

# LEGEND

- EXTERIOR ELEVATION NO. EXTERIOR ELEVATION SYMBOL SHEET NO.
- SIGNAGE SYMBOL
- DETAIL NO. DETAIL SYMBOL SHEET NO.
- DETAIL NO. SECTION/DETAIL/PHOTO REFERENCE SYMBOL SHEET NO.

# BUILDING DATA

BLDG.	DESCRIPTION	OCCUPANCY CONST. TYPE	TOTAL AREA	BASIC ALLOWABLE	ACTUAL < ALLOWABLE
1	2 STORY MODULAR CLASSROOM	OCC "E" TYPE VA	1ST FLR = 6,896 2ND FLR = 7,928 =14,824 S.F.	74,000 S.F.	14,824 S.F. < 74,000 S.F.

INCLUDES EXIT BALCONIES & ROOF OVERHANG AREAS

BUILDING HEIGHT: TWO STORY  
AUTOMATIC FIRE SPRINKLER: YES

# SCOPE OF WORK

NEW CONSTRUCTION OF A 2 STORY MODULAR TYPE VA CLASSROOM BUILDING WITH BOYS AND GIRLS RESTROOMS, EXTERIOR STAIRS, ANCILLARY SPACES, NEW PC ELEVATOR, PER PC-03-118291 & MECHANICAL ROOM, NEW ACCESSIBLE PARKING STALLS, NEW PARKING STALLS, FENCING, SITE CONCRETE/ASPHALT WALKWAYS, SITE SIGNAGE, UNDERGROUND UTILITIES CONNECTIONS TO THE BUILDING AND NEW BUILDING CONCRETE FOUNDATION SYSTEM WITH GROUND AIR VENTS.

# CONSULTANTS

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Structural Engineer: Manny Frisch

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TOTAL OF 121 DRAWING SHEETS	

# APPLICABLE CODES

## APPLICABLE CODES AS OF JANUARY 1, 2021

- PART 1 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (CBSAC), TITLE 24, C.C.R.
- PART 2 2019 CALIFORNIA BUILDING CODE (CBC), TITLE 24, C.C.R. (2018 INTERNATIONAL BUILDING CODE WITH 2019 WITH CALIFORNIA AMENDMENTS)
- PART 3 2019 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24, C.C.R. (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
- PART 4 2019 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24, C.C.R. (2018 UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
- PART 5 2019 CALIFORNIA PLUMBING CODE (CPC), TITLE 24, C.C.R. (2018 UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
- PART 6 2019 CALIFORNIA ENERGY CODE (CEC), TITLE 24, C.C.R.
- PART 9 2010 CALIFORNIA FIRE CODE (CFC), TITLE 24, C.C.R. (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
- PART 12 2019 CALIFORNIA REFERENCE STANDARDS CODE (CRSC), TITLE 24, C.C.R. REGULATIONS OF THE STATE FIRE MARSHAL, C.C.R. TITLE 19 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

## PARTIAL LIST OF APPLICABLE STANDARDS

2019 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35	2016 EDITION
NFPA 13 AUTOMATIC SPRINKLER SYSTEMS (CA AMENDED)	2017 EDITION
NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS	2016 EDITION
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2016 EDITION
(NOTE: SEE UL STANDARD 1971 FOR VISUAL DEVICES)	
NFPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION

# DSA NOTES

## Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS (Application No. 03-121340 File No. 19-41)

This drawing, page of specifications/calculations, or the attached list of items has been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

- design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
- coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 (b))

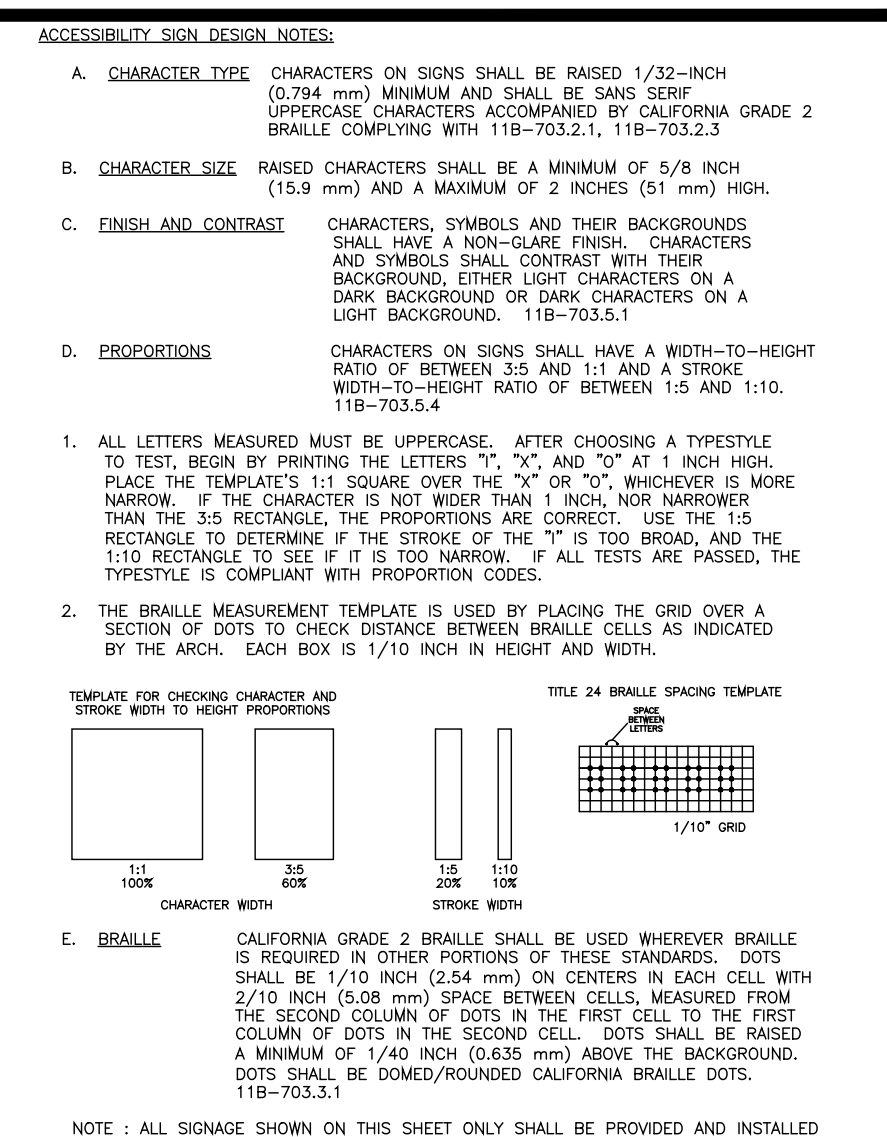
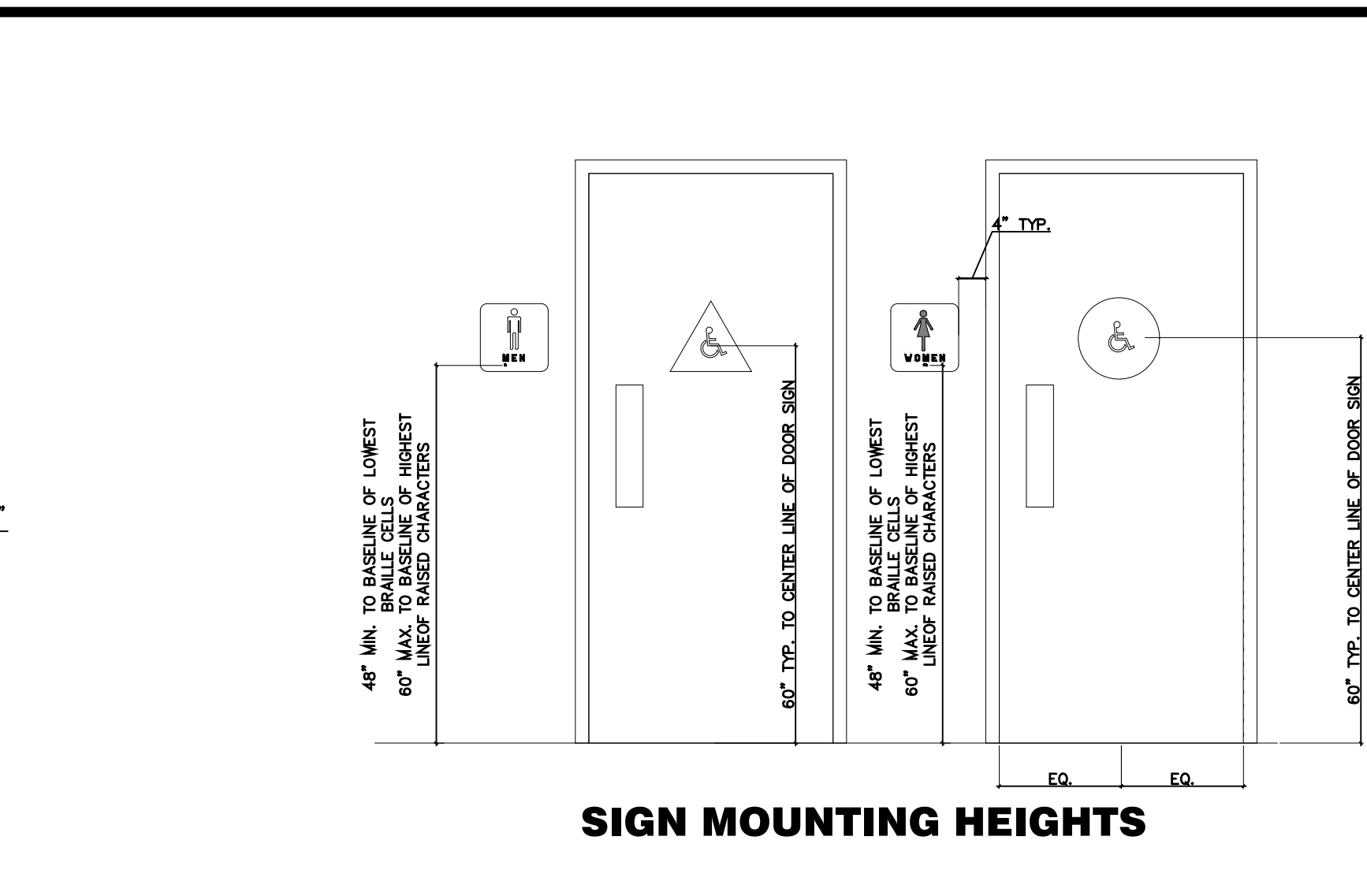
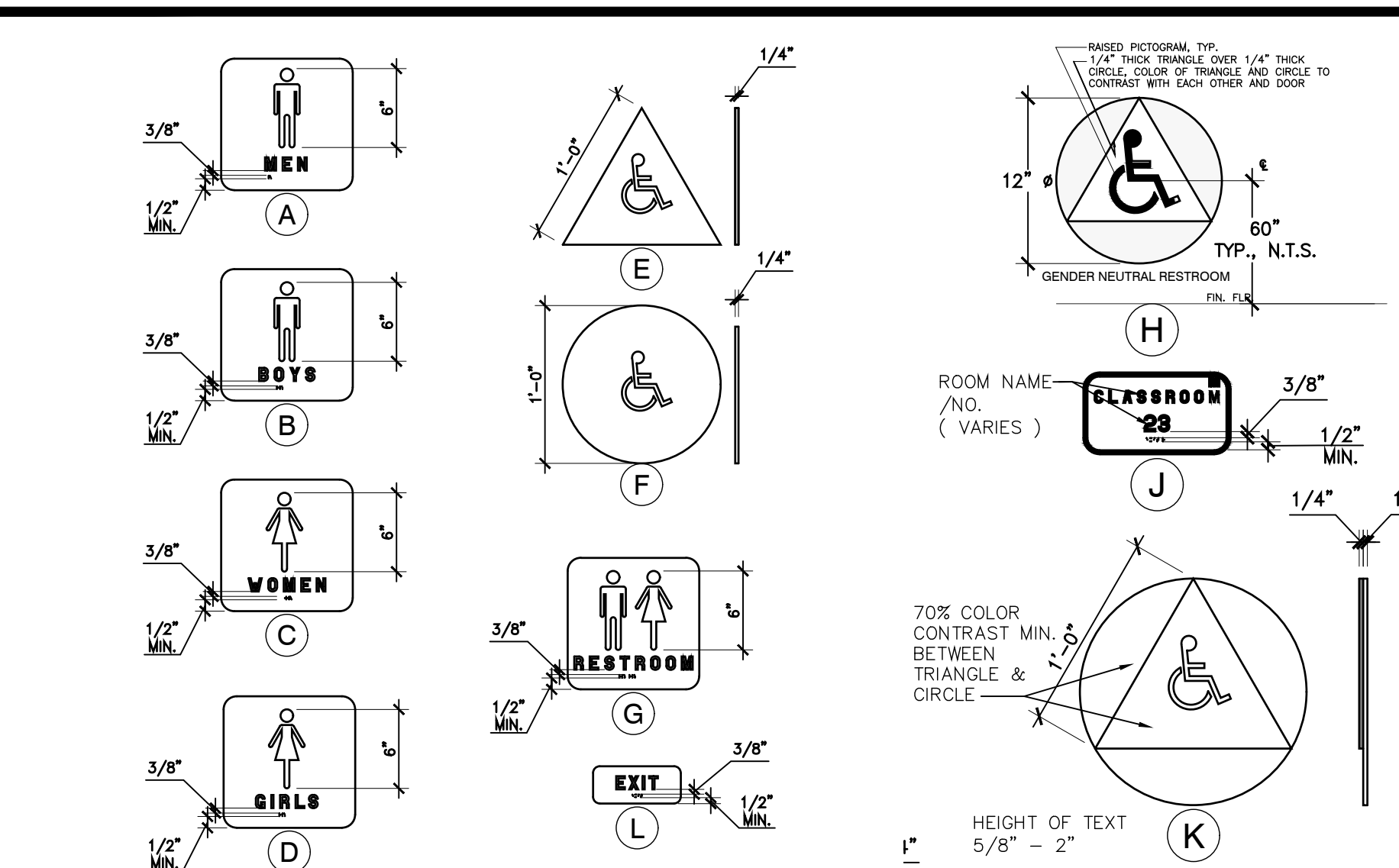
Drawings: see drawing list. SEE SHEET INDEX FOR DRAWINGS MARKED WITH (\*)

Signature: Richard D. Duncan Date: 3/24/2021  
Print Name: Richard D. Duncan License Number: C-21818 Expiration Date: 3/31/23

# GLENDALE UNIFIED SCHOOL DISTRICT NEW 2-STORY MODULAR BUILDING GLENDALE ELEMENTARY SCHOOL 2015 E. GLENDALE BLVD., GLENDALE, CA 91206

# SIGNAGE & NOTES

1



# GENERAL NOTES

- ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338 PART 1, TITLE 24, CCR.
- A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- A DSA INSPECTOR WITH CLASS 1 CERTIFICATION IS REQUIRED FOR THIS PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24 CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR).
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
- CALIFORNIA GEOLOGICAL SURVEY HAZARD REVIEW PROJECT NUMBER (CG-03CA4862) SUBMITTED ON MARCH 12, 2021 AND REVIEW DATE MAY 3, 2021.

# VICINITY MAP



REVISONS

DC ARCHITECTS

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(909) 985-6939 OFFICE (909) 985-6984 FAX

NEW 2 STORY BUILDING  
GLENDALE ELEMENTARY SCHOOL  
2015 E. GLENDALE BLVD.  
GLENDALE, CALIFORNIA 91206  
GLENDALE UNIFIED SCHOOL DISTRICT

BUILDING DATA, GENERAL NOTES, ABBREVIATIONS, VICINITY MAP, LEGENDS

DATE: 2018-06  
DRAWN: [Name]  
DATE: 10/01/2021  
SHEET NO: 00-00000

T-1

BID SET 10/01/2021

**GRADING NOTES**

- ALL GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- ALL GRADING SHALL BE DONE UNDER OBSERVATION AND TESTING BY A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND, IF REQUIRED, BOTH A QUALIFIED PROFESSIONAL CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND AN ENGINEERING GEOLOGIST.
- PROPOSED BUILDING PADS, STRUCTURAL IMPROVEMENT AREAS, AND AREAS TO RECEIVE FILL SHOULD BE CLEARED OF ANY DELETERIOUS MATERIAL, VEGETATION, ASPHALT, CONCRETE AND DEBRIS PRIOR TO COMMENCING GRADING. ANY ORGANIC OR UNSUITABLE MATERIAL GENERATED SHOULD BE EXPORTED FROM THE SITE. THE REMOVAL OF UNSUITABLE MATERIALS SHOULD BE OBSERVED BY THE GEOTECHNICAL CONSULTANT TO EVALUATE THE COMPETENCY OF THE EXPOSED MATERIALS FOR SUPPORT OF STRUCTURAL AND FILL LOADS.
- BRUSH AND TREES SHALL BE REMOVED ONLY WITHIN THE AREA TO BE GRADED. WHEN TREES ARE REMOVED, THE ROOT SYSTEM SHALL ALSO BE REMOVED AND THE RESULTING EXCAVATION FILLED WITH PROPERLY COMPACTED FILL SOILS.
- ANY MAN-MADE STRUCTURES OR IMPROVEMENTS WITHIN THE GRADING LIMITS, THAT ARE NOT TO BE SAVED FOR FUTURE USE, SHOULD BE DEMOLISHED AND LEGALLY DISPOSED OFF-SITE. SUBSURFACE IMPROVEMENTS OR OBSTRUCTIONS THAT ARE TO BE REMOVED SHOULD BE EXCAVATED AND HAULED OFF-SITE. THE RESULTING EXCAVATIONS SHOULD BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT. MAN-MADE IMPROVEMENTS TO BE SAVED SHOULD BE PROTECTED FROM DAMAGE BY THE CONTRACTOR.
- CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF LOCATION OF EXISTING FACILITIES.
- THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- THE PAVEMENT SECTIONS SHOWN ON THESE PLANS ARE PRELIMINARY. FINAL PAVEMENT SECTIONS SHOULD BE DETERMINED ONCE SUBGRADE ELEVATIONS HAVE BEEN ATTAINED AND R-VALUE TESTING ON SUBGRADE SAMPLES IS PERFORMED.
- CUT AND FILL SLOPES SHALL BE TRIMMED TO THE FINISH GRADE TO PRODUCE A SMOOTH AND UNIFORM SURFACE OR CROSS-SECTION. THE SLOPES OF EXCAVATIONS OR EMBANKMENT SHALL BE SHAPED AND TRIMMED AS DIRECTED BY THE ENGINEER OF WORK AND LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, OR OTHER WASTE MATTER EXPOSED ON EXCAVATION OR EMBANKMENT SLOPE SHALL BE REMOVED AND DISPOSED OF.
- DURING CONSTRUCTION: THE CONTRACTOR SHALL PROPERLY GRADE ALL EXCAVATED SURFACES TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING OF WATER. CONTRACTOR SHALL CONTROL SURFACE WATER TO AVOID DAMAGE TO ADJOINING PROPERTIES OR TO FINISHED WORK ON THE SITE. THE CONTRACTOR SHALL TAKE REMEDIAL MEASURES TO PREVENT EROSION OF FRESHLY GRADED AREAS AND UNTIL SUCH TIME AS PERMANENT DRAINAGE AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED. AFTER COMPLETION, AFTER GRADING IS COMPLETED AND THE SOILS ENGINEER HAS FINISHED HIS OBSERVATIONS OF THE WORK, NO FURTHER EXCAVATION OR FILLING SHALL BE DONE EXCEPT UNDER THE OBSERVATION OF THE SOILS ENGINEER.
- CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS REQUIRED TO PROTECT ADJACENT PROPERTIES DURING THE GRADING OPERATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AGENCY APPROVAL OF THE ROUTE AND SITE LOCATION FOR EXPORT AND/OR IMPORT MATERIALS.
- REMEDIAL GRADING MAY BE NECESSARY TO REMOVE COMPRESSIBLE SOILS BENEATH STRUCTURES OR STRUCTURAL FILLS, BENEATH EXTERIOR FLATWORK AND PAVEMENT AREAS, OR WHEREVER THE EXISTING SOILS ARE DISTURBED DUE TO DEMOLITION OF EXISTING STRUCTURES OR IMPROVEMENTS. REMEDIAL GRADING SHOULD CONSIST OF COMPLETE REMOVAL OF COMPRESSIBLE SOILS UNTIL COMPETENT SOILS ARE EXPOSED. REMEDIAL EXCAVATIONS SHOULD INCLUDE ALL AREAS THAT WILL SUPPORT STRUCTURES, IMPROVEMENTS OR NEW FILLS. EXCAVATION BOTTOMS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER TO EVALUATE THE NEED FOR DEEPER REMOVALS.

**GENERAL NOTES**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, A LAND SURVEYOR SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF PERRIS FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
- THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK. THE PERMIT APPLICANT AND ALL THEIR REPRESENTATIVES OR CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY. ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CALIFORNIA DEPARTMENT OF FISH AND GAME. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.
- CONTRACTOR TO VERIFY EXACT PERIMETER OF DEMOLITION AND AREA OF WORK FOR THE PROJECT. AREA SHOWN IS APPROXIMATE.

**SPECIAL NOTES**

- ALL LANDSCAPE AREAS SHALL BE GRADED TO SLOPE AWAY FROM STRUCTURES AND PROPERTY LINES TOWARD LANDSCAPE DRAINAGE SWALES AND/ OR SITE DRAIN INLETS AT 2% MINIMUM GRADIENT (1% WHERE FLOW IS CONCENTRATED). SMOOTH FINISH GRADES TO ELIMINATE PONDING OR STANDING WATER.
- ALL LANDSCAPE DRAINS SHALL BE 4" MINIMUM CONSTRUCTED WITH RIGID BELOW GRADE PIPING WITH A 1% MINIMUM GRADIENT UNLESS OTHERWISE NOTED.
- LANDSCAPE DRAINS, CATCH BASINS, INLETS, ETC. SHOWN HEREON ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE COMPLETE DRAINAGE SYSTEMS AND ADJUST THE LAYOUT AS REQUIRED TO MATCH SITE CONDITIONS AND/ OR MINOR DISCREPANCIES WITH THESE PLANS.
- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO MAINTAIN PROPER DRAINAGE AND EROSION CONTROL DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY ENGINEER UPON THE DISCOVERY OF AREAS WHICH DO NOT DRAIN PROPERLY OR ANY OTHER DISCREPANCY OR AREA WHICH HAS NOT BEEN ADEQUATELY ADDRESSED AS A RESULT OF A FIELD CONDITION OR ANOMALY IN THE TOPOGRAPHY.
- HARDSCAPE GRADES SHALL BE 0.02' BELOW DRIP SCREED AT HIGHEST POINT NEAR STRUCTURE AND SHALL SLOPE AT A 1% MINIMUM GRADE TO DRAINS OR LANDSCAPE AREAS. HARDSCAPE SHALL SLOPE AND DRAIN AWAY FROM THE STRUCTURE UNLESS OTHERWISE NOTED.
- THE HIGHEST ADJACENT GRADE AGAINST STRUCTURE FOOTINGS SHALL BE PER THE LATEST CALIFORNIA BUILDING CODE AND GREEN BOOK STANDARDS.
- EARTHWORK QUANTITIES SHOWN HEREON ARE RAW QUANTITIES CALCULATED FOR PERMIT AND/OR BONDING PURPOSES ONLY. UNLESS NOTED, THEY DO NOT INCLUDE POTENTIAL SHRINKAGE OR BULKING FACTORS, REMEDIAL GRADING, FOOTING SPOILS, UTILITY TRENCH SPOILS, ETC. THE CONTRACTOR SHALL VERIFY QUANTITIES TO THEIR OWN SATISFACTION.
- THE LOCATIONS OF UNDERGROUND STRUCTURES AND UTILITIES SHOWN HEREON HAVE BEEN OBTAINED FROM AVAILABLE RECORDS FOR THE BENEFIT OF THE CONTRACTOR. THE DEPICTION OF UTILITIES SHOWN ON THESE PLANS DOES NOT CONSTITUTE A GUARANTEE OF THEIR EXACT LOCATION, DEPTH, SIZE, OR TYPE. EXACT LOCATION, DEPTH, TYPE AND SIZE SHOULD BE VERIFIED BY POTHOLING PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT ALL UNDERGROUND AND/OR OVERHEAD STRUCTURES AND/OR UTILITIES WHETHER OR NOT THEY ARE SHOWN HEREON. ALL DAMAGES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND AT THE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR SHALL NOTIFY DIGALERT OR UNDERGROUND SERVICE ALERT (USA) @ 811 AT LEAST TWO DAYS BEFORE START OF CONSTRUCTION.
- CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF WORK OF ANY DISCREPANCIES PRIOR TO START OF WORK.
- LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.
- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE & COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR AGREES TO DEFEND, INDEMNIFY AND HOLD THE JURISDICTIONAL AGENCY AND THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE JURISDICTIONAL AGENCY OR DESIGN PROFESSIONAL.
- NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS, THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. THE CONTRACTOR SHALL ENFORCE ALL SAFETY MEASURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT ALL SLOPES, STREETS, UTILITIES, AND STORM DRAINS ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULTS FROM HIS OPERATIONS BY APPROPRIATE MEANS (SAND BAGS, HAY BALES, TEMPORARY DESILTING BASINS, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHATEVER OWNER, AGENCY OR ASSOCIATION IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.
- CONTRACTOR SHALL NOTIFY THE LOCAL GAS & ELECTRIC UTILITY AGENCY PRIOR TO STARTING WORK NEAR AGENCY FACILITIES AND SHALL COORDINATE HIS WORK WITH AGENCY REPRESENTATIVES. NOTICE: ELECTRICAL AND GAS SERVICES MAY BE "UNDERGROUND INSTALLATIONS". USA WILL NOT HAVE ANY ON-SITE UNDERGROUND INFORMATION, CONTRACTOR SHALL SECURE SERVICES OF PRIVATE UTILITY LOCATOR SERVICE.
- THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER OR UTILITIES OR STRUCTURES PRIOR TO ANY EXCAVATION FOR VERIFICATION AND LOCATION OF UTILITIES.

**EROSION AND SEDIMENT CONTROL NOTES**

- CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT GRADING AND/OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD AND THE LOCAL AGENCY.
- GRADING FOR THE PROJECT SHOULD BE ENCOURAGED DURING THE DRY SEASON (APRIL 1 THROUGH OCTOBER 31). GRADING WHICH OCCURS DURING THE RAINY SEASON (OCTOBER 15 TO APRIL 15) SHALL REQUIRE EROSION CONTROL MEASURES.
- EMERGENCY EROSION CONTROL MEASURES ARE REQUIRED TO CONTROL SOIL MOVEMENT SATISFACTORY TO THE INSPECTOR IN THE EVENT THE SITE IS EXPOSED TO EROSION DURING THE PERIOD BETWEEN OCTOBER 15TH AND APRIL 15TH. EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, SLOPE PROTECTION, INSTALLATION OF JUTE MATING OR APPROVED EQUIVALENT, SILTING BASINS, SILT CONTROL, GRAVEL BAGGING AND STORM DRAINS.
- 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.
- THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE INSPECTOR AFTER EACH RUN-OFF PRODUCING RAINFALL.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE AGENCY PERSONNEL DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
- THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING, FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
- ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE INSPECTOR.
- TEMPORARY EROSION CONTROL DEVICES SHOWN ON GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
- GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
- THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
- ALL GRAVEL BAGS SHALL BE BURLAP TYPE WITH 3/4-INCH MINIMUM AGGREGATE
- FOR INLETS LOCATED AT SUMPS 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 1.0' 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.
- GRADED, DISTURBED, OR ERODED AREAS THAT WILL NOT BE PERMANENTLY PAVED, COVERED BY STRUCTURE, OR PLANTED FOR A PERIOD OVER 90 CALENDAR DAYS SHALL BE TEMPORARILY REVEGETATED WITH A NON-IRRIGATED HYDROSEED MIX, GROUND COVER, OR EQUIVALENT MATERIAL.

**TOPOGRAPHY SOURCE**

THE EXISTING TOPOGRAPHY AS SHOWN ON THESE PLANS IS BASED ON AN AERIAL MAP DONE BY SWS ENGINEERING ON 9/21/2020

**BASIS OF BEARINGS**

ASSUMED CL OF GLENOAKS BLVD.  
I.E. N 76°49'30" W

**BENCHMARK**

CITY OF GLENDALE BM814  
NAIL IN SOUTHERLY CURB GLENOAKS BLVD. 2.0 FT  
WESTERLY BCR SOUTHWESTERLY CORNER

**STANDARDS AND SPECIFICATIONS**

WORK SHOWN ON THE PLANS SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING DOCUMENTS:

- 2012 STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
- 2018 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK")
- 2019 CALIFORNIA BUILDING CODE

ANY CHANGE OR REVISIONS THEREFORE SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.

**CIVIL SHEET INDEX**

C1.0.....	GENERAL NOTES
C2.0.....	DEMOLITION PLAN
C3.0.....	GRADING PLAN
C4.0.....	UTILITY PLAN
C5.0.....	EROSION CONTROL PLAN
C6.0.....	DETAIL SHEET

**ABBREVIATIONS**

AC.....	ASPHALT CONCRETE	PIV.....	POST INDICATOR VALVE
AB.....	AGGREGATE BASE	PL.....	PROPERTY LINE
CB.....	CATCH BASIN	PA.....	PLANTED AREA
CF.....	CURB FACE	R/W.....	RIGHT-OF-WAY
CL.....	CENTERLINE	RD.....	ROOF DRAIN
CLR.....	CLEAR	S=.....	SLOPE
CO.....	CLEAN OUT	SD.....	STORM DRAIN
DDC.....	DOUBLE DETECTOR CHECK	SSPWC.....	STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION
EC.....	EDGE OF CONCRETE	SWR.....	SEWER
EX.....	EXISTING	SS.....	SANITARY SEWER
FDC.....	FIRE DPT CONNECTION	TC.....	TOP OF CURB
FF.....	FINISH FLOOR	TF.....	TOP OF FOOTING
FG.....	FINISH GRADE	TG.....	TOP OF GRADE
FS.....	FINISH SURFACE	TW.....	TOP OF WALL
FH.....	FIRE HYDRANT	TY.....	TYPICAL
FL.....	FLOW LINE	W.....	WATER
G.....	GAS	WM.....	WATER METER
GB.....	GRADE BREAK	WV.....	WATER VALVE
HP.....	HIGH POINT	NDS.....	NATION DIVERSIFIED SALES
IE.....	INVERT ELEVATION	SDR.....	PIPE SCHEDULE
LD.....	LOCAL DEPRESSION	HDPE.....	HIGH DENSITY POLYETHYLENE
LG.....	LIP OF GUTTER	SDRS.....	SAN DIEGO AREA REGIONAL STANDARD DRAWINGS
LP.....	LOW POINT	RCF.....	REINFORCED CONCRETE PIPE
MA.....	MAXIMUM	RCB.....	REINFORCED CONCRETE BOX
MH.....	MANHOLE	CASQA.....	CALIFORNIA STORMWATER QUALITY ASSOCIATION
MIN.....	MINIMUM	NFPA.....	NATIONAL FIRE PROTECTION ASSOCIATION



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



**SWS ENGINEERING, INC.**  
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Phone: 951-241-1011 • Fax: 951-241-1010  
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REVISIONS

DC | ARCHITECTS



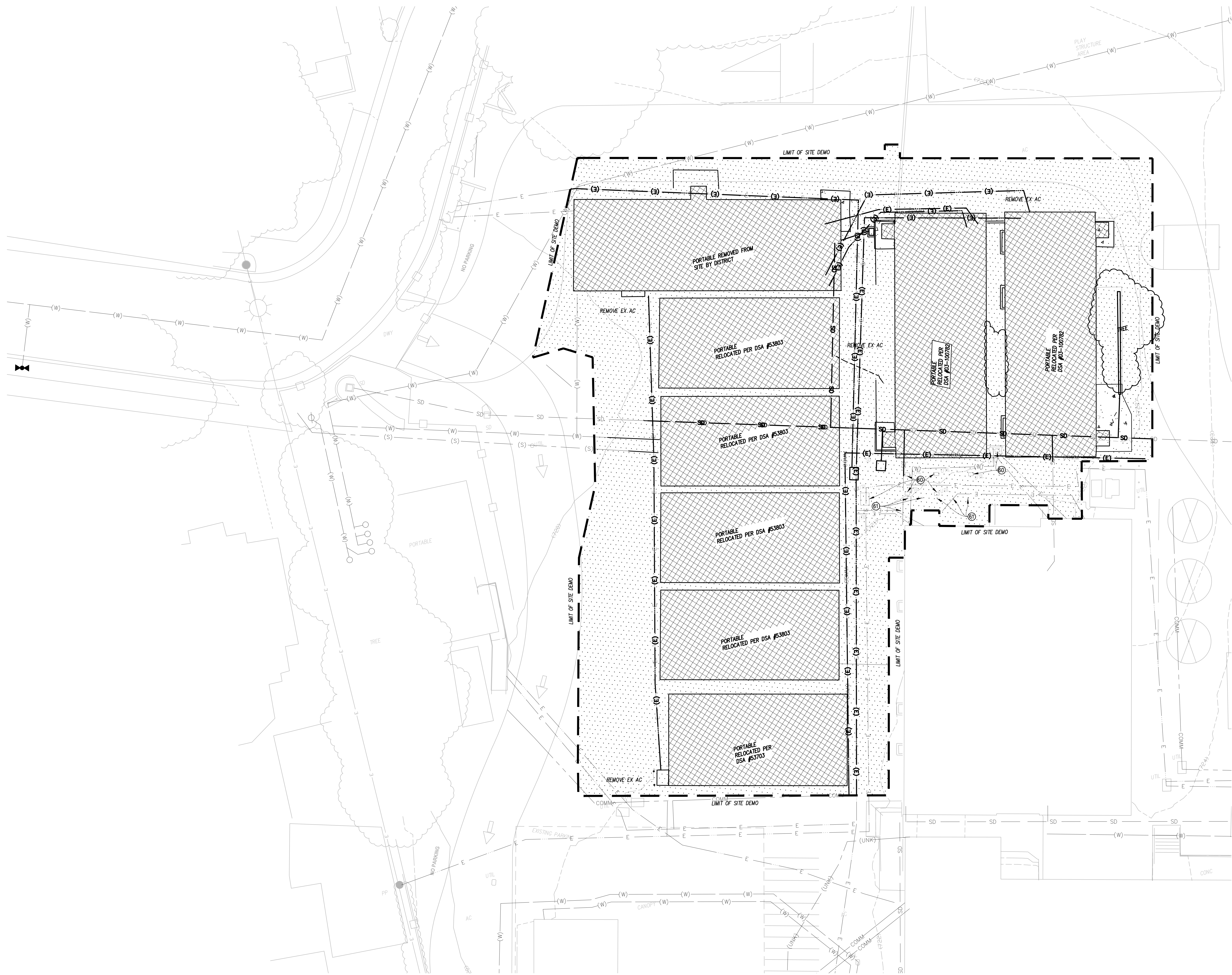
NEW 2 STORY BUILDING  
GLENOAKS ELEMENTARY SCHOOL  
2015 E. GLENOAKS BLVD.  
GLENDALE, CALIFORNIA 91206  
GLENDALÉ UNIFIED SCHOOL DISTRICT

GENERAL NOTES

NO. SHEETS	2019-206
COUNTY	CS
DATE	01.12.2021
SCALE	AS NOTED

C1.0

BID SET 10/01/2021

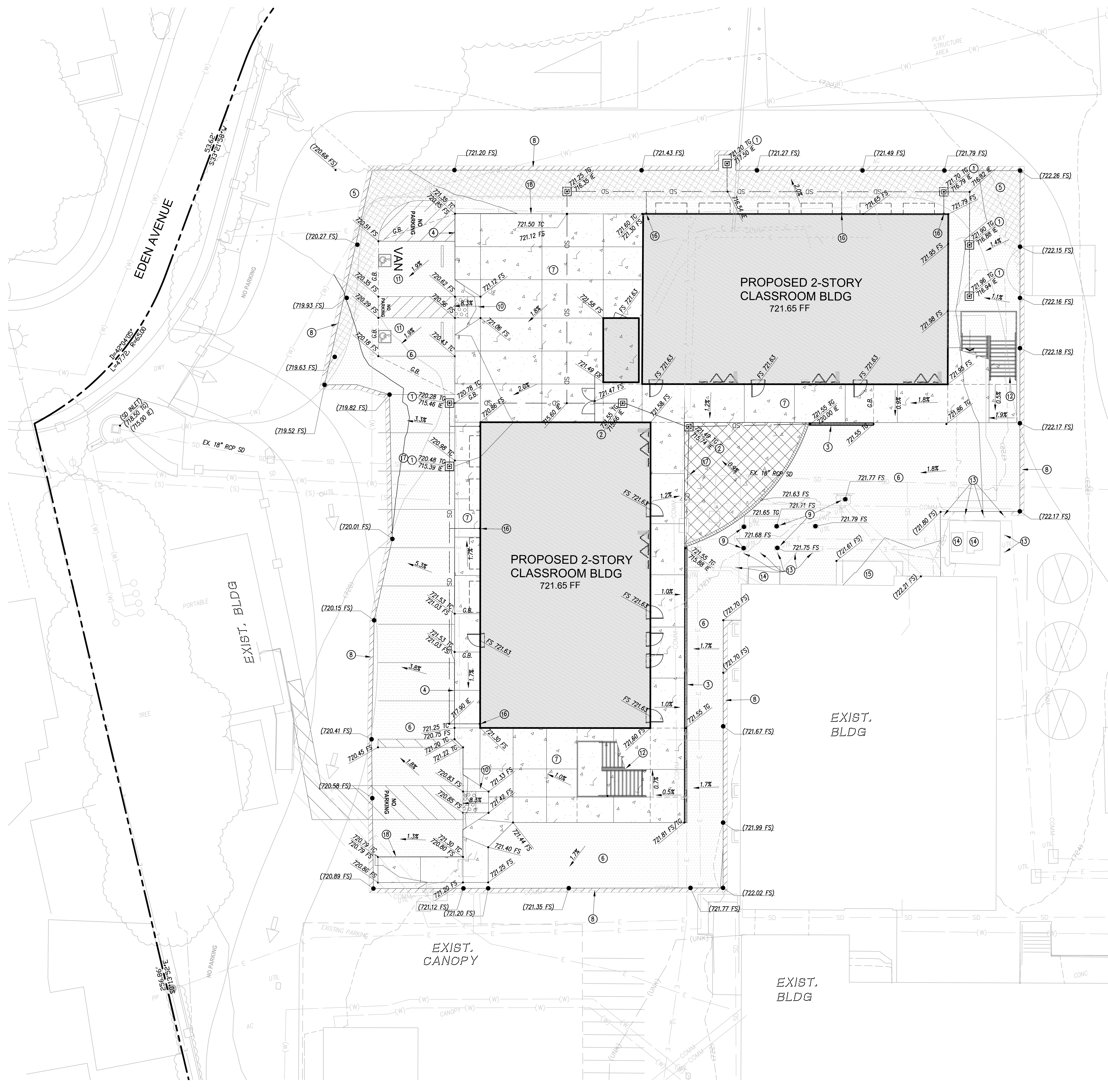


**DEMOLITION NOTES**

- REMOVED/RELOCATED EXISTING PORTABLE
- DEMO EXISTING CONCRETE
- DEMO EXISTING ASPHALT PAVEMENT
- CAP AND DEMO EXISTING STORM DRAIN LINE
- CAP AND DEMO EXISTING WATER LINE
- CAP AND DEMO EXISTING SEWER LINE
- CAP AND DEMO EXISTING ELECTRICAL CONDUIT
- DEMO EXISTING TRENCH DRAIN
- SAWCUT EXISTING PAVEMENT
- EXISTING UTILITY TO REMAIN
- EXISTING PIPE BOLLARDS TO REMAIN

**NOTE:**  
 NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING DEMOLITION WORK HAVE BEEN APPROVED BY DSA  
 EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. POT-HOLE IN THE FIELD IS REQUIRED FOR ANY UNDERGROUND UTILITY WORK. POT-HOLE TO IDENTIFY TYPE OF UTILITY, SIZE AND EXACT LOCATION.

	<p><b>SWS ENGINEERING, INC.</b>          CIVIL ENGINEERS • LAND PLANNERS • SURVEYORS          1031 East San Mateo Drive, Suite 200          Folsom, CA 95630 • P: 916-244-9101 • F: 916-244-9104  <small>REGISTERED PROFESSIONAL ENGINEER No. 9988 State of California</small></p>																														
	<p><b>DC ARCHITECTS</b>          NEW 2 STORY BUILDING          GLENOAKS ELEMENTARY SCHOOL          2015 E. GLENOAKS BLVD.          GLENDALE, CALIFORNIA 91206          GLENDALE UNIFIED SCHOOL DISTRICT</p>																														
<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>																															<p>(909) 965-6898 OFFICE          (909) 905-6884 FAX          820 N. MOUNTAIN AVENUE          SUITE 200          UPLAND, CA 91786</p>
<p>DEMOLITION PLAN</p>	<p>SCALE IN FEET          GRAPHIC SCALE</p> <p>0 5 10 20 30</p>																														
<p>C2.0</p>	<p>DATE: 01.12.2021          SCALE: AS NOTED</p>																														



**CONSTRUCTION NOTES**

- ① 12" x 12" INLET W/ TRAFFIC RATED ADA COMPLIANT GRATE PER DETAIL 15, SHEET C6.0
- ② 12" x 12" INLET W/ PEDESTRIAN ADA COMPLIANT GRATE PER DETAIL 15, SHEET C6.0
- ③ TRENCH DRAIN PER DETAIL 3 SHEET C6.0
- ④ 6" VERTICAL CURB PER DETAIL 2 SHEET C6.0
- ⑤ 4" AC / 4" AB - FIRE TRUCK RATED PAVEMENT SECTION OVER 12" 95% COMPACTED SUBGRADE
- ⑥ 3" AC / 4" AB - PARKING/DRIVE AISLE RATED PAVEMENT SECTION OVER 12" 95% COMPACTED SUBGRADE
- ⑦ 4" PCC SIDEWALK W/ #4 BARS @ 24" O.C. EACH WAY
- ⑧ 1" GRIND AND OVERLAY PER DETAIL 13 SHEET C6.0
- ⑨ EXISTING UTILITIES, RAISE TO GRADE
- ⑩ ADA RAMP PER DETAIL 14 SHEET C6.0
- ⑪ ADA STALL, STRIPING AND SIGNAGE PER ARCHITECTURAL PLANS
- ⑫ STAIRS PER ARCHITECTURAL PLANS
- ⑬ EXISTING BOLLARDS, PROTECT IN PLACE
- ⑭ EXISTING ELECTRICAL TRANSFORMER, PROTECT IN PLACE
- ⑮ EX STAIRS, PROTECT IN PLACE, MATCH FS @ BOTTOM STEP
- ⑯ 4" PVC DOWNSPOUT CONNECTION, SEE BUILDING PLANS FOR CONTINUATION
- ⑰ CONNECT TO EXISTING STORM DRAIN PIPE. CONTRACTOR TO POT HOLE EXIST. SD LINE TO CONFIRM IE ELEVATIONS AND COORDINATE W/ ENGINEER
- ⑱ VARIABLE HEIGHT CURB
- ⑲ EXISTING GATE AND FENCE TO REMAIN

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NEW 2 STORY BUILDING  
 GLENOAKS ELEMENTARY SCHOOL  
 2015 E. GLENOAKS BLVD.  
 GLENDALE, CALIFORNIA 91206  
 GLENDALE UNIFIED SCHOOL DISTRICT

DRAWING NO.	2019-026
DATE	01/12/2021
SCALE	AS NOTED
PROJECT	C3.0

**C3.0**

**BID SET 10/01/2021**

**NOTES FOR UNDERGROUND PIPING FOR PRIVATE HYDRANTS AND SPRINKLERS**

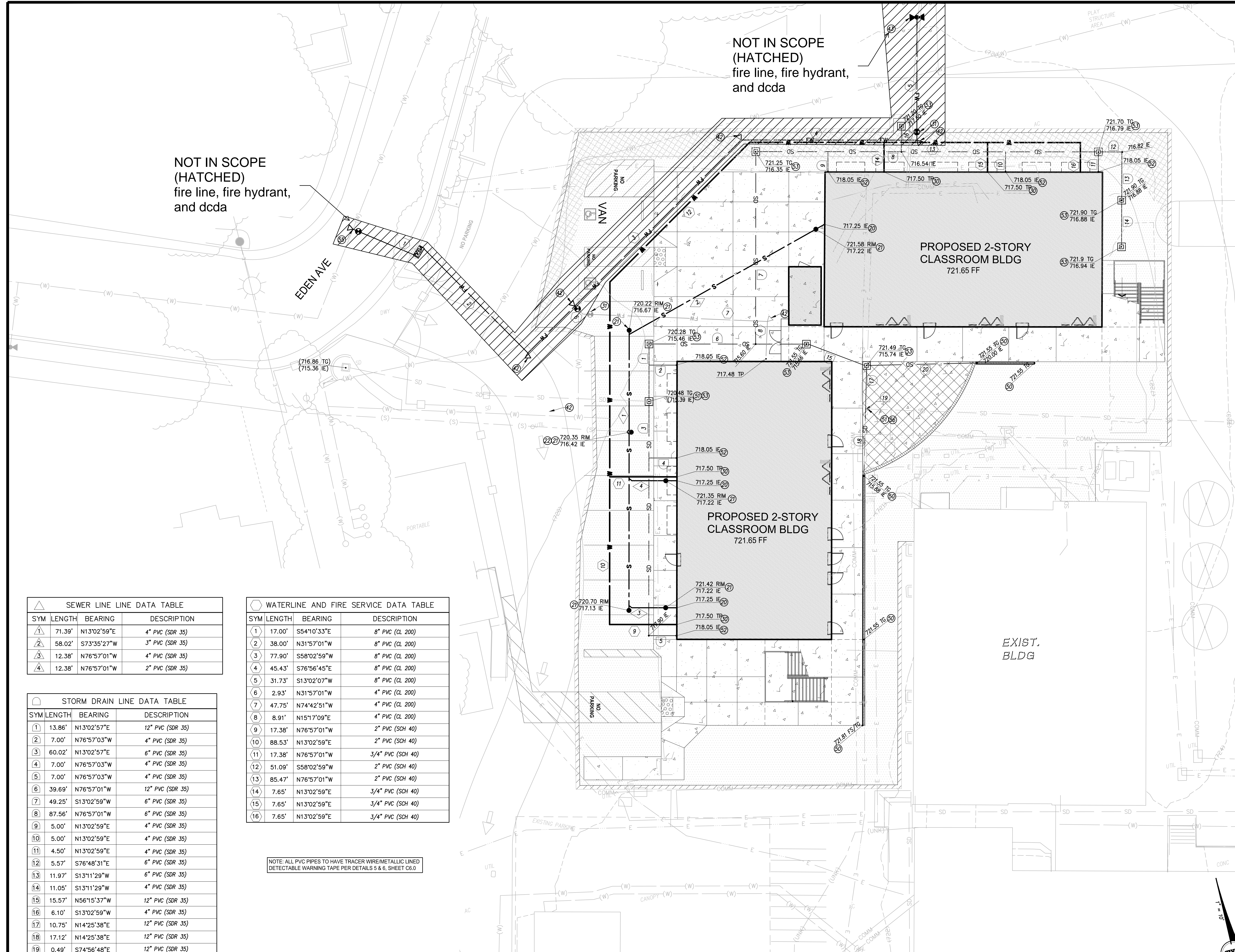
- PRIOR TO INSTALLATION, ALL PLANS AND SPECIFICATIONS SHALL BE APPROVED BY DSA. REFER TO DSA IR A-25 FOR DESIGN, INSTALLATION AND MAINTENANCE GENERAL REQUIREMENTS.
- INSPECTIONS ARE REQUIRED: 1) PRIOR TO POURING THRUST BLOCKS, 2) FOR HYDROSTATIC TESTING, AND 3) FOR FLUSH.
- INSTALLATION, INSPECTION, AND TESTING SHALL CONFORM TO 2019 EDITIONS OF NFPA 13 AND NFPA 24.
- PRIVATE FIRE HYDRANTS SHALL BE APPROVED WET BARREL STYLE WITH A MINIMUM OF ONE 2 1/2" AND ONE 4" OUTLET. THE 4" OUTLET SHALL FACE THE FIRE DEPARTMENT ACCESS ROAD. ALL OUTLETS SHALL BE PROVIDED WITH NATIONAL STANDARD THREADS (NST). NFPA 24, 7.1.1.2.
- FIRE HYDRANT SUPPLY PIPING SHALL BE A MINIMUM OF SIX INCHES IN DIAMETER. THE CENTER OF THE HOSE OUTLET SHALL BE NOT LESS THAN 18" ABOVE FINAL GRADE OR, WHERE LOCATED IN A HOSE HOUSE, 12" ABOVE THE FLOOR. NFPA 24, 7.1.1 & 7.3.3.
- FIRE HYDRANTS SHALL BE A MINIMUM OF 40 FEET FROM ALL STRUCTURES. NFPA 24, 7.2.3.
- A KEYS GATE VALVE SHALL BE PROVIDED FOR EACH HYDRANT IN AN ACCESSIBLE LOCATION. VALVES SHALL NOT BE LOCATED IN PARKING STALLS. NFPA 24, 7.1.1.1.
- ALL PIPING SHALL BE LISTED FOR USE IN FIRE PROTECTION SERVICE AND COMPLY WITH AWWA STANDARDS (CLASS 150 MINIMUM). CLASS 200 PIPE SHALL BE USED WHERE THE PRESSURE MAY EXCEED 150 PSI. NFPA 24, 10.1.1 & 5.
- ALL BOLTED JOINTS SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION RETARDING MATERIAL AFTER INSTALLATION. NFPA 24, 10.3.5.2.
- BACKFILL SHALL BE WELL TAMPED LAYERS TO CONSIST OF 6" MINIMUM BED OF CLEAN FILL SAND OR PEA GRAVEL BELOW AND 12" ABOVE THE PIPE (TOTAL 18" MINIMUM). NFPA 24, 10.3.1.
- FITTINGS SHALL BE OF AN APPROVED TYPE. NFPA 24, 10.2.1.
- A MINIMUM OF 30" OF COVER FROM FINISH GRADE TO THE TOP OF THE PIPE SHALL BE PROVIDED. WHEN SURFACE LOADS ARE EXPECTED, A MINIMUM OF 36" COVER SHALL BE PROVIDED. NFPA 24, 10.4.4.
- THRUST BLOCKS, OR OTHER APPROVED METHOD OF THRUST RESTRAINT, SHALL BE PROVIDED WHEREVER PIPE CHANGES DIRECTION. BACK-FILL BETWEEN THE JOINTS TO PREVENT MOVEMENT OF THE PIPE. PROVIDE DETAILS AND CALCULATIONS FOR SIZING THRUST BLOCKS BASED ON ACTUAL SOIL CONDITIONS. NFPA 24, 10.8.
- A HYDROSTATIC TEST (200 PSI FOR TWO HOURS OR 50 PSI OVER MAXIMUM STATIC PRESSURE, WHICHEVER IS GREATER) SHALL BE PERFORMED. NFPA 24, 10.10.2.2.1.
- THE SYSTEM SHALL BE THOROUGHLY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD PIPING. FLOW SHALL BE THROUGH A MINIMUM OF 4" HOSE OF PIPE. NFPA 24, 10.10.2.2.1.
- ALL CONTROL VALVES SHALL BE LOCKED IN THE OPEN POSITION. VALVES SHALL BE MONITORED IF THEY SERVE 20 OR MORE SPRINKLER HEADS. CBC/FC/903.4.
- ALL CONTROL VALVES SHALL BE LISTED INDICATING TYPE UNLESS A NON-INDICATING VALVE, SUCH AS AN UNDERGROUND GATE VALVE WITH APPROVED ROADWAY BOX COMPLETE WITH T-WRENCH, IS ACCEPTABLE TO AUTHORITY HAVING JURISDICTION (AHJ). NFPA 24, 6.1.1.
- POST INDICATING VALVES (PIV) SHALL BE TESTED TO INSURE THAT THE "TARGETS" (OPEN, CLOSED) ARE CLEARLY IDENTIFIED WHEN VALVE IS OPENED AND CLOSED. NFPA 24, 10.10.1 & 14.1.
- TESTS SHALL BE MADE BY THE INSTALLING CONTRACTOR IN THE PRESENCE OF THE (AHJ). PROVIDE A COMPLETED CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING TO DSA. NFPA 24, 10.10.1 & 14.1, CFC 901.5 & 6.

**UTILITY NOTES**

- THE LOCATIONS OF UNDERGROUND STRUCTURES AND UTILITIES SHOWN HEREON HAVE BEEN OBTAINED FROM AVAILABLE RECORDS FOR THE BENEFIT OF THE CONTRACTOR. THE LOCATION OF UTILITIES SHOWN ON THESE PLANS DOES NOT CONSTITUTE A GUARANTEE OF THEIR EXACT LOCATION, DEPTH, SIZE, OR TYPE. EXACT LOCATION, DEPTH, TYPE AND SIZE SHOULD BE VERIFIED BY POT-HOLING PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT ALL UNDERGROUND AND/OR OVERHEAD STRUCTURES AND/OR UTILITIES WHETHER OR NOT THEY ARE SHOWN HEREON. ALL DAMAGES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND AT THE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF WORK OF ANY DISCREPANCIES PRIOR TO START OF WORK.

**CONSTRUCTION NOTES**

- POINT OF CONNECTION - SEWER - SEE PLUMBING PLANS FOR CONTINUATION. CONSTRUCT CLEANOUT PER DETAIL 4, SHEET C6.0
- SEWER CLEANOUT PER DETAIL 4, SHEET C6.0
- CONNECT TO EXISTING SEWER. CONTRACTOR TO POTHOLE AND CONFIRM EXISTING INVERT AT POINT OF CONNECTION AND ELEVATIONS OF EXISTING UTILITY CROSSINGS PRIOR TO START OF CONSTRUCTION.
- POINT OF CONNECTION - WATER - SEE PLUMBING PLANS FOR CONTINUATION
- SHUT-OFF VALVE PER DETAIL 8, SHEET C6.0
- CONNECT TO EXISTING WATER
- POINT OF CONNECTION - FIRE - SEE SPRINKLER PLANS FOR CONTINUATION
- NOT USED
- THRUST BLOCK PER THRUST BLOCK TABLE ON SHEET C4.0 AND DETAIL 9, SHEET C6.0
- FIRE HYDRANT PER DETAIL 12, SHEET C6.0
- 4" NDS BG-FIBROTEC SLOPING TRENCH DRAIN W/ CLASS 'C' GALVANIZED STEEL HEEL-PROOF GRATE PER DETAIL 3, SHEET C6.0
- CONNECT TO EXISTING STORM DRAIN. CONTRACTOR TO POTHOLE AND CONFIRM EXISTING INVERT AT POINT OF CONNECTION AND ELEVATIONS OF EXISTING UTILITY CROSSINGS PRIOR TO START OF CONSTRUCTION.
- POINT OF CONNECTION - ROOF DRAIN DOWNSPOUT - SEE PLUMBING PLAN FOR CONTINUATION
- 12" X 12" CATCH BASIN PER DETAIL 15, SHEET C6.0
- TRENCH RESURFACING - P.C.C PER DETAIL 10, SHEET C6.0 & A.C. PER DETAIL 11, SHEET C6.0
- POINT OF CONNECTION - WATER MAIN. CONTRACTOR TO POTHOLE AND CONFIRM EXISTING INVERT AT POINT OF CONNECTION AND ELEVATIONS OF EXISTING UTILITY CROSSINGS PRIOR TO START OF CONSTRUCTION.
- 12" TEE WITH 18" INCREASER FOR CONNECTION TO EXISTING 18" RCP WITH A FERROCO 1006-1818 COUPLER OR APPROVED EQUAL ALTERNATE



**SEWER LINE LINE DATA TABLE**

SYM	LENGTH	BEARING	DESCRIPTION
1	71.39'	N13°02'59"E	4" PVC (SDR 35)
2	58.02'	S73°35'27"W	3" PVC (SDR 35)
3	12.38'	N76°57'01"W	4" PVC (SDR 35)
4	12.38'	N76°57'01"W	2" PVC (SDR 35)

**WATERLINE AND FIRE SERVICE DATA TABLE**

SYM	LENGTH	BEARING	DESCRIPTION
1	17.00'	S54°10'33"E	8" PVC (CL 200)
2	38.00'	N31°57'01"W	8" PVC (CL 200)
3	77.90'	S58°02'59"W	8" PVC (CL 200)
4	45.43'	S76°56'45"E	8" PVC (CL 200)
5	31.73'	S13°02'07"W	8" PVC (CL 200)
6	2.93'	N31°57'01"W	4" PVC (CL 200)
7	47.75'	N74°42'51"W	4" PVC (CL 200)
8	8.91'	N15°17'09"E	4" PVC (CL 200)
9	17.38'	N76°57'01"W	2" PVC (SCH 40)
10	88.53'	N13°02'59"E	2" PVC (SCH 40)
11	17.38'	N76°57'01"W	3/4" PVC (SCH 40)
12	51.09'	S58°02'59"W	2" PVC (SCH 40)
13	85.47'	N76°57'01"W	2" PVC (SCH 40)
14	7.65'	N13°02'59"E	3/4" PVC (SCH 40)
15	7.65'	N13°02'59"E	3/4" PVC (SCH 40)
16	7.65'	N13°02'59"E	3/4" PVC (SCH 40)

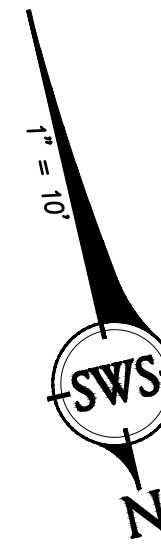
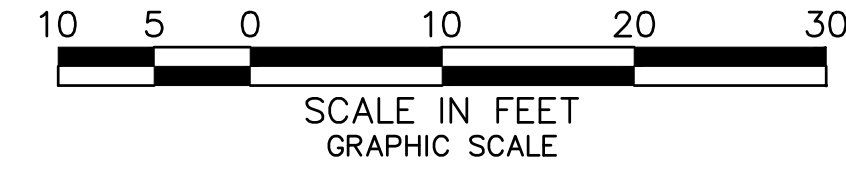
**STORM DRAIN LINE DATA TABLE**

SYM	LENGTH	BEARING	DESCRIPTION
1	13.86'	N13°02'57"E	12" PVC (SDR 35)
2	7.00'	N76°57'03"W	4" PVC (SDR 35)
3	60.02'	N13°02'57"E	6" PVC (SDR 35)
4	7.00'	N76°57'03"W	4" PVC (SDR 35)
5	7.00'	N76°57'03"W	4" PVC (SDR 35)
6	39.69'	N76°57'01"W	12" PVC (SDR 35)
7	49.25'	S13°02'59"W	6" PVC (SDR 35)
8	87.56'	N76°57'01"W	6" PVC (SDR 35)
9	5.00'	N13°02'59"E	4" PVC (SDR 35)
10	5.00'	N13°02'59"E	4" PVC (SDR 35)
11	4.50'	N13°02'59"E	4" PVC (SDR 35)
12	5.57'	S76°48'31"E	6" PVC (SDR 35)
13	11.97'	S13°11'29"W	6" PVC (SDR 35)
14	11.05'	S13°11'29"W	4" PVC (SDR 35)
15	15.57'	N56°15'37"W	12" PVC (SDR 35)
16	6.10'	S13°02'59"W	4" PVC (SDR 35)
17	10.75'	N14°25'38"E	12" PVC (SDR 35)
18	17.12'	N14°25'38"E	12" PVC (SDR 35)
19	0.49'	S74°56'48"E	12" PVC (SDR 35)
20	27.87'	N78°19'40"W	6" PVC (SDR 35)

NOTE: ALL PVC PIPES TO HAVE TRACER WIRE/METALLIC LINED DETECTABLE WARNING TAPE PER DETAILS 5 & 6, SHEET C6.0

**LEGEND**

- S - SEWER LINE PER 6/C7.0 (PVC SDR35)
- W - WATER LINE PER 6/C7.0 (PVC CL150), CONSTRUCT WITH 3" MIN COVER PER NFPA 24
- FS - FIRE SERVICE LINE PER 6/C7.0 (PVC CL200), CONSTRUCT WITH 3.5" MIN COVER
- SD - STORM DRAIN PER 6/C7.0 (PVC OR HDPE)
- - SEWER MANHOLE
- - SEWER CLEANOUT
- - THRUST BLOCK
- - FIRE HYDRANT
- - FIRE DEPARTMENT CONNECTION & POST INDICATOR VALVE
- - DETECTOR CHECK ASSEMBLY
- - TRENCH DRAIN
- - CATCH BASIN



**THRUST BLOCK TABLE**

PIPE (IN)	ANGLE (DEG)	HEIGHT (FT)	WIDTH (FT)	AREA (SF)	PIPE (IN)	ANGLE (DEG)	HEIGHT (FT)	WIDTH (FT)	AREA (SF)
4	11.25	1.0	1.0	1.0	8	11.25	1.0	2.0	2.0
4	22.5	1.0	1.1	1.1	8	22.5	1.9	2.0	3.8
4	45	1.1	2.0	2.2	8	45	2.0	3.7	7.4
4	90	1.9	2.0	3.8	8	90	2.7	5.1	13.6
4	TEE	1.4	2.0	2.8	8	TEE	2.3	4.2	9.7
6	11.25	1.0	1.1	1.1	10	11.25	1.4	2.0	2.8
6	22.5	1.1	2.0	2.2	10	22.5	2.0	3.0	6.0
6	45	2.0	2.2	4.4	10	45	2.4	4.7	11.3
6	90	2.0	4.0	8.0	10	90	3.2	6.4	20.5
6	TEE	2.0	2.8	5.6	10	TEE	2.7	5.4	14.6

**SWS ENGINEERING, INC.**  
 CIVIL ENGINEERING • LAND PLANNING • SURVEYING  
 1051 East San Mateo Drive, Suite 200  
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 P: 916.441.1111 F: 916.441.1100  
 www.sws-engineering.com

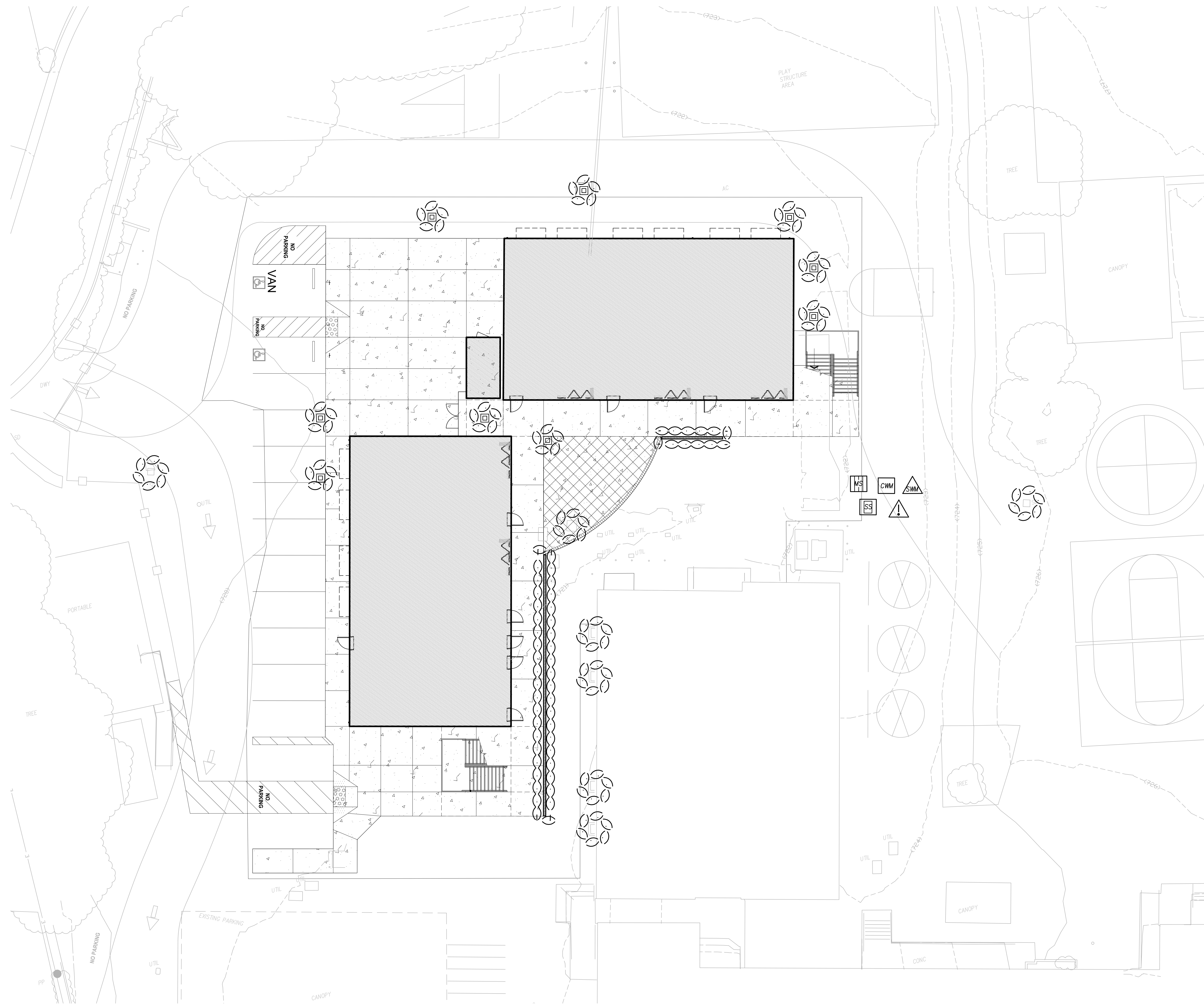
**DC ARCHITECTS**  
 820 N. MOUNTAIN AVENUE  
 SUITE 200  
 UPLAND, CA 91786  
 (909) 968-6888 OFFICE  
 (909) 968-6884 FAX

**NEW 2 STORY BUILDING**  
**GLENDALE ELEMENTARY SCHOOL**  
 2015 E. GLENDALE BLVD.  
 GLENDALE, CALIFORNIA 91206  
 GLENDALE UNIFIED SCHOOL DISTRICT

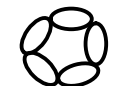




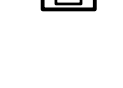
**UTILITY PLAN**  
 2018-06  
 DRAWING: CS  
 DATE: 01/20/21  
 SCALE: AS NOTED

**C4.0**

**BID SET 10/01/2021**



**EROSION CONTROL NOTES**

-  STORM DRAIN INLET PROTECTION (SE10)  
PER DETAIL 1 / C6.0
-  MATERIAL DELIVERY STORAGE (WM1)
-  SOLID WASTE MANAGEMENT (WM5)
-  HAZARDOUS WASTE MANAGEMENT (WM6)
-  CONCRETE WASTE MANAGEMENT (WM8)
-  SANITARY/SEPTIC WASTE MANAGEMENT (WM9)

NOTE: BMP DRAWING NUMBERS IN () REFER TO THE CALIFORNIA STORMWATER QUALITY ASSOCIATION'S BEST MANAGEMENT PRACTICES HANDBOOK, CONSTRUCTION.

**SWS ENGINEERING, INC.**  
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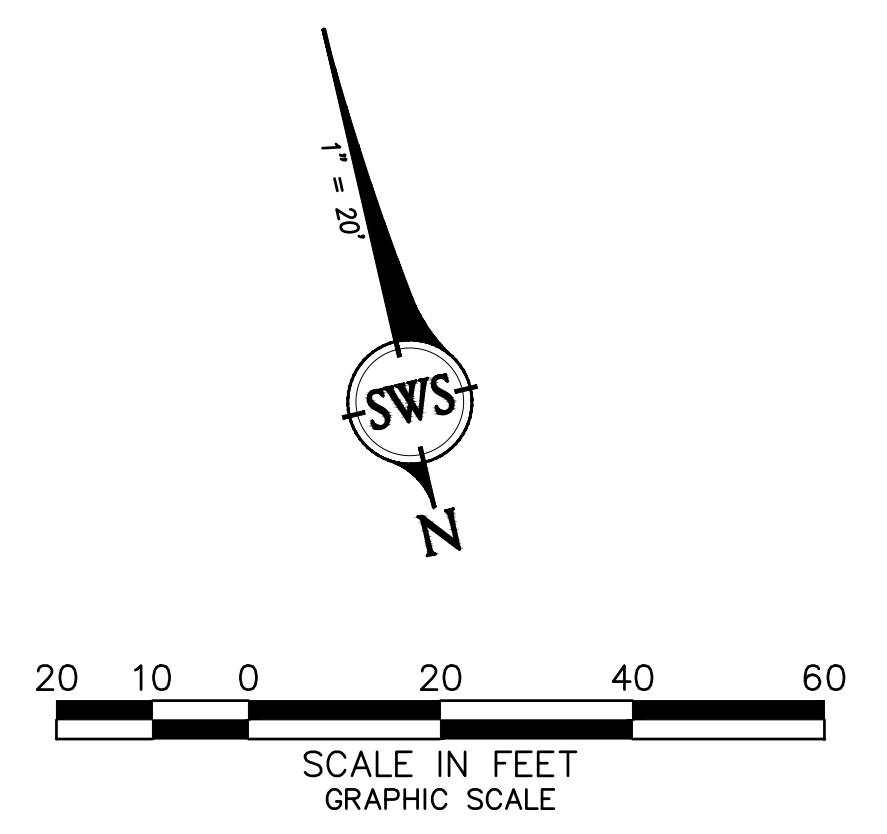
NO.	DATE	DESCRIPTION

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 SUITE 200  
 UPLAND, CA 91786  
 (951) 585-6833 OFFICE  
 (951) 505-6854 FAX

NEW 2 STORY BUILDING  
 GLENOAKS ELEMENTARY SCHOOL  
 2015 E. GLENOAKS BLVD.  
 GLENDALE, CALIFORNIA 91206  
 GLENDALE UNIFIED SCHOOL DISTRICT

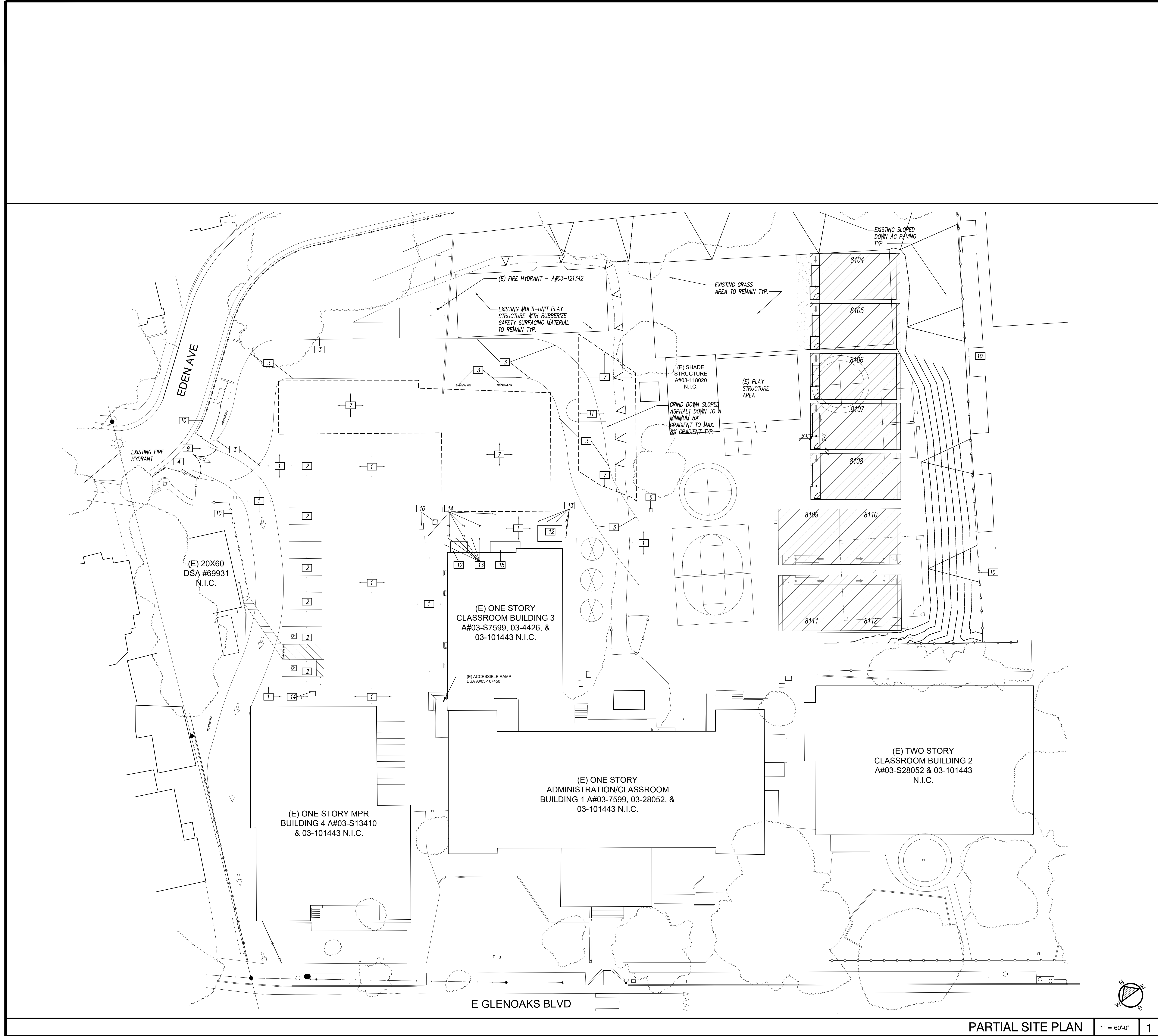
PROJECT NUMBER	2018-026
COUNTY	CS
DATE	01/12/2021
SCALE	AS NOTED

**C5.0**



**BID SET 10/01/2021**





- SITE KEY NOTES**
- EXISTING ASPHALT PAVING AND BASE TO BE REMOVED AND REPLACED WITH NEW ASPHALT PAVING AND BASE AND RE-GRADED TO THE CONTOURS/GRADE ELEVATIONS AS SHOWN ON THE CIVIL DRAWINGS AND SHEET A-1.1 PARTIAL ALTERATION SITE PLAN.
  - REMOVE ALL EXISTING ADA PARKING STRIPING AND SIGNAGE AND GENERAL PARKING STALLS. SEE SHEET A-1.1 PARTIAL ALTERATION SITE PLAN FOR NEW ADA PARKING LOCATION AND SIGNAGE AS WELL AS GENERAL PARKING STALLS.
  - EXISTING FIRE LANE STRIPING SHALL BE BLACKEN OUT AND ANY ASSOCIATED LETTERING ALONG THE FIRE LANE STATING "NO PARKING" SHALL ALSO BE BLACKEN OUT. SEE SHEET A-1.1 PARTIAL ALTERATION SITE PLAN FOR NEW FIRE LANE STRIPING AND NEW 12" HIGH LETTERS (LINES AND LETTER COLORS IN RED) "NO PARKING".
  - EXISTING KNOX PAD LOCKS ON ALL FIRE DEPT. ACCESS GATES AS PER FIRE DEPARTMENT REQUIREMENTS. INSPECTOR WILL PLACE AT WALK THRU FOR BUILDING FINAL. A KNOX BOX IS REQUIRED AT THE MAIN BUILDING.
  - NEW FIRE HYDRANT INSTALLED PER GLENDALE CITY OR COUNTY REGULATIONS AND CODES. SEE CIVIL DRAWINGS FOR FIRE HYDRANT INFORMATION AND DETAILS TYPICAL.
  - REMOVE EXISTING TREE TO INCLUDE ENTIRE ROOT SYSTEM AND PLANTER WELL. FILL IN WITH MINIMUM 3" OF ASPHALT PAVING OVER 6" CLASS II CALTRANS AGGREGATE BASE OR AS INDICATED ON SHEET A-1.1 OVERALL ALTERATION SITE PLAN AND CIVIL DRAWINGS.
  - EXCAVATE GRADE WHERE THE EXISTING PORTABLE BUILDINGS WERE REMOVED. DEPTH OF EXISTING EXCAVATION IS ANYWHERE FROM 12" TO 24". CONTRACTOR TO REMOVE AND ASPHALT AND SOIL FOR OVER-EXCAVATION FOR THE BUILDING FOUNDATIONS AND ELEVATOR FOUNDATION.
  - NOT USED
  - EXISTING CHAIN LINK GATE TO BE REMOVED TO INCLUDE GATE POST FOOTINGS. SEE A-1.1 ALTERATION SITE PLAN FOR NEW 20' BY 8' HIGH CHAIN LINK GATE AND FOOTING REQUIREMENTS TYPICAL.
  - EXISTING CHAIN LINK FENCE TO REMAIN. PROTECT IN PLACE.
  - EXISTING BASKETBALL POLE AND BACKBOARD WITH RING SHALL BE REMOVE AND REUSED AT A NEW LOCATION ON THE SITE. BREAK OFF ENTIRE EXISTING FOOTING FROM THE EXISTING POST. AT RELOCATED AREA, PLACED EXISTING POST INTO A NEW 12" DIAMETER BY 48" CONCRETE FOOTING. CROWN TOP OF FOOTING 1/4" TO CENTER OF POST. VERIFY RIM HEIGHT FROM THE TOP OF THE RIM TO THE FINISH SURFACE WITH THE DISTRICT PRIOR TO INSTALLATION TYPICAL.
  - EXISTING ELECTRICAL TRANSFORMERS/SWITCH GEAR AND CONCRETE PAD - PROTECT IN PLACE
  - EXISTING BOLLARDS - PROTECT IN PLACE
  - EXISTING UTILITIES - RAISE TO GRADE
  - EXISTING STAIRS AND HANDRAILS - PROTECT IN PLACE
  - REMOVE EXISTING UTILITIES - SEE CIVIL DRAWING FOR FURTHER INFORMATION

**SCOPE OF WORK**

NEW CONSTRUCTION OF A 2 STORY MODULAR TYPE VA CLASSROOM BUILDING WITH BOYS AND GIRLS RESTROOMS, EXTERIOR STAIRS, ANCILLARY SPACES, NEW PC ELEVATOR, PER PC-03-118291 & MECHANICAL ROOM, NEW ACCESSIBLE PARKING STALLS, NEW PARKING STALLS, FENCING, SITE CONCRETE/ASPHALT WALKWAYS, SITE SIGNAGE, UNDERGROUND UTILITIES CONNECTIONS TO THE BUILDING AND NEW BUILDING CONCRETE FOUNDATION SYSTEM WITH GROUND AIR VENTS.

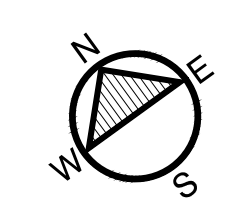
**SITE LEGEND / NOTES**

PORTABLE BUILDINGS PER DSA # 03-121342  
 EXISTING BUILDINGS

NOTE:  
REFER TO CIVIL/PLUMBING/ELECTRICAL DRAWINGS FOR ALL NEW UNDERGROUND UTILITIES TO BE IN STALLED AND/OR RELOCATED. CONTRACTOR SHALL PATCH AND REPAIR THE EXISTING SURFACE AND MATCH EXISTING FINISH SURFACE MATERIAL.

