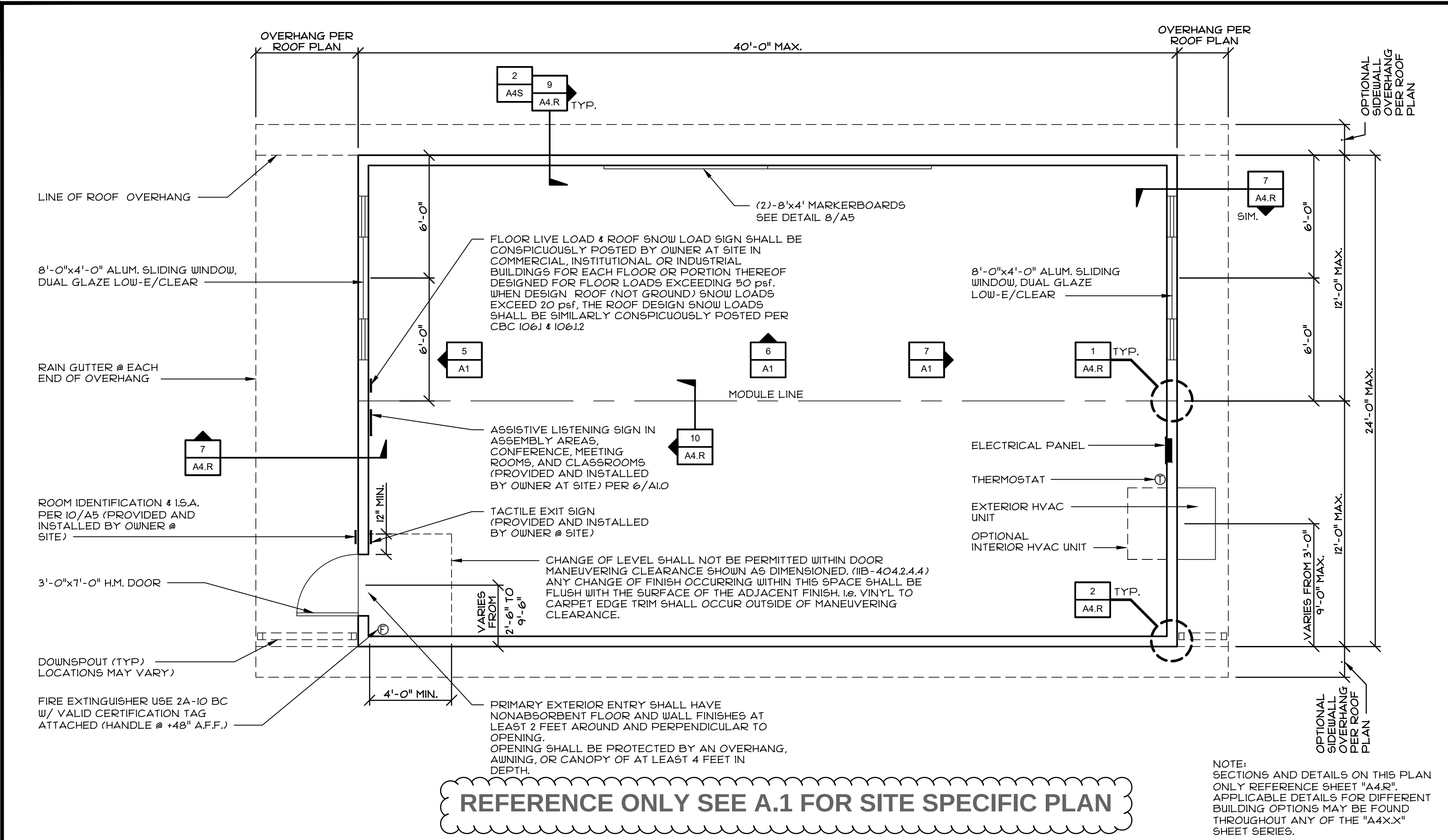


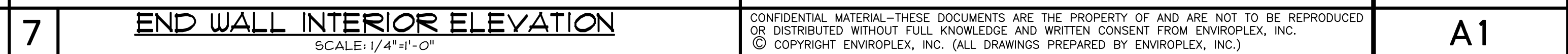
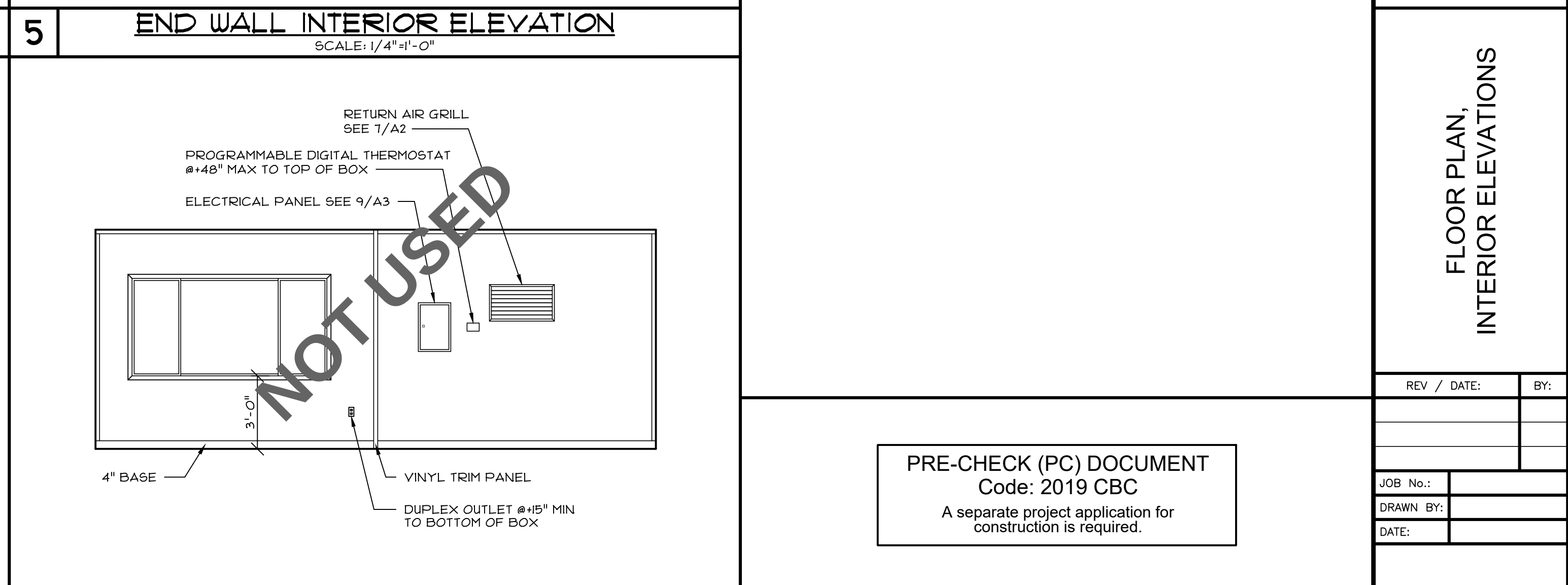
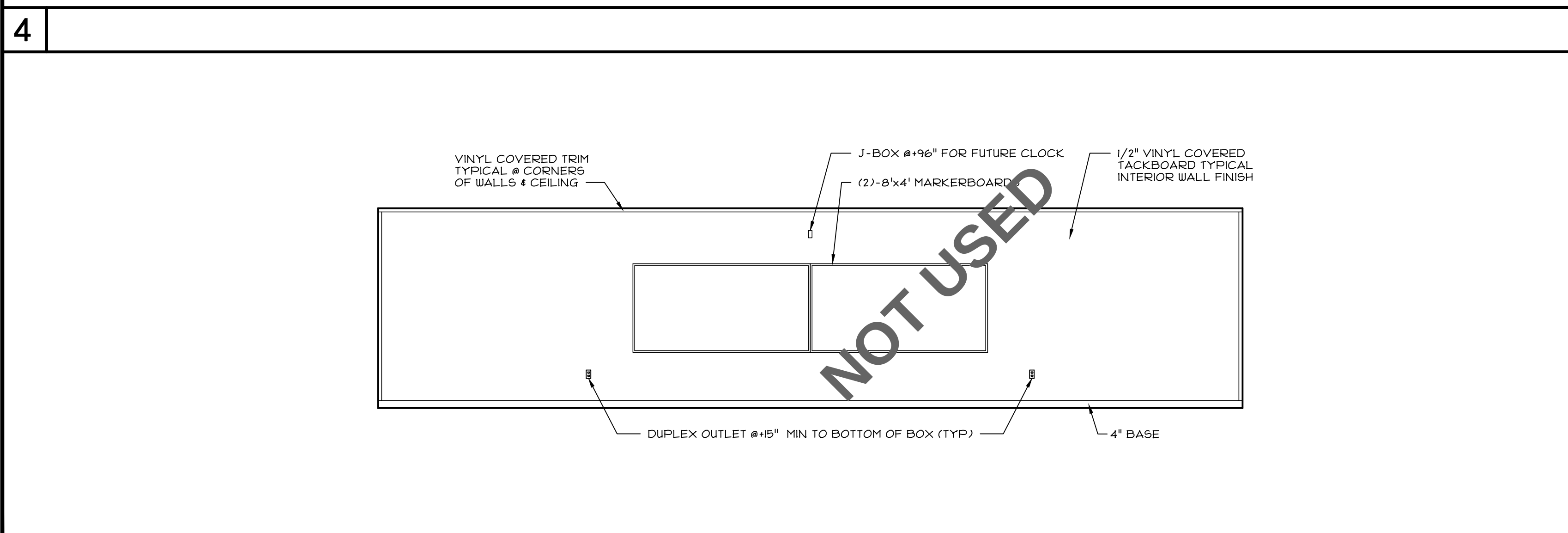
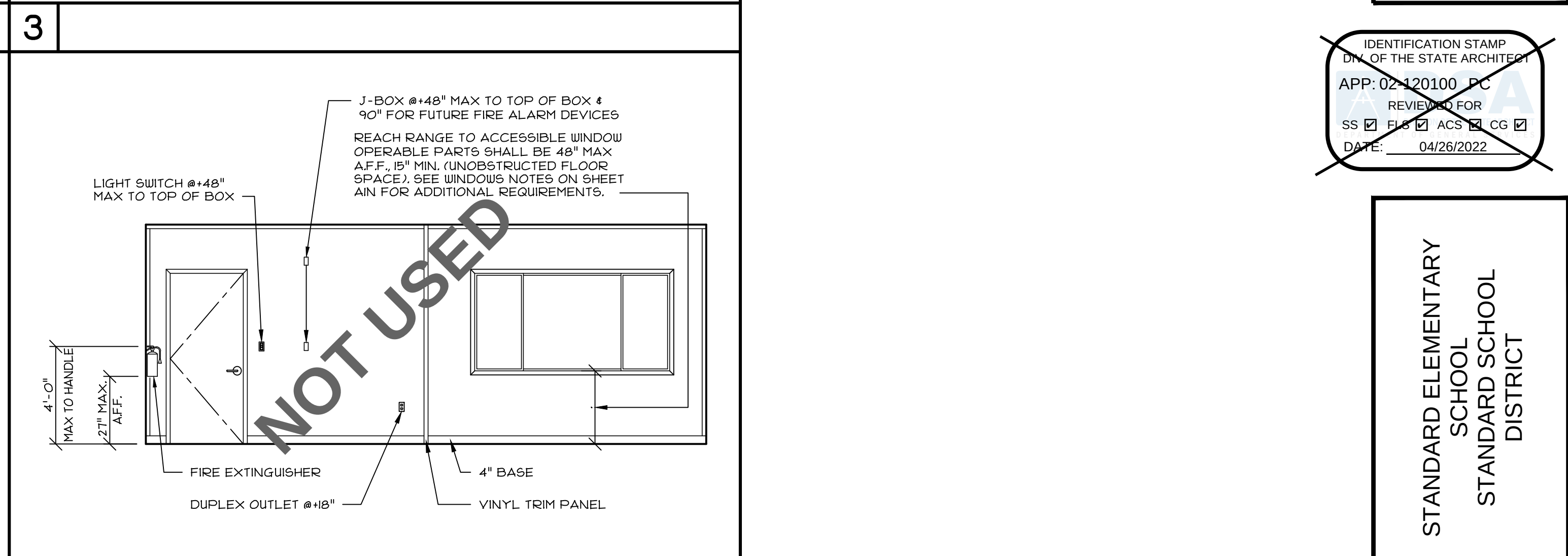
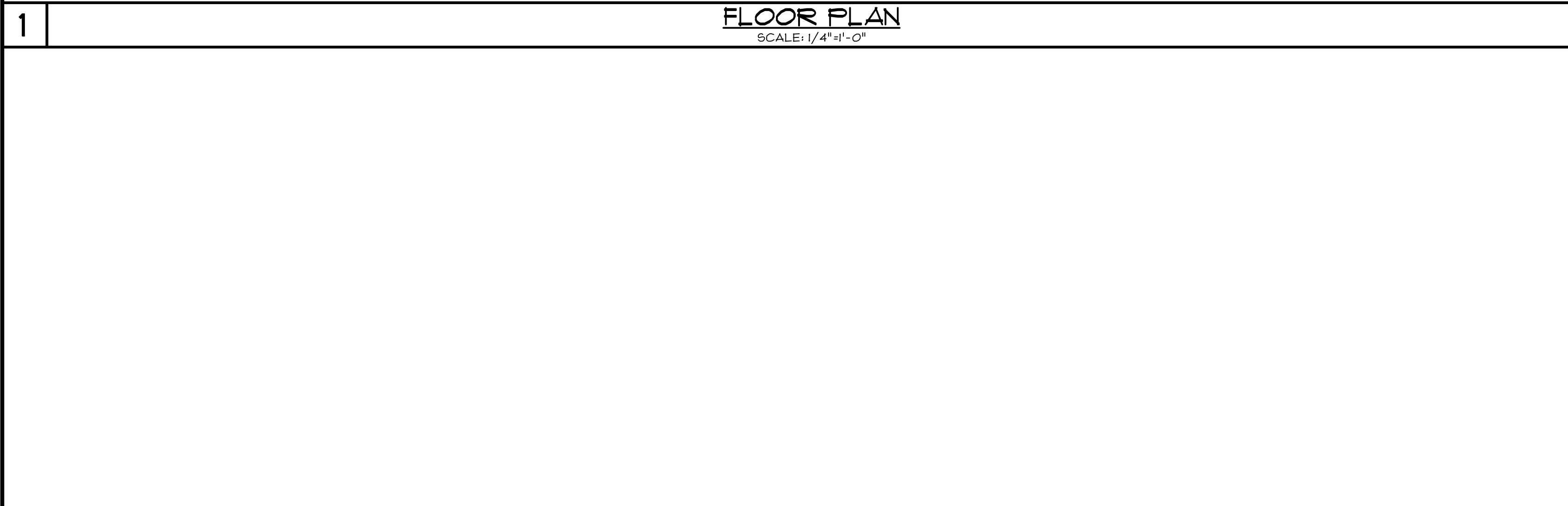


NOTE:
SEE SHEET A1 FOR MATERIAL SPECIFICATIONS,
FENESTRATION SPECIFICATION & NOTES.

09/15/2022
04/29/2022
06/14/2021

REGISTERED PROFESSIONAL ENGINEER
ARCHITECTURE
STATE OF CALIFORNIA
20060
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STOCKTON, CA 95215
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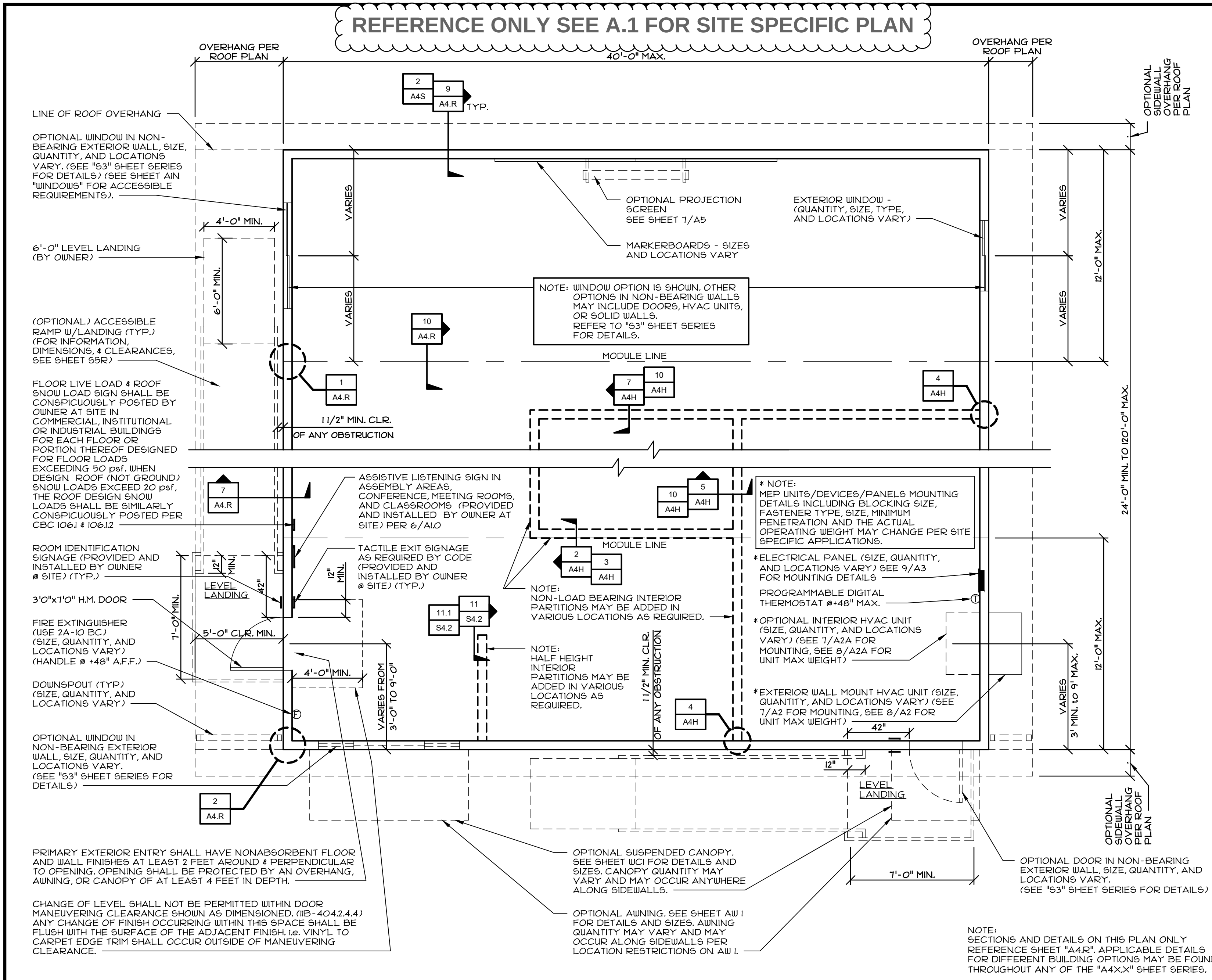
STANDARD ELEMENTARY
SCHOOL
STANDARD SCHOOL
DISTRICT

FLOOR PLAN,
INTERIOR ELEVATIONS

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

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A separate project application for
construction is required.

A1



FLOOR PLAN AS DEPICTED SHALL NOT BE CONSTRUCTED NOR SHALL BE REVIEWED FOR APPROVAL AT OTC APPOINTMENTS.

FLOOR PLAN AS SHOWN INTENDS TO ILLUSTRATE THE ALLOWABLE STRUCTURAL FLEXIBILITY TO MANUFACTURE A VARIETY OF BUILDING SIZES BY CONNECTING MULTIPLE MOMENT FRAME MODULES TOGETHER TO FORM ONE BUILDING.

NOT SHOWN ARE ROOF PLANS, REFLECTED CEILING PLANS, LIGHTING PLANS, ELECTRICAL PLANS, AUTOMATIC FIRE SPRINKLER DESIGN, ETC. A SEPARATE SITE SPECIFIC APPLICATION/REVIEW WILL BE REQUIRED.

DUE TO MOMENT FRAME DESIGN WITH NON-BEARING EXTERIOR AND INTERIOR WALLS; FLOOR PLAN DEPICTS FLEXIBLE LOCATIONS OF DOORS, WINDOWS, WINDOW SIZES, INTERIOR PARTITION PLACEMENTS.

THIS FLOOR PLAN SHALL NOT BE CONSTRUCTED AND IS SUBJECT TO SITE SPECIFIC APPLICATION REVIEW FOR, AND NOT LIMITED TO, ANY/ALL OF THE FOLLOWING:

- INTENDED USE OF EACH ROOM OR SPACE(S).
- FLOOR PLAN INTERIOR PARTITION LAYOUT/CONFIGURATION
- LOCATION OF FIRE EXTINGUISHERS, -MAXIMUM TRAVEL DISTANCES, -LOCATIONS OF DOORS AND EGRESS COMPONENTS.
- COMPLIANCE WITH EXIT AND EXIT ACCESS DOORWAYS AND COMMON PATH OF TRAVEL REQUIREMENTS.
- LOCATIONS OF DRAFTSTOPS AND DRAFTSTOP DETAILS.

IF A WINDOW IN THE NON-BEARING WALL IS TO BE PROVIDED IN THE SITE SPECIFIC PROJECT, THEN NEW ENERGY COMPLIANCE REPORTS WILL BE REQUIRED TO BE SUBMITTED WITH THE SITE SPECIFIC PROJECT PRIOR TO RECEIVING APPROVAL BY DSA.

DOOR HARDWARE: PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER PER CBC 10010.

STATE FUNDS: BUILDING ENTRANCE DOORS AND DOORS TO INDIVIDUAL ROOMS WITH AN OCCUPANT LOAD OF 5 OR MORE, IN BUILDINGS CONSTRUCTED WITH STATE FUNDS, ON NEW OR EXISTING CAMPUSES, SHALL BE EQUIPPED WITH INTERIOR LOCKING DOOR HARDWARE AND MUST COMPLY WITH CBC 10010.

EGRESS LOCATION: WHERE (2) OR MORE EXITS ARE REQUIRED SUCH EXITS SHALL HAVE ADEQUATE SEPARATION PER CBC 10011.

EGRESS ILLUMINATION: WHERE (2) OR MORE EXITS ARE REQUIRED, SUCH EXITS SHALL HAVE INTERIOR AND EXTERIOR LANDINGS ILLUMINATED BY FIXTURES CAPABLE OF AUTOMATIC EMERGENCY POWER OF NOT LESS THAN 90 MINUTES, INCLUDES AISLES, UNENCLOSED STAIRWAYS, CORRIDORS, EXTERIOR EGRESS COMPONENTS AT OTHER THAN LEVEL OF DISCHARGE, LABS, SHOPS, AND WINDOWLESS AREAS WITHOUT STUDENT OCCUPANCY) PER 1008.3.

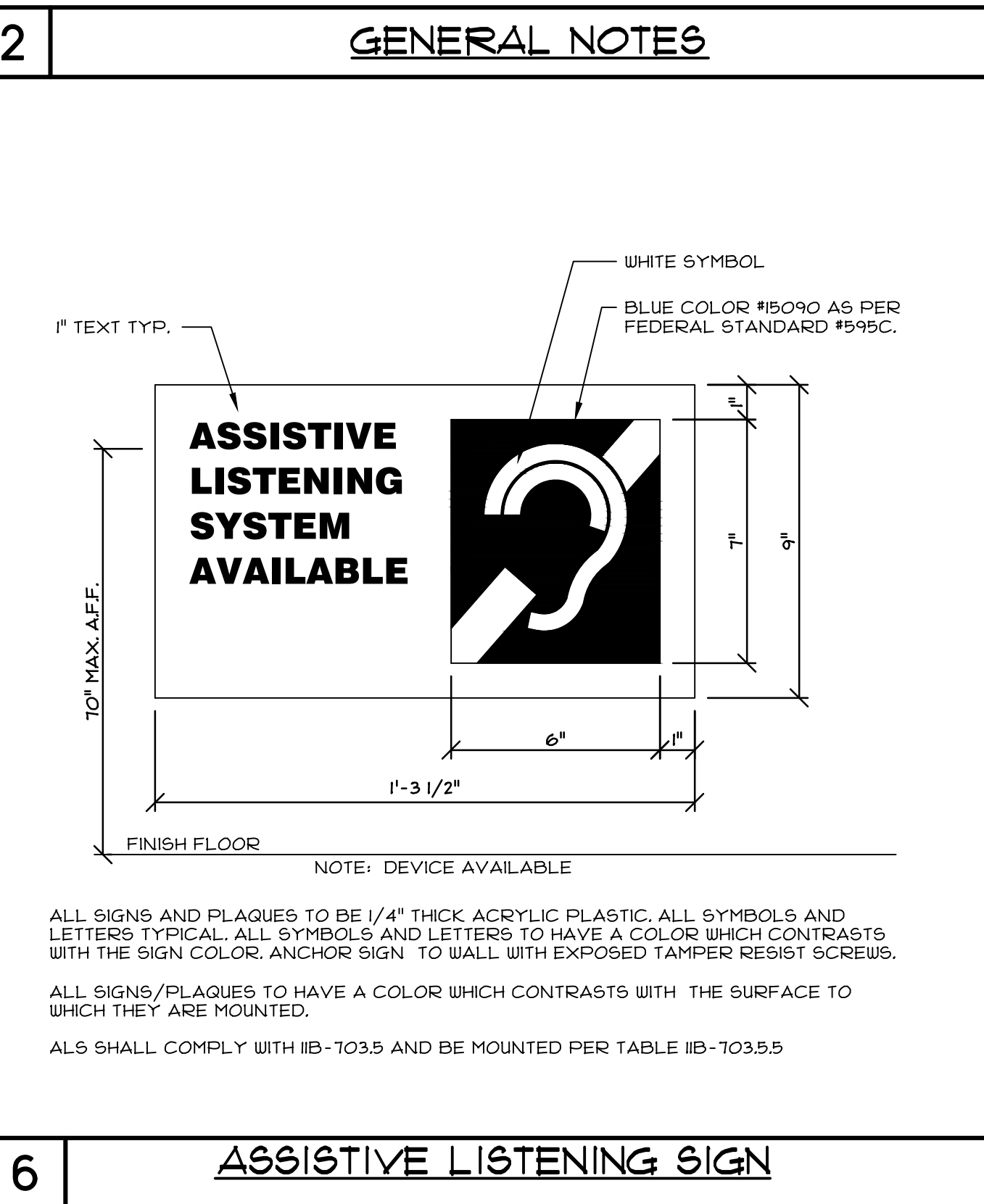
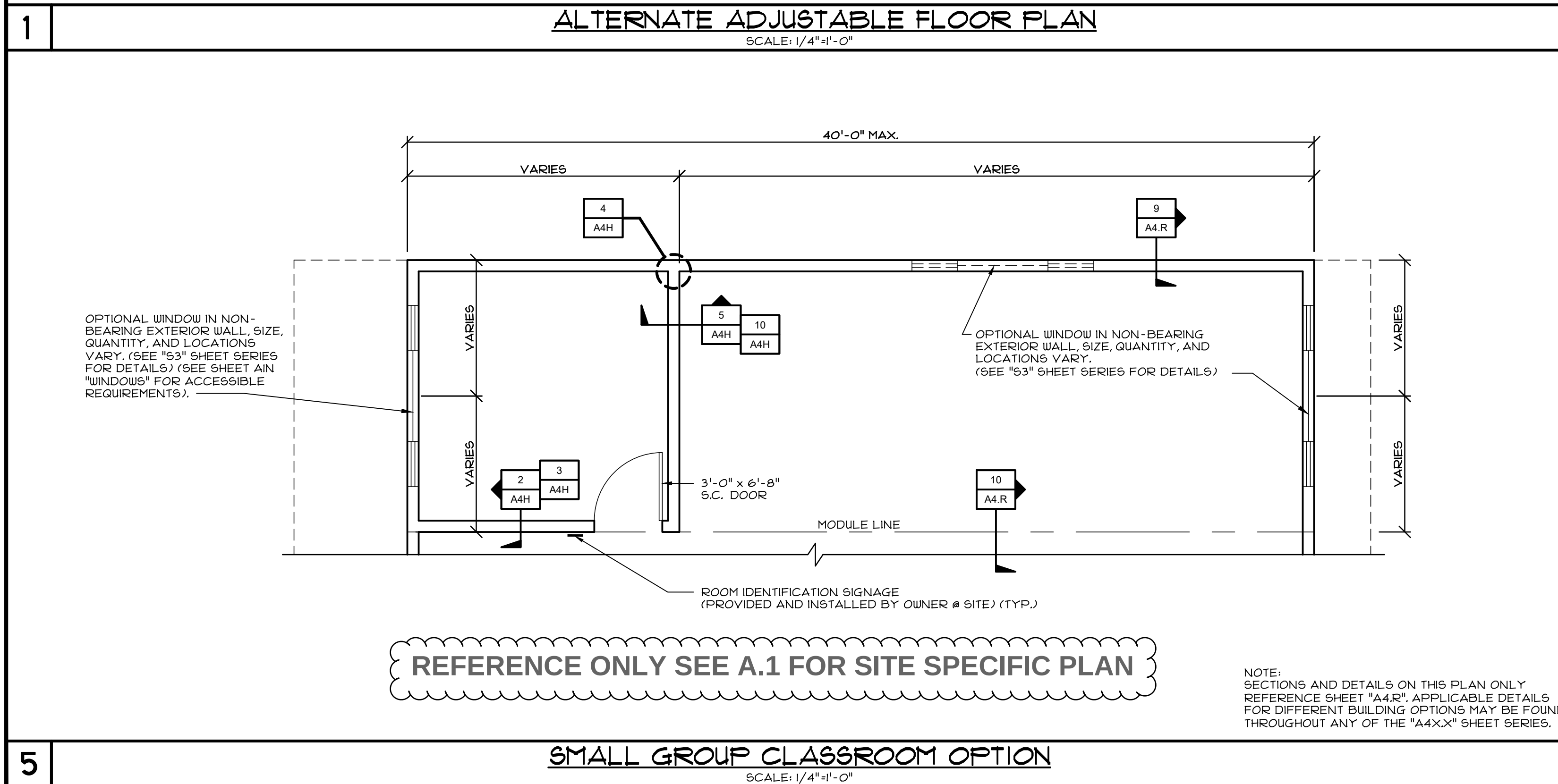
EXIT SIGNS: WHERE REQUIRED, EXITS AND EXIT ACCESS SHALL BE MARKED BY APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL PER CBC 1003.

POSTING OF OCCUPANCY LOADS: EVERY ROOM OR SPACE WHICH IS USED FOR ASSEMBLY, CLASSROOM, DINING, DRINKING, OR SIMILAR PURPOSES, HAVING AN OCCUPANT LOAD OF 50 OR MORE SHALL HAVE THE OCCUPANT LOAD OF A ROOM OR SPACE POSTED PER CBC 1004.9. (OCCUPANT LOAD SIGNAGE SHALL BE PROVIDED BY SCHOOL DISTRICT / OWNER, NOT BY MODULAR MANUFACTURER).

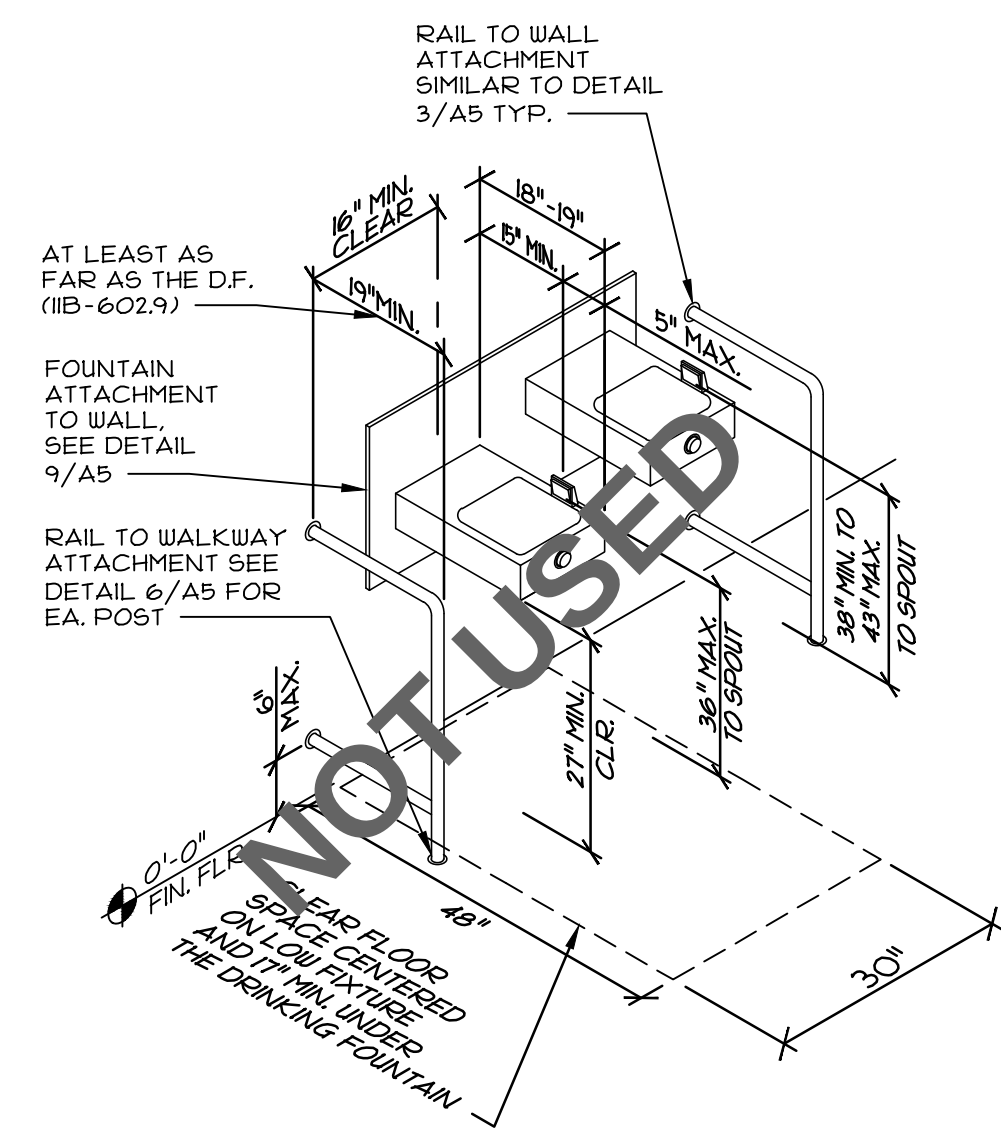
ALTERNATE FLOOR PLAN SHOWN DOES NOT HAVE AN APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM DESIGN IN THIS PC. IF THIS PLAN IS TO BE USED, A SPRINKLER DESIGN SHALL BE PROVIDED FOR DSA REVIEW/APPROVAL DURING A SEPARATE PROJECT SITE SPECIFIC APPLICATION. ROOF PLAN, REFLECTED CEILING PLAN, LIGHTING & ELECTRICAL PLANS, PLUMBING PLANS, ETC. WILL ALSO BE REVIEWED UNDER SEPARATE SITE SPECIFIC APPLICATION.

RAIN WATER LEADERS MINIMUM QUANTITIES		QTY. (MIN.)	
BUILDING TRANSVERSE DIMENSION	BUILDING LONGITUDINAL DIM = 40'-0" MAX.	FRONT OVERHANG	REAR OVERHANG
		1	1
24'	36'	1	1
48'	48'	2	2
60'	60'	3	3
72'	72'	3	3
84'	84'	4	4
96'	96'	4	4
108'	108'	5	5
120'	120'	5	5

RAIN WATER LEADERS MINIMUM QUANTITIES		QTY. (MIN.)	
BUILDING TRANSVERSE DIMENSION	BUILDING LONGITUDINAL DIM = 40'-0" MAX.	FRONT OVERHANG	REAR OVERHANG
		1	1
24'	36'	1	1
48'	48'	2	2
60'	60'	3	3
72'	72'	3	3
84'	84'	4	4
96'	96'	4	4
108'	108'	5	5
120'	120'	5	5



4 DOWNSFOUT QTY. PER BUILDING SIZE		PRE-CHECK (PC) DOCUMENT Code: 2019 CBC A separate project application for construction is required.	
STANDARD ELEMENTARY SCHOOL STANDARD SCHOOL DISTRICT		FLOOR PLAN OPTIONS	
REV / DATE:		BY:	
JOB No.:		DRAWN BY:	
DATE:		DATE:	
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NOTE: DRINKING FOUNTAIN RAILS SHALL BE PROVIDED AND INSTALLED BY OTHERS ON-SITE. RAILS SHALL PROJECT HORIZONTALLY AT LEAST AS FAR AS THE DRINKING FOUNTAIN.

DRINKING FOUNTAIN WING WALLS

BC TABLE 11B-604.9
DIMENSIONS FOR CHILDREN'S USE

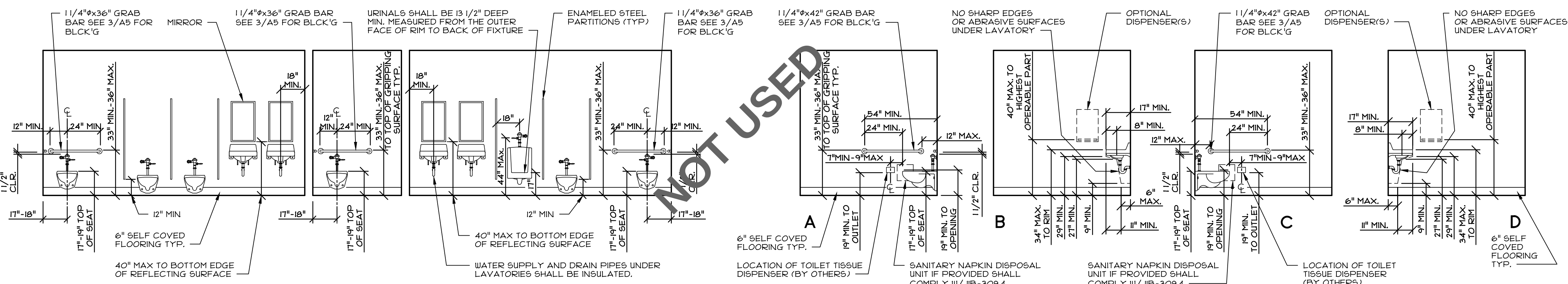
	~~AGES 3 AND 4~~	~~AGES 5 THRU 8~~	~~AGES 9 THRU 12~~
WATER CLOSET CENTERLINE	~~12"~~	~~12" TO 15"~~	~~15" TO 18"~~
TOILET SEAT HEIGHT	~~11" TO 12"~~	~~12" TO 15"~~	~~15" TO 17 1/2"~~
TOP OF GRAB BAR HEIGHT	~~18" TO 26"~~	~~20" TO 25"~~	~~25" TO 27"~~
DISPENSER HEIGHT TO OUTLET	~~14"~~	~~14" TO 17"~~	~~17" TO 19"~~

~~DIMENSIONS FOR ADULT USE~~

WATER CLOSET CENTERLINE	17" to 18"
TOILET SEAT HEIGHT	17" to 19"
GRAB BAR HEIGHT	23" to 36" (TO TOP OF GRIP SURFACE)
DISPENSER HT. TO OUTLET TOILET PAPER & SAN. NAPKIN DISPOSAL	19" to OUTLET (7" to 9" FROM FRONT OF TOILET TO CENTERLINE)

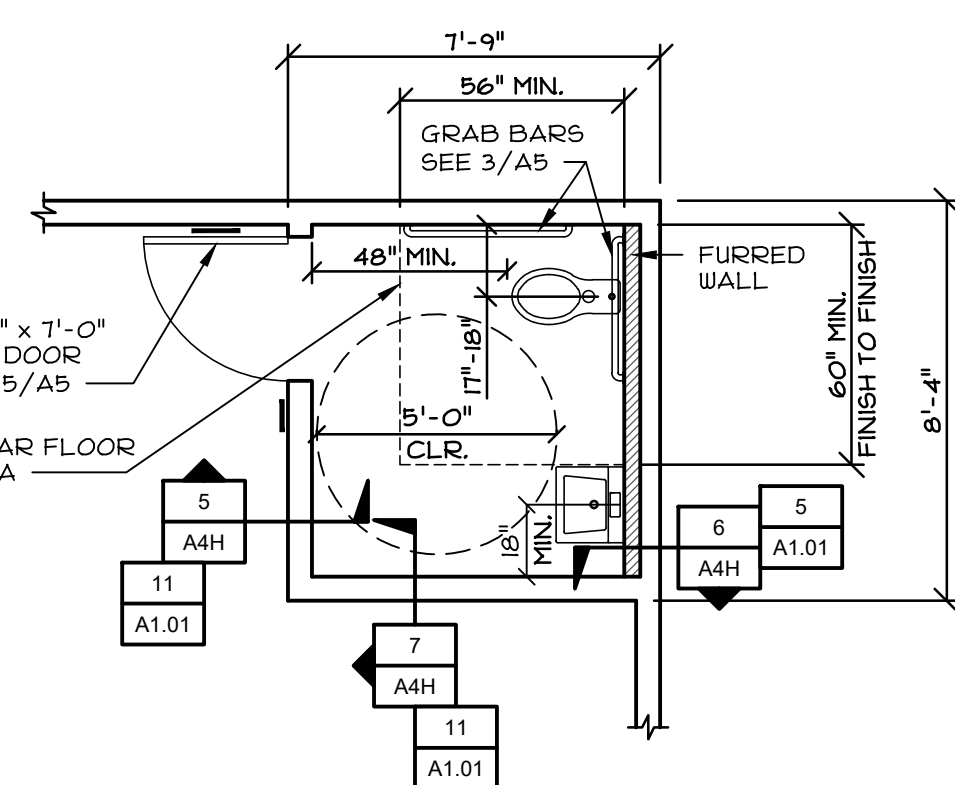
11B-609 GRAB BARS
11B-609.3 SPACING. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2" (38 MM).
THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS
SHALL BE 1 1/2" (38 MM) MIN. THE SPACE BETWEEN THE GRAB BAR & PROJECTING OBJECTS
ABOVE SHALL BE 12 INCHES (305 MM) MINIMUM.

TYPICAL FIXTURE MOUNTING HEIGHTS



TYPICAL TOILET ROOM ELEVATIONS

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



REFERENCE ONLY SEE A.1A FOR SITE SPECIFIC PLAN

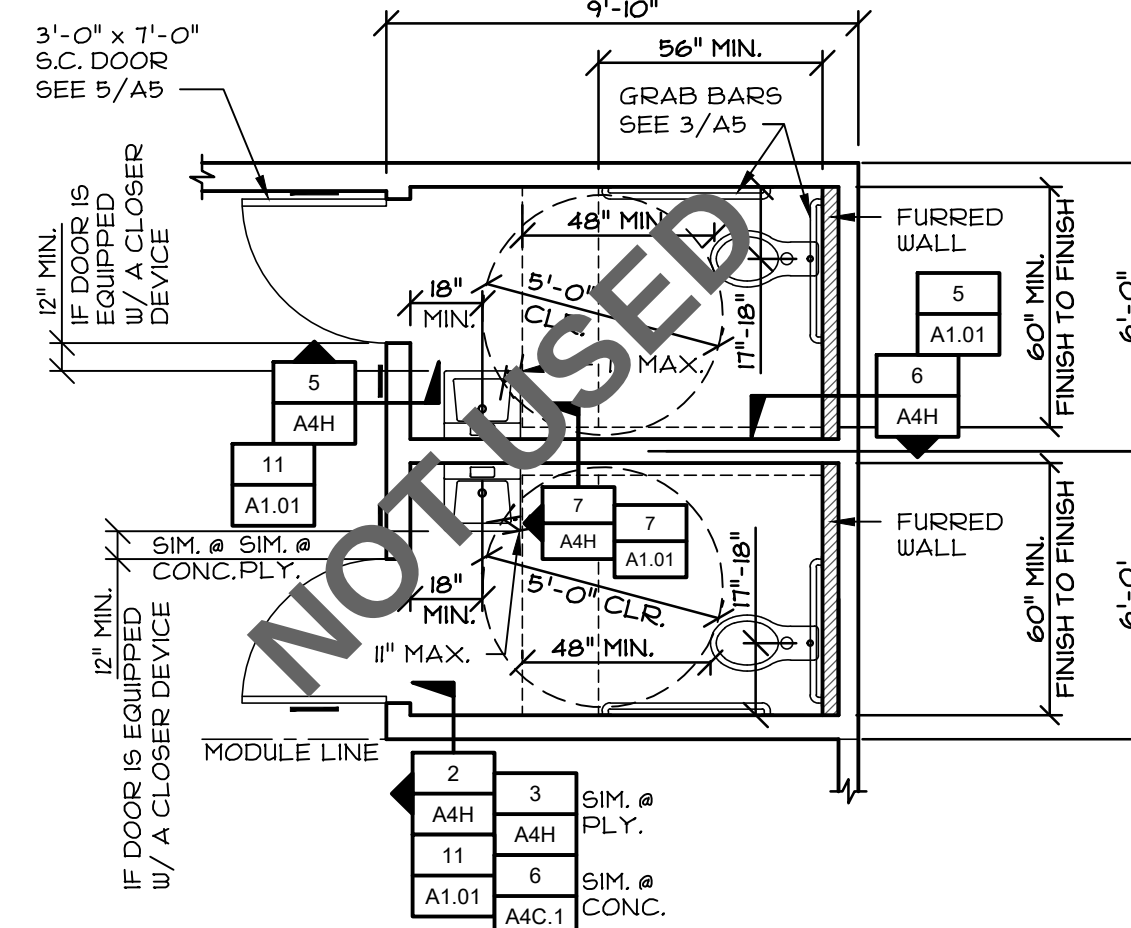
SINGLE TOILET OPTION

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

NOTE:
EXHAUST VENTING IS
REQUIRED, SEE NOTE 8,
DETAIL 8 SHEETS A2, A2A, A2B

NOTE:
INTERIOR WALLS AND CEILING
FINISHES SHALL COMPLY WITH
CBC TABLE 803.11

TYPICAL LAYOUT SHOWN.
ROOM CONFIGURATION,
FIXTURE QUANTITIES AND
ARRANGEMENTS MAY VARY.
ALTERNATE LAYOUTS SHALL
MEET ACCESSIBILITY
REQUIREMENTS.



NOTE:
EXHAUST VENTING IS
REQUIRED, SEE NOTE 8,
DETAIL 8 SHEETS A2, A2A,
A2B

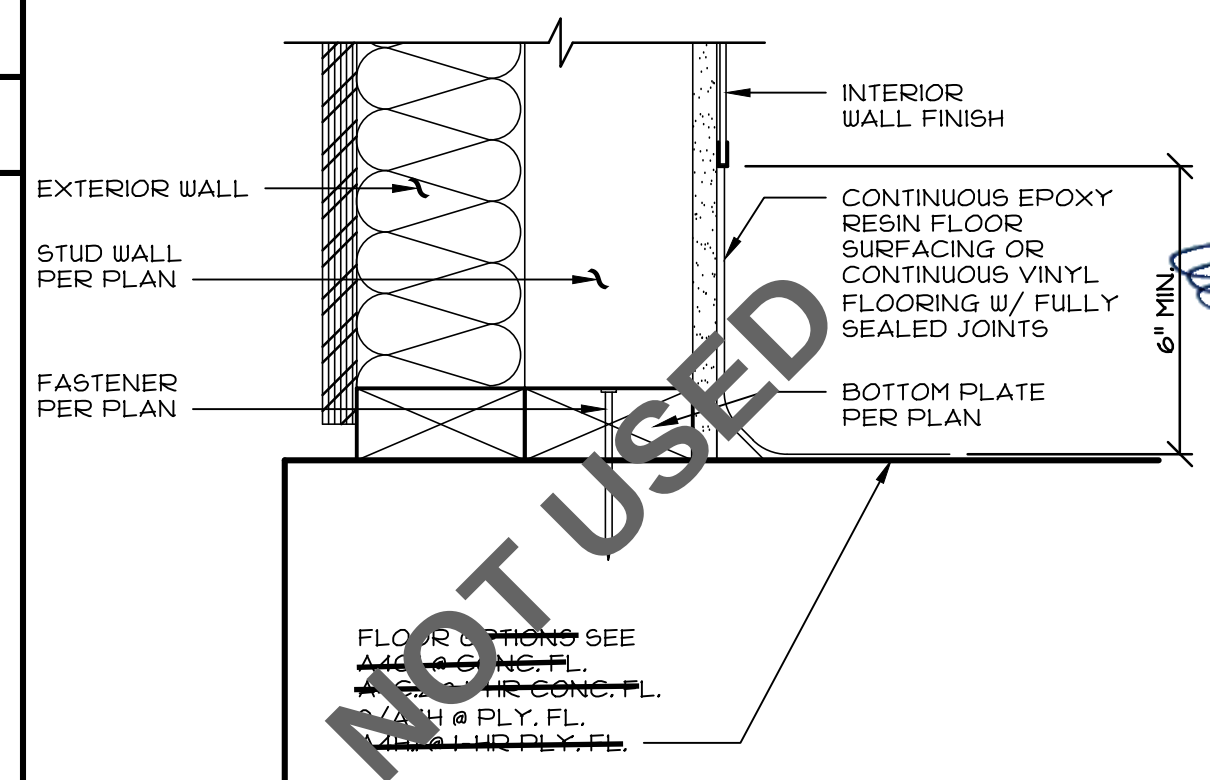
DOUBLE TOILET OPTION

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

NOTES:

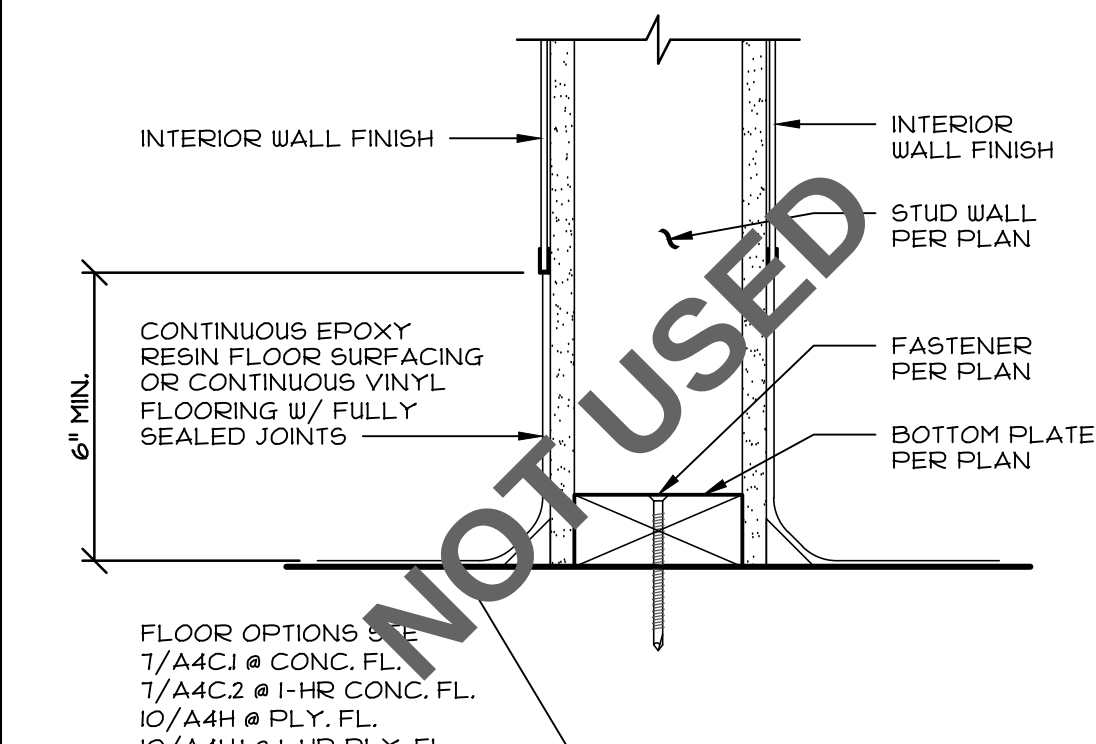
- 1) FOR MATERIAL SPECIFICATIONS & NOTES, SEE SHEET AIN.
- 2) ALL DIMENSIONS SHOWN ON THIS SHEET ARE FOR INTERIOR SPACES AND ARE TO MATERIAL FINISHES.
- 3) ALTERNATE FLOOR PLANS SHOWN DO NOT HAVE AN APPROVED AUTOMATIC FIRE SUPPRESSION SYSTEM DESIGN IN THIS PC IF THIS IS TO BE USED, AND A FIRST SPRINKLER SYSTEM IS REQUIRED, A SPRINKLER DESIGN SHALL BE PROVIDED FOR DSA REVIEW/APPROVAL DURING A SEPARATE PROJECT SITE SPECIFIC APPLICATION. ROOF PLANS, RETAIL SLAB PLANS, LIGHTING & ELECTRICAL PLANS, PLUMBING PLANS, ETC. WILL ALSO BE REVIEWED UNDER SEPARATE SITE SPECIFIC APPLICATION.

SHEET NOTES



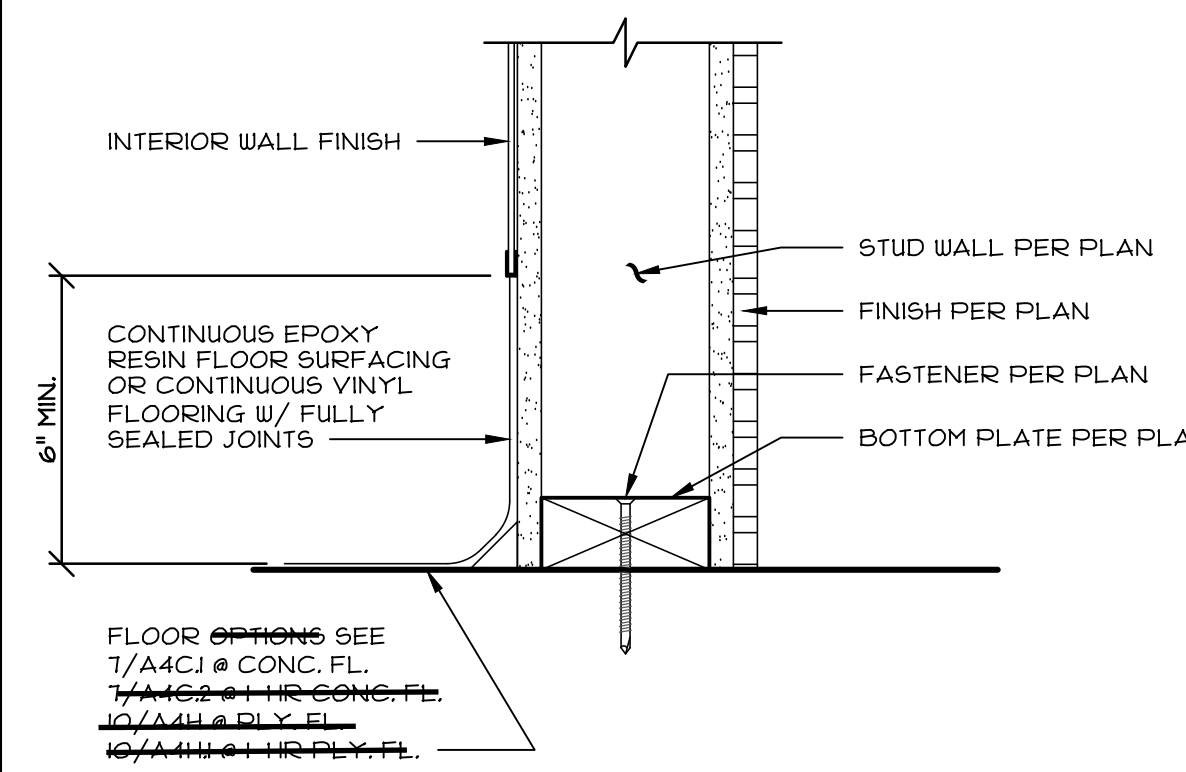
5	RESTRM. BASE @ EXT. FURRED WALL
---	---------------------------------

SCALE: 3"=1'-0"



TYP. 2-SIDE RESTROOM BASE

SCALE: 3"=1'-0"



TYP. 1-SIDE RESTROOM BASE

SCALE: 3"=1'-0"

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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FINISHES:

1. CARPETS -
SHALL BE DIRECT GLUE DOWN TYPE WITH A DENSITY OF 4600 MIN. PILE YARN,
BRANDED NYLON, INSTALLED WITH MINIMAL CROSS SEAMS.
CARPET SHALL COMPLY WITH 11B-302.2 AND SHALL HAVE LEVEL LOOP, TEXTURED
LOOP, LEVEL CUT/UNCUT PILE TEXTURE. (NOTE ANY OF THE ABOVE TYPE OFFERED)
NOTE: MAXIMUM PILE HEIGHT 1/2" TRIM ON ENTIRE LENGTH OF EXPOSED EDGE WHICH
COMPLIES WITH 11B-303.
COLOR TO BE SELECTED BY OWNER.
CARPET SYSTEMS SHALL COMPLY WITH 2019 CAL GREEN BUILDING STANDARDS CODE,
SEC 5.504.4.4
CARPET CUSHION SHALL COMPLY WITH 2019 CAL GREEN BUILDING STANDARDS CODE,
SEC 5.504.4.4.1
CARPET ADHESIVES SHALL COMPLY WITH 2019 CAL GREEN BUILDING STANDARDS
CODE, SEC 5.504.4.4.2
FLOOR FINISH COVERING SHALL OF NOT LESS THAN CLASS II, CBC 804.2

- 1.1 RESILIENT BASE COVE -
BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH, MOULDED TOP SET COVE.
SOLID COLORS AS MANUFACTURED BY "BURKE RUBBER CO." OR EQUAL.
ADHESIVE SHALL COMPLY WITH 2019 CAL GREEN BUILDING STANDARDS CODE,
SEC 5.504.4.1
BASE COVE SHALL OF NOT LESS THAN CLASS II, CBC 804.2 & 806.8

2. COMMERCIAL SHEET VINYL / RESILIENT FLOORING -
ARMSTRONG CORON OR EQUAL.
FLOORING SHALL BE SLIP RESISTANT (0.5 MIN. COEFFICIENT OF FRICTION
PER ASTM D2047)
80% OF NON-ABSORBENT FLOORING SHALL COMPLY WITH 2019 CAL GREEN
STANDARDS CODE, SECTION 5.504.4.5
APPLICATION AND MAINTENANCE OF POLISHED-COATED FLOOR
SURFACES IS BY OWNER.

- WALL BASE - 6" SELF COVED SHEET VINYL (SAME AS NOTE 1.1 ABOVE)

3. 1/2" VINYL WRAPPED TACKBOARD OVER 1/2" GYPSUM WALL BOARD.
TACKBOARD FLAME SPREAD 65, SMOKE DENSITY 135.

4. FIBERGLASS REINFORCED POLYETHYLENE (FRP) PANELS OVER 1/2"
GYPSUM WALL BOARD (OVER WATER RESISTANT GWB AT PLUMBING AND WET WALLS ONLY)
FRP FLAME SPREAD 25, SMOKE DENSITY 180.

5. ADHESIVES SHALL BE WATER BASE, SOLVENT BASE NOT ACCEPTABLE. FURNISH
AND APPLY PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
ADHESIVES SHALL COMPLY WITH 2019 CGBSC, SECTION 5.504.4.1

6. SEALANTS -
ROOF & MODULE LINE - POLYURETHANE
SIDING & TRIM - ACRYLIC LATEX
SEALANTS SHALL COMPLY WITH 2019 CGBSC, SECTION 5.504.4.1

7. PAINT -
EXTERIOR WOOD
PRIMER ACRYLIC UNDERCOAT
FINISH ACRYLIC LATEX

- ALL STRUCTURAL AND NON-GALVANIZED LIGHT GAUGE STEEL
(EXPOSED AND NON-EXPOSED)
PRIMER RED OXIDE ALKID RUST INHIBITIVE COATING
FINISH ACRYLIC LATEX

- PAINTS AND COATINGS SHALL COMPLY WITH 2019 CGBSC, SECTION 5.504.4.3

8. EXTERIOR SIDING -
5% GROOVED MEDIUM DENSITY OVERLAY (M.D.O.), PLYWOOD, LAP SIDING, OR
STUCCO PATTERN FACED EXTERIOR HARDBOARD SIDING. (MINIMUM NET
THICKNESS 3/8")

- COMPOSITE WOOD PRODUCTS SHALL COMPLY WITH 2019 CAL GREEN BUILDING
STANDARDS CODE, SECTION 5.504.4.5

9. JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE
SEALED TO LIMIT INFILTRATION AND EXFILTRATION.
SEALANT PAINTED TO MATCH FINISHES.

10. ENVIRONMENTAL QUALITY:
ALL ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, CARPET SYSTEMS, CARPET CUSHIONS,
COMPOSITE WOOD PRODUCTS, AND RESILIENT FLOORING SYSTEMS SHALL COMPLY WITH 2019 CAL
GREEN BUILDING STANDARDS CODE, REFERENCE TABLES 5.504.4.1, 5.504.4.2, 5.504.4.3, 5.504.4.5, AND
5.504.4.6.

DOORS:

1. HOLLOW METAL DOORS AND FRAMES- SIZES NOTED ON PLAN, 1 3/4" THICK 18 GA.
FULL FLUSH DOOR IN 16 GA. METAL FRAME
EXIT DOOR SHALL BE OPENABLE FROM THE INTERIOR WITHOUT A KEY OR SPECIAL
KNOWLEDGE OR EFFORT.

2. CLOSERS FOR INTERIOR AND EXTERIOR DOORS SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF
5 LBS. MAX. CLOSER SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME
REQUIRED TO MOVE THE DOOR TO A POSITION 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

3. DEADBOLTS NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT USING LEVER HANDLE.

4. DOOR HANDLES & PULLS SHALL BE PLACED ON BOTH SIDES, LATCHES, LOCKS AND OTHER OPERATING
DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT
PINCHING, OR TWISTING OF THE WRIST TO OPERATE, SHALL BE 5 LBS. MAX. TO ACTIVATE OPERABLE PARTS,
AND SHALL BE 34" MINIMUM AND 44 INCHES MAXIMUM ABOVE FINISHED FLOOR.

5. DOOR SWINGS CAN BE RIGHT OR LEFT HAND HINGE.

6. HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44" ABOVE FINISHED FLOOR. ALL
DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANT LOAD OF 5 OR MORE
PERSONS, SHALL BE EQUIPPED WITH "AB211" COMPLIANT HARDWARE.
COMPLIANT WITH CBC 1010.1.11.

7. CLASSROOM EXTERIOR DOOR HARDWARE:
LOCKSET (LEVER MODEL) SCHLAGE N507PD RHO (OR EQUAL)
(TYP. UNLESS OTHERWISE NOTED)
LOCKSET (PANIC DEVICE) VON DUPRIN C809L (OR EQUAL)
(ONLY WHERE SPECIFIED ON PLANS)

- EXTERIOR HINGES: HAGER BB1270 N.R.P. 4-1/2" x 4-1/2" OR EQUAL
INTERIOR HINGES: HAGER BB1270 N.R.P. 4-1/2" x 4-1/2" OR EQUAL
CLOSER: NORTON 8501BF OR EQUAL
THRESHOLD: PEMKO 271A OR EQUAL
DOOR BOTTOM: PEMKO 296AV OR EQUAL
WEATHERSTRIP: PEMKO 296AV OR EQUAL

Door hardware:
Panic hardware is required to be installed when the configuration of any room provides an occupant load of 50 or greater per CBC 1010.1.10.

State funds:
Building entrance doors and doors to individual rooms with an occupant load of 5 or more, in buildings constructed with state funds, on
new or existing campuses, shall be equipped with interior locking door hardware and must comply with CBC 1010.1.11.

Egress location:
Where (2) or more exits are required such exits shall have adequate separation per CBC 1007.1.1.

Egress illumination:
Where (2) or more exits are required, such exits shall have interior and exterior landings illuminated by fixtures capable of automatic
emergency power of not less than 90 minutes, (includes aisles, unenclosed stairways, corridors, exterior egress components at other
than level of discharge, labs, shops, and windowless areas without student occupancy) per 1008.3.

Exit Signs:
Where required, exits and exit access shall be marked by approved exit sign readily visible from any direction of egress travel per
CBC 1013.

Posting Of Occupancy Loads:
Every room or space which is used for assembly, classroom, dining, drinking, or similar purposes having an occupant load of 50 or
more shall have the occupant load of a room or space posted, per CBC 1004.6.
(Occupant load signage shall be provided by school district owner, not by modular manufacturer).

8. RESTROOM EXTERIOR DOOR HARDWARE:
LOCKSET: SCHLAGE N507PD RHO OR EQUAL
HINGES: HAGER BB1270 N.R.P. 4-1/2" x 4-1/2" OR EQUAL
CLOSER: NORTON 8501BF OR EQUAL
THRESHOLD: PEMKO 271A OR EQUAL
DOOR BOTTOM: PEMKO 296AV OR EQUAL
WEATHERSTRIP: PEMKO 296AV OR EQUAL

WINDOWS & SKYLIGHTS:

FENESTRATION SPECIFICATION												
FENEST. ASSEMBLY NAME	OPERABLE	WIDTH & HEIGHT	FRAME MATERIAL	MAXIMUM U-FACTOR	REQUIRED SHGC	MINIMUM VT	NFRC RATED	NFRC DISCREETORY REF No.	LOW-E	QTY. OF PANELS	GLASS SPEC.	TEMPERED
LOW E INTERNATIONAL	PER PLAN	PER PLAN	ALUM.	0.52	0.34	0.59	YES	INT-A-13-002 11-00017	YES	2	CLR.	YES
SOLATUBE 330 D8-C SINGLE DOME NATURAL EFFECTS LENS WITH THERMAL INSULATION PANEL	NO	27" DIA.	PLASTIC	0.18	0.33	0.38	YES	STU-K-3-0002-00001	N/A	N/A	CLR.	YES

- NOTE:
1. TEMPORARY NFRC LABELS SHALL STAY ON FENESTRATION UNTIL VERIFIED BY
THE IN-PLANT INSPECTOR TO MATCH THE FENESTRATION SPECIFICATION TABLE.
2. ANY FENESTRATION SUBSTITUTIONS MADE TO THE APPROVED PC MUST BE EQUAL OR BETTER THAN THE FENESTRATION ASSEMBLIES
SHOWN IN THIS SCHEDULE.

