

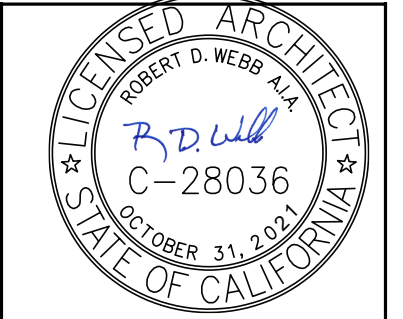
DEMOLITION KEY NOTES

- ① SAWCUT AND REMOVE EXISTING CONCRETE TO NEAREST CONTROL JOINT.
- ② PROTECT IN PLACE EXISTING WATER TO REMAIN
- ③ PROTECT IN PLACE EXISTING SEWER TO REMAIN
- ④ REFER TO ELECTRICAL PLANS FOR LOCATIONS OF EXISTING ELECTRICAL AND COMMUNICATIONS UTILITIES TO REMAIN AND ELECTRICAL AND TELECOM REMOVALS AND RELOCATIONS
- ⑤ SAWCUT AND REMOVE EXISTING AC AND BASE
- ⑥ REMOVE EXISTING PORTABLE BUILDING AND RAMP, INCLUDING FOUNDATIONS
- ⑦ CLEAR AND GRUB ANY EXISTING VEGETATION IN DIRT AREA. REMOVE EXISTING ROOTS.
- ⑧ PROTECT IN PLACE EXISTING SD LINE TO REMAIN
- ⑨ PROTECT IN PLACE EXISTING CATCH BASIN TO REMAIN
- ⑩ REFER TO ARCHITECTURAL PLANS FOR LIMITS OF CHAIN LINK FENCE REMOVAL
- ⑪ PROTECT IN PLACE EXISTING TREE TO REMAIN
- ⑫ PROTECT IN PLACE EXISTING AC BERM TO REMAIN
- ⑬ EXISTING SIGN TO BE REMOVED

DEMOLITION LEGEND

- REMOVE EXISTING PAVEMENT, INCLUDING BASE
- EXISTING STRUCTURE TO BE REMOVED INCLUDING FOOTINGS REFER TO ARCH PLANS
- CIVIL LIMIT OF WORK/DISTURBANCE LIMIT
- EXISTING CURB TO BE REMOVED

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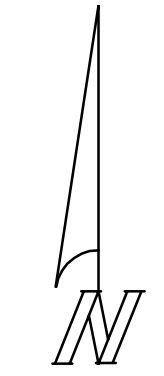
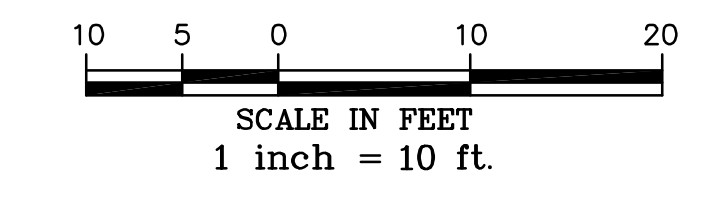


**PRIDE ACADEMY @ PROSPECT
 AVENUE ELEMENTARY SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT**

**TOPOGRAPHIC SURVEY/
 SITE DEMOLITION PLAN**

Drawn: CAR
 Check: DVC/RI
 Date: OCT 1, 2019
 Job: SSD-PA-03

C1.0

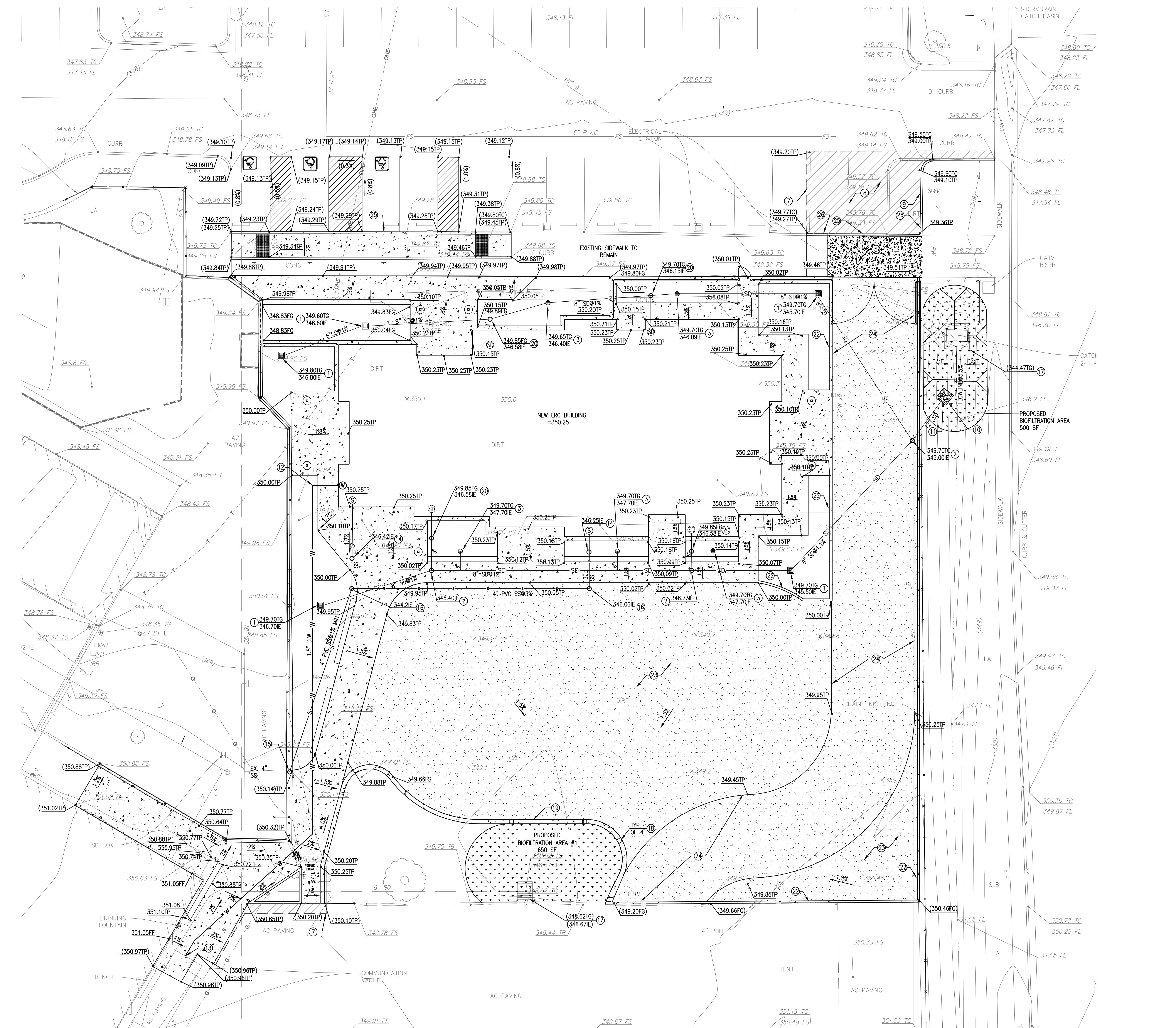


GRADING KEY NOTES:

- 1 12"x12" CATCH BASIN PER DETAIL A, SHEET C4.0
- 2 STORM DRAIN CLEANOUT TO GRADE PER DETAIL B, SHEET C4.0
- 3 6" AREA DRAIN PER DETAIL C, SHEET C4.0
- 4 CONCRETE SIDEWALK PER DETAIL D AND E, SHEET C4.0
- 5 CONCRETE DRIVEWAY FOR FIRE LANE PER DETAIL M, SHEET C4.0
- 6 NOT USED
- 7 SAWCUT EXISTING AC PAVEMENT
- 8 FIRE LANE AC PAVEMENT PER DETAIL F, SHEET C4.0
- 9 6" CONCRETE CURB PER DETAIL G, SHEET C4.0
- 10 3'X3'X0.5' RIP-RAP OUTFALL. RIP-RAP SHALL BE NO. 2 BACKING. COMPACT UPPER 12" OF EXISTING SOIL TO 90% RELATIVE COMPACTION PER ASTM D1557 PRIOR TO PLACING RIP-RAP
- 11 TYPE "A" STRAIGHT CONCRETE HEADWALL PER SDRS D-30
- 12 1.5" DOMESTIC WATER SERVICE POINT OF CONNECTION AT 5' OUTSIDE BUILDING. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING WATER ON-SITE. REFER TO PLUMBING PLANS FOR CONTINUATION
- 13 CONNECT TO EXISTING 2" SITE DOMESTIC WATER. PROVIDE CUT IN TEE AND BALL VALVE AND CONNECT TO EXISTING. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICE AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO LATERAL CONSTRUCTION.
- 14 4" SEWER POINT OF CONNECTION AT 5' OUTSIDE BUILDING. PROVIDE SEWER CLEANOUT TO GRADE PER DETAIL B, SHEET C4.0. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING SEWER ON-SITE. REFER TO PLUMBING PLANS FOR CONTINUATION
- 15 CONNECT TO EXISTING 4" SEWER. CONTRACTOR TO POTHOLE TO VERIFY LOCATION AND DEPTH OF EXISTING SEWER. CONTRACTOR TO NOTIFY ENGINEER OF WORK OF CONFLICTS PRIOR TO NEW LATERAL CONSTRUCTION. PROVIDE SEWER CLEANOUT TO GRADE PER DETAIL B, SHEET C4.0.
- 16 PROVIDE SEWER CLEANOUT TO GRADE PER DETAIL B, SHEET C4.0.
- 17 EXISTING CATCH BASIN TO REMAIN
- 18 12" WIDE BREAK IN MOW CURB
- 19 12" WIDE MOW CURB PER DETAIL M, SHEET C4.0
- 20 3" STORM DRAIN POINT OF CONNECTION AT 5' OUTSIDE BUILDING. PROVIDE STORM DRAIN CLEANOUT TO GRADE PER DETAIL B, SHEET C4.0.
- 21 NEW AC PAVEMENT FOR VEHICULAR LOADING PER DETAIL F, SHEET C4.0
- 22 6" WIDE MOW CURB PER DETAIL M, SHEET C4.0
- 23 STABILIZED DECOMPOSED GRANITE PEDESTRIAN PAVING PER DETAIL H, C4.0
- 24 STABILIZED DECOMPOSED GRANITE PAVING FOR FIRE LANES PER DETAIL I, C4.0
- 25 0" FLUSH CONCRETE CURB
- 26 5 LF - 0" TO 6" CURB TRANSITION

CIVIL LEGEND

EXISTING CONDITIONS		DESCRIPTION
— S —	SYMBOL	EXISTING SEWER
— W —		EXISTING WATER
— G —		EXISTING GAS
— E —		EXISTING ELECTRICAL
— 100 —		EXISTING EDGE OF PAVEMENT
— 100.00 — OR — 100 —		EXISTING CONTOUR
— ROW —		EXISTING ELEVATION
— FL —		EXISTING FENCE
— —		RIGHT-OF-WAY LINE
— —		PROPERTY LINE
— —		EXISTING EASEMENT
PROPOSED CONSTRUCTION		DESCRIPTION
— 5% —	SYMBOL	SLOPE DIRECTION
— 101 —		1' CONTOUR
— 1529.73TP —		SPOT ELEVATION
— SD —		PVC STORM DRAIN
— [Symbol] —		DETAIL A, SHEET C4.0 12"x12" PRECAST CATCH BASIN
— [Symbol] —		DETAIL B, SHEET C4.0 STORM DRAIN OR SEWER CLEANOUT
— [Symbol] —		DETAIL C, SHEET C4.0 AREA DRAIN
— [Symbol] —		DETAIL D, SHEET C4.0 CONCRETE SIDEWALK AND JOINTS
— [Symbol] —		DETAIL M, SHEET C4.0 CONCRETE FOR FIRE LANES
— [Symbol] —		DETAIL HJ SHEET C4.0 STABILIZED DECOMPOSED GRANITE SURFACING
— [Symbol] —		DETAIL F, SHEET C4.0 AC PAVEMENT FOR FIRE LANES
— [Symbol] —		DETAIL G, SHEET C4.0 6" CONCRETE CURB
— [Symbol] —		DETAIL M, SHEET C4.0 0" CONCRETE MOW CURB WIDTH PER PLAN
— [Symbol] —		DETAIL M, SHEET C4.0 0" CONCRETE MOW CURB WITH 12" CURB CUTS
— [Symbol] —		AC SAWCUT
— [Symbol] —		SDRS D-30
— [Symbol] —		DETAIL K.L SHEET C4.0 BIOFILTRATION AREA
— [Symbol] —		DOMESTIC WATER BLDG POINT OF CONNECTION
— [Symbol] —		SANITARY SEWER BLDG POINT OF CONNECTION
— [Symbol] —		STORM DRAIN BLDG POINT OF CONNECTION



GENERAL NOTES

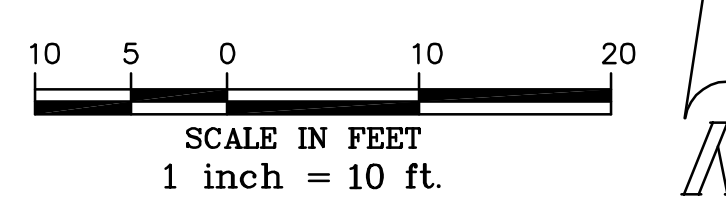
1. PROTECT ALL EXISTING UTILITIES UNLESS OTHERWISE NOTED PER PLAN.
2. REPLACE PAVING OVER NEW UTILITY TRENCHES TO MATCH EXISTING WHERE OCCURS
3. NOTIFY ENGINEER OF RECORD IMMEDIATELY IF FIELD LOCATION OR DEPTH OF EXISTING UTILITIES DIFFER SIGNIFICANTLY FROM PLAN.
4. CONTRACTOR SHALL VERIFY VIA TOPOGRAPHIC SURVEY ELEVATIONS OF EXISTING PAVEMENT AT INTERFACE OF NEW PAVING PRIOR TO BEGINNING OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES BETWEEN PLAN AND ACTUAL FIELD CONDITIONS.
5. ALL PROPOSED UTILITY TRENCHING SHALL CONFORM TO SAN DIEGO REGIONAL STANDARD DRAWING DETAILS SDG-107 AND SDG-108, UNLESS OTHERWISE NOTED.
6. BUILDING ENVELOPE DEPICTED ON CIVIL PLANS REPRESENTS LIMITS OF SITEWORK. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS AND PRECISE SITING OF NEW BUILDING

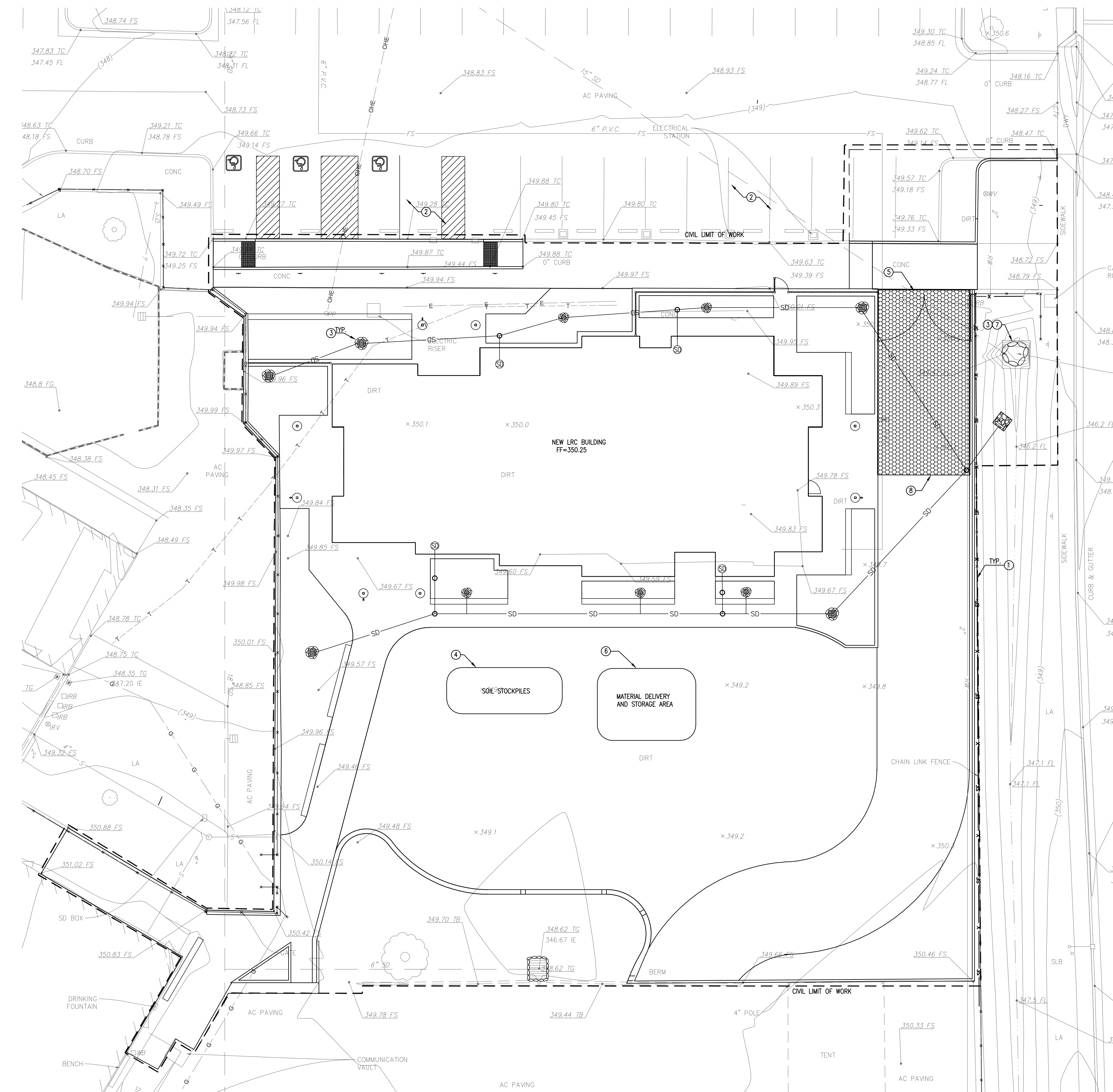
UTILITY NOTES

1. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON VISUAL OBSERVATION OF ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED BY THE OWNER. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK.

CIVIL WORK TO BE DONE:

- UNLESS OTHERWISE NOTED ON THE PLANS, ALL WORK SHALL CONFORM WITH THE FOLLOWING STANDARD SPECIFICATIONS AND DRAWINGS:
1. SAN DIEGO REGIONAL STANDARD DRAWINGS (SDRS), LATEST EDITION
 2. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND SPECIAL PROVISIONS, LATEST EDITION.
 3. CALIFORNIA DEPARTMENT OF TRANSPORTATION, "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES," LATEST EDITION.
 4. CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA), STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK—CONSTRUCTION, LATEST EDITION.
 5. CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.





EROSION AND SEDIMENT CONTROL KEY NOTES:

- ① PLACE SILT FENCE (SE-1) ALONG PERIMETER OF THE PROJECT VICINITY, BOTTOM OF SLOPES
- ② PROVIDE STREET SWEEPING (SE-7) ANYWHERE SEDIMENT IS TRACKED FROM PROJECT SITE ONTO PAVED ROADS
- ③ INSTALL STORM DRAIN INLET PROTECTION (SE-10) TYPE 2 (EXCAVATED DROP INLET SEDIMENT TRAP) FOR NEW DRAIN INLETS AND EXISTING DRAIN INLETS WHERE APPLICABLE. PROVIDE TEMPORARY GEOTEXTILE FILTER FABRIC INLET PROTECTION BENEATH GRATE FOR SMALL AREA DRAINS.
- ④ SUGGESTED LOCATION OF SOIL STOCKPILES. APPLY WATER AT INTERVALS REQUIRED TO PROVIDE WIND EROSION CONTROL (WE-1) AT STOCKPILES
- ⑤ INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT (TC-01). SUGGESTED LOCATION SHOWN ON PLAN. LOCATE WHERE MOST CONVENIENT FOR CONSTRUCTION OPERATIONS
- ⑥ SUGGESTED LOCATION OF MATERIALS DELIVERY AND STORAGE AREA (WM-1). LOCATE WHERE CONVENIENT TO CONSTRUCTION OPERATIONS
- ⑦ SITE STORM WATER DISCHARGE POINT (LOW POINT). SUGGESTED LOCATION FOR STORMWATER QUALITY SAMPLING, IF REQUIRED
- ⑧ PROVIDE 20' WIDE, 40' LONG PER CONSTRUCTION ENTRANCE (TC-1)

EROSION CONTROL LEGEND

SYMBOL	DETAIL REFERENCE	DESCRIPTION
	CASQA SE-1	SILT FENCE
	CASQA TC-1	STABILIZED CONSTRUCTION ENTRANCE/EXIT
	CASQA SE-10	TEMPORARY INLET PROTECTION

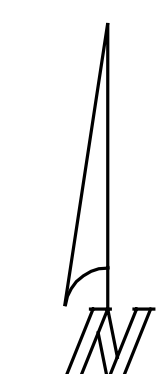
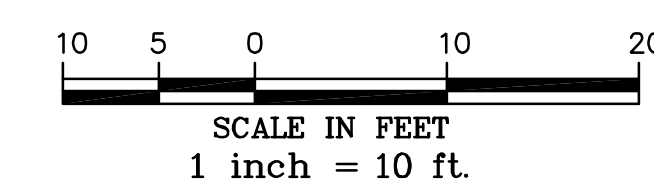
EROSION CONTROL NOTES

- TEMPORARY EROSION CONTROL PRIOR TO COMPLETION OF FINAL IMPROVEMENTS SHALL BE PERFORMED BY THE CONTRACTOR AS INDICATED BELOW:
1. FOR GRADED DRIVEWAYS WITH SLOPE GREATER THAN 2%, PROVIDE DESILTING BASINS AS INDICATED ON DETAILS.
 2. FOR STORM DRAIN INLET, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
 3. FOR INLETS LOCATED AT SLOPES ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1'00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
 4. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET DUE TO CONSTRUCTION ACTIVITY.
 5. THE CONTRACTOR SHALL CHECK AND MAINTAIN LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
 6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL OR WHEN SILT REACHES AN ELEVATION OF 0.5' BELOW WEIR OPENING FOR GRAVEL BAG BASINS.
 7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
 8. DEVICES SHOWN ON PLAN SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE QUALIFIED SWPPP PRACTICER AND THE ENGINEER OF WORK.
 9. THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE QUALIFIED SWPPP PRACTICER AND ENGINEER OF WORK AFTER EACH RUN-OFF PRODUCING RAINFALL.
 10. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE QUALIFIED SWPPP PRACTICER AND THE ENGINEER OF WORK DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.
 11. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
 12. ALL EROSION CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON.
 13. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
 14. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
 15. THE CONTRACTOR SHALL GRADE, INCLUDING CLEARING AND GRUBBING, ONLY FOR THE AREAS FOR WHICH THE CONTRACTOR CAN PROVIDE EROSION CONTROL MEASURE.
 16. THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 30TH TO MARCH 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED SWPPP PRACTICER, EROSION CONTROL SUBCONTRACTOR IF ANY, AND DISTRICT REPRESENTATIVE TO EVALUATE THE ADEQUACY OF THE EROSION CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.
 17. THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

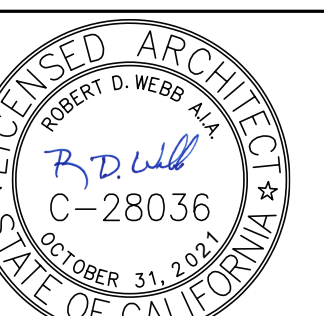
MINIMUM POST-CONSTRUCTION MAINTENANCE PLAN

AT THE COMPLETION OF THE WORK SHOWN, THE FOLLOWING PLAN SHALL BE FOLLOWED TO ENSURE WATER QUALITY CONTROL IS MAINTAINED FOR THE LIFE OF THE PROJECT:

1. STABILIZATION: ALL PLANTED SLOPES AND OTHER VEGETATED AREAS SHALL BE INSPECTED PRIOR TO OCTOBER 1 OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN 1/8 INCH) AND REPAIRED AND REPLANTED AS NEEDED UNTIL A NOTICE OF TERMINATION (NOT) IS FILED.
2. STRUCTURAL PRACTICES: DESILTING BASINS, DIVERSION DITCHES, DOWNDRAINS, INLETS, OUTLET PROTECTION MEASURES, AND OTHER PERMANENT WATER QUALITY AND SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED PRIOR TO OCTOBER 1ST OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN 1/8 INCH). REPAIRS AND REPLACEMENTS SHALL BE MADE AS NEEDED AND RECORDED IN THE MAINTENANCE LOG IN PERPETUITY.
3. OPERATION AND MAINTENANCE, FUNDING: POST-CONSTRUCTION MANAGEMENT MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE TRANSFER OF RESPECTIVE SITE TO THE SCHOOL DISTRICT. AT THAT TIME, THE DISTRICT SHALL ASSUME RESPONSIBILITY FOR THEIR RESPECTIVE PORTIONS OF THE DEVELOPMENT.



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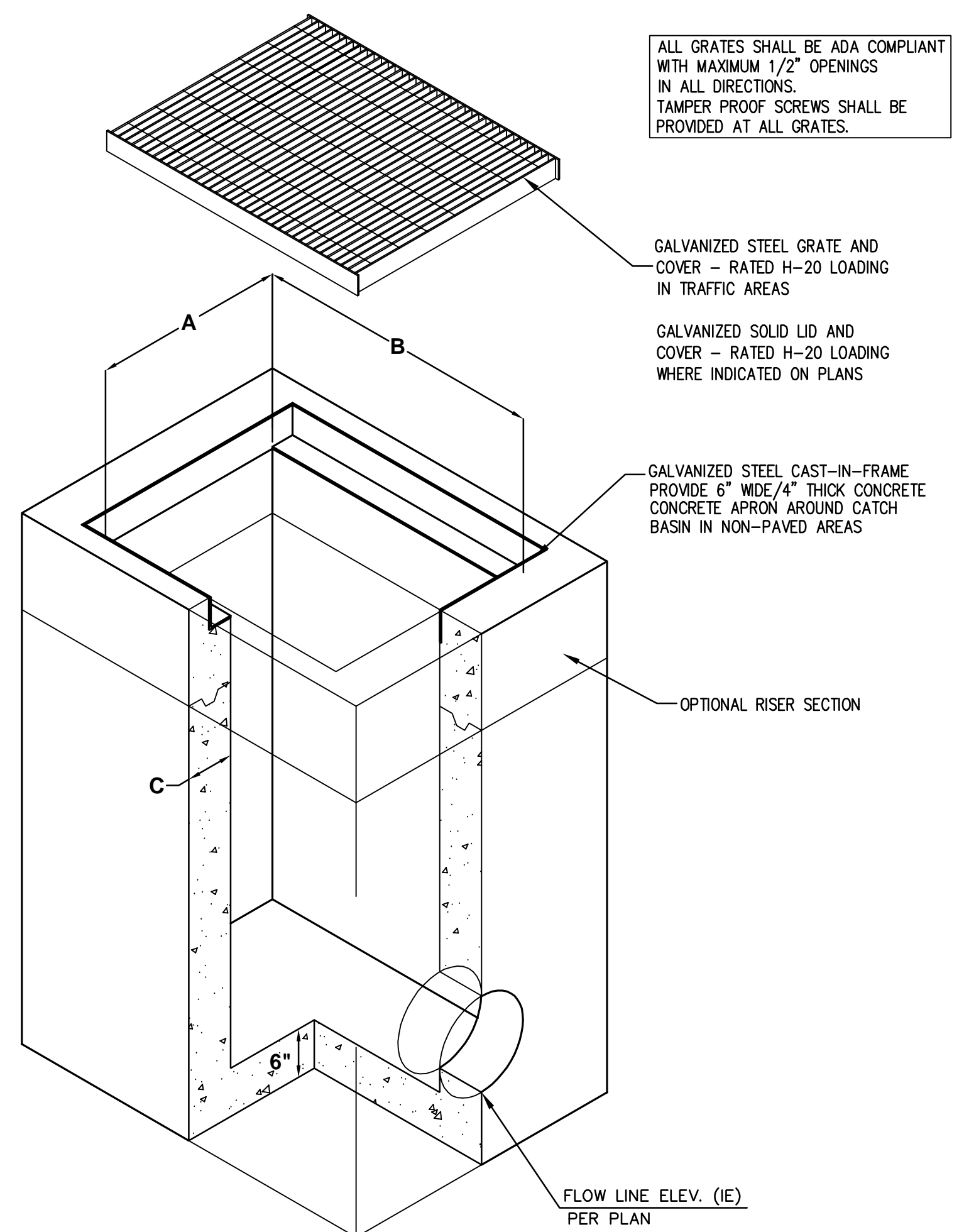


PRIDE ACADEMY @ PROSPECT AVENUE ELEMENTARY SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

EROSION AND SEDIMENT CONTROL PLAN

Drawn: CAR
 Checked: DVC/RI
 Date: OCT 1, 2019
 Job: SSD-PA-03

C3.0

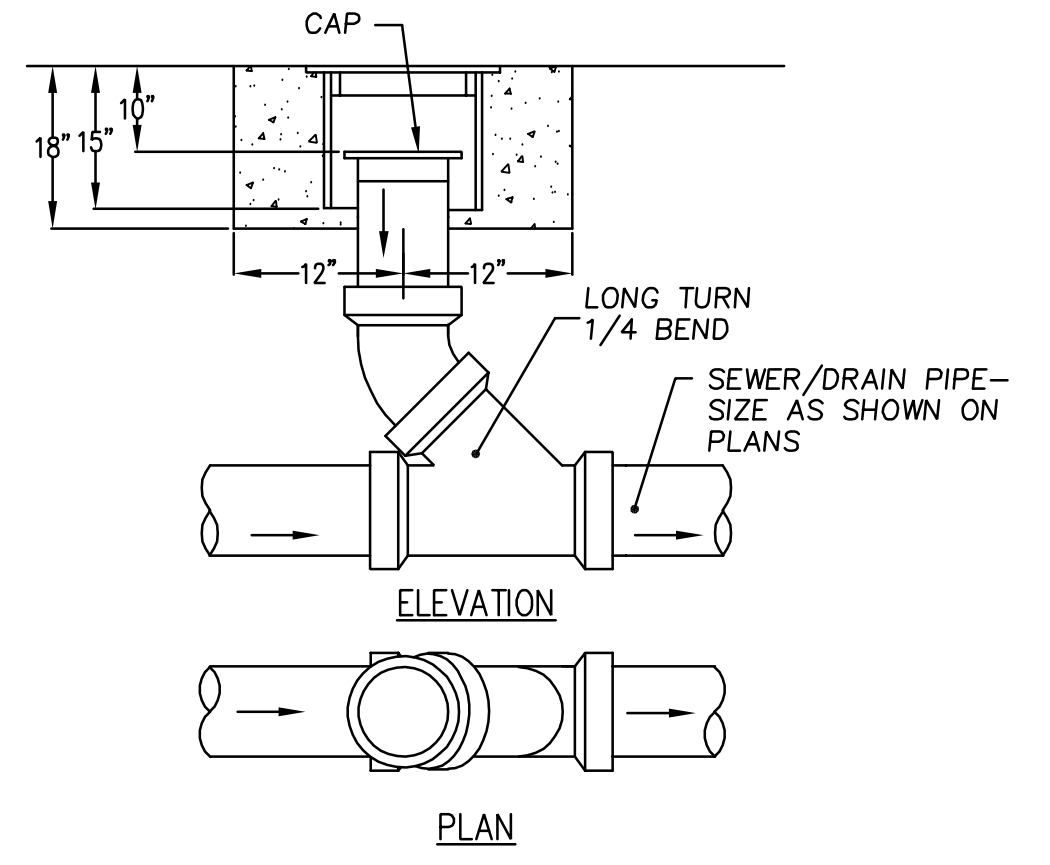


SIZE	A	B	C	WEIGHT CALC - LBS.
12"X12"	12"	12"	4"	208 (BASE) + 266 VF
18"X18"	18"	18"	5"	602 (BASE) + 604 VF
24"X24"	24"	24"	6"	675 (BASE) + 750 VF

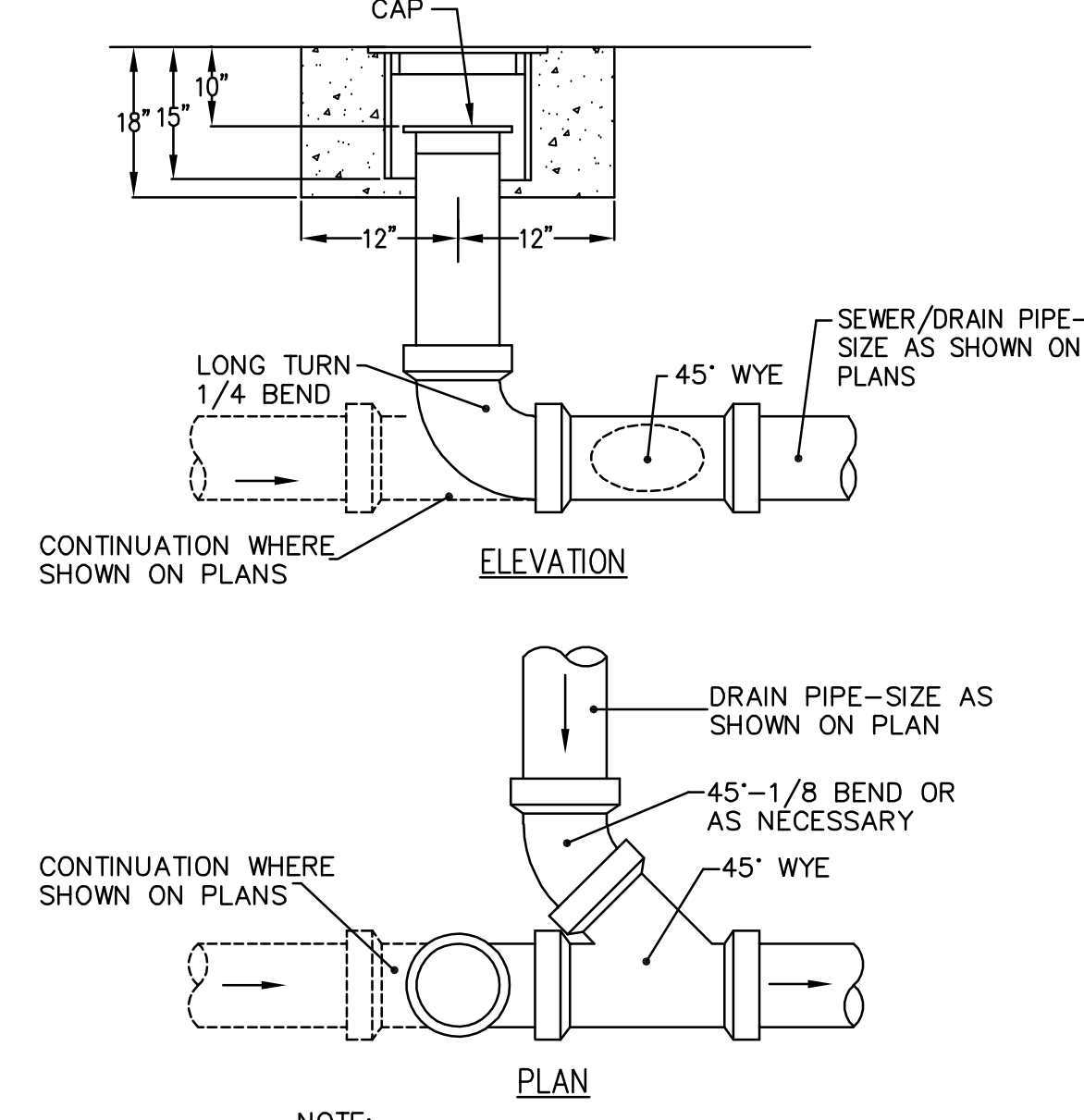
NOTES:
 1) FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST OR BROOKS PRODUCTS INC.
 2) CONTRACTOR SHALL PROVIDE CUT SHEETS FOR ALL CATCH BASINS AND AREA DRAIN GRATES WHICH SHOWS CONFORMANCE TO ADA REGULATIONS.

A PRECAST CATCH BASIN
 C4.0 NO SCALE

CLEANOUT W/ NO CHANGE IN DIRECTION

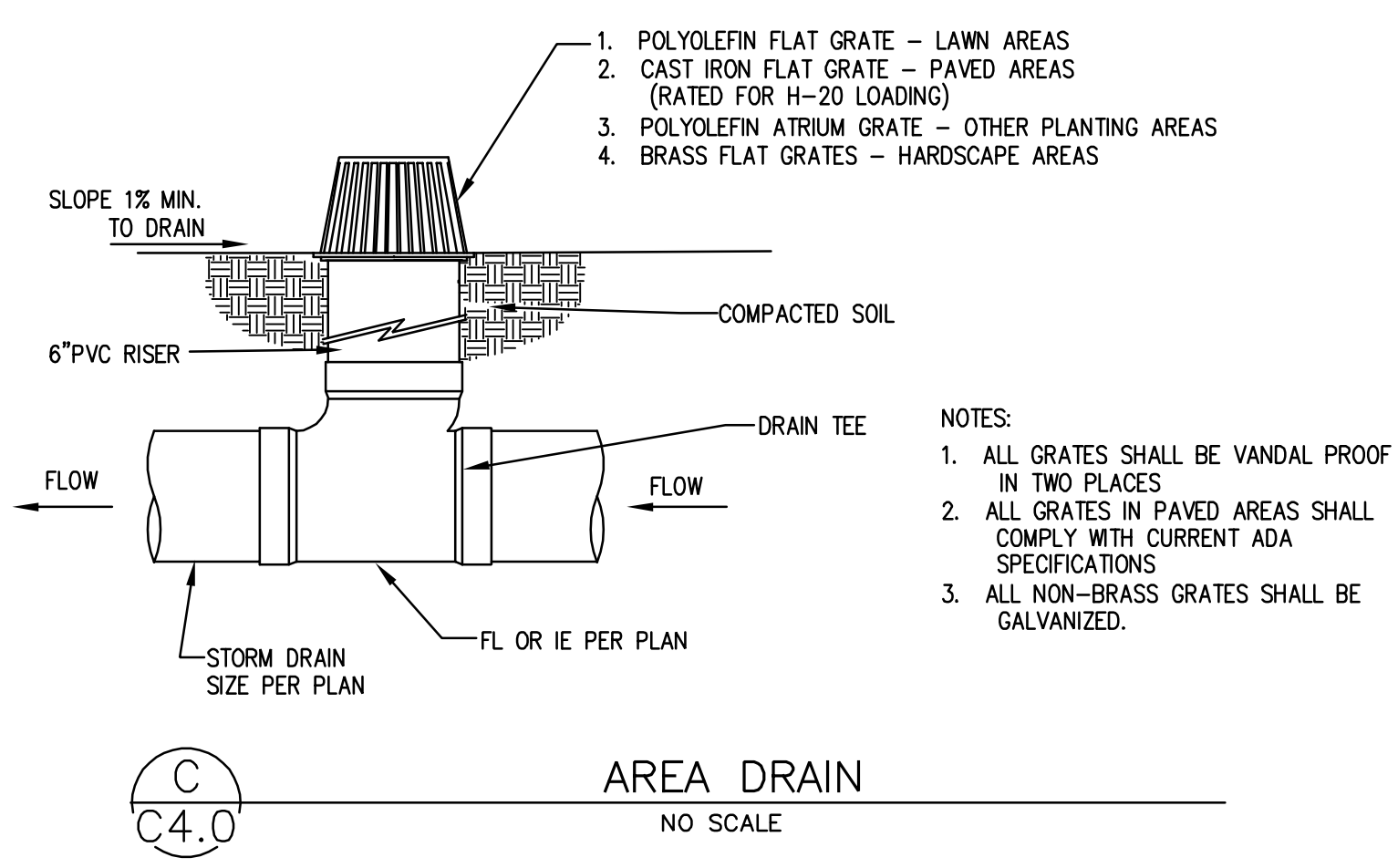


CLEANOUT W/ CHANGE IN DIRECTION

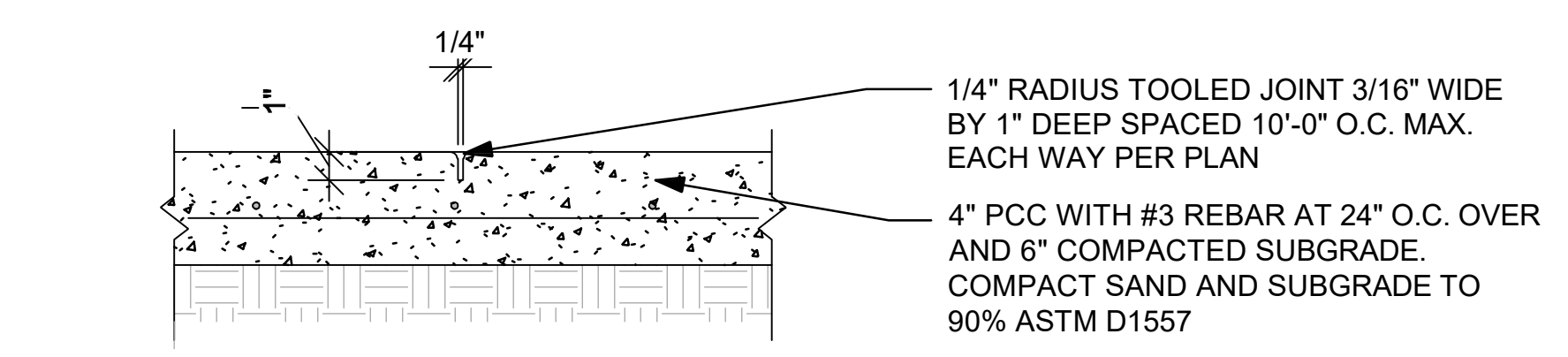


NOTE:
 STAND PIPE SIZE SHALL BE EQUIVALENT TO MAINLINE UP TO AND INCLUDING 8" PIPE. MAINLINE GREATER THAN 8" SHALL HAVE AN 8" STANDPIPE.

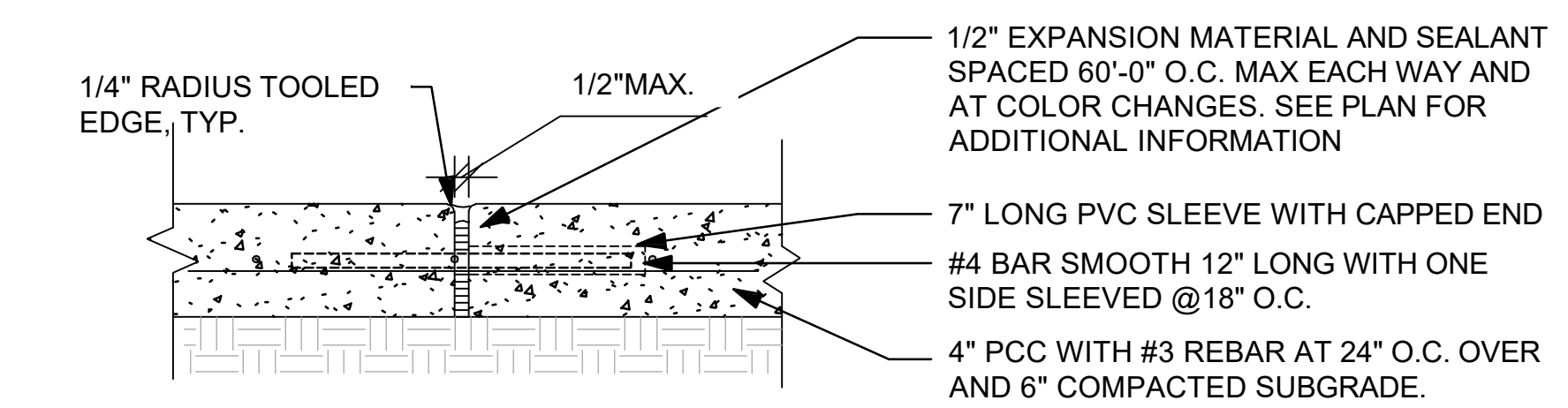
B SEWER/STORM DRAIN CLEANOUT
 C4.0 NO SCALE



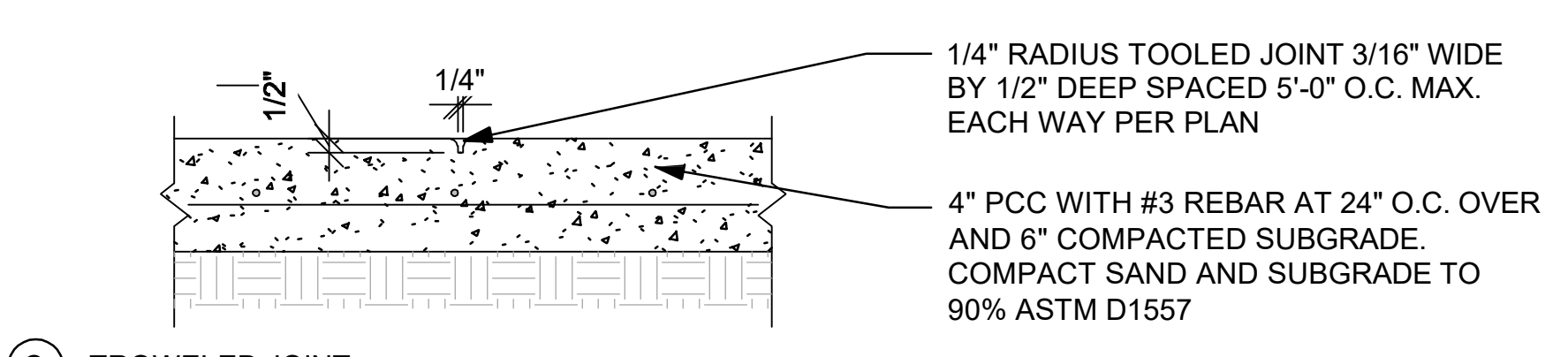
NOTES:
 1. ALL GRATES SHALL BE VANDAL PROOF IN TWO PLACES
 2. ALL GRATES IN PAVED AREAS SHALL COMPLY WITH CURRENT ADA SPECIFICATIONS
 3. ALL NON-BRASS GRATES SHALL BE GALVANIZED.



A CONTROL JOINT OR WEAKENED PLAN JOINT (WPJ)
 TO BE PROVIDED AT 5' O.C. UNLESS OTHERWISE SPECIFIED



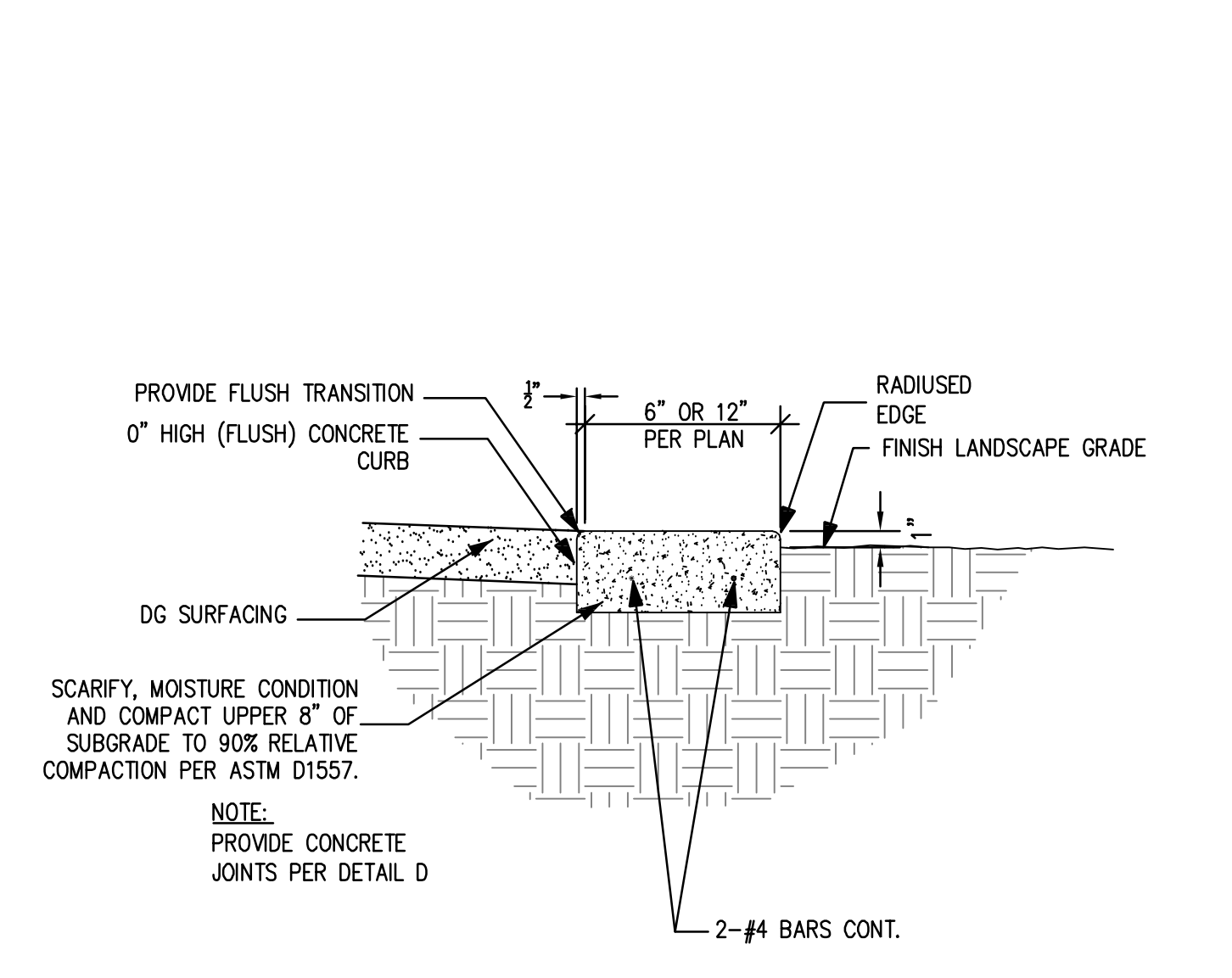
B EXPANSION JOINT
 TO BE PROVIDED AT 20' O.C. IN PLACE OF TROWELED JOINT



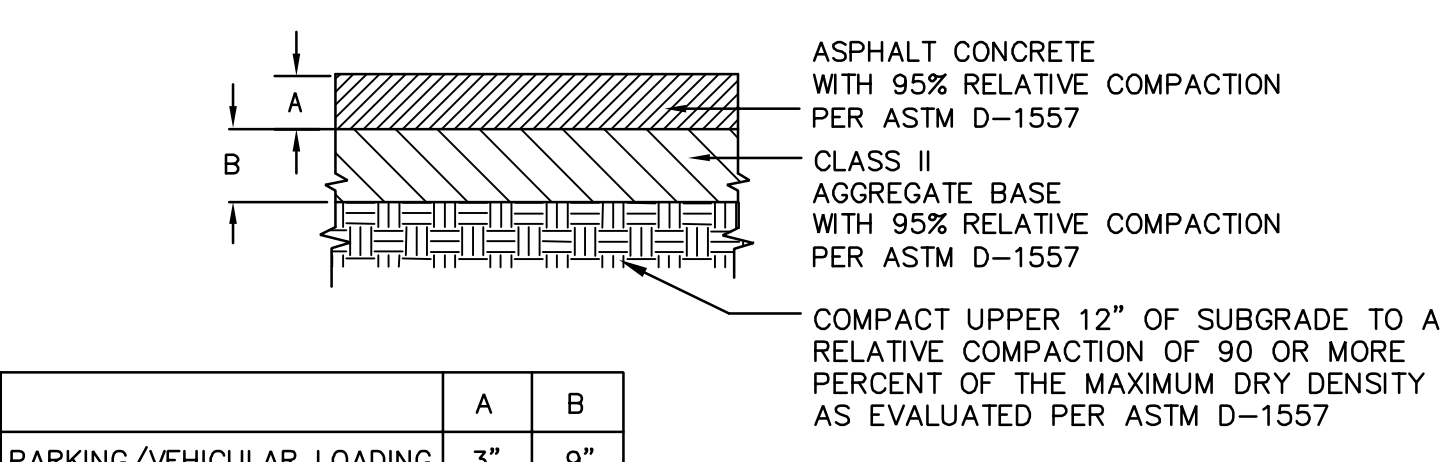
C TROWELED JOINT

NOTES:
 1) CONCRETE SHALL BE AT LEAST AS SLIP RESISTANT AS A MEDIUM BROOM FINISH
 2) REFER TO ARCHITECTURAL PLANS A10.1 FOR EDGE CONDITION DETAILS FOR CONCRETE FLATWORK
 3) REFER TO PROJECT SOILS REPORT BY NINYO AND MOORE FOR OVEREXCAVATION REQUIRED FOR ALL ON-SITE PAVING. CONTRACTOR IS REQUIRED TO COMPLY WITH ALL OVEREXCAVATION REQUIREMENTS AS SPECIFIED.

D CONCRETE WALKWAY AND JOINTS
 C4.0 NO SCALE



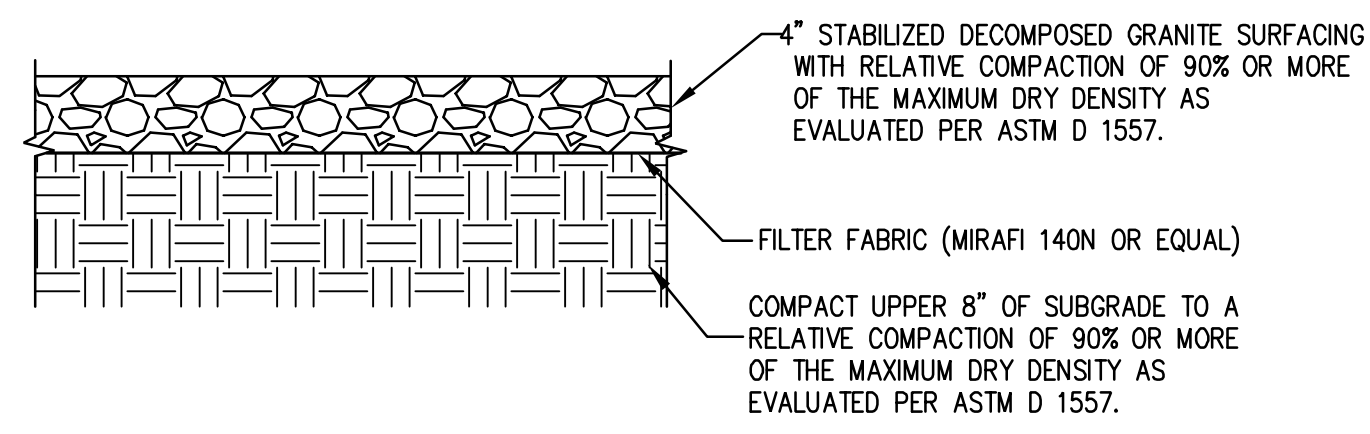
M 0" MOW CURB
 C4.0 SCALE: NTS



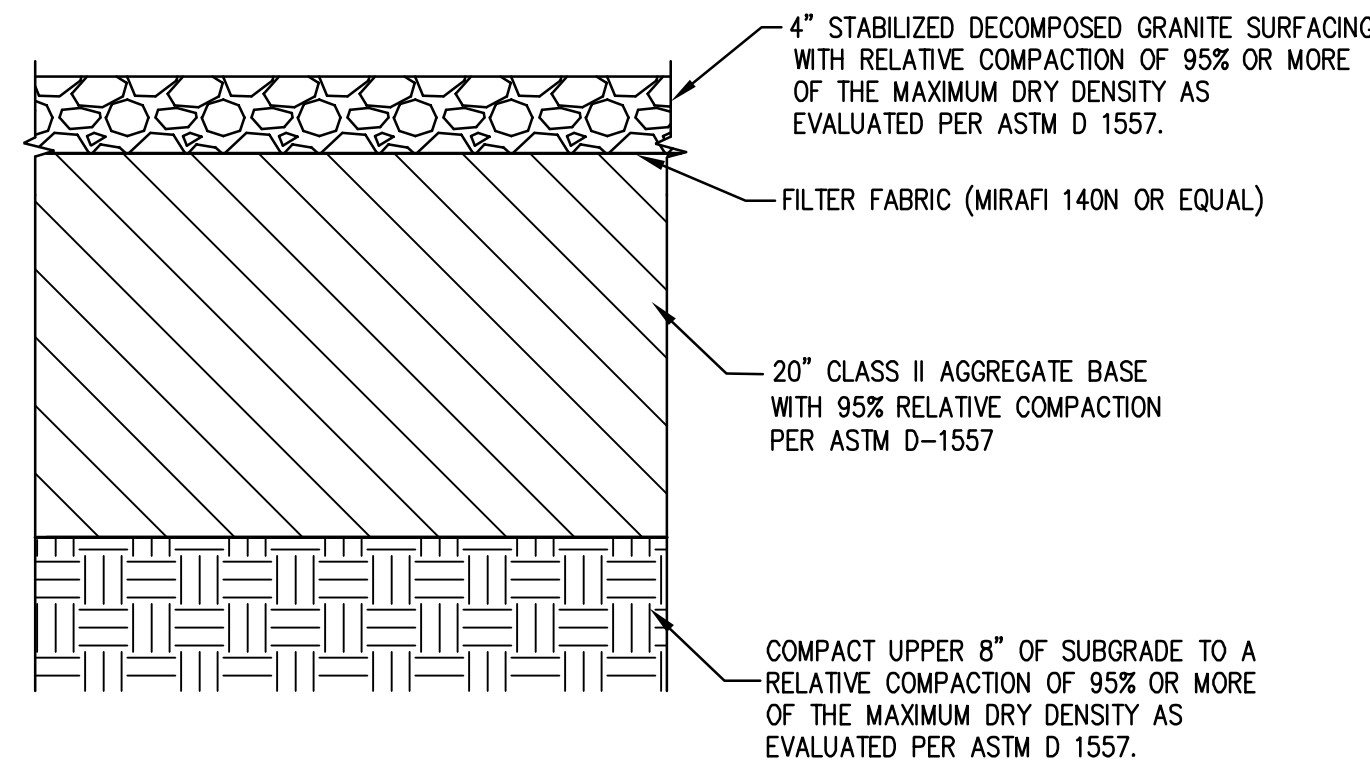
	A	B
PARKING/VEHICULAR LOADING	3"	9"
DRIVE AISLES	4"	11"
FIRE LANES	4"	13"

NOTE: REFER TO PROJECT SOILS REPORT BY NINYO AND MOORE FOR ADDITIONAL PAVEMENT REQUIREMENTS INCLUDING SECTION 9.1.8 FOR OVEREXCAVATION REQUIREMENTS.

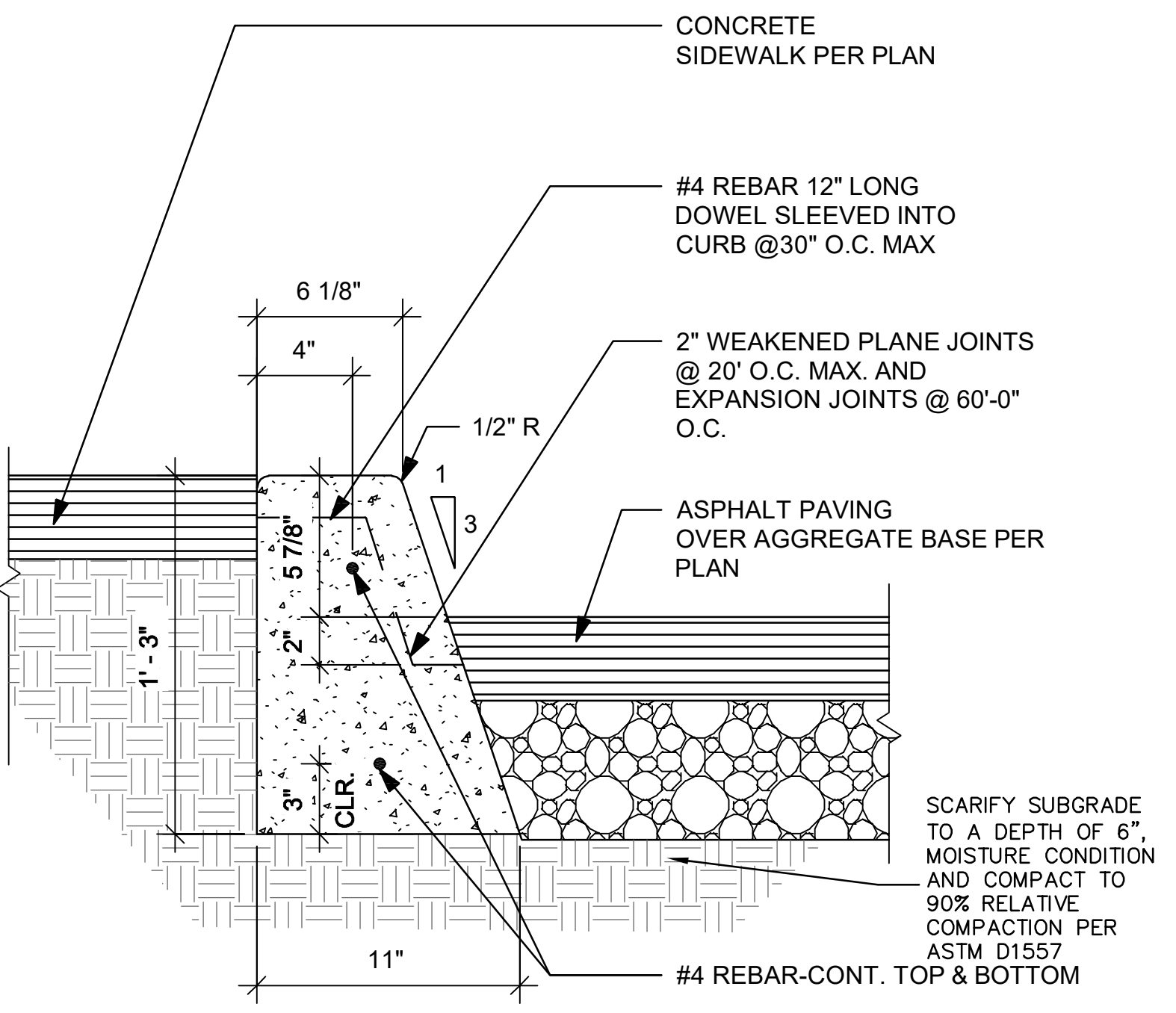
F ASPHALT CONCRETE PAVEMENT
 C4.0 NO SCALE



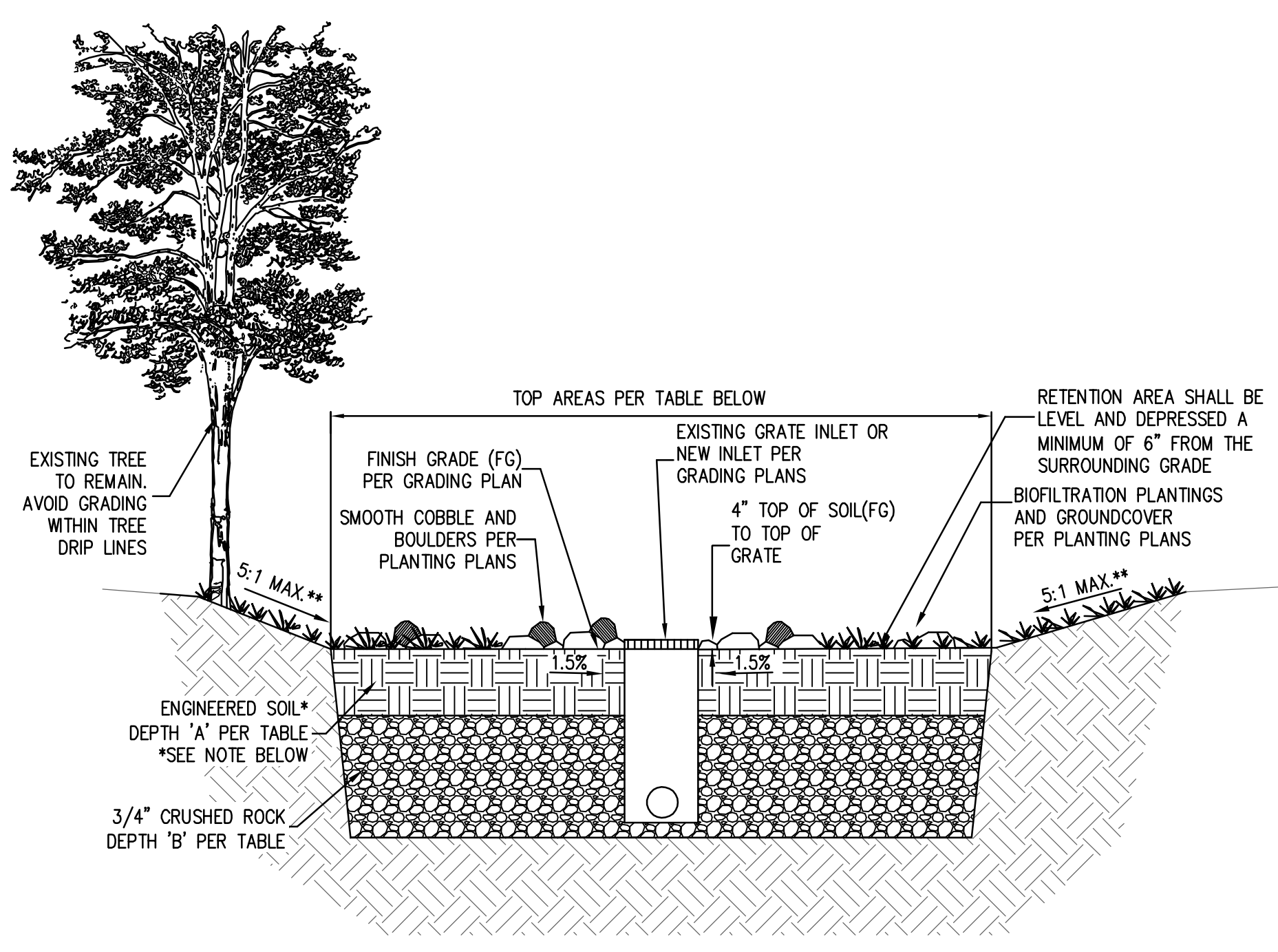
H PEDESTRIAN STABILIZED DECOMPOSED GRANITE SURFACING
 C4.0 SCALE: NTS



I FIRE LANE STABILIZED DECOMPOSED GRANITE SURFACING
 C4.0 SCALE: NTS



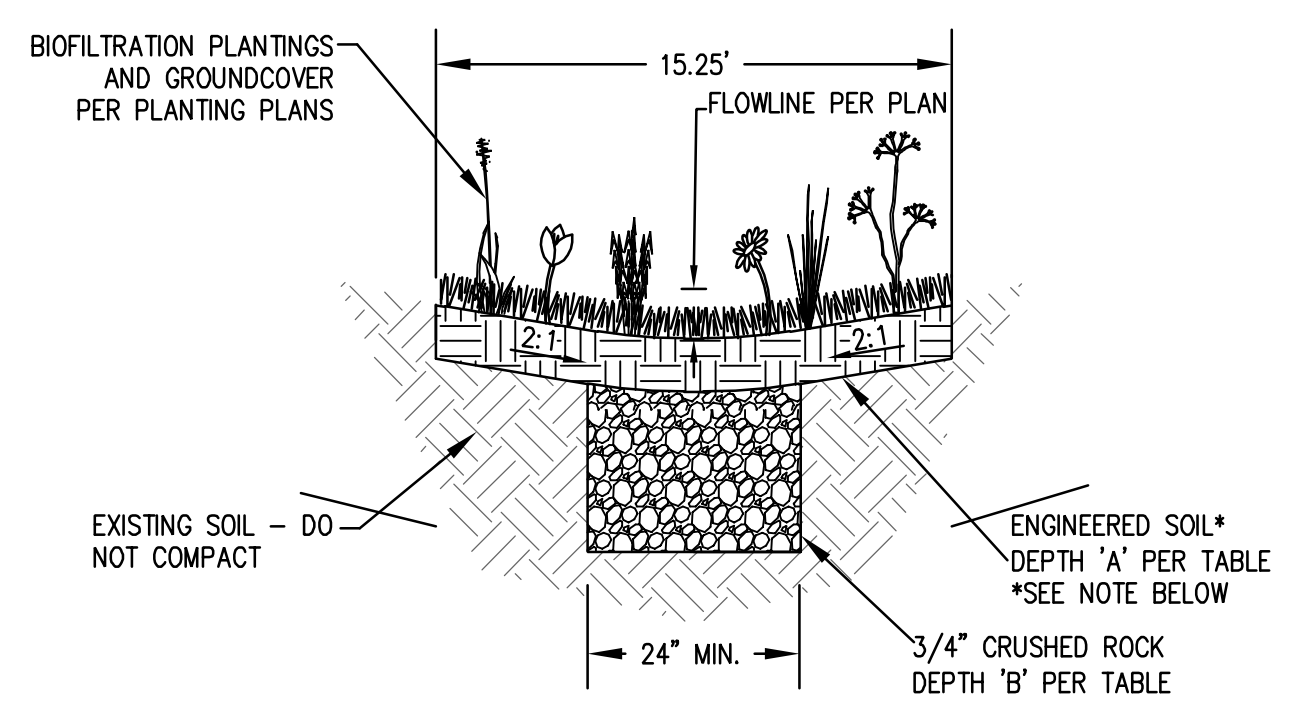
G CONCRETE CURB
 C4.0 SCALE: 1"=0.5'



DIMENSIONS	A (MIN.)	B	TOP AREA	VOLUME
AREA 1	8"	12"	650 SF	1083 CF

*BIORETENTION ENGINEERED SOIL LAYER SHALL BE MINIMUM 6" DEEP "SANDY LOAM" SOIL MIX WITH NO MORE THAN 5% CLAY CONTENT. THE MIX SHALL CONTAIN 50-60% SAND, 20-30% COMPOST OR HARDWOOD MULCH, AND 20-30% TOPSOIL.

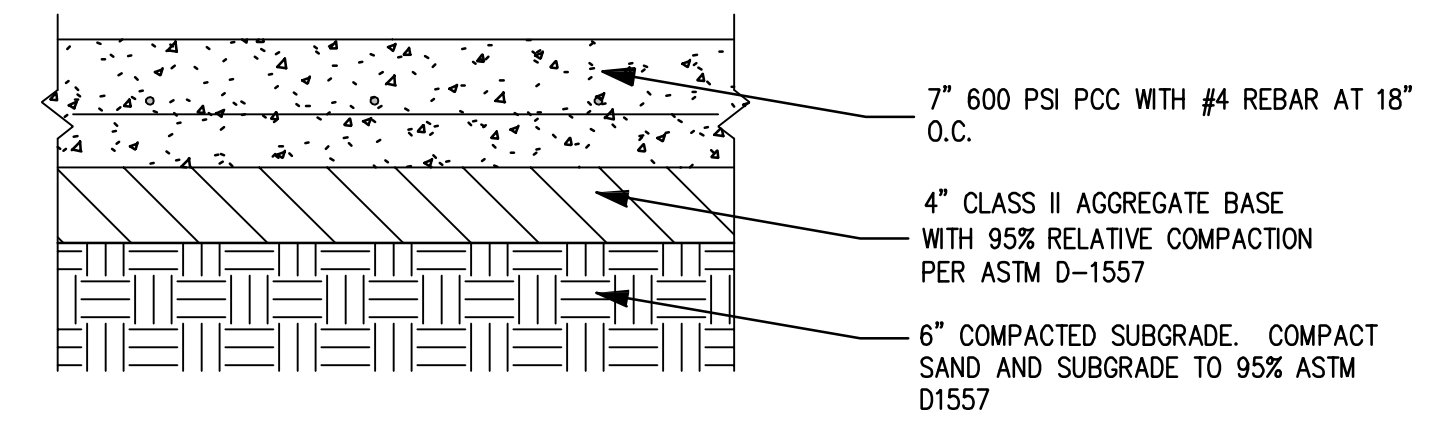
K BIOFILTRATION AREA #1
 C4.0 SCALE: NTS



DIMENSIONS	A	B	TOP AREA	VOLUME
AREA 2	8"	12"	500 SF	833 CF

*BIORETENTION ENGINEERED SOIL LAYER SHALL BE MINIMUM 6" DEEP "SANDY LOAM" SOIL MIX WITH NO MORE THAN 5% CLAY CONTENT. THE MIX SHALL CONTAIN 50-60% SAND, 20-30% COMPOST OR HARDWOOD MULCH, AND 20-30% TOPSOIL.

L BIOFILTRATION AREA #2
 C4.0 SCALE: NTS



M FIRE LANE CONCRETE PAVING
 C4.0 SCALE: NTS

Revision _____ Date _____

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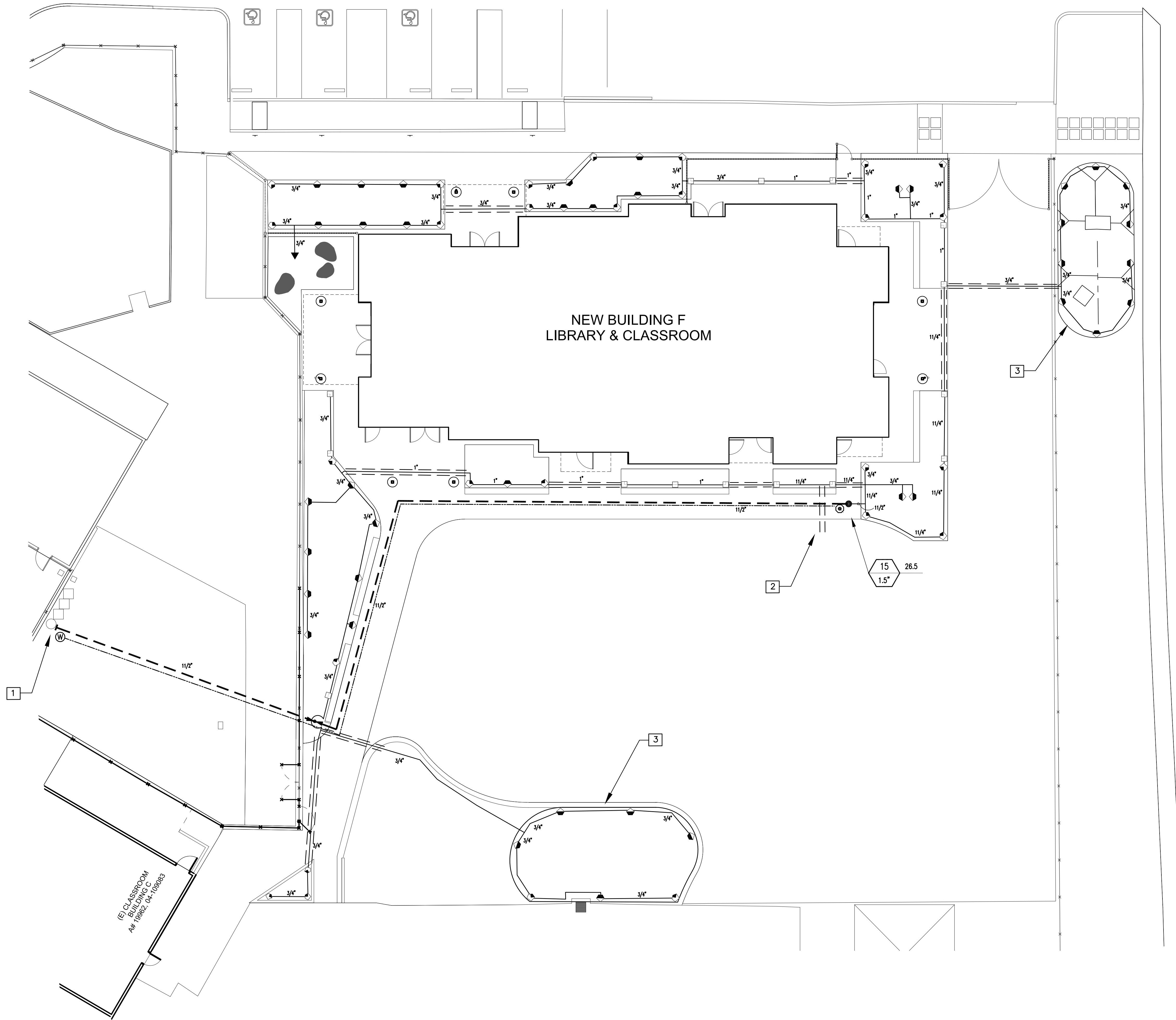
LICENSED ARCHITECT
 STATE OF CALIFORNIA
 C-28036
 EXPIRES 31.31.2014

PROSPECT AVENUE ELEMENTARY
 SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

IRRIGATION PLAN

Drawn:
 Author:
 Checked:
 Checker:
 Date:
 AUGUST 27, 2019
 Job:
 SSD-PA-03

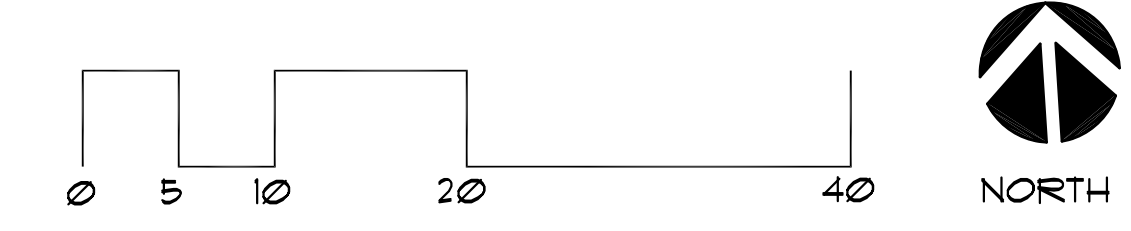
LI-1.0



GENERAL IRRIGATION NOTES

- 1 IRRIGATION POINT OF CONNECTION. INSTALL NEW MAINLINE DOWNSTREAM OF EXISTING VALVE CLUSTER. CONNECT TO EXISTING SPARE REMOTE CONTROL WIRE IN VALVE BOX 14. REROUTE EXISTING WIRE AND COMMON WIRE IN WIRE SPLICE BOX. RUN NEW RCV WIRE AND COMMON WIRE IN TRENCH ALONG SIDE PROPOSED MAINLINE TO END OF MAINLINE RUN. CONTRACTOR SHALL VERIFY WATER PRESSURE AT POINT OF CONNECTION PRIOR TO CONNECTING NEW LINE. WATER PRESSURE REQUIRED AT THE POINT OF CONNECTION IS 65 PSI. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE IF PRESSURE IS NOT ADEQUATE.
- 2 PROVIDE 2" PVC SLEEVE FROM PROPOSED PLANTING AREA SOUTHWARD BENEATH PROPOSED PAVEMENT. THIS SLEEVE IS FOR FUTURE IRRIGATION SYSTEM SOUTH OF NEW BUILDING.
- 3 PROPOSED BIOFILTRATION BASIN. INSTALL ROTATOR HEADS AT PERIMETER EDGE OF BASIN(S) AND AT TOP OF SLOPING AREA WHERE APPLICABLE.

SEE SHEETS LI-2 AND LI-3 FOR IRRIGATION LEGEND, NOTES AND DETAILS.



LANDSCAPE IRRIGATION WATER BUDGET (FOR NEW LANDSCAPE AREAS ONLY)
 (based on MWEL0)

PROJECT: Prospect Avenue Elementary School
 Santee School District
 Santee, California

Project ETo: 51.10

MAXIMUM APPLIED WATER ALLOWANCE:
 (GALLONS PER YEAR)

$MAWA = (ETo) \times (.62) \times [(.65)(LA) + (.35)(SLA)]$
 $51.10 \times 0.62 \times 2,441 = 77,328 \text{ Gal/yr.}$
 Hundred Cu. Ft. / Yr. (divide by 748) = 103 CCF/yr.

ESTIMATED APPLIED WATER USED:
 (GALLONS PER YEAR)

$ETWU = (ETo) \times (.62) \times [(Plant\ Factor)(Hydrozone\ Sq.\ Ft.) + SLA]$
 Irrigation Efficiency

HYDROZONE # 1: (Shrub Areas - Spray)
 $51.10 \times 0.62 \times 0.45 \times 3,755 / 0.70 = 76,478 \text{ Gal/yr.}$

MAXIMUM APPLIED WATER ALLOWANCE: 77,328 Gal/yr.

TOTAL ESTIMATED WATER USE: 76,478 Gal/yr.
 102 CCF/yr.

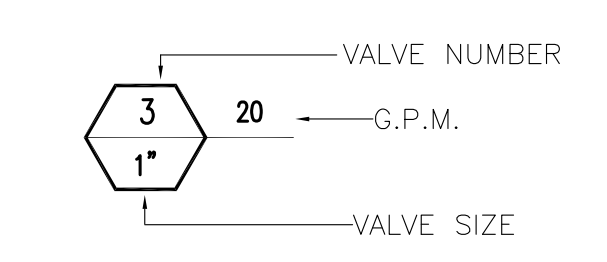
Water Conservation Note: This is a new construction project. New landscape areas consist of shredded mulch and shrub plantings. New plantings consist of drought tolerant species. Shrubs and mulch are use in lieu of living groundcovers. Irrigation system consists of low volume spray heads.

WATER PRESSURE CALCULATIONS			
WATER METER NUMBER	N/A	WATER METER SIZE	N/A
HYDRAULIC GRADE LINE (FT)	N/A	WATER METER ELEVATION (FT)	N/A
ELEVATION DIFFERENCE (FT)	N/A	STATIC PRESSURE (PSI)	65.0
REMOTE CONTROL VALVE #	15	REMOTE CONTROL VALVE SIZE	1.5"
R.C.V. DEMAND (GPM)	25.8	TOTAL DEMAND (GPM)	25.8
HIGHEST HEAD SERVED (FT)	N/A	STATIC PRESSURE AT HIGHEST HEAD	65.0
SIZE	DESCRIPTION	FLOW	# PSI LOSS
N/A	WATER METER	N/A	1 N/A PSI
N/A	BACKFLOW PREVENTER	N/A	2 N/A PSI
N/A	MASTER VALVE	N/A	3 N/A PSI
N/A	FLOW SENSOR	N/A	4 N/A PSI
N/A	GATE VALVES	N/A	5 N/A PSI
1.5"	BALL VALVE	25.8	6 1.5 PSI
1.5"	200 FEET OF MAINLINE	25.8	7 4.8 PSI
1.5"	REMOTE CONTROL VALVE	25.8	9 3.0 PSI
10%	LATERAL LINE LOSS	25.8	10 4.0 PSI
20%	FITTING LOSS	25.8	11 1.0 PSI
N/A	ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	N/A	12 N/A PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #12)		13	14.3 PSI
PRESSURE REQUIRED AT HEAD		14	40.0 PSI
TOTAL RESIDUAL PRESSURE REQUIRED (SUM OF #13 AND #14)		15	54.3 PSI
STATIC WATER PRESSURE (DISTRICT PROVIDED)		16	65.0 PSI
EXCESS PRESSURE (SUBTRACT #15 FROM #16)		17	10.7 PSI
SET PRV OR MCV AT (#15 PLUS 15 PSI)		18	N/A PSI
PRESSURE BOOST, IF REQUIRED (SET TO ACHIEVE 20 PSI ADDITIONAL)		19	N/A PSI

IRRIGATION NOTES

- ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE DRAWINGS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE STARTING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT'S REPRESENTATIVE.
- THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DISTRICT'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE DISTRICT.
- ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVEING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVEING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
- ALL QUICK COUPLER AND REMOTE CONTROL VALVES SHALL BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18' OF HARDSCAPE.
- THE CONTRACTOR SHALL COORDINATE WITH THE DISTRICT REPRESENTATIVE FOR PROGRAMMING THE NEW IRRIGATION VALVE FOR TIMING, LENGTH OF RUN AND STATION NUMBERING. CONTRACTOR SHALL HAVE ACCESS TO THE CONTROLLER FOR MAKING ADJUSTMENTS TO THE NEW SYSTEM PROGRAMMING.

IRRIGATION MATERIAL LEGEND							
SYMBOL	MANUFACT.	MODEL NO. / DESCRIPTION	GPM	PSI	RADIUS	DETAIL	
	HUNTER	MP1000-90 PROS-6 PRS40-CV WITH ADJUSTABLE ARCS Q/H	.21, .42		40 8-15 FT	B/LI-3	
	HUNTER	MPLCS515/MPCRS515-90 PROS-6 PRS40-CV WITH QUARTER SPRAY	.22		40 5X15 FT	B/LI-3	
	HUNTER	MPSS530-90 PROS-6 PRS40-CV WITH HALF SPRAY	.44		40 5X30 FT	B/LI-3	
	RAINBIRD	RWS-B-C-1402 W/SOCK AND GRATE	.50 (1.0)		30 N/A	C/LI-3	
	RAINBIRD	EACH SYMBOL REPRESENTS TWO BUBBLERS					
	NIBCO	T-FP-600A FULL PORT BRASS BALL VALVE - 1.5" SIZE - INSTALL WITH HANDLE ON SIDE				E/LI-3	
	RAINBIRD	33DRC, 3/4" QUICK COUPLER VALVE INSTALLED WITHIN 10" ROUND VALVE BOX. PROVIDE VALVE KEY AND SH SERIES HOSE SWIVEL. INSTALL WITH LASCO G13T-212 STABILIZER ASSEMBLY.				F/LI-3	
	RAINBIRD	SERIES EFB -CP-PRS-D REMOTE CONTROL VALVE - 1.5" SIZE INSTALL WITH A NIBCO T-FP-600A FULL PORT BRASS BALL VALVE, STEM AND HANDLE DIRECTLY BEFORE EACH REMOTE CONTROL VALVE SAME SIZE AS VALVE.				H/LI-3	
	PACIFIC PLASTICS	PVC PIPE 3/4" - 1-1/2" SCH. 40 AS LATERAL LINES 18" BELOW GRADE WITH SCHEDULE 40 FITTINGS.				D/LI-3	
	PACIFIC PLASTICS	PVC PIPE 1.5" SCHEDULE 40 SOLVENT WELD AS MAINLINE 24" BELOW GRADE WITH SCHEDULE 80 FITTINGS.				D/LI-3	
	PACIFIC PLASTICS	PVC PIPE SCH. 40 AS SLEEVEING, 2 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED PLACE BELOW ALL PAVING, HARDSCAPE, ETC., AND AS DIRECTED BY DISTRICT REPRESENTATIVE.				A/LI-3	
NO SYMBOL	AS APPROVED	IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED) ALL CONTROLLER WIRING SHALL BE COLOR CODED AND LABELED TO MATCH CORRESPONDING VALVE STATION NUMBER				A,D/LI-3	
	CARSON	REMOTE CONTROL WIRE SPLICE BOX - 16"X10" GREEN PLASTIC VALVE BOX.				N/A	
	PROPOSED	1" CONDUIT BETWEEN POV AND NEW REMOTE CONTROL VALVE TO HOUSE REMOTE CONTROL WIRES.				N/A	
NO SYMBOL	3M	DBYR-6 DIRECT BURIAL WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS (U.L. APPROVED).				G/LI-3	
NO SYMBOL	CARSON	VALVE BOXES, SIZE PER EQUIPMENT LEGEND, WITH T-COVER LIDS AND CAPTIVE BOLT AND LOC-KIT. 10" ROUND SHALL BE MODEL 910, 12" STANDARD RECTANGULAR. SHALL BE MODEL 1419.				E,F,H/LI-3	



SEE SHEET LI-3 FOR IRRIGATION DETAILS.

Revision _____ Date _____

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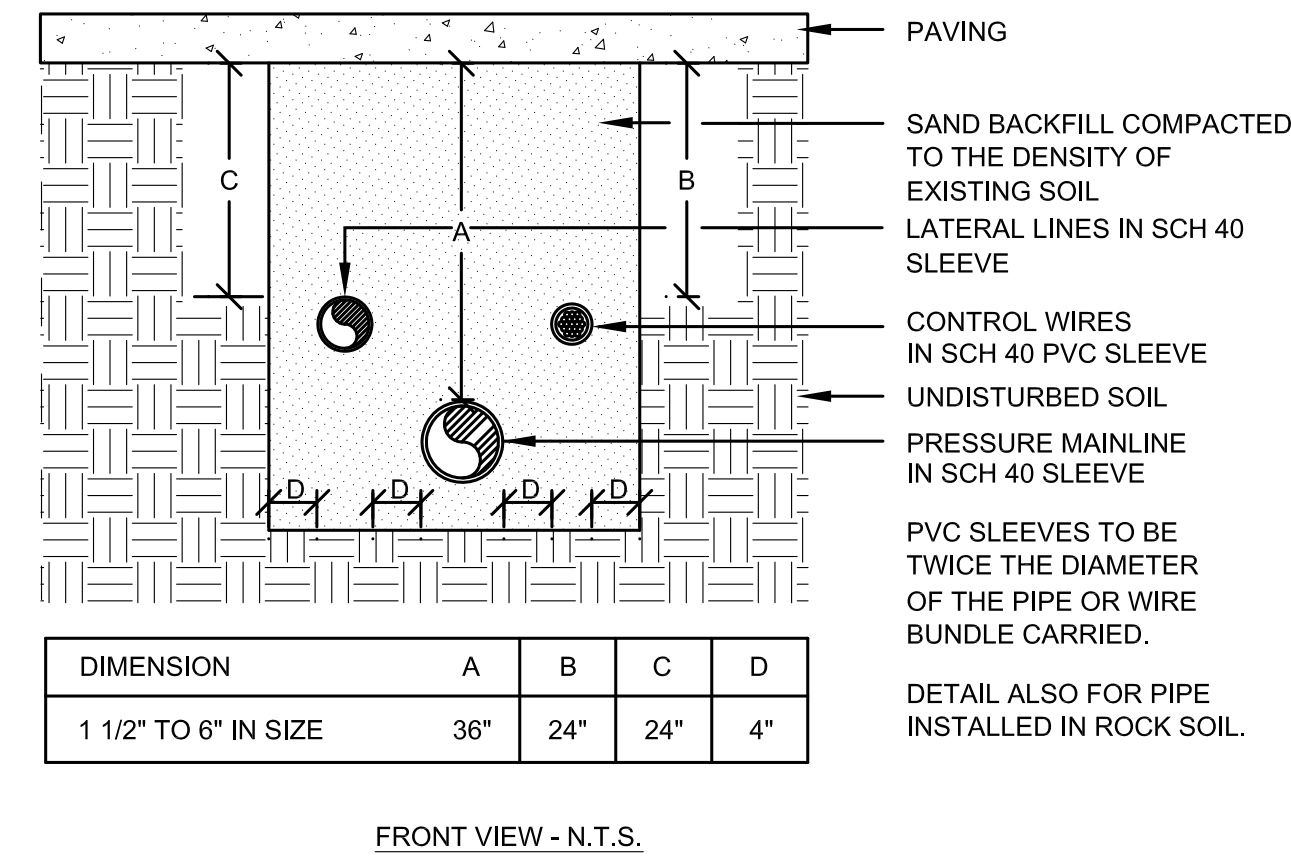
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PROSPECT AVENUE ELEMENTARY SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

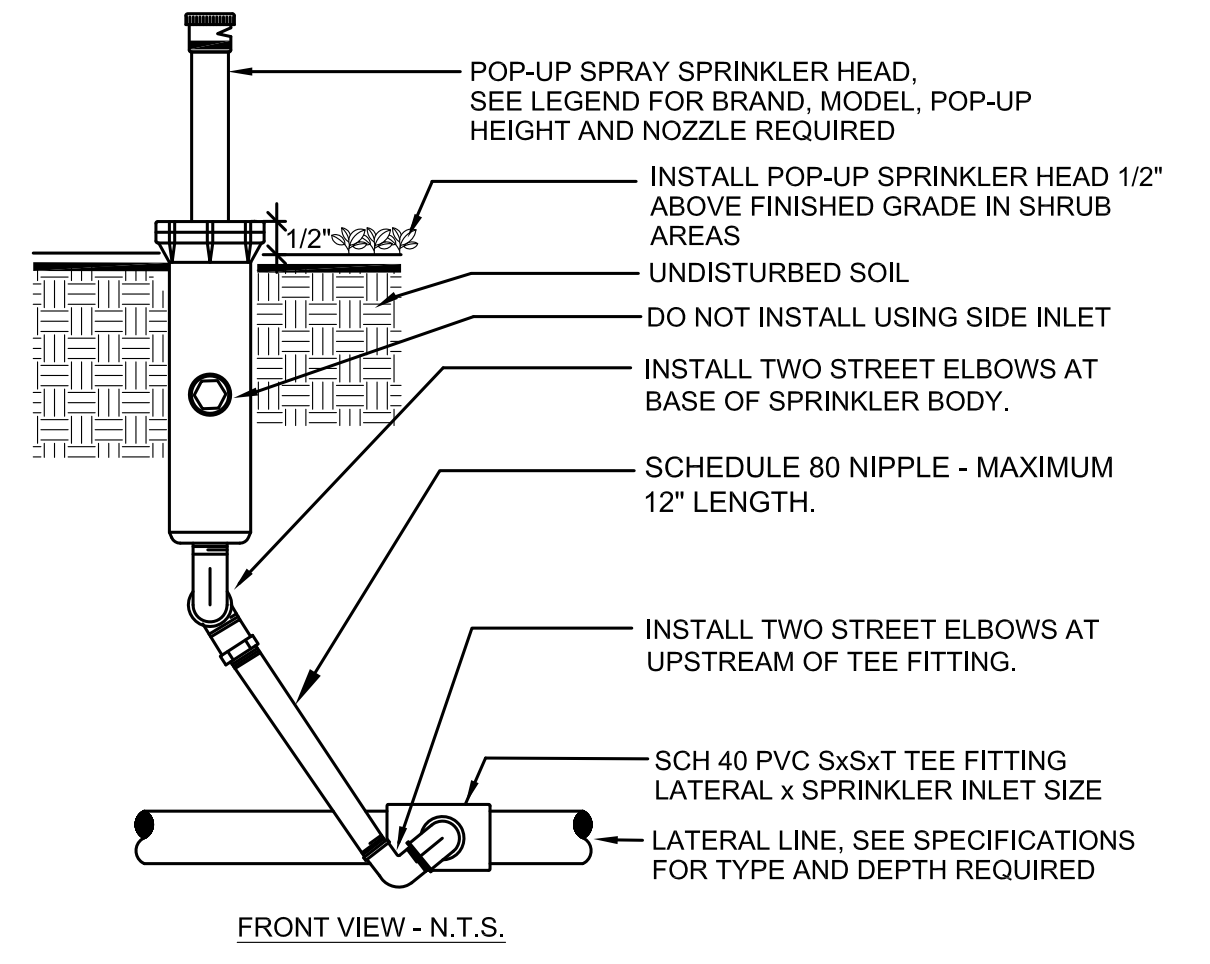
IRRIGATION LEGEND AND NOTES

Drawn: _____
 Author: _____
 Checked: _____
 Checker: _____
 Date: AUGUST 27, 2019
 Job: SSD-PA-03

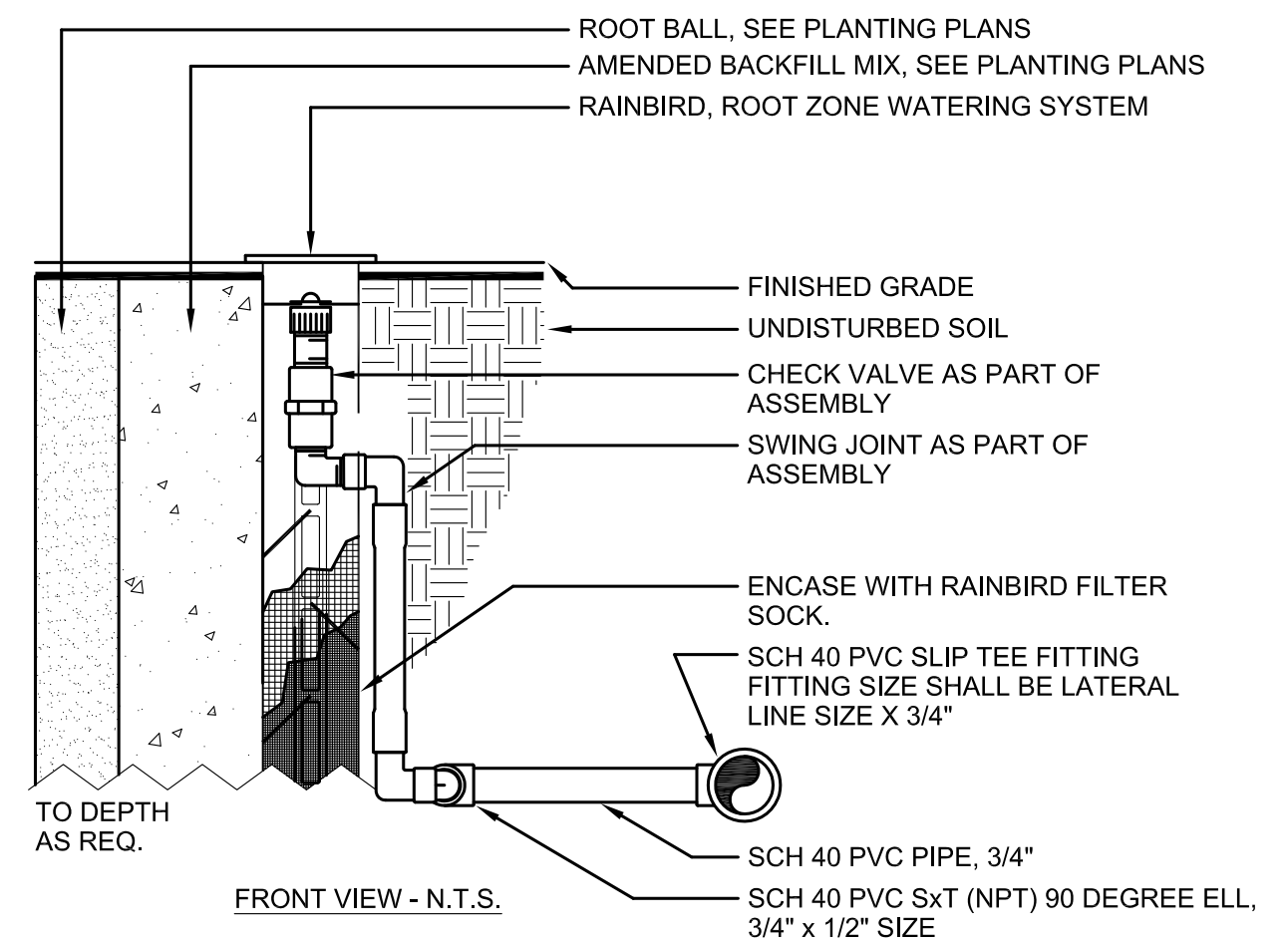
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FRONT VIEW - N.T.S.



FRONT VIEW - N.T.S.

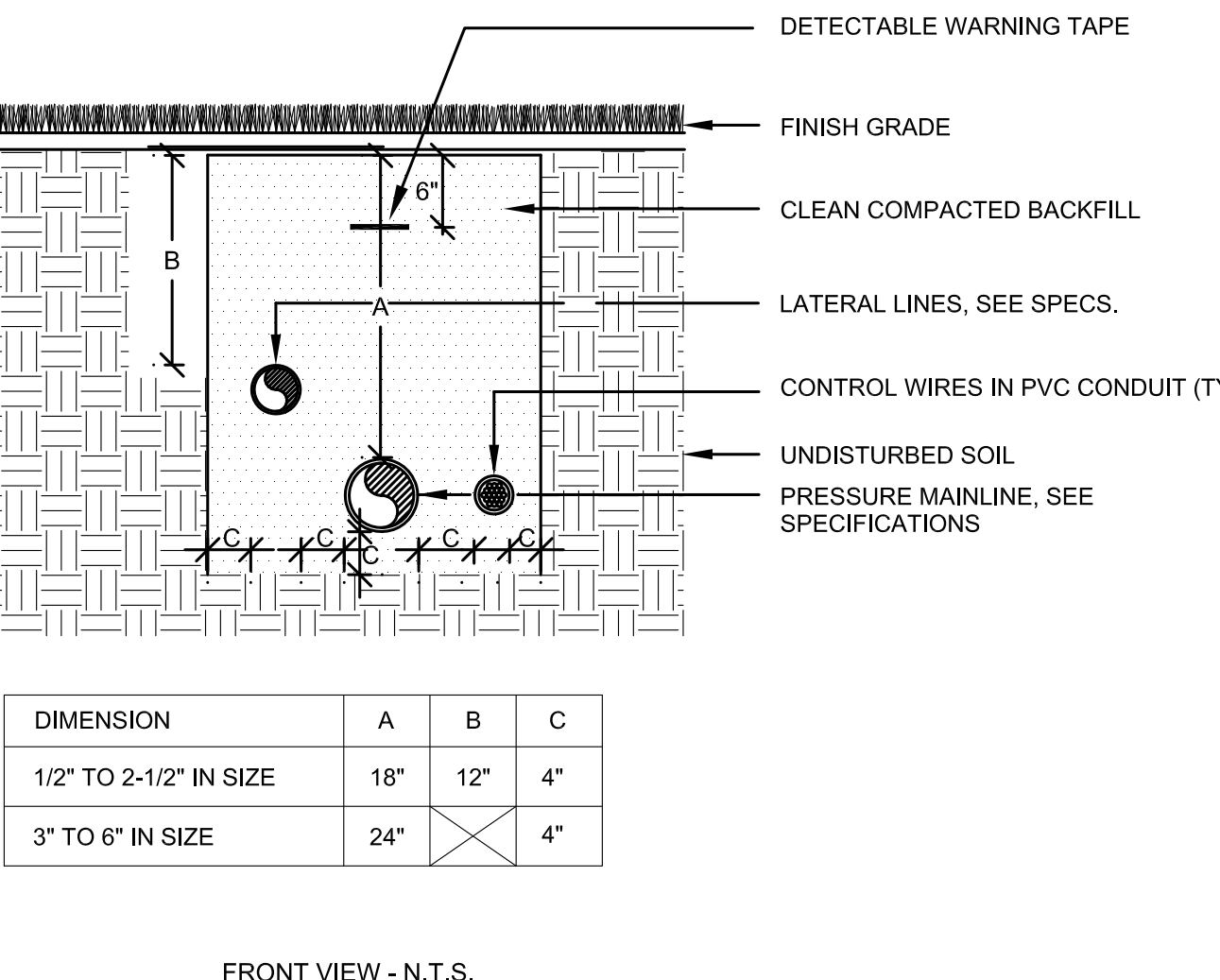


FRONT VIEW - N.T.S.

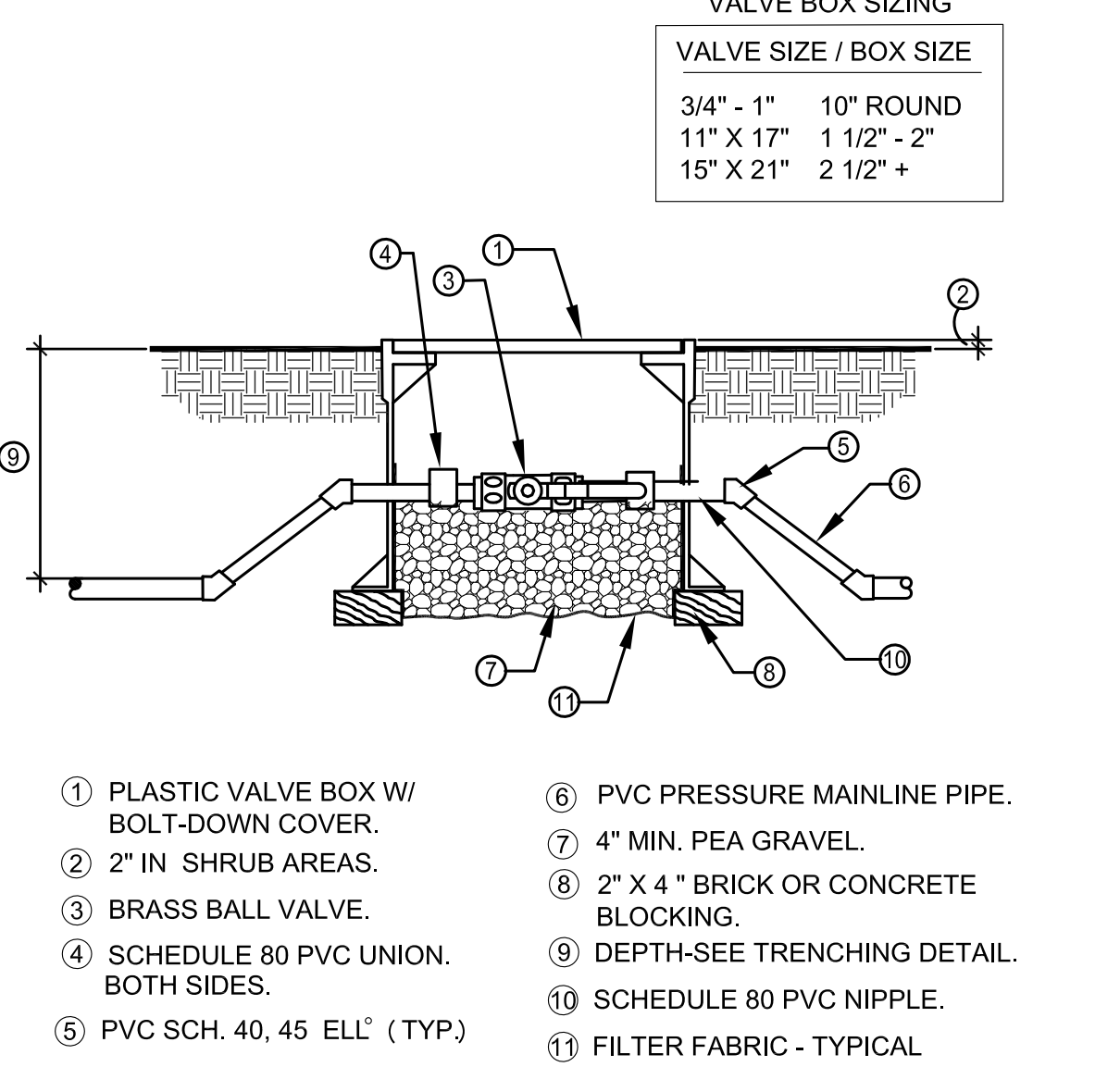
(A) SLEEVE INSTALLATION

(B) POP-UP SPRINKLER

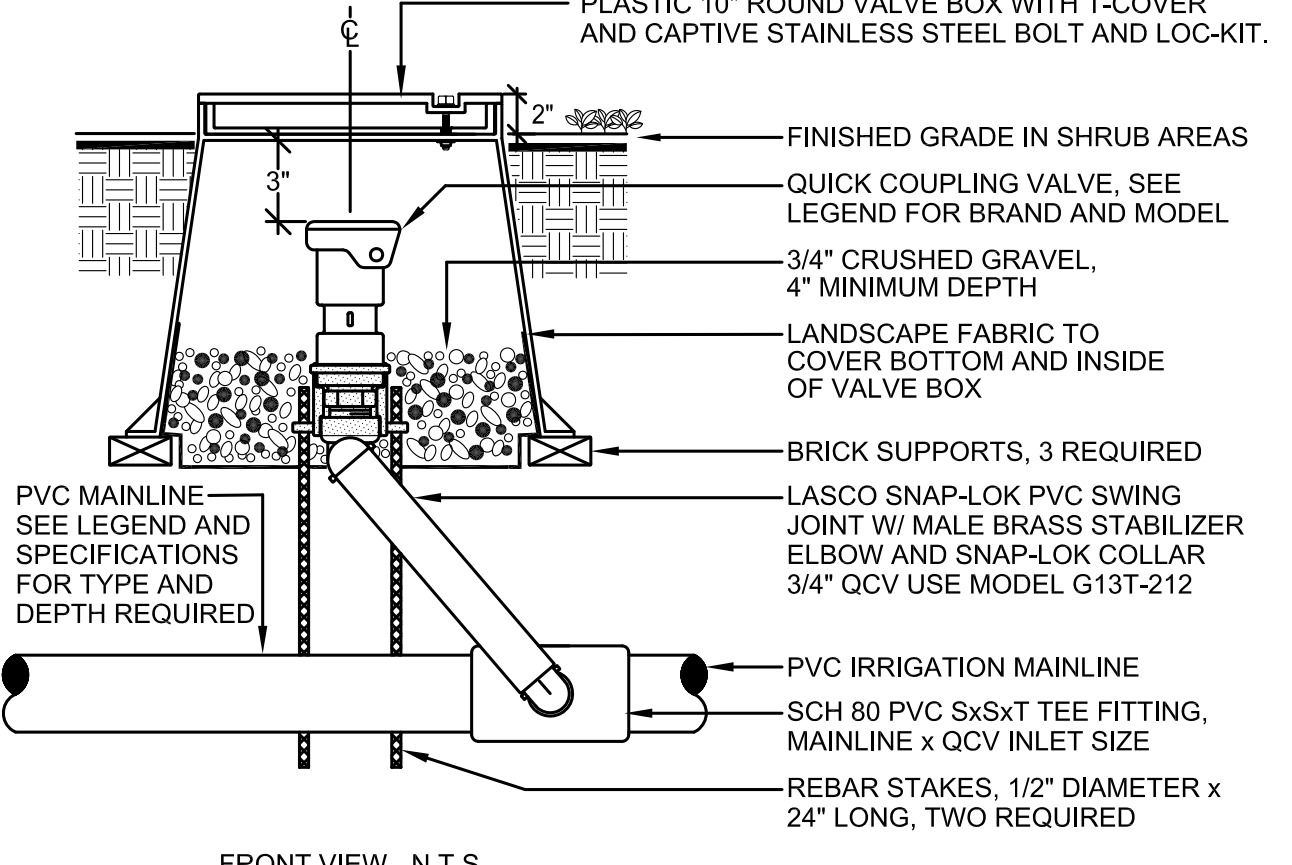
(C) DEEP WELL BUBBLER



FRONT VIEW - N.T.S.



FRONT VIEW - N.T.S.

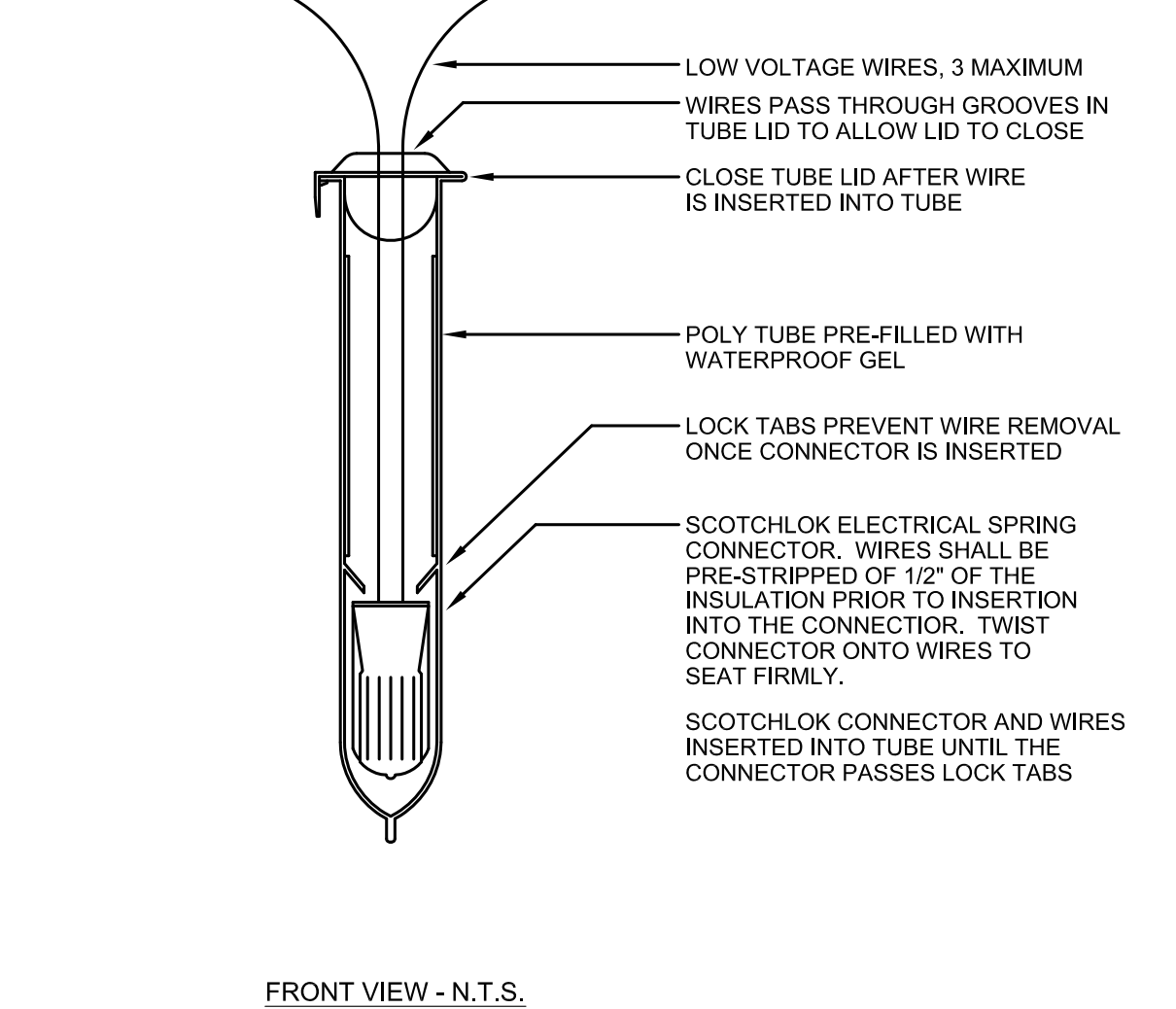


FRONT VIEW - N.T.S.

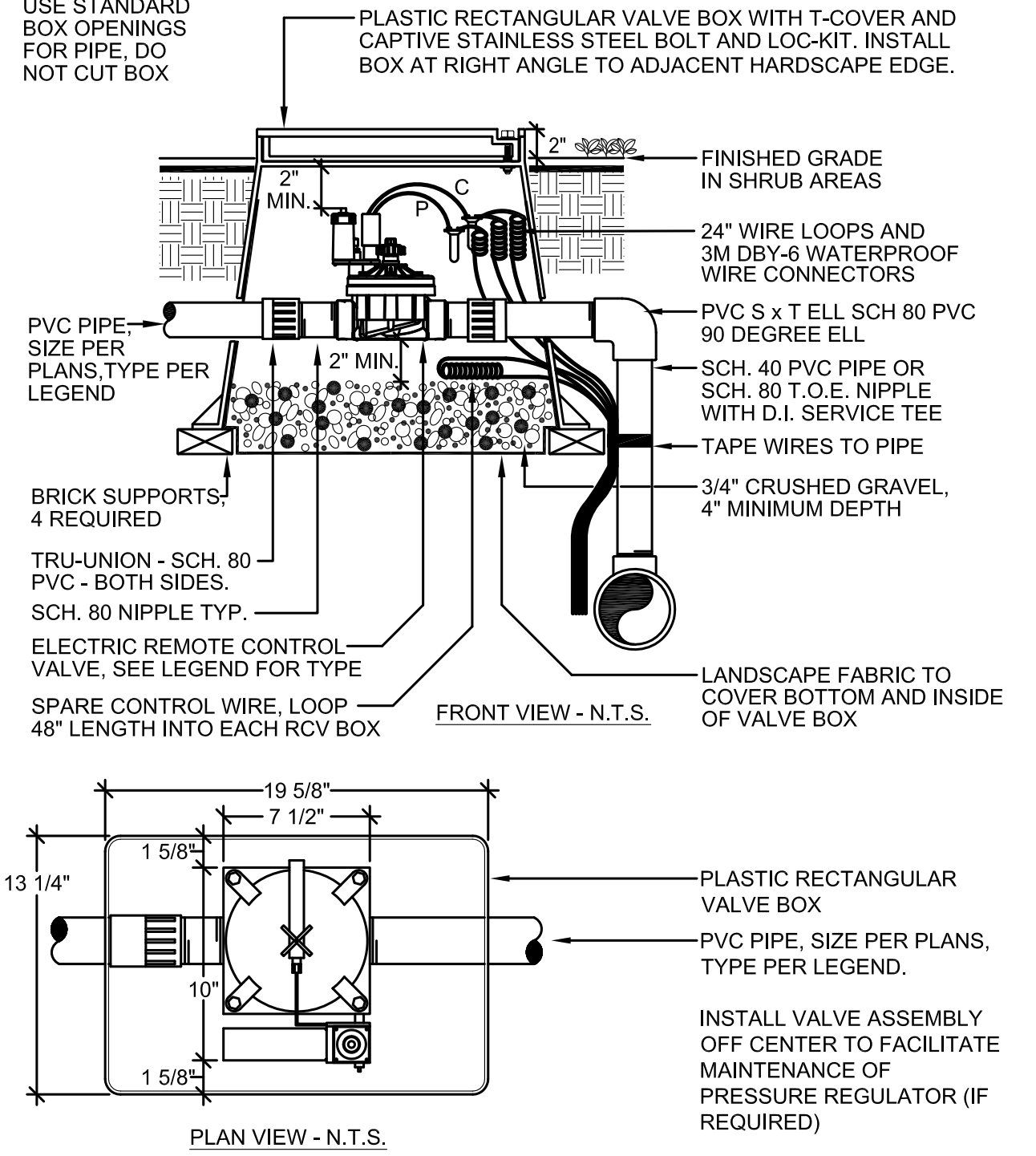
(D) TRENCHING DETAIL

(E) BALL VALVE

(F) QUICK COUPLER VALVE



FRONT VIEW - N.T.S.



FRONT VIEW - N.T.S.

(D) TRENCHING DETAIL

(G) WIRE CONNECTION

(H) REMOTE CONTROL VALVE

Revision _____ Date _____

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 SANTEE SCHOOL DISTRICT

IRRIGATION DETAILS

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LI-3.0

Revision _____ Date _____

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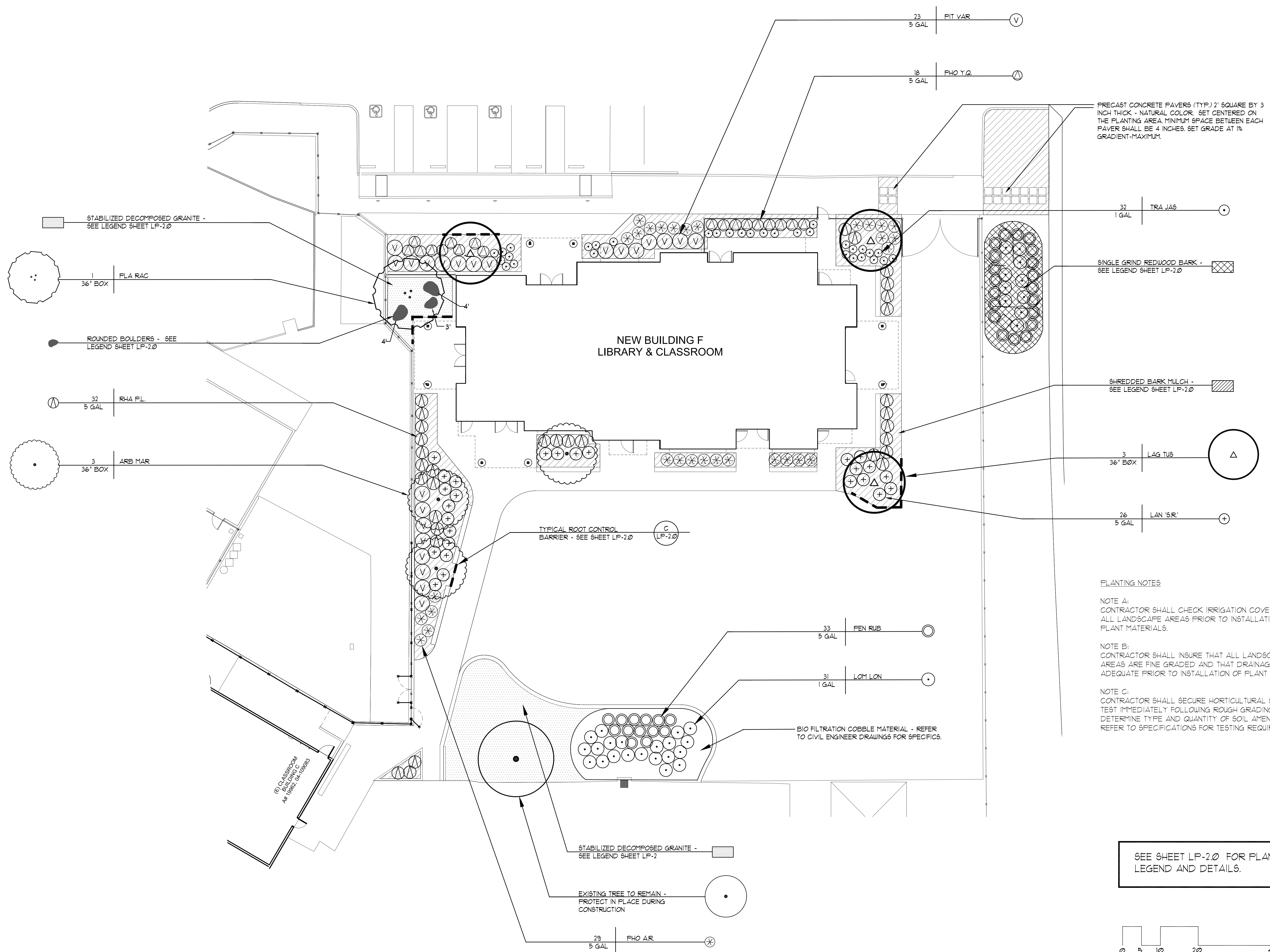
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 P.D. Webb
 C-28036
 EXPIRES 31.1.2014
 STATE OF CALIFORNIA

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LP-1.0



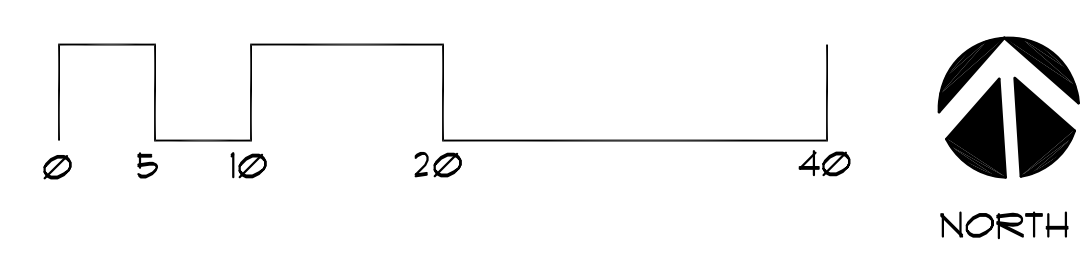
PLANTING NOTES

NOTE A:
 CONTRACTOR SHALL CHECK IRRIGATION COVERAGE IN ALL LANDSCAPE AREAS PRIOR TO INSTALLATION OF PLANT MATERIALS.

NOTE B:
 CONTRACTOR SHALL INSURE THAT ALL LANDSCAPE AREAS ARE FINE GRADED AND THAT DRAINAGE IS ADEQUATE PRIOR TO INSTALLATION OF PLANT MATERIAL.

NOTE C:
 CONTRACTOR SHALL SECURE HORTICULTURAL SOILS TEST IMMEDIATELY FOLLOWING ROUGH GRADING TO DETERMINE TYPE AND QUANTITY OF SOIL AMENDMENTS - REFER TO SPECIFICATIONS FOR TESTING REQUIREMENTS.

SEE SHEET LP-2.0 FOR PLANTING LEGEND AND DETAILS.

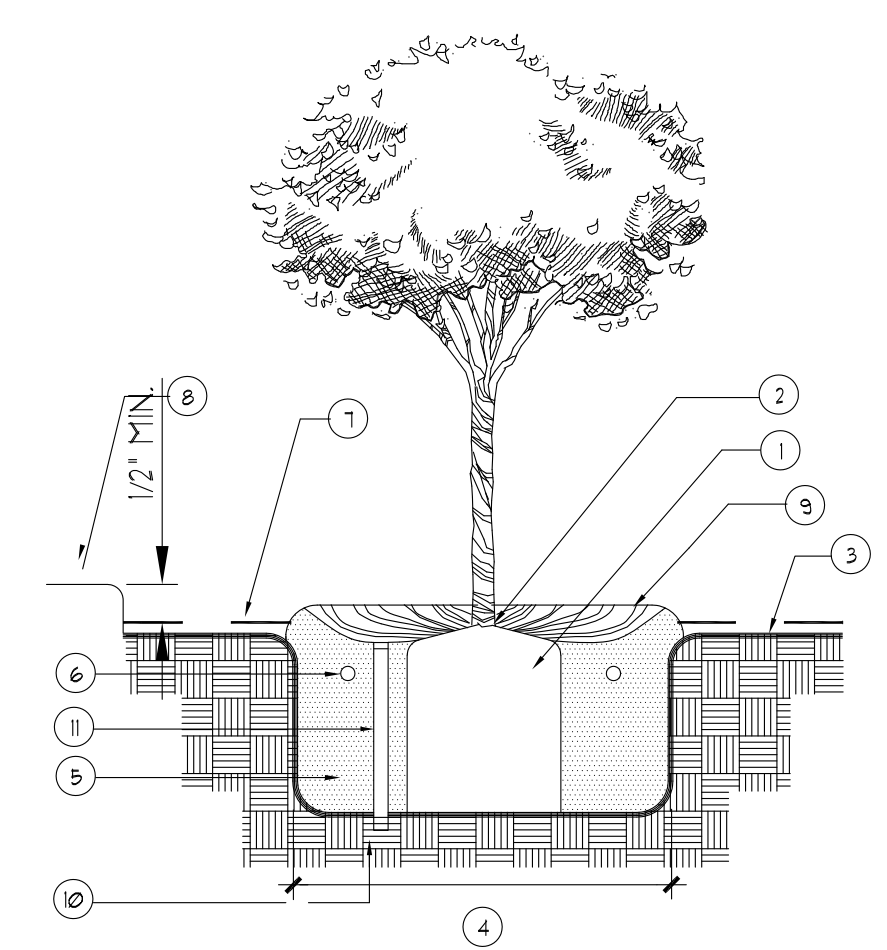


PLANT LEGEND

SYM.	ABR.	SCIENTIFIC NAME - COMMON NAME	SIZE	QTY.	REMARKS/	DETAILS	SYM.	ABR.	SCIENTIFIC NAME - COMMON NAME	SIZE	QTY.	REMARKS/	DETAILS
TREES							SHRUBS						
•	ARB MAR	ARBUS MARINA' - MARINA STRAWBERRY TREE	36' BOX	3	STANDARD	A/LP-2.0, B/LP-2.0	⊕	LAN 'S.R'	LANTANA 'SUNRISE YELLOW' - YELLOW TRAILING LANTANA	5 GAL	26	3' O.C.	D/LP-2.0
⊙	LAG MUS	LAGERSTROEMIA I. 'TUSCARORA' - RED CRAPE MYRTLE	36' BOX	3	STANDARD	A/LP-2.0, B/LP-2.0	⊙	LOM LON	LOMANDRA LONGIFOLIA - DWARF MAT RUSH	1 GAL	31	3' O.C.	D/LP-2.0
⊙	PLA RAC	PLATANUS RACEMOSA - CALIFORNIA SYCAMORE	36' BOX	1	STANDARD	A/LP-2.0, B/LP-2.0	⊙	FEN RUB	FENNISETUM 'RUBRUM' - RED FOUNTAIN GRASS	5 GAL	33	3' O.C.	D/LP-2.0

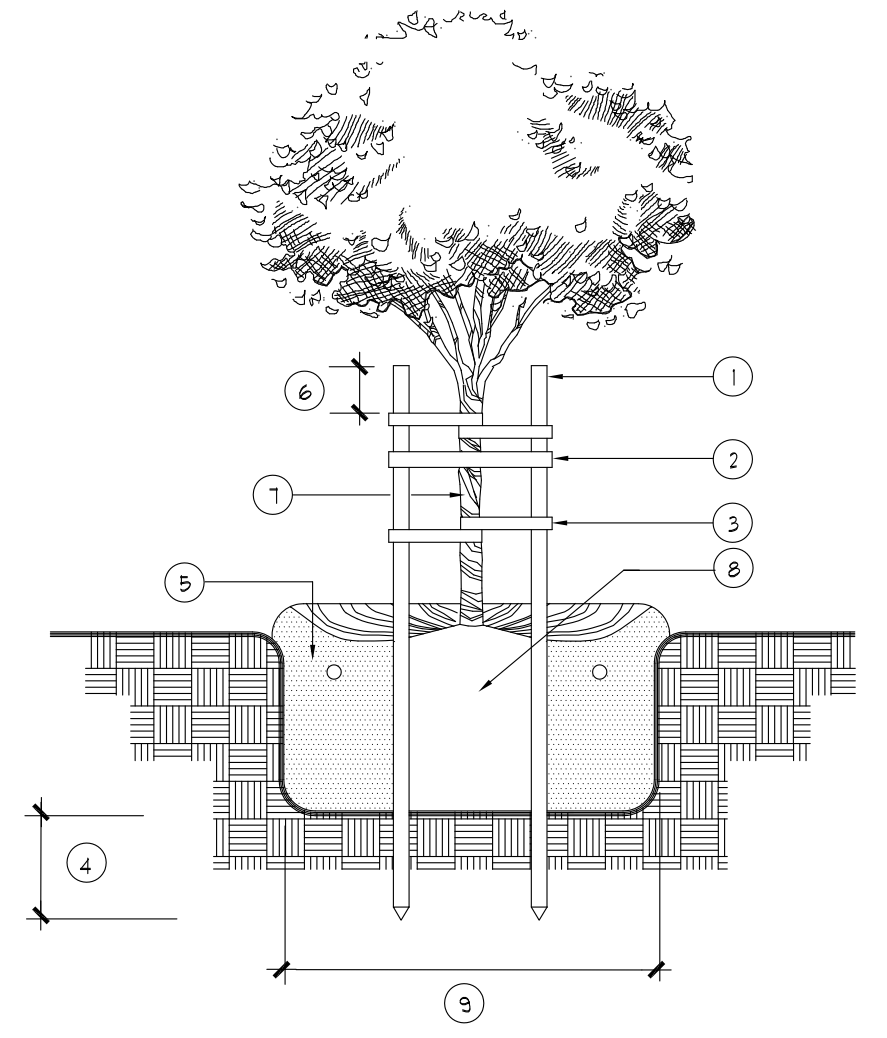
EXISTING CAMPUS TREE(S). CONTRACTOR SHALL NOT DAMAGE EXISTING TREES AND SHALL TAKE PRECAUTION WHEN WORKING AROUND EXISTING TREES AND TREE ROOTS. TREES SHALL BE PROTECTED IN PLACE. NOT ALL EXISTING TREES ARE SHOWN ON THESE DRAWINGS - ONLY THOSE THAT ARE ADJACENT TO PROPOSED WORK.

SYM.	DESCRIPTION	REMARKS
GROUND COVER		
	SHREDDED BARK MULCH (APPROVED BY DISTRICT)	4" LAYER IN SHRUB PLANTING AREAS- SEE SPECIFICATIONS FOR PARTICLE SIZE
	STABILIZED DECOMPOSED GRANITE - SOUTHWEST BOULDER AND STONE	3" LAYER OVER WEED BARRIER FABRIC FOR GATHERING AREAS. USE SOUTHWEST BOULDER AND STONE 'MOJAVE GOLD' COLOR. SEE SPECIFICATIONS FOR APPLICATION.
	SINGLE GRIND REDWOOD BARK (APPROVED BY DISTRICT)	4" LAYER IN BIOFILTRATION SLOPE AREAS - SUPPLIED BY SEQUOIA HORTICULTURAL PRODUCTS.
	ROUNDED BOULDERS - SOUTHWEST BOLDER AND STONE	NAVAJO CATEGORY BY SOUTHWEST BOULDER AND STONE - APPROVED BY DISTRICT. SIZES: 2-3" DIAMETER, 1-4" DIAMETER.

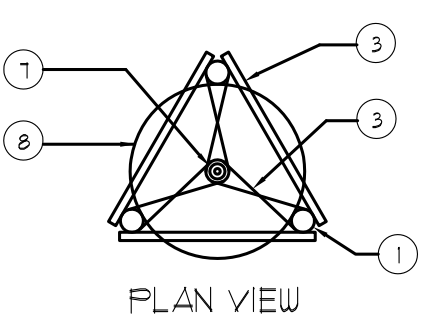


- 1 ROOTBALL.
- 2 CROWN-1' ABOVE FINISH GRADE.
- 3 FINISH GRADE.
- 4 2 X ROOTBALL WIDTH.
- 5 PLANTING BACKFILL.
- 6 PLANT TABLETS.
- 7 BARK MULCH / D.G. (WHERE APPLICABLE).
- 8 TOP OF PAVING.
- 9 6" HIGH WATERING BASIN.
- 10 UNDISTURBED NATIVE SOIL.
- 11 3" DIA. X 3' DEEP PERFORATED PVC BREATHER TUBE W/ NDS DRAIN GRATE (1 PER TREE).

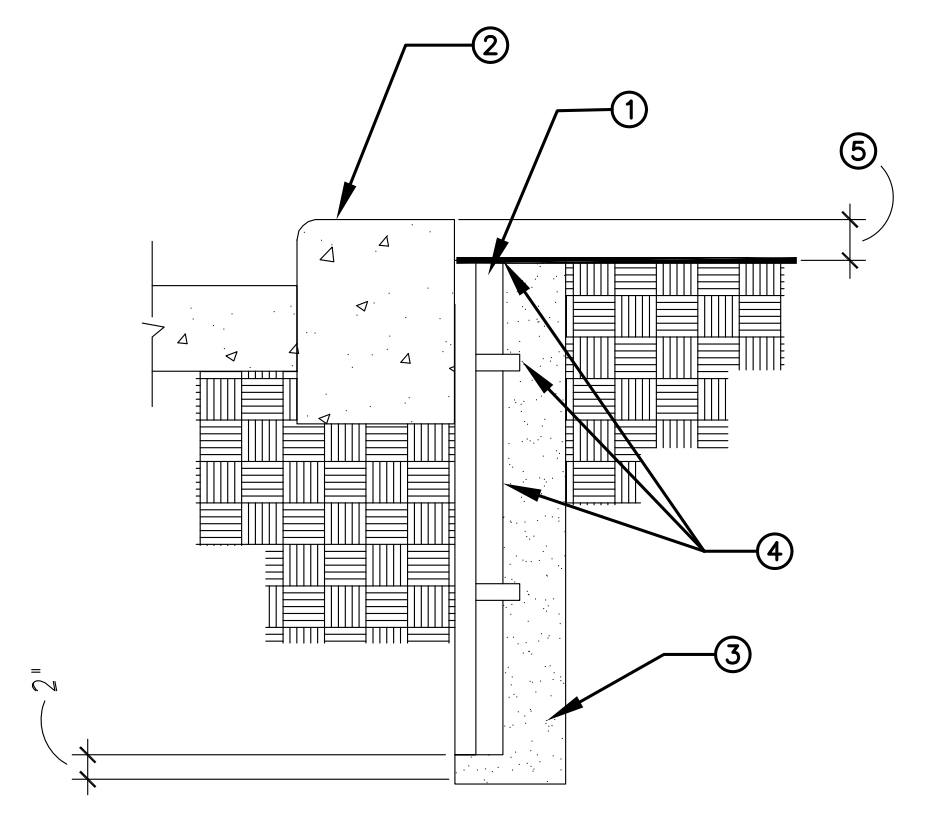
A TREE PLANTING
NO SCALE



- 1 3" DIA. X 10' LODGEPOLE PINE STAKE (3 REQ'D.).
- 2 1 X 2" WOOD BRACE (3 REQ'D.).
- 3 VINYL TREE TIE 3 REQ'D. PER STAKE.
- 4 24" MIN.
- 5 SEE TREE PLANTING DETAIL.
- 6 12" MIN.
- 7 TREE TRUNK.
- 8 ROOTBALL.
- 9 2X ROOTBALL WIDTH



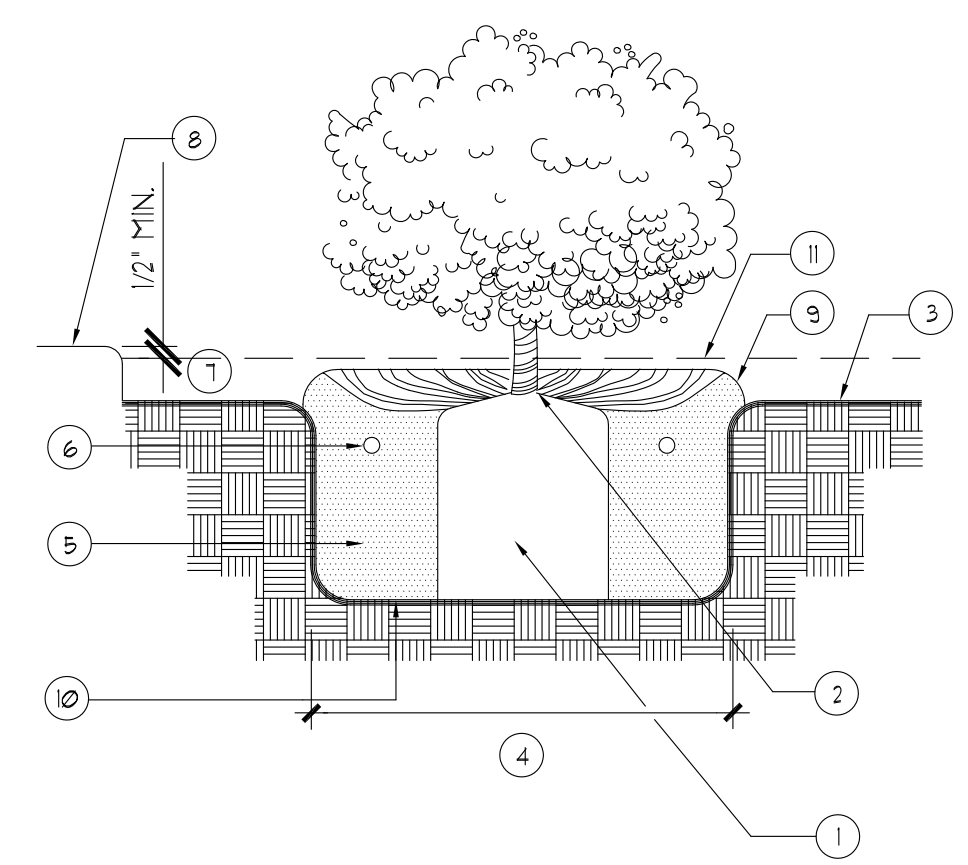
B TRIPLE STAKING
NO SCALE



- 1 24" X 24" INTERLOCKING ROOT CONTROL BARRIER PANELS - ROOT SOLUTIONS (1-800-554-0914) OR EQUAL 1/8" OF BARRIER PER TREE (MIN.).
- 2 SIDEWALK, CURB, SWALE OR PAVEMENT
- 3 ROOT CONTROL BARRIER TRENCH BACKFILLED WITH CLEAN SITE SOIL.
- 4 TOP OF ROOT CONTROL BARRIER 1/2" BELOW FINISH GRADE. ROOT DEFLECTORS AND SOIL ANCHORS MUST FACE TREE.
- 5 2" MINIMUM.

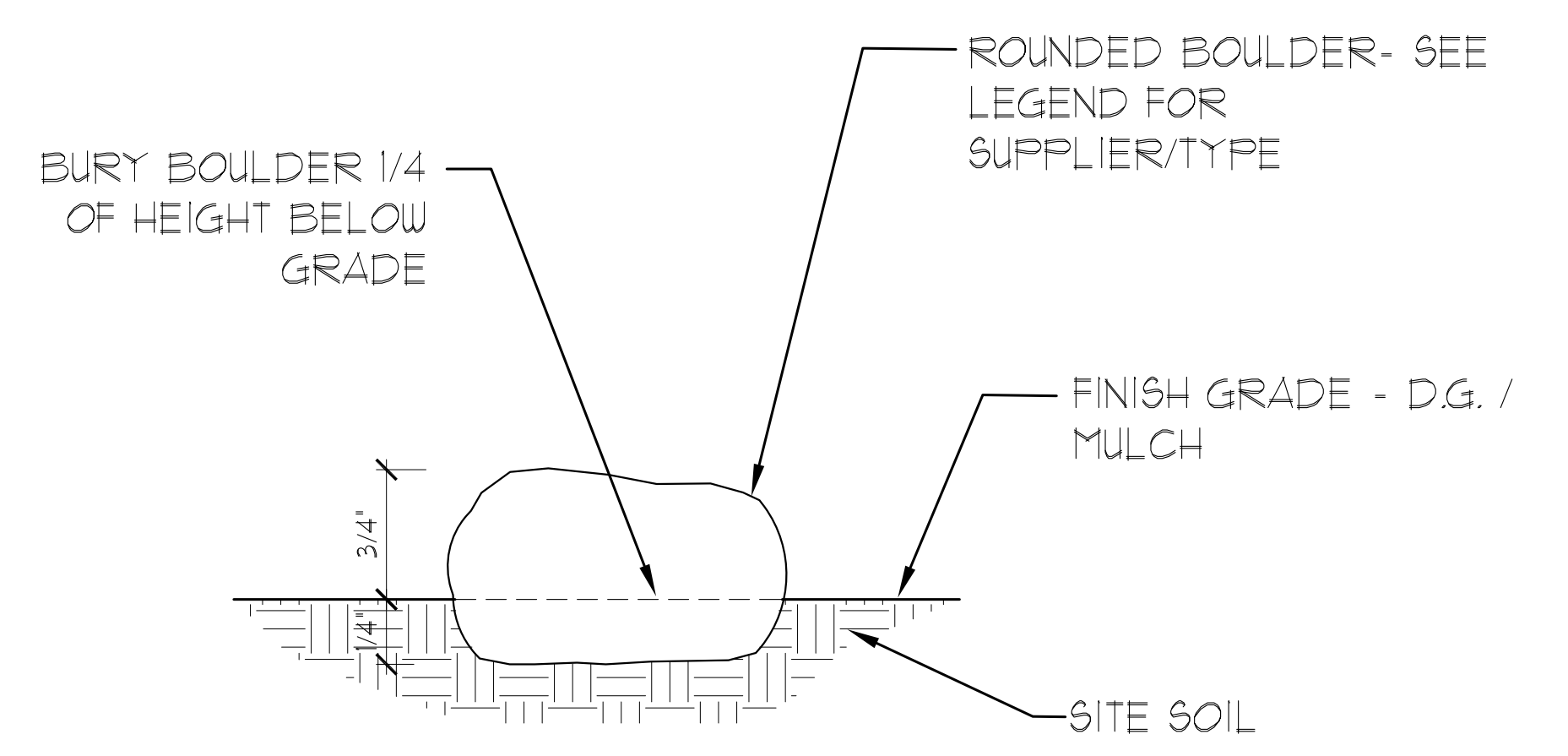
NOTE:
 • TOP OF ROOT CONTROL BARRIER SHALL BE INSTALLED SO IT IS NOT VISIBLE OR ABOVE GRADE.
 • INSTALL BARRIER FLUSH WITH BACK OF CURB/PAVEMENT.

C ROOT CONTROL BARRIER
NO SCALE



- 1 ROOTBALL.
- 2 CROWN-1' ABOVE FINISH GRADE.
- 3 FINISH GRADE.
- 4 2 X ROOTBALL DIA.
- 5 PLANTING BACKFILL.
- 6 PLANT TABLETS.
- 7 2" MAX. DEPTH.
- 8 TOP OF PAVING.
- 9 4" HIGH WATERING BASIN.
- 10 UNDISTURBED NATIVE SOIL.
- 11 BARK MULCH / D.G. (SEE SPECS).

D SHRUB PLANTING
NO SCALE



E BOULDER INSTALLATION DETAIL
NO SCALE

Revision _____ Date _____

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PLANTING LEGEND
 AND DETAILS

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PROSPECT AVENUE

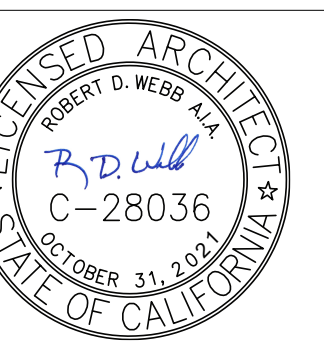
SITE PLAN LEGEND

- IMAGINARY PROPERTY LINE
- X-----X C.L.F. (CHAIN LINK FENCE)
- NEW ACCESSIBLE PATH OF TRAVEL
- EXISTING ACCESSIBLE PATH OF TRAVEL (DSA APPROVED APPL. 04-109083)
- (DF) DRINKING FOUNTAIN
- (B) BOYS
- (G) GIRLS
- (A) ALL GENDER

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-118742 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 02.05.20

Revision	Date

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 615 Esplanade Blvd., Ste. 201, Esplanade, California 92024
 Telephone: (760)743-6800 Fax: (760)452-7541

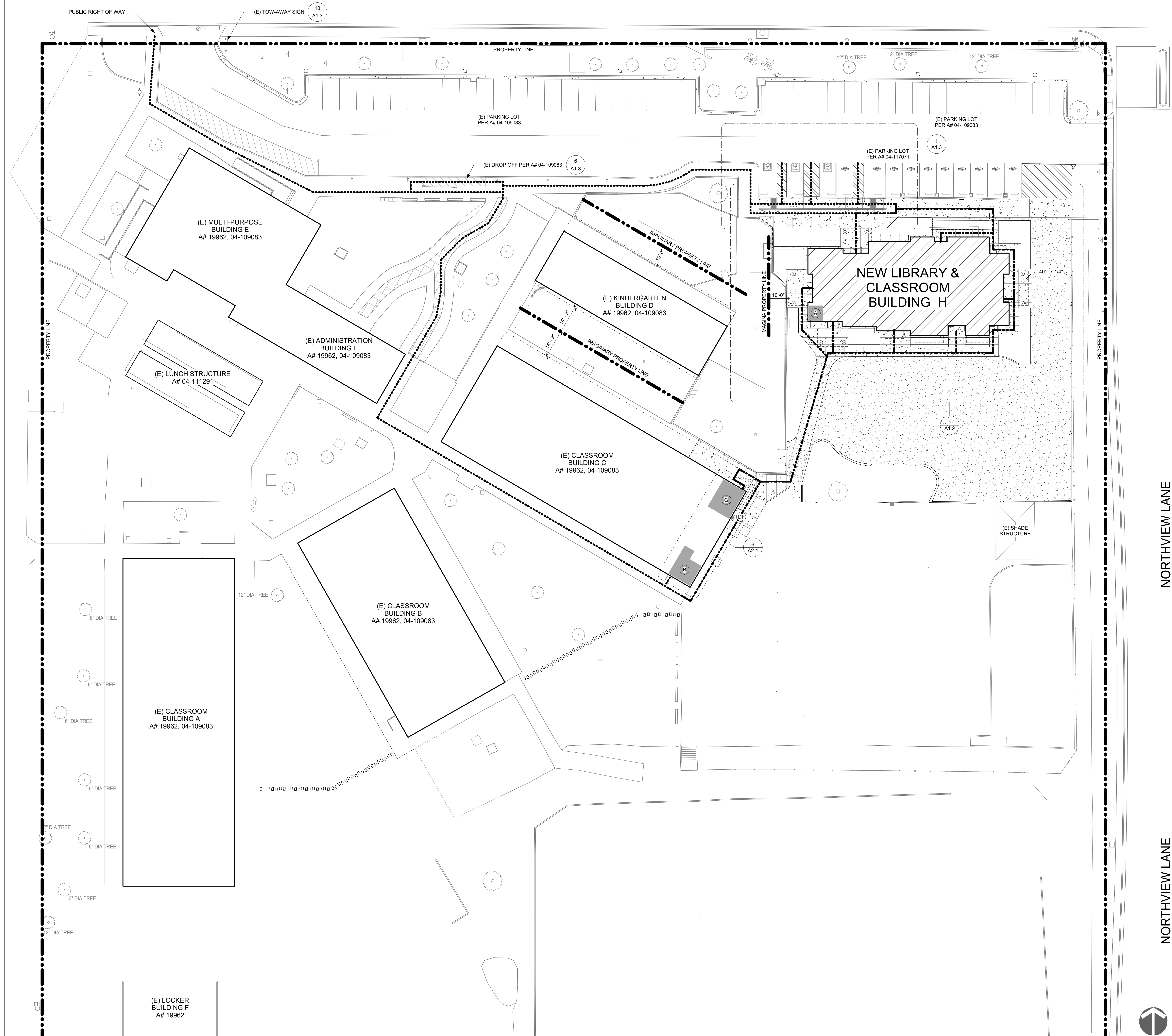


PROSPECT AVENUE ELEM SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

OVERALL SITE PLAN

Drawn: RI
 Checked: RDW
 Date: OCT. 14, 2019
 Job: SSD-PA-03

A0.1



ACCESS COMPLIANCE NOTES

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
 THE ACCESSIBLE PATH OF TRAVEL (P.O.T.) AS INDICATED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

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

OPENINGS IN GRATINGS AT DRAINS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAYS OF TRAVEL SHALL BE LIMITED TO 1/2" MAX.
 ALL BUILDINGS CONTAIN ACCESSIBLE PLUMBING FIXTURES. REFER TO FLOOR PLANS FOR EXACT LOCATIONS.
 GATES IN THE PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS PER CBC SECTION 11B-404

CODE ANALYSIS

NEW LIBRARY & CLASSROOM BUILDING	
CONSTRUCTION TYPE:	VB
OCCUPANCY:	MIXED: E / A3
STORIES:	1
SPRINKLED:	NO
ACTUAL AREA:	5,980 SF
E:	3,016 SF
A3:	2,964 SF
ALLOWABLE AREA:	E: 9,500 SF
	A3: 6,000 SF
MIXED OCCUPANCY ANALYSIS	
E	A3
3,016	2,964
9,500	6,000
= 0.81 (LESS THAN 1)	

(E) CLASSROOM BUILDING D (FOR REFERENCE ONLY)	
CONSTRUCTION TYPE:	VB
OCCUPANCY:	E
STORIES:	1
SPRINKLED:	NO
ACTUAL AREA:	6,873 SF
ALLOWABLE AREA:	9,500 SF

(E) CLASSROOM BUILDING C (FOR REFERENCE ONLY)	
CONSTRUCTION TYPE:	VB
OCCUPANCY:	E
STORIES:	1
SPRINKLED:	NO
ACTUAL AREA:	8,892 SF
ALLOWABLE AREA:	9,100 SF

PARKING COUNT

41	STANDARD SPACES
3	STANDARD ELECTRICAL VEHICLE (E.V.) CHARGING SPACE
1	ACCESSIBLE VAN E.V. CHARGING SPACE
1	ACCESSIBLE STANDARD E.V. CHARGING SPACE
1	ACCESSIBLE VAN SPACE
2	ACCESSIBLE STANDARD SPACE
54	TOTAL PARKING SPACES

PROSPECT AVENUE

FIRE ACCESS PLAN LEGEND

	20'-0" MINIMUM FIRE ACCESS LANE
FH	(E) FIRE HYDRANT

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-118742 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 02.05.20

FIRE FLOW RESULTS

Fire Flow Request Form

Section A: TO BE COMPLETED BY CUSTOMER

Name: CRISTINA BECKER
 Project Name: PROSPECT AVENUE ELEMENTARY SCHOOL - LIBRARY RESOURCE CENTER (LRC)
 Project Address: 9303 PROSPECT AVENUE, SANTEE, CA 92071
 Phone: 919-298-2023
 E-mail: CRISTINA.BECKER@STANTEE.DIST.CA.US

Section B: TO BE COMPLETED BY PADRE DAM

Water Purveyor: Padre Dam Municipal Water District
 Location of Test: Prospect Ave. School Santee Fire Hydrant #126

Open system Dead end system

Flow Test Results	
Hydrant Number: 126	
Static Pressure (PSI): 115	
Residual Pressure at Fire Flow (PSI): 115	
Model Flow (GPM) at 20 PSI Residual: 1150	
Certified Flow (GPM) at 20 PSI Residual restricted by 10 hose max: 3,523	

1. See plat attached VEROLOGY.
 2. Information obtained using a computer model.
 3. Results are valid for 6 months.

Comments: Max certified flow restricted from 12" ACP pipe.

Section C: PAYMENT

Modelled Fire Flow fees are \$50 per fire hydrant
 Check # Cost Centers: 00031
 Date Paid: 10/15/19 Object Acct: 44101

(E) FIRE HYDRANT

(E) FIRE HYDRANT

(E) FIRE ACCESS LANE PER A# 04-109083

(N) PAIR OF 10'-0" GATES W/ (N) KNOX BOX MOUNTED TO NEAREST POST

NEW BUILDING F LIBRARY & CLASSROOM

(E) MULTI-PURPOSE BUILDING E A# 19962

(E) KINDERGARTEN BUILDING D A# 19962

(E) ADMIN.

(E) CLASSROOM BUILDING C A# 19962

(E) CLASSROOM BUILDING B A# 19962

(E) CLASSROOM BUILDING A A# 19962

(E) BUILDING F A# 19962

(E) FIRE HYDRANT

NORTHVIEW LANE

NORTHVIEW LANE

DSA FORM 810

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

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

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

For additional information refer to the instructions at the end of this form and [DSA Policy 08-01](#).

PROJECT INFORMATION			
School District/Owner:	SANTÉE SCHOOL DISTRICT		
Project Name/School:	PROSPECT AVENUE SCHOOL		
Project Address:	9303 PROSPECT AVE, SANTEE, CA 92071		
FIRE & LIFE SAFETY INFORMATION			
1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
2. Was the fire hydrant water flow test performed as part of the LFA review?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
3. Is the project located within a designated fire hazard severity zone as established by Cal-Fire? (If yes, indicate fire hazard zone classification below)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Refer to the following for fire hazard zone locations: www.fire.ca.gov/files/resources/online/development_wildland_zones_maps			
	Moderate <input type="checkbox"/>	High <input type="checkbox"/>	Very High <input type="checkbox"/>
Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 2A.)			
	WIFA <input type="checkbox"/>	WIFA <input type="checkbox"/>	WIFA <input type="checkbox"/>
CONDITION MEANS AND METHODS RESOLUTION			
4. Emergency vehicle access <i>roadways</i> do not meet CFC requirements.	Yes	No	N/A NR
4a. Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Fire Hydrants: Number and spacing does not meet CFC requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5a. Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6a. Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7a. Acceptable Alternate: The location of the fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

DSA 810 (rev 10-25-18) DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 1 of 4

DSA 810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

School District Acceptance of Acceptable Design Alternates

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

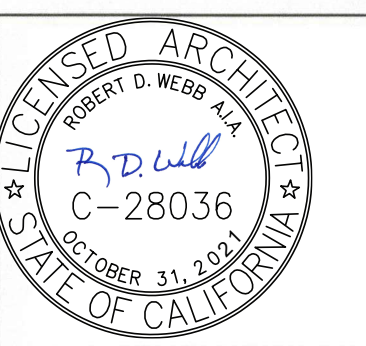
Accepted by: Christina Becker Title: Dir. Const. Facilities
 Signature: [Signature] Date: 1-27-20

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name: SANTÉE FIRE
 LFA Review Official: CARISA WOLKMAN
 Title: FIRE MARSHAL
 Work E-mail: C.Wolkman@cityofsantee.ca.gov

studiiowc
 ARCHITECTURE + ENGINEERING

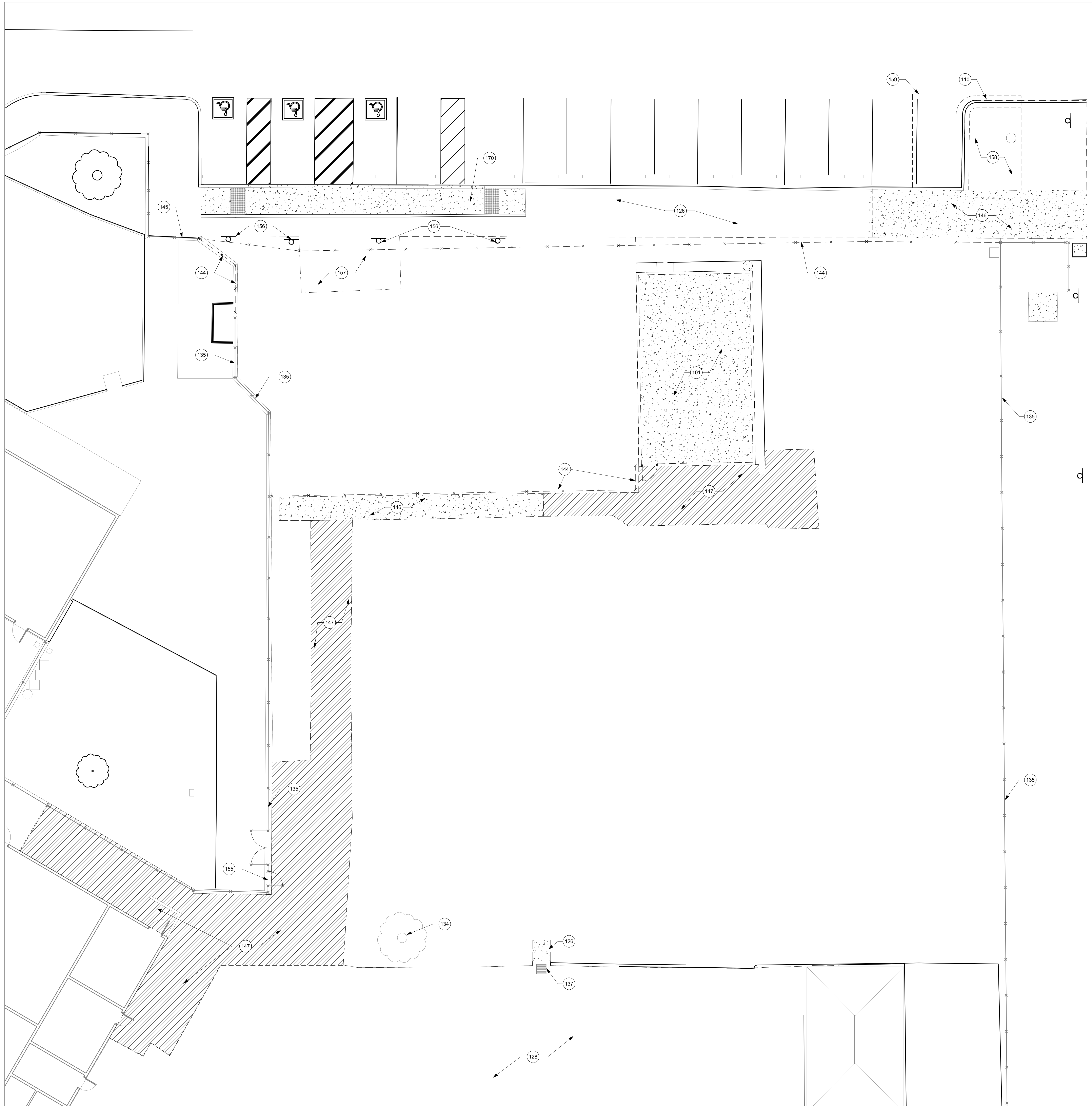
515 Enchiladas Blvd., Ste. 201, Encinitas, California 92024
 Telephone: (760)752-6800 Fax: (760)452-7541



PROSPECT AVENUE ELEM SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

OVERALL FIRE ACCESS PLAN

Drawn: RI
 Checked: RDW
 Date: OCT. 14, 2019
 Job: SSD-PA-03



DEMO PLAN LEGEND

	DEMO CONCRETE W/ REBAR
	DEMO FENCING
	DEMO ASPHALT PAVING

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-118742 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 02.05.20

KEYNOTES

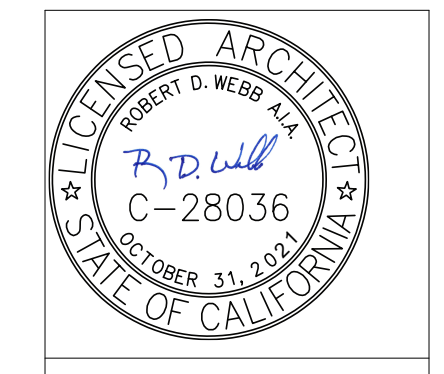
101	SAFE OFF AND REMOVE EXISTING PORTABLE BUILDING, COMPLETE, INCLUDING ALL CONCRETE FOUNDATIONS, EQUIPMENT AND UTILITIES. DISPOSE IN ACCORDANCE WITH CITY OF SANTEE AND COUNTY OF SAN DIEGO ENVIRONMENTAL AND TRANSPORTATION REGULATIONS.
110	SAWCUT AND REMOVE EX. CURB AND GUTTER
126	(E) CONCRETE PAVING TO REMAIN
128	(E) ASPHALT PAVING TO REMAIN
134	(E) TREE TO REMAIN. PROTECT IN PLACE
135	(E) FENCING TO REMAIN. PROTECT IN PLACE
137	(E) CATCH BASIN TO REMAIN
144	REMOVE/DEMO (E) CHAIN LINK FENCING COMPLETE, INCLUDING POST FOUNDATIONS
145	(E) DECORATIVE FENCING TO REMAIN, PROTECT IN PLACE
146	REMOVE/DEMO PORTION OF (E) CONCRETE WALK
147	REMOVE/DEMO PORTION OF (E) ASPHALT PAVING
155	(E) GATE PER #104-108085 TO REMAIN
156	REMOVE & SALVAGE (E) PARKING SIGNS, TYP. AT FENCE
157	SAFE OFF AND REMOVE (E) ELECTRICAL EQUIPMENT, SEE ELECTRICAL DWGS.
158	REMOVE/DEMO PORTION OF LANDSCAPE
159	SLURRY OVER (E) PARKING STRIPE
170	(E) CURB CUTS TO REMAIN

GENERAL NOTES

- ALL ITEMS INDICATED FOR REMOVAL SHALL BE REMOVED COMPLETELY, INCLUDING ALL FOUNDATIONS, TREE ROOTS, ELECTRICAL BOXES, CONDUITS, ETC. ALL ITEMS SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH THE CITY OF SANTEE AND COUNTY OF SAN DIEGO ENVIRONMENTAL AND TRANSPORTATION REGULATIONS.
- REMOVE ALL IRRIGATION WITHIN THE BUILDING/GRADING FOOTPRINT. POTHOLE AND TRACK EXISTING IRRIGATION AT ALL BOUNDARY POINTS. PROVIDE TEMPORARY IRRIGATION TO ALL EXISTING PLANTERS DURING CONSTRUCTION TO MAINTAIN LANDSCAPING IN GOOD CONDITION UNTIL FINAL LANDSCAPING AND IRRIGATION IS COMPLETED.
- REFERENCE SPECIFICATIONS, TITLE SHEET GENERAL NOTES, AND APPLICABLE DRAWINGS AND NOTES ON MECHANICAL, ELECTRICAL PLUMBING AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
- HALFTONE LINEWORK REPRESENTS CONSTRUCTION TO REMAIN.
- DARK LINES REPRESENT MATERIALS OR WALL FRAMING TO BE PROVIDED. REFERENCE KEYNOTES FOR ADDITIONAL INFORMATION.
- KEYNOTES ARE INDICATED AT ONLY A PORTION OF THE BUILDING ELEMENTS. ELEMENTS ILLUSTRATED SIMILARLY, MIRRORRED DESIGN, AND SIMILAR CONDITIONS SHALL BE ASSUMED TO BE NOTED SIMILARLY. QUANTITIES SHALL NOT BE DENOTED BY KEYNOTES.
- REFERENCE PLUMBING AND ELECTRICAL DRAWINGS FOR SITEWORK UTILITY ROUTINGS. CONTRACTOR SHALL BE RESPONSIBLE TO SAW CUT PAVING, TRENCHING, COMPACT TRENCH BACKFILL, PAVING FINISHES MATCHING IN DEPTHS AND TYPES OF THAT REMOVED SHALL BE PROVIDED.
- KEYNOTES WITHOUT ARROWS DENOTE AN ITEM OR REGION OF THE GENERAL AREA IN WHICH THEY ARE LOCATED AND ARE REFERENCING.

Revision	Date

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 Telephone: (760)743-5800 Fax: (760)452-7541

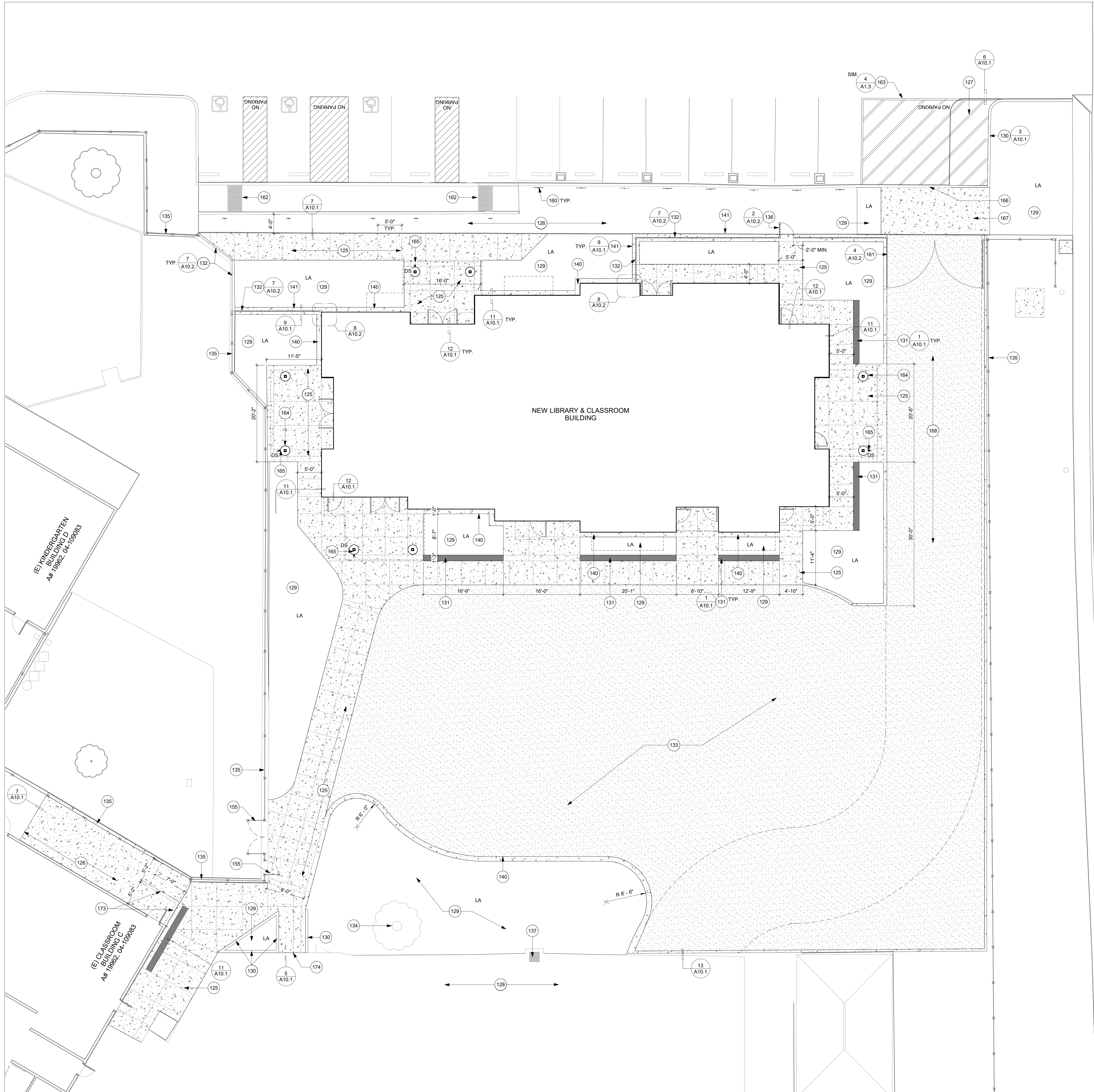


PROSPECT AVENUE ELEMENTARY SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

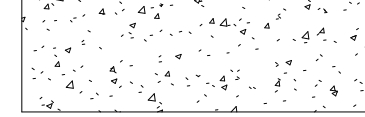





ENLARGED SITE
 PLAN- DEMO

Drawn:
 RI
 Checked:
 RDW
 Date:
 OCT. 14, 2019
 Job:
 SSD-PA-03

A1.1



PAVING LEGEND

-  (N) CONCRETE
-  (N) DECOMPOSED GRANITE
-  (N) LANDSCAPE AREA
-  (N) ASPHALT AREA
-  (N) BENCH WALL
-  (N) DECORATIVE METAL FENCING

KEYNOTES

- 125 (N) CONCRETE PER CIVIL DETAILS
- 126 (E) CONCRETE PAVING TO REMAIN
- 127 (N) ASPHALT PAVING PER CIVIL DETAILS
- 128 (E) ASPHALT PAVING TO REMAIN
- 129 (N) LANDSCAPE AREA
- 130 (N) CONCRETE CURB PER CIVIL DETAILS
- 131 (N) BENCH WALL, SEE DETAIL 1/A10.1
- 132 (N) DECORATIVE METAL FENCING
- 133 PROVIDE DECOMPOSED GRANITE SURFACING PER CIVIL DETAILS
- 134 (E) TREE TO REMAIN, PROTECT IN PLACE
- 135 (E) FENCING TO REMAIN, PROTECT IN PLACE
- 136 (N) DECORATIVE METAL GATE, SEE DETAIL ON PLAN
- 137 (E) CATCH BASIN TO REMAIN
- 140 (N) 12" WIDE CONCRETE MOW CURB AT BUILDING PERIMETER
- 141 (N) 15" WIDE CONCRETE MOW CURB AT FENCING
- 155 (E) GATE PER A# 04-109083 TO REMAIN
- 160 (N) PARKING SIGN POSTS W/ SALVAGED SIGNS INSTALLED
- 161 (N) PAIR OF 10'-0" WIDE DECORATIVE METAL GATES, SEE DETAIL ON PLAN
- 162 (E) CURB RAMP W/ TRUNCATED DOMES TO REMAIN
- 163 (N) STRIPING OVER (N) ASPHALT AND SLURRY
- 164 PROVIDE 24" DIAMETER ROUND CONCRETE COLUMNS, SEE STRUCTURAL DRAWINGS
- 165 PROVIDE DOWNSPOUT AT LOCATION INDICATED BY 'DS'
- 166 REFER TO CIVIL DRAWINGS FOR FIRE LANE ENTRANCE DETAILS
- 167 PROVIDE FIRE TRUCK RATED CONCRETE AT THIS AREA, SEE CIVIL DETAILS
- 168 PROVIDE FIRE TRUCK RATED DECOMPOSED SURFACING THIS AREA, SEE CIVIL DRAWINGS
- 173 REMOVE EXISTING FENCE. POUR NEW CURB. REINSTALL FENCE ON TOP OF CURB
- 174 GRADE FLUSH TO MATCH EXISTING

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-118742 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 02.05.20

Revision	Date

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 ARCHITECTURE + ENGINEERING
 515 Esplanade Blvd., Ste. 201, Esplanade, California 92024
 Telephone: (760)743-5800 Fax: (760)452-7541

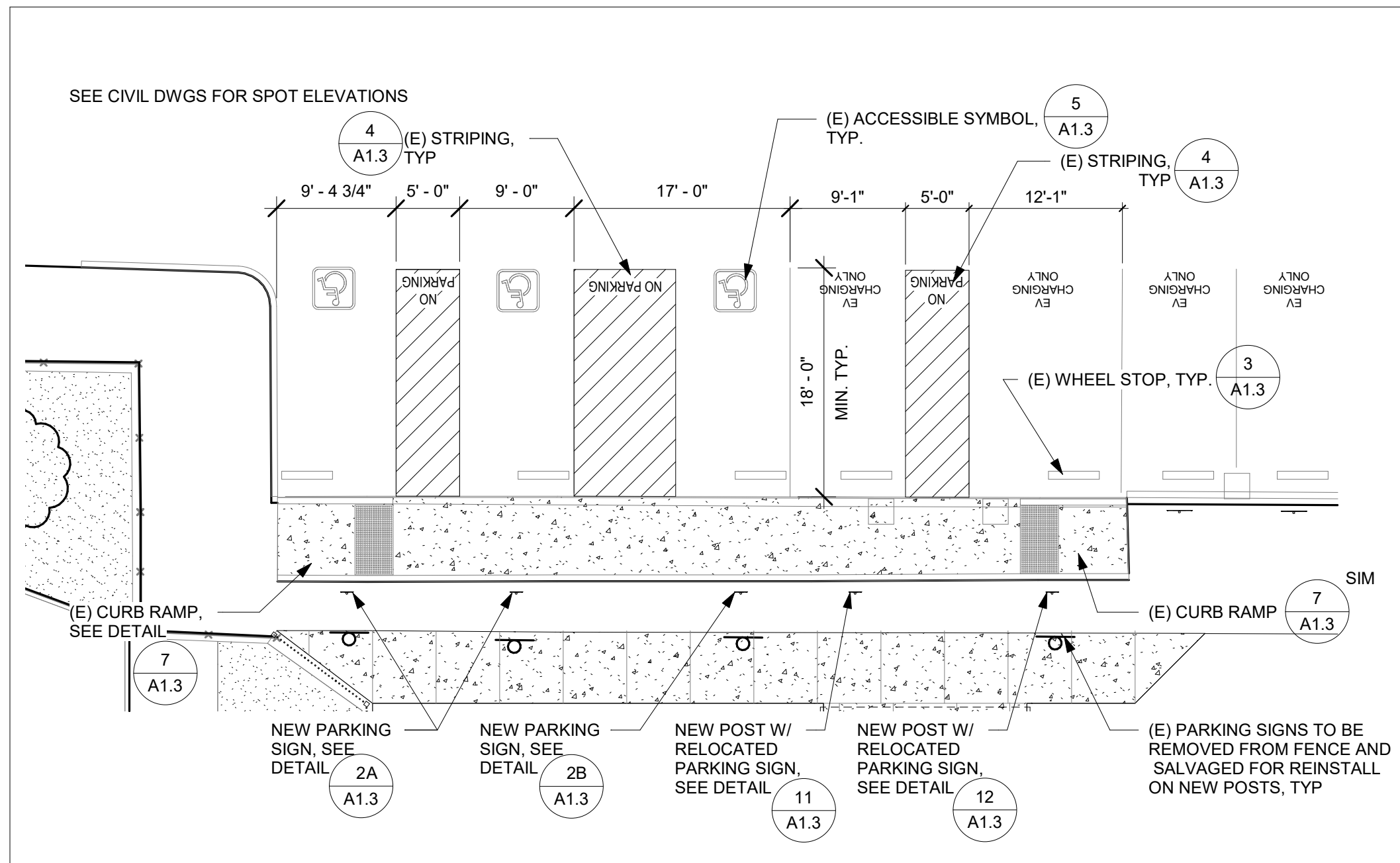
REGISTERED ARCHITECT
 ROBERT D. WEBB
 C-28036
 EXPIRES 31.1.2014
 STATE OF CALIFORNIA

PROSPECT AVENUE ELEM SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

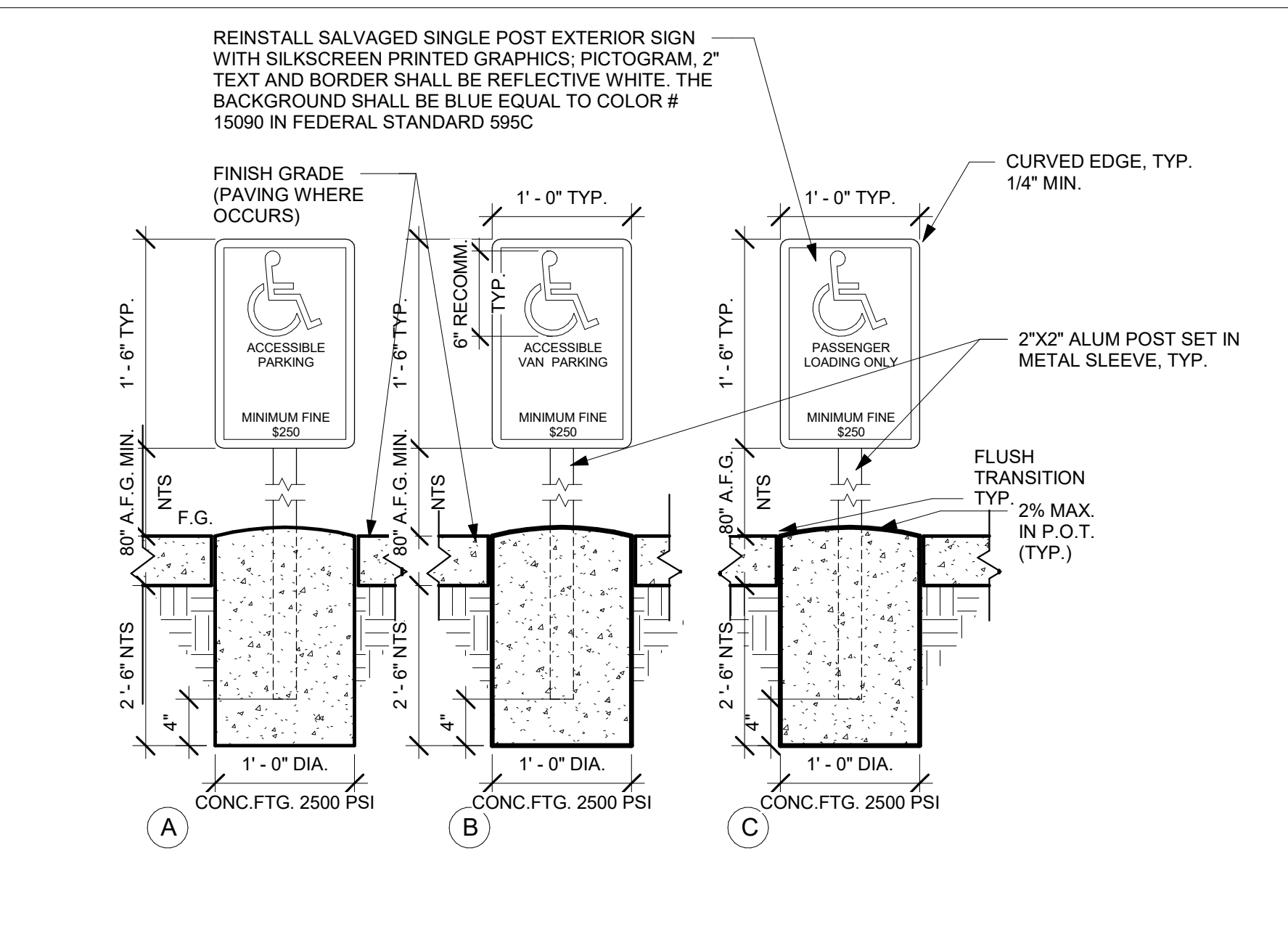
ENLARGED SITE PLAN

Drawn:
RI
 Checked:
RDW
 Date:
OCT. 14, 2019
 Job:
SSD-PA-03

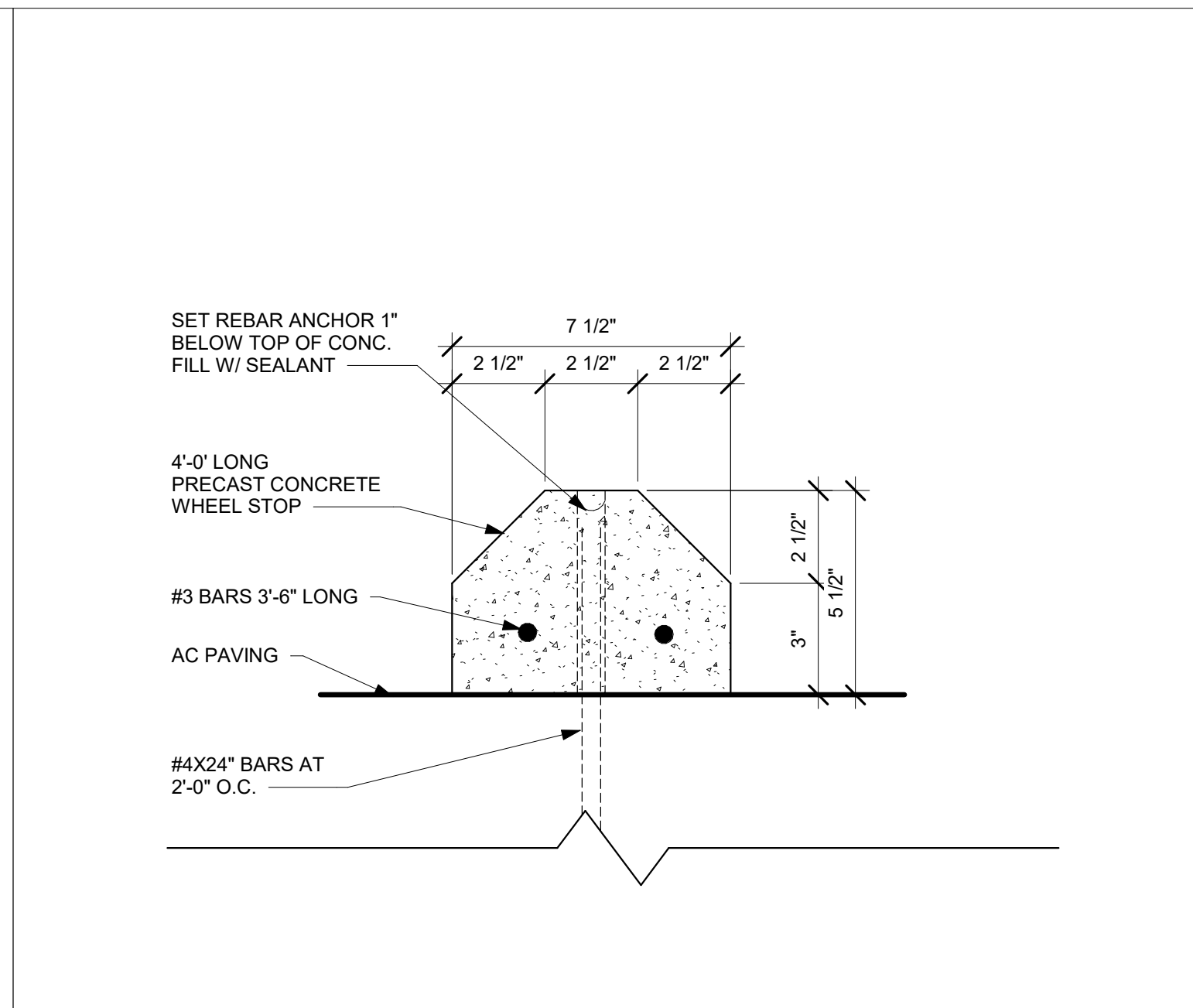
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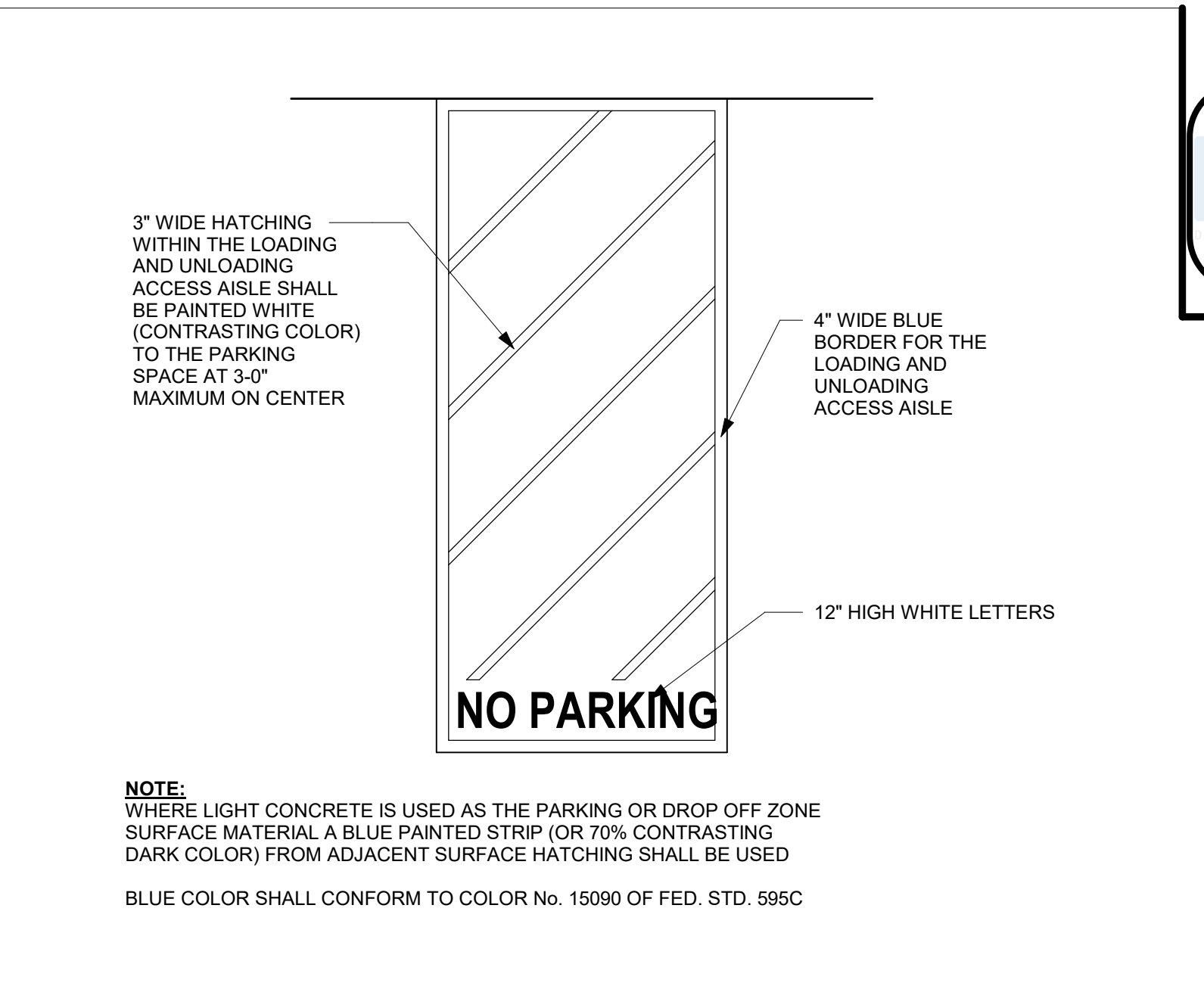
ENLARGED PARKING PLAN 1" = 1'-0" 1



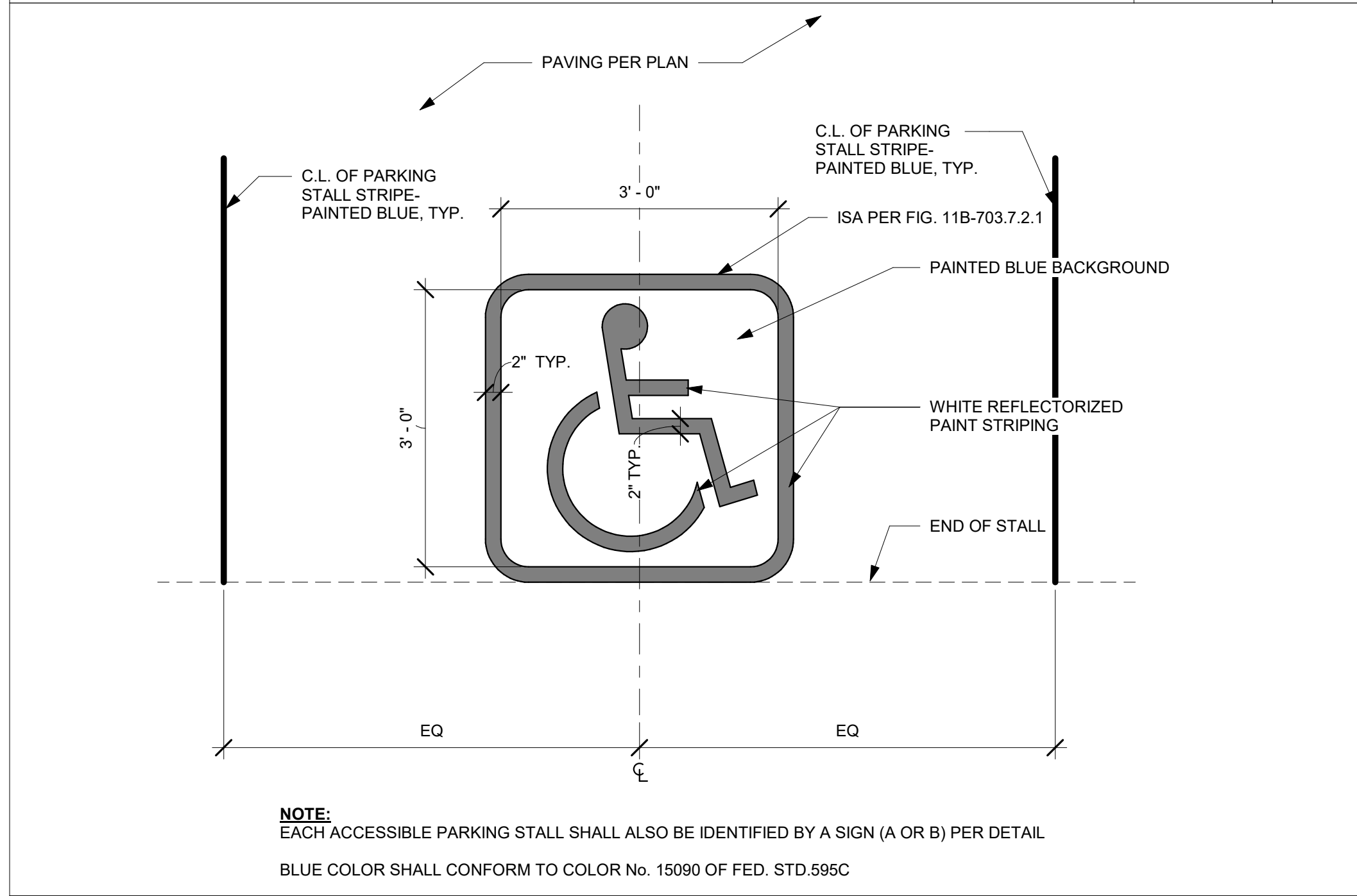
ACCESSIBLE PARKING SIGN 1" = 1'-0" 2



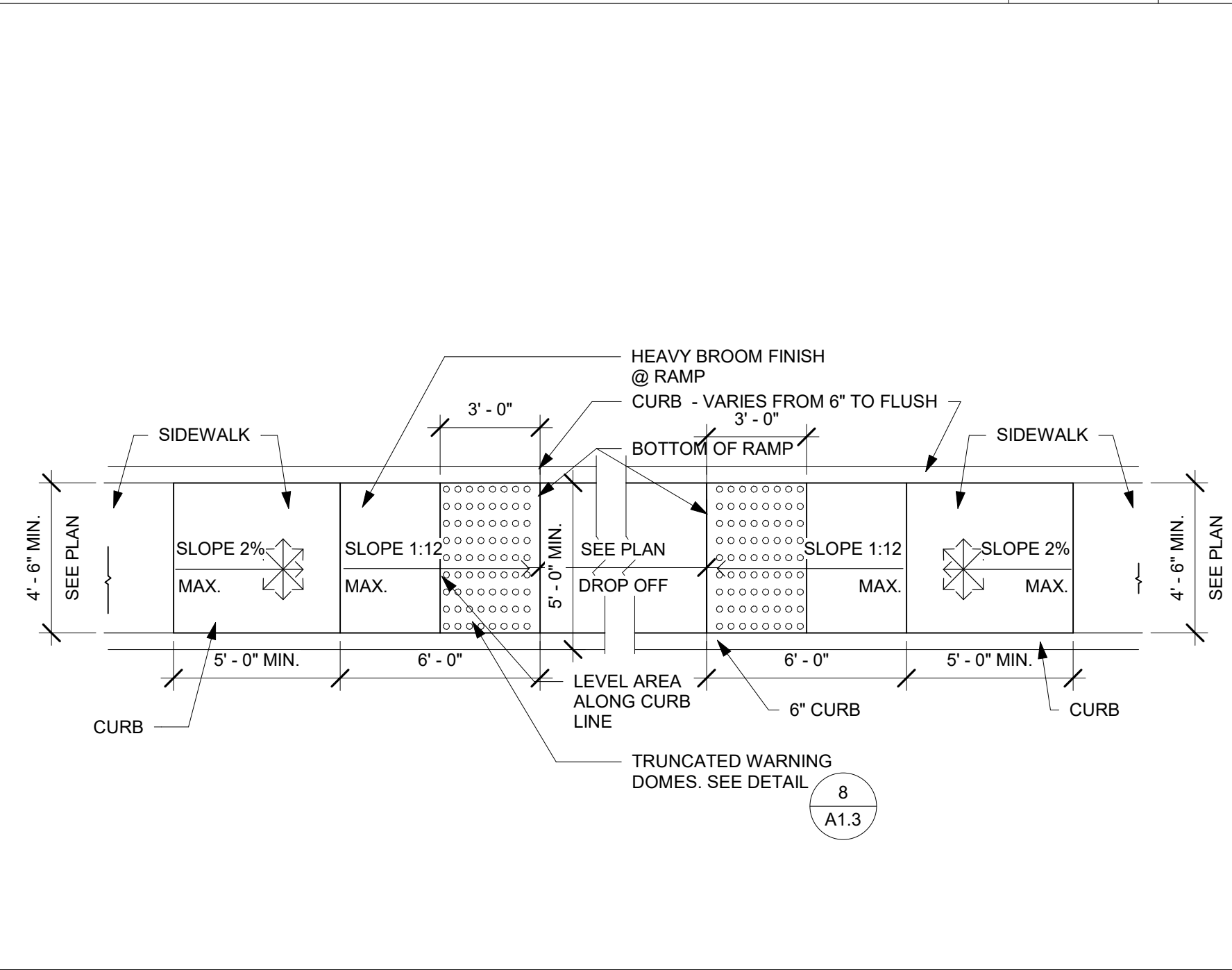
PARKING STOP 3" = 1'-0" 3



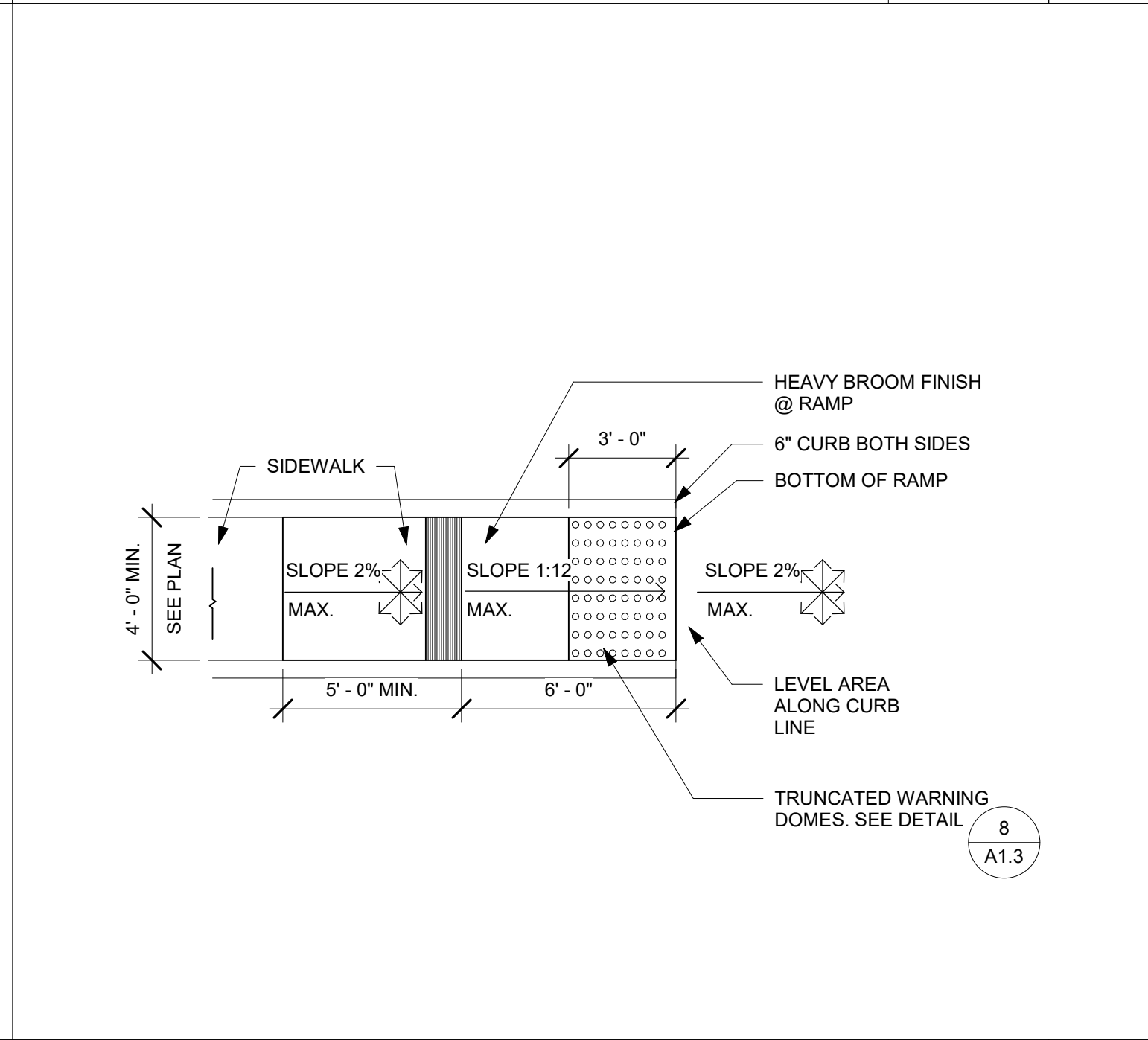
STRIPING REQUIREMENTS 1/4" = 1'-0" 4



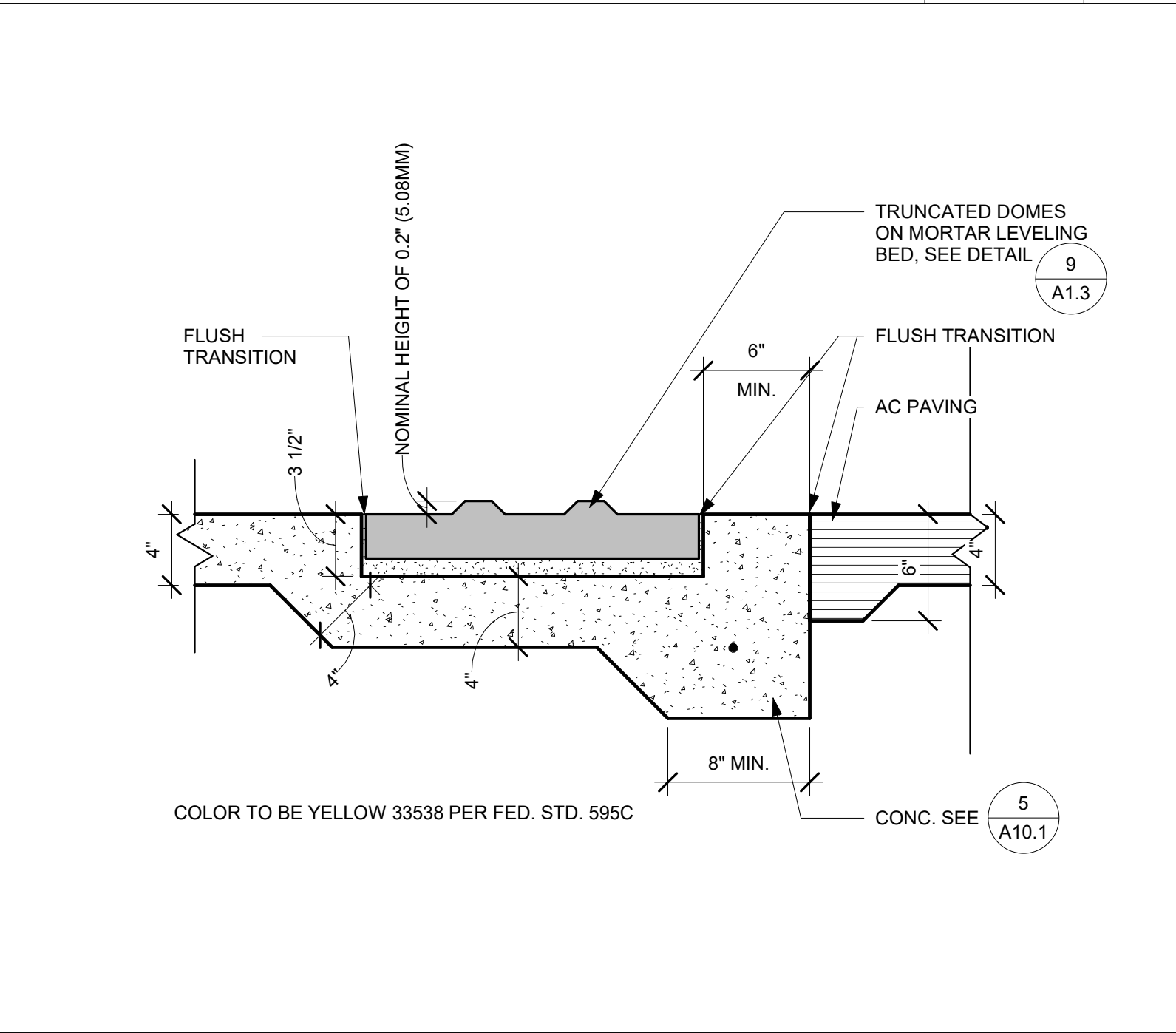
SYMBOL OF ACCESSIBILITY 3/4" = 1'-0" 5



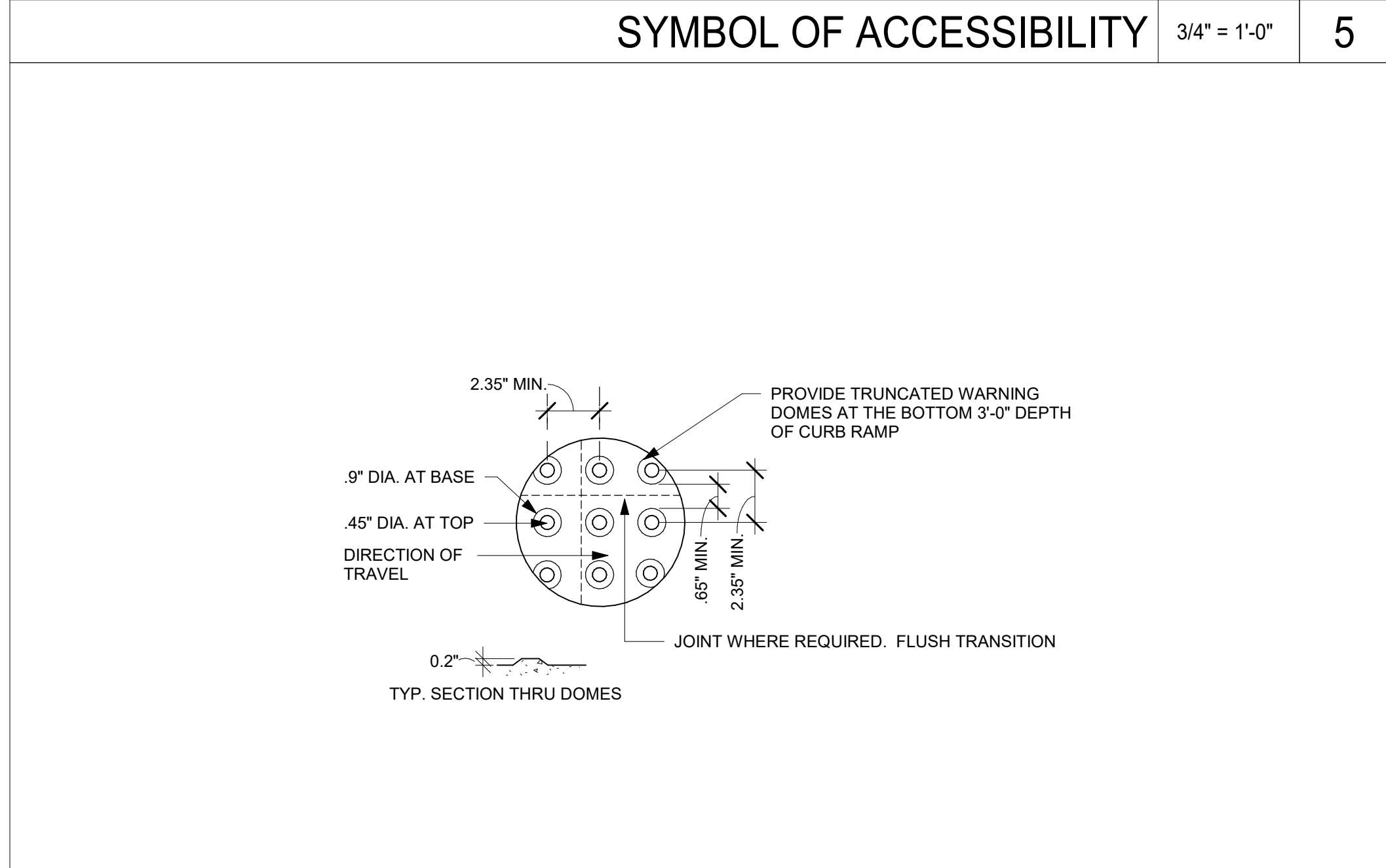
STRAIGHT RUN CURB RAMP/DROP OFF 1/4" = 1'-0" 6



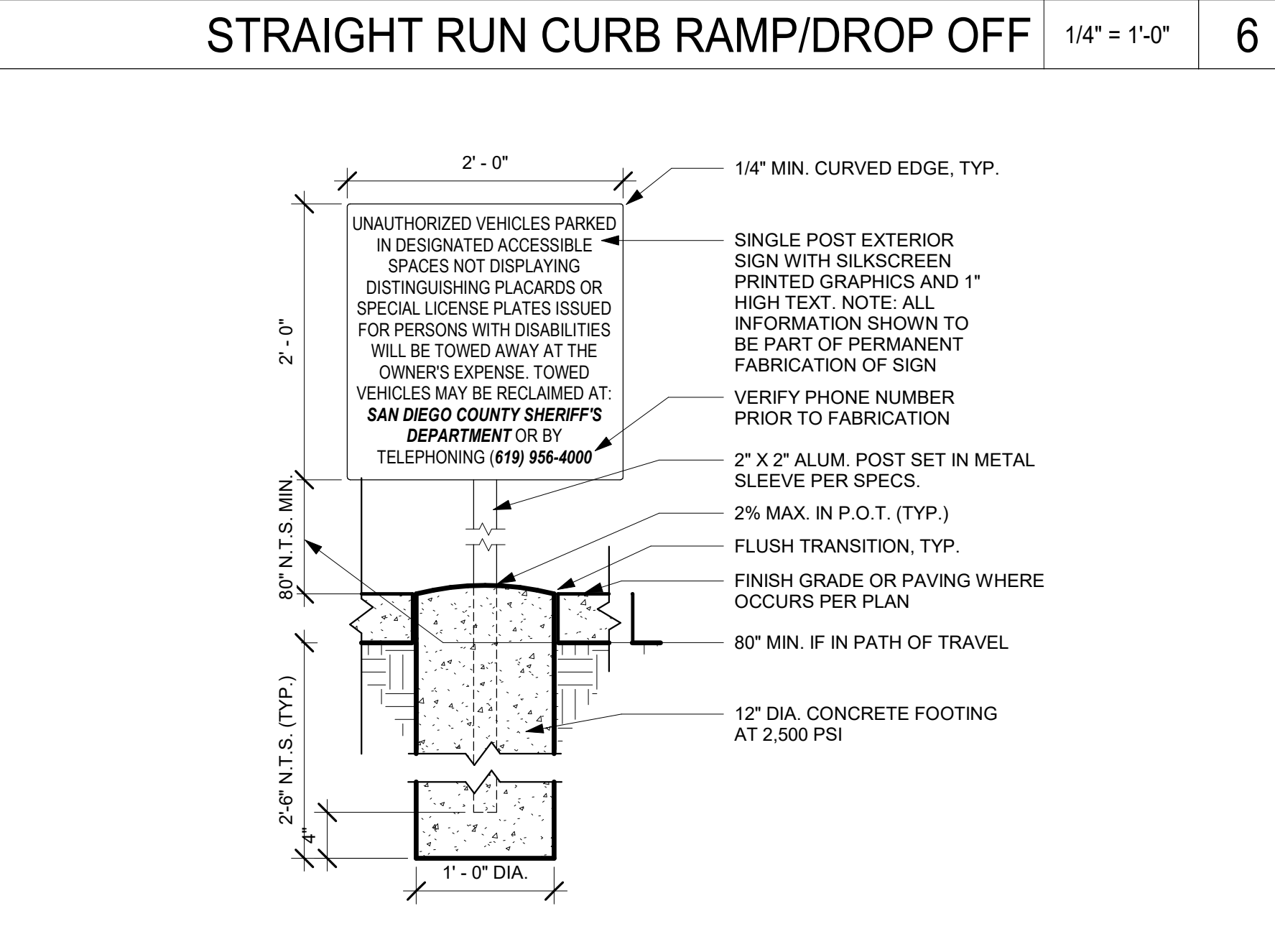
STRAIGHT RUN CURB RAMP 1/4" = 1'-0" 7



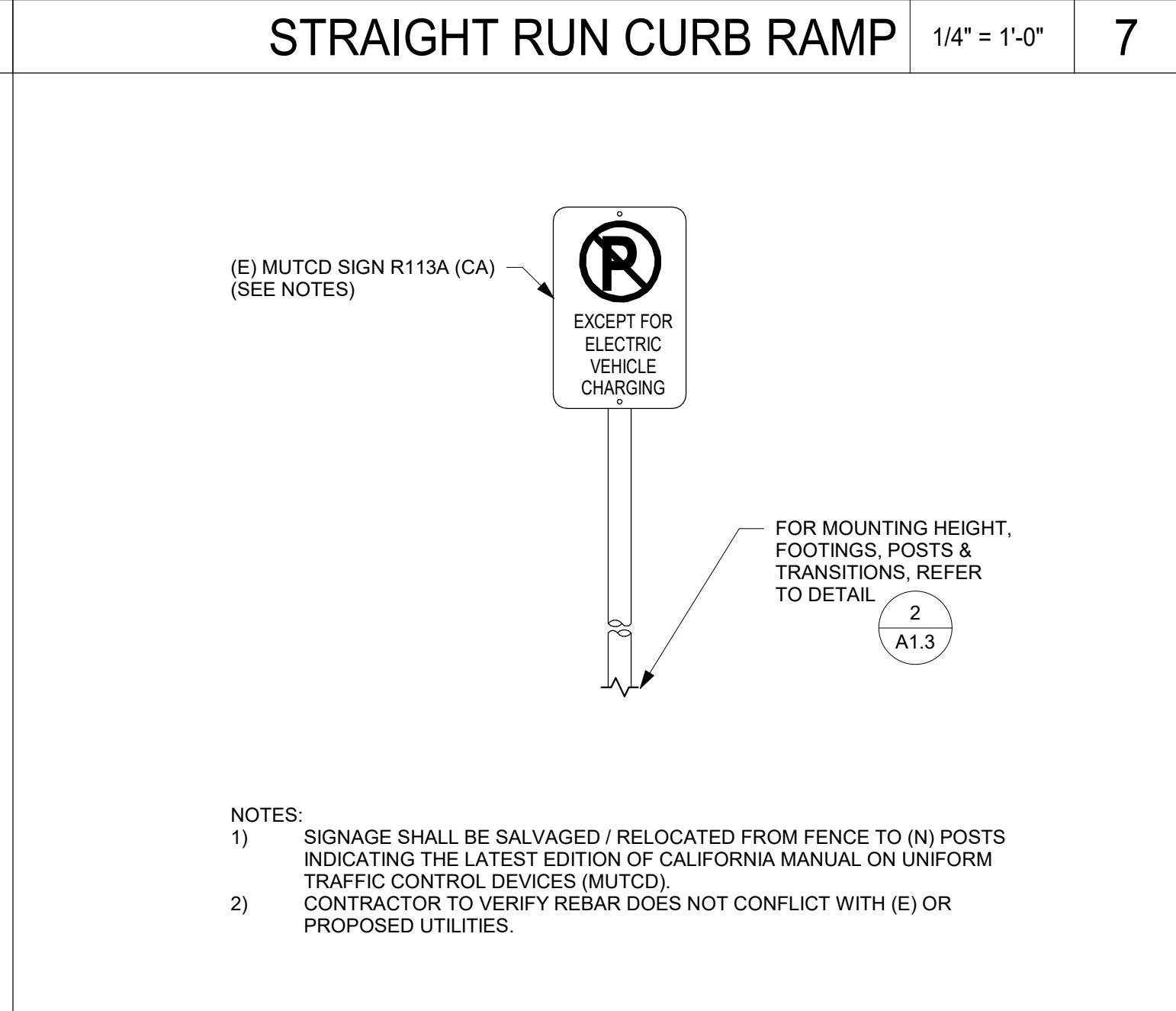
TRUNCATED DOMES AT PAVING 1 1/2" = 1'-0" 8



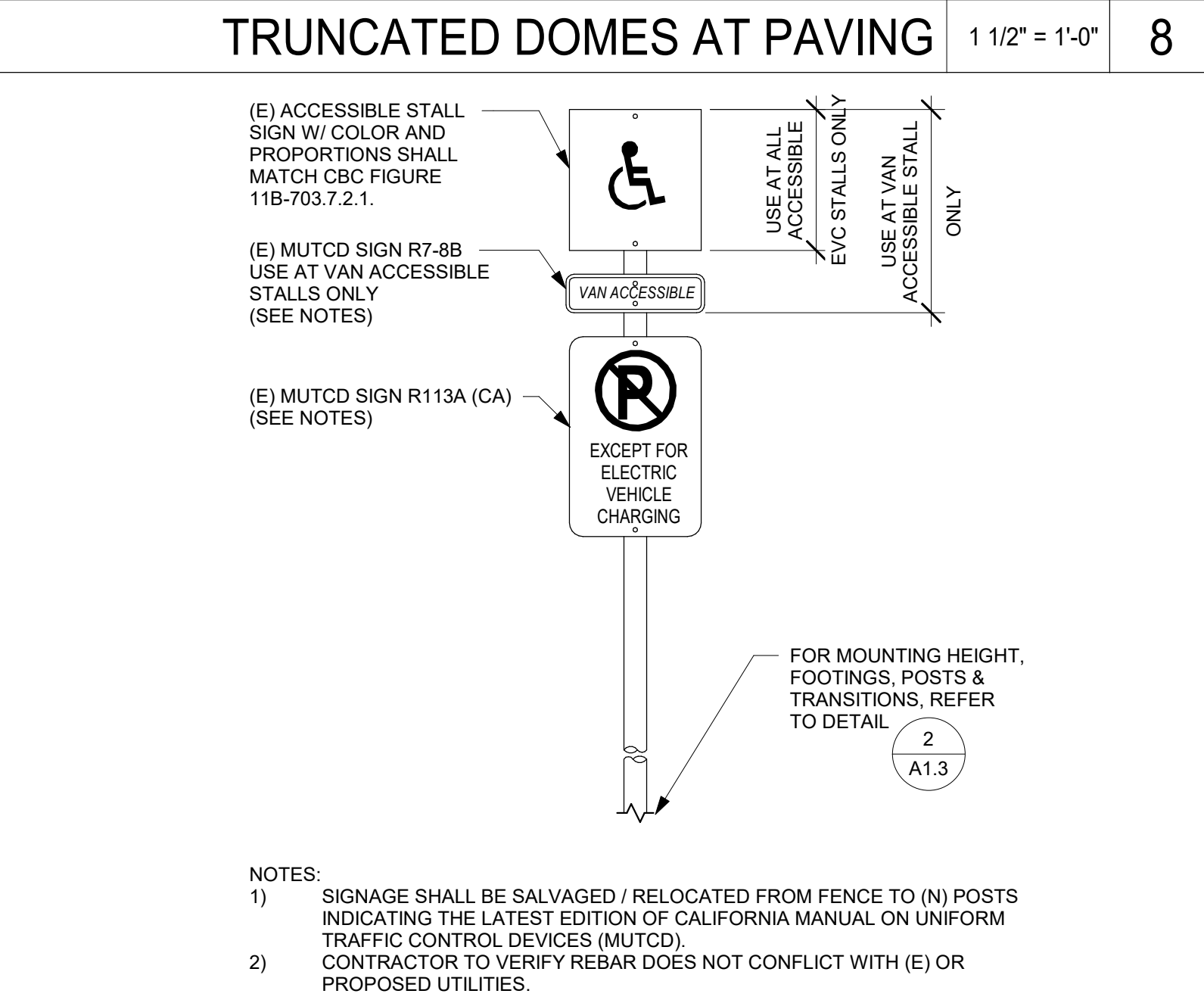
TRUNCATED DOMES DETAIL VIEW 1/4" = 1'-0" 9



TOW-AWAY SIGN 1" = 1'-0" 10



EV PARKING SIGN 3/4" = 1'-0" 11

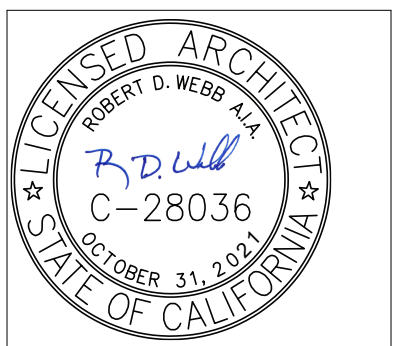


EV PARKING SIGN (W/ ADA) 3/4" = 1'-0" 12

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-118742 INC.
REVIEWED FOR
DATE: 02.05.20

Revision	Date

Consultant
Engineer



PROJECT AVENUE ELEM SCHOOL
LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

ENLARGED PARKING PLAN

Drawn: RI
Checked: RDW
Date: OCT. 14, 2019
Job: SSD-PA-03

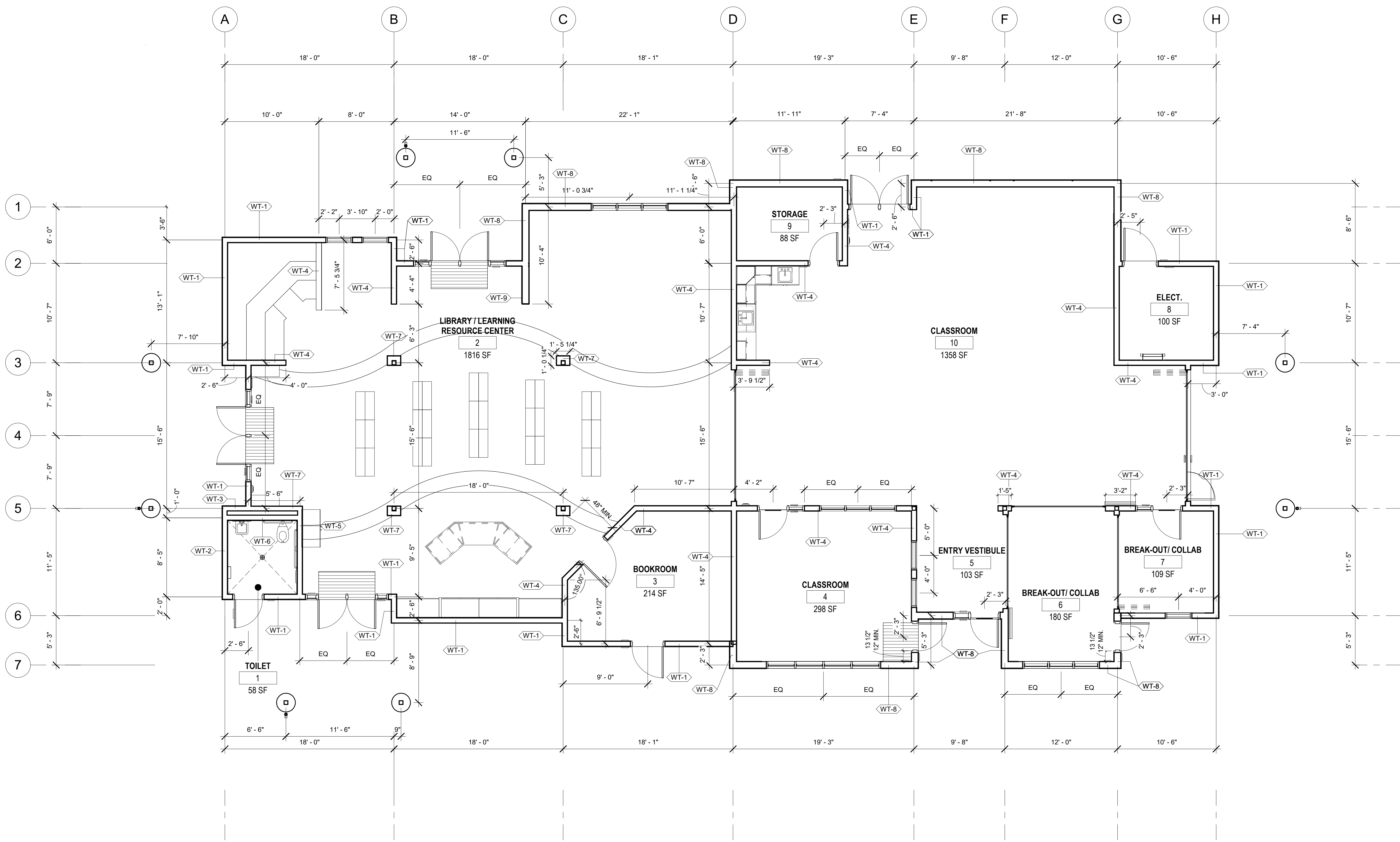
WALL LEGEND

- WT-X WALL TYPE - SEE 1/A2.0
- NOTE:
INTERIOR WALLS ARE TO BOTTOM OF DECK, INSULATED WITH 5" BATT INSULATION NO-FACE AND GYP. EA. SIDE, UNLESS NOTED OTHERWISE.
- PH PANIC HARDWARE - SEE DOOR SCHEDULE
- DPH DELAYED PANIC HARDWARE - SEE DOOR SCHEDULE
- X WINDOW TYPE - SEE DOOR AND OPENING SCHEDULE
- XX DOOR OPENING - SEE DOOR AND OPENING SCHEDULE

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GENERAL NOTES

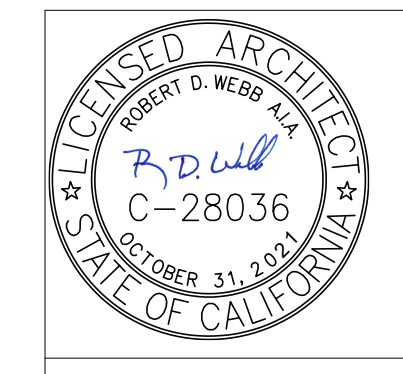
1. FOR SIGNAGE, SEE SHEET 1
A2.2
2. ALL DIMENSIONS ARE CENTER OF STUD, U.N.O.
3. ALL DIMENSIONS FOR ACCESSIBLE CLEARANCE ARE TO FINISH SURFACE
4. ALL EXTERIOR WALL TO HAVE R-19 BATT INSULATION
5. ALL ROOF TO HAVE R-38 BATT INSULATION
6. SEE FINISH SCHEDULE FOR ROOM FINISHES
7. MAXIMUM FLAME SPREAD SHALL COMPLY WITH SECTION 504 CBC, CLASS III PER TABLE 8B
8. SMOKE DENSITY FOR FINISH MATERIALS NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH CBC CHAPTER 7
9. SEE OVERALL FLOOR PLAN FOR KEYNOTES 1
A2.3



ENLARGED FLOOR PLAN - FF - DIMENSION 3/16" = 1'-0" 1

Revision	Date

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ARCHITECTURE + ENGINEERING
615 Esplanade Blvd, Ste. 201, Escondido, California 92024
Telephone: (760)733-5800 Fax: (760)452-7541

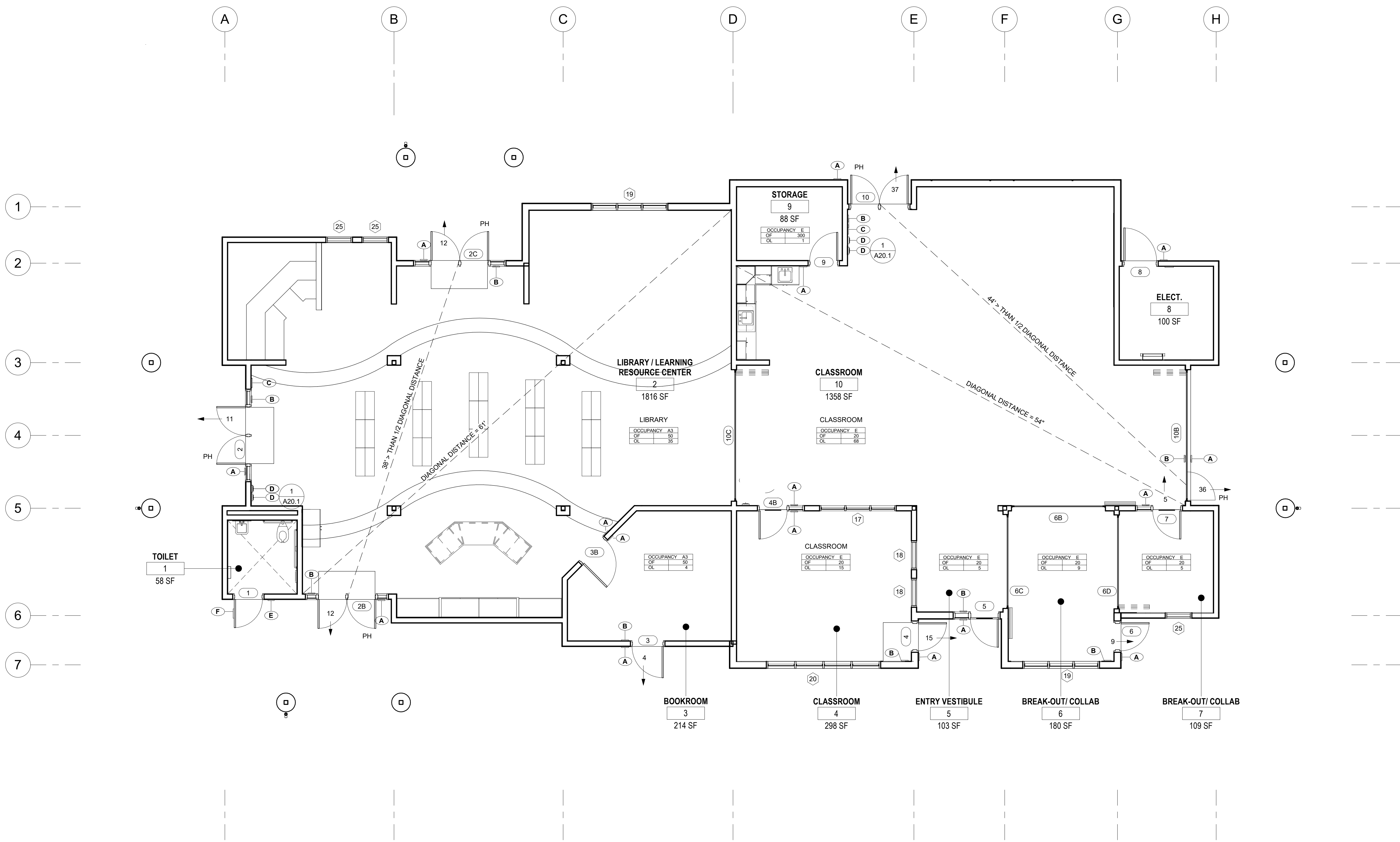


PROSPECT AVENUE ELEM SCHOOL
LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

DIMENSION FLOOR PLAN

Drawn:
RI
Checked:
RDW
Date:
OCT. 14, 2019
Job:
SSD-PA-03

A2.1



WALL LEGEND

NOTE:
 INTERIOR WALLS ARE TO BOTTOM OF DECK, INSULATED WITH 5" BATT INSULATION NO-FACE AND GYP. EA. SIDE, UNLESS NOTED OTHERWISE.

PH PANIC HARDWARE - SEE DOOR SCHEDULE

⊗ WINDOW TYPE - SEE DOOR AND OPENING SCHEDULE

⊞ DOOR OPENING - SEE DOOR AND OPENING SCHEDULE

SIGNAGE LEGEND

Ⓐ ROOM ID SIGN, SEE DTL 6 (A20.1)

Ⓑ EXIT SIGN, SEE DTL 16 (A20.1)

Ⓒ ALS SIGN, SEE DTL 4 (A20.1)

Ⓓ OCCUPANCY LOAD SIGN, SEE DTL 8 (A20.1) U.N.O.

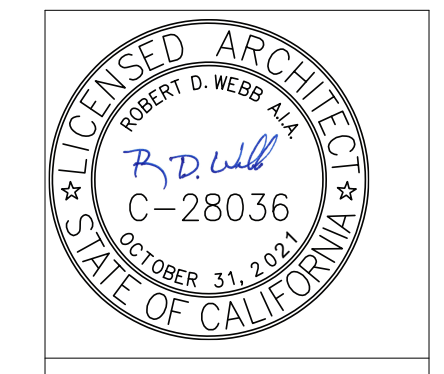
Ⓔ TOILET SIGN AT WALL, SEE DTL 2 (A20.1)

Ⓕ TOILET SIGN AT DOOR, SEE DTL 7A (A20.1)

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 ARCHITECTURE + ENGINEERING
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PROSPECT AVENUE ELEM SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

EXITING, SIGNAGE AND OPENING FLOOR PLAN

Drawn: RI
 Checked: RDW
 Date: OCT. 14, 2019
 Job: SSD-PA-03

A2.2

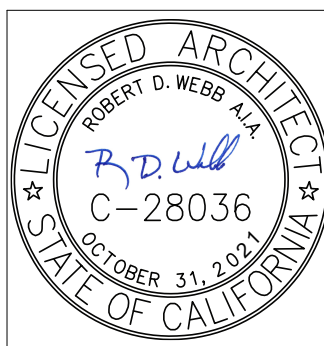
KEYNOTES

- 25 CASEWORK - SEE INT. ELEVATIONS
- 202 RAISED READING AREA- SEE ENLARGED PLAN
- 205 LIBRARY RECEPTION DESK - SEE ENLARGED PLAN
- 206 DISPLAY CABINET - SEE INTERIOR ELEVATIONS
- 207 ROOF ACCESS HATCH AND LADDER
- 208 MARKER BOARD- SEE INT. ELEVATIONS FOR SIZE
- 209 FUTURE SHELVING, OFOI CONTRACTOR TO PROVIDE BLOCKING FOR WALL MOUNTED UNITS
- 210 FUTURE TEACHING WALL- OFOI CONTRACTOR TO PROVIDE BLOCKING IN THIS CONTRACT
- 211 INTERIOR OPERABLE GLASS WALL, SEE DOOR AND OPENING SCHEDULES
- 212 DASHED LINE INDICATES SOFFIT OR CANOPY ABOVE
- 217 PROVIDE WALK OFF MAT, FLUSH WITH ADJACENT CARPET
- 235 (N) THRESHOLD, SEE DETAIL ON DRAWINGS
- 236 (N) CONCRETE WRAPPED COLUMN
- 237 (N) ROOF OVER FLOW DRAIN OUTLET, SEE DETAIL REFERENCED ON PLAN AND PLUMBING
- 238 (N) FIRE EXTINGUISHER, SEE DETAIL REFERENCED ON PLAN
- 251 WINDOW, SEE DOOR AND OPENING SCHEDULES
- 252 EXTERIOR OPERABLE GLASS WALLS WITH SWING DOOR, SEE DOOR AND OPENING SCHEDULES
- 253 MAIN CARPET COLOR SELECTION, SEE SPECS
- 254 ACCENT CARPET COLOR SELECTION 1, SEE SPECS

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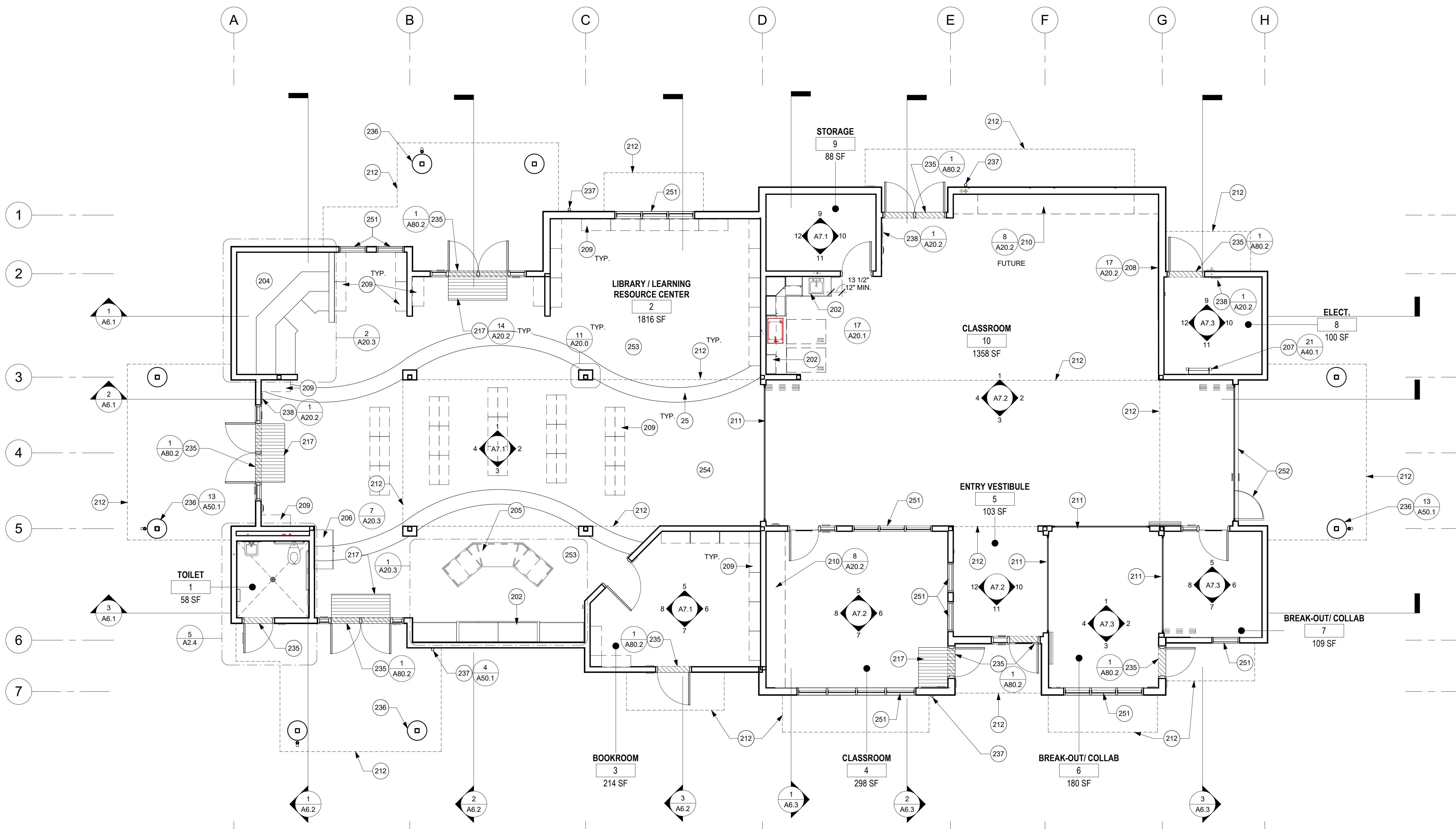


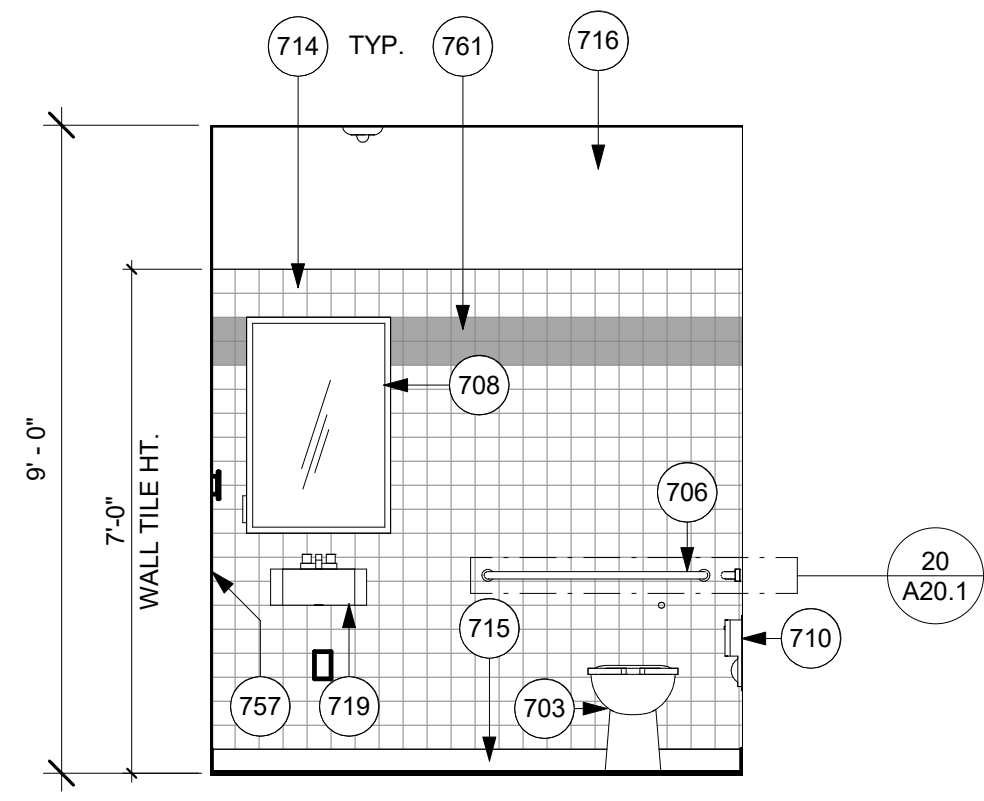
PROSPECT AVENUE ELEMENTARY SCHOOL
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 SANTEE SCHOOL DISTRICT

OVERALL FLOOR PLAN

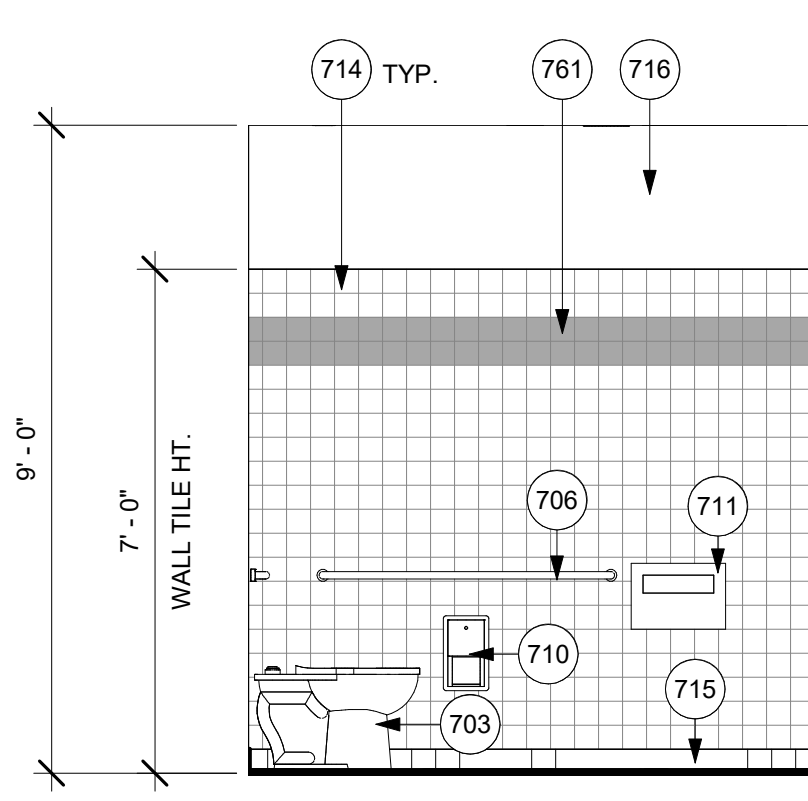
Drawn: RI
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 Date: OCT. 14, 2019
 Job: SSD-PA-03

A2.3

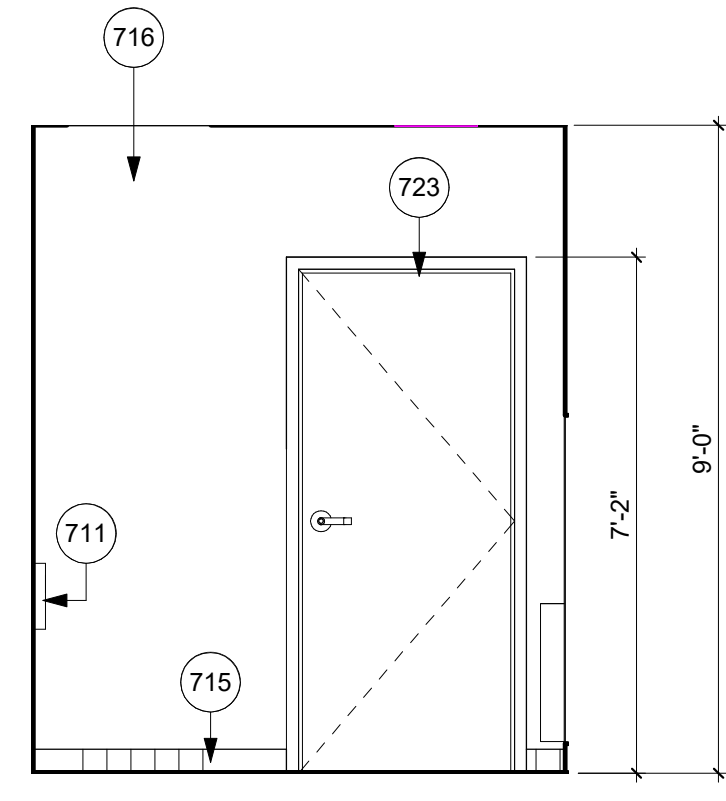




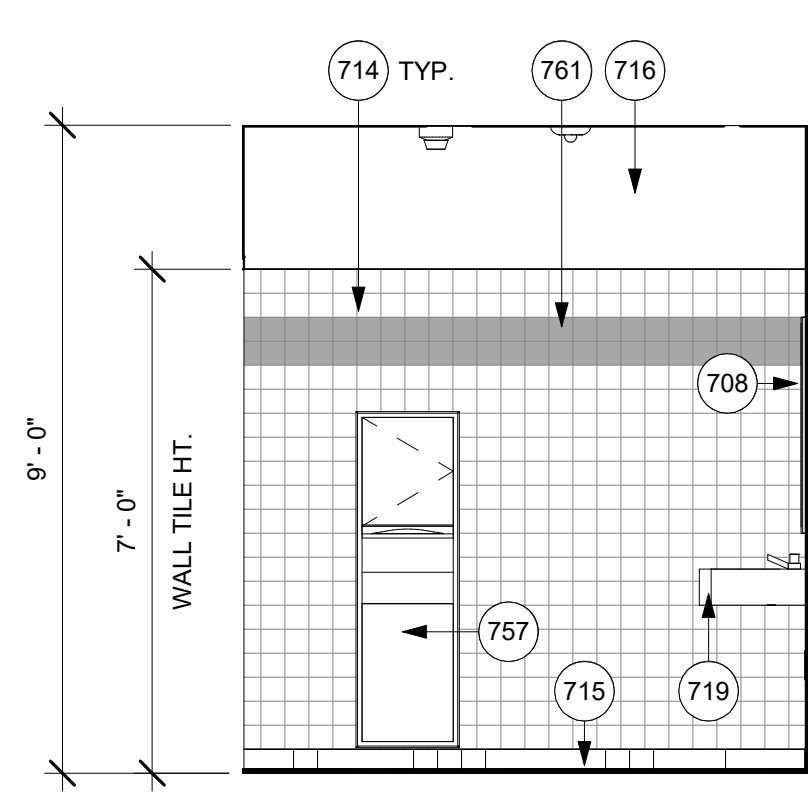
TOILET- NORTH 3/8" = 1'-0" 1



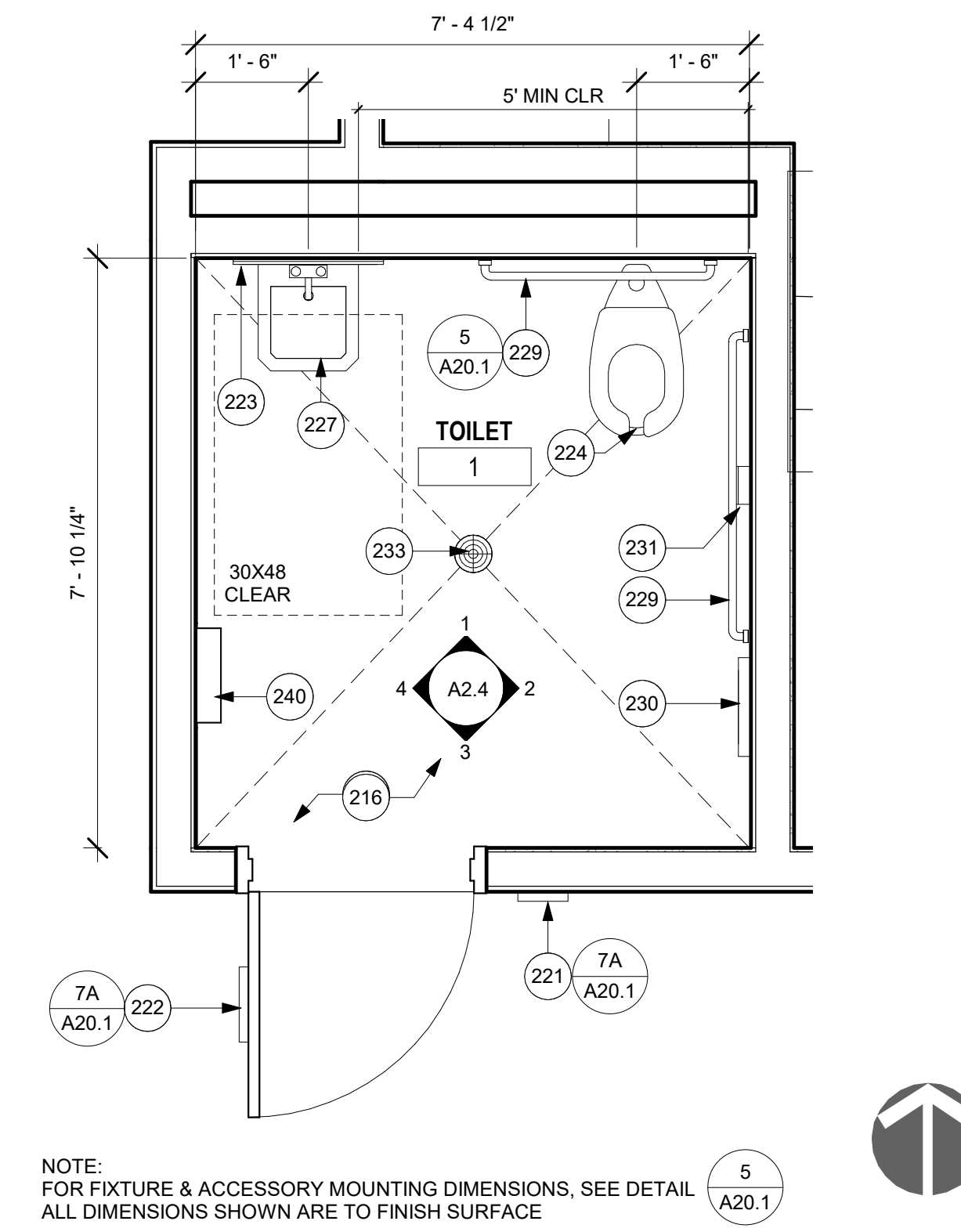
TOILET- EAST 3/8" = 1'-0" 2



TOILET- SOUTH 3/8" = 1'-0" 3



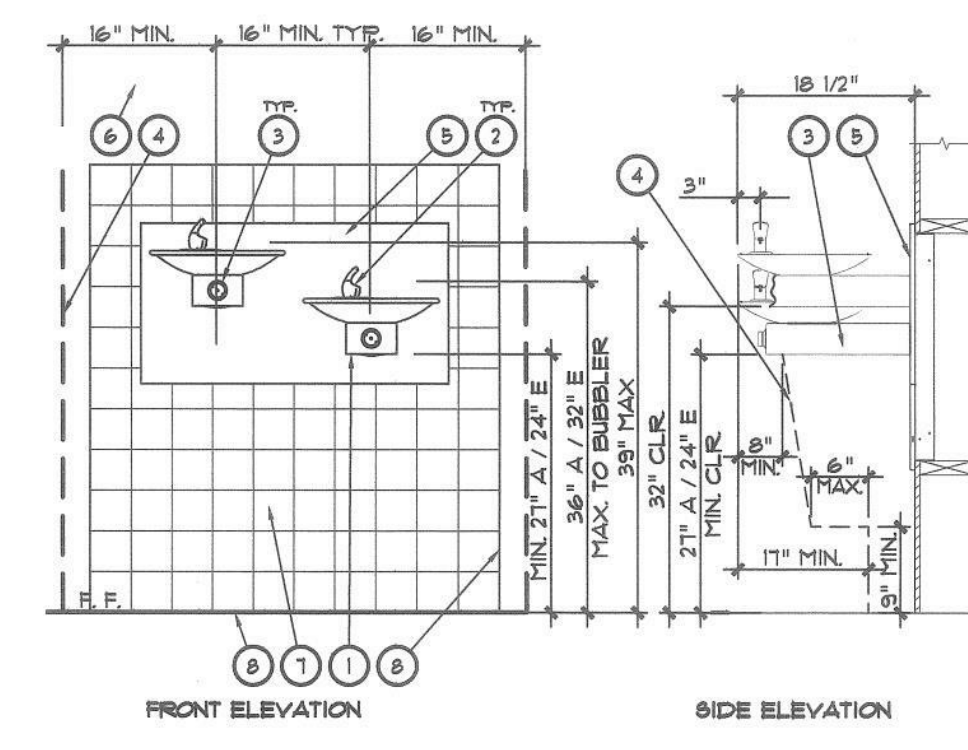
TOILET- WEST 3/8" = 1'-0" 4



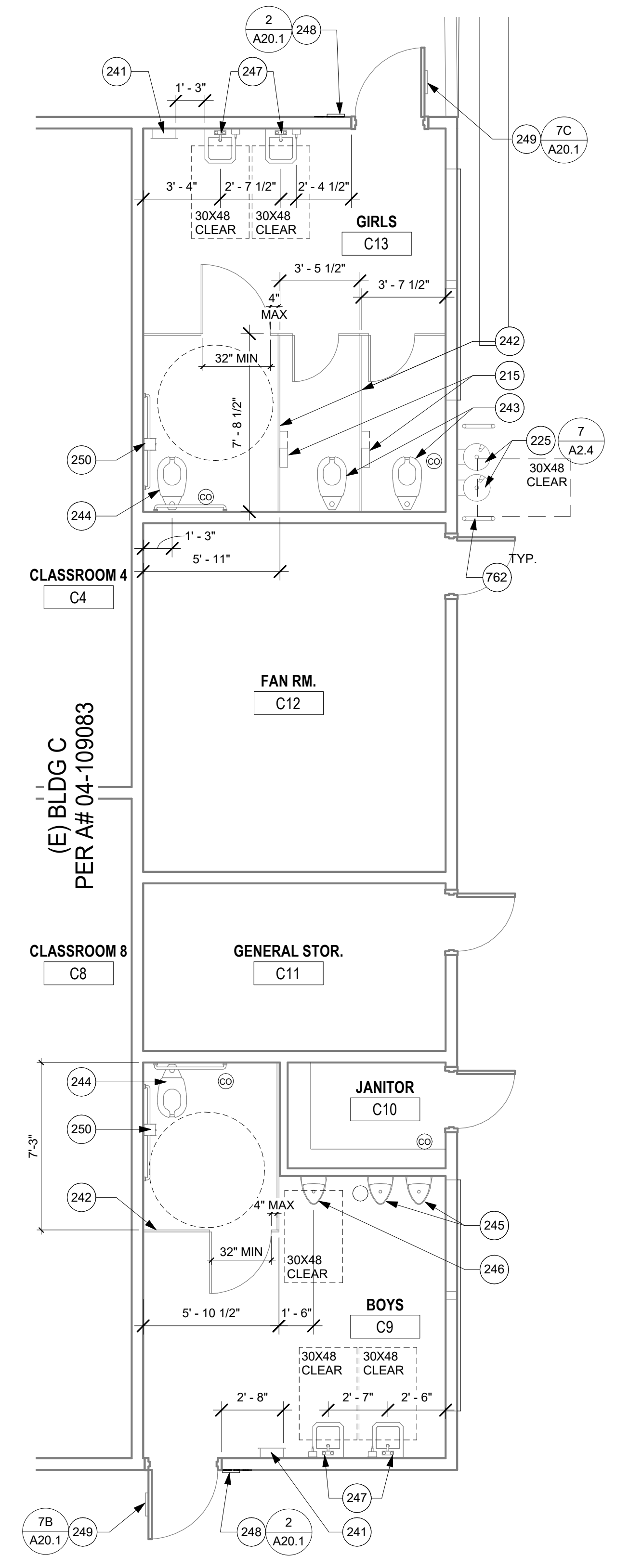
ENLARGED TOILET PLAN 1/2" = 1'-0" 5

KEYNOTES:
 1. 1/2" O.D. ACCESSIBLE DRINKING FOUNTAIN PER PLUMBING DRAWINGS.
 2. BUBBLER LOCATED WITHIN 3" MAX. AT ROUND BOWL.
 3. PUSH BUTTON OPERATOR NOT REQUIRING A FORCE GREATER THAN 5 LBS.
 4. DASHED LINE INDICATES AREA OF MAXIMUM ENCROACHMENT TO ALLOW FOR ACCESSIBILITY.
 5. PROVIDE MOUNTING PLATE AND STAINLESS STEEL FINISH PLATE COVER PER MANUFACTURER.
 6. N/A
 7. N/A
 8. PROVIDE FULL PERIMETER SEALANT AT TILE INTERFACE TO WOOD SIDING AND CONCRETE WALKWAY.

GENERAL NOTES:
 1. THIS DETAIL IS INTENDED TO ILLUSTRATE DIMENSIONS AND BASIC ELEMENTS. ACTUAL FIGURES MAY BE SINGLE OR COMBINATION UNITS AND MAY VARY FROM THOSE SHOWN. REFERENCE PLUMBING DRAWINGS FOR DRINKING FOUNTAIN YES AND LOCATIONS.
 2. REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
 THIS DETAIL PROVIDES BASIC DIMENSIONAL REQUIREMENTS FOR AN ACCESSIBLE DRINKING FOUNTAIN. ALL OTHER REQUIREMENTS OF TITLE 24, SECTION 11B-002 SHALL BE MET.



ACCESSIBLE D.F. ELEVATION PER 04-109083 1/8" = 1'-0" 7



NOTE:
 1) U.N.O., ALL FIXTURES & ACCESSORIES SHOWN ARE COMPLIANT W/ CBC 2016 & PER DETAIL DIMENSIONS ARE AGES 5-8.
 2) ALL DIMENSIONS ARE TO FINISH SURFACE

(E) B/G RESTROOM PER 04-109083 1/4" = 1'-0" 6

KEYNOTES

- 215 (E) TOILET TISSUE DISPENSER TO REMAIN
- 216 CERAMIC FLOOR TILE
- 221 TOILET ROOM WALL SIGN, SEE DETAIL ON DRAWINGS
- 222 TOILET ROOM DOOR SIGN, SEE DETAIL ON DRAWINGS
- 223 MIRROR
- 224 ACCESSIBLE TOILET, SEE PLUMBING
- 225 (E) DRINKING FOUNTAIN TO REMAIN, SEE DETAIL REF'D ON PLAN
- 227 ACCESSIBLE LAVATORY- SEE PLUMBING
- 229 GRAB BAR
- 230 SEAT COVER DISPENSER
- 231 RECESSED TOILET TISSUE DISPENSER
- 233 FLOOR DRAIN, SLOPE FLOOR TOWARDS DRAIN 1% MAX
- 240 (N) PAPER TOWEL AND TRASH DISPENSER COMBO UNIT, NOT TO EXCEED 4" PROJECTION FROM WALL
- 241 (E) HAND DRYER TO REMAIN, NOT TO EXCEED 4" MAX. PROJECTION
- 242 (E) TOILET PARTITION TO REMAIN
- 243 (E) TOILET TO REMAIN
- 244 (E) ACCESSIBLE TOILET TO REMAIN
- 245 (E) URINAL TO REMAIN
- 246 (E) ACCESSIBLE URINAL TO REMAIN
- 247 (E) ACCESSIBLE LAVATORIES TO REMAIN
- 248 (E) WALL SIGN TO BE REMOVED & REPLACED W/ (N) WALL SIGN PER DETAIL REFERENCED ON PLAN. TOUCH UP WALL FINISH & PAINT WHERE SIGN WAS REMOVED
- 249 (E) DOOR SIGN TO BE REMOVED & REPLACED W/ (N) DOOR SIGN PER DETAIL REFERENCED ON PLAN. TOUCH UP DOOR FINISH & PAINT WHERE SIGN WAS REMOVED
- 250 REMOVE & REPLACE TOILET TISSUE DISPENSER. PATCH WALL TILE AS NECESSARY
- 703 ACCESSIBLE TOILET
- 706 GRAB BAR
- 708 MIRROR
- 710 RECESSED TOILET TISSUE DISPENSER
- 711 SEAT COVER DISPENSER
- 714 TILE AND TILE BACKING
- 715 CERAMIC TILE COVERED BASE
- 716 WALL TO RECEIVE TEXTURE AND PAINT
- 719 ACCESSIBLE LAVATORY
- 723 HOLLOW METAL DOOR FRAME, SEE DOOR/WINDOW SCHEDULES
- 757 PAPER TOWEL AND TRASH DISPENSER COMBO UNIT
- 761 ACCENT TILE
- 762 (E) HANDRAIL TO REMAIN

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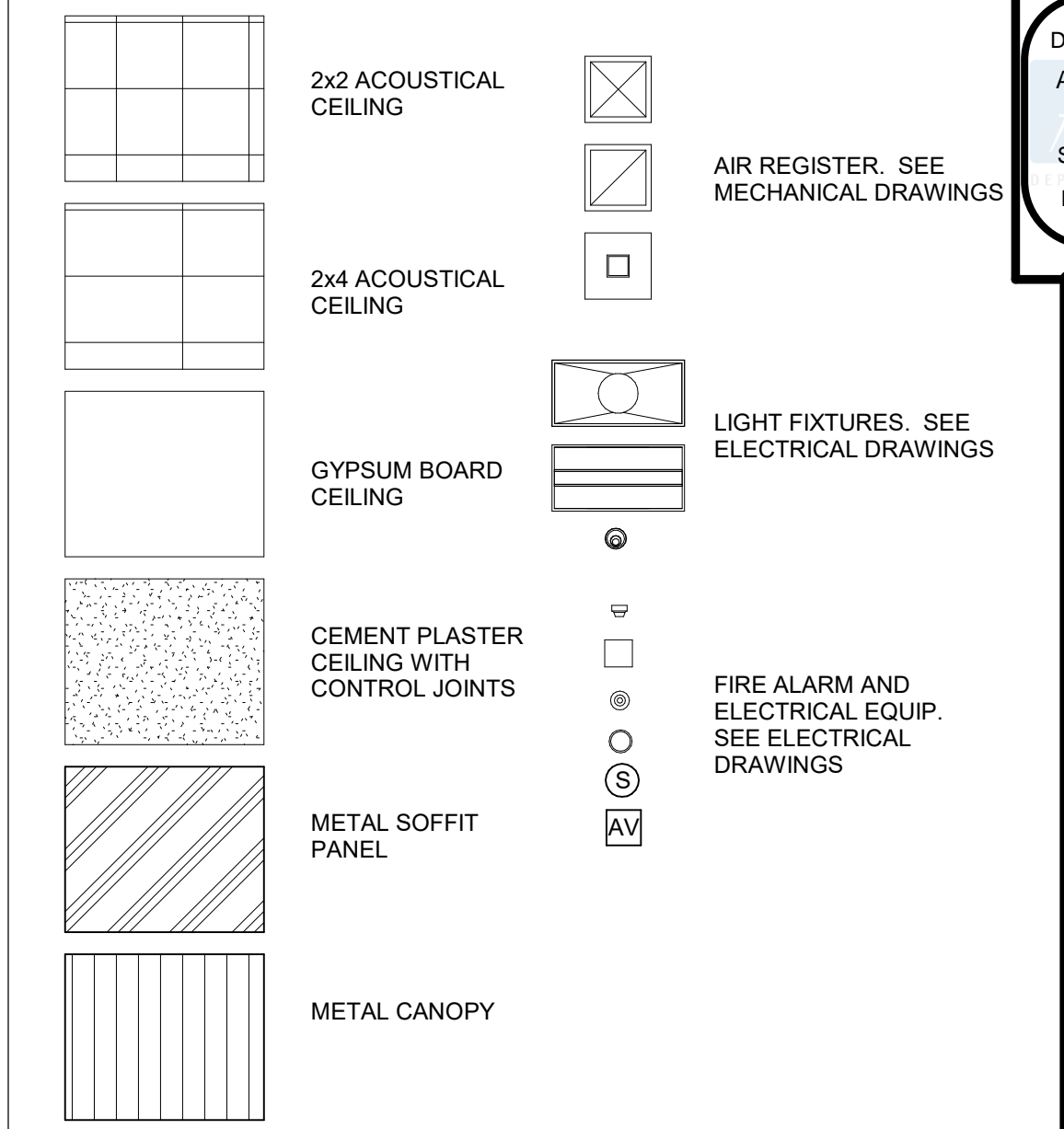
REGISTERED ARCHITECT
 ROBERT D. WEBB
 C-28036
 EXPIRES 31.1.2014
 STATE OF CALIFORNIA

PROSPECT AVENUE ELEM SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

ENLARGED TOILET PLAN

Drawn: RI
 Checked: RDW
 Date: OCT. 14, 2019
 Job: SSD-PA-03

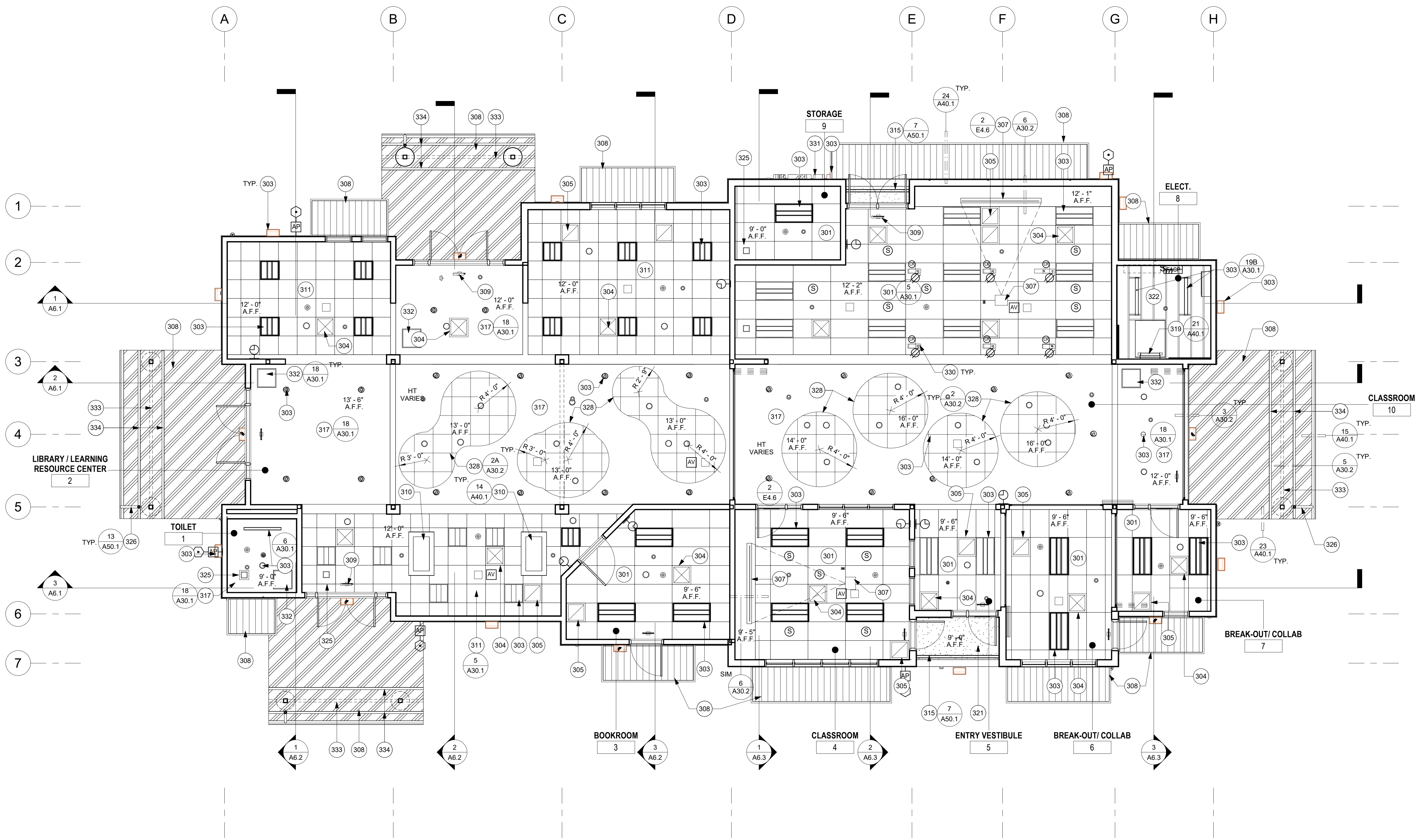
CEILING LEGEND



NOTE:
 1. ALL WALLS EXTEND TO UNDERSIDE OF ROOF DECK UNLESS NOTED OTHERWISE ON THIS SHEET
 2. FOR CEILING DETAILS, SEE SHEET A30.1

KEYNOTES

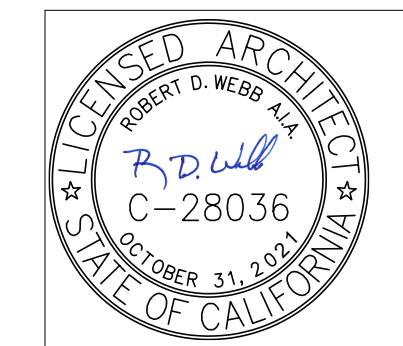
- 301 PROVIDE 24" X 48" HEAVY DUTY CLASSIFICATION ACOUSTIC CEILING TILE SUSPENSION SYSTEM AND CEILING TILES IN THIS AREA
- 303 PROVIDE LIGHT FIXTURE TYPICAL. SEE ELECTRICAL DRAWINGS
- 304 PROVIDE SUPPLY GRILLE TYPICAL. SEE MECHANICAL DRAWINGS
- 305 PROVIDE RETURN REGISTER TYPICAL. SEE MECHANICAL DRAWINGS
- 307 PROVIDE CEILING-MOUNTED PROJECTOR. SEE ELECTRICAL DRAWINGS
- 308 INDICATED ROOF OR CANOPY ABOVE
- 309 PROVIDE LIGHTED EXIT SIGNAGE. SEE ELECTRICAL DRAWINGS
- 310 2' X 4' SKYLIGHT. SEE TYP. DETAIL REF. ON PLAN AND WALL SECTIONS
- 311 PROVIDE 24" X 24" ACOUSTICAL CEILING TILE SUSPENSION SYSTEM AND CEILING TILES IN THIS AREA
- 315 PLASTER VENT SCREED. SEE TYP. DETAIL REF. ON PLAN
- 317 5/8" GYP. BD. CEILING AT BOTTOM OF JOIST IN THIS AREA
- 319 PROVIDE ROOF ACCESS LADDER AND HATCH
- 321 PROVIDE EXTERIOR PLASTER SOFFIT AND FRAMING
- 322 NO CEILING - EXPOSED JOISTS
- 325 PROVIDE TRANSFER GRILLE TYPICAL. SEE MECHANICAL DRAWINGS
- 326 PROVIDE DOWNSPOUT ALONG CONCRETE COLUMN. SEE DETAIL REF. ON PLAN
- 328 FLOATING ACOUSTIC CEILING TILE CLOUD SYSTEM WITH 4" PERIMETER TRIM, PER SPECS. PROVIDE HORIZONTAL SEISMIC CABLE BRACING AND VERTICAL STRUTS PER DTL. REFD ON PLAN. WIRED PERIMETER CHANNEL PER SPECIFICATIONS
- 330 PROVIDE CEILING-MOUNTED POWER CHORD REEL. SEE ELECTRICAL DRAWINGS
- 331 PROVIDE 18" ALUMINUM SIGN TO READ "LEARNING RESOURCE CENTER". SEE ELEVATION DRAWINGS
- 332 24" X 24" CEILING ACCESS PANEL, PER DTL REFD ON PLAN
- 333 EXPOSED BEAM PER STRUCTURAL. PREMIUM GRADE FINISH. PROVIDE STAIN AND SEALER.
- 334 SHEET METAL VENT SCREED, TYP.



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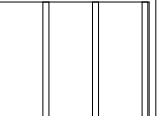
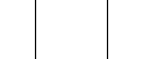


PROSPECT AVENUE ELEM SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

REFLECTED CEILING PLAN
 Drawn: RI
 Checked: RDW
 Date: OCT. 14, 2019
 Job: SSD-PA-03

A3.1

ROOF LEGEND

-  TPO ROOFING
-  24 GA SLOPED VERTICAL SEAM METAL ROOFING WITH PANEL CLIPS LOCATED 20" O.C., PER ESR #2385 OR EQUAL
-  2 X 2 ROOF WALKWAY PADS

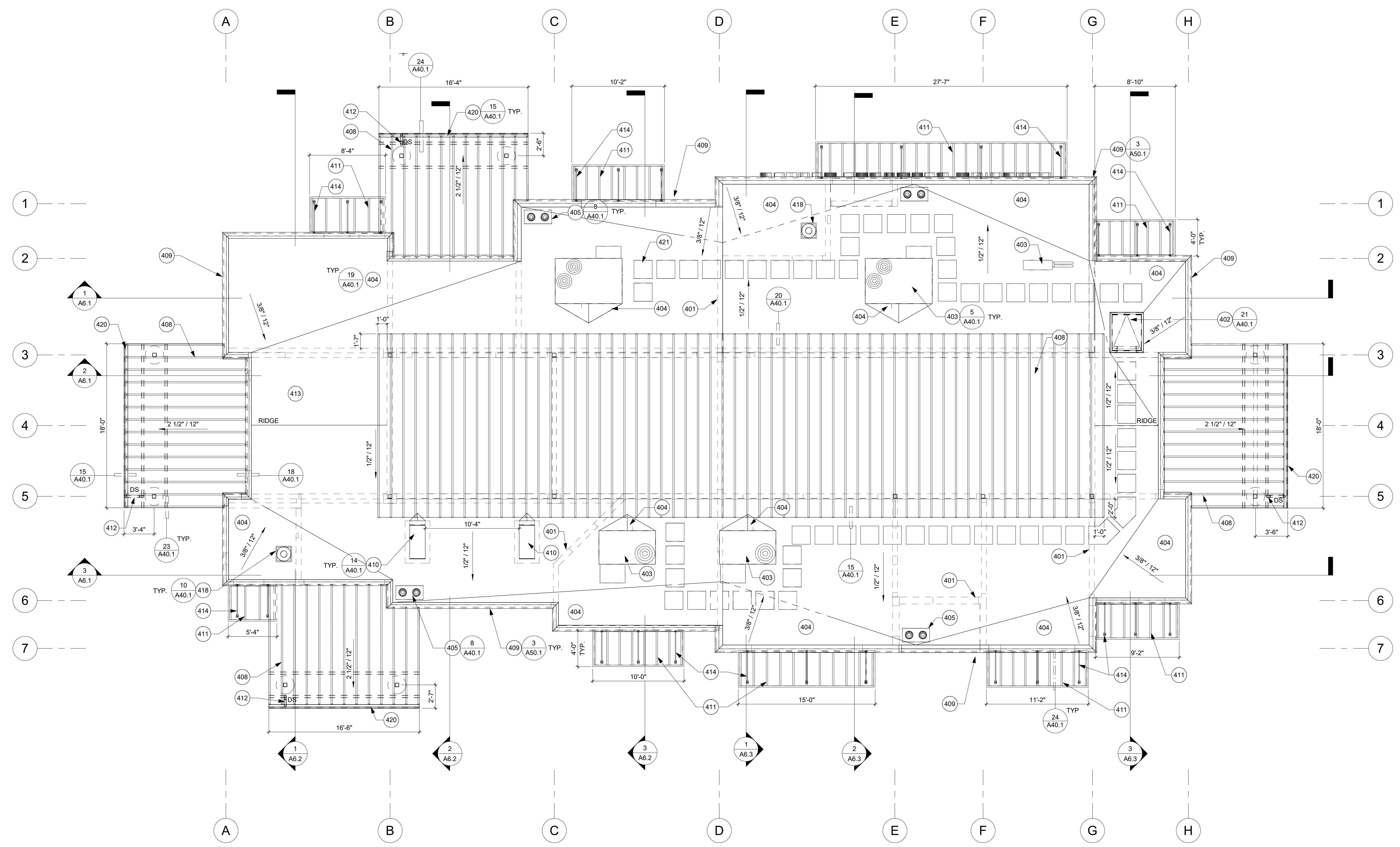
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KEYNOTES

- 401 DASHED LINES INDICATE WALL BELOW, TYP.
- 402 PROVIDE ROOF HATCH, SEE TYP. DETAIL REF. ON PLAN
- 403 PROVIDE / INSTALL NEW MECHANICAL UNIT. SEE MECHANICAL DRAWINGS, SEE TYP. ARCH. DETAIL REF. ON PLAN
- 404 PROVIDE ROOF CRICKET, TYP.
- 405 PROVIDE ROOF DRAIN AND OVERFLOW DRAIN, SEE PLUMBING DRAWINGS, SEE TYP. ARCH. DETAIL REF. ON PLAN
- 408 PROVIDE CLASS A METAL ROOFING OVER MEMBRANE - PER SPECIFICATIONS
- 409 PROVIDE PREFINISHED METAL PARAPET CAP, SEE TYP. DETAIL REF. ON PLAN
- 410 PROVIDE / INSTALL 2' X 4' SKYLIGHT, SEE TYP. DETAIL REF. ON PLAN
- 411 PROVIDE METAL CANOPY STRUCTURE, SEE WALL SECTIONS AND STRUCTURAL DRAWINGS FOR DETAIL.
- 412 PROVIDE DOWNSPOUT AT LOCATION INDICATED AS 'DS'
- 413 PROVIDE CLASS A SINGLE PLY ROOFING - PER SPECIFICATIONS
- 414 CANOPY BRACE LOCATION - SEE TYP. DETAIL REF. ON PLAN
- 418 PROVIDE EXHAUST FAN, SEE MECHANICAL DRAWINGS
- 420 PROVIDE GUTTER AND DOWNSPOUT, SEE PLUMBING DRAWINGS
- 421 PROVIDE WALKWAY PADS, SEE SPECS FOR ADDITIONAL INFORMATION. PLACE PADS 1' MIN. - 6' MAX. APART FOR PROPER DRAINAGE U.N.O. BY MANUFACTURER

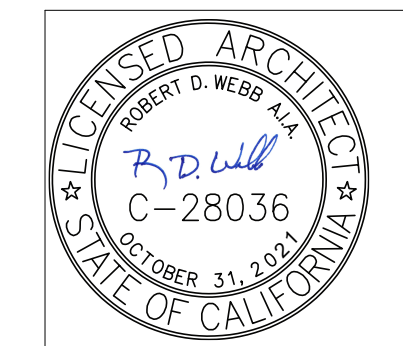
GENERAL NOTES

1. ALL ROOFING SHALL MEET CLASS 'A' RATING
2. ALL ROOF PENETRATIONS ARE NOT SHOWN ON THIS PLAN, REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS
3. SEE WALL SECTION FOR ROOF FLASHING DETAILS
4. NOT ALL LOCATIONS OF TYPICAL DETAILS ARE SHOWN - REFER TO ROOF DETAIL SHEET FOR TYPICAL DETAILS
5. PROVIDE 4" CANT STRIPS AT ALL VERTICAL SURFACES, TYP.