REVISONS
<p><b>DC ARCHITECTS</b></p> <p>820 N. MOUNTAIN AVENUE SUITE 200 UPLAND, CA 91786</p> <p>(951) 565-6838 OFFICE (951) 565-6887 FAX</p>
<p>NEW 2 STORY BUILDING GLENDALE ELEMENTARY SCHOOL 2015 E. GLENOAKS BLVD. GLENDALE, CALIFORNIA 91206 GLENDALE UNIFIED SCHOOL DISTRICT</p>
<p>PARTIAL DEMO SITE PLAN</p>
<p>DATE: 10.07.2021 DRAWN BY: [Signature] CHECKED BY: [Signature]</p>
<p>2019-206 00-00000</p>

E GLENOAKS BLVD







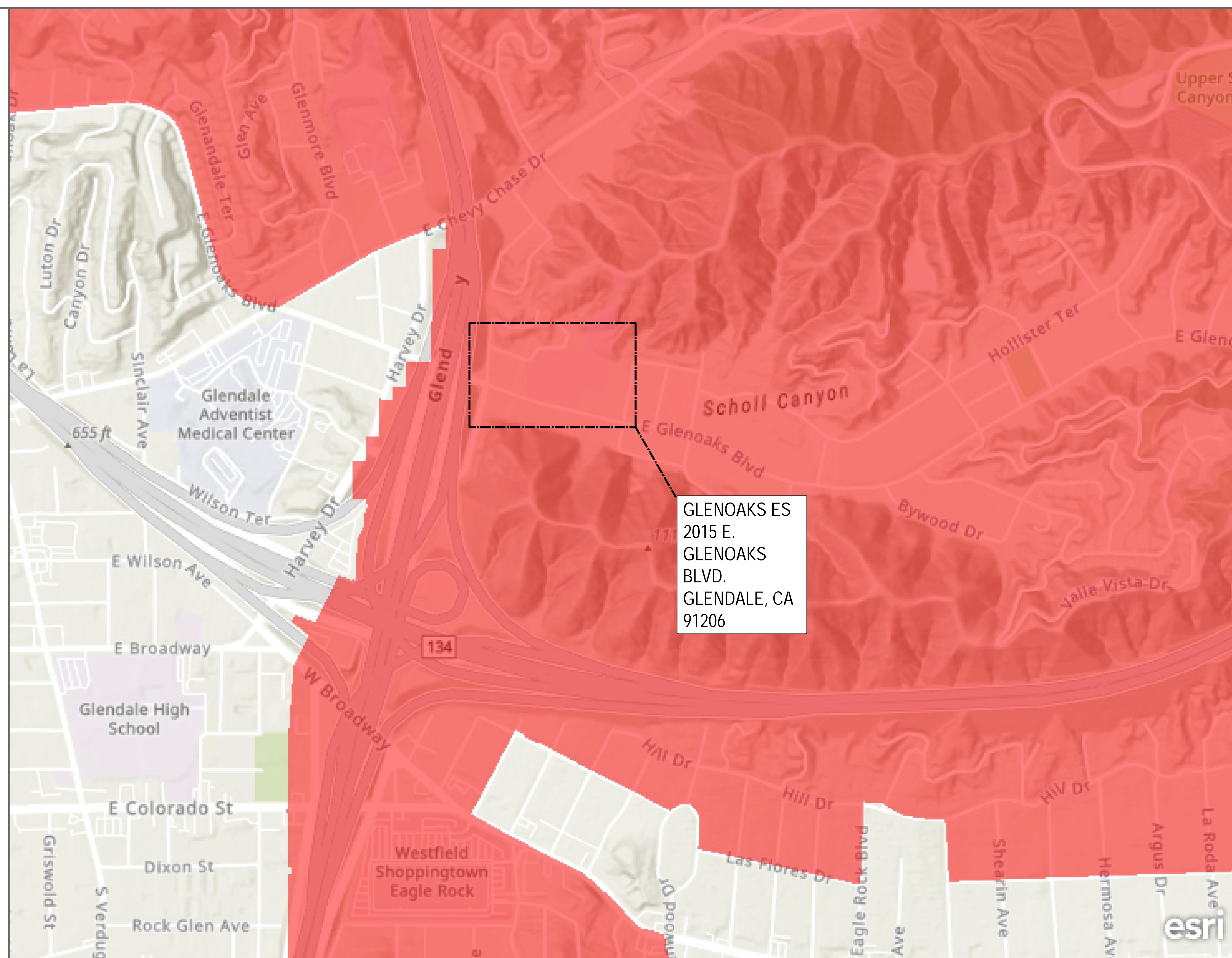
# My Map

## Hazards

### Fire Hazards

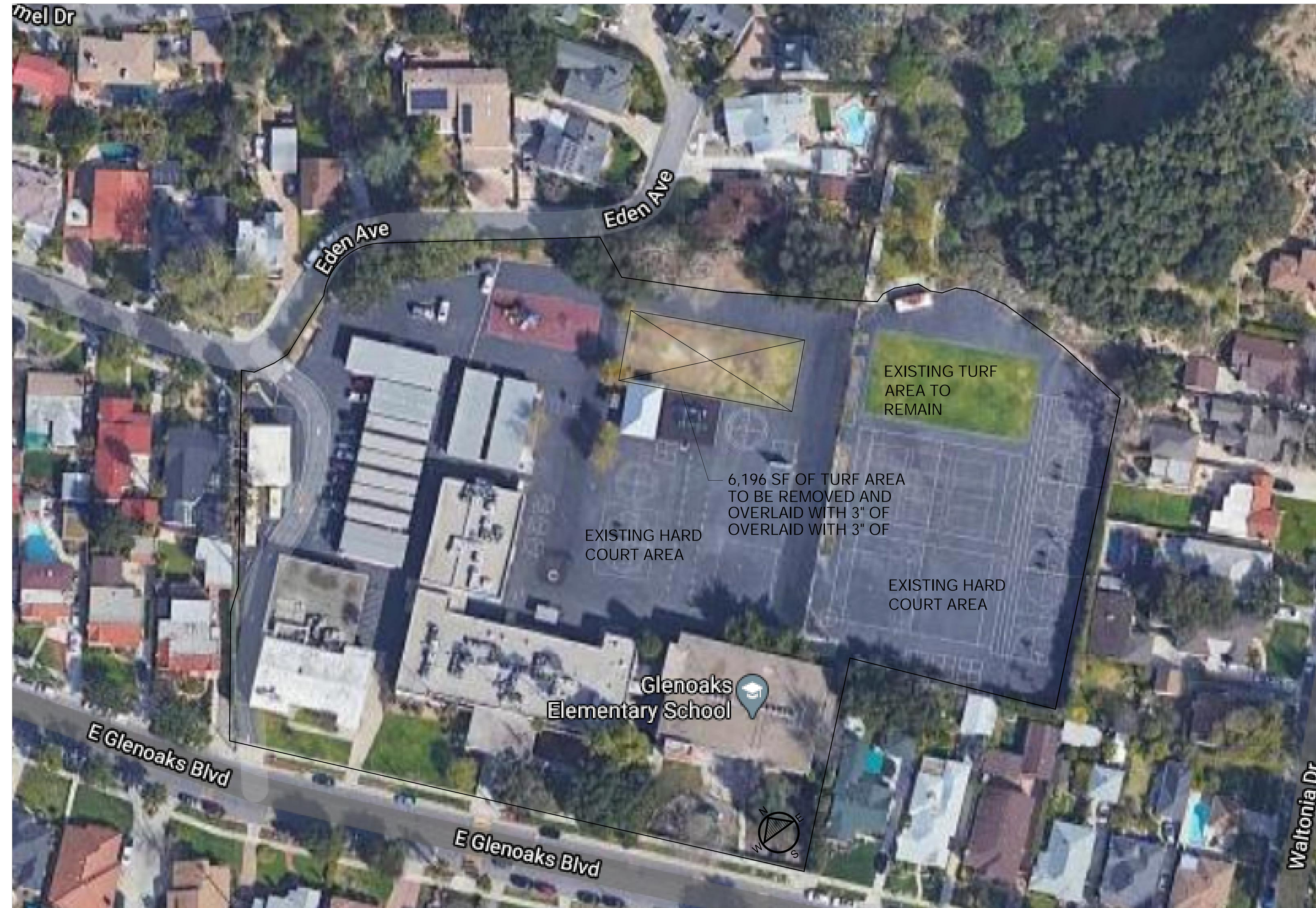
#### Fire Hazard Severity Zones

- Very High
- High
- Moderate



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REVISIONS					
DC   ARCHITECTS					
	820 N. MOUNTAIN AVENUE SUITE 200 UPLAND, CA 91786 (909) 985-6899 OFFICE (909) 985-6884 FAX	NEW 2 STORY BUILDING GLENOAKS ELEMENTARY SCHOOL 2015 E. GLENOAKS BLVD. GLENDALE, CALIFORNIA 91206 GLENDALE UNIFIED SCHOOL DISTRICT	FIRE HAZARD ZONE MAP	2019/02/6 COUNTY ACT DATE 10/07/2021 DRAWN BY 00/00000	A-1.0B



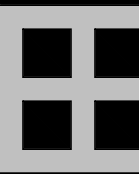
AREA OF SCOPE OF WORK FOR 2-STORY MODULAR BUILDING

DATE: 10/07/2021  
 SCALE: 1/8"=1'-0"  
 DRAWING NO: 00-000000

A-1.0C

OVERALL ARIEL SITE PLAN

NEW 2 STORY BUILDING  
 GLENOAKS ELEMENTARY SCHOOL  
 2015 E. GLENOAKS BLVD.  
 GLENDALE, CALIFORNIA 91206  
 GLENDALE UNIFIED SCHOOL DISTRICT



DC | ARCHITECTS

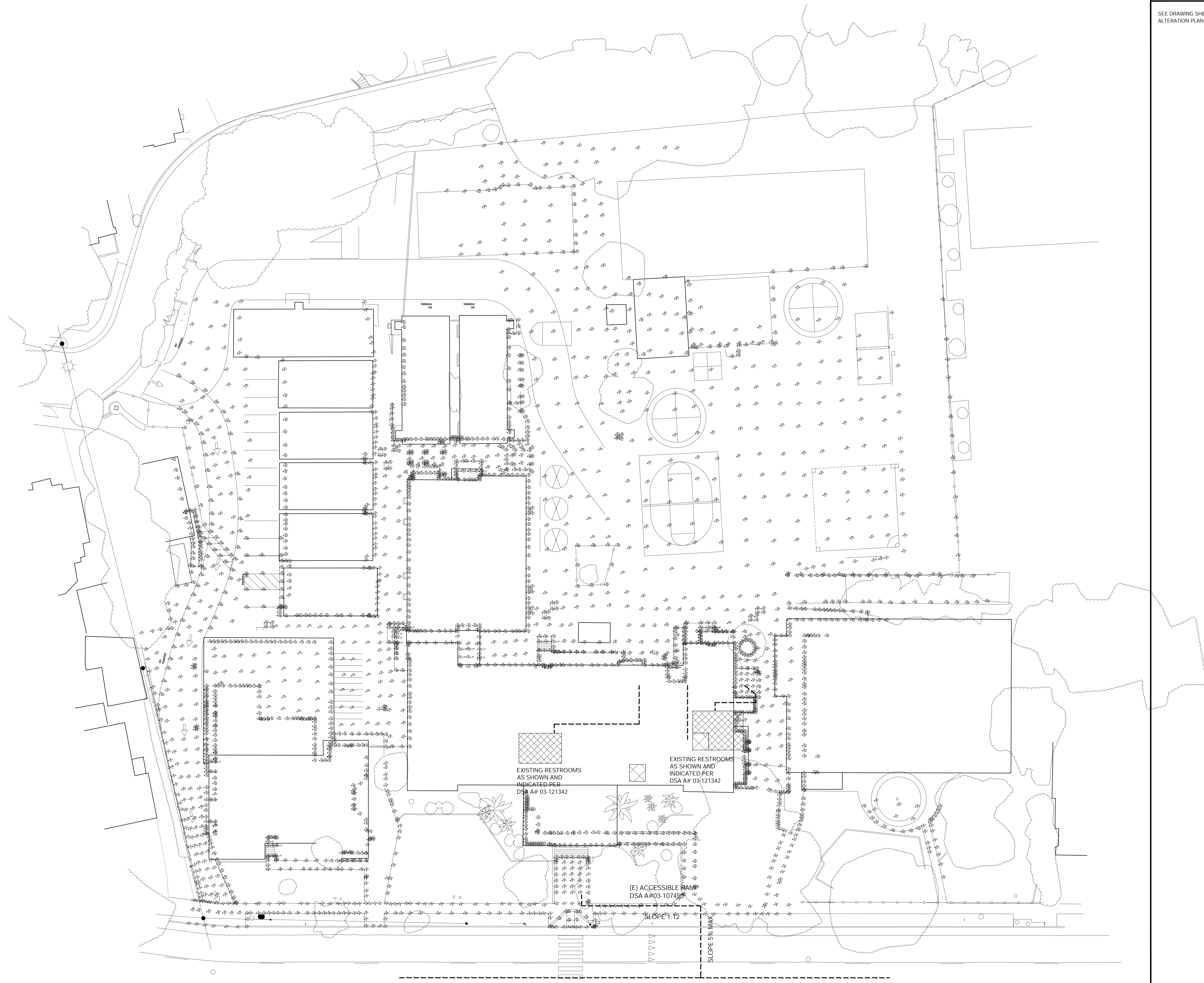
820 N. MOUNTAIN AVENUE  
 SUITE 200  
 UPLAND, CA 91786  
 (909) 965-6699 OFFICE  
 (909) 965-6664 FAX

REVISIONS

NO.	DESCRIPTION

GENERAL NOTES

SEE DRAWING SHEET A-1.0 AND A-1.1 FOR DEMOLITION AND SITE ALTERATION PLANS FOR SCOPE OF WORK



NO.	REVISIONS

**DC | ARCHITECTS**

820 N. MOUNTAIN AVENUE  
SUITE 200  
UPLAND, CA 91786

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(909) 985-6884 FAX

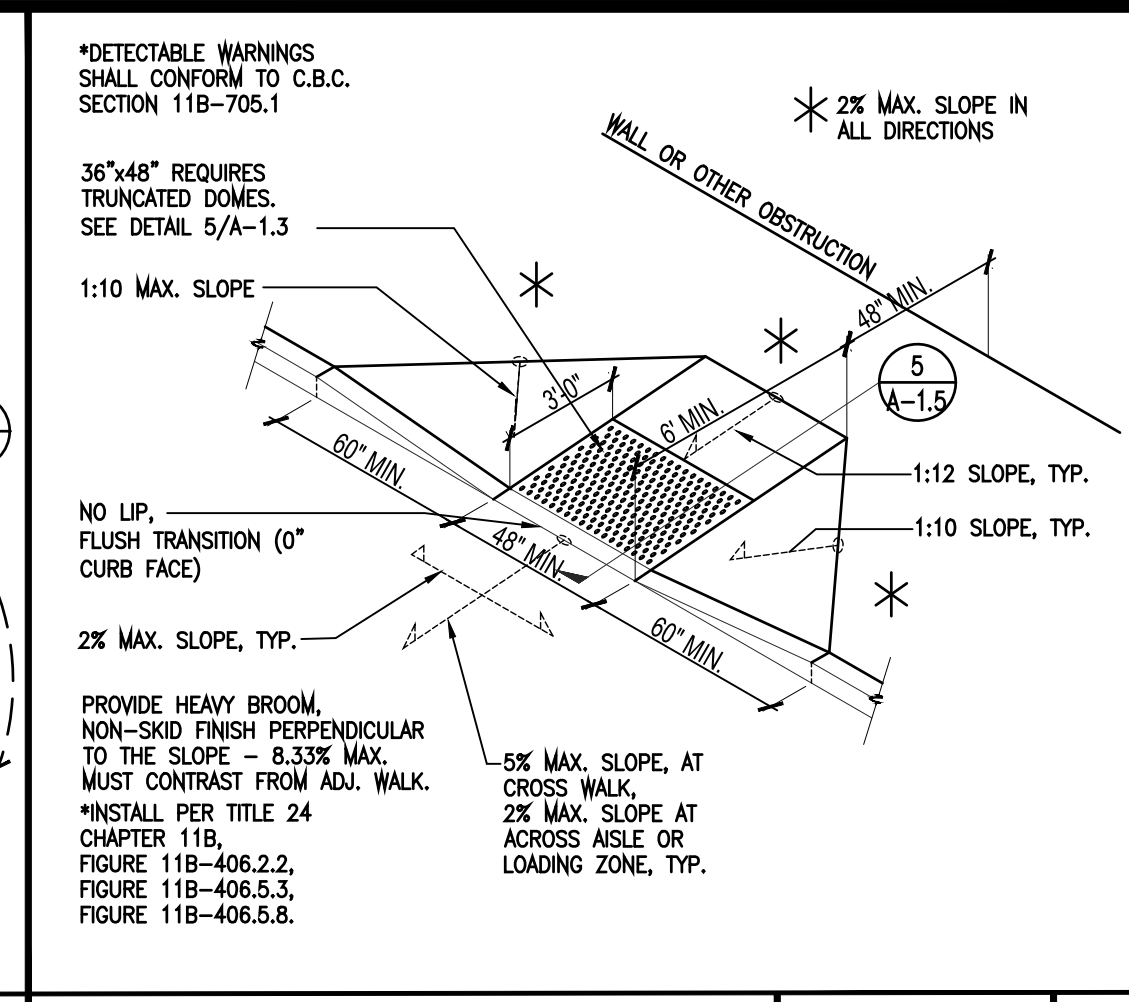
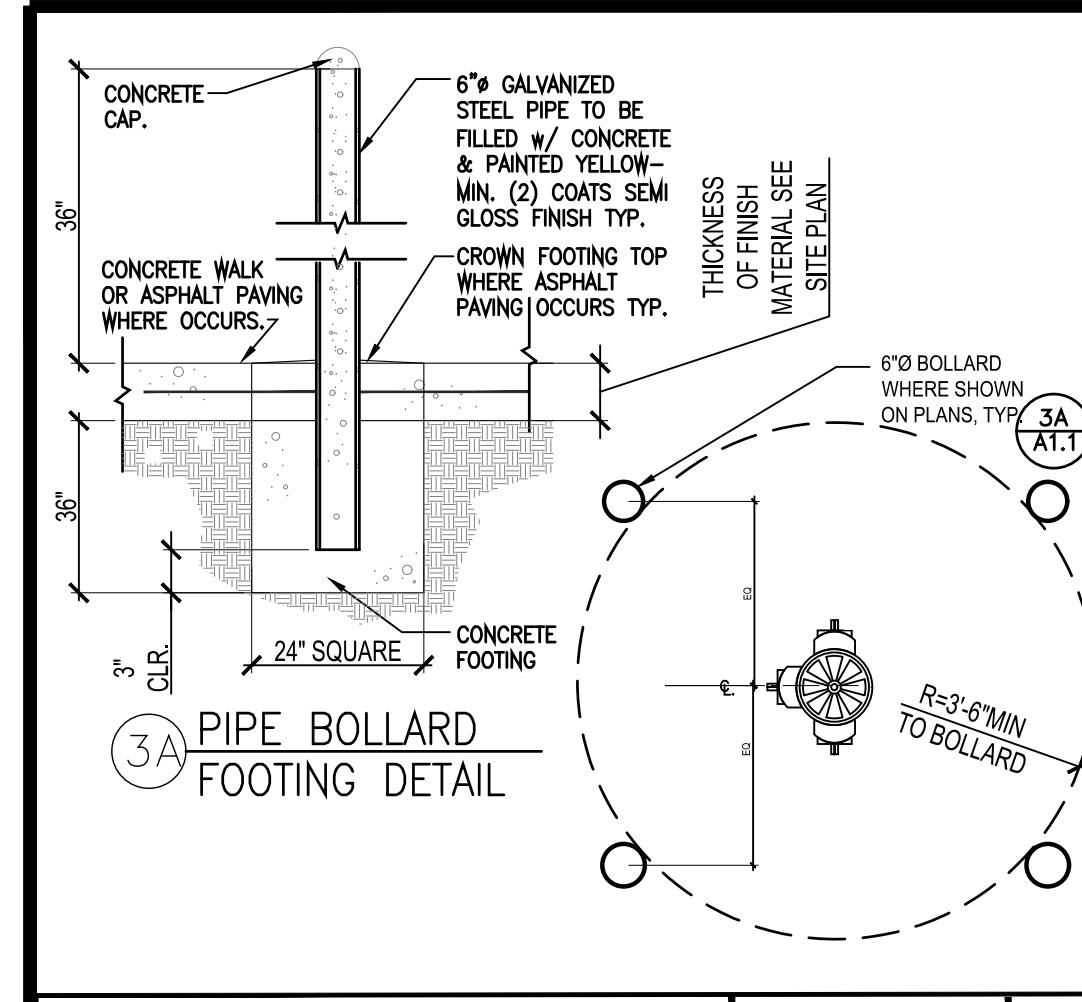
NEW 2 STORY BUILDING  
GLENDALE ELEMENTARY SCHOOL  
2015 E. GLENDALE BLVD.  
GLENDALE, CALIFORNIA 91206  
GLENDALE UNIFIED SCHOOL DISTRICT

PARTIAL SITE  
SURVEY PLAN

DATE PLOTTED	10/07/2021
DATE	10/07/2021
SCALE	AS SHOWN

A-1.0D

BID SET 10/01/2021



TYPICAL PIPE BOLLARD NO SCALE: 3

TYPICAL CURB RAMP NO SCALE: 2

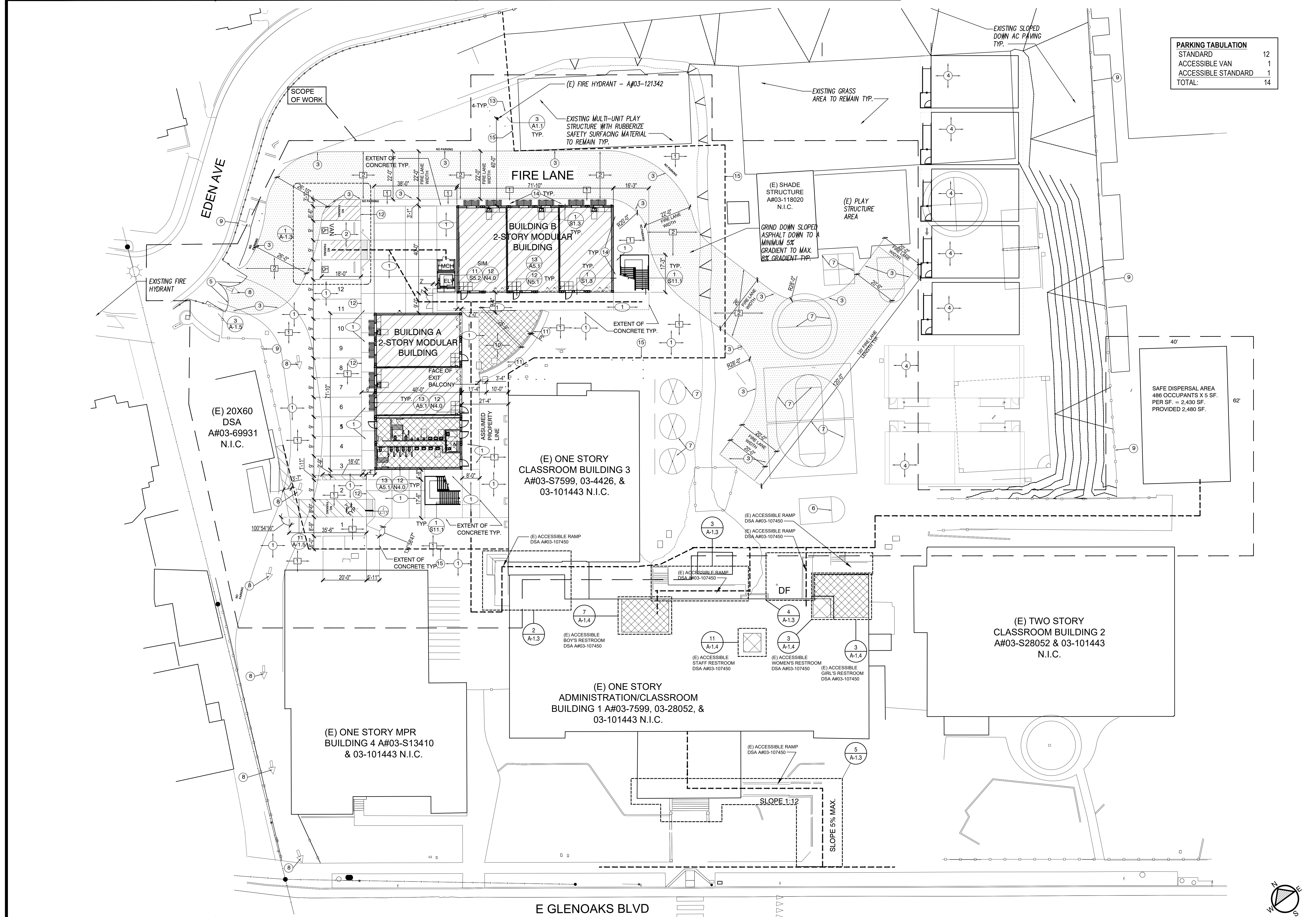
NOT USED NO SCALE: 1

BUILDING DATA				
BLDG.	DESCRIPTION	OCCUPANCY CONST. TYPE	TOTAL AREA	BASIC ALLOWABLE ACTUAL < ALLOWABLE
1	2 STORY MODULAR CLASSROOM	OCC "E" TYPE VA	*1ST FLR = 6,896 2ND FLR = 7,928 = 14,824 S.F.	74,000 S.F. 14,824 S.F < 74,000 S.F

BUILDING HEIGHT: TWO STORY  
AUTOMATIC FIRE SPRINKLER: YES

\* AREA CALCULATIONS INCLUDE EXIT BALCONIES AND BUILDING OVERHANGS.

- ### ALTERATION SITE PLAN KEY NOTES
- NEW MINIMUM 3" ASPHALT PAVING OVER MINIMUM 6" OF CLASS II CALTRANS AGGREGATE BASE. SEE ASPHALT PAVEMENT THICKNESS CHART AND OR CIVIL DRAWINGS FOR ACTUAL ASPHALT AND AGGREGATE BASE THICKNESS TYPICAL.
  - NEW VAN & ADA PARKING STALL.
  - NEW 3" WIDE STRIP PAINTED RED. PROVIDE 12" HIGH LETTERS (COLOR RED) STATING "NO PARKING".
  - TEMPORARY INTERIM PORTABLES LOCATIONS SET PER DSA # 03-121342.
  - NEW MINIMUM 20" WIDE CHAIN LINK GATE BY 8' HIGH. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
  - RELOCATED BASKETBALL POST, BACKBOARD AND RING. SET POST INTO NEW 12" DIAMETER BY 48" DEEP CONCRETE FOOTING. CROWN TOP OF FOOTING 1/4" TO CENTER OF POST. RING RIM HEIGHT FROM THE FINISH SURFACE TO THE TOP OF THE RIM SHALL BE DETERMINED BY THE DISTRICT. CONSULT WITH THE DISTRICT PRIOR TO INSTALLATION. LINE STRIP SHALL BE 2" WIDE PAINTED WHITE.
  - EXISTING HARDCOURT GAME LINES, BASKETBALL POLES/BACKBOARDS/RIMS TO REMAIN. PROTECT IN PLACE.
  - NEW DIRECTIONAL ARROWS FOR ONE-WAY VEHICLE EXIT FROM THE SITE TYPICAL. EXISTING DIRECTIONAL ARROWS SHALL BE REPAINTED MINIMUM ONE COAT TYPICAL.
  - EXISTING CHAIN LINK FENCE TO REMAIN. PROTECT IN PLACE TYPICAL.
  - NEW 2" SQUARE CONCRETE JOINTS EACH WAY WITH MEDIUM AGGREGATE FINISH. CONCRETE MINIMUM 4" THICK OVER 4" AGGREGATE BASE OR PER SOILS REPORT WITH # 3 BARS SPACED AT 18" O.C. TYPICAL.
  - NEW 6" WIDE CONCRETE BAND WITH A MEDIUM BROOM FINISH. BROOM FINISH SHALL RUN IN THE DIRECTION OF THE 6" BAND. FOR CONCRETE INFORMATION REFER TO NOTE # 10 THIS SHEET.
  - NEW 6" WIDE CONCRETE CURB. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION AND DETAILS TYPICAL.
  - NEW 18" DIAMETER BY 4" THICK CONCRETE BUTT TO THE BUILDING. PROVIDE MINIMUM 1/2" FIBROUS FELT PLACED TO THE SIDE OF THE BUILDING FOUNDATION AND LEAVE 1/2" TO 1/4" FROM THE TOP OF THE CONCRETE APRON. PROVIDE CONTINUOUS BEAD OF SIKAFLEX SEALANT. CONCRETE APRON TO RECEIVE A MEDIUM BROOM FINISH TYPICAL.
  - TEMPORARY 8' HIGH WITH FULL HEIGHT CANVAS SCREEN TO THE ENTIRE LENGTH OF THE FENCING. PROVIDE MINIMUM 1-VEHICLE GATE ENTRANCE AND 1-3 WIDE MAN GATE OR GENERAL ACCESS FOR CONSTRUCTION WORKER PERSONNEL.



- ### SCOPE OF WORK
- NEW CONSTRUCTION OF A 2 STORY MODULAR TYPE VA CLASSROOM BUILDING WITH BOYS AND GIRLS RESTROOMS, EXTERIOR STAIRS, ANCILLARY SPACES, ELEVATOR/MECHANICAL ROOM, NEW ACCESSIBLE PARKING STALLS, UNDERGROUND SITE UTILITIES POINTS OF CONNECTION, SITE WORK AND SITE CONCRETE/ASPHALT WALKWAYS.

- ### SITE LEGEND / NOTES
- TWO STORY PORTABLE BUILDING
  - EXISTING BUILDINGS
  - ACCESSIBLE PATH OF TRAVEL
  - GENDER NEUTRAL TOILET
  - BOYS/GIRLS TOILET
  - FIRE ACCESS LANE
  - DF (E) HI/LOW ACCESSIBLE DRINKING FOUNTAIN
- ### ASPHALT THICKNESS CHART
- TYPICAL AT ALL PAVED PARKING AREAS, VEHICLE DRIVE AREAS AND PLAYGROUND AREAS. PROVIDE NEW MINIMUM 3" ASPHALT PAVING OVER MINIMUM 4" OF CLASS II CALTRANS AGGREGATE BASE UNLESS NOTED OTHERWISE ON THE SITE PLAN AND OR AS STATED ON THE CIVIL DRAWINGS.
  - TYPICAL AT ALL PAVED FIRE LANES/TRUCK LANES, PROVIDE NEW MINIMUM 4" ASPHALT PAVING OVER MINIMUM 4" OF CLASS II CALTRANS AGGREGATE BASE UNLESS NOTED OTHERWISE ON THE SITE PLAN AND OR AS STATED ON THE CIVIL DRAWINGS.

- ### CONCRETE/WALKWAYS/SLAB CHART
- TYPICAL AT ALL PAVED WALKWAYS, EXTERIOR SLAB AREAS, PROVIDE NEW MINIMUM 5" CONCRETE PAVING OVER MINIMUM 4" OF CLASS II CALTRANS AGGREGATE BASE, REINFORCED WITH # 3 REINFORCING BARS SPACED AT 18" O.C. EACH WAY UNLESS NOTED OTHERWISE ON THE SITE PLAN AND OR AS STATED ON THE CIVIL DRAWINGS. PROVIDE MEDIUM BROOM FINISH, TYP.
  - TYPICAL AT ALL PAVED CONCRETE PADS, AT TRUCK OR FIRE LANES, AT CONCRETE PADS IN FRONT OF NEW TRASH ENCLOSURES, EXTERIOR ELECTRICAL SLAB AREAS, PROVIDE NEW MINIMUM 6" CONCRETE PAVING OVER MINIMUM 4" OF CLASS II CALTRANS AGGREGATE BASE, REINFORCED WITH # 3 REINFORCING BARS SPACED AT 18" O.C. EACH WAY UNLESS NOTED OTHERWISE ON THE SITE PLAN AND OR AS STATED ON THE CIVIL DRAWINGS. PROVIDE MEDIUM BROOM FINISH, TYP.

- ### GENERAL PATH OF TRAVEL ACCESSIBILITY NOTES
- DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT, THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND 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 POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCOMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.
  - ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGE NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP-RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FREE OF OBJECTS PROTRUDING MORE THAN 4" FROM THE WALL, ABOVE 27" AND LESS THAN 80" ABOVE THE FLOOR. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
  - GRATING LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY IN THE POT SHALL HAVE GRID/OPENINGS IN GRATING LIMITED TO 1/2" MAXIMUM CLEAR IN THE DIRECTION OF TRAVEL FLOW.

REVISONS

DC ARCHITECTS

820 N. MOUNTAIN AVENUE SUITE 200 UPLAND, CA 91786 (951) 955-6899 OFFICE (951) 955-6894 FAX

NEW 2 STORY BUILDING  
GLENOKS ELEMENTARY SCHOOL  
2015 E. GLENOAKS BLVD.  
GLENDALE, CALIFORNIA 91206  
GLENDALE UNIFIED SCHOOL DISTRICT

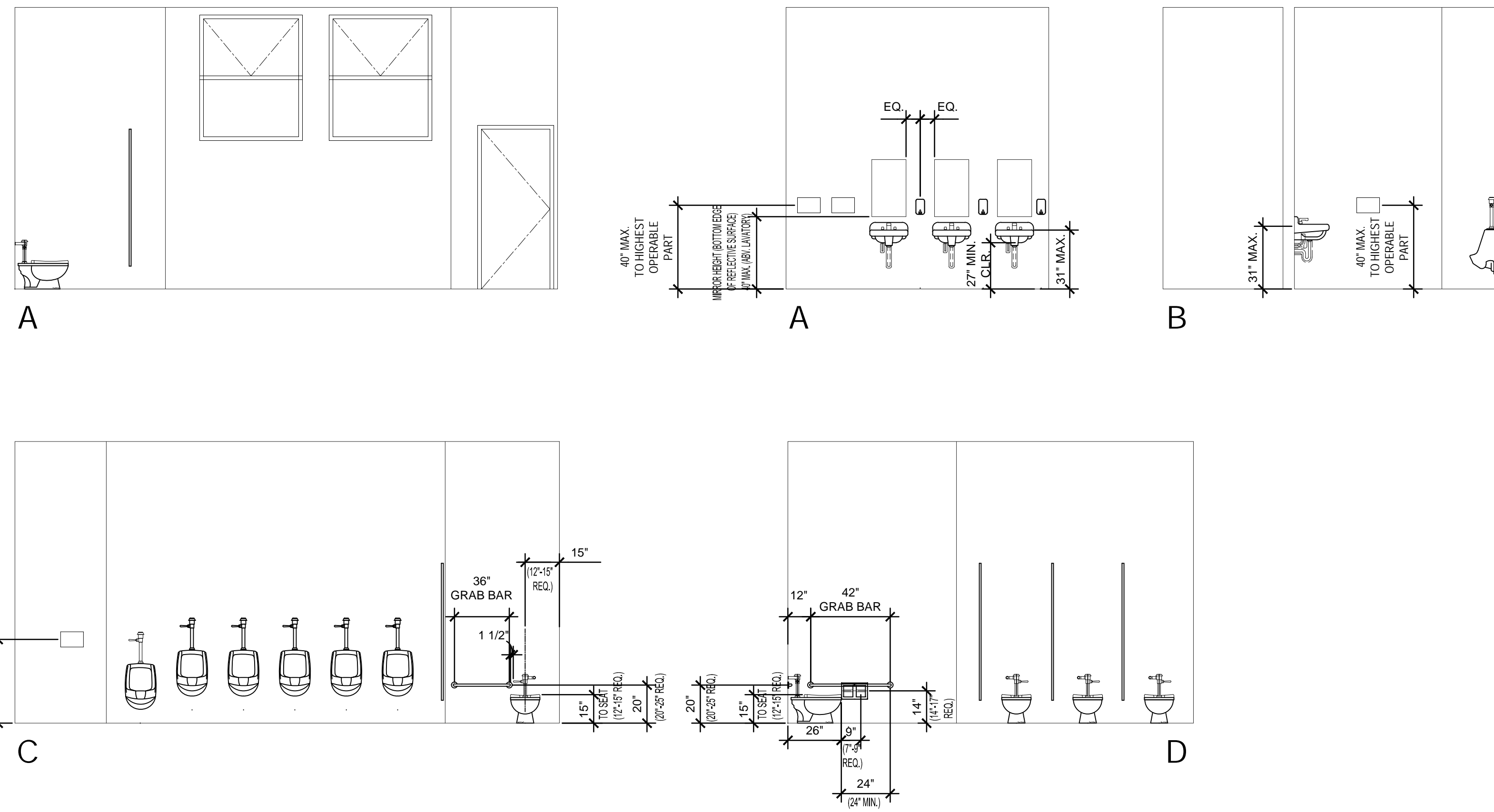
PARTIAL SITE ALTERATION PLAN  
2 STORY MODULAR CLASSROOM

2018-06  
DRAWN BY: A.C.T.  
DATE: 10.02.2017  
DRAWN BY: 00-00000

A-1.1



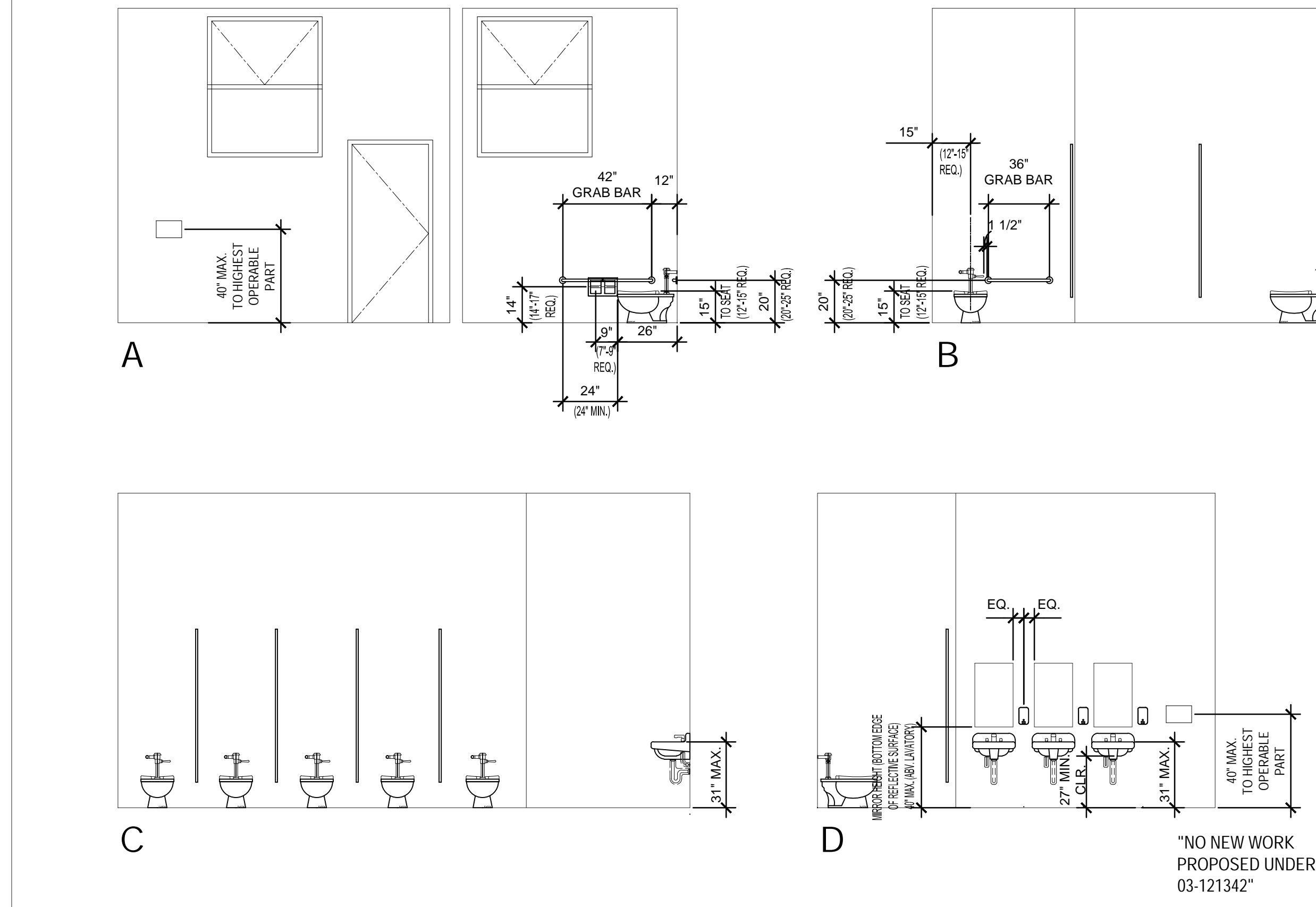




"NO NEW WORK PROPOSED UNDER 03-121342"

"NO NEW WORK PROPOSED UNDER 03-121342"

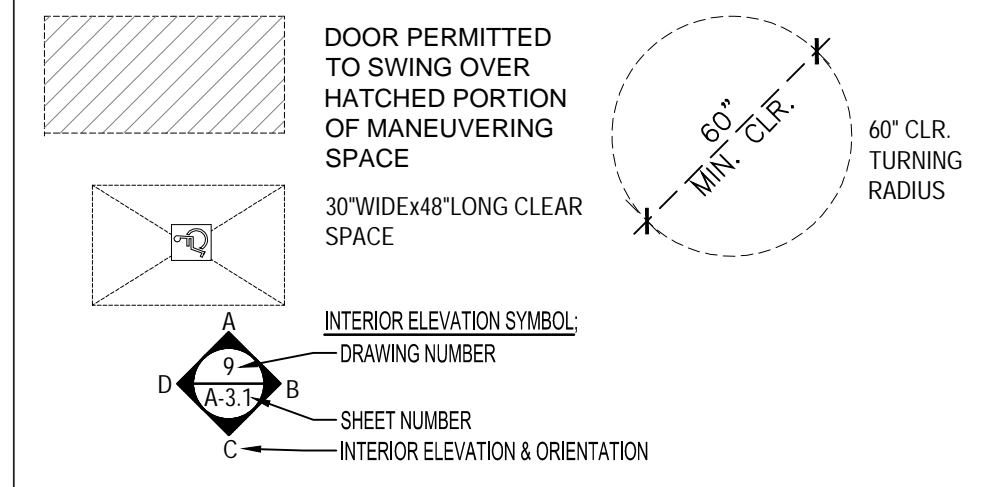
(E) BOY'S RESTROOMS ENLARGED FLOOR PLAN 1/4" = 1'-0" 8



"NO NEW WORK PROPOSED UNDER 03-121342"

(E) GIRL'S/STAFF WOMEN'S/STAFF MEN'S RESTROOMS ENLARGED FLOOR PLAN 1/4" = 1'-0" 4

LEGEND



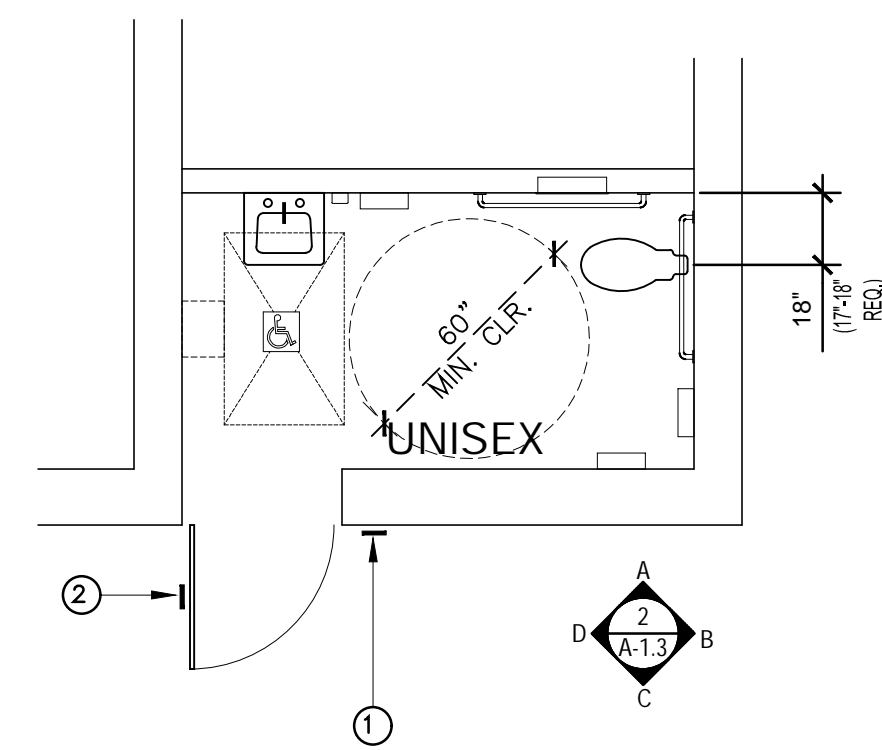
KEYNOTES

- 1 (E) ACCESSIBLE ROOM IDENTIFICATION SIGN
- 2 (E) ACCESSIBLE DOOR SIGN

GENERAL NOTES

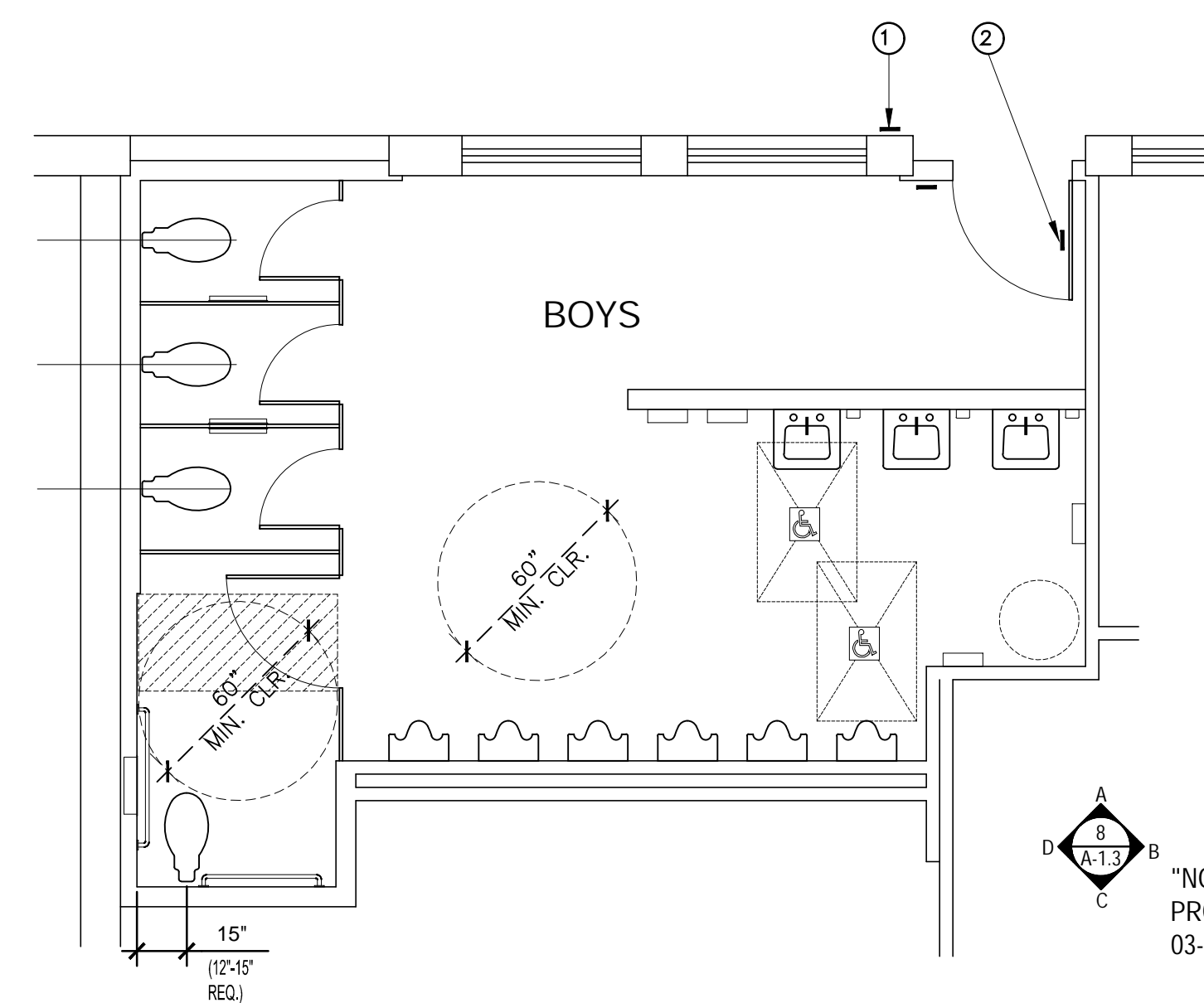
1. DEMOLISH FINISHES, AND WALL MATERIALS AT RESTROOM WALL ARE TO THE FACE OF STUDS (U.N.O.)
2. FOR ACCESSIBLE PLUMBING FIXTURE AND TOILET ACCESSORY MOUNTING HEIGHTS, REFER TO DETAIL 1208-10.4
3. TOILET ROOM ACCESSORIES TO BE AS SHOWN ON ACCESSORY CHART (THIS PAGE) OR APPROVED EQUAL, AS NOTED OTHERWISE IN THE SPECIFICATIONS

EXISTING RESTROOMS DSA A#107450



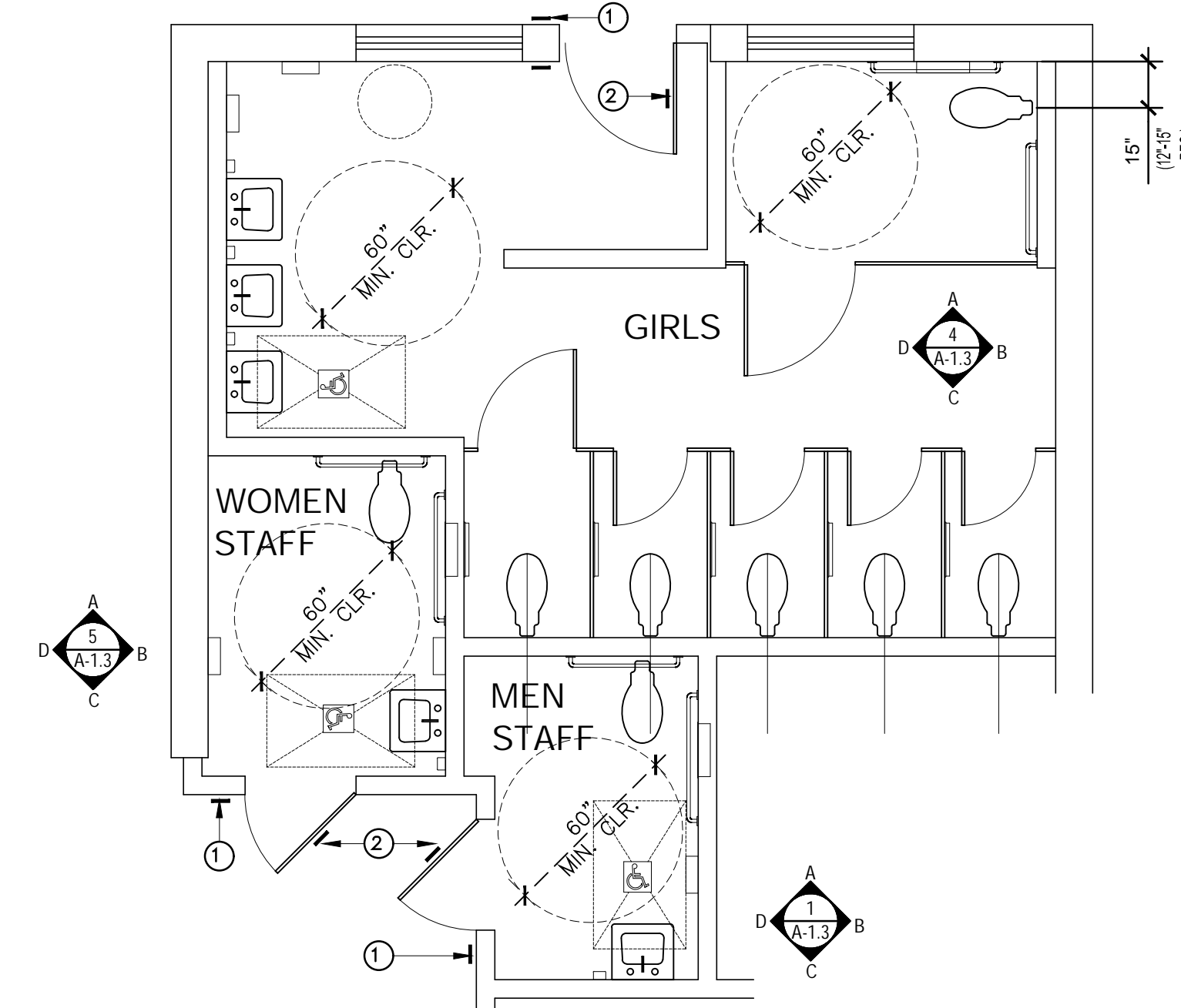
"NO NEW WORK PROPOSED UNDER 03-121342"

(E) UNISEX RESTROOM ENLARGED FLOOR PLAN 1/4" = 1'-0" 11



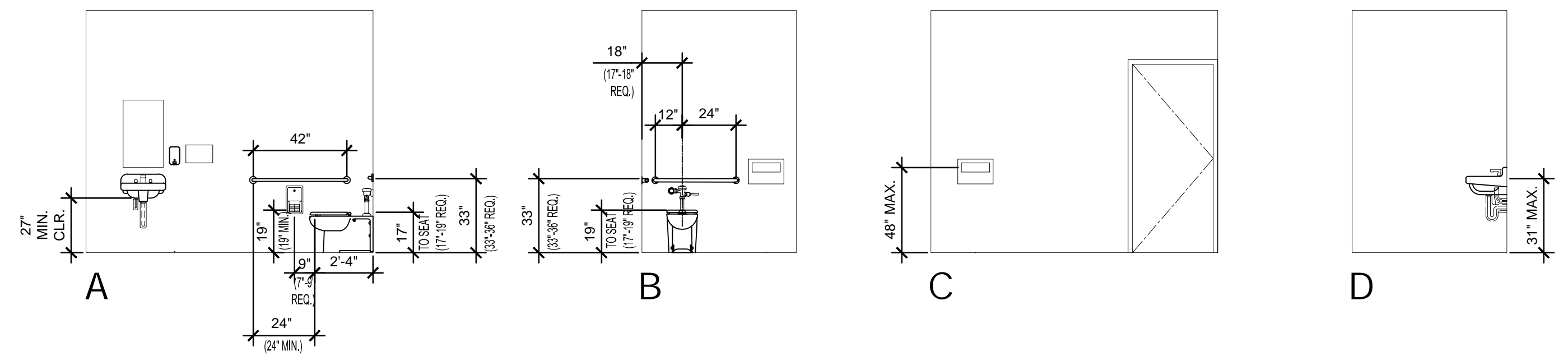
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(E) BOY'S RESTROOMS ENLARGED FLOOR PLAN 1/4" = 1'-0" 7



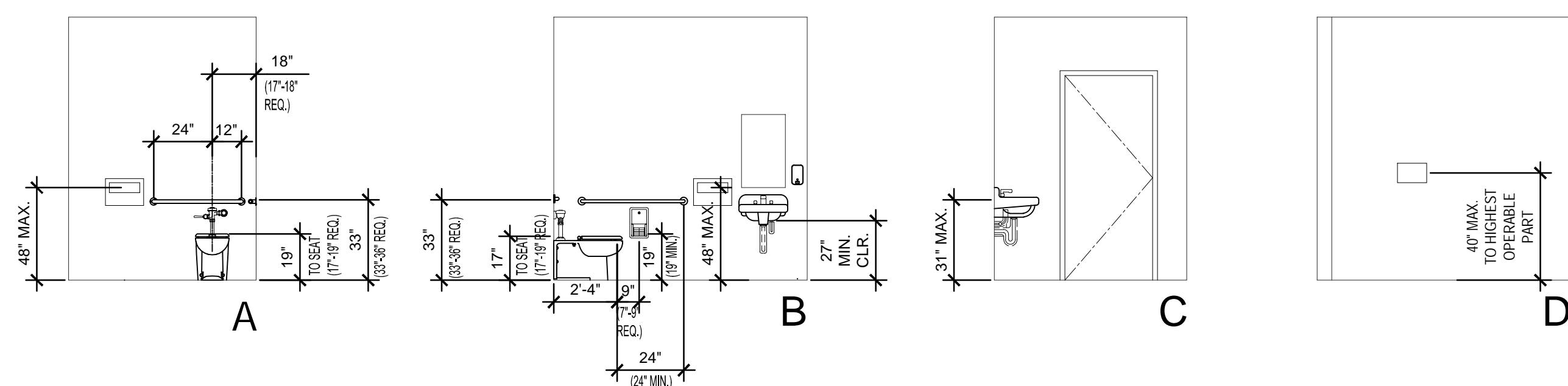
"NO NEW WORK PROPOSED UNDER 03-121342"

(E) GIRL'S/STAFF WOMEN'S/STAFF MEN'S RESTROOMS ENLARGED FLOOR PLAN 1/4" = 1'-0" 3



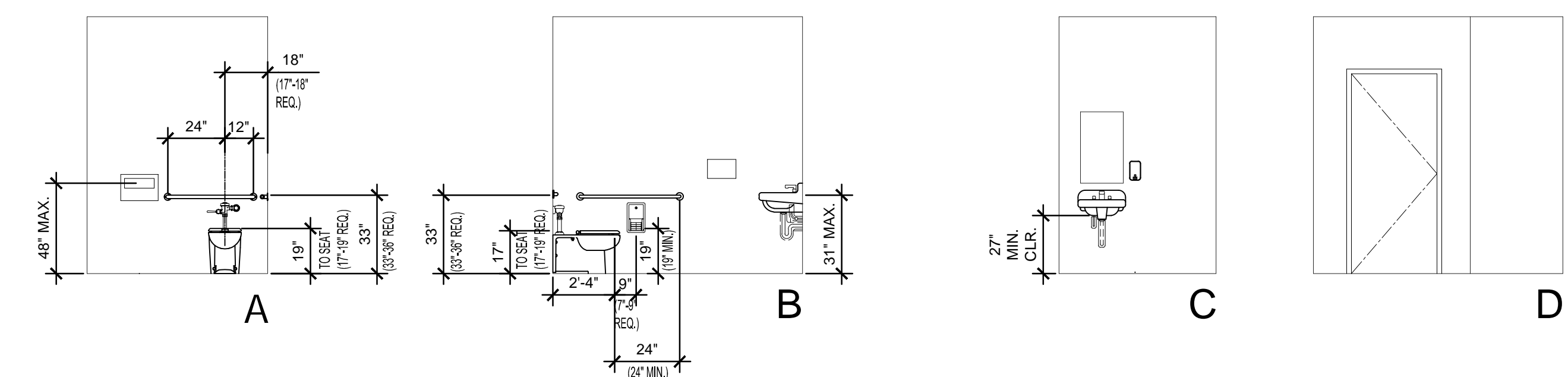
"NO NEW WORK PROPOSED UNDER 03-121342"

(E) UNISEX RESTROOM INTERIOR ELEVATIONS 1/4" = 1'-0" 2



"NO NEW WORK PROPOSED UNDER 03-121342"

(E) WOMEN'S STAFF RESTROOM INTERIOR ELEVATIONS 1/4" = 1'-0" 5

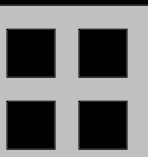


"NO NEW WORK PROPOSED UNDER 03-121342"

(E) MEN'S STAFF RESTROOM INTERIOR ELEVATIONS 1/4" = 1'-0" 1

REVISIONS

DC ARCHITECTS



NEW 2 STORY BUILDING  
GLENDALE ELEMENTARY SCHOOL  
2015 E. GLENOAKS BLVD.  
GLENDAL, CALIFORNIA 91206  
GLENDAL UNIFIED SCHOOL DISTRICT

EXISTING  
ENLARGED RESTROOMS

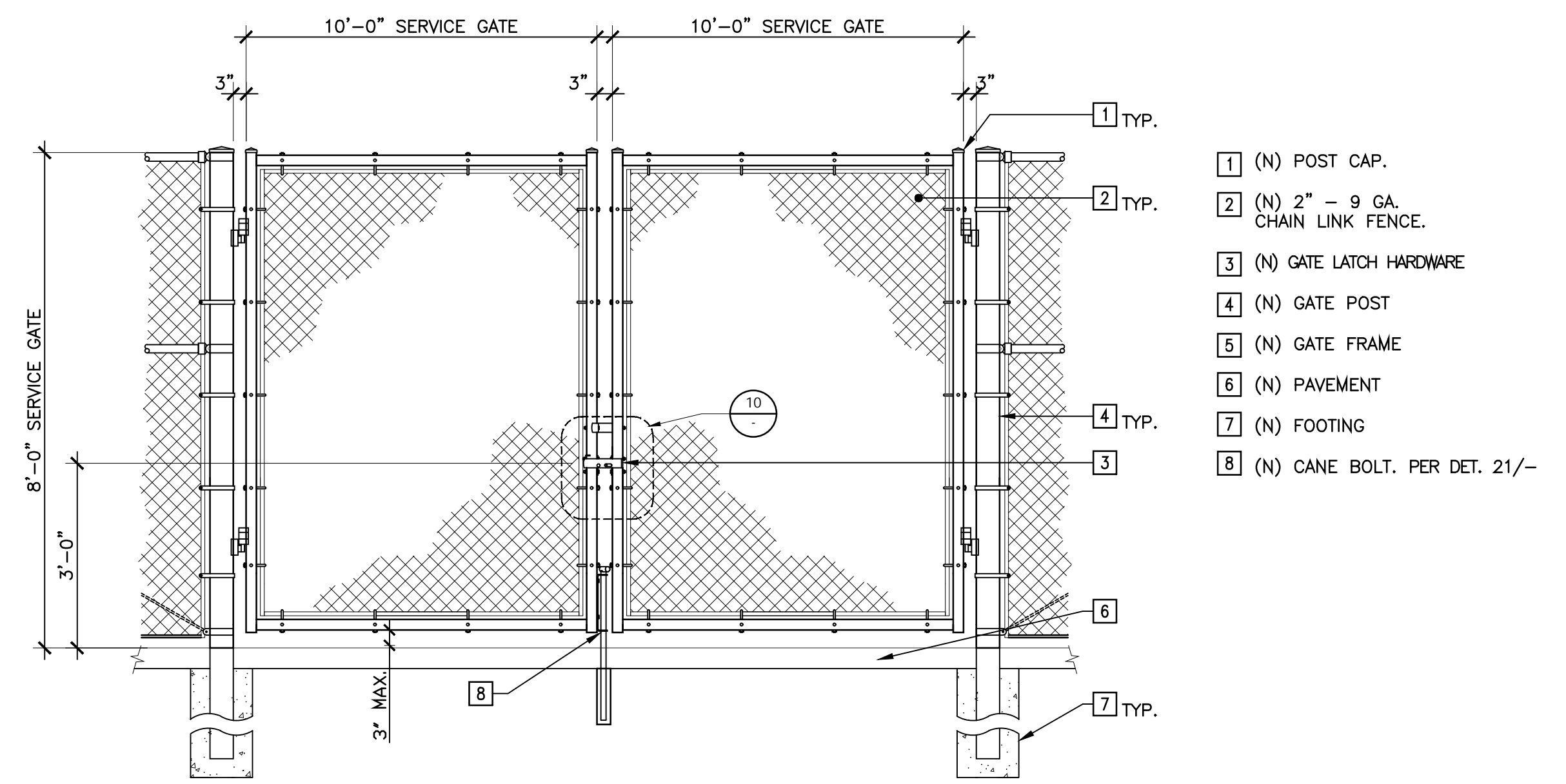
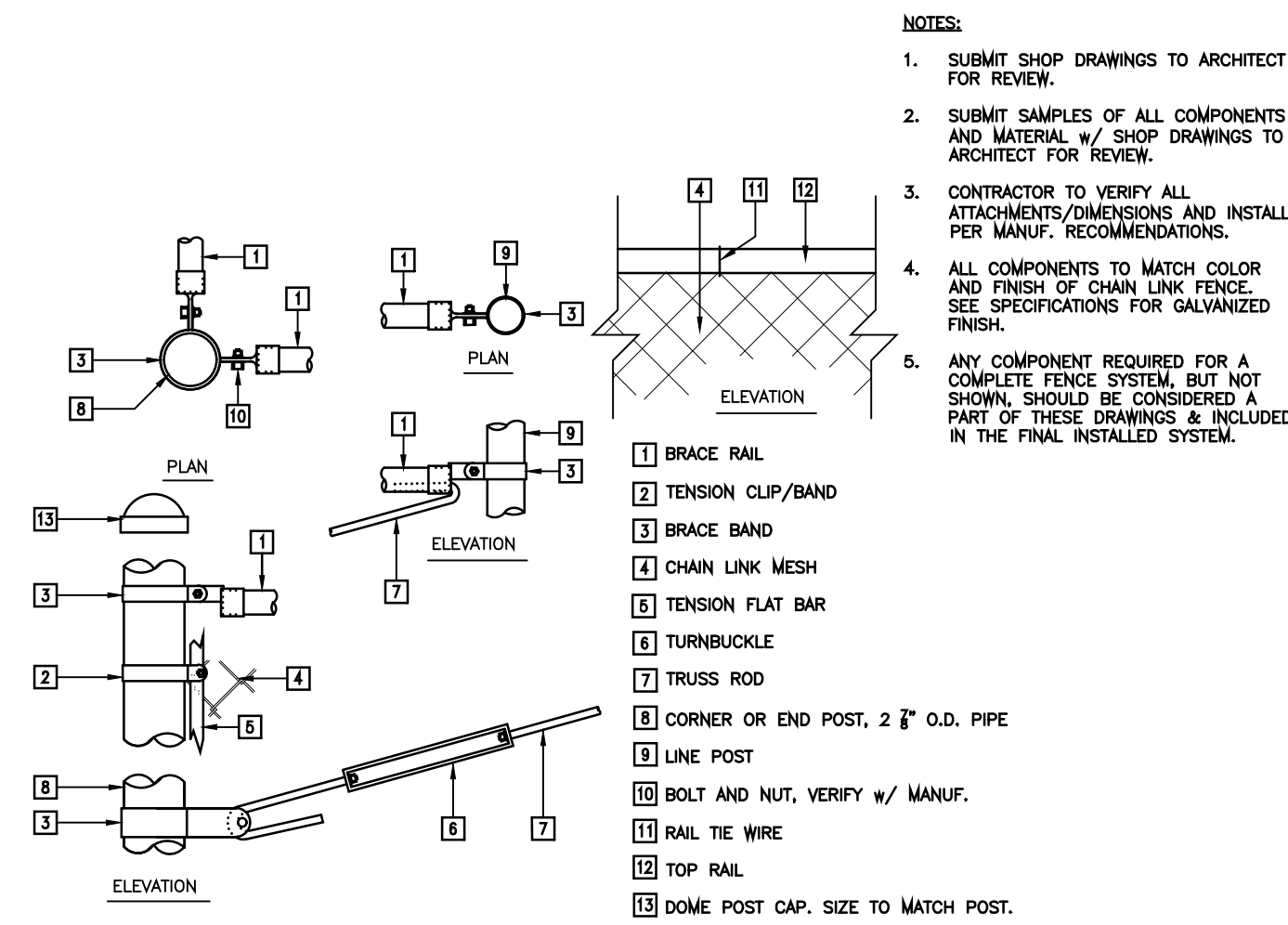
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DRAWN BY: S.M.P.P.P.

A-1.4

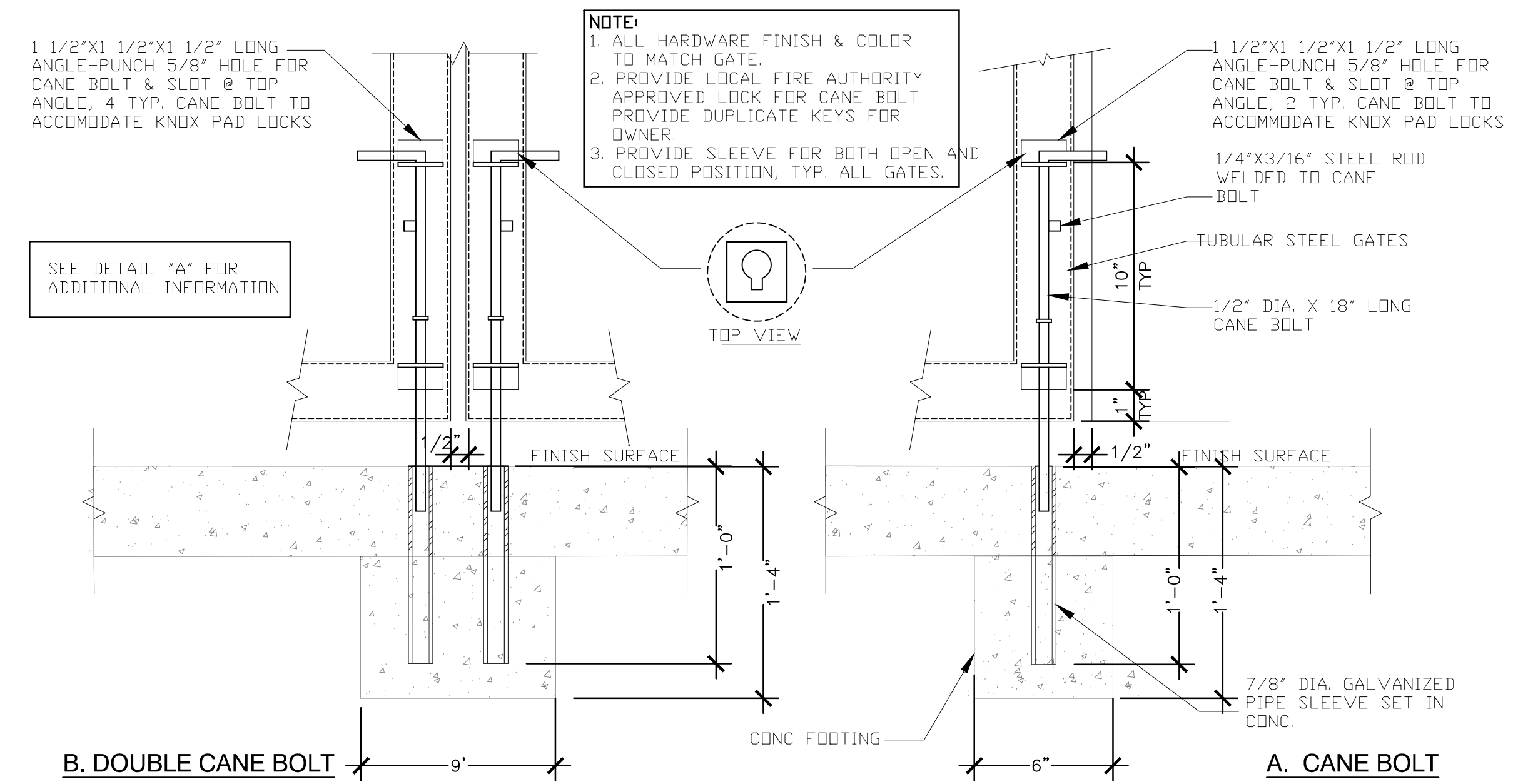
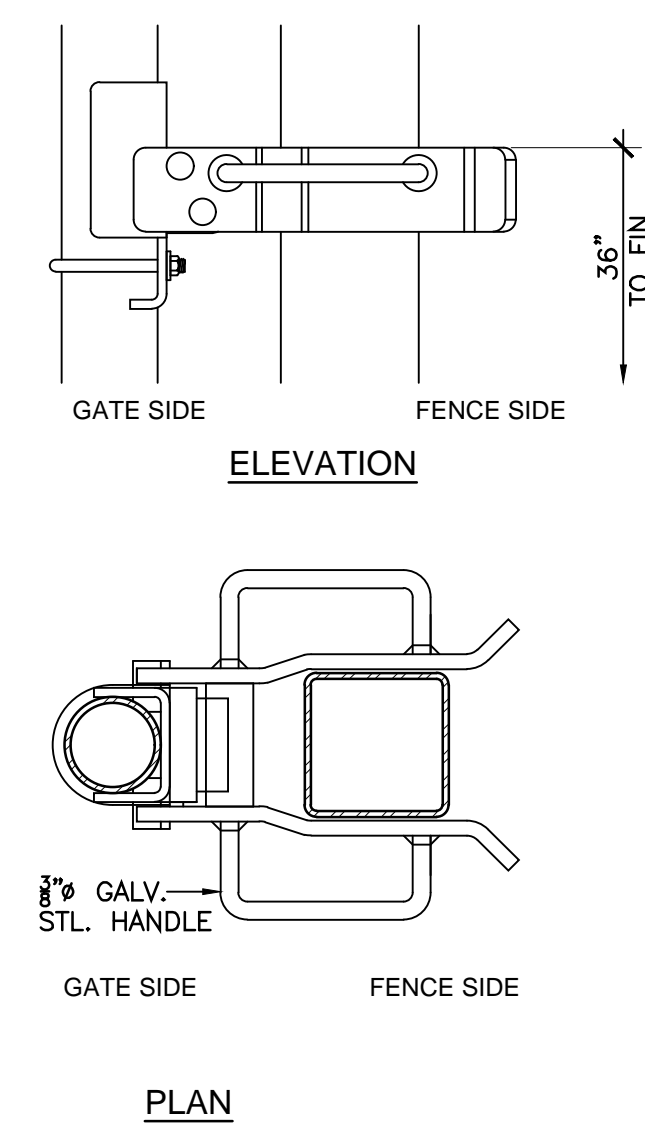
BID SET 10/01/2021



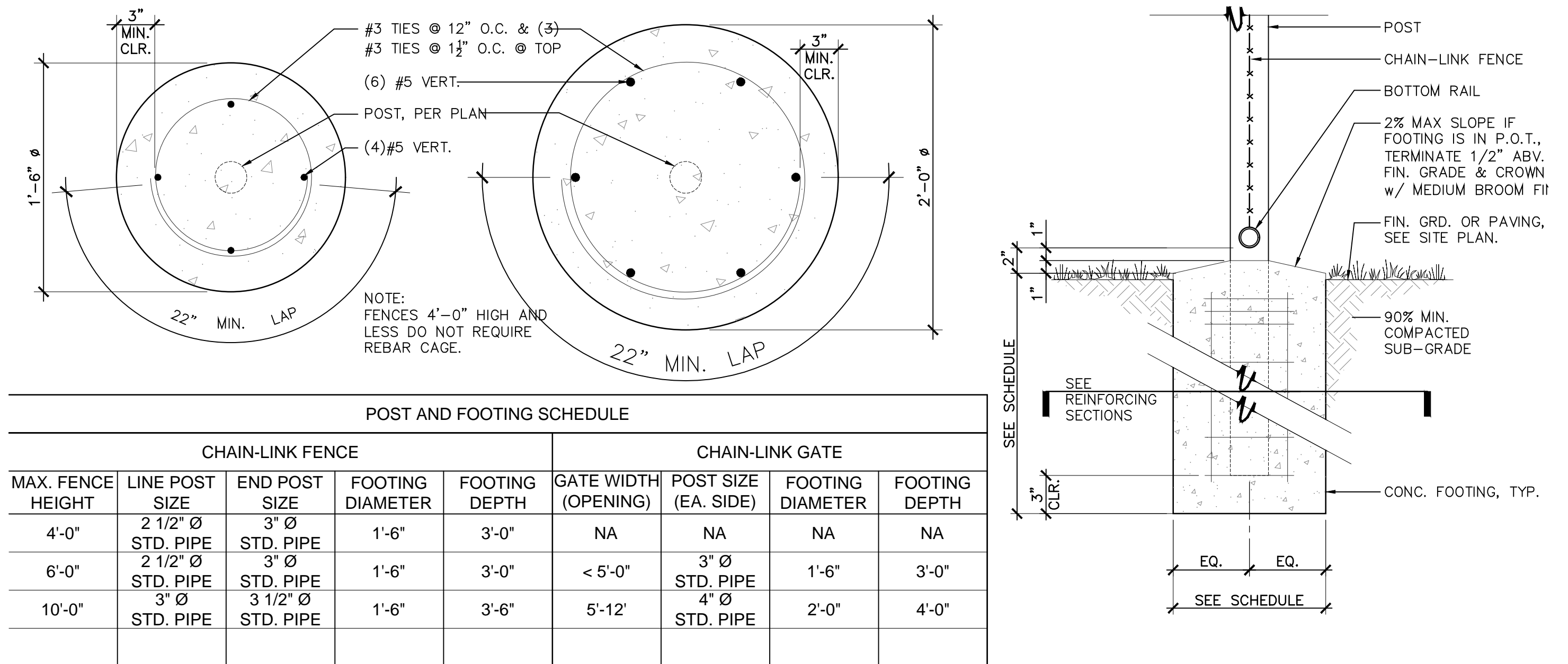




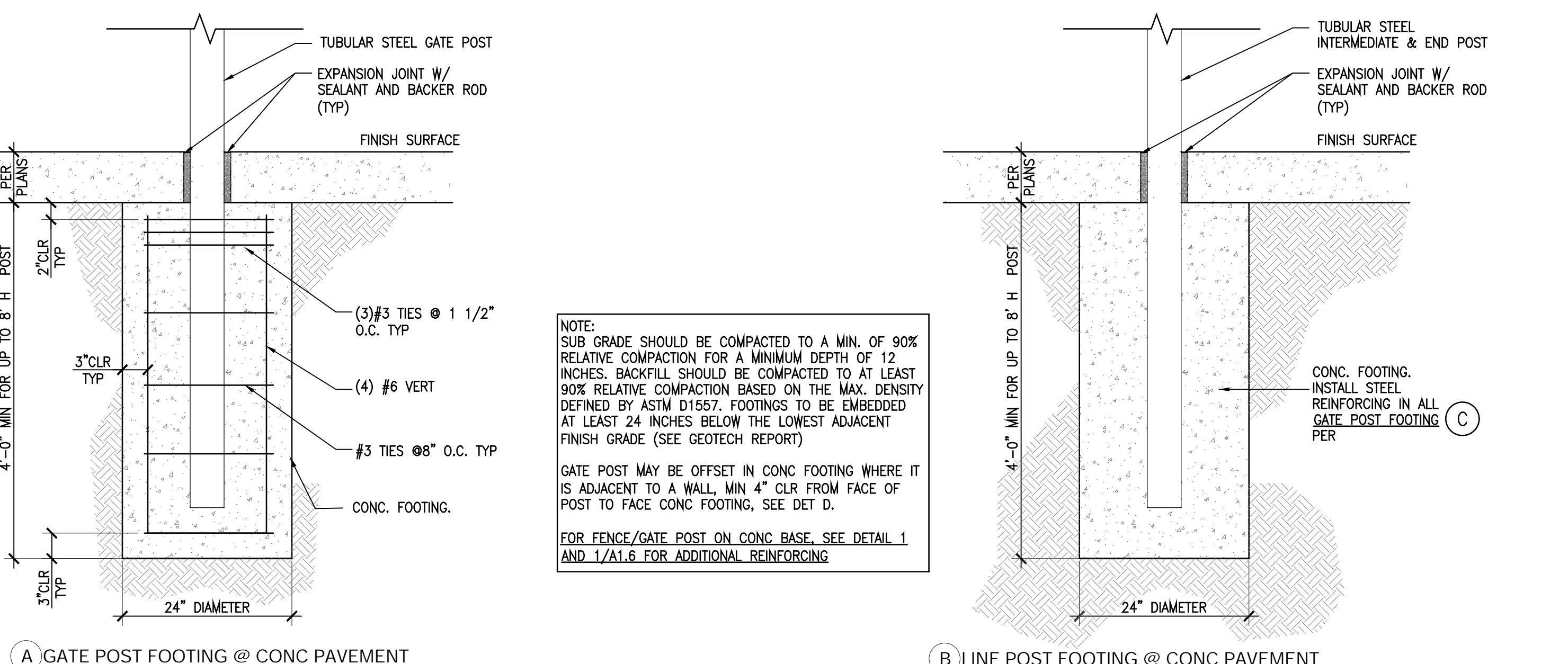
NOT USED | N.T.S. | 13 | CHAIN LINK COMPONENTS & CONNECTIONS | 1" = 1'-0" | 9 | CHAIN LINK SERVICE GATE | 1/2" = 1'-0" | 1



NOT USED | 3" = 1'-0" | 14 | GATE LATCH | 3" = 1'-0" | 10 | LEVER HARDWARE | 3" = 1'-0" | 2



NOT USED | 3/8" = 1'-0" | 15 | NOT USED | 3/8" = 1'-0" | 11 | POST FOOTING | 1 1/2" = 1'-0" | 3



NOT USED | 1 1/2" = 1'-0" | 16 | NOT USED | NO SCALE: | 12 | CHAIN LINK COMPONENTS & CONNECTIONS | 1" = 1'-0" | 4

REVISIONS

DC ARCHITECTS

820 N. MOUNTAIN AVENUE  
SUITE 200  
UPLAND, CA 91786

(909) 985-6899 OFFICE  
(909) 985-6884 FAX

NEW 2 STORY BUILDING  
GLENDALE ELEMENTARY SCHOOL  
2015 E. GLENDALE BLVD.  
GLENDALE, CALIFORNIA 91206  
GLENDALE UNIFIED SCHOOL DISTRICT

SITE DETAILS

DATE: 2019/02/06  
DRAWN BY: ALAN C.  
CHKD: 10/07/2021  
SCALE: 00/00000

A-1.6

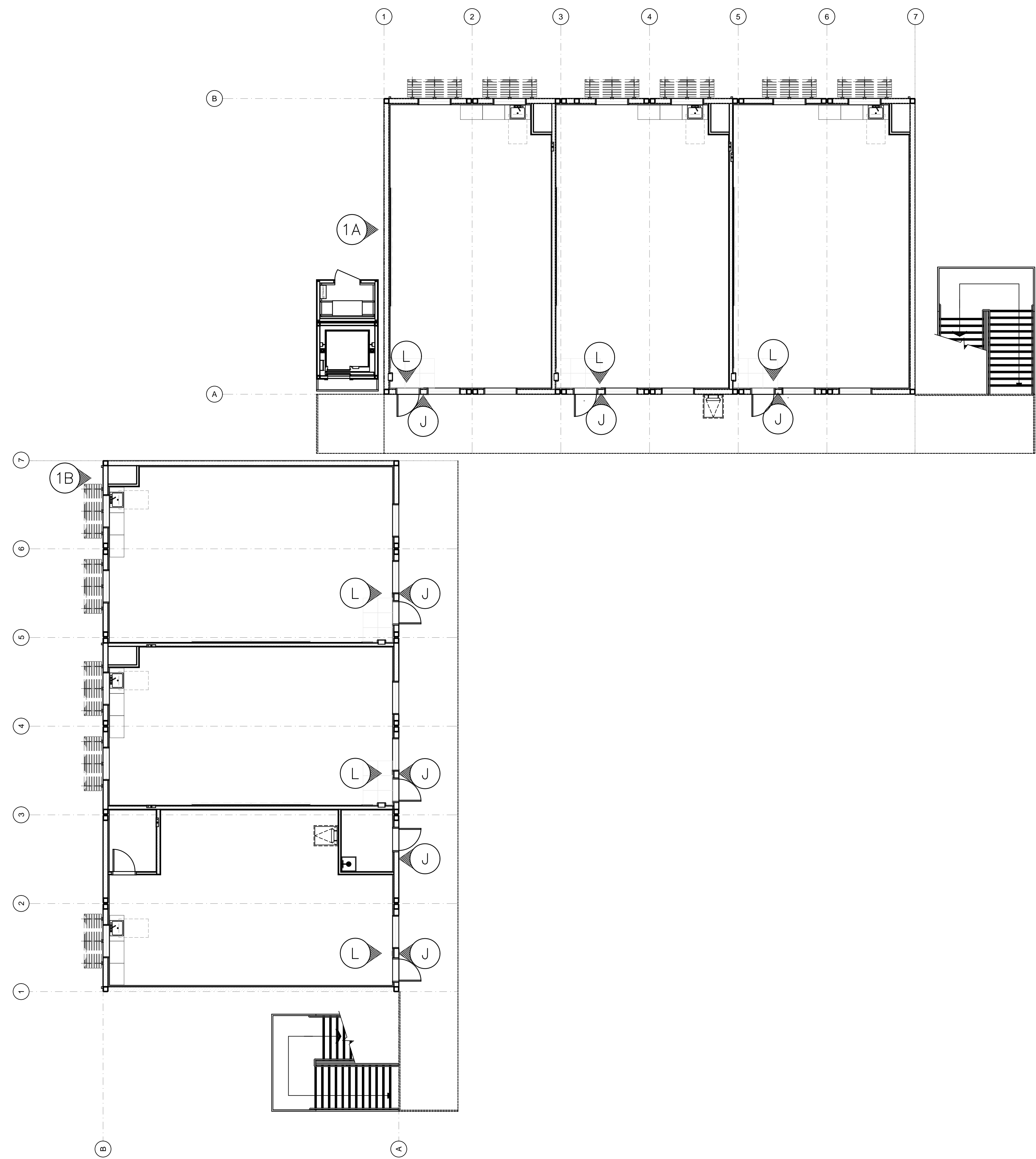
BID SET 10/01/2021

**BUILDING/DOOR SIGNAGE**

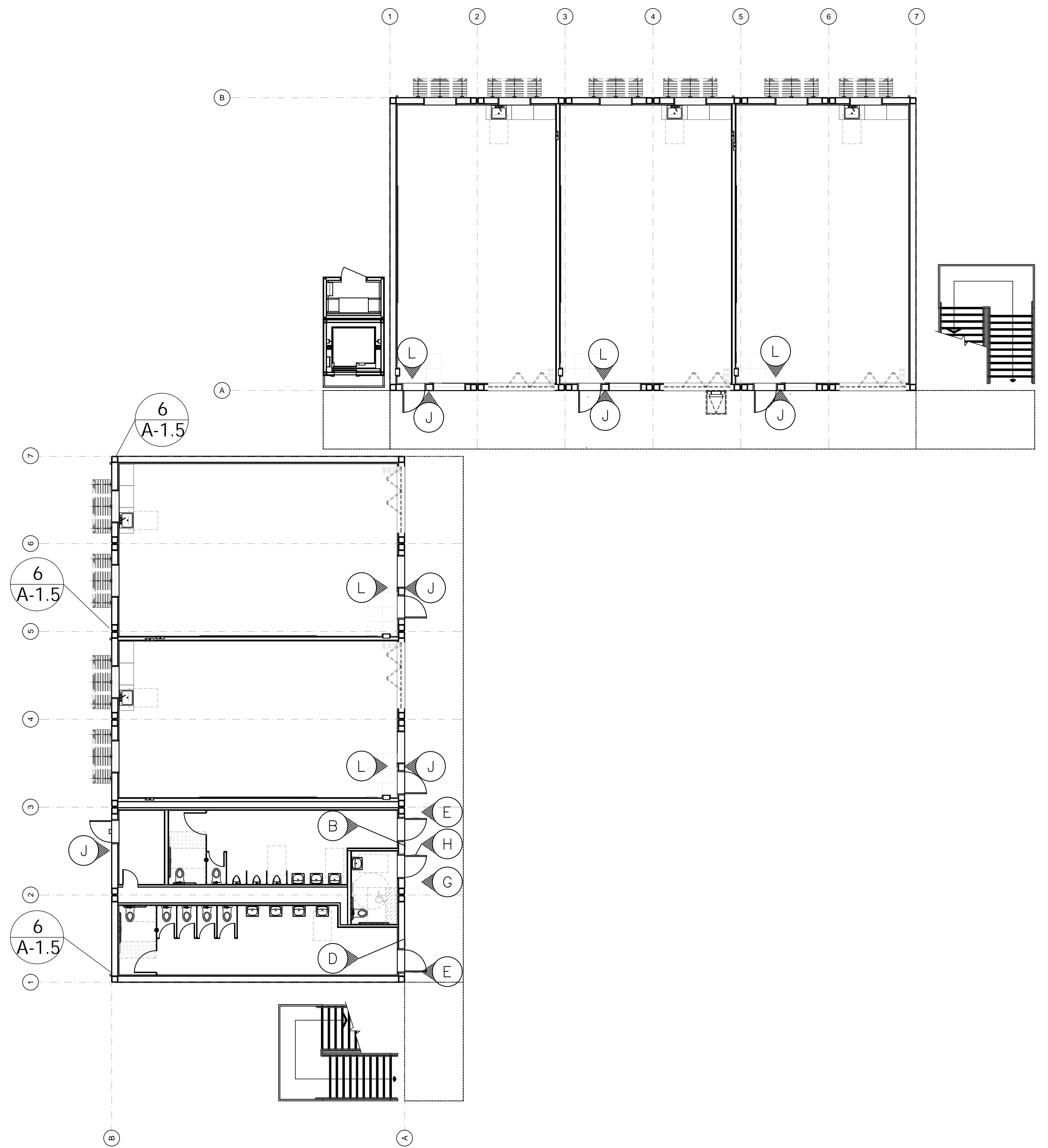
NOTE: SEE SHEET T-1 SIGNAGE & NOTES FOR TYPICAL DOOR SIGNS & DETAILS.