1. 11B-223.1 GENERAL, WHERE GLAZED OPENINGS ARE PROVIDED IN ACCESSIBLE ROOMS OR SPACES FOR OPERATION BY
OCCUPANTS, AT LEAST ONE OPENING SHALL COMPLY WITH SECTION 11B-309. EACH GLAZED OPENING REQUIRED BY AN
ADMINISTRATIVE AUTHORITY TO BE OPERABLE SHALL COMPLY WITH SECTION 11B-309.

11B-309 OPERABLE PARTS

- 11B-309.1 GENERAL, OPERABLE PARTS SHALL COMPLY WITH SECTION 11B-309.

- 11B-309.2 CLEAR FLOOR SPACE, A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH SECTION 11B-305, SHALL BE
PROVIDED.

- 11B-309.3 HEIGHT, OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE REACH RANGES SPECIFIED IN SECTION
11B-308.

- 11B-309.4 OPERATION, OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT
GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5
POUNDS (22 N) MAXIMUM.

11B-305 CLEAR FLOOR OR GROUND SPACE

- 11B-305.1 GENERAL, CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH SECTION 11B-305.

- 11B-305.2 CLEAR FLOOR SPACE, FLOOR OR GROUND SURFACES OF CLEAR FLOOR OR GROUND SPACE SHALL COMPLY
WITH SECTION 11B-305. CHANGES IN LEVEL ARE NOT PERMITTED.

EXCEPTION, SLOPED NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

- 11B-305.3 SIZE, THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES (762 mm) MINIMUM BY 48 INCHES
(1219 mm) MINIMUM.

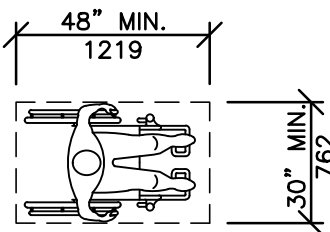


FIGURE 11B-305.3
CLEAR FLOOR OR GROUND SPACE

- 11B-305.4 KNEE AND TOE CLEARANCE, UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE
PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 11B-306.

- 11B-305.5 POSITION, UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR
EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT.

11B-306.3 SIDE REACH.

- 11B-306.3.1 UNOBSTRUCTED, WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN
ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES (1219 mm) MAXIMUM
AND THE LOW SIDE REACH SHALL BE 15 INCHES (381 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

PLUMBING:

1. PLUMBING FIXTURE SCHEDULE:

WATER CLOSET (WALL MOUNT): KOHLER "KINGSTON" (1.28 G.P.F.) K-4325 OR EQUAL
W/ SLOAN ROYAL 111-1.28 FLUSH VALVE (1.28 G.P.F.) OR EQ.

WATER CLOSET (FLOOR MOUNT): KOHLER "HIGHCLIFF ULTRA" (1.28 G.P.F.) K-96058-SBL OR EQUAL
W/ SLOAN ROYAL 111-1.28 FLUSH VALVE (1.28 G.P.F.) OR EQ.

SEAT: BEMIS 1955-SSC (S.F.L.C.) OR EQUAL

URINALS: KOHLER "DEXTER" K-5452-ET (0.125 G.P.F.) OR EQUAL
W/ SLOAN MODEL 186-A 1.28 FLUSH VALVE (0.125 G.P.F.) OR EQ.

LAVATORIES: KOHLER "KINGSTON" K-2005 20" x 18" OR EQUAL

FAUCET: T & S BRASS, B-2711-F05 (0.5 GPM) OR EQUAL

OPTIONAL WATER HEATER: "AO SMITH", PEC-30, 30 GAL. ELECTRIC, 15,359 INPUT RATE, (OR EQUAL) EXPOSED HOT
WATER PIPES SHALL BE INSULATED, 1" THICK INSULATION FOR PIPE 1" DIA OR LESS.
1 1/2" THICK INSULATION FOR PIPE GREATER THAN 1" DIA.

COLD WATER PIPING: TYPE L COPPER

DRAIN, WASTE & VENT: ABS AND PVC PIPES, STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO
EARTHQUAKE MOTION PER TITLE 24, PART 5, CALIFORNIA CODE OF REGULATIONS,
CHAPTER 4, SEC. 401 (A)

2. ALL PLUMBING FIXTURES AND ACCESSORIES TO BE INSTALLED IN ACCORDANCE
WITH ACCESSIBILITY REQUIREMENTS. (PER SECTION C.B.C. 11B DIVISION 6)
FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE BY ONE
HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.
LEVER OPERATED, PUSH TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS
ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED
IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

3. ALL TOILETS, FLOOR MOUNTED, OR WALL MOUNTED W/HAND OPERATED FLUSH VALVE
LOCATED 44 INCHES MAX. ABOVE FLOOR. WHEELCHAIR ACCESSIBLE TOILETS SHALL HAVE
THE FLUSH VALVE ACTIVATOR ON THE OPEN SIDE.

4. RESTROOM PRIVACY PARTITIONS:
DOORS HANDLES FOR ENAMELED STEEL PARTITIONS SHALL BE PLACED ON BOTH SIDES NEAR THE LATCH;
SHALL PROVIDE A CLEAR WIDTH OF 34" FOR WHEELCHAIR ACCESSIBLE STALLS AND 24" WIDE FOR
STANDARD STALLS. DOORS FOR ACCESSIBLE TOILETS SHALL BE SELF-CLOSING, LATCHES, LOCKS AND
OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE
SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE, SHALL
BE 5 LBS. MAX. TO ACTIVATE OPERABLE PARTS, AND SHALL BE 34" MINIMUM AND 44 INCHES MAXIMUM
ABOVE FINISHED FLOOR. TOILET PARTITIONS MATERIALS PER 2019 CBC 303.1.1 - MIN. CLASS "C" RATING)

5. RESTROOM DOOR SIGNAGE:
THE DOOR LEADING INTO BOYS FACILITY SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE
1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD.
THE DOOR LEADING INTO GIRLS FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER.
UNISEX FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER WITH A 1/4" THICK TRIANGLE
WITH THE VERTEX POINTING UPWARD SUPERIMPOSED ON THE CIRCLE & WITHIN THE 12" DIAMETER. MAXIMUM
1/4" FROM THE CIRCLE EDGES. THE GEOMETRIC SYMBOLS SHALL BE MOUNTED ON THE DOOR AT A HEIGHT PER
DETAIL S SHEET AS AND THEIR COLOR AND CONTRAST SHALL MEET THE IDENTIFICATION SIGNAGE FINISH
REQUIREMENTS OF DETAIL 10 SHEET AS

ROOFING

1. METAL ROOF:
PREFINISHED, UNPENETRATED INTERLOCKING, 26 GAUGE MIN. GALVANIZED STEEL ROOF PANELS,
MECH. CRIMPED STANDING SEAMS OVER SEAL-TITE #15 UNDERLAYMENT
OVER 5/8" APA RATED, EXTERIOR GRADE PLYWOOD, OR ORIENTED STRAND BOARD
(CLASS "B" FIRE RATING), REFERENCE 2/41R FOR ATTACHMENT.
AGED SOLAR REFLECTANCE: 0.08 THERMAL EMITTANCE: 0.75

INSULATION

1. ALL INSULATION (INCLUDING PIPE INSULATION) SHALL COMPLY WITH CALIFORNIA
QUALITY STANDARDS, CALIFORNIA BUILDING CODE SEC. 720 & 2603 FOR FOAM.
MAX FLAME SPREAD: 25, MAX SMOKE DENSITY: 450

ROOF:
SEE 1/AGB FOR TYPICAL ROOF ENVELOPE ASSEMBLY.

WALLS:
SEE 2/AGB FOR TYPICAL EXTERIOR WALL ENVELOPE ASSEMBLY.

FLOOR:
SEE 3/AGB FOR TYPICAL FLOOR ENVELOPE ASSEMBLY.

IDENTIFICATION

1. NOTE: THE MANUFACTURER SHALL PLACE TWO PERMANENT METAL IDENTIFICATION TAG
ON EACH MODULAR BUILDING MECHANICALLY FASTENED TO THE END WALL. THE TAG
SHALL SHOW D.S.A. APPLICATION NUMBER, MANUFACTURER'S SERIAL NUMBER, PLANT
INSPECTOR'S IDENTIFICATION MARK AND DESIGN FLOOR AND ROOF LIVE LOAD.
PLACE ONE TAG ON EXTERIOR AND, ONE ON THE INTERIOR ABOVE CEILING LINE.

LUMBER NOTES

1. SAWN LUMBER GRADED PER WEST COAST LUMBER INSPECTION BUREAU, RULE 17.
2. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR #2,
ALL BLOCKING SHALL BE DOUGLAS FIR #3,
3. LAG SCREWS AND SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
4. LUMBER MAY BE REJECTED FOR BOXED HEART, EXCESSIVE WARP, TWIST, SPLIT,
CHECK, FUNGUS, MOLD, OR ANY REASON PROVIDED BY GRADING RULES.
5. ALL FRAMING LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION
AND SHALL BE AT 19% MAXIMUM MOISTURE CONTENT (VERIFIED BY THE IN-PLANT INSPECTOR)
BEFORE BEING ENCLOSED BY INSULATION, GYPSUM BOARD, OR OTHER SURROUNDING MATERIALS.

BUILDING AND WALL PANELS:

1. ALL MODULES MAY BE BUILT OPPOSITE HAND FROM THE WAY THEY ARE SHOWN
2. SIDEWALL & ENDWALL ELEVATIONS DEPICT NON-BEARING
WALLS NOT REQUIRED FOR THE RESISTANCE OF VERTICAL OR LATERAL LOADS.

WILDLAND URBAN INTERFACE:

SPECIFIC REQUIREMENTS FOR EXTERIOR MATERIALS FOR BUILDINGS PLACED IN FIRE
HAZARD SEVERITY ZONES. (CBC CHAPTER 7A)
ROOF COVERING: (C.B.C. SECTION 705A)
26 GA. GALV. STEEL (NON-COMBUSTIBLE) INTERLOCKED STANDING SEAM
ROOF PANELS W/ NO SPACE BETWEEN ROOF PANELS AND ROOF DECKING.
STANDING SEAM ROOF OVER ONE LAYER #15 ROOF FELT. (CBC 705A.2)
ROOF FIRE CLASS SHALL COMPLY WITH CBC 1505.1.1 THROUGH 1505.1.4 FOR
SITE SPECIFIC W.U.I. REQUIREMENTS.

ROOF GUTTERS: (C.B.C. SECTION 705A.4)
SHALL BE SCREENED WITH A CORROSION-RESISTANT NONCOMBUSTIBLE
WIRE MESH WITH 1/4" (6mm) OPENINGS OR EQUAL.

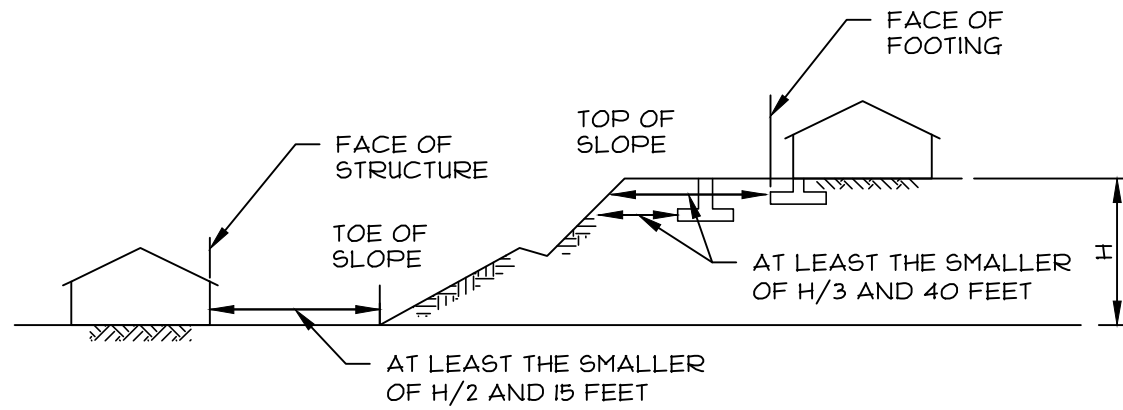
SOFFITS: (C.B.C. SECTION 707A.5)
NON COMBUSTIBLE CEMENT FIBER BOARD ("LP SMARTSIDE" OR EQUAL.)

EXTERIOR WALL FINISH: (C.B.C. SECTION 707A.3)
NON COMBUSTIBLE CEMENT FIBER SIDING ("LP SMARTSIDE" OR EQUAL.)

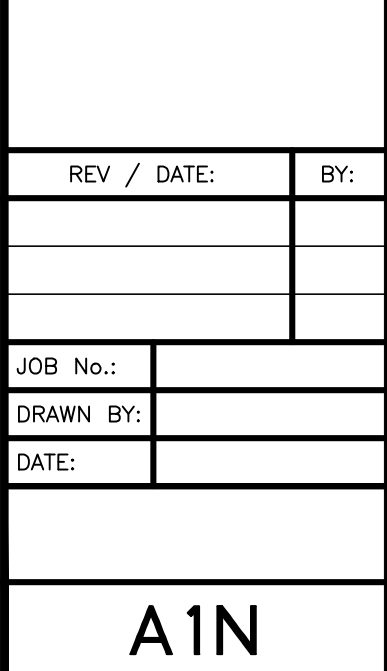
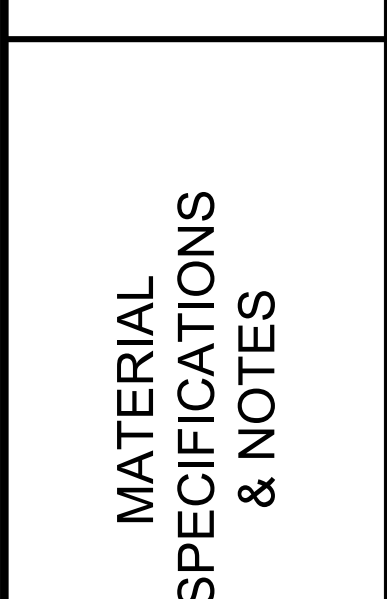
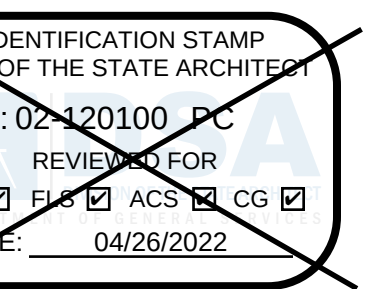
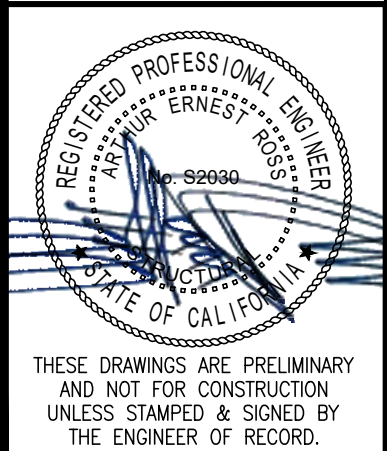
VERTICAL EXTERIOR WALL & SOFFIT VENTS: (C.B.C. SEC. 706A.1 & 2)
SCREENED WITH A CORROSION-RESISTANT NONCOMBUSTIBLE WIRE MESH
WITH 1/16" (1.6mm) MIN. OPENINGS AND NOT TO EXCEED 1/8" (3.2mm).

EXTERIOR WINDOWS: (C.B.C. SECTION 708A.2.1)
METAL FRAME, TEMPERED GLASS, OR ASSEMBLY OF FIRE RESIST OF NOT
LESS THAN 20 MINUTES.

EXTERIOR DOORS: (C.B.C. SECTION 708A.3)
NON COMBUSTIBLE METAL DOORS AND FRAME, OR ASSEMBLY OF FIRE
RESIST OF NOT LESS THAN 20 MINUTES.



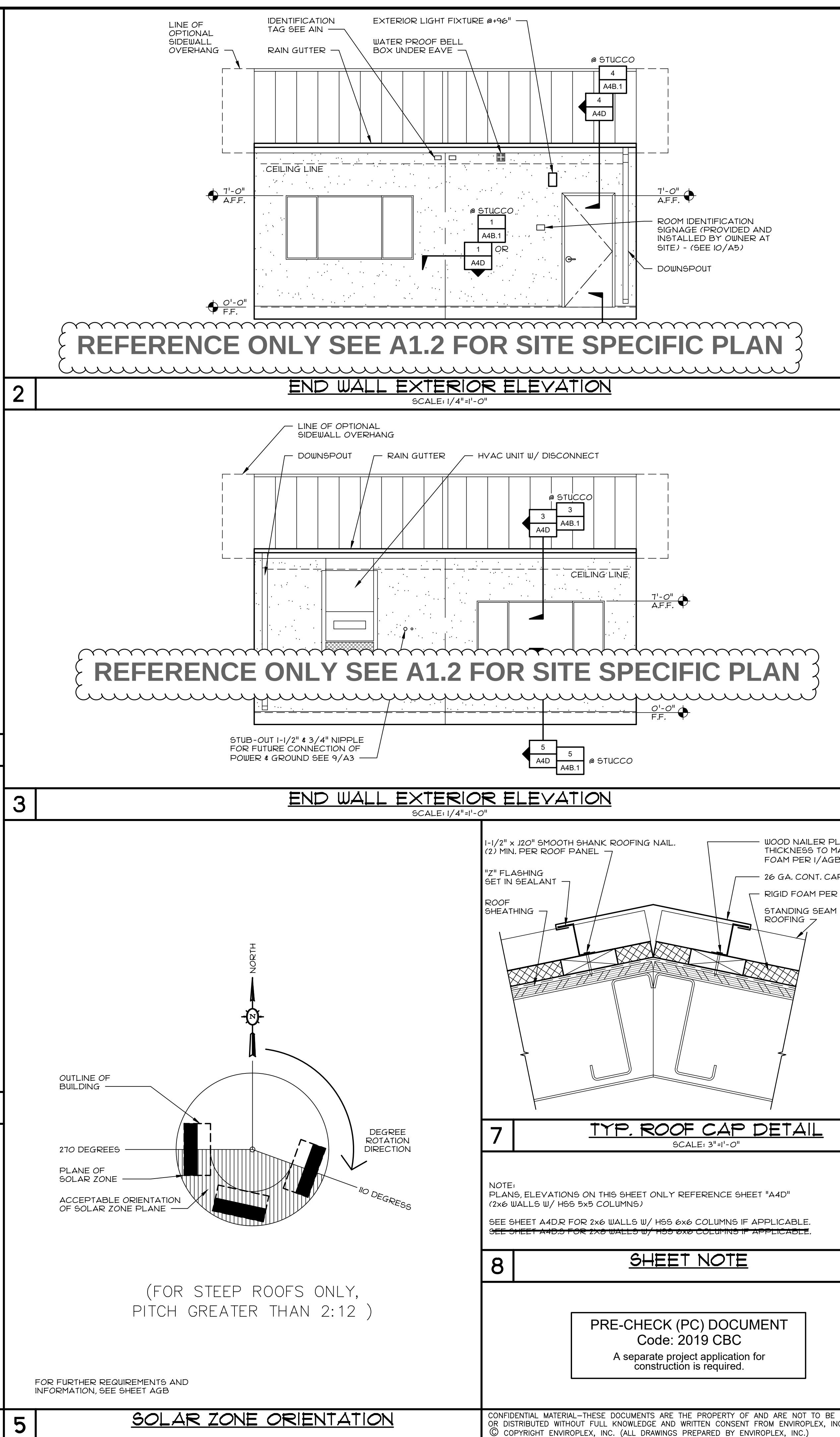
1 MIN. FOUNDATION CLEARANCES FROM SLOPES
SCALE: NTS

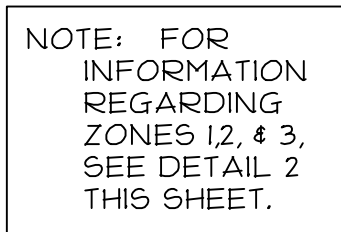


PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for
construction is required.

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A1N





b - 0.6h *
c - 0.2h *
* h = MEAN

* h = MEAN

FEET EXCEPT
THAT LEAV. HEIGHT
SHALL BE USED FOR
ANGLES $< 10^\circ$

DESIGN WIND PRESSURE ZONES PER ASCE 7-16 FIGURE 30.4-1, SEE SCHEDULE ON DETAIL 3. THIS SHEET FOR WIND PRESSURES IN EACH ZONE.

* b, c AND h DIMENSIONS
DETERMINE THE LIMITS OF
ZONE 3 AND MUST BE
INDICATED ON A PLAN FOR
EACH SITE-SPECIFIC PROJECT

* δ = DIMENSION PER ASCE 7-16
10% OF LEAST HORIZONTAL
DIMENSION OR $0.4h^*$,
WHICHEVER IS SMALLER, BUT
NOT LESS THAN EITHER 4% OF
LEAST HORIZONTAL
DIMENSION OR 3'.

*h = MEAN ROOF HEIGHT IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ANGLES $< 10^\circ$

① ② ③

INDICATE DESIGN WIND PRESSURE
ZONES PER ASCE 7-16 FIGURE
30.4-1, SEE SCHEDULE ON DETAIL 3
THIS SHEET FOR WIND PRESSURES
IN EACH ZONE.

* a, AND b DIMENSIONS DETERMINE THE LIMITS OF ZONE 3 AND MUST BE INDICATED ON A PLAN FOR EACH SITE-SPECIFIC PROJECT.

16" O.C. SEAM TO SEAM

26 GA. STANDING BEAM ROOF PANEL

1" THICK RIGID FOAM INSULATION

ROOFING PANELS DOUBLE CRIMPED OVER CLIP

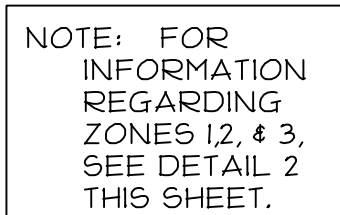
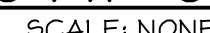
22 GA. CONCEALED ROOF CLIP INSTALLED IN 8" FT. TO 10" FT. LONG SECTIONS ALONG ENTIRE LENGTH OF EACH STANDING BEAM. USE 18 x 1-1/2" B7 ZINC PLATE COARSE THREAD SCREWS INTO CORP. STRONG POINT (OR EQUAL).

CLIP PROFILE, CLIP LENGTH AND CLIP FASTENER SPACING PER 4/AIR

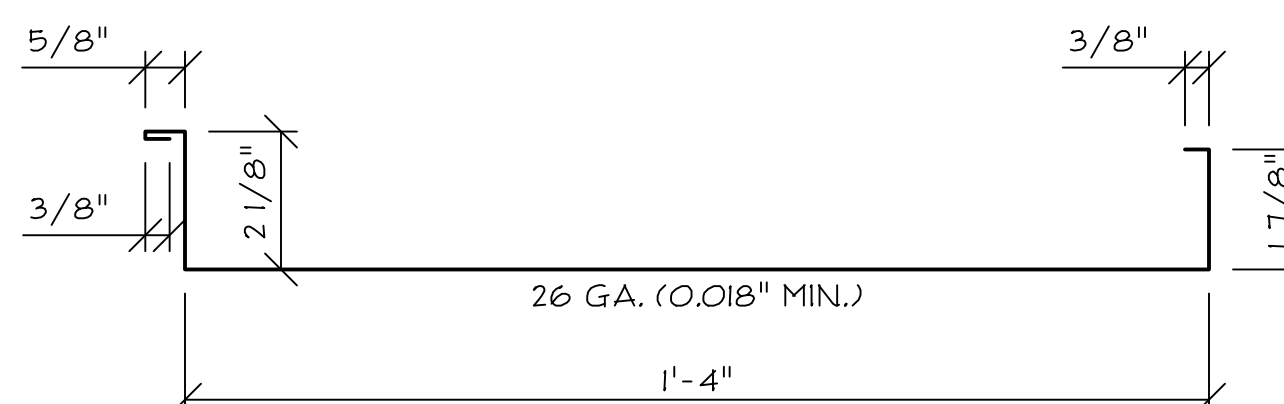
5/8" APA RATED, ORIENTED STRAND BOARD SHEATHING, 40/20 SPAN INDEX, EXP.1

ROOF UNDERLAYMENT

SCALE: 3"=1'-0"



CLIP PROFILE



SCALE: NTS

CLIP ALONG ENTIRE LENGTH OF EACH STANDING SEAM

PARALLEL SEE NOTE 4

NOTES:

1. VALUES HAVE BEEN DETERMINED BY TESTING IN ACCORDANCE WITH UL 1891: STANDARD FOR SAFETY: UPLIFT TESTS FOR ROOF COVERING SYSTEMS.
2. TESTING CONSULTING/RADCO, INC.
TEST REPORT NO.; 22606/OS-REV I, ISSUED MARCH 28, 2022.
3. 2. NOT USED.
4. ALLOWABLE UPLIFT CAPACITY INCLUDES A SAFETY FACTOR = 1.5
5. THE CLIP SLIDING CAPACITY HAS NOT BEEN TESTED, IF SOLAR PANELS ARE TO BE ADDED TO A ROOF WITH EXISTING UPLIFT CAPACITY MUST BE DETERMINED BY FIELD TESTING FOR SLOPES EQUAL TO OR GREATER THAN 12 DEGREES; EXISTING LOADS FROM WIND AND SNOW AND WIND ON THE 50% PANEL SURFACE IS LESS THAN THE DISPLACED DESIGN WIND LOAD SLIDING COMPONENT PER IR 18-6 SECTION 512.
6. P.V. PANEL ATTACHMENT IS NOT PART OF THIS PC APPROVAL.
7. CONVERSION FROM ALLOWABLE UPLIFT (ASD) TO UPLIFT CAPACITY (LRFD) BASED ON ASD WIND PRESSURE = 0.6 (LRFD PRESSURE)

SCALE: NONE

Code: 2019 CBC
A separate project application
construction is required

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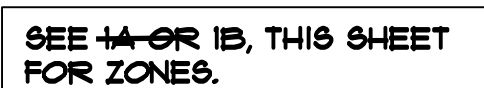


ALLATIN



NOTE:
1) SEE 3/AIR FOR COMPLETE
ROOFING ATTACHMENT
DETAILS

ALLA FIN



三、九、十

A circular professional engineer seal for Arthur Ernest Ross, No. 82030, State of Virginia. The seal is stamped in blue ink and features a signature across it.



ENVIROPLEX, INC.
4777 E. CARPENTER ROAD
STROUDT, PA 19382

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120100 PC
REVIEWED FOR
SS ☒ FL ☒ ACS ☒ CG ☒
DATE: 04/26/2022

STANDARD ELEMENTARY
SCHOOL
STANDARD SCHOOL
DISTRICT

ROOFING ATTACHMENT

REV / DATE:		BY:
JOB No.:		
DRAWN BY:		
DATE:		
A1R		

A1R

LIST OF HVAC EQUIPMENT (ANY SUBSTITUTIONS OF EQUIPMENT MADE TO THE APPROVED PC MUST BE EQUAL OR BETTER THAN THE EQUIPMENT LISTED BELOW)							
	ROOM SIZE: 24x40 ¹			ROOM SIZE: 36x40 ¹			
	EXTERIOR WALL MOUNT HVAC UNIT	INTERIOR HVAC UNIT	EXTERIOR ROOF MOUNT HVAC UNIT	EXTERIOR WALL MOUNT HVAC UNIT	INTERIOR HVAC UNIT	EXTERIOR ROOF MOUNT HVAC UNIT	
	ALLOWED IN CLIMATE ZONE(S): 1 THROUGH 16	ALLOWED IN CLIMATE ZONE(S): 1 THROUGH 16	ALLOWED IN CLIMATE ZONE(S): 1 THROUGH 16	ALLOWED IN CLIMATE ZONE(S): 1 THROUGH 14, 16	ALLOWED IN CLIMATE ZONE(S): 15	ALLOWED IN CLIMATE ZONE(S): 1 THROUGH 16	ALLOWED IN CLIMATE ZONE(S): 1 THROUGH 16
MAKE AND MODEL OF HVAC EQUIPMENT	TWO UNITS ¹ "BARD" W42HC, 3.5 TON, SINGLE PACKAGE WALL MOUNT HEAT PUMP W/ CRV-Y	TWO UNITS ¹ "BARD" I-TEC, 1.48H 1.40 TON, SINGLE PACKAGE INTERIOR HEAT PUMP	TWO UNITS ¹ "CARBIDE" 50 VT-048, 4.0 TON, SINGLE PACKAGE ROOF MOUNT HEAT PUMP W/ CRV-Y	TWO UNITS ¹ "BARD" W42HC, 3.5 TON, SINGLE PACKAGE WALL MOUNT HEAT PUMP W/ CRV-Y	TWO UNITS ¹ "BARD" W48HC, 4.0 TON, SINGLE PACKAGE WALL MOUNT HEAT PUMP W/ CRV-Y	TWO UNITS ¹ "BARD" I-TEC, 1.48H 1.40 TON, SINGLE PACKAGE INTERIOR HEAT PUMP	TWO UNITS ¹ "CARBIDE" 50 VT-048, 4.0 TON, SINGLE PACKAGE ROOF MOUNT HEAT PUMP W/ CRV-Y
UNIT WEIGHT (LBS.)	510	884	150	510	510	884	750
REQUIRED MINIMUM HEATING (BTU/h)	38,204	38,204	38,204	38,204	41,378	41,378	41,378
MINIMUM AUXILIARY STRIP HEATING	4 KW	4 KW	4 KW	10 KW	4 KW	10 KW	10 KW
REQUIRED MINIMUM COOLING (BTU/h)	42,000	42,000	42,000	42,000	47,500	47,500	47,500
MINIMUM EFFICIENCY RATING	11.0 EER 3.3 COP	12.0 EER 3.1 COP	12.0 EER 3.6 COP	11.0 EER 3.3 COP	11.0 EER 3.3 COP	12.0 EER 3.1 COP	12.0 EER 3.6 COP
REQUIRED MINIMUM AIR FILTER	MERV 13 2" DEPTH	MERV 13 2" DEPTH	MERV 13 2" DEPTH INCLUDE ACCESSORY KIT FOR 2" DEEP CAMFIL-AP THIRTEEN FILTER (OR EQUAL)	MERV 13 2" DEPTH	MERV 13 2" DEPTH	MERV 13 2" DEPTH INCLUDE ACCESSORY KIT FOR 2" DEEP CAMFIL-AP THIRTEEN FILTER (OR EQUAL)	MERV 13 2" DEPTH
REQUIRED MINIMUM OUTDOOR AIR (CFM)	720 CFM FOR EACH 160 S.F. OF CONDITIONED SPACE	720 CFM FOR EACH 160 S.F. OF CONDITIONED SPACE	720 CFM FOR EACH 160 S.F. OF CONDITIONED SPACE	720 CFM FOR EACH 160 S.F. OF CONDITIONED SPACE	720 CFM FOR EACH 160 S.F. OF CONDITIONED SPACE	720 CFM FOR EACH 160 S.F. OF CONDITIONED SPACE	720 CFM FOR EACH 160 S.F. OF CONDITIONED SPACE
REQUIRED DAMPER POSITION TO BRING IN OUTSIDE AIR	FULLY OPEN	FULLY OPEN	FULLY OPEN	FULLY OPEN	FULLY OPEN	FULLY OPEN	FULLY OPEN
MAKE AND MODEL OF THERMOSTAT	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).
MAKE AND MODEL OF CARBON DIOXIDE MONITOR (CO ₂)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MAKE AND MODEL OF ECONOMIZER	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MAKE AND MODEL OF OVERRIDE CONTROLS FOR HVAC EQUIPMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MAKE AND MODEL OF FAULT DETECTION DIAGNOSTICS	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MAKE AND MODEL OF DEMAND CONTROL VENTILATION EQUIPMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A

¹ DERIVATIVES OF 24x40 AND 36x40 ROOM SIZES MAY BE COMBINED AND ATTACHED ADJACENT TO EACH OTHER TO FORM THE MAXIMUM BUILDING LENGTH ALLOWED BY THIS PC OF 120'-0".

1. HEAT PUMP EQUIPMENT:
SINGLE PACKAGE HEAT PUMP UNITS SHALL BE RATED IN ACCORDANCE WITH ARI STANDARDS 340-77 (U.L. LISTED).
WIRING AND MOUNTING INSTALLATION OF UNIT PER MANUFACTURER'S INSTRUCTIONS.

- 1.1 AIR FILTERS:
MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13 (CGBS 5.504.5.3).
FILTERS SHALL HAVE A 2" MINIMUM DEPTH PER ENERGY CODE 120.1(i)(1).
AN APPROVED TYPE TESTED IN ACCORDANCE WITH TEST METHODS SFM-12-71-AS SHOWN IN PART 12, TITLE 24, CALIFORNIA CODE OF REGULATIONS. PRE-FORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 2 OR BETTER, AS DEFINED IN THE TEST METHOD ABOVE. AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.

2. CONTROLS: (@ 148" MAXIMUM A.F.F.) - (TO TOP OF BOX)
THERMOSTAT: SEE HVAC EQUIPMENT SCHEDULE ON THIS SHEET.
SYSTEM SHALL BE INSTALLED WITH VENTILATION CONTROLS OF HVAC PER C.E.C. 120.2(e)(3).

- 2.1 THERMOSTAT SHALL BE PROGRAMMED WHEN MODULAR BUILDING IS PLACED ON SITE.
PROGRAMMING SHALL INCLUDE:
- SPECIFY BUILDING OCCUPIED TIMES
- PROGRAM AIR HANDLER FAN TO RUN DURING ALL OCCUPIED TIMES PER ENERGY CODE 120.1(i)(1).
- SPECIFY PRE-OCCUPANCY PURGE ONE HOUR PRIOR TO NORMALLY BEING OCCUPIED PER ENERGY CODE 120.1(i)(2).

3. DUCTS: MAY BE CLASS "1" OR "0"
FACTORY MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. STANDARDS NO. 6-1. EACH PORTION OF A FACTORY MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH STANDARD NO. 6-1 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING. INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDING SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVE AS NORMALLY APPLIED. MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50.

- 3.1 ALL AIR DISTRIBUTION SYSTEMS DUCTS AND PLENUMS MUST BE INSTALLED, SEALED AND INSULATED AS REQUIRED BY CALIFORNIA ENERGY CODE, 120.4(e).

- 3.2 INNER LINER OF FLEX DUCTS MUST BE PULLED TIGHT. NO TIGHT BENDS. ALL BENDS MUST BE GREATER THAN ONE DUCT DIAMETER RADIUS. DUCTS SHALL BE SUPPORTED AT A MAXIMUM OF 4 FT. MAXIMUM SAG BETWEEN SUPPORTS IS 1/2" PER FOOT OF SUPPORT SPACING. A DUCT SUPPORTED AT 4 FT. SHALL HAVE A MAXIMUM SAG OF 2" BETWEEN SUPPORTS.
THE INNER CORE OF FLEXIBLE DUCTS MUST BE ATTACHED USING A STAINLESS STEEL WORM DRIVE HOSE CLAMP OR UV-RESISTANT NYLON DUCT TIE FOR CONNECTION.

- 3.3 MECHANICALLY FASTEN CONNECTIONS BETWEEN METAL DUCTS. ALL JOINTS/CONNECTION MUST BE SEALED AND MADE AIRTIGHT BY USE OF MASTIC, TAPE, AEROSOL SEALANT, OR OTHER DUCT CLOSURE SYSTEM THAT MEETS THE APPLICABLE REQUIREMENTS OF UL 181, UL 181A, UL 181B, OR UL 723. DUCT SYSTEMS SHALL NOT USE CLOTH-BACK, RUBBER ADHESIVE DUCT TAPE REGARDLESS OF UL DESIGNATION, UNLESS IT IS INSTALLED IN COMBINATION WITH MASTIC AND CLAMPS. WHEN MASTIC OR TAPE IS USED TO SEAL OPENINGS GREATER THAN 1/4 INCH, A COMBINATION OF MASTIC AND MESH OR MASTIC AND TAPE MUST BE USED. ENERGY CODE SECTION 120.4.

4. COMBINED UNITS SUPPLYING GREATER THAN 2000 CFM REQUIRES DUCT SMOKE DETECTOR FOR AUTO SHUT-DOWN, INTERCONNECT WITH FIRE ALARM SYSTEM 609, UNLESS ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO EXTERIOR, AND TRAVEL DIST DOES NOT EXCEED 100 FT.

5. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION
DURING ROUGH INSTALLATION, DURING SHIPMENT OF RELOCATABLE, STORAGE ON CONSTRUCTION SITE, AND UNTIL FINAL STARTUP, ALL DUCTS OPEN ENDS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER METHODS TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. DUCTS SHALL BE CLEANED DURING CONSTRUCTION AND AT COMPLETION AS NEEDED. (CGBS SEC. 5.504.5).
6. EACH SPACE SHALL BE DESIGNED TO HAVE NATURAL VENTILATION OR MECHANICAL VENTILATION THAT IS NOT LESS THAN THE LARGER OF CONDITIONED FLOOR AREA TIMES THE REQUIREMENTS IN THE CALIFORNIA ENERGY CODE TABLE 120.1-A OR 15 TIMES THE EXPECTED NUMBER OF OCCUPANTS.

- 6.1 PC MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT THE EXPECTED NUMBER OF OCCUPANTS IN THE CLASSROOM SO THAT THE OUTDOOR VENTILATION RATE FOR MECHANICAL SYSTEMS CAN BE ADEQUATELY ADJUSTED UPON SITE INSTALLATION OF THE BUILDING. PC MANUFACTURER SHALL ALSO CONFIRM WITH HVAC EQUIPMENT MANUFACTURER THAT THE SELECTED EQUIPMENT WILL BE ABLE TO PERFORM TO ACCOMMODATE THE ADDITIONAL OUTDOOR AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING IS LOCATED. AT OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO BUILDING OWNER A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIPIRATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.

7. MECHANICAL SYSTEM ACCEPTANCE REQUIREMENTS.
THE FOLLOWING EQUIPMENT AND SYSTEMS SHALL BE CERTIFIED AS MEETING THE ACCEPTANCE REQUIREMENTS FOR CODE COMPLIANCE AS SPECIFIED BY THE REFERENCE NONRESIDENTIAL MANUAL APPENDIX NA7:
OUTDOOR AIR VENTILATION SYSTEMS (NAT.5.1)
CONSTANT VOLUME, SINGLE ZONE UNITARY A/C AND HEAT PUMP UNIT CONTROLS (NAT.5.2)

8. WHEN RESTROOM OPTIONS ARE USED, MECHANICAL EXHAUST SHALL BE PROVIDED PER 2019 C.M.C. TABLE 403.7.

MEP Component Anchorage Notes

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 2019 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13.25, and 30.

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (e.g. hard wind) 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.
3. 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 support 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 and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Notes

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8, and 2019 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.28.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the project prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

- MP ■ MD ■ PP ■ E Option 1: Detailed on the approved drawings with project specific notes and details.
■ MP ■ MD ■ PP ■ E Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM #) # _____

3 MEP ANCHORAGE & BRACING NOTES

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

2 HVAC NOTES AND REQUIREMENTS

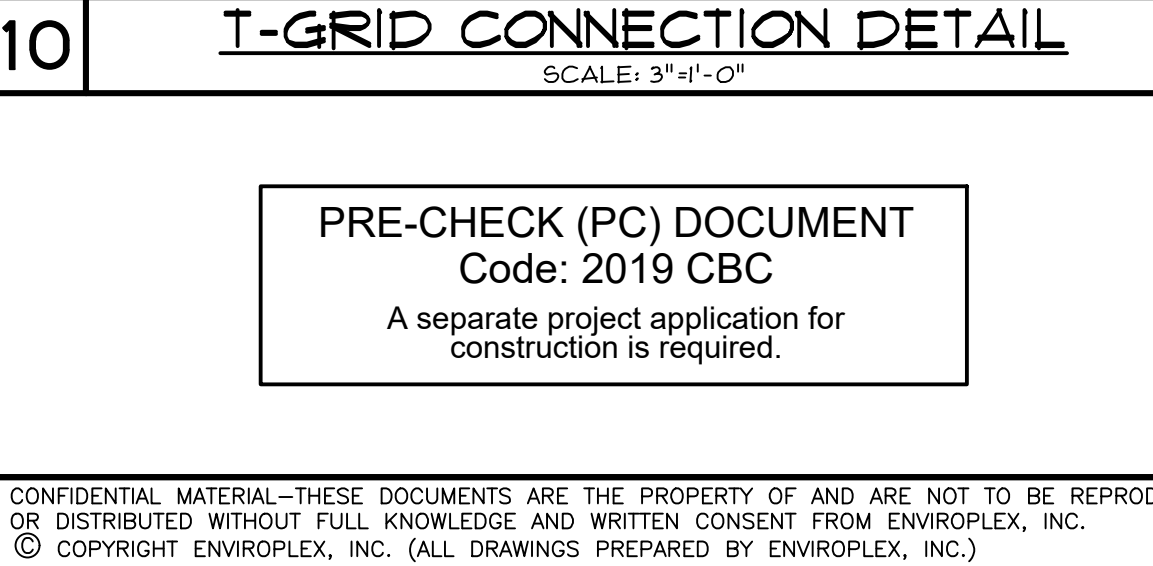
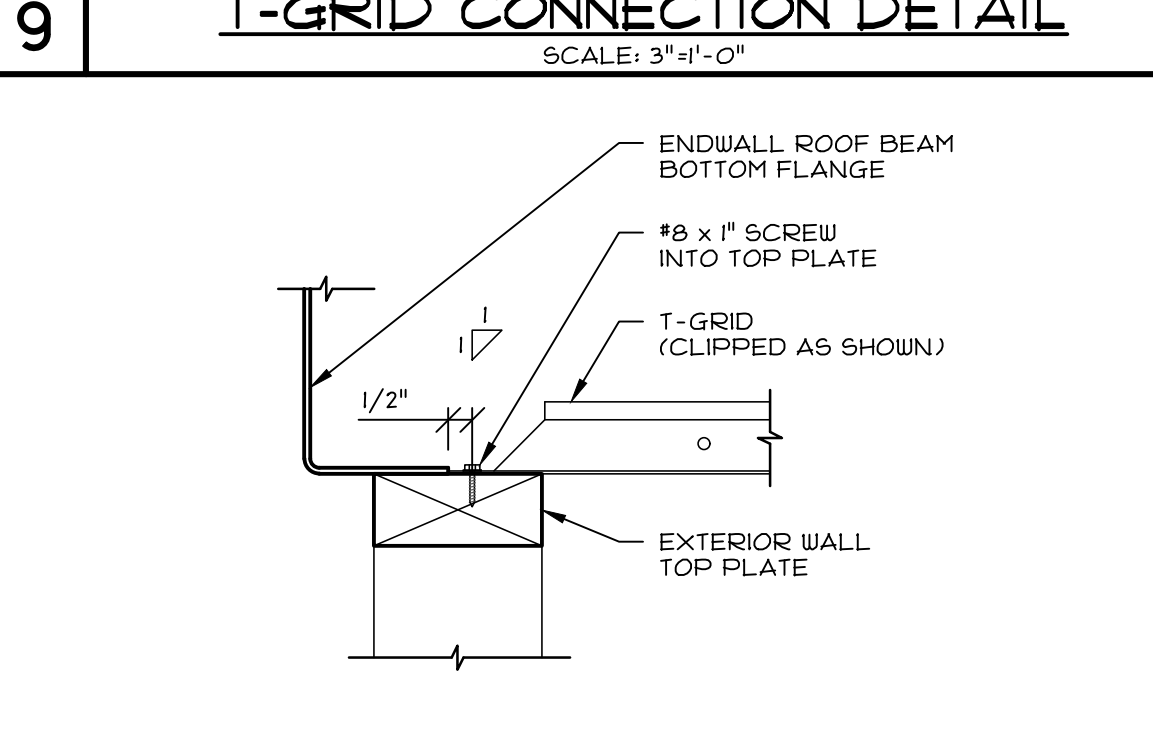
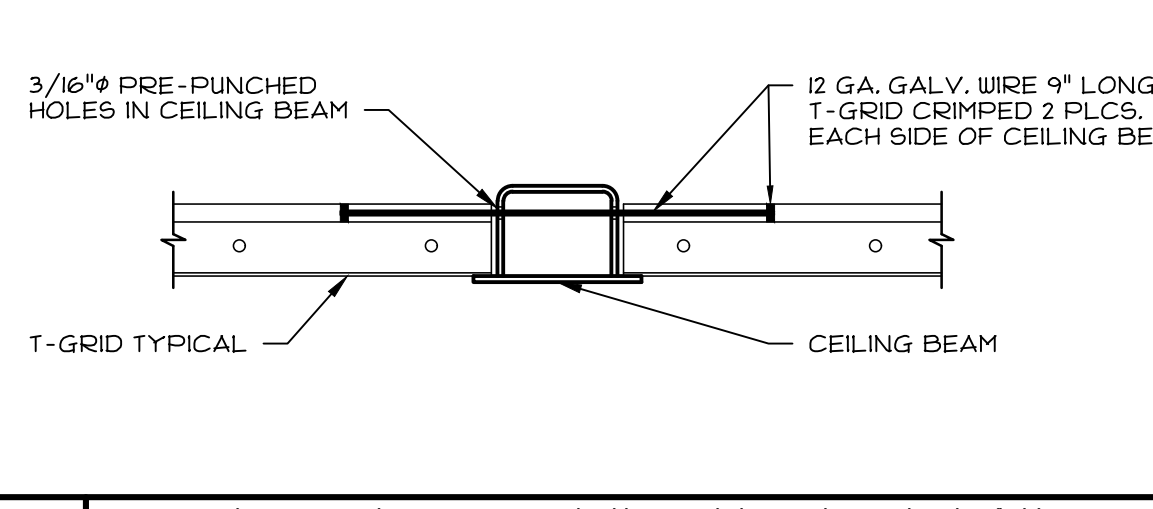
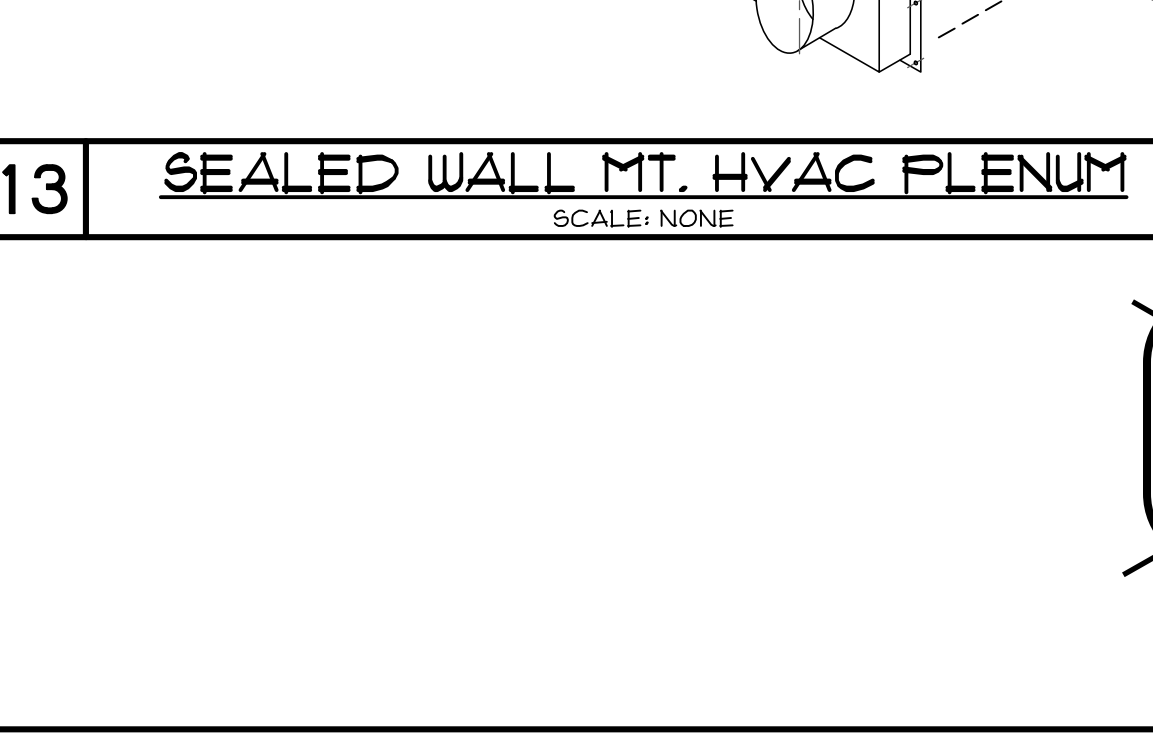
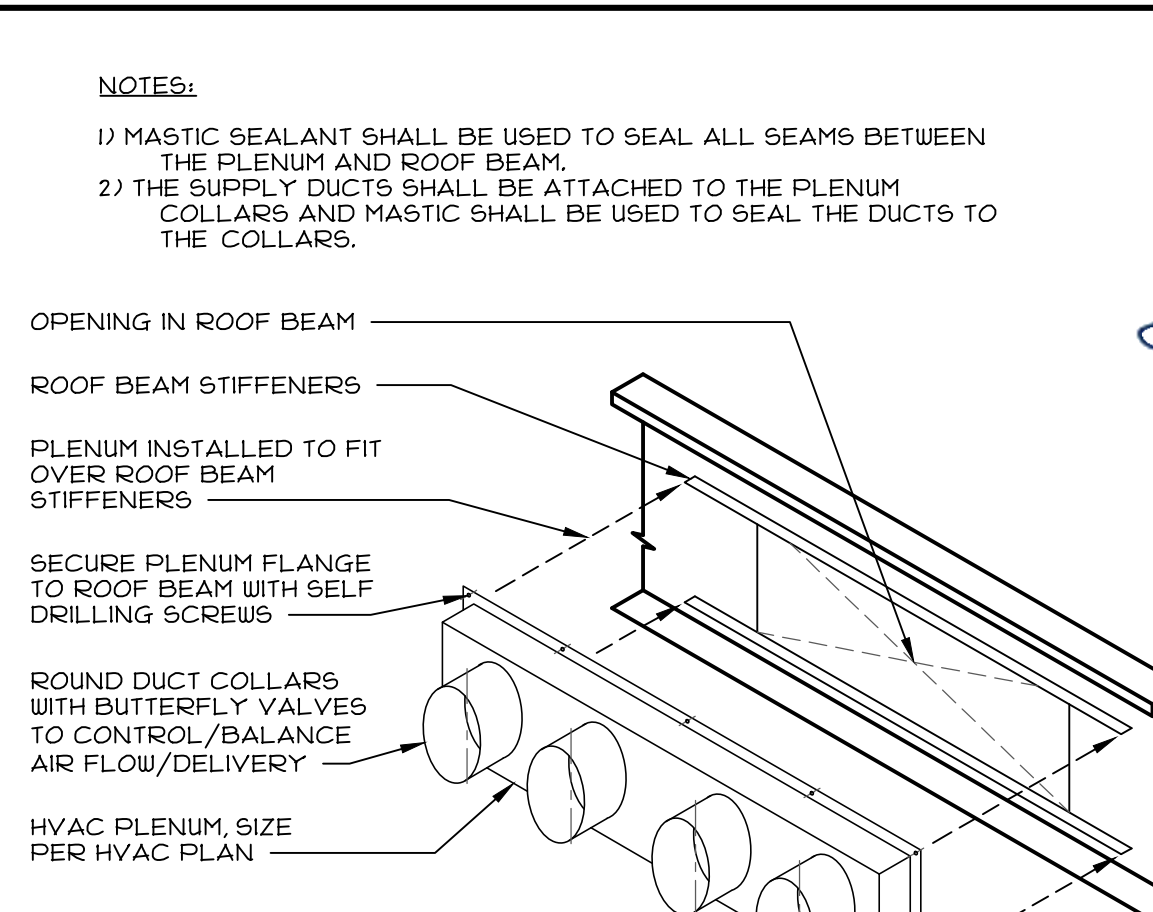
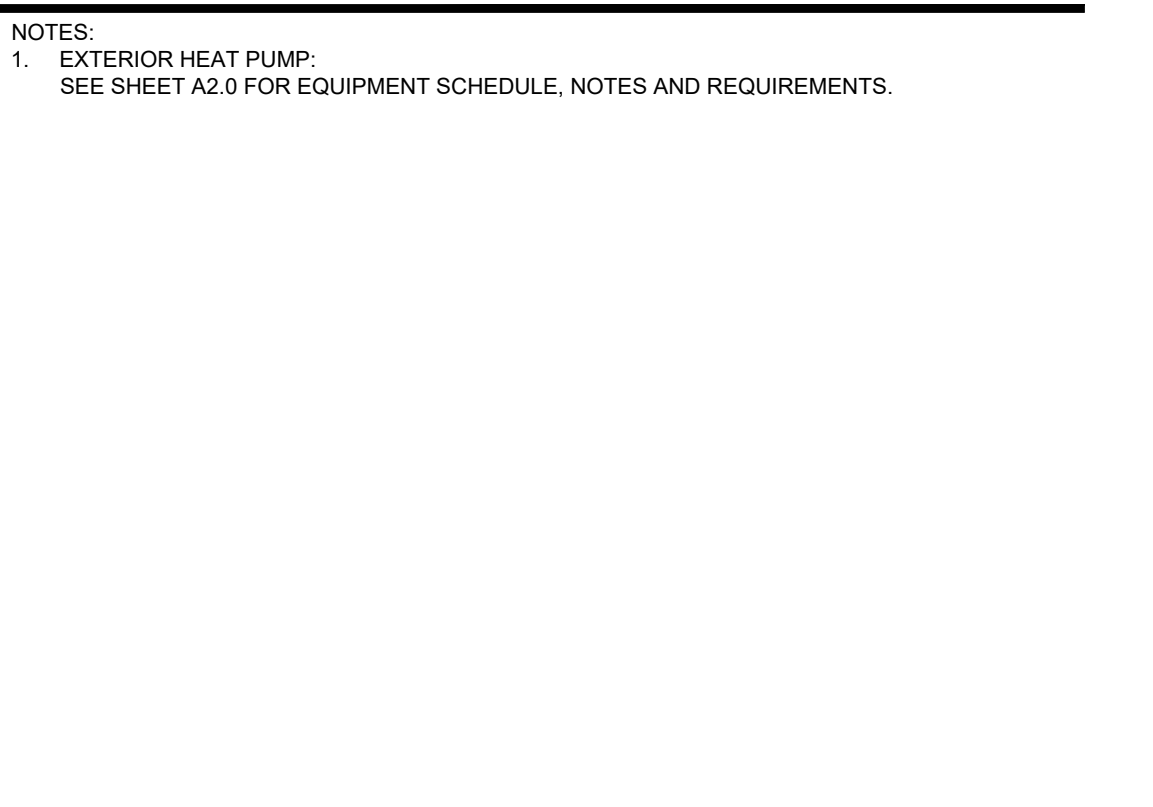
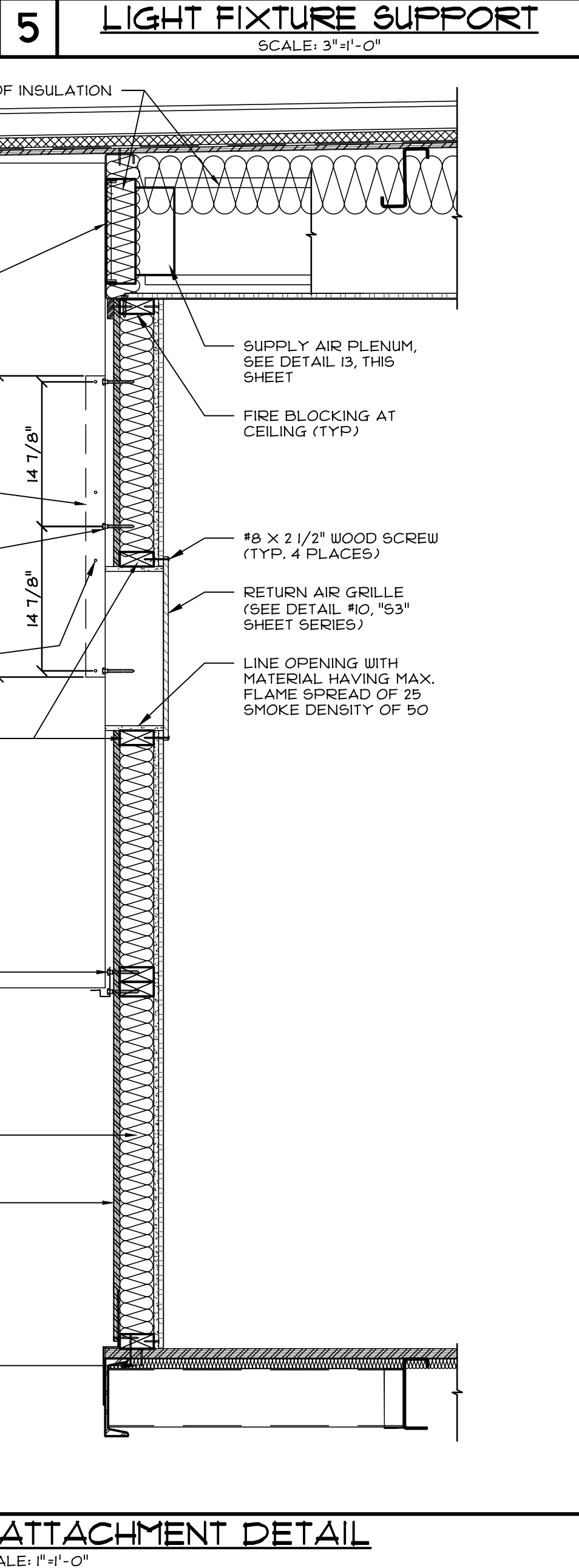
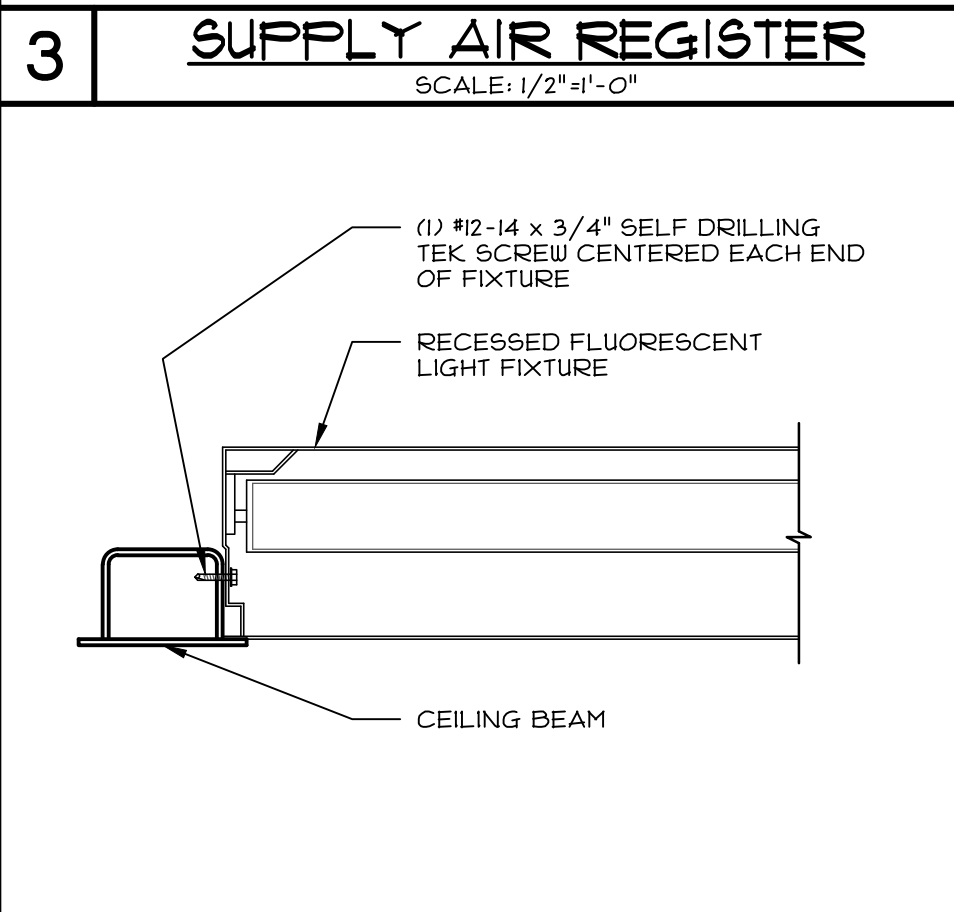
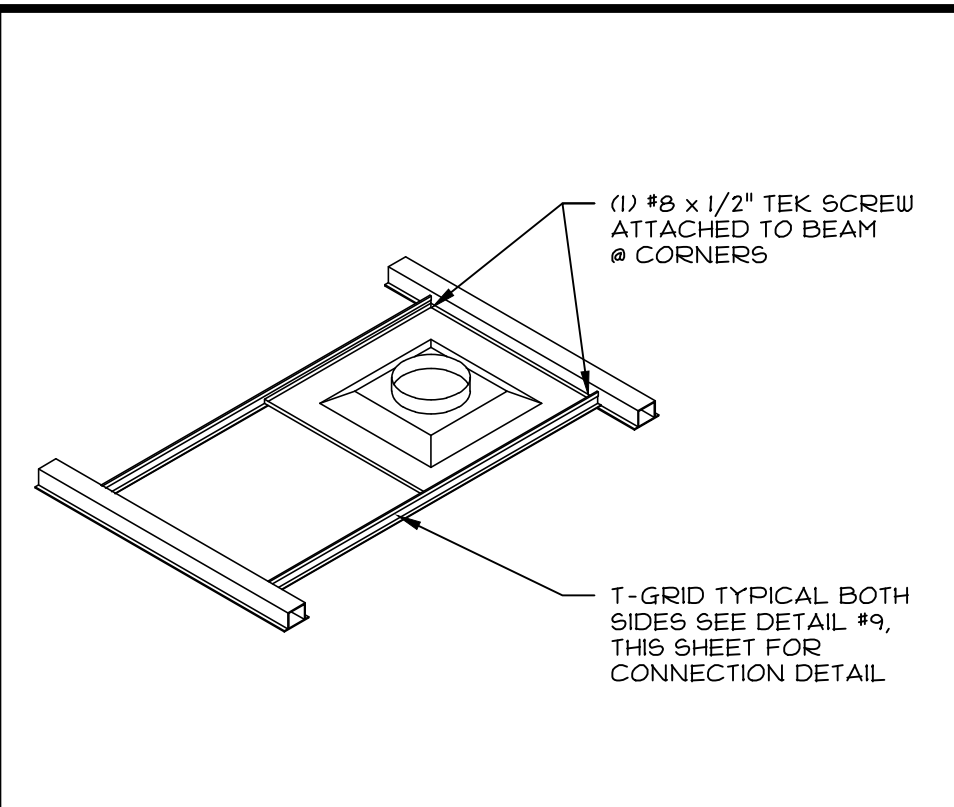
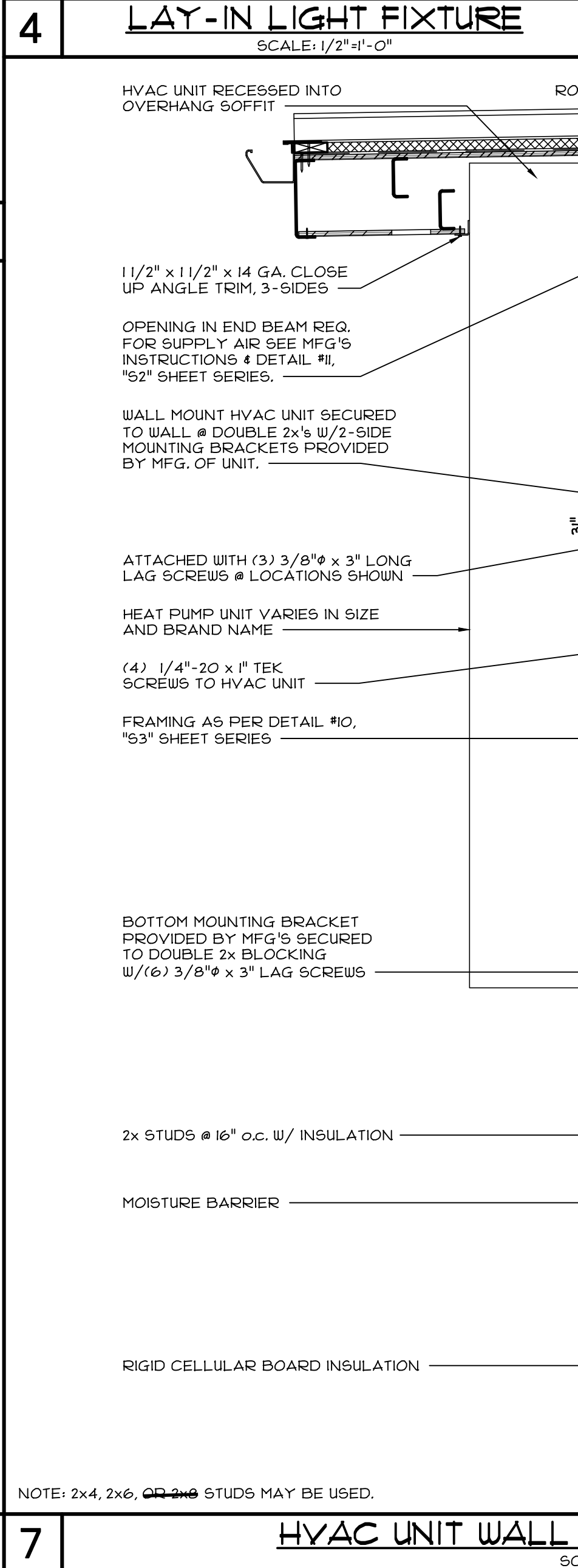
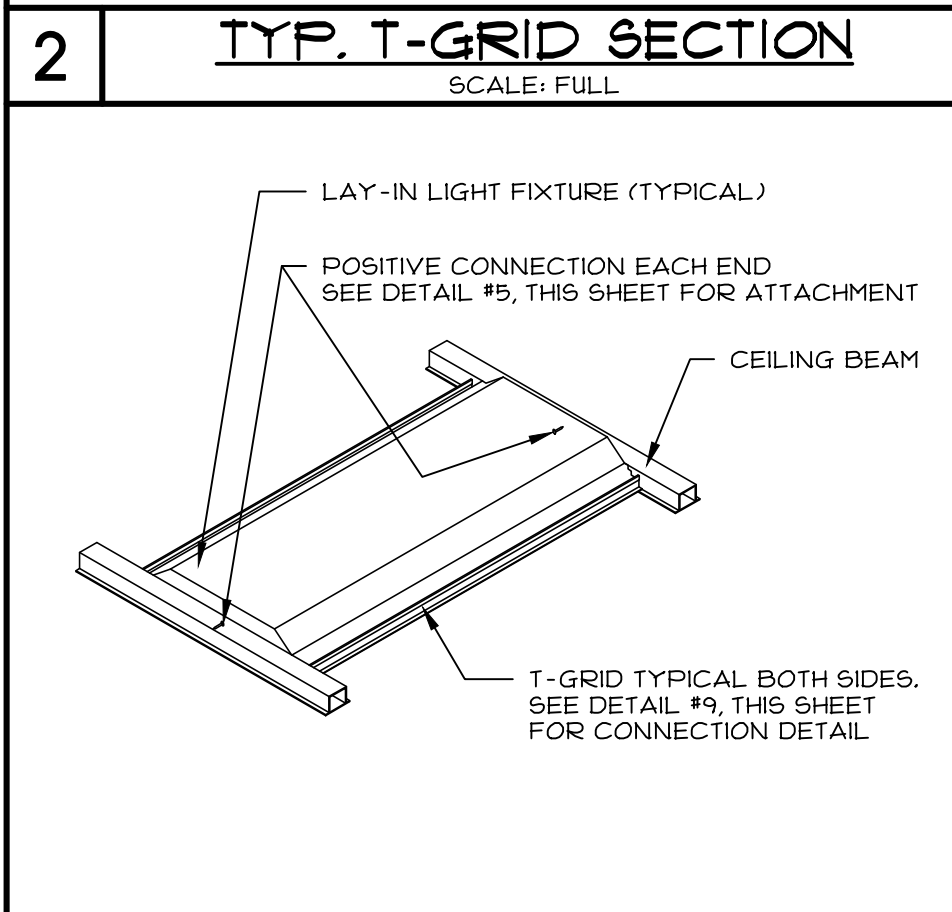
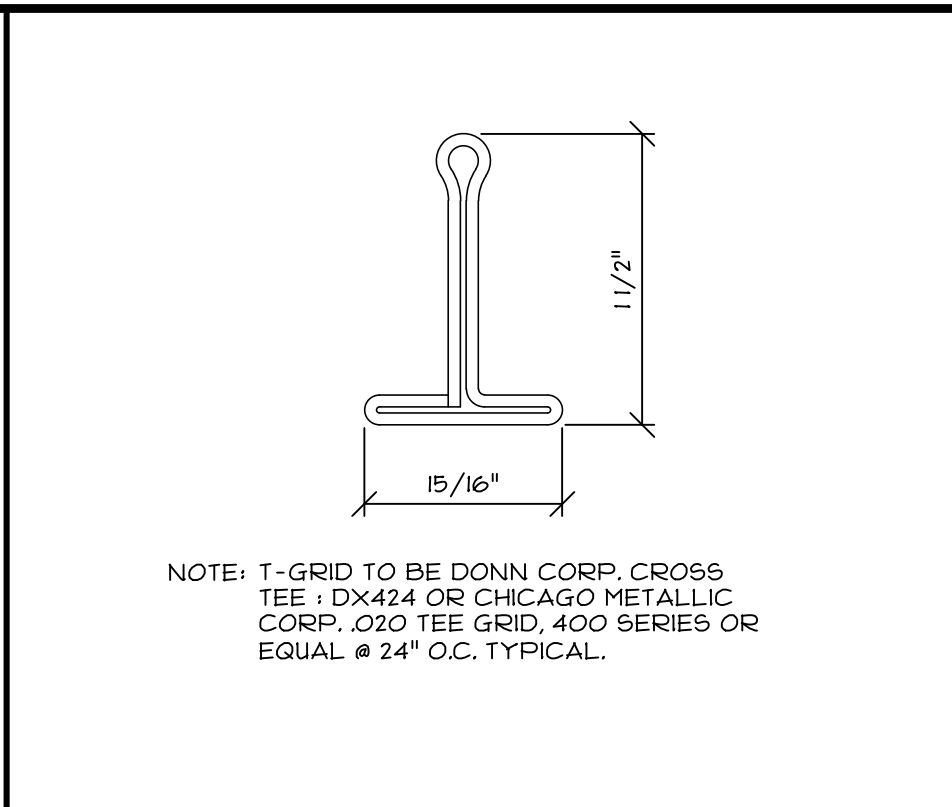
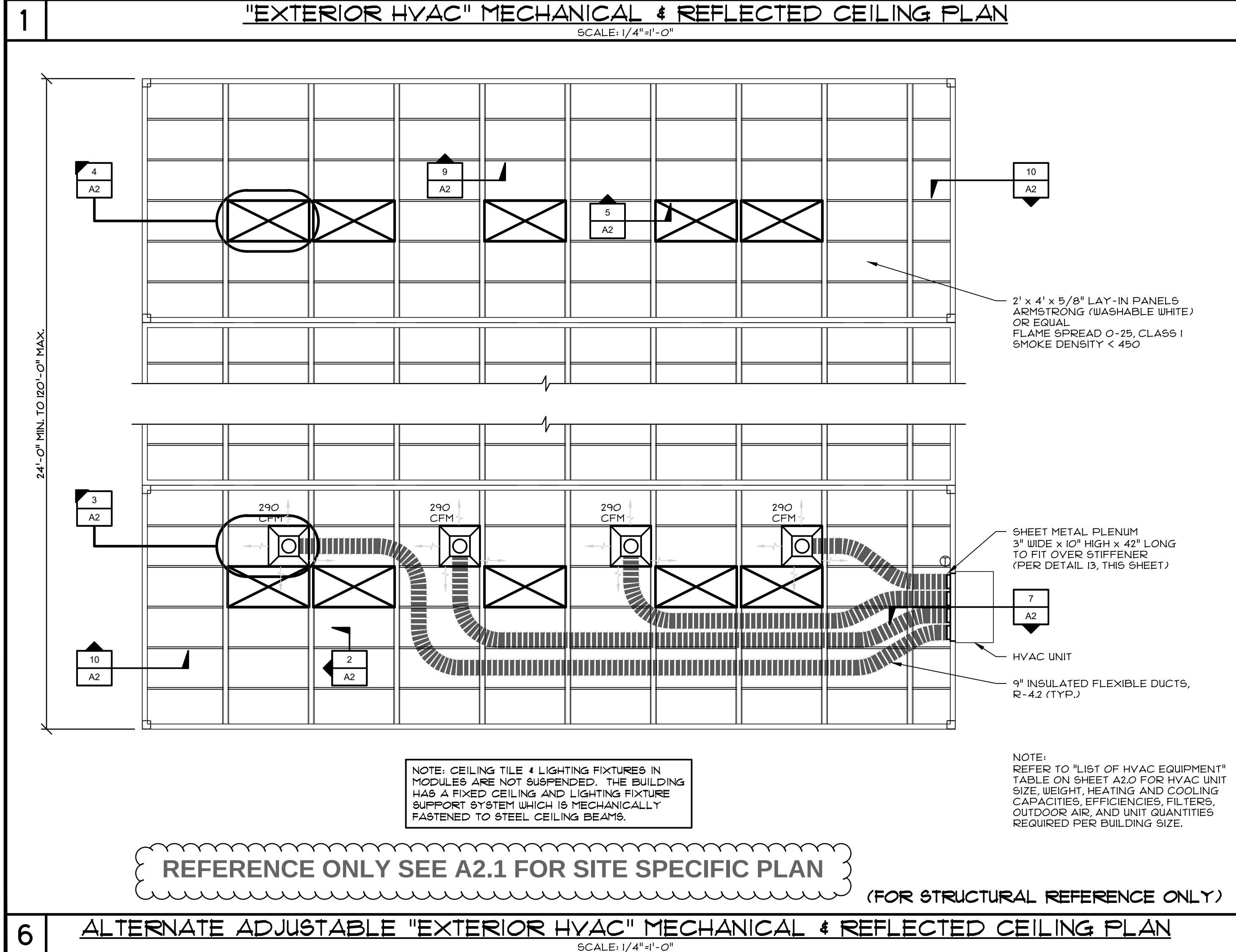
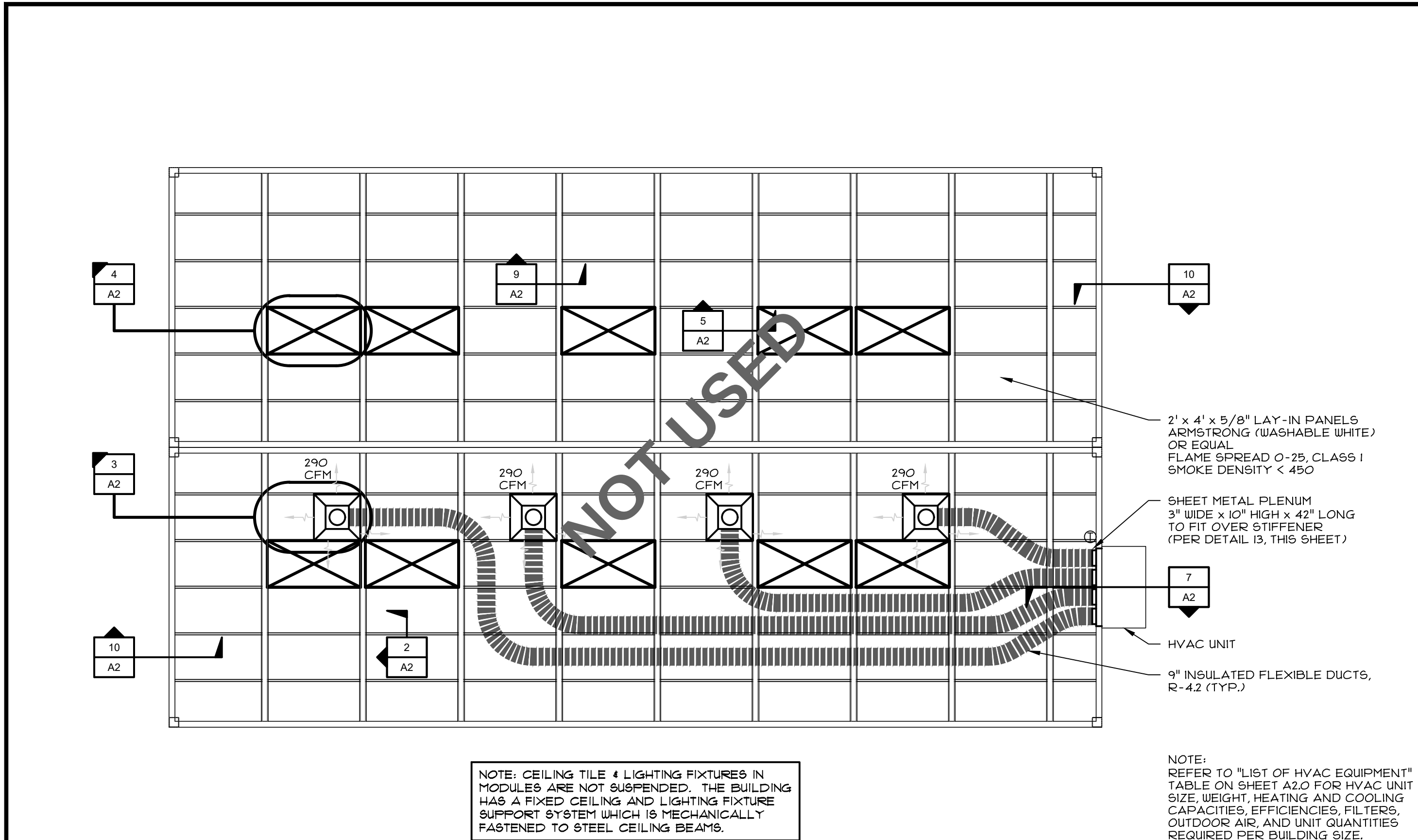
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DATE: 04/26/2022