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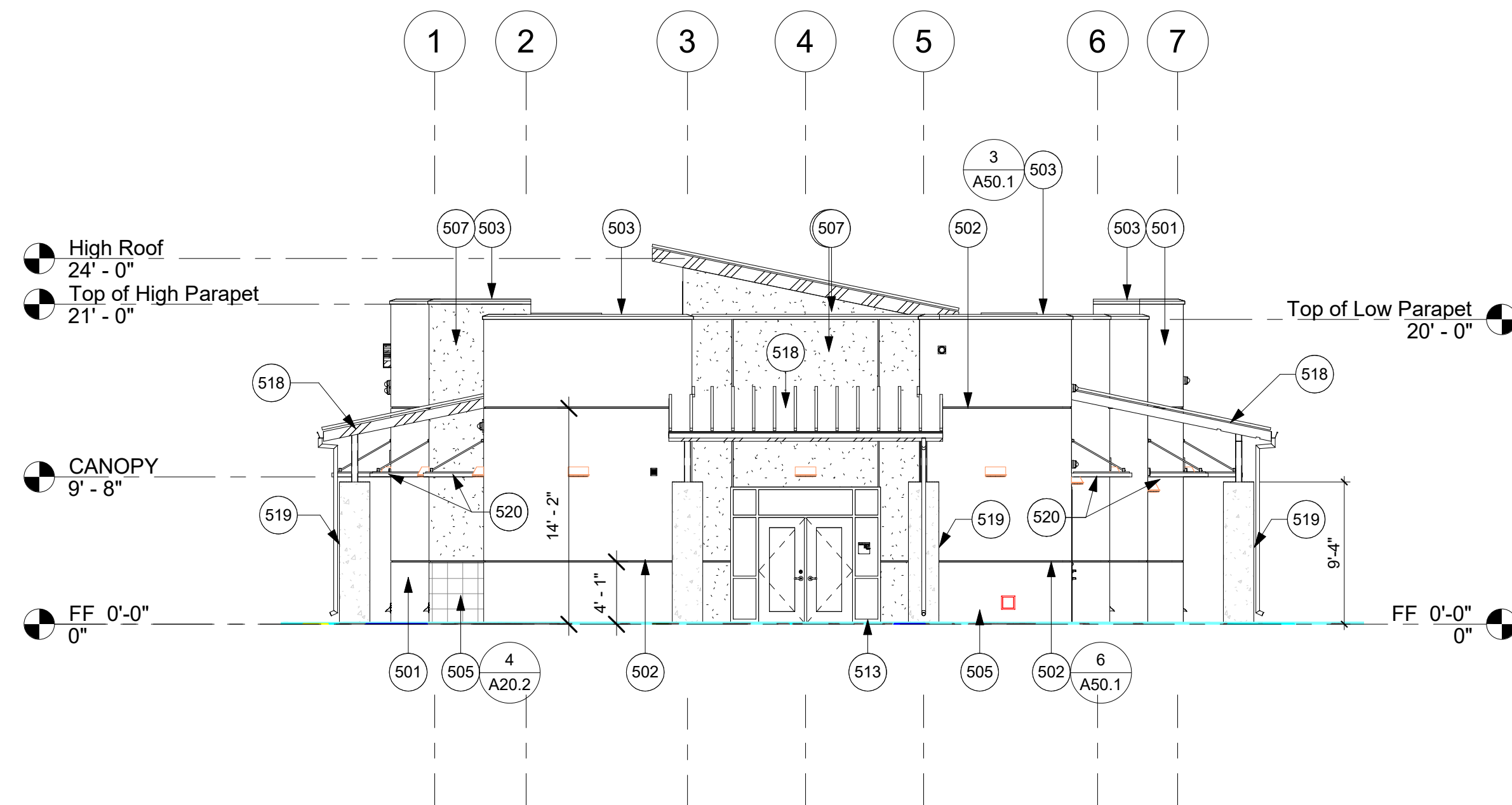
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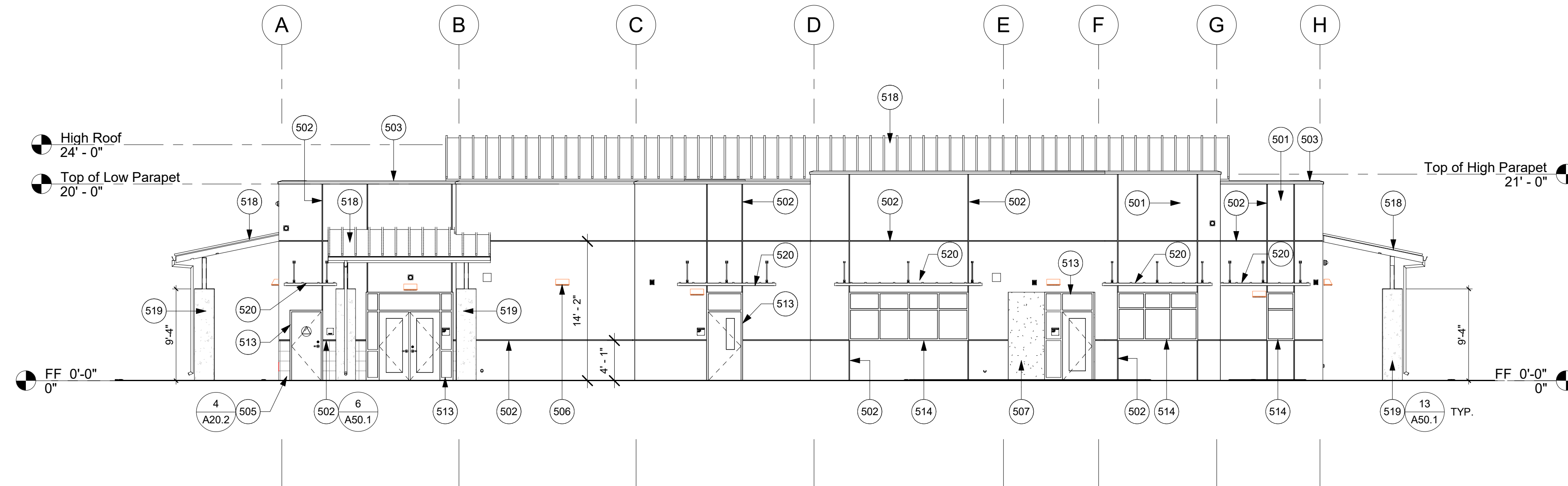
PROSPECT AVENUE ELEMENTARY SCHOOL
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 SANTEE SCHOOL DISTRICT

ROOF PLAN
 Drawn: RI
 Checked: RDW
 Date: OCT. 14, 2019
 Job: SSD-PA-03

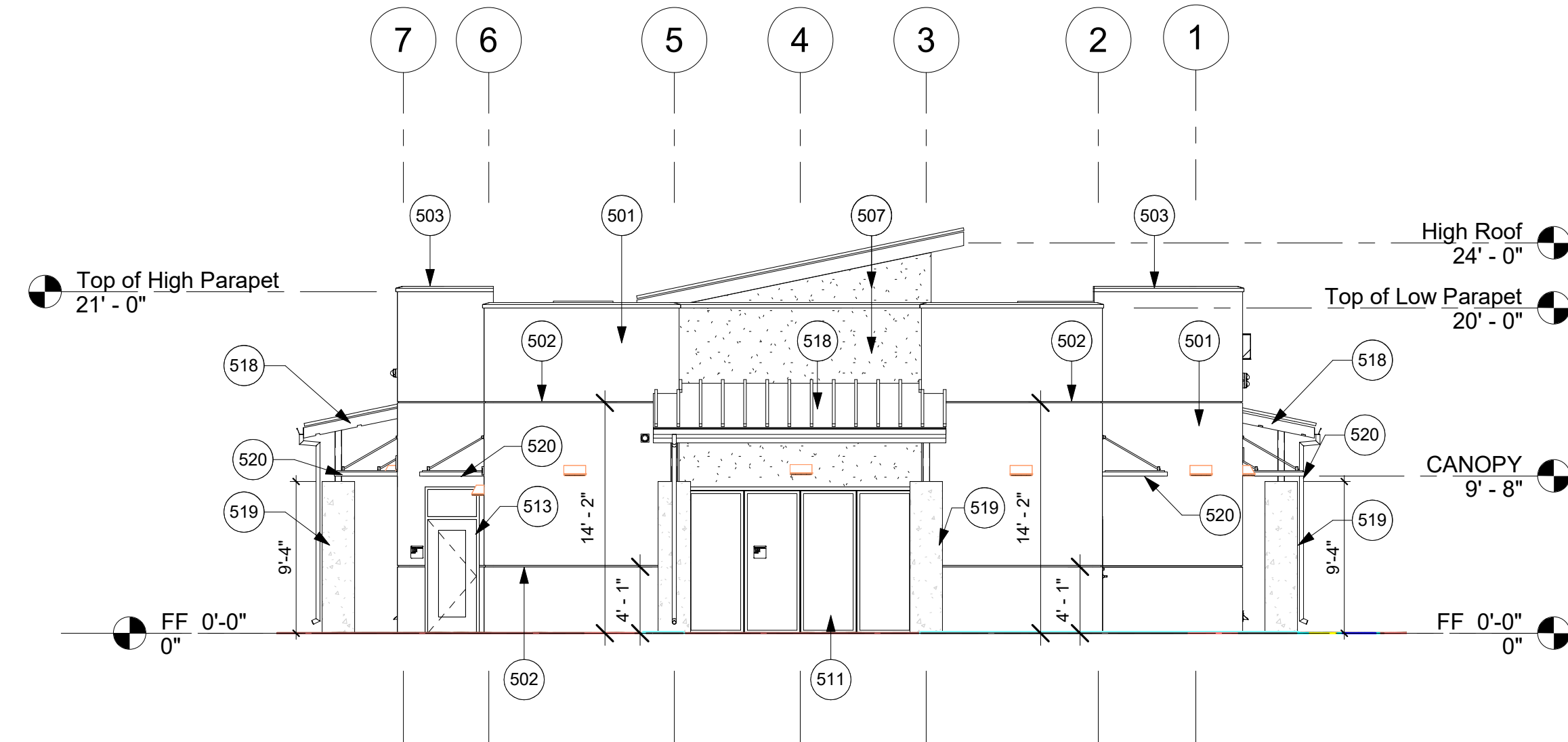
A4.1



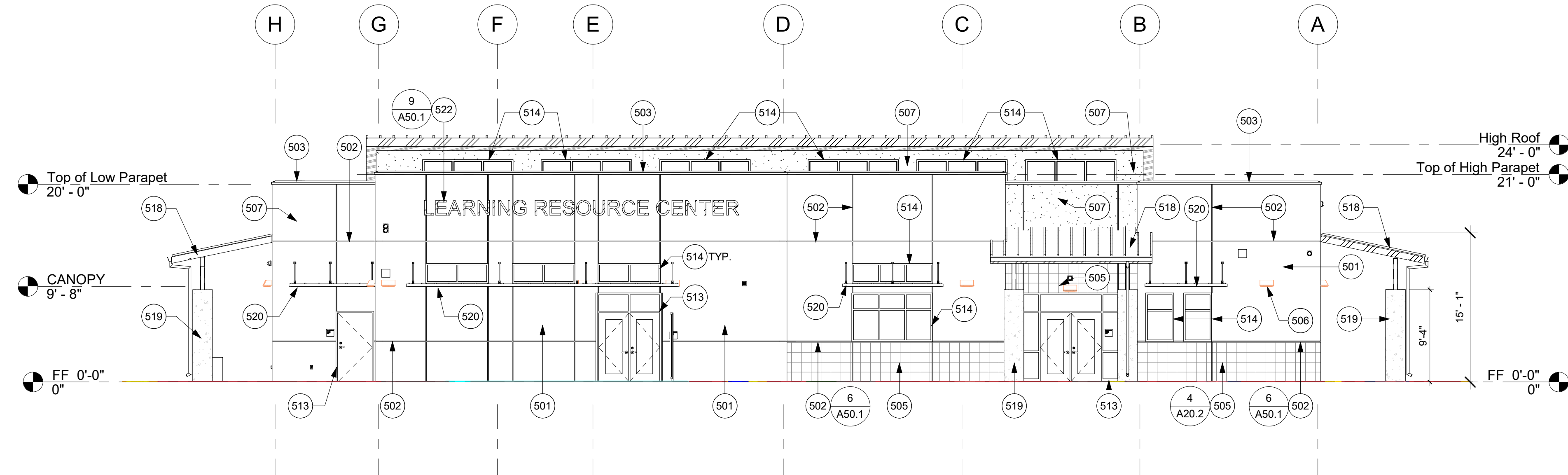
WEST ELEVATION 1/8" = 1'-0" 1



SOUTH ELEVATION 1/8" = 1'-0" 2



EAST ELEVATION 1/8" = 1'-0" 3



NORTH ELEVATION 1/8" = 1'-0" 4

BUILDING ELEVATION LEGEND

- MAIN PLASTER- TRUFFLE SP147
- ACCENT PLASTER- QUICKSAND DEC754
- ACCENT SLATE TILE, PER SPEC
- STANDING SEAM METAL ROOFING

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BUILDING KEYNOTES

- 501 7/8" EXT. CEMENT PLASTER
- 502 1" ALUMINUM REVEAL
- 503 PREFINISHED METAL PARAPET CAP
- 505 TILE FINISH- THICKNESS NOT TO EXCEED 5/8"
- 506 EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL
- 507 7/8" EXTERIOR CEMENT PLASTER TO RECEIVE ACCENT COLOR
- 511 EXTERIOR OPERABLE GLASS WALL
- 513 HOLLOW METAL DOOR FRAME - SEE DOOR/WINDOW SCHEDULE
- 514 HOLLOW METAL WINDOW FRAME - SEE DOOR/WINDOW SCHEDULES
- 518 SLOPED STANDING SEAM METAL CANOPY
- 519 CONCRETE WRAPPED METAL COLUMNS - SEE STRUCTURAL DRAWINGS
- 520 METAL CANOPY & BRACING - SEE STRUCTURAL DRAWINGS
- 522 18" CAST ALUMINUM LETTERS, STUD MOUNTED W/ QUICK DRY CEMENT, TO READ "LEARNING RESOURCE CENTER" - CENTER OF WALL AT ELEVATIONS SHOWN - SEE SPECS

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REGISTERED ARCHITECT
 ROBERT D. WEBB
 C-28036
 EXPIRES 31.12.2014
 STATE OF CALIFORNIA

PROSPECT AVENUE ELEM SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

BUILDING ELEVATIONS

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OCT. 14, 2019
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SECTION KEYNOTES

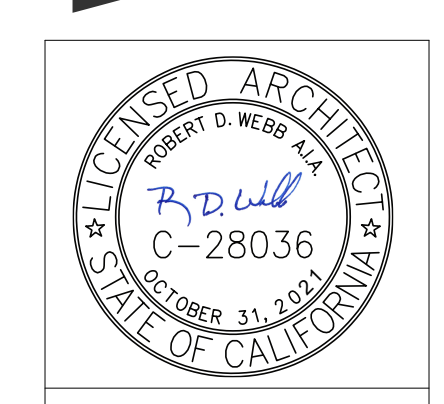
- 601 TPO ROOFING MATERIAL
- 602 CRICKET
- 603 DOOR / WINDOW FRAME - SEE SCHEDULE
- 604 CEILING, SEE SCHEDULE
- 605 ROOF MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
- 606 LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- 610 FLOATING CEILING CLOUDS
- 611 SKYLIGHT
- 615 RAISED READING STEPS
- 623 SLOPED STANDING SEAM METAL CANOPY
- 626 SLOPED STANDING SEAM METAL ROOF
- 627 SIDE WALL REGISTERS, SEE MECHANICAL DRAWINGS
- 629 PROVIDE LIGHTED EXIT SIGNAGE, SEE ELECTRICAL DRAWINGS
- 630 ACOUSTIC WALL PANEL
- 631 TACKABLE WALL PANEL
- 633 WOOD WALL CAP, PREMIUM GRADE FINISH. PROVIDE STAIN AND SEALER.
- 636 EXPOSED GLB, FINISH GRADE: STAINED

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Consultant
Engineer

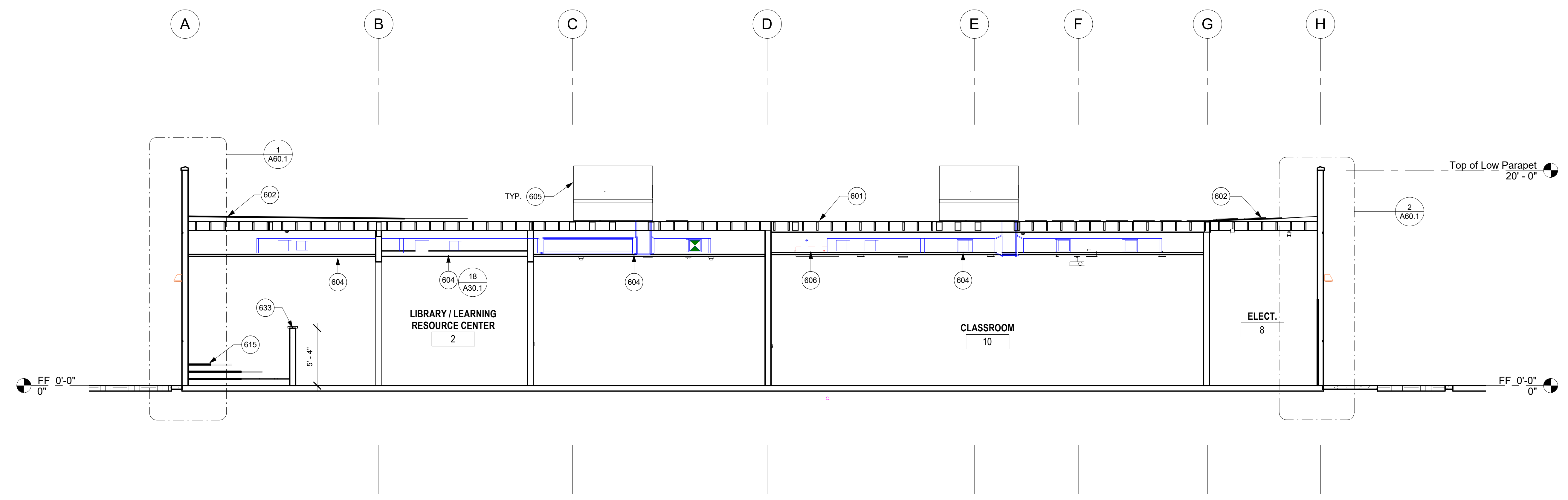
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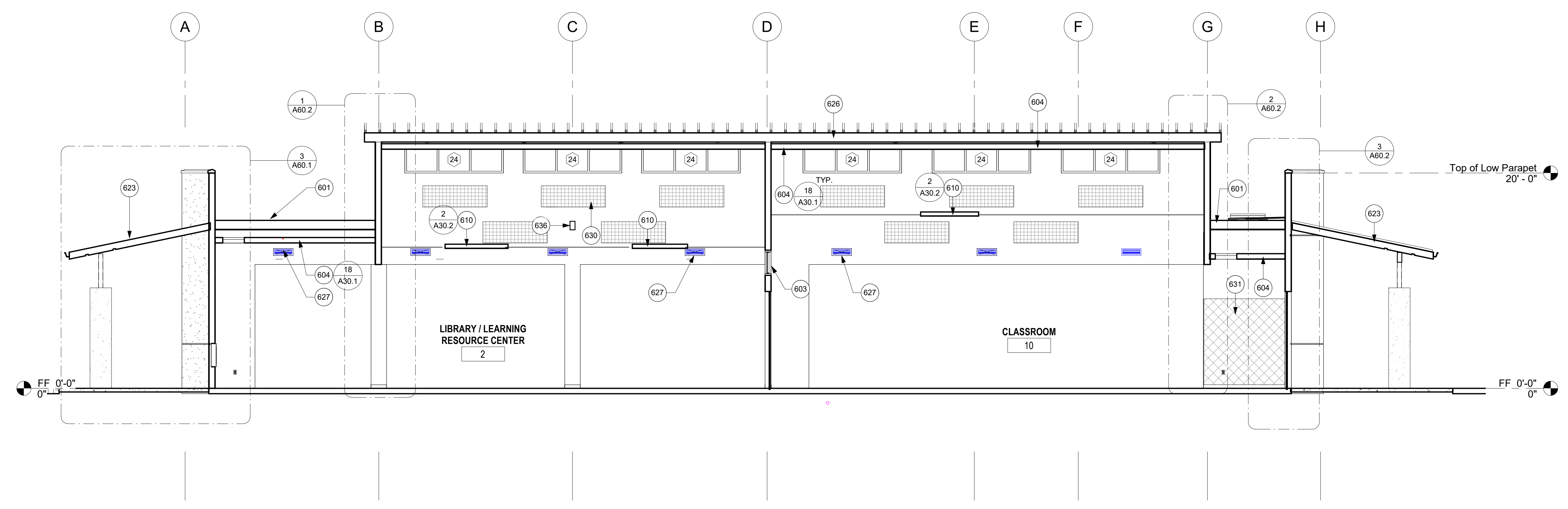
BUILDING SECTIONS
 PROSPECT AVENUE ELEM SCHOOL
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 SANTEE SCHOOL DISTRICT

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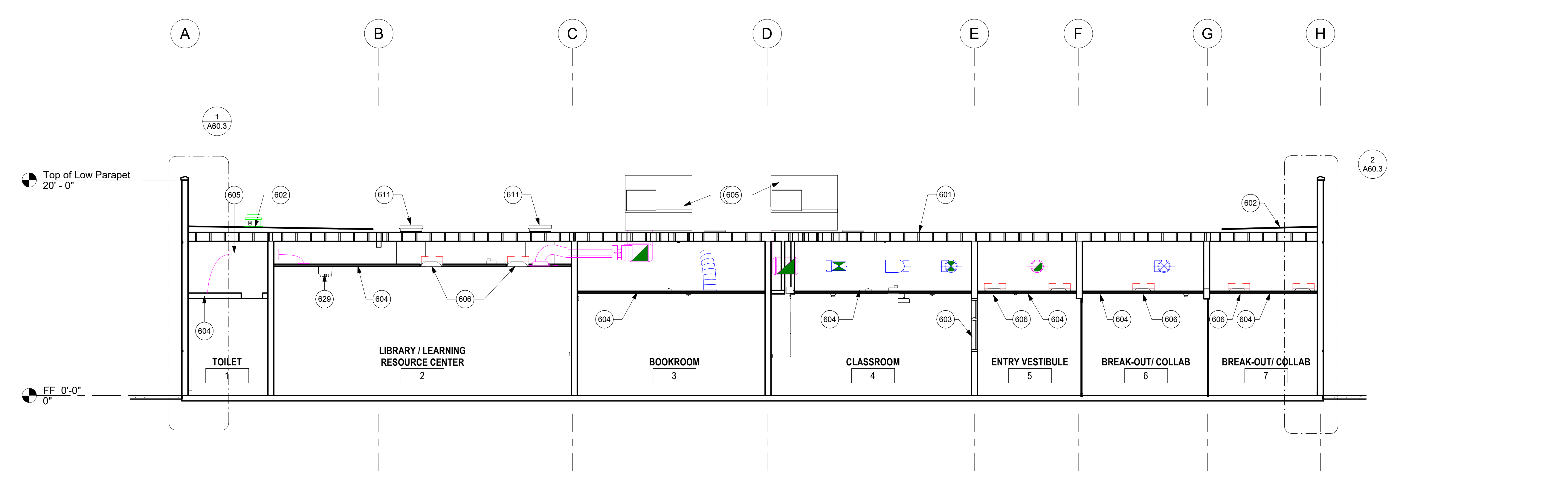
A6.1



Section 1 3/16" = 1'-0" 1



Section 2 3/16" = 1'-0" 2

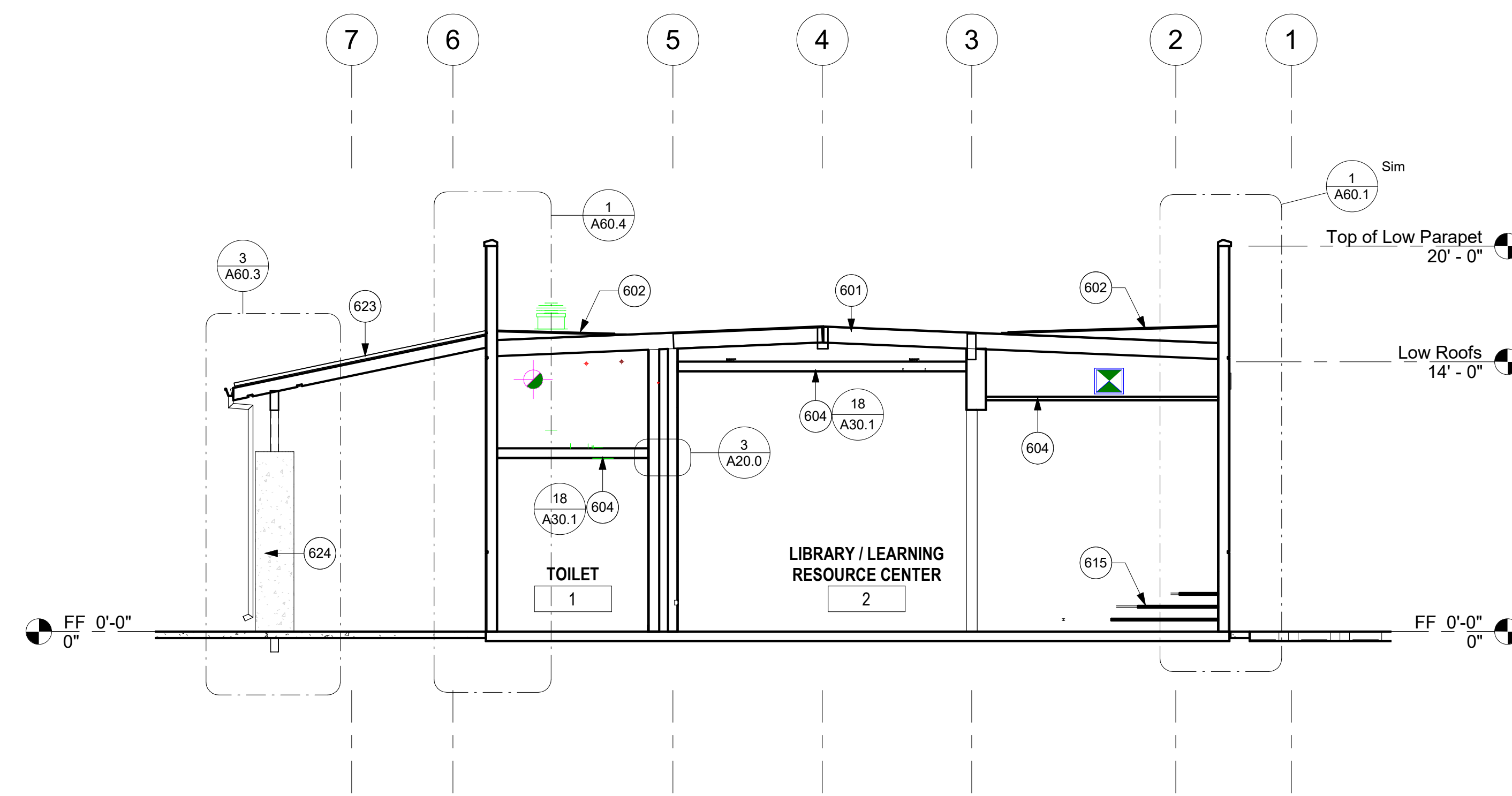


Section 3 3/16" = 1'-0" 3

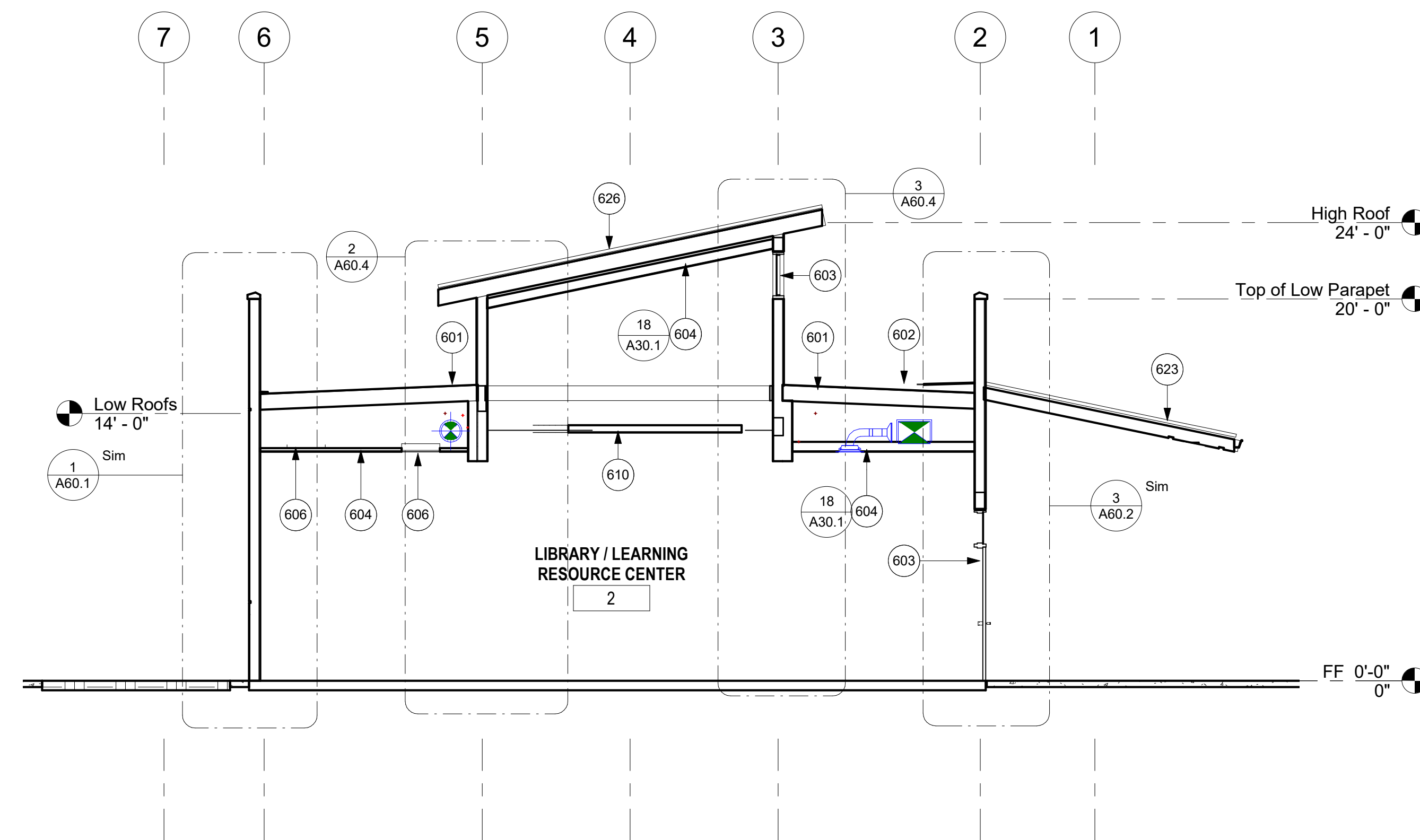
SECTION KEYNOTES

- 601 TPO ROOFING MATERIAL
- 602 CRICKET
- 603 DOOR / WINDOW FRAME - SEE SCHEDULE
- 604 CEILING, SEE SCHEDULE
- 605 ROOF MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
- 606 LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- 610 FLOATING CEILING CLOUDS
- 615 RAISED READING STEPS
- 623 SLOPED STANDING SEAM METAL CANOPY
- 624 CONCRETE WRAPPED METAL COLUMNS - SEE STRUCTURAL DRAWINGS
- 625 METAL CANOPY & BRACING - SEE STRUCTURAL DRAWINGS
- 626 SLOPED STANDING SEAM METAL ROOF
- 636 EXPOSED G.L.B. FINISH GRADE, STAINED

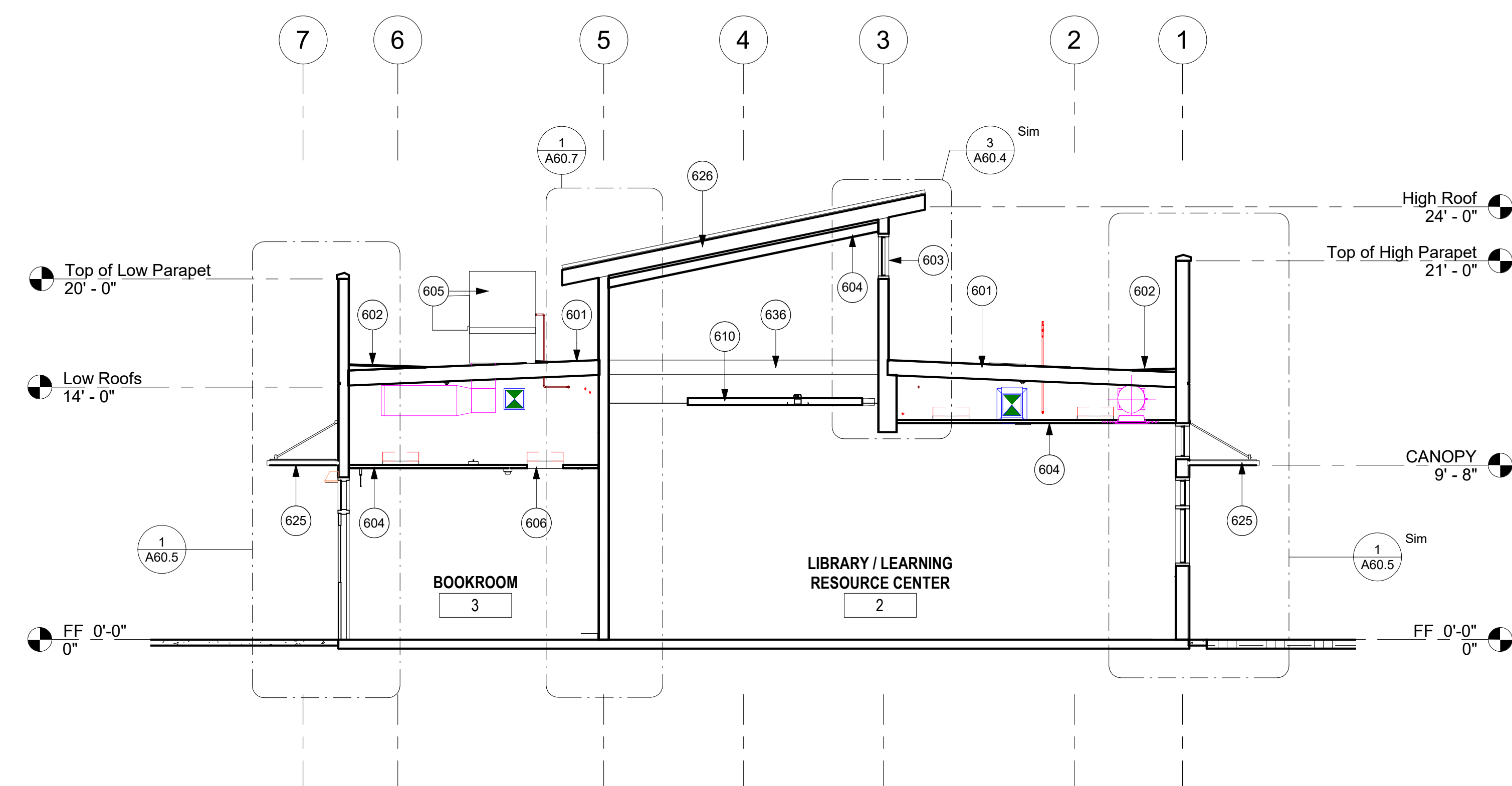
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Section 4 3/16" = 1'-0" 1



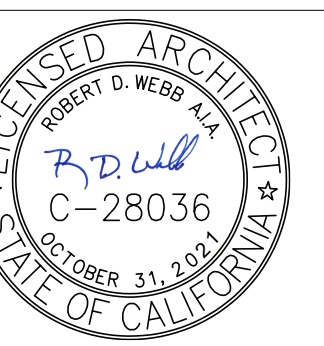
Section 5 3/16" = 1'-0" 2



Section 6 3/16" = 1'-0" 3

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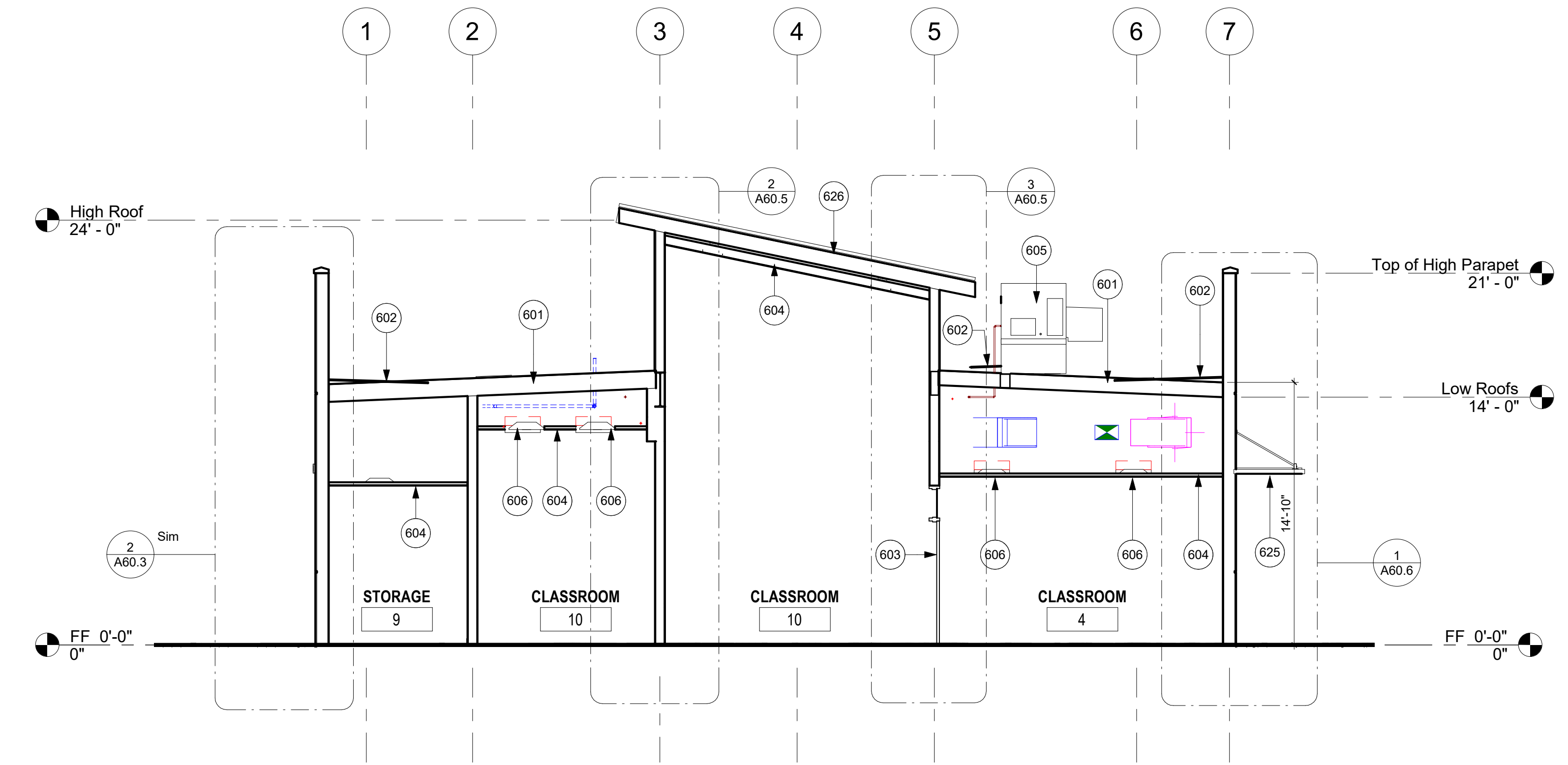
PROSPECT AVENUE ELEM SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

BUILDING SECTIONS
 Drawn: RI
 Checked: RDW
 Date: OCT. 14, 2019
 Job: SSD-PA-03

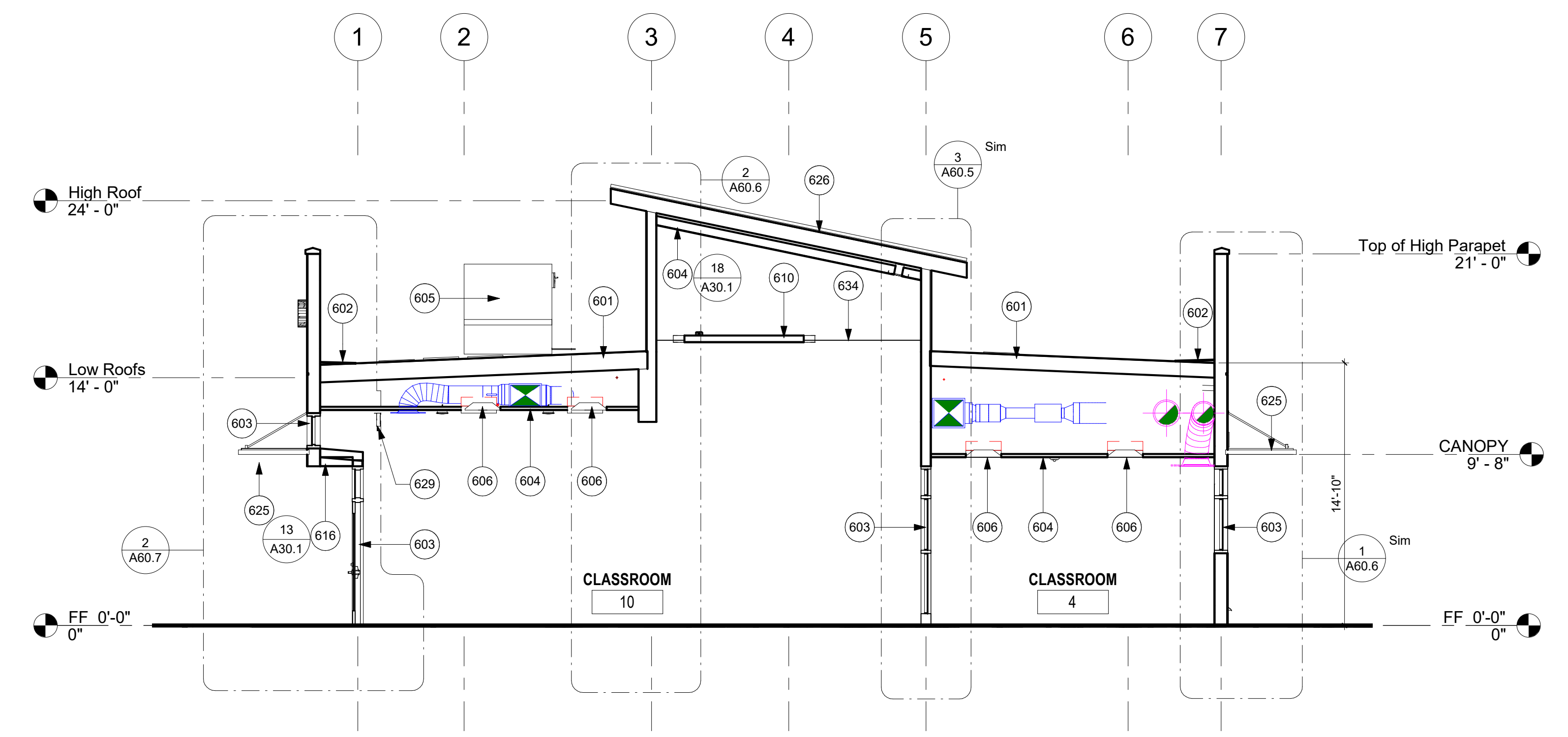
SECTION KEYNOTES

- 601 TPO ROOFING MATERIAL
- 602 CRICKET
- 603 DOOR/WINDOW FRAME - SEE SCHEDULE
- 604 CEILING, SEE SCHEDULE
- 605 ROOF MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
- 606 LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- 608 ROOF HATCH
- 610 FLOATING CEILING CLOUDS
- 616 EXTERIOR PLASTER SOFFIT
- 625 METAL CANOPY & BRACING - SEE STRUCTURAL DRAWINGS
- 626 SLOPED STANDING SEAM METAL ROOF
- 628 ROOF ACCESS LADDER
- 629 PROVIDE LIGHTED EXIT SIGNAGE, SEE ELECTRICAL DRAWINGS
- 634 HORIZONTAL SEISMIC CABLE BRACING FOR FLOATING CEILING CLOUDS

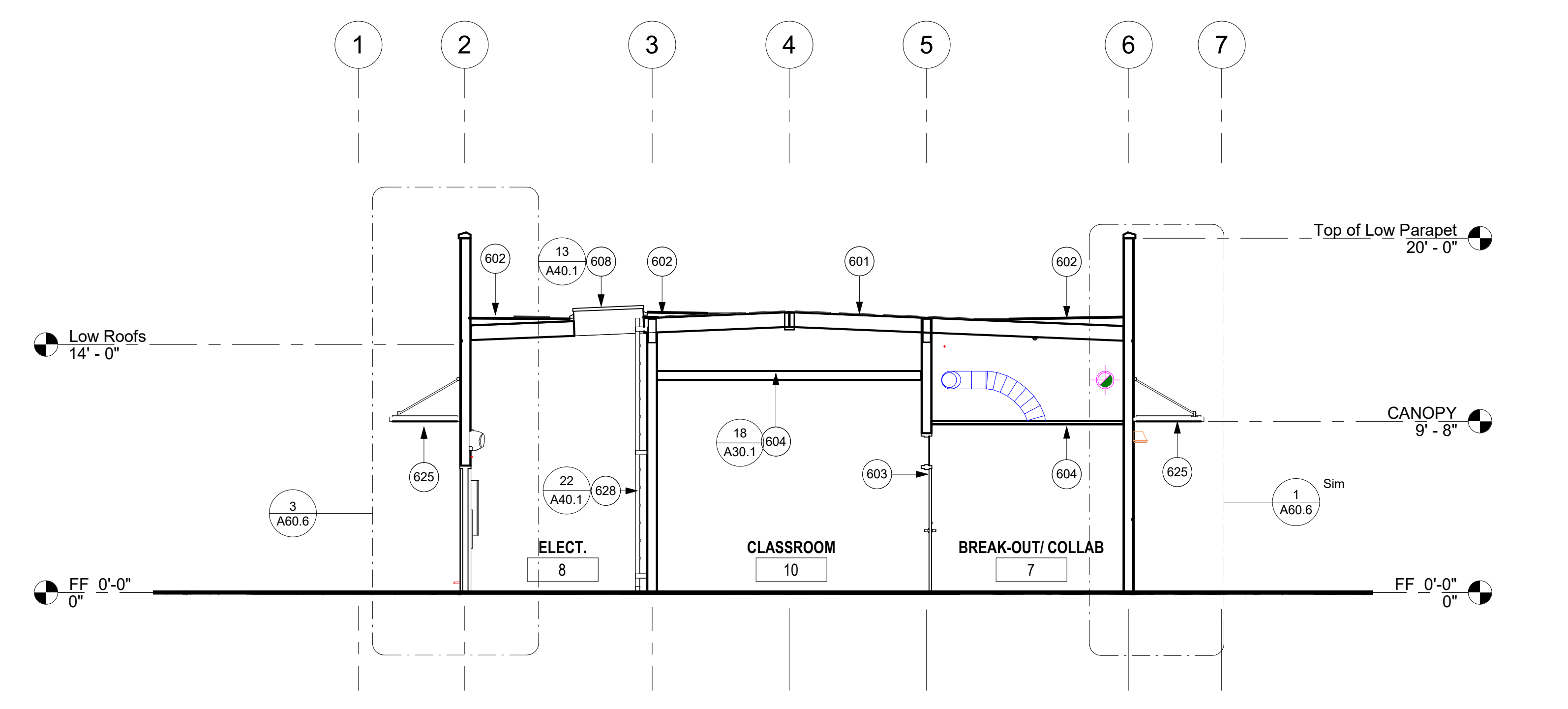
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 APP. 04-118742 INC.
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Section 8 3/16" = 1'-0" 1

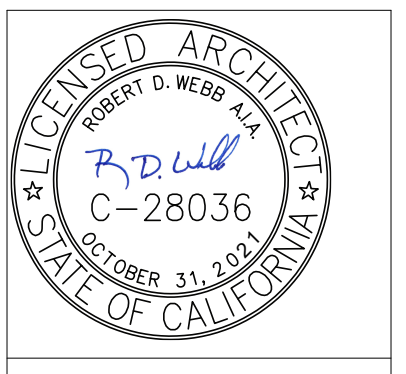


Section 9 3/16" = 1'-0" 2



Section 10 3/16" = 1'-0" 3

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



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INTERIOR ELEVATION LEGEND

-  WINDOW TAG. SEE SCHEDULE
-  TACKABLE WALL COVERING
-  ACOUSTICAL WALL PANEL

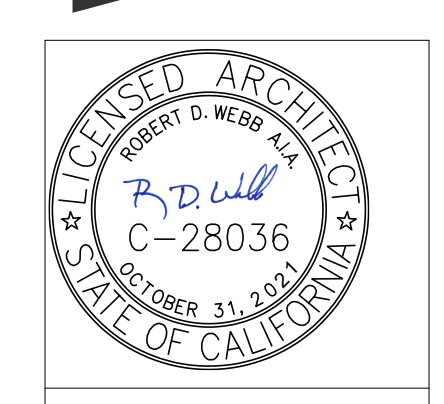
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INTERIOR ELEVATION KEYNOTES

- 716 WALL TO RECEIVE TEXTURE AND PAINT
- 723 HOLLOW METAL DOOR FRAME. SEE DOOR/WINDOW SCHEDULES
- 724 FIRE EXTINGUISHER
- 725 TACKABLE WALL PANELS
- 726 CASEWORK
- 730 OPERABLE WALL. SEE DOOR/WINDOW SCHEDULES
- 731 HOLLOW METAL WINDOW FRAME. SEE DOOR/WINDOW SCHEDULES
- 733 WALL BASE. SEE FINISH SCHEDULE
- 734 FUTURE 55" TELEVISION. MAX. PROJECTION NOT TO EXCEED 4". PROVIDE POWER, DATA AND BACKING. PER DETAIL REFERENCED ON PLAN
- 739 FLOATING ACOUSTIC CEILING CLOUDS. PROVIDE HORIZONTAL SEISMIC CABLE BRACING
- 740 RAISED READING AREA
- 741 LIBRARY RECEPTION DESK. SEE ENLARGED PLAN
- 754 ACOUSTIC WALL PANEL- 2' X 6' X 20 LBS. MECHANICALLY FASTEN WITH Z-CLIP PER MANUFACTURER RECOMMENDATION
- 758 PROVIDE LIGHTED EXIT SIGNAGE. SEE ELECTRICAL DRAWINGS
- 759 BOOKSHELVES, OFOI. PROVIDE BACKING

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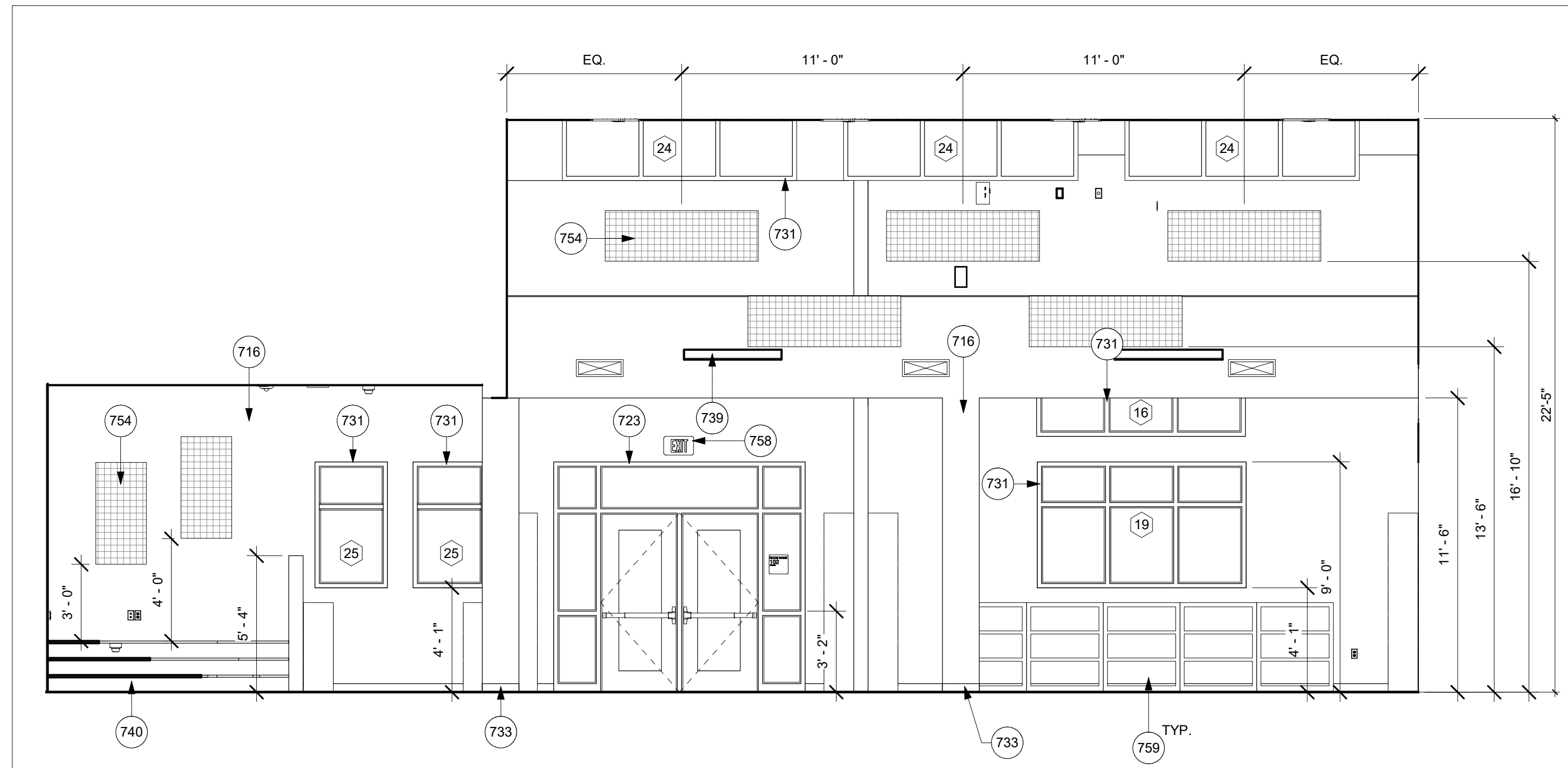


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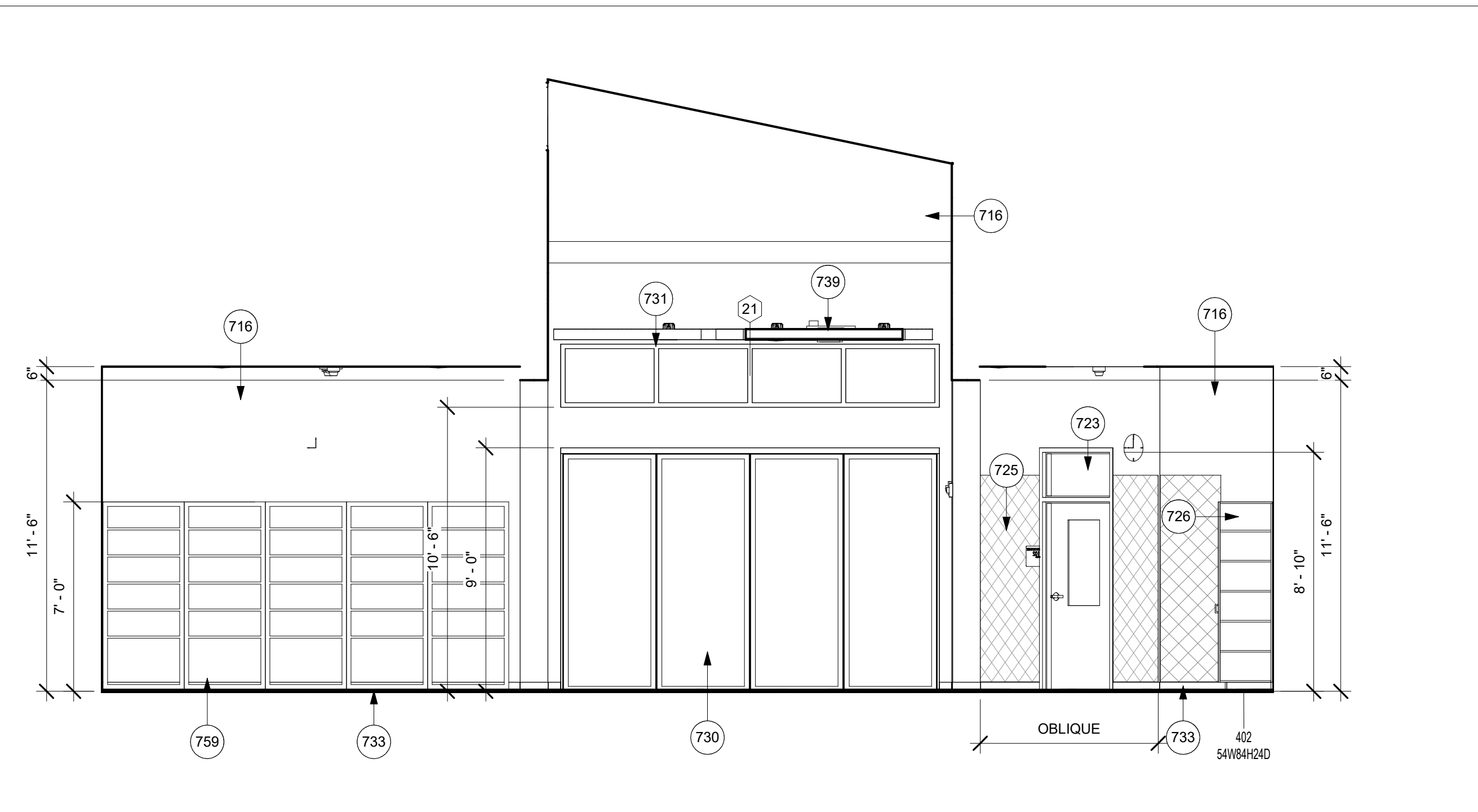
INTERIOR ELEVATIONS

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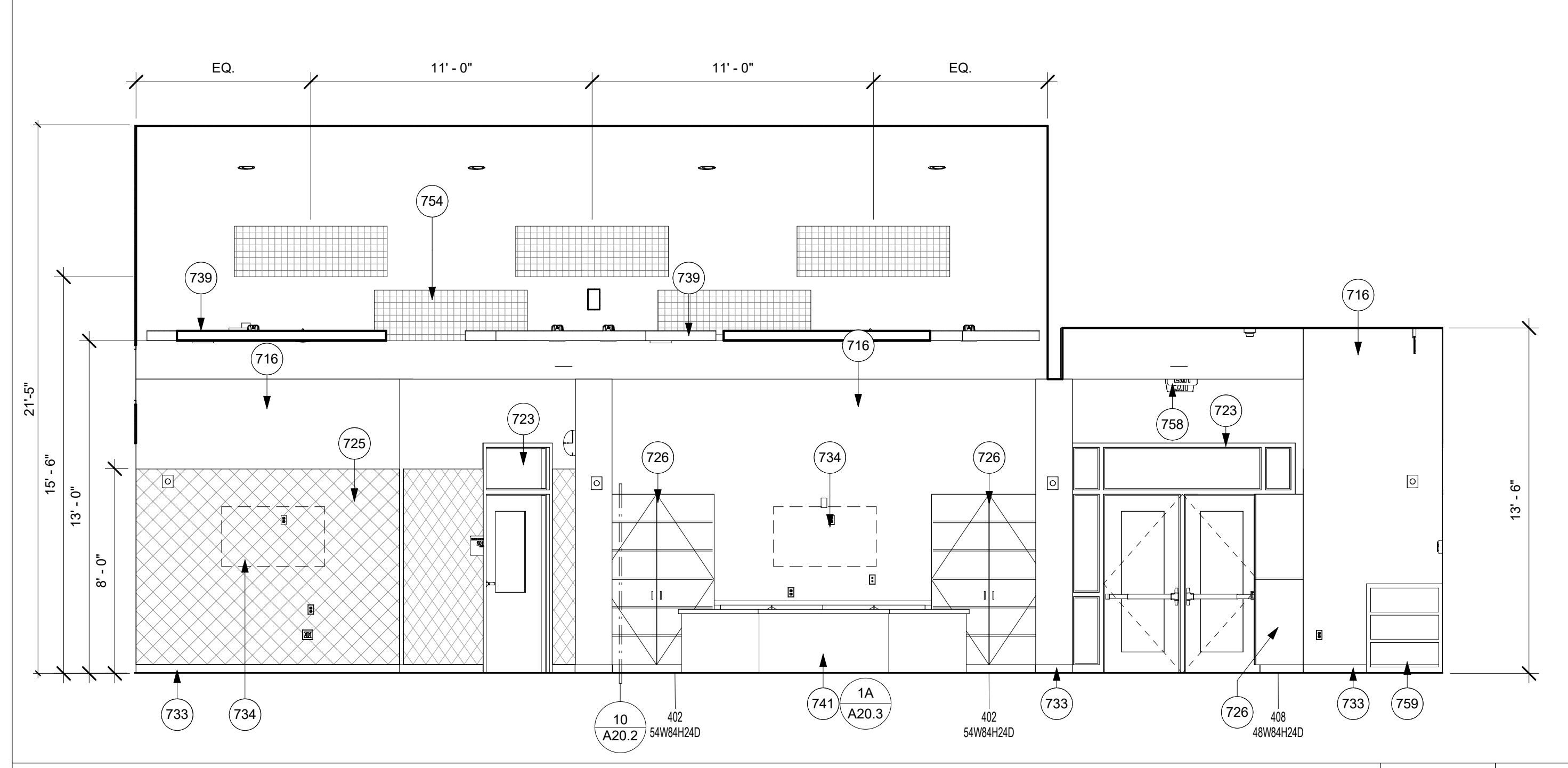
A7.1



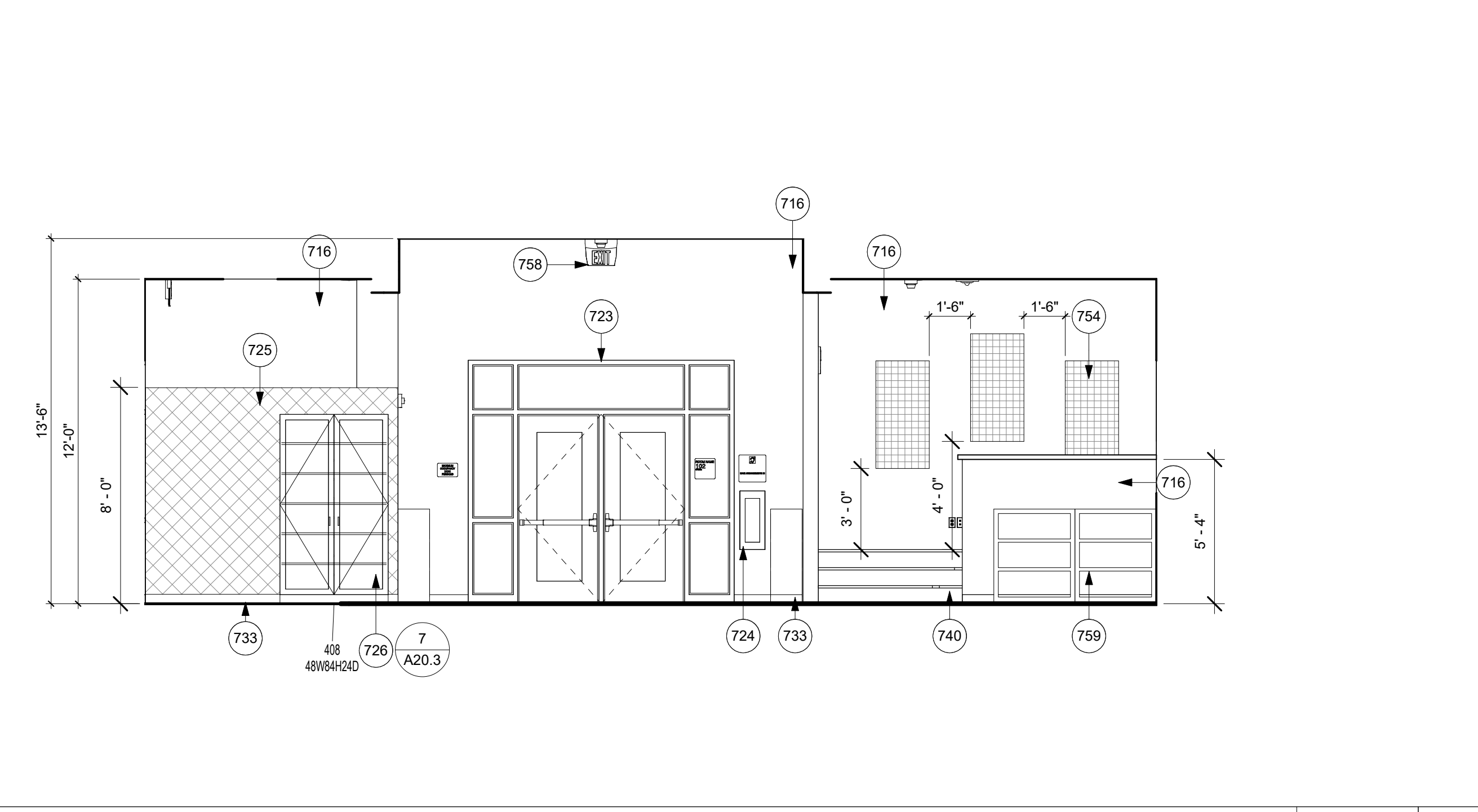
LIBRARY- NORTH 1/4" = 1'-0" 1



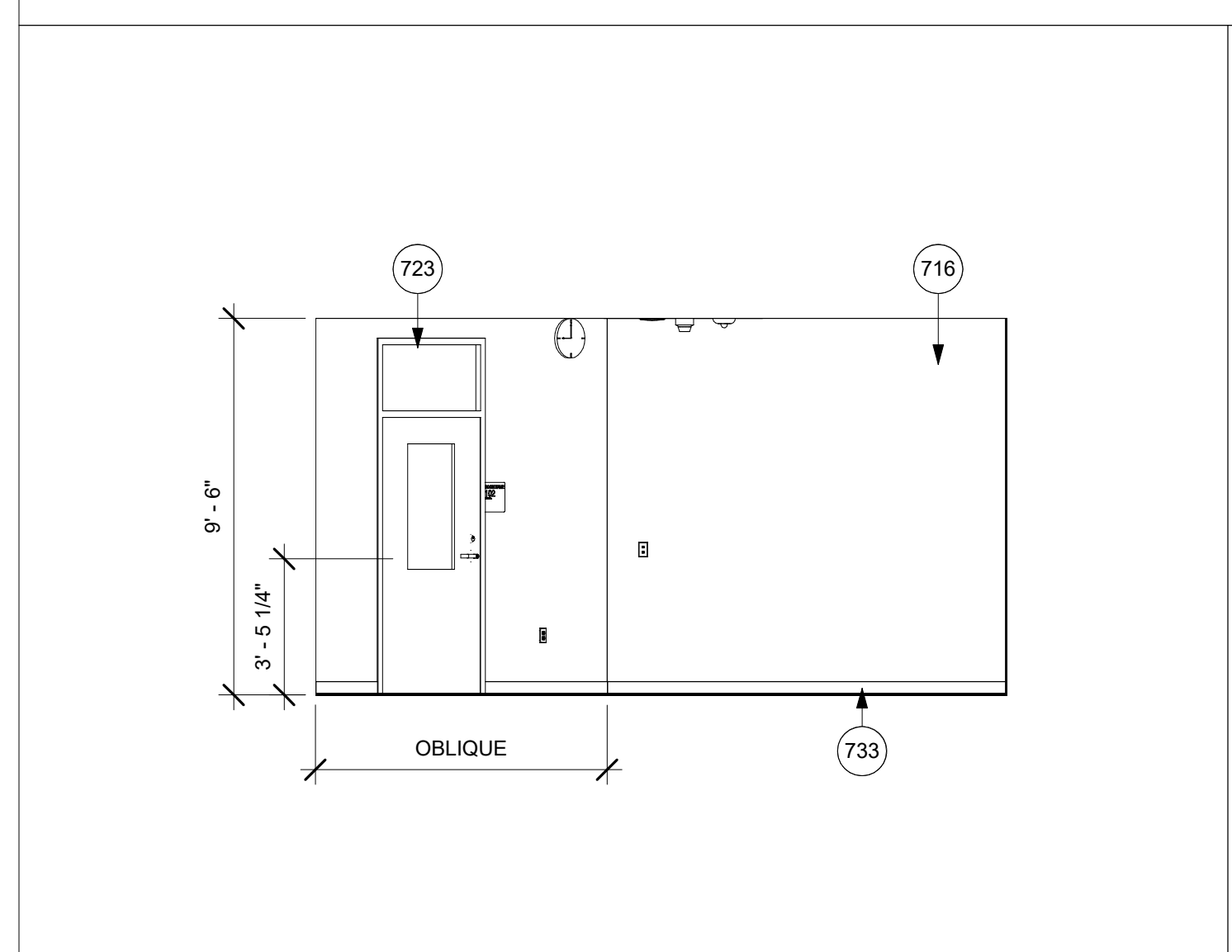
LIBRARY- EAST 1/4" = 1'-0" 2



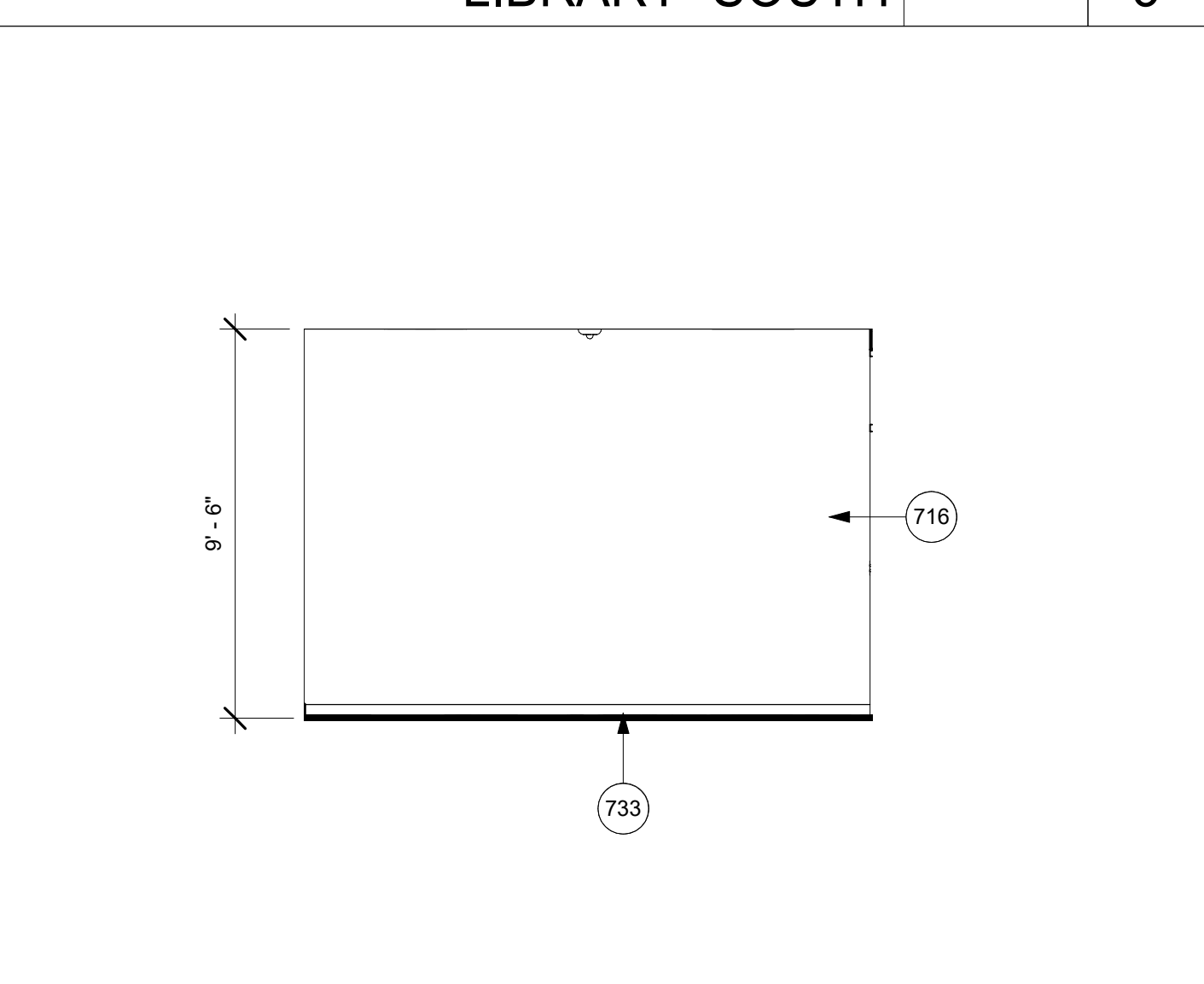
LIBRARY- SOUTH 1/4" = 1'-0" 3



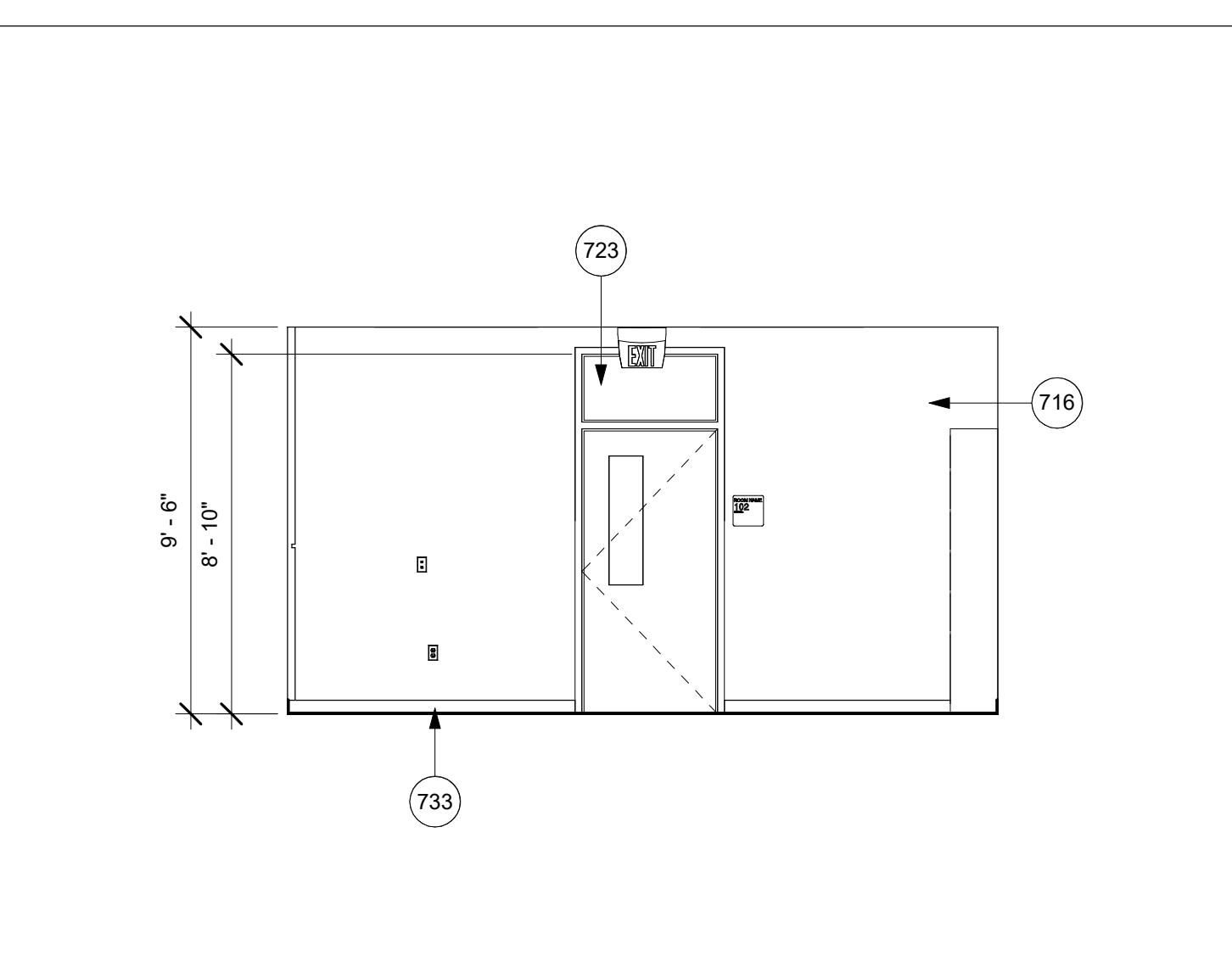
LIBRARY- WEST 1/4" = 1'-0" 4



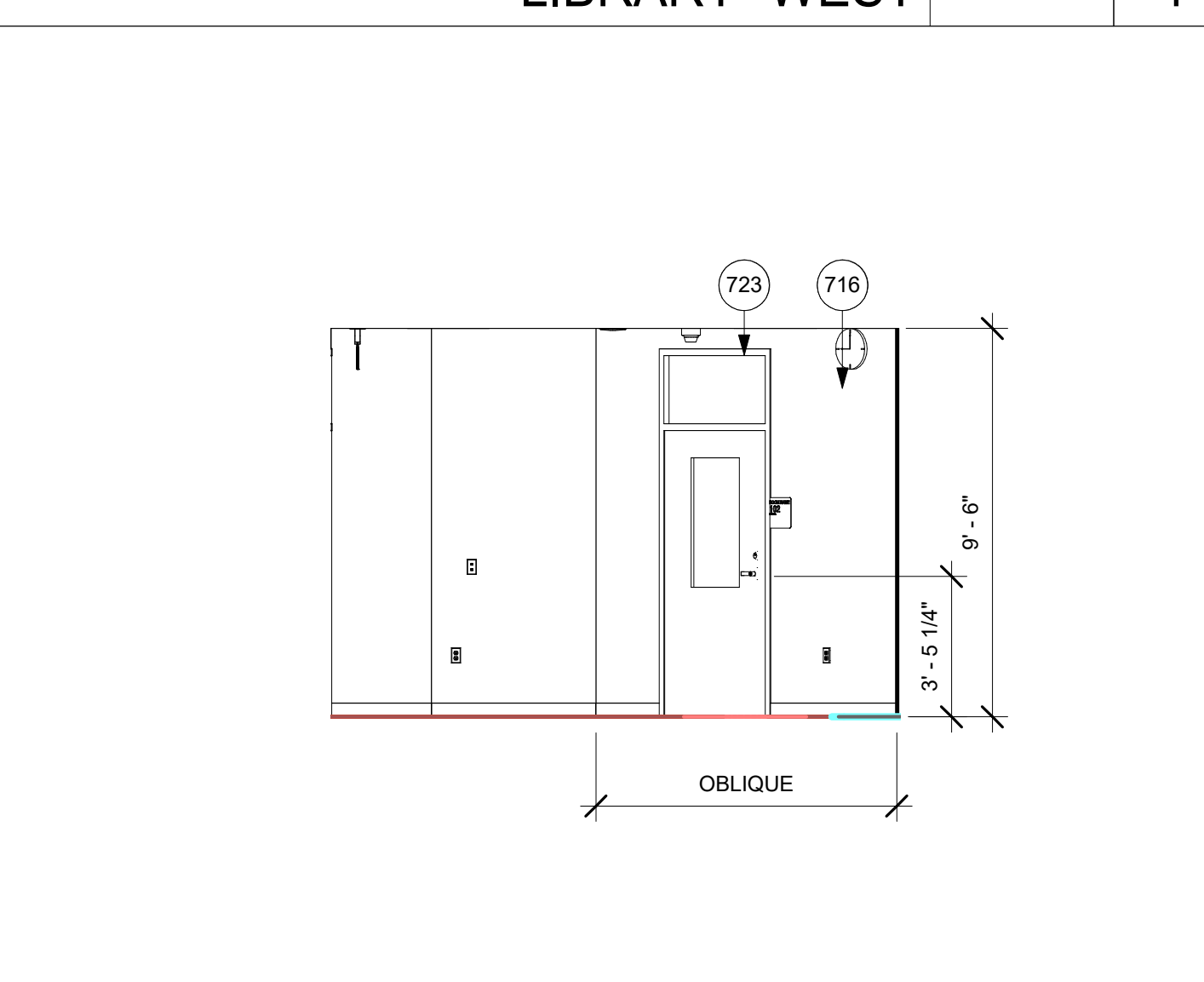
BOOK ROOM- NORTH 1/4" = 1'-0" 5



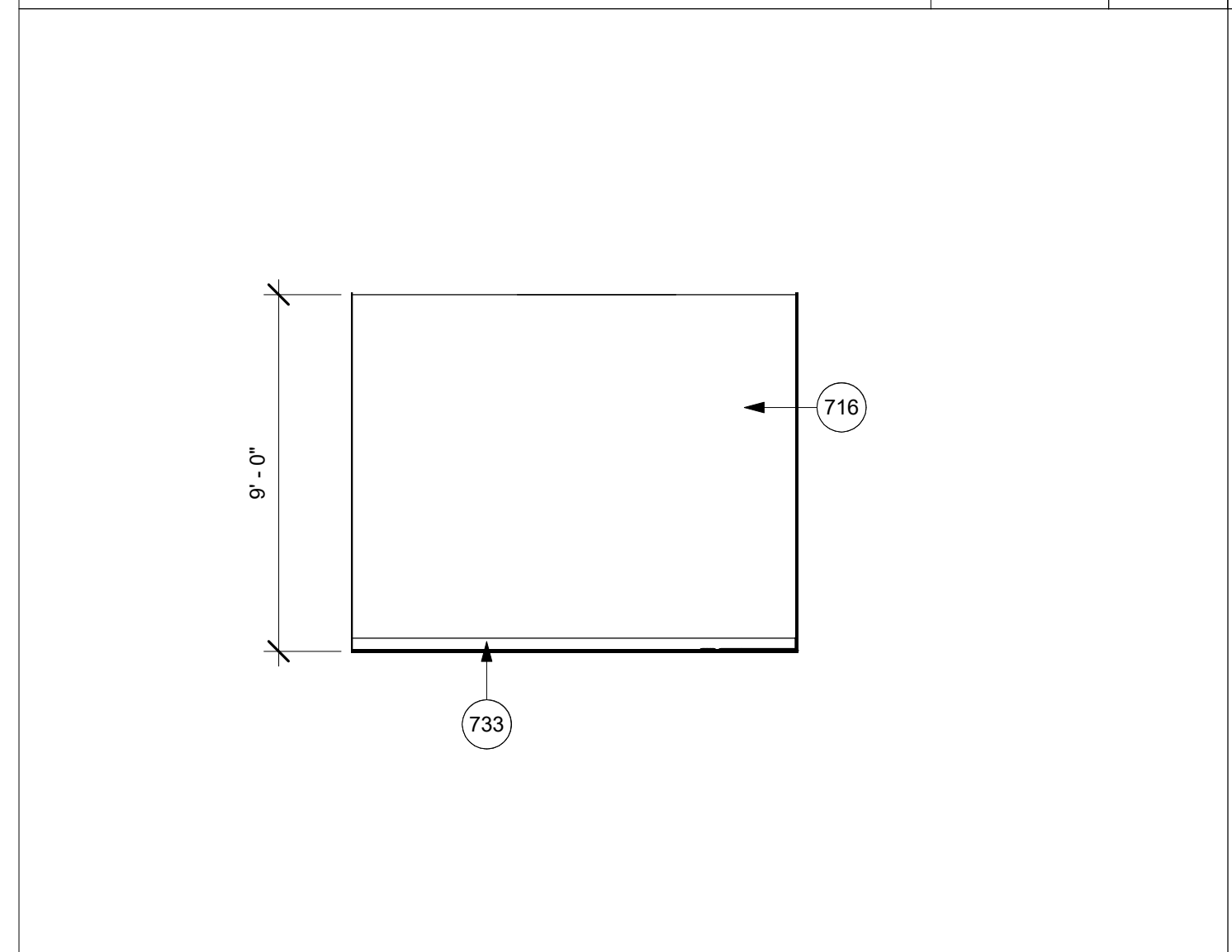
BOOK ROOM- EAST 1/4" = 1'-0" 6



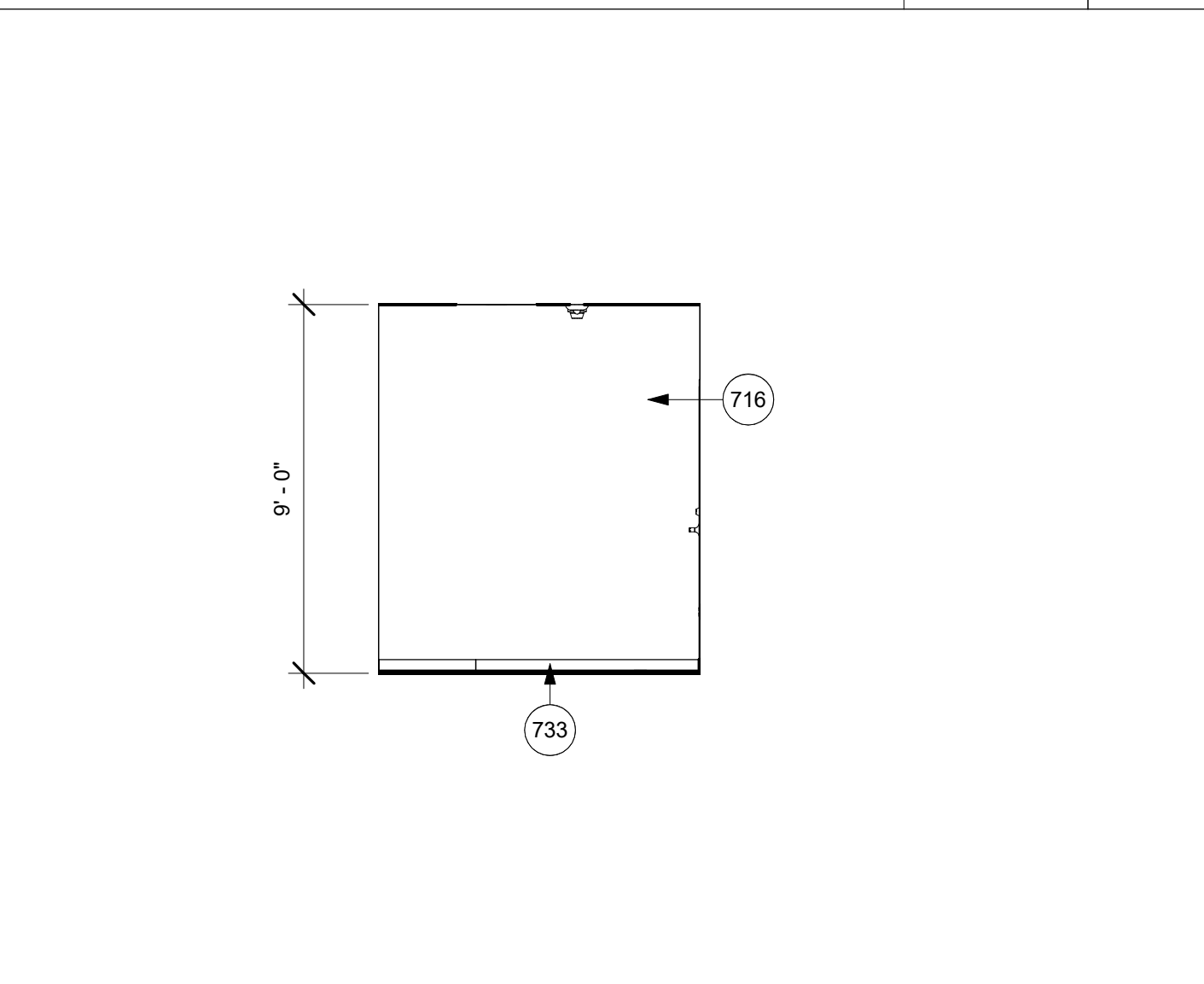
BOOK ROOM - SOUTH 1/4" = 1'-0" 7



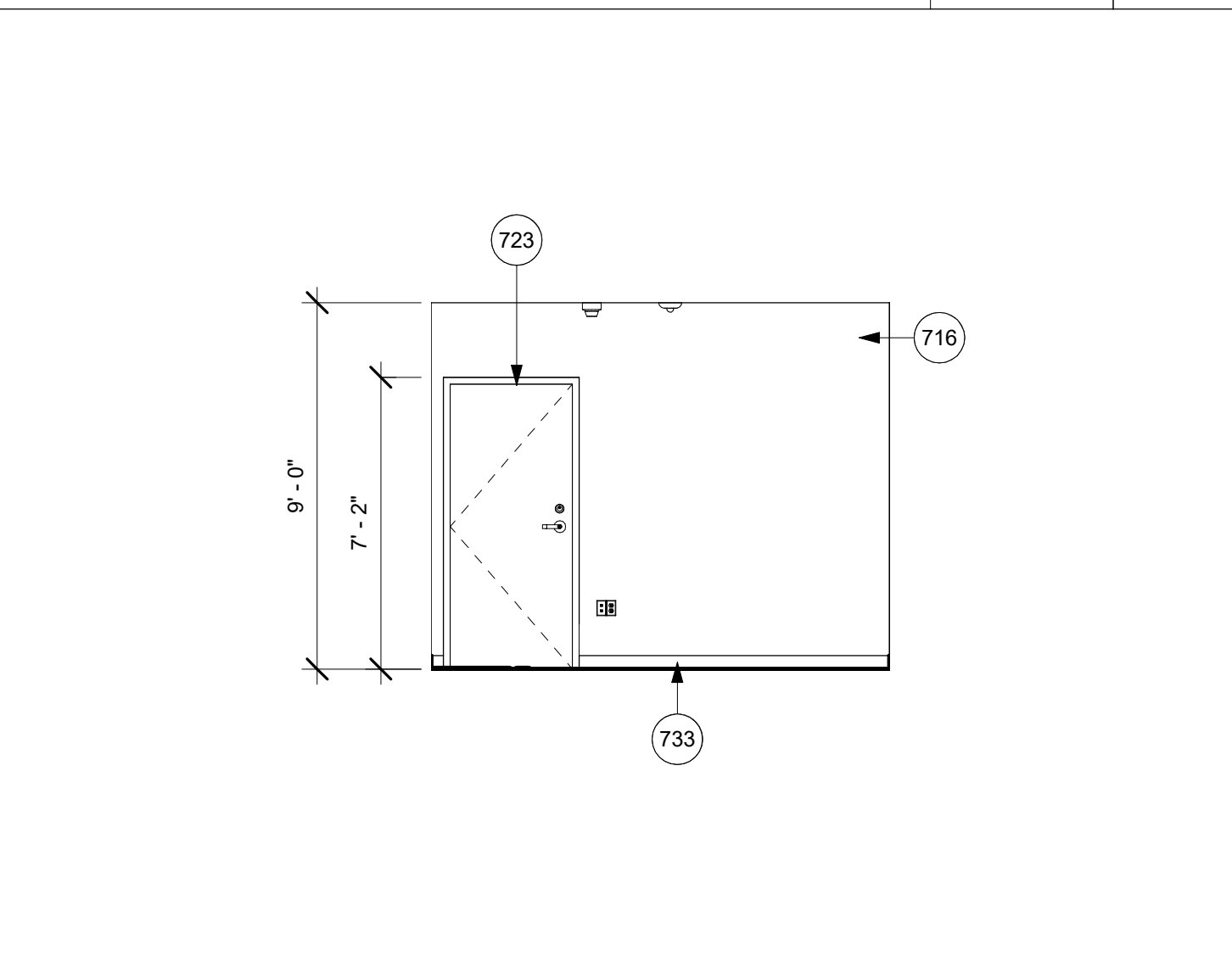
BOOK ROOM- WEST 1/4" = 1'-0" 8



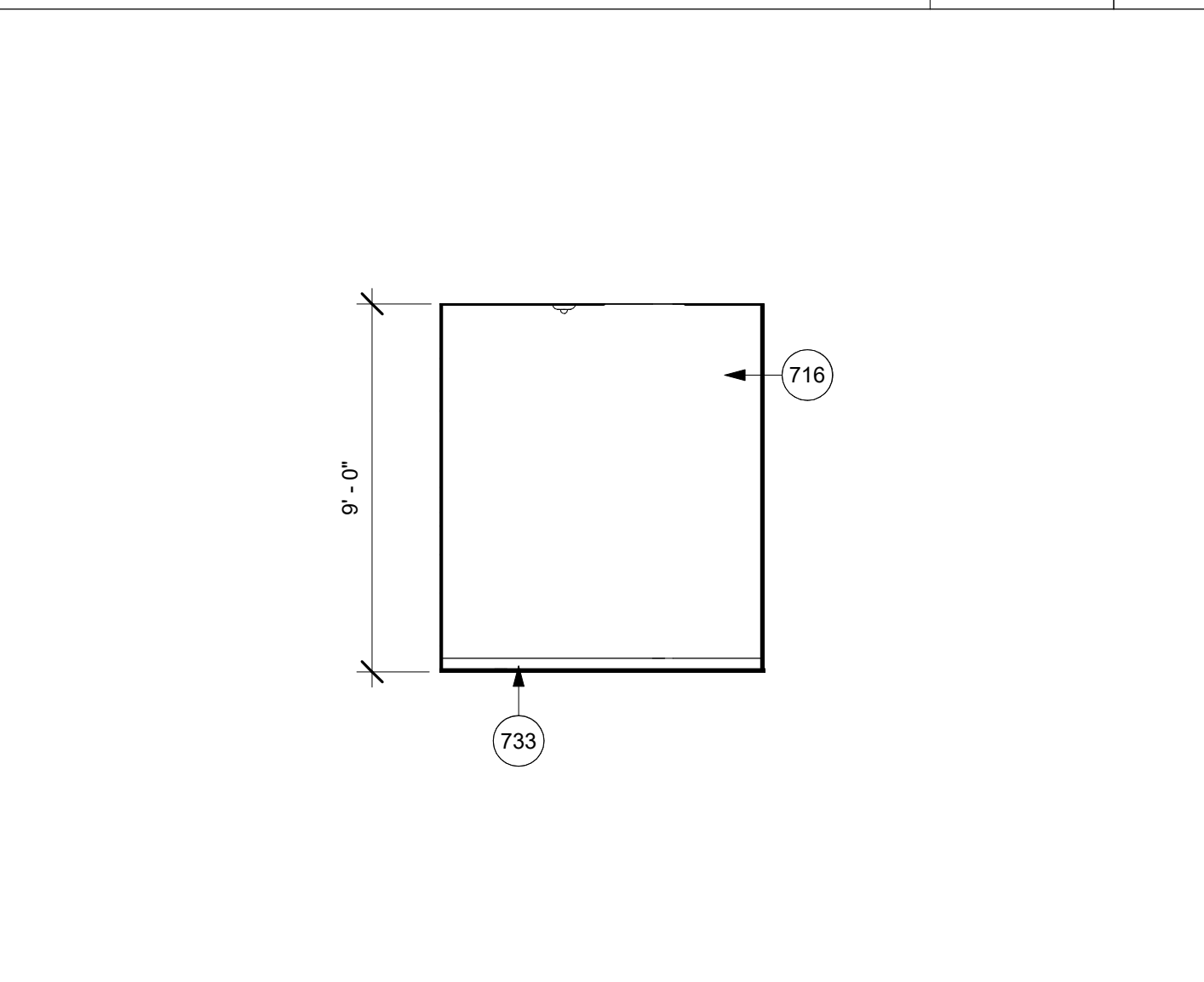
STORAGE- NORTH 1/4" = 1'-0" 9



STORAGE- EAST 1/4" = 1'-0" 10



STORAGE- SOUTH 1/4" = 1'-0" 11



STORAGE- WEST 1/4" = 1'-0" 12

INTERIOR ELEVATION KEYNOTES

- 716 WALL TO RECEIVE TEXTURE AND PAINT
- 722 MARKER BOARD
- 723 HOLLOW METAL DOOR FRAME, SEE DOOR/WINDOW SCHEDULES
- 724 FIRE EXTINGUISHER
- 725 TACKABLE WALL PANELS
- 726 CASEWORK
- 727 ACCESSIBLE SINK AND CASE WORK
- 729 CEILING MOUNTED POWER CHORD REEL- SEE ELECTRICAL DRAWINGS
- 730 OPERABLE WALL, SEE DOOR/WINDOW SCHEDULES
- 731 HOLLOW METAL WINDOW FRAME, SEE DOOR/WINDOW SCHEDULES
- 733 WALL BASE-SEE FINISH SCHEDULE
- 734 FUTURE 55" TELEVISION, MAX. PROJECTION NOT TO EXCEED 4"; PROVIDE POWER, DATA AND BACKING, PER DETAIL REFERENCED ON PLAN
- 739 FLOATING ACOUSTIC CEILING CLOUDS, PROVIDE HORIZONTAL SEISMIC CABLE BRACING
- 744 FUTURE TEACHING WALL, OFOI

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Consultant

Engineer

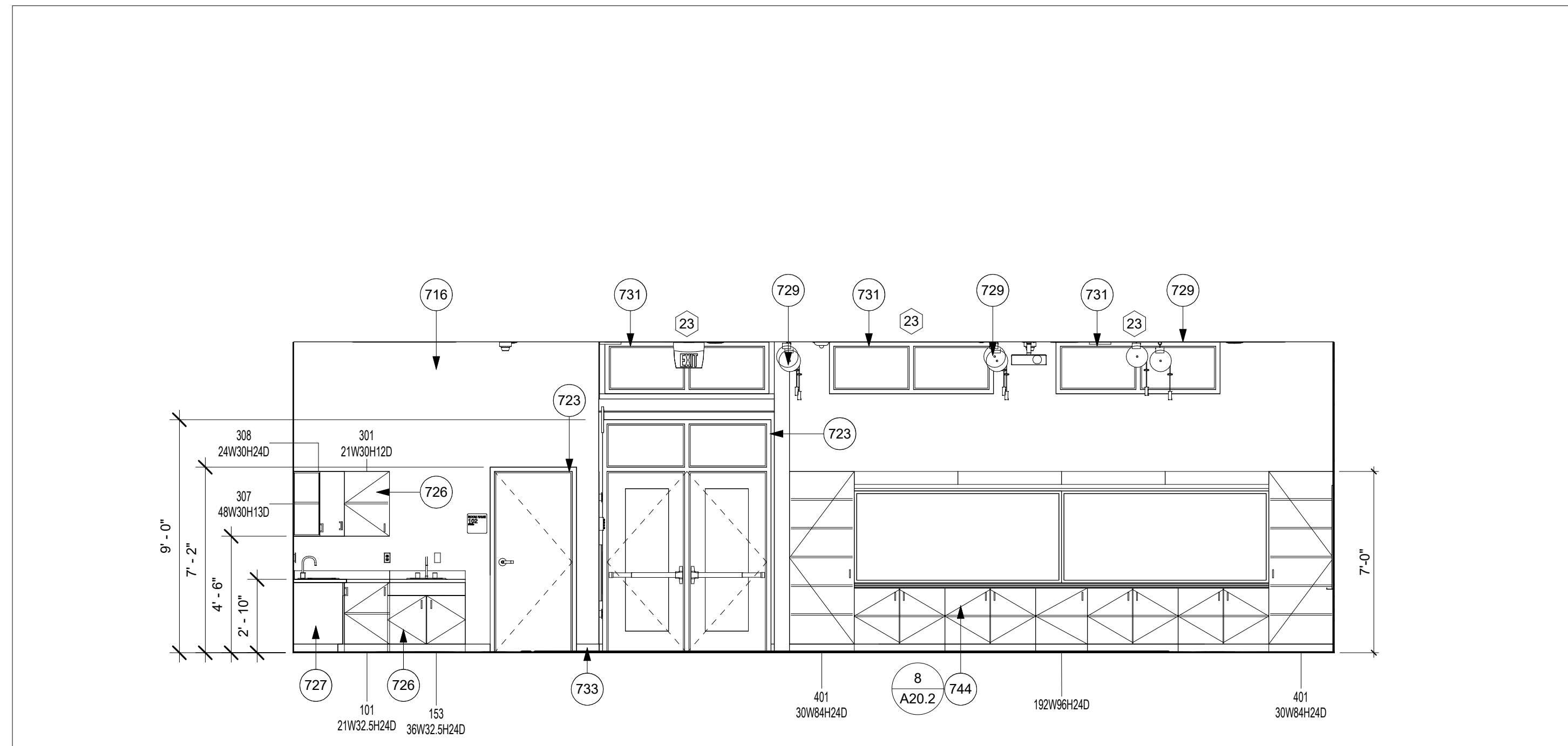
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REGISTERED ARCHITECT
 ROBERT D. WEBB
 C-28036
 EXPIRES 31.12.2024
 STATE OF CALIFORNIA

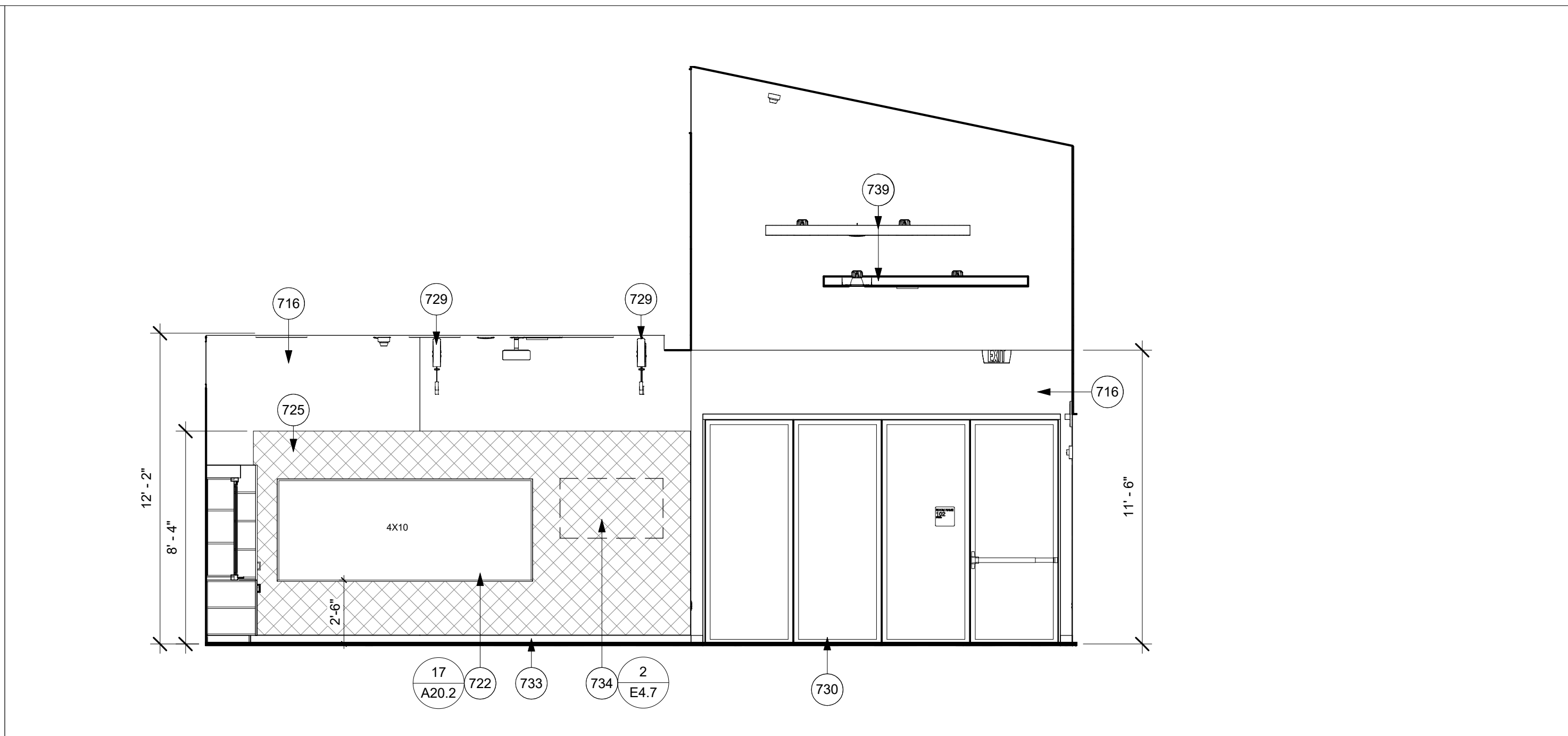
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INTERIOR ELEVATIONS

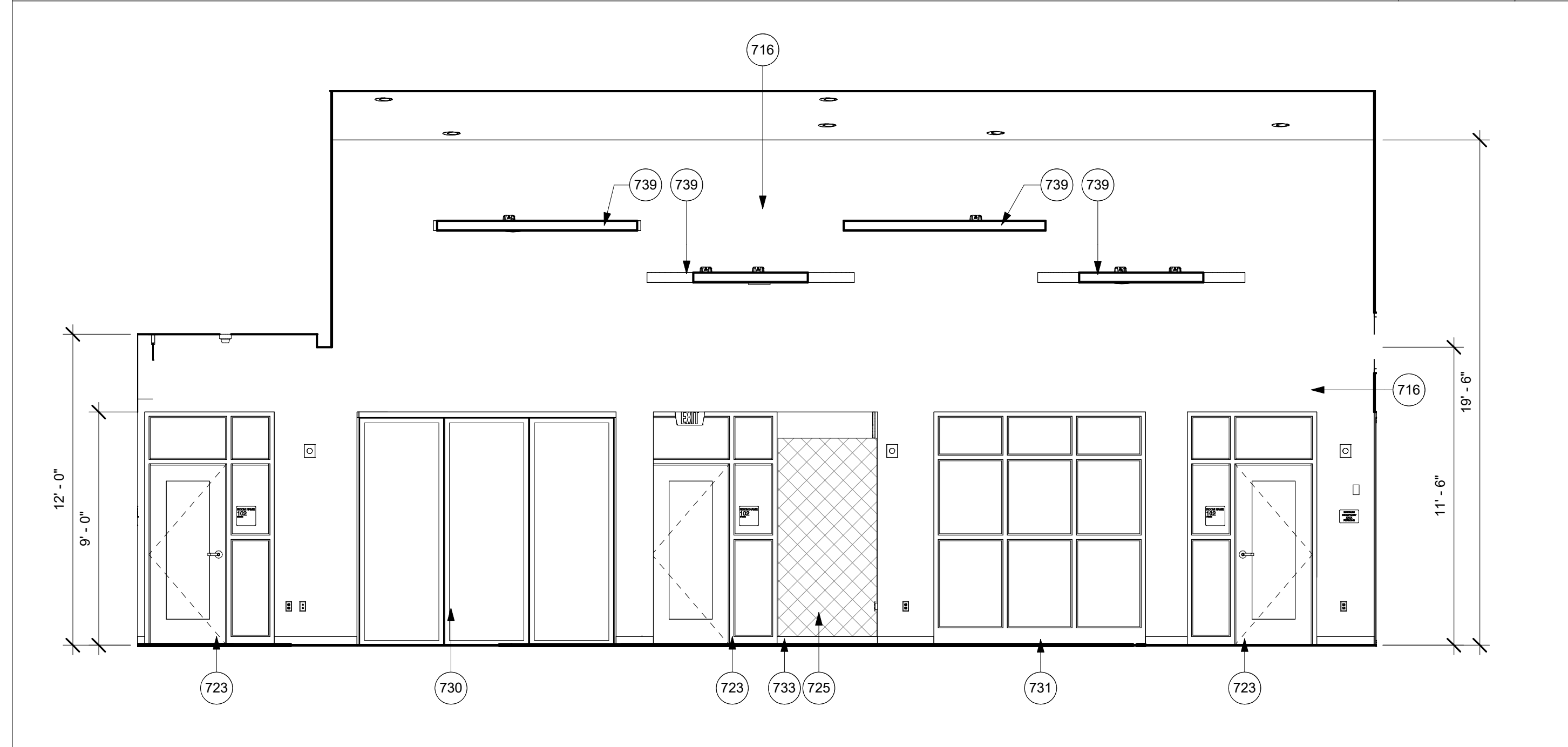
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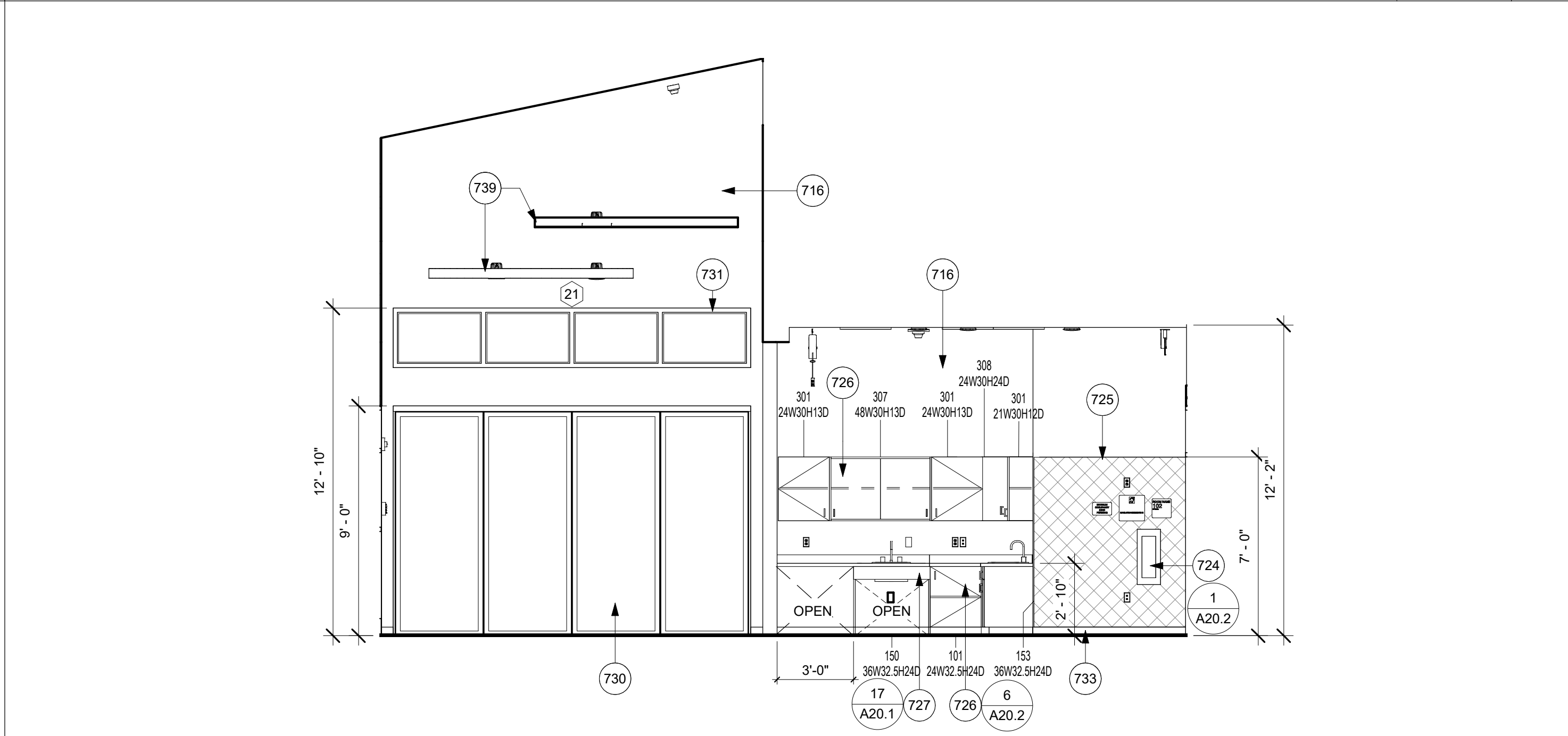
CLASSROOM- NORTH 1/4" = 1'-0" 1



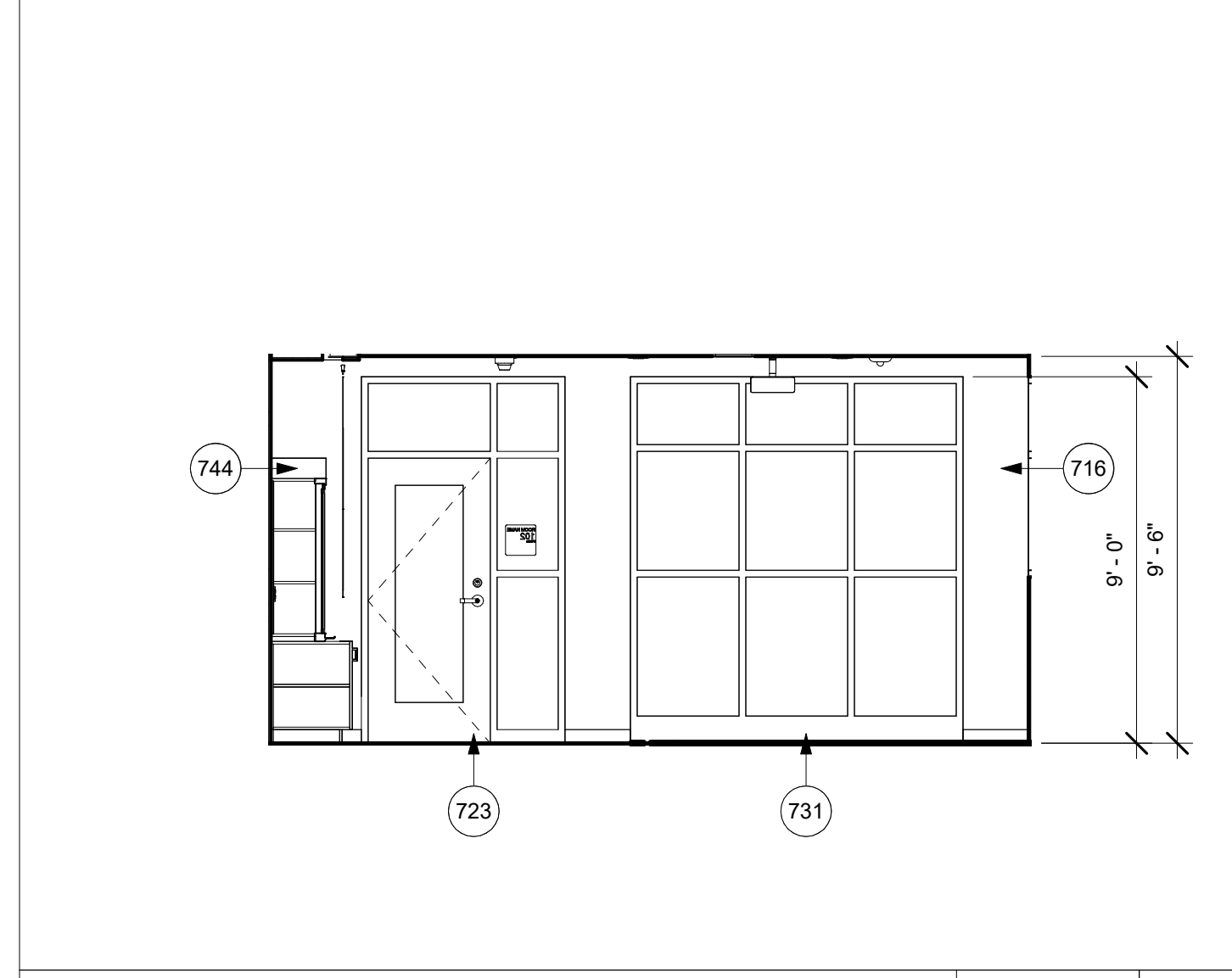
CLASSROOM- EAST 1/4" = 1'-0" 2



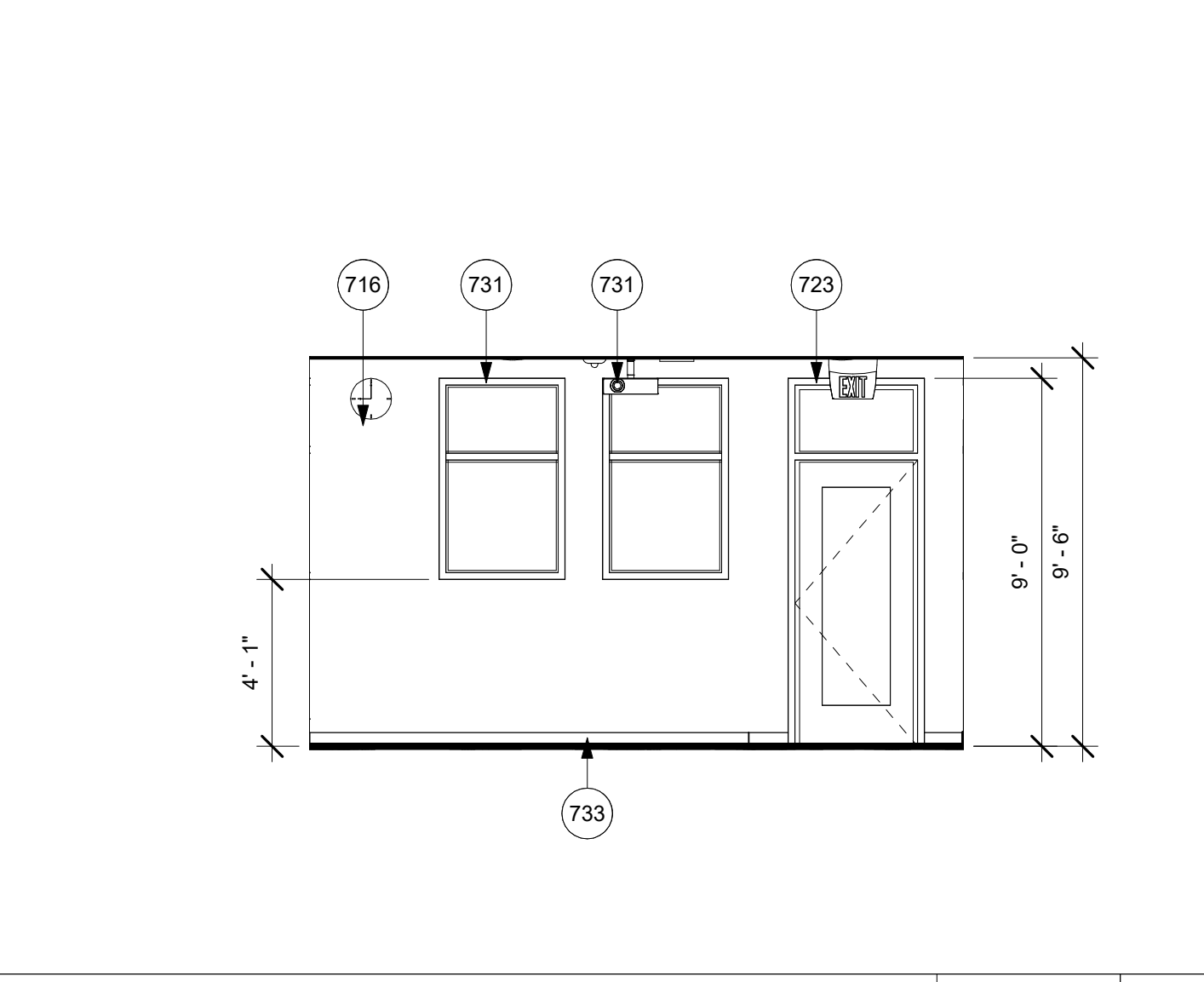
CLASSROOM- SOUTH 1/4" = 1'-0" 3



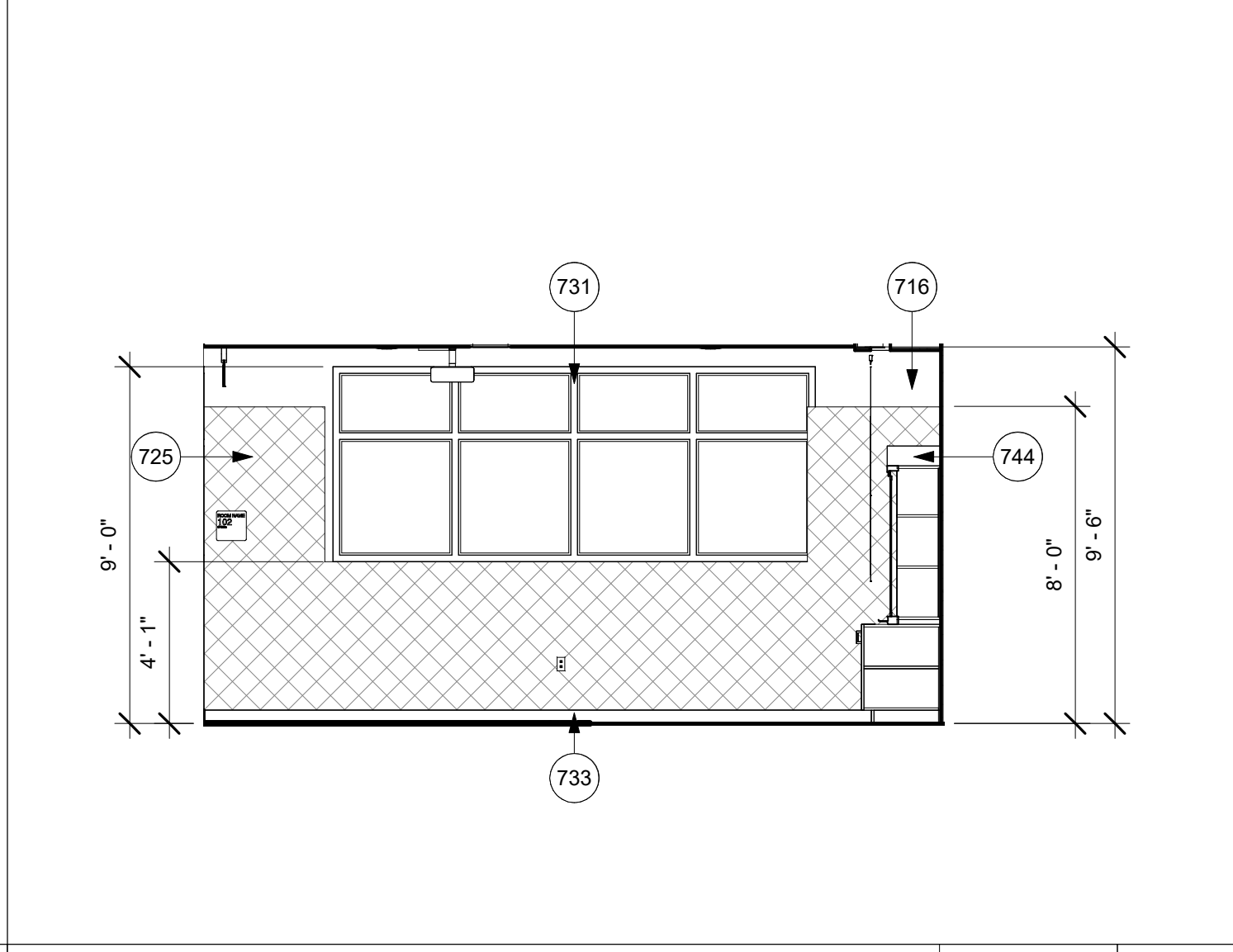
CLASSROOM- WEST 1/4" = 1'-0" 4



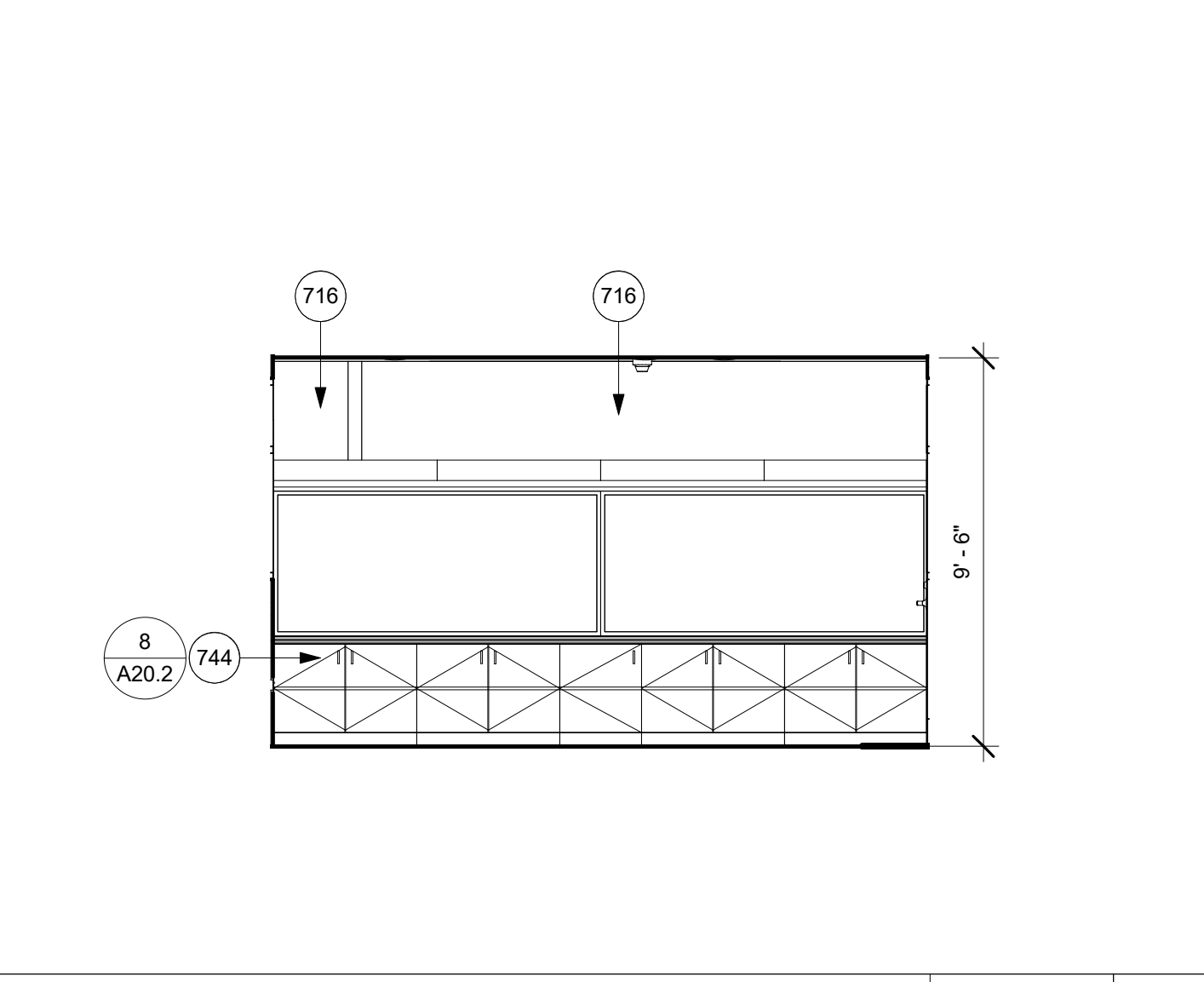
CLASSROOM 4- NORTH 1/4" = 1'-0" 5



CLASSROOM 4- EAST 1/4" = 1'-0" 6



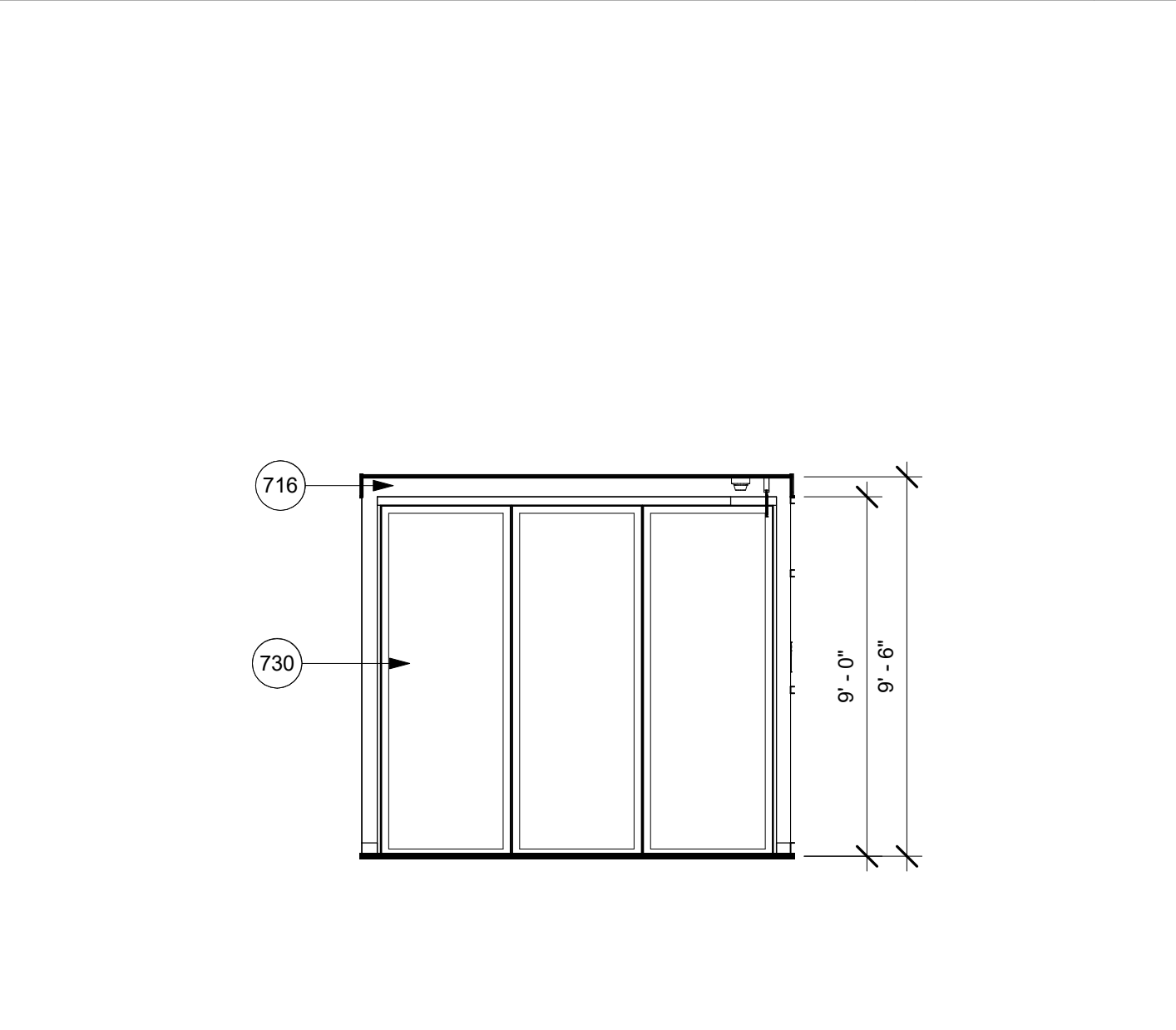
CLASSROOM 4- SOUTH 1/4" = 1'-0" 7



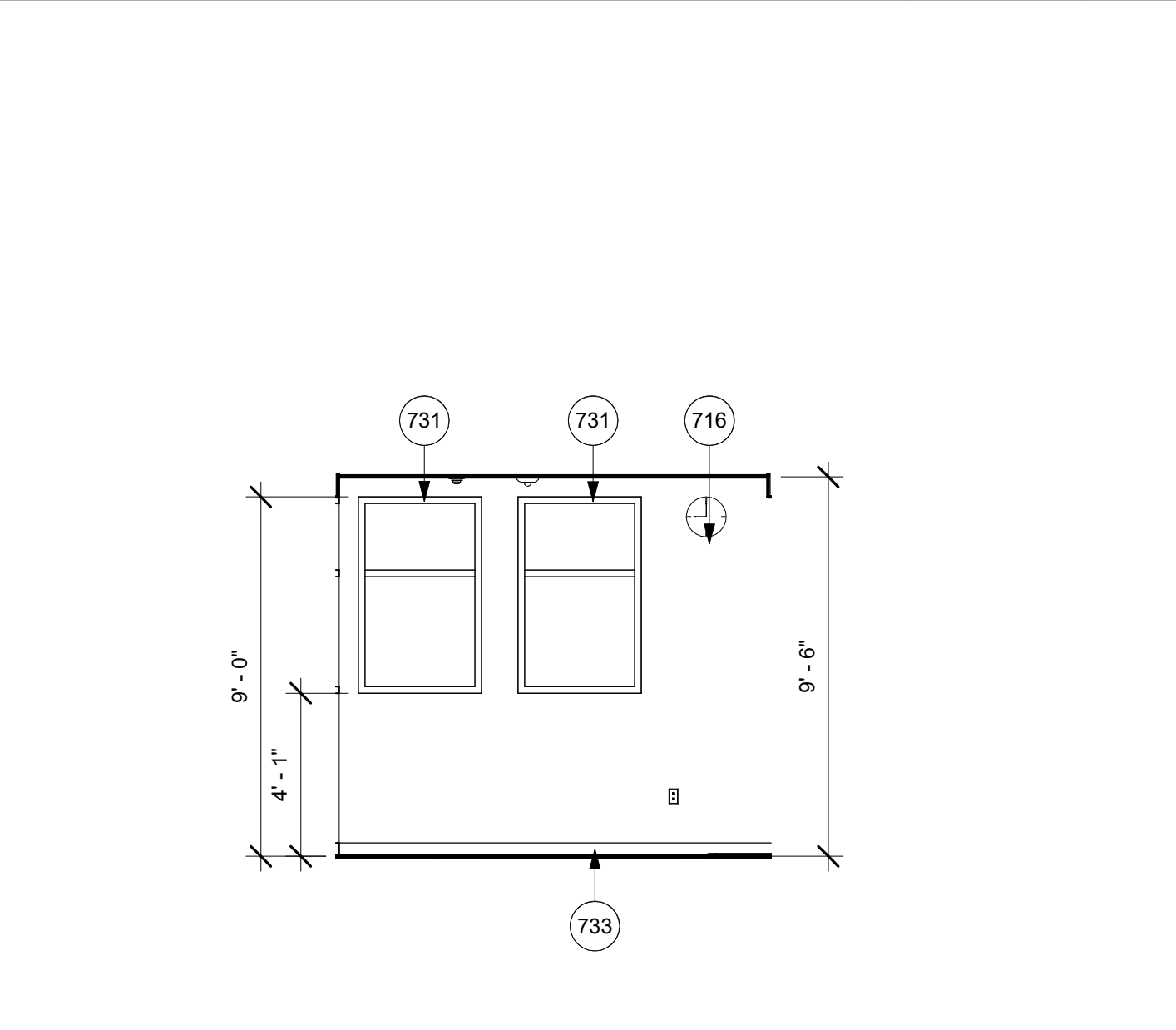
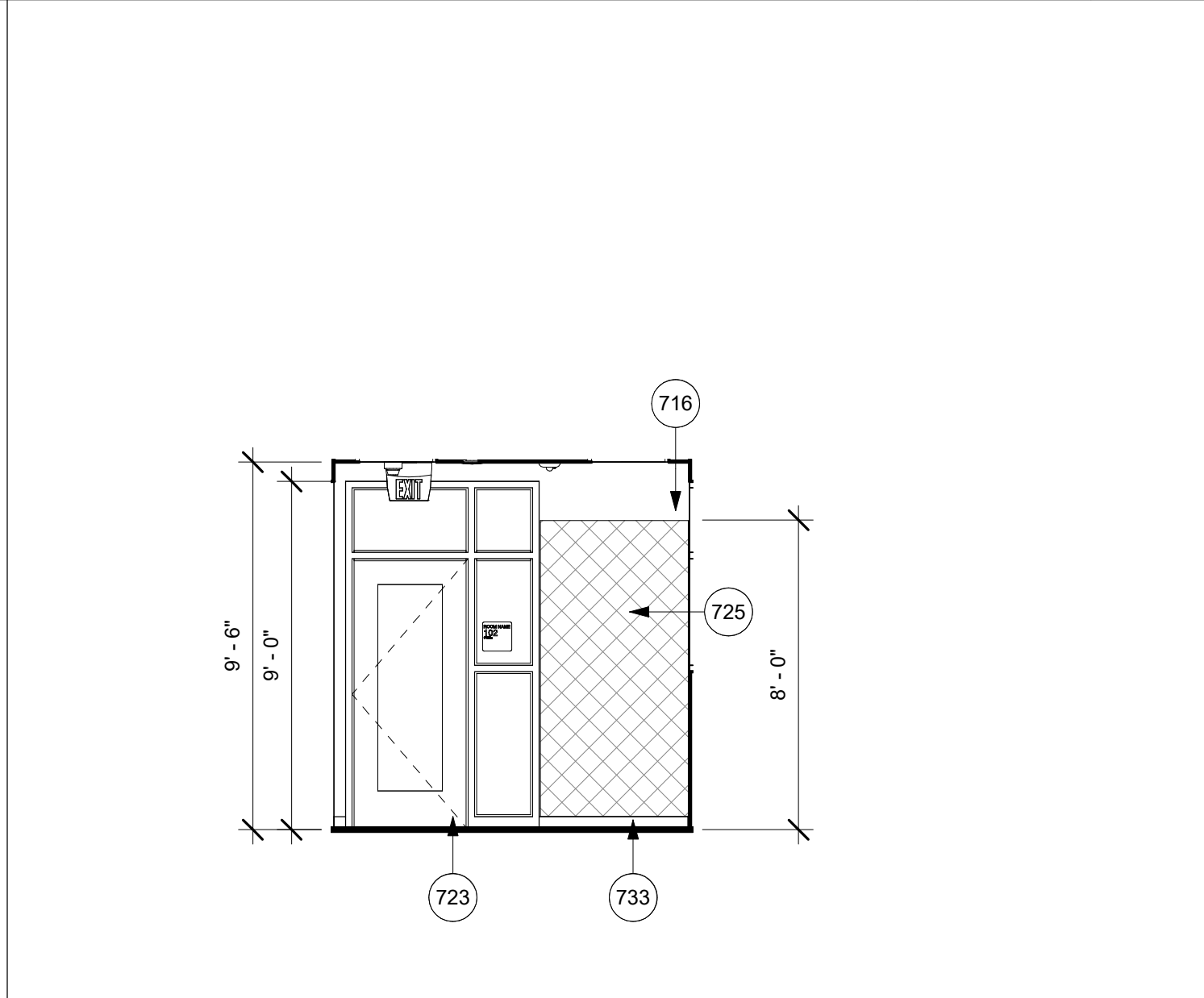
CLASSROOM 4- WEST 1/4" = 1'-0" 8



VESTIBULE- EAST 1/4" = 1'-0" 10



VESTIBULE- SOUTH 1/4" = 1'-0" 11



VESTIBULE- WEST 1/4" = 1'-0" 12

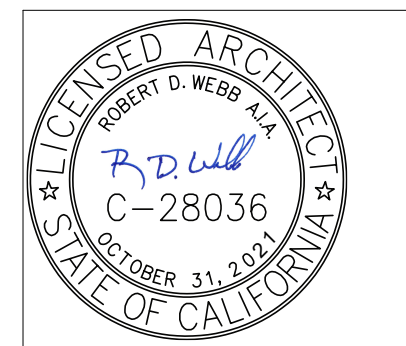
INTERIOR ELEVATION KEYNOTES

- 716 WALL TO RECEIVE TEXTURE AND PAINT
- 723 HOLLOW METAL DOOR FRAME. SEE DOOR/WINDOW SCHEDULES
- 725 TACKABLE WALL PANELS
- 730 OPERABLE WALL. SEE DOOR/WINDOW SCHEDULES
- 731 HOLLOW METAL WINDOW FRAME. SEE DOOR/WINDOW SCHEDULES
- 733 WALL BASE. SEE FINISH SCHEDULE
- 734 FUTURE 55" TELEVISION. MAX PROJECTION NOT TO EXCEED 4". PROVIDE POWER, DATA AND BACKING, PER DETAIL REFERENCED ON PLAN
- 737 WALL MOUNTED LADDER

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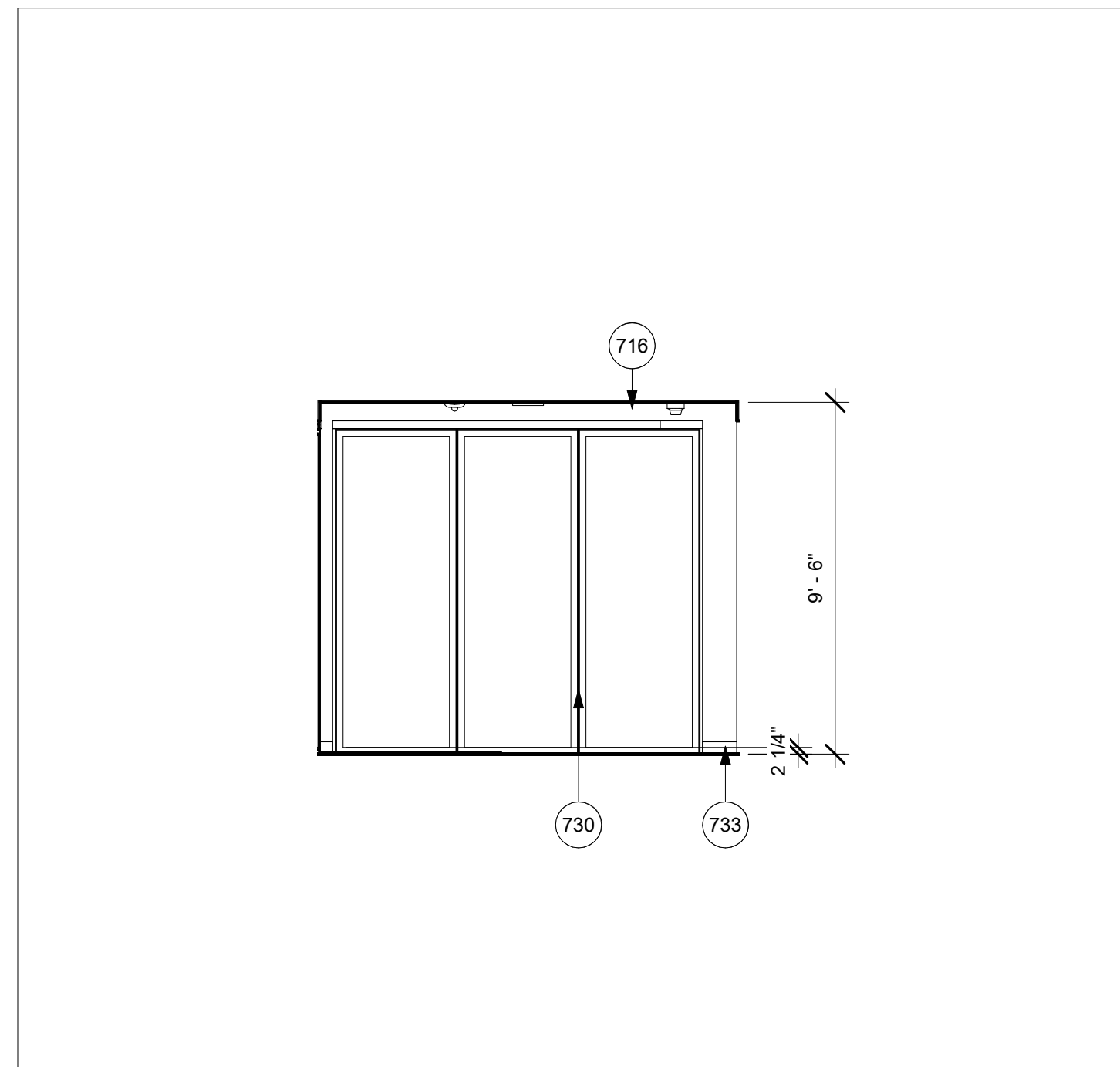
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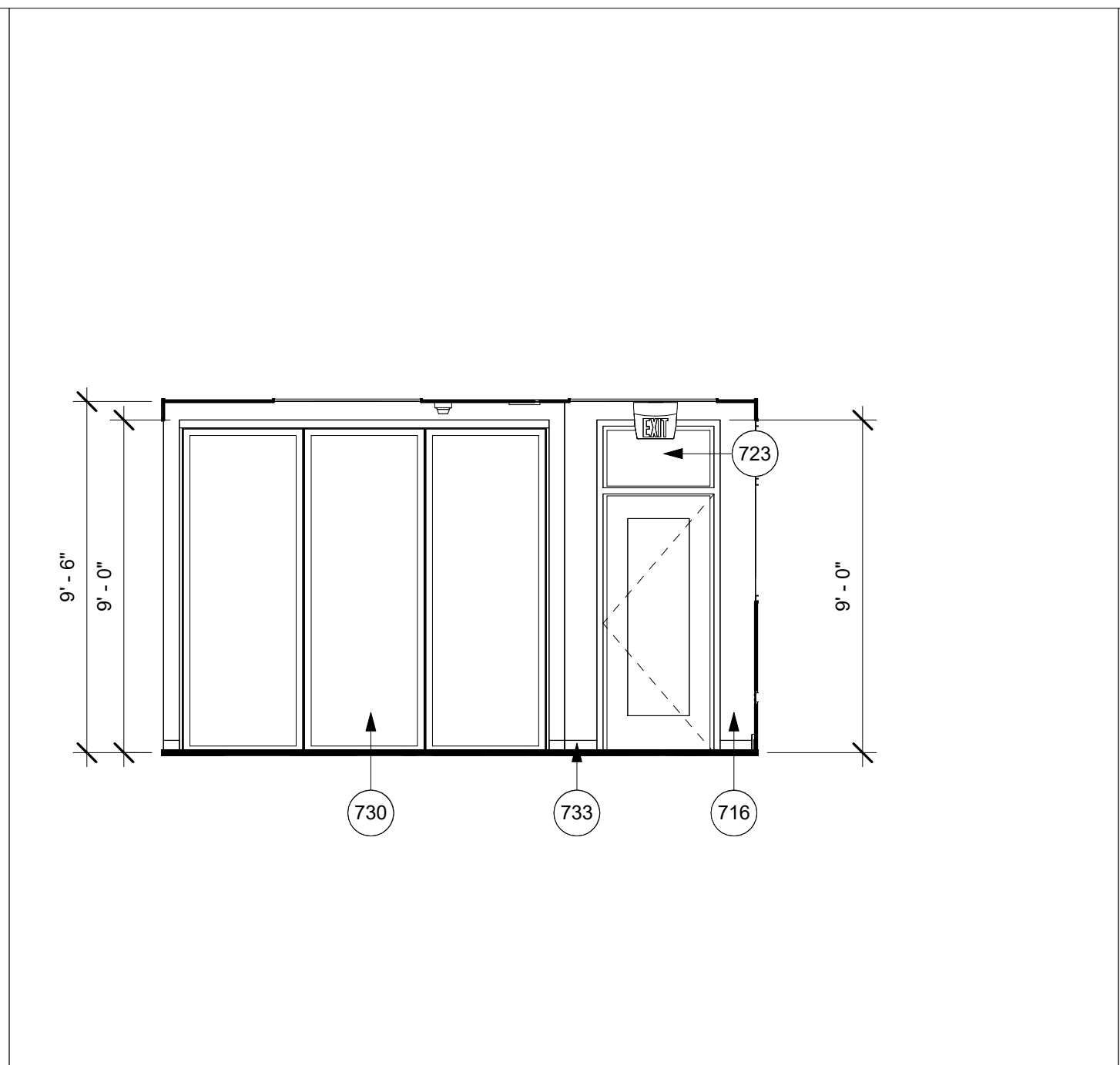
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INTERIOR ELEVATIONS

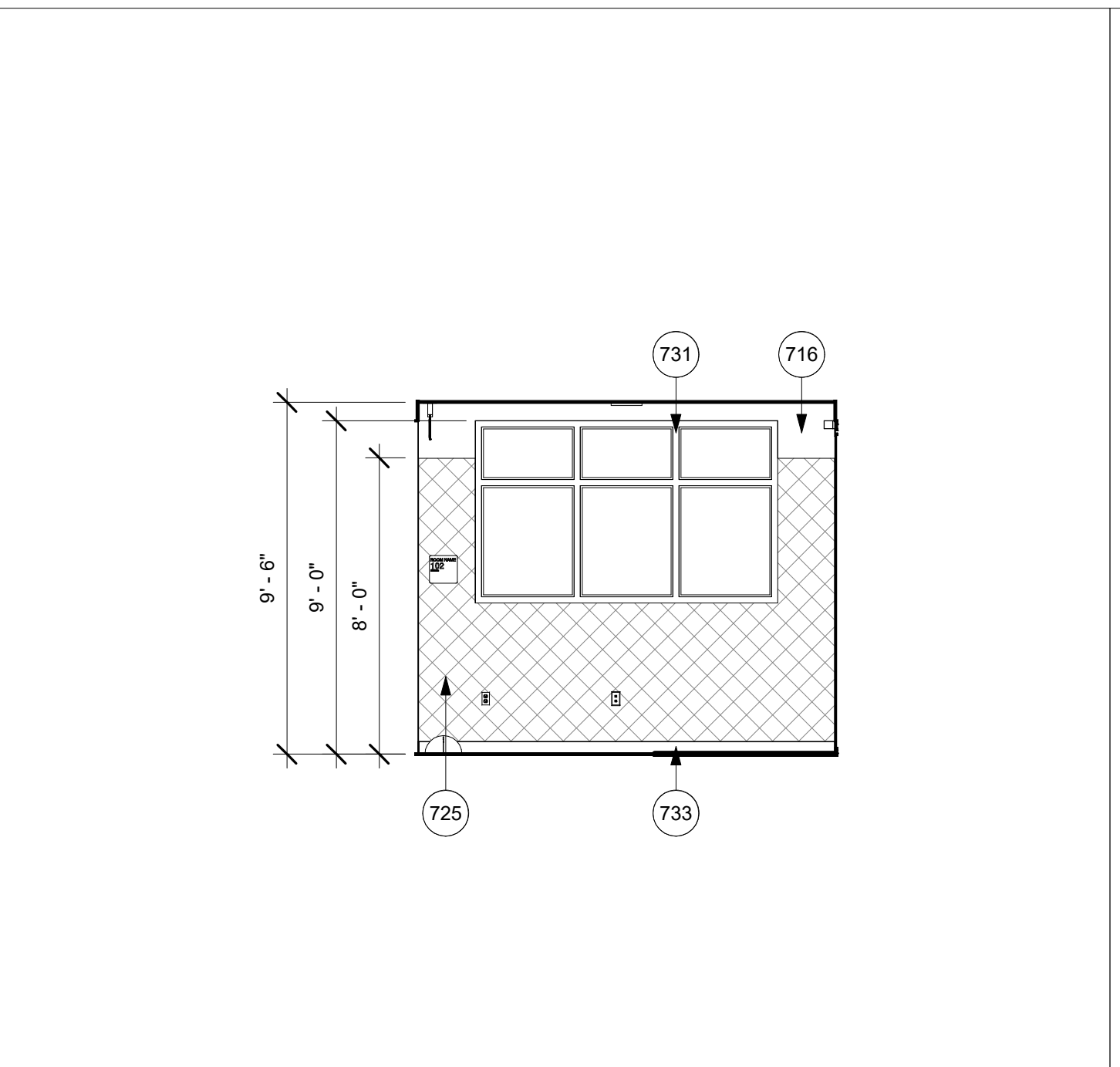
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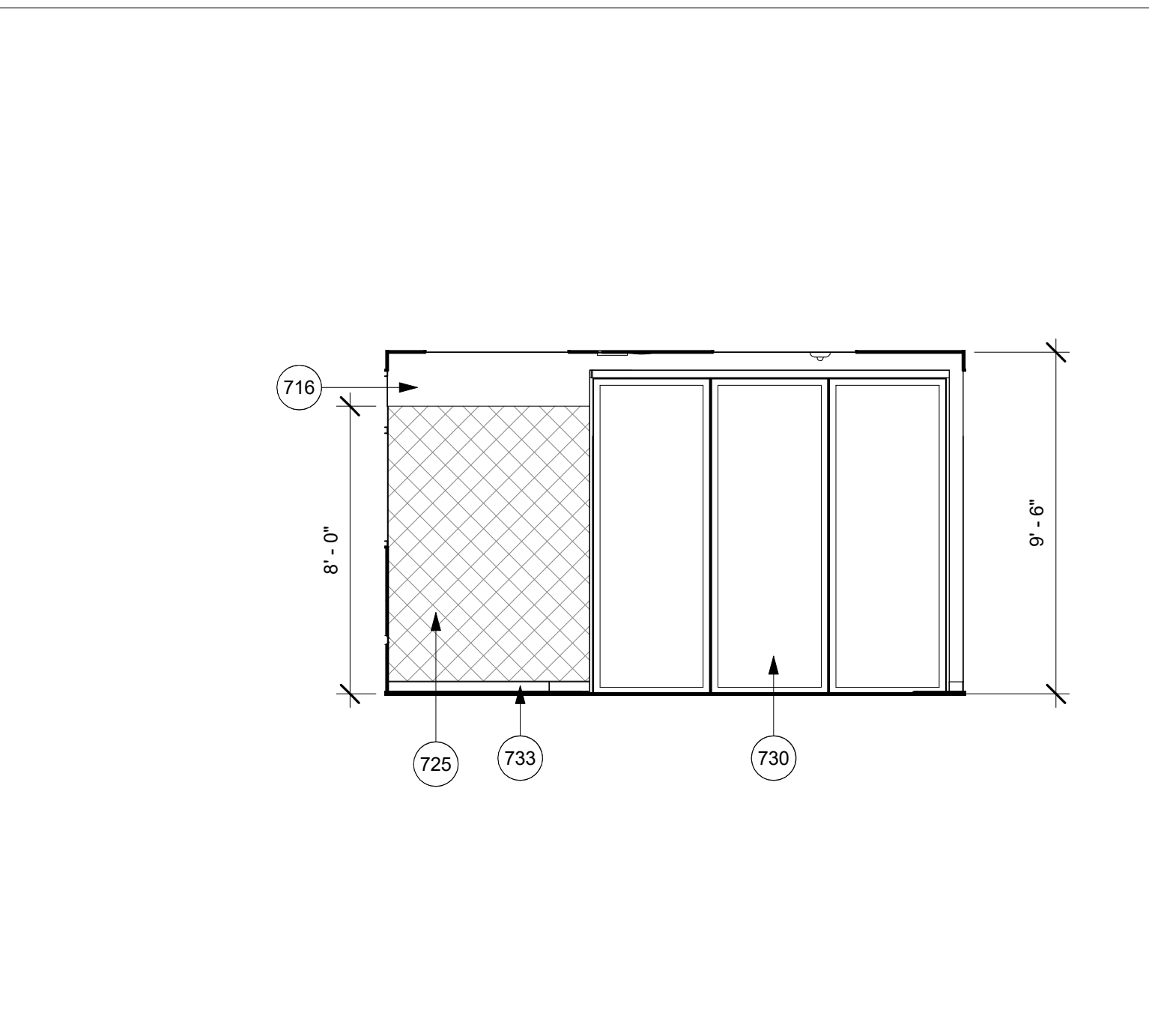
BREAK-OUT/COLLAB 6- NORTH 1/4" = 1'-0" 1



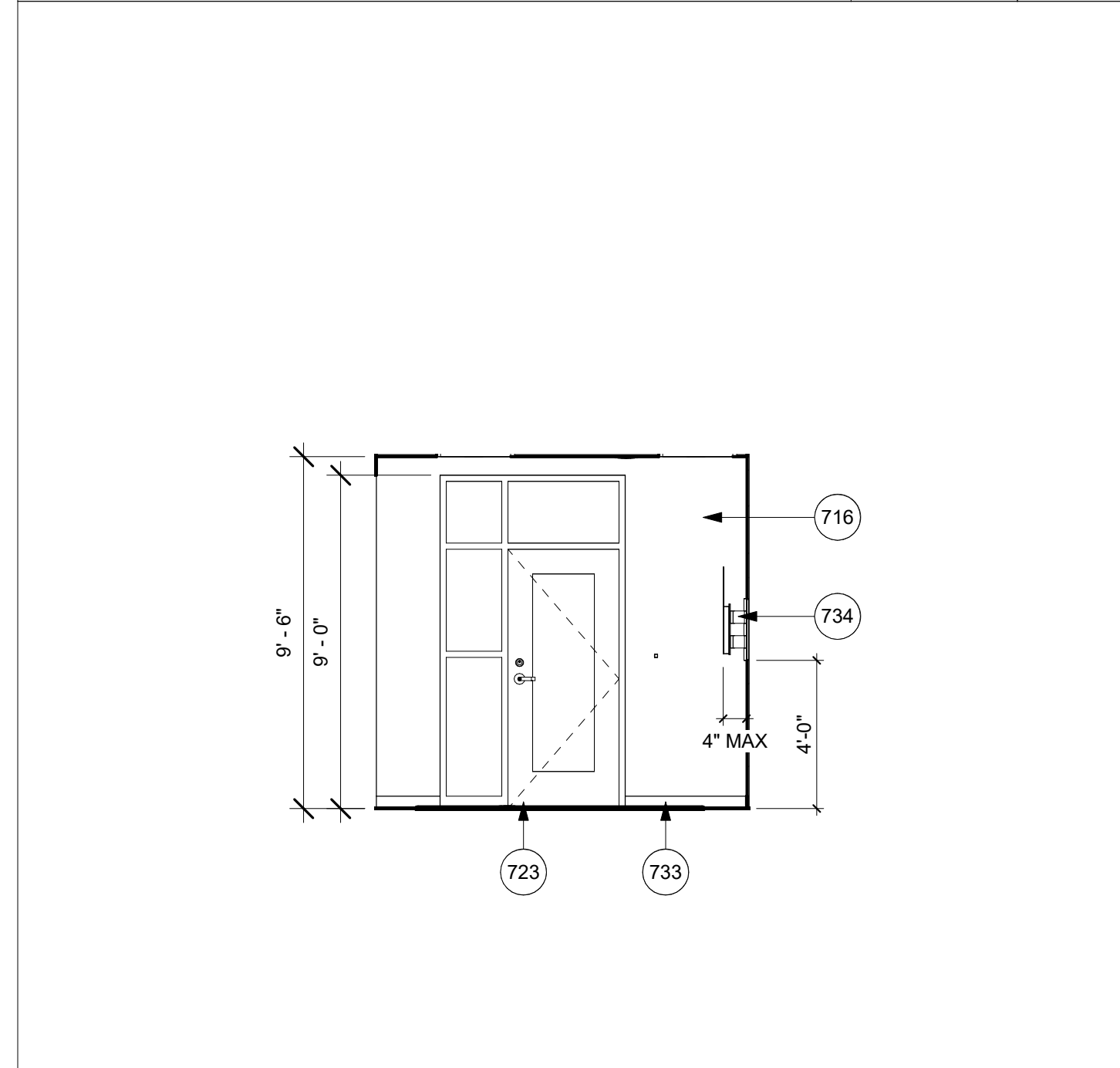
BREAK-OUT/COLLAB 6- EAST 1/4" = 1'-0" 2



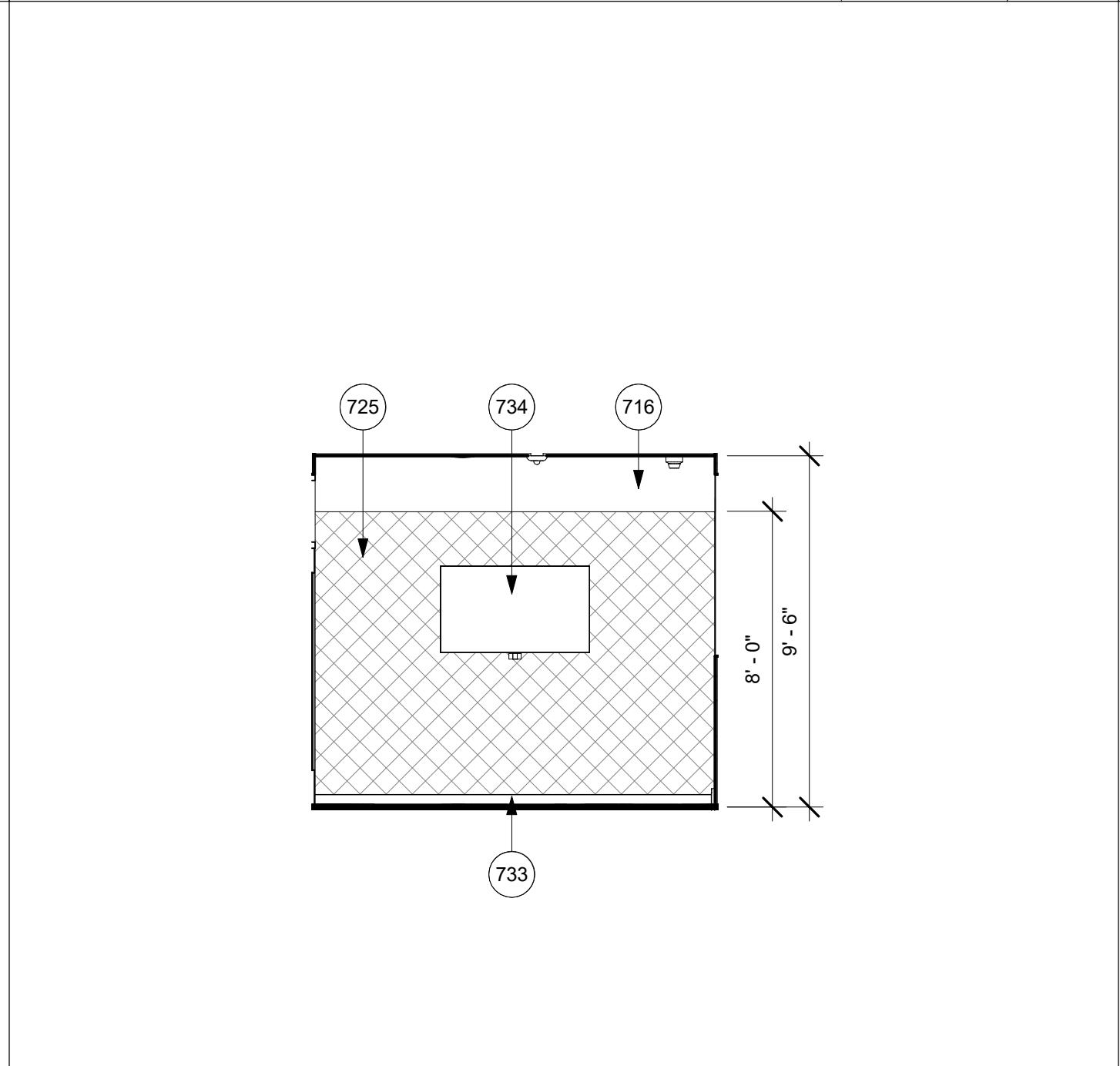
BREAK-OUT/COLLAB 6- SOUTH 1/4" = 1'-0" 3



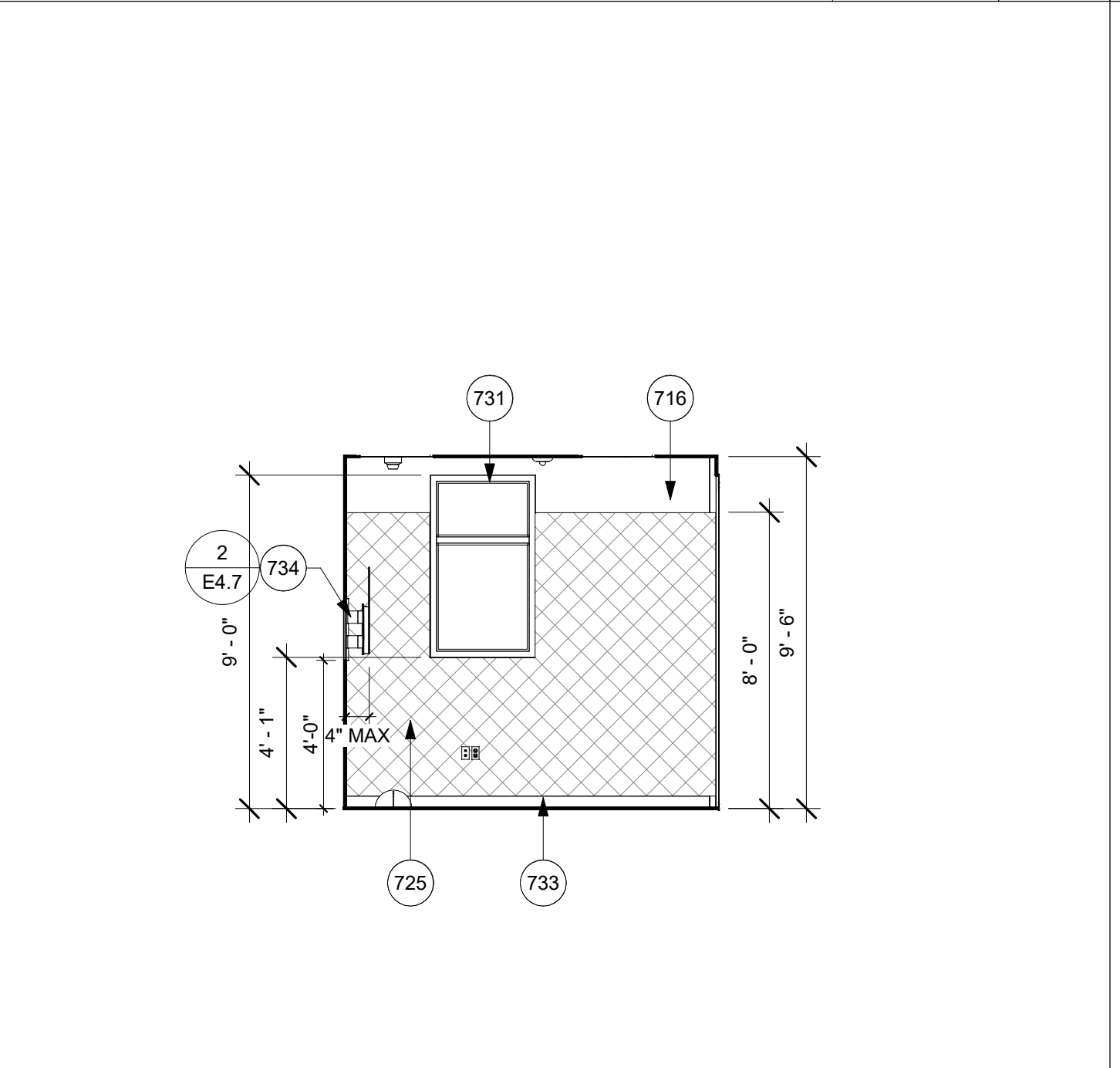
BREAK-OUT COLLAB 6- WEST 1/4" = 1'-0" 4



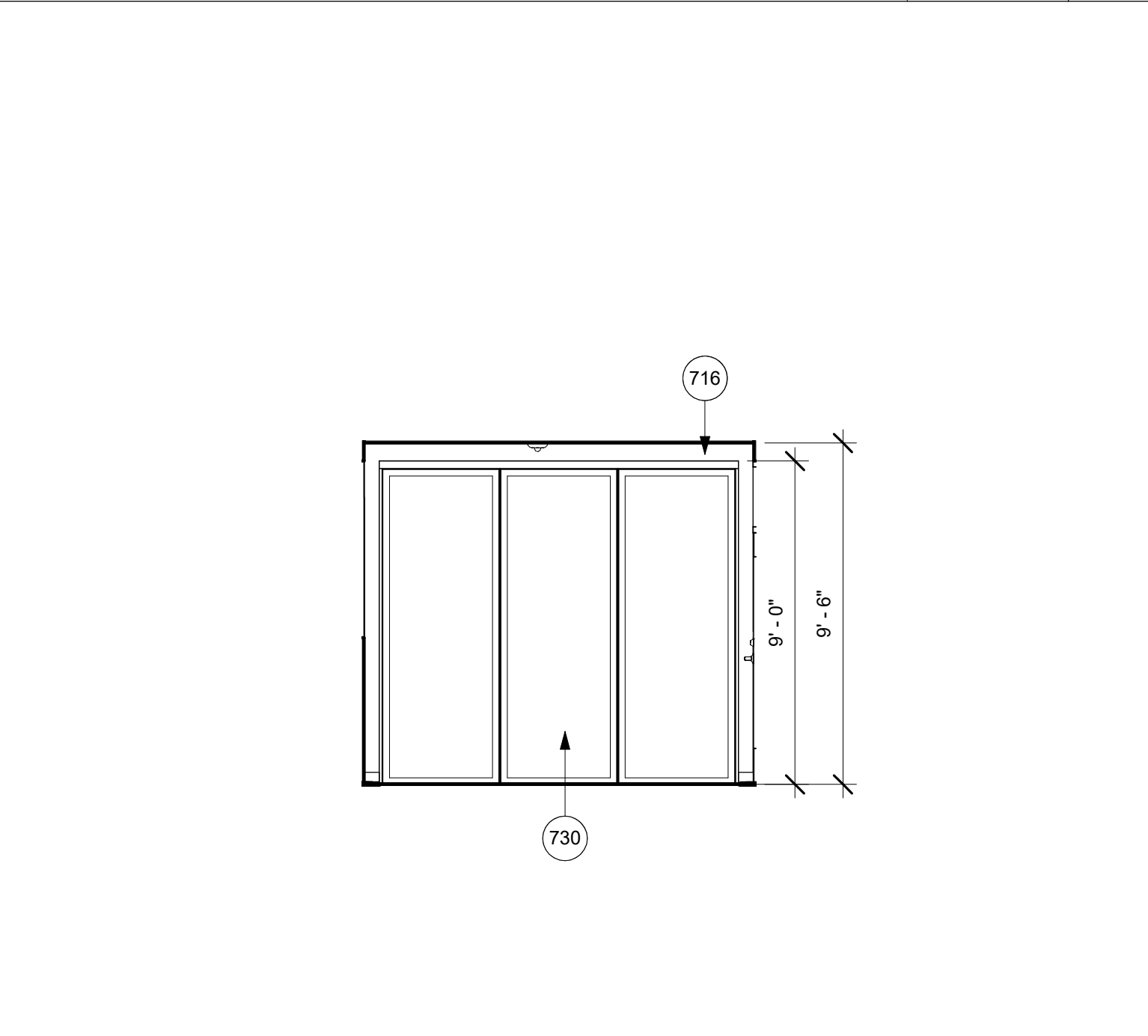
BREAK-OUT/COLLAB 7- NORTH 1/4" = 1'-0" 5



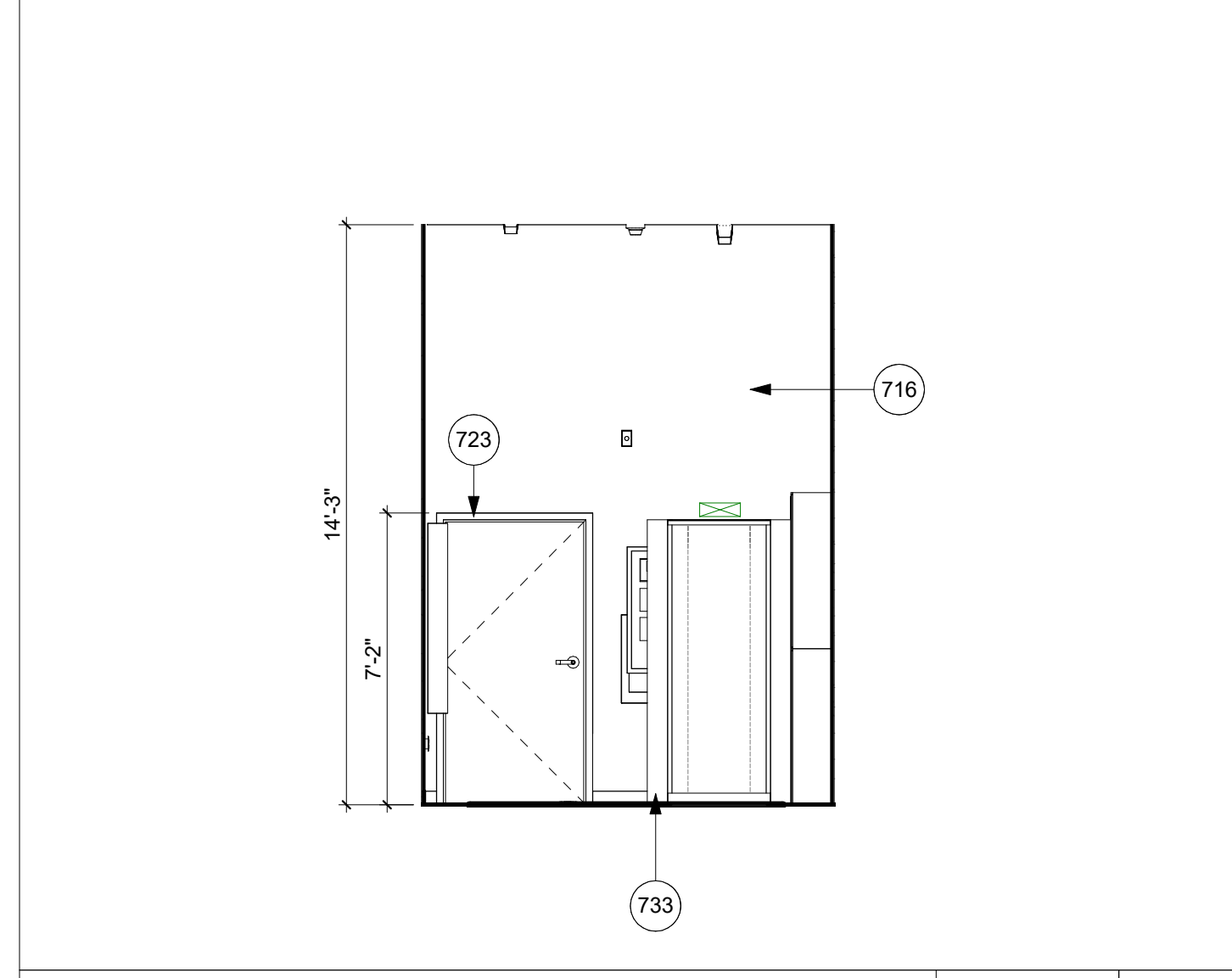
BREAK-OUT/COLLAB 7- EAST 1/4" = 1'-0" 6



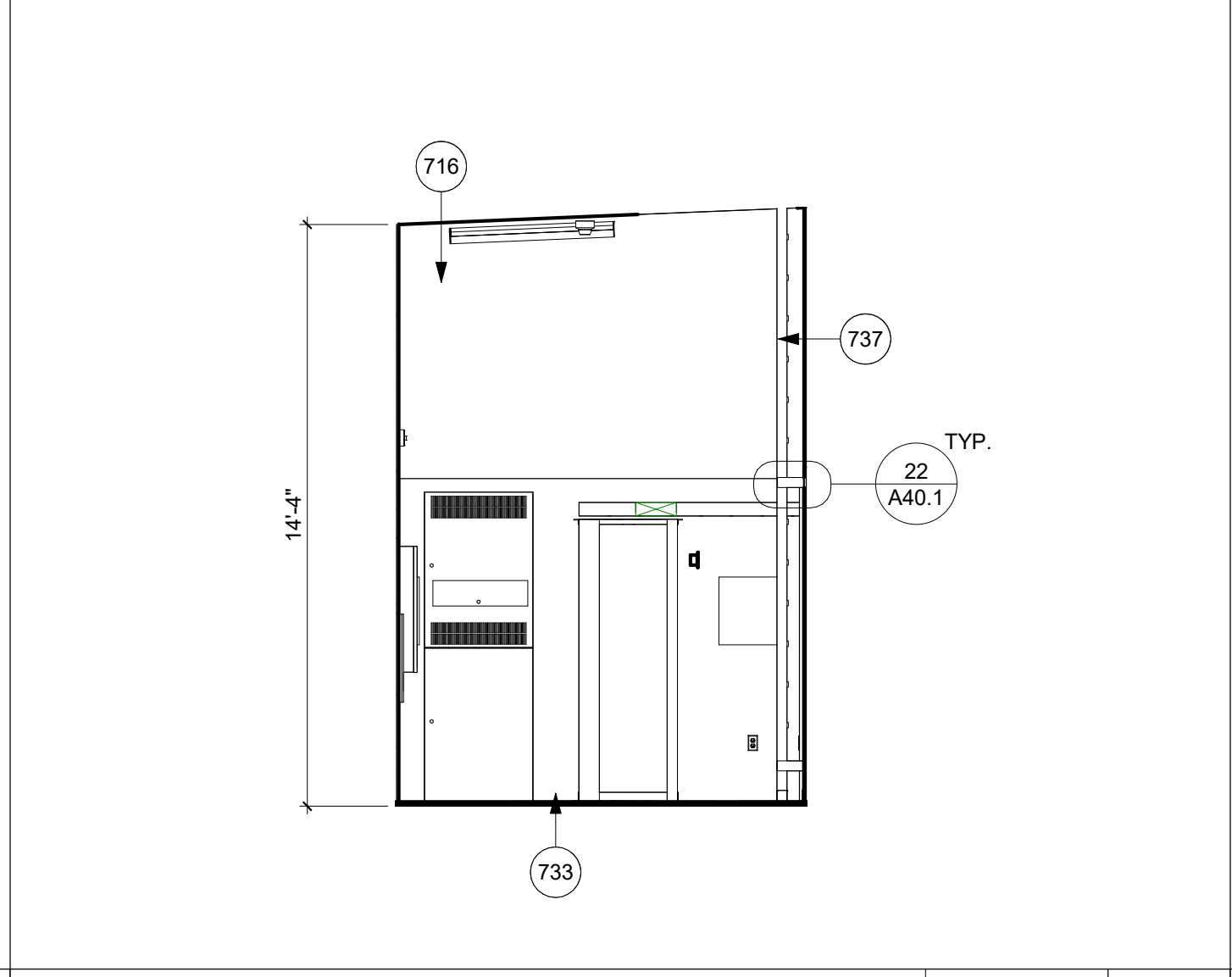
BREAK-OUT/COLLAB 7- SOUTH 1/4" = 1'-0" 7



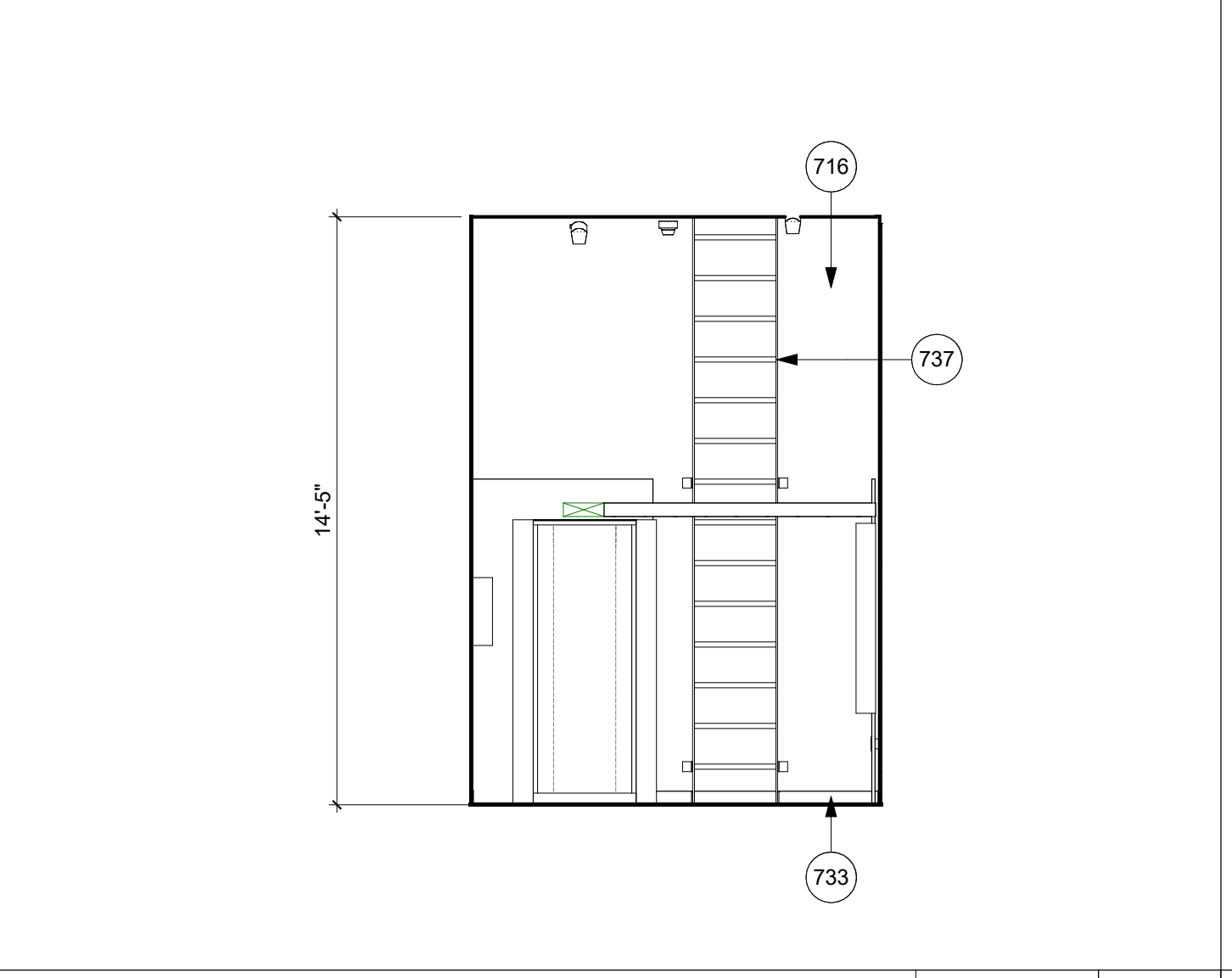
BREAK-OUT/COLLAB 7- WEST 1/4" = 1'-0" 8



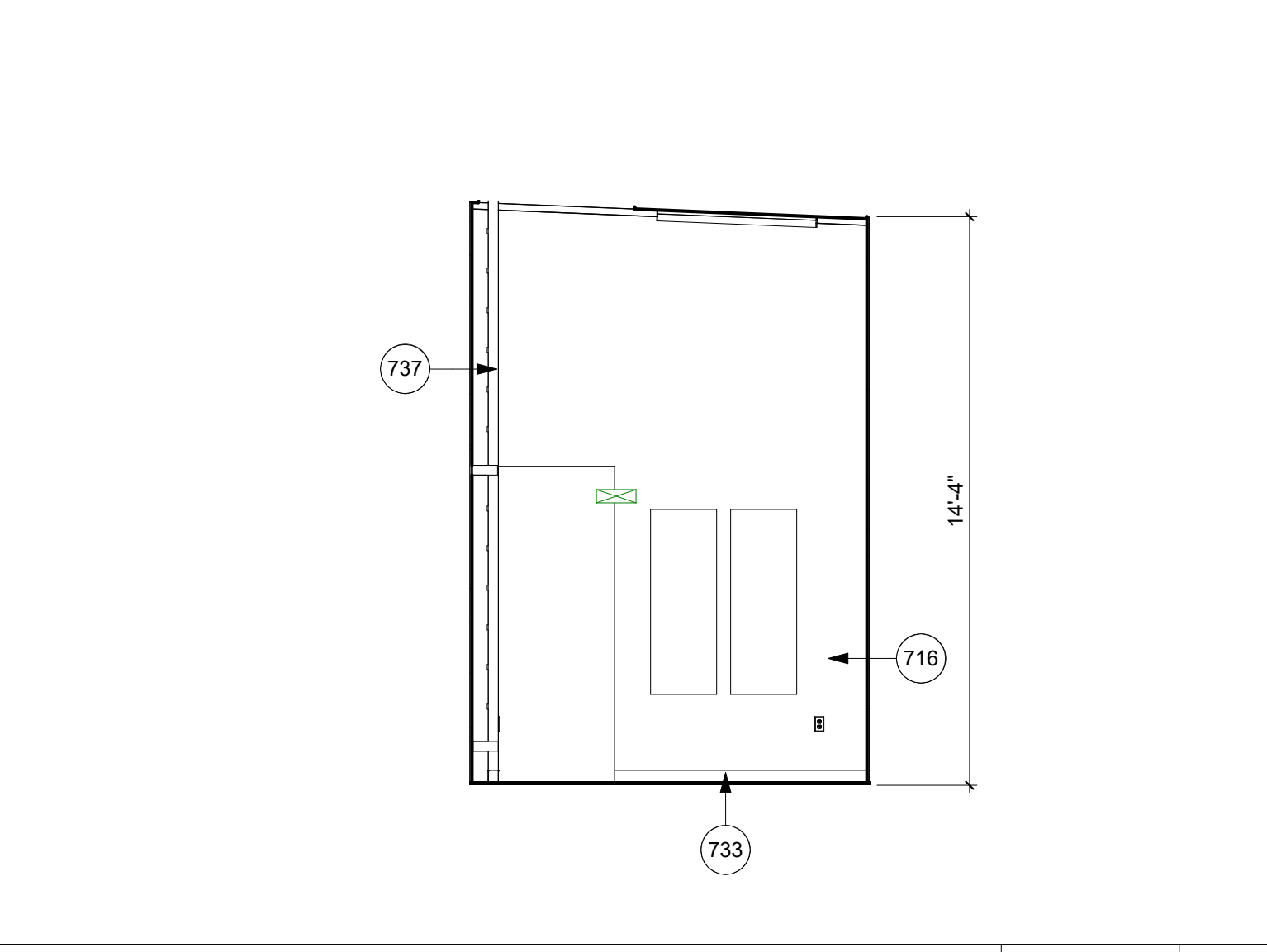
ELECTRICAL- NORTH 1/4" = 1'-0" 9



ELECTRICAL- EAST 1/4" = 1'-0" 10



ELECTRICAL- SOUTH 1/4" = 1'-0" 11



ELECTRICAL- WEST 1/4" = 1'-0" 12

DOOR NO.	ROOM NAME	DOOR SCHEDULE														NOTES		
		WIDTH	HEIGHT	THICKNESS	DOOR			FRAME				HARDWARE						
					DOOR TYPE	FINISH	CONSTRUCTION	GLASS TYPE	FIRE RATING	FRAME TYPE	FINISH	CONSTRUCTION	FRAME GLAZING TYPE	HARDWARE GROUP	PANIC HARDWARE	INSIDE LOCKABLE	THRESHOLD REDUCER	
1	TOILET	3'-0"	7'-0"	1 3/4"	2	PT	HM	-	-	F	PT	HM	-	RR-OS	No	No	Yes	
2	LIBRARY / LEARNING RESOURCE CENTER	6'-0"	7'-2"	1 3/4"	4	PT	HM	2	-	B	PT	HM	2	HM-ED-OS	Yes	Yes	Yes	REMOVABLE CENTER MULLION
2B	LIBRARY / LEARNING RESOURCE CENTER	6'-0"	7'-2"	1 3/4"	4	PT	HM	2	-	C	PT	HM	2	HM-ED-OS	Yes	Yes	Yes	REMOVABLE CENTER MULLION
2C	LIBRARY / LEARNING RESOURCE CENTER	6'-0"	7'-2"	1 3/4"	4	PT	HM	2	-	B	PT	HM	2	HM-ED-OS	Yes	Yes	Yes	REMOVABLE CENTER MULLION
3	BOOKROOM	3'-4"	7'-0"	1 3/4"	1	PT	HM	2	-	F	PT	HM	2	CLS-OS2	No	No	Yes	
3B	BOOKROOM	3'-6"	7'-0"	1 3/4"	1	PT	WD	1	-	E	PT	HM	1	CLS-IS	No	No	Yes	
4	CLASSROOM	3'-0"	7'-0"	1 3/4"	4	PT	HM	2	-	F	PT	HM	2	CLS-OS2	No	Yes	Yes	
4B	CLASSROOM	3'-0"	7'-0"	1 3/4"	4	PT	WD	1	-	D	PT	HM	1	CLS-IS	No	Yes	Yes	
5	ENTRY VESTIBULE	3'-0"	7'-0"	1 3/4"	4	PT	HM	2	-	D	PT	HM	2	ED2	No	No	Yes	
6	BREAK-OUT/ COLLAB	3'-0"	7'-0"	1 3/4"	4	PT	HM	2	-	F	PT	HM	2	CLS-OS2	No	Yes	Yes	
6B	BREAK-OUT/ COLLAB	10'-0"	9'-0"	1 3/4"	5	-	GLASS	1	-	G	-	ALUM	-	FLD1	No	No	No	CUT SLAB FOR FLUSH SILL
6C	BREAK-OUT/ COLLAB	10'-0"	9'-0"	1 3/4"	5	-	GLASS	1	-	G	-	ALUM	-	FLD1	No	No	No	FOLD FLAT, CUT SLAB FOR FLUSH SILL
6D	BREAK-OUT/ COLLAB	10'-0"	9'-0"	1 3/4"	5	-	GLASS	1	-	G	-	ALUM	-	FLD1	No	No	No	CUT SLAB FOR FLUSH SILL
7	BREAK-OUT/ COLLAB	3'-0"	7'-0"	1 3/4"	4	PT	WD	1	-	D	PT	HM	1	CLS-IS	No	No	No	
8	ELECT.	3'-6"	7'-0"	1 3/4"	2	PT	HM	2	-	F	PT	HM	2	LV-EXT1	No	No	Yes	
9	STORAGE	3'-0"	7'-0"	1 3/4"	2	PT	WD	1	-	F	PT	HM	2	SR1	No	No	No	
10	CLASSROOM	6'-0"	7'-2"	1 3/4"	4	PT	HM	2	-	A	PT	HM	2	HM-ED-OS	Yes	Yes	Yes	REMOVABLE CENTER MULLION
10B	CLASSROOM	14'-0"	9'-0"	1 3/4"	6	-	GLASS	2	-	G	-	ALUM	-	FLD2	Yes	No	No	CUT SLAB FOR FLUSH SILL
10C	CLASSROOM	14'-0"	9'-0"	1 3/4"	6	-	GLASS	1	-	G	-	ALUM	-	FLD1	No	No	No	CUT SLAB FOR FLUSH SILL

DOOR AND WINDOW GENERAL NOTES

- FOR HARDWARE SETS, SEE SPECIFICATIONS SECTION 08 71 00
- ALL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT ANY SPECIAL EFFORT OR KNOWLEDGE
- ALL GLAZING IN THE OPERABLE PORTION OF DOORS SHALL BE TEMPERED
- CONTRACTOR TO COORDINATE PLYWOOD SHEAR AND ADJUST WALL TYPE AND FRAME PROFILE SIZES AS REQUIRED
- WHERE FLOOR STOPS OR FLOOR MOUNTED HOLD OPENS ARE SPECIFIED THEY SHALL BE LOCATED NO FURTHER THAN 4" FROM A WALL
- REFER TO TITLE 24, CHAPTER 24, SECTION 2406, SAFETY GLAZING, OF THE CBC FOR REQUIREMENTS
- O.H. INDICATES OPPOSITE HAND OF ELEVATION
- SEE MECHANICAL DRAWINGS FOR SIZE OF LOUVERS AND UNDERCUTS

GLAZING NOTES

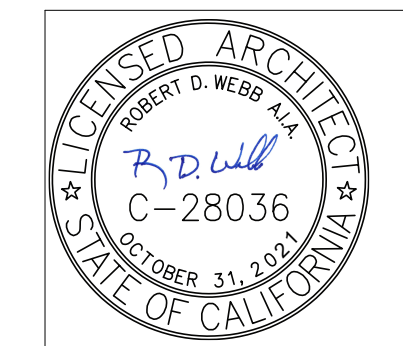
- INTERIOR GLAZING: 1/4" TINTED FLOAT GLASS, PER SPECIFICATION 08 80 00, 2.01 A
 - EXTERIOR GLAZING: 1" DOUBLE PANE TINTED GLASS, PER SPECIFICATION 08 80 00, 2.01 B
- Ⓣ TEMPERED GLASS

WINDOW SCHEDULE					
WINDOW TYPE	FIRE RATING	FRAME ELEVATION	FRAME MATERIAL	GLAZING TYPE	WINDOW SHADES
16	--	G	HM	2	Yes
17	--	A	HM	1	No
18	--	D	HM	1	Yes
18	--	D	HM	1	Yes
19	--	D	HM	2	Yes
19	--	C	HM	2	Yes
20	--	B	HM	2	Yes
21	--	F	HM	1	Yes
23	--	H	HM	2	Yes
23	--	H	HM	2	Yes
23	--	H	HM	2	Yes
24	--	E	HM	2	No
24	--	E	HM	2	No
24	--	E	HM	2	No
24	--	E	HM	2	No
24	--	E	HM	2	No
25	--	D	HM	2	Yes
25	--	D	HM	2	Yes
25	--	D	HM	2	Yes

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-118742 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 02.05.20

Date	
Revision	
Consultant	
Engineer	

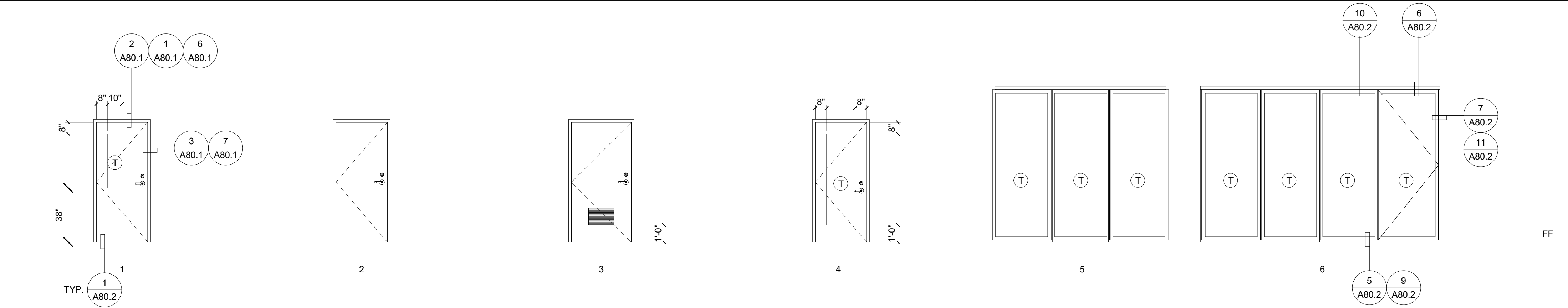
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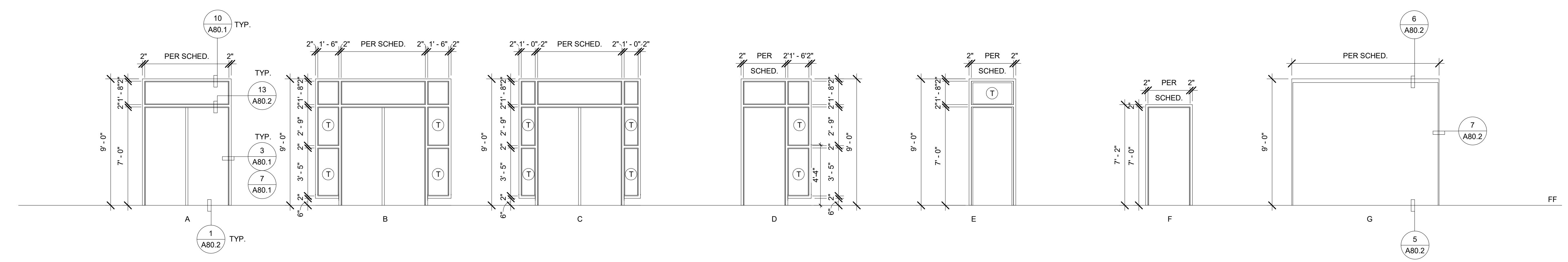
PROSPECT AVENUE ELEMENTARY SCHOOL
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DOOR AND OPENING SCHEDULES

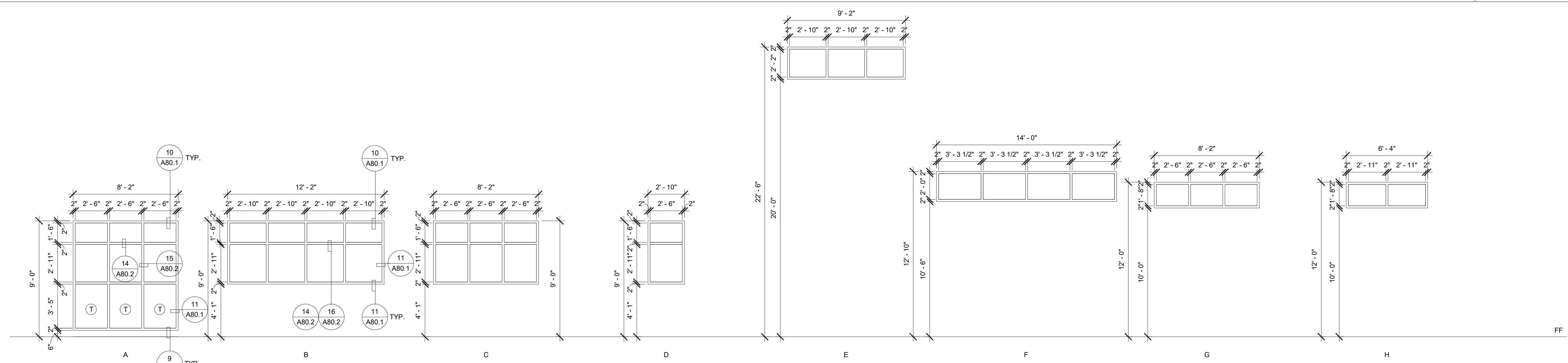
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DOOR TYPES 1/4" = 1'-0"



DOOR FRAME ELEVATIONS 1/4" = 1'-0"



WINDOW FRAME ELEVATIONS 1/4" = 1'-0"

FINISH SCHEDULE										
ROOM NO.	ROOM NAME	FLOOR		WALL			CEILING			NOTES
		FLOOR FINISH	BASE FINISH	WALL MATERIAL	WALL FINISH	WAINSCOT MATERIAL	CEILING MATERIAL	CEILING FINISH	CEILING MATERIAL B	
1	TOILET	CT	CT	GYP	PT	CT	GYP	PT		
2	LIBRARY / LEARNING RESOURCE CENTER	CPT	RB	GYP	PT	T.P.	GYP	PT	ACT	ACT - 2'X2' FLOATING CLOUD
3	BOOKROOM	RES	RB	GYP	PT		ACT			
4	CLASSROOM	CPT	RB	GYP	PT	T.P.	ACT			
5	ENTRY VESTIBULE	RES	RB	GYP	PT	T.P.	ACT			
6	BREAK-OUT/ COLLAB	RES	RB	GYP	PT	T.P.	ACT			
7	BREAK-OUT/ COLLAB	RES	RB	GYP	PT	T.P.	ACT			
8	ELECT.	CONC	CT	GYP	PT		N/A			
9	STORAGE	RES	RB	GYP	PT		ACT			
10	CLASSROOM	RES	RB	GYP	PT	T.P.	ACT			

FLOOR FINISHES

CT - CERAMIC TILE
 CONC - SEALED CONCRETE
 CPT - CARPET
 RES - RESILIENT FLOORING
 RB - RUBBER BASE

WALL FINISHES

CT - CERAMIC TILE
 PT - PAINT

CEILING MATERIALS

GYP - GYPSUM WALLBOARD
 ACT - ACOUSTICAL TILE

WALL MATERIALS

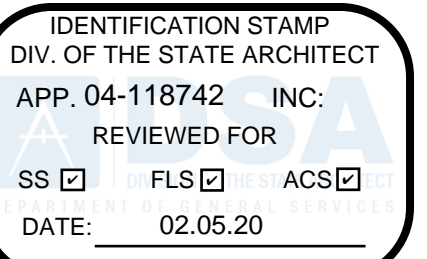
GYP - GYPSUM WALL BOARD

WAINSCOT MATERIALS

CT - CERAMIC TILE
 T.P. - TACKPANEL

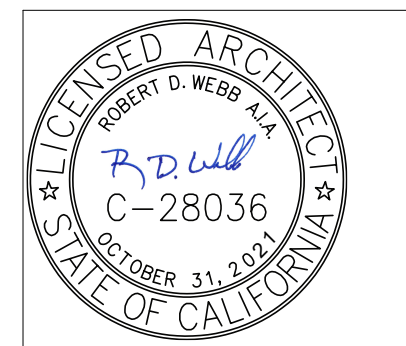
CEILING FINISHES

PT - PAINT



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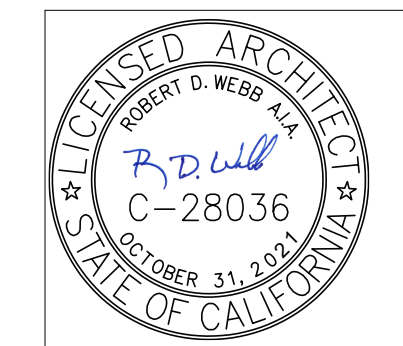
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ROOM FINISH SCHEDULE

Drawn:
 Author:
 Checked:
 Checker:
 Date:
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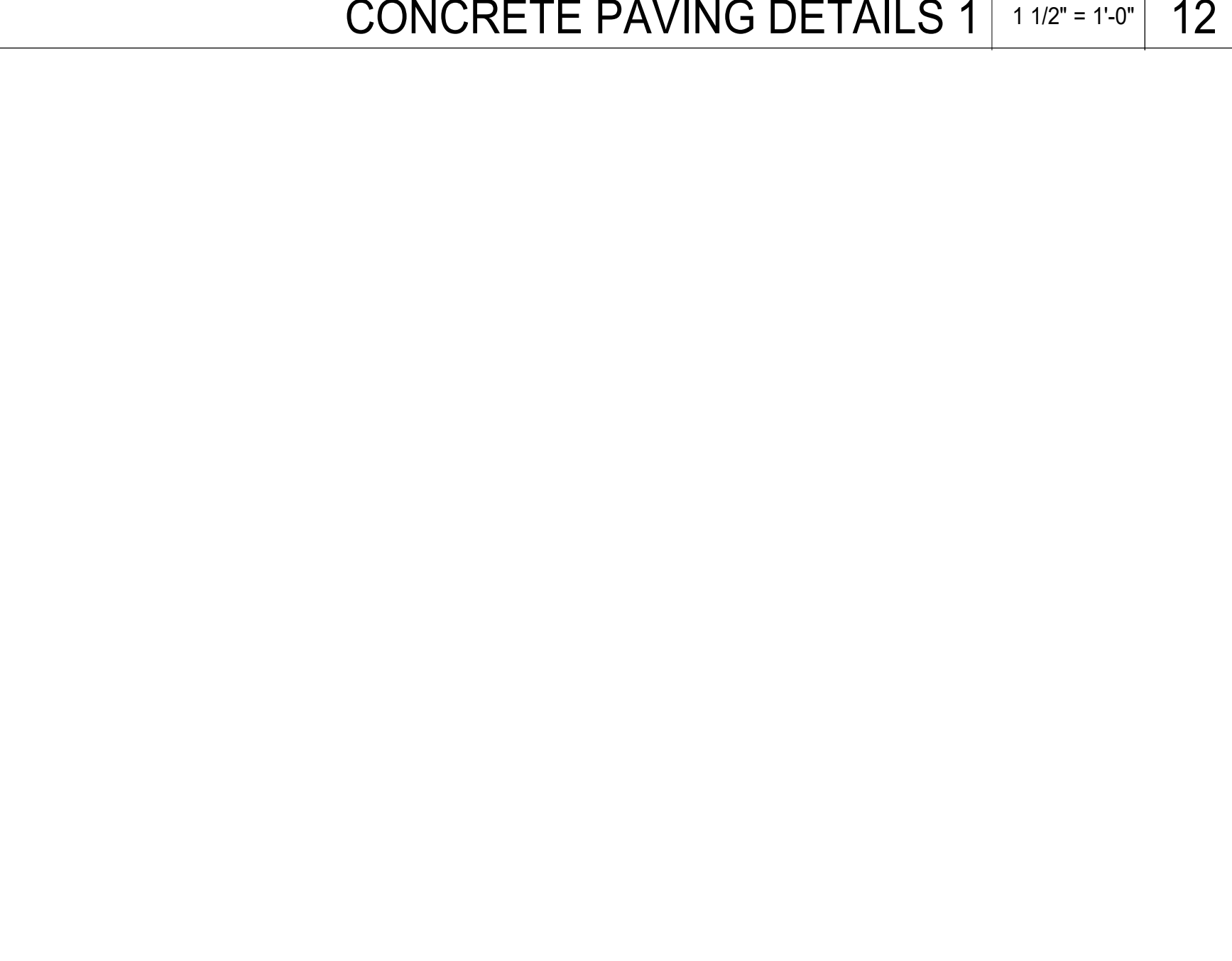
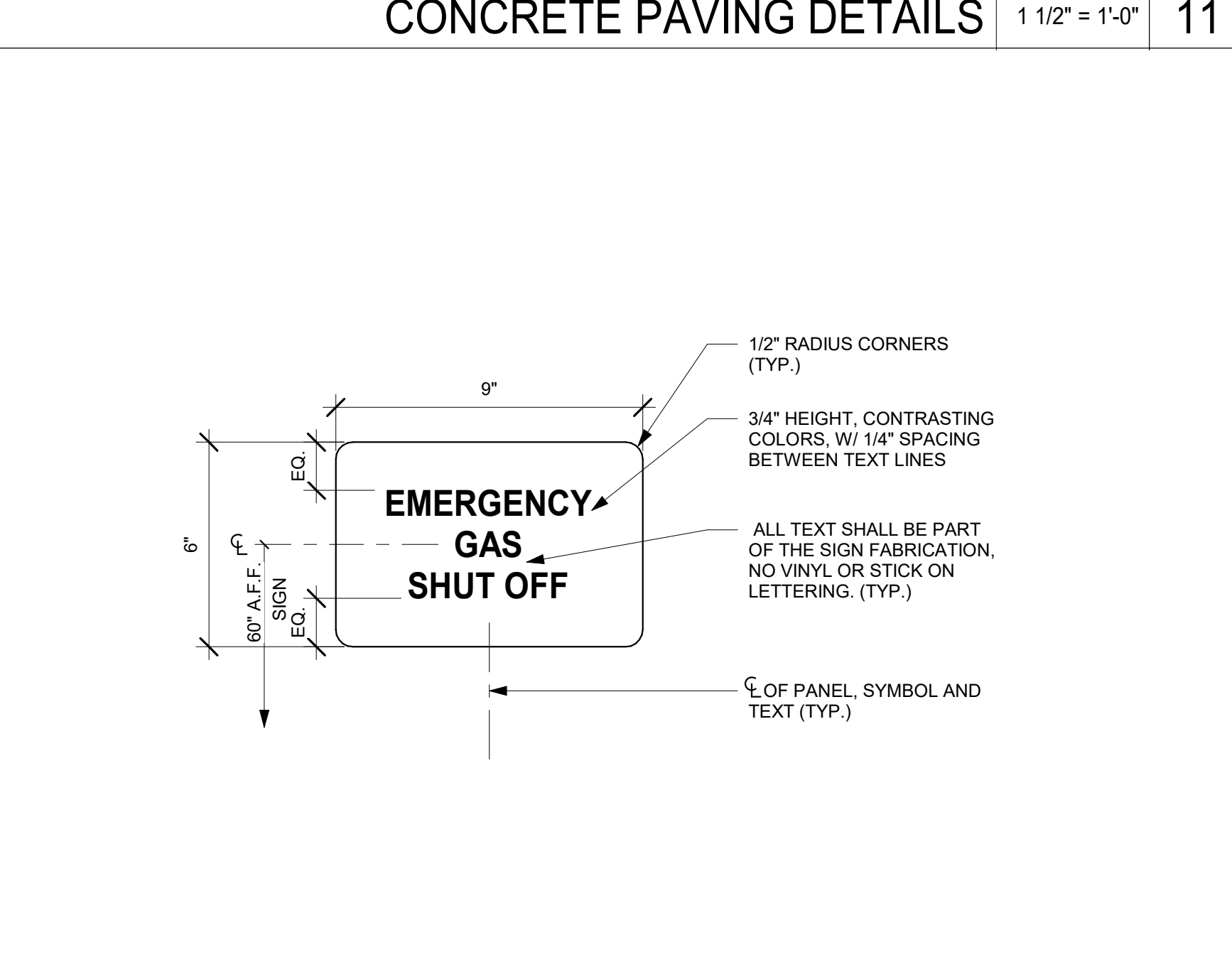
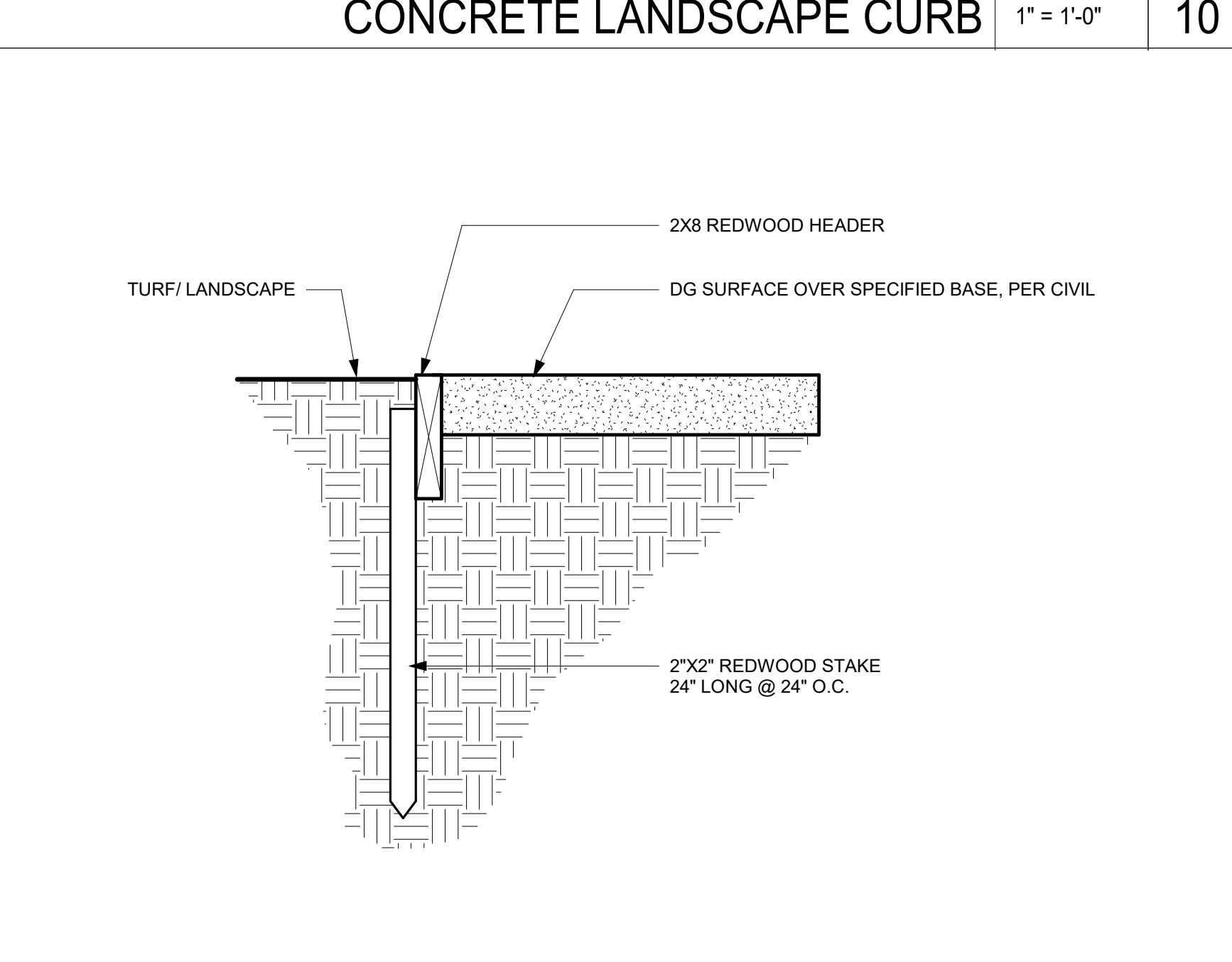
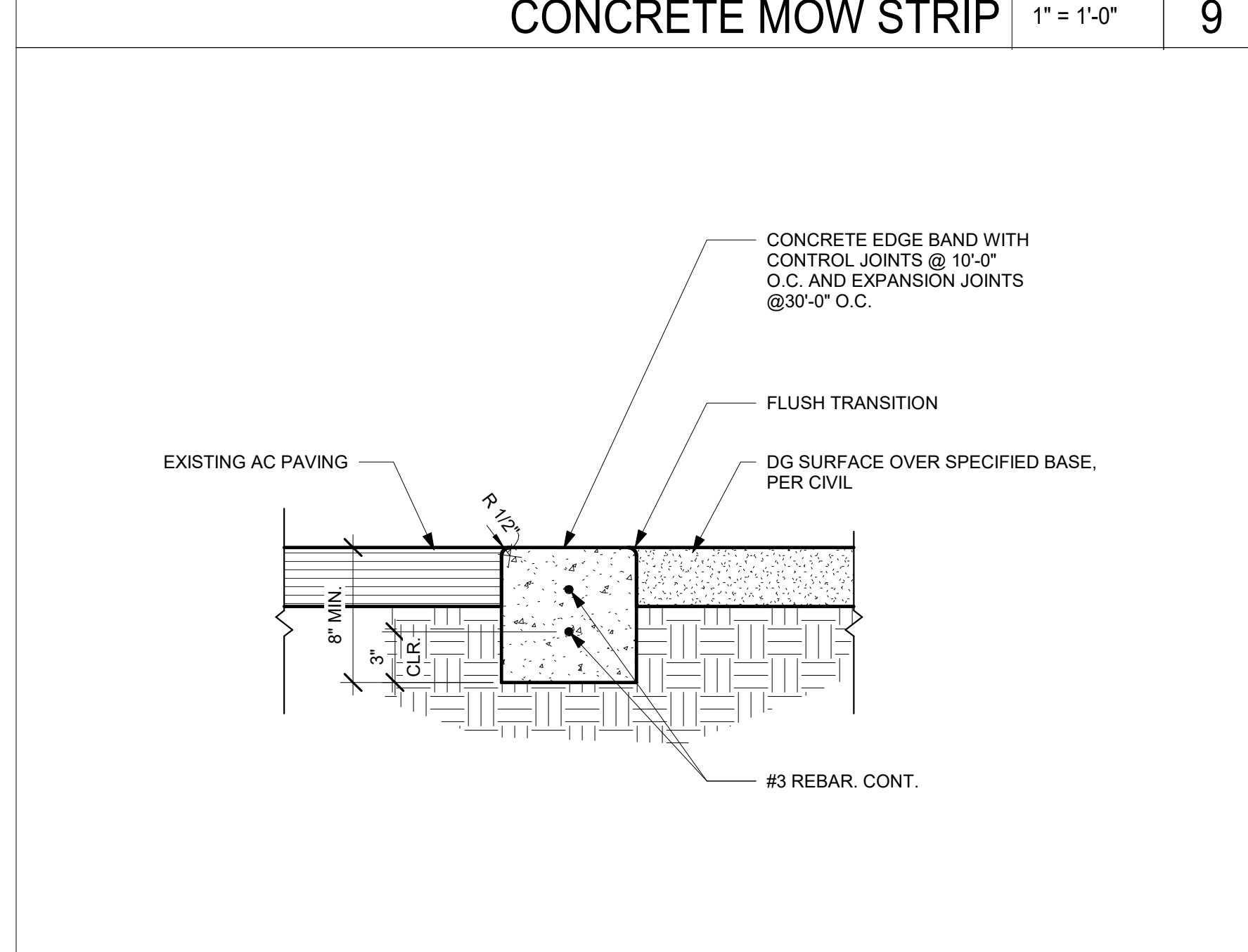
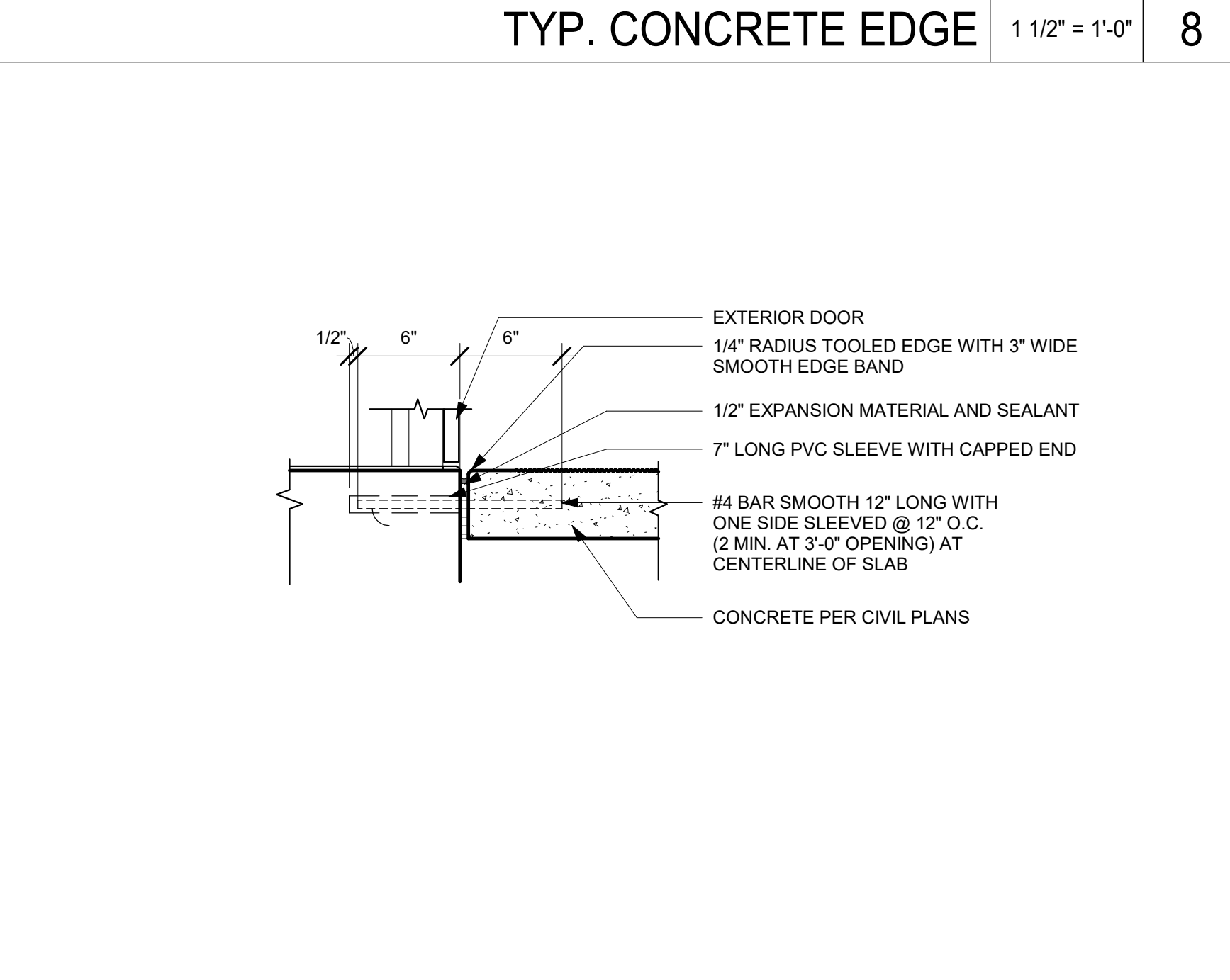
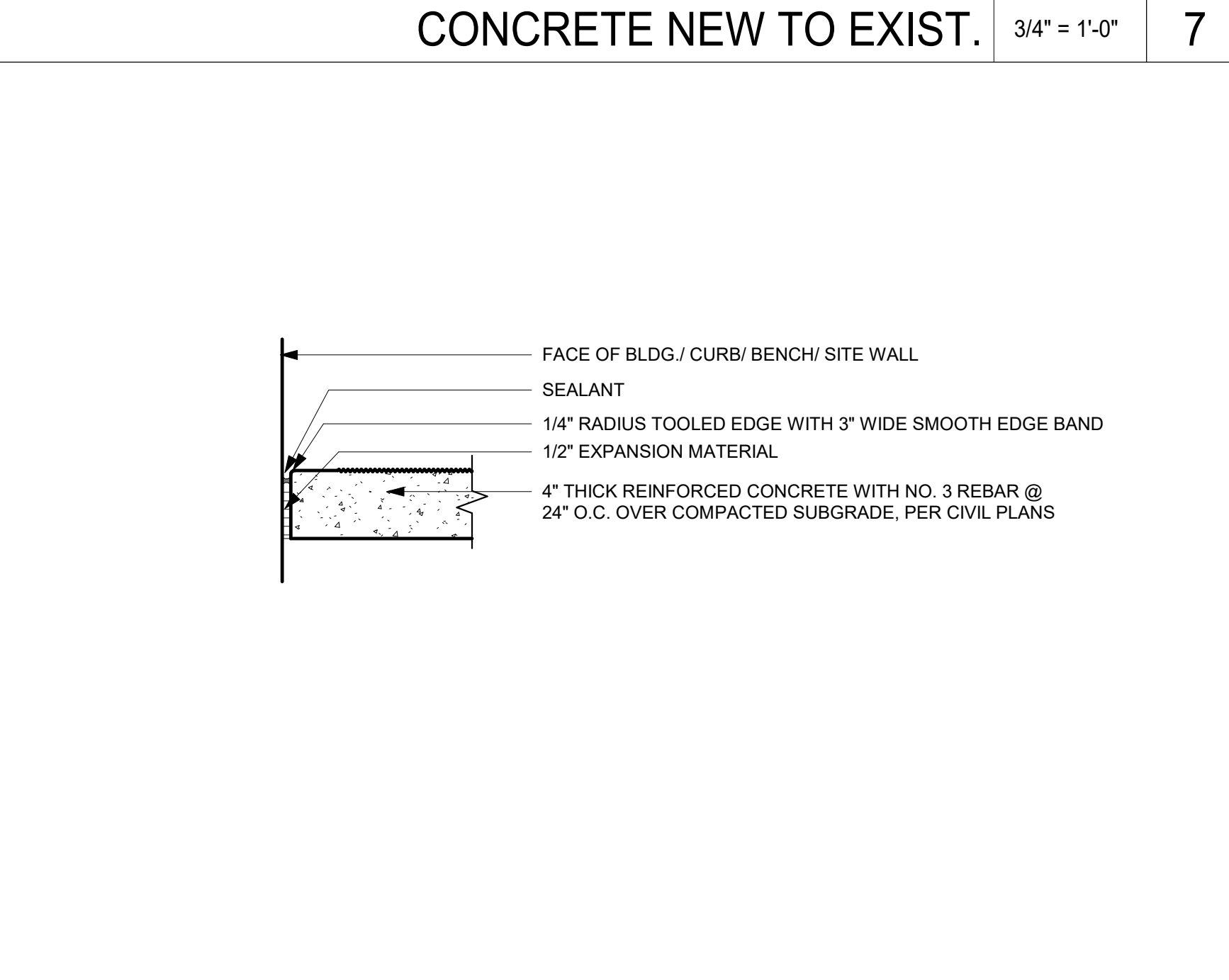
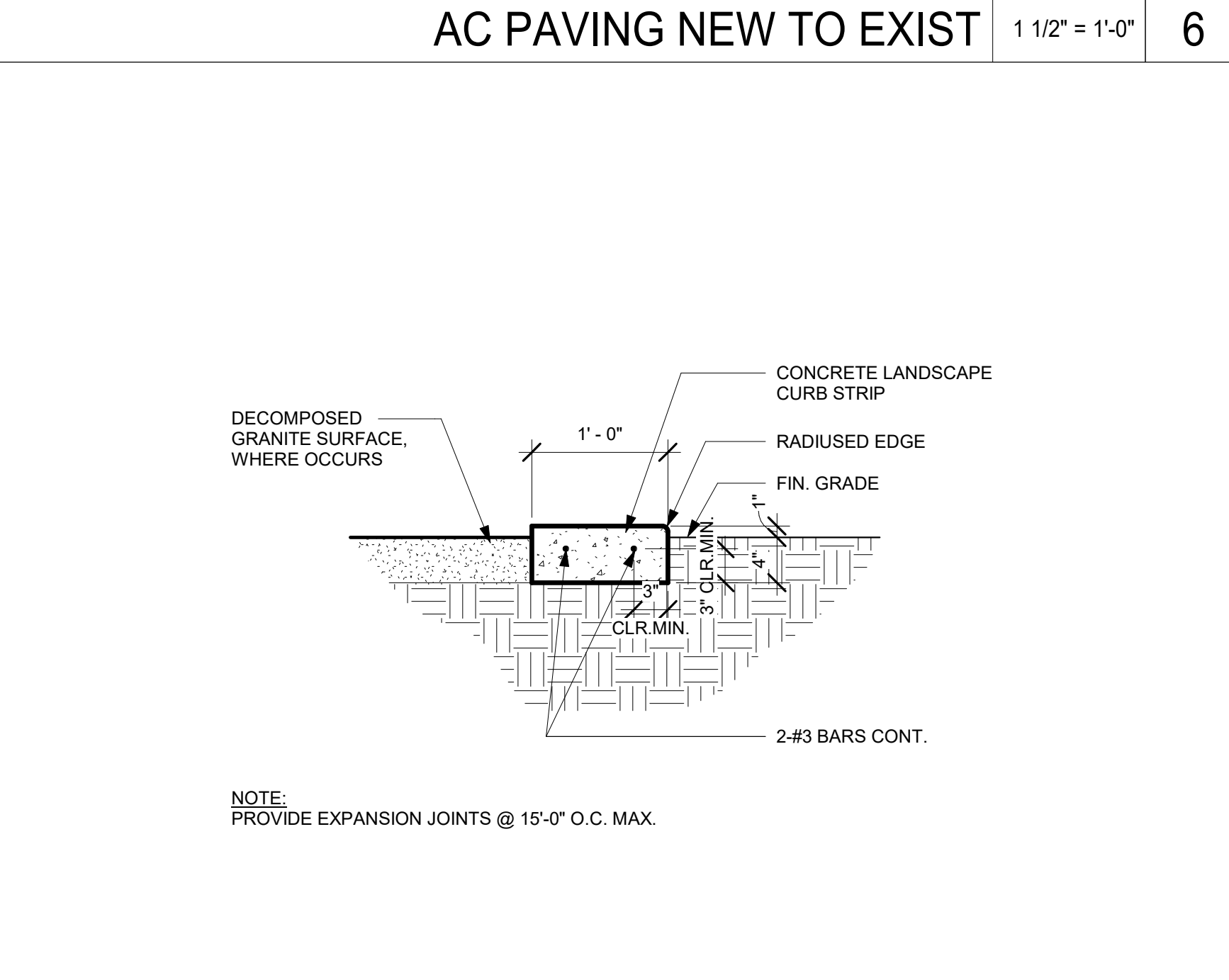
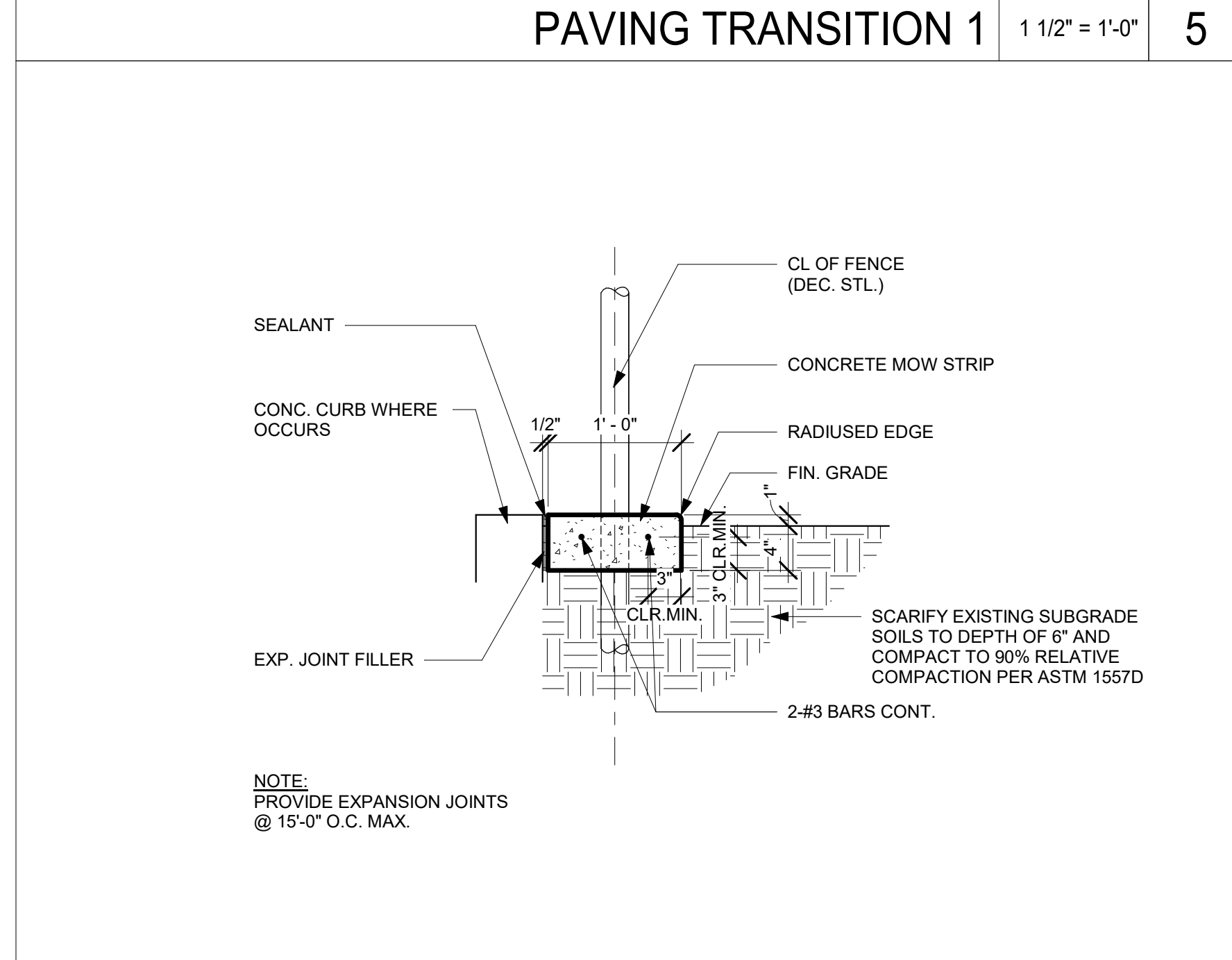
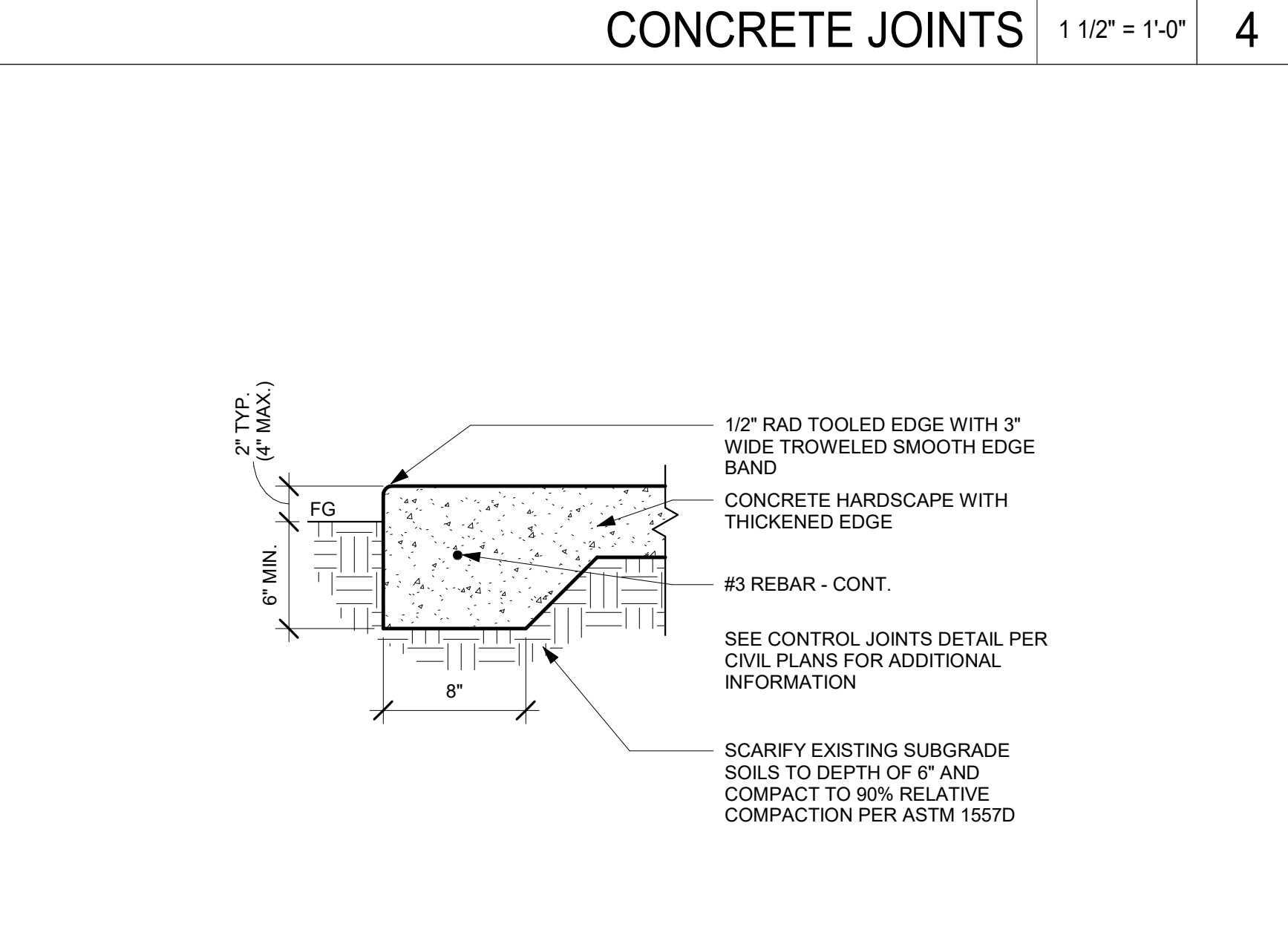
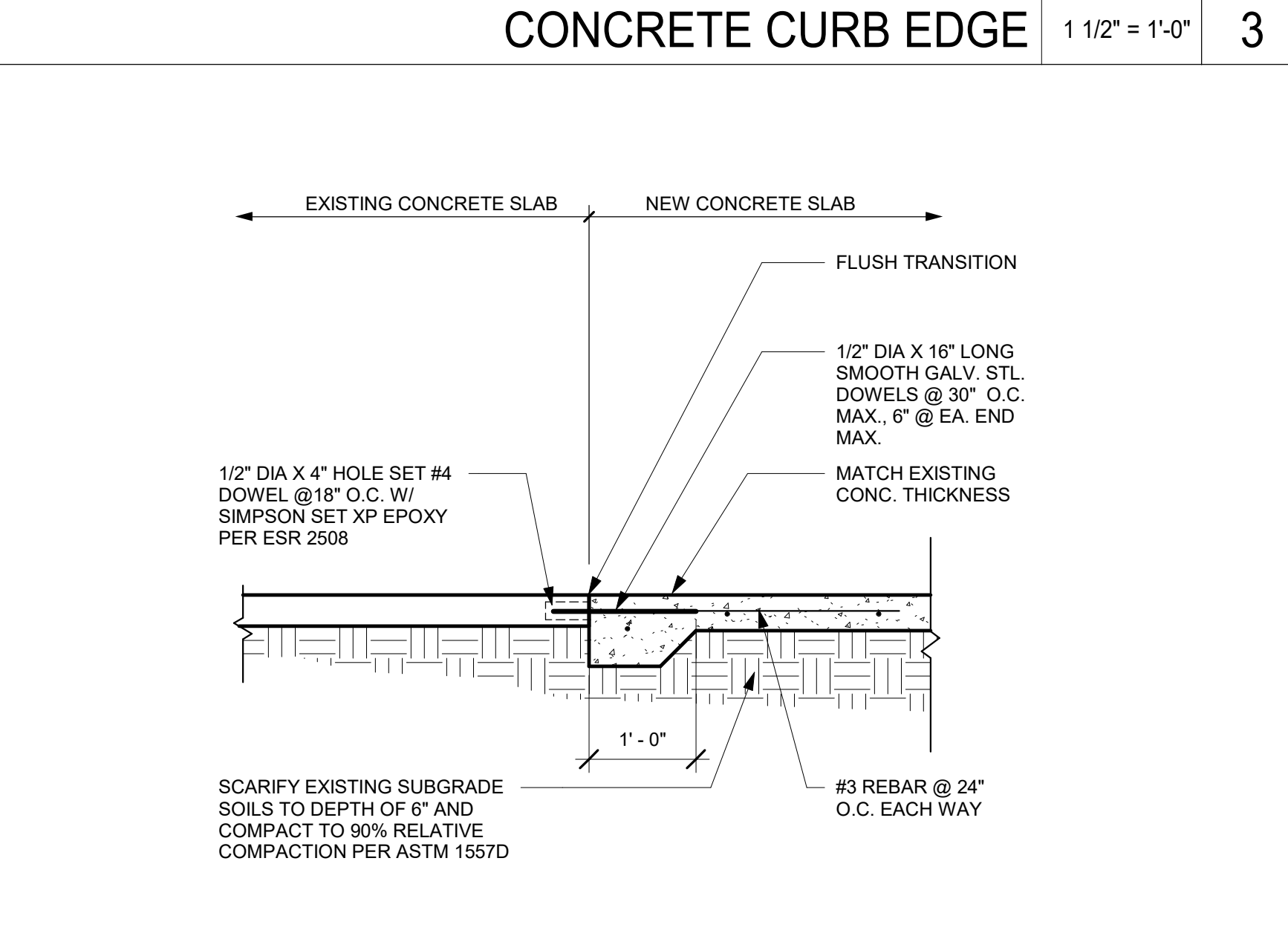
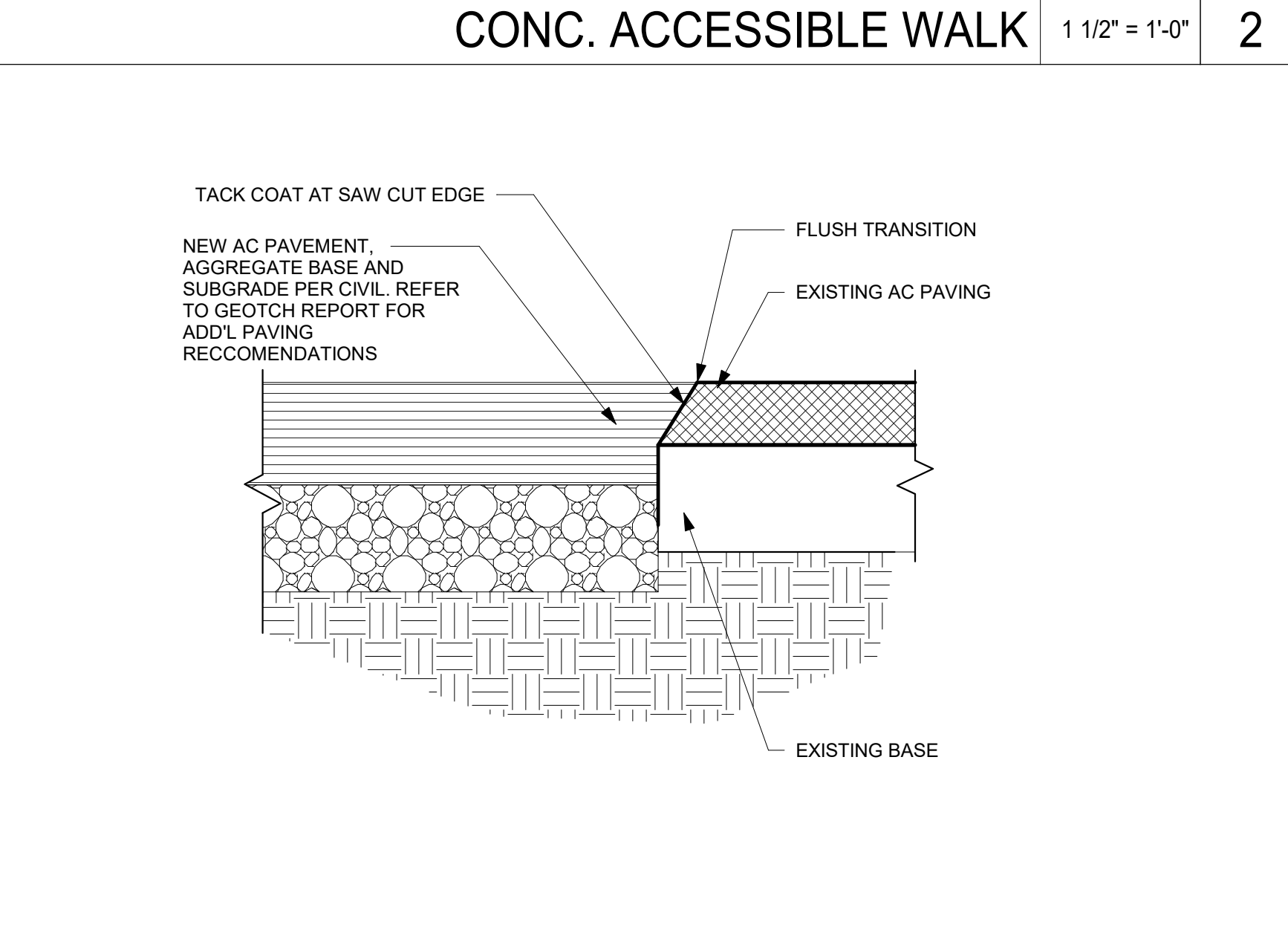
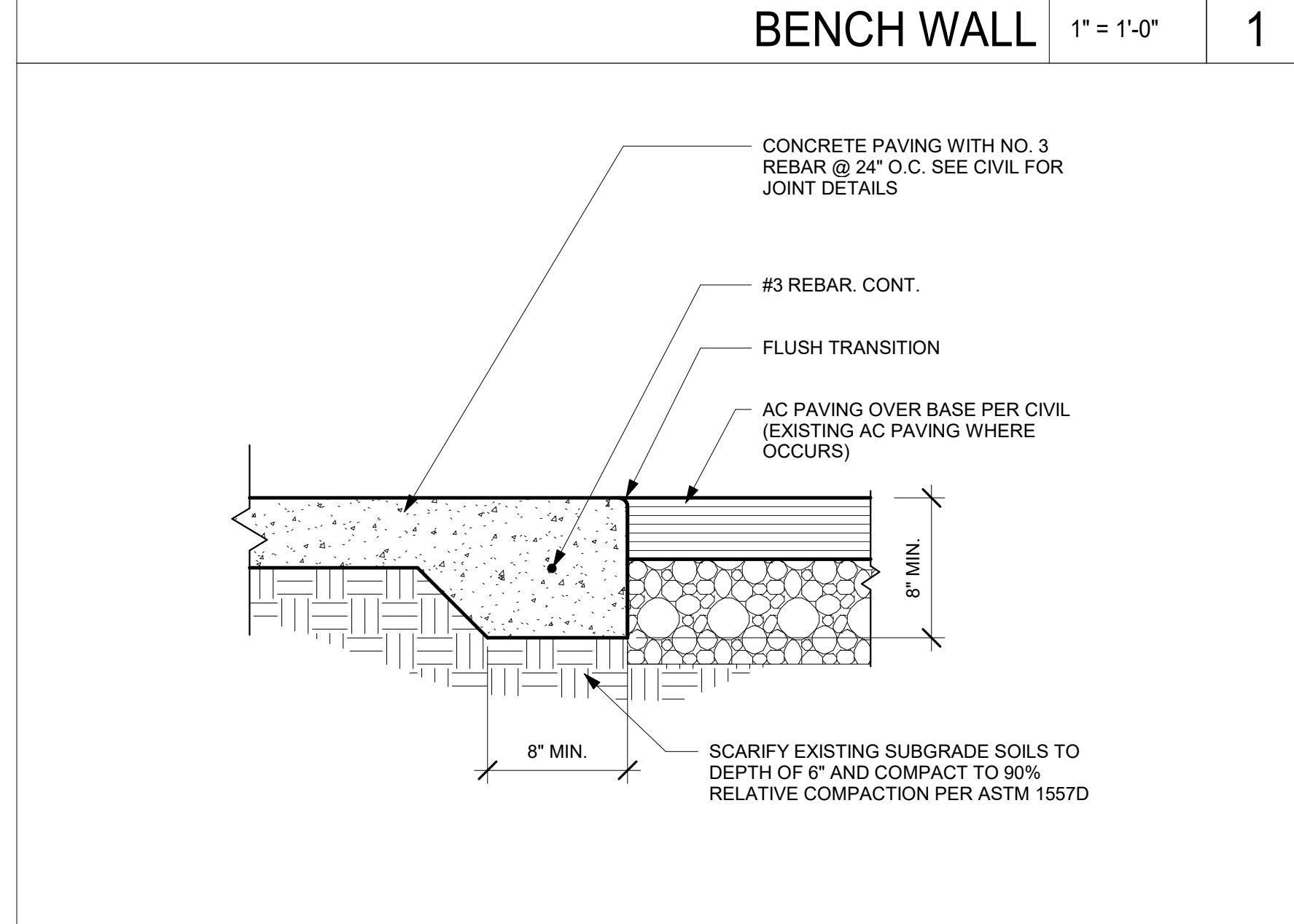
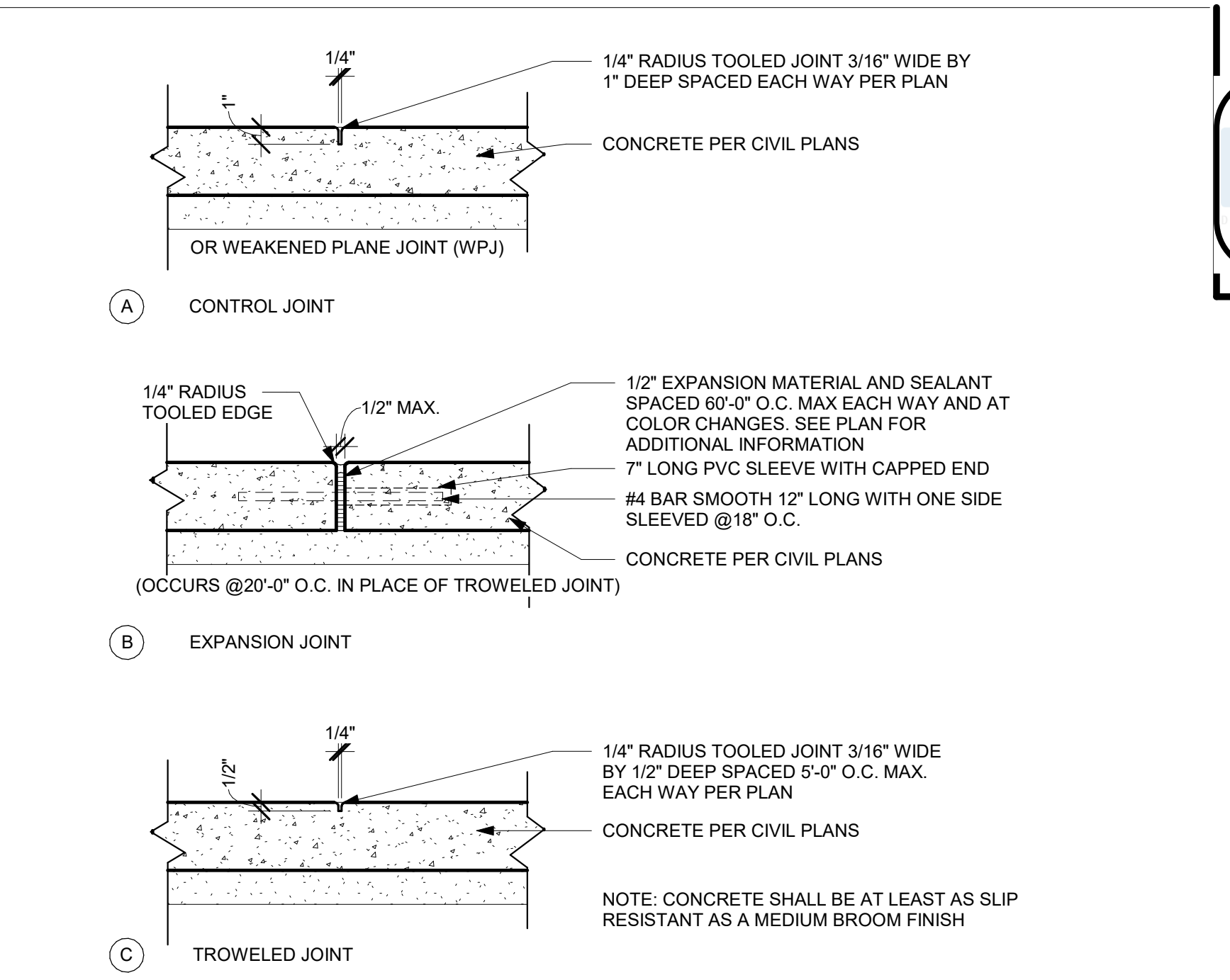
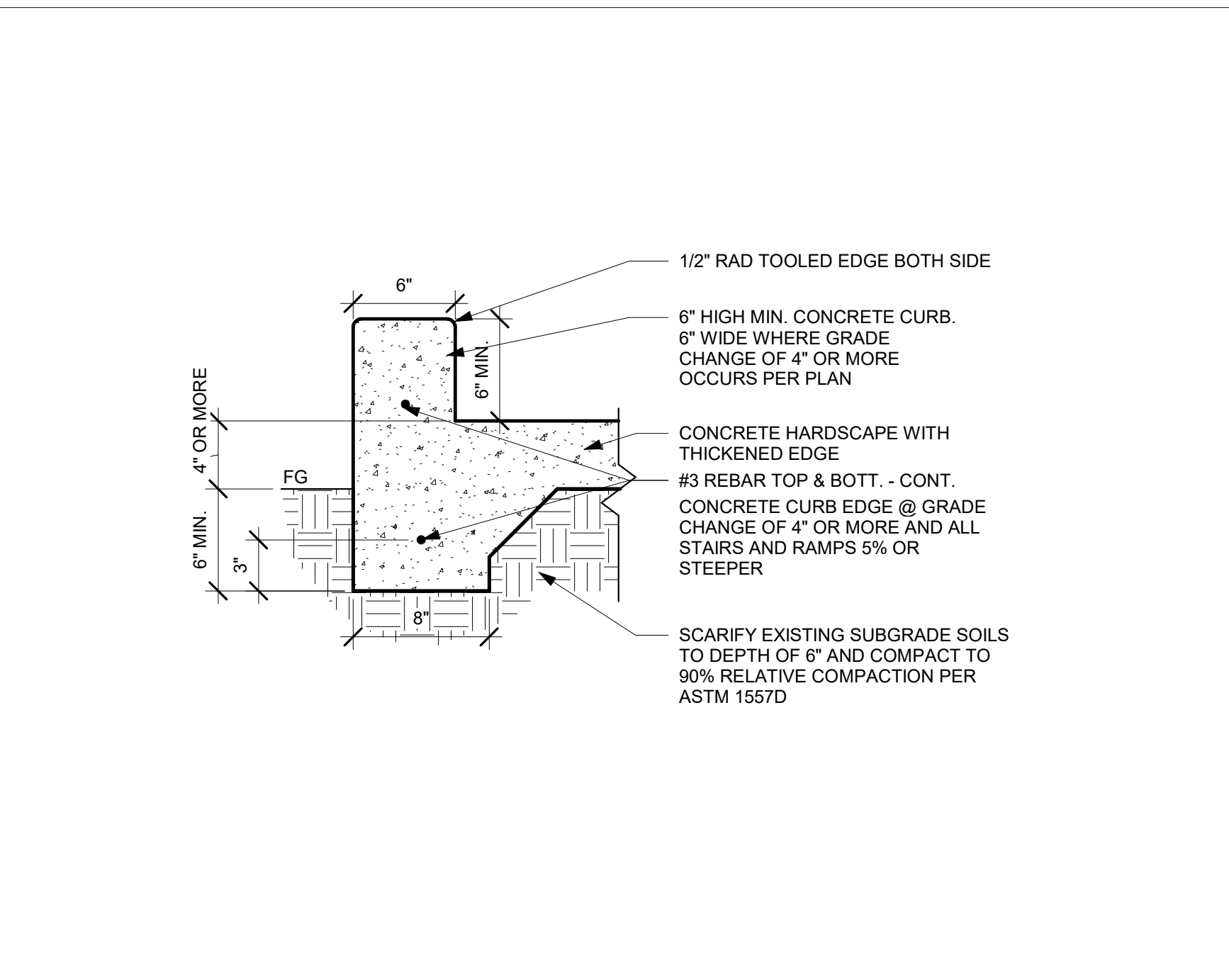
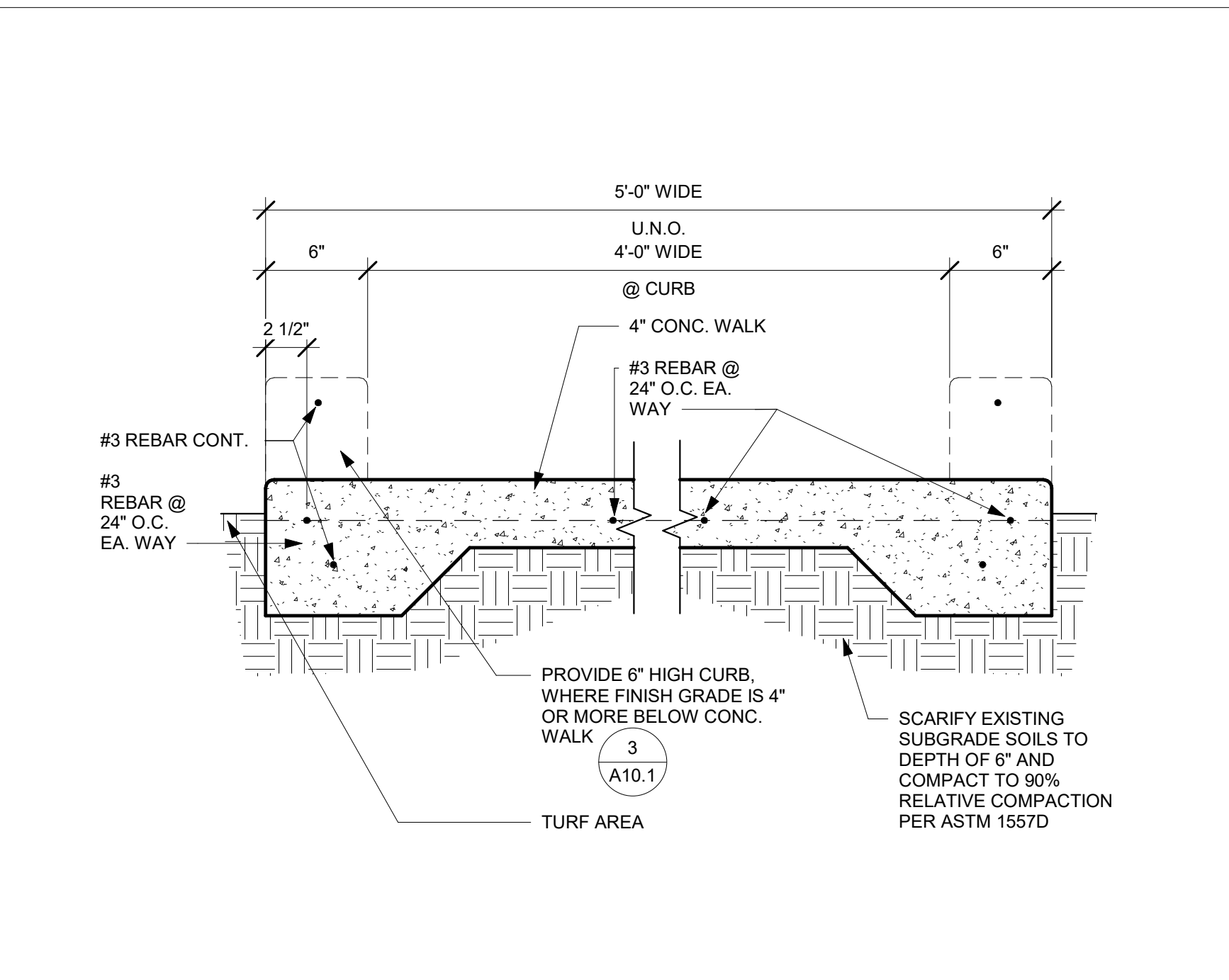
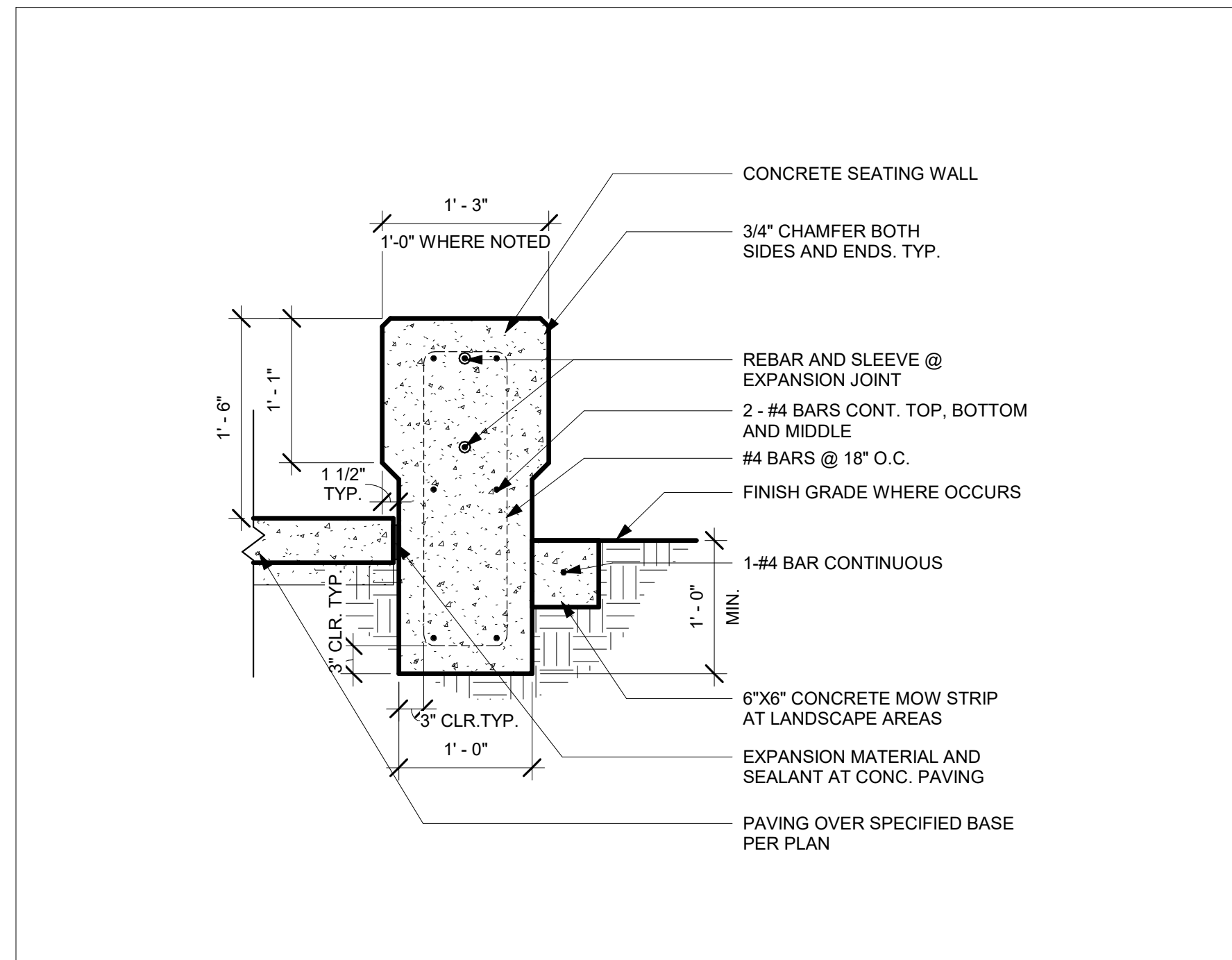
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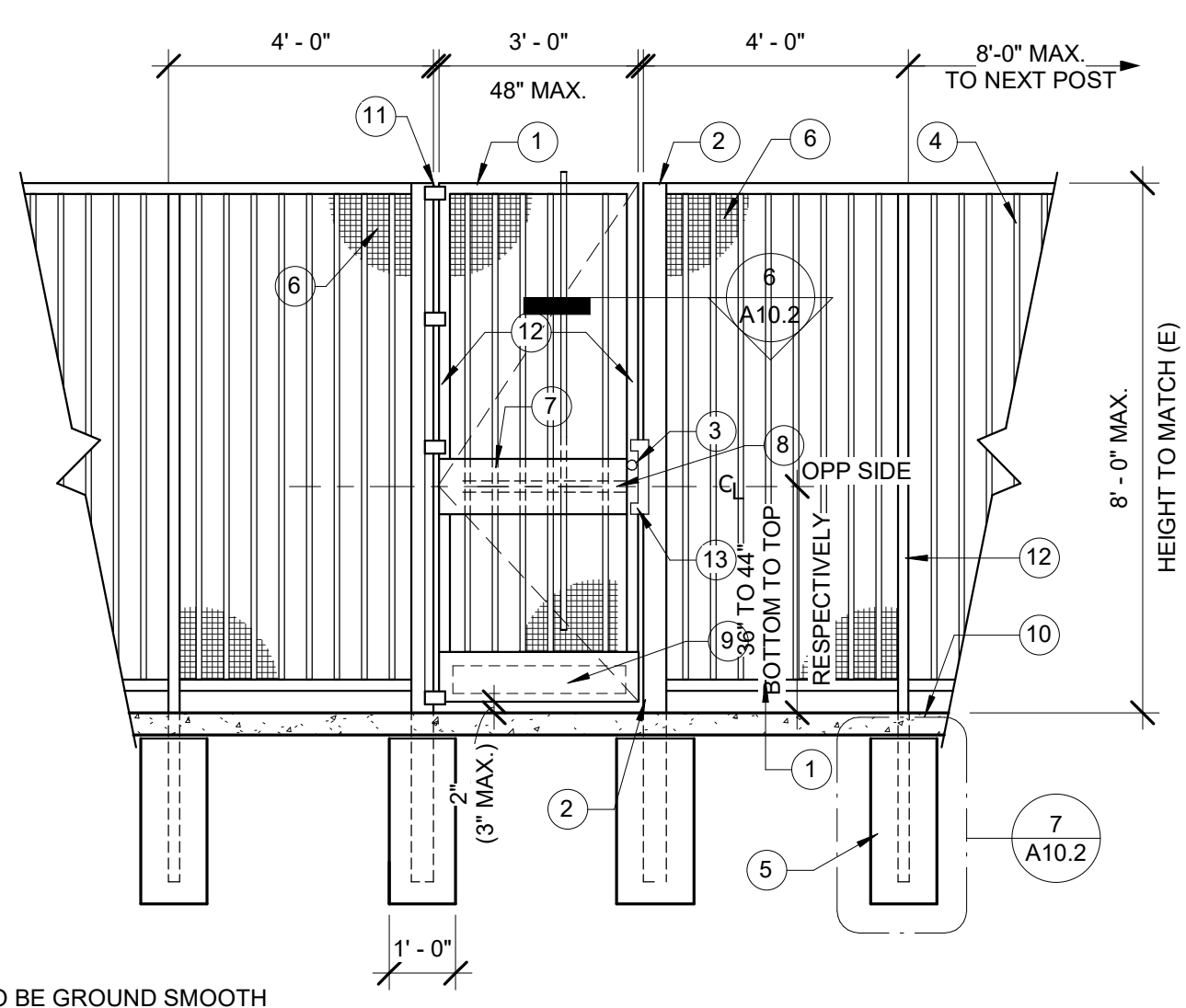


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SITE DETAILS

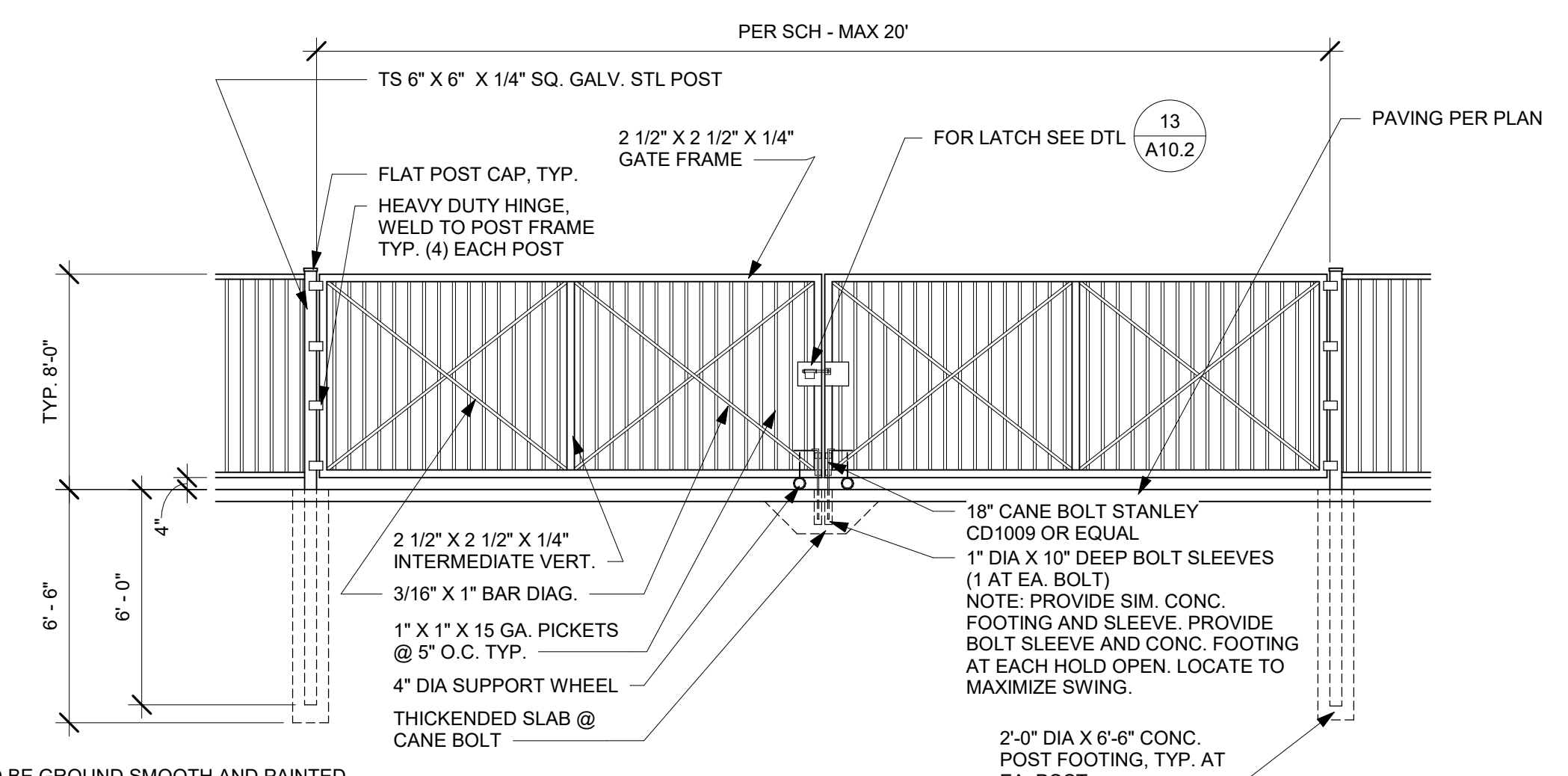
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- 1 2" x 2" x 1/8" STEEL TUBE
- 2 4" x 4" x 1/4" STEEL TUBE
- 3 HARDWARE @ GATE (A10.2)
- 4 1" x 1" x 0.60" STEEL TUBE PICKETS @ 5" O.C. WITH 3.75" MAX. CLEAR BETWEEN PICKETS
- 5 CONC. FTG. SEE DETAIL
- 6 1" x 1" x 14 GA. GALV. WELDED WIRE SCREEN WITH EDGE BAND WELDED TO FRAME AND PICKETS. PROVIDE A MIN. OF 3'-0" ON EACH SIDE OF GATE AND TERMINATE INTO FENCE POST. METHOD OF GALV. APPLICATION ON PERF. SHEET METAL SHALL ASSURE THAT ALL PERF. HOLES REMAIN OPEN & FREE OF EXCESS GALV.
- 7 1/8" STEEL PLATE, WELDED TO GATE FRAME. SEE DETAIL
- 8 PANIC BAR HARDWARE (A10.2)
- 9 10" HIGH KICKPLATE- 1/8" GV ST PL. EA. SIDE. SCREWED TO GATE FRAME. SEE DETAIL (A10.2)
- 10 CONC. PAVING (CONC. MOW STRIP @ 8" MAX.)
- 11 CONT. HEAVY DUTY SPRING LOADED HINGE WELDED TO POST FRAME
- 12 2" x 2" x 1/4" STEEL TUBE

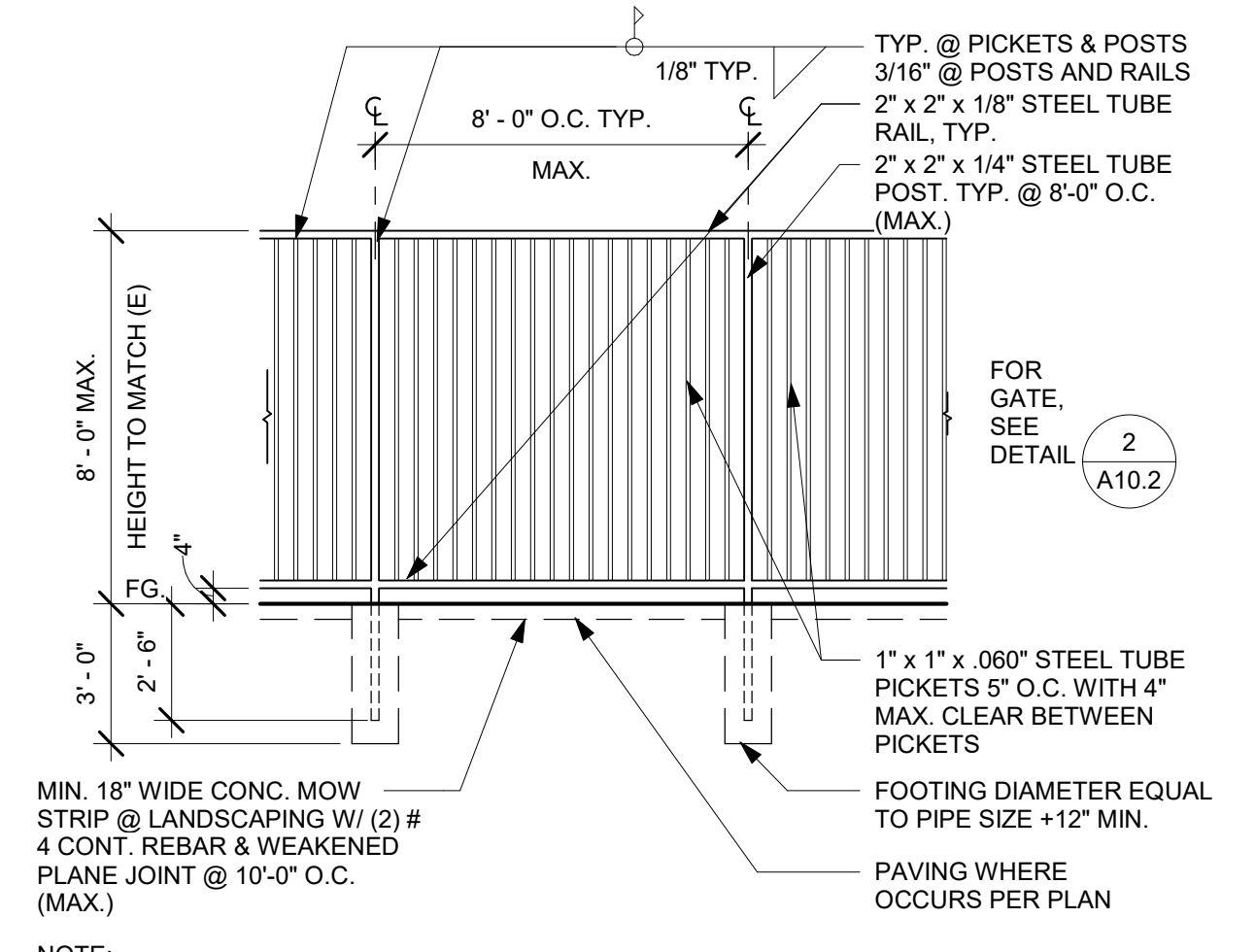
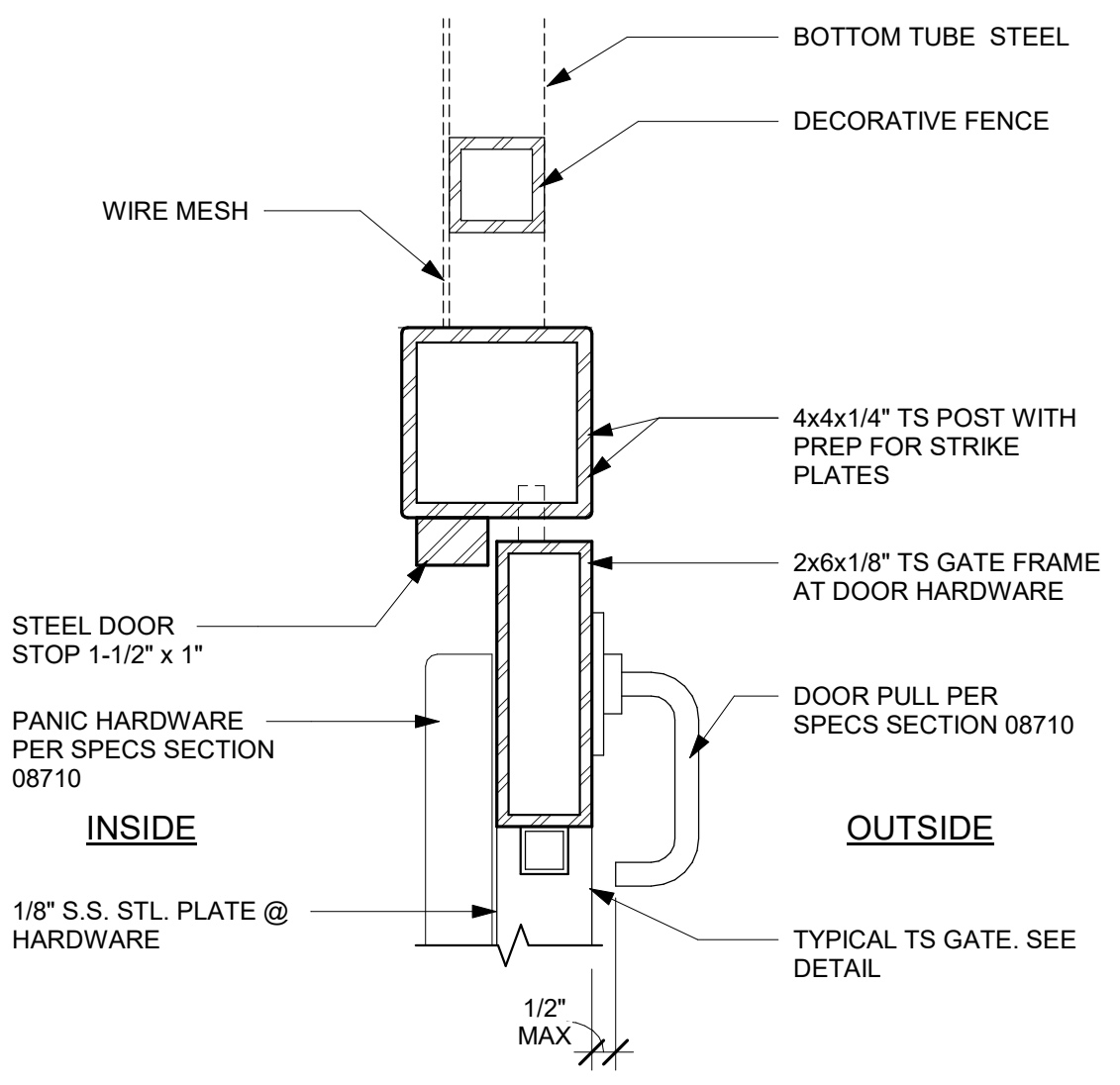
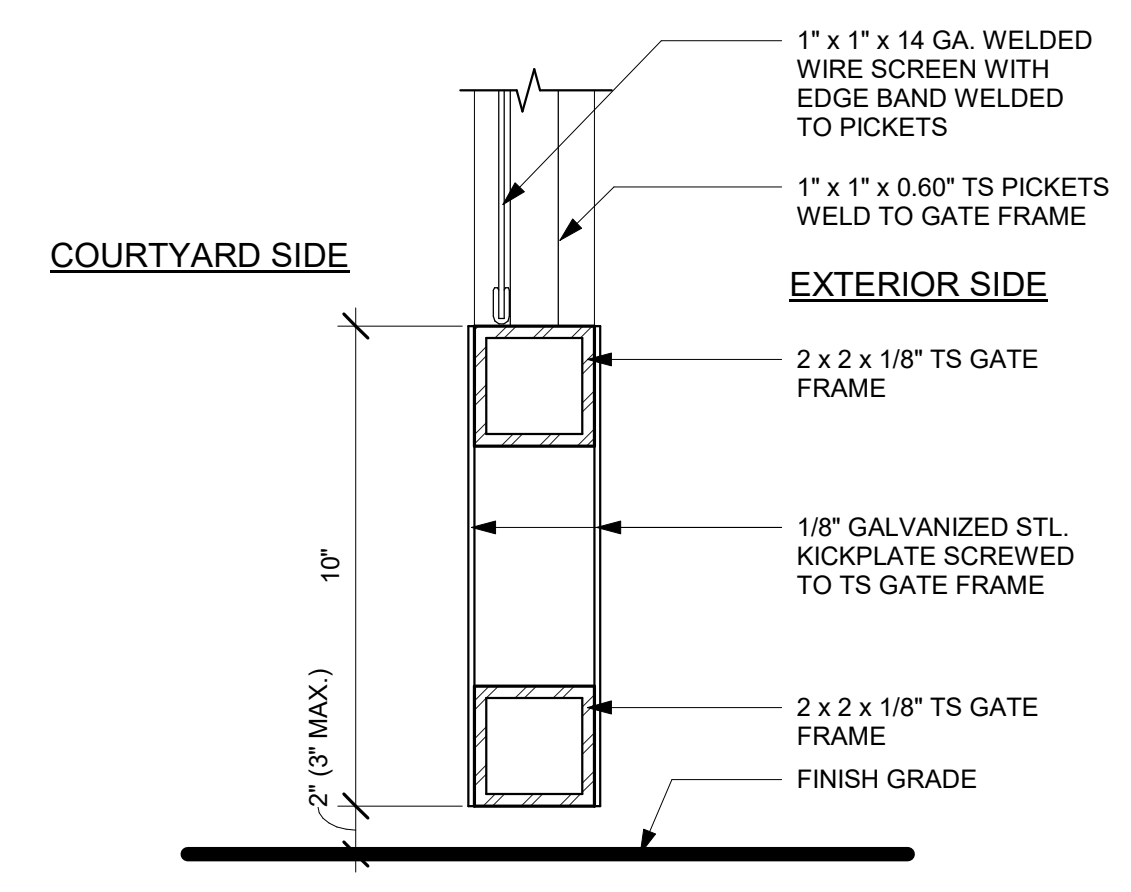
NOTE:
 - ALL WELDS TO BE GROUND SMOOTH
 - ALL STEEL PARTS TO BE HOT DIP GALVANIZED AFTER EACH FABRICATION
 - ALL PARTS TO BE WELDED TOGETHER WITH 3/16" FILLET WELDS ALL AROUND, UNLESS OTHERWISE NOTED, TYPICAL
 - AREAS WHERE GALVANIZING IS REMOVED DURING CONSTRUCTION SHALL BE TREATED W/ GALVANIC PAINT BLENDED INTO APPEARANCE



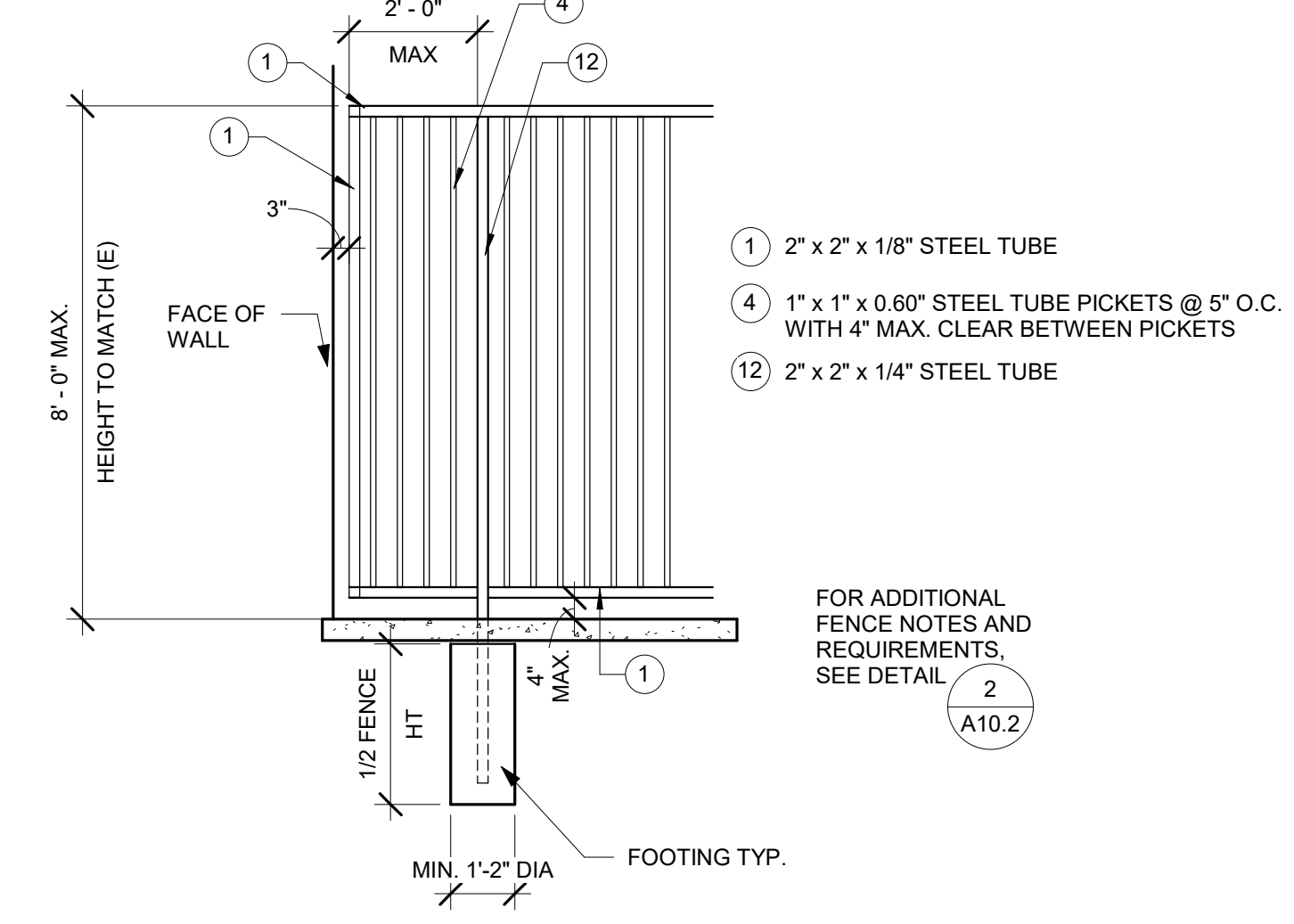
NOTES:
 - ALL WELDS TO BE GROUND SMOOTH AND PAINTED
 - ALL METAL TO BE HOT DIP GALVANIZED AFTER FABRICATION
 - ALL AREAS WHERE GALVANIZING WAS REMOVED DURING CONSTRUCTION TO BE TREATED WITH GALVANIC PAINT
 - ALL PARTS TO BE WELDED TOGETHER WITH 3/16" FILLET WELDS ALL AROUND, UNLESS OTHERWISE NOTED, TYP.