1. BUILDING SIGNAGE: 12" HIGH CAST ALUMINUM INDIVIDUAL LETTERS STATING BUILDING A (1A) AND BUILDING B (1B) PAINTED MINIMUM 2 COATS, WITH SEMI GLOSS FINISH. COLOR AS SELECTED BY DISTRICT PER MANUFACTURE SELECTION

SEE T-1 SHEET FOR DOOR SIGNAGE LISTING/GRAPHICS TYPICAL



SECOND FLOOR SIGNAGE PLAN 1/8" = 1'-0" 2



FIRST FLOOR SIGNAGE PLAN 1/8" = 1'-0" 1

REVISIONS


**DC | ARCHITECTS**

820 N. MOUNTAIN AVENUE  
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NEW 2 STORY BUILDING  
GLENDALE ELEMENTARY SCHOOL  
2015 E. GLENDALE BLVD.  
GLENDALE, CALIFORNIA 91206  
GLENDALE UNIFIED SCHOOL DISTRICT

FIRST AND SECOND  
FLOOR SIGNAGE PLAN  
2 STORY MODULAR CLASSROOM

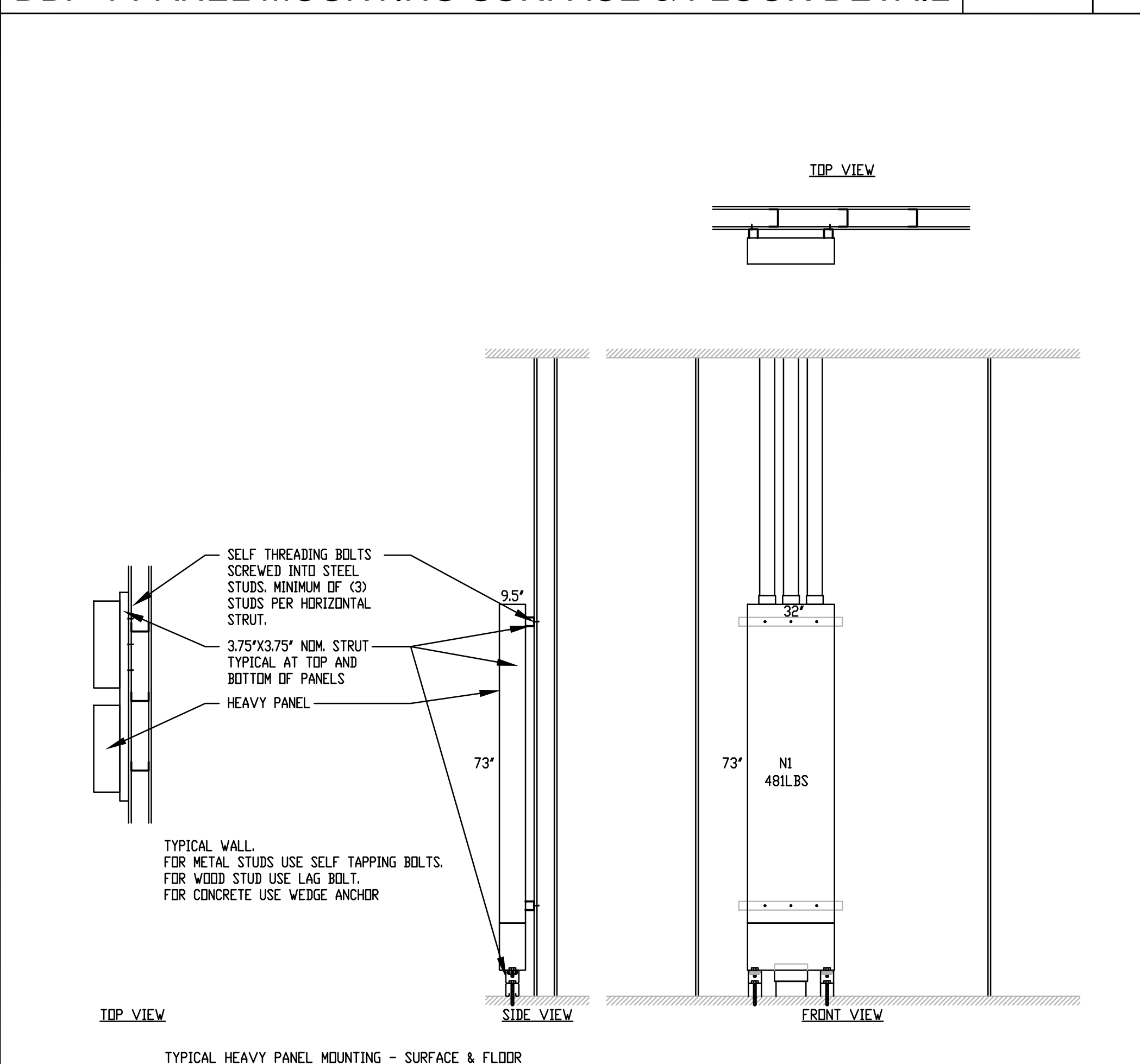
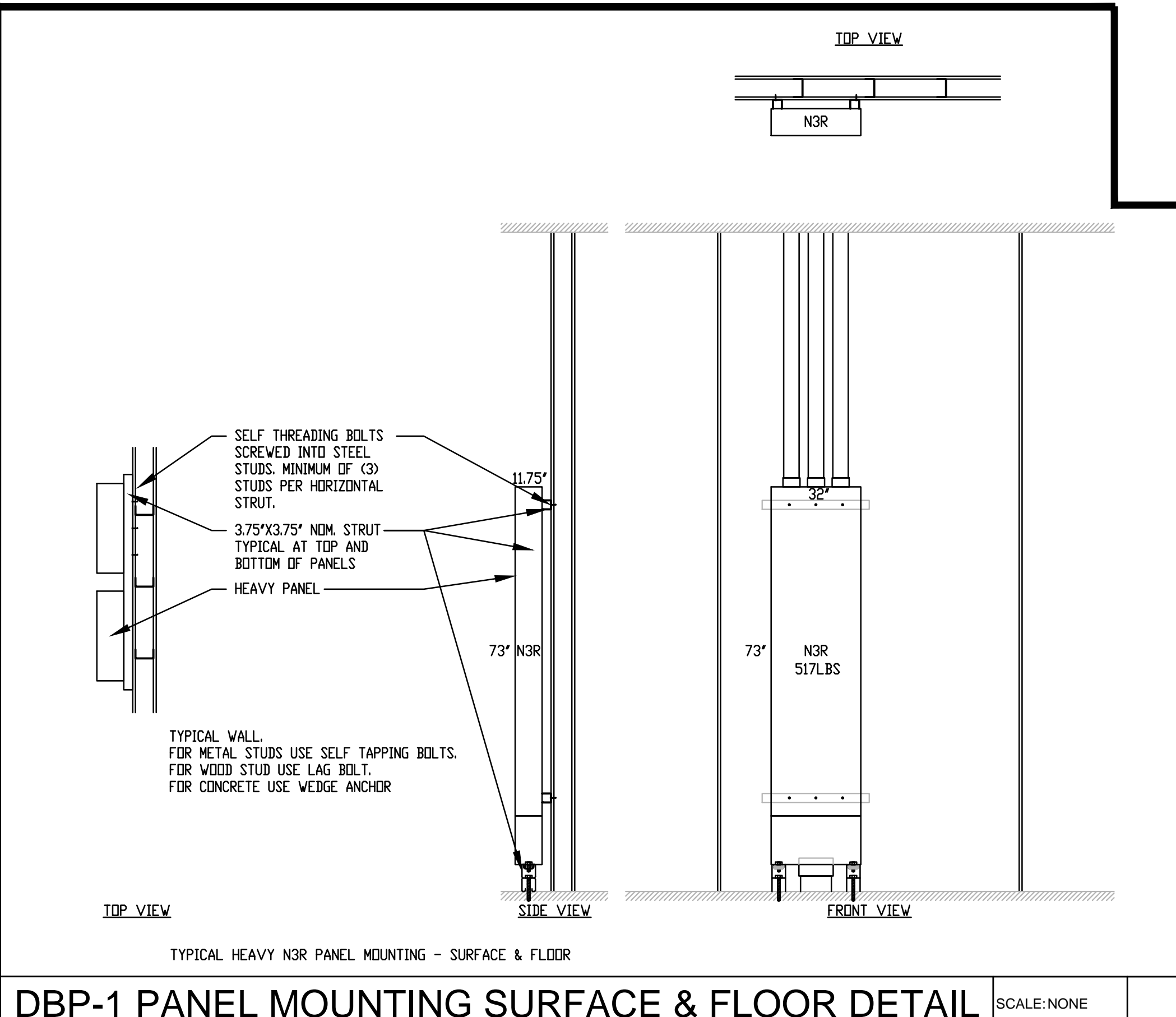
DATE: 2019/02/6
DESIGNED BY: A.C.T.
DATE: 10/07/2021
DRAWN BY: S.M.P.P.
00/00000

A-1.7

BID SET 10/01/2021

SYMBOLS		SYMBOLS	
SWITCHES & CONTROLS		POWER	
	SWITCH, SINGLE POLE +48" *		SERVICE DISCONNECT, FUSED OR NON FUSED PER DRAWING
	SWITCH, DIMMER, SIZE PER LOAD OR SPECIFICATION +48" *		SERVICE DISCONNECT, MAGNETIC STARTER
	SWITCH, DIMMER 0-10V +48" *		SERVICE DISCONNECT, VFD
	SWITCH, 3 WAY, SINGLE POLE +48" *		OUTLET, SINGLE, 120V +18" * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	SWITCH, 4 WAY +48" *		OUTLET, DUPLEX, 120V +18" * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	SWITCH, KEY +48" *		OUTLET, HALF HOT, HALF SWITCHED, 120V +18" * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	SWITCH, PILOT LIGHT, SINGLE POLE +48" *		OUTLET, DOUBLE DUPLEX, 120V +18" * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	SWITCH, TIMER, 2 HR. NO HOLD MANUEL TYPE UNLESS NOTED OTHERWISE +48" *		OUTLET, DOUBLE DUPLEX, HALF HOT, HALF SWITCHED, 120V +18" * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	SWITCH, VACANCY DETECTOR +48" *		OUTLET, SINGLE, 240V SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	OCCUPANCY SENSOR SINGLE CIRCUIT WALL SWITCH +48" *		OUTLET, SINGLE, 120/240V SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	OCCUPANCY SENSOR DUAL CIRCUIT WALL SWITCH +48" *		OUTLET, SINGLE, 3 PHASE SIZE AND TYPE PER CIRCUIT REQUIREMENTS OR SPECIFICATION
	OCCUPANCY SENSOR SINGLE CIRCUIT DIMMER 120V WALL SWITCH - LIKE LUTRON +48" *		OUTLET, DUPLEX, 120V, GFCI +18" * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	OCCUPANCY SENSOR SINGLE CIRCUIT DIMMER 0-10V WALL SWITCH - LIKE LUTRON +48" *		OUTLET, DOUBLE DUPLEX, 120V, GFCI +18" * SIZE AND TYPE PER CIRCUIT REQUIREMENTS OR SPECIFICATION
	CEILING MOUNTED MOTION SENSOR, ULTRA SOUND		OUTLET, DUPLEX, 120V, FLOOR MOUNT SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	CEILING MOUNTED MOTION SENSOR, INFRARED		OUTLET, DOUBLE DUPLEX, 120V, FLOOR MOUNT SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	CEILING MOUNTED MOTION SENSOR, COMBINATION ULTRA SOUND / INFRARED		OUTLET, PEDDC, DUPLEX, 120V, GFCI * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	CEILING MOUNTED RELAY / POWER PACK FOR LOW VOLTAGE MOTION SENSORS, SIZE PER CIRCUIT AND SENSOR REQUIREMENTS		OUTLET, PEDDC, DOUBLE DUPLEX, 120V, GFCI * SIZE AND TYPE PER CIRCUIT REQUIREMENTS OR SPECIFICATION
	CEILING MOUNTED RELAY SLAVE PACK FOR LOW VOLTAGE MOTION SENSOR, SIZE PER CIRCUIT AND SENSOR REQUIREMENTS		OUTLET, PEDDC, SINGLE, 120/240V, GFCI * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	THERMOSTAT, +48" *		OUTLET, SINGLE/2-PORT USB COMBO, 120V * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	TIME CLOCK, POLES AND VOLTAGE AS NEEDED OR SPECIFIED		OUTLET, 4-PORT USB * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	EXTERIOR-PHOTO CELL, SIZE AND VOLTAGE PER CIRCUIT OR AS SPECIFIED INTERIOR-0-10V PHOTO SENSOR RE. DAYLIGHT CONTROLLER		OUTLET, DUPLEX EM CIRCUIT, 120V +18" * SIZE PER CIRCUIT AND LOCATION REQUIREMENTS
	EM LIGHTING INVERTER RELAY SWITCH		JUNCTION BOX
NOTES & MISC.		COMMUNICATIONS/CONTROLS	
	INDICATES PLAN KEYED NOTE		THERMOSTAT, +48" *
	INDICATES PLAN KEYED NOTE		HUMIDITY SENSOR
	INDICATES PLAN KEYED NOTE		SPEAKER AND BOX PROVIDED BY OTHERS, BOX PIPED AND INSTALLED BY E. C.
	INDICATES REVISION		TELEPHONE OUTLET, +18" *
	INDICATES FIXTURE TYPE		COMPUTER OUTLET, +18" *
	INDICATES MECHANICAL FIXTURE TYPE		CABLE OUTLET, +18" *
	INDICATES DETAIL		TELEPHONE OUTLET, FLOOR
	INDICATES DETAIL		COMPUTER OUTLET, FLOOR
	PANEL, MOUNTING ACCORDING TO PLACEMENT ON PLANS		CABLE OUTLET, FLOOR
	PANEL, CONTROL-LRG, MOUNTING ACCORDING TO PLACEMENT ON PLANS		COMBINATION TELEPHONE & COMPUTER OUTLET, +18" *
	PANEL, CONTROL-SML, MOUNTING ACCORDING TO PLACEMENT ON PLANS		TELEVISION OUTLET, +18" *
	VALVE, ALARM CONTACT OR SOLENOID OPERATOR DEPENDING ON APPLICATION		DOOR BELL PUSH BUTTON
	EYES FITTING SIZE PER CONDUIT, LOCATE PER N.E.C.		FIRE ALARM BELL
	SMOKE DETECTOR, CEILING OR WALL MOUNTED PER PLANS		DOOR BELL TRANSFORMER
	COMBINATION SMOKE DETECTOR AND CO SENSOR		NURSES CALL LIGHT
	EXHAUST FAN		NURSES CALL SWITCH WITH PULL CORD
	CEILING FAN		ELECTRIC DOOR STRIKE RELEASE
	MOTOR		WIRELESS ACCESS POINT
	POWER SUPPLY		INTERCOM
	POWER CENTER		KEY PAD
	CURRENT LIMITER		
* STANDARD HEIGHT TO MEET STATE HANDICAP REQUIREMENTS AND PROVISIONS OF THE ADA IS 36" - 48" AFF. FOR SWITCHES AND THERMOSTATS, 15" - 48" FOR OUTLETS. HEIGHT SHOWN IN SYMBOL LIST IS PREFERRED HEIGHT TO BE CHANGED ONLY IF PHYSICAL REQUIREMENTS OF THE STRUCTURE OR CASEWORK REQUIRE. CHANGES MUST MEET STANDARDS IF OUTLET OR SWITCH IS FOR GENERAL USAGE. OUTLET TO BE MOUNTED AT HEIGHT SHOWN ON PLAN WHEN SPECIAL PURPOSE.			

GENERAL	
1. ALL WORK IS TO BE PERFORMED PER THE 2019 ISSUE OF THE CALIFORNIA ELECTRICAL CODE AND THE 2019 CALIFORNIA ENERGY CODE AS ACCEPTED BY THE CALIFORNIA STATE FIRE MARSHAL, DSA, AND ALL OTHER APPLICABLE NATIONAL, STATE AND LOCAL CODES AND LAWS PERTAINING TO ELECTRICAL WORK.	
2. ALL WORK IN HAZARDOUS LOCATIONS SHALL COMPLY WITH CEC ART. 500 THROUGH 516 AS APPLICABLE.	
3. NOTHING IN THESE NOTES SHALL BE CONSTRUED AS CIRCUMVENTING ANY MORE STRINGENT SPECIFICATION OR REQUIREMENT OF THE CONTRACT DOCUMENTS.	
4. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BIDDING WORK AND INCLUDE IN HIS BID THE NECESSARY COSTS REQUIRED TO COMPLETE THIS PROJECT ACCORDING TO THE INTENT OF THE DRAWINGS.	
5. ANY DISCREPANCIES BETWEEN SITE CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT COORDINATOR OR ARCHITECT PRIOR TO BID IF POSSIBLE.	
6. ELECTRICAL WORK UNDER THIS CONTRACT SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE INSTALLATION COVERED UNDER THE CONTRACT INCLUDING CONTROL CONDUIT AND WIRING AS DOCUMENTED OR INFERRED IN THE MECHANICAL DRAWINGS.	
7. ALL MATERIAL AND EQUIPMENT FURNISHED AND OR INSTALLED UNDER THIS CONTRACT SHALL BE NEW, FREE FROM DEFECTS, AND SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER OR HIS REPRESENTATIVE. SHOULD ANY PROBLEMS DEVELOP DURING THIS WARRANTY PERIOD DUE TO FAULTY WORKMANSHIP, MATERIAL DEFECTS OR EQUIPMENT DEFECTS OR FAILURE, THE ELECTRICAL CONTRACTOR SHALL CORRECT THE PROBLEM AND REPAIR OR REPLACE EQUIPMENT OR MATERIAL WITHOUT COST TO THE OWNERS. ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL BE NEAT IN APPEARANCE AS WELL AS FUNCTIONAL WHEN COMPLETED.	
8. UNLESS NOTED OTHERWISE OR COORDINATED WITH THE GENERAL CONTRACTOR, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION, CUTTING, AND PATCHING RELATING TO ELECTRICAL WORK.	
9. STATE HANDICAP REQUIREMENTS ARE TO BE MET PER STANDARDS LISTED IN 'SYMBOL LIST'.	
10. CUT SHEETS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT PROVIDED WITHIN CONTRACT SCOPE OF WORK.	
MATERIAL AND INSTALLATION	
1. ALL ELECTRICAL MATERIALS AND EQUIPMENT ARE TO BE UNDERWRITER'S LABORATORY LISTED OR LISTED BY AN EQUIVALENT NATIONALLY RECOGNIZED TESTING LABORATORY ACCEPTED BY THE CALIFORNIA STATE FIRE MARSHAL AND DSA. ALL MATERIALS SHALL BE APPROVED FOR THE INTENDED PURPOSE AND USED FOR SUCH PURPOSE.	
2. ALL 600-VOLT INSULATED WIRE IN CONDUITS SHALL BE COPPER TYPE THHN/THWN-2 UNLESS NOTED OTHERWISE.	
3. ALL CONDUCTORS SIZE AWG #12 AND SMALLER SHALL BE SOLID, ALL CONDUCTORS SIZE #10 AND LARGER SHALL BE STRANDED.	
4. ALL JUNCTION BOXES SHALL BE MARKED (IN INK) WITH THE PANEL NUMBER, CIRCUIT NUMBERS, AND SYSTEM VOLTAGE CONTAIN WITHIN, ('MAGIC MARKERS' ARE ACCEPTABLE). I.E. 'LA'-1,3,5 277/480V OR 'RA'-2,4,6 120/208V ETC.	
5. WHEN CONDUIT MUST CROSS TRAFFIC AREAS, THE CONDUIT SHALL CROSS PERPENDICULAR TO THE NORMAL TRAFFIC PATTERN.	
6. ALL BALLASTS ARE TO BE CEC LISTED.	
7. ALL OUTDOOR LIGHTING FIXTURES ARE TO BE LISTED FOR WET OR DAMP LOCATION DEPENDING ON TYPE OF EXPOSURE.	
8. ALL DEVICES SHALL BE GROUNDED BY MEANS OF A SEPARATE GROUNDING CONDUCTOR AND EITHER A WIRE BOND FROM THE DEVICE STRAP TO THE BOX OR A SELF-GROUNDING SCREW.	
9. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES. (CEC 210.4(B))	
10. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGINATION. (CEC 210.4(D))	
11. ALL NEW OVERCURRENT DEVICES INSTALLED IN EXISTING PANELS/SWITCHBOARDS SHALL MATCH OR EXCEED THE MAKE, MODEL AND INTERRUPTING CAPACITY OF THE EXISTING OVERCURRENT DEVICES.	
12. A BONDED COMMON GROUNDED ELECTRODE SHALL BE PROVIDED FOR EACH METAL BUILDING, EXPOSED METAL FRAME, RAMP, STAIR AND THE ELECTRICAL SYSTEM PER DSA IR E-1: GROUNDING OF BUILDINGS FABRICATED OFF-SITE: 2016, 2013, 2010 AND 2007 CEC.	
COMPLETION	
1. UPON COMPLETION OF WORK, ELECTRICAL CONTRACTOR SHALL INSURE THE INSTALLATION TO BE FREE FROM SHORT CIRCUITS, PHASE GROUNDS AND NEUTRAL GROUNDS.	
2. ALL FEEDERS SHALL HAVE INSULATION TESTED PRIOR TO ENERGIZATION.	
3. ALL PANELS, TRANSFORMERS, DISTRIBUTION BOARDS, SWITCHES, ETC. SHALL BE LABELED PER SINGLE LINE DIAGRAM USING PLASTIC PLATES WITH 3/8" HIGH WHITE LETTERS ON BLACK BACKGROUNDS. LABEL SHALL INCLUDE ITEM NAME AND VOLTAGE PRESENT. TRANSFORMER LABEL SHALL INCLUDE BOTH PRIMARY AND SECONDARY VOLTAGES. LABEL SHALL BE PERMANENTLY ATTACHED USING AT LEAST (2) ROUND HEAD STAINLESS STEEL MACHINE SCREWS WITH MINIMUM THREAD SIZE 8-32.	
4. ELECTRICAL CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO ARCHITECT UPON COMPLETION OF WORK.	
5. ELECTRICAL CONTRACTOR SHALL BE AVAILABLE FOR NIGHT INSPECTION AND APPROVAL OF COMPLETED WORK.	
6. PRIOR TO FINAL ENERGIZATION, NEUTRAL FEED SHALL BE DISCONNECTED FROM THE PANEL AND BUS WITH ALL LOAD NEUTRALS CONNECTED SHALL BE TESTED IN THE PRESENCE OF THE ELECTRICAL ENGINEER FOR FAULTS TO GROUND.	
7. ALL CIRCUIT BREAKER, NEUTRAL AND GROUND LUG CONNECTIONS SHALL BE TORQUED PER MANUFACTURER'S SPECIFICATIONS IN THE PRESENCE OF THE ELECTRICAL INSPECTOR.	
8. THE ISSUANCE OF A PERMIT SHALL NOT PREVENT FROM REQUIRING THE CORRECTION OF ERRORS ON THESE PLANS OR FROM PREVENTING ANY VIOLATION OF THE CODES ADOPTED BY THE CITY, RELEVANT LAWS, ORDINANCES, RULES AND/OR REGULATIONS.	
<b>NOTES</b> SCALE: NONE	
HOME RUN IN CABLE OR CONDUIT (PER SPECS AND CODES), CIRCUIT AND CONDUIT SIZE AS NOTED, CONDUIT PER NEC OR AS NOTED	
----- EXISTING WIRING TO REMAIN	
----- EXISTING WIRING TO BE REMOVED	
----- NEW ABOVE FLOOR WIRING	
----- NEW UNDER FLOOR WIRING	
----- STUB UP TO OR DOWN FROM NEXT FLOOR LEVEL	
----- STUB DOWN TO OR UP FROM THE NEXT FLOOR LEVEL	
<b>SYMBOLS</b> SCALE: NONE	
<b>ADDITIONAL NOTES</b> SCALE: NONE	



SHEET NO	SHEET TITLE
E-0.0	ELECTRICAL SYMBOLS & NOTES
E-0.1	SINGLE LINE DIAGRAM AND LOAD CALCULATIONS
ED-0.1	DEMO SINGLE LINE DIAGRAM
E-0.2	PANEL SCHEDULES
E-0.3	INSTALLATION DETAILS
E-1.0	OVERALL ELECTRICAL SITE PLAN
E-2.1	ELECTRICAL ENLARGED - FIRST FLOOR PLAN
E-2.2	ELECTRICAL ENLARGED - SECOND FLOOR PLAN
E-4.0	OVERALL COMMUNICATION SITE PLAN
E-4.1	COMMUNICATION ENLARGED - FIRST FLOOR PLAN
E-4.2	COMMUNICATION ENLARGED - SECOND FLOOR PLAN
FA-0.0	FIRE ALARM SYMBOLS & NOTES
FA-0.1	FIRE ALARM RISER DIAGRAM & CALCULATIONS
FA-1.0	OVERALL FIRE ALARM SITE PLAN
FA-2.1	FIRE ALARM - FIRST FLOOR PLAN
FA-2.2	FIRE ALARM - SECOND FLOOR PLAN

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**DC ARCHITECTS**

NEW 2 STORY BUILDING  
GLENDALE ELEMENTARY SCHOOL  
2015 E. GLEN OAKS BLVD  
GLENDALE, CALIFORNIA 91206  
GLENDALE UNIFIED SCHOOL DISTRICT

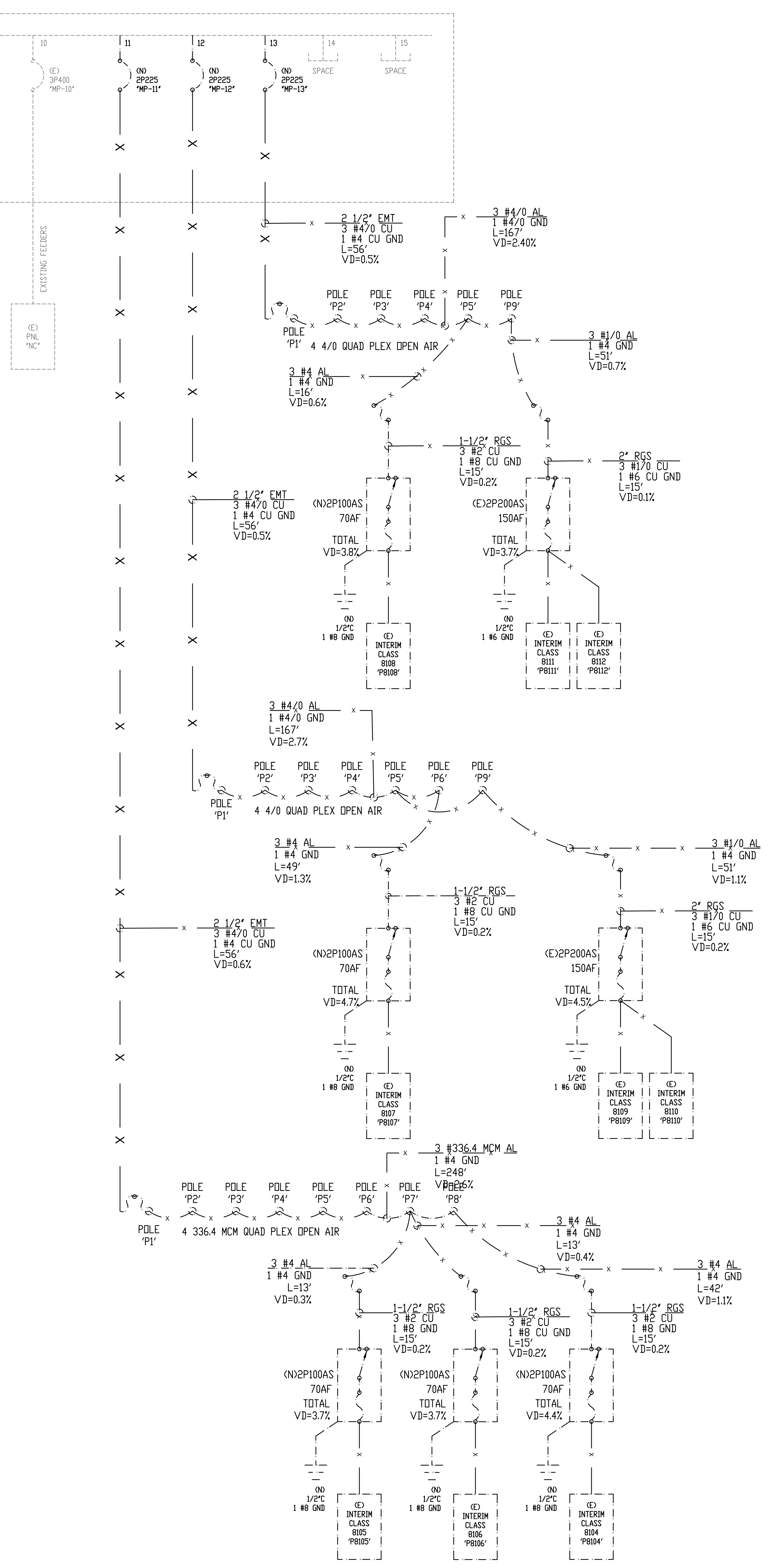
**SYMBOLS & NOTES**

**E-0.0**

**BID SET 10/01/2021**



CONTINUATION OF  
SINGLE LINE  
DIAGRAM ON  
SHEET E-0.1



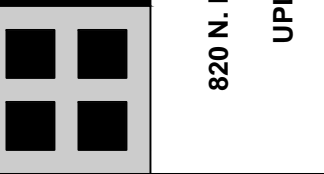
DEMO SINGLE LINE DIAGRAM

SCALE: NONE



REVISIONS

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NEW 2 STORY BUILDING  
GLENOAKS ELEMENTARY SCHOOL  
2015 E. GLEN OAKS BLVD  
GLENDALE, CALIFORNIA 91206  
GLENDALE UNIFIED SCHOOL DISTRICT

DEMO  
SINGLE LINE DIAGRAM

DATE: 10/05/2021  
BY: JJK  
CHECKED: JJK  
SCALE: 1/8"=1'-0"

ED-0.1

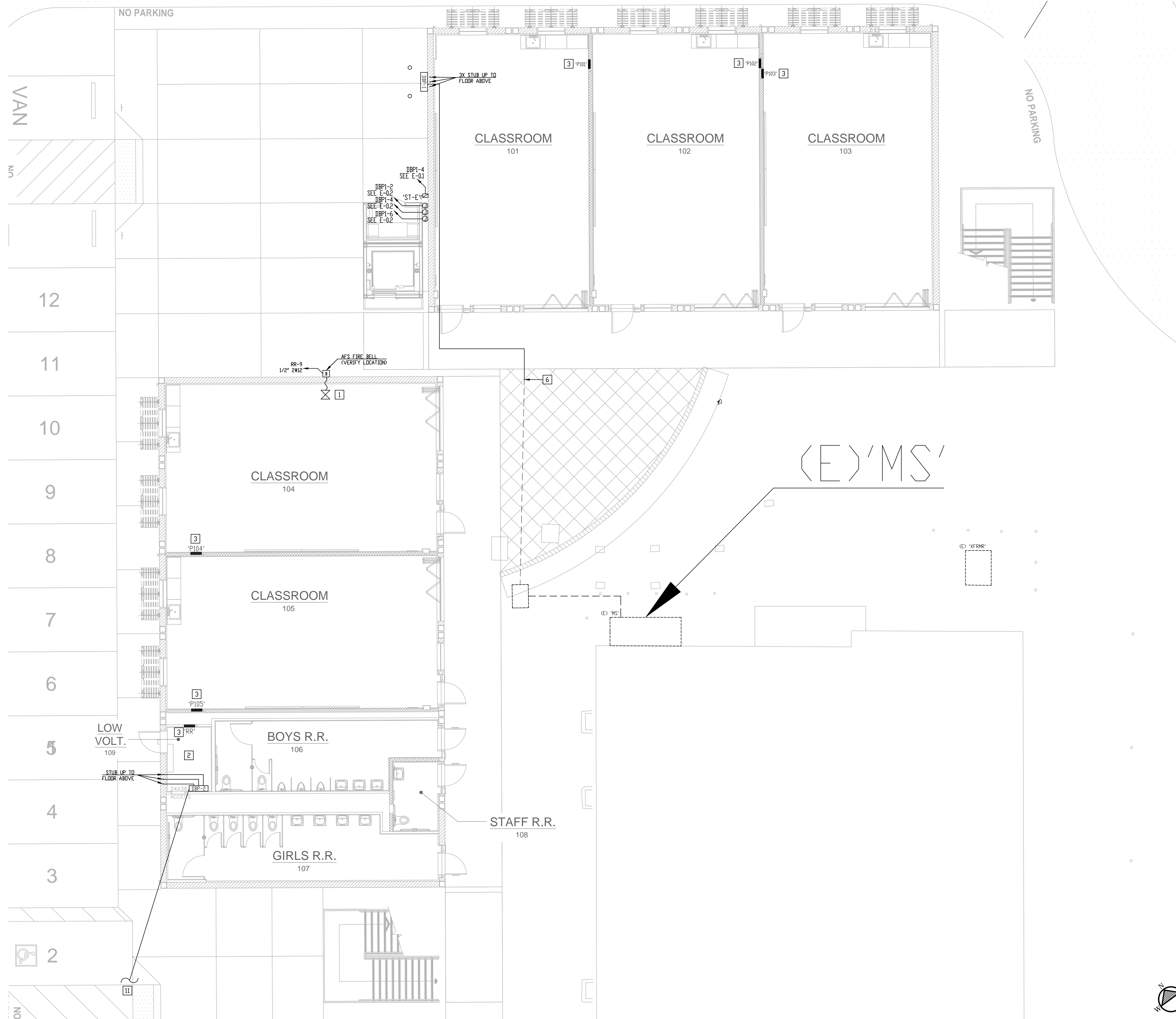
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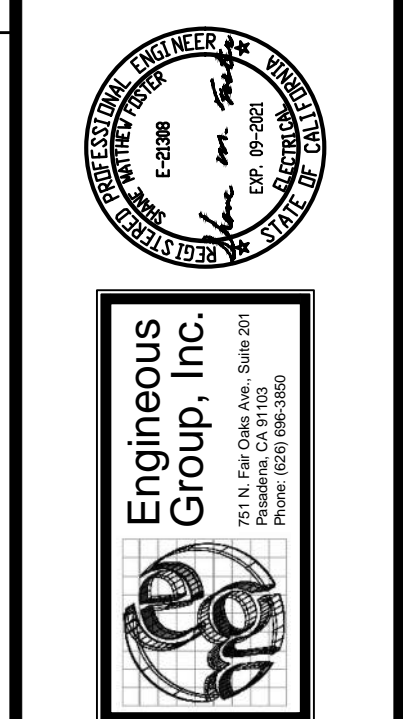


- POWER GENERAL NOTES
- 1 ALL CONDUITS SHALL BE RUN NEATLY AND PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS. CONDUIT ROUTING SHOWN ON PLAN IS DIAGRAMATIC AND IS INTENDED TO SHOW POSSIBLE FUNCTIONAL ROUTE OF CONDUITS AND CONDUCTORS. IN SOME CASES THE DRAWING SHOWS ROUTING WHICH MAY NOT BE PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL MEMBERS. THIS IS FOR CLARITY OF CIRCUITING AND NOT INTENDED TO APPROVE ANY DEVIATIONS FROM NEAT WORKMANSHIP.
  - 2 COMBINING OF MIDRANS AND OTHER CIRCUITS OTHER THAN WHAT IS SHOWN ON PLAN WILL NOT BE APPROVED.
  - 3 COMBINING OF EMERGENCY CIRCUITS WITH OTHER CIRCUITS IN CONDUITS AND/OR JUNCTION BOXES WILL NOT BE APPROVED.
  - 4 CONDUITS AND ROUTING FOUND OBJECTIONABLE BY THE ARCHITECT WILL BE REWORKED AT ELECTRICAL CONTRACTORS EXPENSE.
  - 5 ELECTRICAL CONTRACTOR SHALL PROVIDE APPROVED SEISMIC STRUCTURAL SUPPORTS AS CURRENTLY ADOPTED BY IBC OR CBC WHERE APPLICABLE FOR ALL FIXTURES, BOXES AND OTHER ELECTRICAL EQUIPMENT.
  - 6 ELECTRICAL CONTRACTOR SHALL VERIFY LOCATIONS AND MOUNTING HEIGHTS OF ALL OUTLETS AND EQUIPMENT WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

POWER GENERAL NOTES SCALE: NONE

- POWER PLAN KEYED NOTES (NOT ALL MAY APPLY)
- 1 INSTALL AND VERIFY LOCATION FOR NEW FIRE ALARM VALVE. CONTRACTOR SHALL VERIFY CONDUIT ROUTE AND CONNECTIONS PRIOR TO INSTALLATION.
  - 2 PRE-FABRICATED BUILDING MANUFACTURER SHALL EQUIP THE LUMINAIRE INSIDE THE INDICATED ZONE(S) WITH A 90-MIN BATTERY PACK AND CONSTANT HOT FEED TO CHARGE.
  - 3 PANEL IS FURNISHED AND INSTALLED BY BUILDING MANUFACTURER.
  - 4 NOT USED.
  - 5 NOT USED.
  - 6 INTERCEPT EXISTING FEEDERS AND PROVIDE POWER CONDUCTOR AND CONDUIT FROM EXISTING MAIN SWITCHBOARD 'MS' TO NEW MODULAR BUILDING DISTRIBUTION BOARD 'DBP-1'. REFER TO SINGLE LINE FOR RATINGS. CONTRACTOR SHALL VERIFY CONDUIT ROUTE AND CONNECTIONS PRIOR BID/CONSTRUCTION.
  - 7 NOT USED.
  - 8 CONDUITS FROM NEW DISTRIBUTION BOARD 'DBP-1' TO MODULAR BUILDING CLASSROOMS. CONTRACTOR SHALL VERIFY CONDUIT ROUTE AND CONNECTIONS PRIOR BID/CONSTRUCTION.
  - 9 NOT USED.
  - 10 CONDUITS FROM NEW DISTRIBUTION BOARD 'DBP-2' TO MODULAR BUILDING CLASSROOMS. CONTRACTOR SHALL VERIFY CONDUIT ROUTE AND CONNECTIONS PRIOR BID/CONSTRUCTION.
  - 11 INTERCEPT EXISTING FEEDERS AND PROVIDE POWER CONDUCTOR AND CONDUIT FROM EXISTING MAIN SWITCHBOARD 'MS' TO NEW MODULAR BUILDING DISTRIBUTION BOARD 'DBP-2'. REFER TO SINGLE LINE FOR RATINGS. CONTRACTOR SHALL VERIFY CONDUIT ROUTE AND CONNECTIONS PRIOR BID/CONSTRUCTION.

POWER PLAN KEY NOTES SCALE: NONE



REVISIONS

NO.	DATE	DESCRIPTION

DC ARCHITECTS  
 820 N. MOUNTAIN AVENUE  
 SUITE 200  
 UPLAND, CA 91786  
 (909) 965-6699 OFFICE  
 (909) 965-6694 FAX

NEW 2 STORY BUILDING  
 GLENOAKS ELEMENTARY SCHOOL  
 2015 E. GLEN OAKS BLVD  
 GLENDALE, CALIFORNIA 91206  
 GLENDALE UNIFIED SCHOOL DISTRICT

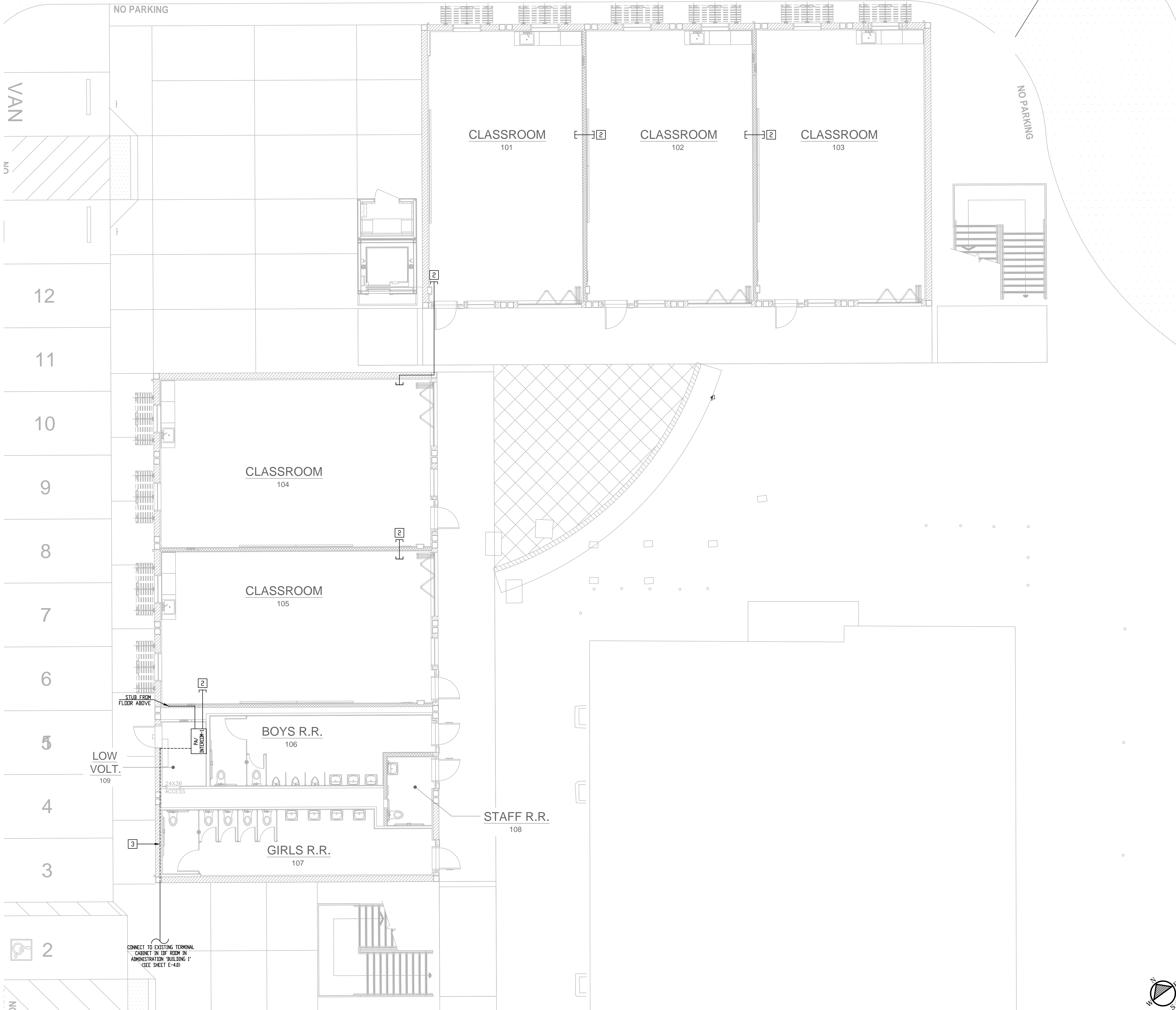
ELECTRICAL ENLARGED  
 FIRST FLOOR PLAN -  
 LOCAL FIRE AUTHORITY -  
 2 STORY MODULAR CLASSROOM

DATE: 01.05.2021	SCALE: 3/16"=1'-0"
BY: JJK	
CHECKED: JJK	
DATE: 01.05.2021	
SCALE: 3/16"=1'-0"	

E-2.1







DATA GENERAL NOTES

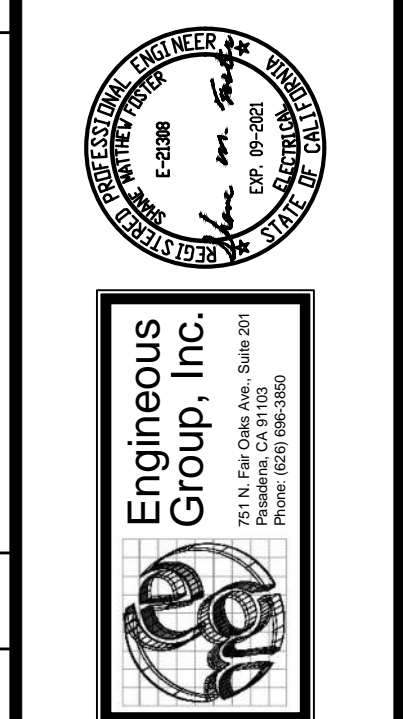
- 1 ALL CONDUITS SHALL BE RUN NEATLY AND PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS. CONDUIT ROUTING SHOWN ON PLAN IS DIAGRAMATIC AND IS INTENDED TO SHOW POSSIBLE FUNCTIONAL ROUTE OF CONDUITS AND CONDUCTORS. IN SOME CASES THE DRAWING SHOWS ROUTING WHICH MAY NOT BE PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL MEMBERS. THIS IS FOR CLARITY OF CIRCUITING AND NOT INTENDED TO APPROVE ANY DEVIATIONS FROM NEAT WORKMANSHIP.
- 2 COMBINING OF HUBBERS AND OTHER CIRCUITS OTHER THAN WHAT IS SHOWN ON PLAN WILL NOT BE APPROVED.
- 3 COMBINING OF EMERGENCY CIRCUITS WITH OTHER CIRCUITS IN CONDUITS AND/OR JUNCTION BOXES WILL NOT BE APPROVED.
- 4 CONDUITS AND ROUTING FOUND OBJECTIONABLE BY THE ARCHITECT WILL BE REWORKED AT ELECTRICAL CONTRACTORS EXPENSE.
- 5 ELECTRICAL CONTRACTOR SHALL PROVIDE APPROVED SEISMIC STRUCTURAL SUPPORTS AS CURRENTLY ADOPTED BY IBC OR CBC WHERE APPLICABLE FOR ALL FIXTURES, BOXES AND OTHER ELECTRICAL EQUIPMENT.
- 6 ELECTRICAL CONTRACTOR SHALL VERIFY LOCATIONS AND MOUNTING HEIGHTS OF ALL OUTLETS AND EQUIPMENT WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

DATA GENERAL NOTES SCALE: NONE

POWER PLAN KEYED NOTES (NOT ALL MAY APPLY)

- 1 NOT USED.
- 2 PROVIDE (2) 2" CONDUIT SLEEVES FOR LOW VOLTAGE CONDUCTORS, INSTALLED AT 24" BELOW GRADE. CONTRACTOR SHALL VERIFY CONDUIT ROUTE AND CONNECTIONS PRIOR TO CONSTRUCTION.
- 3 PROVIDE 2" CONDUIT ONLY FOR CAT6 DATA/FIBER FROM EXISTING TERMINAL CABINET IN BUILDING 1000 TO NEW "PA/INTERCOM" IN LOW VOLT ROOM 109 ON GROUND LEVEL. RUN 2" CONDUIT ONLY FOR CAT6 DATA/FIBER BELOW MODULAR BUILDING CONSTRUCTION AND STUB UP TO SECOND LEVEL OF NEW MODULAR BUILDING. CONTRACTOR SHALL VERIFY CONDUIT ROUTE AND CONNECTIONS PRIOR TO CONSTRUCTION.

DATA PLAN KEY NOTES SCALE: NONE



NO.	DATE	DESCRIPTION

DC | ARCHITECTS

820 N. MOUNTAIN AVENUE  
SUITE 200  
UPLAND, CA 91786

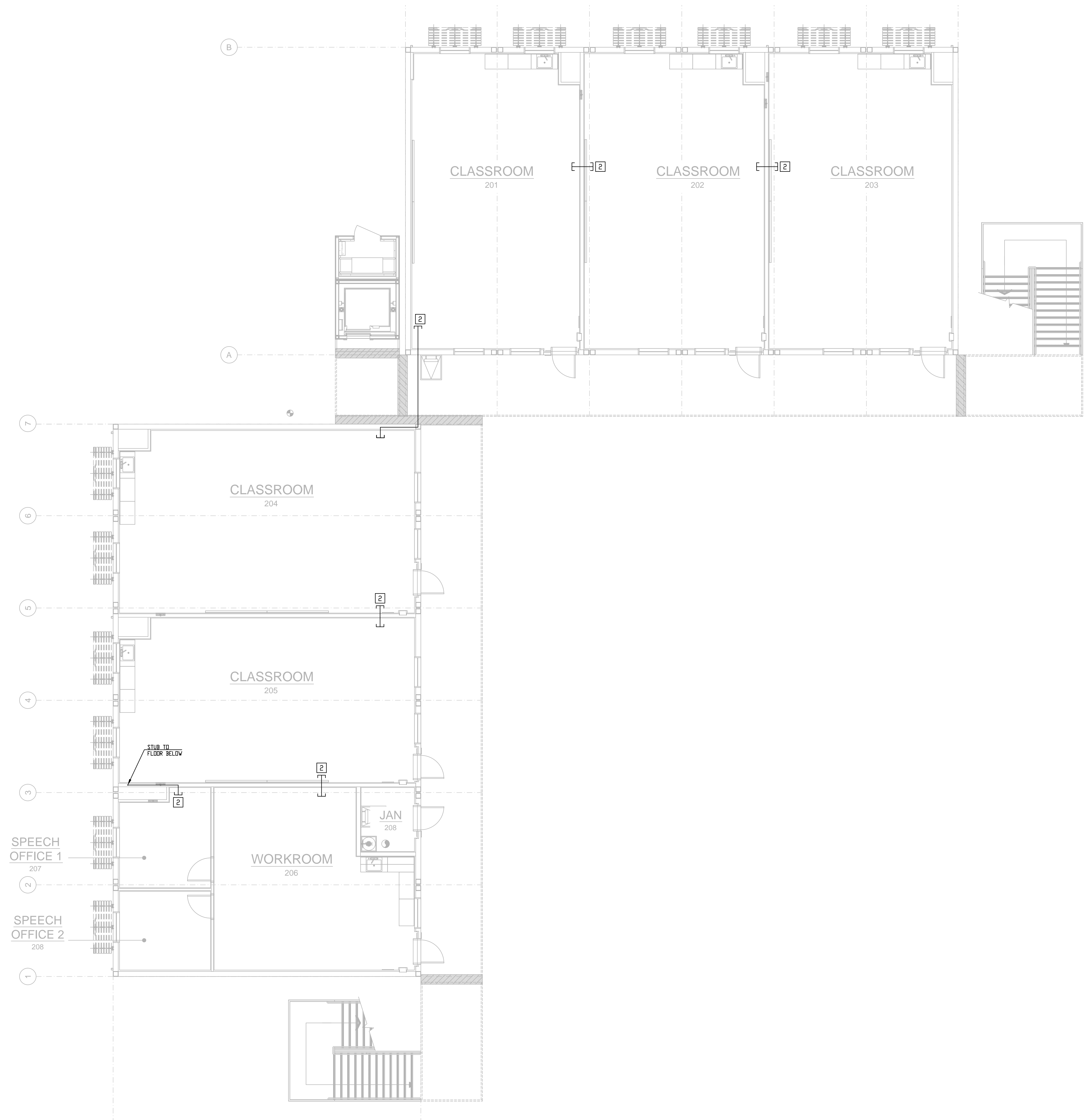
(909) 965-6699 OFFICE  
(909) 365-6664 FAX

NEW 2 STORY BUILDING  
GLEN OAKS ELEMENTARY SCHOOL  
2015 E. GLEN OAKS BLVD  
GLENDALE, CALIFORNIA 91206  
GLENDALE UNIFIED SCHOOL DISTRICT

COMM. ENLARGED  
FIRST FLOOR PLAN -  
LOCAL FIRE AUTHORITY -  
2 STORY MODULAR CLASSROOM

DATE: 2019.05.08	SCALE: 3/16"=1'-0"
DATE: 01.05.2021	SCALE: 3/16"=1'-0"
DATE: 01.05.2021	SCALE: 3/16"=1'-0"

E-4.1

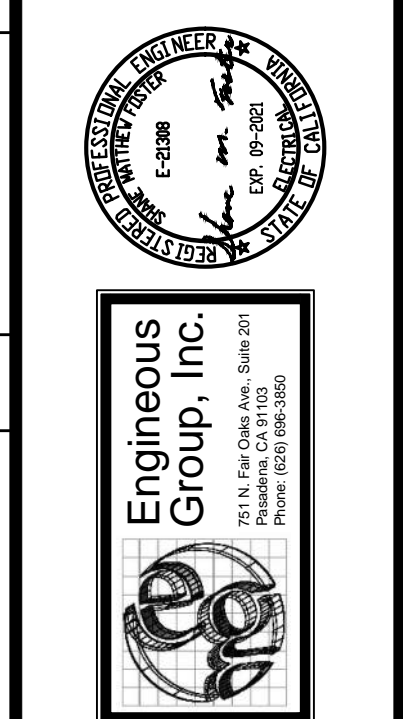


- DATA GENERAL NOTES
- ALL CONDUITS SHALL BE RUN NEATLY AND PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS. CONDUIT ROUTING SHOWN ON PLAN IS DIAGNOSTIC AND IS INTENDED TO SHOW POSSIBLE FUNCTIONAL ROUTE OF CONDUITS AND CONDUCTORS. IN SOME CASES THE DRAWING SHOWS ROUTING WHICH MAY NOT BE PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL MEMBERS, THIS IS FOR CLARITY OF CIRCUITING AND NOT INTENDED TO APPROVE ANY DEVIATIONS FROM NEAT WORKMANSHIP.
  - COMBINING OF HUBERLINS AND OTHER CIRCUITS OTHER THAN WHAT IS SHOWN ON PLAN WILL NOT BE APPROVED.
  - COMBINING OF EMERGENCY CIRCUITS WITH OTHER CIRCUITS IN CONDUITS AND/OR JUNCTION BOXES WILL NOT BE APPROVED.
  - CONDUITS AND ROUTING FOUND OBJECTIONABLE BY THE ARCHITECT WILL BE REWORKED AT ELECTRICAL CONTRACTORS EXPENSE.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE APPROVED SEISMIC STRUCTURAL SUPPORTS AS CURRENTLY ADOPTED BY IBC OR CBC WHERE APPLICABLE FOR ALL FIXTURES, BOXES AND OTHER ELECTRICAL EQUIPMENT.
  - ELECTRICAL CONTRACTOR SHALL VERIFY LOCATIONS AND MOUNTING HEIGHTS OF ALL OUTLETS AND EQUIPMENT WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

DATA GENERAL NOTES SCALE: NONE

- POWER PLAN KEYED NOTES (NOT ALL MAY APPLY)
- NOT USED.
  - PROVIDE (2) 2" CONDUIT SLEEVES FOR LOW VOLTAGE CONDUCTORS, INSTALLED AT 24" BELOW GRADE. CONTRACTOR SHALL VERIFY CONDUIT ROUTE AND CONNECTIONS PRIOR BID/CONSTRUCTION.

DATA PLAN KEY NOTES SCALE: NONE



NO.	REVISIONS

**DC | ARCHITECTS**

820 N. MOUNTAIN AVENUE  
SUITE 200  
UPLAND, CA 91786

(909) 965-6699 OFFICE  
(909) 365-6664 FAX

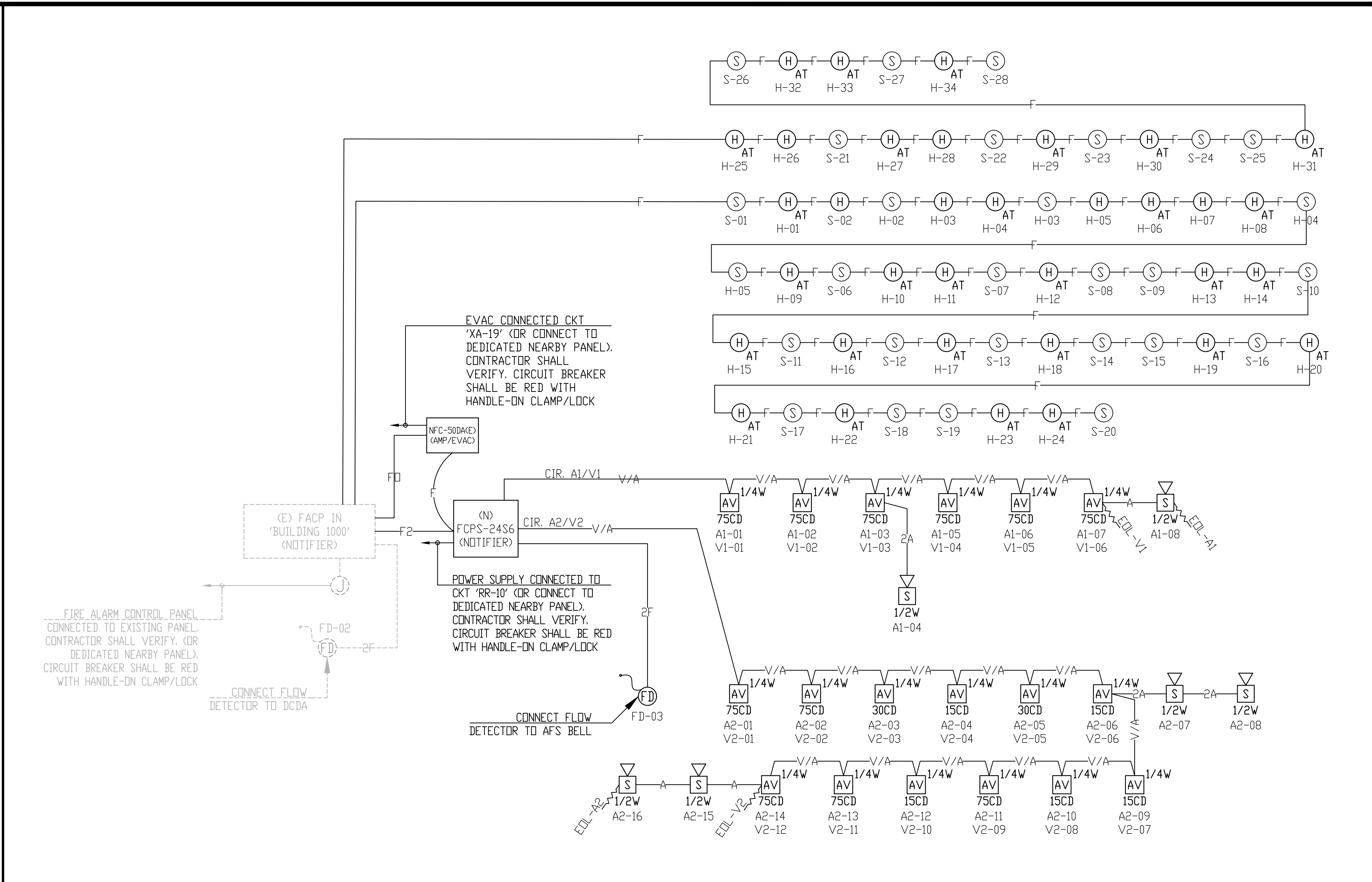
NEW 2 STORY BUILDING  
GLEN OAKS ELEMENTARY SCHOOL  
2015 E. GLEN OAKS BLVD  
GLENDALE, CALIFORNIA 91206  
GLENDALE UNIFIED SCHOOL DISTRICT

COMM. ENLARGED  
SECOND FLOOR PLAN -  
LOCAL FIRE AUTHORITY -  
2 STORY MODULAR CLASSROOM

DATE PLOTTED 2019/06/08	DESIGNED BY J.H.K.	CHECKED BY J.H.K.	DATE 01/05/2021	SCALE 00/00000
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F-4.2





FIRE ALARM RISER DIAGRAM SCALE: NONE

STROBE/HORN BATTERY CALCULATION - (E) FACP IN BLDG-1 (A# 03-107450)					
DEVICE	QTY.	CURRENT STANDBY (A)	CURRENT ALARM (A)	TOTAL STANDBY (A)	TOTAL ALARM (A)
2020 : BE-1010	1	0.1160	0.1160	0.1160	0.1160
2020 : LP-200	1	0.0490	0.0490	0.0490	0.0490
2020 : SB 2048	1	0.0550	0.0550	0.0550	0.0550
2020 : UZC-256	1	0.0350	0.0350	0.0350	0.0350
2020 : XPC-8, 8	2	0.0330	0.0090	0.0660	0.0180
2020 : APP-1	1	0.0230	0.0090	0.0230	0.0090
PS : AVPS-24	1	0.0090	0.0090	0.0090	0.0090
PS : MPS 24A	1	0.1040	0.0640	0.1040	0.0640
MOD : M : BCX-101L	19	0.0002	0.0002	0.0038	0.0038
HORN : GMH-24	13	0.0000	0.0450	0.0000	0.5850
STR : GXS-4-1575	12	0.0000	0.2000	0.0000	2.4000
ANN : LCD-80	1	0.0500	0.1000	0.0500	0.1000
H/S : P2475	10	0.0000	0.2450	0.0000	2.4500
MOD : MMX	1	0.0003	0.0003	0.0003	0.0003
MPS : NRG-121X	3	0.0002	0.0002	0.0006	0.0006
HEAT : FST-751	30	0.0002	0.0002	0.0060	0.0060
SMOKE : PSP-751	75	0.0002	0.0002	0.0150	0.0150
H/S : P2415	4	0.0000	0.0680	0.0000	0.2720
H/S : P2475	12	0.0000	0.1480	0.0000	1.7760
MOD : FCM	3	0.0003	0.0003	0.0009	0.0009
MOD : FMM	3	0.0003	0.0003	0.0009	0.0009
STROBE : S2415	17	0.0000	0.0430	0.0000	0.7310
STROBE : S2475	4	0.0000	0.1230	0.0000	0.4920
EXISTING FLOW DETECTOR MONITOR MODULE	1	0.0000	0.0050	0.0000	0.0050
NEW FIRE ALARM REMOTE POWER SUPPLY (FAPS)	1	0.0020	3.2000	0.0020	3.2000
NEW SMOKE DETECTORS - 2 STORY MOD. BLDG.	28	0.0003	0.0065	0.0084	0.1820
NEW HEAT DETECTORS - 2 STORY MOD. BLDG.	34	0.0003	0.0065	0.0102	0.2210
<b>TOTAL</b>				<b>0.5551</b>	<b>12.7965</b>

ALARM CURRENT X ALARM TIME / 60 = AMP/HR FOR ALARM			
12.7965	X	1/12	= 1.0664

STANDBY CURRENT X 24 = AMP/HR FOR ALARM			
0.5551	X	24	= 13.3224

ADJUSTED BATTERY CAPACITY	
REQUIRED STANDBY CAPACITY (AMP-HOURS) - REQUIRED ALARM CAPACITY (AMP-HOURS)	14.3888
REQUIRED CAPACITY WITH SAFETY FACTOR (120%)	17.2665
<b>BATTERY SIZE</b>	<b>25 AMP HR.</b>

(E) FACP REVISED BATTERY CALCULATION SCALE: NONE

PORTABLES STROBE/SPEAKER BATTERY CALCULATION - (N) FAPS					
DEVICE	QTY.	CURRENT STANDBY (A)	CURRENT ALARM (A)	TOTAL STANDBY (A)	TOTAL ALARM (A)
75cd STROBE (CEILING)	11	0.0000000	0.1110	0.0000000	1.2210000
75cd SPEAKER (1/4W CEILING)	11	0.0000000	0.0104	0.0000000	0.1144000
30cd STROBE (CEILING)	2	0.0000000	0.0630	0.0000000	0.1260000
30cd SPEAKER (1/4W CEILING)	2	0.0000000	0.0104	0.0000000	0.0208000
15cd STROBE (CEILING)	5	0.0000000	0.0410	0.0000000	0.2050000
15cd SPEAKER (1/4W CEILING)	5	0.0000000	0.0104	0.0000000	0.0520000
FA HORN WP (1/2W)	6	0.0000000	0.0208	0.0000000	0.1248000
FLOW DETECTOR MONITOR MODULE	1	0.0000	0.0050	0.0000000	0.0050000
POWER SUPPLY	1	0.0020	3.2000	0.0020000	3.2000000
<b>TOTAL</b>				<b>0.0020</b>	<b>5.0690</b>

ALARM X ALARM TIME / 60 = AMP/HR FOR ALARM			
5.0690	X	1/4	= 1.2673

STANDBY CURRENT X 24 = AMP/HR FOR ALARM			
0.0020	X	24	= 0.0480

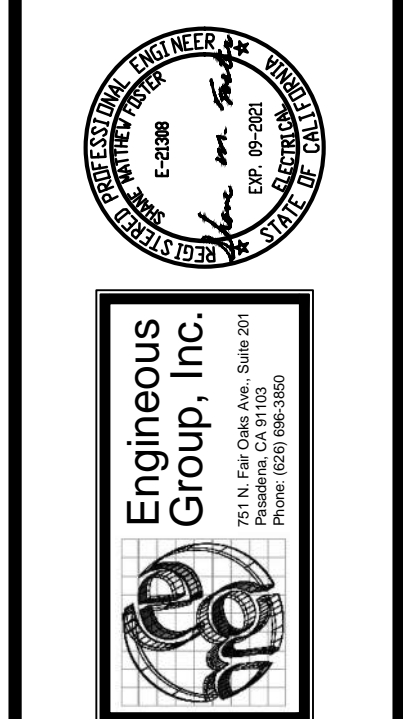
  

ADJUSTED BATTERY CAPACITY	
REQUIRED STANDBY CAPACITY (AMP-HOURS) - REQUIRED ALARM CAPACITY (AMP-HOURS)	1.3153
REQUIRED CAPACITY WITH SAFETY FACTOR (120%)	1.5783
<b>NEW BATTERY SIZE</b>	<b>7 AMP HR.</b>

FAPS BATTERY CALCULATION - 2 STORY MODULAR BLDG. SCALE: NONE

(N) FAPS STROBE/SPEAKER WORSE CASE VOLTAGE DROP CALCULATION							
FAPS SIGNAL CIRCUIT	QTY.	DESCRIPTION	ALARM (A)	TOTAL (A)			
75cd STROBE (CEILING)	11		0.1110	1.2210			
75cd SPEAKER (1/4W CEILING)	11		0.0104	0.1144			
30cd STROBE (CEILING)	2		0.0630	0.1260			
30cd SPEAKER (1/4W CEILING)	2		0.0104	0.0208			
15cd STROBE (CEILING)	5		0.0410	0.2050			
15cd SPEAKER (1/4W CEILING)	5		0.0104	0.0520			
FLOW DETECTOR MONITOR MODULE	1		0.0050	0.0050			
FA SPEAKER WP (1/2W)	6		0.0208	0.1248			
<b>TOTAL</b>				<b>1.8690</b>			
				<b>0.0000 A</b>			
<b>CIRCULAR MILLS</b>	<b>1.8690</b>	<b>X</b>	<b>130</b>	<b>X</b>	<b>21.50</b>	<b>=</b>	<b>0.8000</b>
							<b>VD</b>
<b>VOLTAGE</b>	<b>0.8000</b>	<b>X</b>	<b>100</b>	<b>=</b>	<b>3.3340</b>		<b>VD%</b>
							<b>24</b>

(N) FAPS VOLTAGE DROP CALCULATION SCALE: NONE



REVISIONS

DC ARCHITECTS

820 N. MOUNTAIN AVENUE  
SUITE 200  
UPLAND, CA 91786

(909) 985-6989 OFFICE  
(909) 985-6847 FAX

NEW 2 STORY BUILDING  
GLENDALE ELEMENTARY SCHOOL  
2015 E. GLEN OAKS BLVD  
GLENDALE, CALIFORNIA 91206  
GLENDALE UNIFIED SCHOOL DISTRICT

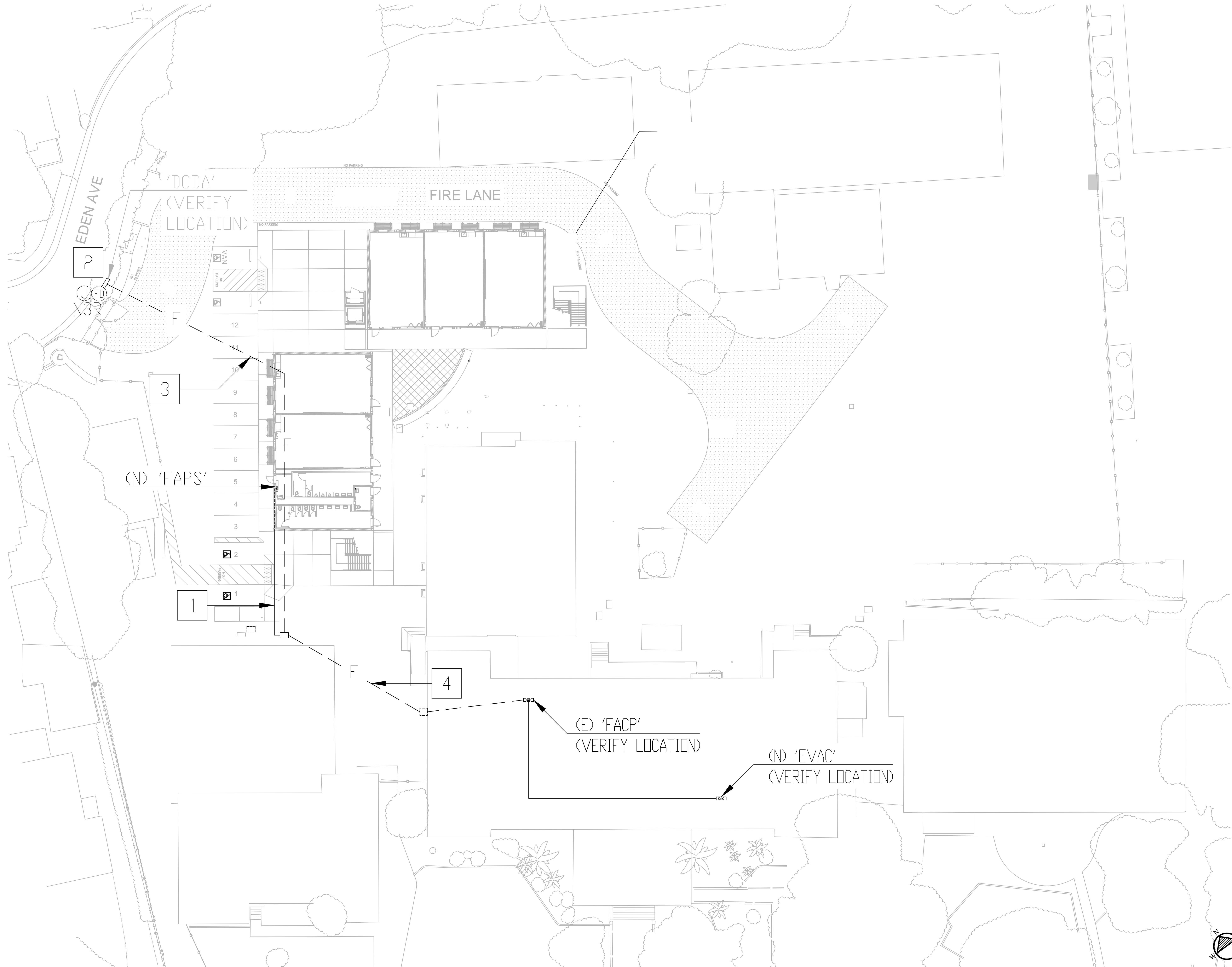
FIRE ALARM  
RISER DIAGRAM  
& CALCULATIONS

DATE: 2010.09  
DRAWN: J.H.  
CHKD: D.J.  
DATE: 10/01/2021  
SCALE: 1/8"=1'-0"  
SHEET NO: 00/00000

FA-0.1

BID SET 10/01/2021





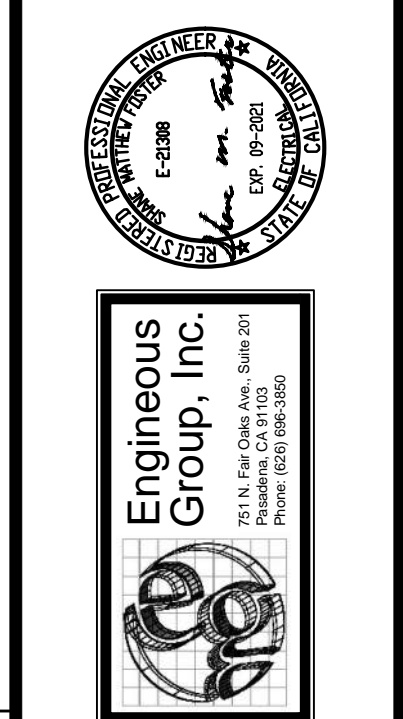
**SITE PLAN GENERAL NOTES**

- 1 ALL CONDUITS SHALL BE RUN NEATLY AND PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS. CONDUIT ROUTING SHOWN ON PLAN IS DIAGNOSTIC AND IS INTENDED TO SHOW POSSIBLE FUNCTIONAL ROUTE OF CONDUITS AND CONDUCTORS. IN SOME CASES THE DRAWING SHOWS ROUTING WHICH MAY NOT BE PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL MEMBERS. THIS IS FOR CLARITY OF CIRCUITING AND NOT INTENDED TO APPROVE ANY DEVIATION FROM NEAT WORKMANSHIP.
- 2 COMBINING OF HEMERALS AND OTHER CIRCUITS OTHER THAN WHAT IS SHOWN ON PLAN WILL NOT BE APPROVED.
- 3 COMBINING OF EMERGENCY CIRCUITS WITH OTHER CIRCUITS IN CONDUITS AND/OR JUNCTION BOXES WILL NOT BE APPROVED.
- 4 CONDUITS AND ROUTING FOUND OBJECTIONABLE BY THE ARCHITECT WILL BE REWORKED AT ELECTRICAL CONTRACTORS EXPENSE.
- 5 ELECTRICAL CONTRACTOR SHALL PROVIDE APPROVED SEISMIC STRUCTURAL SUPPORTS AS CURRENTLY ADOPTED BY IBC OR CBC WHERE APPLICABLE FOR ALL FIXTURES, BOXES AND OTHER ELECTRICAL EQUIPMENT.
- 6 ELECTRICAL CONTRACTOR SHALL VERIFY LOCATIONS AND MOUNTING HEIGHTS OF ALL OUTLETS AND EQUIPMENT WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

**SITE PLAN KEYNOTES**

- 1 PROVIDE 2" CONDUIT FOR FIRE ALARM SYSTEM FROM EXISTING FACP (NOTIFIED) IN BUILDING 1001 TO NEW MODULAR BUILDING. CONTRACTOR SHALL VERIFY CONDUIT ROUTE AND CONNECTIONS PRIOR BID/CONSTRUCTION.
- 2 EXISTING LOOP CONNECTION BACK TO EXISTING FIRE ALARM CONTROL PANEL IN BUILDING 1 FOR FLOW DETECTOR AT DCDA LOCATION. CONTRACTOR SHALL VERIFY LOCATION OF CONDUIT ROUTE PRIOR BID/CONSTRUCTION.
- 3 EXISTING CONDUIT AND CONDUCTORS TO FLOW DETECTOR TAMPER SWITCH AT DCDA LOCATION.
- 4 EXISTING UNDERGROUND FIRE ALARM CONDUITS AND CONDUCTORS.

**SITE PLAN KEYNOTES** SCALE: NONE



REVISIONS

**DC | ARCHITECTS**

820 N. MOUNTAIN AVENUE  
SUITE 200  
UPLAND, CA 91786

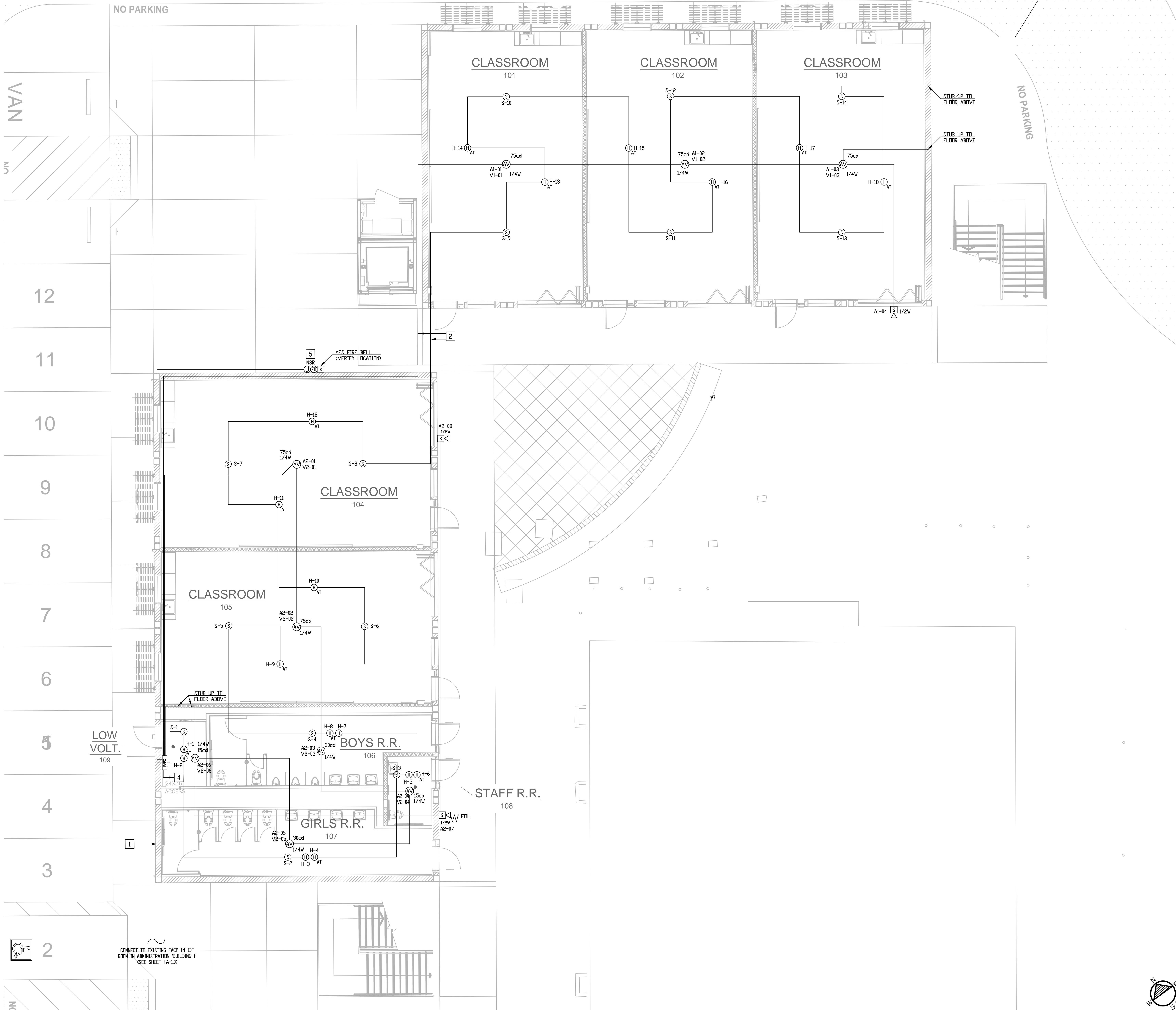
(909) 965-6699 OFFICE  
(909) 365-6664 FAX

**NEW 2 STORY BUILDING  
GLENDALE ELEMENTARY SCHOOL  
2015 E. GLEN OAKS BLVD  
GLENDALE, CALIFORNIA 91206  
GLENDALE UNIFIED SCHOOL DISTRICT**

**OVERALL  
FIRE ALARM SITE PLAN -  
LOCAL FIRE AUTHORITY -  
2 STORY MODULAR CLASSROOM**

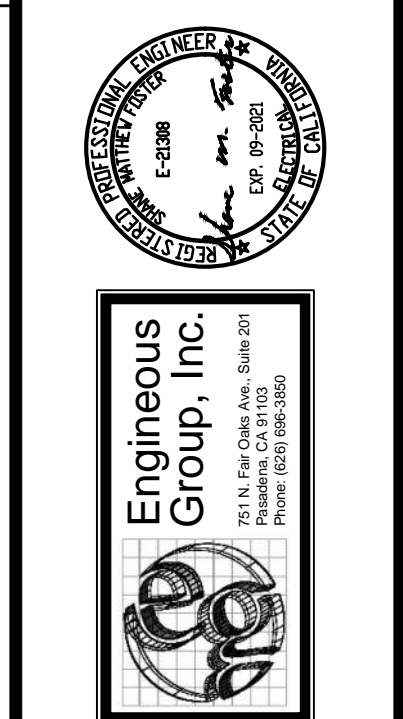
DATE: 2010/06/08	SCALE: 1/16"=1'-0"
DESIGNER: JJK	
DATE: 01/05/2021	
DRAWN BY: JJK	
CHECKED BY: JJK	
DATE: 01/05/2021	
SCALE: 1/16"=1'-0"	

**FA-1.0**



- FIRE ALARM PLAN KEYED NOTES (NOT ALL MAY APPLY)
- 1 PROVIDE 2" CONDUIT ONLY FOR FIRE ALARM FROM EXISTING FIRE ALARM CONTROL PANEL. "FACP" IN BUILDING 100P TO NEW "FAPS" IN LOW VOLT ROOM 109. RUN 2" CONDUIT ONLY FOR FIRE ALARM BELOW BUILDING CONSTRUCTION AND STUB UP TO SECOND LEVEL OF NEW MODULAR BUILDING. CONTRACTOR SHALL VERIFY CONDUIT ROUTE AND CONNECTIONS PRIOR TO CONSTRUCTION.
  - 2 PROVIDE (1) 2" C.D. UNDERGROUND CONDUITS AND CONDUCTORS INSTALLED FOR FIRE ALARM.
  - 3 EXISTING FIRE ALARM WIRING CONTRACTOR SHALL VERIFY CONDITIONS OF EXISTING CONDUITS, CONDUCTORS, AND DEVICES PRIOR TO CONSTRUCTION.
  - 4 CONNECT FIRE ALARM POWER SUPPLY TO CIRCUIT "RR-10", WITH A DEDICATED IP20A 120V BREAKER. CIRCUIT BREAKER SHALL BE RED WITH HANDLE-ON CLAMP/LOCK. CONTRACTOR SHALL VERIFY CIRCUIT.
  - 5 PROVIDE NEW FLOW DETECTOR MONITOR MIDDLE AT AFS BELL LOCATION. CONTRACTOR SHALL VERIFY CONDUIT ROUTE AND CONNECTIONS PRIOR TO INSTALLATION.

FIRE ALARM GENERAL NOTES SCALE: NONE



NO.	DATE	DESCRIPTION

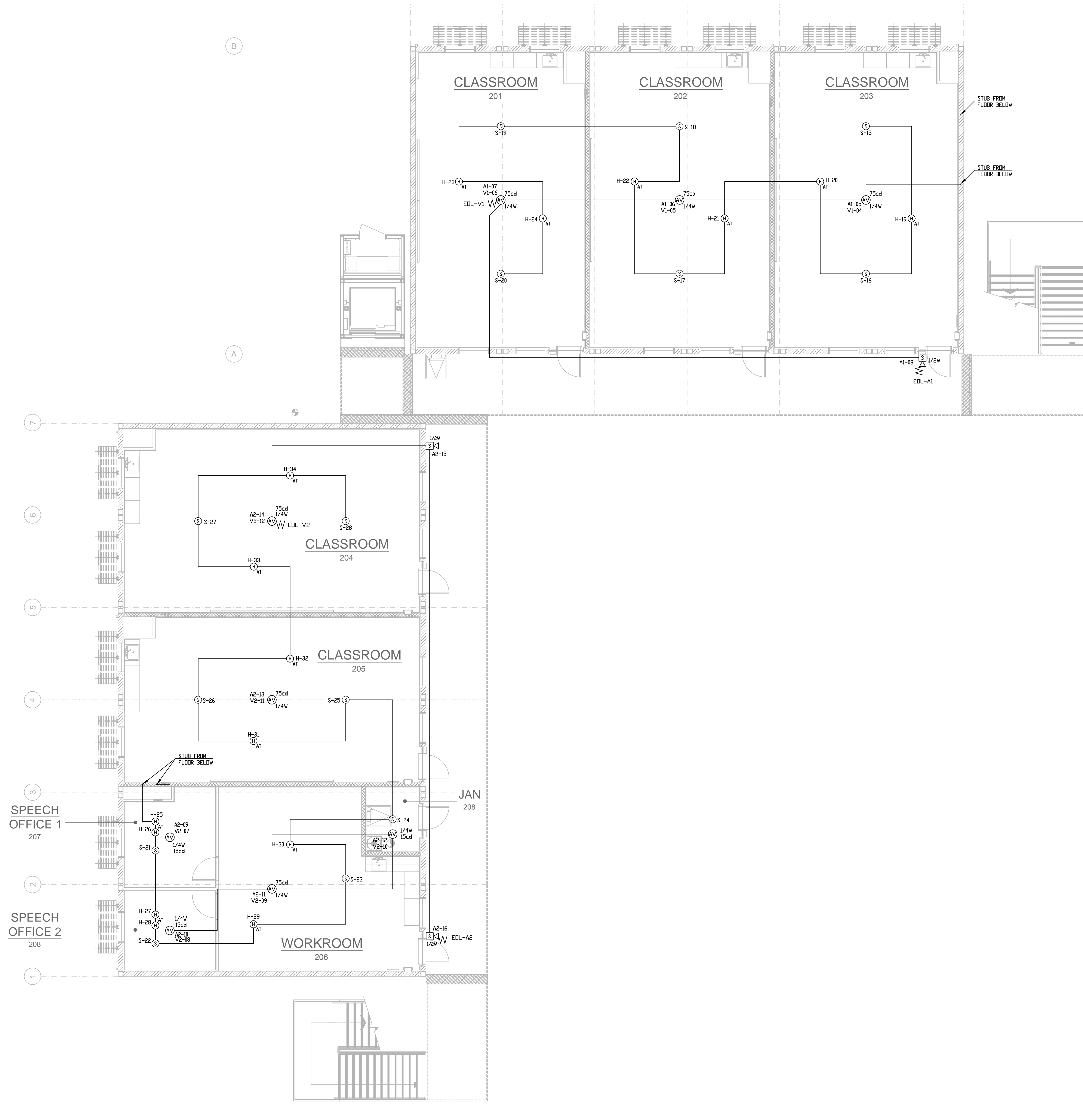
**DC ARCHITECTS**  
 820 N. MOUNTAIN AVENUE  
 SUITE 200  
 UPLAND, CA 91786  
 (909) 965-6889 OFFICE  
 (909) 365-6884 FAX

NEW 2 STORY BUILDING  
 GLENOAKS ELEMENTARY SCHOOL  
 2015 E. GLEN OAKS BLVD  
 GLENDALE, CALIFORNIA 91206  
 GLENDALE UNIFIED SCHOOL DISTRICT

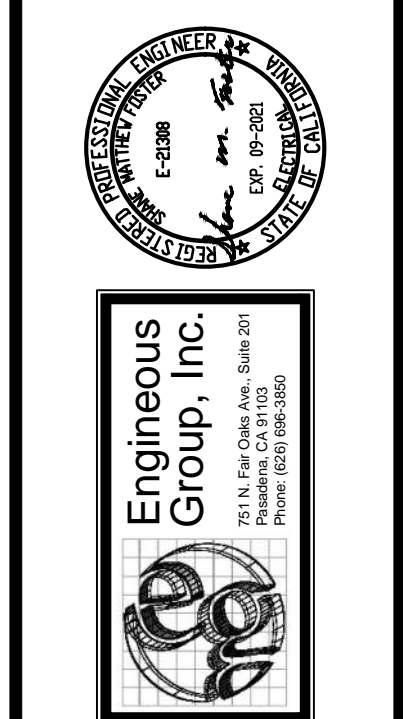
FIRE ALARM  
 FIRST FLOOR PLAN -  
 LOCAL FIRE AUTHORITY -  
 2 STORY MODULAR CLASSROOM

DATE PLOTTED	2019.05.08
DATE	01.05.2021
SCALE	AS SHOWN
PROJECT NO.	00-00000

FA-2.1



FIRE ALARM GENERAL NOTES SCALE: NONE



NO.	DESCRIPTION

**DC ARCHITECTS**  
 820 N. MOUNTAIN AVENUE  
 SUITE 200  
 UPLAND, CA 91786  
 (909) 965-6899 OFFICE  
 (909) 965-6894 FAX

NEW 2 STORY BUILDING  
 GLENOAKS ELEMENTARY SCHOOL  
 2015 E. GLEN OAKS BLVD  
 GLENDALE, CALIFORNIA 91206  
 GLENDALE UNIFIED SCHOOL DISTRICT

FIRE ALARM  
 SECOND FLOOR PLAN -  
 LOCAL FIRE AUTHORITY -  
 2 STORY MODULAR CLASSROOM

DATE: 10/05/2021	BY: JJK
SCALE: 3/16"=1'-0"	NO: 09/0000

FA-2.2

APPLICABLE CODES

- PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2017
• 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC) - PART 1, TITLE 24, CCR
• 2019 CALIFORNIA BUILDING CODE (CBC), VOLUME 1 & 2 - (PART 2, TITLE 24, CCR) BASED ON THE 2015 INTERNATIONAL BUILDING CODE
• 2019 CALIFORNIA ELECTRICAL CODE (CEC) - (PART 3, TITLE 24, CCR) BASED ON THE 2014 NATIONAL ELECTRICAL CODE
• 2019 CALIFORNIA MECHANICAL CODE (CMC) - (PART 4, TITLE 24, CCR) BASED ON THE 2015 UNIFORM MECHANICAL CODE
• 2019 CALIFORNIA PLUMBING CODE (CPC) - (PART 5, TITLE 24, CCR) BASED ON THE 2015 UNIFORM PLUMBING CODE
• 2019 CALIFORNIA ENERGY CODE (CEC) - (PART 6, TITLE 24, CCR)
• 2019 CALIFORNIA FIRE CODE (CFC) - (PART 9, TITLE 24, CCR) BASED ON THE 2015 INTERNATIONAL FIRE CODE
• 2019 CALIFORNIA GREEN BUILDING CODE (CGC) - (PART 11, TITLE 24, CCR)
• 2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
• 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

GENERAL NOTES

- 1. ELEVATOR AND ELEVATOR STRUCTURE IS REQUIRED BUT IS PER PC 03-118291.
2. FIRE ALARM SYSTEM IS NOT PART OF THIS APPROVAL. REFER TO SITE FIRE ALARM PLANS.
3. FIRE SPRINKLER SYSTEM IS NOT PART OF THIS APPROVAL. REFER TO FIRE SPRINKLER DRAWINGS.
4. BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
5. BUILDINGS LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A.
6. BUILDING IS NOT APPROVED TO HOUSE KINDERGARTEN, FIRST OR SECOND GRADE ABOVE THE FIRST STORY IN CONFORMANCE TO C.B.C. 442.1.4. NOT FOR USE IN SPECIAL HAZARD SUCH AS SCIENCE LAB AND VOCATIONAL SHOP OCCUPANCY.
7. SITE SPECIFIC PROJECTS INCLUDING THESE APPROVED BUILDING PLANS MUST BE SUBMITTED TO DSA FOR REGULAR PROJECT REVIEW AND MAY NOT BE SUBMITTED FOR OVER-THE-COUNTER (OTC) PLAN REVIEW.
8. THIS BUILDING REQUIRES AN AUTOMATIC FIRE SPRINKLER SYSTEM (AFSS) APPROVED BY DSA. THE FIRE SPRINKLER SYSTEM PLANS, FIRE FLOW TEST, UNDERGROUND PIPING SYSTEM, HYDRAULIC CALC'S, AND LOCAL FIRE SIGN OFF MUST BE PROVIDED WITH SITE SPECIFIC PROJECT. DESIGN AND PLANS FOR THE AFSS MAY NOT BE DEFERRED. (NOTE: SEE BUILDING DATA THIS SHEET FOR FIRE SPRINKLER SYSTEM WEIGHT INCLUDED IN BUILDING DESIGN)
9. IF THE STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF THE SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD. BUILDING FOUNDATIONS ARE NOT DESIGNED FOR LIQUEFIABLE SOILS.
10. THIS BUILDING IS NOT DESIGNED FOR FLOOD HAZARD AREAS.
11. THE PLACEMENT OF THE BUILDING(S) ON OR ADJACENT TO SLOPES SHALL COMPLY WITH THE FOUNDATION CLEARANCES FROM SLOPES' SPECIFICATIONS FOUND ON SHEET N2.0 OF THESE DRAWINGS.
12. BUILDING SHALL NOT BE PLACED OR BE RELOCATED IN AREAS HAVING A NOISE CONTOUR GREATER THAN OR EQUAL TO 65 CNEL, OR IN AREAS EXPOSED TO A NOISE LEVEL OF 65 dBL, 1-hr DURING ANY HOUR OF OPERATION WHEN NOISE CONTOURS ARE NOT READILY AVAILABLE, AS SPECIFIED IN CALGREEN CODE, SECTION 5.507.4.1 & 5.507.4.1.1.
13. THIS BUILDING IS NOT DESIGNED FOR SNOW LOADS.
14. THE BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER AT OCCUPANCY THE OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF MECHANICAL EQUIPMENT AND LIGHTING SYSTEMS.