STANDARD ELEMENTARY SCHOOL
STANDARD SCHOOL DISTRICT

HVAC EQUIPMENT & NOTES

A2.0



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09/15/2022
04/29/2022
06/14/2021

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
No. 50869

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STANDARD ELEMENTARY
SCHOOL
STANDARD SCHOOL
DISTRICT

"EXTERIOR HVAC UNIT"
MECHANICAL & REFLECTED
CEILING PLANS, HVAC WALL
ATTACH., DETAILS, HVAC
SPECIFICATIONS

REV	DATE	BY

JOB No.:
DRAWN BY:
DATE:

A2

NOTE:
ONLY APPLICABLE CAL-GREEN MANDATORY MEASURES TO THE ENVIROPLEX
MODULAR BUILDING ARE LISTED BELOW. FOR A COMPLETE LIST OF MEASURES
REQUIRED FOR THE ENTIRE CONSTRUCTION PROJECT, REFER TO USA DOCUMENT
GL-4.

- WATER CLOSETS.
THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28
GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE
PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION
FOR TANK-TYPE TOILETS.
- URINALS.
THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 0.125 GALLONS PER FLUSH FOR
FLOOR MOUNTED URINALS AND 0.125 GALLONS PER FLUSH FOR WALL MOUNTED
URINALS.
- INDOOR WATER USE:
LAVATORY FAUCETS - 0.5 GPM
KITCHEN FAUCETS - 1.8 GPM @ 90 p.s.i.
GRAVITY TANK WATER CLOSET - 1.28 GAL/FLUSH
FLUSHOMETER TANK WATER CLOSET - 1.28 GAL/FLUSH
FLUSHOMETER VALVE WATER CLOSET - 1.28 GAL/FLUSH
- EXTERIOR DOOR PROTECTION.
PRIMARY EXTERIOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY
USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND
AND PERPENDICULAR TO SUCH OPENINGS
PLUS AT LEAST ONE OF THE FOLLOWING:
1. AN INSTALLED AWNING AT LEAST 4 FEET IN DEPTH.
2. THE DOOR IS PROTECTED BY A ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
3. NOT USED
4. OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION.
- CONSTRUCTION WASTE MANAGEMENT:
A MINIMUM OF 65% OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION
WASTE SHALL BE RECYCLED AND/OR SALVAGED FOR REUSE.

CONSTRUCTION WASTE MANAGEMENT PLAN SHALL:
1) IDENTIFY WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL.
2) DETERMINE OF WASTE MATERIALS WILL BE SORTED ON-SITE OR BULK
MIXED.
3) IDENTIFY DIVERSION FACILITIES WHERE COLLECTED WASTE MATERIAL
WILL BE TAKEN.
4) SPECIFY THE AMOUNT OF WASTE DIVERTED CALCULATED BY WEIGHT OR
BY VOLUME.

UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE
DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION
WASTE MATERIAL DIVERTED FROM THE LANDFILL.
- COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT
DURING CONSTRUCTION.
AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION
SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND
VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION
COMPONENT OPENINGS SHALL BE COVERED WITH TAPE.
PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING
AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND
DEBRIS WHICH MAY COLLECT IN THE SYSTEM.
- CARPET SYSTEMS.
ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET AT LEAST ONE OF THE
TESTING AND PRODUCT REQUIREMENTS:
1. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM.
2. COMPLIANT WITH THE VOC-EMISSION LIMITS AND TESTING REQUIREMENTS
SPECIFIED IN THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD METHOD
FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC
CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS,
VERSION 1.1, FEBRUARY 2010
(ALSO KNOWN AS CDPH STANDARD METHOD V1.1 OR SPECIFICATION 01350).
3. NSF/ANSI 140 AT THE GOLD LEVEL OR HIGHER.
4. SCIENTIFIC CERTIFICATIONS SYSTEMS SUSTAINABLE CHOICE; OR
5. COMPLIANT WITH THE CALIFORNIA COLLABORATIVE FOR HIGH PERFORMANCE
SCHOOLS (CA-CHPS) CRITERIA INTERPRETATION FOR EQ 2.2 DATED JULY 2012 AND
LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE.
- CARPET CUSHION.
ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE
REQUIREMENTS OF THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.
- CARPET ADHESIVE.
ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 5.504.4.1.
- COMPOSITE WOOD PRODUCTS.
HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD
COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE
BUILDINGS SHALL MEET THE REQUIREMENTS FOR
FORMALDEHYDE AS SPECIFIED IN AIA'S AIR TOXICS CONTROL MEASURE FOR
COMPOSITE WOOD (17 CDR 93120 ET SEQ.).
THOSE MATERIALS NOT EXEMPTED UNDER THE ATCM MUST MEET THE SPECIFIED
EMISSION LIMITS, AS SHOWN IN TABLE
5.504.4.5.

A) MINIMUM SOLAR ZONE AREA BASED ON TOTAL ROOF AREA (NON-SHADED CONDITIONS):

- THE SOLAR ZONE MUST HAVE A TOTAL AREA THAT IS NO LESS THAN 15 PERCENT OF THE TOTAL ROOF AREA
AFTER SUBTRACTING ANY AREA OF THE ROOF THAT IS COVERED BY A SKYLIGHT.
- THE TOTAL AREA OF THE SOLAR ZONE MAY BE COMPOSED OF MULTIPLE SUB-AREAS. NO DIMENSION OF A
SUB-AREA CAN BE LESS THAN FIVE FEET. EACH SUB-AREA MUST BE AT LEAST 80 SQUARE FEET.

B) SOLAR READY ROOF AREA REQUIREMENT PER BUILDING SIZE:

Building size	Roof Area		minimum solar zone area
	Building area (sf)	Max. potential overhang (sf)	total (sf)
344 x 40	860	560	1916
361 x 40	1440	744	2184
601 x 40	2400	1128	3528
721 x 40	2880	1320	4200
841 x 40	3360	1524	4884
961 x 40	3840	1728	5568
1081 x 40	4320	1932	6252
1201 x 40	4800	2088	6888

C) MINIMUM SOLAR ZONE AREA BASED ON POTENTIAL SOLAR ZONE (SHADED CONDITIONS):

- THE MINIMUM REQUIRED SOLAR ZONE AREA MAY BE REDUCED IF THE BUILDING SITE IS SHADED BY OBJECTS
THAT ARE NOT PART OF THE BUILDING ITSELF AND THERE IS NO UN-SHADED AREA THAT COULD ACCOMMODATE
THE FULL SOLAR ZONE.
- THE POTENTIAL SOLAR ZONE IS DEFINED AS THE TOTAL AREA ON ROOF, OVERHANG, ROOF OR OVERHANG OF A
STRUCTURE WITHIN 250 FEET OF THE BUILDING, OR ON A COVERED PARKING STRUCTURE INSTALLED WITH THE
BUILDING THAT HAS ANNUAL SOLAR ACCESS OF 70 PERCENT OR GREATER.
- IF THE POTENTIAL SOLAR ZONE IS SMALLER THAN 15 PERCENT OF THE ROOF AREA OF THE BUILDING EXCLUDING
ANY SKYLIGHTS, THEN THE SOLAR ZONE CAN BE REDUCED TO HALF THE AREA OF THE POTENTIAL SOLAR ZONE.
IF THE ROOF IS SHADED SUCH THAT THERE IS NO POTENTIAL SOLAR ZONE AREA, THEN NO SOLAR ZONE IS
REQUIRED.

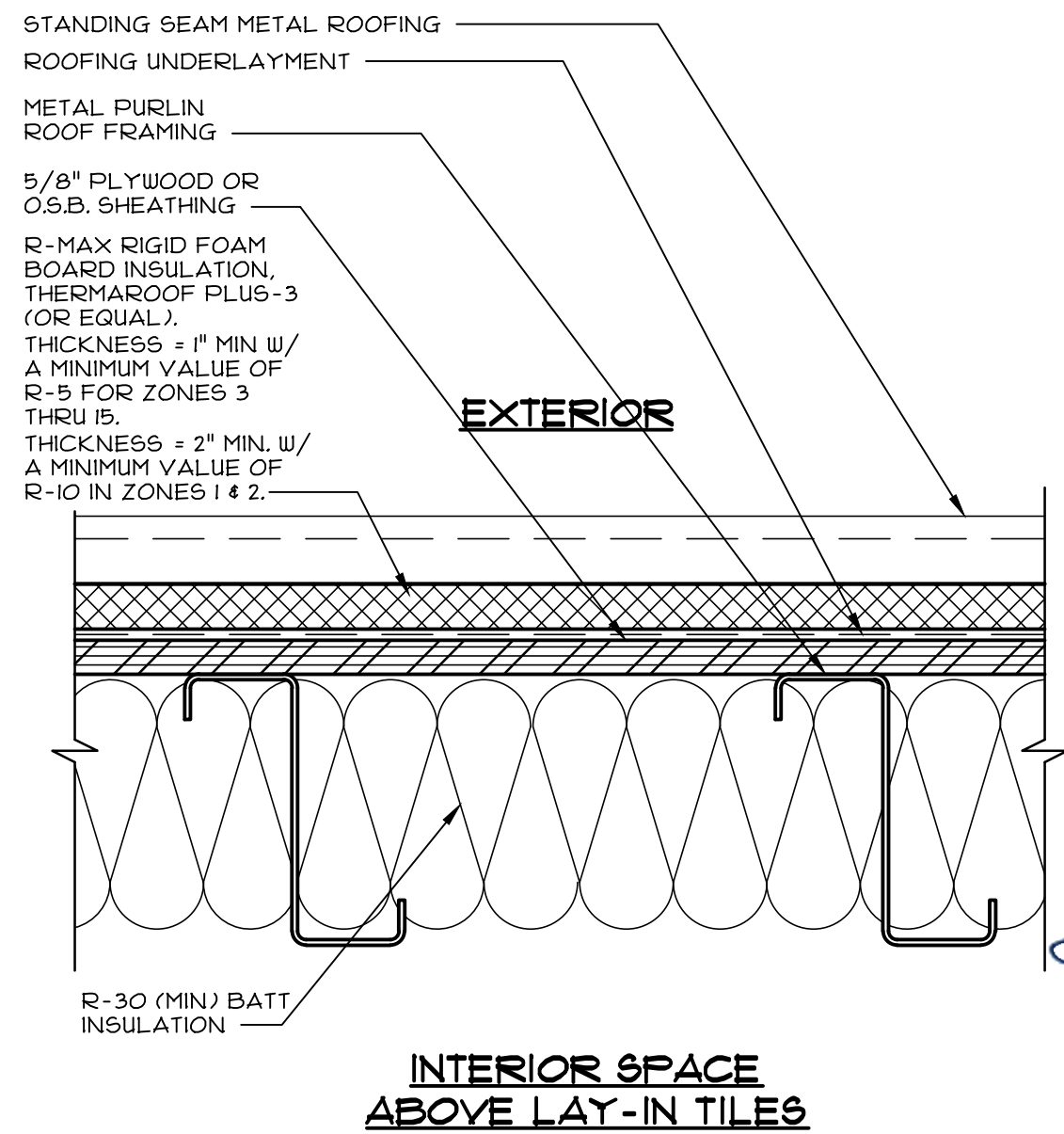
D) SOLAR ZONE ORIENTATION:

- IF THE SOLAR ZONE IS LOCATED ON A STEEP-SLOPED ROOF WITH A RATIO OF RISE TO RUN OF GREATER THAN
2:12, THEN THE ROOF MUST BE ORIENTED BETWEEN 110 DEGREES AND 270 DEGREES OF TRUE NORTH.
- IF A SOLAR ZONE IS LOCATED ON A LOW-SLOPED ROOF WITH A RATIO OF RISE TO RUN
LESS THAN 2:12, THE ORIENTATION REQUIREMENTS DO NOT APPLY.
- OBSTRUCTIONS SUCH AS VENTS, CHIMNEYS, ARCHITECTURAL FEATURES, OR ROOF MOUNTED EQUIPMENT
CANNOT BE LOCATED IN THE SOLAR ZONE. THIS REQUIREMENT IS IN PLACE SO THE SOLAR ZONE REMAINS CLEAR
AND OPEN FOR THE FUTURE INSTALLATION OF A SOLAR ENERGY SYSTEM.

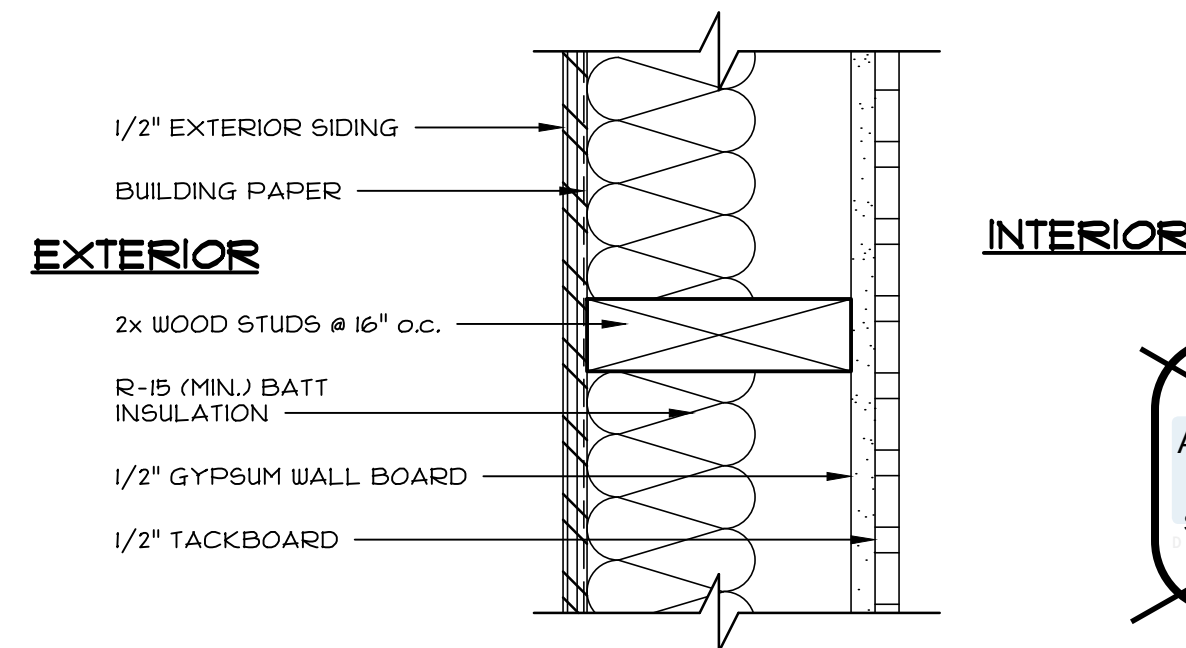
E) ALTERNATIVE SOLAR ZONE LOCATION:

- THE SOLAR ZONE CAN BE LOCATED AT ANY OF THE FOLLOWING LOCATIONS, ROOF OF ANOTHER STRUCTURE
LOCATED WITHIN 250 FEET OF THE PRIMARY BUILDING, OVERHANG OF ANOTHER STRUCTURE WITHIN 250 FEET OF
THE PRIMARY BUILDING, OR COVERED PARKING INSTALLED WITH THE BUILDING PROJECT.

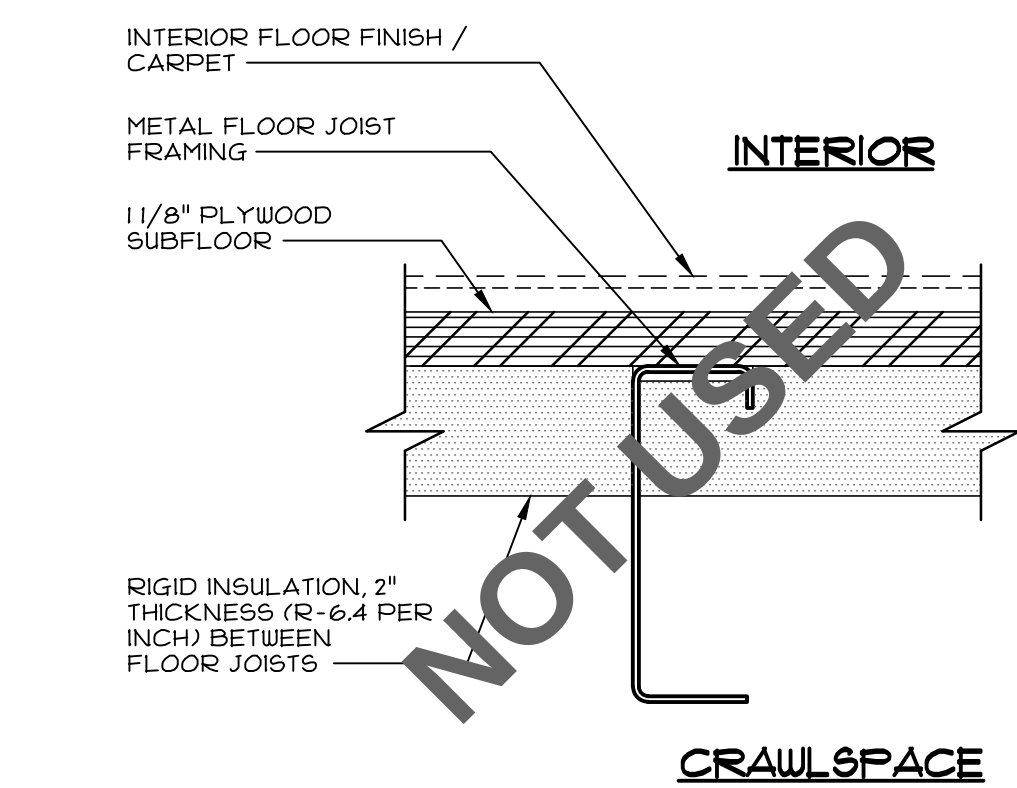
- F) SOLAR PANELS ARE NOT TO EXCEED 4.0 PSF AND ARE NOT TO OCCUR ON BUILDING OVERHANGS.
SOLAR PANELS MUST BE INACCESSIBLE PER CBC 1607A.13.5.



1 TYP. ENVELOPE - ROOF
SCALE: 3\"/>



2 TYP. ENVELOPE - WALL
SCALE: 3\"/>



3 TYP. ENVELOPE - FLY. FLOOR
SCALE: 3\"/>

PRE-CHECK (PC) DOCUMENT
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A separate project application for
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09/15/2022
04/29/2022
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GREEN BUILDING
STANDARDS

REV	DATE	BY
JOB No.:		
DRAWN BY:		
DATE:		

AGB

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04162021-6384 Report Generated at: 2021-06-03 13:34:59

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CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04162021-6184 Report Generated at: 2021-06-03 13:34:59

Performance Runs and Orientation Table				
PC Design Review Information		2019 Title 24, Part 6, Energy Code		
Date of Title 24 Report: 6/6/2021		DSA Application: 02-119499		
Model Name and Option: 36x40		DSA File No: PC-012		
Total Floor Area: 1440		DSA-1 Submittal Date:		
HVAC System Type: SPVHP - (2) Bard wall mount, 3.5 ton, 10 kw heat strip, no econ				
Climate Zone (Reference City)	Altitude (Front Orientation)	TDPV-Proposed Design	TDPV-Standard Design	Compliance Margin (%)
14 (Palmdale)	30	467.02	560.8	19.4
	75	467.91	565.27	19.5
	120	466.61	561.61	19.6
	165	464.32	570.98	21.0
	210	467.20	579.62	22.2
	255	469.43	584.64	22.7
	300	468.83	581.82	22.4
16 (Blue Canyon)	345	465.63	569.92	21.1
	30	484.94	533.56	10.5
	75	484.9	537.76	11.4
	120	484.18	533.74	10.7
	165	482.96	518.80	8.0
	210	483.95	526.18	9.3
	255	485.46	529.68	9.7
300	485.9	528.91	9.4	
	345	484.66	520.1	7.5
	HVAC System Type: SPVHP - (2) Bard wall mount, 4.0 ton, 4 kw heat strip, no econ			
15 (Palm Springs-Int'l)	30	510.96	640.44	22.3
	75	510.39	646.42	22.3
	120	512.23	643.28	23.1
	165	509.51	634.21	22.3
	210	511.94	638.4	22.5
	255	514.31	641.82	22.5
	300	513.35	639.05	22.3
345	509.43	632.4	22.3	

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Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 10 of 13
Project Address:	CZ 16 (reference city - Blue Canyon)	Calculation Date/Time:	13:34, Thu, Jun 03, 2021
Input File Name:	03-115409_24x40 (CZ 16 - Blue Canyon)_V3.2 (RSGD FOAM CONTRIBUTION AND ENVELOPE) (06/03/2021)		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04162021-6384 Report Generated at: 2021-06-03 13:34:59

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 11 of 13
Project Address:	CZ 16 (reference city - Blue Canyon)	Calculation Date/Time:	13:34, Thu, Jun 03, 2021
Input File Name:	03-115409_24x40 (CZ 16 - Blue Canyon)_V3.2 (RSGD FOAM CONTRIBUTION AND ENVELOPE) (06/03/2021)		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	
Note: Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be reviewed and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019Standards/2019_compliance_documents/Nonresidential_Documents/NRCC/	
Building Component	Form/Title
Envelope	NRCC-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCC-MCH-01-E - Must be submitted for all buildings
Indoor Lighting	NRCC-LI-01-E - Must be submitted for all buildings

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04162021-6384 Report Generated at: 2021-06-03 13:34:59

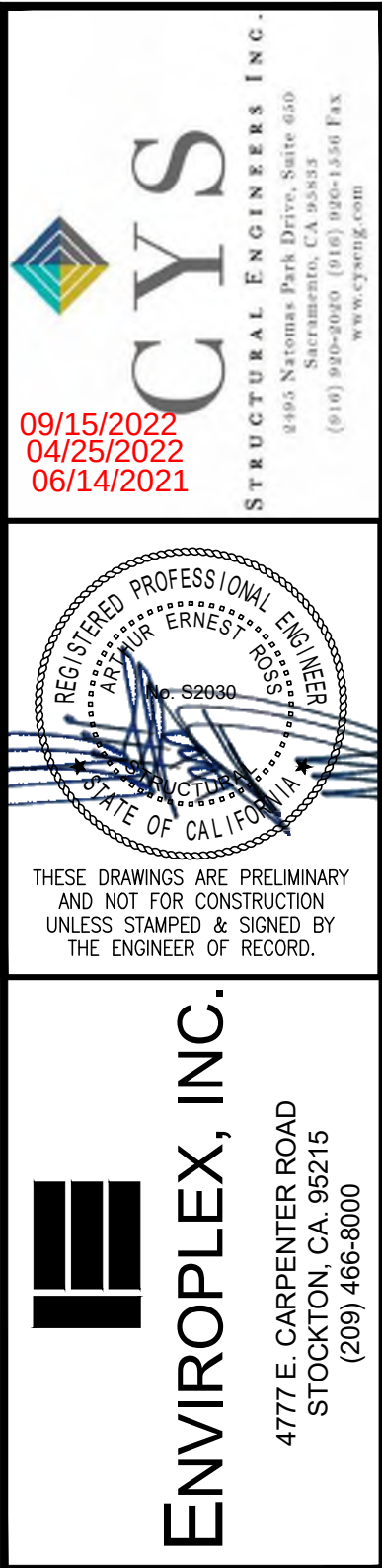
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Project Address:	CZ 16 (reference city - Blue Canyon)	Calculation Date/Time:	13:34, Thu, Jun 03, 2021
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M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
Note: Instructions: Selections shall be made by Documentation Author to 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 (ATTC). For more information visit: https://www.energy.ca.gov/title24/2019Standards/2019_compliance_documents/Nonresidential_Documents/NRCA/	
Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NFRC label verification for fenestration
Indoor Lighting	NRCA-LI-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

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04162021-6384 Report Generated at: 2021-06-03 13:34:59

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 13 of 13
Project Address:	CZ 16 (reference city - Blue Canyon)	Calculation Date/Time:	13:34, Thu, Jun 03, 2021
Input File Name:	03-115409_24x40 (CZ 16 - Blue Canyon)_V3.2 (RSGD FOAM CONTRIBUTION AND ENVELOPE) (06/03/2021)		
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that the Certificate of Compliance documentation is accurate and complete.			
Documentation Author Name: Luis Esquivel	Signature:		
Company: Enviroplex, Inc.	Signature Date: 2021-06-03		
Address: 4777 E. Carpenter Road	City/State/Zip: Stockton CA 95215	CA/NRCC Certification Identification (if applicable): 640557	
Phone: 209-466-8000			
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 9 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1, and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and shall be 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 Envelope Designer Name: Luis Esquivel	Signature:		
Company: Enviroplex, Inc.	Date Signed: 6/3/2021	Title:	License #: 640557
Address: 4777 E. Carpenter Road	City/State/Zip: Stockton CA 95215		
Phone: (209) 466-8000			
Responsible Lighting Designer Name: Luis Esquivel	Signature:		
Company: Enviroplex, Inc.	Date Signed: 6/3/2021	Title:	License #: 640557
Address: 4777 E. Carpenter Road	City/State/Zip: Stockton CA 95215		
Phone: (209) 466-8000			
Responsible Mechanical Designer Name: Luis Esquivel	Signature:		
Company: Enviroplex, Inc.	Date Signed: 6/3/2021	Title:	License #: 640557
Address: 4777 E. Carpenter Road	City/State/Zip: Stockton CA 95215		
Phone: (209) 466-8000			

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04162021-6384 Report Generated at: 2021-06-03 13:34:59



STANDARD ELEMENTARY
SCHOOL
STANDARD SCHOOL
DISTRICT

ENERGY COMPLIANCE

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	
EN2	

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

Outdoor Lighting		CALIFORNIA ENERGY COMMISSION	
NICC/CES		NICC/CES	
CERTIFICATE OF COMPLIANCE		NICC/CES ID:	
Project Name:	Standard 260412-14 Report Page:	Project Name:	
Project Address:	CE 15-Page Progress:	Project Address:	
		CE 15-Page Progress:	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Signature:		[Signature]	
Licenses:		[Signature]	
Date:		4/14/2020	
City/State/Zip:		CEA/HSE Certification Identification (if applicable)	
Phone:		209-466-8000	
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I verify 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 have obtained the necessary permits and/or approvals for the building design or system design identified on this Certificate of Compliance (as applicable) to the jurisdiction.			
3. The energy features and performance specifications, materials, components, and manufactured devices or building design or system design identified on this Certificate of Compliance conform to the requirements of the California Building Code and 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, and specifications submitted by the respondent agency to the building permit and made available to the enforcement agency at all applicable locations. I understand that the completed signed copy of this Certificate of Compliance is required to be included with the documentation submitted with the documentation.			
5. I understand that the completed signed copy of this Certificate of Compliance is required to be included with the documentation submitted with the documentation.			
Responsible Designer Name:		Responsible Designer Signature:	
Licenses:		[Signature]	
Date:		4/14/2020	
City/State/Zip:		CEA/HSE Certification Identification (if applicable)	
Phone:		209-466-8000	

**OFFICE OF CALIFORNIA
Outdoor Lighting**
REC-004

CERTIFICATE OF COMPLIANCE

Project Name: Standard 24x40 PC Report Page: 1

Project Address: C2 10000 Prepared: 4/13/2018

CALIFORNIA ENERGY COMMISSION
REC-004

(Page 5 of 7)

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL
This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This table includes areas using the wattage allowance per specific area from Table 160.7.8. More than one specific area allowance may be taken in a single project, if applicable.
(However, multiple specific area allowances may not be taken for the exact same area on the site.)

G1	G2	CALCULATED ALLOWANCE (Watts)				DESIGN WATTS				Additional Allowance (Watts)
Area Description	Specific Area Type per Table 160.7.8	Specific Area (sq-ft)	Allowed Density (W/ft ²)	Extra Allowance (W/ft ²)	Luminaires Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts		
Outdoor Lighting	Building/Grade	900	0.17	165.2		8	13	1	13	13
Total Design Watts for this Area(s)										
Total Allowance (Watts) All Areas									13	

¹ FOOTNOTES: See Table 160.7.8 for rules for calculating the specific areas (ft²) for these additional lighting allowances.
² For luminaires indicated in Table 1 as linear, wattage in column G7 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column G8 instead of number of luminaires.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This section does not apply to this project.

DATE OF COMPLETION: Outdoor Lighting NRC-014		CALIFORNIA ENERGY CONSERVATION NRC-014-3							
CERTIFICATE OF COMPLIANCE		Standard 24x60 CP Report Page:		Page 3 of 7					
Project Name:		Standard 24x60 CP Report Page:		Page 3 of 7					
Project Address:		C 19 Date Prepared:		4/14/2020					

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §150.07, all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the table below. For altered lighting systems using the Existing Power method per §151.03(b)(3), only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e., existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10		
Name or Item #	Complete Luminaire Description	Watts per luminaire ¹	How is Wattage determined?	Total number luminaires ²	Luminaire Status ³	Excluded per <u>§150.07(a)</u>	Design Watts	Cutoff Req. ⁴ 6-2000 initial lumens output <u>§150.07(a)</u>	Field Inspector		
B	LI 13w Compact Fluorescent Twin 2 Fps	13	Linear	13	MR, Spec	1	New	13	NA < 6200 lumens	Pass	Fail
Total Design Watts:								13			

¹ NOTES: Selections with * require a note in the space below explaining how compliance is achieved.
² For luminaires in lighting of a structure, EXCEPTED 2 to §150.07(b)

³ FOOTNOTES: Authority having jurisdiction may opt for Luminaires that share to confirm wattage and for compliance per §150.06(a)
⁴ For linear luminaires, wattage should be indicated as W/ft instead of items/luminaire. Total linear feet should be indicated in column 10 instead of number of luminaires.
⁵ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Replaced" for existing luminaires which are being removed and replaced by the same or equivalent.

⁶ Compliance with mandatory cutoff requirements is required for luminaires with initial lumens output >= 6,200 lumens exempted by §150.07(a)

G. CUTOFF REQUIREMENTS (WGS)	
This section does not apply to this project.	

Registration Number:

Registration Date/Time:

CAL Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Generated: 2020-04-14 16:18

Schemas Version: ver 20200401

DATE OF COMPLETION: Outdoor Lighting NRC-014		CALIFORNIA ENERGY CONSERVATION NRC-014-3							
CERTIFICATE OF COMPLIANCE		Standard 24x60 CP Report Page:		Page 6 of 7					
Project Name:		Standard 24x60 CP Report Page:		Page 6 of 7					
Project Address:		C 19 Date Prepared:		4/14/2020					

G. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have 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 at http://www.energy.ca.gov/title24/2019/standards/2019_compliance_documents/Nonresidential_Document/NRC014

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
☒	☐	NRC-1TD-01-E - Must be submitted for all buildings	☒	☐
☒	☐	NRC-1TD-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☒	☐

H. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have 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 must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/2019/standards/2019_compliance_documents/Nonresidential_Document/NRC014

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
☒	☐	NCA-1TD-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☒	☐

Registration Number:

Registration Date/Time:

CAL Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Generated: 2020-04-14 16:18

Schemas Version: ver 20200401

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STATE OF CALIFORNIA
Electrical Power Distribution
NRC-ELC-E
CALIFORNIA ENERGY COMMISSION
NRC-ELC-E
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §145.0(a) or §145.0(b)(2) for alterations.
Project Name: Standard 24x40 PC Report Page: (Page 3 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

A. GENERAL INFORMATION
01 Project Location (city): [reference city - Blue Canyon] 02 Occupancy Types Within Project:
☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Healthcare ☐ Healthcare Facilities ☒ Other (write in): See Table 1

B. PROJECT SCOPE
This table includes electrical systems that are within the scope of the permit application.
01 Electrical Service Designation/Description 02 Scope of Work¹ 03 Rating (kVA) 04 Utility Provided Metering System Exception to §130.5(a)² 05 System subject to CA Elec Code Article 317 Exception to §130.5(a)(a) and (b)
Panel A New electrical service equipment and meter 19 ☐ ☐
06 Demand Response Controls Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards-based messaging protocol which enables demand response after receiving a demand response signal. Sections §130.2, §130.3, and §130.3 and compliance documents NRC-MCH, NRC-CTI and NRC-ITS will indicate when demand response controls are required.

FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop §130.5(c), no other requirements from §130.5 are required.
¹ Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

C. COMPLIANCE RESULTS
Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.
01 Service Electrical Monitoring §130.5(a) (See Table F) 02 Separation for Monitoring §130.5(b) (See Table G) 03 Voltage Drop §130.5(c) (See Table H) 04 Controlled Receptacles §130.5(d) (See Table I) 05
Yes AND Yes AND Yes AND Yes AND Yes COMPLIES

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.0.001 Schema Version: rev 20190401 Registration Provider: Energysoft Report Generated: 2020-04-14 14:32:52

STATE OF CALIFORNIA
Electrical Power Distribution
NRC-ELC-E
CALIFORNIA ENERGY COMMISSION
NRC-ELC-E
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §145.0(a) or §145.0(b)(2) for alterations.
Project Name: Standard 24x40 PC Report Page: (Page 4 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

L. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES
This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.
01 Room name or Description 02 Location/Type of Controlled Receptacles 03 Shut-Off Controls 04 Permanent Durable Marking Will be Used 05 Location of Requirements in Construction Documents 06 Field Inspector
Panel A NA: No applicable space types on this service. Other* ☒ N/A ☐ ☐
*NOTES: If "Other" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.
Panel A N/A - classroom occupancy

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have 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 at: https://www.energy.ca.gov/nrc/24/2019standards/2019_compliance_documents/nonresidential_documents/NRC/

Yes No Form/Title Field Inspector
Pass Fail
1 2 NRC-ELC-E - Must be submitted for all buildings ☐ ☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no Certificates of Acceptance applicable to electrical power distribution requirements.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.0.001 Schema Version: rev 20190401 Registration Provider: Energysoft Report Generated: 2020-04-14 14:32:52

STATE OF CALIFORNIA
Electrical Power Distribution
NRC-ELC-E
CALIFORNIA ENERGY COMMISSION
NRC-ELC-E
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §145.0(a) or §145.0(b)(2) for alterations.
Project Name: Standard 24x40 PC Report Page: (Page 5 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table is included remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING
This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a).
01 Electrical Service Designation/Description 02 Rating (kVA) 03 Required Metering Capabilities per Table 130.5.4
Instantaneous Demand (kW) Historical Peak Demand (kW) Tracking kWh for user-defined period kWh per rate period 04 Location of Requirements in Construction Documents 05 Field Inspector
Panel A 19 ☐ ☒ ☒ ☒ ☐ A3 ☐ ☐

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.0.001 Schema Version: rev 20190401 Registration Provider: Energysoft Report Generated: 2020-04-14 14:32:52

STATE OF CALIFORNIA
Electrical Power Distribution
NRC-ELC-E
CALIFORNIA ENERGY COMMISSION
NRC-ELC-E
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §145.0(a) or §145.0(b)(2) for alterations.
Project Name: Standard 24x40 PC Report Page: (Page 6 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Luis Esquivel
Signature Date: 4/14/2020
Company: Enviroplex, Inc.
Address: 4777 E. Carpenter Road
City/State/Zip: Stockton, CA 95215 Phone: 209-466-8000

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 1 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for this building, and made available to the enforcement agency for all applicable inspections. I understand that a complete signed copy of this Certificate of Compliance is required to be included with the documents submitted to the building permit(s) at occupancy.
Responsible Designer Name: Luis Esquivel Responsible Designer Signature: [Signature]
Company: Enviroplex, Inc. Date Signed: 2020-04-14
Address: 4777 E. Carpenter Road License: 640572
City/State/Zip: Stockton, CA 95215 Phone: 209-466-8000

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.0.001 Schema Version: rev 20190401 Registration Provider: Energysoft Report Generated: 2020-04-14 14:32:52

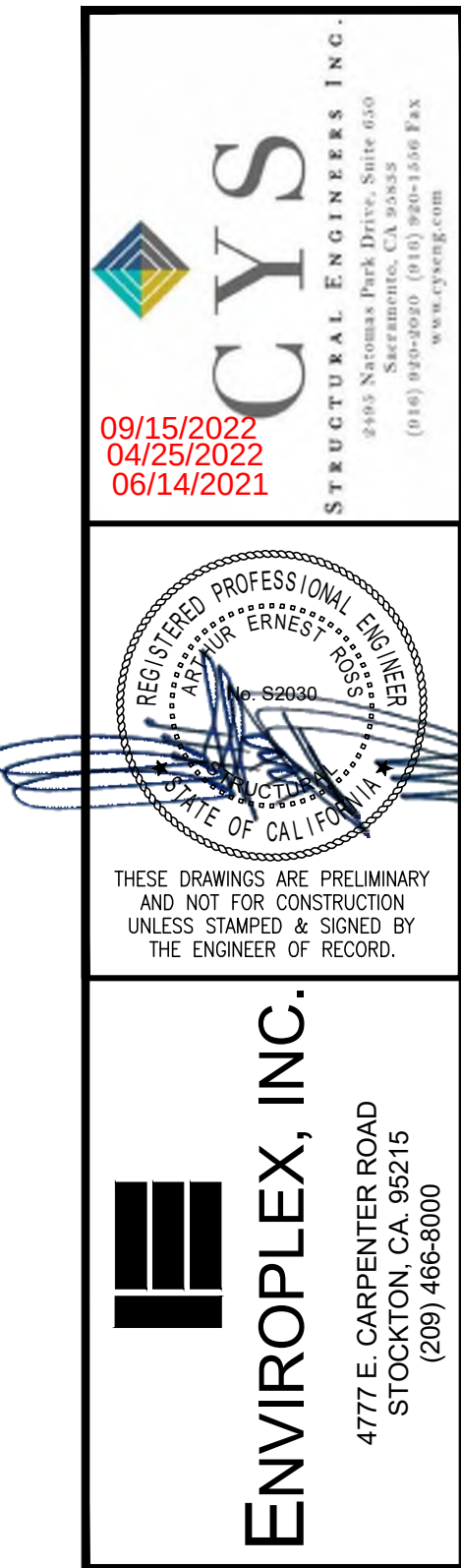
STATE OF CALIFORNIA
Electrical Power Distribution
NRC-ELC-E
CALIFORNIA ENERGY COMMISSION
NRC-ELC-E
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §145.0(a) or §145.0(b)(2) for alterations.
Project Name: Standard 24x40 PC Report Page: (Page 3 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING
This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Any load types that are not included in the service do not need to be shown.
01 Load Type per Table 130.5-4.¹ 02 Minimum Required Separation of Load per Table 130.5-8 03 Compliance Method² 04 Location of Requirements in Construction Documents 05 Field Inspector
Pass Fail
Panel A Lighting including exit, egress and exterior HVAC systems and components not required Method 3 N/A ☐ ☐
Plug Loads and appliances less than 25kVA not required Method 3 N/A ☐ ☐
*NOTES: If "Other" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.
FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
Method 1: Switchboards/motor control centers/junction boxes disassembled for each load type.
Method 2: Switchboards/motor control centers/junction boxes disassembled for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system (meters and relays) installed by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP
This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §145.0(b)(2).
01 Electrical Service Designation/Description 02 Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method 03 Location of Voltage Drop Calculations³ 04 Sheet Number for Voltage Drop Calculations in Construction Documents 05 Field Inspector
Pass Fail
Panel A ☒ Voltage drop less than 3% ☐ Permitted by CA Elec Code Exception to §130.5(c)⁴ In construction documents N/A ☐ ☐

*NOTES: If "Permitted by CA Elec Code" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.
FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Registration Date/Time: Report Version: 2019.0.001 Schema Version: rev 20190401 Registration Provider: Energysoft Report Generated: 2020-04-14 14:32:52



STANDARD ELEMENTARY
SCHOOL
STANDARD SCHOOL
DISTRICT

ENERGY COMPLIANCE
CLIMATE ZONES 1-16

REV / DATE: BY:
JOB No.:
DRAWN BY:
DATE:

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for
construction is required.

STATE OF CALIFORNIA
Indoor Lighting
NRCCL-114 (01/01/2021)
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with requirements in §160.5, §160.12(c), §160.6, §160.1, §160.6, and §161.03(a) for indoor lighting scopes using the prescriptive path.
Project Name: Standard 12x40 PC Restroom module (unconditioned space) Report Page: 1 of 6
Project Address: CZ 16 Date Prepared: 2/24/2021

A. GENERAL INFORMATION

G1 Project Location (city) (reference city - Blue Canyon) G4 Total Conditioned Floor Area (ft²) 0
G2 Climate Zone 16 G5 Total Unconditioned Floor Area (ft²) 480
G3 Occupancy Types Within Project (select all that apply): 06 # of Stories (habitable Above Grade) 1
☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☒ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☒ Relocatable ☐ Healthcare ☐ Other (write in):

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §160.6 or §161.03(a) for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "New A/C".

Scope of Work

Conditioned Spaces	Unconditioned Spaces
Calculation Method	Calculation Method
Area (ft ²)	Area (ft ²)

My Project Consists of (check all that apply):
☒ New Lighting System
☐ Altered Lighting System

Total Area of Work (ft²) 480

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Allowed Lighting Power per §160.6(b) (Watts)				Adjusted Lighting Power per §160.6(a) (Watts)				Compliance Results
G1	G2	G3	G4	G5	G6	G7	G8	G9
Lighting in conditioned and unconditioned spaces must not be combined for compliance per §160.6(b)(5).	Complete Building	Area Category	Area Category Additional	Tailored	Total	Adjustments	Total Adjusted	09 Must be 0.8
	§160.6(b)(1)	§160.6(b)(2)	§160.6(b)(3)	(+)	(Watts)	(Credits)	(Watts)	
	(See Table I)	(See Table I)	(See Table I)	(See Table K)		(See Table F)	(See Table F)	
Unconditioned:	312				2			
Conditioned:					2			
Table Continued					312	2	157	
								COMPLIES

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <https://www.energy.ca.gov/010004/2019standards> January 2020

STATE OF CALIFORNIA
Indoor Lighting
NRCCL-114 (01/01/2021)
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with requirements in §160.5, §160.12(c), §160.6, §160.1, §160.6, and §161.03(a) for indoor lighting scopes using the prescriptive path.
Project Name: Standard 12x40 PC Restroom module (unconditioned space) Report Page: 2 of 6
Project Address: CZ 16 Date Prepared: 2/24/2021

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with available comments because of selections made or data entered in tables throughout the form.

Table H Indoor Lighting Controls Permit Applicant Notes:
Restrooms: Exception 4 to §160.6(d) total glazing area is less than 24 sq.ft.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

G1	G2	G3	G4	G5	G6	G7	G8	G9	G10
Name or Item Tag	Complete Luminaire Description	Modular	Small Aperture	Watts per luminaire	How Wattage is Determined	Total number luminaires	Exempt per §160.6(a)(3)	Design Watts	Field Inspector
A	2x4 LED 20TL recessed troffer light			59	Mfr. Spec	2		118	
B	2x4 LED 20TL recessed troffer light			39	Mfr. Spec	1		39	
Total Designed Watts UNCONDITIONED SPACES:							157		

G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <https://www.energy.ca.gov/010004/2019standards> January 2020

STATE OF CALIFORNIA
Indoor Lighting
NRCCL-114 (01/01/2021)
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with requirements in §160.5, §160.12(c), §160.6, §160.1, §160.6, and §161.03(a) for indoor lighting scopes using the prescriptive path.
Project Name: Standard 12x40 PC Restroom module (unconditioned space) Report Page: 3 of 6
Project Address: CZ 16 Date Prepared: 2/24/2021

Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Building Level Controls

G1	G2	G3
Mandatory Demand Response §160.12(c)	Shut Off Controls §160.12(c)	Field Inspector Pass Fail

Area Level Controls

G4	G5	G6	G7	G8	G9	G10	G11	G12
Area Description	Complete Building or Area Category	Area Controls §160.12(a)	Multi-Level Controls §160.12(b)	Shut Off Controls §160.12(c)	Primary/Skylight Daylighting §160.12(d)	Secondary Daylighting §160.12(e)	Interlocked Systems §160.12(f)	Field Inspector
Restrooms	School Building	Manual ON/OFF	Dimmer	Occ. Sensor	Exempt*	NA		Pass Fail

NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
IX Conference 2: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting.
EXCEPTION 2 to §160.12(d)

Restrooms: Exception 4 to §160.12(d) total glazing area is less than 24 sq.ft.

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §160.6(b). Indicate if additional lighting power allowances per §160.6(c) or adjustments per §160.6(a) are being used.

G1	G2	G3	G4	G5	G6
Area Description	Complete Building or Area Category	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowances / Adjustments
Restrooms	School Building	0.65	480	312	
TOTAL:				480	312

See Tables I or F for detail

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <https://www.energy.ca.gov/010004/2019standards> January 2020

STATE OF CALIFORNIA
Indoor Lighting
NRCCL-114 (01/01/2021)
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Project Name: Standard 12x40 PC Restroom module (unconditioned space) Report Page: 4 of 6
Project Address: CZ 16 Date Prepared: 2/24/2021

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This Section Does Not Apply

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This Section Does Not Apply

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS

This Section Does Not Apply

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <https://www.energy.ca.gov/010004/2019standards> January 2020

STATE OF CALIFORNIA
Indoor Lighting
NRCCL-114 (01/01/2021)
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with requirements in §160.5, §160.12(c), §160.6, §160.1, §160.6, and §161.03(a) for indoor lighting scopes using the prescriptive path.
Project Name: Standard 12x40 PC Restroom module (unconditioned space) Report Page: 5 of 6
Project Address: CZ 16 Date Prepared: 2/24/2021

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://web2.energy.ca.gov/010004/2019standards/2019_standards_documentation/Nonresidential_Documentation.

YES	NO	Form/Title	Field Inspector
☒	☐	NRCL-171-01-E - Must be submitted for all buildings	Pass Fail
☐	☒	NRCL-171-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	Pass Fail
☐	☒	NRCL-171-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	Pass Fail
☐	☒	NRCL-171-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	Pass Fail
☐	☒	NRCL-171-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	Pass Fail

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/010004/2019standards>

YES	NO	Form/Title	Field Inspector
☒	☐	NRCL-171-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Pass Fail
☐	☒	NRCL-171-03-A - Must be submitted for automatic daylight controls.	Pass Fail
☐	☒	NRCL-171-04-A - Must be submitted for demand responsive lighting controls.	Pass Fail
☐	☒	NRCL-171-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	Pass Fail
☐	☒	NRCL-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	Pass Fail

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <https://www.energy.ca.gov/010004/2019standards> January 2020

STATE OF CALIFORNIA
Indoor Lighting
NRCCL-114 (01/01/2021)
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with requirements in §160.5, §160.12(c), §160.6, §160.1, §160.6, and §161.03(a) for indoor lighting scopes using the prescriptive path.
Project Name: Standard 12x40 PC Restroom module (unconditioned space) Report Page: 6 of 6
Project Address: CZ 16 Date Prepared: 2/24/2021

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Luis Esquivel
Company: Enviroplex, Inc.
Address: 4777 E. Carpenter Road
City/State/Zip: Stockton, CA 95215
Signature Date: 2/24/2021
Signature: [Signature]
CEA/HERS Certification Identification (if applicable): 2094668000
Phone: 2094668000

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 9 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

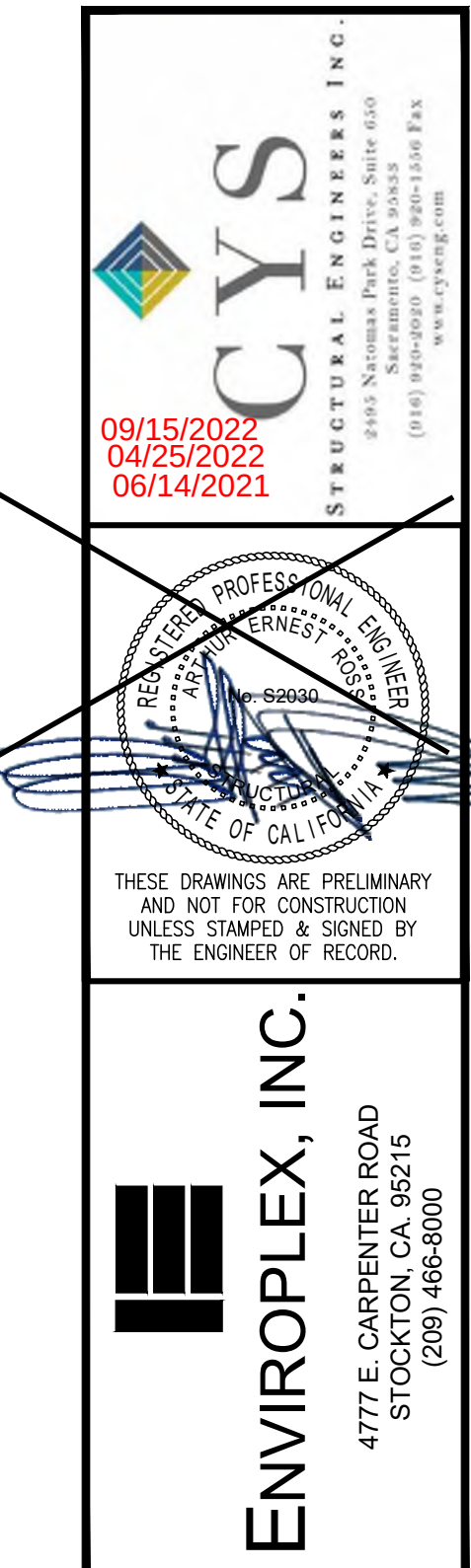
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Luis Esquivel
Company: Enviroplex, Inc.
Address: 4777 E. Carpenter Road
City/State/Zip: Stockton, CA 95215
Signature Date: 2/24/2021
Signature: [Signature]
CEA/HERS Certification Identification (if applicable): 2094668000
Phone: 2094668000

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <https://www.energy.ca.gov/010004/2019standards> January 2020



PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

STANDARD ELEMENTARY SCHOOL
STANDARD SCHOOL DISTRICT

ENERGY COMPLIANCE

REV / DATE: BY:

JOB No.:
DRAWN BY:
DATE:

EN5

24"x40" TO 120"x60" P.C.

STATE OF CALIFORNIA
NRCC-CXLR-4
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION
NRCC-CXLR-4
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with mandatory commissioning requirements in §120.8 for nonresidential buildings and hotels/motels or mixed-use buildings with nonresidential spaces. This document does not demonstrate compliance with commissioning requirements within Title 24, Part 11, which need to be documented separately if they apply.
Project Name: Standard 24x40 PC Report Page: (Page 3 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

A. GENERAL INFORMATION

01	Project Location (city)	[reference city - Blue Canyon]	04	Building Size (ft²)	560
02	Occupancy Type	Nonresidential	05	Nonresidential Conditioned Floor Area (ft²)	< 10,000 ft²
03	Project Type	Newly constructed	06	HVAC System Type	Unitary or packaged equipment each serving one zone

B. PROJECT SCOPE

Based on project information provided in Table A, Table B indicates which commissioning related requirements apply per §120.8. Table B is not editable by the user.

Commissioning Requirements per §120.8			
01	Table F: Design Review Kickoff	§120.8(b)(1) and §120.8(d)(2)	The design review kickoff meeting establishes who will play the role of the design reviewer, the project schedule and identify owner's requirements. This meeting should be conducted during schematic design.
02	Table G: Owner's Project Requirements (OPR)	§120.8(d)(2)	This requirement does not apply.
03	Table H: Basis of Design (BOD)	§120.8(d)(3)	This requirement does not apply.
04	Table I: Design Review	§120.8(d)(4) and §120.8(d)(5)	The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and commissioning process. For projects with >= 10,000 ft² of nonresidential conditioned floor area the design review is for adherence with the Owner's Project Requirements (OPR) and Basis of Design (BOD). This should be conducted during design.
05	Table J: Commissioning Plan	§120.8(d)(6)	This requirement does not apply.
06	Table K: Functional Performance Testing	§120.8(d)(7)	This requirement does not apply.
07	Table L: Documentation and Training	§120.8(d)(8)	This requirement does not apply.
08	Table M: Commissioning Report	§120.8(d)(9)	This requirement does not apply.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001
Registration Provider: Energysoft
Schema Version: rev 20190401
Report Generated: 2020-04-14 13:56:36

STATE OF CALIFORNIA
NRCC-CXLR-4
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION
NRCC-CXLR-4
CERTIFICATE OF COMPLIANCE
Standard 24x40 PC Report Page: (Page 4 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per §120.8. This table is not editable by the user. If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D for guidance.