DECORATIVE SINGLE GATE W/PANIC HARDWARE 3/8" = 1'-0" 2

DECORATIVE FENCE VEHICLE GATE 1/4" = 1'-0" 4



NOTE:
 - SINGLE LEAF GATE SIMILAR
 - ALL WELDS TO BE GROUND SMOOTH
 - ALL STEEL TO BE HOT DIP GALVANIZED AFTER FABRICATION
 - ALL PARTS TO BE WELDED TOGETHER WITH 3/16" FILLET WELDS ALL AROUND, UNLESS OTHERWISE NOTED, TYP.
 - AREAS WHERE GALVANIZING IS REMOVED DURING CONSTRUCTION SHALL BE TREATED WITH GALVANIC PAINT BLENDED INTO APPEARANCE



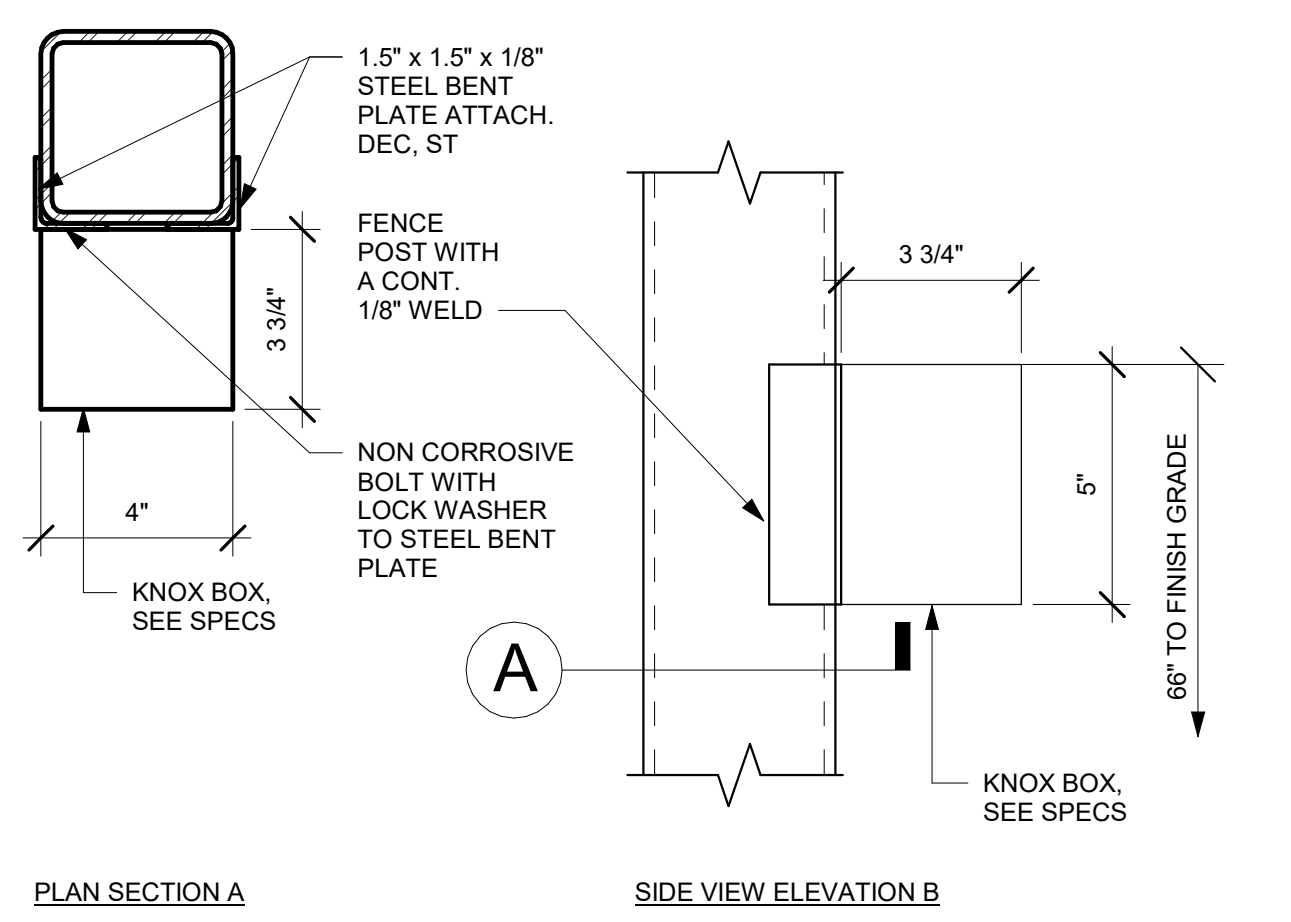
NOTE:
 - ALL WELDS TO BE GROUND SMOOTH
 - ALL STEEL PARTS TO BE HOT DIP GALVANIZED AFTER EACH FABRICATION
 - ALL PARTS TO BE WELDED TOGETHER WITH 3/16" FILLET WELDS ALL AROUND, UNLESS OTHERWISE NOTED, TYPICAL
 - AREAS WHERE GALVANIZING IS REMOVED DURING CONSTRUCTION SHALL BE TREATED W/ GALVANIC PAINT BLENDED INTO APPEARANCE

KICKPLATE DETAIL 3" = 1'-0" 5

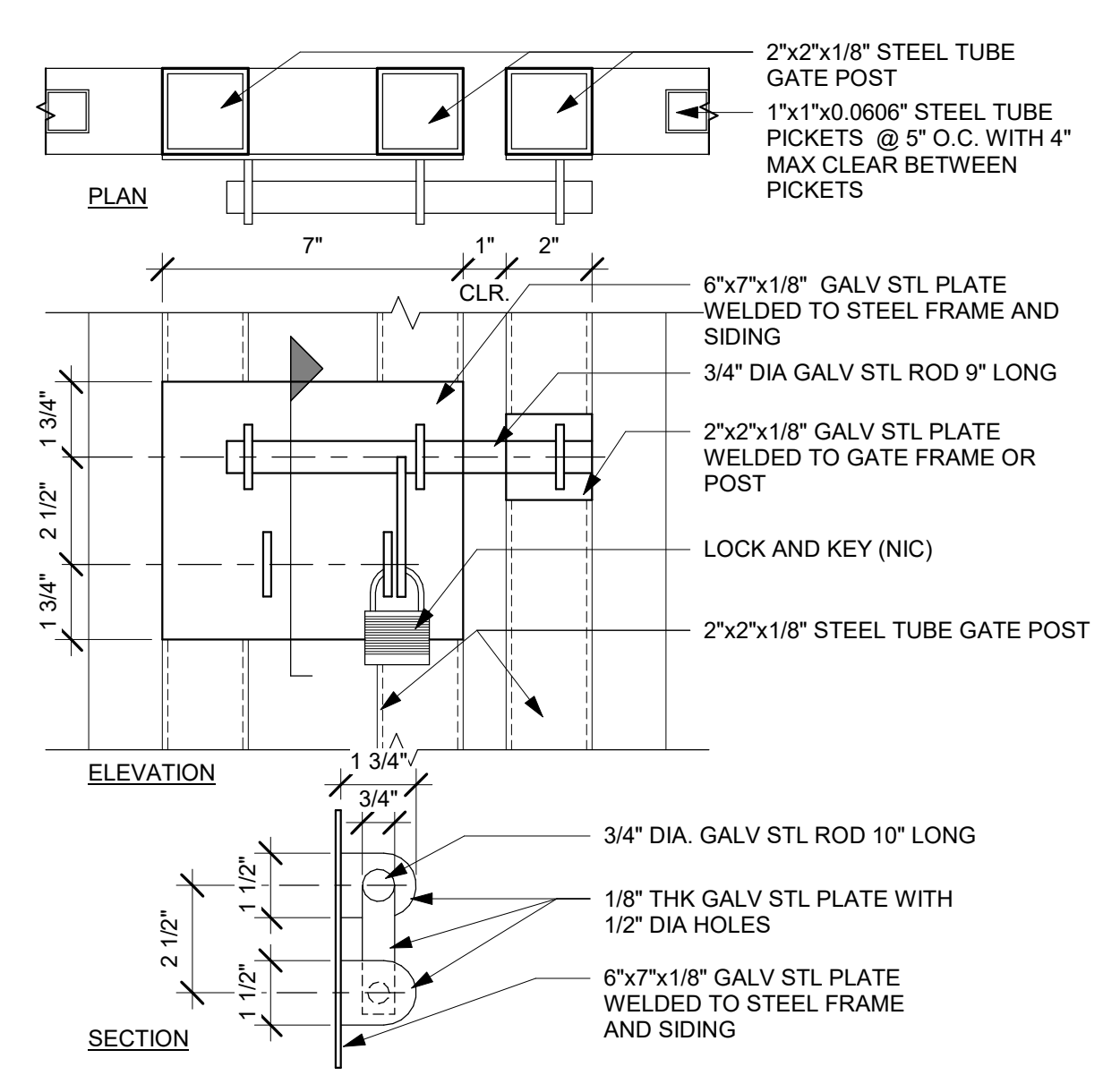
GATE POST 3" = 1'-0" 6

ELEVATION - DECORATIVE 1/4" = 1'-0" 7

FENCE AT BUILDING COLUMN 3/8" = 1'-0" 8



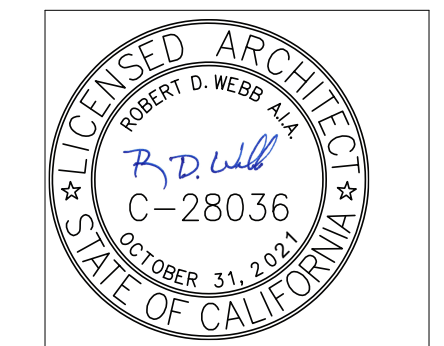
KNOX BOX 3" = 1'-0" 9



GATE LATCH 3" = 1'-0" 13

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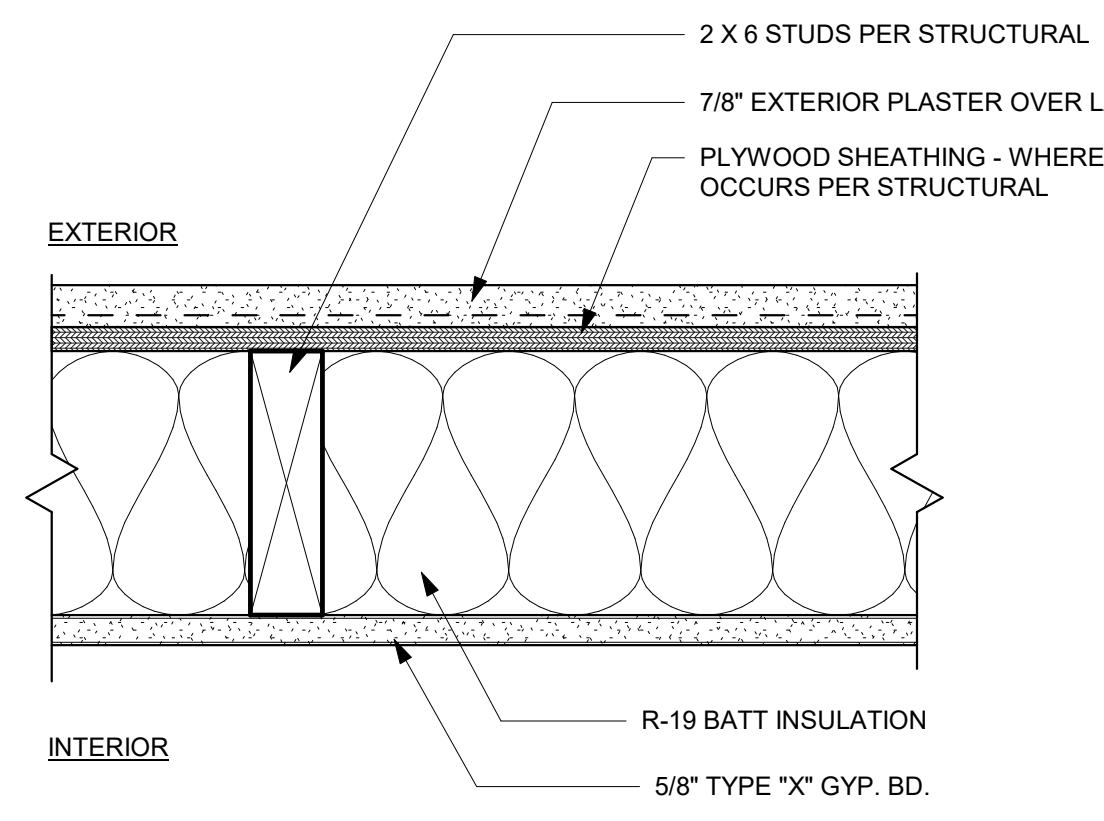


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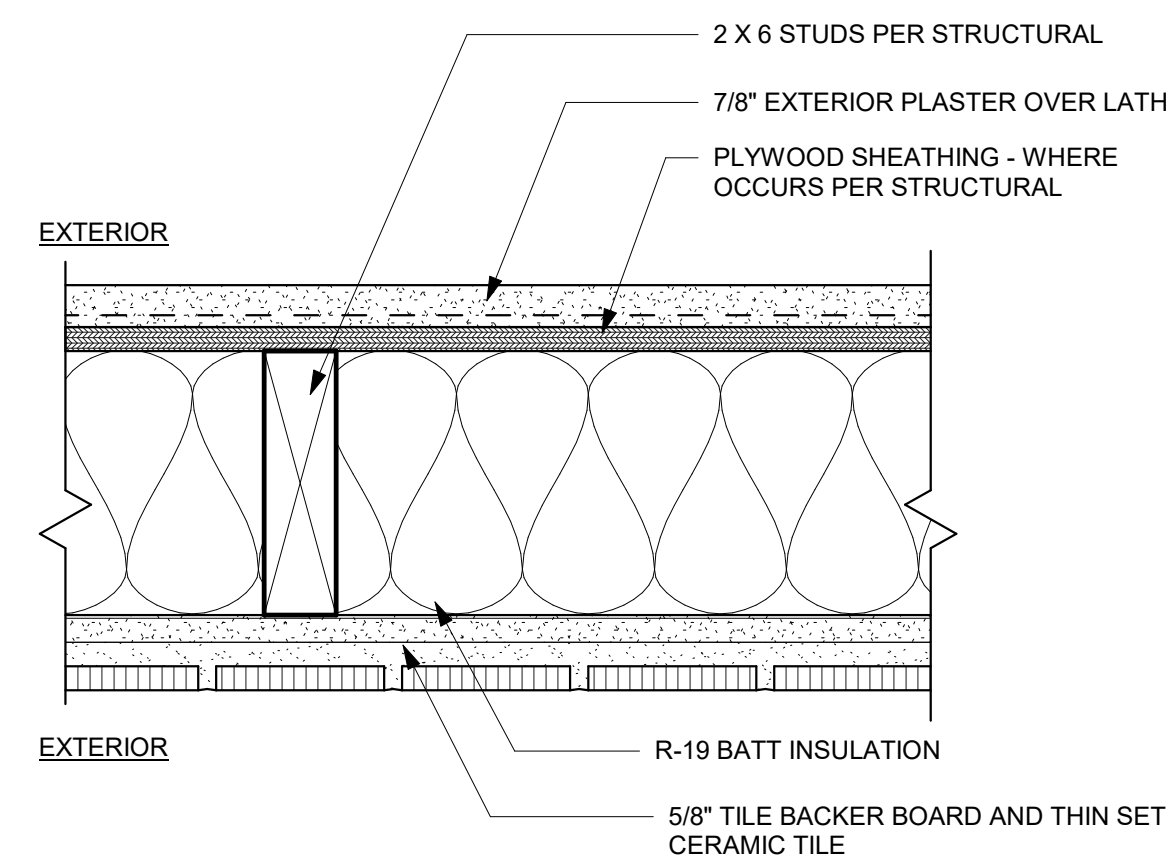
SITE DETAILS - FENCING

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 Date: OCT. 14, 2019
 Job: SSD-PA-03

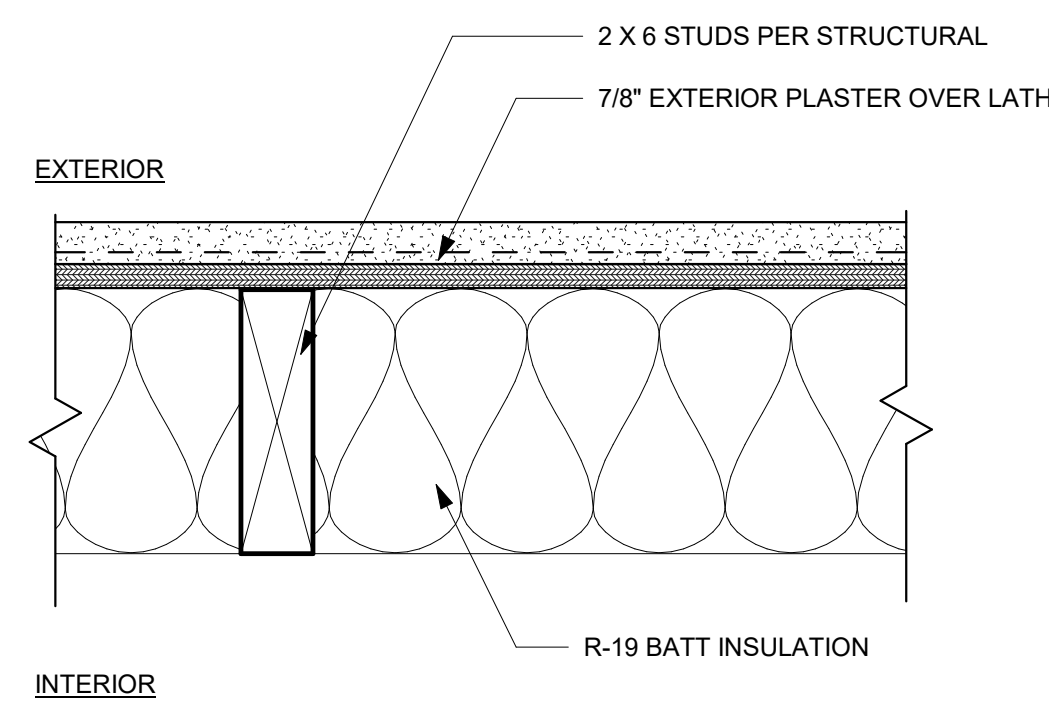
A10.2



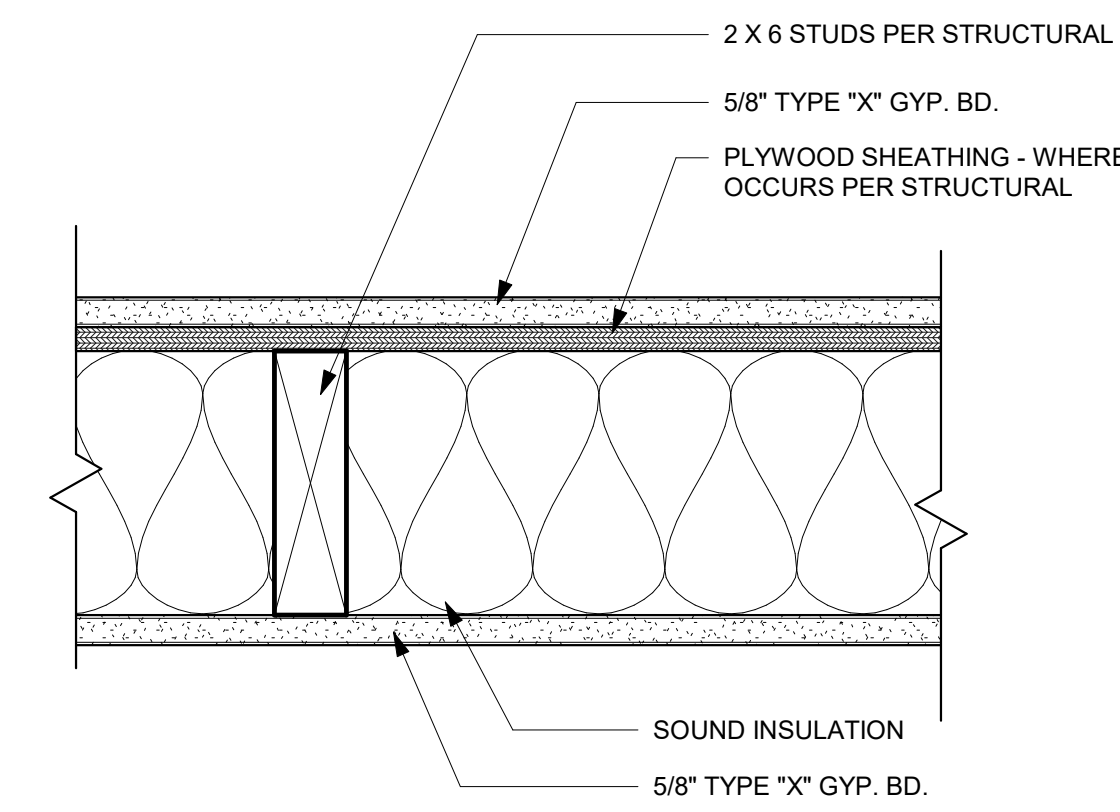
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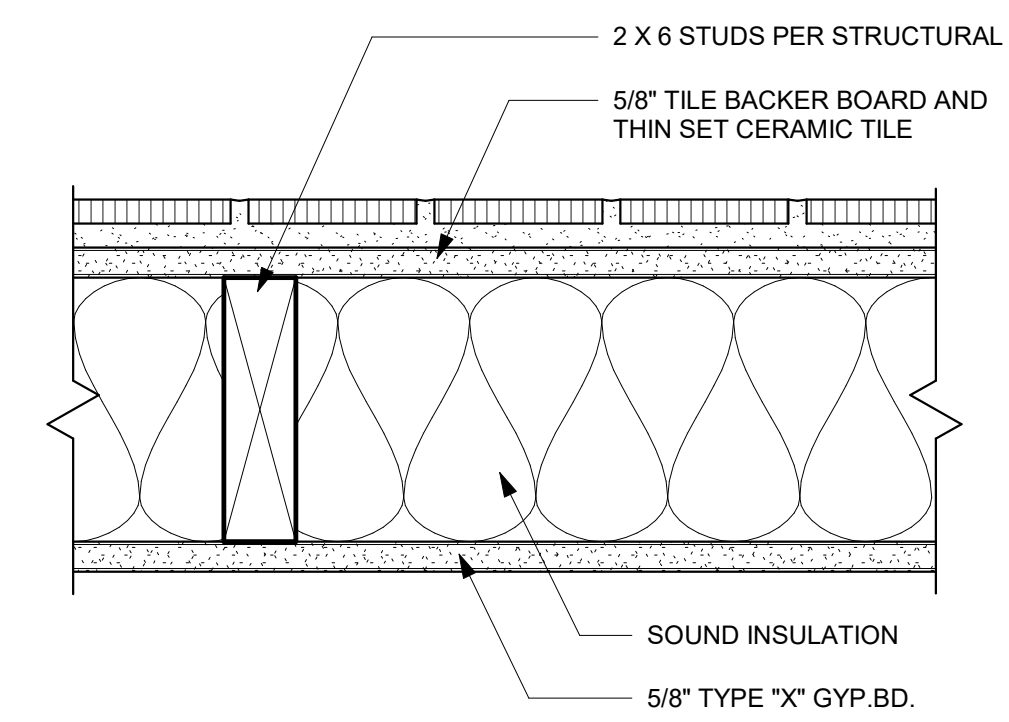
WALL TYPE WT-2



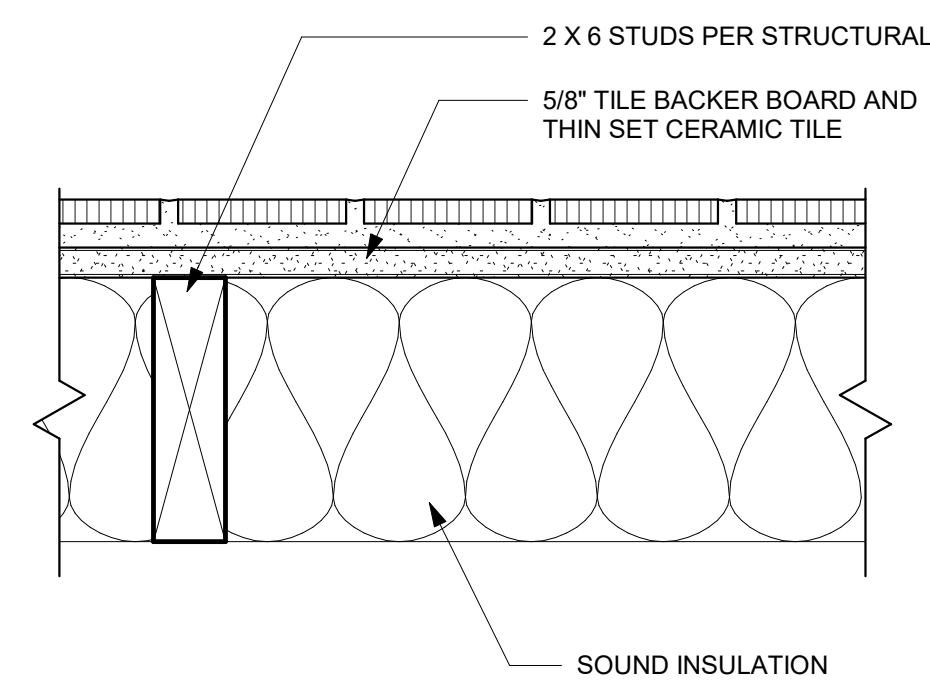
WALL TYPE WT-3



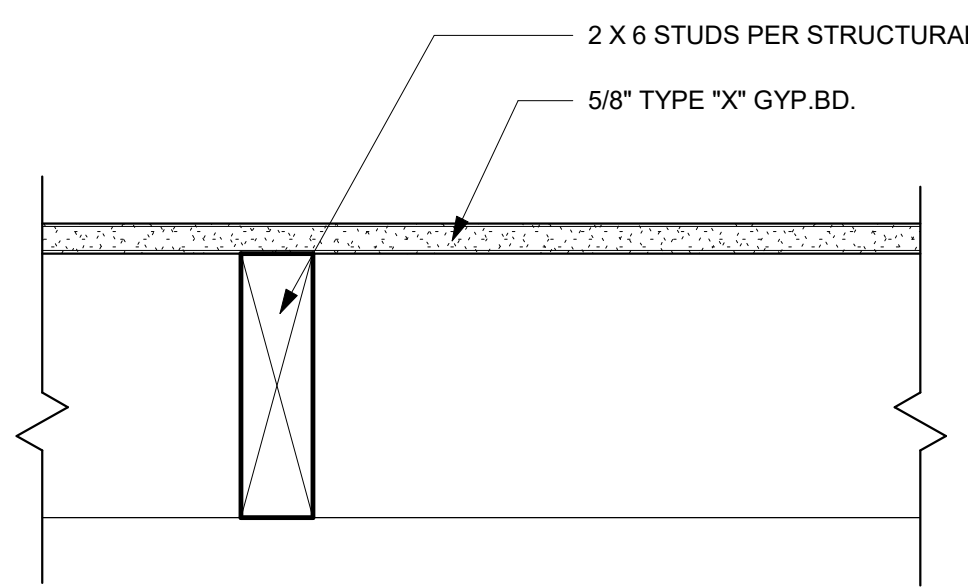
WALL TYPE WT-4



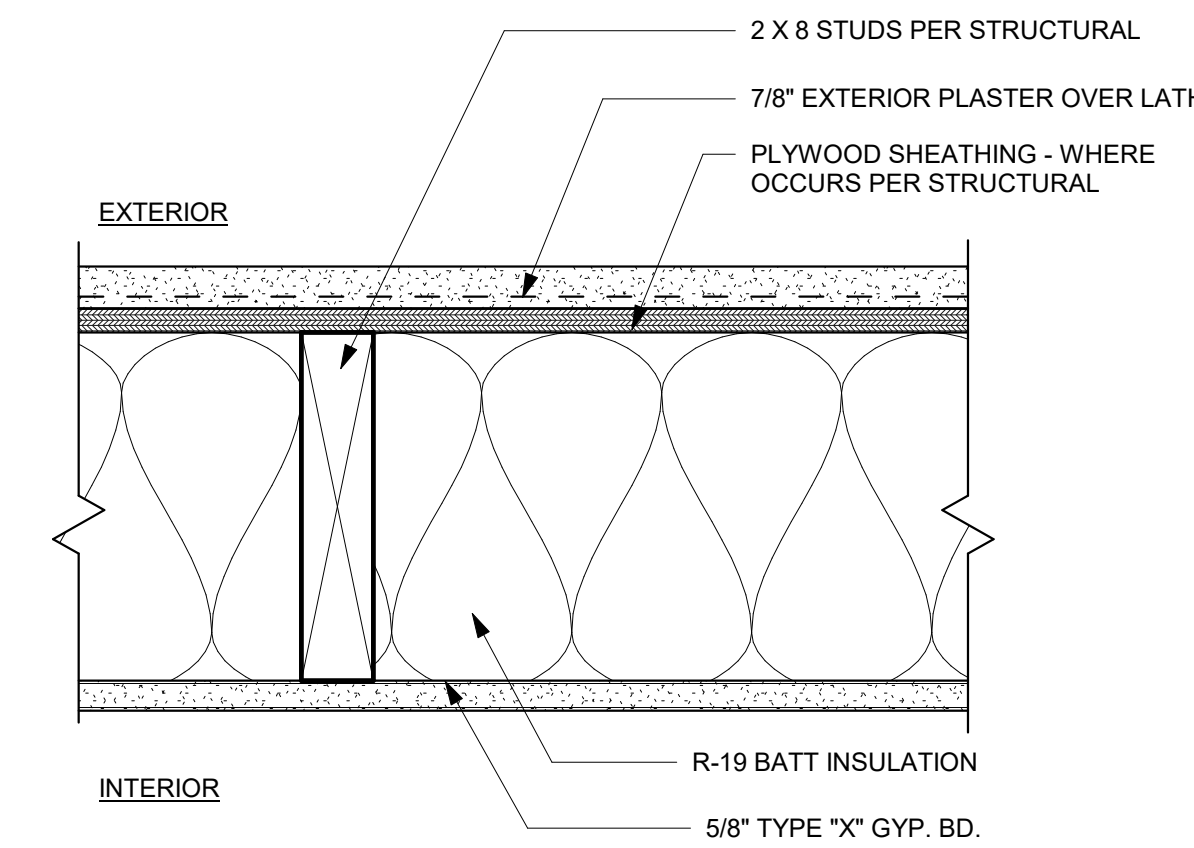
WALL TYPE WT-5



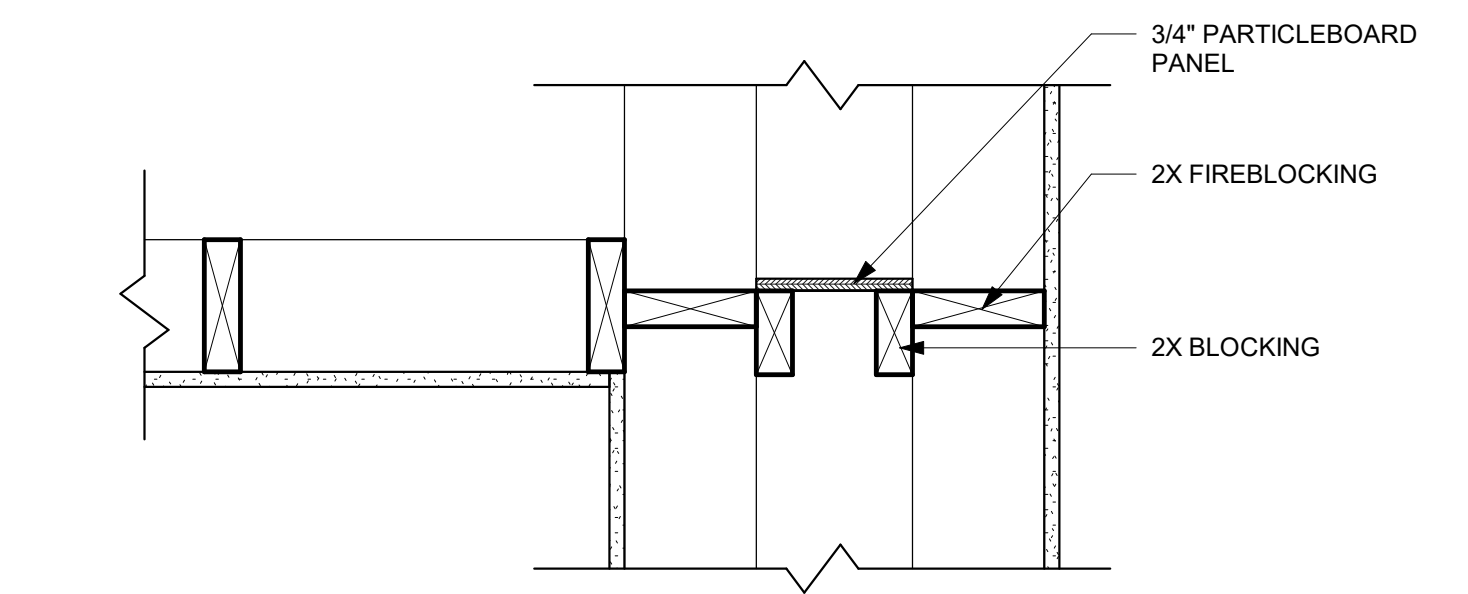
WALL TYPE WT-6



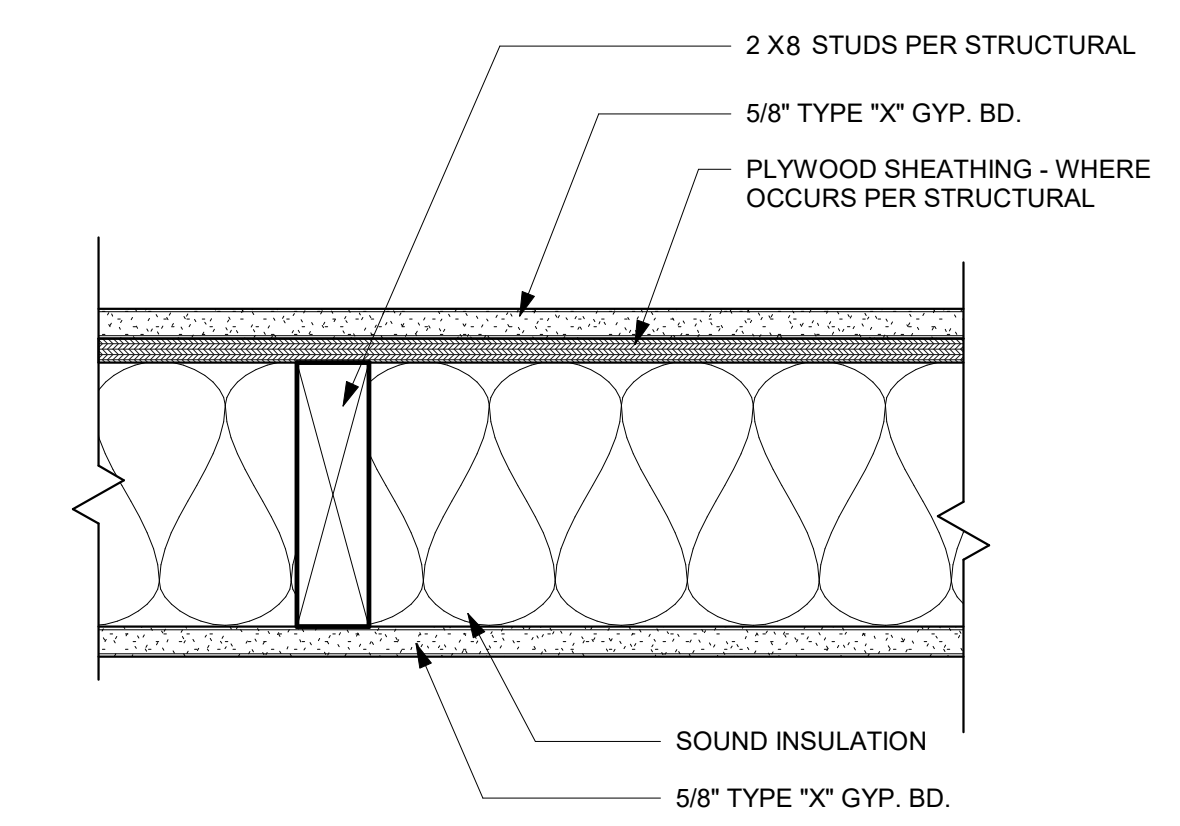
WALL TYPE WT-7



WALL TYPE WT-8

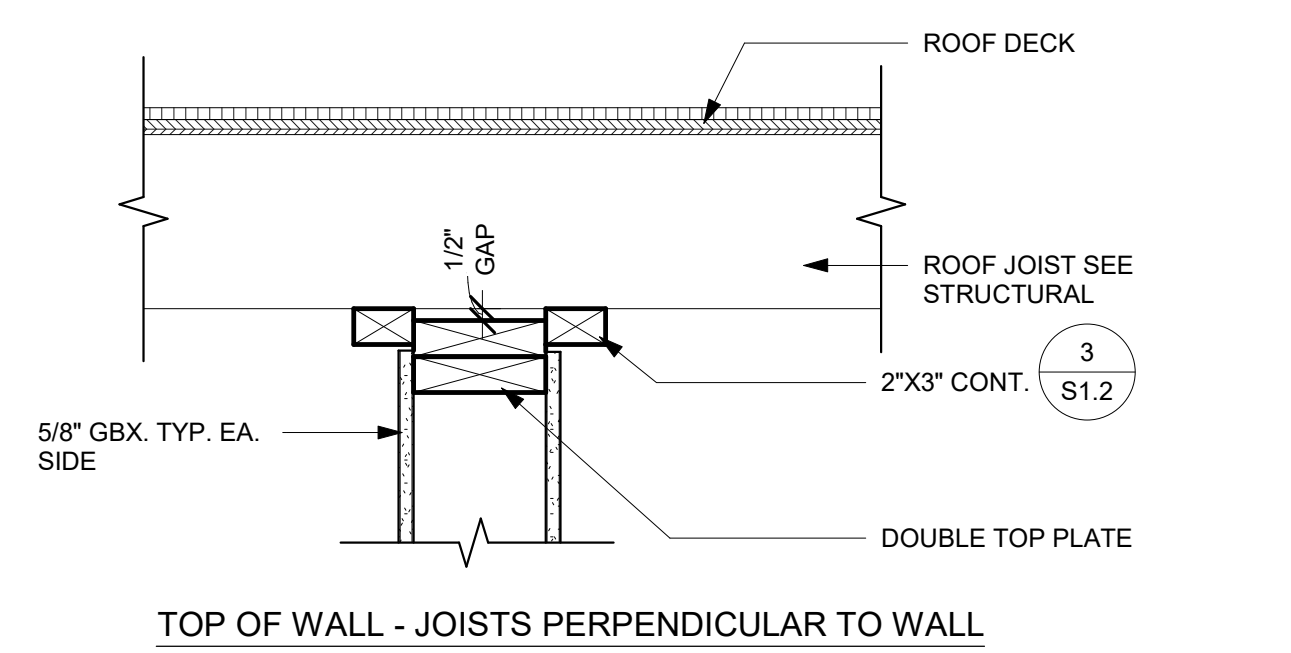


FIREBLOCKING DTL 1 1/2" = 1'-0" 3

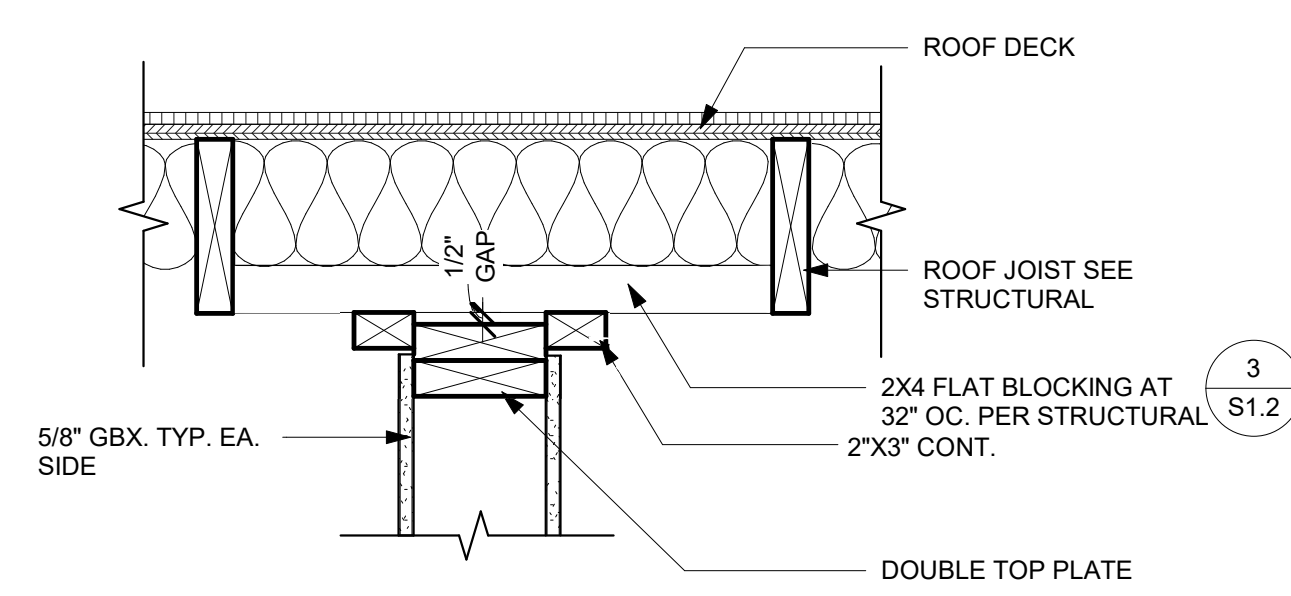


WALL TYPE WT-9

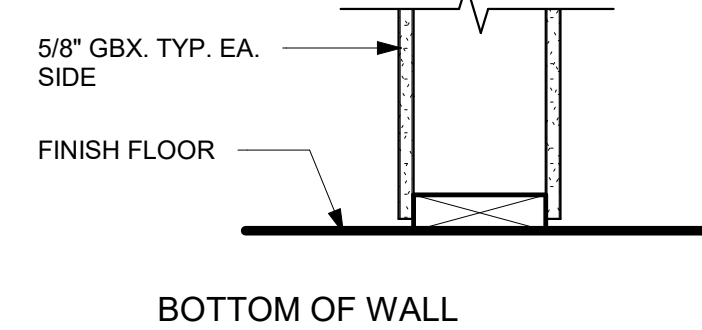
WALL TYPES 3" = 1'-0" 1



TOP OF WALL - JOISTS PERPENDICULAR TO WALL

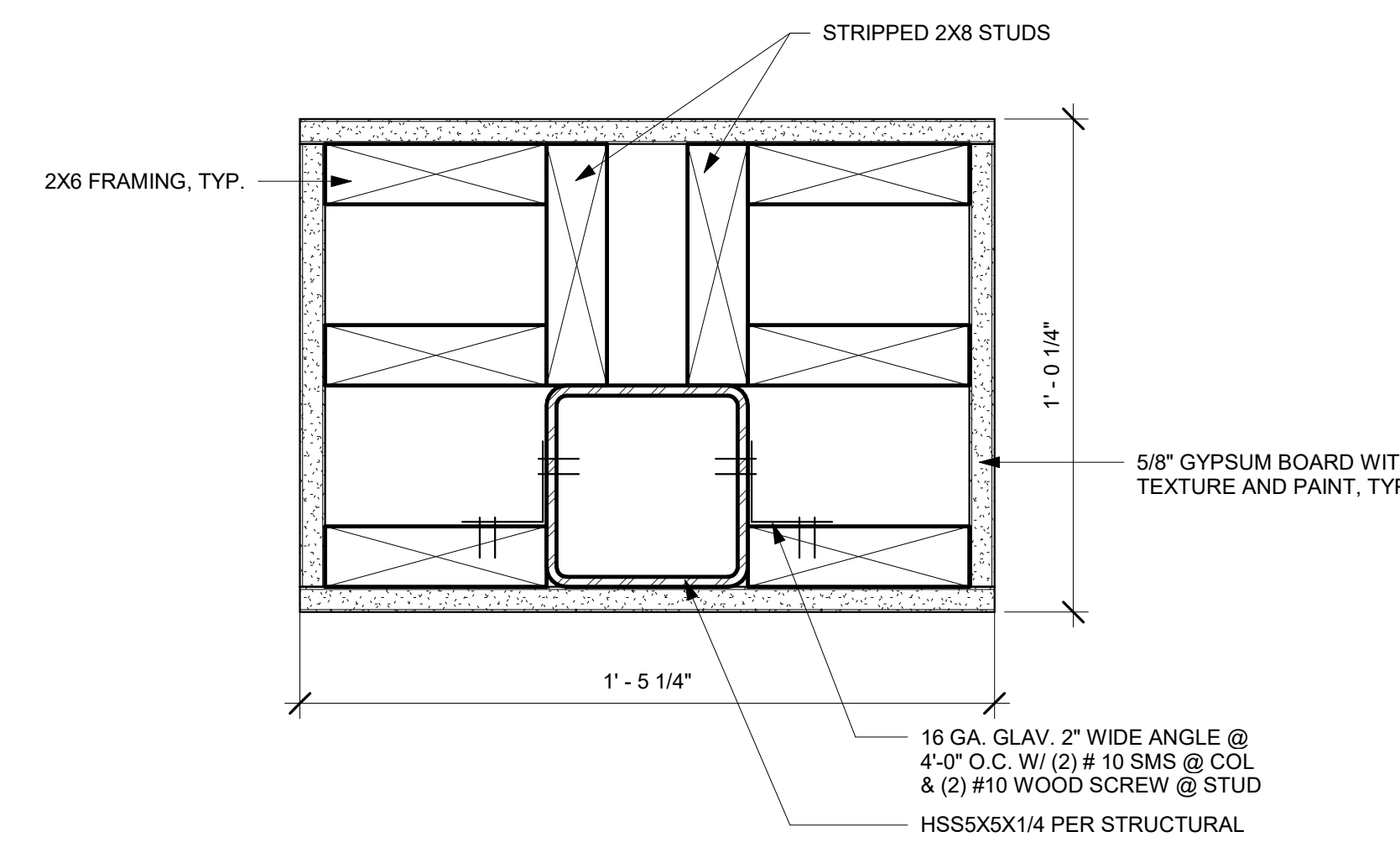


TOP OF WALL - JOISTS PARALLEL TO WALL



BOTTOM OF WALL

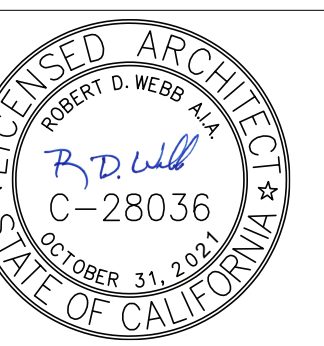
NON-RATED NON-BEARING WALL 1 1/2" = 1'-0" 2



STEEL COLUMN WRAP 3" = 1'-0" 11

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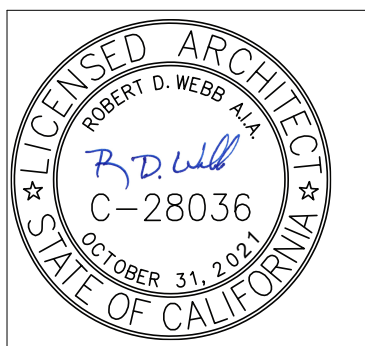


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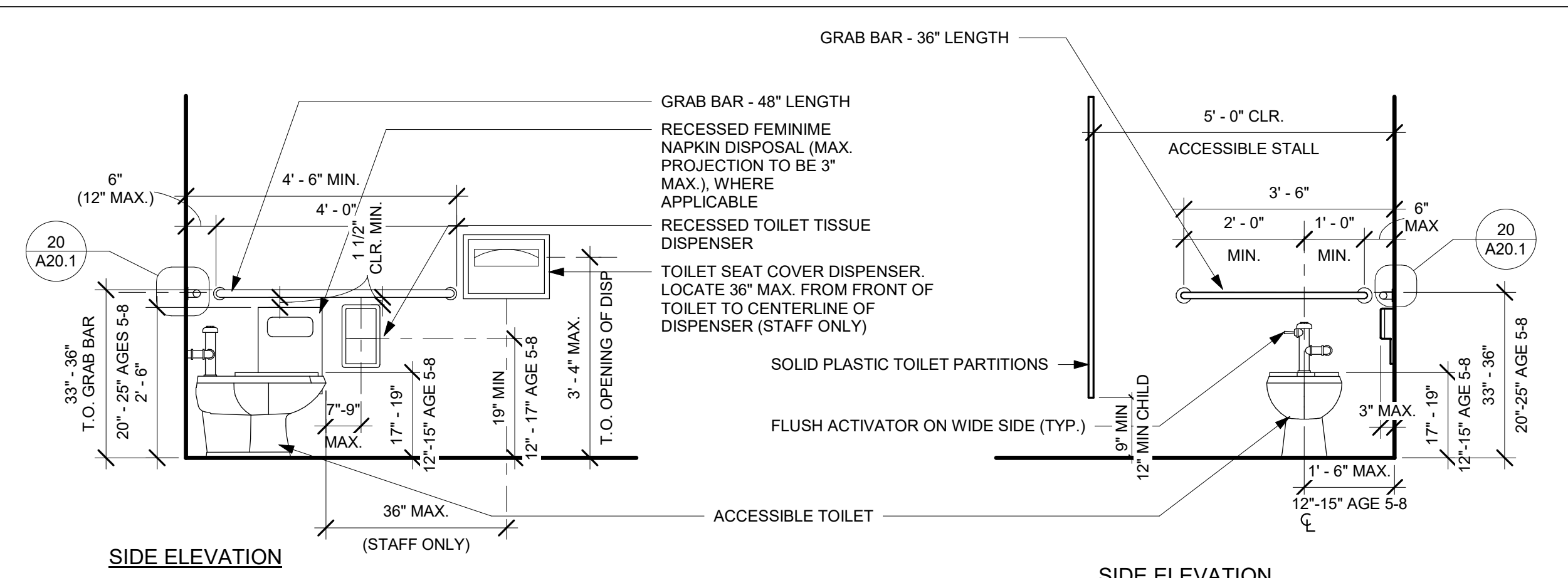
**WALL TYPES AND
 DETAILS**

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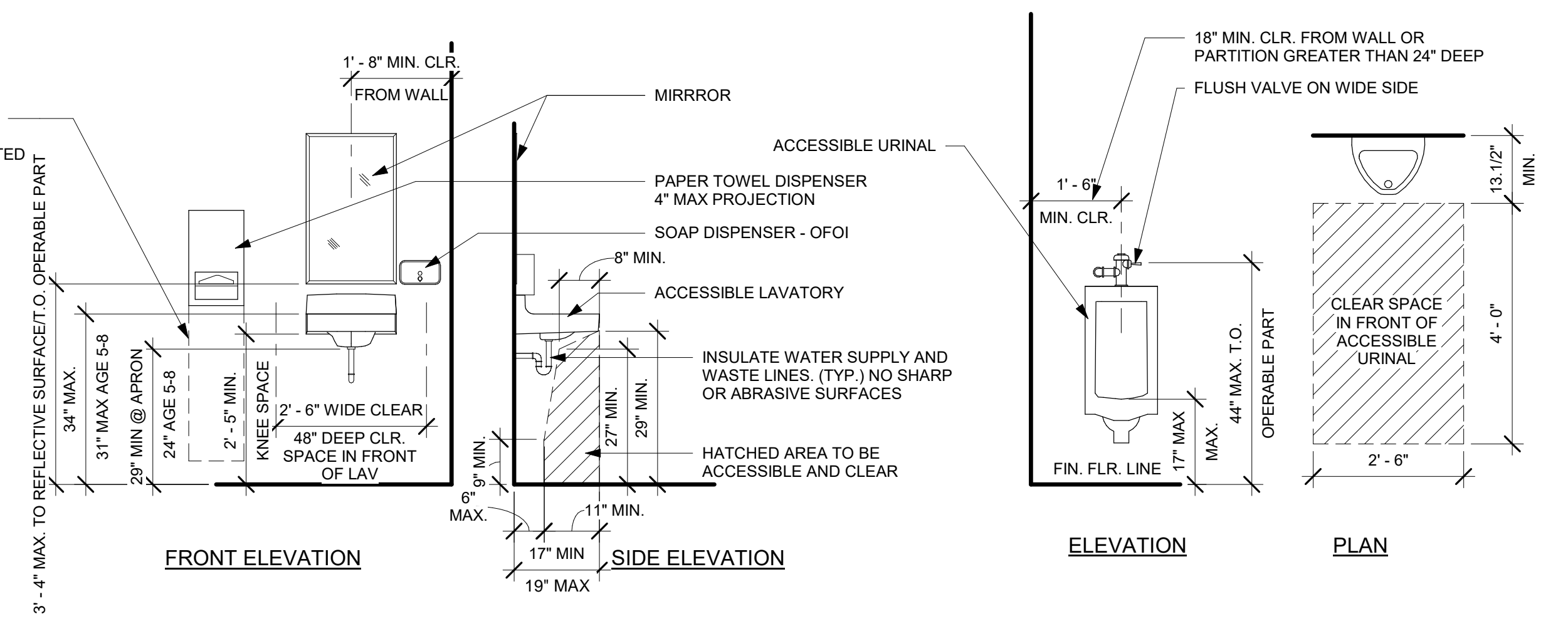
Revision	Date



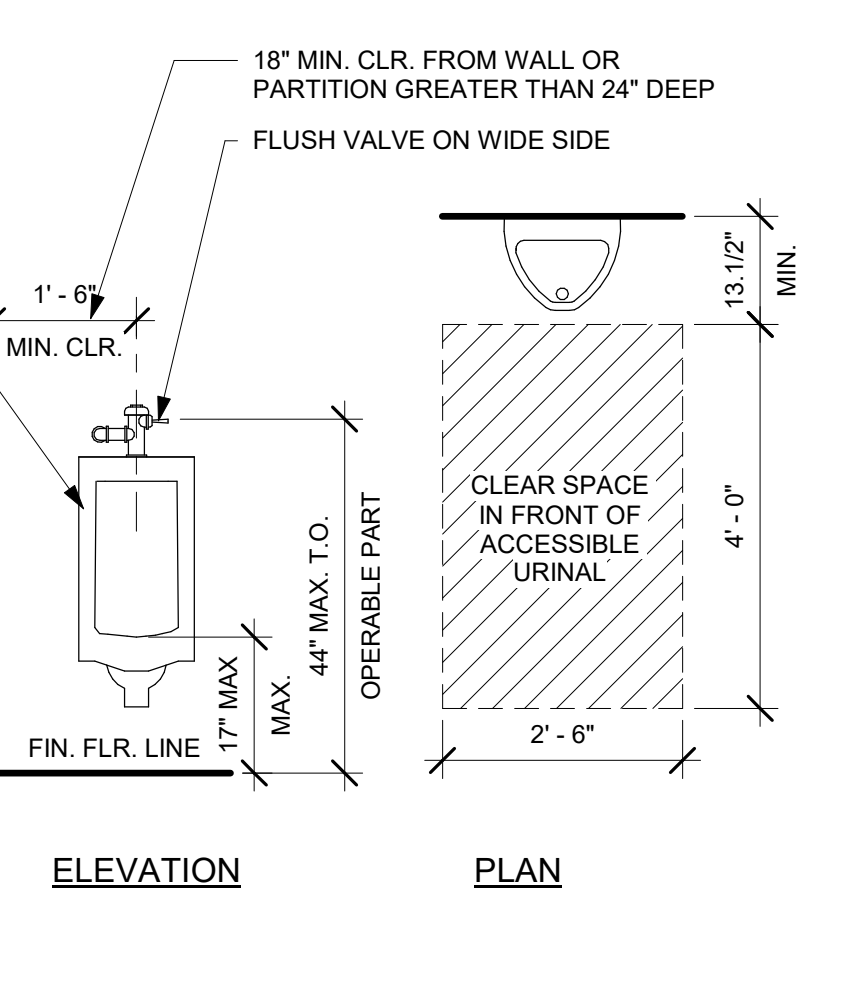
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 Job: SSD-PA-03



ACCESSIBLE TOILET (ADULT HEIGHT)

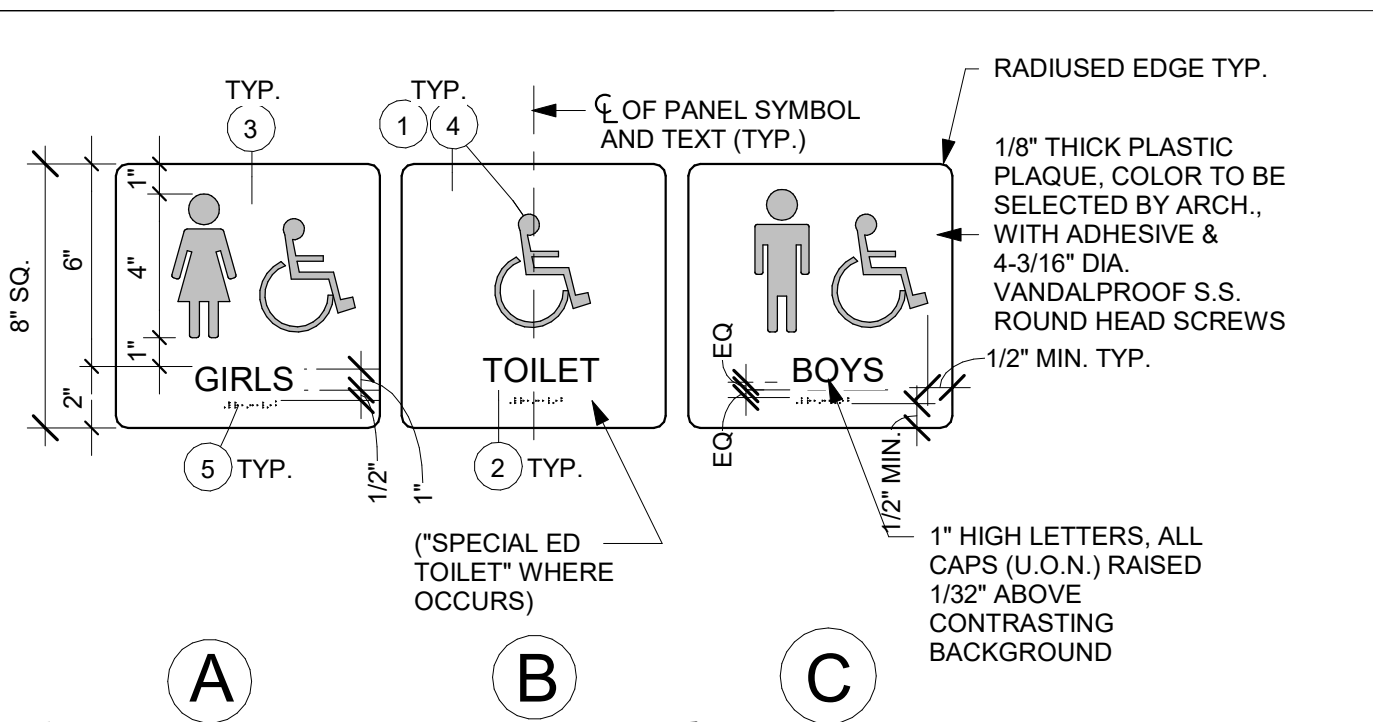


ACCESSIBLE LAVATORY



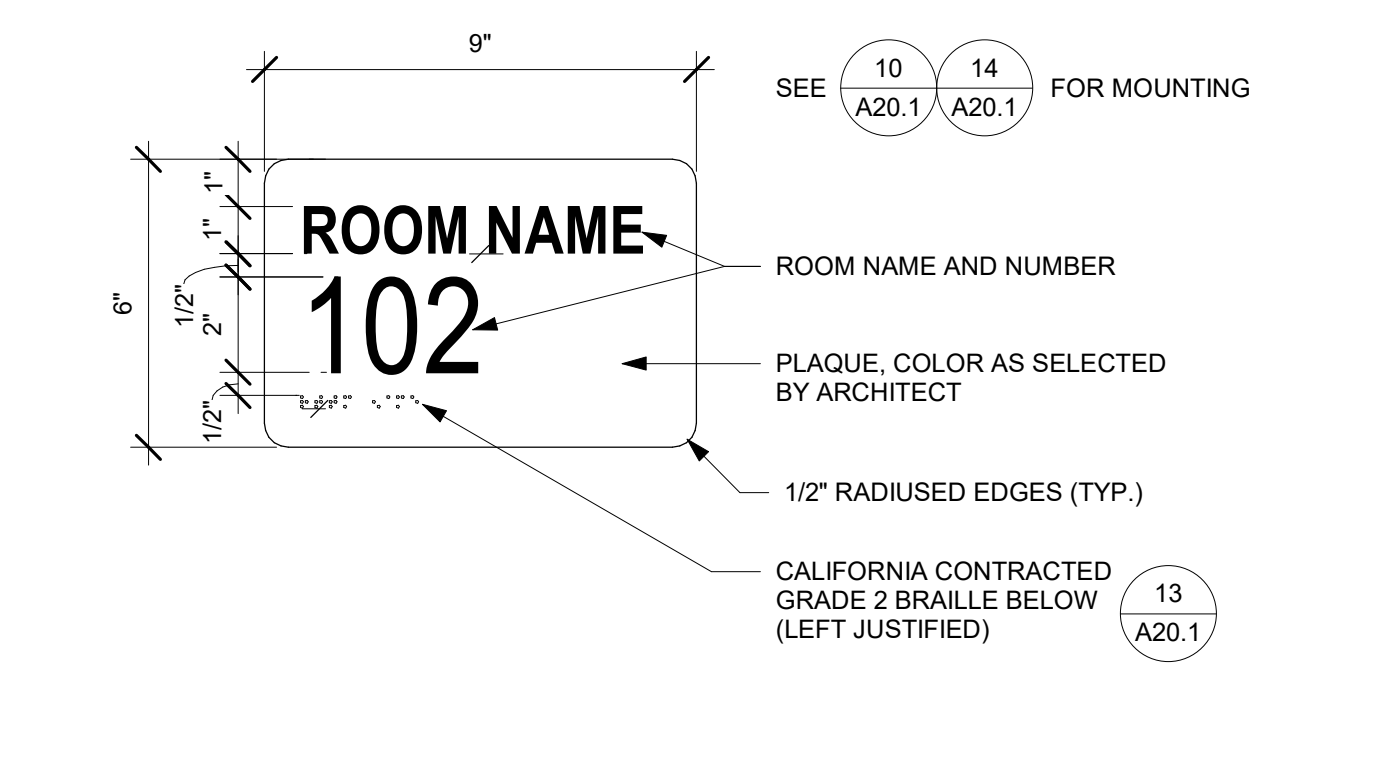
ACCESSIBLE URINAL

NOTE: SEE FLOOR PLAN FOR ACTUAL LOCATIONS OF FIXTURES AND ACCESSORIES WITHIN THE ROOM.

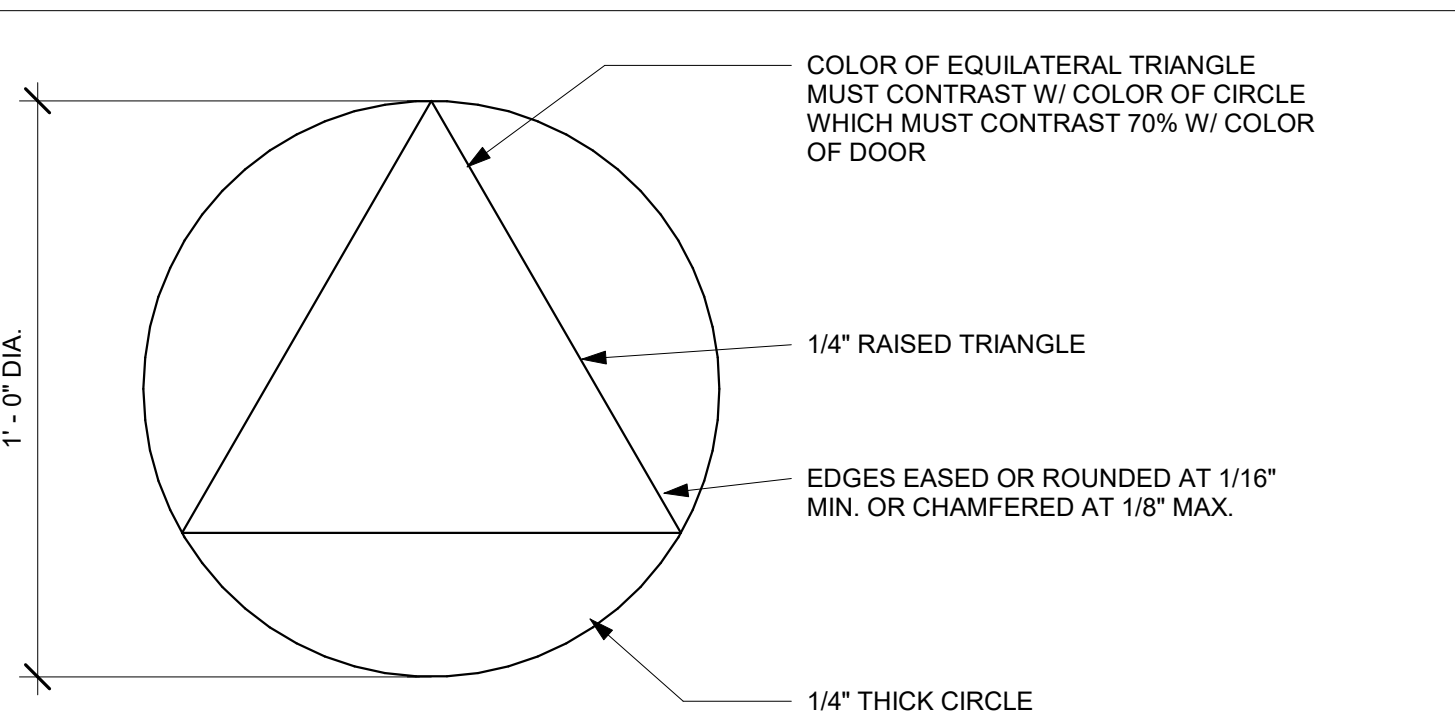


- CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794 mm) MIN. AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CALIFORNIA CONTRACTED GRADE 2 BRAILLE COMPLYING WITH 11B-703.3, 11B-703.3.1.
- CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MIN. OF 5/8 INCH (15.8mm) AND A MAXIMUM OF 2 INCHES (51mm) HIGH.
- FINISH AND CONTRAST: CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
- PROPORTIONS: CHARACTERS ON SIGN SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.
- 11B-703.2.4, 11B-703.2.6 PROPORTIONS: CHARACTERS ON SIGN SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.
- 11B-703.3, 11B-703.3.1 BRAILLE: CALIFORNIA CONTRACTED GRADE 2 BRAILLE, SEE DETAIL.
- MOUNT SIGN PER 10, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

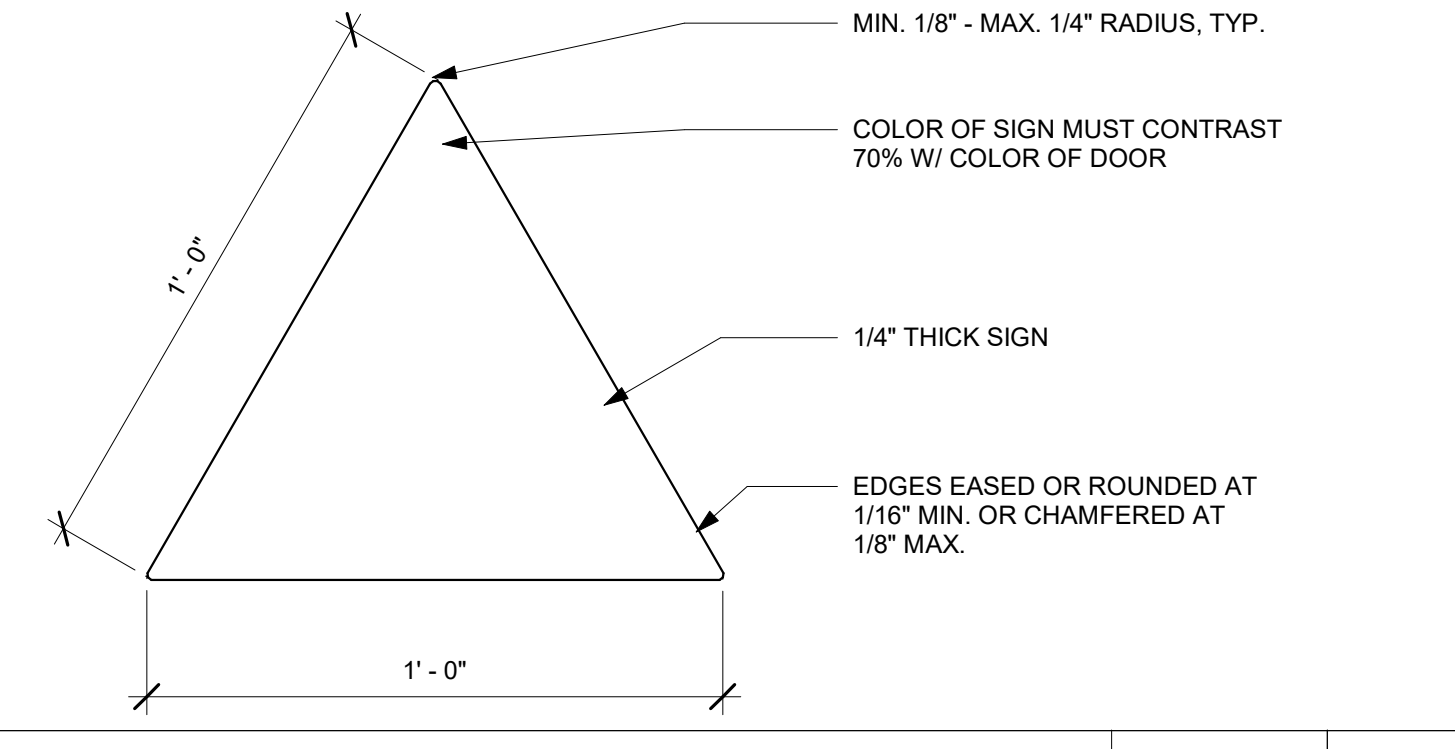
ADULT RESTROOM SIGN AT WALL 1 1/2" = 1'-0" 2



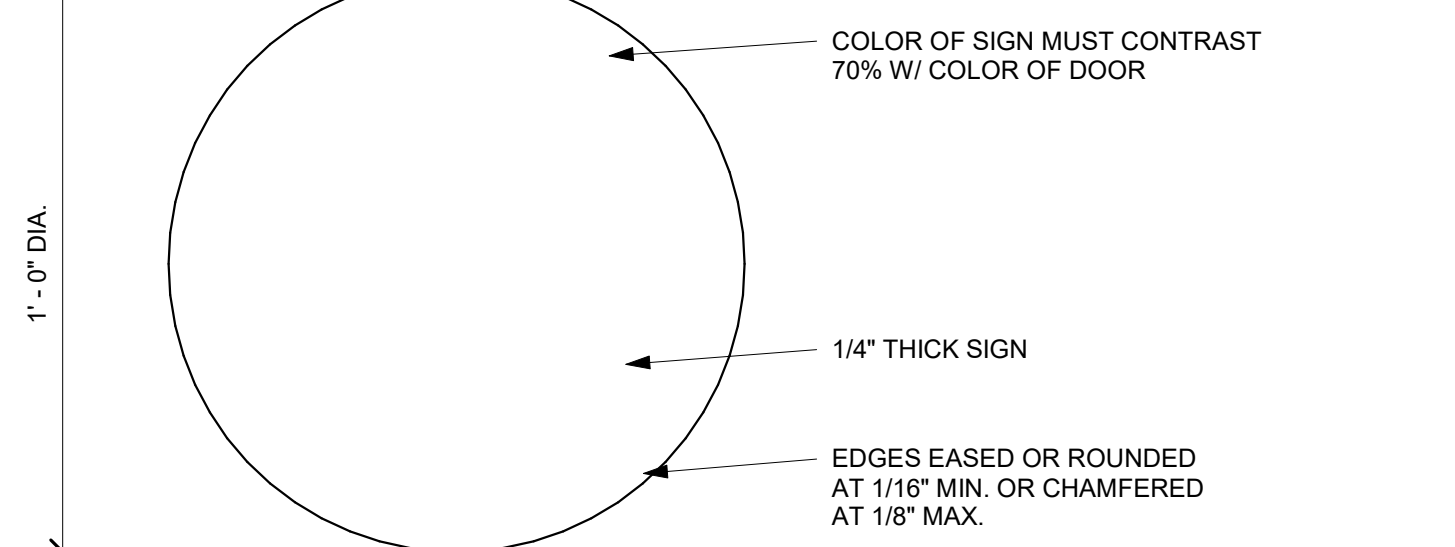
ROOM ID SIGN 3" = 1'-0" 6



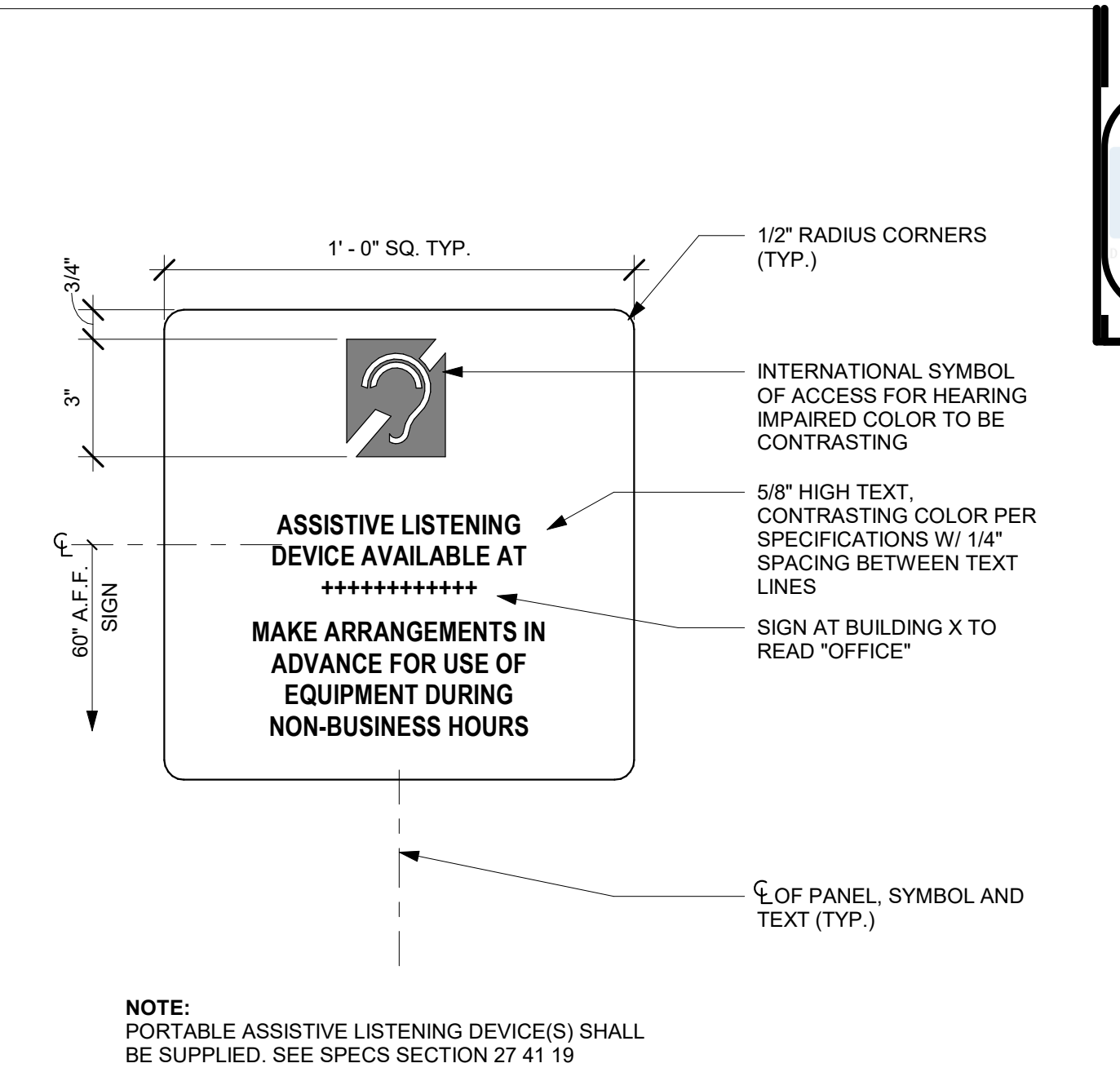
TOILET DOOR SIGNAGE - GENDER NEUTRAL 3" = 1'-0" 7A



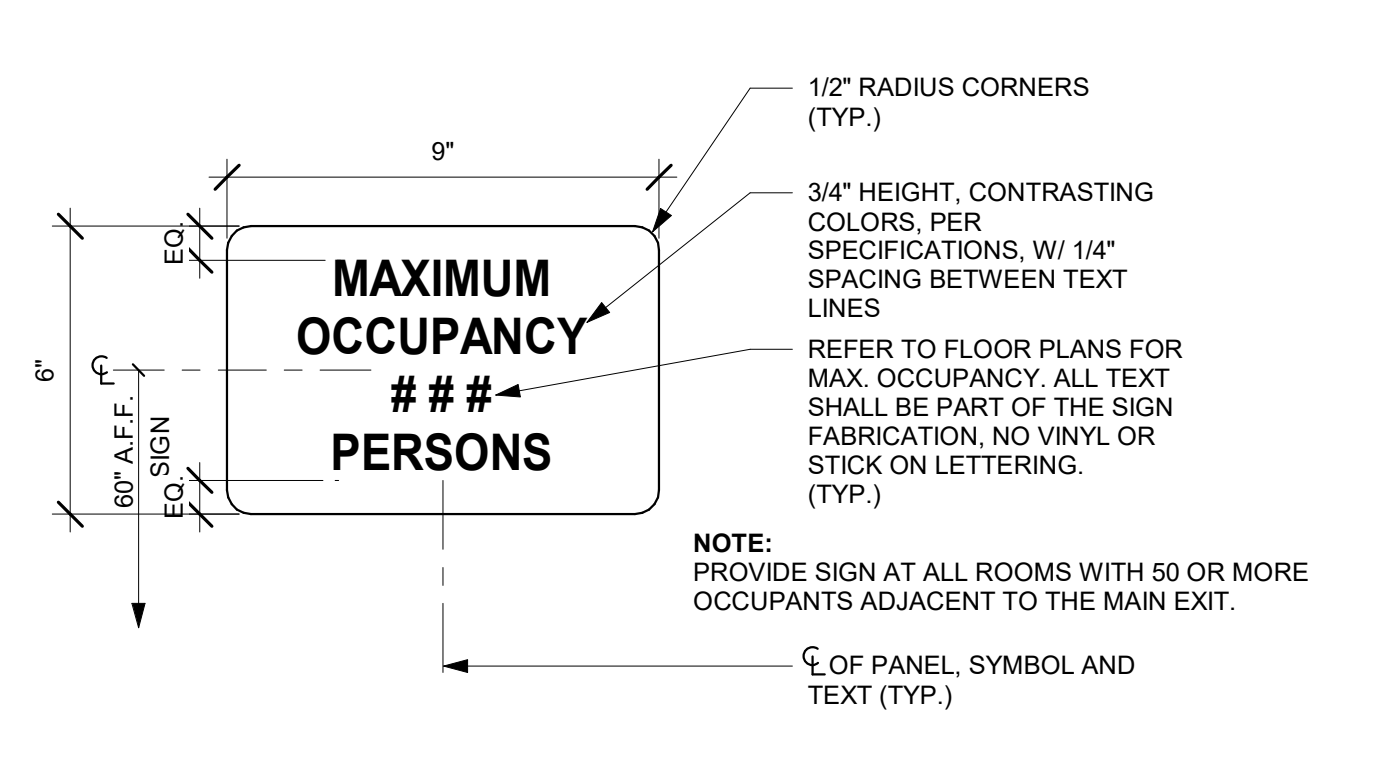
TOILET DOOR SIGNAGE-MEN 3" = 1'-0" 7B



TOILET DOOR SIGNAGE-WOMEN 3" = 1'-0" 7C

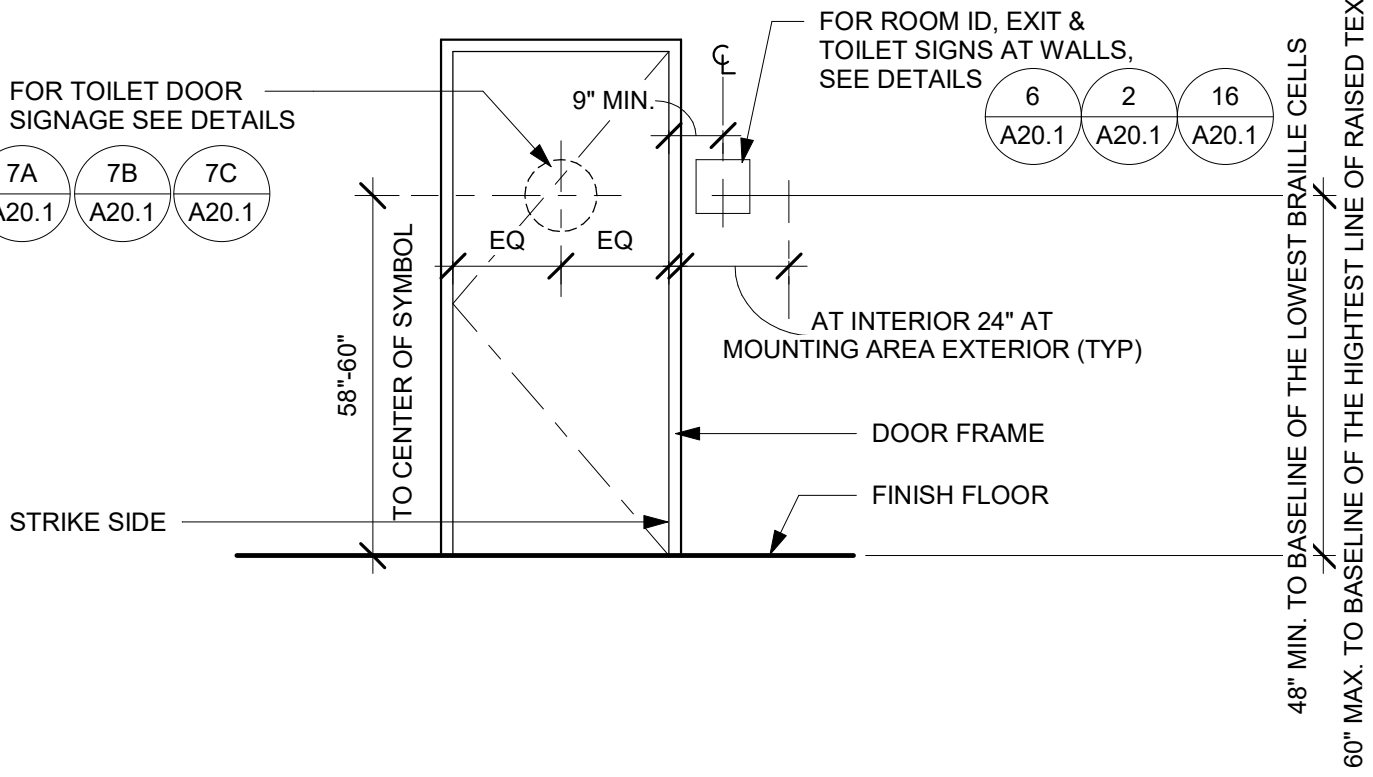
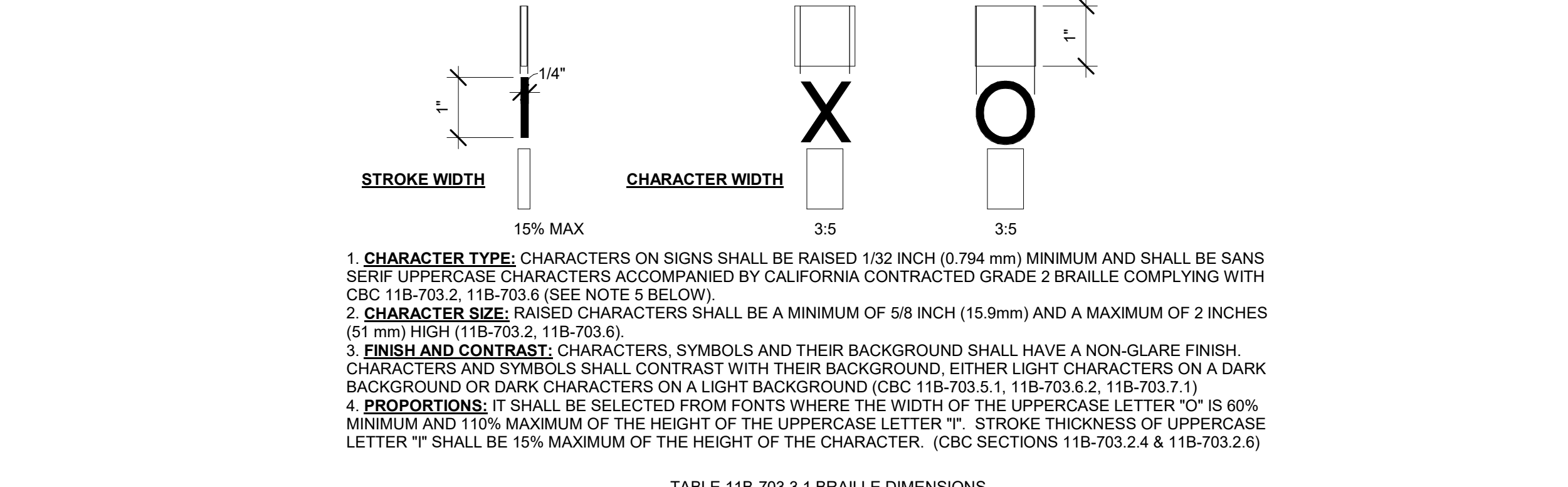


ASSISTIVE LISTENING SIGN 3" = 1'-0" 4

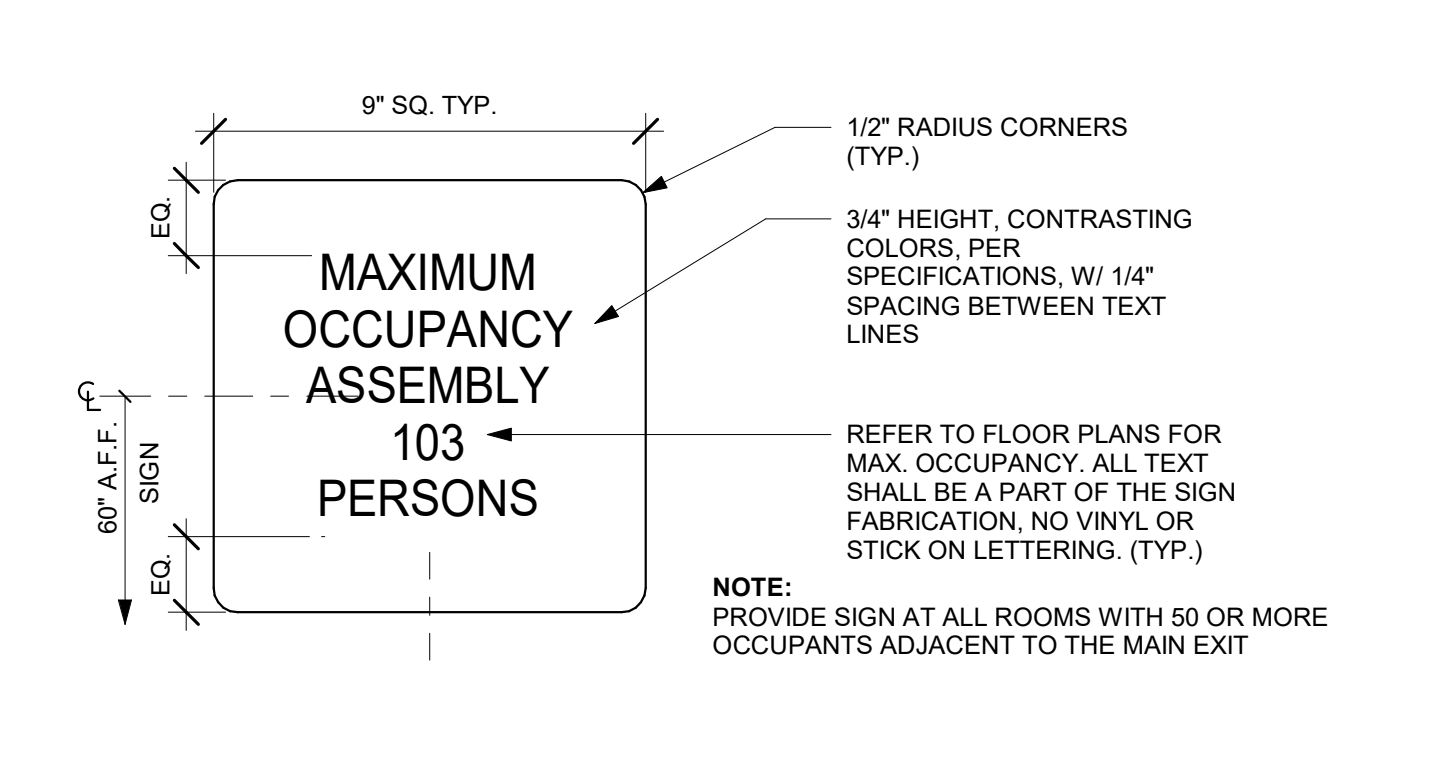


OCCUPANCY LOAD SIGN 3" = 1'-0" 8

ACCESSIBLE TOILET ROOM FIXTURE MOUNTING HEIGHTS DETAIL 1/2" = 1'-0" 5



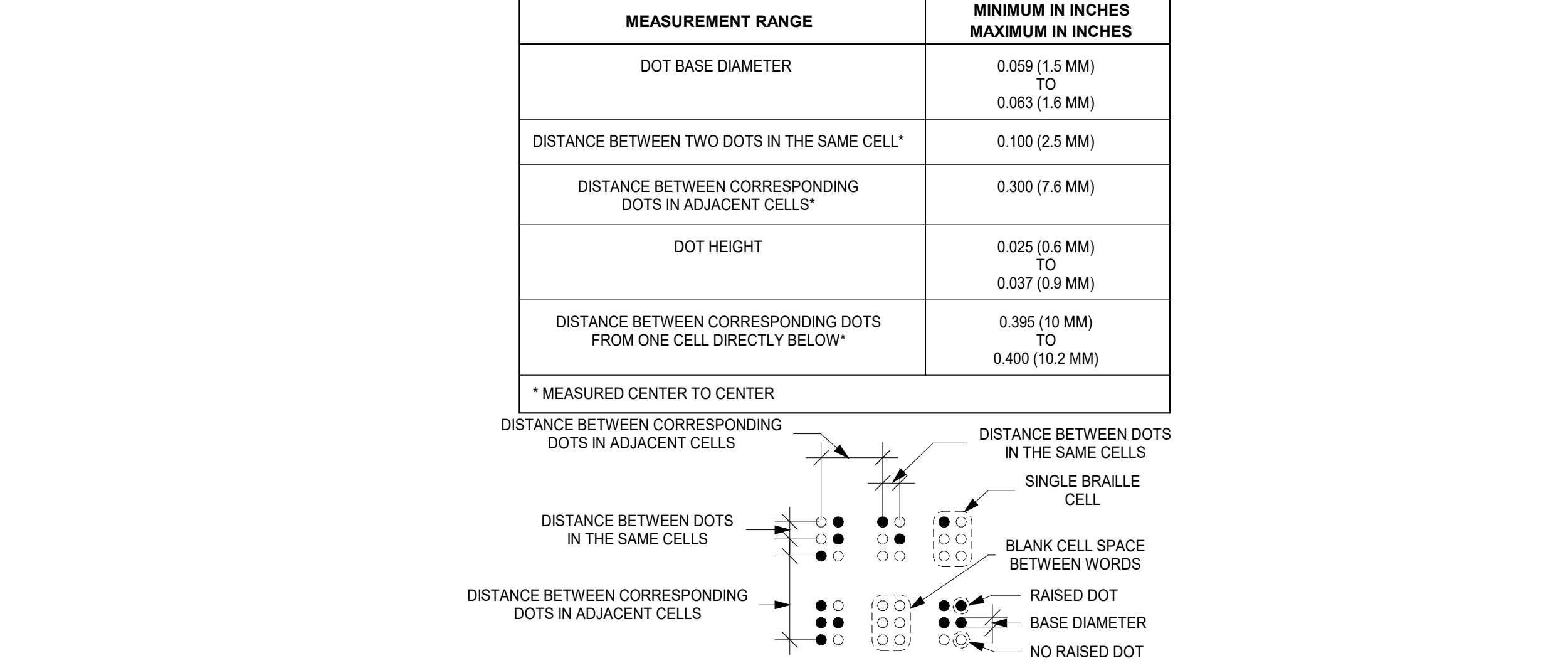
SIGNAGE LOCATION-WALL 3/8" = 1'-0" 10



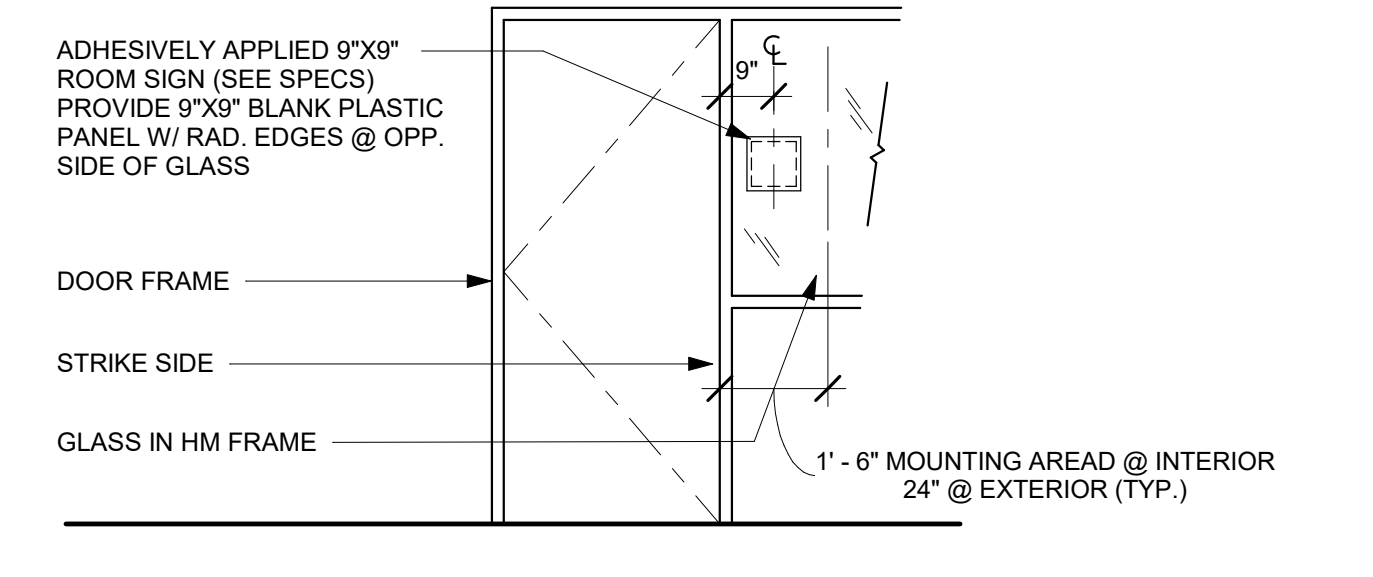
OCCUPANCY LOAD SIGN-ASSEMBLY 3" = 1'-0" 1



ROOM EXIT SIGN 1 1/2" = 1'-0" 16



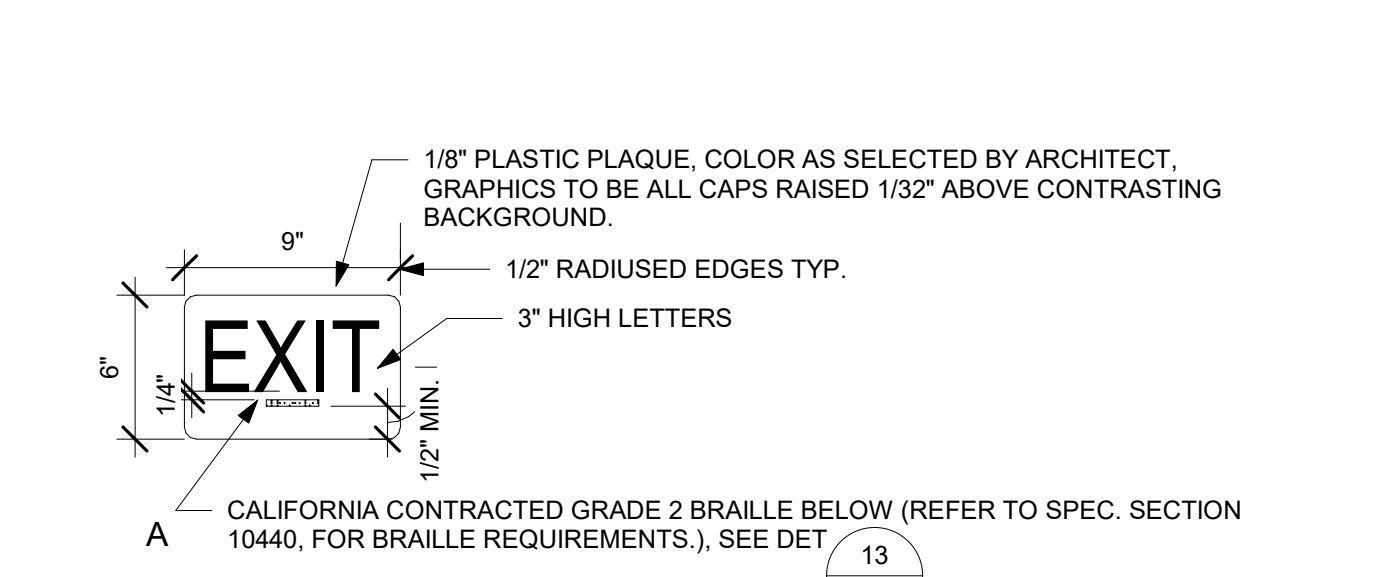
BRAILLE STYLE PROPORTION 6" = 1'-0" 13



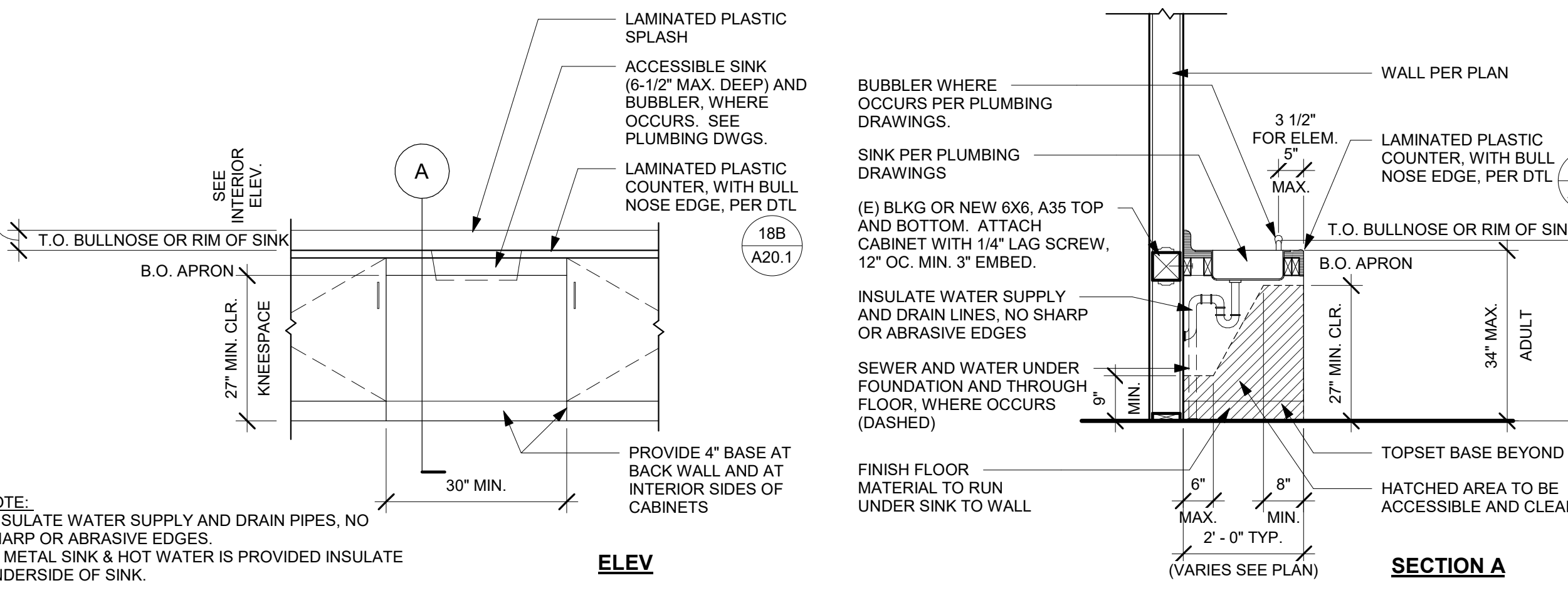
SIGNAGE LOCATION-GLASS 3/8" = 1'-0" 14



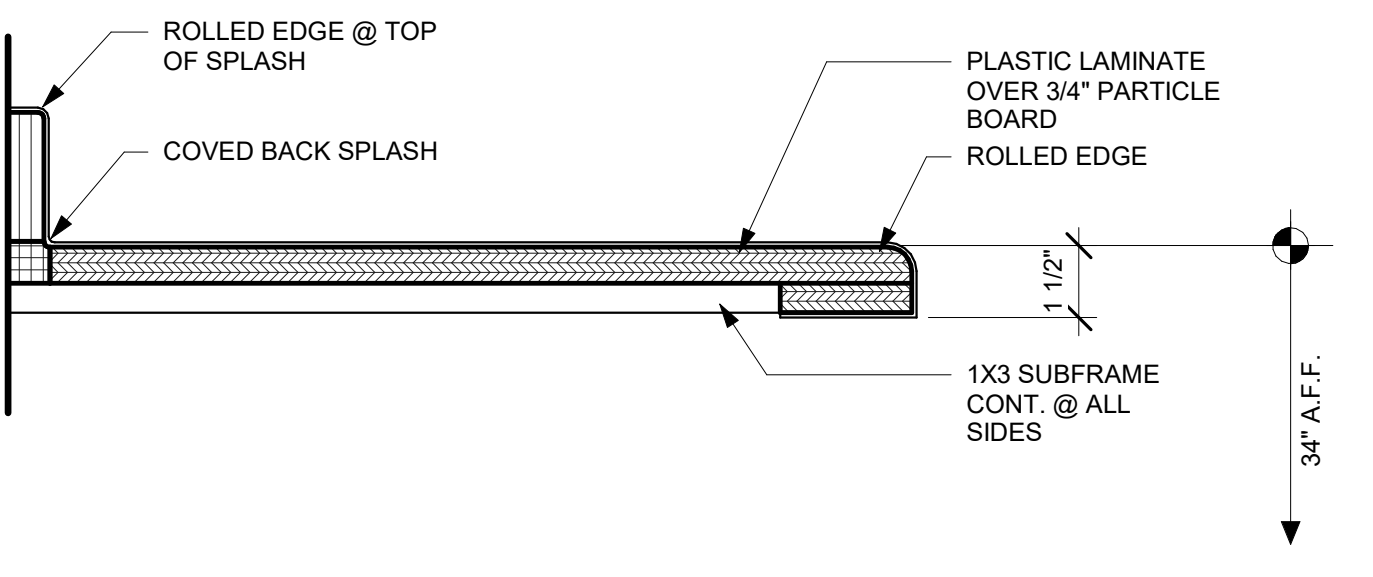
SIGN ATTACHMENT 6" = 1'-0" 19



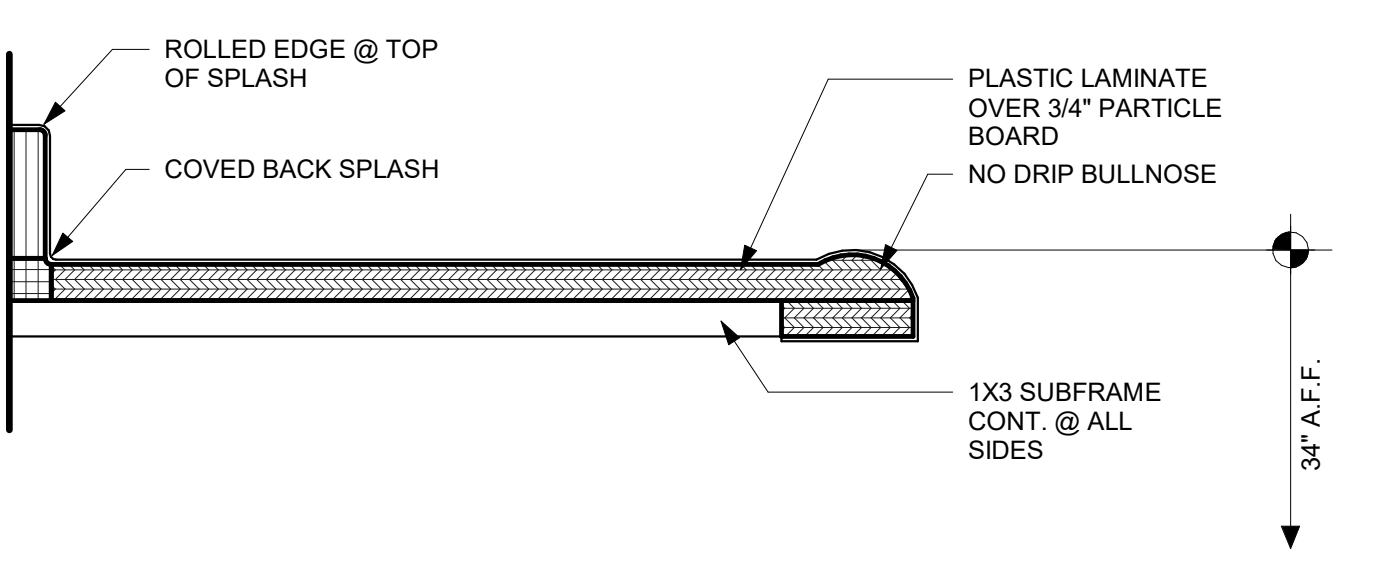
GRAB BAR ATTACHMENT 3" = 1'-0" 20



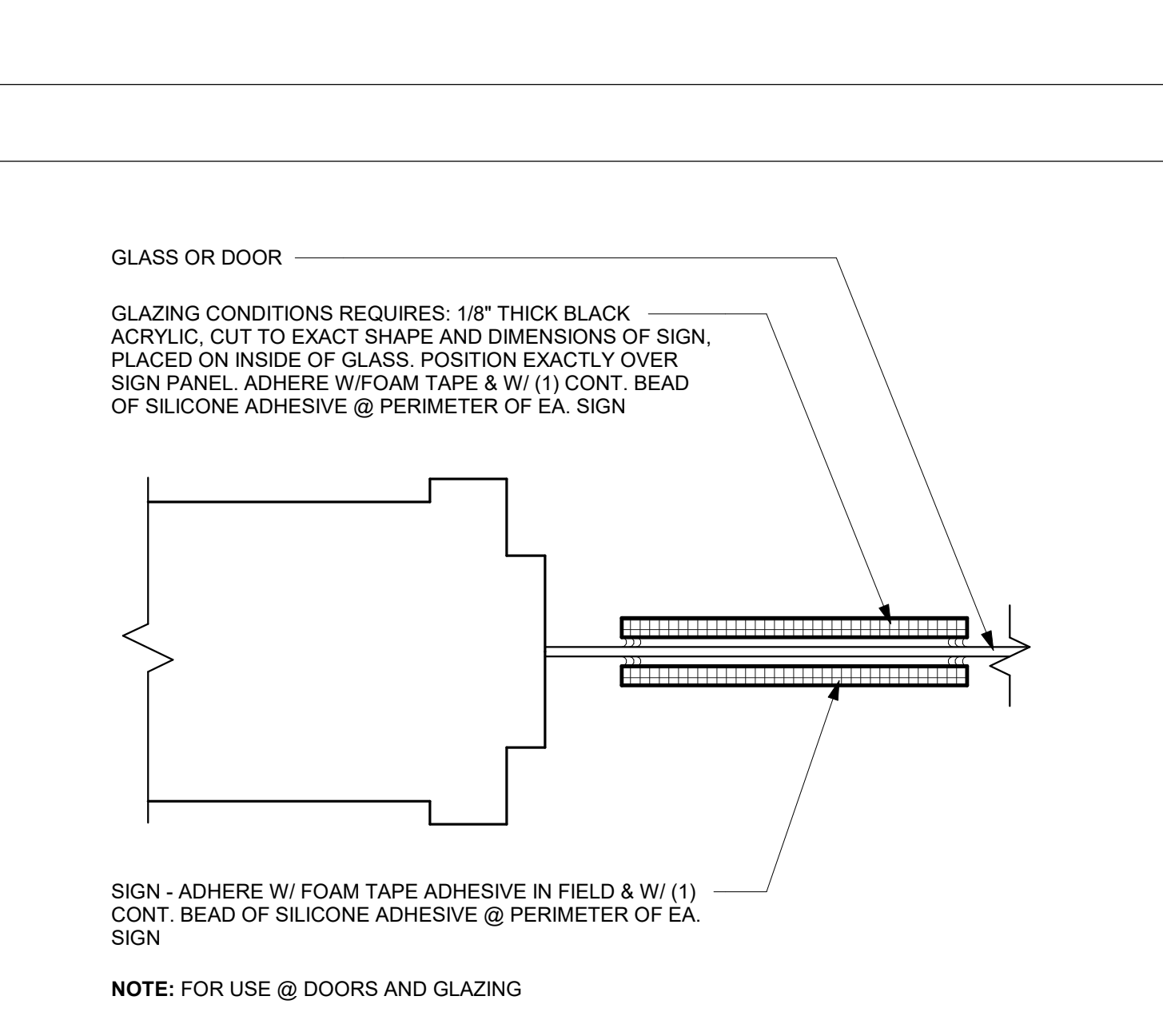
ACCESSIBLE SINK AT CASEWORK 1/2" = 1'-0" 17



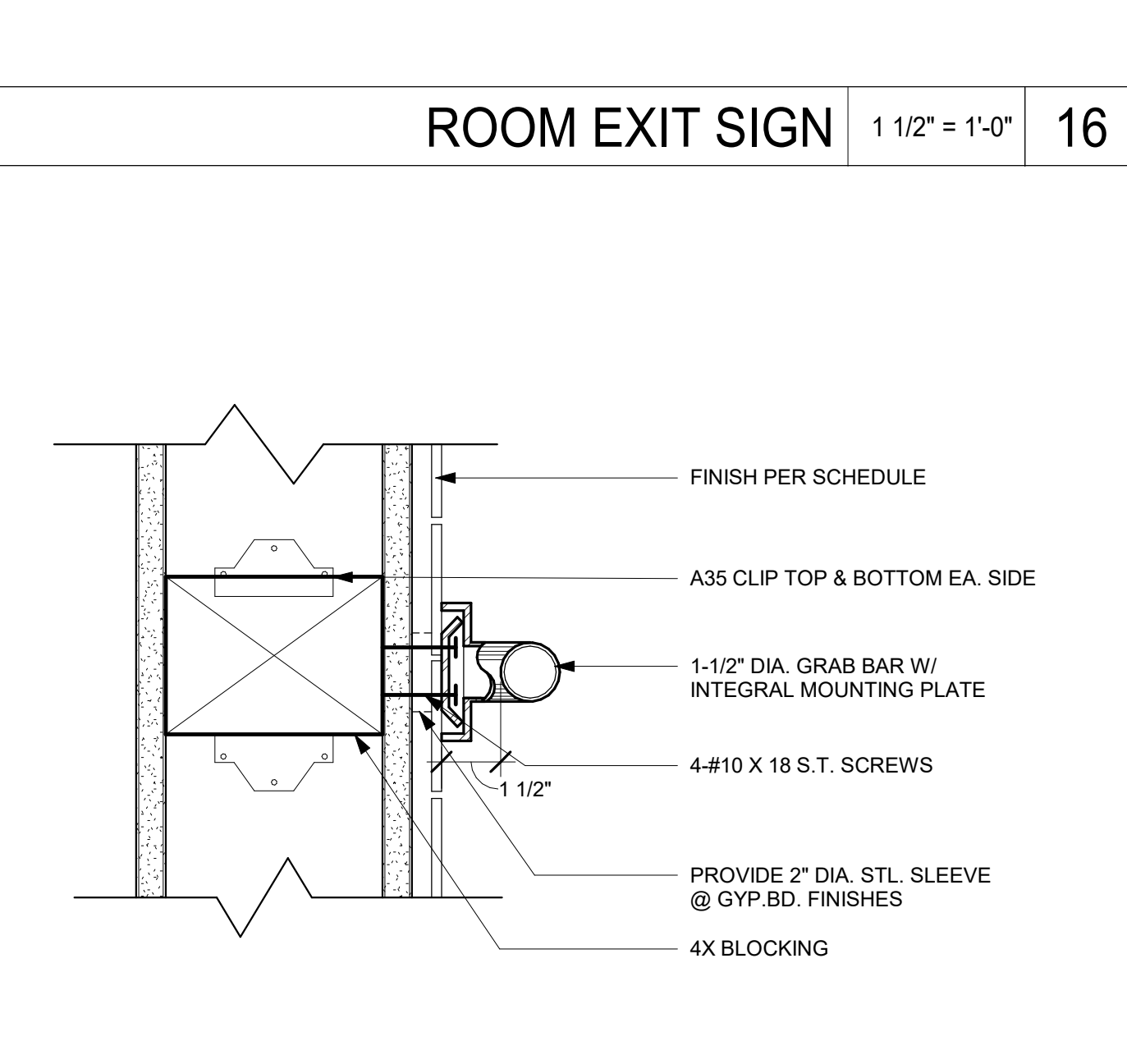
COUNTERTOP-ROLLED EDGE 3" = 1'-0" 18A



COUNTERTOP-FORMED EDGE 3" = 1'-0" 18B



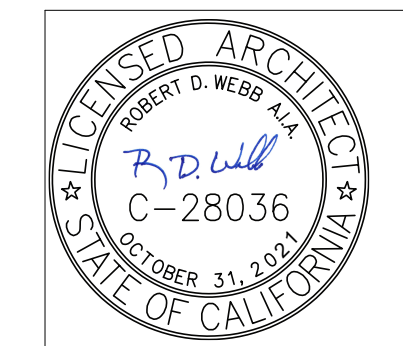
SIGN ATTACHMENT 6" = 1'-0" 19



GRAB BAR ATTACHMENT 3" = 1'-0" 20

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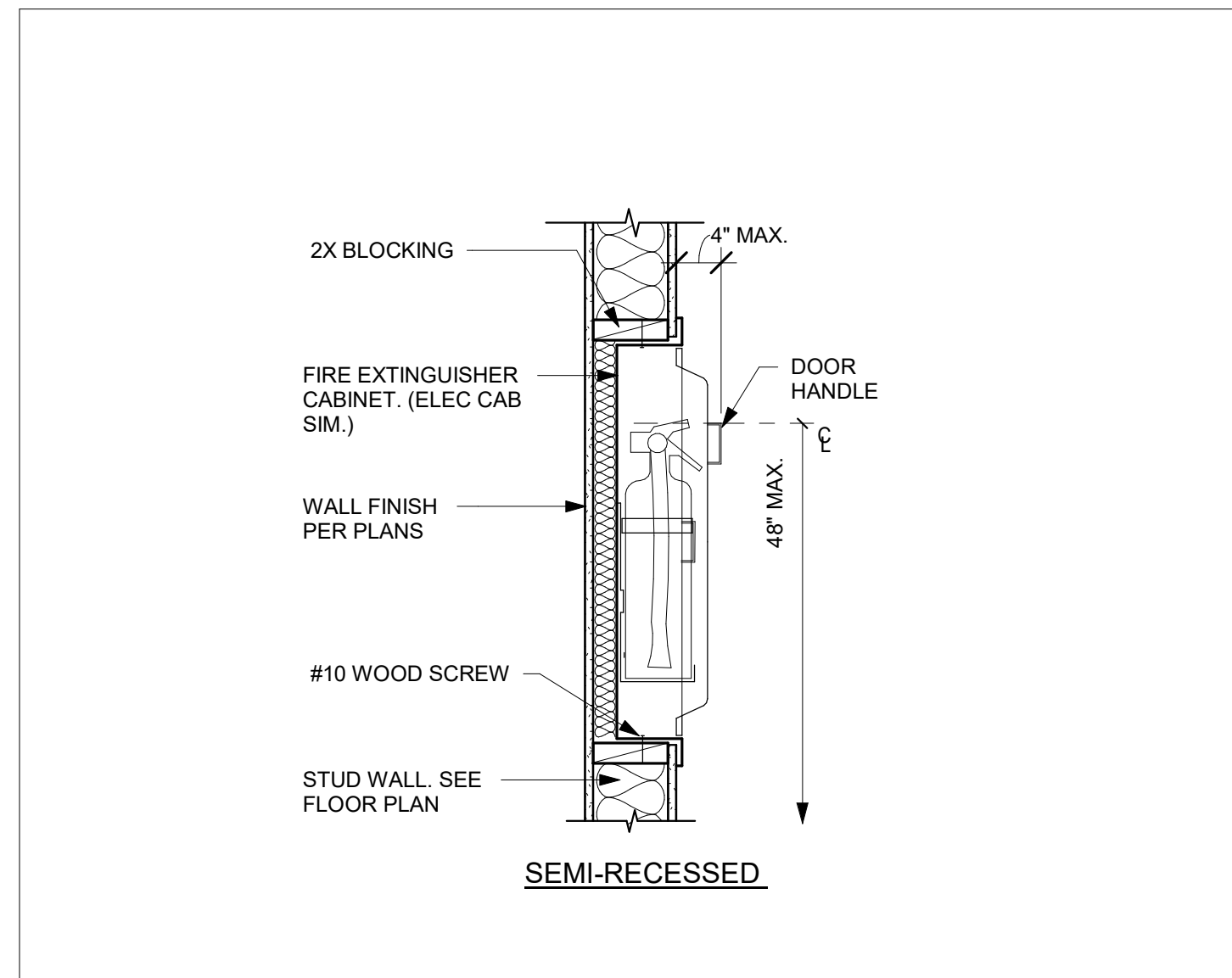


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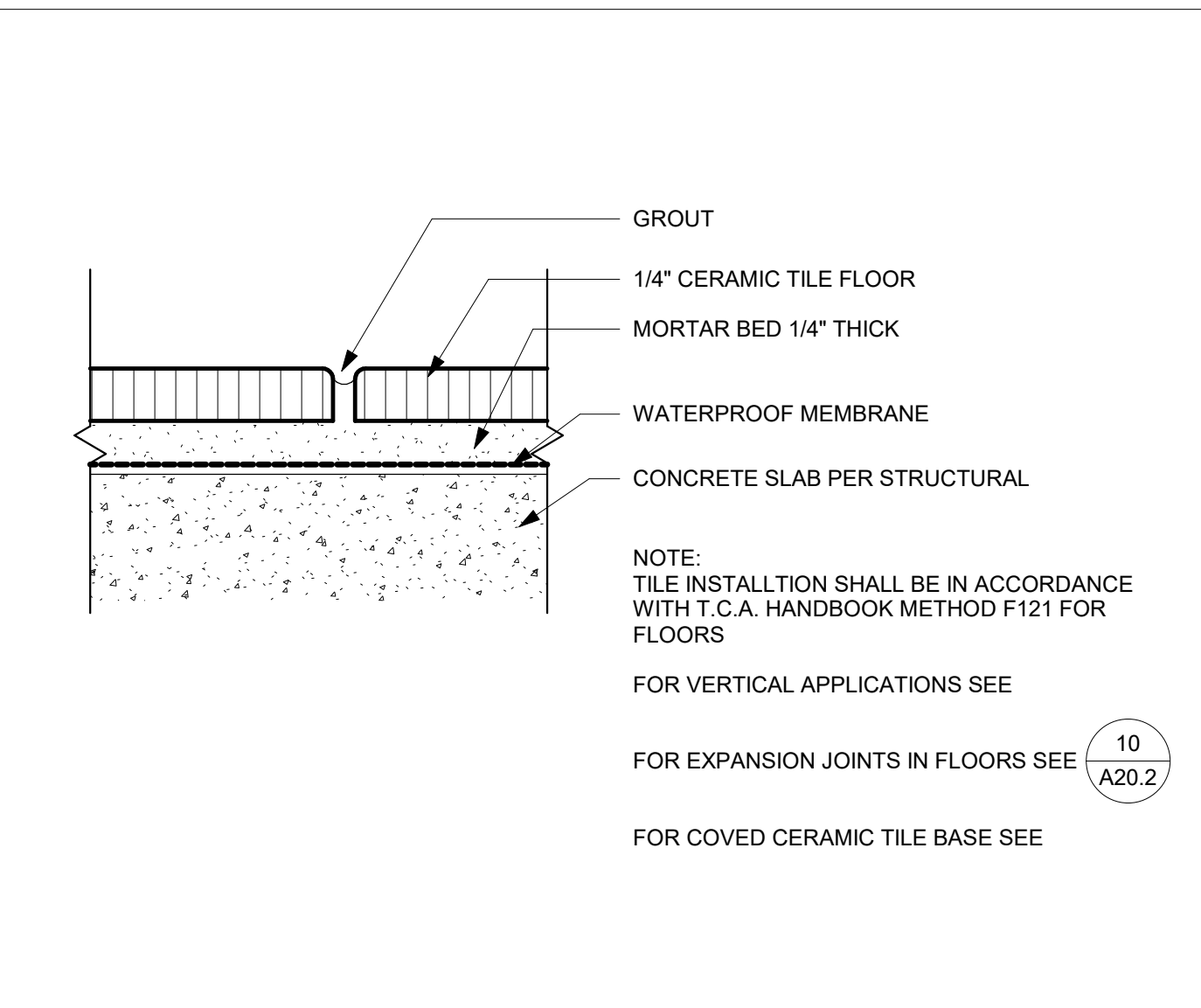
INTERIOR DETAILS

Drawn: RI
 Checked: RDW
 Date: OCT. 14, 2019
 Job: SSD-PA-03

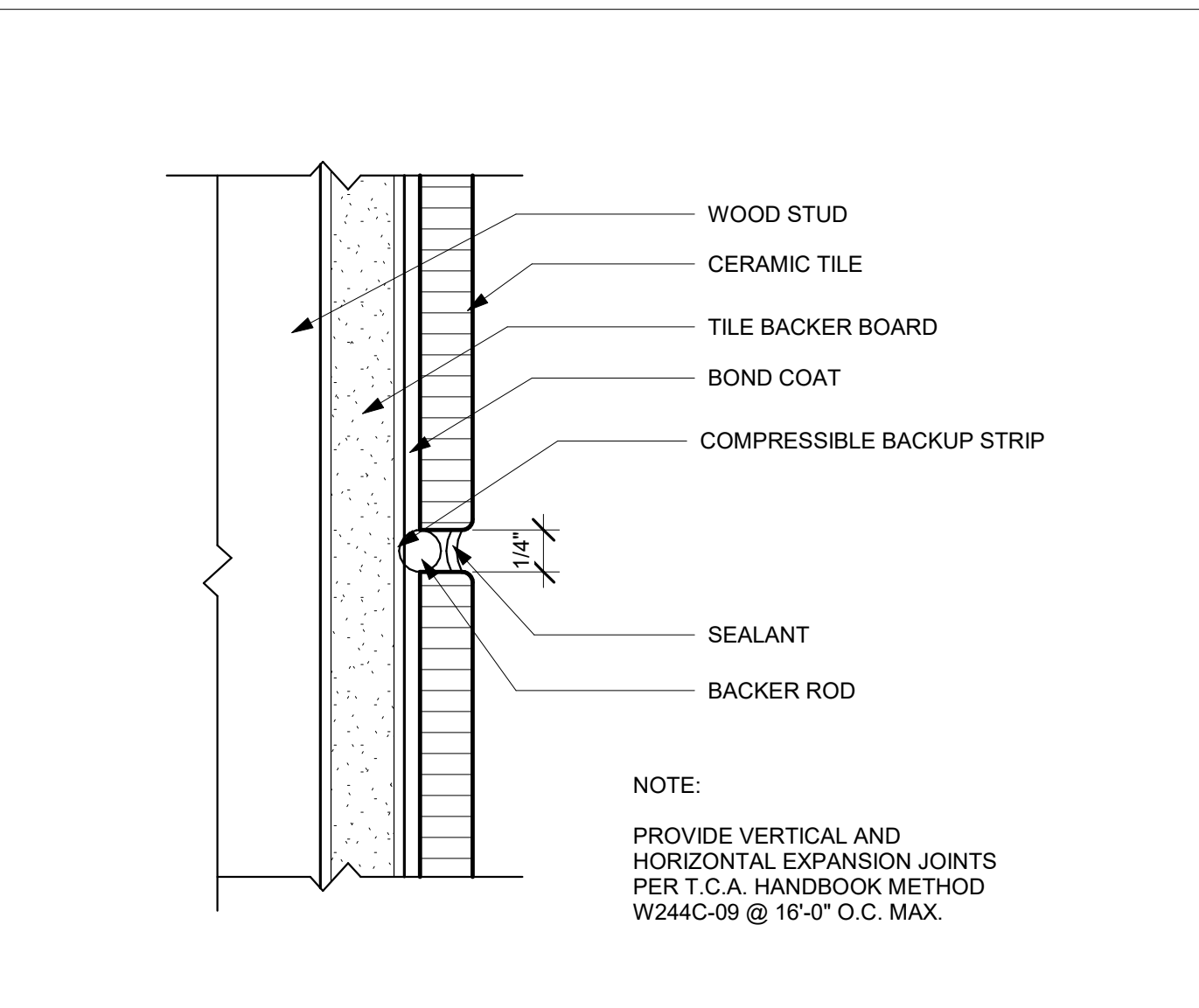
A20.2



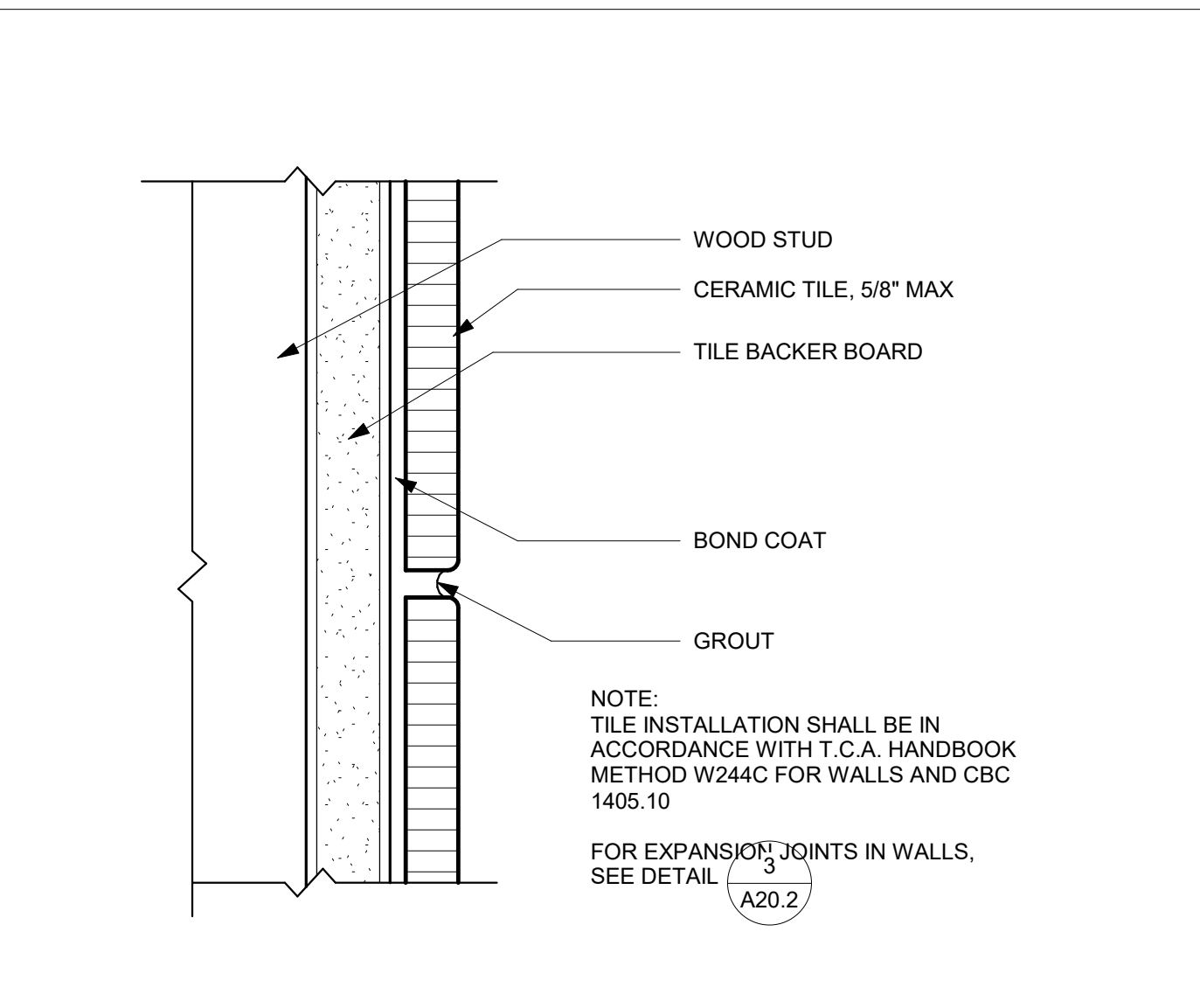
FIRE EXTINGUISHER 1" = 1'-0" 1



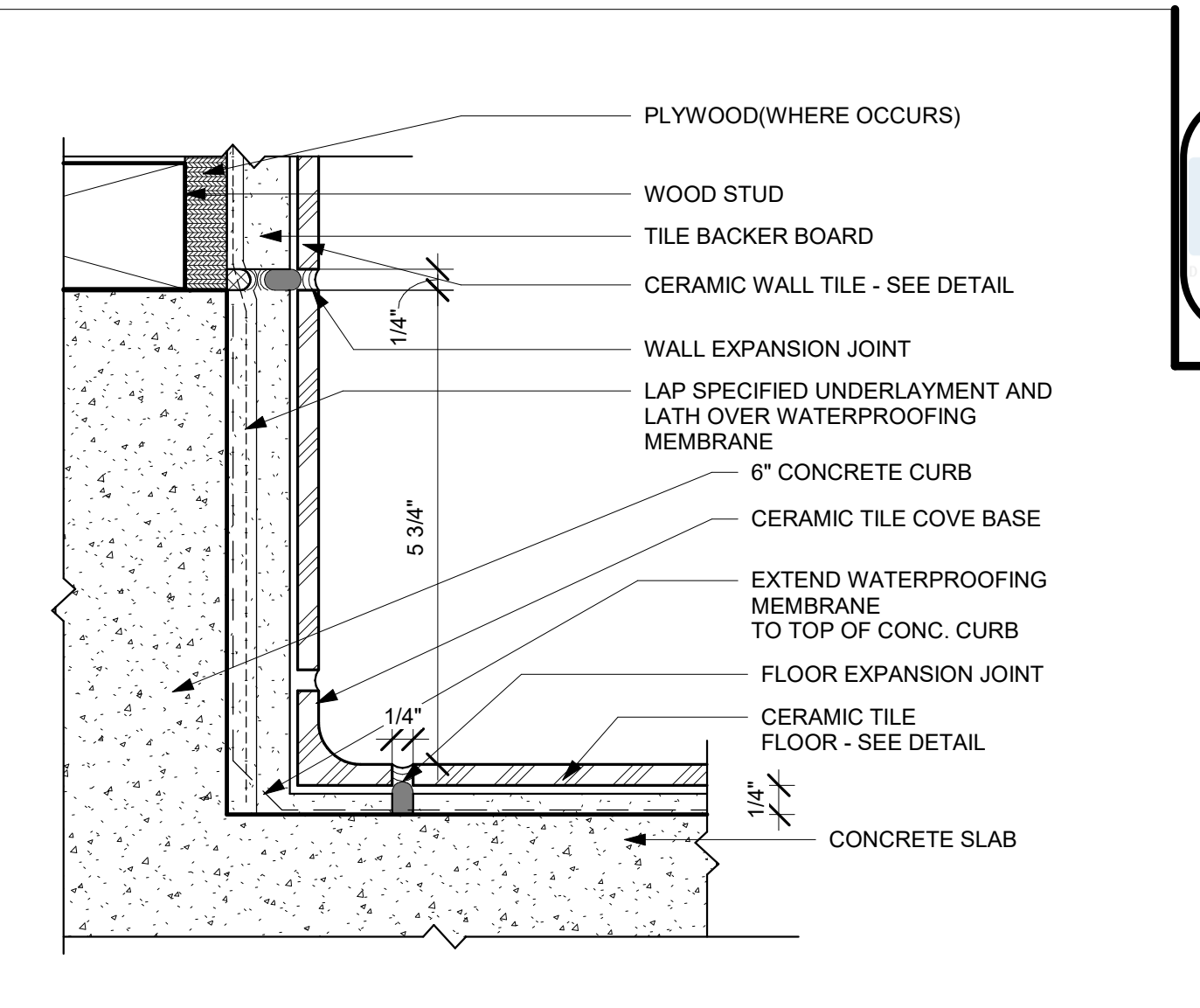
FLOOR TILE 12" = 1'-0" 2



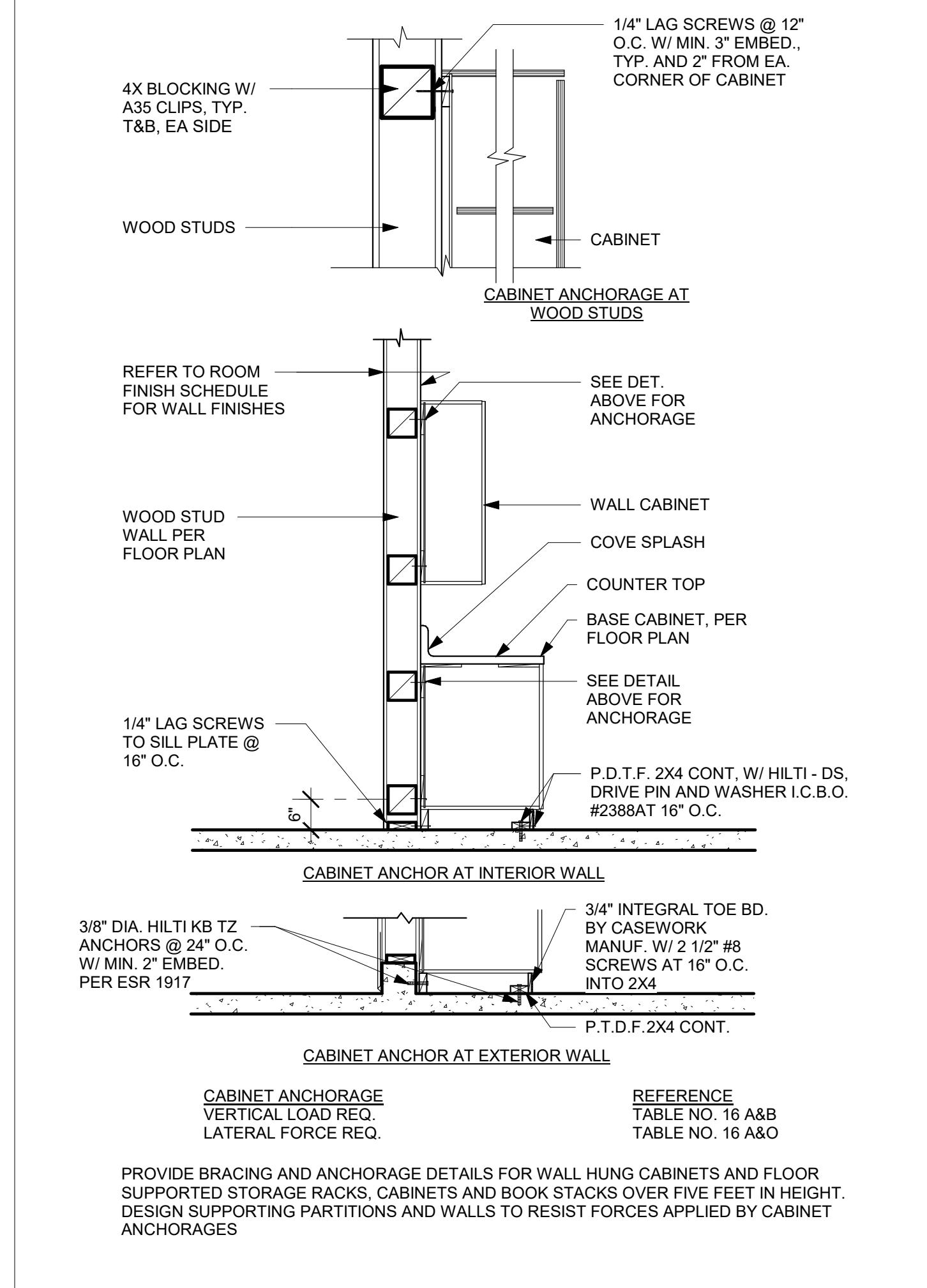
JOINT AT TILE WALL 12" = 1'-0" 3



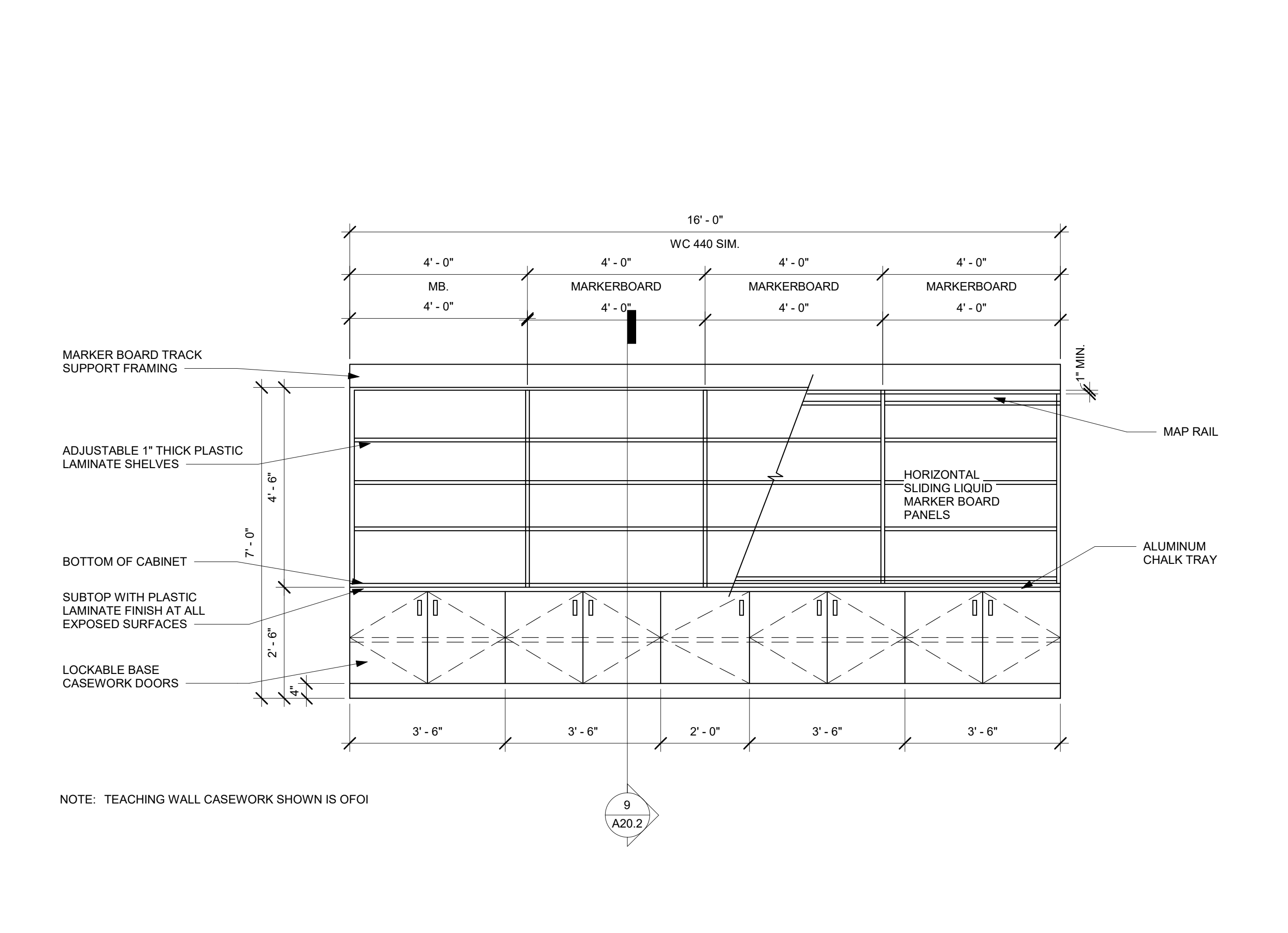
TILE WALL 12" = 1'-0" 4



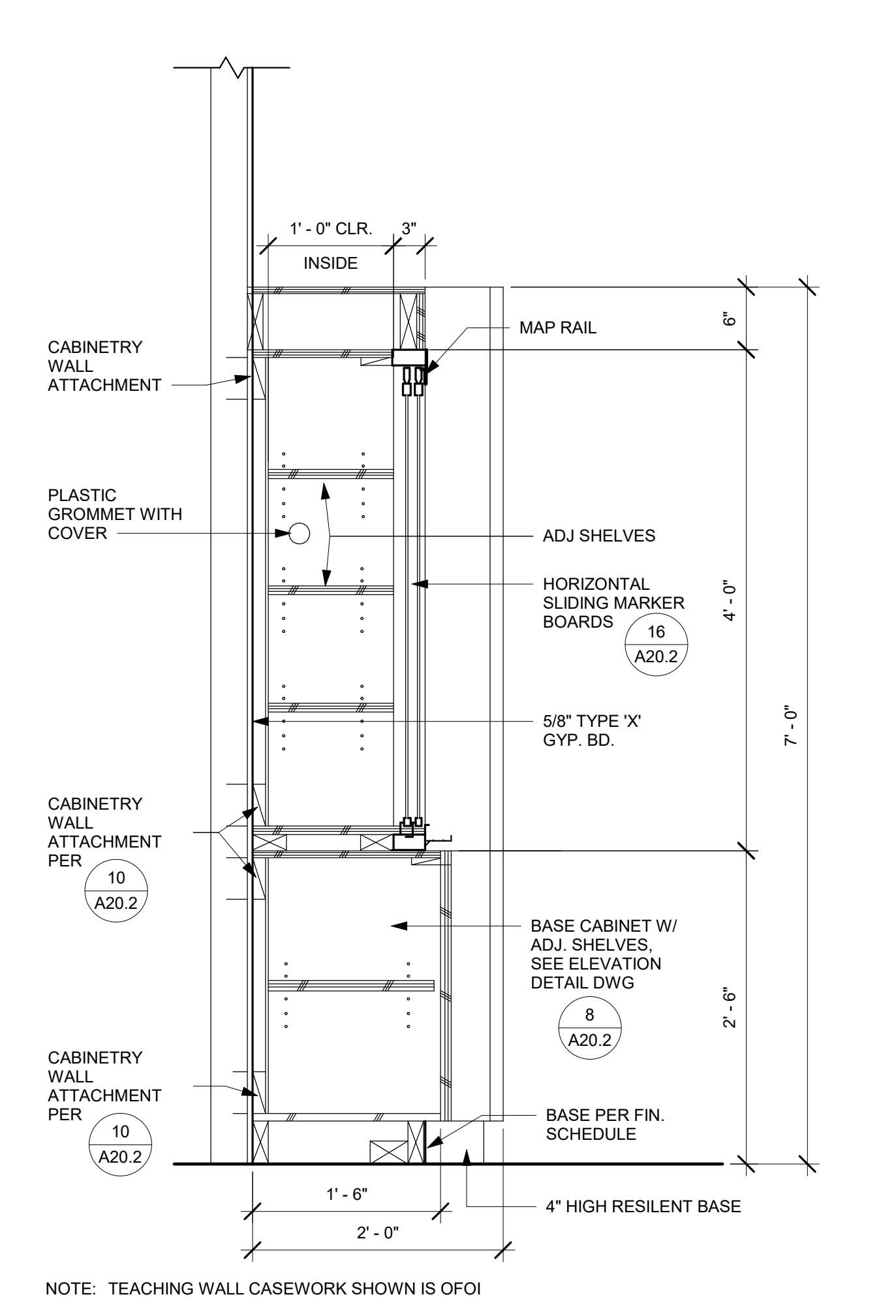
TILE COVE BASE 6" = 1'-0" 5



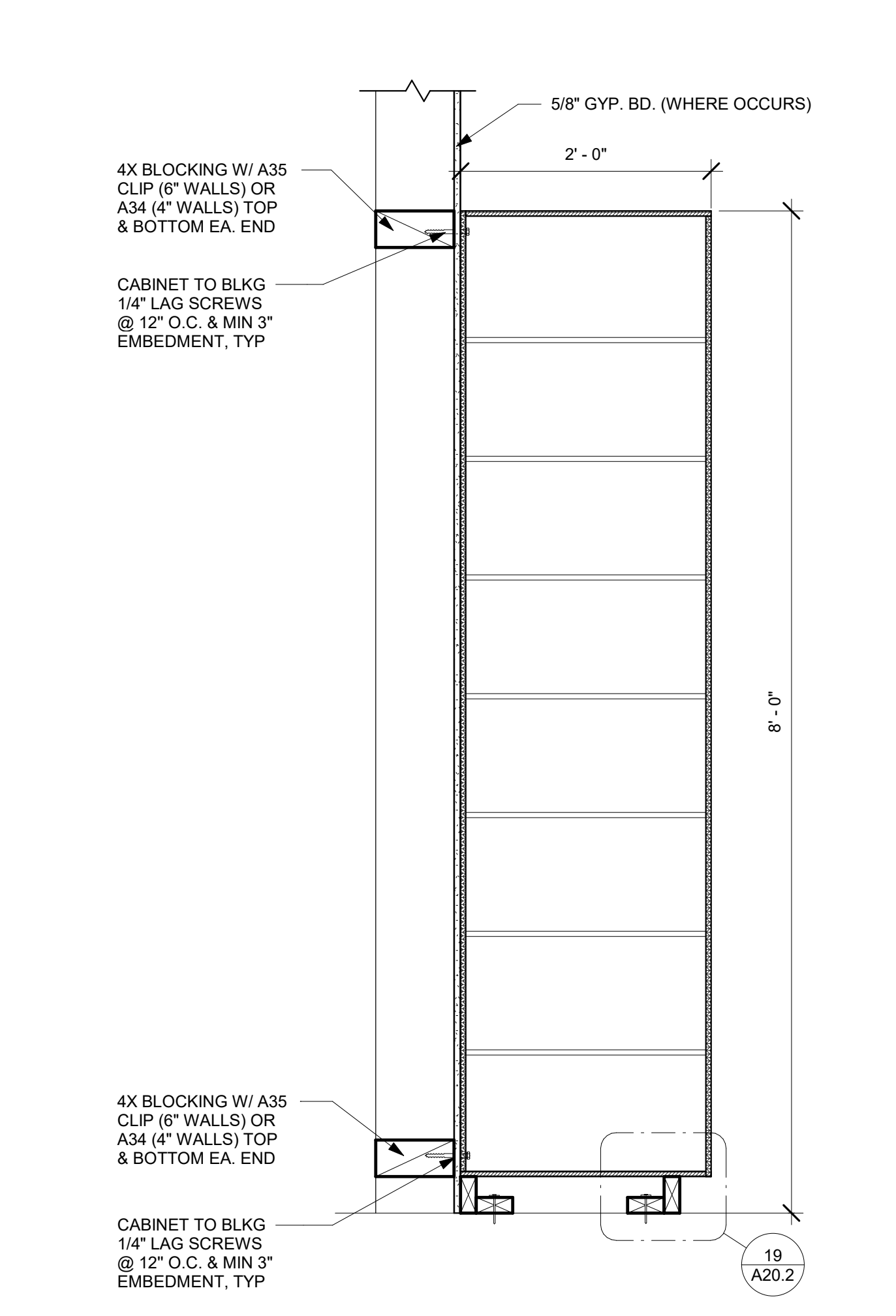
CABINERY WALL ATTACHMENT 1/2" = 1'-0" 6



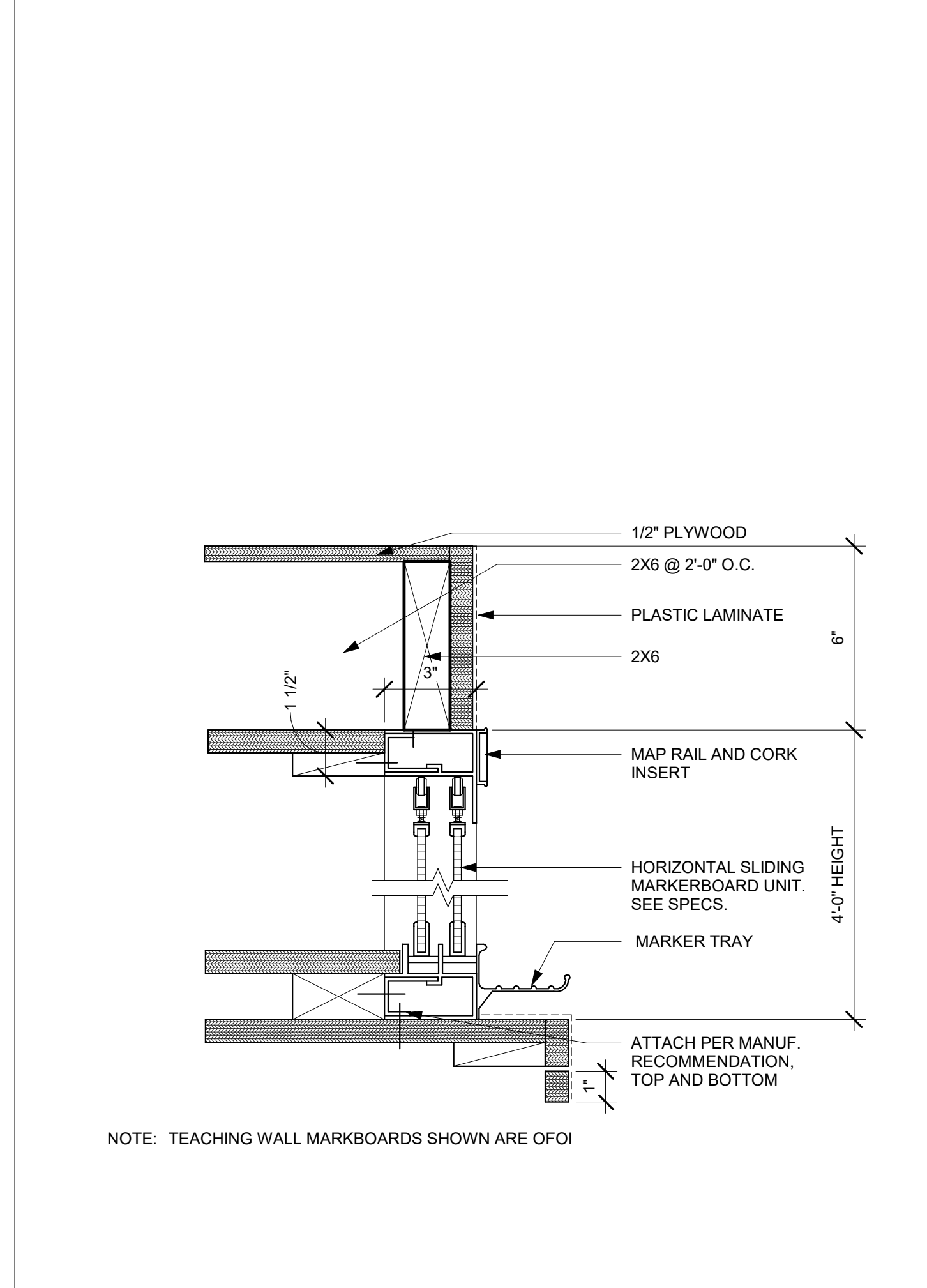
TEACHING WALL ELEVATION 1/2" = 1'-0" 8



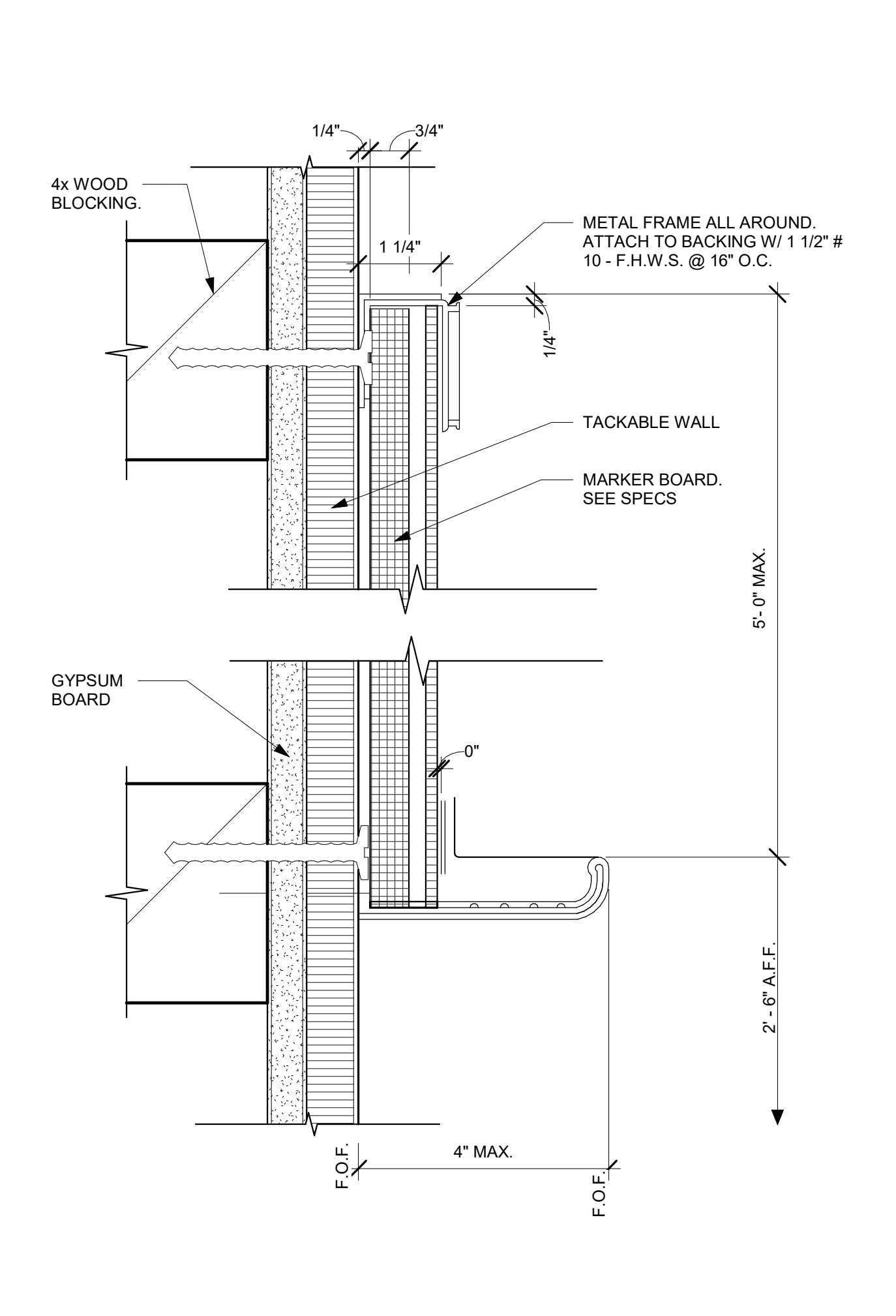
TEACHING WALL SECTION 1" = 1'-0" 9



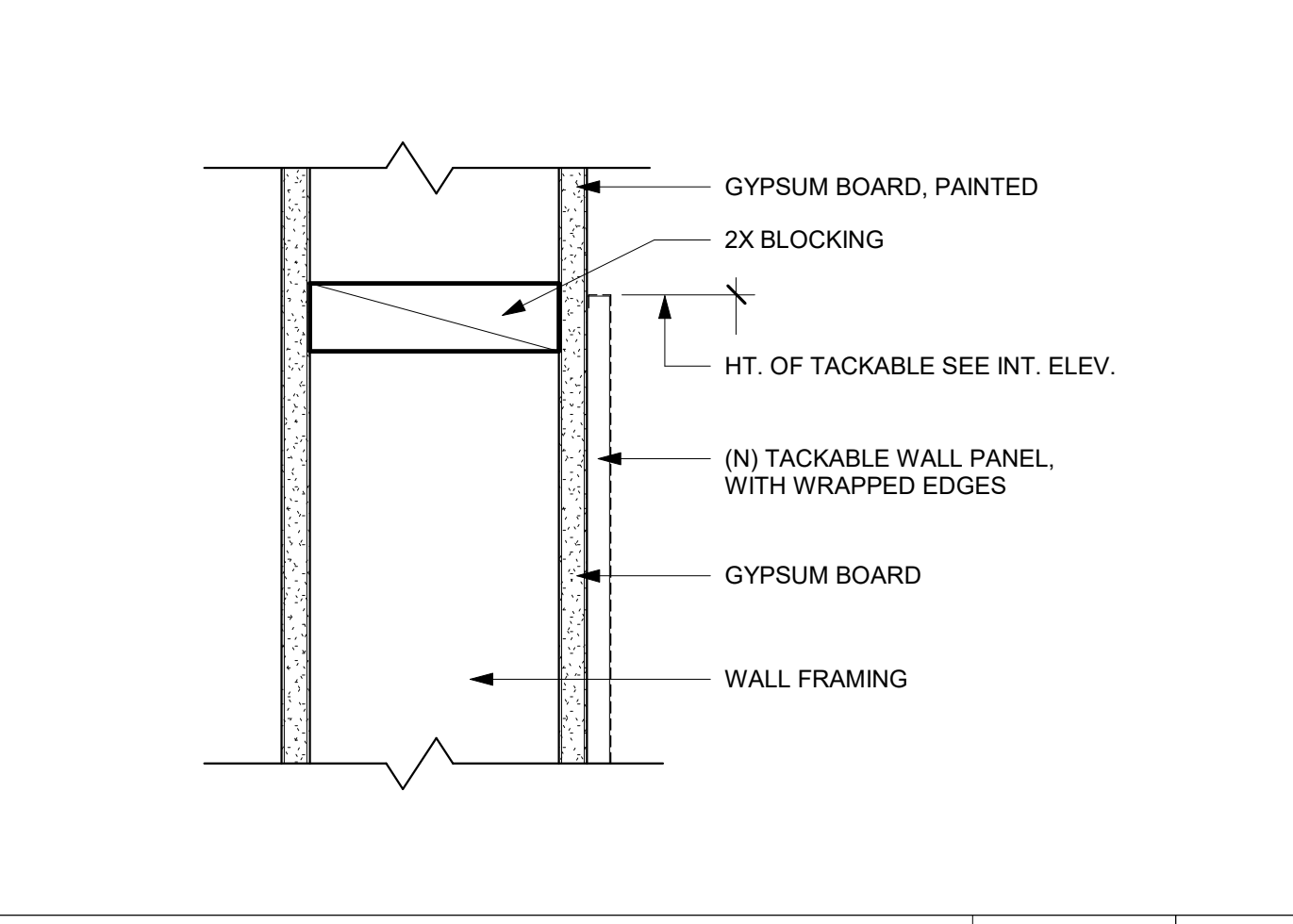
CABINET ANCHORAGE 1" = 1'-0" 10



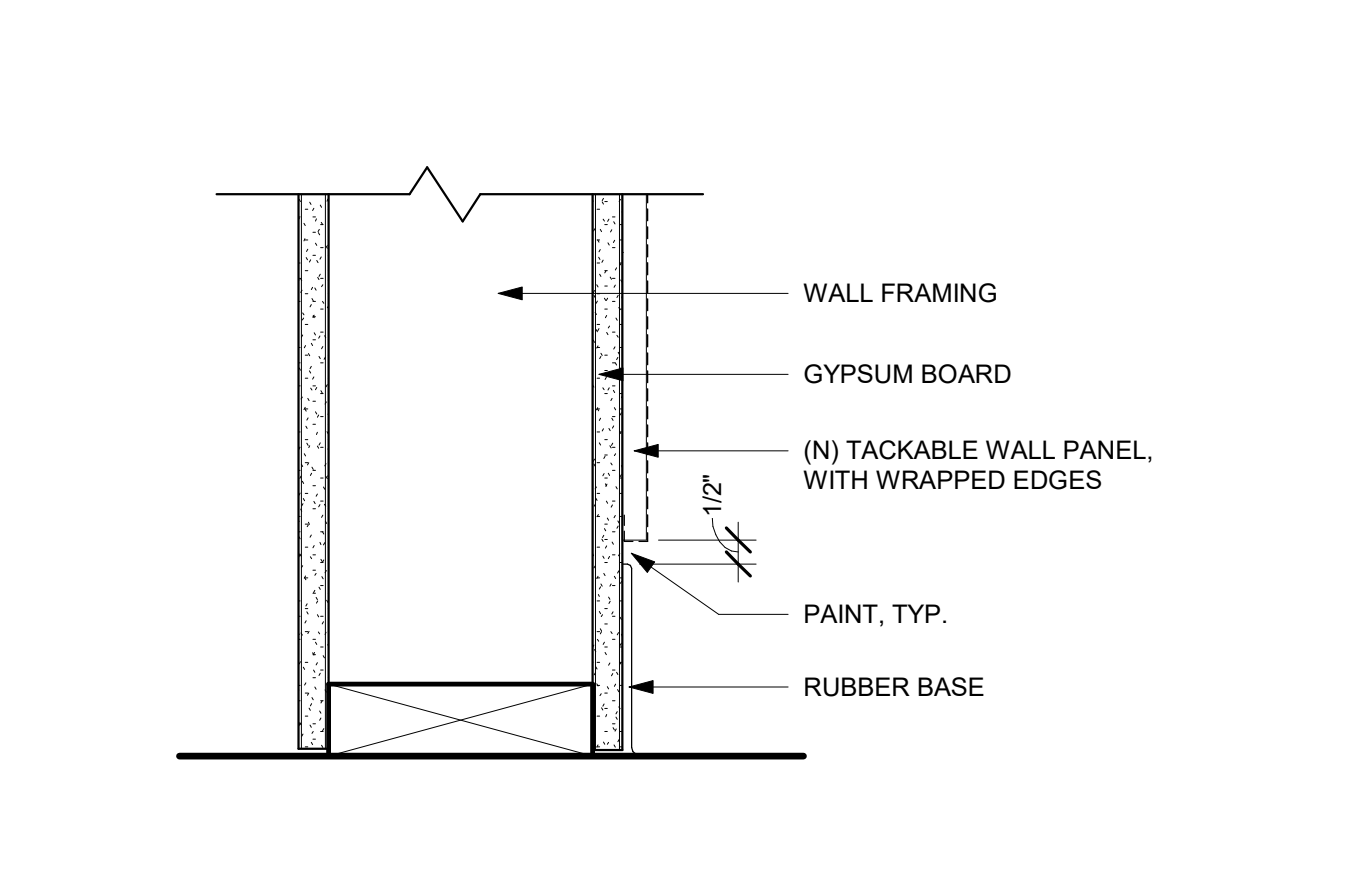
2 TRACK SLIDING MARKERBOARD 3" = 1'-0" 16



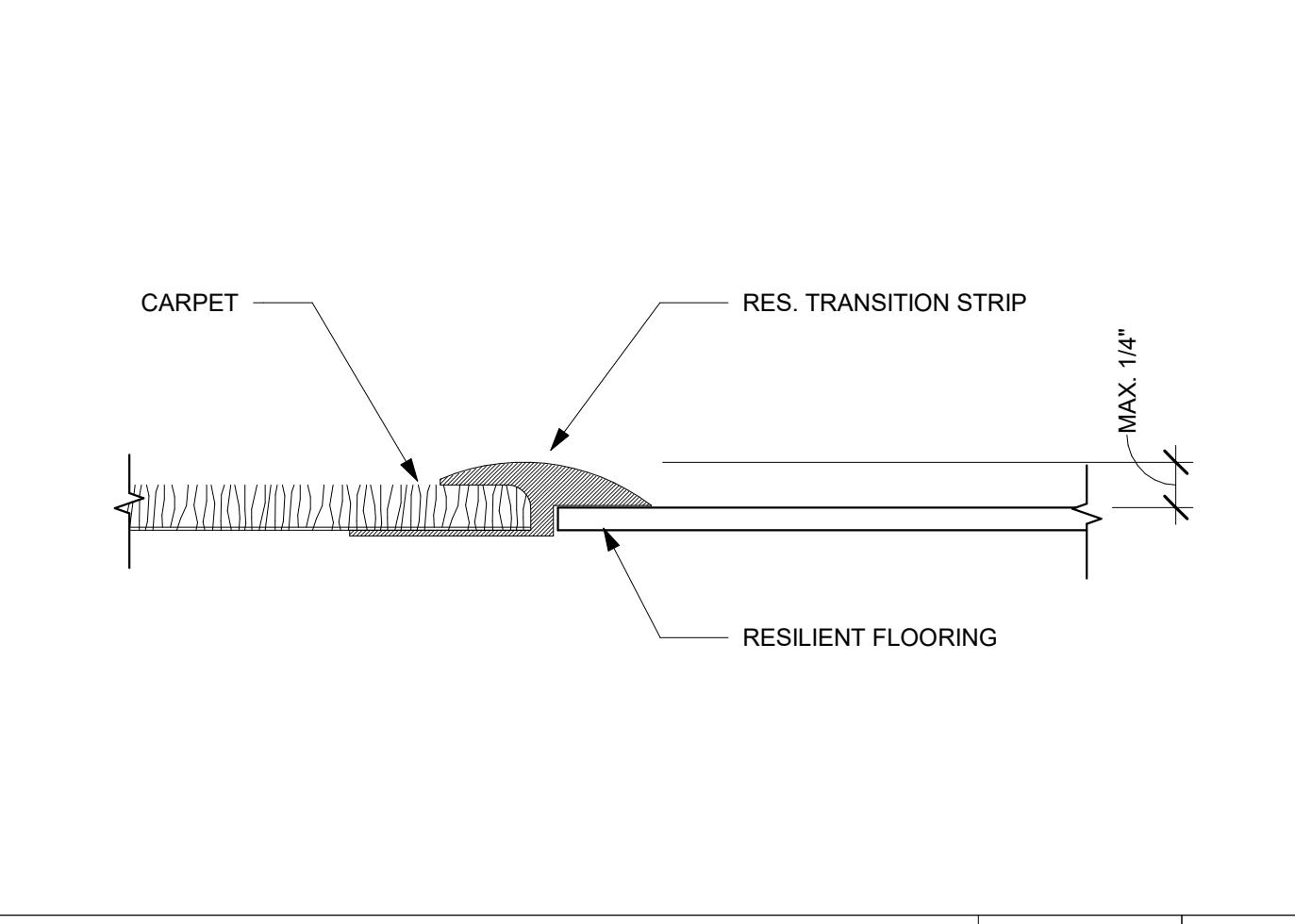
MARKERBOARD WALL MOUNTED 6" = 1'-0" 17



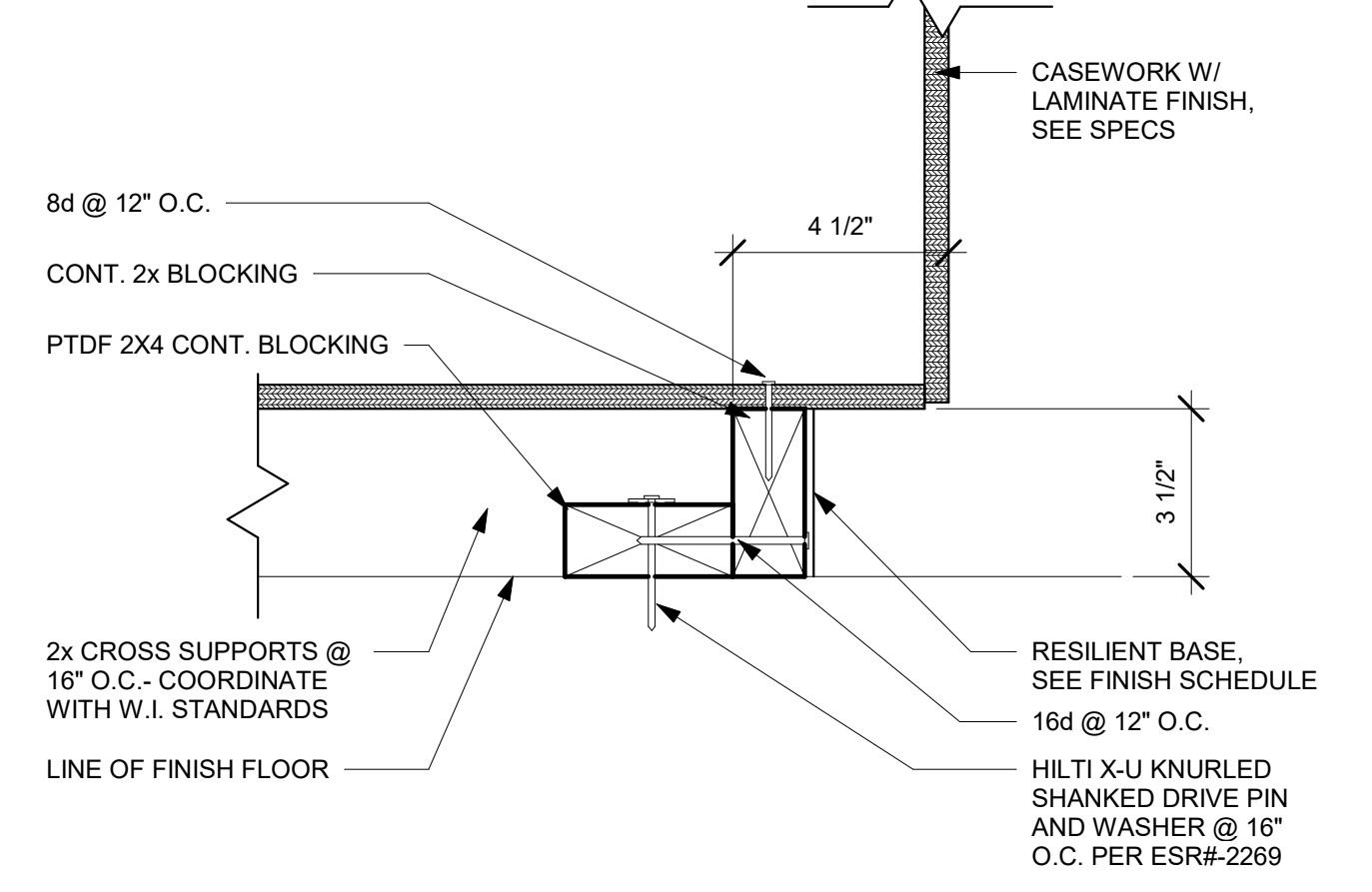
TACKABLE PANEL AT TOP 3" = 1'-0" 13



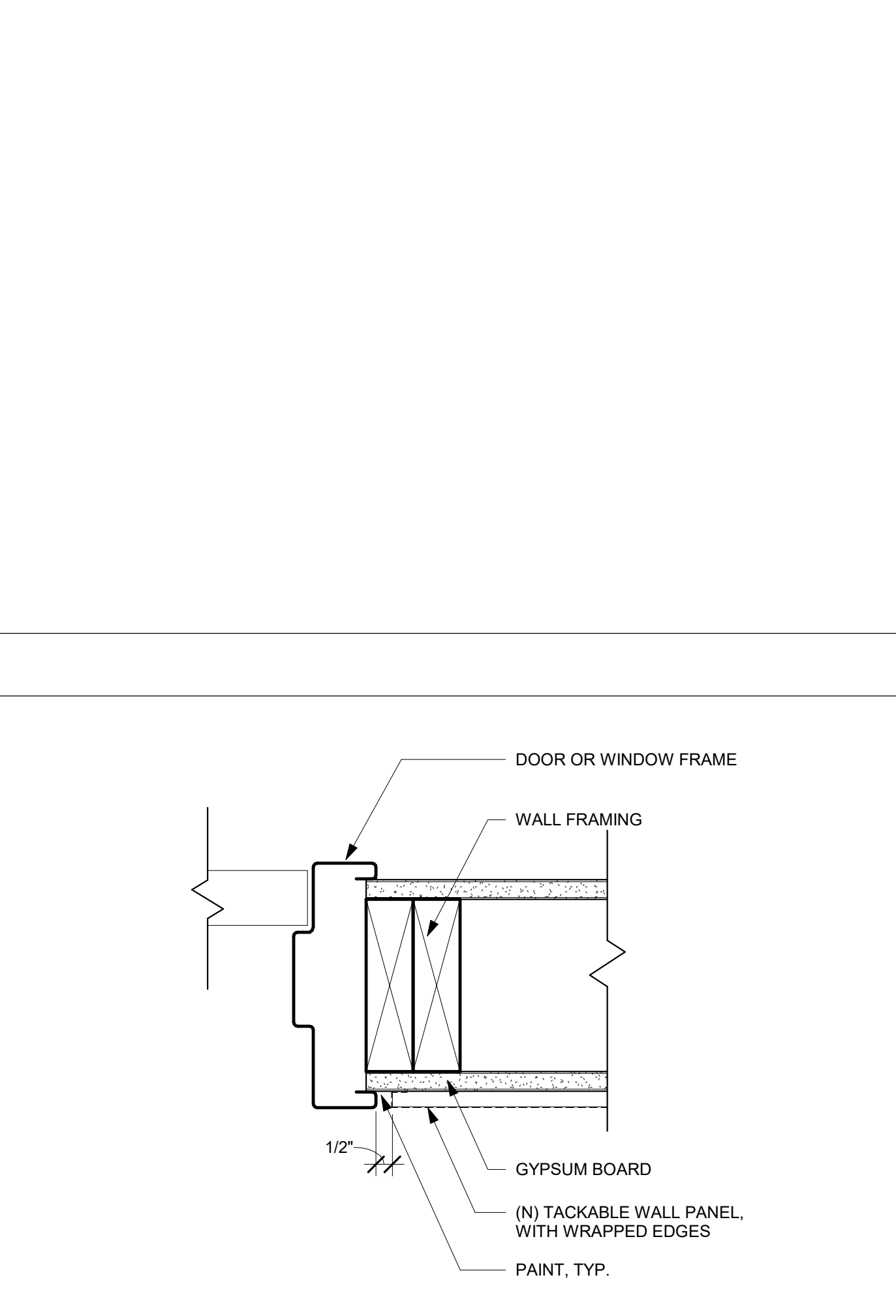
TACKABLE PANEL AT BASE 3" = 1'-0" 18



CARPET/RES. TRANSITION 12" = 1'-0" 14



BASE ANCHOR @ FRONT 3" = 1'-0" 19



TACKABLE PANEL AT FRAME 3" = 1'-0" 20

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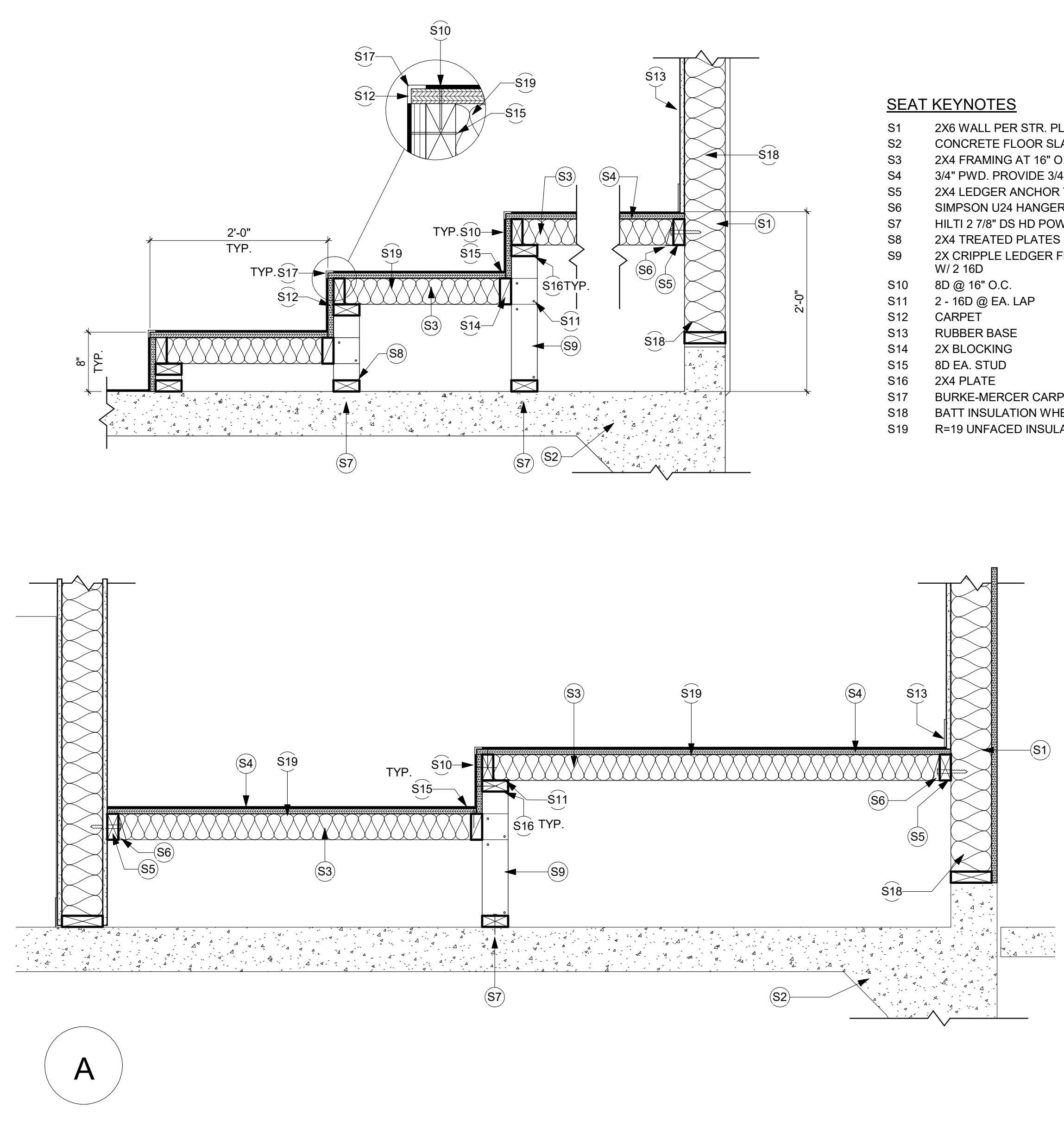
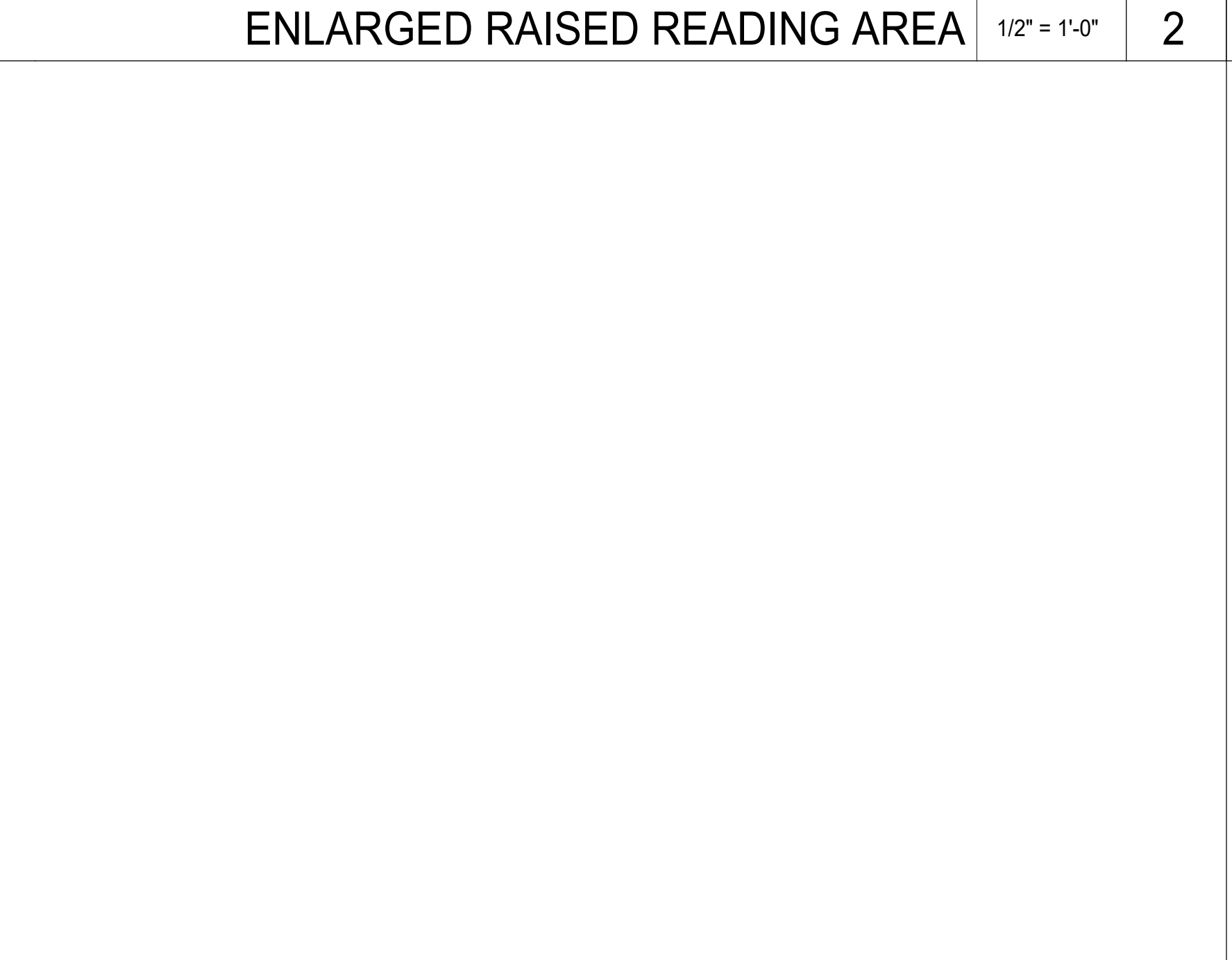
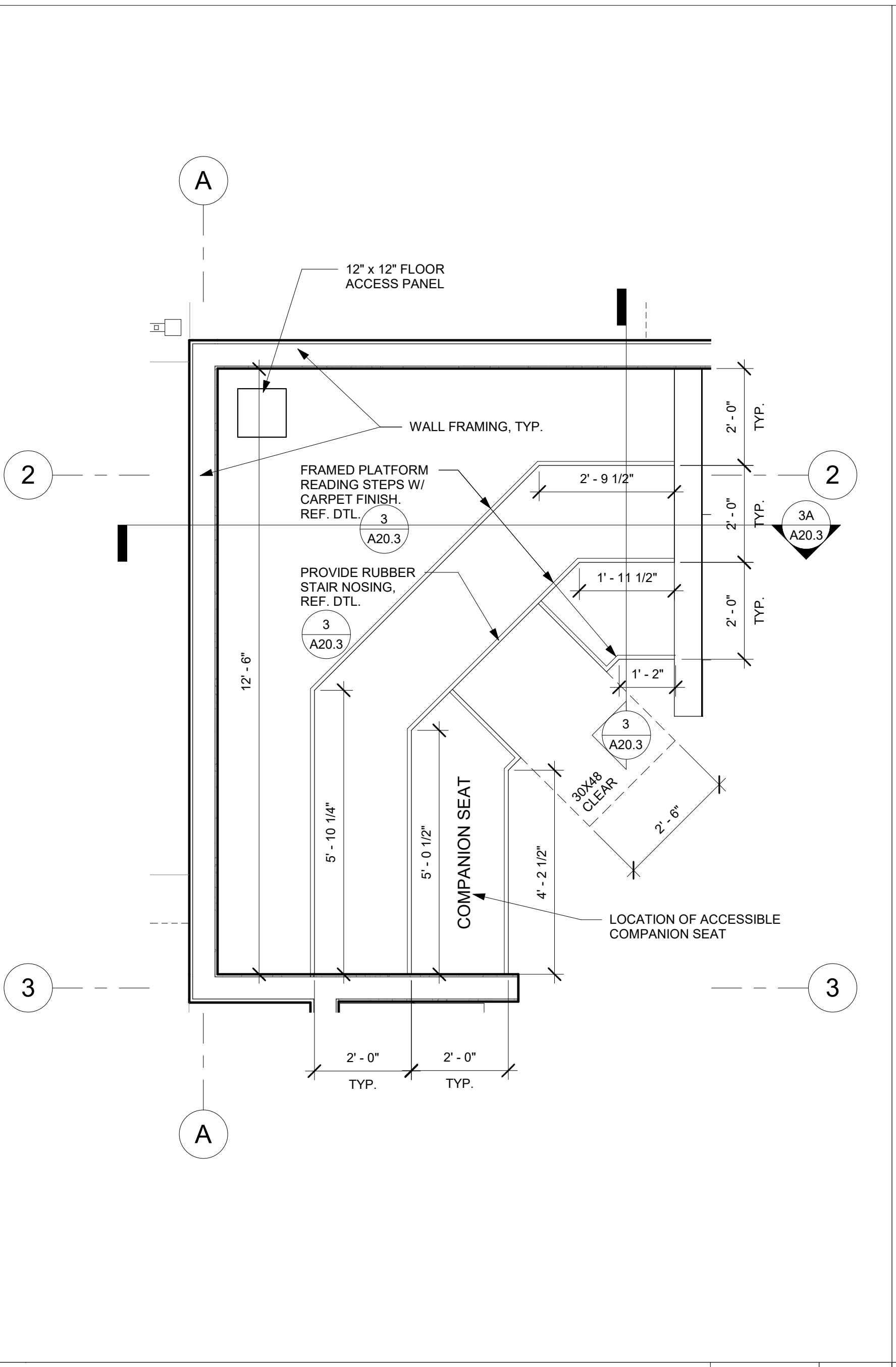
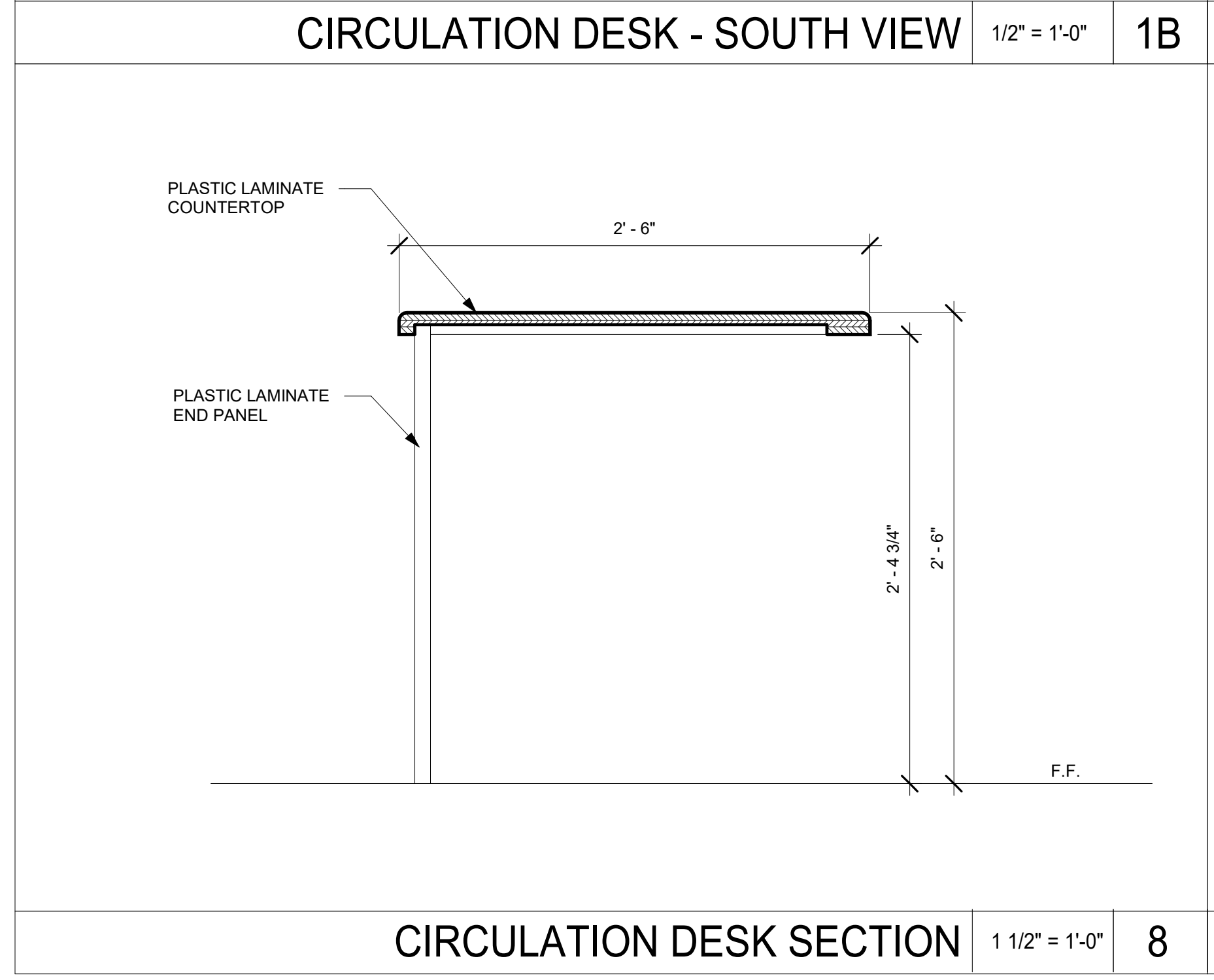
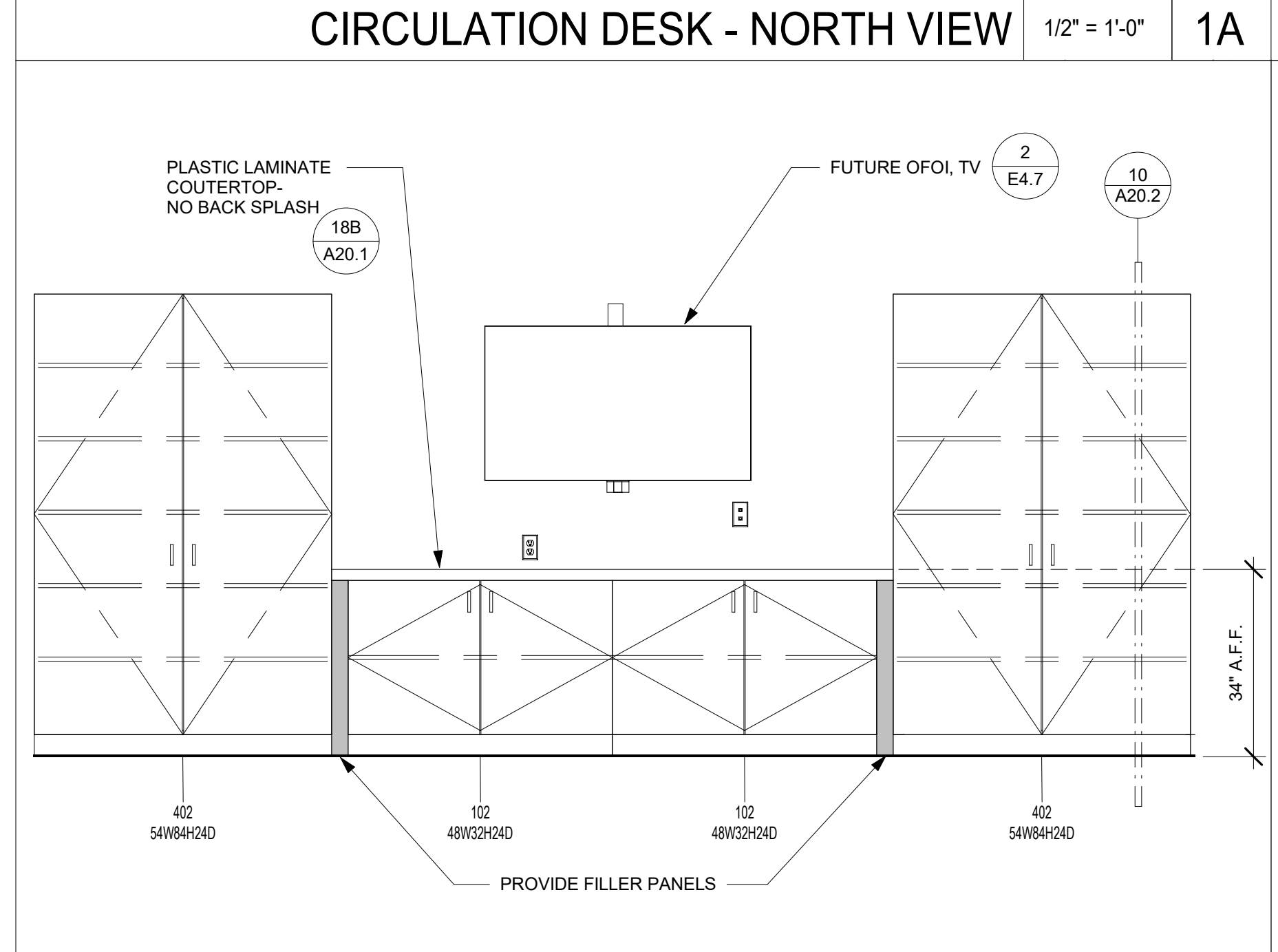
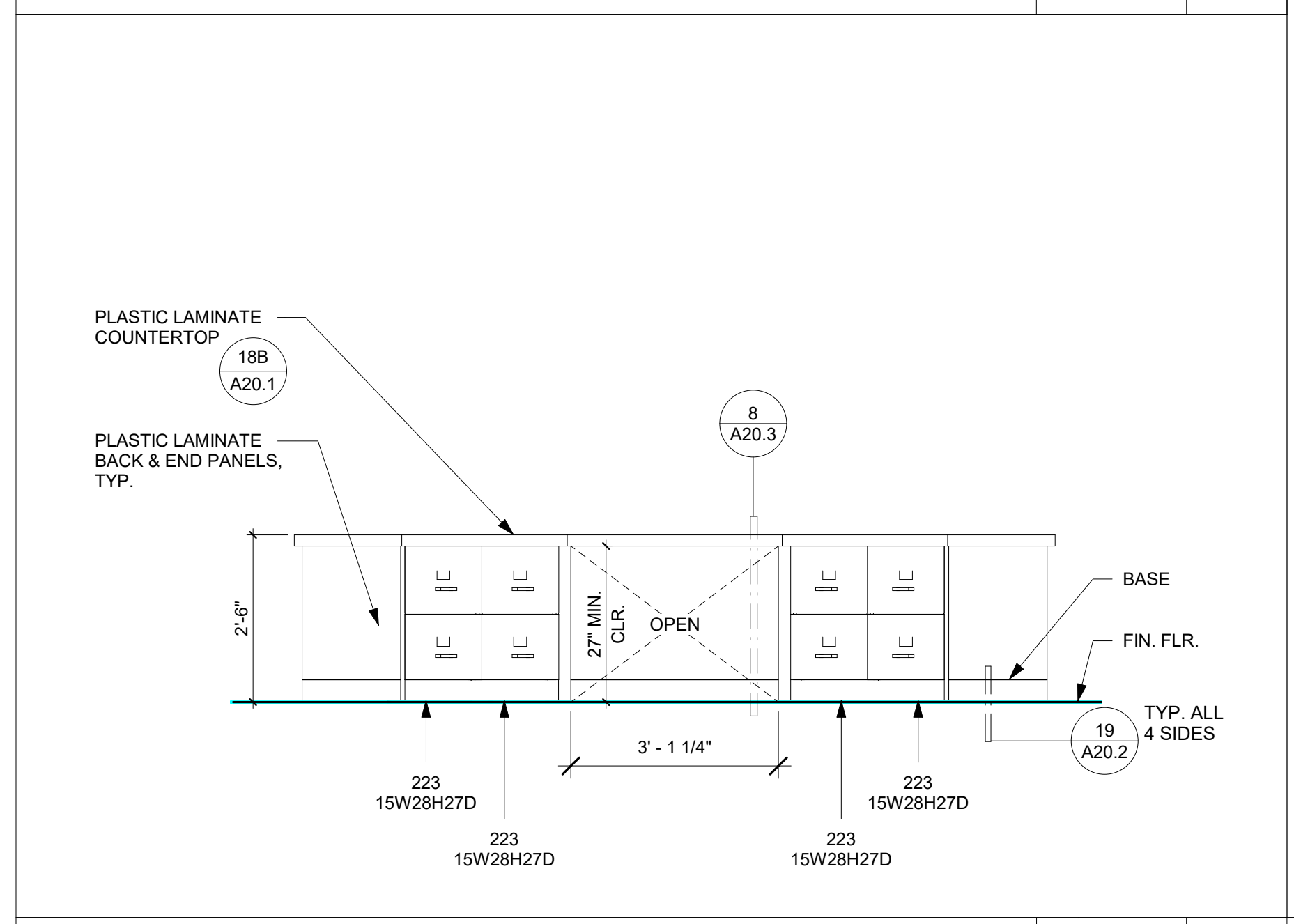
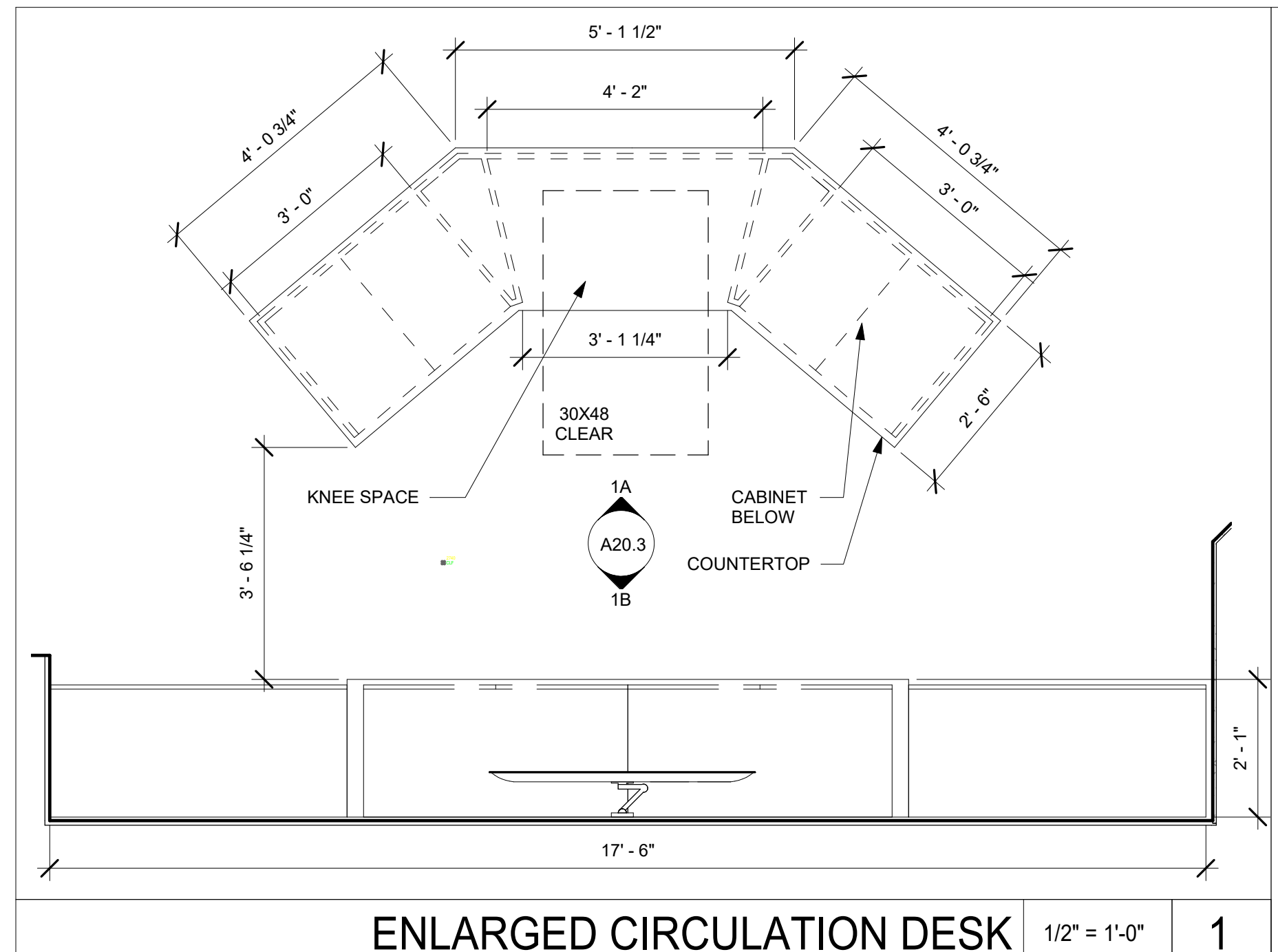
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INTERIOR DETAILS

Drawn: RI
 Checked: RDW
 Date: OCT. 14, 2019
 Job: SSD-PA-03

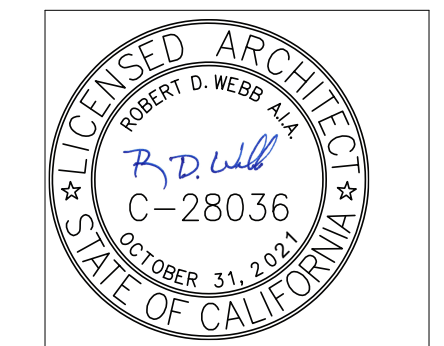


- SEAT KEYNOTES**
- S1 2X6 WALL PER STR. PLANS AND WALL LEGEND
 - S2 CONCRETE FLOOR SLAB
 - S3 2X4 FRAMING AT 16" O.C., TYP.
 - S4 3/4" PWD. PROVIDE 3/4" RADIUS FRONT CORNER EDGES TYP.
 - S5 2X4 LEDGER ANCHOR TO EA. WALL STUD W/ 1/2" X 4 1/2" L.B.
 - S6 SIMPSON U24 HANGERS EA. JST.
 - S7 HILTI 2 7/8" DS HD POWDER ACTUATED PINS @ 32" O.C.
 - S8 2X4 TREATED PLATES
 - S9 2X CRIPPLE LEDGER FROM PLATE TO FRAMING. ANCHOR TO VERT. MEMBER W/ 2 1/4"
 - S10 8D @ 16" O.C.
 - S11 2 - 16D @ EA. LAP
 - S12 CARPET
 - S13 RUBBER BASE
 - S14 2X BLOCKING
 - S15 8D EA. STUD
 - S16 2X4 PLATE
 - S17 BURKE-MERCER CARPET STAIR NOSING DOUBLE UNDERCUT #565 OR EQUAL
 - S18 BATT INSULATION WHERE APPLICABLE REFERENCE WALL LEGEND
 - S19 R=19 UNFACED INSULATION - TYP.

Revision	

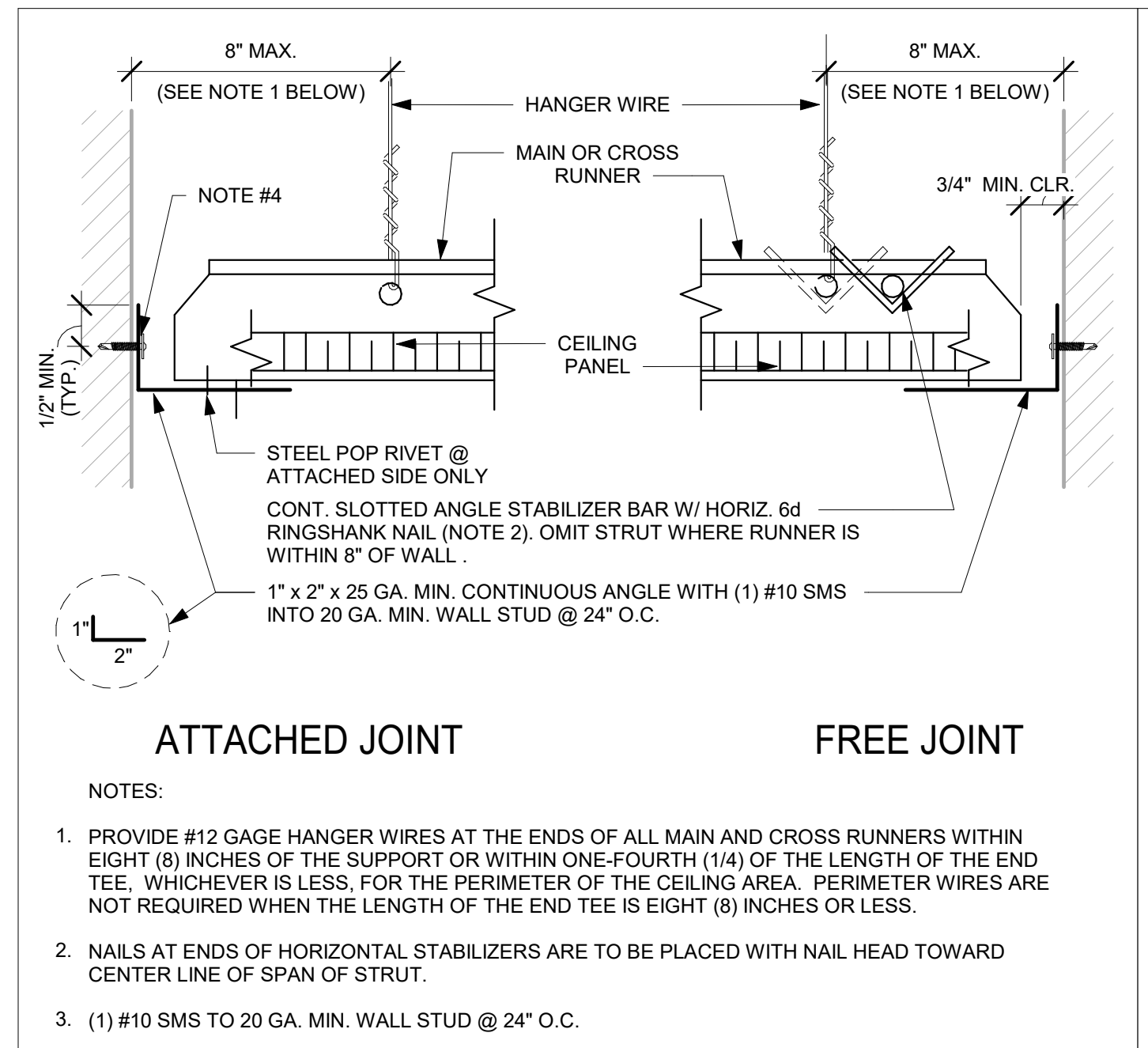
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616 Esplanade Blvd., Ste. 201, Esplanade, California 92024
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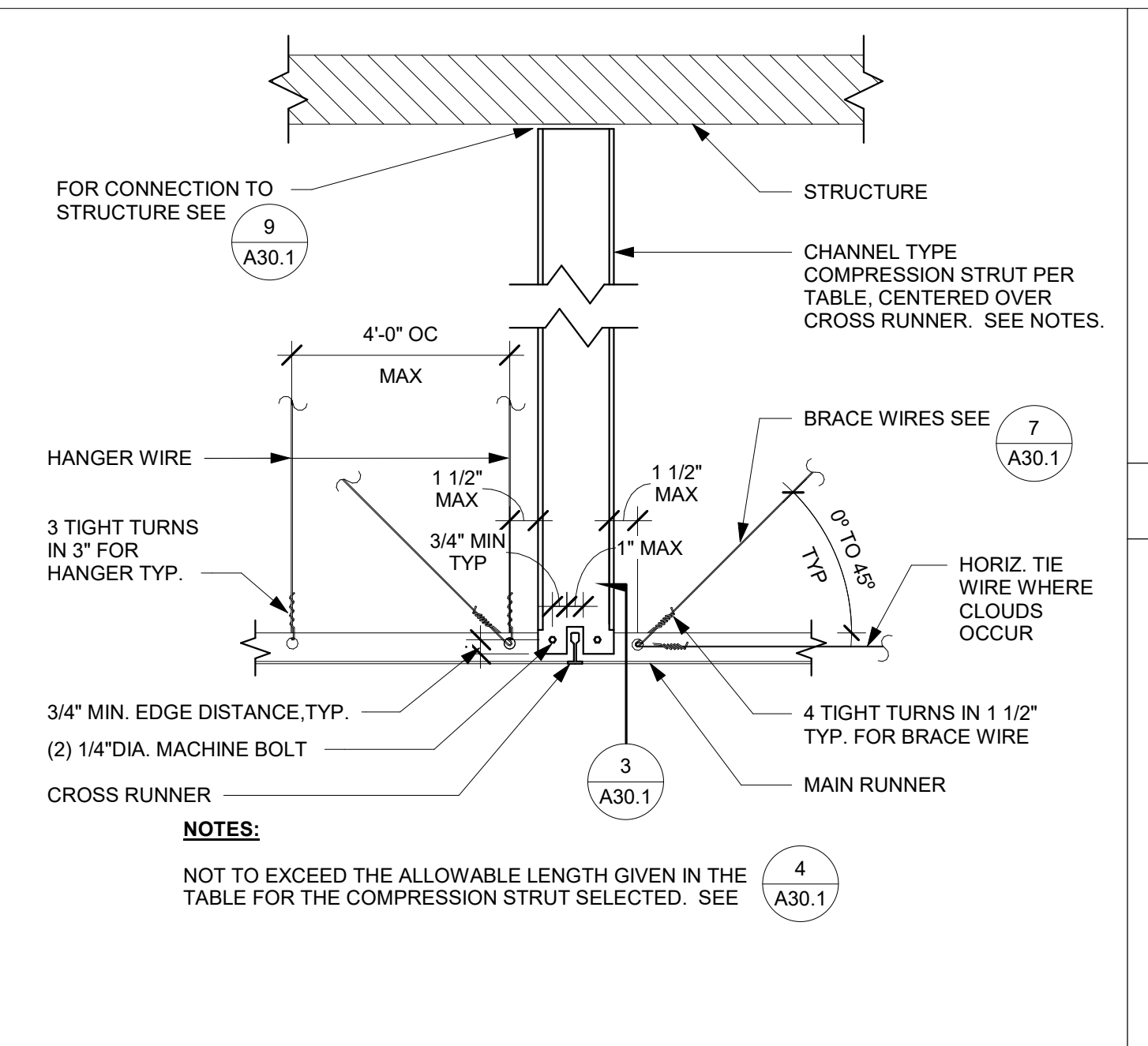


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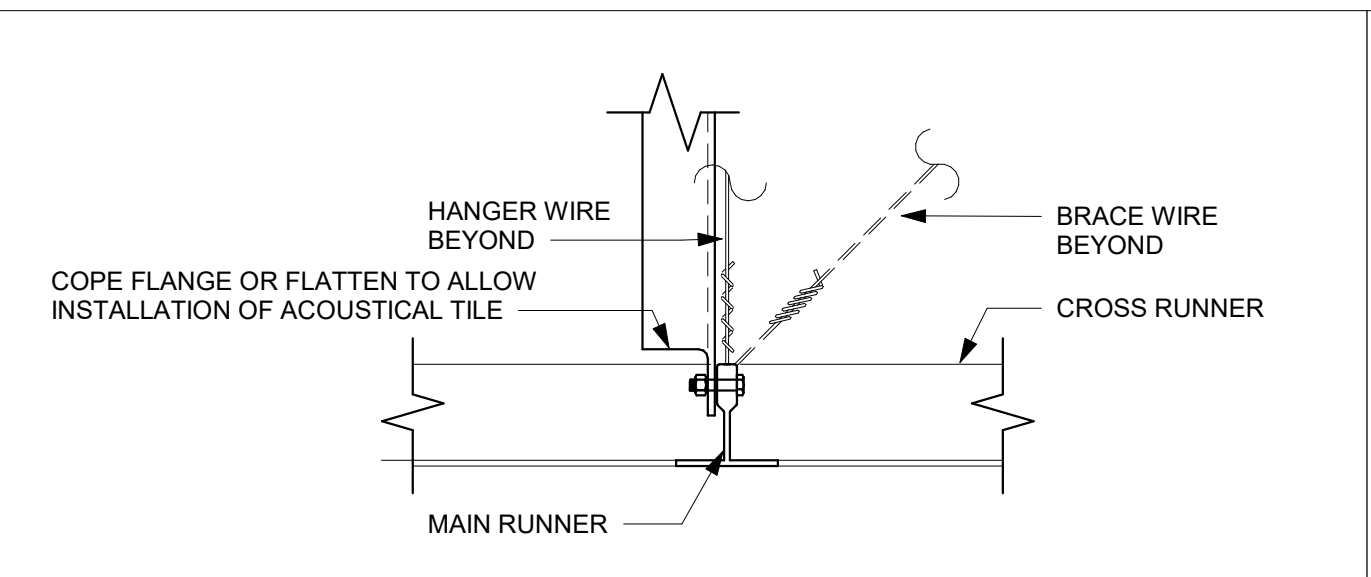
REFLECTED CEILING
PLAN - DETAILS
Drawn:
RI
Checked:
RDW
Date:
OCT. 14, 2019
Job:
SSD-PA-03
A30.1



CEILING PERIMETER 3" = 1'-0" 1

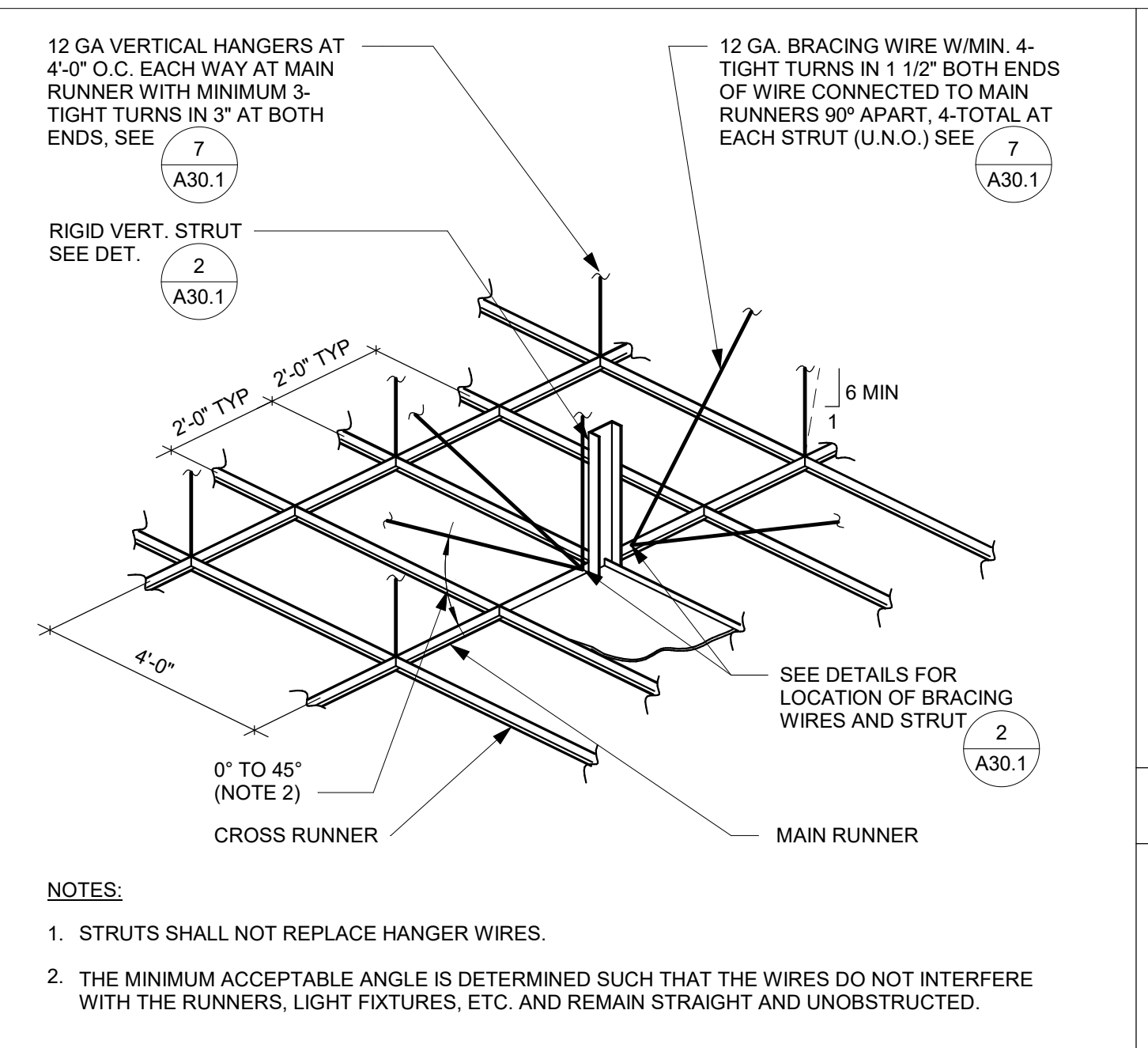


CHANNEL TYPE STRUT 1 1/2" = 1'-0" 2

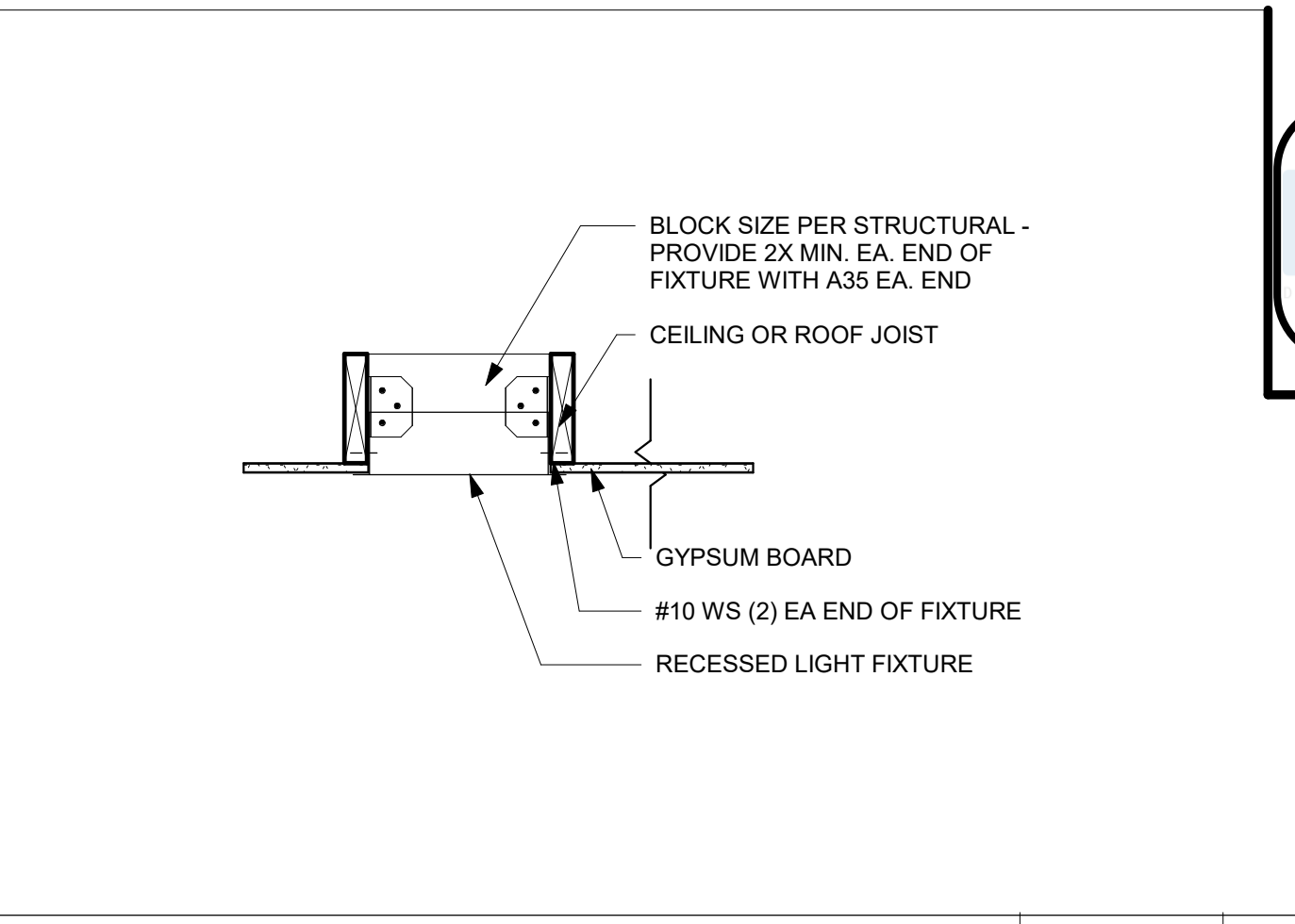


CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250S137-43	8'-10"
400S137-43	10'-10"

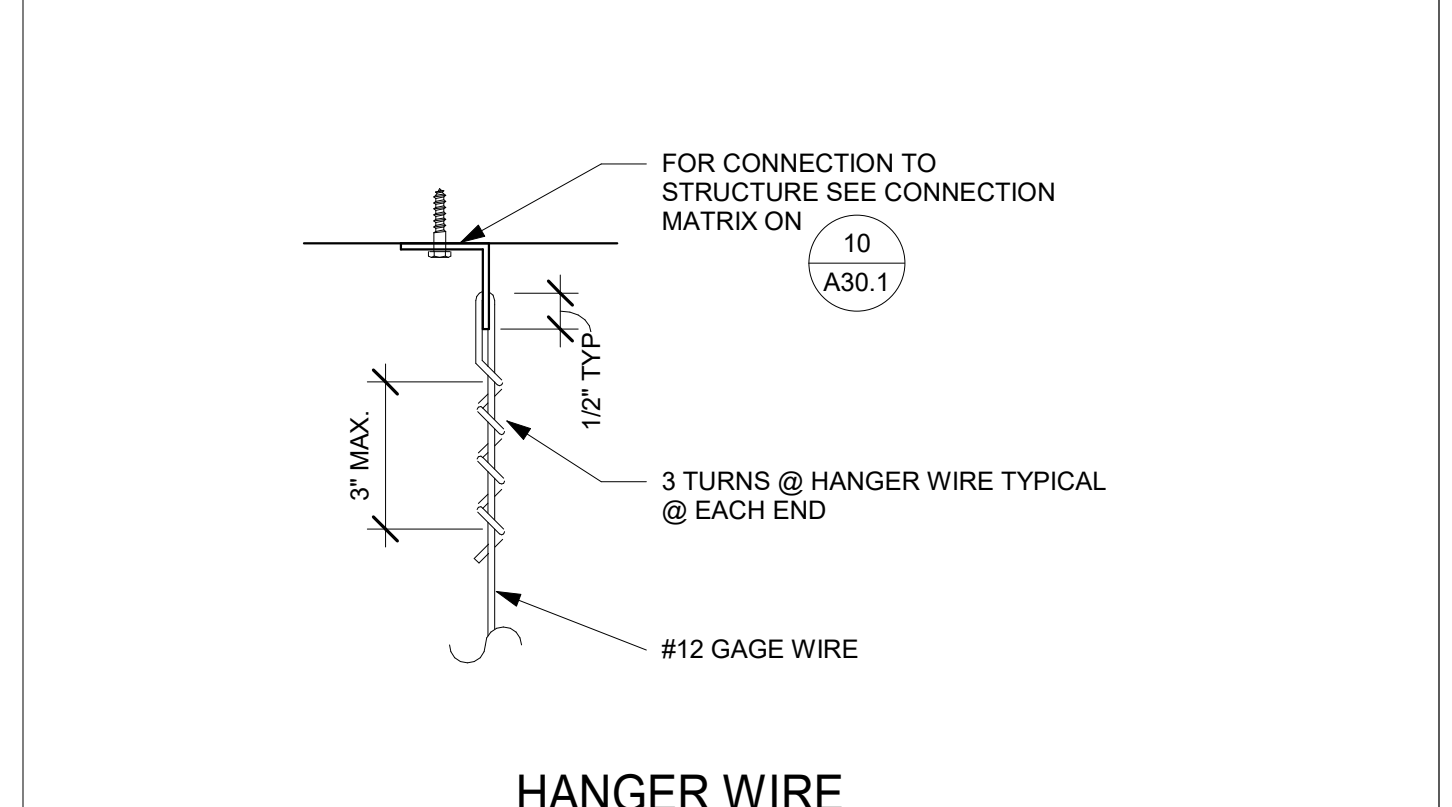
CHANNEL - COMPRESSION STRUT TABLE 3" = 1'-0" 4



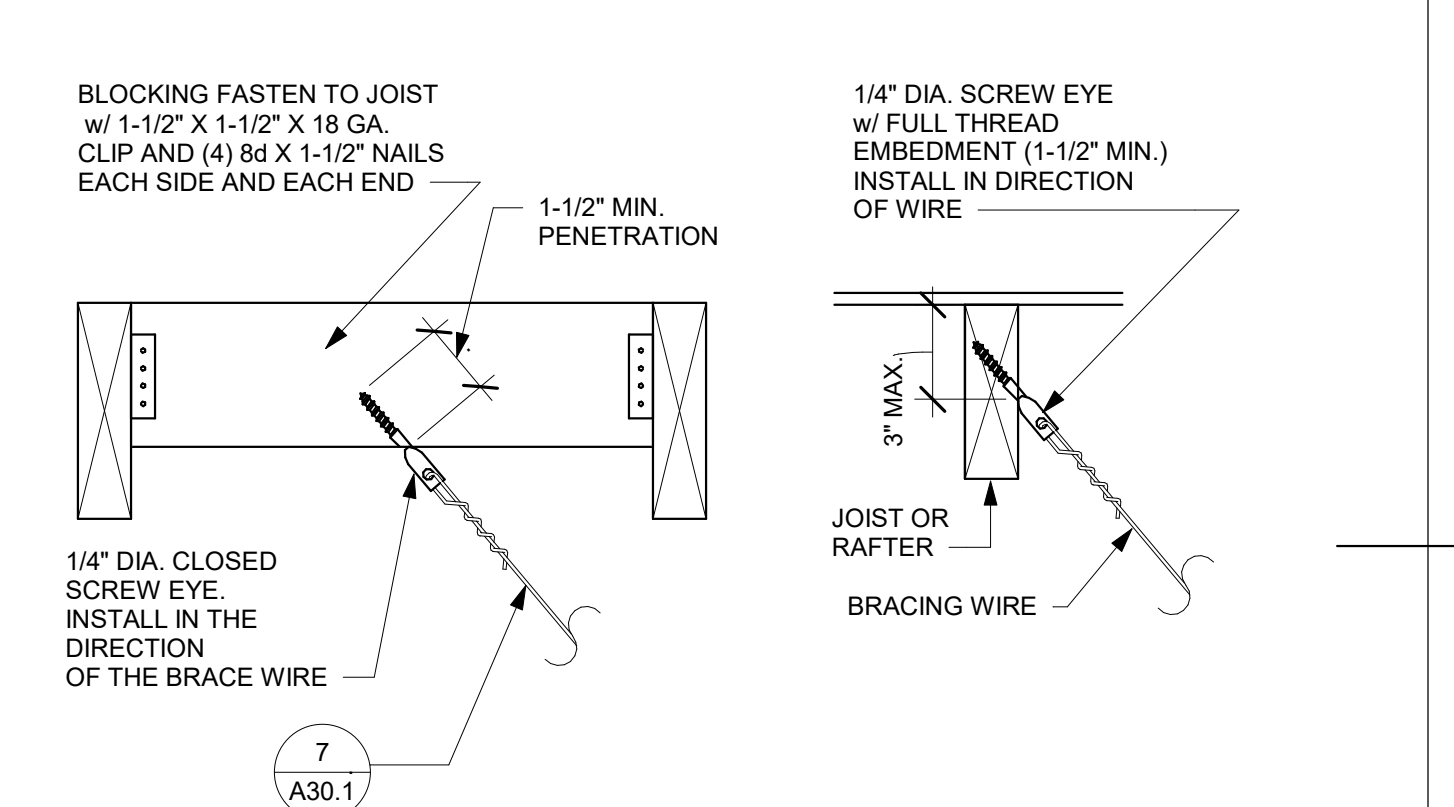
SUSPENSION AND BRACING ASSEMBLY 3" = 1'-0" 5



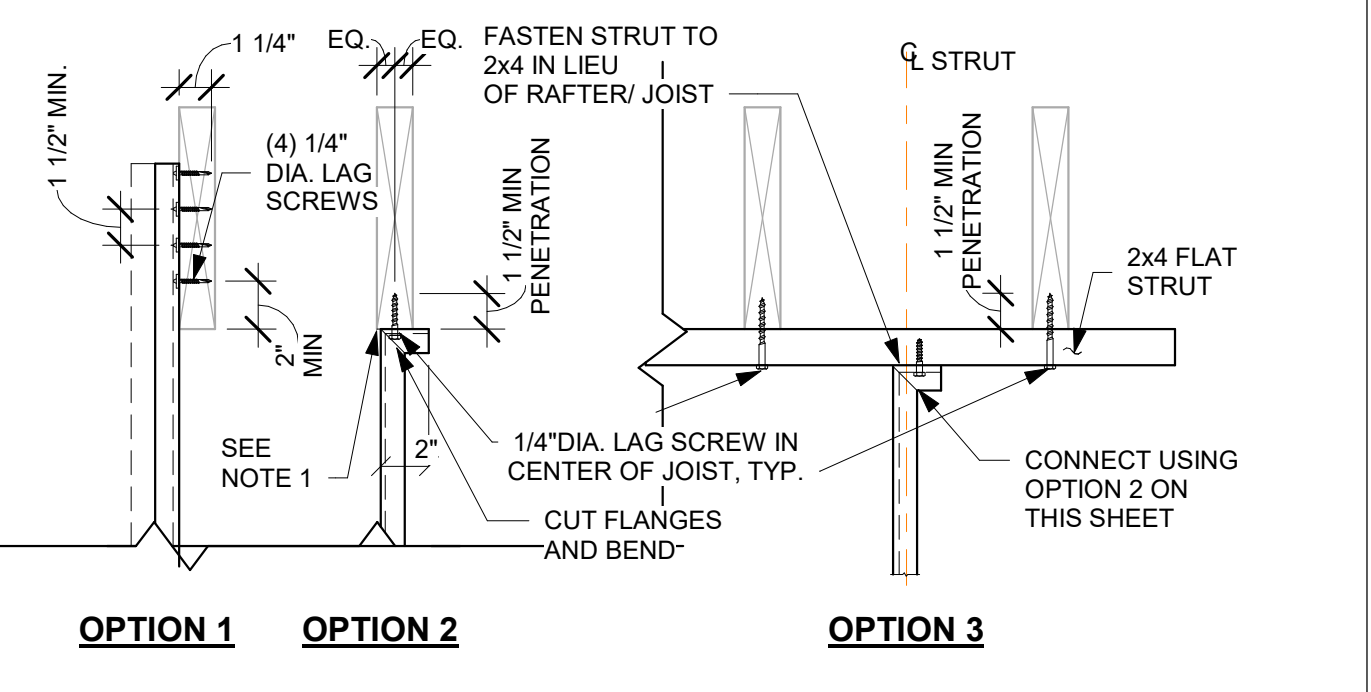
CEILING - RECESSED LIGHT FIXTURE 1" = 1'-0" 6



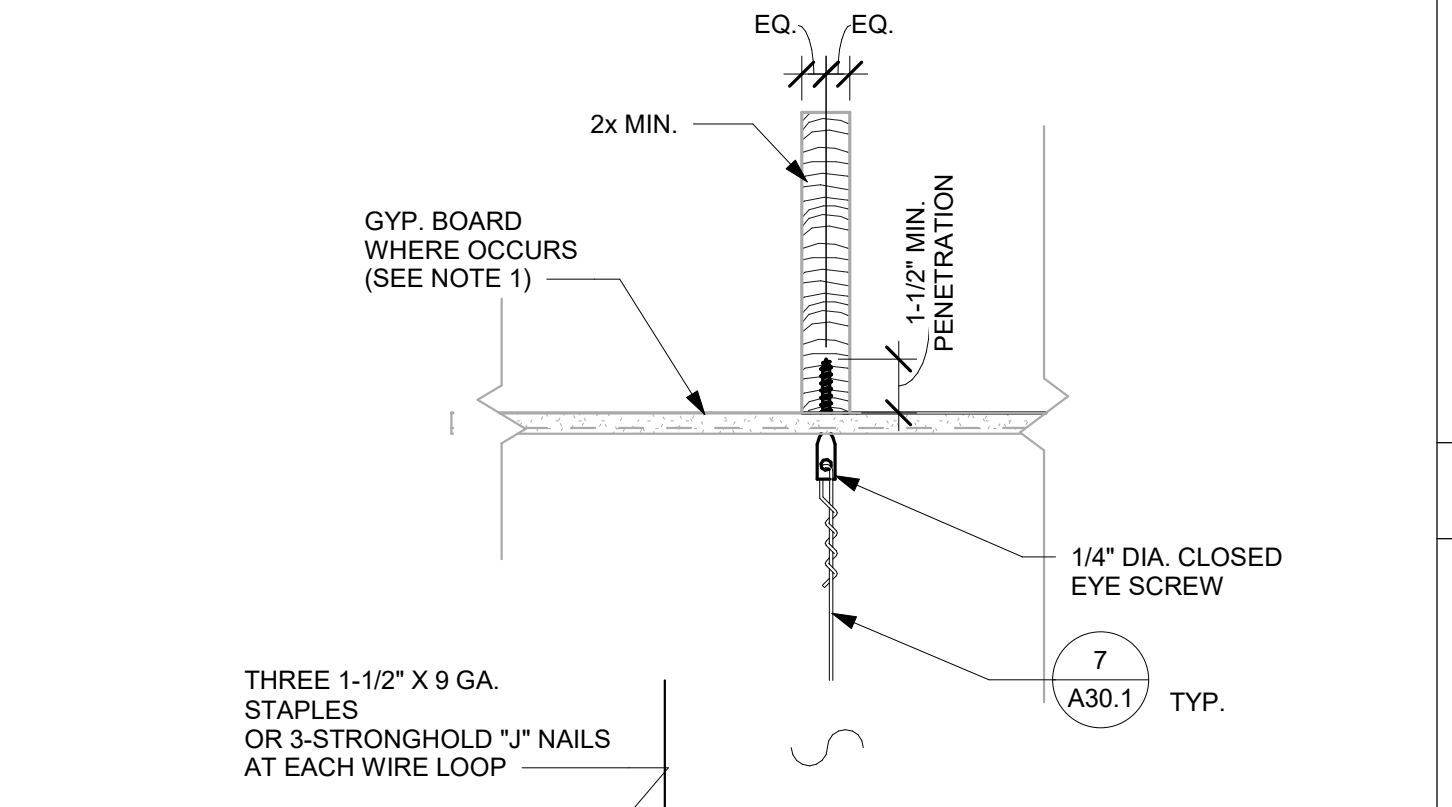
HANGER WIRE 8



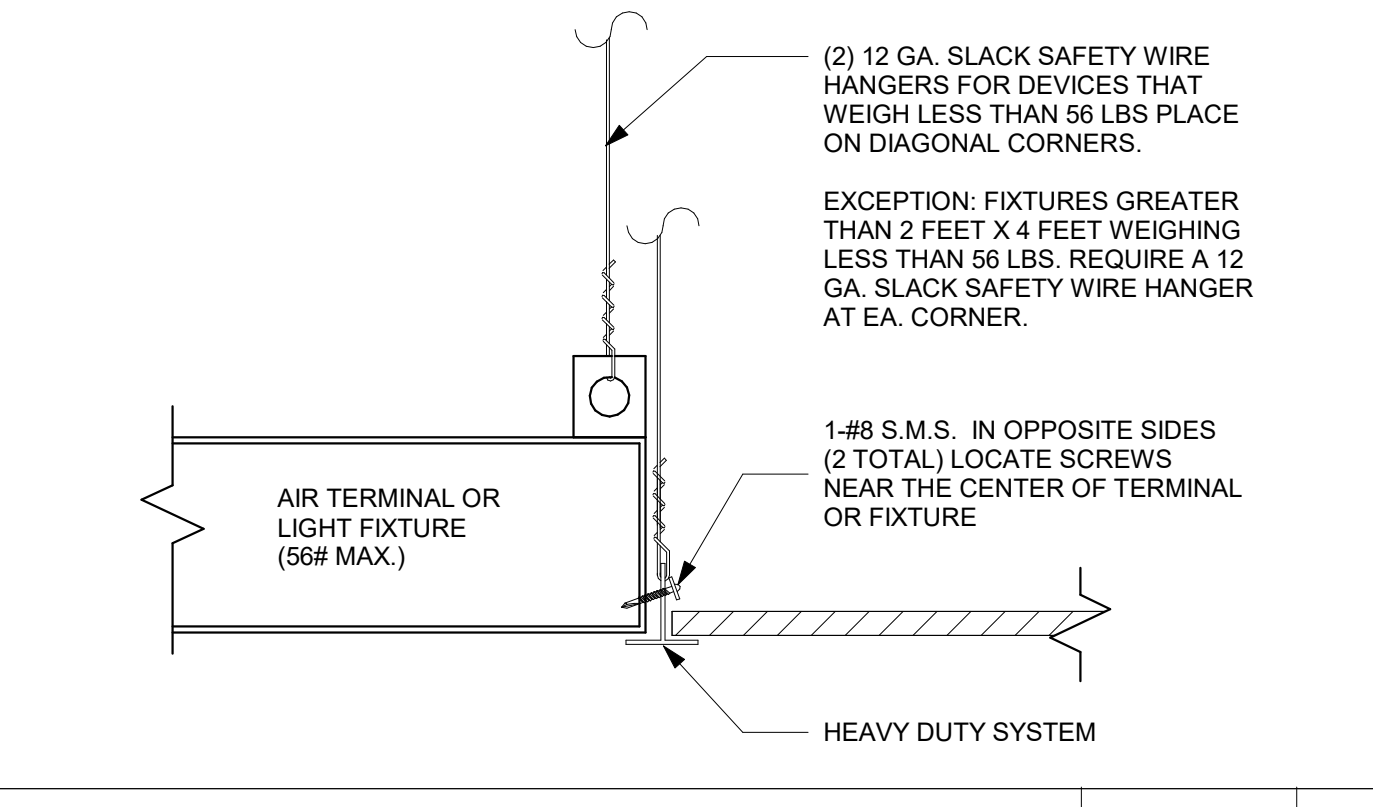
BRACING WIRE 7



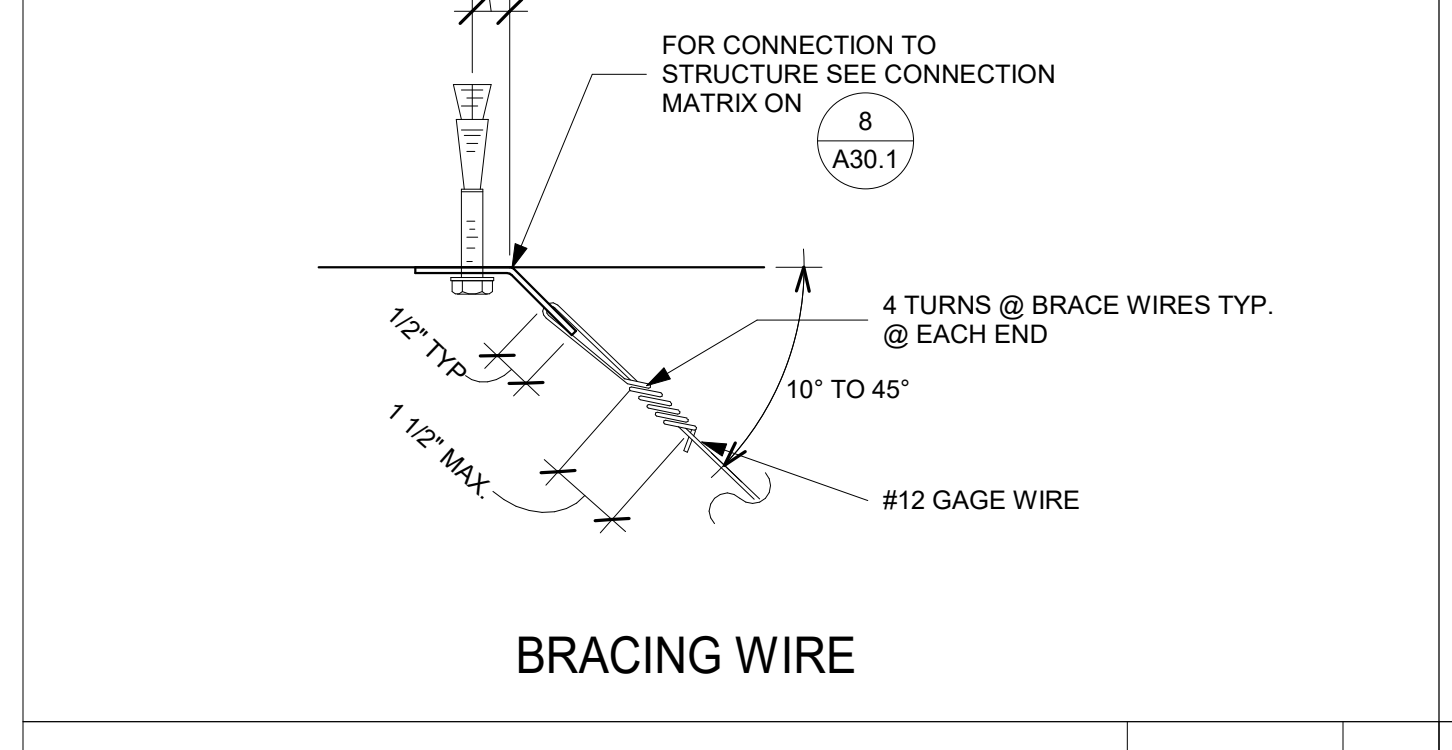
CHANNEL STRUT 9



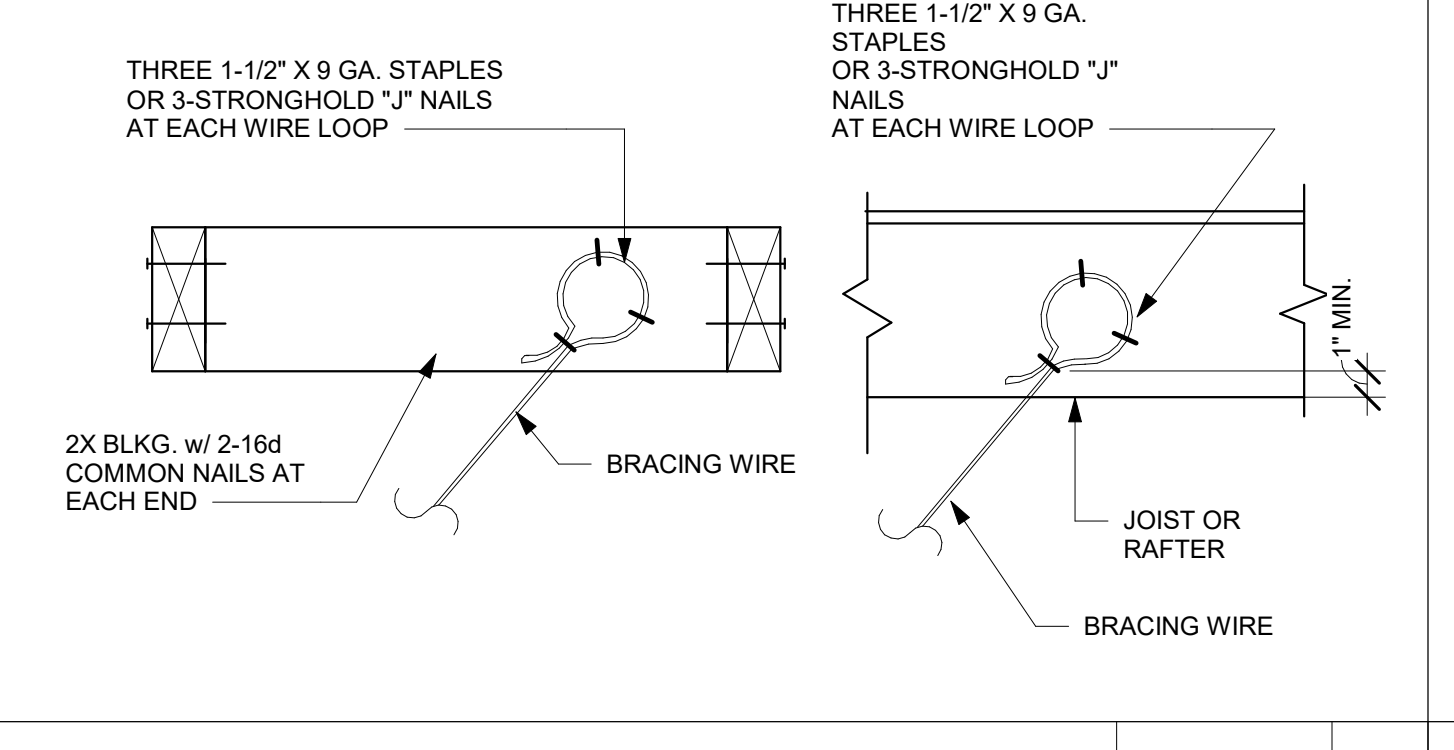
TUBE STRUT 10



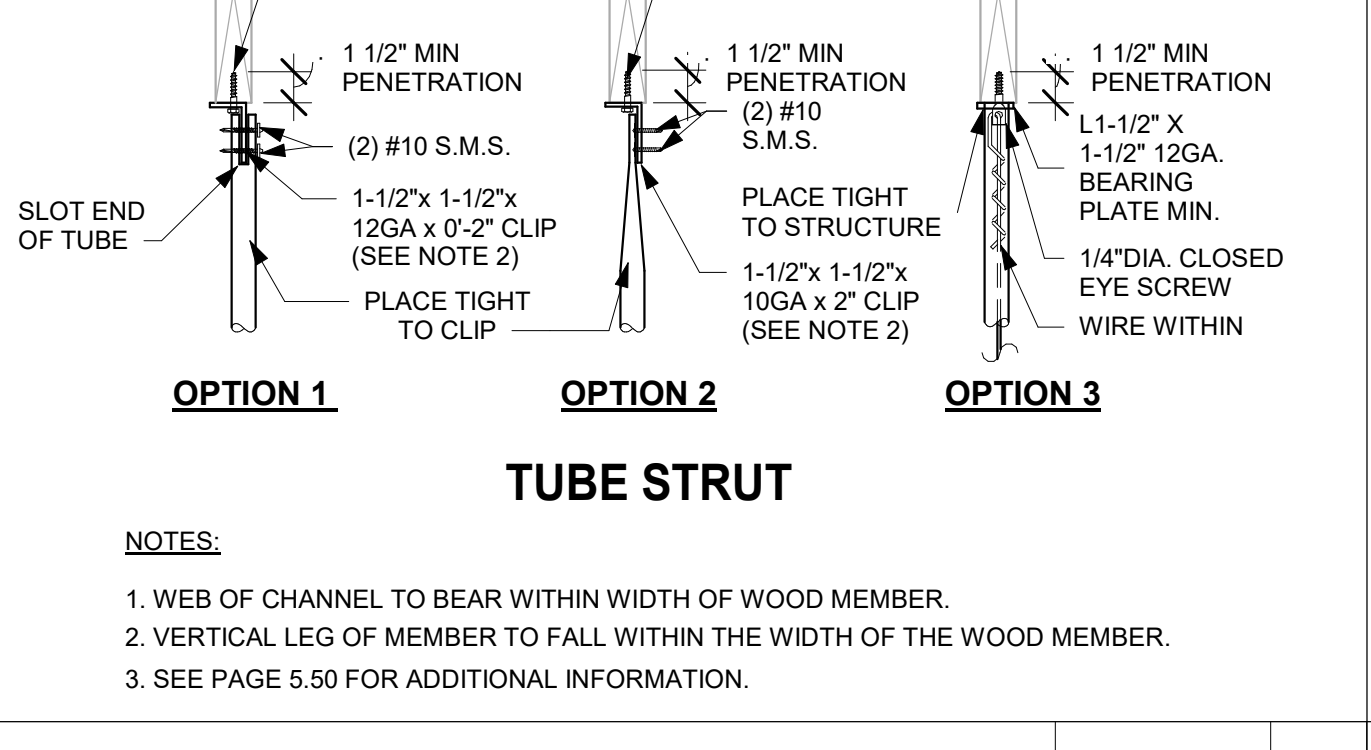
LIGHT FIXTURES/AIR TERMINAL SUPPORT 3" = 1'-0" 19A



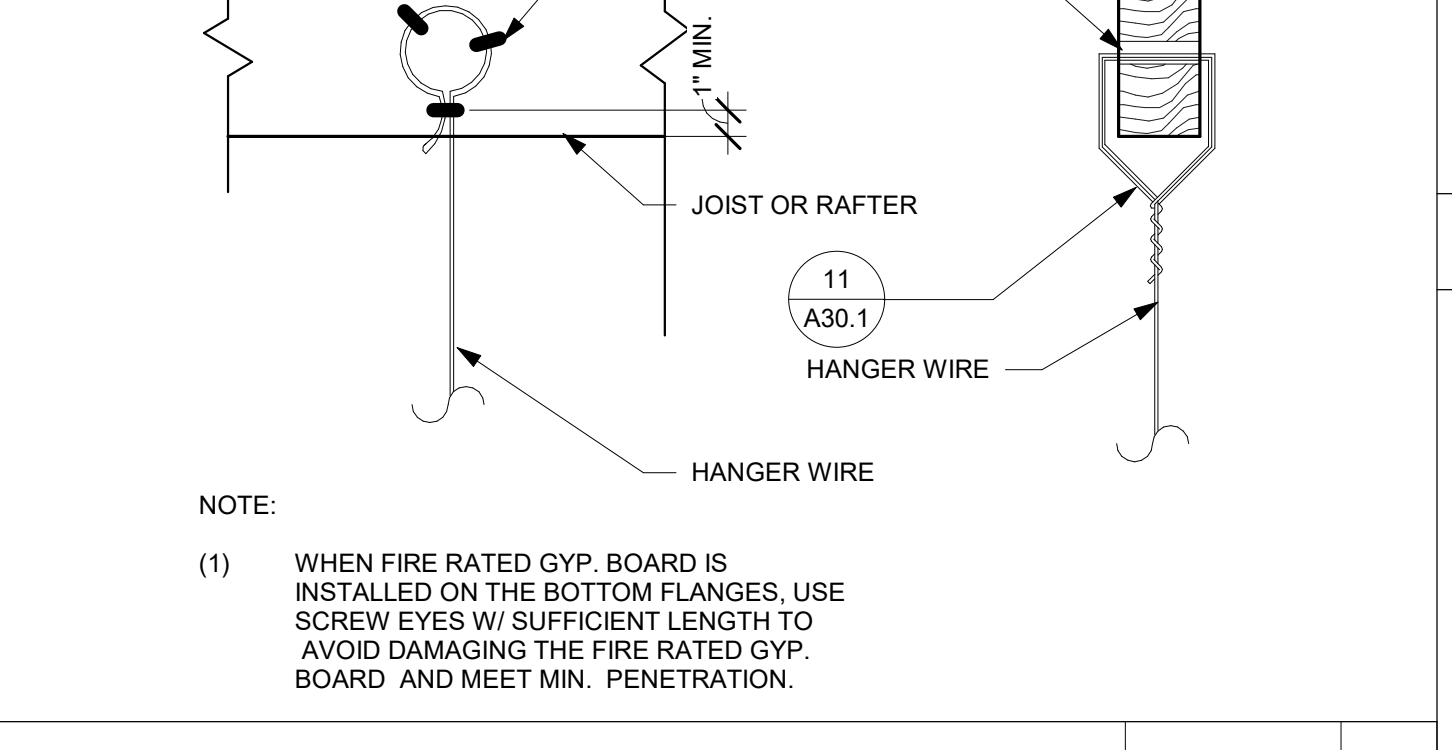
TYPICAL SADDLE TIE DETAIL NTS 11



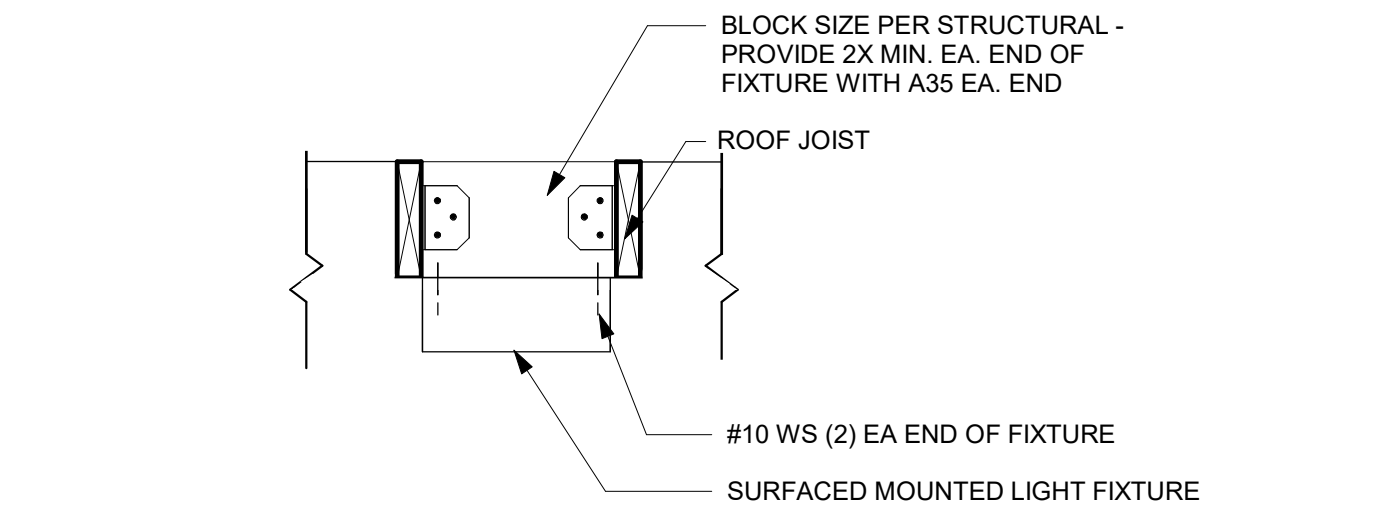
BRACING WIRE CONNECTION TO SAWN TIMBER 1 1/2" = 1'-0" 8



STRUT CONNECTION TO SAWN TIMBER W/O GYP. BOARD 1 1/2" = 1'-0" 9

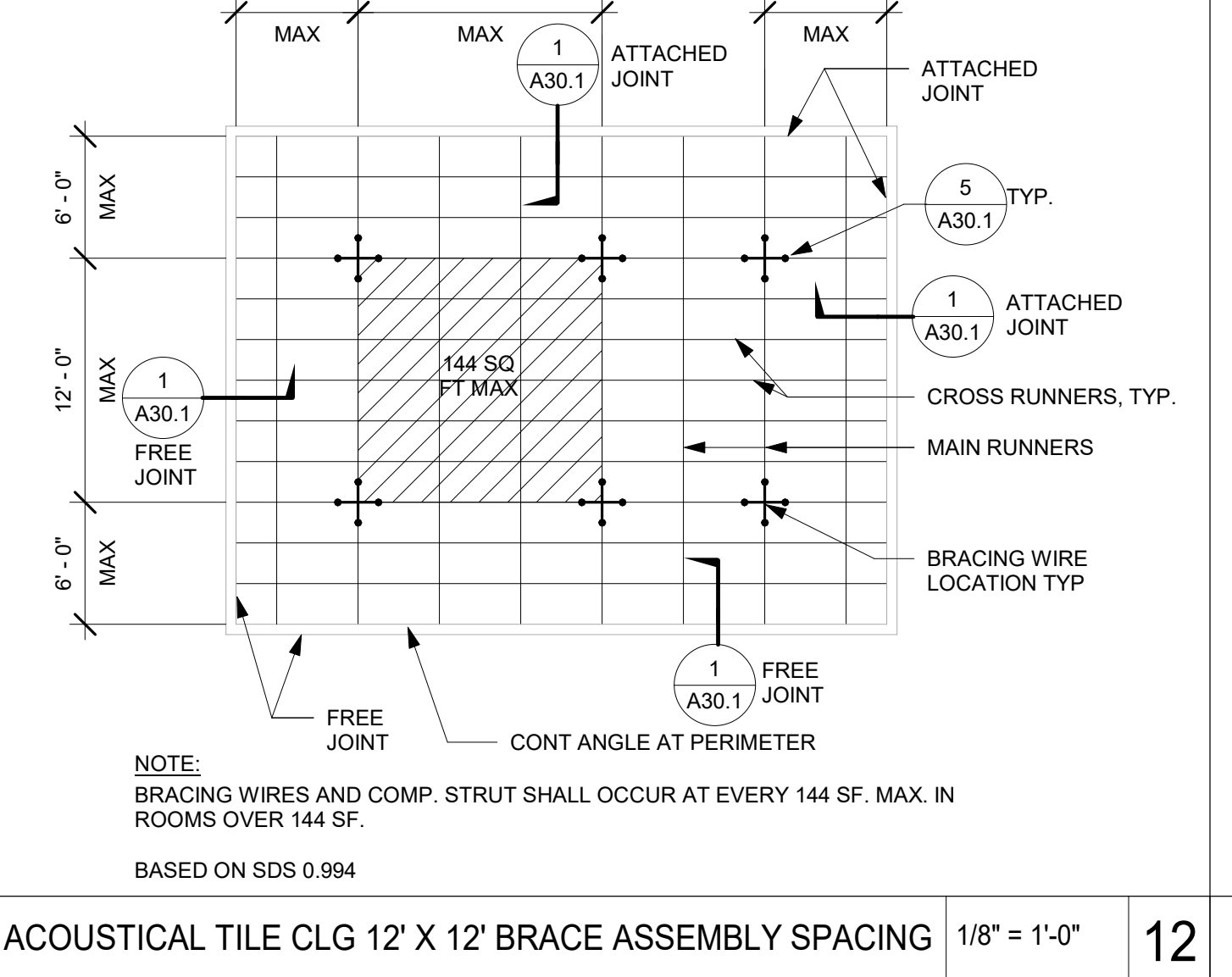


HANGER WIRE CONNECTION TO SAWN TIMBER 1 1/2" = 1'-0" 10

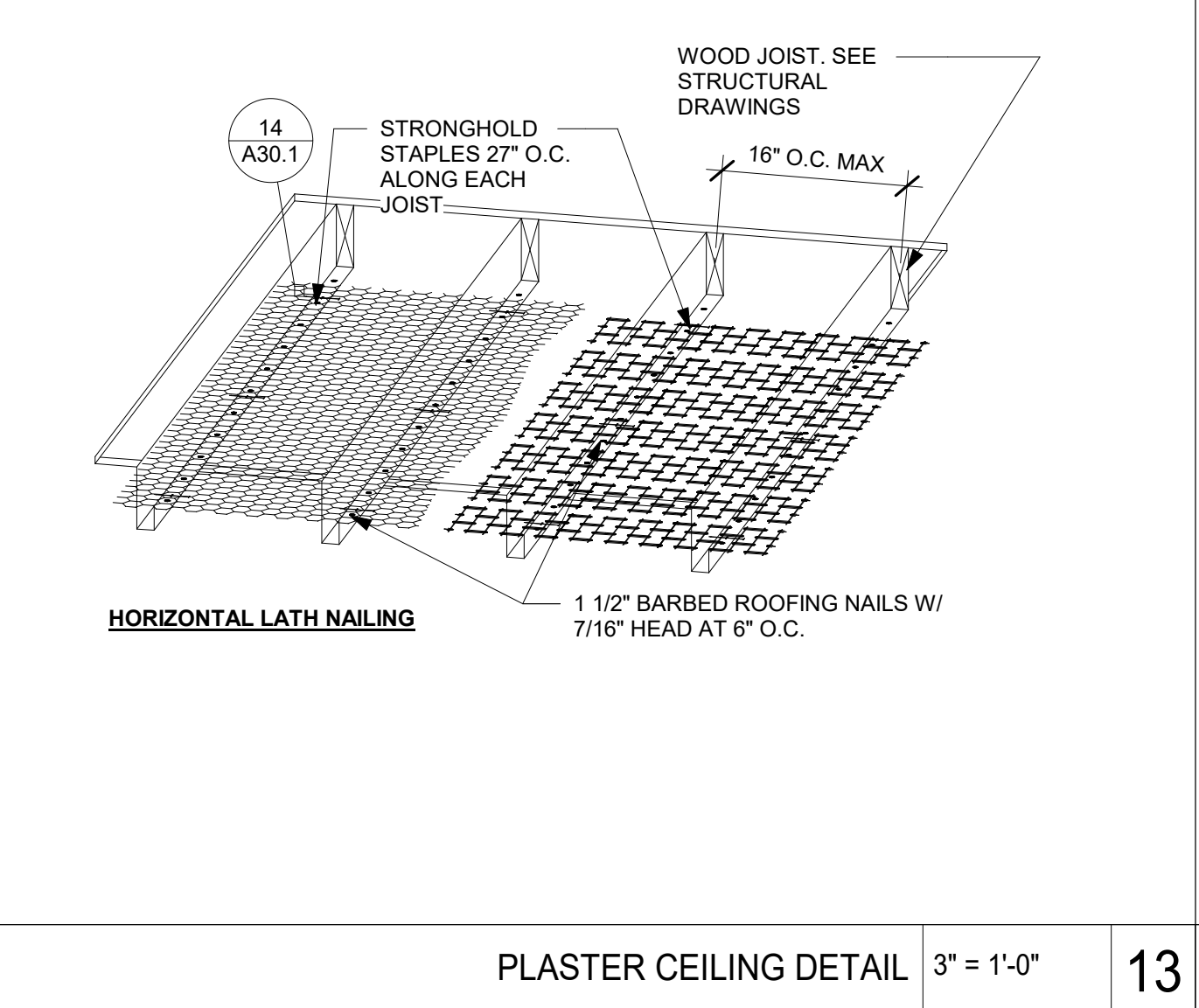


CEILING - SURFACE MOUNTED LIGHT 1" = 1'-0" 19B

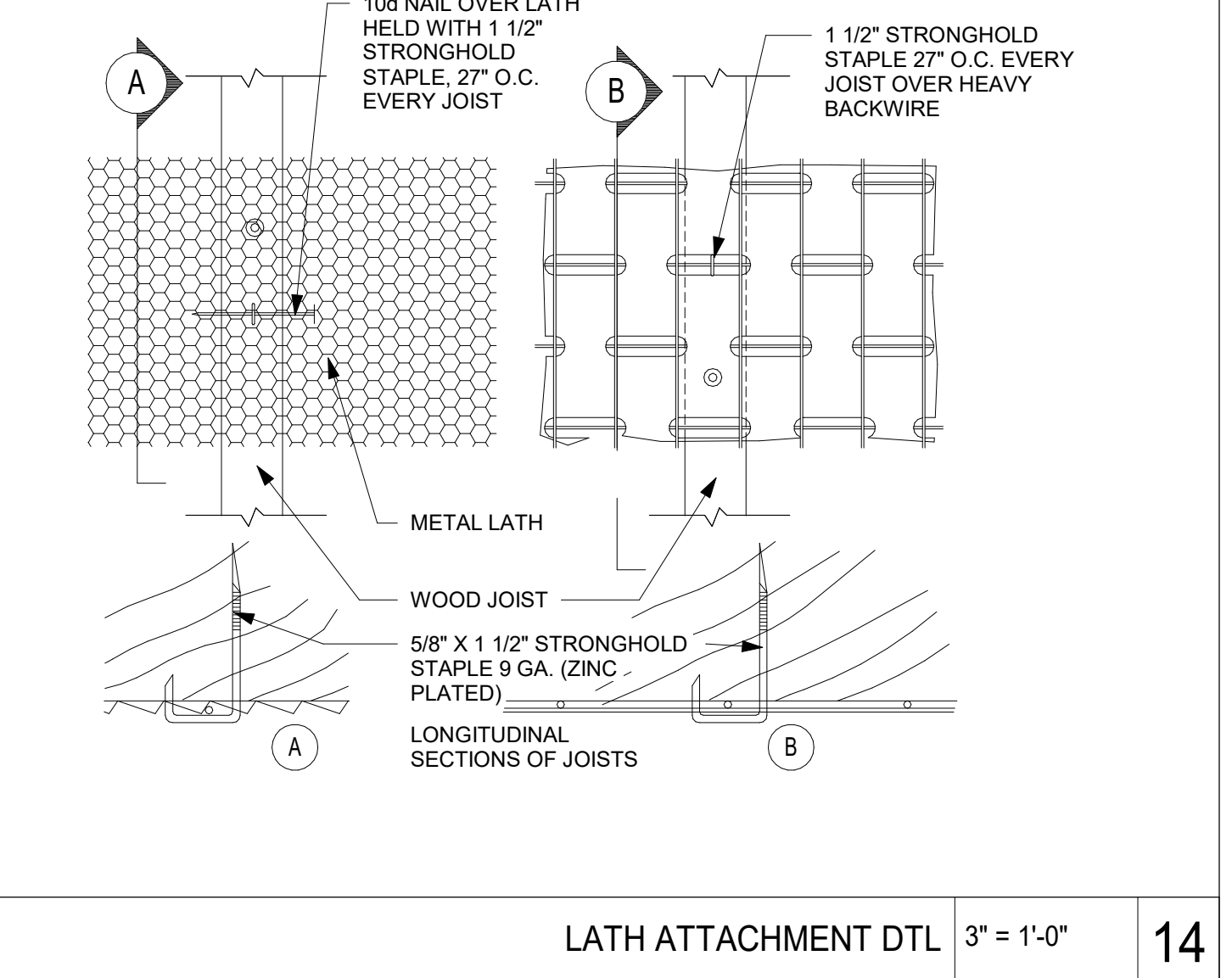
- CEILING SYSTEM GENERAL NOTES**
 - Ceiling system components shall comply with ASTM C635-07 and Section 5.1 of ASTM E880-10a.
 - The ceiling grid system must be rated heavy duty as defined by ASTM C635-08.
 - Ceiling systems - see specifications.
 - Seismic Wall Clip - see specifications.
 - Ceiling panels shall not support any light fixtures, air terminals or devices.
 - For ceiling installers utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide 3/4" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide 3/4" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip.
 - Splices will not be permitted in any hanger wires.
- MATERIALS**
 - Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641-09a. Wire shall be #12 gauge (0.108" diameter) with soft temper and minimum tensile strength = 70 ksi.
 - Galvanized sheet steel (including that used for metal stud and track compression strut/post) shall conform to ASTM A653-11, or other equivalent steel sheet listed in Section A2.1 of the North American Specification for the Design of Cold Formed Steel Structural Members 2007, including supplement 2 dated 2010 (ANSI S100-07/02-10). Material 43 mil (18 gauge) and lighter shall have a minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50 ksi.
 - Electrical metallic tube (EMT) shall be ANSI C80.3/JUL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi.
- ATTACHMENT OF HANGER AND BRACING WIRES:**
 - Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc.
 - Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to: piping, ductwork, conduit and equipment.
 - Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.
 - Slack safety wires shall be considered hanger wires for installation and testing requirements.
 - Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire. (e.g. bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.)
 - Provide trapeze or other supplemental support members at obstructions to typical hanger spacing. Provide additional hangers, struts or braces as required at all ceiling breaks, soffits, or discontinuous areas. Hanger wires that are more than 1 in 6 out of plumb shall have counter - sloping wires.
- FASTENERS AND WELDING**
 - Sheet metal screws shall comply with ASTM C1513-10, ASME B18.6.4-89 (R2005). Penetration of screws through joined material shall not be less than three exposed threads.
 - Expansion anchor shall be per specification.
 - Power-actuated fasteners shall be per specification.
 - If not otherwise specified in the evaluation report, power-actuated fasteners install in steel shall be installed so the entire pointed end of the fastener is driven through the steel member.
 - Power-actuated fasteners in concrete are not permitted for bracing wire.
 - Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post - installed anchor.
 - Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.
- TESTING:**
 - All field testing must be done in the presence of the project inspector.
 - Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power actuated fasteners in concrete shall be field tested for 200 lbs. in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1913A.7.
 - Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1913A.7.
- LIGHT FIXTURES**
 - All light fixtures shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the fixture. A minimum of two screws or approved fasteners are required at each light fixture, per ASTM E880, Section 5.3.1.
 - Surface-mounted light fixtures shall be attached to the main runner with at least two positive clamping eyes. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches do not comply. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when light fixtures are eight (8) feet or longer or exceed 56 lb. Maximum spacing between supports shall not exceed eight (8) feet.
 - Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gauge slack safety wire connected from the fixture housing to the structure above.
 - Light fixtures weighing greater than 10 lb. but less than or equal to 56 lb. may be supported directly on the ceiling runners, but they shall have a minimum of two (2) #12 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.
 - Light fixtures greater than two by four feet weighing less than 56 lb. shall have a 12 gauge slack safety wire at each corner.
 - All light fixtures weighing greater than 56 lb. shall be independently supported by not less than four (4) #12 gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four (4) #12 gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four (4) times the weight of the fixture.
- SERVICES WITHIN THE CEILING**
 - All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
 - Ceiling-mounted air terminal or other services weighing less than or equal to 20 lb. shall have one (1) #12 gauge slack safety wire attached from the terminal or service to the structure above.
 - Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 lb. but less than or equal to 56 lb. shall have two (2) #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
 - Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 lb. shall be supported directly from the structure above by not less than four (4) #12 gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.
- OTHER DEVICES WITHIN THE CEILING**
 - All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 lb. shall have a #12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 lb. shall be supported independently from the structure above.