SITE-SPECIFIC OPTIONS

Form with options for ROOFING, FLOOR DECK, FLOOR LIVE LOAD, WALL STUDS, EXTERIOR WALL FINISH, PARAPET, HVAC, CEILING HEIGHT, FIRE SPRINKLERS, SOLATUBE ON ROOF, STAIRS, ELEVATOR ROOF, LIQUEFIABLE SOILS

Form with options for GEOTECHNICAL FIRM, GEOTECHNICAL REPORT #3-220-0584 DATE:09-18-20, GEOHAZARD REPORT #3-220-0584 DATE:09-18-20, ALLOWABLE SOIL BEARING CAPACITY (PSF), DEEPER FOOTINGS REQUIRED?, WIDER FOOTINGS REQUIRED?, OTHER FOUNDATION REQUIREMENTS: YES- EXPLAIN

SITE SPECIFIC SEISMIC CRITERIA:

Form with seismic criteria: SITE SPECIFIC Ss = 2.149, SITE CLASS = C, SITE SPECIFIC S1 = 0.765, SITE SPECIFIC SDS = 1.719, SITE SPECIFIC SD1 = 0.714

Form with seismic data: SEISMIC: RISK CATEGORY II, Omega\_0 = 3.0, T = 0.370s, R = 3.5 (OMF), Fv = 1.4, P = 1.0, Cd = 3.0, SEISMIC DESIGN CATEGORY: D (S1 <= 0.75) E (0.75 < S1 < 1.5)^{(a)}, Ia = 1.25

LATERAL FORCE RESISTING SYSTEM: LIGHT MODULAR STEEL MOMENT FRAMES PER CBC SECTION 2212A
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

NOTE: ALL COMPONENTS AND CLADDING DESIGNED FOR Sps=1.90.

FOOTNOTES:

- (a) A GEOTECHNICAL REPORT AND GEOHAZARD REPORT IS REQUIRED PER 2019 CAC 4.3.17(b) AND 2019 CBC SECTION 1833A. THE GEOHAZARD REPORT MUST BE SUBMITTED TO DSA FOR ACCEPTANCE. A 2% INCREASE IN SOIL BEARING CAPACITY IS NOT PERMITTED UNLESS USING THE ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1659A.3.2.
(b) PER CBC SECTION 1616A.1.3, FOR BUILDINGS ASSIGNED TO SEISMIC DESIGN CATEGORY E (S1 > 0.75), A GROUND MOTION HAZARD ANALYSIS SHALL BE PERFORMED IN ACCORDANCE WITH ASCE 7, CHAPTER 21 AS MODIFIED BY SECTION 1833A.6 OF THE 2019 CBC.

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American Modular Systems

(2) 72 x 40'

2 STORY MODULAR CLASSROOM BUILDINGS

Table with columns: BUILDING DATA, SHEET INDEX (ARCHITECTURAL, STRUCTURAL), and MECHANICAL, ELECTRICAL, FIRE SPRINKLERS, PLUMBING. Includes options, sheet numbers, and sheet titles.



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SET NAME
(2) 72'x40' 2 STORY CLASSROOM BUILDINGS

SITE SPECIFIC PROJECT NAME
GLENDALE USD GLENOAKS ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

Table for REVISIONS, DRAWN BY: AH, SCALE: AS NOTED, DATE: 08/10/21, PROJECT NO: 1613-20, SHEET TITLE: TITLE SHEET

SHEET NUMBER: TS

BID SET 10/01/2021





DOORS					FRAMES			REMARKS		
DOOR NO.	DOOR TYPE	DOOR SIZE	QUANTITY	MATERIAL	FINISH	HARDWARE SET NO.	FRAME TYPE		MATERIAL	FINISH
1	D1	3'-0" x 7'-0"	11	HM	PT	A	(F1)	STL	PT	HARDWARE LOCKABLE FROM THE INSIDE, SEE DOOR NOTE #3
2	D2	3'-0" x 7'-0"	2	HM	PT	B	(F1)	STL	PT	
3	D2	3'-0" x 7'-0"	1	HM	PT	C	(F1)	STL	PT	
4	D1	3'-0" x 7'-0"	1	HM	PT	D	(F2)	STL	PT	
5	D2	3'-0" x 7'-0"	1	HM	PT	D	(F1)	STL	PT	

**DOOR ABBREVIATIONS**  
HM - HOLLOW METAL  
AL - ALUMINUM  
S - STEEL  
~~SS - STAINLESS STEEL~~  
STL - STEEL FRAME, 16ga. FULLY WELDED  
~~WWF - WINDOW WALL FRAME~~

**DOOR NOTES**  
1. DOORS SHALL COMPLY WITH C.B.C. SECTION 1010. CLASSROOMS > 1000 S.F. WILL REQUIRE PANIC HARDWARE THAT COMPLIES WITH C.B.C. SECTION 1010.1.10.  
2. PER C.B.C. 1010.1.11: PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.  
3. DOORS THAT ARE CONSIDERED A HAZARDOUS LOCATION SHALL CONTAIN FULLY TEMPERED SAFETY GLAZING & MEET THE FOLLOWING REQUIREMENTS:  
A. PASS THE IMPACT TEST REQUIREMENTS IN ACCORDANCE WITH "CPS 16 CFR PART 1201" PER SECTION 2406.2, WITH A TEST CRITERIA OF CATEGORY II, UNLESS OTHERWISE INDICATED IN C.B.C. TABLE 2406.2(1).  
B. IDENTIFICATION OF SAFETY GLAZING PER C.B.C. 2406.3

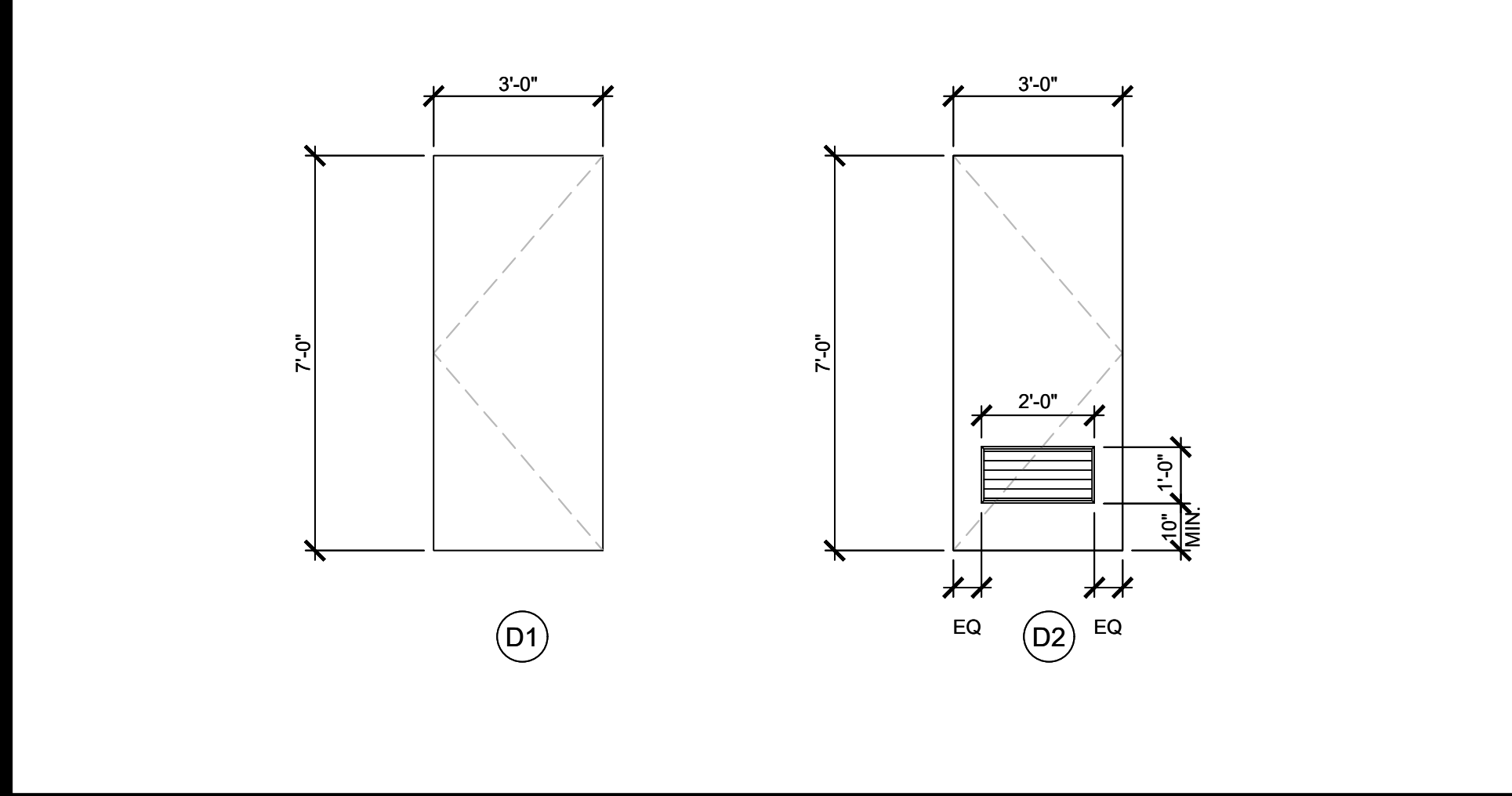
**DOOR NOTES**  
SC - SOLID CORE WOOD  
~~HC - HOLLOW CORE WOOD~~  
PT - PAINTED  
CA - CLEAR ANODIZED  
~~BR - BRONZE ANODIZED~~  
CLR - CLEAR FINISH

WINDOW TYPE	QTY.	FUNCTION	W' WIDTH	H' HEIGHT	FINISH	GLASS TYPE	U FACTOR	SHGC	VT MIN	MIN STC RATING	REMARKS
A	22	OPERABLE	4'-0"	5'-0"	CLEAR ANODIZED	SOLAR GREY	0.780	0.430	0.37	27	MANUAL
B	5	OPERABLE	4'-0"	5'-0"	CLEAR ANODIZED	SOLAR GREY	0.780	0.430	0.37	27	MANUAL W/4" MAXIMUM OPENING LIMIT
C	11	OPERABLE	4'-0"	5'-0"	CLEAR ANODIZED	SOLAR GREY	0.780	0.430	0.37	27	MOTORIZED W/4" MAXIMUM OPENING LIMIT

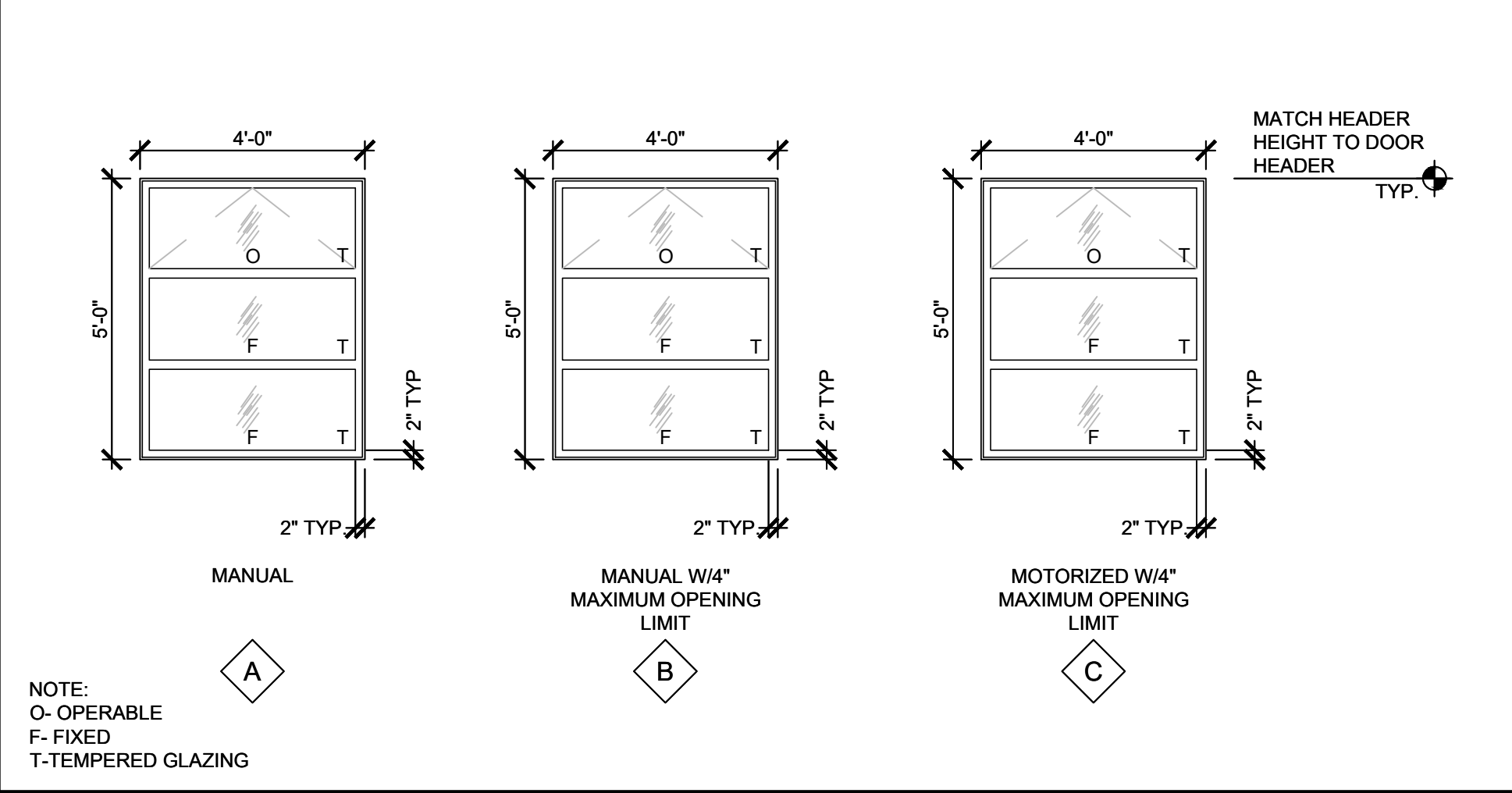
**WINDOW NOTES**  
1. EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS, OR LAMINATED AS 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.  
2. WINDOWS THAT MEETS ALL OF THE FOLLOWING CONDITIONS SPECIFIED IN SECTION 2406.4.3, SHALL BE CONSIDERED A HAZARDOUS LOCATION:  
A. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET.  
B. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE FINISH FLOOR.  
C. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36" ABOVE FINISH FLOOR.  
D. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36", MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING.  
3. WINDOWS THAT ARE CONSIDERED A HAZARDOUS LOCATION SHALL CONTAIN FULLY TEMPERED SAFETY GLAZING & MEET THE FOLLOWING REQUIREMENTS:  
A. PASS THE IMPACT TEST REQUIREMENTS IN ACCORDANCE WITH "CPS 16 CFR PART 1201" PER SECTION 2406.2, WITH A TEST CRITERIA OF CATEGORY II, UNLESS OTHERWISE INDICATED IN C.B.C. TABLE 2406.2(1).  
B. IDENTIFICATION OF SAFETY GLAZING PER C.B.C. 2406.3

ROOM NUMBER	ROOM NAME	FLOOR	FINISHES						REMARKS
			BASE	FRONT	REAR	RIGHT	LEFT	CEILING	
GROUND FLOOR									
TYP	CLASSROOM	C	D	F	F	F	F	K	9'-0"
106	BOYS RESTROOM	N	N	N	N	N	N	M	9'-0"
107	GIRLS RESTROOM	N	N	N	N	N	N	M	9'-0"
108	STAFF RESTROOM	N	N	N	N	N	N	M	9'-0"
109	LOW VOLTAGE	O	D	P	P	P	P	K	9'-0"
UPPER FLOOR									
TYP	CLASSROOM	C	D	F	F	F	F	K	9'-0"
206	WORKROOM	C	D	F	F	F	F	K	9'-0"
208	JANITOR ROOM	N	N	J	J	J	J	M	9'-0"

**DOOR SCHEDULE**



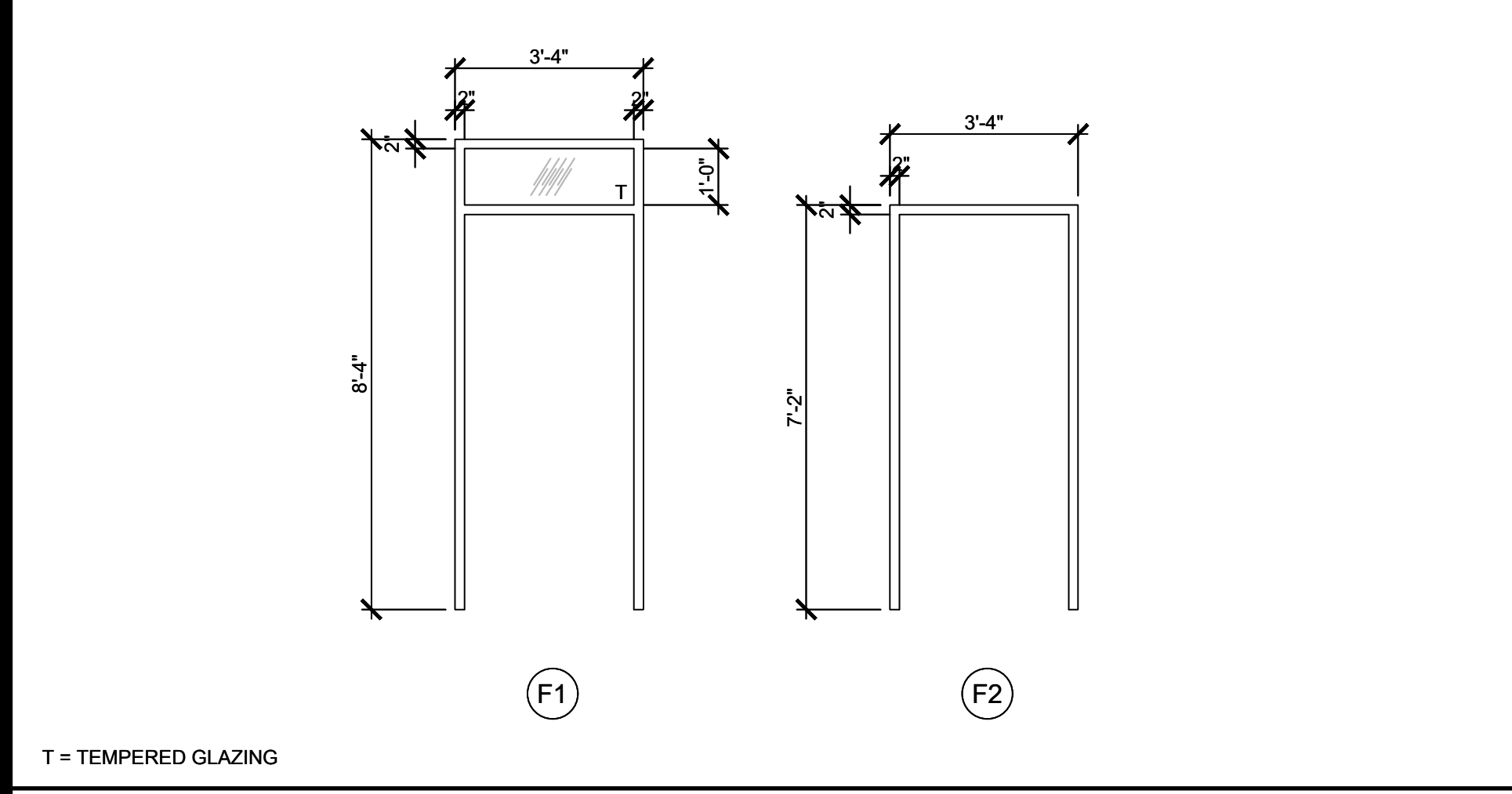
**WINDOW SCHEDULE**



**FINISH INDICATOR OPTIONS**

- ~~A - CARPET, PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4000~~
- ~~B - VINYL SHEET FLOORING, 0.0 MIN. C.B.F. PER ASTM D 2047~~
- C - VCT; ARMSTRONG, STANDARD, OR EXCELON.
- D - TOP SET BASE; 4"
- ~~E - TOP SET BASE; 6"~~
- F - WALL FINISH; 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING
- ~~G - 1/2" W.R. GYP BOARD, TAPE, PAINTED FINISH~~
- ~~H - 1/2" GYP BOARD, TAPE, PAINTED FINISH~~
- J - 3/32" F.R.P.; OVER 1/2" W.R. GYP BOARD
- K - ACOUSTICAL LAY-IN GRID CEILING PANELS; 2'x4'
- ~~L - 1/2" VINYL TACKBOARD, CLASS 1, OVER 5/8" TYPE 'X' GYP BOARD BACKING~~
- M - 5/8" TYPE 'X' GYP BOARD; TAPE, TEXTURE, PAINTED FINISH
- N - CERAMIC TILE - (FULL HEIGHT AT WALLS)
- O - EXPOSED CONCRETE WITH CONCRETE SEALER
- P - 3/4" FIRE RATED PLYWOOD

**DOOR TYPES**



**WINDOW TYPES**

NOT USED

**ROOM FINISHES SCHEDULE**

NOT USED

**DOOR FRAME TYPES**

A	EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND95RD
B	EXTERIOR DOOR LOCKSET SCHLAGE B561RD w/ADA COMPLIANT PUSH/PULL PLATE
C	EXTERIOR DOOR LOCKSET SCHLAGE B561RD w/ND44 LOCK
D	EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND80PD
E	EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND85PD
F	INTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND50PD
G	INTERIOR CLASSROOM COPPER CREEK 6260 CLASSROOM w/ADA LEVER

**EXTERIOR DOOR HARDWARE**  
1. HINGES: HAGER 4-1/2x4-1/2 BUTTS, BB1279 US26D, 1-1/2 PAIR PER DOOR, WITH SET SCREW IN BARREL AND BALL BEARING DESIGN.  
2. CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL. (5 LBS. MAX. PRESSURE)  
3. WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA W5007 OR EQUAL, AT DOOR JAMBS AND HEAD.  
4. THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.  
5. LOCKDOWN: INTERIOR TEACHERS' MANUAL LOCK FOR CAMPUS LOCK DOWN CRITERIA - REQUIRED FOR STATE-FUNDED SCHOOLS, PER EDUCATION CODE SECTION 17075.50 (AND ALSO CBC 1010.1.11); PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.

\*ADDITIONAL DOORS MAY BE REQUIRED BASED ON BUILDING LAYOUT.

**NOT USED**

NOT USED

**NOT USED**

NOT USED

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**SET NAME**  
(2) 72'x40' 2 STORY  
CLASSROOM BUILDINGS

**SITE SPECIFIC PROJECT NAME**  
GLENDALE USD  
GLENOAKS  
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD ON PC

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

**REVISIONS**


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20

**SCHEDULES**  
DOORS, WINDOWS  
& FINISHES

**SHEET NUMBER:**  
N3.0

BID SET 10/01/2021



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ELEMENTARY SCHOOL**

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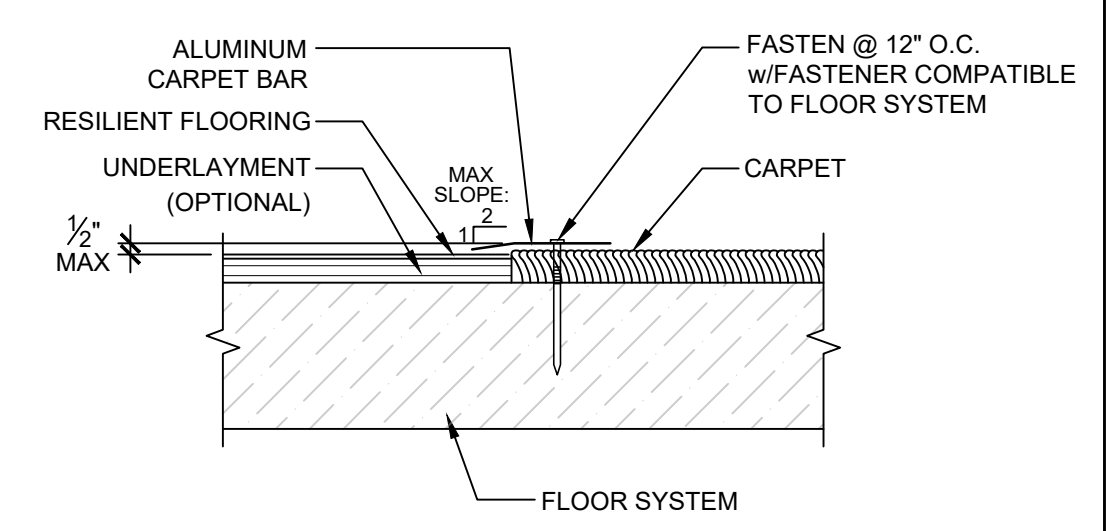
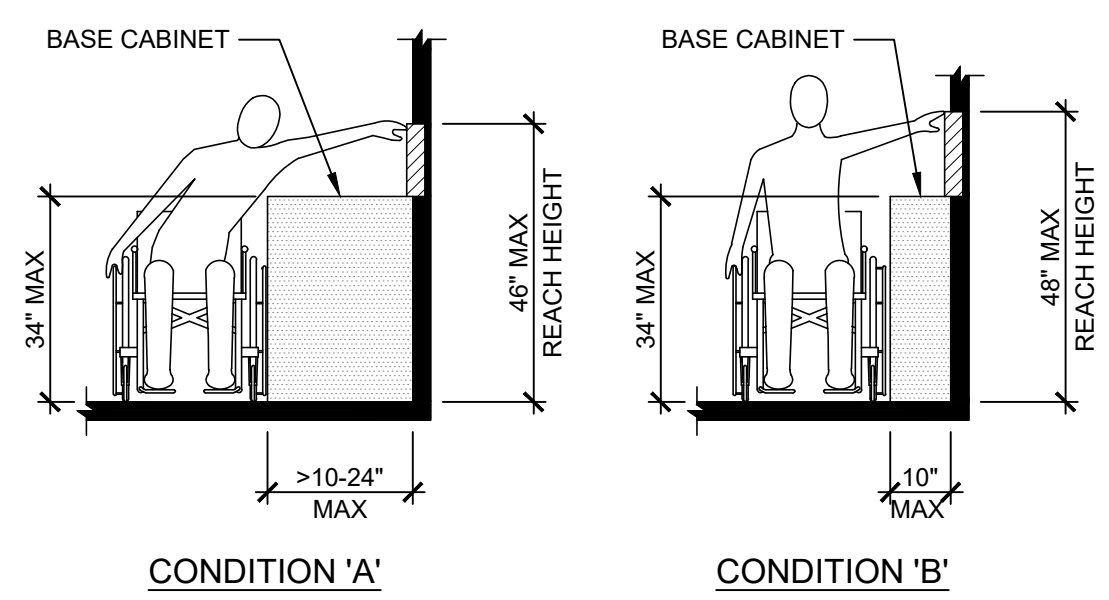
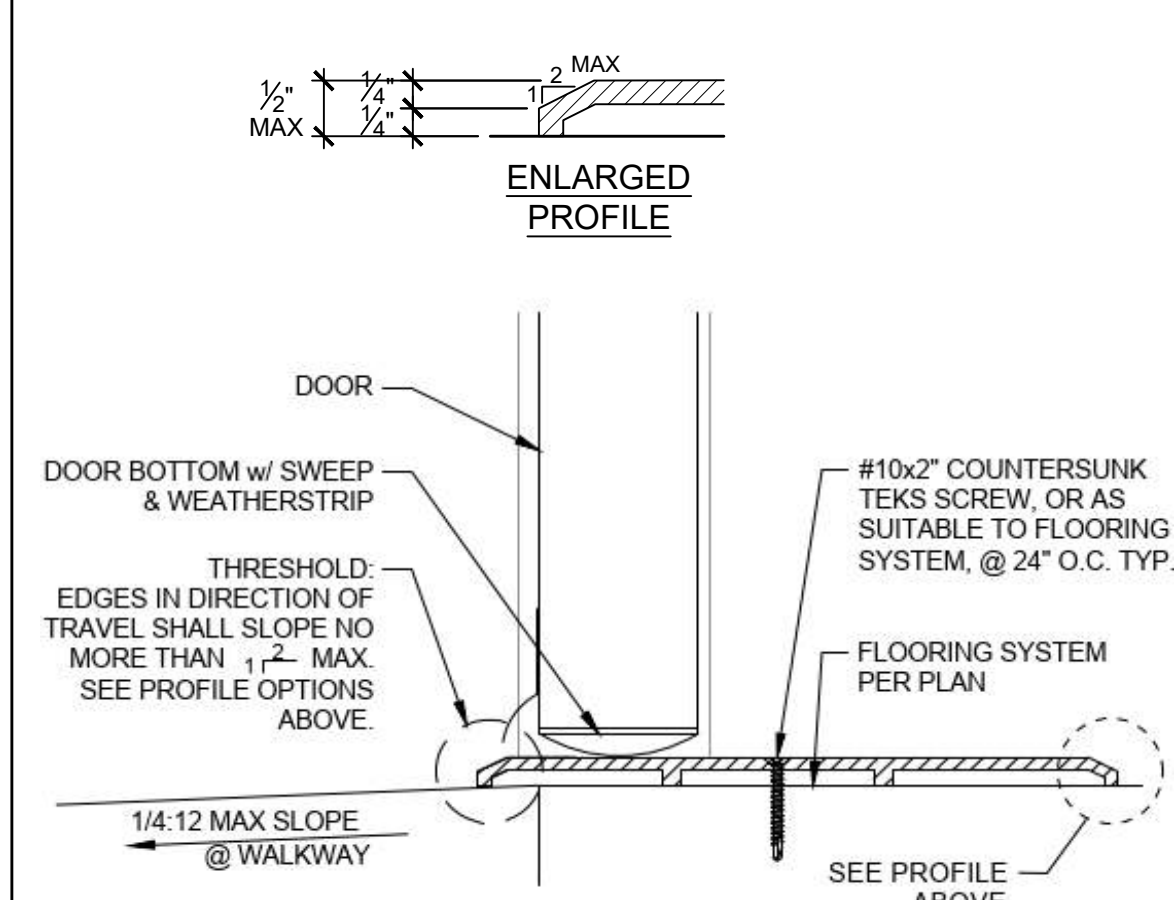
REVISIONS


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20

SHEET TITLE:  
**ACCESSIBILITY STANDARDS & DETAILS**

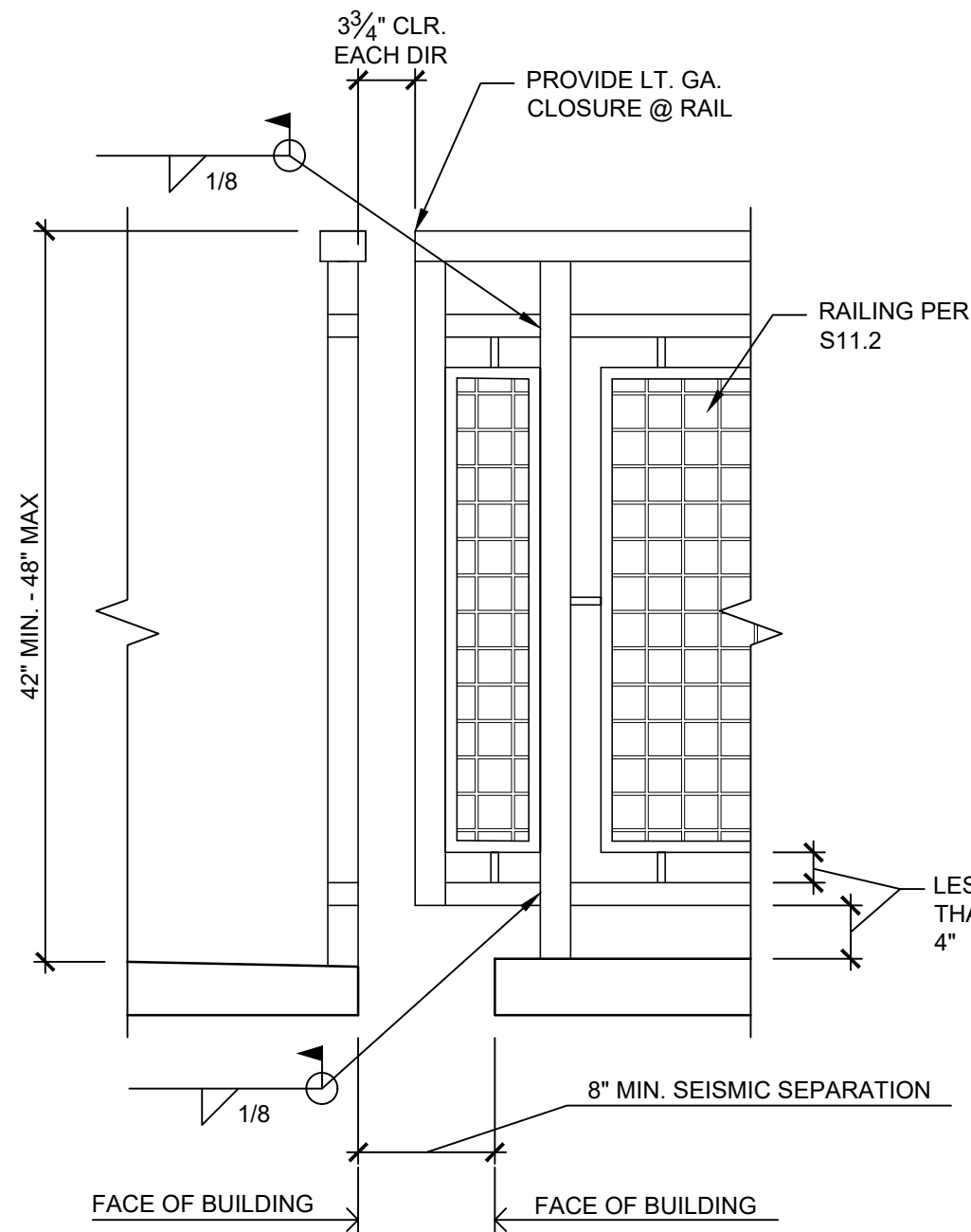
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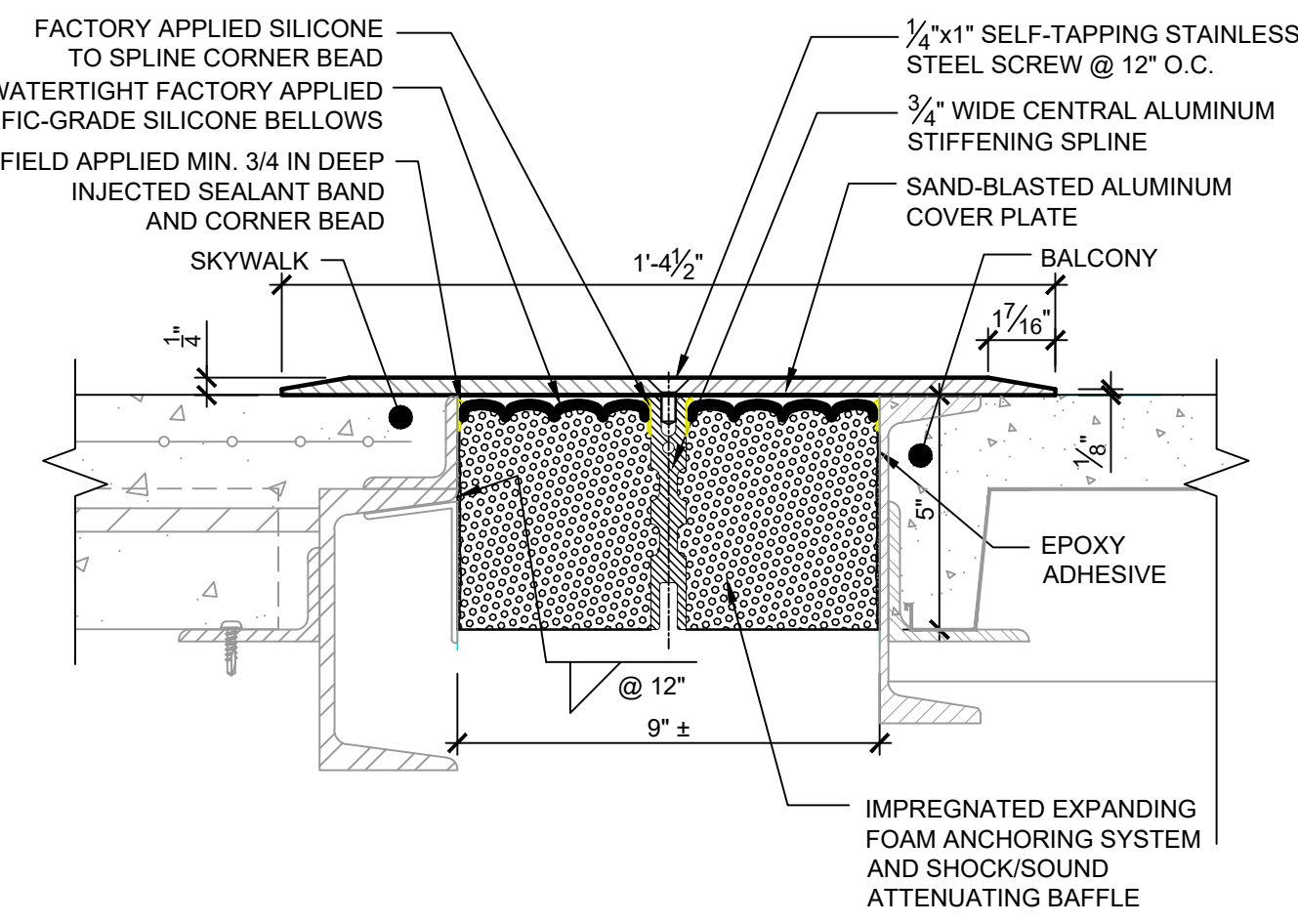


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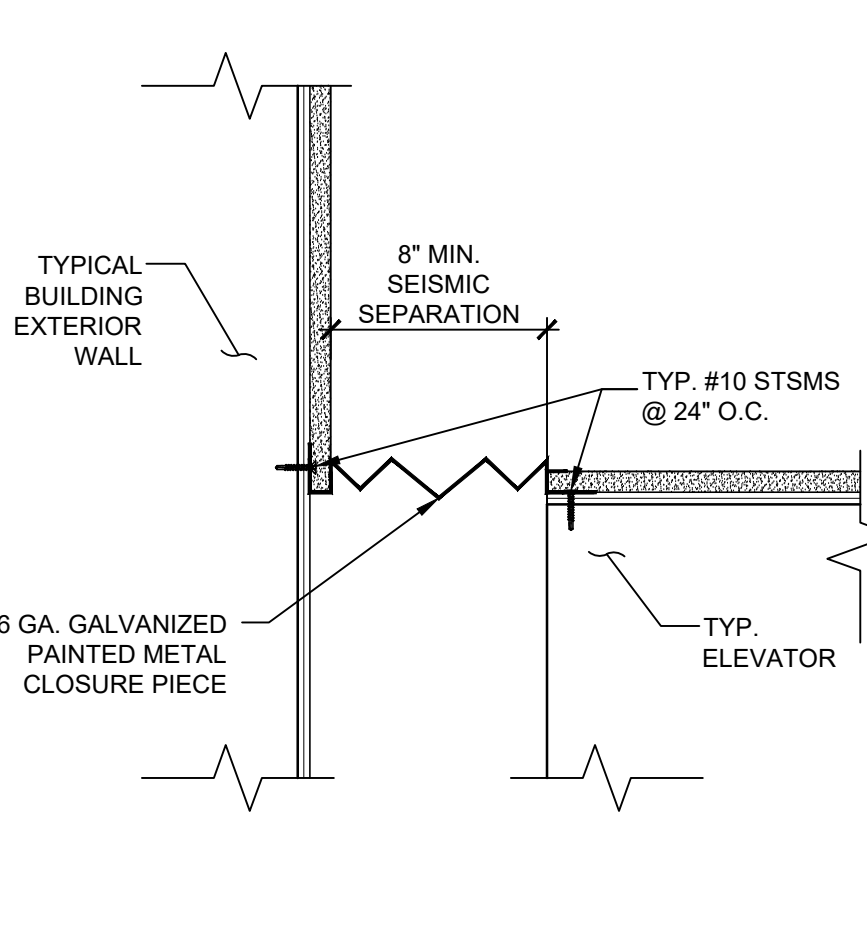




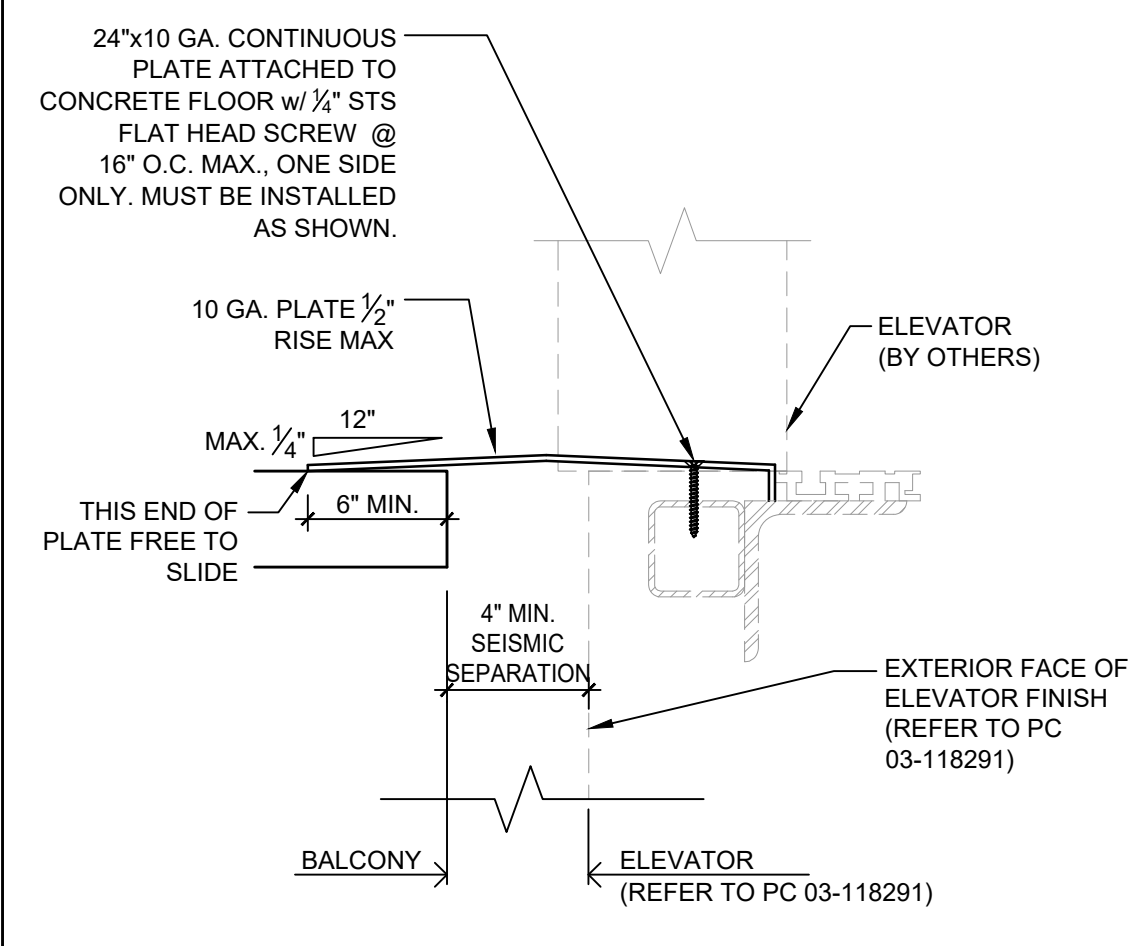
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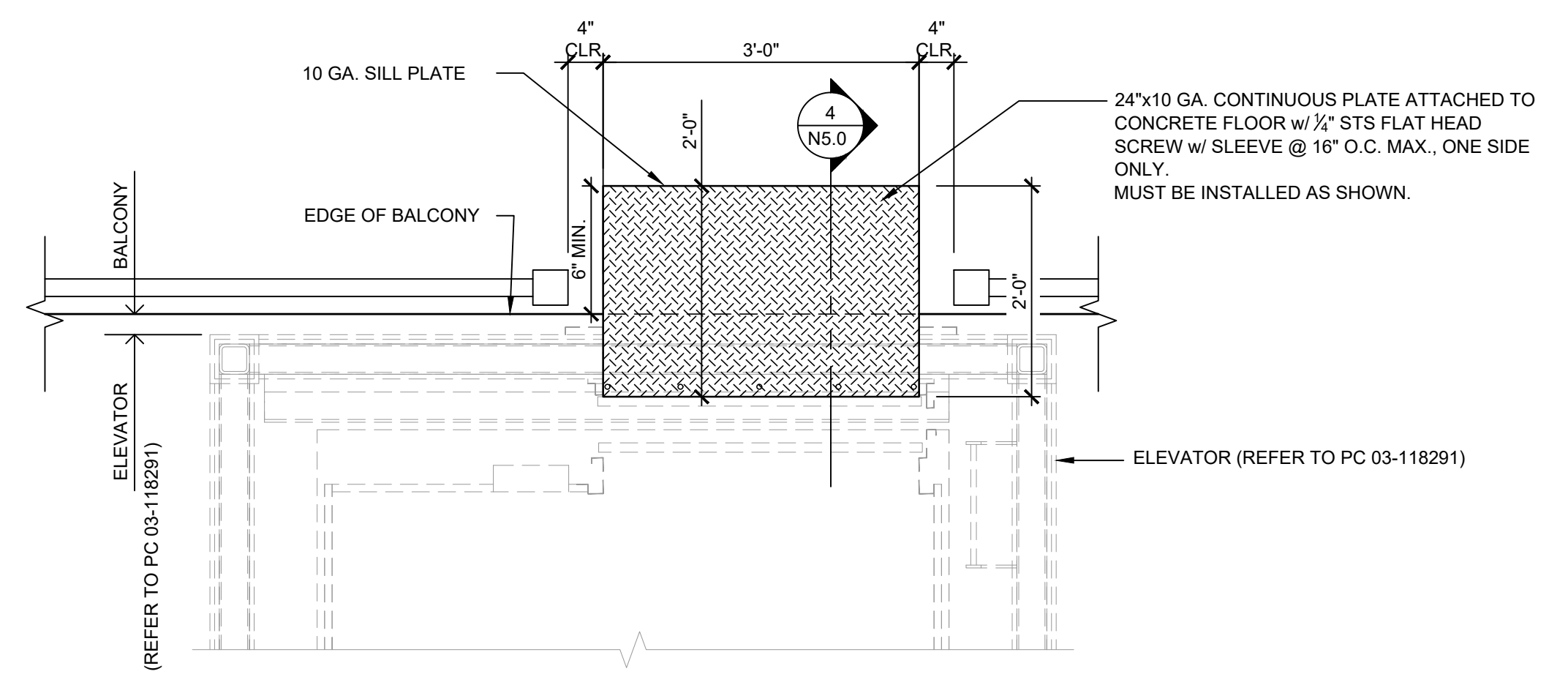
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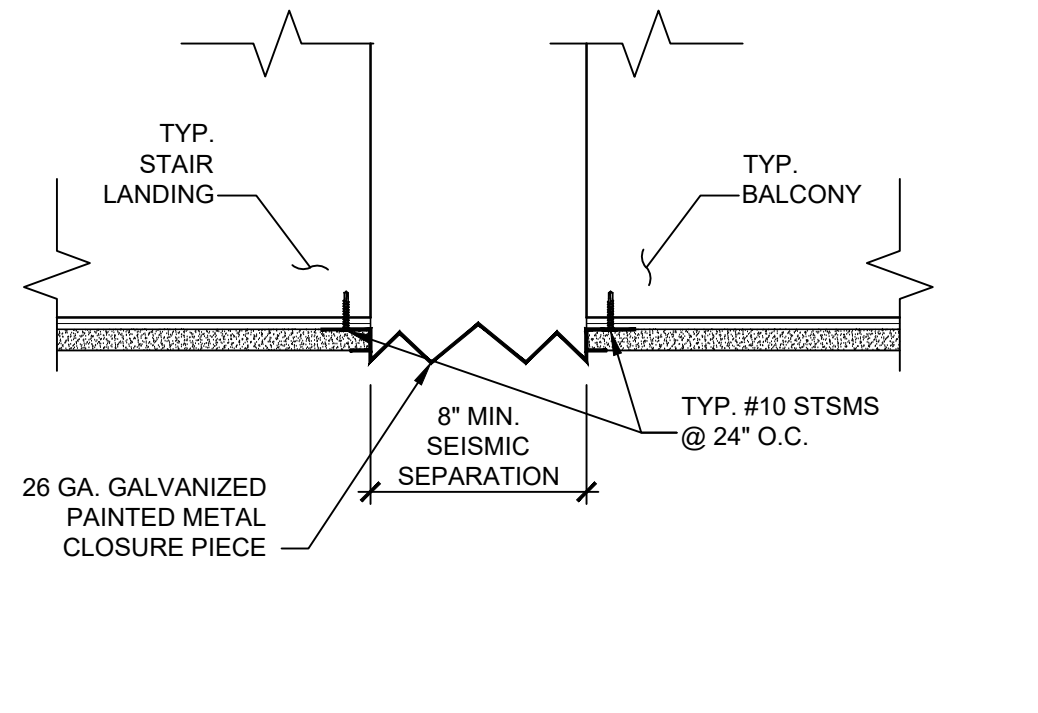
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ENLARGED VIEW OF PLATE DETAIL @ SEPARATION SCALE: 3/16\"/>

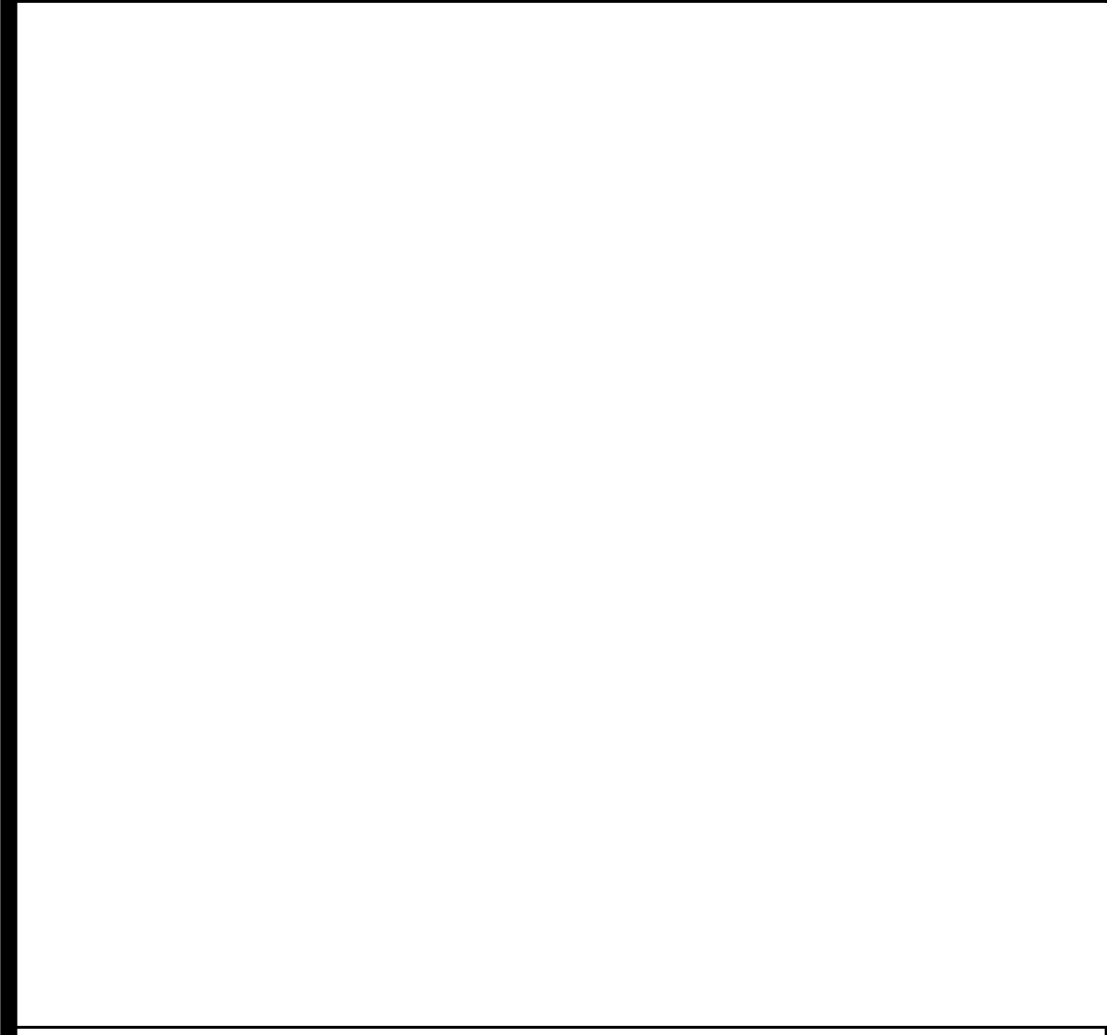


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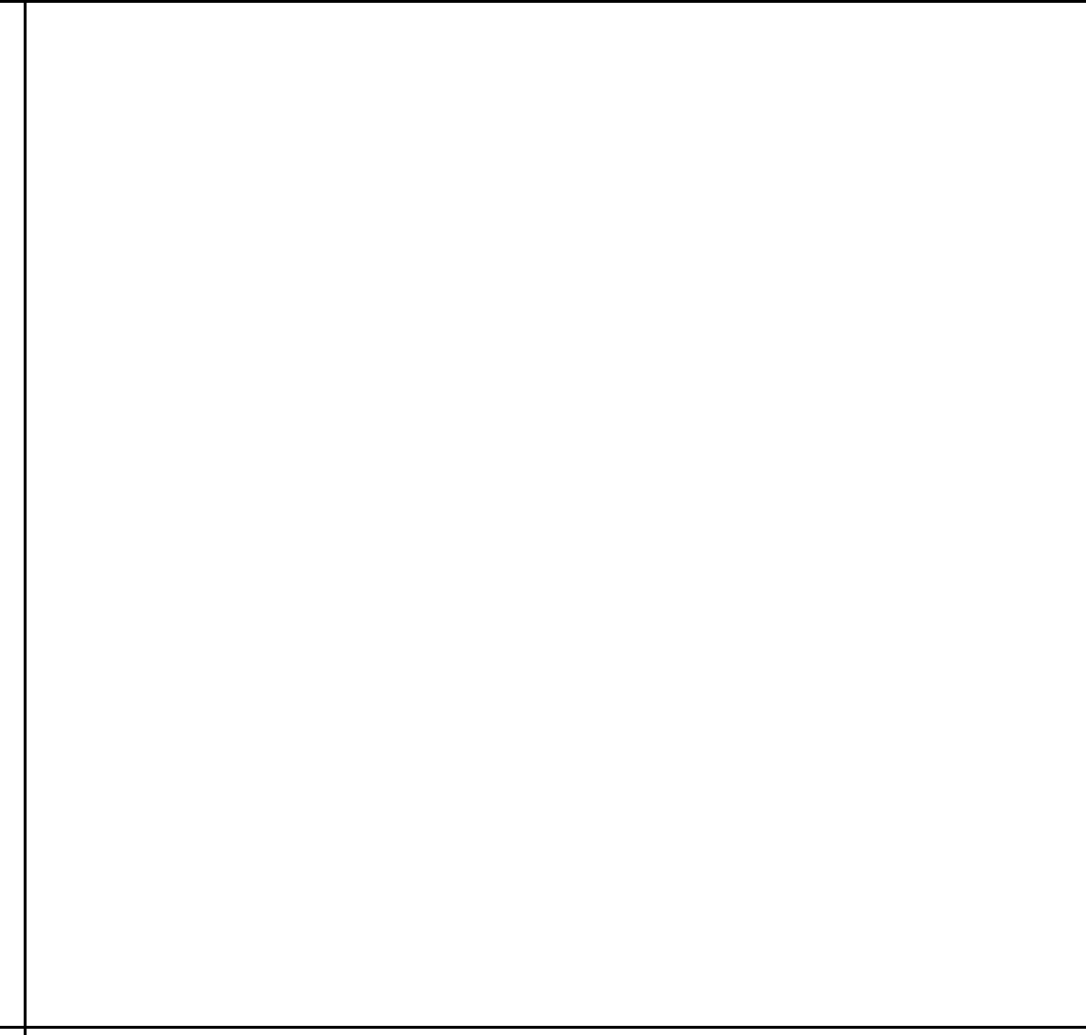


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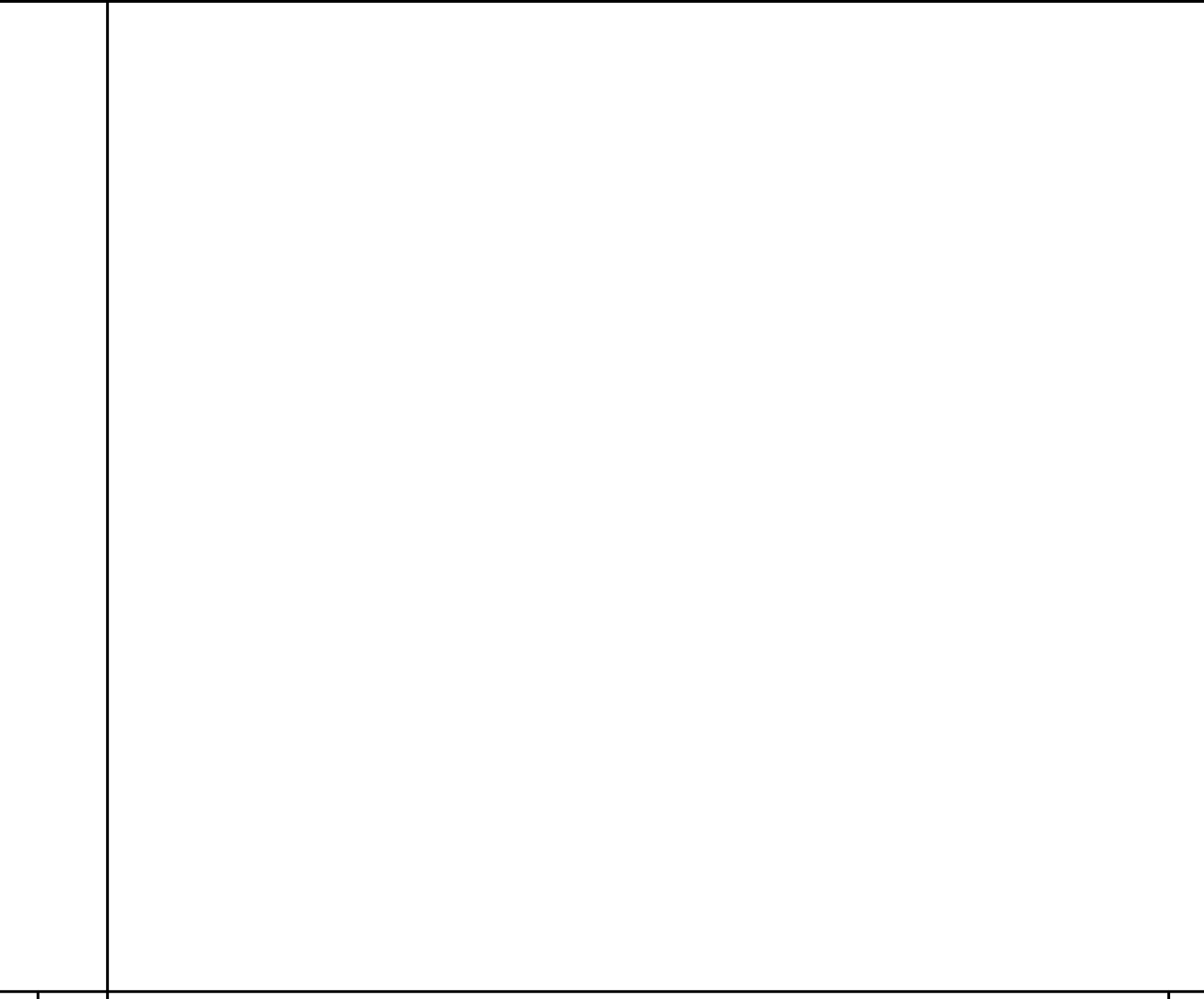
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DETAILS @ ELEVATOR SEPARATION SCALE: 3/4\"/>



DETAIL @ STAIR LANDING SCALE: 1 1/2\"/>



NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD ON PC

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REVISIONS  
DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20  
SHEET TITLE:  
**BUILDING SEPARATION DETAILS**

SHEET NUMBER:  
**N5.0**

BID SET 10/01/2021











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- 1 (2) 8'-0"x4'-0" MARKERBOARDS
- 2 NOT USED
- 3 TYPICAL MOD LINE
- 4 SEMI-RECESSED FIRE EXTINGUISHER, TOP OF HANDLE @ +48" AFF. 4" MAX PROTRUSION FROM WALL IF FIRE EXTINGUISHER IS ABOVE 27" A.F.F.
- 5 TACTILE EXIT SIGN (BY OTHERS) PER DETAIL ON PAGE T-1 OF ARCHITECTS PLANS
- 6 NOT USED
- 7 ROOM SIGNAGE AND ISA (BY OTHERS) PER DETAIL ON PAGE T-1 OF ARCHITECTS PLANS
- 8 STAIRS - REFER TO SHEET S11.0 FOR DETAILS
- 9 VCT FLOORING
- 10 NOT USED
- 11 ELEVATOR PER PC 03-118201
- 12 WINDOW SUNSHADE
- 13 OCCUPANT LOAD SIGN (BY OTHERS) PER DETAIL ON PAGE T-1 OF ARCHITECTS PLANS
- 14 DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.O.N.) PER DETAIL 10/A5.1
- 15 MINI-SPLIT HVAC CONDENSER
- 16 HOSE BIB
- 17 ELECTRICAL PANEL
- 18 FLOOR LIVE LOAD SIGN PER 2019 CBC SECTION 106.1 (BY OTHERS) PER DETAIL ON PAGE T-1 OF ARCHITECTS PLANS
- 19 WALK OFF MAT AT ENTRY AREA
- 20 THERMOSTAT - TOP OF BOX @ 46" A.F.F.
- 21 CASEWORK W/ SINK
- 22 CASEWORK
- 23 EXTERIOR NANAWALL
- 24 EXTERIOR FIRE RISER - SEE FIRE SPRINKLER PLANS
- 25 ACCESS PANEL DOOR

**KEY NOTES**

- 1. REFER TO SHEET S9.1 FOR WALL ATTACHMENTS
- SITE NOTE**  
 3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

**SHEET NOTES**

- X# = MECHANICAL OR PLUMBING FIXTURE - SEE MECHANICAL OR PLUMBING DRAWINGS
- X = KEY NOTE - SEE KEY NOTES ABOVE
- X = DOOR TYPE - SEE SCHEDULE, SHEET N3.0
- X = WINDOW TYPE - SEE SCHEDULE, SHEET N3.0
- X = DOOR HARDWARE - SEE HARDWARE SCHEDULE, SHEET N3.0

- 2X4 METAL STUD WALL
- 2X6 METAL STUD WALL
- 2X8 METAL STUD WALL
- 2X10 METAL STUD WALL

**SYMBOLS LEGEND**

- 3. IN THE EVENT THAT A CLASSROOM IS DESIGNED TO CONNECT TO ANOTHER CLASSROOM OR RESTROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR/CEILING SHALL MEET THE MINIMUM REQUIREMENT OF A STC OF 40, PER CALGREEN CODE SECTION 507.4.3. (EXAMPLES OF QUALIFYING ASSEMBLIES SHOWN BELOW).
- 
- (2) LAYER 5/8" GYPSUM BOARD  
 SECURED TO MIN. 2 1/2" METAL STUDS @ 24" O.C. MAX. W/ 3/4" THK BATT INSULATION
- STC=48  
 TEST REF.: AUDIO ALLOY L.L.C TEST NUMBER OL-92-410
- 4. MINIMUM WINDOW & DOOR RATINGS:  
 ALL WINDOWS AND DOORS SPECIFIED ON THE SCHEDULES FOUND ON SHEET N3.0 OF THIS PACKAGE SHALL MEET A MINIMUM STC RATING OF 27.

**SET NAME**

(2) 72'x40' 2 STORY CLASSROOM BUILDINGS

**SITE SPECIFIC PROJECT NAME**

GLENDALE USD  
 GLENOAKS  
 ELEMENTARY SCHOOL

**MANUFACTURER PROFESSIONAL OF RECORD**

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

**REVISIONS**

NO.	DESCRIPTION

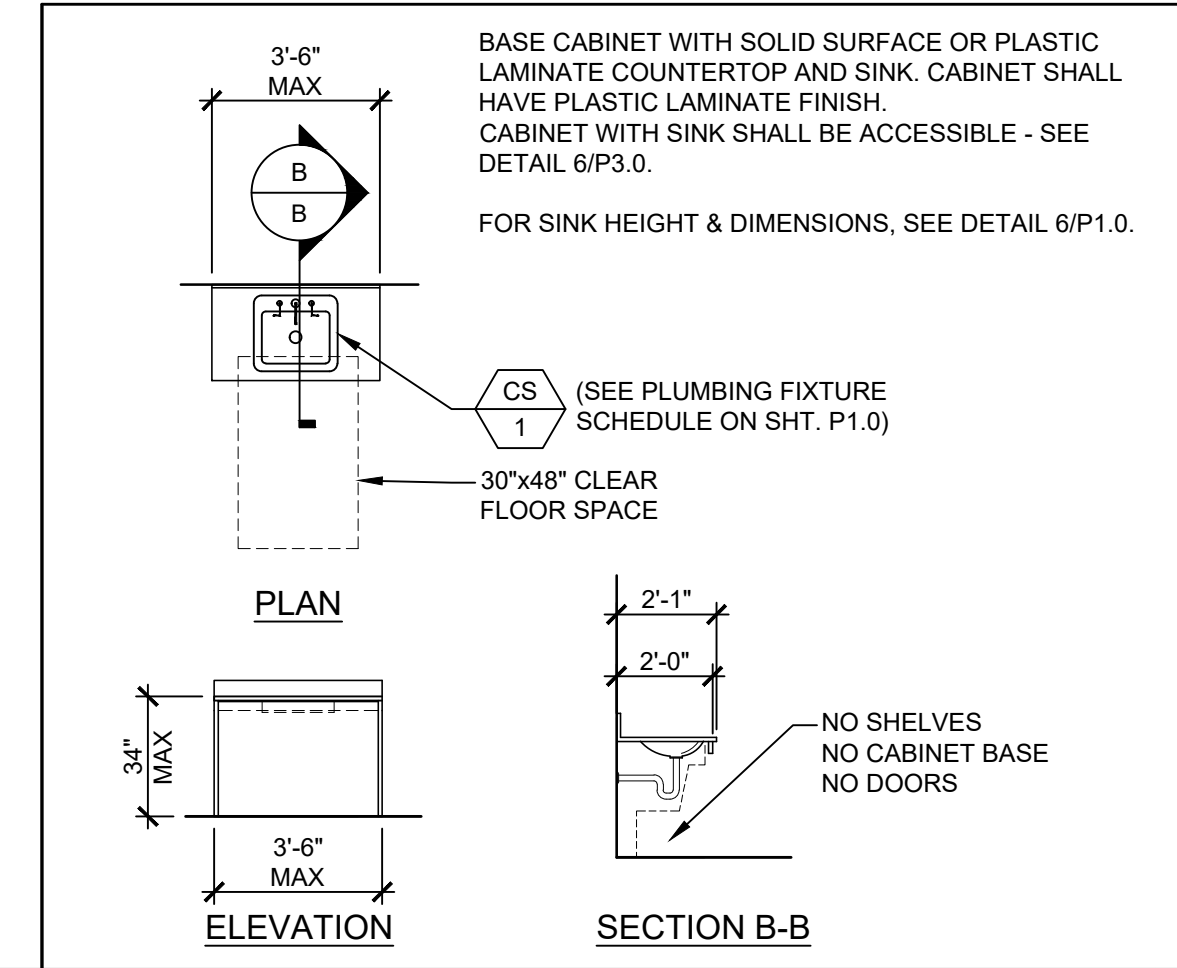
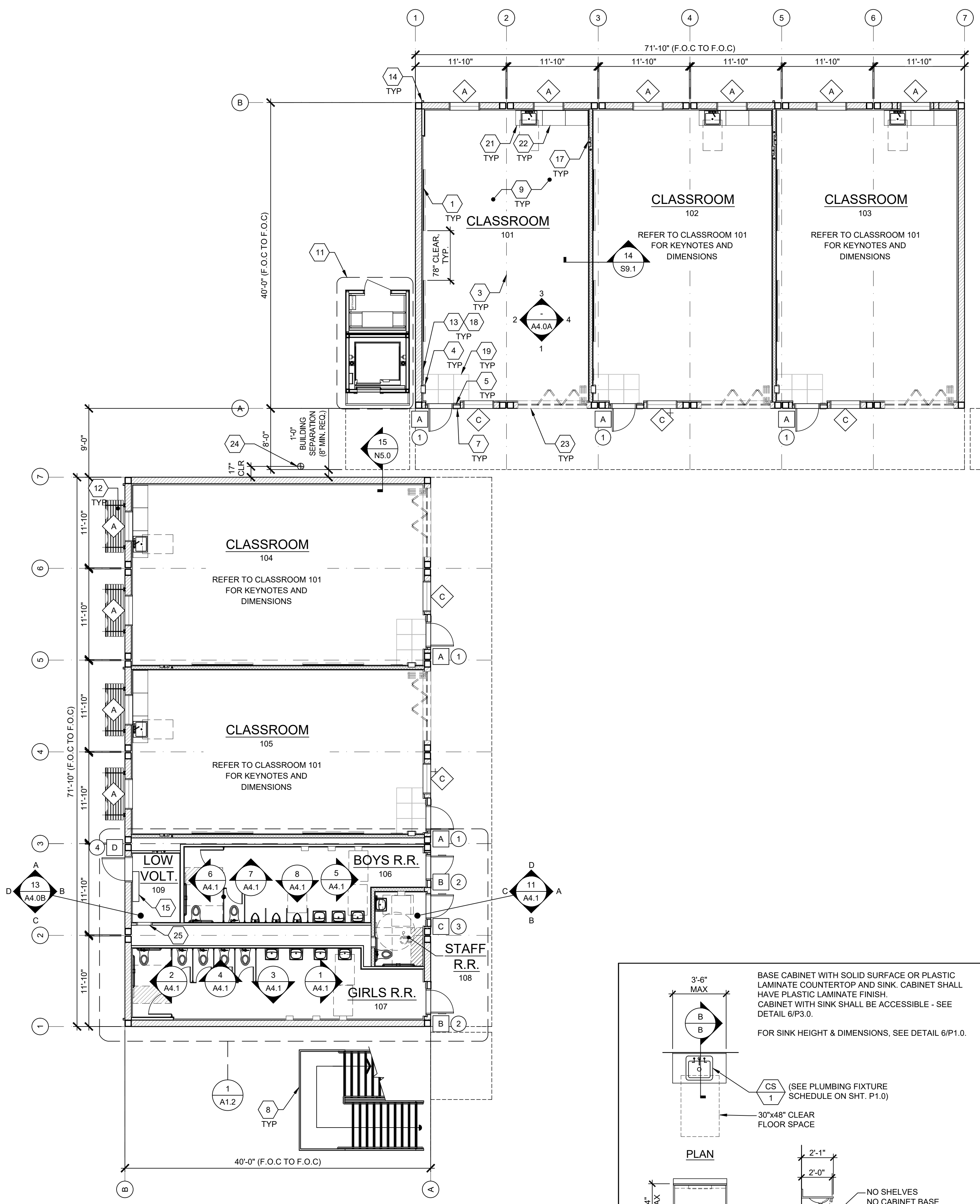
DRAWN BY: AH  
 SCALE: AS NOTED  
 DATE: 08/10/21  
 PROJECT NO: 1613-20

**SHEET TITLE:**

GROUND FLOOR PLAN

**SHEET NUMBER:**

A1.0



**ACOUSTIC CONTROLS**

- 1. WHEN THE BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES SHALL COMPLY WITH THE CALGREEN CODE, SECTION 5.507.4, FOR THE SPECIFIC SITE LOCATION.
- 2. MINIMUM WALL ASSEMBLIES:  
 WALL ASSEMBLIES SHALL BE CONSTRUCTED PER DETAIL SHEETS A5.1 WITH STEEL STUDS PER LISTED OPTIONS.  
 MINIMUM STC RATINGS LISTED BELOW ARE PER THE CATALOG OF STC & IIC RATINGS FOR WALL AND FLOOR/CEILING ASSEMBLIES, PRODUCED BY THE OFFICE OF NOISE CONTROL, CA DEPARTMENT OF HEALTH SERVICES.