01	02	03	04	05	06	07	08	09
Design Kickoff Review	Owner's Project Requirements	Basis of Design	Design Review	Commissioning Plan	Functional Performance Testing	Documentation and Training	Commissioning Report	Compliance Results
Table F	Table G	Table H	Table I	Table J	Table K	Table L	Table M	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	COMPLIES
Design Review(s) for the project include:								COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001
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STATE OF CALIFORNIA
NRCC-CXLR-4
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION
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CERTIFICATE OF COMPLIANCE
Standard 24x40 PC Report Page: (Page 4 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

F. DESIGN REVIEW KICKOFF MEETING

This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)(2) and demonstrates compliance with design review kickoff requirements per §120.8(d)(2). This meeting should occur during the Schematic Design phase of the project.

01	Date of Design Review Kickoff Meeting	2020-04-07
02	Meeting Attendees: (one person may play multiple roles)	
03	Owner/Facility Manager:	Enviroplex, Inc.
04	Design Architect/Engineer(s):	Luis Esquivel
05	Design Architect/Engineer(s):	ART Ross
06	Contractor:	Dawit Peggans
07	Commissioning Provider:	Energy T24 Part 6 Consultant: Randy Shull

Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)(1)
The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.
Do the Design Reviewer(s) meet these qualifications? ☒ Yes ☐ No

03 In addition, for buildings with >= 10,000 ft² but < 50,000 ft², the design reviewer(s) shall be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect, or contractor.

04 The design reviewer(s) for this project will be: Luis Esquivel

Preliminary Construction Schedule	
	Completion Date
05 Schematic Design	2020-01-01
06 Design Development	2020-02-01
07 Construction Documents	2020-03-01
08 Construction	2021-01-01
09 Building Turnover	2021-02-01

Project Goals Related to Energy Efficiency

10 Operational Costs	
11 Desired Building Lifespan	
12 Equipment Lifecycle	
13 Project Energy Efficiency Goals	10% annual TDV energy use better than state minimum standard design
14 Envelope Goals	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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Registration Provider: Energysoft
Schema Version: rev 20190401
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STATE OF CALIFORNIA
NRCC-CXLR-4
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION
NRCC-CXLR-4
CERTIFICATE OF COMPLIANCE
Standard 24x40 PC Report Page: (Page 4 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

M. COMMISSIONING REPORT

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

There are no Certificates of Installation applicable to commissioning requirements.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Although there are no "CW" Certificates of Acceptance required to document commissioning requirements, Certificates of Acceptance may be used to supplement functional performance testing required by §120.8(d).

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001
Registration Provider: Energysoft
Schema Version: rev 20190401
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STATE OF CALIFORNIA
NRCC-CXLR-4
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION
NRCC-CXLR-4
CERTIFICATE OF COMPLIANCE
Standard 24x40 PC Report Page: (Page 4 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Luis Esquivel	
Company:	Signature Date: 4/14/2020
Enviroplex, Inc.	
Address:	CSA 1055 Certification Identification (if applicable):
4777 E. Carpenter Road	
Stockton CA 95215	Phone: 209-466-8000

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify that the information provided on this Certificate of Compliance is true and correct.

- 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 design).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1, and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit application and 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 building permit application and for the building, and made available to the building owner or occupant.

Responsible Designer Name:	Responsible Designer Signature:
Luis Esquivel	
Company:	Signature Date: 2020-04-14
Enviroplex, Inc.	
Address:	Phone: 209-466-8000
4777 E. Carpenter Road	
Stockton CA 95215	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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CALIFORNIA ENERGY COMMISSION
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Standard 24x40 PC Report Page: (Page 4 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

P. DESIGN REVIEW KICKOFF MEETING

This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)(2) and demonstrates compliance with design review kickoff requirements per §120.8(d)(2). This meeting should occur during the Schematic Design phase of the project.

01	Date of Design Review Kickoff Meeting	2020-04-07
02	Meeting Attendees: (one person may play multiple roles)	
03	Owner/Facility Manager:	Enviroplex, Inc.
04	Design Architect/Engineer(s):	Luis Esquivel
05	Design Architect/Engineer(s):	ART Ross
06	Contractor:	Dawit Peggans
07	Commissioning Provider:	Energy T24 Part 6 Consultant: Randy Shull

Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)(1)
The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.
Do the Design Reviewer(s) meet these qualifications? ☒ Yes ☐ No

03 In addition, for buildings with >= 10,000 ft² but < 50,000 ft², the design reviewer(s) shall be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect, or contractor.

04 The design reviewer(s) for this project will be: Luis Esquivel

Preliminary Construction Schedule	
	Completion Date
05 Schematic Design	2020-01-01
06 Design Development	2020-02-01
07 Construction Documents	2020-03-01
08 Construction	2021-01-01
09 Building Turnover	2021-02-01

Project Goals Related to Energy Efficiency

10 Operational Costs	
11 Desired Building Lifespan	
12 Equipment Lifecycle	
13 Project Energy Efficiency Goals	10% annual TDV energy use better than state minimum standard design
14 Envelope Goals	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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STATE OF CALIFORNIA
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Standard 24x40 PC Report Page: (Page 4 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

G. OWNER'S PROJECT REQUIREMENTS (OPR)

This section does not apply to this project.

H. BASIS OF DESIGN (BOD)

This section does not apply to this project.

I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST

This table is only completed if a design review document is not attached to permit application to demonstrate compliance with §120.8(d)(4) and §120.8(d)(5). For buildings with >= 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G) and the Basis of Design Documents (Table H). For buildings with < 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table I during the Design Review Kickoff.

01	Attaching Completed Design Review Documentation?	YES	NO
		☒	☐

J. COMMISSIONING PLAN

This section does not apply to this project.

K. FUNCTIONAL PERFORMANCE TESTING

This section does not apply to this project.

L. DOCUMENTATION AND TRAINING

This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001
Registration Provider: Energysoft
Schema Version: rev 20190401
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Standard 24x40 PC Report Page: (Page 4 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

M. COMMISSIONING REPORT

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

There are no Certificates of Installation applicable to commissioning requirements.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Although there are no "CW" Certificates of Acceptance required to document commissioning requirements, Certificates of Acceptance may be used to supplement functional performance testing required by §120.8(d).

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Registration Date/Time: Report Version: 2019.0.001
Registration Provider: Energysoft
Schema Version: rev 20190401
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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE
Standard 24x40 PC Report Page: (Page 4 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Luis Esquivel	
Company:	Signature Date: 4/14/2020
Enviroplex, Inc.	
Address:	CSA 1055 Certification Identification (if applicable):
4777 E. Carpenter Road	
Stockton CA 95215	Phone: 209-466-8000

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify that the information provided on this Certificate of Compliance is true and correct.

- 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 design).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1, and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit application and 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 building permit application and for the building, and made available to the building owner or occupant.

Responsible Designer Name:	Responsible Designer Signature:
Luis Esquivel	
Company:	Signature Date: 2020-04-14
Enviroplex, Inc.	
Address:	Phone: 209-466-8000
4777 E. Carpenter Road	
Stockton CA 95215	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001
Registration Provider: Energysoft
Schema Version: rev 20190401
Report Generated: 2020-04-14 13:56:36

STATE OF CALIFORNIA
NRCC-CXLR-4
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION
NRCC-CXLR-4
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Standard 24x40 PC Report Page: (Page 4 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

P. DESIGN REVIEW KICKOFF MEETING

This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)(2) and demonstrates compliance with design review kickoff requirements per §120.8(d)(2). This meeting should occur during the Schematic Design phase of the project.

01	Date of Design Review Kickoff Meeting	2020-04-07
02	Meeting Attendees: (one person may play multiple roles)	
03	Owner/Facility Manager:	Enviroplex, Inc.
04	Design Architect/Engineer(s):	Luis Esquivel
05	Design Architect/Engineer(s):	ART Ross
06	Contractor:	Dawit Peggans
07	Commissioning Provider:	Energy T24 Part 6 Consultant: Randy Shull

Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)(1)
The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.
Do the Design Reviewer(s) meet these qualifications? ☒ Yes ☐ No

03 In addition, for buildings with >= 10,000 ft² but < 50,000 ft², the design reviewer(s) shall be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect, or contractor.

04 The design reviewer(s) for this project will be: Luis Esquivel

Preliminary Construction Schedule	
	Completion Date
05 Schematic Design	2020-01-01
06 Design Development	2020-02-01
07 Construction Documents	2020-03-01
08 Construction	2021-01-01
09 Building Turnover	2021-02-01

Project Goals Related to Energy Efficiency

10 Operational Costs	
11 Desired Building Lifespan	
12 Equipment Lifecycle	
13 Project Energy Efficiency Goals	10% annual TDV energy use better than state minimum standard design
14 Envelope Goals	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001
Registration Provider: Energysoft
Schema Version: rev 20190401
Report Generated: 2020-04-14 13:56:36

STATE OF CALIFORNIA
NRCC-CXLR-4
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION
NRCC-CXLR-4
CERTIFICATE OF COMPLIANCE
Standard 24x40 PC Report Page: (Page 4 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

M. COMMISSIONING REPORT

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

There are no Certificates of Installation applicable to commissioning requirements.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Although there are no "CW" Certificates of Acceptance required to document commissioning requirements, Certificates of Acceptance may be used to supplement functional performance testing required by §120.8(d).

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001
Registration Provider: Energysoft
Schema Version: rev 20190401
Report Generated: 2020-04-14 13:56:36

STATE OF CALIFORNIA
NRCC-CXLR-4
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CALIFORNIA ENERGY COMMISSION
NRCC-CXLR-4
CERTIFICATE OF COMPLIANCE
Standard 24x40 PC Report Page: (Page 4 of 6)
Project Address: CZ 16 Date Prepared: 4/14/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Luis Esquivel	
Company:	Signature Date: 4/14/2020
Enviroplex, Inc.	
Address:	CSA 1055 Certification Identification (if applicable):
4777 E. Carpenter Road	
Stockton CA 95215	Phone: 209-466-8000

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify that the information provided on this Certificate of Compliance is true and correct.

- 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 design).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1, and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit application and 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 building permit application and for the building, and made available to the building owner or occupant.

Responsible Designer Name:	Responsible Designer Signature:
Luis Esquivel	
Company:	Signature Date: 2020-04-14
Enviroplex, Inc.	
Address:	Phone: 209-466-8000
4777 E. Carpenter Road	
Stockton CA 95215	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001
Registration Provider: Energysoft
Schema Version: rev 20190401
Report Generated: 2020-04-14 13:56:36

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120100 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CG ☒
DATE: 04/26/2022

STANDARD ELEMENTARY
SCHOOL
STANDARD SCHOOL
DISTRICT

ENERGY COMPLIANCE

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for
construction is required.

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EN6

24"x40" TO 120"x60" P.C.

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

NRCC-PLB-4

CERTIFICATE OF COMPLIANCE

Standard 24x40 PC Report Page: (Page 3 of 6)

Project Name: C2 15 Date Prepared: 4/24/2020

Project Address: C2 15 Date Prepared: 4/24/2020

A. GENERAL INFORMATION

01 Project Location (City) Reference city - Blue Canyon

02 Climate Zone 16

03 Occupancy Types Within Project (Select all that apply):
☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel
☐ State Building ☐ Healthcare Facility ☐ Other (Write in)

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 §160.5, §160.10(a), and §160.10(c), or §161.20(a), for additions or alterations. Solar water heating systems are documented on the NRCC-SHA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01 My project consists of (check all that apply):
☒ New system (DHW system being installed for the first time in newly constructed building)
☐ System alteration (equipment, distribution or controls)

02 System Type(s)^{1,2} Individual System (serving nonresidential spaces)

03 System Components:
☒ Equipment ☒ Distribution ☒ Controls
☐ Equipment ☐ Distribution ☐ Controls

FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
¹ Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001
Registration Provider: EnergoSoft
Report Generated: 2020-04-24 13:37:48
Schema Version: rev 20190401

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

NRCC-PLB-4

CERTIFICATE OF COMPLIANCE

Standard 24x40 PC Report Page: (Page 4 of 6)

Project Name: C2 15 Date Prepared: 4/24/2020

Project Address: C2 15 Date Prepared: 4/24/2020

C. COMPLIANCE RESULTS

This table is used to demonstrate compliance with mandatory equipment requirements in §160.5 and §160.8. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §160.10(a) must also be demonstrated and with §160.2, for addition and alteration scopes.

01 Domestic Hot Water Equipment

02 Distribution Systems

03 Controls

04 Table F

Compliance Results

Yes Yes Yes COMPLES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001
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STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

NRCC-PLB-4

CERTIFICATE OF COMPLIANCE

Standard 24x40 PC Report Page: (Page 5 of 6)

Project Name: C2 15 Date Prepared: 4/24/2020

Project Address: C2 15 Date Prepared: 4/24/2020

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in §160.5 and §160.8. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §160.10(a) must also be demonstrated and with §160.2, for addition and alteration scopes.

01 Equipment Schedule: Individual Systems

02 Equipment Type

03 Volume (gal)

04 Max (GPM) / First Hour Rating (FHR)

05 Rated Uniform Energy Factor (UEF)

06 Minimum Required Uniform Energy Factor (UEF)¹

A/C Smiths
E.L.P.-10
Electric Storage
<=30 FHR >=75 0.95 0.934

FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: <https://ceccapplianceenergy.ca.gov/Pages/Search/AdvancedSearch.aspx>

Water Heating Equipment All Occupancies

Yes No Not Applicable Requirement

18 ☐ ☐ ☒ Unified storage tank insulation shall have Internal + External >R-16 OR External >R-12. Label required per §160.36(c).

19 ☐ ☐ ☒ New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §160.36(c).

20 ☐ ☐ ☒ Insulation values for instantaneous water heater with input rating <5.8 MBTUH or 2 kW has been specified per §160.36(c).

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §160.5 and §160.8. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §160.36(c), §160.5, §160.10, §160.2.

Mandatory Pipe Insulation All Occupancies

12 ☒ For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3.4 (see below) per §160.3:
• 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

13 ☒ 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 §160.36(c) and §160.6(c).

Documentation Author's Declaration Statement

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

Documentation Author Name: Lulu Equestre

Documentation Author Signature: [Signature]

Signature Date: 4/24/2020

Company: Enviroplex, Inc.

Address: 4777 E. Carpenter Road

City/State/Zip: Stockton CA 95215

Phone: 209-466-8000

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I verify that the information provided on this Certificate of Compliance is true and correct.

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 4 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 2 of the California Code of Regulations.

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 2 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for this 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 submitted to the building permit or occupancy.

Responsible Designer Name: Lulu Equestre

Responsible Designer Signature: [Signature]

Signature Date: 2020-04-24

Company: Enviroplex, Inc.

Address: 4777 E. Carpenter Road

City/State/Zip: Stockton CA 95215

Phone: (209) 466-8000

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001
Registration Provider: EnergoSoft
Report Generated: 2020-04-24 13:37:48
Schema Version: rev 20190401

09/15/2022
04/29/2022
06/14/2021

CYS
STRUCTURAL ENGINEERS, INC.
4949 Serrano Park Drive, Suite 400
Stockton, CA 95215
(209) 938-9999 (or 10) 300-1-1000 Fax
www.cys-engineers.com

PROFESSIONAL ENGINEER
No. 10000
STATE OF CALIFORNIA

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ENVIROPLEX, INC.
4777 E CARPENTER ROAD
STOCKTON, CA 95215
(209) 466-8000

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REVIEWED FOR
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DATE: 04/26/2022

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DISTRICT

ENERGY COMPLIANCE

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DATE:

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PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
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24"x40" TO 120"x60" P.C.

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-4
CALIFORNIA ENERGY COMMISSION
NRC-2019-001
Page 3 of 5
Project Name: Standard 24x40 PC Report Page: 4/14/2020
Project Address: CZ 16 Date Prepared: 4/14/2020

A. GENERAL INFORMATION

01	Project Location (city)	Reference city - Blue Canyon	04	Building Type	Other nonresidential bldg 3 stories or fewer
02	Climate Zone	16	05	Construction Type	New Construction
03	1" Roof is designed for vehicle traffic, parking or for heliport				
03a	Plan sheet showing roof design for vehicle traffic, parking or heliport exception:				

B. PROJECT SCOPE

The compliance path the project is using to comply per §110.100(b) is indicated below.

My project consists of (check one):

☒	Provide Solar Ready Area no exceptions	The project has allocated a solar zone on the roof plan per requirements in §110.100, as documented in Table F.
☐	Exception to Solar Ready Area: Installed Solar Photovoltaic System	The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area as documented in Table G.
☐	Exception to Solar Ready Area: Installed Solar Water Heating System	The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with §155.1(c)(8)(ii) and Reference Residential Applicable, as documented in Table H.
☐	Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure	The project is a high-rise multifamily occupancy where all thermostats in each dwelling unit comply with §110.120, AND at least one additional measure listed in Exception 4 to §110.100(b) is installed, as documented in Table I.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001
Registration Provider: Energysoft
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STATE OF CALIFORNIA
Solar Ready Areas
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Page 4 of 5
Project Name: Standard 24x40 PC Report Page: 4/14/2020
Project Address: CZ 16 Date Prepared: 4/14/2020

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance or see the applicable Table referenced below.

Allocated Solar Zone		Installed PV System		Installed SWH System		Smart Thermostat and Alternative EE Measure		
01	02	03	04	05	06	07	08	09
Required Minimum Area (ft²)	Designated Area (ft²)	Required Minimum DC Power Rating (Watts)	Designed DC Power Rating (Watts)	Required Minimum Solar Savings Fraction	Designed/Rated Solar Savings Fraction	JAS Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	
(See Table F)		(See Table G)		(See Table H)		(See Table I)		COMPLIES
144	180	ON	ON	ON	ON	ON		COMPLIES

Location within the construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/plumbing to the electrical service/ water heating system per §110.100(c).

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001
Registration Provider: Energysoft
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STATE OF CALIFORNIA
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F. ALLOCATED SOLAR ZONE

This table is completed if the project is designating a solar zone to comply with §110.100(b). New construction consider the total roof area. Additions consider newly added roof area. This table demonstrates that the project has designated the minimum area required for the Allocated Solar Zone, and also that the requirements for Solar Zone Subareas have been met. Each subarea must be shown on a roof plan or documented in construction documents. The solar zones must also comply with the code requirements, including, but not limited to, setback and pathway requirements. Requirements for interconnection pathways must also be included in construction documents, and the location is specified in this table.

Required Minimum Solar Zone

01	02	03	04	05	06	07	08
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (ft²)	Method/ Tricks Used to Determine Annual Solar Access for Potential Zones*	Potential Solar Zone Areas: Roof areas with >= 70% Solar Access	Minimum Solar Zone Based on Potential Zone (0.5 x Total Potential Zone) (ft²)	Required Minimum Solar Zone Area (ft²)
	960	0	164		Low-Sloped Area (<= 2.22 pitch) Oriented 90° 300" (ft²)		144

Total New or Added Roof Area

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (low <= 2.12 pitch) (steep > 2.12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Free of Obstructions per §110.100(b)	Subarea is Required Distance from Potential Obstructions per §110.100(b)	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?
Main Roof	SRA	LowSlope	No	Yes	Yes	Yes	Yes	80	180	COMPLIES

Total Designated Solar Zone Area (ft²): 180

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-4
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Page 4 of 5
Project Name: Standard 24x40 PC Report Page: 4/14/2020
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Interconnection Pathways

Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.100(c).

Footnote: This field is used to document how the percentage of annual solar access was determined per §110.100(b). Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building that not be included in the determination of annual solar access.

G. PERMANENTLY INSTALLED SOLAR PHOTOVOLTAIC (PV) SYSTEM

This section does not apply to this project.

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS

This section does not apply to this project.

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE

This section does not apply to this project.

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included Table E.

Additional Remarks: These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/Title24/2019Standards/2019_compliance_documents/Nonresidential_Documents/NRCV

Yes	No	Form/Title	Pass	Fail
☒	☐	NRCC-SPV-G1-E - Must be submitted for all newly installed Photovoltaic Systems (PV) being used to comply with §110.100(b) for high-rise multifamily, Hotel/Motel buildings less than 10 stories and nonresidential buildings less than 4 stories.	☐	☐
☒	☐	NRCC-STW-G1-E - Must be submitted for all newly installed Solar Water Heating systems being used to comply with §110.100(b) for high-rise multifamily, Hotel/Motel buildings less than 10 stories and nonresidential buildings less than 4 stories.	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to solar ready requirements.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001
Registration Provider: Energysoft
Schema Version: rev 20190401
Report Generated: 2020-04-14 14:09:00

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-4
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NRC-2019-001
Page 5 of 5
Project Name: Standard 24x40 PC Report Page: 4/14/2020
Project Address: CZ 16 Date Prepared: 4/14/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Luis Enriquez
Signature Date: 4/14/2020
Company: Enviroplex, Inc.
Address: 4777 E. Carpenter Road
City/State/Zip: Stockton, CA 95215
Phone: 209-466-8000

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

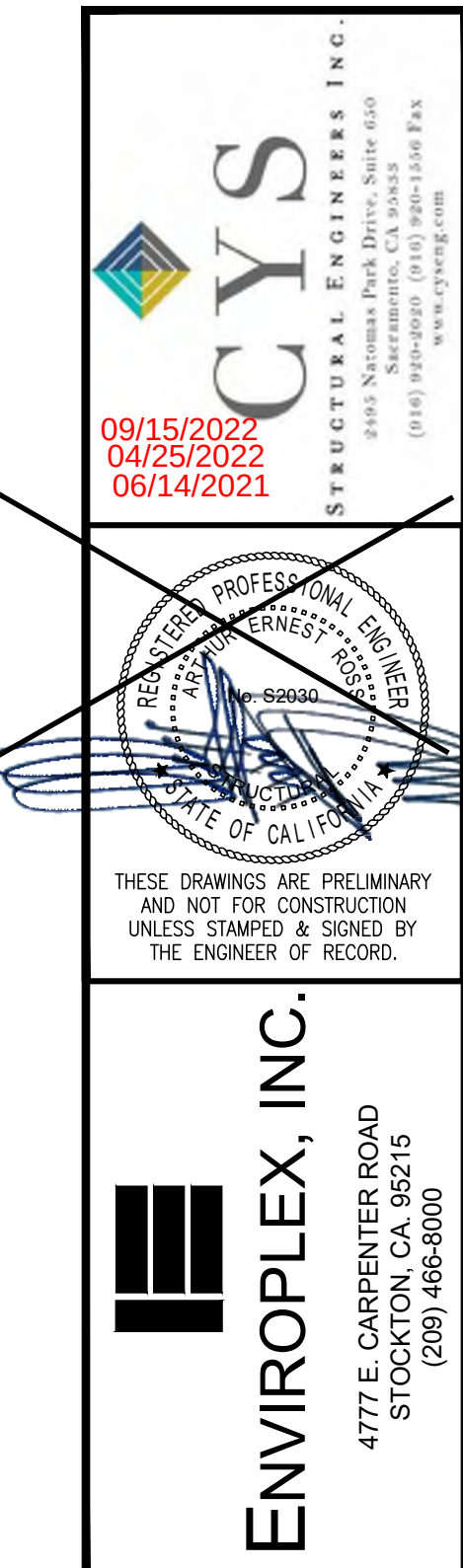
- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 1 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible design).
- The energy features 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 9 and Part 1 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit application for the building, and made available to the enforcement agency for all applicable inspections. I understand that a complete signed copy of this Certificate of Compliance is required to be included with the building permit application.

Responsible Designer Name: Luis Enriquez
Signature Date: 2020-04-14
Company: Enviroplex, Inc.
Address: 4777 E. Carpenter Road
City/State/Zip: Stockton, CA 95215
Phone: 209-466-8000

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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STATE OF CALIFORNIA
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Page 5 of 5
Project Name: Standard 24x40 PC Report Page: 4/14/2020
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Registration Date/Time: Report Version: 2019.0.001
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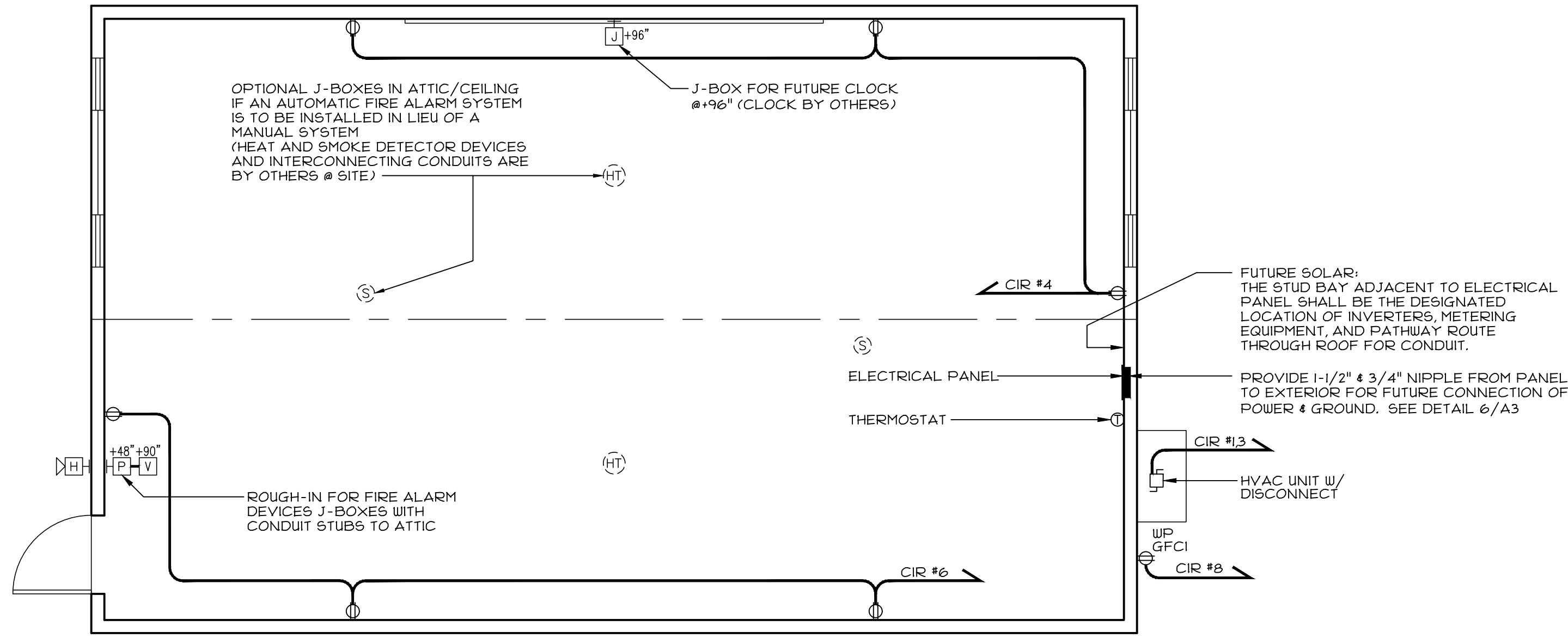


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DISTRICT

ENERGY COMPLIANCE

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.



REFERENCE ONLY SEE A3.2 FOR SITE SPECIFIC PLAN

1 ELECTRICAL POWER & SIGNAL PLAN

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

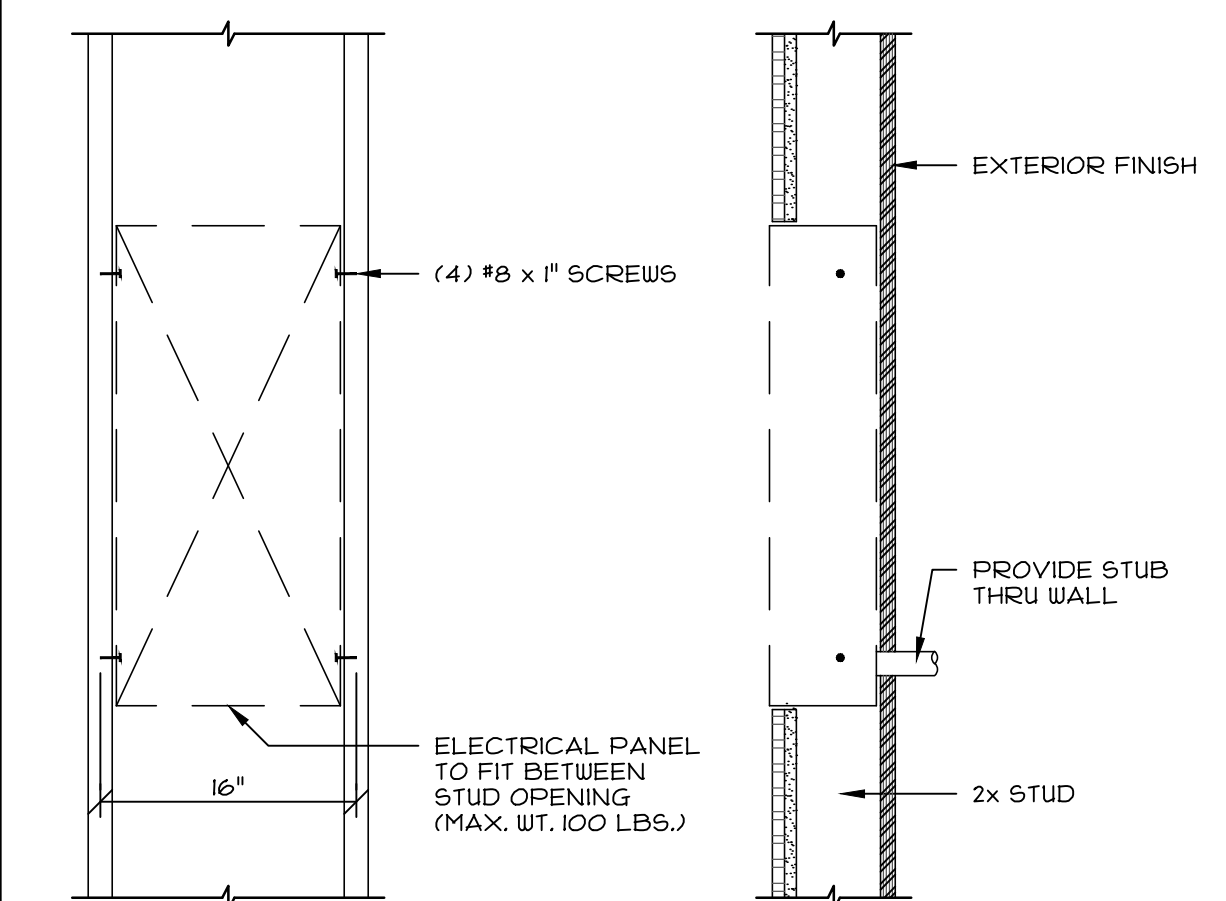
2 FIRE PROTECTION

- DUPLEX RECEPTACLE #15" MIN. A.F.F. (TO BOTTOM OF BOX) OR 18" A.F.F. TO CENTERLINE OF BOX. (UNLESS OTHERWISE NOTED)
- CONTROLLED DUPLEX RECEPTACLE #15" MIN. A.F.F. (TO BOTTOM OF BOX) OR 18" A.F.F. TO CENTERLINE OF BOX. (UNLESS OTHERWISE NOTED)
- PROGRAMMABLE DIGITAL THERMOSTAT FOR HVAC UNIT #14" MAX. A.F.F. (TO TOP OF BOX) (SEE 2/A2.0 FOR REQUIREMENTS)
- JUNCTION BOX (SIZE AND INSTALLATION HEIGHT AS NOTED)
- WATER PROOF BELL BOX UNDER EAVE #19'-4" (U.O.N.) FOR FUTURE FIRE ALARM AUDIBLE WARNING DEVICE SEE NOTE NO. 1 OF FIRE PROTECTION
- JUNCTION BOX #148" A.F.F. (TO TOP OF BOX) FOR FUTURE FIRE ALARM PULL STATION - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
- JUNCTION BOX #190" (U.O.N.) FOR FUTURE FIRE ALARM HORN/STROBE DEVICE - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
- JUNCTION BOX #148" A.F.F. (TO TOP OF BOX) (U.O.N.) FOR FUTURE INTERCOM
- CEILING MOUNT EXHAUST FAN (CFM PER "A2X-X" SHEET SERIES)
- OPTIONAL JUNCTION BOX IN ATTIC FOR FUTURE HEAT DETECTOR (DEVICES AND INTERCONNECTING CONDUITS BY OTHERS # SITE)
- OPTIONAL JUNCTION BOX IN ATTIC FOR FUTURE SMOKE DETECTOR (DEVICES AND INTERCONNECTING CONDUITS BY OTHERS # SITE)
- OPTIONAL WATER PROOF BELL BOX UNDER EAVE #19'-4" (U.O.N.) FOR FUTURE FIRE ALARM AUDIBLE (SPEAKER) WARNING DEVICE SEE NOTE NO. 1 OF FIRE PROTECTION

4 ELECTRICAL LEGEND

- NOTES:
- METER AND GROUND ARE NOT PART OF THIS CONTRACT TO BE PROVIDED BY OTHERS
 - SIZE OF CONDUCTORS SHALL COMPLY W/CEC TABLE 310.16
 - ROUND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL OF BUILDING FRAME (C.E.C. 250.52) IN ADDITION TO THE DETAIL SHOWN BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10" INTO THE SOIL IF AVAILABLE (C.E.C. 250.52)
 - ALL MODULARS OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER. (BOLTING ONLY IS NOT ACCEPTABLE BONDING)
 - CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 5 OHMS, INSTALL ADDITIONAL GROUND ROD GREATER THAN 6'-0" AWAY (C.E.C. 250.53) ONCE THE SECOND GROUND ROD IS INSTALLED, ADDITIONAL RESISTANCE TESTING IS NOT REQUIRED
 - WHERE MODULAR BUILDINGS ARE GROUPED TOGETHER, A GROUND ROD MAY BE INSTALLED AT THE END OF EACH BUILDING AND A GROUND RING MAY BE INSTALLED BETWEEN THEM. EACH INTERMEDIATE BUILDING MAY BE BONDED TO THAT GROUND RING. WHERE THIS METHOD IS USED, GROUND RESISTANCE TESTING SHALL NOT BE REQUIRED
 - WHERE MODULAR BUILDINGS ARE INSTALLED ON CONCRETE FOUNDATIONS, A FIRM GROUND SHALL BE INSTALLED IN THE FOOTING PIER (C.E.C. 250.51 (A)(3))
 - OTHER GROUNDING METHODS IDENTIFIED IN C.E.C. 250.51 SHALL BE ACCEPTABLE MEANS TO ACHIEVE ADEQUATE GROUNDING OF METAL BUILDINGS IN COMPLIANCE WITH THE ABOVE
 - 5/8" x 8' LONG, COPPER CLAD GROUND ROD OR OTHER ELECTRODE AS SPECIFIED IN CALIFORNIA ELECTRICAL CODE, 250.52(A)(5)
- NOTE: GROUND TO BE PROVIDED BY OTHERS**
- GROUNDING TEST ARE TO BE OBSERVED AND REPORTED BY THE INSPECTOR OF RECORD.
- ELECTRICAL PNL. SEE 9/A3
- 3/4" NIPPLE FOR GROUND IN WALL
- PANEL BONDED TO GROUND CONDUCTOR
- RIGID EMT CONDUIT W/ CONDUCTORS ATTACHED TO WALL W/ 2-HOLE STRAPS
- TEE CONDUIT FOR SEPARATE CONDUCTOR TO GROUND BONDED TO METAL BUILDING FRAME
- PROVIDE FLEXIBLE CONDUIT TO ALLOW MOVEMENT OF 2" EACH DIRECTION
- BOND FLEX CONDUIT TO GROUND ROD CBC SEC. 348.60

6 ELECTRICAL GROUND



9 ELECTRICAL PANEL INSTALLATION

SCALE: 1"=1'-0"

- OPTIONAL SURFACE MOUNT WALL CLOCK (BY OWNERS): PROVIDE SINGLE CLOCK RECEPTACLE 115 VAC (OR EQUAL).
- ELECTRICAL PANEL: FLUSH INTERIOR MOUNTED OR SURFACE MOUNT EXTERIOR W/ HINGED DOORS AND INDEXED CARD HOLDERS. CIRCUIT BREAKER(S) WILL HAVE AN APPROPRIATE UL LABEL LISTING.
- RECEPTACLES: "LEVITON", "HUBBEL" (OR EQUAL)
- ELECTRIC METALLIC TUBING: COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARDIZED.
- CONDUCTORS: COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6 TYPE THW FOR LARGER SIZES. MINIMUM SIZE #12. LIGHTING & OUTLETS USE MINIMUM SIZE #12. SIZE HVAC WIRING PER LOAD.
- SEE SHEET 2/A2.0 FOR HVAC & THERMOSTAT SPECIFICATION.

3 ELECTRICAL SPECIFICATIONS

PANEL SCHEDULE: "A"
MOUNTING: FLUSH INT. (NEMA 1)
PANEL: 125 AMP RATED
MAIN BREAKER: 125A
VOLTAGE: 120/240
PHASE: 1φ
WIRE: 3W

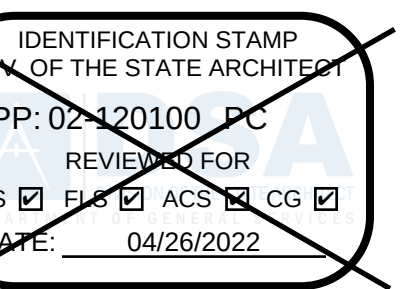
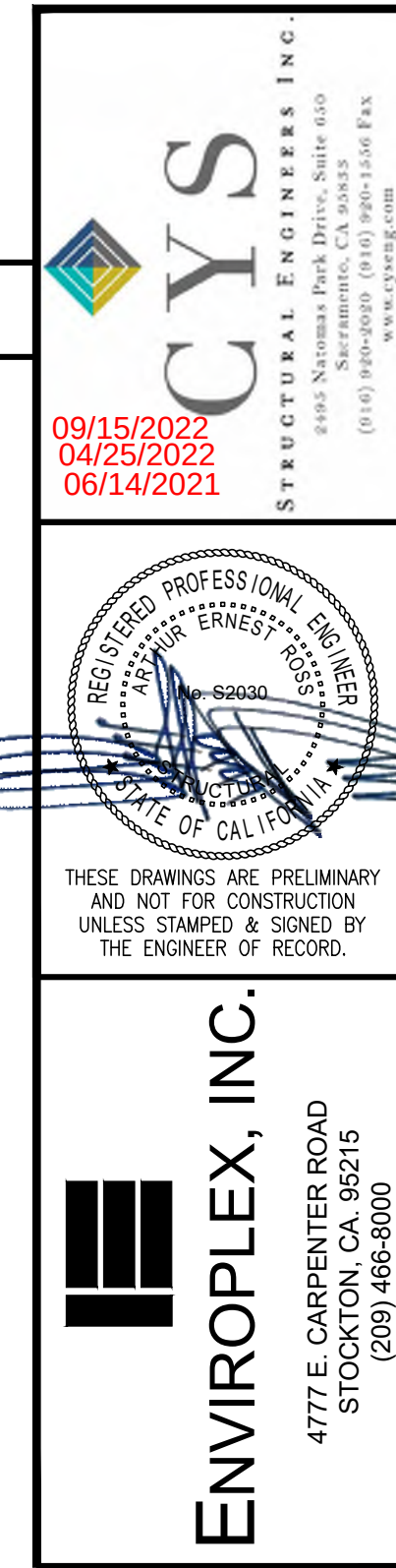
DESCRIPTION	LOAD	BRKR	MAIN	BRKR	LOAD	DESCRIPTION
HVAC UNIT	7360	80	1	2	20	20A LIGHTING - A
	7360	2	3	4	20	20A OUTLETS
				5	20	20A OUTLETS
				6	20	20A OUTLETS
				7	20	20A OUTLETS
				8	20	20A OUTLETS
				9	20	20A OUTLETS
				10	20	20A OUTLETS
				11	20	20A OUTLETS
				12	20	20A OUTLETS
				13	20	20A OUTLETS
				14	20	20A OUTLETS
				15	20	20A OUTLETS
				16	20	20A OUTLETS
				17	20	20A OUTLETS
				18	20	20A OUTLETS
				19	20	20A OUTLETS
				20	20	20A OUTLETS
				21	20	20A OUTLETS
				22	20	20A OUTLETS
				23	20	20A OUTLETS
				24	20	20A OUTLETS

LEG A: 8404 W
LEG B: 8080 W
TOTAL: 16484 W
AMPS: 68.1

* RESERVED SPACE FOR FUTURE SOLAR ELECTRIC SHALL BE PERMANENTLY MARKED.

7 TYPICAL PANEL SCHEDULE

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.



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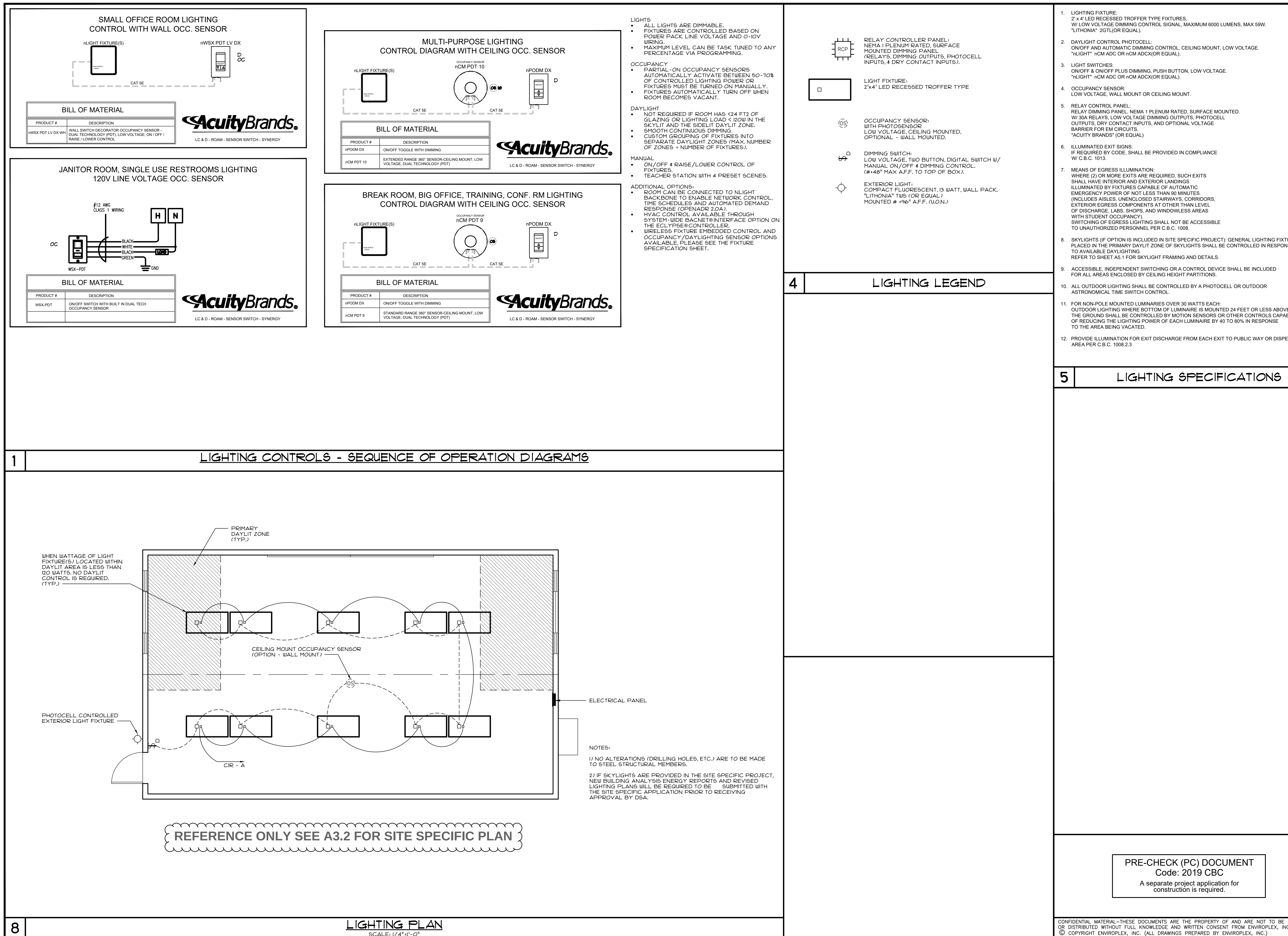
ELECTRICAL POWER PLAN, SIGNAL PLAN, DETAILS, ELECTRICAL NOTES

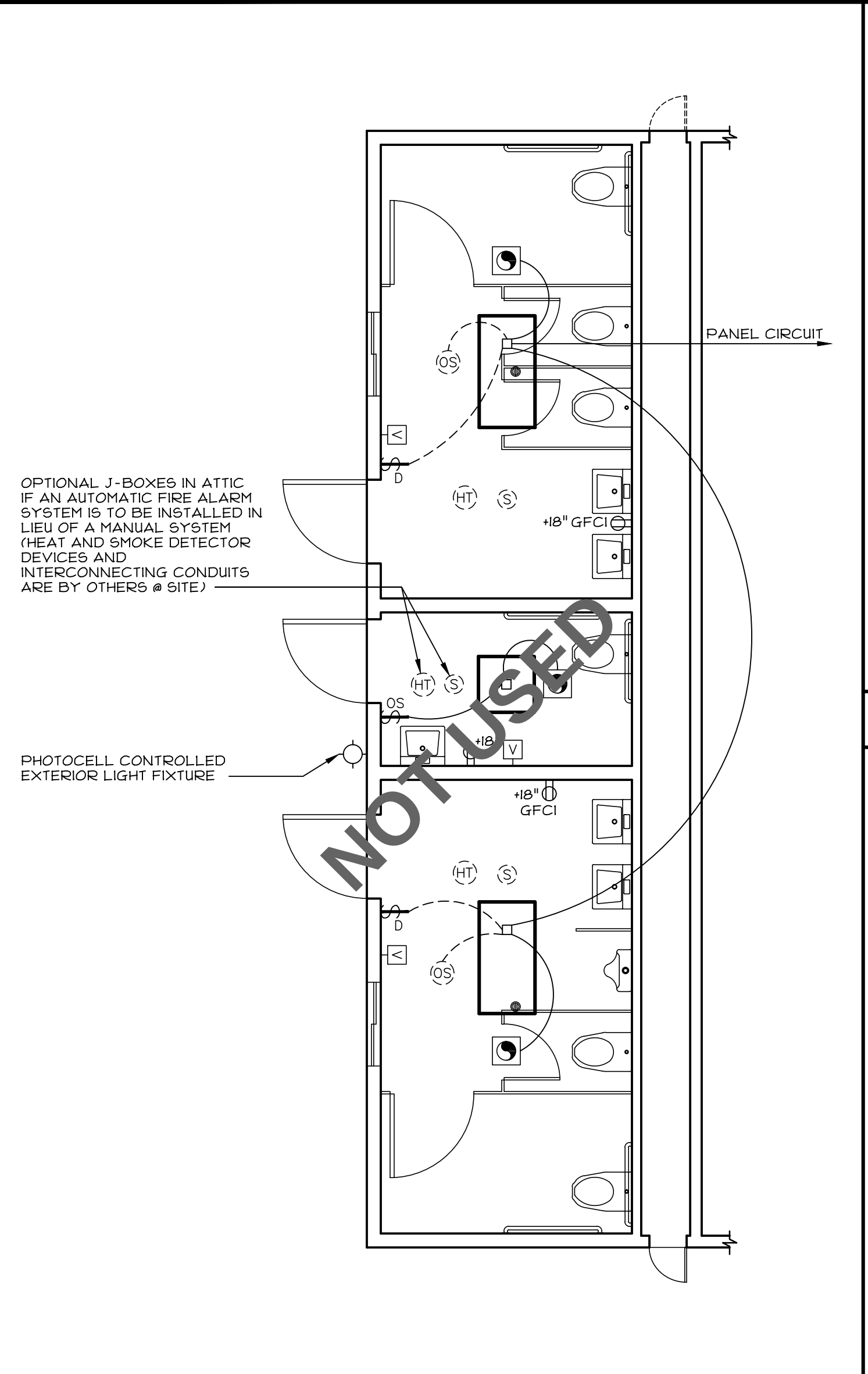
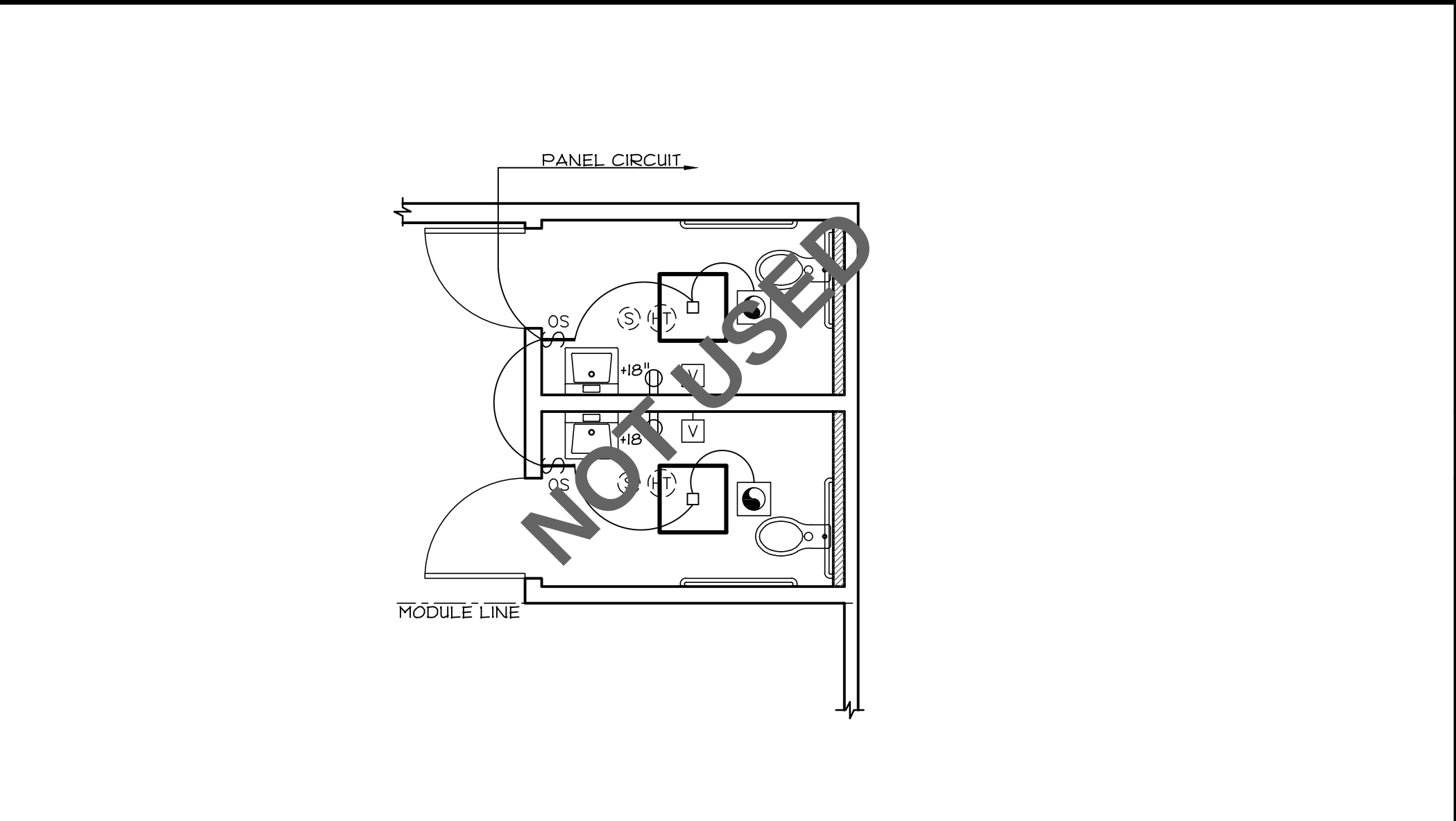
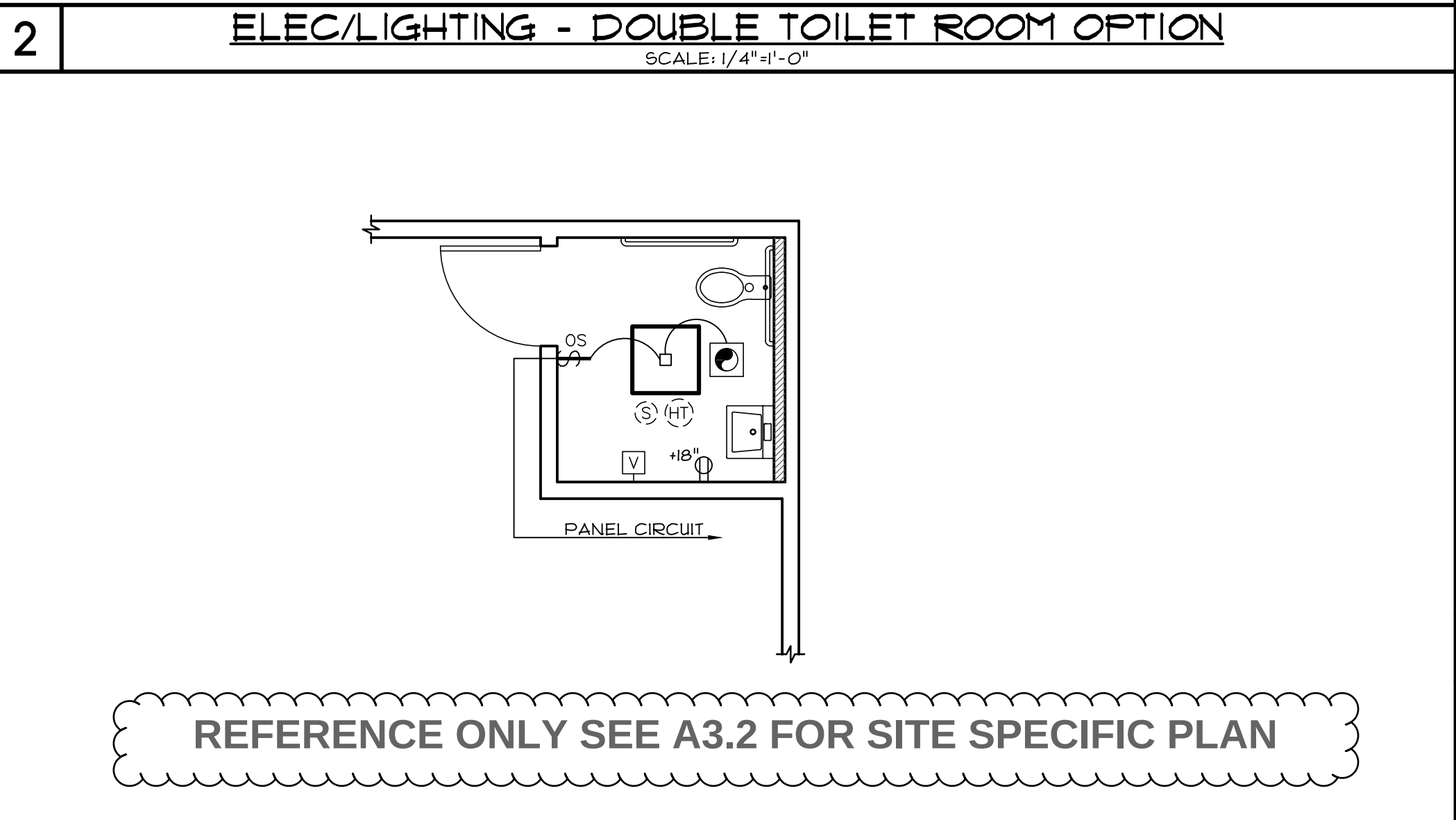
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DRAWN BY:
DATE:

A3

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 1 ELEC/LIGHTING - MULTIPLE TOILET RM. OPTION SCALE: 1/4"=1'-0"	 2 ELEC/LIGHTING - DOUBLE TOILET ROOM OPTION SCALE: 1/4"=1'-0"	 3 ELEC/LIGHTING - SINGLE TOILET ROOM OPTION SCALE: 1/4"=1'-0"	1. LIGHTING FIXTURE: 2' x 4' LED RECESSED TROFFER TYPE FIXTURES, W/ LOW VOLTAGE DIMMING CONTROL SIGNAL, MAXIMUM 6000 LUMENS, MAX 35W, "LITHONIA" 2GTL (OR EQUAL). 1.1 LIGHTING FIXTURE: 2' x 2' LED RECESSED TROFFER TYPE FIXTURES, W/ LOW VOLTAGE DIMMING CONTROL SIGNAL, MAXIMUM 4000 LUMENS, MAX 35W, "LITHONIA" 2GTL (OR EQUAL). 2. DAYLIGHT CONTROL PHOTOCELL: ON/OFF AND AUTOMATIC DIMMING CONTROL, CEILING MOUNT, LOW VOLTAGE, "LIGHIT" nCM ADC OR nCM ADCX(OR EQUAL). 3. LIGHT SWITCHES: ON/OFF & ON/OFF PLUS DIMMING, PUSH BUTTON, LOW VOLTAGE, "LIGHIT" nCM ADC OR nCM ADCX(OR EQUAL). 4. OCCUPANCY SENSOR: LOW VOLTAGE, WALL MOUNT OR CEILING MOUNT. 5. RELAY CONTROL PANEL: RELAY DIMMING PANEL, NEMA 1 PLENUM RATED, SURFACE MOUNTED, W/ 30A RELAYS, LOW VOLTAGE DIMMING OUTPUTS, PHOTOCELL OUTPUTS, DRY CONTACT INPUTS, AND OPTIONAL VOLTAGE BARRIER FOR EM CIRCUITS, "ACUITY BRANDS" (OR EQUAL). 6. ILLUMINATED EXIT SIGNS: IF REQUIRED BY CODE, SHALL BE PROVIDED IN COMPLIANCE W/ C.B.C. 1013 & 1006. 7. NOT USED 8. SKYLIGHTS (IF OPTION IS INCLUDED IN SITE SPECIFIC PROJECT): GENERAL LIGHTING FIXTURES PLACED IN THE PRIMARY DAYLIT ZONE OF SKYLIGHTS SHALL BE CONTROLLED IN RESPONSE TO AVAILABLE DAYLIGHTING. REFER TO SHEET A5.1 FOR SKYLIGHT FRAMING AND DETAILS. 9. ACCESSIBLE, INDEPENDENT SWITCHING OR A CONTROL DEVICE SHALL BE INCLUDED FOR ALL AREAS ENCLOSED BY CEILING HEIGHT PARTITIONS. 10. ALL OUTDOOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCELL OR OUTDOOR ASTRONOMICAL TIME SWITCH CONTROL. 11. FOR NON-POLE MOUNTED LUMINAIRES OVER 30 WATTS EACH: OUTDOOR LIGHTING WHERE BOTTOM OF LUMINAIRE IS MOUNTED 24 FEET OR LESS ABOVE THE GROUND SHALL BE CONTROLLED BY MOTION SENSORS OR OTHER CONTROLS CAPABLE OF REDUCING THE LIGHTING POWER OF EACH LUMINAIRE BY 40 TO 80% IN RESPONSE TO THE AREA BEING VACATED.
5 LIGHTING SPECIFICATIONS			
4 LEGEND			
9 ELEC/LIGHTING - KITCHEN OPTION WITHIN AN OFFICE SPACE SCALE: 1/4"=1'-0"			

OPTIONAL J-BOXES IN ATTIC IF AN AUTOMATIC FIRE ALARM SYSTEM IS TO BE INSTALLED IN LIEU OF A MANUAL SYSTEM (HEAT AND SMOKE DETECTOR DEVICES AND INTERCONNECTING CONDUITS ARE BY OTHERS @ SITE)

PHOTOCELL CONTROLLED EXTERIOR LIGHT FIXTURE

PANEL CIRCUIT

MODULE LINE

NOT USED

RELAY CONTROLLER PANEL:
NEMA 1 PLENUM RATED, SURFACE MOUNTED DIMMING PANEL (RELAYS, DIMMING OUTPUTS, PHOTOCELL INPUTS, 4 DRY CONTACT INPUTS).

RCP

LIGHT FIXTURE:
2'x4' LED RECESSED TROFFER TYPE

LIGHT FIXTURE:
2'x2' LED RECESSED TROFFER TYPE

OCCUPANCY SENSOR:
LOW VOLTAGE, CEILING MOUNTED, OPTIONAL - WALL MOUNTED.

DIMMING SWITCH:
LOW VOLTAGE, TWO BUTTON, DIGITAL SWITCH W/ MANUAL ON/OFF & DIMMING CONTROL. (#148" MAX A.F.F. TO TOP OF BOX).

NON-DIMMING SWITCH:
LOW VOLTAGE, TWO BUTTON, DIGITAL SWITCH W/ MANUAL ON/OFF (#148" MAX A.F.F. TO TOP OF BOX).

SWITCH WITH OCCUPANCY SENSOR:
IF SPACE IS LESS THAN 100 S.F. OR THE LIGHTING LOAD DOES NOT EXCEED 0.5 WATTS PER S.F., THEN NON-DIMMING SWITCH MAY BE USED.

EXTERIOR LIGHT:
COMPACT FLUORESCENT, 13 WATT, WALL PACK, "LITHONIA" TWS (OR EQUAL), MOUNTED # 146" A.F.F. (U.O.N.)

CONTROLLED RECEPTACLE NOTES:

1. CONTROLLED RECEPTACLES SHALL BE CIRCUITED THROUGH THE POWER PACK (P/P) AS SHOWN, ROUTE A CAN BE DATA CABLE FROM POWER PACK TO ALIGHT LIGHTING CONTROL SYSTEM, ROUTE BLUE CONDUCTOR TO THE SWITCHED RECEPTACLE SO THE RECEPTACLE WILL BE CONTROLLED WITH THE OCCUPANCY SENSOR IN THE ROOM.

2. CONTROLLED RECEPTACLES ARE REQUIRED FOR KITCHEN AREAS LOCATED WITHIN OFFICE OCCUPANCIES, ENERGY CODE 905(G).

3. KITCHEN AREAS LOCATED WITHIN CLASSROOM OCCUPANCIES ARE NOT REQUIRED TO HAVE CONTROLLED RECEPTACLES.

NOT USED

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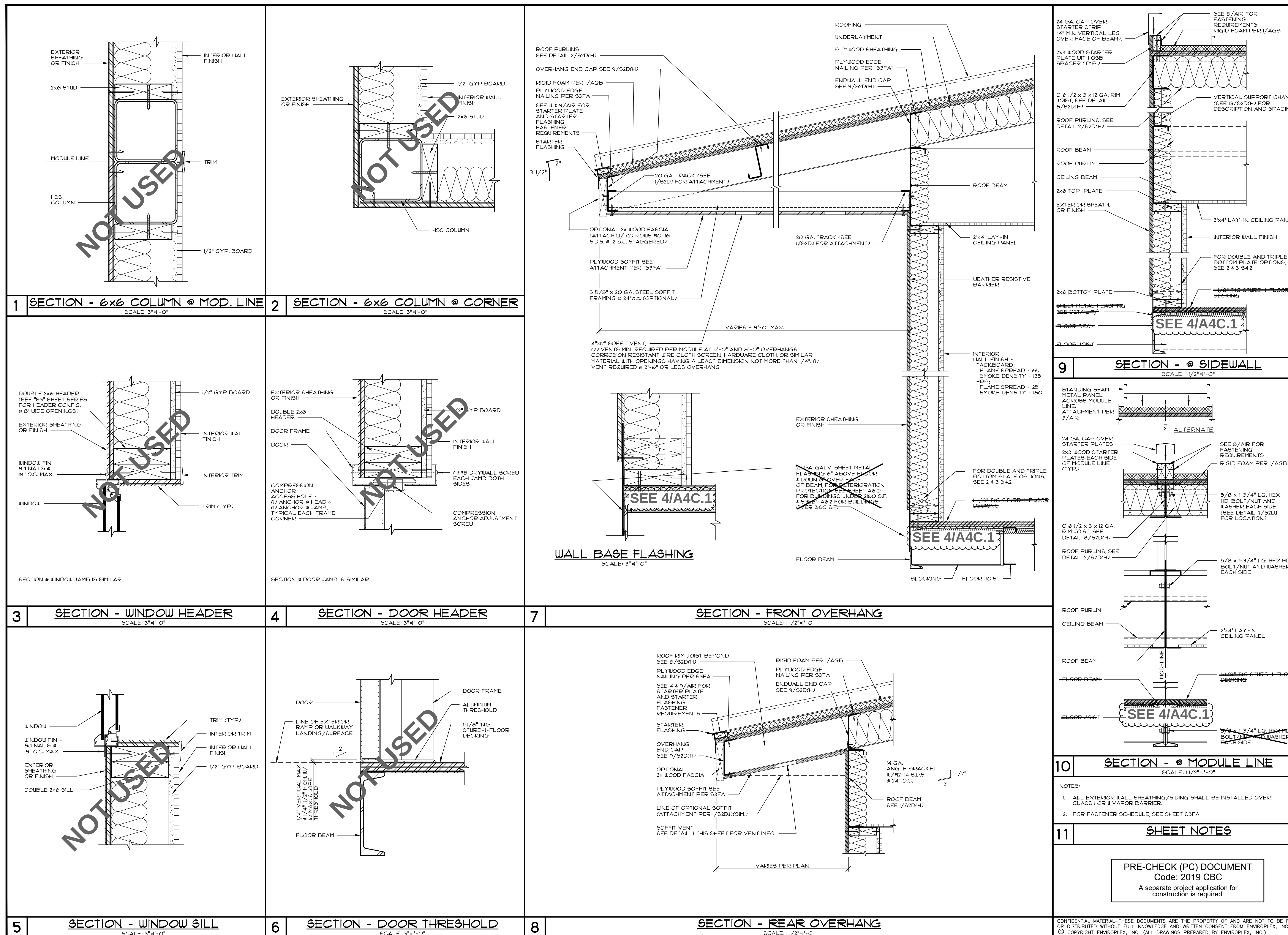
STANDARD ELEMENTARY SCHOOL
STANDARD SCHOOL DISTRICT

ELECTRICAL & LIGHTING PLANS FOR TOILET ROOM OPTIONS

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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24"x40" TO 120"x60" P.C.