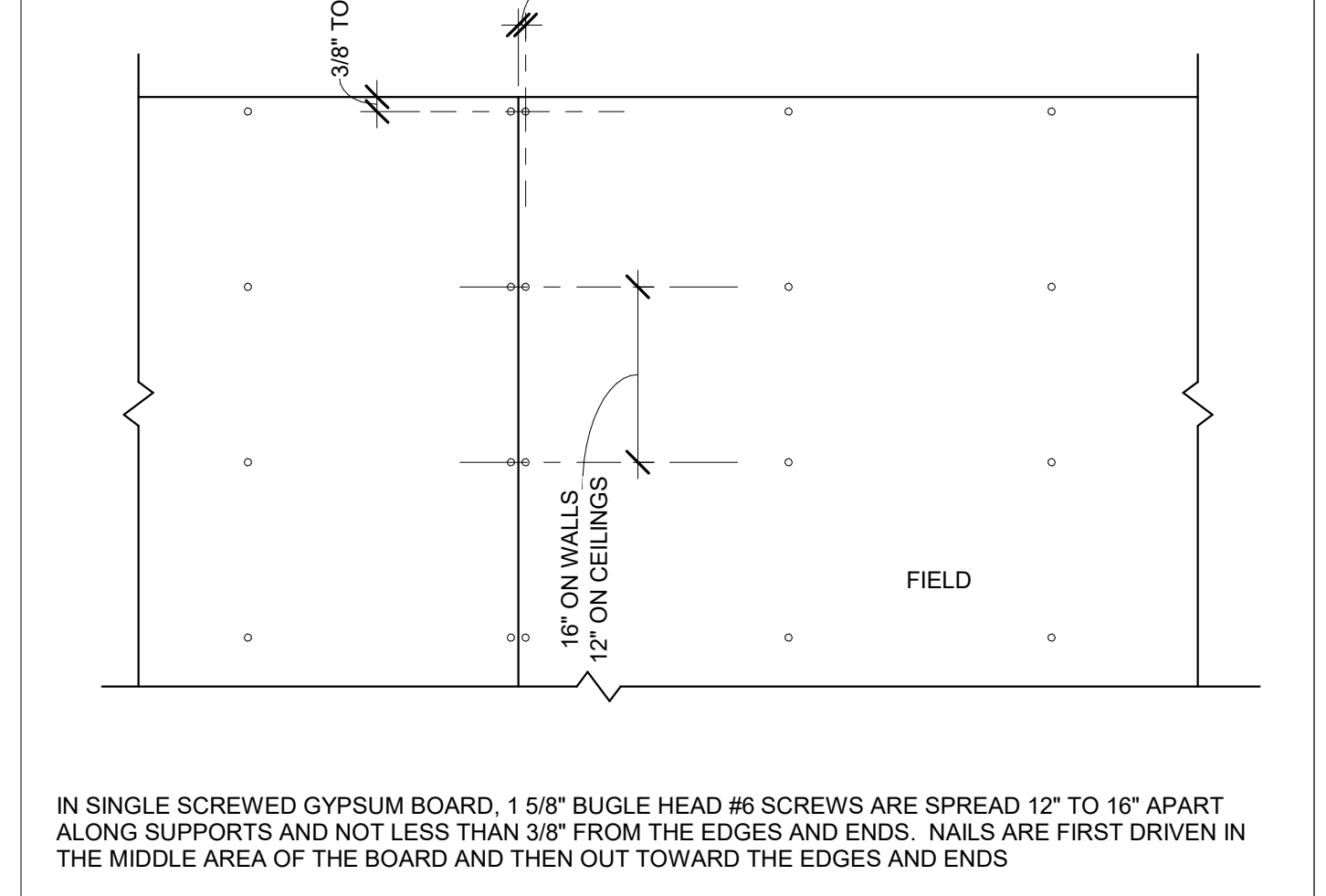
ACOUSTICAL TILE CLG 12" X 12" BRACE ASSEMBLY SPACING 1/8" = 1'-0" 12



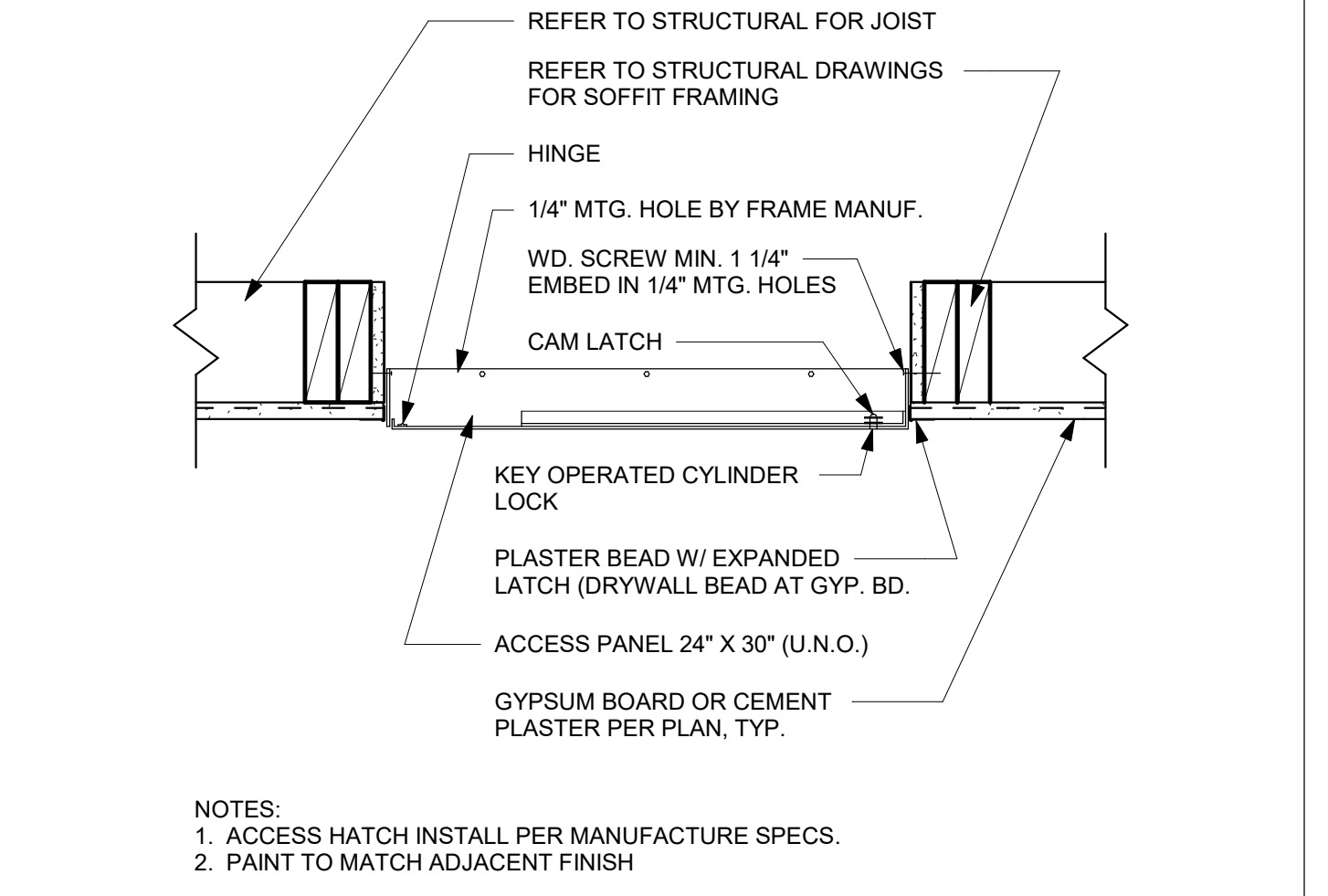
PLASTER CEILING DETAIL 3" = 1'-0" 13



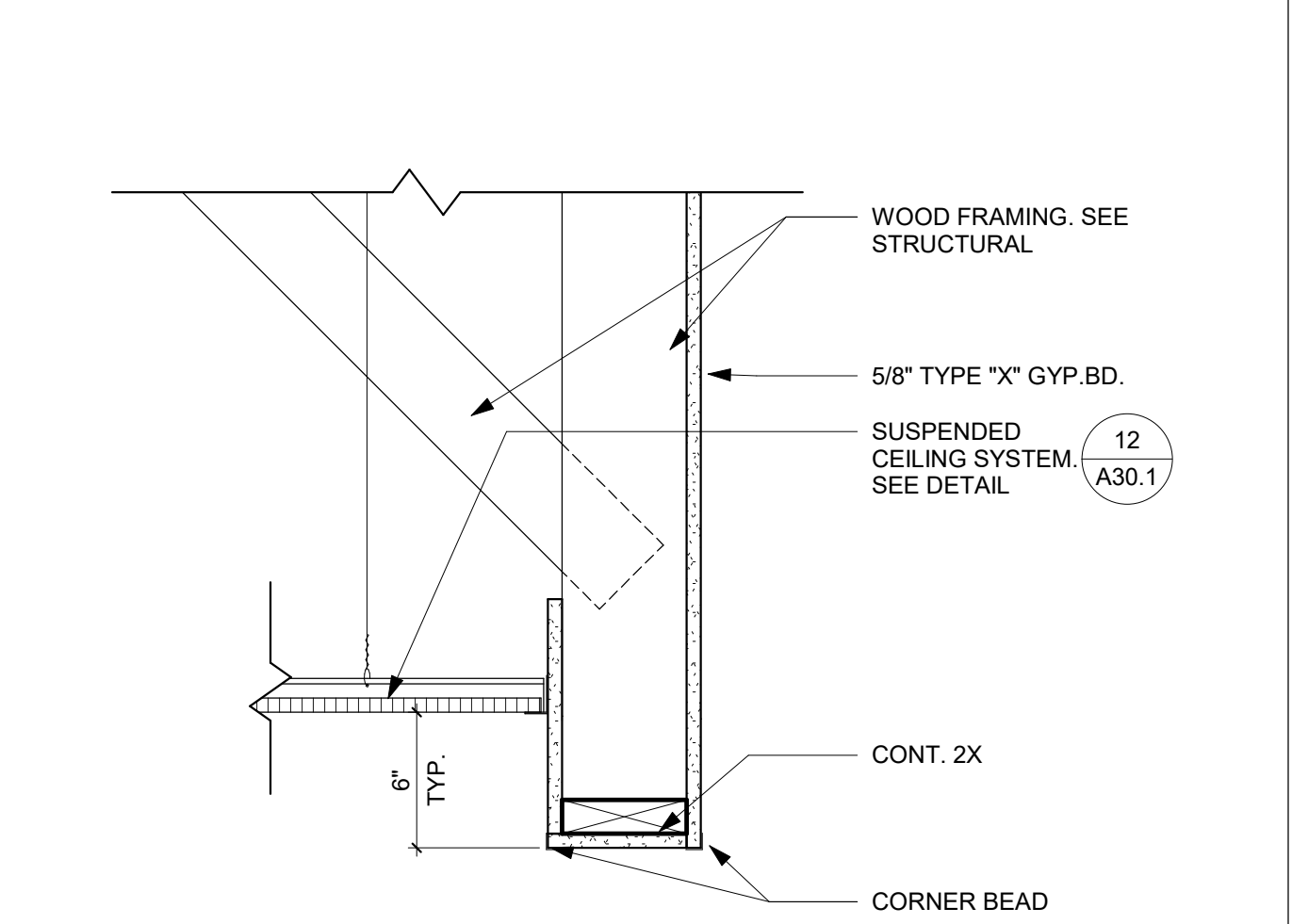
LATH ATTACHMENT DTL 3" = 1'-0" 14



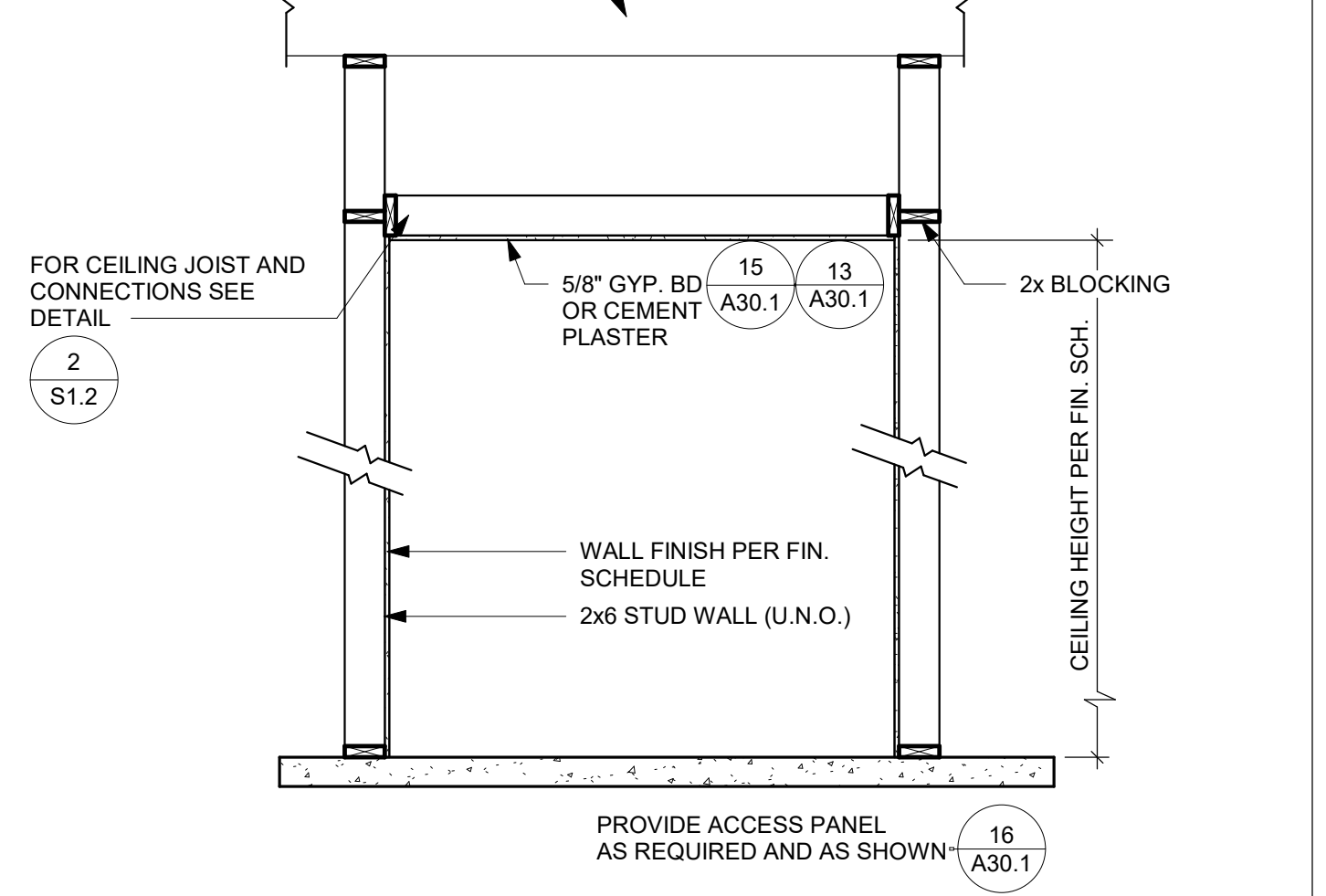
CEILINGS - GYPSUM BOARD NAILING SCHEDULE 1" = 1'-0" 15



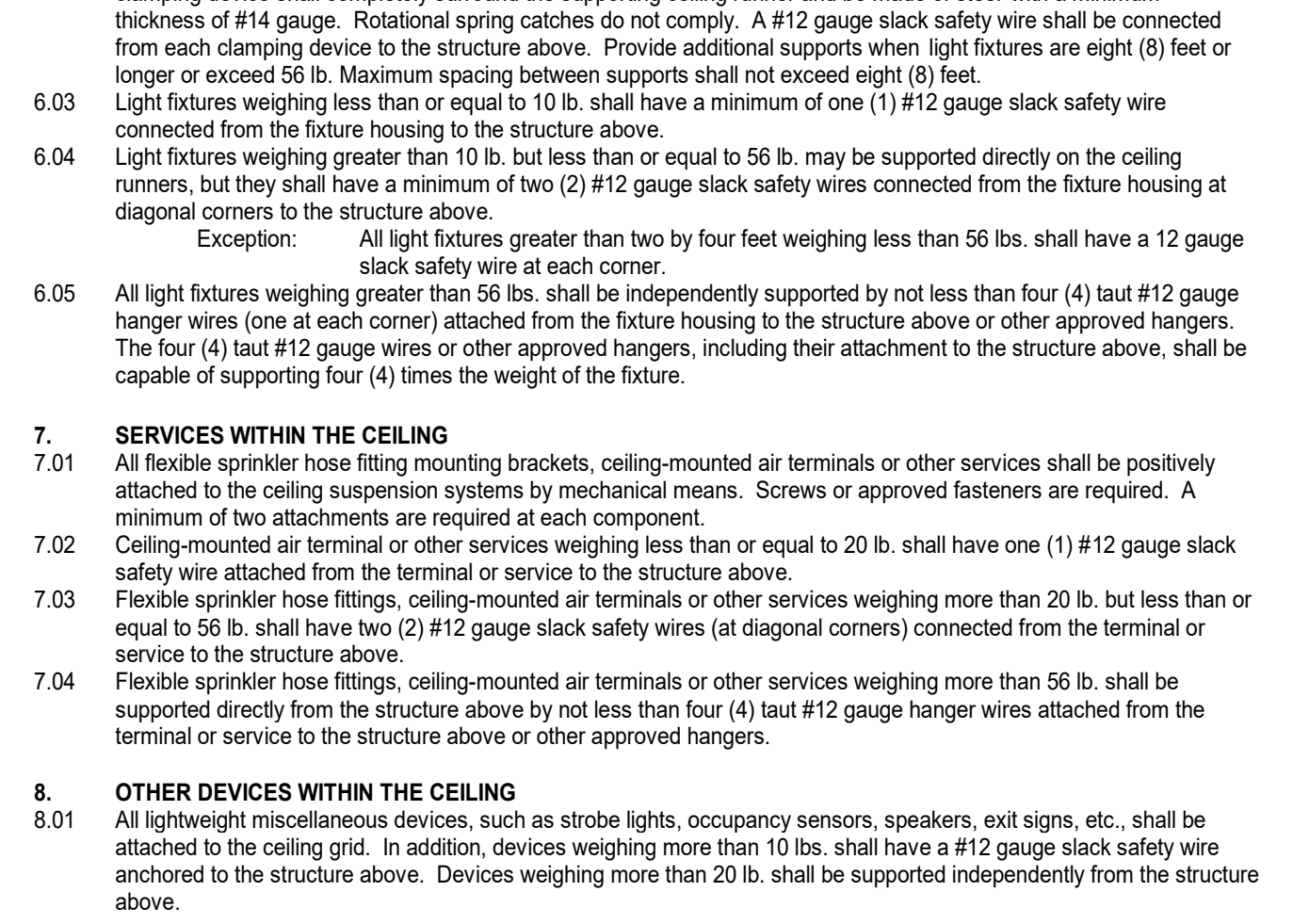
ACCESS PANEL DETAIL 1 1/2" = 1'-0" 16



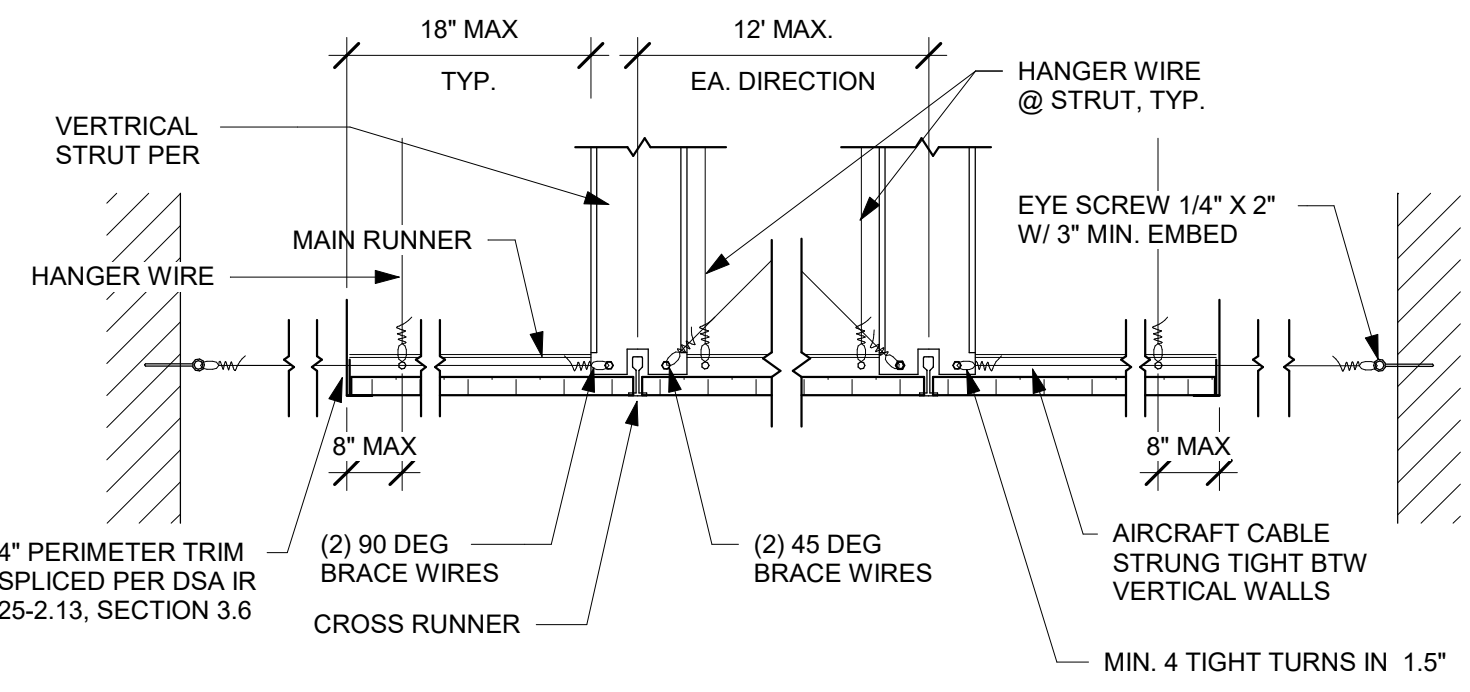
GYP.BD. SUSPENDED CEILING 1 1/2" = 1'-0" 17



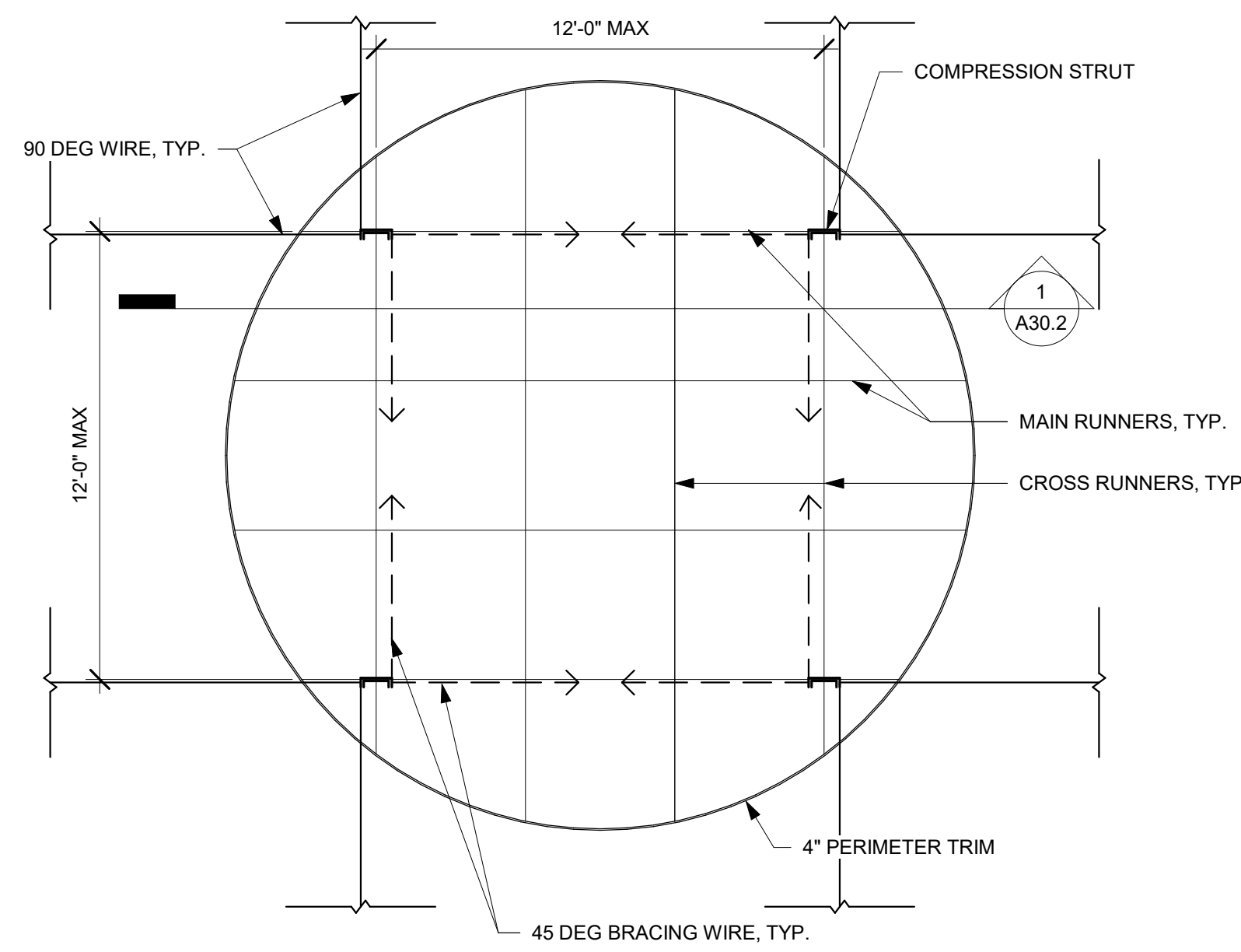
GYP BD OR PLASTER CLG 1/2" = 1'-0" 18



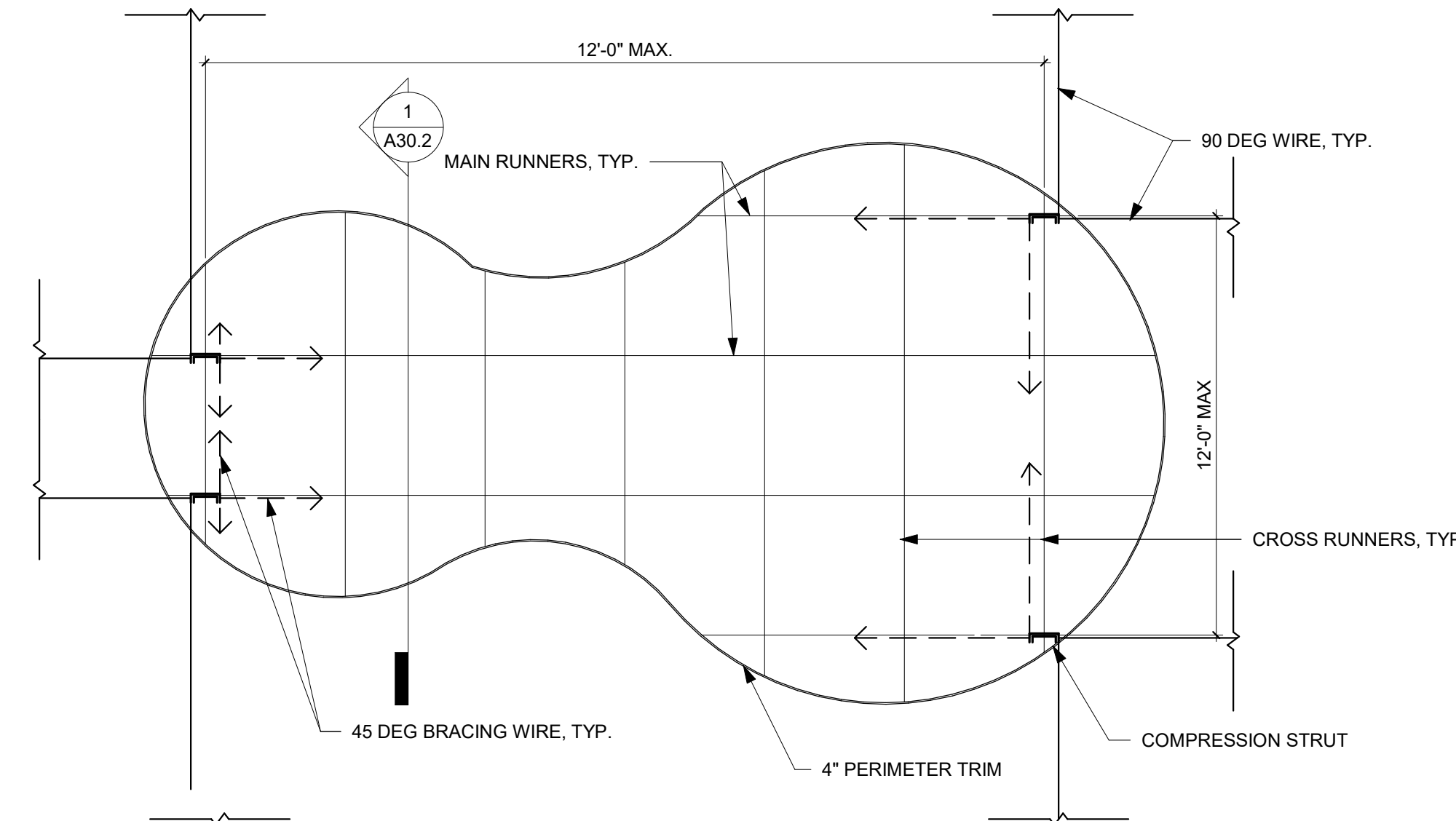
GENERAL NOTES 12" = 1'-0" 20



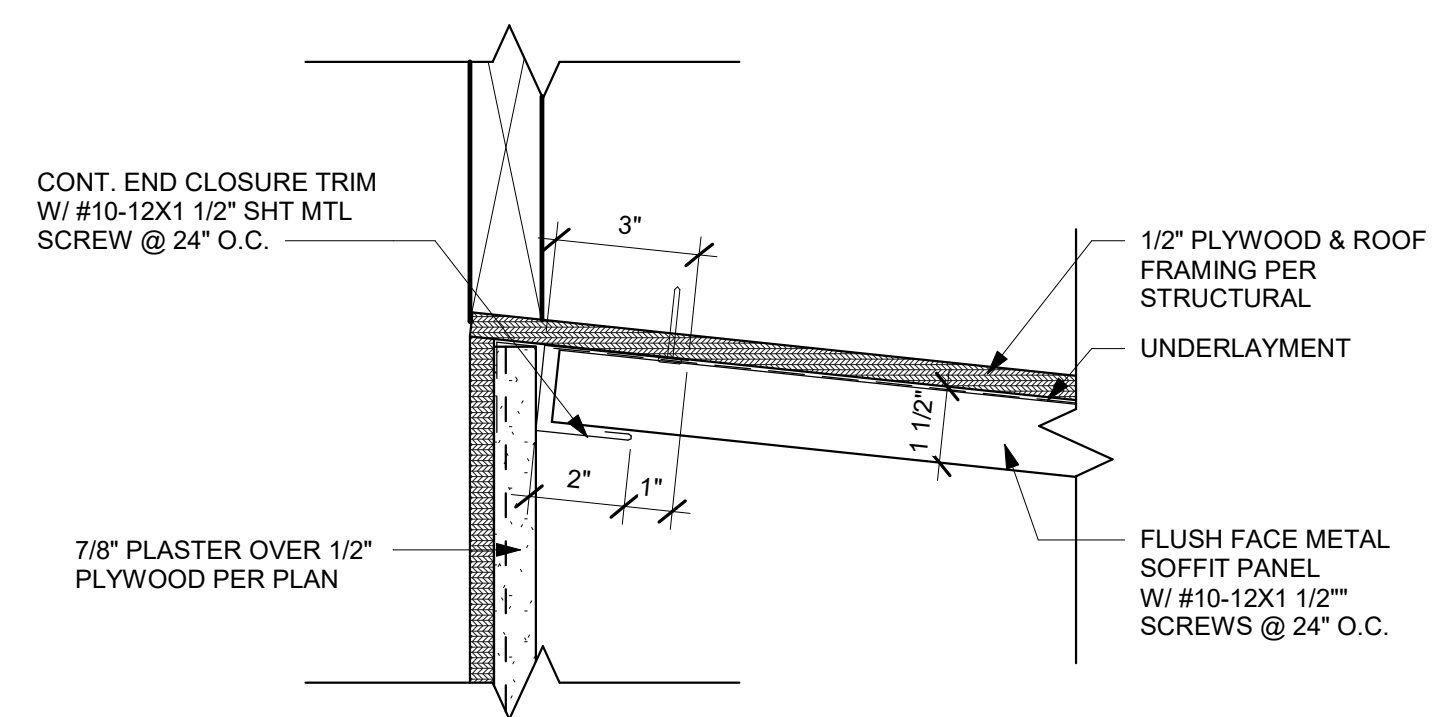
FLOATING CLG ATTACHMENT 1 1/2" = 1'-0" 1



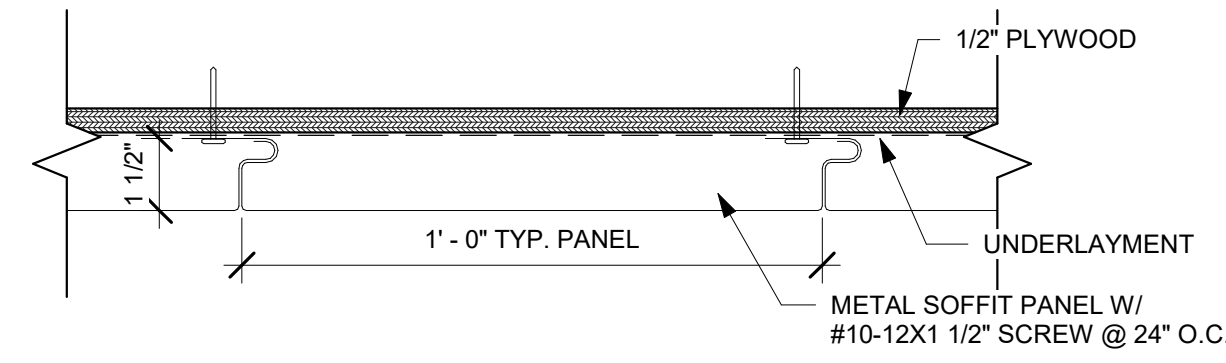
CEILING - FLOATING CEILING PLAN1 1/2" = 1'-0" 2



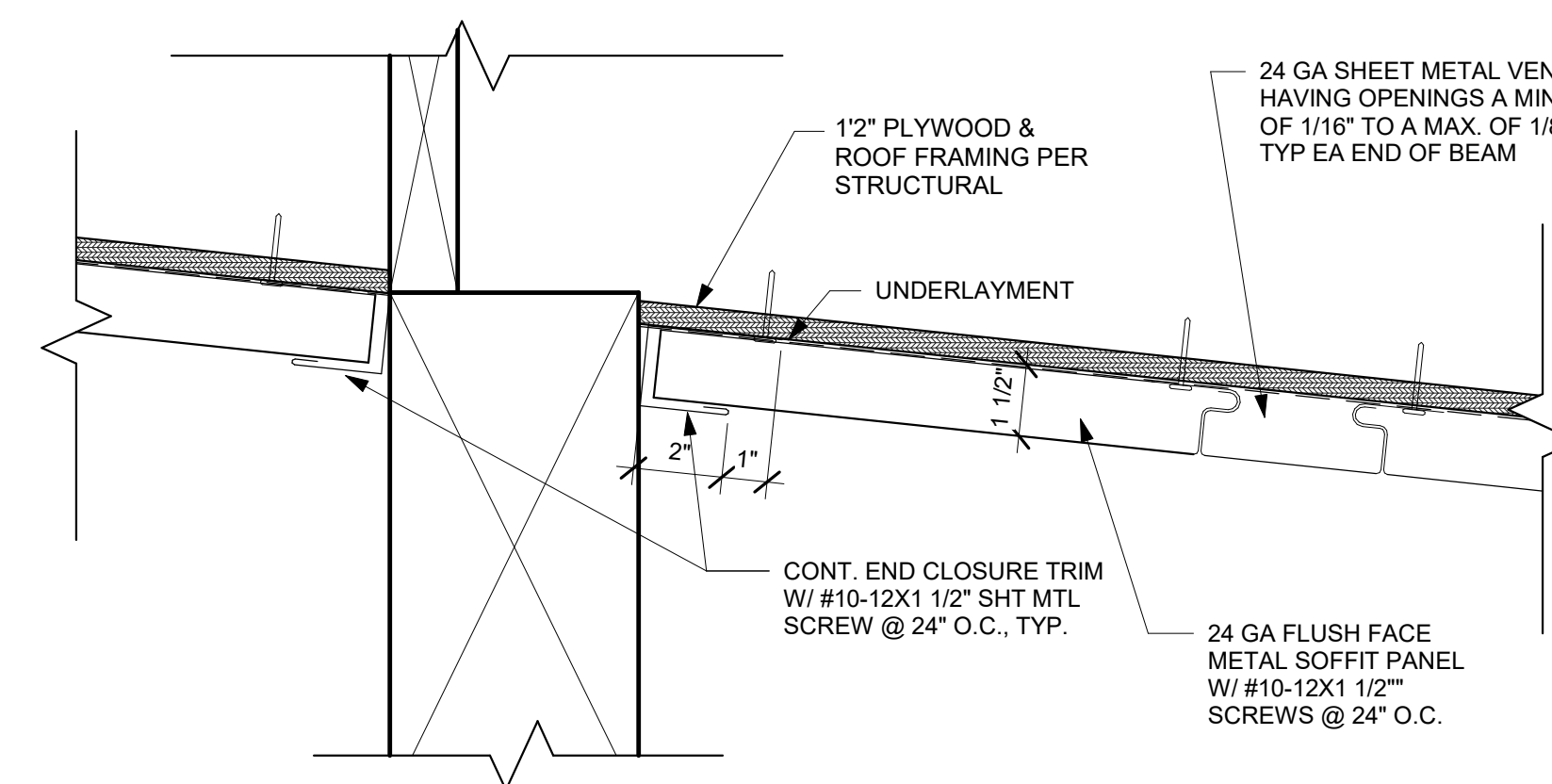
CEILING- FLOATING CEILING PLAN 2 1/2" = 1'-0" 2A



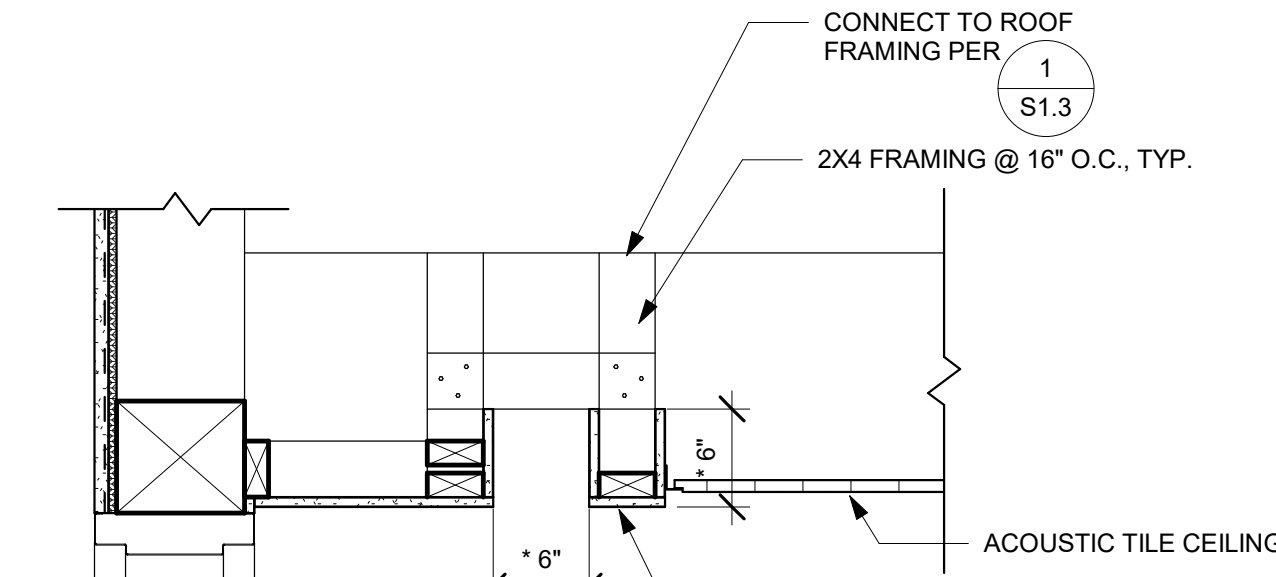
PANEL ATTACHMENT @ WALL 3" = 1'-0" 3



PANEL ATTACHMENT @ SOFFIT 3" = 1'-0" 4



PANEL ATTACHMENT @ BEAM 3" = 1'-0" 5

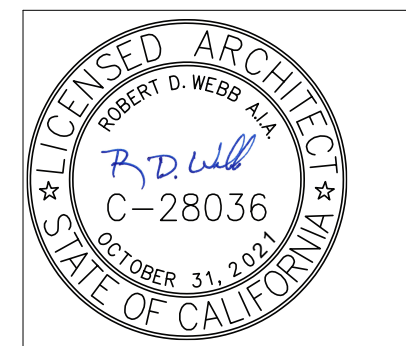


* VERIFY OPNG SIZE WITH PROJECTOR CASE DIMENSIONS

PROJECTOR SOFFIT 1" = 1'-0" 6

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REFLECTED CEILING
 PLAN DETAILS

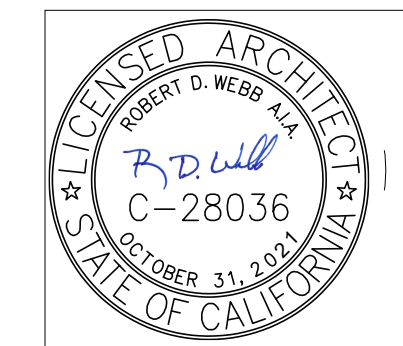
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 Author:
 Checked:
 Checker:
 Date:
 OCT. 14, 2019
 Job:
 SSD-PA-03

A30.2

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 DIV. OF THE STATE ARCHITECT
 APP. 04-118742 INC.
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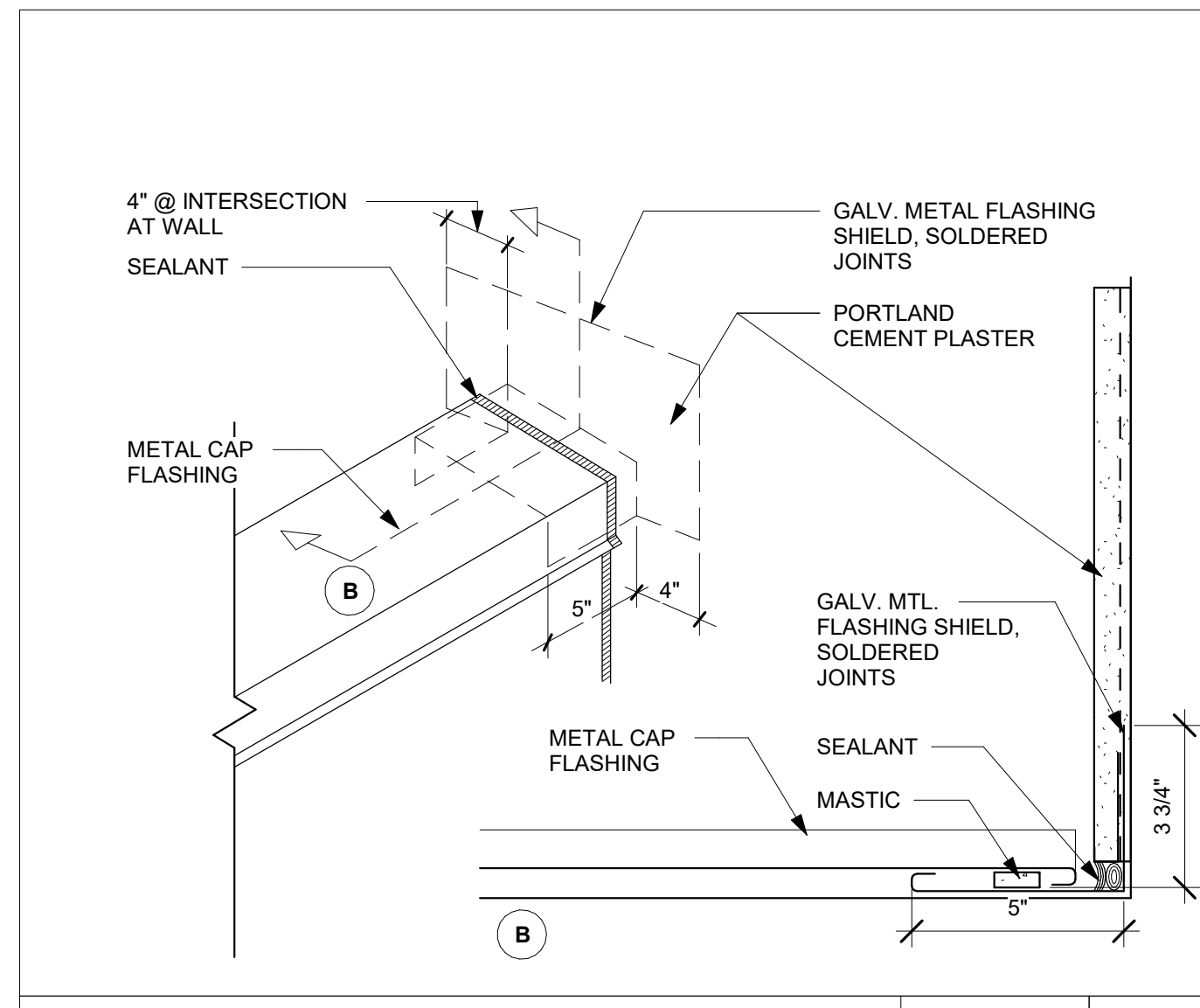


PROSPECT AVENUE ELEMENTARY SCHOOL
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 SANTEE SCHOOL DISTRICT

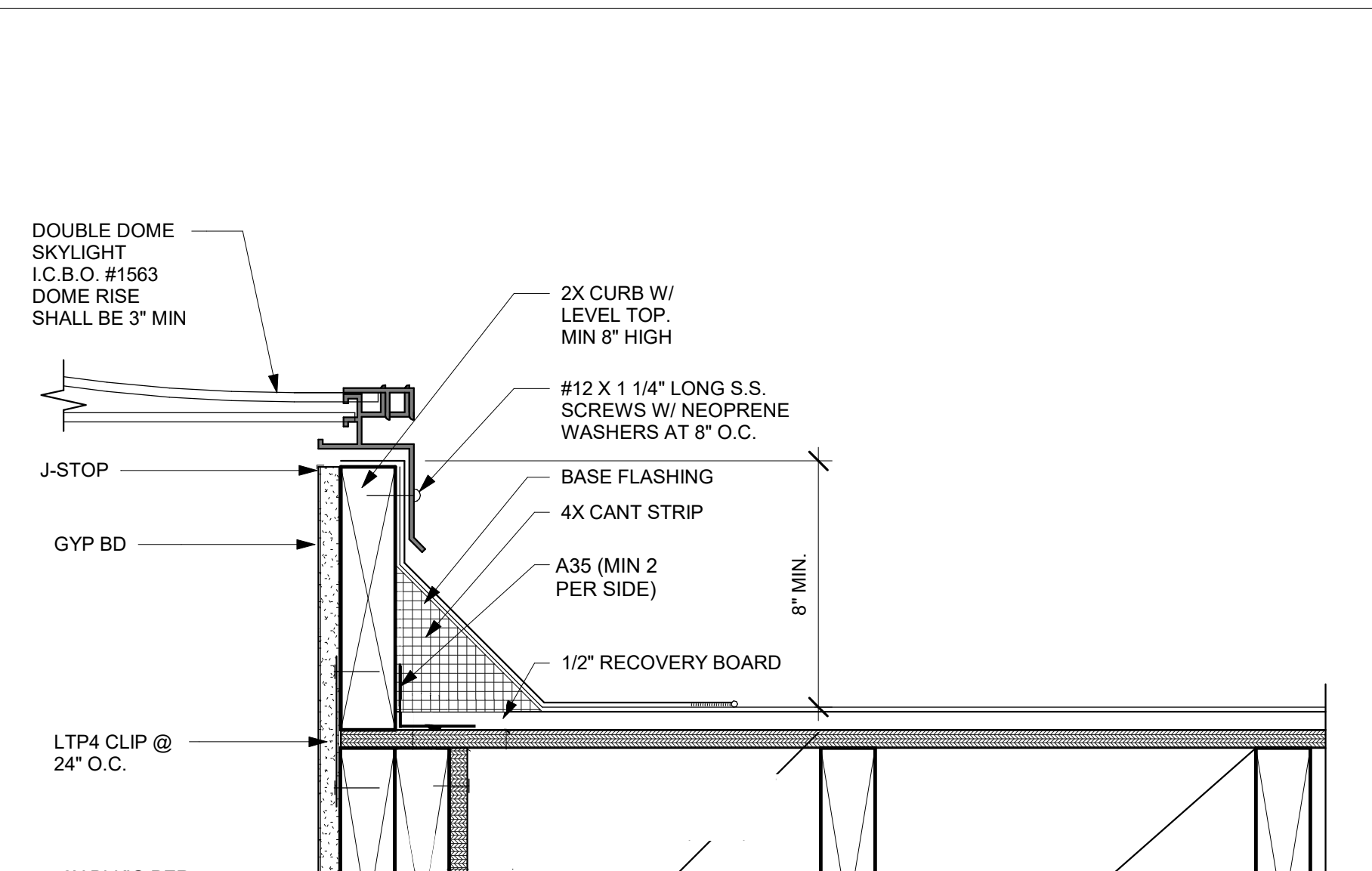
ROOFING DETAILS

Drawn: RI
 Checked: RDW
 Date: OCT. 14, 2019
 Job: SSD-PA-03

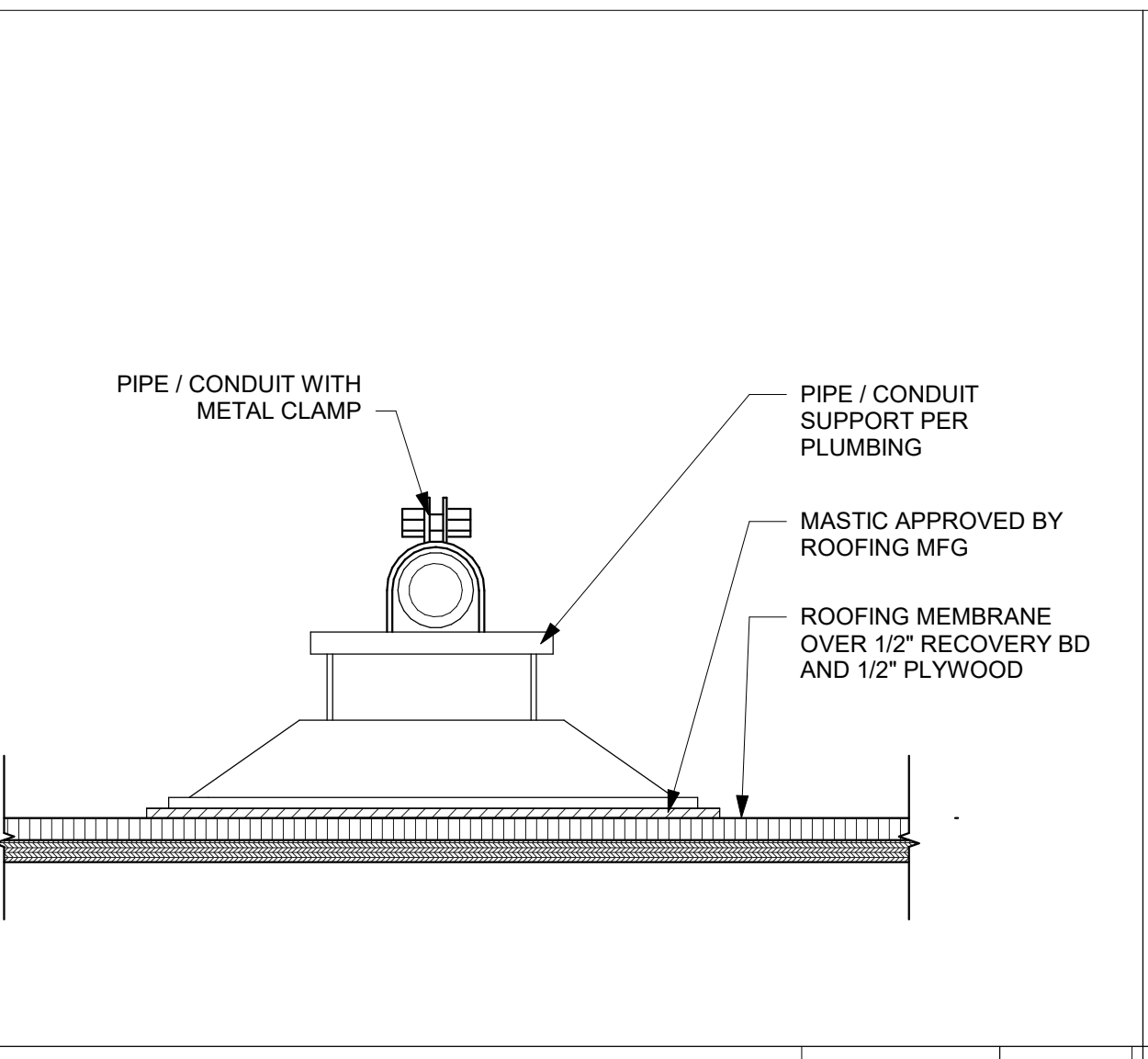
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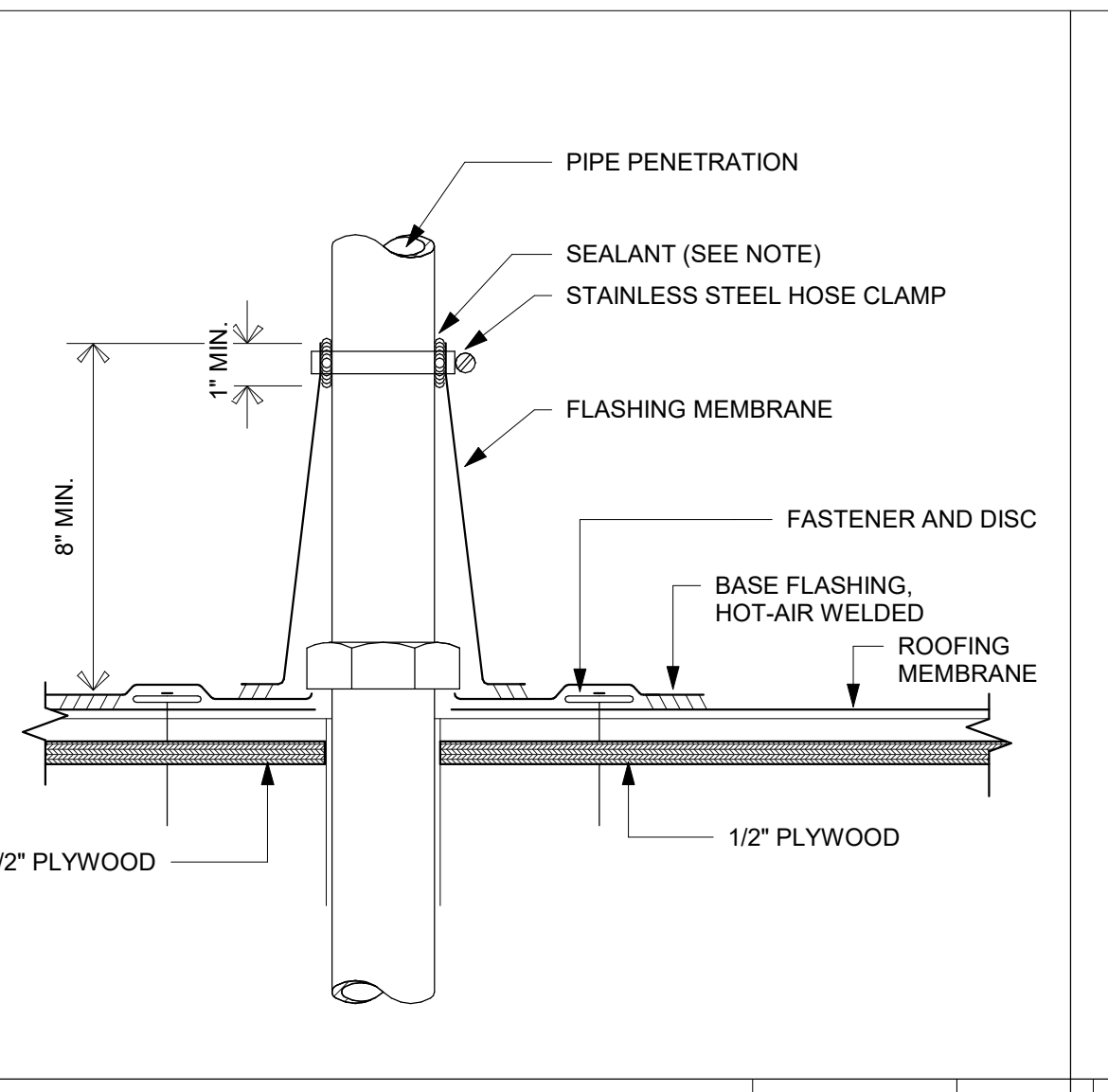
FLASHING AT WALL 3" = 1'-0" 1



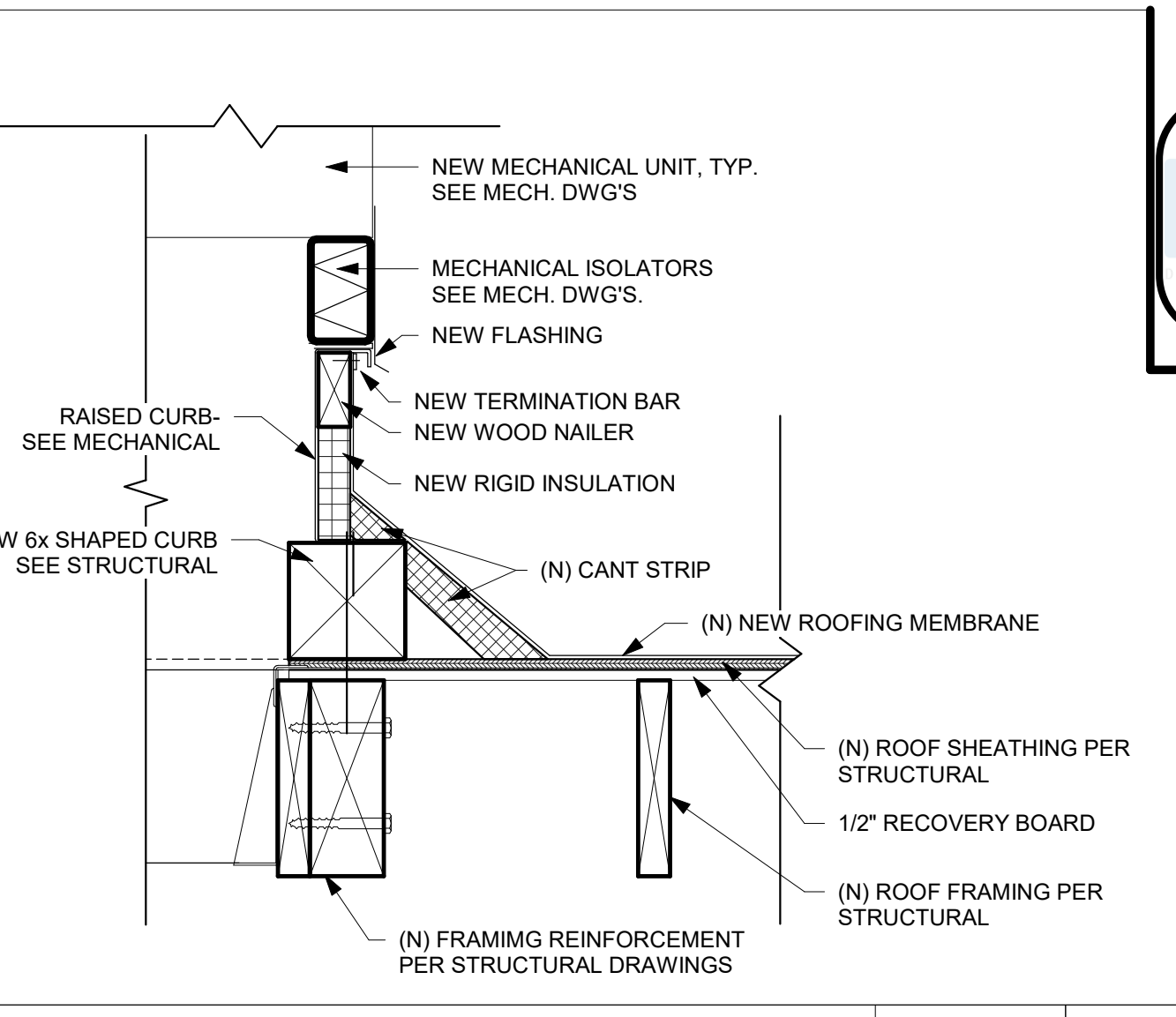
SKYLIGHT DETAIL 3" = 1'-0" 14



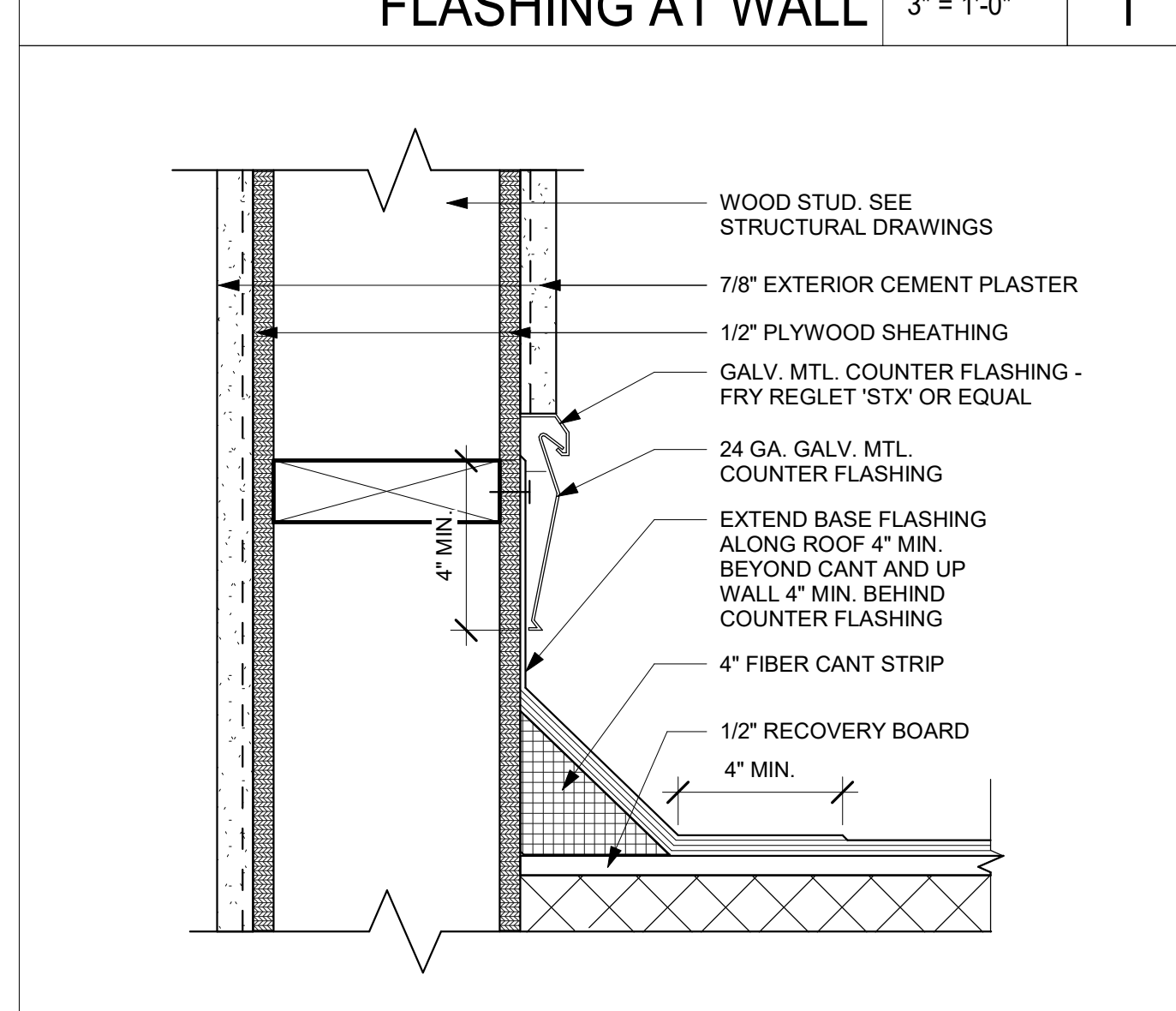
PIPE SUPPORT 3" = 1'-0" 3



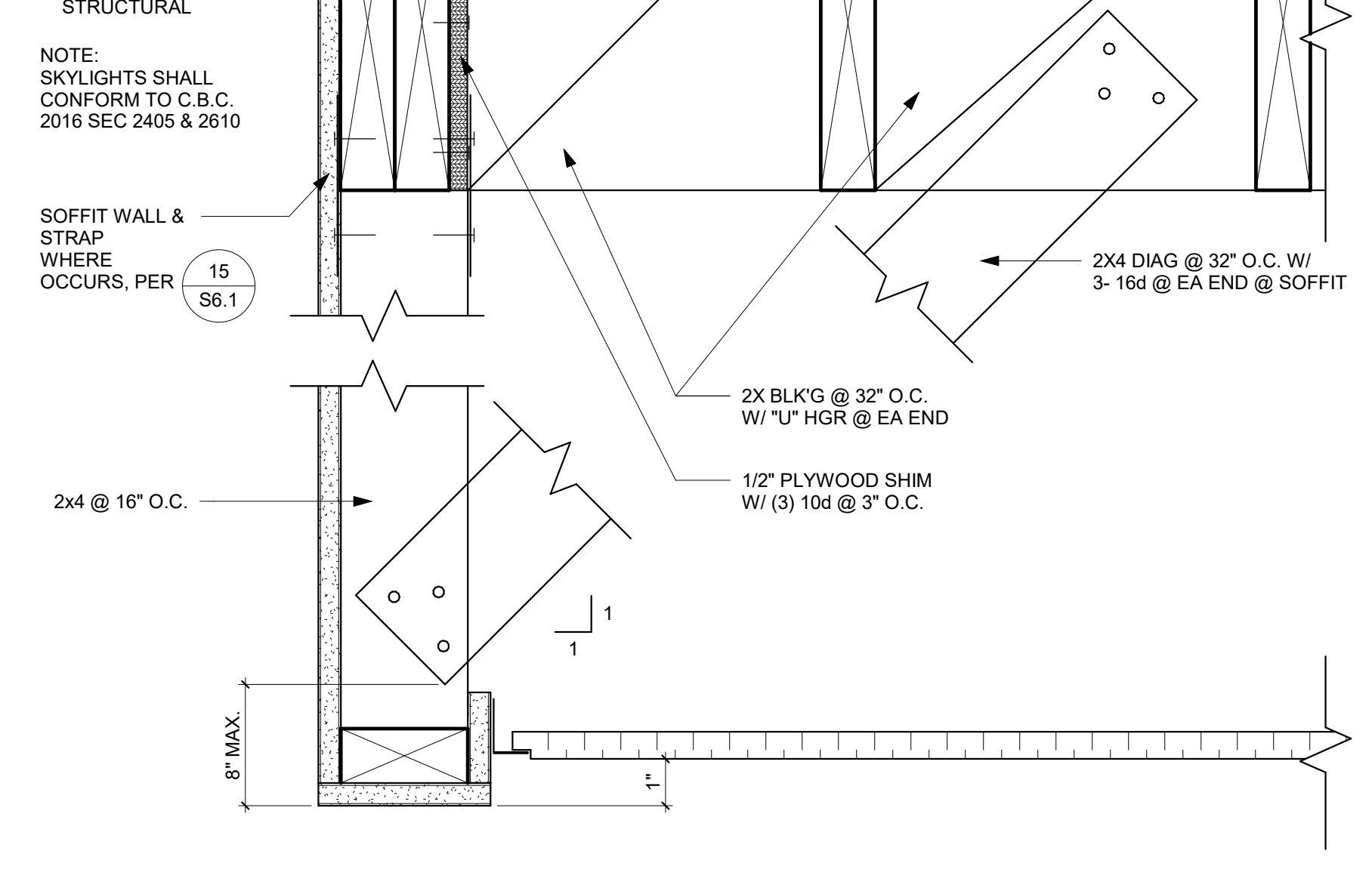
PIPE FLASHING 3" = 1'-0" 7



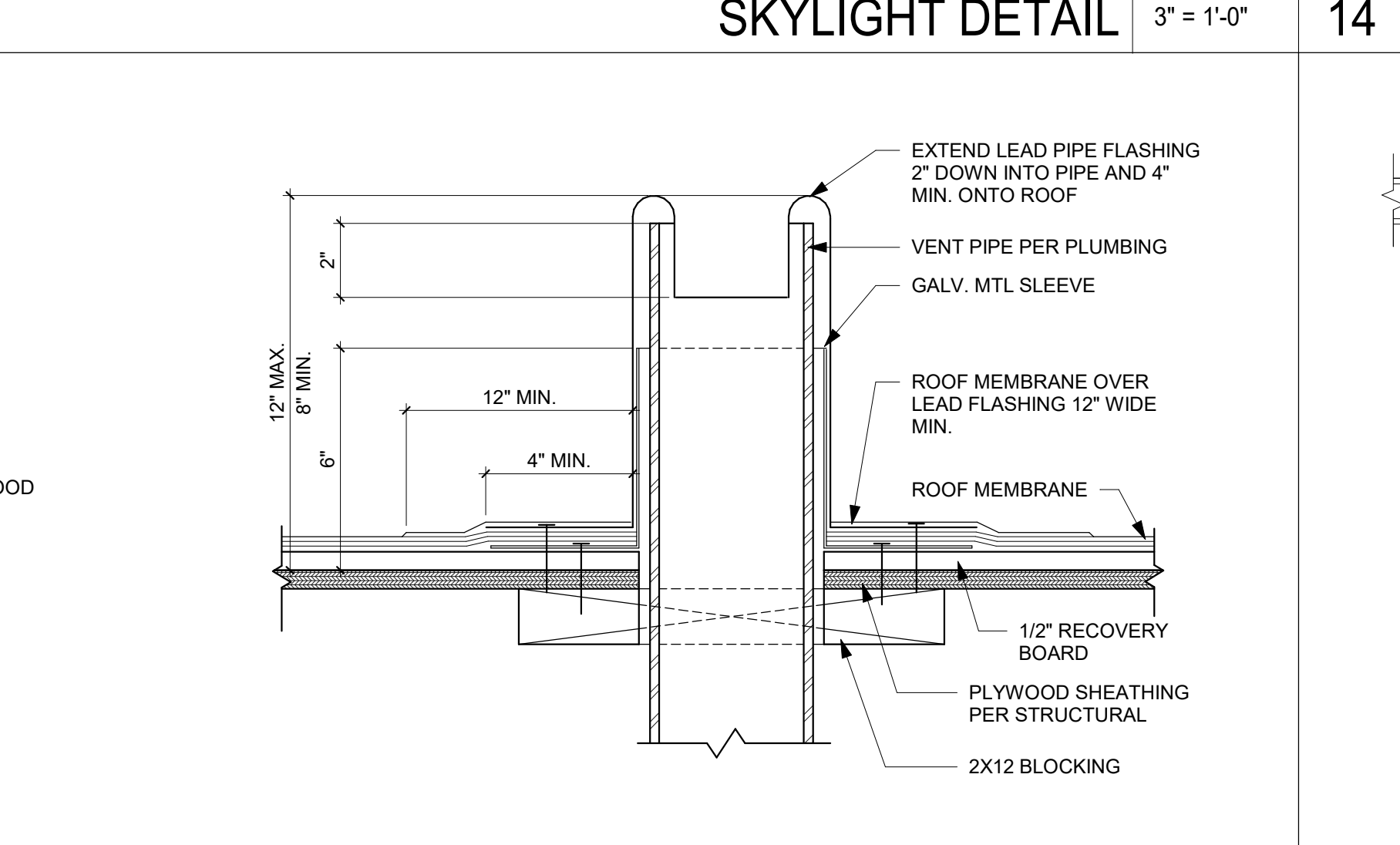
MECHANICAL CURB 1 1/2" = 1'-0" 5



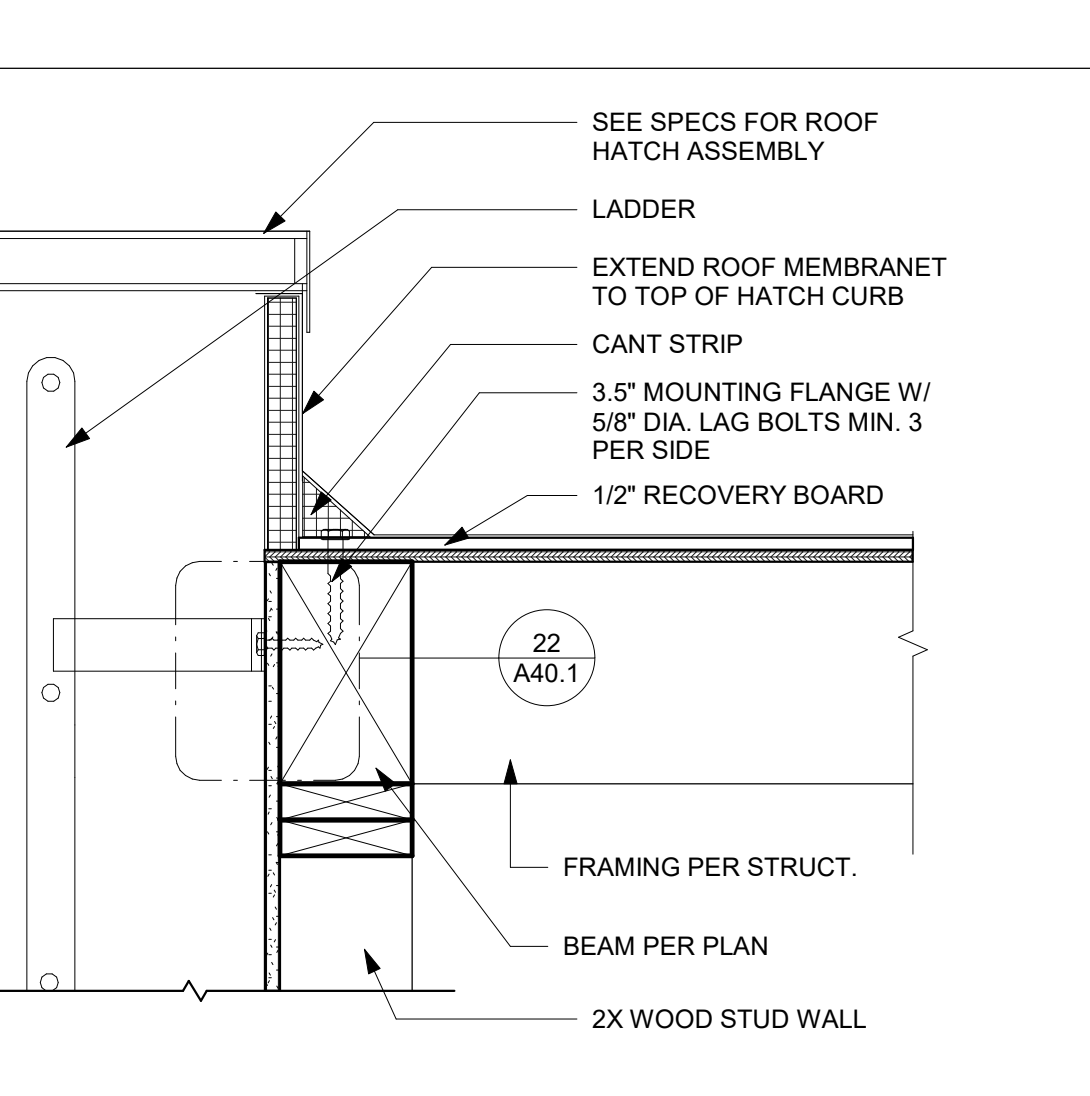
PLASTER REGLET @ TPO ROOFING 3" = 1'-0" 6



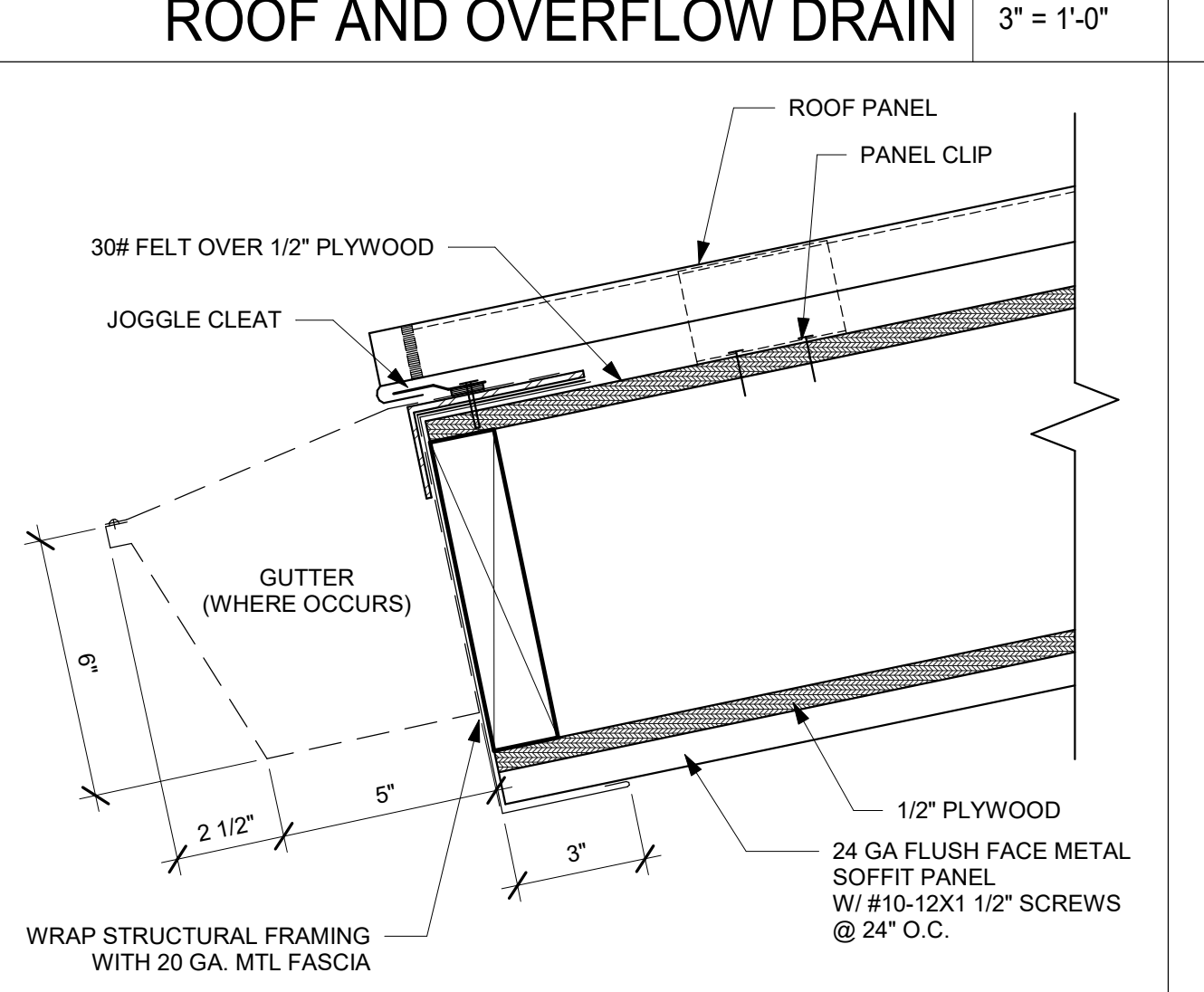
PLASTER REGLET @ MTL ROOFING 3" = 1'-0" 11



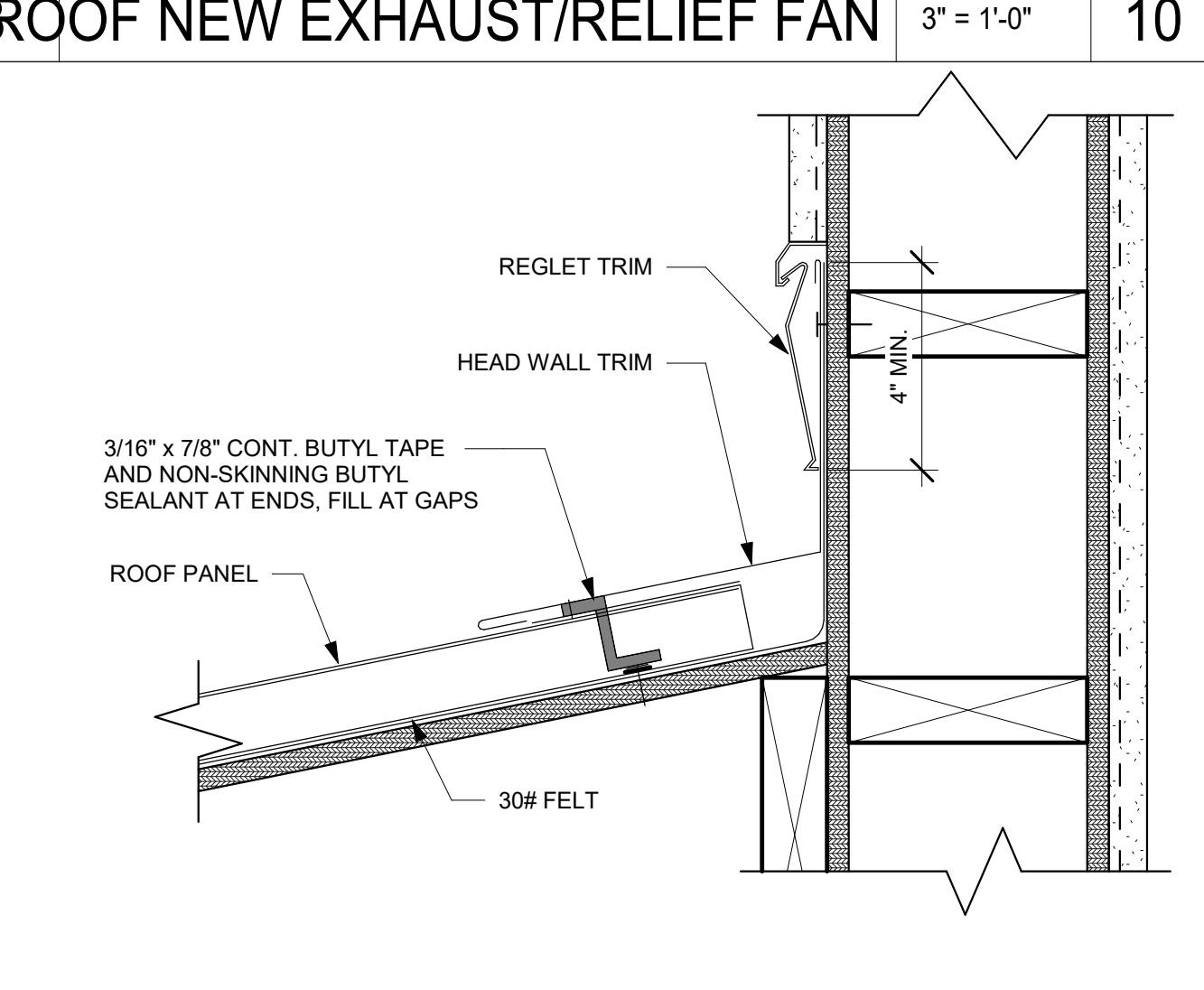
FLASHING AT VENT PIPE 3" = 1'-0" 12



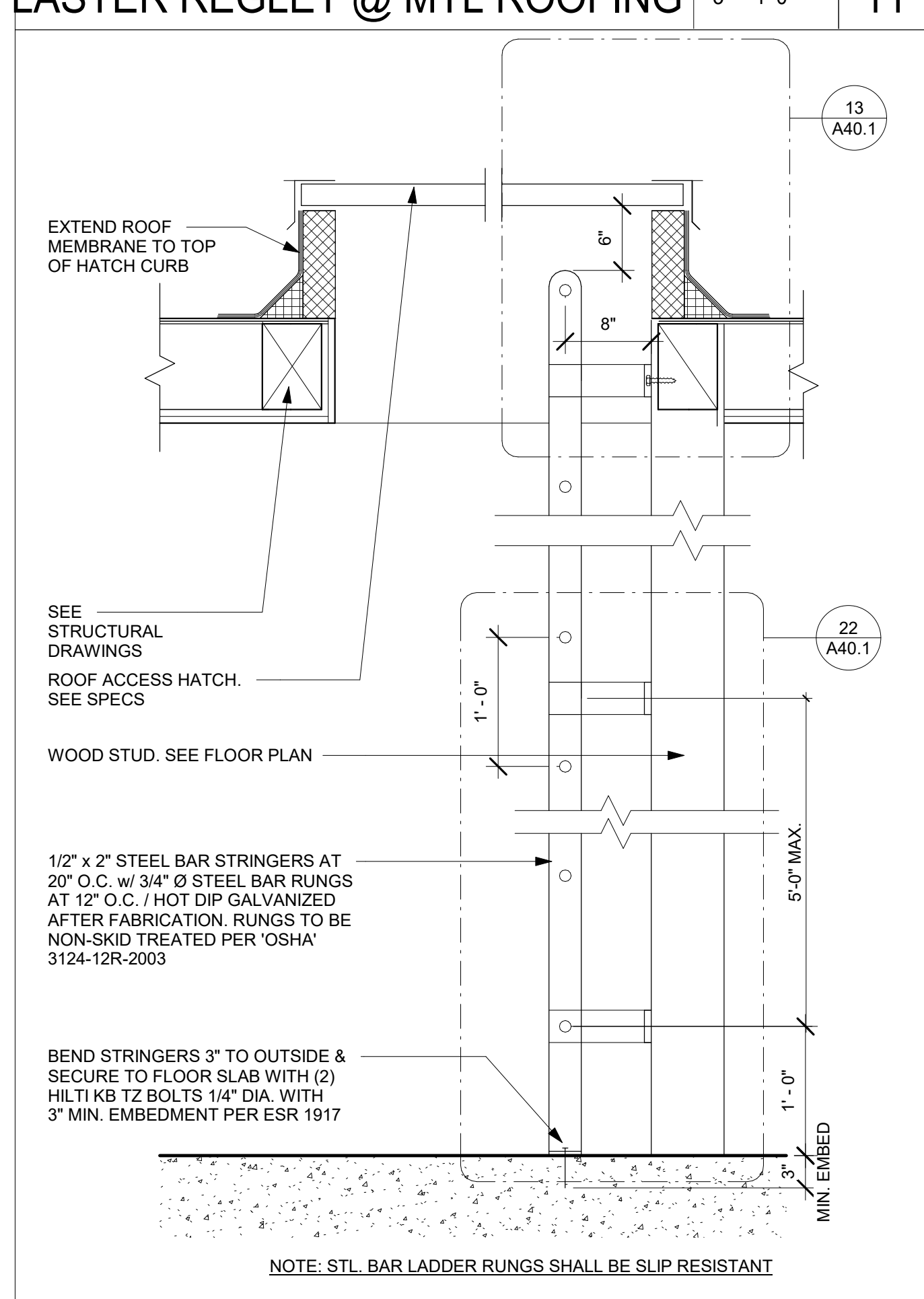
ROOF ACCESS HATCH 1 1/2" = 1'-0" 13



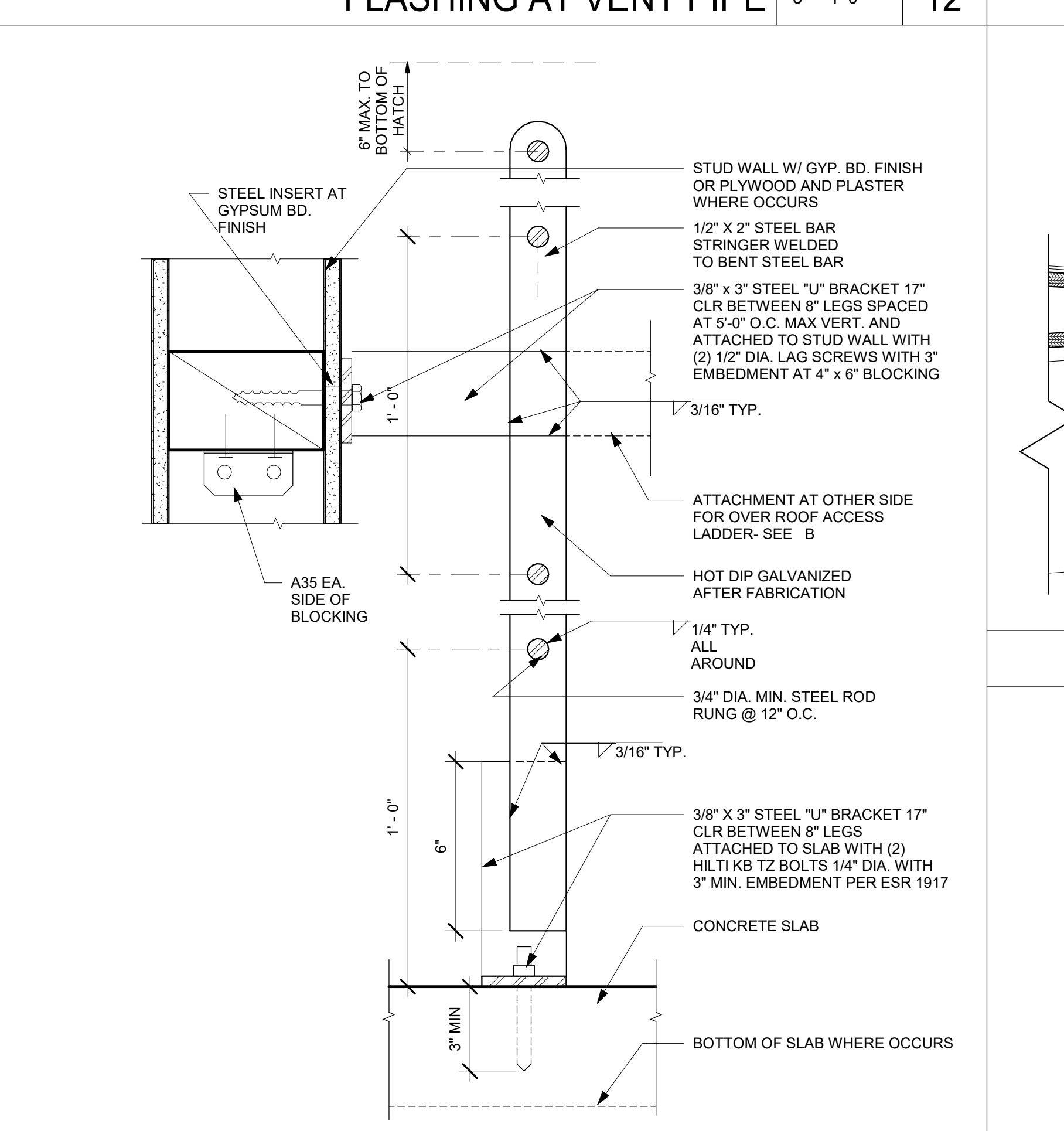
ROOF EAVE - LOW SIDE 3" = 1'-0" 15



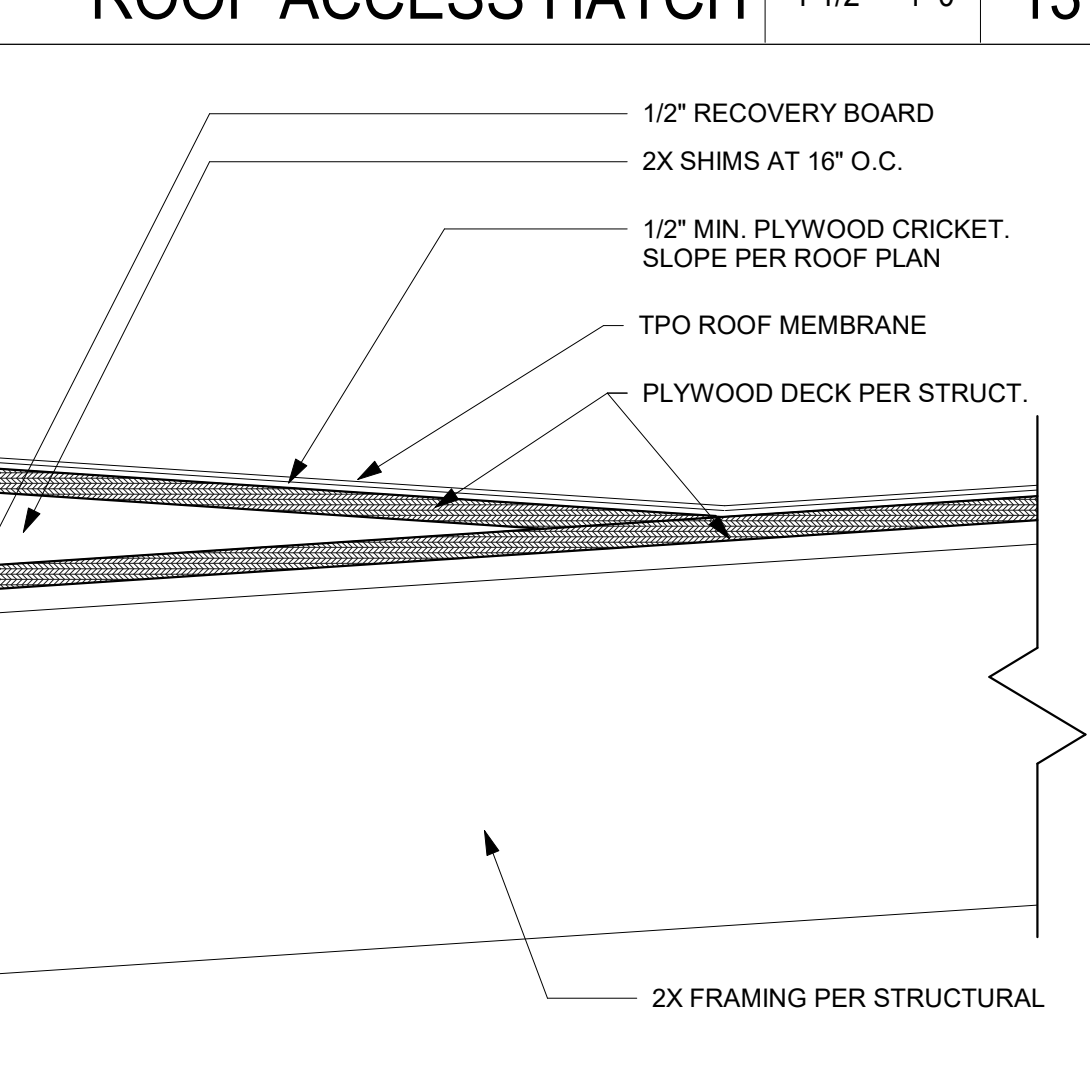
HEAD WALL DETAIL 3" = 1'-0" 18



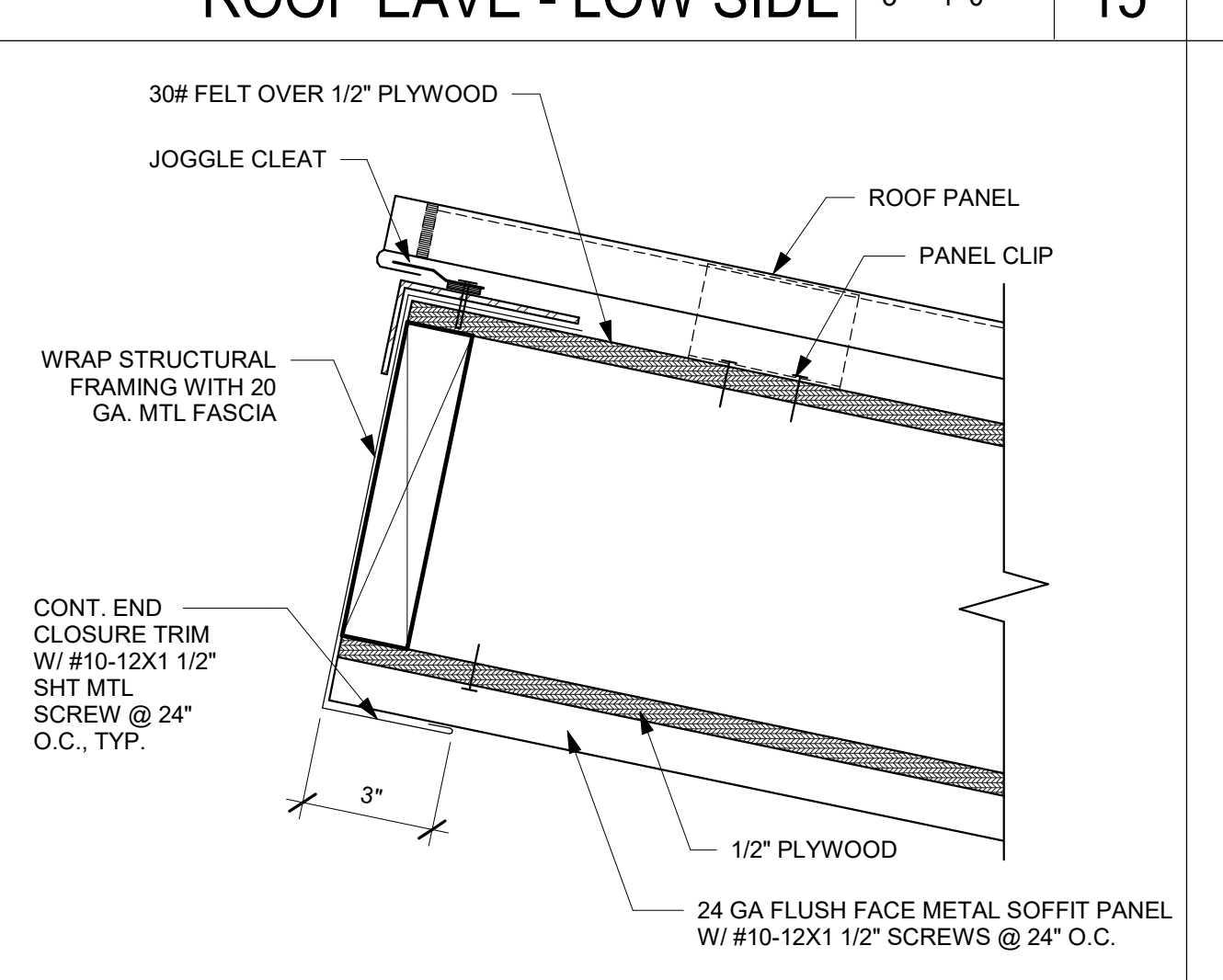
ROOF ACCESS LADDER 1" = 1'-0" 21



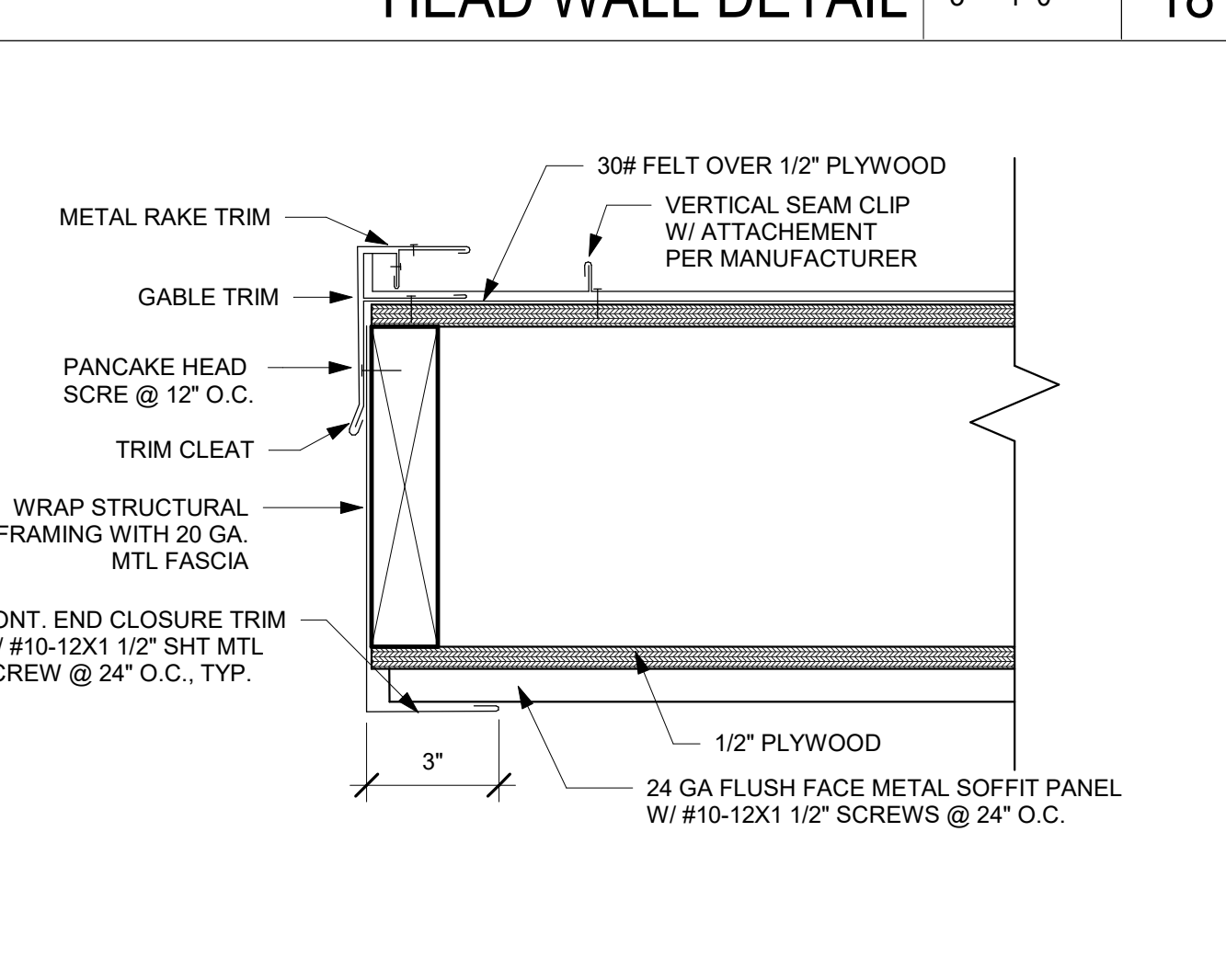
ROOF ACCESS LADDER ATTACHMENT 3" = 1'-0" 22



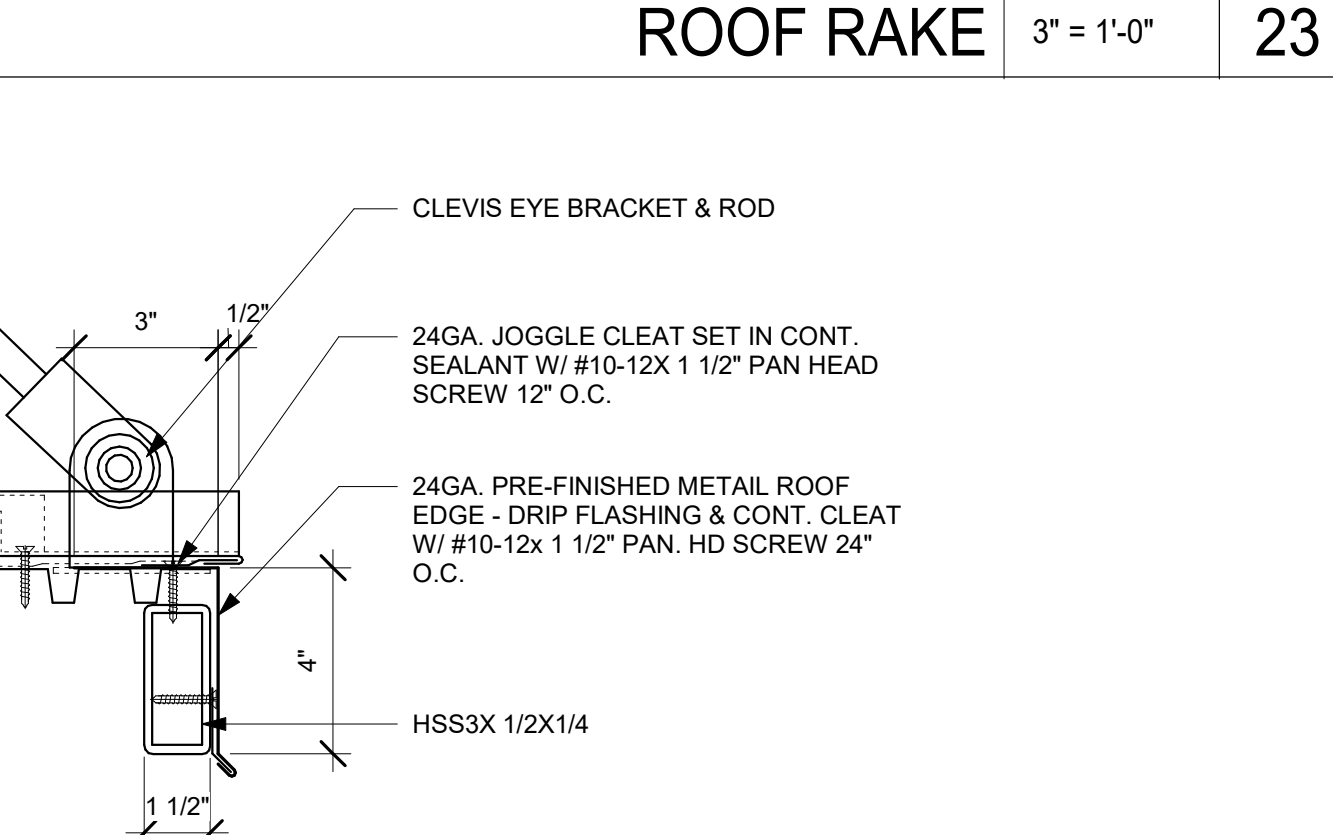
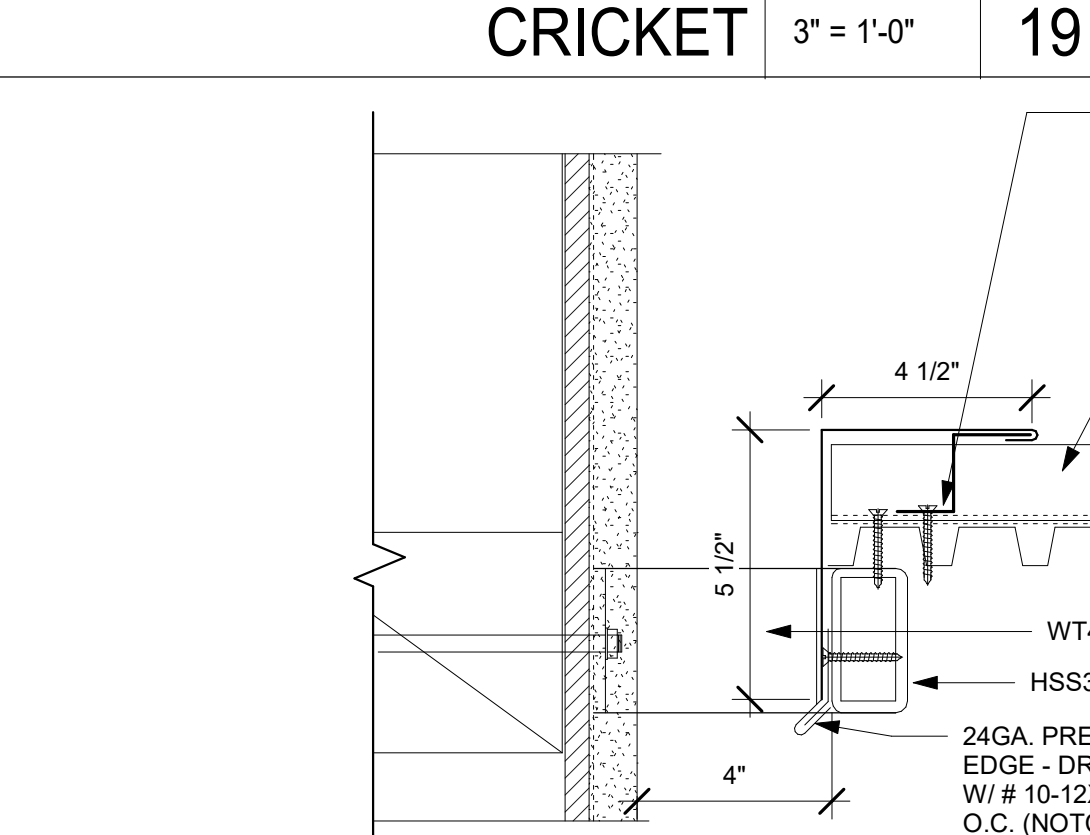
CRICKET 3" = 1'-0" 19



ROOF EAVE - HIGH SIDE 3" = 1'-0" 20

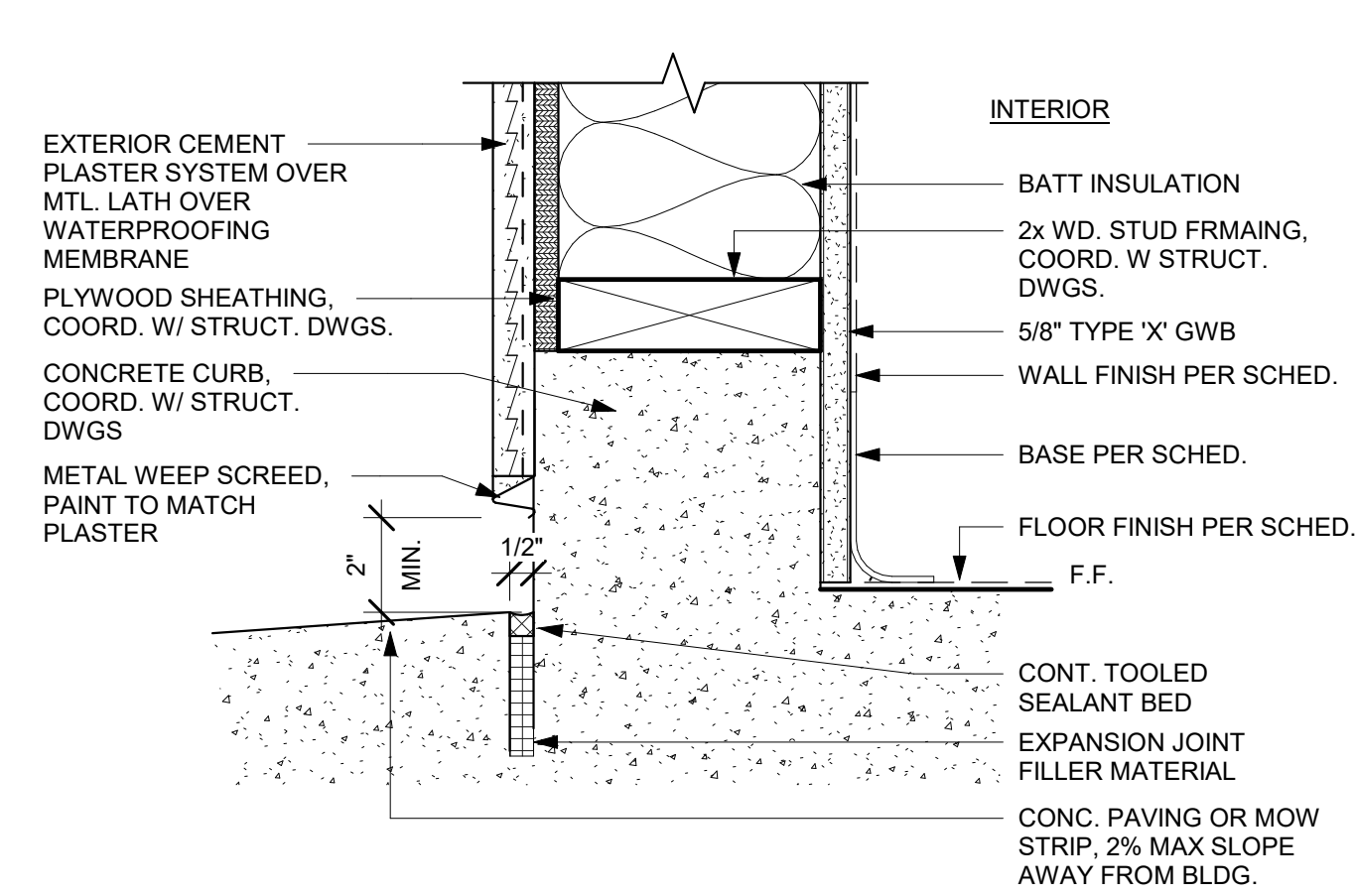
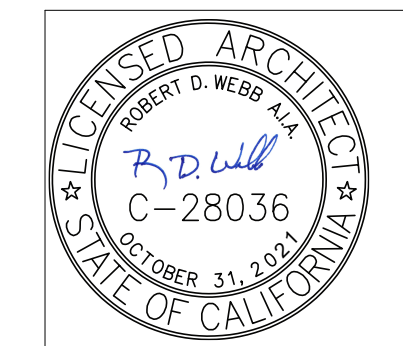


ROOF RAKE 3" = 1'-0" 23

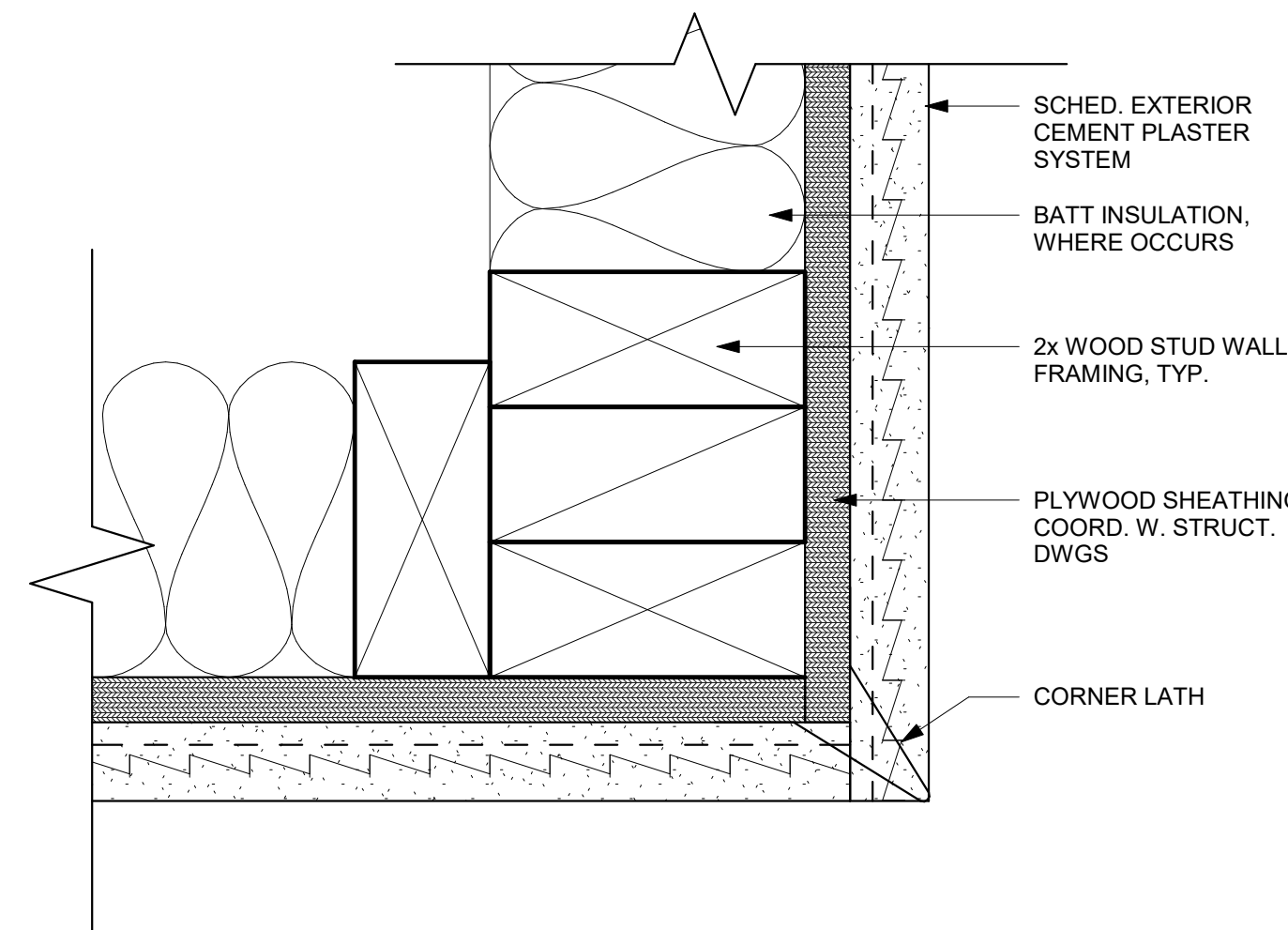


METAL ROOF EAVE AT CANOPY 3" = 1'-0" 24

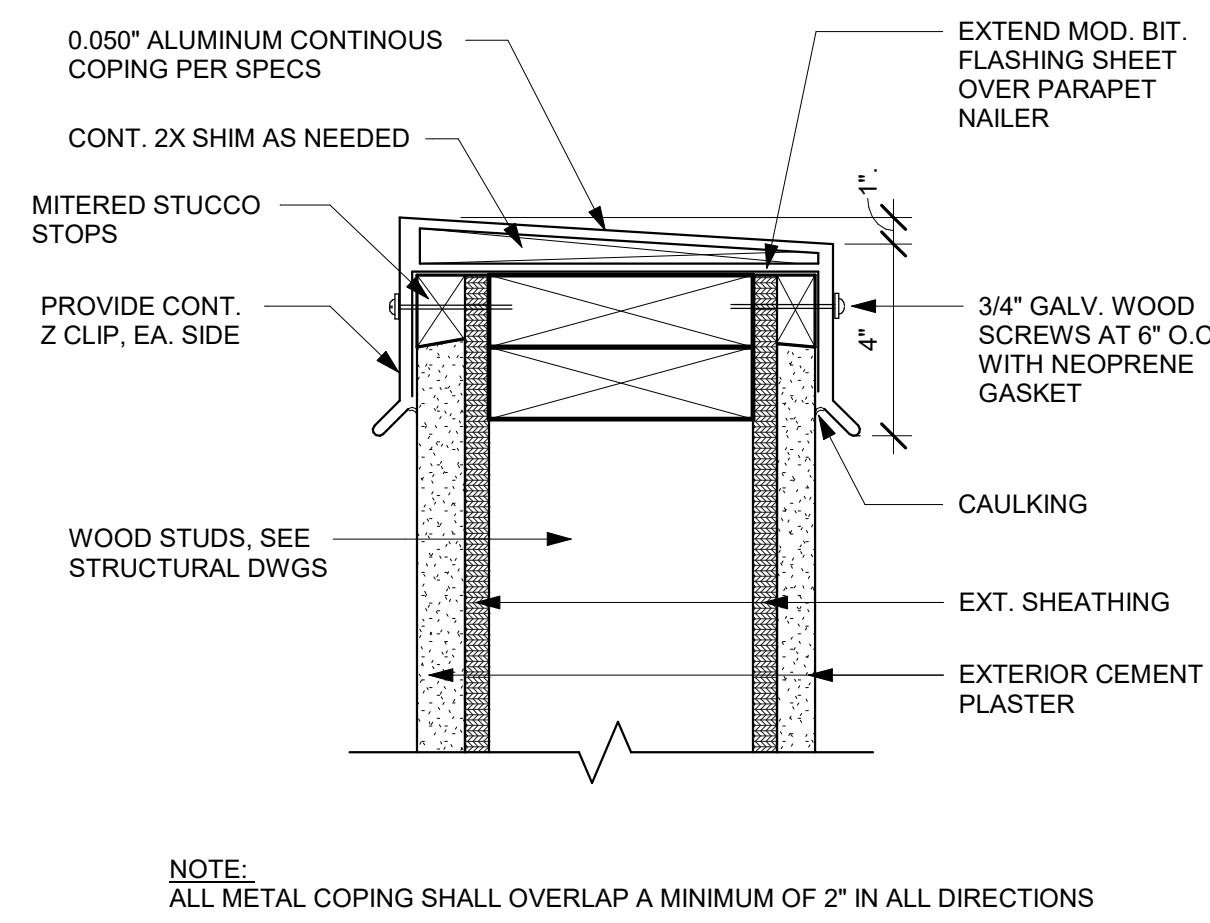
Date	Revision



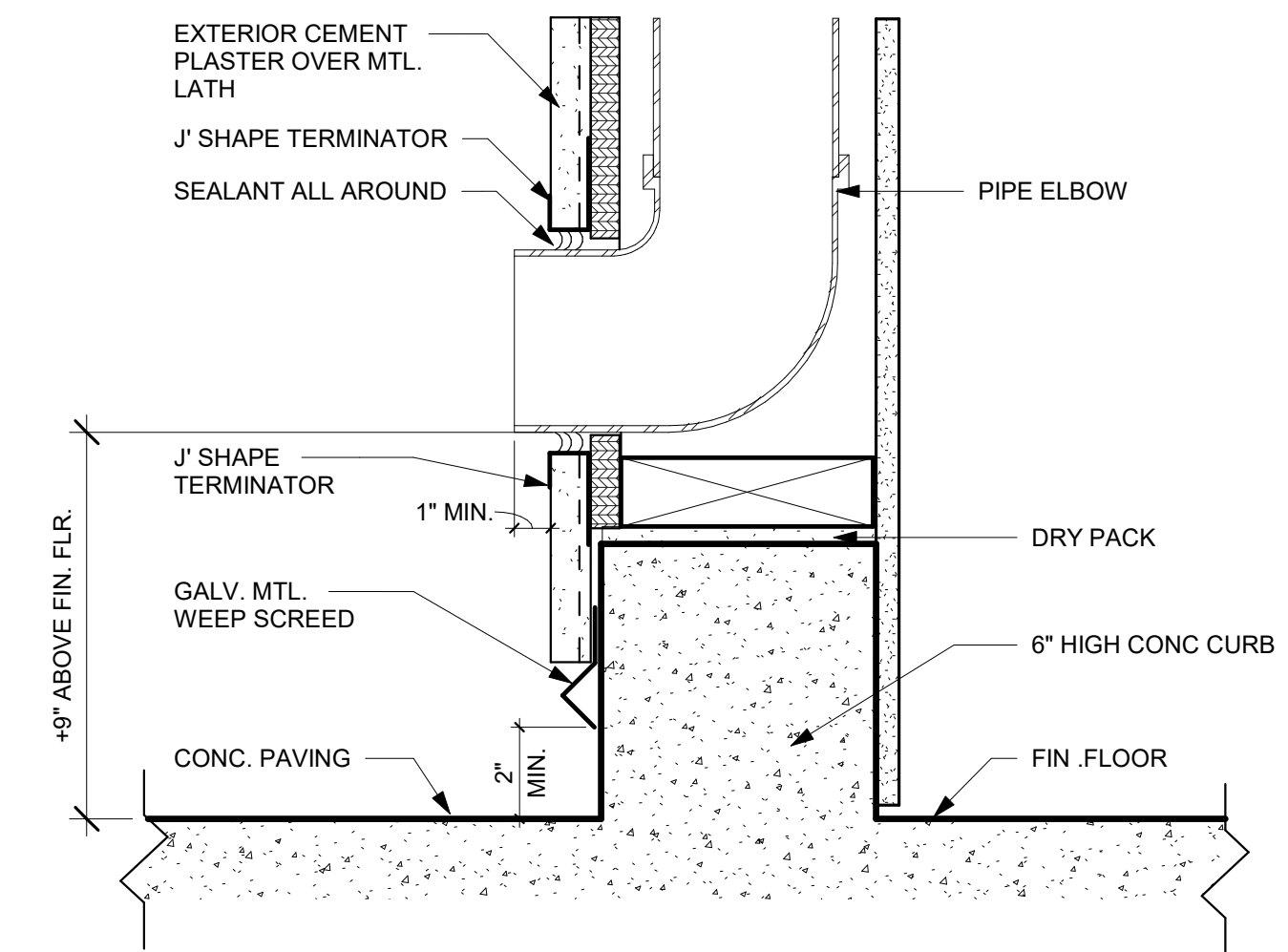
EXTERIOR WALL @ CONCRETE CURB 3" = 1'-0" 1



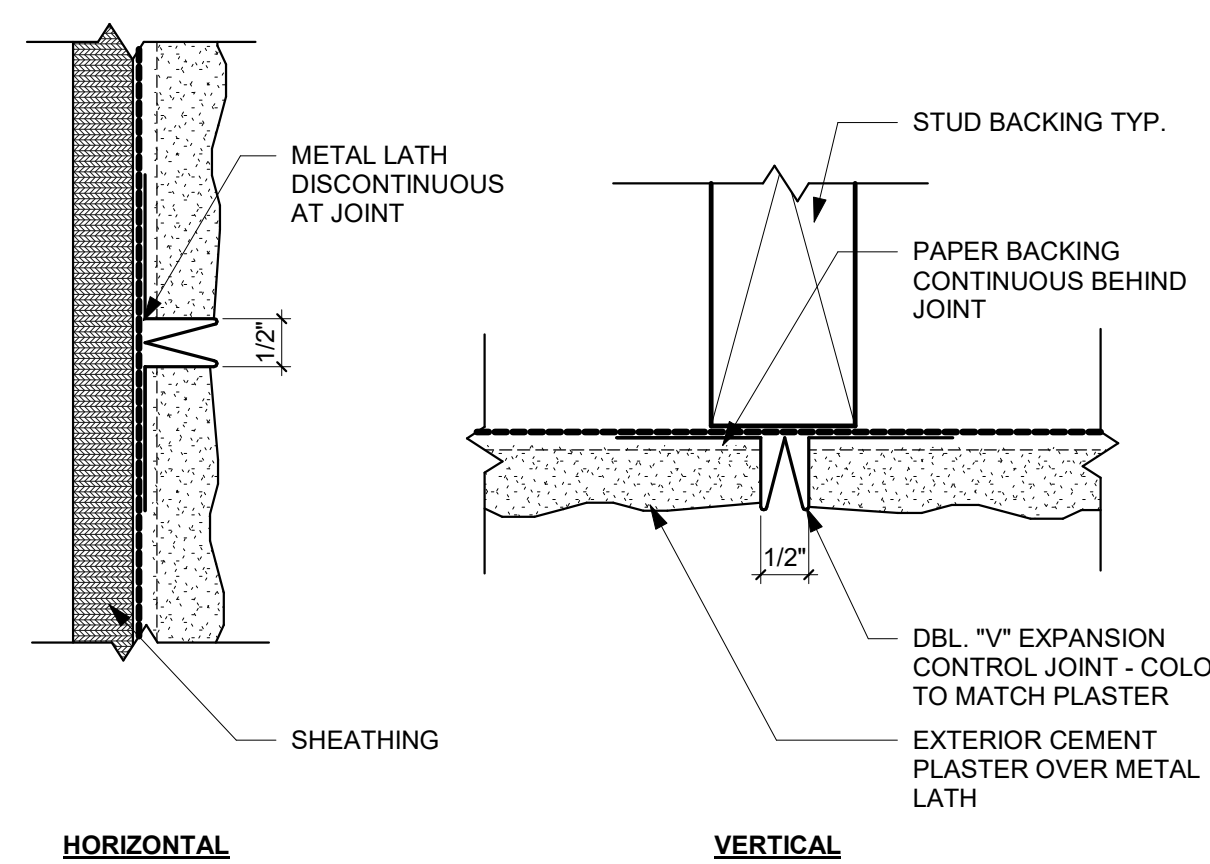
TYP. PLASTERED CORNER 6" = 1'-0" 2



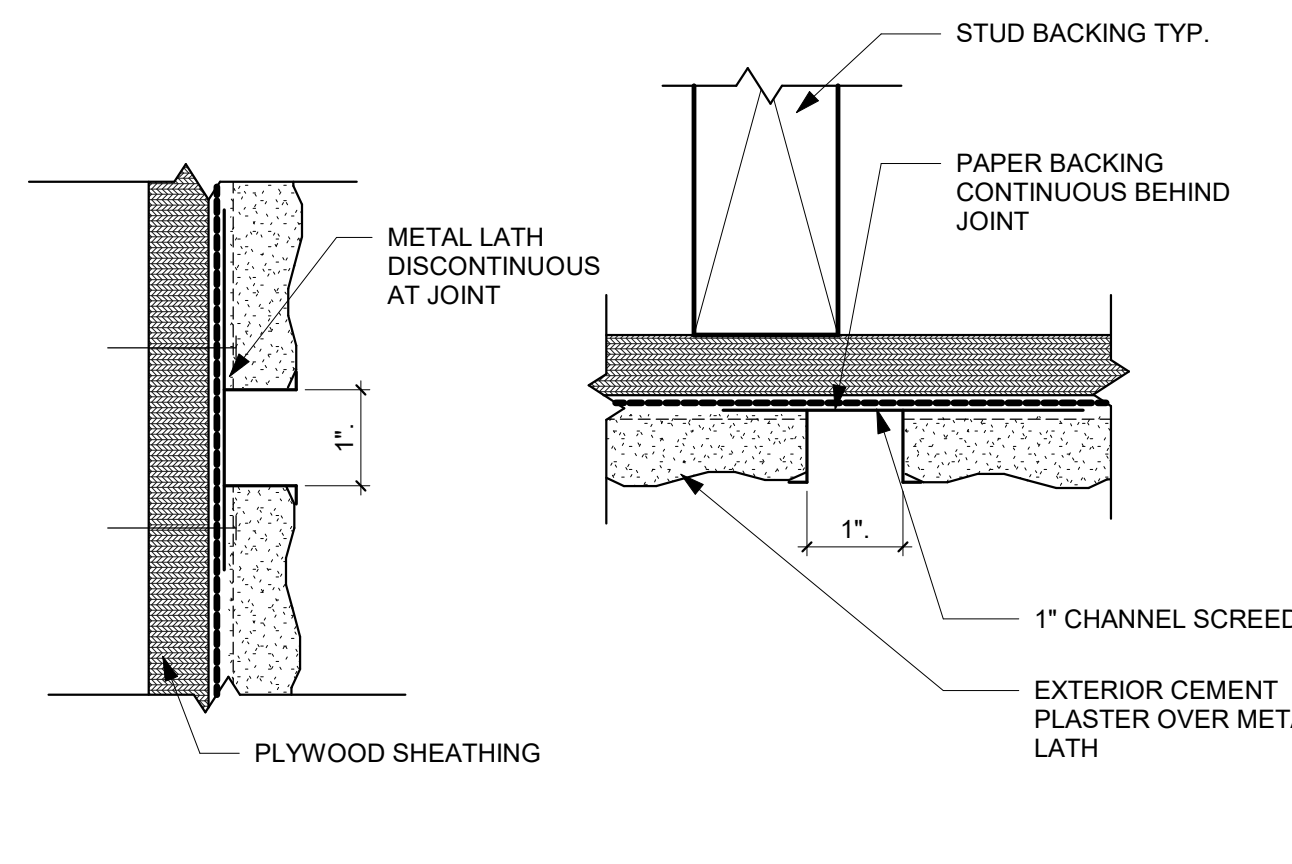
PARAPET COPING 3" = 1'-0" 3



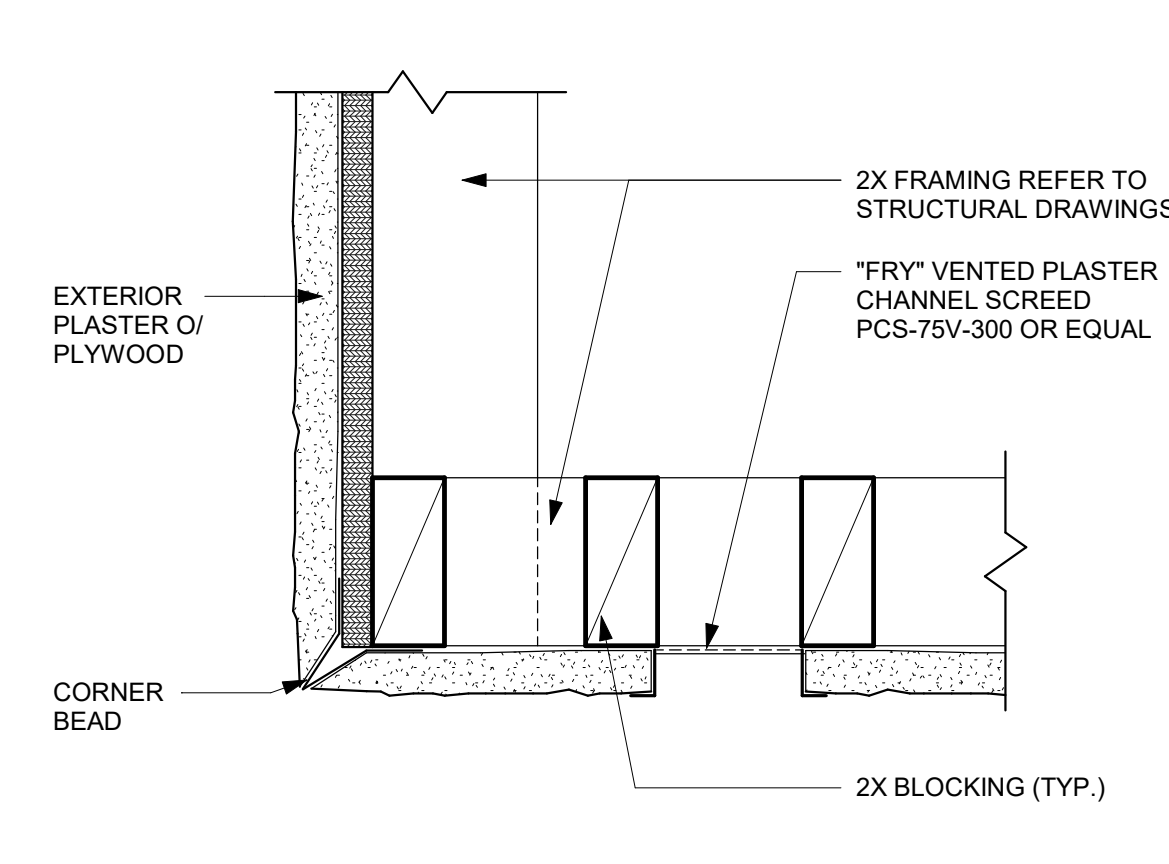
OVERFLOW AT WALL 3" = 1'-0" 4



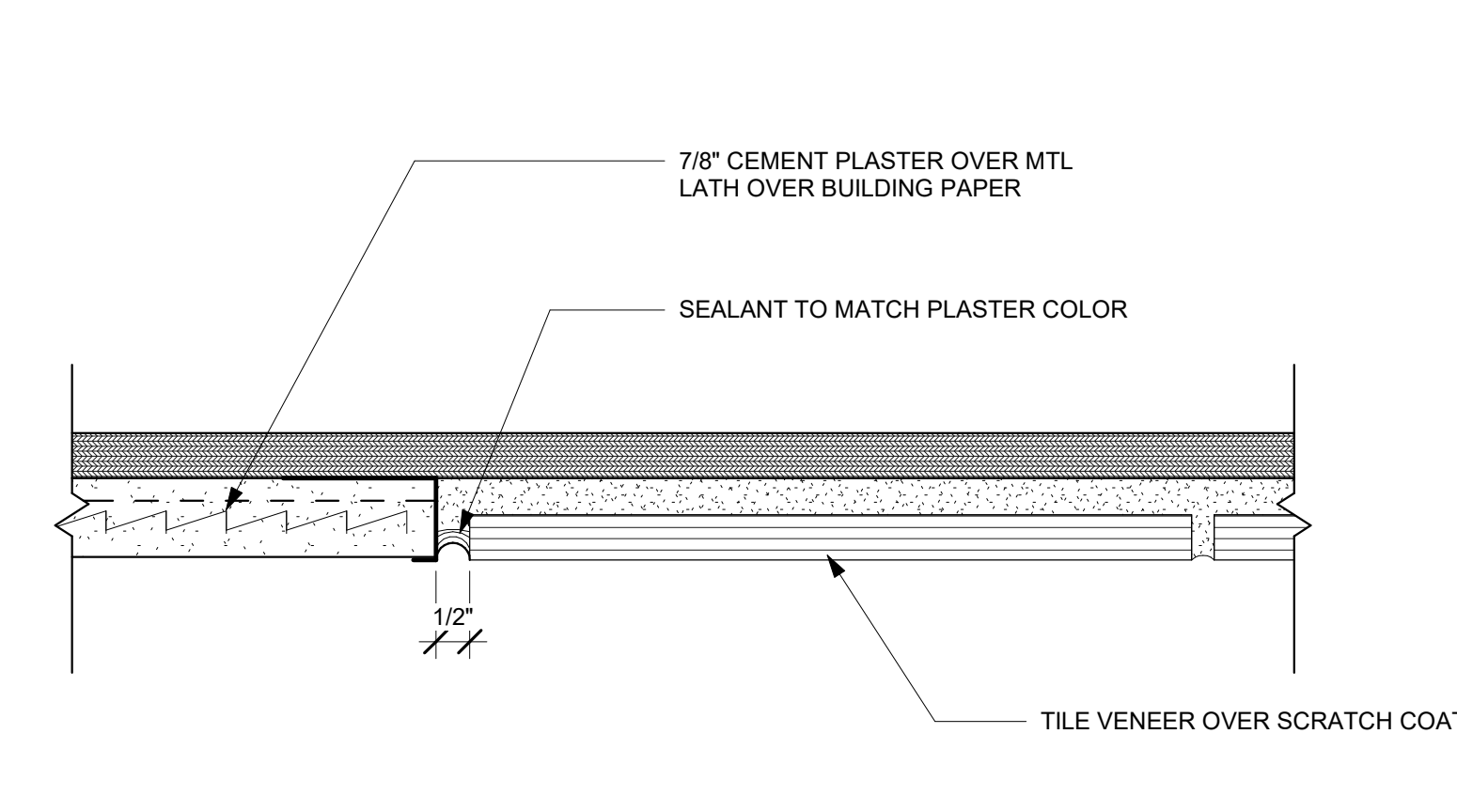
CONTROL JOINT 6" = 1'-0" 5



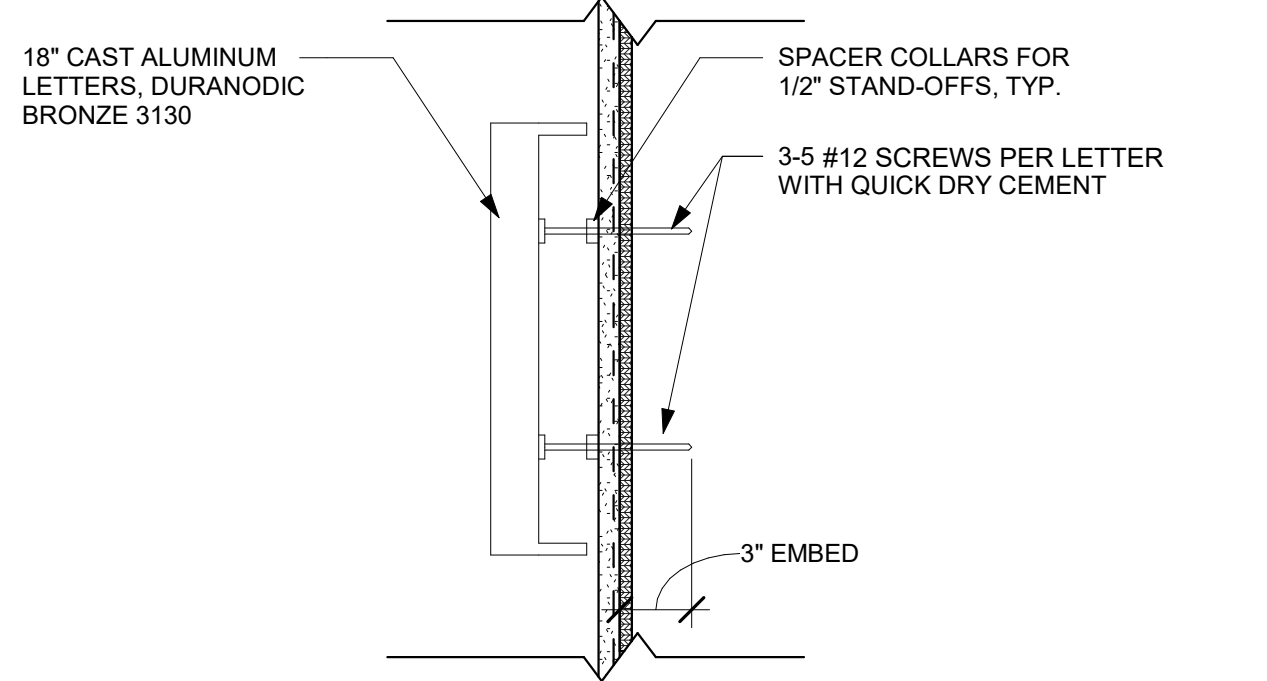
MTL PLASTER SCREED / REVEAL 6" = 1'-0" 6



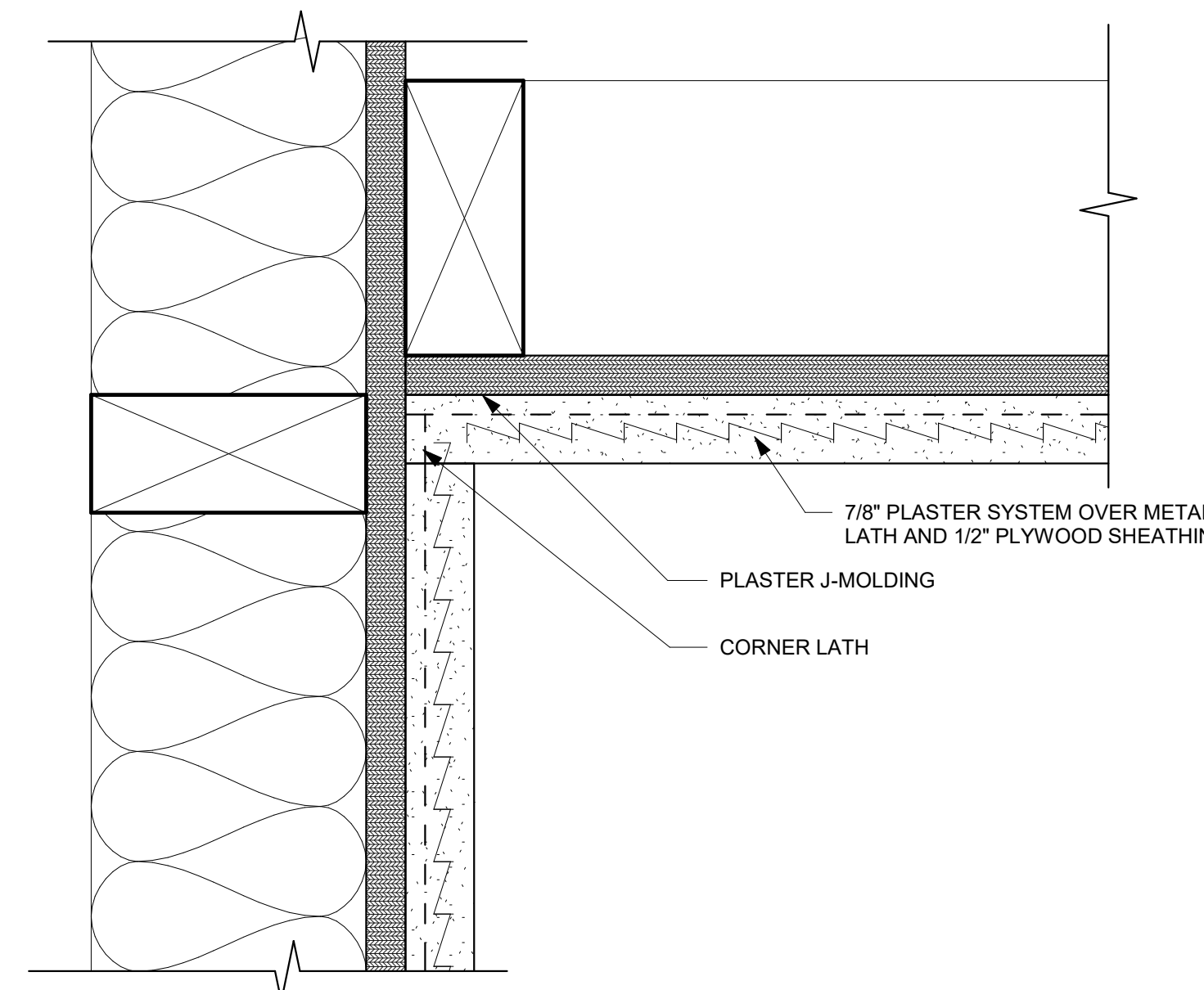
VENT SCREED 3" = 1'-0" 7



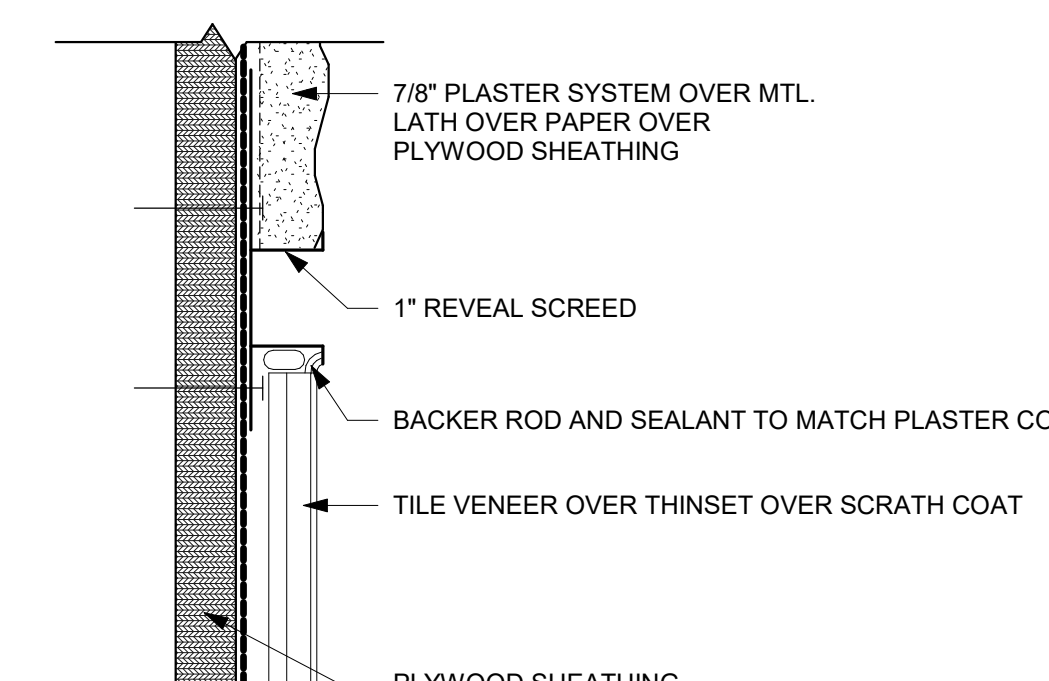
PLASTER/TILE JOINT 6" = 1'-0" 8



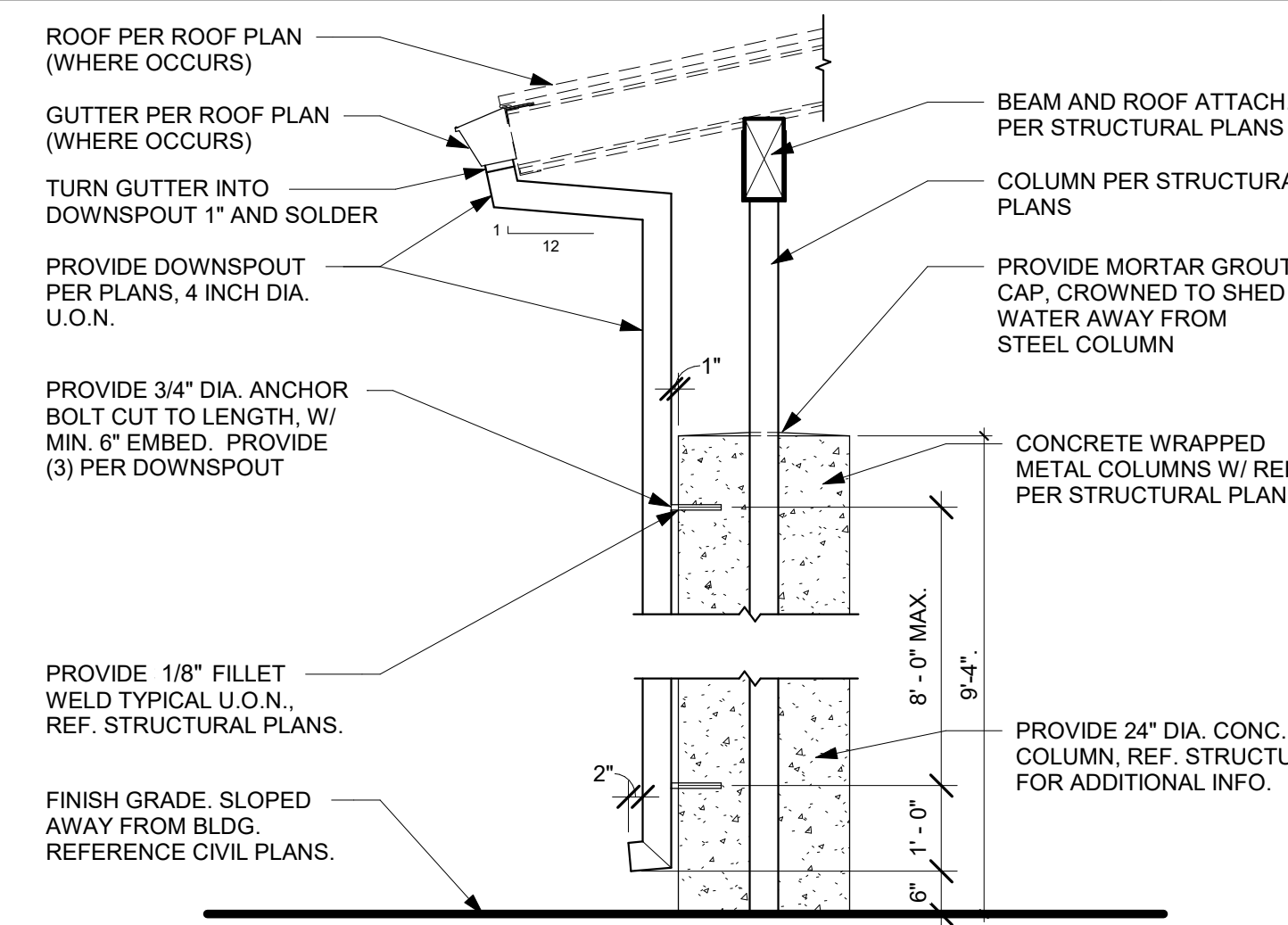
ALUMINUM LETTER ATTACHMENT 1 1/2" = 1'-0" 9



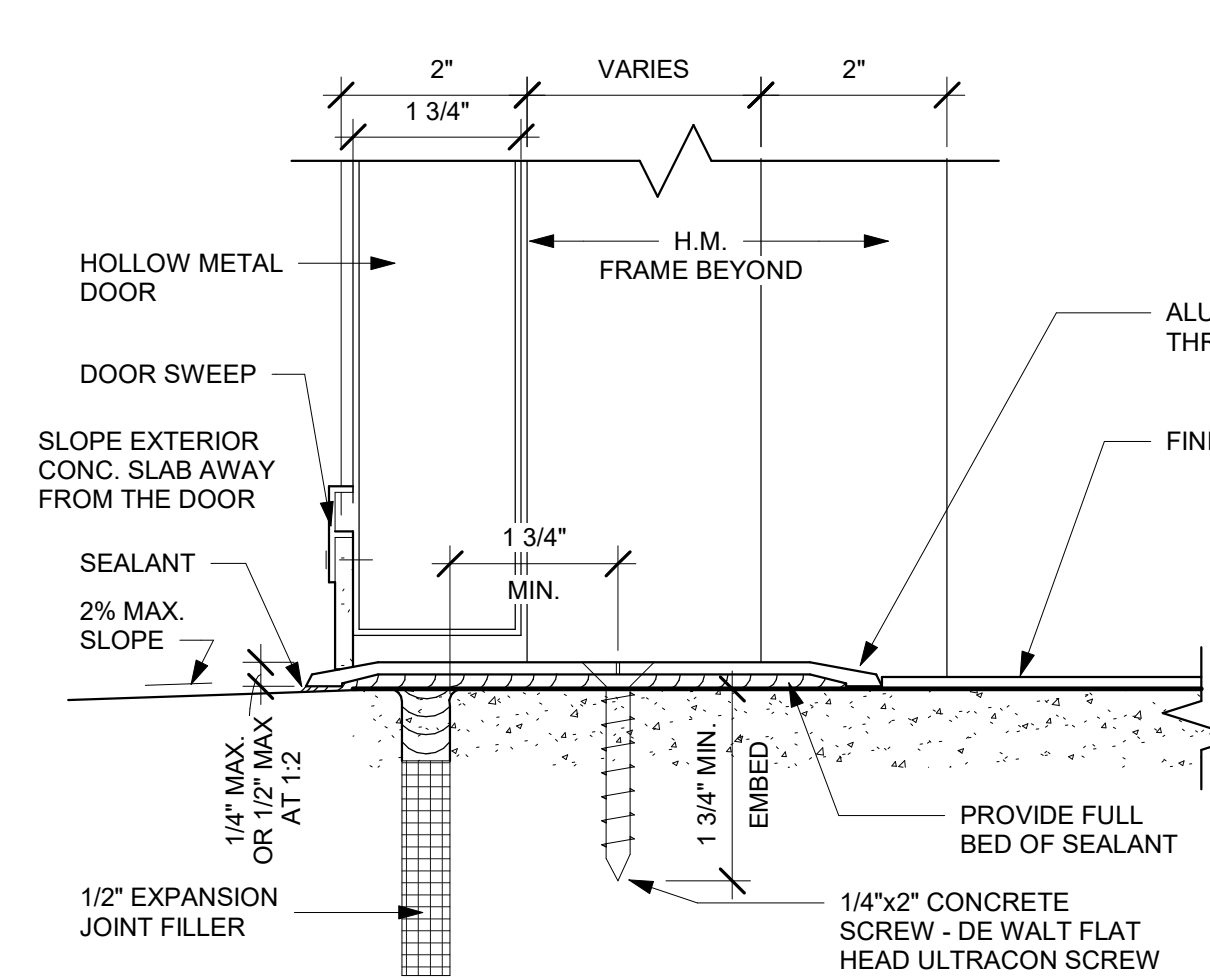
TYP. PLASTERED INSIDE CORNER 6" = 1'-0" 10



PLASTER TO TILE TRANSITION 6" = 1'-0" 11



CONC. COLUMN W/ DOWNSPOUT DETAIL 1/2" = 1'-0" 13



EXTERIOR DOOR THRESHOLD 6" = 1'-0" 15

- GENERAL NOTES
 1) PREP / CLEAN ALL GALV. METAL PRIOR TO PAINTING
 2) ALL STEEL MATERIAL TO BE HOT DIPPED GALVANIZED
 3) PAINT ALL STEEL COMPONENTS
 4) REFERENCE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

KEYNOTES

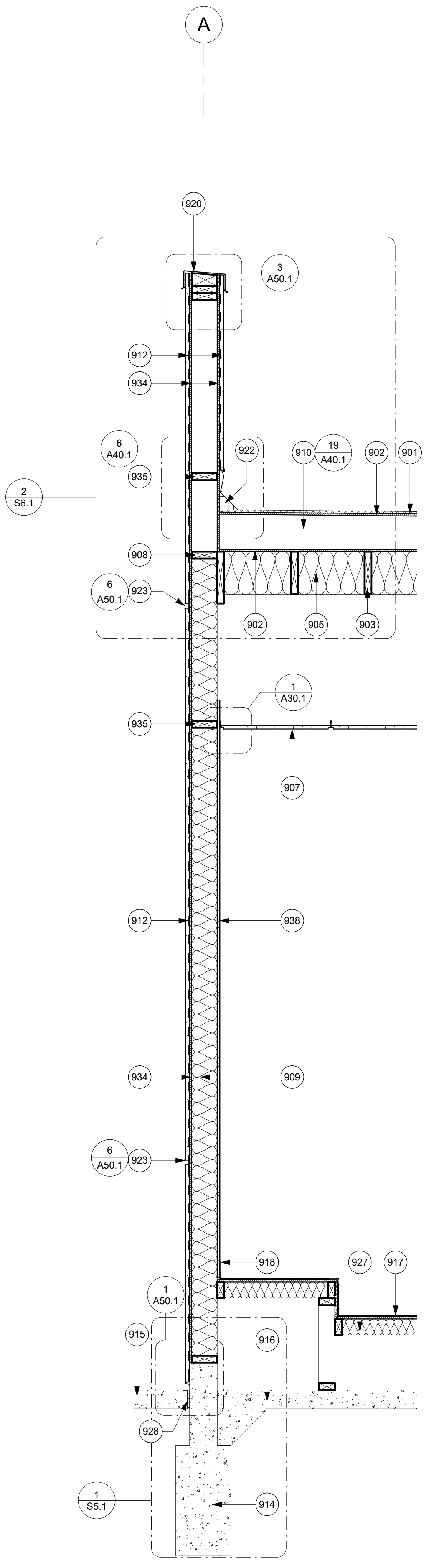
- 901 TPO ROOFING MATERIAL OVER 1/2" RECOVERY BOARD PER SPECIFICATION
- 902 PLYWOOD ROOF DECK PER STRUCTURAL
- 903 2X ROOF JOIST PER STRUCTURAL
- 904 BEAM PER STRUCTURAL
- 905 R=30 BATT INSULATION- ROOF, TYP.
- 906 5/8" GYPSUM BOARD CEILING
- 907 SUSPENDED ACOUSTICAL CEILING SYSTEM
- 908 2X FIRE BLOCKING AT CEILING
- 909 R=19 BATT INSULATION- WALLS, TYP.
- 910 ROOF CRICKET
- 912 7/8" LATH AND PLASTER OVER PLYWOOD SHEATHING- THICKNESS TO MATCH ADJACENT SHEAR WALL, SEE STRUCTURAL
- 914 CONCRETE FOUNDATION PER STRUCTURAL
- 915 CONCRETE HARDSCAPE PER CIVIL AND ARCH SITE PLANS
- 916 CONCRETE FLOOR SLAB PER STRUCTURAL
- 917 FINISH FLOOR MATERIAL PER SCHEDULE
- 918 4" BASE MATERIAL PER SCHEDULE
- 920 PREFINISHED METAL PARAPET CAP
- 921 GUTTER SYSTEM
- 922 CANT STRIP
- 923 PLASTER REVEAL
- 925 24" DIAMETER CONCRETE COLUMN SURROUND, SEE DETAIL REFD ON PLAN
- 927 RAISED READING STEP
- 928 1/2" EXPANSION JOINT FILLER
- 931 STRUCTURAL COLUMNS, PAINTED
- 934 1/2" PLYWOOD SHEATHING
- 935 2X BLOCKING
- 937 CEILING FRAMING - SEE TYP. DTL. REF. ON PLAN
- 938 5/8" GYPSUM BOARD
- 939 PREFINISHED METAL SOFFIT PANELING
- 940 STANDING SEAM METAL ROOF, SEE SPECS FOR ADDITIONAL INFORMATION
- 943 SHEET METAL SOFFIT VENT

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 DIV. OF THE STATE ARCHITECT
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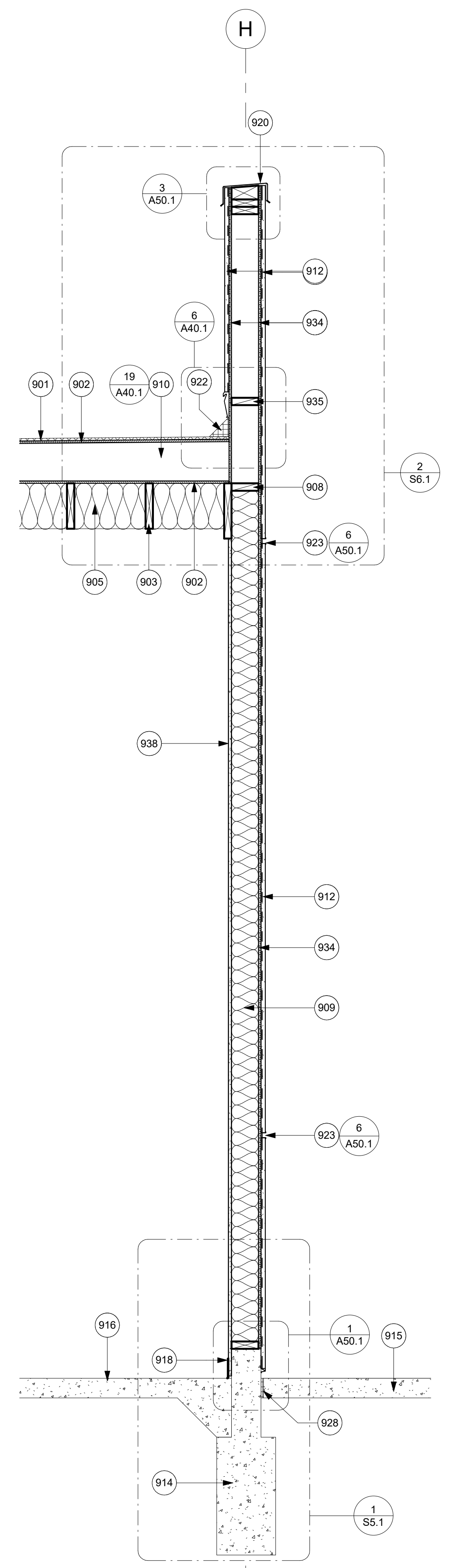
Revision	Date

WALL SECTION NOTES

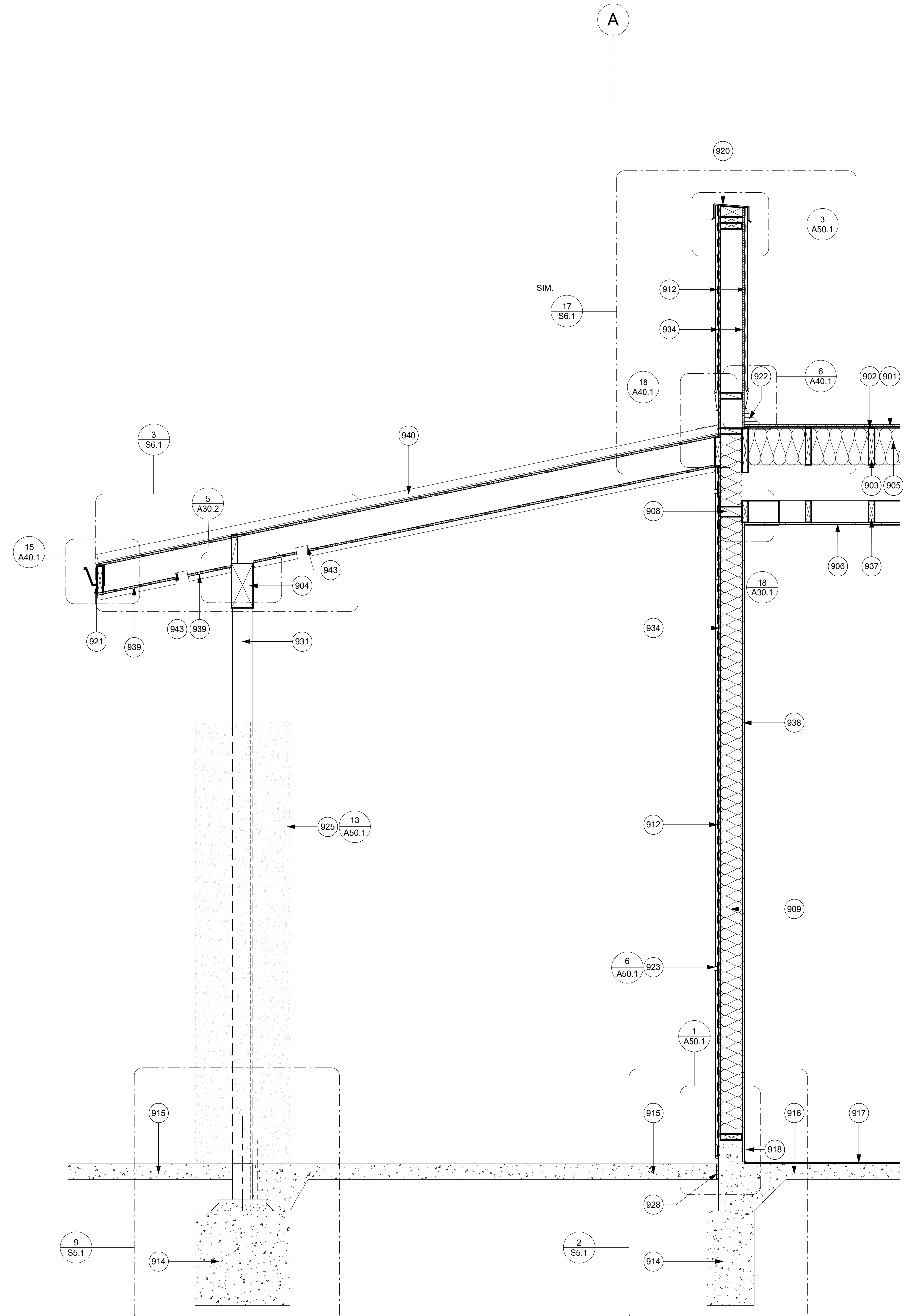
- GYPSUM WALL BOARD SHALL EXTEND TO UNDERSIDE OF ROOF JOISTS FOR ACOUSTIC PURPOSES WHERE SEPARATE ROOMS OCCUR ON EACH SIDE OF WALL. AT ALL OTHER INSTANCES, GYPSUM WALL BOARD SHALL EXTEND 6" ABOVE ACOUSTICAL CEILING OR TO BOTTOM OF CEILING JOISTS AT GYP. BD. CEILING.



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

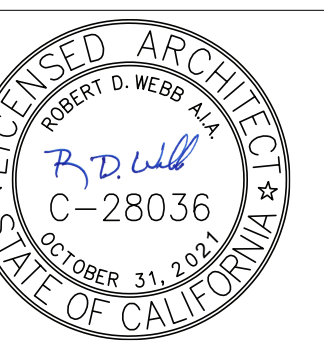


WALL SECTION 2 3/4" = 1'-0" 2



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

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PROSPECT AVENUE ELEM SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

WALL SECTIONS

Drawn: RI
 Checked: RDW
 Date: OCT. 14, 2019
 Job: SSD-PA-03

A60.1

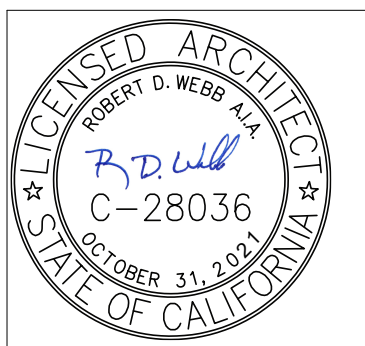
KEYNOTES

- 901 TPO ROOFING MATERIAL OVER 1/2" RECOVERY BOARD PER SPECIFICATION
- 902 PLYWOOD ROOF DECK PER STRUCTURAL
- 903 2X ROOF JOIST PER STRUCTURAL
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- 905 R=30 BATT INSULATION- ROOF, TYP.
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- 916 CONCRETE FLOOR SLAB PER STRUCTURAL
- 917 FINISH FLOOR MATERIAL PER SCHEDULE
- 920 PREFINISHED METAL PARAPET CAP
- 922 CANT STRIP
- 926 HEADER PER STRUCTURAL
- 928 1/2" EXPANSION JOINT FILLER
- 933 OPERABLE WALL PER SCHEDULE
- 934 1/2" PLYWOOD SHEATHING
- 935 2X BLOCKING
- 937 CEILING FRAMING - SEE TYP. DTL. REF. ON PLAN
- 938 5/8" GYPSUM BOARD
- 939 PREFINISHED METAL SOFFIT PANELING
- 940 STANDING SEAM METAL ROOF, SEE SPECS FOR ADDITIONAL INFORMATION

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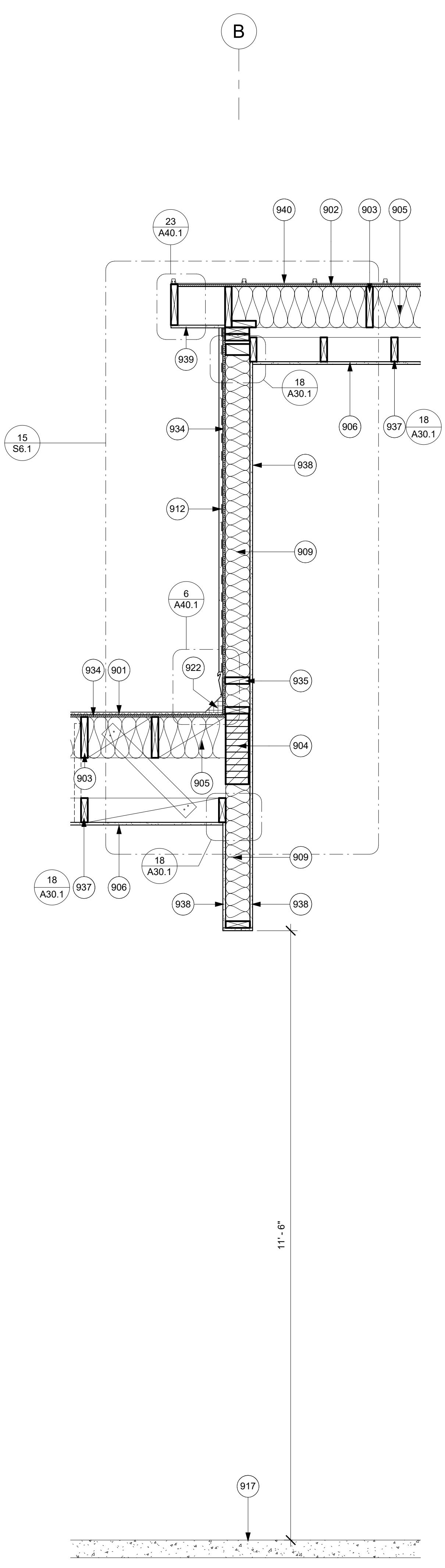
WALL SECTIONS

Drawn: RI
 Checked: RDW
 Date: OCT. 14, 2019
 Job: SSD-PA-03

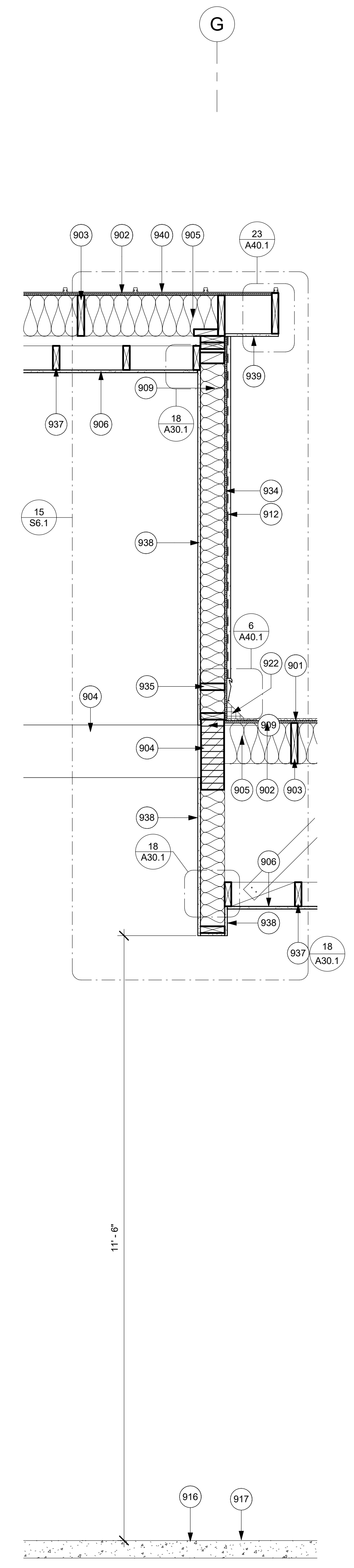
A60.2

WALL SECTION NOTES

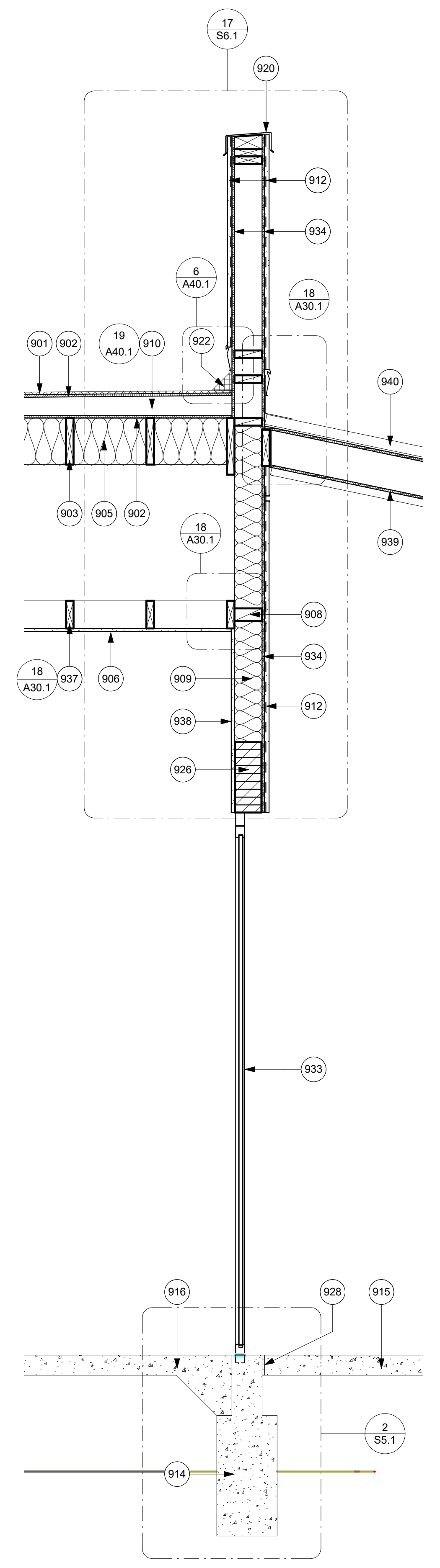
1. GYPSUM WALL BOARD SHALL EXTEND TO UNDERSIDE OF ROOF JOISTS FOR ACOUSTIC PURPOSES WHERE SEPARATE ROOMS OCCUR ON EACH SIDE OF WALL. AT ALL OTHER INSTANCES, GYPSUM WALL BOARD SHALL EXTEND 6" ABOVE ACOUSTICAL CEILING OR TO BOTTOM OF CEILING JOISTS AT GYP. BD. CEILING.



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



WALL SECTION 5 3/4" = 1'-0" 2



WALL SECTION 6 3/4" = 1'-0" 3

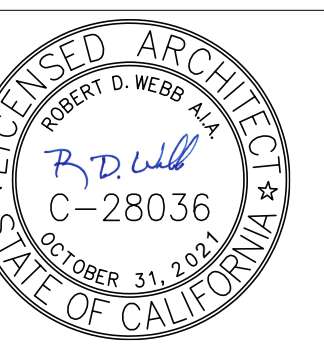
KEYNOTES

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- 912 7/8" LATH AND PLASTER OVER PLYWOOD SHEATHING- THICKNESS TO MATCH ADJACENT SHEAR WALL, SEE STRUCTURAL
- 914 CONCRETE FOUNDATION PER STRUCTURAL
- 915 CONCRETE HARDSCAPE PER CIVIL AND ARCH SITE PLANS
- 916 CONCRETE FLOOR SLAB PER STRUCTURAL
- 918 4" BASE MATERIAL PER SCHEDULE
- 920 PREFINISHED METAL PARAPET CAP
- 921 GUTTER SYSTEM
- 922 CANT STRIP
- 923 PLASTER REVEAL
- 925 24" DIAMETER CONCRETE COLUMN SURROUND, SEE DETAIL REF'D ON PLAN
- 928 1/2" EXPANSION JOINT FILLER
- 931 STRUCTURAL COLUMNS, PAINTED
- 934 1/2" PLYWOOD SHEATHING
- 935 2X BLOCKING
- 937 CEILING FRAMING - SEE TYP. DTL. REF. ON PLAN
- 938 5/8" GYPSUM BOARD
- 939 PREFINISHED METAL SOFFIT PANELING
- 940 STANDING SEAM METAL ROOF, SEE SPECS FOR ADDITIONAL INFORMATION
- 941 PAINTED METAL DOWNSPOUT
- 943 SHEET METAL SOFFIT VENT

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-118742 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 02.05.20

Revision	Date

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PROSPECT AVENUE ELEM SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

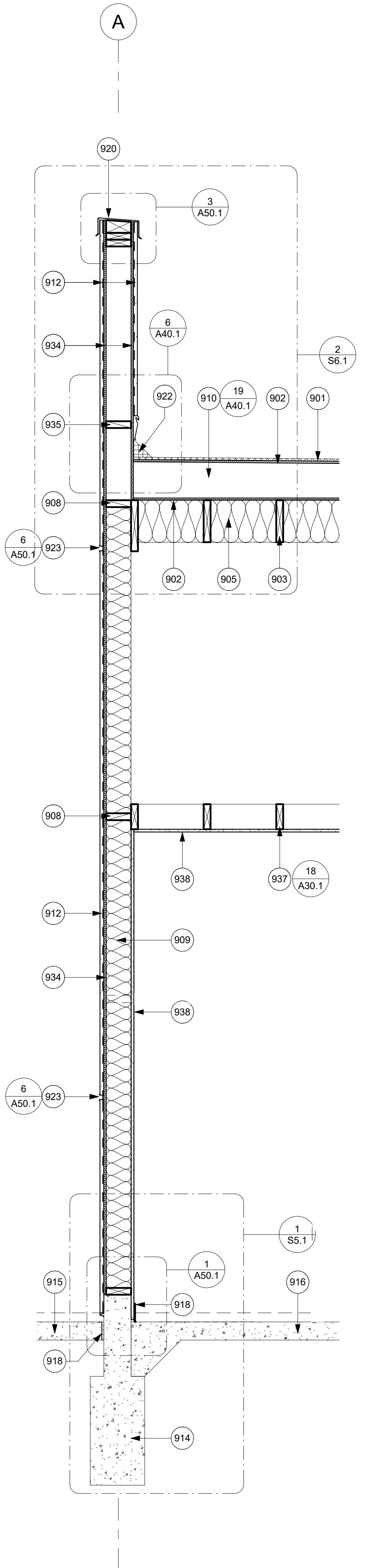
WALL SECTIONS

Drawn: RI
 Checked: RDW
 Date: OCT. 14, 2019
 Job: SSD-PA-03

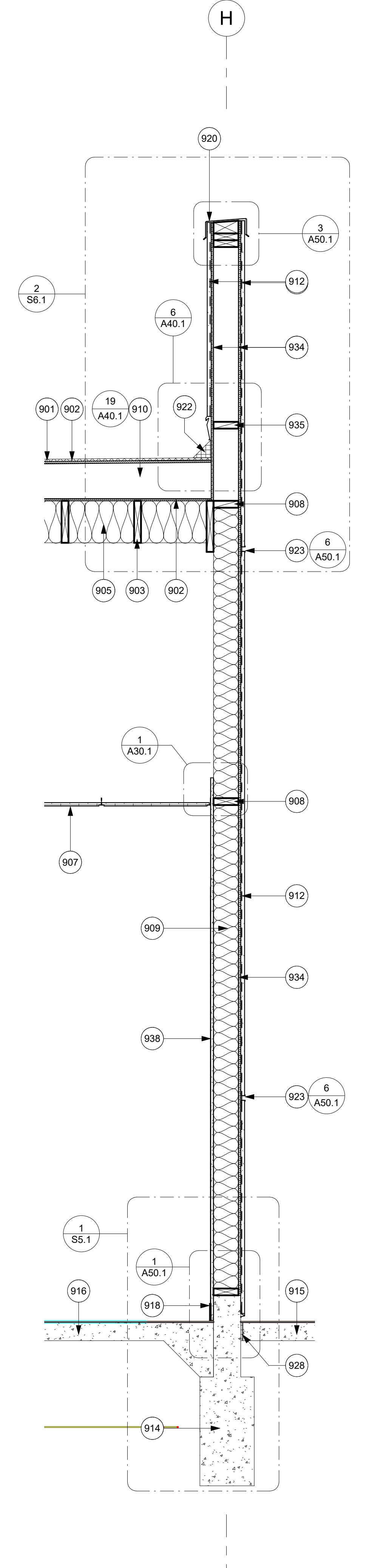
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WALL SECTION NOTES

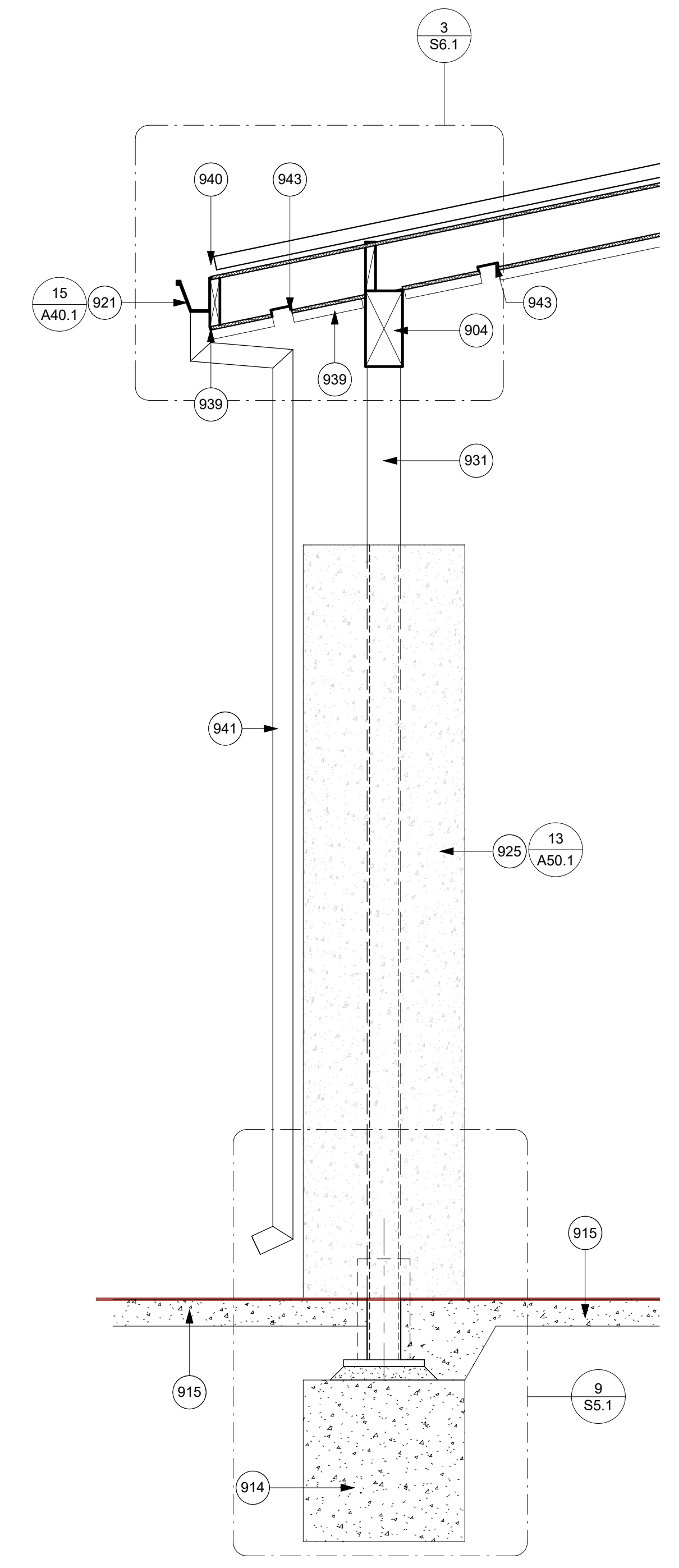
1. GYPSUM WALL BOARD SHALL EXTEND TO UNDERSIDE OF ROOF JOISTS FOR ACOUSTIC PURPOSES WHERE SEPARATE ROOMS OCCUR ON EACH SIDE OF WALL. AT ALL OTHER INSTANCES, GYPSUM WALL BOARD SHALL EXTEND 6" ABOVE ACOUSTICAL CEILING OR TO BOTTOM OF CEILING JOISTS AT GYP. BD. CEILING.



WALL SECTION 7 3/4" = 1'-0" 1



WALL SECTION 8 3/4" = 1'-0" 2



WALL SECTION 9 3/4" = 1'-0" 3

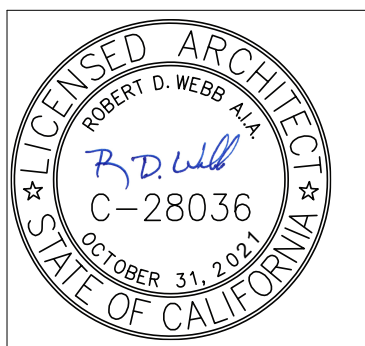
KEYNOTES

- 901 TPO ROOFING MATERIAL OVER 1/2" RECOVERY BOARD PER SPECIFICATIONS
- 902 PLYWOOD ROOF DECK PER STRUCTURAL
- 904 BEAM PER STRUCTURAL
- 905 R-30 BATT INSULATION- ROOF, TYP.
- 906 5/8" GYPSUM BOARD CEILING
- 907 SUSPENDED ACOUSTICAL CEILING SYSTEM
- 908 2X FIRE BLOCKING AT CEILING
- 909 R-19 BATT INSULATION- WALLS, TYP.
- 910 ROOF CRICKET
- 911 HOLLOW METAL FRAME PER SCHEDULE
- 912 7/8" LATH AND PLASTER OVER PLYWOOD SHEATHING- THICKNESS TO MATCH ADJACENT SHEAR WALL, SEE STRUCTURAL
- 914 CONCRETE FOUNDATION PER STRUCTURAL
- 915 CONCRETE HARDSCAPE PER CIVIL AND ARCH SITE PLANS
- 916 CONCRETE FLOOR SLAB PER STRUCTURAL
- 917 FINISH FLOOR MATERIAL PER SCHEDULE
- 918 4" BASE MATERIAL PER SCHEDULE
- 920 PREFINISHED METAL PARAPET CAP
- 922 CANT STRIP
- 923 PLASTER REVEAL
- 926 HEADER PER STRUCTURAL
- 928 1/2" EXPANSION JOINT FILLER
- 934 1/2" PLYWOOD SHEATHING
- 935 2X BLOCKING
- 936 FLOATING CEILING CLOUD, SEE DETAIL REFERENCED ON SHEET
- 937 CEILING FRAMING - SEE TYP. DTL. REF. ON PLAN
- 938 5/8" GYPSUM BOARD
- 939 PREFINISHED METAL SOFFIT PANELING
- 940 STANDING SEAM METAL ROOF, SEE SPECS FOR ADDITIONAL INFORMATION

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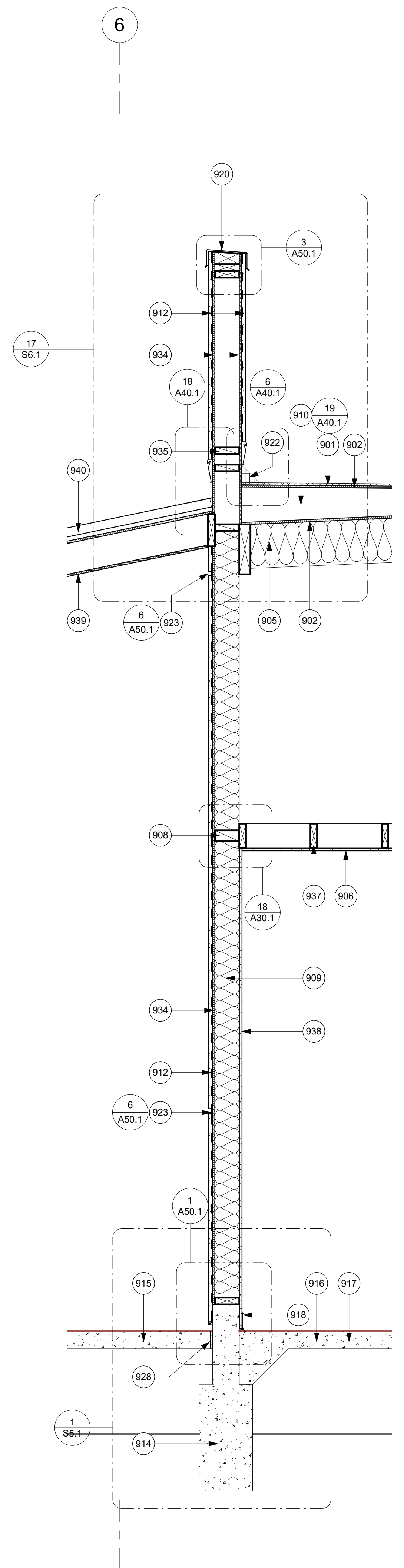
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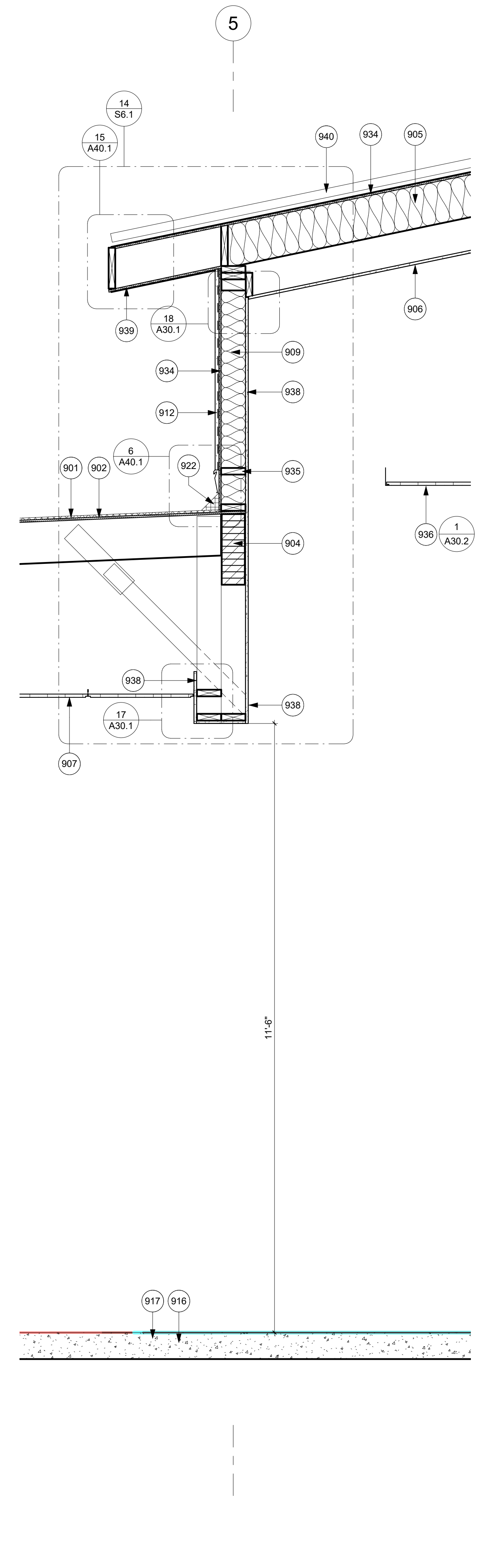
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WALL SECTION NOTES

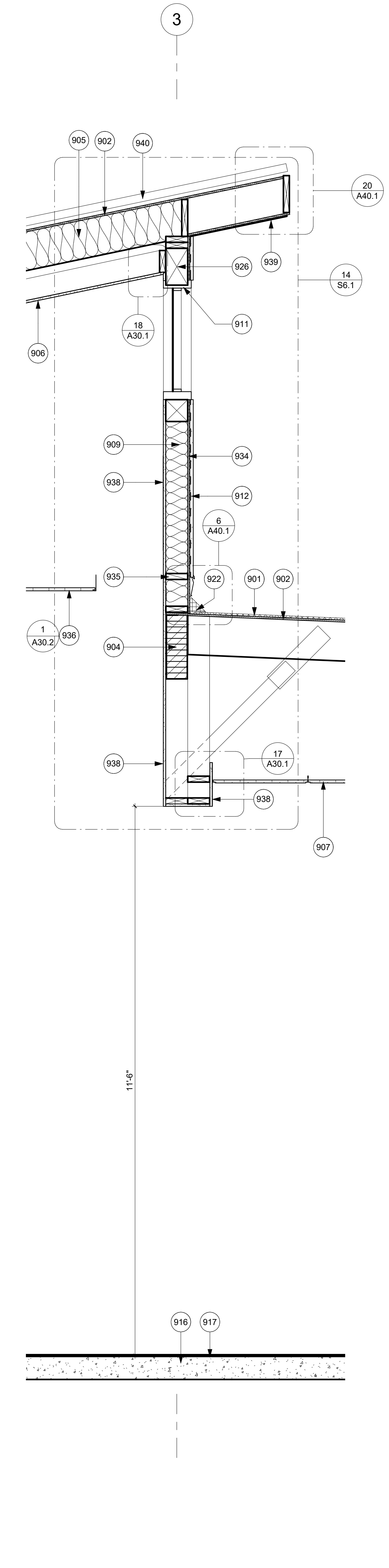
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WALL SECTION 10 3/4" = 1'-0" 1



WALL SECTION 11 3/4" = 1'-0" 2



WALL SECTION 12 3/4" = 1'-0" 3

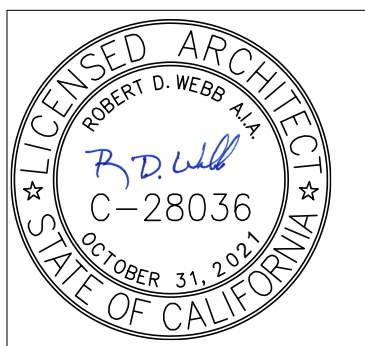
KEYNOTES

- 901 TPO ROOFING MATERIAL OVER 1/2" RECOVERY BOARD PER SPECIFICATION
- 902 PLYWOOD ROOF DECK PER STRUCTURAL
- 904 BEAM PER STRUCTURAL
- 905 R-30 BATT INSULATION- ROOF, TYP.
- 906 5/8" GYPSUM BOARD CEILING
- 907 SUSPENDED ACOUSTICAL CEILING SYSTEM
- 908 2X FIRE BLOCKING AT CEILING
- 909 R-19 BATT INSULATION- WALLS, TYP.
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- 926 HEADER PER STRUCTURAL
- 928 1/2" EXPANSION JOINT FILLER
- 929 CANOPY, SEE STRUCTURAL
- 934 1/2" PLYWOOD SHEATHING
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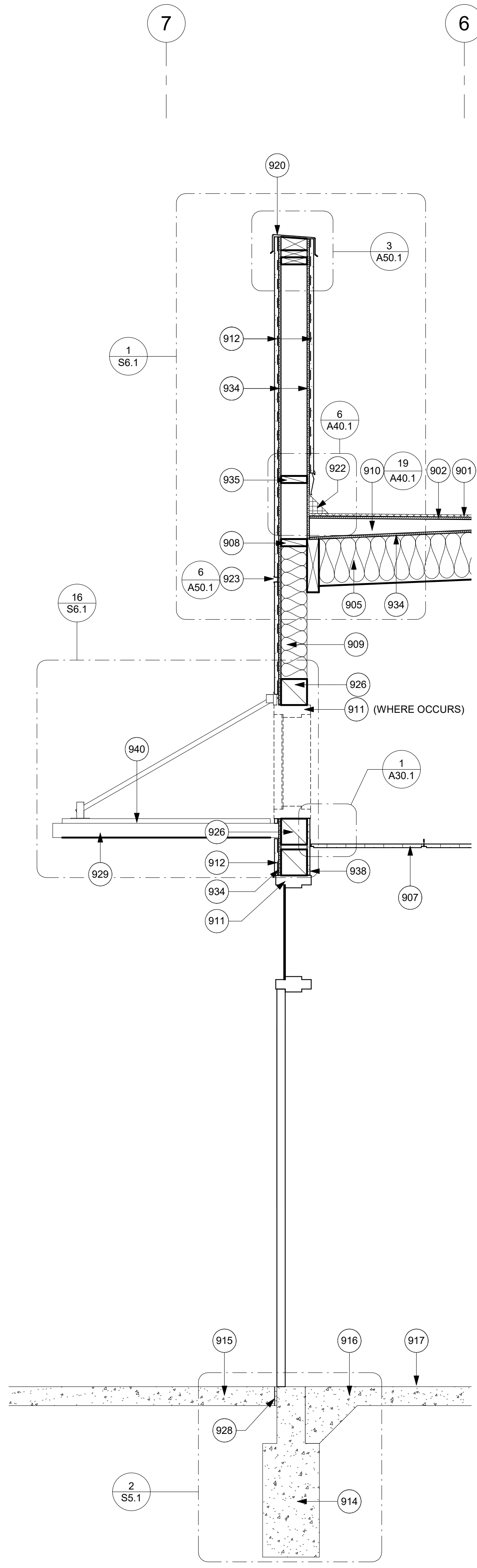
WALL SECTIONS

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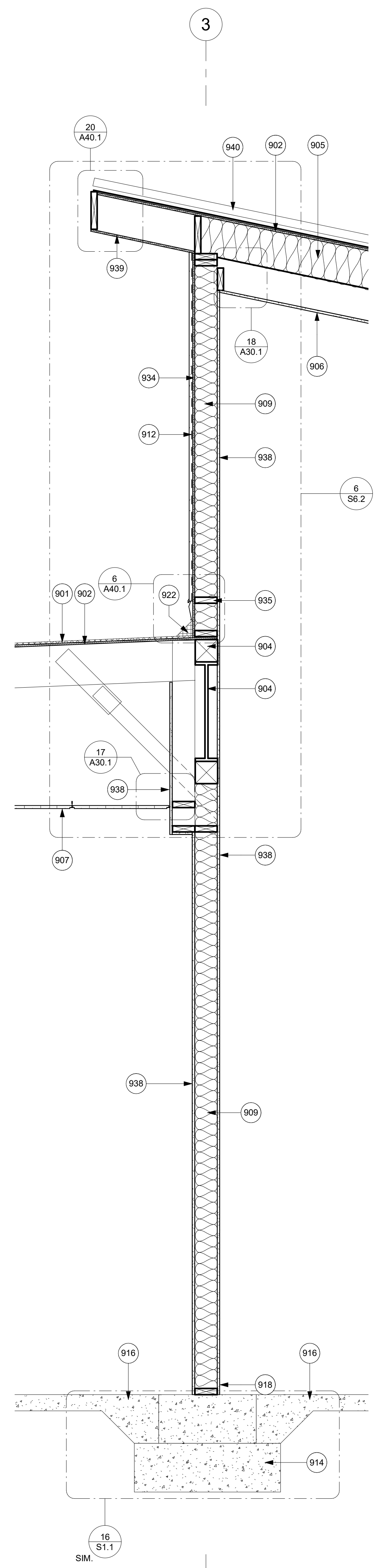
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WALL SECTION NOTES

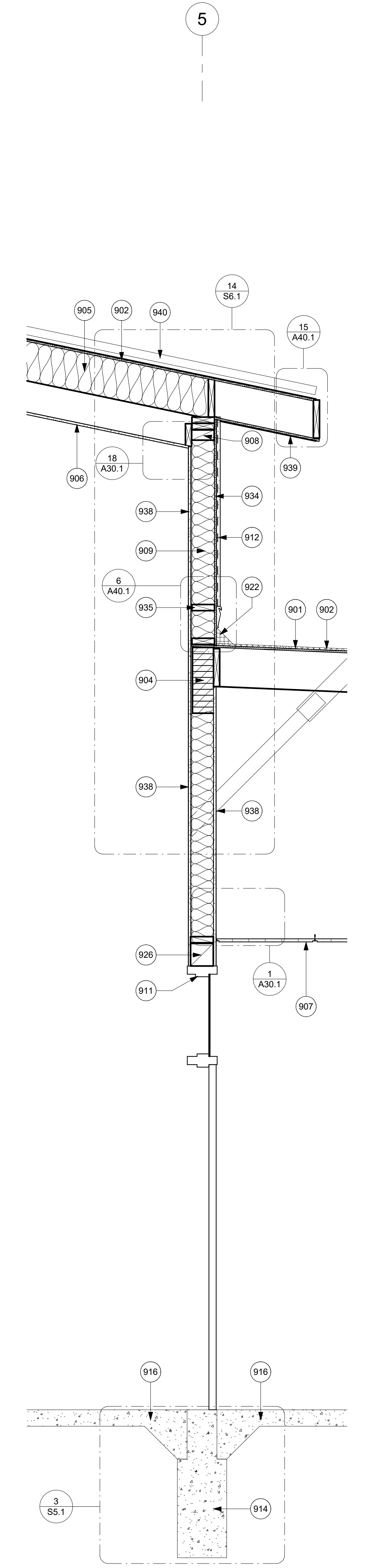
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WALL SECTION 13 3/4" = 1'-0" 1



WALL SECTION 14 3/4" = 1'-0" 2



WALL SECTION 15 3/4" = 1'-0" 3

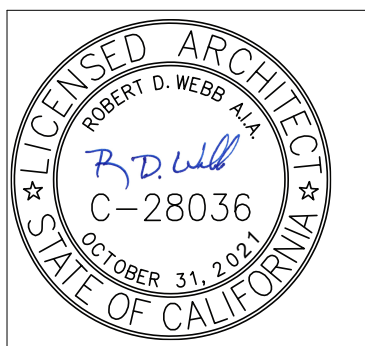
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- 901 TPO ROOFING MATERIAL OVER 1/2" RECOVERY BOARD PER SPECIFICATION
- 902 PLYWOOD ROOF DECK PER STRUCTURAL
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- 908 2X FIRE BLOCKING AT CEILING
- 909 R-19 BATT INSULATION- WALLS, TYP.
- 910 ROOF CRICKET
- 912 7/8" LATH AND PLASTER OVER PLYWOOD SHEATHING- THICKNESS TO MATCH ADJACENT SHEAR WALL. SEE STRUCTURAL
- 914 CONCRETE FOUNDATION PER STRUCTURAL
- 915 CONCRETE HARDSCAPE PER CIVIL AND ARCH SITE PLANS
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- 917 FINISH FLOOR MATERIAL PER SCHEDULE
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- 922 CANT STRIP
- 923 PLASTER REVEAL
- 926 HEADER PER STRUCTURAL
- 928 1/2" EXPANSION JOINT FILLER
- 929 CANTOPY, SEE STRUCTURAL
- 934 1/2" PLYWOOD SHEATHING
- 935 2X BLOCKING
- 936 FLOATING CEILING CLOUD, SEE DETAIL REFERENCED ON SHEET
- 938 5/8" GYPSUM BOARD
- 939 PREFINISHED METAL SOFFIT PANELING
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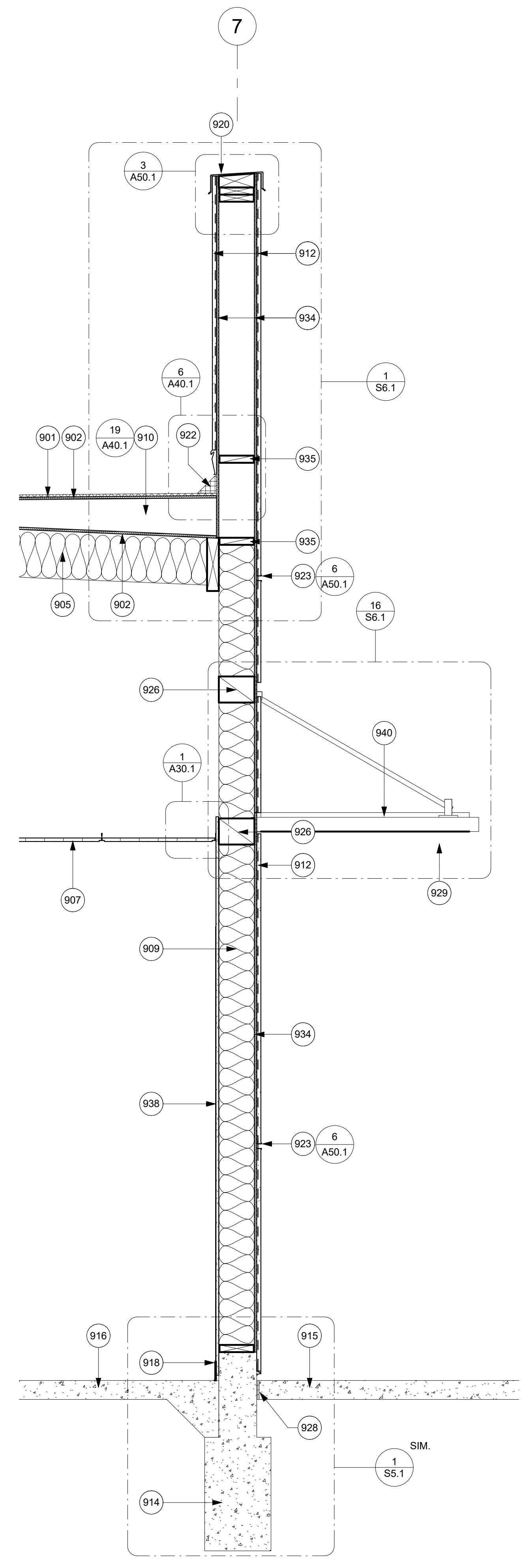
WALL SECTIONS

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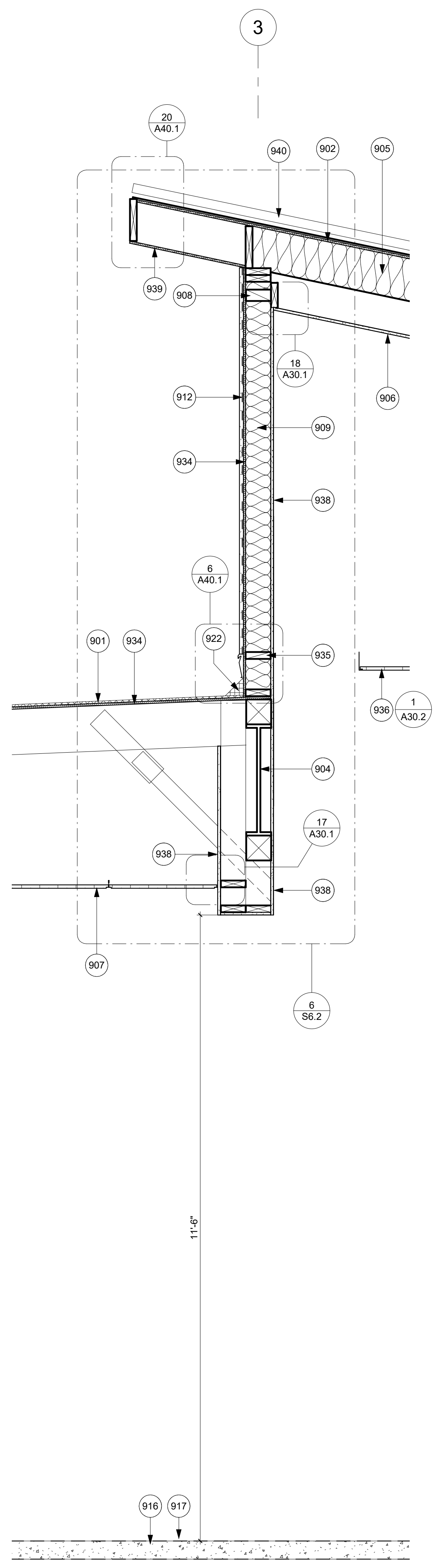
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WALL SECTION NOTES

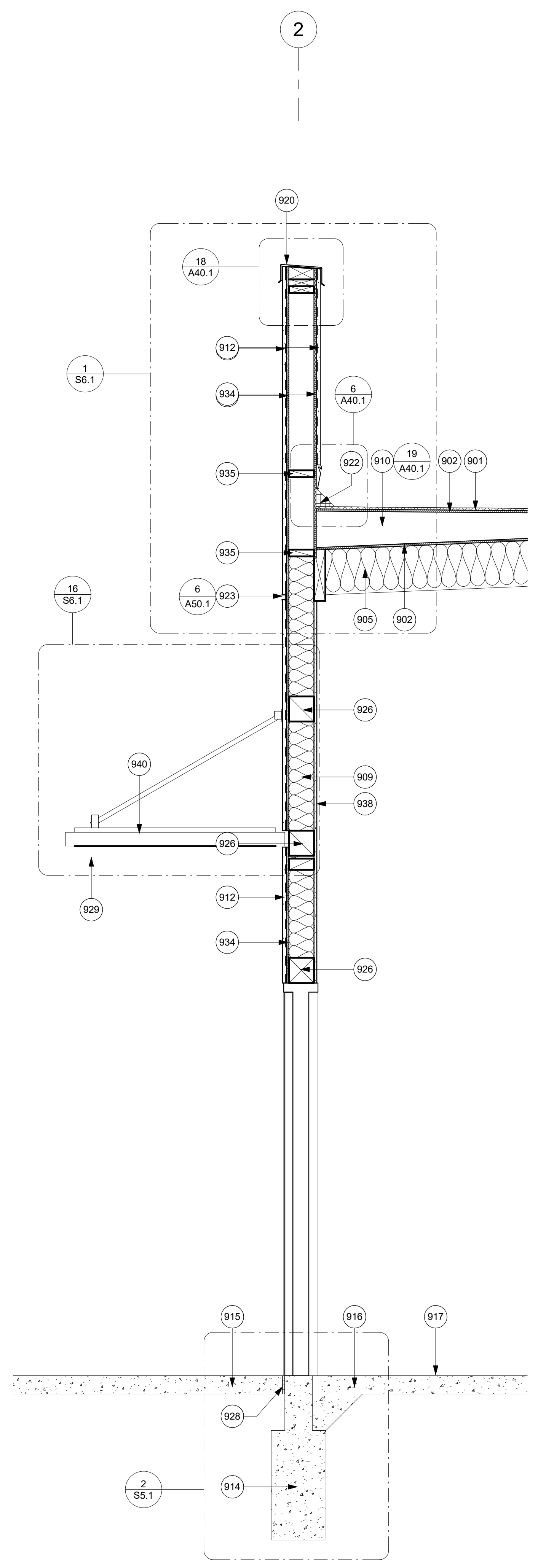
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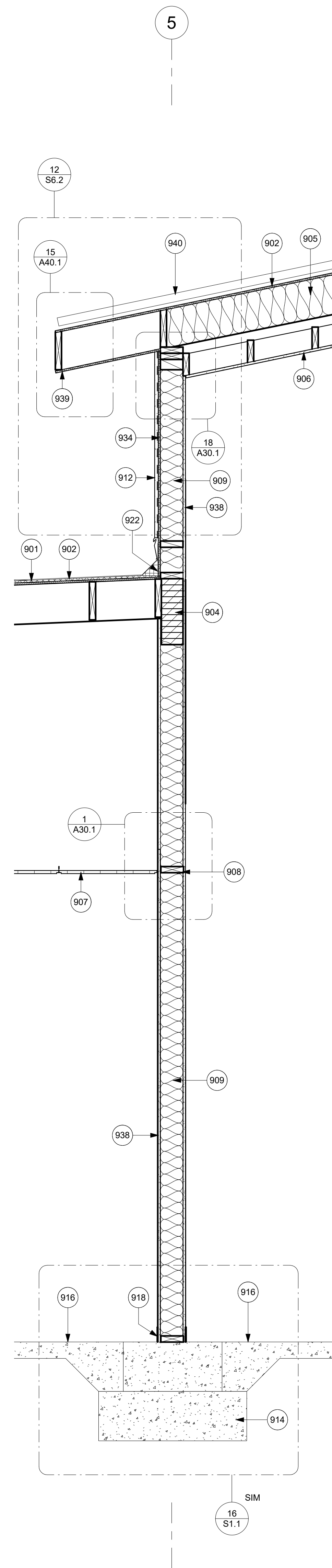
WALL SECTION 16 3/4" = 1'-0" 1



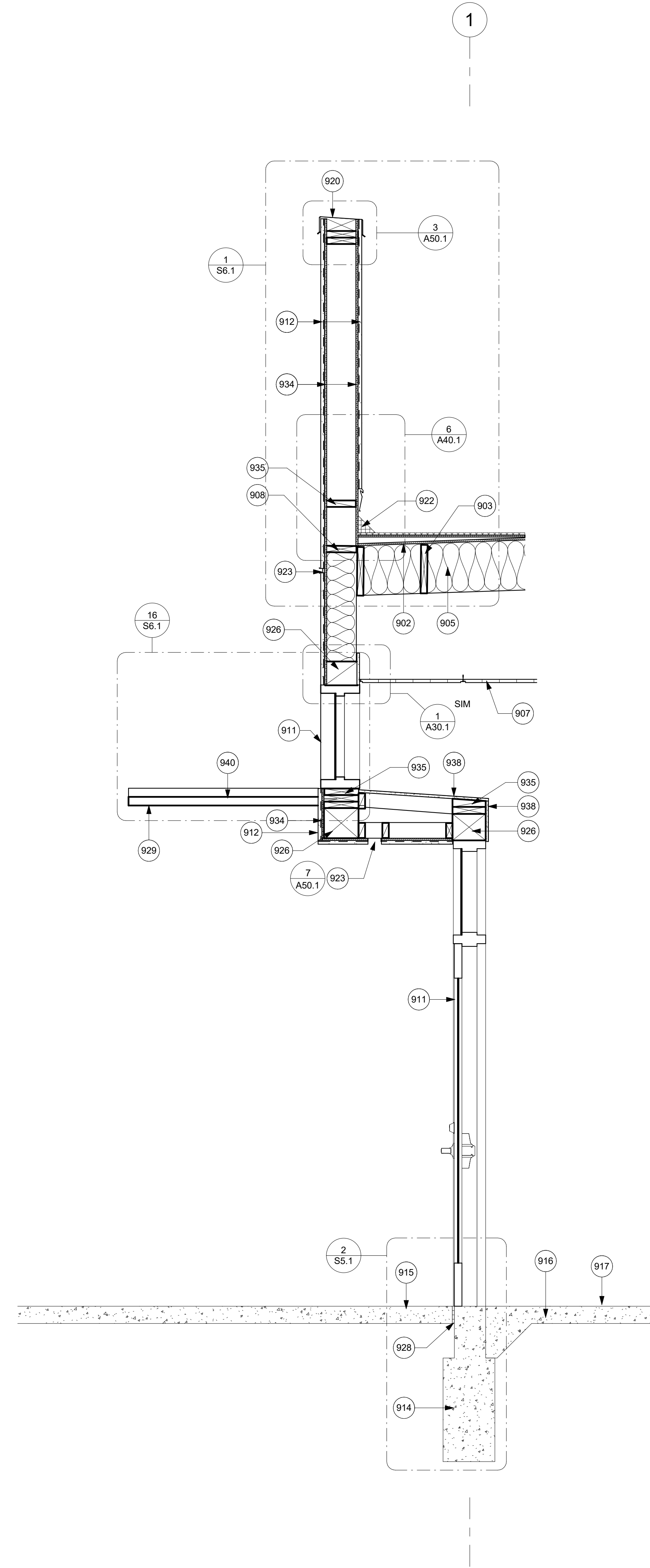
WALL SECTION 17 3/4" = 1'-0" 2



WALL SECTION 18 3/4" = 1'-0" 3



WALL SECTION 19 3/4" = 1'-0" 1



WALL SECTION 20 3/4" = 1'-0" 2

KEYNOTES

- 901 TPO ROOFING MATERIAL OVER 1/2" RECOVERY BOARD PER SPECIFICATION
- 902 PLYWOOD ROOF DECK PER STRUCTURAL
- 903 2X ROOF JOIST PER STRUCTURAL
- 904 BEAM PER STRUCTURAL
- 905 R-30 BATT INSULATION-ROOF, TYP.
- 906 5/8" GYPSUM BOARD CEILING
- 907 SUSPENDED ACOUSTICAL CEILING SYSTEM
- 908 2X FIRE BLOCKING AT CEILING
- 909 R-19 BATT INSULATION-WALLS, TYP.
- 911 HOLLOW METAL FRAME PER SCHEDULE
- 912 7/8" LATH AND PLASTER OVER PLYWOOD SHEATHING- THICKNESS TO MATCH ADJACENT SHEAR WALL, SEE STRUCTURAL
- 914 CONCRETE FOUNDATION PER STRUCTURAL
- 915 CONCRETE HARDSCAPE PER CIVIL AND ARCH SITE PLANS
- 916 CONCRETE FLOOR SLAB PER STRUCTURAL
- 917 FINISH FLOOR MATERIAL PER SCHEDULE
- 918 4" BASE MATERIAL PER SCHEDULE
- 920 PREFINISHED METAL PARAPET CAP
- 922 CANT STRIP
- 923 PLASTER REVEAL
- 926 HEADER PER STRUCTURAL
- 928 1/2" EXPANSION JOINT FILLER
- 929 CANOPY, SEE STRUCTURAL
- 934 1/2" PLYWOOD SHEATHING
- 935 2X BLOCKING
- 938 5/8" GYPSUM BOARD
- 939 PREFINISHED METAL SOFFIT PANELING
- 940 STANDING SEAM METAL ROOF, SEE SPECS FOR ADDITIONAL INFORMATION

IDENTIFICATION STAMP
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WALL SECTION NOTES

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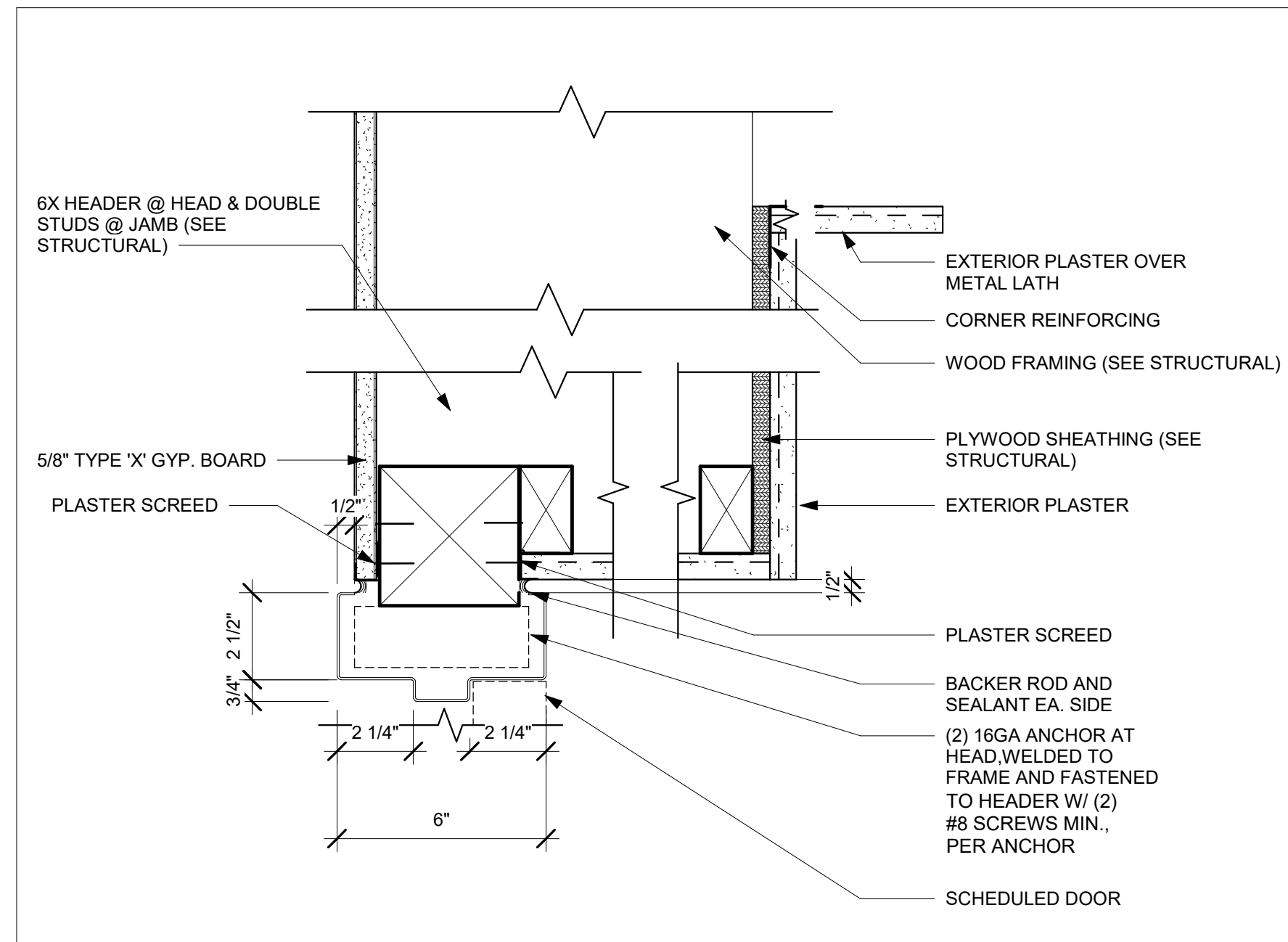
LICENSED ARCHITECT
 ROBERT D. WEBB
 C-28036
 EXPIRES 31.12.2019
 STATE OF CALIFORNIA

PROSPECT AVENUE ELEM SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

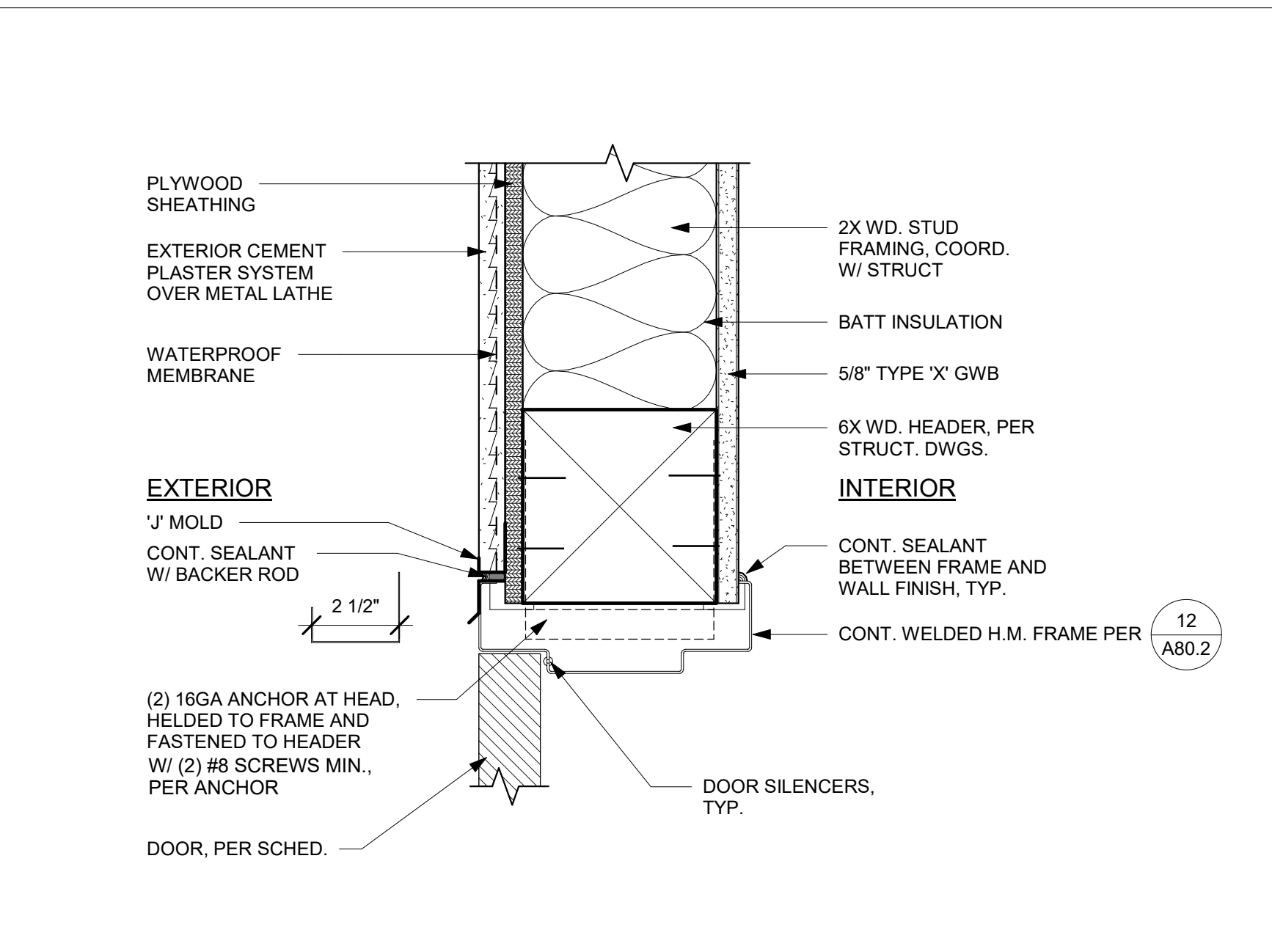
WALL SECTIONS

Drawn:
 Author:
 Checked:
 Checker:
 Date:
 OCT. 14, 2019
 Job:
 SSD-PA-03

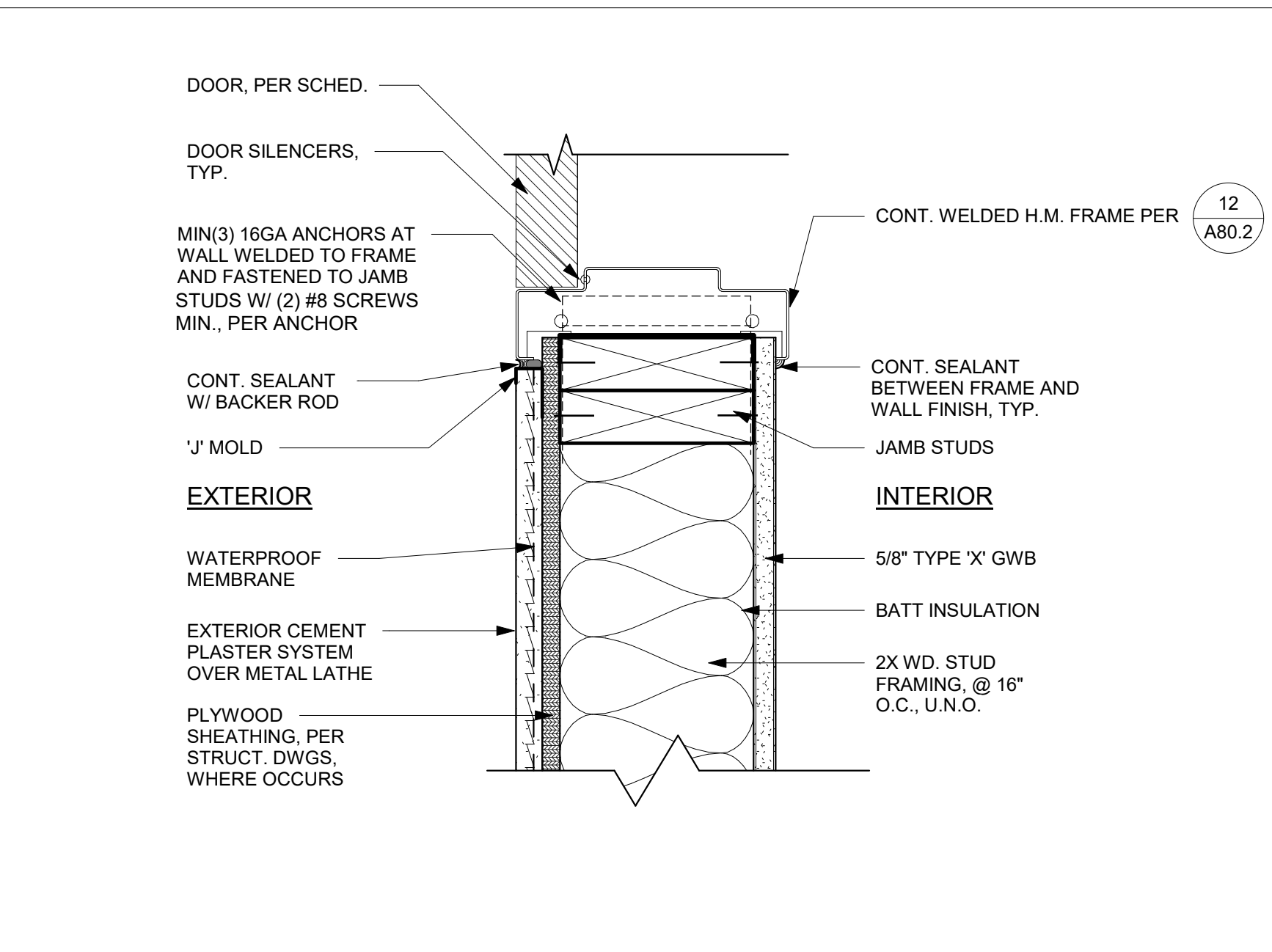
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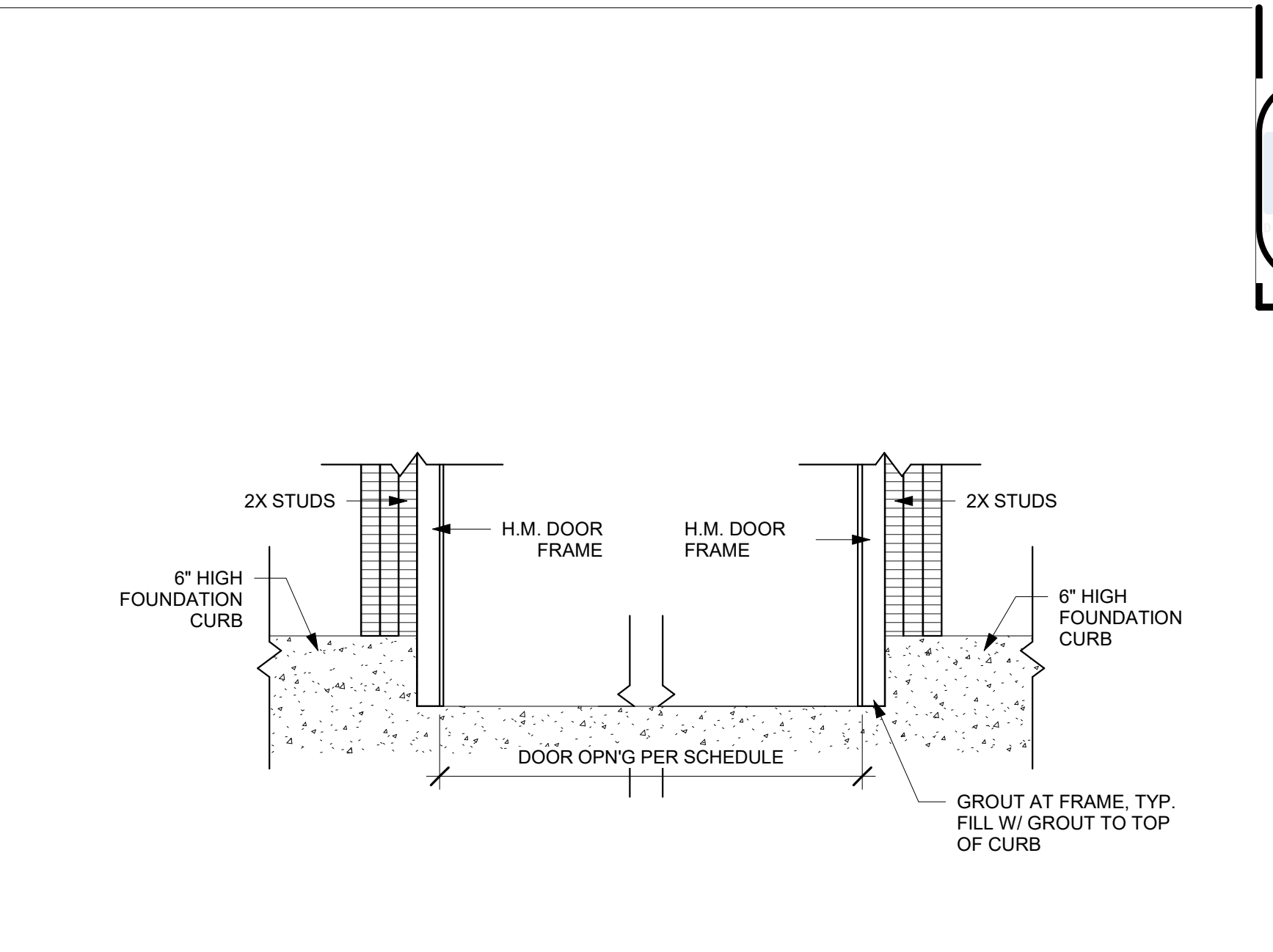
EXTERIOR DOOR HEAD @SOFFIT 3" = 1'-0" 1



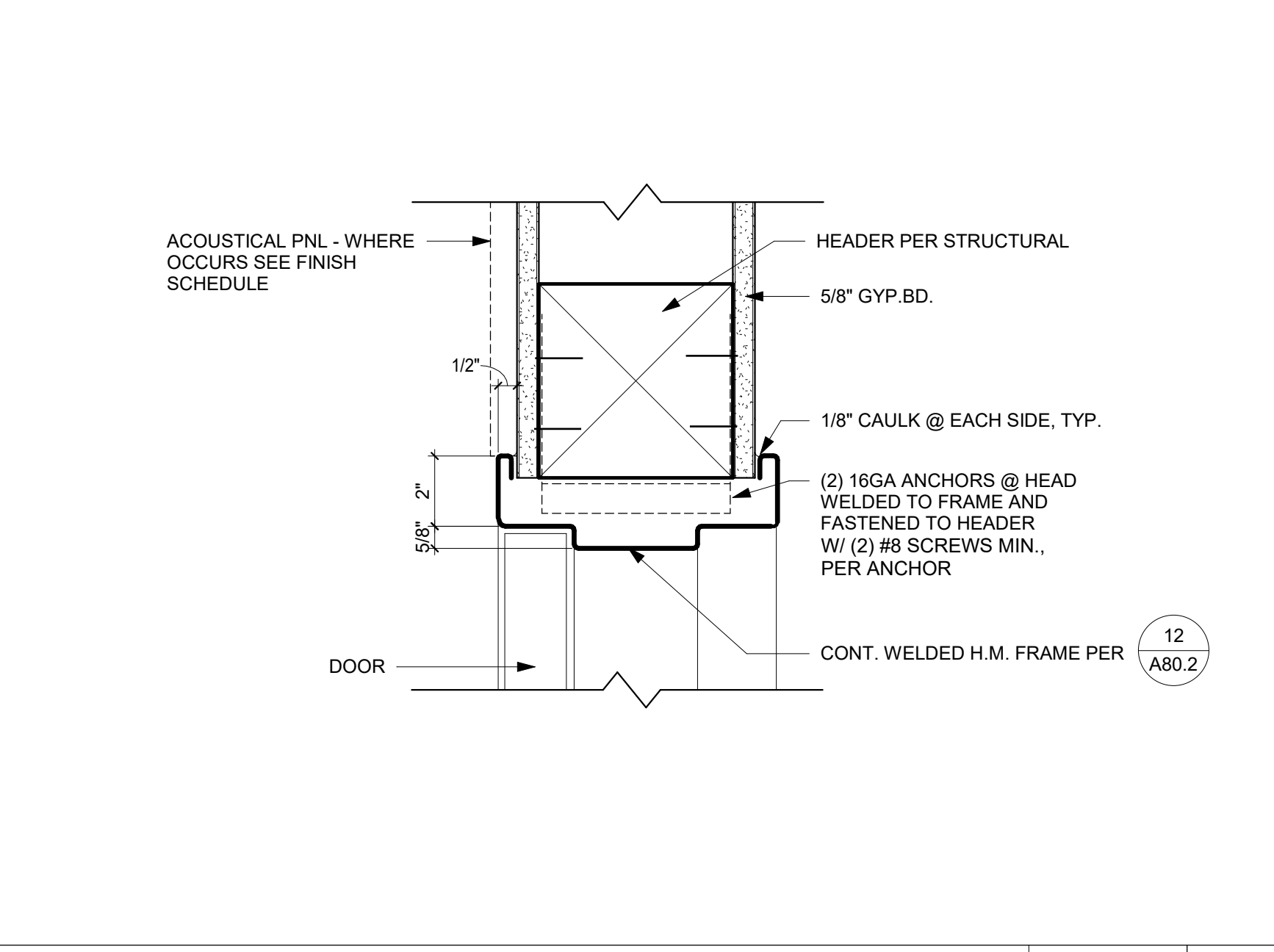
EXT. H.M. DOOR - HEAD 3" = 1'-0" 2



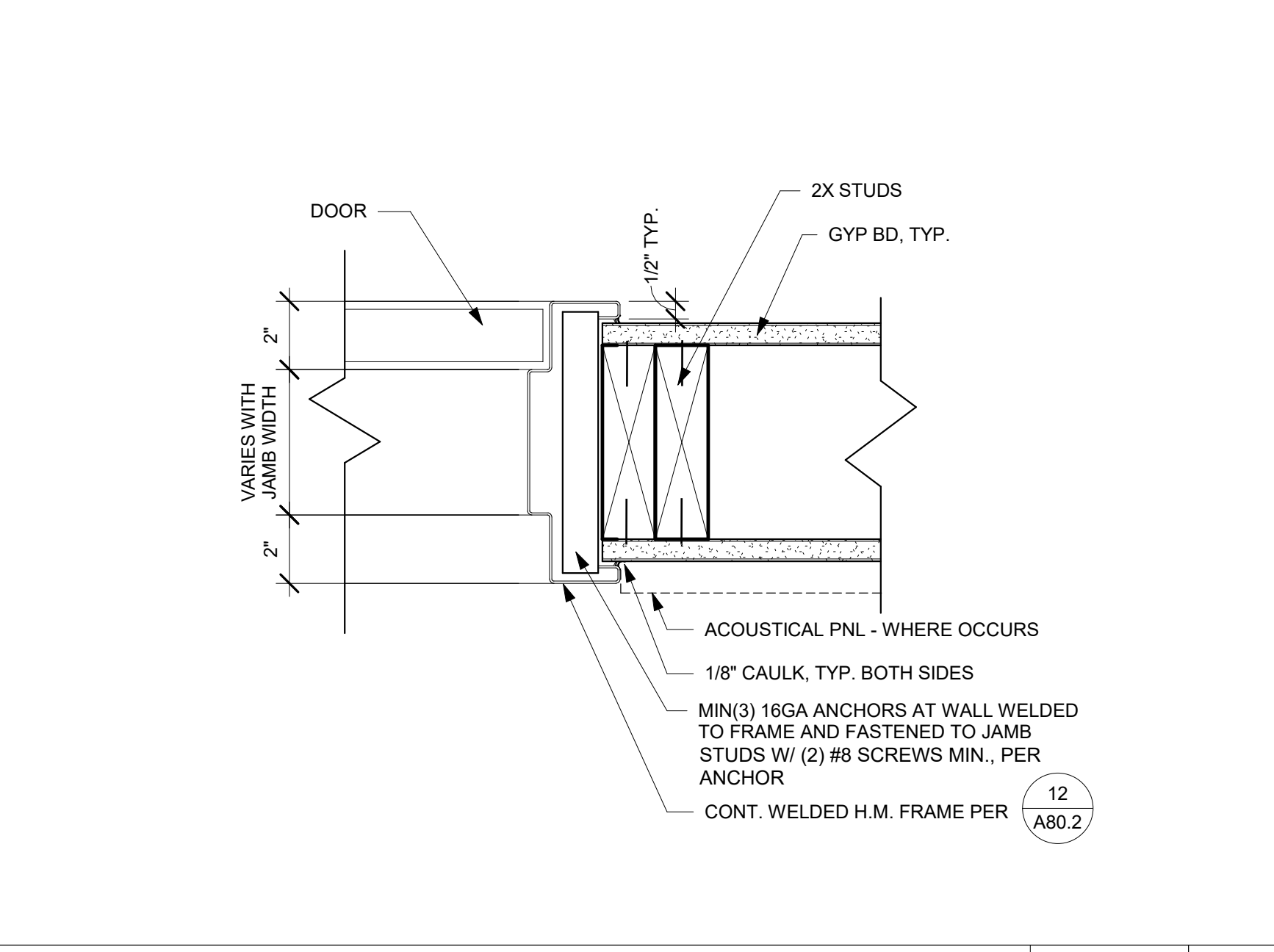
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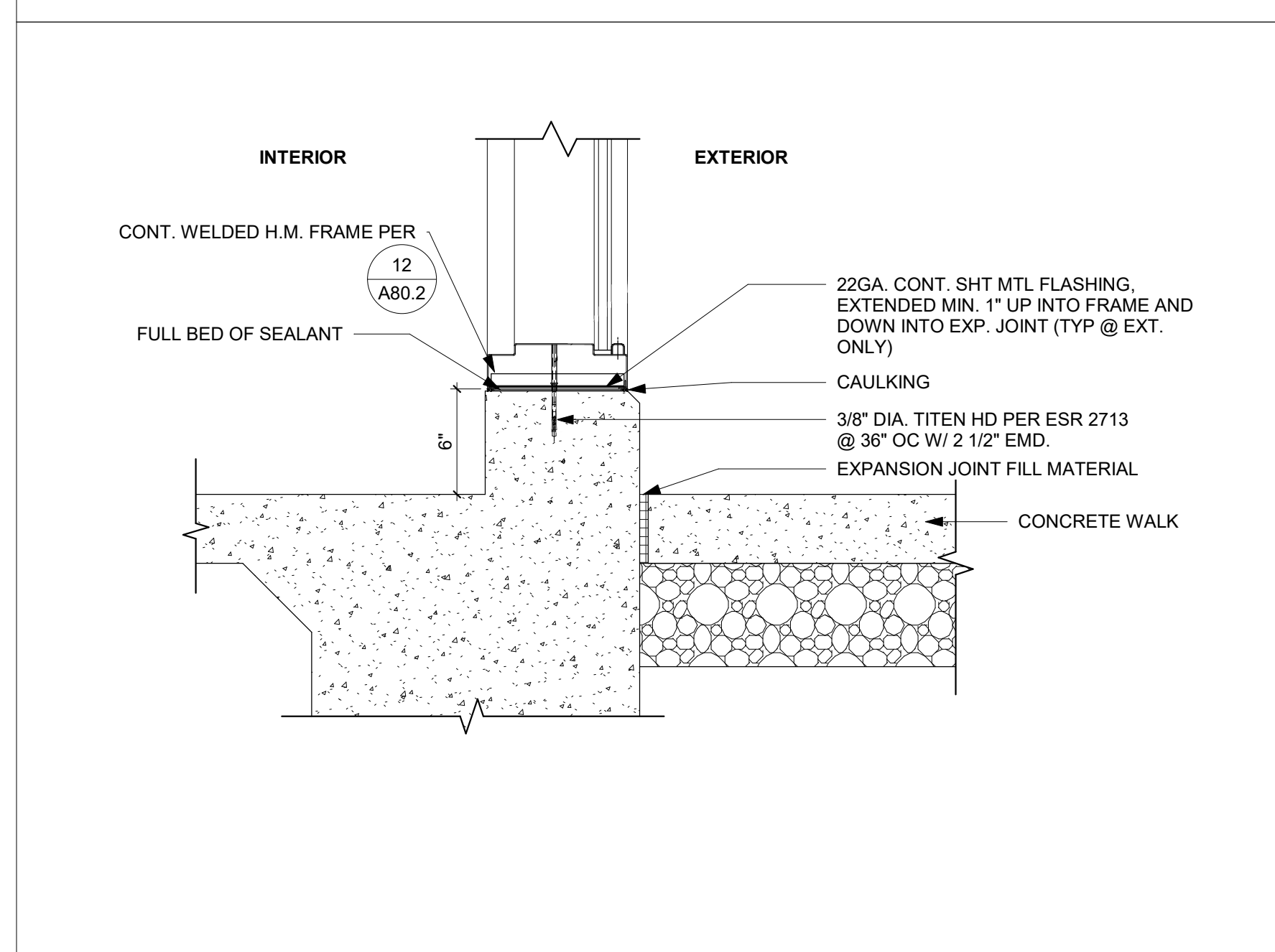
DOOR JAMB ELEVATION 1" = 1'-0" 4



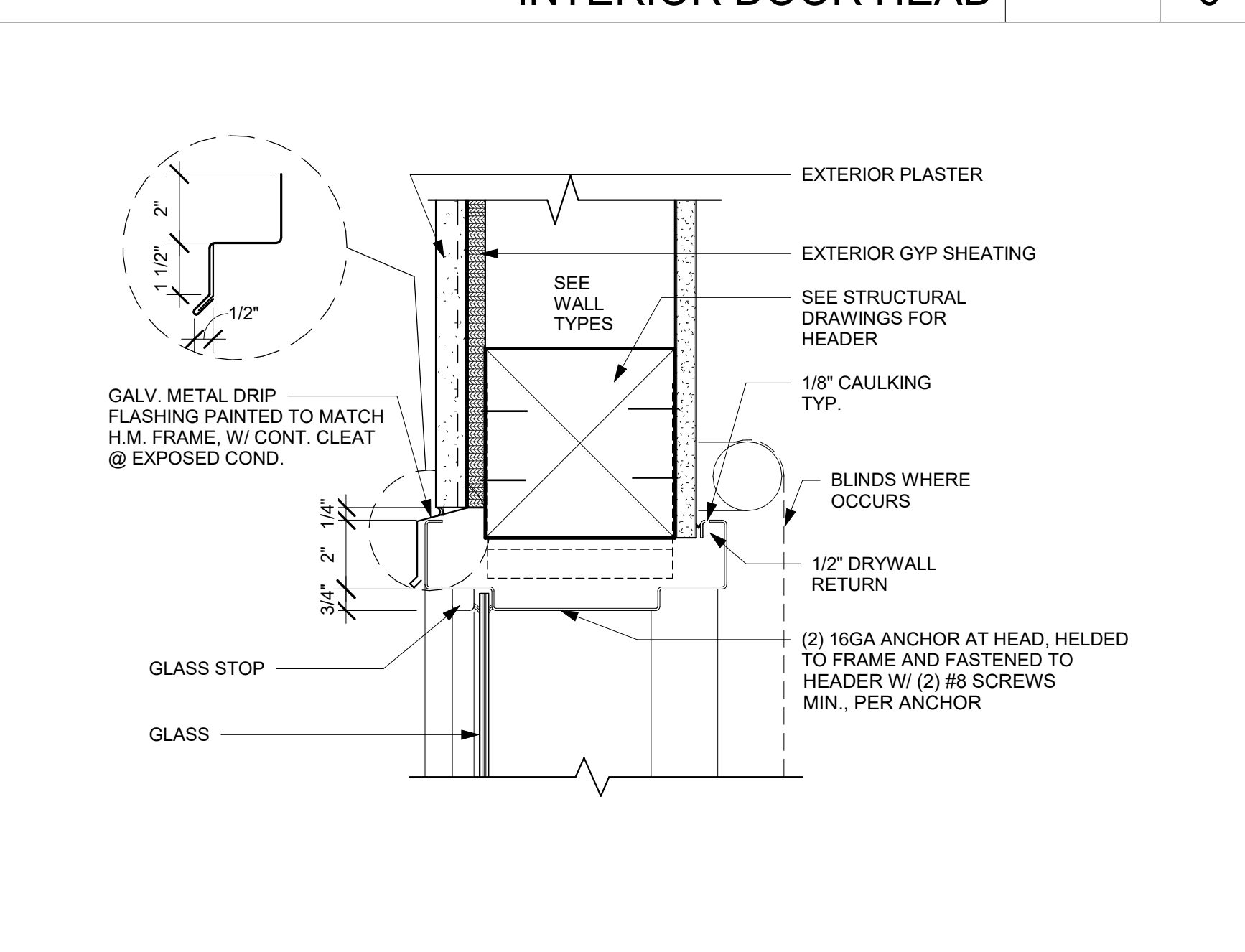
INTERIOR DOOR HEAD 3" = 1'-0" 6



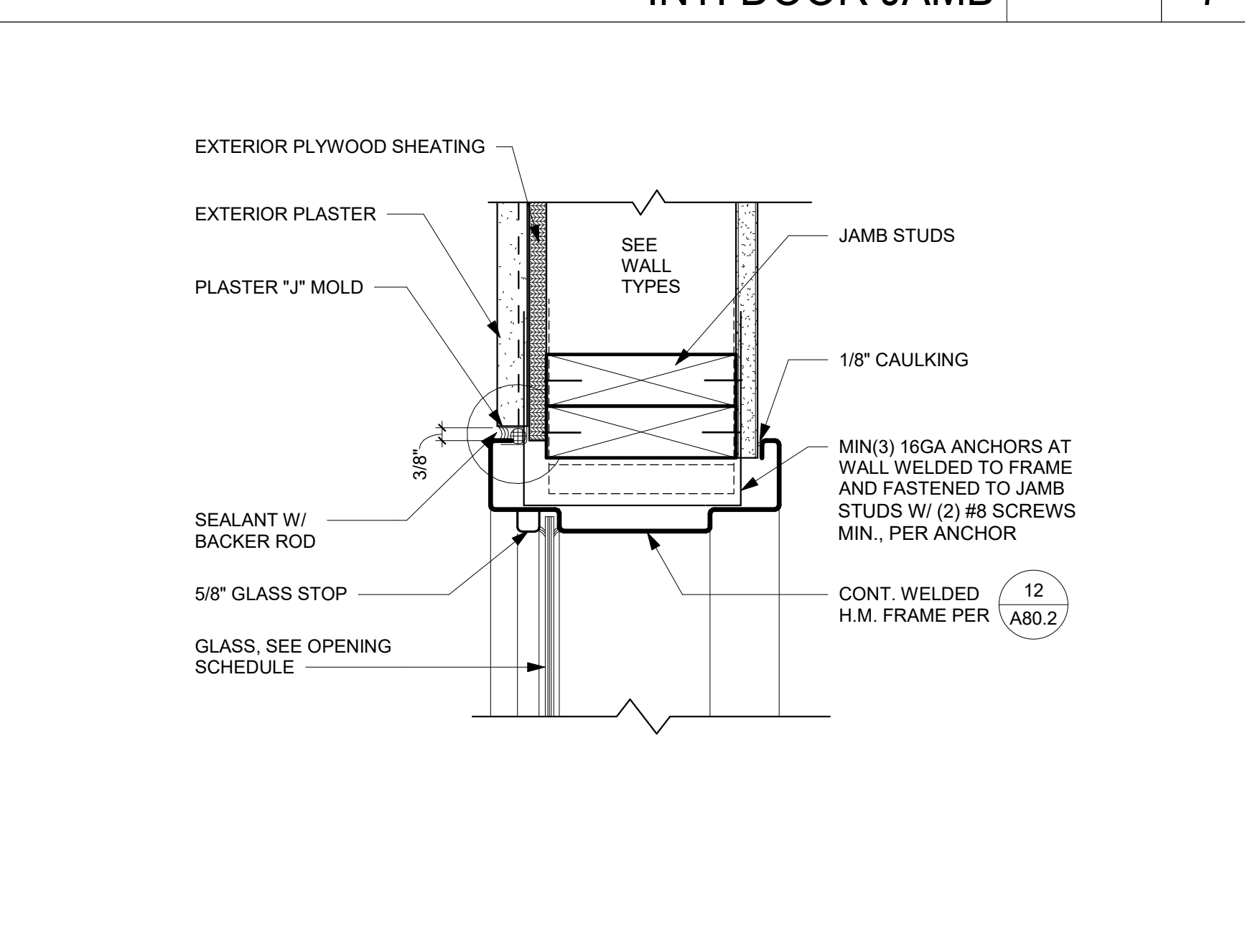
INT. DOOR JAMB 3" = 1'-0" 7



EXT. WINDOW SILL 1 1/2" = 1'-0" 9



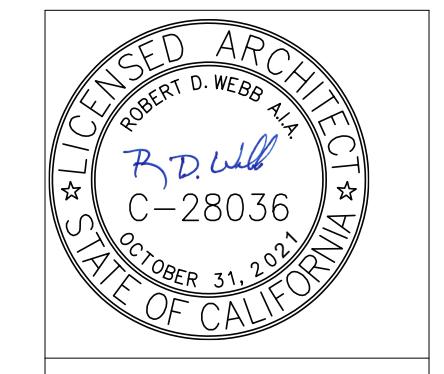
EXTERIOR WINDOW HEAD 3" = 1'-0" 10



EXTERIOR WINDOW JAMB 3" = 1'-0" 11

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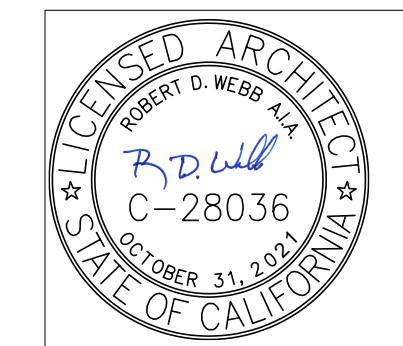
PROSPECT AVENUE ELEM SCHOOL
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JAMB/HEAD/SILL
 DETAILS

Drawn: RI
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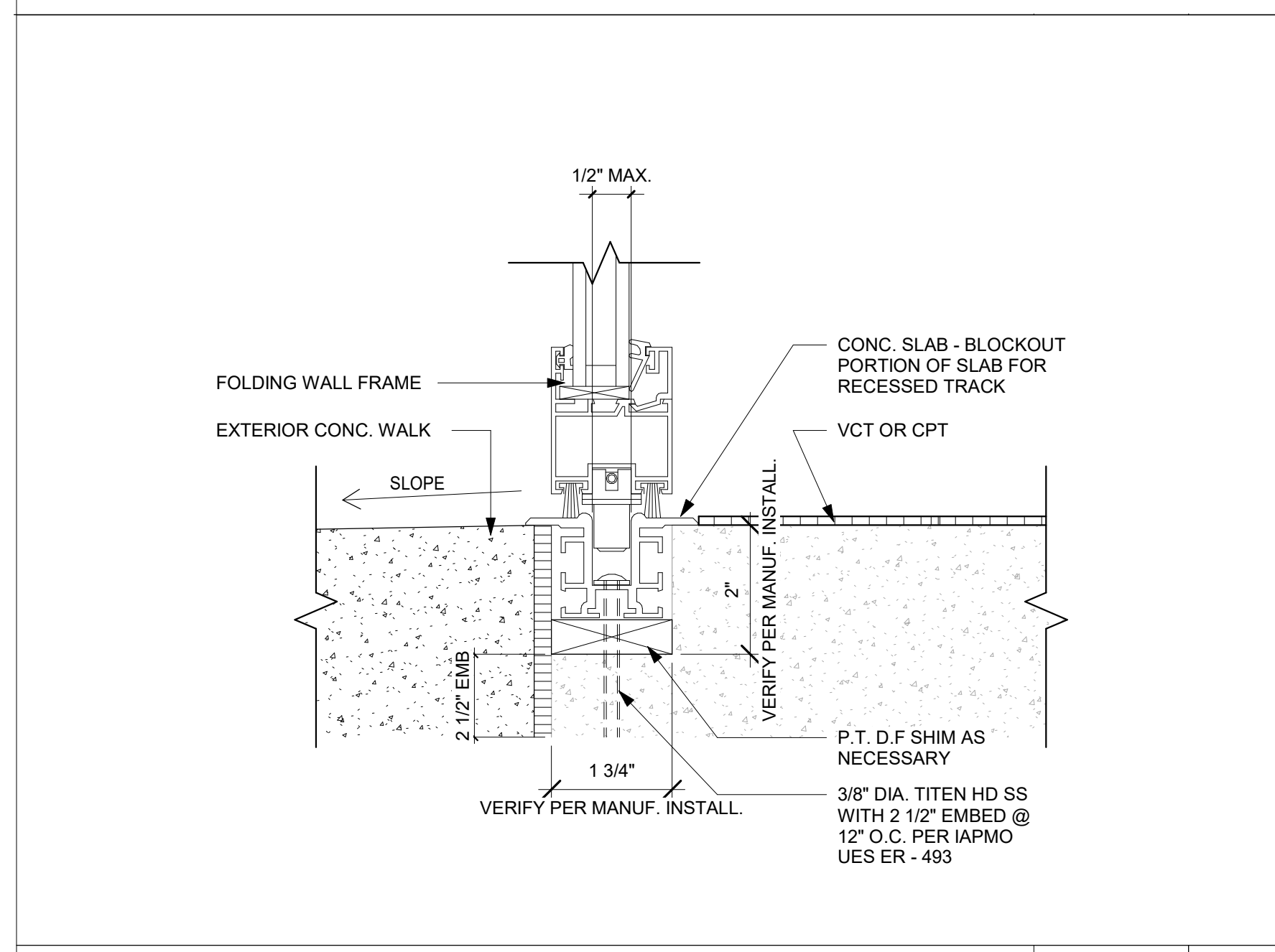
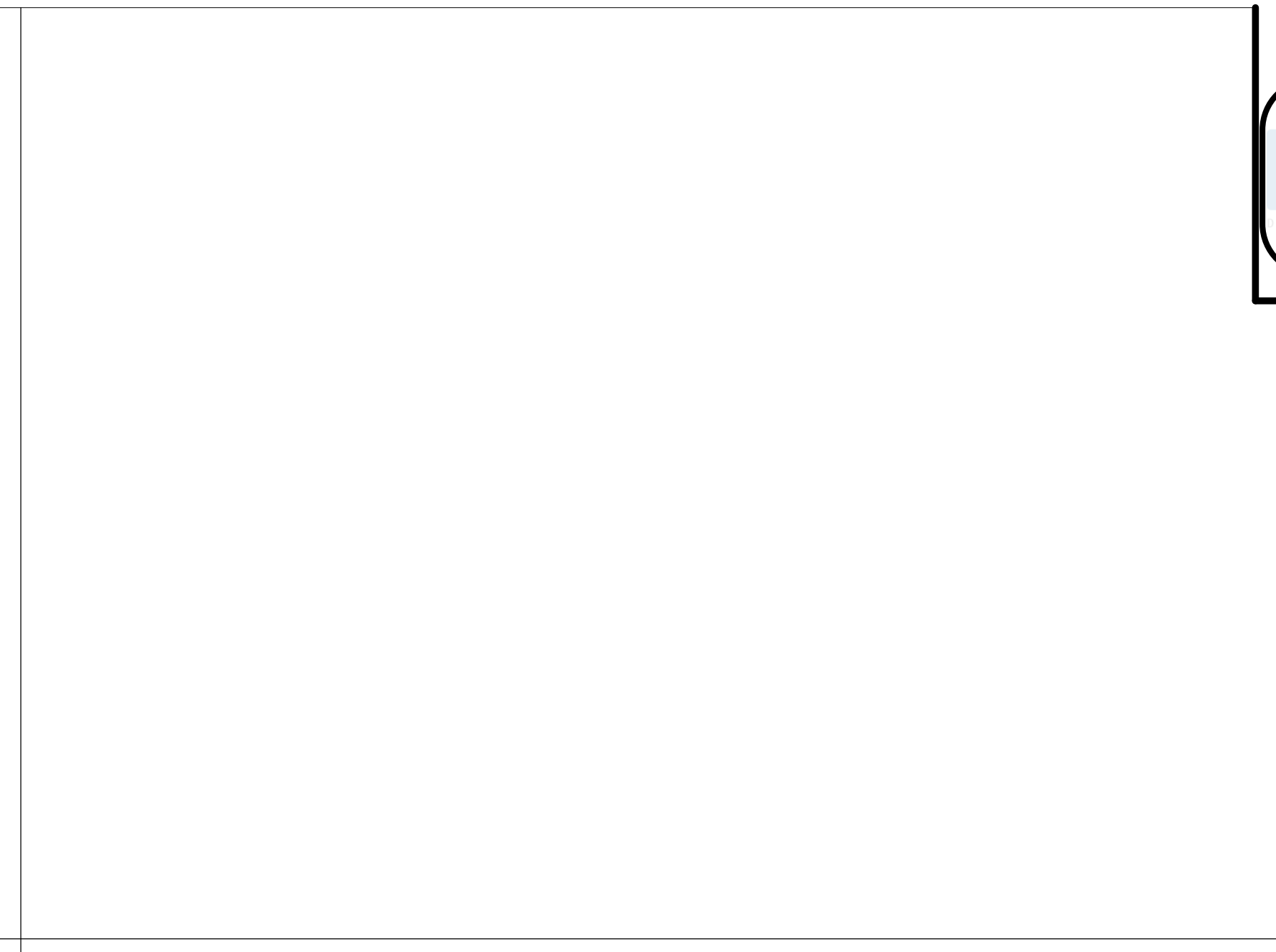
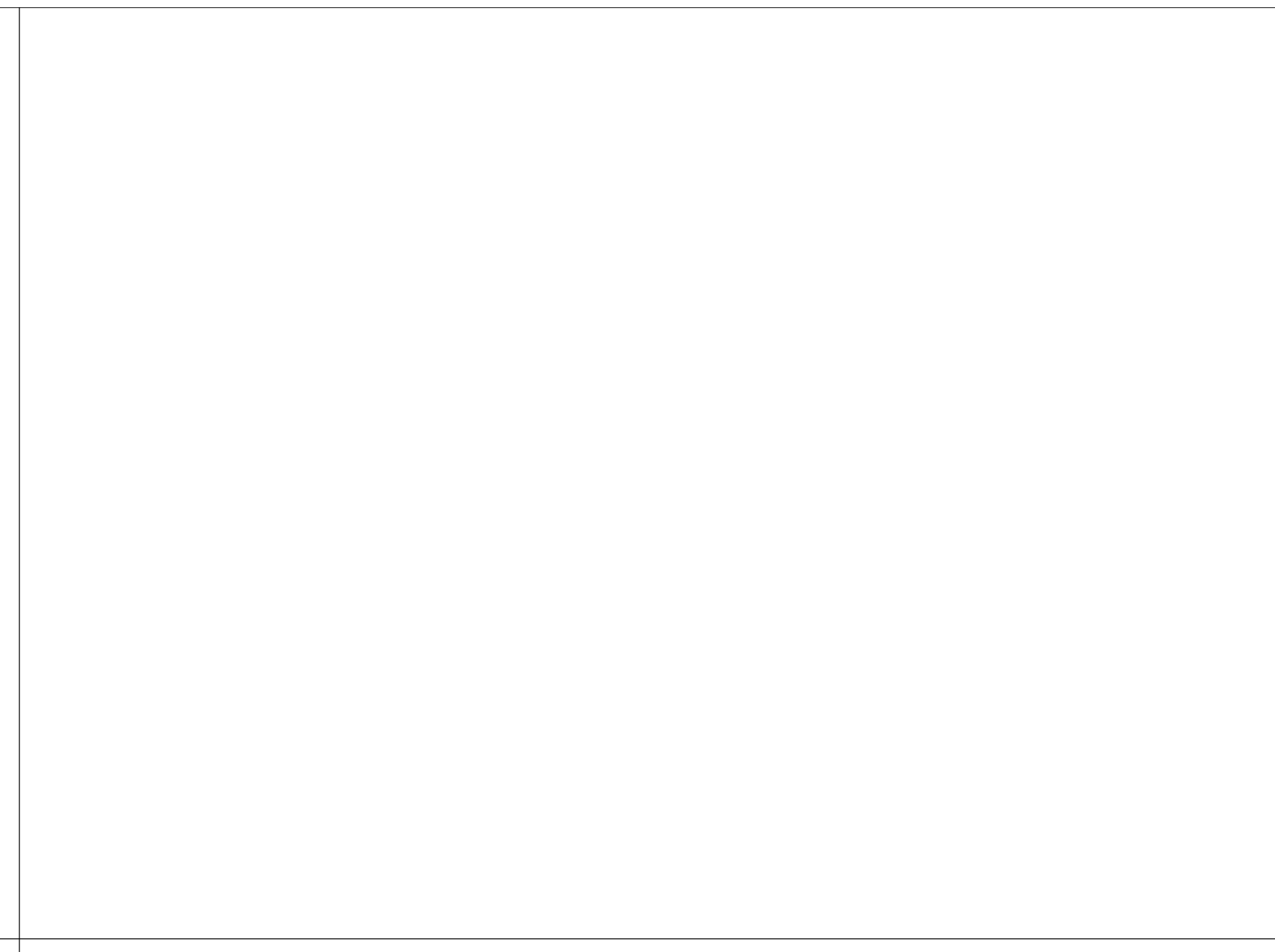
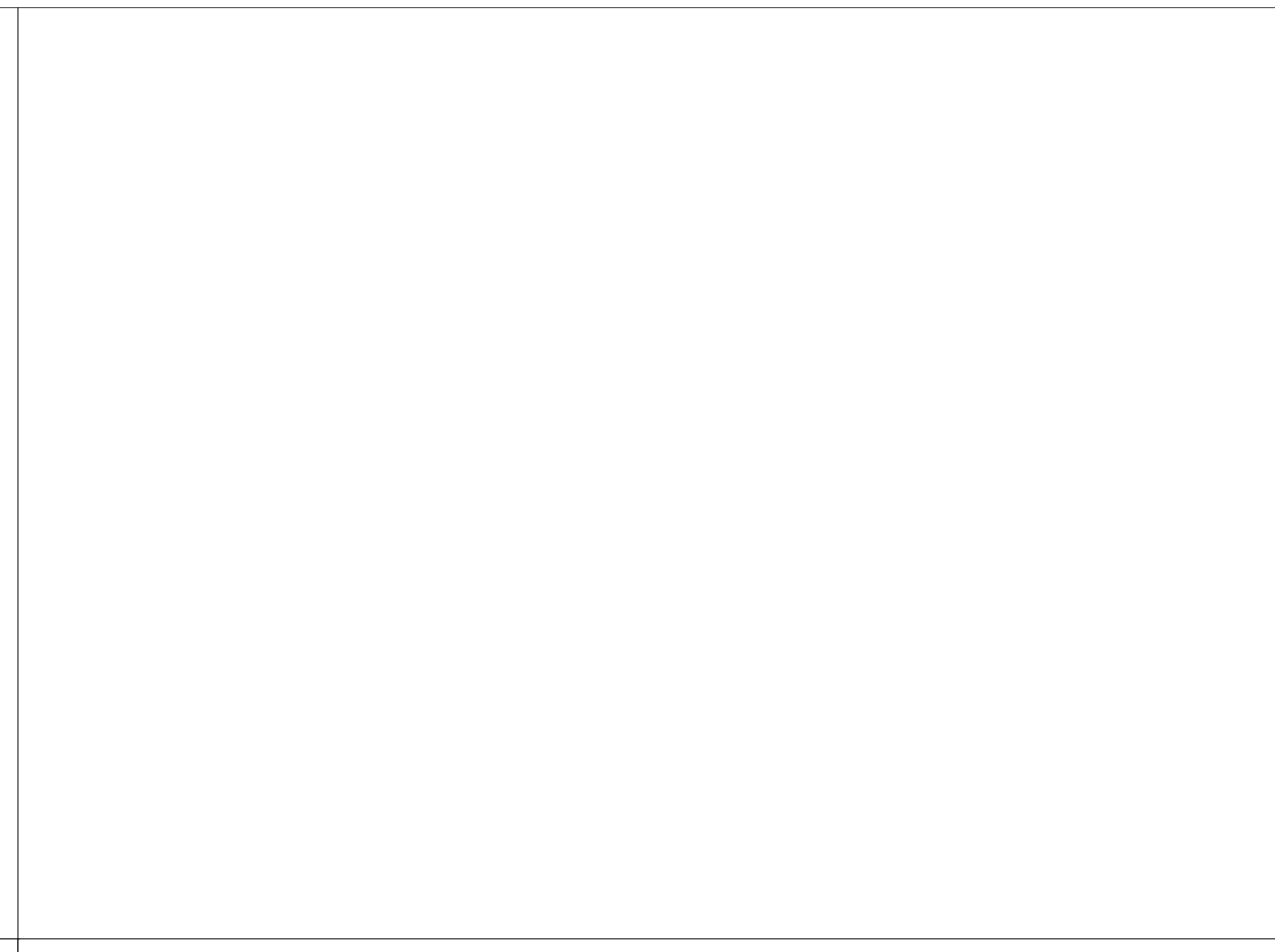
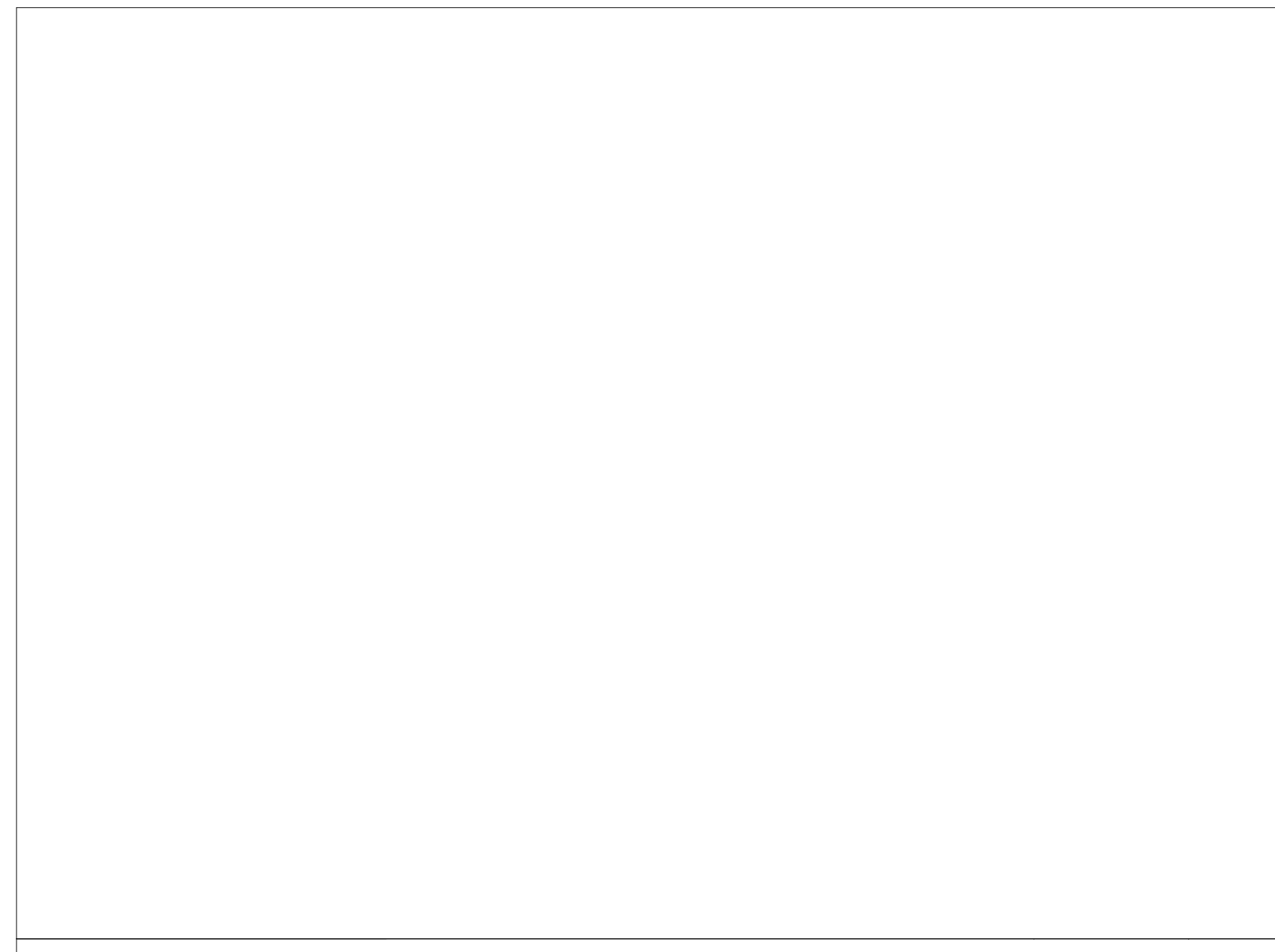


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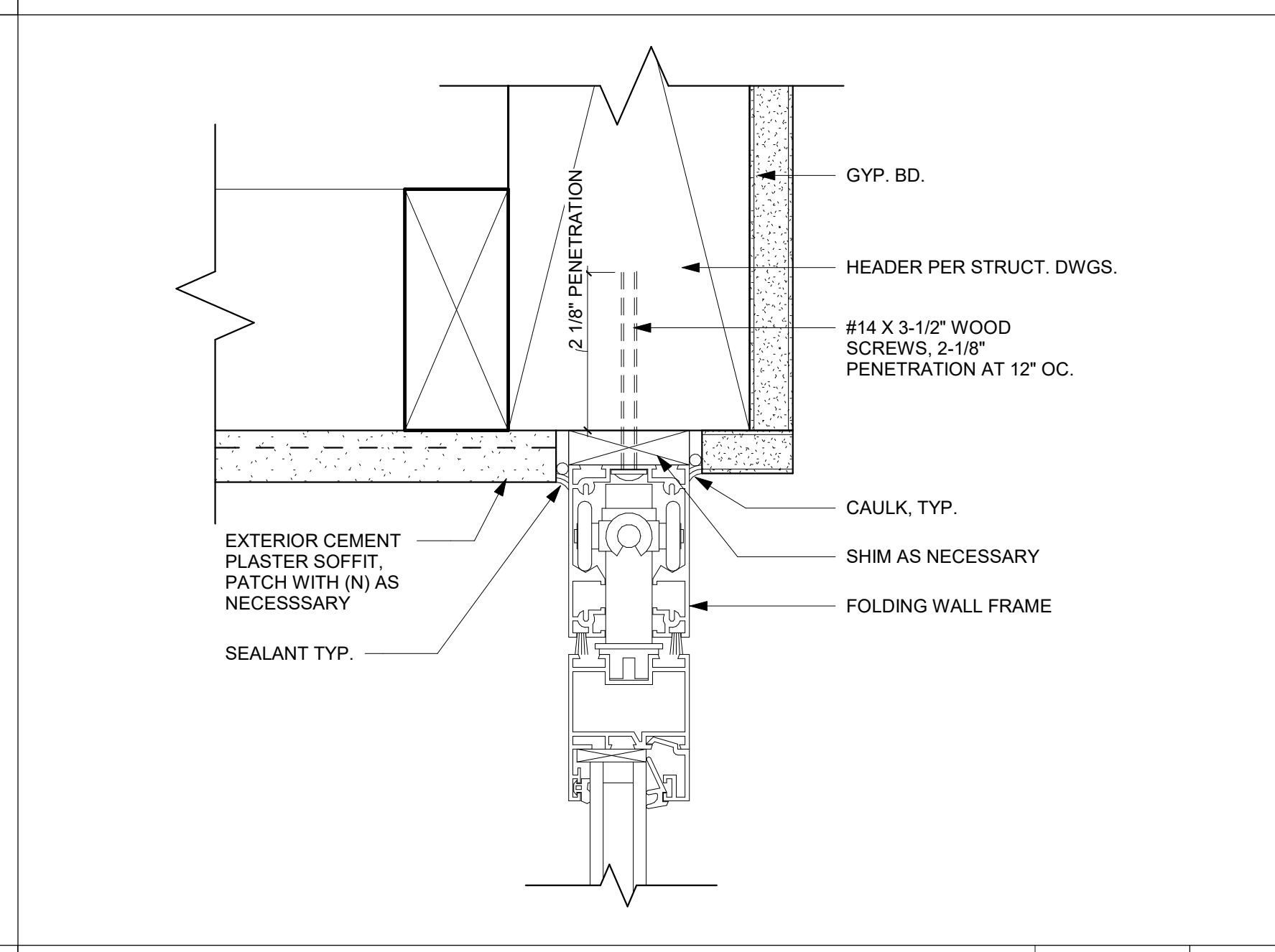
JAMB/HEAD/SILL
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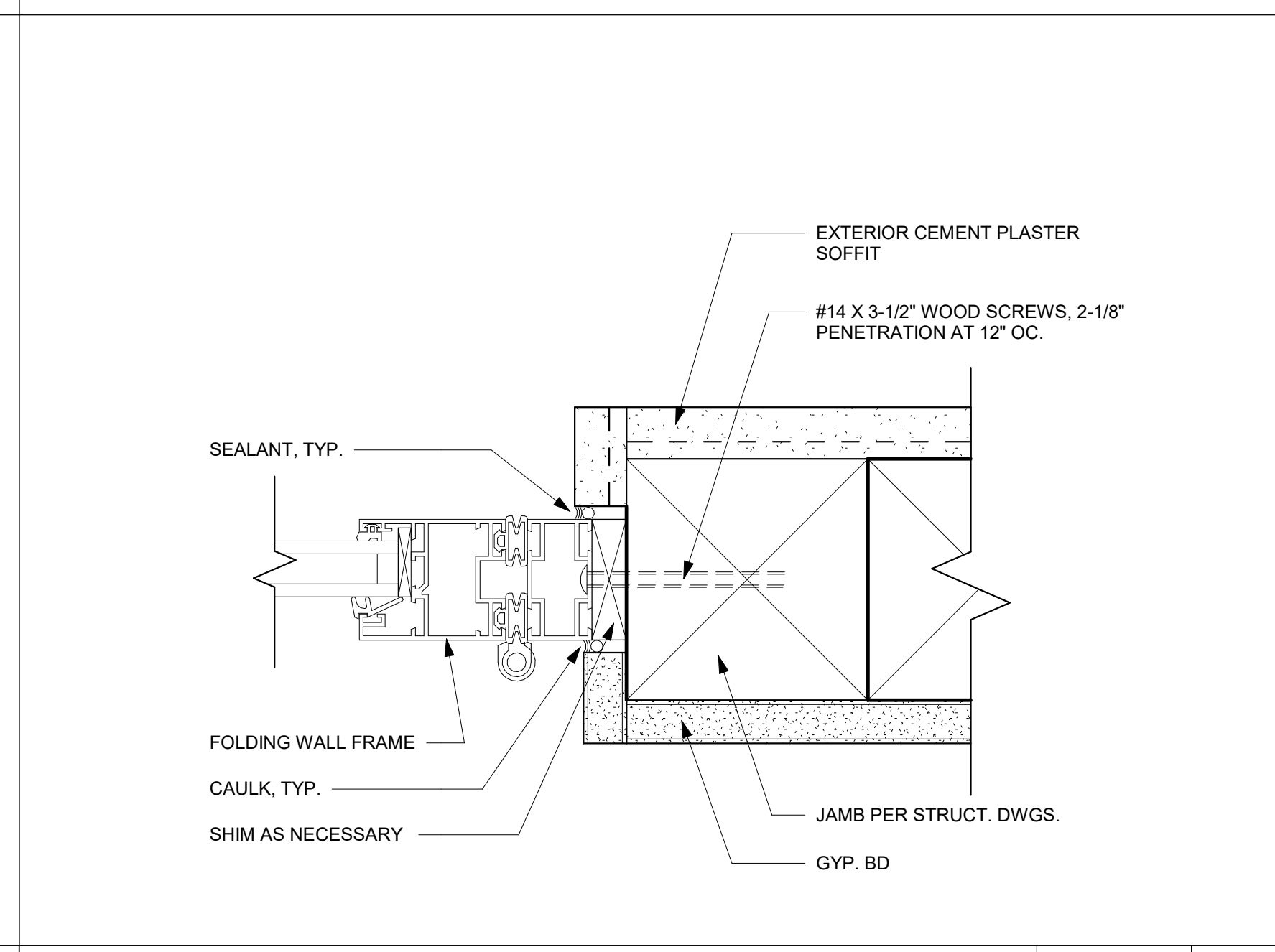
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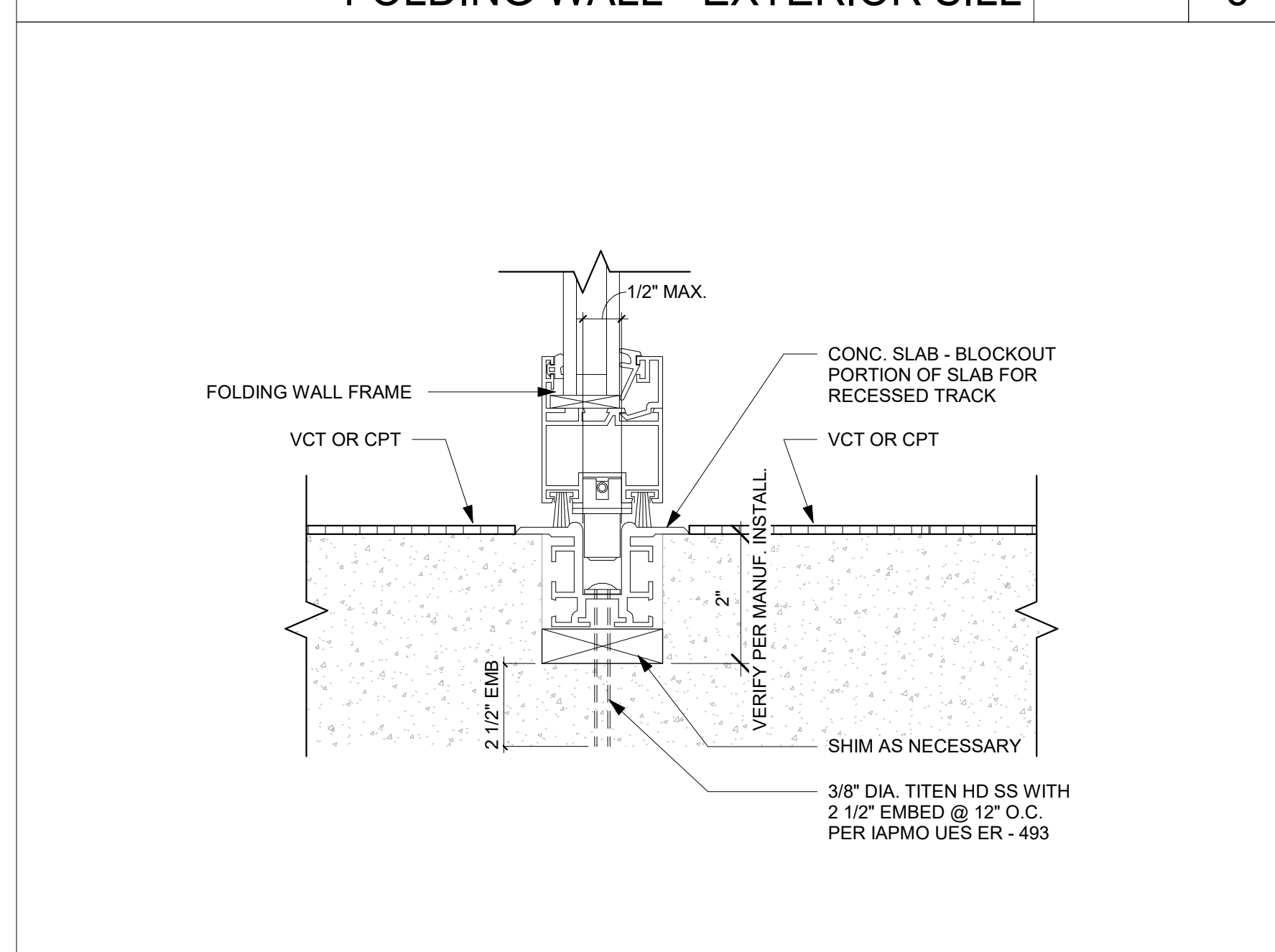
FOLDING WALL - EXTERIOR SILL 6" = 1'-0" 5



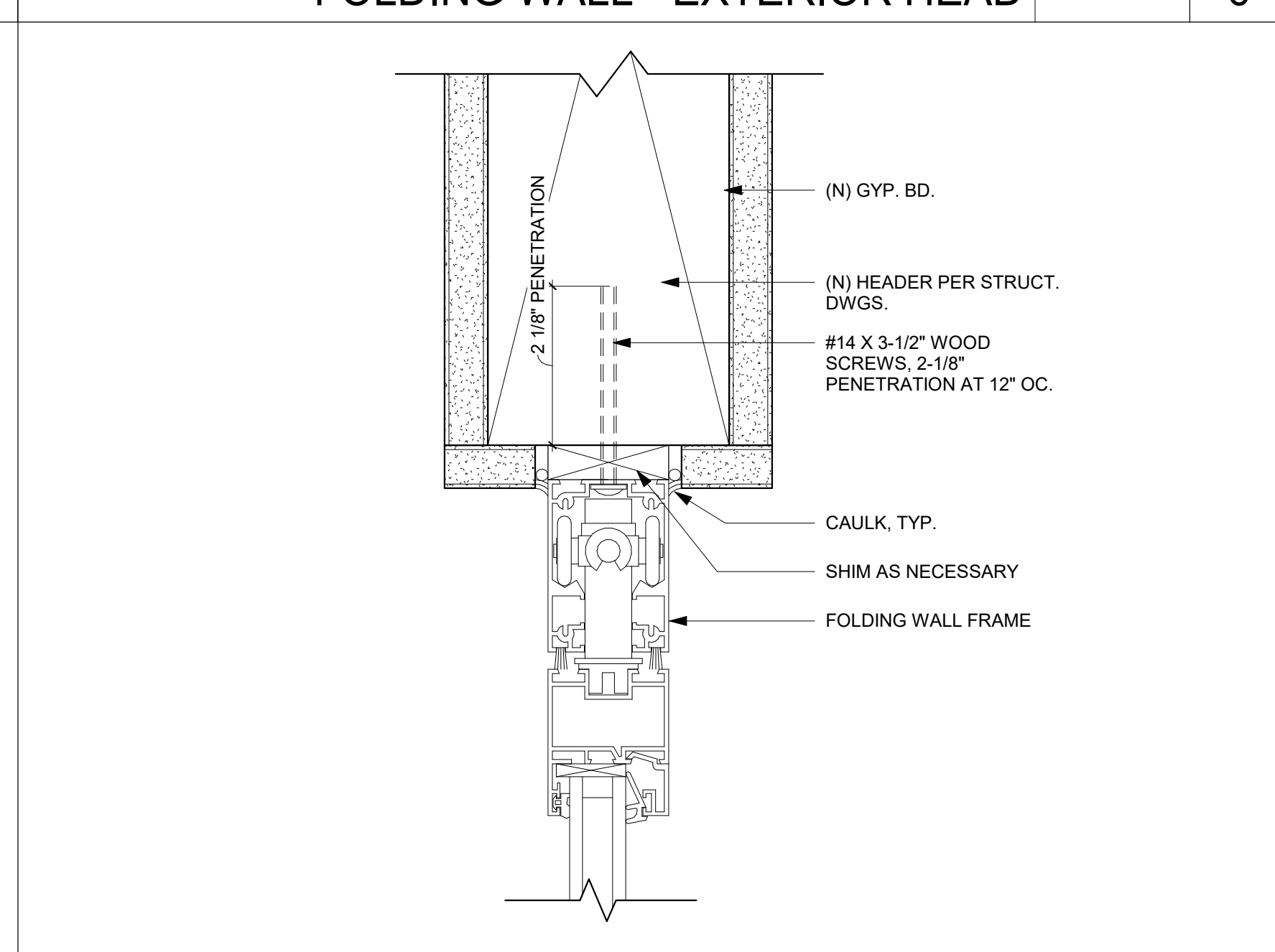
FOLDING WALL - EXTERIOR HEAD 6" = 1'-0" 6



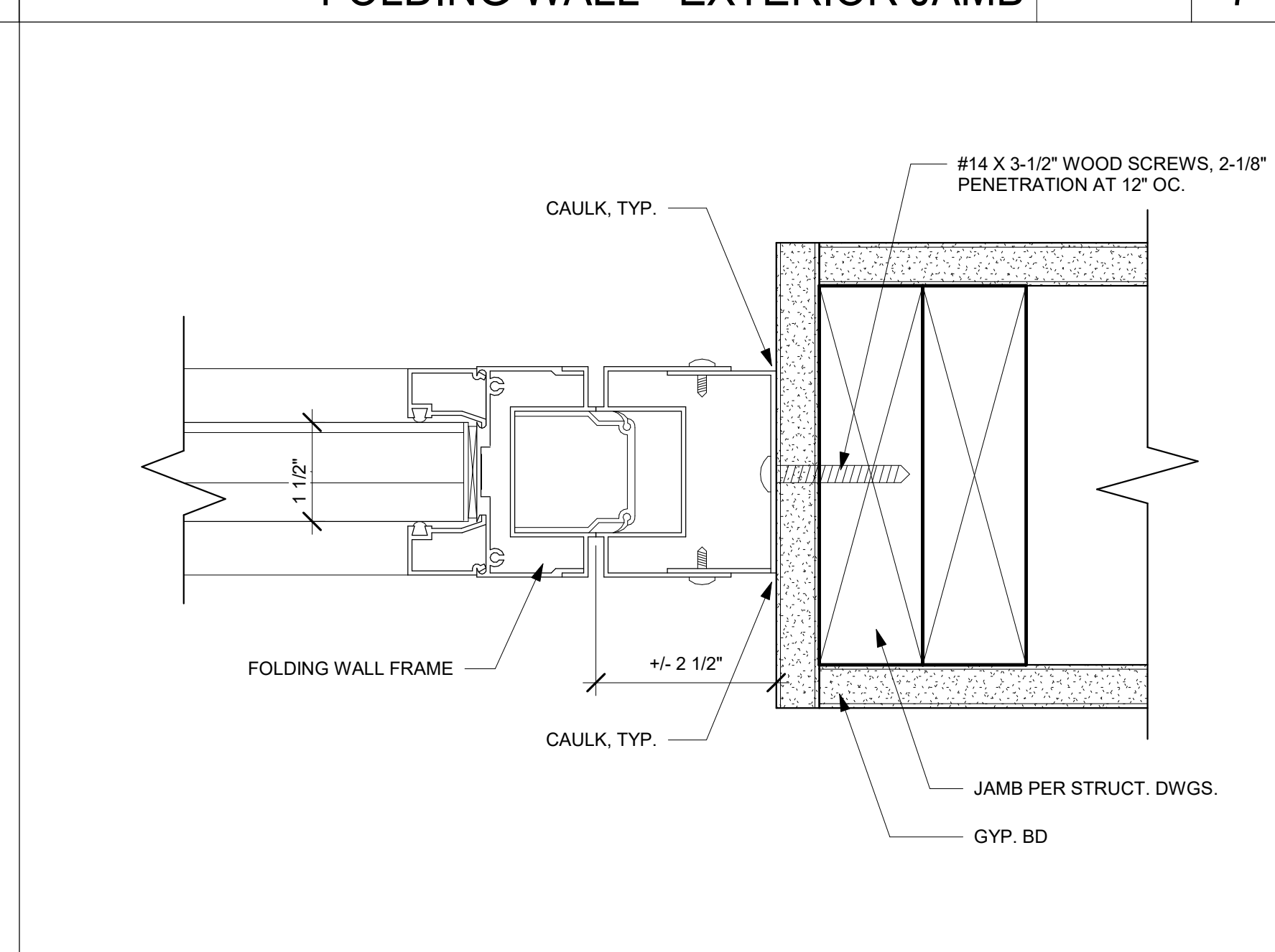
FOLDING WALL - EXTERIOR JAMB 6" = 1'-0" 7



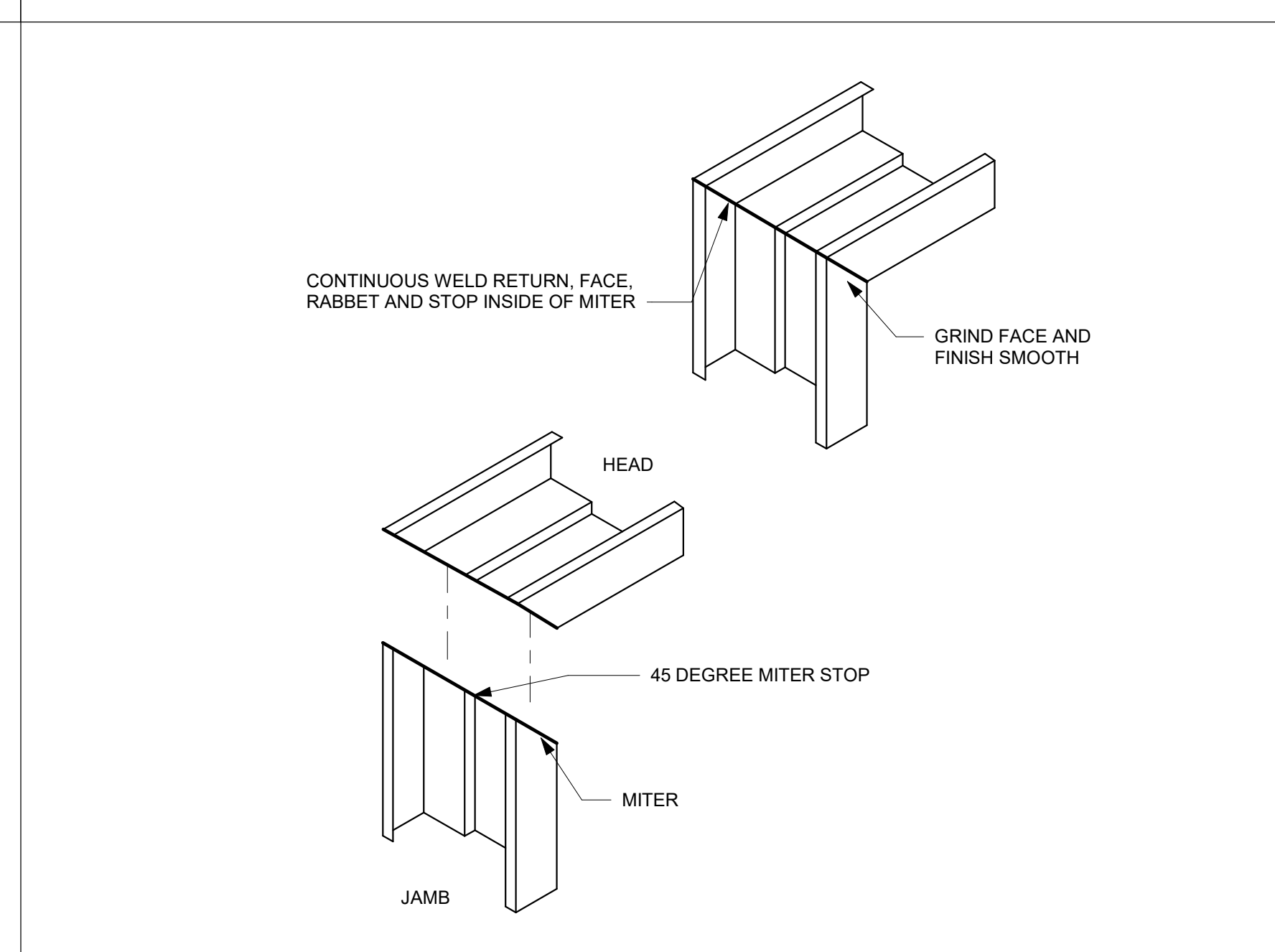
FOLDING WALL - INTERIOR SILL 6" = 1'-0" 9



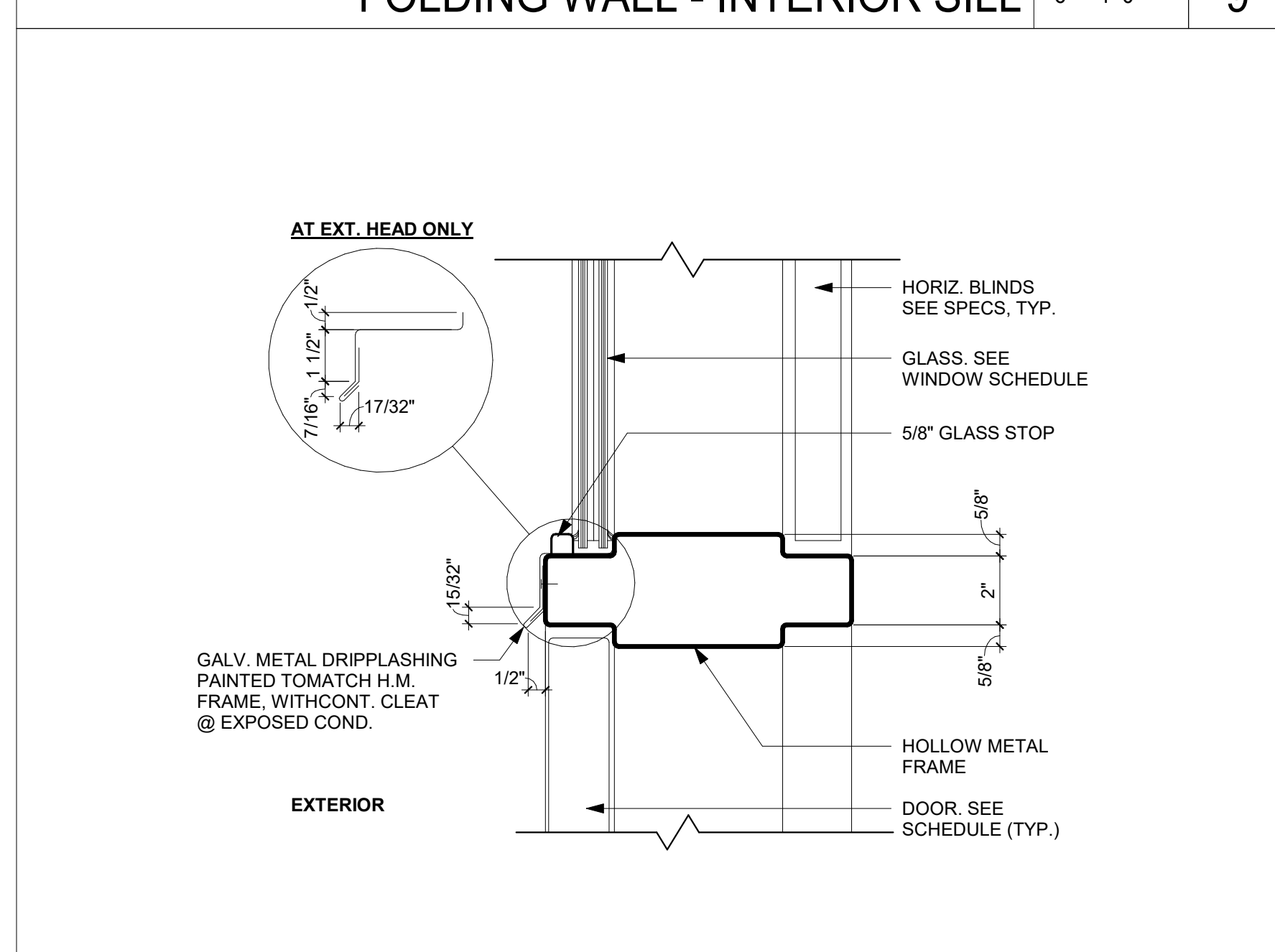
FOLDING WALL - HEAD 6" = 1'-0" 10



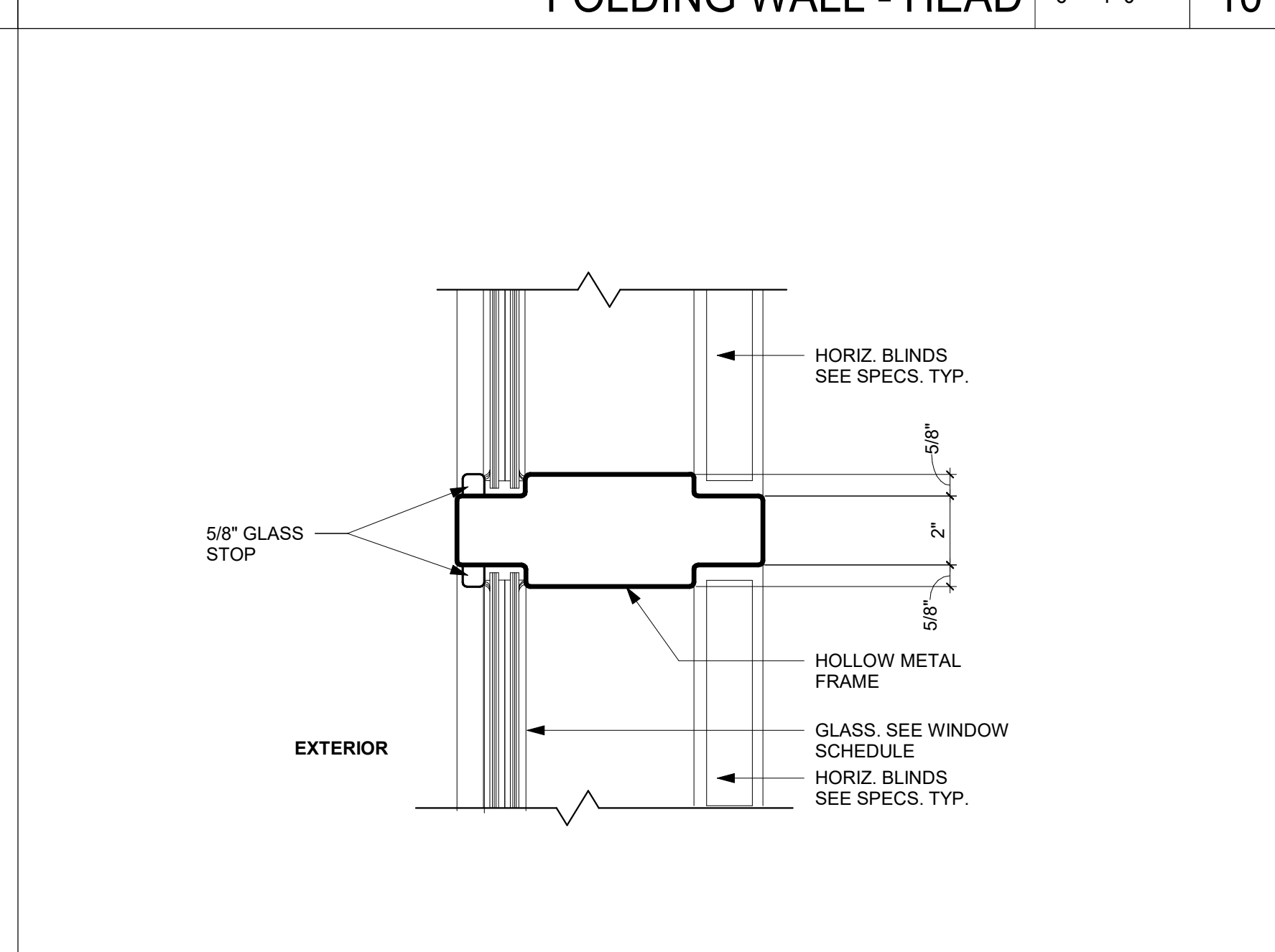
INTERIOR FOLDING WALL JAMB 6" = 1'-0" 11



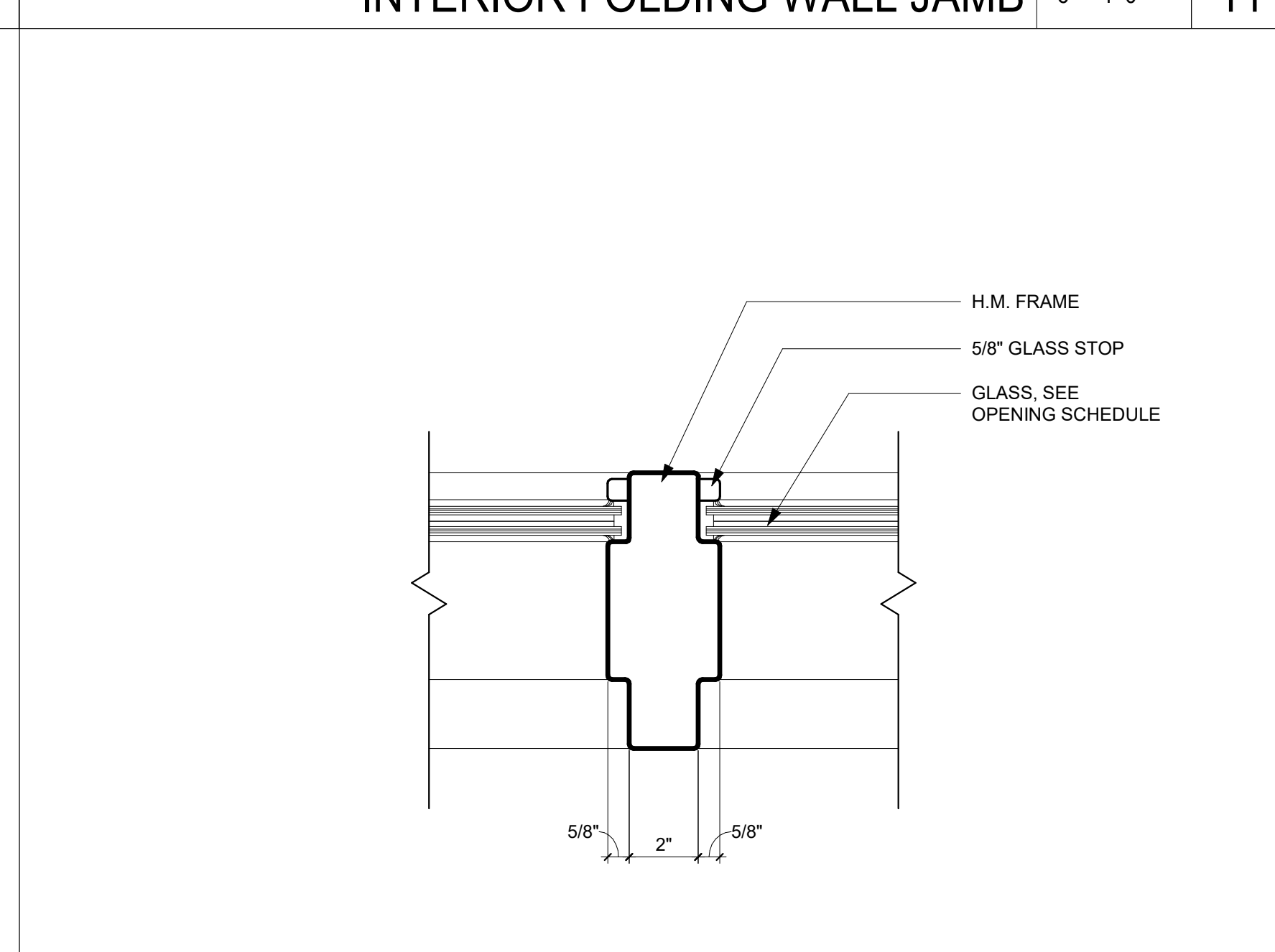
H.M. DOOR - JAMB 3" = 1'-0" 12



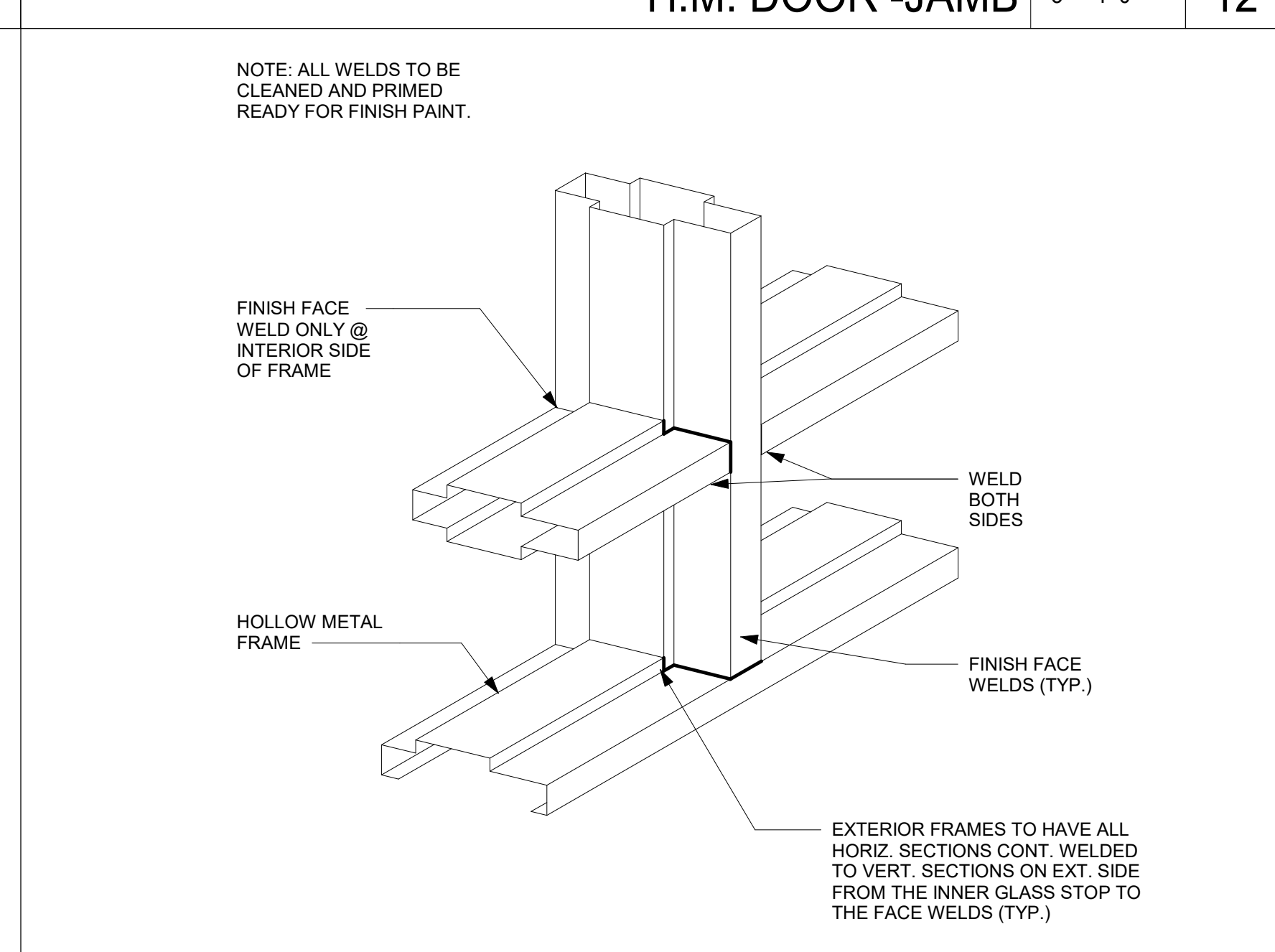
DOOR / WINDOW MULLION 3" = 1'-0" 13



WINDOW MULLION 3" = 1'-0" 14



MULLION 3" = 1'-0" 15



H.M. JOINT WELDING 3" = 1'-0" 16

EXPANSION OR EPOXY - TYPE ANCHORS CONT.

- ALL EXPANSION BOLTS TO BE USED SHALL BE HLTI KB-TZ ANCHORS TYP PER ICC ESR-1917. ALL EPOXY BOLTS SHALL BE SIMPSON SET-XP EPOXY PER ICC ESR-2808. NO SUBSTITUTION SHALL BE MADE WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER.

HLTI KB TZ BOLT TESTING TABLE. FOR EPOXY BOLTS SEE SPECIFIC DETAIL FOR EMBEDMENT AND DIRECT PULL TESTING LOAD.

BOLT DIA.	MINIMUM DEPTH OF EMBEDMENT	REQUIRED INSTALLATION TORQUE FOR EXPANSION BOLT
3/8"	2"	25 FT-LBS
1/2"	3 1/4"	40 FT-LBS
5/8"	4"	60 FT-LBS
3/4"	4 3/4"	110 FT-LBS

TABLE NOTES:

- TABULATED VALUES ARE BASED ON THE ICC ESR REPORT #1917 AND SHALL BE INSTALLED WITH SPECIAL INSPECTION. THE TABULATED VALUES ARE FOR ANCHORS INSTALLED A MINIMUM OF 12 DIAMETERS ON CENTER AND A MINIMUM EDGE DISTANCE OF 12 DIAMETERS. SEE CBC 1910A.5.5 FOR ACCEPTANCE AND FAILURE CRITERIA.
- WHEN THE EXPANSION-TYPE ANCHORS ARE TO BE USED FOR SILL PLATE BOLTING APPLICATIONS, 10% OF THE ANCHORS SHALL BE TORQUE TESTED. WHEN EXPANSION-TYPE ANCHORS ARE USED FOR OTHER STRUCTURAL APPLICATIONS, ALL SUCH EXPANSION ANCHORS SHALL BE TESTED. WHEN EXPANSION-TYPE ANCHORS ARE USED FOR NONSTRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE, 50% OR ALTERNATE BOLTS IN A GROUP SHALL BE TORQUE TESTED.
- THE TESTING OF THE EXPANSION AND EPOXY ANCHORS SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO DSA ENFORCEMENT AGENCY. IF ANY ANCHORS FAIL THE TESTING REQUIREMENTS, DSA ENFORCEMENT AGENCY SHALL DETERMINE IF THE PROPOSED ADDITIONAL TESTING REQUIREMENTS ARE ACCEPTABLE.

ABBREVIATION

AB	ANCHOR BOLT	INFO	INFORMATION
ABV	ABOVE	INT	INTERIOR
ADDL	ADDITIONAL	KP	KING POST
ALT	ALTERNATE	KSI	KIPS PER SQ INCH
ARCH	ARCHITECT, ARCHITECTURAL		
BTWN	BETWEEN	LBS	POUNDS
BLW	BELOW	LG	LONG
BLDG	BUILDING	LONG	LONGITUDINAL
BLKG	BLOCKING	LT WT	LIGHT WEIGHT
BM	BEAM		
BN	BOUNDARY NAILING	MAX	MAXIMUM
BOTT	BOTTOM	MB	MACHINE BOLT
BS	BOTH SIDES	MD	METAL DECK
BSMT	BASEMENT	MECH	MECHANICAL
		MFR	MANUFACTURER
		MIN	MINIMUM
CLR	CLEAR	MISC	MISCELLANEOUS
CLG	CEILING		
CMU	CONCRETE MASONRY UNITS	NS	NEAR SIDE
COL	COLUMN	NW	NORMAL WEIGHT
CONC	CONCRETE		
CONN	CONNECTION	OC	ON CENTER
CONST	CONSTRUCTION	OPP	OPPOSITE
CONT	CONTINUOUS		
CONTR	CONTRACTOR	PSF	POUNDS PER SQ FOOT
CF	CUBIC FOOT	PSI	POUNDS PER SQ INCH
CJ	CONST JOINT		
CVR	COVER	REINF	REINFORCEMENT
		REQ	REQUIRED
DIA	DIAMETER	SCHED	SCHEDULE
DIR	DIRECTION	SF	SQUARE FOOT
DWG	DRAWING	SHT	SHEET
EA	EACH	SIM	SIMILAR
EF	EACH FACE	SPC	SPECIFICATION
ELEC	ELECTRICAL	SQ	SQUARE
EL	ELEVATION	STD	STANDARD
ENGR	ENGINEER	STL	STEEL
EXP JT	EXPANSION JOINT	STRUCT	STRUCTURAL
EQ	EQUAL	SYM	SYMMETRICAL
EXT	EXTERIOR	THK	THICK
FF	FINISHED FLOOR	T&B	TOP & BOTTOM
FG	FINISHED GRADE	TOP	TOP OF FOOTING
FL	FLOOR	TL	TOP OF LEDGER
FS	FAR SIDE	TOS	TOP OF STEEL, TOP OF SHEATHING
FDN	FOUNDATION	TRANSV	TRANSVERSE
FCC	FACE OF CONCRETE	TS	TUBE STEEL
FOS	FACE OF STUD	TYP	TYPICAL
FT	FOOT, FEET		
FOOTING	FTG	UNO	UNLESS NOTED OTHERWISE
GA	GAGE	VERT	VERTICAL
GALV	GALVANIZED		
GND	GROUND	WF	WIDE FLANGE BEAM
GR	GRADE	W/	WITH
		W/O	WITHOUT
HB	HEADED BOLT	WP	WATERPROOFING
HT	HEIGHT	WWF	WELDED WIRE FABRIC
HORIZ	HORIZONTAL	WT	WEIGHT
HS	HIGH STRENGTH	WP	WORKING POINT
		WS	WELDED STUD

POWDER DRIVEN SHOT PINS (LOW VELOCITY)

- SHOT PINS MAY BE USED FOR SHEAR LOADS AND THEY MAY BE USED IN TENSION TO SUPPORT LOADS LESS THAN 100 POUNDS FOR MINOR LOADS LIKE ACOUSTICAL CEILINGS, DUCT WORK, CONDUIT, ETC. ANY SHOT ANCHORS MUST HAVE ICC APPROVAL FOR USE ON CONCRETE CURBS.
- THE ALLOWABLE LOADS SHALL BE 100 POUNDS OR 80 % OF ESR 1663 VALUES, WHICHEVER IS LESS. QUALIFICATIONS FOR USE OF ALL POWER ACTUATED TOOLS MUST MEET ANSI A10.3 STANDARD AS REQUIRED BY THE MANUFACTURER AND ALL OSHA REQUIREMENTS.
- TESTING - THE OPERATOR, TOOL AND FASTENER SHALL BE PRE - QUALIFIED BY THE PROJECT INSPECTOR. THE INSPECTOR SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL - OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.
- SHOT PINS SHALL BE HLTI, X - U (ESR 2269) AND CAN BE USED TO CONNECT METAL STUD TRACK OR WOOD SILL TO
 - CONCRETE AND MASONRY X - U 0.157 SHANK DIA. W/ 1-1/2" MIN. PENETRATION

WOOD

- ALL WOOD MEMBERS SHALL BE DOUGLAS FIR LARCH #1 GRADE, EXCEPT BLOCKING MAY BE #2 GRADE, CONFORMING TO THE WCLB GRADING RULES #16, OR AS SPECIFICALLY CALLED FOR ON THE DRAWINGS. EACH PIECE OF LUMBER SHALL BE GRADE MARKED. ALL MEMBERS TO HAVE MOISTURE CONTENT LESS THAN 19% AT TIME OF INSTALLATION.
- ALL LUMBER WHICH COMES IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE DOUGLAS FIR NO. 2 OR BETTER, PRESSURE TREATED AND BEAR THE MARK INDICATING CONFORMANCE WITH THE REQUIREMENTS OF AWPA STANDARD U1 AND T1. THE LUMBER SHALL BE PRESSURE TREATED WITH THE CHEMICAL ACZA, BORATE OR EQUAL, WHERE SILLS ARE CUT, DRILLED OR NOTCHED THEY SHALL BE TREATED WITH A PRESERVATIVE THAT MEETS THE AWPA STANDARD U1 AND APPROVED BY THE ARCHITECT AND THE ENFORCEMENT AGENCY. ON ALL EXPOSED SURFACES FROM WHICH THE PRESERVATIVE TREATMENT HAS BEEN REMOVED, SILLS AT SHEAR WALLS AND BEARING WALLS SHALL BE FLAT AND UNIFORM ON CONCRETE SURFACE SO AS TO OBTAIN CONTINUOUS BEARING.
- ALL PLYWOOD SHALL BE MANUFACTURED USING EXTERIOR GLUE AND SHALL CONFORM TO U.S. PRODUCT STANDARD PS-1, SECTION 7. PANELS SHALL CONFORM TO THE GRADES SPECIFIED ON THE DRAWINGS. PANELS EXPOSED TO WEATHER SHALL BE EXTERIOR GRADE. EACH PANEL SHALL BEAR MARKINGS IDENTIFYING THE QUALIFIED TESTING AND INSPECTION AGENCY, GRADE, NOMINAL THICKNESS, SPAN RATING, EXPOSURE DURABILITY CLASSIFICATION AND STANDARD TO WHICH IT IS CERTIFIED.
- USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL OF THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE ENFORCEMENT AGENCY. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING IS NOT ALLOWED FOR 5/16 INCH PLYWOOD. IF THE NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HELD HAMMER, OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOTE MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND MACHINE NAILING SHALL BE DISCONTINUED.