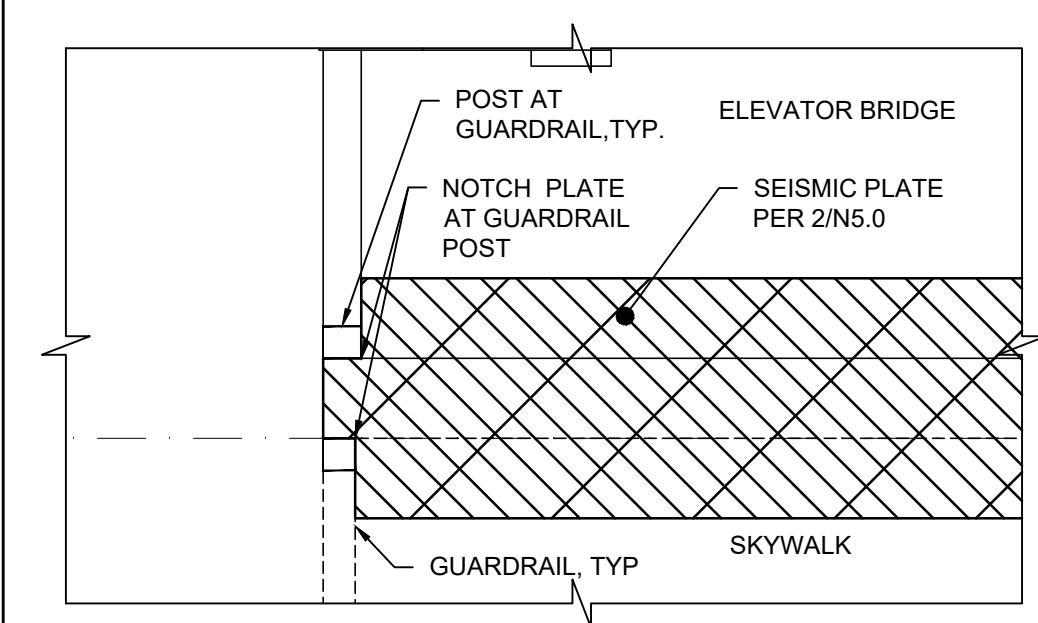
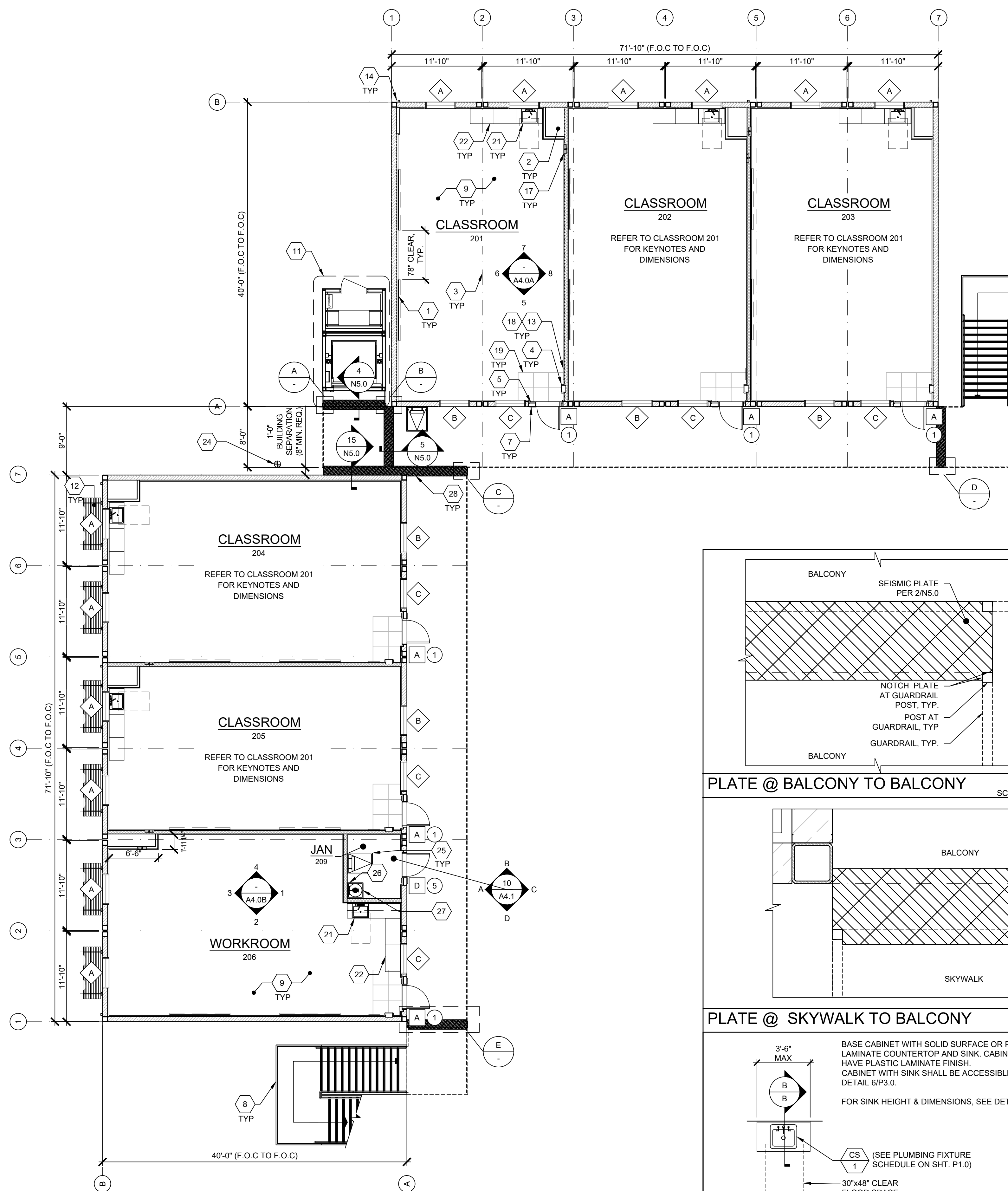


PLATE @ ELEVATOR BRIDGE TO SKYWALK  
SCALE 1"= 1'-0"

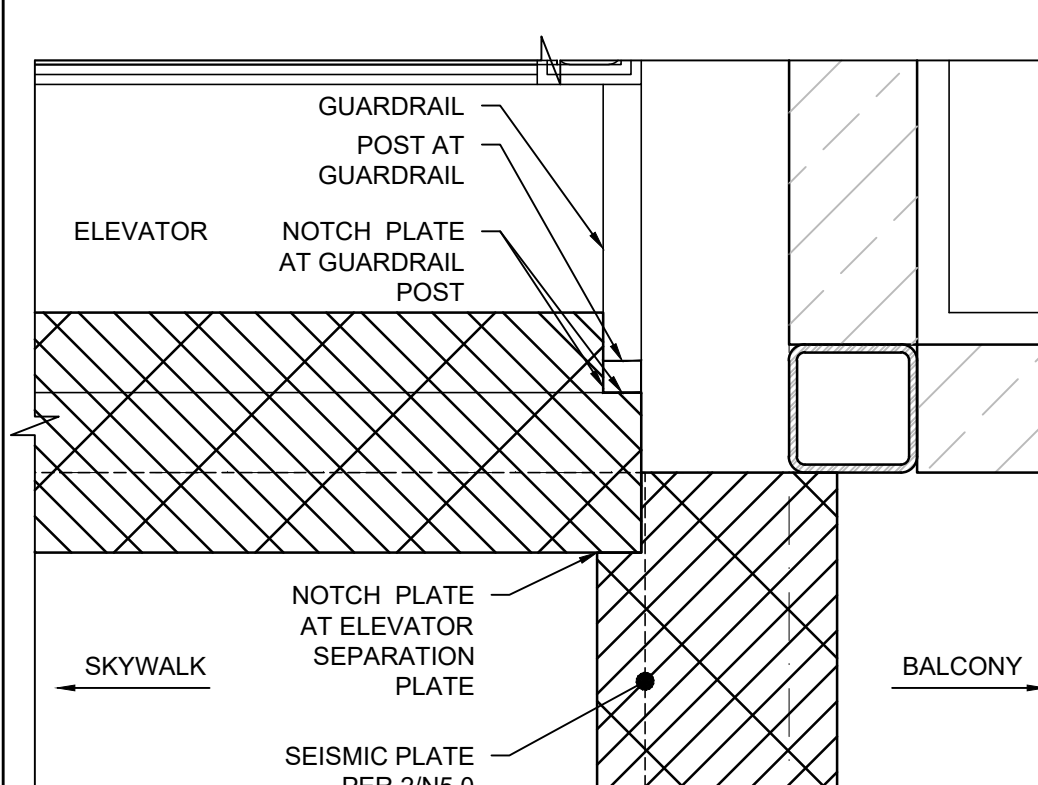


PLATE @ ELEVATOR BRIDGE PLATE  
SCALE 1"= 1'-0"

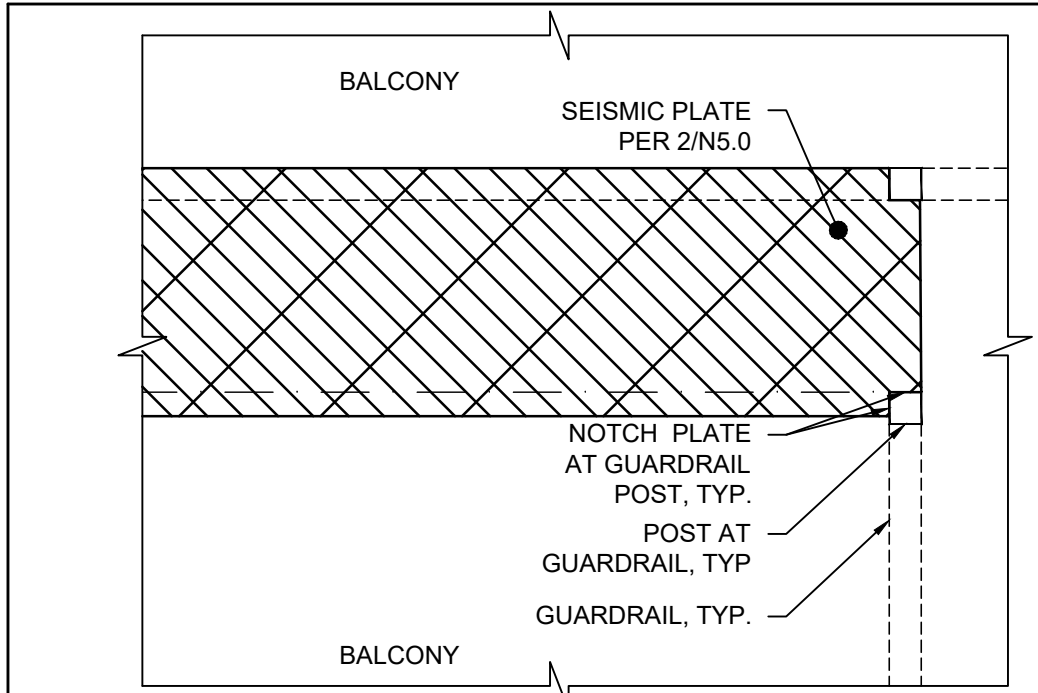


PLATE @ BALCONY TO BALCONY  
SCALE 1"= 1'-0"

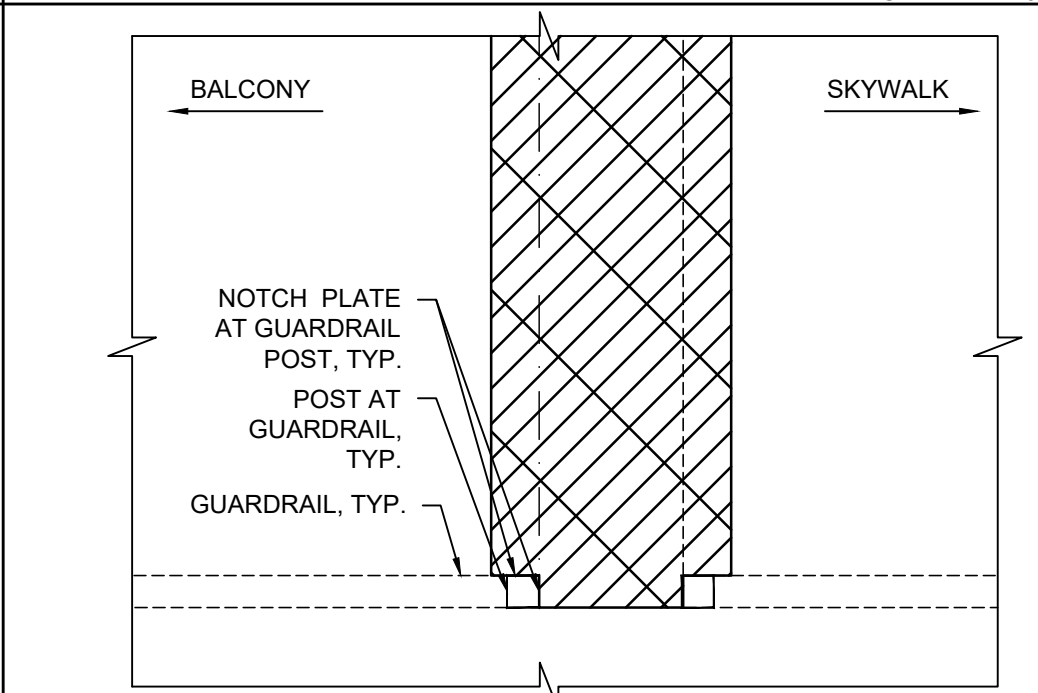


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SCALE 1"= 1'-0"

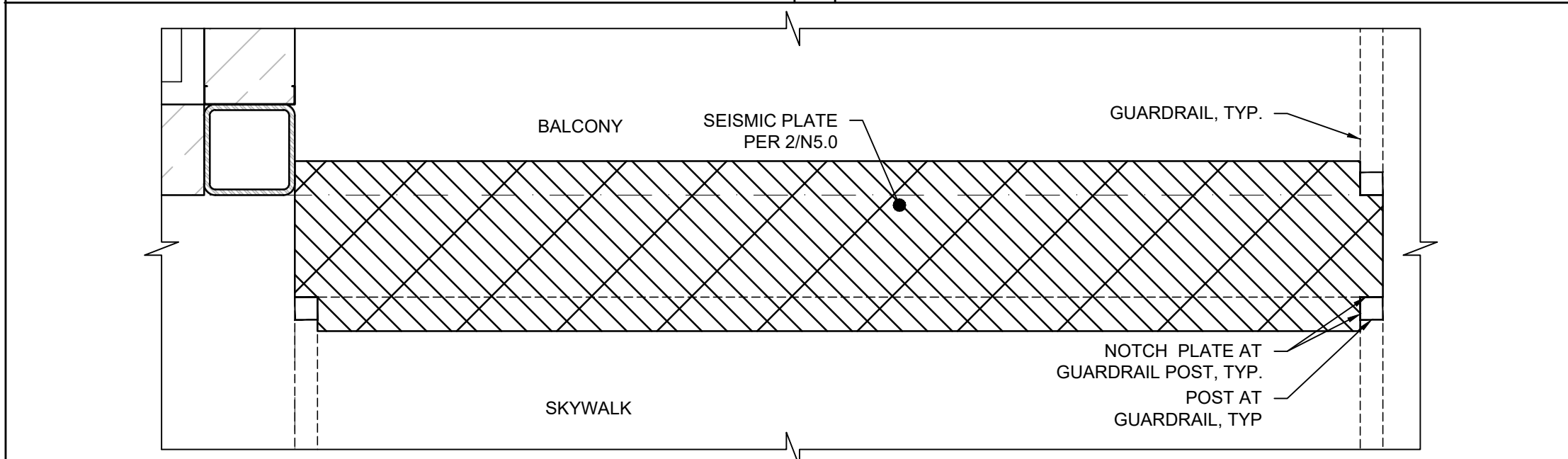
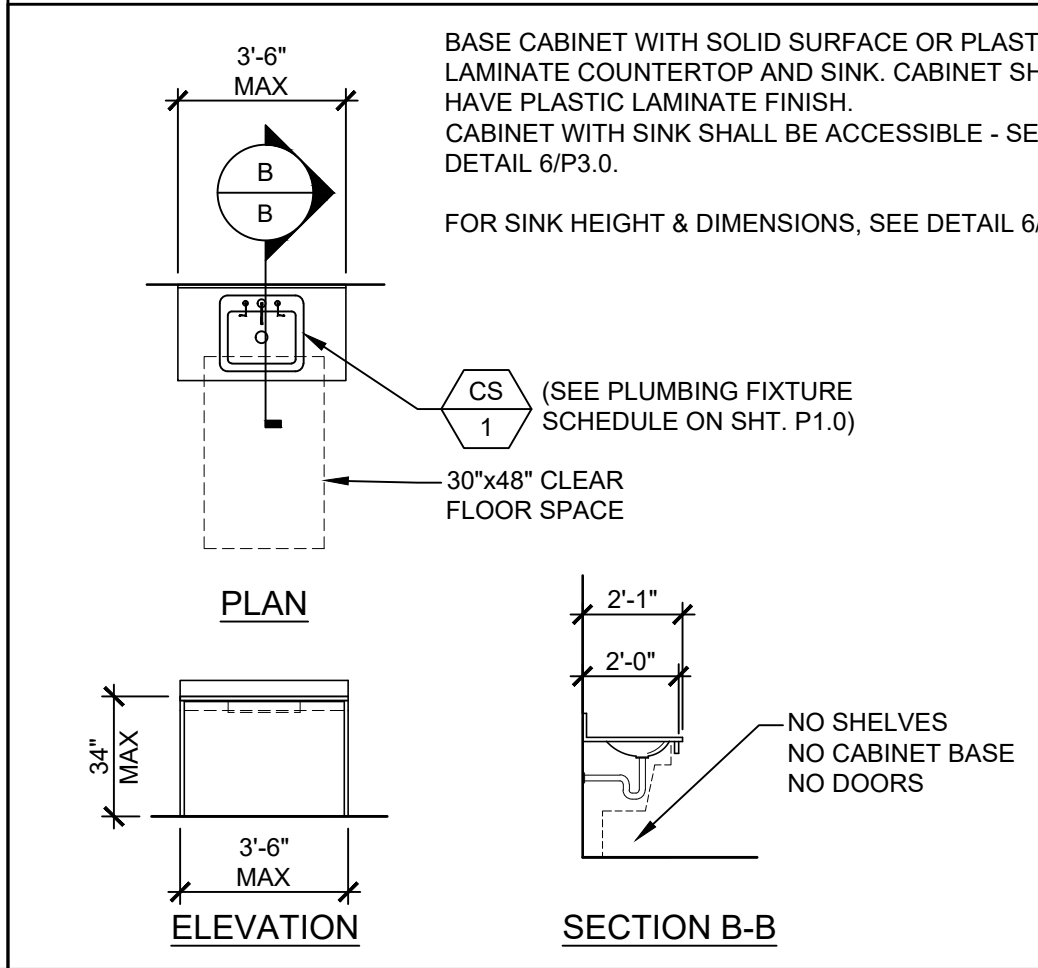
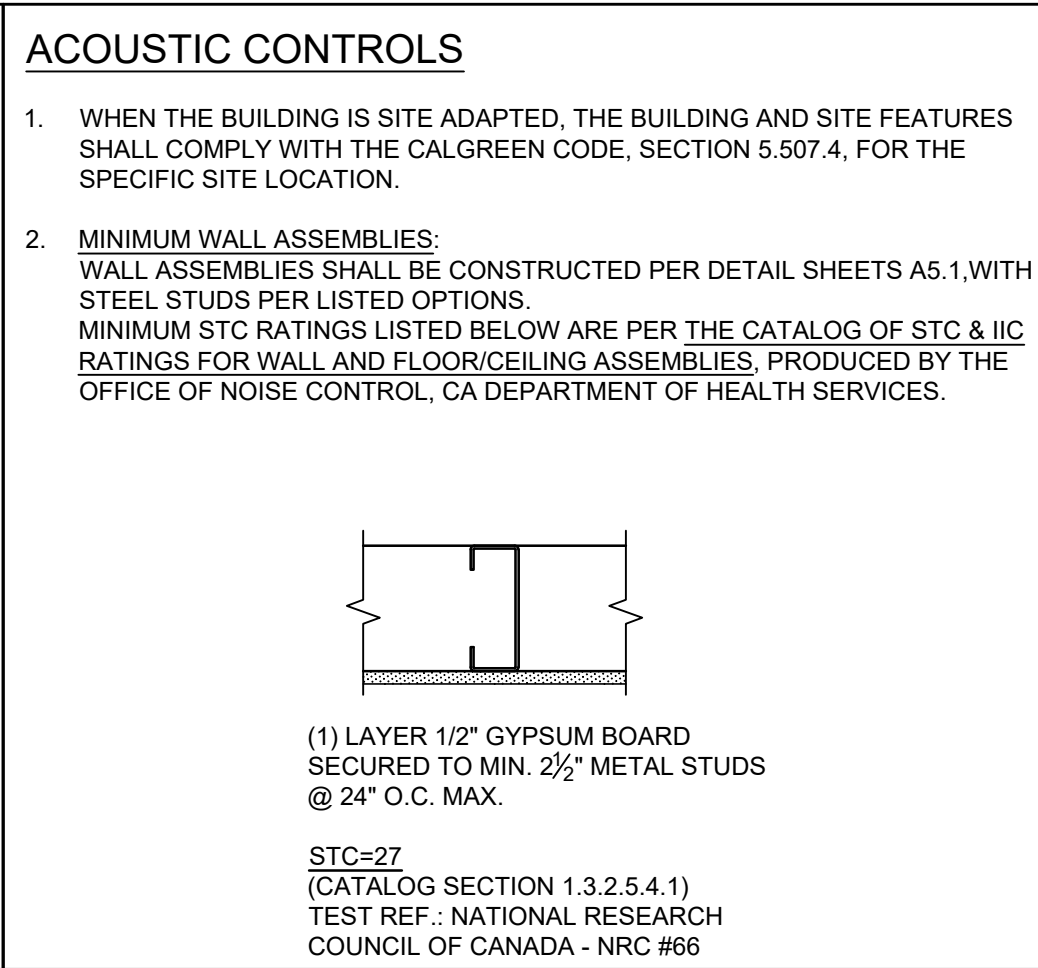


PLATE @ SKYWALK TO BALCONY  
SCALE 1"= 1'-0"



1 CLASSROOM SINK - DETAIL  
SCALE: 1/8" = 1'-0"



2 ACOUSTIC NOTES  
SCALE: 1/8" = 1'-0"

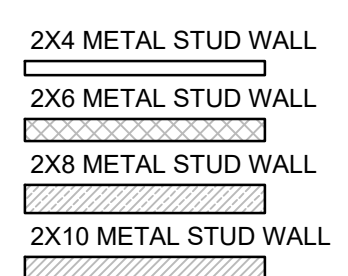
- 1 (1) 8'-0"x4'-0" MARKERBOARDS
- 2 MECHANICAL CHASE- REFER TO DETAIL A/AB.2 FOR WALL BRACING TO ROOF
- 3 TYPICAL MOD LINE
- 4 SEMI-RECESSED FIRE EXTINGUISHER. TOP OF HANDLE @ +48" AFF. 4" MAX PROTRUSION FROM WALL IF FIRE EXTINGUISHER IS ABOVE 27" A.F.F.
- 5 TACTILE EXIT SIGN (BY OTHERS) PER DETAIL ON PAGE T-1 OF ARCHITECTS PLANS
- 6 NOT USED
- 7 ROOM SIGNAGE AND ISA (BY OTHERS) PER DETAIL ON PAGE T-1 OF ARCHITECTS PLANS
- 8 STAIRS - REFER TO SHEET S11.0 FOR DETAILS
- 9 VCT FLOORING
- 10 NOT USED
- 11 ELEVATOR PER PC 03-118201
- 12 WINDOW SHADE
- 13 OCCUPANT LOAD SIGN (BY OTHERS) PER DETAIL ON PAGE T-1 OF ARCHITECTS PLANS
- 14 DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.O.N.) PER DETAIL 10/A5.1
- 15 NOT USED
- 16 NOT USED
- 17 ELECTRICAL PANEL
- 18 FLOOR LIVE LOAD SIGN PER 2019 CBC SECTION 106.1 (BY OTHERS) PER DETAIL ON PAGE T-1 OF ARCHITECTS PLANS
- 19 WALK OFF MAT AT ENTRY AREA
- 20 THERMOSTAT - TOP OF BOX @ 46" A.F.F.
- 21 CASEWORK W/ SINK
- 22 CASEWORK
- 23 NOT USED
- 24 EXTERIOR FIRE RISER- SEE FIRE SPRINKLER PLANS
- 25 ROOF ACCESS HATCH AND LADDER- REFER TO SHEET A2.0
- 26 JANITORS SINK
- 27 WATER HEATER
- 28 THRESHOLD

KEY NOTES

1. REFER TO SHEET S9.1 FOR WALL ATTACHMENTS
- SITE NOTE**
- 3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

SHEET NOTES

- X# = MECHANICAL OR PLUMBING FIXTURE - SEE MECHANICAL OR PLUMBING DRAWINGS
- X = KEY NOTE - SEE KEY NOTES ABOVE
- X = DOOR TYPE - SEE SCHEDULE, SHEET N3.0
- X = WINDOW TYPE - SEE SCHEDULE, SHEET N3.0
- X = DOOR HARDWARE - SEE HARDWARE SCHEDULE, SHEET N3.0



SYMBOLS LEGEND

3. IN THE EVENT THAT A CLASSROOM IS DESIGNED TO CONNECT TO ANOTHER CLASSROOM OR RESTROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR/CEILING SHALL MEET THE MINIMUM REQUIREMENT OF A STC OF 40, PER CALGREEN CODE SECTION 507.4.3. (EXAMPLES OF QUALIFYING ASSEMBLIES SHOWN BELOW).
- 
- (2) LAYER 5/8" GYPSUM BOARD SECURED TO MIN. 2 1/2" METAL STUDS @ 24" O.C. MAX. W/3/2" THK BATT INSULATION
- STC=48  
TEST REF.: AUDIO ALLOY L.L.C TEST NUMBER OL-92-410
4. MINIMUM WINDOW & DOOR RATINGS:  
ALL WINDOWS AND DOORS SPECIFIED ON THE SCHEDULES FOUND ON SHEET N3.0 OF THIS PACKAGE SHALL MEET A MINIMUM STC RATING OF 27.

**AMS**  
American Modular Systems

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Phone (209) 825-1921  
Fax (209) 825-7018  
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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD  
**Patricia Canino**  
LICENSED ARCHITECT  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

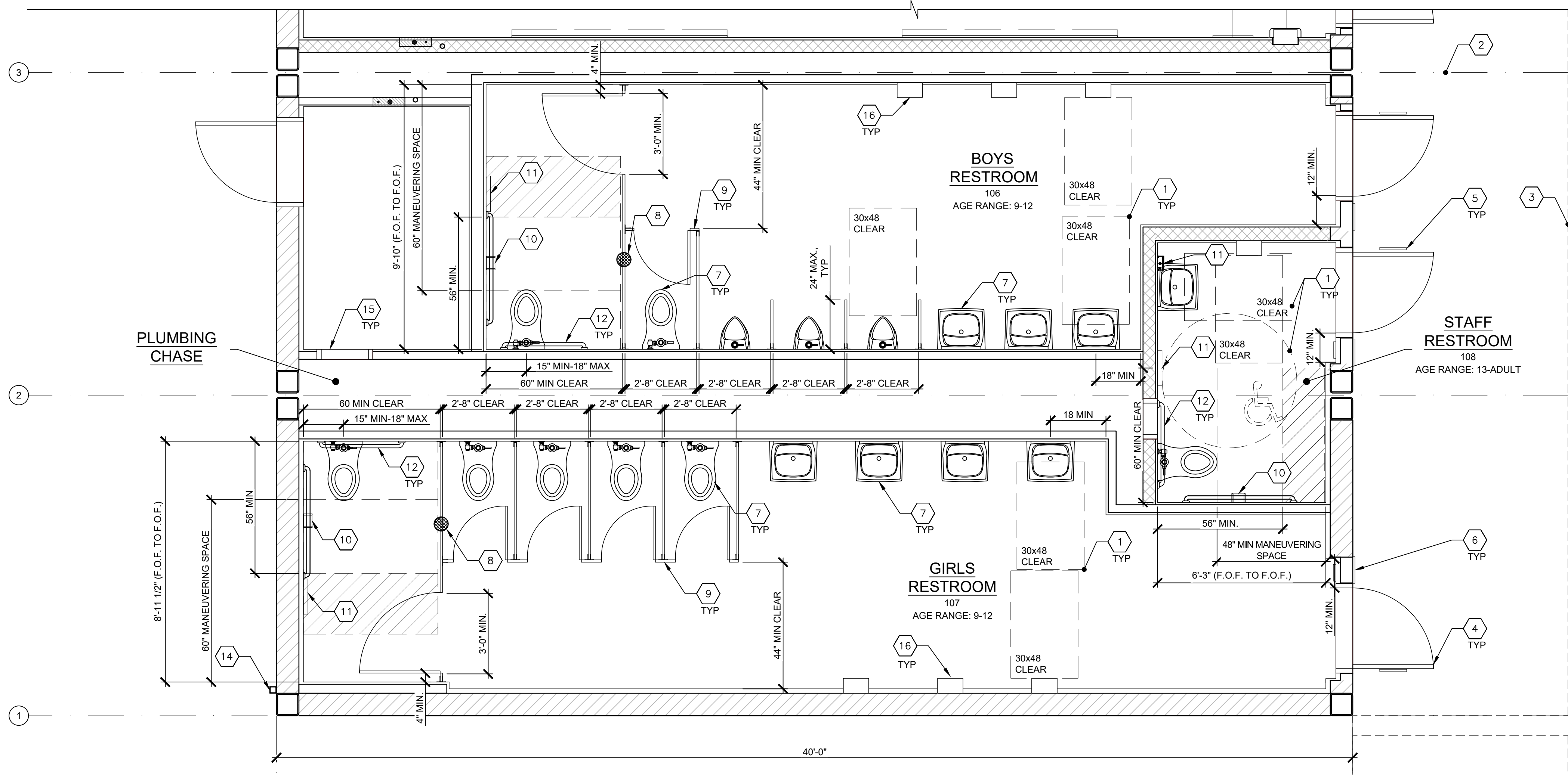
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REVISIONS

DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 08/10/21  
PROJECT NO: 1613-20  
SHEET TITLE:  
**UPPER FLOOR PLAN**  
SHEET NUMBER:

**A1.1**





- 1 CLEAR FLOOR SPACE AREA
- 2 TYP. MOD LINE
- 3 OVERHANG PER PLAN
- 4 DOOR PER SCHEDULE ON SHEET N3.0, TYP.
- 5 RESTROOM SIGNAGE (BY OTHERS) PER DETAILS 1-10, SHEET N4.0
- 6 ROOM AND ISA SIGNAGE (BY OTHERS) PER DETAILS 5&9/N4.0
- 7 PLUMBING FIXTURE PER P1.0
- 8 FLOOR DRAIN (LOCATION MAY VARY) - PER P1.0  
1:48 FLOOR SLOPE MAX.
- 9 TOILET PARTITIONS (ACCURATE, SOLID PLASTIC, OR EQUAL)
- 10 TOILET TISSUE DISPENSER (BOBRICK MODEL B6977)
- 11 TOILET SEAT COVER DISPENSER (BY DISTRICT)
- 12 GRAB BARS - SEE 6/A7.2
- 13 INSTANTHOT WATER HEATER
- 14 DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.N.O.)
- 15 ACCESS PANEL DOOR
- 16 HAND DRYER

**AMS**  
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**SET NAME**  
  
(2) 72'x40' 2 STORY  
CLASSROOM BUILDINGS

**SITE SPECIFIC PROJECT NAME**  
GLENDALE USD  
GLENOAKS  
ELEMENTARY SCHOOL

**MANUFACTURER PROFESSIONAL OF RECORD**

1. DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS NOTED OTHERWISE (i.e. F.O.C., etc.)
2. REFER TO SCHEDULE 7/P3.0 FOR ACCESSIBLE HEIGHTS AT TOILETS.
3. REFER TO DETAILS 4 & 5/A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
4. SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
5. PIPING MATERIAL
  - a. WATER: COPPER TYPE "L", 95/5 SOLDER.
  - b. WASTE DRAIN AND VENT: ABS.

**PLUMBING NOTE**  
MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.

**SITE NOTE**  
3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

**ENLARGED RESTROOM PLAN**

SCALE: 3/8"=1'-0"

**GENERAL NOTES**

- 1 = KEY NOTE - SEE KEY NOTES, THIS SHEET
- X = DOOR TYPE - SEE SCHEDULE SHEET N3.0
- X = DOOR HARDWARE - SEE HARDWARE SCHEDULE SHEET N3.0
- X = WINDOW TYPE - SEE SCHEDULE SHEET N3.0
- 60" = 60" DIAMETER CLEAR FLOOR TURNING SPACE
- 1 = CLEAR FLOOR SPACE

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**REVISIONS**

NO.	DESCRIPTION

DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 10/01/21  
PROJECT NO: 1613-20

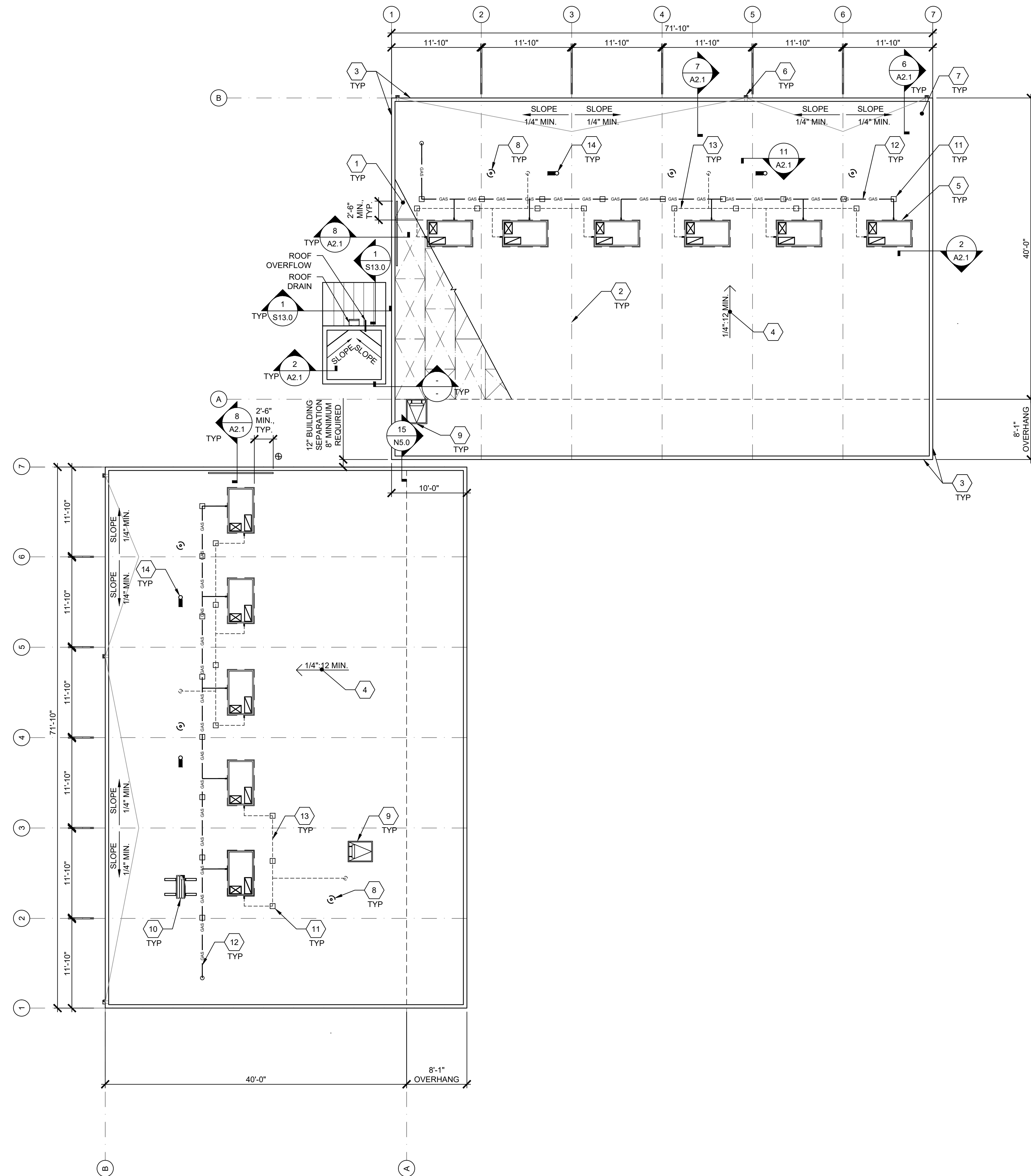
SHEET TITLE:  
**ENLARGED RESTROOM PLAN**

SHEET NUMBER:  
**A1.2**

NOT USED	3 NOT USED	4 NOT USED	5 NOT USED	6
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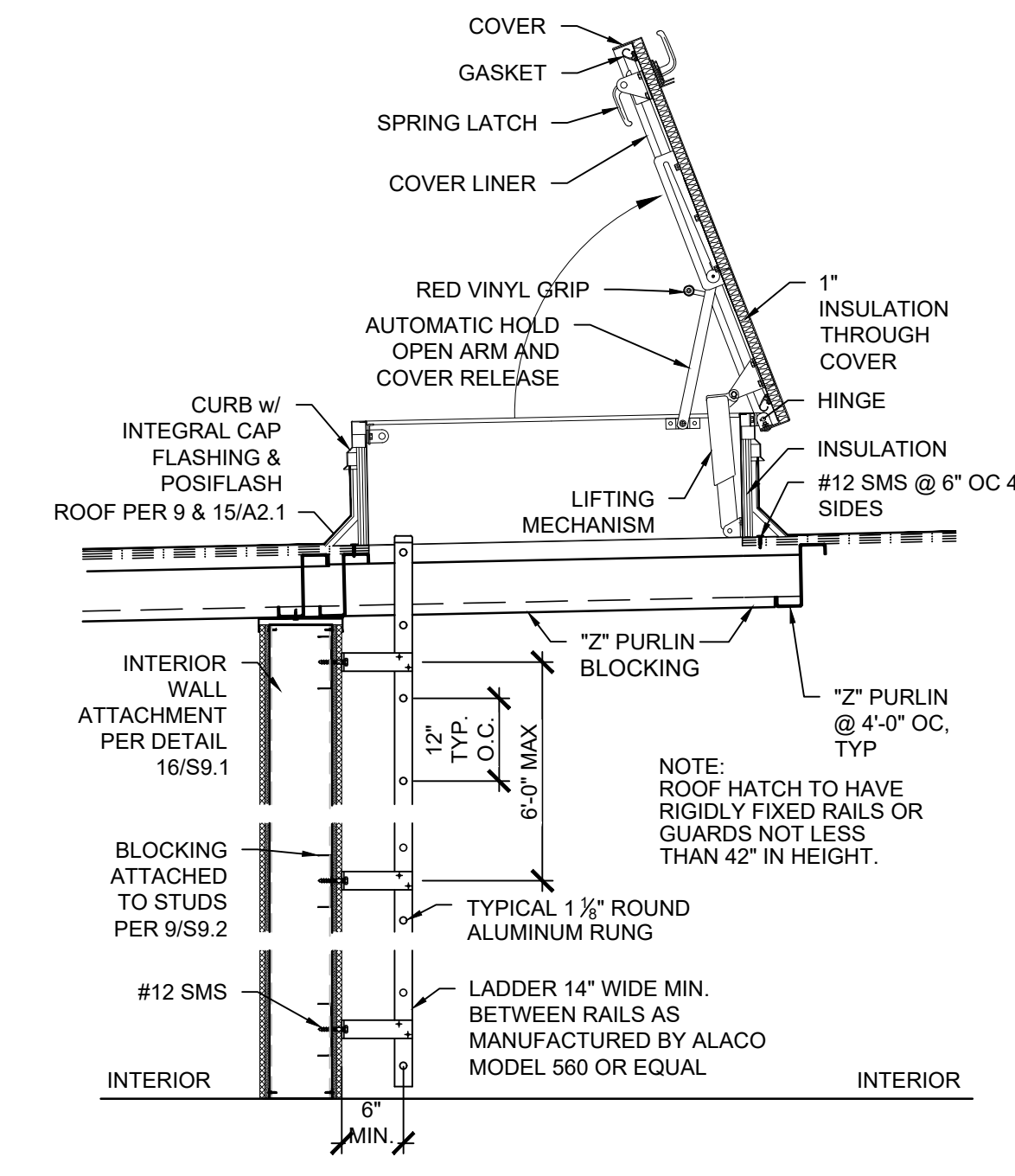
**SHEET NOTES**

**BID SET 10/01/2021**

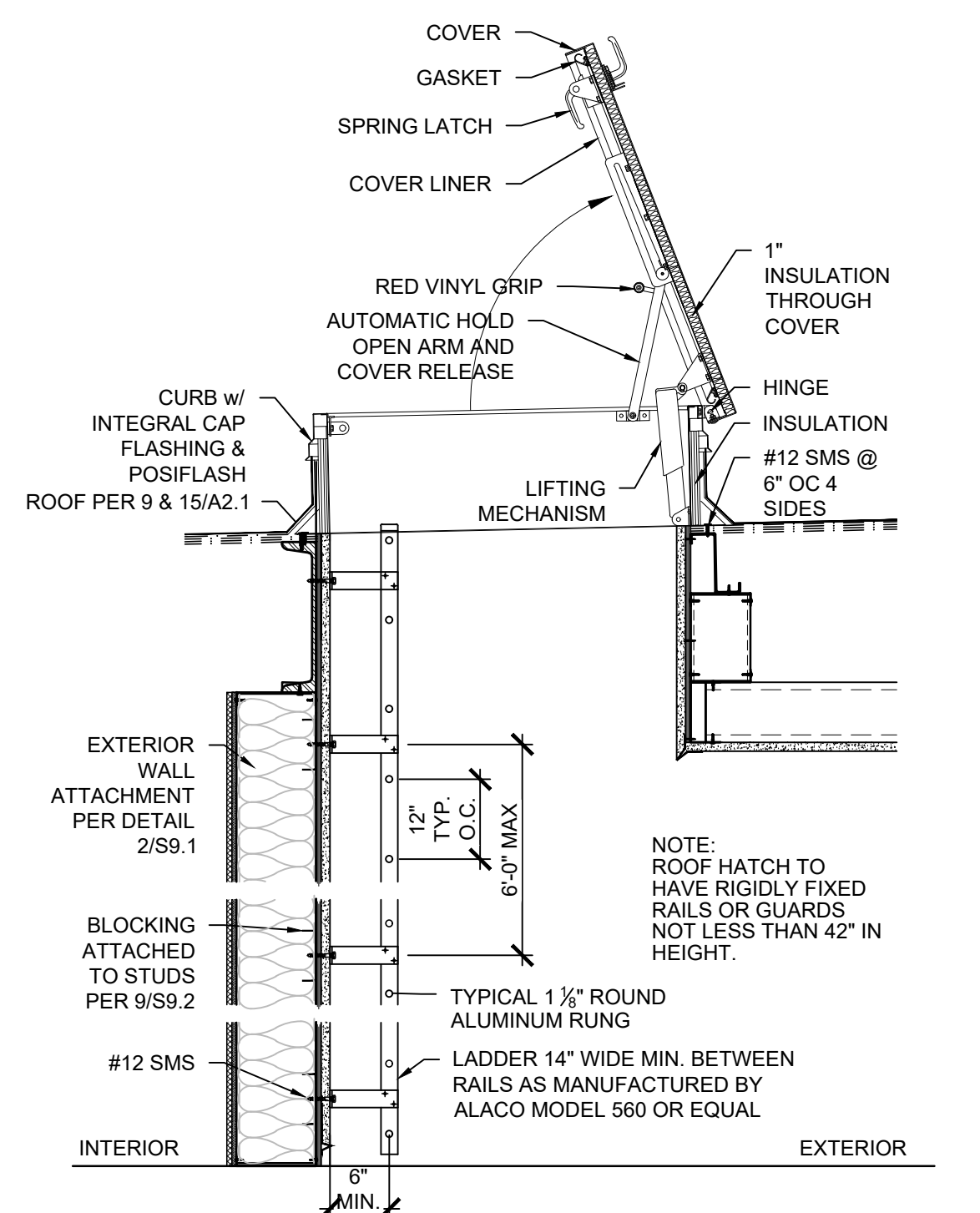


- 1 ROOF SHEATHING PER SHEET S4.0
- 2 TYPICAL MOD LINE
- 3 PARAPET
- 4 TYPICAL ROOF SLOPE
- 5 TYPICAL HVAC UNIT
- 6 ROOF DRAIN/OVERFLOW, PER DETAIL 9/A2.1
- 7 SBS MODIFIED BITUMINOUS MEMBRANE ROOFING, COLD-APPLIED PER SHEET A2.1
- 8 PIPE VENT PER PLUMBING PLANS - PER DETAIL 5/M1.4. REFER TO PLUMBING PLANS FOR LOCATIONS
- 9 ROOF HATCH W/ACCESS LADDER - SEE SHEET A7.2 PROVIDE PROTECTIVE RAILING IF CLOSER THAN 10'-0" FROM EDGE OF ROOF
- 10 SPLIT HVAC OUTDOOR CONDENSING UNIT PER DETAILS 12 & 13/A2.1
- 11 PIPE SUPPORT PER DETAIL 5A/M1.4
- 12 GAS LINE (LOCATION MAY VARY PER SITE CONDITION)
- 13 CONDENSATE LINE (LOCATION MAY VARY PER SITE CONDITION)
- 14 HOSE BIBB

**KEY NOTES**



**INTERIOR ROOF HATCH** SCALE: 3/4" = 1'-0" A



**EXTERIOR ROOF HATCH** SCALE: 3/4" = 1'-0" B

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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD

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REVISIONS	

DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 03/15/21  
PROJECT NO: 1613-20  
SHEET TITLE:  
**ROOF PLAN**  
SHEET NUMBER:

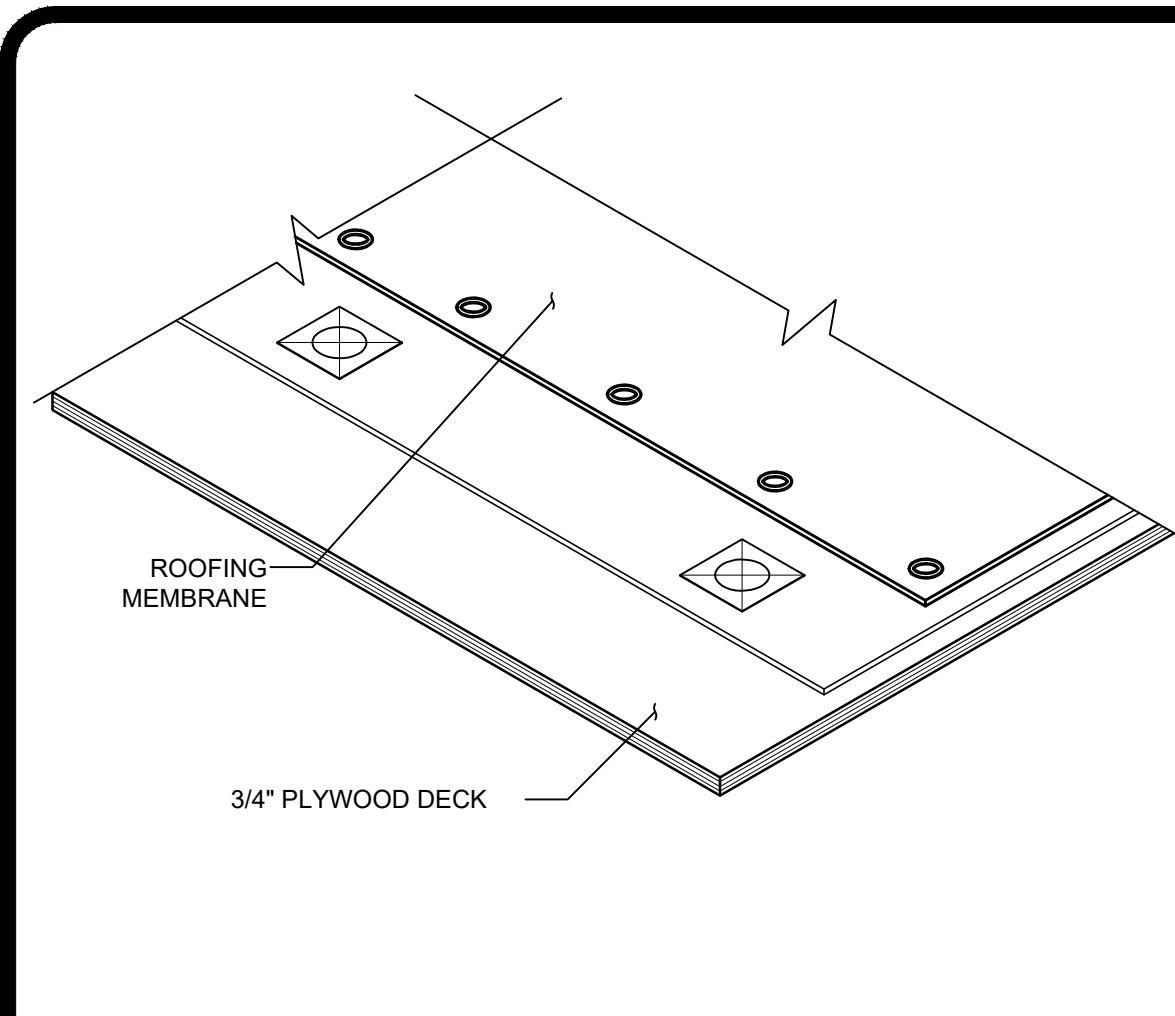
**A2.0**

TYPICAL ROOF PLAN

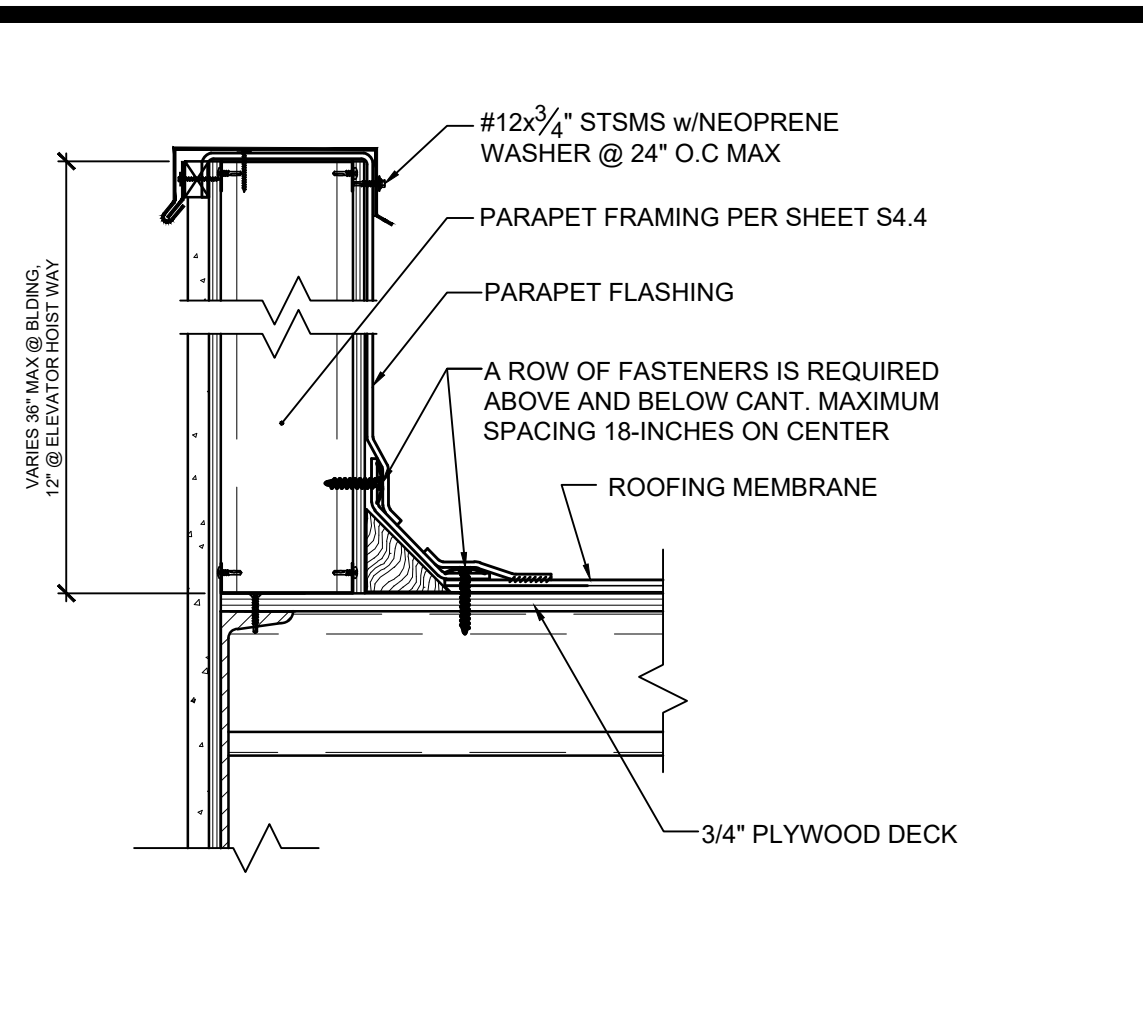
SCALE: 1/8" = 1'-0"

SCALE: 3/4" = 1'-0"

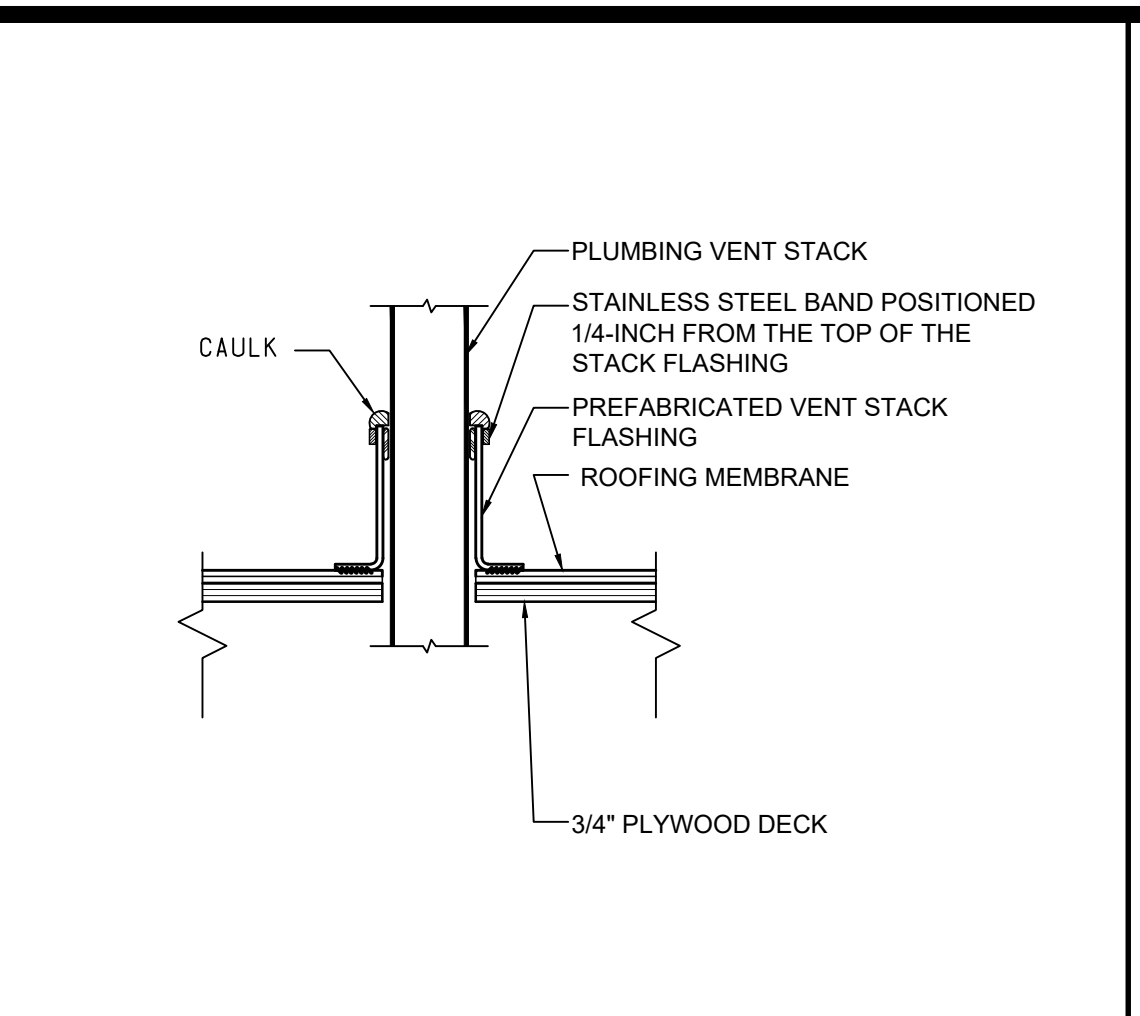
BID SET 10/01/2021



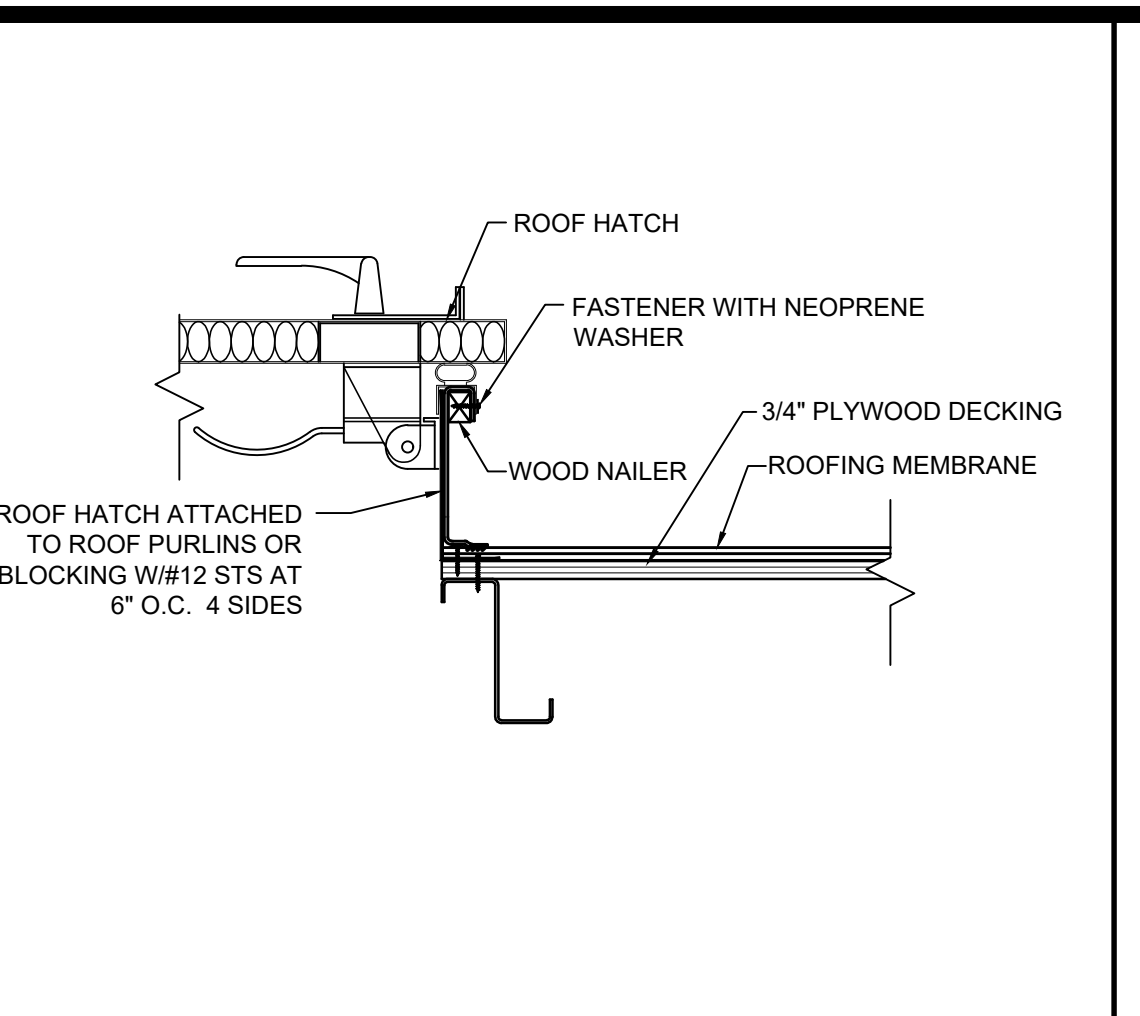
SINGLE PLY ROOFING DETAIL SCALE: 1 1/2"=1'-0" 1



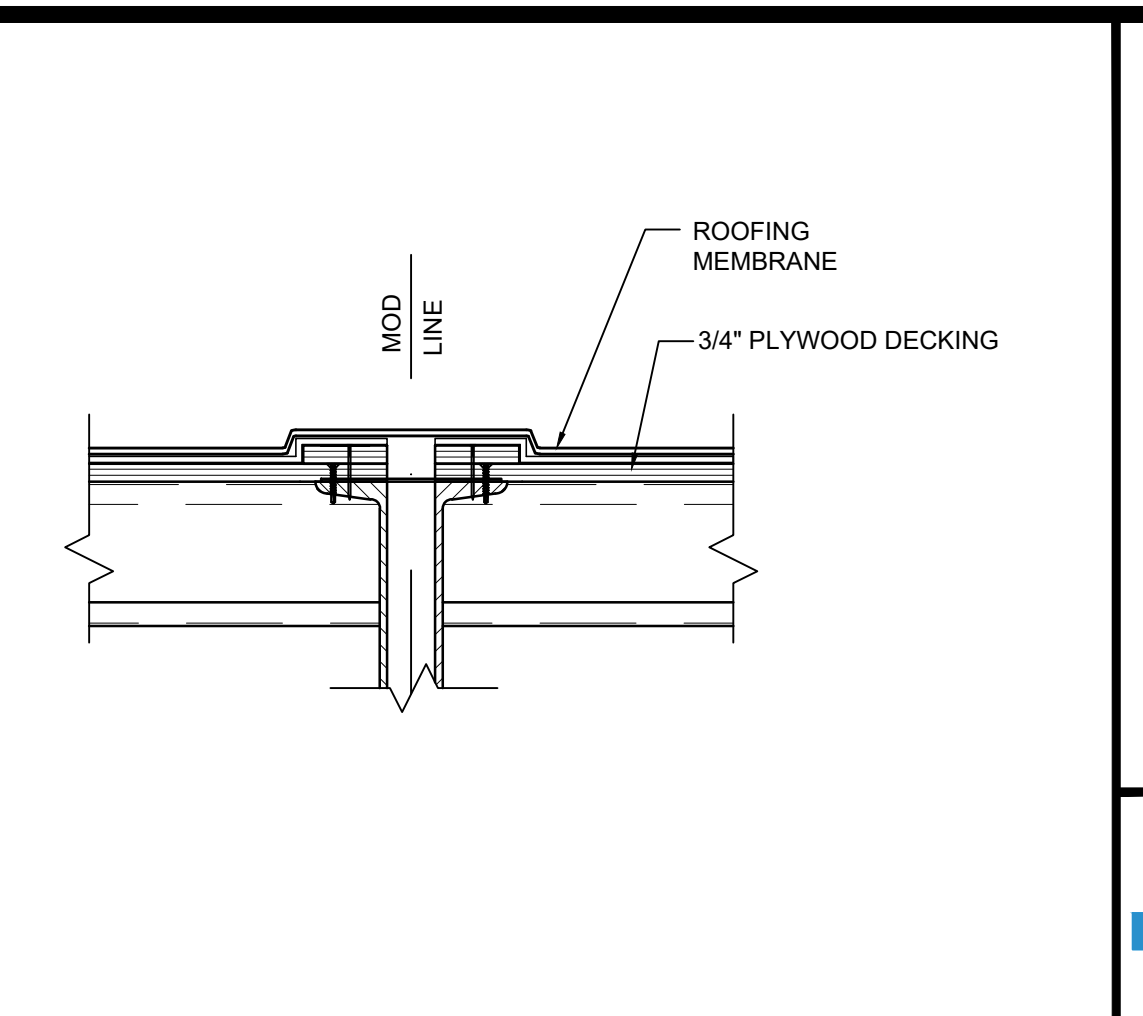
DETAIL @ PARAPET SCALE: 1 1/2"=1'-0" 2



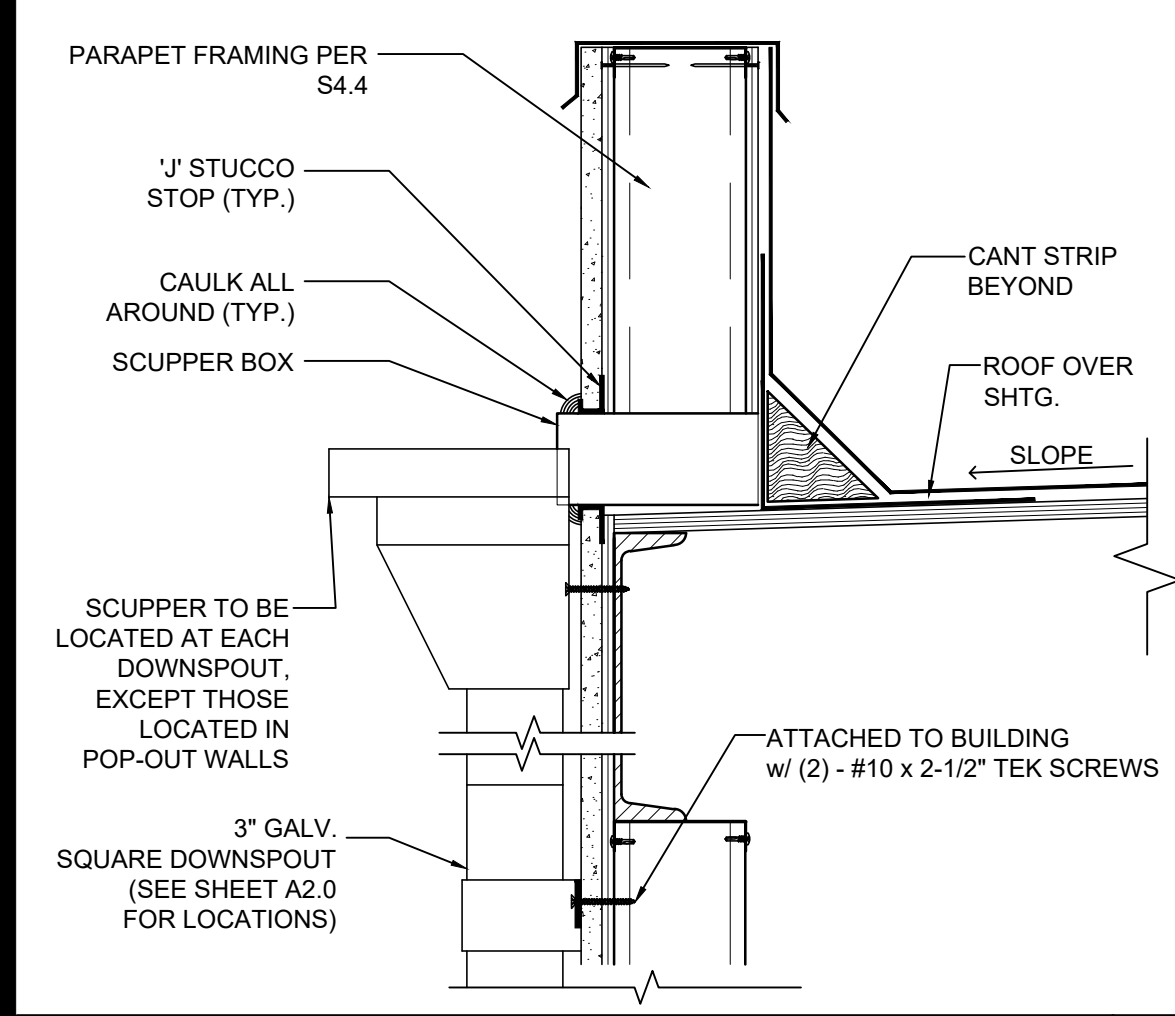
ROOF PENETRATION DETAIL SCALE: 1 1/2"=1'-0" 3



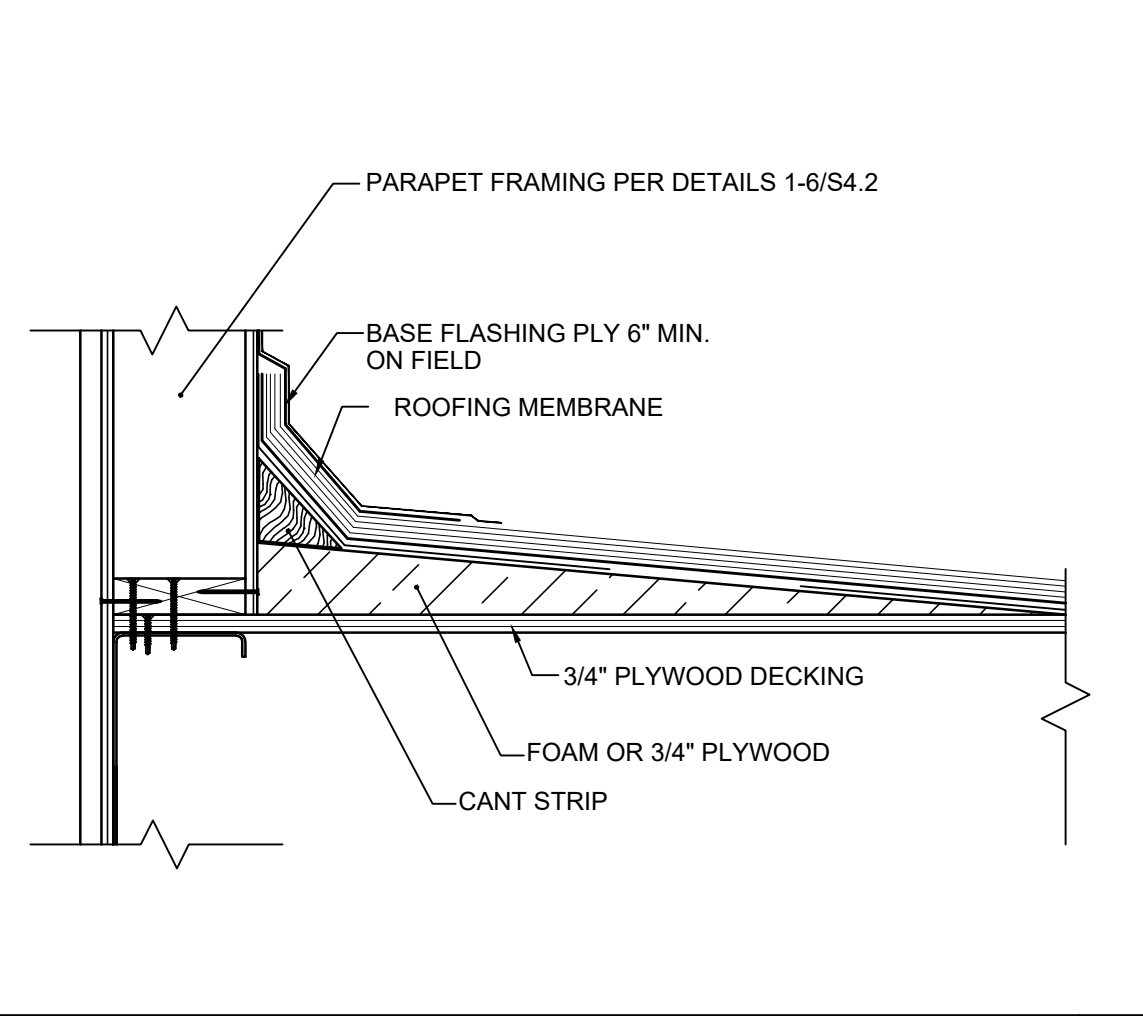
ROOF HATCH DETAIL SCALE: 1 1/2"=1'-0" 4



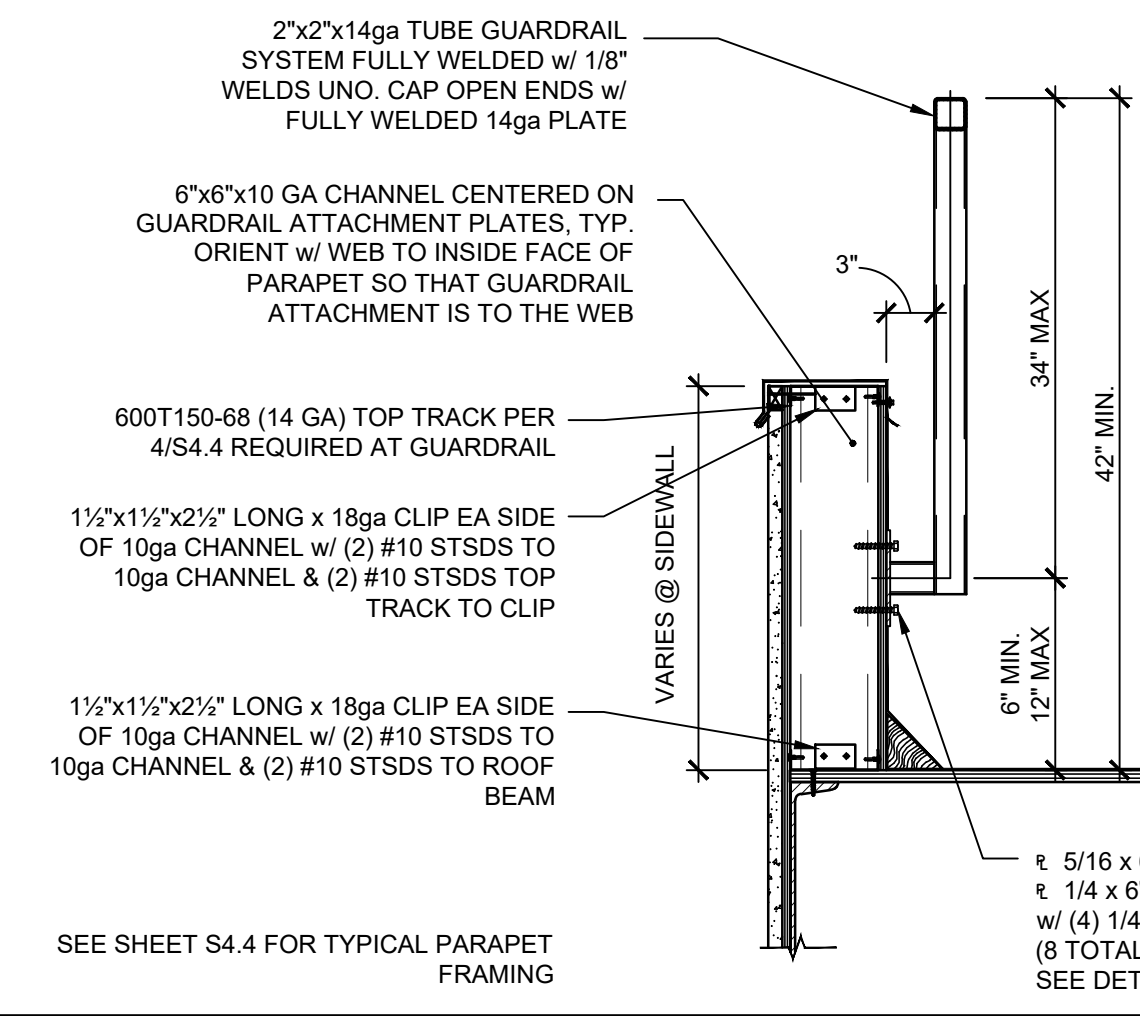
DETAIL AT MOD-LINE SCALE: 1 1/2"=1'-0" 5



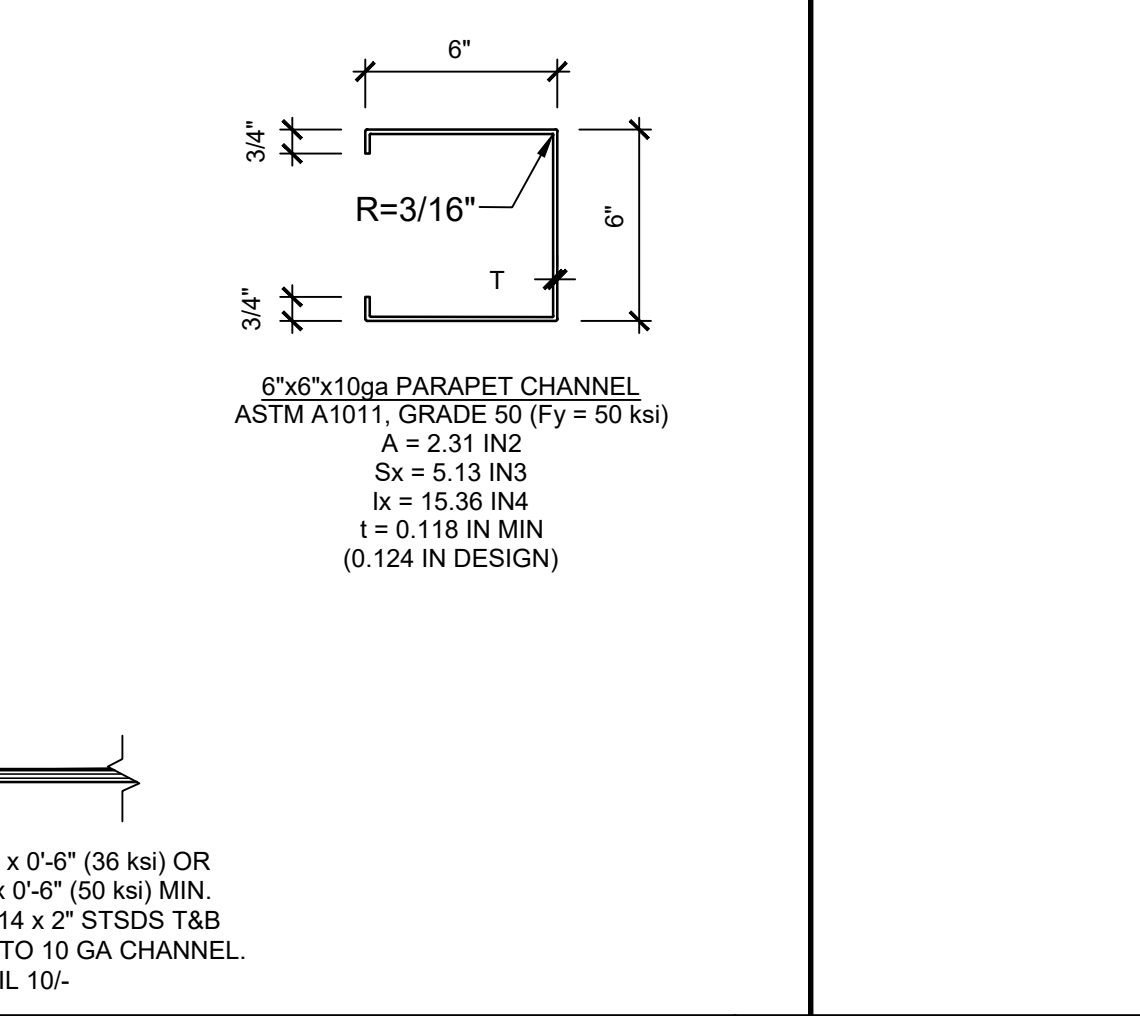
TYP. SCUPPER DETAIL SCALE: 1 1/2"=1'-0" 6



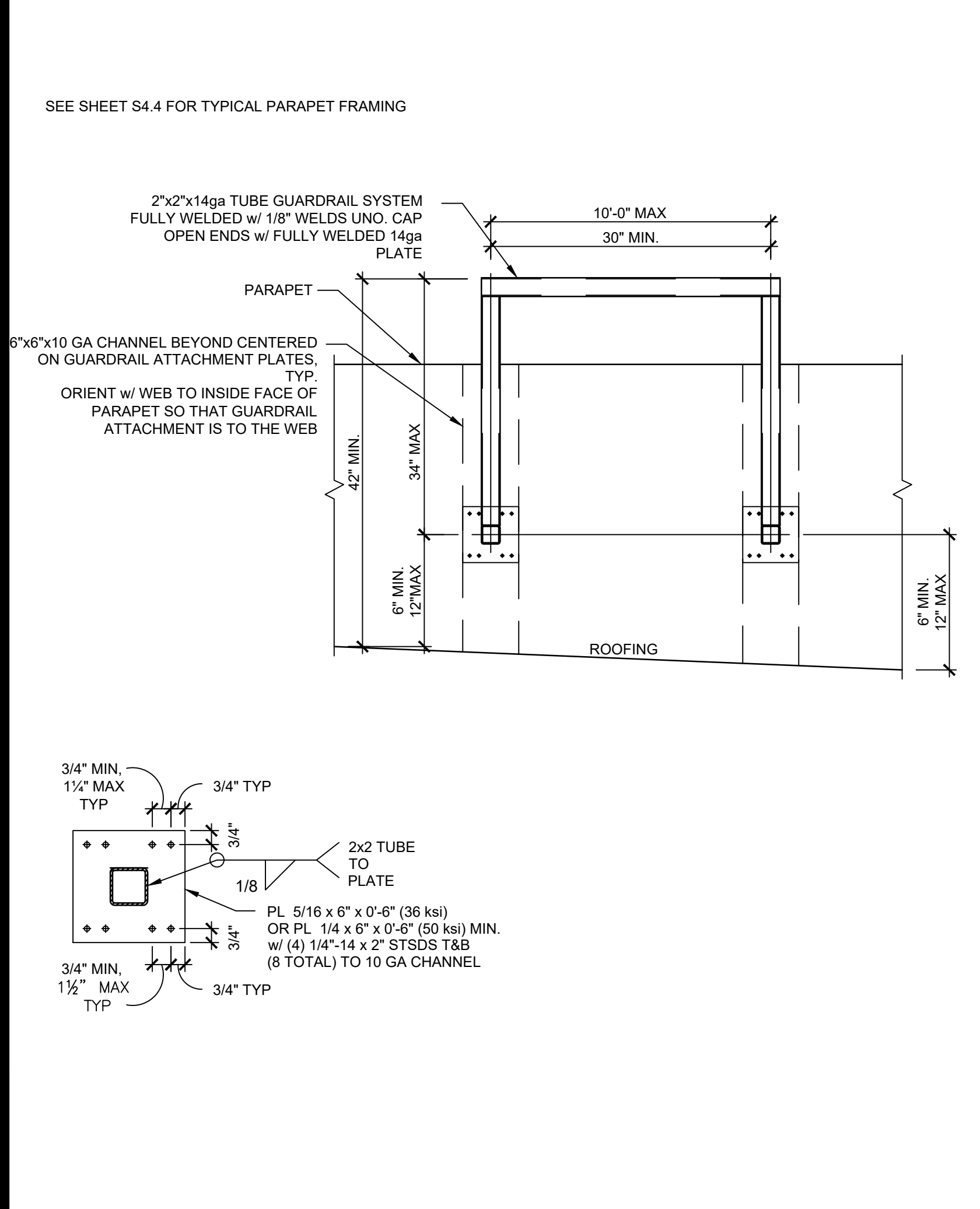
CRICKET DETAIL SCALE: 1 1/2"=1'-0" 7



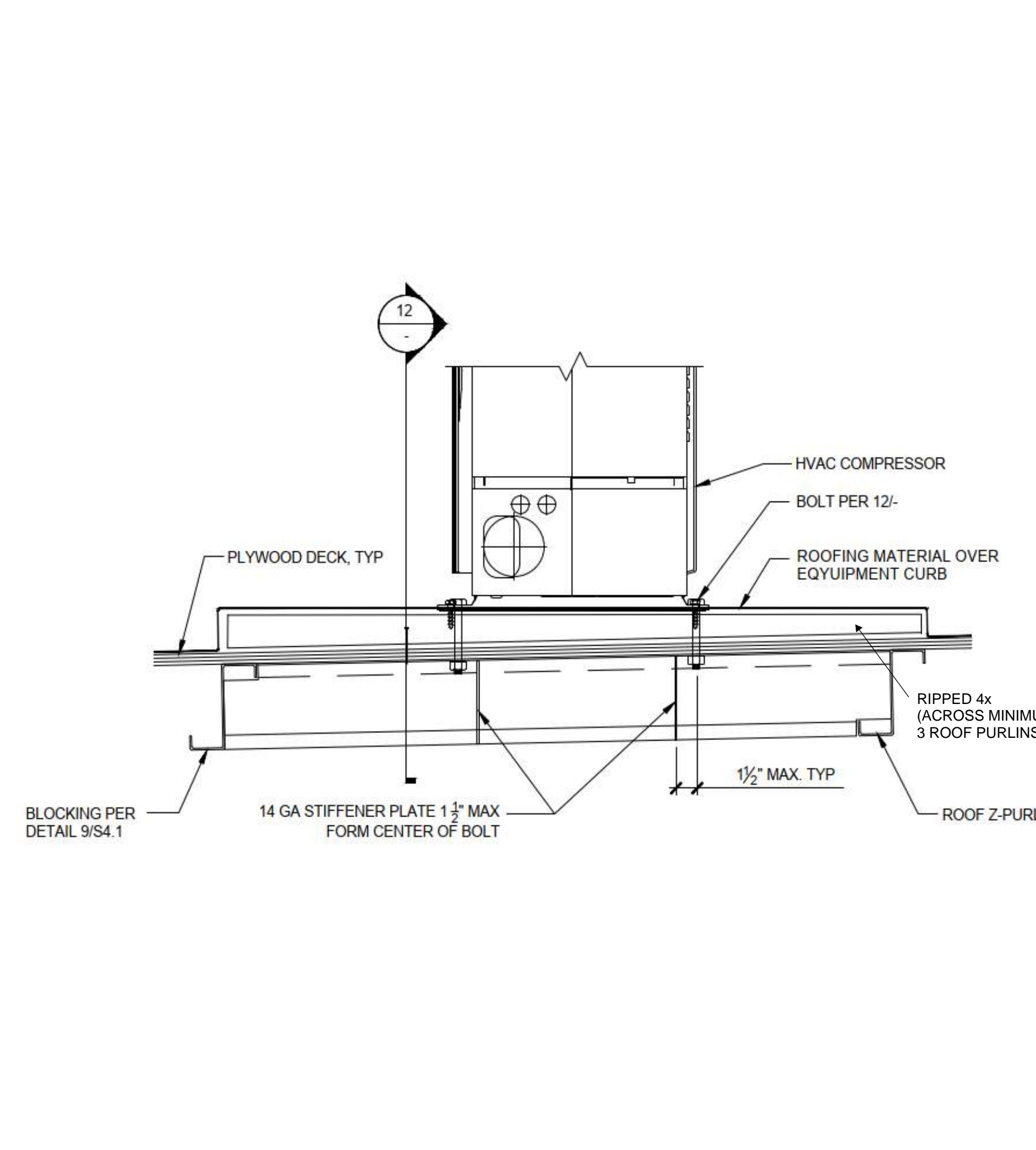
RAIL DETAIL SCALE: 1 1/2"=1'-0" 8



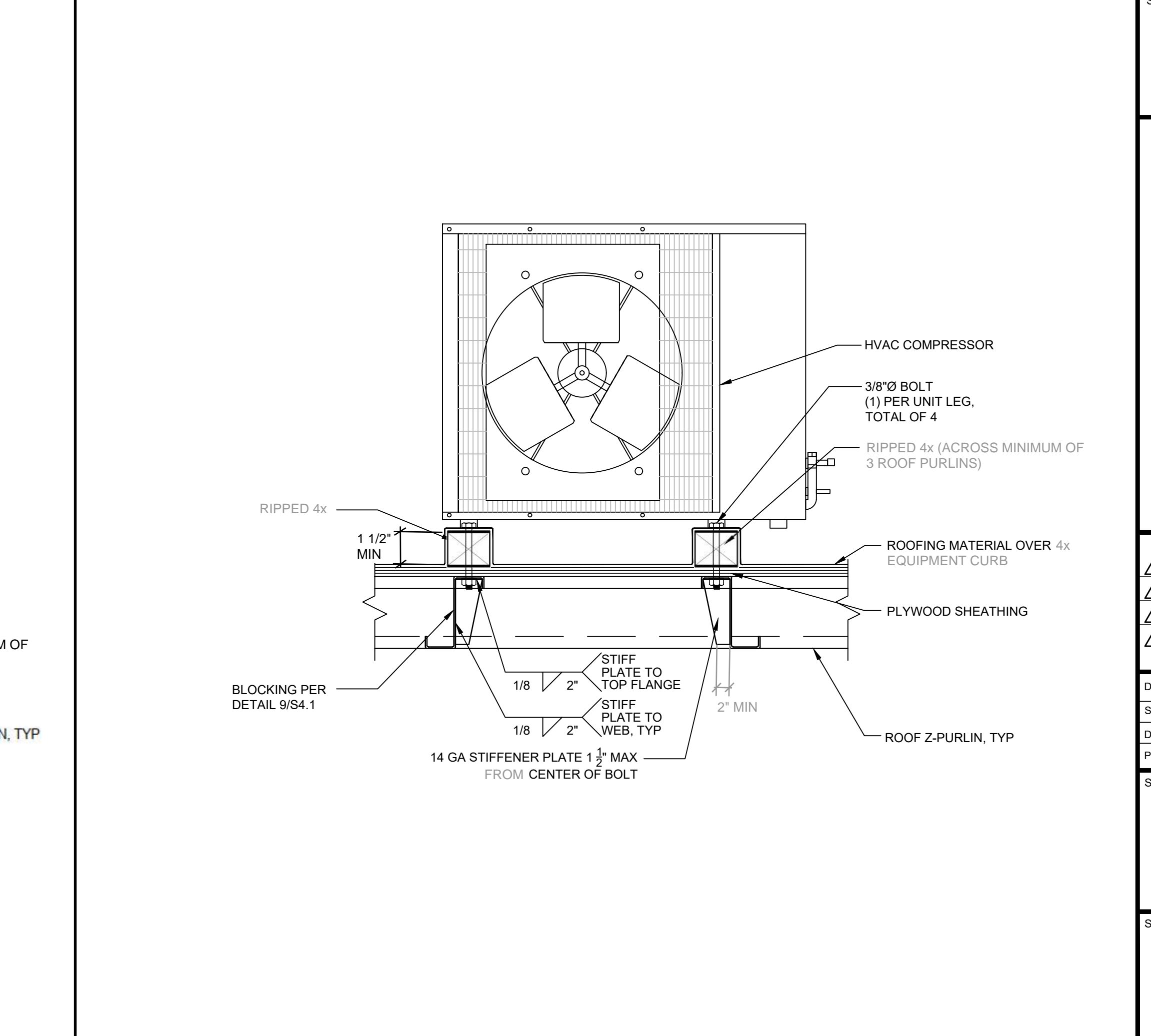
RAIN LEADER HEAD DETAIL SCALE: 1 1/2"=1'-0" 9



GUARD RAIL DETAIL SCALE: 1 1/2"=1'-0" 10



HVAC CONDENSER ANCHORAGE DETAIL SCALE: 1 1/2"=1'-0" 11



HVAC CONDENSER ANCHORAGE DETAIL SCALE: 1 1/2"=1'-0" 12



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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD ON PC



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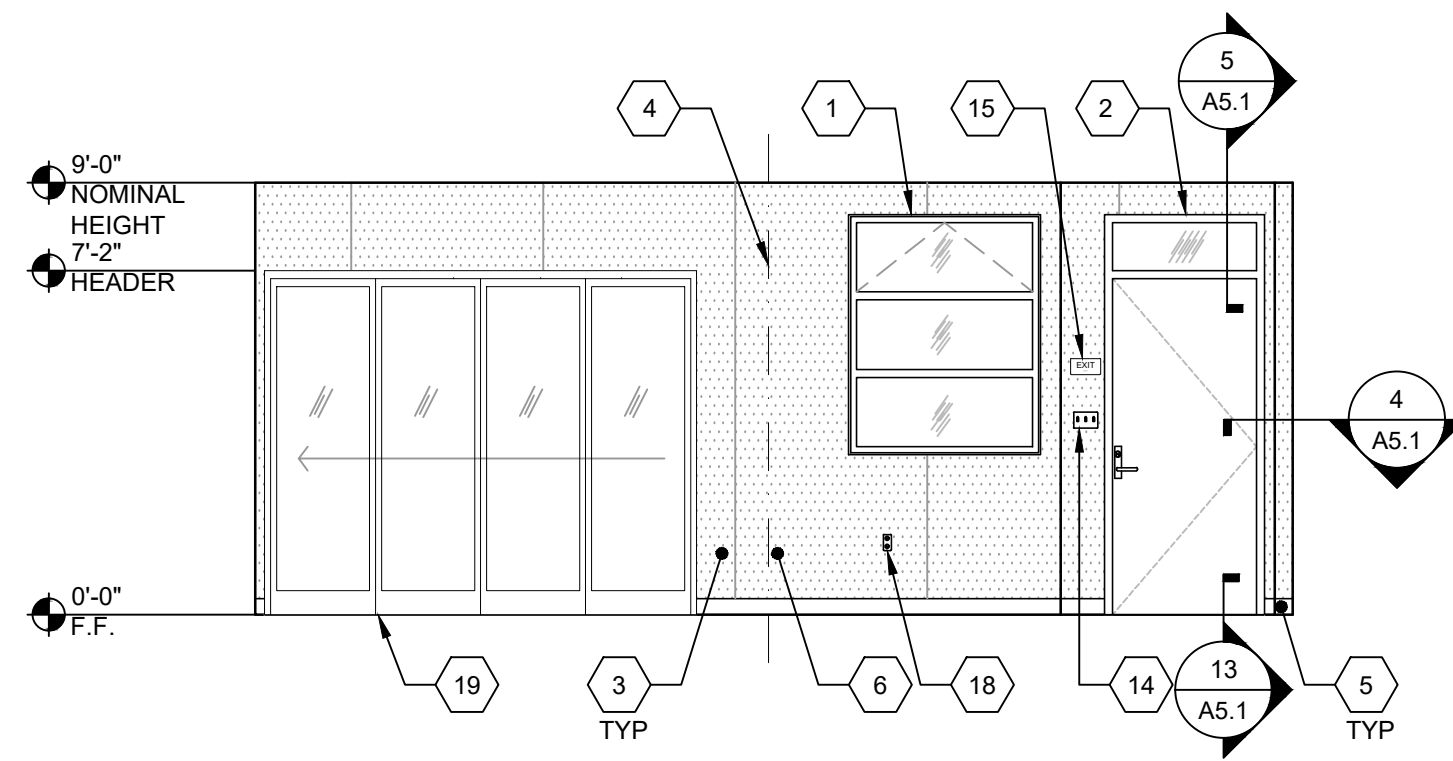
REVISIONS	

DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20

SHEET TITLE:  
**ROOFING DETAILS**

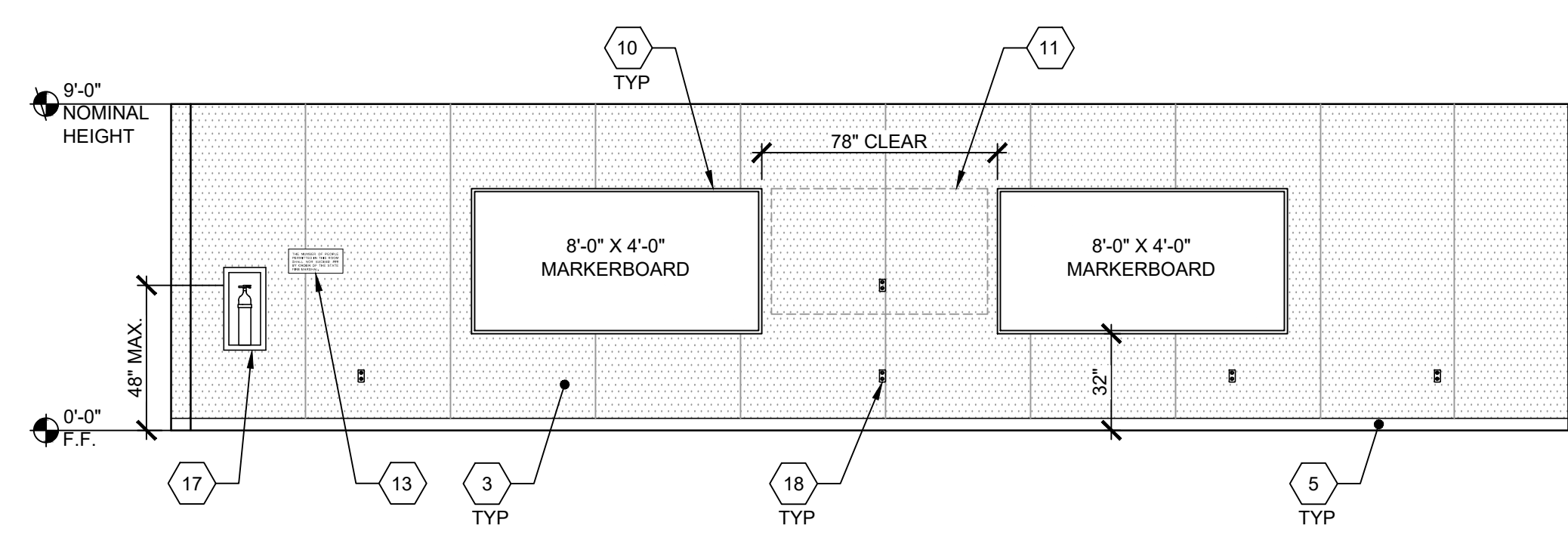
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BID SET 10/01/2021