STUCCO MATERIAL SPECIFICATIONS

STUCCO MATERIALS

- A. Building Moisture Barrier: 2 - layers, 60 minute Grade D Building Paper, ASTM D-828, as tested per ASTM E-96
- B. Stucco Netting: Standard No. 17 gauge, 1-1/2-inch mesh, galvanized stucco lath, self furring (FS QQ-L-101C), K-Lath: 1-1/2" x 17 GA Self-furred woven stucco netting.
- C. Lathing Accessories: Not less than No. 26 gauge steel, zinc-coated by Superior, Western Metal Lath, Inryco/Mitor, or Keene furnish and install all inside and outside corner reinforcement, casing beads, base, drip, and weep screeds, strip lath, control and expansion joints, wall reveals, soffit vents, and any other accessories indicated or required to complete the installation. 7/8" typical ground size thickness.
1. Foundation sill weep screed (perforated)/stucco stop: Western Metal Lath No. 7 Foundation Weep Screed, 26 gauge-galvanized steel.
2. Control Joint: Western Metal Lath No. XI15-3 control joint, 26 gauge galvanized steel.
3. Internal Corner Control Joint: Western Metal Lath No. 30 internal corner control joint, 26 gauge-galvanized steel.
4. Casing Bead: Western Metal Lath No. 66 Expanded Flange Casing Bend, 24 gauge, galvanized steel.
5. External Corner Reinforcement: Stockton "Cornealid" exterior corner reinforcing.
- D. Lath Tie Wire: No. 18 gauge galvanized soft steel wire.
- E. Lath Fastenings:
1. Nails for attaching stucco lath to wood framing and sheathing shall be galvanized box or roofing nails, long enough to penetrate sheathing and framing to minimum depth of 1-1/4". At the Contractor's option, #14 or #16 gauge galvanized wire staples may be used, providing again they shall penetrate sheathing and framing to depth of 1". Nails or staples shall securely engage the back wires of self-furring lath and penetrate framing as required for holding power. For standard or plain stucco netting, use standard furring nails, furring from 1/4" to 3/8", with minimum penetration into framing of 1-1/4".
- F. Portland Cement Plaster:
1. Thickness: Typically, unless otherwise shown, 7/8" total, scratch, brown, and finish at 3/8," 3/8," and 1/8" coat thickness each, respectively; proportions in accordance with ASTM C926.

APPLICATION OF BUILDING PAPER

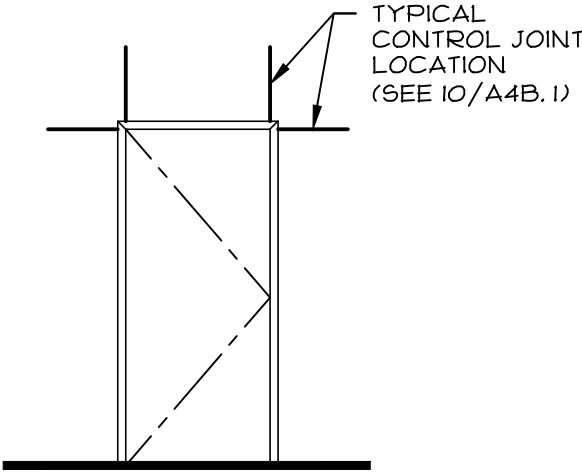
- A. Install Building Moisture Barrier, before installing lath, over all exterior sheathing board for surfaces to receive cement plaster as follows:
1. Apply asphalt felt moisture barrier over sheathing horizontally, lapping sides 2" to weather and ends 6". Secure sufficiently with staples to hold in place without sagging until second layer is applied. Two layers of 60 minute Grade D moisture barrier to be installed separately. Stagger joints.
2. Apply second layer of asphalt felt moisture barrier vertically over first layer at inside and outside corners
3. Any penetrations, punctures, tears or damages in asphalt felt moisture barrier shall be repaired or replaced per Architect's instruction prior to lath application.
- B. All window, door, vent, utility pipe, etc. penetration through cement plaster walls and surfaces shall comply with the Western Conference of Lathing and Plastering Institutes, Inc. "Penetration Flashing Recommendation"

APPLICATION OF LATH AND ACCESSORIES

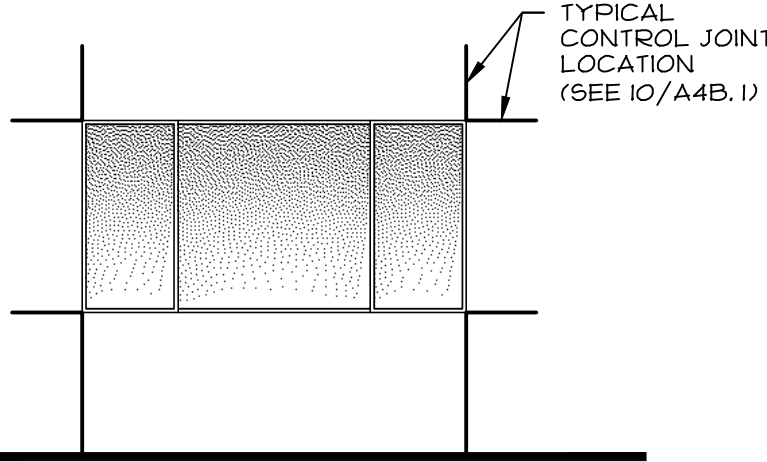
- A. Cement Plaster shall be used at, and only at, all vertical locations unless otherwise noted on drawings. Cement Plaster shall not be used on horizontal surfaces unless otherwise noted on drawings
- B. Apply lath directly over Moisture Barrier with fasteners to sheathing and framing members hereinbefore specified, spaced not more than 6" apart vertically and 16" apart horizontally, directly over framing members. Nails shall engage the lath securely with washers as required. Laps of plaster lath shall be 1" minimum and shall be laced with #18 gauge galvanized soft steel wire. If plain or standard stucco netting is used, apply in same manner, except that fasteners shall include furring washers. Attach lath per CBC 2507.3.
- C. Install all required plaster grounds, base, drip, and weep screeds, corner reinforcement, special stops, control joints, strip lath, and other metal accessories. Apply and shim out to required thickness. Set plumb, level and straight, free of kinks and bends. Install casing beads or stops at the edges of all plaster continuously. Provide expansion joints or control joints where indicated or required by referenced standards. Location of all control joints shall be approved by the Architect prior to installation do not install in conspicuous location unless approved by the Architect. Intersections and splices of control joints shall be set in continuous bead of sealant. Control joints, expansion joints, wall reveals and soffit vents shall be cleaned and clear of plaster within the control, expansion, reveal and vent areas after plaster application and before final plaster set. Do not use sharp instruments or tools that might remove galvanized coating from plaster accessories. Casing beads shall not be installed redundantly where wood trims are shown as stucco grounds in details (i.e. windows, doors, etc.).

TYP. CONTROL JOINT PLACEMENT

NOTE:
VERTICAL CONTROL JOINTS
SHALL OCCUR ON BLANK
WALLS NO MORE THAN 12'-0" O.C.
APART.



AT TYPICAL DOOR



AT TYPICAL SINGLE WINDOW

CYS

STRUCTURAL ENGINEERS, INC.

09/15/2022
04/25/2022
06/14/2021

4948 Sycamore Park Drive, Suite 400
Stockton, CA 95215
(916) 920-9900 (916) 920-1548 Fax
www.cys-engineers.com

PROFESSIONAL ENGINEER
REGISTERED IN THE STATE OF CALIFORNIA
No. 50860
EXPIRATION DATE 06/30/2024

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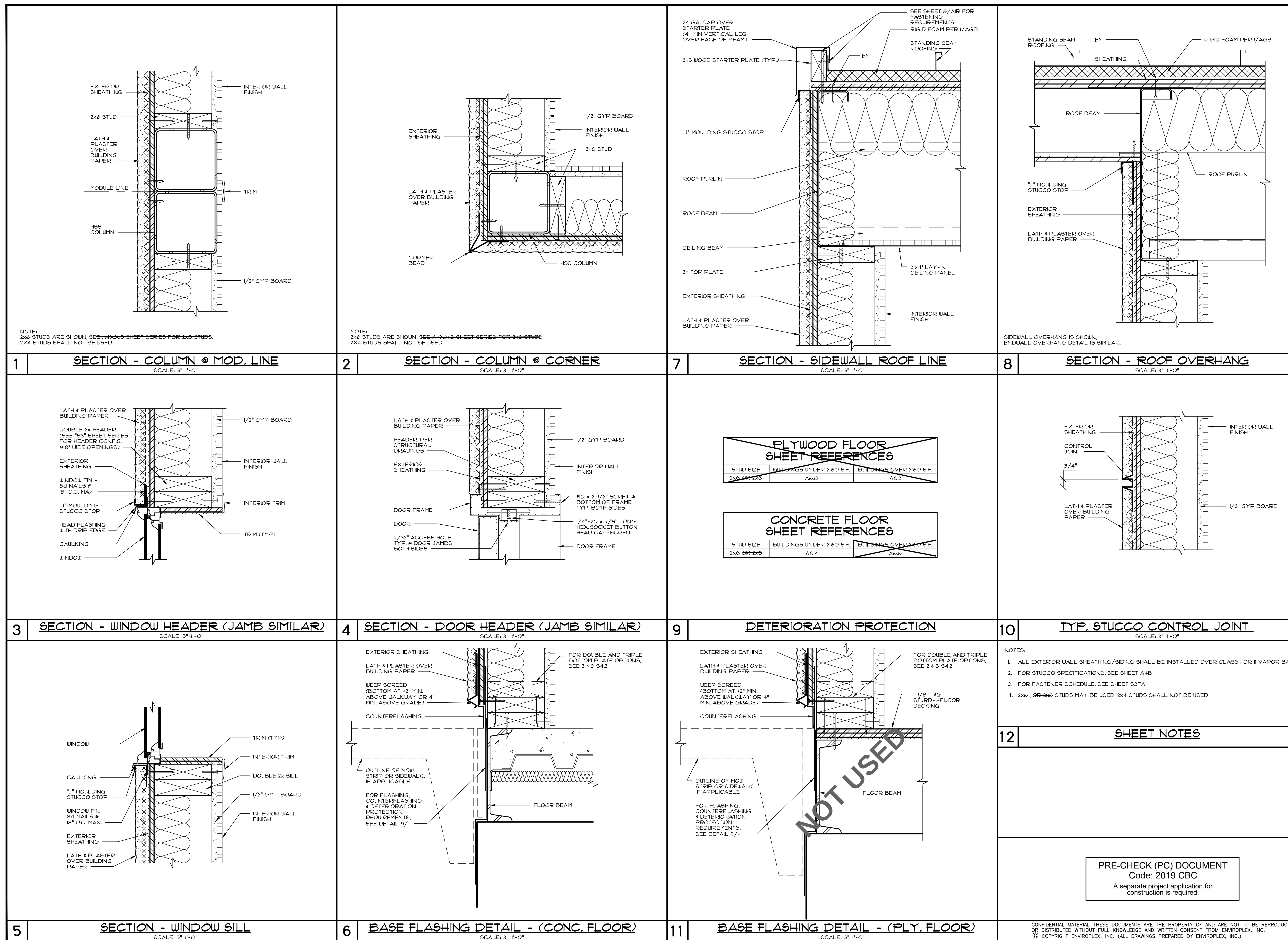
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STANDARD SCHOOL
DISTRICT

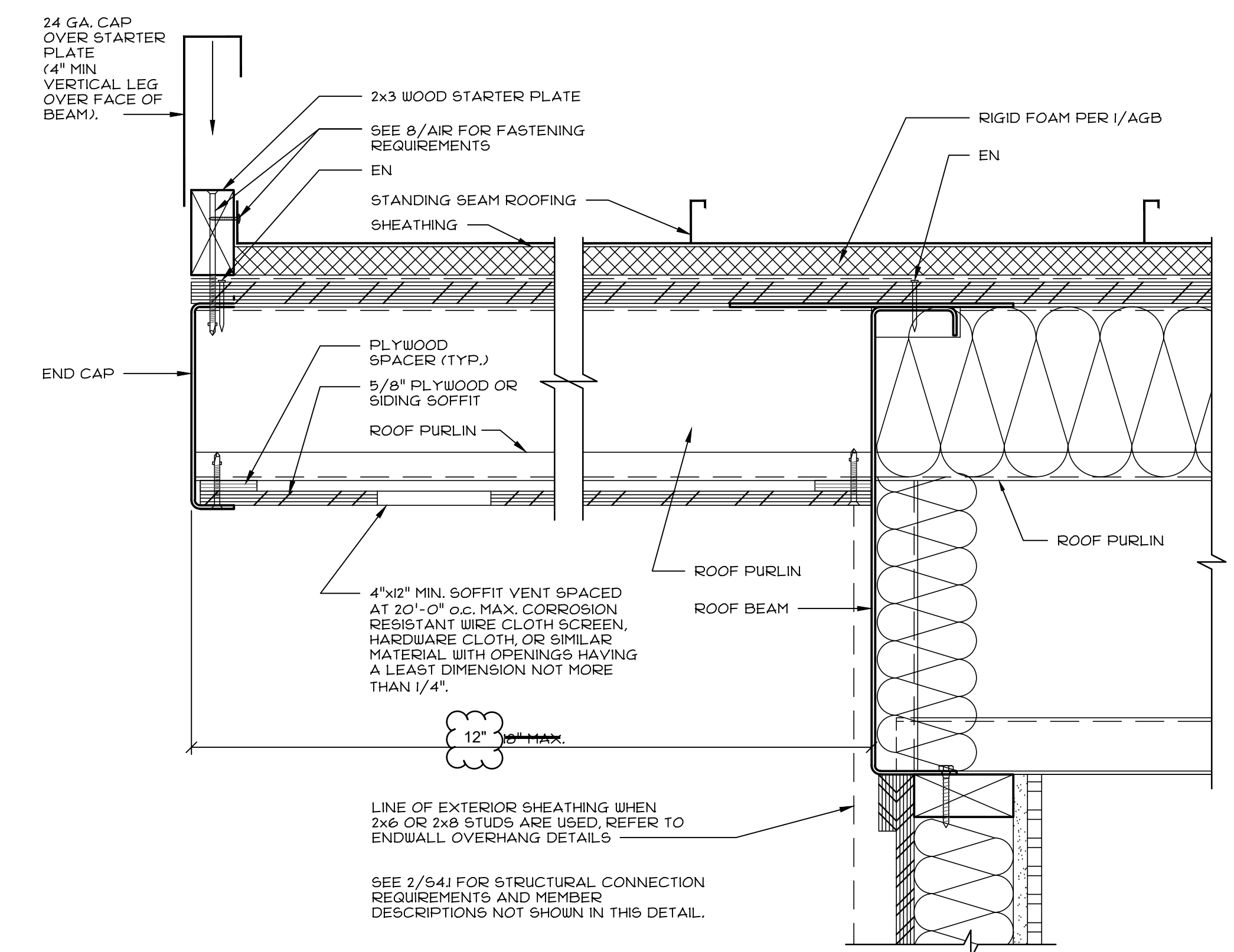
STUCCO MATERIAL
SPECIFICATIONS

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TYPICAL SIDEWALL OVERHANG DETAIL
SCALE: 3"=1'-0"

2

 **CYS**
STRUCTURAL ENGINEERS, INC.
1600 S. Scenic Drive, Suite 200
Sunnyvale, CA 94086
(916) 335-8800
www.cys-engineers.com

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OPTIONAL SIDEWALL OVERHANG DETAIL

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DATE:	
A4S	

24'x40' TO 120'x40' P.C.

NOTES:

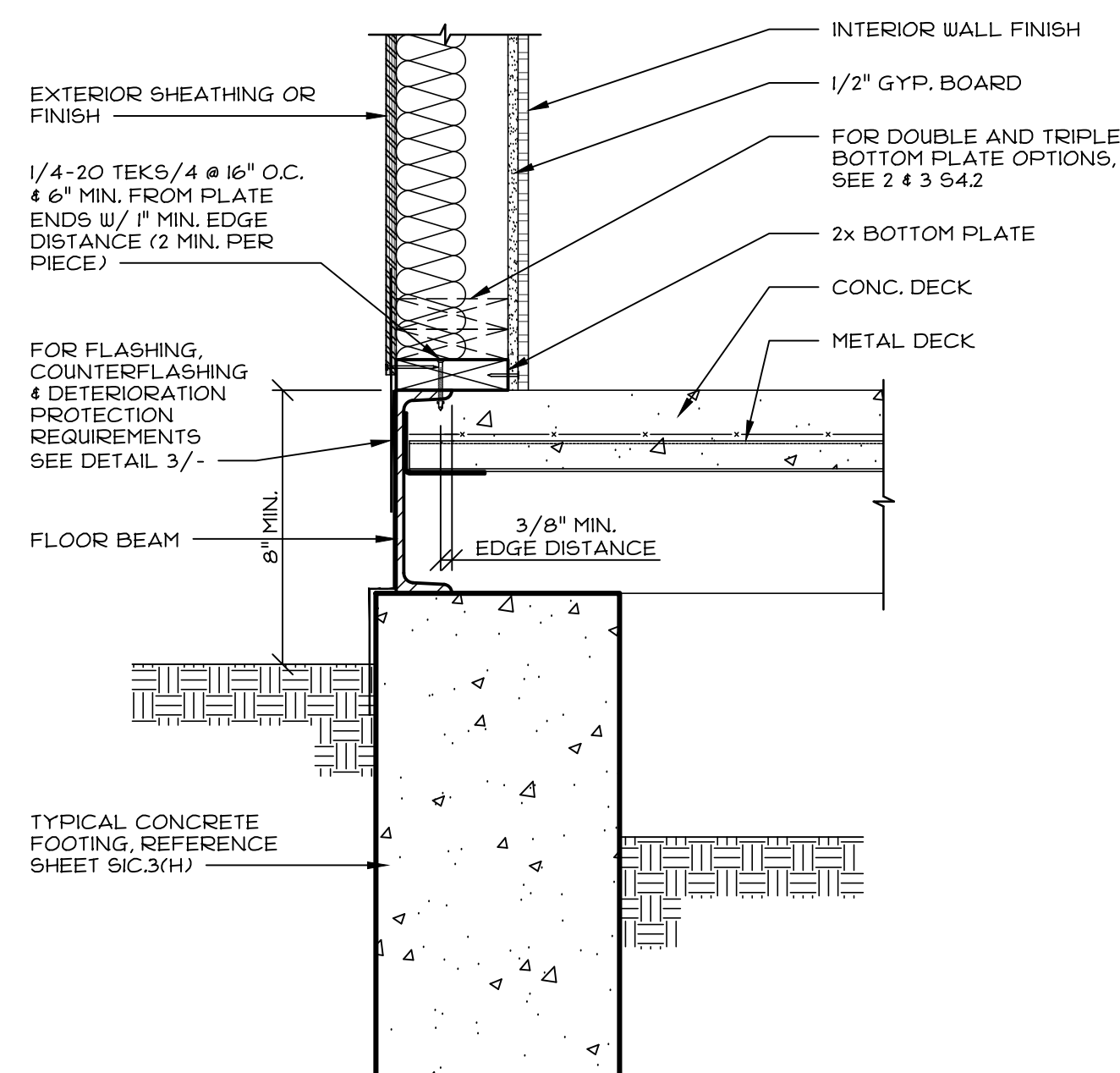
1. ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS I OR II VAPOR BARRIER.
2. FOR FASTENER SCHEDULE, SEE SHEET S3FA

3	<u>SHEET NOTES</u>
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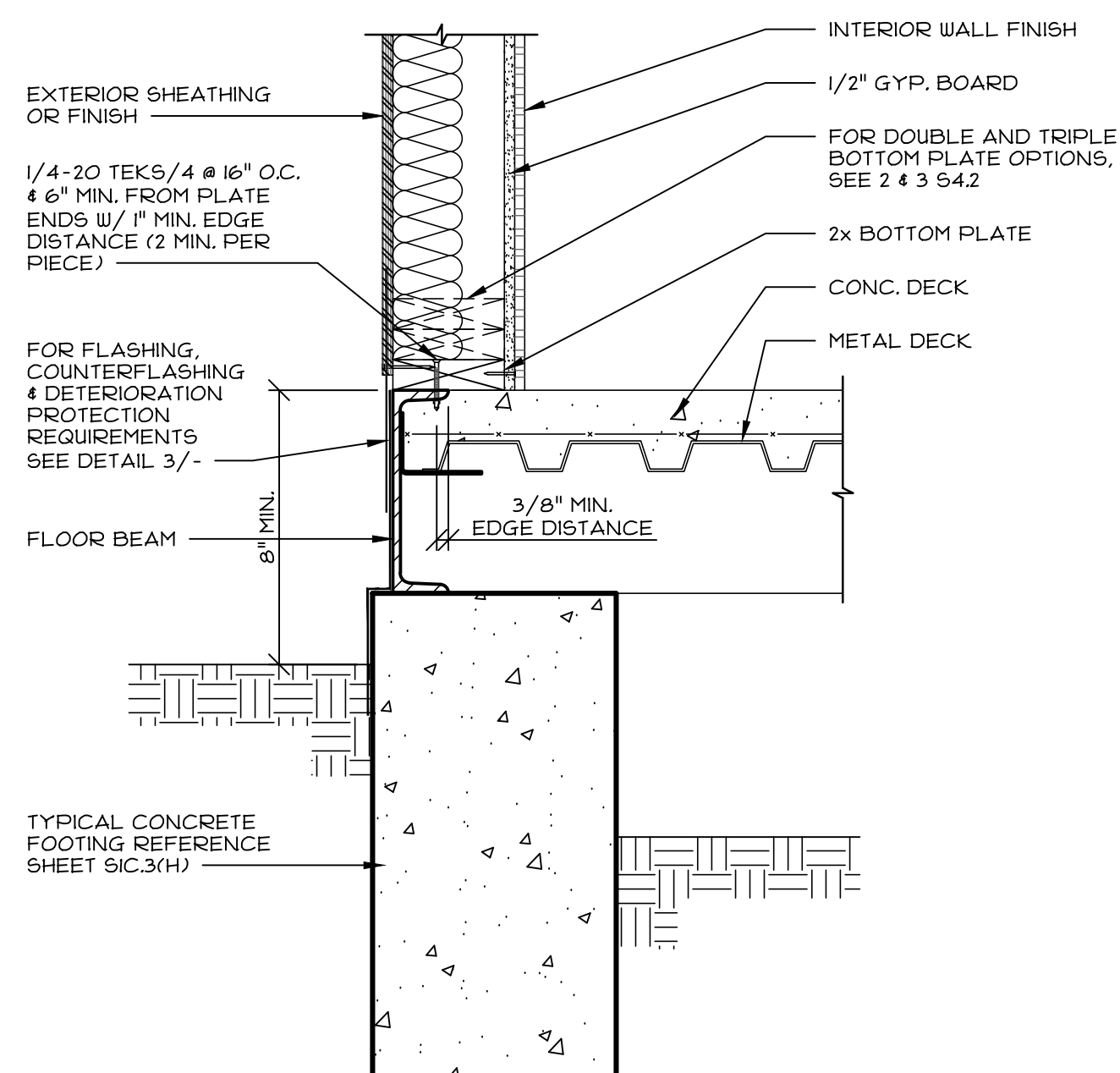
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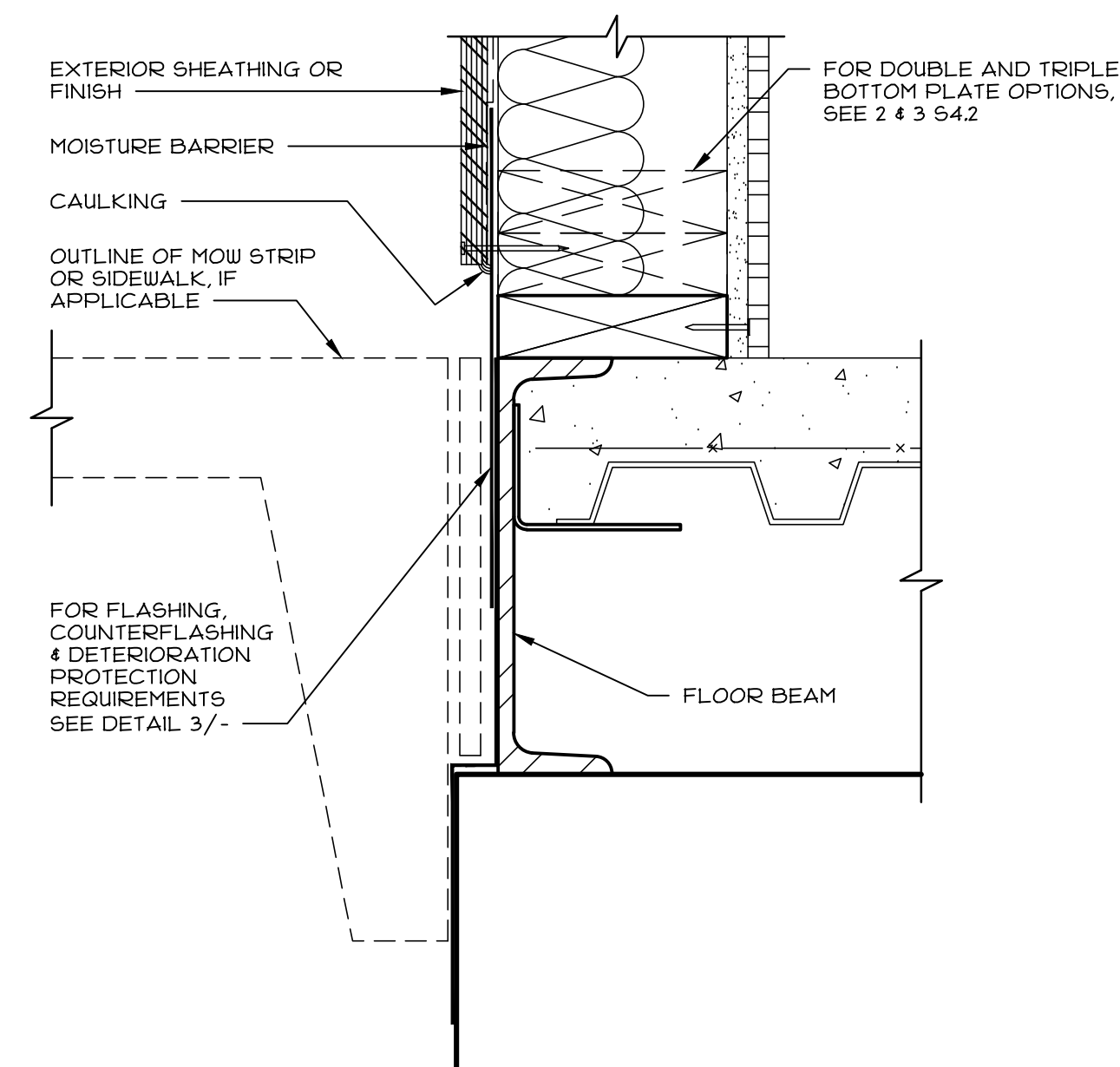
1 WALL SECTION - ENDWALL
SCALE: 1 1/2" = 1'-0"



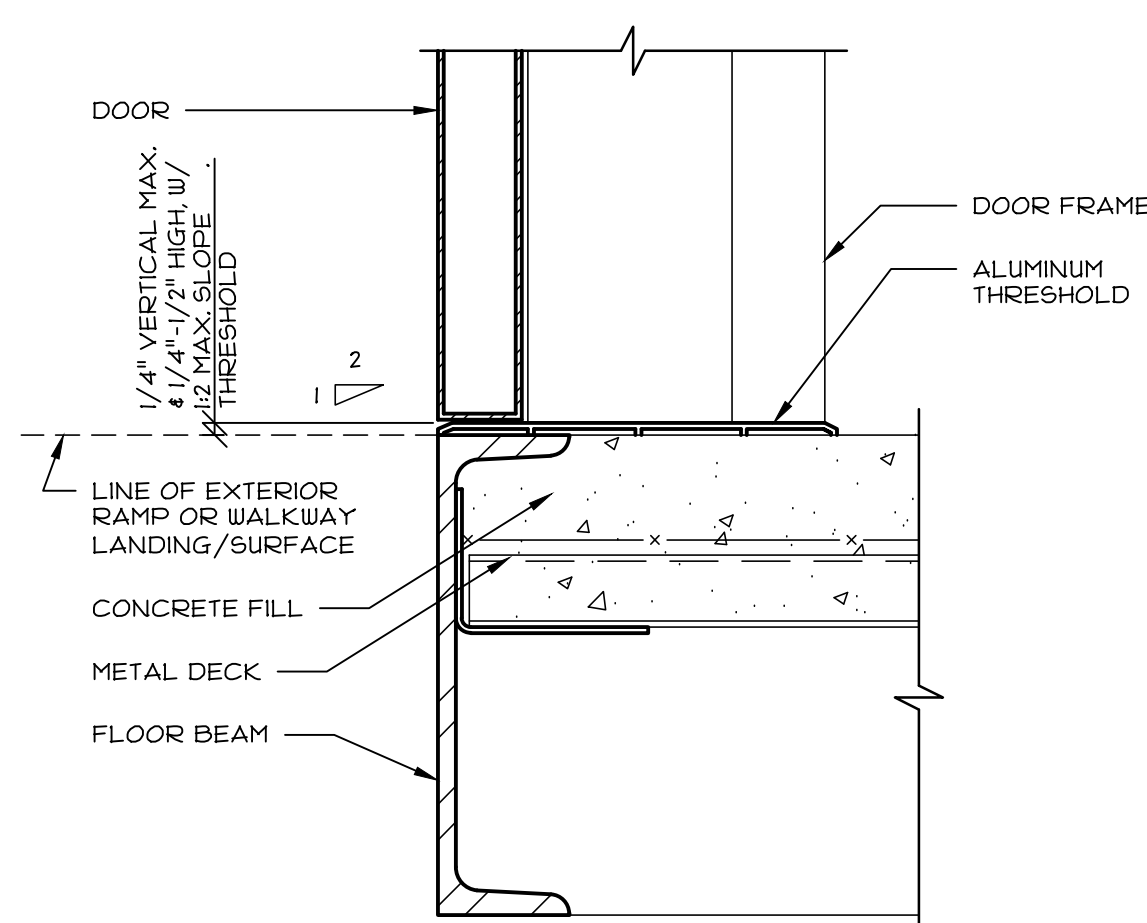
2	<u>WALL SECTION - SIDEWALL</u> SCALE: 1/2"=1'-0"
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SHEET REFERENCES		
STUD SIZE	BUILDINGS UNDER 2160 S.F.	BUILDINGS OVER 2160 S.F.
2x6 ~~OR 2x8~~	A6.4	~~A6.6~~

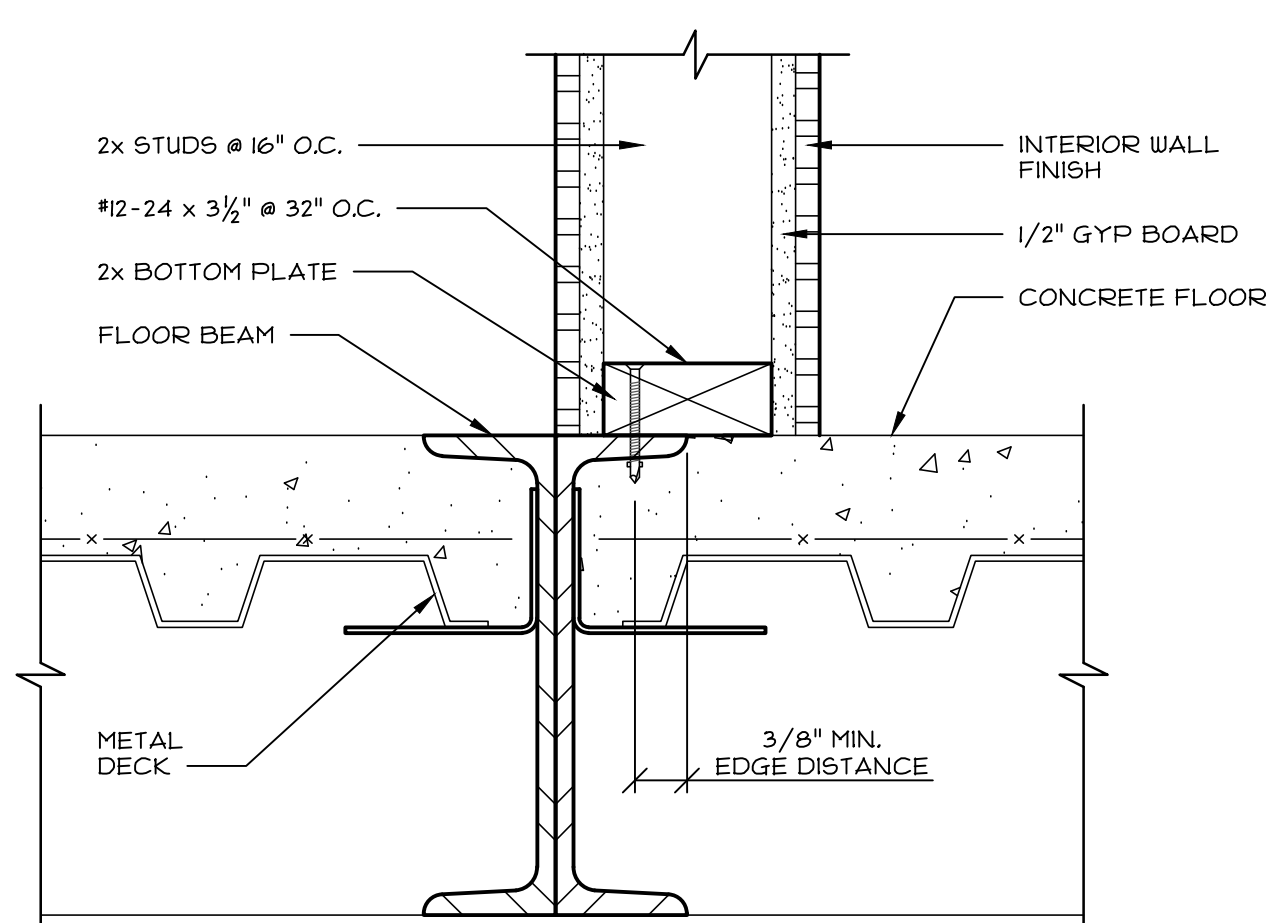
3	<u>DETERIORATION PROTECTION</u>
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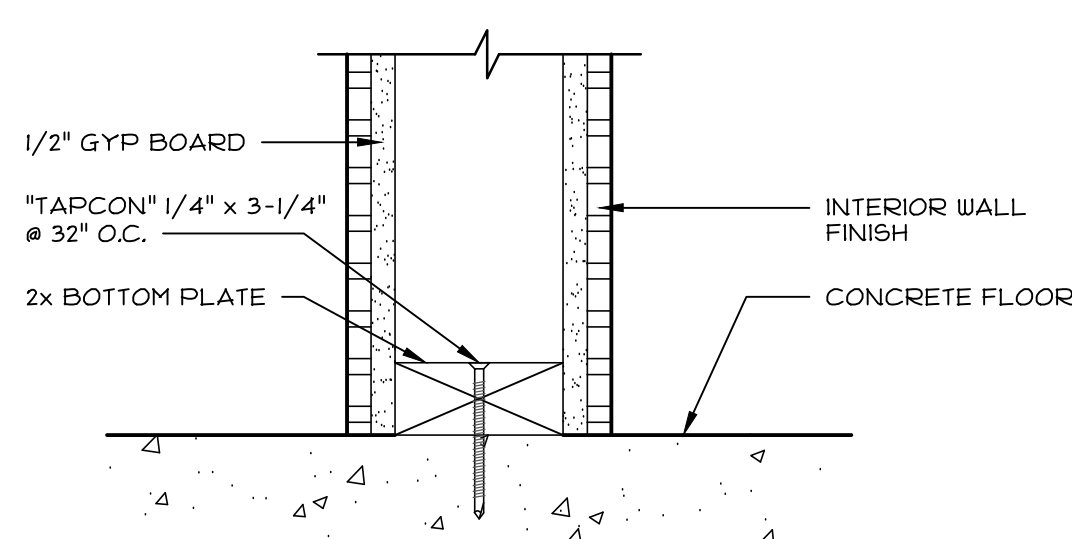
4	BASE FLASHING DETAIL - (CONC. FLOOR) SCALE: 3"=1'-0"
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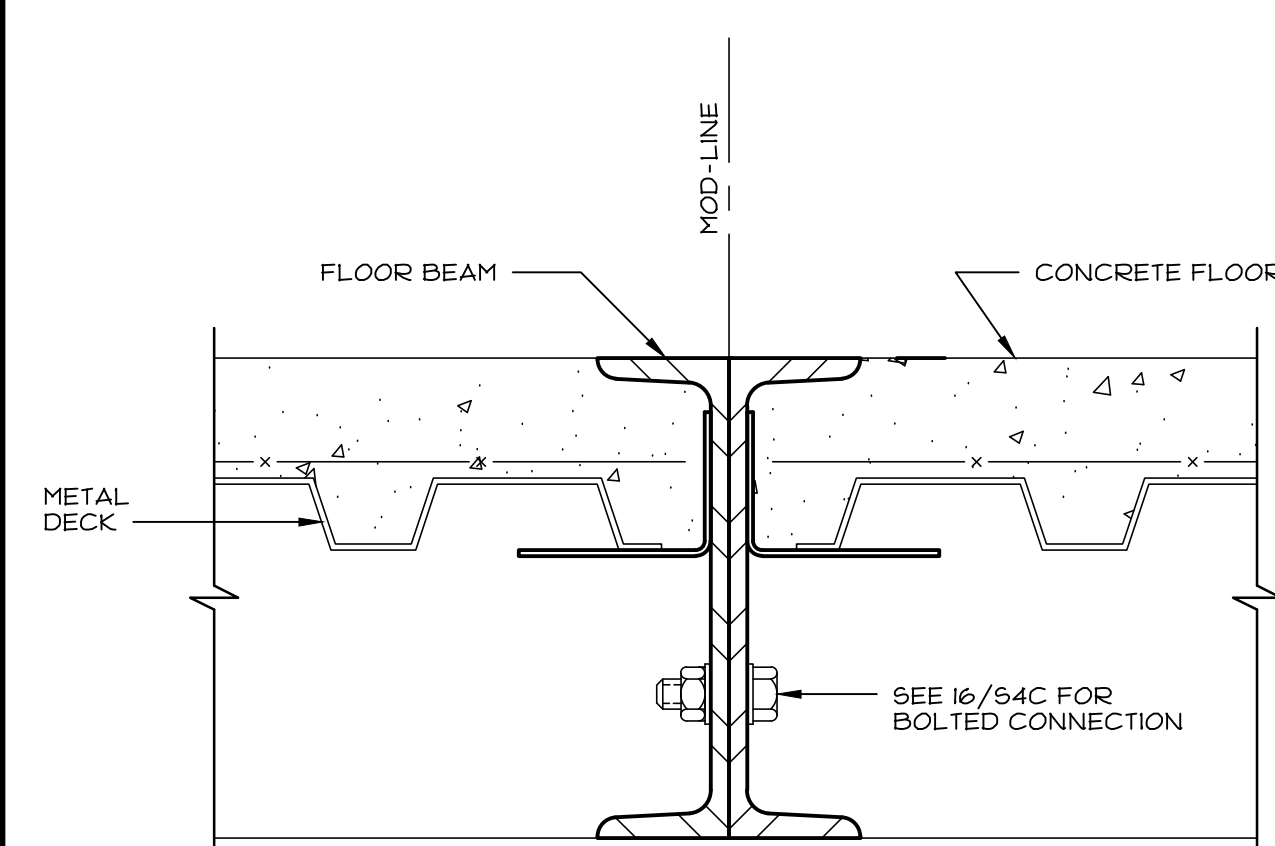
5 DOOR THRESHOLD - (CONC. FLOOR)
SCALE: 3"=1'-0"



6	INTERIOR WALL ATTACHMENT @ FLOOR BEAM SCALE: 3"=1'-0"
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7	<u>INTERIOR WALL TO FLOOR ATTACHMENT DETAIL</u> SCALE: 3"=1'-0"
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8 SECTION - @ MODULE LINE

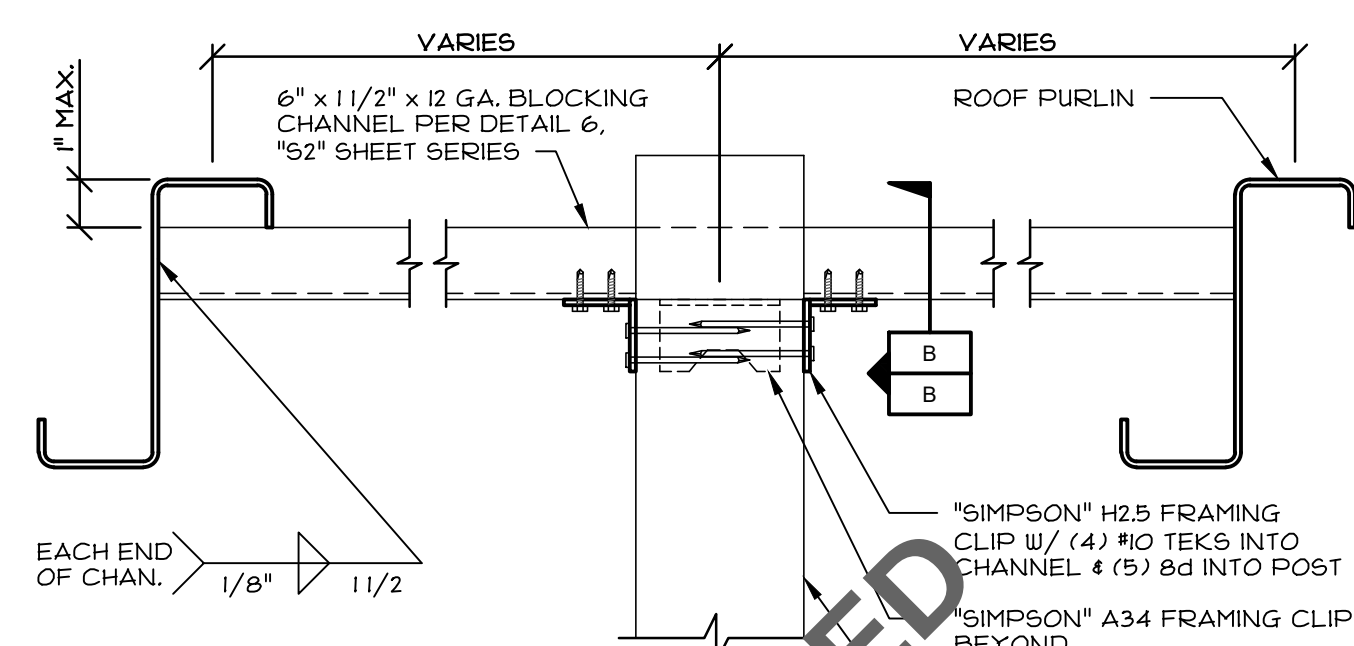
NOTES:

1. ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS I OR II VAPOR BARRIER.
2. FOR FASTENER SCHEDULE, SEE SHEET S3FA
3. 2x4, 2x6 ~~OR 2x8~~ FRAMING MAY BE USED

9	<u>SHEET NOTES</u>
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Code: 2019 CBC
A separate project application for construction is required.

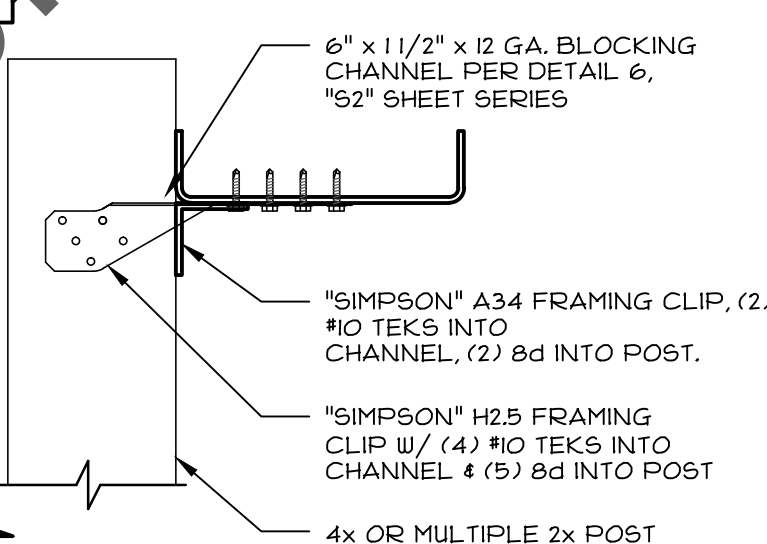
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NOTE:
1) HALF WALL HEIGHT SHALL BE 4'-0" MAX.
2) HALF WALL SHALL HAVE 2x4 MIN. STUDS SPACED AT 16" O.C.
3) HALF WALL SHALL BE FRAMED WITH DOUBLE TOP PLATE W/O SPLICE AND "SIMPSON" A34 EA. END.
4) FULL HEIGHT POST SHALL OCCUR NO MORE THAN 12'-0" BETWEEN POSTS OR NEAREST CONNECTING WALL.

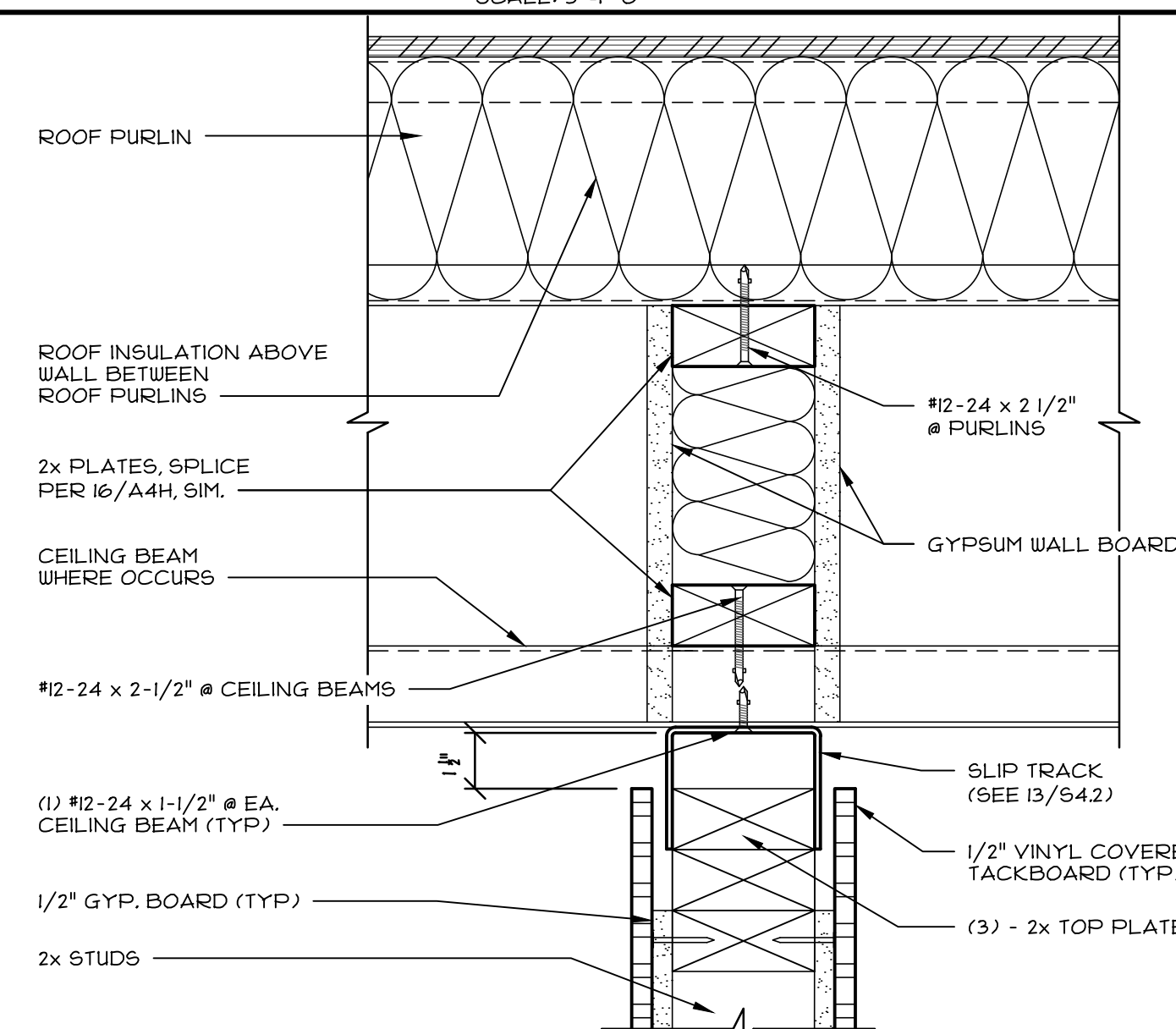
NOTE:
SEE DETAILS 3 AND 10 TH
SHEET FOR INFORMATION
NOT SHOWN

SECTION A-A

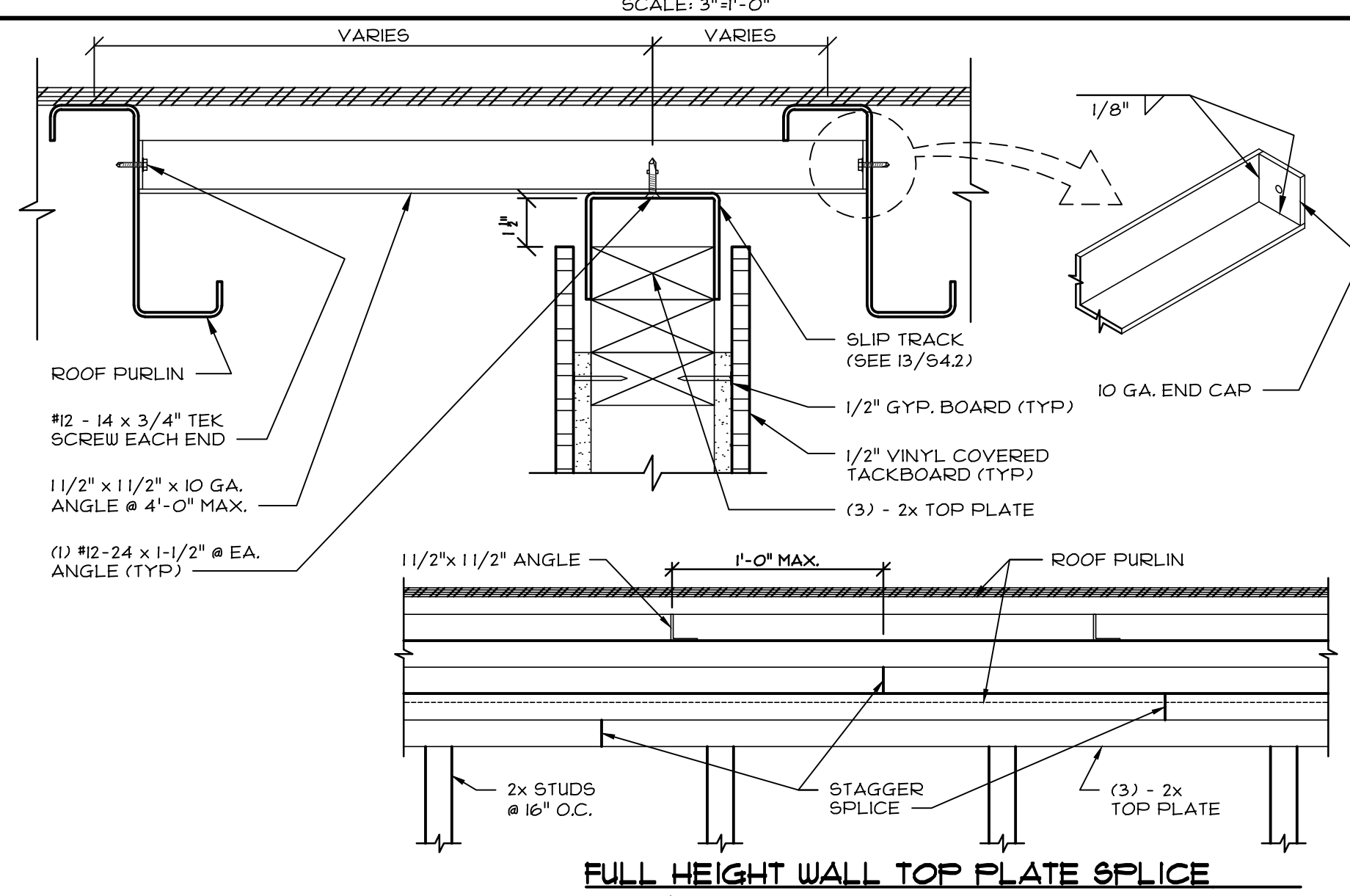


SECTION B-B

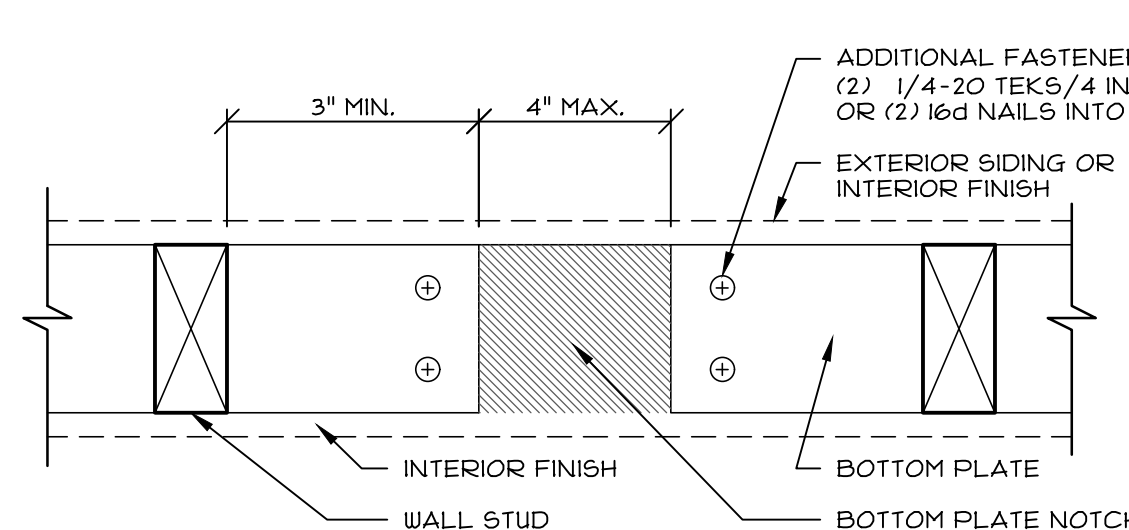
11	TOP CONNECTION - FULL HT. POST FOR HALF WALLS 90° AL E, 3" x 1'-0"
----	---



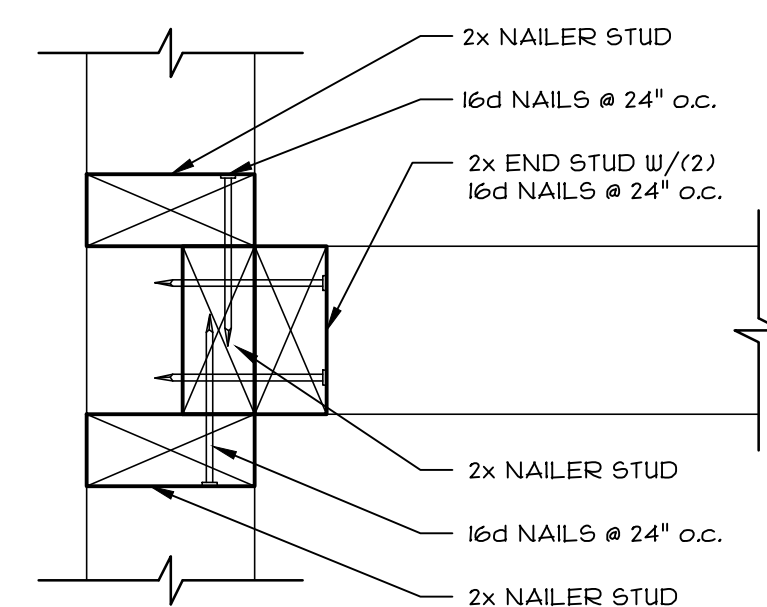
12	FULL HEIGHT PRIVACY WALL - PERP. TO PURLINS
----	---



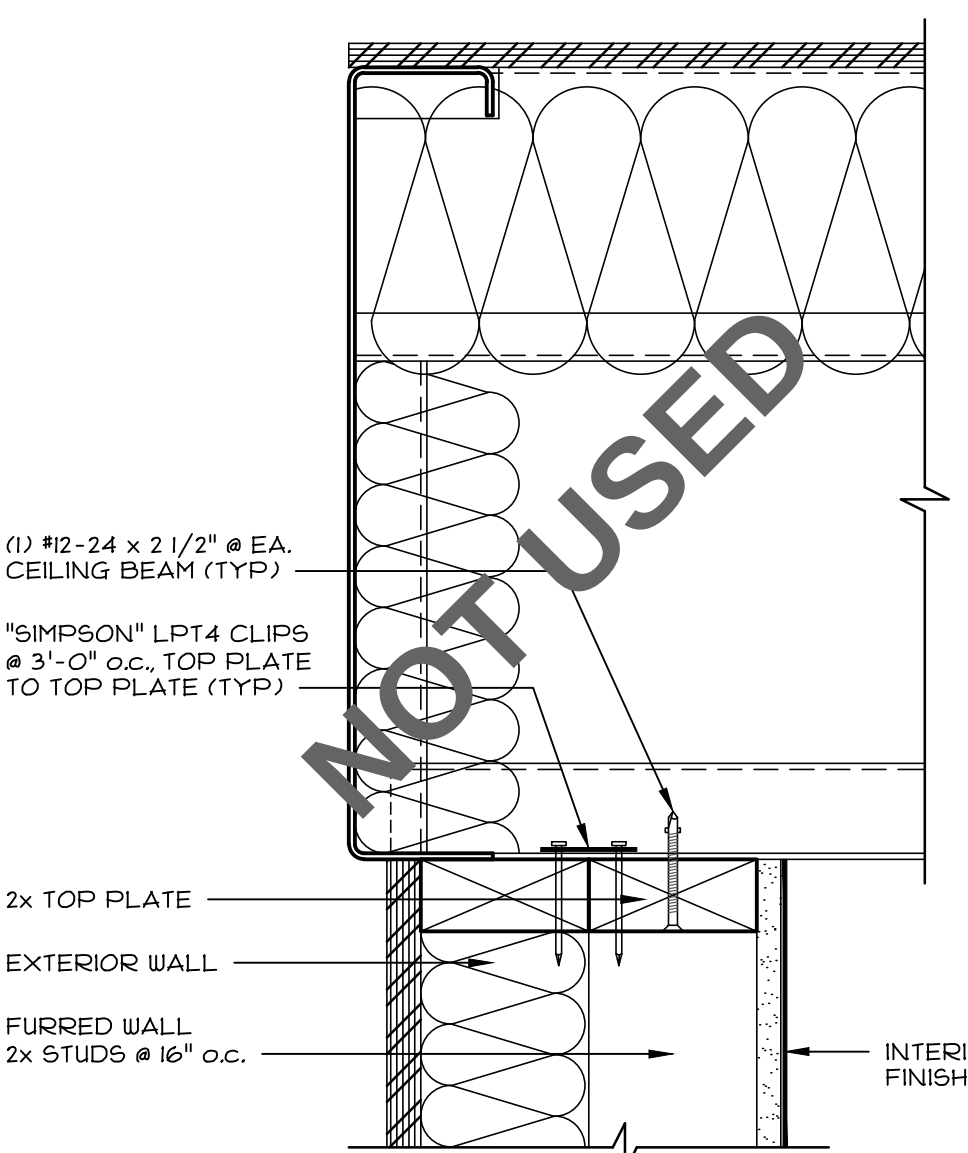
13 FULL HEIGHT PRIVACY WALL - PARALLEL TO PURLINS
SCALE: 3/4" = 1' 0"



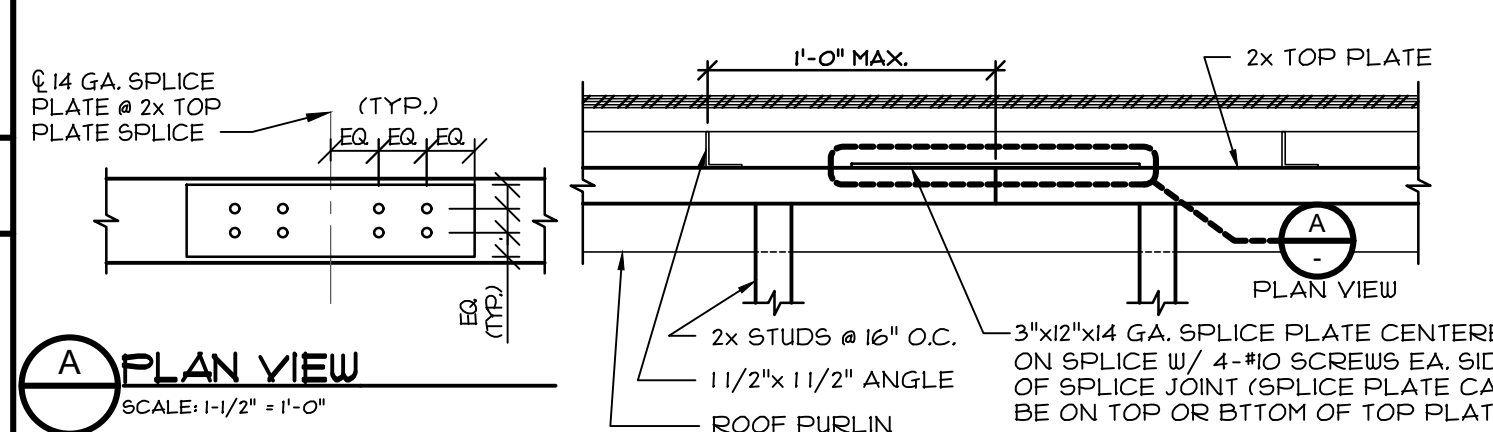
1	<u>ALLOWABLE BOTTOM PLATE NOTCH</u>
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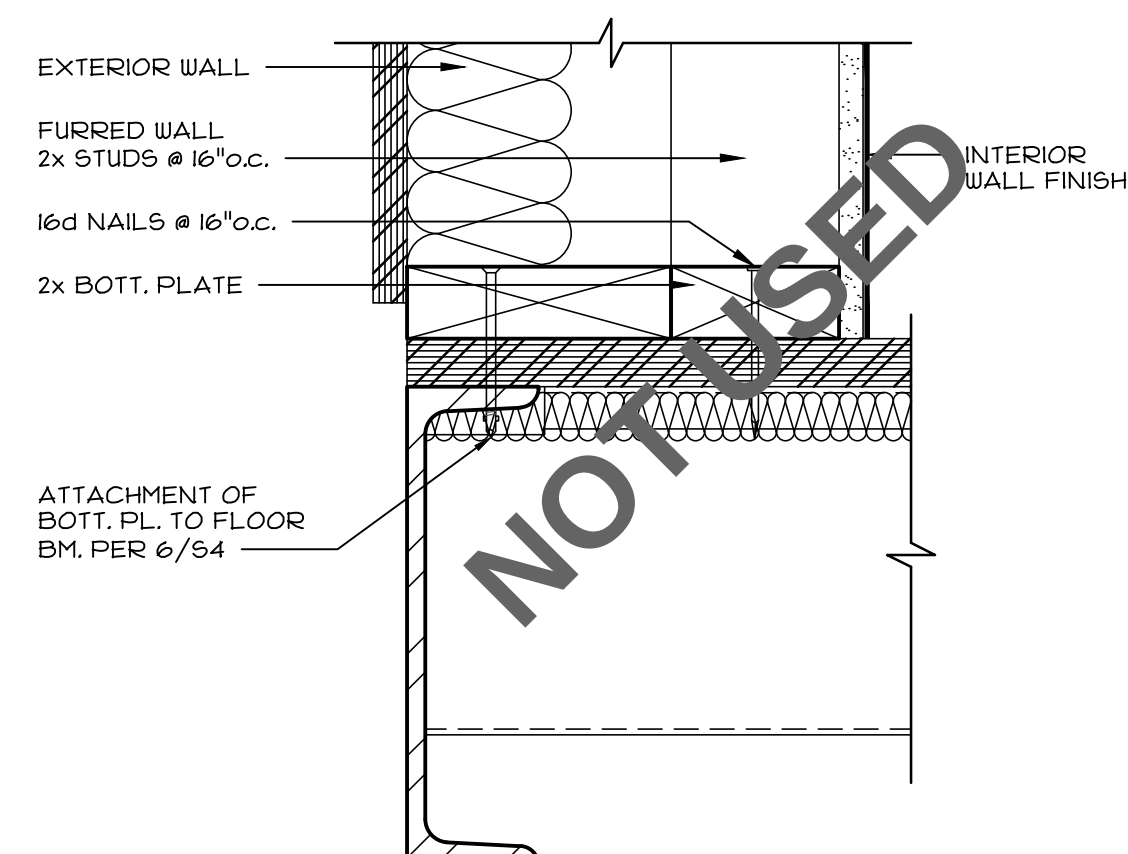
4	<u>PERPENDICULAR WALL CONNECTION</u>
---	--------------------------------------