WOOD CONT.

- ALL BOLTED CONNECTIONS ARE TO BE RETIGHTENED PRIOR TO CLOSING IN.
 - NAILING SHALL BE WITH COMMON NAILS AND SHALL CONFORM TO THE CBC NAILING SCHEDULE TABLE 2304.10.1
 - SHEET METAL HANGERS, TIES, BRIDGING ANCHORS, ETC. SHALL BE BY THE SIMPSON COMPANY OR APPROVED EQUAL.
 - BLOCKING AND BRIDGING TO BE PROVIDED PER CBC 2308.4.6 AND 2308.7.8.
 - FOR 10d NAILS AT PLYWOOD SHEAR WALLS AND ROOF DIAPHRAGMS, PROVIDE 1 1/2" MINIMUM PENETRATION INTO FRAMING PER AWS SDPWS (FORMERLY ANSII/AF & PA SDPWS) TALBES.
- GLU LAM BEAMS**
- STRUCTURAL GLUED LAMINATED TIMBER SHALL BE DOUGLAS FIR FABRICATED TO CONFORM TO STANDARD SPECIFICATIONS FOR THE DESIGN AND FABRICATION OF STRUCTURAL GLUED LAMINATED TIMBER PER ANSI A190.1 AND AITC 117-2004 COMBINATION 24 F-V4 FOR SIMPLE SPAN & 24F-V8 FOR CANTILEVERED UNLESS NOTED OTHERWISE. GLULAM BEAMS ARE DESIGNED FOR DRY SERVICE CONDITION, U.N.O. SEE TYPICAL DETAIL 17/S1.3 FOR TENSION LAP SPLICE REQUIREMENTS OF GLULAMS. GLULAM BEAMS SHALL BE PROTECTED DURING SHIPPING AND FIELD HANDLING. PROVIDE SEALING AND WRAPPING IN ACCORDANCE WITH AITC 111. ALL GLUED LAMINATED TIMBER EXPOSED TO WEATHER SHALL BE ALASKAN CEDAR, (20F V12 - AC/AC)

COMPOSITE LUMBER

- STRUCTURAL COMPOSITE LUMBER SHALL BE LAMINATED VENEER LUMBER (LVL) OR APPROVED EQUAL. ALL LVL SHALL BE 2.0E AND IN ACCORDANCE WITH ESR # 1387. REFER TO SHEET S300 OF PC 04-114896 FOR ADDITIONAL NOTES.
 - G = 125,000 PSI
 - E = 2.0 X 10⁶ PSI
 - F_x = 2900 PSI
 - F_y = 1805 PSI
 - F_z = 800 PSI
 - F_t = 2635 PSI
 - F_c = 285 PSI
 - S.G. = 0.50
- STRUCTURAL COMPOSITE LUMBER NOTED ON PLAN SHALL BE MANUFACTURED BY BOISE CASCADE VERSA-LAM 2.0 3100, ALL PARALLEL STRANDED LUMBER (PSL) NOTED OR APPROVED EQUAL CAN BE SUBSTITUTED WITH VERSA-LAM 2.0 3100. ALL VERSA-LAM SHALL BE 2.0E AND IN ACCORDANCE WITH ESR # 1040
 - G = 125,000 PSI
 - E = 2.0 X 10⁶ PSI
 - F_x = 3100 PSI
 - F_y = 2150 PSI
 - F_z = 750 PSI
 - F_t = 3000 PSI
 - F_c = 285 PSI
 - S.G. = 0.50

EXPANSION OR EPOXY - TYPE ANCHORS

- INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2016 CBC 1910.A.5.
- INSTALLATION SHALL BE CONTINUOUSLY INSPECTED IN ACCORDANCE WITH ICC EVALUATION .
- LOAD TEST FOR VALUES SHOWN U.N.O. ARE IN ACCORDANCE WITH CBC, SECTION 1910A.5.4

REINFORCED CONCRETE (CAST-IN-PLACE)

- STRUCTURAL CONCRETE AND CONCRETE PRACTICES SHALL CONFORM TO ACI 318 CURRENT EDITION AS WELL AS ALL APPLICABLE CODES STATED IN GENERAL NOTE.
- ALL CONCRETE DETAILS SHALL BE IN ACCORDANCE WITH ACI-315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", UNLESS NOTED OTHERWISE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS. ALL CONCRETE NORMAL WEIGHT U.N.O.

	STRENGTH (PSI)	CEMENT TYPE	W/C	WT (PCF)	MAX NOMINAL AGG.
SLAB ON GRADE	4500	V	0.45	145	1"
FOUNDATIONS	4500	V	0.45	145	1"

- ALL CONCRETE SHALL HAVE A MAXIMUM SLUMP NO GREATER THAN 4" EXCEPT FOR FOUNDATIONS WHICH MAY HAVE 5" MAX SLUMP.
- MIX DESIGNS SHALL BE APPROVED BY STRUCTURAL ENGINEER PRIOR TO USE.
- PROPOSED CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.

REINFORCING STEEL

- REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 40 FOR#3 AND SMALL AND GRADE 60 FOR #4 AND LARGER. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.
- WELDED WIRE FABRIC (WWF) SHALL COMPLY WITH ASTM A1064, AND SHALL BE LAPPED 1-1/2 SPACES (12" MIN).
- ALL REINFORCING STEEL, DOWELS, ANCHOR BOLTS, ETC. SHALL BE WELL SECURED IN PLACE PRIOR TO PLACING CONCRETE.
- ALL REINFORCING STEEL SHALL BE LAPPED AS SPECIFIED ON THE DETAIL, WHERE NOT SPECIFICALLY INDICATED ON THE DRAWING. ALL REINFORCING STEEL SHALL BE LAPPED USING THE TENSION SPLICE LENGTHS IN THE SCHEDULE ON DRAWING UNLESS NOTED OTHERWISE. TERMINATED CONTINUOUS BARS AT DISCONTINUOUS ENDS WITH STANDARD HOOKS.
- DOWELS SHALL BE PROVIDED AT POUR AND CONSTRUCTION JOINTS AND SHALL BE THE SAME SIZE AND SPACING AS THE REINFORCING SHOWN FOR THE SUBSEQUENT CONSTRUCTION.
- REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM COVERS, U.N.O.
 - CONCRETE AGAINST EARTH (NOT FORMED) ————— 3"
 - CONCRETE AGAINST EARTH (FORMED AND TROWELED) ——— 2"
 - WALL AND CURB ————— 1-1/2"
 - SLAB ON GRADE ————— CENTER
- WELDING OF REINFORCING STEEL SHALL COMPLY WITH AWS D1.4. ALL BARS TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.
- SUBMIT REINFORCING STEEL SHOP DRAWING TO ARCHITECT FOR APPROVAL.

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A6 AND SHALL BE FABRICATED ACCORDING TO AISC PRACTICE AND SPECIFICATION FOR BUILDING.
 - MATERIALS: PROVIDE STRUCTURAL STEEL COMPLYING WITH ASTM STANDARD AS FOLLOWS, U.N.O.
 - A. ALL WIDE FLANGES ————— ASTM A992, GRADE 50
 - B. TUBES (HSS ROUNDS, HSS TUBES) ——— ASTM A500, GRADE B (46ksi)
 - C. PIPES ————— ASTM A53, GRADE B (35ksi)
 - D. CHANNELS, ANGLES, PLATES ——— ASTM A36 (U.O.N.)
 - E. ANCHOR BOLTS ————— ASTM A307
 - F. THREADED ROD ————— ASTM A36
- BOLTS
 - A. UUSE ASTM A307 BOLTS, NUTS AND WASHERS UNLESS NOTED OTHERWISE.
 - B. STANDARD BOLT HOLE SHALL BE 1/16" LARGER IN DIAMETER THAN NORMAL BOLT DIAMETER, U.N.O.
 - C. OVERSIZE BOLTS HOLES FOR ANCHOR BOLTS IN BASE PLATE MAY BE ALLOWED BY PROVIDING 3-1/2" SQUARE PLATE WASHERS UNDER NUT U.N.O. THICKNESS OF PLATE WASHER SHALL BE 0.5 TIMES THE DIAMETER OF ANCHOR BOLTS U.N.O. USE 5/16 INCH FILLET WELD AROUND PLATE WASHER U.N.O.
- WELDING
 - A. ALL WELDS SHALL BE DONE USING THE SHIELDED ELECTRIC ARC PROCESS BY AWS CERTIFIED WELDERS USING AWS D1.1 - LOW - HYDROGEN E70XX ELECTRODES.
 - B. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE SYSTEMS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CHARPY V - NOTCH TOUGHNESS OF 20FT-LBS AT MINUS 20 DEGREES F. AS DETERMINED BY AWS CLASSIFICATION.
 - C. CONTINUOUS INSPECTION IS REQUIRED FOR ALL FIELD AND SHOP WELDING BY AN INSPECTOR APPROVED BY GOVERNING CODE - AUTHORITY (DSA FOR PUBLIC SCHOOLS)
 - D. WELDERS SHALL BE QUALIFIED AND CERTIFIED BY THE GOVERNING CODE AUTHORITY. (DSA FOR PUBLIC SCHOOLS)
- STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED U.N.O. (SEE ARCHITECTURAL DRAWINGS FOR OTHER CONDITION)
- STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION.

GENERAL

- ALL WORKS AND MATERIALS SHALL CONFORM TO THE 2016 CALIFORNIA BUILDING CODE AND ALL LOCAL CODES.
- STRUCTURAL DRAWINGS ARE PARTS OF CONTRACT DOCUMENTS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND COORDINATE WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER CONSULTANTS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS, AND SHALL NOTIFY THE ARCHITECT AND ENGINEERS OF ANY DISCREPANCIES.
- STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. CONTRACTOR SHALL PROVIDE MEANS AND METHODS AS REQUIRED. PROVIDE ADEQUATE BRACING, SHORING, TEMPORARY STRUCTURES AND PARTIALLY COMPLETED PORTIONS OF WORKS COMPLYING WITH NATIONAL, STATE AND ALL LOCAL SAFETY ORDINANCES.
- TYPICAL DETAILS AND SCHEDULES MAY NOT BE REFERENCED ON DRAWINGS. CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH ALL TYPICAL DETAILS AND SCHEDULES PRIOR TO PROCEED WITH WORK.
- CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE.
- THE CONTRACTOR SHALL NOT DEVIATE FROM THE TENDERED DOCUMENTS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND ENGINEERS.
- JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- FOR ALL LOCATIONS OF DATUM ELEVATION 0.0; REFER TO ARCHITECTURAL AND SITE DRAWINGS. ALL ELEVATIONS INDICATED ON THE STRUCTURAL DRAWINGS ARE MEASURED WITH RESPECT TO THIS DATUM, UNLESS NOTED OTHERWISE.

DESIGN LOADS

- WIND DESIGN LOADS
 - ULTIMATE DESIGN WIND SPEED.....115 MPH
 - EXPOSURE..... C
 - K_z = .85
 - K_{z1} = 1.0
 - K_d = .85
 - INTERNAL WIND COEFFICIENT..... +/- .18

COMPONENTS AND CLADDING (LRFD)
ASCE 7-10 DIRECTIONAL PROCEDURE. C&C - CHAPTER 30, PART 4
THIS PROCEDURE APPLIES TO WIND LOADS OF ENCLOSED BUILDINGS, AS DEFINED IN SECTION 26.2

EFFECTIVE WIND AREA (sf)	LOAD CASE	ZONE 1		ZONE 2		ZONE 3		ZONE 4		ZONE 5	
		LOAD CASE 1	LOAD CASE 2	LOAD CASE 1	LOAD CASE 2	LOAD CASE 1	LOAD CASE 2	LOAD CASE 1	LOAD CASE 2	LOAD CASE 1	LOAD CASE 2
10		-38.6	NA	-60.6	NA	-82.6	NA	-26.4	26.4	-48.4	26.4
500		-27.0	NA	-42.4	NA	-57.8	NA	-21.1	18.5	-29.0	18.5

EFFECTIVE WIND AREA (sf)	WINDWARD PARAPET (LOAD CASE A)		LEEWARD PARAPET (LOAD CASE B)	
	WINDWARD FACE @ ZONE 4 @ ZONE 6 @ ZONE 2 @ ZONE 3	LEEWARD FACE @ ZONE 4 @ ZONE 5	WINDWARD FACE @ ZONE 4 @ ZONE 3	LEEWARD FACE @ ZONE 4 @ ZONE 5
10	28.3	28.3	-65.0	-88.5
500	19.8	19.8	-45.5	-61.9

EFFECTIVE WIND AREA (sf)	LOAD CASE	P _{wh}				P _s			
		@ZONE 2	LOAD CASE 1	LOAD CASE 2	LOAD CASE 2	@ZONE 4	LOAD CASE 1	LOAD CASE 2	LOAD CASE 2
10		-60.6	NA	-95.0	NA	-26.4	26.4	-48.4	26.4
500		-60.6	NA	-85.5	NA	-21.1	18.5	-29.0	18.5

- SEISMIC DESIGN LOADS
 - RISK CATEGORY.....III
 - SITE CLASS.....D
 - SEISMIC DESIGN CATEGORY.....D
 - IMPORTANCE FACTOR.....1.25
 - S_s = 0.871 Fa=1.152
 - S₁ = 0.339 Fv=1.723
 - S_{0.1} = 0.669
 - S_{0.01} = 0.389 LATITUDE = 32.833; LONGITUDE = -116.998

BLDG ANALYSIS PROCEDURE
ALL EQUIVALENT LATERAL FORCE

BLDG	DIRECTION	SEISMIC FORCE RESISTING SYSTEM	R	RHO	Cd	OMEGA	Cs
LRG BUILDING	BOTH	LFWSW	6.5	1.0	4.0	2.5	0.129 (LRFD)

"LFWSW" - LIGHT FRAMED WOOD SHEAR WALL
VERTICAL IRREGULAR: 4/TABLE 12-2-3, IN-PLANE DISCONTINUITY IN VERTICAL LATERAL FORCE RESISTING ELEMENT.

- ROOF LIVE LOAD = 20PSF

FOUNDATION

- FOUNDATION DESIGN IS BASED ON ORIGINAL GEOTECHNICAL REPORT PREPARED BY: NINYO & MOORE PROJECT NUMBER 108775001, DATED MAY 30, 2019
- ALLOWABLE DESIGN VALUE :

BEARING PRESSURE	3000 PSF
PASSIVE PRESSURE	300 PCF (LEVEL)
FRICTION	0.20
SOIL WEIGHT	120 PCF
- FOOTING SHALL REST ON COMPACTED SOIL. SEE GEOTECHNICAL REPORT FOR OVEREXCAVATION AND RECOMPACTION REQUIREMENTS. AND 15/S1.1
- NO BACKFILL SHALL BE DONE AGAINST FOUNDATION AND RETAINING WALL UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS DESIGN STRENGTH. ADEQUATELY SHORE RETAINING WALLS DURING BACKFILL.
- CONTRACTOR SHALL BE RESPONSIBLE TO ADEQUATELY PROTECT ALL EXCAVATION SLOPES. WHERE NECESSARY, SHEETING AND SHORING OF EXCAVATION SHALL BE PROVIDED WITH ALL REQUIRED TIE BACKS AND BRACING.
- METHOD EMPLOYED IN ALL SHEETING AND SHORING SHALL BE DESIGNED BY A LICENSED PROFESSIONAL CIVIL ENGINEER.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-118742 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02.05.20

Date _____
Revision _____

WSI
WELSH STRUCTURES, INC.
12722 BARRETT LANE
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Professional Engineer

W studios
ARCHITECTURE + ENGINEERING
515 Encinitas Blvd. Ste. 201, Encinitas, California 92024
Telephone: (760)753-8800 Fax: (760)452-7941

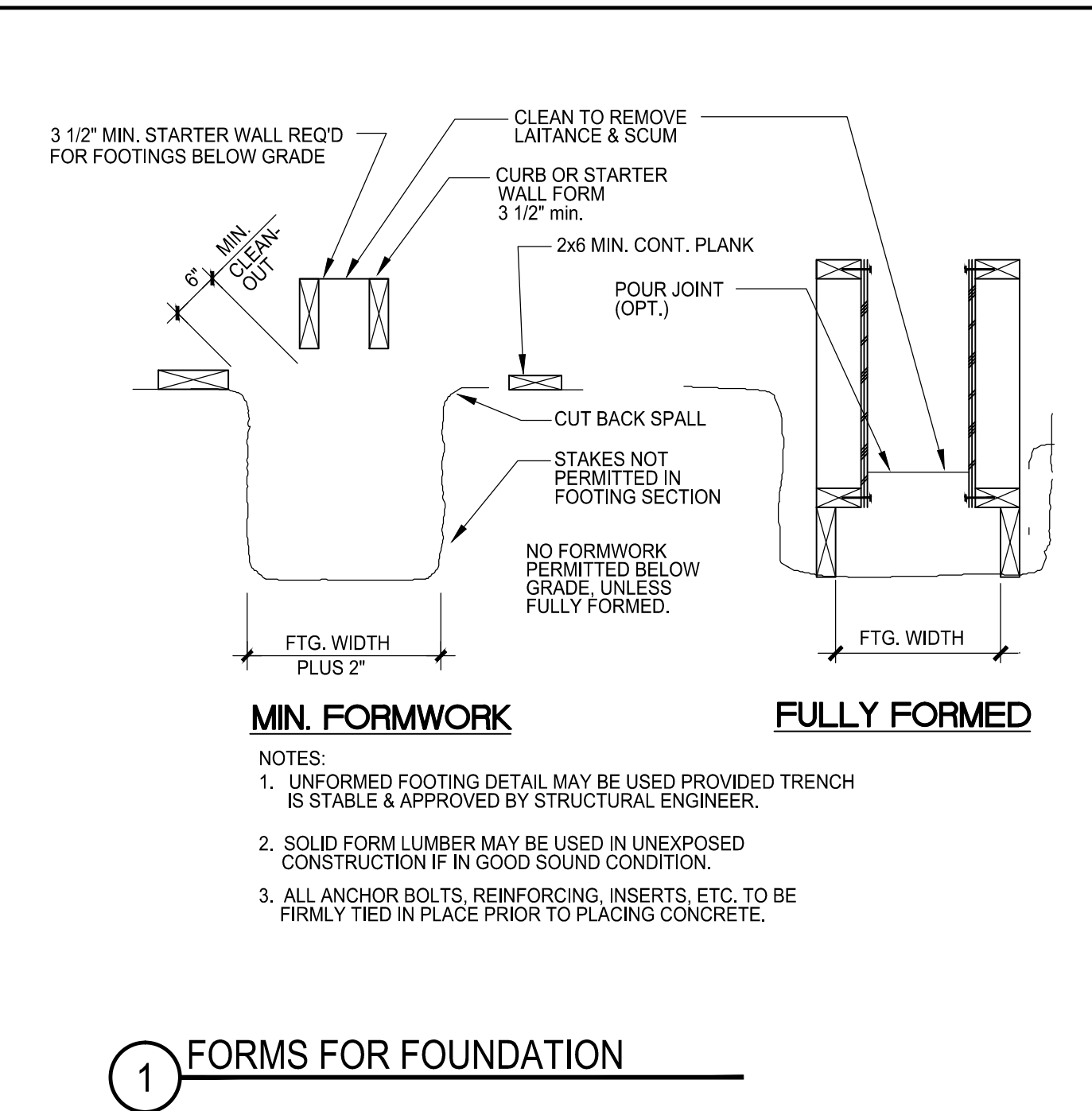
Professional Engineer
C-28036
STATE OF CALIFORNIA

PROSPECT AVE - PRIDE ACADEMY
LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

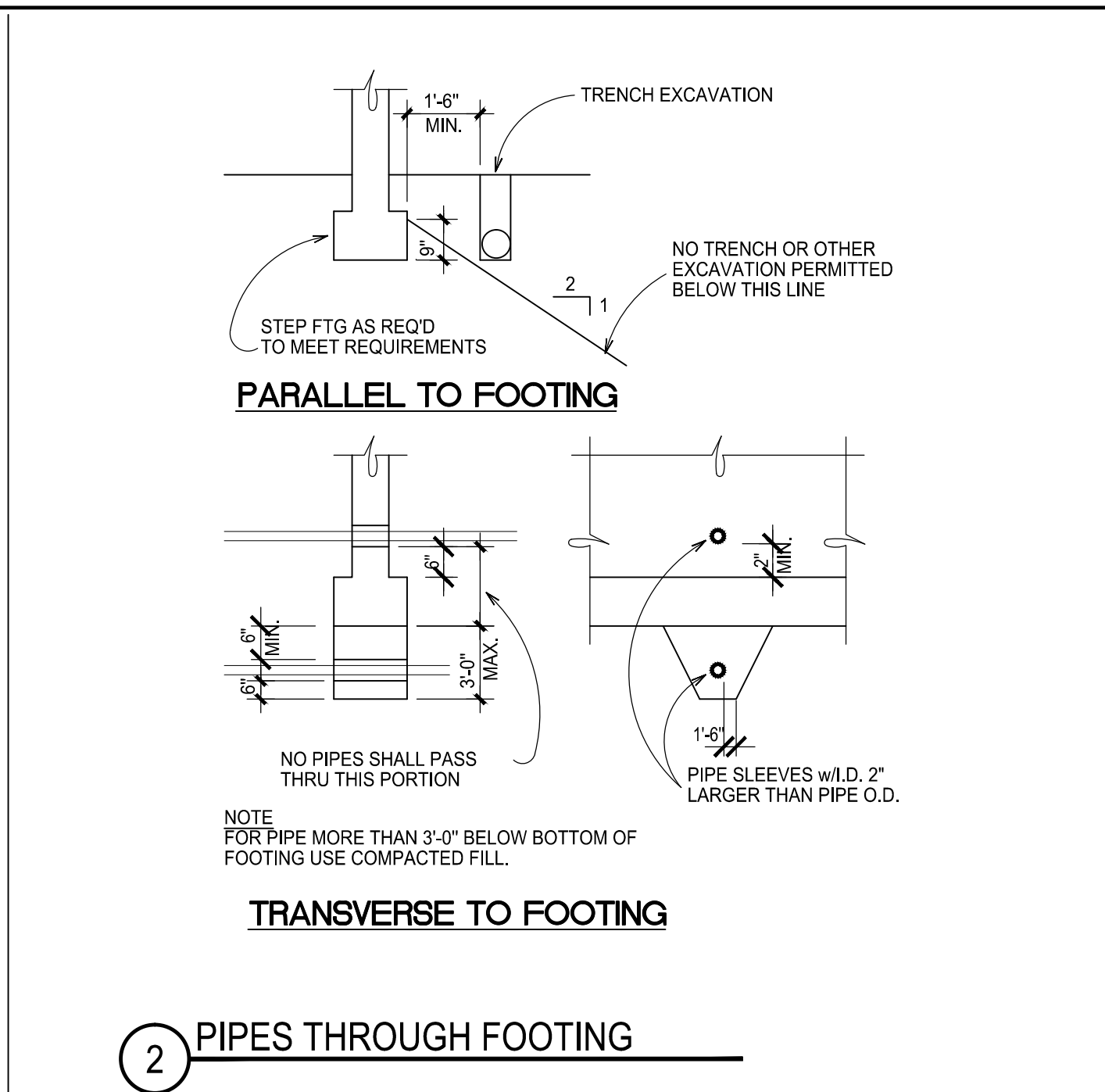
GENERAL NOTES

Drawn: MR
Checked: SW
Date: JANUARY 14, 2020
Job: SSD-PA-03

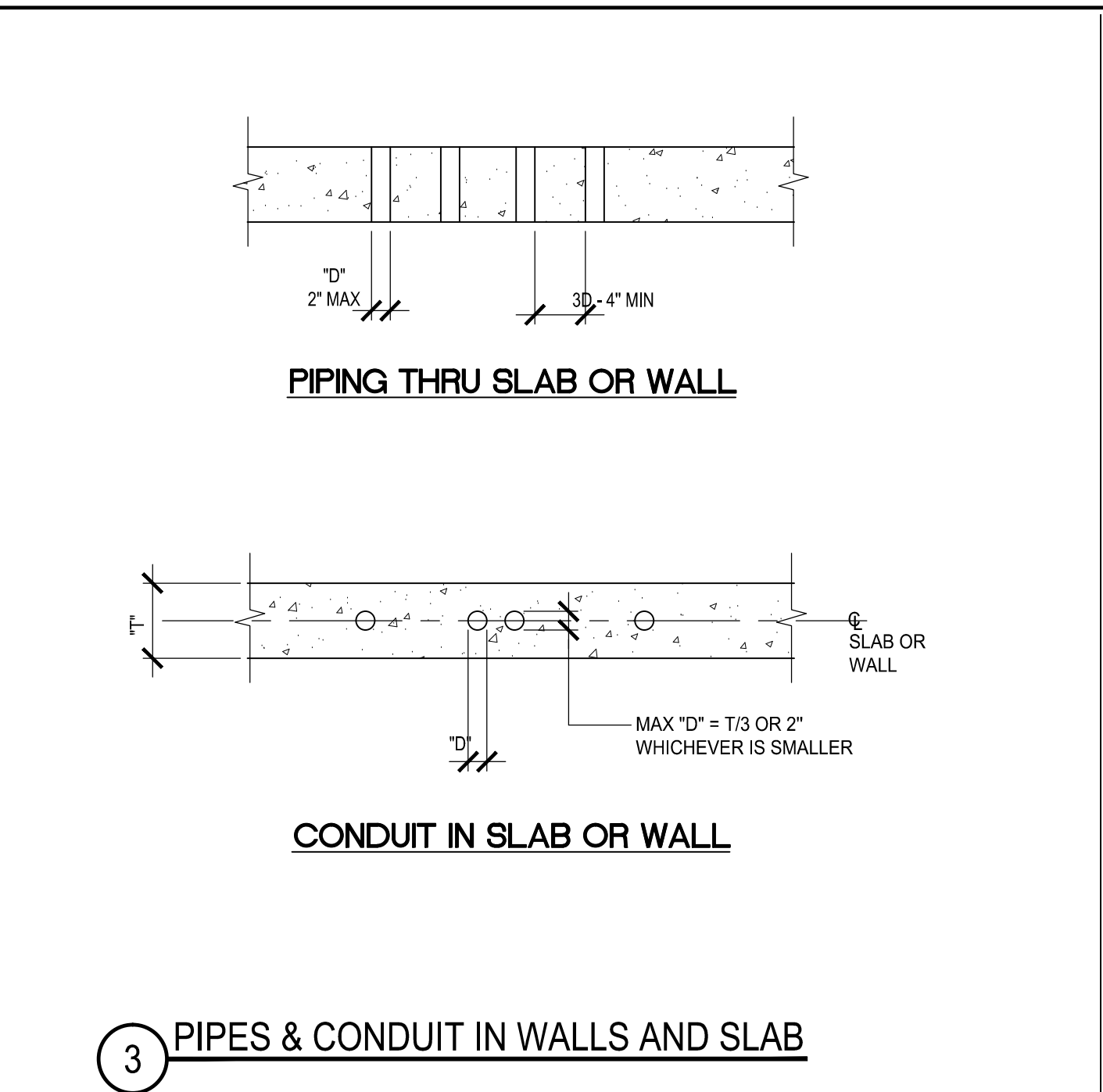
S0.1



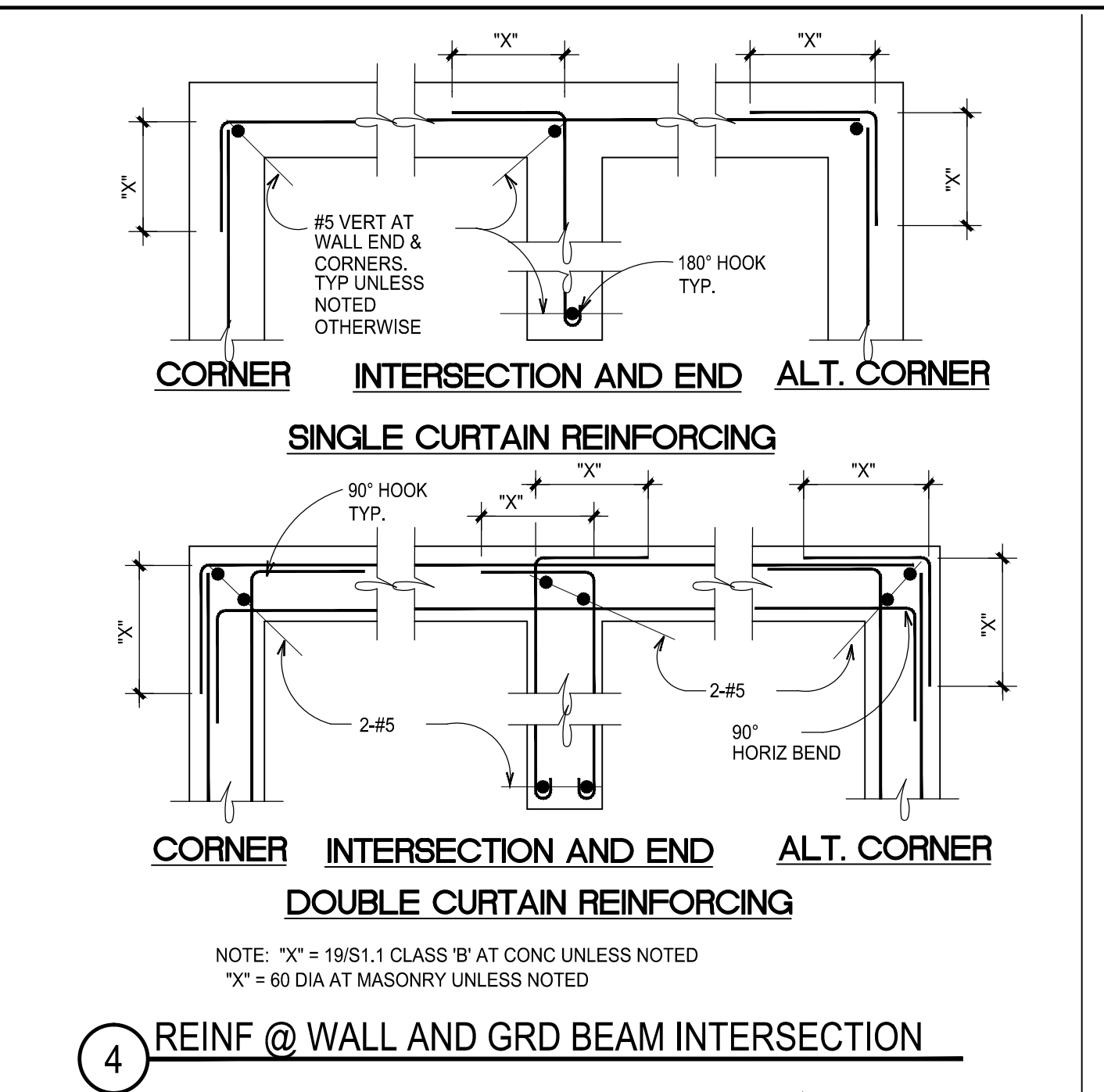
1 FORMS FOR FOUNDATION



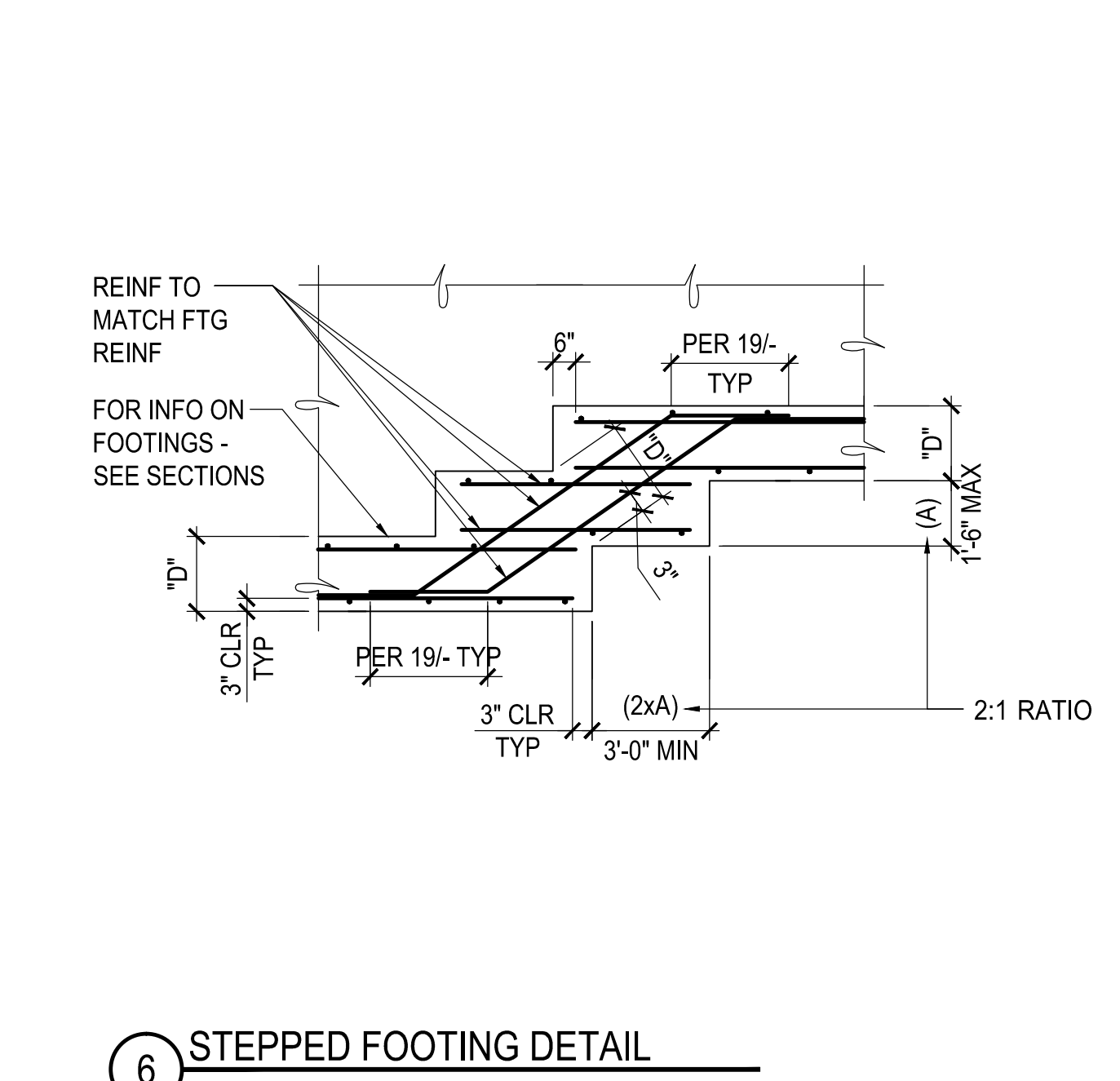
2 PIPES THROUGH FOOTING



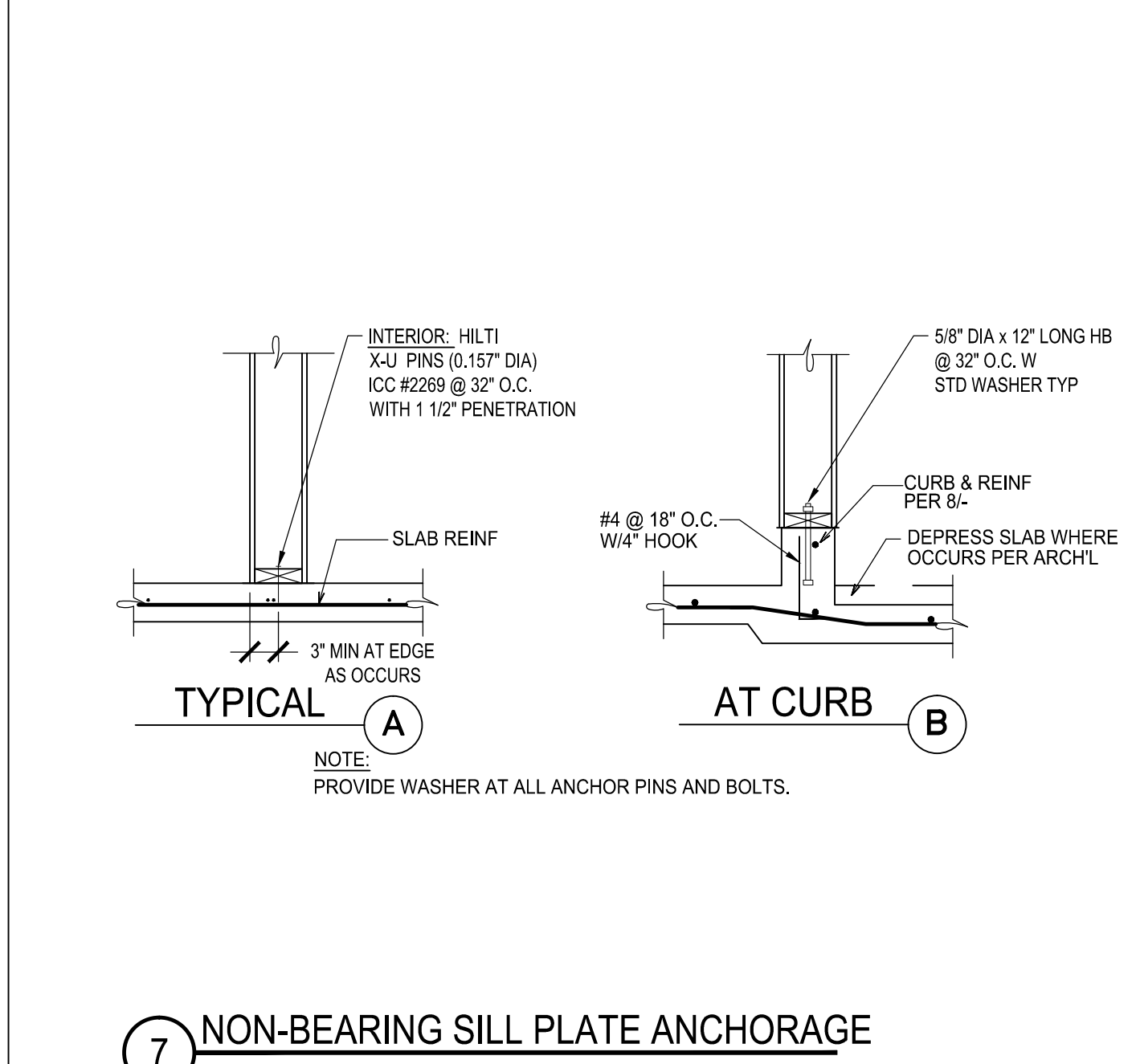
3 PIPES & CONDUIT IN WALLS AND SLAB



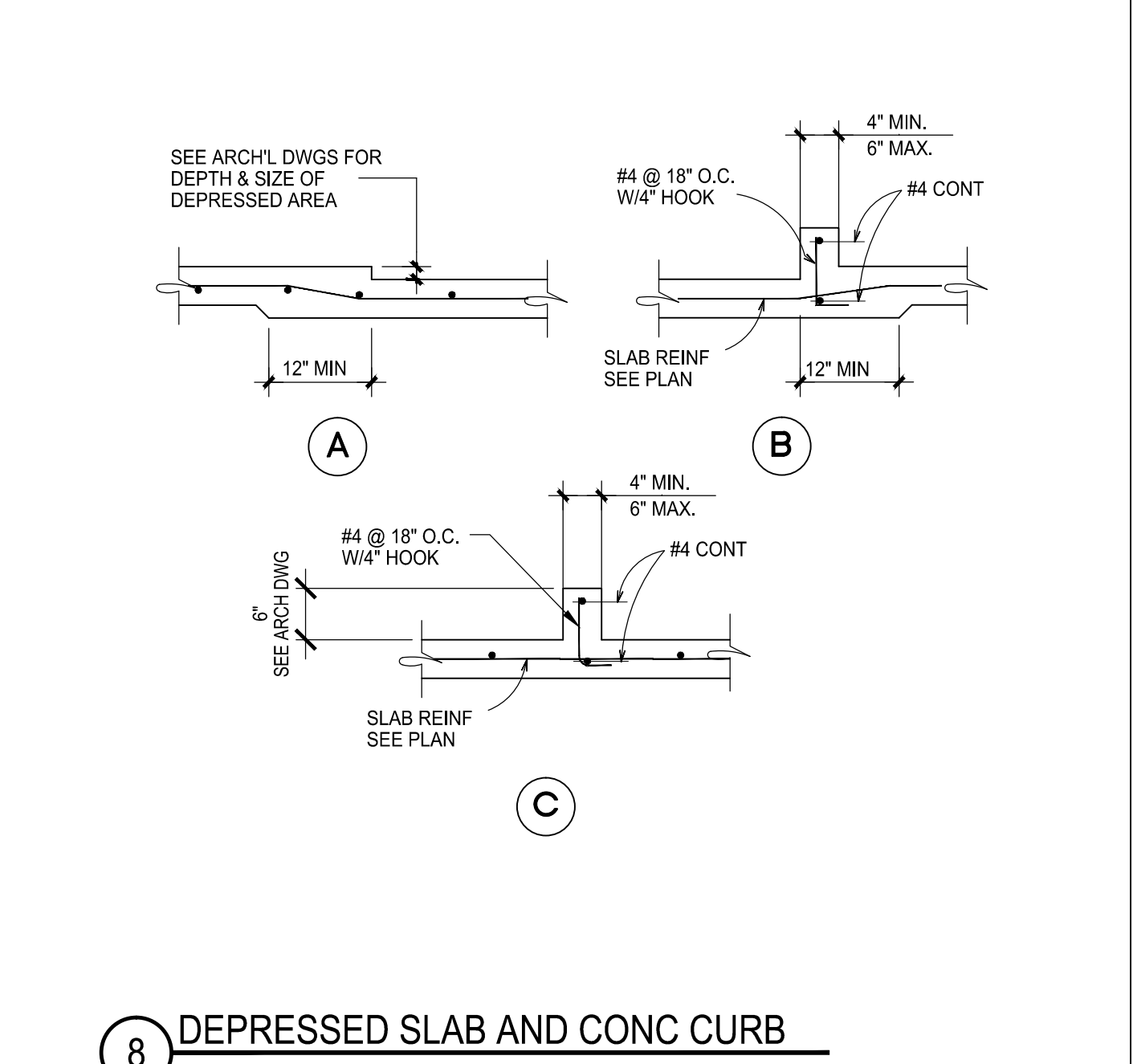
4 REINF @ WALL AND GRD BEAM INTERSECTION



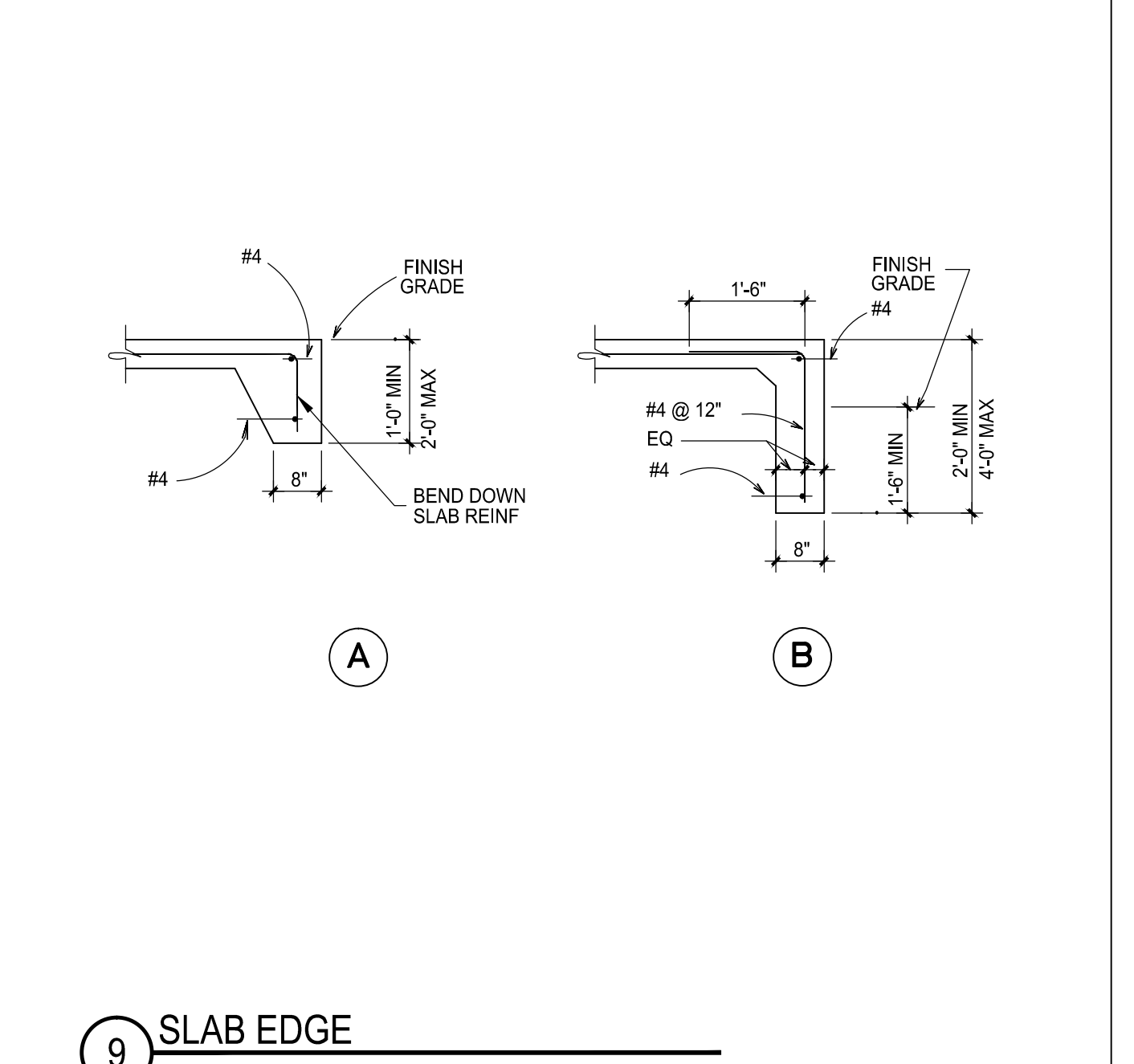
6 STEPPED FOOTING DETAIL



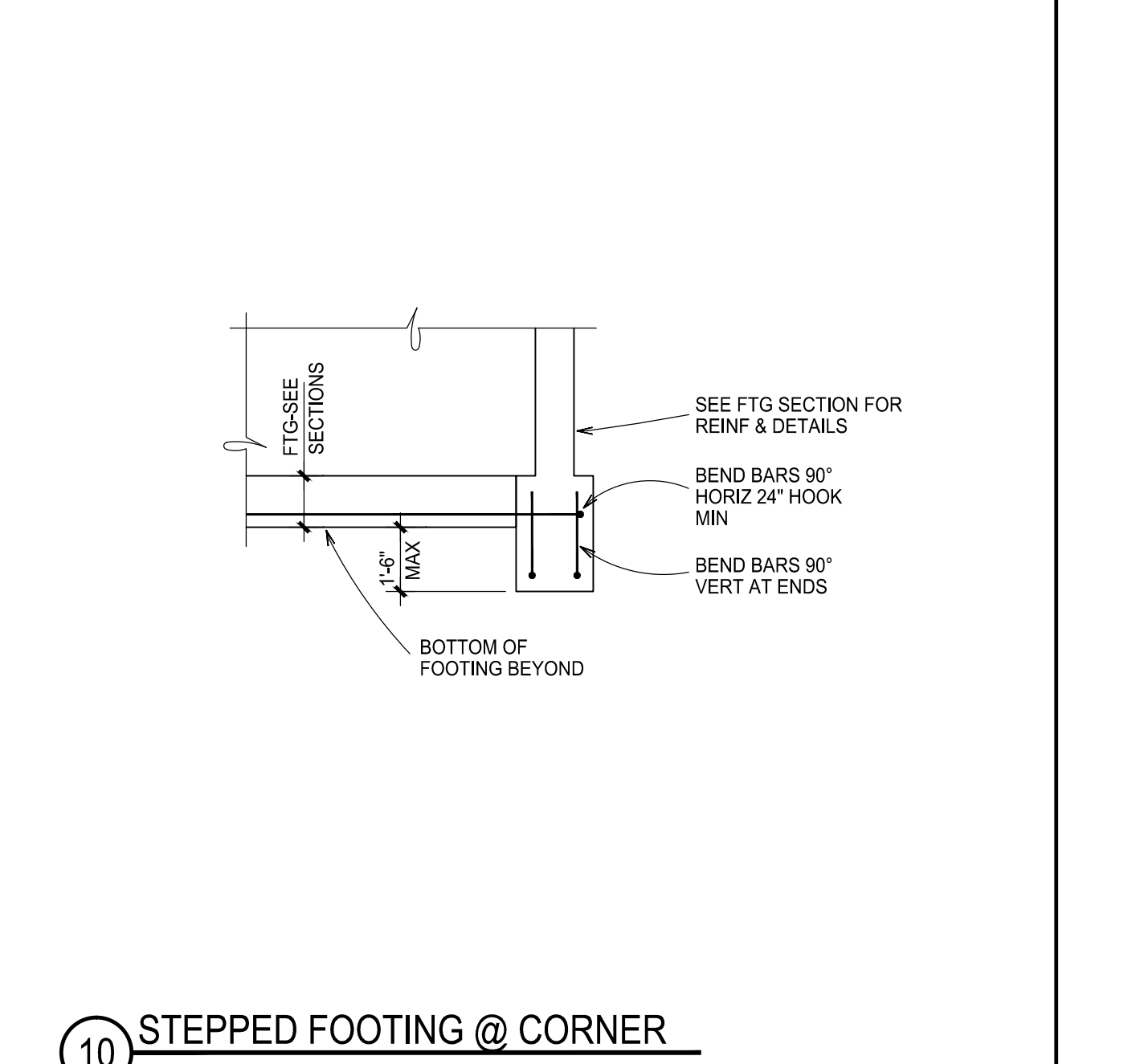
7 NON-BEARING SILL PLATE ANCHORAGE



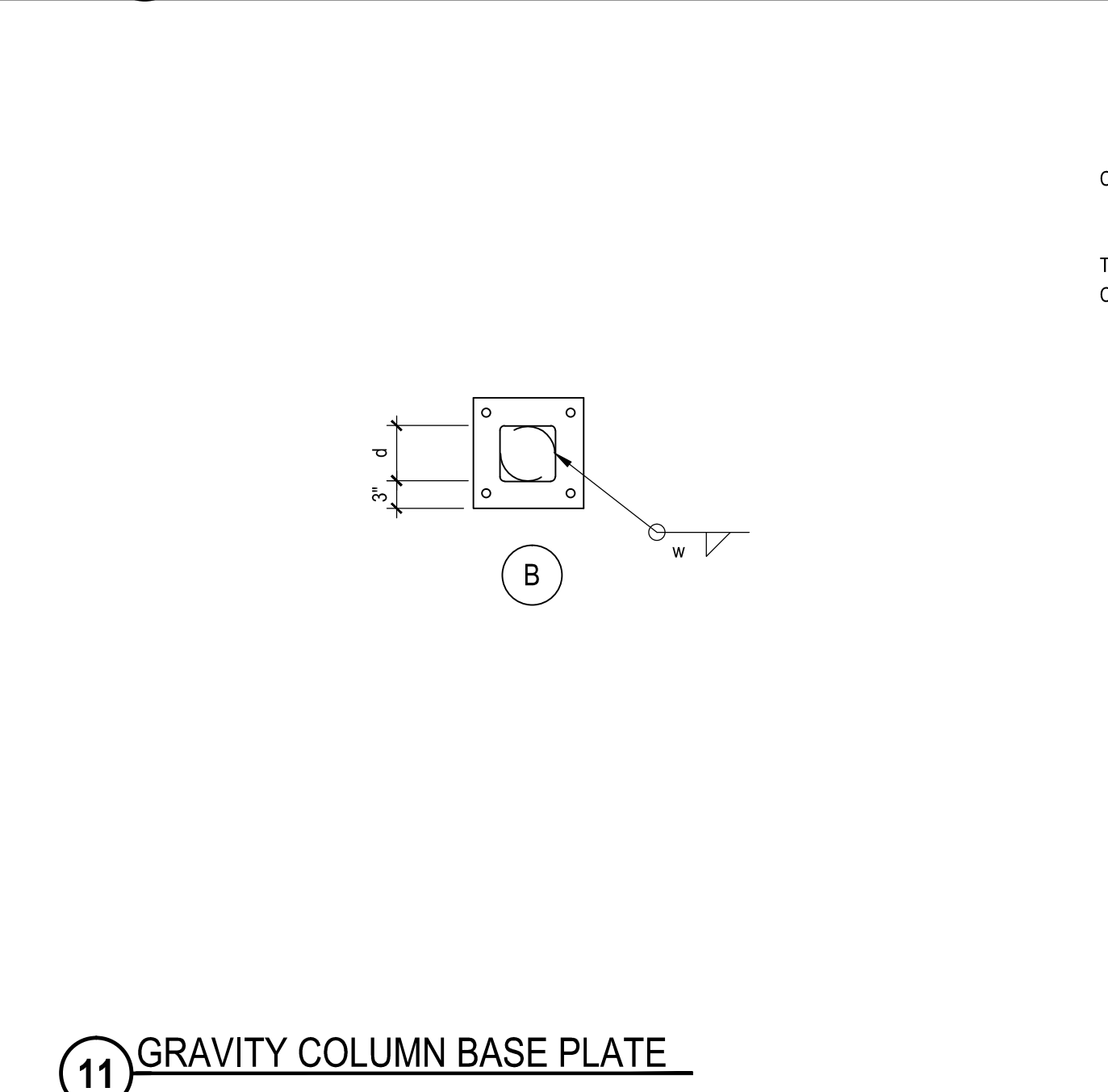
8 DEPRESSED SLAB AND CONC CURB



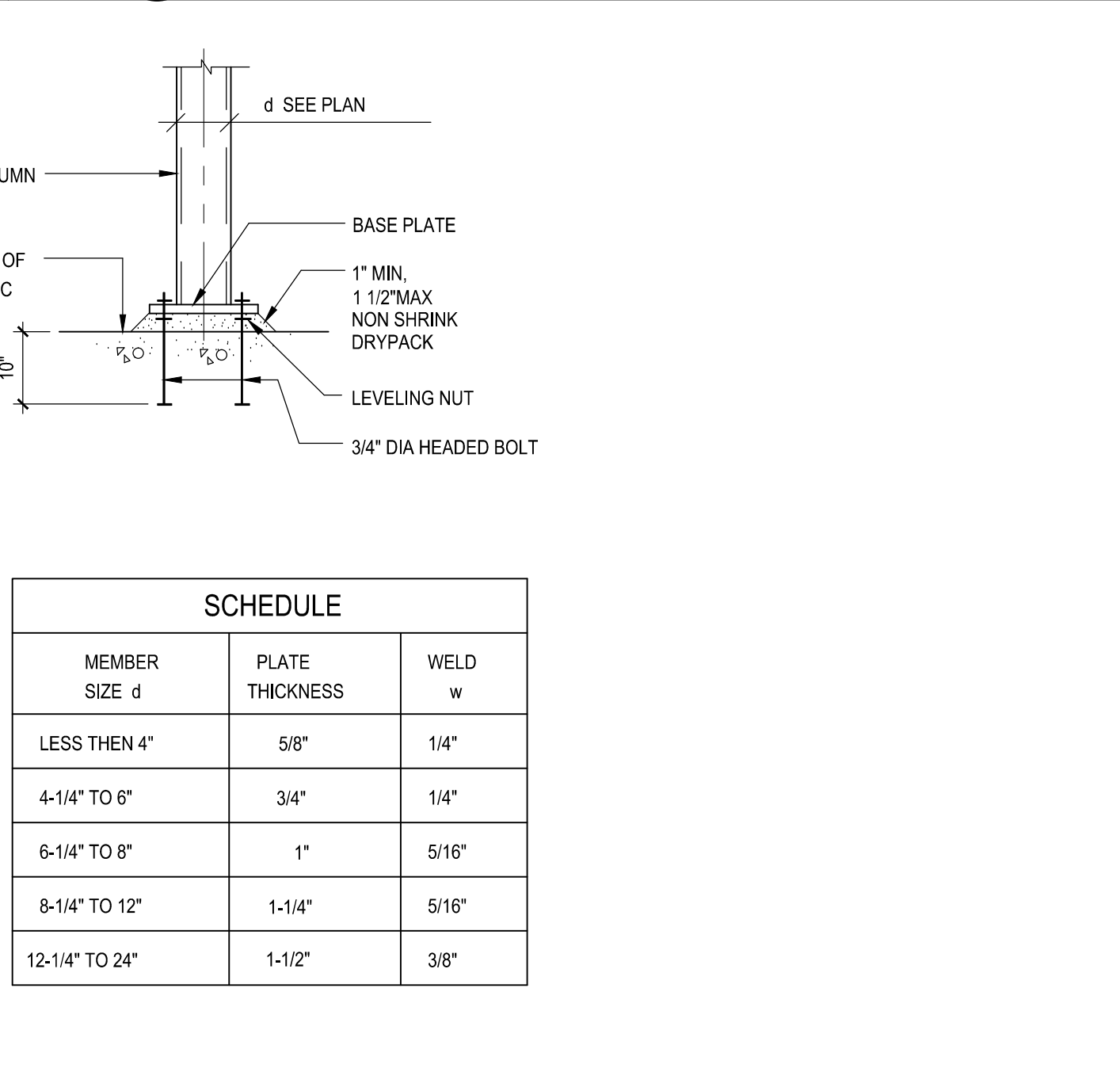
9 SLAB EDGE



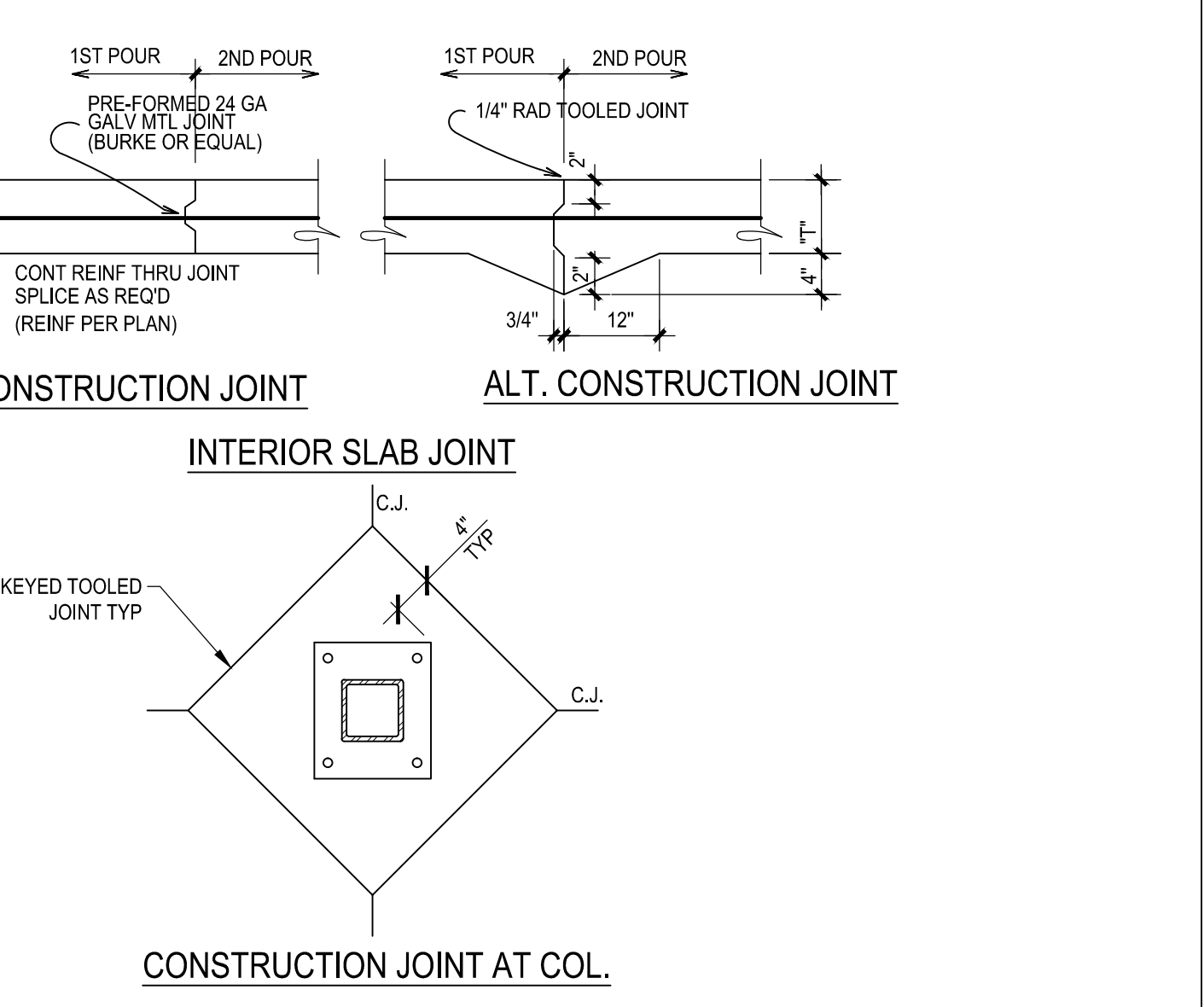
10 STEPPED FOOTING @ CORNER



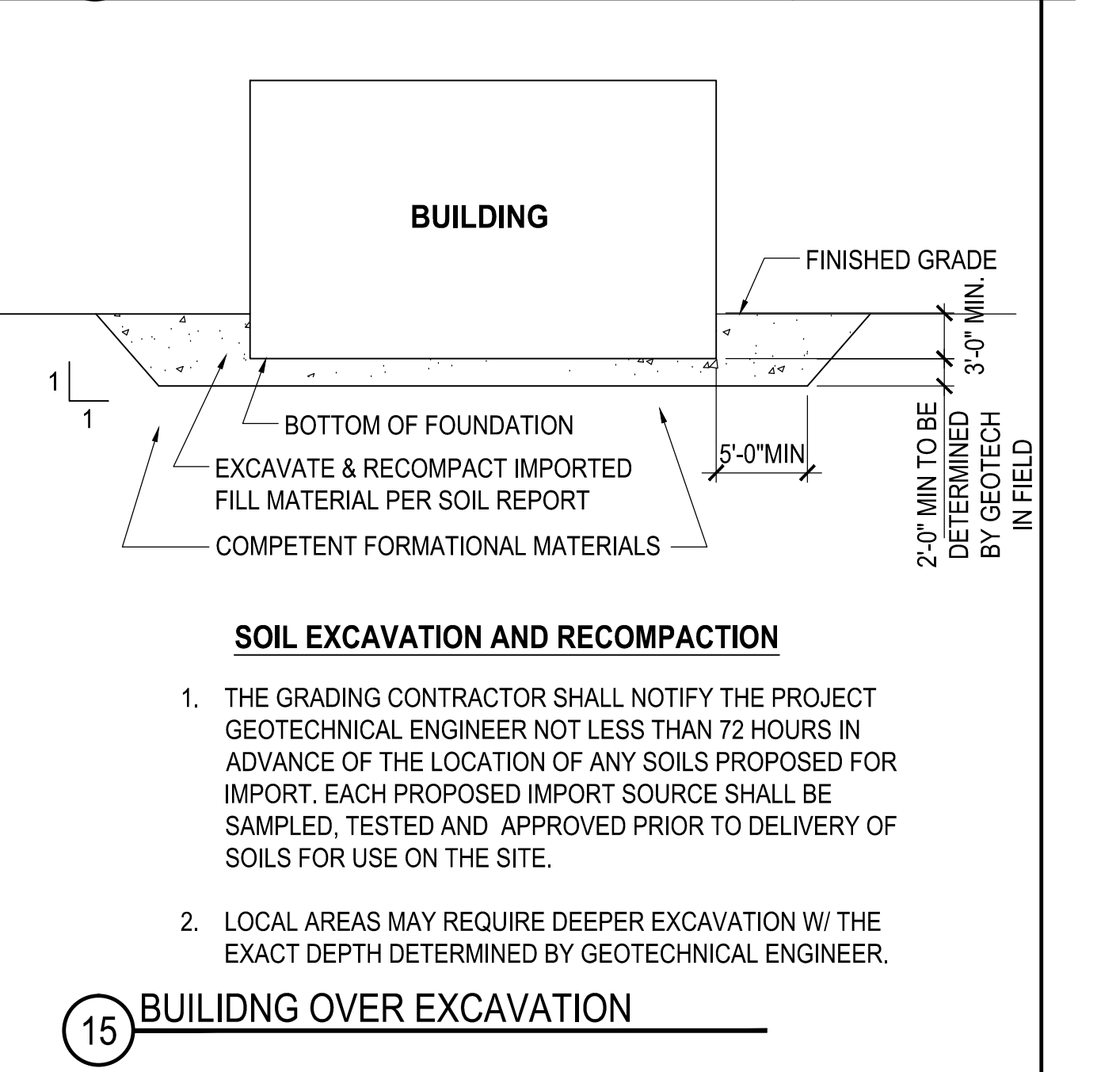
11 GRAVITY COLUMN BASE PLATE



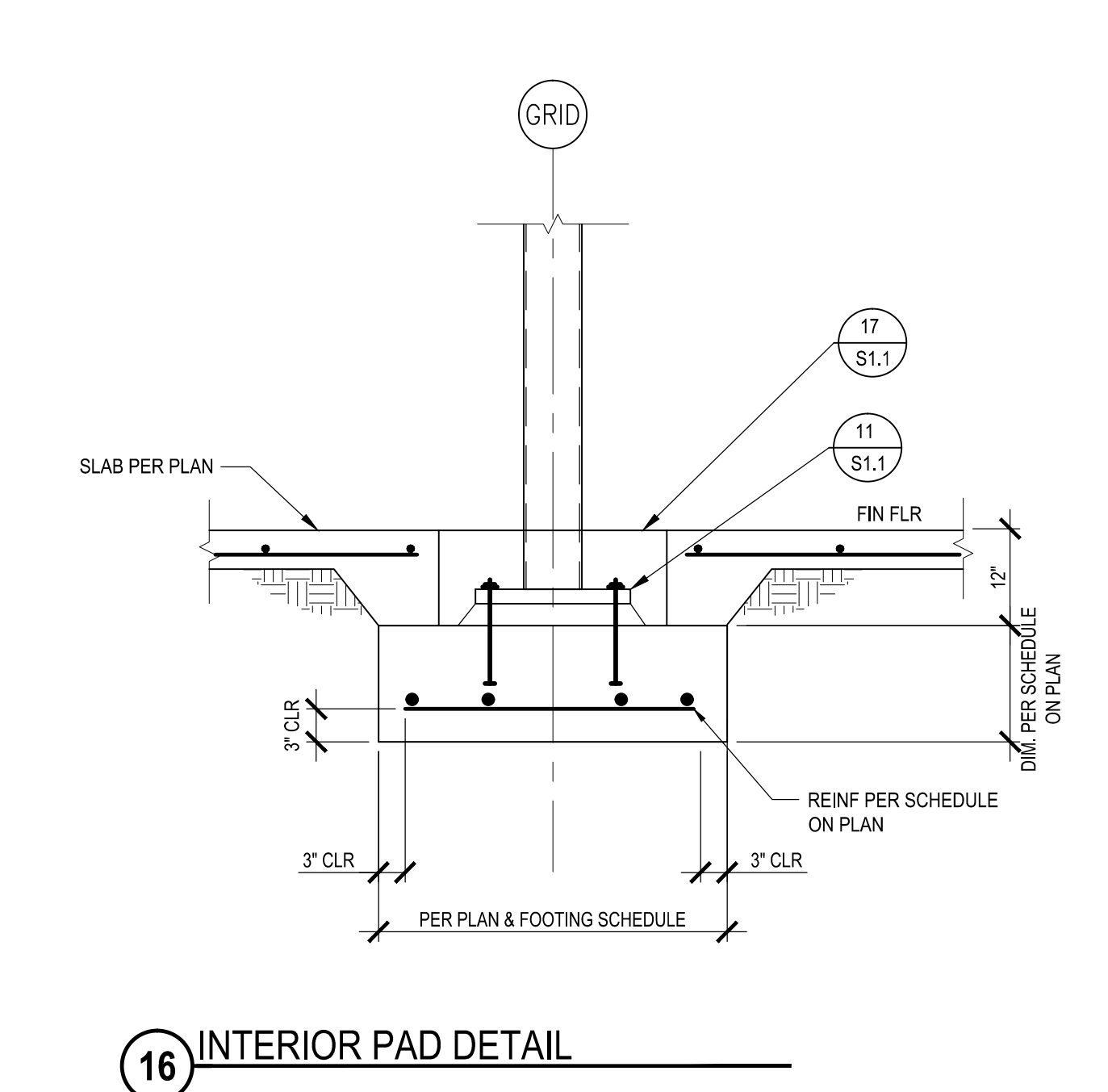
13 REINFORCING STEEL DETAIL



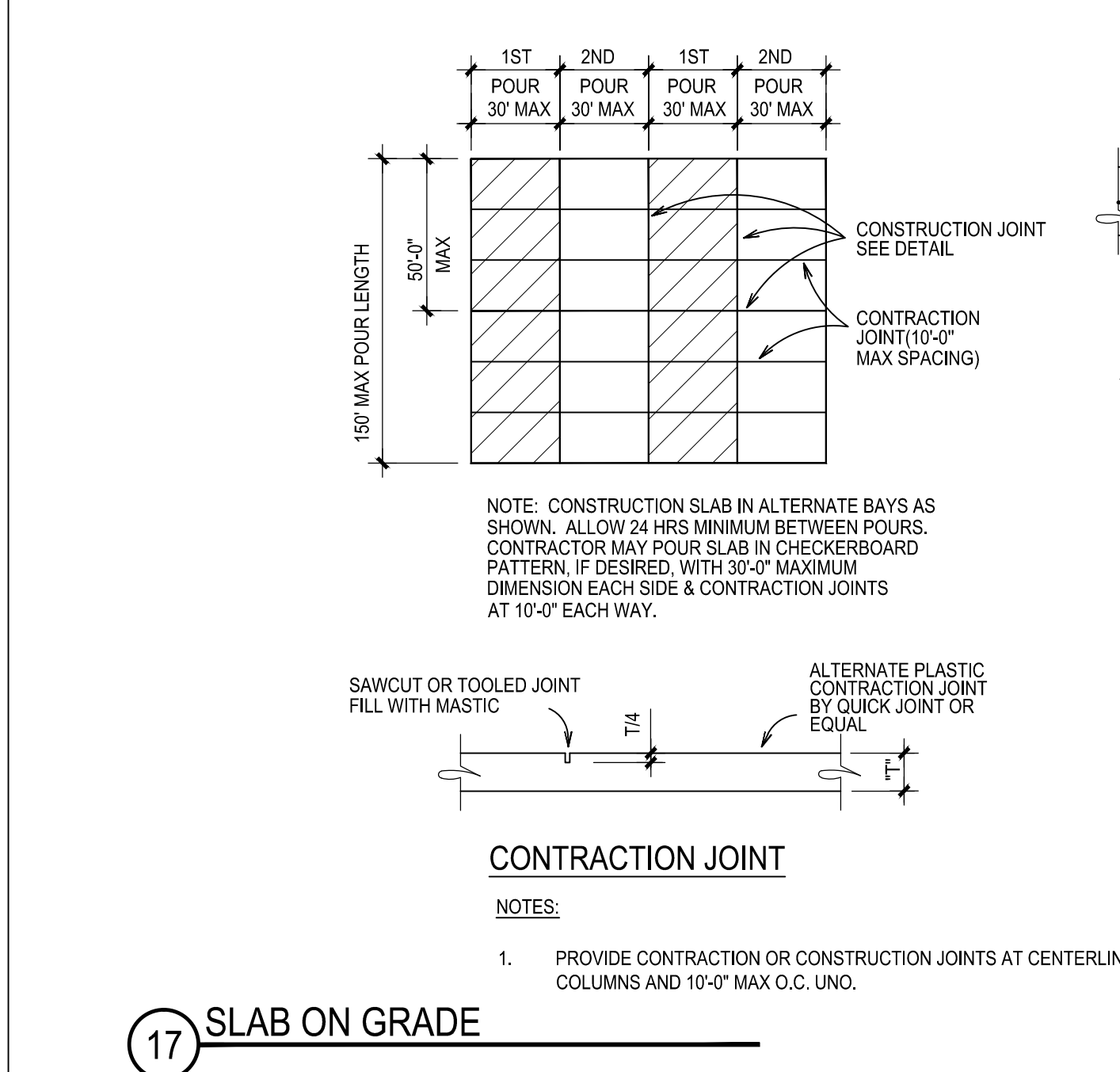
14 PIPE THRU FOOTING



15 BUILDING OVER EXCAVATION



16 INTERIOR PAD DETAIL



17 SLAB ON GRADE



19 REINFORCING BAR SPLICE SCHEDULE IN CONCRETE

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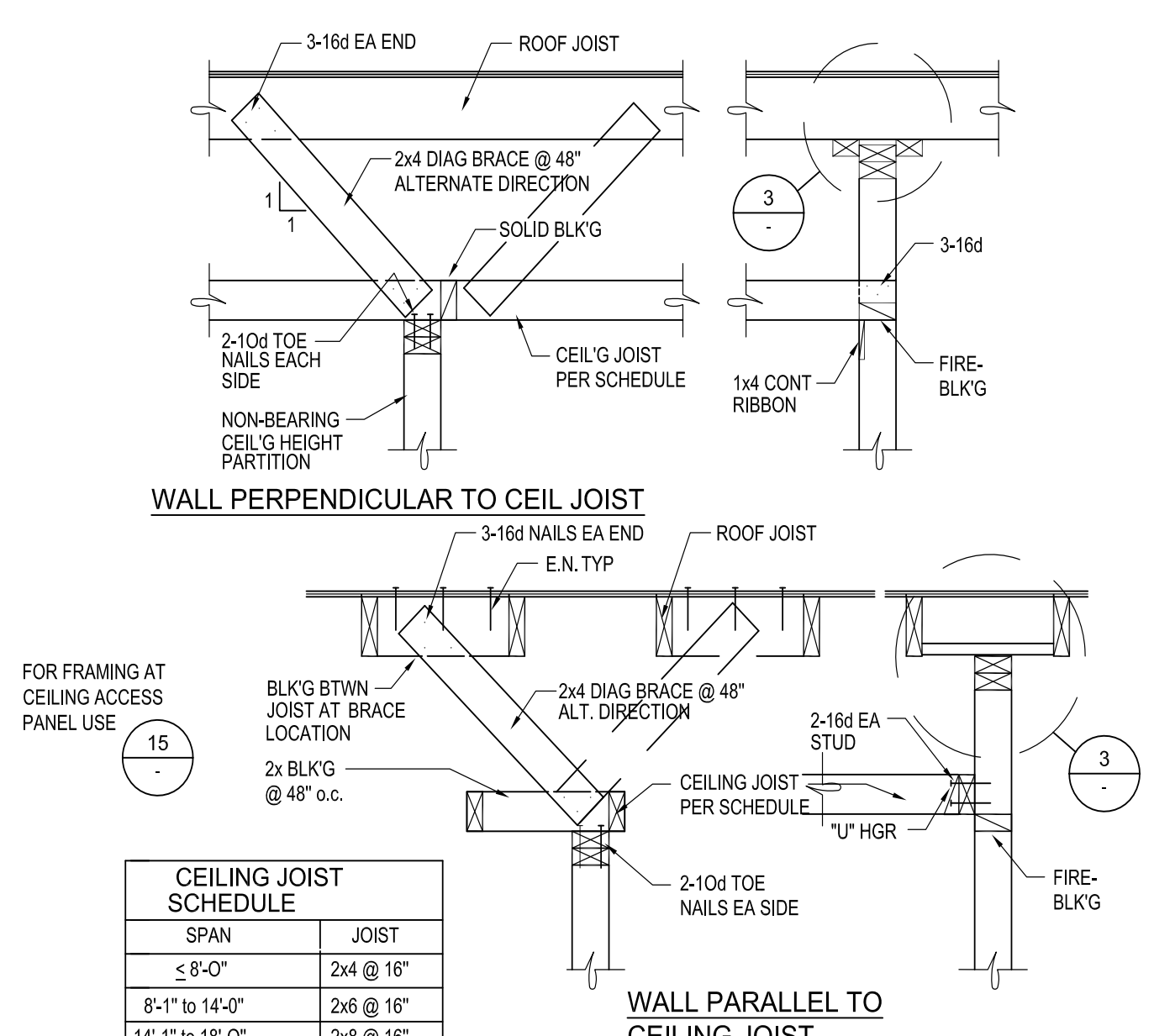
TYPICAL CONCRETE DETAILS

Drawn: MR
Checked: SW
Date: JANUARY 14, 2020
Job: SSD-PA-03
S1.1

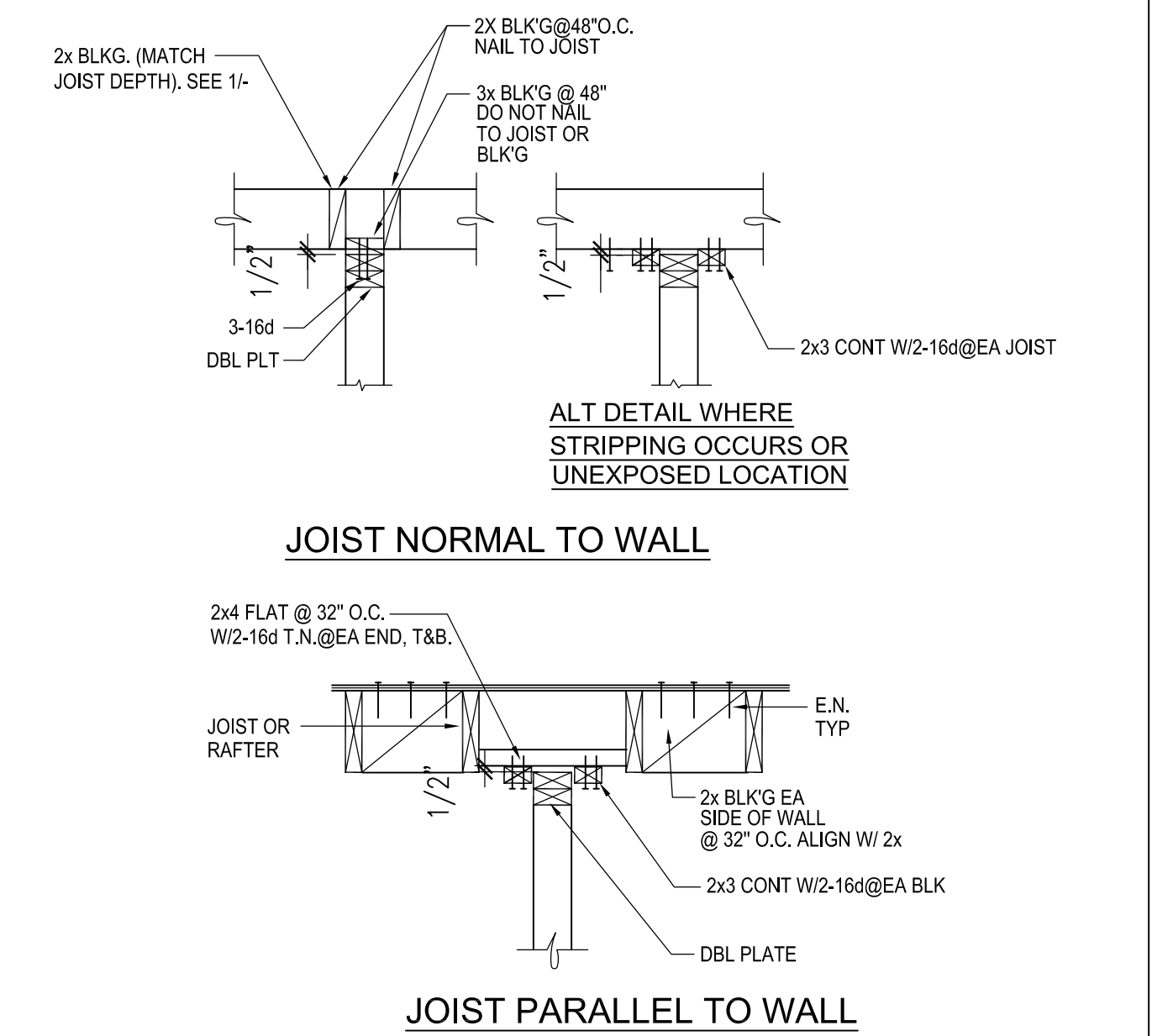
JOIST OR RAFTER TO SIDE OF STUD:

F DEEP JOIST OR LESS: 3-16d
EACH ADDITIONAL 4" OF DEPTH: 1-16d
BRIDGING TO JOIST: 2-8d
BLOCKING BETWEEN JOISTS OR RAFTERS:
TOE NAIL EACH SIDE EACH END: 2-10d
BLOCKING BETWEEN STUDS:
TOE NAIL: 4-8d
OR END NAIL: 2-16d
1" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL: 2-8d
WIDER THAN 1" SUBFLOOR TO EA JOIST, FACE NAIL: 2-16d
2" SUBFLOOR TO JOIST OR ORDER BLIND & FACE NAIL: 2-16d
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL: 16d @ 16"
SOLE PLATE TO JOIST OR BLKG: 16d @ 16"
BRACED WALL PANELS: 16d @ 16"
TOP PLATE TO STUD, END NAIL: 2-16d
STUD TO SOLE PLATE:
TOE NAIL: 4-8d
OR END NAIL: 2-16d
DOUBLE STUDS, FACE NAIL: 16d @ 24"
DOUBLE TOP PLATES, FACE NAIL: 16d @ 16"
DOUBLE TOP PLATES, LAP SPICE: 3-16d
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE:
TOE NAIL: 3-8d
RIM JOIST TO TOP PLATE: 3-8d
TOE NAIL: 4-8d
TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL: 16d @ 16"
CONTINUOUS HEADER, TWO PIECES - ALONG EA. EDGE: 3-8d
CEILING JOIST TO PLATE, TOE NAIL: 3-8d
CONTINUOUS HEADER TO STUD, TOE NAIL: 4-8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL: 3-16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL: 3-16d
JOIST OR RAFTER AT ALL BEARINGS:
TOE NAIL EACH SIDE: 2-10d
1" BRACE TO EACH STUD & PLATE, FACE NAIL: 2-8d
1" SHEATHING OR LESS TO EA BEARING, FACE NAIL: 3-8d
WIDER THAN 1" SHEATHING TO EA BEARING, FACE NAIL: 3-8d
BUILT UP CORNER STUDS: 3-8d
BUILT UP ORDER AND BEAMS:
ALONG TOP AND BOTTOM OF BEAM OR JOIST: 20d @ 32"
AT ENDS AND AT EACH BRACE, STAGGER: 2-8d
2" PLANKS AT EA BEARING: 2-16d
COLLAR TIES TO RAFTERS, FACE NAIL: 3-16d
COMMON SHALL BE USED EXCEPT WHERE OTHERWISE STATED.

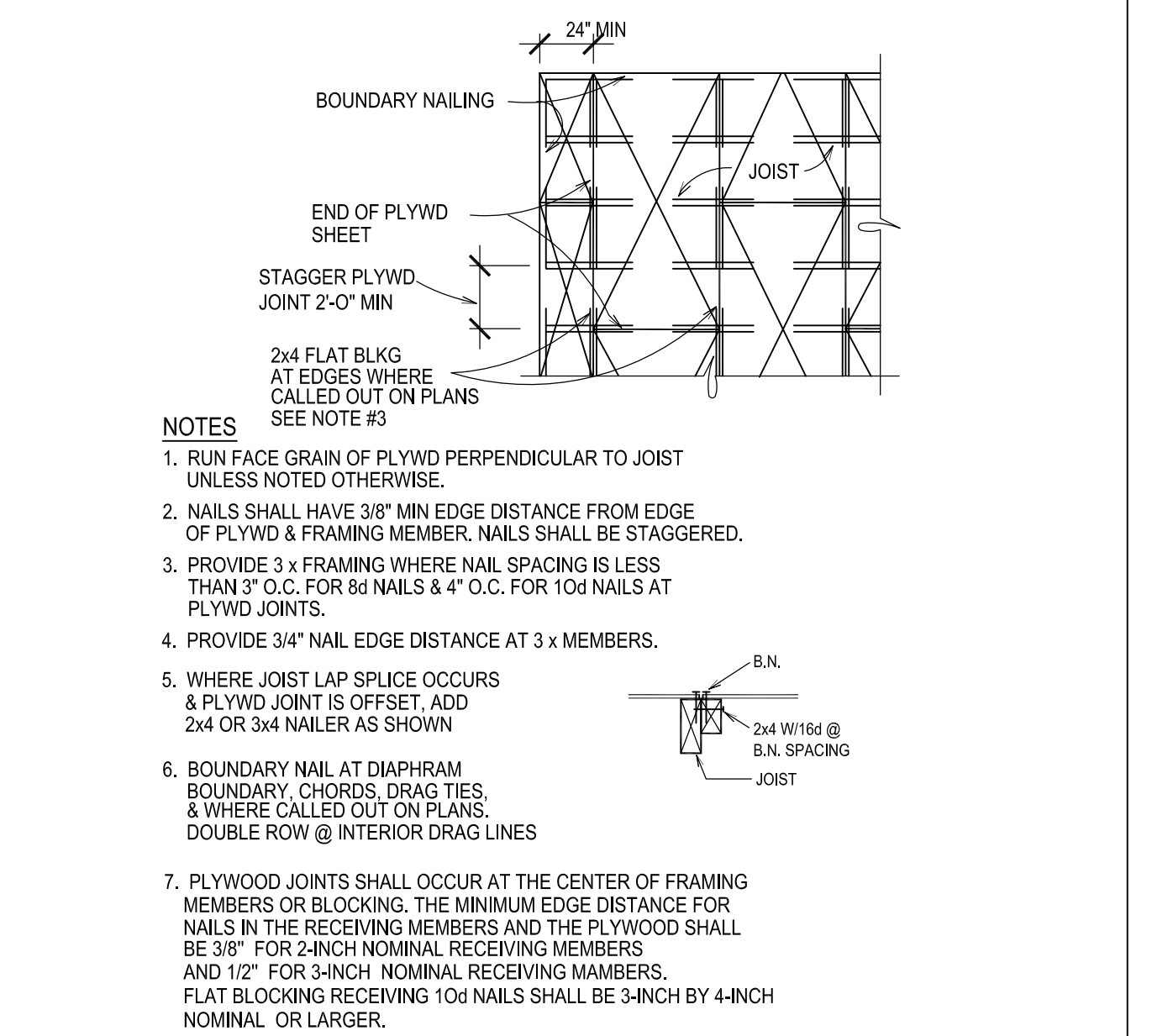
1 NAILING SCHEDULE



2 NON BEARING WALL BRACING



3 NON BEARING WALL SUPPORT



4 PLYWOOD ROOF DIAPHRAGM

WASHER SCHEDULE

BOLT SIZE	STEEL WASHERS		MALL IRON ROUND
	SQUARE	ROUND	
1/2"	3"x1/4"	3 1/2"x1/4"	3 1/2"x1/4"
5/8"	3"x1/4"	3 1/2"x1/4"	3 1/2"x5/16"
3/4"	3"x1/4"	3 1/2"x5/16"	3 1/2"x7/16"
7/8"	3 1/4"x5/16"	3 1/2"x3/8"	3 1/2"x7/16"
1"	4"x3/8"	4"x7/16"	4"x1/2"

NOTES:
1. WASHERS SHALL BE USED UNDER ALL NUT & BOLT HEADS BEARING ON WOOD.
2. WASHER SCHEDULE ABOVE SHALL BE USED IN THE FOLLOWING LOCATIONS: ANCHOR BOLTS, WOOD TO STEEL & BOLTS IN TENSION AND SHEAR WALL A.B.
3. USE STANDARD CUT WASHERS AT ALL OTHER LOCATIONS.
4. WASHERS ABOVE AREA MIN. SIZES. SEE A1- FOR SHEAR WALL.

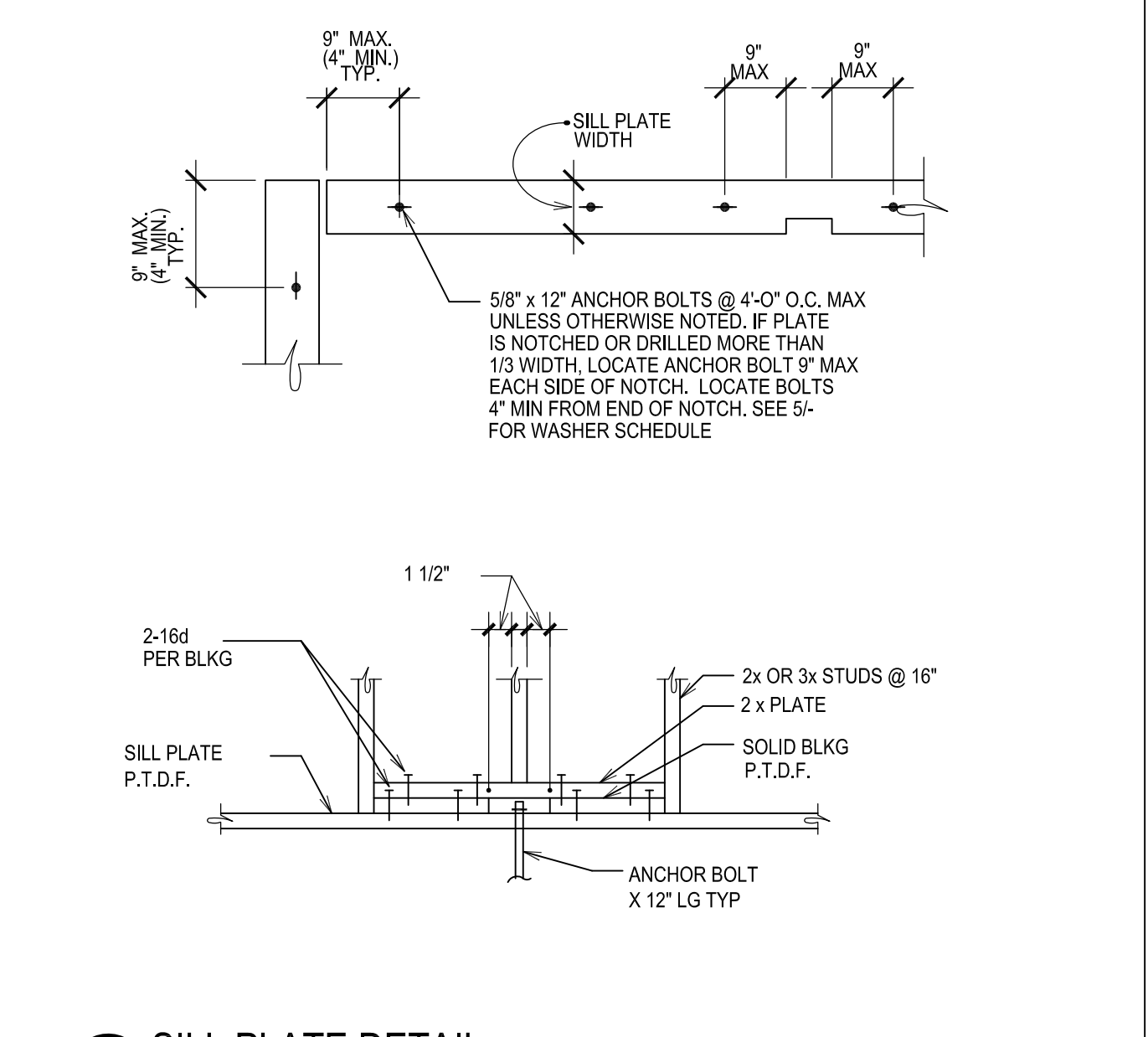
5 WASHER SCHEDULE

SHEAR WALL SCHEDULE

MARK	PLYWOOD	NAIL AND SPACING	EDGE STUD & BLKG	SILL PLATE SEE NOTE #1	CONNECTOR	SPACING	SILL PLATE	A35	SEISMIC SHEAR CAP. A.S.D.
A	1502"	10d 6" 12"	2x 5/8"x12H.B.	4'-0"	2x	@ 16" o.c.	340 RR		
B	1502"	10d 4" 12"	3x 5/8"x12H.B.	2'-8"	3x	@ 16" o.c.	510 RR		
C	1502"	10d 3" 12"	3x 5/8"x12H.B.	1'-4"	3x	@ 12" o.c.	965 RR		
D	1502"	10d 2" 12"	3x 5/8"x12H.B.	1'-4"	3x	@ 12" o.c.	920 RR		
E	38"	8d 6" 12"	2x 5/8"x12H.B.	4'-0"	2x	@ 16" o.c.	280 RR		

6 (NEW) SHEAR WALL SCHEDULE AND DETAIL

- NOTES:
1. ALL PLYWOOD SHEATHING SHALL BE STRUCT PLYWOOD.
2. ALL PLYWOOD EDGES SHALL BE BLOCKED WITH 2-INCH NOMINAL OR THICKER FRAMING. PLYWOOD MAY BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY.
3. WHERE PLYWOOD PANELS ARE APPLIED ON BOTH SIDES OF A WALL, PLYWOOD PANEL JOINTS SHALL OCCUR AT 3" NOMINAL OR THICKER FRAMING MEMBERS, INCLUDING BLOCKING, AND NAILS SHALL BE STAGGERED.
4. SHEARWALLS MORE THAN ONE VERTICAL PANEL IN HEIGHT SHALL HAVE EITHER VERT OR HORZ STAGGERED SPICED JOINTS. AT CONT' HORZ JOINTS THE BLKG SHALL BE 3" NOMINAL OR THICKER.
5. THE MINIMUM EDGE DISTANCE FOR NAILS IN THE RECEIVING MEMBERS AND THE PLYWOOD SHALL BE 3/8" FOR 2" NOMINAL RECEIVING MEMBERS AND 1/2" FOR 3" NOMINAL RECEIVING MEMBERS. BLKG RECEIVING 10d NAILS SHALL BE 3" NOMINAL OR LARGER.
6. SILL PLATE SHALL BE PRESSURE TREATED D.F. AND CONFORM TO SILL PLATE DETAILS. PROVIDE MINIMUM OF 3 ANCHOR BOLTS IN ALL SHEARWALLS.
7. ANCHOR SPACING SHALL BE REDUCED TO HALF THE SPACING SHOWN WHERE SHEARWALL SHEATHING IS ON BOTH SIDES OF THE WALL (TWICE AS MANY A.B.). ALSO STAGGER NAILING @ JOINTS.
8. ALL DEFECTIVE NAILS SHALL BE REMOVED & REPLACED WITH SOUND NAILING.
9. NAILING WITH MACHINE NAILS SHALL CONFORM TO THE WOOD GENERAL NOTES ON COVER SHEET.
10. ALL ANCHOR BOLTS AT SHEAR WALL SHALL BE 1/2" LONG HEX BOLTS U.N.O.
11. ALL NAILS TO SILL PLATE (P.T.D.F.) SHALL BE GALVANIZED.



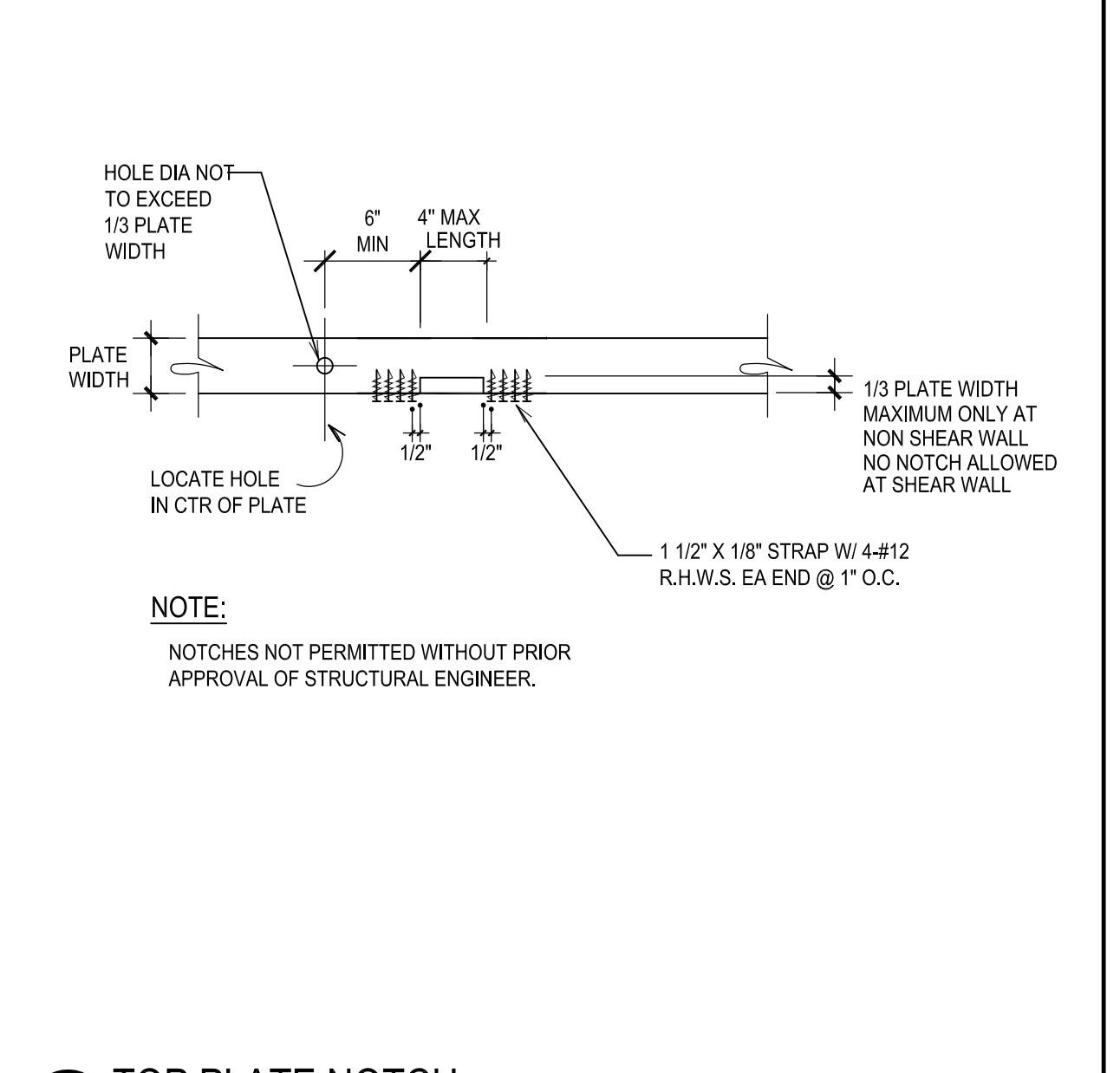
8 SILL PLATE DETAIL

HEADER SCHEDULE

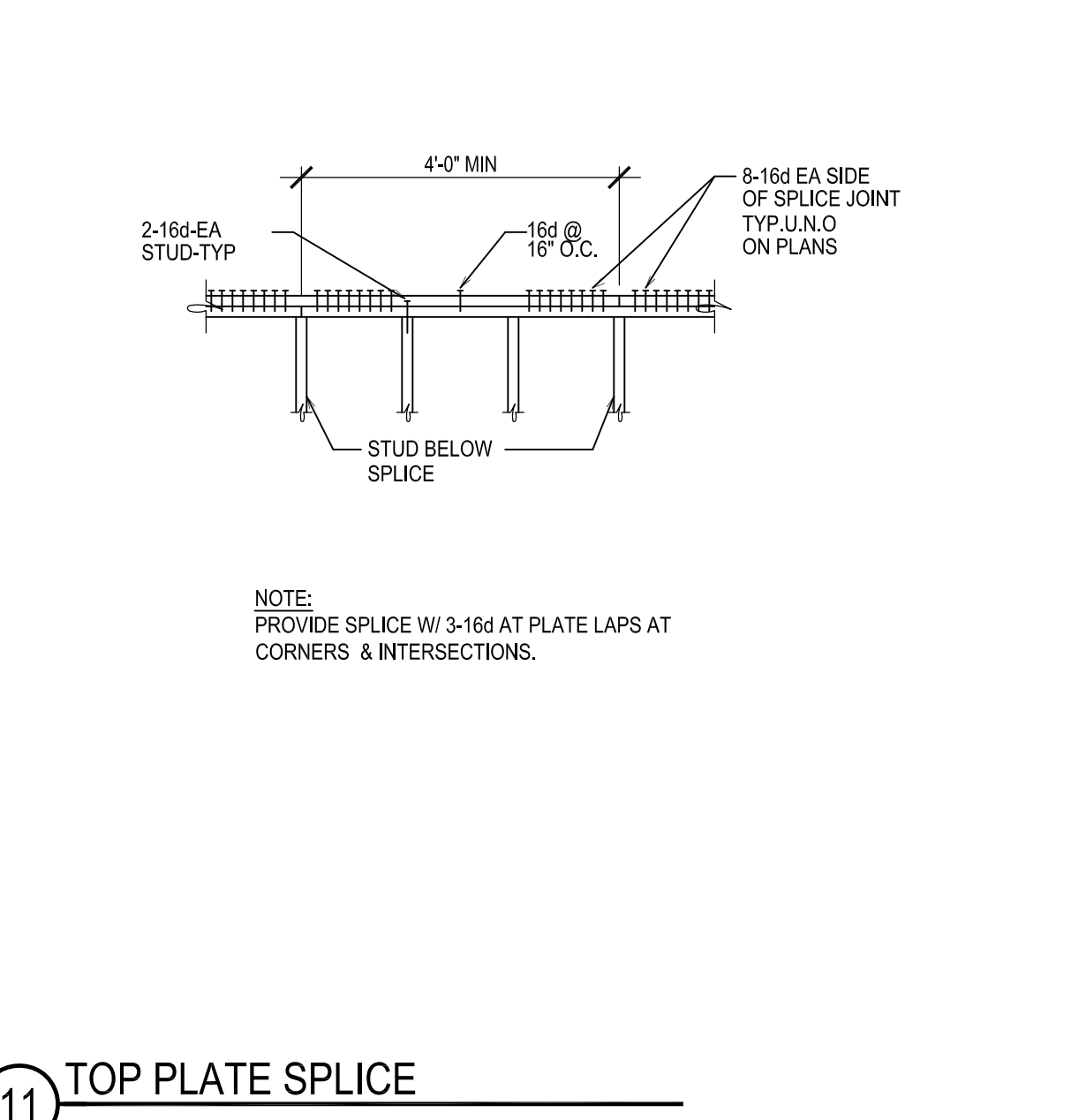
CLEAR OPNG WIDTH	HEADER SIZE	REMARKS
TO 4'-0"	6x6 OR 6x8	
4'-1" TO 6'-0"	6x6 OR 6x8	
6'-1" TO 8'-0"	6x6 OR 6x8	
8'-1" TO 10'-0"	6x10 OR 6x12	2-CRIPPLE STUDS AND 2 KING STUDS U.N.O.
10'-1" TO 12'-0"	6x12 OR 6x12	2-CRIPPLE STUDS AND 4 KING STUDS U.N.O.

NOTE:
USE ABOVE SCHEDULED SIZES ONLY WHERE SIZE IS NOT INDICATED ON PLANS & DETAILS

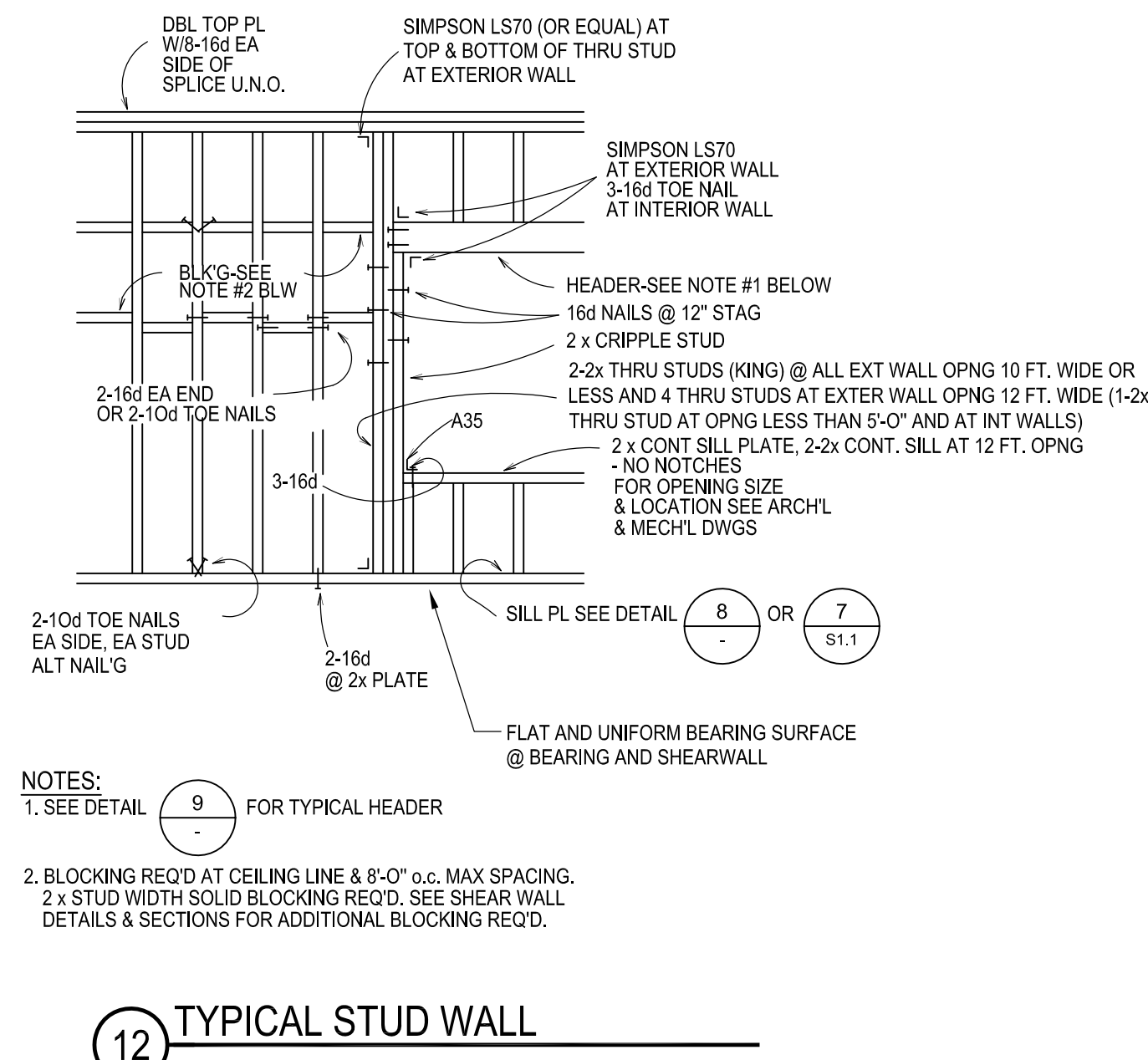
9 HEADER SCHEDULE



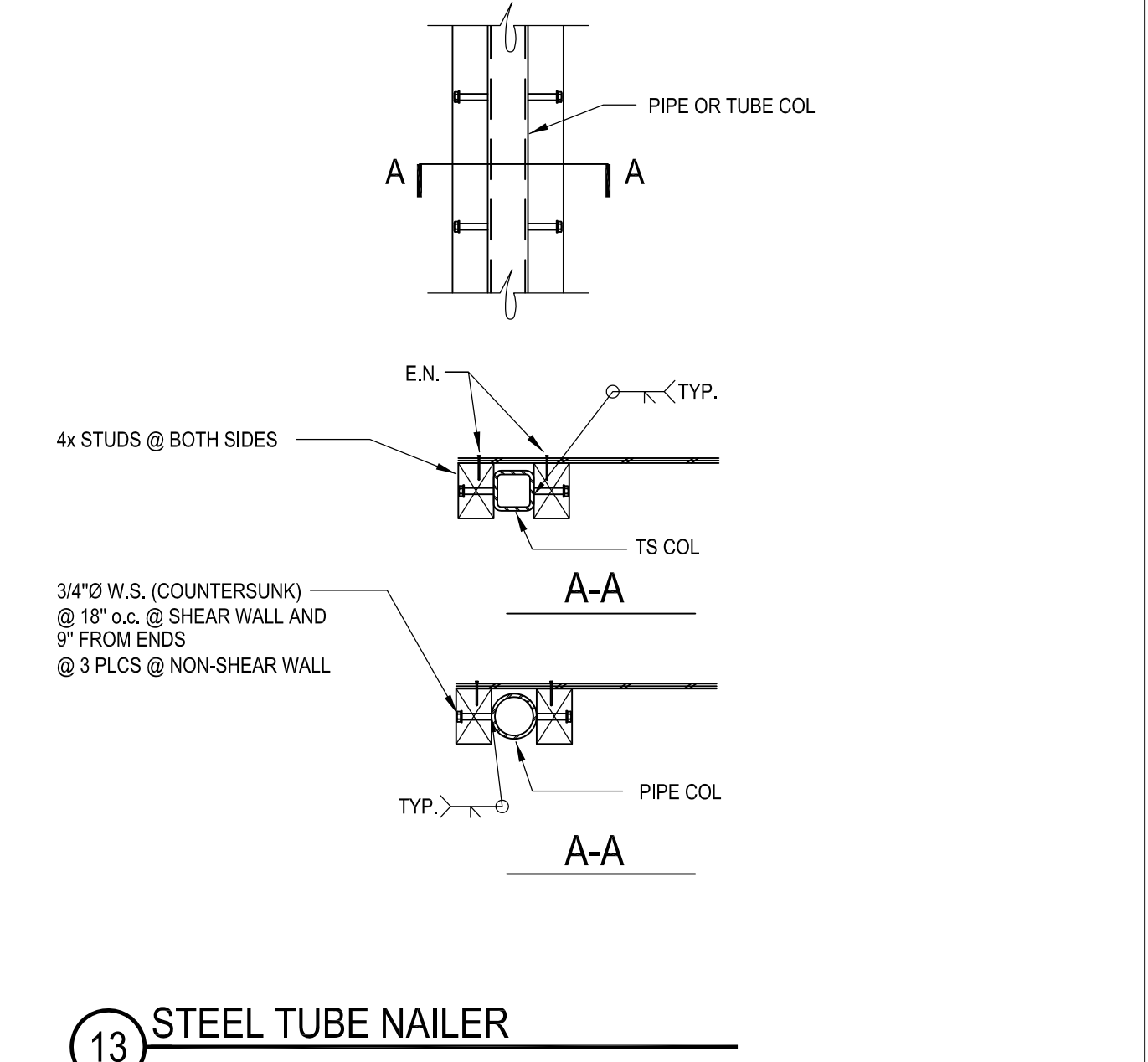
10 TOP PLATE NOTCH



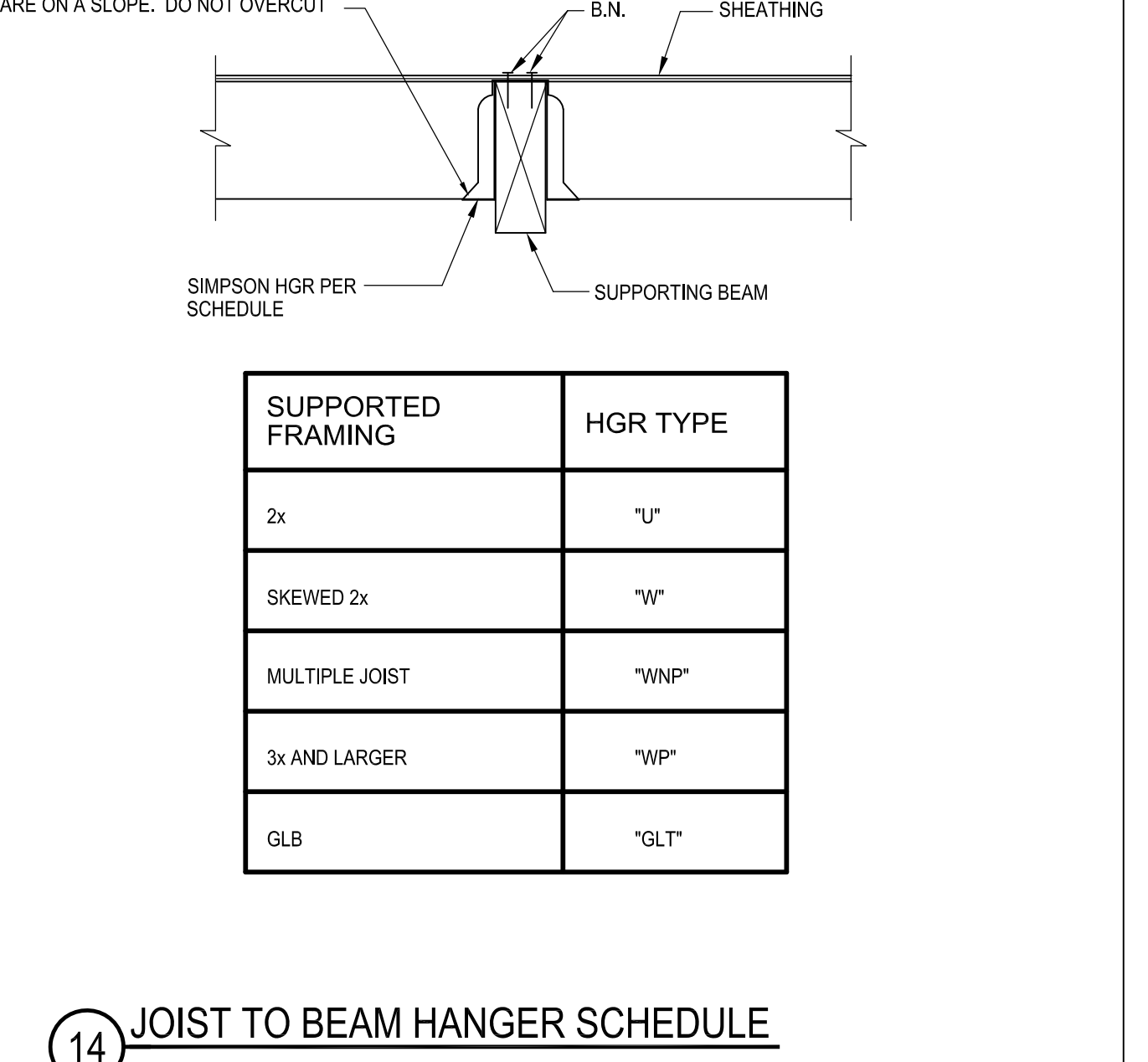
11 TOP PLATE SPLICE



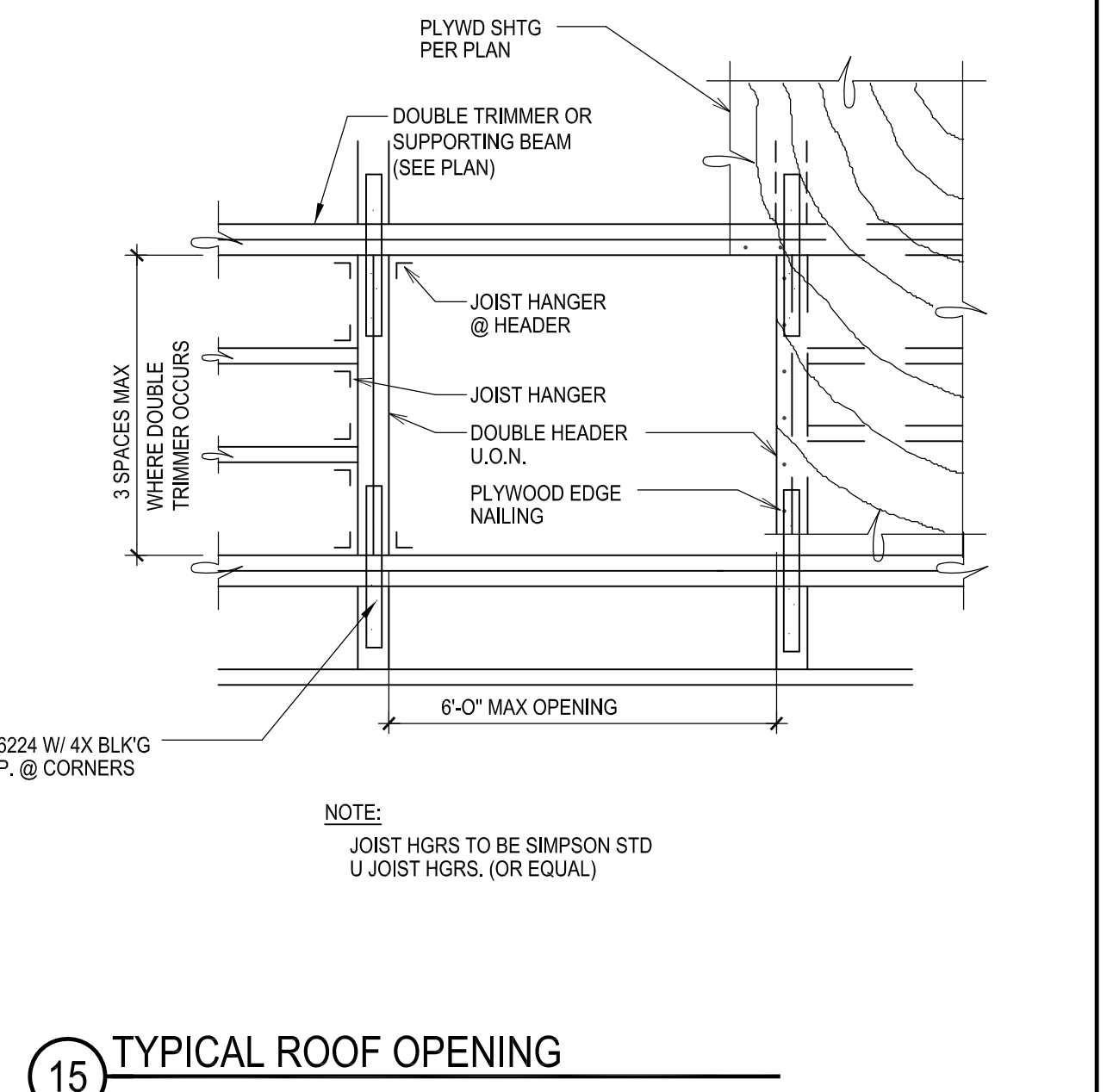
12 TYPICAL STUD WALL



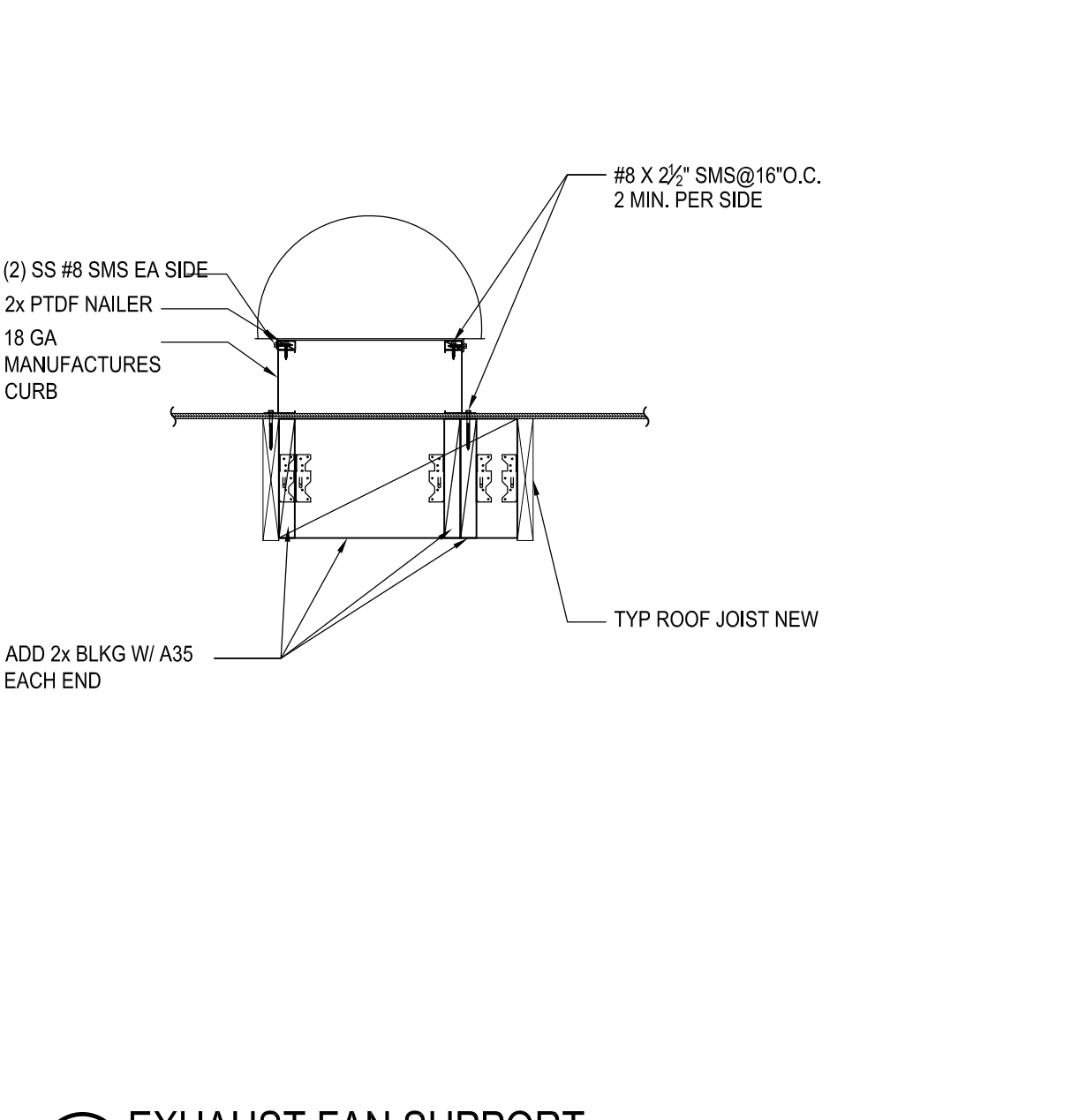
13 STEEL TUBE NAILER



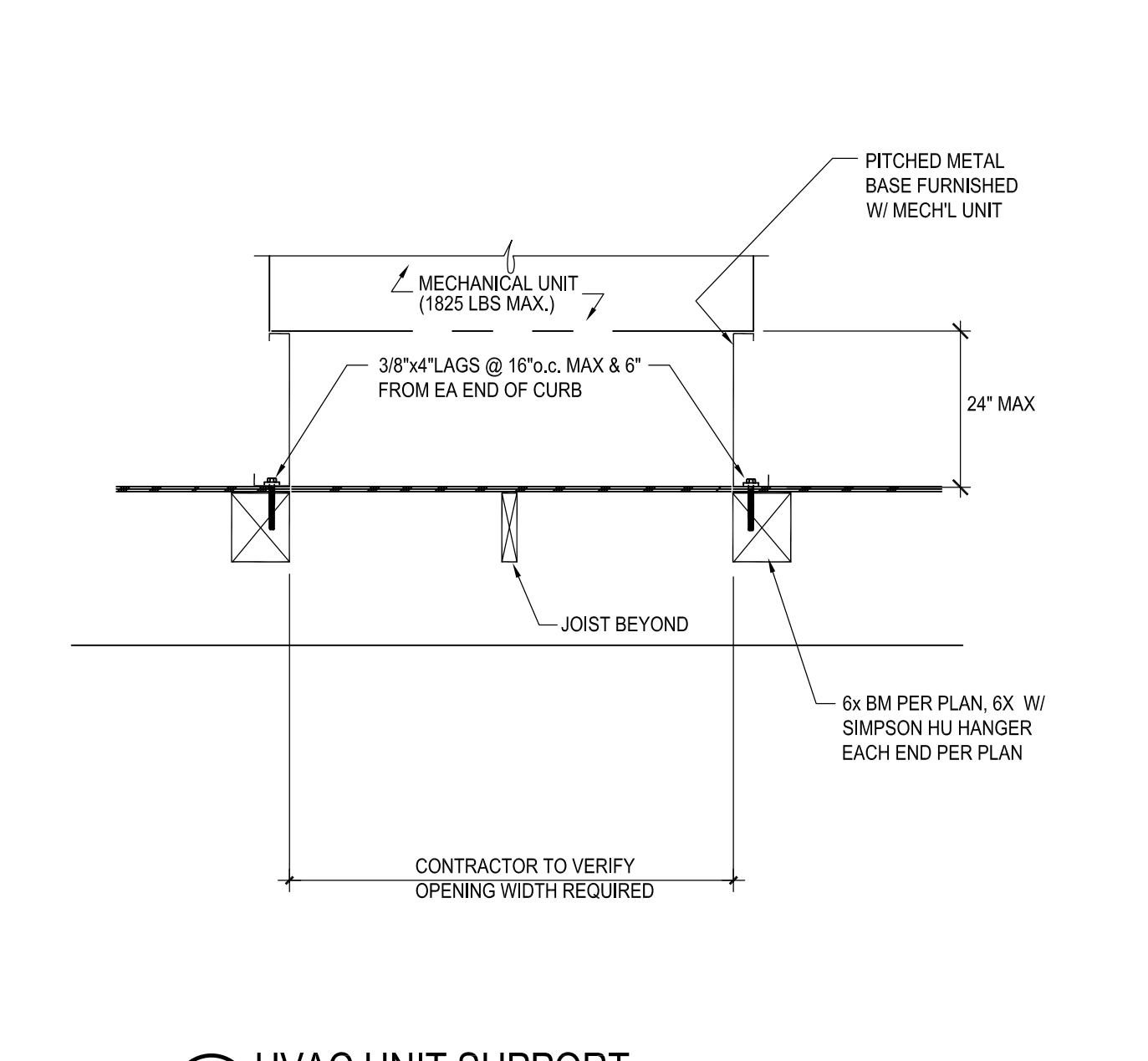
14 JOIST TO BEAM HANGER SCHEDULE



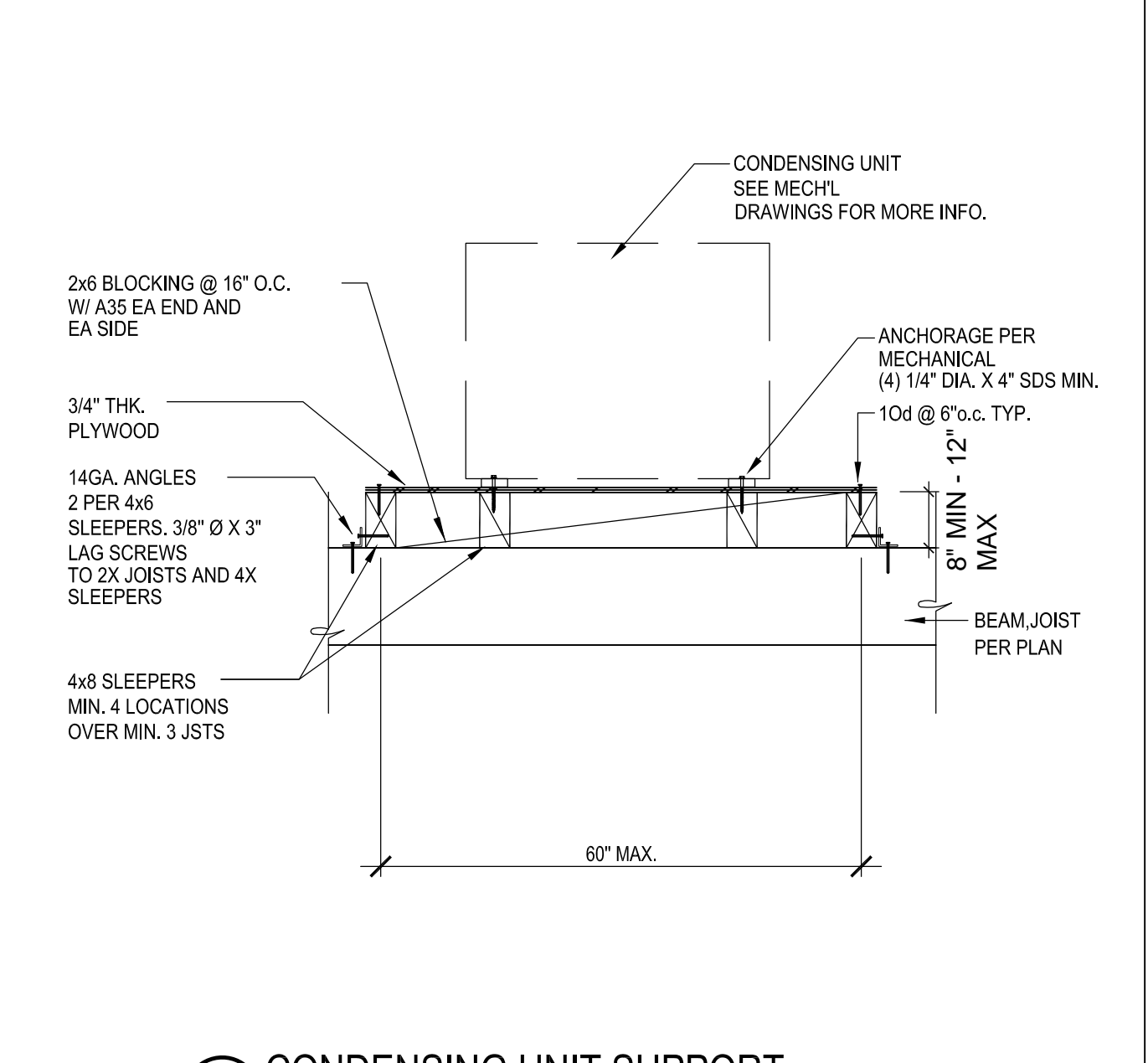
15 TYPICAL ROOF OPENING



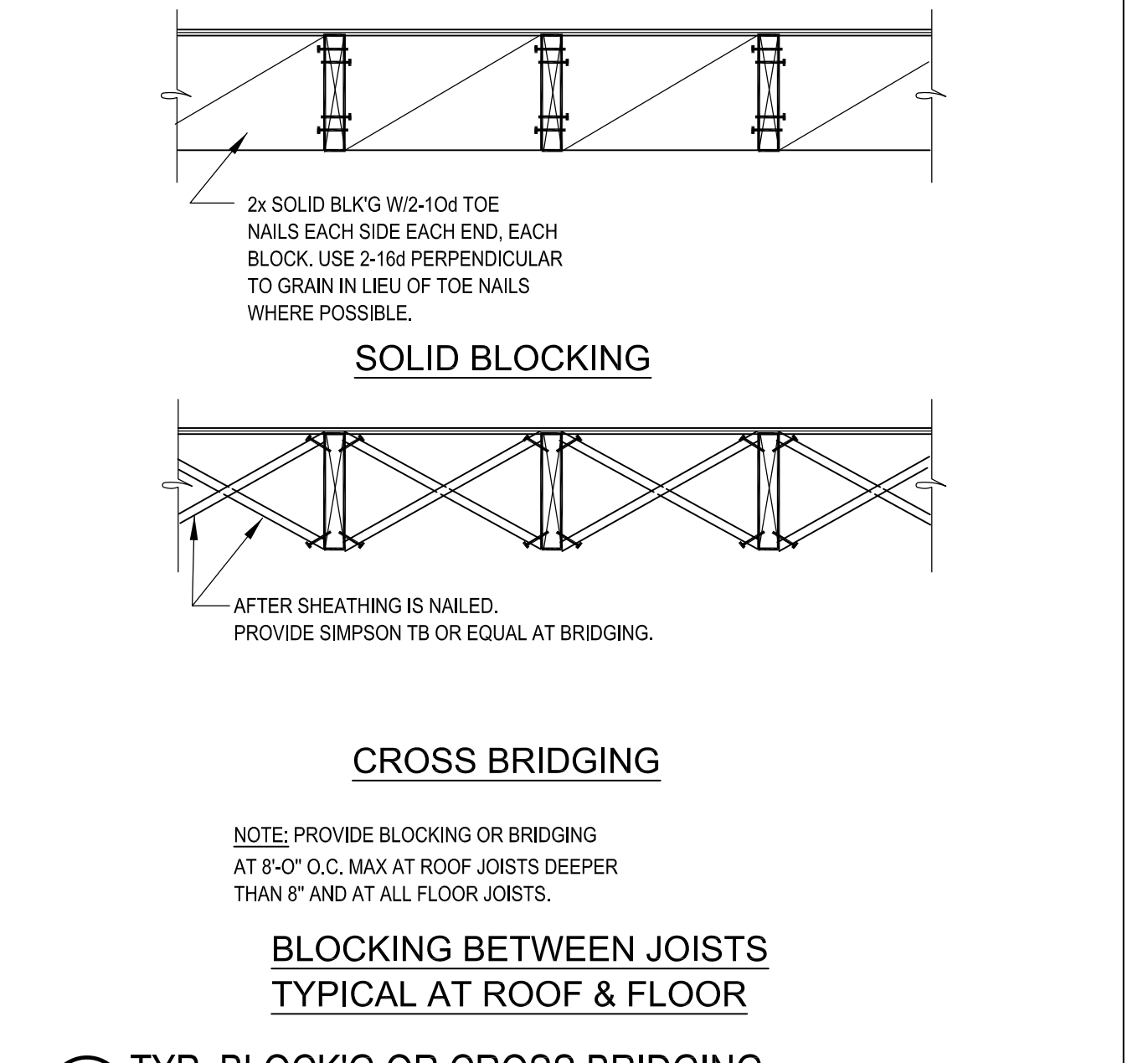
15A EXHAUST FAN SUPPORT



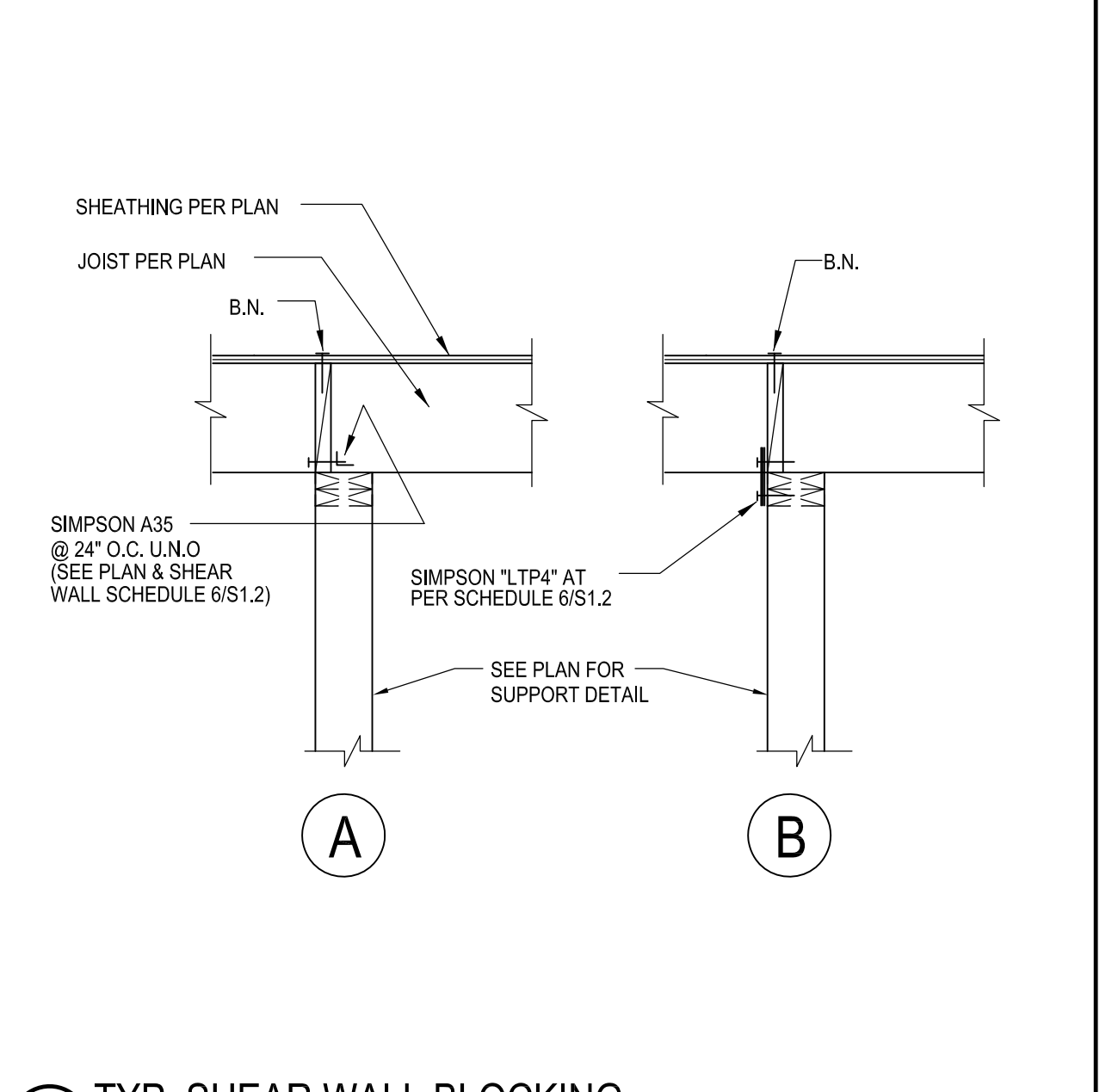
16 HVAC UNIT SUPPORT



17 CONDENSING UNIT SUPPORT



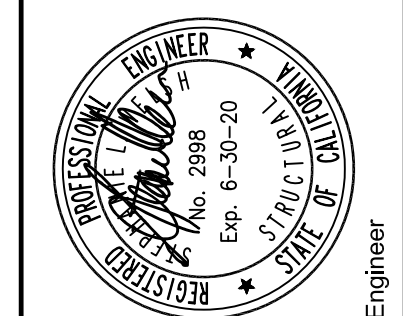
18 TYP. BLOCK'G OR CROSS BRIDGING



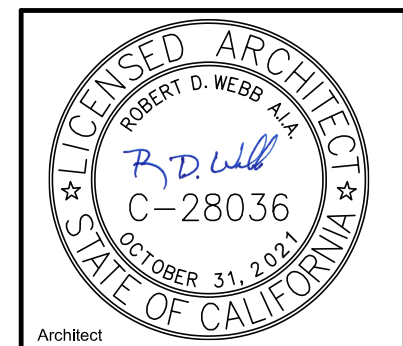
19 TYP. SHEAR WALL BLOCKING

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Revision
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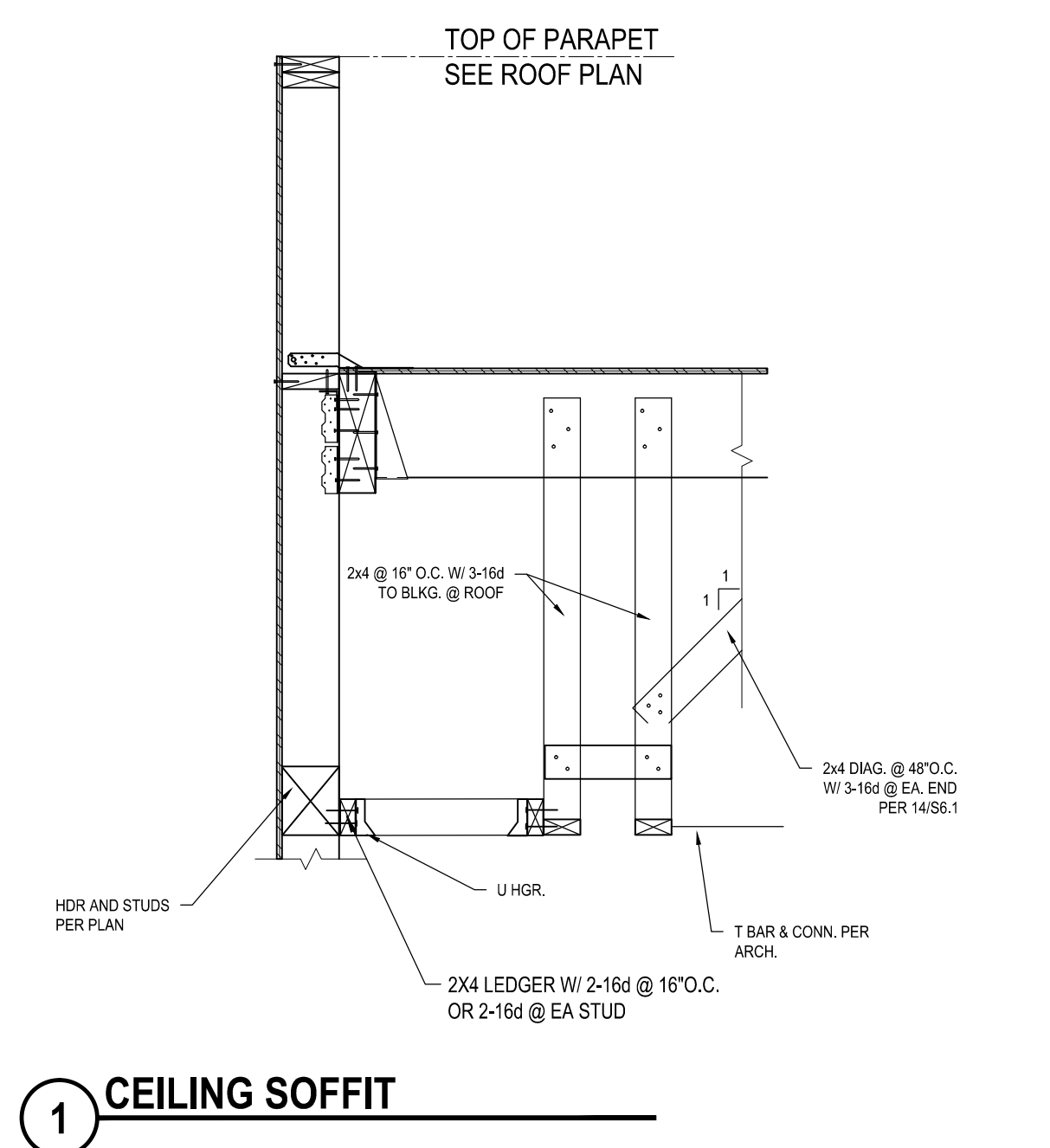


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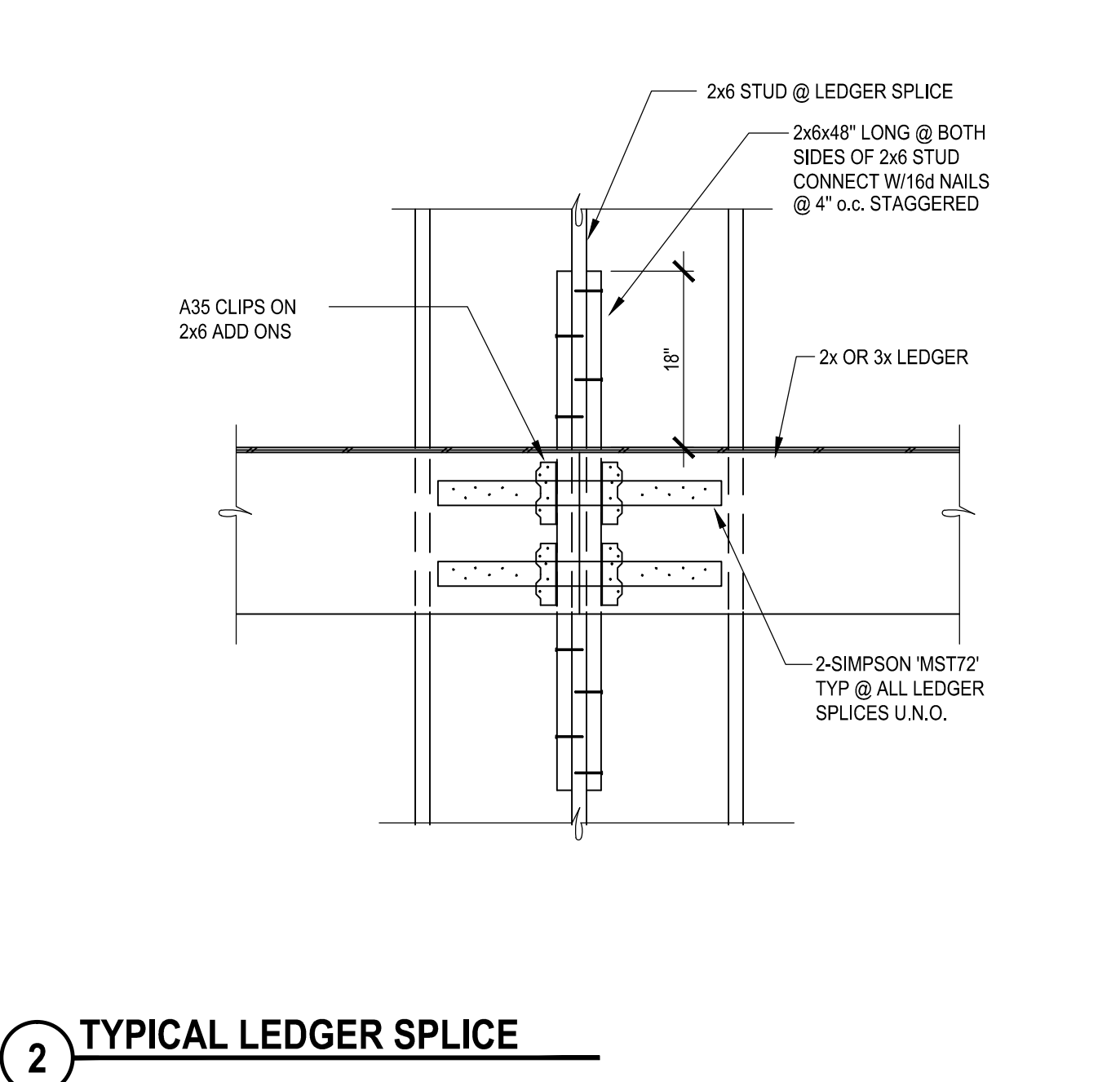


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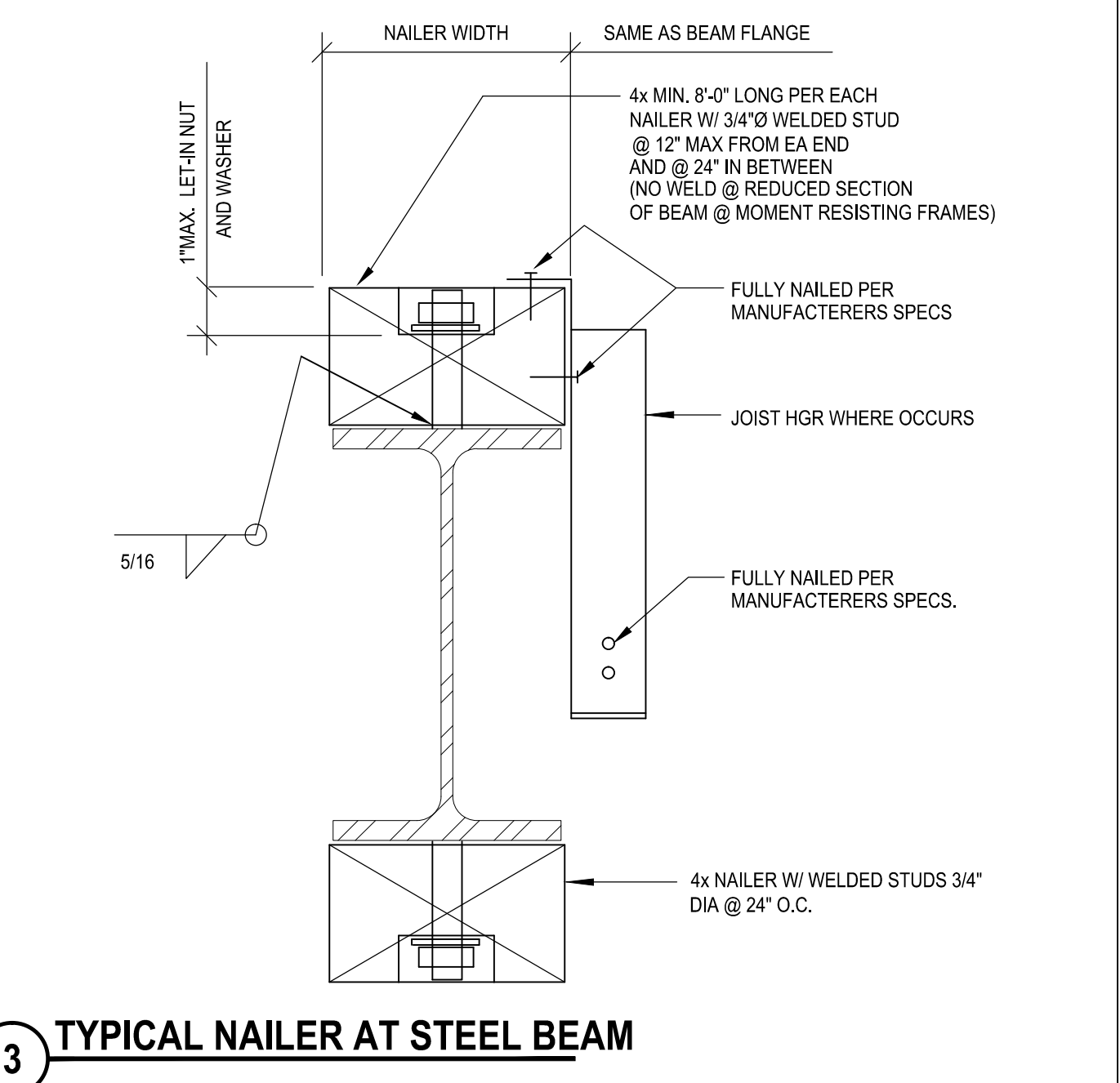
TYPICAL WOOD FRAMING DETAILS
Drawn: MR
Checked: SW
Date: JANUARY 14, 2020
Job: SSD-PA-03
S1.2



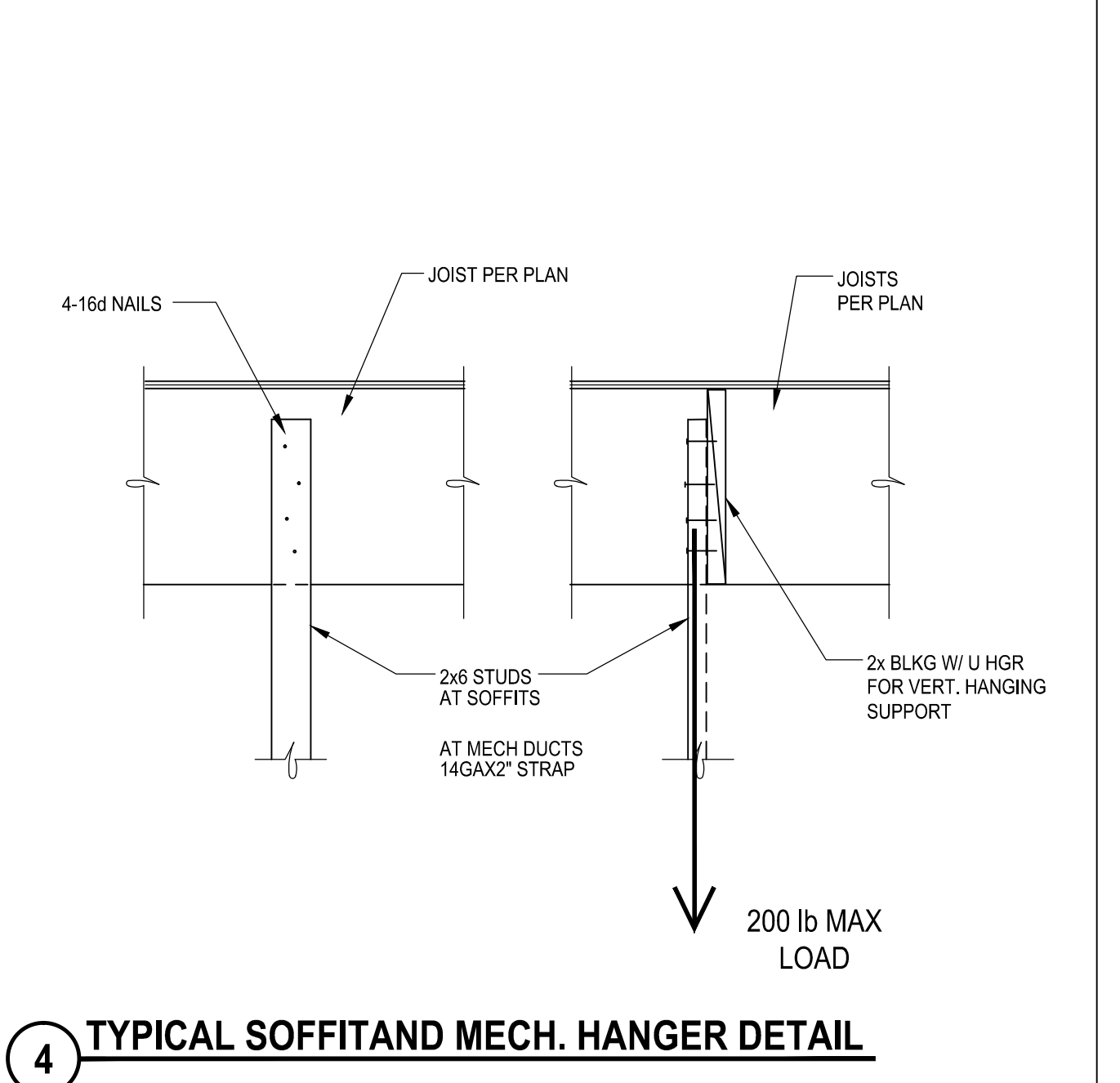
1 CEILING SOFFIT



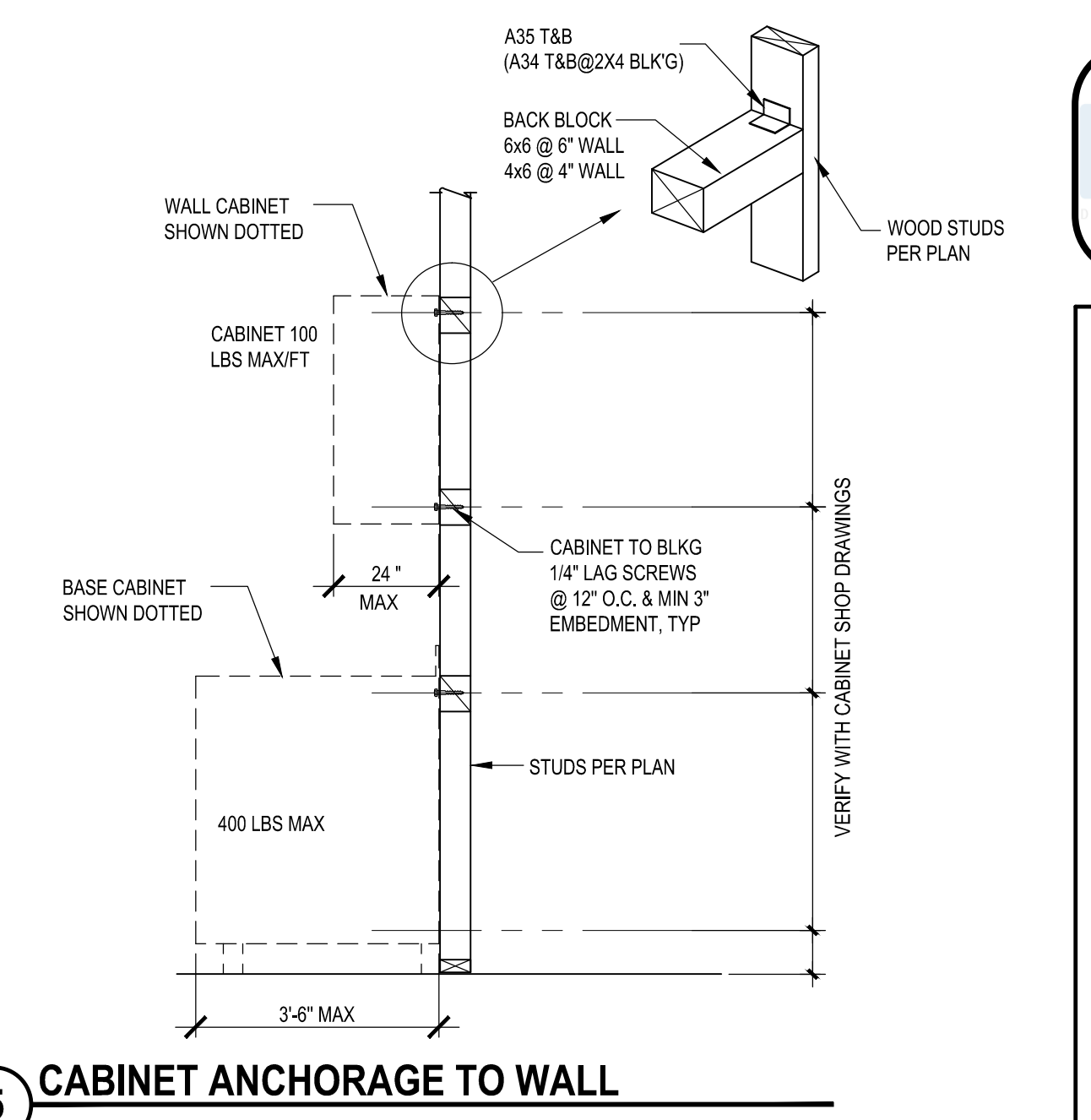
2 TYPICAL LEDGER SPLICE



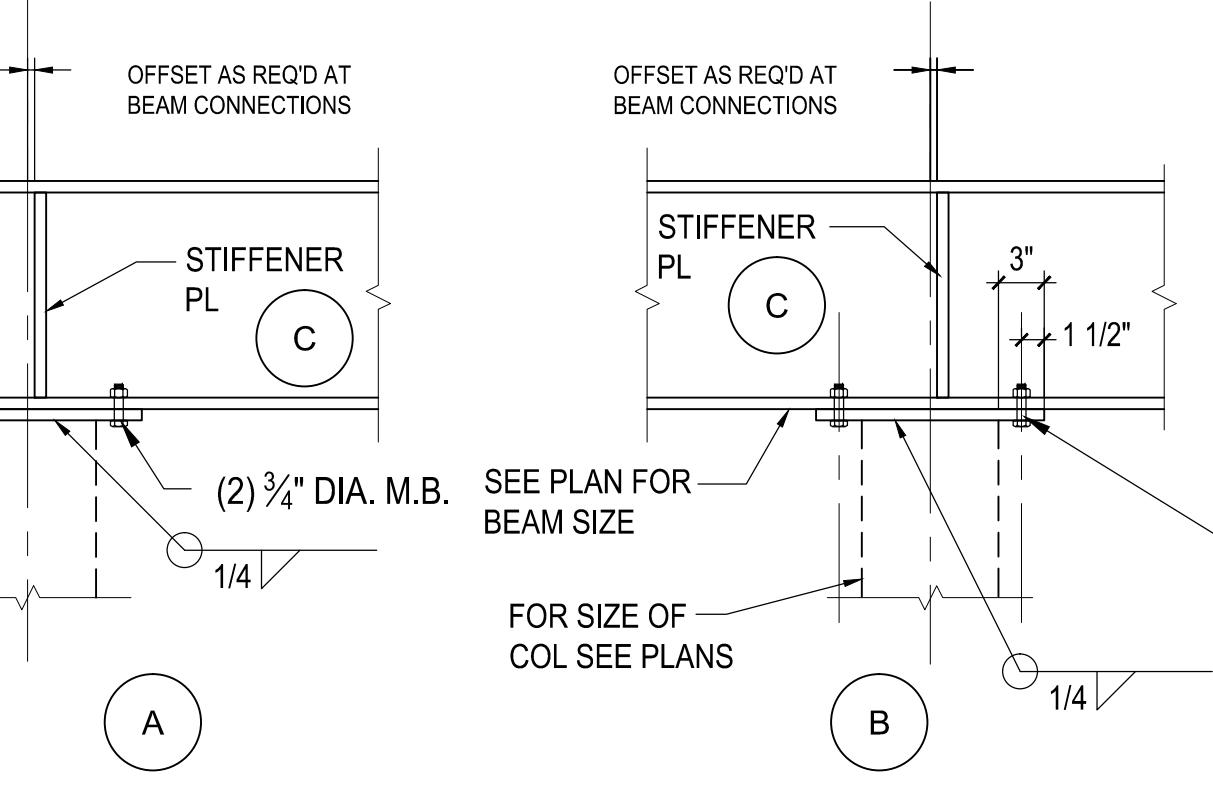
3 TYPICAL NAILER AT STEEL BEAM



4 TYPICAL SOFFIT AND MECH. HANGER DETAIL

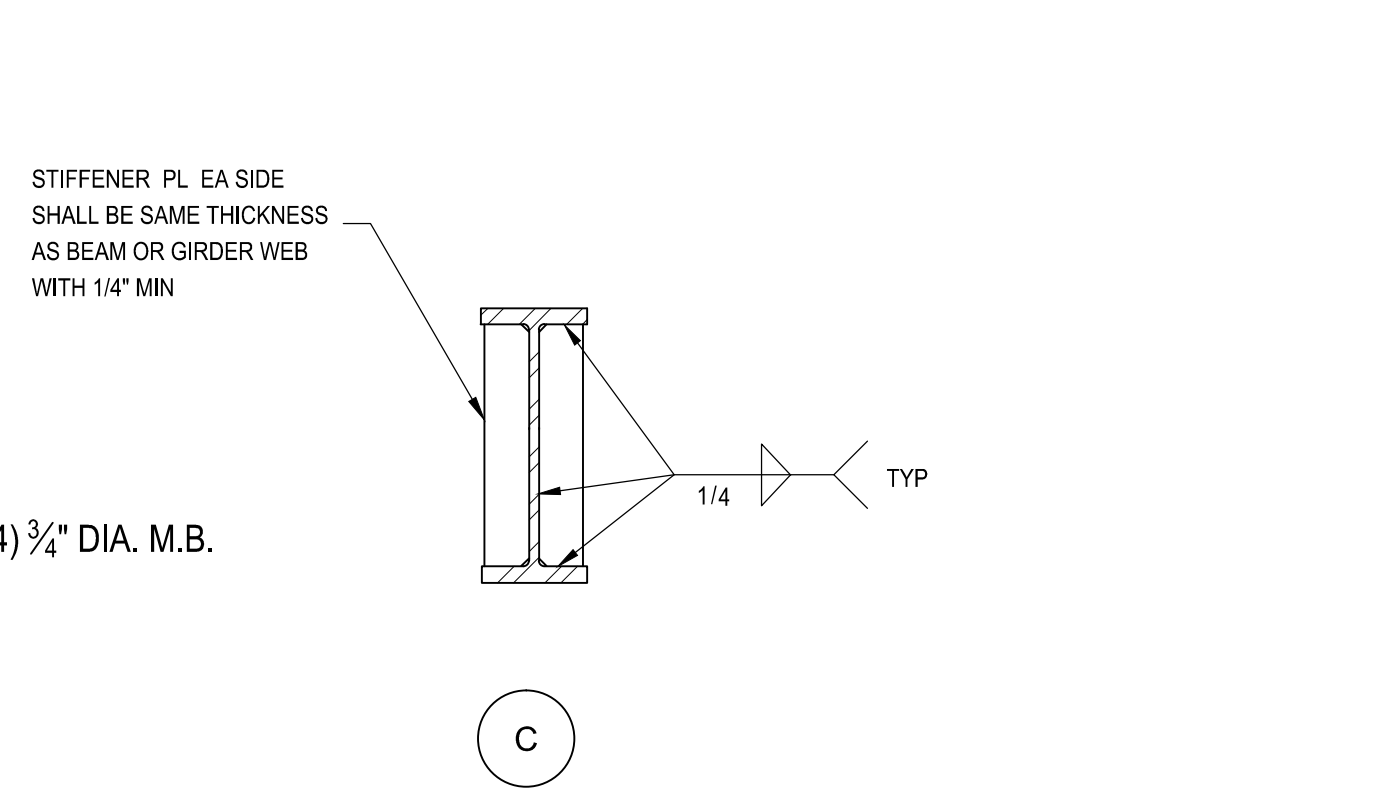


5 CABINET ANCHORAGE TO WALL

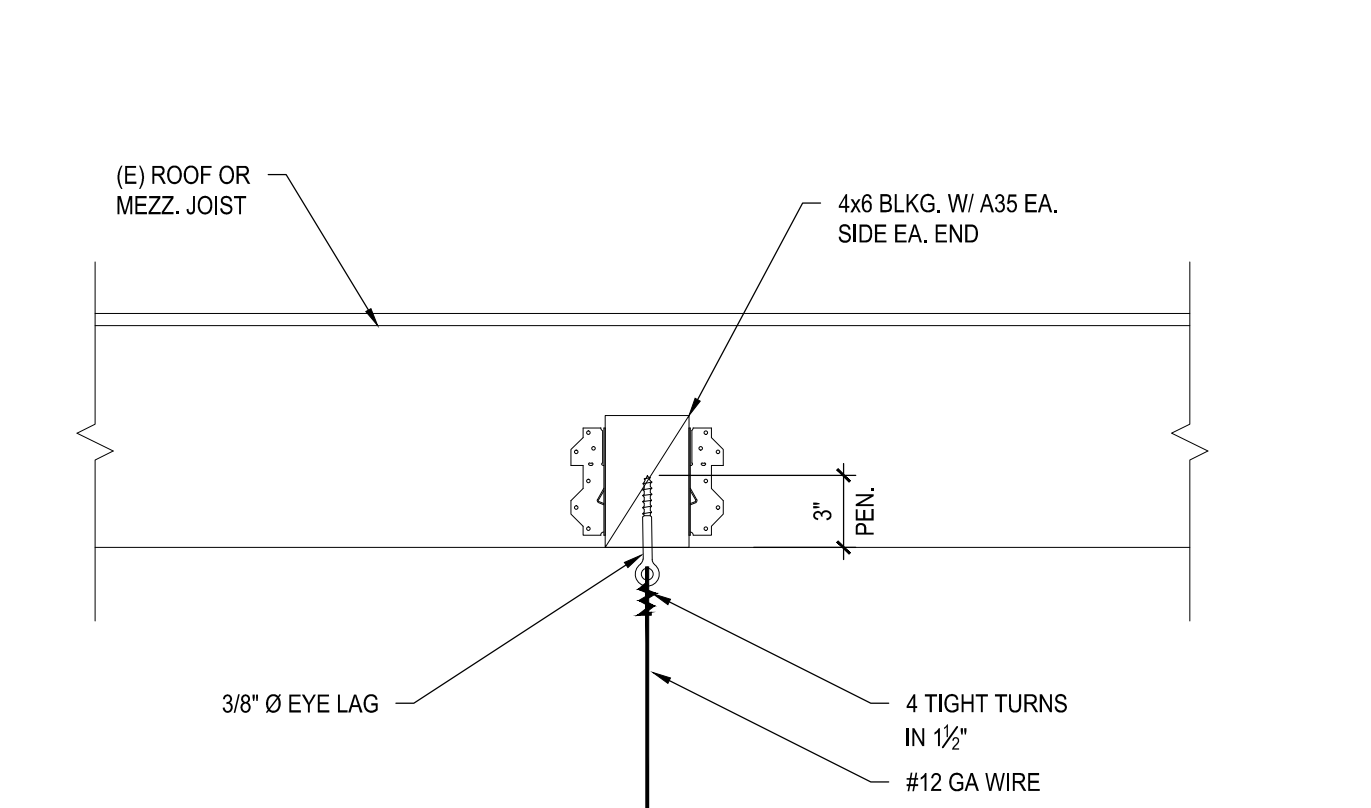


NOTE:
1. COLUMN CAP PLATE SHALL BE THE SAME WIDTH AS BEAM FLANGE OR COLUMN DIMENSION + 1/2" (WHICHEVER IS GREATER), THICKNESS SAME AS BEAM FLANGE (1/2" MIN)
2. USE 5/8" DIA M.B. WHEN FLANGE = 4"

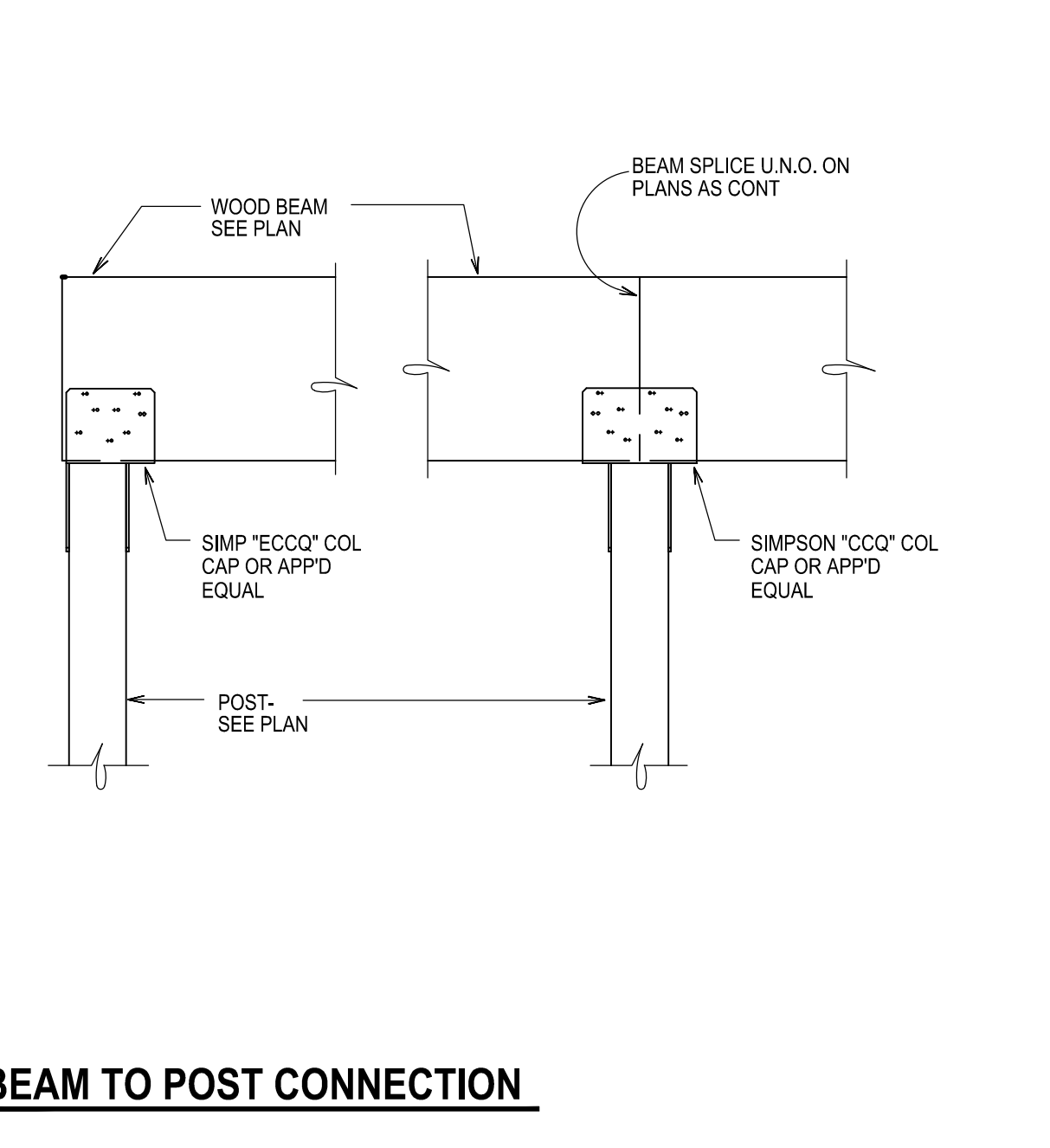
6 TYPICAL BEAM TO COLUMN



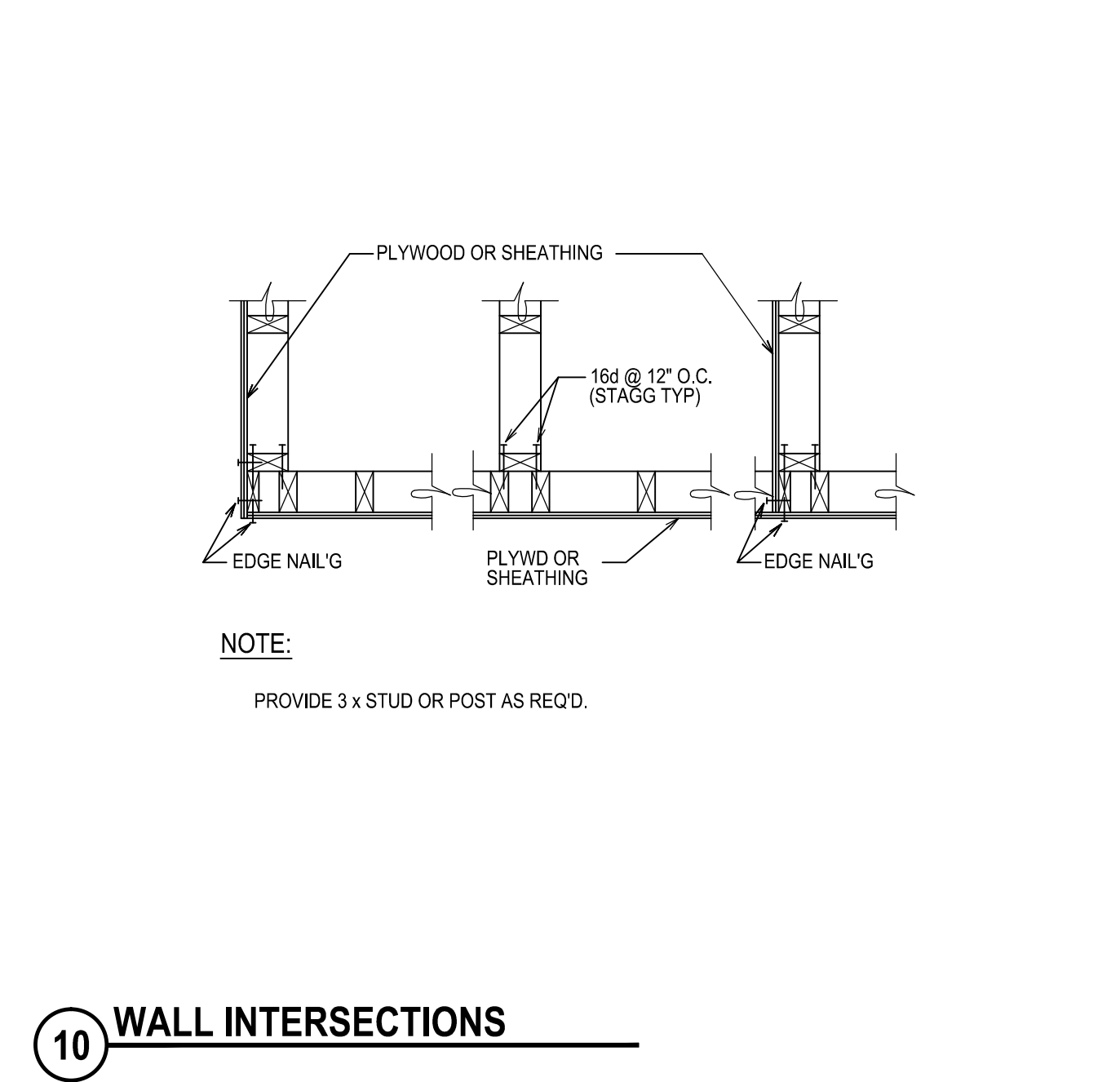
7 HANGER WIRE AND DUCT STRAPS TO FRAMING



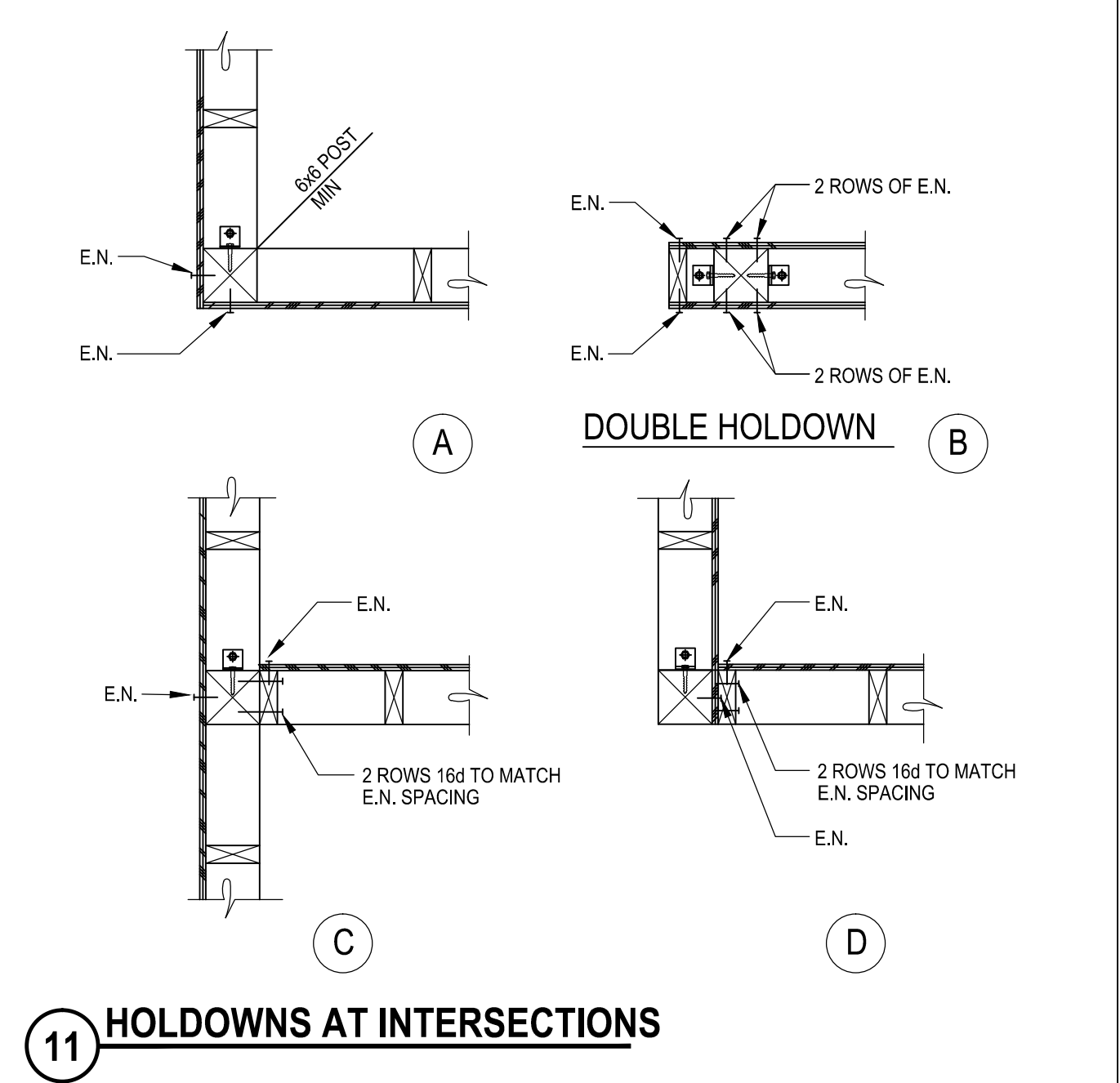
8 TYPICAL WOOD POST TO SILL PLATE



9 BEAM TO POST CONNECTION



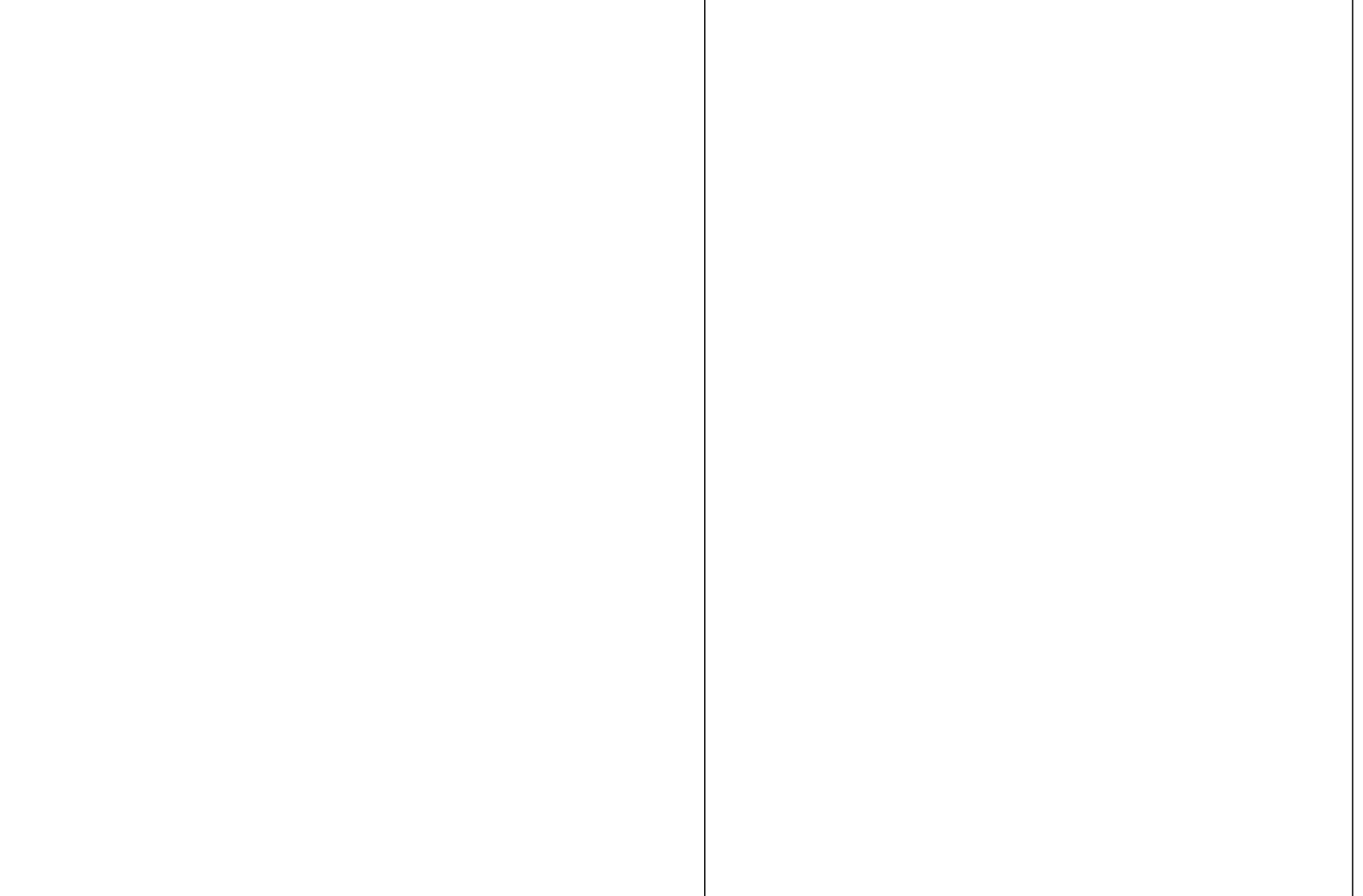
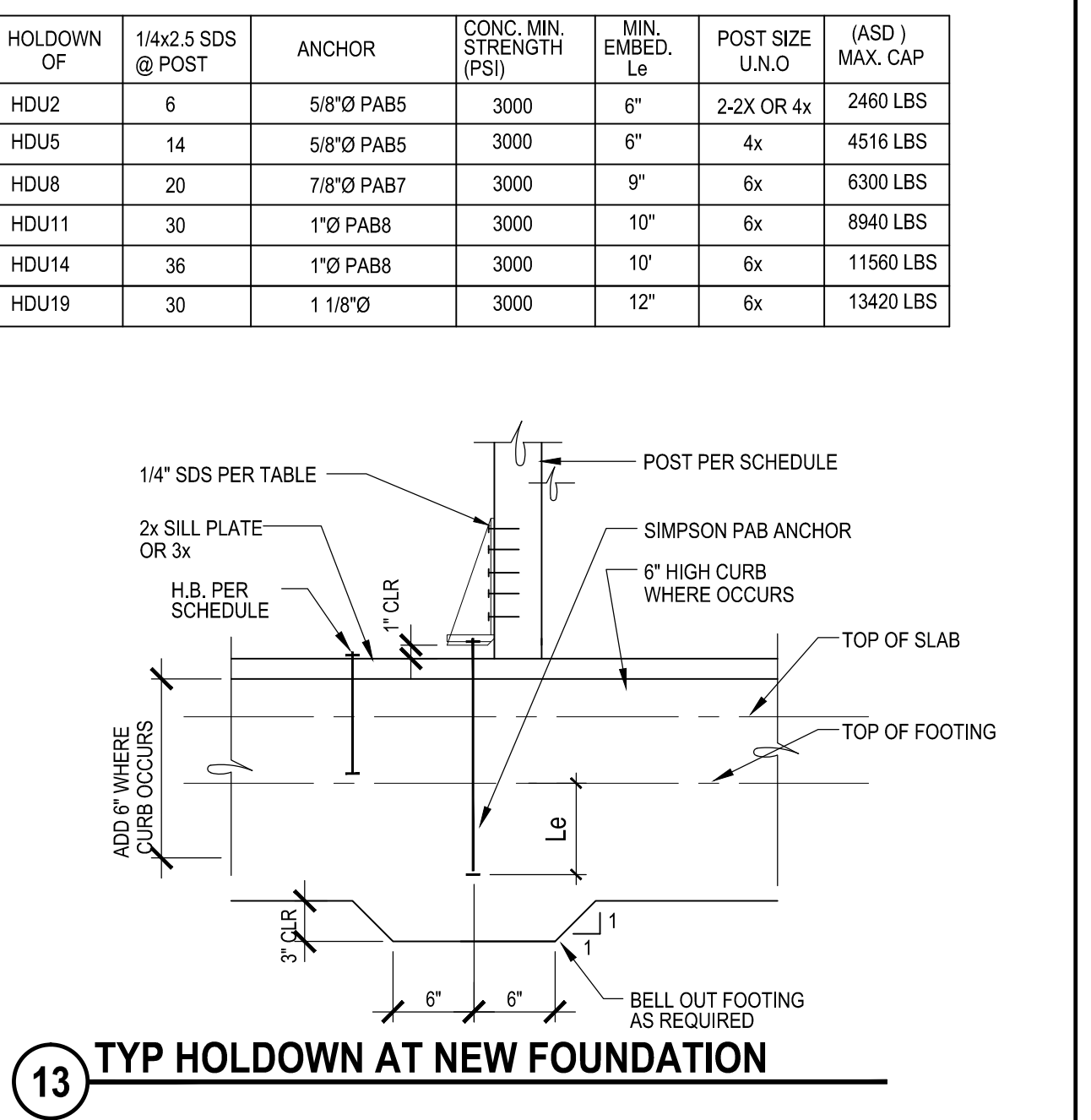
10 WALL INTERSECTIONS



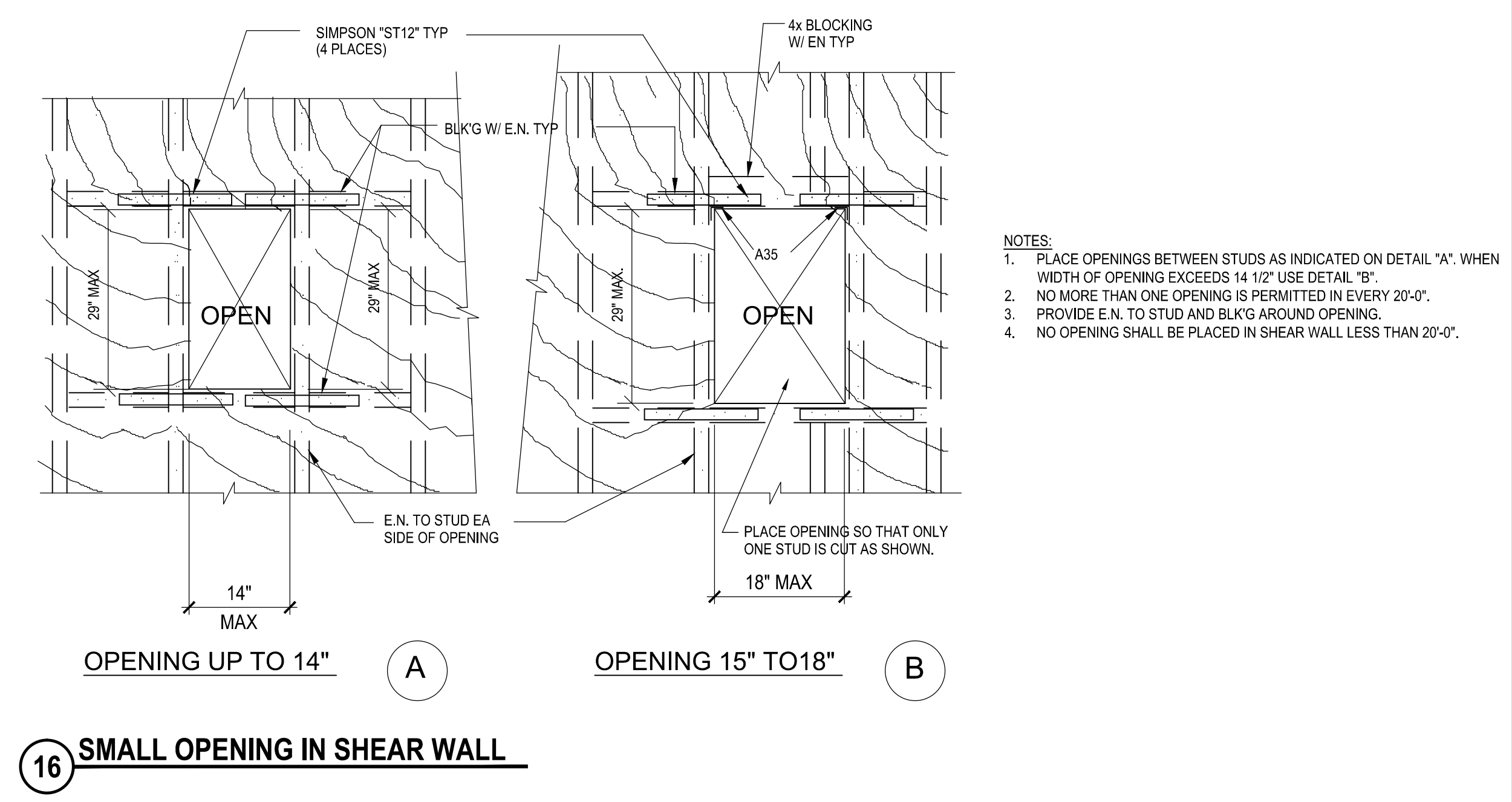
11 HOLDDOWNS AT INTERSECTIONS

HOLDOWN OF	1/4x2.5 SDS @ POST	ANCHOR	CONC. MIN. STRENGTH (PSI)	MIN. EMBED. L _e	POST SIZE U.N.O.	(ASD) MAX. CAP
HDU2	6	5/8" PAB5	3000	6"	2-2x OR 4x	2460 LBS
HDU5	14	5/8" PAB5	3000	6"	4x	4516 LBS
HDU8	20	7/8" PAB7	3000	9"	6x	6300 LBS
HDU11	30	1" PAB8	3000	10"	6x	8940 LBS
HDU14	36	1 1/8" PAB8	3000	10"	6x	11560 LBS
HDU19	30	1 1/8" PAB8	3000	12"	6x	13420 LBS

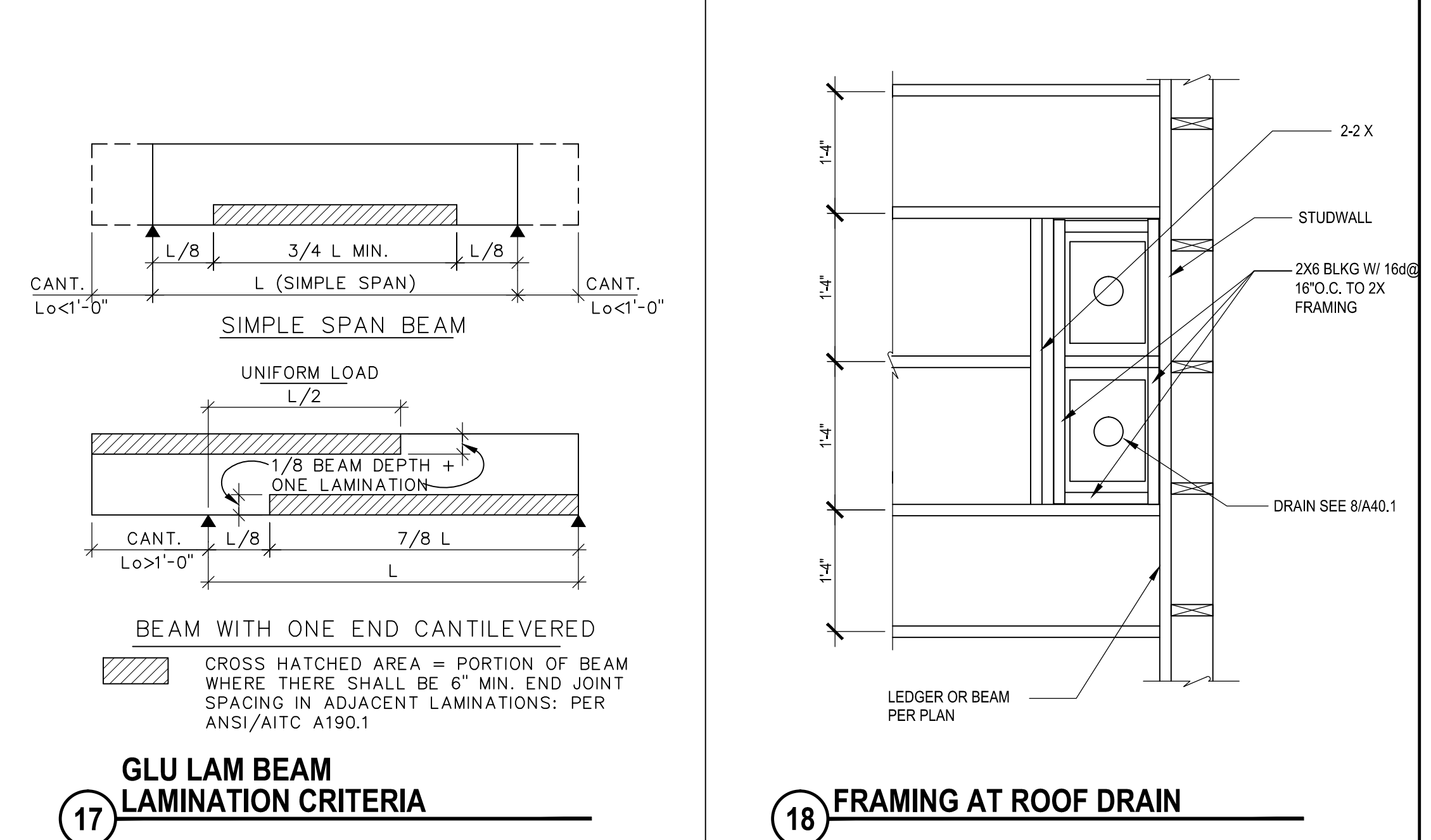
13 TYP HOLDDOWN AT NEW FOUNDATION



16 SMALL OPENING IN SHEAR WALL



17 GLU LAM BEAM LAMINATION CRITERIA



18 FRAMING AT ROOF DRAIN

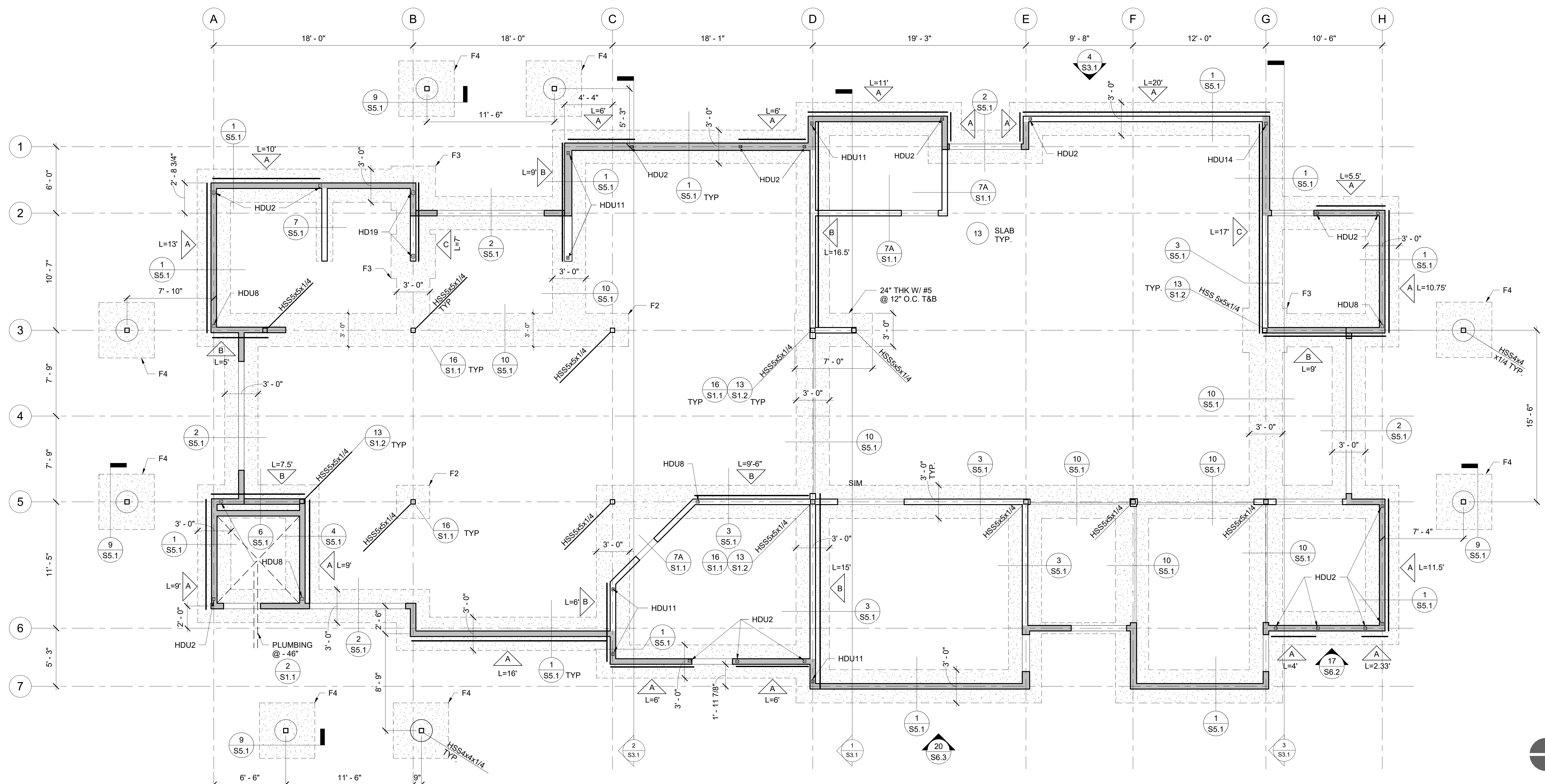
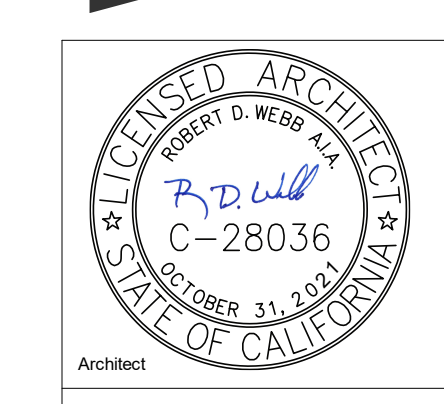
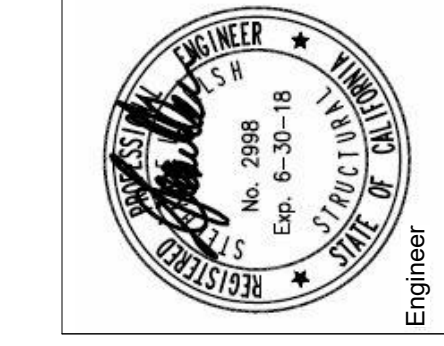
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TYPICAL DETAILS
Drawn: MR
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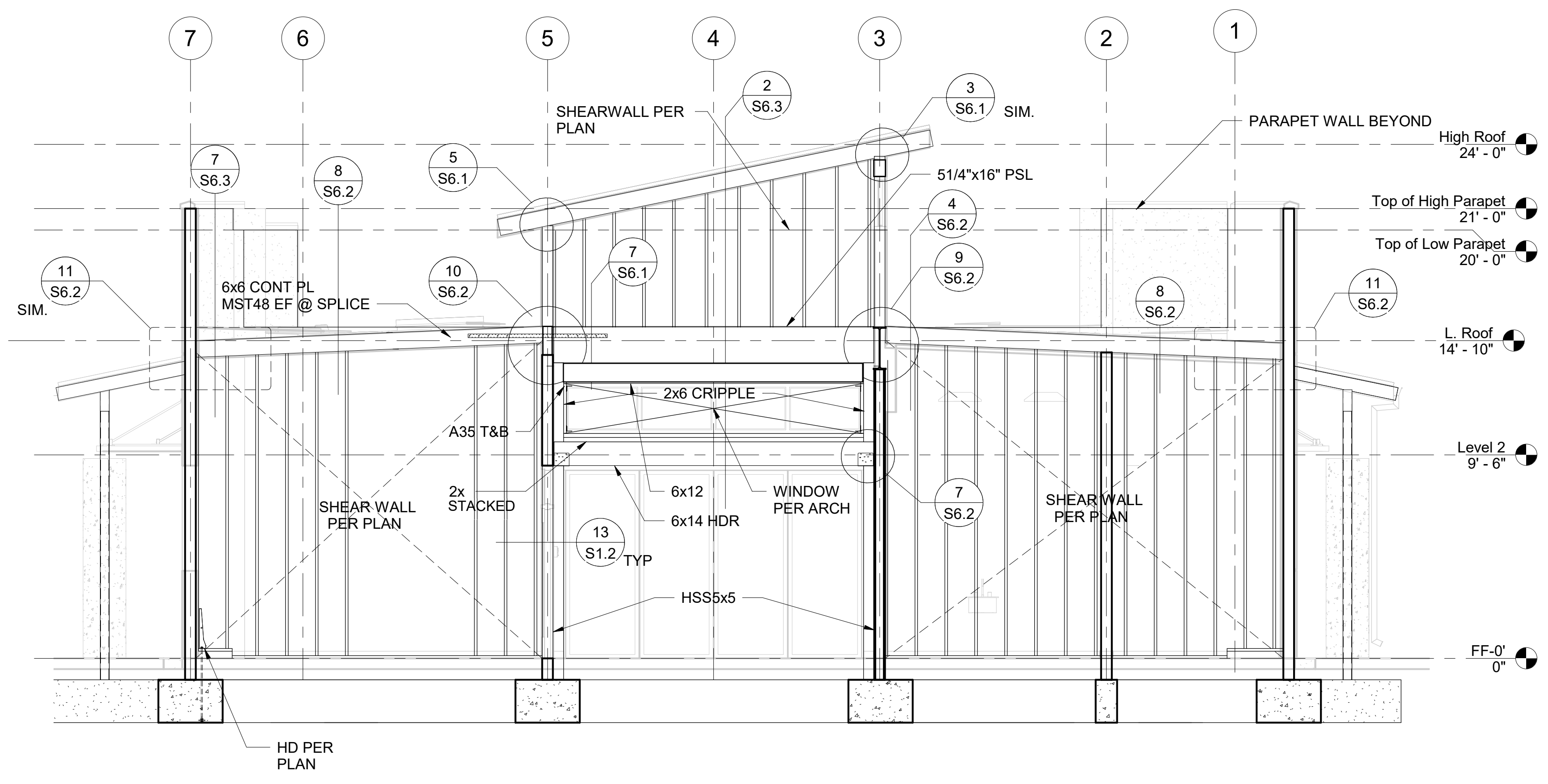


FOOTING SCHEDULE			
FTG.	SIZE *	REINF.	
F1	2'-0" SQ.x24"	#5 @ 12" O.C.	T&B
F2	3'-0" SQ.x24"	#5 @ 12" O.C.	T&B
F3	4'-0" SQ.x24"	#5 @ 12" O.C.	T&B
F4	5'-0" SQ.x24"	#5 @ 12" O.C.	T&B

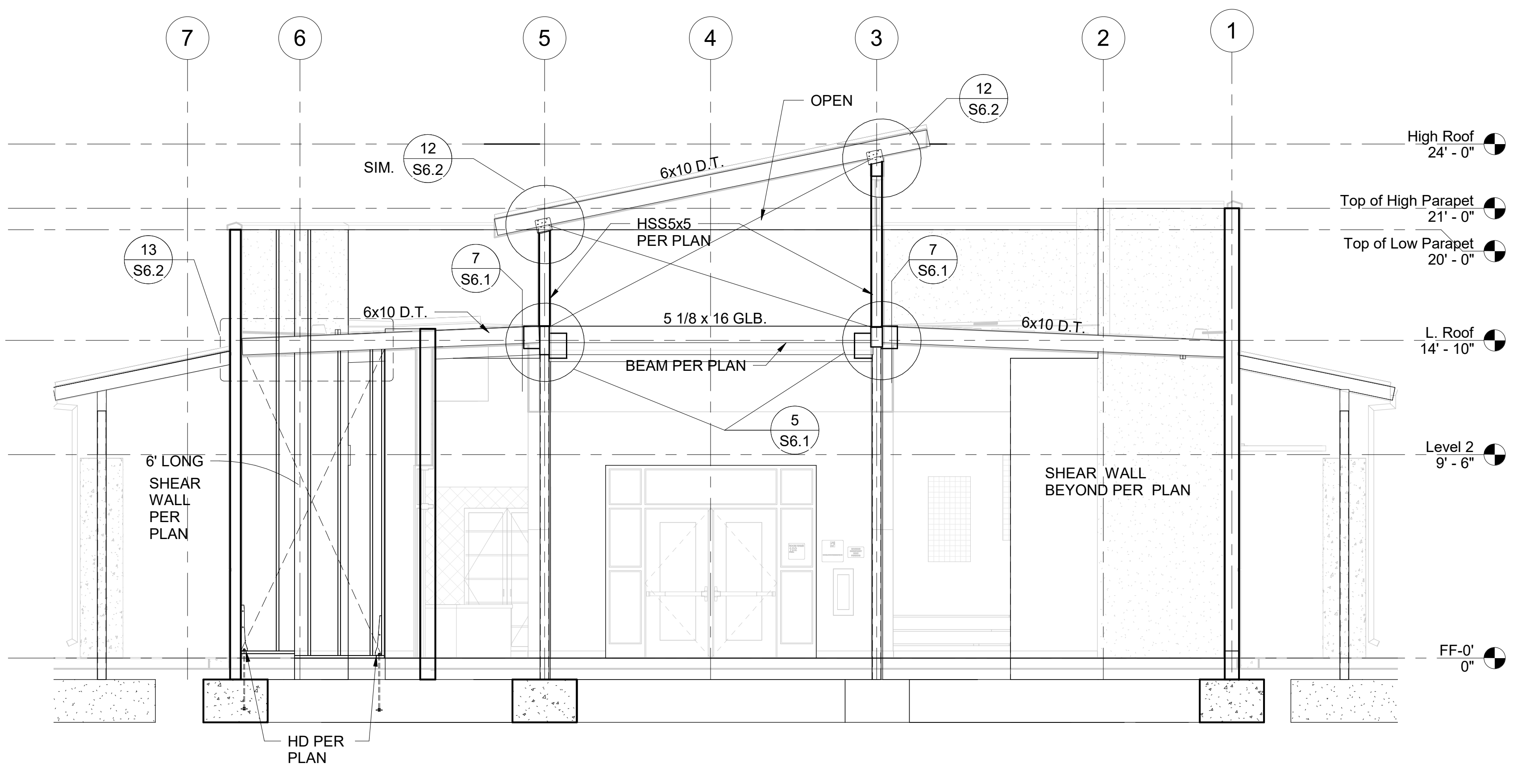
* FTG THK TO MATCH GRADE BEAM WHEN ADJACENT

- STUD WALLS:**
- ALL EXTERIOR STUD WALLS W/ PARAPETS SHALL BE 2x8 @ 16" O.C. U.N.O.
 - ALL INTERIOR WALLS AND EXTERIOR WALLS WITH NO PARAPETS SHALL BE 2x6 @ 16" O.C. U.N.O.

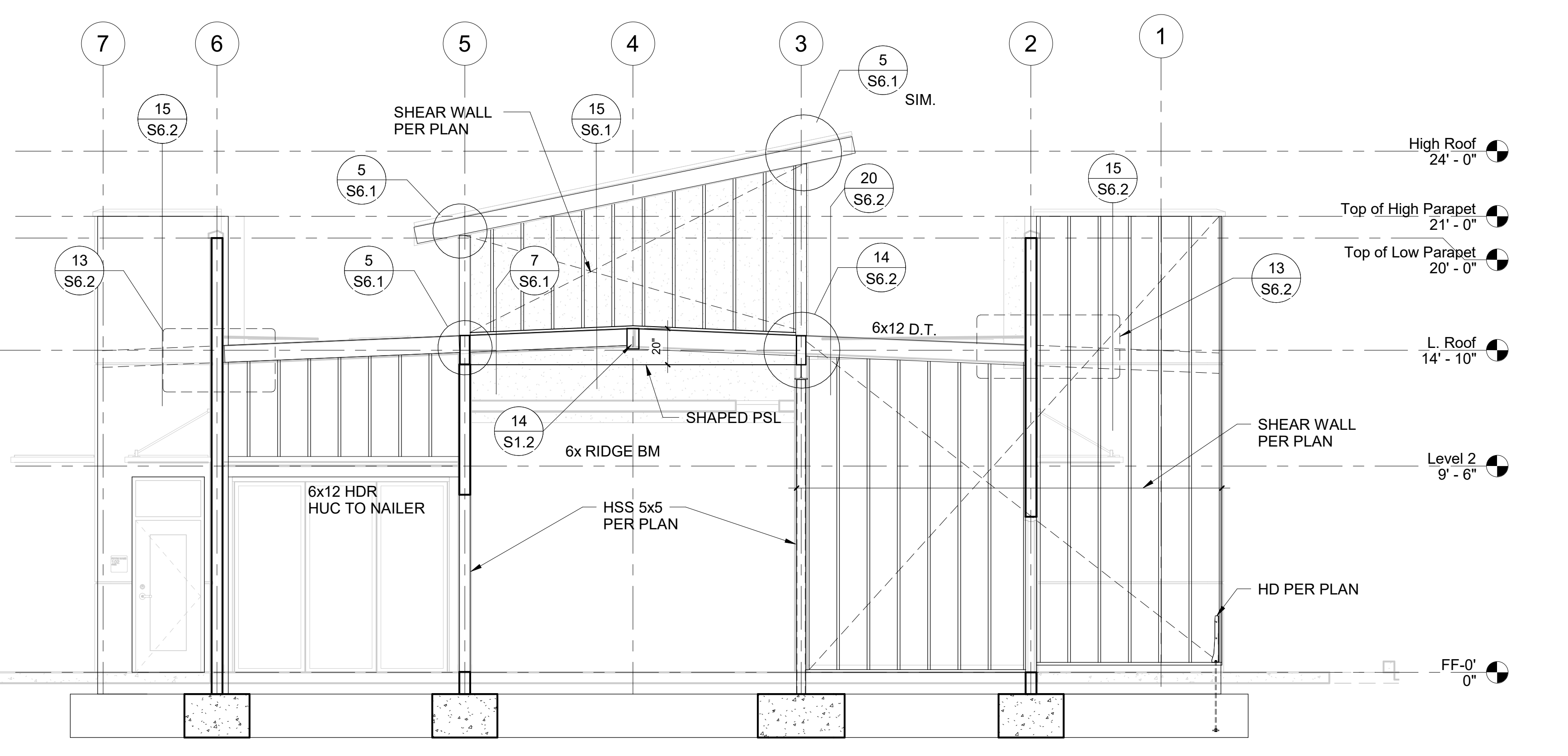
- FOUNDATION NOTES:**
- FOR STRUCTURAL NOTES AND TYPICAL DETAILS, REFER TO SHEET S0.1 THROUGH S1.3
 - INDICATES FINISH FLOOR ELEVATION
 - INDICATES CONTINUOUS FOOTING. SEE SECTION DETAIL FOR FOOTING THICKNESS AND REINFORCEMENT.
 - INDICATES 6" MIN. HIGH CONCRETE CURB
 - INDICATES BEARING AND/OR SHEAR WALL FTG.
 - INDICATES SHEAR WALL. SEE DETAIL 6/S1.2 FOR SHEAR WALL SCHEDULE
 L= INDICATES PLYWOOD PANEL LENGTH WHERE ACTUAL WALL IS LONGER THAN MINIMUM LENGTH SPECIFIED ON PLAN. EXTEND SHEAR PANEL & HOLDOWNS ACCORDINGLY TO EDGE OF WALL. REFER TO DETAIL 11/S1.3.
 - SEE DETAIL 13/S1.3 FOR TYPICAL HOLDOWN DETAIL (H.D. AS NOTED ON PLANS)
 - ALL HARDWARE TO BE SIMPSON STRONG TIE PRODUCT OR APPROVED EQUAL
 - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN. COORDINATE ALL POST-COLUMN HOLDOWNS, ETC., BASED ON ARCHITECTURAL DRAWINGS UNLESS NOTED OTHERWISE.
 - SOILS ENGINEER SHALL INSPECT AND APPROVE BOTTOM OF ALL FOUNDATIONS PRIOR TO CONTRACTOR PLACING REINFORCEMENT OR CONCRETE.
 - ALL EXTERIOR STUD WALLS (INCLUDING NON-SHEAR WALLS) SHALL BE COVERED W/ MIN. 1/2" THICK STRUCT 1 PLYWOOD FOR ARCH'L FINISH. OUTSIDE FACE OF PLYWOOD SHALL BE FLUSH WITH OUTSIDE FACE OF CONCRETE CURB. USE 10d NAILS @ 6" O.C.(EDGE) & 12" O.C. (FIELD) FOR ALL PLYWOOD U.N.O.
 - NOT USED
 - ALL CONCRETE SLAB ON GRADE SHALL BE MIN. 4" THK. WITH #4 @ 18" O.C. EACH WAY OVER 4" MIN. SAND LAYER. PLACE MINIMUM 10 MIL VISQUEEN @ MID DEPTH SAND LAYER, OVER 4" FREE DRAINING GRAVEL LAYER COMPACTED TO 92%
 - S - S INDICATES STEPPED FOOTING. SEE DETAIL 6/S1.1
 - PIPES THROUGH FOOTINGS SEE
 - FOR FRAMING @ TYP. WALL OPENINGS SEE



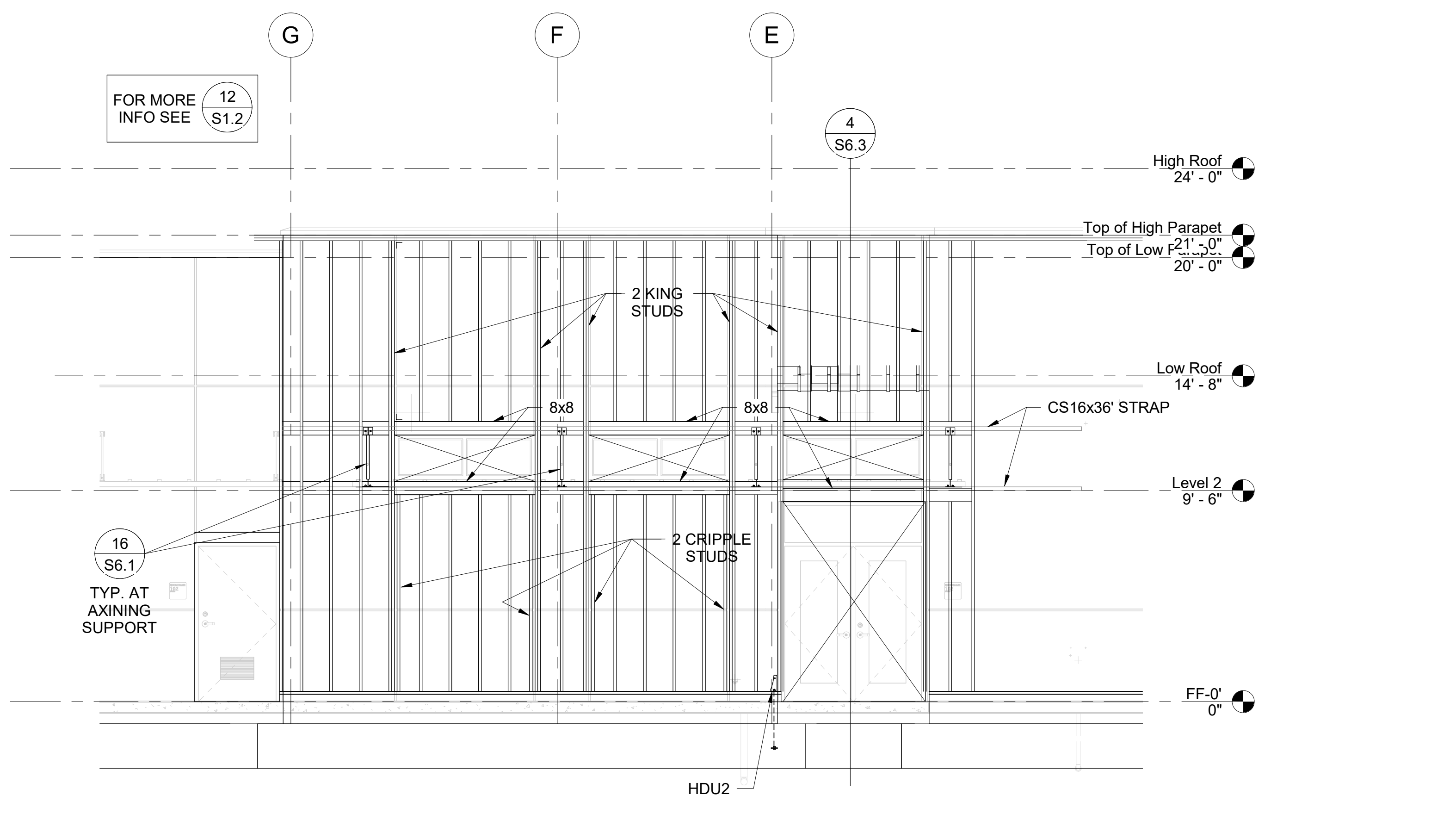
WALL ELEVATION LINE D 1/4" = 1'-0" 1



WALL ELEVATION LINE C 1/4" = 1'-0" 2



WALL ELEVATION LINE G 1/4" = 1'-0" 3



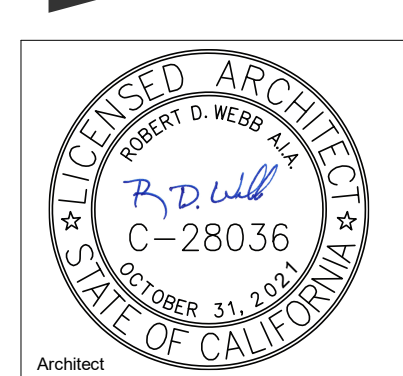
PARTIAL FRAMING WEST ELEV. 1/4" = 1'-0" 4

Revision	Date

WSI
 WELSH STRUCTURES, INC.
 ARCHITECTURE + ENGINEERING
 515 ENCINITAS BLVD. SUITE 201, ENCINITAS, CALIFORNIA 92024
 TEL: 760/753-8800 FAX: 760/452-7541



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 515 ENCINITAS BLVD. SUITE 201, ENCINITAS, CALIFORNIA 92024
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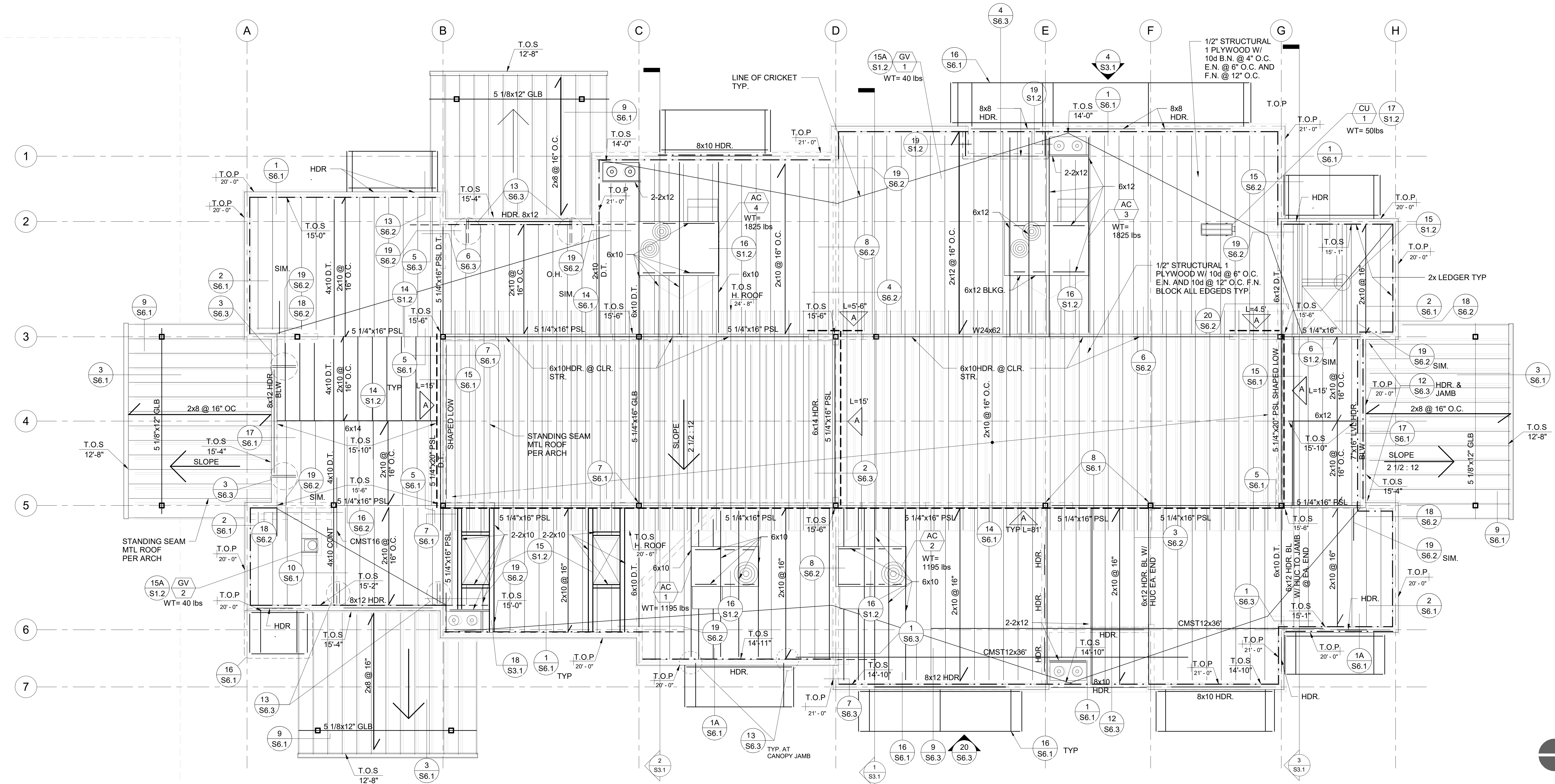
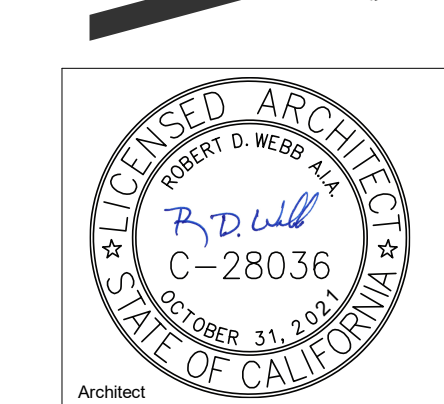
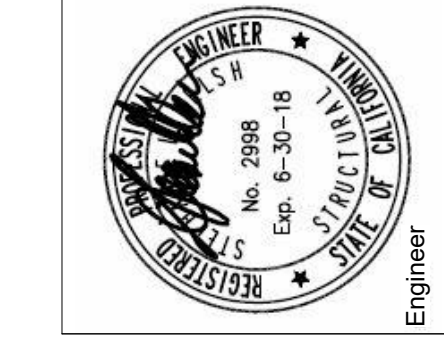


PROSPECT AVE - PRIDE ACADEMY
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 SANTEE SCHOOL DISTRICT

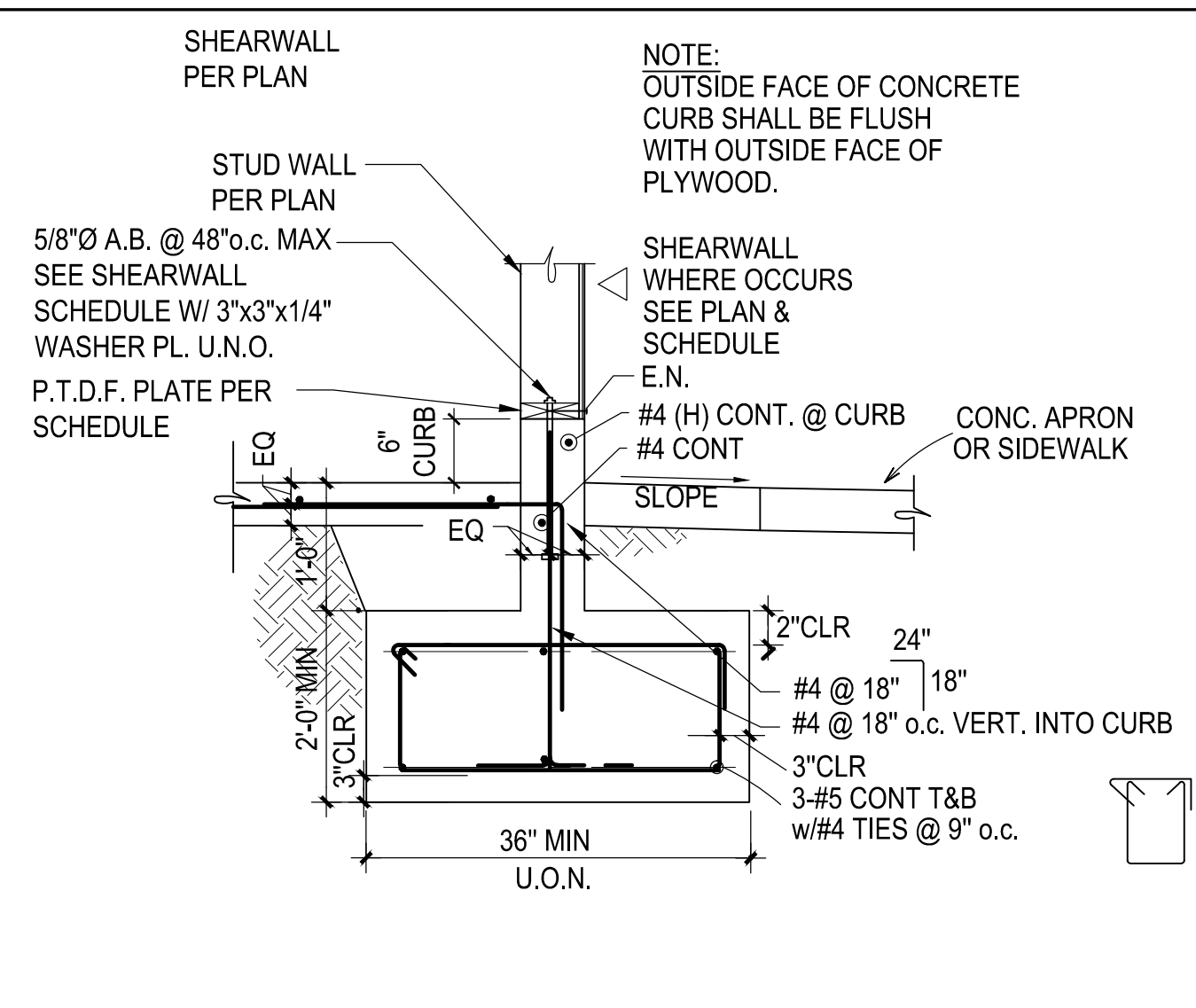
ELEVATIONS

Drawn: MR
 Checked: SW
 JANUARY 14, 2020
 Job: 19031

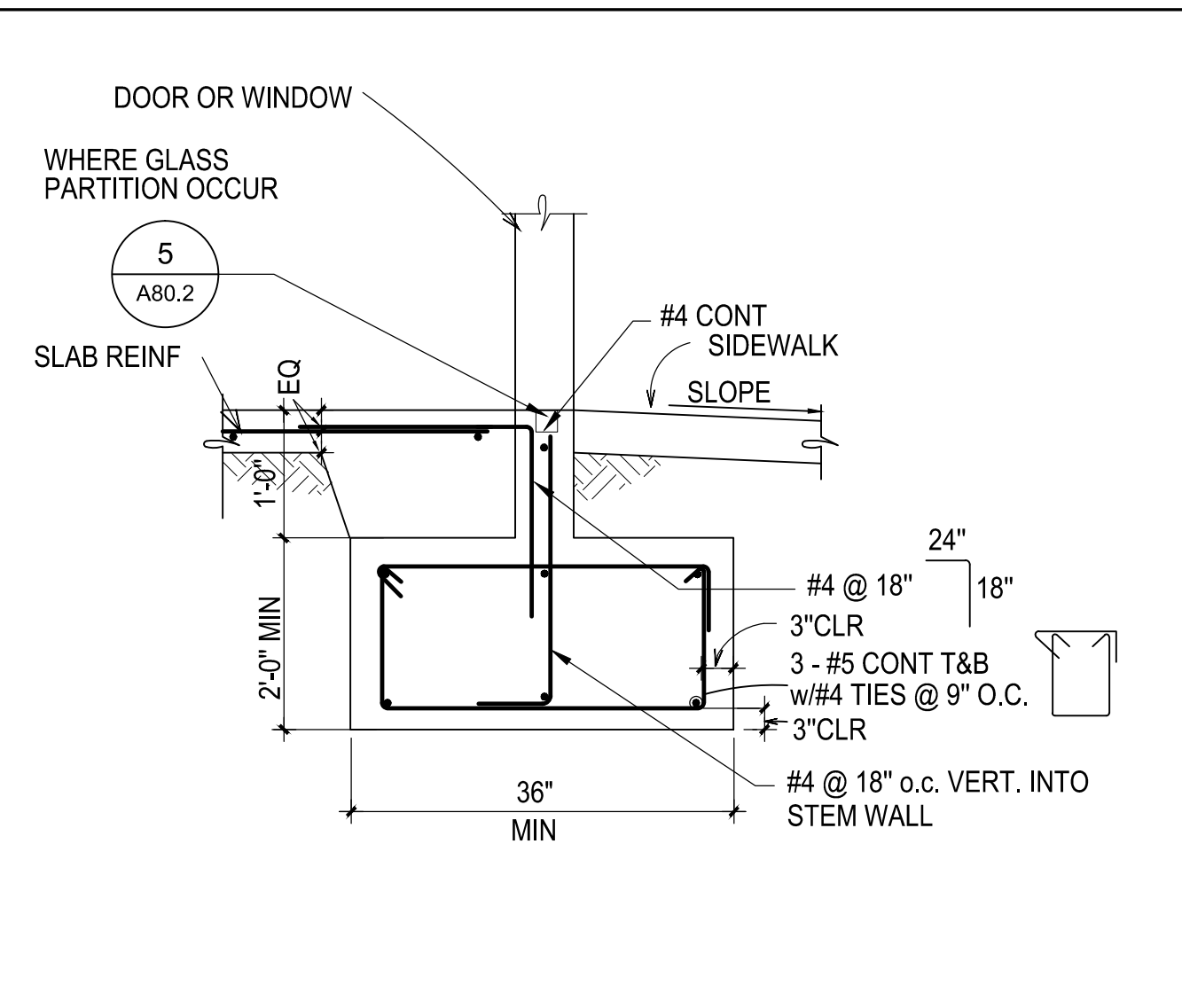
S3.1



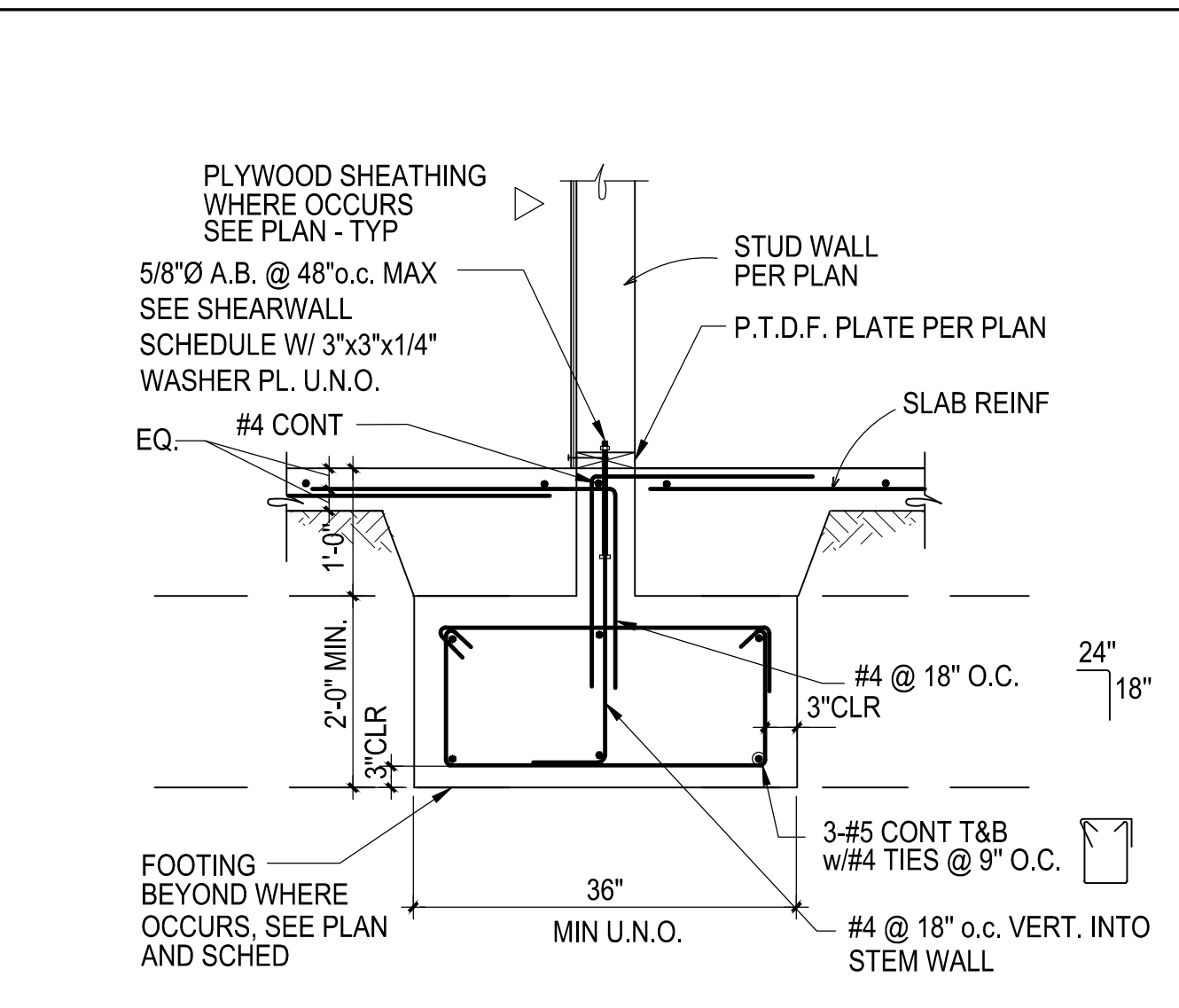
- ROOF FRAMING NOTES:**
- FOR STRUCTURAL GENERAL NOTES AND TYPICAL DETAILS, REFER TO SHEETS S0.1 THROUGH S1.3
 - SEE GENERAL NOTE ON SHEET S0.1 FOR DESIGN ROOF LIVE LOAD.
 - INDICATES ROOF DRAIN LOCATION. COORDINATE WITH ARCHITECTURAL ROOF PLAN. USE 2-JOIST @ HDR @ DRAIN/OVERFLOW PER 18/S1.3
 - SEE DETAIL 15/S1.2 FOR TYPICAL FRAMING AT ROOF OPENING UNLESS NOTED OTHERWISE.
 - SEE DETAIL 18/S1.2 FOR BLOCKING BETWEEN ROOF JOISTS.
 - D.T. DENOTES STRUT MEMBER. ALL STRUT LINES TO RECEIVE BOUNDARY NAILING
 - SEE 15, 15A, 16, & 17/S1.2 FOR FRAMING @ MECHANICAL UNITS
 - C= DENOTES CAMBER ON GLULAM BEAM
 - ALL PLYWOOD SHEATHING AT WALLS SHALL EXTEND TO ROOF SHEATHING AND/OR FRAMING
 - ALL HARDWARE TO BE "SIMPSON STRONG TIE" PRODUCT OR AN APPROVED EQUIVALENT
 - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN. COORDINATE ALL POST-COLUMN BASED ON ARCHITECTURAL DRAWINGS UNLESS NOTED OTHERWISE
 - ROOF SHEATHING SHALL BE 1/2" THICK STRUCT 1 PLYWOOD AND NAIL WITH 10d NAILS @ 6" O.C.(E), 6" O.C. (B), AND 12" O.C.(F) UNLESS NOTED OTHERWISE. BLOCK ALL EDGES, SEE 4/S1.2
 - FOR NON-BEARING INT. WALL. SEE DETAIL 2/S1.2 AND 3/S1.2
 - SEE 9/S1.2 FOR HEADER SIZES NOT SHOWN. SEE 12/S1.2 FOR FRAMING DET.
 - △ INDICATES SHEAR WALL SEE DETAIL 6/S1.2 FOR SHEAR WALL SCHEDULE
 L= INDICATES PLYWOOD PANEL LENGTH WHERE ACTUAL WALL IS LONGER THAN MINIMUM LENGTH SPECIFIED ON PLAN. EXTEND SHEAR PANEL & HOLD-DOWNS ACCORDINGLY TO EDGE OF WALL. REFER TO DETAIL 11/S1.3
 - T.O.P. INDICATES TOP OF PARAPET
 - T.O.S. INDICATES TOP OF PLYWOOD SHEATHING
 - BEAM & JOIST HANGER NOT SHOWN SPECIFICALLY. SEE 14/S1.2



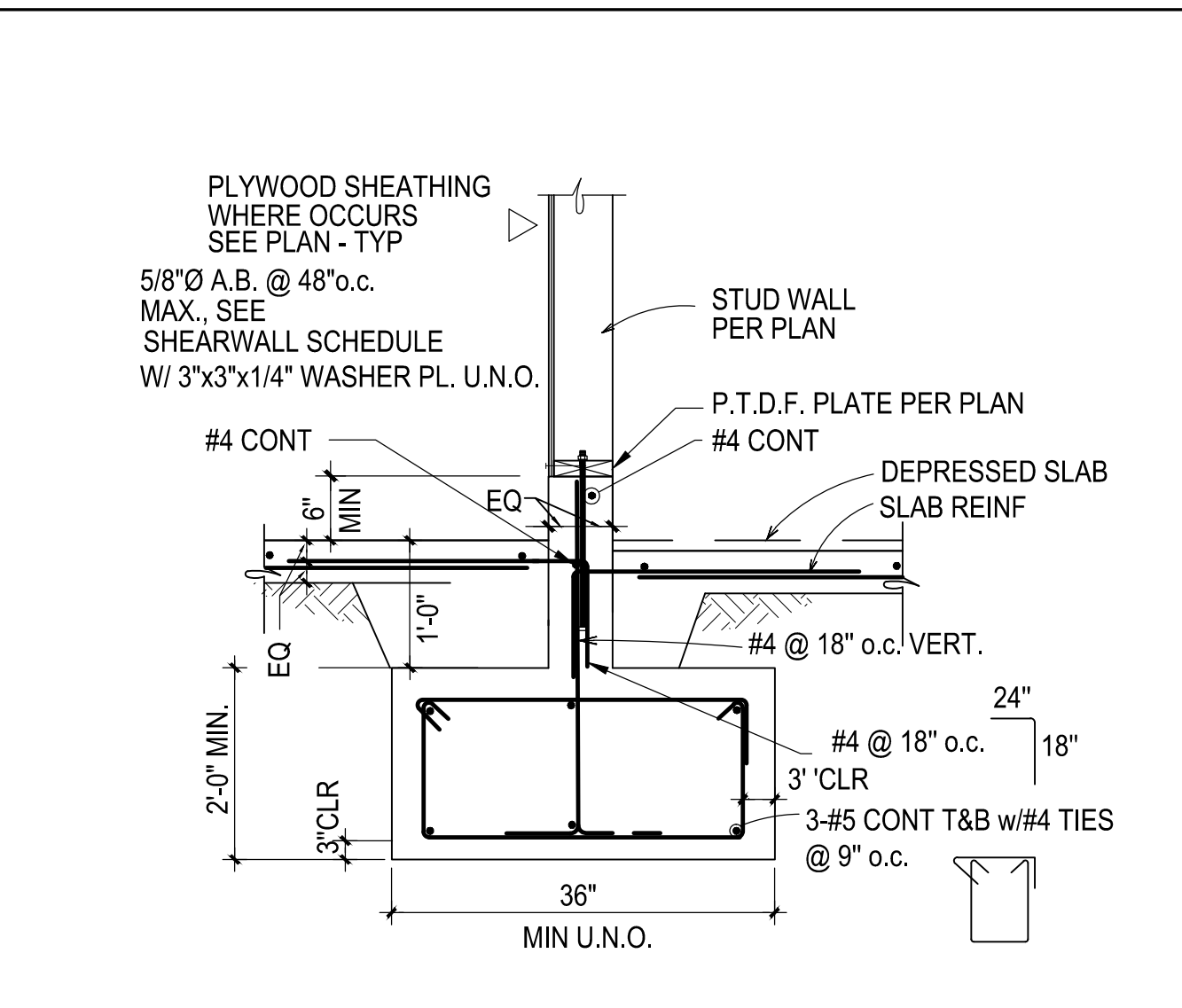
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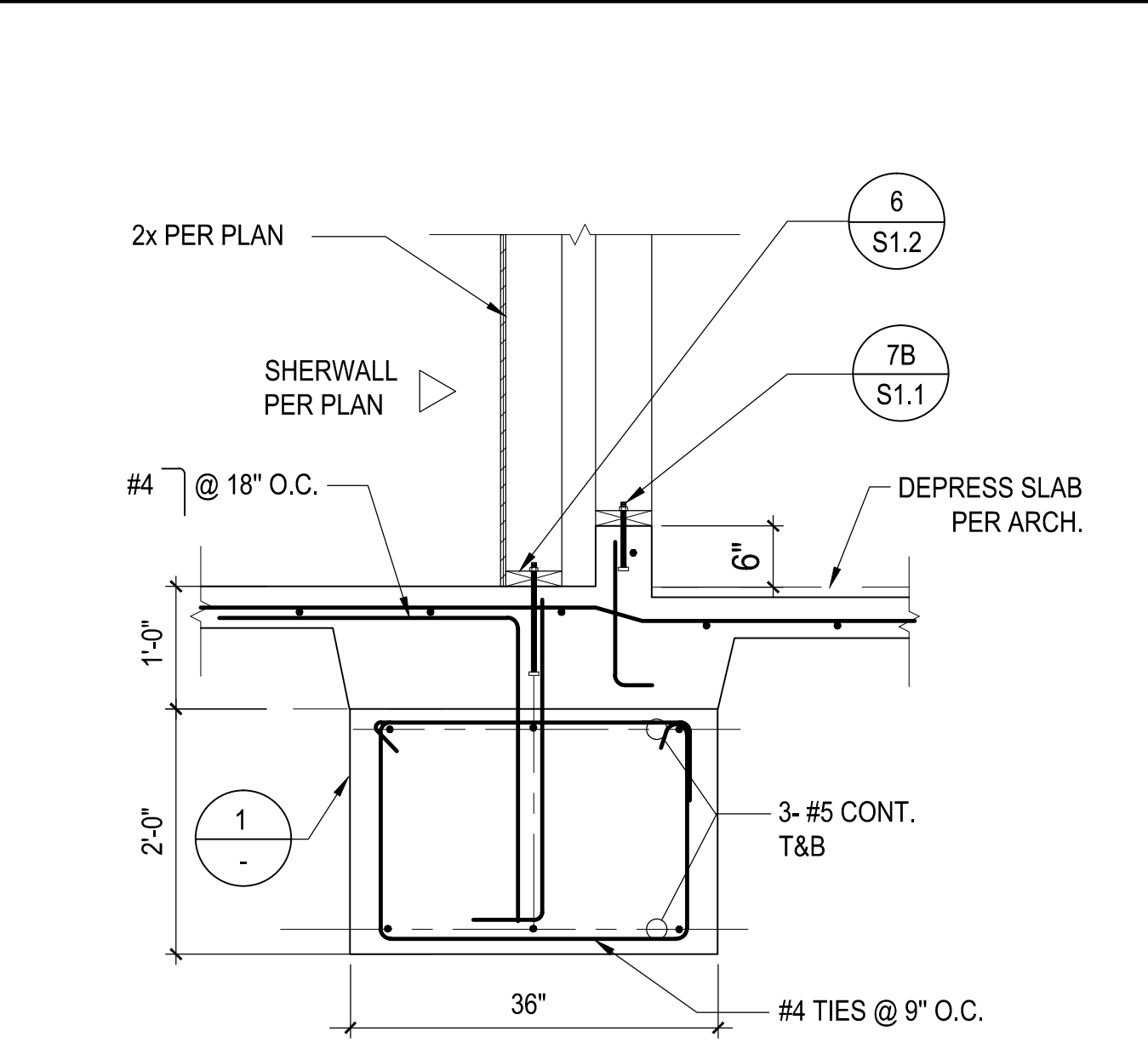
2 FOOTING @ DOOR OPENINGS



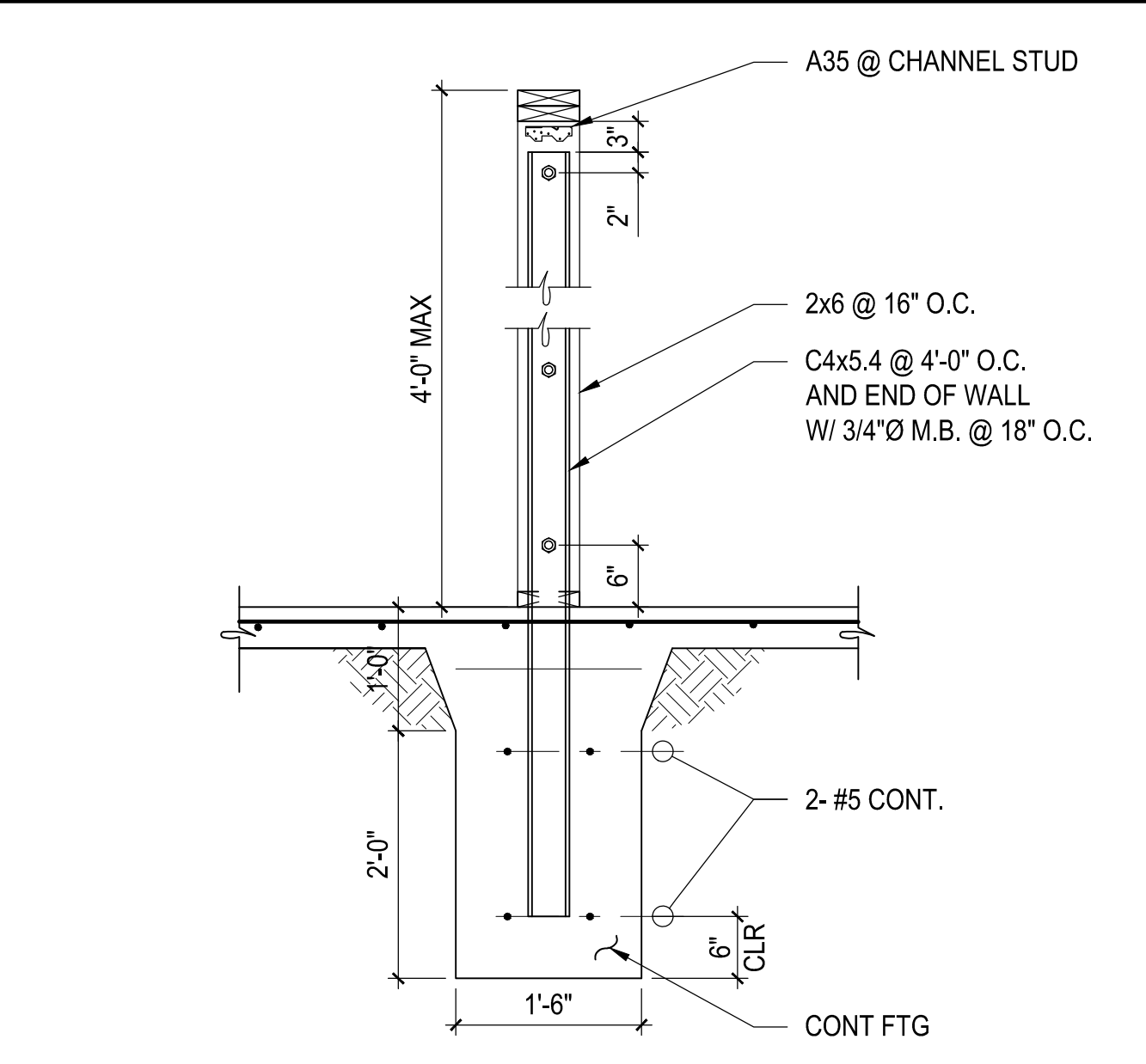
3 INTERIOR STUD WALL FTG



4 INTERIOR STUD WALL AT CURB



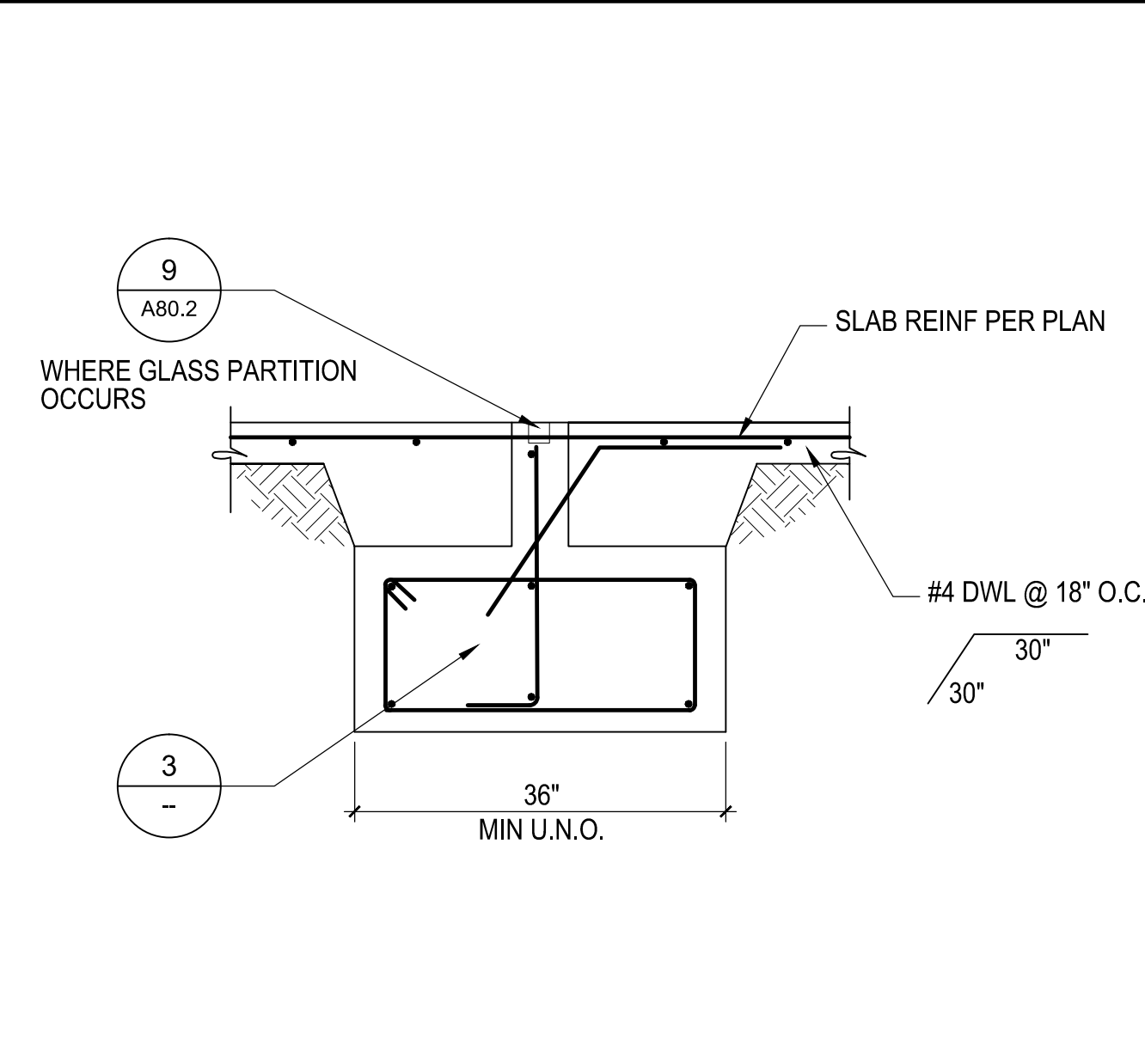
6 DETAIL



7 PARTIAL HEIGHT WALL



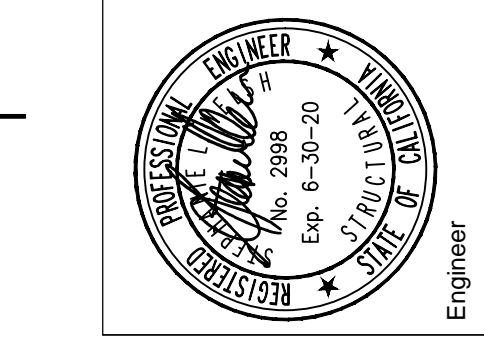
9 CANOPY COLUMN FOOTING



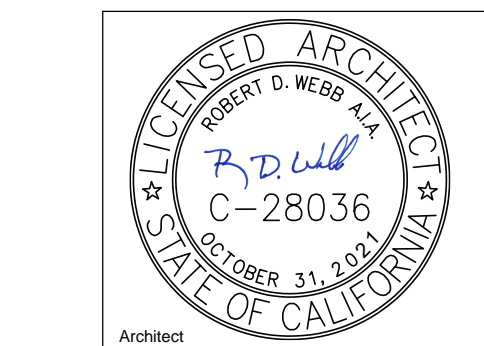
10 GRADE BEAM @ BLDG INTERIOR

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-118742 INC.
REVIEWED FOR
DATE: 02.05.20

Revision Date
WSI
WELSH STRUCTURES, INC.
12722 BARRETT LANE
SANTA ANA, CA 92705
TEL: 714-262-6297
FAX: 714-262-6297
CONSULTANT



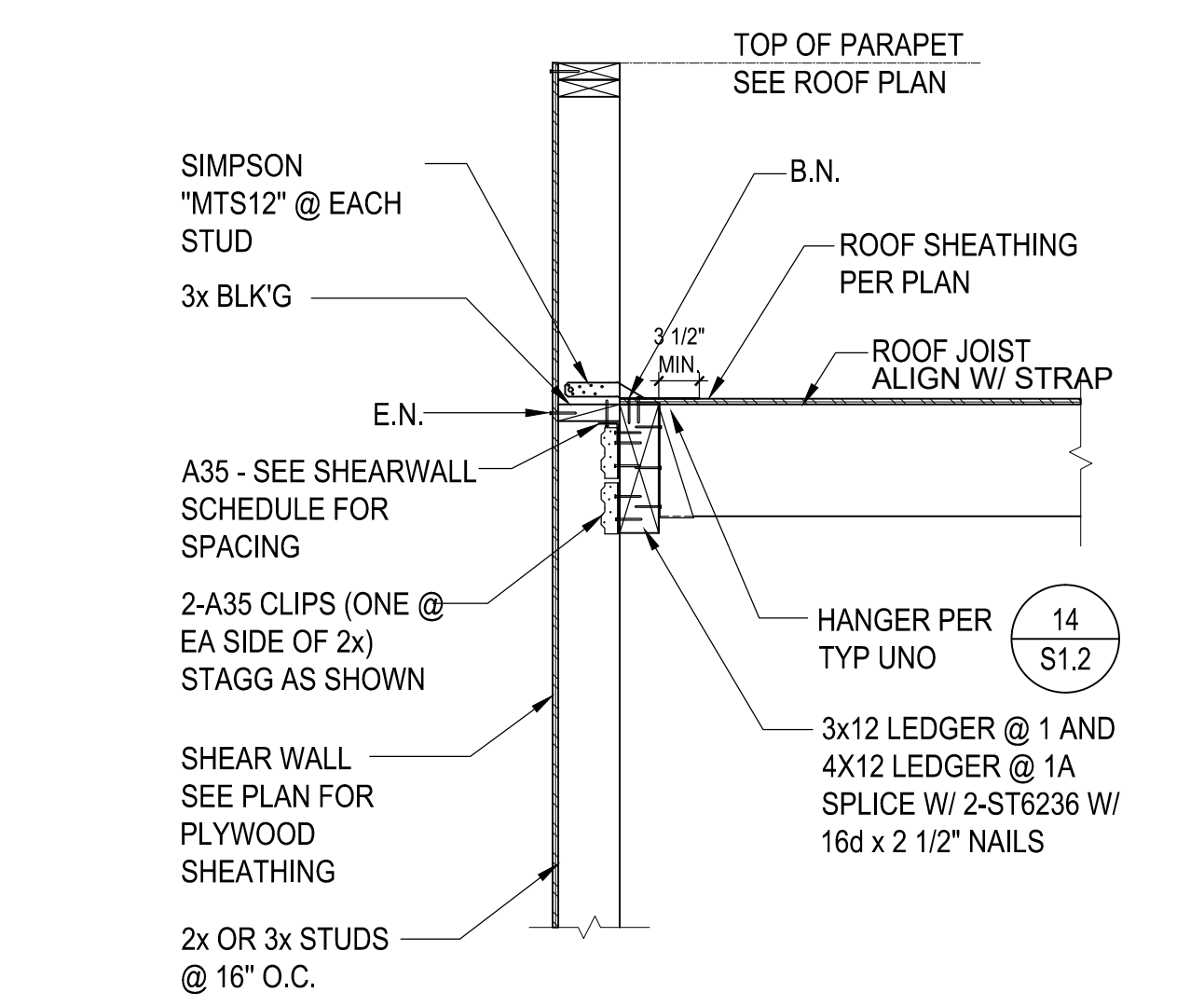
studiowc
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918 Encinitas Blvd. Ste. 201, Encinitas, California 92024
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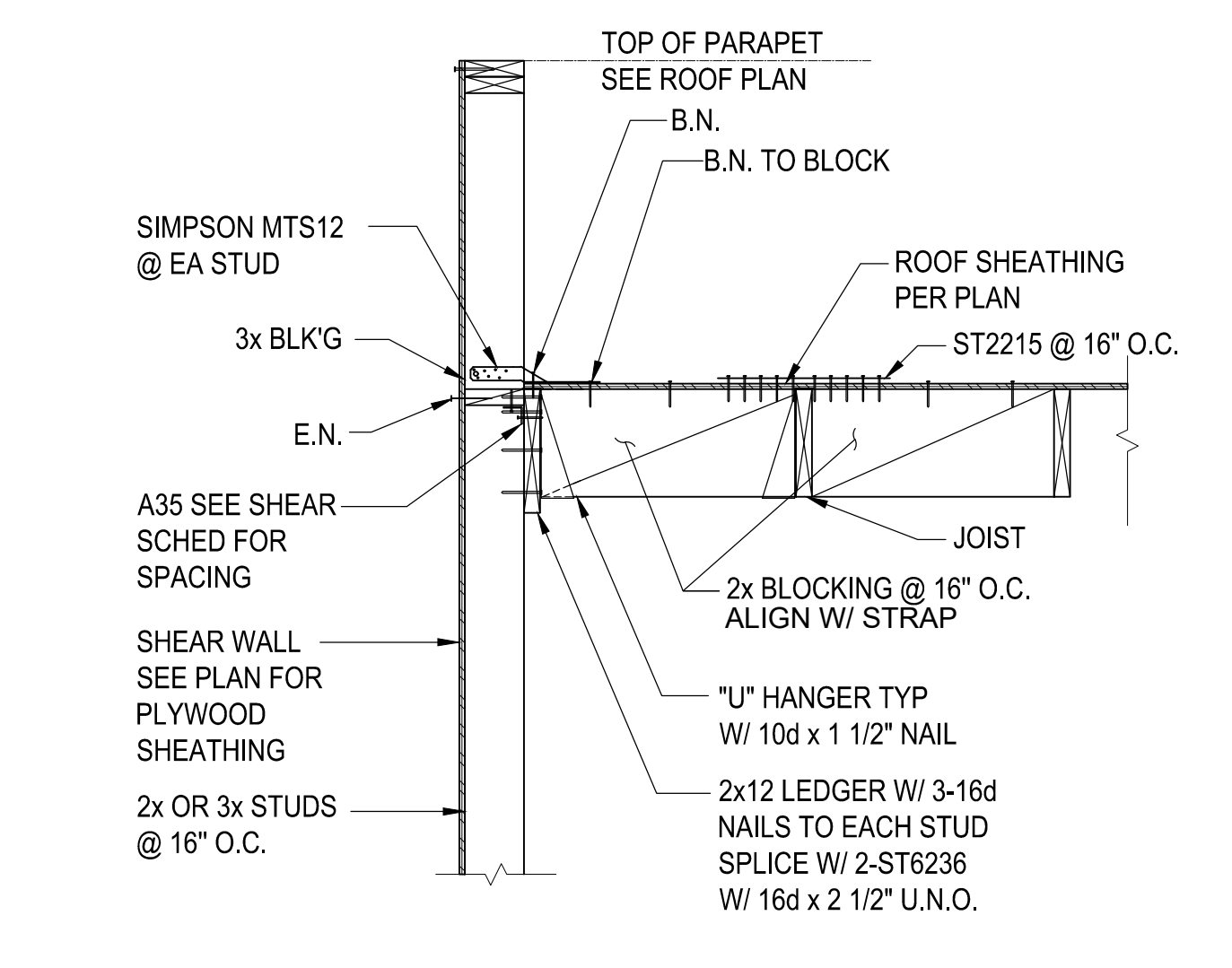
PROSPECT AVE - PRIDE ACADEMY
LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

Drawn: MR
Checked: SW
Date: JANUARY 14, 2020
Job: SSD-PA-03

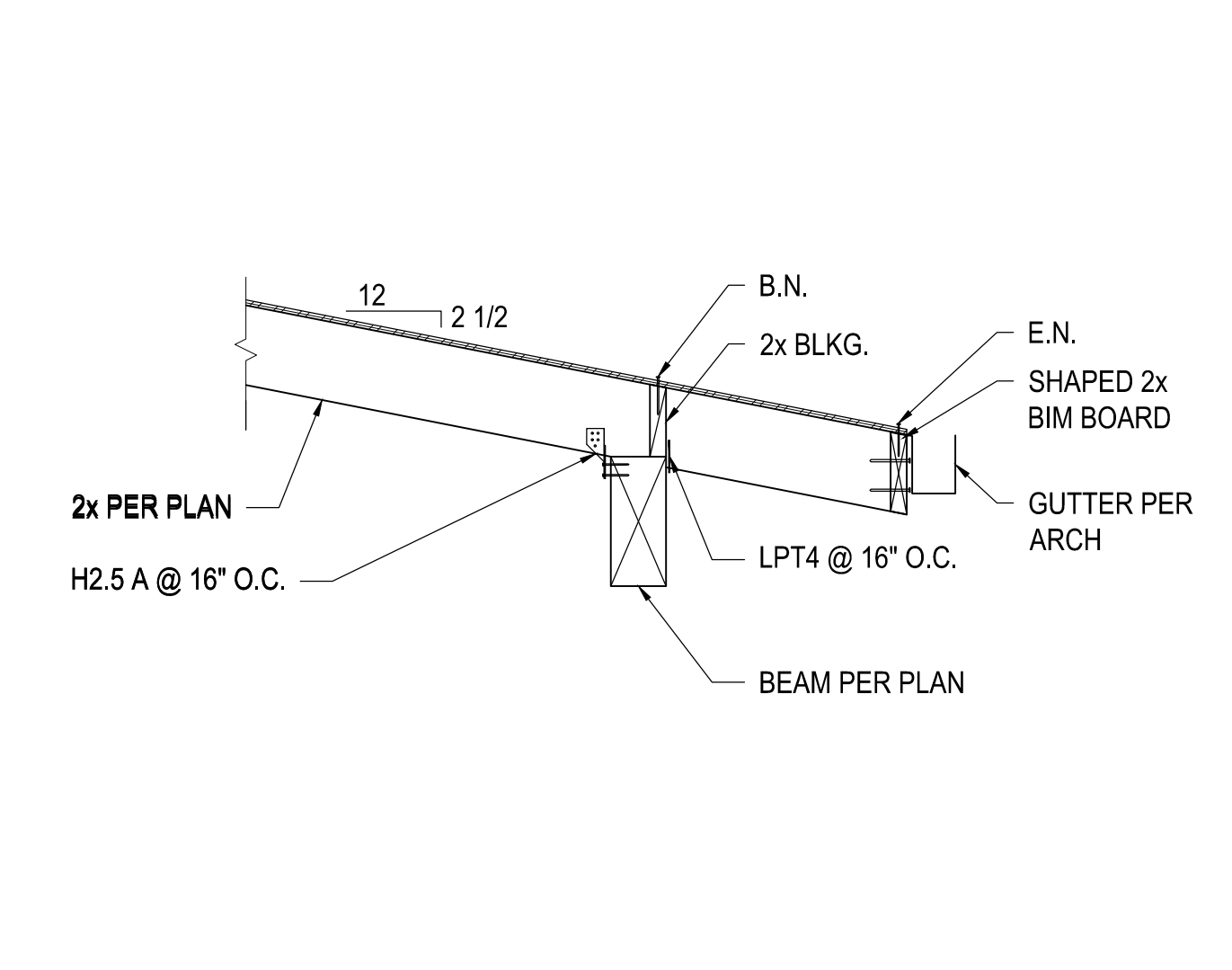
1 1A DETAIL



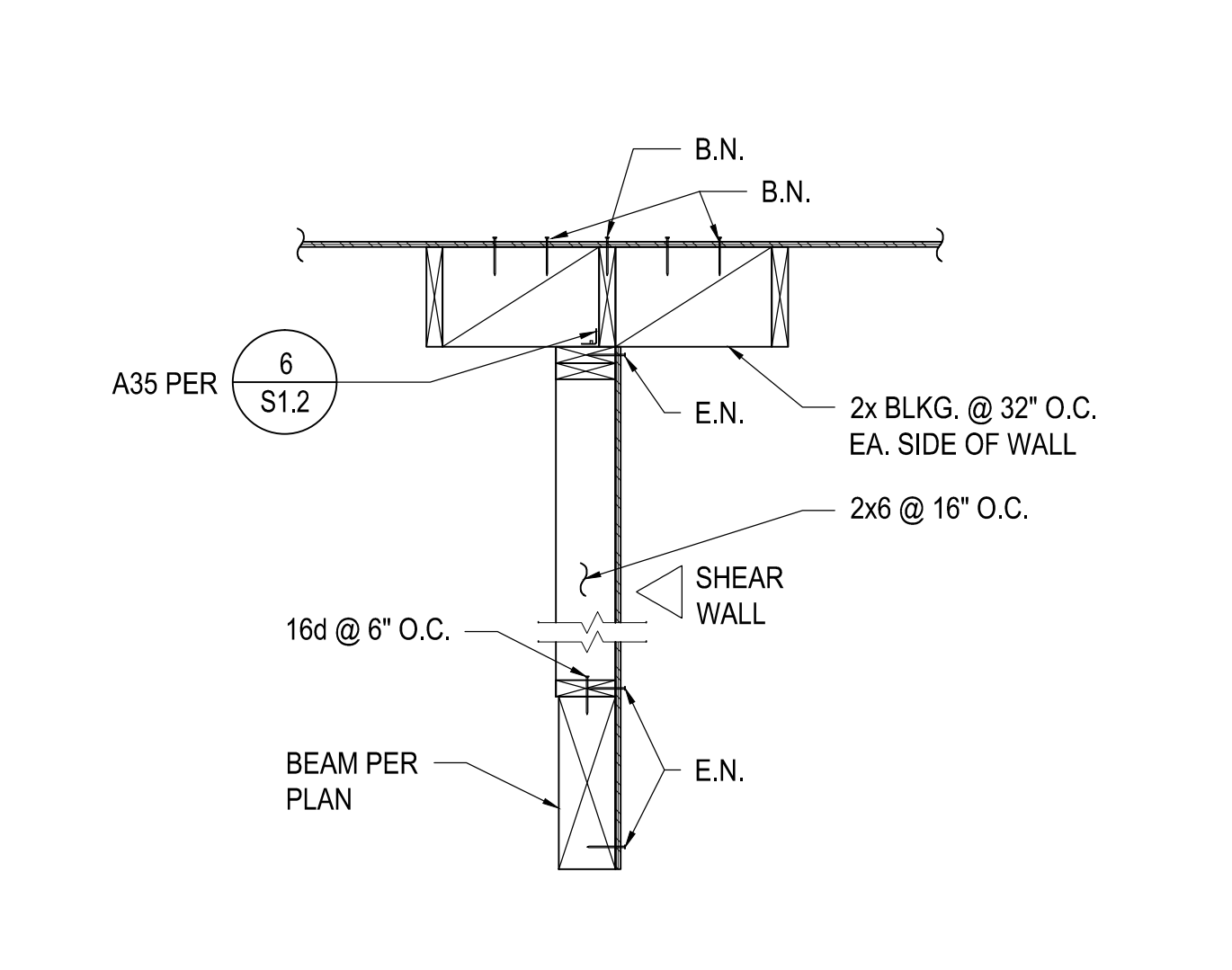
2 DETAIL



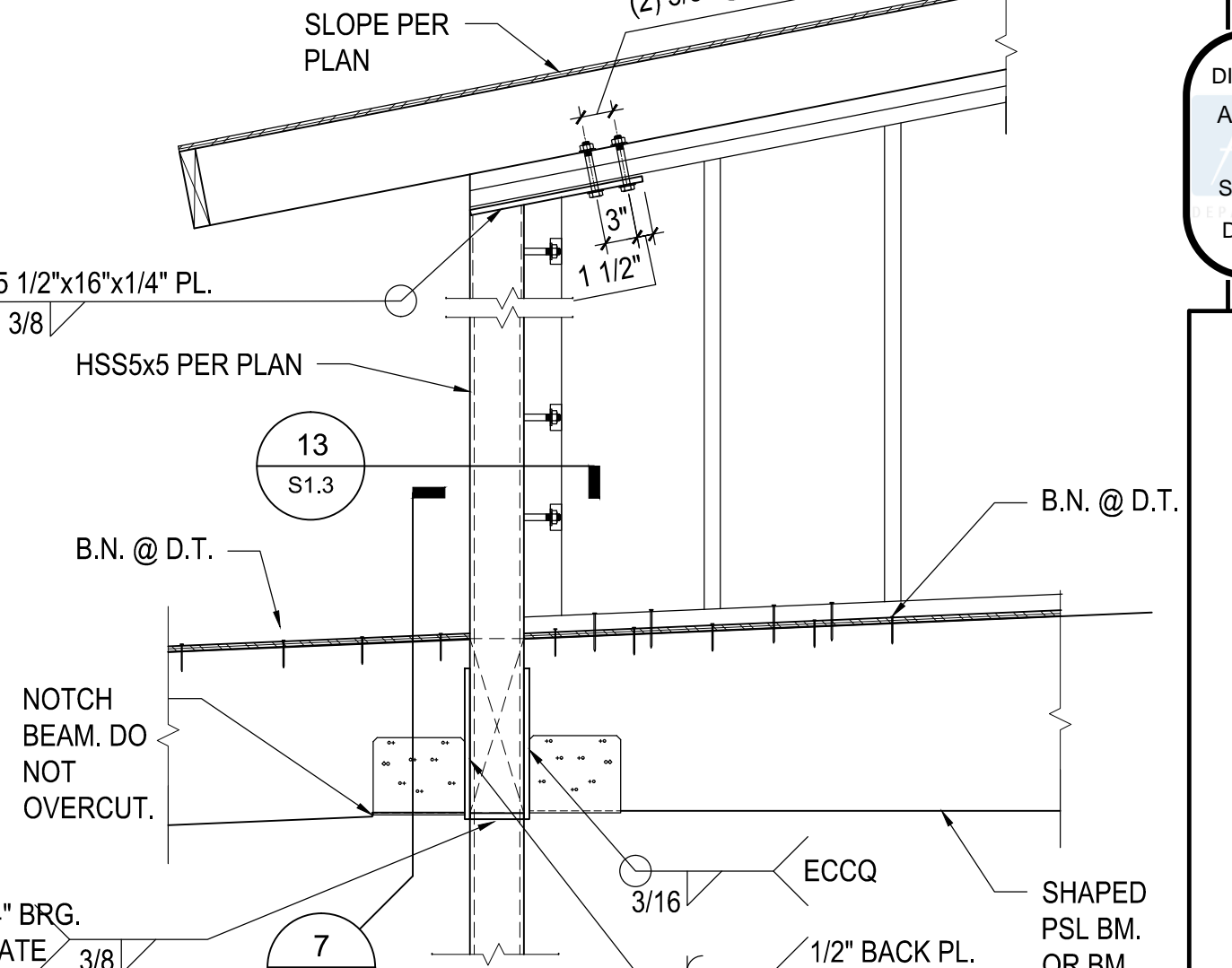
3 ROOF SECTION



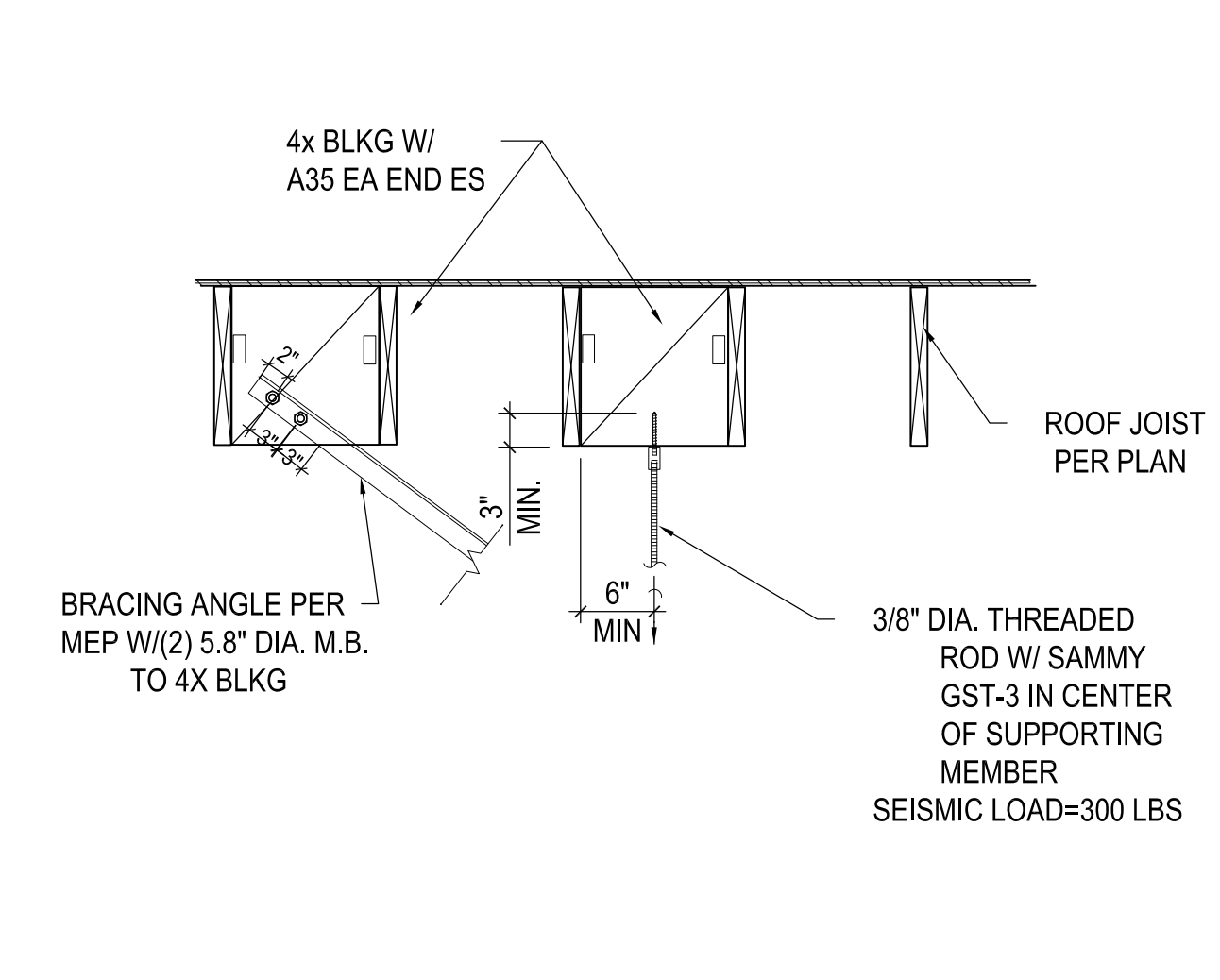
4 ROOF SECTION



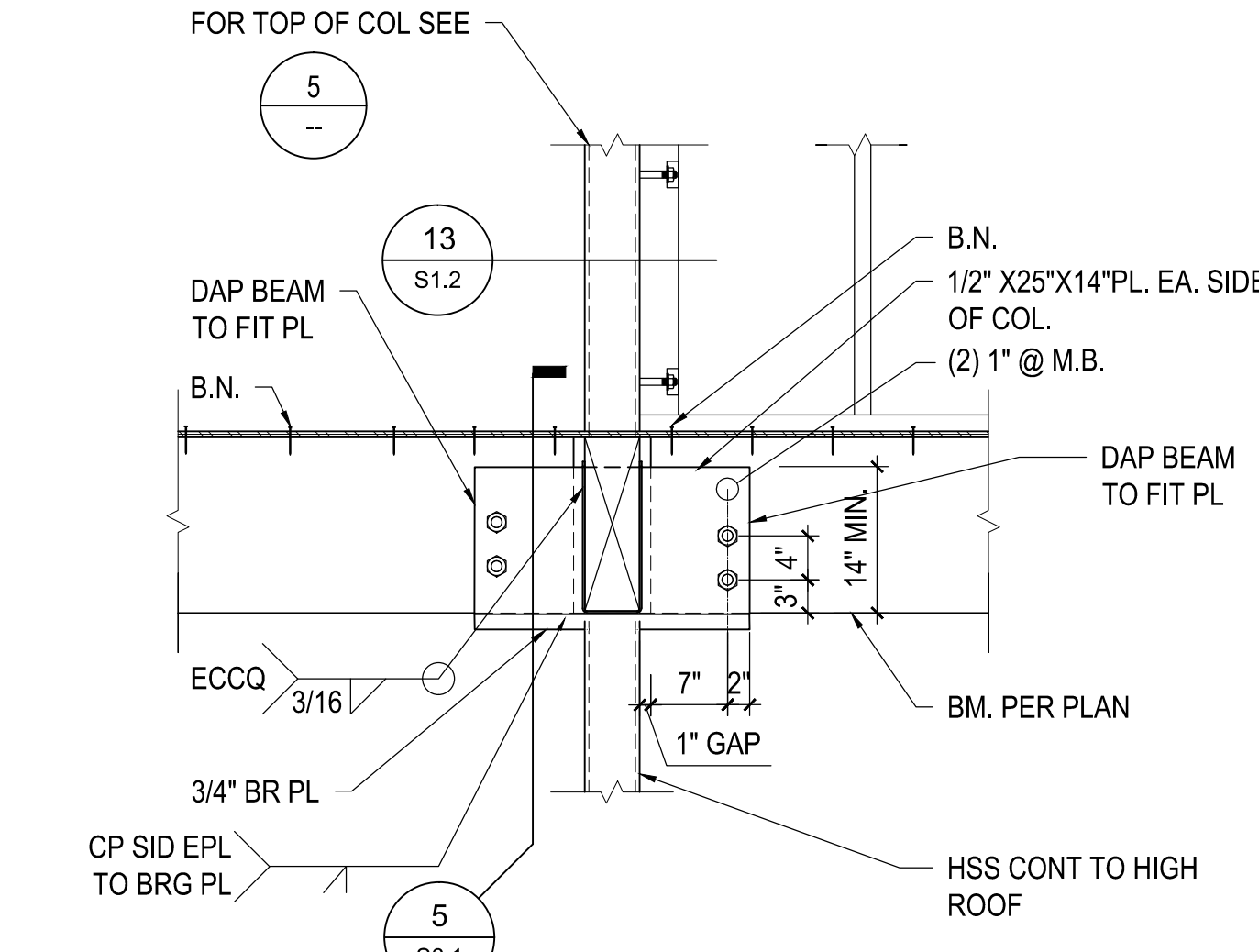
5 ROOF SECTION



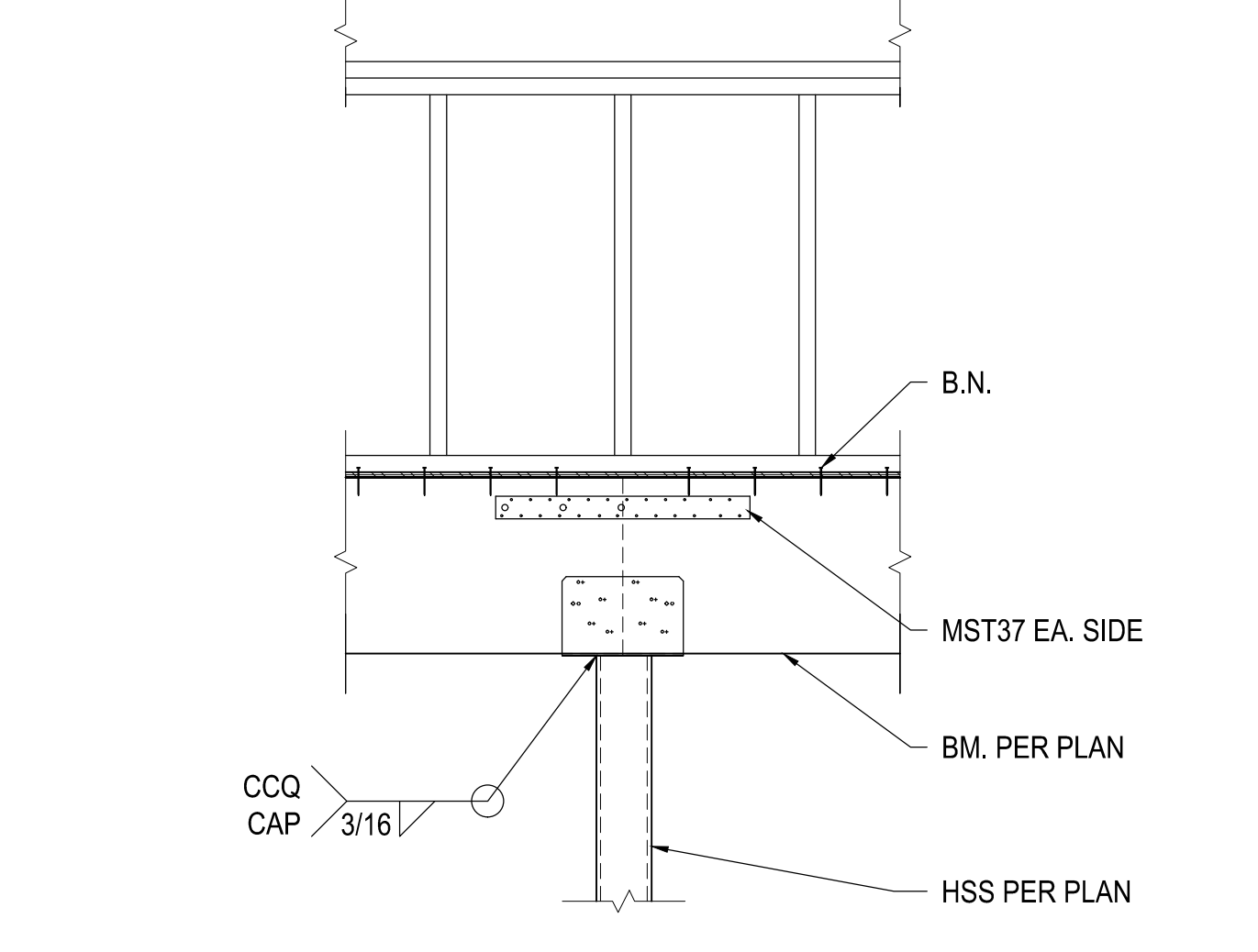
6 PIPE HANGER SUPPORT



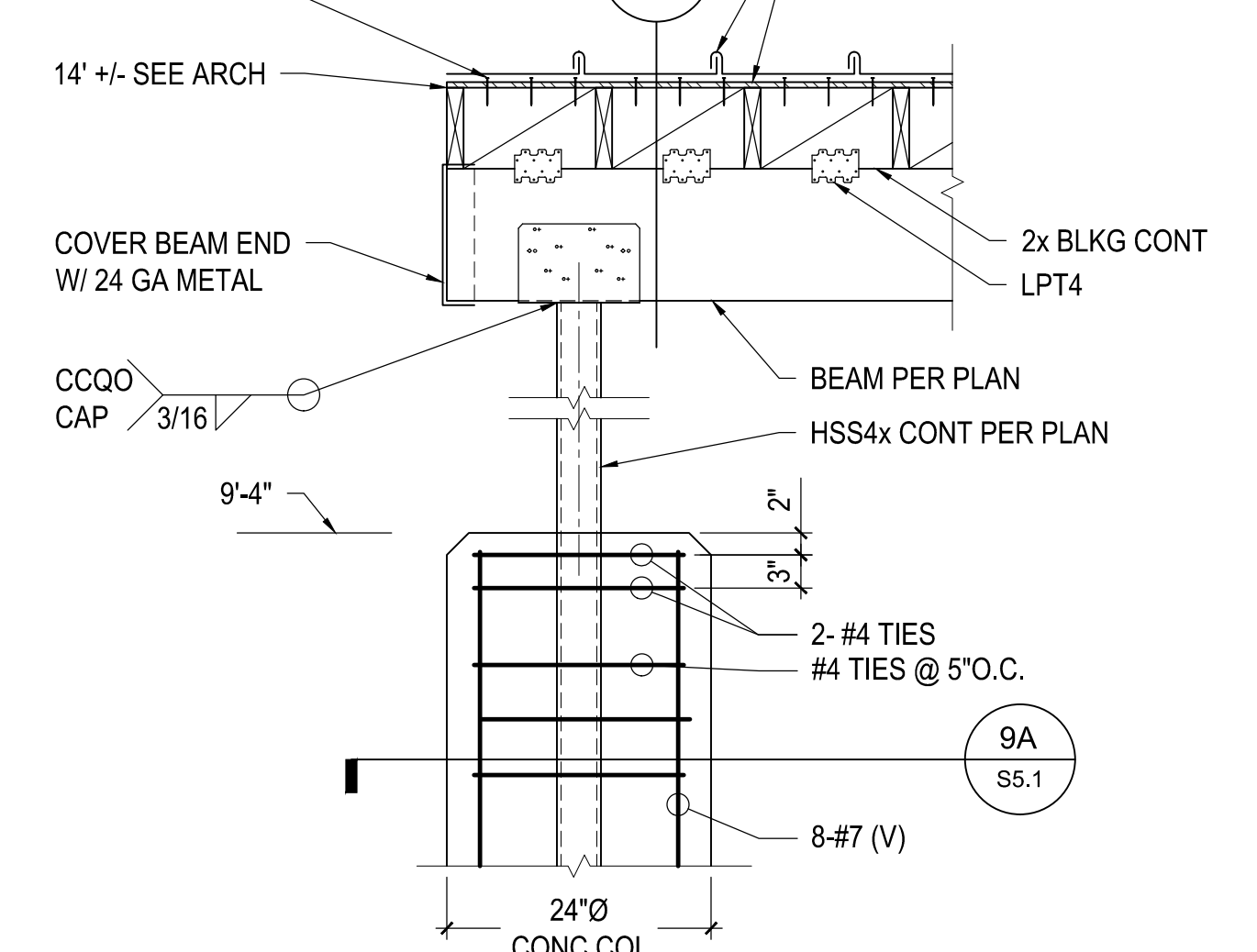
7 ROOF SECTION



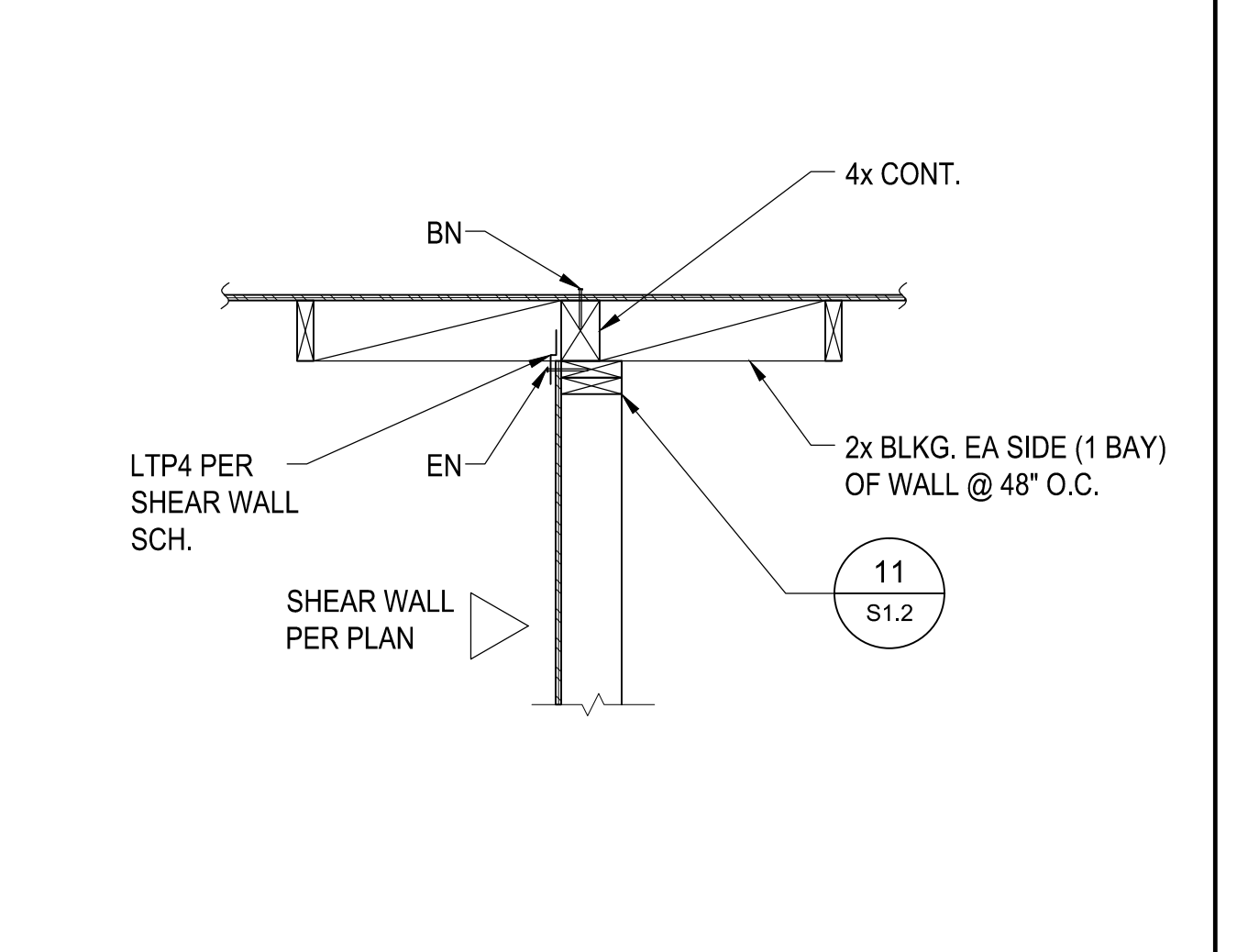
8 ROOF SECTION



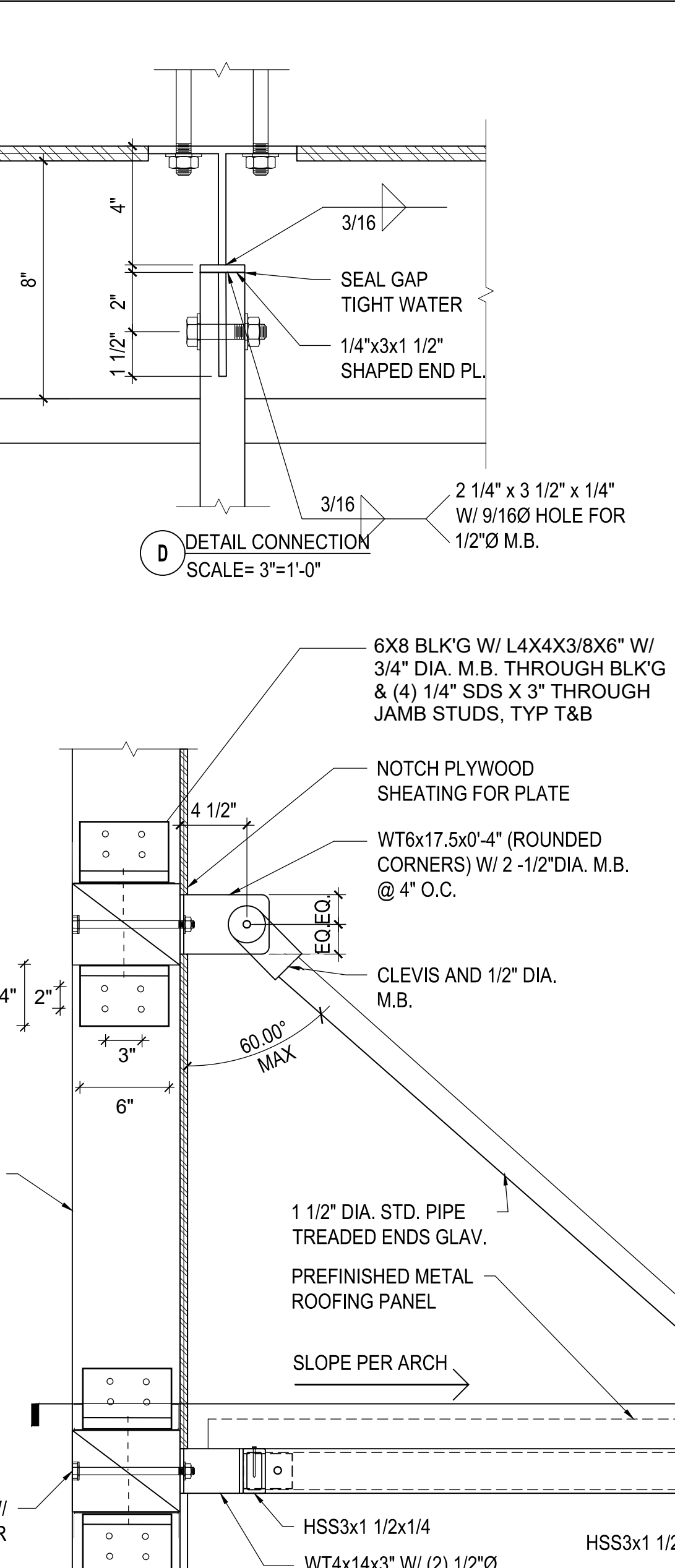
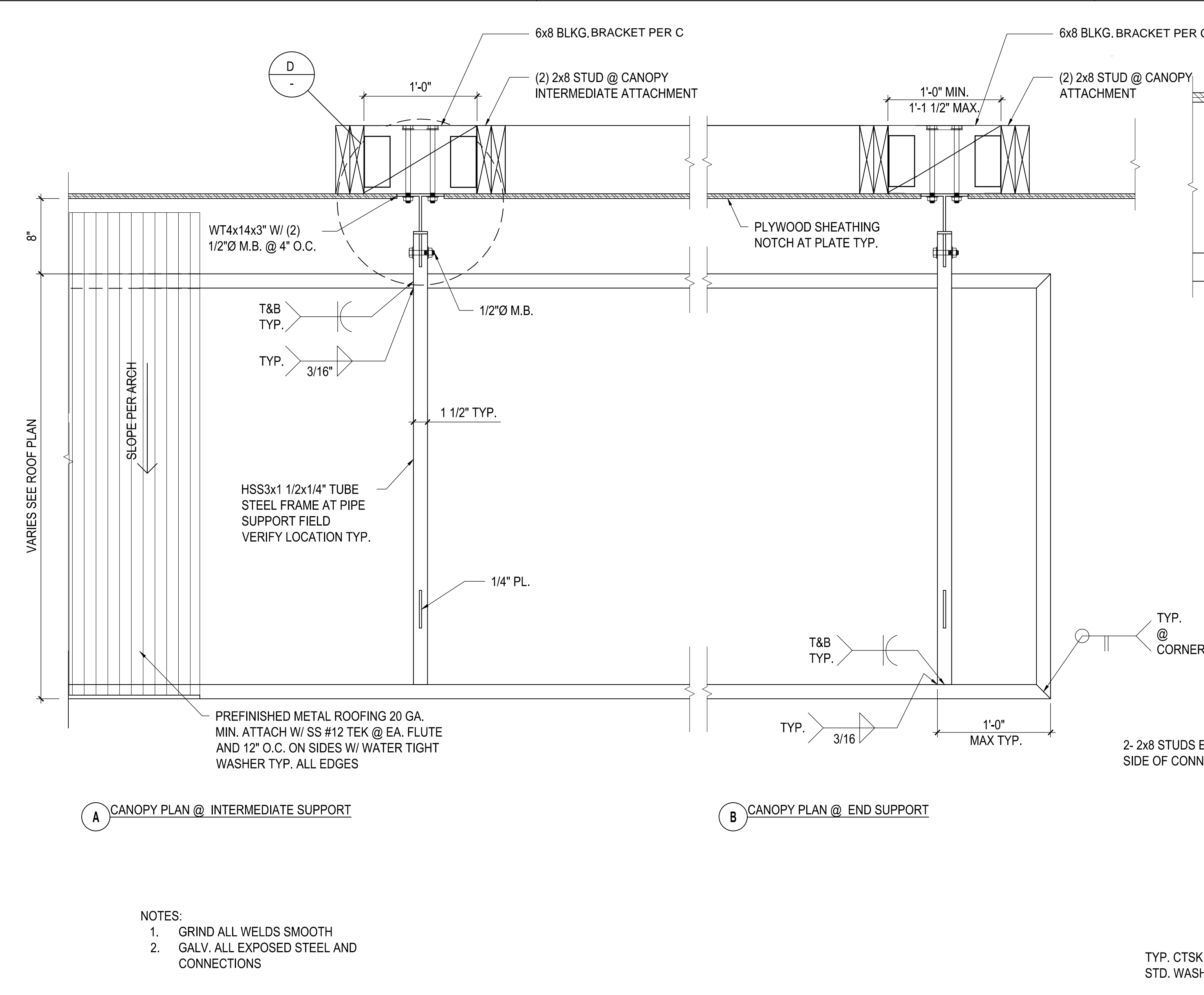
9 COL @ CANOPY