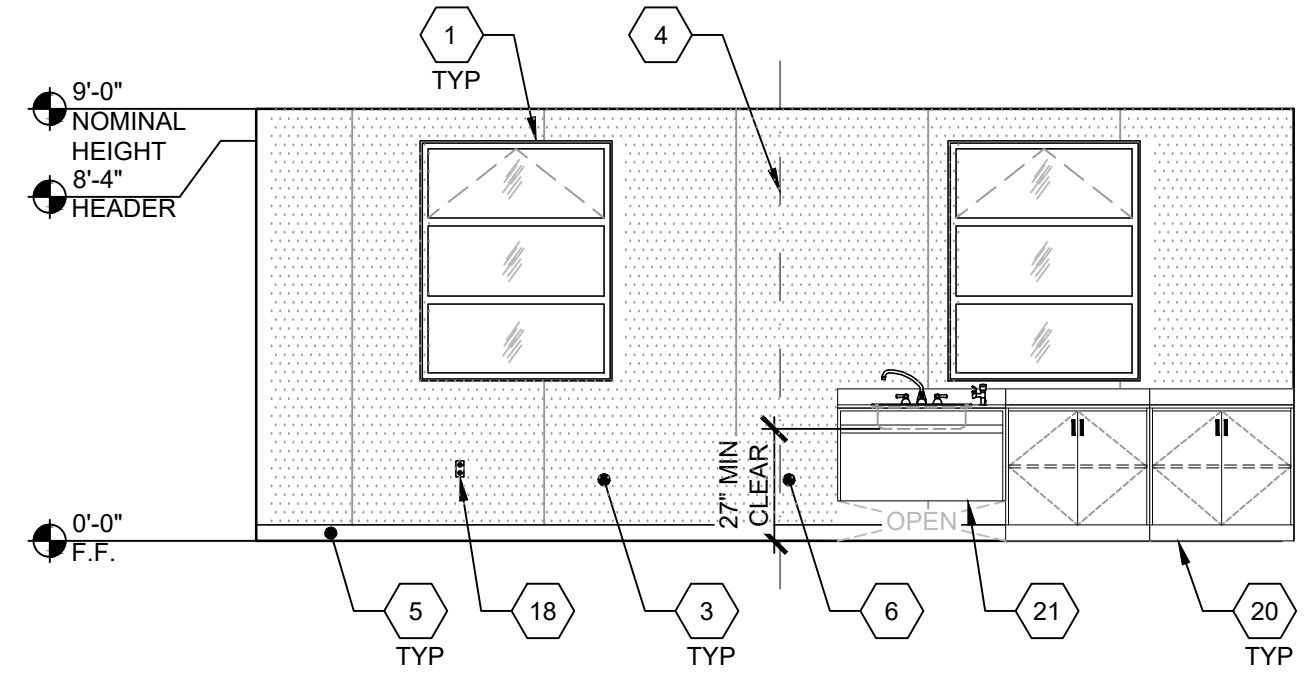
TYPICAL CLASSROOM FRONT WALL ELEVATION- GROUND FLOOR

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



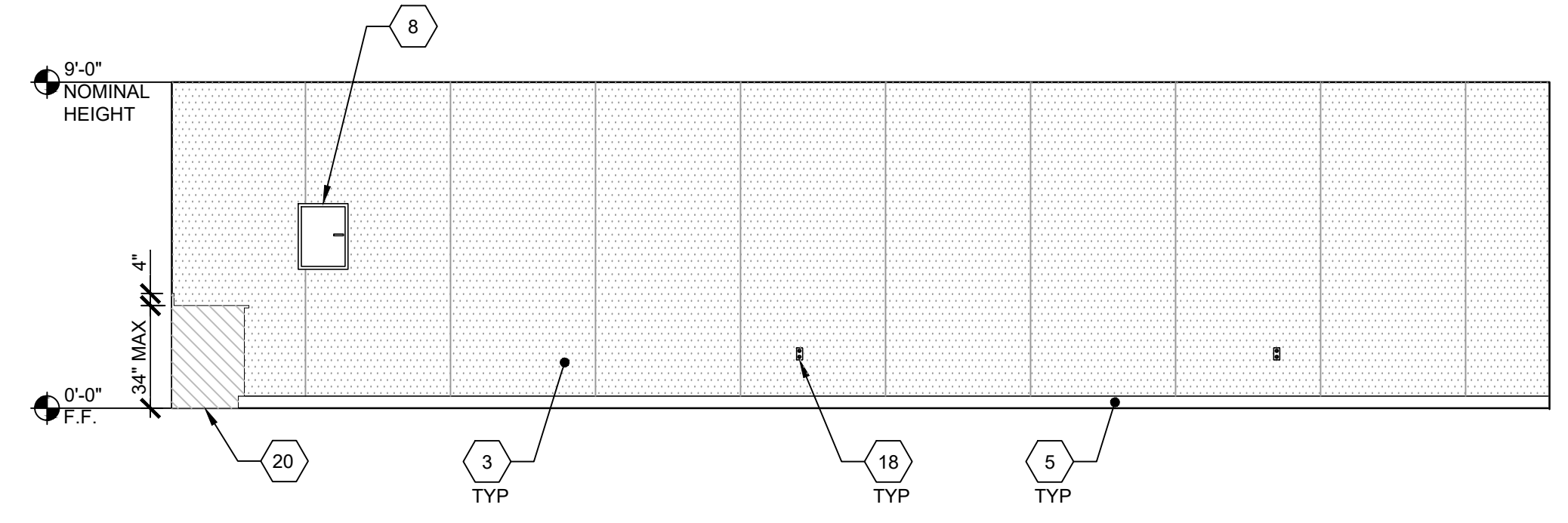
TYPICAL CLASSROOM SIDE WALL ELEVATION- GROUND FLOOR

SCALE : 1/4"=1'-0" 2



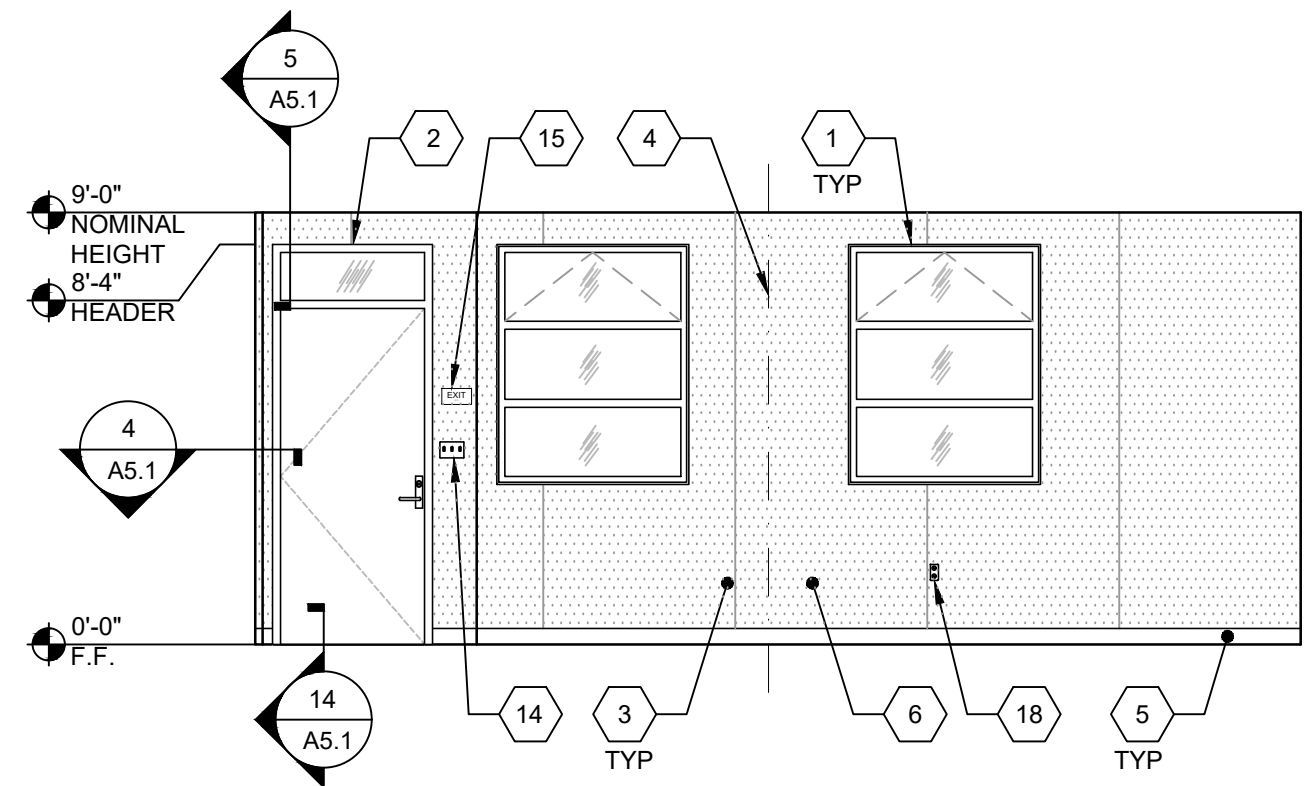
TYPICAL CLASSROOM REAR WALL ELEVATION- GROUND FLOOR

SCALE : 1/4"=1'-0" 3



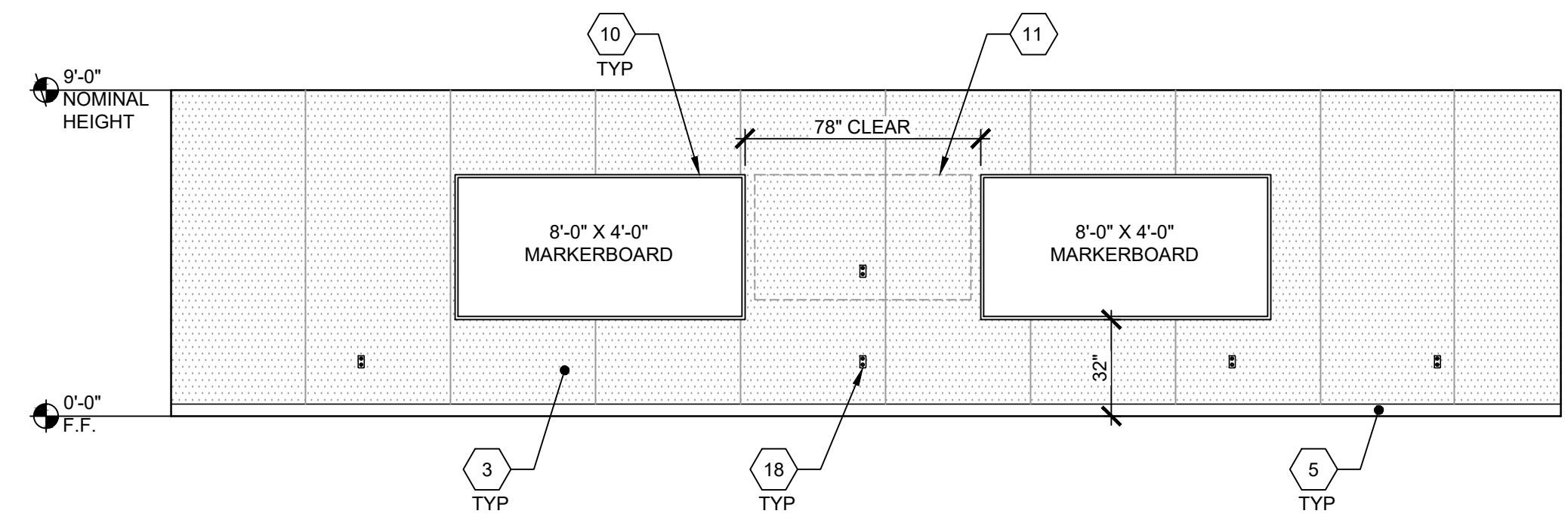
TYPICAL CLASSROOM SIDE WALL ELEVATION- GROUND FLOOR

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



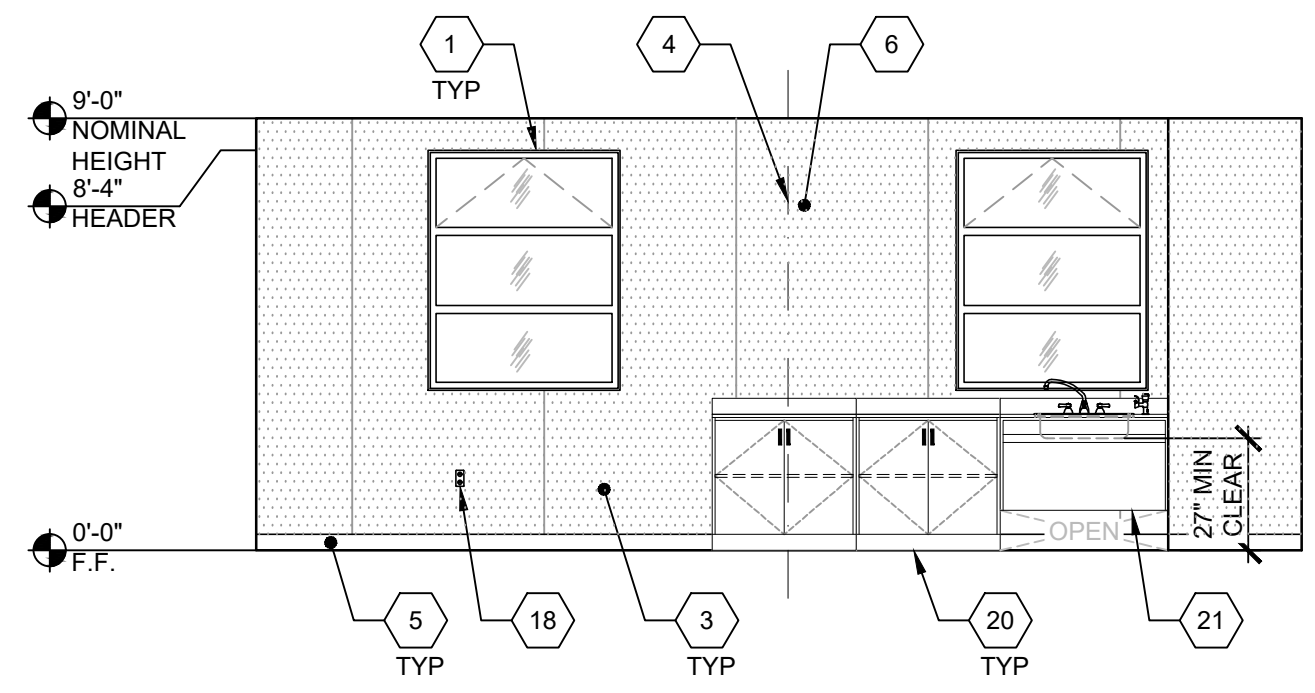
TYPICAL CLASSROOM FRONT WALL ELEVATION- SECOND FLOOR

SCALE : 1/4"=1'-0" 5



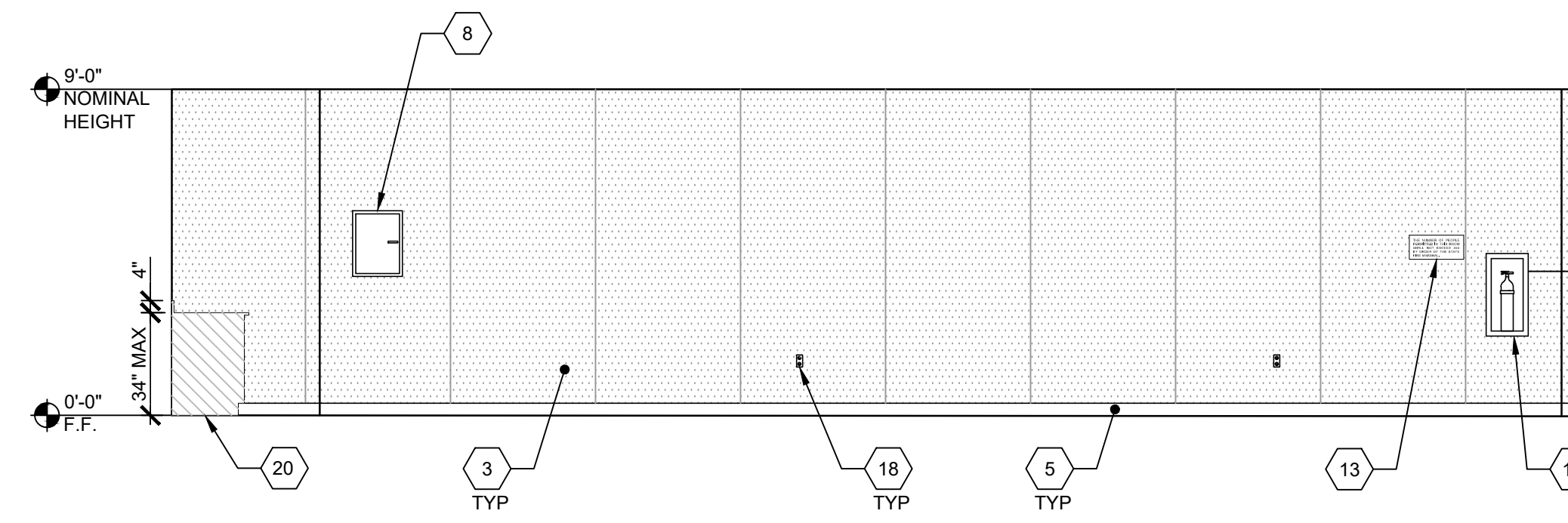
TYPICAL CLASSROOM SIDE WALL ELEVATION- SECOND FLOOR

SCALE : 1/4"=1'-0" 6



TYPICAL CLASSROOM REAR WALL ELEVATION- SECOND FLOOR

SCALE : 1/4"=1'-0" 7



TYPICAL CLASSROOM SIDE WALL ELEVATION- SECOND FLOOR

SCALE : 1/4"=1'-0" 8

- 1 WINDOW. SEE SCHEDULE ON SHEET N3.0.
- 2 TYP. EXTERIOR DOOR. SEE SCHEDULE ON SHEET N3.0.
- 3 VINYL WRAPPED TACKABLE WALL PANELS. SEE FINISH SCHEDULE ON SHEET N3.0.
- 4 TYP. MOD LINE
- 5 TOP SET BASE
- 6 FULL PANEL CLOSE-UP @ MOD-LINES, TYP.
- 7 NOT USED
- 8 ELECTRICAL PANEL - SEE ELECTRICAL SHEETS
- 9 NOT USED
- 10 8'x4' MARKERBOARD
- 11 FUTURE TV (BY DISTRICT)- AMS TO PROVIDE BLOCKING
- 12 NOT USED
- 13 NOT USED
- 14 LIGHT SWITCH, SEE ELECTRICAL SHEETS
- 15 EXIT TACTILE SIGN AT GROUND FLOOR, PER DETAIL 10/M4.0 (NIC)
- 16 THERMOSTAT, TOP OF BOX @ 46" A.F.F. - SEE MECHANICAL SHEETS
- 17 FIRE EXTINGUISHER. TOP OF OPERATING HANDLE @ +48" A.F.F. MAX PROTRUSION OF 4" FROM WALL, OR BOTTOM OF FIRE EXTINGUISHER LESS THAN +27" A.F.F.
- 18 TYP. DUPLEX OUTLET, SEE ELECTRICAL SHEETS
- 19 NANA WALL
- 20 CASEWORK- BLOCKING PER A7.1
- 21 CASEWORK W/ SINK- BLOCKING PER A7.1 & P1.0 FOR PLUMBING FIXTURE SCHEDULE

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**KEY NOTES**

SITE SPECIFIC PROJECT NAME  
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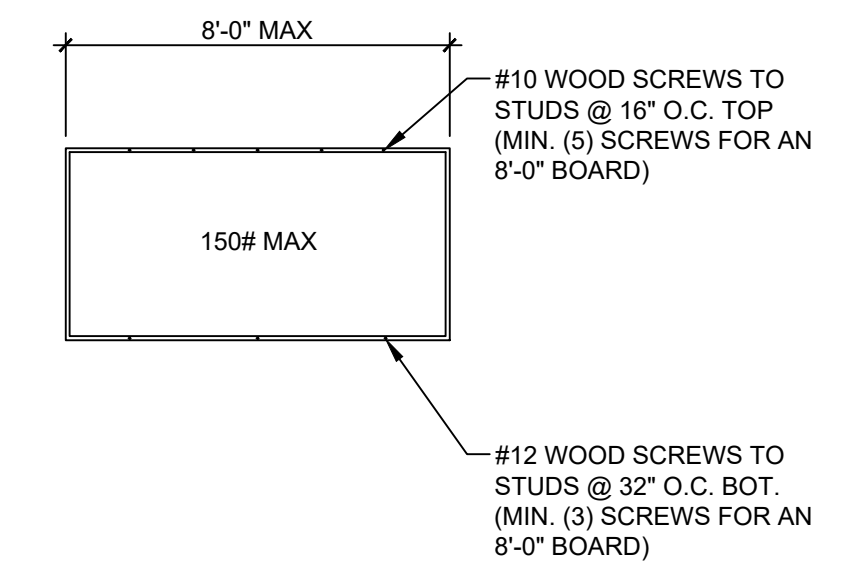

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REVISIONS


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 08/10/21  
PROJECT NO: 1613-20

SHEET TITLE:  
**INTERIOR ELEVATIONS @ TYP. CLASSROOM**

SHEET NUMBER:  
**A4.0A**

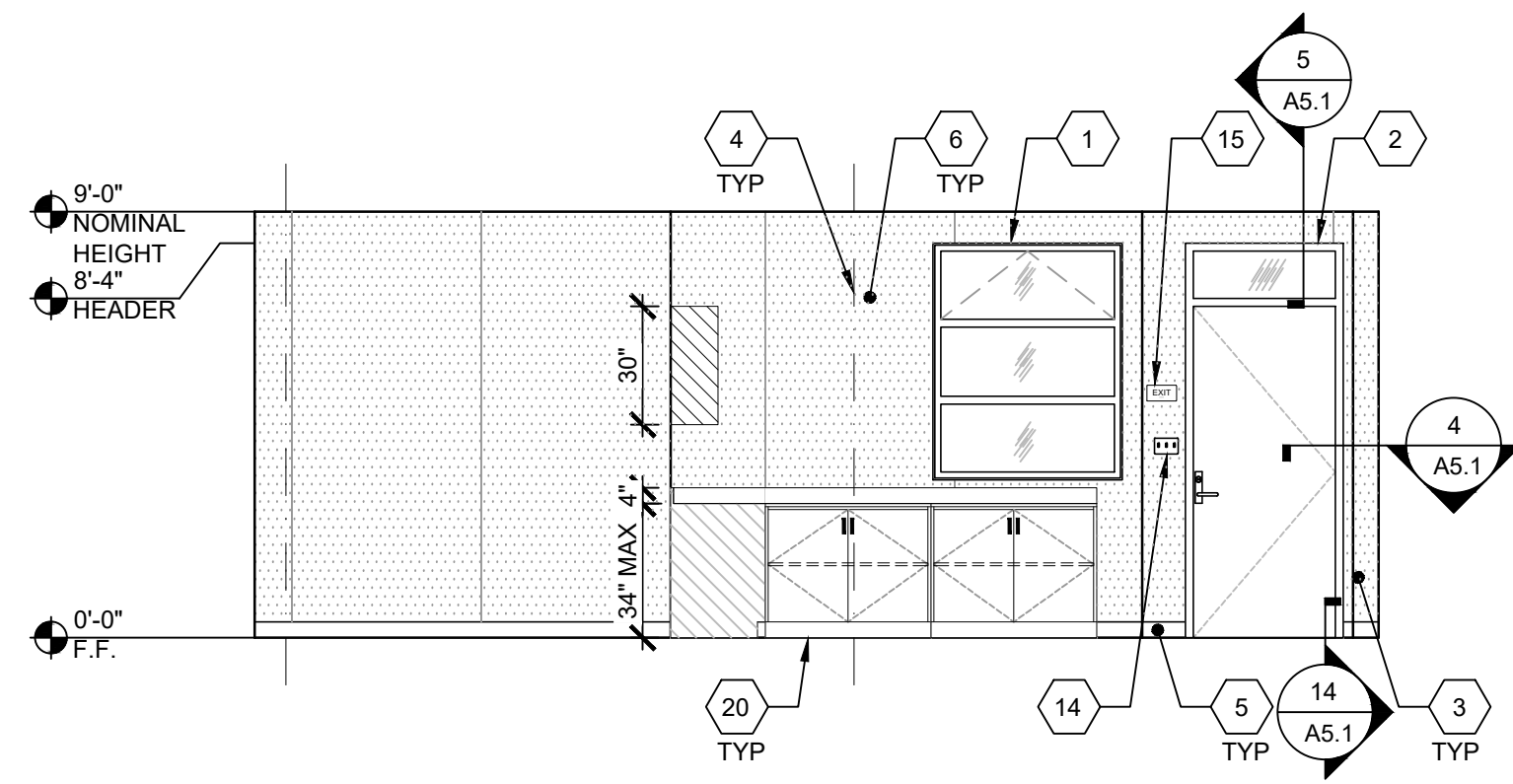


- NOTE:**
1. ATTACHMENT IS FOR EACH MARKERBOARD.
  2. EACH WHITEBOARD SHALL PROTRUDE 4" MAX HORIZONTALLY INTO THE CIRCULATION PATH, PER CBC SECTION 11B-307.2.

MARKERBOARD DETAIL

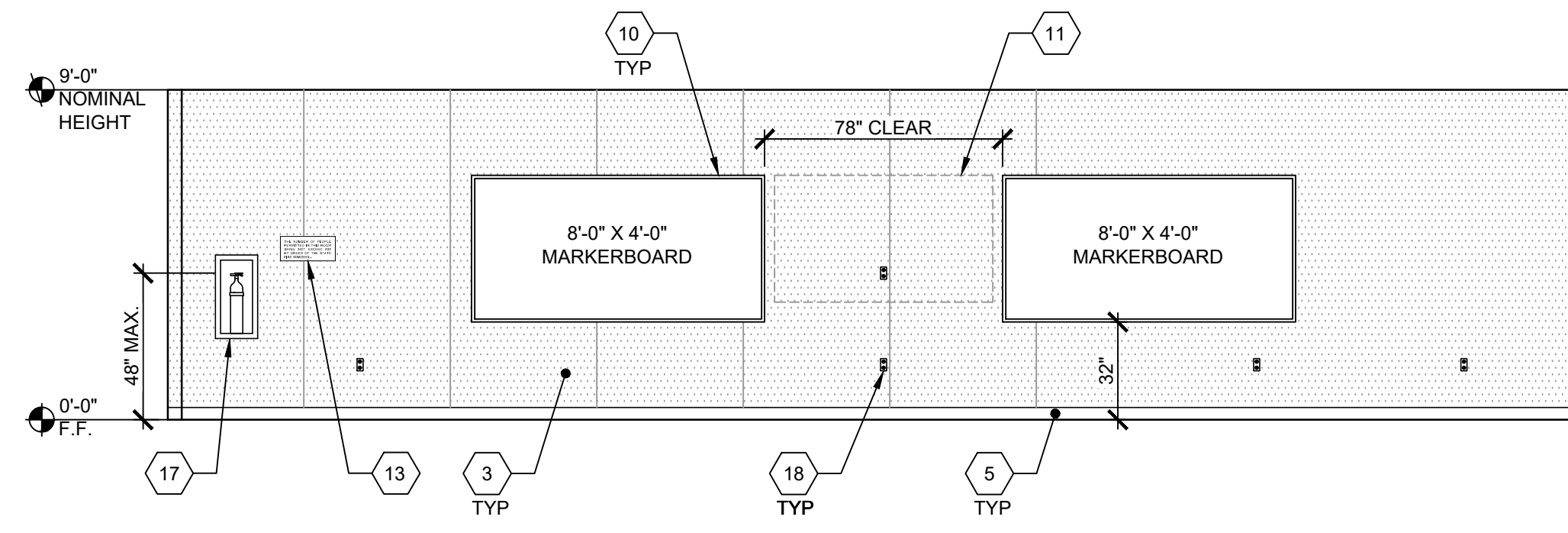
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BID SET 10/01/2021



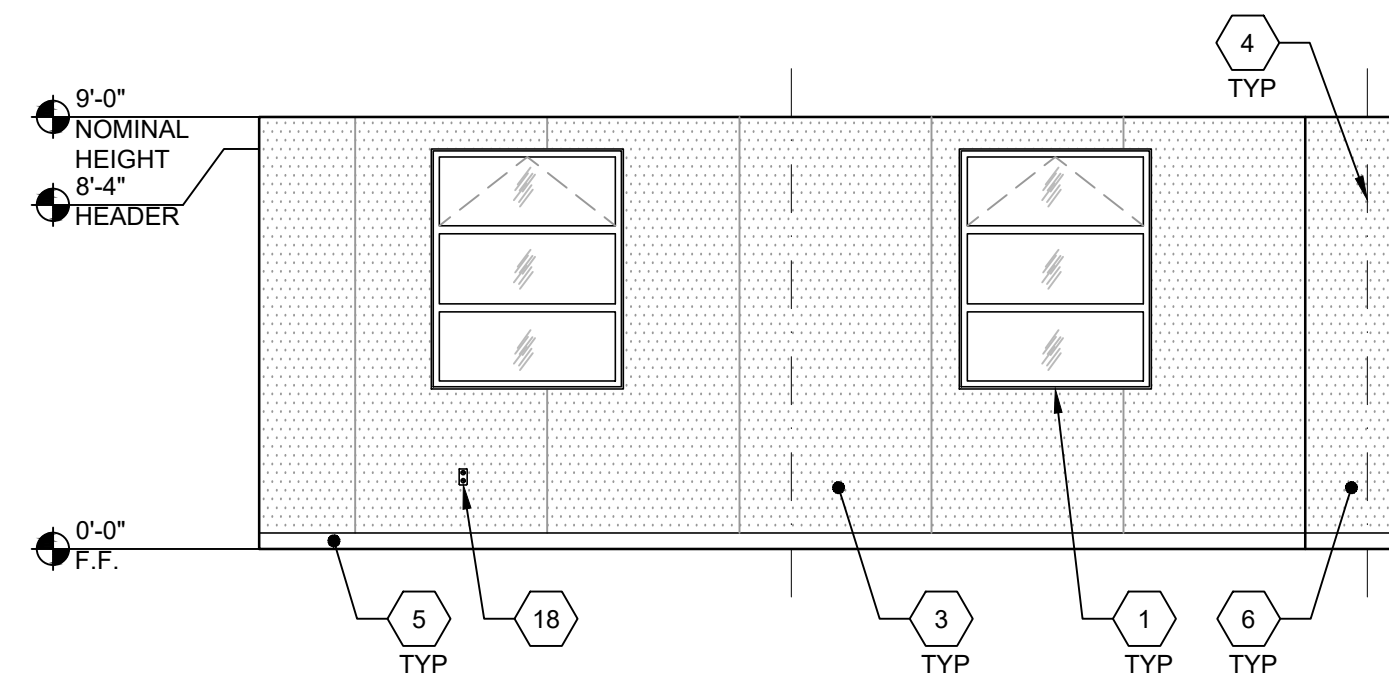
WORKROOM FRONT WALL ELEVATION

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



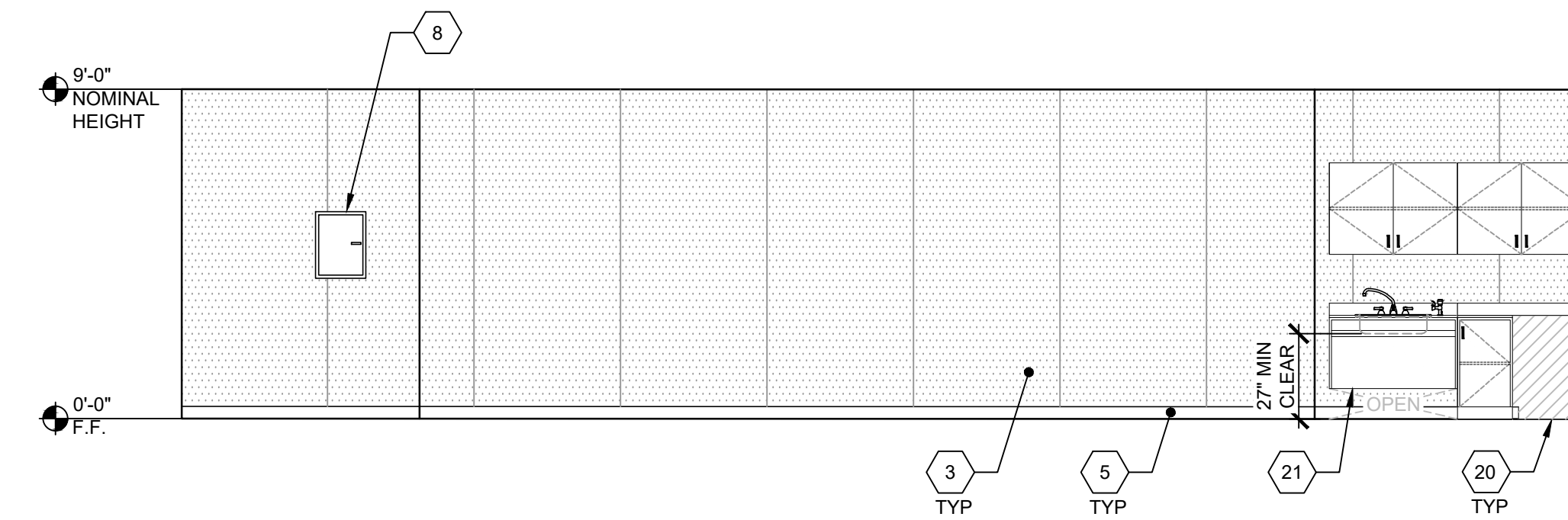
WORKROOM SIDE WALL ELEVATION

SCALE : 1/4"=1'-0" 2



WORKROOM BACK WALL ELEVATION

SCALE : 1/4"=1'-0" 3

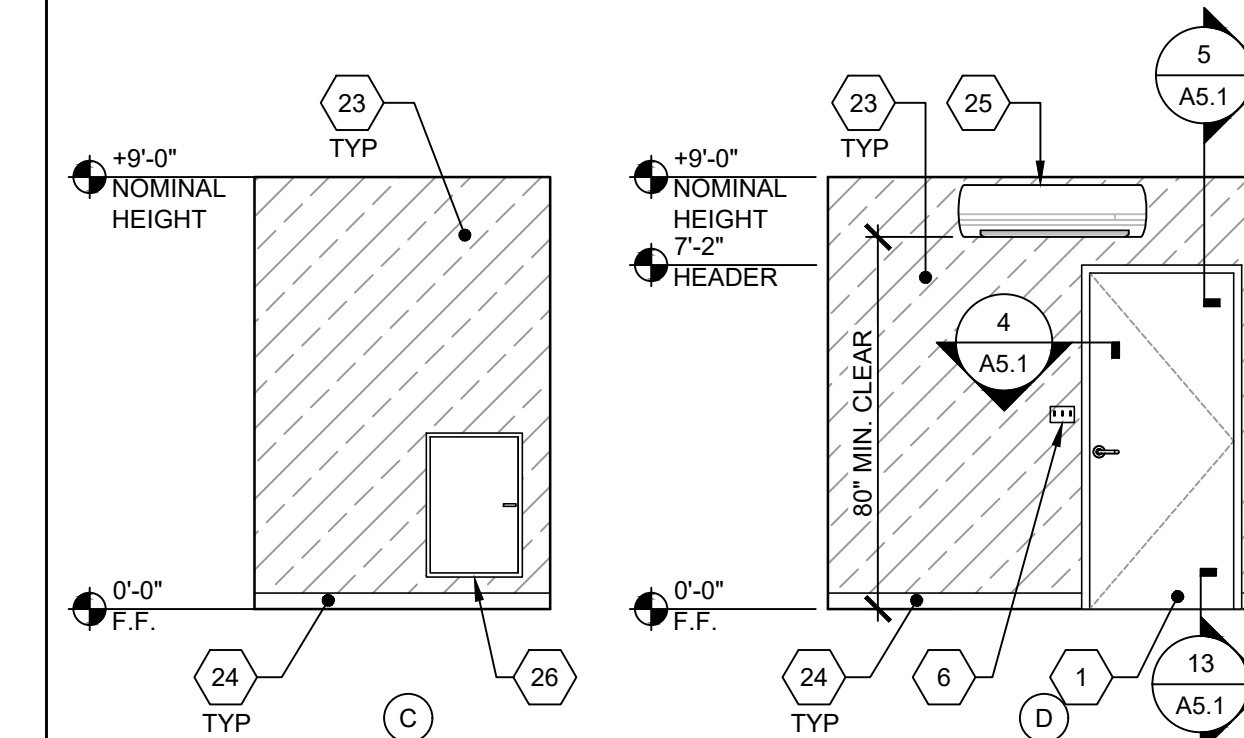
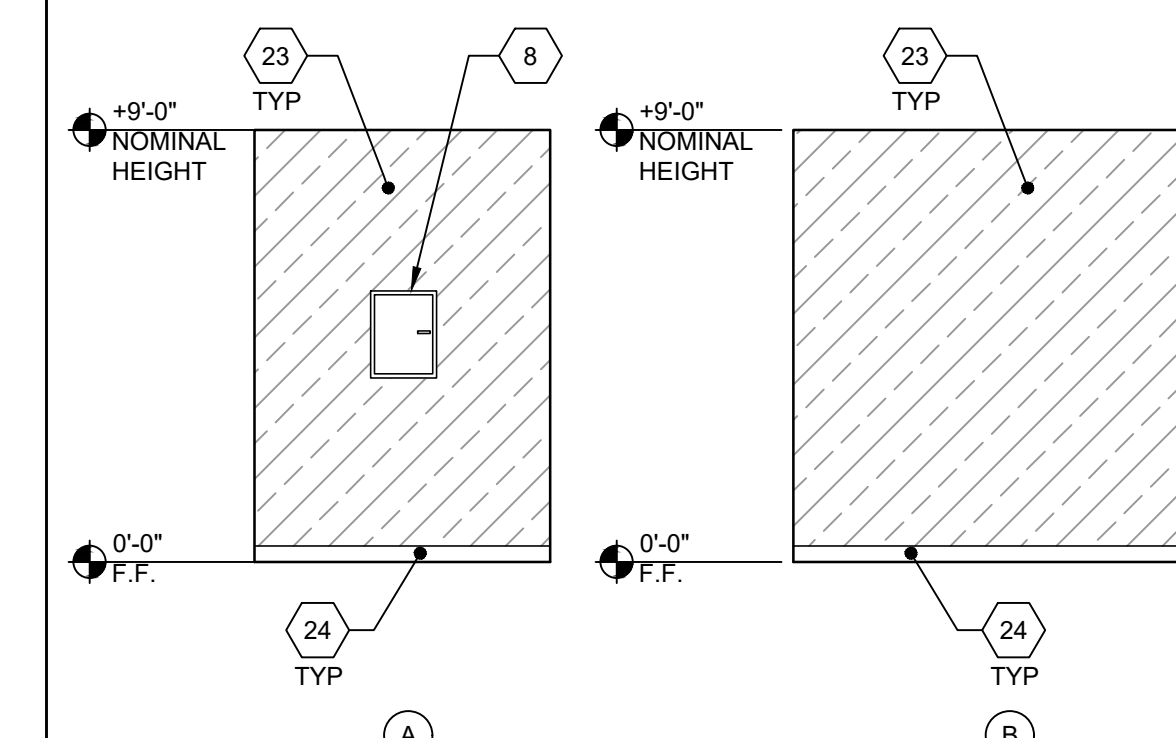


WORKROOM SIDE WALL ELEVATION

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

- 1 WINDOW. SEE SCHEDULE ON SHEET N3.0.
- 2 TYP. EXTERIOR DOOR. SEE SCHEDULE ON SHEET N3.0.
- 3 VINYL WRAPPED TACKABLE WALL PANELS. SEE FINISH SCHEDULE ON SHEET N3.0.
- 4 TYP. MOD LINE
- 5 TOP SET BASE
- 6 FULL PANEL CLOSE-UP @ MOD-LINES. TYP.
- 7 NOT USED
- 8 ELECTRICAL PANEL - SEE ELECTRICAL SHEETS
- 9 NOT USED
- 10 8'x4' MARKERBOARD
- 11 FUTURE TV (BY DISTRICT) - AMS TO PROVIDE BLOCKING
- 12 NOT USED
- 13 NOT USED
- 14 LIGHT SWITCH, SEE ELECTRICAL SHEETS
- 15 EXIT TACTILE SIGN AT GROUND FLOOR, PER DETAIL 10/N4.0 (NIC)
- 16 THERMOSTAT, TOP OF BOX @ 46" A.F.F. - SEE MECHANICAL SHEETS
- 17 FIRE EXTINGUISHER. TOP OF OPERATING HANDLE @ +48" A.F.F. MAX PROTRUSION OF 4" FROM WALL, OR BOTTOM OF FIRE EXTINGUISHER LESS THAN +27" A.F.F.
- 18 TYP. DUPLEX OUTLET, SEE ELECTRICAL SHEETS
- 19 NOT USED
- 20 CASEWORK - BLOCKING PER A7.1
- 21 CASEWORK W/ SINK - BLOCKING PER A7.1 & P1.0 FOR PLUMBING FIXTURE SCHEDULE
- 22 NOT USED
- 23 FIRE RATED PLYWOOD
- 24 SELF COVED CONCRETE
- 25 SPLIT SYSTEM HVAC
- 26 ACCESS PANEL

KEY NOTES



NOT USED 5

NOT USED 6

NOT USED 7

NOT USED 8

NOT USED 9

NOT USED 10

NOT USED 11

NOT USED 12

LOW VOLTAGE ROOM ELEVATION 13

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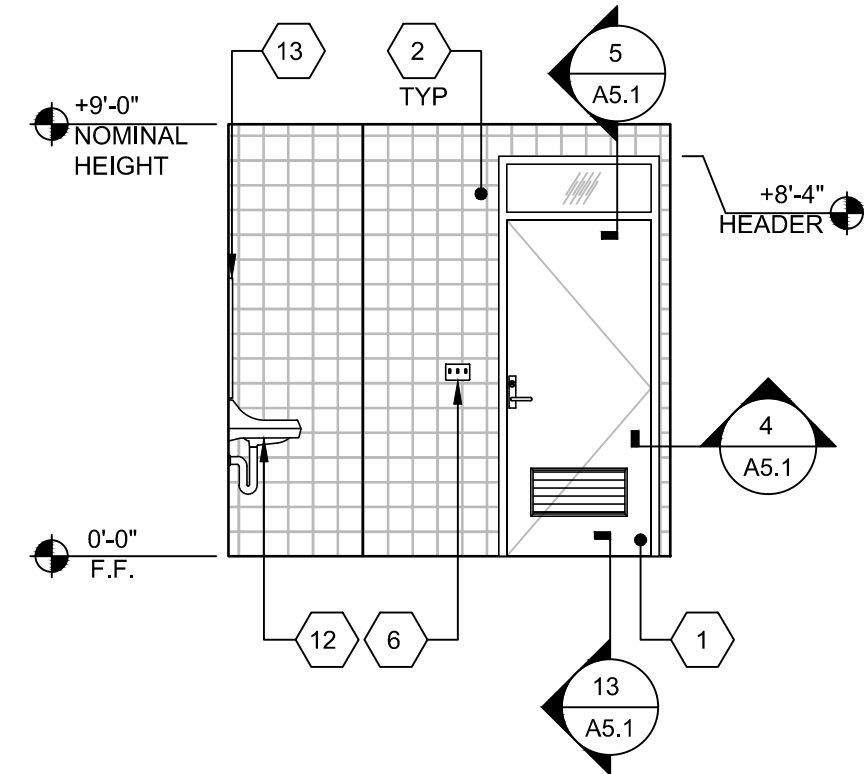
REVISIONS


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 08/10/21  
PROJECT NO: 1613-20

SHEET TITLE:  
**INTERIOR ELEVATIONS @ TYP. CLASSROOM**

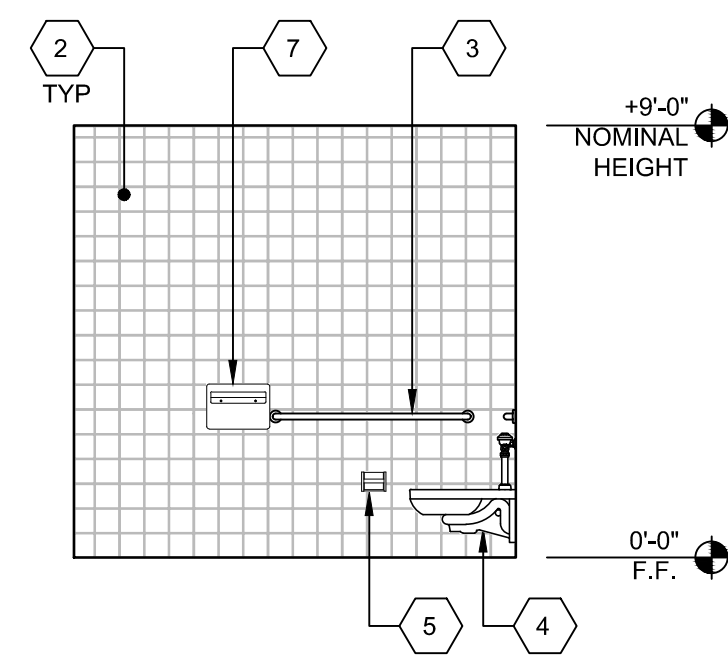
SHEET NUMBER:  
**A4.0B**

BID SET 10/01/2021



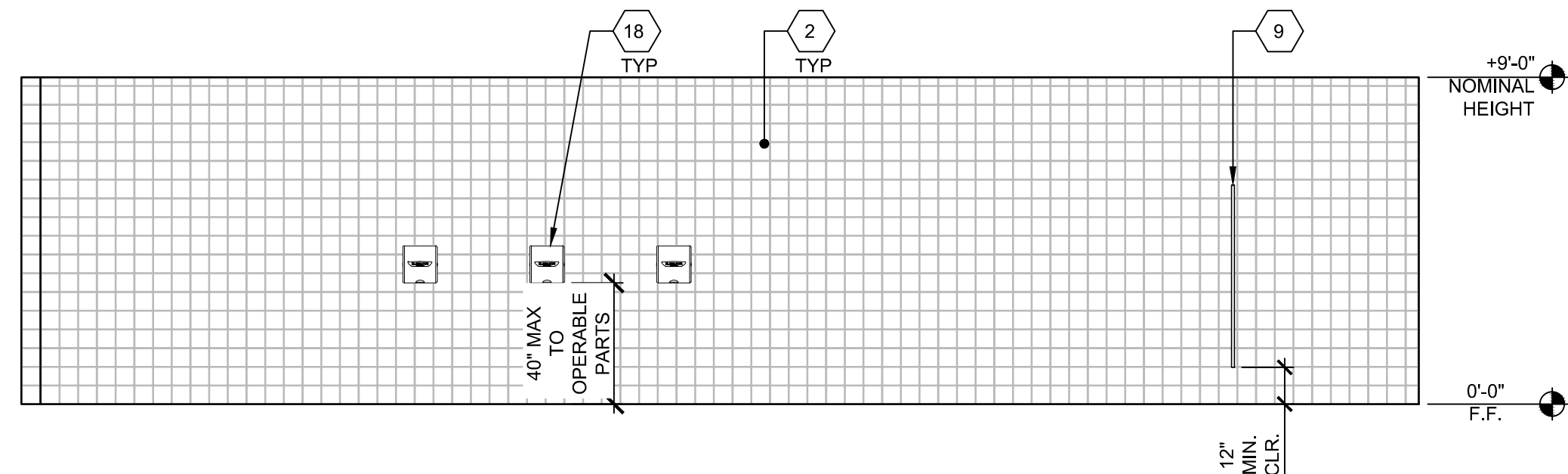
**BOYS RESTROOM ELEVATION**  
AGE RANGE: 9-12

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



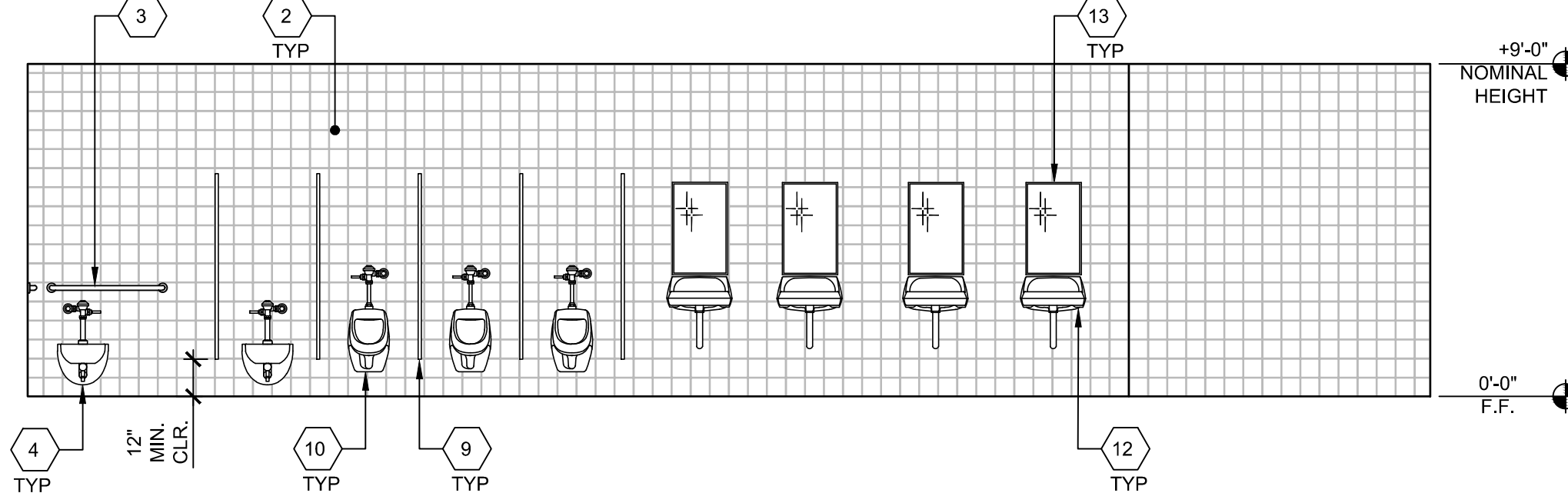
**BOYS RESTROOM ELEVATION**  
AGE RANGE: 9-12

SCALE: 1/4" = 1'-0" 2



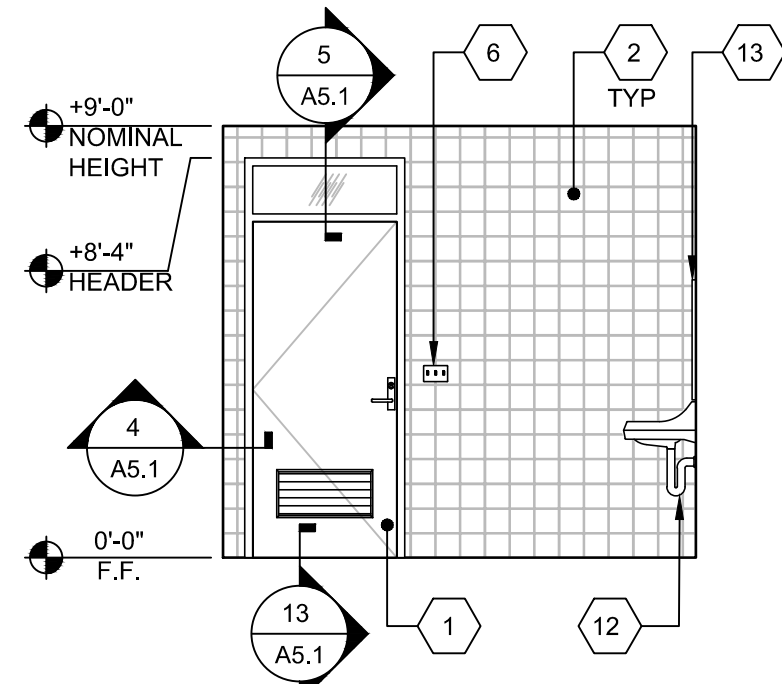
**BOYS RESTROOM ELEVATION**  
AGE RANGE: 9-12

SCALE: 1/4" = 1'-0" 3



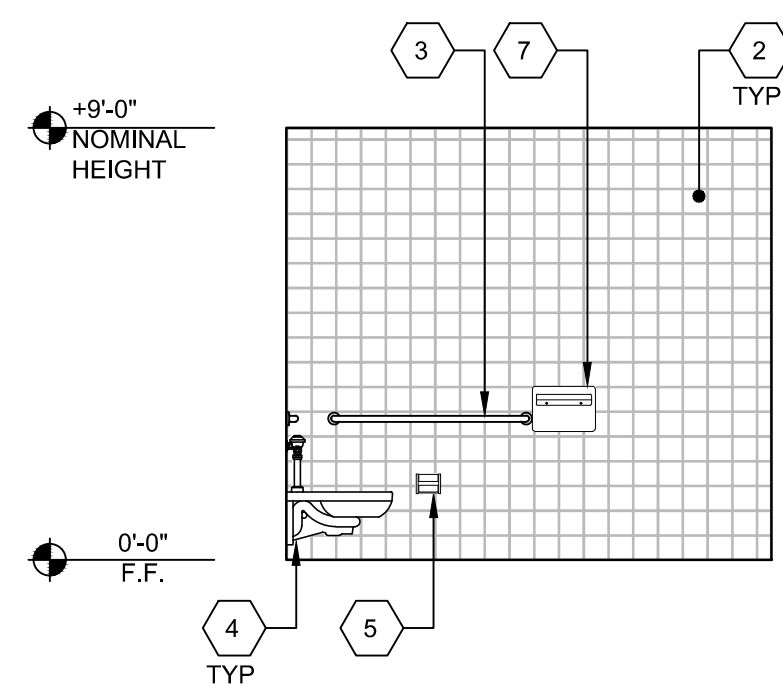
**BOYS RESTROOM ELEVATION**  
AGE RANGE: 9-12

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



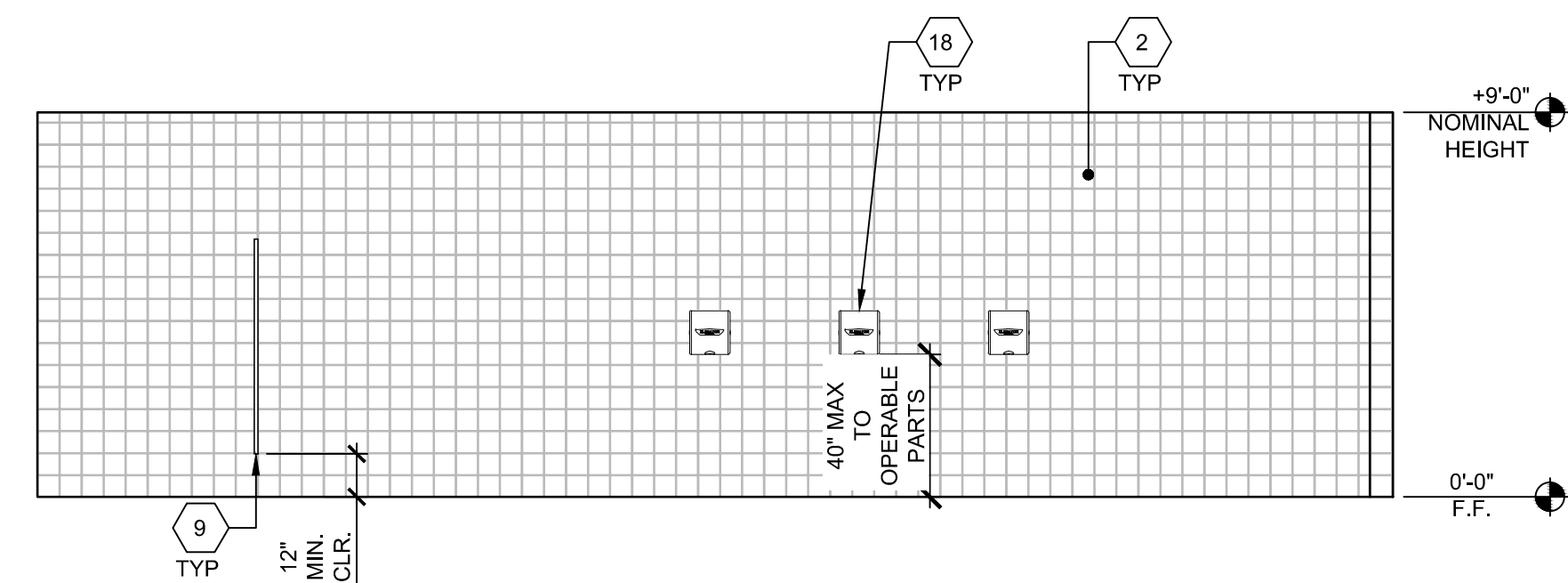
**GIRLS RESTROOM ELEVATION**  
AGE RANGE: 9-12

SCALE: 1/4" = 1'-0" 5



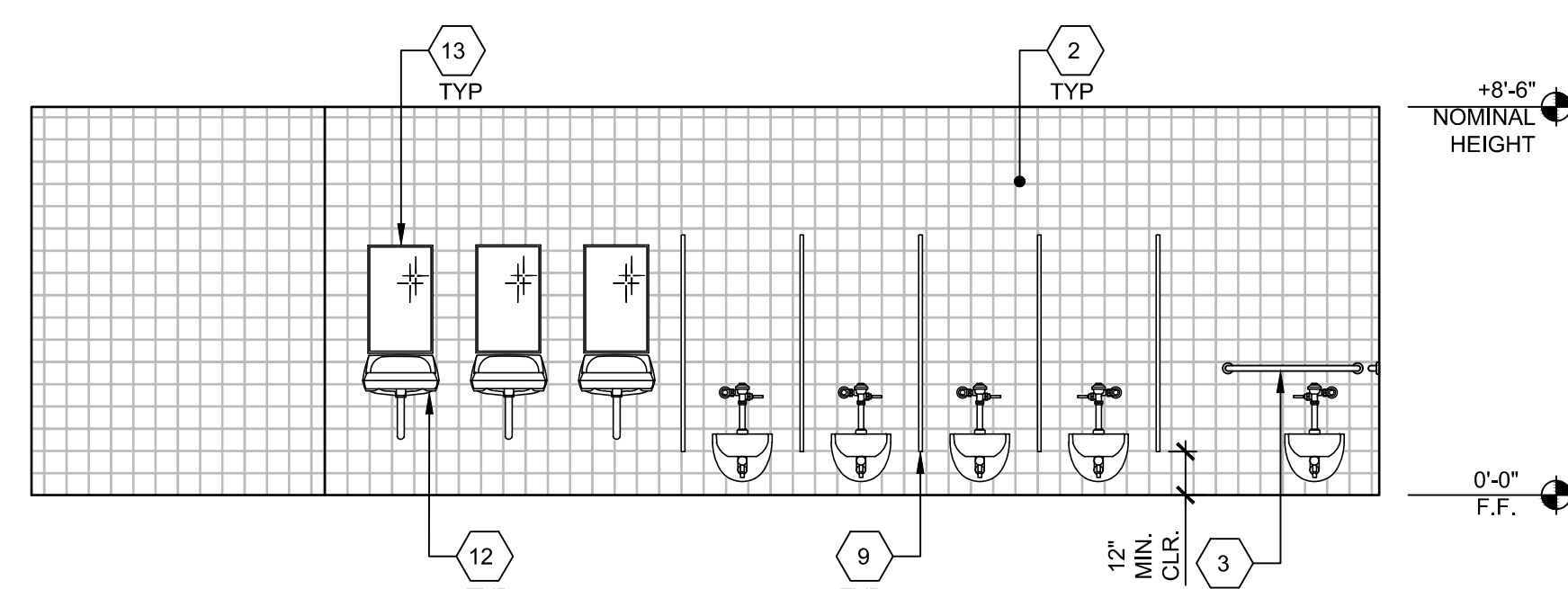
**GIRLS RESTROOM ELEVATION**  
AGE RANGE: 9-12

SCALE: 1/4" = 1'-0" 6



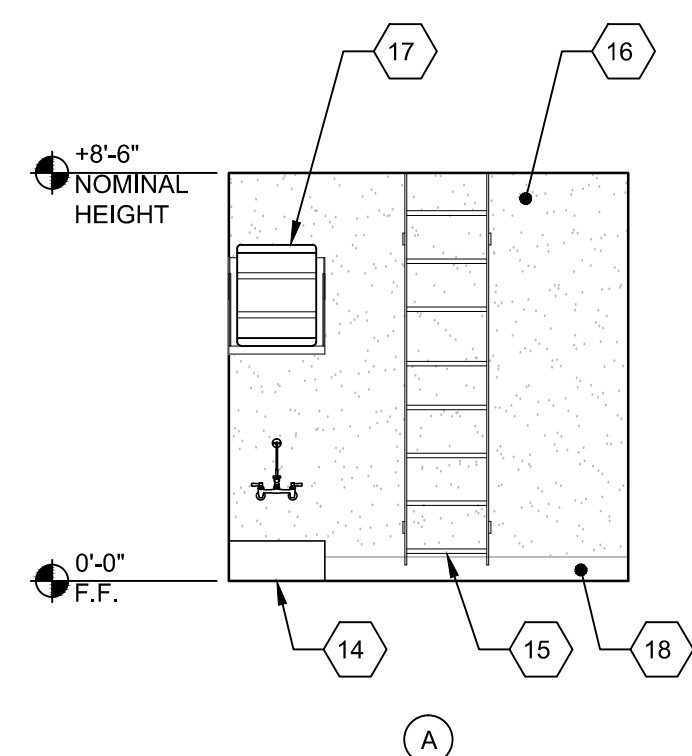
**GIRLS RESTROOM ELEVATION**  
AGE RANGE: 9-12

SCALE: 1/4" = 1'-0" 7

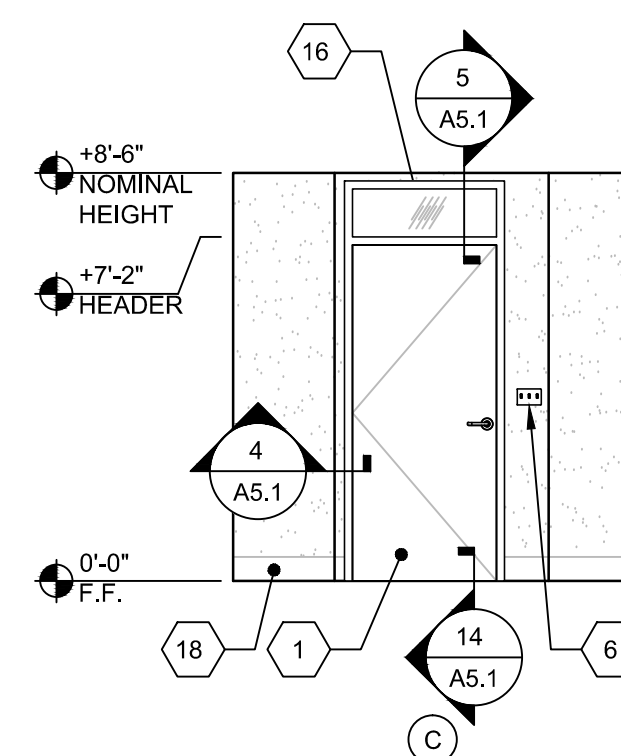
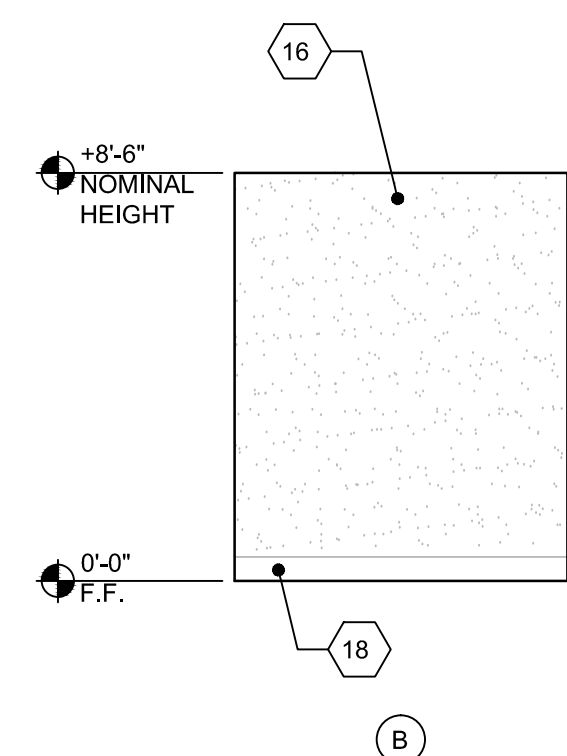


**GIRLS RESTROOM ELEVATION**  
AGE RANGE: 9-12

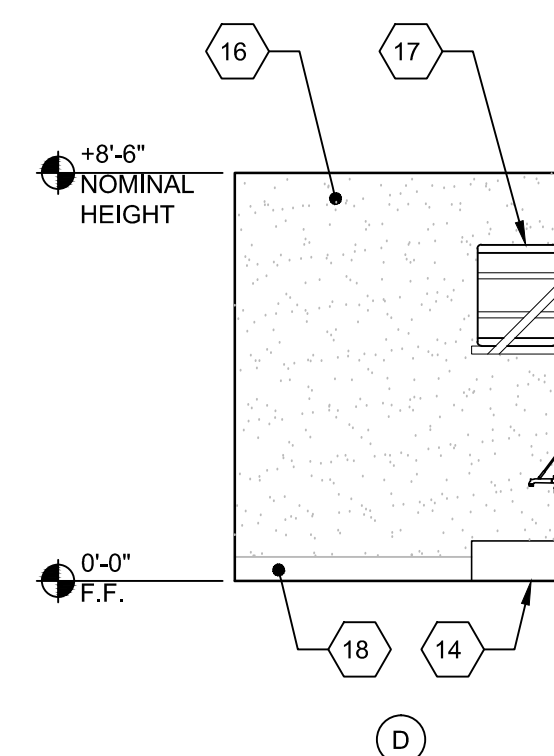
SCALE: 1/4" = 1'-0" 8



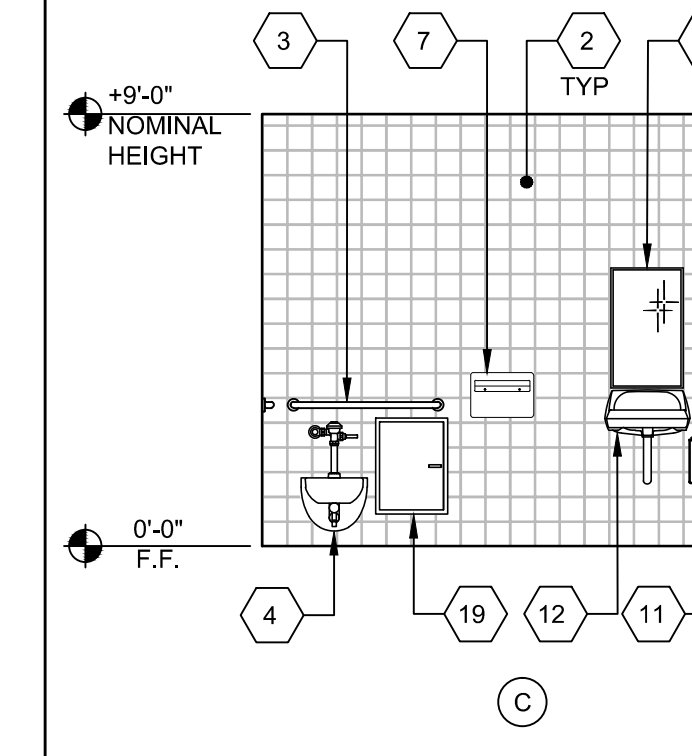
**JANITOR ROOM ELEVATION**



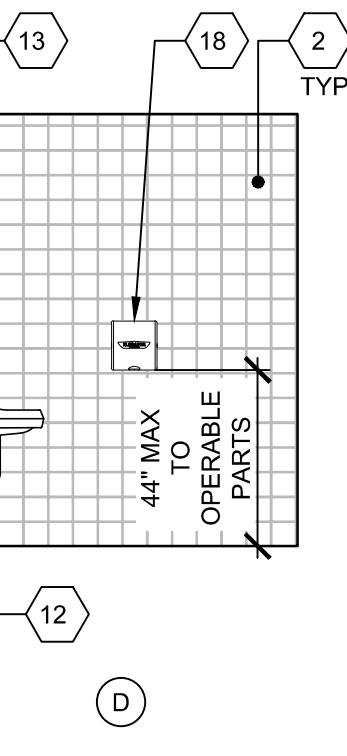
**STAFF RESTROOM ELEVATION**



SCALE: 1/4" = 1'-0" 10



**STAFF RESTROOM ELEVATION**



SCALE: 1/4" = 1'-0" 11

- 1 TYPICAL DOOR
- 2 CERAMIC TILE
- 3 GRAB BAR 36" LENGTH - SEE DETAIL 3/A7.2
- 4 ACCESSIBLE TOILET - SEE DETAIL 14/P2.0
- 5 TOILET PAPER DISPENSER (BRADLEY MODEL 508-32, OR EQ.)
- 6 LIGHT SWITCH - SEE ELECTRICAL SHEETS
- 7 TOILET SEAT COVER DISPENSER (BOBRICK MODEL B-221, OR EQUAL) (BY OTHERS)
- 8 TYP. GFCI OUTLET - SEE ELECTRICAL SHEETS
- 9 TOILET PARTITION
- 10 ACCESSIBLE URINAL - SEE DETAIL 15/P2.0
- 11 INSTANT WATER HEATER
- 12 ACCESSIBLE LAVATORY - SEE DETAIL 17/P2.0
- 13 TYP. MIRROR (19# MAX. WEIGHT) - SEE DETAIL 17/P2.0
- 14 MOP SINK
- 15 ROOF HATCH LADDER
- 16 FRP
- 17 WATER HEATER
- 18 HAND DRYER - XLERATOR MODEL XL-SB WITH ADA RECESSED KIT 40502
- 19 ACCESS PANEL

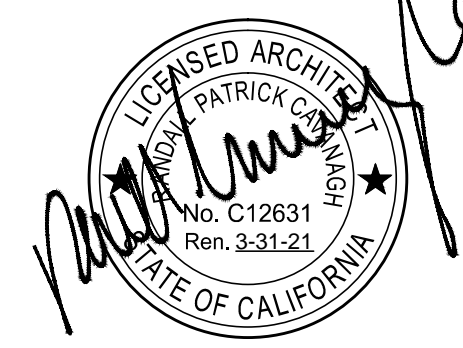
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**SET NAME**  
(2) 72'x40' 2 STORY  
CLASSROOM BUILDINGS

**SITE SPECIFIC PROJECT NAME**  
GLENDALE USD  
GLENOAKS  
ELEMENTARY SCHOOL

**MANUFACTURER PROFESSIONAL OF RECORD**



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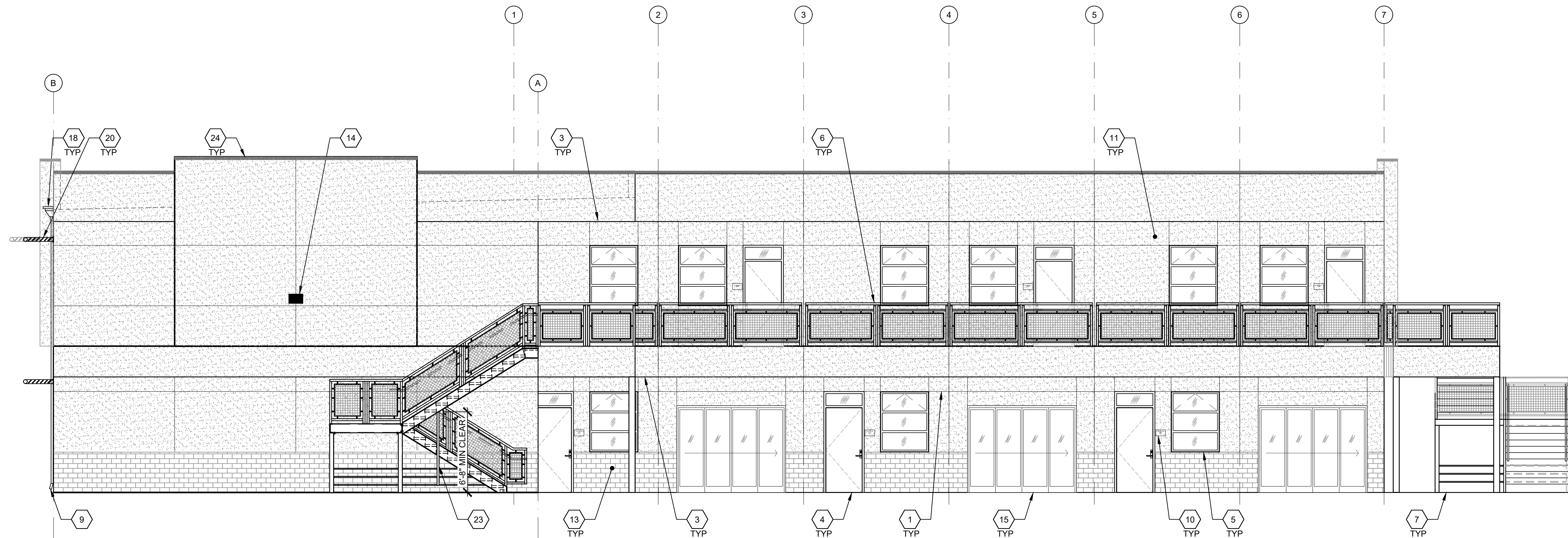

DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 12/04/20  
PROJECT NO: 1614-20

**INTERIOR ELEVATIONS  
RESTROOM**

SHEET NUMBER:

**A4.1**

BID SET 10/01/2021



EXTERIOR ELEVATION - FRONT

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



EXTERIOR ELEVATION - LEFT

SCALE: 3/16" = 1'-0" 2

- 1 CONTROL JOINT (LOCATION MAY VARY)
- 2 NOT USED
- 3 OVERHANG - SEE ROOF PLAN, STRUCTURAL
- 4 TYP. EXTERIOR DOOR - SEE SCHEDULE ON SHEET N4.0
- 5 WINDOW - SEE SCHEDULE ON SHEET N4.0
- 6 GUARDRAIL & RAILING - SEE STRUCTURAL SHEET S11.2
- 7 STAIRS WHERE OCCURS - SEE FLOOR PLANS AND STRUCTURAL SHEET S11.0.
- 8 NOT USED
- 9 DOWNSPOUT - SEE DETAIL 10 & 15/A5.1
- 10 ROOM ID AND ISA SIGNAGE (BY OTHERS) SEE DETAILS 5 & 9/N4.0 - TYP.
- 11 STUCCO FINISH
- 12 BALCONY WALKWAY PER SHEET S10.0
- 13 THIN BRICK
- 14 EXTERIOR LIGHT - SEE ELECTRICAL PLANS
- 15 NANAWALL
- 16 NOT USED
- 17 NOT USED
- 18 SCUPPER - SEE DETAIL 6/A2.
- 19 MODULAR IDENTIFICATION TAG @ +90" A.F.F.
- 20 SUNSHADE AWNING
- 21 PARAPET
- 22 ROOF LINE
- 23 PROVIDE CANE DETECTABLE RAILING WHERE VERTICAL CLEARANCE IS LESS THAN 80" (PER C.B.C. SECTION 11B-307.4) - PER 12/A5.1
- 24 BUMP OUT WALLS

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SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

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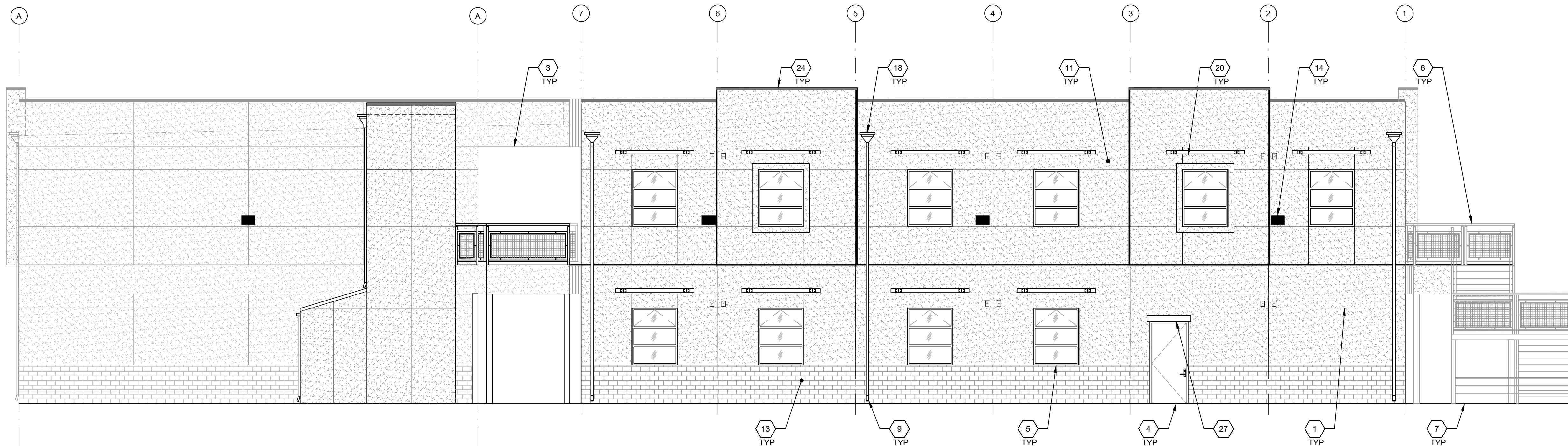
DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 03/15/21  
PROJECT NO: 1613-20

SHEET TITLE:  
**EXTERIOR ELEVATIONS**

SHEET NUMBER:  
**A5.0A**

KEYNOTES

BID SET 10/01/2021



- 1 CONTROL JOINT (LOCATION MAY VARY)
- 2 NOT USED
- 3 OVERHANG - SEE ROOF PLAN, STRUCTURAL
- 4 TYP. EXTERIOR DOOR - SEE SCHEDULE ON SHEET N4.0
- 5 WINDOW - SEE SCHEDULE ON SHEET N4.0
- 6 GUARDRAIL & RAILING - SEE STRUCTURAL SHEET S11.2
- 7 STAIRS WHERE OCCURS - SEE FLOOR PLANS AND STRUCTURAL SHEET S11.0.
- 8 NOT USED
- 9 DOWNSPOUT - SEE DETAIL 10 & 15/A5.1
- 10 ROOM ID AND ISA SIGNAGE (BY OTHERS) SEE DETAILS 5 & 9/N4.0 - TYP.
- 11 STUCCO FINISH
- 12 BALCONY WALKWAY PER SHEET S10.0
- 13 THIN BRICK
- 14 EXTERIOR LIGHT - SEE ELECTRICAL PLANS
- 15 NANAWALL
- 16 NOT USED
- 17 NOT USED
- 18 SCUPPER - SEE DETAIL 6/A2.
- 19 MODULAR IDENTIFICATION TAG @ +90° A.F.F.
- 20 SUNSHADE AWNING
- 21 PARAPET
- 22 ROOF LINE
- 23 PROVIDE CANE DETECTABLE RAILING WHERE VERTICAL CLEARANCE IS LESS THAN 80" (PER C.B.C. SECTION 11B-307.4) - PER 12/A5.1
- 24 BUMP OUT WALLS
- 25 NOT USED
- 26 HOSE BIBB - SEE 1/P1.0
- 27 DOOR HOOD PER 20/A5.1

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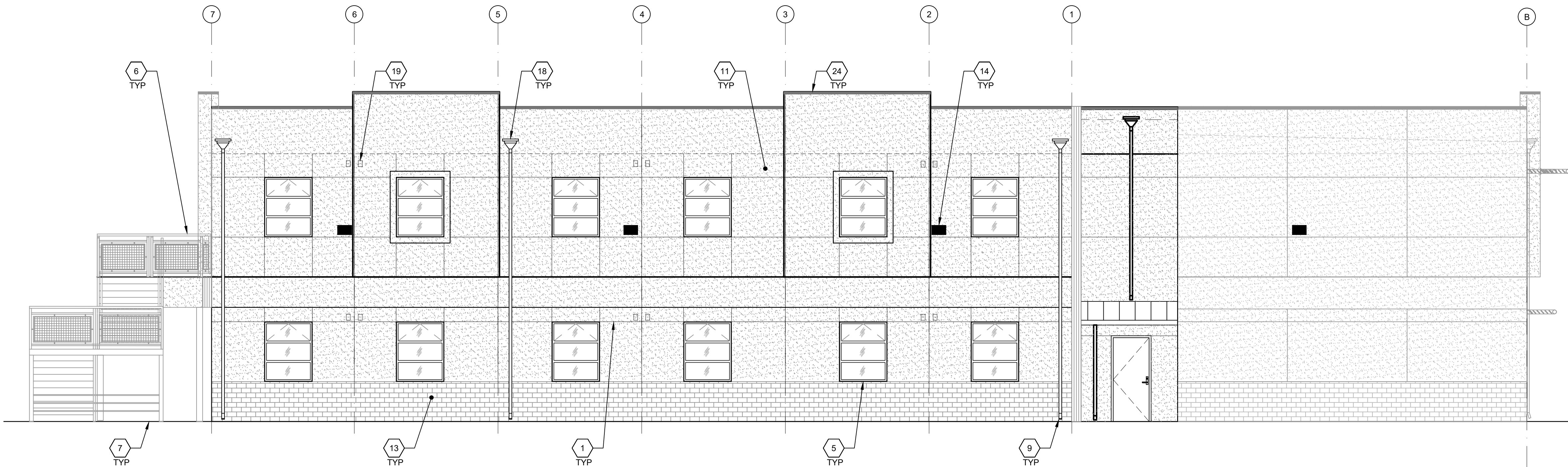
DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 03/15/21  
PROJECT NO: 1613-20