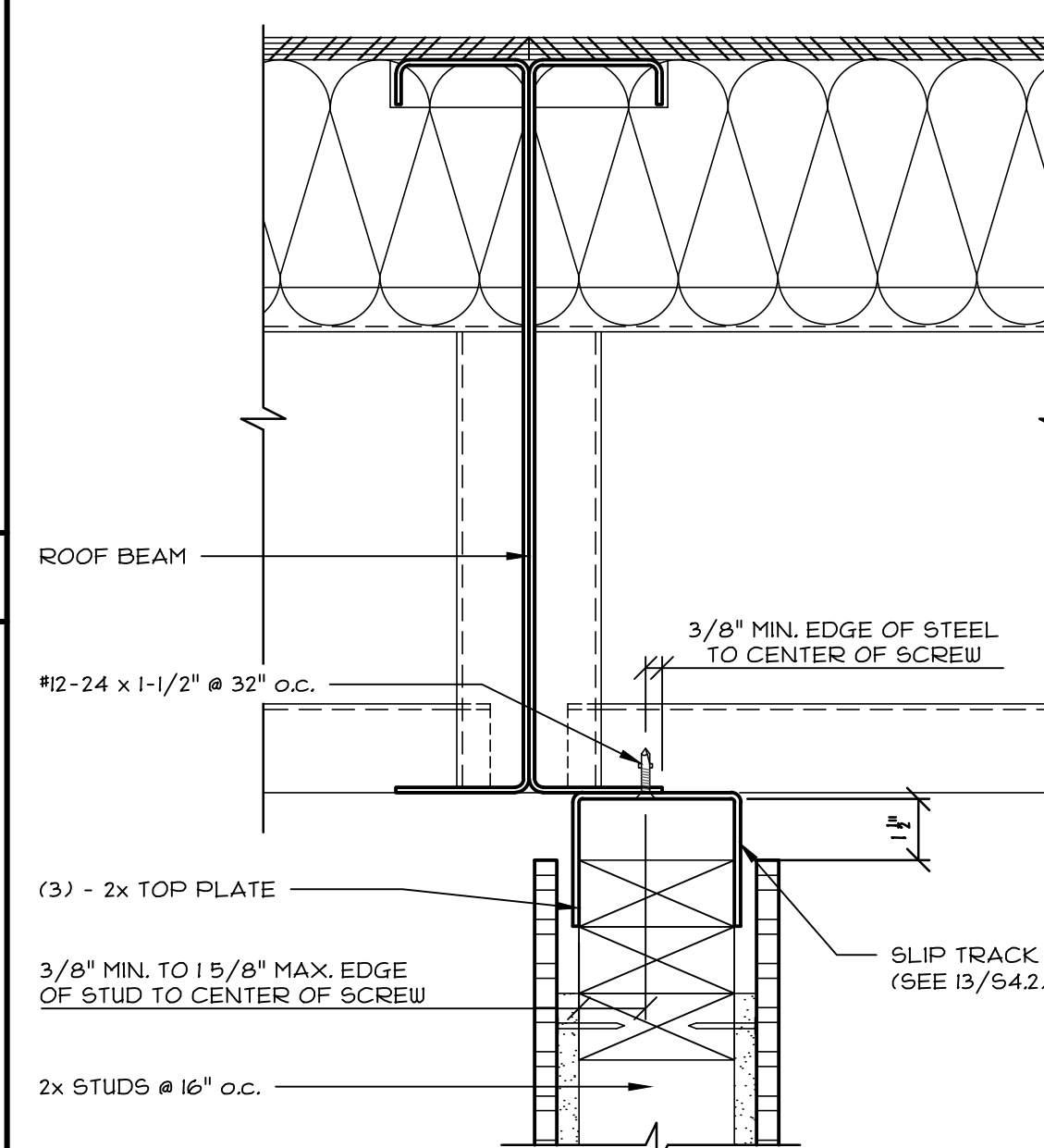
6	FURRED WALL - TOP PLATE CONNECTION
---	------------------------------------



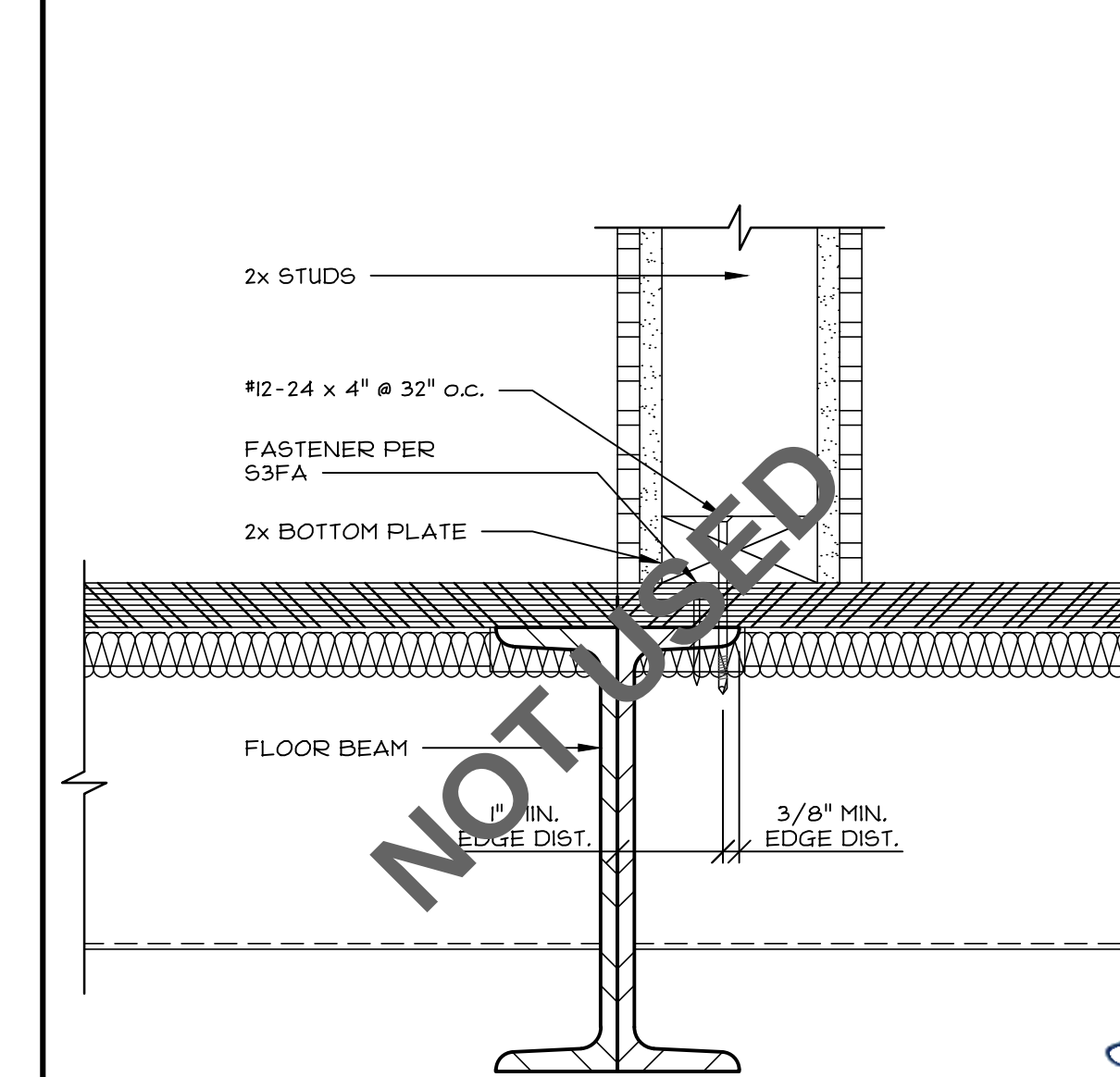
16	FULL HEIGHT WALL TOP PLATE SPLICE
----	-----------------------------------



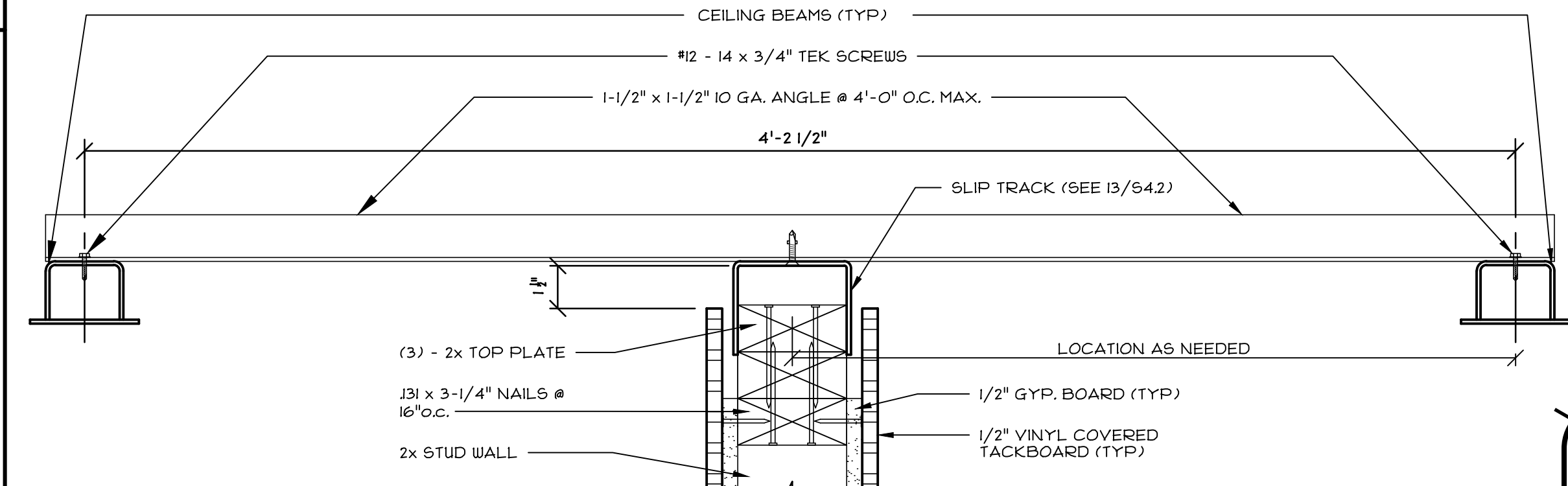
9	FURRED WALL - BOTTOM PLATE CONNECTION
---	---------------------------------------



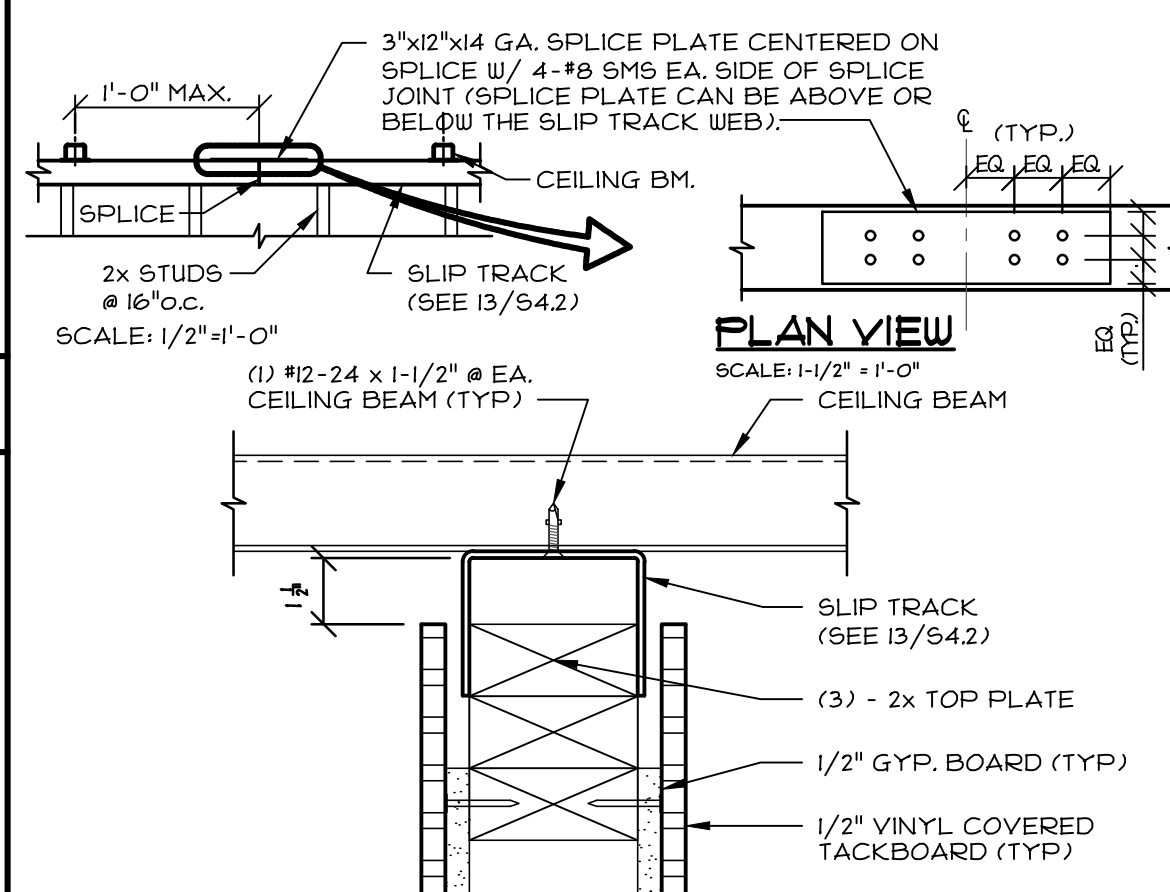
2	INT. TOP PLATE TO ROOF BEAM
---	-----------------------------



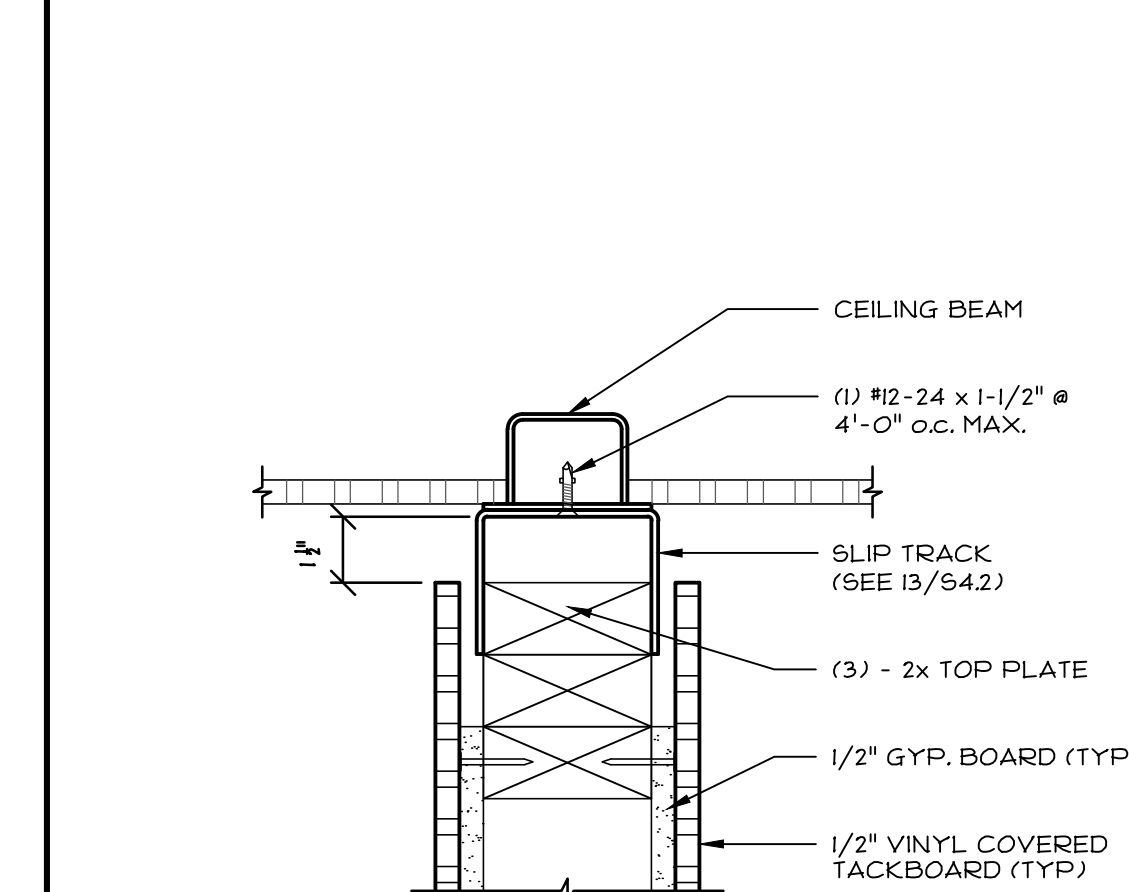
3	INT. BOTTOM PLATE TO FLOOR BEAM
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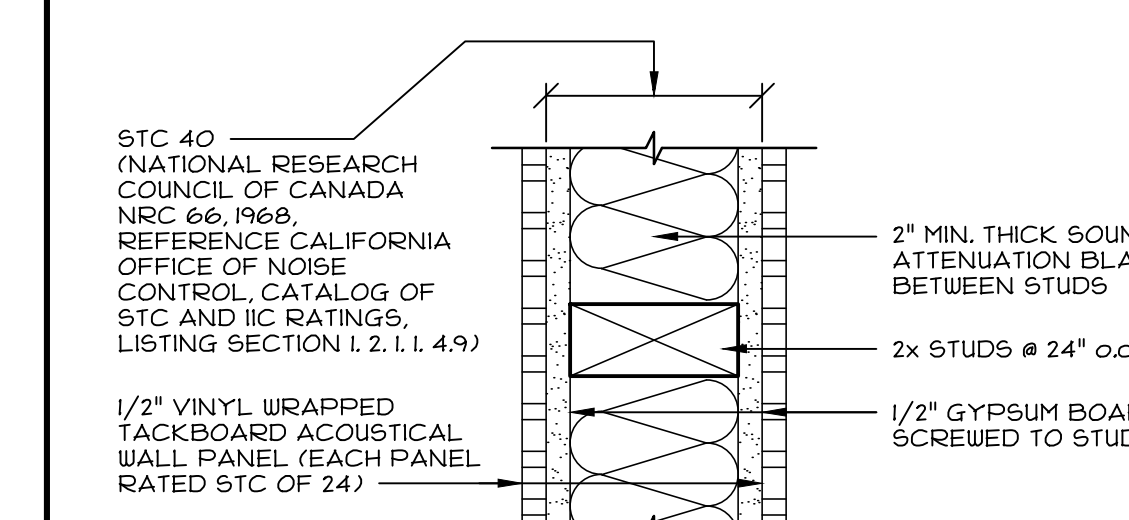
5	TOP PLATE ATTACHMENT BETWEEN CEILING BEAMS
---	--



7	TOP PLATE TO CEILING BEAM
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8	<u>TOP PLATE TO CEILING BEAM</u>
---	----------------------------------



14	<u>TYP. INTERIOR WALL STC RATING</u>
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NOTES:

1. ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS I OR II VAPOR BARRIER.
2. FOR FASTENER SCHEDULE, SEE SHEET 53FA
3. 2x4, 2x6 OR ~~2x8~~ FRAMING MAY BE USED

15	<u>SHEET NOTES</u>
----	--------------------

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																												RESTROOM FACILITIES IDENTIFICATION SYMBOLS 1/4\"/>		NOTE: EDGES AND CORNERS OF SIGNS SHALL BE EASED OR ROUNDED 1/16\"/>		INTERNATIONAL SYMBOL OF ACCESSIBILITY: SHALL COMPLY WITH FIGURE IB-103.121 THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE COLOR NO. 6090 IN FEDERAL STANDARDS SPEC.		5 RESTROOM DOOR & ROOM IDENTIFICATION SIGNAGE SCALE: 3/8\"/>		NAMES, NUMBERS, OR LETTERS ONLY: THE MOST LOGICAL IDENTIFICATION SYSTEM FOR ROOMS OR OFFICES IS TO USE NUMBERS, LETTERS, OR COMBINATIONS OF NUMBERS AND LETTERS WHICH CAN THEN BE ARRANGED IN LOGICAL ORDER FOR EASY WAYFINDING.		12B LIBRARY EXIT Braille Braille Braille		RAISED CHARACTERS: DEPTH SHALL BE 1/32\"/>		CASE CHARACTERS SHALL BE UPPER CASE.		STYLE SHALL BE SANS SERIF AND SHALL NOT BE OBLIQUE, SCRIPT, DECORATIVE OR OTHER UNUSUAL FORMS.		PROPORTIONS WIDTH OF UPPERCASE LETTER "O" IS 60% MINIMUM AND 100% MAXIMUM OF THE HEIGHT OF UPPERCASE "I".		HEIGHT MEASURED VERTICALLY FROM BASELINE OF THE CHARACTER SHALL BE 5/8\"/>		STROKE THICKNESS THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER.		FINISH CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLASSY FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND.		CHARACTER SPACING SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. THESE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS. SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8\"/>		LINE SPACING SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 150% MINIMUM AND 100% MAX. OF THE RAISED CHARACTER HEIGHT.		FORMAT TEXT SHALL BE HORIZONTAL.		BRAILLE: SHALL BE CONTRACTED (GRADE 2) AND DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH CBC TABLE IB-103.31 THE INDICATION OF AN UPPER-CASE LETTER OR LETTERS SHALL BE USED BEFORE THE FIRST WORD OF A SENTENCE. PROPER NOUNS, AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.		POSITION: POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8\"/>		INSTALLATION: HEIGHT ABOVE FINISHED FLOOR OR GROUND CHARACTERS ON SIGNS SHALL BE LOCATED 48\"/>		LOCATION: SIGNS SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE WHERE AT DOUBLE DOORS, WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF WHERE THE PROVIDED WITH TWO ACTIVE LEAFS THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF A DOUBLE DOOR, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18\"/>		NOTE: ROOM IDENTIFICATION SIGNAGE AND INTERNATIONAL SYMBOLS OF ACCESSIBILITY SIGNAGE SHALL BE PROVIDED BY SCHOOL DISTRICT / OWNER AT SITE. SIGNAGE SHALL BE INSTALLED AT LOCATIONS REQUIRED BY CODE USING THE ABOVE GUIDELINES.		TACTILE EXIT SIGNS SHALL COMPLY WITH THE ABOVE REQUIREMENTS AND ARE REQUIRED WHERE ILLUMINATED EXIT SIGNS ARE PROVIDED BY THE OWNER.		INFORMATIONAL (NON-TACTILE) SIGNAGE: ASSISTIVE LISTENING SIGNS SHALL COMPLY WITH IB-106.00, IB-103.12.4 AND IB-103.5. OCCUPANCY LOAD SIGNS SHALL COMPLY WITH IB-103.5. BOTH TYPES OF SIGNS SHALL BE MOUNTED PER TABLE IB-103.5.5, DEPTH, CASE, STROKE, THICKNESS, CHARACTER SPACING, BRAILLE AND INSTALLATION IN DETAIL DO NOT APPLY TO THESE SIGNS.		10 TYE. TACTILE ROOM ID. SIGNAGE SCALE: 1/2\"/>		PRE-CHECK (PC) DOCUMENT Code: 2019 CBC A separate project application for construction is required.		CONFIDENTIAL MATERIAL—THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC. © COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)		STANDARD ELEMENTARY SCHOOL STANDARD SCHOOL DISTRICT MISCELLANEOUS DETAILS A5		24x40 TO 120x60 P.C.	
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122652 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 10/21/2022

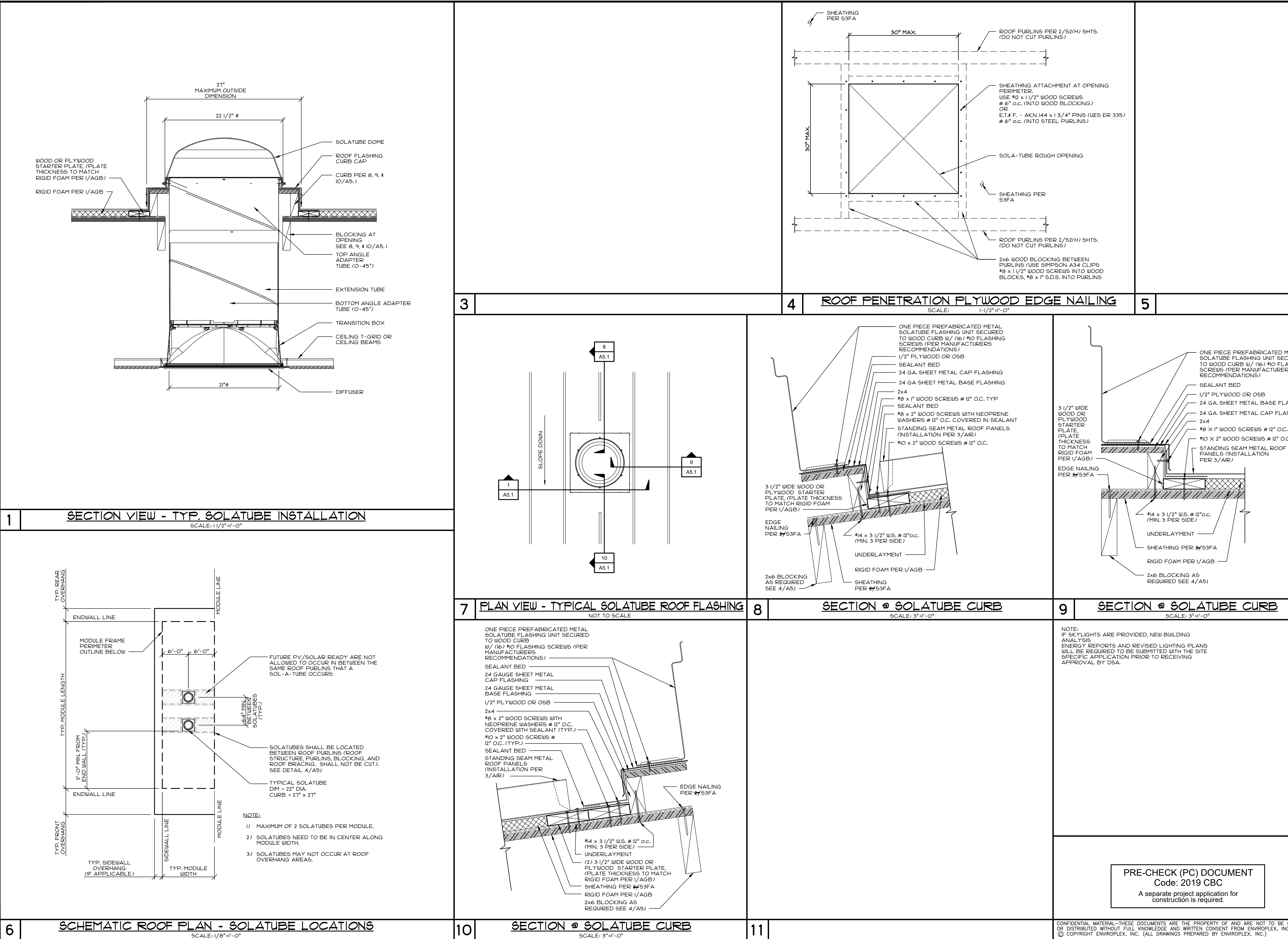
09/15/2022
04/29/2022
06/14/2021

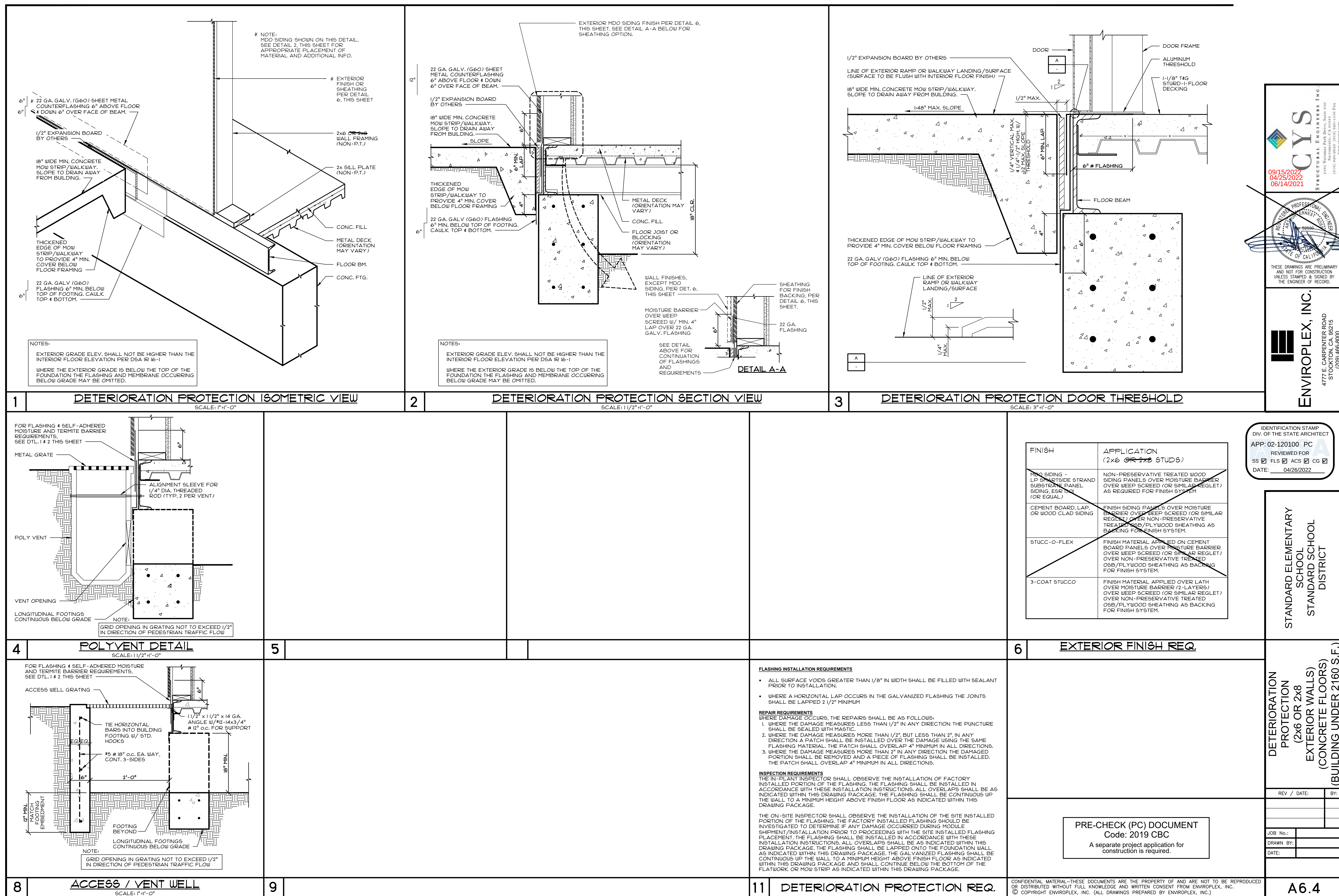
REGISTERED PROFESSIONAL ENGINEER
STRUCTURAL ENGINEERING INC.
477 E CARPENTER ROAD
STOCKTON, CA 95215
(209) 958-9800

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120100 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CG ☒
DATE: 04/26/2022





LONGITUDINAL AND TRANSVERSE STEM WALL REINFORCING NOT SHOWN FOR CLARITY - SEE PLAN VIEW

HAIRPIN

SEE DETAILS 5 & 6 THIS SHEET

1 EMBED PLATE - HAIRPIN PLACEMENT
SCALE: 1/2"=1'-0"

REBAR PER FOUNDATION PLAN

3" CLEAR (TYP.)

#5 HAIRPIN

EMBED WELD PLATE (PER 5/SI)

15" TYP.

36"

24" MIN.

1/2" V 4" OR 1/2" T 4"

PLATE TO HSS

SIZE PER 7/SI

#7 S1 # HRC

#9 S1 # HSS

FLOOR BEAM 4 HSS ABOVE

LONGITUDINAL

TRANSVERSE

1" PER PLAN (2" MIN.)

FOR INFORMATION SHOWN BUT NOT NOTED, SEE 4 OR 5/SI

3 EMBED WELD PLATE & REBAR AT CORNER
SCALE: 1/2"=1'-0"

REBAR PER FOUNDATION PLAN

3" CLEAR (TYP.)

#5 TOP 4 BOT. 12" TYP.

FLOOR BEAM 4 HSS ABOVE

MODULE LINE

LONGITUDINAL

TRANSVERSE

1" PER PLAN (2" MIN.)

15" TYP.

PL. TO FLR. BM. 2-PLACES 1/2" V 2" OR PL. TO FLR. BM. 2-PLACES 1/2" T 2"

PL. TO HSS 2-PLACES 1/2" V 4" OR PL. TO HSS 2-PLACES 1/2" T 4"

#9 S1 # HSS

#7 S1 # HRC

EMBED WELD PLATE (PER 6/SI)

(2) #5 HAIRPINS, SIM. TO 1/SI

FOR INFORMATION SHOWN BUT NOT NOTED, SEE 3/SI

4 EMBED WELD PLATE @ MODLINE (HRC BEAMS)
SCALE: 1/2"=1'-0"

EMBEDDED PLATE (SEE 5 & 6/SI) (SEE FDTN PLAN FOR LOCATIONS)

QTY. 4 LOCATIONS PER 3 & 4/SI

1/2" BEVEL @ WELD LOCATIONS (TYP.) (PARTIAL PENETRATION)

ALT. COND. - 1

EMBEDDED PLATE (SEE 5 & 6/SI) (SEE FDTN PLAN FOR LOCATIONS)

QTY. 4 LOCATIONS PER 3 & 4/SI

1" MAX. 3/4" MIN.

ALT. COND. - 2

7 EMBED PLATE WELDED CONN. @ HRC
SCALE: 1/2"=1'-0"

EMBEDDED PLATE (SEE 5 & 6/SI) (SEE FDTN PLAN FOR LOCATIONS)

QTY. 4 LOCATIONS PER 3 & 4/SI

1/2" BEVEL @ WELD LOCATIONS (TYP.) (PARTIAL PENETRATION)

ALT. COND. - 1

EMBEDDED PLATE (SEE 5 & 6/SI) (SEE FDTN PLAN FOR LOCATIONS)

QTY. 4 LOCATIONS PER 3 & 4/SI

1" MAX. 3/4" MIN.

ALT. COND. - 2

9 EMBED PLATE WELDED CONN. @ HSS
SCALE: 1/2"=1'-0"

BAR BEND DIAMETER "D", USE D=4d FOR #3 BARS

36" TYP. UNLESS NOTED OTHERWISE

30°

2 TYP. REINFORCING BAR BENDS
SCALE: NONE

PLAN VIEW

SIDE VIEW

1" EMBEDDED PLATE - A572 GRADE 50

SET FACE FLUSH WITH TOP OF FOUNDATION WALL

3/8" TYP. OR 1/2" TYP.

A57M A706 REBAR SEE PLAN ABOVE FOR REBAR SIZE

5 EMBED PLATE - CORNER
SCALE: 1/2"=1'-0"

PLAN VIEW

SIDE VIEW

1" EMBEDDED PLATE - A572 GRADE 50

SET FACE FLUSH WITH TOP OF FOUNDATION WALL

3/8" TYP. OR 1/2" TYP.

A57M A706 REBAR SEE PLAN ABOVE FOR REBAR SIZE

6 EMBED PLATE - MODULE LINE
SCALE: 1/2"=1'-0"

PLAN VIEW

SIDE VIEW

1" EMBEDDED PLATE - A572 GRADE 50

SET FACE FLUSH WITH TOP OF FOUNDATION WALL

3/8" TYP. OR 1/2" TYP.

A57M A706 REBAR SEE PLAN ABOVE FOR REBAR SIZE

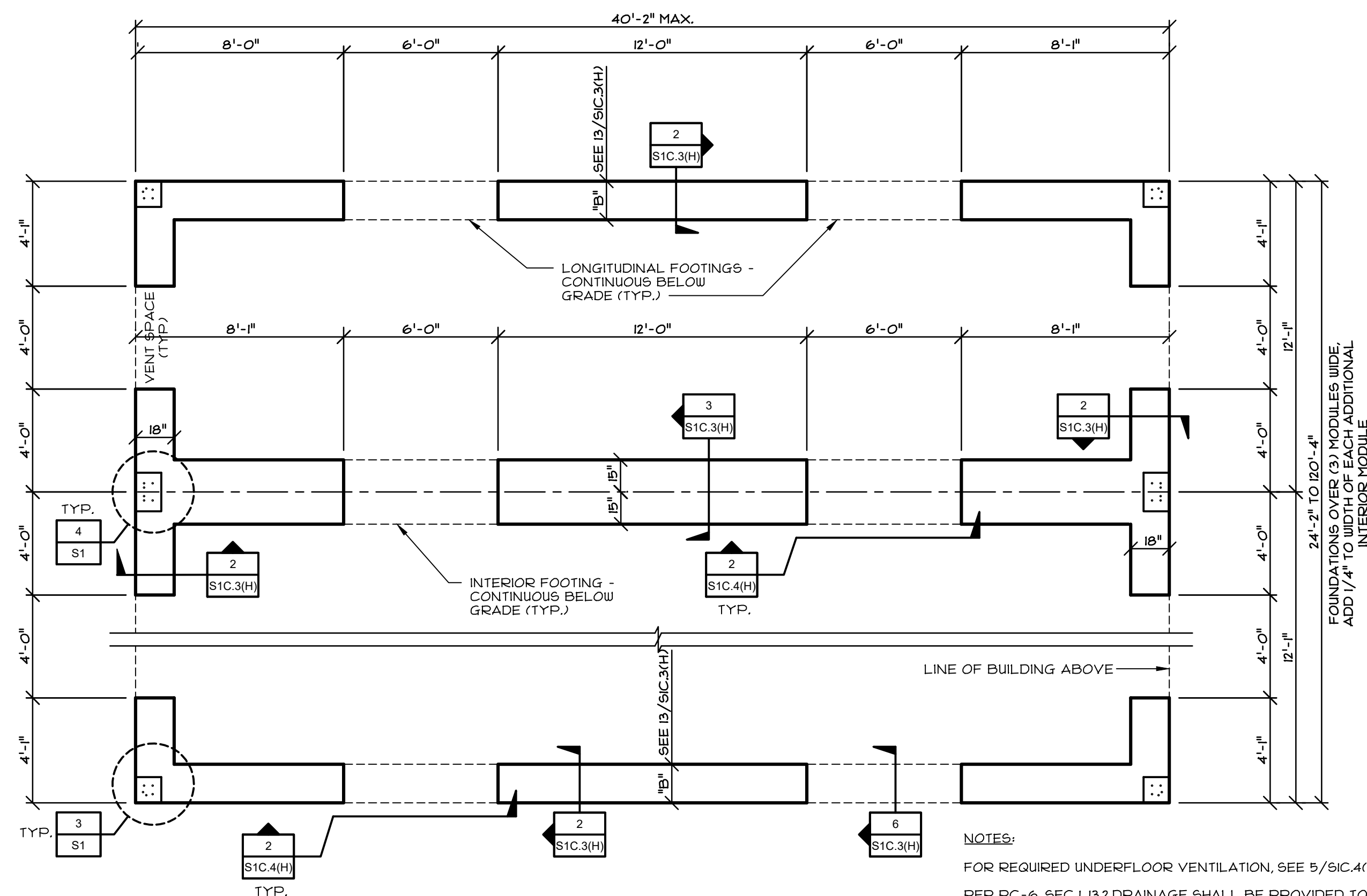
15 REINFORCEMENT LAP SPLICE LENGTHS
SCALE: NONE

FOR USE:
1) 20 PSF ROOF LIVE LOAD W/ 65 psf FLOOR LL.
2) ALL ROOF OPTIONS.
3) ALL EXTERIOR FINISH OPTIONS.

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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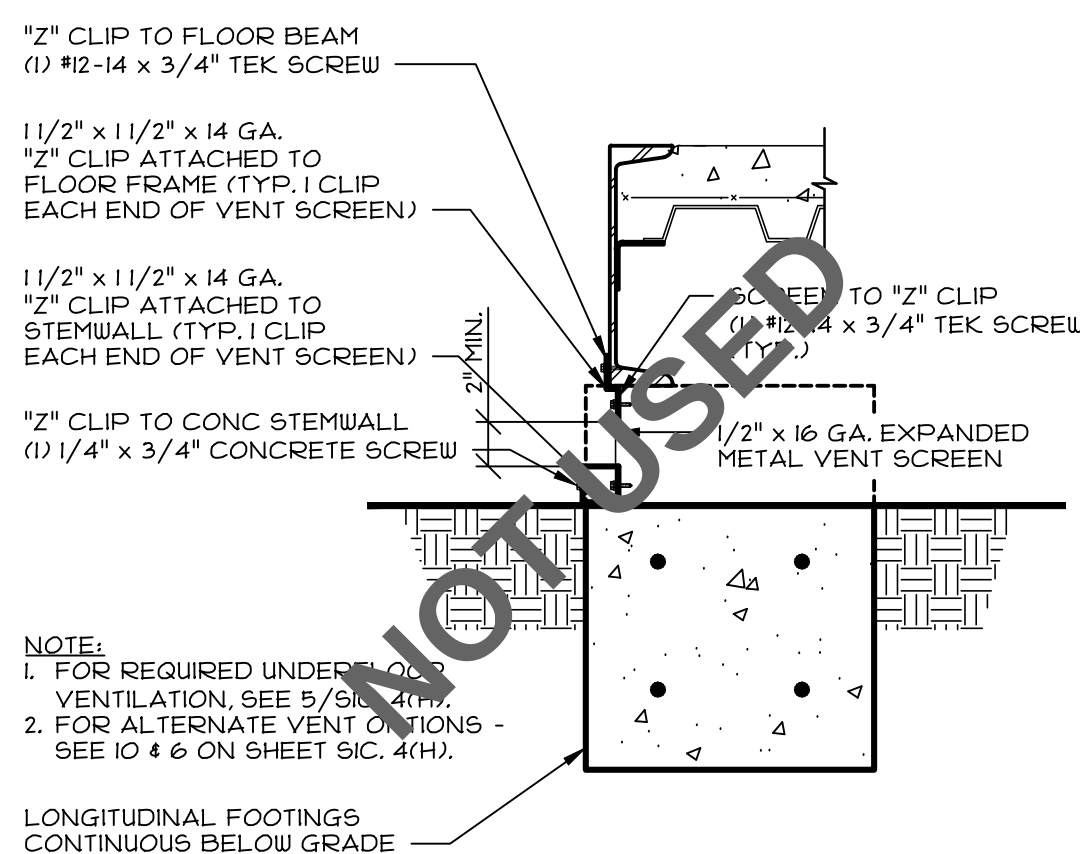
24"x36" TO 120"x60" P.C.



REFERENCE ONLY SEE S1C.5A FOR SITE SPECIFIC PLAN

CONCRETE FOUNDATION PLAN

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



VENT SCREEN DETAIL

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

ALLOWABLE BEARING (psf)	MODULE CONFIGURATION	FOOTING WIDTH "B" (inches)		
		CLASSROOM (50 psf ± 50 + B psf) ☒	15psf	150psf
1500	~~STD BL PITCH STD CHES - NO GUCCO~~		☐	☐
	~~ALL ROOF OPTIONS - NO GUCCO~~	12	15	15
	~~ALL ROOF OPTIONS - STD CHES~~			

13	"B" FOOTING WIDTH SCHEDULE
----	----------------------------

PERIMETER FOOTING DETAIL

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

CONCRETE FLOOR SHEET REFERENCES		
STUD SIZE	BUILDINGS UNDER 2160 S.F.	BUILDINGS OVER 2160 S.F.
2x6 OR 2x8	A6.4	A6.5

DETERIORATION PROTECTION

NOTES:

1. ALL LOADABLE SOIL BEARING PRESSURE IS 1500 G P.S.F.
2. CONCRETE FOR FLOORS SHALL HAVE A MINIMUM STRENGTH AS INDICATED IN THE SULFATE EXPOSURE TABLES BELOW AND WITH 1" MAX ASTM C-33 AGGREGATES PER ACI 308-14 SECTION 26.41.2 AND IN ACCORDANCE WITH CBC SECTION 703.5.3.
3. MIX DESIGN SHALL BE PER ACI 308-14 SECTION 26.4.3.1
4. REINFORCING BARS SHALL BE A603, GRADE 60 MIN.
5. VENTILATION TO MEET REQUIREMENTS PER IQR 16-106, PROVIDE MINIMUM 150. FT. OF NET FREE VENT SPACE PER 100 SQ. FT. (PROVIDE 2" MINIMUM CLEARANCE)
6. TESTING OF REINFORCING BARS USED IN SINGLE STORY BUILDINGS MAY BE WAIVED PROVIDED CERTIFIED MILL TEST REPORTS ARE PROVIDED FOR EACH SHIPMENT OF SUCH REINFORCEMENT (CBC 1930.0).
7. CONCRETE MIX SHALL HAVE WATER CEMENT RATIO PER EXPOSURE TABLES BELOW.
8. ADD WATER REDUCING ADMIXTURE IN COMPLIANCE WITH ASTM C494 TYPE A.
9. CEMENTITIOUS FLY ASH OR SLAG MAY REPLACE A MAX. OF 20% OF CEMENT BY WEIGHT.
10. MIX DESIGN OF "UNKNOWN" EXPOSURE CLASS SHALL BE USED BY DEFAULT IF AT ALL SPECIFIC GEO-TECHNICAL REPORT IS NOT USED NOR AVAILABLE.
11. ALL REBAR LAP SPICES SHALL BE STAGGERED, CLASS B, TYPICAL UNLESS NOTED OTHERWISE, FOR LAP SPICE LENGTH, SEE SCHEDULE 5/5A.

□	EXPOSURE CLASS - S0
---	---------------------

SITE WATER SOLUBLE SULFATE IN SOIL, PERCENT BY MASS:	$\text{SO}_4^{2-} < 0.10 \text{ ppm}$
ASTM C150 CEMENT TYPE:	NO RESTRICTION
COMPRESSIVE STRENGTH:	3000 PSI (MIN.)
WATER CEMENT RATIO:	0.50 MAX

□	EXPOSURE CLASS - S1
---	---------------------

SITE WATER SOLUBLE SULFATE IN SOIL, PERCENT BY MASS:	0.10 ppm < SO_4^{2-} < 0.20 ppm
ASTM C150 CEMENT TYPE:	II
COMPRESSIVE STRENGTH:	4000 PSI (MIN.)
WATER CEMENT RATIO:	0.50 MAX.

□	EXPOSURE CLASS - S2
---	---------------------

SITE WATER SOLUBLE SULFATE IN SOIL, PERCENT BY MASS:	0.20 ppm < SO_4^{2-} < 2.0 ppm
ASTM C150 CEMENT TYPE:	V
COMPRESSIVE STRENGTH:	4500 PSI (MIN.)
WATER CEMENT RATIO:	0.45 MAX.

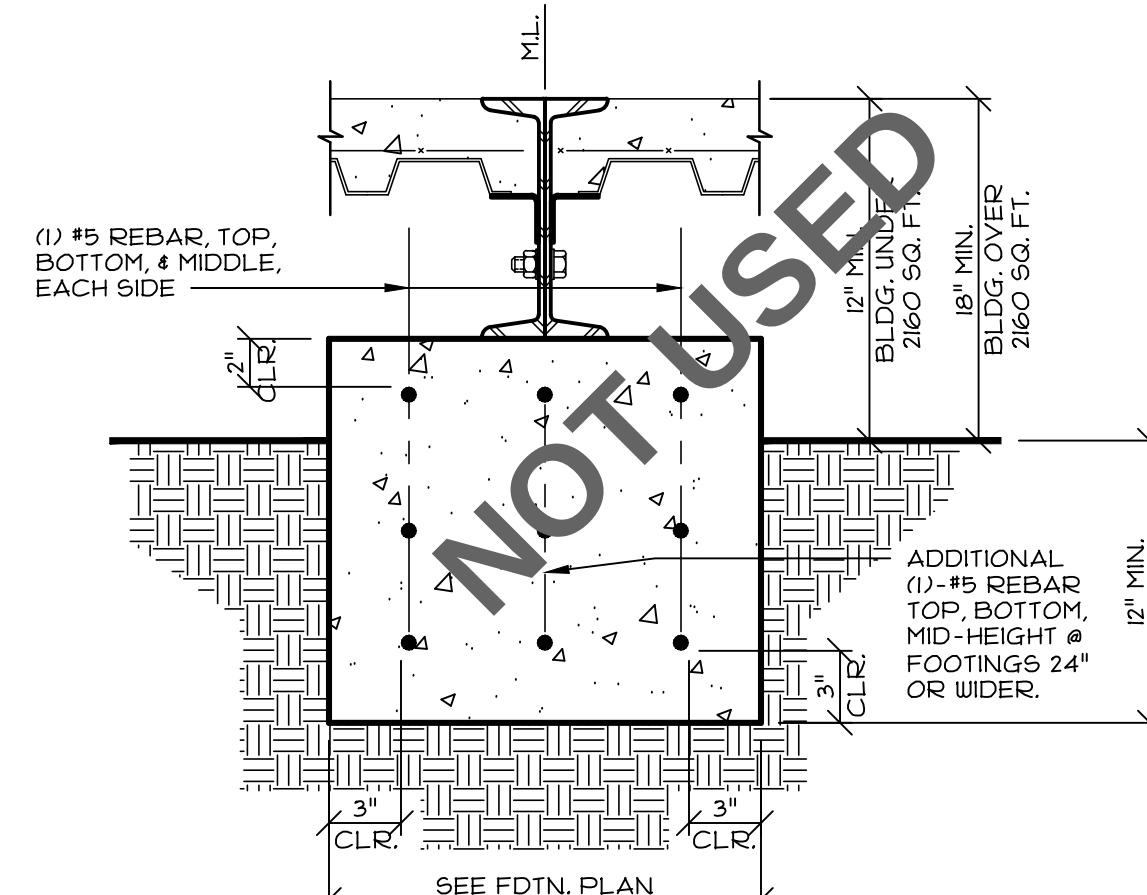
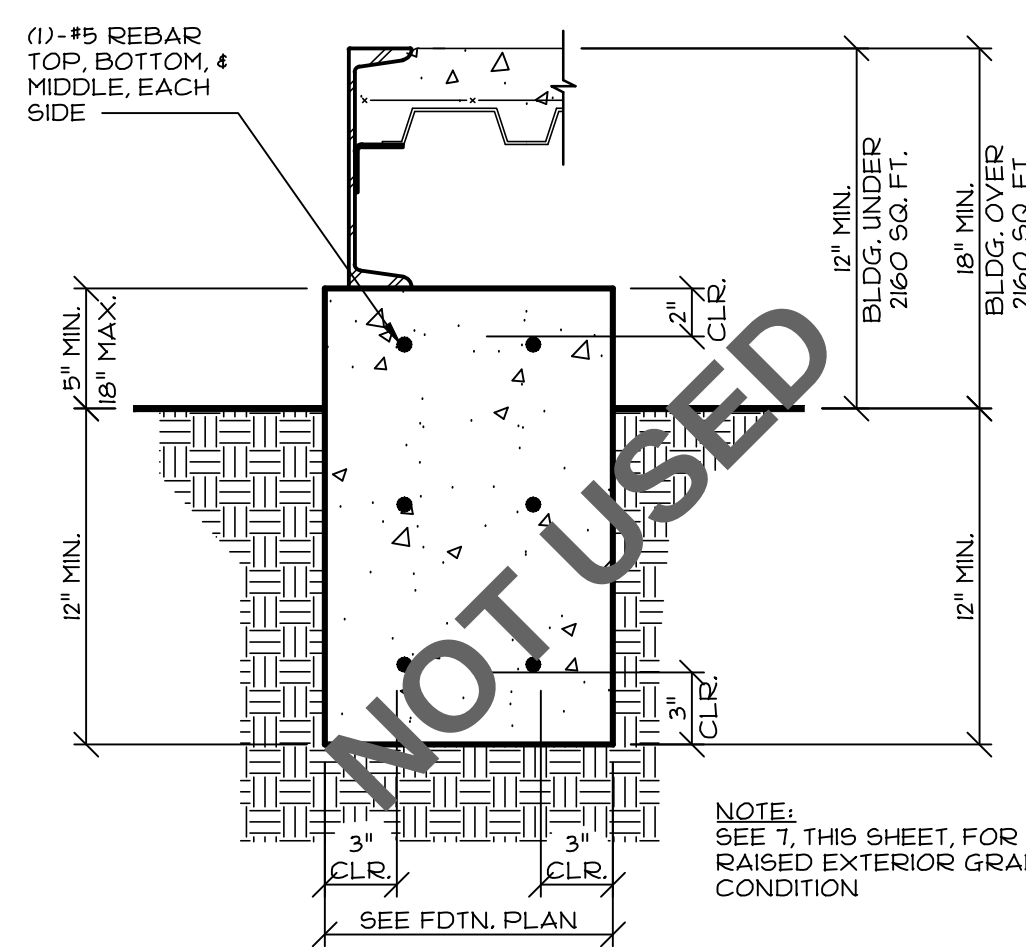
□	EXPOSURE CLASS - S3
---	---------------------

SITE WATER SOLUBLE SULFATE IN SOIL, PERCENT BY MASS:	$\text{SO}_4^{2-} > 2.0$ ppm
ASTM C150 CEMENT TYPE:	V + pozzolan or slag
COMPRESSIVE STRENGTH:	4500 PSI (MIN.)
WATER CEMENT RATIO:	0.45 MAX.

☒	EXPOSURE CLASS - UNKNOWN
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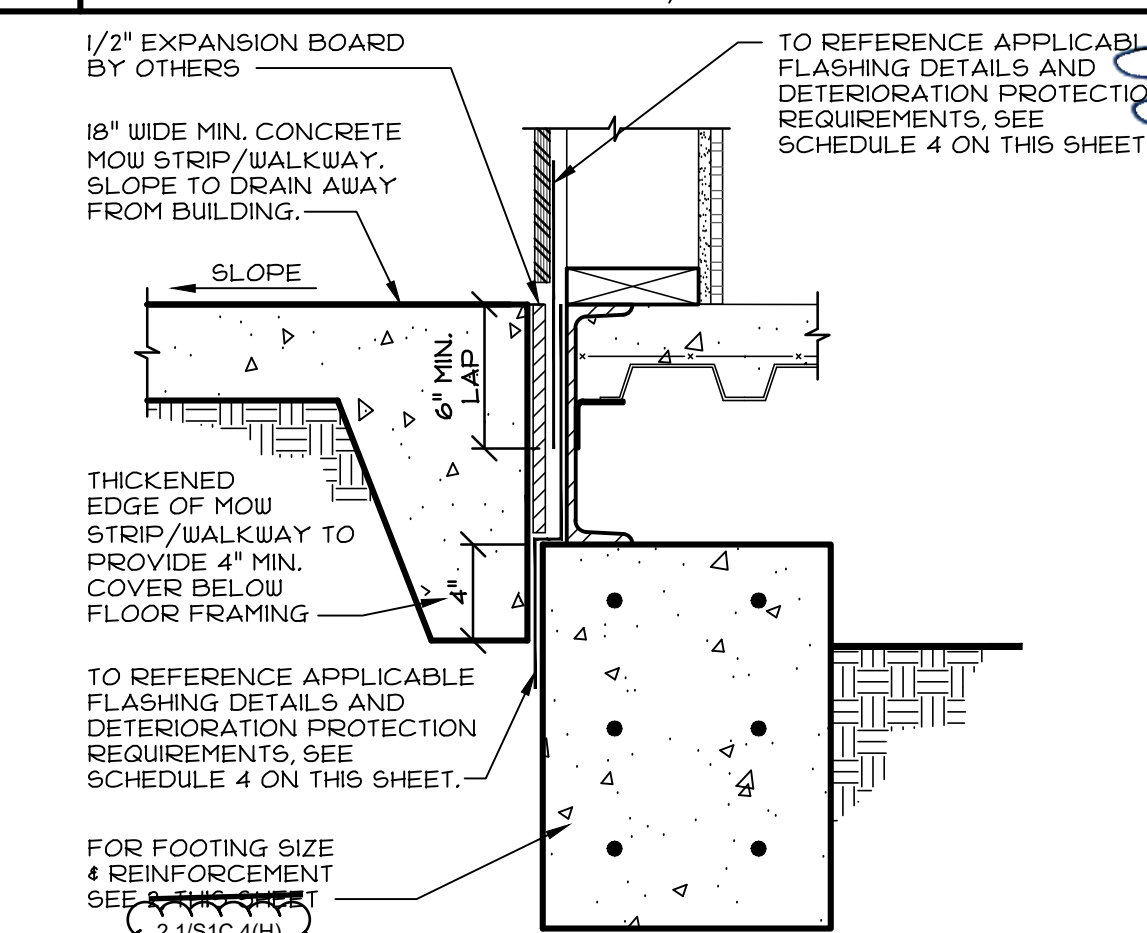
SITE WATER SOLUBLE SULFATE IN SOIL, PERCENT BY MASS:	UNKNOWN
ASTM C150 CEMENT TYPE:	V
COMPRESSIVE STRENGTH:	4500 PSI (MIN.)
WATER CEMENT RATIO:	0.45 MAX.

GENERAL NOTES



INTERIOR FOOTING DETAIL

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



PERIMETER FLASHING DETAIL

SCALE: $1-1/2^8=1^1-0^8$

FOR USE:

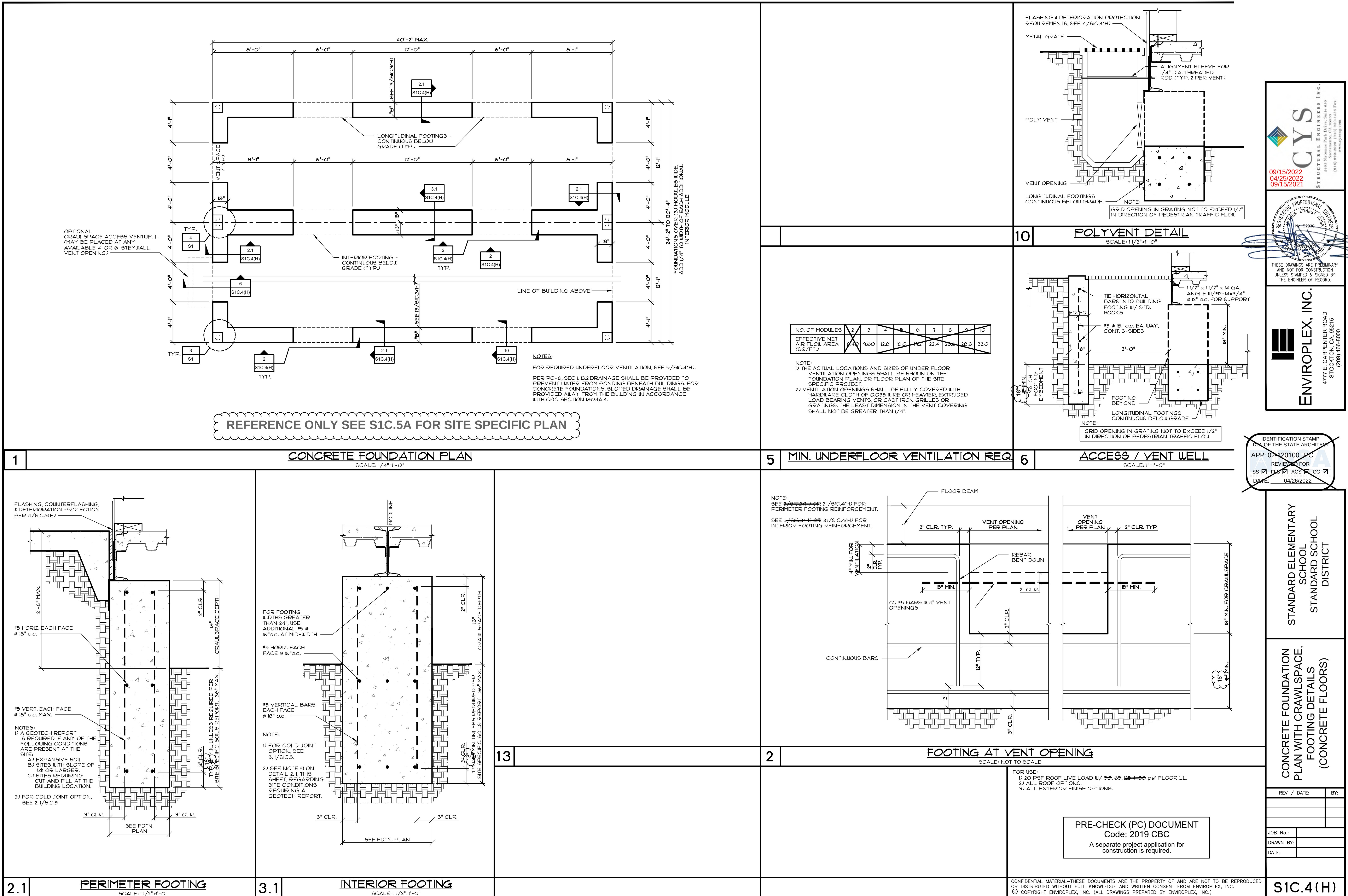
- 1) 20 PSF ROOF LIVE LOAD W/ 50, 65, ~~125~~ 150 psf FLOOR LL
- 2) ALL ROOF OPTIONS.
- 3) ALL EXTERIOR FINISH OPTIONS.

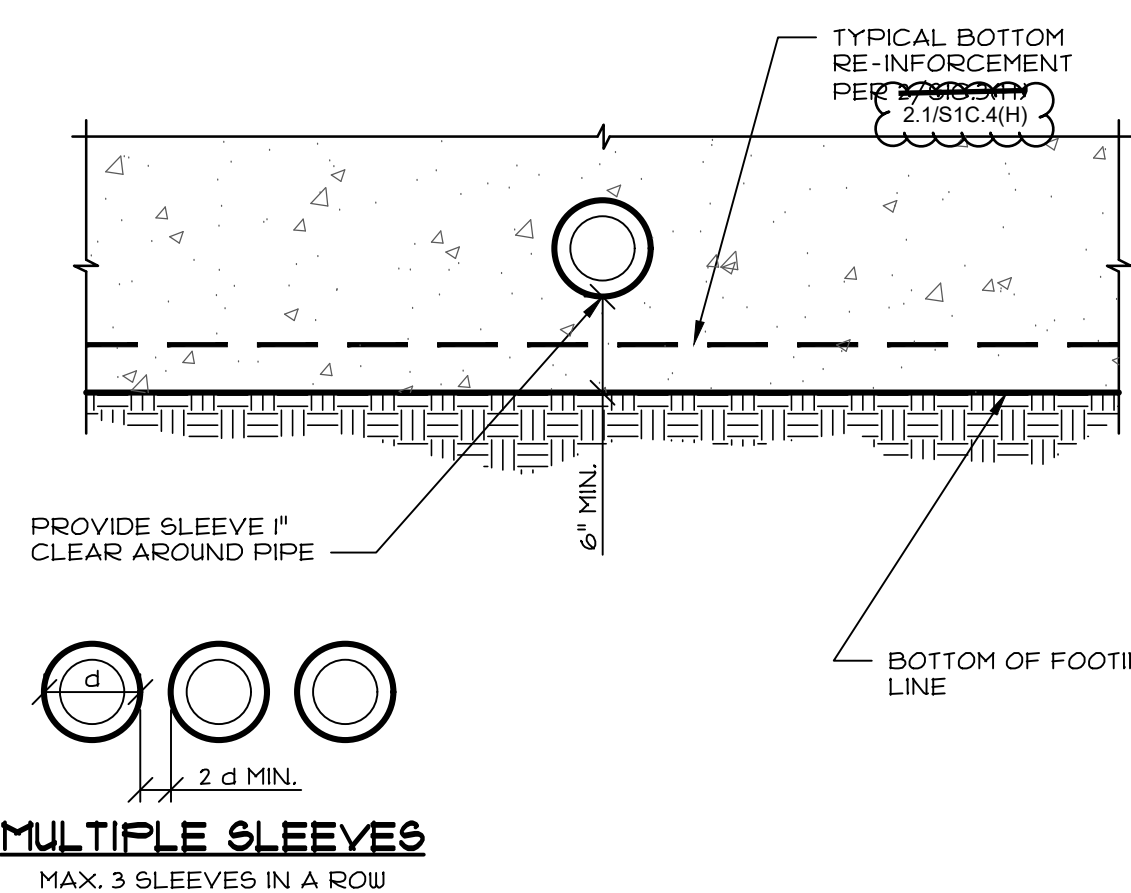
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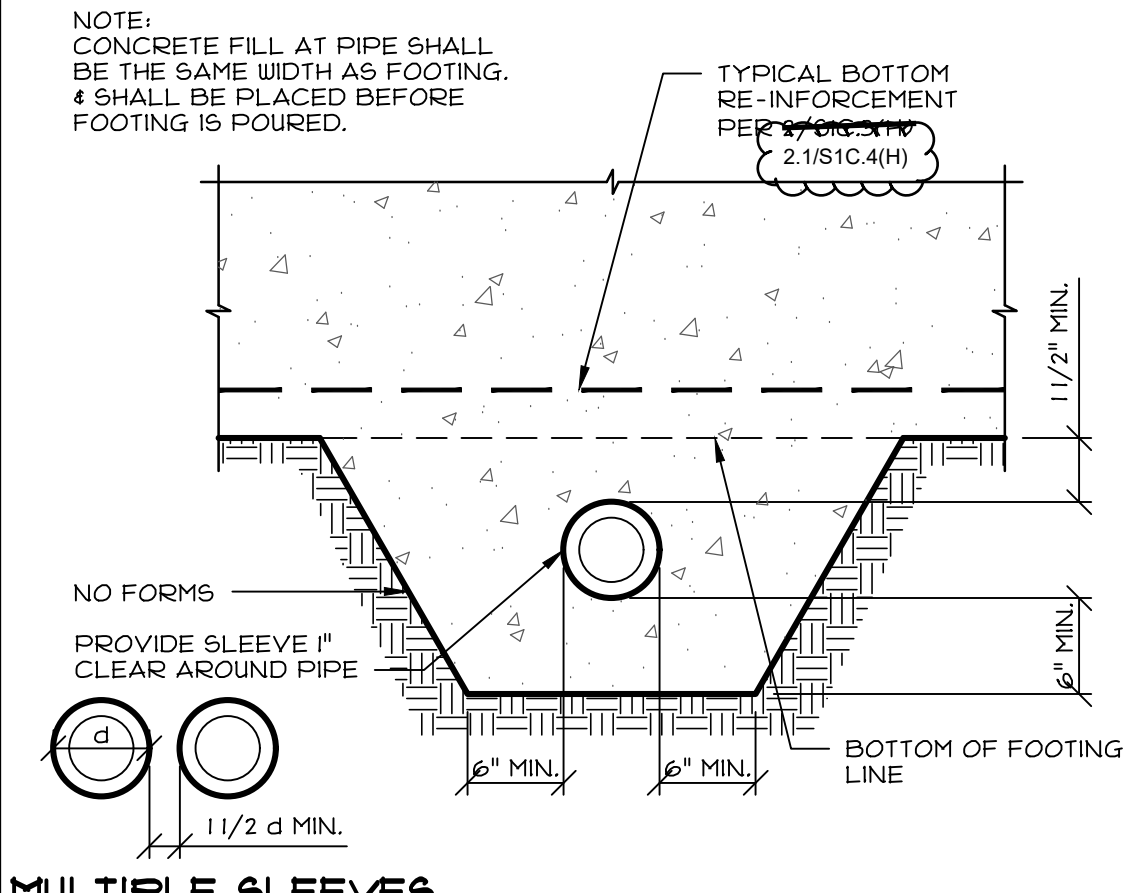
S1C.3(H)

24'x40' TO 120'x40' P.C.