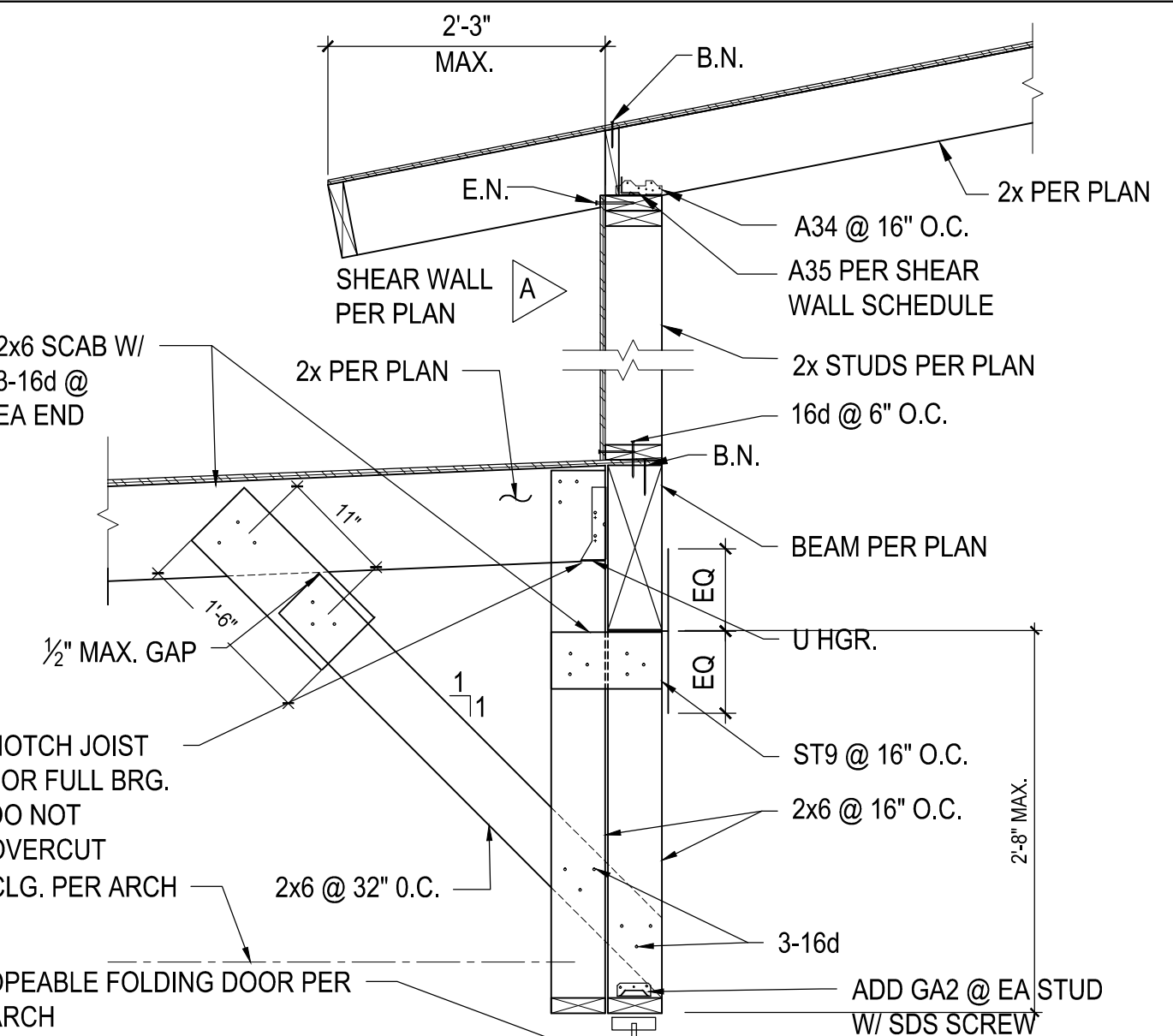
10 DETAIL



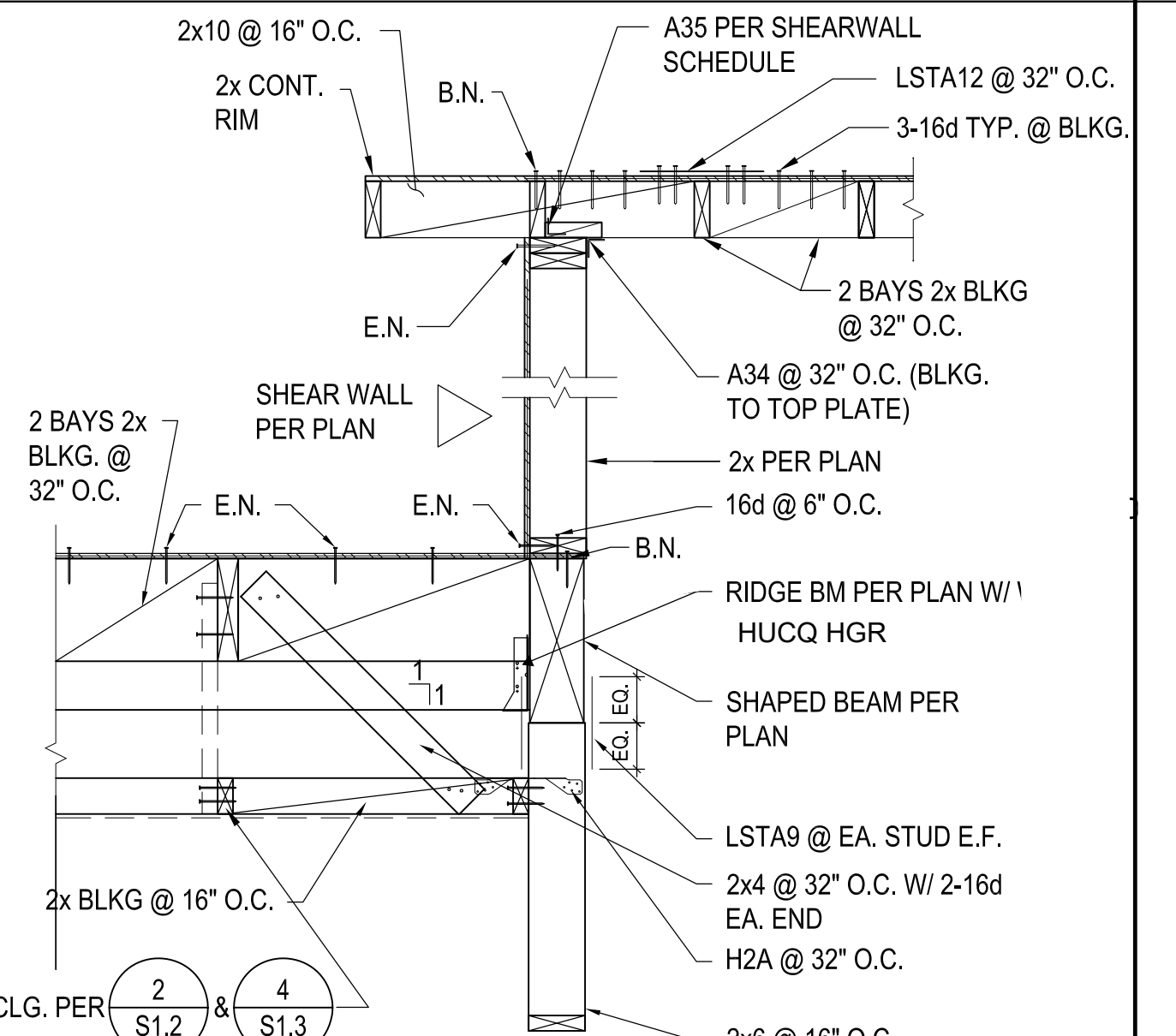
16 4' WIDE CANOPY



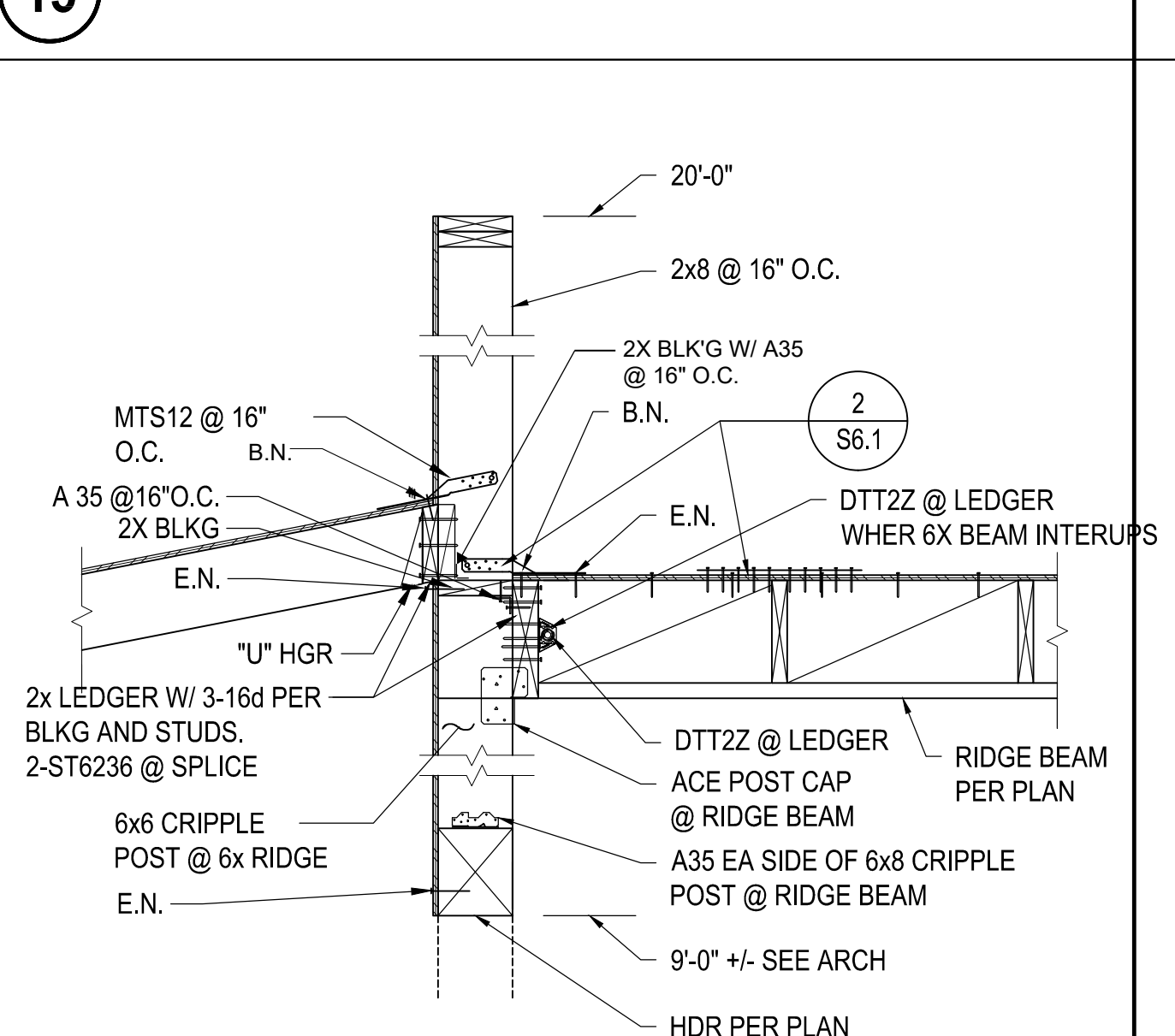
14 SECTION LINE 5



15 DETAIL



17 DETAIL



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-118742 INC.
REVIEWED FOR
SS □ FLSD □ ACS □
DATE: 02.05.20

Revision: _____ Date: _____

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Consultant

REGISTERED PROFESSIONAL ENGINEER
No. 2988
Exp. 6-30-20
STATE OF CALIFORNIA

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915 Encinitas Blvd. Ste. 201, Encinitas, California 92024
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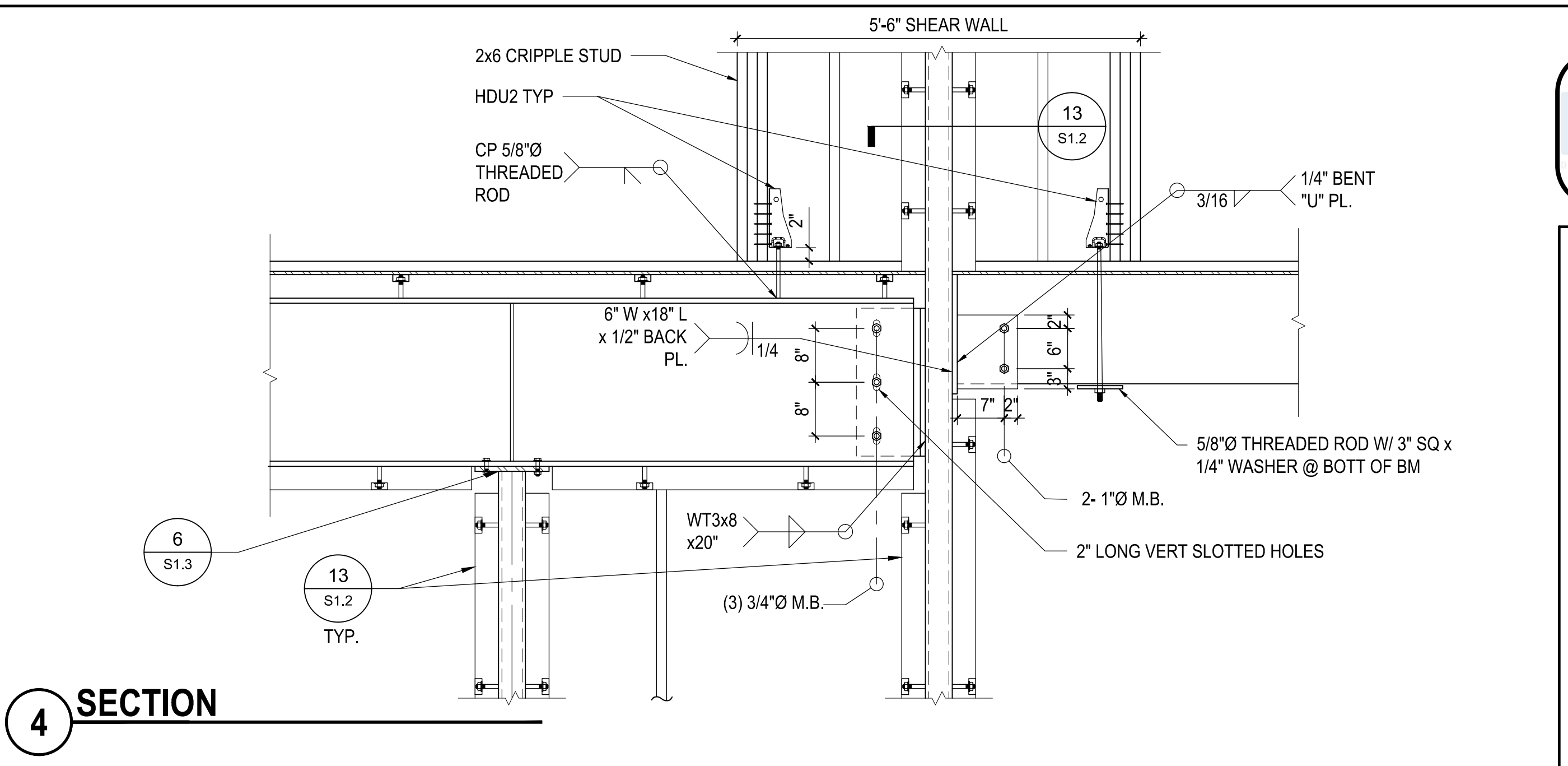
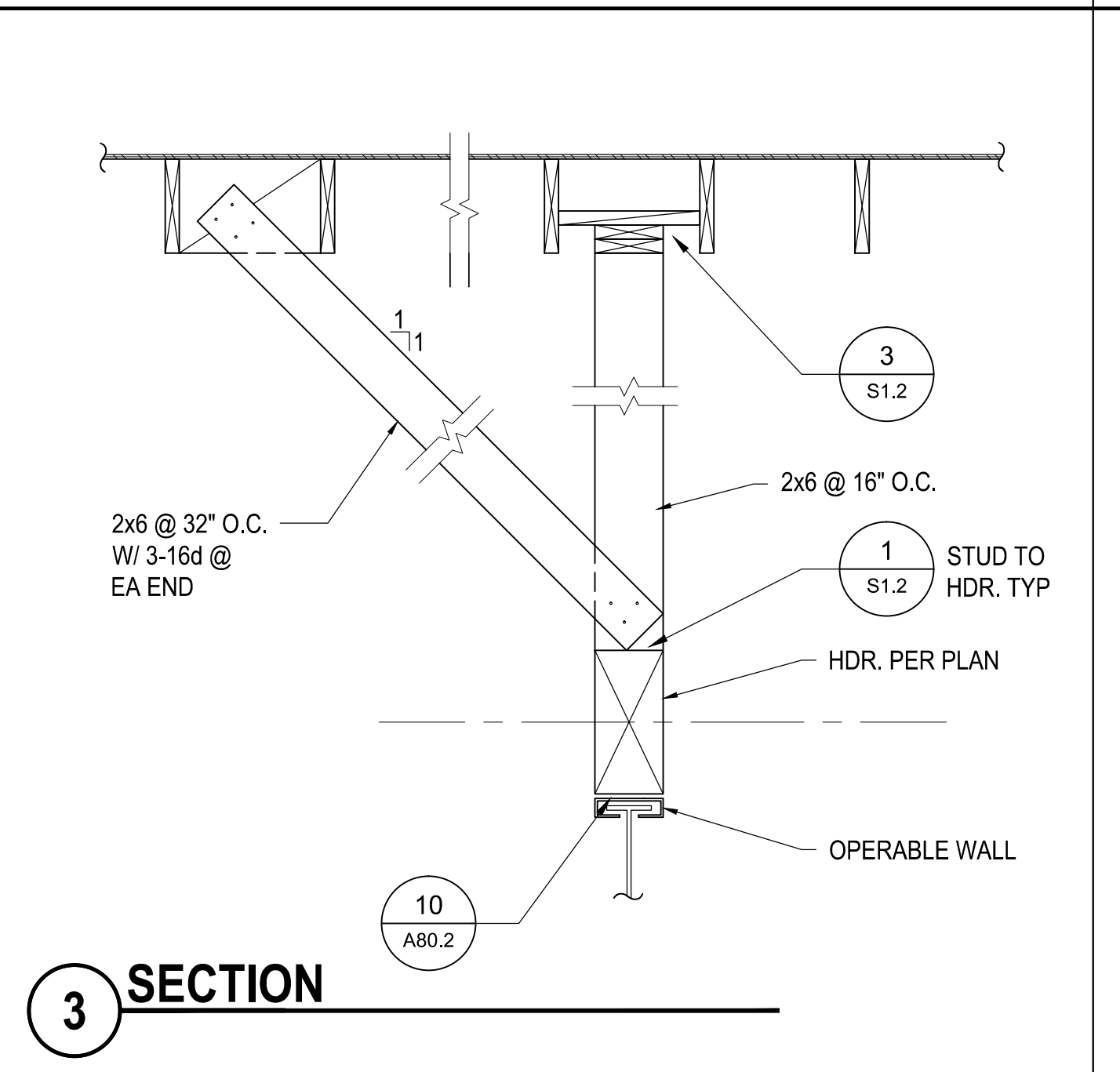
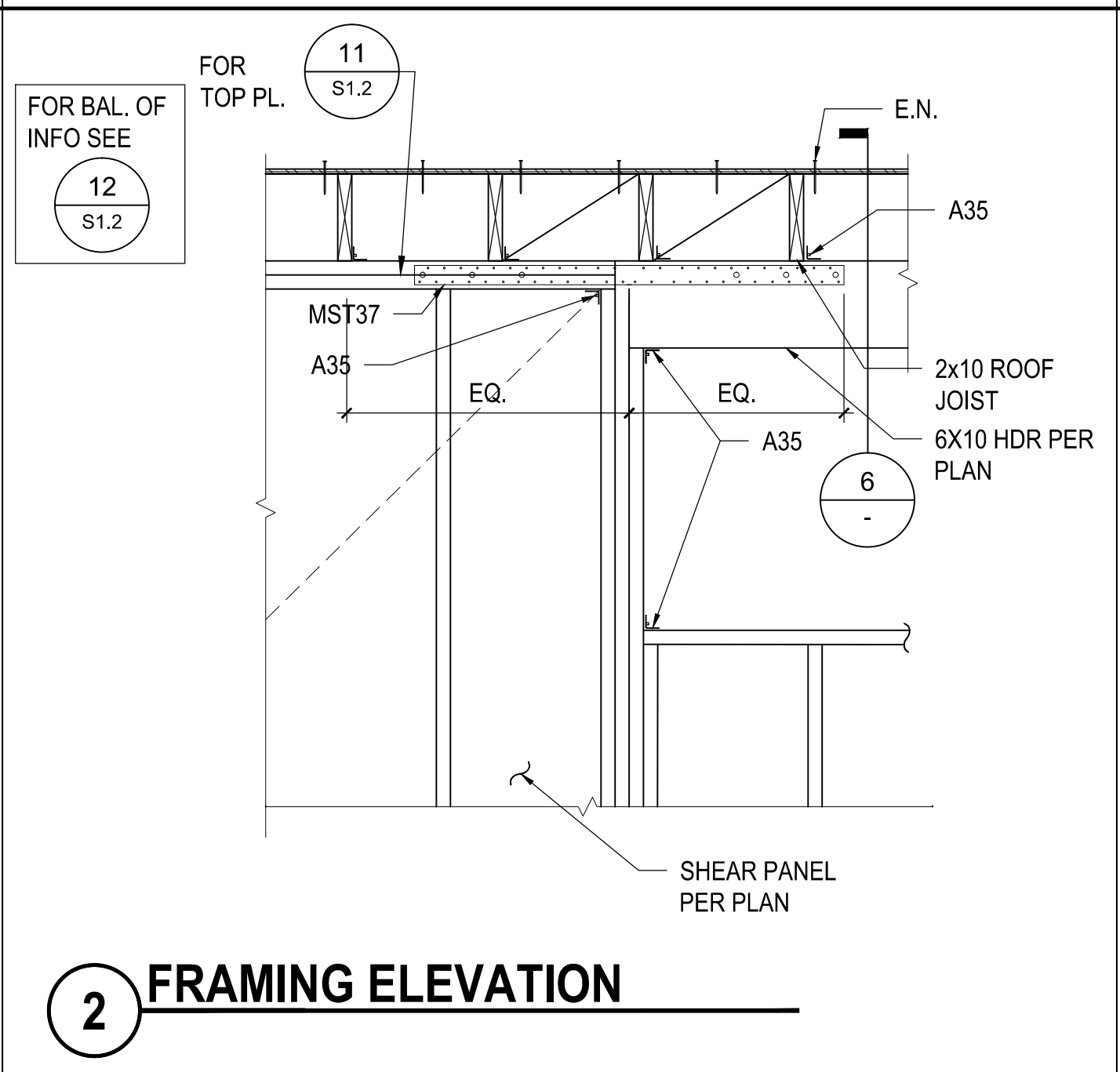
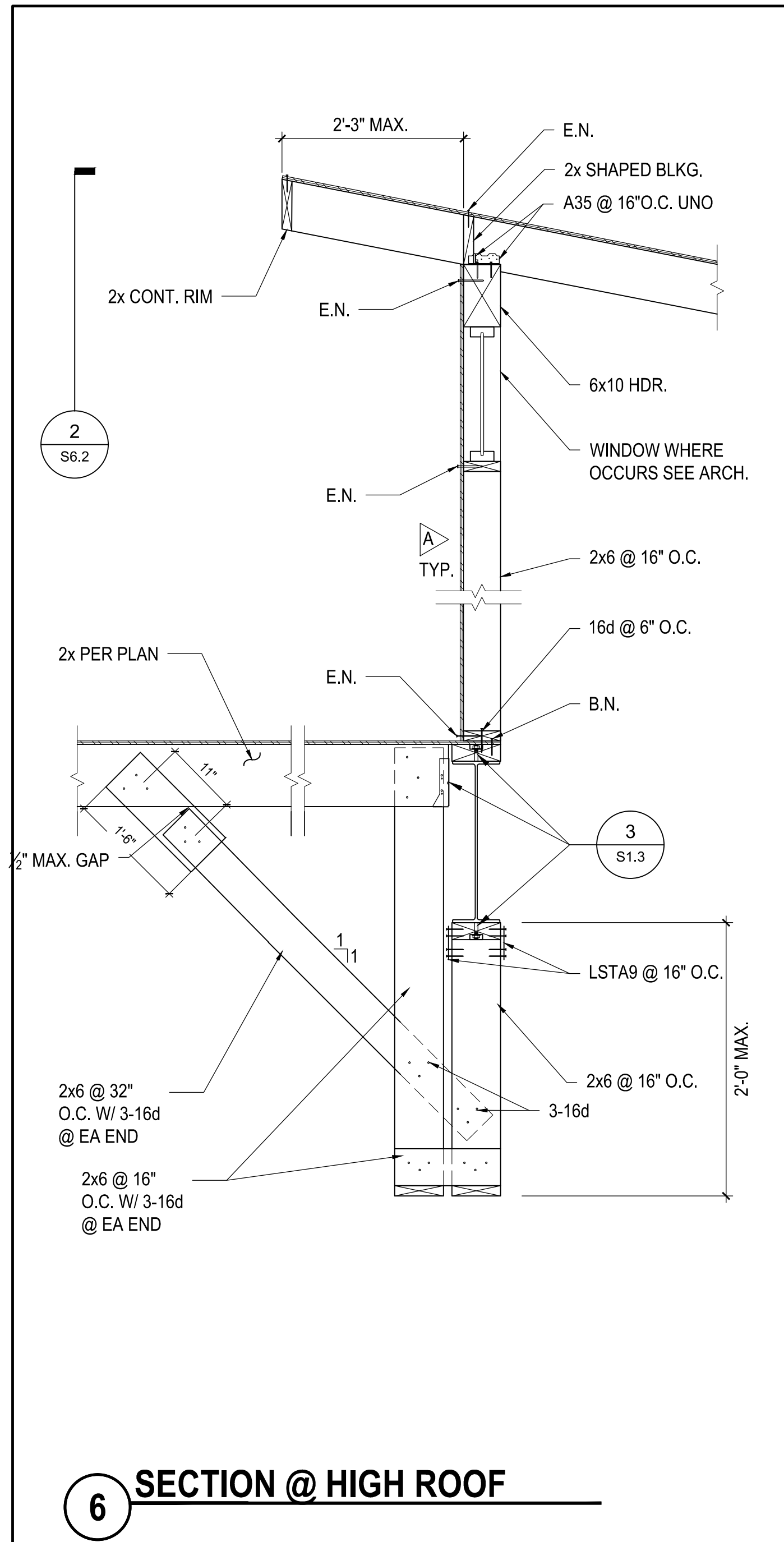
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No. 28036
Exp. 03/31/2024
STATE OF CALIFORNIA

PROSPECT AVE - PRIDE ACADEMY
LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

FRAMING DETAILS

Drawn: MR
Checked: SW
Date: JANUARY 14, 2020
Job: SSD-PA-03

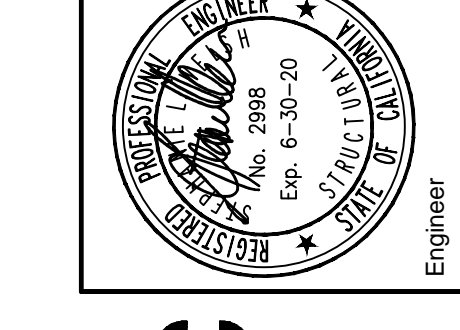
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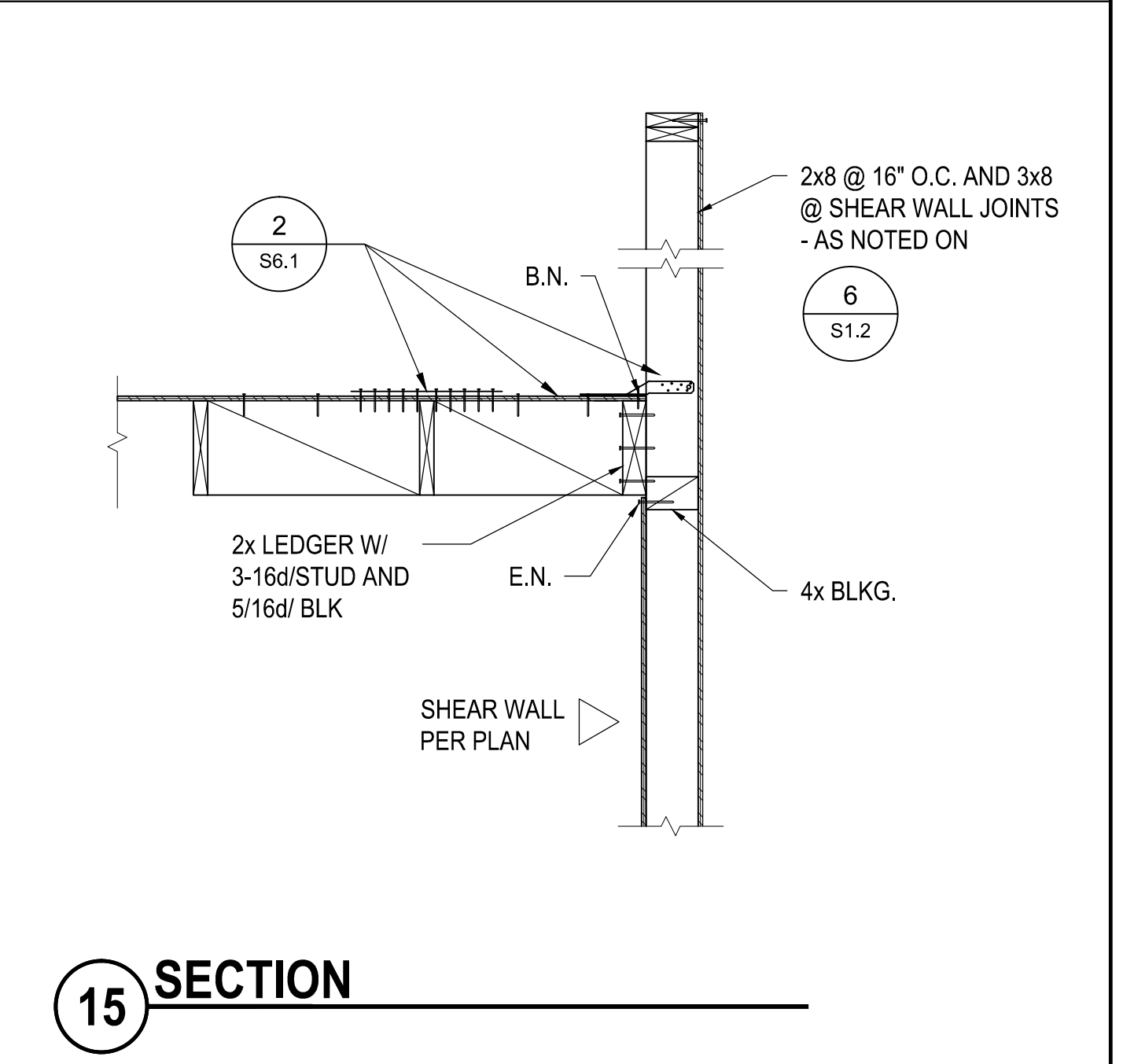
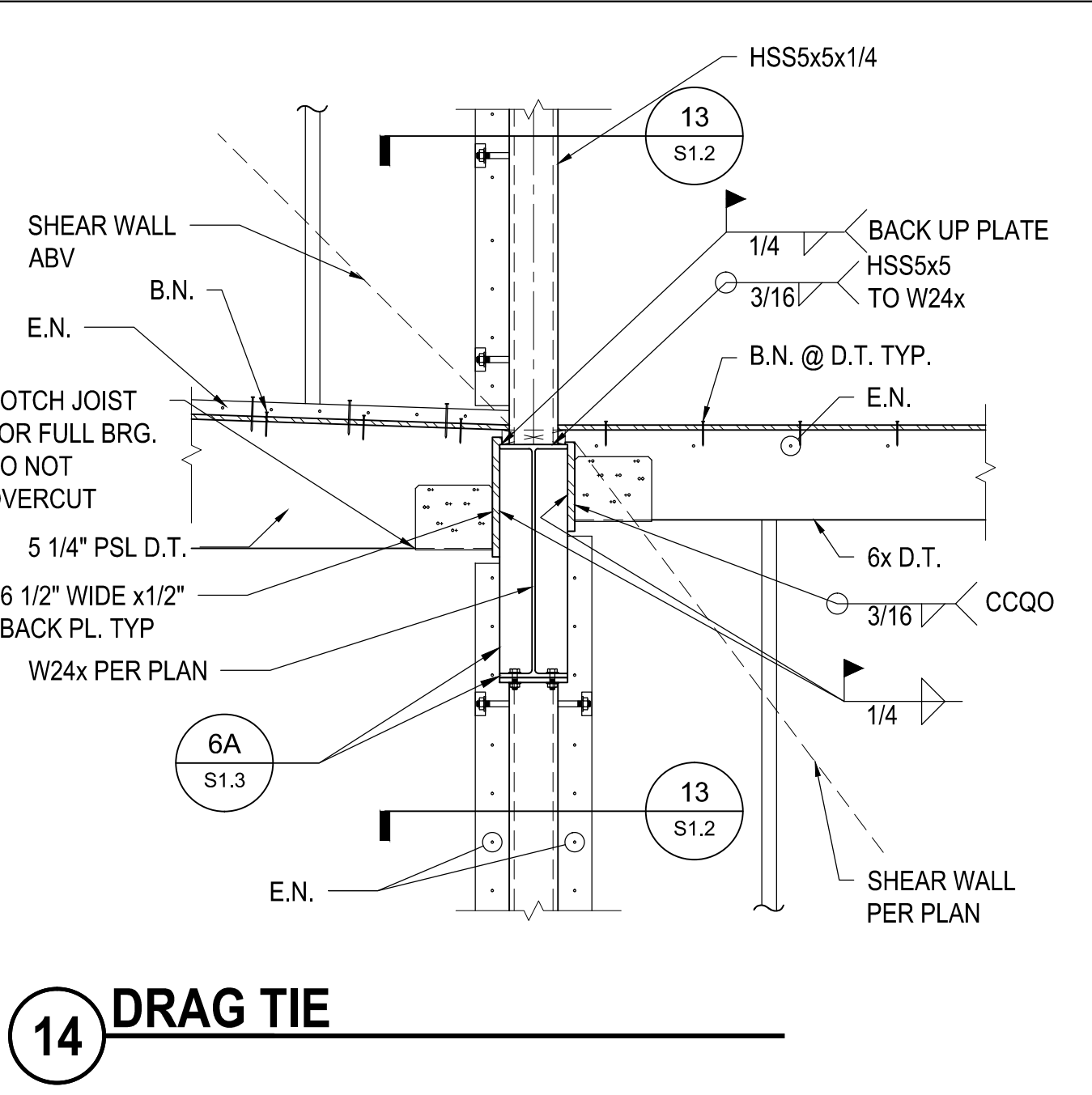
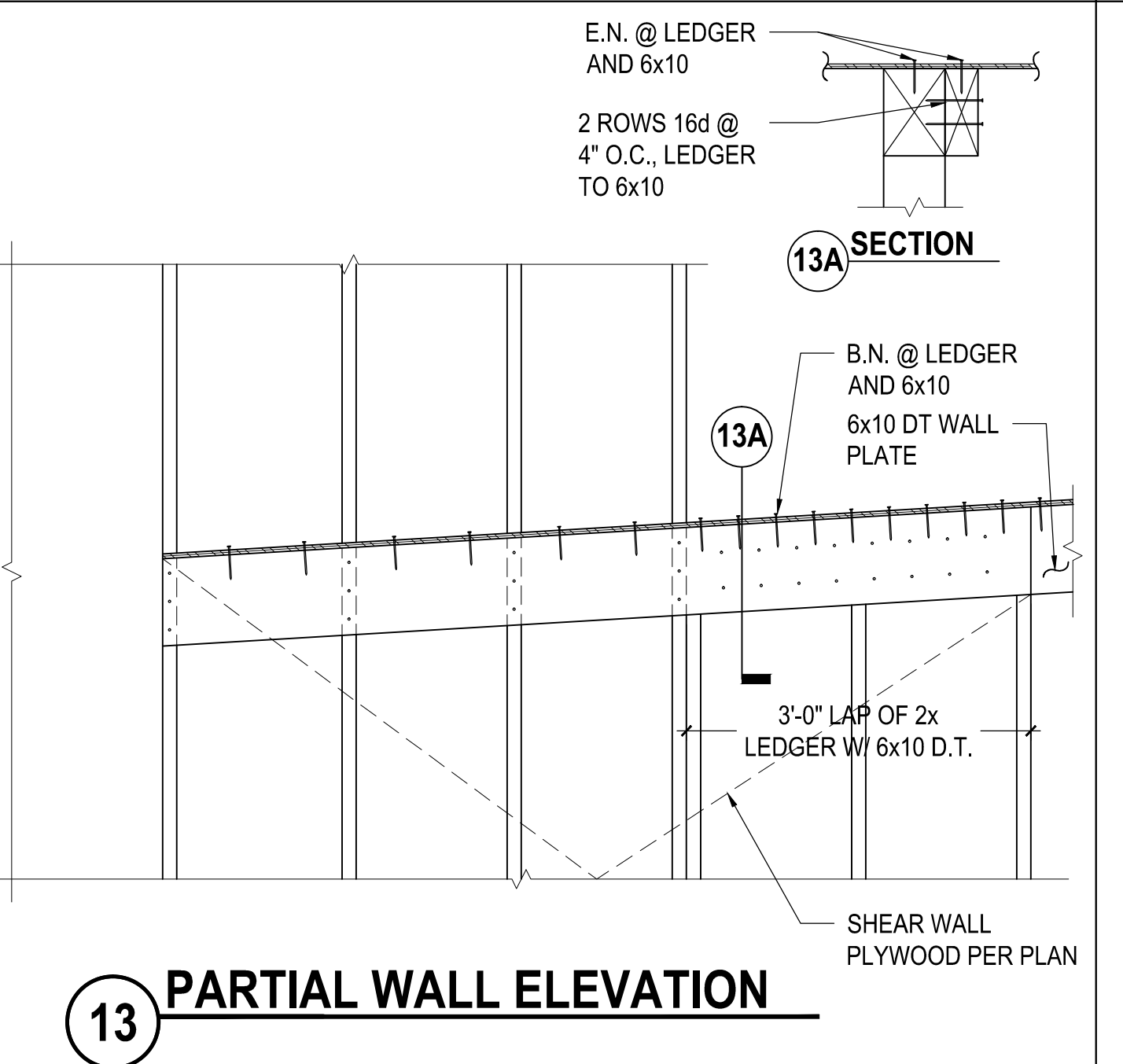
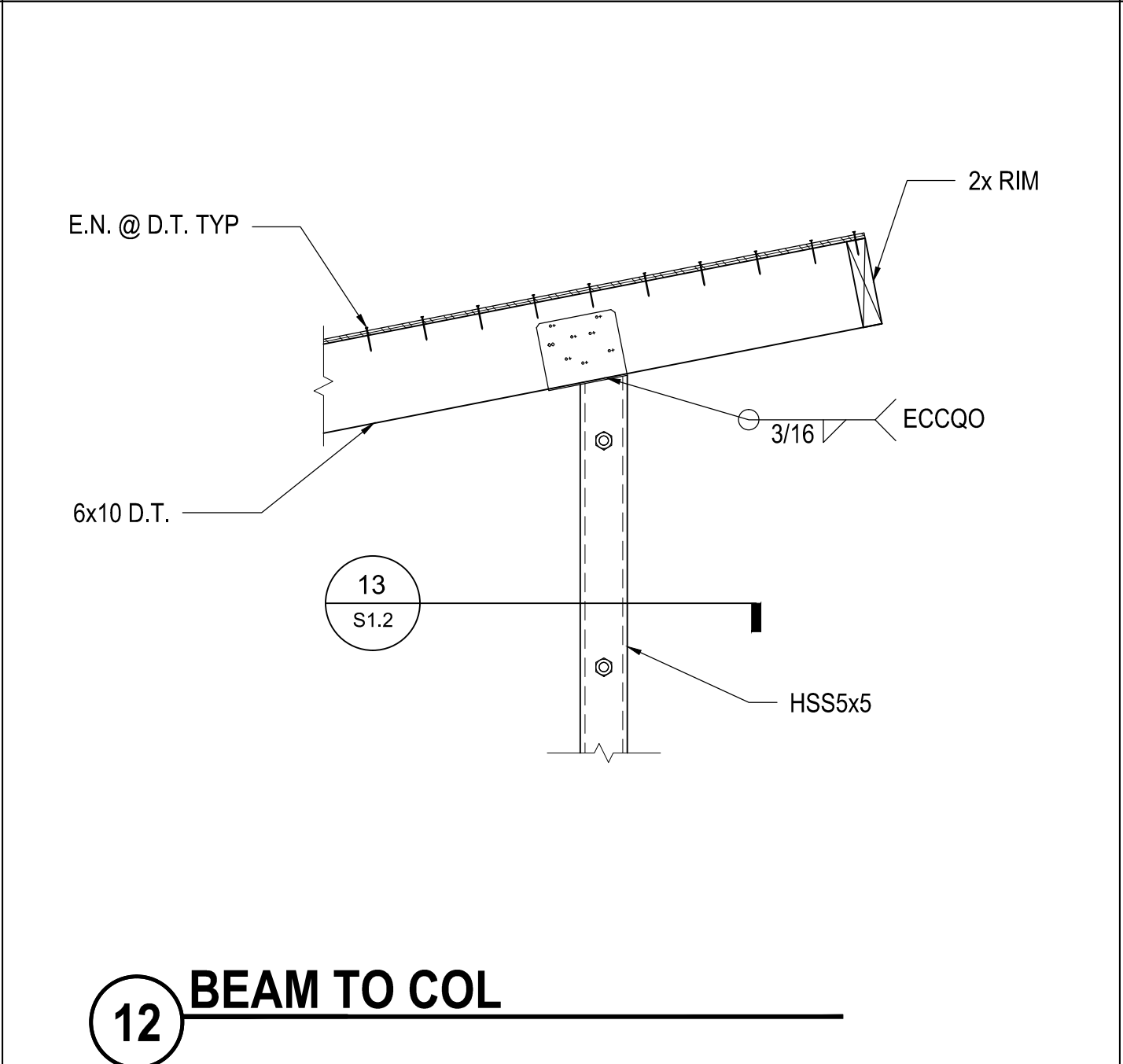
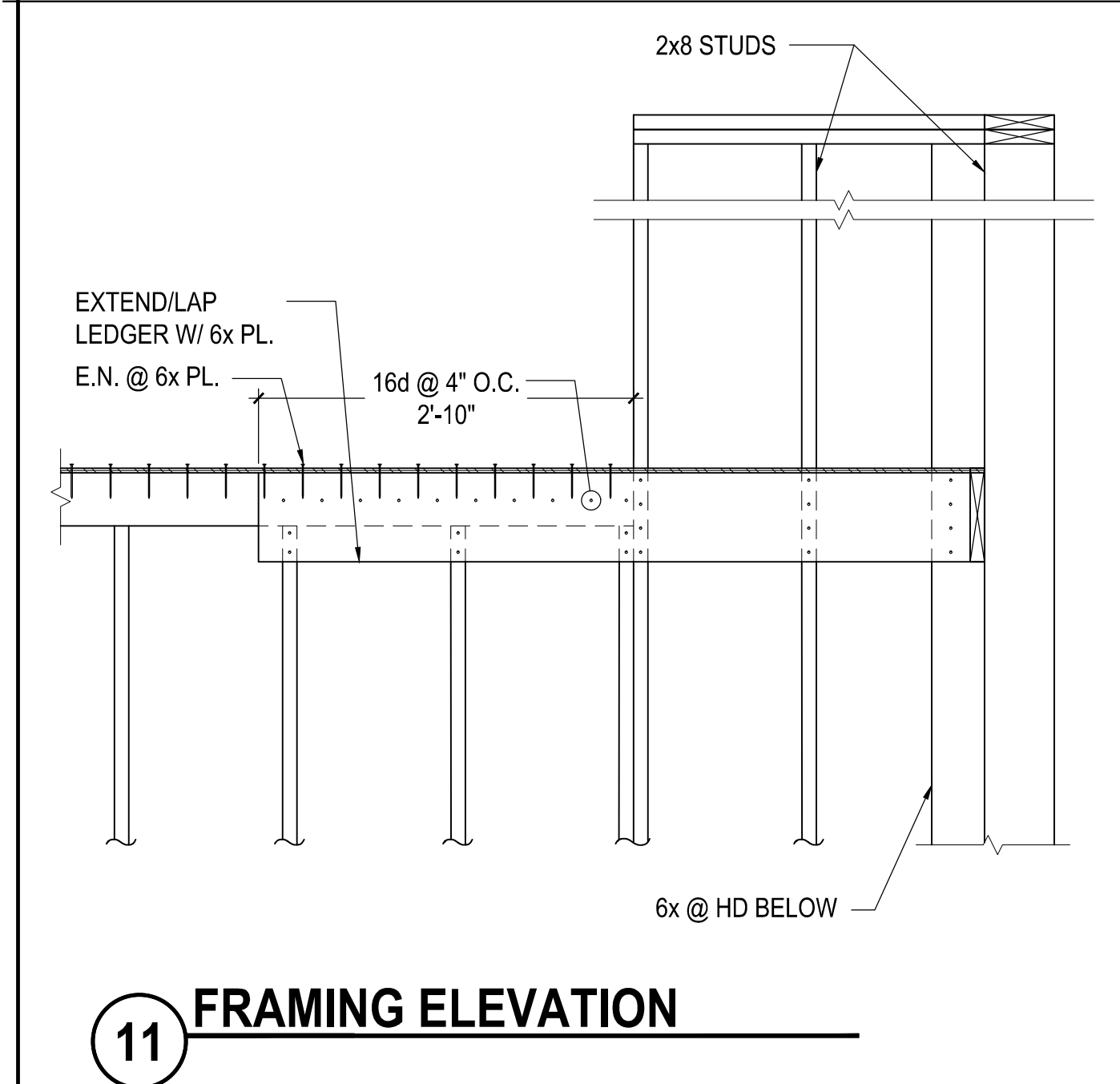
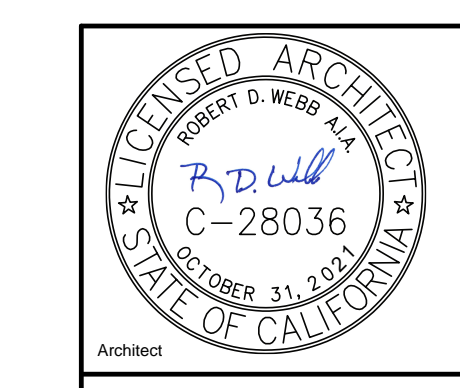
IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-118742 INC.
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 SS FLS ACS
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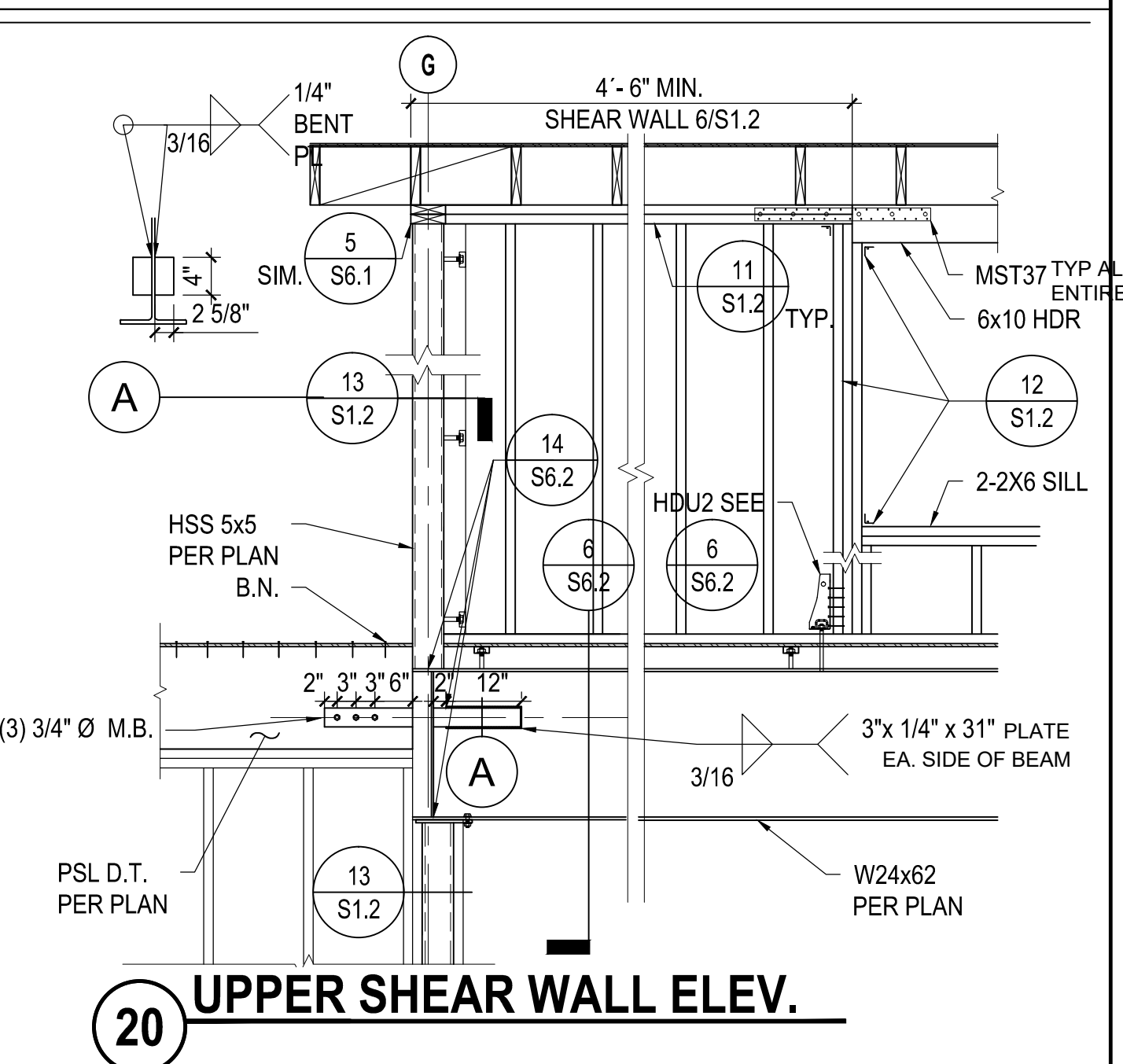
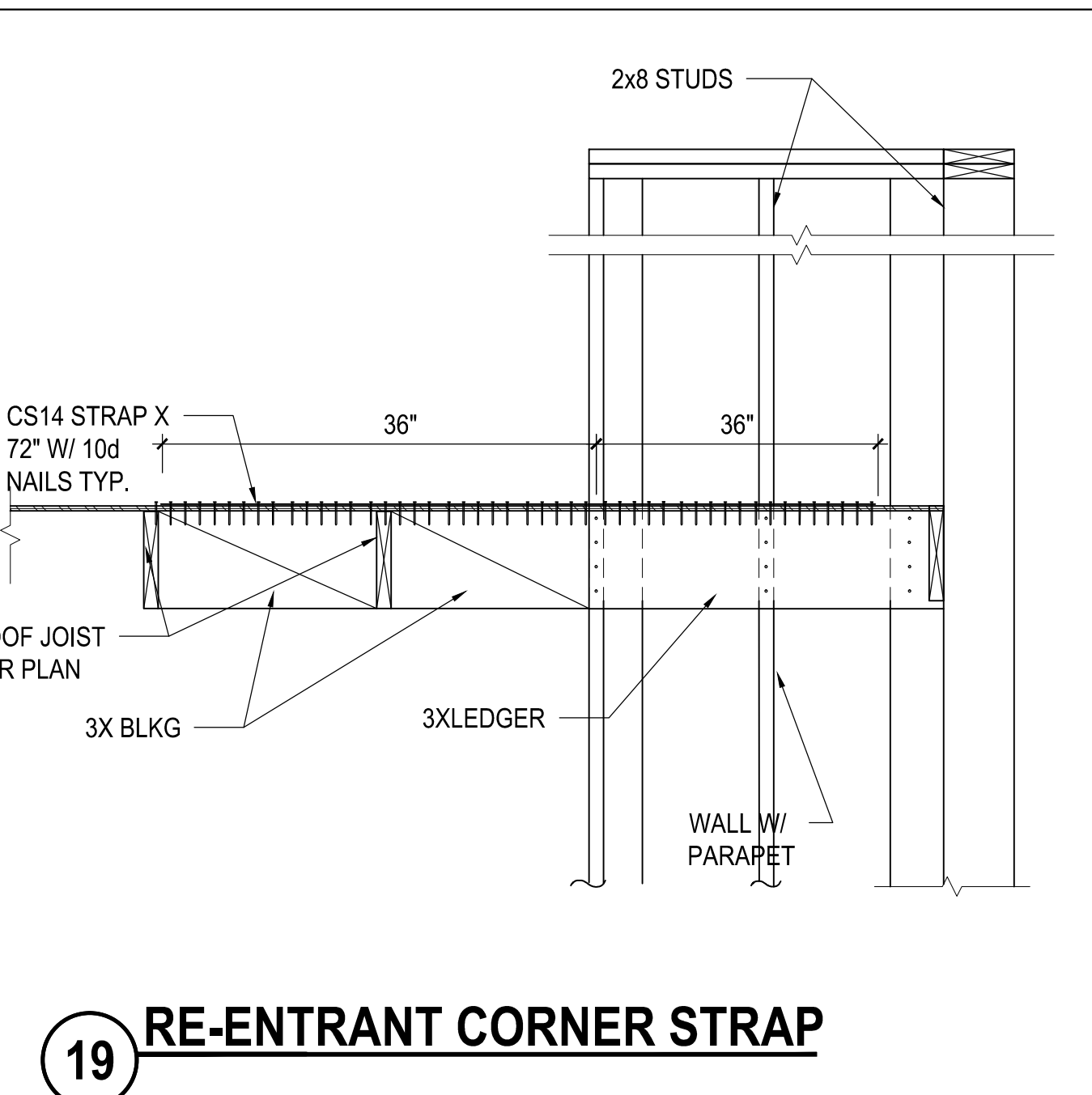
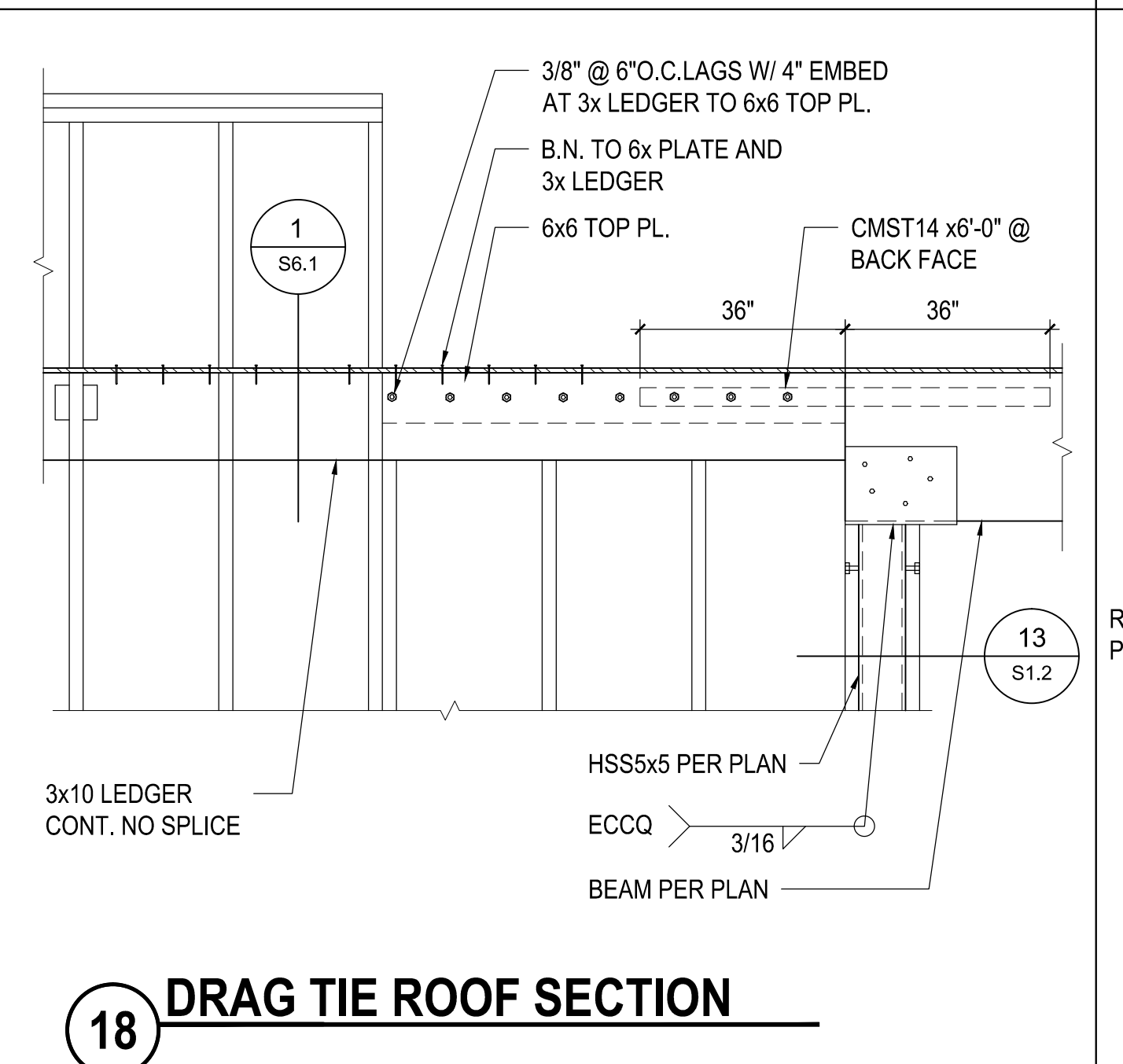
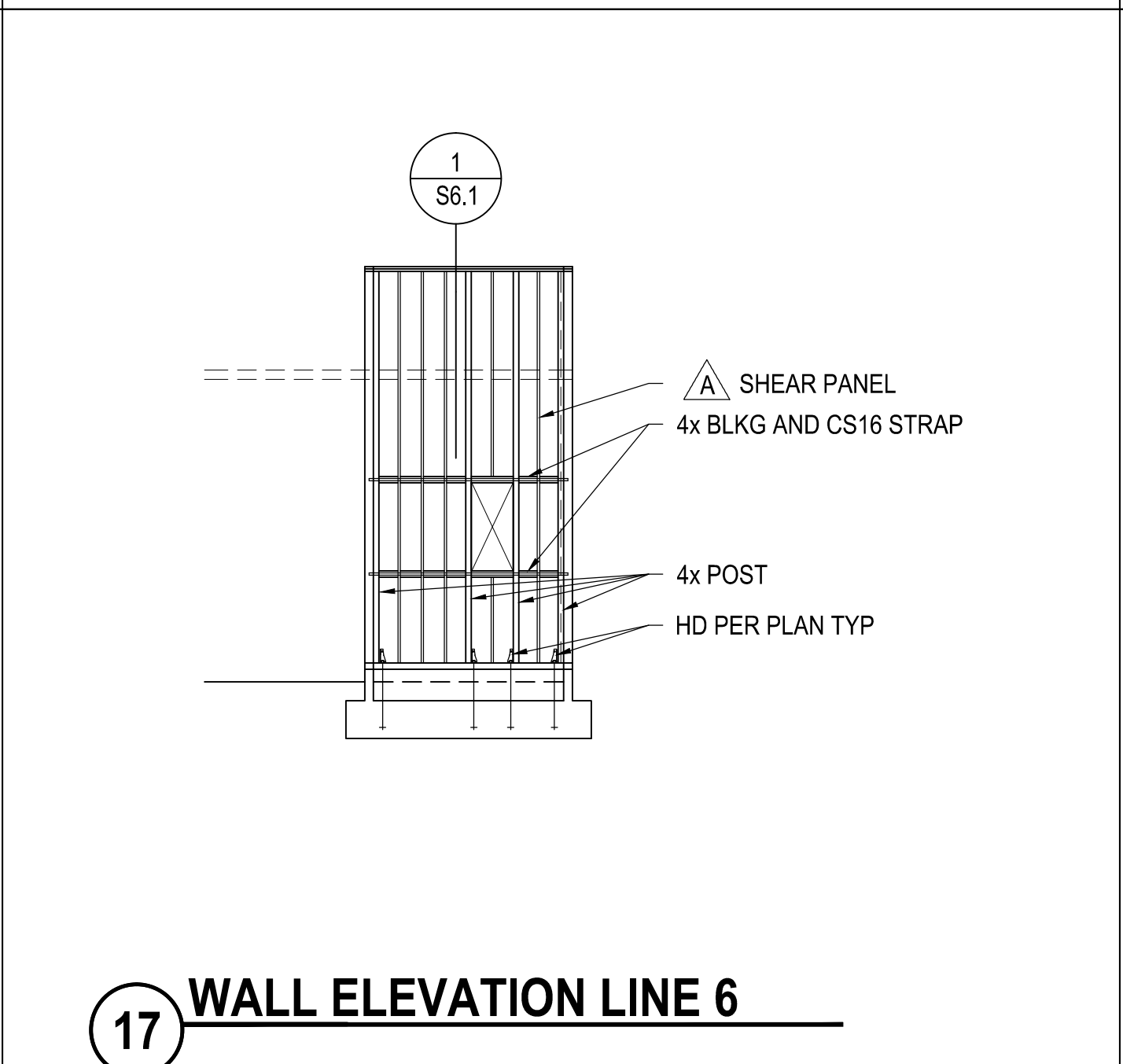
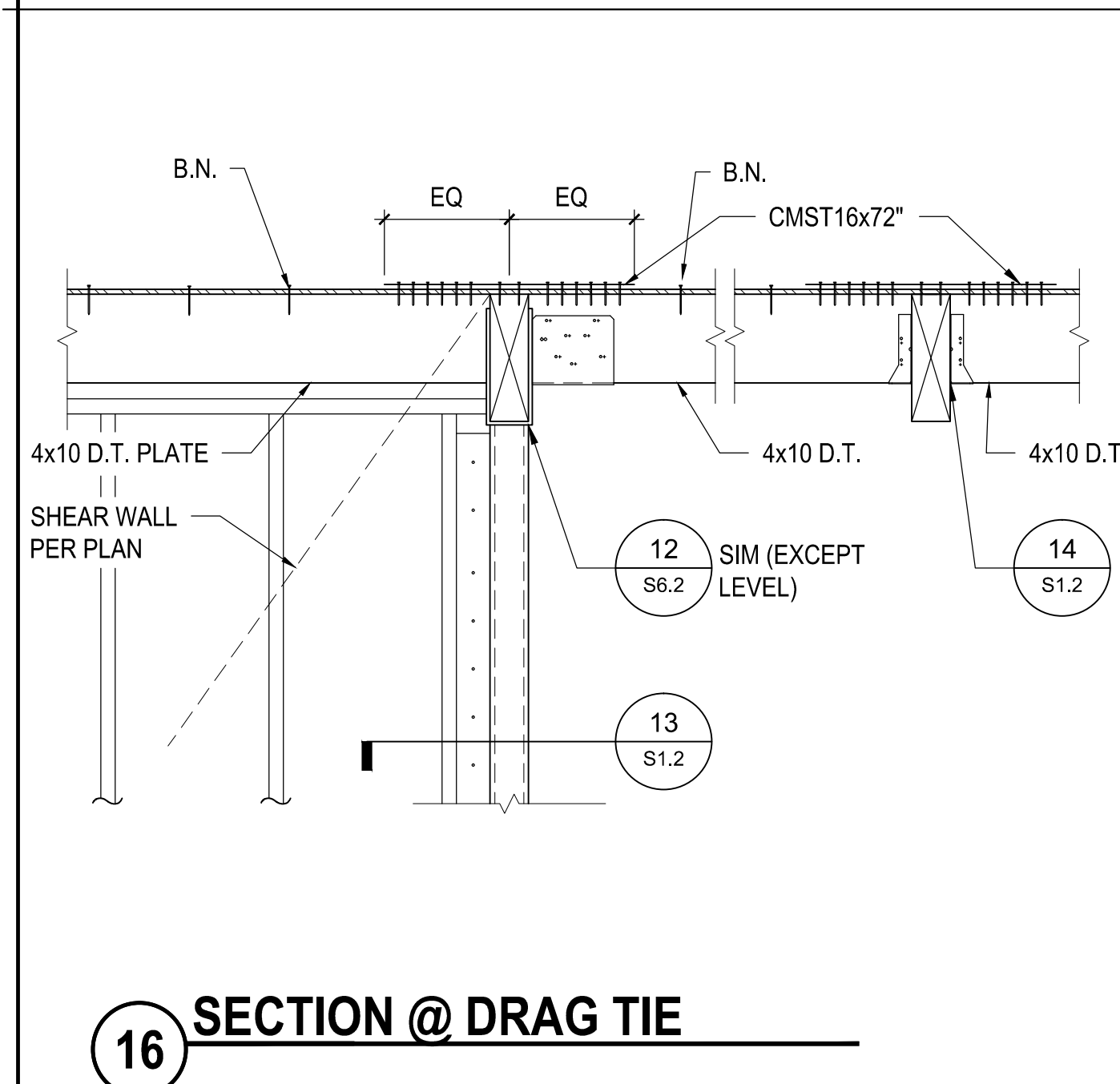
WSI
 WEST STRUCTURES, INC.
 12722 BARRETT LANE
 SANTA ANA, CA 92705
 PH: 714-357-6297
 FAX: 714-357-0511
 Consultant



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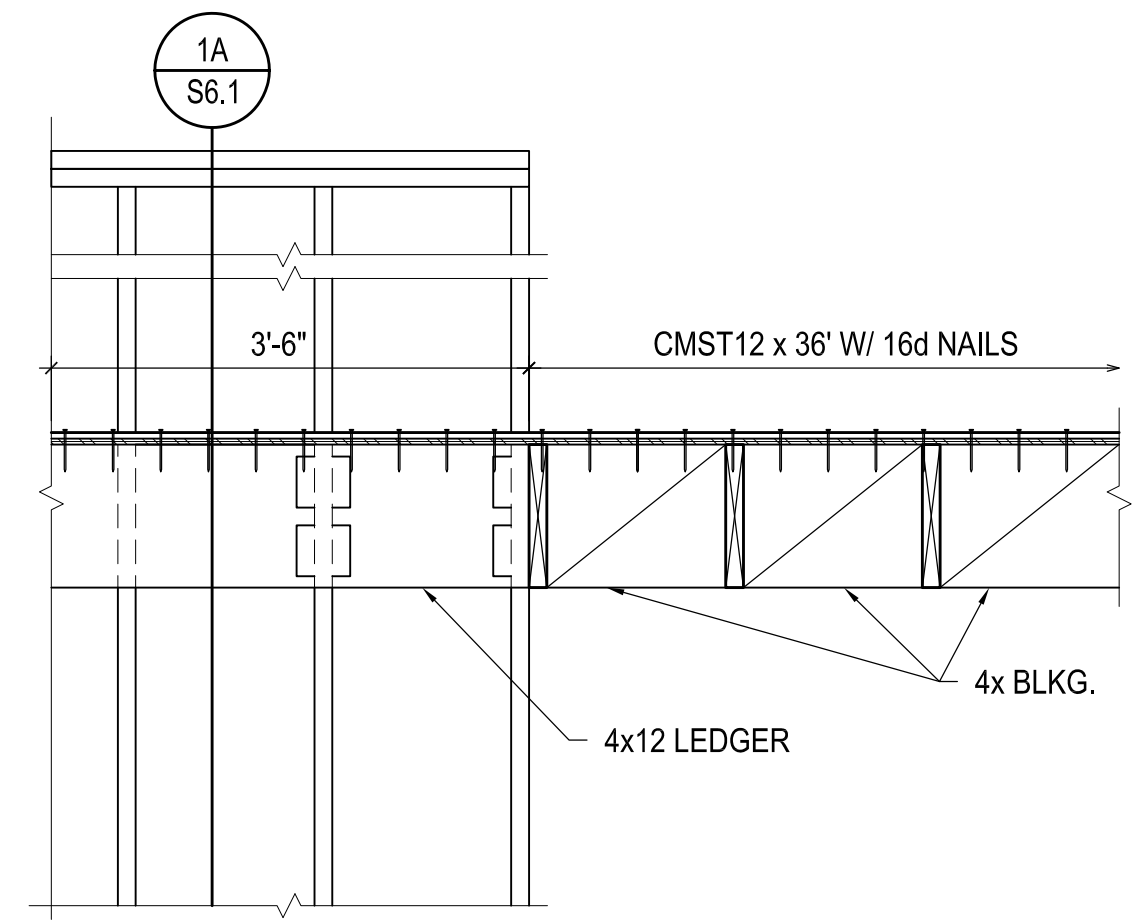
PROSPECT AVE - PRIDE ACADEMY
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT



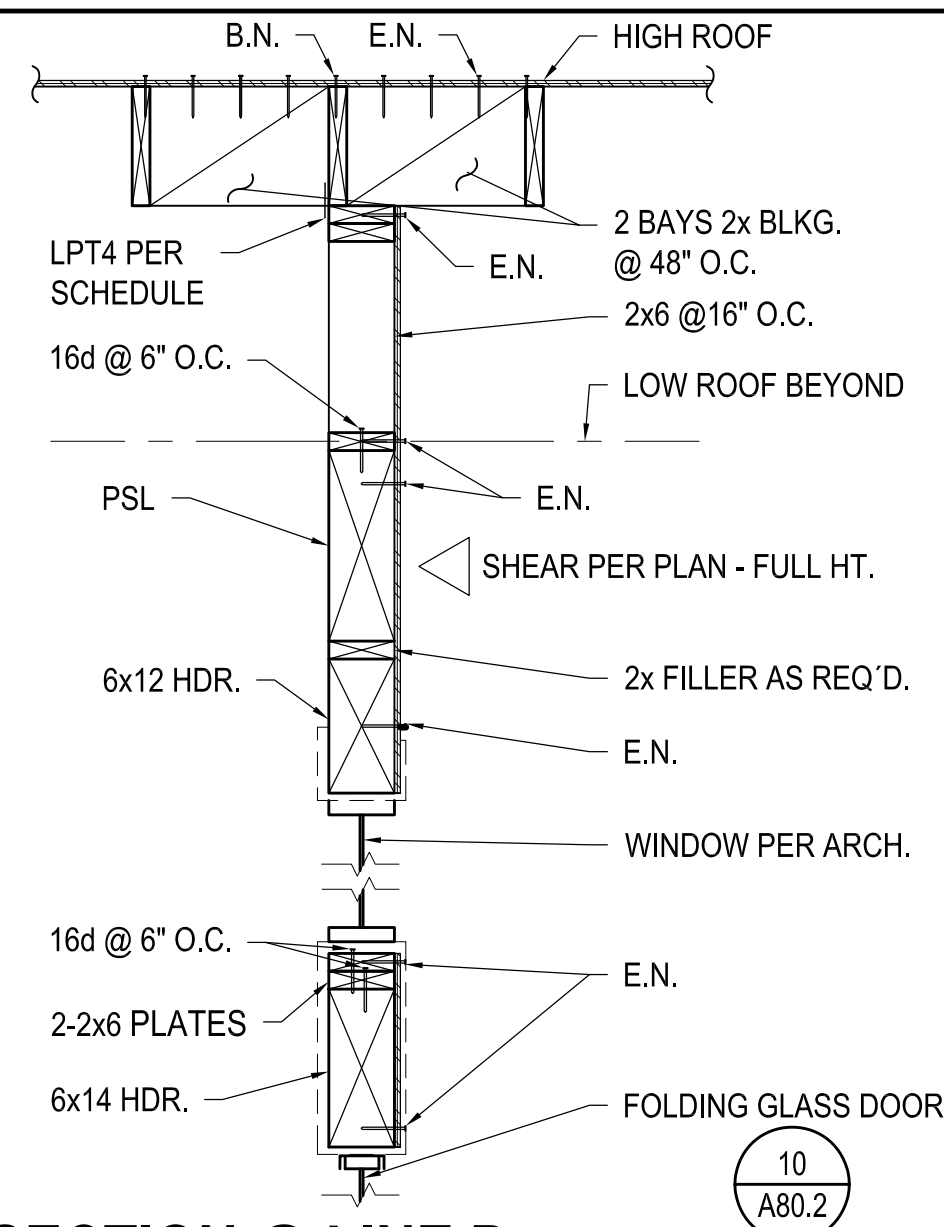
FRAMING DETAILS

Drawn: MR
 Checked: SW
 Date: JANUARY 14, 2020
 Job: SSD-PA-03

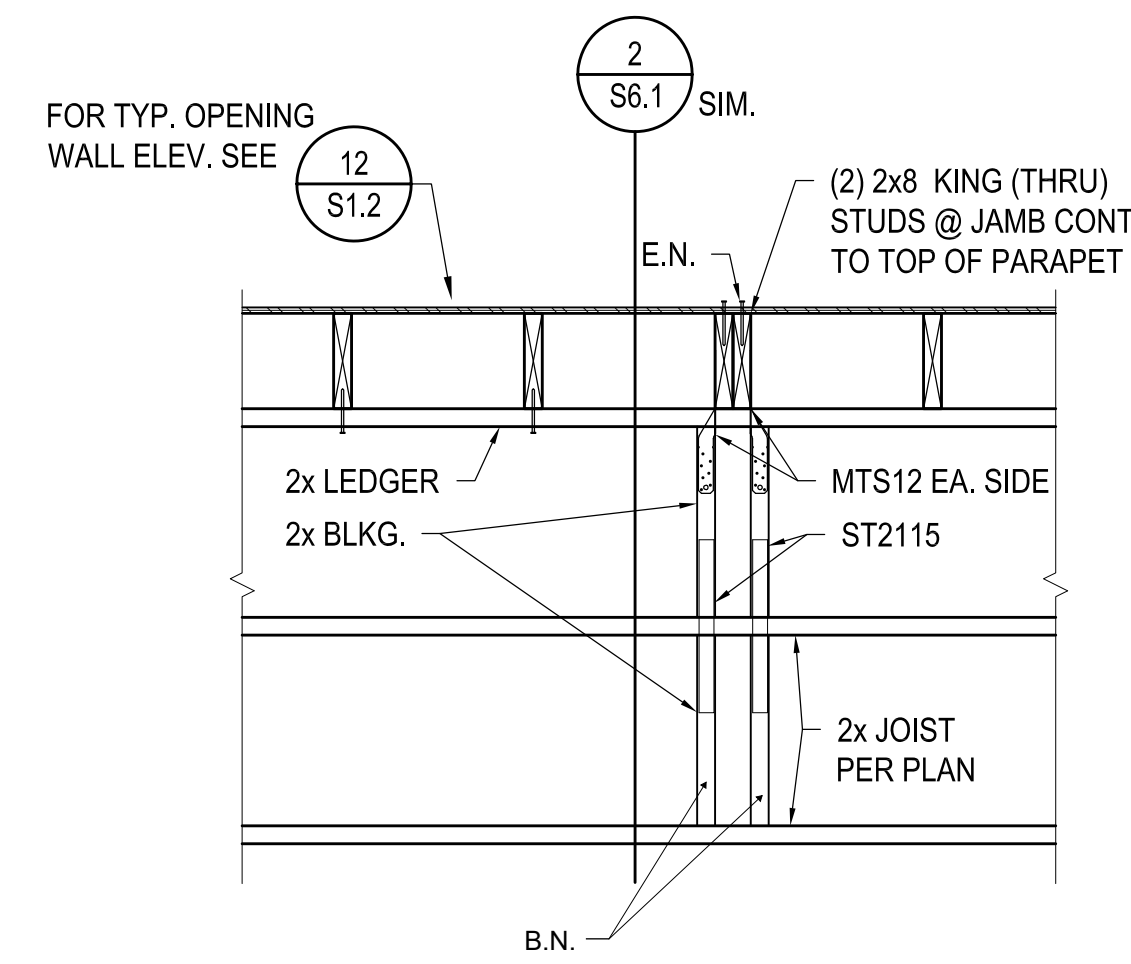
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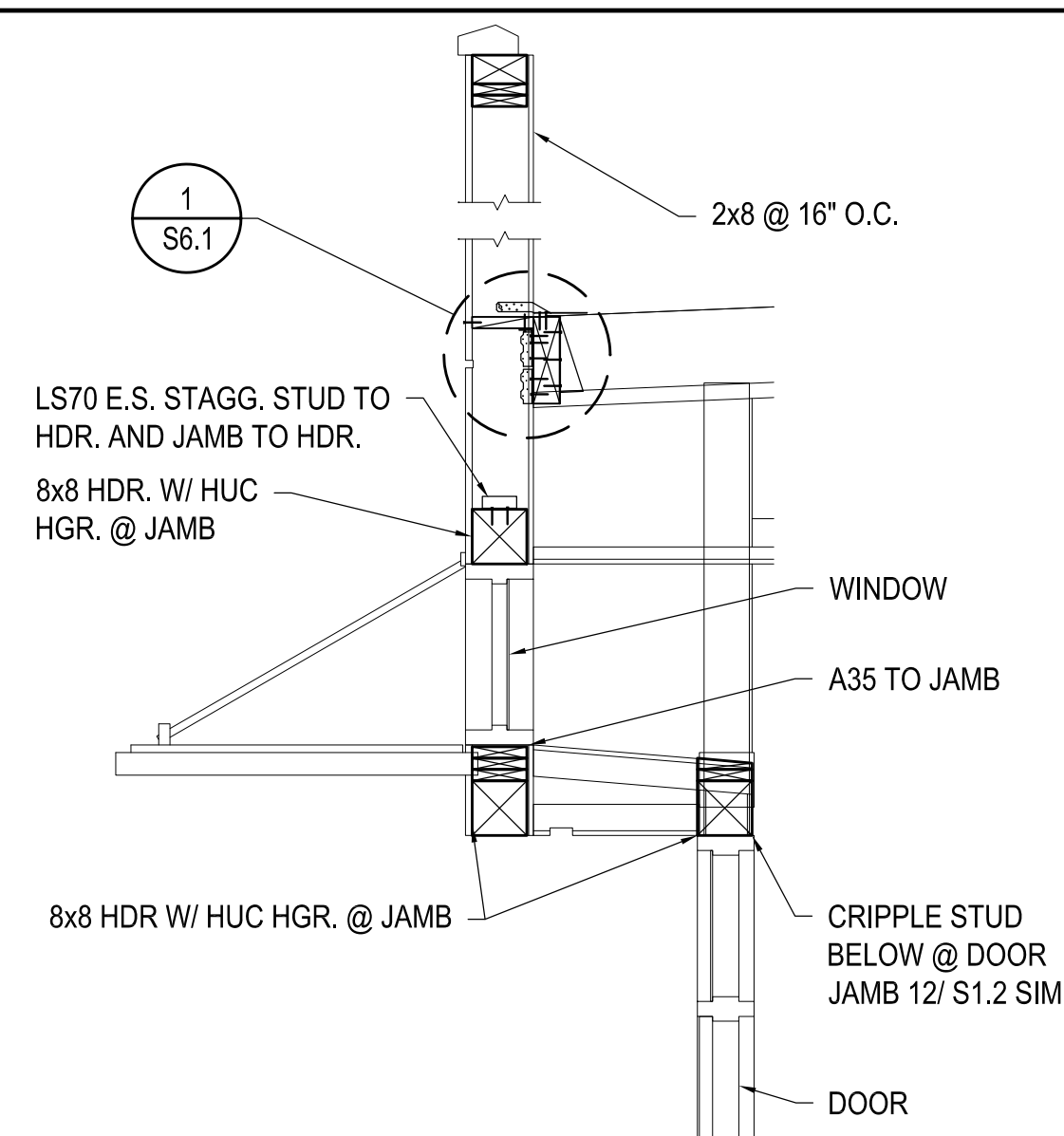
1 CMST 12 STRAP @ ROOF



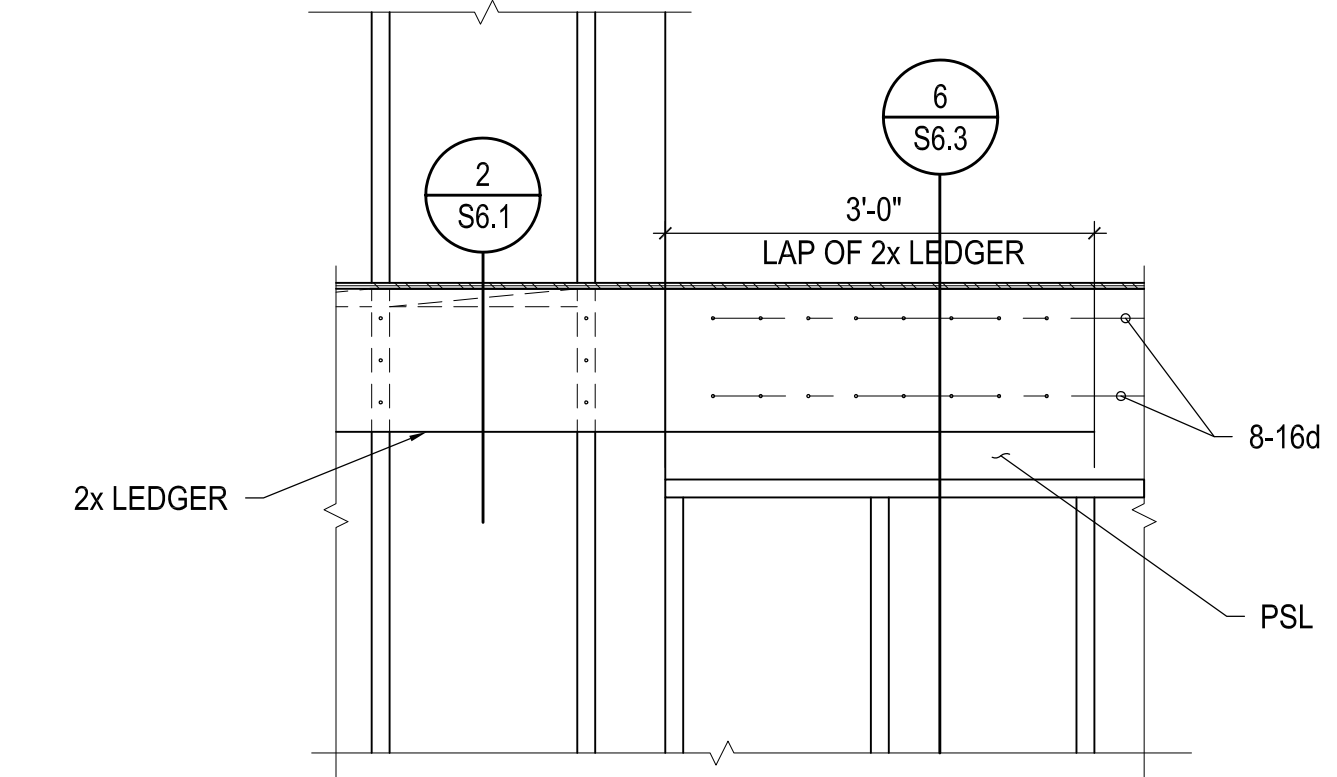
2 WALL SECTION @ LINE D



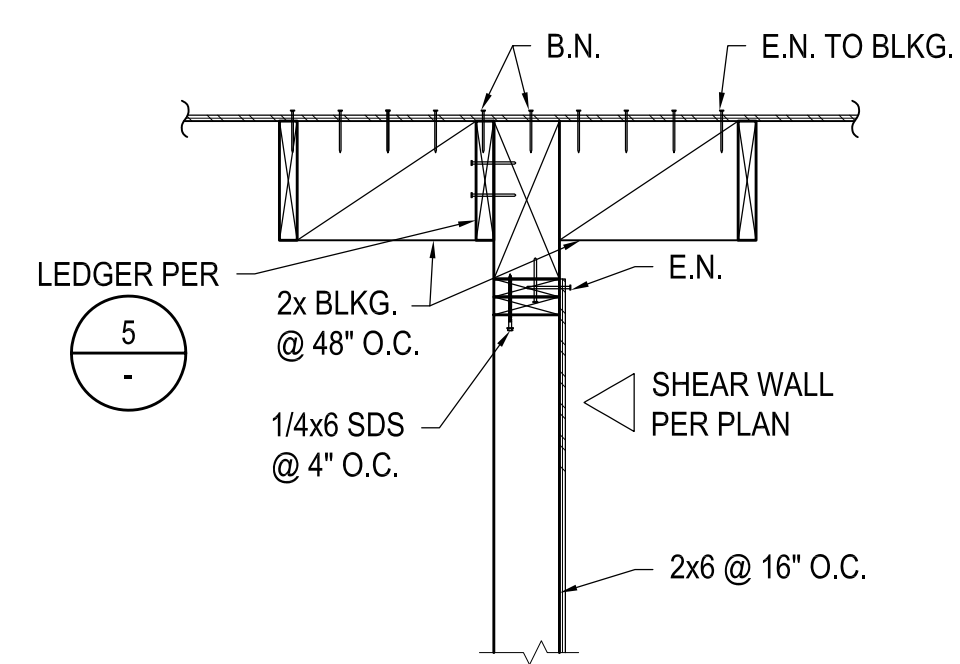
3 PLAN VIEW - JAMB STUD @ ROOF



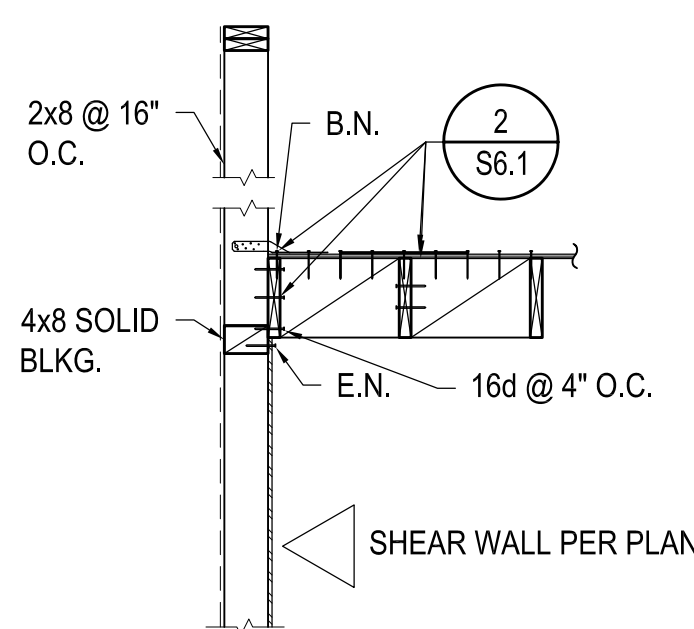
4 WALL SECTION NEAR GRID 1 AND E



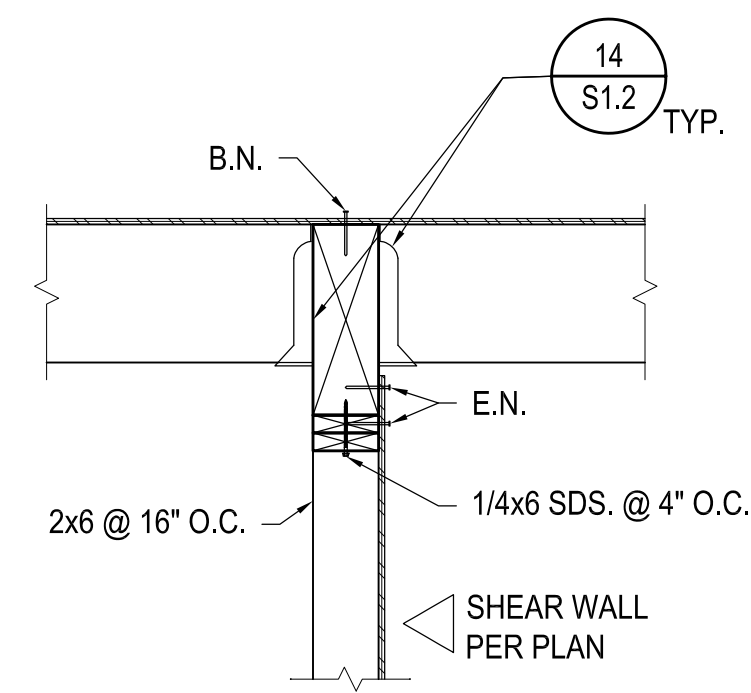
5 DRAG @ LINE B



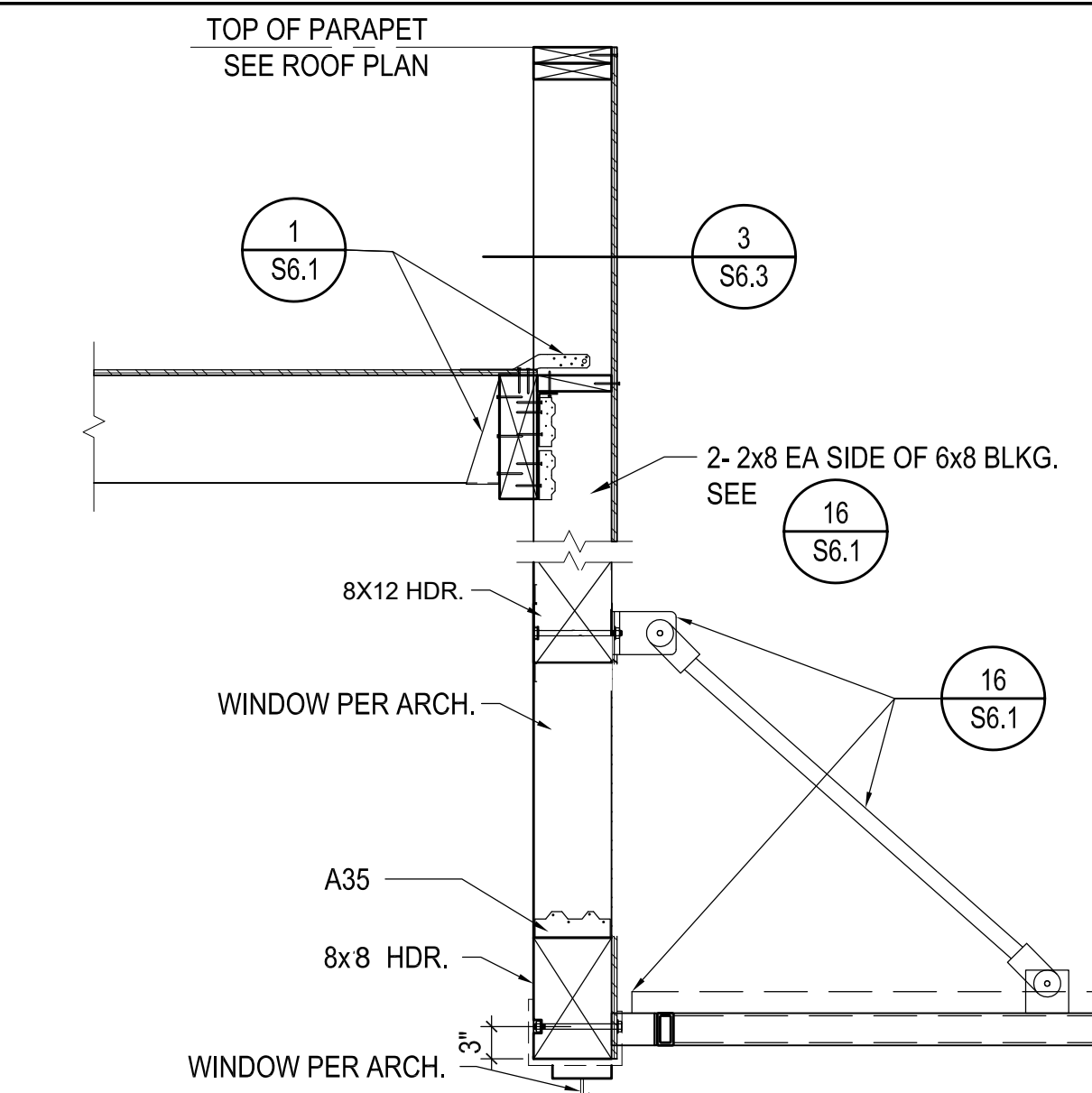
6 WALL SECTION



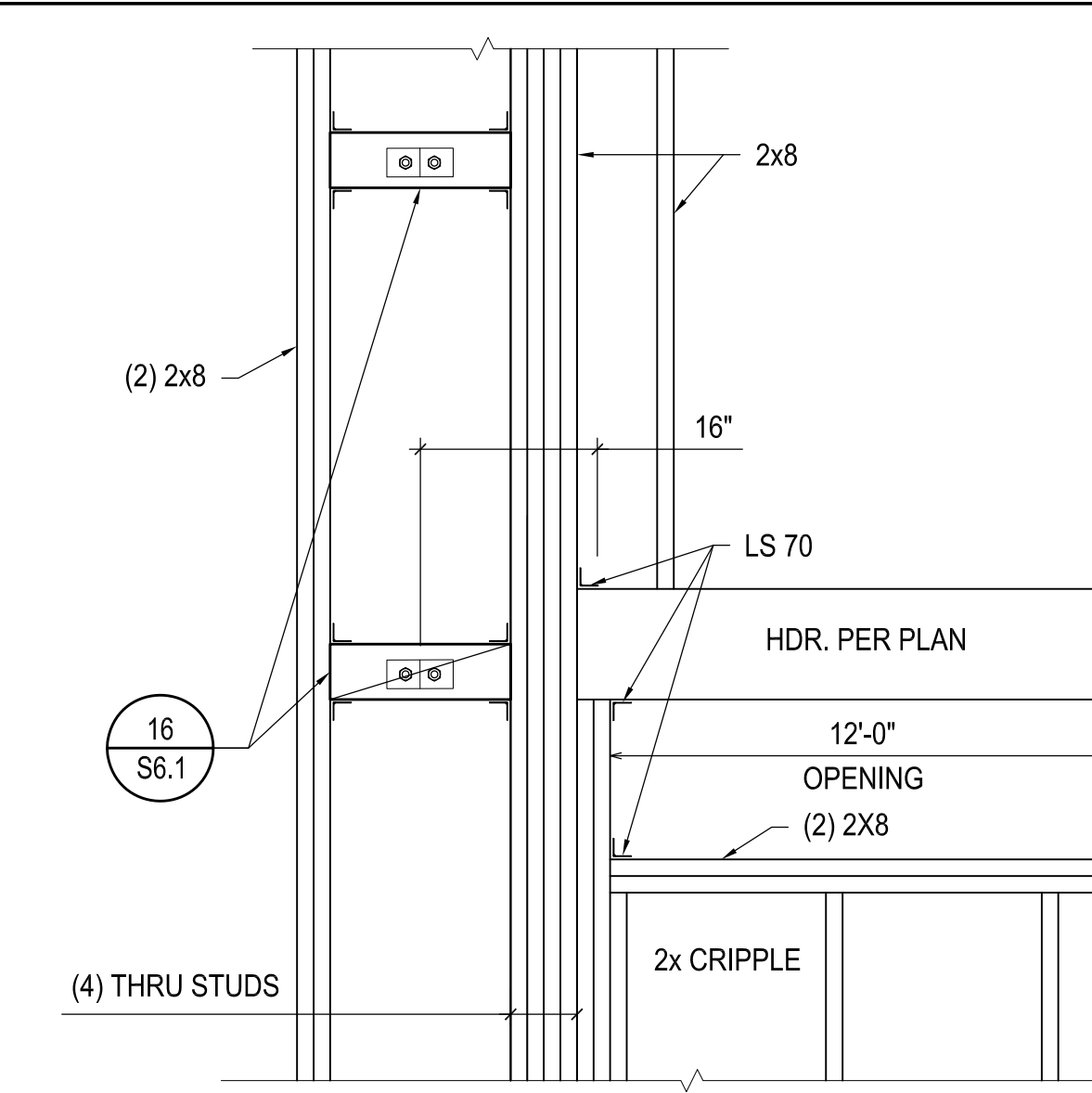
7 WALL SECTION



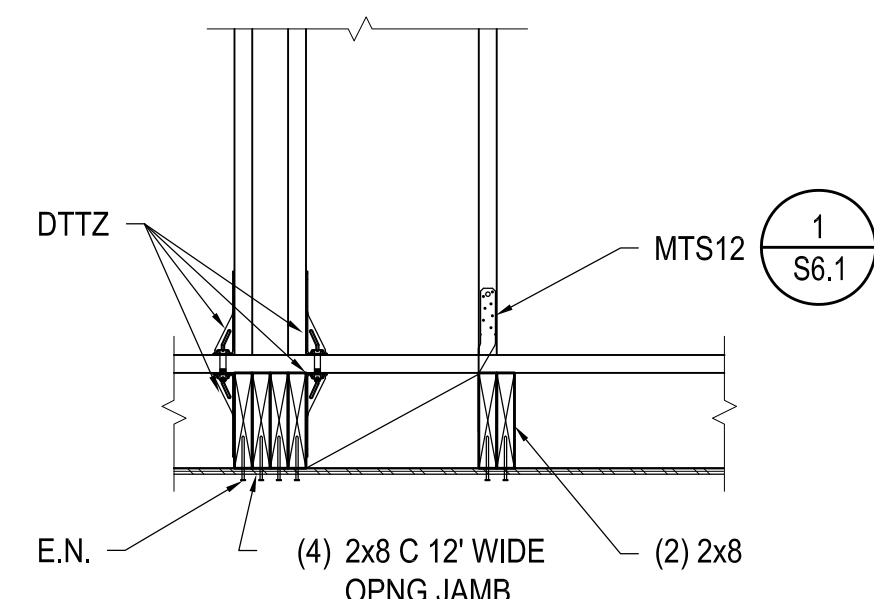
8 WALL SECTION



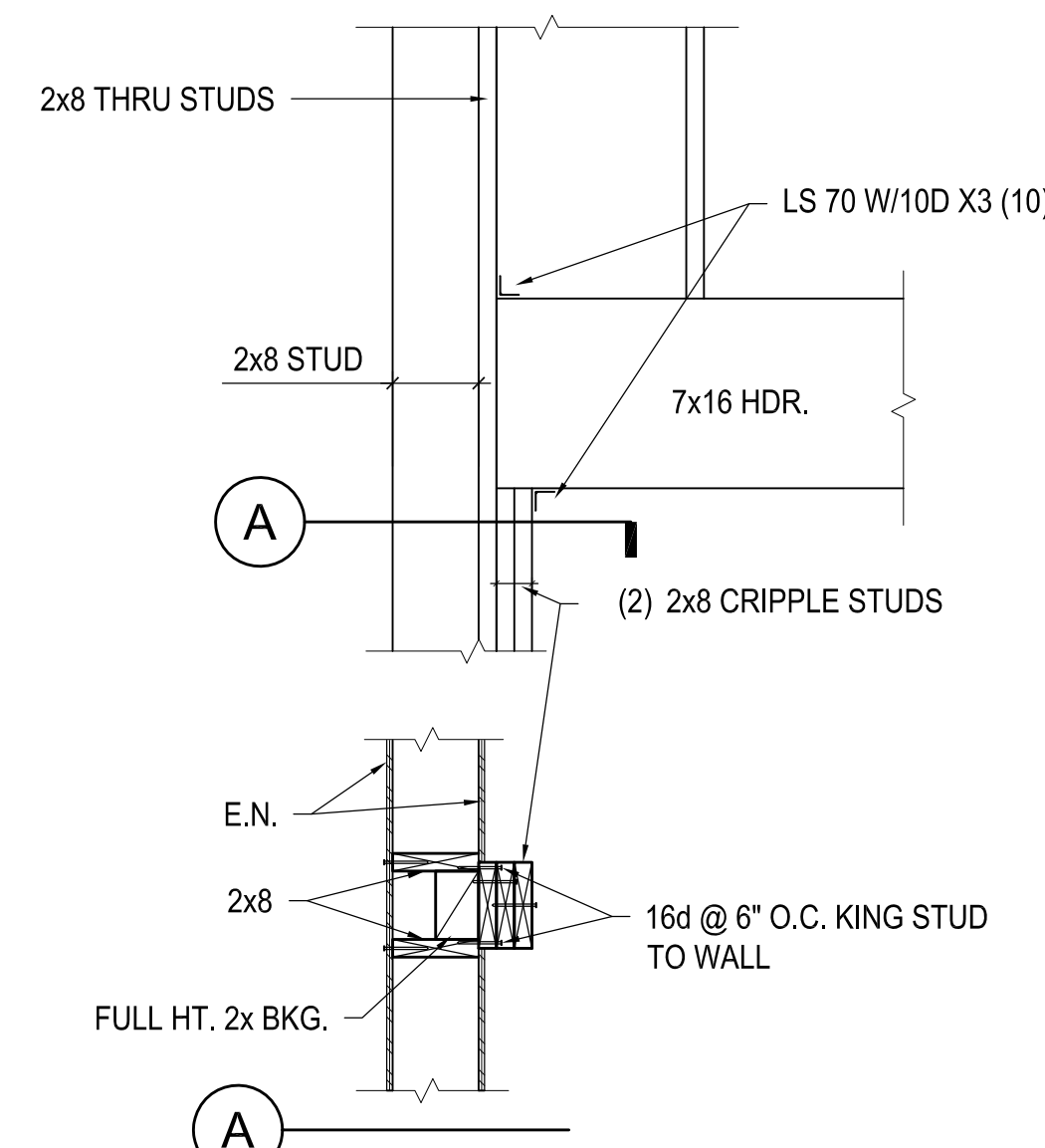
9 WALL SECTION @ LINE 7



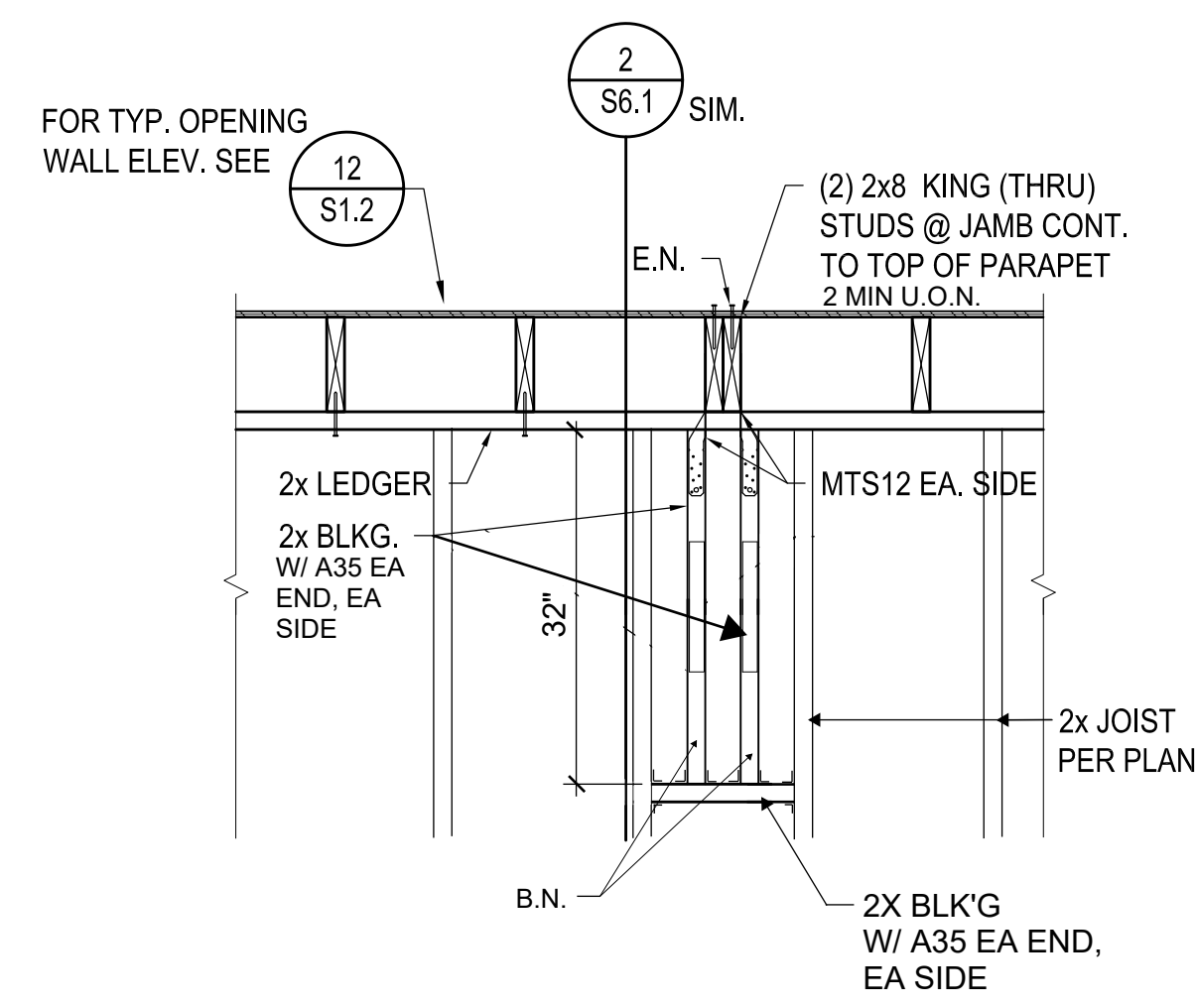
10 12" WIDE EXT. OPENING



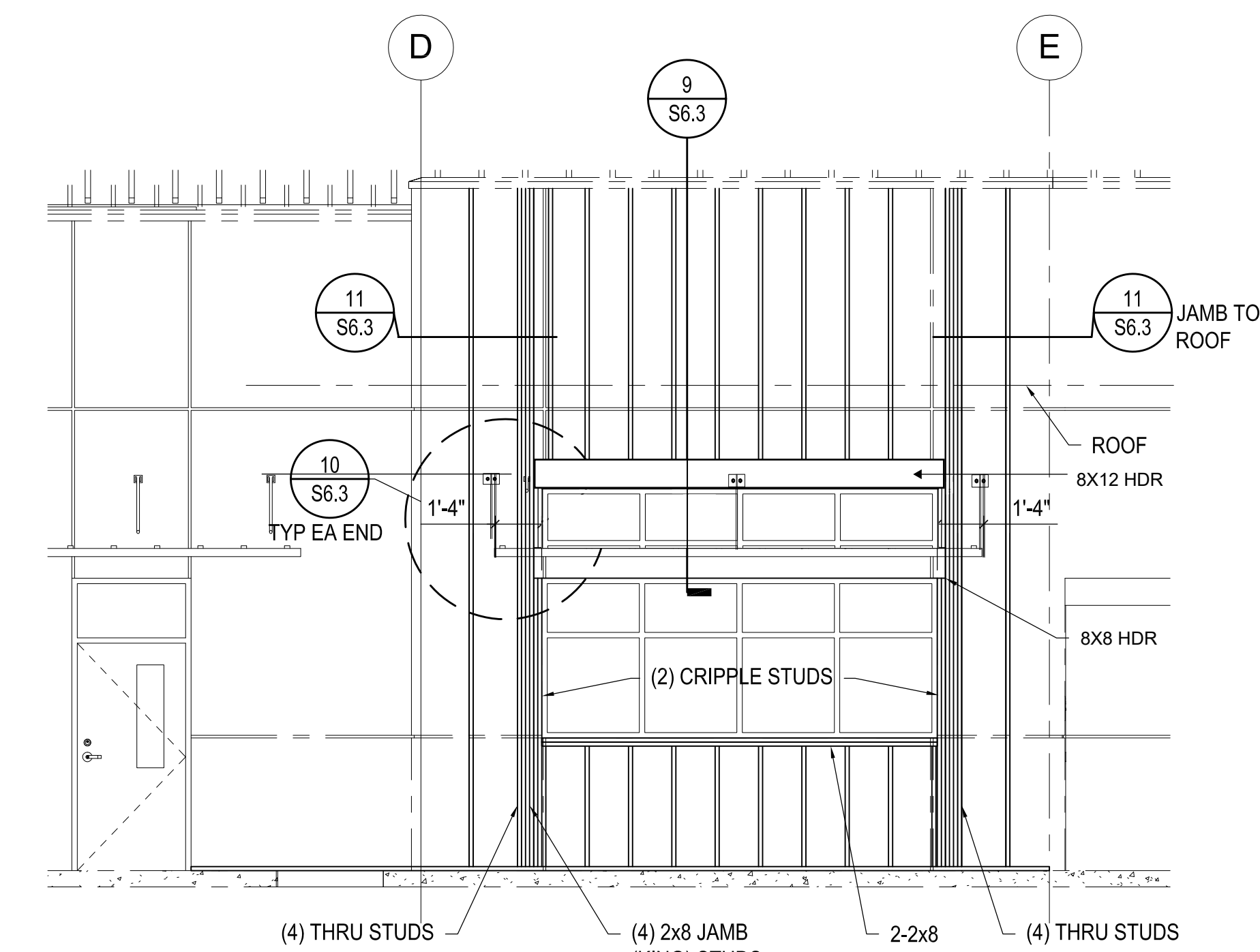
11 PLAN VIEW - JAMB CONN. @ ROOF LINE 7



12 LINE G.7 HDR JAMB



13 PLAN VIEW - JAMB STUD @ ROOF

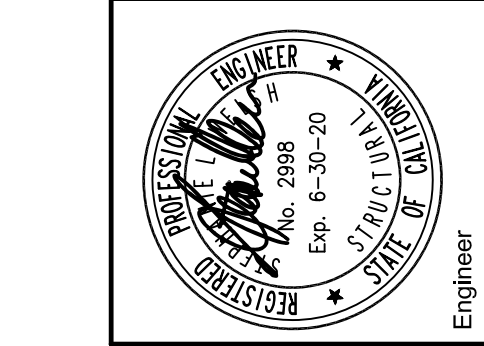


14 PARTIAL WALL ELEV. @ LINE 7

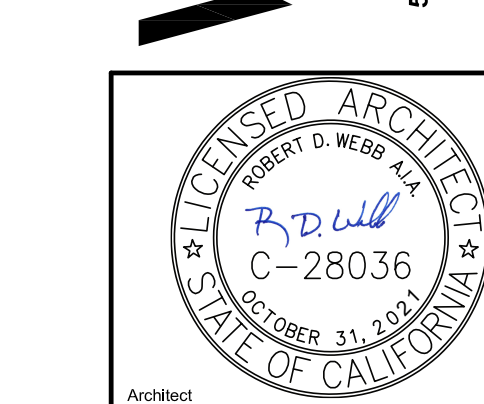
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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Revision Date

WSI
WALL STRUCTURES, INC.
17255 S. BARTON LANE
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J.N.: 19-01
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PROSPECT AVE - PRIDE ACADEMY
LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

FRAMING DETAILS

Drawn: MR
Checked: SW
Date: JANUARY 14, 2020
Job: SSD-PA-03

S6.3

MECHANICAL GENERAL NOTES

- 1. REVIEW THESE PLANS AND SPECIFICATIONS INCLUDING PLANS AND SPECIFICATIONS OF OTHER TRADES PRIOR TO BID. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT OF RECORD IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
2. VERIFY & COORDINATE EXACT LOCATION OF EXISTING EQUIPMENT. PENETRATIONS THROUGH ROOF, FLOOR AND WALLS WITH ARCHITECTURAL, STRUCTURAL, PLUMBING AND ELECTRICAL PRIOR TO SHOP DRAWINGS AND CONSTRUCTION.
3. COORDINATE EXACT SIZE AND ROUTING OF DUCT WORK AND PIPING WITH ARCHITECTURAL STRUCTURAL, PLUMBING AND ELECTRICAL PRIOR TO SHOP DRAWING AND CONSTRUCTION.
4. PROVIDE A COMPLETE SET OF SHOP DRAWINGS AND DETAILS BASED ON ACTUAL FIELD MEASUREMENT AND EQUIPMENT PROCURED.
5. PROVIDE ACCESS AND CLEARANCES FOR EQUIPMENT MAINTENANCE AS RECOMMENDED BY APPLICABLE CODES AND EQUIPMENT MANUFACTURER. COORDINATE WITH OTHER TRADES.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES, EQUIPMENT, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF DEMOLITION AND/OR NEW WORK.
7. FOR CONDITIONS THAT PIPE AND CONDUIT SUPPORT IS NOT PROVIDED, REFER TO SMACNA DETAILS.
8. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR COMPLETION OF THE WORK.
9. ALL WORK SHALL COMPLY WITH THE LATEST EDITION, ALL APPLICABLE CODES, SPECIFICATIONS, REQUIREMENTS OF AGENCIES HAVING JURISDICTION AND INDUSTRY STANDARDS.
10. INSULATE PIPING IN ACCORDANCE WITH THE GOVERNING CODES. INSULATION SHALL COMPLY WITH STATE FIRE MARSHALL CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSULATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED. REFRIGERATION PIPING INSULATION R-VALUE SHALL COMPLY WITH 2016 BUILDING ENERGY EFFICIENCY STANDARDS / TITLE 24, TABLE 120.3.A. PRIOR TO INSULATING THE PIPES CONFIRM REFRIGERATION PIPING TEMPERATURE WITH THE MANUFACTURER.
11. START-UP AND COMMISSION THE MECHANICAL SYSTEMS IN ACCORDANCE TO CALIFORNIA ENERGY CODE, ASHRAE AND NEBB STANDARDS.
12. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS AND NECESSARY OFFSETS OF PIPING OR DUCT WORK. THE CONTRACTOR SHALL INST ALL MATERIAL AND EQUIPMENT IN A MANNER TO AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL COMPLY WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD AFFECT THE SYSTEM PERFORMANCE OR INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE SUBMITTED PRIOR TO INSTALLATION OF THE ITEMS CONCERNED.
13. SUBSTITUTION IS NOT ALLOWED WITHOUT APPROVAL OF OWNER AND ARCHITECT OF RECORD. SUBSTITUTION OF MECHANICAL EQUIPMENT WITH EFFICIENCIES LOWER THAN THOSE INDICATED ON THE PLANS MAY REQUIRE RECALCULATION OF TITLE 24 DOCUMENTS. IF THE CONTRACTOR CHOOSES TO UTILIZE SUCH EQUIPMENT, HE/SHE ASSUMES FULL RESPONSIBILITY FOR THE RECALCULATION AND JURISDICTIONAL APPROVAL OF TITLE 24 DOCUMENTS. SUBSTITUTION OF EQUIPMENT OR DEVIATION FROM EQUIPMENT BASES OF DESIGN WITH GREATER WEIGHT OR OF DIFFERENT DIMENSIONS AND CONFIGURATION WHICH AFFECTS STRUCTURAL DETAILS OR SUPPORTS MUST BE SUBMITTED TO DSA IN A CCD, PRIOR TO CONSTRUCTING THE WORK OR INSTALLING THE EQUIPMENT. IF THE CONTRACTOR CHOOSES TO DEVIATE FROM BASIS OF DESIGN HE/SHE ASSUMES FULL RESPONSIBILITY FOR THE DSA RE-SUBMITTAL. DESIGN CHANGES, RECALCULATION AND REVISION TO MOUNTING DETAIL IS NOT INCLUDED IN OUR SCOPE OF WORK.
14. IF THE CONTRACTOR'S USE OF SUBSTITUTE MATERIALS, EQUIPMENT OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST IS THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.
15. SUBMITTALS: APPROVAL OF THE SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO FULLY COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
16. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED WHILE NORMAL OPERATIONS ARE BEING CONDUCTED IN ADJACENT SPACES. COORDINATE WITH GENERAL CONTRACTOR AND DISTRICT PROJECT MANAGER TO INSURE THAT WORK DOESN'T DISRUPT OPERATIONS IN ANY WAY.
17. INSTALL ALL WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL AND STRUCTURAL MEMBERS AND EXISTING MECHANICAL SYSTEMS. ADJUST PIPING AND DUCTWORK AS REQUIRED TO ACCOMMODATE NEW WORK. NO ITEMS SUCH AS PIPE, DUCT, ETC., TO BE IN CONTACT WITH ANY EQUIPMENT. INSTALL ALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE OR AS SPECIFIED ON DRAWINGS TO MAINTAIN MAXIMUM ACCESSIBILITY.
18. RESTORE ALL DAMAGE RESULTING FROM YOUR WORK, AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK.
19. KEEP ONE SET OF PLANS AT THE JOB SITE TO RECORD ANY CHANGES IN DESIGN.
20. PROVIDE BALANCING AND TESTING REPORT FOR AIR AND REFRIGERATION SYSTEMS TO ACHIEVE AND CONFIRM COMPLIANCE WITH DRAWINGS AND SPECIFICATION. TESTING AND BALANCING SHALL BE PERFORMED BY AN AGENT CERTIFIED BY EITHER AABC OR NEBB. USE STANDARD FORMS FOR AABC'S NATIONAL STANDARD FOR TESTING, ADJUSTING, AND BALANCING. FOR ENVIRONMENTAL SYSTEMS USE NEBB'S PROCEDURAL STANDARDS. ADJUST, SET AND BALANCE POWER EXHAUST TO INSURE THAT SPACES ARE NOT PRESSURIZED. (ARE SLIGHTLY POSITIVE, 0.05 INCHES WC), WHEN SYSTEMS ARE ON ECONOMIZER MODE. TAB REPORT SHALL INCLUDE WHEN SYSTEMS ARE ON ECONOMIZER MODE AND WHEN NOT ON ECONOMIZER MODE.
21. OBTAIN WRITTEN PERMISSION OF ARCHITECT OF RECORD BEFORE PROCEEDING WITH ANY CUTTING OR PATCHING OF STRUCTURAL SYSTEMS. IT SHALL BE REVIEWED BY AND APPROVED BY STRUCTURAL ENGINEER OF RECORD AND DSA.
22. NO MECHANICAL SYSTEM SHALL BE INSTALLED UNTIL ALL REQUIRED MECHANICAL PLAN CHECK PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REQUIRED AGENCIES.
23. COORDINATE AND SCHEDULE TIMING FOR UTILITY SERVICE CONNECTION.
24. ALL LINES BELOW SLAB ON GRADE TO BE LOCATED AWAY FROM ALL LOAD BEARING FOOTINGS.
25. ANY STRUCTURAL FIREPROOFING DAMAGED DURING INSTALLATION OF MECHANICAL EQUIPMENT, PIPING, ETC. SHALL BE REPAIRED AT NO COST TO THE OWNER. REPAIR SHALL BE DIRECTED BY THE ENGINEER OF RECORD.
26. CONTROL CONTRACTOR, ELECTRICAL CONTRACTOR, AND MECHANICAL CONTRACTOR SHALL WORK AND COORDINATE TOGETHER TO MAINTAIN REQUIRED CLEARANCES FOR ALL EQUIPMENT AND CONTROL PANELS. IF THERE ARE ANY ISSUES TO PROVIDE REQUIRED CLEARANCE IT SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OF RECORD PRIOR TO INSTALLATION.
27. ALL EXPOSED REFRIGERATION PIPING SHALL BE PROVIDED WITH ALUMINUM COVER.
28. PROVIDE SHOP DRAWINGS TO THE ARCHITECT OF RECORD FOR REVIEW. REFER TO "REQUIREMENTS FOR SHOP DRAWINGS" ON THIS SHEET FOR REQUIREMENTS.
29. FIRE ALARM SYSTEM SHALL PROVIDE AUTOMATIC SHUTOFF PER CMC SECTION 608 FOR SYSTEMS / SPACES EXCEEDING 2000 CFM. REFER TO SHEET M0.2, REMARK #22.
30. ALL DUCT SIZES NOTED ON DRAWINGS ARE INSIDE DIMENSIONS.
31. ALL SQUARE AND RECTANGULAR DUCTS SHALL BE LINED, EXCEPT EXHAUST DUCTWORK.

MECHANICAL GENERAL NOTES

- 32. MAXIMUM ALLOWABLE LENGTH OF FLEXIBLE DUCT IS 5'-0" AT THE DIFFUSERS. FLEXIBLE DUCTS SHALL HAVE THE FOLLOWING REQUIREMENTS:
a. CONSIST OF AN EXTERIOR REINFORCED LAMINATED VAPOR BARRIER, 1-1/2" THICK FIBERGLASS INSULATION, ENCAPSULATED SPRING STEEL WIRE HELIX AND IMPERVIOUS, SMOOTH, NON-PERFORATED INTERIOR VINYL LINER. INDIVIDUAL LENGTHS OF FLEXIBLE DUCTS SHALL CONTAIN FACTORY-FABRICATED STEEL CONNECTION COLLARS.
b. BE SUPPORTED AT OR NEAR MID LENGTH WITH 2" WIDE 28 GAUGE STEEL HANGER COLLAR ATTACHED TO THE STRUCTURE WITH AN APPROVED DUCT HANGER. INSULATION SHALL MINIMIZE SHARP RADIUS TURNS OR OFFSETS.
c. THE MAXIMUM LENGTH SHALL BE SEVEN (5) FEET AND CAN BE USED AT THE TERMINAL ENDS ONLY.
d. INSULATION AND FLEXIBLE DUCT SHALL COMPLY WITH STATE FIRE MARSHALL CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 PER ASTM-84, NFPA-233 AND UL 723.
33. ALL DUCT INSULATION R VALUE SHALL COMPLY WITH CALIFORNIA ENERGY STANDARDS YEAR 2016, TABLE 150.1-A OR SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
34. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HVAC EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER DEBRIS WHICH MAY ENTER THE SYSTEM.
35. REFRIGERATION PIPING INSULATION R-VALUE SHALL COMPLY WITH 2016 BUILDING ENERGY EFFICIENCY STANDARDS / TITLE 24, TABLE 120.3.A. PRIOR TO INSULATING THE PIPES CONFIRM REFRIGERATION PIPING TEMPERATURE WITH THE MANUFACTURER.
36. REGARDLESS OF THICKNESS, DUCTWORK INSULATION R-VALUE SHALL COMPLY WITH 2016 ENERGY CODE TABLE 150.1A.
37. SPECIAL ATTENTION SHALL BE MADE TO INSTALLATION OF THERMOSTATS. FOR EXACT LOCATION COORDINATE WITH ARCHITECT OF RECORD. PROVIDE INSULATED BACK PLATE TO AVOID SENSING TEMPERATURE OF AIR INSIDE THE WALLS AND TO AVOID SENSING WALL TEMPERATURE. SEAL THE WALL PENETRATIONS AIR TIGHT. AVOID INSTALLING NEAR WINDOWS, WHERE SUPPLY AIR MIGHT BLOW AT THE THERMOSTAT. ADJUST SUPPLY AIR DIFFUSER MODULES AS REQUIRED.
38. REFER TO ELECTRICAL DRAWINGS FOR CARBON MONOXIDE (CO) DETECTOR LOCATIONS AND REQUIREMENTS. SPACES SERVED BY GAS FIRED AIR-CONDITIONING UNITS SHALL BE EQUIPPED WITH CO SENSORS.

ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTE: ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.28 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

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

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

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

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE: PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

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

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

- MP MD PP E - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP MD PP E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED OPM#.
MP MD PP E - OPTION 3: SHALL COMPLY WITH SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDE ANY APPENDIX, FASTENERS AND OTHER AMENDMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL. OSHPD EDITION ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL "C" AND CONNECTION LEVEL "1" FOR THE PROJECT AND CONDITIONS.

HVAC ABBREVIATIONS & SYMBOLS

Table with 3 columns: SYMBOLS, ABBREV., DESCRIPTION. Lists various HVAC components like ductwork, diffusers, and dampers with their corresponding symbols and abbreviations.

HVAC ABBREVIATIONS

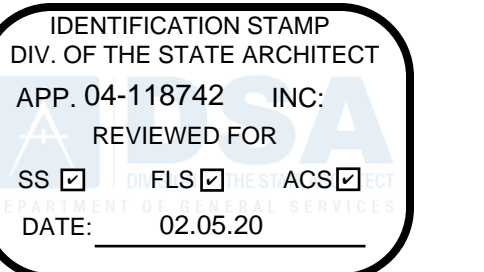
Table with 2 columns: ABBREV., DESCRIPTION. Lists abbreviations for HVAC components such as AC, AD/AP, AFF, AFG, ALC, etc.

SHEET INDEX

Table with 2 columns: SHEET NUMBER, SHEET TITLE. Lists sheet numbers M0.1 through M0.7 and their corresponding titles like MECHANICAL LEGEND, SYMBOLS & NOTES, MECHANICAL EQUIPMENT SCHEDULES, etc.

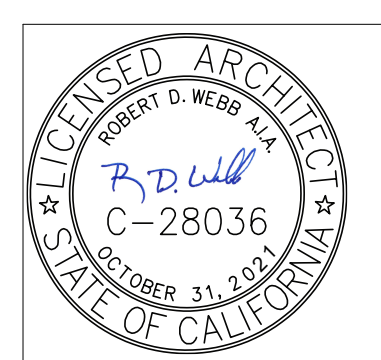
REQUIREMENTS FOR SHOP DRAWINGS

- PRIOR TO CONSTRUCTION PROVIDE ORIGINALLY PREPARED CONTRACTOR'S SHOP DRAWINGS IN ELECTRONIC FORMAT. IN ADDITION TO THE REQUIREMENTS SPECIFIED IN SPECIFICATIONS, THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING, AND NOT LIMITED TO:
1. DUCT, PIPE AND PLUMBING ELEVATIONS.
2. DOUBLE LINE DUCTWORK AND PIPING (6" AND LARGER).
3. ACTUAL SIZE OF PURCHASED EQUIPMENT, PER APPROVED CONTRACTOR'S SHOP DRAWINGS.
4. ACCESS PANELS, INCLUDING CEILING PANELS.
5. ACCESS CLEARANCES FOR EQUIPMENT.
6. ACTUAL LOCATIONS OF CEILING DIFFUSERS, REGISTERS AND RETURN REGISTERS.
7. LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS AND PLUMBING SYSTEMS.
8. ACTUAL LOCATIONS OF CONTROL PANELS AND POWER CONNECTIONS TO EQUIPMENT.
9. COLOR CODED DUCT AND PIPING BASED ON MATERIAL USED.
10. MINIMUM 1/4"-1"0" SCALE DRAWINGS.
11. LABEL AND TAG SCHEDULE FOR EQUIPMENT.
12. DUCT TRANSITIONS TO CLEAR BEAMS OR TIGHT AREAS.
13. ROOM TEMPERATURE SENSOR LOCATIONS, COORDINATED WITH ARCHITECT OF RECORD.
14. POINT OF CONNECTION TO UTILITIES OUTSIDE THE BUILDING, COORDINATED WITH CIVIL.
15. SECTIONS OR 3-D DRAWINGS OF CONGESTED AREAS.
16. GRID LINES.
17. UTILITY PROFILES FOR UNDERGROUND PIPING, COORDINATED WITH CIVIL AND PLUMBING.
18. DO NOT COMMENCE WITH ANY INSTALLATION, DEMOLITION OR ORDERING OF ANY EQUIPMENT OR MATERIAL FABRICATION WITHOUT AN APPROVED SHOP DRAWING SUBMITTAL.



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W/studiowc ARCHITECTURE + ENGINEERING logo and address: 616 Esplanade Blvd., Ste. 201, Escondido, California 92024. Telephone: (760)733-8800 Fax: (760)452-7541.

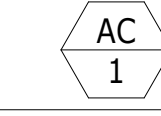


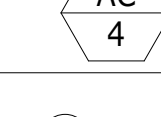


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MECHANICAL LEGEND, SYMBOLS & NOTES

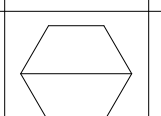
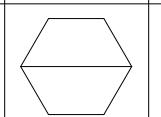
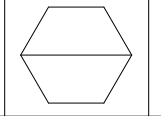
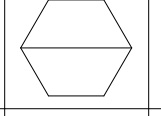
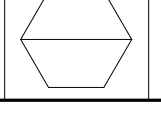
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PACKAGE GAS HEAT ELECTRIC COOL AIR CONDITIONING UNIT SCHEDULE

SYMBOL	MANUFACTURER & MODEL NO.	LOCATION	AREA SERVED	AIR DISTRIBUTION EXT. SP. (IN. WG.)	50% DIRTY FILTER PRESS. (IN. WG.)	TOTAL EXT. SP. (IN. WG.)	SA (CFM)	MIN. OSA (CFM)	COOLING						GAS HEATING				ELECTRICAL DATA						ROOF CURB		TOTAL WEIGHT (LBS)	DETAILS	REMARKS					
									TOTAL COOLING (MBH)		SENSIBLE COOLING (MBH)		EVAPORATOR		INPUT (MBH)	OUTPUT (MBH)	EAT (°F)	LAT (°F)	COMPRESSOR		CONDENSER FAN		SUPPLY FAN		MAX. FUSE SIZE	MCA				V/PH/Hz	SEER (IEER)	UNIT WEIGHT WITH POWER EXHAUST (LBS)	MANUFACTURER & MODEL NO.	WEIGHT (LBS)
											EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)					QTY.	RLA (EACH)	QTY.	FLA (EACH)	BHP/HP											
	CARRIER 48LCL05	ROOF	LRNG RESRCE STAFF BOOKRM 2, 3	0.60	0.65	1.25	1,520	300	44.2	38.0	77	62	53.9	51.7	60	49	61	90.8	1	14	1	3.5	1.10/1.7	40	27	208/3/60	16.4	850	MICROMETL CRBK-SRT12FA-11	95	945	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒㉓		
	CARRIER 48LCL06	ROOF	LARGE OFFICE SMALL OFFICE 4, 5, 6, 7	0.60	0.65	1.25	1,900	405	56.1	49.6	77	62	52.8	51.5	60	49	60	83.9	1	16.2	1	3.5	1.62/2.4	45	31	208/3/60	16.2	860	MICROMETL CRBK-SRT12FA-11	95	945	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒㉓		
	CARRIER 48LCL07	ROOF	ARTS/SCIENCE MAKER SPACE 10	0.60	0.65	1.25	2,280	405	69.2	58.2	77	63	53.4	52.5	50/72	41/59	62	86.0	2	8.3/13.2	2	1.8	1.33/1.7	45	35	208/3/60	(20.5)	1380	MICROMETL CRBK-SRT34FA-11	115	1495	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒㉓		
	CARRIER 48LCL07	ROOF	LEARNING RESOURCE 2	0.60	0.65	1.25	2,280	405	69.2	58.2	77	63	53.4	52.5	50/72	41/59	62	86.0	2	8.3/13.2	2	1.8	1.33/1.7	45	35	208/3/60	(20.5)	1380	MICROMETL CRBK-SRT34FA-11	115	1495	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒㉓		

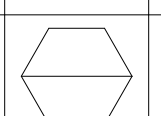
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| <ul style="list-style-type: none"> ① REFRIGERANT SHALL BE R-410. ② PROVIDE WITH 100% MODULATING POWER EXHAUST, SAME AIRFLOW AS SUPPLY AIR ECONOMIZER WITH DRY BULB TEMPERATURE CONTROL, CALIFORNIA TITLE 24 COMPLIANT FAULT DETECTION AND DIAGNOSTIC AND LOW LEAKAGE DAMPER. SUBMITTAL AND TAB REPORT SHALL CONFIRM THIS REQUIREMENT. ③ EQUIPPED WITH MERV 13 FILTERS. PRESSURE DROP OF 50% DIRTY FILTERS SHALL BE INCLUDED IN TOTAL EXTERNAL PRESSURE DROP. MERV RATING SHALL BE CLEARLY MARKED ON FILTER FROM FACTORY. ④ PROVIDE WITH FACTORY COIL GUARDS. ⑤ CONTROLS CONTRACTOR TO PROVIDE CARRIER I-VU OR EQUAL DDC CONTROLLER COMPATIBLE WITH THE SANTEE SCHOOLS EMS. | <ul style="list-style-type: none"> ⑥ PROVIDE SEPARATE POWER FOR POWER EXHAUST FLA=2.7, MCA=3.4, MOCPP=6.1, HP=0.5, 208V, 3PH. COORDINATE WITH ELECTRICAL. SUBMITTAL AND TAB REPORT SHALL CONFIRM THIS REQUIREMENT. ⑦ DAMPER ACTUATORS SHALL BE "BELIMO" AND COMPATIBLE WITH SCHOOL DISTRICT STANDARDS. COORDINATE WITH CONTROLS CONTRACTOR. SEE CONTROLS DRAWINGS. ⑧ PROVIDE WITH 11" TALL "MICROMETL" OR EQUAL STANDARD ROOF CURB. ⑨ PROVIDE WITH SINGLE STAGE STAINLESS STEEL HEAT EXCHANGER. ⑩ PROVIDE WITH TWO STAGE STAINLESS STEEL HEAT EXCHANGER. ⑪ PROVIDE WITH LOW NOX GAS HEAT, FLUE DISCHARGE DEFLECTOR AND LOW AMBIENT CONTROLS. FLUE DEFLECTOR TO EXTEND AND DISCHARGE ABOVE TOP OF AC UNIT. | <ul style="list-style-type: none"> ⑫ IN ADDITION TO SEALED SPRING ISOLATING ROOF CURB SYSTEM, COMPLETELY SEAL AROUND ALL DUCT PENETRATIONS THROUGH THE ROOF ASSEMBLY. ⑬ AT COMPLETION OF CONSTRUCTION AND AFTER TESTING AND COMMISSIONING THE SYSTEM, REPLACE ALL FILTERS WITH NEW. ⑭ LUVATA ELECTRO-FINE COAT (OR EQUAL) ON CONDENSING COILS. ⑮ FOR ECONOMIZER OPERATION AND SET POINT REFER TO CONTROL DIAGRAMS SEQUENCE OF OPERATION. ⑯ PROVIDE FACTORY INSTALLED VFD ON SUPPLY FAN AND POWER EXHAUST. SF VFD SHALL BE ABB AND IT'S SPEED CONTROLLED BY AC UNIT CONTROLS. POWER EXHAUST FAN SHALL BE CONTROLLED BY THE EMS DDC CONTROLS. | <ul style="list-style-type: none"> ⑰ COORDINATE WITH CONTROLS CONTRACTOR TO PROVIDE ALL REQUIRED COMPONENTS THAT SHALL BE FIELD INSTALLED. ⑱ EVAPORATOR FAN MOTORS SHALL BE BELT DRIVE. ⑲ PROVIDE EQUIPMENT ID TAG IN COMPLIANCE WITH SPECIFICATIONS. ⑳ UNIT SHALL BE EQUIPPED WITH CONVENTIONAL THERMOSTAT (ELECTRO / MECHANICAL) TERMINAL STRIP. ㉑ PROVIDE SEPARATE POWER FOR POWER EXHAUST FLA=5.1, MCA=6.4, MOCPP=11.5, HP=1, 208V, 3PH. COORDINATE WITH ELECTRICAL. ㉒ FIRE ALARM SYSTEM SHALL PROVIDE UNIT AUTOMATIC SHUTOFF PER CMC SECTION 808 BY FIRE / ALARM CONTRACTOR IN LIEU OF DUCT SMOKE DETECTOR. SEE 9/M5.2. ㉓ COORDINATE WITH ELECTRICAL AND CONTROLS CONTRACTOR TO AVOID INSTALLING DISCONNECT SWITCH AND CONTROL MODULE ON EQUIPMENT INFORMATION TAG. EQUIPMENT MANUFACTURER AND MODEL NUMBER SHALL BE VISIBLE. |
|---|---|--|---|

VVT SCHEDULE

SYMBOL	UNIT NO.	MANUFACTURER & MODEL NO.	AREA SERVED	AC UNIT	MAX AIRFLOW (CFM)	MIN AIRFLOW (CFM)	INLET SIZE (IN)	WEIGHTS (LBS)	REMARKS
	Z.2.1	CARRIER / 35JN010	LARGE OFFICE (LAS) 4	AC 2	690	345	10	28	①②③④⑤⑥⑦
	Z.2.2	CARRIER / 35JN07	SM. OFC / BREAK-OUT 5	AC 2	395	200	7	23	①②③④⑤⑥⑦
	Z.2.3	CARRIER / 35JN07	SM. OFC / WORKROOM 6	AC 2	510	255	7	23	①②③④⑤⑥⑦
	Z.2.4	CARRIER / 35JN06	SM. OFC / BREAK-OUT 7	AC 2	305	155	6	21	①②③④⑤⑥⑦
	Z.2.5	CARRIER / PASO-10	-	AC 2	1900	-	16x10	21	①②③④⑤⑥⑦

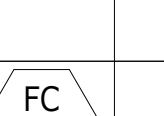
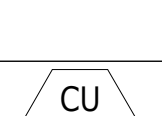
- ① CONTROLS CONTRACTOR TO PROVIDE COMPATIBLE CONTROLLER.
- ② PROVIDE AIR FLOW SENSOR AND STATIC PRESSURE SENSOR.
- ③ PROVIDE A MINIMUM OF THREE TIMES THE DAMPER DIAMETER OF STRAIGHT DUCT AT INLET FOR PROPER FLOW READING.
- ④ CONTROLS CONTRACTOR SHALL PROVIDE CONTROLLERS FOR THE VVT BOXES WITH PRESSURE INDEPENDENT CONTROL, SUPPLY AIR TEMPERATURE SENSOR, PID CONTROL, REMOTE OCCUPANCY CONTACT INPUT, GLOBAL SET POINT AND OCCUPANCY SCHEDULE.
- ⑤ PROVIDE VELOCITY PORTS.
- ⑥ ACTUATOR, TRANSFORMER, LOW VOLTAGE WIRING, AND CONDUIT BY CONTROL CONTRACTOR.
- ⑦ PROVIDE EQUIPMENT ID TAG.

GRAVITY VENTILATOR SCHEDULE

SYMBOL	UNIT NO.	MANUFACTURER & MODEL NO.	LOCATION	AREA SERVED	TYPE	AIR FLOW		WEIGHT (LBS)	DETAIL	REMARKS
						CFM	ESP			
	GV 1	LOREN COOK / PR-8	ROOF	TOILET 1	RELIEF	150	0.05	40	3/M5.2	①②

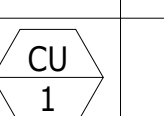
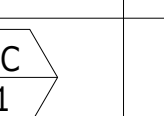
- ① PROVIDE PRE-MANUFACTURED ROOF CURB.
- ② PROVIDE ALUMINUM BIRD SCREEN.

DUCTLESS SPLIT SYSTEM SCHEDULE (INDOOR UNIT)/COOLING ONLY

SYMBOL	MANUFACTURER & MODEL NO.	TYPE	AREA SERVED	SYSTEM / UNIT	FAN DATA			COMBINED CAPACITY COOLING		OPER. WEIGHT (LBS)	DETAIL	REMARKS	
					AIR FLOW (CFM)	MOCPP	FLA	V/PH/Hz	TOTAL (MBH)				SENSIBLE (MBH)
	LIEBERT DME020E-PCN	DUCTLESS WALL MOUNT	ELECT. 2		870	15	1.4	208/1/60	17.4	17.2	240	7/M5.1 9/M5.1	①②③④⑤⑥⑦

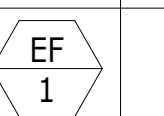
- ① R-407C REFRIGERANT
- ② PROVIDE WITH WALL MOUNT KIT.
- ③ PROVIDE WITH MICROPROCESSOR CONTROL AND MONITOR.
- ④ PROVIDE WITH BACNET INTERFACE CARD FOR DISTRICT EMS SYSTEM, FOR ALARM SIGNALS, AND MONITORING.
- ⑤ PROVIDE WITH FACTORY CONDENSATE PUMP, WITH INTEGRAL FLOAT SWITCH, CHECK VALVE, RESEVOIR. MINIMUM 10 FEET HEAD.
- ⑥ PROVIDE EQUIPMENT ID TAG IN COMPLIANCE WITH SPECIFICATIONS.
- ⑦ PROVIDE AND INSTALL COMPLETE SYSTEM OF REFRIGERATION PIPING BETWEEN FAN COIL AND ASSOCIATED OUTDOOR UNIT. CONFIRM REQUIRED REFRIGERATION PIPE SIZES WITH EQUIPMENT MANUFACTURER FOR THE CAPACITY AND DISTANCE BETWEEN FAN COILS AND CONDENSING UNITS. AS PART OF SUBMITTAL, PROVIDE DOCUMENTATION.

SPLIT SYSTEM SCHEDULE (OUTDOOR UNIT)/COOLING ONLY

SYMBOL	MANUFACTURER & MODEL NO.	SYSTEM / UNIT	NOMINAL COOLING CAPACITY (TONS)	ELECTRICAL			SCOP	WEIGHT (LBS)	DETAIL	REMARKS
				MOCPP (AMPS)	MCA	V/PH/Hz				
	LIEBERT PFH020A-PLN		1.5	25	11	208 / 1 / 60	2.12	200	8/M5.1	①②③④⑤⑥⑦⑧⑨⑩

- ① PROVIDE AND INSTALL A COMPLETE SYSTEM OF REFRIGERATION PIPING BETWEEN FAN COIL UNITS AND ASSOCIATED OUT DOOR UNITS. PIPE SIZE SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATION FOR DISTANCE BETWEEN FC'S AND CU'S.
- ② EQUIPPED WITH LOW AMBIENT KIT.
- ③ PROVIDE WITH DISCONNECT SWITCH BY ELECTRICAL.
- ④ PROVIDE WITH NEOPRENE PAD VIBRATION ISOLATOR.
- ⑤ REFRIGERANT LINES SHALL BE INDIVIDUALLY INSULATED.
- ⑥ PROVIDE WITH M-NET CONTROL ADAPTOR, PAC-SF83MA-E.
- ⑦ PROVIDE EQUIPMENT ID TAG IN COMPLIANCE WITH SPECIFICATIONS.
- ⑧ PROVIDE WITH R-407C REFRIGERANT.
- ⑨ EQUIPPED WITH SCROLL COMPRESSOR WITH HOT GAS BYPASS.
- ⑩ EQUIPPED WITH HIGH PRESSURE SWITCH.
- ⑪ COORDINATE WITH ELECTRICAL AND CONTROLS CONTRACTOR TO AVOID INSTALLING DISCONNECT SWITCH AND CONTROL MODULE ON EQUIPMENT INFORMATION TAG.

EXHAUST FAN SCHEDULE

SYMBOL	MANUFACTURER & MODEL NO.	LOCATION	AREA SERVED	FAN TYPE	DRIVE	CFM	SP IN.WG.	FAN RPM	SOUND RATING (SONES)	ELECTRICAL		WEIGHT (LBS)	DETAIL	REMARKS
										HP/WATTS	V/PH/Hz			
	LOREN COOK GC-186	CEILING	TOILET 1	CEILING	DIRECT	150	0.25	814	2.5	(66)	115/1/60	25	2/M5.2	①②③④⑤

- ① PROVIDE BACK DRAFT DAMPER.
- ② PROVIDE PRE-MANUFACTURED GRAVITY VENTILATOR.
- ③ INTERLOCK WITH LIGHT SWITCH. REFER TO ELECTRICAL PLANS.
- ④ PROVIDE WITH DISCONNECT SWITCH BY ELECTRICAL.
- ⑤ PROVIDE EQUIPMENT IDENTIFICATION TAG IN COMPLIANCE WITH SPECIFICATIONS.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

SYMBOL	MANUFACTURER & MODEL NO.	NECK SIZE	FRAME STYLE	FRAME SIZE	OBD (YES / NO)	THROW	DESCRIPTION	DETAILS	REMARKS
CD-1	TITUS MCD	SEE PLANS	T-BAR	SEE PLANS	YES	SEE PLAN	MODULAR CORE CEILING DIFFUSER WITH SQUARE TO ROUND ADAPTER	3/M5.1	①②③
CD-2	TITUS MCD	SEE PLANS	SURFACE	SEE PLANS	YES	SEE PLAN	MODULAR CORE CEILING DIFFUSER WITH SQUARE TO ROUND ADAPTER	3/M5.1	①②③
SW-1	TITUS 300RL	SEE PLANS	WALL	SEE PLANS	YES	SEE PLAN	DOUBLE DEFLECTION, INDIVIDUALLY ADJUSTABLE BLADES SUPPLY AIR DIFFUSER	7/M5.2	①②
CR-1	TITUS 50F	SEE PLANS	T-BAR	SEE PLANS	NO	RETURN	EGG CRATE SQUARE CEILING RETURN GRILLE	3/M5.1	①②
CE-1	TITUS 50F	SEE PLANS	T-BAR	24 x 24	NO	EXHAUST	EGG CRATE SQUARE CEILING EXHAUST GRILLE	3/M5.1	①②
TG-1	TITUS 50F	SEE PLANS	T-BAR	SEE PLANS	NO	TRANSFER	EGG CRATE SQUARE CEILING TRANSFER GRILLE	3/M5.1	①②
TG-2	TITUS 50F	SEE PLANS	SURFACE	SEE PLANS	NO	TRANSFER	EGG CRATE SQUARE CEILING TRANSFER GRILLE	3/M5.1	①②

- ① COORDINATE WITH ARCHITECT FOR FINISH COLOR.
- ② ALTERNATIVE MANUFACTURER: "KRUEGER", "METAL AIR", "PRICE".
- ③ ALL CEILING DIFFUSERS SHALL BE 4-WAY UNLESS THROW DIRECTION IS SHOWN ON FLOOR PLAN.

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PROSPECT AVENUE ELEMENTARY SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

MECHANICAL EQUIPMENT SCHEDULES

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M0.2

GENERAL NOTES

- FOR EXACT LOCATION OF DIFFUSERS AND GRILLES REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
- PRIOR TO INSTALLATION, COORDINATE EXACT LOCATION OF ROOM TEMPERATURE SENSORS / THERMOSTATS WITH THE ARCHITECT. ACCESS TO THERMOSTATS SHALL COMPLY WITH DETAIL 6/M5.2. FOR ALL THERMOSTATS PROVIDE INSULATED BACKPLATE.
- ALL SA AND RA SQUARE AND RECTANGULAR DUCTWORK SHALL BE LINED REGARDLESS IF SHOWN OR NOT.
- PROVIDE DUCT HANGERS AND SUPPORTS IN COMPLIANCE WITH DETAILS ON M5.1. PROVIDE SEISMIC BRACING AT ALL ELBOWS AND END OF THE DUCT RUNS AND BOTTOM OF RISERS. IF ADDITIONAL DETAILS ARE REQUIRED COMPLY WITH "SMACNA" GUIDELINE.
- COORDINATE ALL WORK WITH STRUCTURAL, ELECTRICAL AND PLUMBING. PROVIDE SHOP DRAWINGS FOR REVIEW AND COMMENTS.
- PROVIDE CEILING ACCESS PANEL AT HARD LID CEILING TO ACCESS MANUAL VOLUME DAMPERS.
- FOR REQUIRED OPERABLE DOOR SENSORS, REFER TO CONTROL DIAGRAMS AND ARCHITECTURAL PLANS.
- FOR TAB REQUIREMENTS REFER TO M0.1 GENERAL NOTE #20, AND SPECIFICATIONS.

KEYNOTES

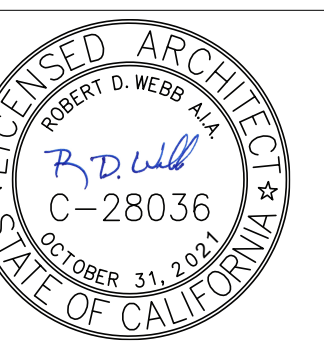
- LINED SA DUCT UP THRU ROOF. EXTEND AND TRANSITION TO CONNECT TO AC UNIT WITH FLEX CONNECTION, FOR CONTINUATION SEE ROOF PLAN.
- LINED RA DUCT UP THRU ROOF. EXTEND AND TRANSITION TO CONNECT TO AC UNIT WITH FLEX CONNECTION, FOR CONTINUATION SEE ROOF PLAN.
- EA DUCT UP THRU ROOF. PROVIDE PRE-MANUFACTURED GRAVITY VENTILATOR.
- FLEXIBLE DUCT MAXIMUM 5 FEET LONG.
- PROVIDE MVD AT ALL BRANCHES REGARDLESS IF SHOWN OR NOT.
- PROVIDE WALL MOUNTED FAN COIL. RUN REFRIGERANT PIPES TO ASSOCIATED OUTDOOR UNIT. SIZE PER MANUFACTURER RECOMMENDATION.
- PROVIDE ROOM TEMPERATURE SENSOR / THERMOSTAT. COORDINATE EXACT LOCATION WITH THE ARCHITECT. PROVIDE WITH INSULATED BACK PLATE. SEAL WALL AND BACK PLATE PENETRATIONS AIR TIGHT.
- REFRIGERANT PIPES UP THRU ROOF.
- INSTALL ALL REFRIGERATION PIPES ABOVE CEILING IN CPVC SLEEVE.
- PROVIDE (2) WALL LOUVERS, (1) HIGH AND (1) LOW WITH (2) SQUARE FEET OF 50% FREE AREA, EACH. COORDINATE WITH THE ARCHITECT REGARDING COLOR AND MATERIAL.
- PROVIDE OCCUPANCY SENSOR, "PERFECTSENSE" MODEL# PS-HC24-R AT THE CEILING TO ACTIVATE AC UNIT. CONFIRM THE MODEL NUMBER WITH THE MANUFACTURER FOR THE ROOM SIZE AND LOCATION TO INSTALL.
- PROVIDE CARBON DIOXIDE (CO2) SENSOR.
- STRAIGHT DUCT SHALL BE A MINIMUM OF THREE TIMES THE DAMPER DIAMETER.

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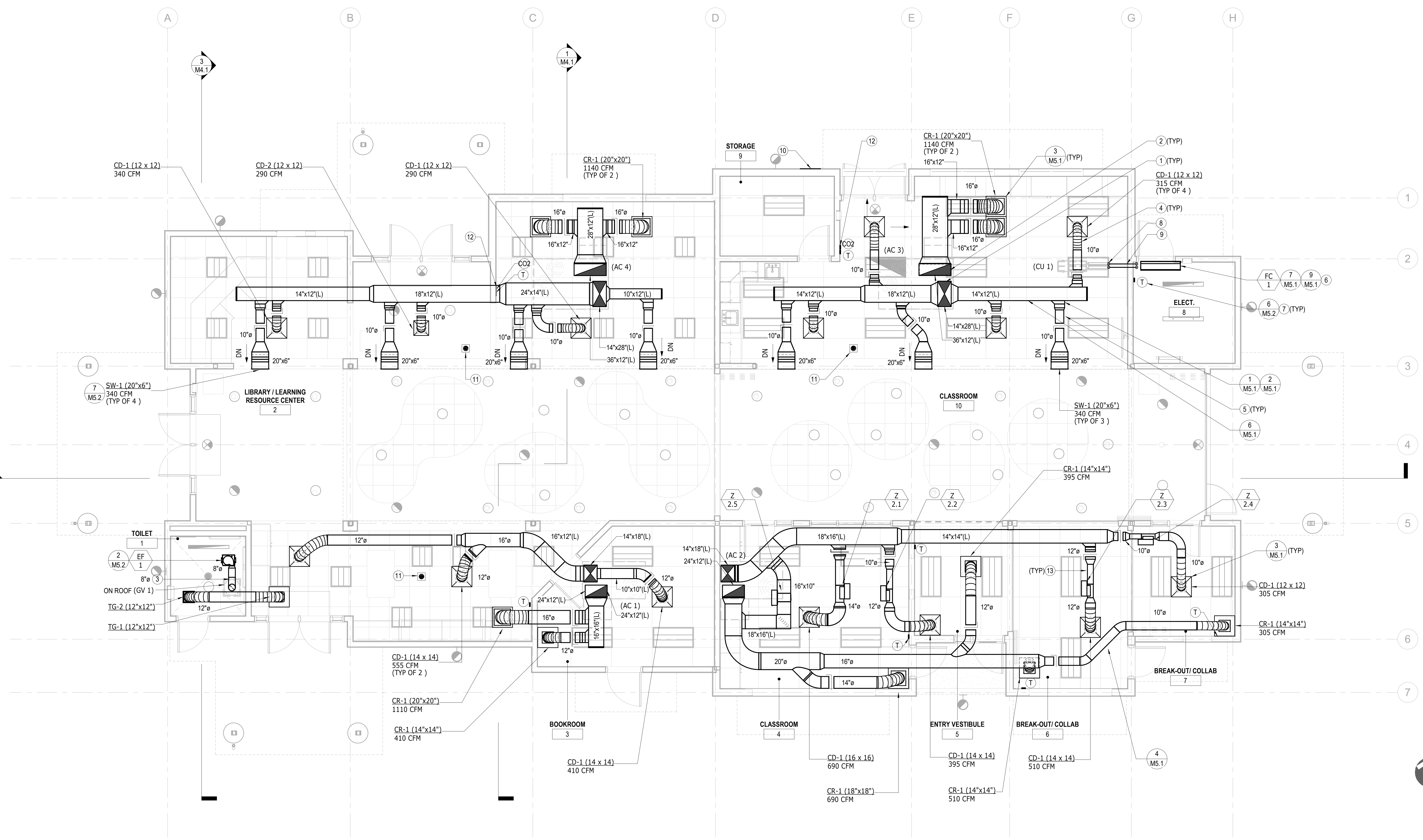


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MECHANICAL FLOOR PLAN

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M2.0



GENERAL NOTES

1. MAINTAIN A MINIMUM OF 10 FEET BETWEEN AC UNITS OUTSIDE AIR INTAKE AND PLUMBING VENTS AND EXHAUST AIR DISCHARGE.
2. PRIOR TO CONSTRUCTION COORDINATE EXACT LOCATION OF AC UNITS, EXHAUST FANS AND DUCTS THRU ROOF WITH STRUCTURAL AND ARCHITECTURAL.
3. PRIOR TO CONSTRUCTION COORDINATE WITH PLUMBING FOR VENTS THRU ROOF LOCATIONS, AND GAS AND CONDENSATE DRAIN PIPING. COORDINATE WITH ELECTRICAL.
4. TAG ALL EQUIPMENT TO CORRESPOND WITH EQUIPMENT SCHEDULE OR AS DIRECTED BY THE OWNER. COORDINATE WITH OWNER FOR NUMBERING SYSTEM.
5. FOR ROOF MOUNTED PIPING PROVIDE ADJUSTABLE PIPE SUPPORT WITH MAXIMUM SPACING OF 6 FEET ON CENTER. FOR PIPE SUPPORT DETAIL ON ROOF SEE PLUMBING DETAIL.
6. COORDINATE ALL WORK WITH ARCHITECT, STRUCTURAL, ELECTRICAL, PLUMBING, AND CONTROLS.
7. COORDINATE CONDENSATE DRAIN AND GAS PIPE WITH PLUMBING.
8. COORDINATE ALL DUCTS THRU ROOF WITH STRUCTURAL.
9. COORDINATE WITH ELECTRICAL AND CONTROLS CONTRACTORS TO AVOID INSTALLING DISCONNECT SWITCH AND CONTROL MODULES ON EQUIPMENT TAGS, ACCESS DOORS AND REMOVABLE PANELS.

KEYNOTES

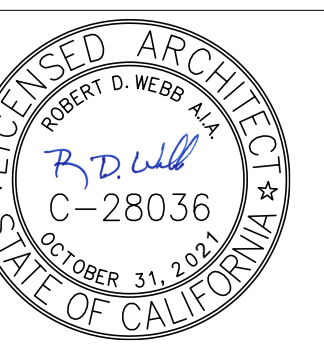
- ① LINED SA DUCT DOWN THRU THE ROOF. PROVIDE FLEX CONNECTION AT DUCT CONNECTING TO UNIT.
- ② LINED RA DUCT DOWN THRU THE ROOF. PROVIDE FLEX CONNECTION AT DUCT CONNECTING TO UNIT.
- ③ EA DUCT DOWN THRU THE ROOF.
- ④ THE CIRCLE SHOWS REQUIRED 10 FEET DISTANCE BETWEEN OSA INTAKE AND PLUMBING VENTS AND EXHAUST DISCHARGE.
- ⑤ AC UNIT REQUIRED SERVICE CLEARANCE, VERIFY WITH EQUIPMENT MANUFACTURER.
- ⑥ PROVIDE PRE-MANUFACTURED ROOF CURB FOR AC UNITS. SEE EQUIPMENT SCHEDULE. FOR ANCHORAGE TO ROOF STRUCTURE REFER TO STRUCTURAL DRAWINGS.
- ⑦ MAINTAIN A MINIMUM 10 FEET BETWEEN ECONOMIZER OUTSIDE AIR INTAKE AND PLUMBING VENTS AND EXHAUST DISCHARGE.
- ⑧ REFRIGERANT PIPES DOWN THRU ROOF. EXTEND AND CONNECT TO ASSOCIATED FAN COIL UNIT.
- ⑨ PROVIDE ALUMINUM COVER / SLEEVE FOR ALL EXPOSED REFRIGERATION PIPES.
- ⑩ COORDINATE EXACT LOCATION OF PLUMBING VENTS WITH PLUMBING TO MAINTAIN A MINIMUM OF 10 FEET AWAY FROM AC UNIT'S OUTSIDE AIR INTAKE.
- ⑪ COORDINATE EXACT LOCATION OF GAS AND CONDENSATE DRAIN PIPES THRU ROOF WITH PLUMBING.
- ⑫ FIRE ALARM SHALL PROVIDE UNIT AUTOMATIC SHUTOFF PER CMC SECTION 608 BY FIRE / ALARM CONTRACTOR IN LIEU OF DUCT SMOKE DETECTOR. SEE 9/M5.2.
- ⑬ PROVIDE SPACE PRESSURE SENSOR TO SET ECONOMIZER AIR FLOW RATE APPROXIMATELY EQUAL TO SUPPLY AIR WHEN SYSTEM IS ON ECONOMIZER CYCLE. FOR ADDITIONAL REQUIREMENTS REFER TO M0.1 GENERAL NOTE #20.

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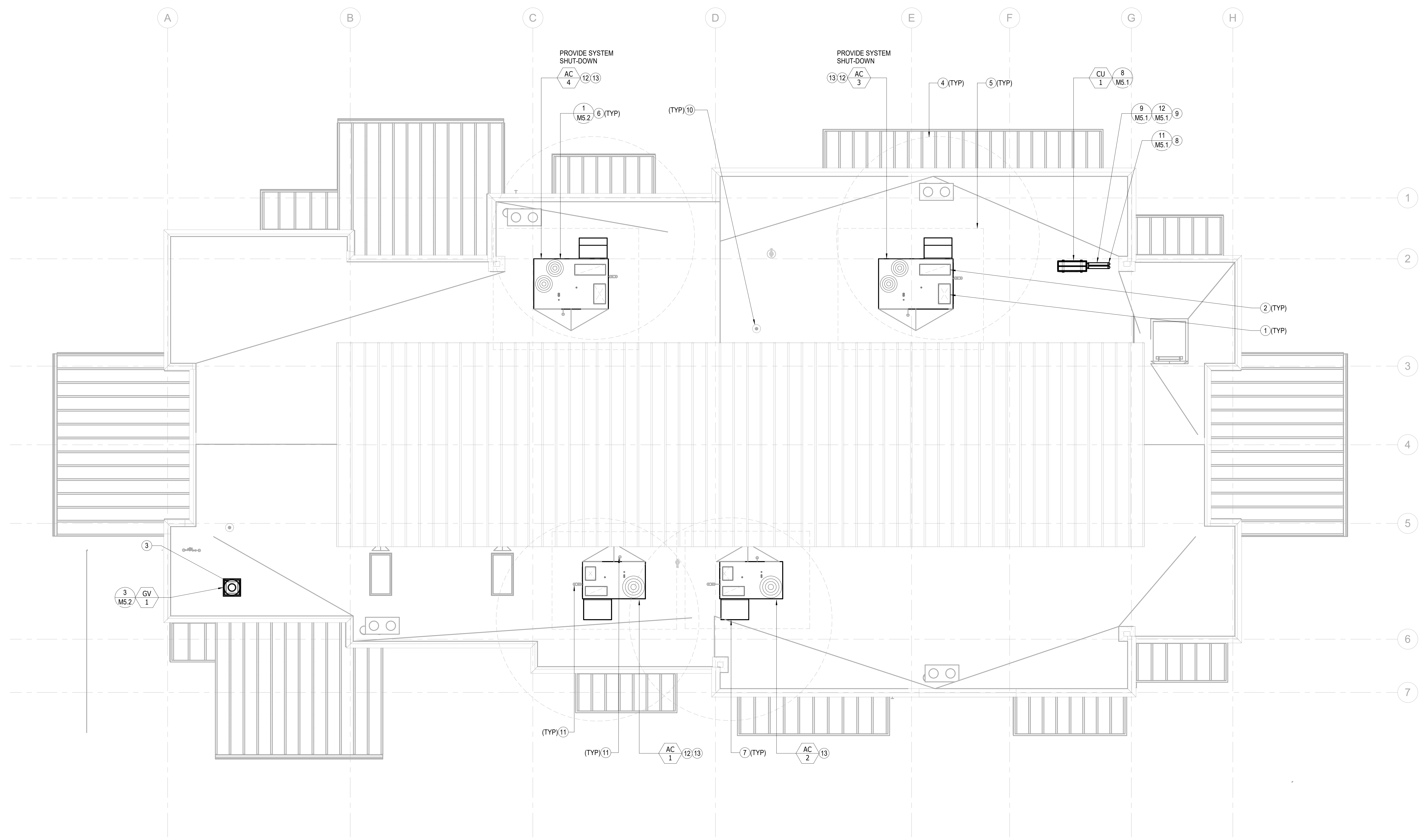


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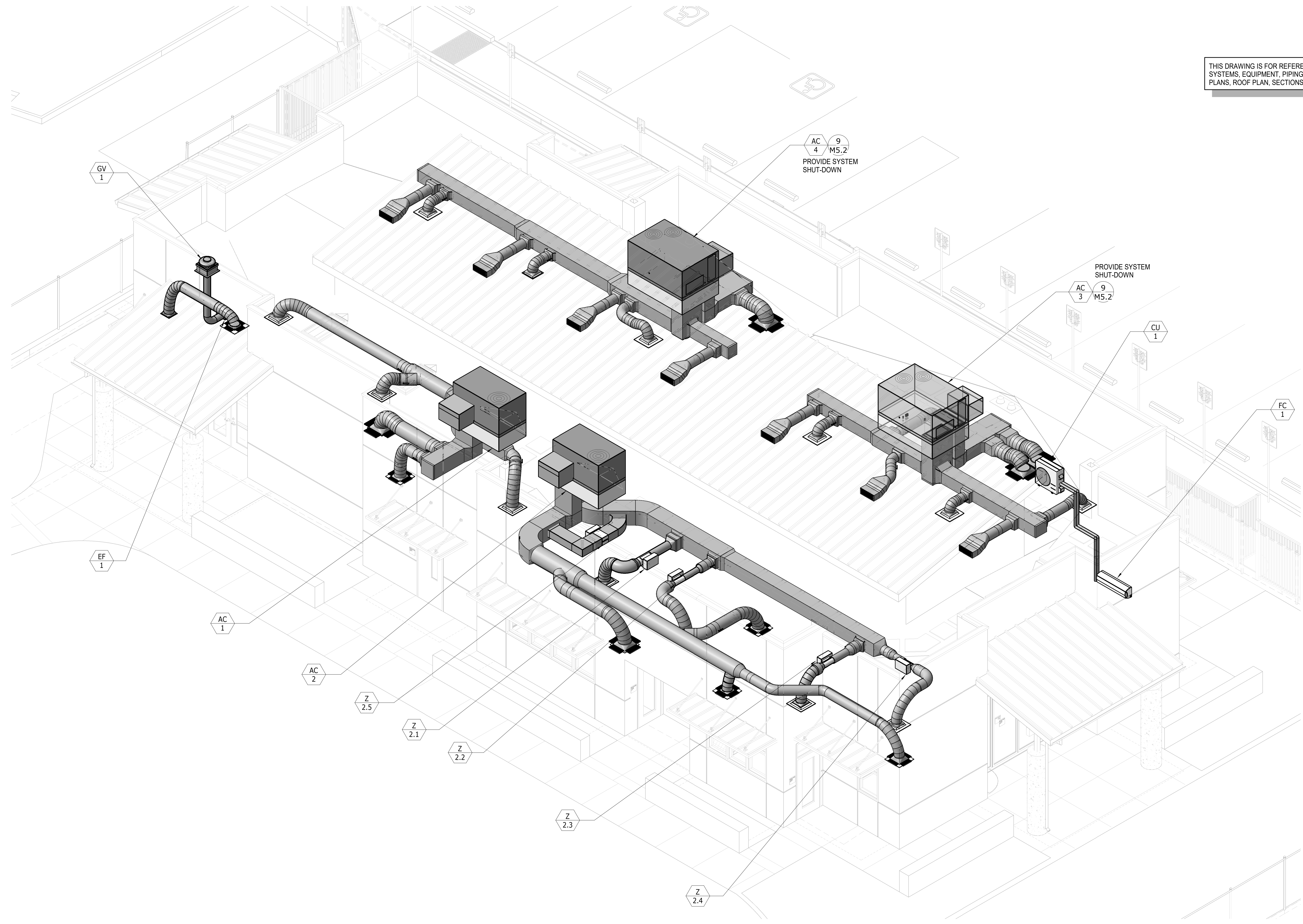
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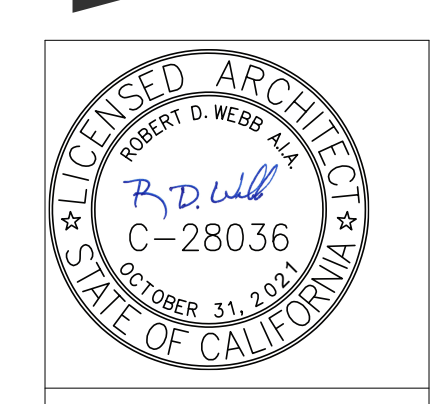
THIS DRAWING IS FOR REFERENCE ONLY AND DOES NOT SHOW ALL SYSTEMS, EQUIPMENT, PIPING, DUCTWORK AND ACCESSORIES. FLOOR PLANS, ROOF PLAN, SECTIONS AND DETAILS SUPERCEDE THIS DRAWING.



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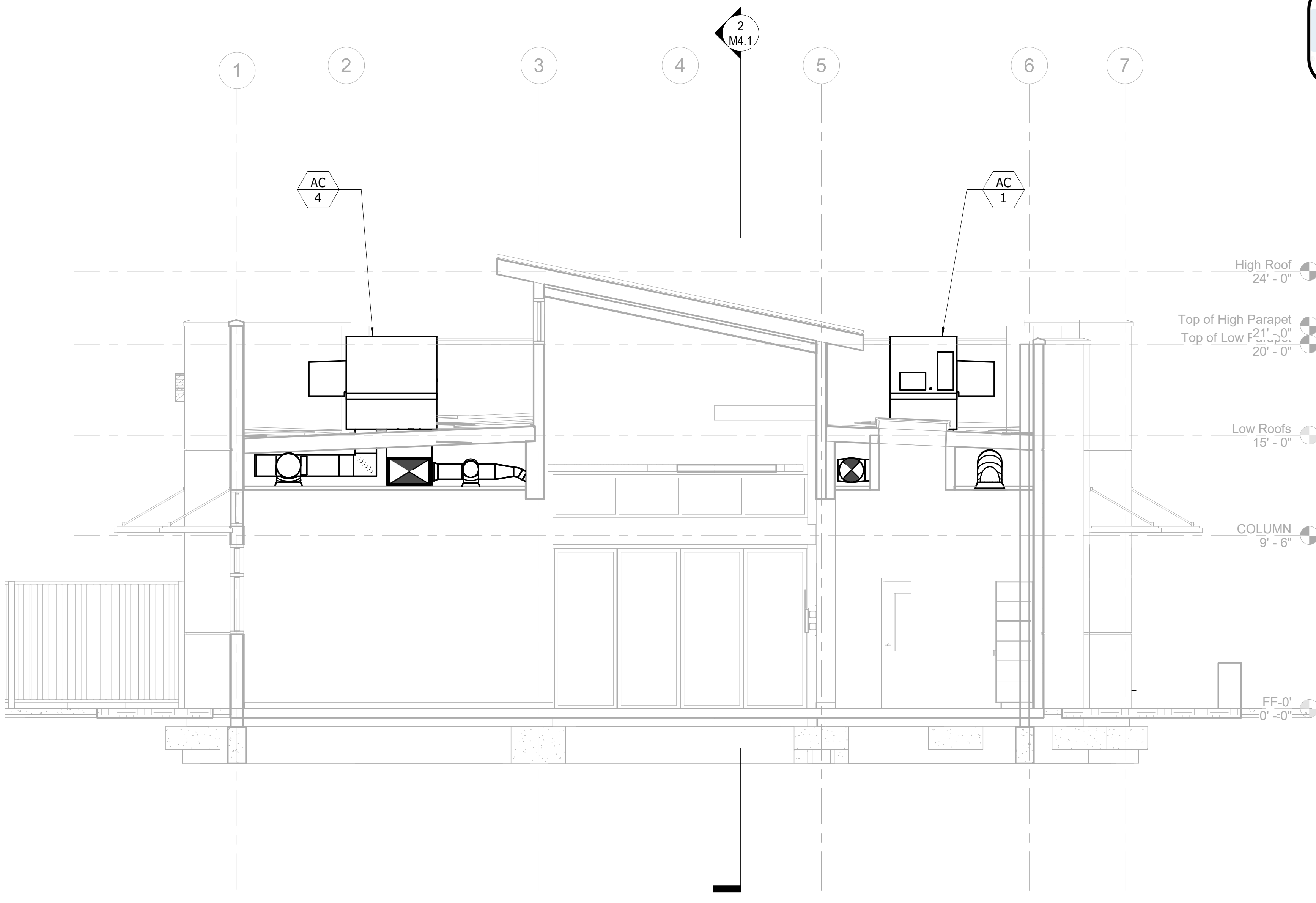
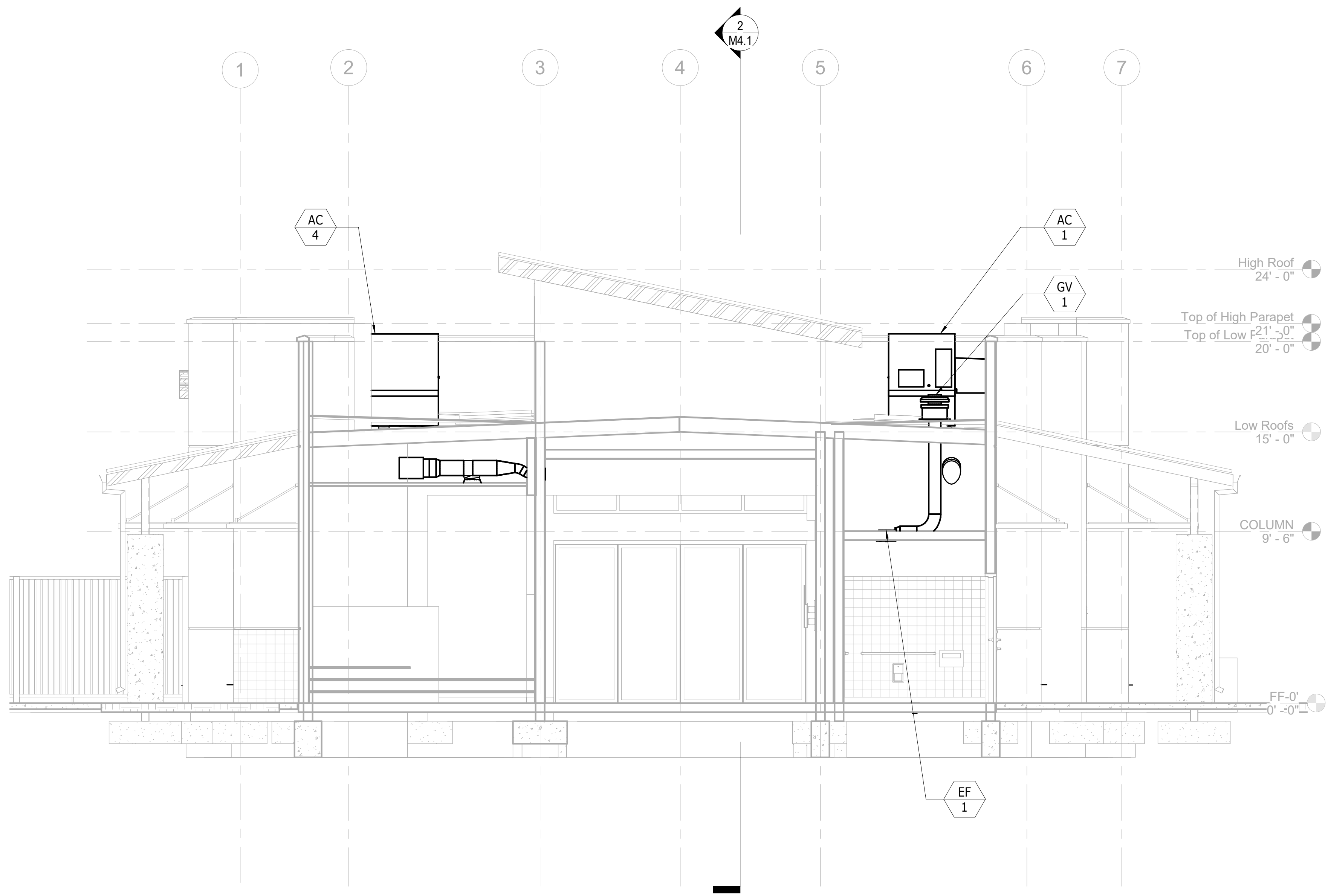
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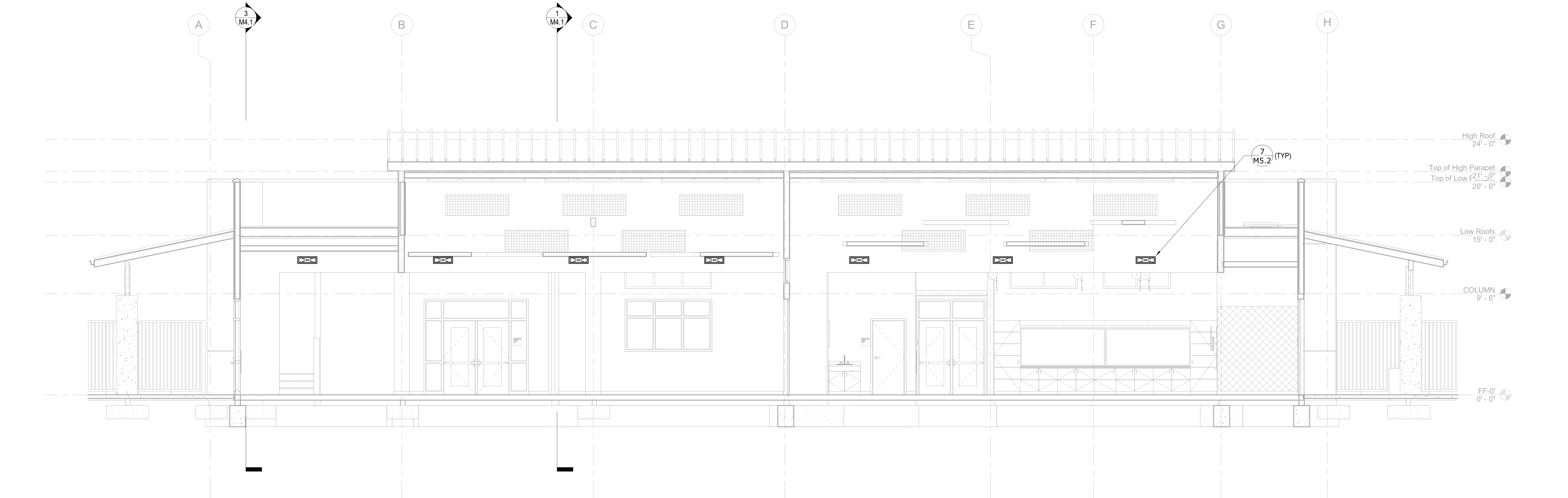
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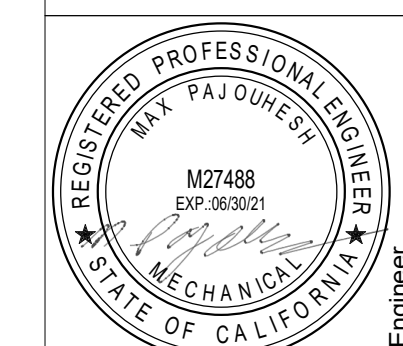
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MECHANICAL SECTION WEST 1/4" = 1'-0" 1

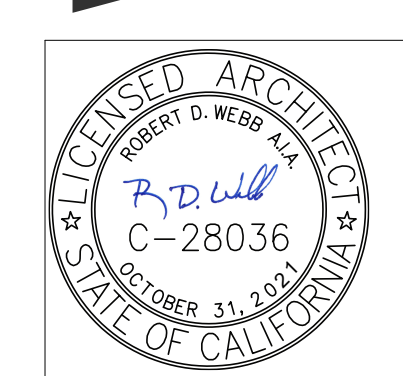


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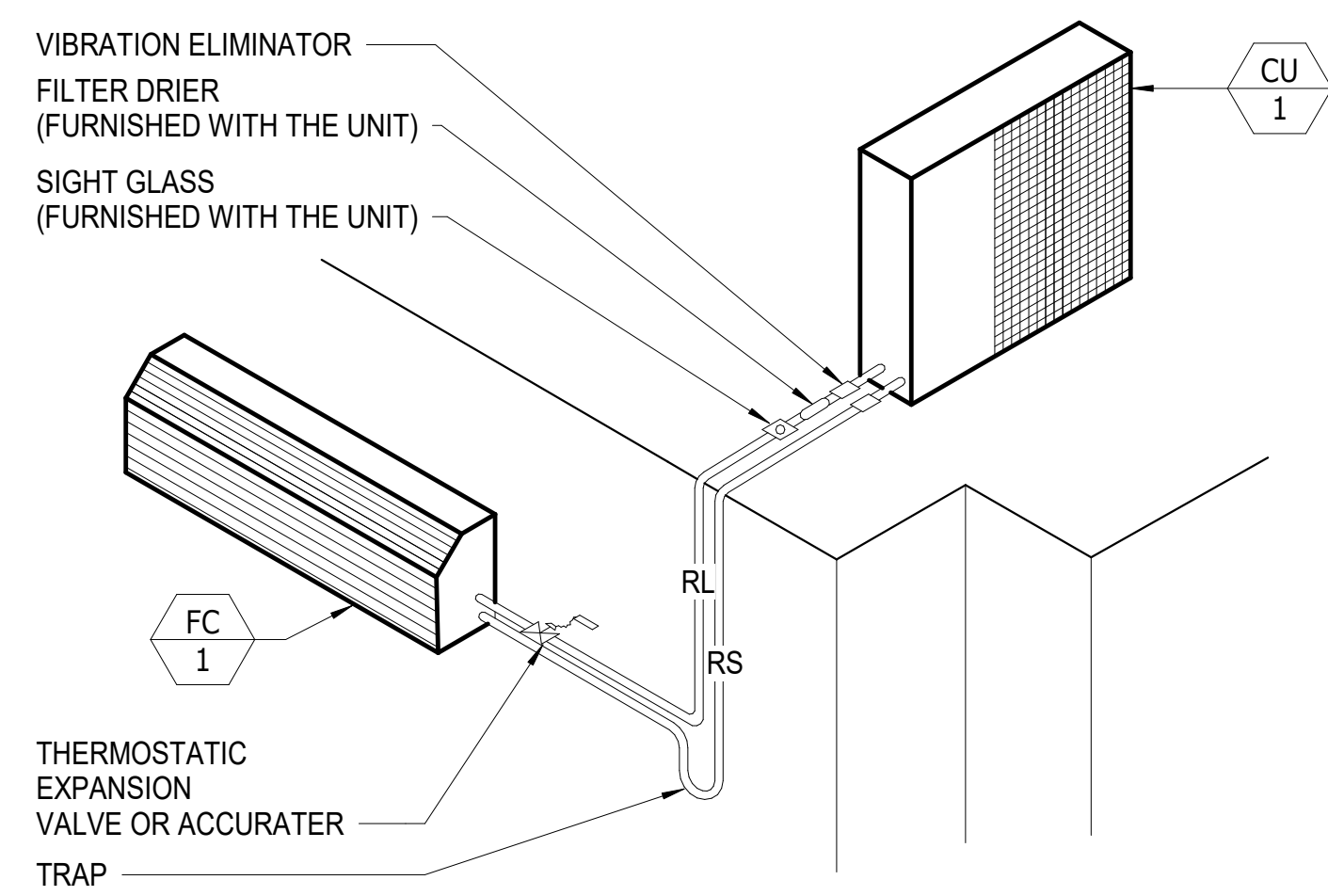


PROSPECT AVENUE ELEMENTARY
 SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

MECHANICAL
 SECTIONS

Drawn: MM
 Checked: MP
 Date:
 Job: SSD-SC-03

M4.1

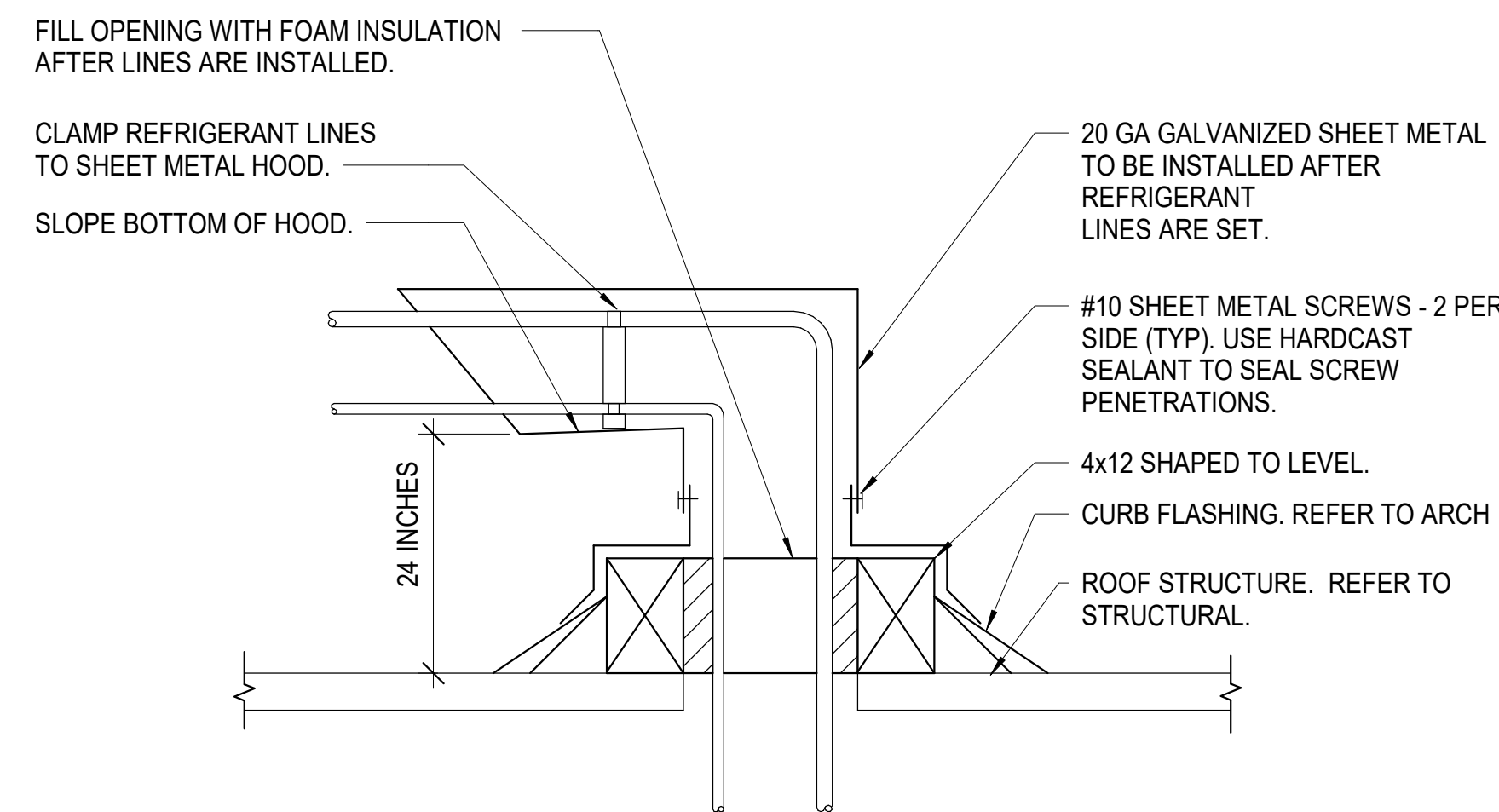


NOTES:

- CONFIRM REQUIRED REFRIGERANT PIPE SIZES WITH MANUFACTURER FOR THE DISTANCE BETWEEN CUS AND FC'S. PROVIDE DOCUMENTATION WITH SUBMITTAL.
- REFRIGERANT PIPE INSULATION R VALUE SHALL COMPLY WITH CALIFORNIA ENERGY STANDARD YEAR 2016, TABLE 120.3-A FOR THE FLUID TEMPERATURE RANGE. THIS REQUIREMENT SUPERSEDES SPECIFICATION.

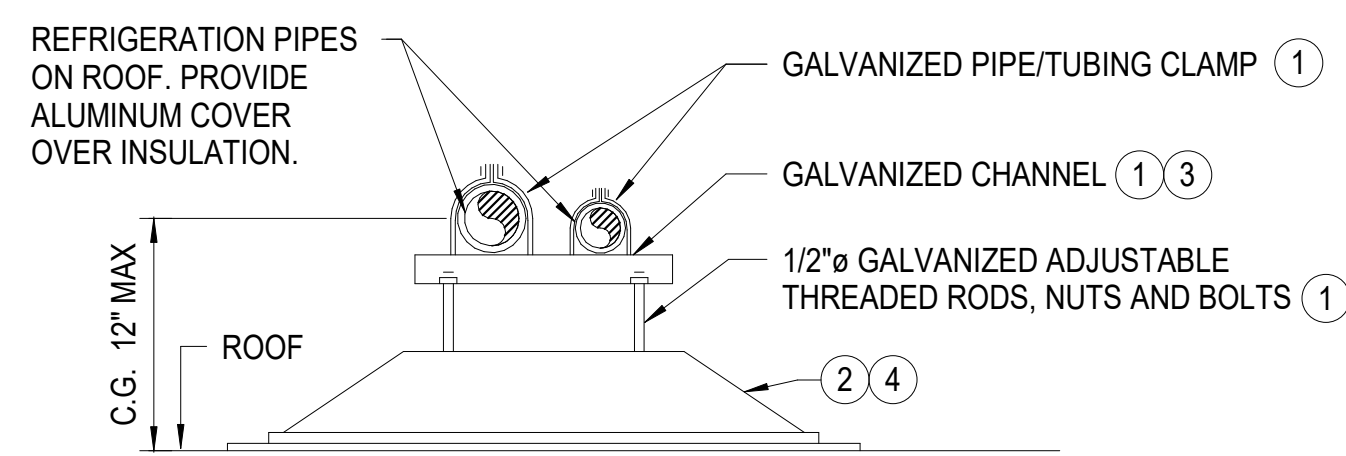
9 REFRIGERATION PIPING

MS.1 SCALE: NTS



11 REFRIGERANT PIPING ROOF PENETRATION

MS.1 SCALE: NTS

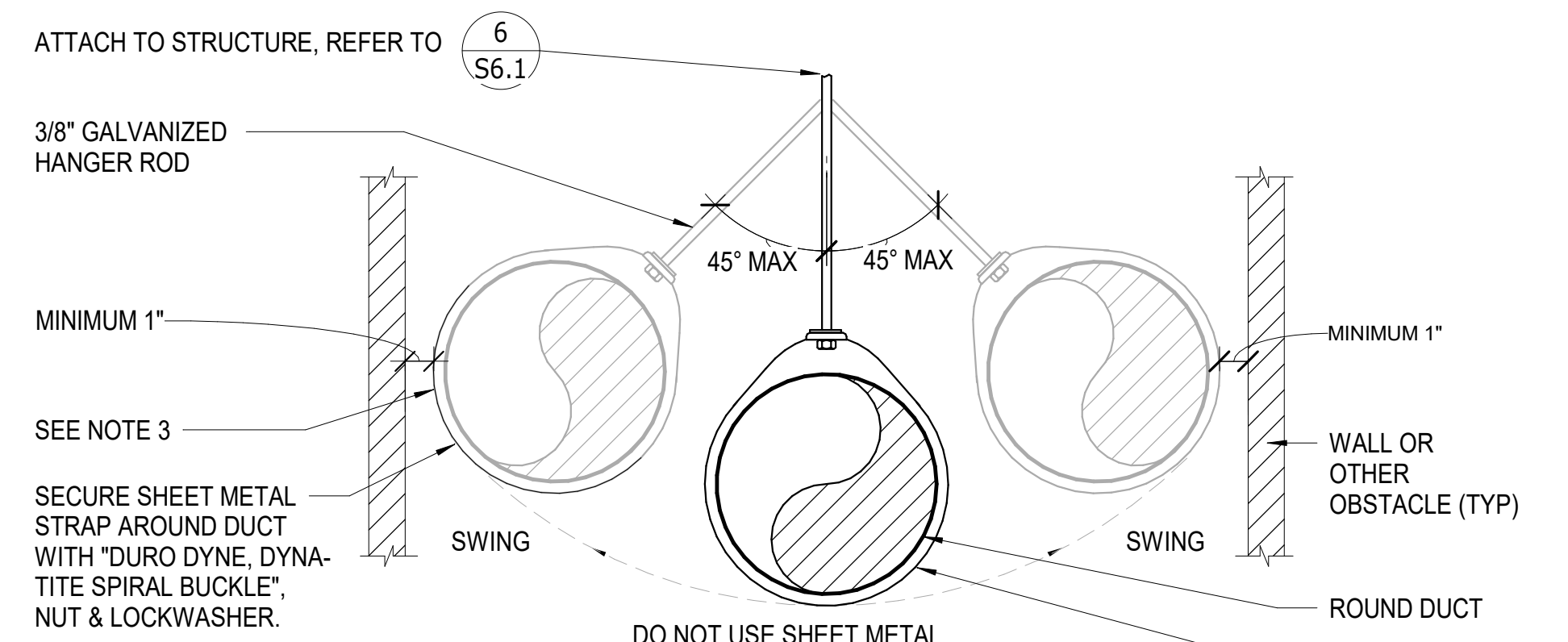


NOTES:

- UNISTRUT, 12 GA (OR EQUAL). TOUCH UP ALL FIELD CUT WITH ZINC RICH PAINT.
- SUPPORT ASSEMBLY SHALL BE PP10-C WITH FLEXCOM DOUBLE SIDED ADHESIVE TAPE INSTALL PER MANUFACTURER'S GUIDELINES.
- ADJUSTABLE SUPPORT.
- PROVIDE SUPPORTS AT 72" ON CENTER AND AT ELBOWS AND FITTINGS.

12 ROOF REFRIGERATION PIPE SUPPORT

MS.1 SCALE: NTS

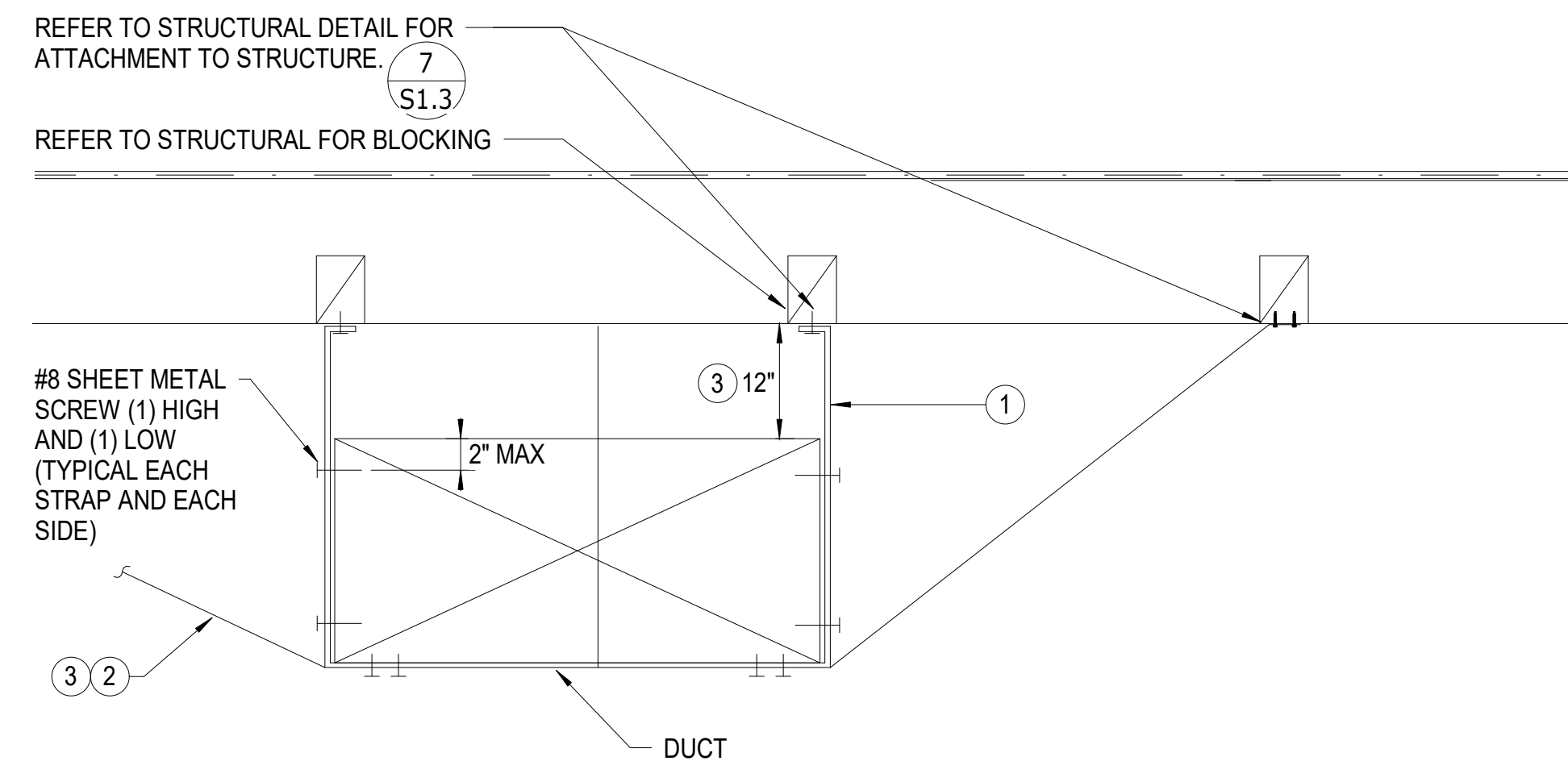


NOTES:

- SEISMIC BRACING NOT REQUIRED IF TOP OF DUCT TO ANCHORAGE TO BUILDING STRUCTURE IS 12" MAX.
- HANGER SPACING MAX 10'.
- ALLOW FOR DUCT SWING AND KEEP MIN 1" BETWEEN EDGE OF THE SWINGING DUCT AND ANY OBSTACLE (DUCT, WALL, EQUIPMENT, ETC.)
- REGARDLESS OF LENGTH OF HANGER ROD, PROVIDE TRANSVERSE BRACE AT ALL ELBOWS AND THE END OF EACH DUCT RUN TO ATTACH TO STRUCTURE AS SHOWN FOR HANGER RODS MORE THAN 12' IN LENGTH.

FOR DUCT ADJACENT TO WALL AND HANGER RODS 12" OR LESS IN LENGTH

MS.1 SCALE: NTS

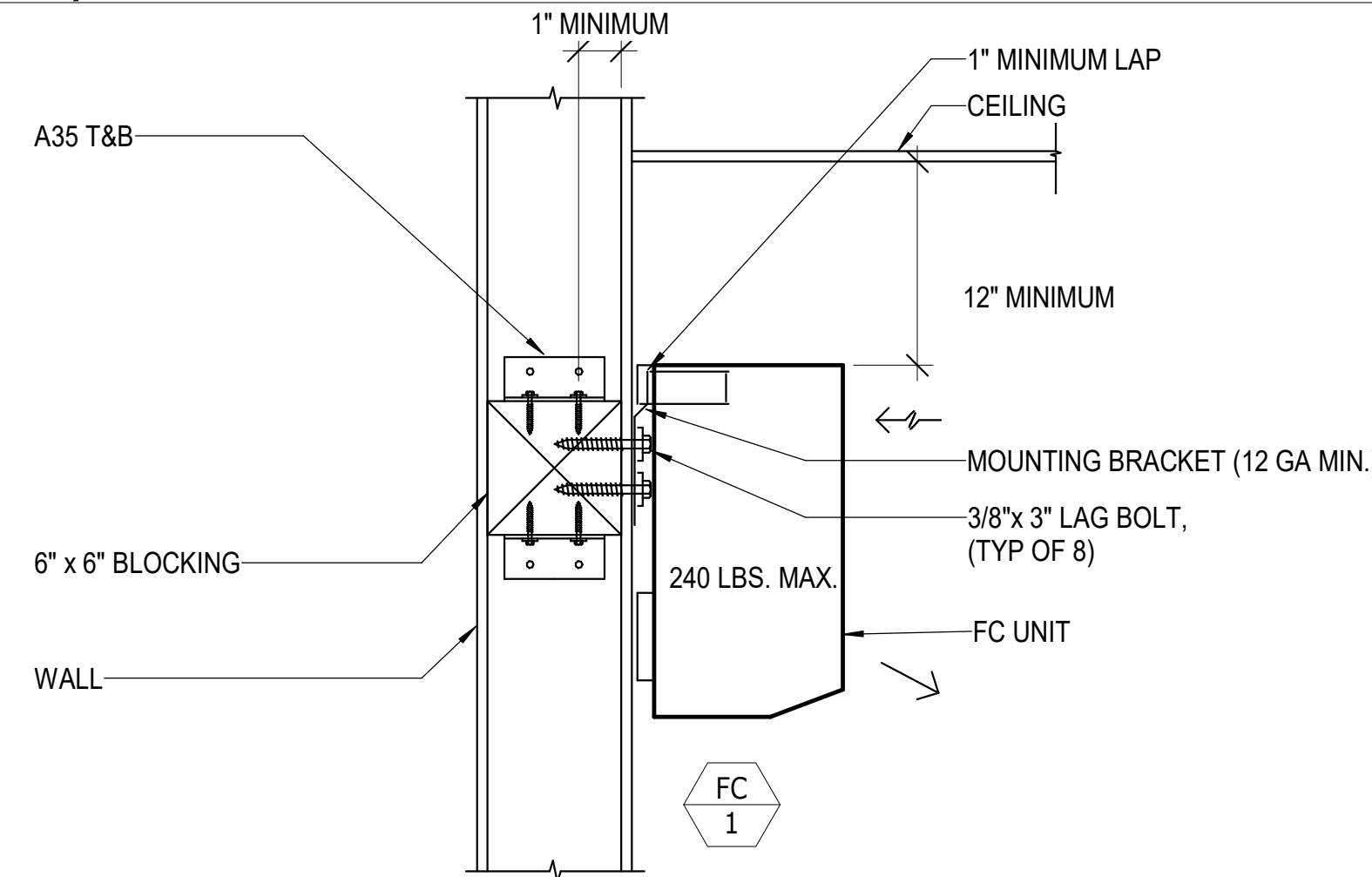


NOTES:

- 1"X18 GA SHEET METAL HANGER AT MAXIMUM 10 FEET ON CENTER. IN ADDITION PROVIDE AT THE ELBOWS, TEES, END OF RUNS AND BOTTOM OF RISERS.
- 1"X18 GA SHEET METAL SEISMIC BRACING. PROVIDE TRANSVERSE BRACING AT MAXIMUM 30 FEET ON CENTER, AND PROVIDE LONGITUDINAL BRACING AT MAXIMUM 60 FEET ON CENTER. IN ADDITION PROVIDE AT ELBOWS, TEES, AND BOTTOM OF RISERS.
- PROVIDE 1"X18 GA SHEET METAL VERTICAL HANGERS AND SEISMIC BRACING IF TOP OF DUCT IS MORE THAN 12" FROM ATTACHMENT TO STRUCTURE.

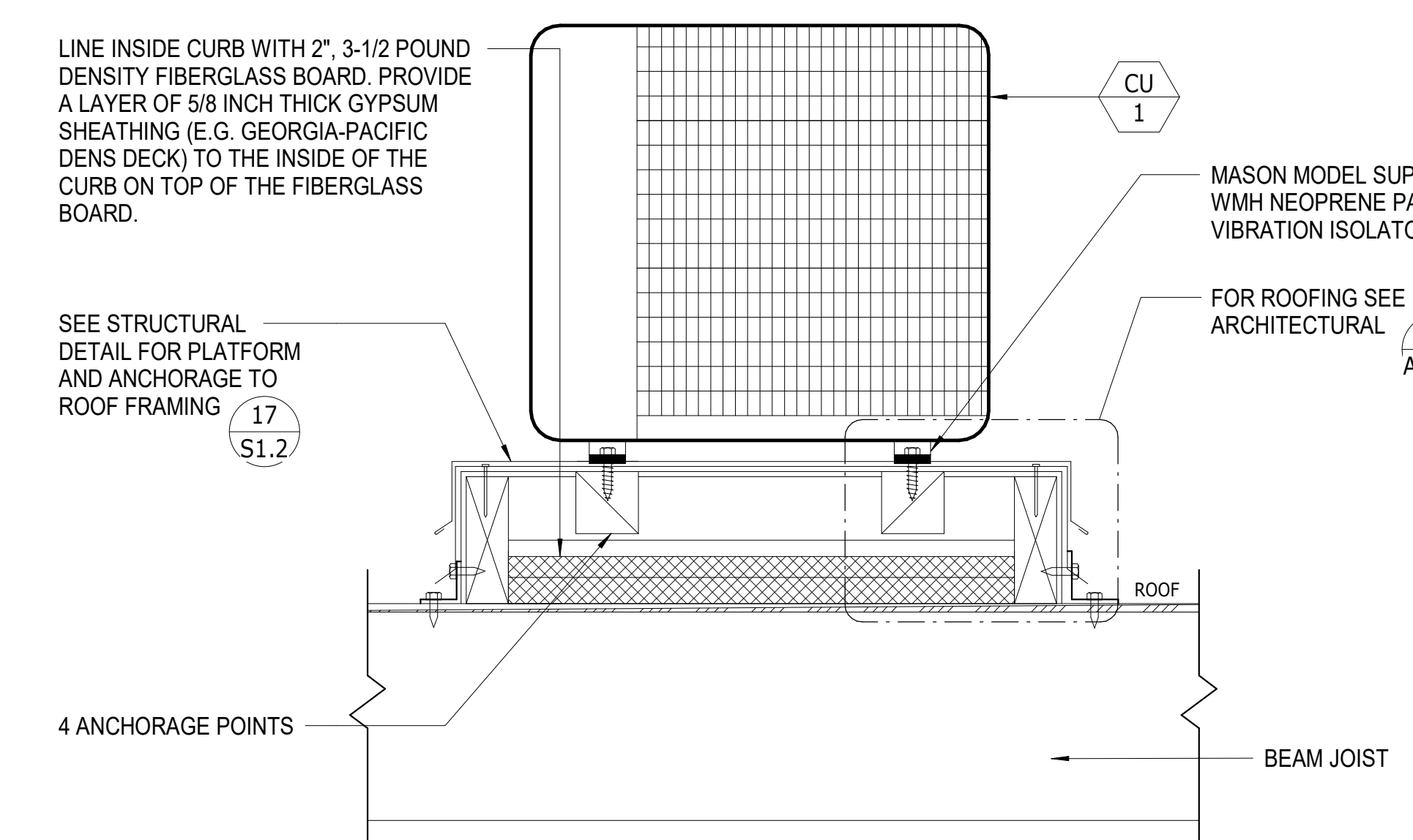
6 SQUARE / RECTANGULAR DUCT SUPPORT DETAIL

MS.1 SCALE: NTS



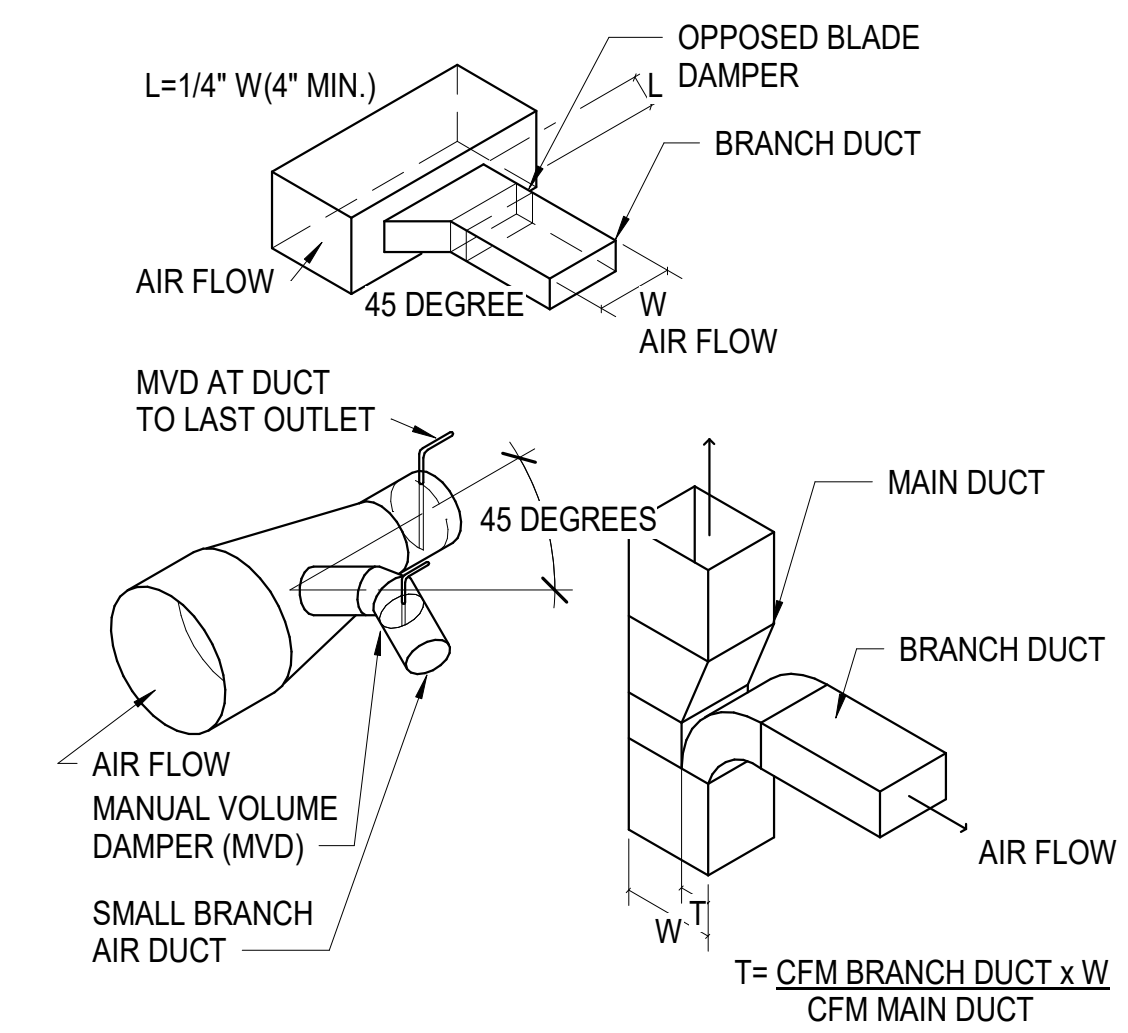
7 DUCTLESS FC MOUNTING DETAIL

MS.1 SCALE: NTS



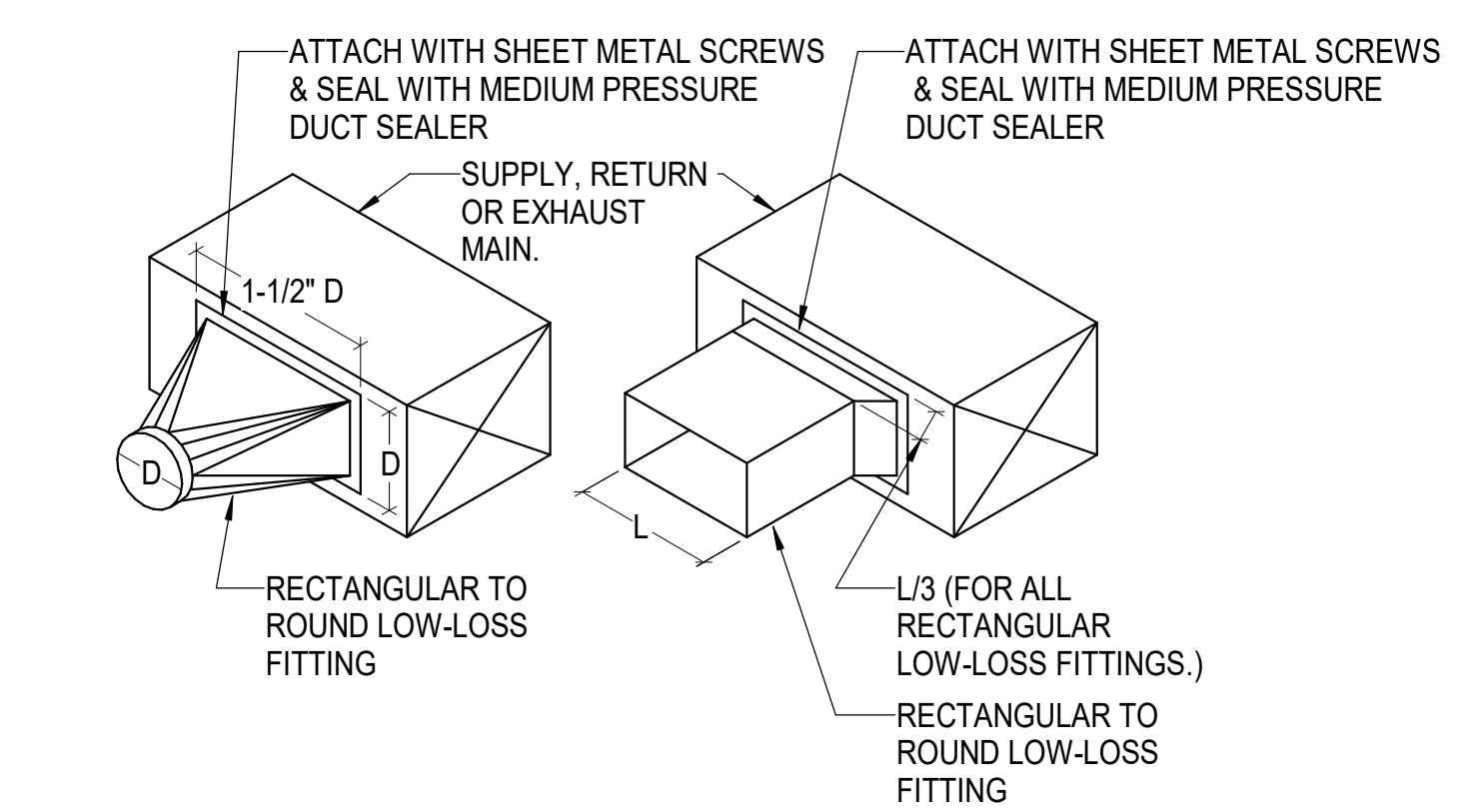
8 CONDENSING UNIT MOUNTING

MS.1 SCALE: NTS



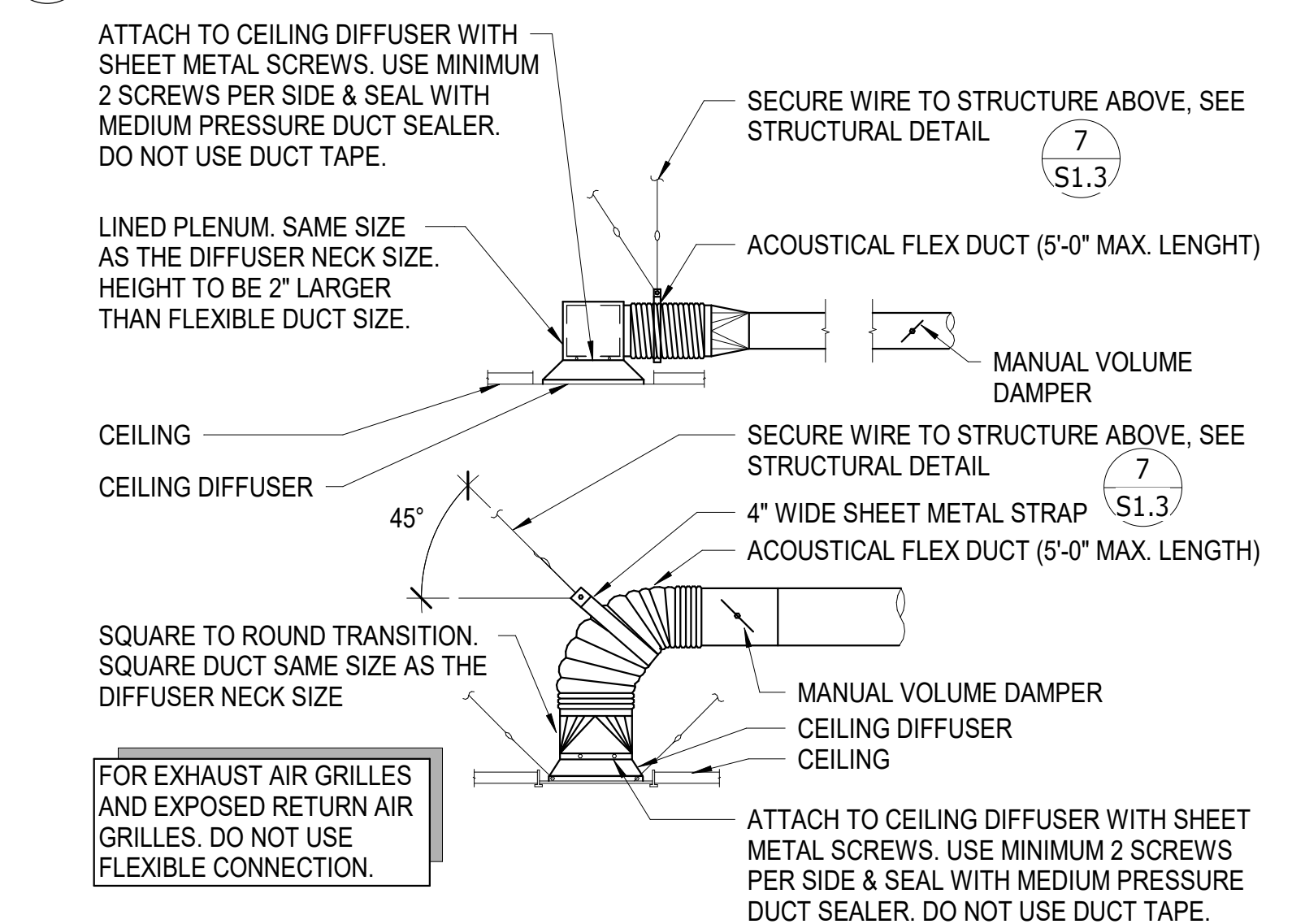
1 BRANCH DUCT TAKE-OFF

MS.1 SCALE: NTS



2 LOW-LOSS FITTING

MS.1 SCALE: NTS

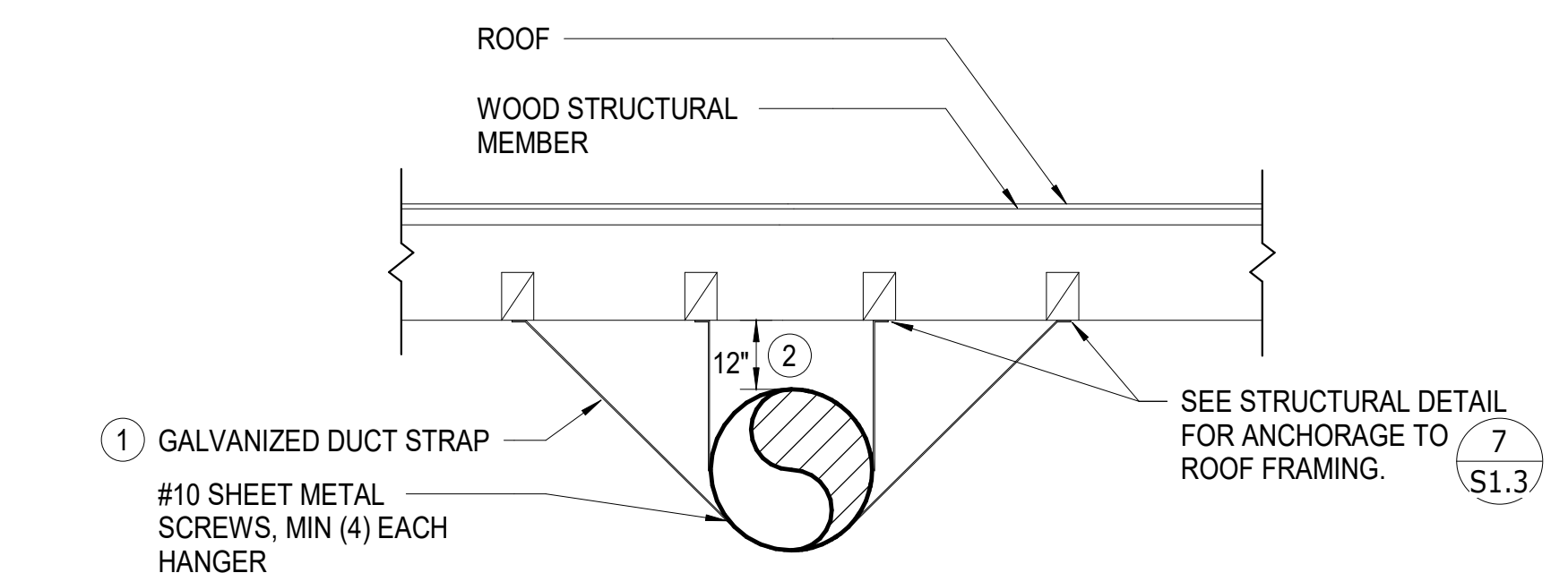


NOTE:

- FLEXIBLE DUCT SHALL COMPLY WITH STATE FIRE MARSHALL CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSULATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED.
- SUPPLY AIR DIFFUSERS SHALL BE LOCATED A MINIMUM OF 3'-0" FROM SMOKE DETECTORS. PRIOR TO INSTALLATION COORDINATE EXACT LOCATION.

3 CEILING DIFFUSER CONNECTION

MS.1 SCALE: NTS



NOTES:

- 1"X18 GA SHEET METAL HANGER AT MAXIMUM 10 FEET ON CENTER. IN ADDITION PROVIDE AT THE ELBOWS, TEES, END OF RUNS AND BOTTOM OF RISERS.
- IF TOP OF DUCT IS MORE THAN 12" FROM ATTACHMENT TO STRUCTURE, PROVIDE 1"X18 GA SHEET METAL VERTICAL AND SEISMIC BRACING. PROVIDE TRANSVERSE BRACING AT MAXIMUM 30 FEET ON CENTER, AND LONGITUDINAL AT 60 FEET ON CENTER. IN ADDITION PROVIDE VERTICAL AND SEISMIC BRACING AT ELBOWS, TEES, END OF RUNS, AND BOTTOM OF RISERS.

4 ROUND DUCT SUPPORT CONCEALED

MS.1 SCALE: NTS

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M27488
EXP. 06/30/21
Engineer

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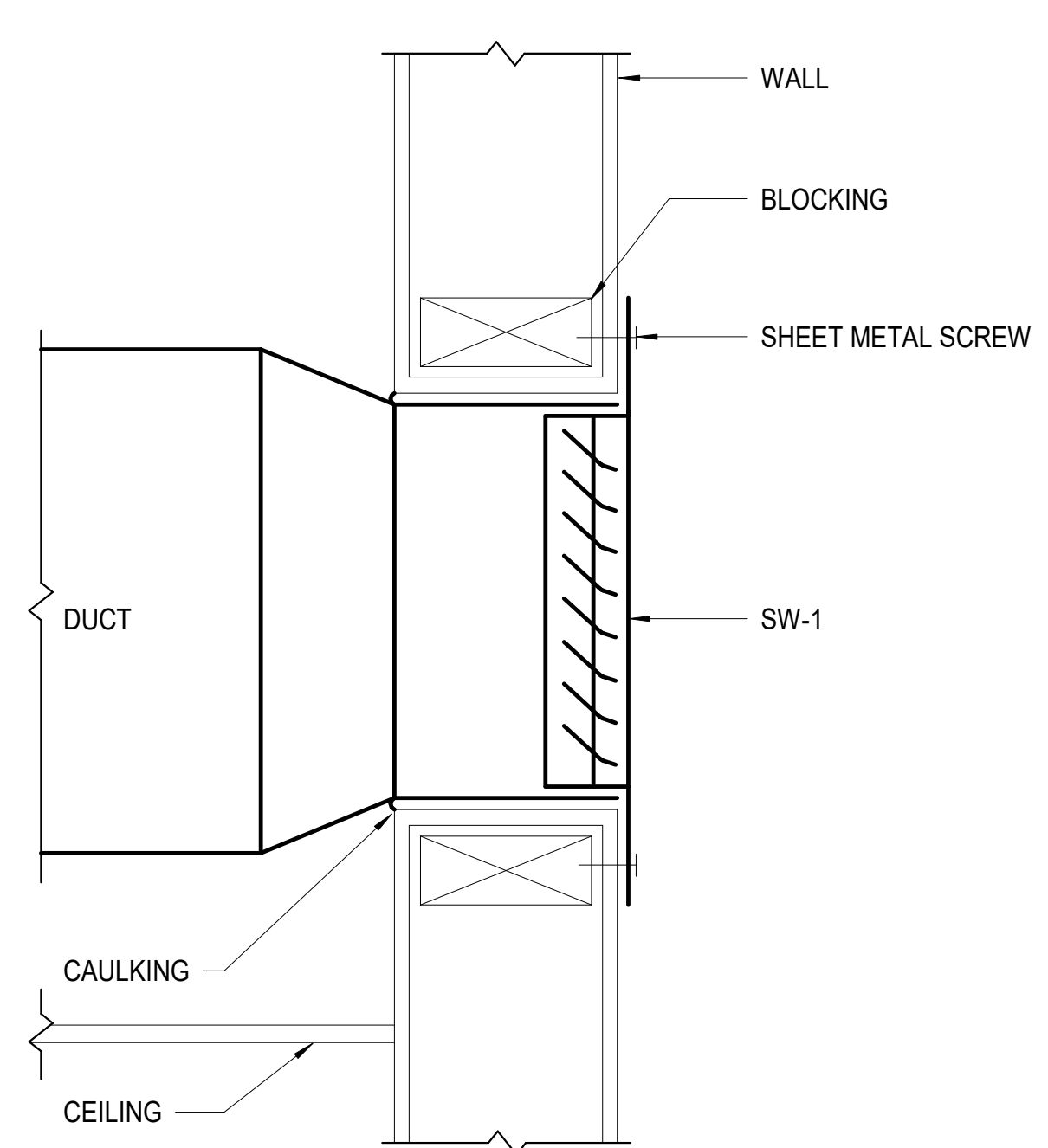
LICENSED ARCHITECT
PROBET D. WEBB, AIA
C-28036
EXPIRES 31.12.2024
STATE OF CALIFORNIA

PROSPECT AVENUE ELEMENTARY
SCHOOL
LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

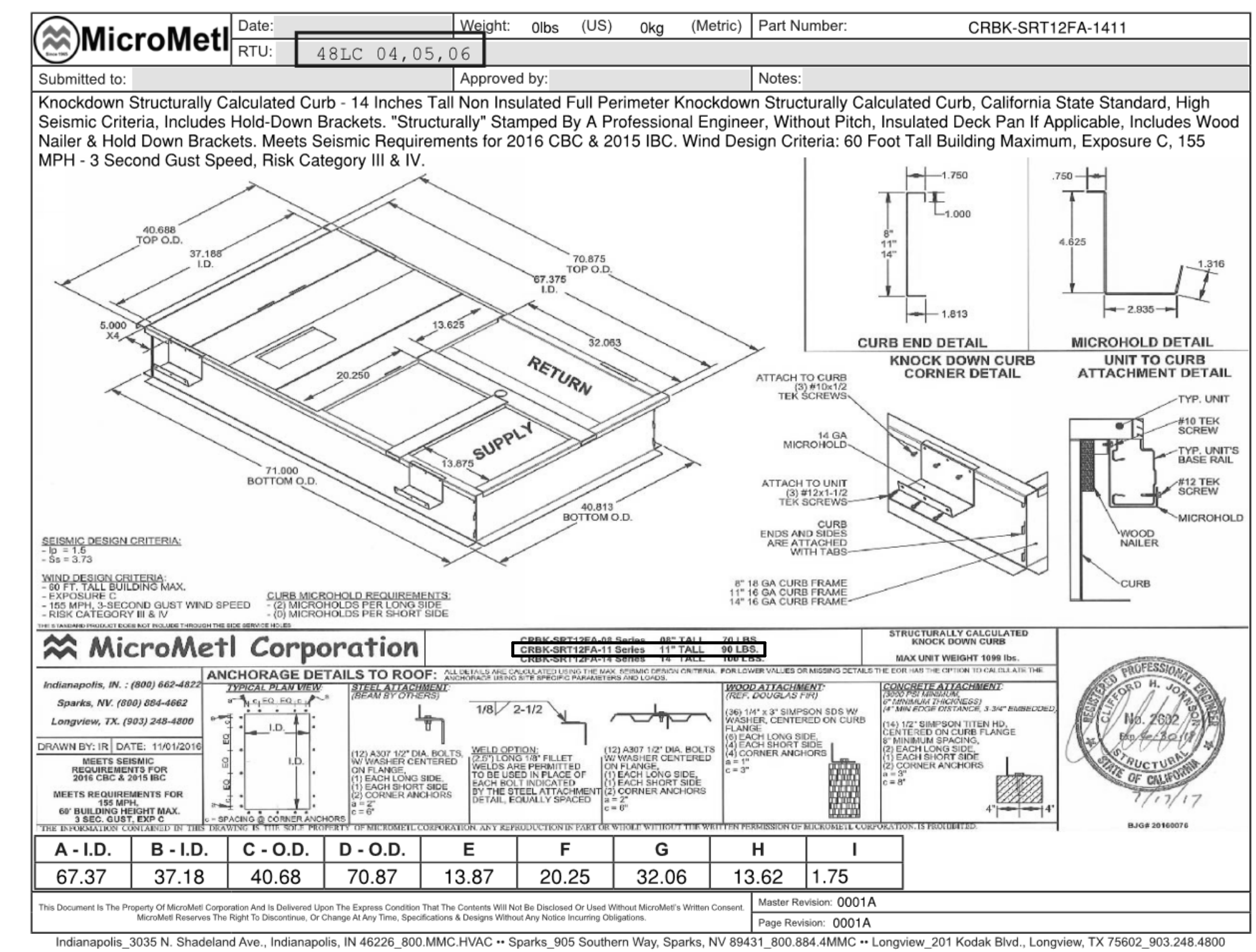
**MECHANICAL
DETAILS**

Drawn: MM
Checked: MP
Date:
Job: SSD-SC-03

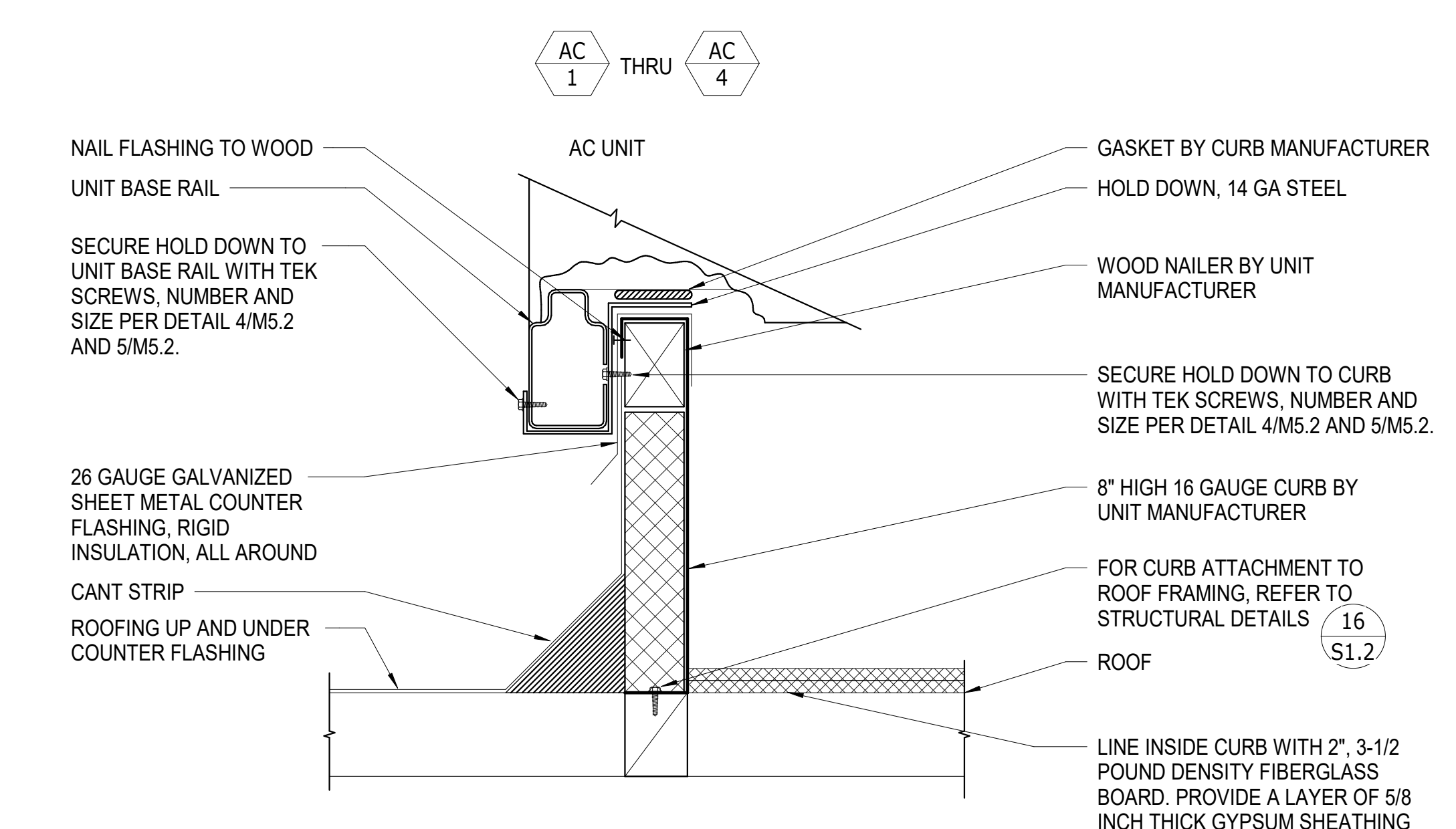
M5.1



7 WALL DIFFUSER MOUNTING DETAIL
 M5.2 SCALE: NTS

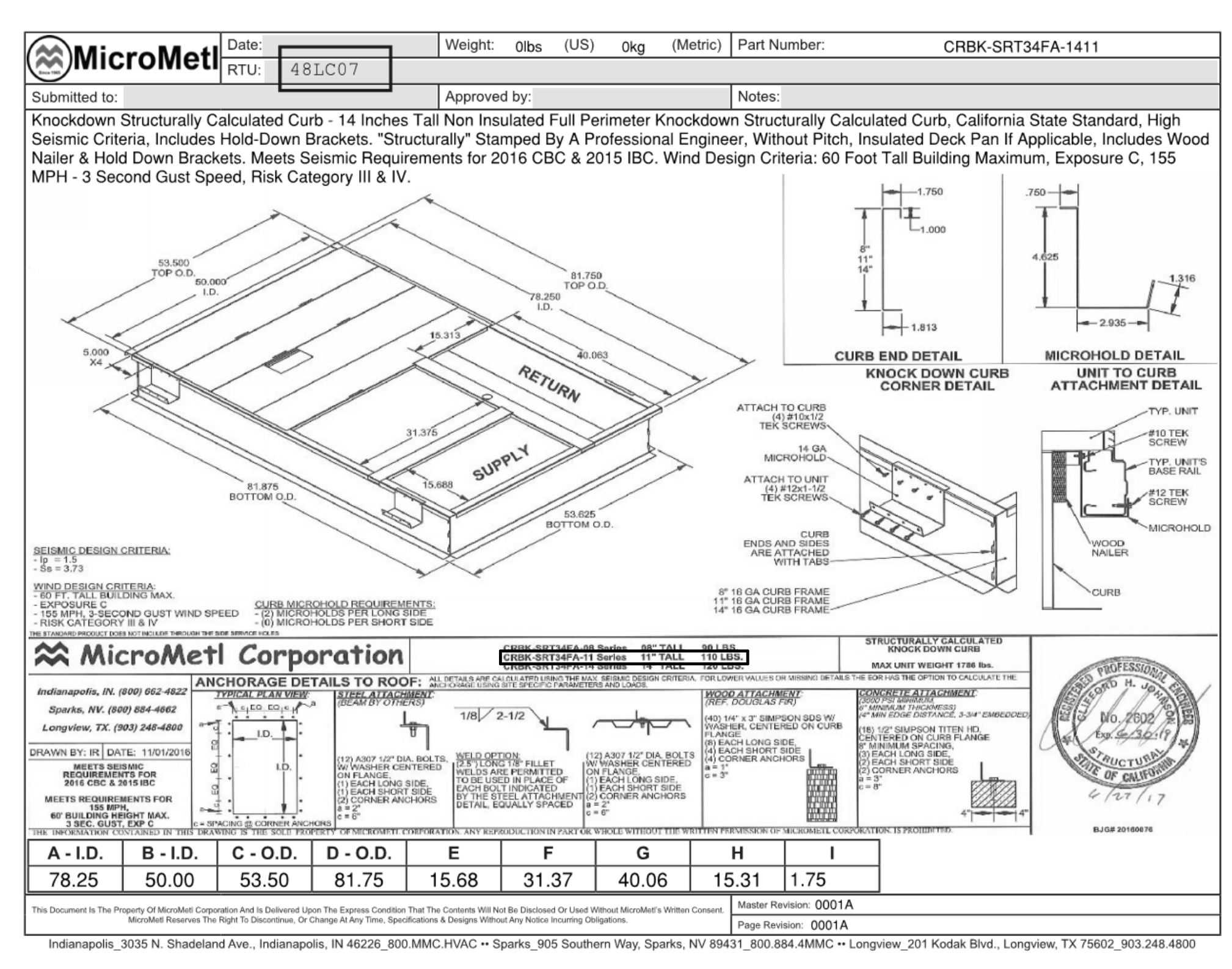


4 ROOFTOP AC UNIT CURB CUT-SHEET (TYPICAL OF AC-1 AND AC-2)
 M5.2 SCALE: NTS

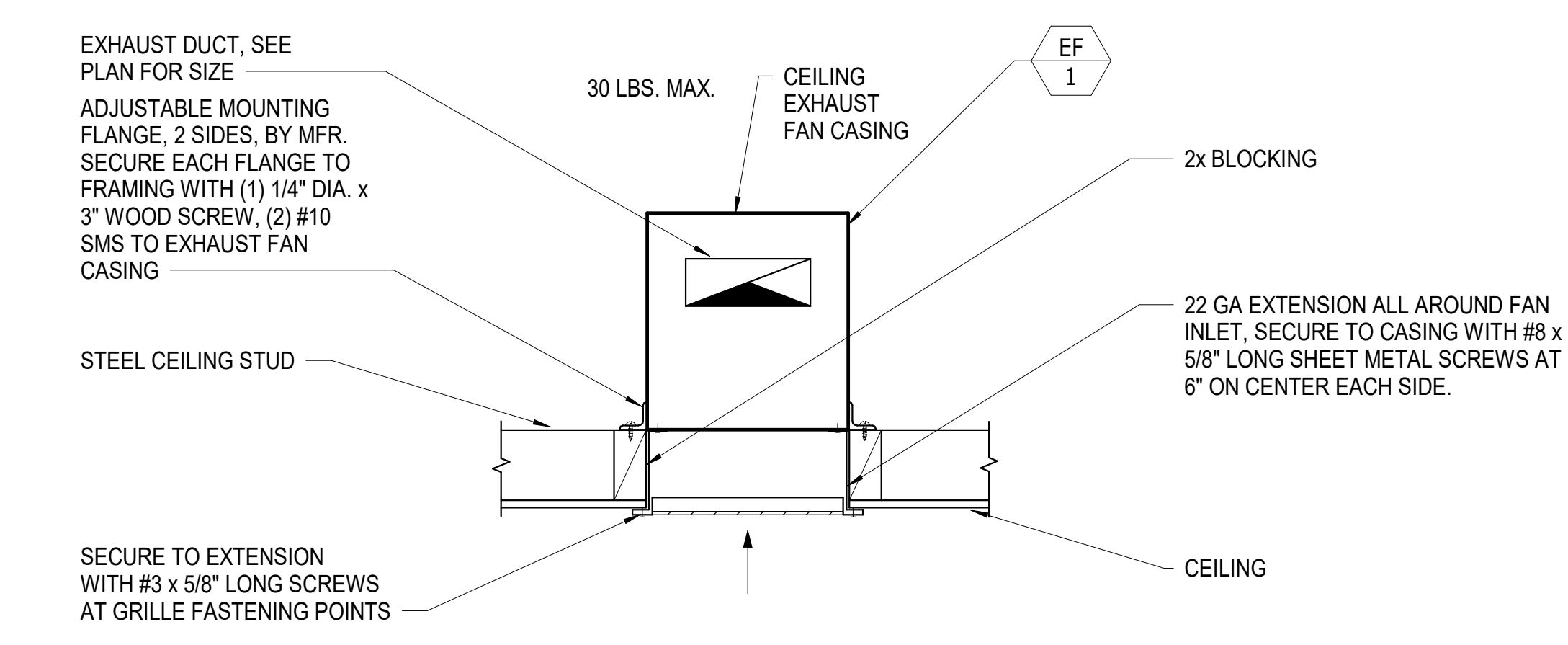


- NOTES:
- PROVIDE DUCT HANGERS WITH SEISMIC BRACING AT THE BOTTOM OF ALL DUCT RISERS.
 - IN ADDITION TO THE SEALED CURB SYSTEM, COMPLETELY SEAL AROUND ALL DUCT PENETRATIONS THROUGH ROOF ASSEMBLY.
 - PROVIDE LINED DUCT AND LAG/WRAP SUPPLY AND RETURN DUCT DROPS THRU ROOF. PROVIDE "KINETICS" KNM-100ALQ OR EQUAL.

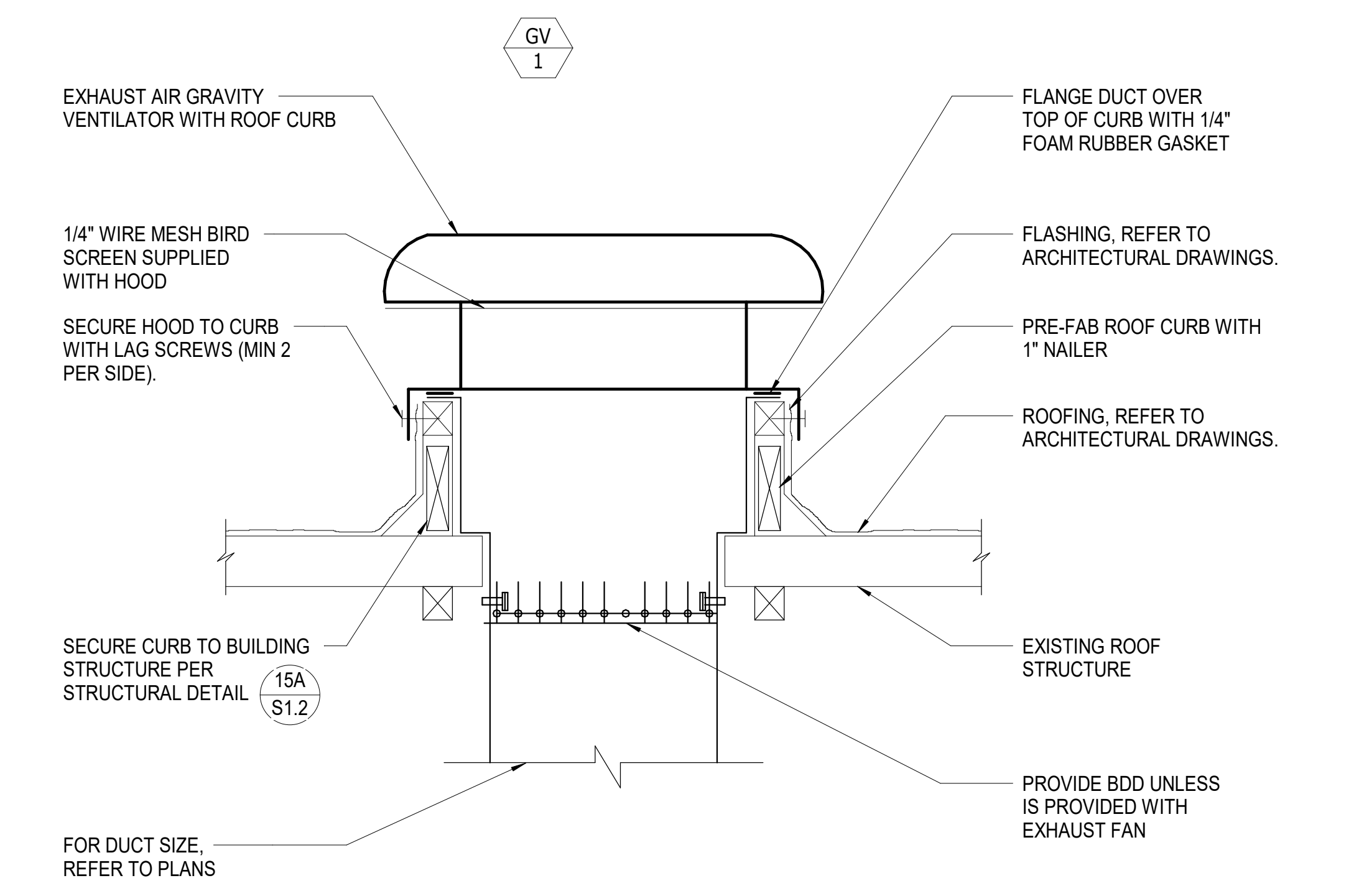
1 ROOFTOP AC UNIT MOUNTING - (TYPICAL)
 M5.2 SCALE: NTS



5 ROOFTOP AC UNIT CURB CUT-SHEET (TYPICAL OF AC-3 AND AC-4)
 M5.2 SCALE: NTS

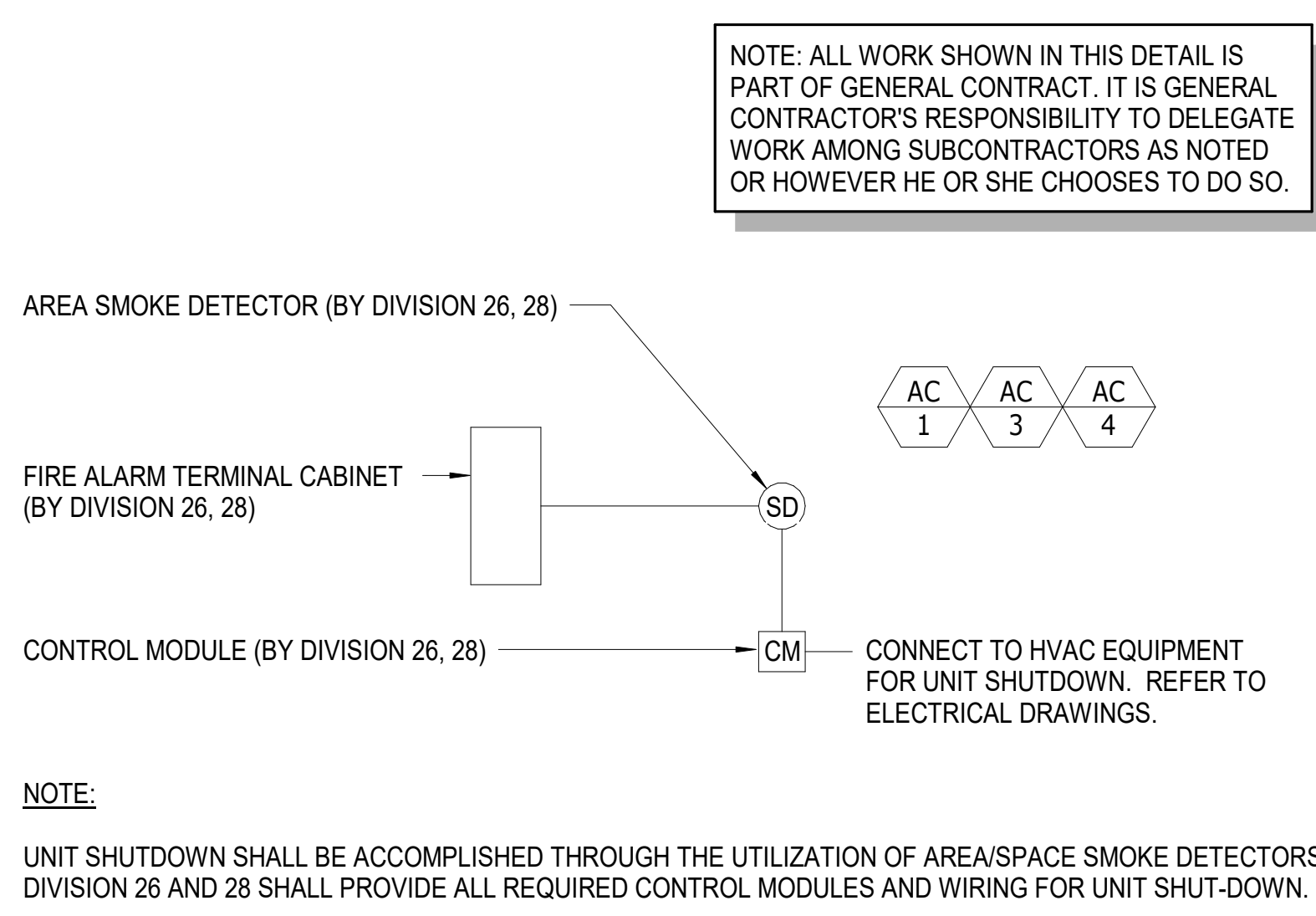


2 CEILING EXHAUST FAN MOUNTING
 M5.2 SCALE: NTS

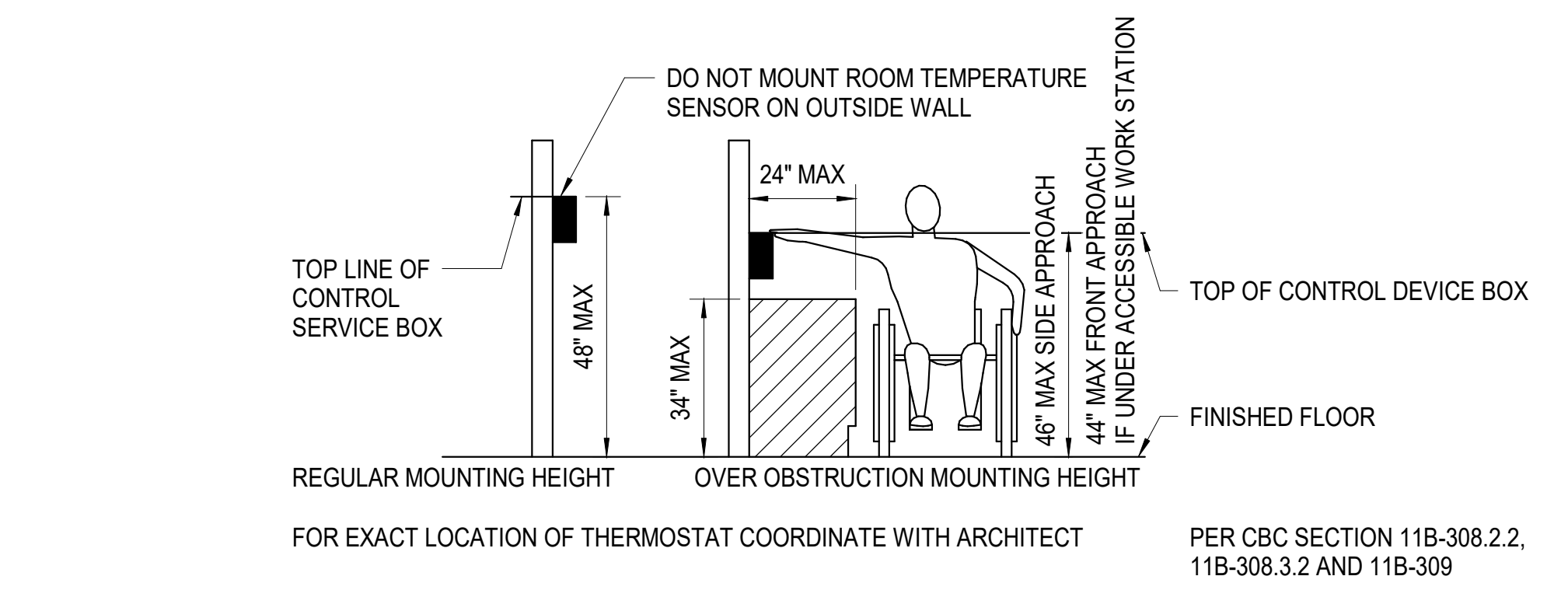


3 EXHAUST DUCT THRU ROOF
 M5.2 SCALE: NTS

8 NOT USED
 M5.2 SCALE: NTS



9 AREA DETECTION AND UNIT SHUT DOWN
 M5.2 SCALE: NTS



6 MOUNTING HEIGHT OVER OBSTRUCTION
 M5.2 SCALE: NTS

Revision Date

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PROSPECT AVENUE ELEMENTARY SCHOOL
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 SANTEE SCHOOL DISTRICT

REGISTERED ARCHITECT
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 No. 28036
 Exp. 03/31/2014
 Architect

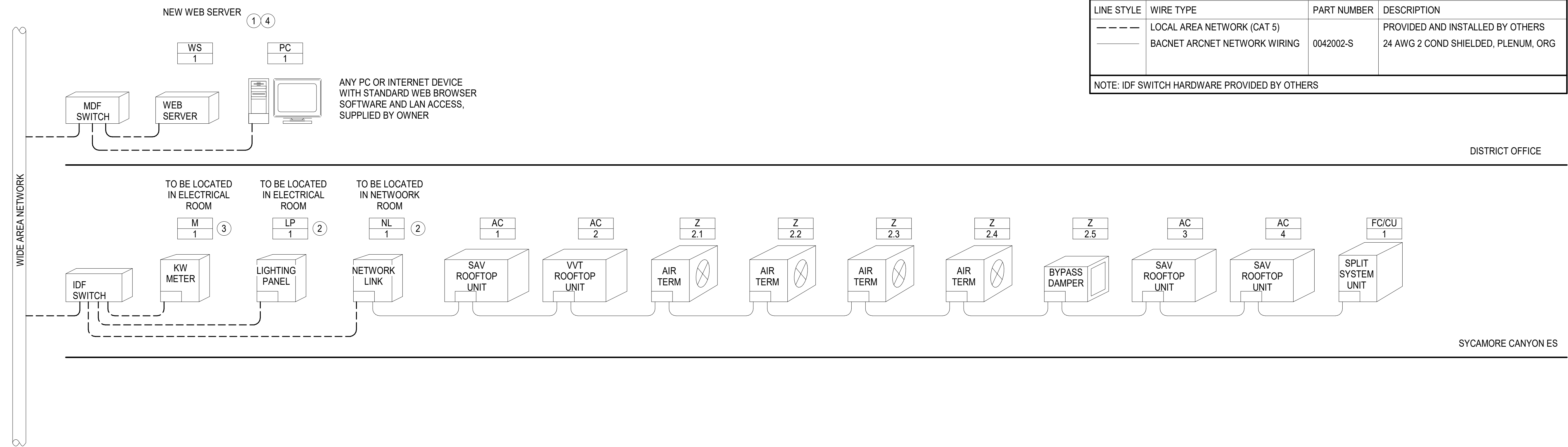
MECHANICAL DETAILS

Drawn: MM
 Checked: MP
 Date:
 Job: SSD-SC-03
 M5.2

KEYNOTES

- ① I-VU PRO SOFTWARE TO INCLUDE ADR SIGNAL SOFTWARE TO RECEIVE SIGNAL FROM LOCAL UTILITY.
- ② POWER FOR NETWORK PANEL FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- ③ ELECTRICAL METER TO BE FURNISHED BY THE CONTROLS CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- ④ ALTERNATIVE MANUFACTURES:

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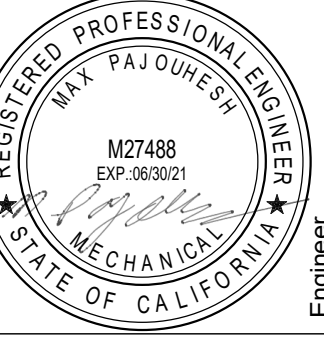


WIRE LEGEND			
LINE STYLE	WIRE TYPE	PART NUMBER	DESCRIPTION
---	LOCAL AREA NETWORK (CAT 5)		PROVIDED AND INSTALLED BY OTHERS
---	BACNET ARCNET NETWORK WIRING	0042002-S	24 AWG 2 COND SHIELDED, PLENUM, ORG

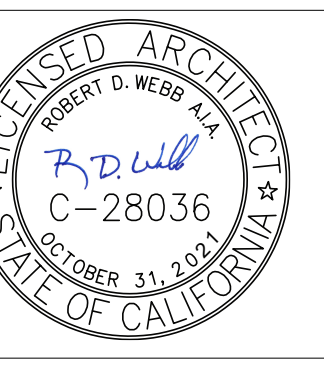
NOTE: IDF SWITCH HARDWARE PROVIDED BY OTHERS

1 OVERALL CONTROL DIAGRAM
 M6.1 SCALE: NTS

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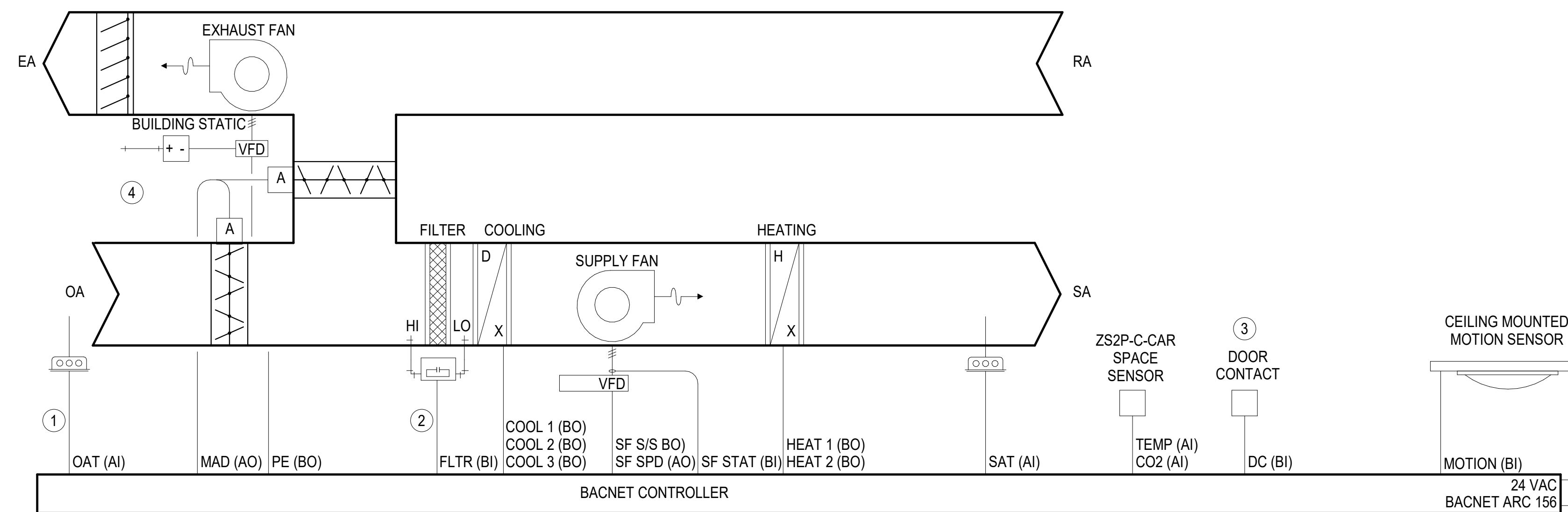
**OVERALL CONTROL
 DIAGRAM PLAN**

Drawn: MM
 Checked: MP
 Date:
 Job: SSD-SC-03

KEYNOTES

- ① TWO OUTDOOR AIR TEMPERATURE SENSORS PER SITE.
- ② DIFFERENTIAL PRESSURE SWITCH ON ONE OF THE AC UNITS ONLY.
- ③ ALL DOORS OPENING TO OUTSIDE SHALL BE EQUIPPED WITH SENSOR TO SHUT-DOWN THE AC UNIT. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND QUANTITY.
- ④ PROVIDE ONE SPACE PRESSURE SENSOR PER AC UNIT.

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SEQUENCE OF OPERATION

OCCUPANCY
 THE UNIT WILL FOLLOW A USER DEFINED BACNET SCHEDULE CONFIGURATION FROM THE L-VU SERVER ALONG WITH A LOCAL PASSIVE INFRARED (PIR) MOTION SENSOR. DURING SCHEDULED OCCUPIED PERIODS, WHEN MOTION IS DETECTED IN THE OCCUPIED SPACE BY THE PIR, THE UNIT WILL OPERATE IN THE OCCUPIED MODE. IF DURING OCCUPIED PERIODS, MOTION HAS NOT BEEN DETECTED FOR 30 MINS. (ADJ.) THE UNIT SHALL SET BACK THE OCCUPIED HEATING & COOLING SETPOINTS BY 3°F (ADJ.) AND THE FAN WILL OPERATE WHEN THE SPACE TEMPERATURE EXCEEDS THE STANDBY SETPOINTS.

UNOCCUPIED MODE
 THE UNIT WILL MAINTAIN AN UNOCCUPIED COOLING SETPOINT OF 95°F AND AN UNOCCUPIED HEATING SETPOINT OF 45°F. DURING THE UNOCCUPIED TIME, EACH PRESS OF THE OVERRIDE BUTTON LOCATED ON THE ROOM SPACE SENSOR WILL ADD 30 MINS (ADJ.) OF OCCUPIED TIME FOR UP TO 4 HOURS (ADJ.). AFTER THE TIME HAS EXPIRED THE UNIT WILL RETURN TO THE UNOCCUPIED MODE.

INDOOR FAN - VARIABLE SPEED
 DURING OCCUPIED PERIODS, THE FAN SHALL OPERATE CONTINUOUSLY. DURING UNOCCUPIED PERIODS, THE FAN SHALL OPERATE WHEN THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED HEATING OR COOLING SETPOINTS. THE FAN OPERATES AT A VARIABLE SPEED TO MEET THE LOAD CONDITIONS AND SAT SAFETY REQUIREMENTS. FAN SPEED IS NOT CONTROLLED TO MAINTAIN DUCT STATIC PRESSURE.

HEATING MODE
 WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT OF 68°F (ADJ.), UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE. EACH STAGE OF HEATING HAS A FIXED 1 MINUTE MINIMUM ON-TIME, AND 1 MINUTE OFF TIME.

COOLING MODE
 WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT OF 76°F (ADJ.), UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE MECHANICAL COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE. EACH COMPRESSOR OUTPUT HAS A FIXED 3 MINUTE MINIMUM ON-TIME, AND 5 MINUTE OFF TIME.

DOOR SWITCH INTERLOCK
 UPON OPENING ANY EXTERIOR DOOR FOR A DURATION OF 5 MINUTES (ADJ.), THE MECHANICAL HEATING AND COOLING WILL BE DISABLED. ECONOMIZER COOLING, IF AVAILABLE, WILL CONTINUE TO OPERATE.

ECONOMIZER
 ECONOMIZER SHALL CLOSE WHEN FAN IS OFF OR DURING A LOSS OF POWER. DURING OCCUPIED HOURS WHEN FAN IS ENERGIZED IN LOW SPEED THE ECONOMIZER SHALL OPEN TO ITS LOW FAN MINIMUM POSITION OF 33% (ADJ.). WHEN THE FAN IS RUNNING IN HIGH SPEED THE ECONOMIZER SHALL OPEN TO ITS HIGH SPEED MINIMUM POSITION OF 20% (ADJ.). DAMPER MINIMUM POSITIONS TO BE DETERMINED BY AIR BALANCER.

WHEN OUTSIDE AIR TEMPERATURE IS BELOW THE HIGH LIMIT OF 73°F (ADJ.), BELOW SPACE TEMPERATURE, AND OCCUPIED SPACE REQUIRES COOLING, ECONOMIZER SHALL OPEN. IF ECONOMIZER AIR IS NOT SUFFICIENT TO MEET THE DEMAND IN THE OCCUPIED SPACE, UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

THE FOLLOWING FAULT DETECTION AND DIAGNOSTIC (FDD) ALARMS SHALL BE SENT THROUGH THE SERVER
 A. AIR TEMPERATURE SENSOR FAILURE
 B. FAILS TO CLOSE
 C. FAILS TO OPEN
 D. STUCK FULLY OPEN
 E. FAILS TO FULLY OPEN

CO2 CONTROL - DEMAND CONTROLLED VENTILATION
 UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN THE SPACE CO2 PPM EXCEEDS THE SETPOINT OF 650 PPM (ADJ.) ABOVE OUTDOOR CO2 LEVEL, THE OUTDOOR AIR DAMPER SHALL MODULATE OPEN TOWARDS A MAXIMUM CO2 POSITION OF 50% (ADJ.). IF NO OUTDOOR AIR CO2 SENSOR IS PRESENT, A VALUE OF 400 PPM IS USED. DAMPER POSITION SETPOINTS TO BE DETERMINED BY AIR BALANCER.

POWER EXHAUST
 THE EXHAUST FAN SHALL BE ENABLED ANYTIME THE SUPPLY FAN IS RUNNING AND THE OUTDOOR AIR DAMPER OPENS MORE THAN 30% (ADJUSTABLE). THE POWER EXHAUST VFD WILL MODULATE BASED ON ITS OWN CONTROLS TO MAINTAIN THE ROOM PRESSURE SETPOINT (AS DETERMINED BY AIR BALANCER). PRESSURE SETPOINT AND VFD SPEED NOT CONTROLLED THROUGH EMS.

FILTER STATUS
 WHEN THE PRESSURE ACROSS THE FILTER BANK EXCEEDS THE SETPOINT OF THE DIFFERENTIAL PRESSURE SWITCH, AN ALARM INDICATES A DIRTY FILTER.

UNIT OPTIMAL START
 THE UNIT WILL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM WILL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

DEMAND LIMITING
 THE RTU OPEN MAY EMPLOY A DEMAND LIMIT STRATEGY. DEMAND LIMITING IN THE RTU OPEN WORKS THROUGH SETPOINT EXPANSION. THE CONTROLLER'S HEATING AND COOLING SETPOINT ARE EXPANDED IN STEPS OR LEVELS. THE DEGREE TO WHICH THE SETPOINT ARE EXPANDED IS DEFINED BY THE DEMAND LEVEL SETPOINT. EACH DEMAND LEVEL (1 THROUGH 3) ADJUST THE HEATING AND COOLING SETPOINT OUTWARDS. BY DEFAULT, DEMAND 1 YIELDS A 1°F EXPANSION, DEMAND 2 YIELDS A 2°F EXPANSION, AND DEMAND 3 YIELDS A 4°F EXPANSION. THE BACNET DEMAND LIMITING VARIABLE SETS THE ADJUSTABLE DESIRED LEVEL OF SETPOINT EXPANSION IN THE RECEIVING CONTROLLER. LEVEL 0 LEAVES THE STANDARD OCCUPIED AND UNOCCUPIED HEATING AND COOLING SETPOINT IN EFFECT. LEVEL 1 THROUGH 3 EXPANDS OCCUPIED HEATING AND COOLING SETPOINT. THE DEMAND LIMIT KW SETPOINTS ARE SET IN THE KW METER CONTROL PROGRAM AND DETERMINED BY THE DISTRICT.

SYSTEM SHUT-DOWN
 FIRE ALARM SHALL PROVIDE UNIT AUTOMATIC SHUTOFF PER CMC SECTION 608 BY FIRE / ALARM CONTRACTOR IN LIEU OF DUCT SMOKE DETECTOR. SEE 9/MS.2.

Point Name	Hardware Points				Software Points							Show On Graphic
	AI	AO	BI	BO	AV	BV	Loop	Sched	Trend	Alarm		
Space Temp					x					x	x	x
Space Setpoint Adjust					x					x		x
Space Unoccupied Override					x					x		
Space CO2 PPM					x					x	x	x
Supply Air Temp	x									x	x	x
Mixed Air Dampers		x								x	x	x
Supply Fan Status (Current Switch)			x							x	x	x
Filter Status Switch			x							x	x	x
Occupancy Contact			x							x		x
Door Contact			x							x		x
Cooling Stage 1				x						x		x
Cooling Stage 2				x						x		x
Cooling Stage 3				x						x		x
Heating Stage 1				x						x		x
Heating Stage 2				x						x		x
Powered Exhaust Enable/Disable				x						x		
Supply Fan Start/Stop				x						x		x
Outside Air Temp	x				x					x		x
Schedule							x			x		
Cooling Setpoint										x		x
Heating Setpoint										x		x
Compressor Runtime Exceeded											x	
KW Demand Limit					x					x		x

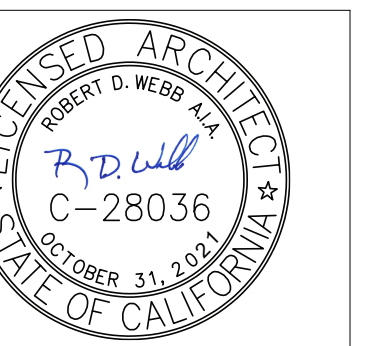
① PACKAGE ROOFTOP UNIT WITH DEMAND CONTROLLED VENTILATION CONTROL DIAGRAM (TYPICAL FOR AC-3 AND AC-4)
 M6.2 SCALE: NTS

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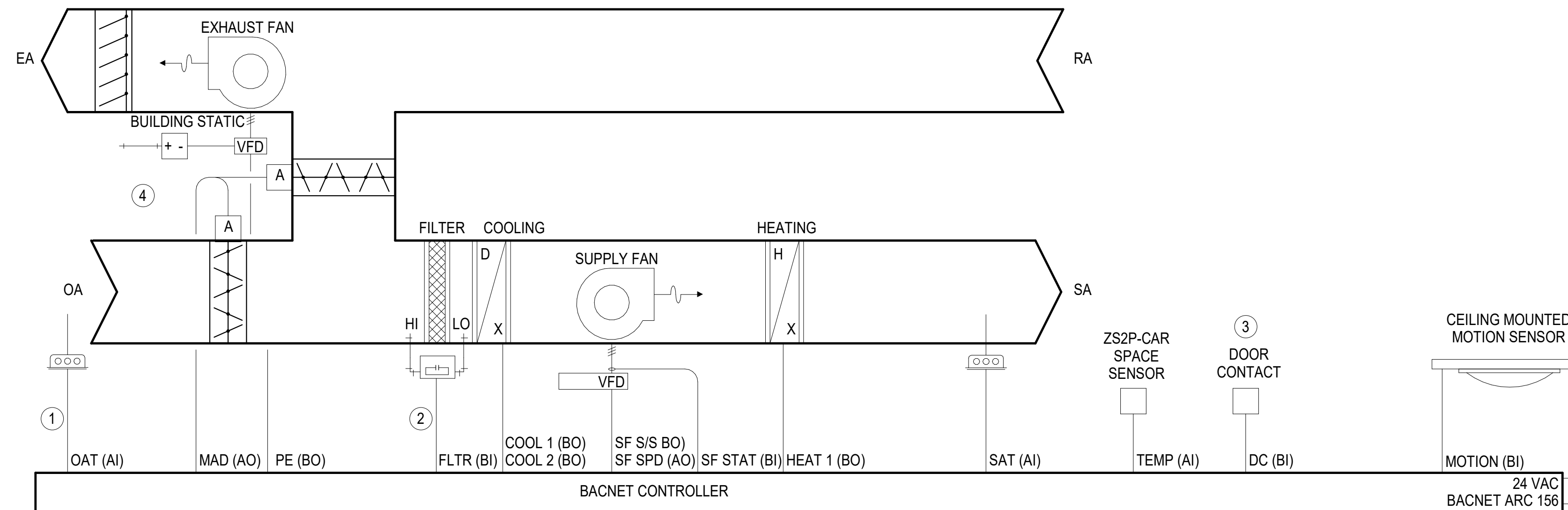
PACKAGE UNIT
 CONTROL DIAGRAM

Drawn: MM
 Checked: MP
 Date: _____
 Job: SSD-SC-03

KEYNOTES

- ① TWO OUTDOOR AIR TEMPERATURE SENSORS PER SITE.
- ② DIFFERENTIAL PRESSURE SWITCH ON ONE OF THE AC UNITS ONLY.
- ③ ALL DOORS OPENING TO OUTSIDE SHALL BE EQUIPPED WITH SENSOR TO SHUT-DOWN THE AC UNIT. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND QUANTITY.
- ④ PROVIDE ONE SPACE PRESSURE SENSOR PER AC UNIT.

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SEQUENCE OF OPERATION

OCCUPANCY
 THE UNIT WILL FOLLOW A USER DEFINED BACNET SCHEDULE CONFIGURATION FROM THE I-VU SERVER ALONG WITH A LOCAL PASSIVE INFRARED (PIR) MOTION SENSOR. DURING SCHEDULE OCCUPIED PERIODS, WHEN MOTION IS DETECTED IN THE OCCUPIED SPACE BY THE PIR, THE UNIT WILL OPERATE IN THE OCCUPIED MODE. IF DURING OCCUPIED PERIODS, MOTION HAS NOT BEEN DETECTED FOR 30 MINS. (ADJ.) THE UNIT SHALL SET BACK THE OCCUPIED HEATING & COOLING SETPOINTS BY 3°F (ADJ.) AND THE FAN WILL OPERATE WHEN THE SPACE TEMPERATURE EXCEEDS THE STANDBY SETPOINTS.

UNOCCUPIED MODE
 THE UNIT WILL MAINTAIN AN UNOCCUPIED COOLING SETPOINT OF 95°F AND AN UNOCCUPIED HEATING SETPOINT OF 45°F. DURING THE UNOCCUPIED TIME, EACH PRESS OF THE OVERRIDE BUTTON LOCATED ON THE ROOM SPACE SENSOR WILL ADD 30 MINS (ADJ.) OF OCCUPIED TIME FOR UP TO 4 HOURS (ADJ.). AFTER THE TIME HAS EXPIRED THE UNIT WILL RETURN TO THE UNOCCUPIED MODE.

INDOOR FAN - TWO SPEED
 DURING OCCUPIED PERIODS, THE FAN SHALL OPERATE CONTINUOUSLY. DURING UNOCCUPIED PERIODS, THE FAN SHALL OPERATE WHEN THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED HEATING OR COOLING SETPOINTS. THE FAN OPERATES AT 1 OF 2 SPEEDS DEPENDING ON THE MODE OF OPERATION AND LOAD CONDITIONS. DURING VENT ONLY MODE AND LOW LOAD CONDITIONS, THE FAN OPERATES AT LOW SPEED. IF LOAD CONDITIONS INCREASE OR IF THERE IS A CALL FOR HEATING, THE FAN OPERATES AT HIGH SPEED.

HEATING MODE
 WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT OF 68°F (ADJ.), UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE. EACH STAGE OF HEATING HAS A FIXED 1 MINUTE MINIMUM ON-TIME, AND 1 MINUTE OFF TIME.

COOLING MODE
 WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT OF 76°F (ADJ.), UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE MECHANICAL COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE. EACH COMPRESSOR OUTPUT HAS A FIXED 3 MINUTE MINIMUM ON-TIME, AND 5 MINUTE OFF TIME.

DOOR SWITCH INTERLOCK
 UPON OPENING ANY EXTERIOR DOOR FOR A DURATION OF 5 MINUTES (ADJ.), THE MECHANICAL HEATING AND COOLING WILL BE DISABLED. ECONOMIZER COOLING, IF AVAILABLE, WILL CONTINUE TO OPERATE.

ECONOMIZER
 ECONOMIZER SHALL CLOSE WHEN FAN IS OFF OR DURING A LOSS OF POWER. DURING OCCUPIED HOURS WHEN FAN IS ENERGIZED IN LOW SPEED THE ECONOMIZER SHALL OPEN TO ITS LOW FAN MINIMUM POSITION OF 33% (ADJ.). WHEN THE FAN IS RUNNING IN HIGH SPEED THE ECONOMIZER SHALL RESET TO ITS HIGH SPEED MINIMUM POSITION OF 20% (ADJ.). DAMPER MINIMUM POSITIONS TO BE DETERMINED BY AIR BALANCER.

WHEN OUTSIDE AIR TEMPERATURE IS BELOW THE HIGH LIMIT OF 73°F (ADJ.), BELOW SPACE TEMPERATURE, AND OCCUPIED SPACE REQUIRES COOLING, ECONOMIZER SHALL OPEN. IF ECONOMIZER AIR IS NOT SUFFICIENT TO MEET THE DEMAND IN THE OCCUPIED SPACE, UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE. THE FOLLOWING FAULT DETECTION AND DIAGNOSTIC (FDD) ALARMS SHALL BE SENT THROUGH THE SERVER:
 A. AIR TEMPERATURE SENSOR FAILURE
 B. FAILS TO CLOSE
 C. FAILS TO OPEN
 D. STUCK FULLY OPEN
 E. FAILS TO FULLY OPEN

POWER EXHAUST
 THE EXHAUST FAN SHALL BE ENABLED ANYTIME THE SUPPLY FAN IS RUNNING AND THE OUTDOOR AIR DAMPER OPENS MORE THAN 30% (ADJUSTABLE). THE POWER EXHAUST VFD WILL MODULATE BASED ON ITS OWN CONTROLS TO MAINTAIN THE ROOM PRESSURE SETPOINT (AS DETERMINED BY AIR BALANCER). PRESSURE SETPOINT AND VFD SPEED NOT CONTROLLED THROUGH EMS.

FILTER STATUS
 WHEN THE PRESSURE ACROSS THE FILTER BANK EXCEEDS THE SETPOINT OF THE DIFFERENTIAL PRESSURE SWITCH, AN ALARM INDICATES A DIRTY FILTER.

UNIT OPTIMAL START
 THE UNIT WILL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM WILL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

DEMAND LIMITING
 THE RTU OPEN MAY EMPLOY A DEMAND LIMIT STRATEGY. DEMAND LIMITING IN THE RTU OPEN WORKS THROUGH SETPOINT EXPANSION. THE CONTROLLER'S HEATING AND COOLING SETPOINT ARE EXPANDED IN STEPS OR LEVELS. THE DEGREE TO WHICH THE SETPOINT ARE EXPANDED IS DEFINED BY THE DEMAND LEVEL SETPOINT. EACH DEMAND LEVEL (1 THROUGH 3) ADJUST THE HEATING AND COOLING SETPOINT OUTWARDS. BY DEFAULT, DEMAND 1 YIELDS A 1°F EXPANSION, DEMAND 2 YIELDS A 2°F EXPANSION, AND DEMAND 3 YIELDS A 4°F EXPANSION. THE BACNET DEMAND LIMITING VARIABLE SETS THE ADJUSTABLE DESIRED LEVEL OF SETPOINT EXPANSION IN THE RECEIVING CONTROLLER. LEVEL 0 LEAVES THE STANDARD OCCUPIED AND UNOCCUPIED HEATING AND COOLING SETPOINT IN EFFECT. LEVEL 1 THROUGH 3 EXPANDS OCCUPIED HEATING AND COOLING SETPOINT. THE DEMAND LIMIT KW SETPOINTS ARE SET IN THE KW METER CONTROL PROGRAM AND DETERMINED BY THE DISTRICT.