SHEET TITLE:  
**EXTERIOR ELEVATIONS**

SHEET NUMBER:  
**A5.0B**

EXTERIOR ELEVATION - REAR

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



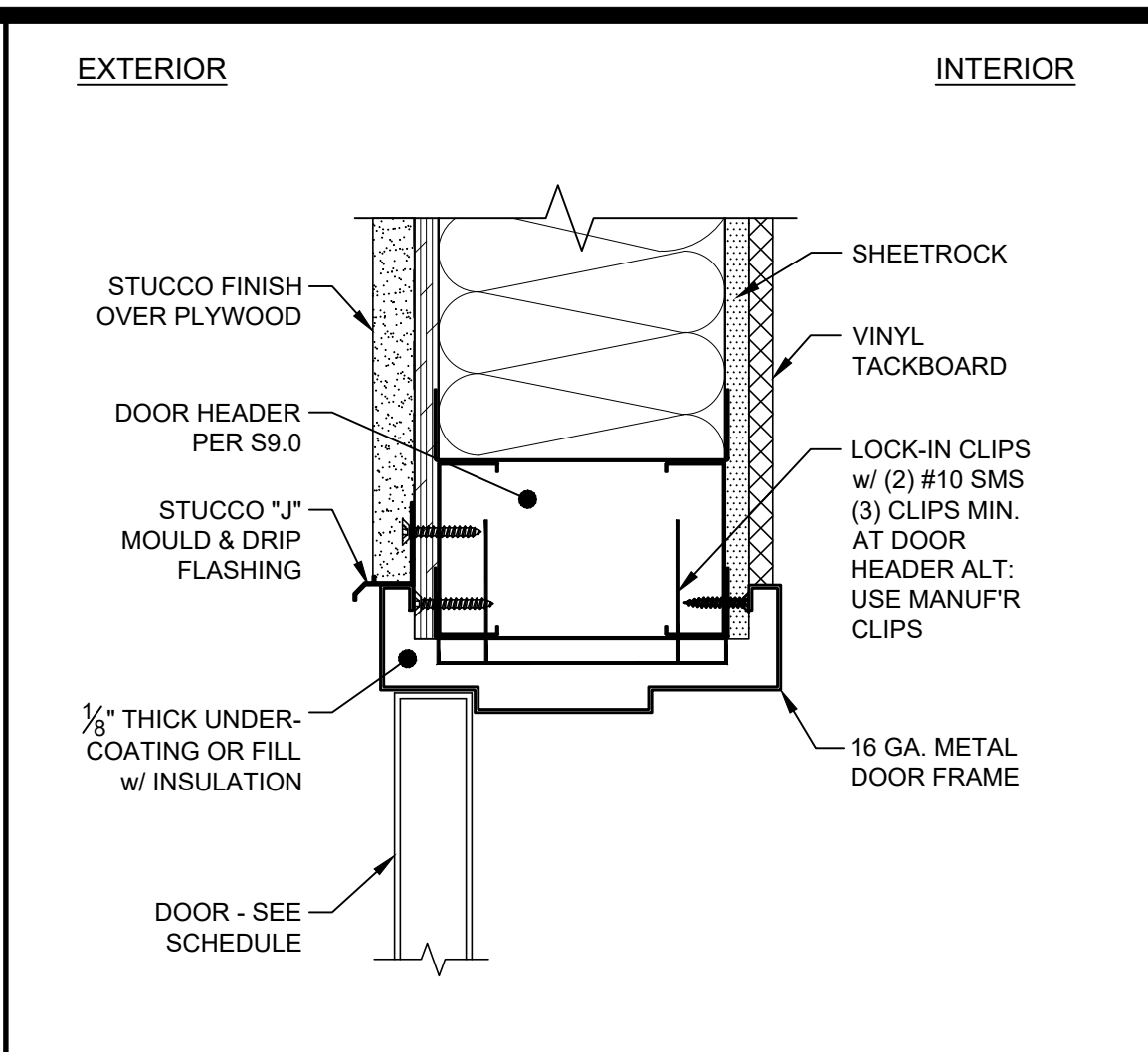
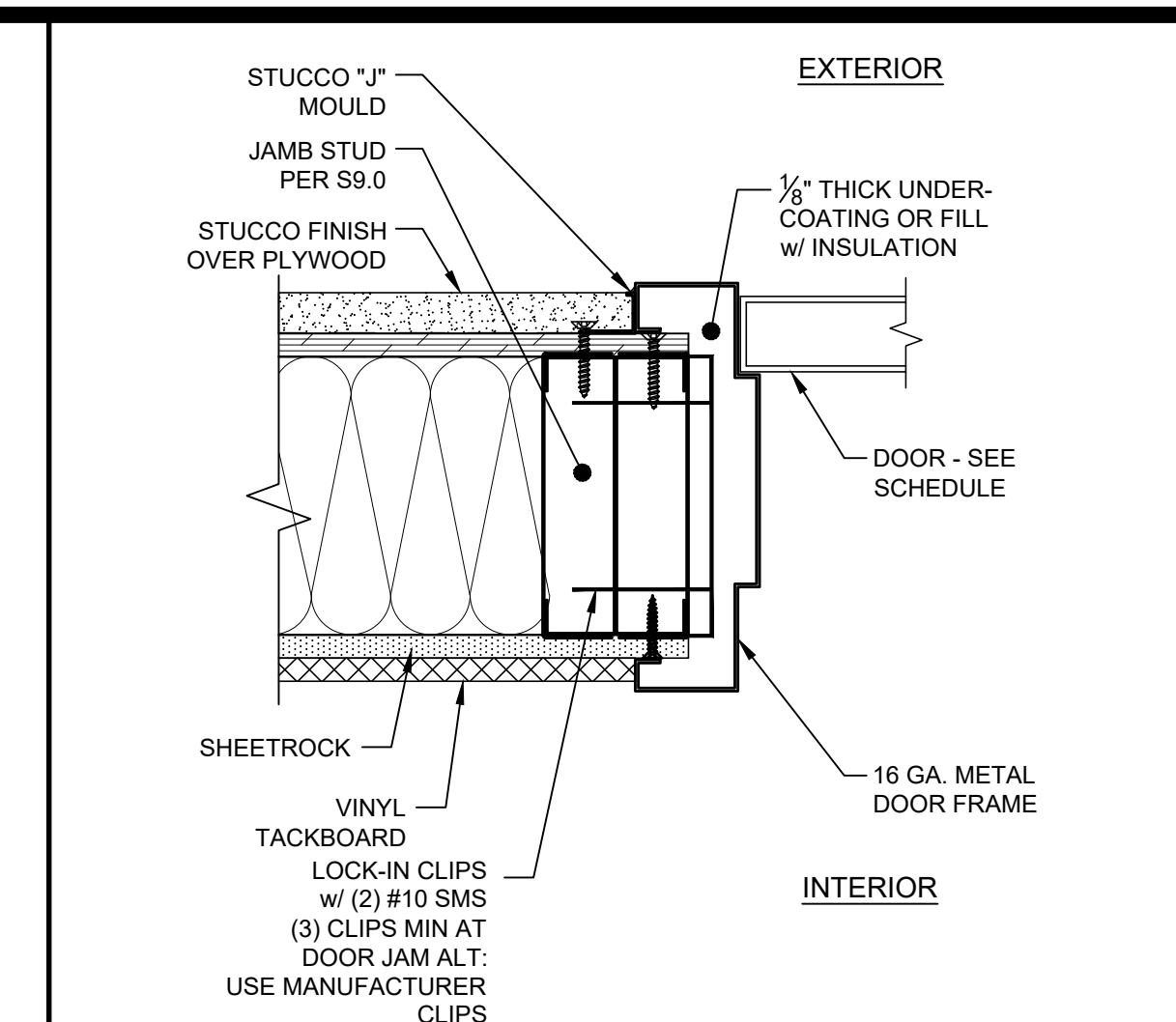
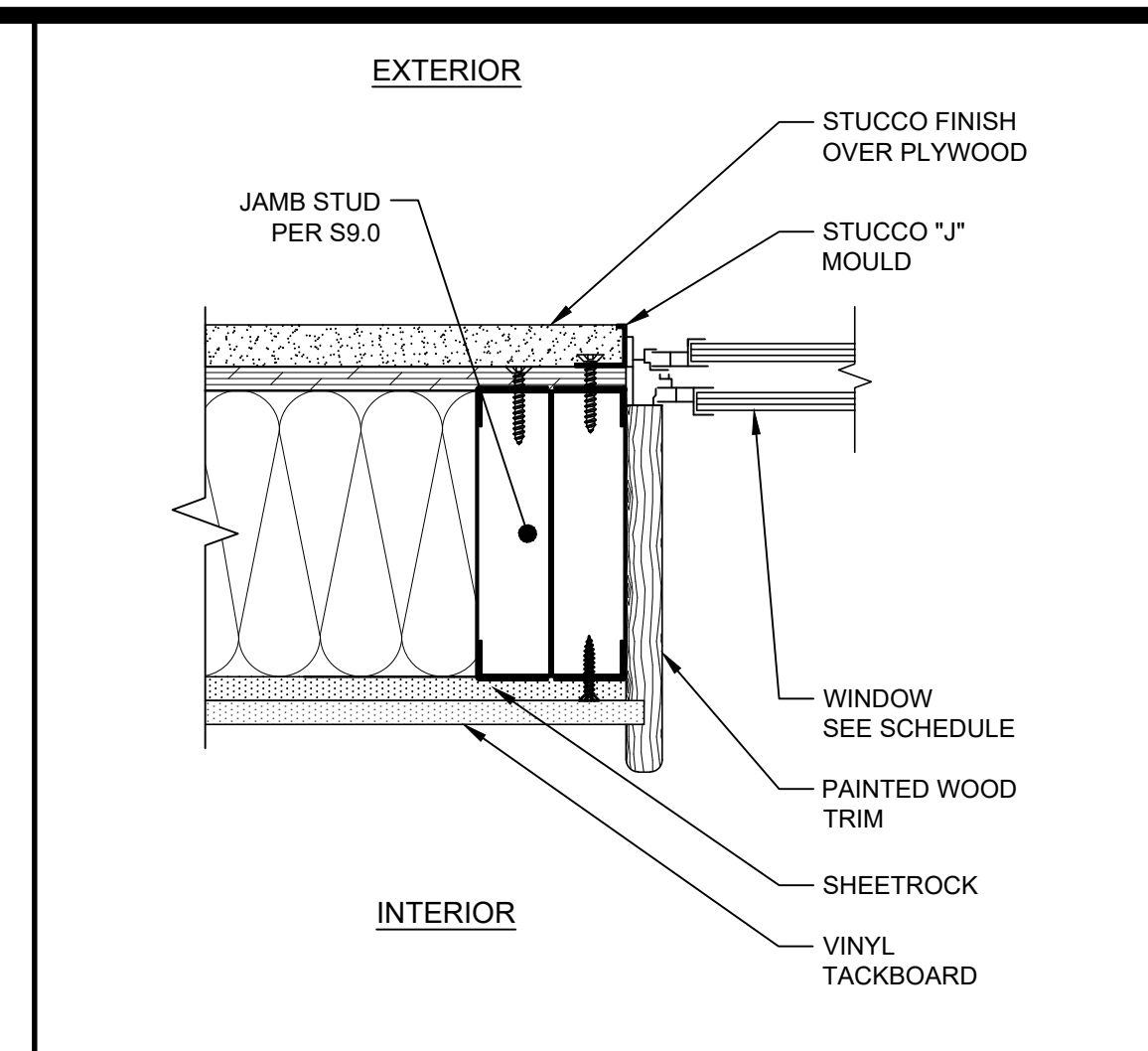
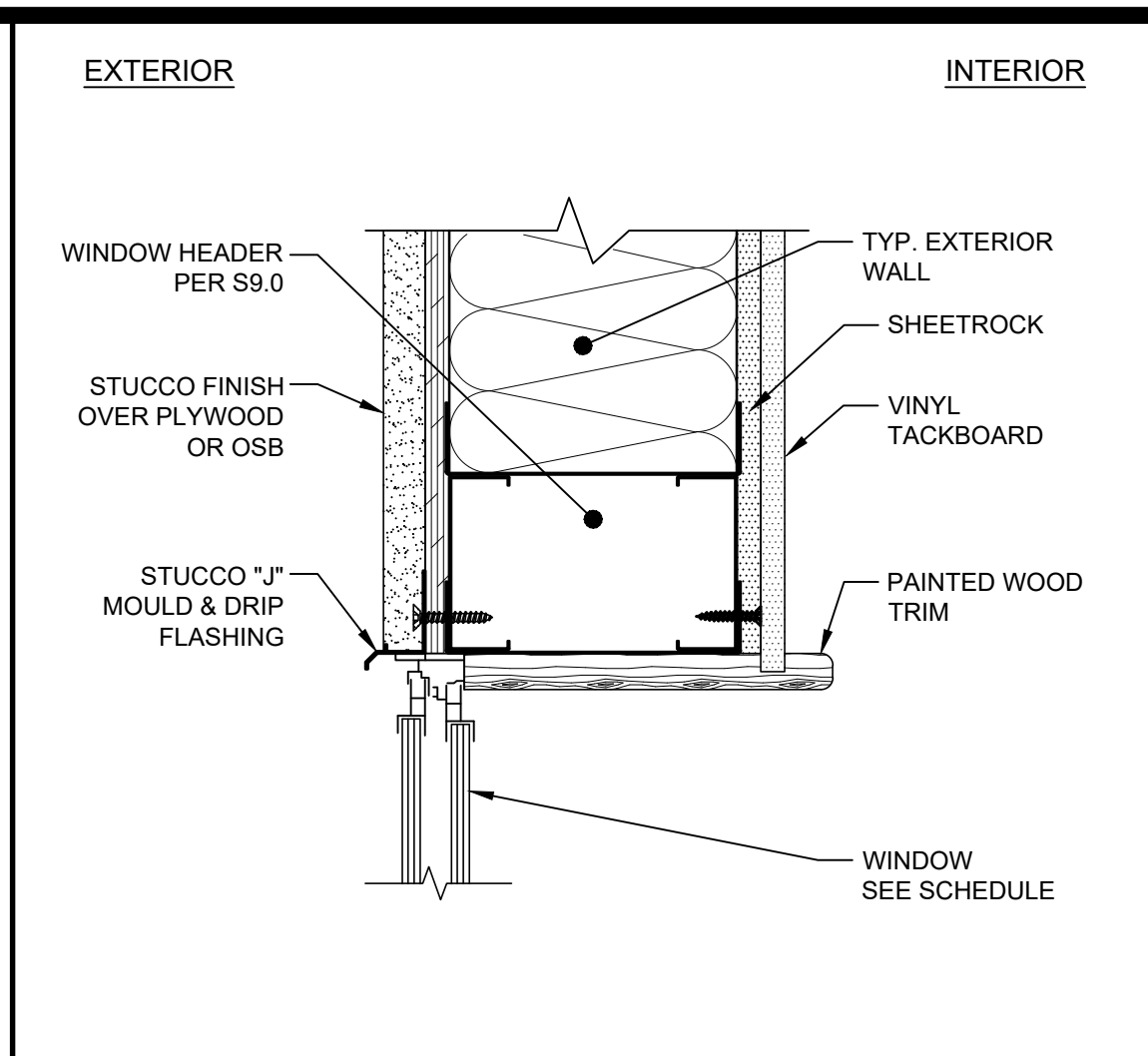
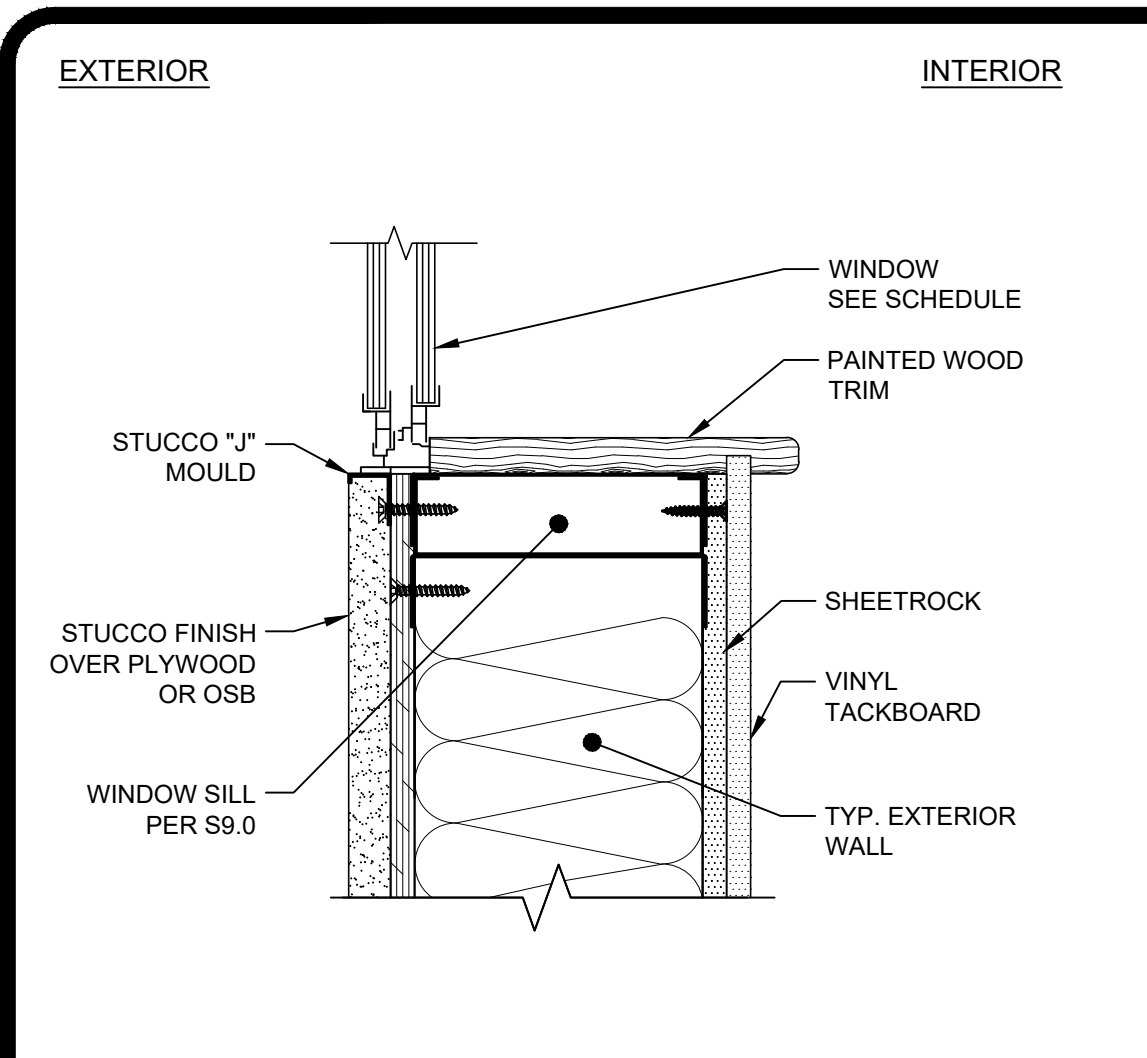
SCALE: 3/16" = 1'-0" 2

EXTERIOR ELEVATION - RIGHT

KEYNOTES

BID SET 10/01/2021





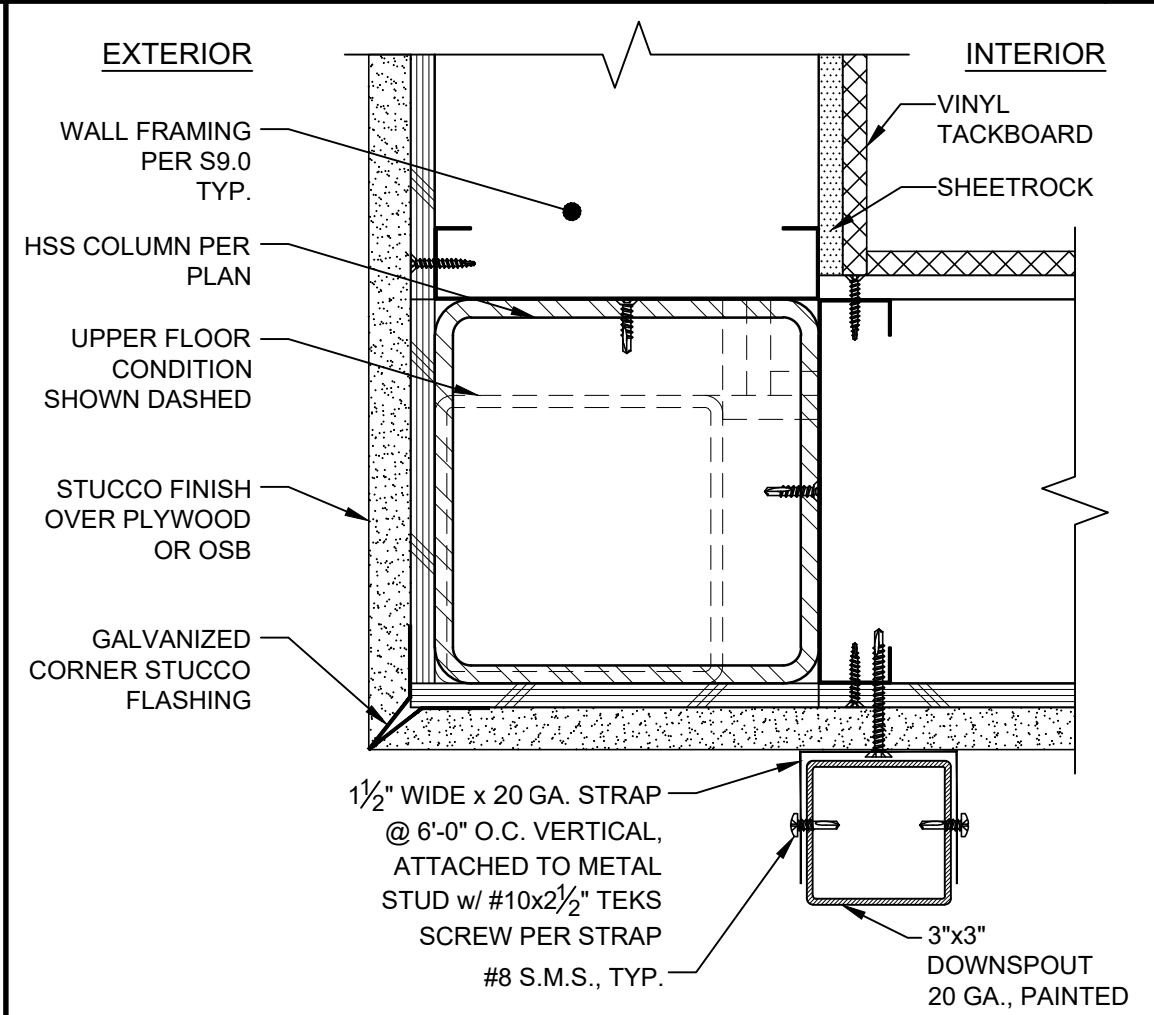
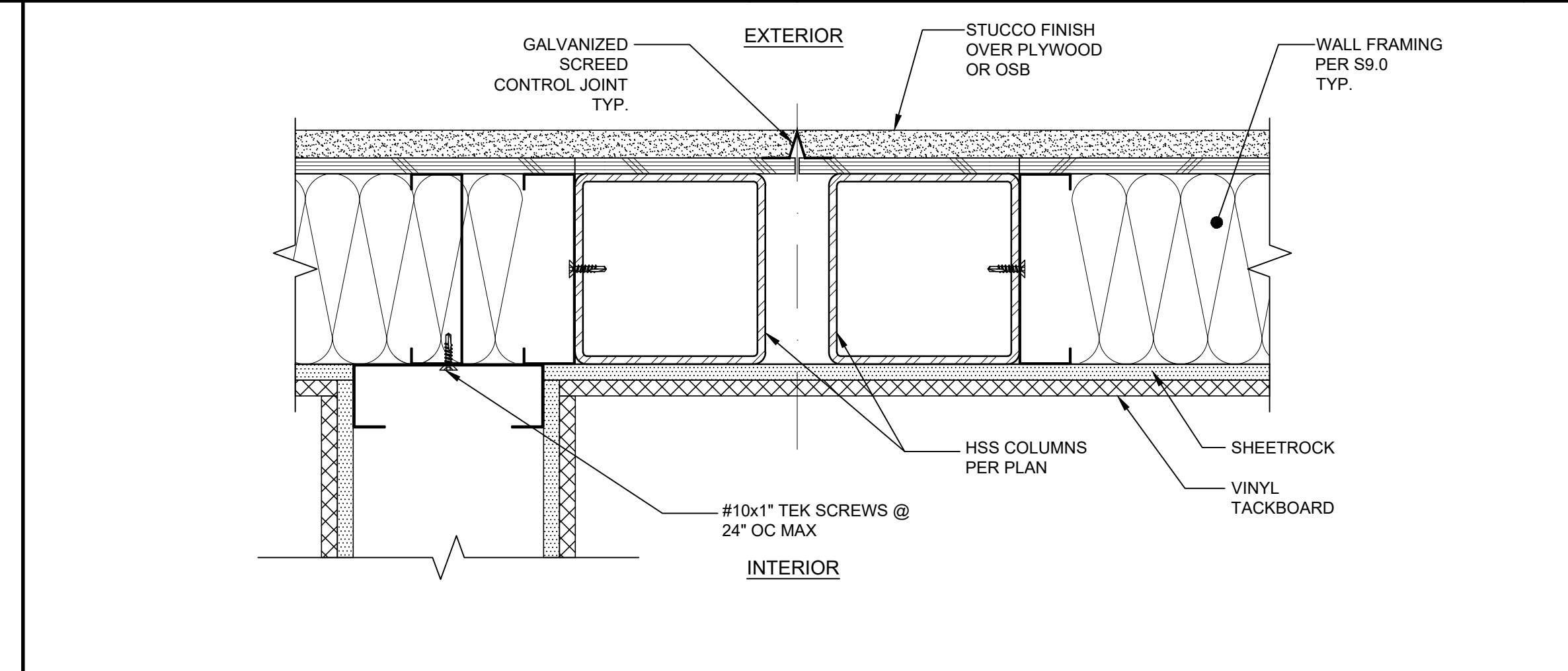
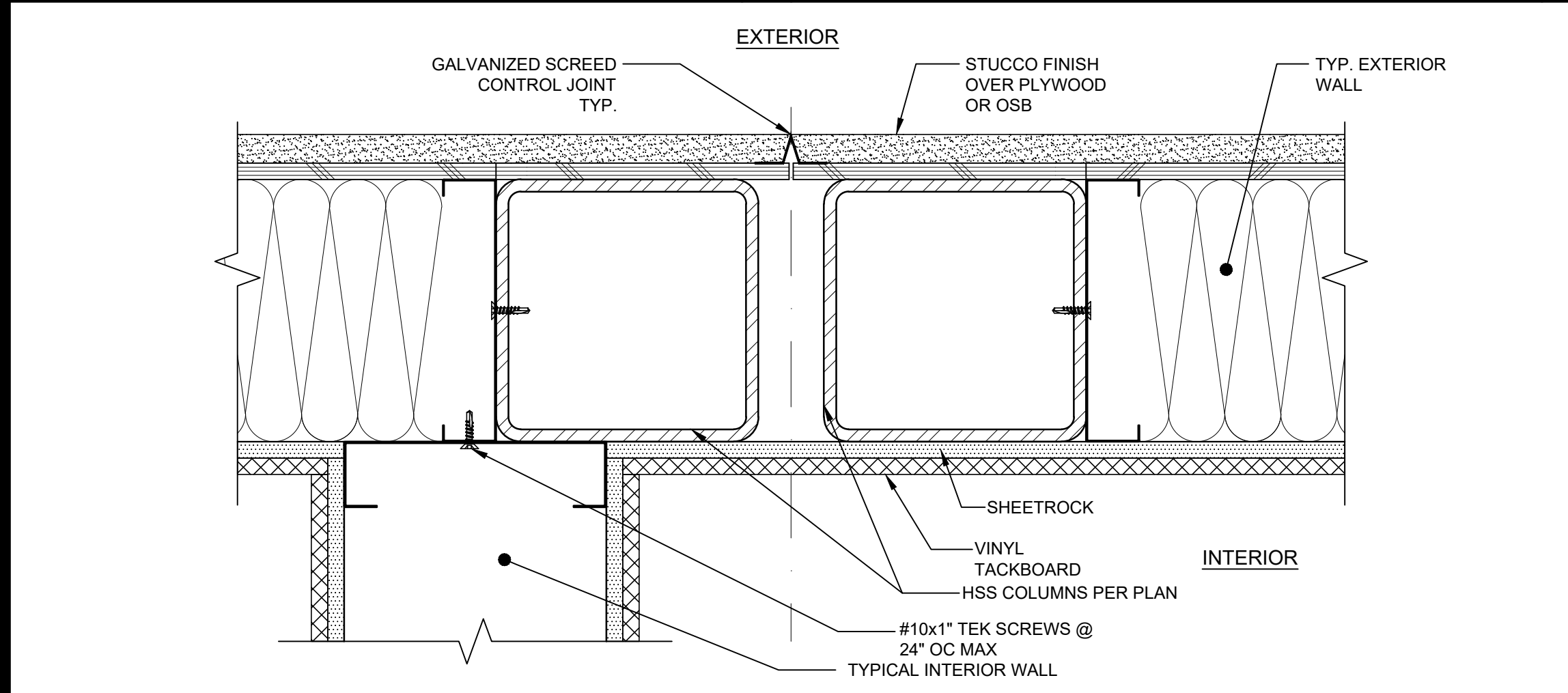
TYPICAL WINDOW SILL SCALE: 3" = 1'-0" 1

TYPICAL WINDOW HEADER SCALE: 3" = 1'-0" 2

TYPICAL WINDOW JAMB SCALE: 3" = 1'-0" 3

TYPICAL DOOR JAMB SCALE: 3" = 1'-0" 4

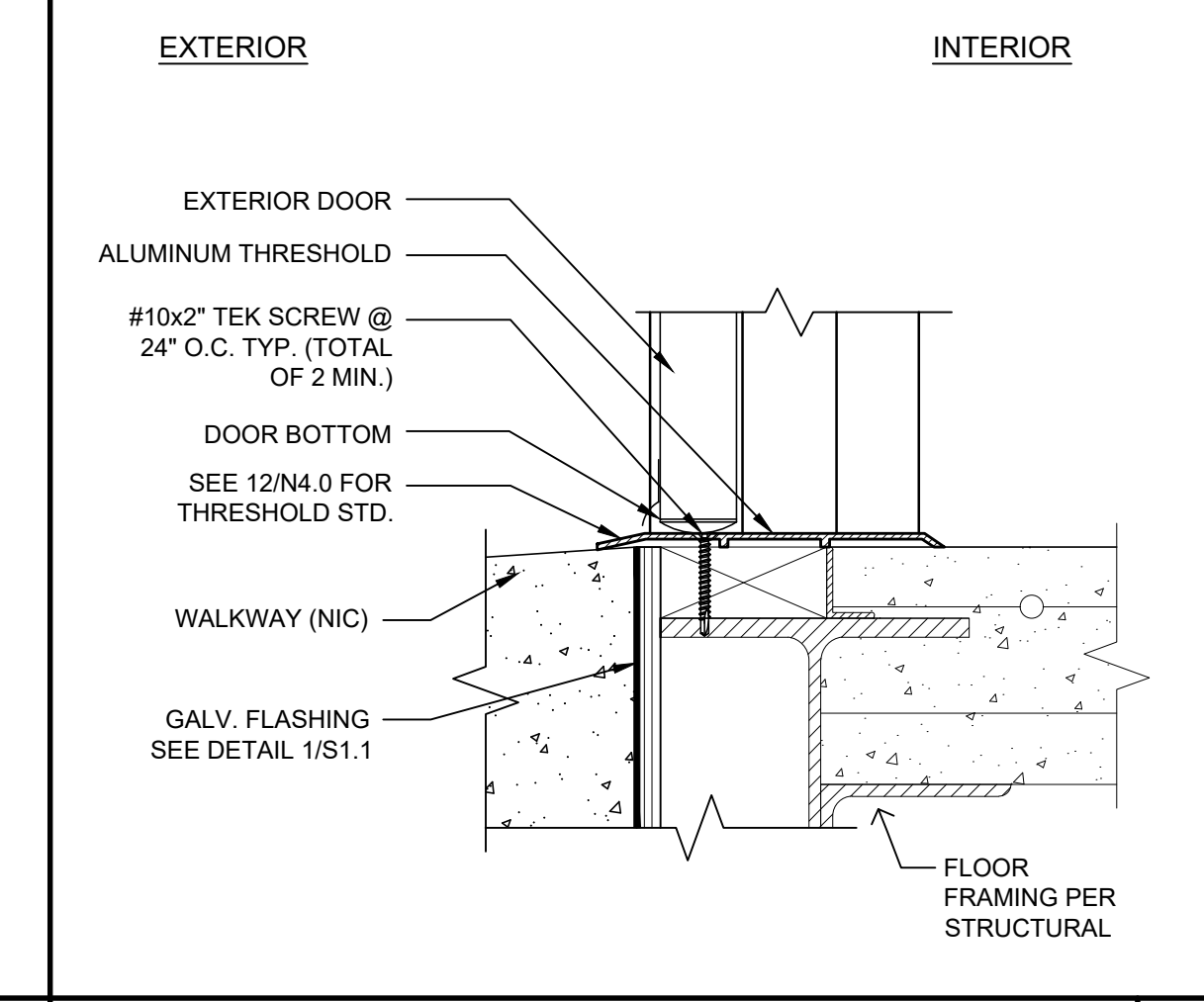
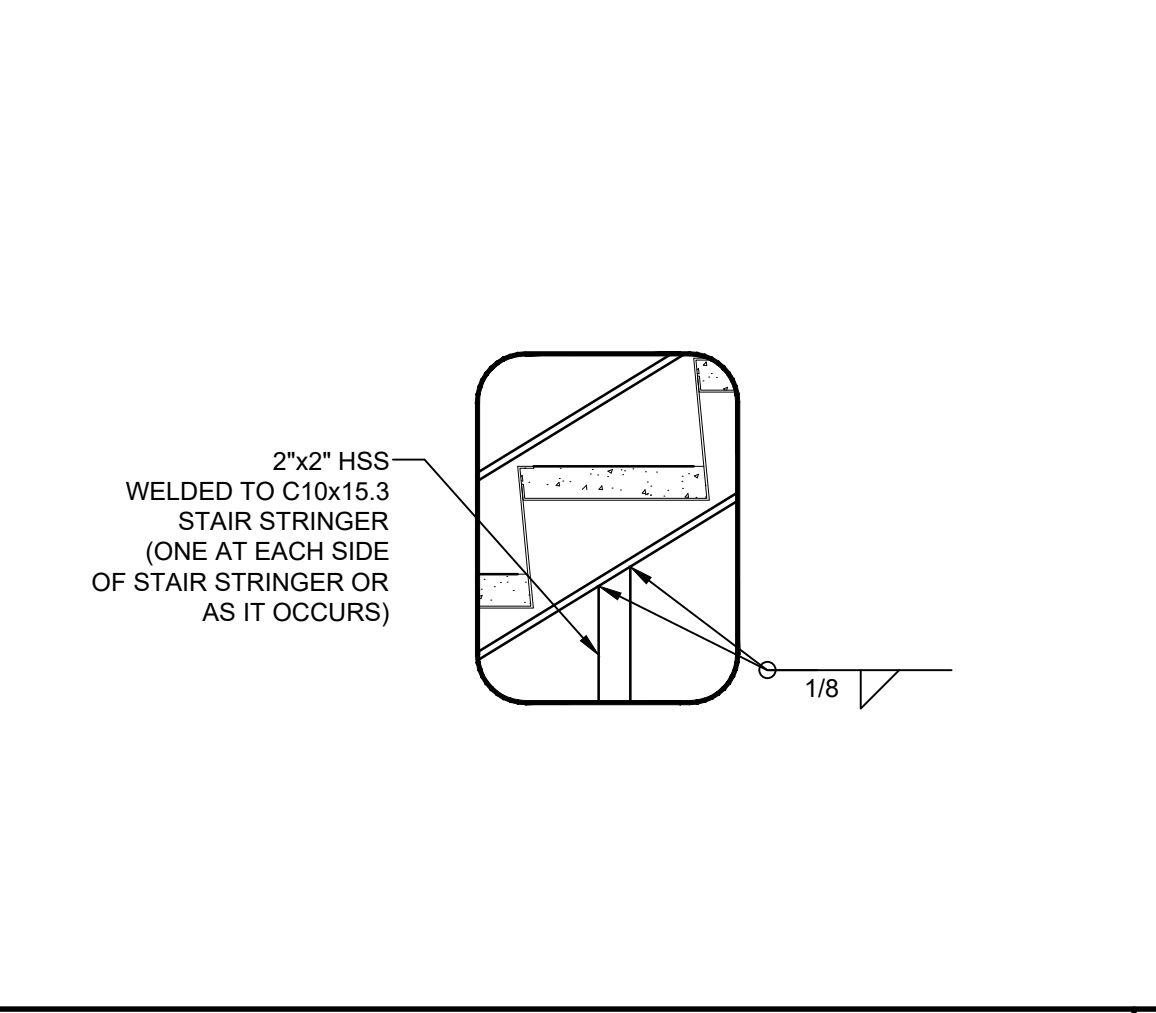
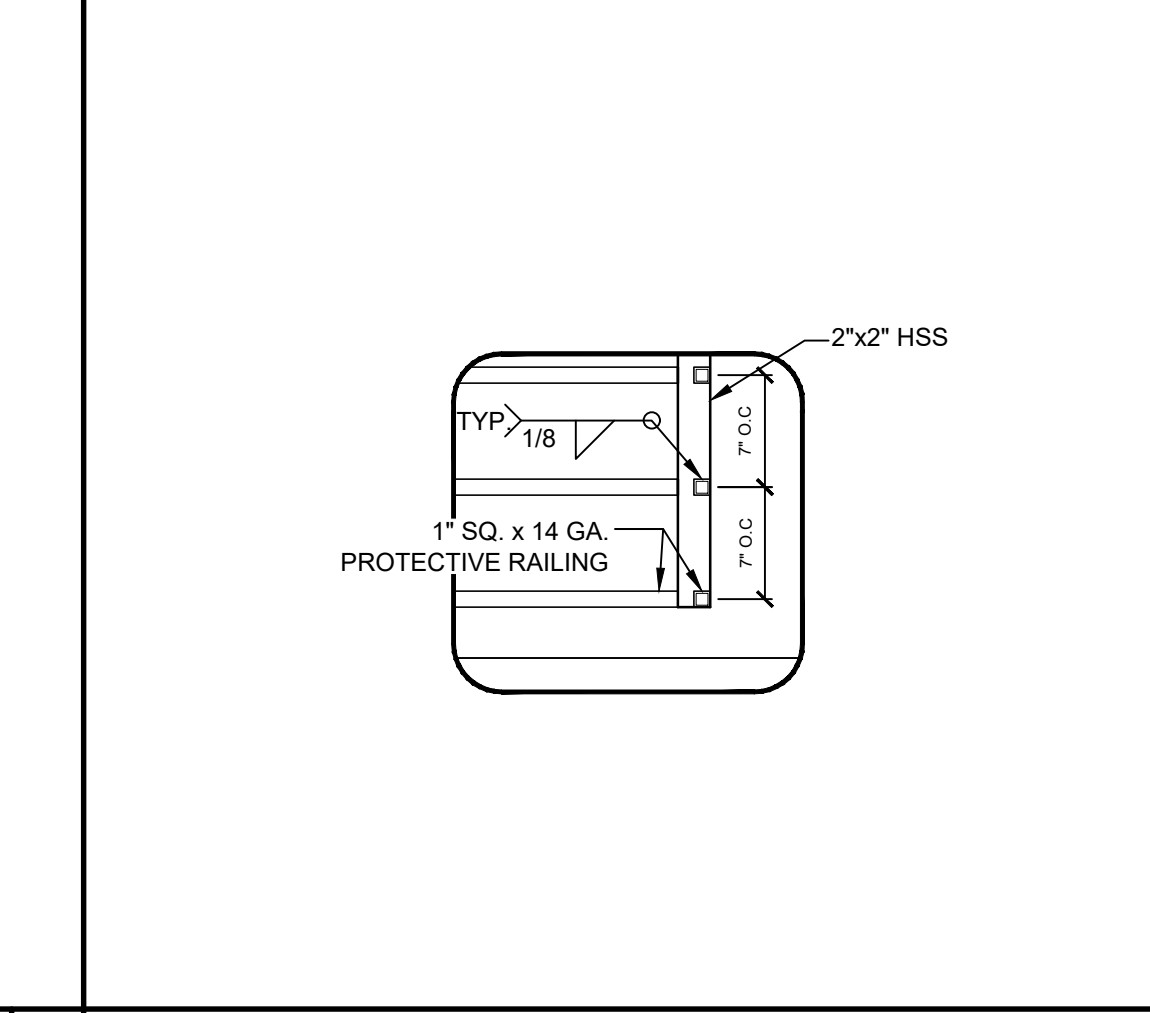
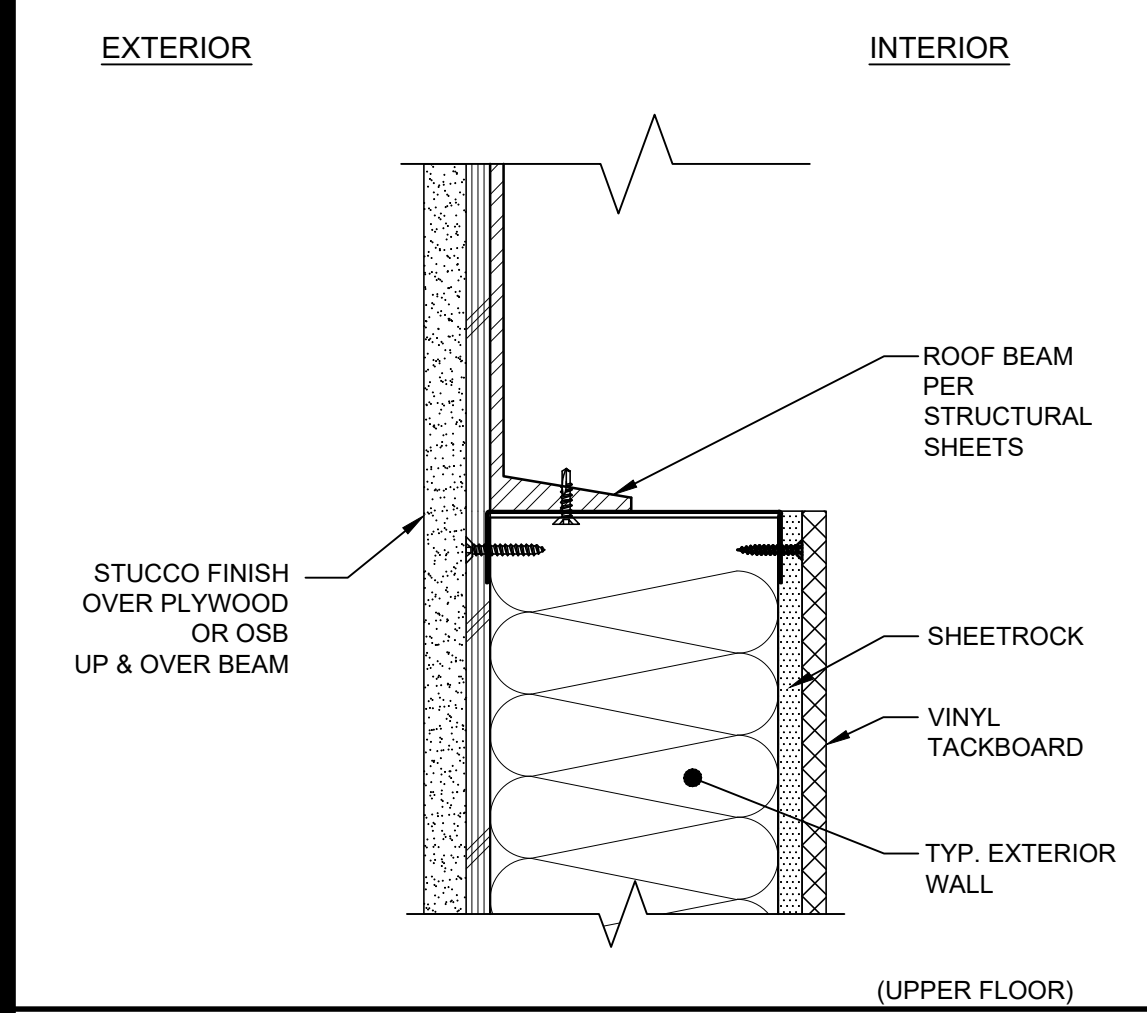
TYPICAL DOOR HEADER SCALE: 3" = 1'-0" 5



MODLINE CLOSURE @ GROUND FLOOR SCALE: 3" = 1'-0" 7

MODLINE CLOSURE @ UPPER FLOOR SCALE: 3" = 1'-0" 9

TYPICAL WALL CORNER AND TYPICAL DOWNSPOUT ATTACHMENT SCALE: 3" = 1'-0" 10

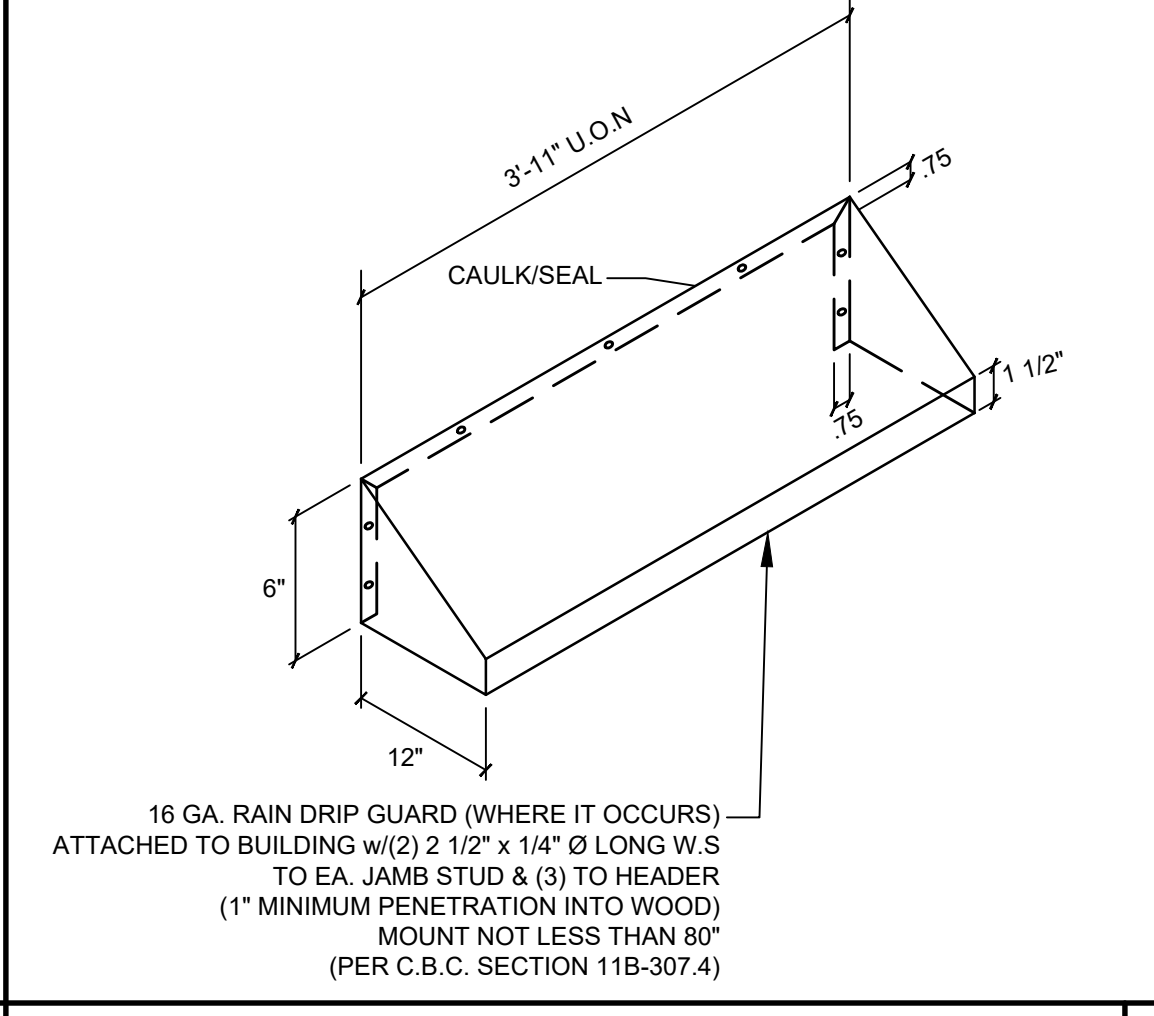
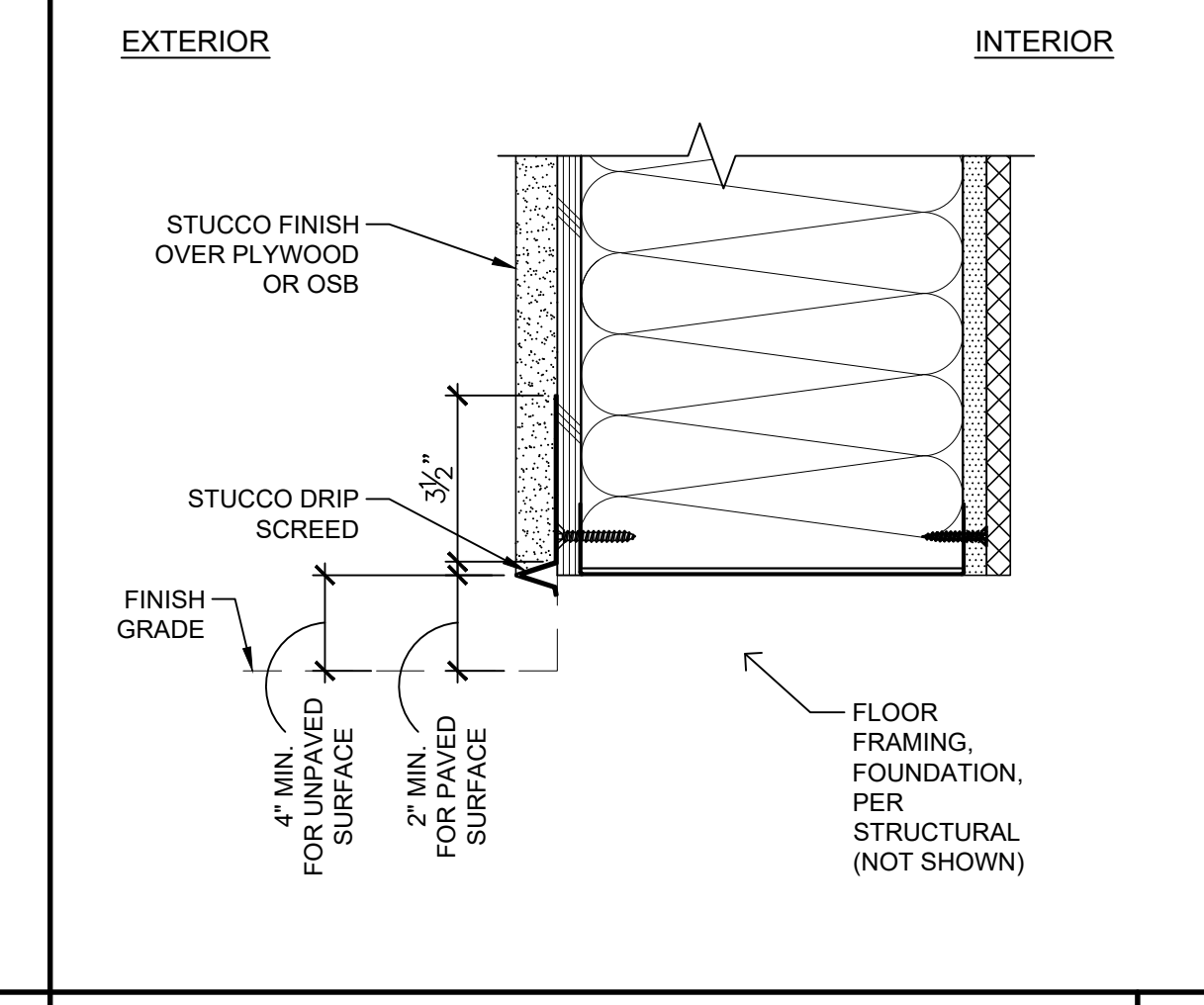
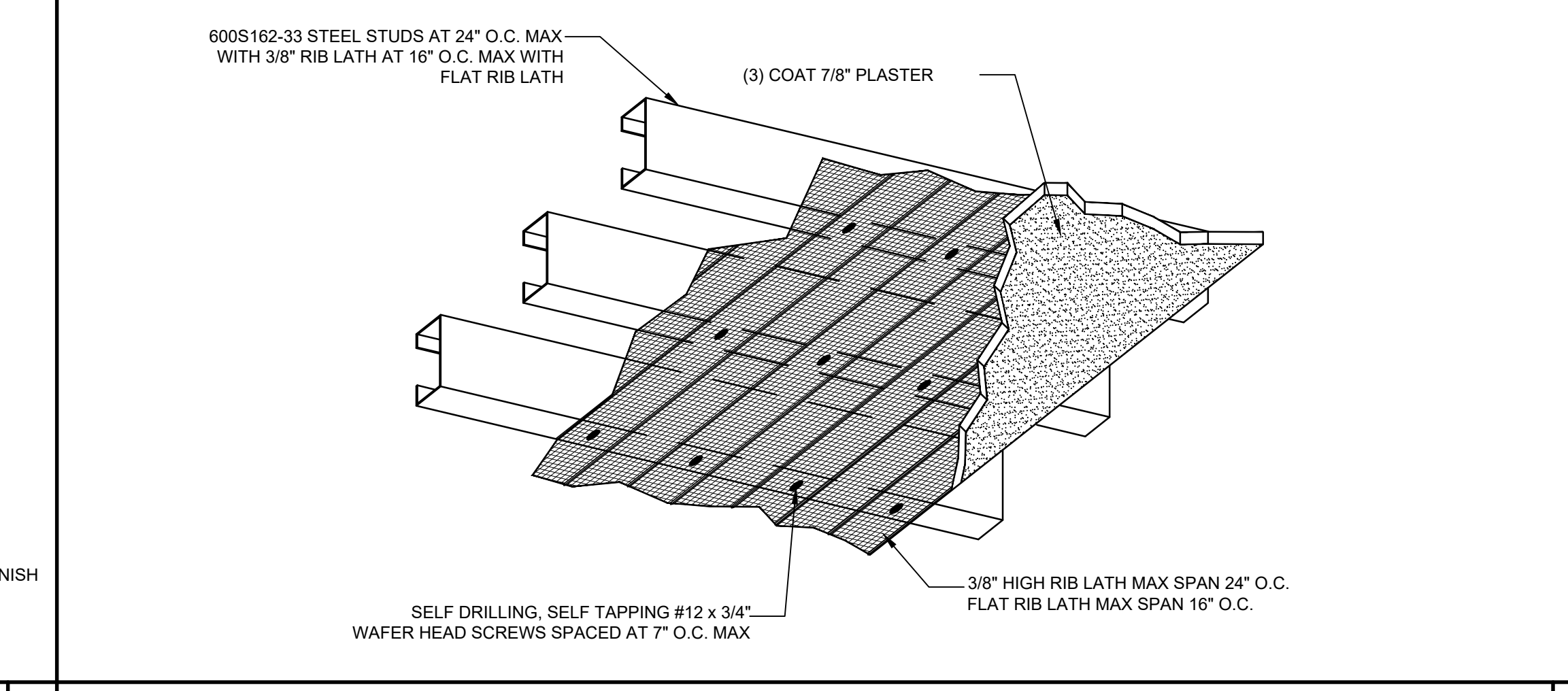
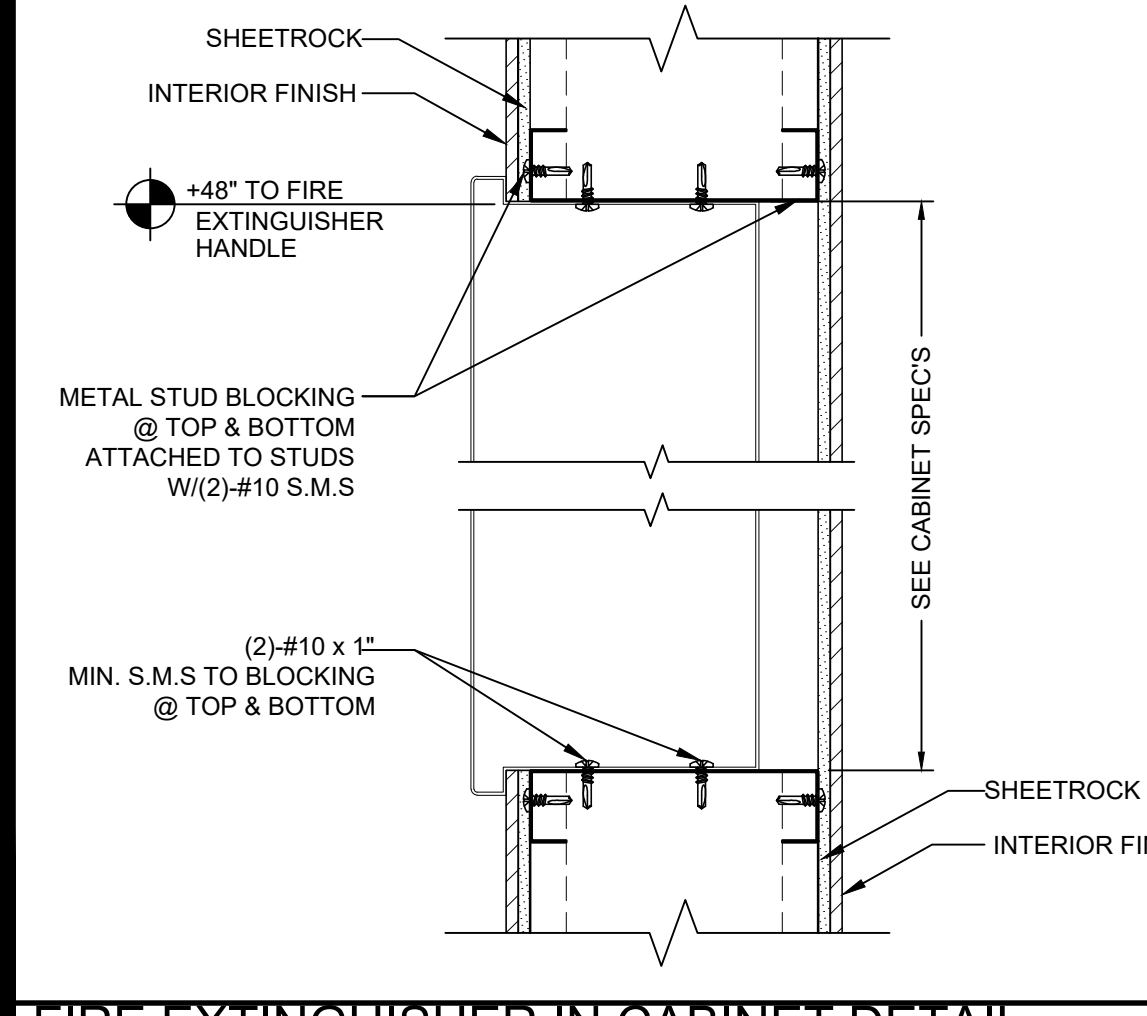


EXTERIOR FINISH @ ROOF BEAM SCALE: 3" = 1'-0" 11

STAIR RAILING DETAIL SCALE: 3" = 1'-0" 12

THRESHOLD @ GROUND FLOOR SCALE: 3" = 1'-0" 13

THRESHOLD @ UPPER FLOOR SCALE: 3" = 1'-0" 14



FIRE EXTINGUISHER IN CABINET DETAIL SCALE: 3" = 1'-0" 15

METAL LATH ATTACHMENT SCALE: 3" = 1'-0" 16

STUCCO TERMINATION @ GRADE SCALE: 3" = 1'-0" 19

RAIN HOOD DETAIL SCALE: 3" = 1'-0" 20

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**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD ON PC

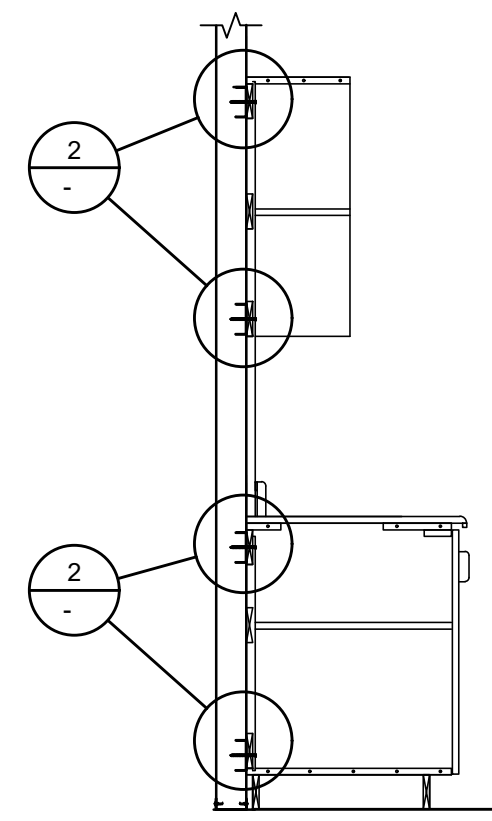
*Patricia Cantrell*  
LICENSED ARCHITECT  
No. C12631  
Ren. 2-31-23  
STATE OF CALIFORNIA

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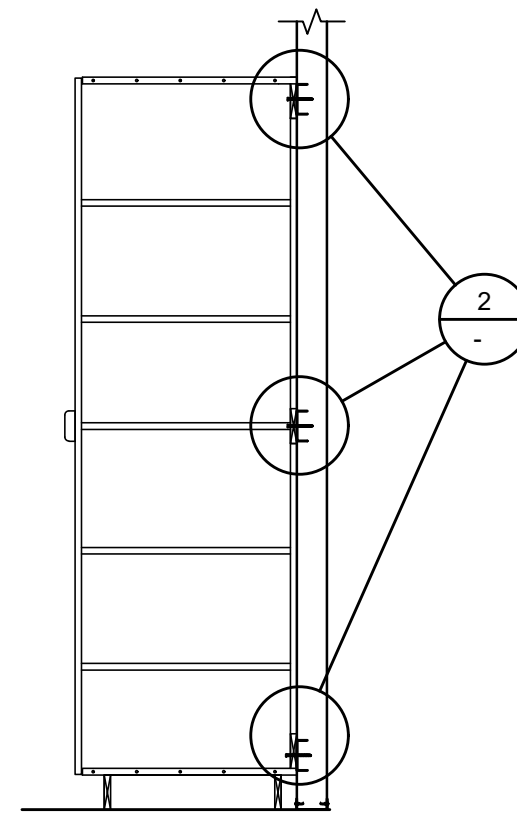
REVISIONS


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20  
SHEET TITLE: EXTERIOR FINISH DETAILS  
SHEET NUMBER: **A5.1**

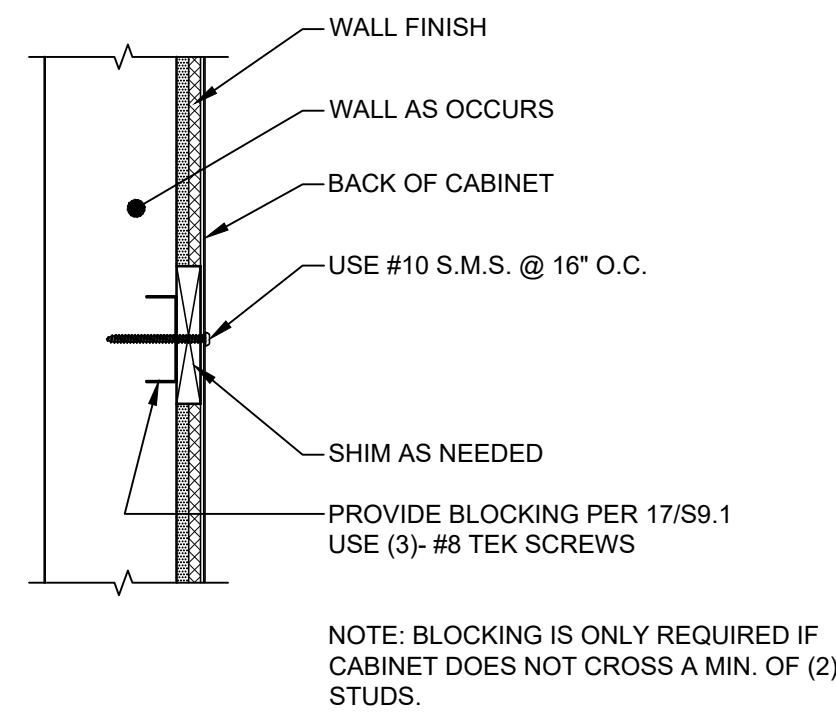
BID SET 10/01/2021



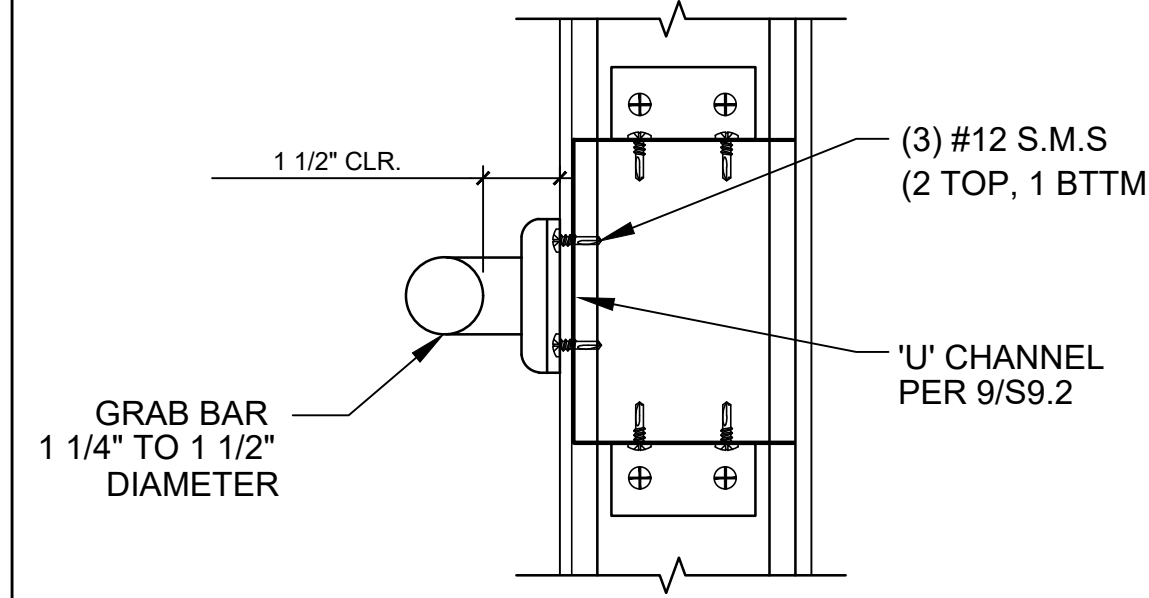
UPPER/BASE CABINET



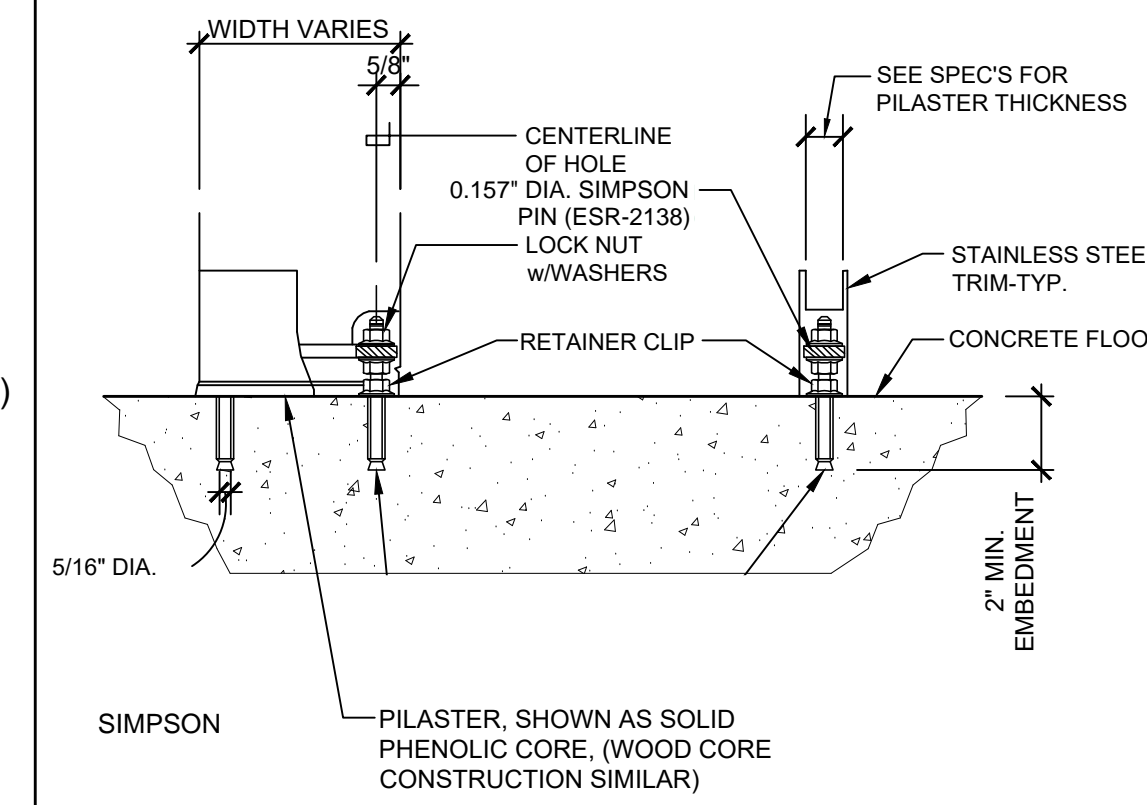
TALL CABINET



NOTE: BLOCKING IS ONLY REQUIRED IF CABINET DOES NOT CROSS A MIN. OF (2) STUDS.



DRILL HOLES FOR FLOOR ATTACHMENT 5/8\"/>



TYP. CABINET BLOCKING

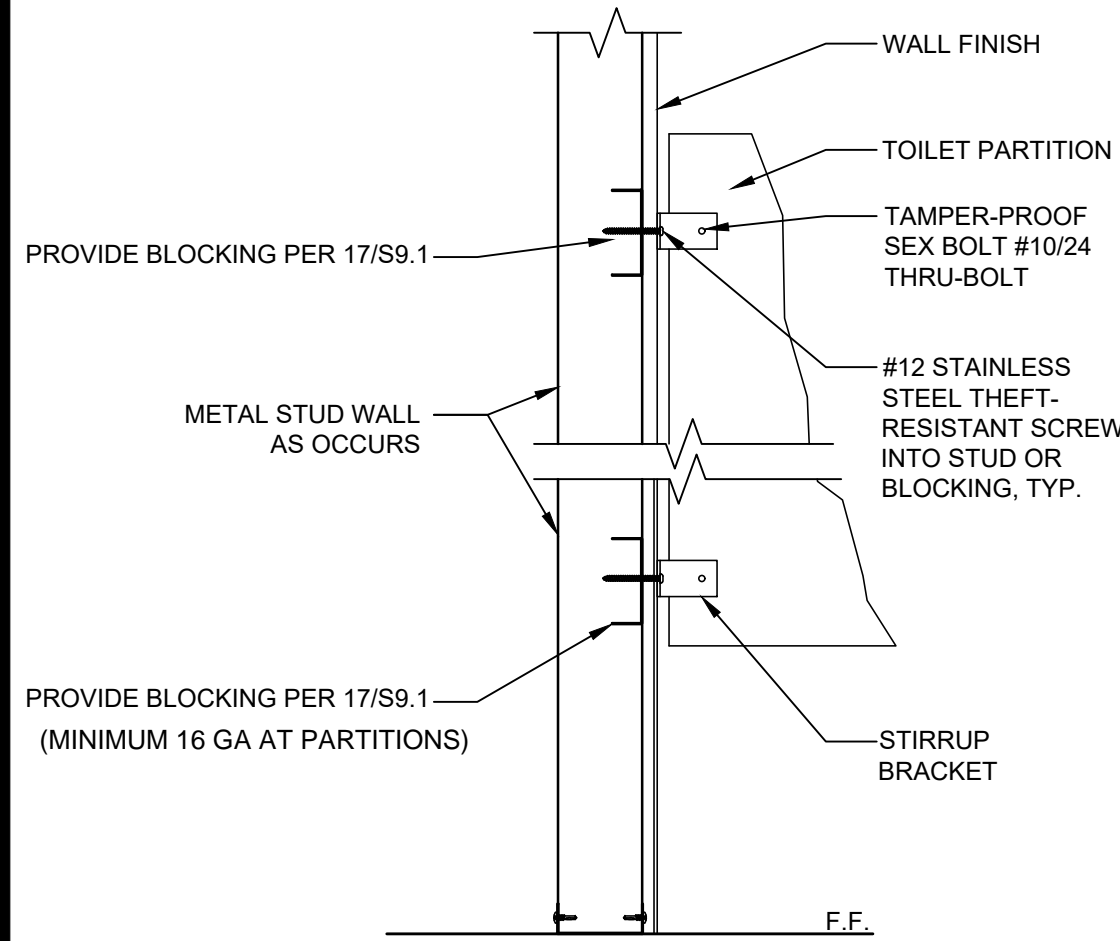
NOT TO SCALE

CABINET BLOCKING IN WALL

SCALE: 1-1/2\"/>

GRAB BAR BLOCKING DETAIL

PARTITION TO CONCRETE FLOOR



TOILET PARTITION WALL BLOCKING

NOT TO SCALE

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

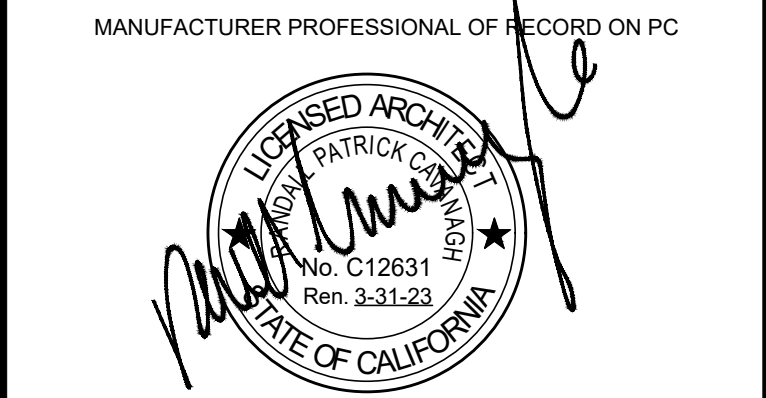


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**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**



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REVISIONS	
△	
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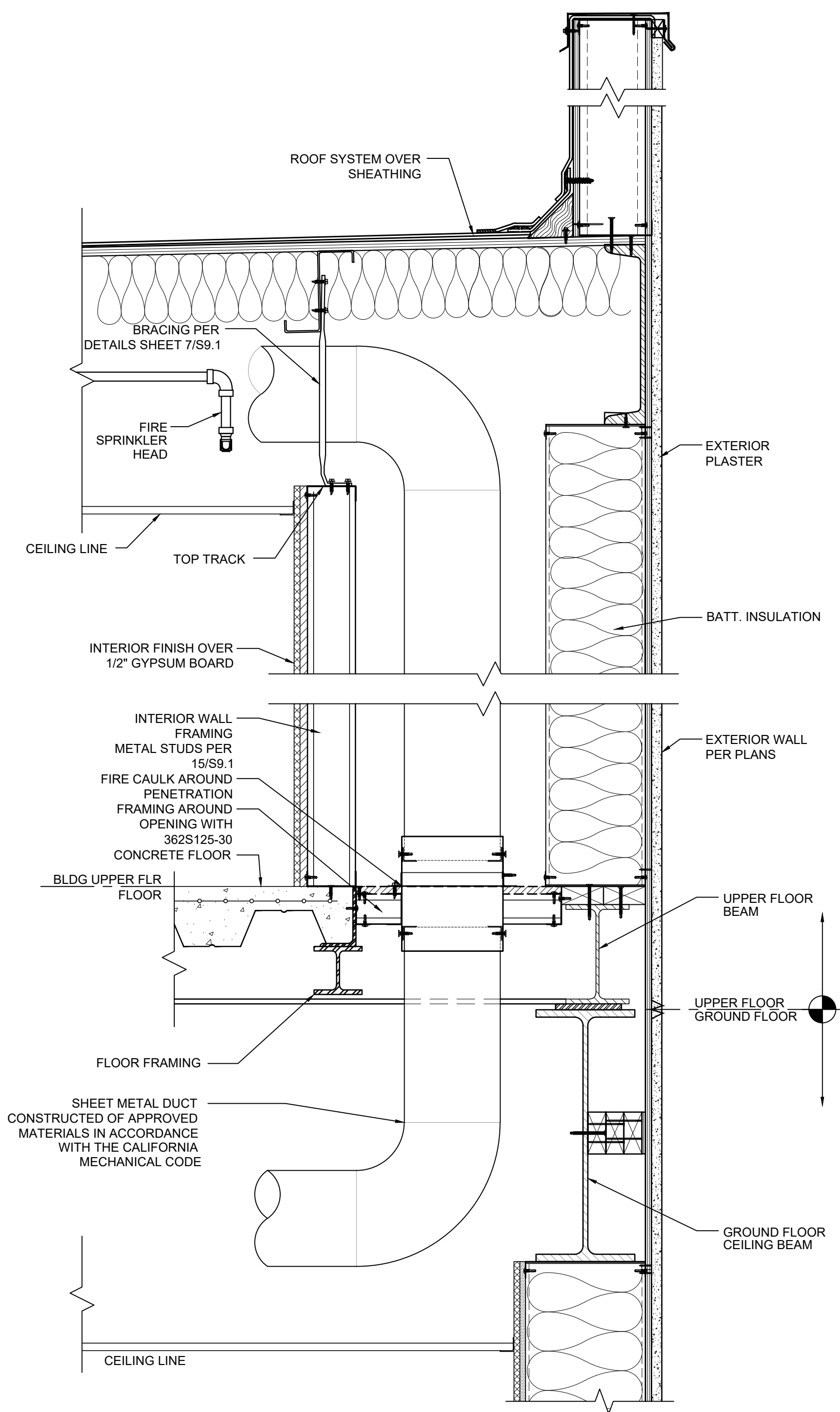
DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20

SHEET TITLE:  
**MISCELLANEOUS ARCHITECTURAL DETAILS**

SHEET NUMBER:

**A7.2**

BID SET 10/01/2021

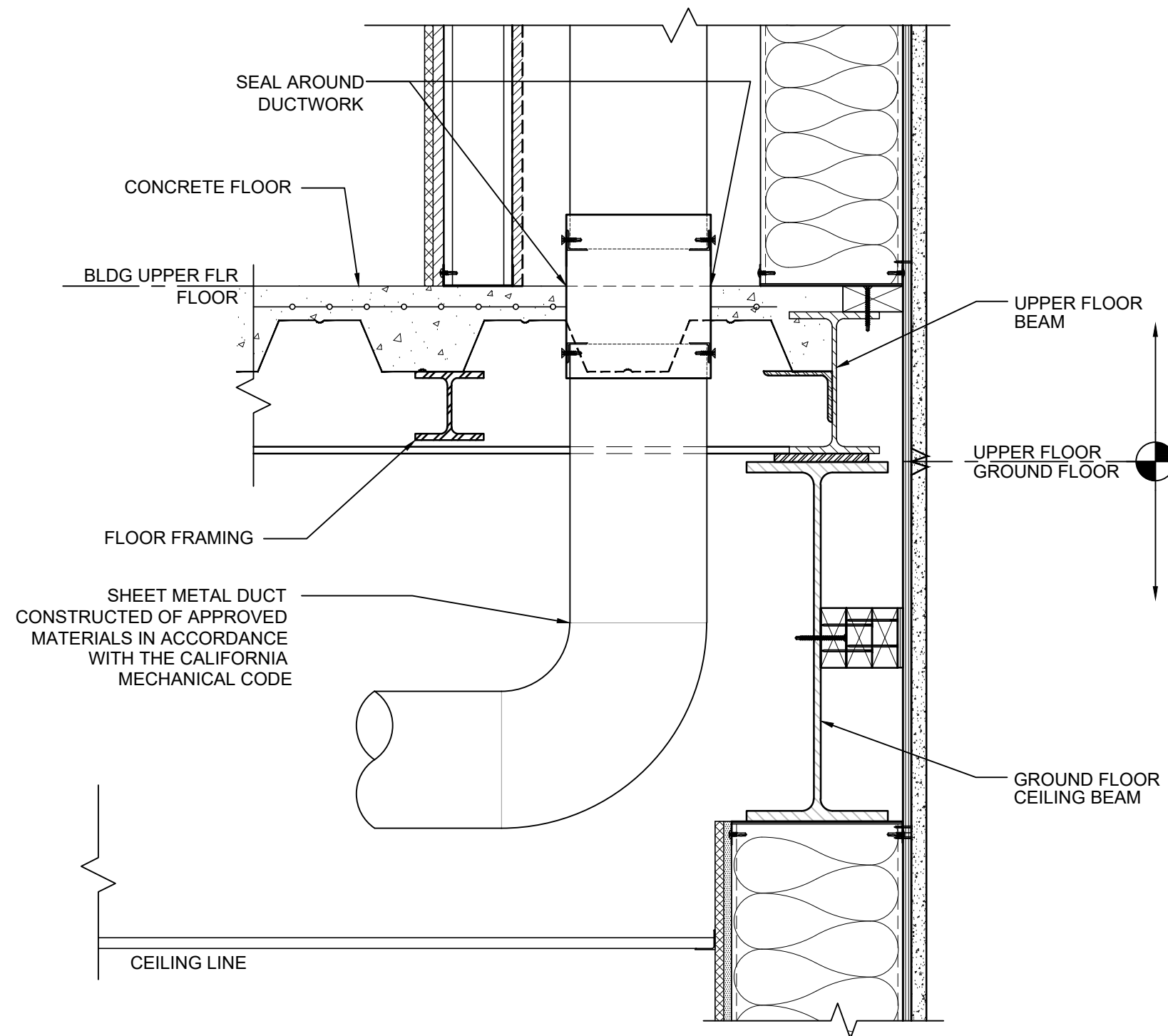


TYPICAL HVAC CHASE SECTION

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

A

OPTIONAL HVAC CHASE SECTION



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

B

NOT USED



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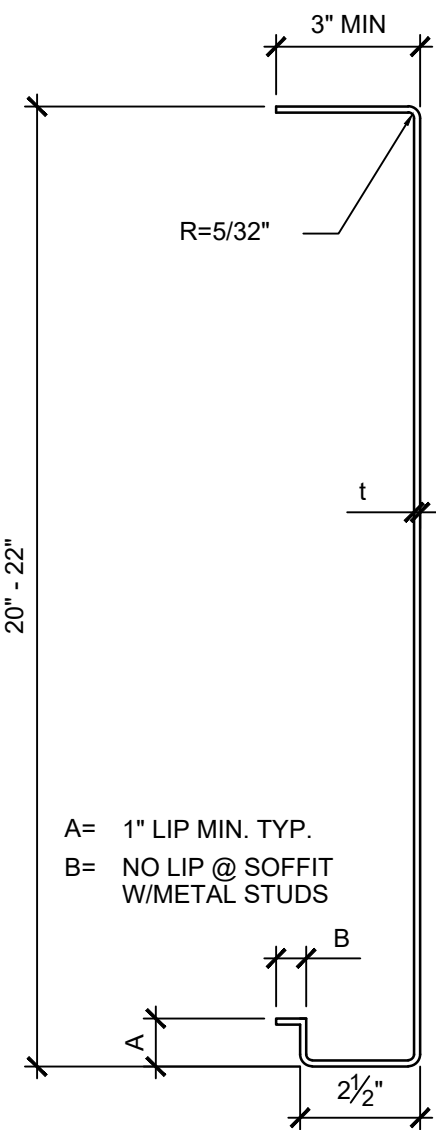
REVISIONS	
△	
△	
△	
△	

DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20

SHEET TITLE:  
**HVAC CHASE SECTION**

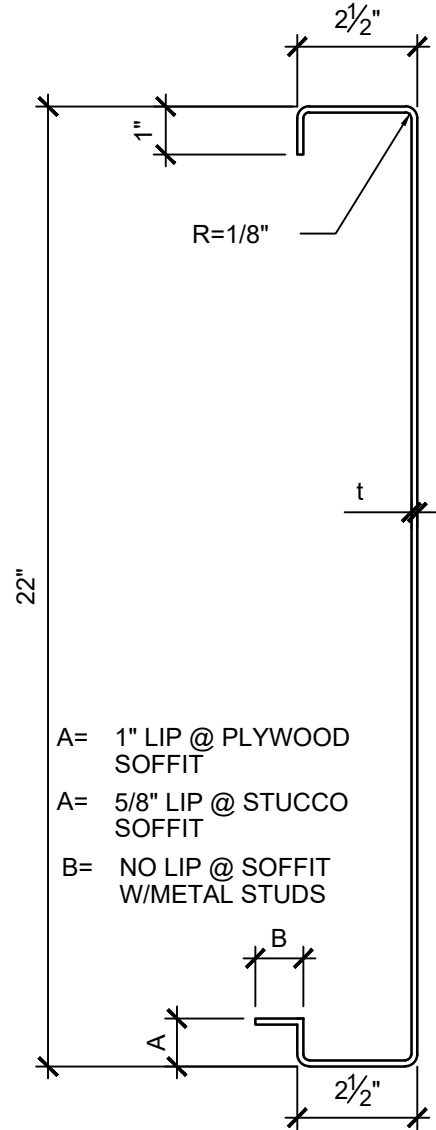
SHEET NUMBER:  
**A8.2**

BID SET 10/01/2021



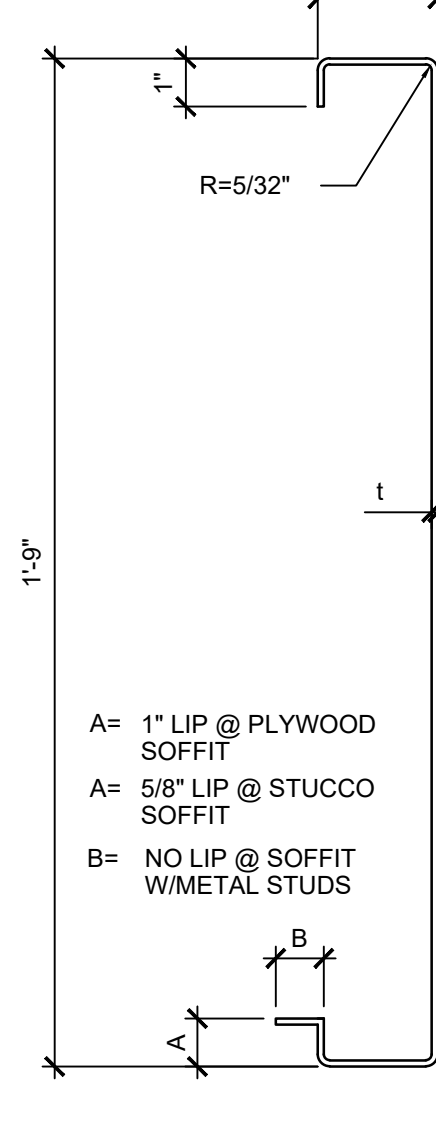
20-22 x 12 GA. TAPERED  
OUTRIGGER UPPER FLOOR OVERHANG

20"  
ASTM = A1011  
GRADE = 36  
Fy = 36 ksi  
A = 2.74 IN<sup>2</sup>  
Sx = 13.00 IN<sup>3</sup>  
Ix = 136.1 IN<sup>4</sup>  
t = 0.0966 IN MIN  
(0.1017 IN DESIGN)



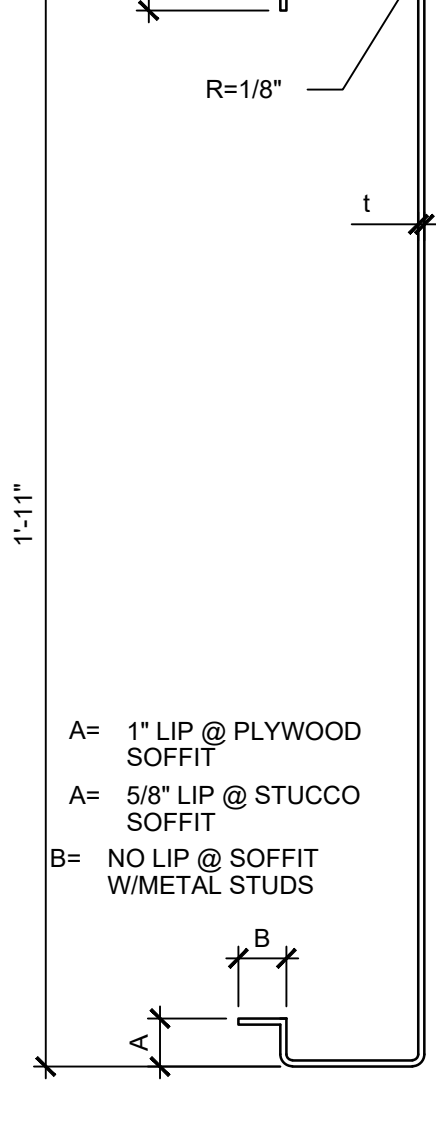
22x2 1/2x14GA  
UPPER FLOOR OVERHANG  
FASCIA

22"  
ASTM = A1011  
GRADE = 36  
Fy = 36 ksi  
A = 2.84 IN<sup>2</sup>  
Sx = 14.55 IN<sup>3</sup>  
Ix = 161.6 IN<sup>4</sup>  
t = 0.0966 IN MIN  
(0.1017 IN DESIGN)



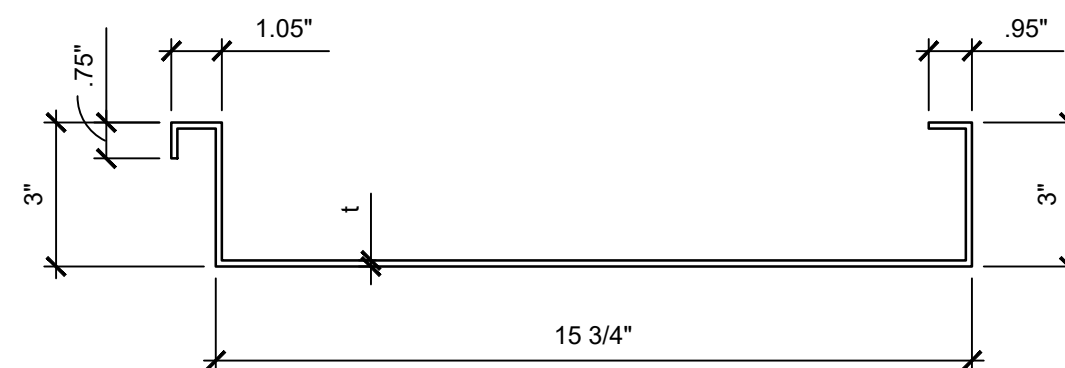
21x2-1/2x12GA  
GROUND FLOOR OVERHANG  
FASCIA

ASTM = A1011  
GRADE = 33  
Fy = 33 ksi  
A = 2.00 IN<sup>2</sup>  
Sx = 10.28 IN<sup>3</sup>  
Ix = 114.49 IN<sup>4</sup>  
t = 0.0677 IN MIN  
(0.0713 IN DESIGN)



23x3x14GA  
C CHANNEL - SKYWALK

ASTM = A1011  
GRADE = 33  
Fy = 33ksi  
A = 2.17 in<sup>2</sup>  
Sx = 12.24 IN<sup>3</sup>  
Ix = 140.81 in<sup>4</sup>  
t = 0.0677 in. MIN.  
(0.0713 in. DESIGNED)



20 GA ROOF PAN STANDING SEAM  
ROOF PANEL AT PC ELEVATOR  
(PC 03-118291)  
ASTM A1011, GRADE 36  
Fy = 36 KSI

Sx (t) = 0.364 IN<sup>3</sup>  
Sx (b) = 1.372 IN<sup>3</sup>  
Ix = 0.863 IN<sup>4</sup>

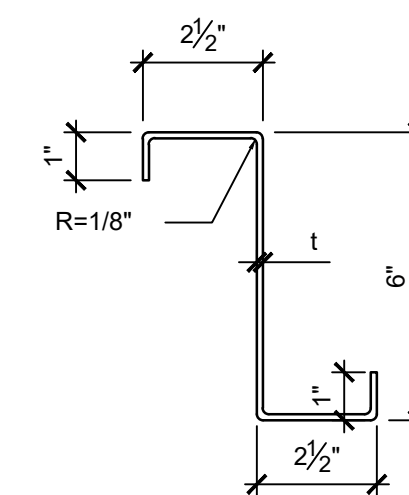
Sx (t) = 0.330 IN<sup>3</sup>  
Sx (b) = 0.305 IN<sup>3</sup>  
Ix = 0.476 IN<sup>4</sup>  
A = 0.840 IN<sup>2</sup>

w/ GALVANIZATION  
t = 0.0356 IN. MIN.