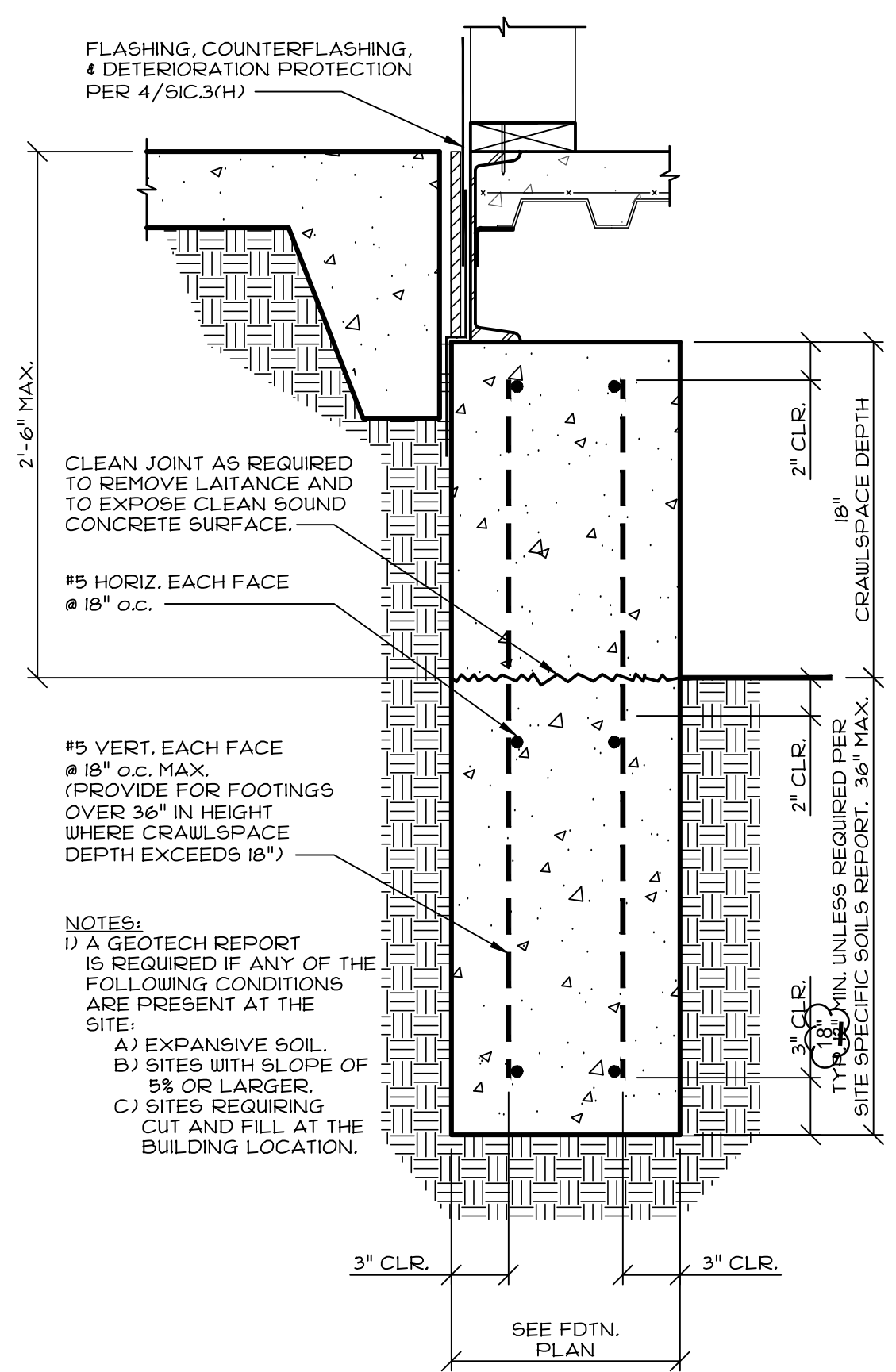




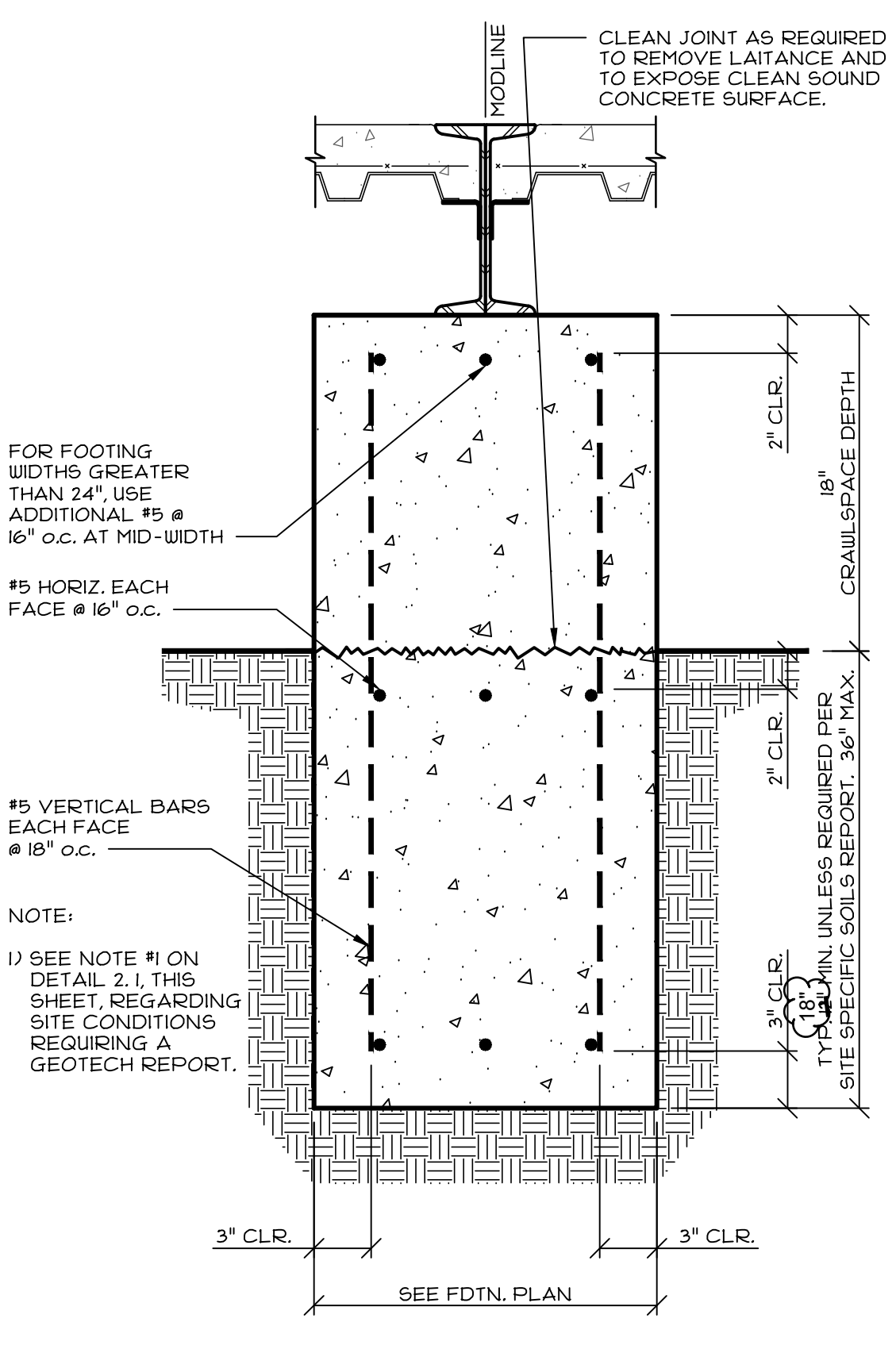
4 PIPE THROUGH FOOTING
SCALE: 1"=1'-0"



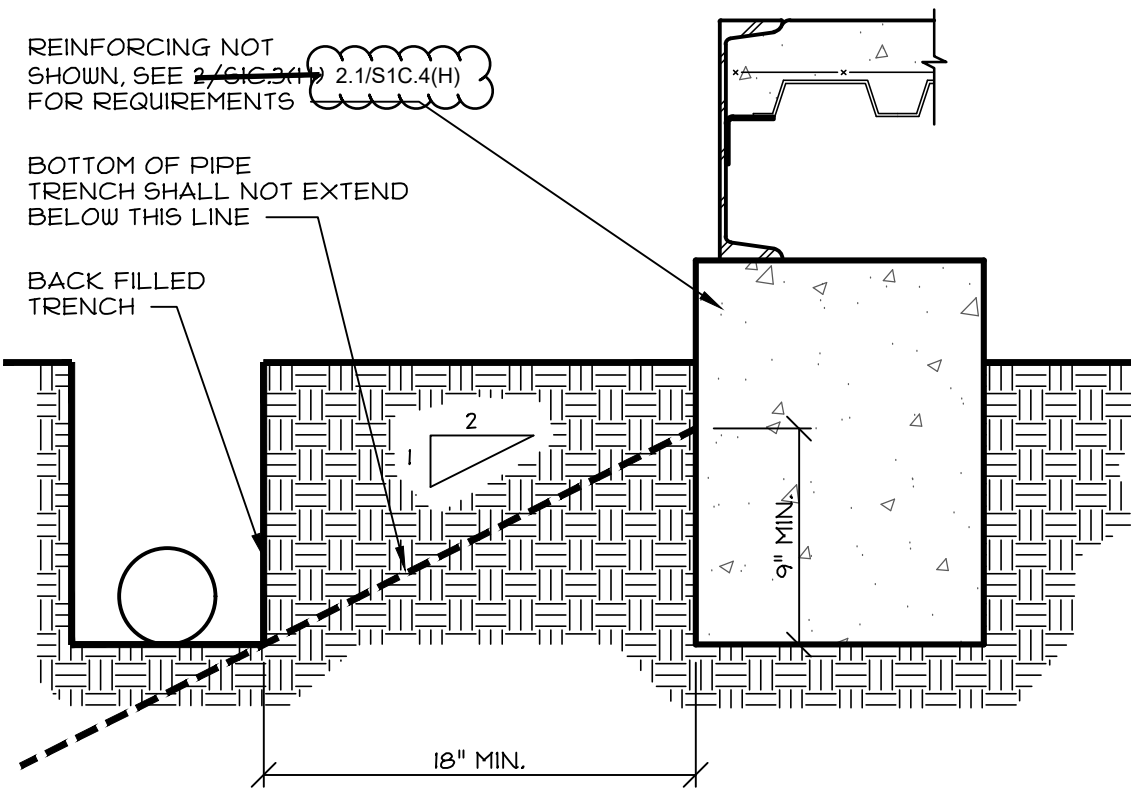
6 PIPE BELOW BOTTOM OF FOOTING
SCALE: 1"=1'-0"



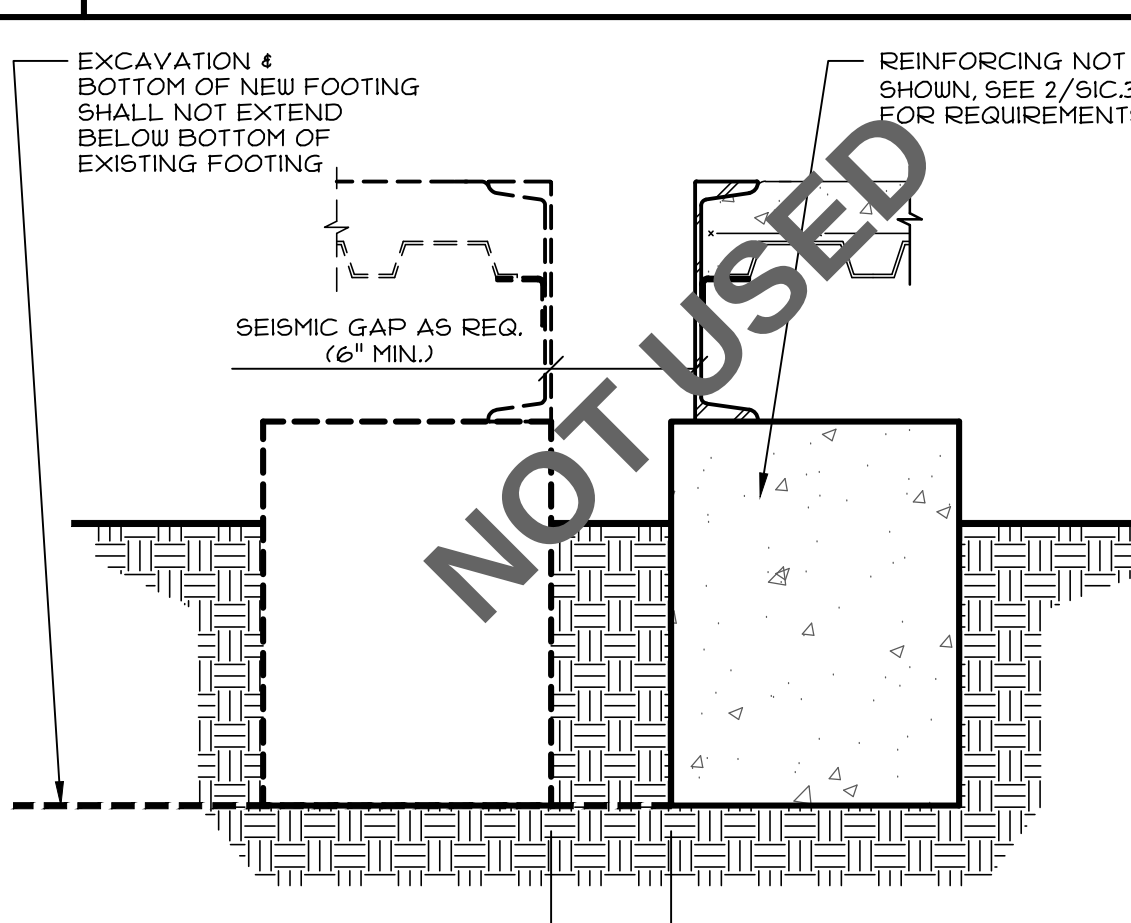
2.1 PERIMETER HORIZ COLD JOINT
SCALE: 1 1/2"=1'-0"



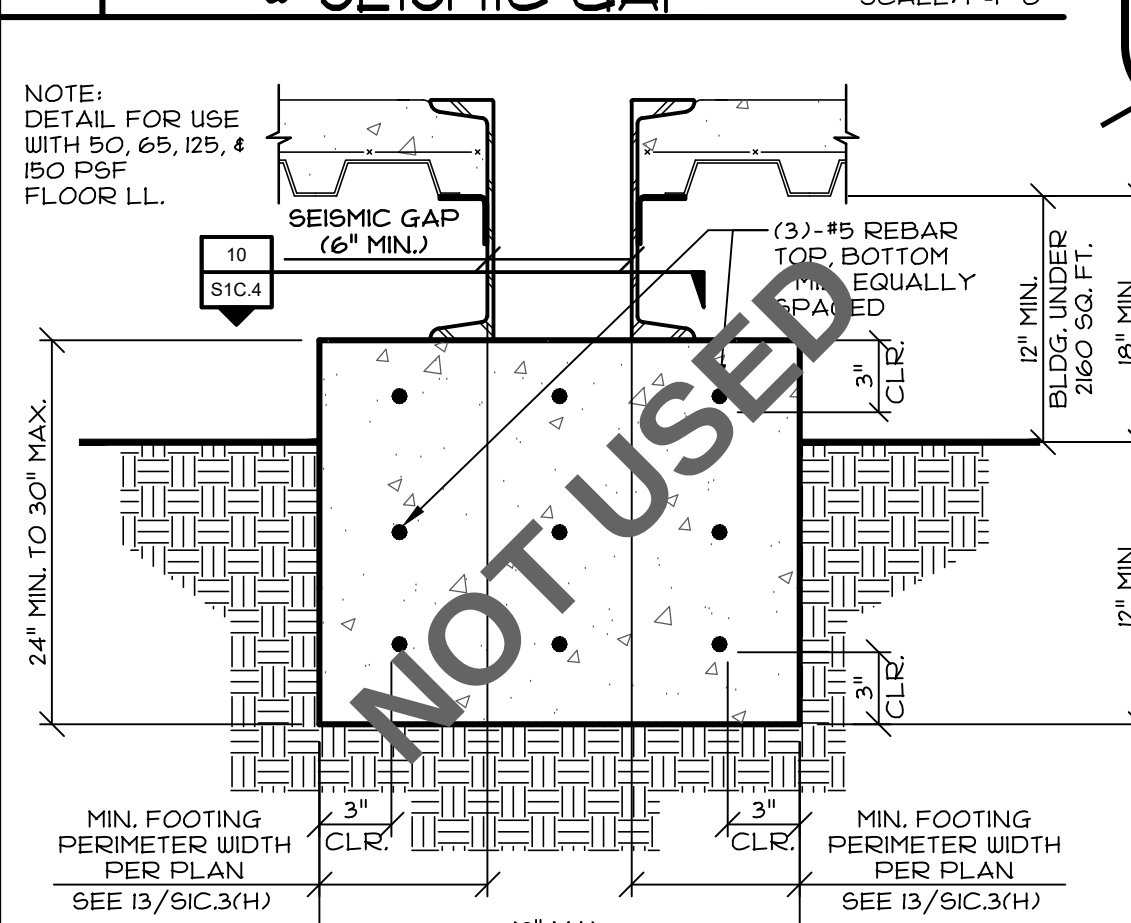
3.1 INTERIOR HORIZONTAL COLD JOINT
SCALE: 1 1/2"=1'-0"



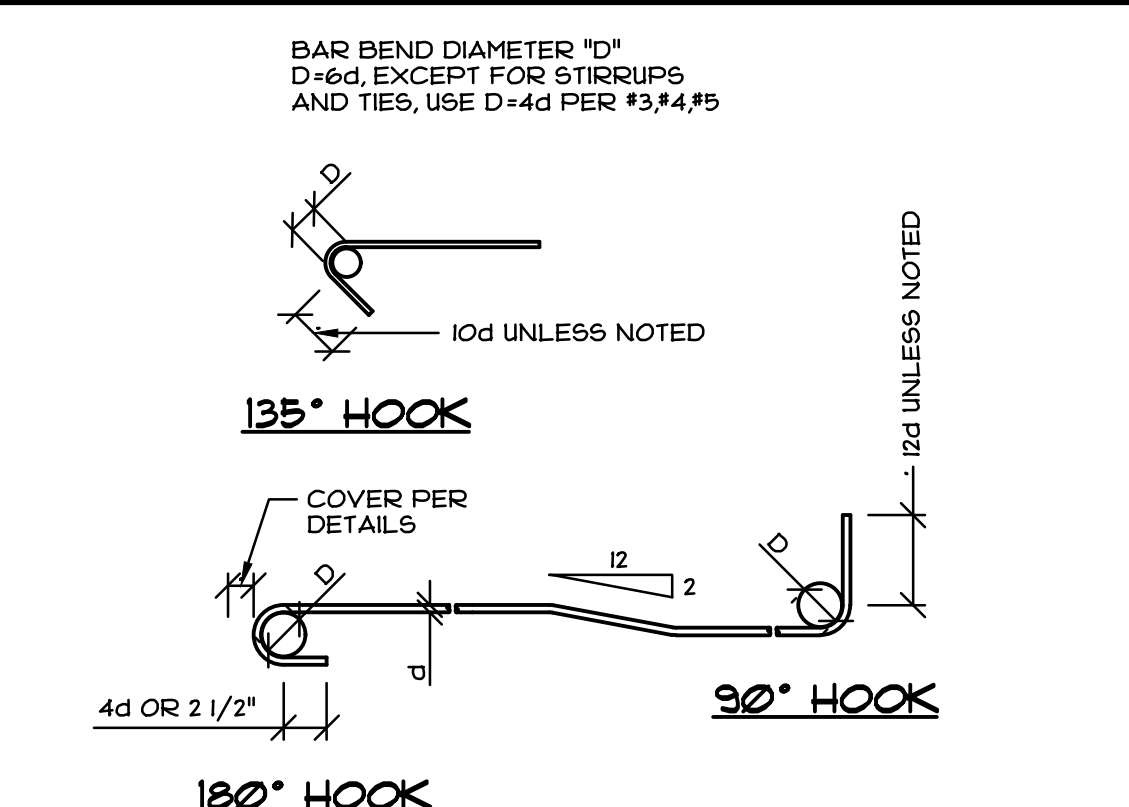
13 TRENCH PROXIMITY TO FOOTINGS
SCALE: 1 1/2"=1'-0"



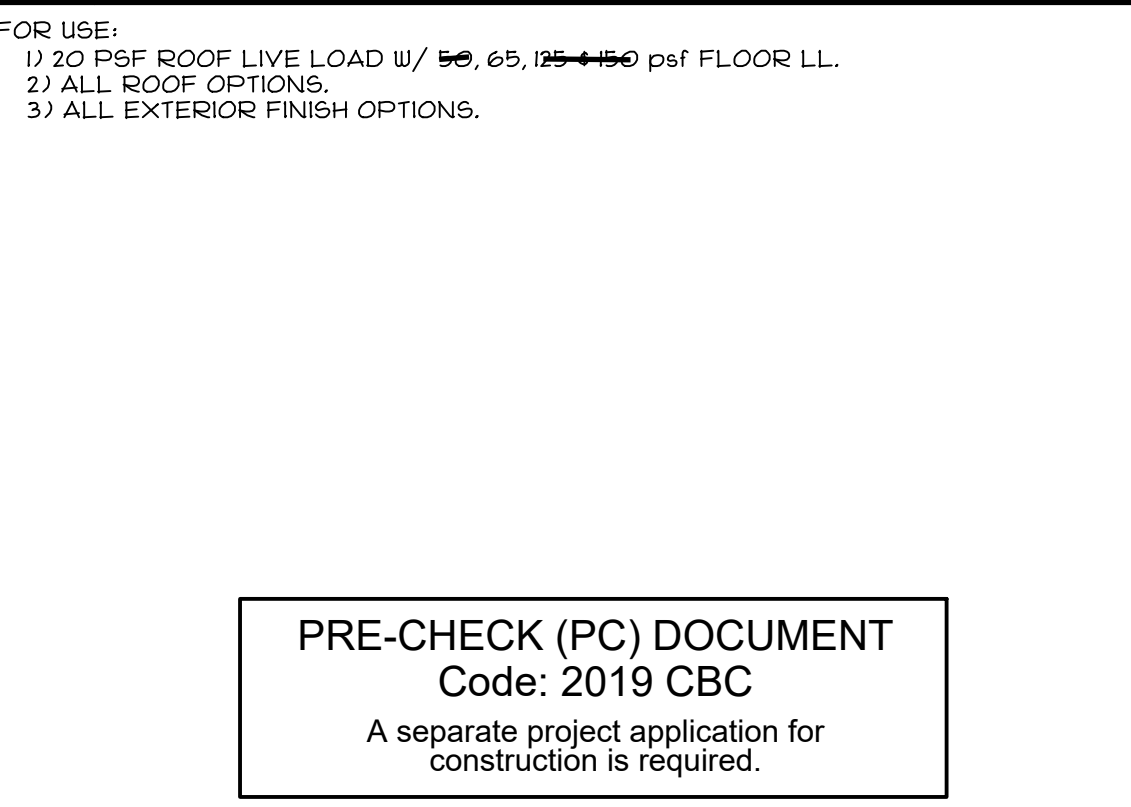
14 PROXIMITY OF NEW TO EXIST. FOOT.
SCALE: 1 1/2"=1'-0"



15 COMBINED FOOTING @ SEISMIC GAP
SCALE: 1 1/2"=1'-0"

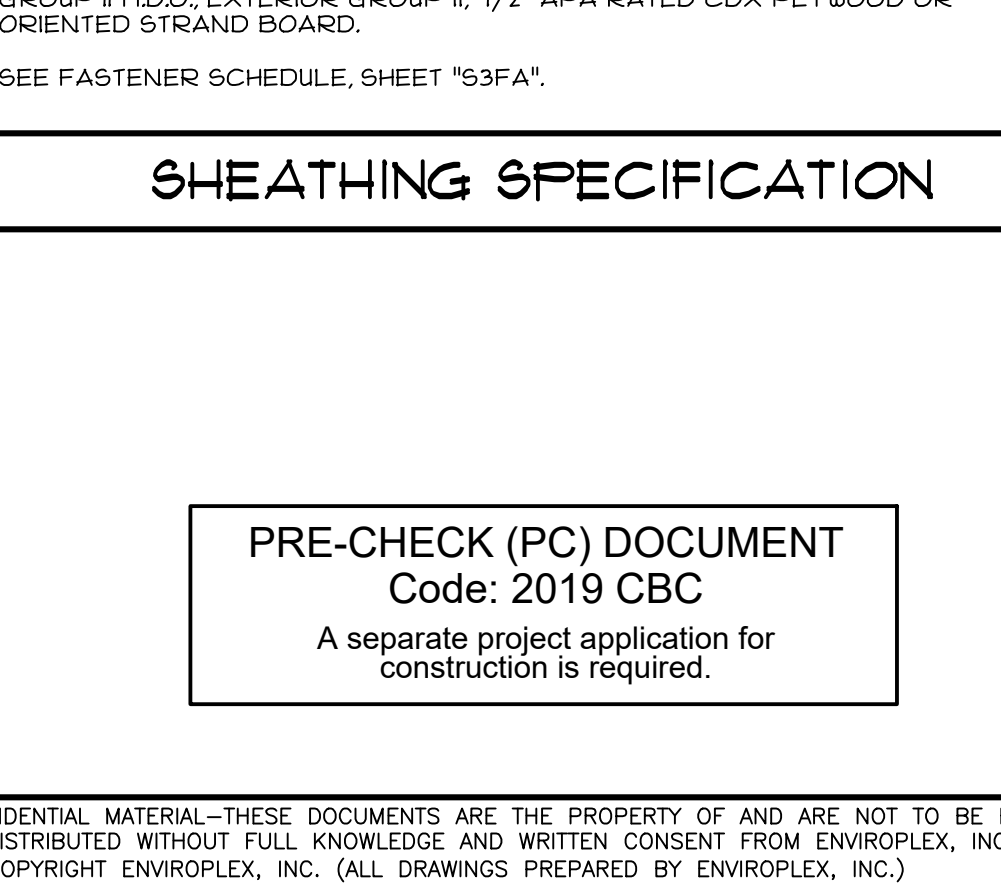
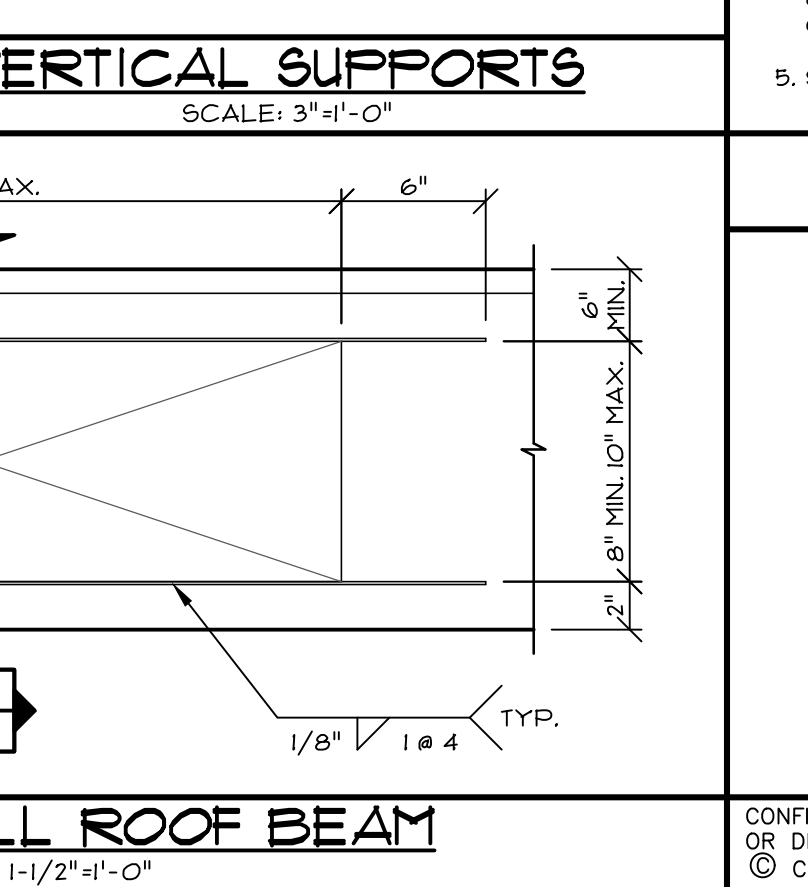
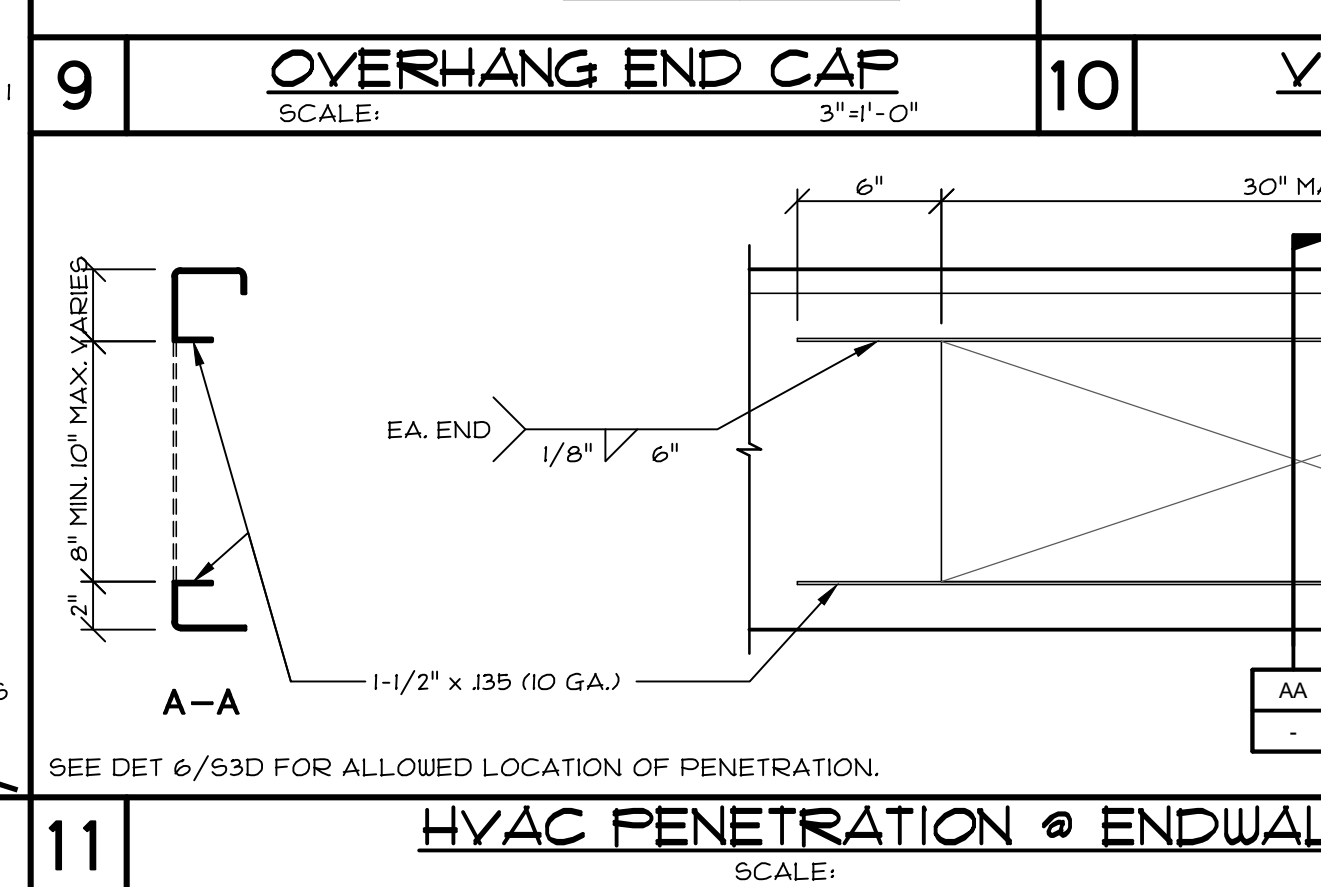
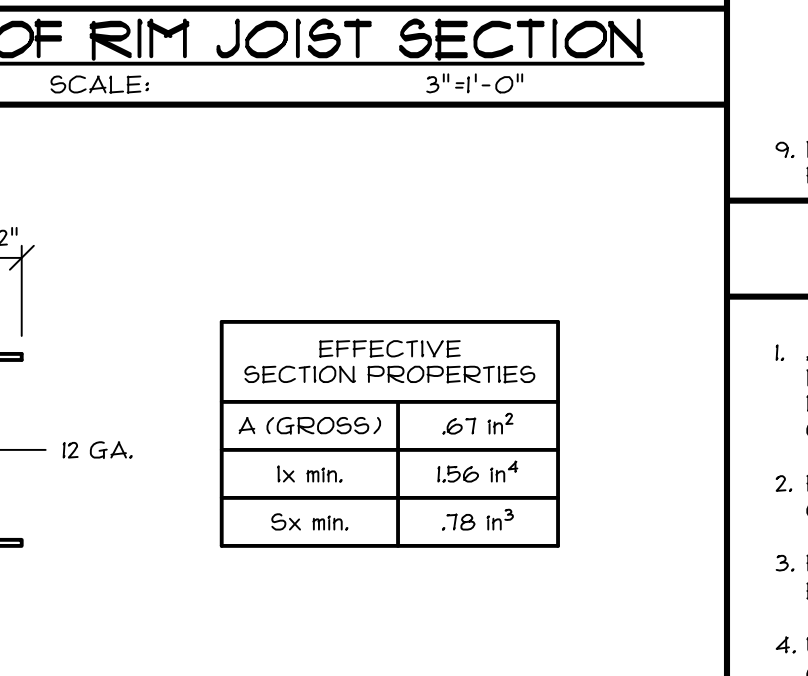
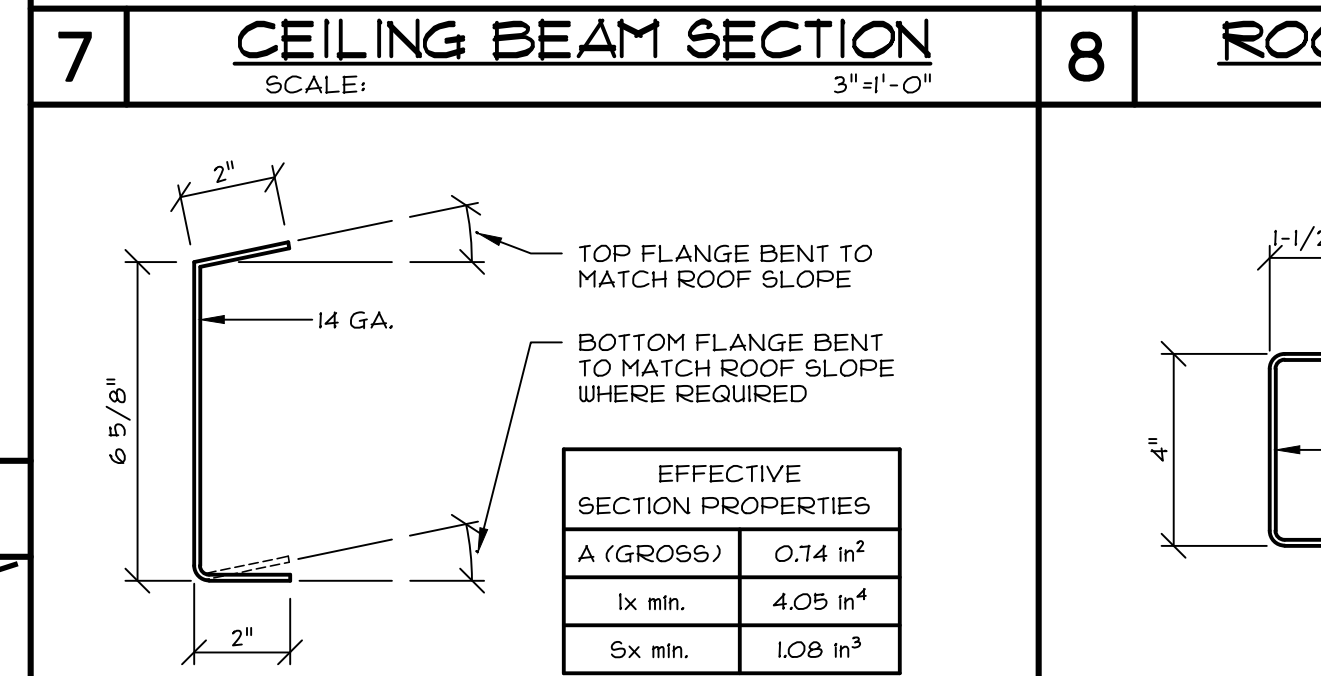
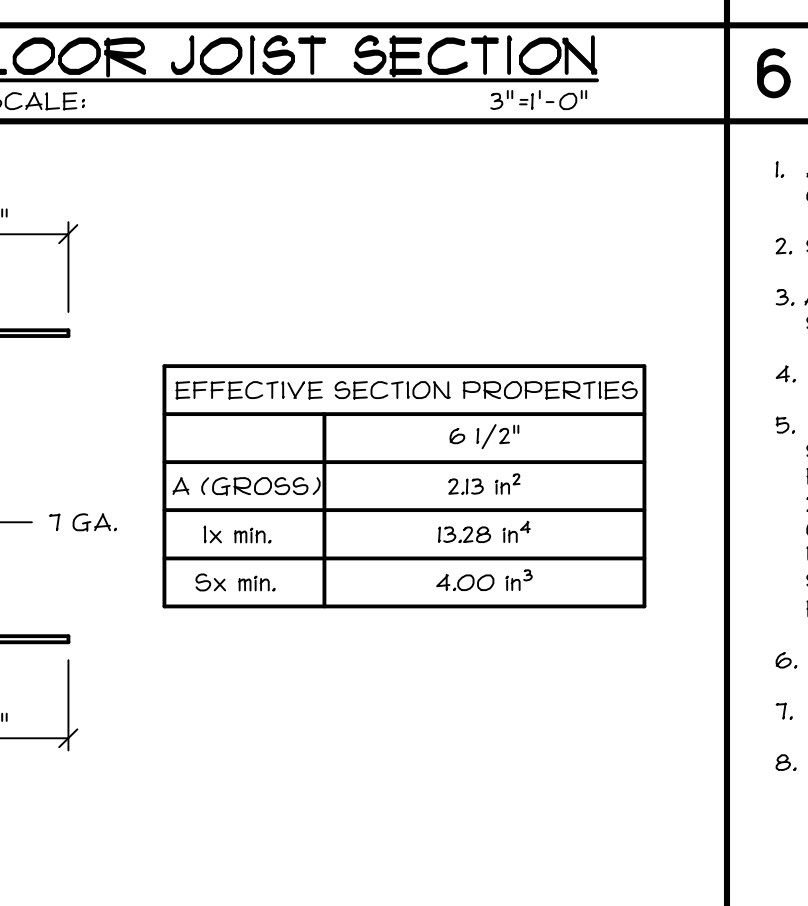
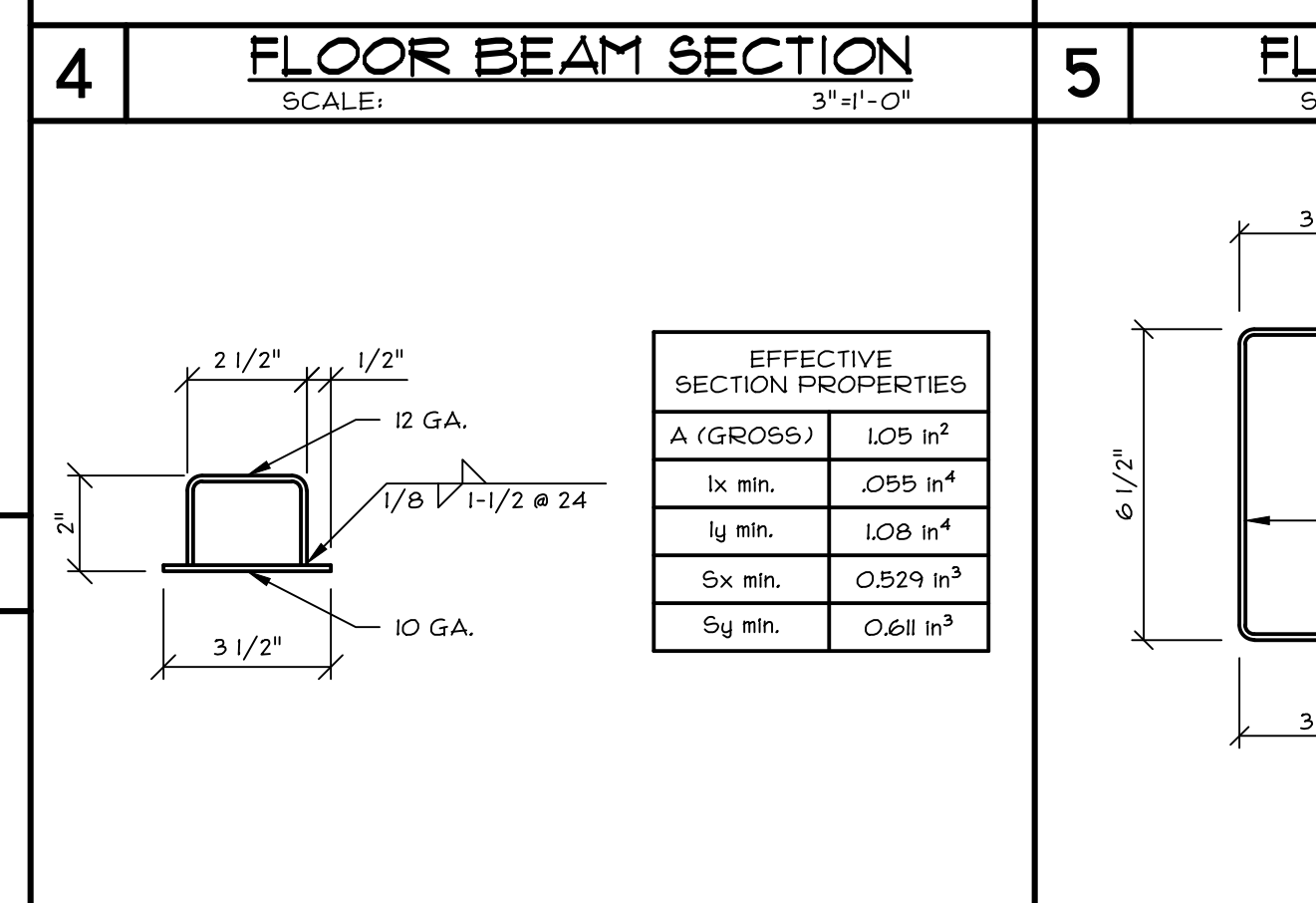
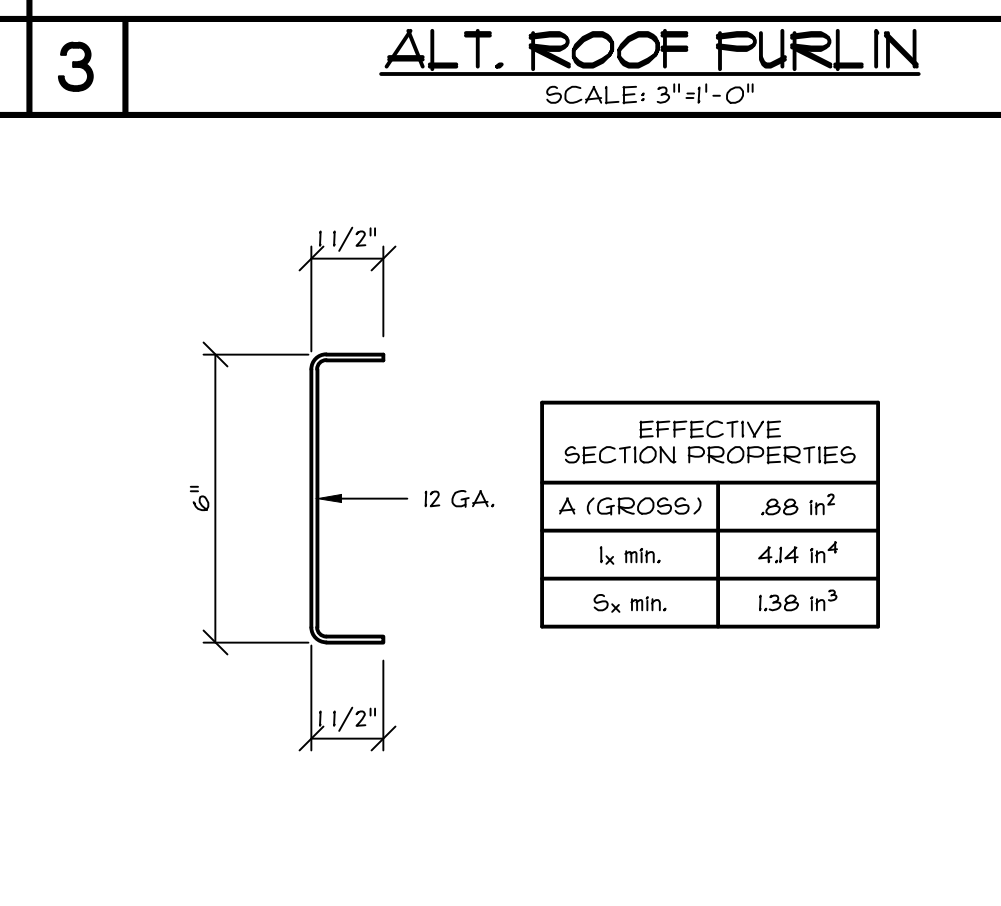
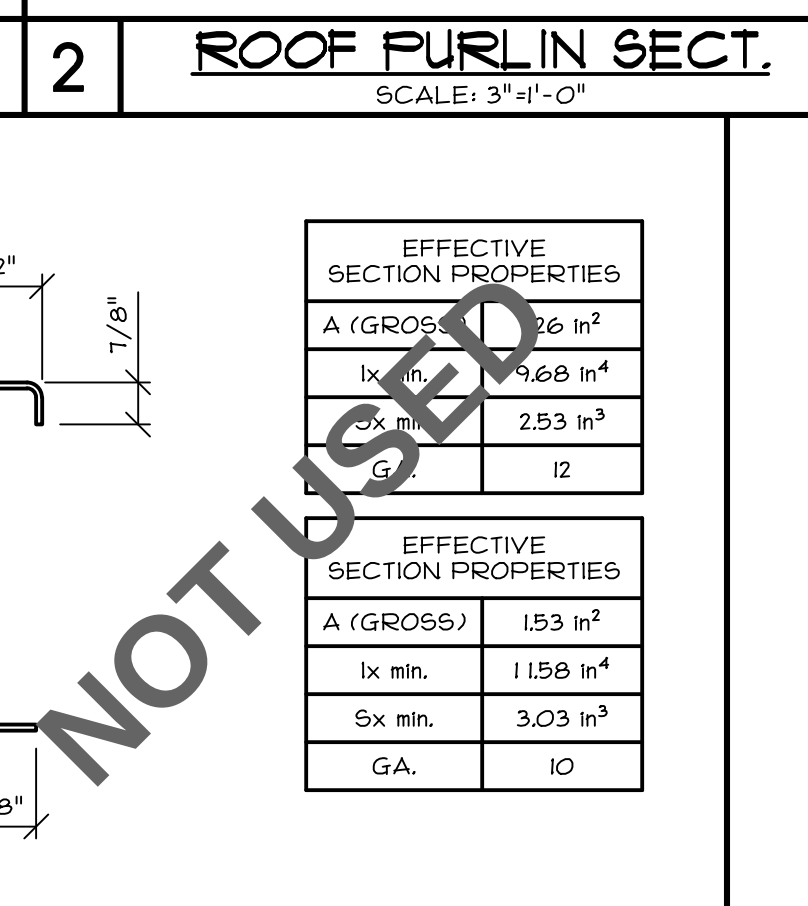
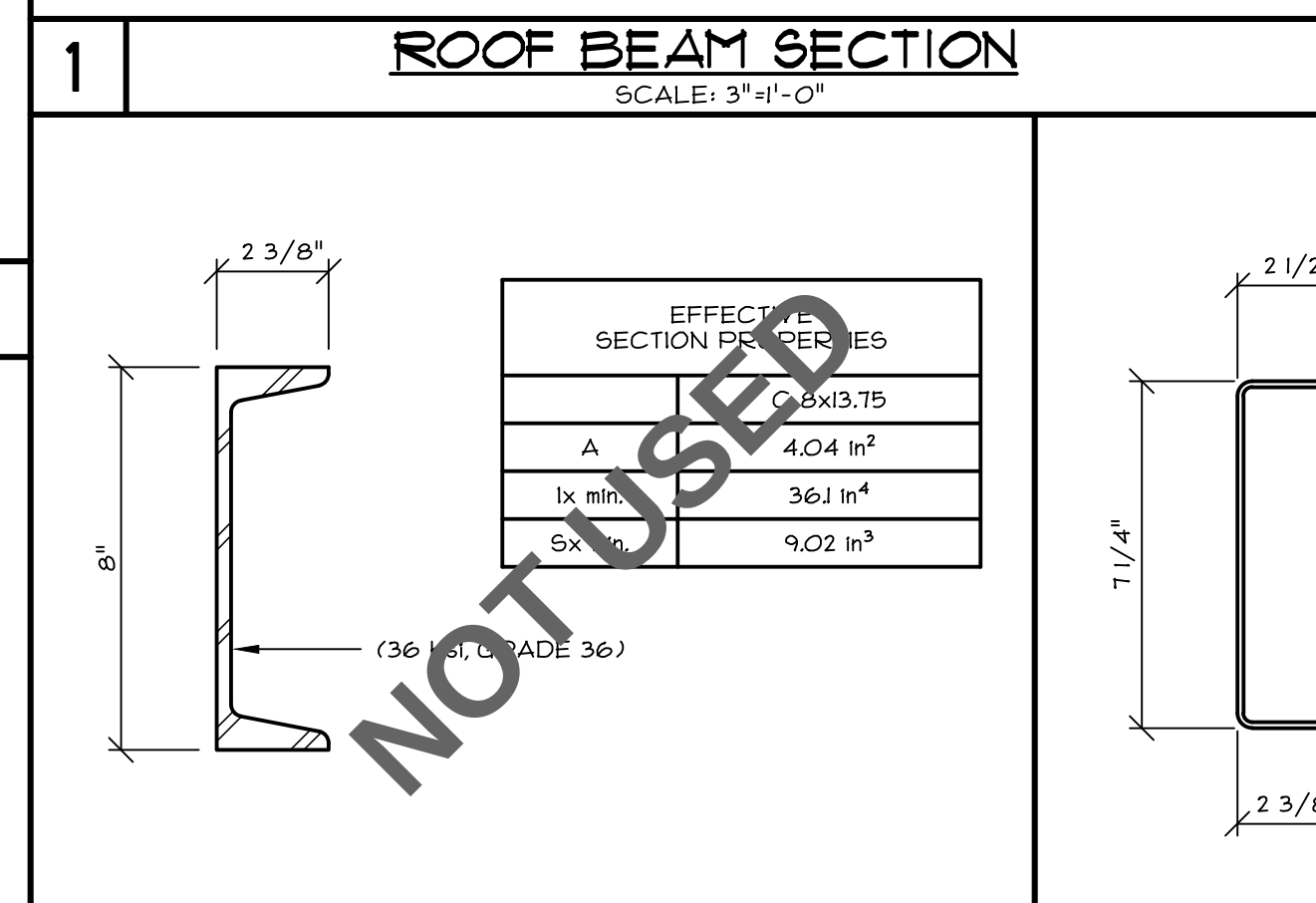
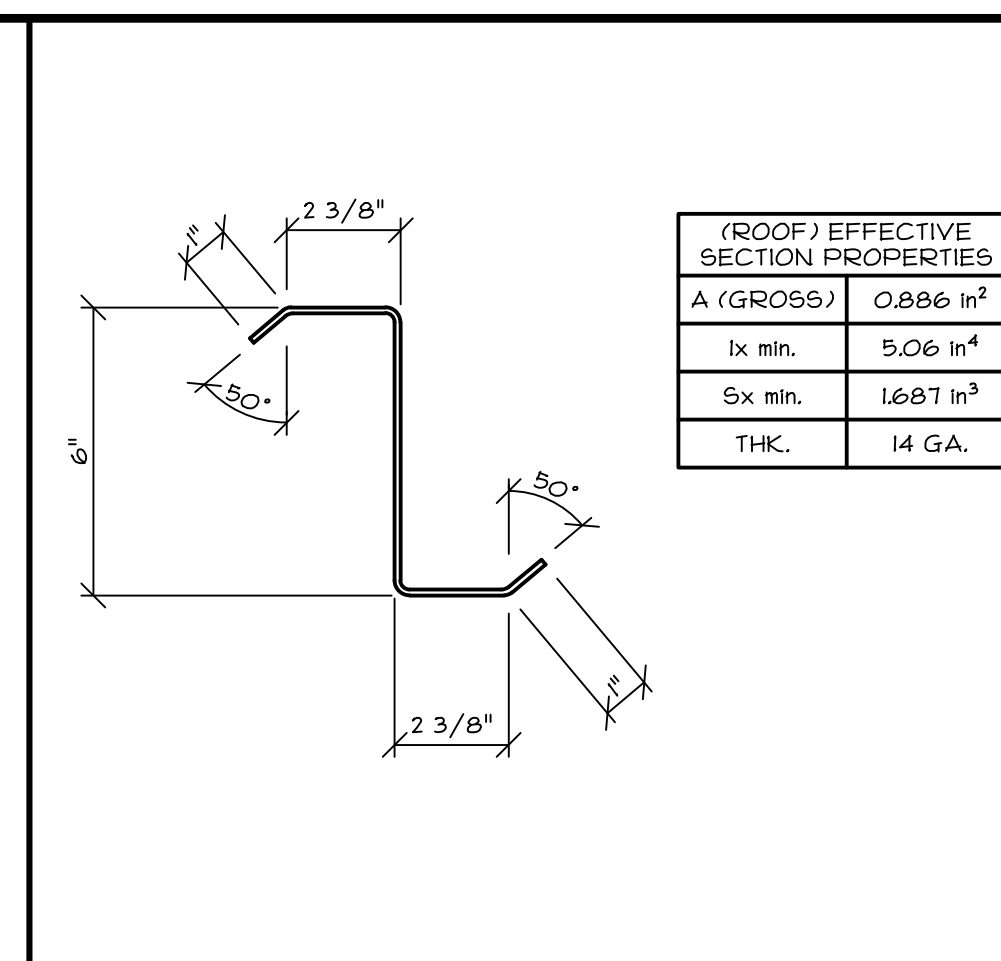
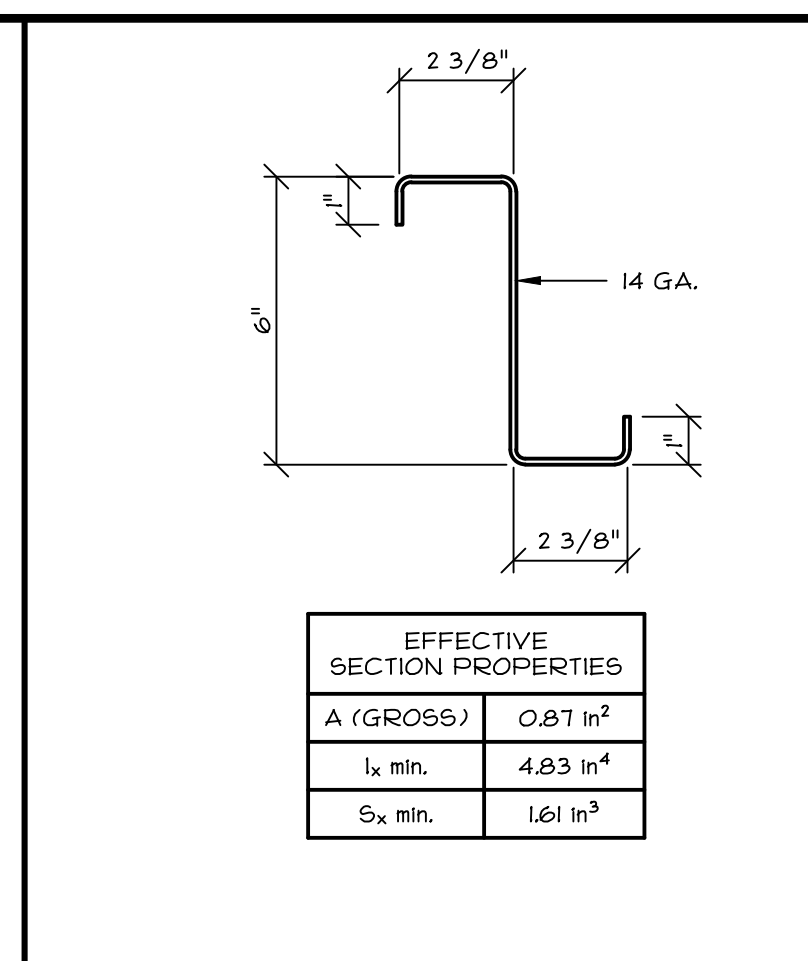
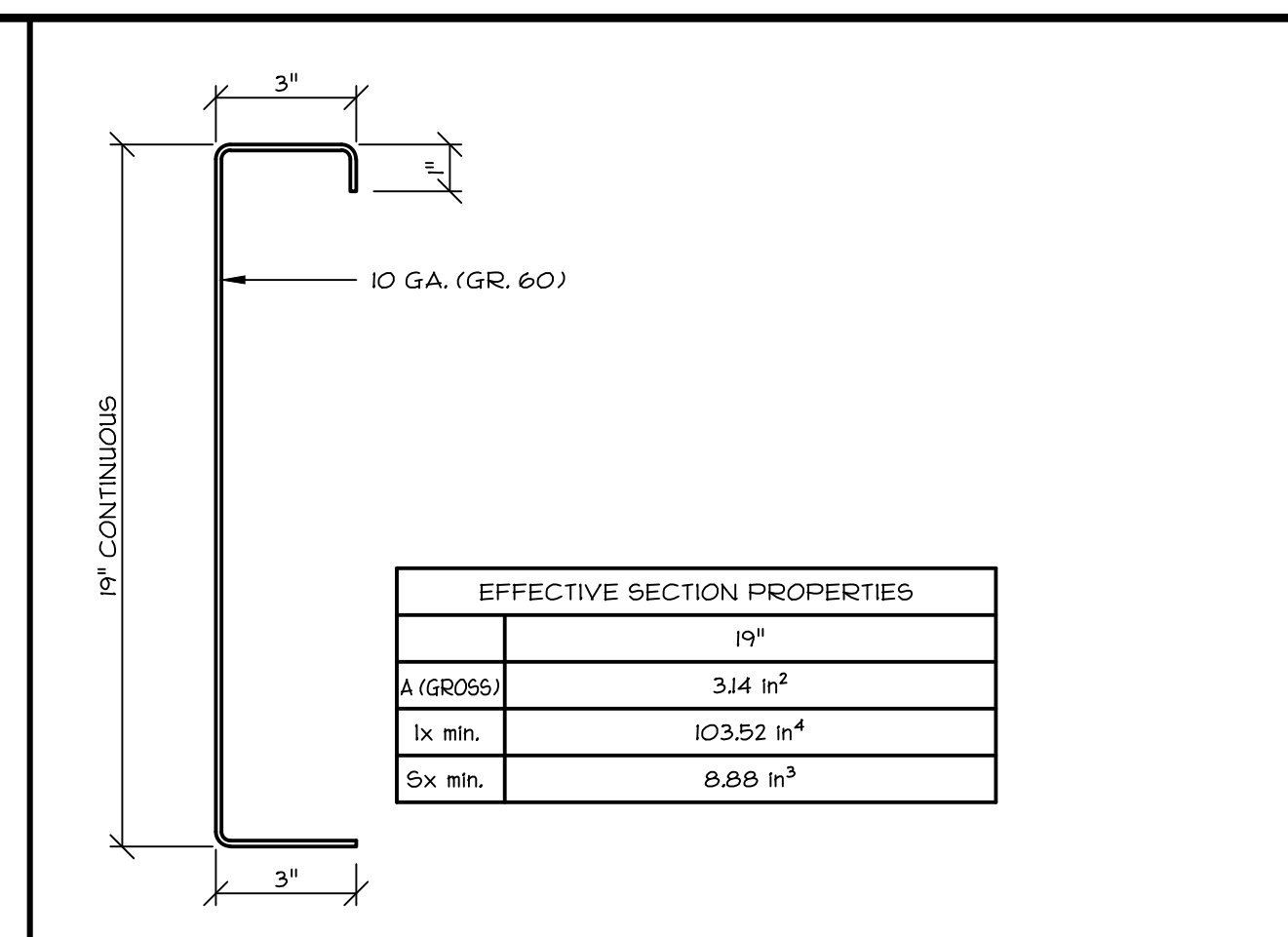
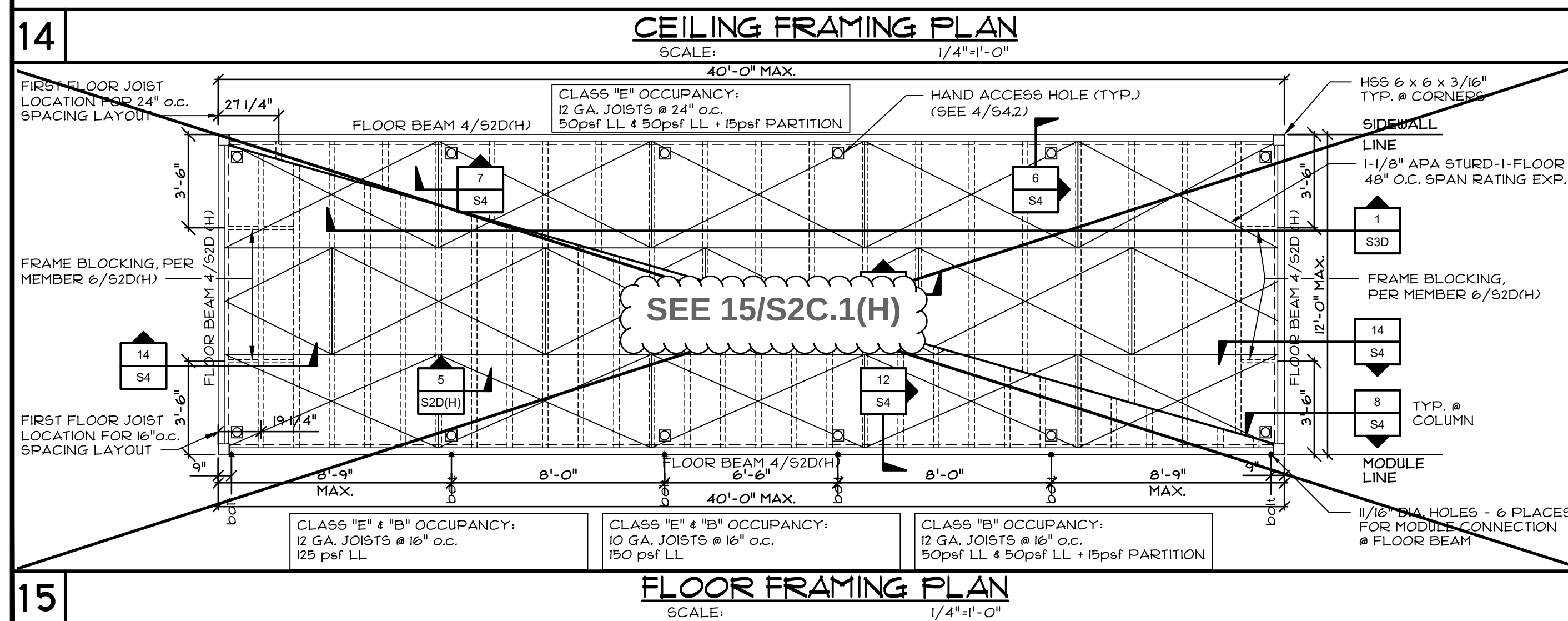
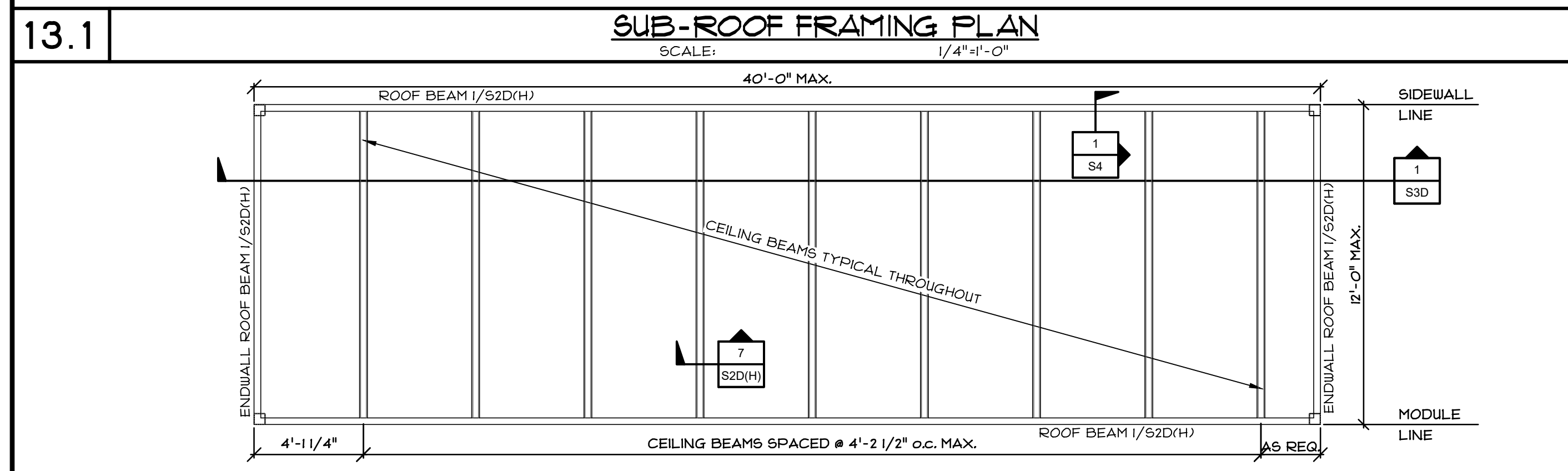
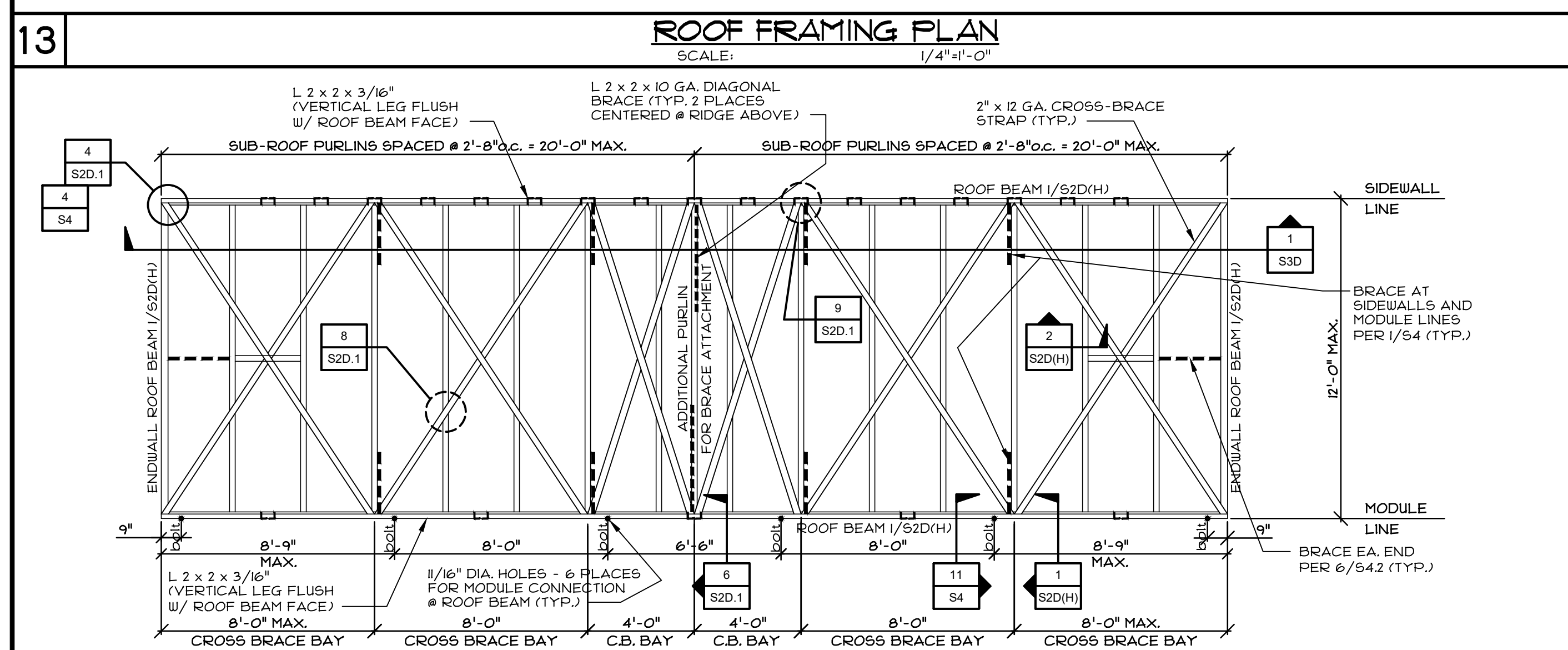
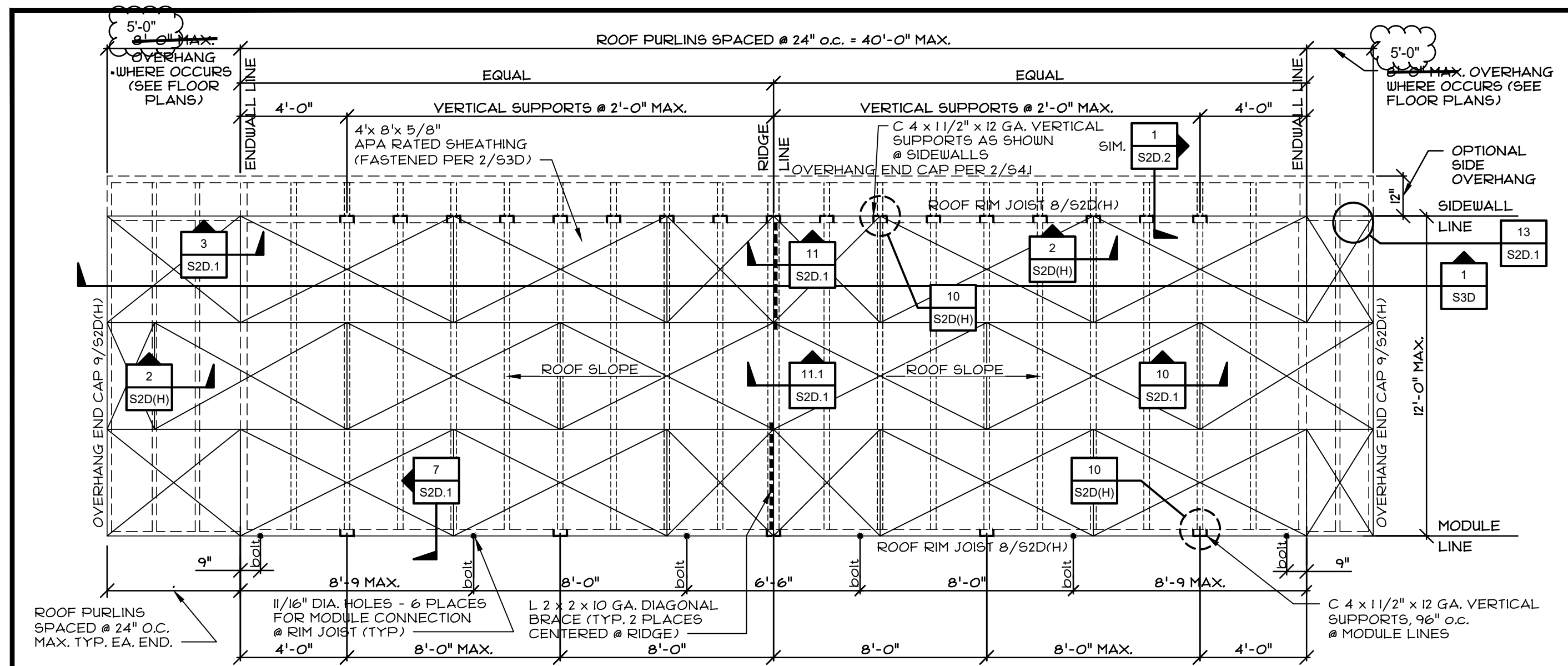