SYSTEM SHUT-DOWN
 FIRE ALARM SHALL PROVIDE UNIT AUTOMATIC SHUTOFF PER CMC SECTION 608 BY FIRE / ALARM CONTRACTOR IN LIEU OF DUCT SMOKE DETECTOR. SEE 9M5.2.

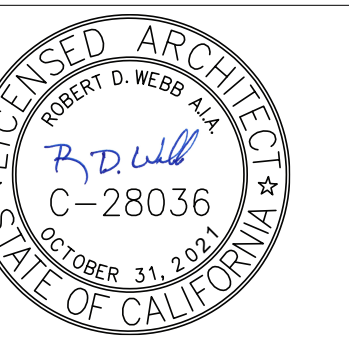
Point Name	Hardware Points				Software Points						Show On Graphic
	AI	AO	BI	BO	AV	BV	Loop	Sched	Trend	Alarm	
Space Temp					X				X	X	X
Space Setpoint Adjust					X				X		X
Space Unoccupied Override					X				X		
Supply Air Temp	X								X	X	X
Mixed Air Dampers		X							X	X	X
Supply Fan Status (Current Switch)			X						X	X	X
Filter Status Switch			X						X	X	X
Occupancy Contact			X						X		X
Door Contact			X						X		X
Cooling Stage 1				X					X		X
Cooling Stage 2				X					X		X
Heating Stage 1				X					X		X
Powered Exhaust Enable/Disable				X					X		
Supply Fan Start/Stop				X					X		X
Outside Air Temp	X				X				X		X
Schedule							X	X			
Cooling Setpoint					X				X		X
Heating Setpoint					X				X		X
Compressor Runtime Exceeded										X	
KW Demand Limit					X				X		X

① PACKAGE ROOFTOP UNIT CONTROL DIAGRAM (AC-1)
 M6.3 SCALE: NTS

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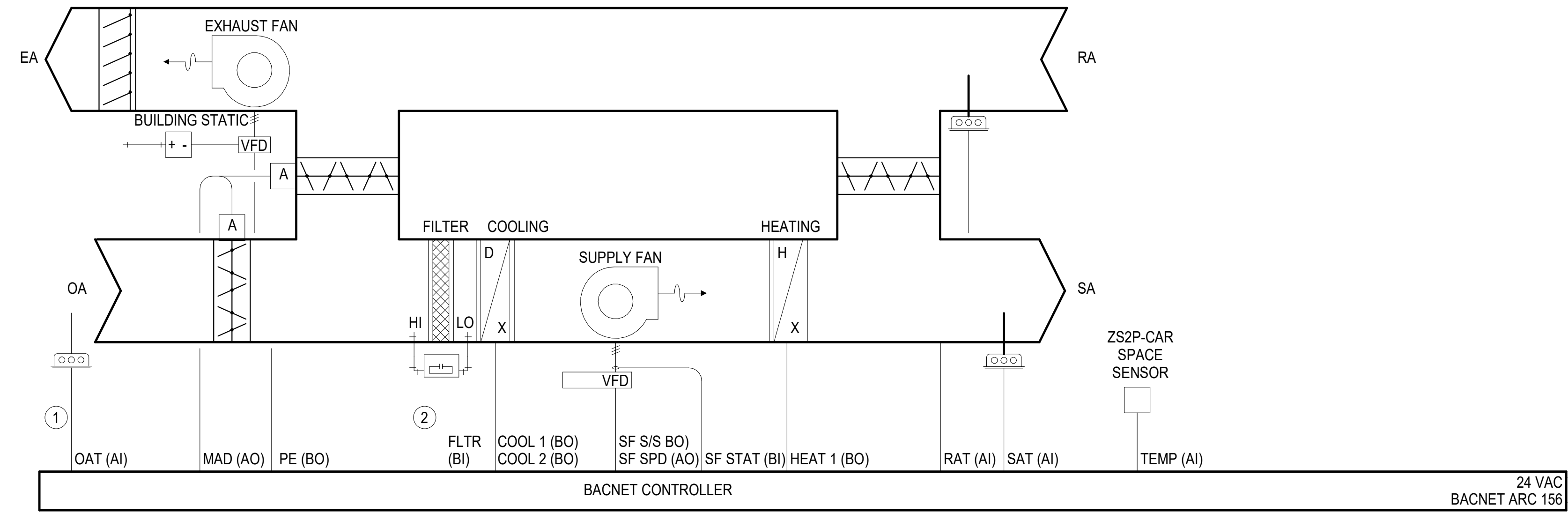
PACKAGE UNIT
 CONTROL DIAGRAM

Drawn: MM
 Checked: MP
 Date: _____
 Job: SSD-SC-03

KEYNOTES

- ① TWO OUTDOOR AIR TEMPERATURE SENSORS PER SITE.
- ② DIFFERENTIAL PRESSURE SWITCH ON ONE OF THE AC UNITS ONLY.
- ③ PROVIDE ONE SPACE PRESSURE SENSOR PER AC UNIT.

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Point Name	Hardware Points				Software Points						
	AI	AO	BI	BO	AV	BV	Loop	Sched	Trend	Alarm	Show On Graphic
Reference Zone Temp					x				x	x	x
Reference Zone Setpoint Adjust					x				x		x
Reference Zone Unoccupied Over-ride					x				x		
Supply Air Temp	x								x	x	x
Return Air Temp	x								x		x
Mixed Air Dampers		x							x	x	x
Supply Fan Status (Current Switch)			x						x	x	x
Filter Status Switch			x						x	x	x
Occupancy Status						x			x		x
Cooling Stage 1				x					x		x
Cooling Stage 2				x					x		x
Heating Stage 1				x					x		x
Powered Exhaust Enable/Disable				x					x		
Supply Fan Start/Stop				x					x		x
Outside Air Temp	x				x				x		x
Schedule							x		x		
Cooling Setpoint					x				x		x
Heating Setpoint					x				x		x
Compressor Runtime Exceeded										x	
KW Demand Limit					x				x		x

SEQUENCE OF OPERATION

LINKAGE

THE CONTROL SYSTEM USES LINKAGE TO EXCHANGE DATA BETWEEN THE ZONE TERMINALS AND THEIR AIR SOURCE TO FORM A COORDINATED HVAC SYSTEM. THE SYSTEM'S AIR SOURCE CONTROLLER, ZONE CONTROLLERS, AND BYPASS CONTROLLER ARE LINKED SO THAT THEIR DATA EXCHANGE CAN BE MANAGED BY ONE ZONE CONTROLLER CONFIGURED AS THE VVT MASTER. THE VVT MASTER GATHERS THE FOLLOWING INFORMATION FROM THE SLAVE ZONE CONTROLLERS: OCCUPANCY STATUS, SETPOINTS, ZONE TEMPERATURE, RELATIVE HUMIDITY, DAMPER POSITION, AND OPTIMAL START DATA (ALL IF APPLICABLE).

OCCUPANCY

THE UNIT WILL RUN VIA A LINKAGE OCCUPANCY STATUS UNLESS A SHUTDOWN ON SAFETIES OCCURS.

UNOCCUPIED MODE

THE UNIT WILL MAINTAIN A REFERENCE ZONE UNOCCUPIED COOLING SETPOINT OF 95°F AND A REFERENCE ZONE UNOCCUPIED HEATING SETPOINT OF 45°F.

INDOOR FAN - TWO SPEED

DURING OCCUPIED PERIODS, THE FAN SHALL OPERATE CONTINUOUSLY. DURING UNOCCUPIED PERIODS, THE FAN SHALL OPERATE WHEN THE REFERENCE ZONE TEMPERATURE EXCEEDS THE UNOCCUPIED HEATING OR COOLING SETPOINTS. THE FAN OPERATES AT 1 OF 2 SPEEDS DEPENDING ON THE MODE OF OPERATION AND LOAD CONDITIONS. DURING VENT ONLY MODE AND LOW LOAD CONDITIONS, THE FAN OPERATES AT LOW SPEED. IF LOAD CONDITIONS INCREASE OR IF THERE IS A CALL FOR HEATING, THE FAN OPERATES AT HIGH SPEED.

HEATING MODE

WHEN THE REFERENCE ZONE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT OF 68°F (ADJ.), UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE. EACH STAGE OF HEATING HAS A FIXED 1 MINUTE MINIMUM ON-TIME, AND 1 MINUTE OFF TIME.

COOLING MODE

WHEN THE REFERENCE ZONE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT OF 76°F (ADJ.), UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE MECHANICAL COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE. EACH COMPRESSOR OUTPUT HAS A FIXED 3 MINUTE MINIMUM ON-TIME, AND 5 MINUTE OFF TIME.

ECONOMIZER

ECONOMIZER SHALL CLOSE WHEN FAN IS OFF OR DURING A LOSS OF POWER. DURING OCCUPIED HOURS WHEN FAN IS ENERGIZED IN LOW SPEED THE ECONOMIZER SHALL OPEN TO ITS LOW FAN MINIMUM POSITION OF 33% (ADJ.). WHEN THE FAN IS RUNNING IN HIGH SPEED THE ECONOMIZER SHALL RESET TO ITS HIGH SPEED MINIMUM POSITION OF 20% (ADJ.). DAMPER MINIMUM POSITIONS TO BE DETERMINED BY AIR BALANCER.

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THE FOLLOWING FAULT DETECTION AND DIAGNOSTIC (FDD) ALARMS SHALL BE SENT THROUGH THE SERVER

- A. AIR TEMPERATURE SENSOR FAILURE
- B. FAILS TO CLOSE
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- D. STUCK FULLY OPEN
- E. FAILS TO FULLY OPEN

POWER EXHAUST

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FILTER STATUS

WHEN THE PRESSURE ACROSS THE FILTER BANK EXCEEDS THE SETPOINT OF THE DIFFERENTIAL PRESSURE SWITCH, AN ALARM INDICATES A DIRTY FILTER.

UNIT OPTIMAL START

THE UNIT WILL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM WILL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED LINKAGE OCCUPIED PERIOD.

DEMAND LIMITING

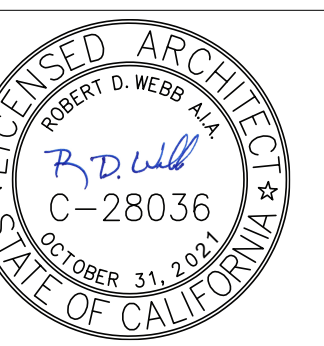
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① PACKAGE ROOFTOP UNIT WITH VVT CONTROL DETAIL (AC-2)
 SCALE: NTS

Revision _____ Date _____
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 Consultant



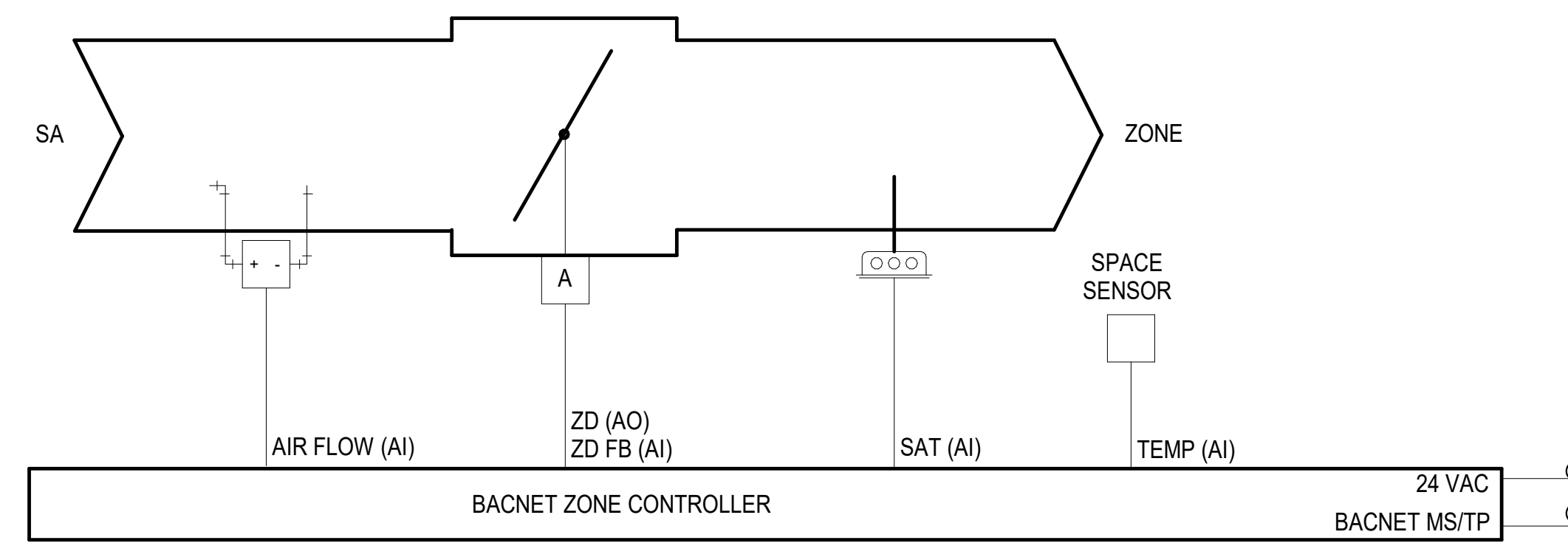
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PROSPECT AVENUE ELEMENTARY
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 SANTEE SCHOOL DISTRICT

PACKAGE ROOFTOP
 UNIT WITH VVT
 CONTROL DIAGRAM

Drawn: MM
 Checked: MP
 Date:
 Job: SSD-SC-03



SEQUENCE OF OPERATION

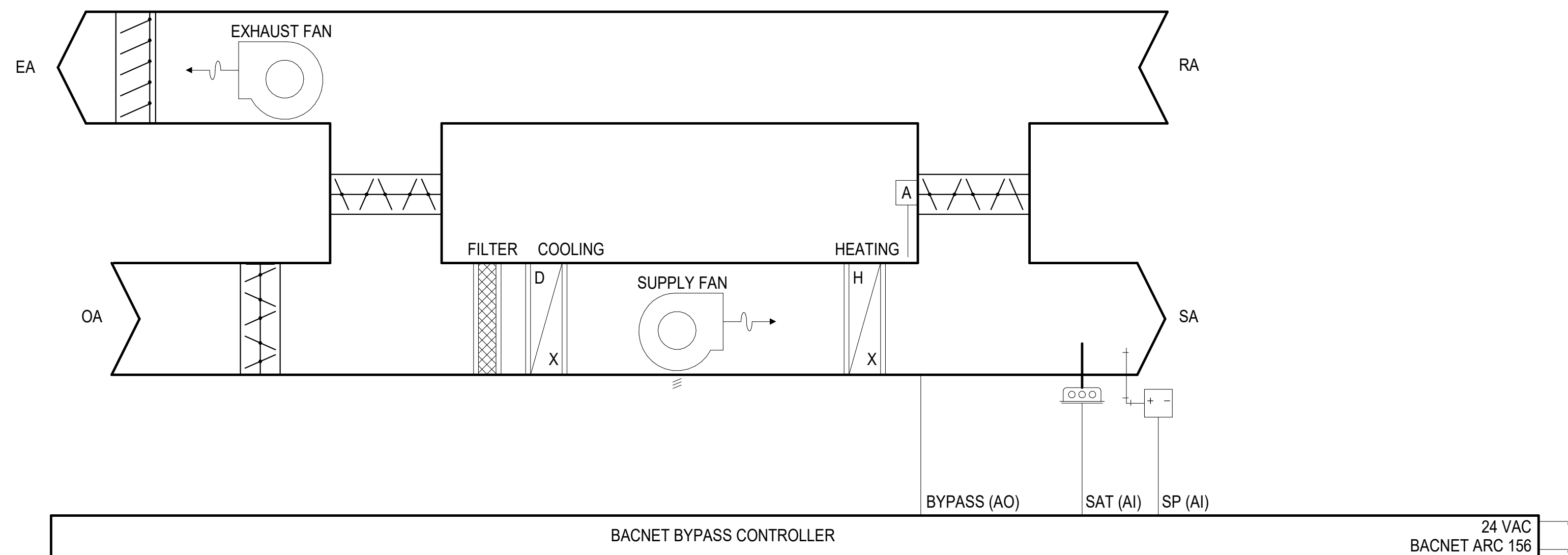
PRESSURE INDEPENDENT VVT ZONE CONTROLLER
 PROVIDES PRESSURE-INDEPENDENT ZONE TEMPERATURE CONTROL BY MODULATING ITS BUILT-IN DAMPER ACTUATOR TO CONTROL THE FLOW OF PRIMARY AIR INTO THE ZONE. THE DAMPER MODULATES THE AIRFLOW SETPOINT BETWEEN THE MODE'S CONFIGURABLE MINIMUM AND MAXIMUM AIRFLOW BASED ON THE OCCUPANCY STATUS OF THE ZONE AND OCCUPIED HEATING SETPOINT OF 68°F AND COOLING SETPOINT OF 76°F. THIS MINIMUM INSURES SUFFICIENT MINIMUM AIRFLOW AT THE AIR SOURCE AND SUFFICIENT VENTILATION TO THE ZONE DURING OCCUPIED PERIODS. WHEN THE ZONE IS UNOCCUPIED, THE UNOCCUPIED MINIMUM AIRFLOW SETPOINT PROVIDES THE BASE VENTILATION AS REQUIRED (ADJ.) AND WILL MAINTAIN THE ZONES UNOCCUPIED COOLING SETPOINT OF 85°F (ADJ.) AND UNOCCUPIED HEATING SETPOINT OF 45°F (ADJ.).

OCCUPANCY OVERRIDE
 THE ZONE WILL ENTER A 2 HOUR (ADJ.) TIMED OVERRIDE UPON ACTIVATION OF THE PUSHBUTTON OVERRIDE ON THE SPACE SENSOR. A COMMAND WILL BE SENT TO THE AIR SOURCE VIA LINKAGE TO START THE SYSTEM.

UNIT OPTIMAL START
 THE UNIT WILL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM WILL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

DEMAND LIMITING
 THE VAV CONTROLLER WILL EMPLOY A DEMAND LIMIT STRATEGY. DEMAND LIMITING IN THE VAV WORKS THROUGH SETPOINT EXPANSION. THE CONTROLLER'S HEATING AND COOLING SETPOINT ARE EXPANDED IN STEPS OR LEVELS. THE DEGREE TO WHICH THE SETPOINT ARE EXPANDED IS DEFINED BY THE DEMAND LEVEL SETPOINT. EACH DEMAND LEVEL (1 THROUGH 3) ADJUST THE HEATING AND COOLING SETPOINT OUTWARDS. BY DEFAULT, DEMAND 1 YIELDS A 1°F EXPANSION, DEMAND 2 YIELDS A 2°F EXPANSION, AND DEMAND 3 YIELDS A 4°F EXPANSION. THE BACNET DEMAND LIMITING VARIABLE SETS THE ADJUSTABLE DESIRED LEVEL OF SETPOINT EXPANSION IN THE RECEIVING CONTROLLER. LEVEL 0 LEAVES THE STANDARD OCCUPIED AND UNOCCUPIED HEATING AND COOLING SETPOINT IN EFFECT. LEVEL 1 THROUGH 3 EXPANDS OCCUPIED HEATING AND COOLING SETPOINT. THE DEMAND LIMIT KW SETPOINTS ARE SET IN THE KW METER CONTROL PROGRAM AND DETERMINED BY THE DISTRICT.

1 VVT ZONE AIR TERMINAL CONTROL DETAIL (Z-2.1 THRU Z-2.4)
 M6.5 SCALE: NTS



SEQUENCE OF OPERATION

VVT BYPASS DAMPER
 WHILE THE INDOOR FAN RUNS, THE BYPASS SHALL MODULATE TO MAINTAIN DUCT PRESSURE AT A CONFIGURABLE SETPOINT. IF THE STATIC PRESSURE IS BELOW THE STATIC PRESSURE SETPOINT THE BYPASS DAMPER WILL MODULATE CLOSE TO BUILD DUCT STATIC PRESSURE UNTIL THE STATIC PRESSURE IS AT SETPOINT. IF THE STATIC PRESSURE IS ABOVE THE STATIC PRESSURE SETPOINT THE BYPASS DAMPER WILL MODULATE OPEN TO RELIEVE DUCT STATIC PRESSURE UNTIL THE STATIC PRESSURE IS AT SETPOINT.

2 VVT BYPASS AIR TERMINAL CONTROL DETAIL (Z-2.5)
 M6.5 SCALE: NTS

Point Name	Hardware Points					Software Points					Show On Graphic
	AI	AO	BI	BO	RNET	AV	BV	Sched	Trend	Alarm	
Terminal Airflow	x								x	x	x
Zone Damper Signal	x								x		x
Zone Damper Position Feedback	x										
Space Temp					x				x	x	x
Space Setpoint Adjust					x						x
Space Unoccupied Override					x				x		
Supply Air Temp	x								x	x	x
Outside Air Temp						x			x		x
Schedule								x	x		
Cooling Setpoint									x		x
Heating Setpoint									x		x
Air Source Linkage Mode						x				x	
KW Demand Level						x			x		

Point Name	Hardware Points					Software Points					Show On Graphic
	AI	AO	BI	BO	RNET	AV	BV	Sched	Trend	Alarm	
Bypass Damper Signal	x								x		x
Bypass Damper Position Feedback	x										
Supply Air Temp	x								x	x	x
Supply Air Duct Static Pressure	x								x	x	x
Air Source Linkage Mode							x			x	

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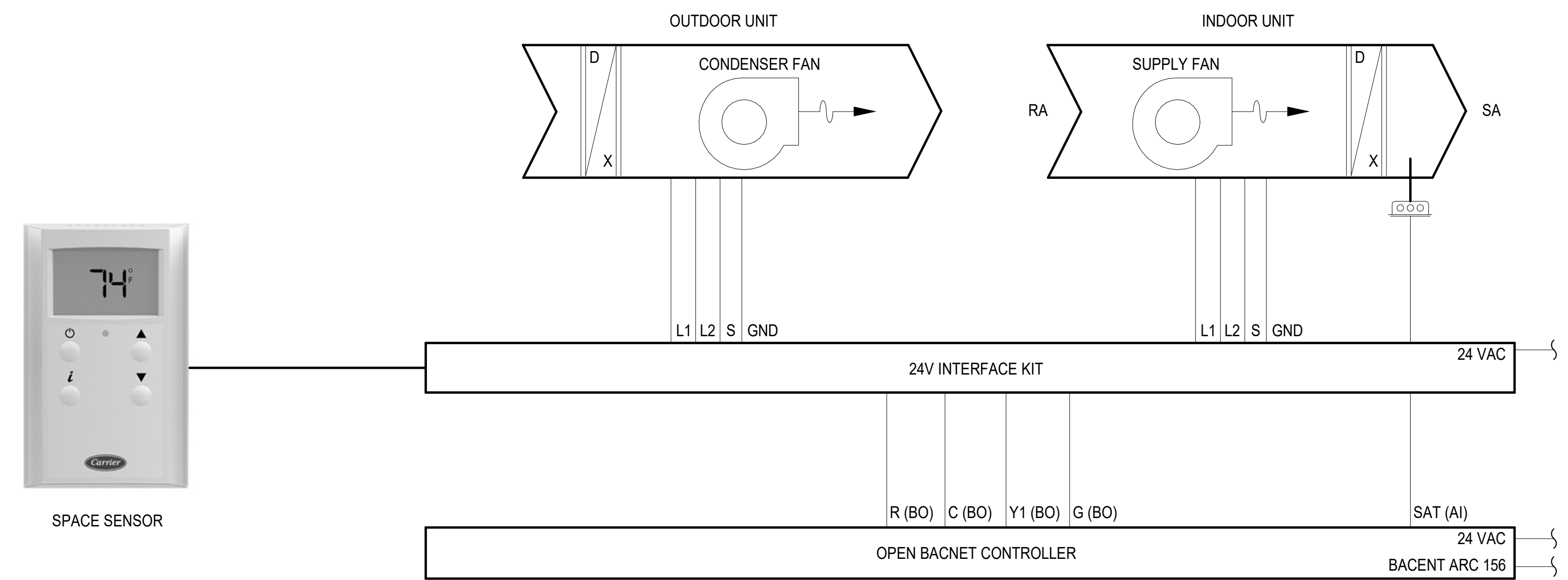
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 No. 28036
 Expires 11/30/24

PROSPECT AVENUE ELEMENTARY
 SCHOOL
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 SANTEE SCHOOL DISTRICT

VVT AIR TERMINAL
 CONTROL DIAGRAM

Drawn: MM
 Checked: MP
 Date:
 Job: SSD-SC-03

M6.5



SEQUENCE OF OPERATION

INDOOR FAN
 THE UNIT SHALL BE CONTINUOUSLY OCCUPIED. DURING OCCUPIED PERIODS, FAN SHALL OPERATE CONTINUOUSLY. THE FAN OPERATES AT ONE SPEED ONLY AND PROVIDES ON/OFF OPERATION

COOLING MODE
 WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT OF 76°F (ADJ.), UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE MECHANICAL COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE. EACH COMPRESSOR OUTPUT HAS A FIXED 3 MINUTE MINIMUM ON-TIME, AND 5 MINUTE OFF TIME

Point Name	Hardware Points				Software Points						
	AI	AO	BI	BO	AV	BV	Loop	Sched	Trend	Alarm	Show On Graphic
Space Temp	x								x	x	x
Supply Air Temp	x								x	x	x
Cooling Stage				x					x		x
Supply Fan Start/Stop				x					x		x
Cooling Setpoint					x				x		x
Compressor Runtime Exceeded										x	

1 DUCTLESS SPLIT SYSTEM CONTROL DETAIL (FC/CU-1)
 M6.6 SCALE: NTS

Revision Date

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LICENSED ARCHITECT
 ROBERT D. WEBB
 C-28036
 EXPIRES 31.12.2014
 STATE OF CALIFORNIA

PROSPECT AVENUE ELEMENTARY
 SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

DUCTLESS SPLIT
 SYSTEM CONTROL
 DIAGRAM

Drawn: MM
 Checked: MP
 Date:
 Job: SSD-SC-03

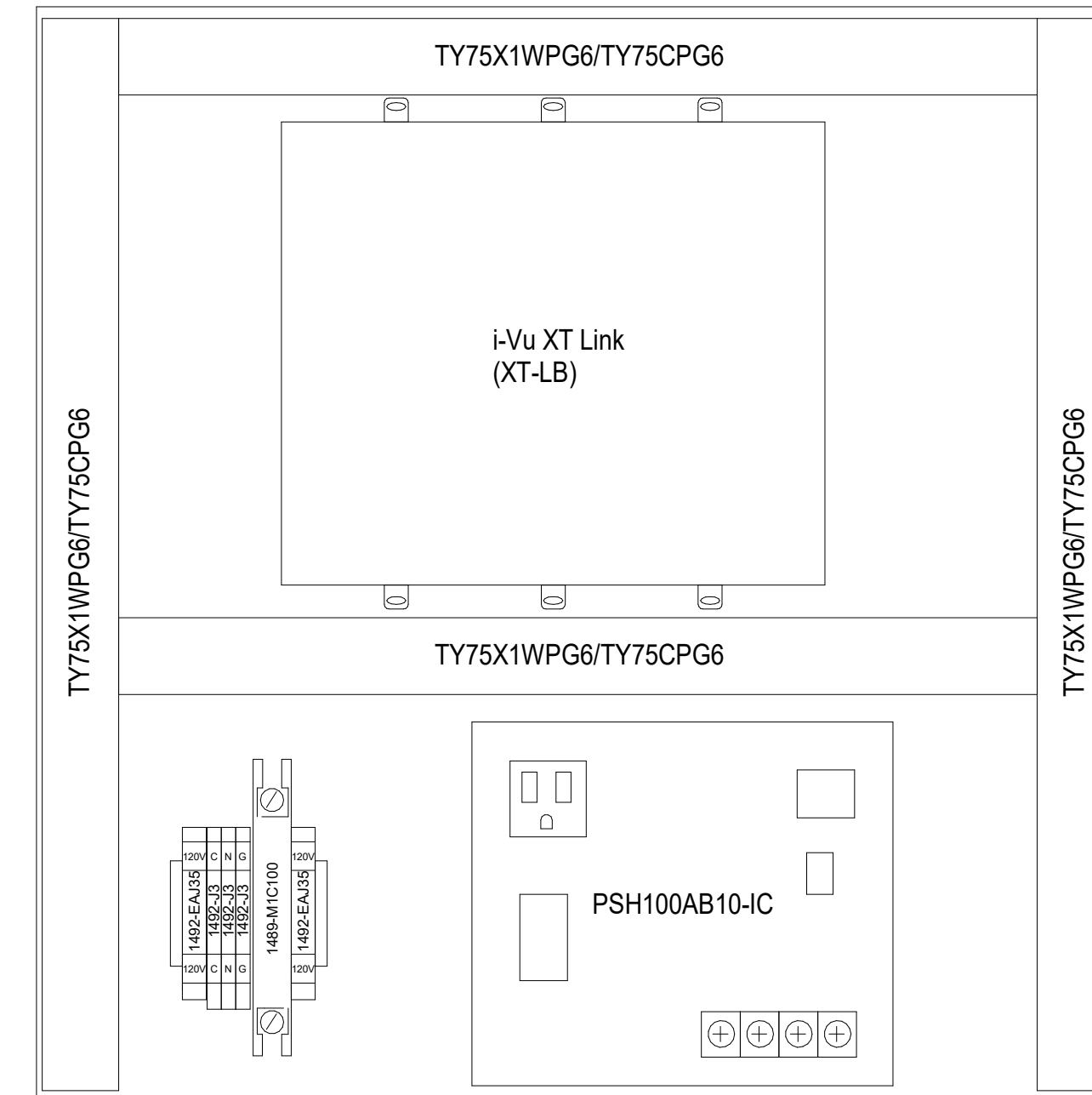
M6.6

KEYNOTES

- ① I-VU PRO SOFTWARE TO INCLUDE ADR SIGNAL SOFTWARE TO RECEIVE SIGNAL FROM LOCAL UTILITY.
- ② POWER FOR NETWORK PANEL FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- ③ ELECTRICAL METER TO BE FURNISHED BY THE CONTROLS CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

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16"x16"x6" CONTROL PANEL PHYSICAL LAYOUT

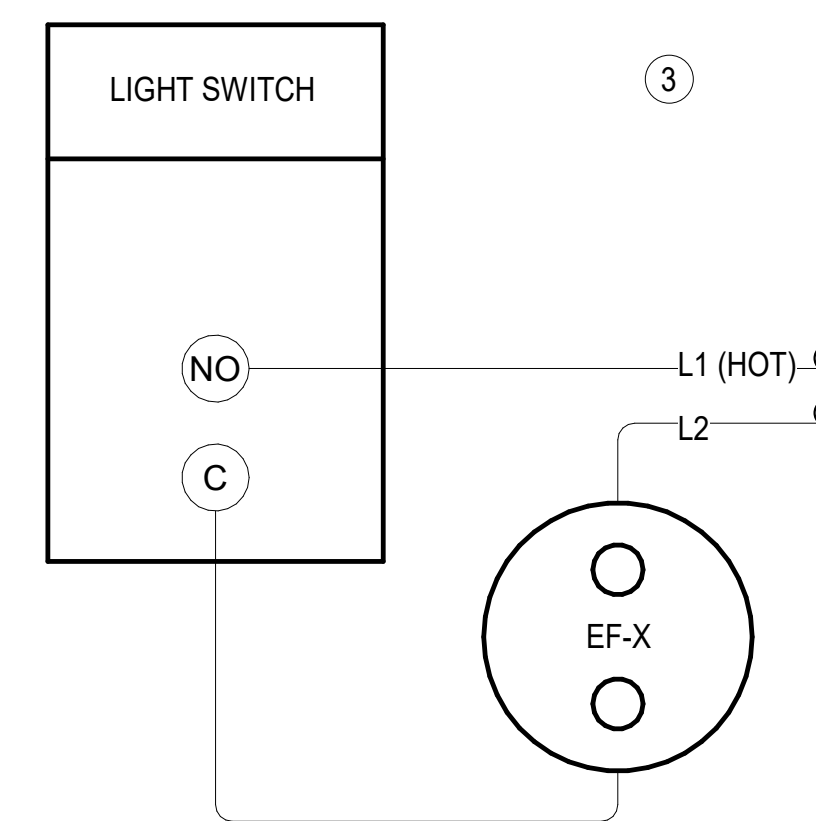


①

DESCRIPTION	INPUTS		OUTPUTS		REMARKS
	ANALOG	BINARY	ANALOG	BINARY	
SYSTEM CURRENT AVERAGE	x				
SYSTEM MAXIMUM PEAK DEMAND	x				
SYSTEM AVERAGE POWER DEMAND	x				
SYSTEM TOTAL TRUE POWER	x				
SYSTEM NET POWER	x				
SYSTEM TOTAL TRUE ENERGY	x				

③ I-VU NETWORK LINK (NL-1)
 M6.7 SCALE: NTS

① POWER METER BACNET INTEGRATION (M-1)
 M6.7 SCALE: NTS



③

④ LIGHT SWITCH EXHAUST FAN DETAIL (EF-1)
 M6.7 SCALE: NTS

DESCRIPTION	INPUTS		OUTPUTS		REMARKS
	ANALOG	BINARY	ANALOG	BINARY	
SCHEDULE		x			
LIGHTING ON/OFF				x	
PHOTO CELL		x			

②

SEQUENCE OF OPERATION

SYSTEM OPERATION
 EXTERIOR LIGHTING CIRCUIT SHALL BE ENABLED WHEN SCHEDULED OCCUPIED AND WHEN THE PHOTO CELL DOES NOT SENSE LIGHT.

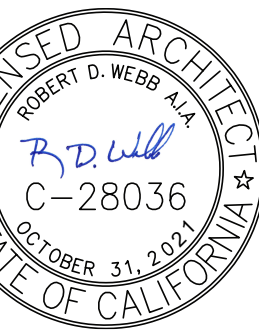
② LIGHTING PANEL BACNET INTEGRATION (LP-1)
 M6.7 SCALE: NTS

Revision
 Date

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PROSPECT AVENUE ELEMENTARY
 SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

**LIGHTING / METER
 AND LINK CONTROL
 DIAGRAM**

Drawn:
 MM
 Checked:
 MP
 Date:
 Job:
 SSD-SC-03

PLUMBING GENERAL NOTES

- REVIEW THESE PLANS AND SPECIFICATIONS INCLUDING PLANS AND SPECIFICATIONS OF OTHER TRADES PRIOR TO BID. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OF RECORD IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
- VERIFY & COORDINATE EXACT LOCATION OF EQUIPMENT, PENETRATIONS THROUGH ROOF, FLOOR AND WALLS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PRIOR TO SHOP DRAWINGS AND CONSTRUCTION.
- COORDINATE EXACT SIZE AND ROUTING OF PIPING WITH ARCHITECTURAL, STRUCTURAL AND ELECTRICAL PRIOR TO SHOP DRAWING AND CONSTRUCTION.
- PROVIDE A COMPLETE SET OF SHOP DRAWINGS AND DETAILS BASED ON ACTUAL FIELD MEASUREMENT AND EQUIPMENT PROCURED.
- PROVIDE ACCESS AND CLEARANCES FOR EQUIPMENT MAINTENANCE AS RECOMMENDED BY APPLICABLE CODES AND EQUIPMENT MANUFACTURER. COORDINATE WITH OTHER TRADES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES, EQUIPMENT, AREAS & PROPERTY THAT MAY BE DAMAGED AS A RESULT OF DEMOLITION AND/OR NEW WORK.
- FOR CONDITIONS THAT PIPE AND CONDUIT SUPPORT IS NOT PROVIDED, REFER TO SMACNA DETAILS.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS AND REQUIREMENTS OF AGENCIES HAVING JURISDICTION AND INDUSTRY STANDARDS.
- VERIFY EXACT LOCATION OF PLUMBING FIXTURES AND FLOOR DRAINS WITH THE ARCHITECT.
- TERMINATE VENTS THRU ROOF A MINIMUM OF 18 INCHES ABOVE ROOF AND MINIMUM 10 FEET HORIZONTAL AWAY FROM OUTSIDE AIR INTAKES.
- FOR EXACT LOCATION OF ALL PLUMBING FIXTURES AND PIPE CHASES REFER TO ARCHITECTURAL DRAWINGS.
- COORDINATE EXACT LOCATION AND SIZES FOR PIPE SLEEVES THRU CONCRETE WALL. MINIMUM R FLOOR WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- PRIOR TO INSTALLATION VERIFY EXACT LOCATION, INVERT ELEVATION, PIPE SIZES AND POINT OF CONNECTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- LOCATE ALL VALVES WHERE THEY ARE READILY ACCESSIBLE. WHERE VALVES ARE INSTALLED WITHIN OR BEHIND WALLS OR ABOVE A CEILING, PROVIDE ACCESS PANEL.
- ALL PIPES THRU FIRE RATED WALL SHALL BE INSTALLED WITH AN APPROVED FIRE STOP SYSTEM.
- THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS AND NECESSARY OFFSETS OF PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER TO AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENING AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL COMPLY WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD AFFECT THE SYSTEM PERFORMANCE OR INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE SUBMITTED PRIOR TO INSTALLATION OF THE ITEMS CONCERNED.
- SUBSTITUTION IS NOT ALLOWED WITHOUT APPROVAL OF OWNER AND ARCHITECT OF THE RECORD. SUBSTITUTION OF MECHANICAL EQUIPMENT WITH EFFICIENCIES LOWER THAN THOSE INDICATED ON THE PLANS MAY REQUIRE RECALCULATION OF TITLE 24 DOCUMENTS. IF THE CONTRACTOR CHOOSES TO UTILIZE SUCH EQUIPMENT, HE/SHE ASSUMES FULL RESPONSIBILITY FOR THE RECALCULATION AND JURISDICTIONAL APPROVAL OF TITLE 24 DOCUMENTS. A SUBSTITUTION OF EQUIPMENT OF A GREATER WEIGHT OR OF DIFFERENT DIMENSIONS WHICH AFFECTS STRUCTURAL DETAILS OR SUPPORTS MUST BE APPROVED BY DSA IN A CCD. PRIOR TO CONSTRUCTING THE WORK OR INSTALLING THE EQUIPMENT, CONTRACTORS ARE RESPONSIBLE TO PROVIDE ALL REQUIRED DOCUMENTATION FOR DSA REVIEW AND APPROVAL DESIGN CHANGES, AND REVISIONS TO MOUNTING DETAILS IS NOT INCLUDES IN OUR SCOPE OF WORK.
- IF THE CONTRACTOR'S USE OF SUBSTITUTE MATERIAL, EQUIPMENT OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST IS THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.
- SUBMITTALS: APPROVAL OF THE SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO FULLY COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
- CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT.
- ALL HOSE BIBBS SHALL BE EQUIPPED WITH VACUUM BREAKER.
- VERIFY SIZE, LOCATIONS, DEPTH AND WATER PRESSURE OF BLDG. PLUMBING UTILITIES WITH CIVIL ENGINEER.
- DOMESTIC WATER HEATER SHALL BE SEISMICALLY SECURED TO BLDG. STRUCTURE WITH ADEQUATE STRUCTURAL SUPPORT AND ANCHOR BOLTS TO WITHSTAND 0.2g LATERAL AND VERTICAL LOAD.
- ALL CONDENSATE DRAIN PIPING FROM EQUIPMENT WITHIN BLDG. SHALL BE COPPER AND INSULATED INCLUDING ELBOWS, TEES AND OTHER FITTINGS. INSULATION SHALL BE CONTINUOUS THROUGH ROOF, STUDS AND ANY OTHER BLDG. STRUCTURAL MEMBERS.
- NO PLUMBING SHALL BE INSTALLED UNTIL ALL REQUIRED PLUMBING PLAN CHECK PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REQUIRED AGENCIES.
- PROVIDE ALL TAILPIECES, TRAPS AND SUPPLY PIPING TO LAVATORIES DESIGNED AS ACCESSIBLE WITH PREFORMED INSULATION JACKET.
- COORDINATE AND SCHEDULE TIMING WITH SCHOOL DISTRICT FOR UTILITY SERVICE DISCONNECTION AND CONNECTION.
- ALL LINES BELOW SLAB ON GRADE TO BE LOCATED AWAY FROM ALL LOAD BEARING FOOTINGS.
- ANY STRUCTURAL FIREPROOFING DAMAGED DURING INSTALLATION OF PLUMBING EQUIPMENT, PIPING, ETC. SHALL BE REPAIRED AT NO COST TO THE OWNER. REPAIR SHALL BE DIRECTED BY THE ARCHITECT.
- PRIOR TO INSTALLATION OF TRAP PRIMERS, WATER HAMMERS AND SHUT-OFF VALVES ABOVE CEILING COORDINATE EXACT LOCATION OF REQUIRED ACCESS DOORS WITH ARCHITECT OF RECORD.
- PAINT ALL EXPOSED COPPER PIPE, VERIFY COLOR WITH ARCHITECT OF RECORD.
- PAINT ALL EXPOSED GAS PIPE. VERIFY COLOR WITH ARCHITECT OF RECORD.
- INSTALL VALVES WITH UNIONS OR FLANGES AT EACH PIECE OF EQUIPMENT AND ARRANGE TO ALLOW SERVICES, MAINTENANCE, AND EQUIPMENT REMOVAL WITHOUT SYSTEM SHUT-DOWN.
- ALL DHW AND DHWR PIPING INCLUDING PIPING INSIDE THE WALL SHALL BE INSULATED.
- DCW PIPE WITHIN 5 FEET OF WATER HEATER SHALL BE INSULATED.

PLUMBING SYMBOLS & ABBREVIATIONS

SYMBOLS	ABBREV.	DESCRIPTION
---	DCW	DOMESTIC COLD WATER PIPING
---	SW	SOIL / WASTE PIPE
---	V	VENT PIPING
---CD---	V	CONDENSATE DRAIN
G	G	LOW PRESSURE GAS
MPG	MPG	MEDIUM PRESSURE GAS
P&T	P&T	PRESSURE & TEMPERATURE RELIEF PIPING
SD	SD	STORM DRAIN PIPING
POC	POC	POINT OF CONNECTION
[Symbol]		REMOVE EXISTING EQUIPMENT OR PIPING
[Symbol]	CKV	CHECK VALVE
[Symbol]	BLV	BALANCING VALVE
[Symbol]	PRV	PRESSURE REDUCING VALVE
[Symbol]	BV	BALL VALVE
[Symbol]	ANV	ANGLE VALVE
[Symbol]	P & T	PRESSURE AND TEMPERATURE RELIEF VALVE
[Symbol]	BFP	BACK FLOW PREVENTER
[Symbol]	GCK	GAS COCK
[Symbol]	STR	STRAINER
[Symbol]	CL	CAPPED LINE
[Symbol]	DN	DOWN OR DROP
[Symbol]	UP	RISE OR RISER
[Symbol]	PG	PRESSURE GAUGE WITH BALL VALVE
[Symbol]	FC	FLEXIBLE CONNECTION (PIPE)
[Symbol]	TI	THERMOMETER
[Symbol]	U	UNION
[Symbol]	HB	HOSE BIBB
[Symbol]	WHA	WATER HAMMER ARRESTOR
[Symbol]	WCO	WALL CLEAN OUT
[Symbol]	CO	CLEAN OUT
[Symbol]	FCO	FLOOR CLEAN OUT
[Symbol]		SYMBOL, SEE EQUIPMENT SCHEDULE
[Symbol]	POD	POINT OF DISCONNECT
[Symbol]	FD	FLOOR DRAIN
[Symbol]		PIPING OR EQUIPMENT TO BE DEMOLISH
[Symbol]	SOV	SHUT-OFF VALVE
[Symbol]		GAS PRESSURE REGULATOR

ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTE:
ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1, 18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

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

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

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

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:
PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

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

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

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED OPM#.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- OPTION 3: SHALL COMPLY WITH SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDE ANY ADDENDA, FASTENERS AND OTHER AMENDMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL. OSHPD EDITION ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL "C" AND CONNECTION LEVEL "1" FOR THE PROJECT AND CONDITIONS.

PLUMBING ABBREVIATIONS

ABBREV.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ARCH.	ARCHITECTURAL
B/F	BELOW FLOOR
B/G	BELOW GRADE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT (PER HOUR)
CFH	CUBIC FEET (PER HOUR)
CLG	CEILING
CONC	CONCRETE
CONN	CONNECT
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
CD	CONDENSATE DRAIN
DWGS.	DRAWINGS
ELECT	ELECTRICAL
ELEV	ELEVATION
EXIST.(E)	EXISTING
F	DEGREES FAHRENHEIT
FS	FLOOR SINK
FT	FEET OR FOOT
FU	FIXTURE UNIT
FV	FLUSH VALVE
GA	GAUGE
GALV	GALVANIZED
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
HB	HOSE BIBB
HR	HOUR
IE	INVERT ELEVATION
IW	INDIRECT WASTE
LBS	POUNDS
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
(N)	NEW
(NS)	NOT TO SCALE
OF	OVER FLOW DRAIN
ORD	OVER FLOW ROOF DRAIN
POD	POINT OF DISCONNECT
QTY.	QUANTITY
RD	ROOF DRAIN
REF	REFERENCE
SOV	SHUT OFF VALVE
SPEC.	SPECIFICATION
STRUCT	STRUCTURAL
TEMP.	TEMPERATURE
TYF	TYPICAL
V/PH/Hz	VOLTS/PHASE/HERTZ
V	VENT
VR	VENT RISER
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET

REQUIREMENTS FOR SHOP DRAWINGS

PRIOR TO CONSTRUCTION PROVIDE ORIGINALLY PREPARED CONTRACTOR'S SHOP DRAWINGS IN ELECTRONIC FORMAT. IN ADDITION TO THE REQUIREMENTS SPECIFIED IN SPECIFICATIONS, THE SHOP DRAWINGS SHALL INCLUDE AND NOT LIMITED TO THE FOLLOWING:

- DUCT, PIPE AND PLUMBING ELEVATIONS.
- ACTUAL SIZE OF PURCHASED EQUIPMENT AND FIXTURES, PER APPROVED CONTRACTOR'S SHOP DRAWINGS.
- ACCESS PANELS, INCLUDING CEILING PANELS, COORDINATED WITH ARCHITECT OF RECORD.
- ACCESS CLEARANCES FOR EQUIPMENT AND FIXTURES.
- ACTUAL LOCATIONS OF SHUT-OFF VALVES, WITH ACCESS COORDINATED WITH ARCHITECT OF RECORD.
- LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS IN RELATION TO ALL PLUMBING SYSTEMS AND HVAC SYSTEMS.
- COLOR CODED PIPING BASED ON MATERIAL USED, SHOW OTHER SYSTEMS SUCH AS HVAC AND ELECTRICAL TO INSURE THERE ARE NO CONFLICT.
- MINIMUM 1/4"-1'-0" SCALE DRAWINGS.
- LABEL AND TAG SCHEDULE FOR EQUIPMENT
- PIPE LOCATION TO CLEAR BEAMS OR TIGHT AREAS.
- POINT OF CONNECTION TO UTILITIES OUTSIDE THE BUILDING, WITH INVERT ELEVATION COORDINATED WITH CIVIL.
- SECTIONS OR 3-D DRAWINGS OF CONGESTED AREAS.
- GRID LINES.
- UTILITY PROFILES FOR UNDERGROUND PIPING, COORDINATE WITH CIVIL.
- DO NOT COMMENCE WITH ANY INSTALLATION, DEMOLITION OR ORDERING OF ANY EQUIPMENT OR MATERIAL FABRICATION WITHOUT AN APPROVED SHOP DRAWING SUBMITTAL.

PLUMBING SYSTEMS T-24 COMPLIANCE

- WATER CLOSETS SHALL NOT CONSUME MORE THAN 1.28 GALLONS PER FLUSH. URINALS SHALL NOT CONSUME MORE THAN 0.125 GALLON PER FLUSH. BOTH FIXTURES SHALL BE LISTED ON THE WATER AUTHORITY "LIST OF APPROVED LOW CONSUMPTION FIXTURES".
- ALL LAVATORY FAUCETS SHALL DISCHARGE A MAXIMUM OF 0.5 GPM/ 0.2 GPC FOR METERING FAUCETS
- ALL SINK FAUCETS SHALL DISCHARGE A MAXIMUM OF 1.8 GPM.
- ALL WATER HEATERS SHALL COMPLY WITH 2016 CPC SECTION 608.5
- PLUMBING PIPING SYSTEM SHALL BE INSULATED PER BUILDING ENERGY EFFICIENCY STANDARDS SECTION 120.3
- DOMESTIC HOT WATER HEATERS SHALL COMPLY WITH THE 2016 BUILDING ENERGY STANDARD CODE SECTION 100.1, 150.0 AND 150.1.

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P2.1	PLUMBING FLOOR PLAN (WASTE & VENT)
P3.0	PLUMBING ROOF PLAN
P4.0	PLUMBING ISOMETRIC DIAGRAMS
P5.1	PLUMBING DETAILS

IDENTIFICATION STAMP
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APP. 04-118742 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02.05.20

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LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

PLUMBING LEGEND & GENERAL NOTES

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PLUMBING FIXTURE CONNECTION SCHEDULE

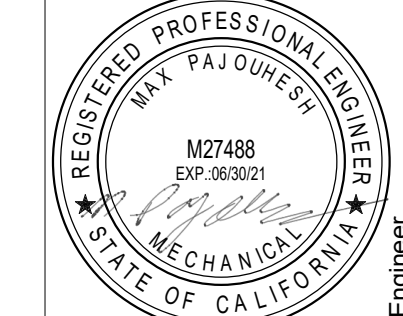
SYMBOL	DESCRIPTION	MOUNTING	MIN. CONNECTION SIZE				REMARKS
			WASTE	VENT	DCW	DHW	
WC 1	WATER CLOSET: ADA COMPLIANT- KOHLER "HIGHCLIFF ULTRA" MODEL # K-96057-SSL, ELONGATED BOWL, VITREOUS CHINA, ANTIMICROBIAL FINISH WITH 1-1/2" TOP SPUD. PROVIDE DUAL FLUSH FLUSHOMETER SLOAN MODEL #WES-111 DIAPHRAGM TYPE, CHROME PLATED, LIFT HANDLE 1.1 GPF AND PUSHING HANDLE DOWN 1.6 GPF. SEAT SHOULD BE 5/8" RING THICKNESS, ELONGATED OPEN FRONT LESS COVER, EXTRA HEAVY WEIGHT AND INJECTION MOLDED OF SOLID PLASTIC, OLSONITE #95CT, OR EQUAL. RIM MOUNTING HEIGHT 16-5/8" AFF.	WALL	4"	2"	1"	--	(1)5(6)7
LAV 1	LAVATORY: ADA COMPLIANT - KOHLER "HUDSON" MODEL # 2805, WALL HUNG LAVATORY. PROVIDE WITH CHICAGO FAUCET # 807-E2805-665PSHAB DECK MOUNTED SINGLE HOLE INLET METERING SINK FAUCET. 0.5 GPM, VANDAL PROOF, COLD WATER ONLY, NON-AERATING SPRAY, METERING PUSH BUTTON AND LEAD FREE. SET METERING FAUCET TO DISCHARGE 0.2 GPC FOR WATER FLOW.	WALL	2"	1-1/2"	1/2"	--	(1)2(3)4(5)7
S 1	SINK: ADA COMPLIANT -JUST MANUFACTURING MODEL # SL-ADA-17519-A-GR. 18 GAUGE TYPE 304 STAINLESS STEEL, LEDGE TYPE-SINGLE BOWL, SINGLE HOLE CENTER WITH CHICAGO FAUCET MODEL # 350-E35VP317XKABCP SINGLE HOLE SWING GOOSENECK SPOUT, 1.5 GPM AERATOR, 4" VANDAL PROOF WRISTBLADE HANDLE AND LEAD FREE.	COUNTER	2"	1-1/2"	1/2"	--	(1)2(3)4(5)7(9)
S 2	SINK: ADA COMPLIANT -JUST MANUFACTURING MODEL # C12AF-ADA-1931-A-GR-VRL-CT. TYPE 304, 18-8 STAINLESS STEEL, SELF RIMMING TOP MOUNT WITH 300 SERIES STAINLESS STEEL MOUNTING CHANNELS AND INTEGRA-FLOW SYSTEM WITH VANDAL RESISTANT JSFUR-5 FAUCET, JSB-10UR BUBBLER AND J-ADA-35-SSR-UR DRAIN SYSTEM.	COUNTER	2"	1-1/2"	1/2"	--	(1)2(3)4(5)7(9)
HB 1	HOSE BIBB: ACORN MODEL # 8151-SSLF, STAINLESS STEEL RECESSED HOSE BOX WITH WALL FLANGE, DOOR, REMOVABLE WHEEL HANDLE AND VACUUM BREAKER. INLET IS 3/4" NPT FEMALE OUTLET IS 3/4" MALE HOSE THREAD.	WALL	--	--	3/4"	--	(1)3(7)
HB 2	HOSE BIBB: ZURN MODEL # Z1388XL-VB. NON-FREEZE ROOF DYDRANT WITH DURA COTED CAST IRON HEAD AND LIFT HANGDLE WITH LOCK OPTION. 1/8" TAPPED DRAIN PORT ON HOUSING, DURA COATED CAST IRON ROOF SUPPORT SLEEVE, WIDE AHCHORING FLANGE AND CLAMP COLLAR. 3/4" HOSE CONNECTION WITH BACKFLOW PREVENTER, LEAD FREE AND VACUUM BREAKER.	ROOF	--	--	3/4"	--	(1)3(7)
FD 1	FLOOR DRAIN: ZURN MODEL # Z415B-113, CAST IRON BODY WITH BOTTOM OUTLET, POLISHED NICKEL BRONZE STRAINER. 1/4" MAX. GRATE OPENING PER CBC 11B-608.9.	FLOOR	3"	1-1/2"	--	--	(1)7
RD 1	ROOF DRAIN: "JAY R. SMITH" MODEL # 1800. DUCO CAST IRON BODY WITH DOUBLE DECK PLATE WITH SECURING HOLES, COMBINED FLASHING CLAMP AND GRAVEL STOP FOR ROOF DRAIN AND EXTERNAL 2" WATER DAM FOR OVERFLOW DRAIN AND CAST IRON DOME. FOR PIPE SIZE CONNECTION, SEE FLOOR PLANS.	ROOF	--	--	--	--	(1)7(8)
ORD 1	OVERFLOW ROOF DRAIN DOWNSPOUT: "J.R. SMITH" MODEL #1770 WITH CAST BRONZE NOZZLE AND FLANGED.	WALL	--	--	--	--	(1)7(8)
WHA 1	WATER HAMMER ARRESTOR: WATTS SERIES LF15M2 WATER HAMMER ARRESTOR, COPPER BODY AND LEAD FREE.	--	--	--	--	--	(1)3(7)
TP 1	TRAP PRIMER: WATTS SERIES LFTP300 WITH BUILT IN VACCUM BREAKER LEAD FREE. MOUNT INSIDE THE WALL AND PROVIDE ACCESS DOOR PANEL AT HEIGHT PER MANUFACTURER'S GUIDE LINES. COORDINATION WITH ARCHITECT.	--	--	--	1/2"	--	(1)3(7)

- 1 PROVIDE REQUIRED MOUNTING HARDWARE AND DRAIN FOR COMPLETE INSTALLATION PER MANUFACTURED INSTALLATION GUIDE LINE.
- 2 PROVIDE THREADED FITTING STOP VALVE.
- 3 PLUMBING FIXTURES SHALL COMPLY WITH LEAD LAW (AB1953)
- 4 DRAIN, AND ALL WATER SUPPLY PIPES ACCESSIBLE UNDER FIXTURES SHALL BE INSULATED OR COVERED AND THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER FIXTURES PER CBC 11B 606.5
- 5 MOUNT PLUMBING FIXTURES AT ACCESSIBLE HEIGHT. SEE ARCHITECTURAL DRAWINGS.
- 6 WATER CLOSET WITH FLUSH HANDLE SHOULD BE IN THE WIDE SIDE OF THE ROOM. VERIFY AND PROVIDE AS REQUIRED. CONTRACTOR SHALL VERIFY AND ORDER ACCORDINGLY. MAKE ADJUSTMENT TO ROUGH-IN AS REQUIRED.
- 7 CONTRACTOR TO VERIFY AND INSTALL PLUMBING FIXTURES AS NOTED OR APPROVED EQUAL.
- 8 FOR ROOF DRAIN AND OVERFLOW PIPE SIZE, SEE FLOOR PLANS.
- 9 PRIOR TO PURCHASING SINKS, VERIFY SINK AND COUNTER TOP DIMENTIONS FOR PROPER FITTING.

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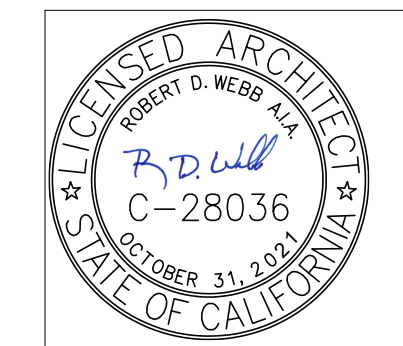
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ARCHITECTURE + ENGINEERING

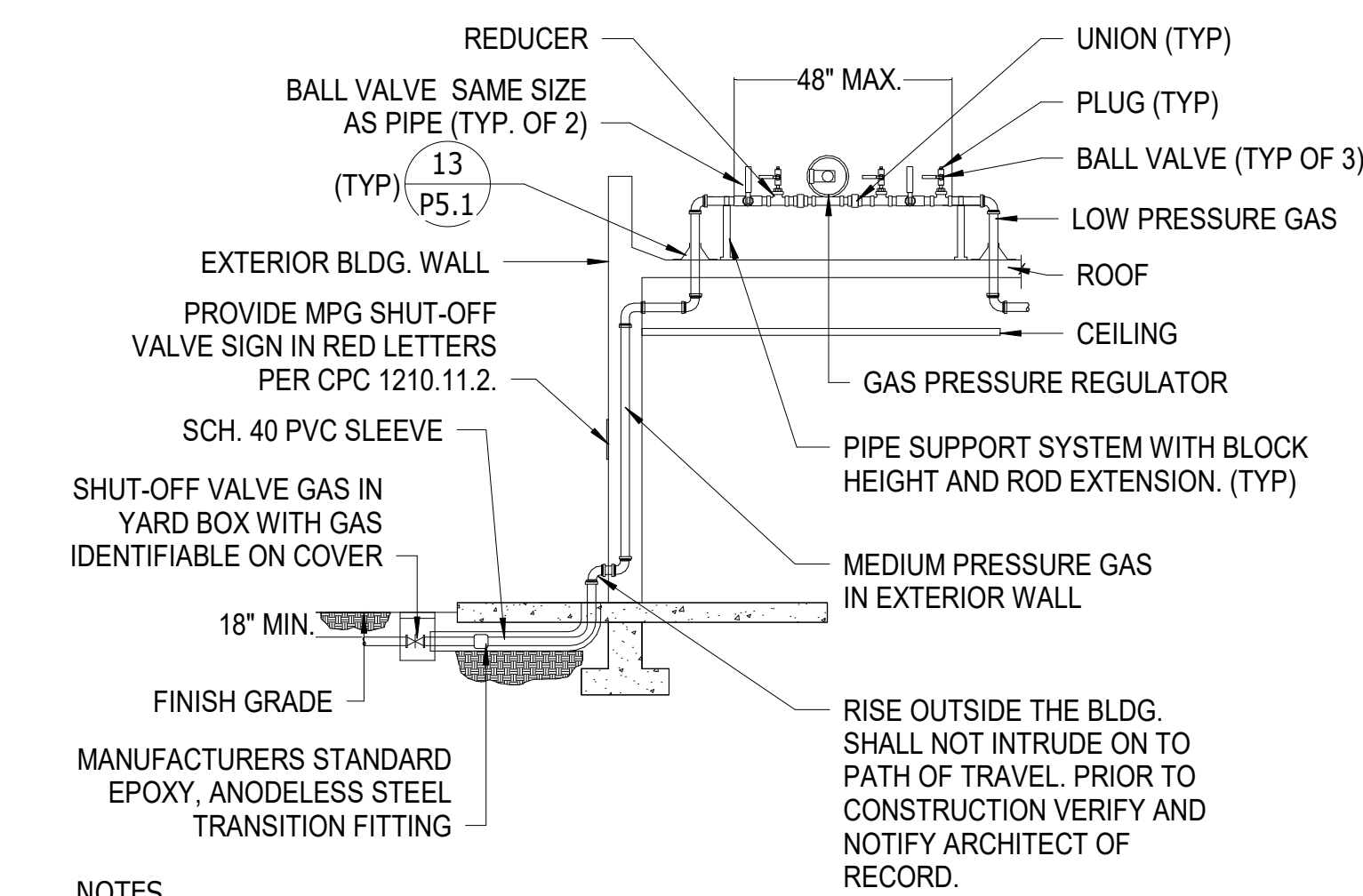
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PROSPECT AVENUE ELEMENTARY
SCHOOL
LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

Drawn: RA
Checked: MP
Date:
Job: SSD-SC-03

P0.2



- NOTES**
1. INSTALLATION OF GAS PRESSURE REGULATOR ASSEMBLY, SHALL COMPLY WITH SOUTHER CALIFORNIA GAS CO. "POUND DELIVERY SYSTEM STEP DOWN REGULATOR MINIFOLD".
 2. MANIFOLD MUST BE INSTALLED NO HIGHER THAN APPROXIMATELY 48".
 3. HEIGHT OF GAS PIPE FROM ROOF LINE SHALL NOT EXCEED 12 INCHES.
 4. PROVIDE MPG SHUT-OFF VALVE SIGN REQUIRED PER CPC 1210.11.2. FOR EXACT LOCATION REFER TO ARCHITECTURAL DRAWINGS.

GAS PRESSURE REGULATOR DETAIL

SCALE: NTS

MPG PIPE SIZING PER CPC 2016 TABLE 12-11		
TOTAL DEVELOP LENGTH	PIPE SIZE	GAS CAPACITY (MBH)
900'-0"	3/4"	584
900'-0"	1"	1,100
900'-0"	1-1/4"	2,260
900'-0"	1-1/2"	3,380

GAS DEMAND		
BUILDING	(E) GAS LOAD MBH	(N) GAS LOAD (MBH)
(E) BLDG. A	525	--
(E) BLDG. B	306	--
(E) BLDG. C	408	--
(E) BLDG. D	150	--
(E) BLDG. E	817	--
(E) BLDG. F	00	--
(E) BLDG. G	330	--
(N) BLDG.	--	264
TOTAL	2536	264

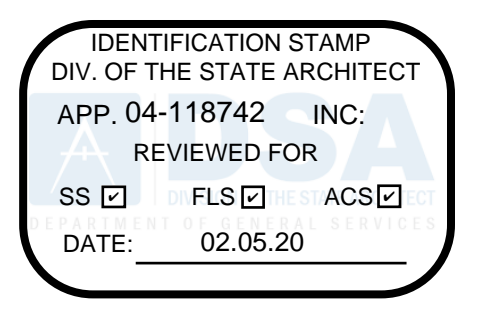
GRAND TOTAL SCHOOL CAMPUS NEW GAS LOAD = 2800 MBH

GAS INFORMATION	
MEDIUM PRESSURE GAS TDL: 900'-0" NEW BLDG. GAS LOAD: 264 MBH GAS PIPE REQ: 3/4"	

LEGEND AND ABBREVIATIONS	
(E) MPG	EXISTING MEDIUM PRESSURE GAS
MPG	MEDIUM PRESSURE GAS
MBH	1000 BTU (PER HOUR).
BTU	BRITISH THERMAL UNITS (PER HOUR)
TDL	TOTAL DEVELOPMENT LENGTH
---	(E) GAS PIPE BELOW GROUND
---	(N) GAS PIPE BELOW GROUND

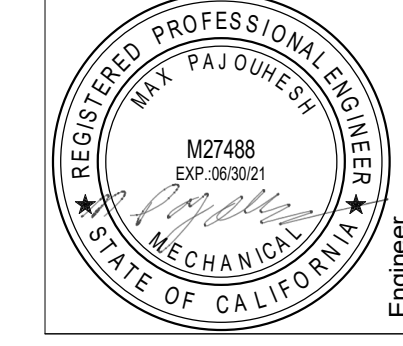
- | GENERAL NOTES | |
|---------------|--|
| 1. | FIELD VERIFY EXACT POINT OF CONNECTION. |
| 2. | EXISTING METER, GAS PRESSURE REGULATORS, MPG PIPE, SIZES, FITTINGS AND EXISTING GAS BLDG. LOADS ARE EXISTING AND PER AS-BUILT DRAWINGS. |
| 3. | EXISTING SYSTEMS SHALL REMAIN OPERATIONAL IN BLDGS. AND RELOCATABLES THAT WILL REMAIN IN PLACE. |
| 4. | PRIOR TO RENOVATION/TRENCHING, FIELD SURVEY UNDERGROUND UTILITY DETECTOR/LOCATOR AND LOCATE ALL EXISTING UNDERGROUND UTILITIES ALONG THE NEW UNDERGROUND PIPING. EMPLOY "CPL" OR SIMILAR COMPANY. REPORTS SHALL INCLUDE TYPE OF UTILITIES AND INVERT ELEVATIONS. |
| 5. | FIELD VERIFY EXACT LOCATION OF EXISTING MPG PIPE BELOW AND GROUND AND SIZE PRIOR TO START OF RENOVATION WORK. |
| 6. | ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OF RECORD IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID. |
| 7. | PRIOR TO SHUTTING OFF GAS SUPPLY TO ANY BUILDING COORDINATE AND NOTIFY AND SCHEDULE WITH THE DISTRICT PROJECT MANAGER AND SCHOOL PRINCIPAL. |

- | KEYNOTES | |
|----------|---|
| ① | 1" MEDIUM PRESSURE GAS PIPE POINT OF CONNECTION TO EXISTING GAS PIPE BELOW THE GROUND. PROVIDE MPG SHUT-OFF VALVE BELOW THE GROUND IN A YARD BOX AT POC. FIELD VERIFY EXACT POINT OF CONNECTION. SEE GENERAL NOTE #4 ON THIS SHEET. |
| ② | EXISTING MPG PIPE BELOW THE GROUND SHALL REMAIN IN PLACE AND PROTECTED. |
| ③ | 3/4" MEDIUM PRESSURE GAS PIPE BELOW THE GROUND. |
| ④ | EXISTING RELOCATABLES SHALL BE DEMOLISHED PER SCOPE OF WORK, REFER TO ARCHITECTURAL DRAWINGS. |
| ⑤ | EXISTING METER SHALL REMAIN IN PLACE AND OPERATING. |

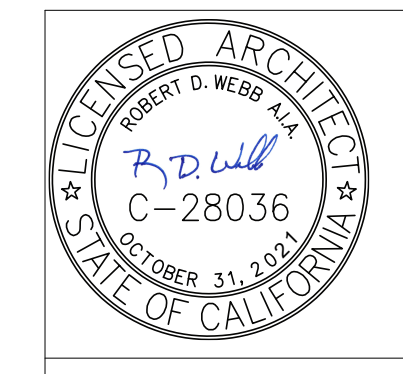


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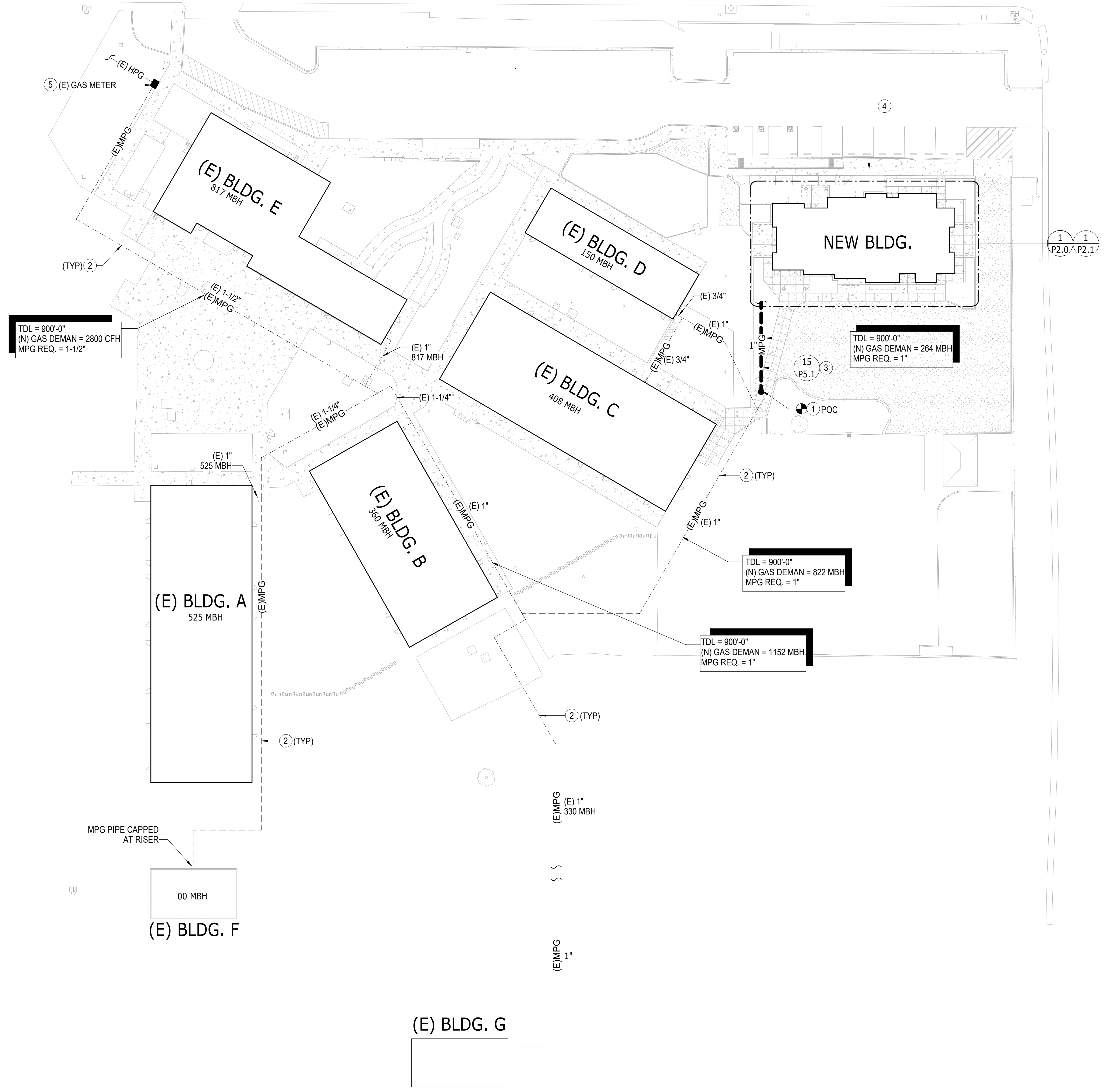


PROSPECT AVENUE ELEMENTARY SCHOOL
LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

PLUMBING SITE PLAN

Drawn: RA
Checked: MP
Date:
Job: SSD-SC-03

P1.1



DCW DEMAND

(2016 CPC, TABLE A-103.1)

FIXTURE	QUANTITY	F.U.	TOTAL F.U.
WATER CLOSET	1	4	5
LAVATORY SYSTEM	1	1	1
SINKS	2	2	4
HOSE BIBB	1	2.5	2.5
HOSE BIBB each additional	6	1	6
TOTAL			18.5

FROM APPENDIX "A" CHART A-3 : 18.5 F.U. = 34 GPM
FROM CHART A-5 AT 4 PSI FRICTION LOSS / 100 FOOT LENGTH,
PIPE SIZE REQUIRED: 1-1/2".

GENERAL NOTES

- FIELD VERIFY EXACT POINT OF CONNECTION. POINT OF CONNECTION SHALL BE BETWEEN PLUMBING AND CIVIL. PRIOR TO CONSTRUCTION COORDINATE AND CONFIRM ALL UTILITIES POC AND INVERT ELEVATIONS WITH CIVIL. PROVIDE SHOP DRAWING THAT SHALL INCLUDE, VERIFICATION AND COORDINATION WITH CIVIL.
- FOR PIPE SIZES AND PLUMBING FIXTURES REFER TO PLUMBING SCHEDULE, SHEET P0.2.
- PROVIDE AND INSTALL P-TRAP COVERS FOR ALL LAVATORIES AND SINKS WITH BURNING CHARACTERISTICS IN COMPLIANCE WITH ASTM D633 "PROFLOW" MODEL #PF202WH OR EQUAL.
- ALL WATER SUPPLY PIPES ACCESSIBLE UNDER FIXTURES SHALL BE INSULATED OR COVERED PER 2016 CBC 11B-606.5.
- COORDINATE WITH THE ARCHITECT OF RECORD FOR EXACT LOCATION AND ELEVATION OF HOSE BIBS TRAP PRIMERS AND WATER HAMMERS ARRESTOR. PROVIDE SHOP DRAWINGS.
- COORDINATE EXACT LOCATION OF ALL GAS PIPE RISERS WITH MECHANICAL CONTRACTOR AND EQUIPMENT PROCURED.
- ENSURE THAT THERE IS NOT ANY EXPOSE PIPES IN THE SPACE. PRIOR TO INSTALLATION. PROVIDE SHOP DRAWINGS FOR CONFIRMATION.
- ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OF RECORD IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID DOCUMENTS.
- FOR GAS PIPE ISOMETRIC DIAGRAM SEE 1/P4.0 AND 2/P4.0.

KEYNOTES

- 1-1/2" DCW POINT OF CONNECTION BETWEEN CIVIL AND PLUMBING. FIELD VERIFY EXACT POINT OF CONNECTION.
- PROVIDE DCW SHUT-OFF VALVE AND PRESSURE REGULATOR ASSEMBLY BELOW GROUND IN A YARD BOX.
- 1-1/2" DCW UP IN WALL AND BRANCH 3/4" DCW TO SERVE RECESSED HOSE BIBB.
- 3/4" DCW UP THRU ROOF TO CONNECT TO HOSE BIBB. FOR CONTINUATION SEE P3.0.
- 3/4" DCW DOWN IN WALL TO CONNECT TO HOSE BIBB.
- PROVIDE ACCESS DOOR FOR WATER HAMMER. COORDINATE WITH ARCHITECT OF RECORD FOR EXACT LOCATION.
- 1" MEDIUM PRESSURE GAS PIPE BELOW THE GROUND. FOR CONTINUATION SEE P1.1 SITE PLAN.
- PROVIDE MEDIUM PRESSURE SHUT-OFF VALVE BELOW THE GROUND IN A YARD BOX. FIELD VERIFY EXACT LOCATION.
- 1" MPG GAS FROM BELOW GROUND RISE UP OUT SIDE THE BLDG TO MISS BLDG. FOOTING AND THEN IN WALL TO ABOVE CEILING.
- 1" MPG GAS ABOVE CEILING AND UP THRU ROOF. FOR CONTINUATION SEE P3.0.
- 1-1/2" GAS DOWN THRU ROOF FROM GAS PRESSURE REGULATOR. FOR CONTINUATION SEE P3.0.
- GAS PIPE UP THRU ROOF TO CONNECT TO AC UNITS ON THE ROOF. FOR CONTINUATION SEE P3.0.
- GAS PIPE ABOVE THE CEILING. PIPE SHALL BE SUPPORTED AND SEISMICALLY BRACED PER DETAIL 10811/P5.1.
- DCW ABOVE THE CEILING.
- 1-1/4" DOWN IN PLUMBING CHASE TO CONNECT TO PLUMBING FIXTURES. PROVIDE SHUT-OFF VALVE IN PIPE RISER WITH ACCESS DOOR PANEL. COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF ACCESS DOOR PANEL.
- PROVIDE "SHUT-OFF VALVE" SIGN ON THE WALL PER CPC 1210.11.2. REFER TO ARCHITECTURAL DRAWINGS 15/A10.1 FOR EXACT LOCATION.

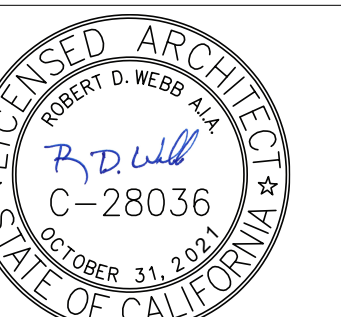
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APP. 04-118742 INC.
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PROSPECT AVENUE ELEMENTARY
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SANTEE SCHOOL DISTRICT

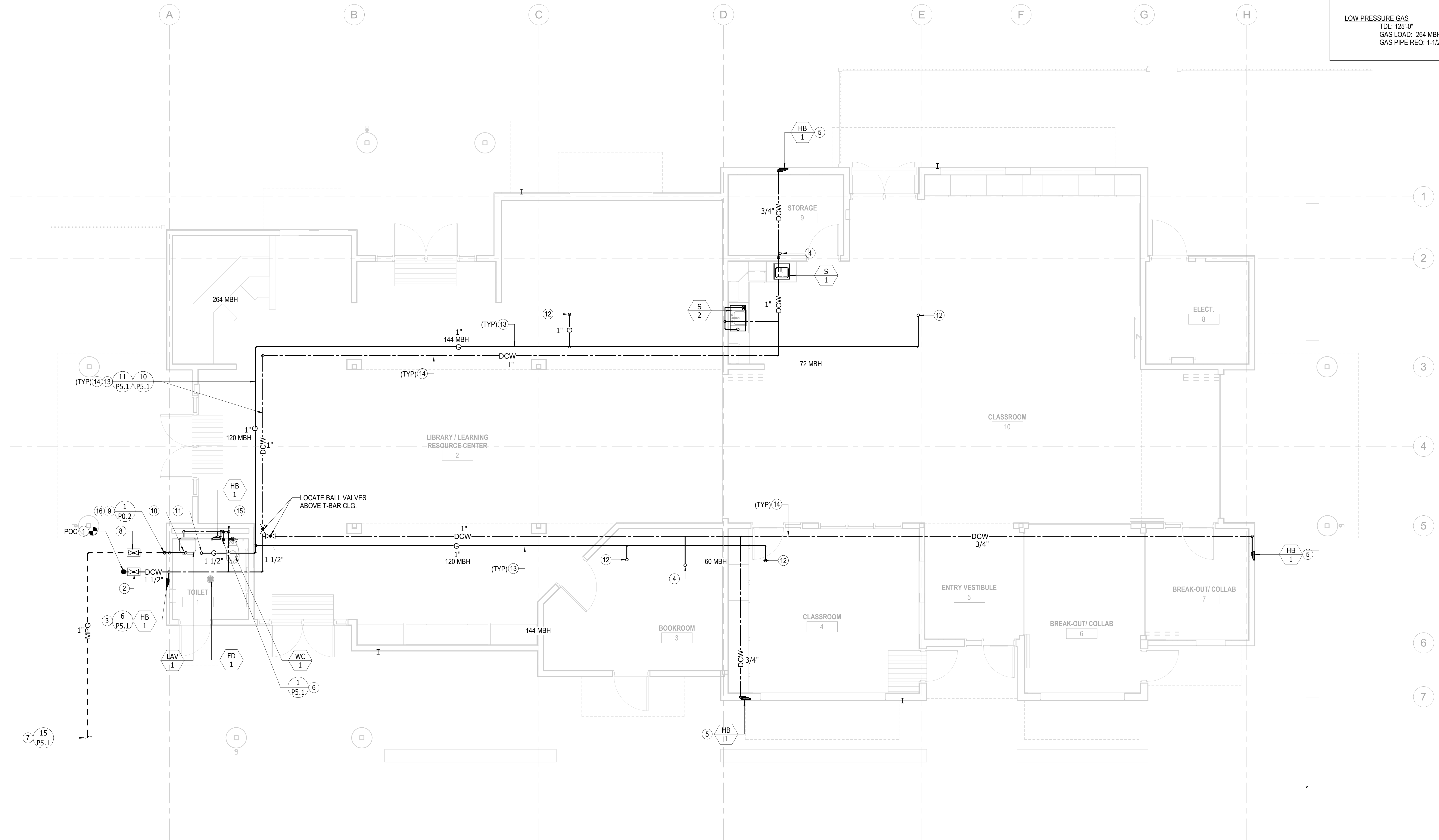
**PLUMBING FLOOR
PLAN (WATER &
GAS)**

Drawn:
RA
Checked:
MP
Date:
Job:
SSD-SC-03

P2.0

GAS INFORMATION

LOW PRESSURE GAS
TDL: 125'-0"
GAS LOAD: 264 MBH
GAS PIPE REQ: 1-1/2"



GENERAL NOTES

- FIELD VERIFY EXACT POINT OF CONNECTION AND COORDINATE WITH CIVIL. PRIOR TO CONSTRUCTION, COORDINATE AND CONFIRM ALL UTILITIES POINT OF CONNECTIONS AND INVERT ELEVATIONS WITH CIVIL. SHOP DRAWINGS SHALL INCLUDE VERIFICATION AND COORDINATION WITH CIVIL.
- FOR PIPE SIZES AND PLUMBING FIXTURES REFER TO PLUMBING SCHEDULE, SHEET P0.2.
- WASTE PIPE SHALL SLOPE AT MINIMUM 1/4" PER LINEAR FOOT.
- MAINTAIN A MINIMUM OF 10 FEET BETWEEN AC UNITS OUTSIDE AIR INTAKE AND PLUMBING VENTS. COORDINATE WITH MECHANICAL CONTRACTOR. ADJUST LOCATION OF VTRS AS REQUIRED.
- COORDINATE EXACT LOCATION OF ALL CD PIPE RISERS WITH MECHANICAL CONTRACTOR AND EQUIPMENT PROCURED.
- ALL CONDENSATE DRAIN PIPING INSIDE THE BUILDING SHALL BE COPPER AND INSULATED. SLOPE PIPE A MINIMUM OF 1/4" PER LINEAR FOOT. INSULATION SHALL BE CONTINUOUSLY THRU THE ROOF, THRU WALLS, INSIDE THE WALL'S AND CHASES.
- CONDENSATE DRAIN ABOVE THE CEILING SHALL NOT BE ROUTED ABOVE THE LIGHT FIXTURES.
- ENSURE THAT ROOF DRAIN PIPES AND VENT PIPE WOULD NOT BE EXPOSED IN THE SPACE. PRIOR TO INSTALLATION PROVIDE SHOP DRAWINGS FOR CONFIRMATION.
- PROVIDE P-TRAP COVERS FOR ALL LAVATORIES AND SINKS WITH BURNING CHARACTERISTICS AIN COMPLIANCE WITH ASTM D633 "PROFLOW" MODEL #PF202WH OR EQUAL.
- ROOF DRAIN AND OVERFLOW DRAIN SHALL SLOPE AT 1/4" PER LINEAR FOOT. PROVIDE A CLEAN OUT AT EVERY 135 DEGREE TURN REGARDLESS IF IS SHOWN OR NOT.
- ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OF RECORD IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID DOCUMENTS.
- FOR WASTE AND VENT ISOMETRIC DIAGRAMS SEE 3/P4.0.

KEYNOTES

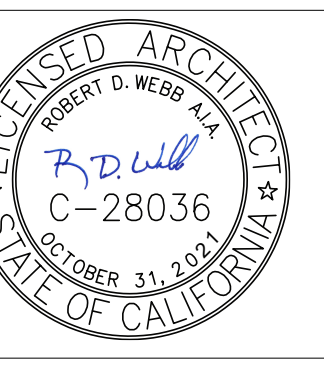
- 4" WASTE POINT OF CONNECTION BETWEEN PLUMBING AND CIVIL ENGINEER. FIELD VERIFY EXACT POINT OF CONNECTION.
- 3" WASTE POINT OF CONNECTION BETWEEN PLUMBING AND CIVIL ENGINEER. FIELD VERIFY EXACT POINT OF CONNECTION.
- 2" VTR. SHALL BE A MINIMUM OF 10 FEET A-WAY FROM AC UNITS OUTSIDE AIR INTAKE. COORDINATE EXACT LOCATION WITH MECHANICAL. ADJUST LOCATION AS NECESSARY.
- 1-1/2" VTR. SHALL BE A MINIMUM OF 10 FEET A-WAY FROM AC UNITS OUTSIDE AIR INTAKE. COORDINATE EXACT LOCATION WITH MECHANICAL. ADJUST LOCATION AS NECESSARY.
- INDIRECT DRAIN. FLOOR DRAIN SHALL BE PRIMED BY LAVATORY.
- 3/4" DRAIN UP THRU ROOF. FOR CONTINUATION SEE P3.0.
- CONDENSATE DRAIN ABOVE THE CEILING. CD PIPE SHALL BE INSULATED AND SLOPE AT 1/4" PER LINEAR FOOT.
- 3/4" CONDENSATE DRAIN DOWN IN WALL TO CONNECT TO THE P-TRAP OF SINK/LAVATORY.
- 3/4" INSULATED CONDENSATE DRAIN FROM FAN COIL UNIT. RISE UP PIPE AS HIGH AS POSSIBLE WITH CONDENSATE PUMP. ROUTE CD PIPE TO ABOVE THE CEILING. FOR CD PUMP INFORMATION, SEE MECHANICAL DRAWINGS.
- 3" ROOF DRAIN POINT OF CONNECTION BETWEEN PLUMBING AND CIVIL. PROVIDE 2-WAY CLEAN OUT AT POC. FIELD VERIFY EXACT POINT OF CONNECTION AND INVERT ELEVATION.
- 3" ROOF DRAIN AND OVERFLOW DRAIN UP THRU ROOF. FOR CONTINUATION SEE ROOF PLAN P3.0.
- 3" OVER FLOW DRAIN DOWN IN WALL. STUB OUT 18" ABOVE FINISH FLOOR.
- 3" ROOF DRAIN DOWN IN WALL TO BELOW THE GROUND. PROVIDE SLEEVE THRU FOOTING. REFER TO STRUCTURAL DETAIL 14/S1.1 FOR PIPE THRU FOOTING.
- PROVIDE SHEET METAL DRAIN PAN UNDER THE FC/CONDENSATE DRAIN PIPE AND SLOPE AT MINIMUM 1/2" PER LINEAR FOOT TOWARD DRAIN PIPE.
- 3/4" DRAIN PIPE DOWN IN WALL AND STUB OUT THE WALL AT 6 INCHES ABOVE GROUND AND ELBOW DOWN.

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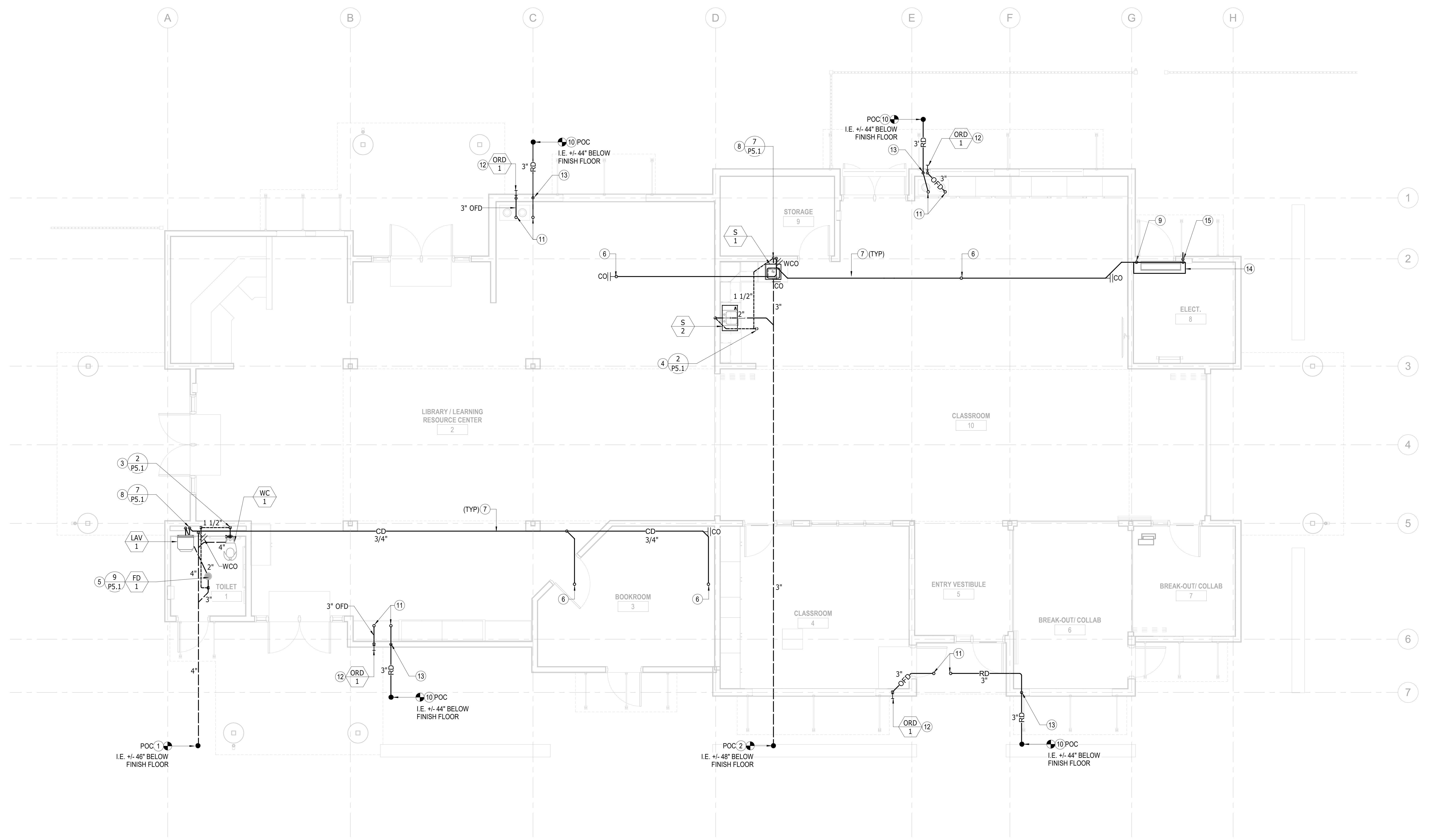


PROSPECT AVENUE ELEMENTARY
 SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

**PLUMBING FLOOR
 PLAN (WASTE &
 VENT)**

Drawn: RA
 Checked: MP
 Date:
 Job: SSD-SC-03

P2.1



GENERAL NOTES

1. MAINTAIN A MINIMUM OF 10 FEET BETWEEN AC UNITS OUTSIDE AIR INTAKE AND PLUMBING VENTS. COORDINATE WITH MECHANICAL CONTRACT. ADJUST VTR LOCATIONS AS REQUIRED.
2. ALL EXPOSED CONDENSATE DRAIN PIPING SHALL BE TYPE K COPPER AND PAINTED. SLOPE CONDENSATE DRAIN LINE AT A MINIMUM OF 1/4" PER LINEAR FOOT. INSULATION SHALL BE CONTINUOUSLY THRU THE ROOF, THRU WALLS, INSIDE THE WALLS AND CHASES.
3. COORDINATE EXACT LOCATION OF ALL GAS AND CD PIPE RISERS WITH MECHANICAL CONTRACTOR AND EQUIPMENT PROCURED.
4. SEE PLUMBING GAS DIAGRAM 1/P4.0 FOR BRANCH PIPE SIZES TO AC UNITS.
5. ALL EXPOSED PIPING SHALL BE PAINTED. COORDINATE COLOR WITH ARCHITECT OF RECORD. COMPLY WITH SPECS.
6. PROVIDE PIPE SUPPORT SYSTEM WITH BLOCK HEIGHT AND ROD EXTENSION FOR ALL PIPING ON THE ROOF. IF PIPE EXCEEDS 12" IN HEIGHT, PIPE SUPPORT MUST BE ANCHORED TO THE ROOF STRUCTURE. SEE 13/P5.1.
7. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OF RECORD IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID DOCUMENTS.

KEYNOTES

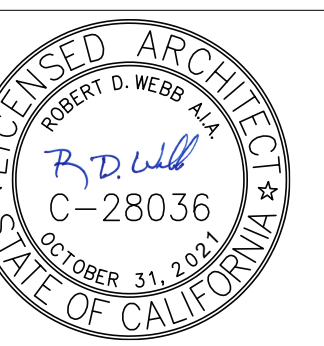
- ① 1-1/2" VENT THRU ROOF. MAINTAIN A MINIMUM OF 10 FEET BETWEEN AC UNITS OUTSIDE AIR INTAKE AND PLUMBING VENTS. COORDINATE WITH MECHANICAL CONTRACT. ADJUST VTR LOCATIONS AS REQUIRED
- ② 2" VENT THRU ROOF. MAINTAIN A MINIMUM OF 10 FEET BETWEEN AC UNITS OUTSIDE AIR INTAKE AND PLUMBING VENTS. COORDINATE WITH MECHANICAL CONTRACT. ADJUST VTR LOCATIONS AS REQUIRED
- ③ 3/4" DCW FROM BELOW THE ROOF AND TO CONNECT TO HOSE BIBB. SEE 1/P2.0 FOR CONTINUATION.
- ④ 3/4" CONDENSATE DRAIN DOWN THRU ROOF. FOR CONTINUATION SEE 1/P2.1.
- ⑤ GAS PIPE DOWN THRU THRU ROOF. FOR CONTINUATION, SEE 1/P2.0.
- ⑥ 3" ROOF DRAIN AND OVERFLOW DRAIN DOWN THRU ROOF. FOR CONTINUATION SEE 1/P2.1.
- ⑦ 1" MEDIUM PRESSURE GAS DOWN THRU ROOF FOR CONTINUATION SEE 1/P2.0.
- ⑧ PROVIDE GAS PRESSURE REGULATOR AND SHUT-OFF VALVE ABOVE ROOF. SIZE PRESSURE REGULATOR PER BLDG. GAS LOAD. VERIFY GAS PRESSURE UPSTREAM THE REGULATOR (BEFORE THE REGULATOR) AND PROVIDE THE INFORMATION TO THE MANUFACTURER INCLUDING GAS DEMAND TO VERIFY ORIFICE VALVE AND PRESSURE SPRING MODEL NUMBER.
- ⑨ 1-1/2" GAS PIPE DOWN THRU ROOF. FOR CONTINUATION SEE 1/P2.0.

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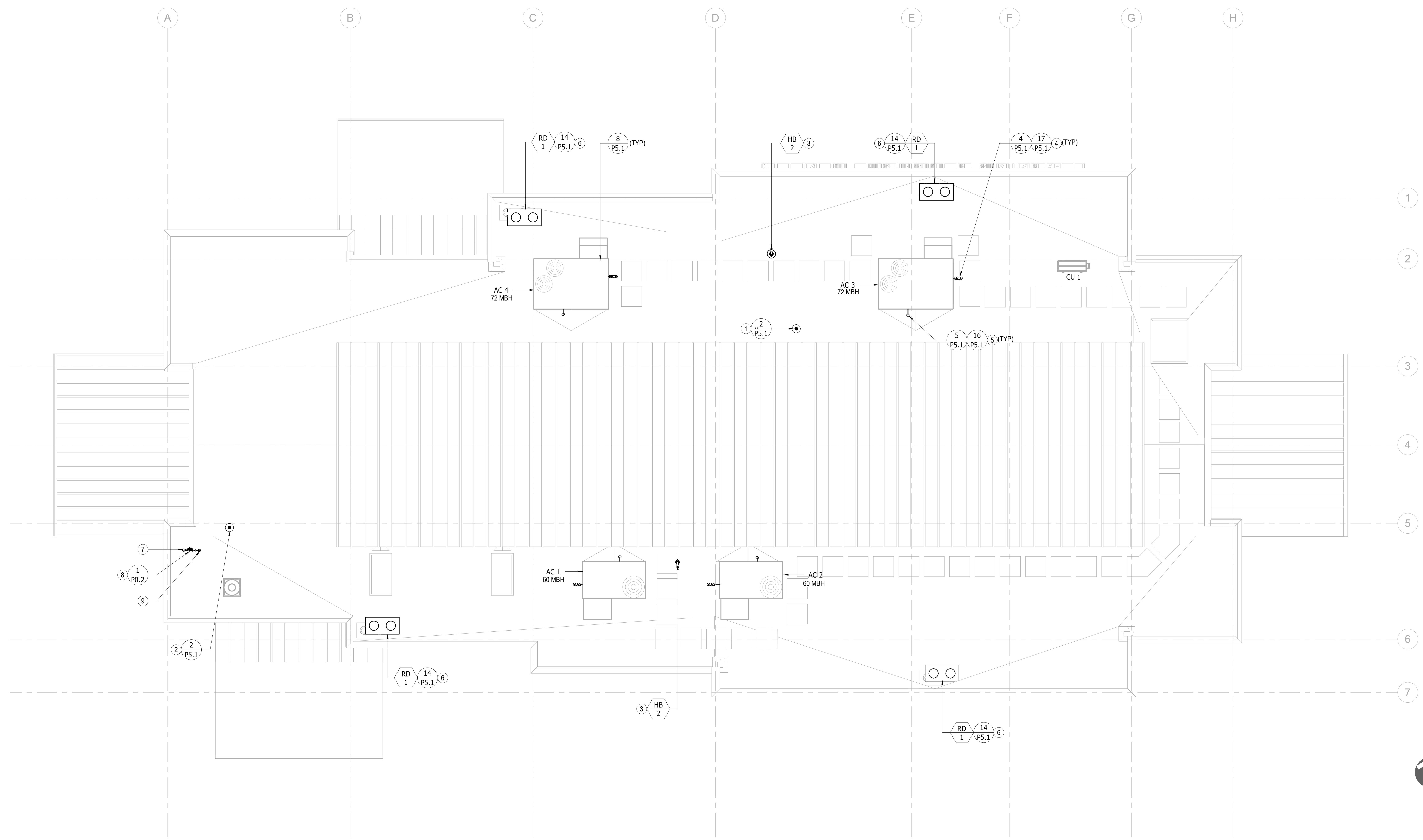


PROSPECT AVENUE ELEMENTARY
 SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

PLUMBING ROOF PLAN

Drawn: RA
 Checked: MP
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 Job: SSD-SC-03

P3.0



KEYNOTES

- 1 3/4" MEDIUM PRESSURE GAS PIPE BELOW THE GROUND. FOR CONTINUATION SEE P1.1.
- 2 PROVIDE MPG SHUT-OFF VALVE BELOW THE GROUND IN A YARD BOX. FIELD VERIFY EXACT LOCATION.
- 3 PROVIDE GAS PRESSURE REGULATOR AND SHUT-OFF VALVES. SIZE PRESSURE REGULATOR PER BLDG. GAS LOAD. VERIFY GAS PRESSURE UPSTREAM THE REGULATOR (BEFORE THE REGULATOR) AND PROVIDE THE INFORMATION TO THE MANUFACTURER INCLUDING GAS DEMAND TO VERIFY ORIFICE VALVE AND PRESSURE SPRING MODEL NUMBER.
- 4 GAS PIPE ABOVE THE CEILING. PIPE SHALL BE SUPPORTED AND SEISMICALLY BRACED PER DETAIL 10&11/P5.1.
- 5 1-1/2" DCW POINT OF CONNECTION BETWEEN CIVIL AND PLUMBING. FIELD VERIFY EXACT POC.
- 6 PROVIDE DCW SHUT-OFF VALVE AND PRESSURE REGULATOR ASSEMBLY BELOW GROUND IN A YARD BOX.
- 7 1-1/2" DCW UP IN WALL AND BRANCH 3/4" DCW TO SERVE RECESSED HOSE BIBB.
- 8 4" WASTE POINT OF CONNECTION BETWEEN PLUMBING AND CIVIL ENGINEER. FIELD VERIFY EXACT POC.
- 9 3" WASTE POINT OF CONNECTION BETWEEN PLUMBING AND CIVIL ENGINEER. FIELD VERIFY EXACT POC.
- 10 1-1/2" VENT THRU ROOF.
- 11 2" VENT THRU ROOF.
- 12 CONDENSATE DRAIN ABOVE THE CEILING. CD PIPE SHALL BE INSULATED AND SLOPE AT 1/4" PER LINEAR FOOT.
- 13 3/4" CONDENSATE DRAIN DOWN IN WALL TO CONNECT TO THE P-TRAP OF SINK/LAVATORY.
- 14 3/4" CONDENSATE DRAIN FROM FAN COIL UNIT. RISE UP PIPE AS HIGH AS POSSIBEL WITH CONDENSATE PUMP. ROUTE CD PIPE TO ABOVE THE CEILING. FOR CD PUMP INFROMATION, SEE MECHANICAL DRAWINGS.
- 15 PROVIDE MPG SHUT-OFF VALVE SIGN ON THE WALL PER CPC 1210.11.2. REFER TO DETAIL 1/P0.2 AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.

GENERAL NOTES

1. FOR GENERAL NOTES REFER TO P2.0, P2.1 AND P3.1.

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 Exp. 08/01/21
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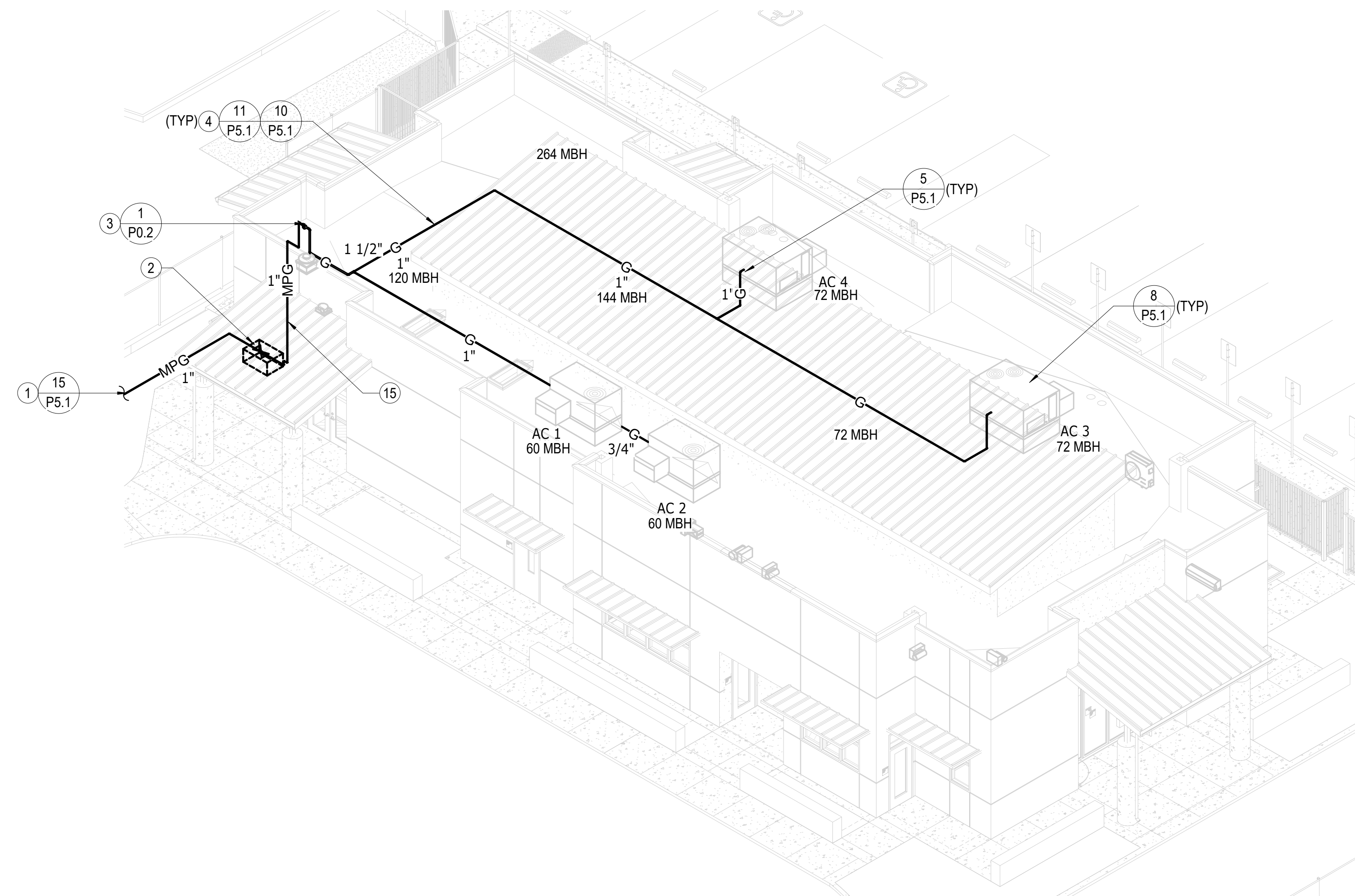
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LICENSED ARCHITECT
 ROBERT D. WEBB
 No. 28036
 Expires 31.12.2024
 STATE OF CALIFORNIA

PROSPECT AVENUE ELEMENTARY
 SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

**PLUMBING
 ISOMETRIC
 DIAGRAMS**

Drawn:
 RA
 Checked:
 MP
 Date:
 Job:
 SSD-SC-03

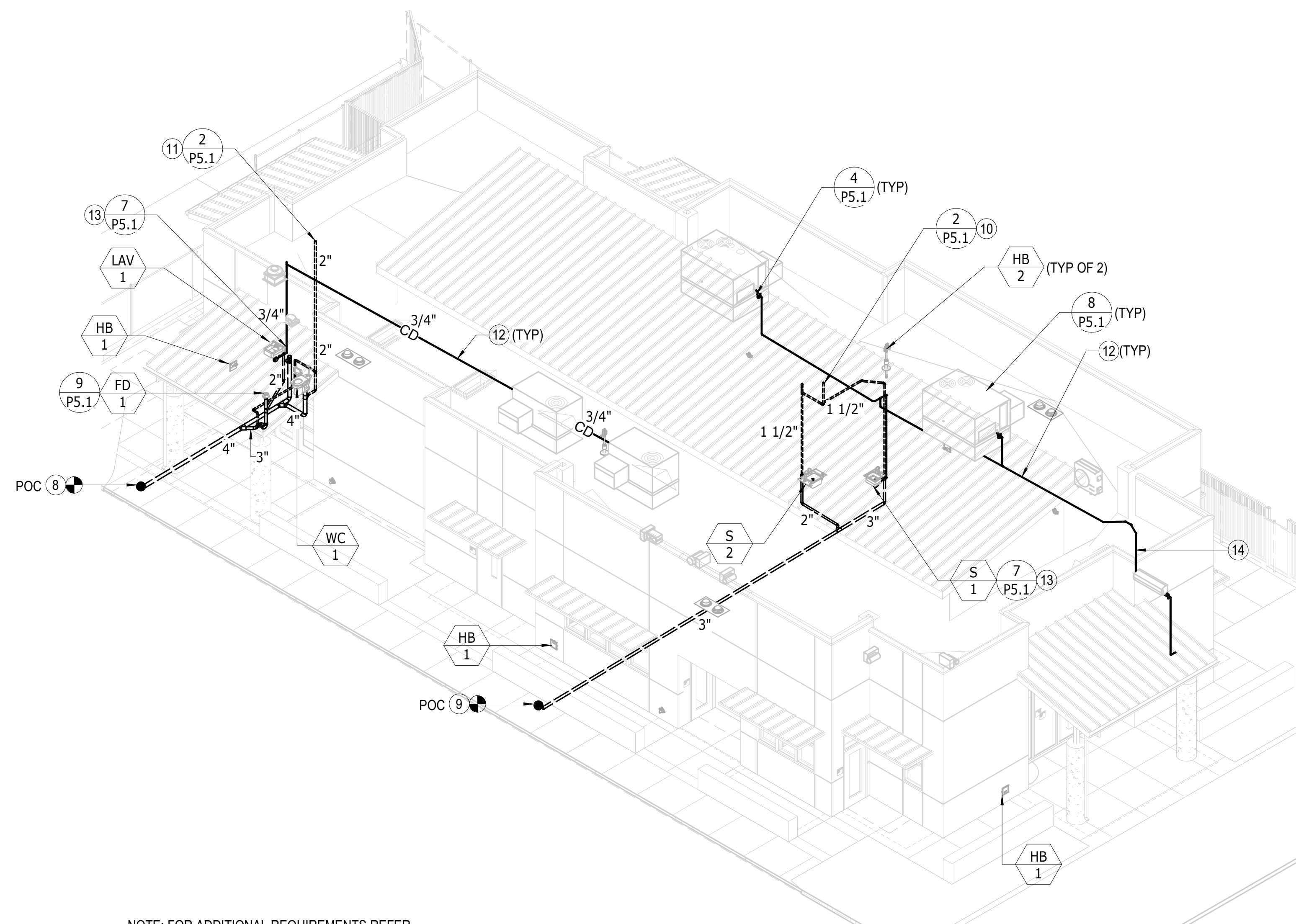


NOTE: FOR ADDITIONAL REQUIREMENTS REFER TO SITE PLAN, FLOOR PLAN AND ROOF PLAN.

GAS INFORMATION

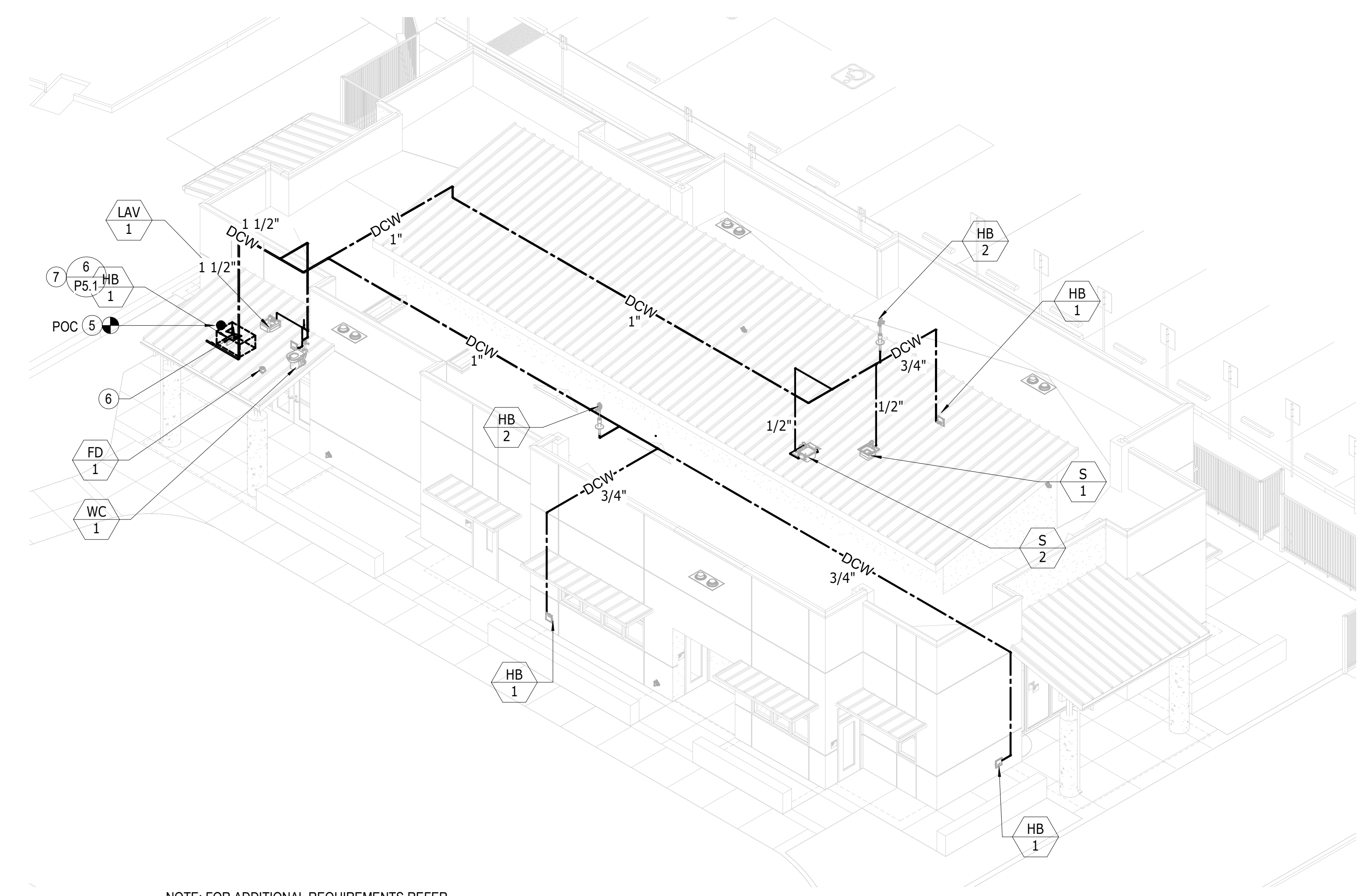
LOW PRESSURE GAS
 TDL: 125'-0"
 GAS LOAD: 264 MBH
 GAS PIPE REQ: 1-1/2"

GAS ISOMETRIC DIAGRAM



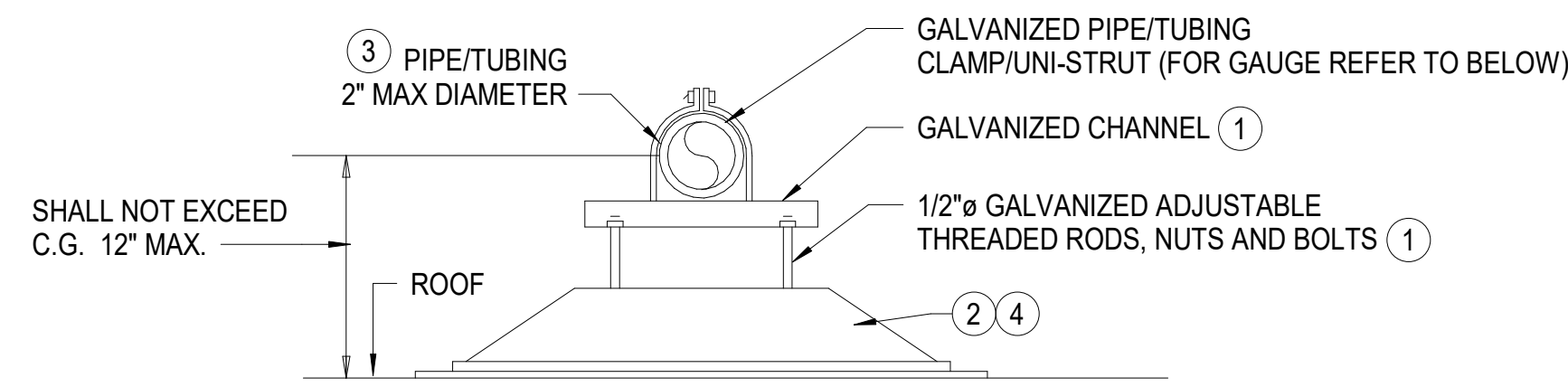
NOTE: FOR ADDITIONAL REQUIREMENTS REFER TO FLOOR PLAN AND ROOF PLAN.

WASTE & VENT ISOMETRIC DIAGRAM



NOTE: FOR ADDITIONAL REQUIREMENTS REFER TO FLOOR PLAN AND ROOF PLAN.

DOMESTIC WATER ISOMETRIC DIAGRAM

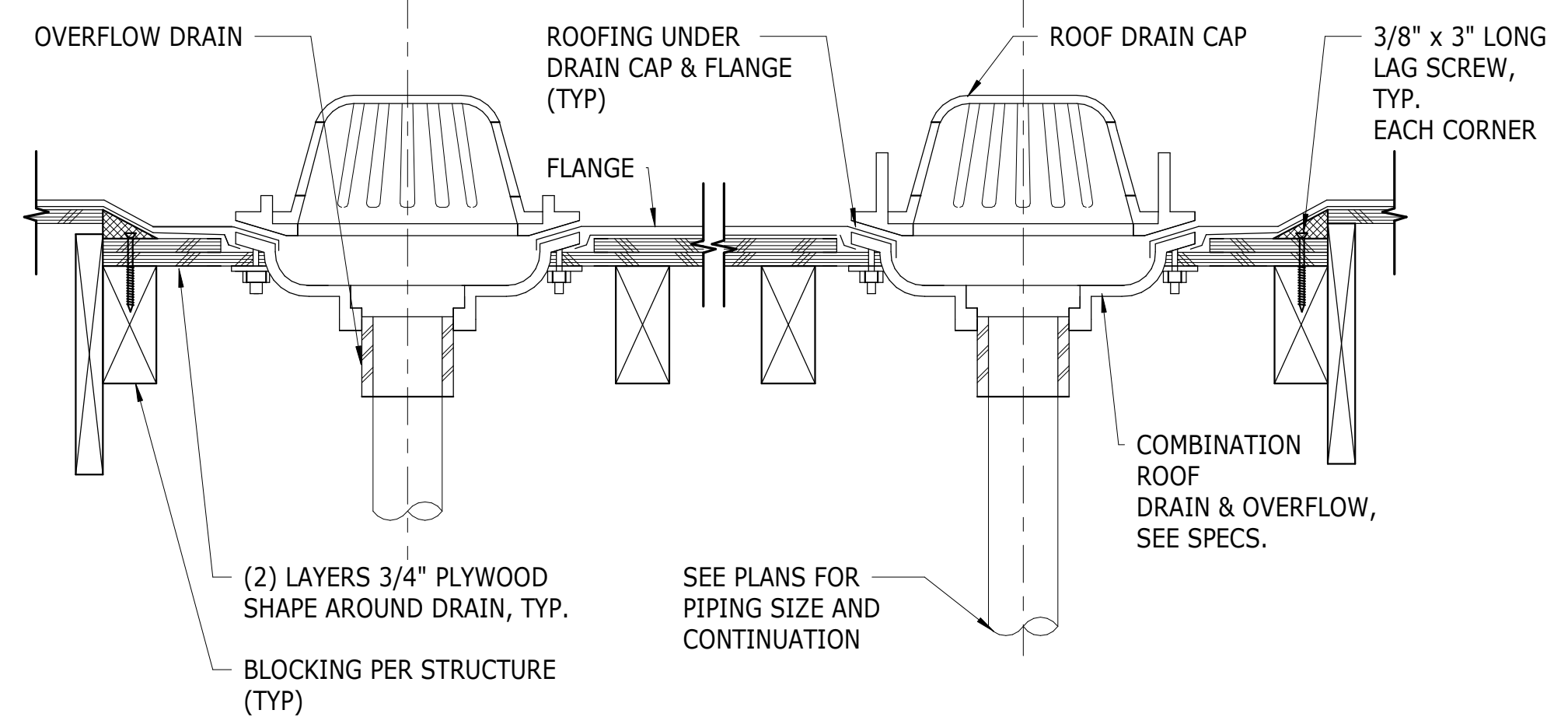


- NOTES:**
- UNI STRUT, 12 GA. (OR EQUAL).
 - SUPPORT ASSEMBLY SHALL BE PHP SYSTEM # PP10-C WITH FLEXCOM DOUBLE SIDED ADHESIVE TAPE. INSTALL PER MANUFACTURER'S GUIDELINES.
 - ADJUST SUPPORTS TO PROVIDE 1/8" PER FOOT SLOPE FOR CONDENSATE DRAIN PIPING.
 - PROVIDE SUPPORTS AT 72" O.C. FOR CONDENSATE DRAIN PIPING, 72" O.C. FOR GAS PIPING.
- PIPE WEIGHTS:**
 GAS: 2" = 3.65 LBS PER LINEAR FOOT;
 1 1/2" = 2.7 LBS PER LINEAR FOOT;
 1 1/4" = 2.3 LBS PER LINEAR FOOT;
 1" = 1.7 LBS PER LINEAR FOOT
 CONDENSATE DRAIN: 3/4" = 0.33 LBS PER LINEAR FOOT

- GAS PIPE SEISMIC BRACING:**
- FOR PIPES 1 INCH AND SMALLER, IF CENTER OF GRAVITY OF PIPE AND SUPPORT IS LESS THAN 12 INCHES FROM ROOF LINE SEISMIC BRACING IS NOT REQUIRED.
 - FOR ANY SIZE PIPE, IF CENTER OF GRAVITY OF PIPE AND SUPPORT IS MORE THAN 12 INCHES FROM ROOF LINE SEISMIC BRACING IS REQUIRED.
- CONDENSATE DRAIN AND WATER PIPE SEISMIC BRACING:**
- FOR ANY SIZE PIPE, IF CENTER OF GRAVITY OF PIPE AND SUPPORT IS MORE THAN 12 INCHES FROM ROOF LINE SEISMIC BRACING IS REQUIRED, OTHERWISE NOT REQUIRED.
- CLAMP GAUGE:**
- UP TO 7/8" PIPE DIAMETER 16 G.A.
 - 1" THRU 1-5/8" PIPE DIAMETER 14 G.A.
 - 1-3/4" THRU 2-1/2" PIPE DIAMETER 12 G.A.

13 ROOF PIPE SUPPORT DETAIL

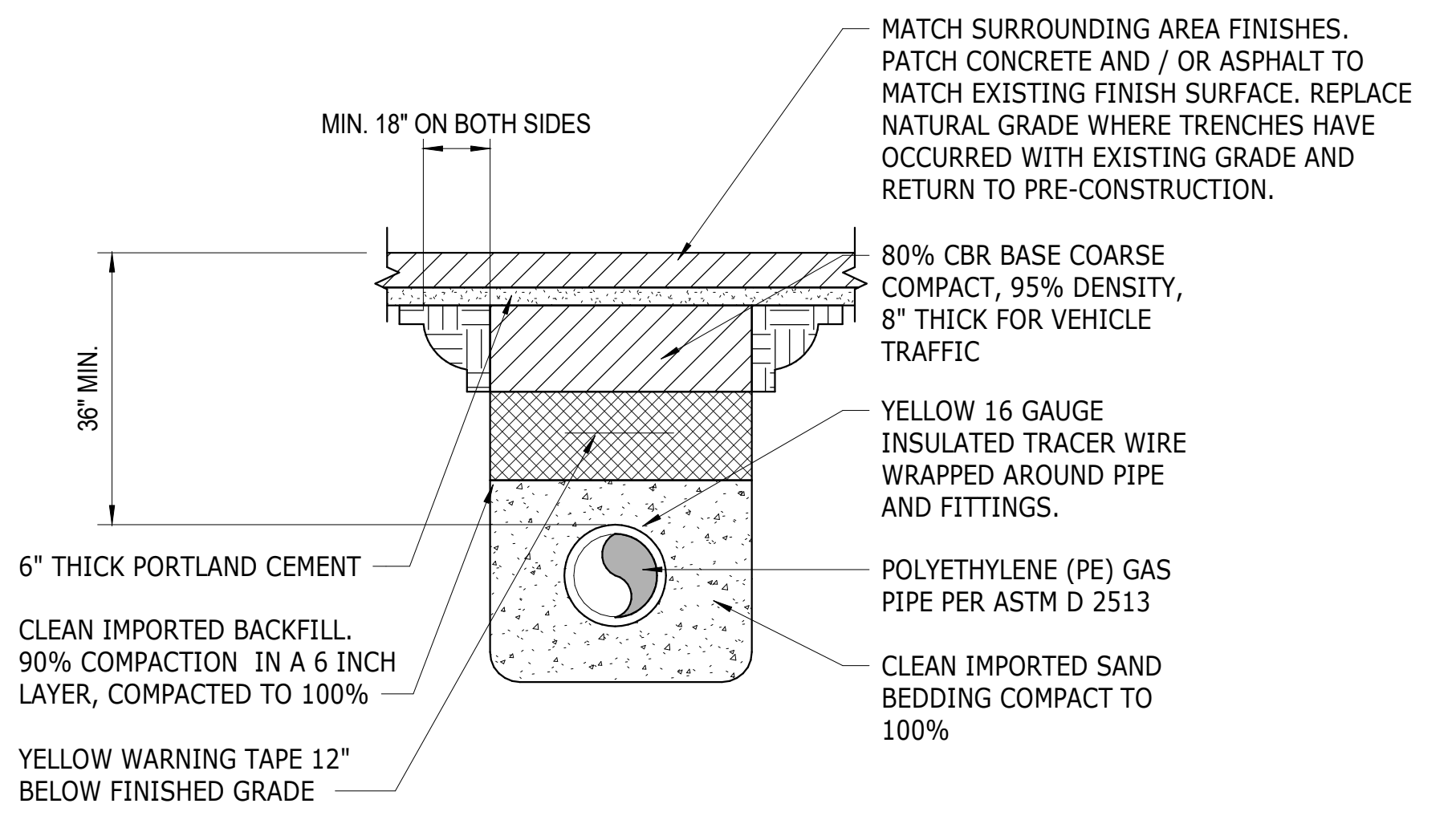
SCALE: NTS



NOTE: FOR ADDITIONAL INFORMATION REFER TO ARCHITECTURAL DETAIL.

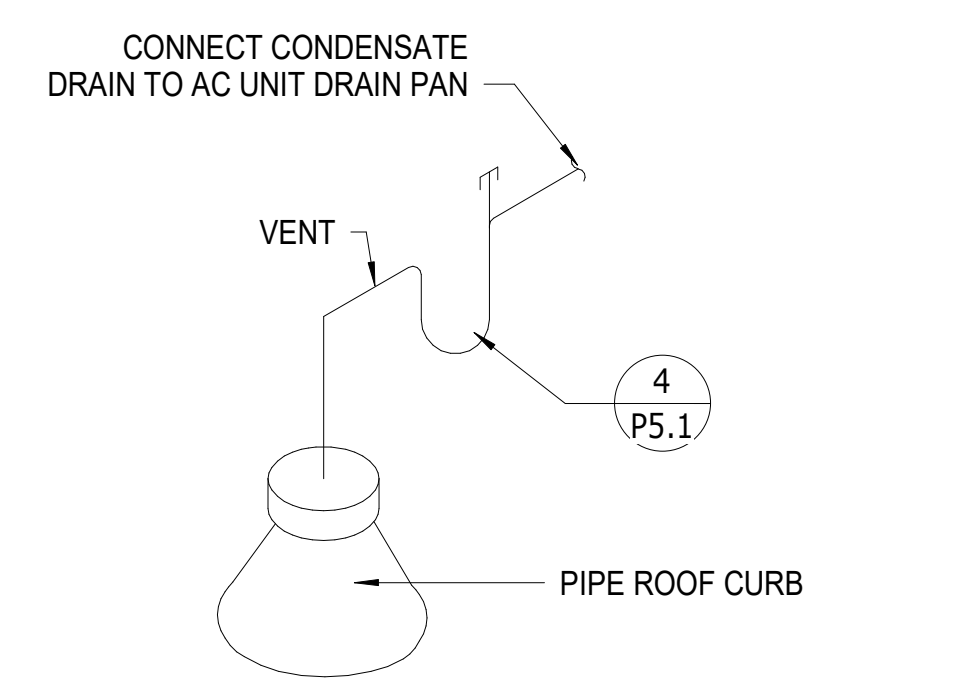
14 ROOF DRAIN AND OVERFLOW DETAIL

SCALE: NTS



15 GAS PIPING TRENCH

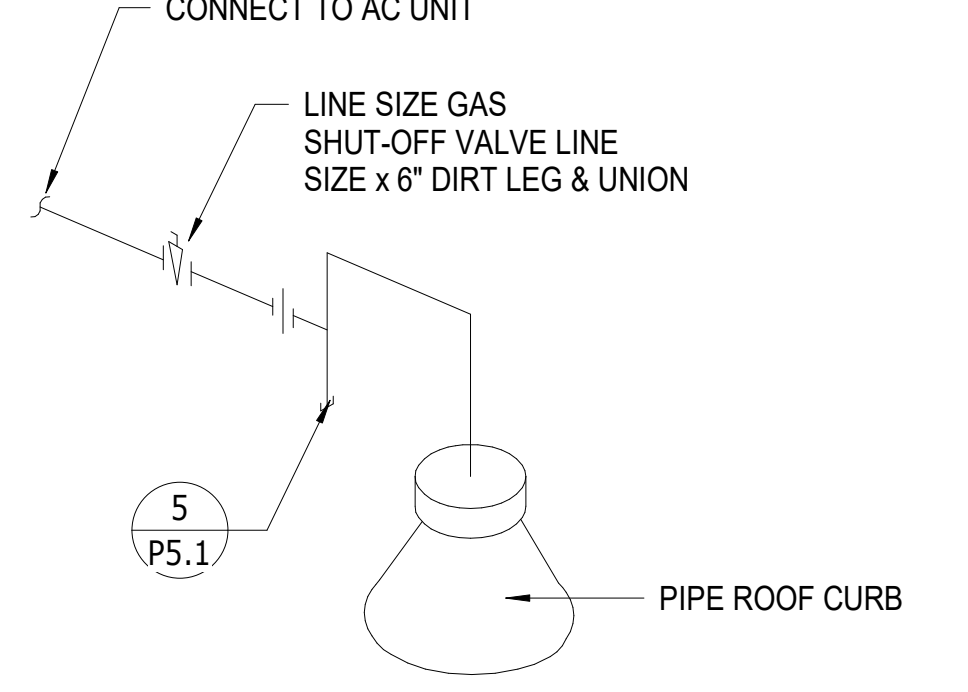
SCALE: NTS



NOTE: SEE ARCHITECTURAL DETAIL 7/A40.1

17 AC UNIT CD PIPING DETAIL

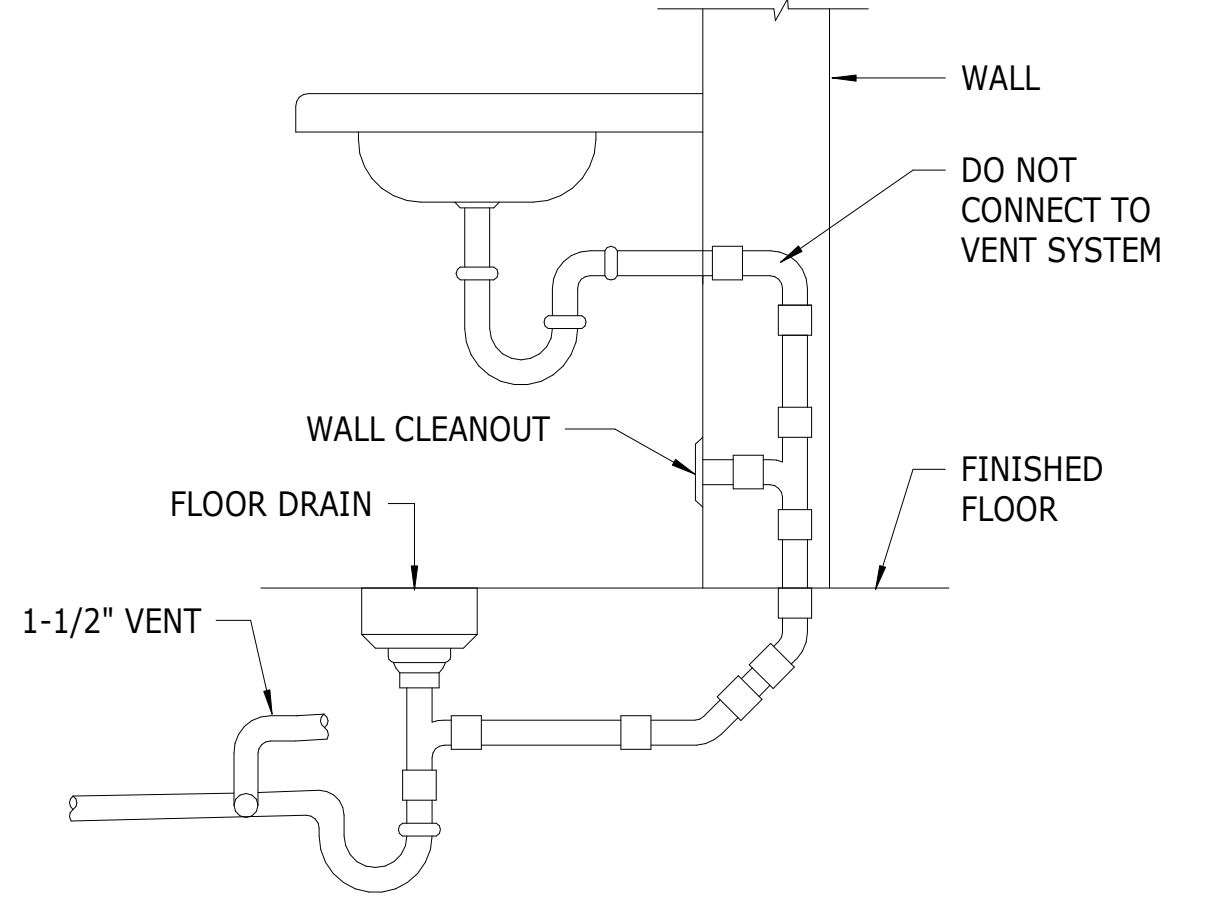
SCALE: NTS



NOTE: SEE ARCHITECTURAL DETAIL 7/A40.1

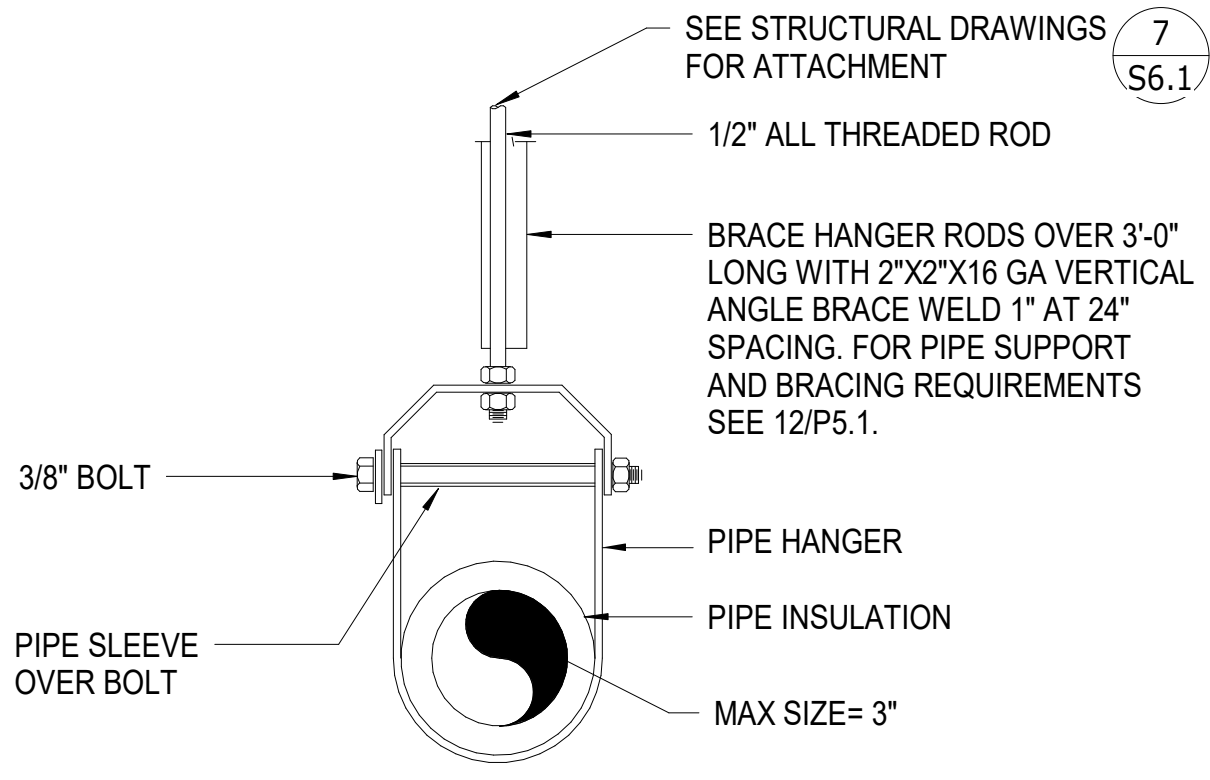
16 AC UNIT GAS PIPING DETAIL

SCALE: NTS



9 INDIRECT WASTE CONNECTION AT FLOOR SINK TAILPIECE

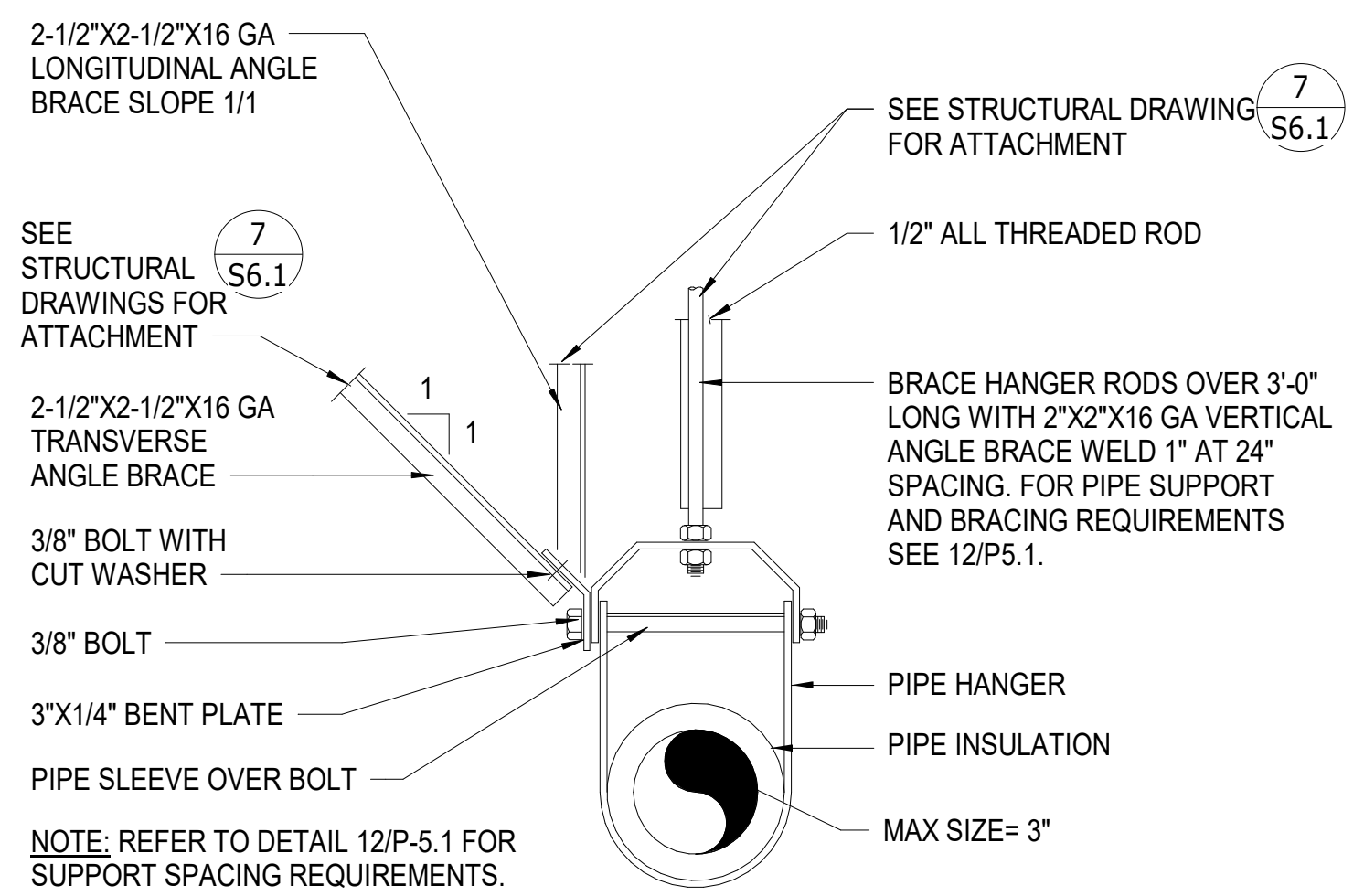
SCALE: NTS



NOTE: REFER TO DETAIL 12/P-5.1 FOR SUPPORT SPACING REQUIREMENTS.

10 TYPICAL PIPE HANGER SUPPORT

SCALE: NTS



11 TYPICAL PIPE SEISMIC BRACING

SCALE: NTS

MAX. GAS PIPE SUPPORT SPACING PER 2016 CPC TABLE 1310.5.4(1)	
PIPE SIZE (INCH)	HANGER SPACING (FEET)
1/4	5
3/8	6
1/2	6
3/4	7
1	8
1-1/4	9
1-1/2	10

VERTICAL RISERS, ALL SIZES, EVERY FLOOR BUT NO TO EXCEED: 15'-0"

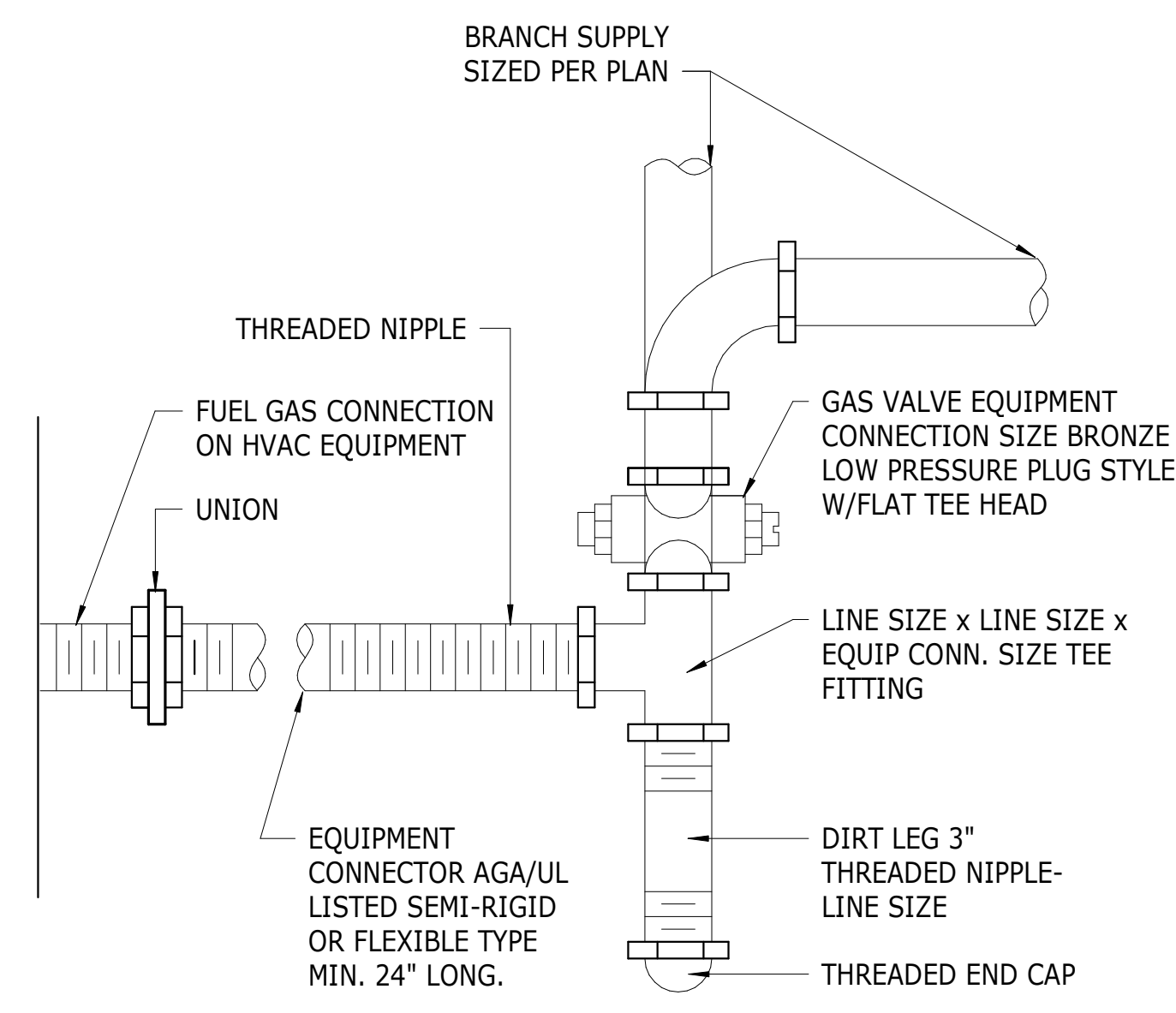
GENERAL PIPING SUPPORT PER 2016 CPC TABLE 1210.2.4.1	
STEEL PIPE NOMINAL SIZE OF PIPE (INCH.)	SPACING OF SUPPORTS (FEET)
1/2	6
3/4 OR 1	8
1-1/4 OR LARGER (HORIZONTAL)	10
1-1/4 OR LARGER (VERTICAL)	EVERY FLOOR LEVEL

REQUIRED SEISMIC BRACING SPACING FOR ALL OTHER PIPE IN ACCORDANCE WITH SMACNA SEISMIC RESTRAINT MANUAL: TRANSVERSE = 40' LONGITUDINAL = 80'

REQUIRED SEISMIC BRACING SPACING FOR ALL OTHER PIPE IN ACCORDANCE WITH SMACNA SEISMIC RESTRAINT MANUAL: TRANSVERSE = 40' LONGITUDINAL = 80'

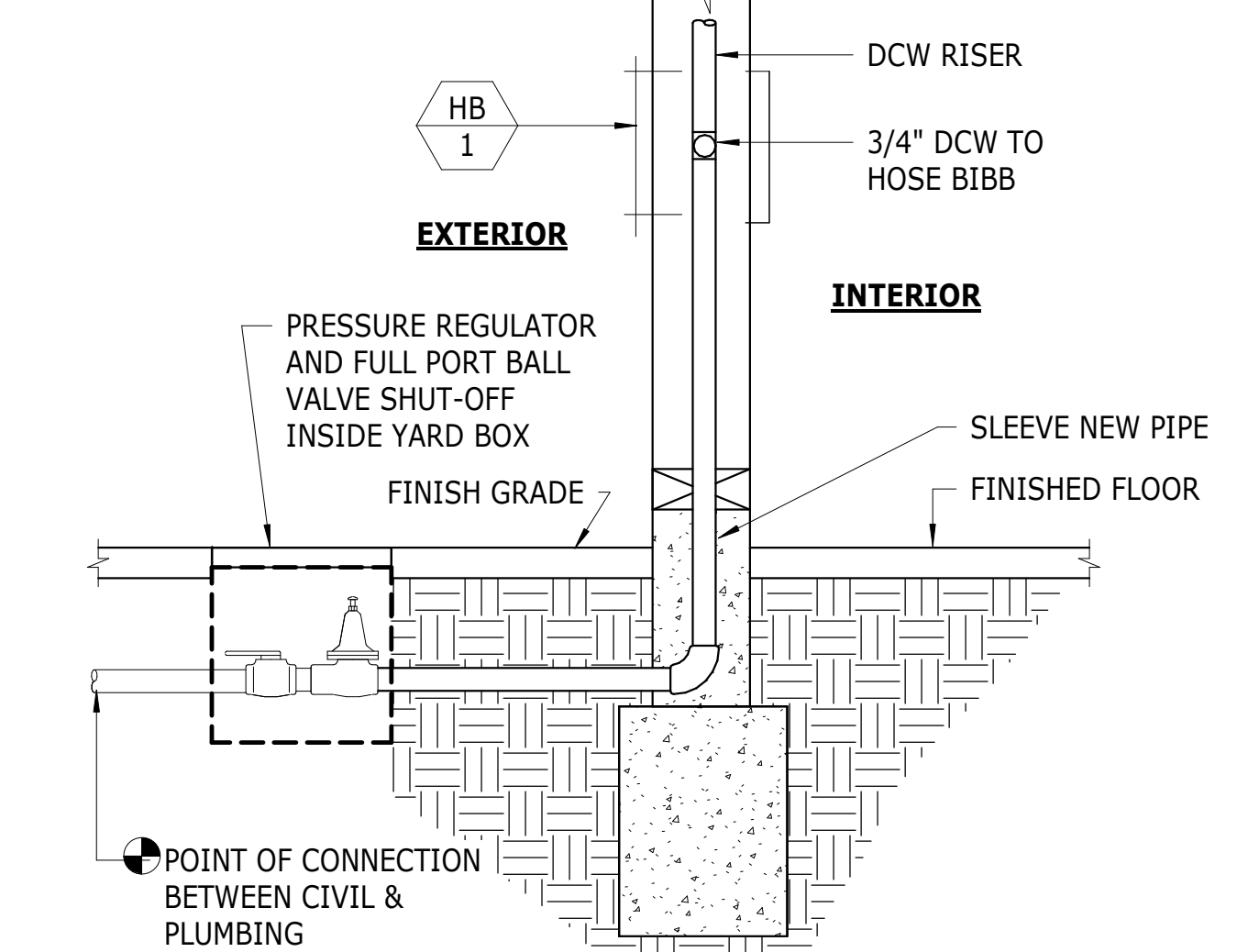
12 PIPE SUPPORT SPACING PER 2016 CPC

SCALE: NTS



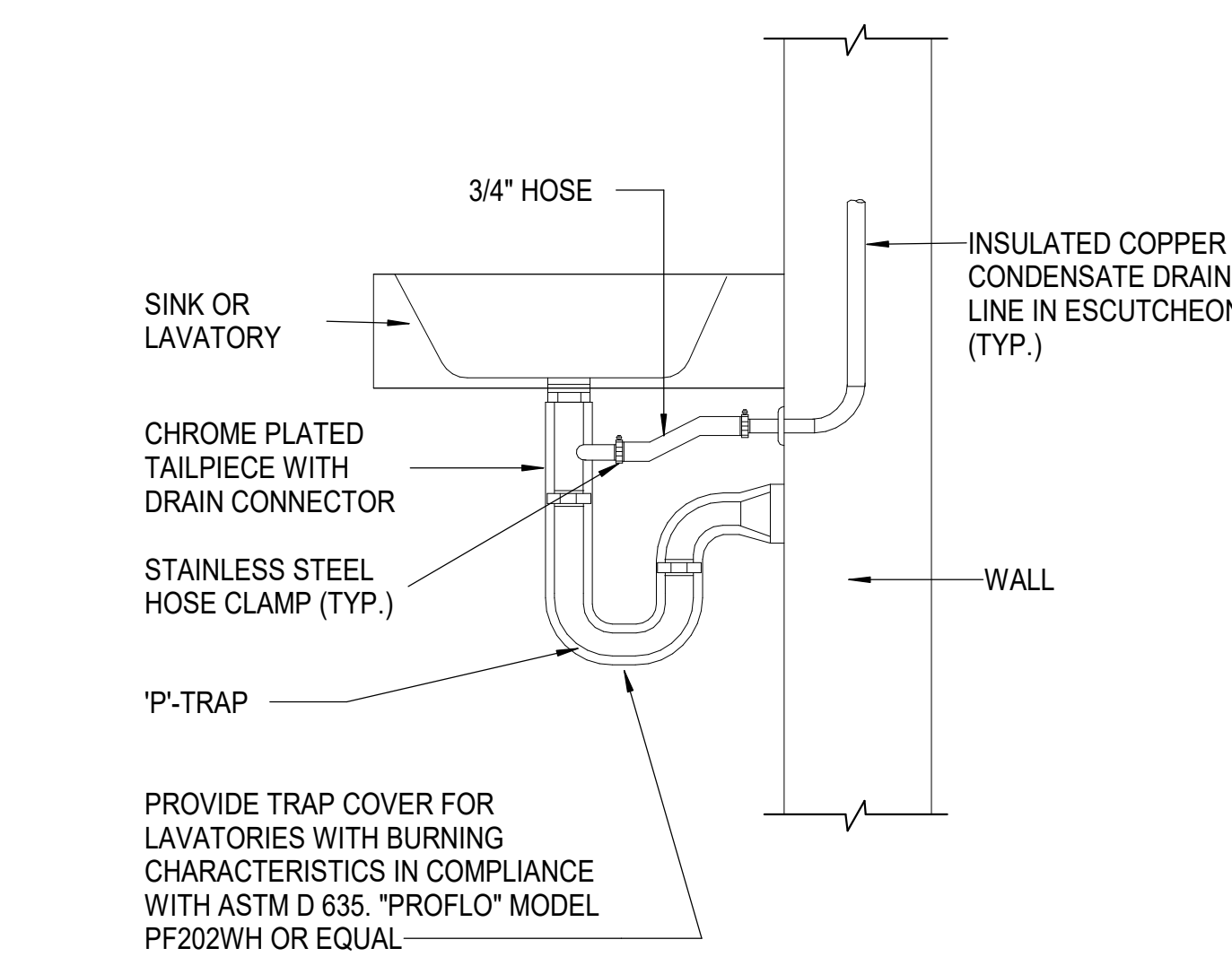
5 NAT. GAS CONNECT. AT EQUIP.

SCALE: NTS



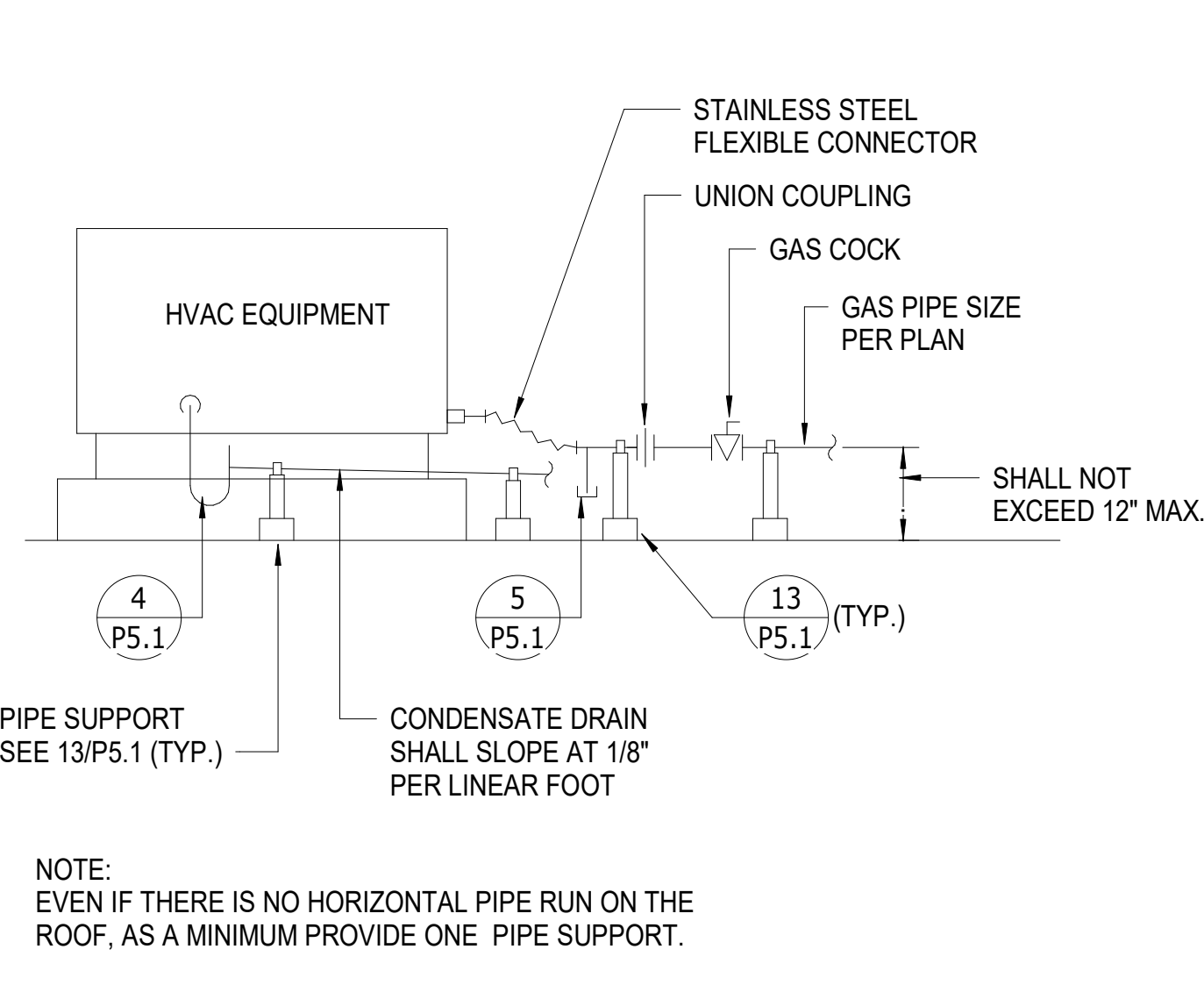
6 WATER SERVICE ENTRANCE

SCALE: NTS



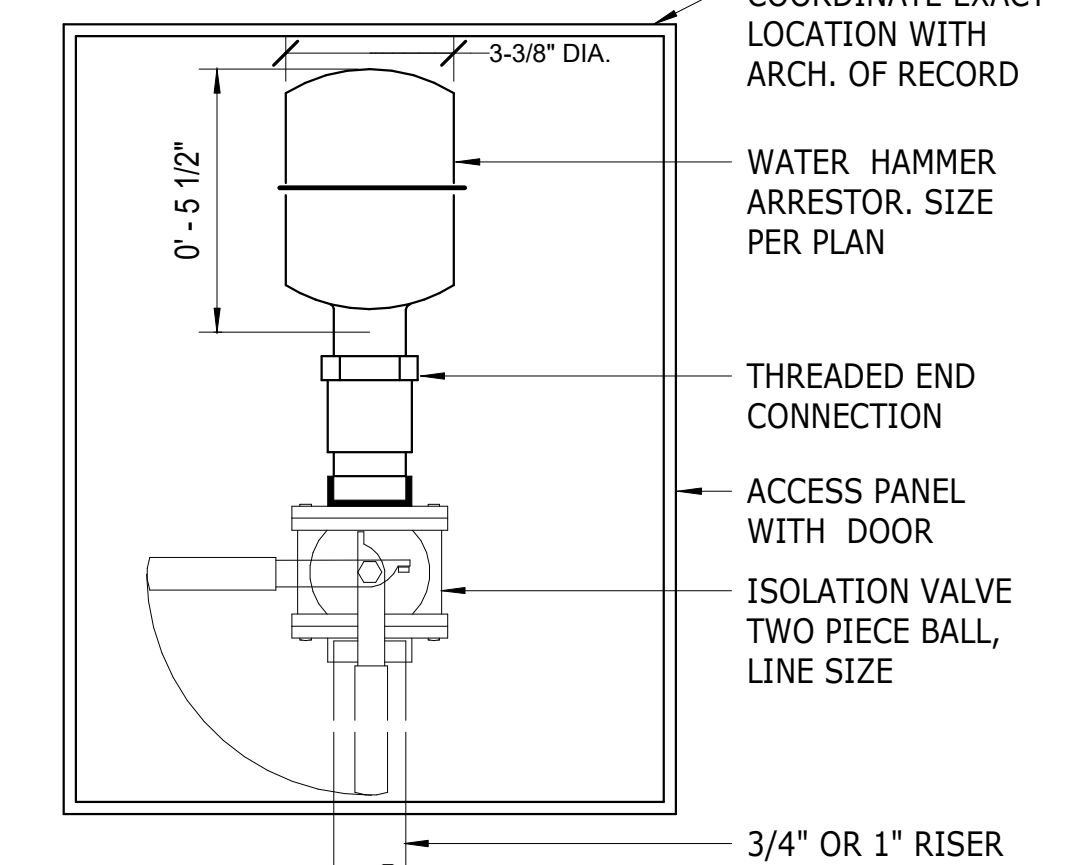
7 CONDENSATE DRAIN AT LAV. TAIPIECE

SCALE: NTS



8 HVAC UNIT PIPING DETAIL

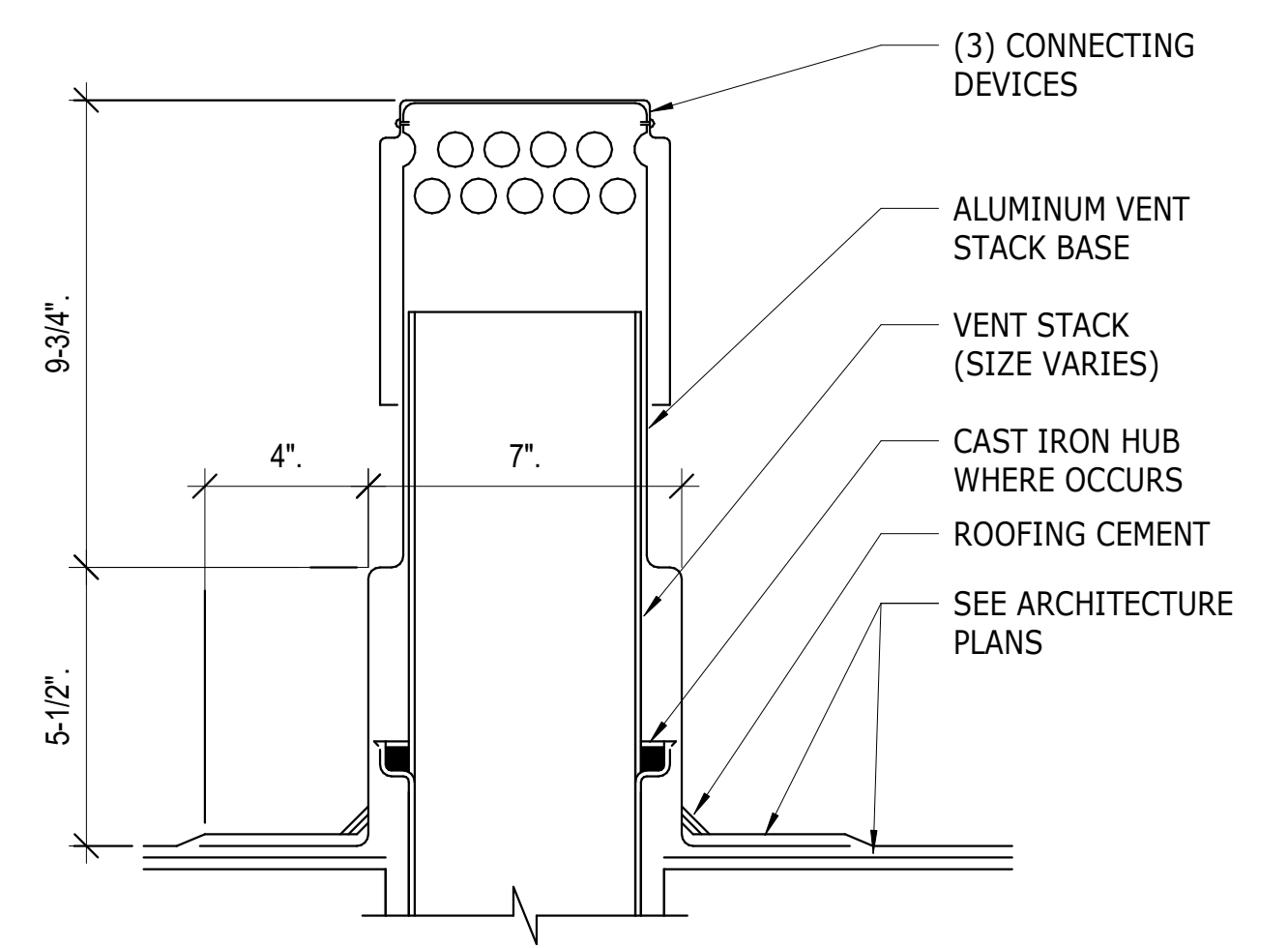
SCALE: NTS



NOTE: 1. INTALLATION SHALL COMPLY W/P.D.I. STANDARD WH201. UNITS NOT SIZED ON PLAN SHALL BE SIZED ACCORDINGLY. 2. INSTALL WATER HAMMER ARRESTOR AT THE END OF THE BRACH BETWEEN THE LAST TWO FIXTURES. 3. IF BRANCH LINE EXCEEDS 20 FEET INSTALL ASECOND WATER HAMMER ARRESTOR IN BETWEEN THE FIRST AND SECOND TO THE LAS FIXTURE.

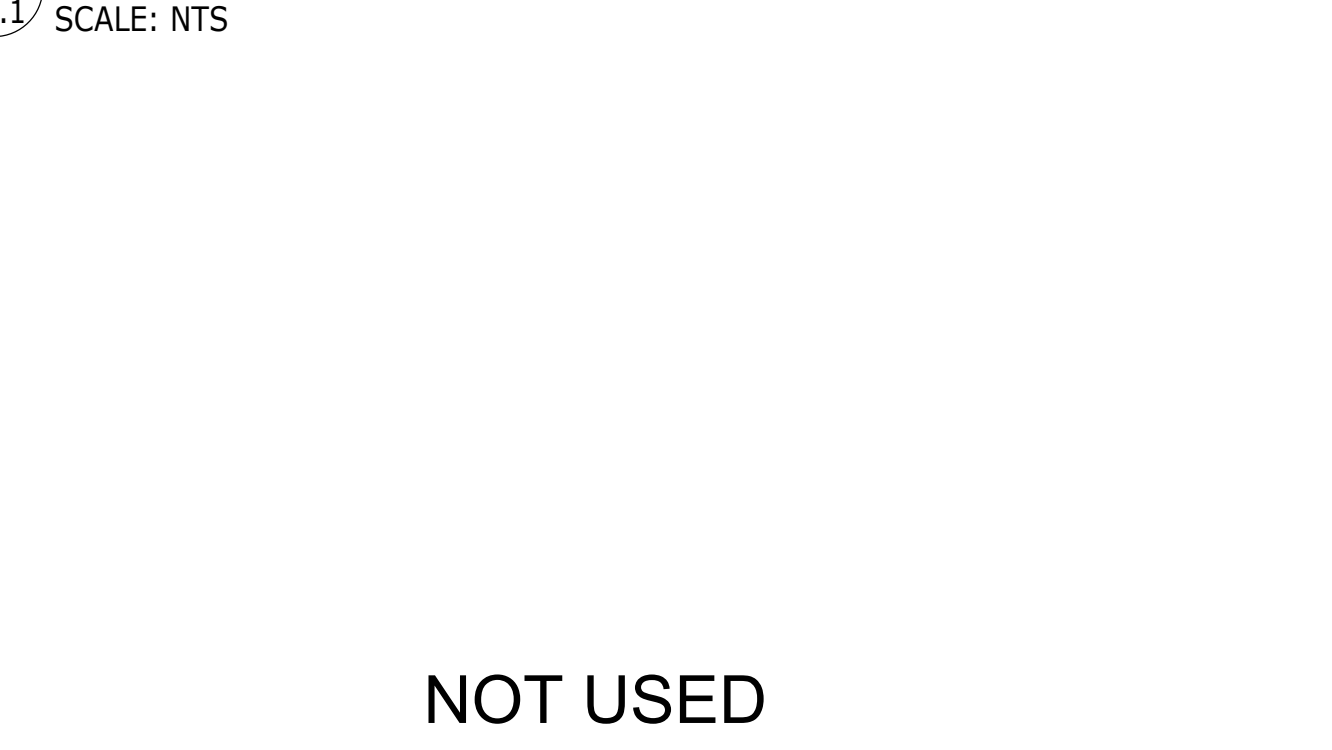
1 WATER HAMMER ARRESTOR

SCALE: NTS



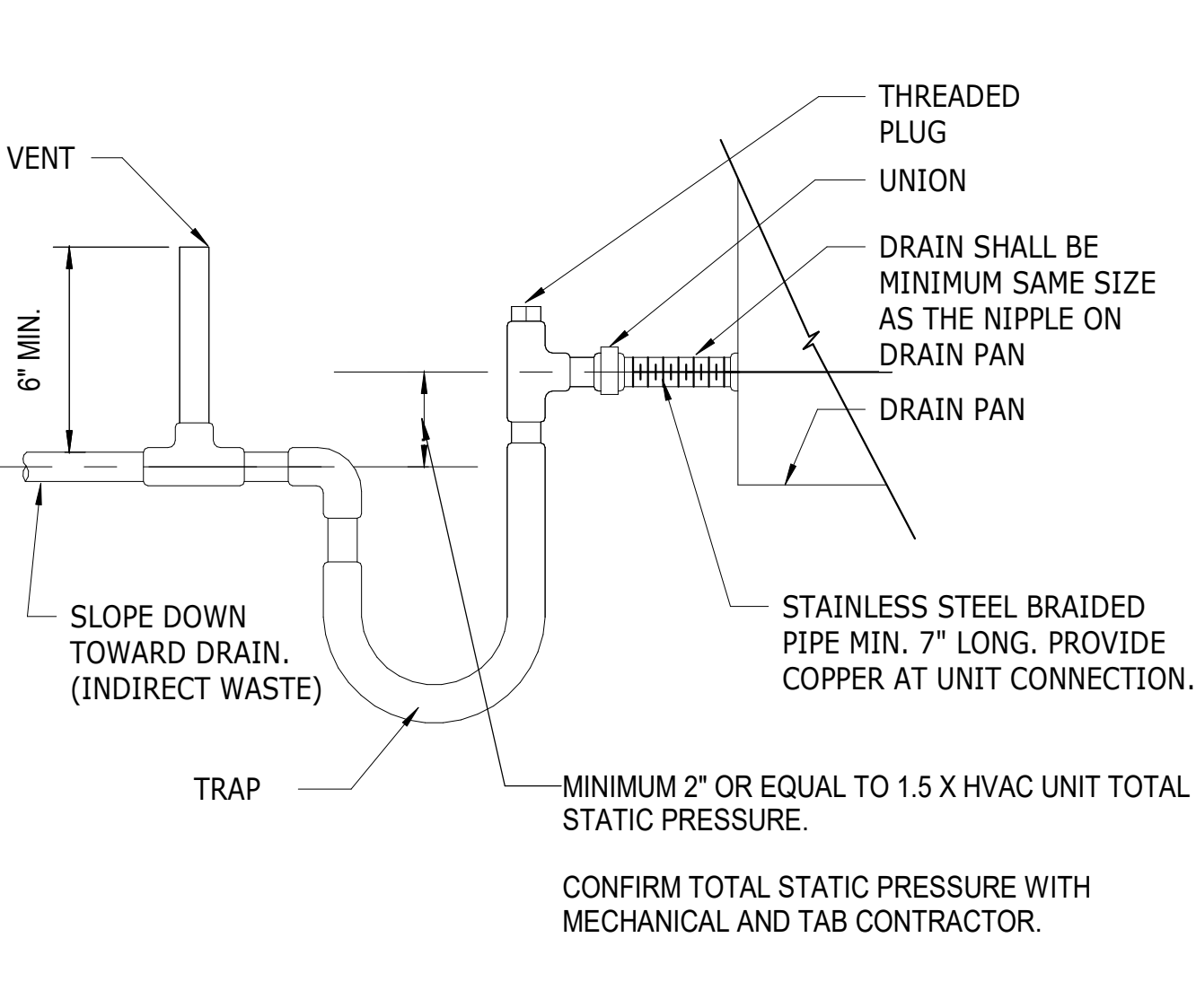
3 HIGH SECURITY VENT THOUGH ROOF

SCALE: NTS



3 NOT USED

SCALE: NTS



4 CONDENSATE DRAIN TRAP

SCALE: NTS

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-118742 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 02.05.20

Revision	Date

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 Tel: (619) 642-0800
 Fax: (619) 642-0802
 Consultant

REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 MECHANICAL
 No. 4688
 Exp. 06/30/21
 Engineer

studiowc
 ARCHITECTURE + ENGINEERING
 616 Esplanade Blvd., Ste. 201, Esplanade, California 92024
 Telephone: (760)743-5800 Fax: (760)452-7541

LICENSED ARCHITECT
 STATE OF CALIFORNIA
 No. 28036
 Exp. 11/30/24
 Architect

PROSPECT AVENUE ELEMENTARY SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

PLUMBING DETAILS

Drawn: RA
 Checked: MP
 Date:
 Job: SSD-SC-03

P5.1

ABBREVIATIONS

Table listing abbreviations for electrical symbols such as AMPERE (AMPS), ALTERNATING CURRENT, AMP-FRAME (RATING), AMP INTERRUPTING CURRENT, AMMETER, AMP SWITCH (FUSED SWITCH RATING), AMP-TRIP (RATING), AMERICAN WIRE GAUGE, BARE COPPER, BUILDING, CONDUIT, CIRCUIT BREAKER, CONDUIT ONLY, CURRENT TRANSFORMER, COPPER, CONTRACTOR FURNISHED OWNER INSTALLED, CONTRACTOR FURNISHED CONTRACTOR INSTALLED, DOUBLE POLE DOUBLE THROW, DOUBLE POLE SINGLE THROW, DRAWING, EXISTING, FULL LOAD AMPS, FULL VOLTAGE REVERSING, FULL VOLTAGE NON-REVERSING, GROUND FAULT INTERRUPTER, GROUND, HIGH INTENSITY DISCHARGE, HAND-OFF-AUTOMATIC, HORSEPOWER, HIGH PRESSURE SODIUM, HERTZ, KILOWATT, LONG CONTINUOUS LOAD, LOCKED ROTOR AMPS, LIGHTING, MOTOR CONTROL CENTER, THOUSAND CIRCULAR MILS, MECHANICAL, NORMALLY CLOSED, NON-FUSED, NORMALLY OPEN/NUMBER, OWNER FURNISHED CONTRACTOR INSTALLED, OWNER FURNISHED OWNER INSTALLED, PHASE, POINT OF CONNECTION, PVC COATED RIGID STEEL (CONDUIT), POTENTIAL TRANSFORMER, POLYVINYL CHLORIDE DUCT, SWITCHBOARD, TYPICAL, UNDERGROUND, UNLESS OTHERWISE NOTED, VOLT, VOLT-AMPERES, VOLTMETER, VERIFY LOCATION, WIRE/NATTS, WEATHERPROOF (NEMA TYPE 3R), WATER TIGHT, EXPLOSION PROOF (RATED FOR AREA HAZARD)

ELECTRICAL SYMBOL LEGEND

Table listing electrical symbols for lighting and distribution equipment. Includes symbols for lighting fixture designation, lighting fixture (ceiling or wall mounted), fluorescent light fixture, lighting fixture on emergency circuit, exit sign, emergency lighting unit, fluorescent strip light, single pole switch, three-way switch, four-way switch, switch with pilot light, double pole switch, weather proof switch, key operated switch, surface mounted track lighting fixtures, exterior site lighting, exterior decorative site lighting, landscape lighting, sports lighting, wall mounted occupancy sensor, ceiling mounted occupancy sensor, ceiling mounted occupancy sensor lighting control, low voltage light switch, digital lighting control, primary daylight zone, secondary daylight zone.

DISTRIBUTION EQUIPMENT

Table listing symbols for distribution equipment including drain out type equipment, vacuum circuit breaker, air interrupter, fuse, power transformer, power circuit breaker, automatic transfer switch, ammeter, voltmeter, circuit breaker, fused switch, and utility company meter.

POWER CONTINUED

Table listing electrical symbols for power equipment such as duplex receptacle, receptacle mounted horizontally, fourplex receptacle, receptacle mounted above counter, provide (2) duplex receptacle, provide wall mounted duplex receptacle, single receptacle, duplex ground fault interrupting receptacle, duplex receptacle in weatherproof enclosure, duplex receptacle in weatherproof locking enclosure, duplex receptacle (orange) isolated ground, fourplex receptacle (orange) isolated ground, duplex computer receptacle, duplex computer receptacle (grey), duplex computer receptacle (blue) isolated ground, single receptacle 20 amp, single receptacle 50 amp, single receptacle 50 amp, single receptacle 30 amp, single receptacle 30 amp, single receptacle 30 amp, single receptacle 20 amp, special purposes kitchen equipment receptacle, duplex receptacle wall mounted adjacent to flat panel outlet, multi-outlet assembly, junction box, hand dryer connection, fused disconnect switch, manual motor starter, motor connection, mechanical equipment tag, conduit and wire concealed in ceiling/wall, flexible conduit connection, branch circuit homerun to panel, 3/4" conduit stubbed from device, panelboard, step-down transformer, distribution switchboard, surface mounted raceway single section series, surface mounted raceway two section series, surface mounted raceway three section series.

GENERAL PROJECT NOTES:

- 1. UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
2. UNLESS WHERE OTHERWISE NOTED, ALL DIMENSIONS ARE TO BE CENTERLINE OF THE DEVICE.
3. "GENERAL NOTES" SHOWN ON AN INDIVIDUAL DRAWING APPLY TO ALL WORK SHOWN ON THAT SHEET. "KEY NOTES" ONLY APPLY TO SPECIFIC ITEMS WHERE ANNOTATED AT SPECIFIC LOCATIONS. SOME KEY NOTES MAY NOT APPLY TO ANY SPECIFIC ITEMS.
4. FOR TWO STORY BUILDING CONSTRUCTION, NO CONDUITS SHALL BE ROUTED HORIZONTALLY WITHIN THE FLOOR SLAB OF THE SECOND FLOOR.
5. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

GENERAL DEMOLITION NOTES:

- 1. ALL ELECTRICAL EQUIPMENT, EXPOSED RACEWAY AND CONDUIT, OUTLET BOXES AND RINGS, AND DEVICES ARE TO BE REMOVED, EXCEPT WHERE SHOWN TO REMAIN. EXISTING WIRING, WHETHER EXPOSED, IN CONDUIT OR RACEWAY IS TO BE REMOVED TO THE GREATEST EXTENT POSSIBLE.
2. THE ELECTRICAL CONTRACTOR IS TO DIRECT THE REMOVAL OF THE ABOVE LISTED WORK.

MEP COMPONENT ANCHORAGE NOTE:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS, WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.10 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 6 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24 AND 1616A.1.25 AND 1616A.1.26.

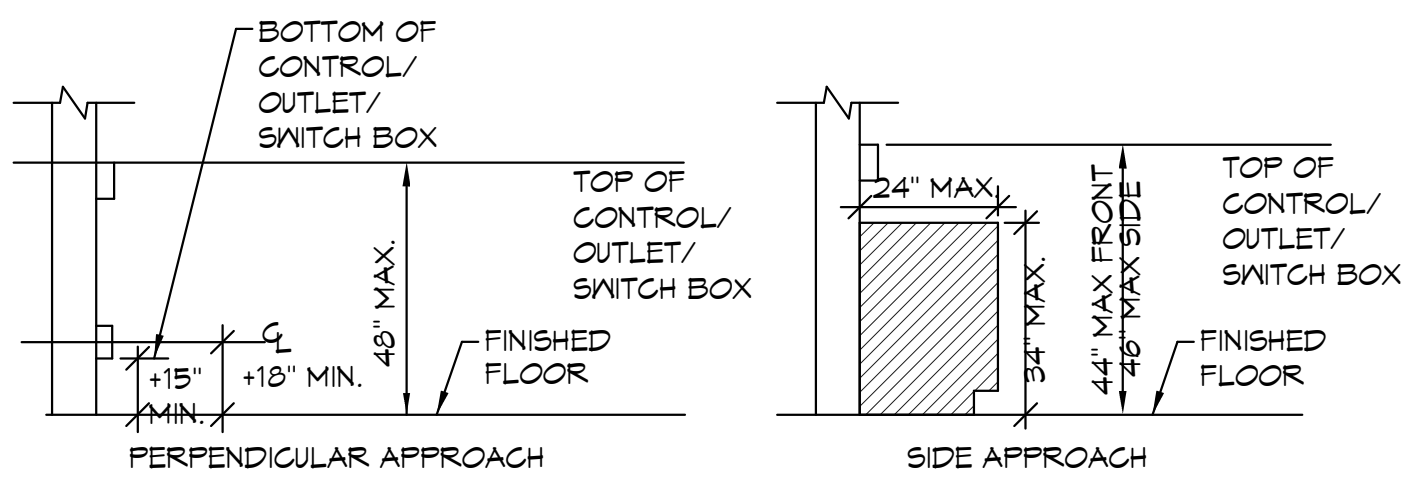
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE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

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

- MP MD PP PE E - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP MD PP PE E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM) #
MP MD PP PE E - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.

FIRE RATED ASSEMBLIES NOTE:

- 1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DESCRIPTION AND DETAIL OF ALL FIRE RATED ASSEMBLIES.



NOTE: MAINTAIN MINIMUM 30"x48" CLEAR FLOOR SPACE AT EACH APPROACH.

MOUNTING HEIGHT OVER OBSTRUCTION 1 E1.0 NO SCALE

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-118742 INC. REVIEWED FOR SS FS ACS DATE: 02.05.20

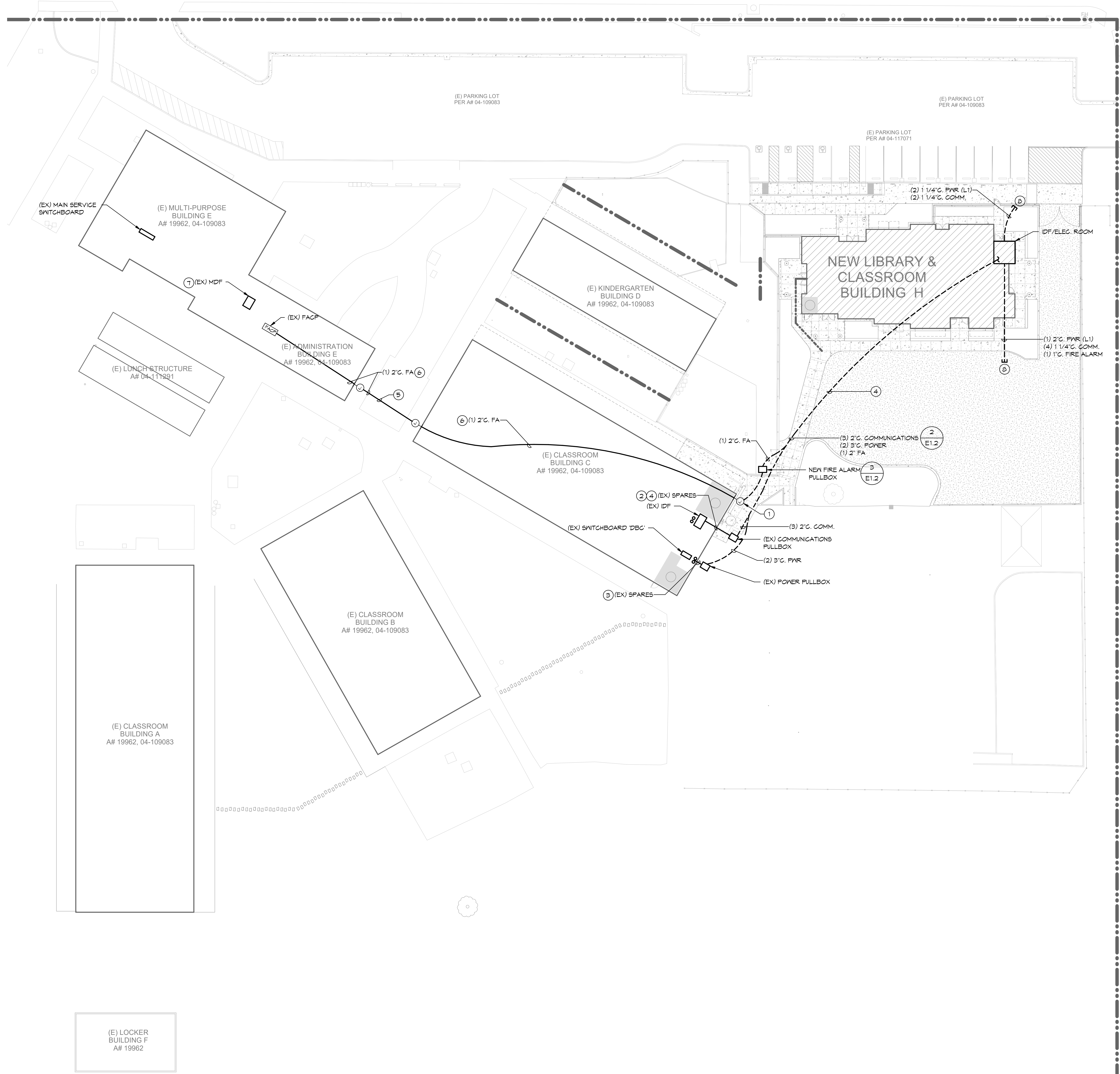
Table with columns for Date, Revision, and Consultant/Engineer.

studionic ARCHITECTURE + ENGINEERING 515 Esplanade Blvd., Ste. 201, Esplanade, California 92024 Telephone: (760)753-5800 Fax: (760)452-7541

Professional Engineer Seal for Robert D. Webb, No. C-28036, State of California, expires 12/31/2019.

PROSPECT AVENUE ELEMENTARY SCHOOL LIBRARY RESOURCE CENTER (LRC) SANTEE SCHOOL DISTRICT

ELECTRICAL SYMBOLS AND NOTES E1.0 Drawn: RI Checked: RDW Date: AUGUST 27, 2019 Job: SSD-PA-03 JOHNSON CONSULTING ENGINEERS, INC. Power | Lighting | Multimedia Communications | Data Networking 12875 Brookprinter Place, Suite 300 Poway, CA 92064 P 858.679.4030 | F 858.513.0559 www.jce-inc.com 1/21/2020 12:31:26 PM



GENERAL NOTES:

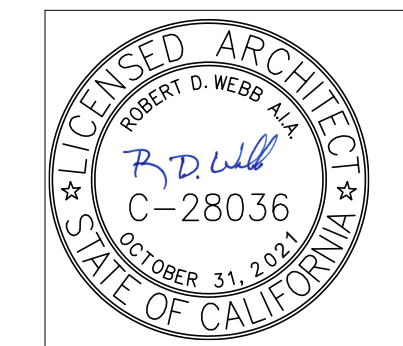
- SEE E1.1 FOR CONDUCTOR SIZES AND QUANTITIES.
- REFERENCE SHEETS E1.2 AND E0.1 FOR TYPICAL DETAILS.
- VERIFY ALL CONDUIT ROUTING WITH DISTRICT PRIOR TO INSTALLATION.
- LOCATIONS/ROUTING OF EXISTING/NEW EQUIPMENT IS APPROXIMATE ONLY. CONTRACTOR TO VERIFY ALL LOCATIONS AND UNDERGROUND UTILITIES PRIOR TO TRENCHING.

KEY NOTES:

- PROVIDE WALL MOUNTED J-BOX THEN ROUTE CONDUITS DOWN EXTERIOR WALL TO UNDERGROUND.
- EXISTING (2) 2" C. SPARE (UNDERGROUND) FROM EXISTING ELECTRICAL/IDF ROOM TO EXISTING UNDERGROUND COMMUNICATION PULLBOX.
- EXISTING (2) 3" C. SPARE (UNDERGROUND) FROM EXISTING ELECTRICAL/IDF ROOM TO EXISTING UNDERGROUND POWER PULLBOX.
- ROUTE NEW FIBER OPTIC (DATA) AND OTHER LOW VOLTAGE FEED CABLES FROM NEW IDF CLOSET IN NEW LIBRARY/CLASSROOM BLDGS. TO THE EXISTING IDF CLOSET IN BLDGS. 'C'. COORDINATE SWITCH CONNECTIONS WITH THE DISTRICT IT DEPARTMENT. REFER TO RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- ROUTE CONDUITS ACROSS UNDERSIDE OF CANOPY.
- ROUTE CONDUITS ABOVE CEILING THROUGH BUILDING (TYP.)
- MAKE FIBER OPTIC CONNECTION TO NEW IDF CLOSET IN THE LIBRARY/CLASSROOM BUILDING THROUGH THE EXISTING IDF CLOSET IN BUILDING 'C'.
- STUB AND GAP BELOW GRADE FOR FUTURE.

Date	
Revision	
	Consultant
	Engineer

studiowc
 ARCHITECTURE + ENGINEERING
 615 Esplanade Blvd, Ste. 201, Escondido, California 92024
 Telephone: (760)733-5800 Fax: (760)452-7541



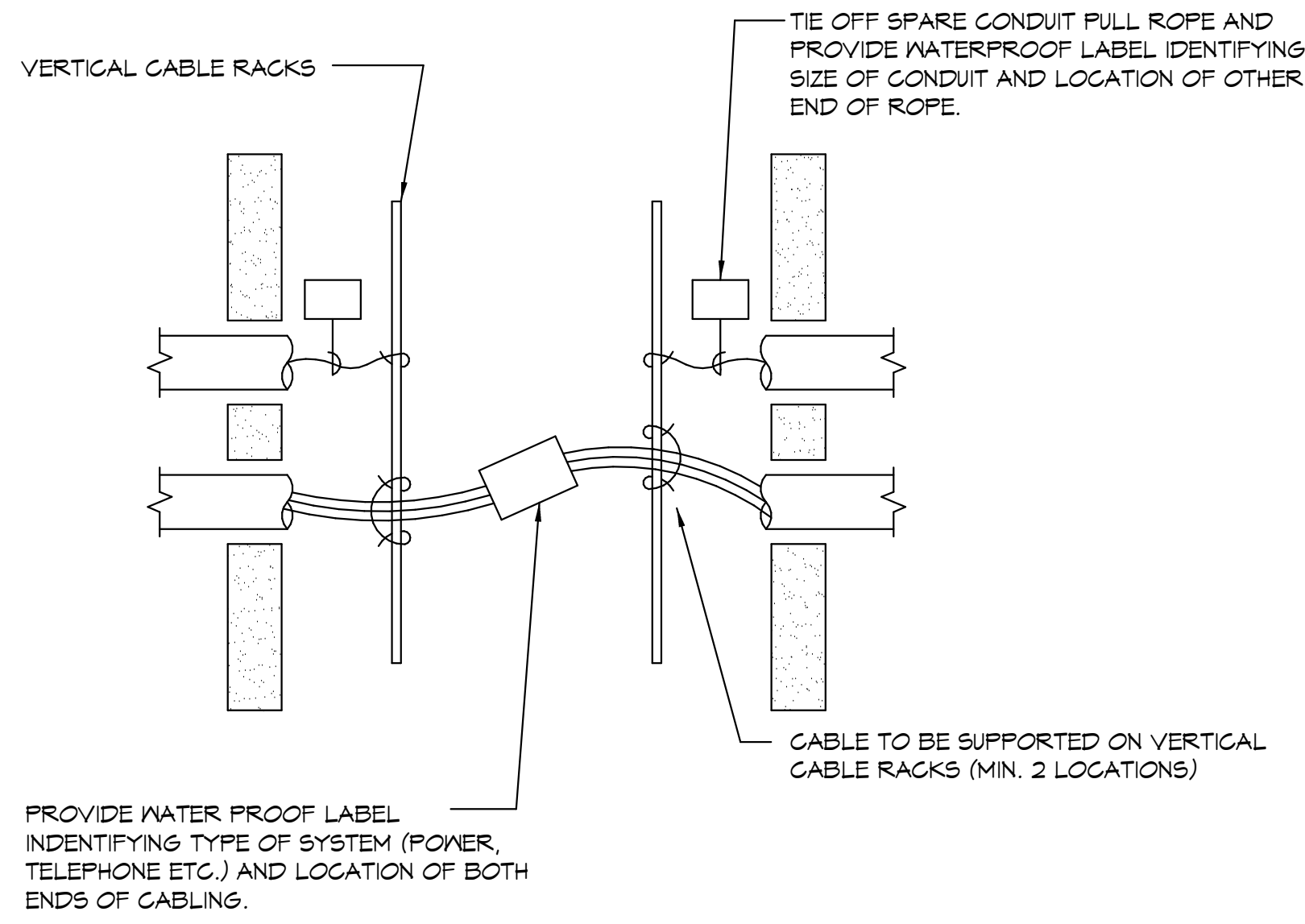
PROSPECT AVENUE ELEMENTARY SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

OVERALL SITE PLAN

Drawn: _____
 Author: _____
 Checked: _____
 Checker: _____
 Date: AUGUST 27, 2019
 Job: SSD-PA-03

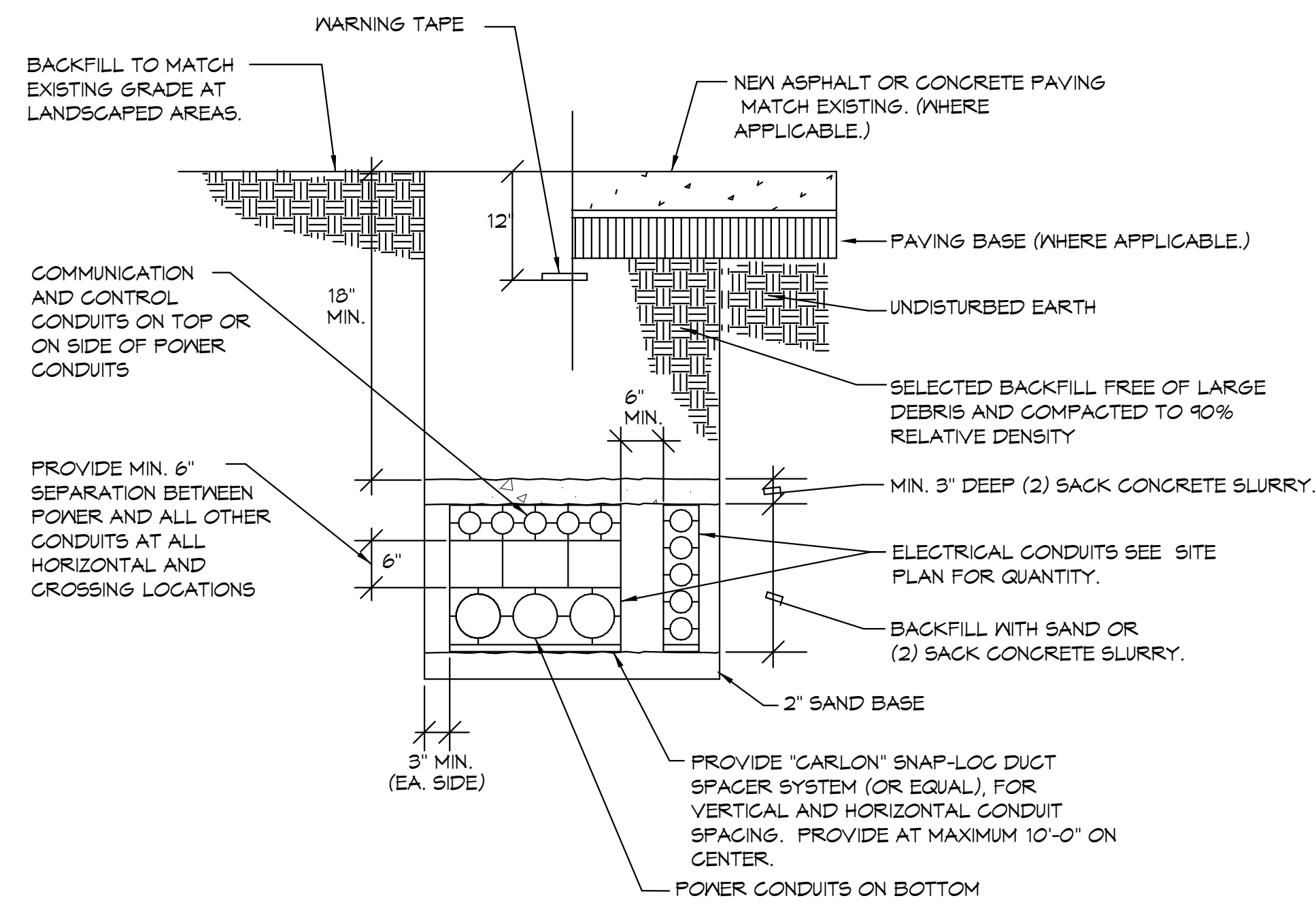
JOHNSON
 CONSULTING ENGINEERS, INC.
 Power | Lighting | Multimedia
 Communications | Data Networking
 12875 Brookprinter Place, Suite 300
 Poway, CA 92064
 P 858.679.4030 | F 858.513.0559
 www.jce-inc.com





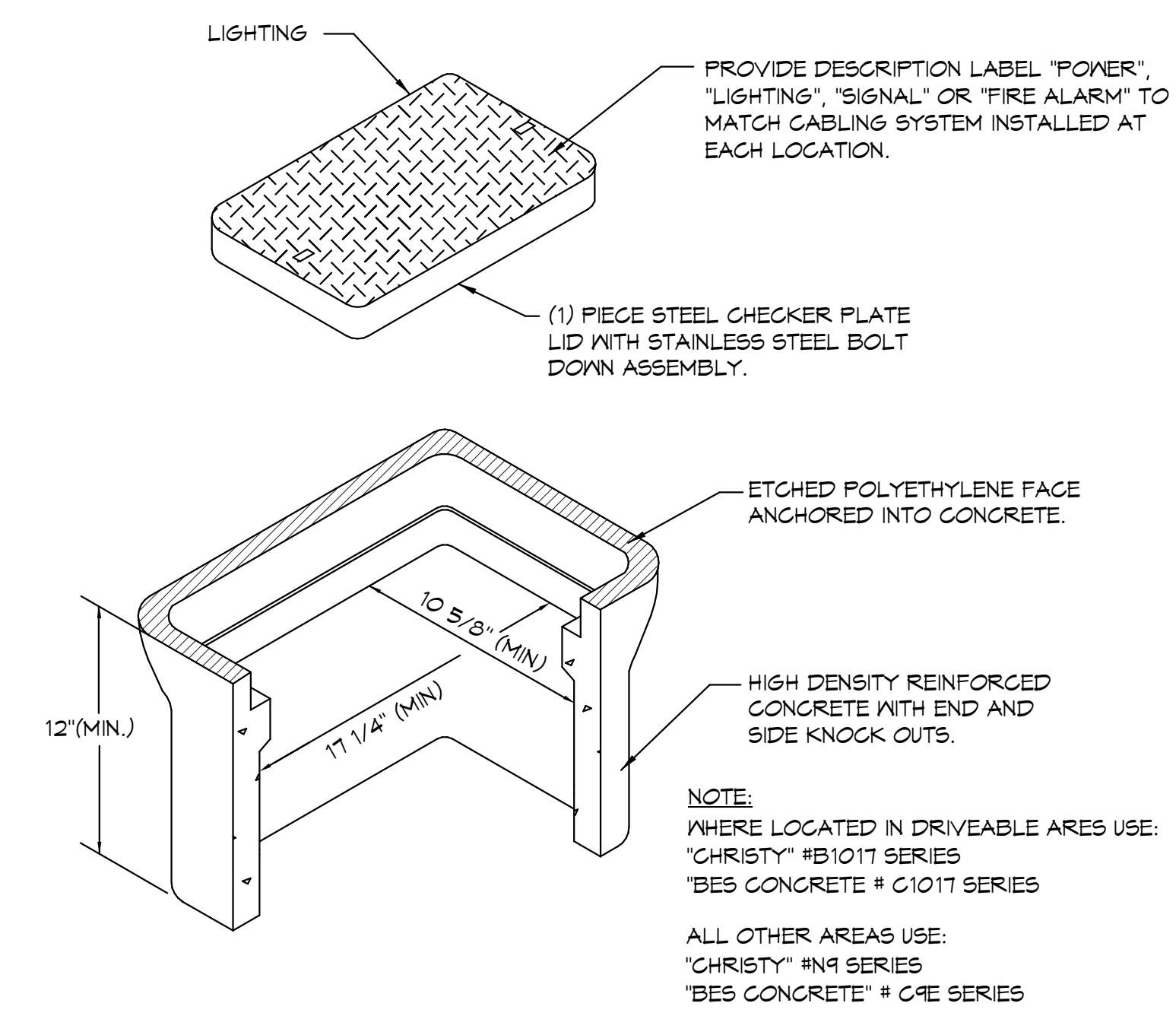
TYPICAL UNDERGROUND PULLBOX LABELING/SUPPORT DETAIL
NO SCALE

1
E1.2



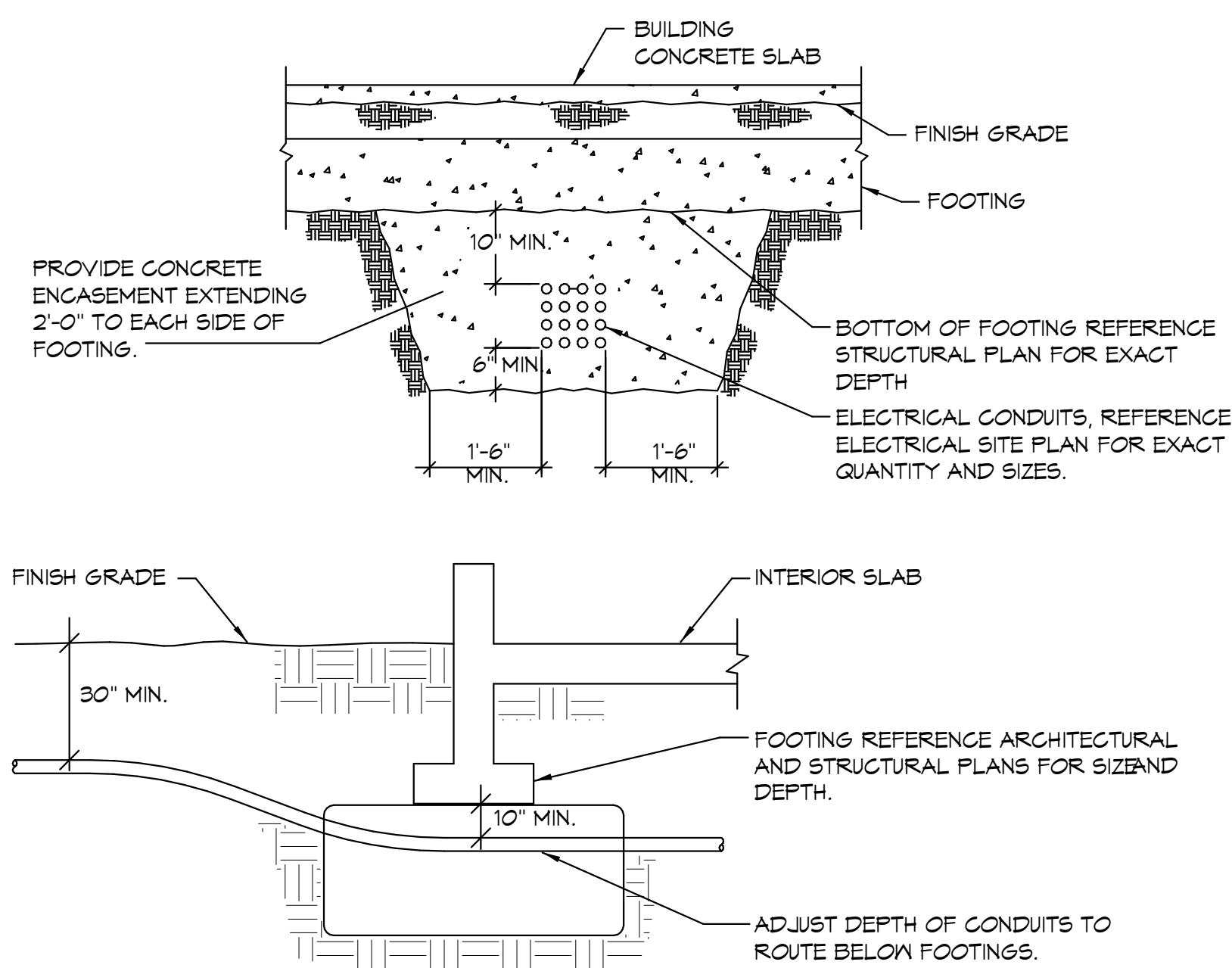
TYPICAL TRENCH DETAIL
NO SCALE

2
E1.2



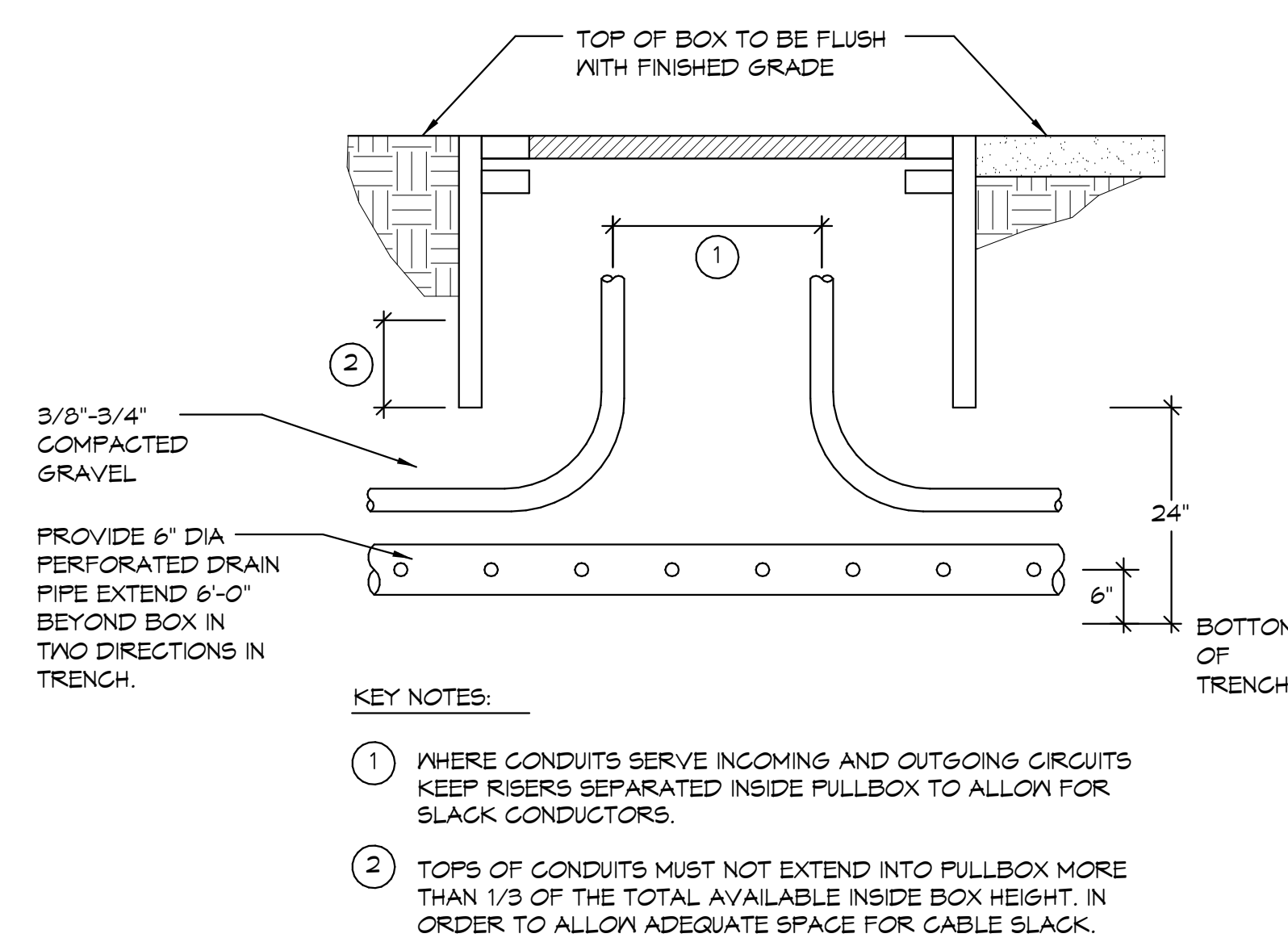
UNDERGROUND PULLBOX STYLE 'A'
NO SCALE

3
E1.2



UNDERGROUND CONDUIT - INSTALLATION AT BUILDING FOOTING
NO SCALE

4
E1.2



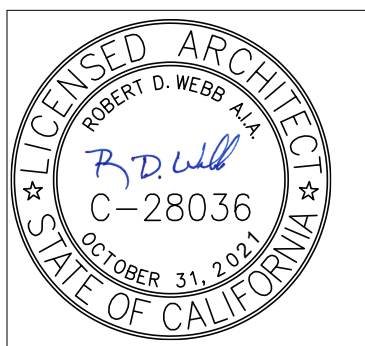
UNDERGROUND PULLBOX STYLE 'A' TYP. INSTALLATION
NO SCALE

5
E1.2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-118742 INC.
REVIEWED FOR
SS [] FLS [] ACS []
DATE: 02.05.20

Revision	Date

studiorwc
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Telephone: (760)753-5800 Fax: (760)452-7541



PROSPECT AVENUE ELEMENTARY
SCHOOL
LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

**SITE ELECTRICAL
DETAILS**

Drawn:
Author:
Checked:
Checker:
Date:
AUGUST 27, 2019
Job:
SSD-PA-03

E1.2

JOHNSON
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REGISTERED PROFESSIONAL ENGINEER
ROBERT D. WEBB
NO. E 14781
Exp. 5-30-2021
ELECTRICAL
STATE OF CALIFORNIA

1/21/2020 12:31:24 PM

INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE

Project Name: PROSPECT AVENUE ES - NEW IBC

Date Prepared: 1/10/2020

A. General Information

Client: Zone 10

Conditioned Floor Area: 4822

Unconditioned Floor Area: 0

Building Type: Nonresidential

Schools: Residential Public Schools Conditioned Spaces Unconditioned Spaces

Phase of Construction: New Construction Addition Alteration

Method of Compliance: Complete Lighting Schedule Area Category Tiered

Project Address: 12875 BROOKPARK PL, SUITE #100, POWAY, CA 92064

B. Lighting Compliance Documents

Lighting Schedule Documents (check one for each document included):

YES NO N/A

NRC-C11-01-1: Certificate of Compliance. All Pages required on plans for all submittals.

NRC-C11-01-2: Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.

NRC-C11-01-3: Interior Lighting Power Allowance

NRC-C11-01-4: Tiered Lighting Allowance

NRC-C11-01-5: Low Voltage Track Lighting Worksheet

NRC-C11-01-6: Interior Lighting Power Conditions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE

Project Name: PROSPECT AVENUE ES - NEW IBC

Date Prepared: 1/10/2020

C. Summary of Allowed Lighting Power

Conditioned and unconditioned space lighting must not be combined for compliance.

Room	Area (sq ft)	Power (W)	Notes
01	4822.3	4822.3	Unconditioned Lighting Power
02	0	0	Conditioned Lighting Power
03	0	0	Unconditioned Lighting Power
04	4822.3	4822.3	Conditioned Lighting Power

D. Declaration of Required Certifications

Decide by checking YES or NO for all Certifications that will be submitted. (Retain copies and verify forms are completed and signed.)

YES NO

NRC-C11-01-1: Must be submitted for all buildings.

NRC-C11-01-2: Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS).

NRC-C11-01-3: Must be submitted for a low-voltage track lighting emergency control system, or for a supplementary emergency power source used to energize only low-voltage track lighting.

NRC-C11-01-4: Must be submitted for two interconnected systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater.

NRC-C11-01-5: Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.

NRC-C11-01-6: Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE

Project Name: PROSPECT AVENUE ES - NEW IBC

Date Prepared: 1/10/2020

E. Declaration of Required Certifications of Acceptance

Decide by checking YES or NO for all Certifications of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES NO

NRC-C11-01-A: Must be submitted for occupancy sensors and automatic time switch controls.

NRC-C11-01-B: Must be submitted for automatic daylight controls.

NRC-C11-01-C: Must be submitted for demand responsive lighting controls.

NRC-C11-01-D: Must be submitted for institutional tuning power adjustment factor (PAF).

F. Interior Lighting Schedule and Field Inspection Energy Checklist

The field interior lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.

Room	Area (sq ft)	Watts	Notes
01	4822.3	4822.3	Unconditioned Lighting Power
02	0	0	Conditioned Lighting Power
03	0	0	Unconditioned Lighting Power
04	4822.3	4822.3	Conditioned Lighting Power

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE

Project Name: PROSPECT AVENUE ES - NEW IBC

Date Prepared: 1/10/2020

G. Installed Portable Luminaires in Offices - Exception to Section 140.6(a)

This section shall be filled out ONLY for portable luminaires in offices (As defined in 150C.1). All other planned portable luminaires shall be documented on next page of this compliance document.

YES NO

NRC-C11-01-E: Must be submitted for occupancy sensors and automatic time switch controls.

NRC-C11-01-F: Must be submitted for demand responsive lighting controls.

NRC-C11-01-G: Must be submitted for institutional tuning power adjustment factor (PAF).

Room	Area (sq ft)	Watts	Notes
01	4822.3	4822.3	Unconditioned Lighting Power
02	0	0	Conditioned Lighting Power
03	0	0	Unconditioned Lighting Power
04	4822.3	4822.3	Conditioned Lighting Power

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE

Project Name: PROSPECT AVENUE ES - NEW IBC

Date Prepared: 1/10/2020

H. Interior Lighting Schedule and Field Inspection Energy Checklist

Room	Area (sq ft)	Watts	Notes
01	4822.3	4822.3	Unconditioned Lighting Power
02	0	0	Conditioned Lighting Power
03	0	0	Unconditioned Lighting Power
04	4822.3	4822.3	Conditioned Lighting Power

Room	Area (sq ft)	Watts	Notes
01	4822.3	4822.3	Unconditioned Lighting Power
02	0	0	Conditioned Lighting Power
03	0	0	Unconditioned Lighting Power
04	4822.3	4822.3	Conditioned Lighting Power

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE

Project Name: PROSPECT AVENUE ES - NEW IBC

Date Prepared: 1/10/2020

I. Declaration of Required Certifications of Acceptance

Decide by checking YES or NO for all Certifications that will be submitted. (Retain copies and verify forms are completed and signed.)

YES NO

NRC-C11-01-A: Must be submitted for occupancy sensors and automatic time switch controls.

NRC-C11-01-B: Must be submitted for automatic daylight controls.

NRC-C11-01-C: Must be submitted for demand responsive lighting controls.

NRC-C11-01-D: Must be submitted for institutional tuning power adjustment factor (PAF).

J. Mandatory and Prescriptive Interior Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Room	Area (sq ft)	Watts	Notes
01	4822.3	4822.3	Unconditioned Lighting Power
02	0	0	Conditioned Lighting Power
03	0	0	Unconditioned Lighting Power
04	4822.3	4822.3	Conditioned Lighting Power

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

INDOOR LIGHTING - LIGHTING CONTROLS

CERTIFICATE OF COMPLIANCE

Project Name: PROSPECT AVENUE ES - NEW IBC

Date Prepared: 1/10/2020

A. Mandatory Lighting Control Declaration Statements

Indicate if the measure applies by checking yes or no below.

YES NO

Lighting shall be controlled by a lighting control system or energy management control system in accordance with Section 130.20.

Lighting shall be controlled by a lighting control system or energy management control system in accordance with Section 130.20.

One or more track lighting integral control units shall be installed in accordance with Section 130.19 and 130.20.

Track lighting system shall be installed in accordance with Section 130.19 and 130.20.

All luminaires shall be manually controlled with manual ON and OFF lighting controls in accordance with Section 130.16.

General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, display, video, low-voltage, ornamental, and special effects lighting shall each be separately controlled, in accordance with Section 130.16(a).

The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.18(b).

All installed indoor lighting shall be equipped with controls that meet the applicable Shut-Off control requirements in Section 130.16(c).

Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.16(d) and daylight zones are shown on the plans.

Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Response Signal in accordance with Section 130.16(e).

Before an occupancy permit is issued for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.16(f). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-off controls, and demand response controls.

B. Mandatory and Prescriptive Interior Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Room	Area (sq ft)	Watts	Notes
01	4822.3	4822.3	Unconditioned Lighting Power
02	0	0	Conditioned Lighting Power
03	0	0	Unconditioned Lighting Power
04	4822.3	4822.3	Conditioned Lighting Power

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

January 2016

INDOOR LIGHTING - LIGHTING CONTROLS

CERTIFICATE OF COMPLIANCE

Project Name: PROSPECT AVENUE ES - NEW IBC

Date Prepared: 1/10/2020

A. Declaration of Required Certifications of Acceptance

Decide by checking YES or NO for all Certifications that will be submitted. (Retain copies and verify forms are completed and signed.)

YES NO

NRC-C11-01-A: Must be submitted for occupancy sensors and automatic time switch controls.

NRC-C11-01-B: Must be submitted for automatic daylight controls.

NRC-C11-01-C: Must be submitted for demand responsive lighting controls.

NRC-C11-01-D: Must be submitted for institutional tuning power adjustment factor (PAF).

B. Mandatory and Prescriptive Interior Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Room	Area (sq ft)	Watts	Notes
01	4822.3	4822.3	Unconditioned Lighting Power
02	0	0	Conditioned Lighting Power
03	0	0	Unconditioned Lighting Power
04	4822.3	4822.3	Conditioned Lighting Power

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

January 2016

INDOOR LIGHTING - LIGHTING CONTROLS

CERTIFICATE OF COMPLIANCE

Project Name: PROSPECT AVENUE ES - NEW IBC

Date Prepared: 1/10/2020

A. Declaration of Required Certifications of Acceptance

Decide by checking YES or NO for all Certifications that will be submitted. (Retain copies and verify forms are completed and signed.)

YES NO

NRC-C11-01-A: Must be submitted for occupancy sensors and automatic time switch controls.

NRC-C11-01-B: Must be submitted for automatic daylight controls.

NRC-C11-01-C: Must be submitted for demand responsive lighting controls.

NRC-C11-01-D: Must be submitted for institutional tuning power adjustment factor (PAF).

B. Mandatory and Prescriptive Interior Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Room	Area (sq ft)	Watts	Notes
01	4822.3	4822.3	Unconditioned Lighting Power
02	0	0	Conditioned Lighting Power
03	0	0	Unconditioned Lighting Power
04	4822.3	4822.3	Conditioned Lighting Power

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

January 2016

INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE

Project Name: PROSPECT AVENUE ES - NEW IBC

Date Prepared: 1/10/2020

A. Declaration of Required Certifications of Acceptance

Decide by checking YES or NO for all Certifications that will be submitted. (Retain copies and verify forms are completed and signed.)

YES NO

NRC-C11-01-A: Must be submitted for occupancy sensors and automatic time switch controls.

NRC-C11-01-B: Must be submitted for automatic daylight controls.

NRC-C11-01-C: Must be submitted for demand responsive lighting controls.

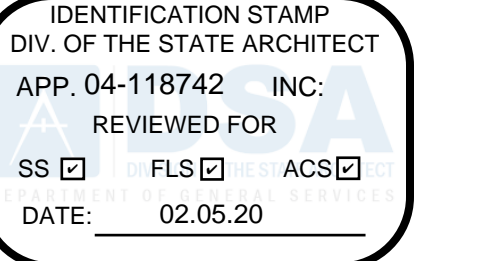
NRC-C11-01-D: Must be submitted for institutional tuning power adjustment factor (PAF).

B. Mandatory and Prescriptive Interior Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Room	Area (sq ft)	Watts	Notes
01	4822.3	4822.3	Unconditioned Lighting Power
02	0	0	Conditioned Lighting Power
03	0	0	Unconditioned Lighting Power
04	4822.3	4822.3	Conditioned Lighting Power

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

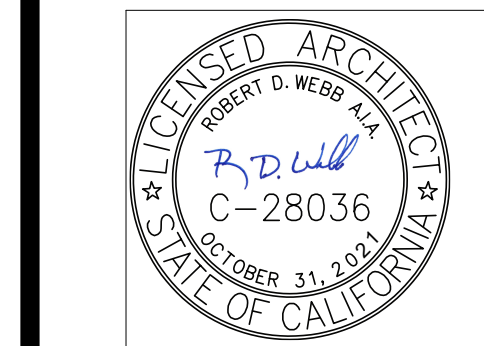
January 2016



Revision	Date

studiorw
ARCHITECTURE + ENGINEERING

616 Empire Blvd., Ste. 201, Escondido, California 92024
Telephone: (760)733-5800 Fax: (760)452-7541

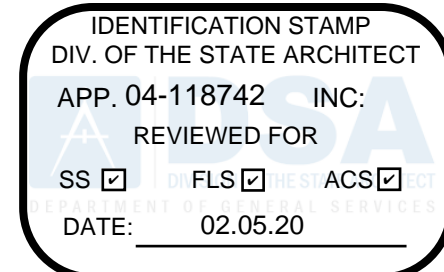


TITLE 24 - INDOOR
PROSPECT AVENUE ELEMENTARY
SCHOOL
LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

Drawn: Author
Checked: Checker
Date: AUGUST 27, 2019
Job: SSD-PA-03



E2.0.0



STATE OF CALIFORNIA OUTDOOR LIGHTING CERTIFICATE OF COMPLIANCE. Project: 800 PROSPECT AVENUE, SANTEE, CA 92071. Issued: 11/05/2019. Page 2 of 4.

STATE OF CALIFORNIA OUTDOOR LIGHTING CERTIFICATE OF COMPLIANCE. Project: 800 PROSPECT AVENUE ES - NEW ILC. Issued: 11/05/2019. Page 2 of 4.

STATE OF CALIFORNIA OUTDOOR LIGHTING CERTIFICATE OF COMPLIANCE. Project: 800 PROSPECT AVENUE ES - NEW ILC. Issued: 11/05/2019. Page 3 of 4.

STATE OF CALIFORNIA OUTDOOR LIGHTING CERTIFICATE OF COMPLIANCE. Project: 800 PROSPECT AVENUE ES - NEW ILC. Issued: 11/05/2019. Page 4 of 4.

STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS CERTIFICATE OF COMPLIANCE. Project: 800 PROSPECT AVENUE ES - NEW ILC. Issued: 11/05/2019. Page 1 of 3.

STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS CERTIFICATE OF COMPLIANCE. Project: 800 PROSPECT AVENUE ES - NEW ILC. Issued: 11/05/2019. Page 1 of 3.

STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS CERTIFICATE OF COMPLIANCE. Project: 800 PROSPECT AVENUE ES - NEW ILC. Issued: 11/05/2019. Page 2 of 3.

STATE OF CALIFORNIA ELECTRICAL POWER DISTRIBUTION CERTIFICATE OF COMPLIANCE. Project: 800 PROSPECT AVENUE, SANTEE, CA 92071. Issued: 11/05/2019. Page 1 of 4.

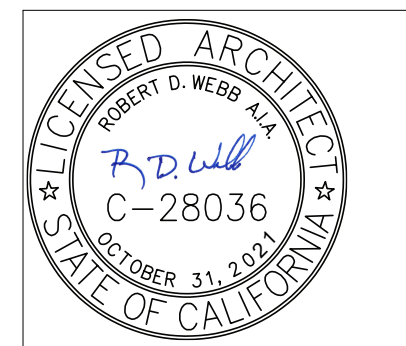
STATE OF CALIFORNIA ELECTRICAL POWER DISTRIBUTION CERTIFICATE OF COMPLIANCE. Project: 800 PROSPECT AVENUE ES - NEW ILC. Issued: 11/05/2019. Page 2 of 4.

STATE OF CALIFORNIA ELECTRICAL POWER DISTRIBUTION CERTIFICATE OF COMPLIANCE. Project: 800 PROSPECT AVENUE ES - NEW ILC. Issued: 11/05/2019. Page 3 of 4.

STATE OF CALIFORNIA ELECTRICAL POWER DISTRIBUTION CERTIFICATE OF COMPLIANCE. Project: 800 PROSPECT AVENUE ES - NEW ILC. Issued: 11/05/2019. Page 4 of 4.

Revision table with columns for Date, Revision, and Description.

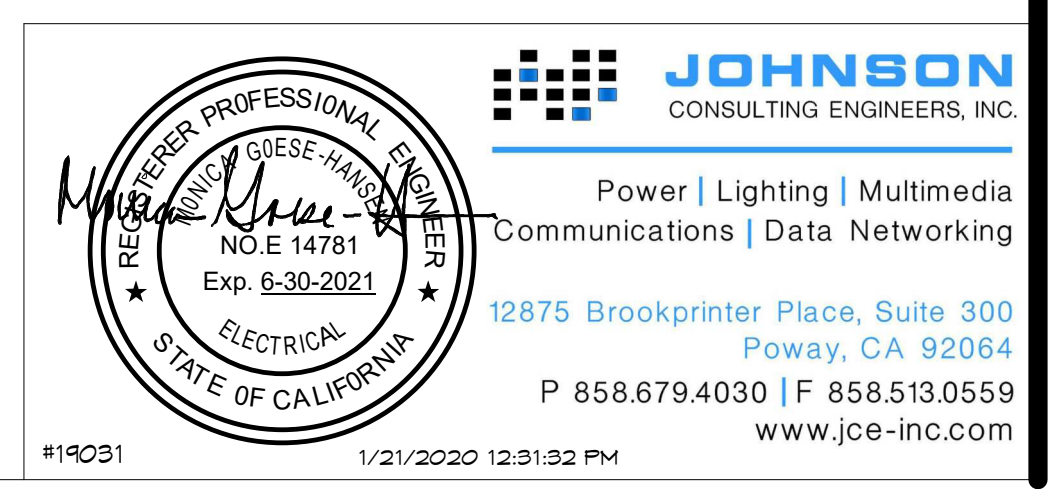
studiowc ARCHITECTURE + ENGINEERING. 515 Esplanade Blvd, Ste. 201, Escondido, California, 92024. Telephone: (760)733-5800 Fax: (760)452-7541.



PROSPECT AVENUE ELEMENTARY SCHOOL LIBRARY RESOURCE CENTER (LRC) SANTEE SCHOOL DISTRICT

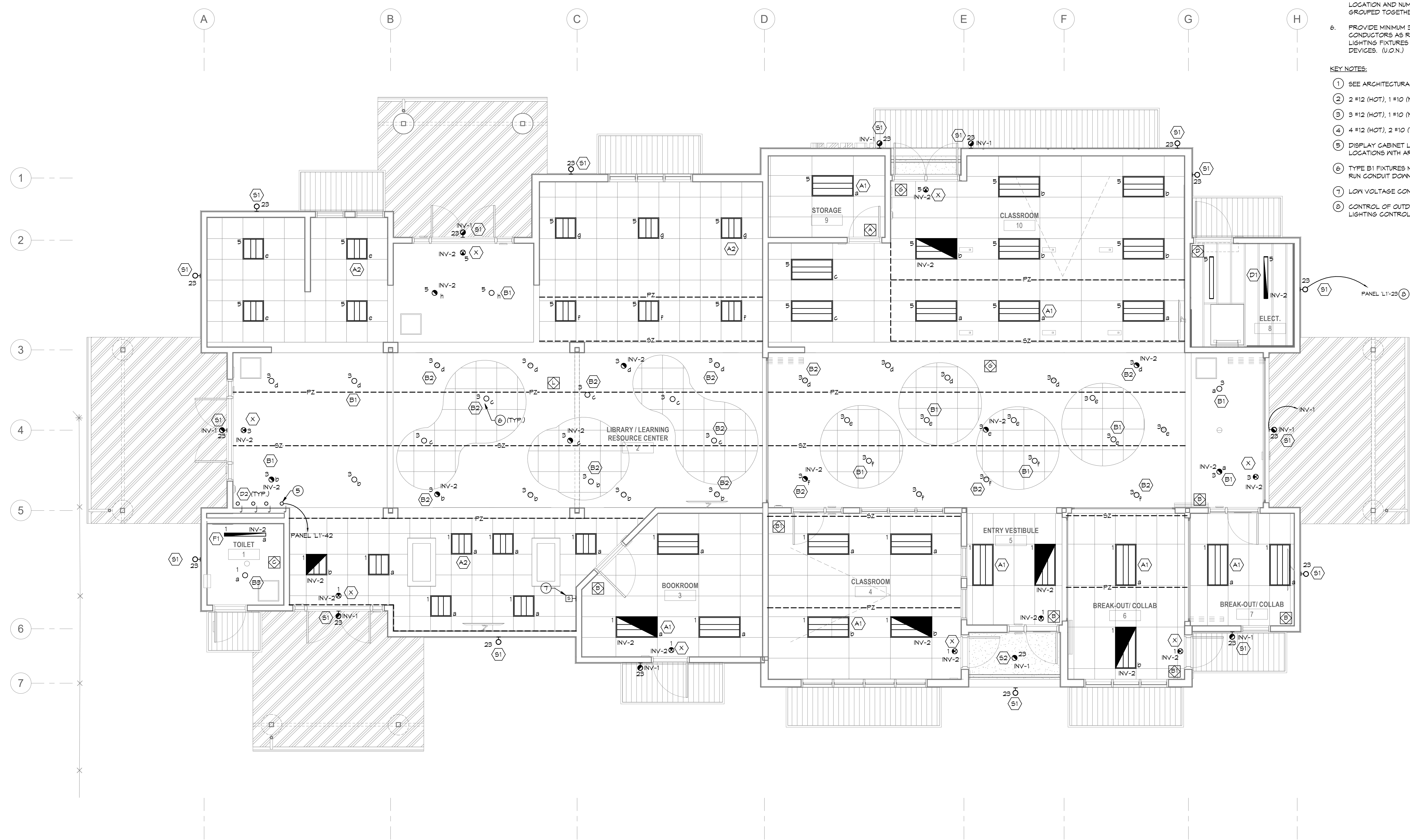
TITLE 24 - OUTDOOR & POWER DIST.

Drawn: Author, Checked: Checker, Date: AUGUST 27, 2019, Job: SSD-PA-03



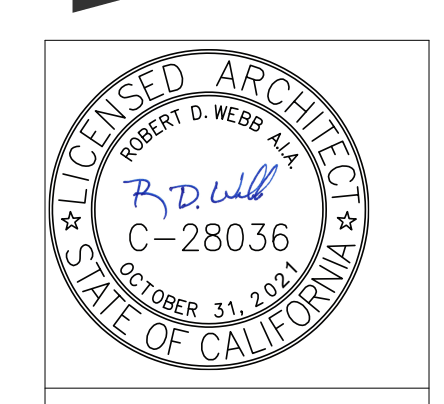
- GENERAL NOTES:**
1. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
 2. REFERENCE E2 SERIES SHEETS FOR ALL FIXTURE TYPES AND FOR TYPICAL DETAILS.
 3. REFERENCE E9 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
 4. LETTERS IN OR ADJACENT TO EACH FIXTURE OR FIXTURE ROW INDICATES SWITCH AND OR OCCUPANCY SENSOR WHICH CONTROLS THE LIGHTING FIXTURE.
 5. CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
 6. PROVIDE MINIMUM 3/4" CONDUIT AND #12 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH LIGHTING FIXTURES TO THEIR INDICATED CONTROL DEVICES. (U.O.N.)

- KEY NOTES:**
- 1 SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
 - 2 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
 - 3 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
 - 4 #12 (HOT), 2 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
 - 5 DISPLAY CABINET LIGHTING. COORDINATE LOCATIONS WITH ARCHITECTURAL MILLWORK.
 - 6 TYPE B1 FIXTURES MOUNTED IN CLOUDS TYPICAL. RUN CONDUIT DOWN COMP. STRUTS.
 - 7 LOW VOLTAGE CONTROL SWITCHBANK. SEE 1/E2.3.
 - 8 CONTROL OF OUTDOOR LIGHTING VIA TIMECLOCK IN LIGHTING CONTROL PANEL 'LCP-A'



Date	Revision	Consultant

studiowc
 ARCHITECTURE + ENGINEERING
 615 Esplanade Blvd, Ste. 201, Escondido, California 92024
 Telephone: (760)753-5800 Fax: (760)452-7541



PROSPECT AVENUE ELEMENTARY
 SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

**LEVEL 1 FLOOR
 PLAN - LIGHTING**

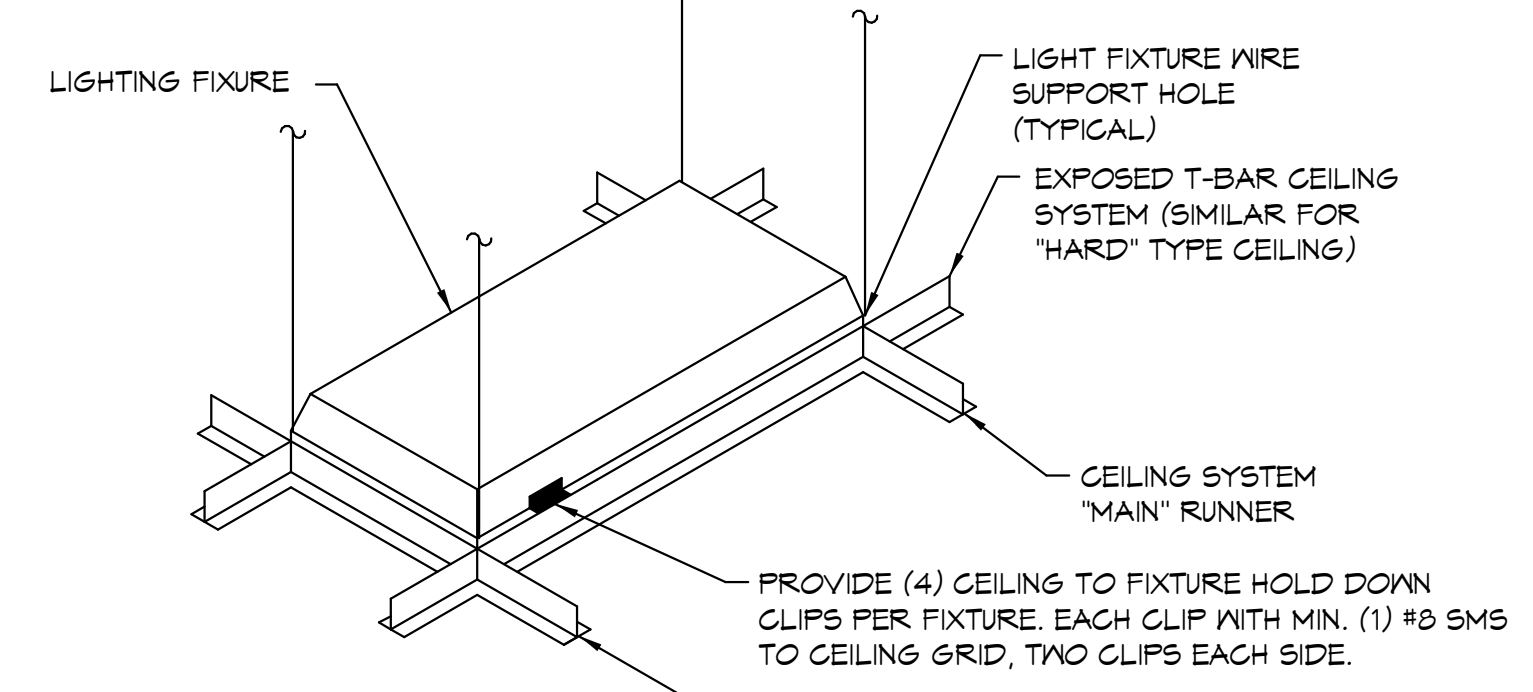
Drawn:
 Author:
 Checked:
 Checker:
 Date:
 AUGUST 27, 2019
 Job:
 SSD-PA-03

E2.1

JOHNSON
 CONSULTING ENGINEERS, INC.
 Power | Lighting | Multimedia
 Communications | Data Networking
 12875 Brookprinter Place, Suite 300
 Poway, CA 92064
 P 858.679.4030 | F 858.513.0559
 www.jce-inc.com

Professional Engineer Seal for Michael Giese, License No. E 14781, State of California, expires 5-30-2021.

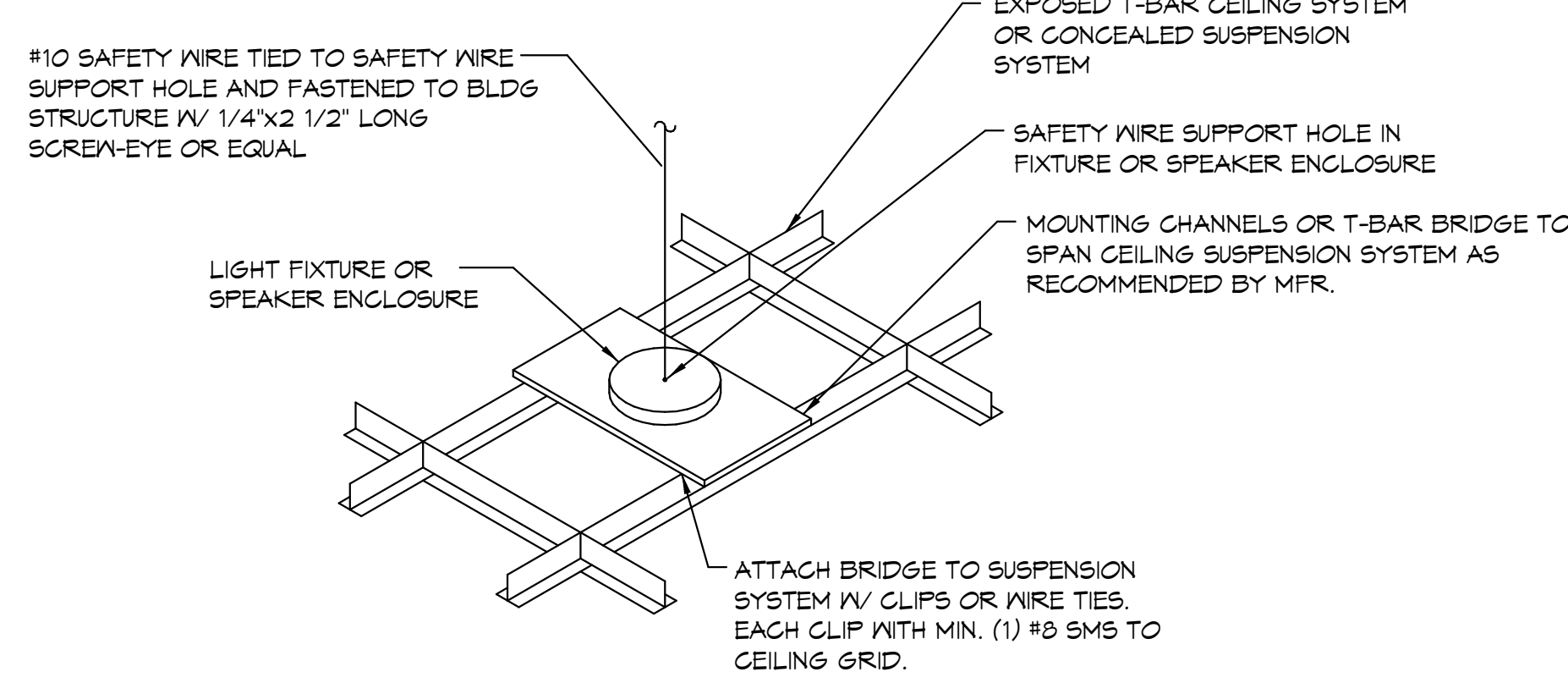
#12 GA. HANGER WIRE TIED TO LIGHTING FIXTURE WIRE SUPPORT HOLES. FASTEN TO BLDG STRUCTURE WITH 1/4" X 2 1/2" LONG SCREW EYE OR EQUAL. PROVIDE MINIMUM (4) WIRES PER FIXTURE.



NOTE:
 1. WHERE FIXTURES ARE INSTALLED IN HEAVY-DUTY TYPE LAY-IN CEILINGS AND THE TOTAL WEIGHT OF THE FIXTURE IS LESS THAN 50 LBS. REDUCE THE QUANTITY OF HANGER WIRES TO (2) SLACK WIRES AT DIAGONAL CORNERS.
 2. REFERENCE ARCHITECTURAL PLANS FOR ADDITIONAL CEILING ANCHORAGE REQUIREMENTS.

LUMINAIRE SEISMIC RESTRAINT DETAIL
 NO SCALE

1
 E2.2



LUMINAIRE AND SPEAKER ENCLOSURE SEISMIC RESTRAINT DETAIL
 NO SCALE

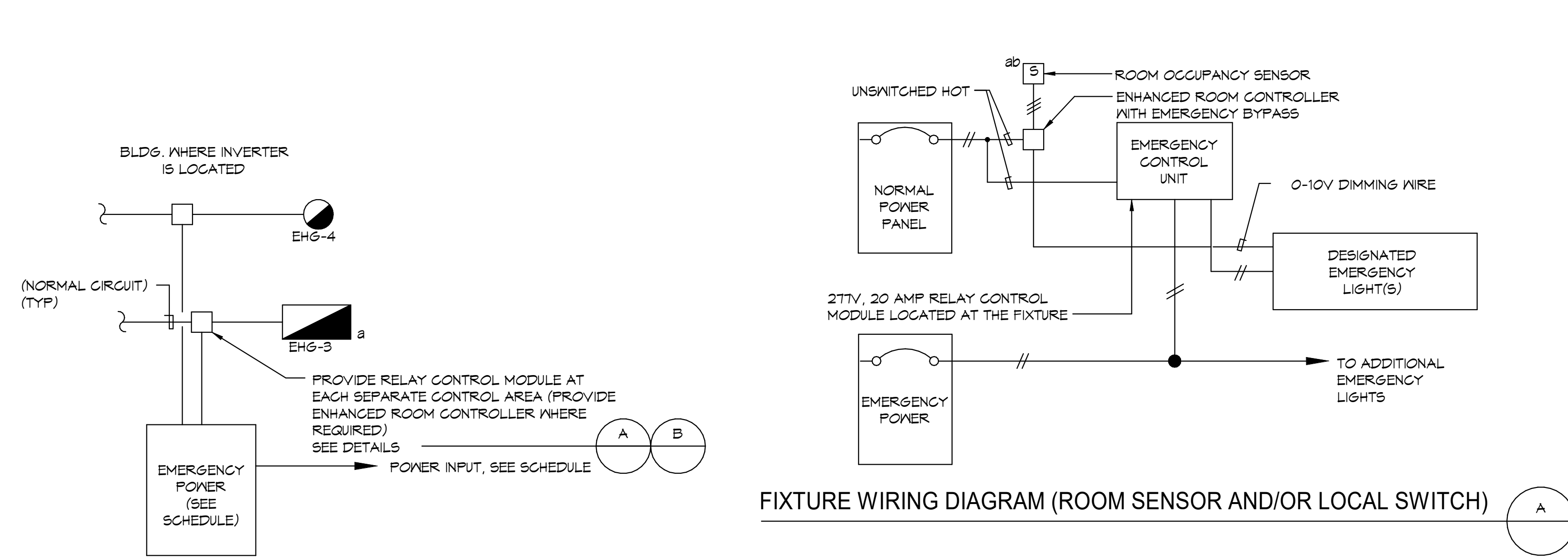
2
 E2.2

INVERTER SCHEDULE				
CENTRAL INVERTER LOCATION	INVERTER I.D.	INVERTER TYPE I.D. (SEE SCHEDULE BELOW)	OUTPUT CIRCUITS	REMARKS
LRG	INV	INV20	INV-1, INV-2	

INVERTER TYPE SCHEDULE					
I.D.	MINIMUM KVA RATING	*INPUT BREAKER (VOLTAGE/POLES)	*OUTPUT BREAKER (REFERENCE PLANS FOR QTY. REQUIRED)	**MAXIMUM ENCLOSURE SIZE: WIDTH X HEIGHT X DEPTH (HEIGHT)	NOTES:
INV20	2.0	25A (120/1) / 15A (277/1)	(4) 20 AMP / 1 POLE (MAX.)	FLOOR MOUNTED (1) 28"X x 10"X x 10"D - CONTROL (4) 28"X x 10"X x 10"D - BATTERY	*VALUES SHOWN ON SCHEDULE ARE BASED ON MYERS PRODUCTS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING INPUT/OUTPUT REQUIREMENTS WHEN NON-MYERS PRODUCTS ARE USED. **MAXIMUM DIMENSIONS AND WEIGHTS BASED ON APPROVED MANUFACTURERS PRODUCTS. SEE SPECIFICATIONS.

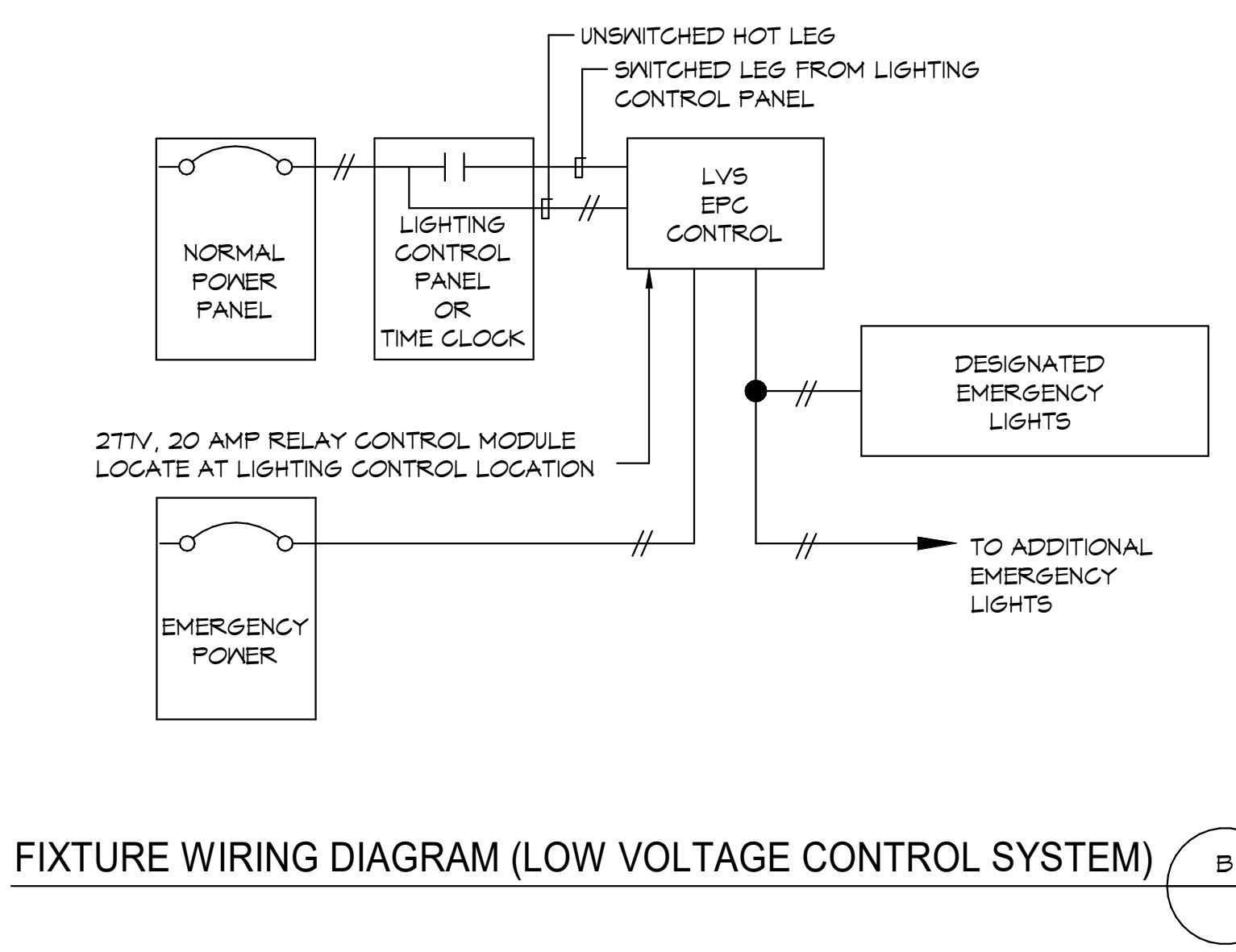
EMERGENCY LIGHTING CONTROL DIAGRAM
 NO SCALE

3
 E2.2



EMERGENCY POWER CONFIGURATION DIAGRAM
 NO SCALE

4
 E2.2



FIXTURE WIRING DIAGRAM (LOW VOLTAGE CONTROL SYSTEM)

Mark	Approved Manufacturer's (See Key Note No. 1)	Catalog Series Type (See Key Note No. 2)	FITTURE		MOUNTING					Description	
			OTHER	LED	Recessed Ceiling	Surface Ceiling	Surface Wall	Pendant	Surface Wall		Pole
A1	LITHONIA DAY-BRITE	2VTL SERIES FLUX GRID 2X4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2'X4' VOLUMETRIC T-GRID WITH ACRYLIC LINEAR PRISMATIC DIFFUSER. MINIMUM 4800 LUMEN AT 5000K. DRIVER VOLTAGE UNIVERSAL 39.1w Driver 120/277V 0-10v Dim Provide Emergency Ballast Type 'EM' Provide Custom Color Finish, to be selected at time submittal See Detail 1 E2.2
A2	LITHONIA DAY-BRITE	2VTL2 SERIES FLUX GRID 2X2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2'X2' VOLUMETRIC T-GRID WITH ACRYLIC LINEAR PRISMATIC DIFFUSER. MINIMUM 4800 LUMEN AT 5000K. DRIVER VOLTAGE UNIVERSAL 39.1w Driver 120/277V 0-10v Dim Provide Emergency Ballast Type 'EM' Provide Custom Color Finish, to be selected at time submittal See Detail 1 E2.2
B1	GOTHAM INTENSE	EVO 6" GRAVITY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6" DIAMETER OPEN DOWNLIGHT 5000 LUMEN AT 5000K SEMI-SPECULAR DIFFUSER 41w Driver 120/277V 0-10v Dim Provide Emergency Ballast Type 'EM' Provide Custom Color Finish, to be selected at time submittal See Detail
B2	GOTHAM INTENSE	EVO 6" GRAVITY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SAME AS TYPE 'B1' EXCEPT 6000 LUMEN AT 5000K 69w Driver 120/277V 0-10v Dim Provide Emergency Ballast Type 'EM' Provide Custom Color Finish, to be selected at time submittal See Detail
B3	LITHONIA INTENSE	LDN4 4" GRAVITY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4" DIAMETER OPEN DOWNLIGHT 2000 LUMEN AT 5000K 26.6w Driver 120/277V 0-10v Dim Provide Emergency Ballast Type 'EM' Provide Custom Color Finish, to be selected at time submittal See Detail
D1	LITHONIA DAYBRITE	CLX SERIES FLUXSTREAM	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	48" SURFACE STRIP, CEILING MOUNTED. FLAT DIFFUSER LENS. MINIMUM 4000 LUMEN AT 5000K 25w Driver 120/277V 0-10v Dim Provide Emergency Ballast Type 'EM' Provide Custom Color Finish, to be selected at time submittal See Detail
D2	MP LIGHTING	L52 SERIES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4100K DISPLAY LIGHT. MATTE CLEAR ANODIZED FINISH 30 DEG BEAM. 78 LUMENS. PROVIDE LOW VOLTAGE TRANSFORMER AS REQUIRED. 1w Driver 120/277V 0-10v Dim Provide Emergency Ballast Type 'EM' Provide Custom Color Finish, to be selected at time submittal See Detail
F1	MARK BIRCHWOOD	SLOT 4 LED JAKE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	48" X 4" RECESSED LINEAR FLUSH LENS. MINIMUM 4000 LUMEN AT 5000K 40w Driver 120/277V 0-10v Dim Provide Emergency Ballast Type 'EM' Provide Custom Color Finish, to be selected at time submittal See Detail
S1	NLS LIGHTING	TRAC WALL MOUNT SLOPE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ARCHITECTURAL WALL SCONCE TYPE 3 DISTRIBUTION MIN. 3500 LUMENS AT 5000K. WET LOCATION LISTED. BRONZE FINISH. 26w Driver 120/277V 0-10v Dim Provide Emergency Ballast Type 'EM' Provide Custom Color Finish, to be selected at time submittal See Detail
S2	GOTHAM COVENTRY PHILLIPS LIGHTOLIER	6" EVO SERIES 6LB78VWL SERIES CALCULITE GEN3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6" DIA. MINIMUM 3000 LUMEN AT 5000K. WET LOCATION LISTED. VANDAL RESISTANT PRISMATIC POLYCARBONATE LENS. 23w Driver 120/277V 0-10v Dim Provide Emergency Ballast Type 'EM' Provide Custom Color Finish, to be selected at time submittal See Detail
X	COOPER EXITTRONIX	APX SERIES ILLUMINEX SERIES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SURFACE MOUNT WHITE THERMOPLASTIC LED EXIT SIGN. GREEN LETTERING 1w Driver 120/277V 0-10v Dim Provide Emergency Ballast Type 'EM' Provide Custom Color Finish, to be selected at time submittal See Detail

LIGHTING FIXTURE SCHEDULE KEY NOTES:
 1. ALTERNATE MANUFACTURERS TO THOSE SPECIFIED MAY BE SUBMITTED FOR APPROVAL. ALTERNATE MANUFACTURERS MUST MEET THE MINIMUM CRITERIA INDICATED IN THE DESCRIPTION AND OPTIONS COLUMNS OF THIS SCHEDULE, AND MUST BE EQUAL TO THE SPECIFIED FIXTURE AS DETERMINED BY THE SPECIFYING ENGINEER. (ALTERNATE FIXTURES MUST BE APPROVED PRIOR TO BID, ALLOW 12 HOURS FOR ENGINEER REVIEW AND APPROVAL). WHERE NO KNOWN EQUAL IS INDICATED THE FIXTURE DOES NOT HAVE AN EQUAL TO MEET THE PROJECT REQUIREMENTS, AND ALTERNATE SELECTIONS WILL NOT BE ACCEPTED.
 2. COMPLETE CATALOG NUMBERS HAVE NOT BEEN PROVIDED, REFERENCE THE DESCRIPTION AND OPTIONS COLUMNS OF THIS SCHEDULE FOR COMPLETE FIXTURE REQUIREMENTS.

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PROSPECT AVENUE ELEMENTARY
 SCHOOL
 LIBRARY RESOURCE CENTER (LRG)
 SANTEE SCHOOL DISTRICT

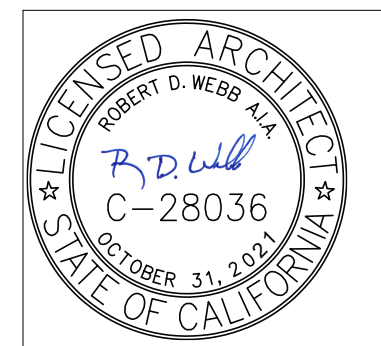
LIGHTING
 SCHEDULE &
 DETAILS

Drawn:
 Author:
 Checked:
 Checker:
 Date:
 AUGUST 27, 2019
 Job:
 SSD-PA-03

E2.2

Revision	Date

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**LIGHTING CONTROL
 DIAGRAMS**

Drawn:
 Author:
 Checked:
 Checker:
 Date:
 AUGUST 27, 2019
 Job:
 SSD-PA-03

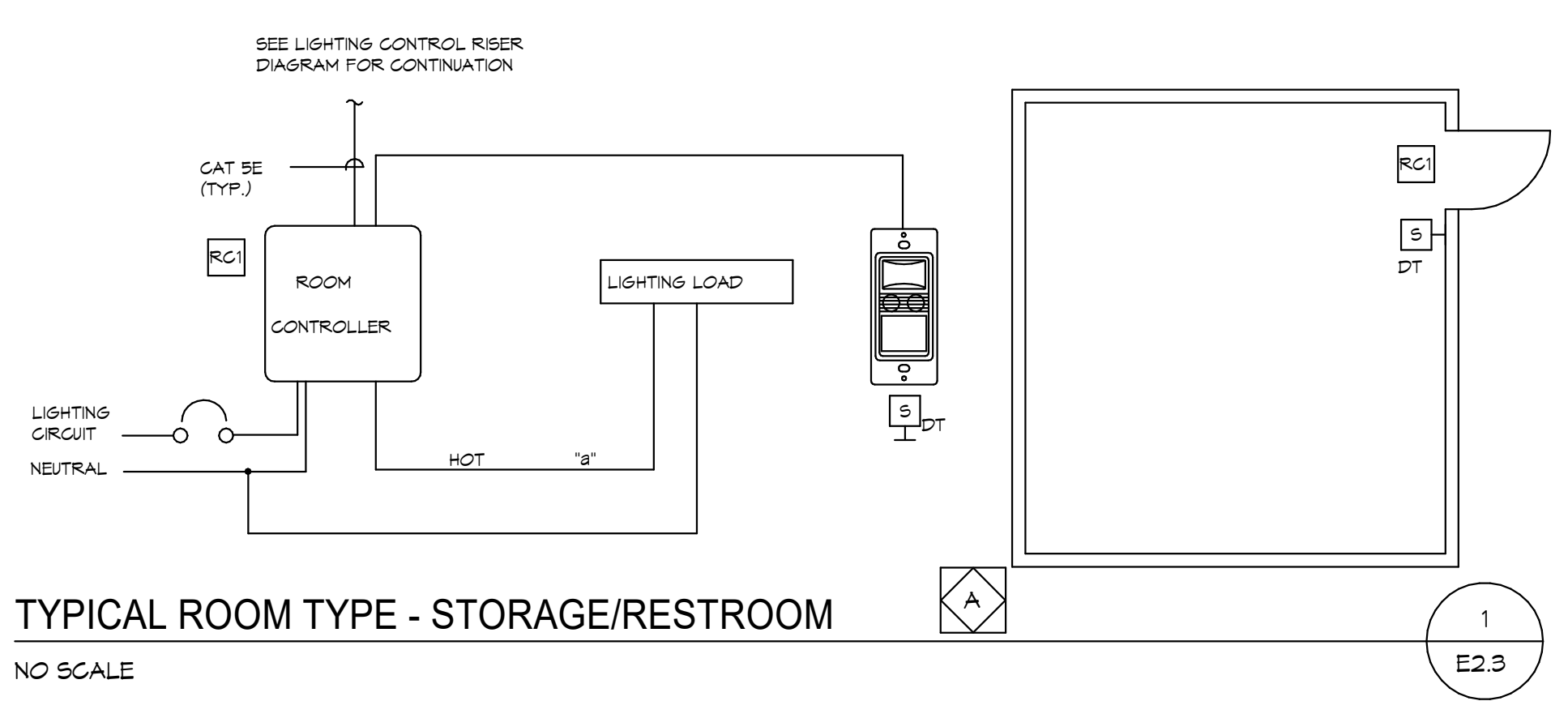
E2.3

SYMBOL LEGEND

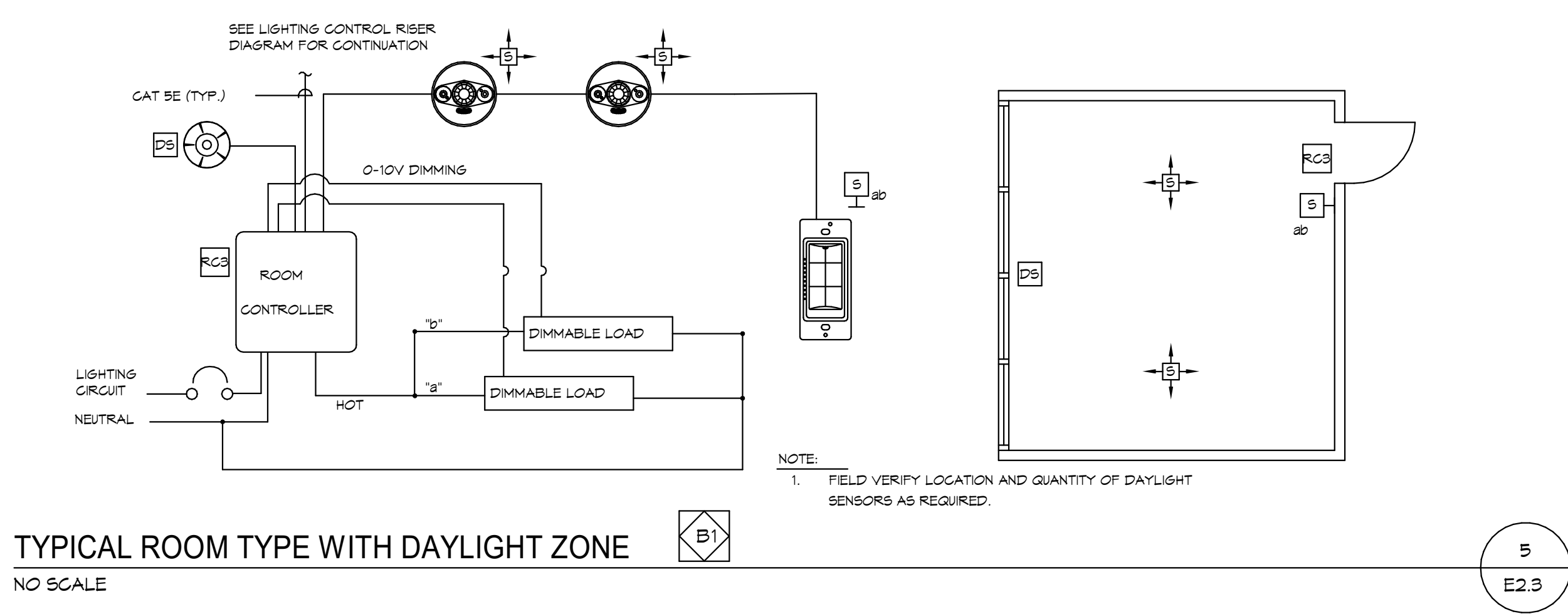
- H[S] WALL MOUNTED MANUAL ON AND OFF SWITCH +48" U.O.N.
- H[S]DT WALL MOUNTED DUAL TECH MOTION SENSOR WITH MANUAL ON AND OFF 48" U.O.N.
- [S] CEILING MOUNTED MOTION SENSOR (DUAL TECHNOLOGY)
- [S] WALL MOUNTED MOTION SENSOR (DUAL TECH) +84" U.O.N.
- [RC1] SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH ONE DIMMING ZONE.
- [RC2] SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH TWO DIMMING ZONES.
- [RC3] SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH THREE DIMMING ZONES.
- [PL] PLUG LOAD CONTROLLER
- [DS] DAYLIGHT SENSOR
- [RI] ISOLATED RELAY INTERFACE
- H[S]45 4 SCENE DIMMING CONTROL STATION
- H[S]K MANUAL ON AND OFF KEY SWITCH
- H[S]p MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'p'
- H[S]dp MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'p' & 'd'
- H[S]abc MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a', 'b', & 'c'
- H[S]dpabc MAIN ENTRY MANUAL DIMMERS FOR ZONE 'p', 'd', & 'c'

GENERAL NOTES

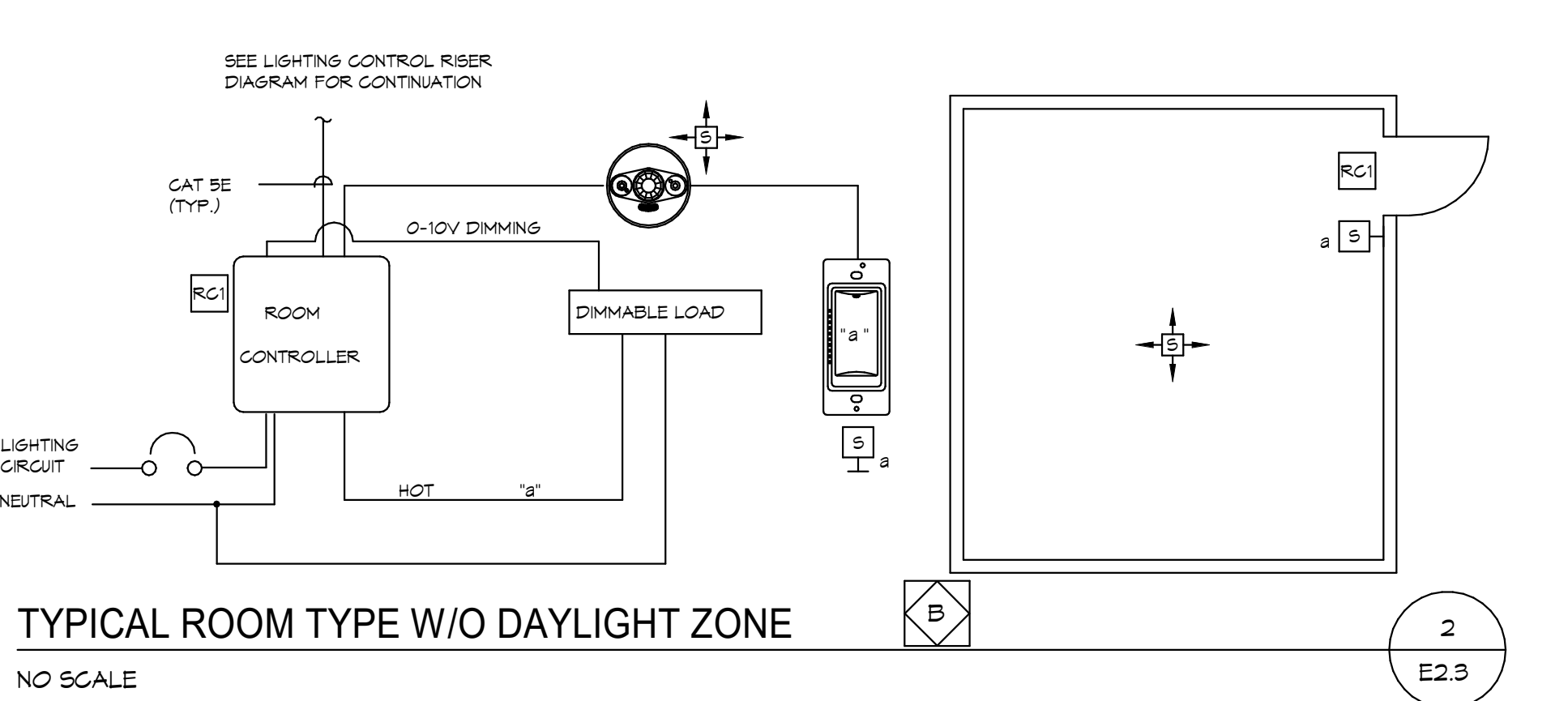
- REFERENCE SPECIFICATION SECTION 260923 DIGITAL LIGHTING CONTROL SYSTEM FOR ADDITIONAL SCOPE OF WORK.
- ITEMS [RC1] [RC2] [RC3] [PL] TO BE WALL MOUNTED ABOVE THE ROOM ENTRY DOOR, ABOVE THE CEILING IN ALL ROOMS WITH T-BAR CEILING.
- ITEMS [RC1] [RC2] [RC3] [PL] TO BE LOCATED WITHIN A 24" X 24" RECESSED ENCLOSURE WITH HINGED LOCKING COVER LOCATED ABOVE THE ROOM ENTRY DOOR IN ALL ROOMS WITH INACCESSIBLE CEILING.
- ALL 0-10V WIRING AND CAT 5E WIRING MAY BE INSTALLED AS OPEN WIRE WHERE ABOVE ACCESSIBLE CEILING. WHERE ABOVE INACCESSIBLE OR EXPOSED CEILING IT SHALL BE INSTALLED IN CONDUIT.
- [S] WHERE CEILING HEIGHT EXCEED 11'-0" OR ROOM HAS EXPOSED [S] CEILING PROVIDE TYPE SENSOR MOUNTED ON WALL IN PLACE OF CEILING SENSOR.
- REFERENCE [E2.2] FOR LIGHTING ON EMERGENCY SYSTEM.
- LIGHTING IN CORRIDORS AND STAIRWELLS SHALL BE REDUCED BY AT LEAST 50% WHEN THE AREA IS UNOCCUPIED.



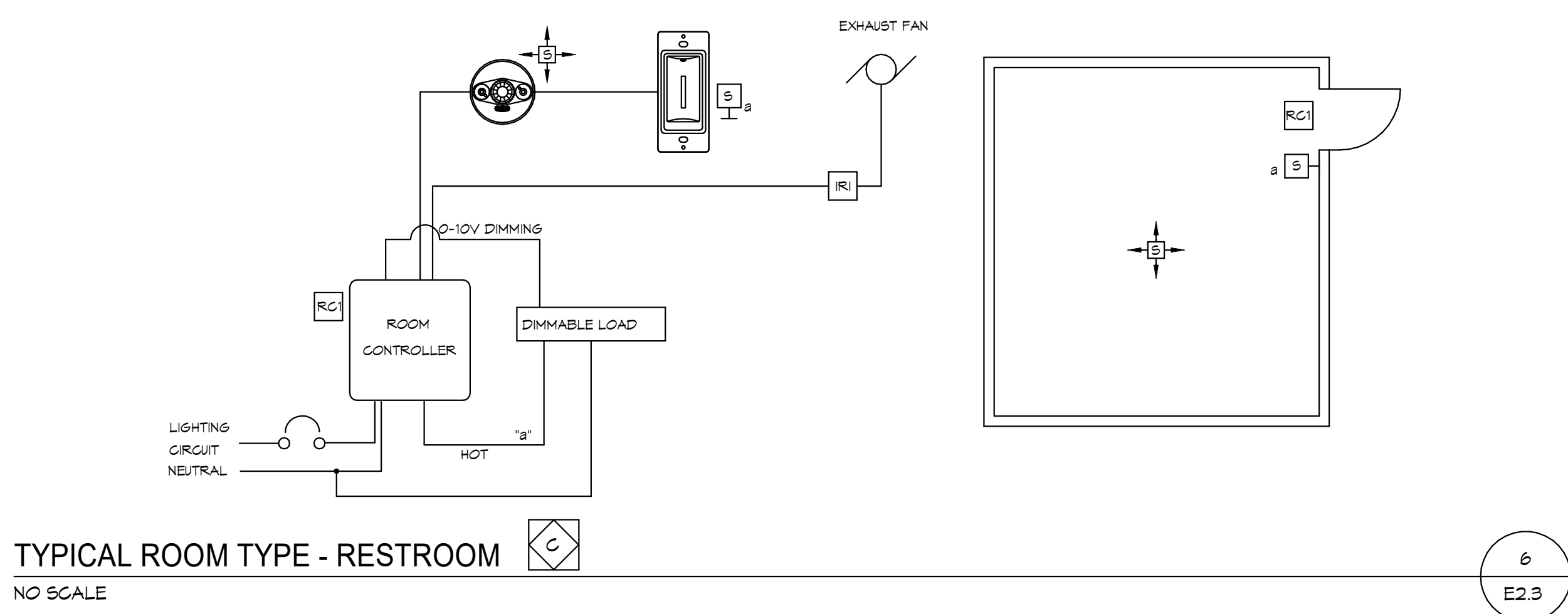
TYPICAL ROOM TYPE - STORAGE/RESTROOM
 NO SCALE



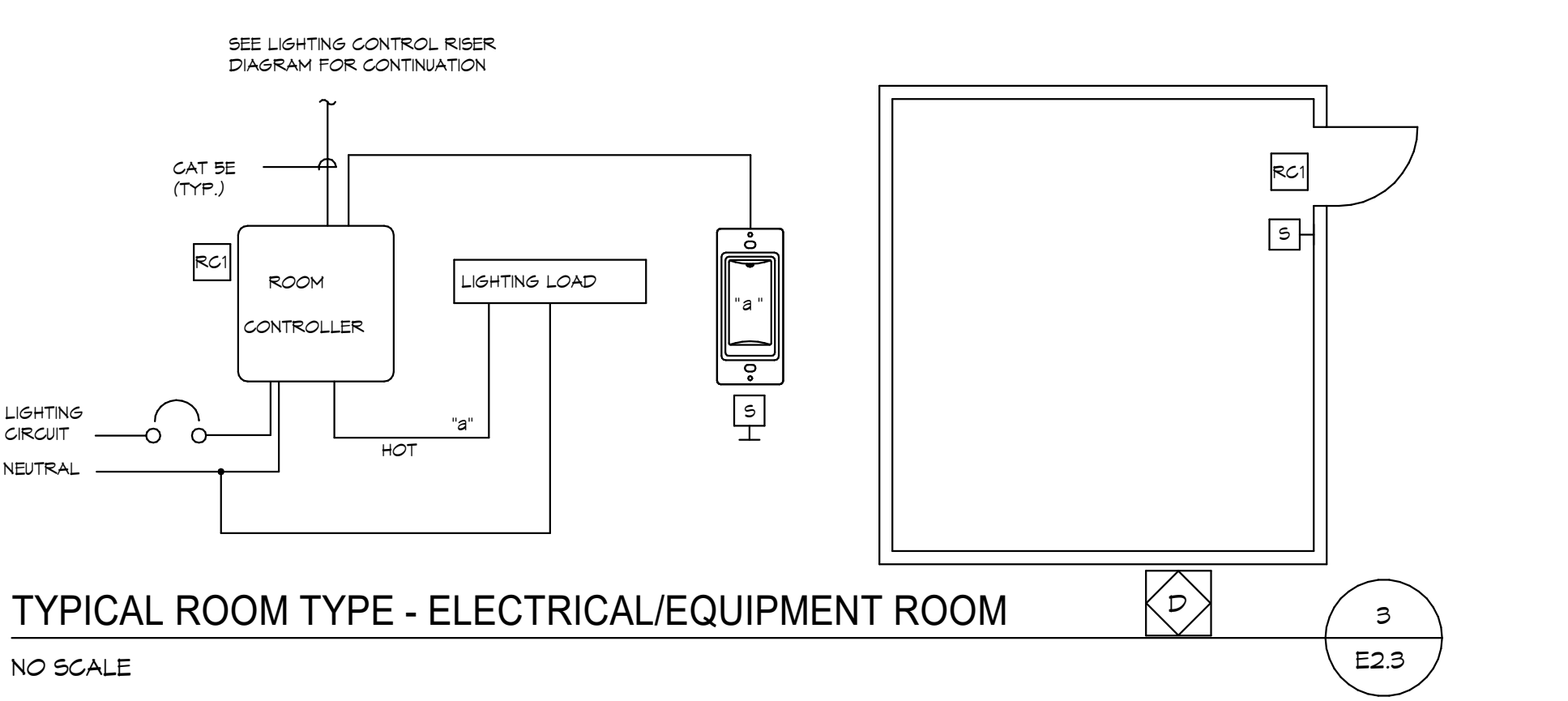
TYPICAL ROOM TYPE WITH DAYLIGHT ZONE
 NO SCALE



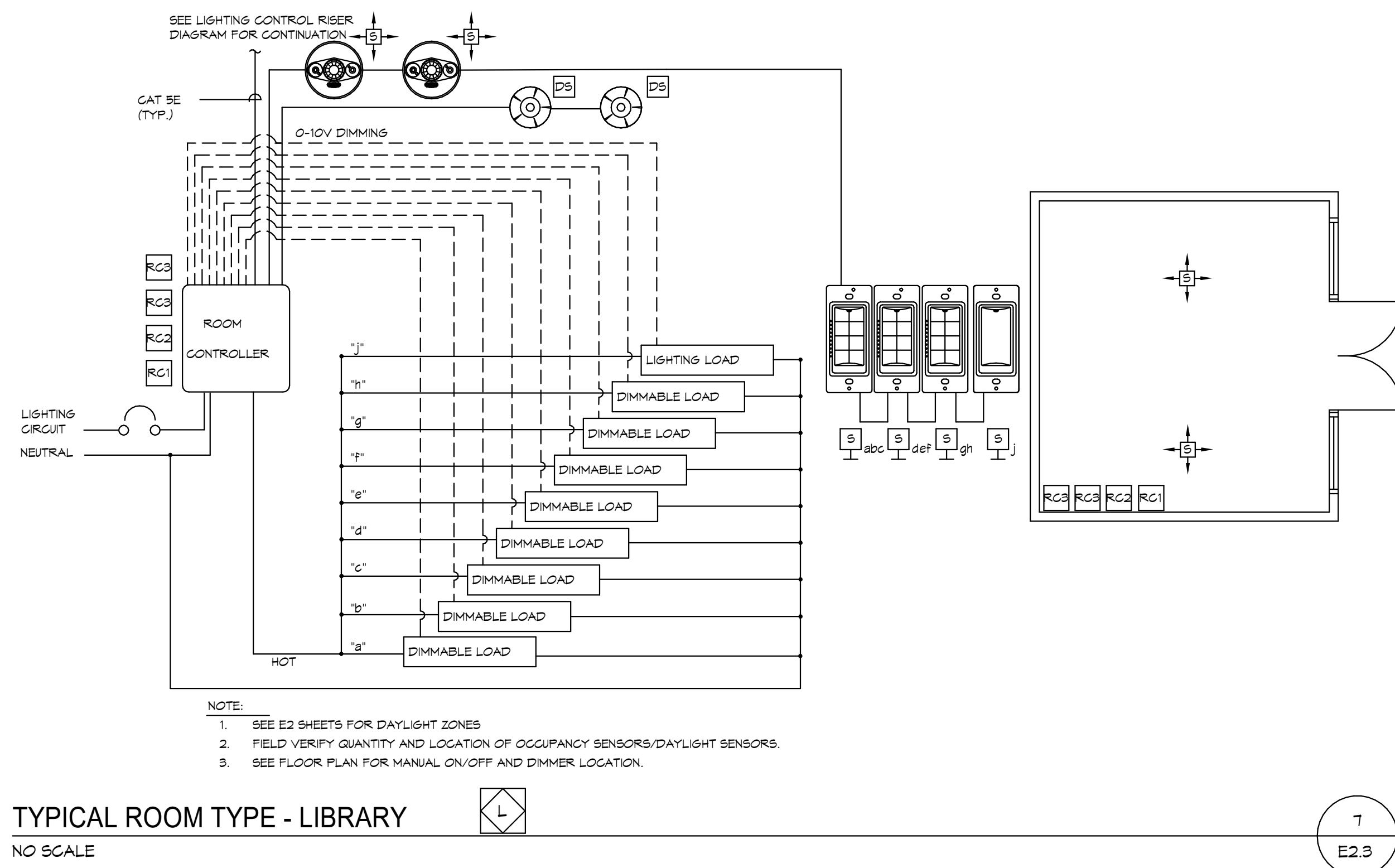
TYPICAL ROOM TYPE W/O DAYLIGHT ZONE
 NO SCALE



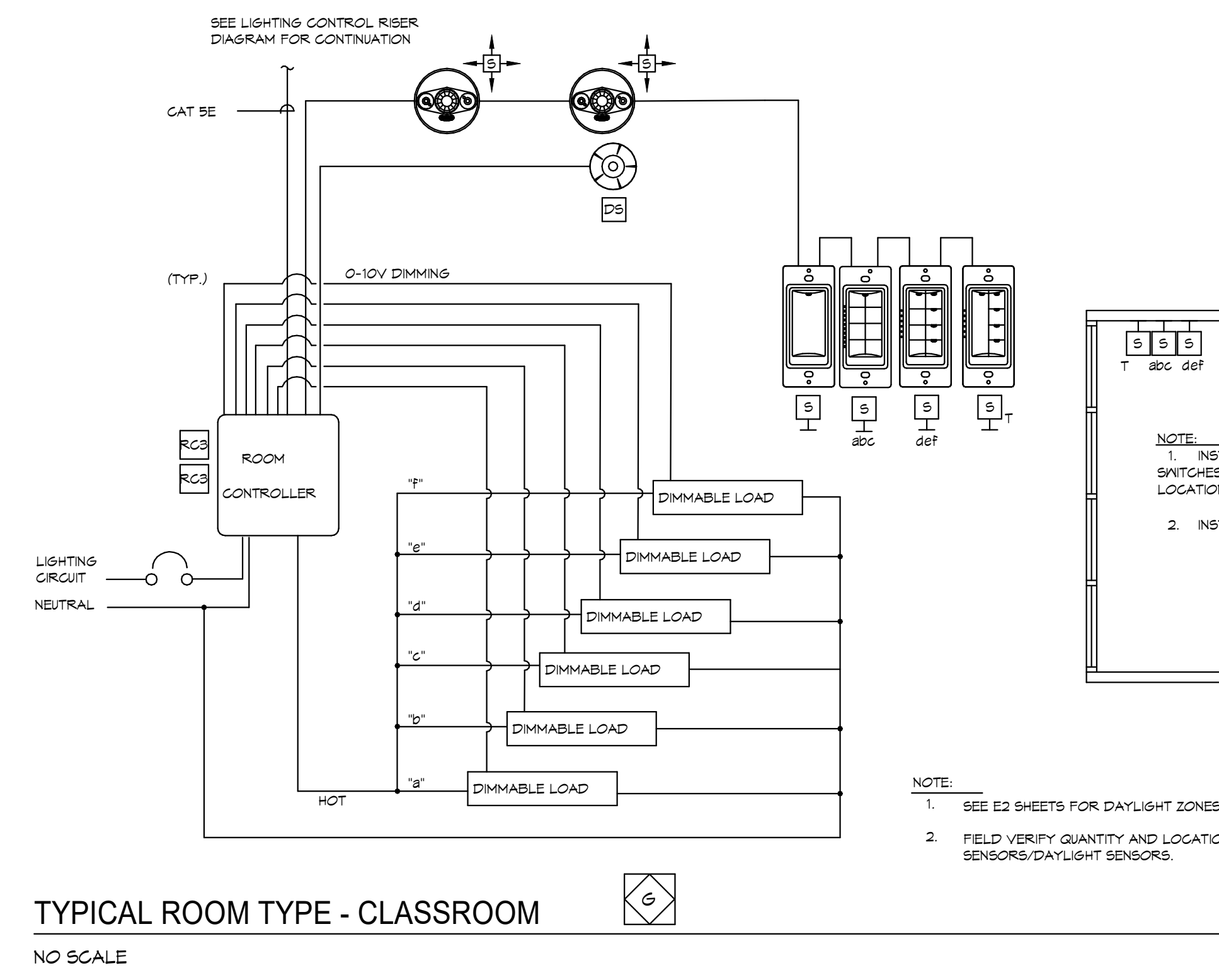
TYPICAL ROOM TYPE - RESTROOM
 NO SCALE



TYPICAL ROOM TYPE - ELECTRICAL/EQUIPMENT ROOM
 NO SCALE

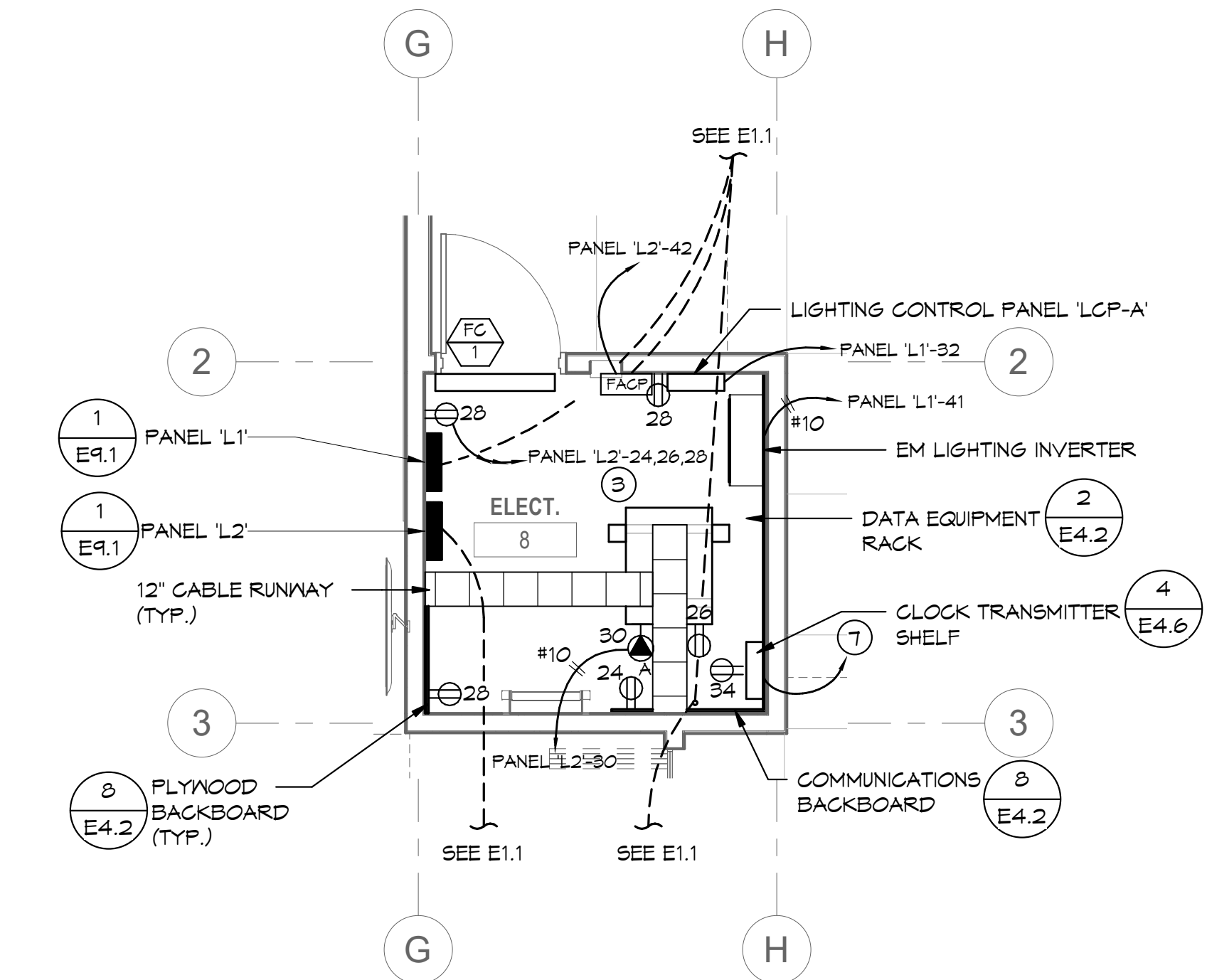


TYPICAL ROOM TYPE - LIBRARY
 NO SCALE



TYPICAL ROOM TYPE - CLASSROOM
 NO SCALE

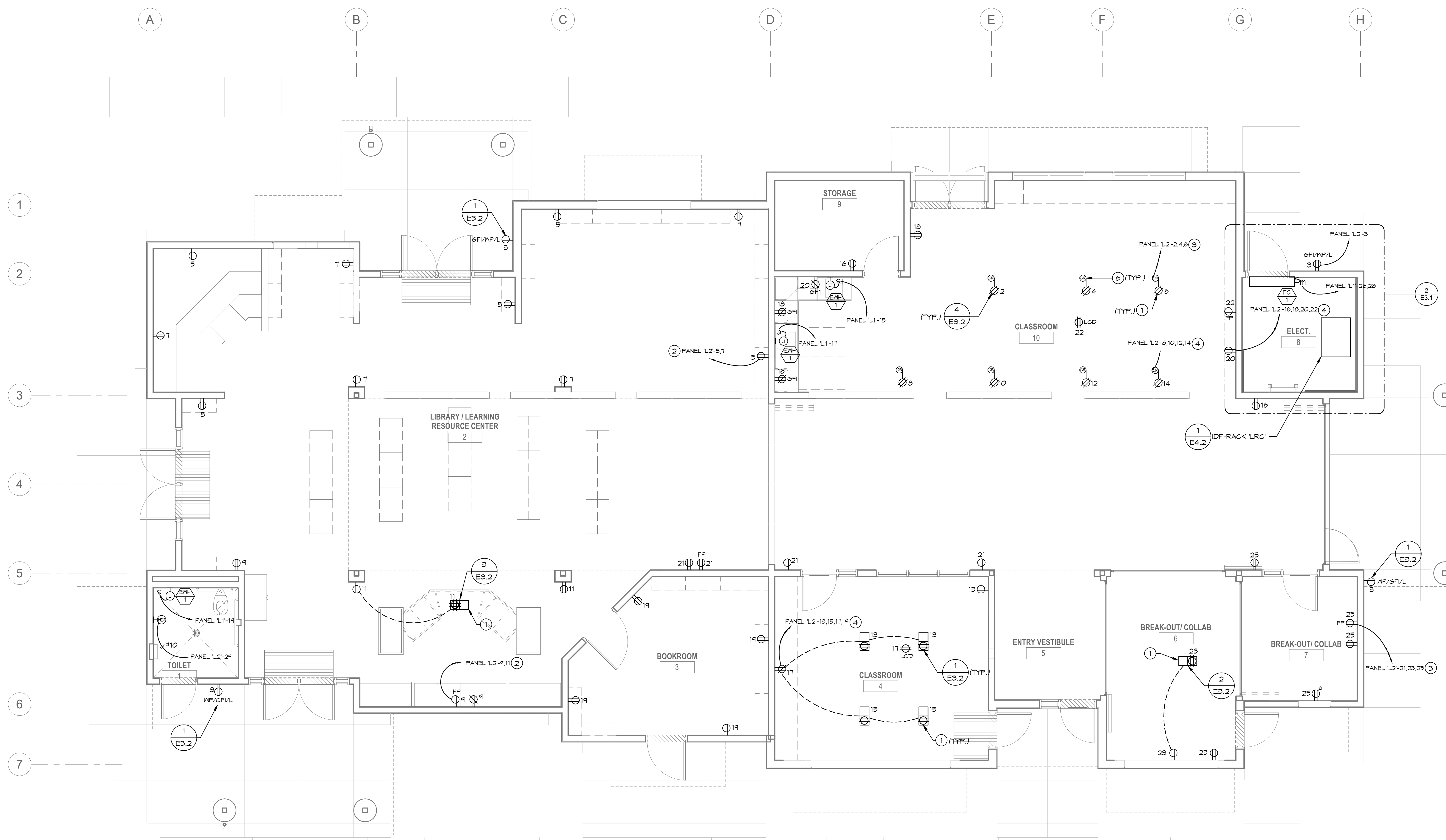
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LEVEL 1 - ENLARGED ROOM PLAN | 1/4" = 1'-0" | 2 |

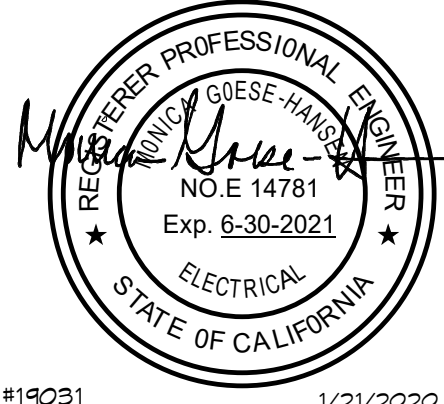
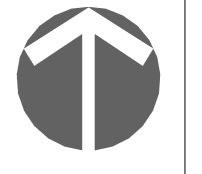
- GENERAL NOTES:**
- REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED POWER DEVICES WHERE INDICATED AT MOUNTING HEIGHTS OTHER THAN 18".
 - REFERENCE SHEET E6 SERIES SHEETS FOR MECHANICAL EQUIPMENT SCHEDULE.
 - REFERENCE E3 AND E8 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
 - NUMBERS ADJACENT TO EACH POWER DEVICE INDICATES THE CIRCUIT NUMBER TO WHICH THE DEVICE IS TO BE CONNECTED.
 - CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
 - PROVIDE MINIMUM 3/4" CONDUIT AND #12 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH POWER DEVICE TO THEIR INDICATED CIRCUIT (U.O.N.).
 - FIELD VERIFY EXACT ROUTING LOCATION FOR CONCEALED CONDUITS AND RECEPTACLES PRIOR TO ROUGH-IN.

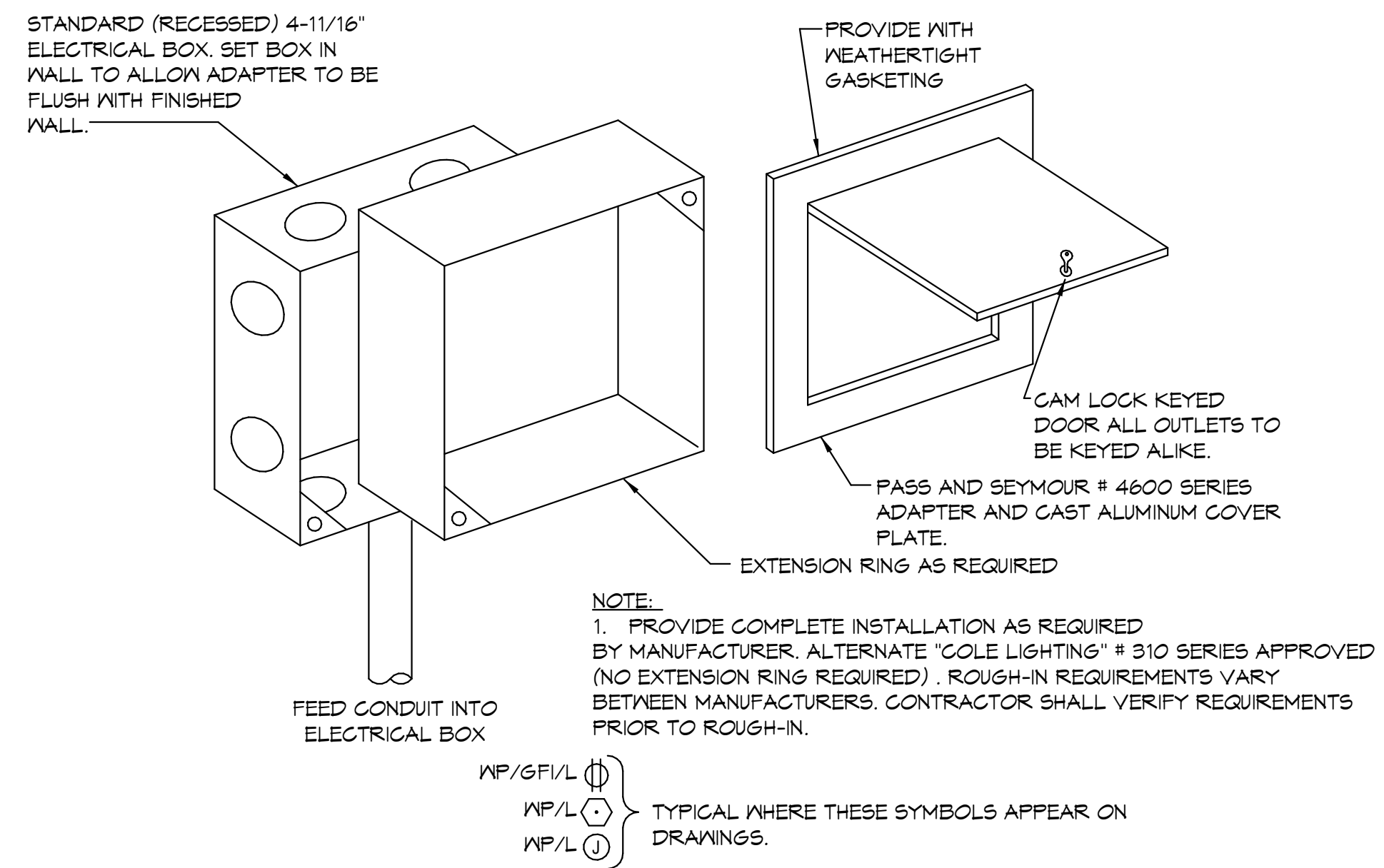
- KEY NOTES:**
- FIELD VERIFY EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
 - 2 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 3/4".
 - 3 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 3/4".
 - 4 #12 (HOT), 2 #10 (NEUTRAL), 1 #12 (GND), 3/4".
 - NOT USED.
 - BLACK CEILING MOUNTED CORD REEL WITH TRIPLE TAP OUTLET AS MANUFACTURED BY HUBBELL HBLG40123TT.
 - PROVIDE 1-1/4" RIGID CONDUIT TO ROOF FOR CLOCK TRANSMITTER GPS RECEIVER AND ANTENNA. EXTEND CONDUIT A MINIMUM OF 36" ABOVE ROOF LINE. PROVIDE WEATHERHEAD FOR CONDUIT.



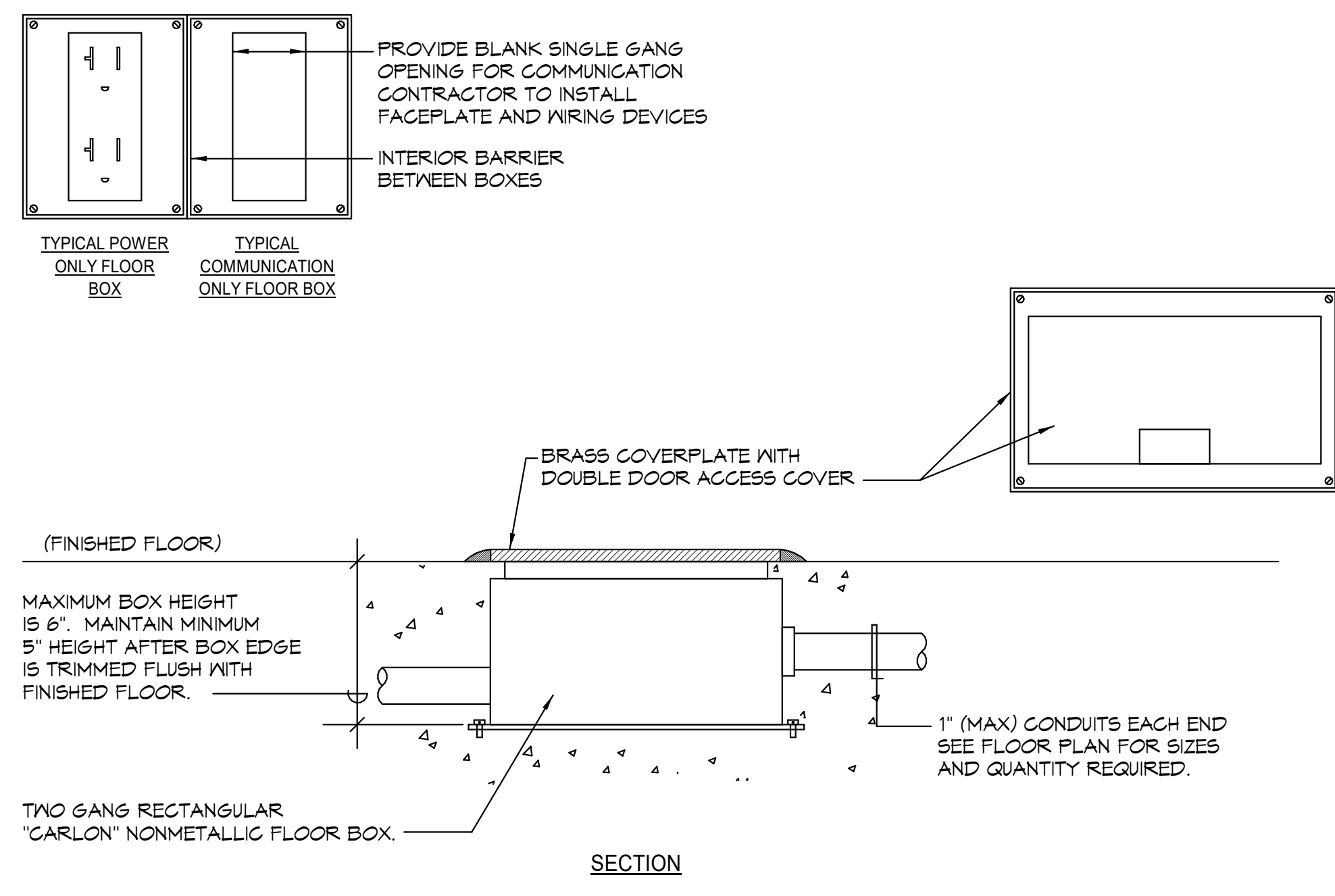
LEVEL 1 FLOOR PLAN - POWER | 1/4" = 1'-0" | 1 |

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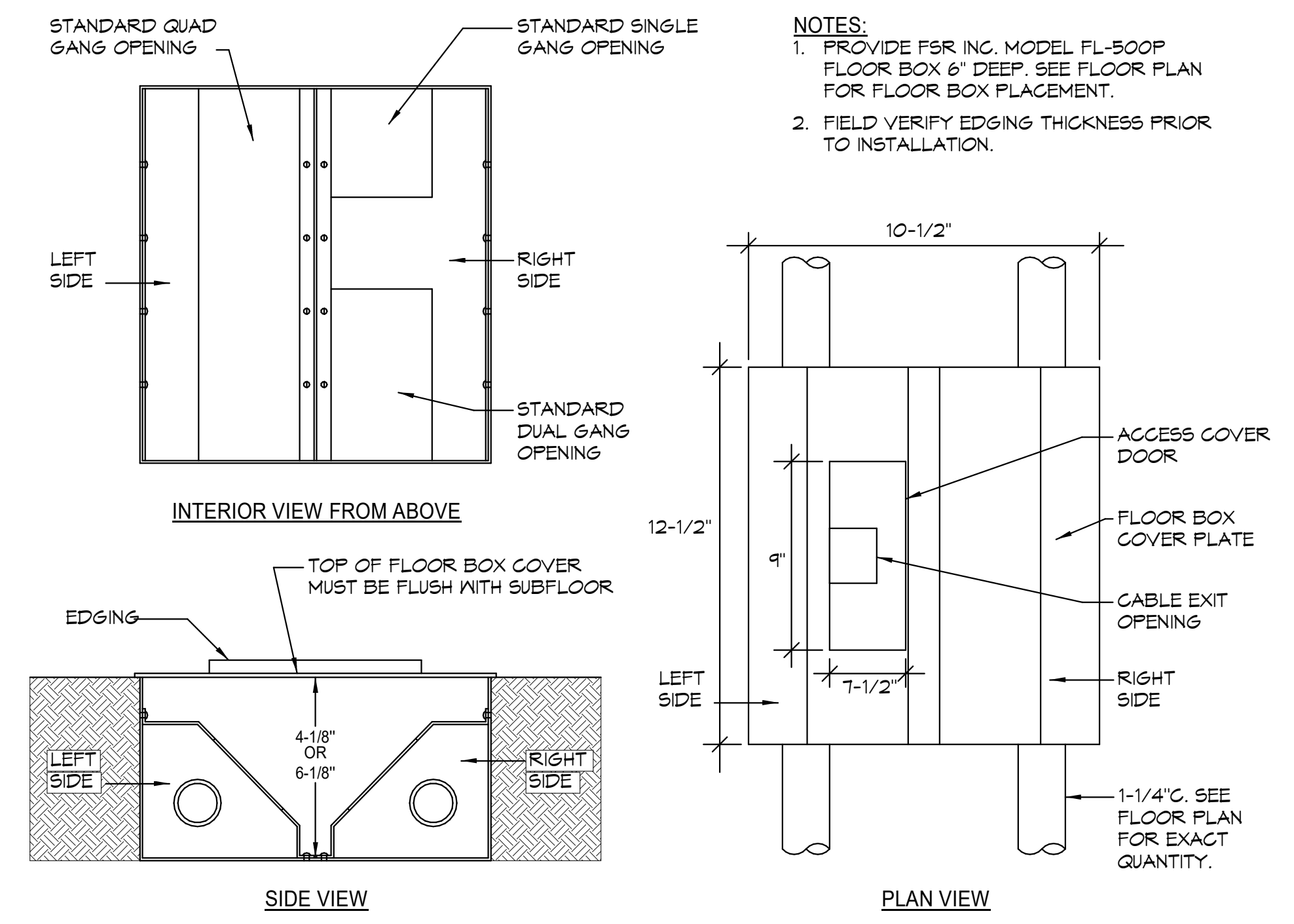




TYPICAL WEATHERPROOF/LOCKING RECEPTACLE COVER
NO SCALE



TYPICAL TWO GANG FLOOR BOX INSTALLATION
NO SCALE



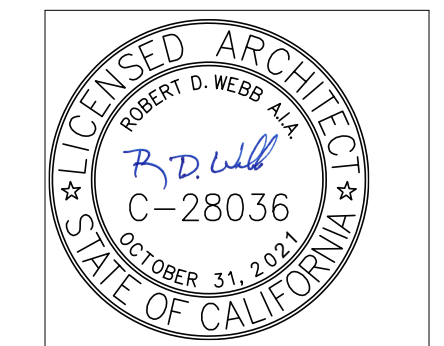
TYPICAL FLOOR BOX
NO SCALE

NOTES:
1. PROVIDE FSR, INC. MODEL FL-500P FLOOR BOX 6\"/>

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-118742 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02.05.20

Date	Revision	Consultant	Engineer

studiorwc
ARCHITECTURE + ENGINEERING
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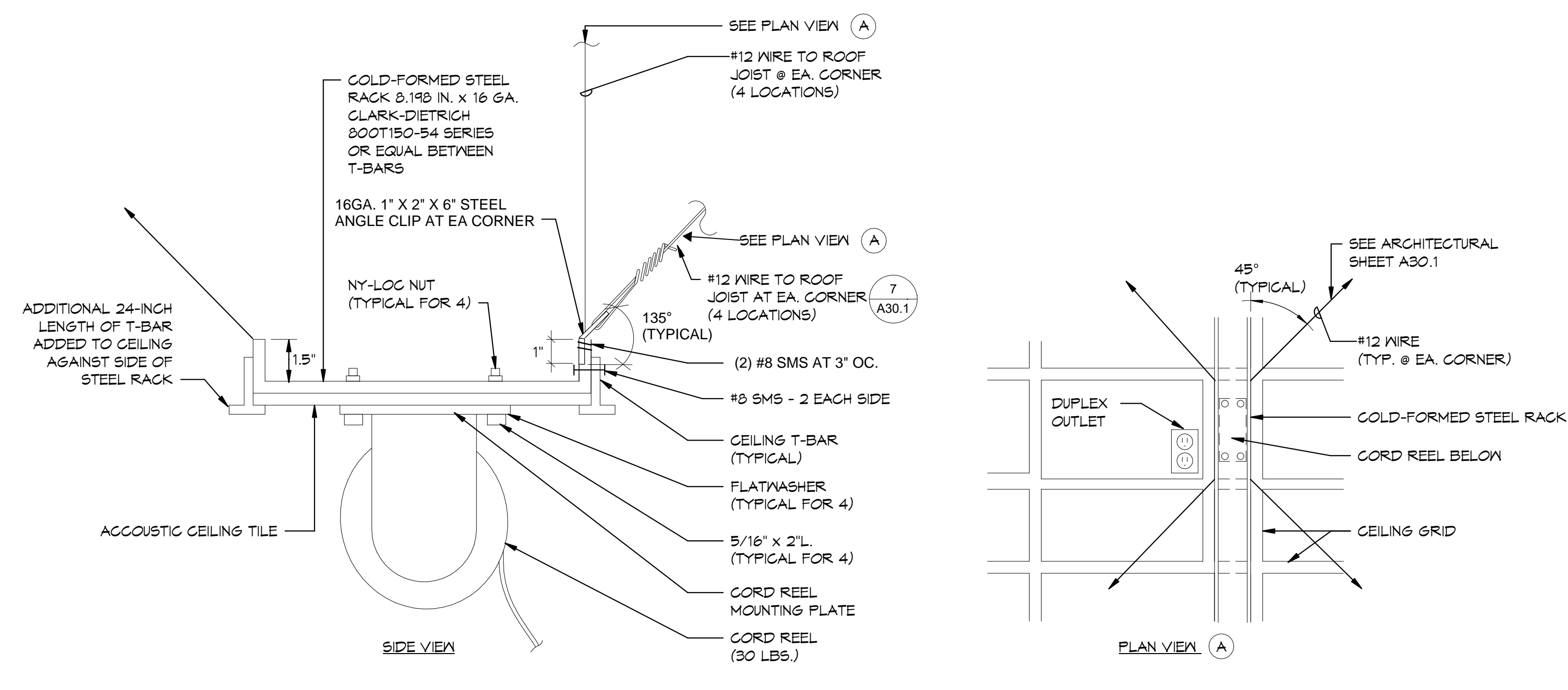


PROSPECT AVENUE ELEMENTARY SCHOOL
LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

POWER DETAILS

Drawn:
Author:
Checked:
Checker:
Date:
AUGUST 27, 2019
Job:
SSD-PA-03

E3.2



CORD REEL ANCHORAGE DETAIL
NO SCALE

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1/21/2020 12:31:43 PM

BACKBOX AND RING LEGEND	
TYPE	DESCRIPTION
B1	4 11/16" square 2 1/8" deep box with single gang ring.
B2	4 11/16" square 2 1/8" deep box with dual gang ring.
B3	4" square 1 1/2" deep box with single gang ring.
B4	Single gang box, 2 1/8" deep.
B5	4-11/16" Square 3" deep box with dual gang ring.

C1	Provided by 21 10 00 contractor.
C2	Provided by 21 21 00 contractor.
C3	Provided by 21 20 00 contractor.
C4	Provided by 21 51 16 contractor.
C5	Provided by 28 13 00 contractor.
C6	Provided by 28 23 00 contractor.
C7	Provided by xx xx xx contractor.

FACEPLATE LEGEND	
TYPE	DESCRIPTION
AR	As required to accommodate the number of ports designated.
BF	Blank faceplate.

C1	Provided by 21 10 00 contractor.
C2	Provided by 21 21 00 contractor.
C3	Provided by 21 20 00 contractor.
C4	Provided by 21 51 16 contractor.
C5	Provided by 28 13 00 contractor.
C6	Provided by 28 23 00 contractor.
C7	Provided by xx xx xx contractor.

CONDUIT / RACEWAY LEGEND	
TYPE	DESCRIPTION
3/4"-5'	3/4" conduit stubbed from box into accessible ceiling space, unless detailed otherwise on drawings.
1"-5'	1" conduit stubbed from box into accessible ceiling space, unless detailed otherwise on drawings.
1 1/4"-5'	1 1/4" conduit stubbed from box into accessible ceiling space, unless detailed otherwise on drawings.

TECHNOLOGY SYMBOL LEGEND				
SYMBOL	DESCRIPTION	BACKBOX & RING	FACE PLATE	CONDUIT / RACEWAY
	Single port data outlet, +18" A.F.F. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-5'
	Dual port data outlet, +18" A.F.F. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-5'
	Triple port data outlet, +18" A.F.F. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-5'
	Quad port data outlet, +18" A.F.F. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-5'
	Single port data outlet with single port voice outlet, +18" A.F.F. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-5'
	Local Origination with Dual Port Data, +18" AFF (U.O.N.)	Type 'B1' (D) Type 'B5' (LO) Side by Side	Type 'AR' (D) Type 'C3' (LO)	Type '1-5' (D) Type '1 1/4-5' (LO)
	Same device as required on legend, mounted +6" above backsplash (U.O.N.)	Same as required for device indicated on legend.	Same as required for device indicated on legend.	Same as required for device indicated on legend.
	Same device as required on legend, except surface mounted box.	Same as required for device indicated on legend.	Same as required for device indicated on legend.	Same as required for device indicated on legend.
	Same device as required on legend, except in floor box.	Floorbox per E3 series drawings.	Same as required for device indicated on legend.	Same as required for device indicated on legend.
	Quad port data outlet for Wireless Access Point and AV Equipment Mounted in Ceiling Grid Hangar.	Type 'B1'	Type 'C1'	Type '1-5'
	Quad port data outlet for Wireless Access Point and AV Equipment Mounted in Wall AV Enclosure @ 8'-0" AFF.	Type 'B1'	Type 'C1'	Type '1-5'
	Ceiling Mounted Projector Location.	Type 'B1'	Type 'C3'	Type '1-5'
	Ceiling Mounted Audio-Visual System Speaker.	Type 'C3'	Type 'C3'	Type '1-5'
	Dual port data outlet at wireless access point location mounted in accessible ceiling (U.O.N.)	See detail E4.4	Type 'C1'	Not required in accessible ceiling.
	Dual port data outlet at wireless access point wall mounted @ 8'-0" AFF (U.O.N.)	See detail E4.4	Type 'C1'	Type '1-5'
	Dual port data outlet for exterior WAP Location @ 10'-0" AFF (U.O.N.) WP = Weatherproof	See Details	See Details	Type '1-5'
	Dual port data outlet for Flat Panel Location with Audio-Visual Connections. Height per details.	Type 'B1' (Data) Type 'B2' (A/V)	Type 'C1' (Data) Type 'C3' (A/V)	Type '1-5' (Data) Type '1 1/4-5' (A/V)
	Ceiling Mounted Audio-Visual Enclosure.	Not required in accessible ceiling.	Type 'C3'	Not required in accessible ceiling.

COMMUNICATION / SECURITY SYMBOL LEGEND				
SYMBOL	DESCRIPTION	BACKBOX & RING	FACE PLATE	CONDUIT / RACEWAY
	Telephone outlet with staff type phone, +18" A.F.F. (U.O.N.) (N indicates wall mount at +48" A.F.F.) Height per detail 1/E1.0	Type 'B3'	Type 'C1'	Type '3/4-5'
	Telephone outlet with classroom type phone, +18" A.F.F. (U.O.N.) (N indicates wall mount at +48" A.F.F.) Height per detail 1/E1.0	Type 'B3'	Type 'C1'	Type '3/4-5'
	IP-Based Intercom Speaker recessed in ceiling.	Type 'C1'	Type 'C1'	Type '3/4-5'
	IP-Based Intercom Speaker, recessed in wall, +8'-0" A.F.F. (U.O.N.)	Type 'C1', installed by electrical contractor.	Type 'C1'	Type '3/4-5'
	IP-Based Intercom Speaker, surface mount on interior wall, +8'-0" A.F.F. (U.O.N.)	Type 'B3'	Type 'C1'	Type '3/4-5'
	IP-Based Intercom Horn recessed in exterior wall @ +8'-0" AFF (U.O.N.)	Type 'C1', installed by electrical contractor.	Type 'C1'	Type '3/4-5'
	Volume control for intercom system, mounted at +48" A.F.F. (U.O.N.) Height per detail 1/E1.0	Type 'B3'	Type 'C1'	Type '3/4-5'
	Clock wall mounted at, +8'-0" A.F.F. (U.O.N.) (MG indicates wireguard)	Not required.	Not required.	Not required.
	Security keypad wall mounted at, +48" A.F.F. (U.O.N.) Height per detail 1/E1.0	Type 'B2'	Type 'C5'	Type '3/4-5'
	Security motion sensor ceiling mounted.	Type 'B3'	Type 'C5'	Type '3/4-5'
	Security motion sensor wall mounted at 6" below ceiling, or +10'-0" A.F.F. (U.O.N. whichever is lower).	Type 'B3'	Type 'C5'	Type '3/4-5'
	Security door contact.	Type 'B3'	Type 'C5'	Type '3/4-5'
	Surveillance camera, exterior type. Height as shown on floor plans	Type 'B1'	Type 'C6' (Weatherlight)	Type '1-5'
	Surveillance camera, interior type mounted 6" below ceiling or +10'-0" whichever is lower (U.O.N.)	Type 'B1'	Type 'C6'	Type '1-5'
	Surveillance camera, interior type mounted in ceiling.	Type 'B2'	Type 'C6'	Type '1-5'
	J-Box for Future Low-Voltage Devices @ 18" AFF (U.O.N.)	Type 'B1'	Blank Plate Color to Match	Type '1-5'
	Conduit sleeve through wall, above accessible ceiling.	Not required.	Not required.	(1) 3" C, for open low voltage wiring.
	Conduit sleeve through wall, above accessible ceiling.	Not required.	Not required.	(1) Conduit for open low voltage wiring, size as indicated.
	Conduit sleeve through wall, above accessible ceiling.	Not required.	Not required.	Multiple Conduits for open low voltage wiring, size and quantity as indicated.
	Conduit stubbed above accessible ceiling.	Not required.	Not required.	Conduit for open low voltage wiring. Refer to legend for size.
	Conduit stubbed above accessible ceiling.	Not required.	Not required.	(1) conduit for open low voltage wiring size as indicated.
	Conduit stubbed above accessible ceiling.	Not required.	Not required.	Conduit for open low voltage wiring, size and quantity as indicated.
	Push button for door release height per floor plans.	Type 'B1'	Type 'C1'	Type '3/4-5'
	Door release horn sounder @ 46" A.F.F.	Type 'B1'	By door hardware installer	Type '3/4-5' to J-box at door.

- GENERAL NOTES:
- ALL CONDUITS WHICH ARE REQUIRED AS A PART OF SYSTEMS SPECIFIED FOR COMMUNICATIONS, TELEPHONE, INTERCOM, CLOCK FIRE ALARM, SECURITY, SOUND SYSTEMS, DATA NETWORKING, OR AUDIO-VISUAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
 - THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT REQUIREMENTS WITH EACH SYSTEM SUPPLIER PRIOR TO BID TO DETERMINE SPECIAL CONDUIT SYSTEM REQUIREMENTS.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES FOR ALL OPEN CABLE INSTALLATIONS THROUGH RATED WALLS, BLOCK WALLS AND WHERE SHOWN ON THE DRAWINGS. PROVIDE CONDUIT FROM EACH BUILDING MAIN TERMINATION CABINET OR BACKBOARD TO THE NEAREST ACCESSIBLE CEILING FOR ACCESS INTO ALL ELECTRICAL OR COMMUNICATIONS ROOMS.
 - ALL CONDUIT, BOXES, AND RINGS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
 - ALL BLANK PLATES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. (UNLESS OTHERWISE NOTED)
 - ALL CONDUITS SHALL BE FURNISHED WITH PULL STRINGS BY ELECTRICAL CONTRACTOR. COMMUNICATION CONTRACTOR TO PROVIDE POLYARIMIC PULL TAPE WITH NEW CABLEING INTO ALL CONDUITS BETWEEN BUILDINGS. SEE SPECIFICATIONS FOR REQUIREMENTS.
 - CONTRACTOR TO REVIEW ARCHITECTURAL CEILING PLANS TO DETERMINE LOCATIONS OF ACCESSIBLE CEILING PRIOR TO BID.
 - (211000) NUMBERS INDICATE MATCHING SPECIFICATION SECTION RESPONSIBLE FOR THIS WORK.
 - IN ADDITION TO THE ABOVE REQUIREMENTS, THE FOLLOWING REQUIREMENTS SHALL APPLY TO ALL DATA, VOICE, PAGING, AUDIO-VISUAL, SECURITY AND CLOCK CONDUITS:
 - FLEXIBLE METAL CONDUIT MAY BE USED ONLY WHERE REQUIRED AT BUILDING SEISMIC AND/OR EXPANSION JOINTS.
 - ALL UNDERGROUND CONDUITS SHALL BE PROVIDED WITH MINIMUM 24" RADIUS ELBOWS.
 - NO LENGTH OF CONDUIT SHALL BE INSTALLED TO EXCEED 150 FEET BETWEEN PULL BOXES, OR POINTS OF CONNECTION, UNLESS WHERE SPECIFICALLY DETAILED ON THE DRAWINGS.
 - NO LENGTH OF CONDUIT SHALL BE INSTALLED TO EXCEED TWO 90 DEGREE BENDS BETWEEN PULL BOXES, OR POINTS OF CONNECTION, UNLESS WHERE SPECIFICALLY DETAILED ON THE DRAWINGS.

- KEY NOTES:
- JUNCTION BOXES FOR DATA AND AUDIO-VISUAL CONNECTIONS MUST BE SEPARATE. AUDIO-VISUAL JUNCTION BOX OR BOXES SHALL BE FURNISHED AS SHOWN IN THE DRAWING DETAILS.
 - DATA CABLEING AND FACEPLATE FOR SYMBOL FURNISHED AND INSTALLED BY 211000 CONTRACTOR.
 - IP ADDRESSABLE SPEAKER BACKBOX AND DEVICE TO BE FURNISHED AND INSTALLED BY 211000 CONTRACTOR.
 - IP ADDRESSABLE SPEAKER OR HORN BACKBOX AND DEVICE TO BE FURNISHED BY 211000 CONTRACTOR. BACKBOX TO BE INSTALLED BY THE DIVISION 26 CONTRACTOR.
 - IP DIGITAL CAMERA LOCATIONS SHALL BE FURNISHED WITH (2) DATA CABLES TERMINATED ON SURFACE MOUNT JACK INSTALLED IN JUNCTION BOX. DATA CONNECTIONS FURNISHED AND INSTALLED BY 211000 CONTRACTOR. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. FUTURE CAMERAS FURNISHED AND INSTALLED BY THE DISTRICT.
 - THE DOOR RELEASE HORN BEING USED FOR AUDIBLE WARNING WHEN DOOR IS OPENED WITHOUT PERMISSION SHALL BE FURNISHED AND INSTALLED BY THE DOOR HARDWARE INSTALLER. 21 10 00 CONTRACTOR SHALL PROVIDE CABLE ONLY FROM HORN LOCATION TO DOOR HARDWARE J-BOX.
 - DOOR RELEASE PUSH BUTTON SHALL BE PLACED IN OPEN LEG SPACE OF CONTROL DESK IN LIBRARY. MOUNT ON UNDERSIDE OF TOP SURFACE WITHIN REACH. MOUNT J-BOX DIRECTLY TO BUILT-IN DESK.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-118742 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02.05.20

Date	Revision

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STATE OF CALIFORNIA
C-28036
EXPIRES 31.31.2024

PROSPECT AVENUE ELEMENTARY
SCHOOL
LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

COMMUNICATION
LEGEND & NOTES

Drawn:
Author:
Checked:
Checker:
Date:
AUGUST 27, 2019
Job:
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E4.0

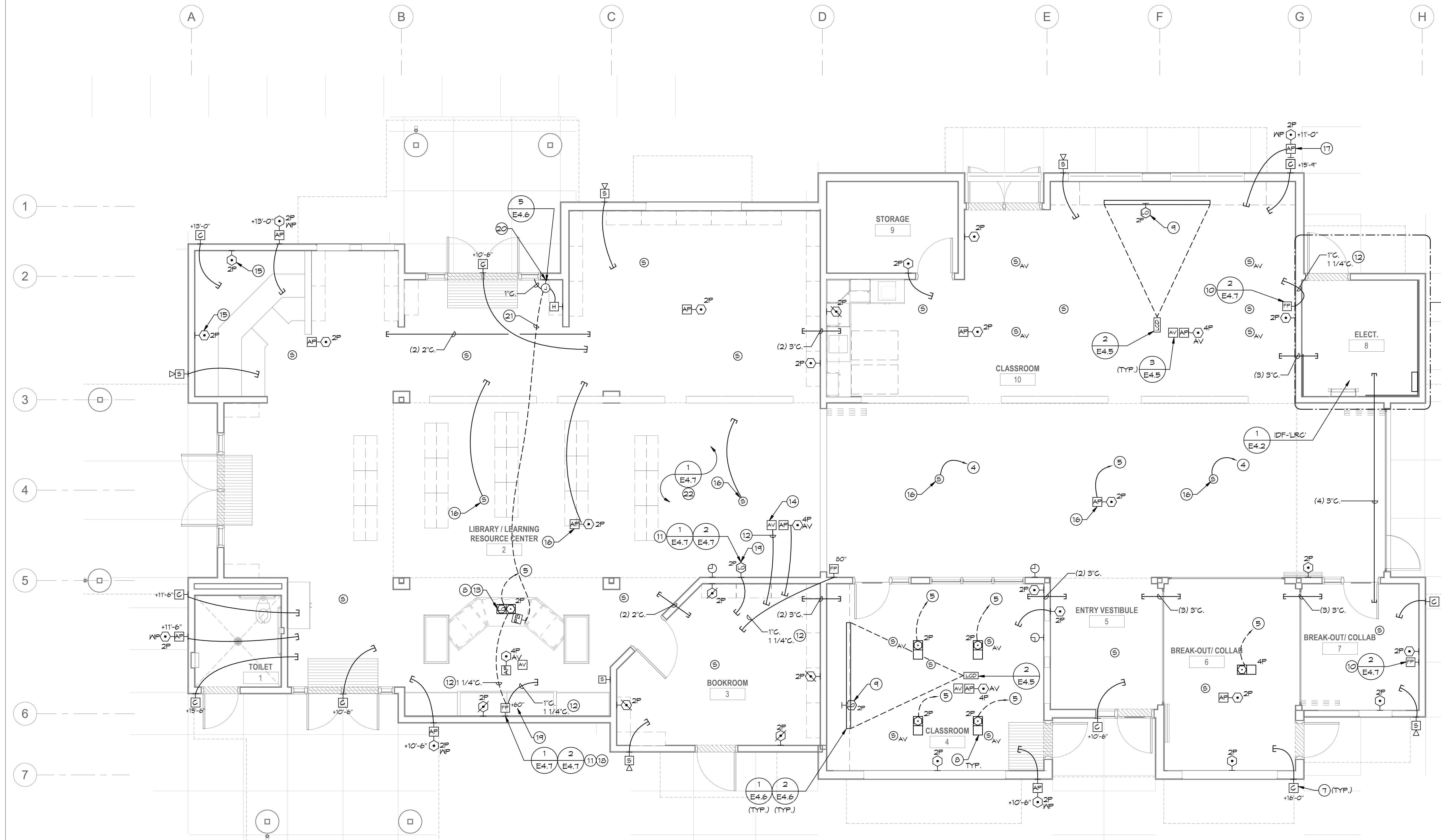
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Professional Engineer
GISELE HARRIS
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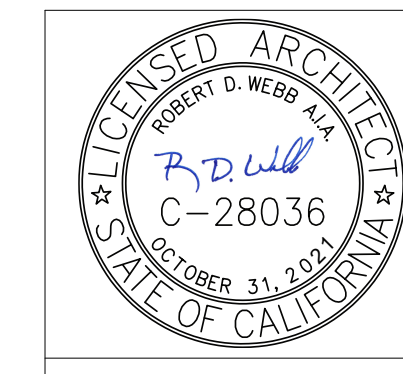
- GENERAL NOTES:**
1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
 2. REFERENCE E4 AND E8 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
 3. REFERENCE E4 SERIES SHEETS FOR TYPICAL COMMUNICATION SYSTEMS RISER DIAGRAM.
 4. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND ROUTINGS.
 5. LOCATION OF PROJECTOR AND OTHER AUDIO-VISUAL EQUIPMENT IS DIAGRAMMATICAL, EXACT LOCATION OF EQUIPMENT TO BE FIELD VERIFIED PRIOR TO INSTALLATION. LOCATION OF PROJECTOR AND PROJECTOR MOUNT TO BE COORDINATED WITH LOCATION OF SCREEN.
 6. REFER TO AUDIO-VISUAL SYSTEM DIAGRAMS FOR ADDITIONAL REQUIREMENTS FOR JUNCTION BOX LOCATIONS, TYPES AND SIZES.

- KEY NOTES:**
- 1 3/4" C. TO BUILDING COMMUNICATIONS BACKBOARD.
 - 2 1" C. TO BUILDING COMMUNICATIONS BACKBOARD.
 - 3 1 1/4" C. TO BUILDING COMMUNICATIONS BACKBOARD.
 - 4 3/4" C. TO BUILDING 'IDF' LOCATION.
 - 5 1" C. TO BUILDING 'IDF' LOCATION.
 - 6 1 1/4" C. TO BUILDING 'IDF' LOCATION.
 - 7 FUTURE CAMERA LOCATION, FURNISH JUNCTION BOXES WITH WEATHERPROOF BLANK COVER WITH GASKETS (BY 21 TO OO CONTRACTOR).
 - 8 SEE SHEET E3.1 FOR FLOOR BOX TYPE AND REQUIREMENTS.
 - 9 PROVIDE 2-PORT DATA OUTLET AND AUDIO-VISUAL INPUT WALL PLATE ON TEACHING WALL @26" AFF. COORDINATE LOCATION WITH POWER OUTLET. DATA AND AUDIO-VISUAL WALLPLATES SHALL BE FURNISHED WITH SEPARATE JUNCTION BOXES PER LEGEND. COORDINATE WITH DISTRICT PROJECT MANAGER.
 - 10 FUTURE FLAT PANEL LOCATION. SEE DETAIL DRAWINGS FOR HEIGHT OF DATA OUTLET, AV J-BOX POWER AND BACKING IN WALL. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. NO FLAT PANEL MOUNT IS REQUIRED.
 - 11 LARGE FLAT PANEL AV SYSTEM IN LIBRARY: SYSTEM SHALL BE FURNISHED WITH SOUND BAR FOR AUDIO SUPPORT AND MICRO PC COMPUTER FOR NETWORK ACCESS OPERATION. SEE DRAWING DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - 12 PROVIDE 1 1/4" CONDUIT FOR CLASSROOM AUDIO-VISUAL SYSTEM CABLING. STUB CONDUIT INTO ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.
 - 13 PROVIDE 4-PORT DATA OUTLET AND AUDIO-VISUAL INPUT WALLPLATE AT RESOURCE DESK IN FLOOR BOX. COORDINATE LOCATION WITH POWER, DATA AND AUDIO-VISUAL WALLPLATES SHALL BE FURNISHED WITH SEPARATE J-BOXES PER LEGEND.
 - 14 AUDIO-VISUAL ENCLOSURE FOR FLAT PANEL AV SYSTEM INSTALLED IN ACCESSIBLE CEILING CLOUD. COORDINATE EXACT LOCATION WITH OTHER TRADES AND ARCHITECTURAL DRAWINGS.
 - 15 DATA OUTLET @ 18" ABOVE TOP TIER OF SEATING RISER.
 - 16 DEVICE LOCATED IN ACCESSIBLE CEILING ARCHITECTURAL CLOUD. COORDINATE EXACT PLACEMENT WITH OTHER TRADES.
 - 17 MOUNT W/P DIRECTLY BELOW CAMERA AT HEIGHT SHOWN.
 - 18 INSTALL FLAT PANEL MOUNT @46" AFF TO CENTER OF MOUNT. MOUNT MUST BE CENTERED BETWEEN TALL CABINETS ON EACH SIDE. REFER TO ARCHITECTURAL DRAWINGS, ELEVATIONS AND CABINET DETAILS.
 - 19 SIZE OF FLAT PANEL, NOT MOUNTING HEIGHT.
 - 20 JUNCTION BOX FOR ACCESS CONTROL DOUBLE DOOR WIRING AND CONTROL CABLING @46" A.F.F. PROVIDE 1" C. TO DOOR MULLION FOR CABLING. COORDINATE WITH WINDOW AND DOOR CONTRACTORS.
 - 21 PROVIDE 3/4" C. FROM ACCESS CONTROL J-BOX TO LIBRARIAN CONTROL DESK FOR DOOR RELEASE PUSH BUTTON. ROUTE CONDUIT TO OPEN LEG SPACE OF CONTROL DESK. PUSH BUTTON SHALL BE PLACED ON UNDERSIDE OF CONTROL DESK TOP SURFACE. COORDINATE EXACT LOCATION.
 - 22 PROVIDE LIBRARY WITH (2) FULLY FUNCTIONAL FLAT PANEL AUDIO-VISUAL SYSTEMS AS INDICATED IN LIBRARY AUDIO-VISUAL SYSTEM DIAGRAM. REFER TO DETAIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



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 SANTEE SCHOOL DISTRICT

LEVEL 1 FLOOR PLAN - COMMUNICATIONS

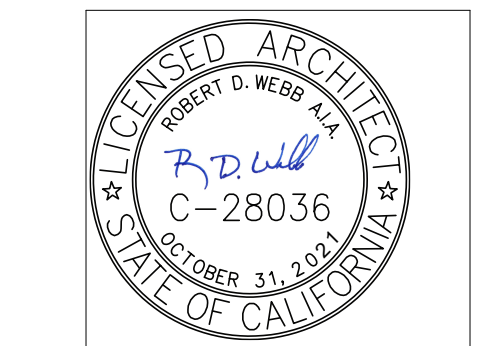
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E4.1

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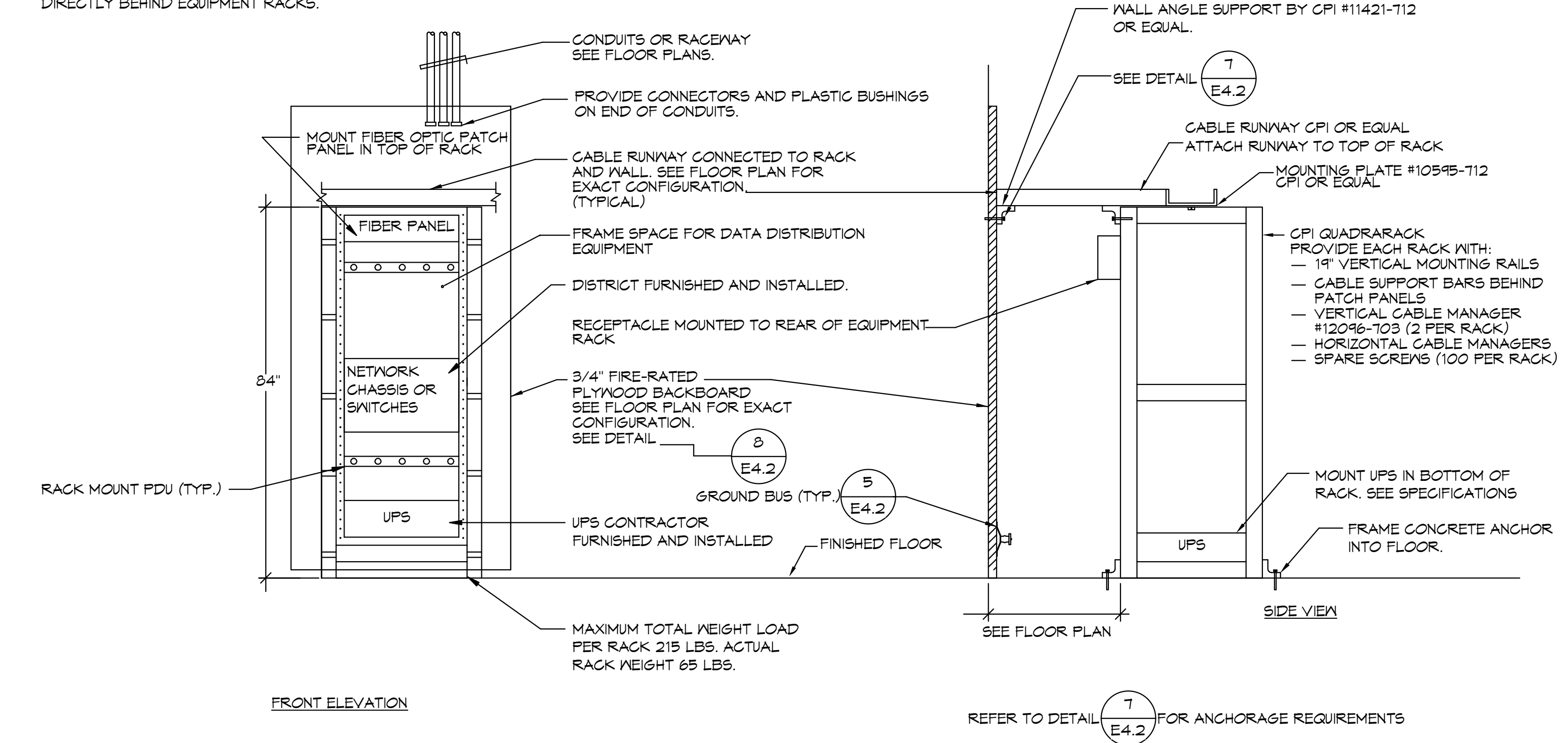
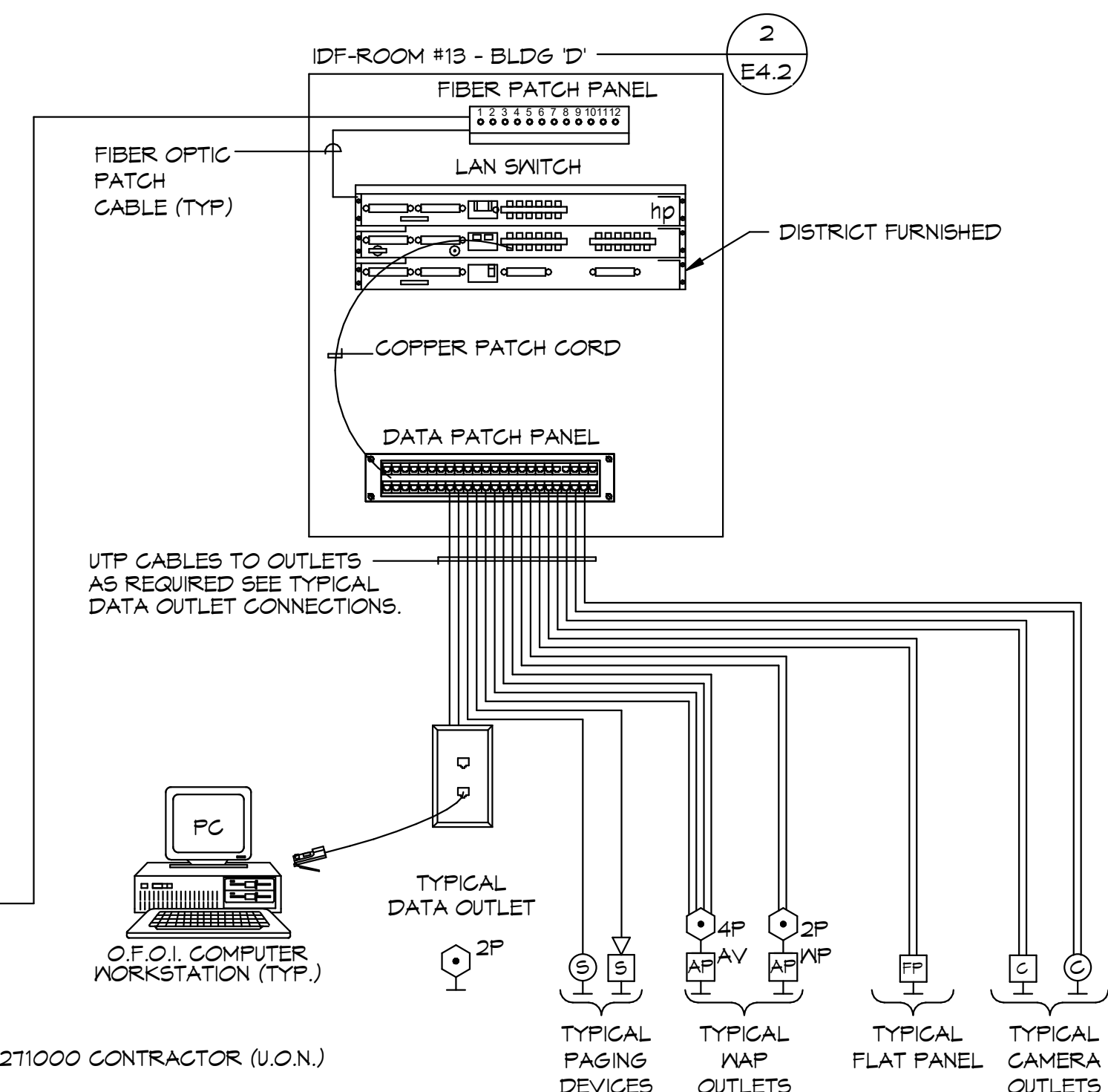
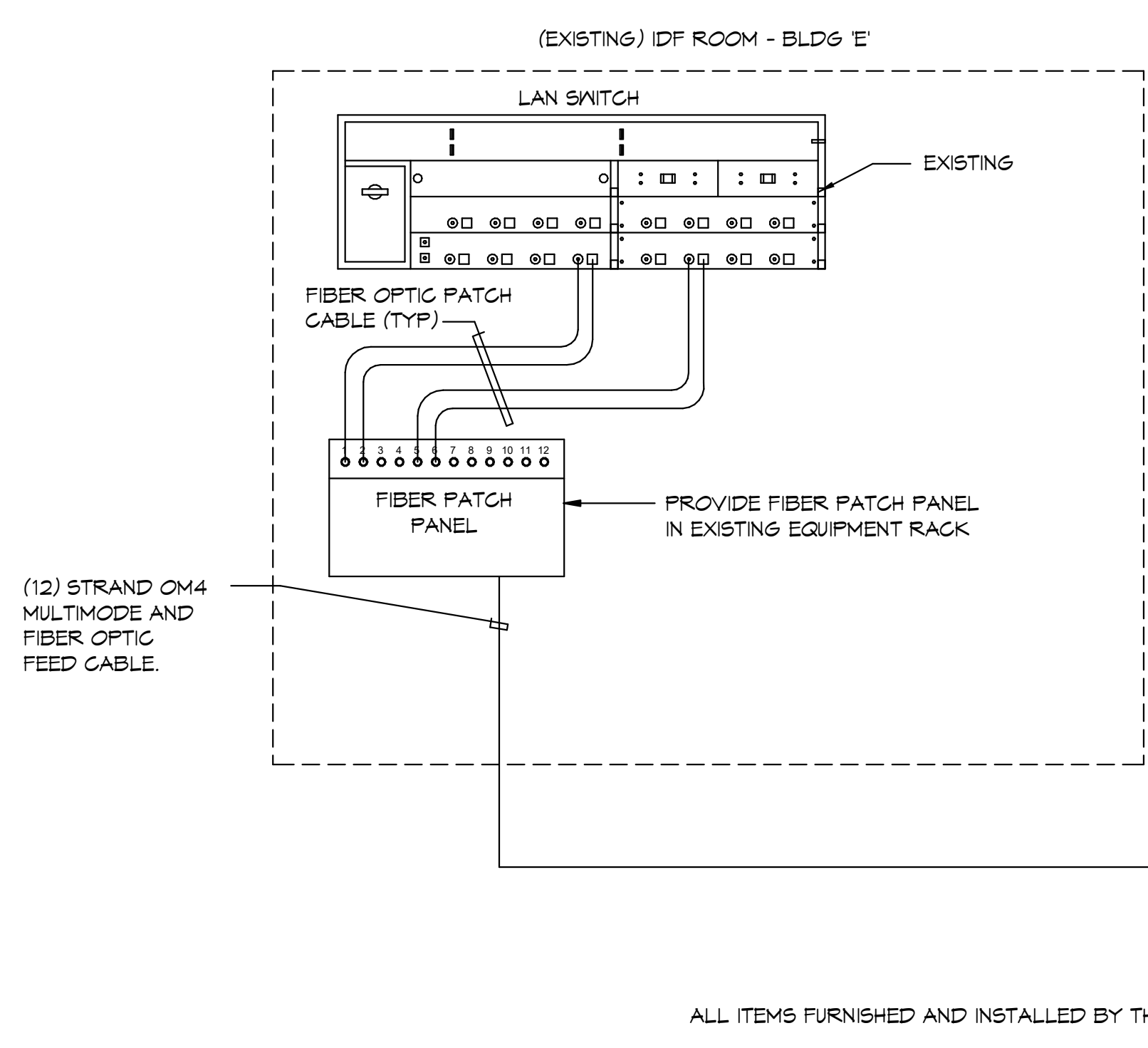


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**COMMUNICATION
 RISER DIAGRAM
 AND DETAILS**

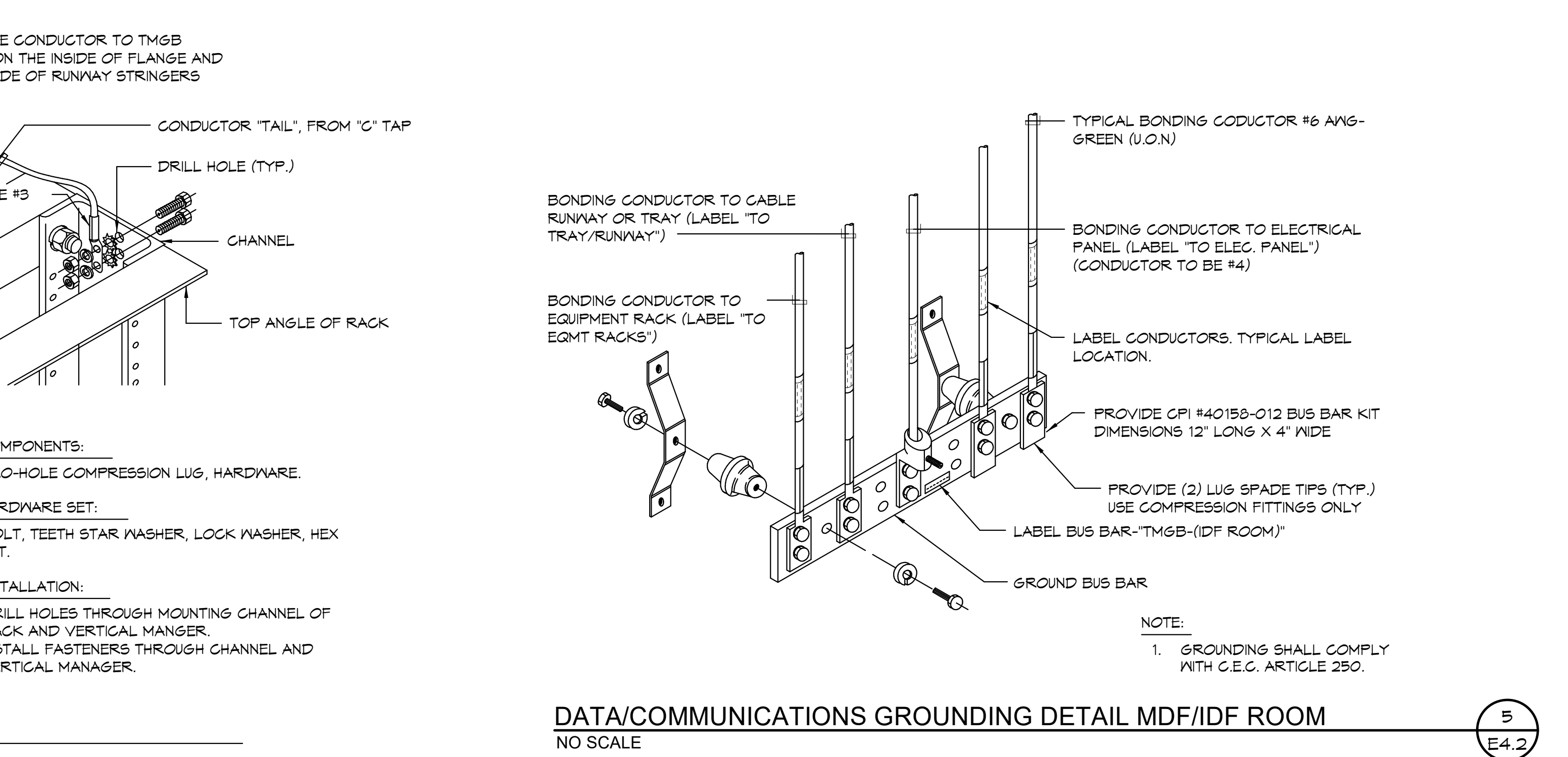
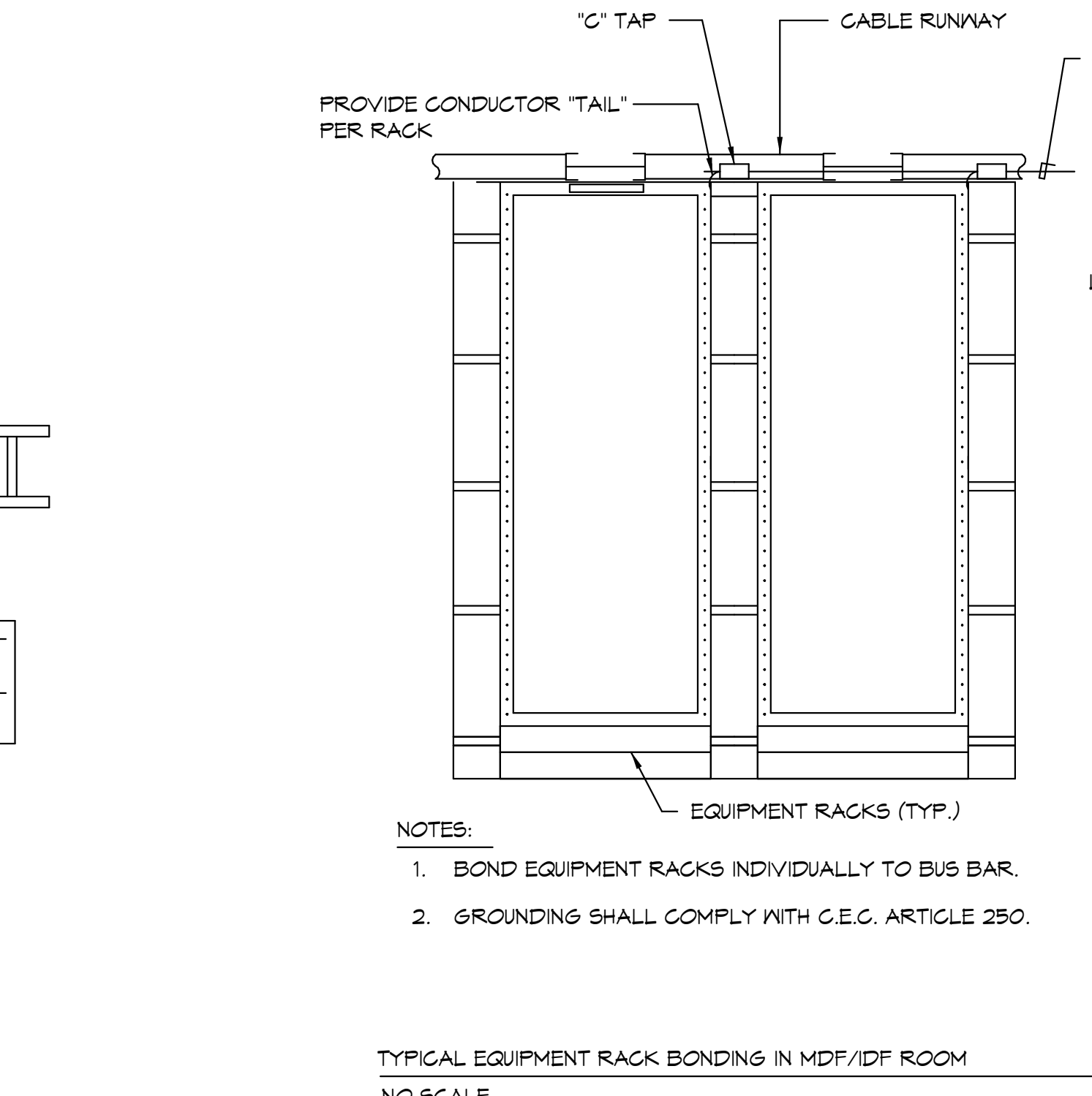
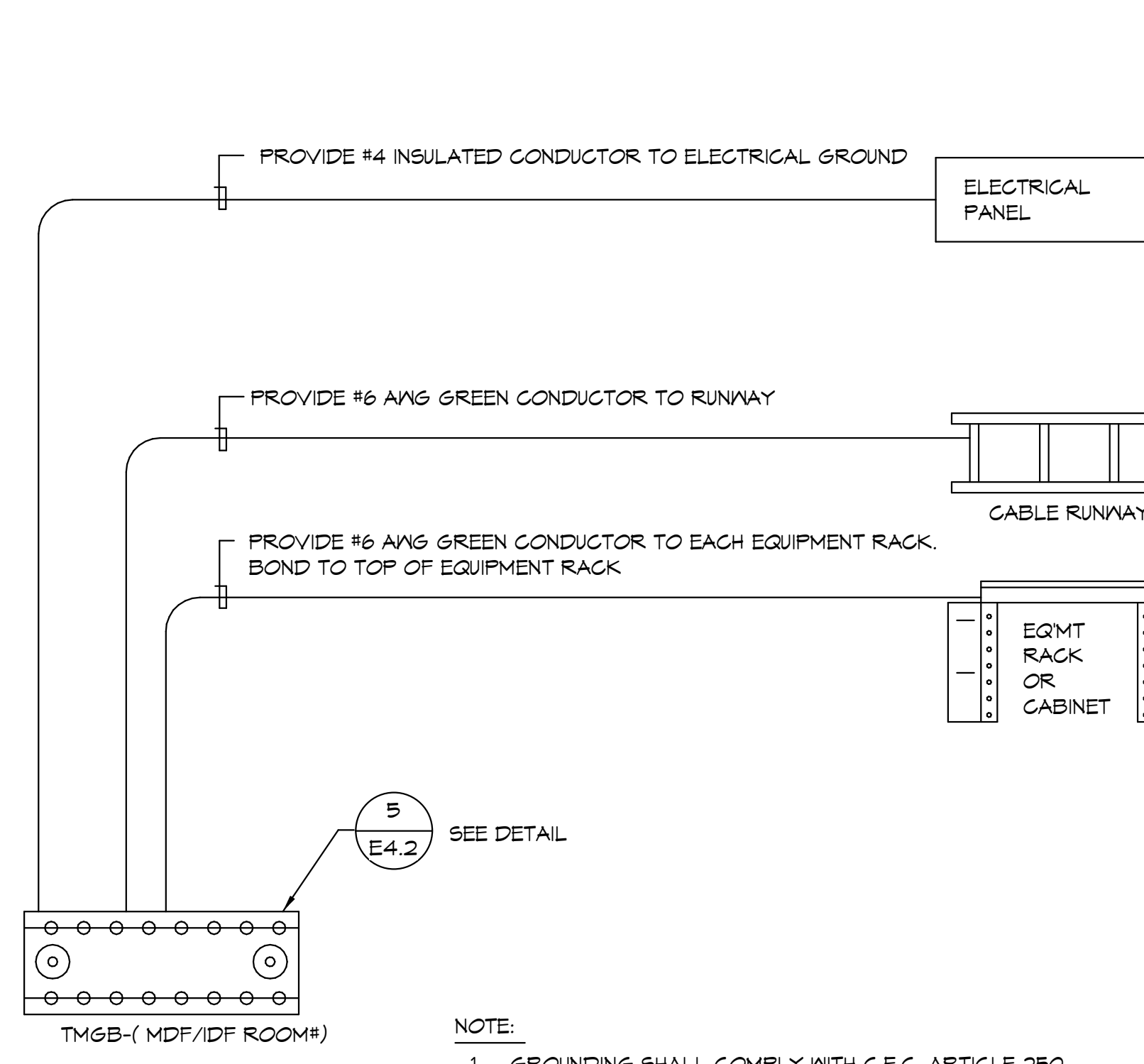
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GENERAL NOTE:
 1. ALL FIBER OPTIC CABLE SHALL HAVE A MINIMUM 20 FOOT SERVICE LOOP NEATLY DRESSED IN LOOP MANAGER DIRECTLY BEHIND EQUIPMENT RACKS.



TYPICAL RISER DIAGRAM
 NO SCALE

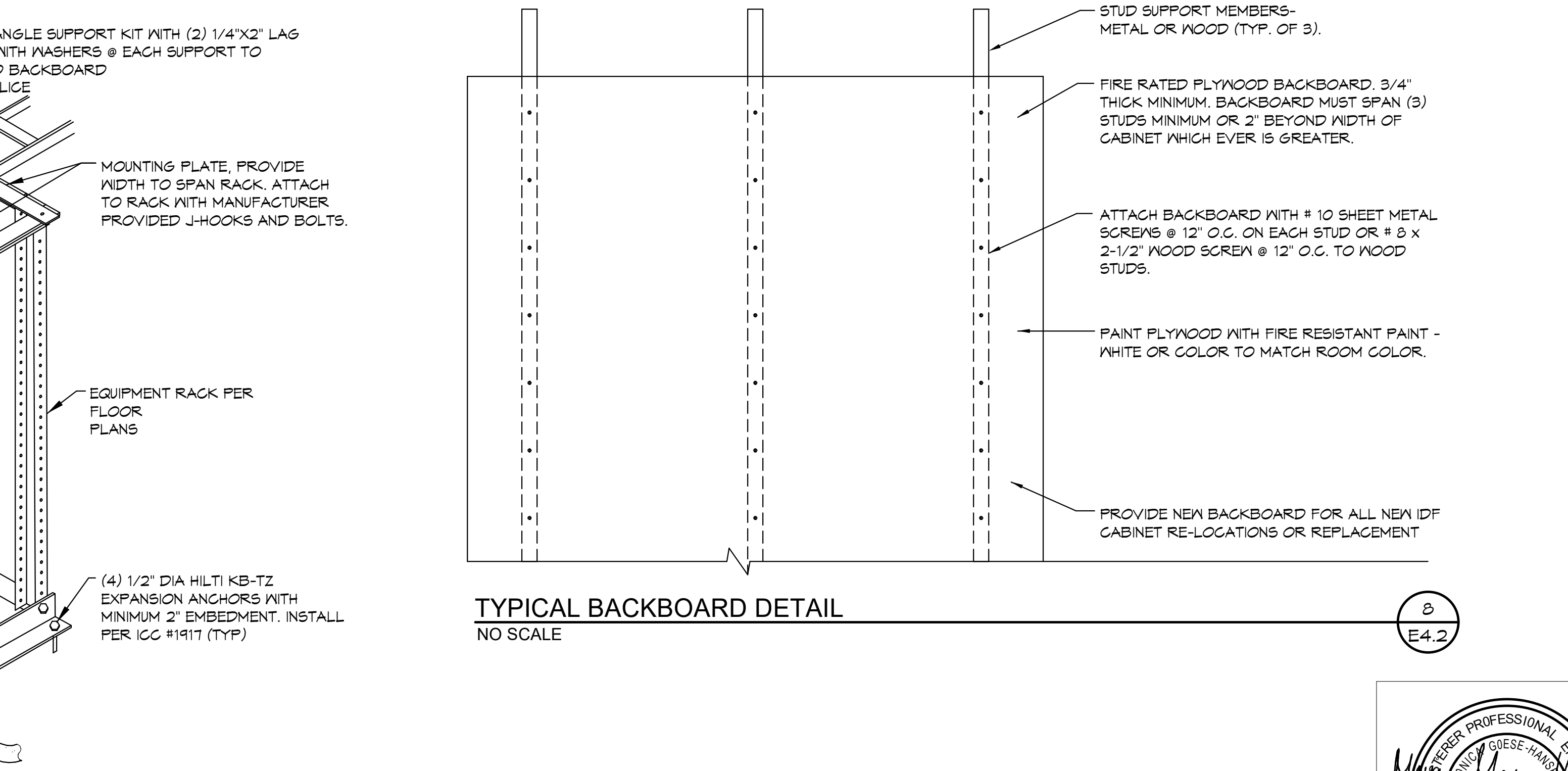
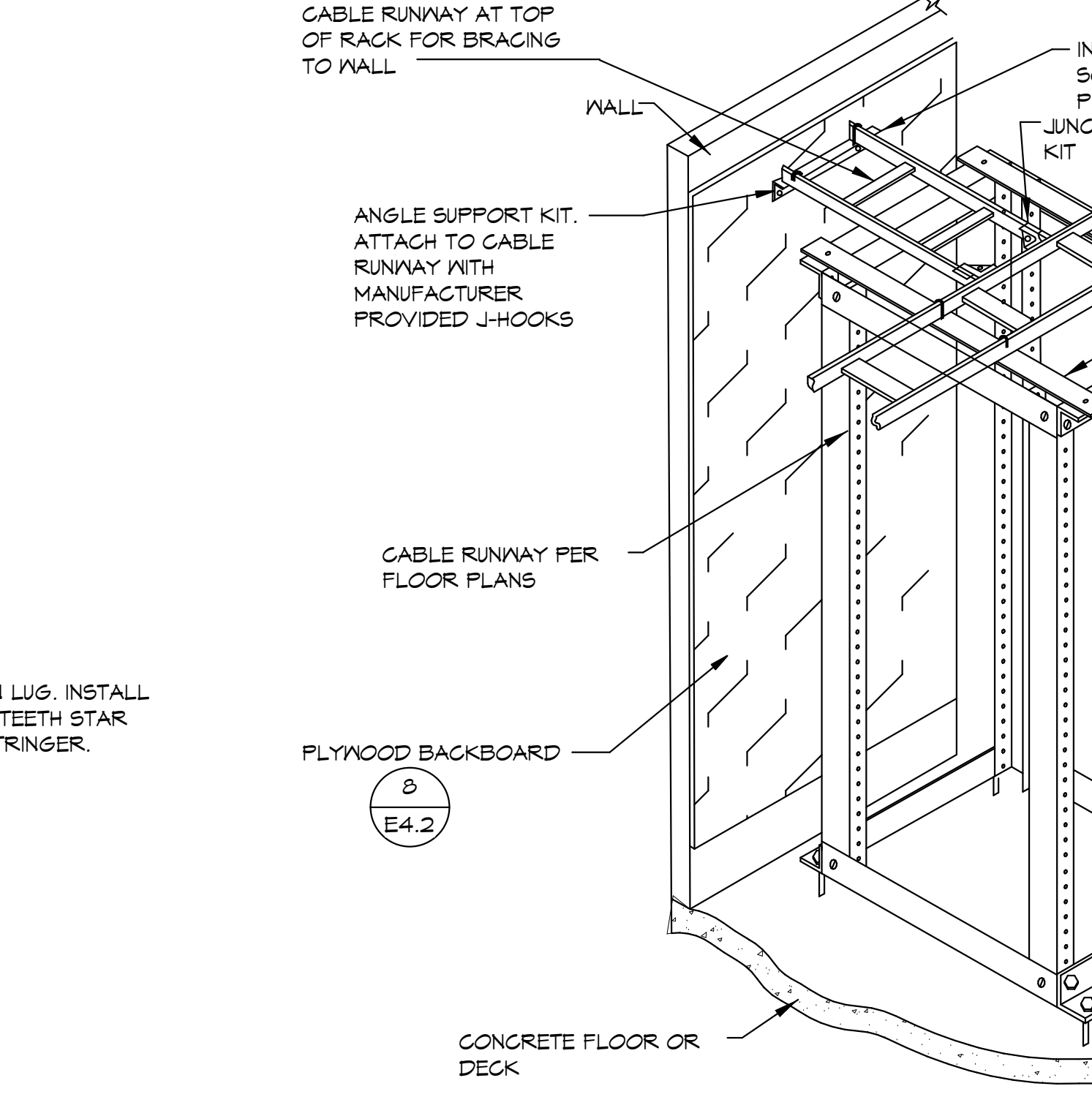
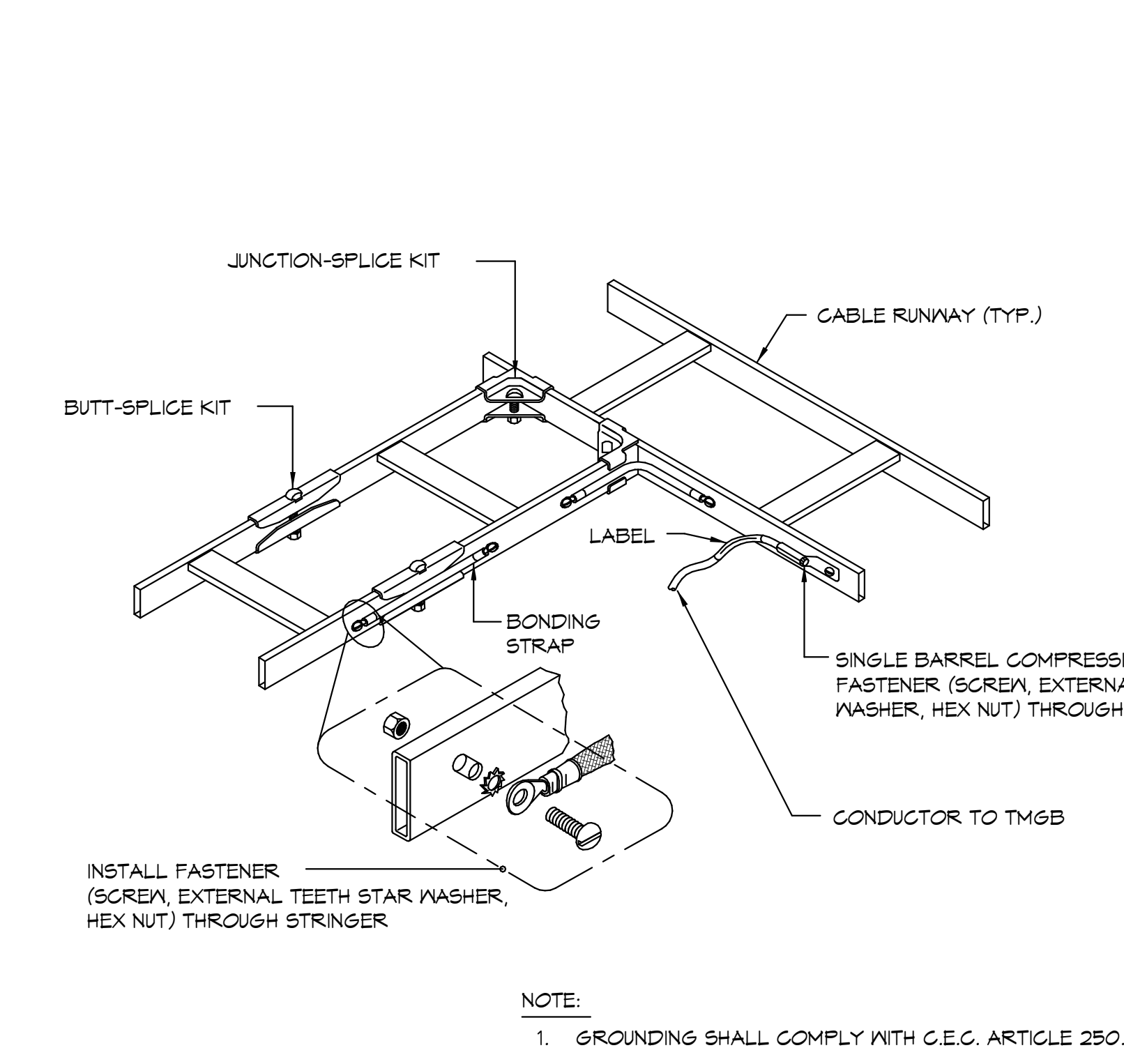
DATA DISTRIBUTION FRAME DETAIL - IDF RACK DETAIL 4-PORT RACK
 NO SCALE



TYPICAL MDF/IDF ROOM GROUNDING DETAIL
 NO SCALE

TYPICAL EQUIPMENT RACK BONDING IN MDF/IDF ROOM
 NO SCALE

DATA/COMMUNICATIONS GROUNDING DETAIL MDF/IDF ROOM
 NO SCALE



TYPICAL CABLE RUNWAY BONDING IN MDF/IDF ROOM
 NO SCALE

4 POST EQUIPMENT RACK ANCHORAGE
 NO SCALE

TYPICAL BACKBOARD DETAIL
 NO SCALE

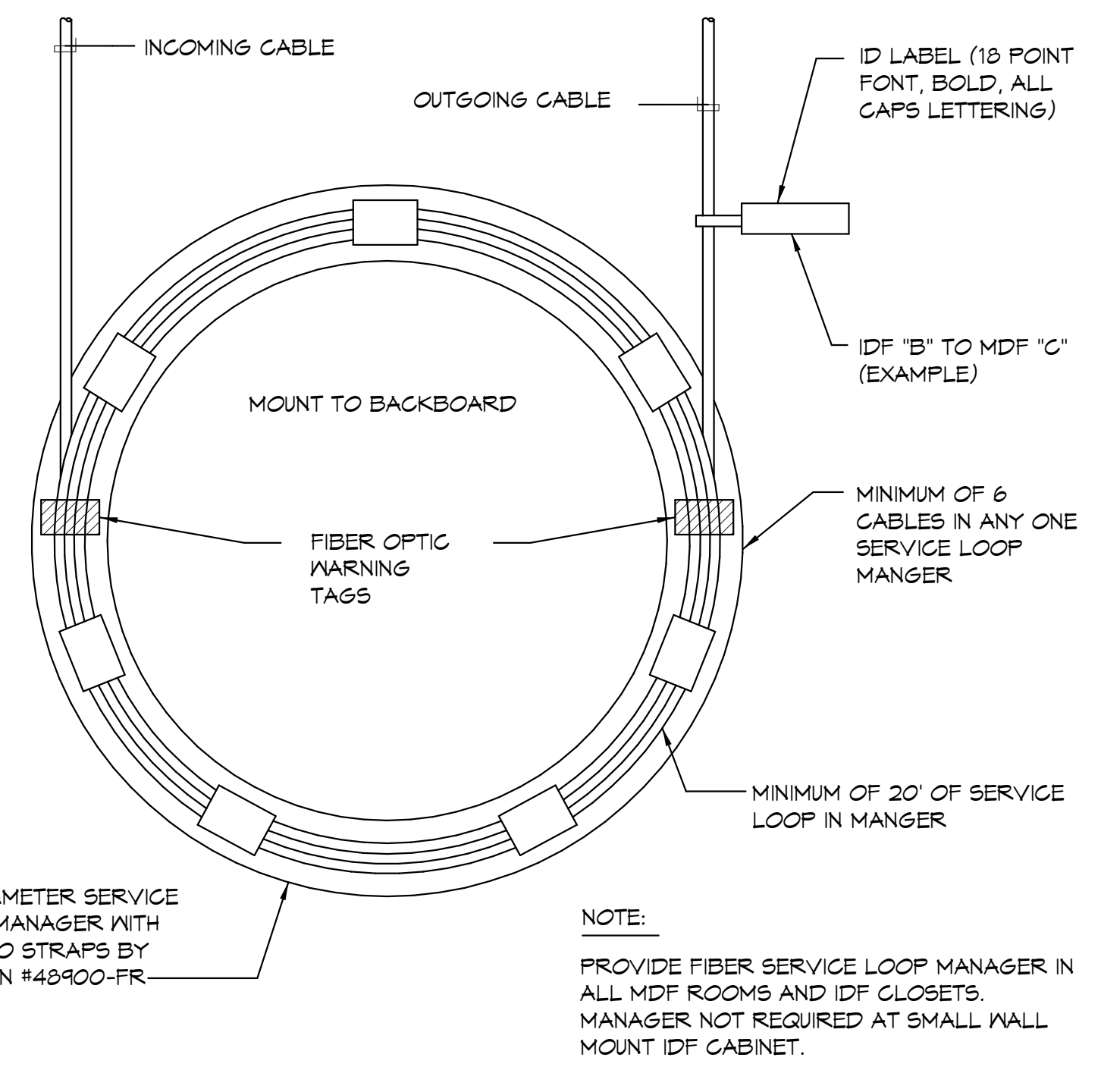
NOTE:
 1. GROUNDING SHALL COMPLY WITH C.E.C. ARTICLE 250.

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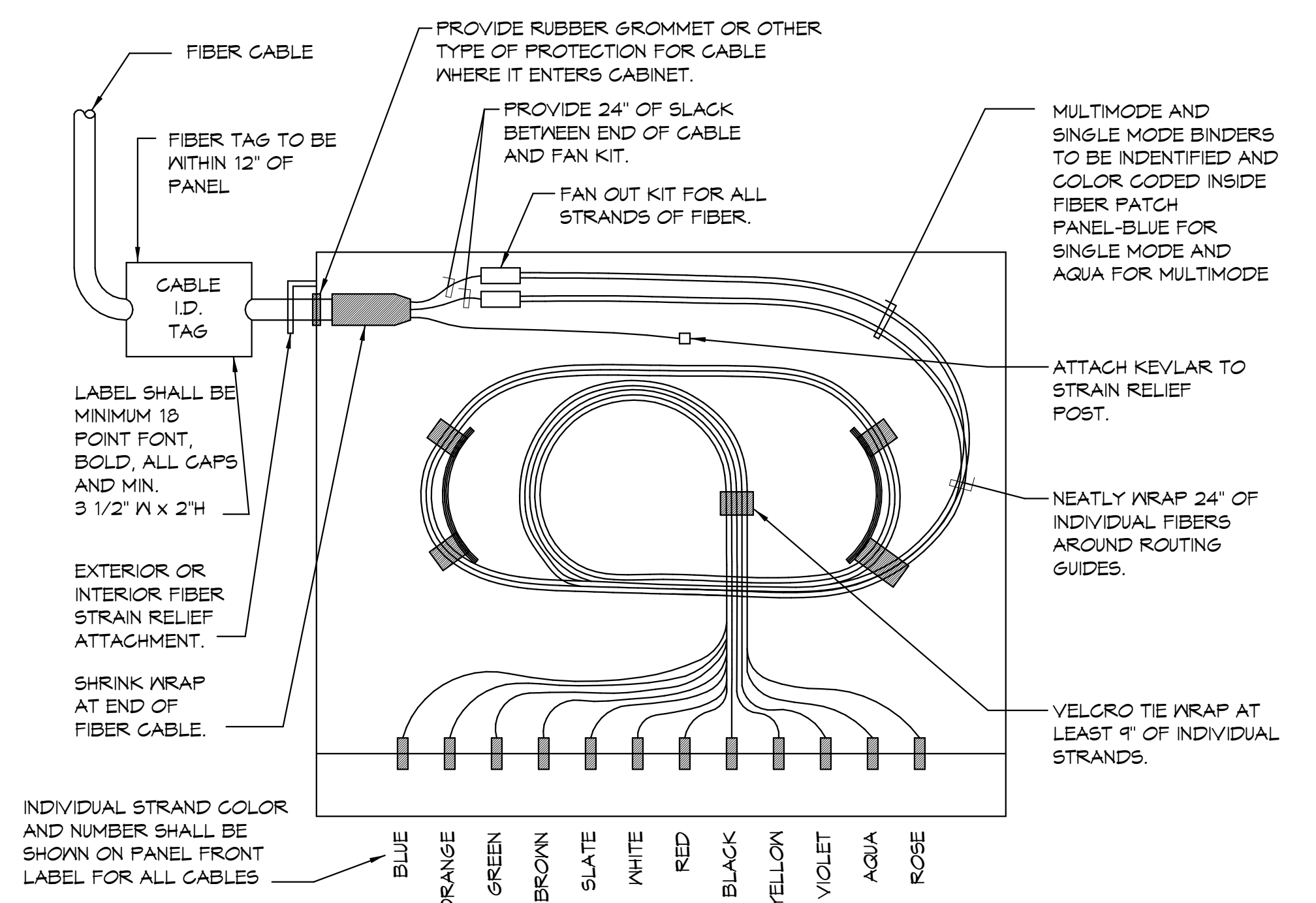
NOTE:
 1. GROUNDING SHALL COMPLY WITH C.E.C. ARTICLE 250.

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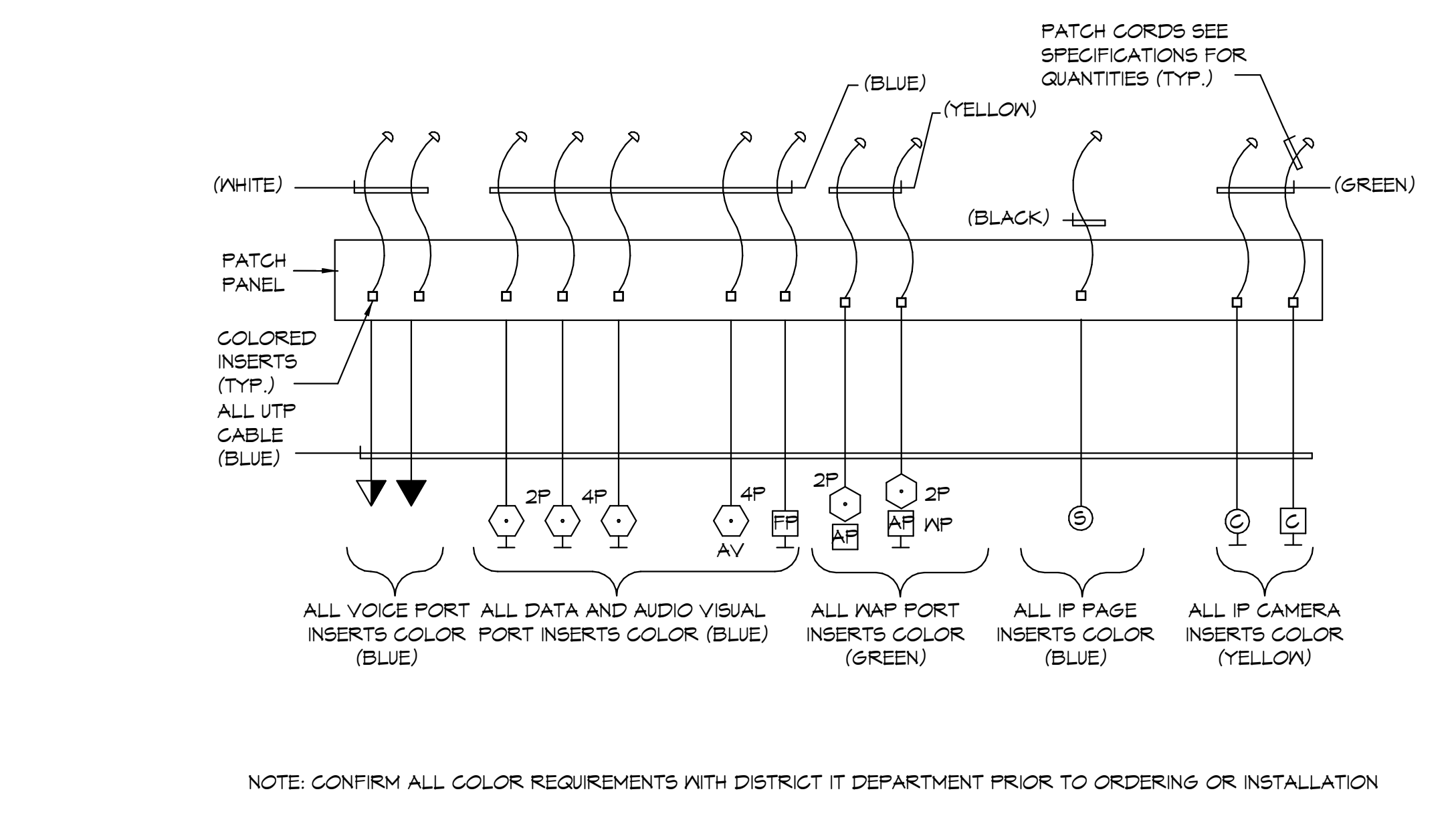
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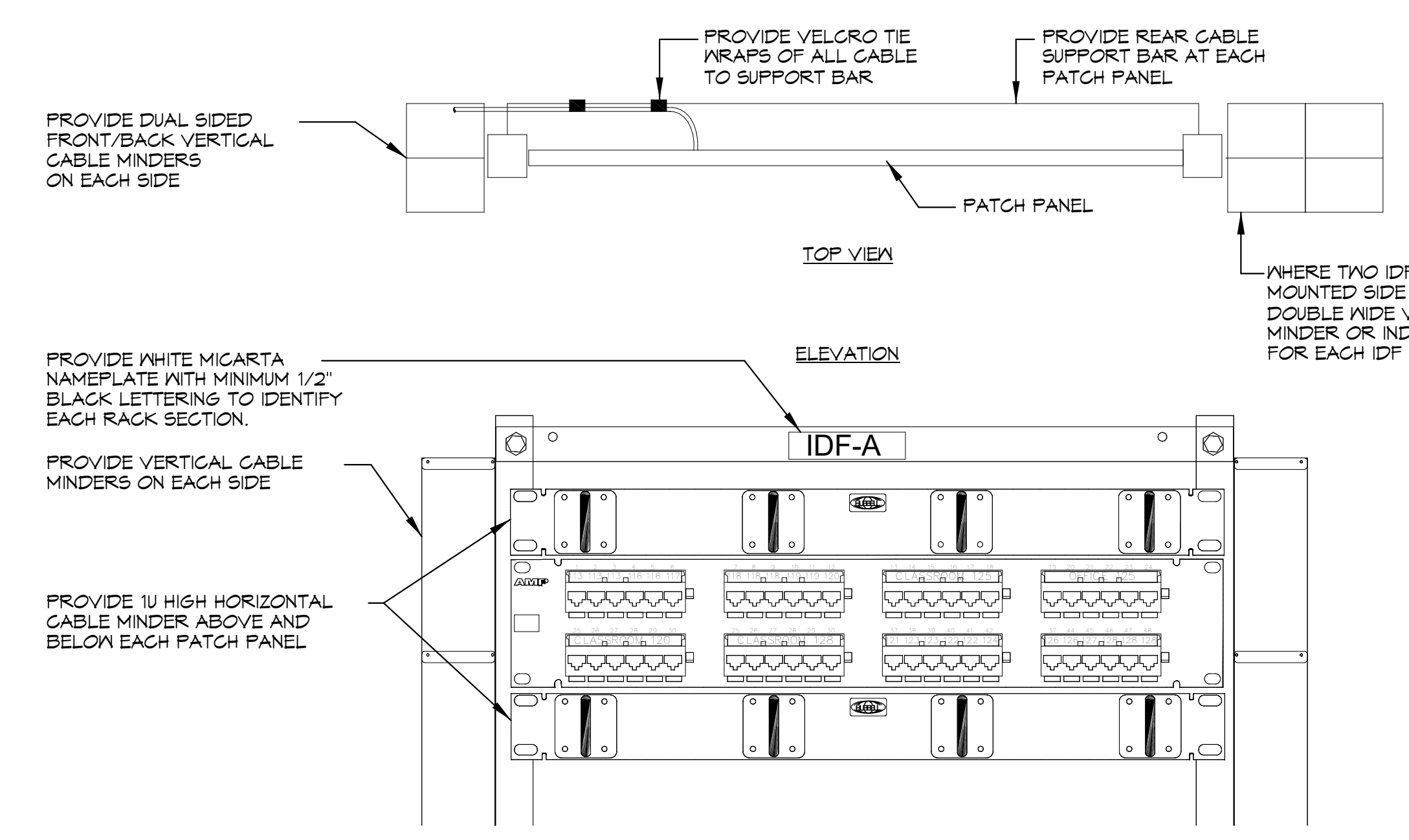
TYPICAL FIBER OTIC FEED SERVICE LOOP DETAIL
 NO SCALE



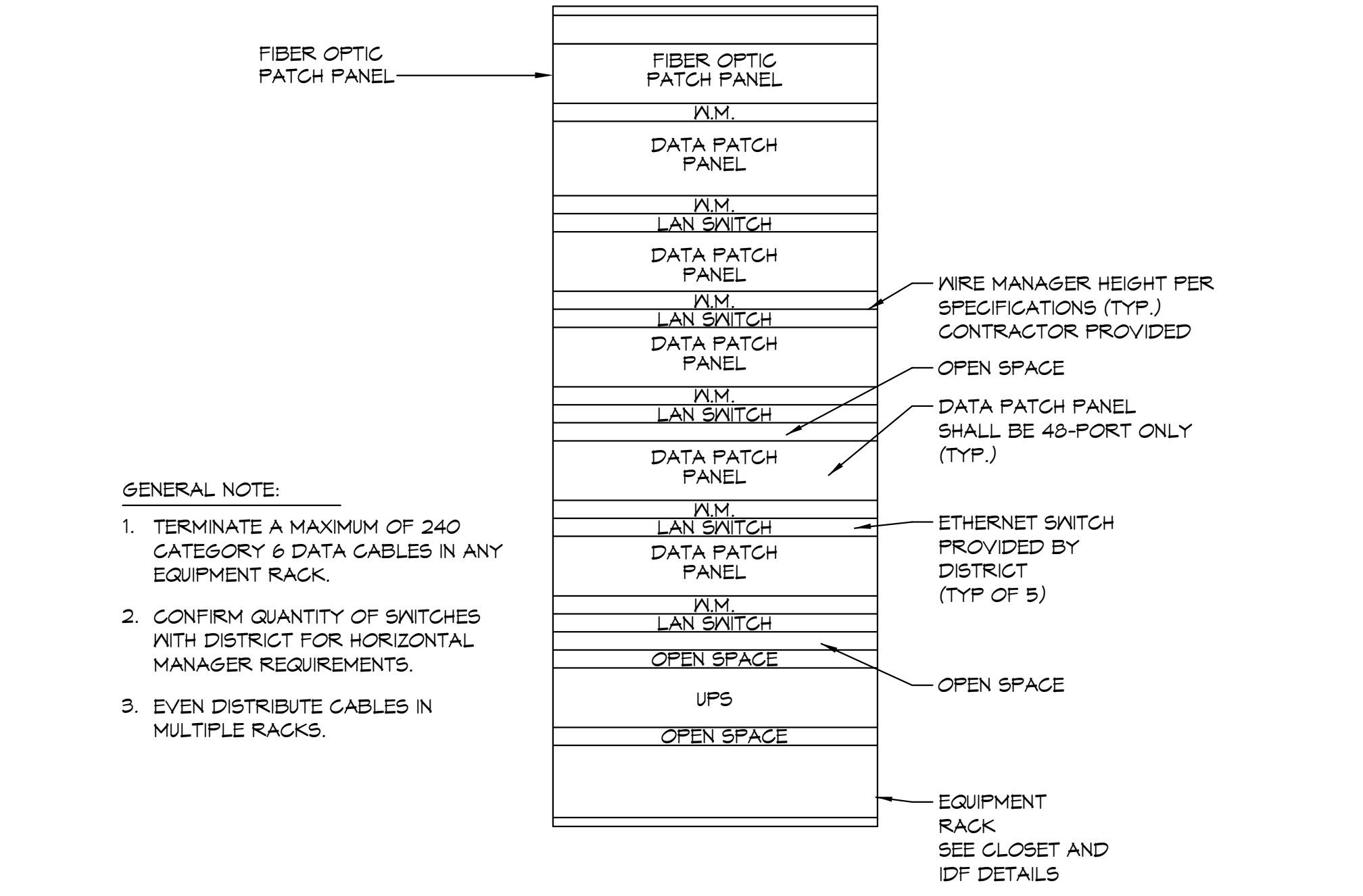
TYPICAL FIBER TERMINATION DETAIL
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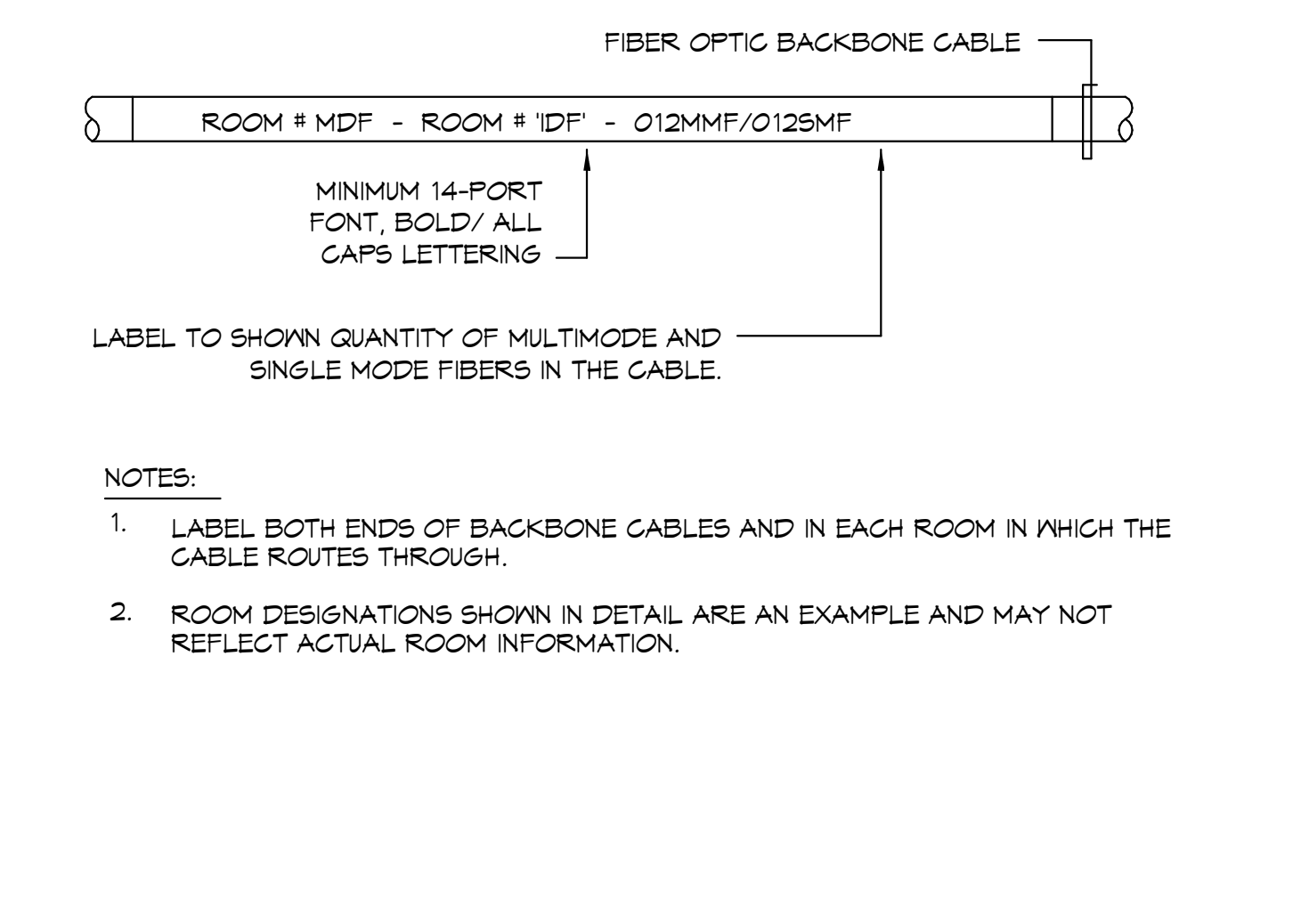
TYPICAL CABLE/INSERT COLOR SCHEME DETAIL
 NO SCALE



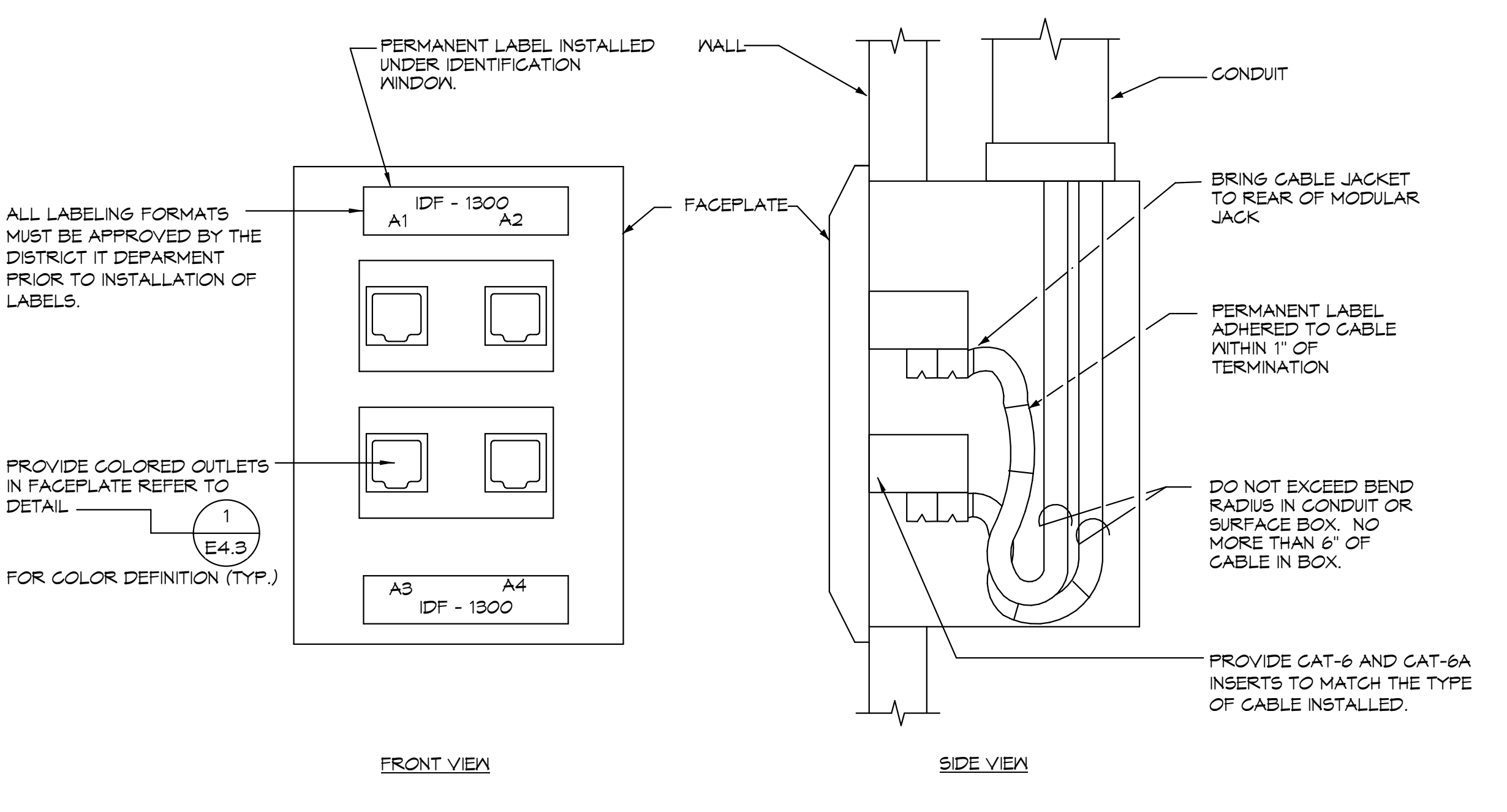
TYPICAL IDF/MDF LABELING AND CABLE SUPPORT DETAIL
 NO SCALE



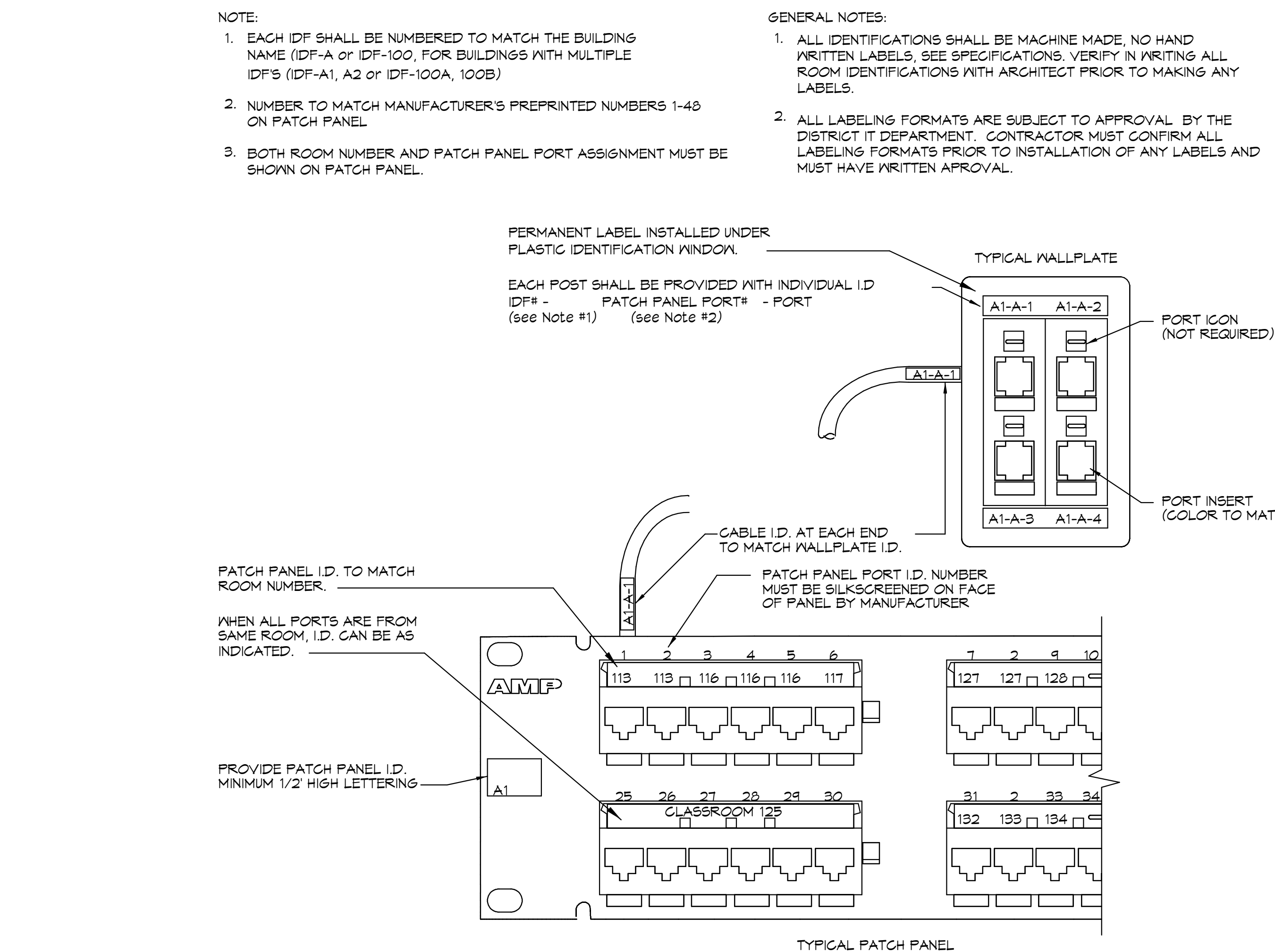
MAXIMUM EQUIPMENT RACK POPULATION DETAIL
 NO SCALE



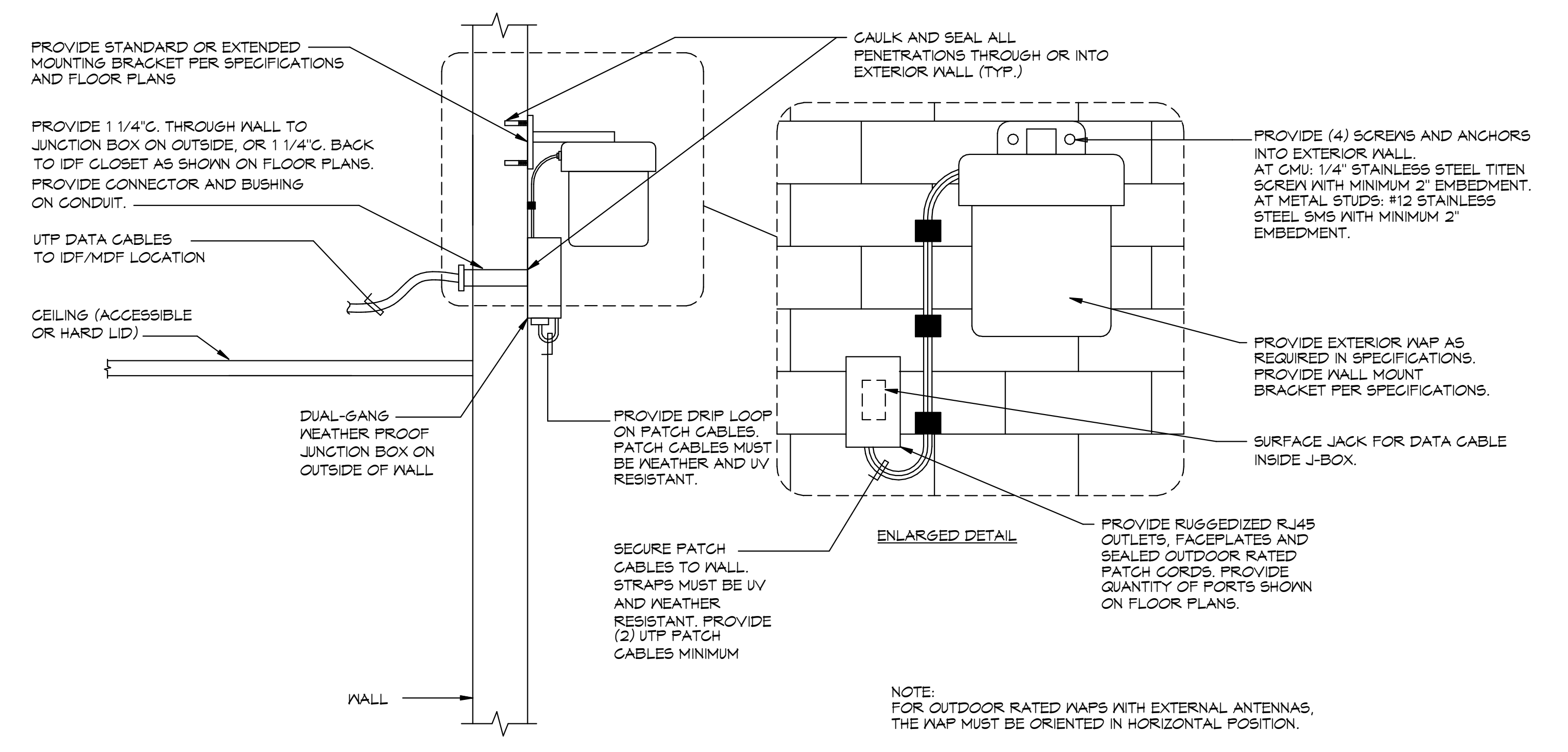
TYPICAL BACKBONE LABELING DETAIL
 NO SCALE



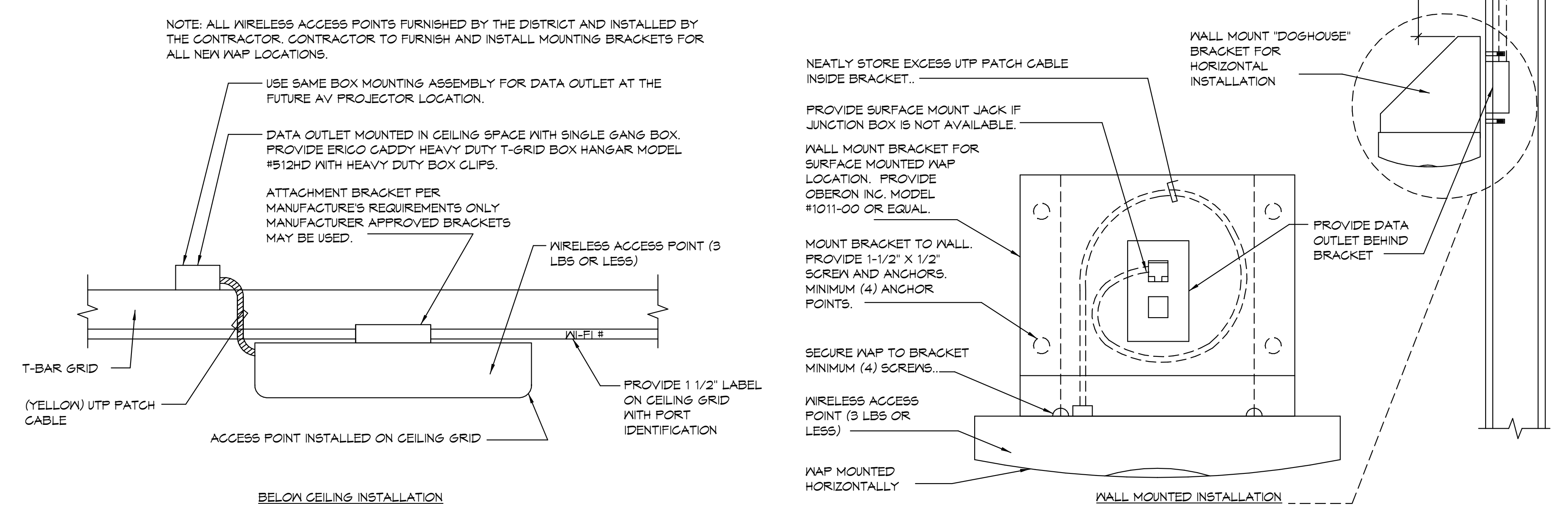
TYPICAL FACEPLATE LABELING DETAIL
 NO SCALE



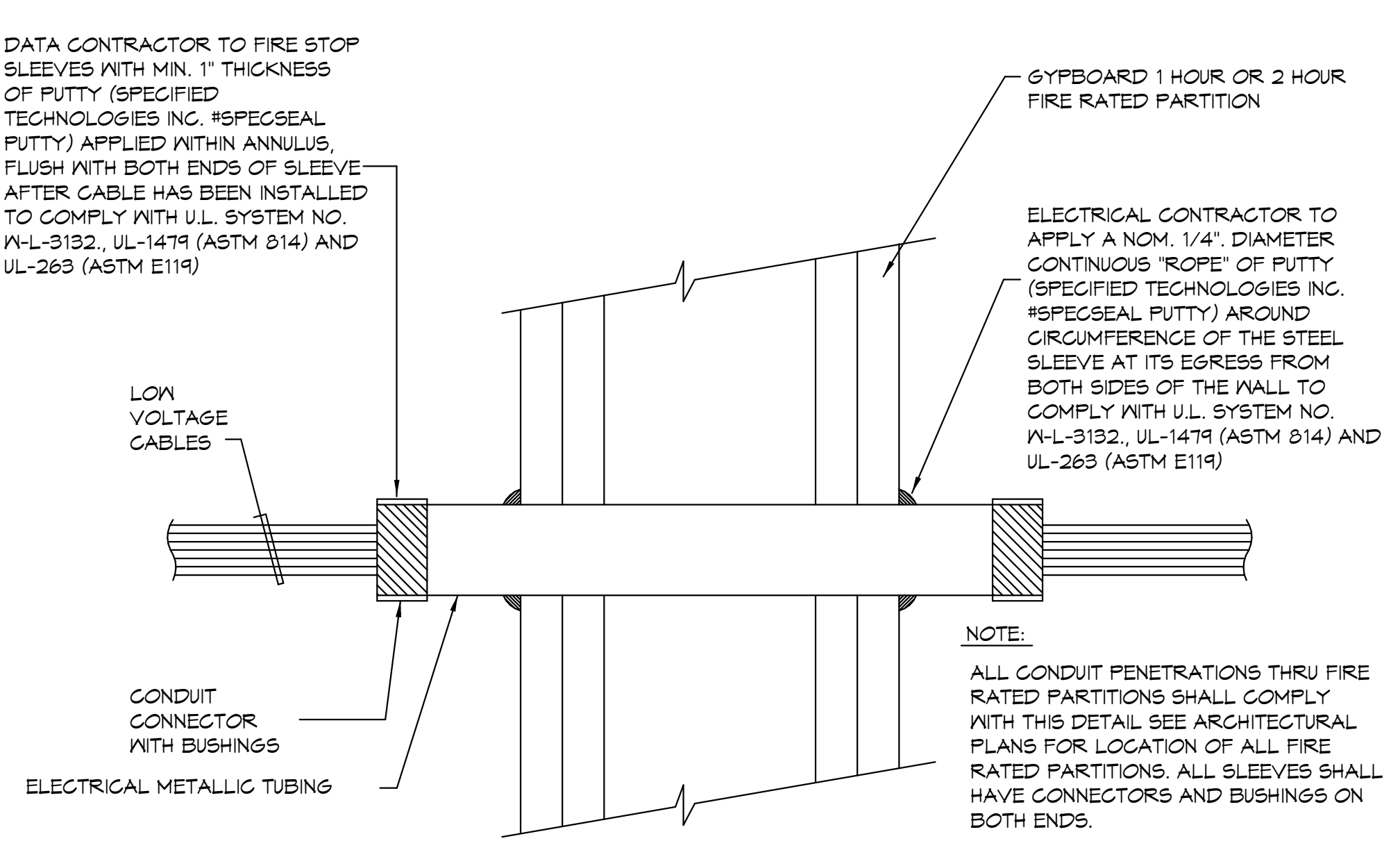
TYPICAL DATA NETWORKING LABELING REQUIREMENT
 NO SCALE



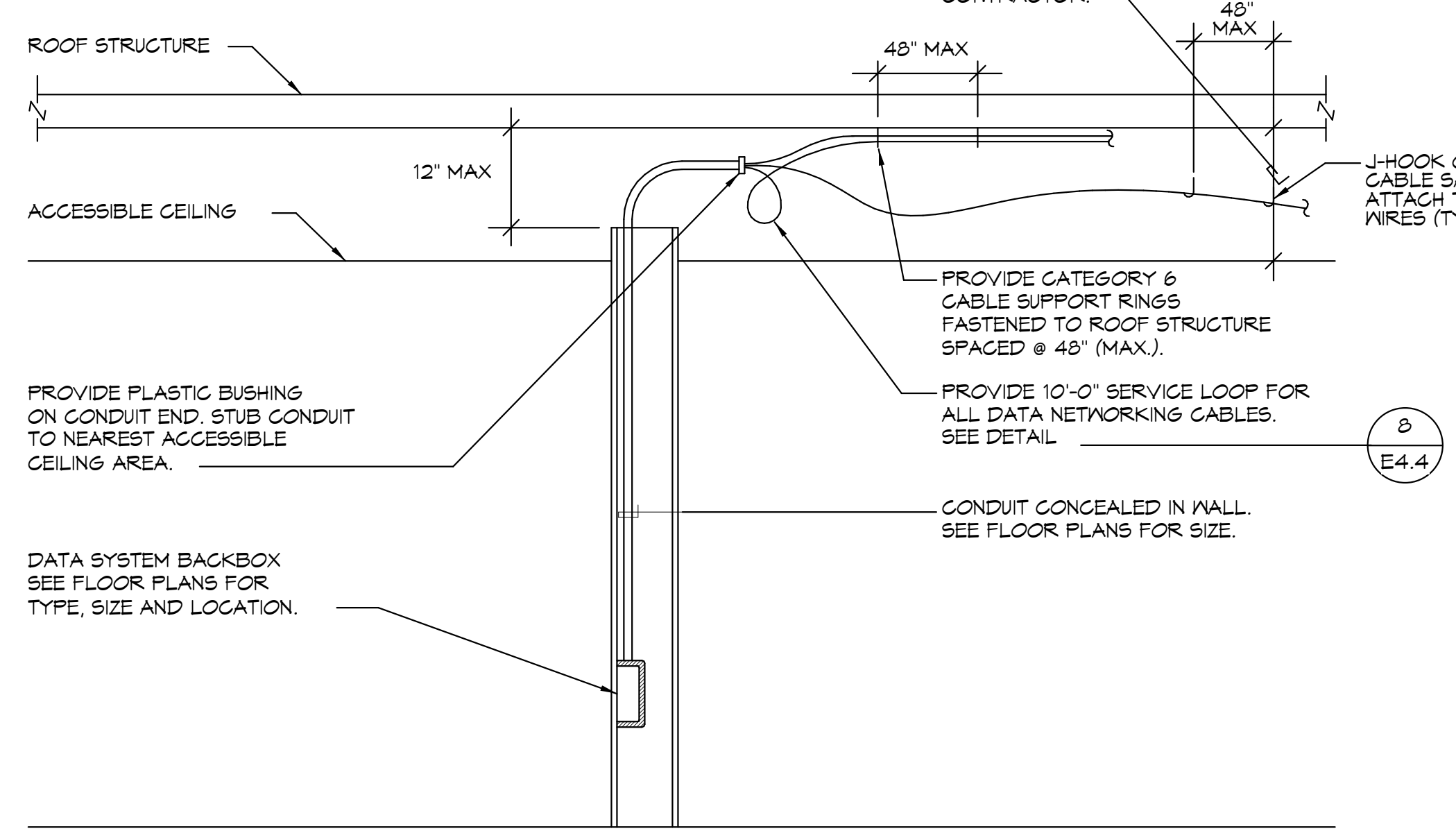
1
 EXTERIOR OUTDOOR RATED WIRELESS ACCESS POINT MOUNTING DETAIL
 NO SCALE
 E4.4



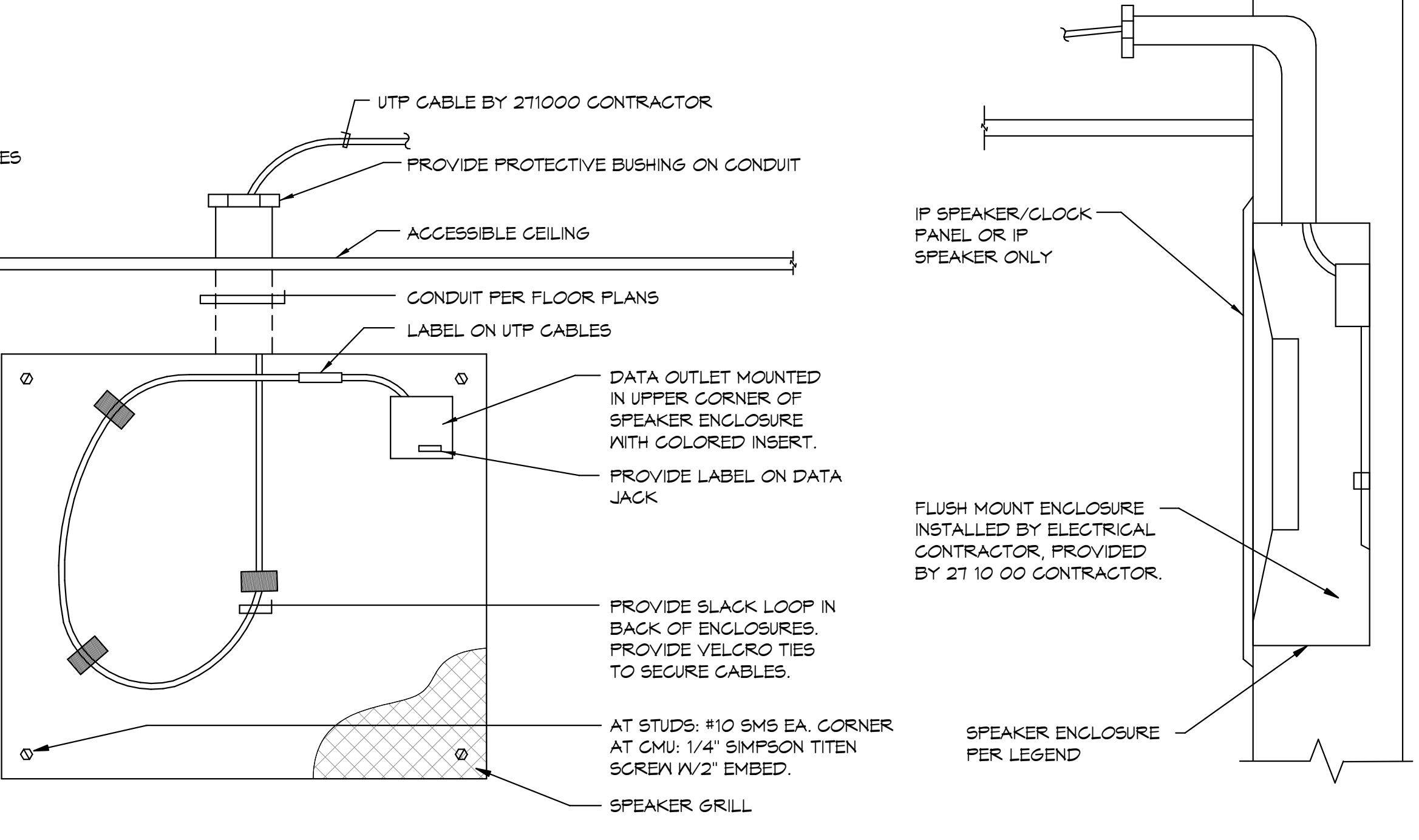
2
 WIRELESS ACCESS POINT ANTENNA MOUNTING DETAILS
 NO SCALE
 E4.4



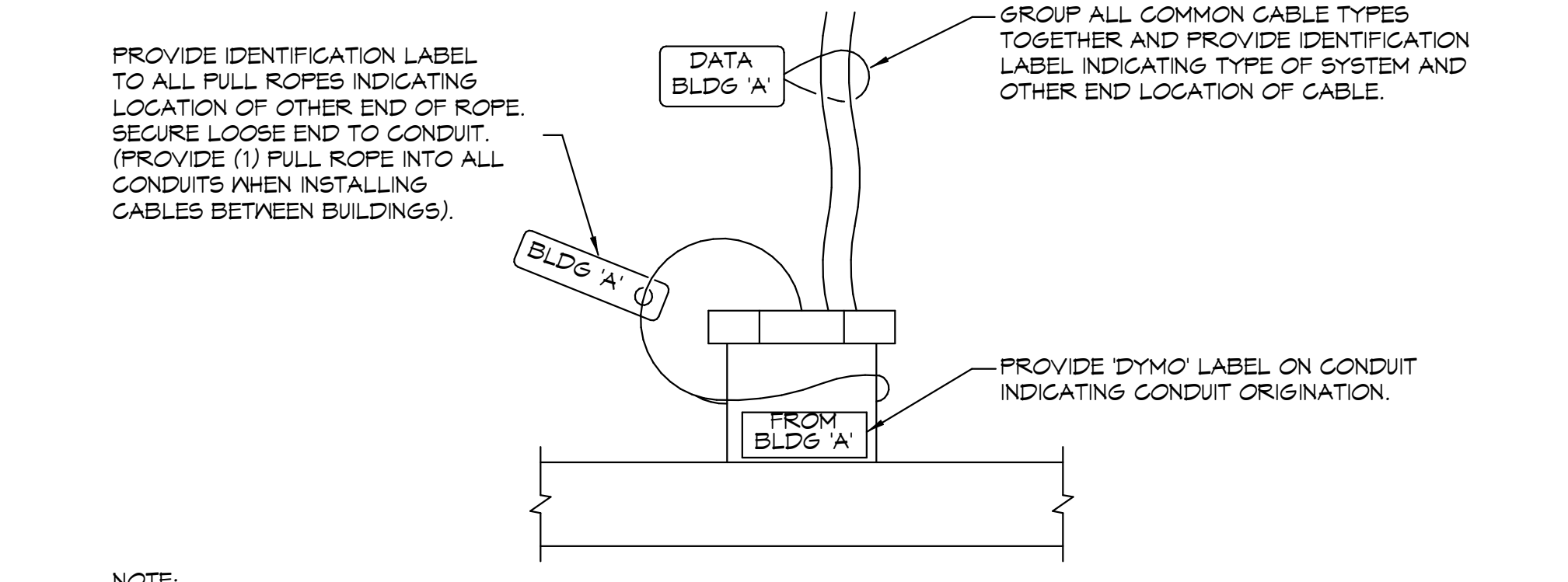
3
 DATA SLEEVE PENETRATION THRU FIRE RATED PARTITIONS
 NO SCALE
 E4.4



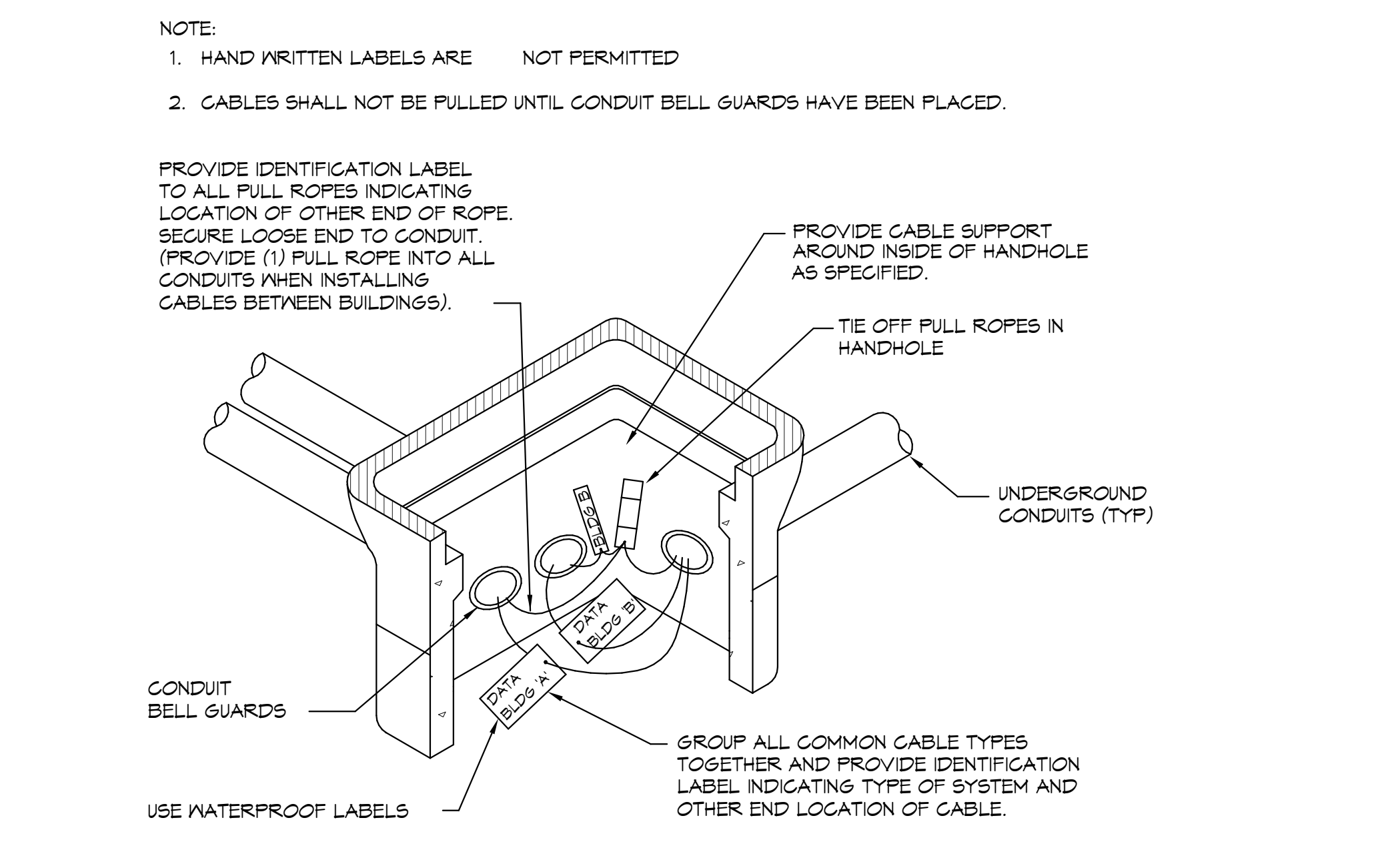
4
 COMMUNICATIONS SYSTEM OPEN WIRE/CONDUIT STUB TYPICAL
 NO SCALE
 E4.4



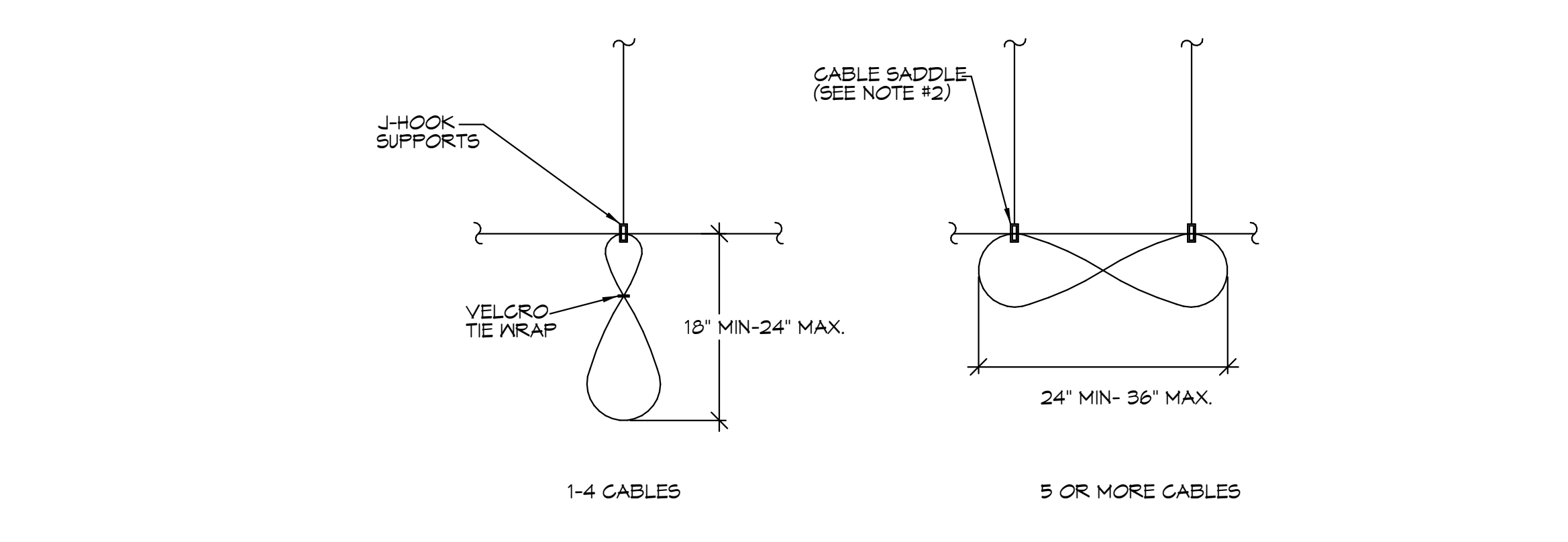
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 FLUSH MOUNTED IP SPEAKER/CLOCK COMBINATION
 NO SCALE
 E4.4



6
 COMMUNICATION CABLE TYPICAL LABELING DETAIL
 NO SCALE
 E4.4



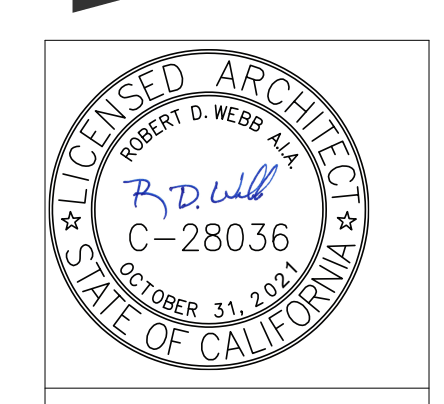
7
 COMMUNICATION HANDHOLE LABELING DETAIL (TYP)
 NO SCALE
 E4.4



8
 TYPICAL SERVICE LOOP
 NO SCALE
 E4.4

Date	Revision	Consultant	Engineer

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PROSPECT AVENUE ELEMENTARY SCHOOL
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COMMUNICATION DETAILS

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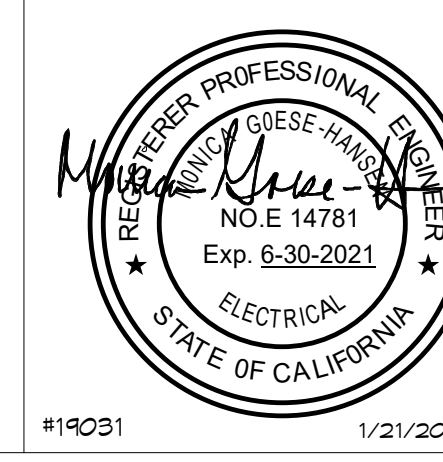
E4.4

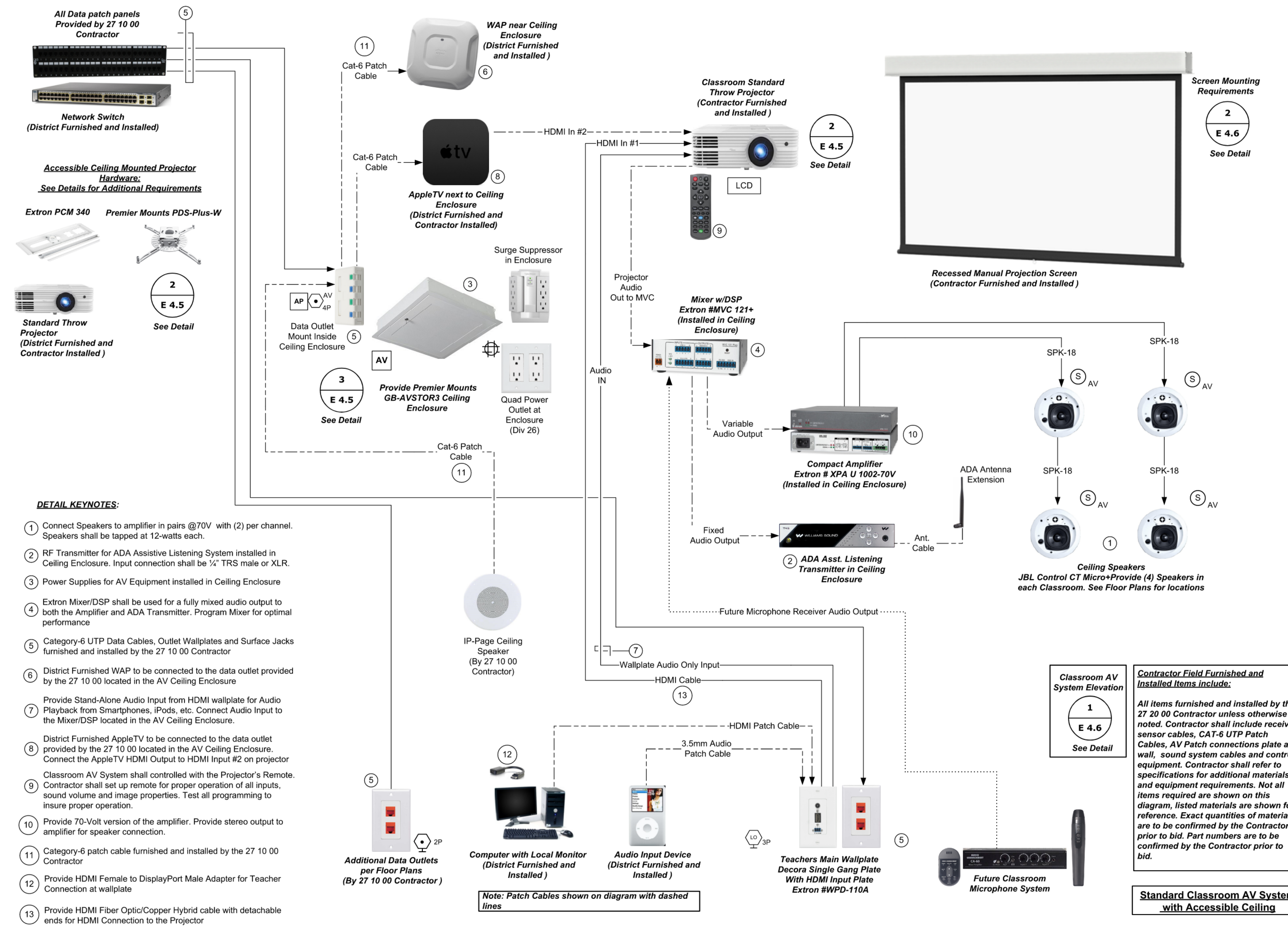
6
 COMMUNICATION CABLE TYPICAL LABELING DETAIL
 NO SCALE
 E4.4

7
 COMMUNICATION HANDHOLE LABELING DETAIL (TYP)
 NO SCALE
 E4.4

8
 TYPICAL SERVICE LOOP
 NO SCALE
 E4.4

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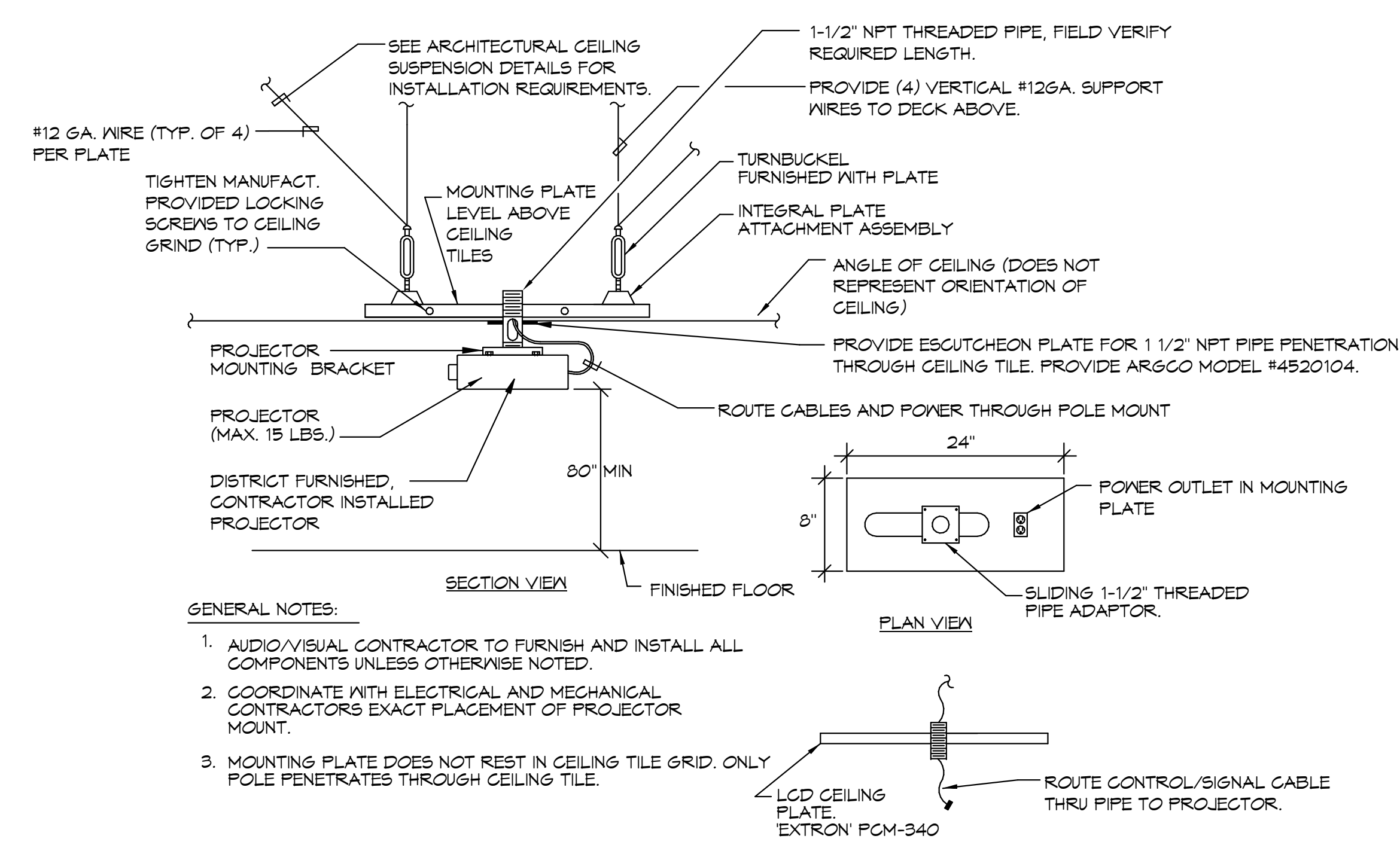




- DETAIL KEYNOTES:**
- 1 Connect Speakers to amplifier in pairs @70V with (2) per channel. Speakers shall be tapped at 12-watts each.
 - 2 RF Transmitter for ADA Assistive Listening System installed in Ceiling Enclosure. Input connection shall be 1/2" TRS male or XLR.
 - 3 Power Supplies for AV Equipment installed in Ceiling Enclosure
 - 4 Extron Mixer/DSP shall be used for a fully mixed audio output to both the Amplifier and ADA Transmitter. Program Mixer for optimal performance
 - 5 Category-6 UTP Data Cables, Outlet Wallplates and Surface Jacks furnished and installed by the 27 10 00 Contractor
 - 6 District Furnished WAP to be connected to the data outlet provided by the 27 10 00 located in the AV Ceiling Enclosure
 - 7 Provide Stand-Alone Audio Input from HDMI wallplate for Audio Playback from Smartphones, iPods, etc. Connect Audio Input to the Mixer/DSP located in the AV Ceiling Enclosure.
 - 8 District Furnished AppleTV to be connected to the data outlet provided by the 27 10 00 located in the AV Ceiling Enclosure. Connect the AppleTV HDMI Output to HDMI Input #2 on projector
 - 9 Classroom AV System shall controlled with the Projector's Remote. Contractor shall set up remote for proper operation of all inputs, sound volume and image properties. Test all programming to insure proper operation.
 - 10 Provide 70-Volt version of the amplifier. Provide stereo output to amplifier for speaker connection.
 - 11 Category-6 patch cable furnished and installed by the 27 10 00 Contractor
 - 12 Provide HDMI Female to DisplayPort Male Adapter for Teacher Connection at wallplate
 - 13 Provide HDMI Fiber Optic/Copper Hybrid cable with detachable ends for HDMI Connection to the Projector

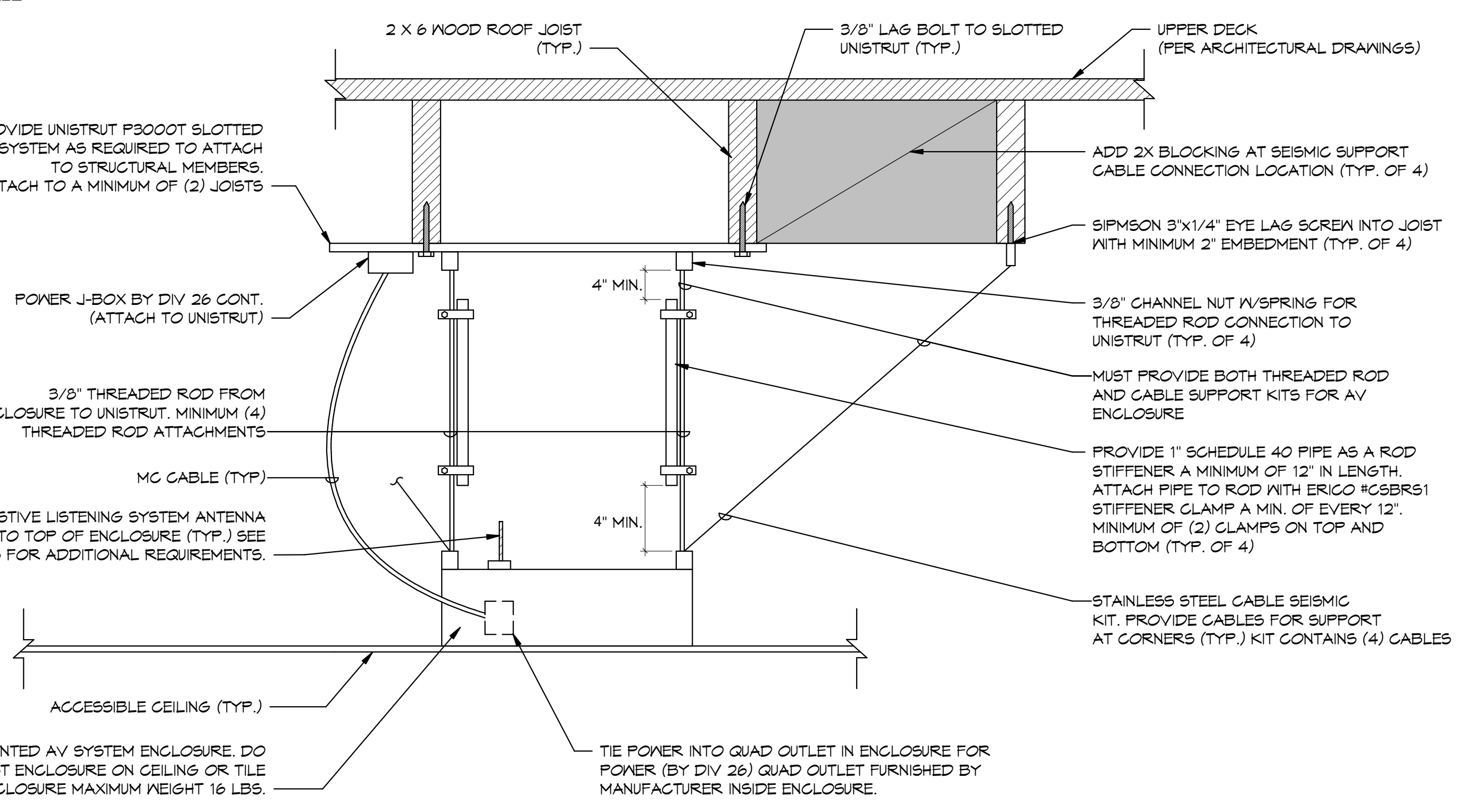
STANDARD CLASSROOM AUDIO-VISUAL SYSTEM DIAGRAM
 NO SCALE

1
E 4.5
See Detail



CEILING PROJECTOR MOUNTING DETAIL FOR ACCESSIBLE CEILING
 NO SCALE

2
E 4.5
See Detail



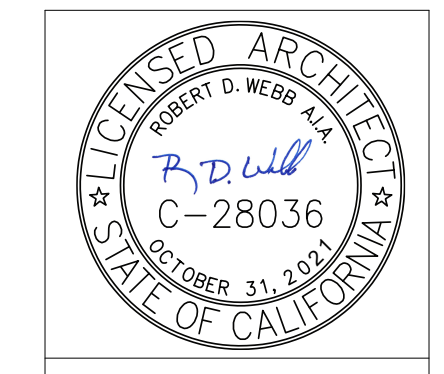
- NOTES:**
1. PROVIDE LENGTH OF THREADED ROD AND SUPPORT CABLES AS REQUIRED TO MAKE ATTACHMENT.
 2. COORDINATE WITH ARCHITECTURAL FOR CEILING TILE AND T-GRID FOR PLACEMENT OF AV ENCLOSURE.
 3. PROVIDE CEILING MOUNTED ENCLOSURE BY PREMIER MOUNTS MODEL #SB-AVSTOR3 WITH BOTH THREADED ROD AND SUPPORT CABLES KITS. ENCLOSURE SHALL BE FURNISHED WITH INTERNAL QUAD POWER RECEPTACLE.

CLASSROOM AUDIO-VISUAL CEILING ENCLOSURE
 NO SCALE

3
E 4.5
See Detail

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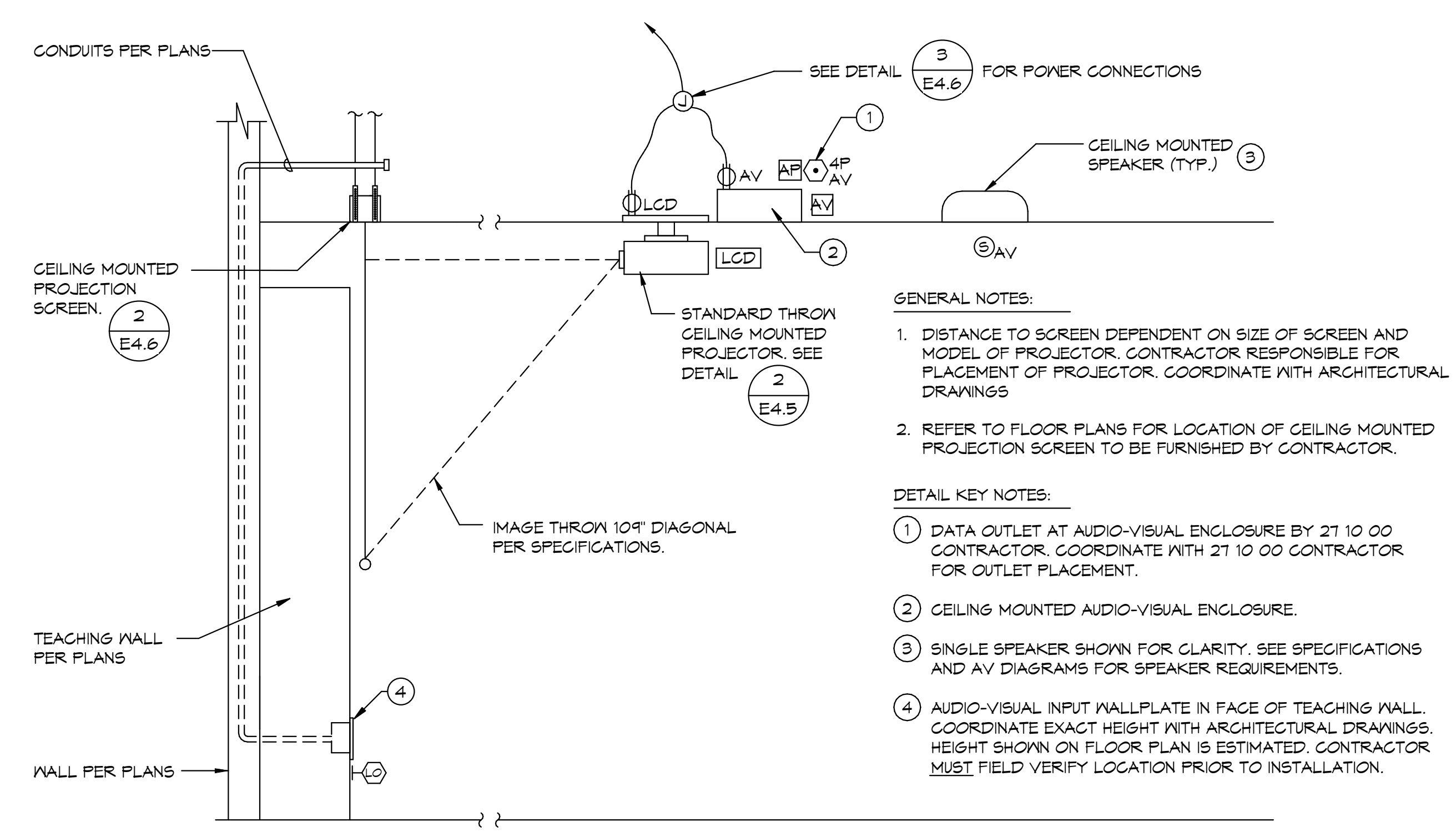


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**CLASSROOM
 AUDIO-VISUAL
 DETAILS**

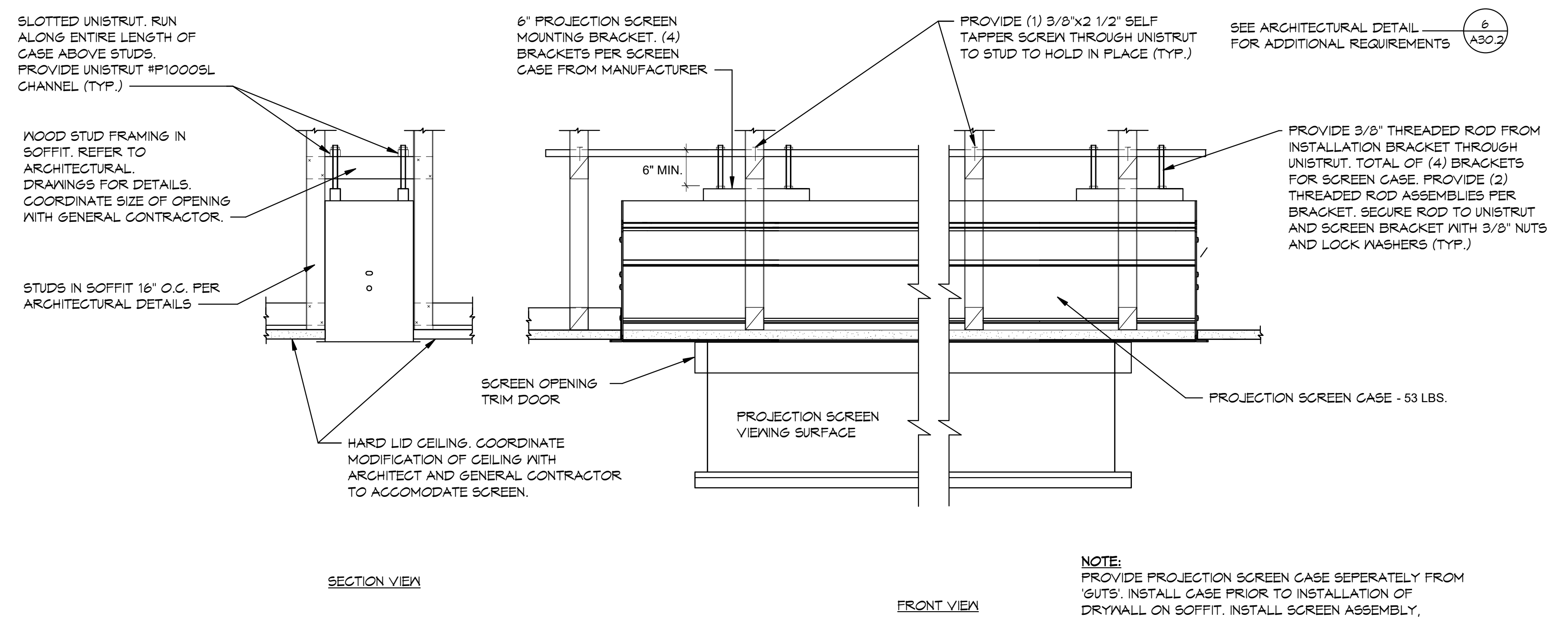
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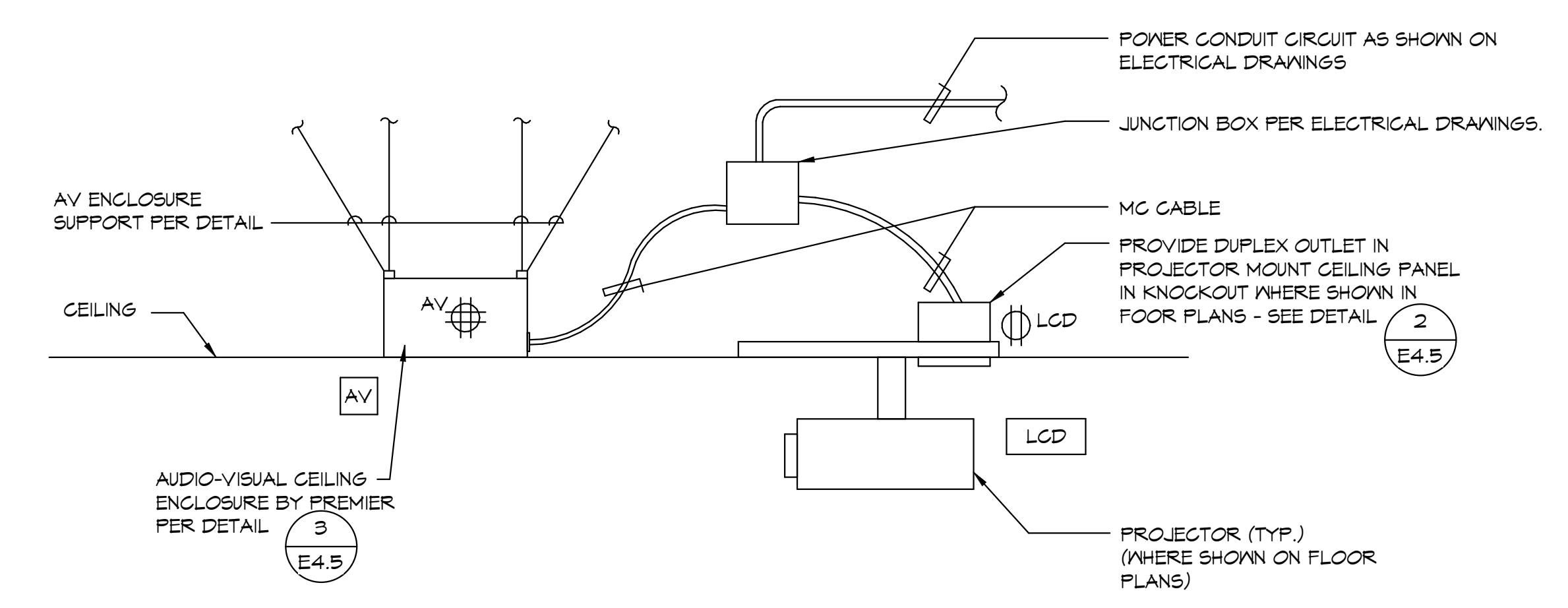
- GENERAL NOTES:
1. DISTANCE TO SCREEN DEPENDENT ON SIZE OF SCREEN AND MODEL OF PROJECTOR. CONTRACTOR RESPONSIBLE FOR PLACEMENT OF PROJECTOR. COORDINATE WITH ARCHITECTURAL DRAWINGS.
 2. REFER TO FLOOR PLANS FOR LOCATION OF CEILING MOUNTED PROJECTOR SCREEN TO BE FURNISHED BY CONTRACTOR.
- DETAIL KEY NOTES:
1. DATA OUTLET AT AUDIO-VISUAL ENCLOSURE BY 21 10 00 CONTRACTOR. COORDINATE WITH 21 10 00 CONTRACTOR FOR OUTLET PLACEMENT.
 2. CEILING MOUNTED AUDIO-VISUAL ENCLOSURE.
 3. SINGLE SPEAKER SHOWN FOR CLARITY. SEE SPECIFICATIONS AND AV DIAGRAMS FOR SPEAKER REQUIREMENTS.
 4. AUDIO-VISUAL INPUT WALL PLATE IN FACE OF TEACHING WALL. COORDINATE EXACT HEIGHT WITH ARCHITECTURAL DRAWINGS. HEIGHT SHOWN ON FLOOR PLAN IS ESTIMATED. CONTRACTOR MUST FIELD VERIFY LOCATION PRIOR TO INSTALLATION.

TYPICAL CEILING MOUNTED PROJECTOR INSTALLATION - ACCESSIBLE CEILINGS
 NO SCALE 1
E4.6



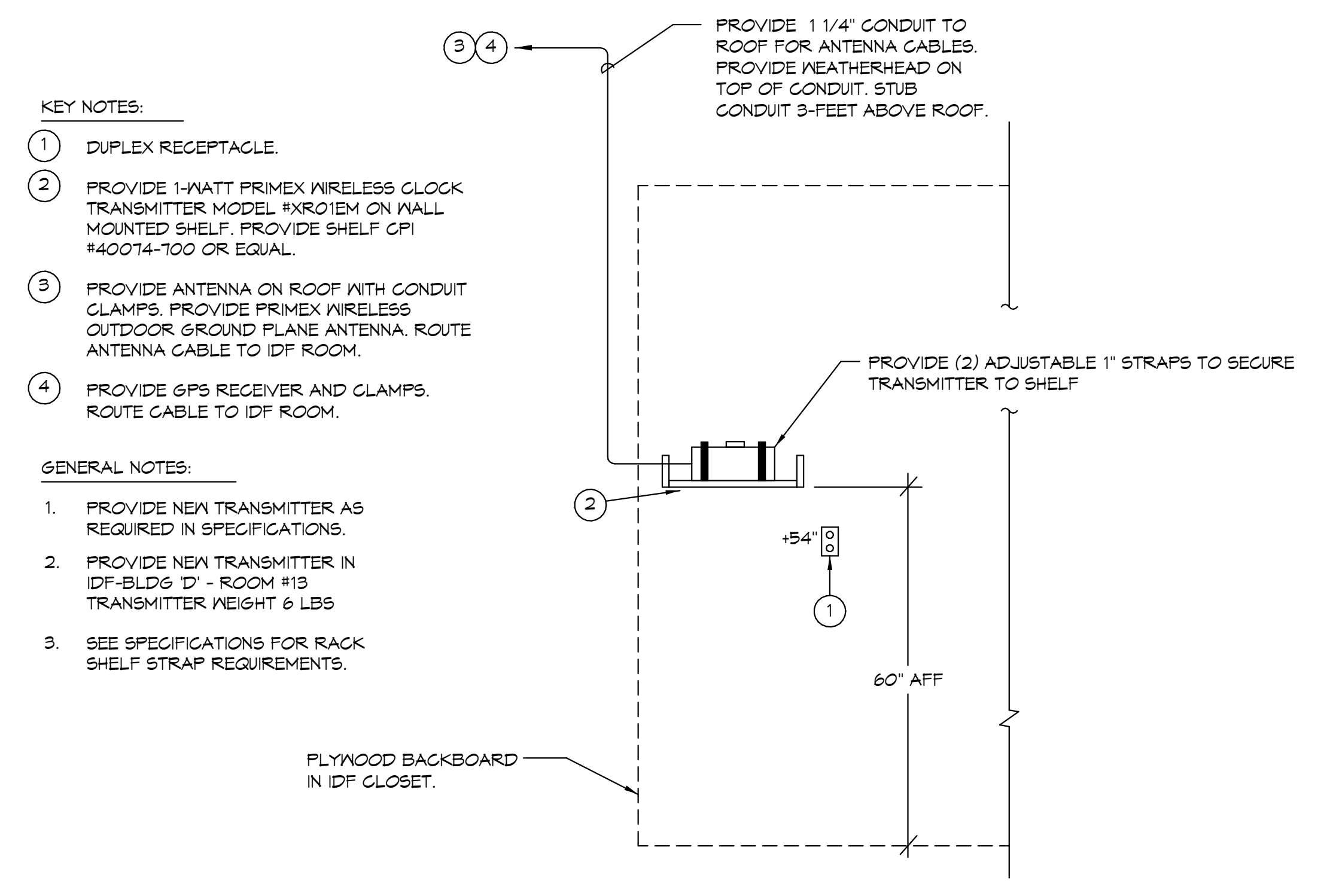
NOTE:
 PROVIDE PROJECTION SCREEN CASE SEPARATELY FROM 'GUTS'. INSTALL CASE PRIOR TO INSTALLATION OF DRYWALL ON SOFFIT. INSTALL SCREEN ASSEMBLY, MOTOR, AND LOW VOLTAGE CONTROLS IN CASE AFTER SOFFIT HAS BEEN FINISHED.

RECESSED TENSIONED PROJECTION SCREEN MOUNTING DETAILS
 NO SCALE 2
E4.6



- NOTES:
1. REFER TO ELECTRICAL AND COMMUNICATIONS FLOOR PLANS FOR LOCATIONS OF POWER AND AV DEVICES.
 2. PROVIDE UNISTRUT SUPPORT ABOVE AV CEILING ENCLOSURE TO STRUCTURAL SUPPORT MEMBERS. TIE 3/8" ROD INTO UNISTRUT FOR ENCLOSURE SUPPORT.

CEILING ENCLOSURE / PROJECTOR - POWER CONNECTION
 NO SCALE 3
E4.6

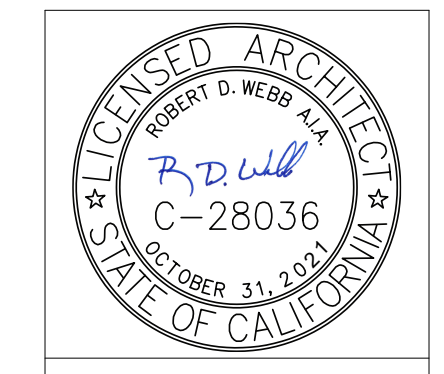


- KEY NOTES:
1. DUPLEX RECEPTACLE.
 2. PROVIDE 1-WATT PRIMEX WIRELESS CLOCK TRANSMITTER MODEL #KRO1EM ON WALL MOUNTED SHELF. PROVIDE SHELF GPI #40014-100 OR EQUAL.
 3. PROVIDE ANTENNA ON ROOF WITH CONDUIT CLAMPS. PROVIDE PRIMEX WIRELESS OUTDOOR GROUND PLANE ANTENNA. ROUTE ANTENNA CABLE TO IDF ROOM.
 4. PROVIDE GPS RECEIVER AND CLAMPS. ROUTE CABLE TO IDF ROOM.
- GENERAL NOTES:
1. PROVIDE NEW TRANSMITTER AS REQUIRED IN SPECIFICATIONS.
 2. PROVIDE NEW TRANSMITTER IN IDF-BLDG 'D' - ROOM #13. TRANSMITTER HEIGHT 6' LBS.
 3. SEE SPECIFICATIONS FOR RACK SHELF STRAP REQUIREMENTS.

WIRELESS CLOCK TRANSMITTER DETAIL
 NO SCALE 4
E4.6

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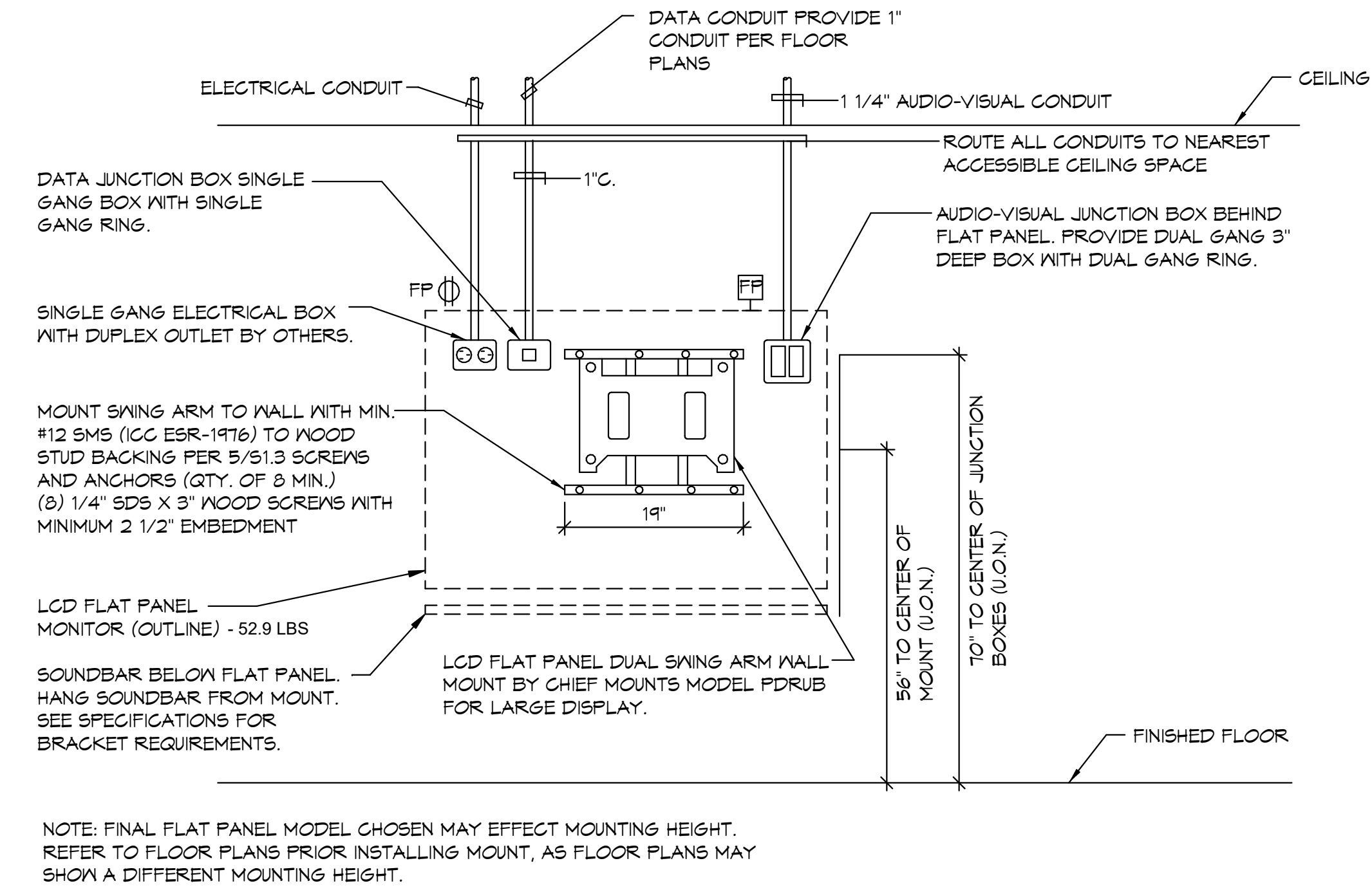
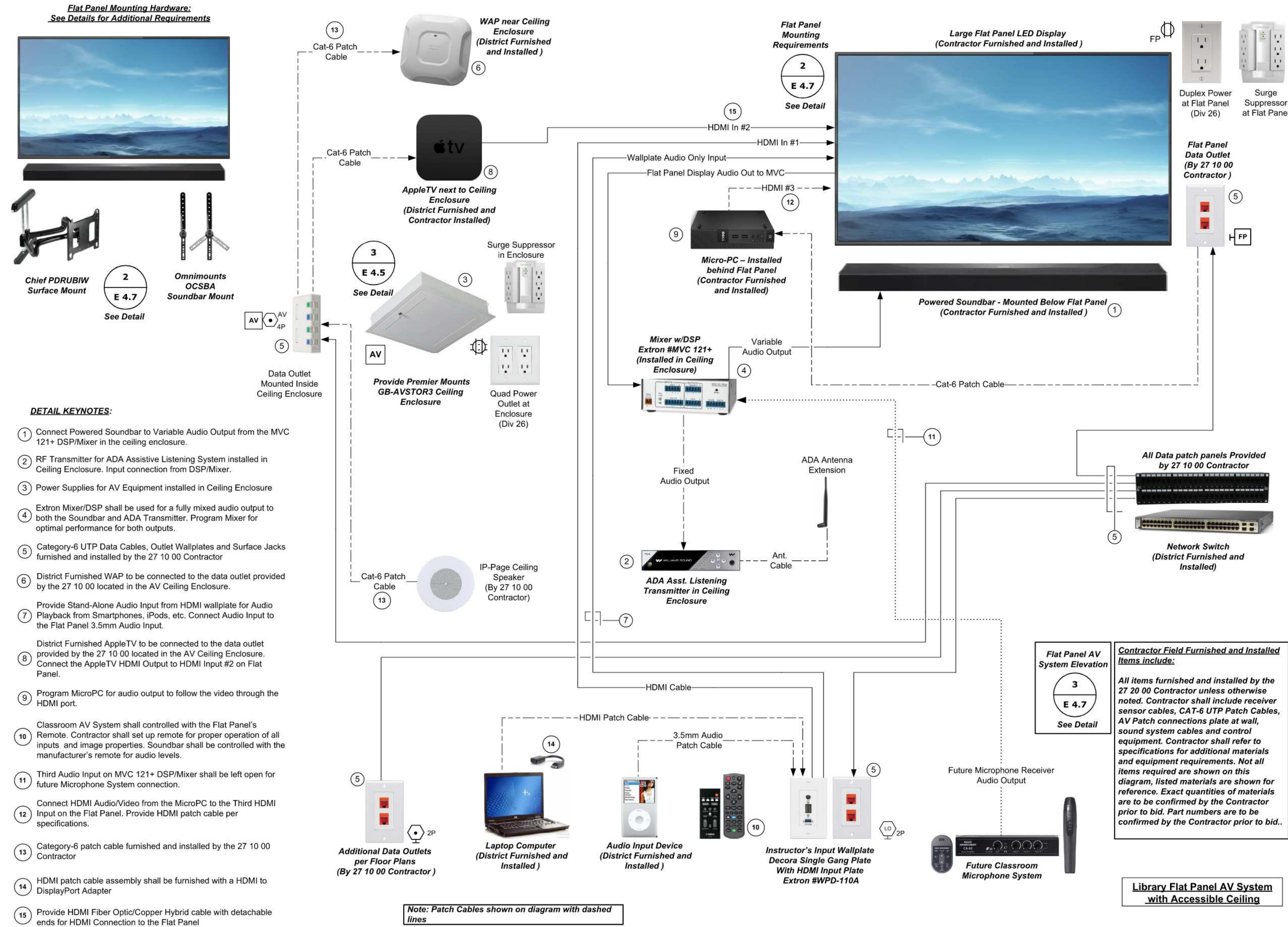
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 SANTEE SCHOOL DISTRICT

CLASSROOM AUDIO-VISUAL DETAILS

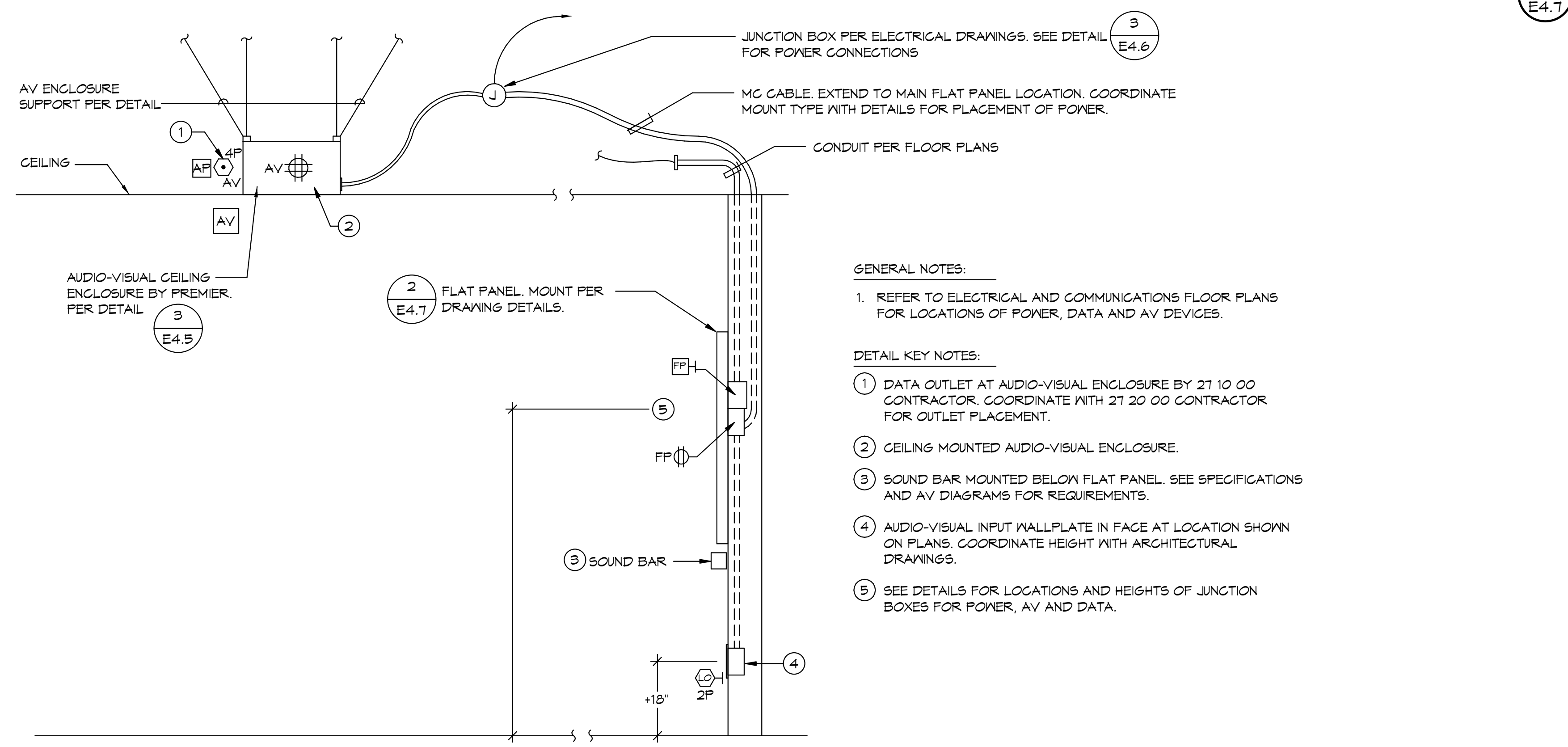
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Professional Engineer Seal for Robert D. Webb, No. E-28036, State of California, expires October 31, 2024.



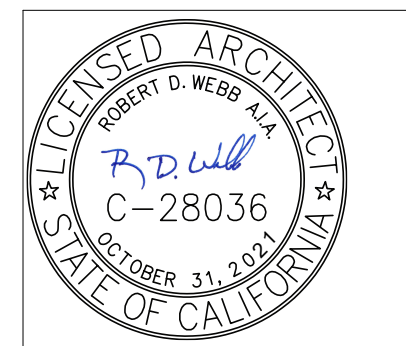
LIBRARY AUDIO-VISUAL SYSTEM DIAGRAM
 NO SCALE



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LIBRARY AUDIO-VISUAL DETAILS

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E4.7

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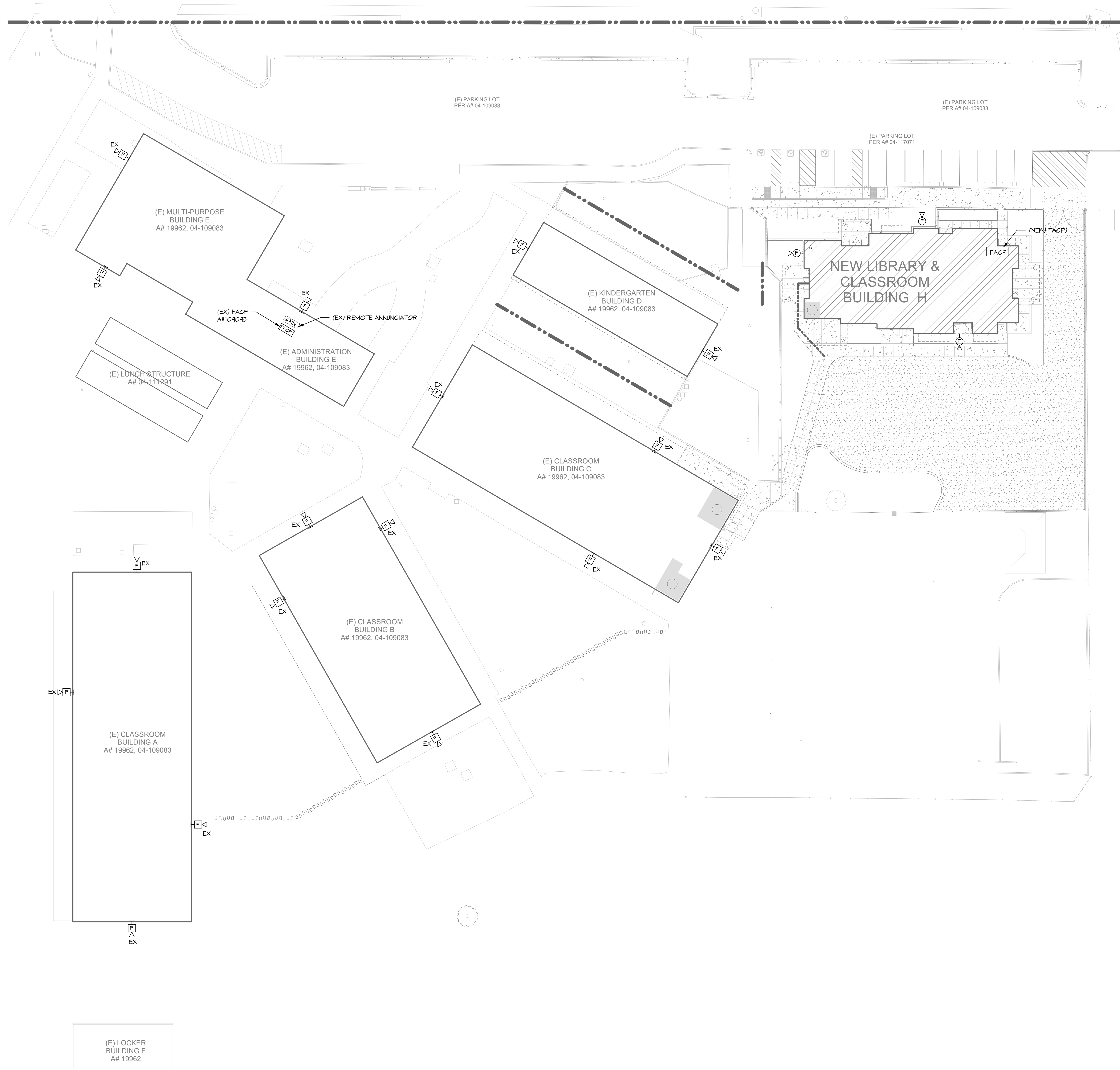
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REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 NO. E 14781
 Exp. 5-30-2021

1/21/2020 12:31:58 PM

- GENERAL NOTES:**
- LOCATIONS/ROUTING OF EXISTING/NEW EQUIPMENT IS APPROXIMATE ONLY.
 - PROVIDE DOCUMENTATION CABINET LOCATION PER NFPA 72.7.2.1 AND POSTED INSTRUCTIONS FOR MICROPHONE USE PER NFPA 72.24.3.2. IN ELECTRICAL ROOM #9 NEXT TO FACP.
- FIRE ALARM SYMBOLS LEGEND:**
- WALL MOUNTED WEATHERPROOF EXTERIOR SPEAKER MOUNTED +90" AFF TO BOTTOM OF DEVICE.

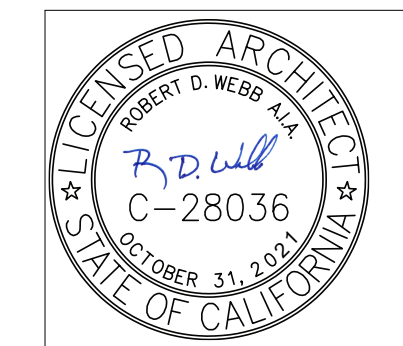


NORTHVIEW LANE

NORTHVIEW LANE

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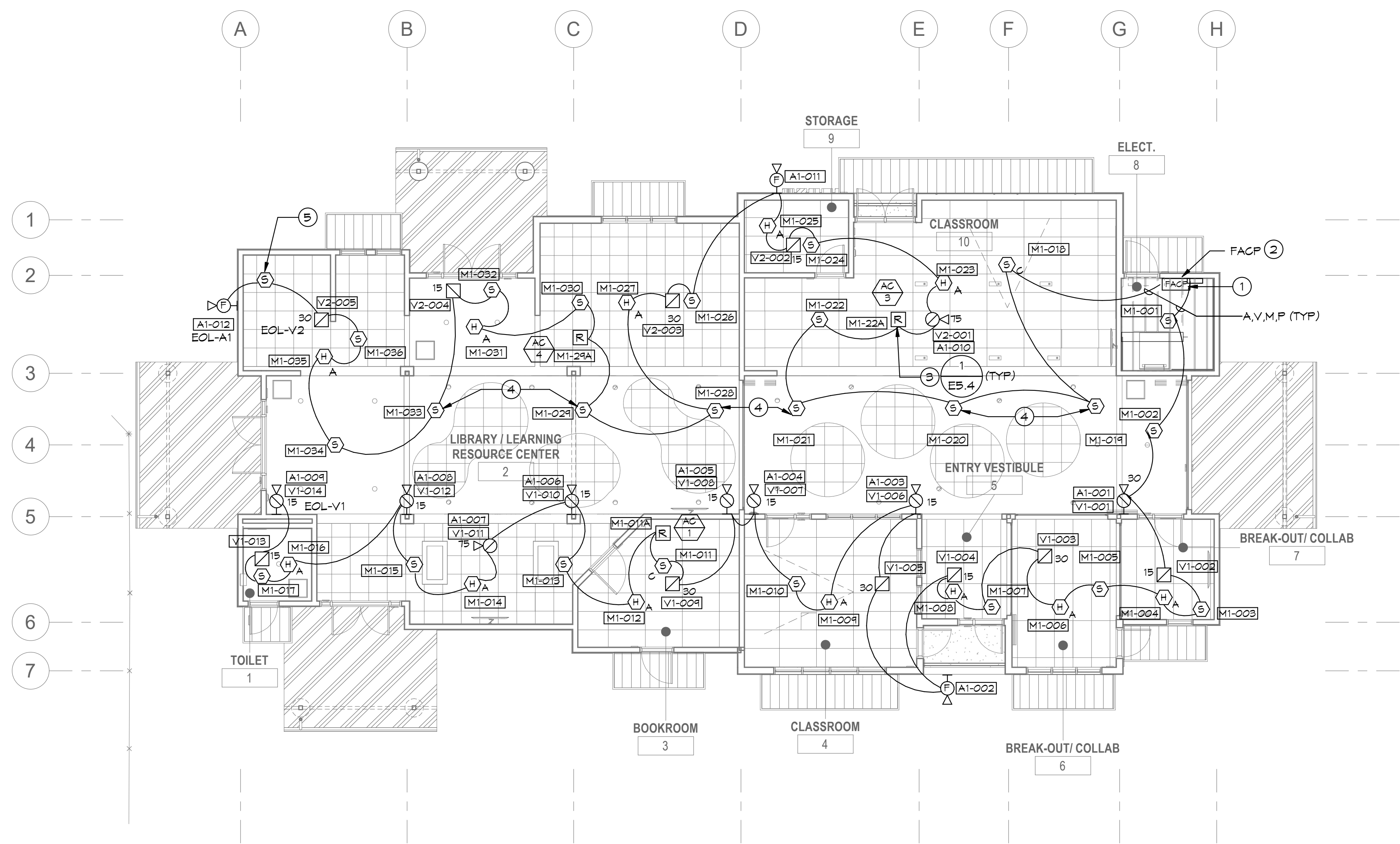
FIRE ALARM SITE PLAN
Drawn: Author: Checked: Checker: Date: AUGUST 27, 2019 Job: SSD-PA-03
E5.0

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REGISTERED PROFESSIONAL ENGINEER
 ROBERT D. WEBB
 NO. E 14781
 Exp. 5-30-2021
 ELECTRICAL
 STATE OF CALIFORNIA

- FIRE ALARM SYMBOLS LEGEND:**
 WALL MOUNTED SPEAKER/STROBE MOUNTED +80"-+86"
 A.F.F. OR 6" BELOW CEILING TO BOTTOM OF DEVICE
 WHICHEVER IS LOWER. ENTIRE LENS MUST BE WITHIN
 THE +80"-+86" DIMENSION.
 (15 = STROBE CANDELA RATINGS)
 (A) = AUDIO SIGNAL CIRCUIT IDENTIFICATION
 (VI = VISUAL SIGNAL CIRCUIT IDENTIFICATION)
 TAP AT 1/4 WATT (U.O.N.)
- VI**
 CEILING MOUNTED FLASHING LIGHT STROBE
 (15 = STROBE CANDELA RATINGS)
 (VI = VISUAL SIGNAL CIRCUIT IDENTIFICATION)
- VI**
 CEILING MOUNTED COMBINATION HORN/STROBE (15 =
 STROBE CANDELA RATINGS)
 (A) = AUDIO SIGNAL CIRCUIT IDENTIFICATION
 (VI = VISUAL SIGNAL CIRCUIT IDENTIFICATION)
 TAP AT 1/4 WATT (U.O.N.)
- AI**
 WALL MOUNTED WEATHERPROOF EXTERIOR SPEAKER
 MOUNTED +80" A.F.F. TO BOTTOM
 OF DEVICE (A) = AUDIO SIGNAL CIRCUIT
 IDENTIFICATION SEE TYPICAL DETAIL
- ⊕**
 CEILING MOUNTED SMOKE DETECTOR
- ⊕**
 CEILING MOUNTED CO/SMOKE DETECTOR
- ⊕**
 HEAT DETECTOR MOUNTED ABOVE CEILING (SEE
 GENERAL NOTE #6)
- FACP** MAIN FIRE ALARM CONTROL PANEL
- DSM** DUAL SYNC MODULE (SEE RISER DIAGRAM FOR LOCATION)
- R** ADDRESSABLE RELAY MODULE
- M** ADDRESSABLE MONITOR MODULE
- EOL-V END OF LINE RESISTOR AUDIO
 EOL-V END OF LINE RESISTOR VISUAL

- GENERAL NOTES:**
- REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
 - REFERENCE EB AND EB SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
 - REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND INITIATION ZONE CIRCUIT IDENTIFICATIONS.
 - REFERENCE MECHANICAL PLANS FOR EXACT LOCATION OF ALL DUCT DETECTORS AND SMOKE DAMPER LOCATIONS.
 - UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE 1" E.M.T. ROUTED CONCEALED ABOVE CEILING OR IN WALLS. DASHED LINES INDICATE 1 1/4" P.V.C. UNDERGROUND CONDUIT. ALL WIRING TO BE PROVIDED PER MANUFACTURER SHOP DRAWINGS.
 - CONTRACTOR SHALL PROVIDE CEILING ACCESS PANEL AT ALL NON-LAYIN TYPE CEILINGS, WHERE HEAT DETECTOR ABOVE CEILING IS INDICATED.
 - PROVIDE WIRE PROTECTIVE GUARD OVER ALL FIRE ALARM DEVICES LOCATED IN THE FOLLOWING AREAS: GYMNASIUM, LOCKER ROOMS, SHOP AREAS, AND ANY OTHER AREA WHERE DEVICES MAY BE SUBJECT TO CONTACT.
- KEY NOTES:**
- PROVIDE DEDICATED 120 VOLT CIRCUIT TO PANEL CONNECT TO "LOCK ON BREAKER". REFER TO POWER EB SERIES SHEETS FOR CIRCUIT INFORMATION.
 - PROVIDE CONNECTION TO (EX) "FACP". REFER TO SITE PLAN SHEET E1.1.
 - MAKE CONNECTION TO AIR CONDITIONING CONTROL CIRCUIT FOR AUTOMATIC SHUT OFF OF UNIT UPON SMOKE DETECTION VERIFY LOCATION.
 - SMOKE DETECTOR TO BE LOCATED WITHIN 36" OF THE HIGH SIDE OF THE CEILING.
 - SMOKE DETECTOR UNDERNEATH RAISE FLOOR.



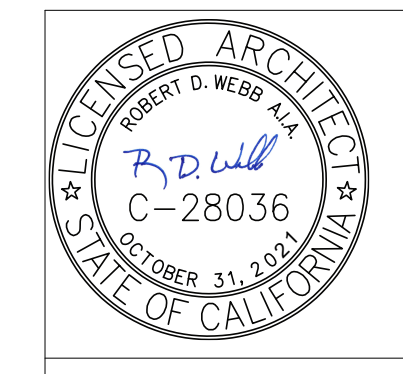
FIRE ALARM NOTE:
 THIS FIRE ALARM DESIGN IS A COMPLETE PLAN SUBMITTAL
 IN ACCORDANCE WITH 2016 CBC 907.1.

FULLY AUTOMATIC FIRE ALARM DESIGN:
 THIS PROJECT IS DESIGNED TO COMPLY WITH ALL
 REQUIREMENTS FOR A FULLY PROTECTED AUTOMATIC
 FIRE ALARM SYSTEM.

EXPANSION OF EXISTING SYSTEM:
 THIS PROJECT ADDS TO AND OR MODIFIES AN EXISTING
 SYSTEM, PREVIOUSLY APPROVED BY DSA. ALL NEW
 COMPONENTS ARE COMPATIBLE WITH THE EXISTING
 SYSTEM EQUIPMENT.

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LEVEL 1 FLOOR
 PLAN - FIRE ALARM

Drawn:
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E5.1

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FCI MODEL E3				
SYM	MODEL NO.	DESCRIPTION	C.S.F.M. LISTING	MFG.
FA	FCI-E3	FIRE ALARM CONTROL PANEL/VOICE EVAC	7165-1703.0125	GAMEWELL FCI
SM	SERIES DMS	SYNC MODULE	7300-0785.0132	COOPER WHELLOCK
SC	MCS-COF	INTELLIGENT SMOKE /CO DETECTOR	7275-1703.0175	GAMEWELL FCI
	B200S	SENSOR SOUNDER BASE	7300-1653.0213	SYSTEM SENSOR
	ASD-PL2F	INTELLIGENT SMOKE DETECTOR	7272-1703.0121	GAMEWELL FCI
	B210LP	SENSOR BASE	7300-1653.0109	SYSTEM SENSOR
			7300-1653.0109	SYSTEM SENSOR
HA	ATD-HL2F	INTELLIGENT HEAT DETECTOR (ABOVE CEILING)	7270-1703.0115	GAMEWELL FCI
	B501	SENSOR BASE	7300-1653.0109	SYSTEM SENSOR
H-D	ET1010	EXTERIOR SPEAKER W/WBB BACKBOX	7320-0785.0105	COOPER WHELLOCK
	LSTC	STROBE (15/30/75/110) cd (CEIL MNT)	7125-0785.0180	COOPER WHELLOCK
	LSPSTC	SPEAKER/STROBE - CEILING	7125-0785.0178	COOPER WHELLOCK
	LSPST	SPEAKER/STROBE - WALL	7125-0785.0175	COOPER WHELLOCK
M	AMM-2F	ADDRESSABLE MONITOR MODULE	7300-1703.0102	GAMEWELL FCI
R	AOM-2RF	ADDRESSABLE RELAY MODULE	7300-1703.0102	GAMEWELL FCI
	RIC-1	120 VOLT RELAY MODULE	7300-1004.0101	SAE INC
	TYPE FPL	SIGNAL LINE CIRCUIT CONDUCTORS (M)	7161-0859.0101	WEST PENN
	TYPE THHN	AUDIO VISUAL AND POWER CONDUCTORS (AV/P)	N/A	SOUTHWIRE

* IF OTHER MANUFACTURER IS USED IT IS TO BE UL AND CSFM LISTED.

FIRE ALARM MONITORING NOTE:

1. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC SECTION 4071. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UL/FX OR UL/S BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

FIRE ALARM GENERAL REQUIREMENTS:

1. THE COMPLETE INSTALLATION SHALL BE REVIEWED AND APPROVED BY THE ABOVE LOCAL MANUFACTURERS REPRESENTATIVE. SEE SPECIFICATIONS (28 30 00), FOR ADDITIONAL CONTRACTOR QUALIFICATIONS AND REQUIREMENTS.
2. UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE 1" E.M.T. ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS. DASHED LINES INDICATE 1 1/4" P.V.C. UNDERGROUND CONDUIT. ALL WIRING TYPES AND QUANTITIES SHOWN ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE ALL WIRING AS REQUIRED TO MAKE A FULLY OPERATIONAL SYSTEM. SHOP DRAWINGS AND OR AS-BUILT DOCUMENTS SHALL INDICATE ALL WIRING PROVIDED.
3. THE AUDIBILITY OF FIRE ALARM WARNING DEVICES SHALL BE AUDIBLE THROUGH THE OCCUPANCY WITH A MINIMAL SOUND LEVEL 15 db% OVER THE AMBIENT NOISE LEVEL. ADD ADDITIONAL DEVICES AS REQUIRED.
4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A REACCEPTANCE TEST OF THE ENTIRE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE ENFORCING AGENCY AND IN ACCORDANCE WITH SPECIFICATIONS (28 30 00). THE CONTRACTOR SHALL FURNISH db METERS AND ALL OTHER EQUIPMENT TO PERFORM THESE TESTS.
5. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL PREVENT THE PASSAGE OF HEAT, SMOKE AND FIRE GASES. ALL PENETRATIONS SHALL COMPLY WITH U.L. ASSEMBLY VL-1001. REFER TO THROUGH-PENETRATION FIRESTOP DETAIL ON THE DETAIL SHEET.
6. ALL OPERATING HARDWARE AT INITIATING DEVICES SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST, AND THE FORCE REQUIRED TO OPERATE SHALL BE LESS THAN 5 POUNDS.

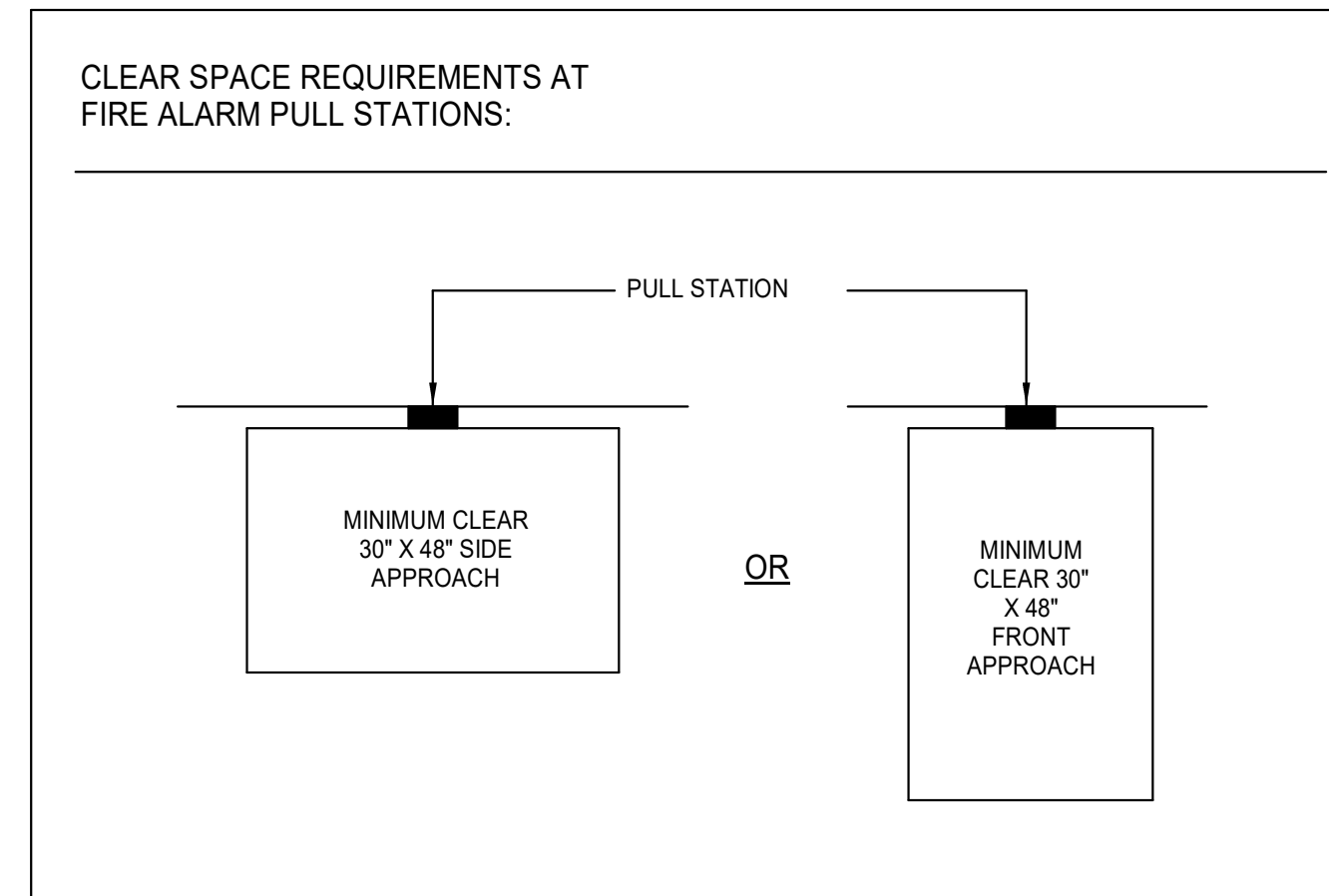
APPLICABLE CODES

SEE T1.1 FOR ALL APPLICABLE CODES

APPLICABLE STANDARDS

SEE T1.1 FOR ALL APPLICABLE STANDARDS

WIRING SCHEDULE			
DES	CONDUCTOR TYPE	WIRE COLOR	CIRCUIT TYPE
M	(1) 1 PR #14 TWISTED SHIELDED	RED/BLACK/SHEILD	SIGNAL LINE CIRCUIT
A	(2) #12 THHN (UON ON CALCS)	BLUE/WHITE	NOTIFICATION APP. CIRCUIT (NAC)
V	(2) #12 THHN (UON ON CALCS)	GREEN/BLUE	NOTIFICATION APP. CIRCUIT (NAC)
P	(2) #12 THHN	RED/BLACK	POWER



ANNUNCIATOR ZONE SCHEDULE				
	ROOM SMOKE/CO OR HEAT DETECTORS	ABOVE CEILING HEAT DETECTORS	SPRINKLER SYSTEM	TROUBLE INDICATION
BLDG. SCE	YES	YES	N/A	YES

NOTES:

1. ALL SMOKE DETECTORS/CO DETECTORS, HEAT DETECTORS ABOVE CEILING DETECTORS, DUCT DETECTORS MANUAL PULL STATIONS, FLOW SWITCHES, TAMPER SWITCHES SHALL BE INDIVIDUALLY ADDRESSABLE.
2. EXISTING ANNUNCIATOR LOCATED IN BUILDING 'C' WHICH WILL PROVIDE LED LIGHT INDICATORS TO IDENTIFY THE ABOVE ZONE SCHEDULE.

MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF CONDUIT OR TUBING - MINIMUM CONDUIT SIZE FOR THIS PROJECT IS 3/4"											
CONDUIT TRADE SIZE (INCHES)	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5
TYPE LETTERS											
THWN	14	13	24	30	69	94	154	164			
THHN	10	6	11	19	32	44	73	104	160	106	136

AREA—SQUARE INCHES											
TRADE SIZE	INTERNAL DIAMETER INCHES	PERCENT REDUCTION PER NUMBER OF 18AWG TWISTED SHIELD PAIRS									
		100% INCHES	OVER 2 INCHES	1	2	3	4	5	6	7	8
1/2	.622	.30	.12	38%	66%	99%	X	X	X	X	X
3/4	.824	.53	.21	19%	38%	57%	76%	95%	X	X	X
1	1.049	.86	.34	12%	24%	36%	48%	60%	72%	84%	96%
1 1/4	1.360	1.50	.60	7%	14%	21%	28%	35%	42%	49%	56%
1 1/2	1.610	2.04	.82	5%	10%	15%	20%	25%	30%	35%	40%
2	2.067	3.36	1.34	3%	6%	9%	12%	15%	18%	21%	24%

FIRE ALARM SEQUENCE OF OPERATION			
ACTION	DEVICE	MANUAL PULL STATION	AC POWER FAILURE
SOUND ALARM THROUGHOUT BLDG.		YES	YES
ACTIVATE RELAY FOR MONITORING		YES	YES
ANNUNCIATE AT PANEL AND ANNUNCIATOR		YES	YES
SOUND TROUBLE BUZZER		ON WIRING FAULT	ON WIRING FAULT
REPORT TO MONITORING STATION		YES	YES
INITIATE SHUTDOWN OF HVAC UNITS		YES	YES

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Professional Engineer
 Robert D. Weir
 No. E 14781
 Exp. 6-30-2021
 STATE OF CALIFORNIA

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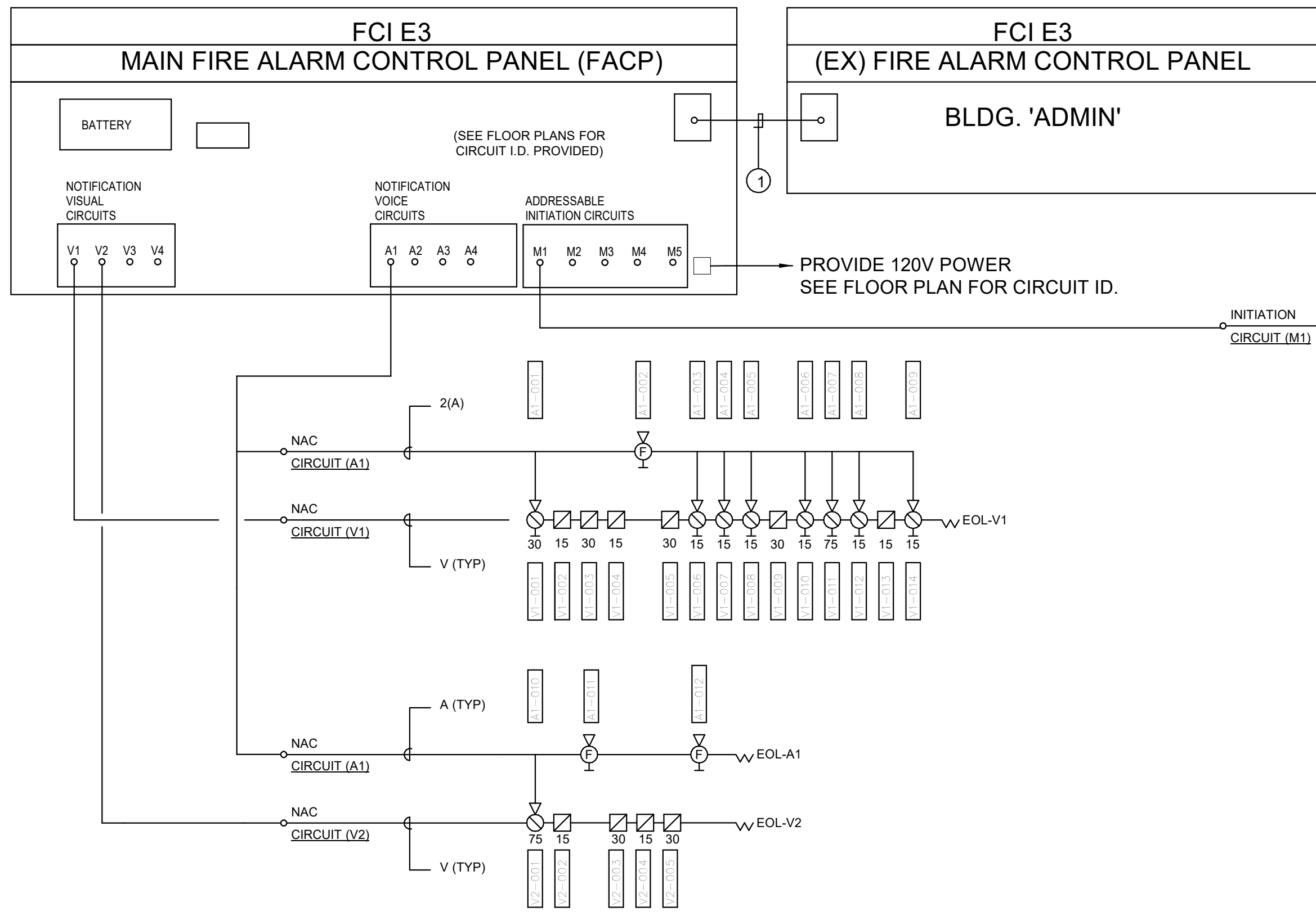
REGISTERED ARCHITECT
 ROBERT D. WEIR
 C-28036
 EXPIRES 31.12.2021
 STATE OF CALIFORNIA

PROSPECT AVENUE ELEMENTARY
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FIRE ALARM SCHEDULE

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- GENERAL NOTES:**
- ALL WIRING INDICATED IS FOR GENERAL REFERENCE ONLY. CONTRACTOR SHALL PROVIDE ALL WIRING AND COMPONENTS NEEDED TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.
 - REFERENCE FLOOR PLANS FOR EXACT QUANTITY, TYPE, AND LOCATION OF ALL DEVICES.
 - PROVIDE ALL SOFTWARE AND PROGRAMMING FOR A COMPLETE SYSTEM.

KEYNOTES

① FIRE ALARM FIBER NETWORK

Main Fire Alarm Control Panel FACP FCI E3 Battery Calculations Building ' LRC ' (FACP)

Type of Device Or Equipment	Standby Amperage			Alarm Amperage		
	Qty	Current	Total	Quantity	Current	Total
Control Panel Devices :						
INV-VG	1	0.1500	0.1500	1	0.1500	0.1500
AMS-16	1	0.0110	0.0110	1	0.0110	0.0110
AA SERIES AMP	1	0.3060	0.3060	1	1.8500	1.8500
ANU-48	1	0.0110	0.0110	1	0.0110	0.0110
LI-E3 SERIES	1	0.0810	0.0810	1	0.1500	0.1500
Signal Line Circuit Devices:						
Smoke Detector	25	0.0003	0.0083	25	0.0065	0.1625
Heat Detector	12	0.0002	0.0024	12	0.0065	0.0780
Relay Module	3	0.0003	0.0009	3	0.0003	0.0009
Monitor Module	0	0.0004	0.0000	0	0.0070	0.0000
Remote Annunciator	0	0.0300	0.0000	0	0.0650	0.0000
Beam Detector (REC. & TRANS)	0	0.0040	0.0000	0	0.0150	0.0000
Extender Panel (NAC)	0	0.0880	0.0000	0	0.1950	0.0000
Pull Station	0	0.0003	0.0000	0	0.0000	0.0000
Smoke/CO Detector	2	0.0005	0.0010	2	0.0350	0.0700
Dual Sync Module	2	0.0350	0.0700	2	0.0350	0.0700
15cd Wall Speaker/Strobe	6	0.0300	0.1800	6	0.0300	0.1800
30cd Wall Speaker/Strobe	1	0.0400	0.0400	1	0.0400	0.0400
75cd Wall Speaker/Strobe	1	0.1150	0.1150	1	0.1150	0.1150
110cd Wall Speaker/Strobe	0	0.2000	0.0000	0	0.2000	0.0000
135cd Wall Strobe	0	0.2050	0.0000	0	0.2050	0.0000
185cd Wall Strobe	0	0.2530	0.0000	0	0.2530	0.0000
15cd (Ceiling) Speaker/Strobe	5	0.0400	0.2000	5	0.0400	0.2000
30cd (Ceiling) Speaker/Strobe	0	0.0580	0.0000	0	0.0580	0.0000
75cd (Ceiling) Strobe	0	0.1550	0.0000	0	0.1550	0.0000
95cd (Ceiling) Strobe	0	0.2580	0.0000	0	0.2580	0.0000
Exterior Speaker @ 2 watt tap	3	0.02857	0.0857	3	0.02857	0.0857
Speaker only @ 1/4 watt tap	0	0.00357	0.0000	0	0.00357	0.0000
Speaker only @ 2 watt tap	0	0.02857	0.0000	0	0.02857	0.0000
Total Standby Amperage		0.670		Total Alarm Amperage		3.619

Standby Time Required					
24 Hours x Total Standby Amperage =	24 x 0.670	=	16.083	Amp Hours	
Alarm Time Required					
.25 (15 Min.) x Total Alarm Amperage =	0.25 x 3.619	=	0.905	Amp Hours	
Total Required		=	16.988	Amp Hours	
Provide Battery & Minimum Battery Amp Hour Required		=	30	Amp Hours	

Fire Alarm Voltage Drop Calculations

Calculation Formula: $V_{drop} = \frac{2 \times I \times L \times K}{1000}$ (Voltage Drop)

Total Current x Feet x 21.6 (Voltage Drop)

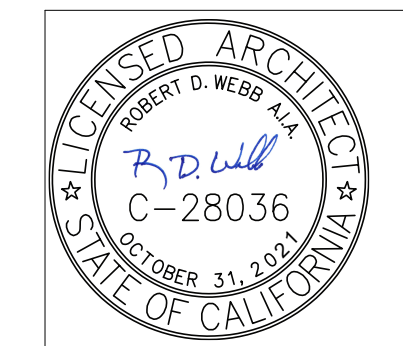
Voltage Drop / 24 Volts x 100 Percent = Percentage Voltage Drop

Device Type	Circuit: V1.A1		Circuit: V2.A2		Circuit: 0		Circuit: 0	
	Devices x Current	Total Current	Devices x Current	Total Current	Devices x Current	Total Current	Devices x Current	Total Current
Exterior Speaker @ 2 watt tap	1 x 0.02857	0.029	2 x 0.02857	0.057	0 x 0.02857	0.000	0 x 0.02857	0.000
Dual Sync Module	1 x 0.035	0.035	1 x 0.035	0.035	0 x 0.035	0.000	0 x 0.035	0.000
15cd Wall Speaker/Strobe	6 x 0.030	0.180	0 x 0.030	0.000	0 x 0.030	0.000	0 x 0.030	0.000
30cd Wall Speaker/Strobe	1 x 0.040	0.040	0 x 0.040	0.000	0 x 0.040	0.000	0 x 0.040	0.000
75cd Wall Speaker/Strobe	1 x 0.115	0.115	0 x 0.115	0.000	0 x 0.115	0.000	0 x 0.115	0.000
110cd Wall Speaker/Strobe	0 x 0.200	0.000	0 x 0.200	0.000	0 x 0.200	0.000	0 x 0.200	0.000
135cd Wall Strobe	0 x 0.000	0.000	0 x 0.000	0.000	0 x 0.000	0.000	0 x 0.000	0.000
185cd Wall Strobe	0 x 0.000	0.000	0 x 0.000	0.000	0 x 0.000	0.000	0 x 0.000	0.000
15cd (Ceiling) Speaker/Strobe	0 x 0.040	0.000	0 x 0.040	0.000	0 x 0.040	0.000	0 x 0.040	0.000
30cd (Ceiling) Speaker/Strobe	0 x 0.058	0.000	0 x 0.058	0.000	0 x 0.058	0.000	0 x 0.058	0.000
75cd (Ceiling) Strobe	0 x 0.155	0.000	1 x 0.155	0.155	0 x 0.155	0.000	0 x 0.155	0.000
95cd (Ceiling) Strobe	0 x 0.258	0.000	0 x 0.258	0.000	0 x 0.258	0.000	0 x 0.258	0.000
Exterior Speaker @ 2 watt tap	3 x 0.02857	0.0857	2 x 0.02857	0.057	0 x 0.02857	0.000	0 x 0.02857	0.000
Speaker only @ 1/4 watt tap	0 x 0.00357	0.000	0 x 0.00357	0.000	0 x 0.00357	0.000	0 x 0.00357	0.000
Speaker only @ 2 watt tap	0 x 0.02857	0.000	0 x 0.02857	0.000	0 x 0.02857	0.000	0 x 0.02857	0.000
Total		0.693	Total	0.443	Total	0.000	Total	0.000
Circuit Length:	360		260		0		0	
Circuit mils:	6530		6530		6530		6530	
Volts dropped:	0.82		0.38		0.00		0.00	
Percent voltage drop:	3.44%		1.59%		0.00%		0.00%	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-118742 INC.
REVIEWED FOR
SS [] FLS [] ACS []
DATE: 02.05.20

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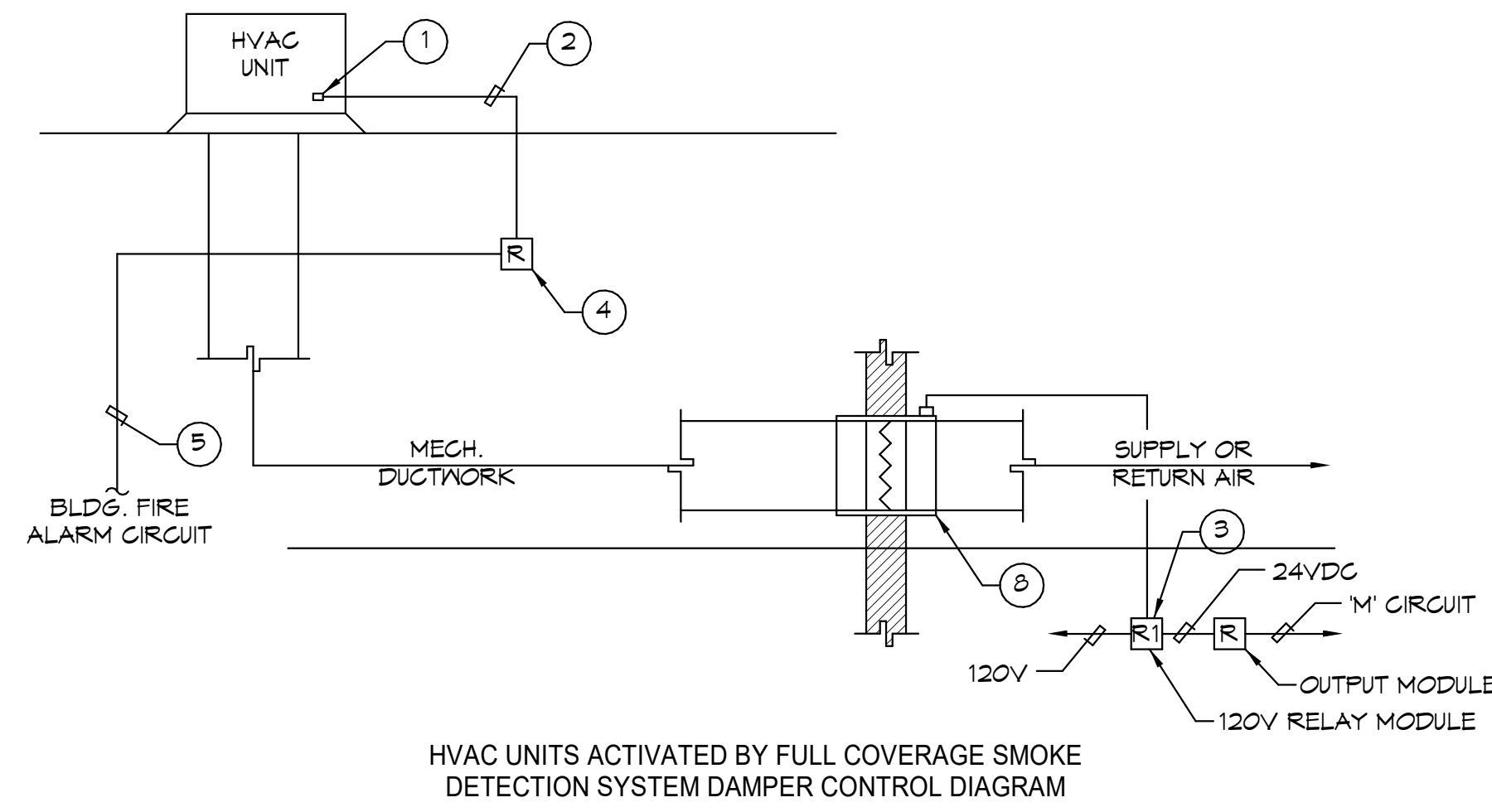
PROSPECT AVENUE ELEMENTARY SCHOOL
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FIRE ALARM RISER AND CALCULATIONS

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Author:
Checked:
Checker:
Date:
AUGUST 27, 2019
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E5.3

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KEY NOTES:

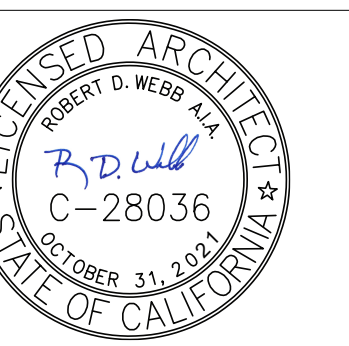
- ① ALL A/G UNITS SHALL SHUT DOWN, WHETHER IN HEATING OR COOLING MODE, UPON ACTIVATION OF ANY FIRE ALARM DEVICE IN THE BUILDING INCLUDING SMOKE/HEAT DETECTORS, MANUAL STATIONS, DUCT DETECTORS, AREA DETECTORS, CONTROLLING SMOKE DAMPERS, SPRINKLER ACTIVATION. 45 SECONDS AFTER THE A/G UNITS HAVE BEEN SHUT DOWN, ALL SMOKE DAMPERS SHALL CLOSE.
- ② 1/2" CONDUIT PROVIDED BY (ELECTRICAL) WITH CONTROL WIRING PROVIDED BY (FIRE ALARM). FINAL CONNECTIONS TO A/G UNIT BY (MECHANICAL) AND ALL CONNECTIONS AT FIRE ALARM DEVICES BY (FIRE ALARM) CONTRACTOR.
- ③ FIRE ALARM CONTROL MODULE MOUNTED AT FAGP OR FA PANELS, BOXES AND INTERCONNECTING CONDUITS BY (ELECTRICAL) CONTRACTOR. WIRING BY (FIRE ALARM) CONTRACTOR.
- ④ FIRE ALARM CONTROL MODULE MOUNTED TO J-BOX ADJACENT TO A/G UNIT, BOXES AND INTERCONNECTING CONDUITS BY (ELECTRICAL) CONTRACTOR. WIRING BY (FIRE ALARM) CONTRACTOR.
- ⑤ 1/2" CONDUIT PROVIDED BY (ELECTRICAL) WITH CONTROL WIRING PROVIDED BY (FIRE ALARM) CONTRACTOR.
- ⑥ SMOKE DETECTOR WITH 24V AUXILIARY CONTROL CONTACT INSTALL IN DUCT DETECTOR HOUSING BY (FIRE ALARM) CONTRACTOR.
- ⑦ DUCT DETECTOR HOUSING AND SAMPLING TUBES FURNISHED BY (FIRE ALARM) CONTRACTOR AND INSTALLED BY (MECHANICAL) CONTRACTOR. SAMPLING TUBES SHALL BE SIZED TO MATCH THE DUCT SIZE AND CFM RATING.
- ⑧ SMOKE/FIRE DAMPER BY (MECHANICAL).

DAMPER/HVAC UNIT FIRE ALARM CONTROL DIAGRAM
NO SCALE

1
EB-4

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FIRE ALARM
DETAILS

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Date:	AUGUST 27, 2019
Job:	SSD-PA-03
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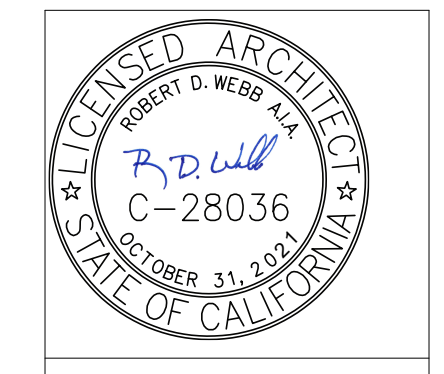
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- GENERAL NOTES:**
1. REFERENCE MECHANICAL PLANS FOR EXACT EQUIPMENT LOCATIONS PRIOR TO ROUGH-IN.
 2. DASHED EQUIPMENT INDICATES THAT EQUIPMENT IS LOCATED WITHIN CEILING SPACE. ALL OTHER EQUIPMENT IS ROOF MOUNTED (U.O.N.).
 3. ALL CONDUIT FEEDERS TO ROOF MOUNTED EQUIPMENT SHALL BE RUN CONCEALED IN CEILING SPACE WHERE EQUIPMENT CURBS ARE PROVIDED. ROUTE FEEDER UP THROUGH CURB TO EQUIPMENT DISCONNECT.
 4. REFERENCE SHEET E6 SERIES MECHANICAL EQUIPMENT SCHEDULE FOR CONDUIT, WIRE AND DISCONNECT REQUIREMENTS.
 5. REFERENCE E5 SERIES SHEETS FOR UNITS WHICH REQUIRE DUCT TYPE SMOKE DETECTOR CONNECTIONS.

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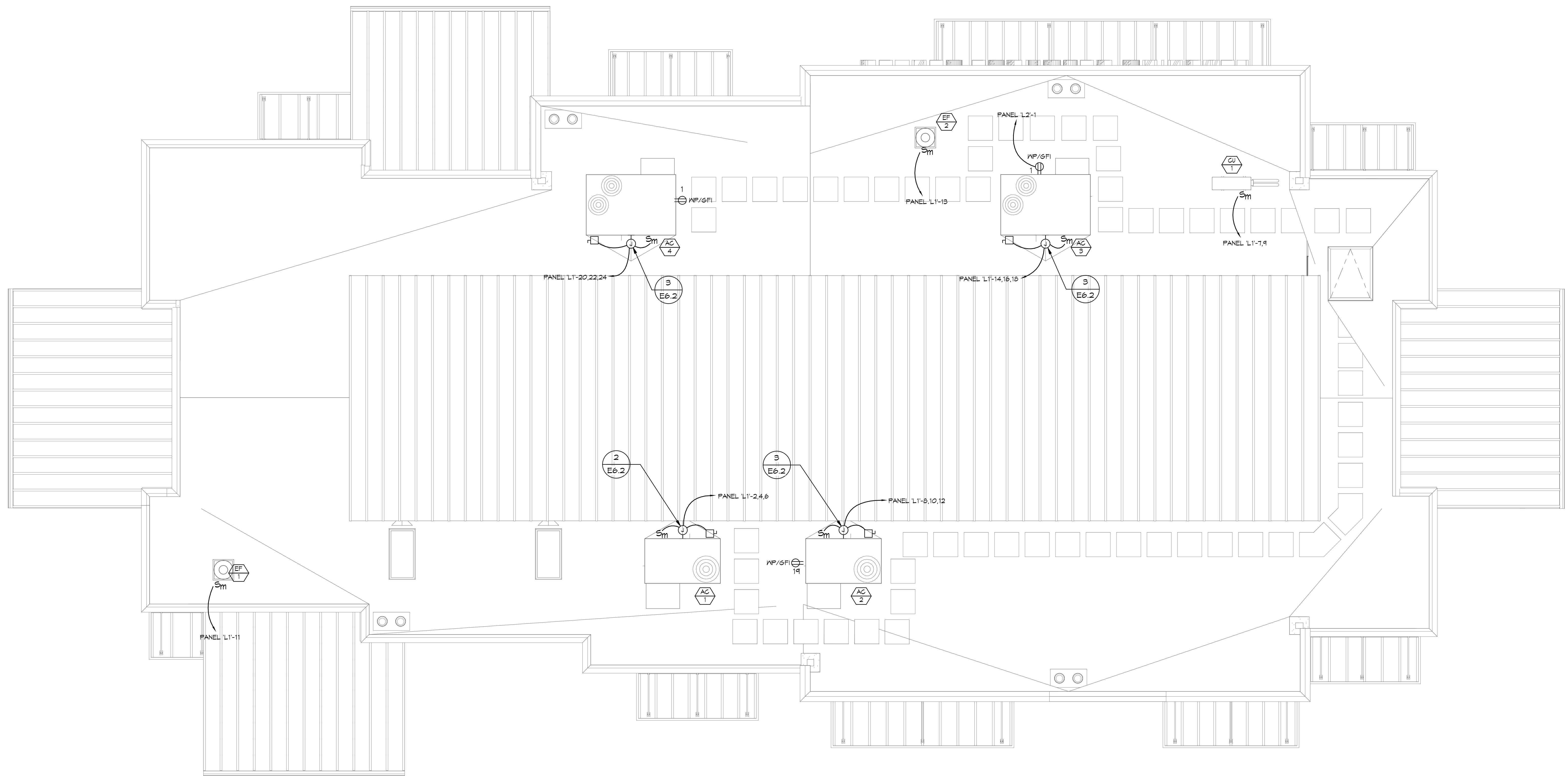


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ROOF PLAN

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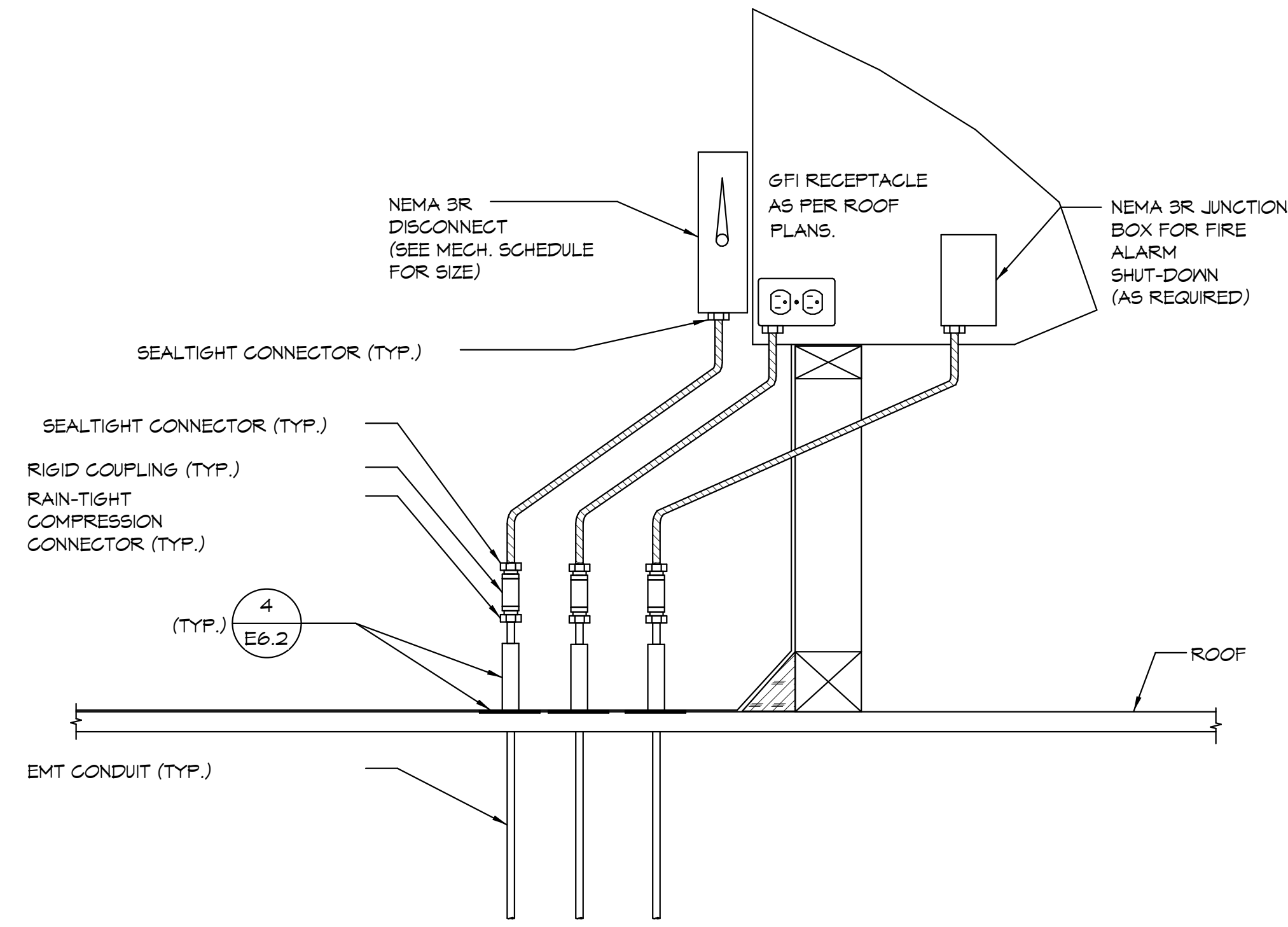
E6.1



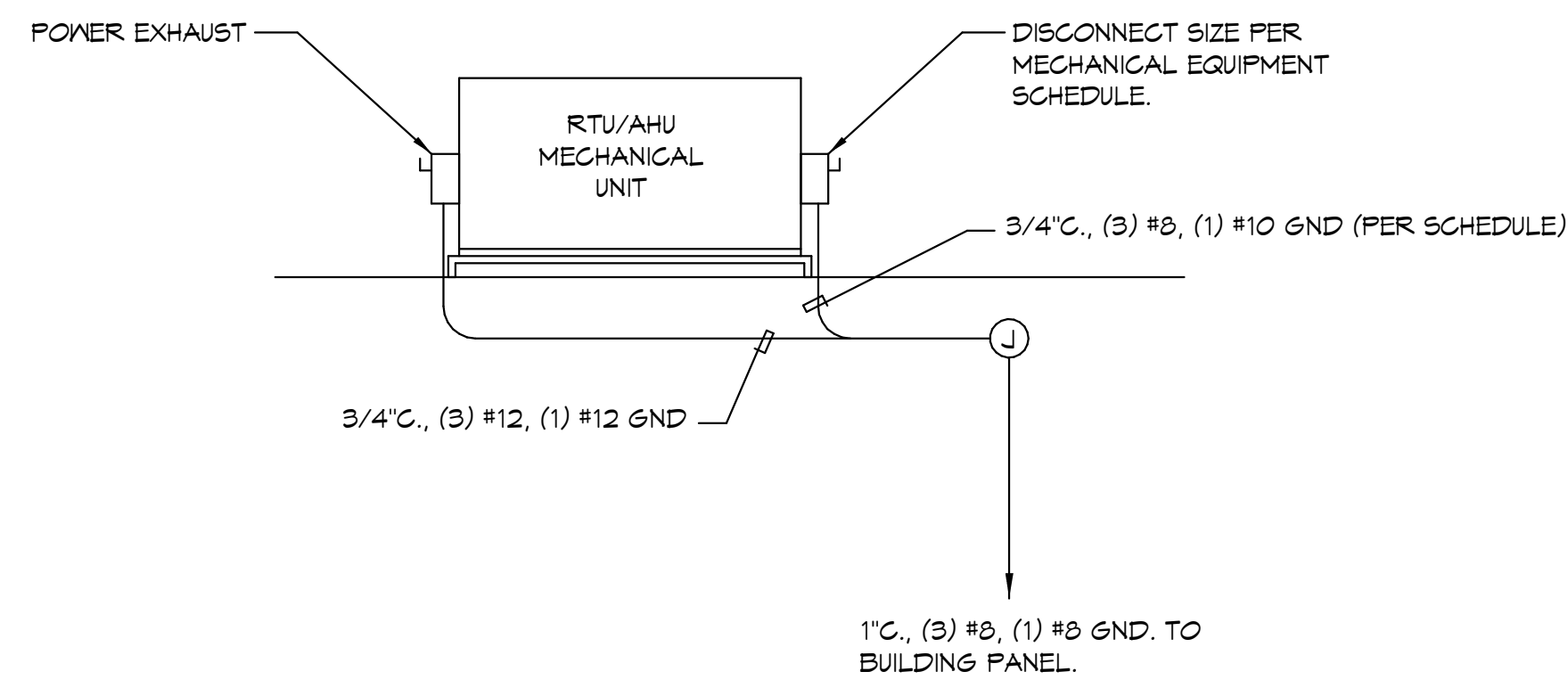
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Professional Engineer Seal for Robert D. Webb, No. E 14781, State of California, expires 11/2021.

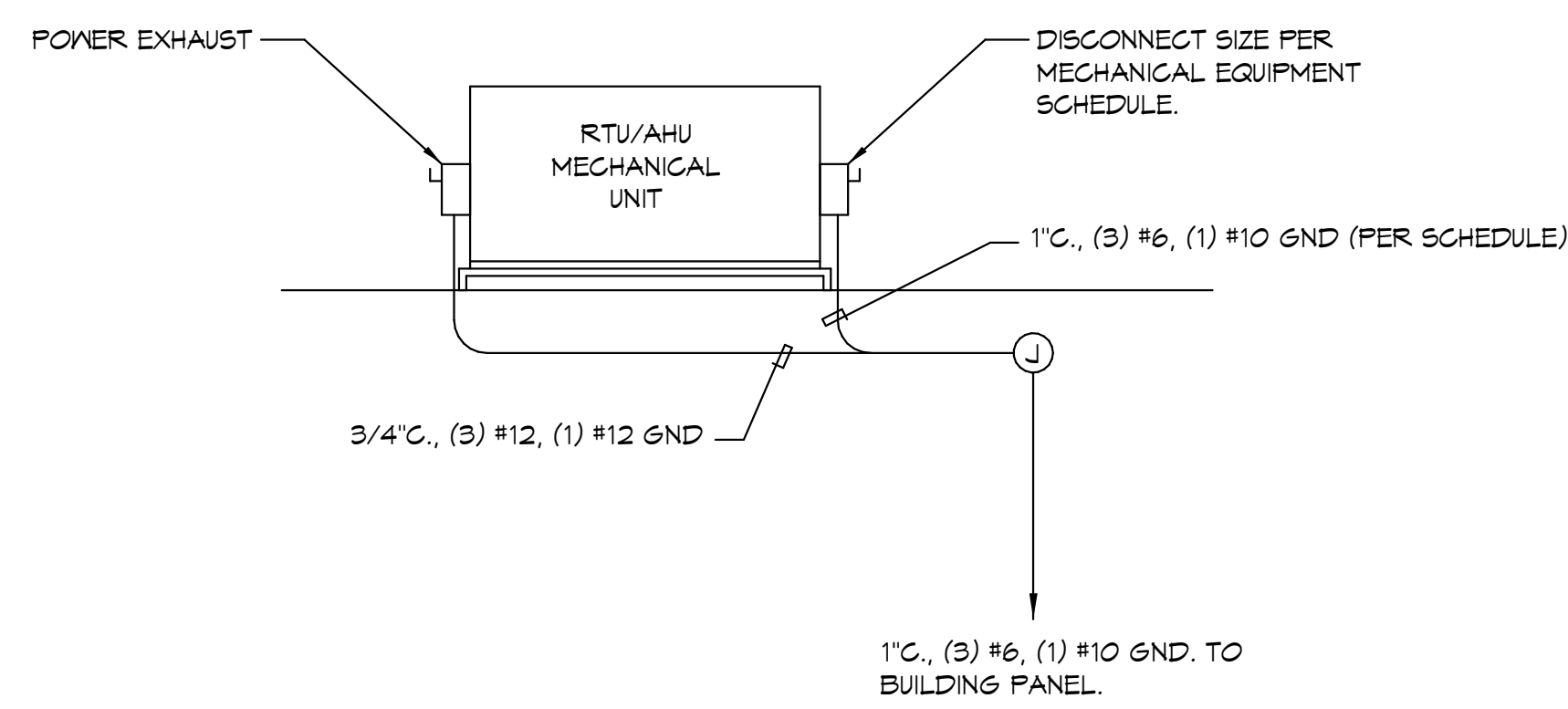




A/C UNIT CONNECTION DETAIL 1
 NO SCALE E6.2



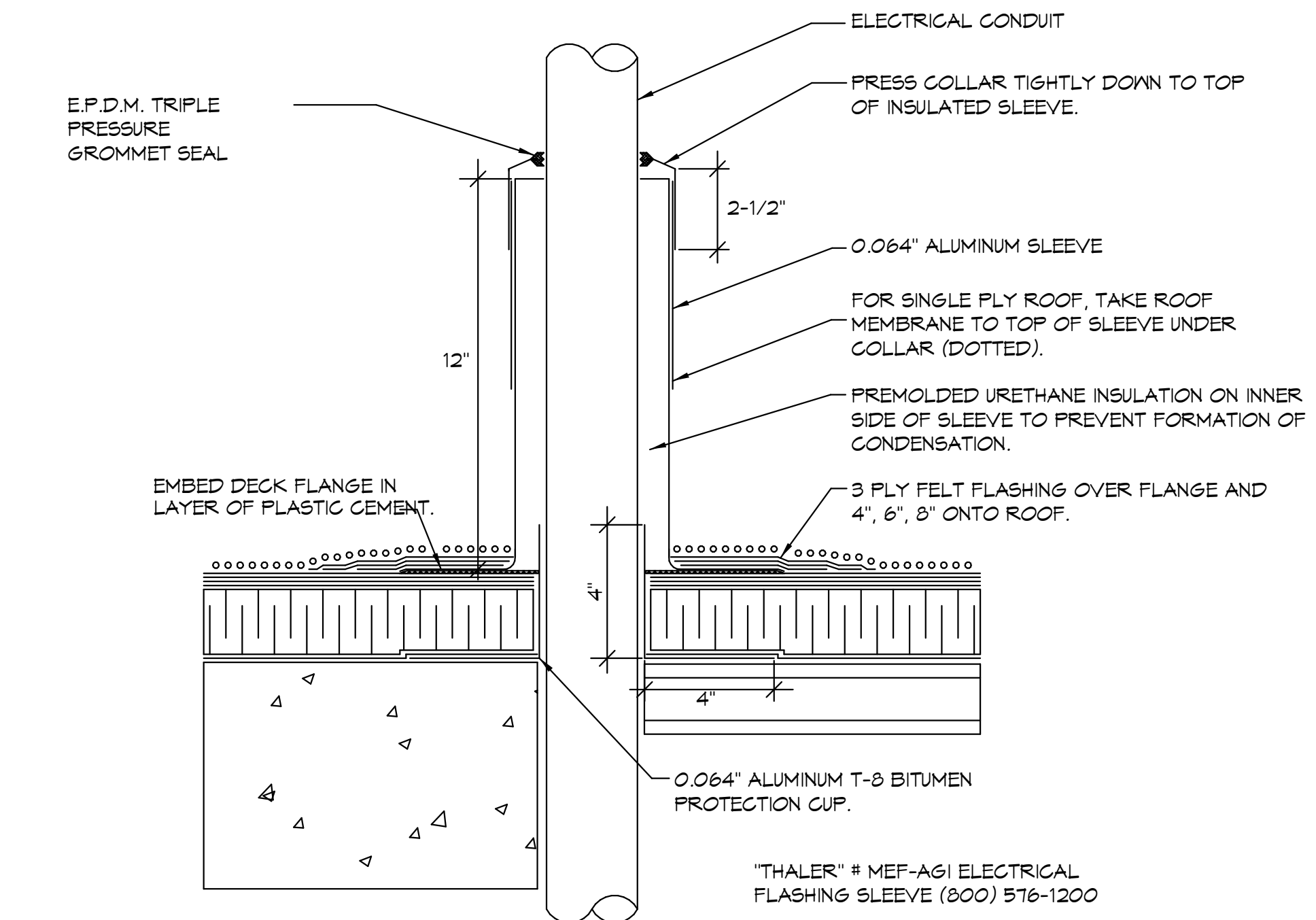
TYPICAL MECHANICAL UNIT COMBINATION FEEDER DETAIL (40A) 2
 NO SCALE E6.2



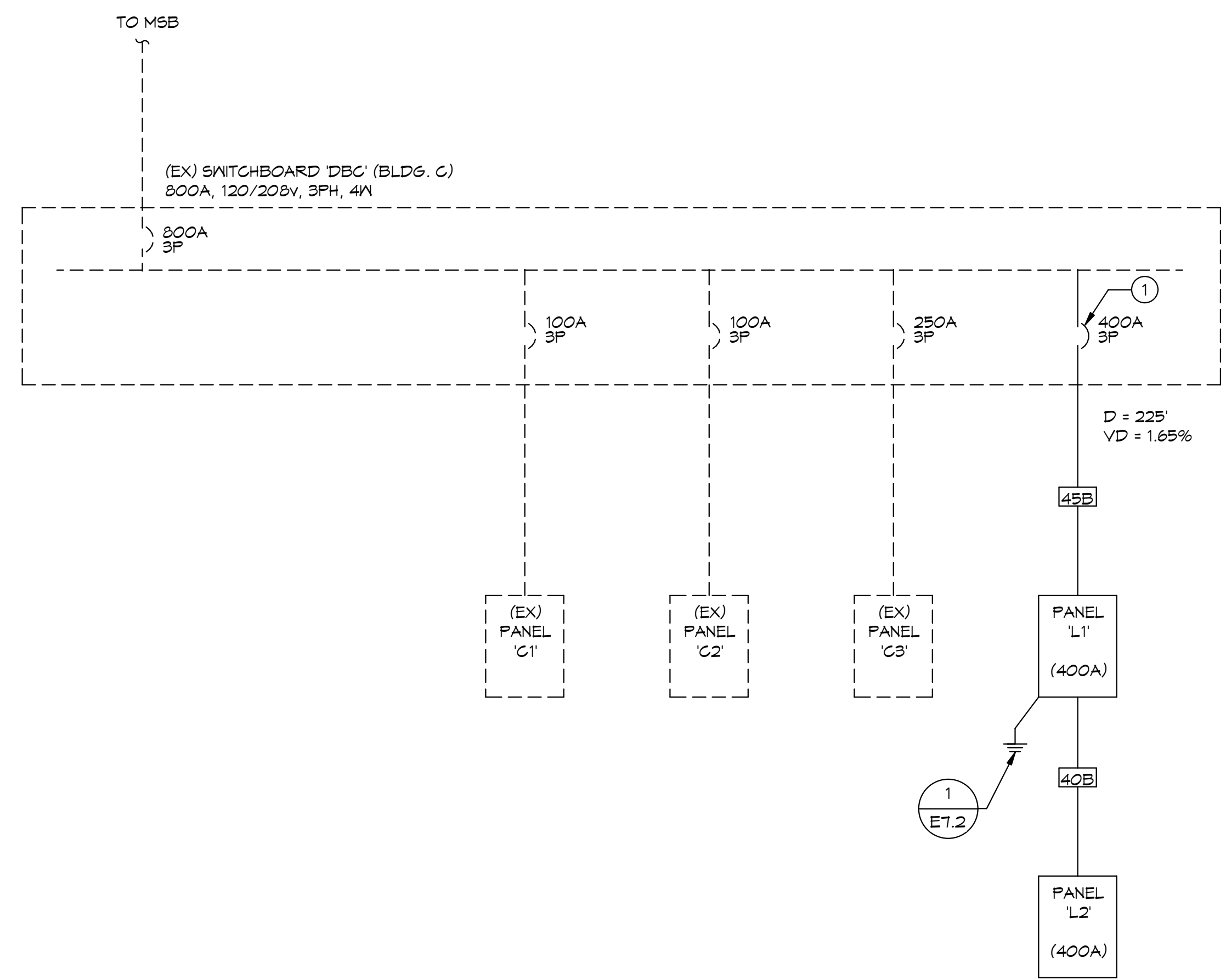
TYPICAL MECHANICAL UNIT COMBINATION FEEDER DETAIL (50A) 3
 NO SCALE E6.2

Mark	Voltage/Phase	Conduit/Wire	Fuse	Disc. Switch	Panel	Remarks
AC 1	208/3	3/4" C., (3) #8, (1) #10 GND.	40	60A/3P/3R	SEE PLANS	21 MCA ①
AC 2	208/3	1" C., (3) #6, (1) #10 GND.	45	60A/3P/3R	SEE PLANS	31 MCA ①
AC 3	208/3	1" C., (3) #6, (1) #10 GND.	45	60A/3P/3R	SEE PLANS	35 MCA ②
AC 4	208/3	1" C., (3) #6, (1) #10 GND.	45	60A/3P/3R	SEE PLANS	35 MCA ②
FC 1	208/1	3/4" C., (2) #10, (1) #10 GND.		3	SEE PLANS	1.4 MCA (15 MOCP)
CU 1	208/1	3/4" C., (2) #10, (1) #10 GND.		3	SEE PLANS	12.1 MCA (25 MOCP)
EF 1	120/1	3/4" C., (2) #10, (1) #10 GND.		3	SEE PLANS	66W
EF 2	120/1	3/4" C., (2) #10, (1) #10 GND.		3	SEE PLANS	1/8 HP (4.4 FLA)
ENH 1	120/1	3/4" C., (2) #8, (1) #8 GND.		3	SEE PLANS	3.5KW (29 FLA)

- ① PROVIDE SEPARATE POWER FOR POWER EXHAUST (HP = 0.5, FLA = 2.7, MOCP = 6.1A) 208V, 3Ø. PROVIDE POWER EXHAUST DISCONNECT SEPARATE FROM THE UNIT DISCONNECT. PROVIDE MANUAL MOTOR STARTER SWITCH RATED FOR MOTOR SIZE AND VOLTAGE.
- ② PROVIDE SEPARATE POWER FOR POWER EXHAUST (HP = 1.0, FLA = 5.1, MOCP = 11.5) 208V, 3Ø. PROVIDE POWER EXHAUST DISCONNECT SEPARATE FROM THE UNIT DISCONNECT. PROVIDE MANUAL MOTOR STARTER SWITCH RATED FOR MOTOR SIZE AND VOLTAGE.
- ③ PROVIDE MANUAL MOTOR STARTER SWITCH RATED FOR MOTOR SIZE AND VOLTAGE.



CONDUIT ROOF PENETRATION DETAIL 4
 NO SCALE E6.2



ONE-LINE DIAGRAM
 NO SCALE

GENERAL NOTES:

1. A FAULT CURRENT AND TIME CURRENT STUDY MUST BE PROVIDED AS DESCRIBED IN THE SPECIFICATIONS PRIOR TO FINAL APPROVAL OF THE POWER EQUIPMENT.
2. REFERENCE DETAIL **2** FOR ALL EQUIPMENT FAULT CURRENT RATINGS.
3. UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
4. ALL ELECTRICAL GEAR AND EQUIPMENT SHOWN ON ONE-LINE DIAGRAM SHALL BE NEMA 3R UNLESS OTHERWISE NOTED.

KEY NOTES:

1. NEW CIRCUIT BREAKER IN EXISTING SPACE TO MATCH EXISTING MANUFACTURER AND RATING

LOAD CALCULATION	
PEAK DEMAND	= 321 KW
X 1.25	= 401 KW
TOTAL LOAD (120/208V)	= 1359 A
NEW ADDED LOAD	= 251 A
	= 1610 A
EXISTING SERVICE IS	2500 AMPS, 120/208V

I.D.	Type	Ampacity	Copper		Aluminum	
			Conduit	Conductors	Conduit	Conductors
2A		20	(1) 3/4"	3 # 12, 1# 12 Gnd	NA	NA
2B		20	(1) 3/4"	4 # 12, 1# 12 Gnd	NA	NA
3A		30	(1) 3/4"	3 # 10, 1# 10 Gnd	NA	NA
3B		30	(1) 3/4"	4 # 10, 1# 10 Gnd	NA	NA
4A		40	(1) 1"	3 # 8, 1# 10 Gnd	NA	NA
4B		40	(1) 1"	4 # 8, 1# 10 Gnd	NA	NA
5A		50	(1) 1"	3 # 6, 1# 10 Gnd	NA	NA
5B		50	(1) 1"	4 # 6, 1# 10 Gnd	NA	NA
6A		60	(1) 1 1/4"	3 # 4, 1# 8 Gnd	NA	NA
6B		60	(1) 1 1/4"	4 # 4, 1# 8 Gnd	NA	NA
7A		70	(1) 1 1/4"	3 # 4, 1# 8 Gnd	NA	NA
7B		70	(1) 1 1/4"	4 # 4, 1# 8 Gnd	NA	NA
8A		80	(1) 1 1/4"	3 # 3, 1# 8 Gnd	NA	NA
8B		80	(1) 1 1/4"	4 # 3, 1# 8 Gnd	NA	NA
9A		90	(1) 1 1/2"	3 # 2, 1# 8 Gnd	NA	NA
9B		90	(1) 1 1/2"	4 # 2, 1# 8 Gnd	NA	NA
10A		100	(1) 1 1/2"	3 # 1, 1# 6 Gnd	NA	NA
10B		100	(1) 1 1/2"	4 # 1, 1# 6 Gnd	NA	NA
12A		125	(1) 2"	3 # 1, 1# 6 Gnd	(1) 2"	3 # 20, 1# 3 Gnd
12B		125	(1) 2"	4 # 1, 1# 6 Gnd	(1) 2"	4 # 20, 1# 3 Gnd
15A		150	(1) 2"	3 # 10, 1# 6 Gnd	(1) 2"	3 # 30, 1# 3 Gnd
15B		150	(1) 2"	4 # 10, 1# 6 Gnd	(1) 2"	4 # 30, 1# 3 Gnd
17A		175	(1) 2"	3 # 20, 1# 6 Gnd	(1) 2"	3 # 40, 1# 3 Gnd
17B		175	(1) 2"	4 # 20, 1# 6 Gnd	(1) 2"	4 # 40, 1# 3 Gnd
20A		200	(1) 3"	3 # 30, 1# 4 Gnd	(1) 3"	3 # 250, 1# 2 Gnd
20B		200	(1) 3"	4 # 30, 1# 4 Gnd	(1) 3"	4 # 250, 1# 2 Gnd
22A		225	(1) 3"	3 # 40, 1# 4 Gnd	(1) 3"	3 # 300, 1# 2 Gnd
22B		225	(1) 3"	4 # 40, 1# 4 Gnd	(1) 3"	4 # 300, 1# 2 Gnd
25A		250	(1) 3"	3 # 250, 1# 4 Gnd	(1) 3"	3 # 350, 1# 2 Gnd
25B		250	(1) 3"	4 # 250, 1# 4 Gnd	(1) 3"	4 # 350, 1# 2 Gnd
30A		300	(1) 3"	3 # 350, 1# 4 Gnd	(1) 3"	3 # 400, 1# 2 Gnd
30B		300	(1) 3"	4 # 350, 1# 4 Gnd	(1) 3"	4 # 500, 1# 2 Gnd
35A		350	(2) 2"	3 # 20, 1# 2 Gnd	(2) 2"	3 # 40, 1# 1 Gnd
35B		350	(2) 2"	4 # 20, 1# 2 Gnd	(2) 2"	4 # 40, 1# 1 Gnd
40A		400	(2) 3"	3 # 30, 1# 2 Gnd	(2) 3"	3 # 250, 1# 10 Gnd
40B		400	(2) 3"	4 # 30, 1# 2 Gnd	(2) 3"	4 # 250, 1# 10 Gnd
45A		450	(2) 3"	3 # 40, 1# 2 Gnd	(2) 3"	3 # 300, 1# 10 Gnd
45B		450	(2) 3"	4 # 40, 1# 2 Gnd	(2) 3"	4 # 300, 1# 10 Gnd
50A		500	(2) 3"	3 # 250, 1# 2 Gnd	(2) 3"	3 # 350, 1# 10 Gnd
50B		500	(2) 3"	4 # 250, 1# 2 Gnd	(2) 3"	4 # 350, 1# 10 Gnd
60A		600	(2) 3"	3 # 350, 1# 1 Gnd	(2) 3"	3 # 500, 1# 20 Gnd
60B		600	(2) 3"	4 # 350, 1# 1 Gnd	(2) 3"	4 # 500, 1# 20 Gnd
70A		700	(3) 3"	3 # 40, 1# 10 Gnd	(3) 3"	3 # 300, 1# 30 Gnd
70B		700	(3) 3"	4 # 40, 1# 10 Gnd	(3) 3"	4 # 300, 1# 30 Gnd
80A		800	(3) 3"	3 # 300, 1# 10 Gnd	(3) 3"	3 # 500, 1# 30 Gnd
80B		800	(3) 3"	4 # 300, 1# 10 Gnd	(3) 3"	4 # 500, 1# 30 Gnd
100B		1000	(4) 3"	4 # 250, 1# 20 Gnd	(4) 3"	4 # 400, 1# 40 Gnd
120B		1200	(4) 4"	4 # 350, 1# 30 Gnd	(4) 4"	4 # 500, 1# 250 Gnd
160B		1600	(5) 4"	4 # 400, 1# 40 Gnd	(5) 4"	4 # 600, 1# 350 Gnd
200B		2000	(6) 4"	4 # 500, 1# 250 Gnd	(6) 4"	4 # 600, 1# 400 Gnd
250B		2500	(7) 4"	4 # 500, 1# 350 Gnd	(7) 4"	4 # 750, 1# 600 Gnd
300B		3000	(8) 4"	4 # 500, 1# 350 Gnd	(8) 4"	4 # 750, 1# 600 Gnd
350B		3500	(12) 4"	4 # 350, 1# 400 Gnd	(12) 4"	4 # 500, 1# 600 Gnd
400B		4000	(12) 4"	4 # 400, 1# 400 Gnd	(12) 4"	4 # 600, 1# 750 Gnd

600V FEEDER SCHEDULE LEGEND

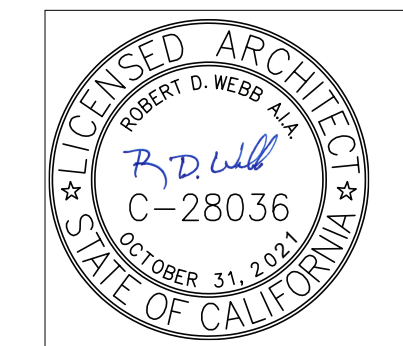
- MS REFERENCE MECHANICAL EQUIPMENT SCHEDULE FOR SIZE
- T75 "T" INDICATES TYPICAL TRANSFORMER FEEDER REFERENCE. THE NUMBER INDICATES TRANSFORMER TYPE. REFER TO SCHEDULE ON SHEET FOR SIZE REQUIRED.
- 2 [] [] INDICATES QUANTITY OF CONDUITS REQUIRED = (2)
- [] [] [] INDICATES SIZE OF CONDUITS REQUIRED = 4"
- [] [] [] INDICATES "CONDUIT ONLY"

600V FEEDER SCHEDULE GENERAL NOTES:

1. ALL CONDUCTOR SHALL BE PROVIDED WITH TYPE THHN-2 INSULATION. REFERENCE SPECIFICATION SECTION 26 05 19 (16120) FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE 60 DEGREE COPPER/ALUMINUM RATED TERMINATION FOR ALL FEEDERS SIZED WITH #2 OR SMALLER CONDUCTORS. PROVIDE 75 DEGREE COPPER/ALUMINUM RATED TERMINATIONS FOR ALL FEEDERS SIZED WITH #1 OR LARGER CONDUCTORS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING LUG CONFIGURATION AN ALL EQUIPMENT, BREAKER OF DISCONNECTS TO MATCH FEEDER CONFIGURATIONS INDICATED.
4. WHERE MULTIPLE CONDUIT QUANTITIES ARE INDICATED, CONDUCTOR QUANTITIES AND SIZES SHOWN IN SCHEDULE SHALL BE PROVIDED IN EACH CONDUIT.

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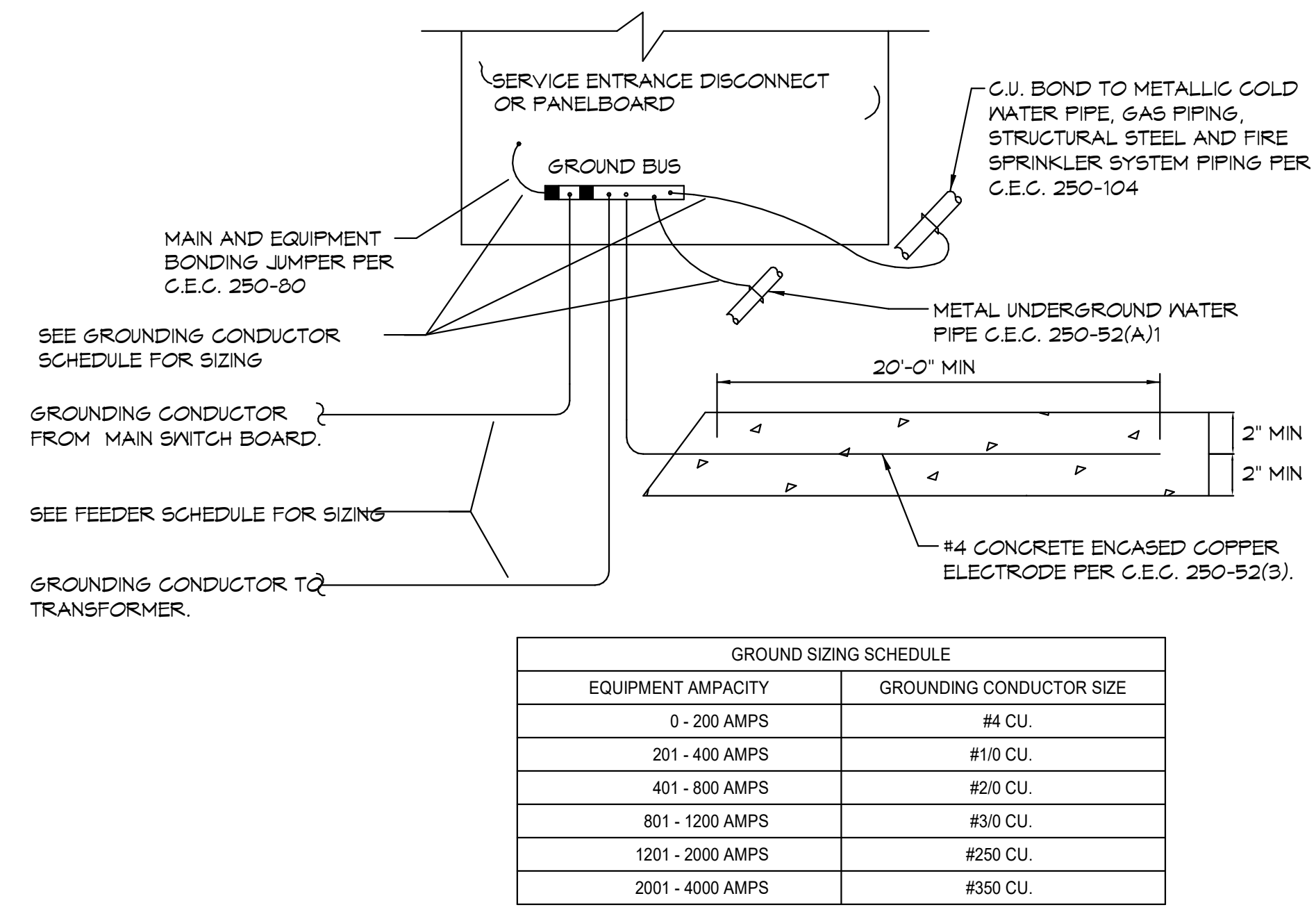
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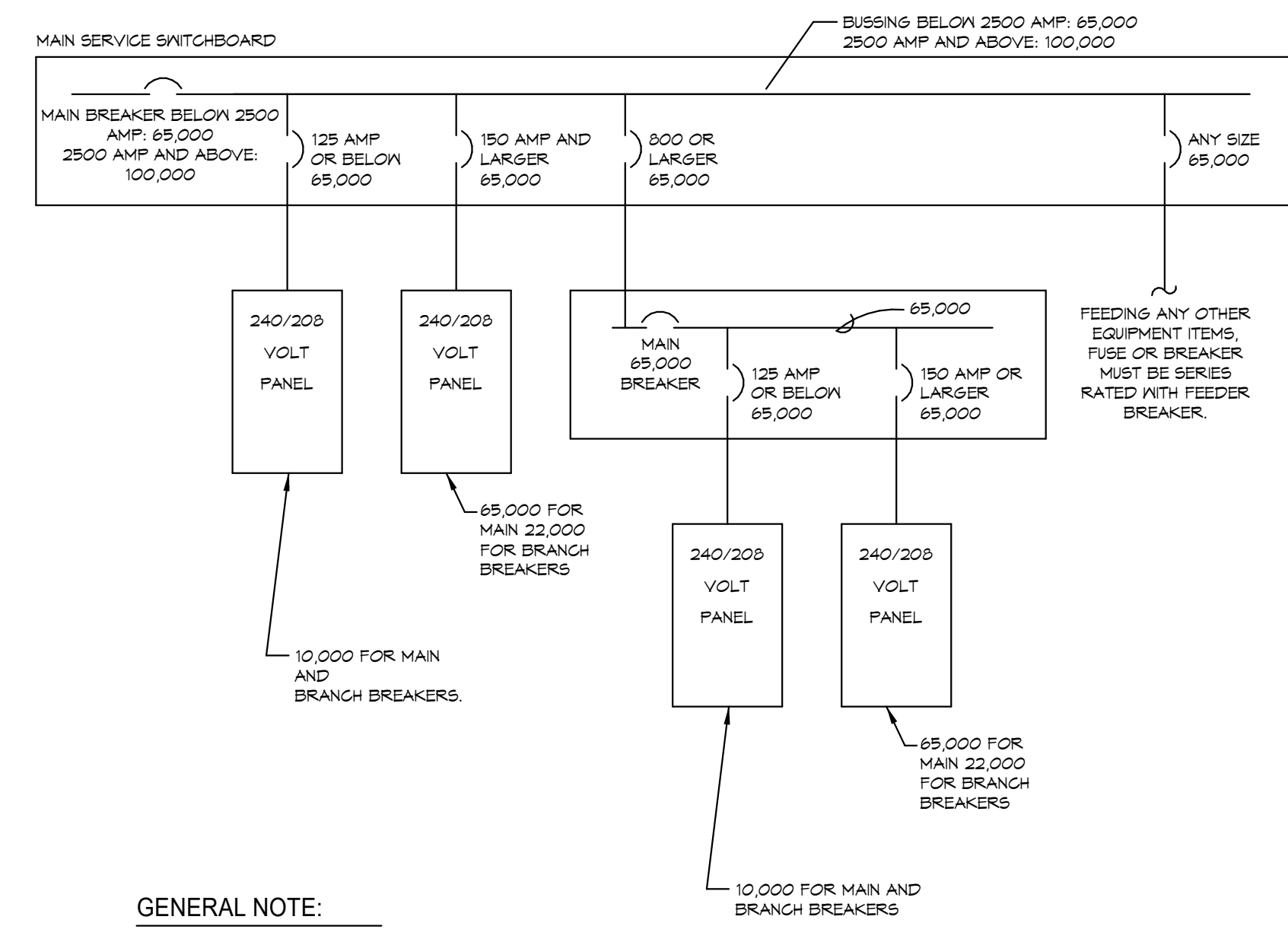
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SERVICE ENTRANCE GROUNDING AND BONDING DETAIL
 NO SCALE



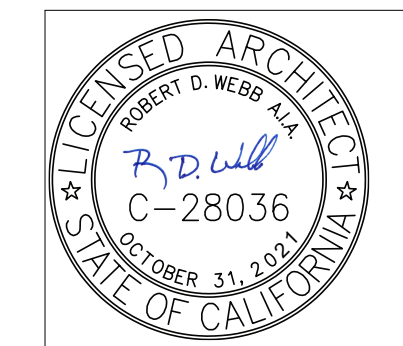
GENERAL NOTE:
 1. ALL RATINGS SHOWN ARE FOR A UL LISTED SERIES COMBINATION OF THE BREAKERS INDICATED.

TYPICAL 208/240 VOLT SERVICE AIC EQUIPMENT RATING
 NO SCALE

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REGISTERED PROFESSIONAL ENGINEER
 ROBERT D. WEBB
 NO. E 14781
 Exp. 5-30-2021
 ELECTRICAL
 STATE OF CALIFORNIA

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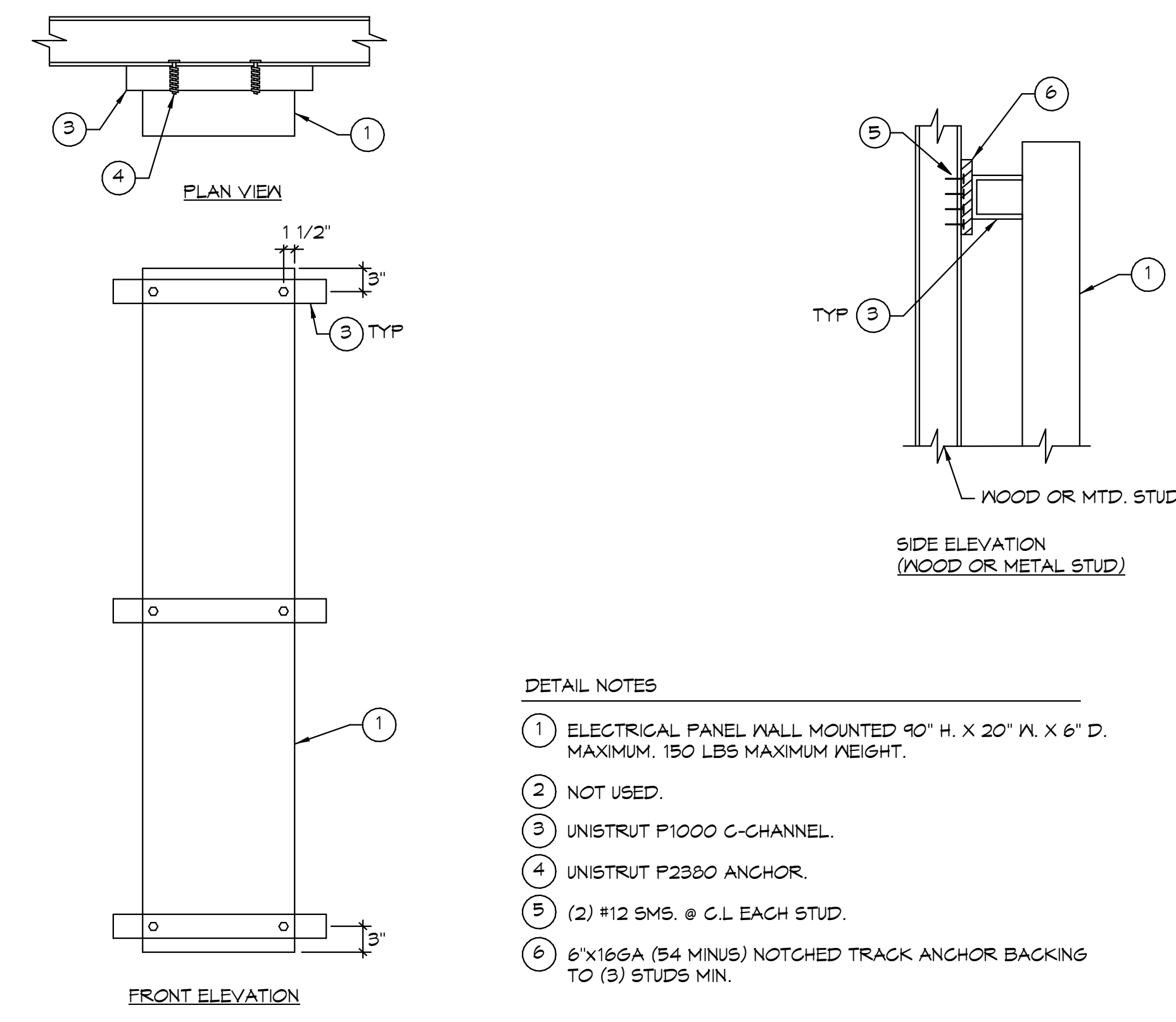
120/208 3PH, 4WIRE		400 AMP		Main	Breaker	Enclosure	Enclosure Type	Enclosure Note							
100% Neutral Bus				Load	Load	Load	NEMA TYPE 1								
(REMOTE) VIB Protection				Enclosure	Enclosure	Enclosure	NEMA TYPE 4X								
Service Entrance Rated		GENERAL DISTRIBUTION		PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL.											
Load Side Feed (Dry Lug)		BREAKER REQUIREMENTS													
LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO.	PHASE A	PHASE B	PHASE C	NO.	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL	
X		INTERIOR LTG	30	1	1	3240			2	40	3	AC-1			
X		INTERIOR LTG	30	1	3	3240			4						
X		INTERIOR LTG	30	1	5	3240			6						
		CU-1	30	2	7	1200	3240		8	50	3	AC-2			
			30	1	9	3720	1200		10						
		EF-1	30	1	11	3720	3720		12						
		EF-2	30	1	13	3720	3720		14	50	3	AC-3			
		EW-1-CR10	40	1	15	3720	3720		16						
		EW-1-CR10	40	1	17	3720	3720		18						
		EW-1-TOILET	40	1	19	3500	3500		20	50	3	AC-4			
		SPARE	30	1	21	3720			22						
		SPARE	30	1	23	3720	250		24						
		EXTERIOR LTG	30	1	25	150	3720		26	20	2	FC-1			
		SPARE	30	1	27	150			28						
		SPARE	30	1	29				30			SPARE			
		SPARE	30	1	31				32			SPARE			
		SPARE	30	1	33				34			SPARE			
		SPARE	30	1	35				36			SPARE			
		SPARE	30	1	37				38			SPACE			
		SPARE	30	1	39				40			SPACE			
		EM LTG INVERTER	25	1	41				42	20	1	SPACE			
SPECIAL PANEL				NOTE #1				NOTE #2							
NOTE															
NHL = Non Harmonic Load		TOTAL LOAD PER PHASE		10376		10310		18226		HIGH PHASE		22920		/ 0.9d = VA @ 120V 288.0 AMPS	
LCL = Long Continuous Load		25% LONG CONTINUOUS LOADS		0		0		0		ALL PHASES		310.12		/ 0.9d = VA @ 208V/3PH 251.0 AMPS	
SUB PANEL		L2		8000		5900		10900		DEMAND PER				AMPS	
Max. Neut. Load		TOTAL CONNECTED LOAD		97376		25218		29826		NEC 220.34				AMPS	
274 AMPS															

M:\Panel Schedule\2019\19031 Pride AcademyL1 11:13 PM 1/17/2020

- Per NFPA 72 provide:
1. Dedicated circuit
 2. Mechanical protected (lock out device)
 3. Red marking
 4. Accessible to authorized personnel only
 5. Identified as "fire alarm circuit"
 6. Location of circuit breaker permanently identified at fire alarm control unit.

120/208 3PH, 4WIRE		400 AMP		Main	Breaker	Enclosure	Enclosure Type	Enclosure Note							
100% Neutral Bus				Load	Load	Load	NEMA TYPE 1								
(REMOTE) VIB Protection				Enclosure	Enclosure	Enclosure	NEMA TYPE 4X								
Service Entrance Rated		GENERAL DISTRIBUTION		PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL.											
Load Side Feed (Dry Lug)		BREAKER REQUIREMENTS		AND FIRE ALARM EQUIPMENT (DEVICE SHALL BE RED) SERVED FROM THIS PANEL.											
LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO.	PHASE A	PHASE B	PHASE C	NO.	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL	
		HOODTOP RECEPT.	30	1	1	600			2	20	1	RECEPT CORD REEL -10			
		EXTERIOR RECEPT.	30	1	3	600			4	20	1	RECEPT CORD REEL -10			
		RECEPT - 2	30	1	5	1000			6	20	1	RECEPT CORD REEL -10			
		RECEPT - 2	30	1	7	1000			8	20	1	RECEPT CORD REEL -10			
		RECEPT - 2	30	1	9	600			10	20	1	RECEPT CORD REEL -10			
		RECEPT - 2	30	1	11	600			12	20	1	RECEPT CORD REEL -10			
		RECEPT - 3.4	20	1	13	600			14	20	1	RECEPT CORD REEL -10			
		RECEPT - 3.4	20	1	15	600			16	20	1	RECEPT - 10			
		RECEPT - 2	20	1	17	600			18	20	1	RECEPT - 10			
		RECEPT - 4	20	1	19	800			20	20	1	RECEPT - 10			
		RECEPT - 4	20	1	21	800			22	20	1	RECEPT - 10			
		RECEPT - 6	30	1	23	1000			24	20	1	IDF RECEPT.			
		RECEPT - 7	30	1	25	800			26	20	1	IDF RECEPT.			
		SPARE	30	1	27	1000			28	20	1	RECEPT.			
		HAND DRYER	30	1	29	600			30	30	1	IDF RECEPT. - UPS			
		SPARE	30	1	31	600			32	20	1	LTG CONTROL PANEL			
		SPARE	30	1	33				34	20	1	WIRELESS CLOCK			
		SPARE	30	1	35				36	20	1	SPARE			
		SPARE	30	1	37				38	20	1	SPARE			
		SPARE	30	1	39				40	20	1	SPARE			
		SPARE	30	1	41				42	20	1	FIRE ALARM EXT. PANEL			
SPECIAL PANEL				NOTE #1				NOTE #2							
NOTE															
NHL = Non Harmonic Load		TOTAL LOAD PER PHASE		8000		5900		10900		HIGH PHASE		10900		/ 0.9d = VA @ 120V 109.0 AMPS	
LCL = Long Continuous Load		25% LONG CONTINUOUS LOADS		0		0		0		ALL PHASES		22700		/ 0.9d = VA @ 208V/3PH 76.2 AMPS	
SUB PANEL		L2		8000		5900		10900		DEMAND PER				AMPS	
Max. Neut. Load		TOTAL CONNECTED LOAD		8000		5900		10900		NEC 220.34				AMPS	
103 AMPS															

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SURFACE WALL MOUNTED ELECTRICAL PANEL DETAIL
NO SCALE

		L1
		L2

1
EQ.1

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1/21/2020 12:32:15 PM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-118742 INC.
REVIEWED FOR
DATE: 02.05.20

Revision	Date

Consultant
Engineer

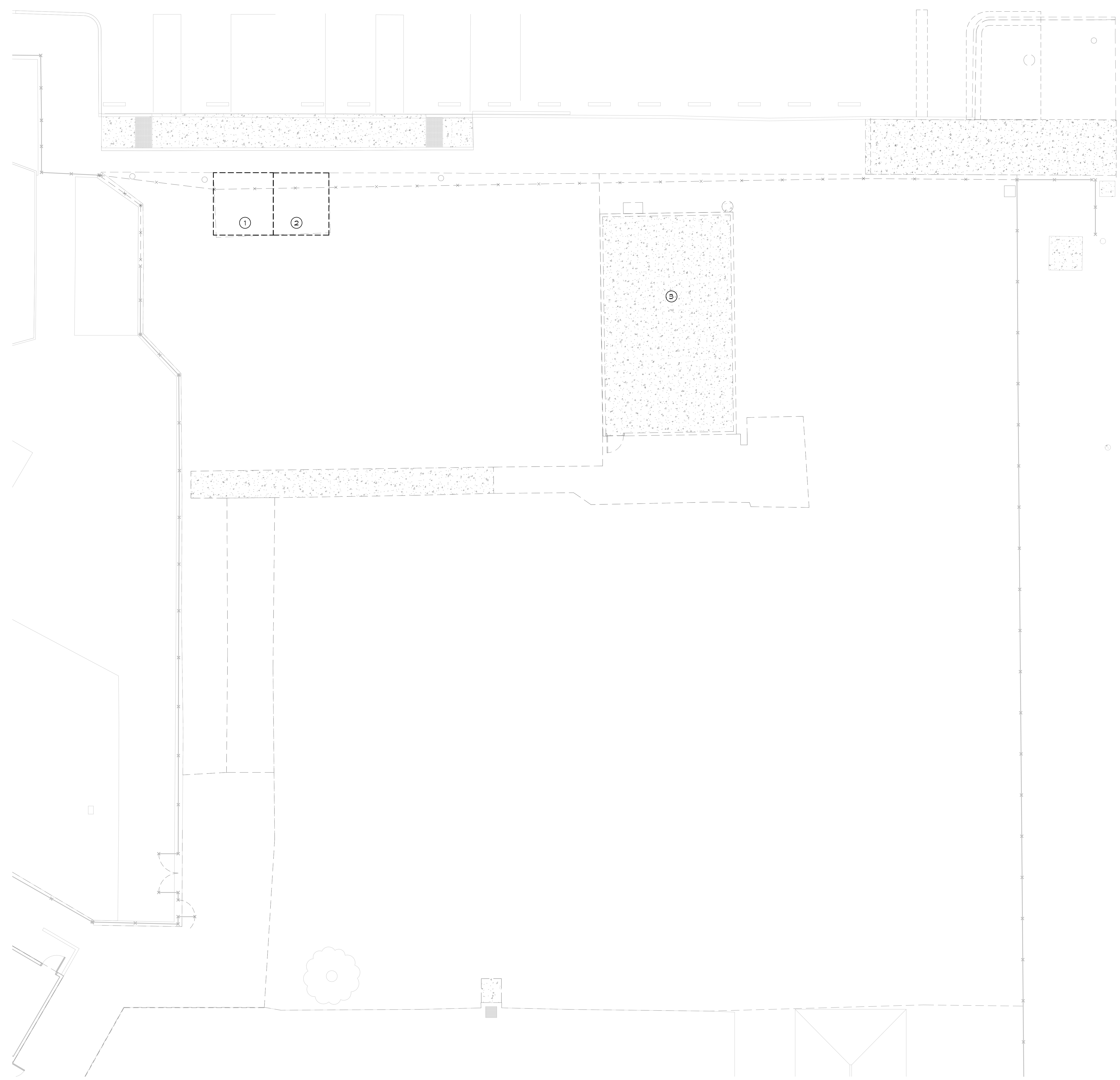
studionwc
ARCHITECTURE + ENGINEERING
615 Esplanade Blvd., Ste. 201, Escondido, California 92024
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REGISTERED ARCHITECT
STATE OF CALIFORNIA
C-28036
EXPIRES 31.12.21

PROSPECT AVENUE ELEMENTARY
SCHOOL
LIBRARY RESOURCE CENTER (LRC)
SANTEE SCHOOL DISTRICT

PANEL SCHEDULES

Drawn:
Author:
Checked:
Checker:
Date:
AUGUST 27, 2019
Job:
SSD-PA-03
E9.1



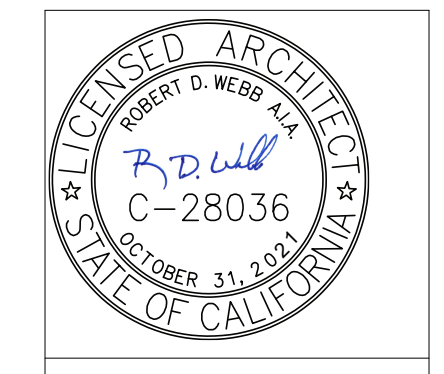
DEMOLITION GENERAL NOTES:
 1. ALL ITEMS SHOWN ON THIS DRAWING ARE EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED. SEE REQUIREMENTS BELOW FOR SCOPE OF WORK. ALL OTHER ELECTRICAL ITEMS IN THIS BUILDING ARE EXISTING TO REMAIN, MAINTAIN POWER CIRCUIT CONTINUITY UNTIL NEW SOURCE IS ENERGIZED AND READY FOR TRANSFER, REFER TO POWER AND LIGHTING PLANS.
 2. ALL ELECTRICAL DEMOLITION WORK SHALL BE DIRECTED BY THE ELECTRICAL CONTRACTOR.

GENERAL DEMOLITION REQUIREMENTS:
 1. **LIGHTING FIXTURES**
 WHERE EXISTING LIGHTING FIXTURES ARE TO BE REMOVED, AND ARE NOT RELOCATED, CONTRACTOR SHALL DISPOSE OF ALL FIXTURES INCLUDING LAMPS AND BALLAST.
 2. **WIRING DEVICES**
 WHERE EXISTING SWITCHES OR RECEPTACLES ARE TO BE REMOVED, THE CONTRACTOR SHALL DISPOSE OF ALL DEVICES AS REQUIRED.
 3. **COMMUNICATION DEVICES**
 WHERE EXISTING TELEPHONE/INTERCOM AND CLOCK HEAD END EQUIPMENT, PHONES, SPEAKERS AND OTHER ASSOCIATED EQUIPMENT ARE TO BE REMOVED, THE CONTRACTOR SHALL DISPOSE OF ALL DEVICES AND EQUIPMENT AS REQUIRED.
 4. **FIRE ALARM**
 WHERE EXISTING FIRE ALARM PANELS AND ASSOCIATED SMOKE, HEAT, DUCT DETECTORS, PULL STATIONS AND STROBE OR HORN UNITS ARE TO BE REMOVED, THE CONTRACTOR SHALL DISPOSE OF ALL DEVICES AND EQUIPMENT AS REQUIRED.
 5. **INTRUSION ALARM**
 EXISTING INTRUSION ALARM SENSORS AND EQUIPMENT SHALL BE REMOVED WHERE INDICATED. RETURN ALL DEVICES TO THE SCHOOL DISTRICT MAINTENANCE FACILITIES.
 6. **POWER EQUIPMENT**
 WHERE EXISTING SWITCHBOARDS, PANELBOARDS, LOAD CENTERS, TRANSFORMERS, DISCONNECT SWITCHES OR OTHER DISTRIBUTION EQUIPMENT ARE TO BE REMOVED, THE CONTRACTOR SHALL DISPOSE OF ALL DEVICES AND EQUIPMENT AS REQUIRED.
 7. ALL BOXES, EXPOSED CONDUIT, WIRE, AND OTHER ITEMS ASSOCIATED WITH ELECTRICAL EQUIPMENT TO BE REMOVED, SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF BY THE CONTRACTOR AS REQUIRED, UNLESS SPECIFICALLY NOTED OTHERWISE. CUT AND CAP CONCEALED CONDUITS. PATCH, SEAL AND REPAIR SURFACE TO MATCH ADJACENT AREA WHERE BOXES ARE REMOVED.

KEY NOTES:
 ① DEMO EXISTING METERS/DISTRIBUTION SWITCHBOARD. COORDINATE METER DISCONNECT AND REMOVAL WITH SDG&E.
 ② REMOVE EXISTING FEEDERS AND CONDUIT TO PORTABLE TO BE DEMOLISHED.
 ③ EXISTING RELOCATABLE TO BE DEMO'D AND REMOVED. SEE A1.1 FOR ADDITIONAL INFO.

Revision	Date

studiiowc
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PROSPECT AVENUE ELEMENTARY SCHOOL
 LIBRARY RESOURCE CENTER (LRC)
 SANTEE SCHOOL DISTRICT

ENLARGED SITE PLAN - DEMOLITION

Drawn:
 Author
 Checked:
 Checker
 Date:
 AUGUST 27, 2019
 Job:
 SSD-PA-03

E10.1

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