11 TYP. REINFORCING BAR BENDS
SCALE: NONE



15 COMBINED FOOTING @ SEISMIC GAP
SCALE: 1 1/2"=1'-0"

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04/28/2022
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STATE OF CALIFORNIA
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VARIABLE SLOPE
ROOF, CEILING, FLOOR
FRAMING PLANS,
STRUCTURAL STEEL
PROPERTIES, NOTES

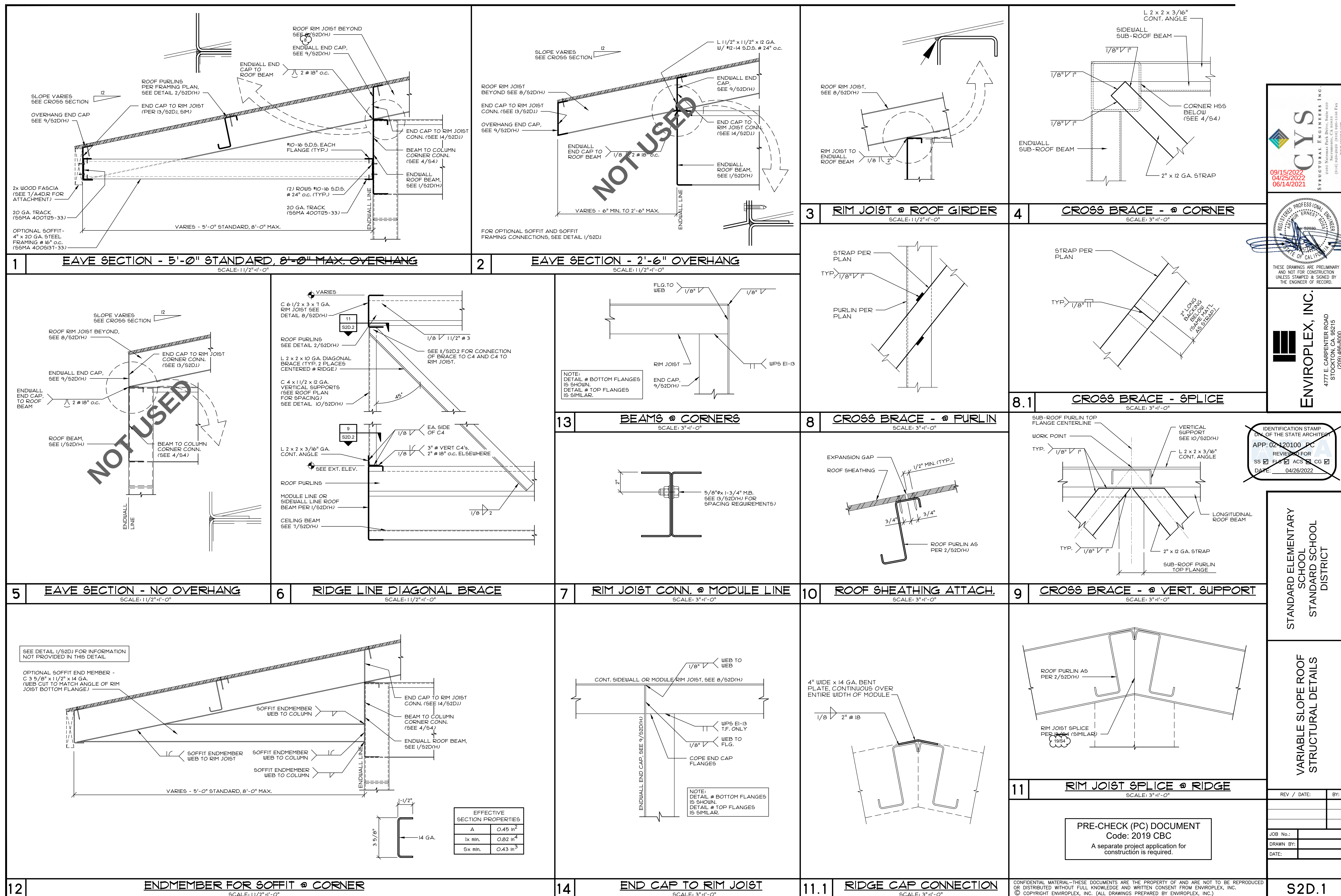
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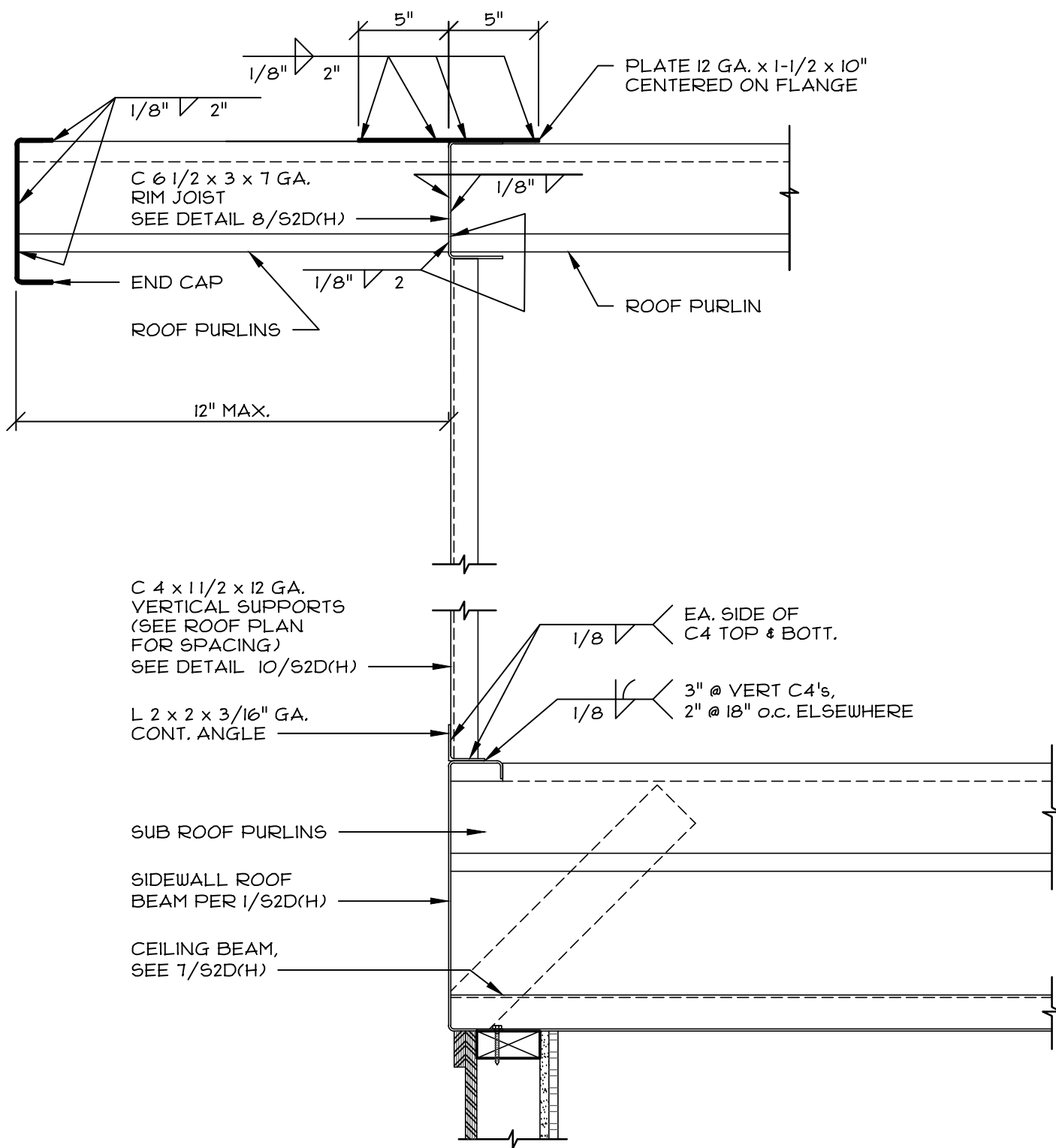
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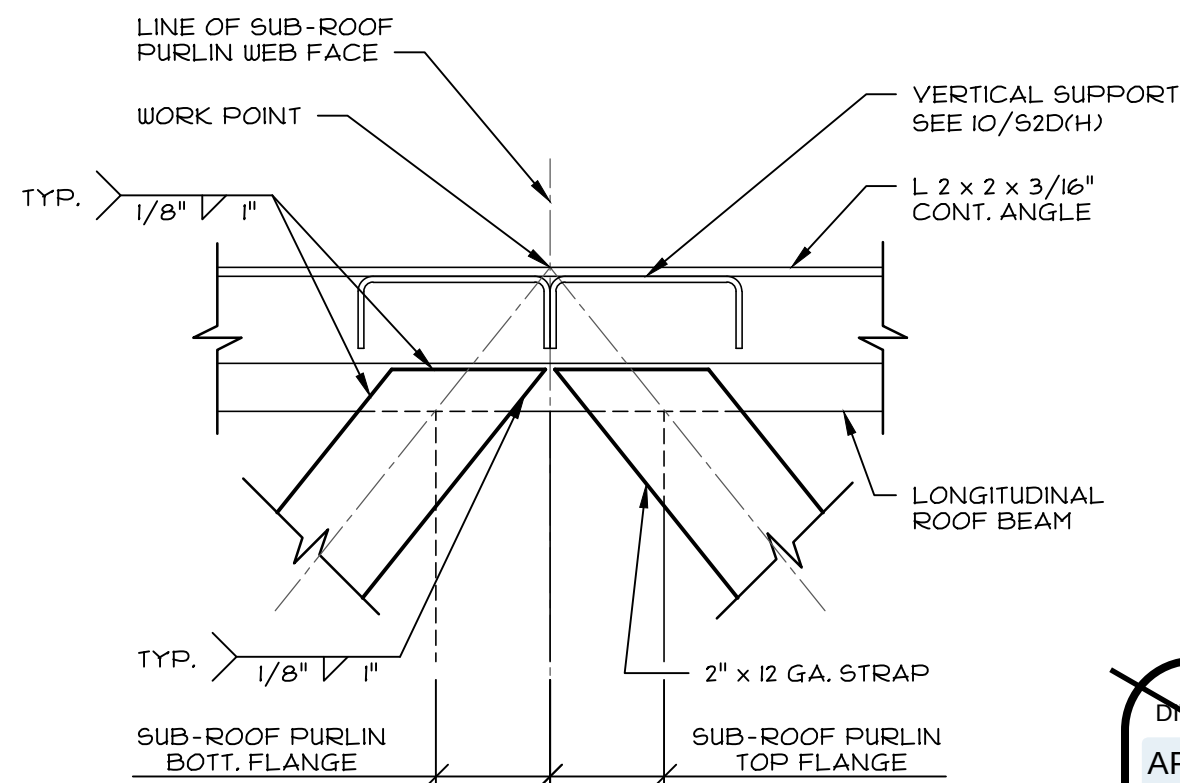
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S2D(H)

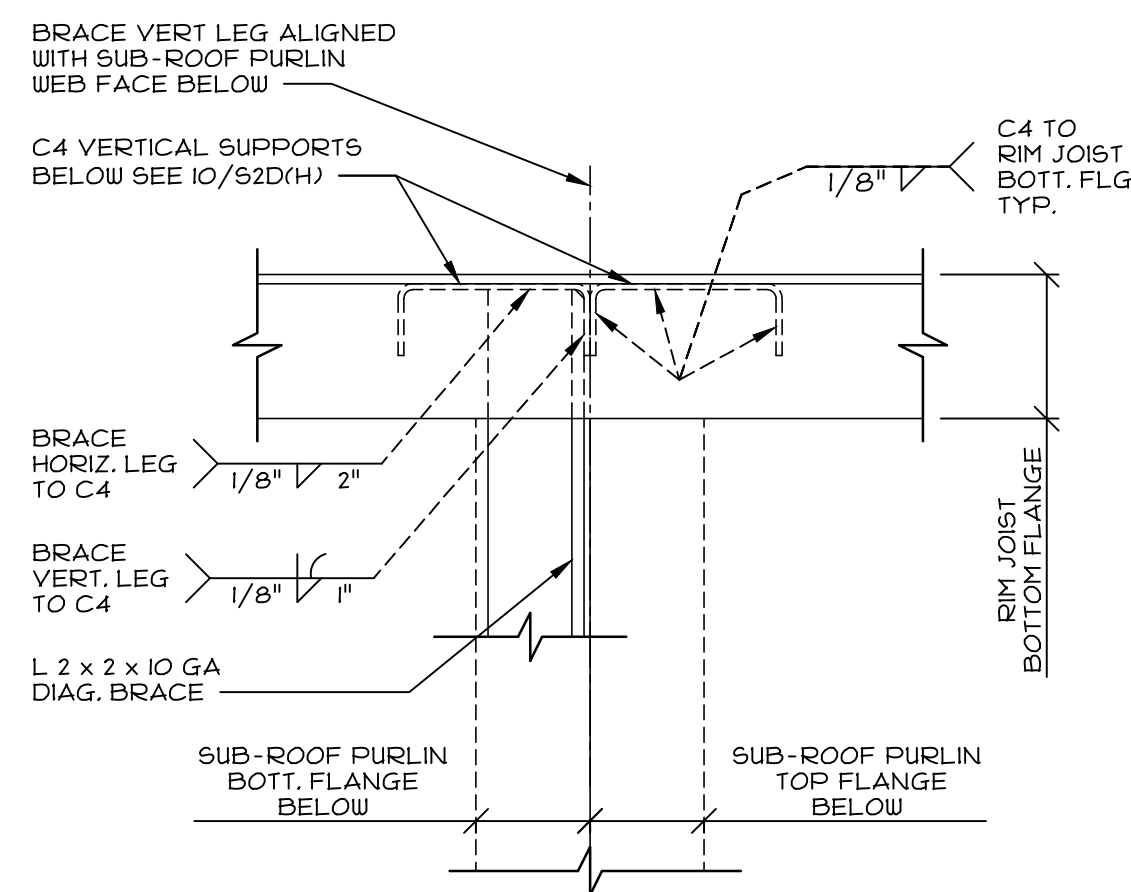




1 SIDEWALL OVERHANG DETAIL
SCALE: 1 1/2" = 1'-0"



9 CROSS BRACE - @ VERT. SUPPORTS
SCALE: 3" = 1'-0"



11 DIAG. BRACE TO RIM JOIST @ RIDGE
SCALE: 3" = 1'-0"

PRE-CHECK (PC) DOCUMENT
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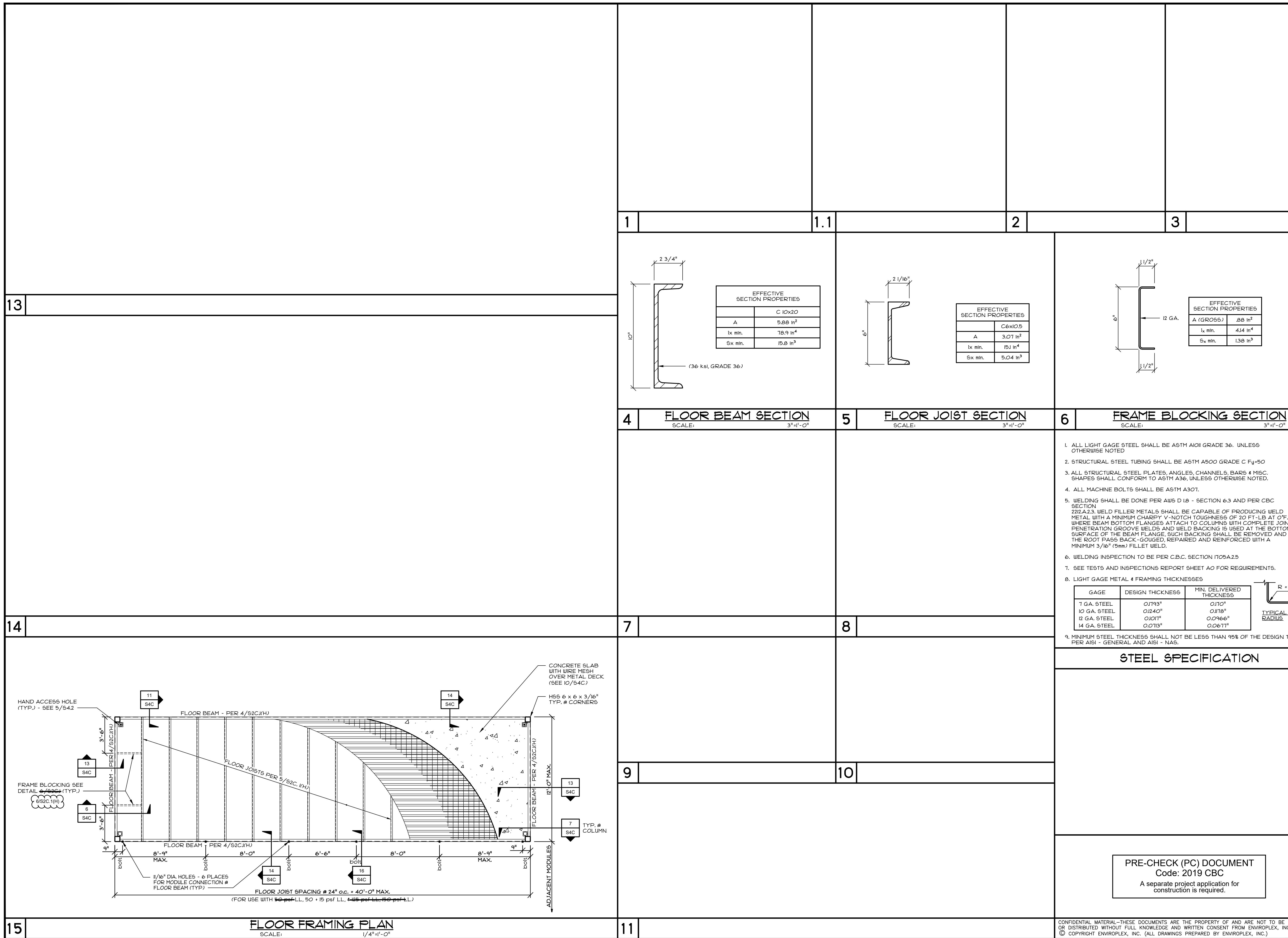
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VARIABLE SLOPE ROOF
STRUCTURAL DETAILS

REV	DATE	BY
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DATE:		



FOR BUILDINGS ON WOOD FOUNDATIONS
NOTE: DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE
SCREWS - #10 S.M.S. (AISI 3400-15, SECTION F)
NOTE: SCREWS SHALL EXTEND THROUGH STEEL WITH A MIN. OF (3) EXPOSED THREADS.

	50 PSF	65 PSF
	6" o.c. ALL PANEL EDGES 12" o.c. FIELD	

SUBFLOORING
1-1/8" APA RATED
T&G STURD-I-FLOOR TO
STEEL BEAMS & JOISTS

BI-PITCHED/SHEED ROOF
5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS

MODULE LENGTH
OH 4'-0" MIN. 4'-0" MIN. OH

6" o.c. ALL PANEL EDGES,
12" o.c. FIELD (TYP.)

VARIABLE SLOPE ROOF
5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS

OH 4'-0" MIN. 4'-0" MIN. OH

6" o.c. ALL PANEL EDGES,
12" o.c. FIELD (TYP.)

4" o.c. EDGES, 4" o.c.
BOUNDARIES, 12" o.c.
FIELD (BLOCK PANEL
EDGES)

FOR BUILDINGS ON CONCRETE FOUNDATIONS
NOTE: DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE
SCREWS - #10 S.M.S. (AISI 3400-15, SECTION F)
NOTE: SCREWS SHALL EXTEND THROUGH STEEL WITH A MIN. OF (3) EXPOSED THREADS.

50 PSF	65 PSF	85 PSF	105 PSF
6" o.c. ALL PANEL EDGES 12" o.c. FIELD			

SUBFLOORING
1-1/8" APA RATED
T&G STURD-I-FLOOR TO
STEEL BEAMS & JOISTS

3/4" USG "LEVEL ROCK" FLOOR
TOPPING OVER 3/8" SOUND
REDUCTION BOARD OVER
1-1/8" T&G STURD-I-FLOOR PLY
SHEATHING

150 PSF

MODULE LENGTH
OH 4'-0" MIN. 4'-0" MIN. OH

6" o.c. ALL PANEL EDGES,
12" o.c. FIELD (TYP.)

4" o.c. EDGES, 12" o.c. FIELD
(BLOCK PANEL EDGES)

DIAGRAM "A"

BI-PITCHED/SHEED ROOF
5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS

OH 4'-0" MIN. 4'-0" MIN. OH

6" o.c. ALL PANEL EDGES,
12" o.c. FIELD (TYP.)

VARIABLE SLOPE ROOF
5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS

OH 4'-0" MIN. 4'-0" MIN. OH

6" o.c. ALL PANEL EDGES,
12" o.c. FIELD (TYP.)

4" o.c. EDGES, 4" o.c.
BOUNDARIES, 12" o.c.
FIELD (BLOCK PANEL
EDGES)

FOR BUILDINGS ON WOOD FOUNDATIONS
NOTE: DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE
E.T. & F. - AKN 144 x 1 3/4" PIN (UES ER 335)

50 PSF	65 PSF
6" o.c. ALL PANEL EDGES, 6" o.c. BOUNDARIES, 12" o.c. FIELD (TYP.)	

SUBFLOORING
1-1/8" APA RATED
T&G STURD-I-FLOOR TO
STEEL BEAMS & JOISTS

5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS

OH 4'-0" MIN. 4'-0" MIN. OH

6" o.c. ALL PANEL EDGES,
6" o.c. BOUNDARIES, 12" o.c.
FIELD (TYP.)

ROOF

FOR BUILDINGS ON CONCRETE FOUNDATIONS
NOTE: DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE
E.T. & F. - AKN 144 x 1 3/4" PIN (UES ER 335)

50 PSF	65 PSF	85 PSF	105 PSF
6" o.c. ALL PANEL EDGES, 6" o.c. BOUNDARIES, 12" o.c. FIELD (TYP.)			

SUBFLOORING
1-1/8" APA RATED
T&G STURD-I-FLOOR TO
STEEL BEAMS & JOISTS

3/4" USG "LEVEL ROCK" FLOOR
TOPPING OVER 3/8" SOUND
REDUCTION BOARD OVER
1-1/8" T&G STURD-I-FLOOR PLY
SHEATHING

5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS

OH 4'-0" MIN. 4'-0" MIN. OH

6" o.c. ALL PANEL EDGES,
6" o.c. BOUNDARIES,
12" o.c. FIELD (TYP.)

ROOF

WALL TO FRAME FASTENING:

- WALL PANEL TOP PLATE TO PERIMETER ROOF BEAM. 1/4" x 2 1/2" LAG SCREWS FROM ROOF BEAM BOTT. FLANGE INTO TOP PLATE # 15" o.c. MAX.
- WALL PANEL BOTTOM PLATE TO PERIMETER FLOOR BEAM. 1/4" x 20 TEK 5/4 SCREWS # 24" o.c. FROM BOTTOM PLATE INTO FLOOR BEAM TOP FLANGE OR EACH FLOOR JOIST TOP FLANGE.
- WALL PANEL SIDE STUDS TO HSS CORNER COLUMNS. #12-24 x 2 1/2" S.D.S. # 16" o.c. FROM SIDE STUD INTO STEEL CORNER COLUMN.
- TOP AND BOTTOM PLATE TO STUDS AND KING STUDS. (3) J35 x 3 1/4" LONG MACHINE NAIL.
- DOUBLE STUDS, TRIMMERS, SILLS. J35 x 3 1/4" LONG MACHINE NAILS # 8" o.c. AND CRIPPLES STITCH NAILED.
- CRIPPLES, TRIMMERS END NAILED. (3) J35 x 3 1/4" LONG MACHINE NAIL EA. END TO PLATES AND SILLS.
- CRIPPLES, TRIMMERS. (3) J35 x 3 1/4" LONG MACHINE NAIL NAILED TO HEADERS.
- ALL HANGERS, STRAPS, CLIPS, ETC. NAILED AS PER MANUFACTURER'S SPECS.
- FASTENING CONDITIONS NOT ADDRESSED ABOVE. TABLE 2304, I.O. 1, 2019 C.B.C.

SHEATHING NAILING & NOTES:

- DO NOT CRUSH SHEATHING FACE PLY (OUTER VENEER LAYER) BY OVER DRIVING SCREWS, MACHINE, OR HAND NAILS.
- UNDER DRIVEN NAILS SHALL BE CORRECTED BY HAND SET.
- REMOVE AND REPLACE NAILS DRIVEN THAT MISS FRAMING OR SUPPORT.
- ALL CORRECTIVE NAILING SHALL BE DONE BY HAND NAILING.
- H.D.G. = HOT DIPPED GALVANIZED WITH MINIMUM COATING OF 1 OZ PER SQ. FT. OF ZINC, OR MECHANICALLY GALVANIZED PER ASTM F-1667.
- FOR BLOCKED DIAPHRAGMS, BLOCK PANEL EDGES PER #154.1.
- MINIMUM SHEATHING PANEL WIDTH SHALL BE 24" PER AISI S213, D3.2

SIDING	
EXTERIOR SIDING	INTO WOOD STUDS; 3" x 2 1/2" # 6" o.c. PANEL EDGES, 12" o.c. IN FIELD, (H.D.G. OR MECH. GALV. NAILS, PER ASTM F-1667). INTO STEEL COLUMNS; #12-24 x 2" S.D.S. # 24" o.c.
GYP SUM WALLBOARD	
1/2" GYP. BOARD TO 2x4, 2x6, OR 2x8 STUDS	J21 x 1 1/2" COATED NAILS # 8" o.c. EDGES, 8" o.c. IN FIELD.
OVERHANG SOFFIT	
1/2" APA RATED SHEATHING	#8 x 1" S.M.S. # 6" o.c. EDGES, 12" o.c. IN FIELD (PRE-PUNCHED HOLES IN STEEL)

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STRUCTURAL ENGINEERING
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STATE OF CALIFORNIA

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FASTENING SCHEDULE
& NOTES

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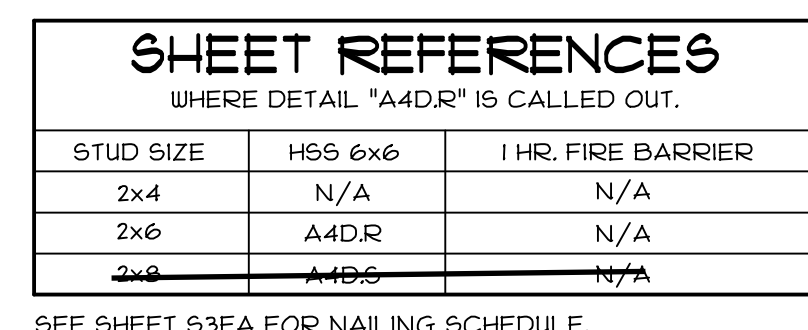
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S3FA

24"x40" TO 120"x60" P.C.



2x6 STUDS

DOUBLE 2x6 PLATES

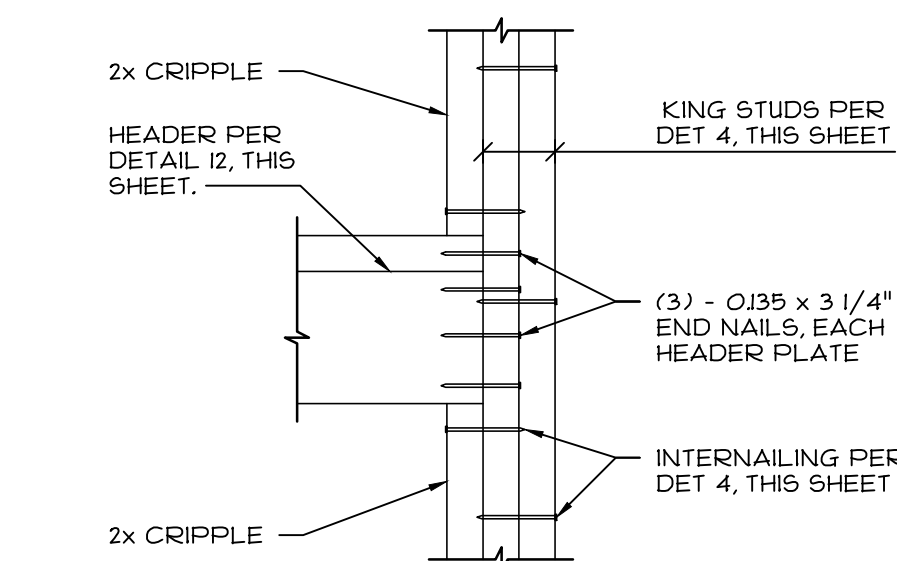
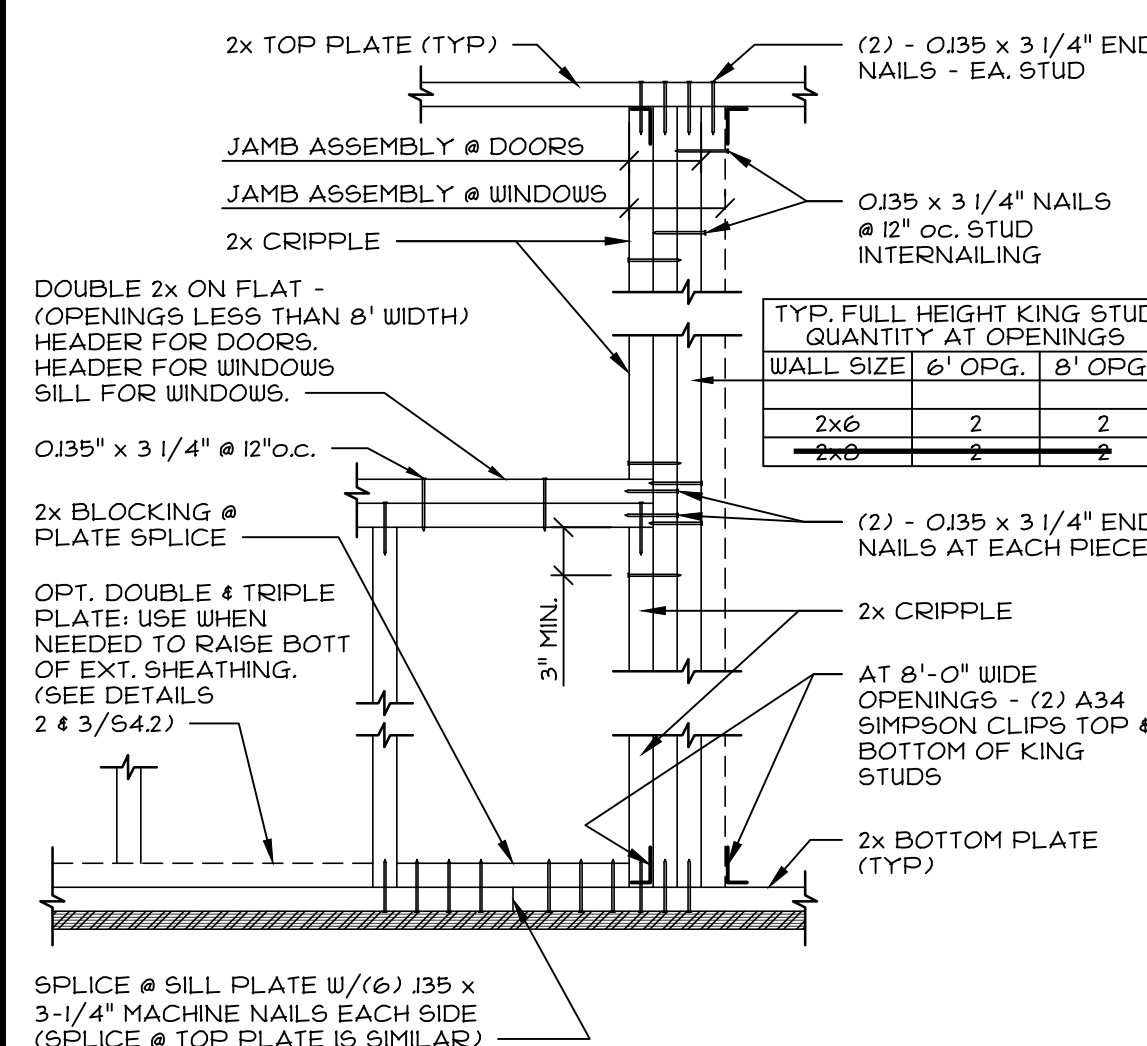
2 ROWS 16d #6 @ 6" o.c.
STAGGERED EA. SIDE

AT 2x6 WALLS
(6'-0" MAX OPENINGS)

AT 2x6 WALLS
(8'-0" MAX OPENINGS)

AT 2x8 WALLS
(8'-0" MAX OPENINGS)

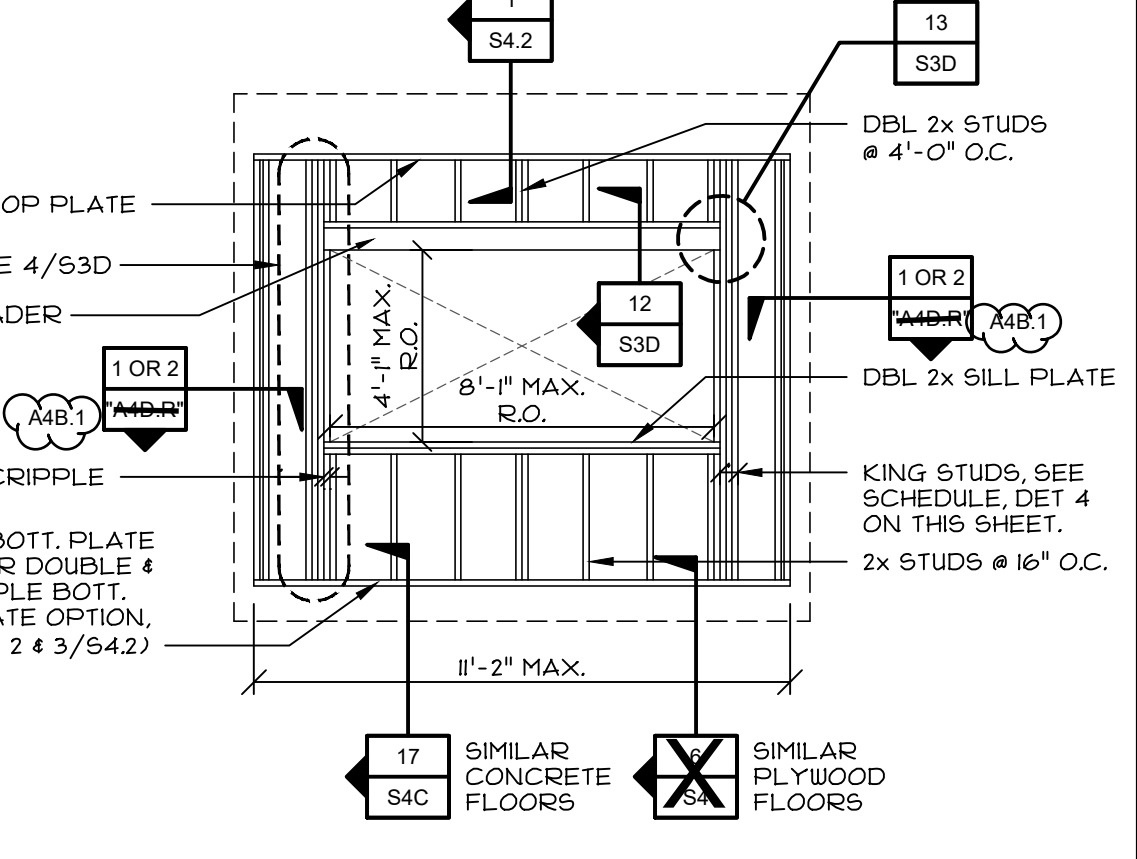
WINDOW HEADER CONFIGURATIONS



Technical drawing of a roof beam connection showing reinforcement details and dimensions. The drawing includes the following annotations:

- Top Left:** DIMENSION FROM INSIDE FACE OF COLUMN, TO EDGE OF NEAREST OPENING - ROOF BEAM DEPTH MIN.
- Top Right:** 28" x 8" HOLE FOR 3 TON HVAC UNIT OR OPTIONAL 30" x 10" HOLE FOR 3.5-TON HVAC, OR OPTIONAL 20" x 8" HOLE FOR 2 TON HVAC
- Center:** 12" PRINT, 5" MIN.
- Bottom Left:** 11 (SDPH), 9'-2" MAX.
- Bottom Center:** REINFORCEMENT TOP AND BOTTOM OF OPENING PER PLAN, HSB COLUMN, BLOCKING.
- Bottom Right:** LOCATE HOLE IN MIDDLE 1/3 OF ROOF BEAM HEIGHT, OPTIONAL SINGLE OR MULTIPLE 3" MAX. HOLES(S), DIMENSION FROM INSIDE FACE OF COLUMN, TO EDGE OF NEAREST OPENING - ROOF BEAM DEPTH MIN.

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
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2x TOP PLATE

2x STUDS @ 16"o.c.

2x CRIPPLE

SEE 4/S3D

2x BOTT. PLATE
(FOR DOUBLE &
TRIPLE BOTT.
PLATE OPTION,
SEE 2 4/S4.2)

SINGLE 2x HOR.
@ 2'-0" OPENING

DBL. 2x STUDS
@ 4'-0" o.c.

DBL. 2x BLOCKING

(2) 2x KING STUDS

(3) 2x STUDS FOR
HVAC SUPPORT AND
ATTACHMENT

11"-2" MAX.

17
SIMILAR
CONCRETE

18
SIMILAR
PLYWOOD

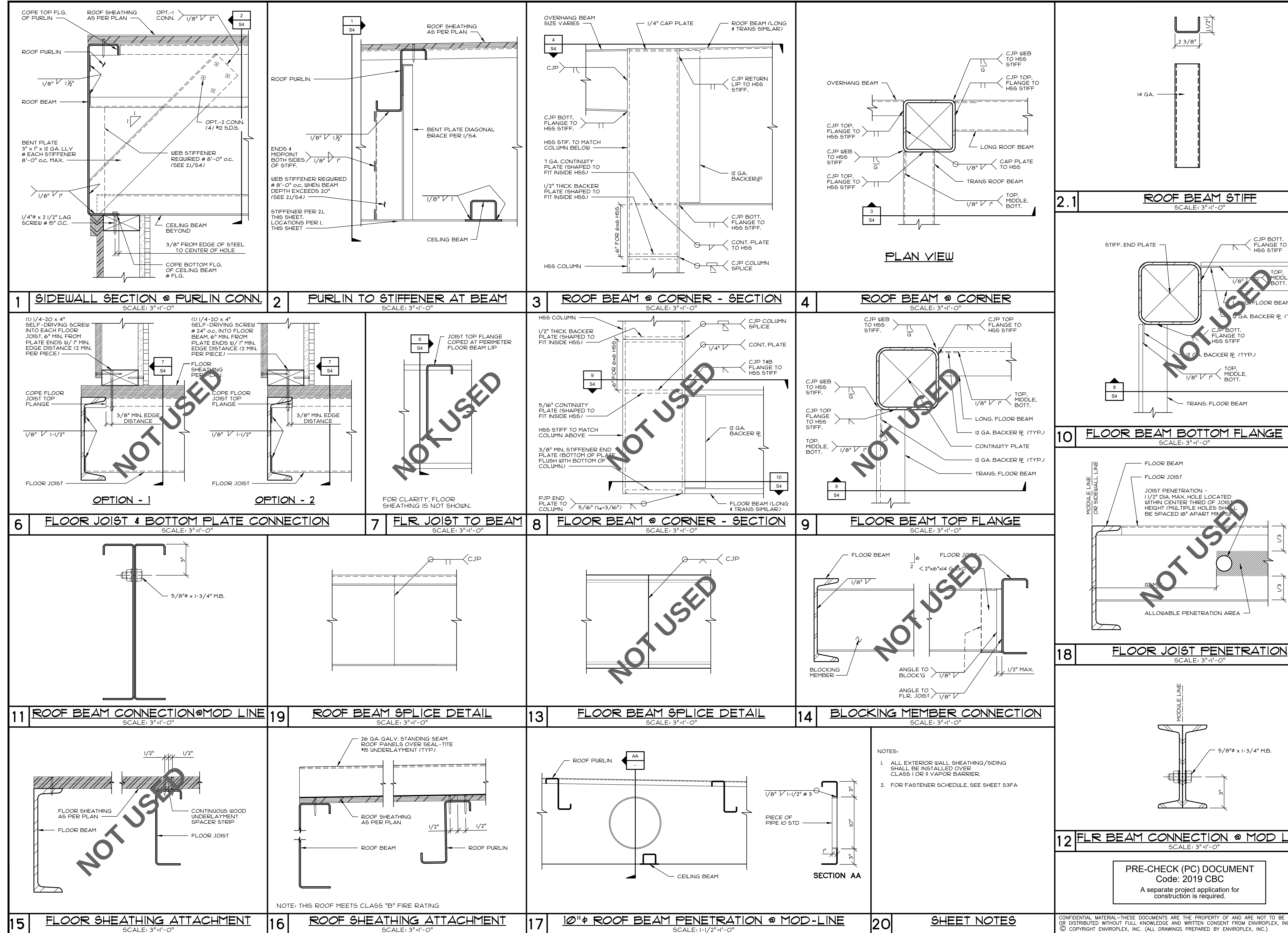
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S4.2

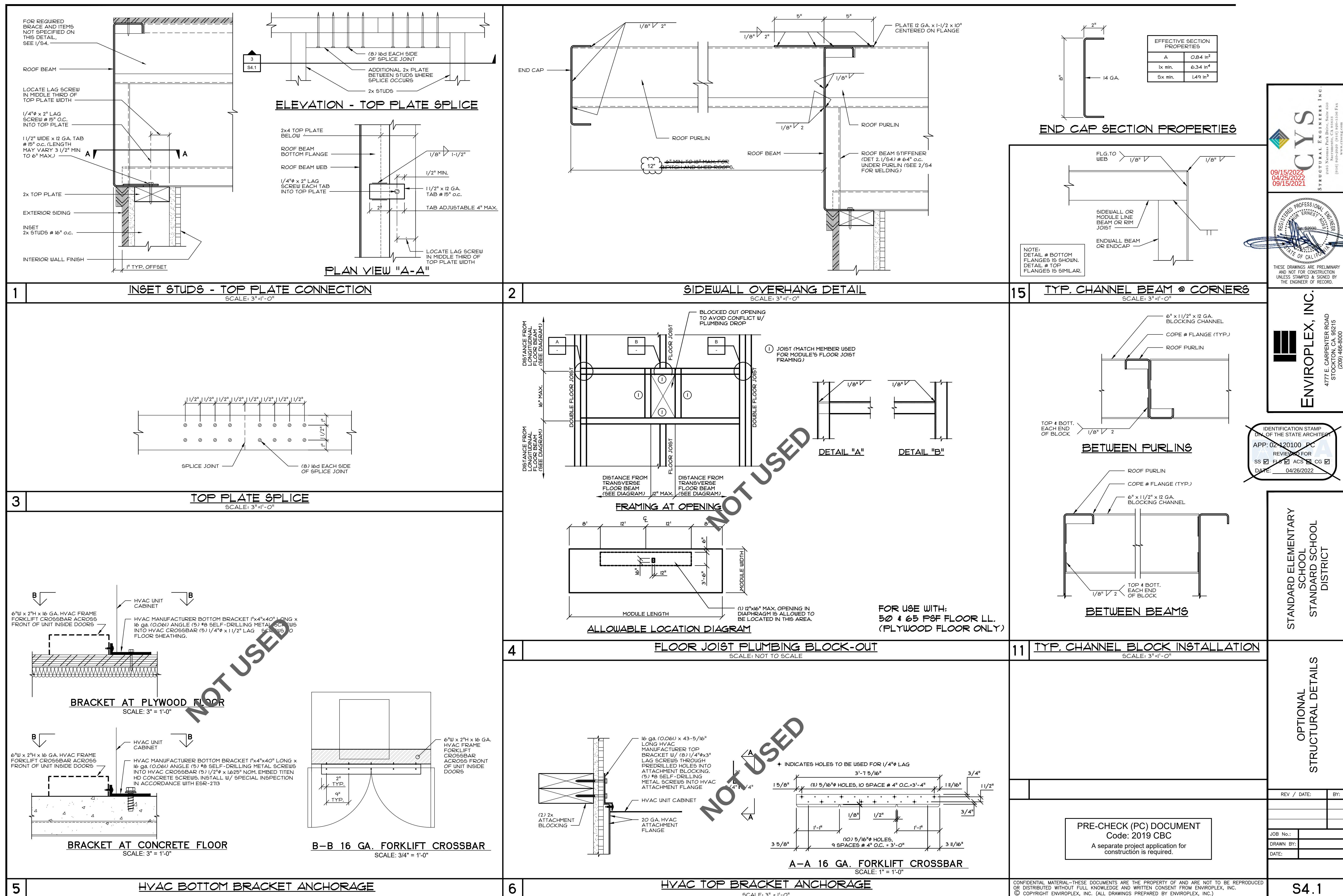
1 OR 2
AAB-3
BOTTOM PLATE

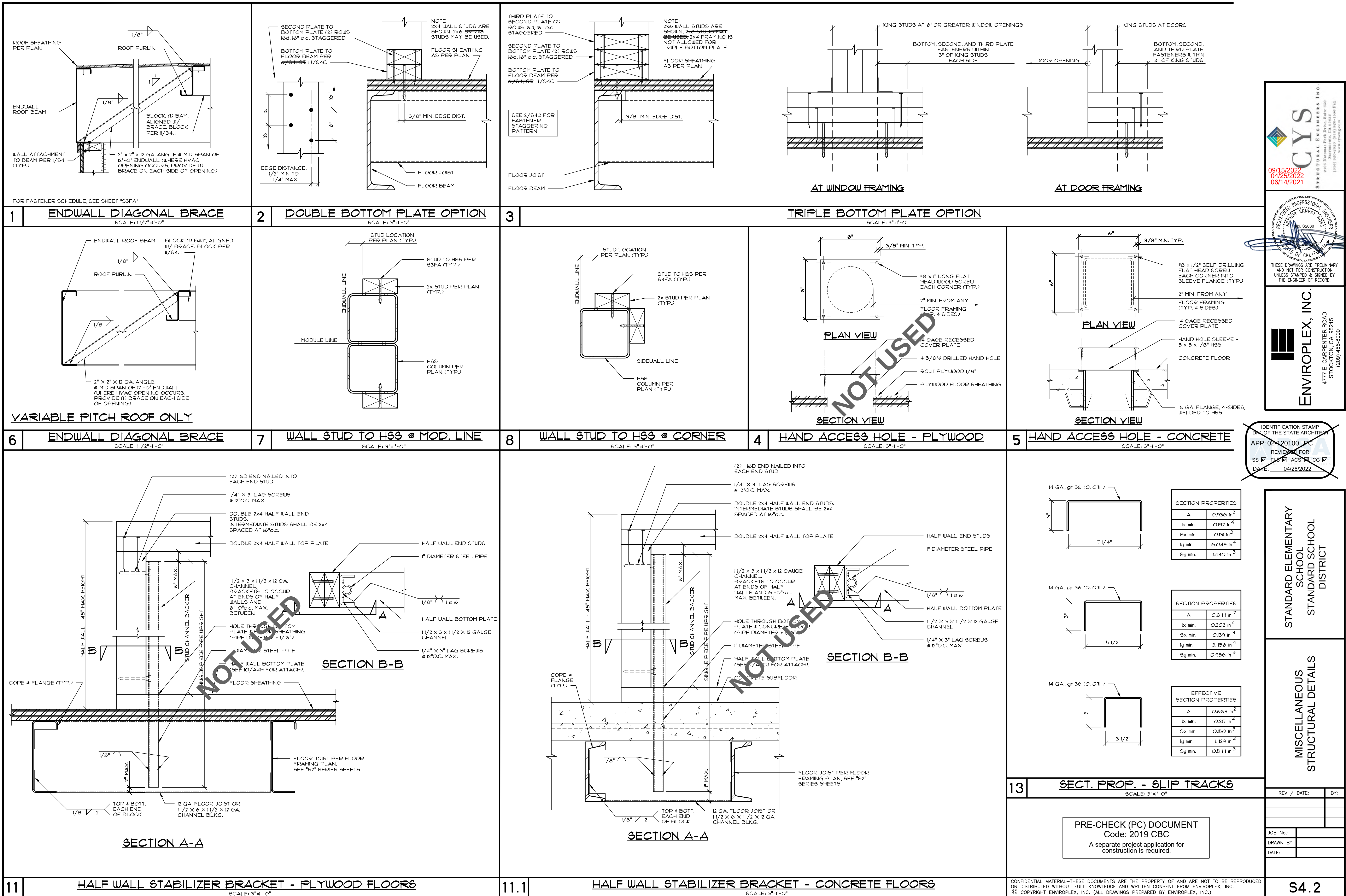
AAB-3

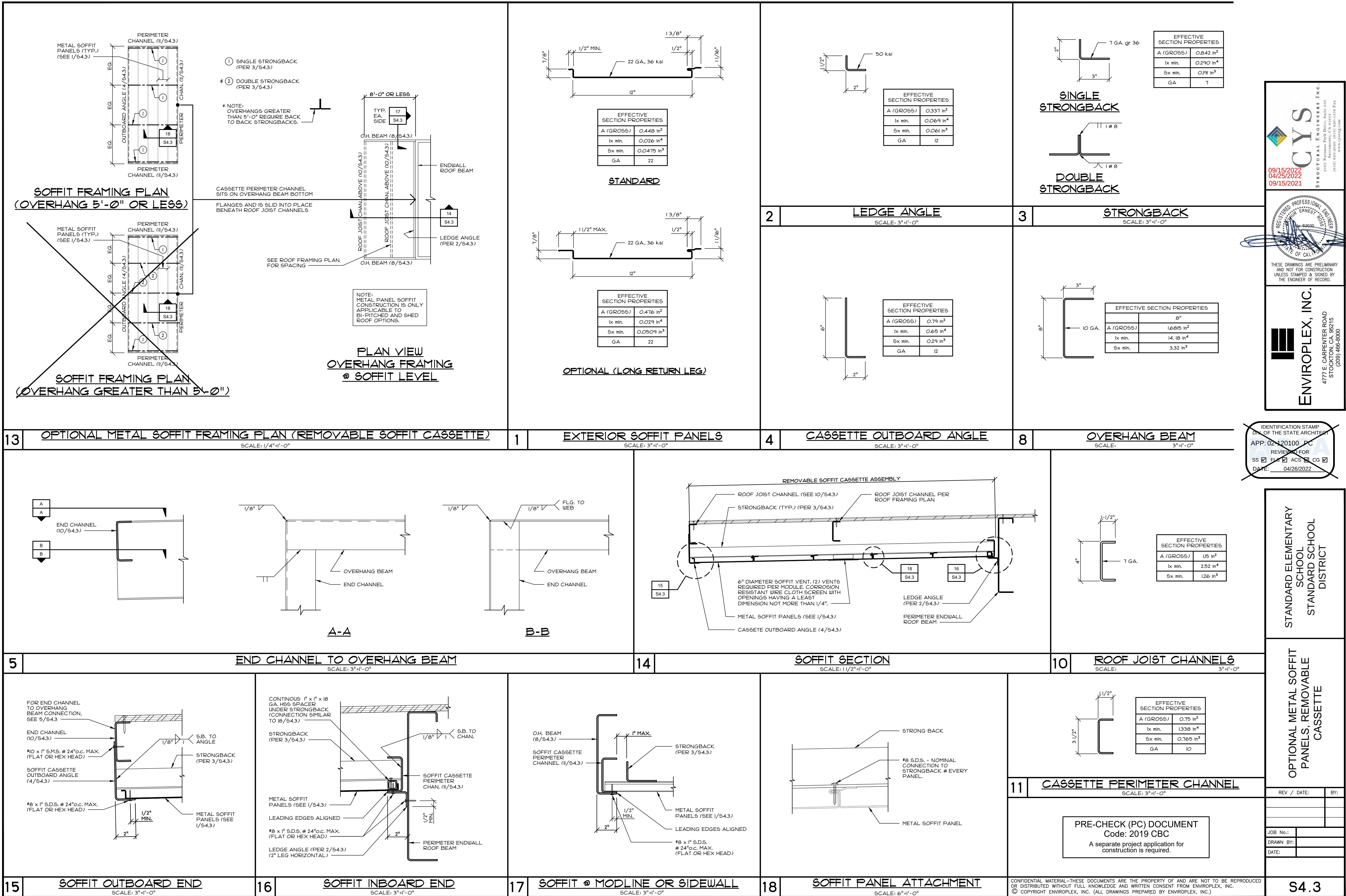
AAB-3

WALL FRAMING - EXTERIOR HYAC









NOTE: METAL PANEL SOFFIT CONSTRUCTION IS ONLY APPLICABLE TO BI-PITCHED AND SHED ROOF OPTIONS. ① SINGLE STRONGBACK (PER 3/54.3) ② PERIMETER CHANNEL (PER 1/54.3) ③ OUTBOARD ANGLE (4/54.3) CASSETTE PERIMETER CHANNEL SITS ON OVERHANG BEAM BOTTOM FLANGES AND IS SLID INTO PLACE BENEATH ROOF JOIST CHANNELS PLAN VIEW REMOVABLE SOFFIT CASSETTE PLAN VIEW OVERHANG FRAMING @ SOFFIT LEVEL			
13 SOFFIT FRAMING PLAN (WITH WALL MOUNT HVAC UNIT) SCALE: 1/4"=1'-0" REMOVABLE SOFFIT CASSETTE ASSEMBLY ROOF JOIST CHANNEL (SEE 10/54.3) STRONGBACK (TYP.) (PER 3/54.3) 6" DIAMETER SOFFIT VENT. (2) VENTS REQUIRED PER MODULE. CORROSION RESISTANT WIRE CLOTH SCREEN WITH OPENINGS HAVING A LEAD DIMENSION NOT MORE THAN 1/4". METAL SOFFIT PANELS (SEE 1/54.3) CASSETTE OUTBOARD ANGLE (4/54.3) 16 S4.3 18 S4.3 LEGE ANGLE (PER 2/54.3) PERIMETER ENDWALL ROOF BEAM			
14 SOFFIT SECTION SCALE: 1/2"=1'-0" ROOF JOIST CHANNEL (SEE 10/54.3) CASSETTE OUTBOARD ANGLE (4/54.3) METAL SOFFIT PANELS (SEE 1/54.3) SOFFIT LINE BEYOND OUTLINE OF HVAC CABINET 15 S4.3 PERIMETER ENDWALL ROOF BEAM	STRONGBACK (PER 3/54.3) METAL SOFFIT PANELS (SEE 1/54.3) ATTACHMENT TO STRONGBACK PER 18/54.3 SECTION A-A PERIMETER CHANNEL RETURNS AROUND HVAC UNIT (MITRE CORNER 45°) STRONGBACK CARRIES THROUGH STRONGBACK (PER 3/54.3) CHAN. FLG. 1/8" T & B CHAN. WEB 1/8" V LINE OF HVAC CABINET SOFFIT CASSETTE PERIMETER CHAN. (18/54.3) PLAN VIEW	STRONGBACK (PER 3/54.3) METAL SOFFIT PANELS (SEE 1/54.3) LINE OF HVAC CABINET SOFFIT CASSETTE PERIMETER CHAN. (18/54.3) 18 S4.4	STANDARD ELEMENTARY SCHOOL STANDARD SCHOOL DISTRICT OPTIONAL METAL SOFFIT PANELS, REMOVABLE CASSETTE WITH WALL MOUNT HVAC UNIT REV / DATE: BY: JOB No.: DRAWN BY: DATE: PRE-CHECK (PC) DOCUMENT Code: 2019 CBC A separate project application for construction is required.
15 SOFFIT SECTION @ HVAC OPENING SCALE: 1/2"=1'-0"	17 ANGLES ADJACENT TO HVAC SCALE: 3/4"=1'-0"	18 ANGLES ADJACENT TO HVAC SCALE: 3/4"=1'-0"	CONFIDENTIAL MATERIAL- THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC. © COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.) S4.4

24'x40' TO 120'x40' P.C.