w/o GALVANIZATION  
t = 0.0329 IN. MIN.  
(0.035 IN DESIGN)

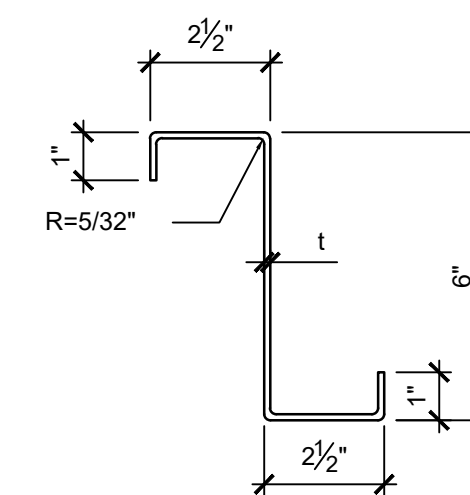
NOTES:

- MEMBERS TO BE FABRICATED FROM HOT ROLLED SHEETS WITH OPTIONAL RUST INHIBITIVE COATING
- UNLESS NOTED OTHERWISE ALL SECTION PROPERTIES ARE GROSS SECTION PROPERTIES



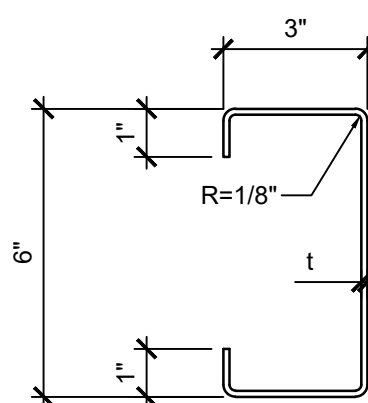
6x2 1/2x14GA  
UPPER FLOOR  
ROOF PURLIN

ASTM = A1011  
GRADE = 36  
Fy = 36 KSI  
A = 0.889 IN<sup>2</sup>  
Sx = 1.662 IN<sup>3</sup>  
Ix = 4.885 IN<sup>4</sup>  
t = 0.0677 IN MIN  
(0.0713 IN DESIGN)



6x2 1/2x12GA  
GROUND FLOOR  
ROOF PURLIN

ASTM = A1011  
GRADE = 36  
Fy = 36 KSI  
A = 1.245 IN<sup>2</sup>  
Sx = 2.288 IN<sup>3</sup>  
Ix = 6.865 IN<sup>4</sup>  
t = 0.0966 IN MIN  
(0.1017 IN DESIGN)



6x3x14GA  
C FORMED

ASTM = A1011  
GRADE = 36  
Fy = 36 ksi  
A = 0.960 in<sup>2</sup>  
Sx = 1.370 in<sup>3</sup>  
Ix = 5.611 in<sup>4</sup>  
t = 0.0677 in. MIN.  
(0.0713 in. DESIGNED)



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SET NAME

(2) 72'x40' 2 STORY  
CLASSROOM BUILDINGS

SITE SPECIFIC PROJECT NAME

GLENDALE USD  
GLENOAKS  
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD ON PC



09/20/2021  
RST#20203

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DRAWN BY: AH

SCALE: AS NOTED

DATE: 07/05/21

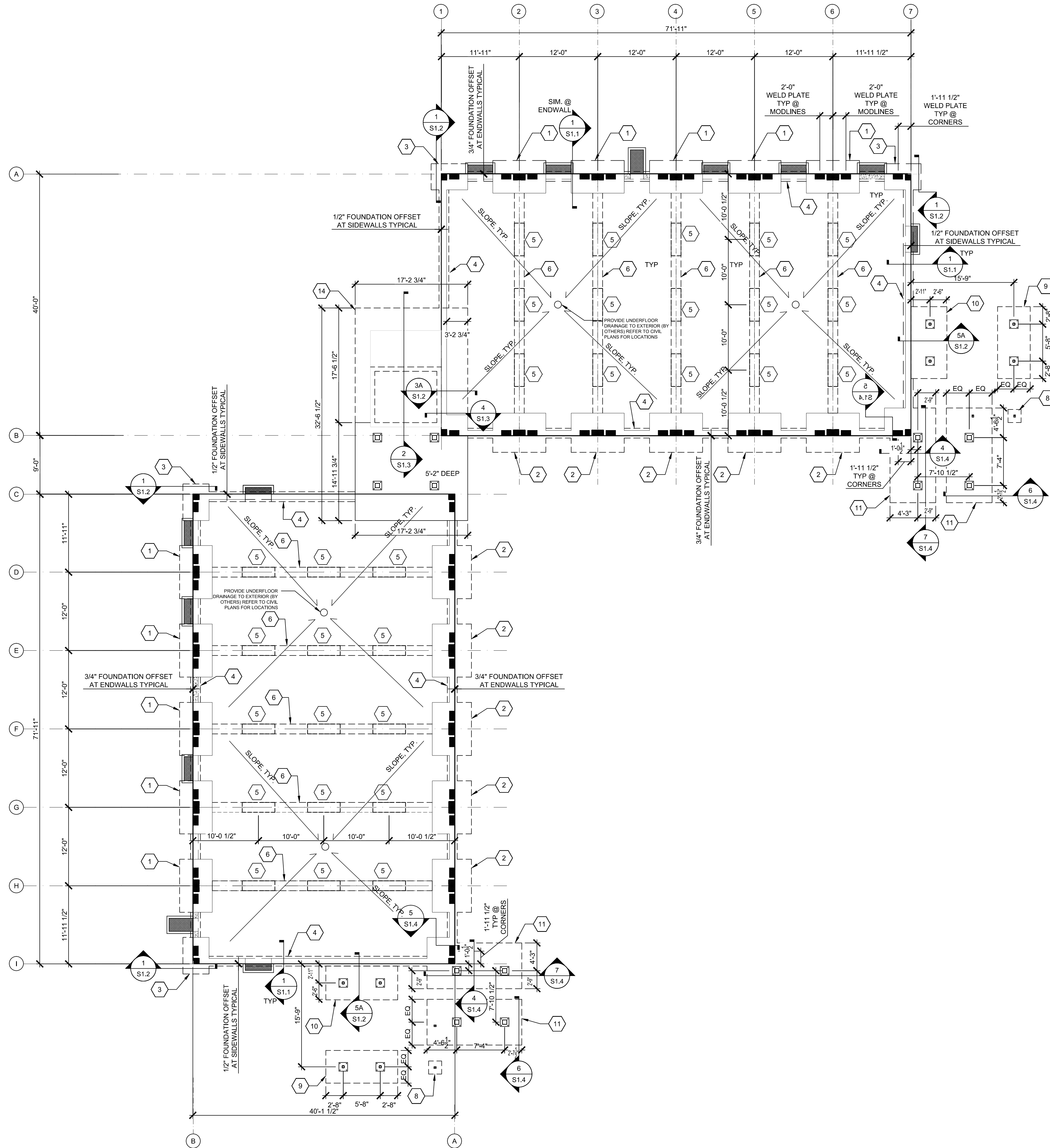
PROJECT NO: 1614-20

SHEET TITLE:

LIGHT GAUGE STEEL  
MEMBER  
PROPERTIES

SHEET NUMBER:

S0.0



**NOTES**

- DO NOT INSTALL BUILDING IN AREAS OF WATER FLOW LINES.
- CONCRETE MIXTURES:
  - CONCRETE STRENGTH: FOOTINGS AND SLABS ON GRADE, (DESIGN BASED ON FC=3000 PSI) MINIMUM REQUIREMENTS: PSI @ 28 DAYS = 3500 PSI, MIN. CEMENT TYPE II/V WITH WATER/CEMENT RATIO OF 0.5, AND MAX SLUMP 4"
  - PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.3.
  - DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4.
  - CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1
  - SEE SHEET N1.0 FOR ADDITIONAL CONCRETE NOTES.
- BUILDING MAY BE SET ON CONCRETE FOUNDATIONS THAT HAVE REACHED A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 70% OF THE SPECIFIED DESIGN STRENGTH (f<sub>c</sub>) STATED ABOVE IN NOTE #2. PRIOR TO THE SETTING OF THE MODULAR BUILDING ON CONCRETE FOUNDATIONS THAT HAVE NOT YET CURED 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE, THE FOUNDATION CONTRACTOR SHALL:
  - HAVE THE PROJECT TESTING LAB PERFORM CONCRETE CYLINDER COMPRESSION TESTS OF THE FOUNDATION CONCRETE USED AT THE SITE.
  - FURNISH THE PROJECT IOR AND REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITH CONCRETE TEST REPORTS VERIFYING THAT THE FOUNDATION CONCRETE HAS REACHED THE MINIMUM STRENGTH AS SPECIFIED ABOVE, AND
  - NOTIFY THE PROJECT IOR AND REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THEIR INTENT TO SET THE MODULAR BUILDING PRIOR TO 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE.
- THE REINFORCING BARS MUST BE TESTED PER TITLE 24, PART 2, SECTION 1910A.2.
- REINFORCING STEEL SHALL BE 60,000 PSI MINIMUM, PER ASTM A615. LAP SPLICE PER SCHEDULE 20/S1.3
- DESIGN SOIL BEARING CAPACITY = 2000 PSF (DL ONLY) AND 2500 PSF (DL + LL) PER SOIL REPORT (1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED UNLESS USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1605 A.3.2)
- FOR PIPE PENETRATIONS SEE 20/S1.4
- THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHOULD VERIFY THAT THE NET AREA OF THE VENT COVER IS EQUAL TO OR LARGER THAN THE VENT AREA REQUIRED SHOWN IN THE TABLE.
- THE DESIGN OF FLOOR DRAINS UNDER THE BUILDING SHALL BE PROVIDED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
- MODLINE PIERS SHALL BE FORMED AND POURED SO THAT THE TOP OF THE CONCRETE IS AT THE SAME ELEVATION AS THE TOP OF THE COLUMN WELD PLATES SHOWN IN DETAILS 2/S1.1 & 1/S1.2 SHIM PLATES PER DETAIL 5/S1.3 MAY BE USED WHERE REQUIRED

VENTILATION SCHEDULE BUILDING A							
Project Specific Building Size	Total Building Width	Total Floor Area (FT2)	Actual Crawl Space Area required to be vented (FT2)	Vent. Net Area Required (FT2)	Min. Total # 3'x24" access Vents (3 sq. ft.)	Min. Total # 4'x12" access Vents (3.12 sq. ft.)	Vent Net Area Provided (FT2)
72' x 40"	71' x 10"	2880	2389	15.9	1	3	17.8

VENTILATION SCHEDULE BUILDING B							
Project Specific Building Size	Total Building Width	Total Floor Area (FT2)	Actual Crawl Space Area required to be vented (FT2)	Vent. Net Area Required (FT2)	Min. Total # 3'x24" access Vents (3 sq. ft.)	Min. Total # 4'x12" access Vents (3.12 sq. ft.)	Vent Net Area Provided (FT2)
72' x 40"	71' x 10"	2880	2389	15.9	1	2	17

FOOTING SCHEDULE			
Type Mark	Type	Reference Detail	Remark
1	8'-1 1/2" x 5'-0" x 18" DP	(2/S1.1)	
2	8'-1 1/2" x 6'-0" x 18" DP	(1/S1.2)	
3	5'-7 1/4" x 4'-0" x 18" DP	(2/S1.1)	
4	1'-6"W CONT. x 18" DP	(1/S1.1)	
5	1'-6"W x 5'-0"L x 36" x 42" DP	(4/S1.1)	
6	1'-6"W CONT. x 18" DP	(4/S1.1)	
14	17'-2 3/4" x 32'-6 1/2"	(PC 03-118291)	
Type Mark	Type	Reinforcement	
8	2'-0" SQ. x 18" DP	(3) #4 E.W. T&B	10" BELOW F.F. 18" DEEP
9	5'-0"W x 11'-0"L x 24" DP	(6) #6 LONG. T&B & #6 TRANS. @ 8" O.C. T&B	10" BELOW F.F. 24" DEEP
10	5'-2"W x 11'-0"L x 3'-2" DP	(6) #6 LONG. T&B & #6 TRANS. @ 8" O.C. T&B	SEE DETAIL 5A/S1.2 10" BELOW F.F. 5'-2" DEEP
11	7'-0"W x 14'-6"L x 3'-2" DP MIN	(9) #6 LONG. T&B & #6 TRANS. @ 8" O.C. T&B	SEE DETAILS 5, 6 & 7/S1.4 10" BELOW F.F. 5'-2" DEEP

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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD

*Patricia Garcia*  
LICENSED ARCHITECT  
PATRICIA GARCIA  
No. C12631  
Ren. 3.31.21  
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
MARTIN D. FRISCO  
No. S3380  
STATE OF CALIFORNIA

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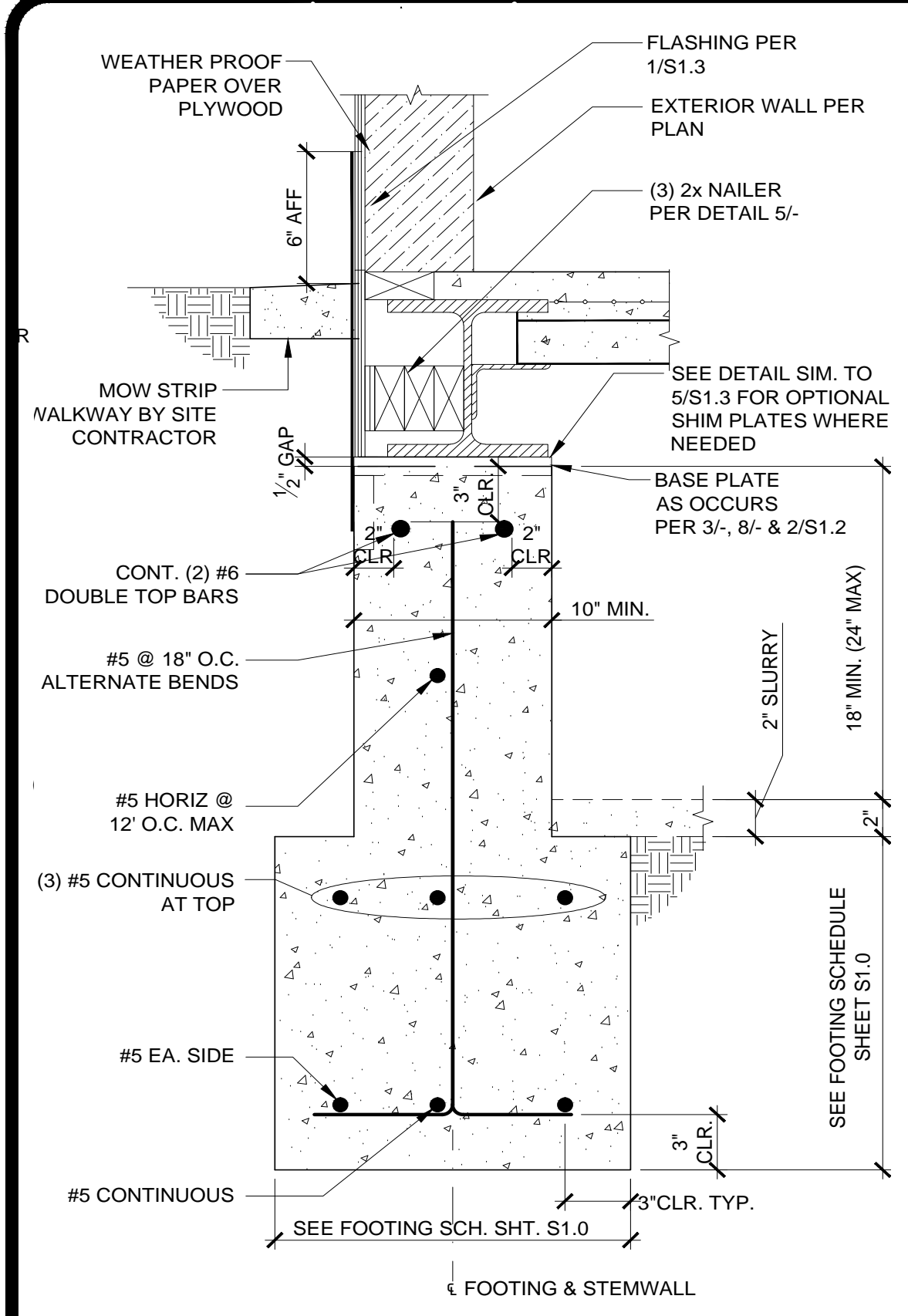
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SCALE: AS NOTED  
DATE: 12/04/20  
PROJECT NO: 1614-20

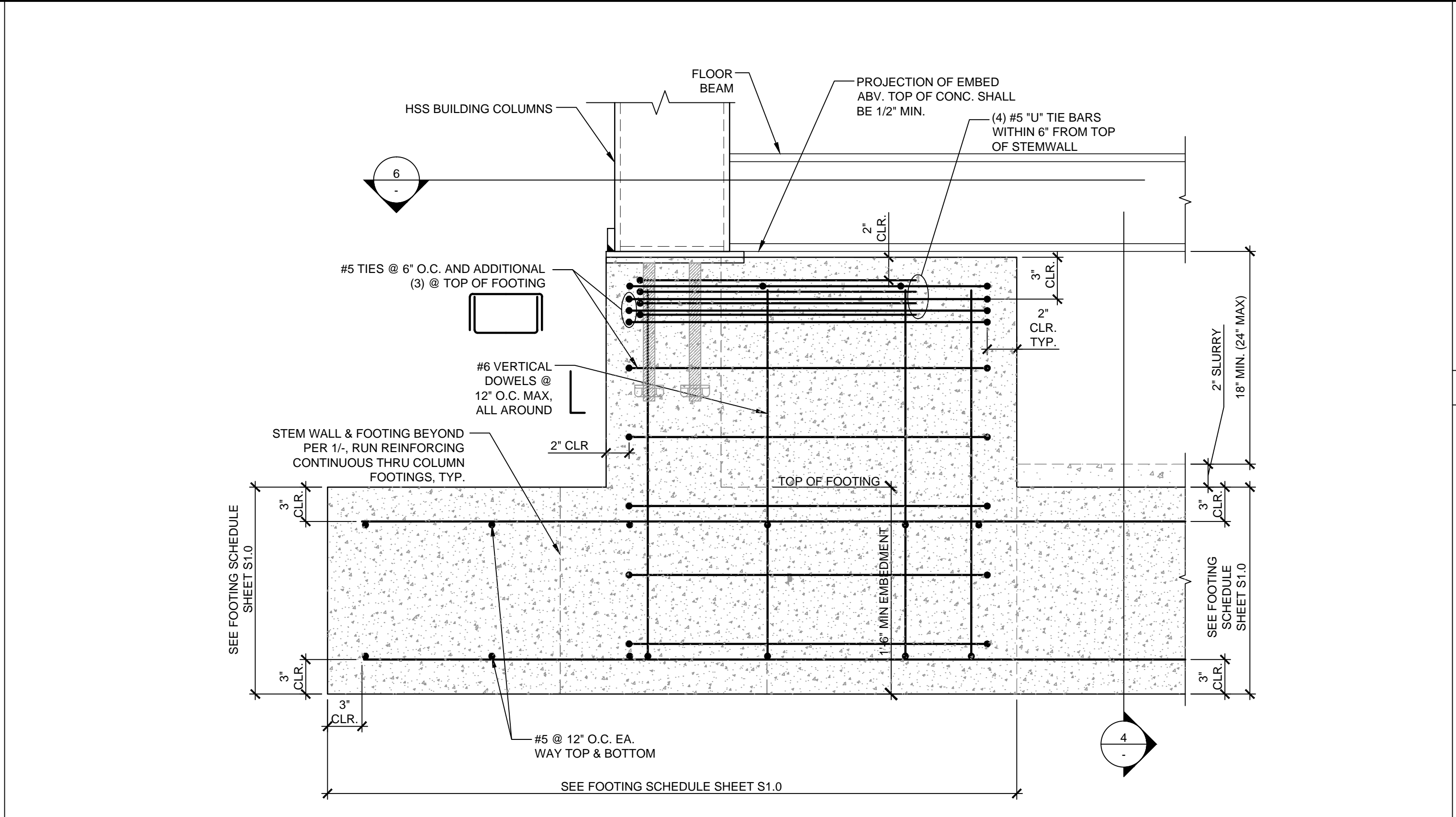
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**FOUNDATION PLAN**

SHEET NUMBER:  
**S1.0**

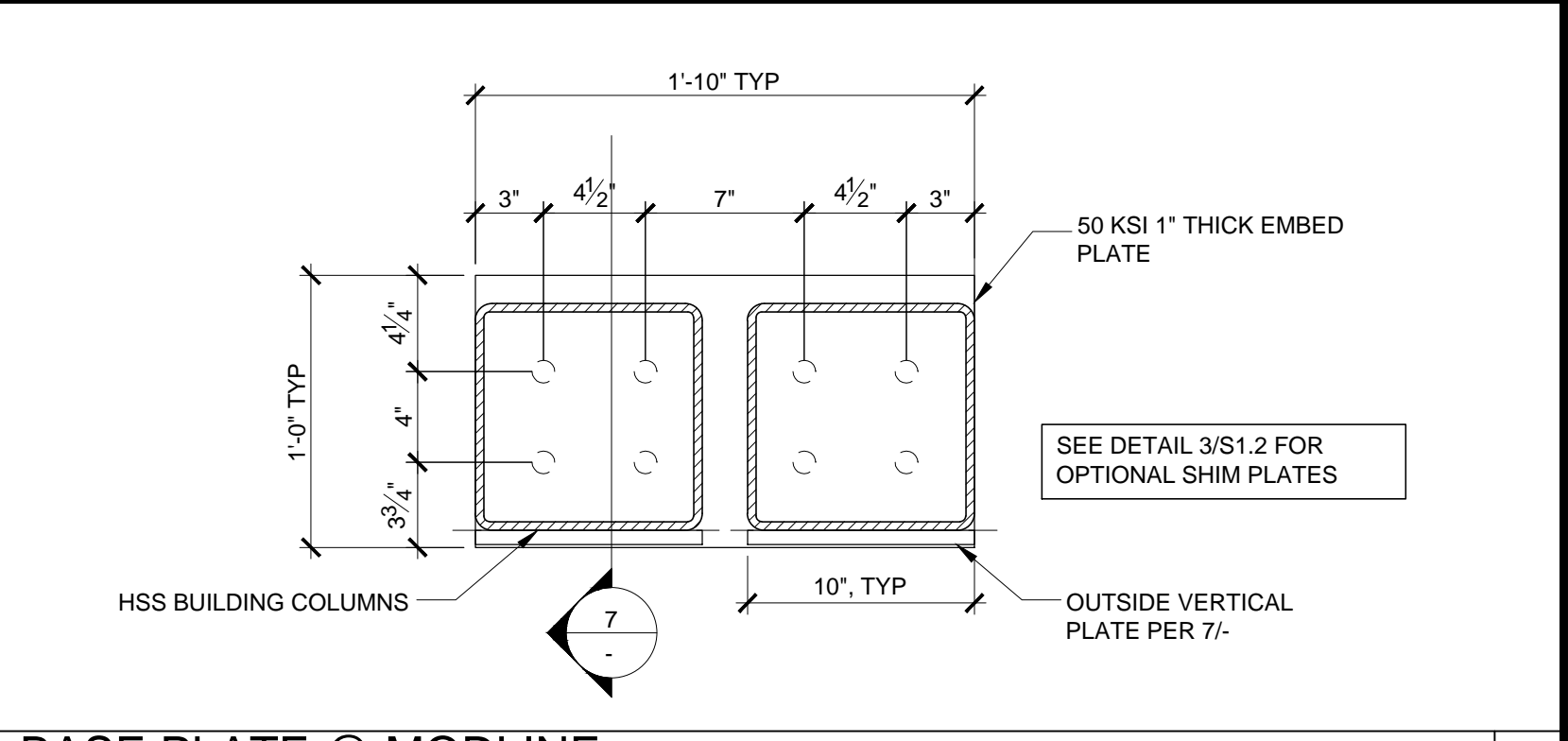
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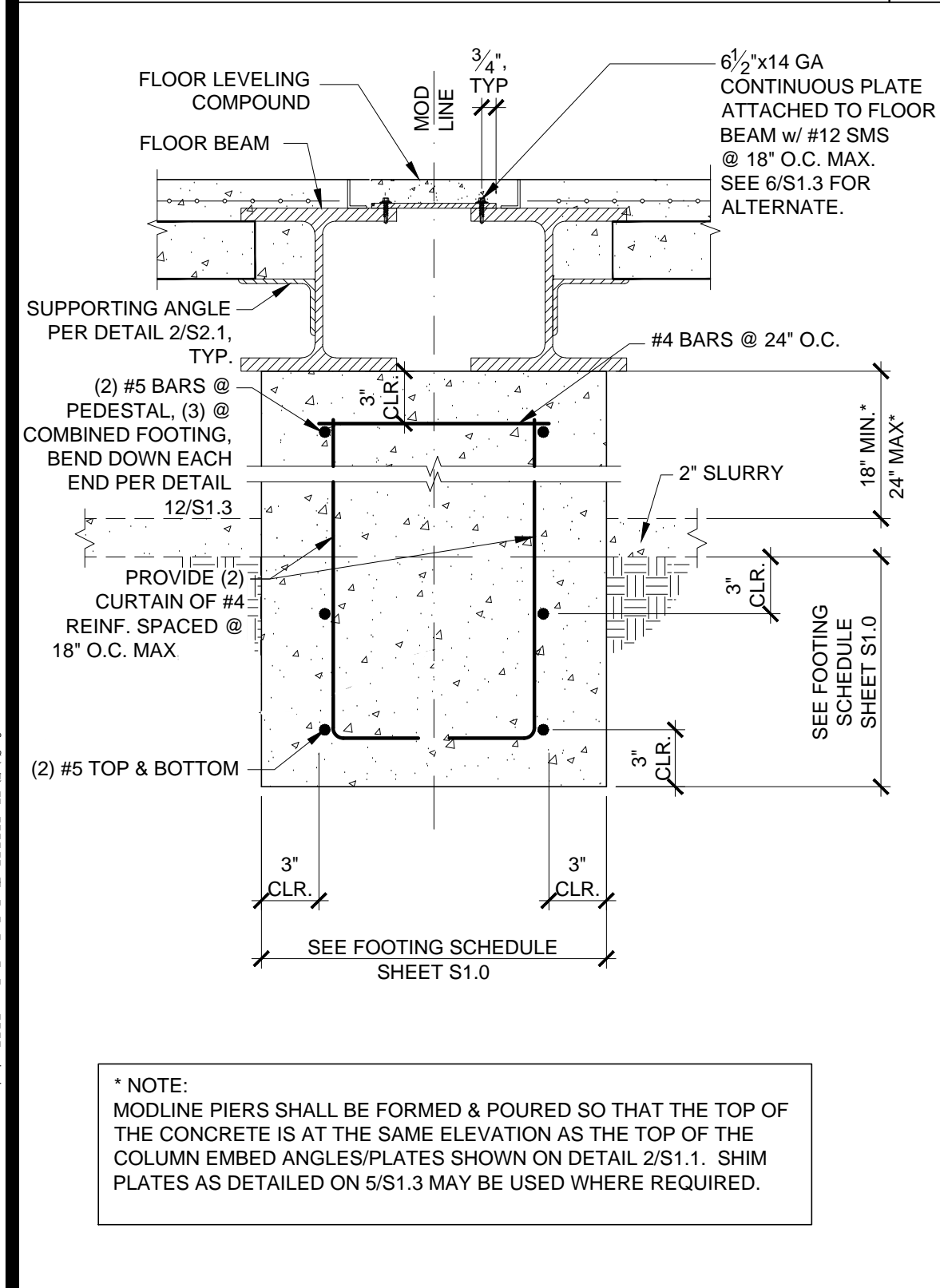
TYPICAL FOOTING DETAIL SCALE: 1-1/2" = 1'-0" 1



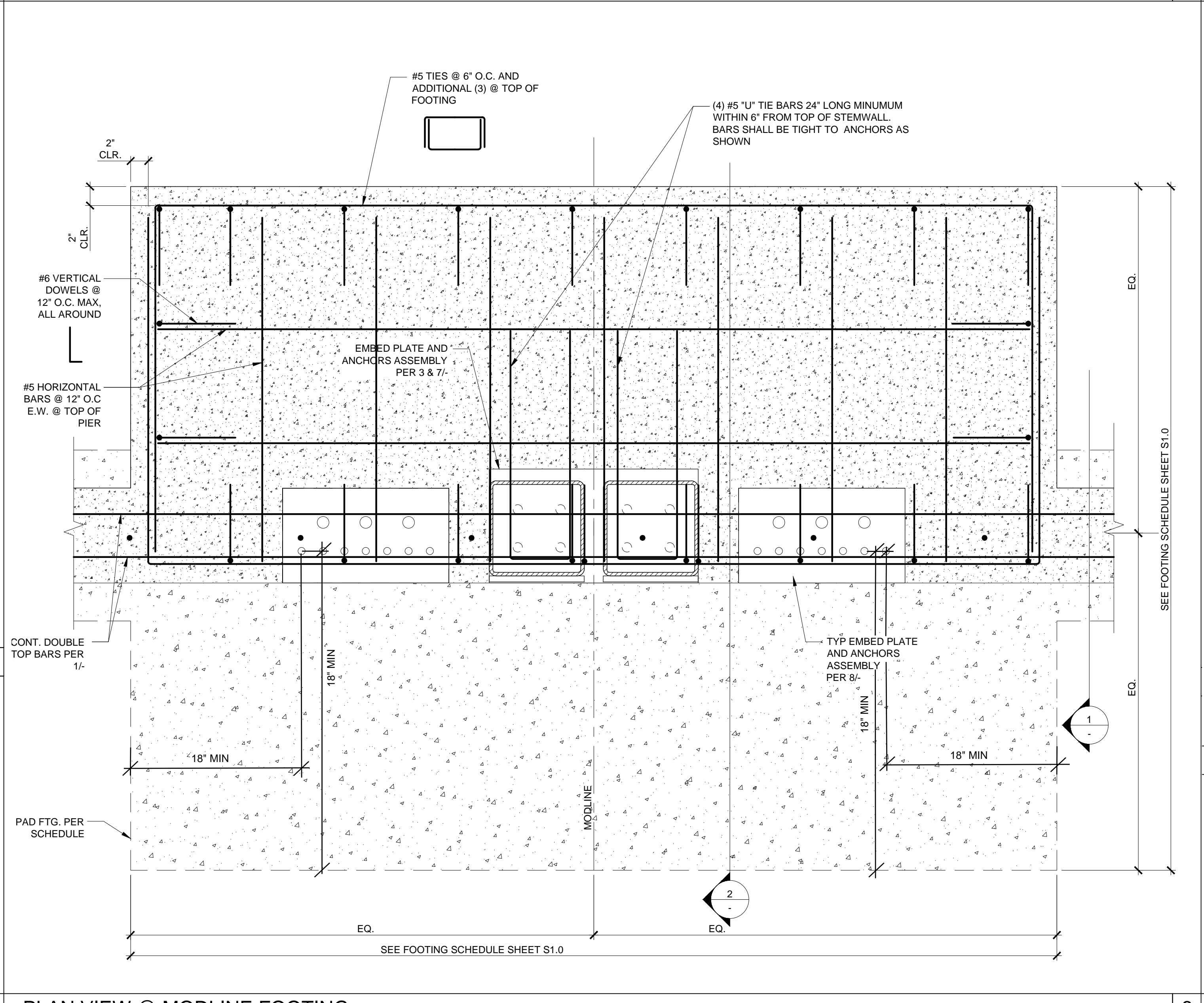
MODLINE FOOTING DETAIL SCALE: 1-1/2" = 1'-0" 2



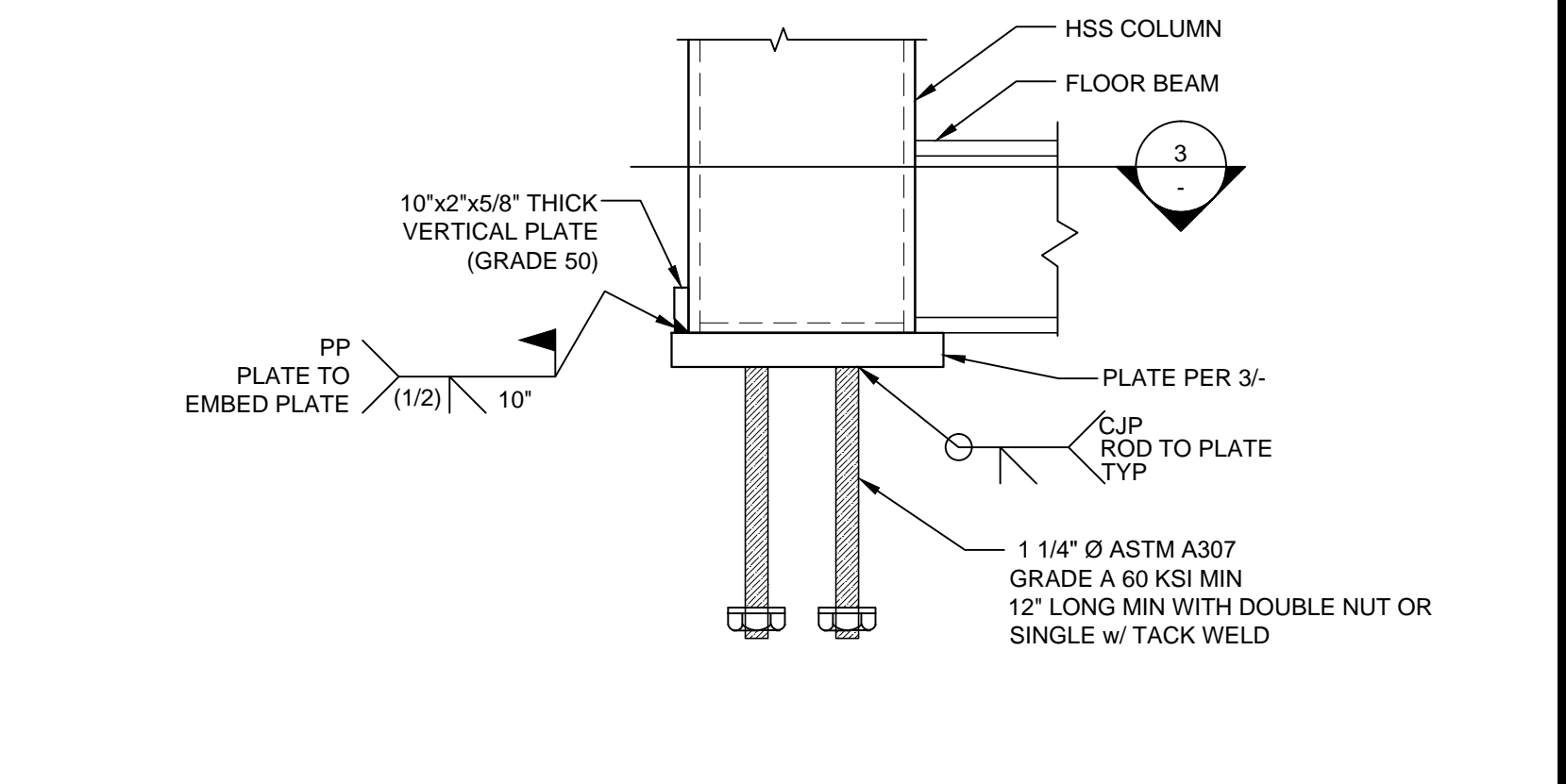
BASE PLATE @ MODLINE SCALE: 1-1/2" = 1'-0" 3



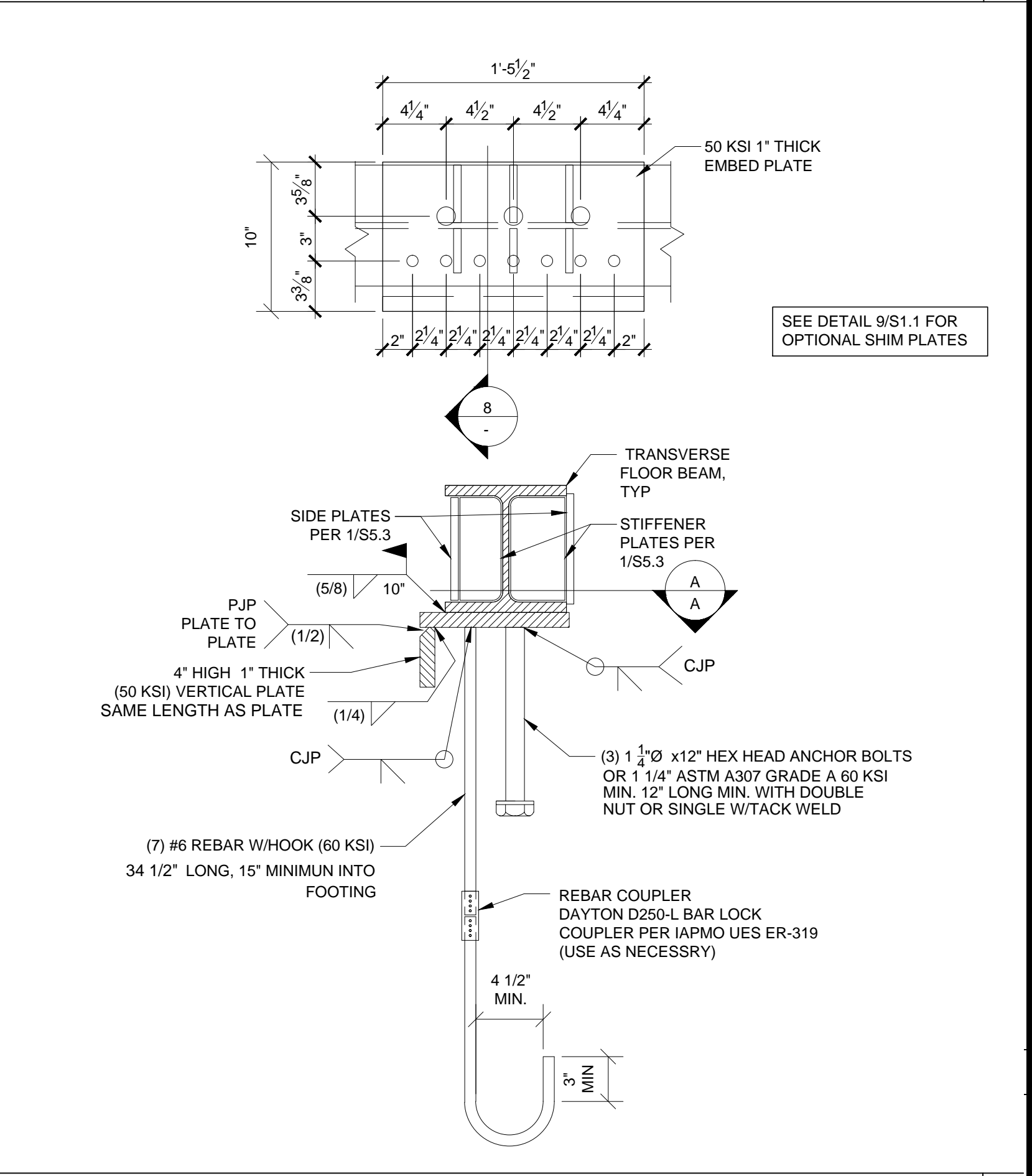
INTERIOR MODLINE FOOTING SCALE: 1-1/2" = 1'-0" 4



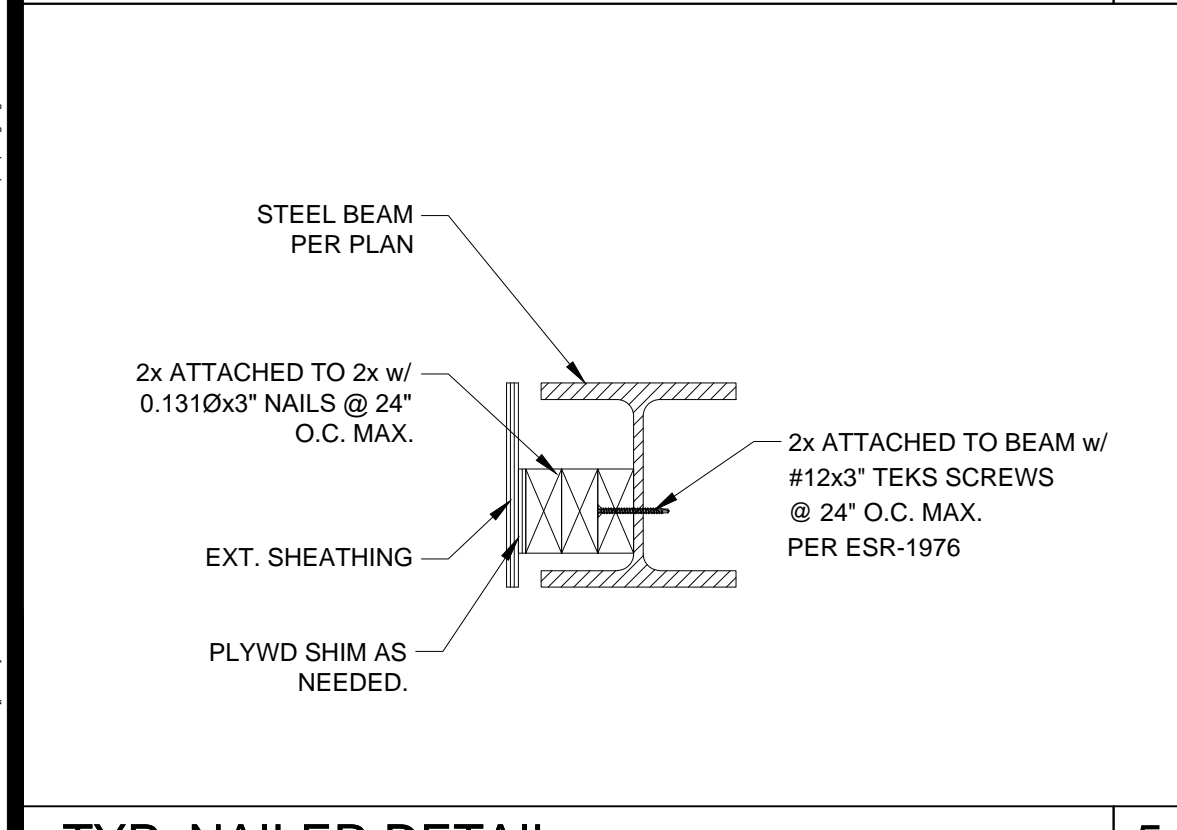
PLAN VIEW @ MODLINE SCALE: 1-1/2" = 1'-0" 6



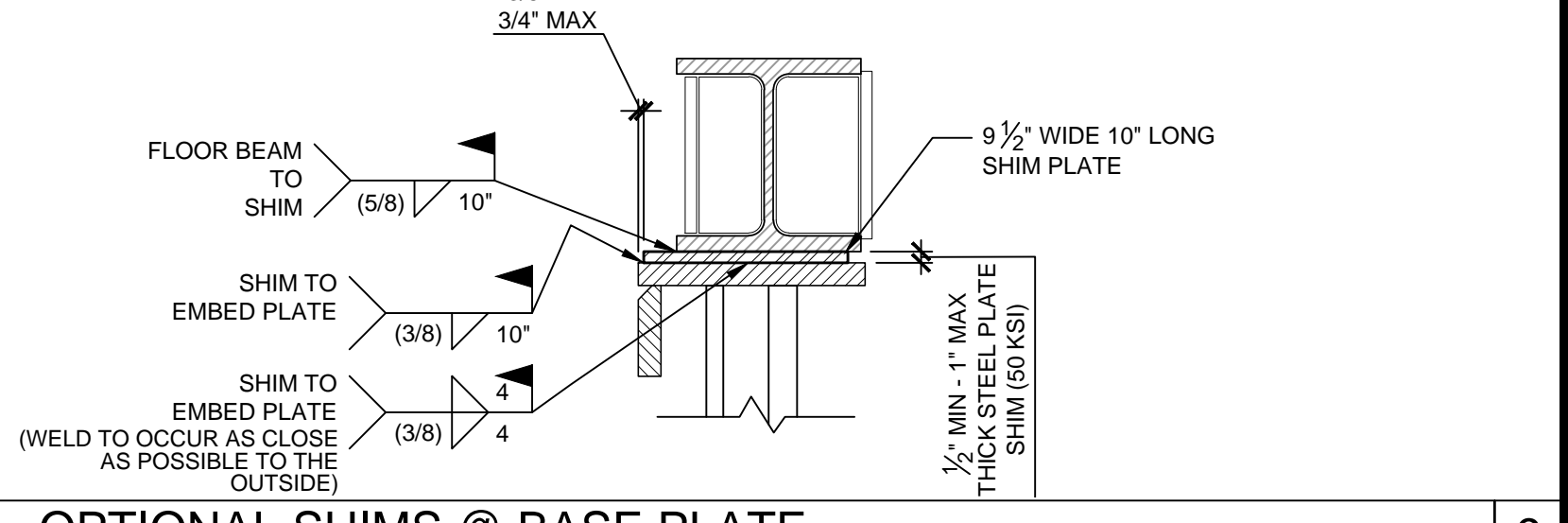
BASE PLATE CONNECTION DETAIL @ MODLINE SCALE: 1-1/2" = 1'-0" 7



BASE PLATE AND CONNECTION DETAIL @ FLOOR BEAM SCALE: 1-1/2" = 1'-0" 8



TYP. NAILER DETAIL SCALE: 1-1/2" = 1'-0" 5



OPTIONAL SHIMS @ BASE PLATE SCALE: 1-1/2" = 1'-0" 9

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SITE SPECIFIC PROJECT NAME  
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MANUFACTURER PROFESSIONAL OF RECORD ON PC  
**LICENCED ARCHITECT PATRICIA CANNON**  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

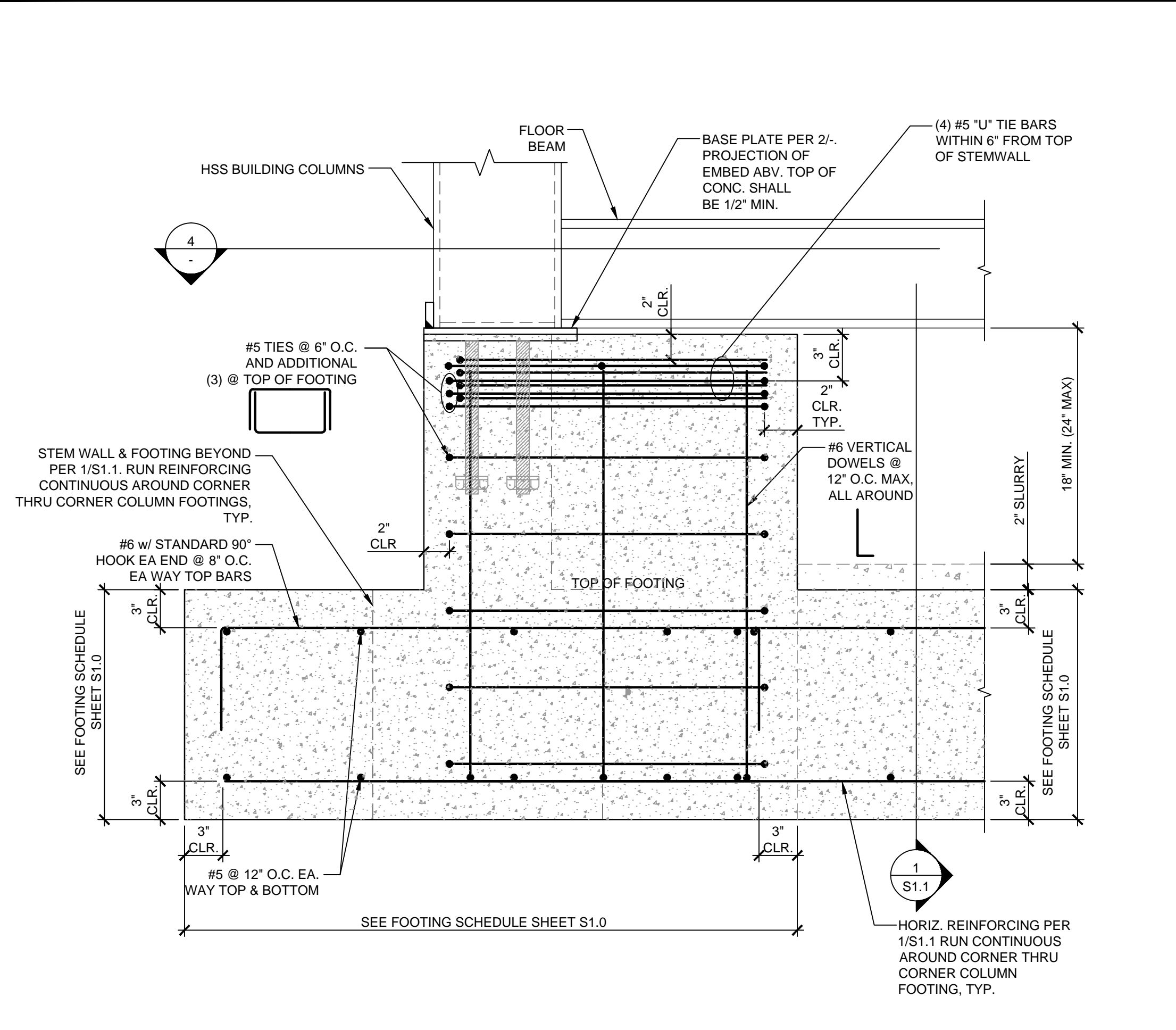
**REGISTERED PROFESSIONAL ENGINEER**  
MANNY D. FROST  
No. S3380  
STRUCTURAL  
STATE OF CALIFORNIA

09/20/2021  
RST#20203  
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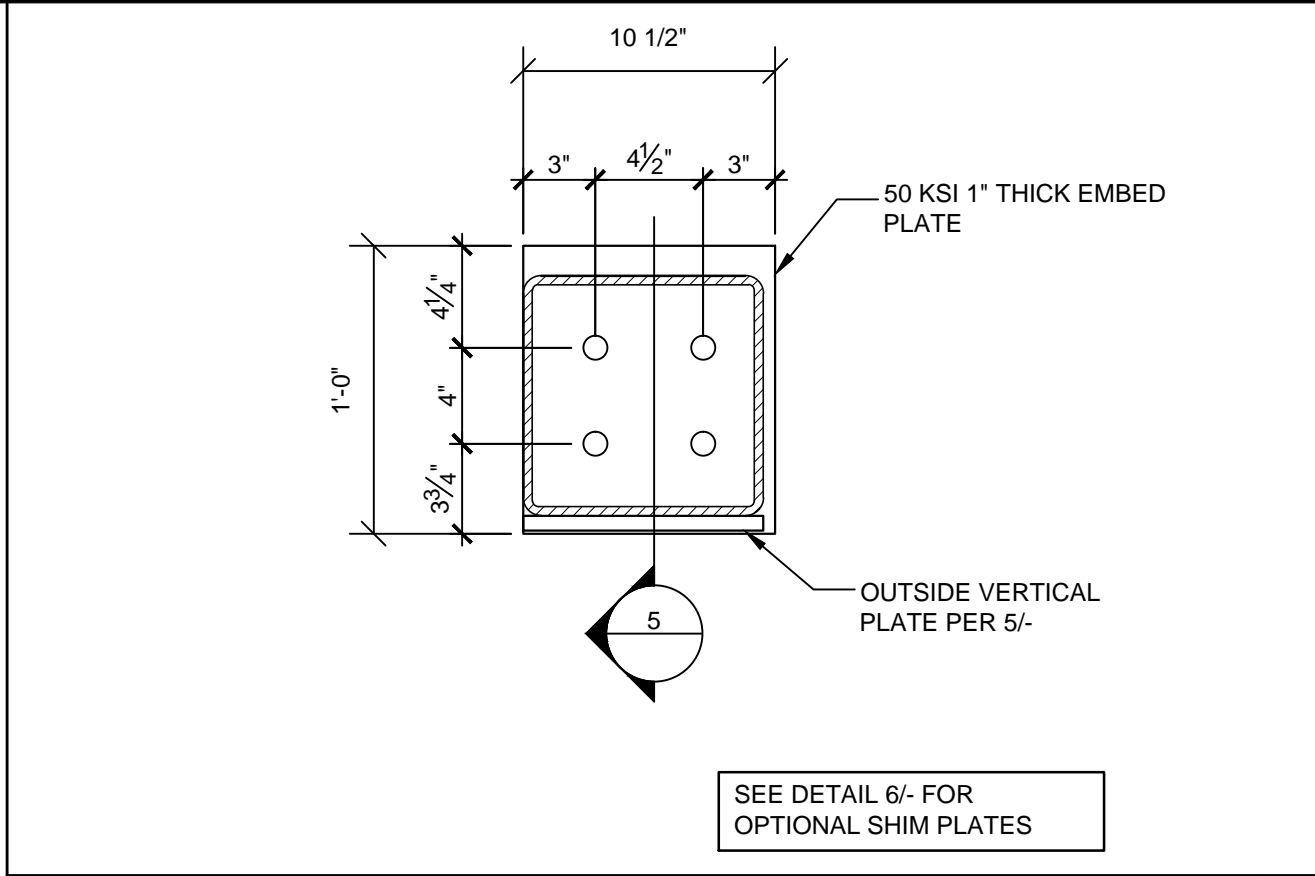
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SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20  
SHEET TITLE: **FOUNDATION DETAILS**  
SHEET NUMBER: **S1.1**

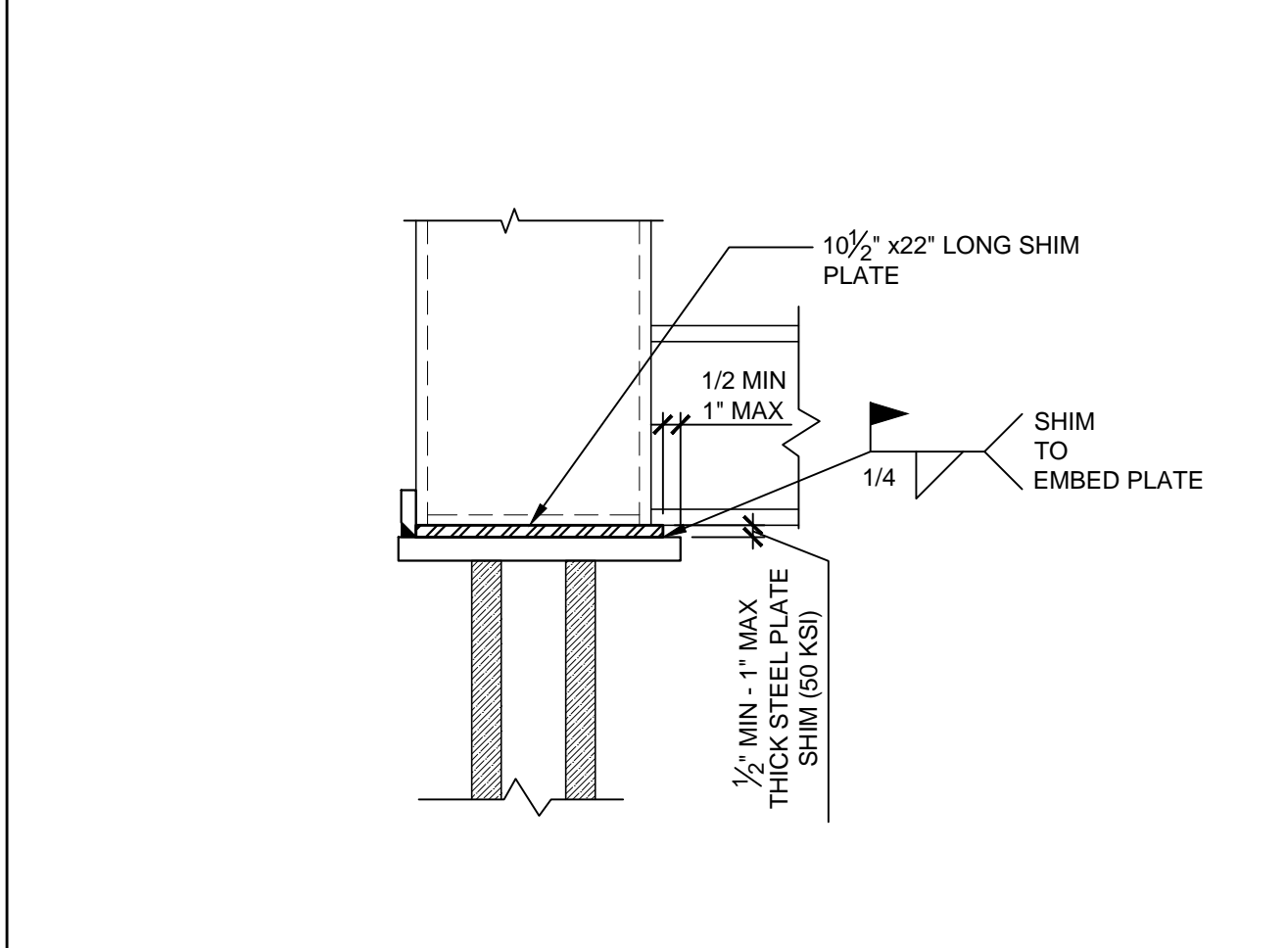
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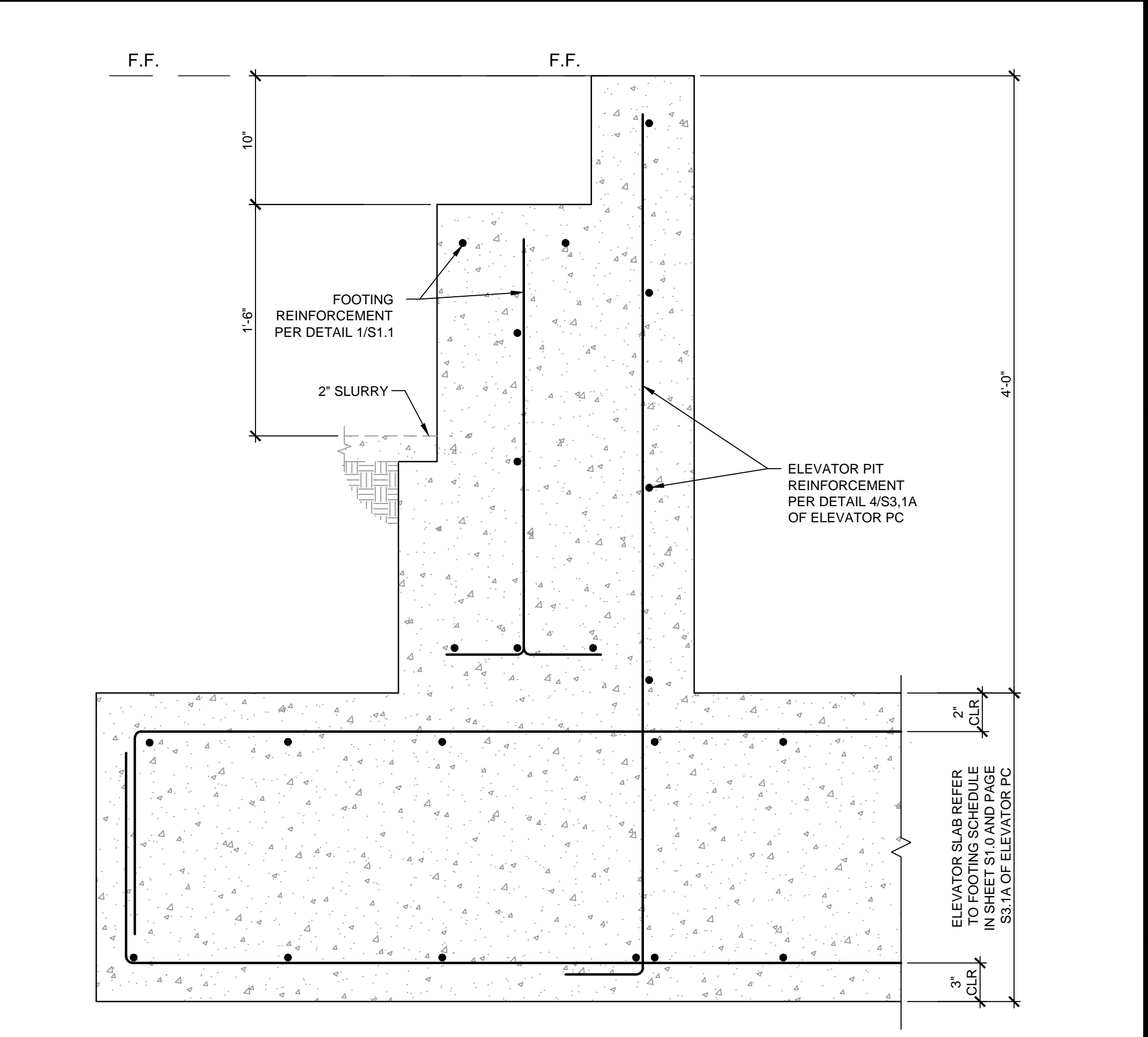
CORNER FOOTING DETAIL 1 SCALE: 1-1/2" = 1'-0"



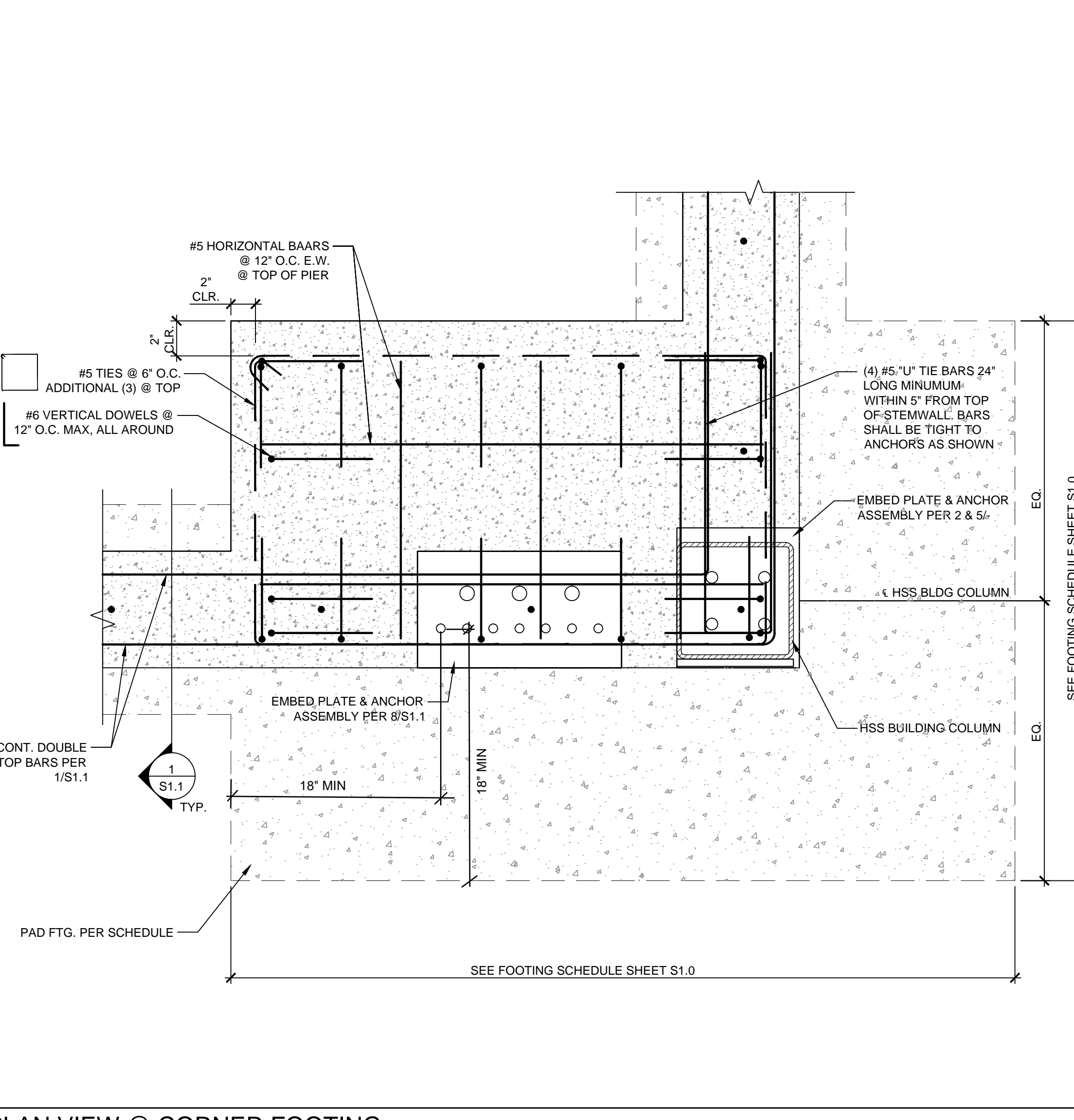
CORNER FOOTING ANCHORAGE PLAN DETAIL 2 SCALE: 1-1/2" = 1'-0"



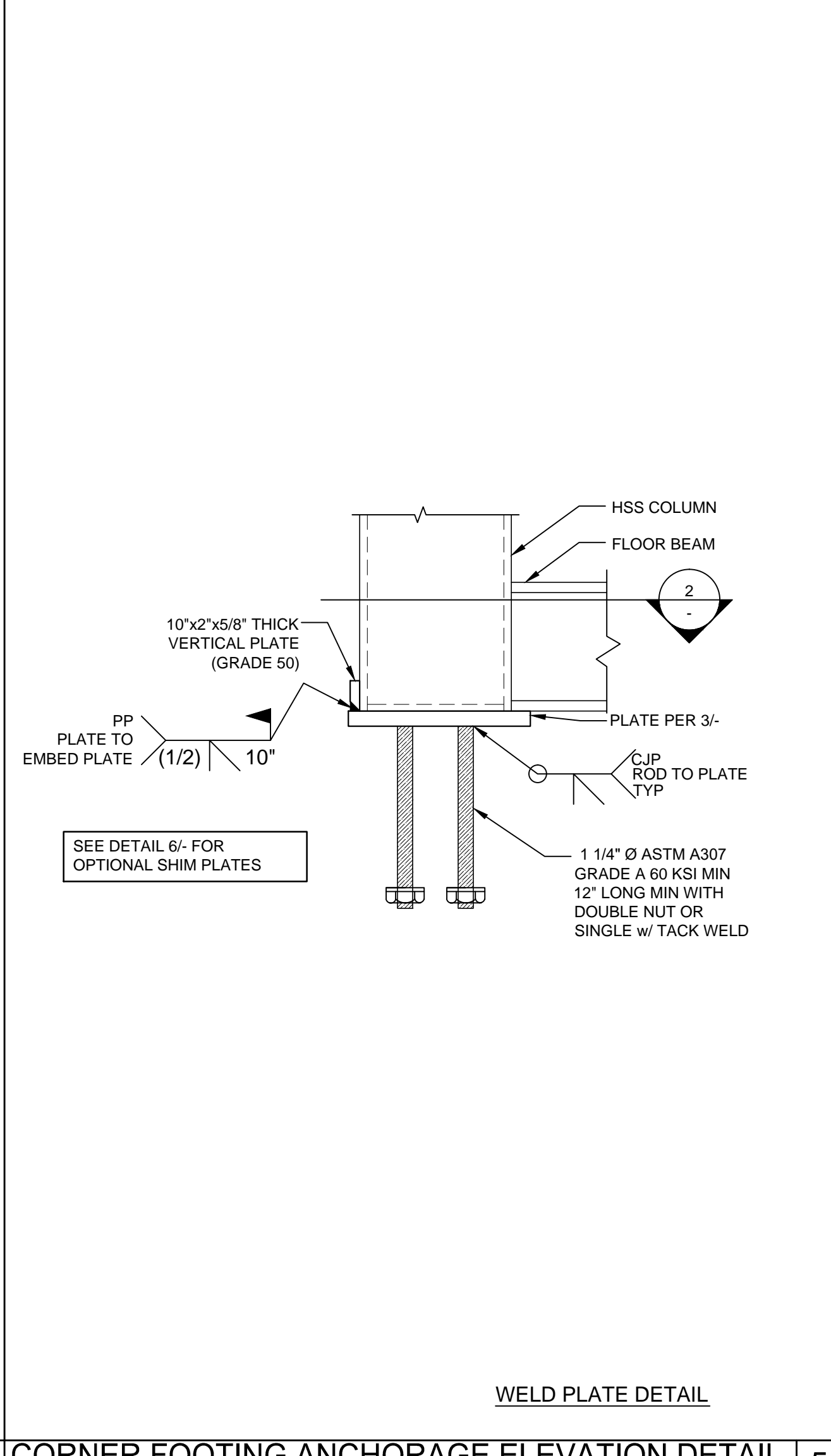
OPTIONAL SHIMS @ MODLINE & COMBINED FOOTING ANCHORAGE 3 SCALE: 1-1/2" = 1'-0"



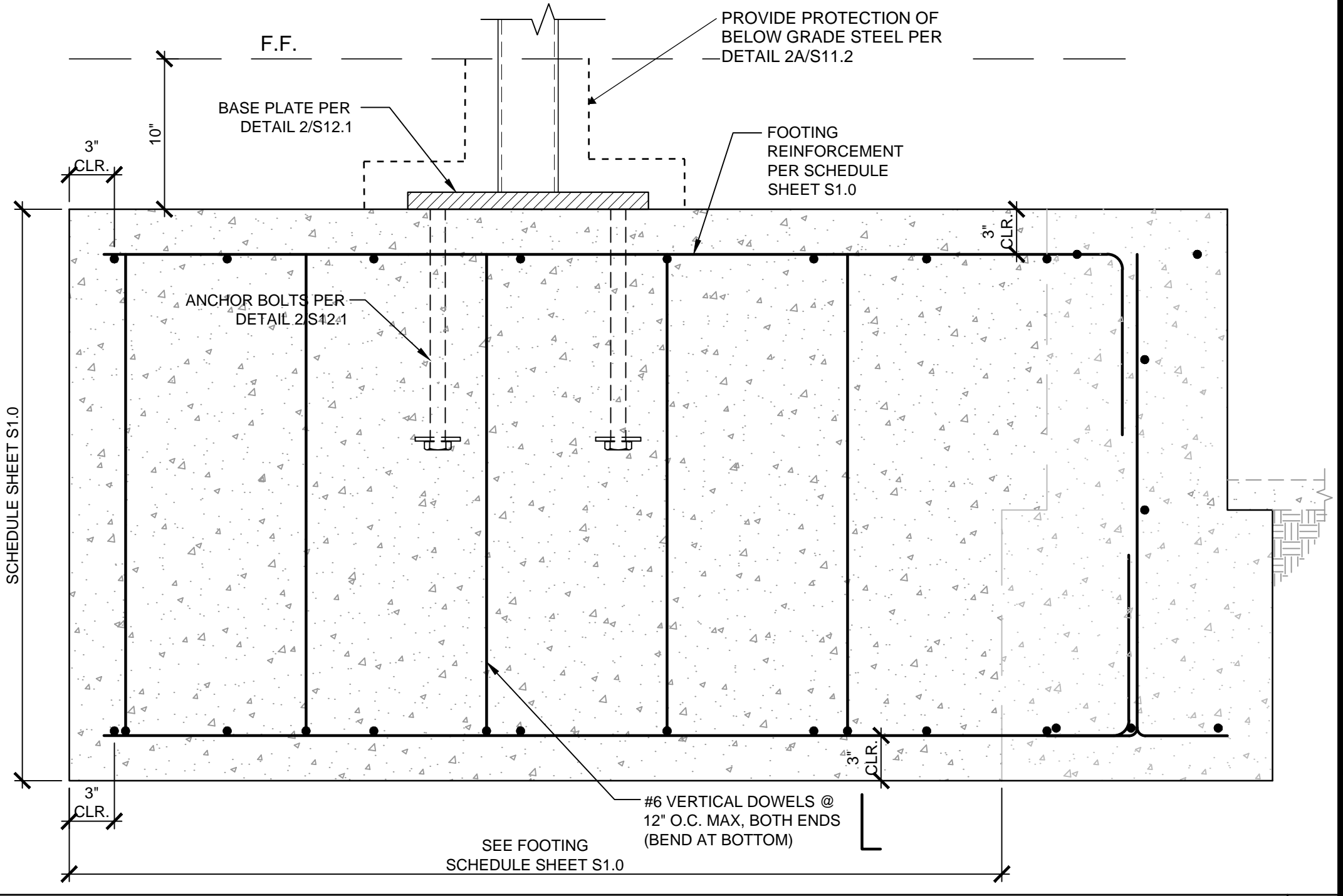
FOOTING SECTION 3A SCALE: 1-1/2" = 1'-0"



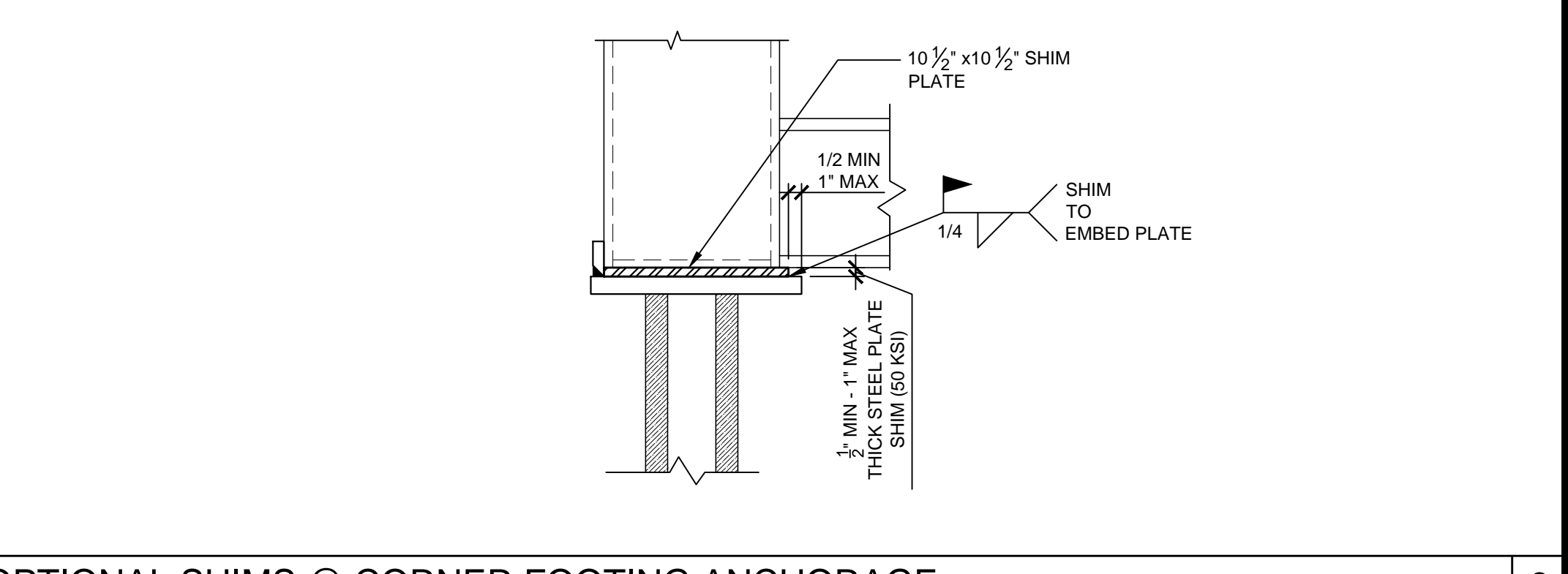
PLAN VIEW @ CORNER FOOTING 4 SCALE: 1-1/2" = 1'-0"



CORNER FOOTING ANCHORAGE ELEVATION DETAIL 5 SCALE: 1-1/2" = 1'-0"



FOOTING SECTION 5A SCALE: 1-1/2" = 1'-0"



OPTIONAL SHIMS @ CORNER FOOTING ANCHORAGE 6 SCALE: 1-1/2" = 1'-0"

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MANUFACTURER PROFESSIONAL OF RECORD ON PC

**Patricia Canino**  
REGISTERED ARCHITECT  
No. C12631  
Ren. 2/31/23  
STATE OF CALIFORNIA

**Manly D. Frick**  
REGISTERED PROFESSIONAL ENGINEER  
No. S3380  
STRUCTURAL  
STATE OF CALIFORNIA

09/20/2021  
RST#20203

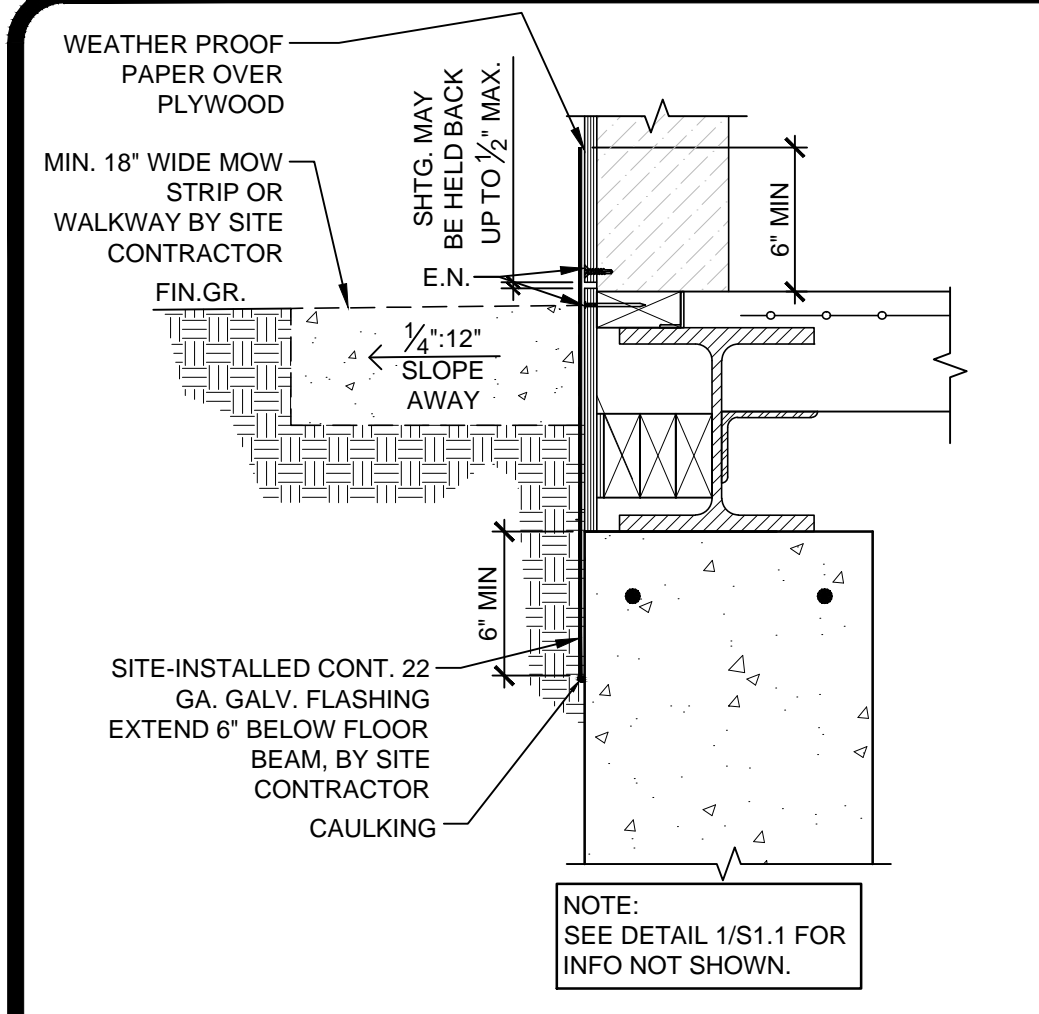
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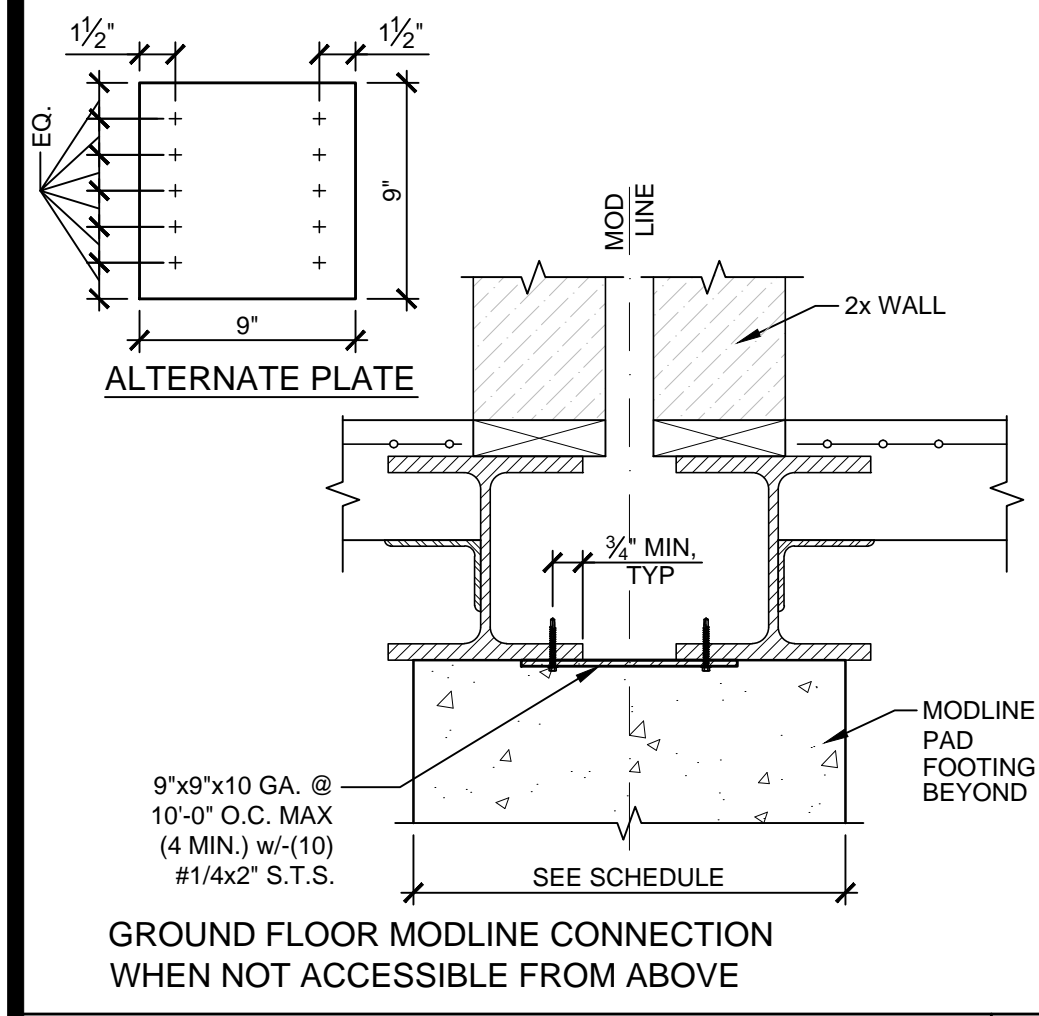
DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20  
SHEET TITLE:  
**FOUNDATION DETAILS**  
SHEET NUMBER:

**S1.2**

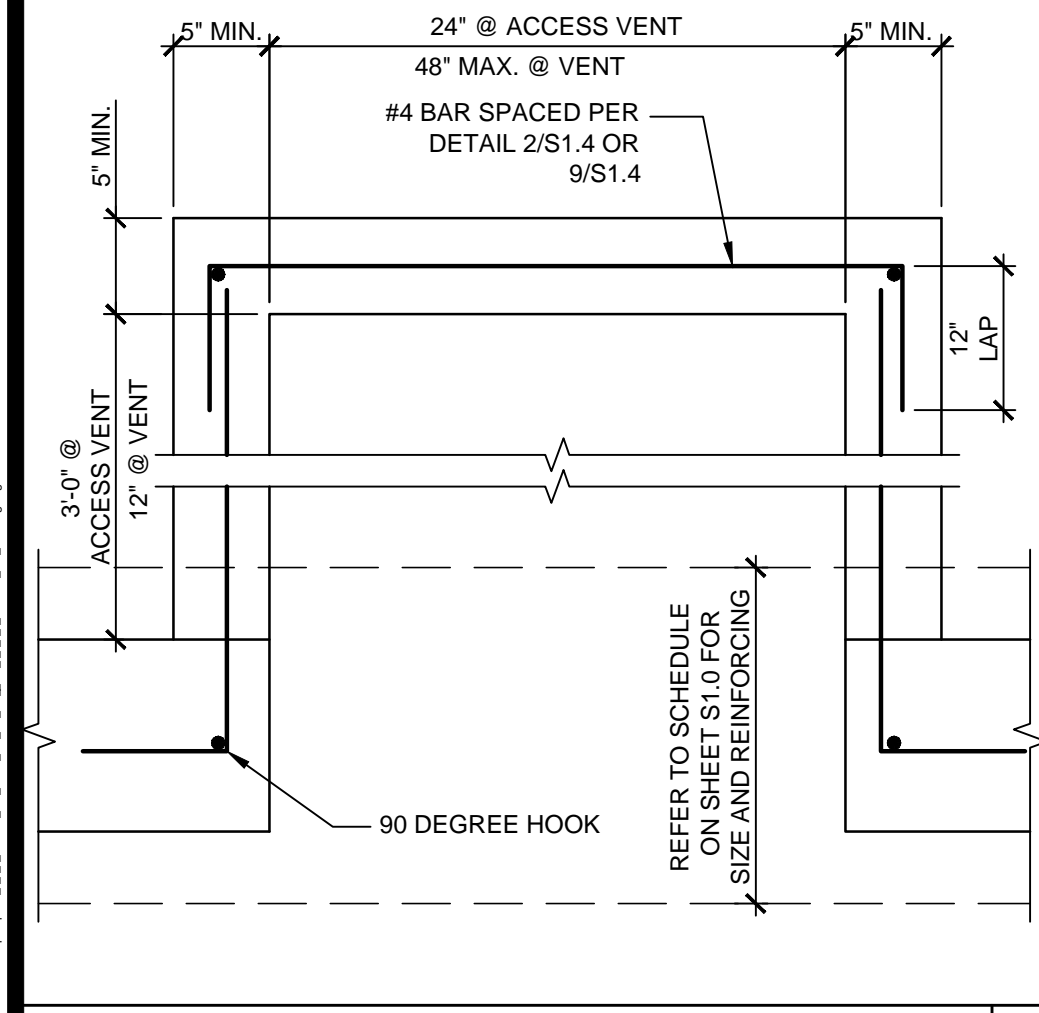
BID SET 10/01/2021



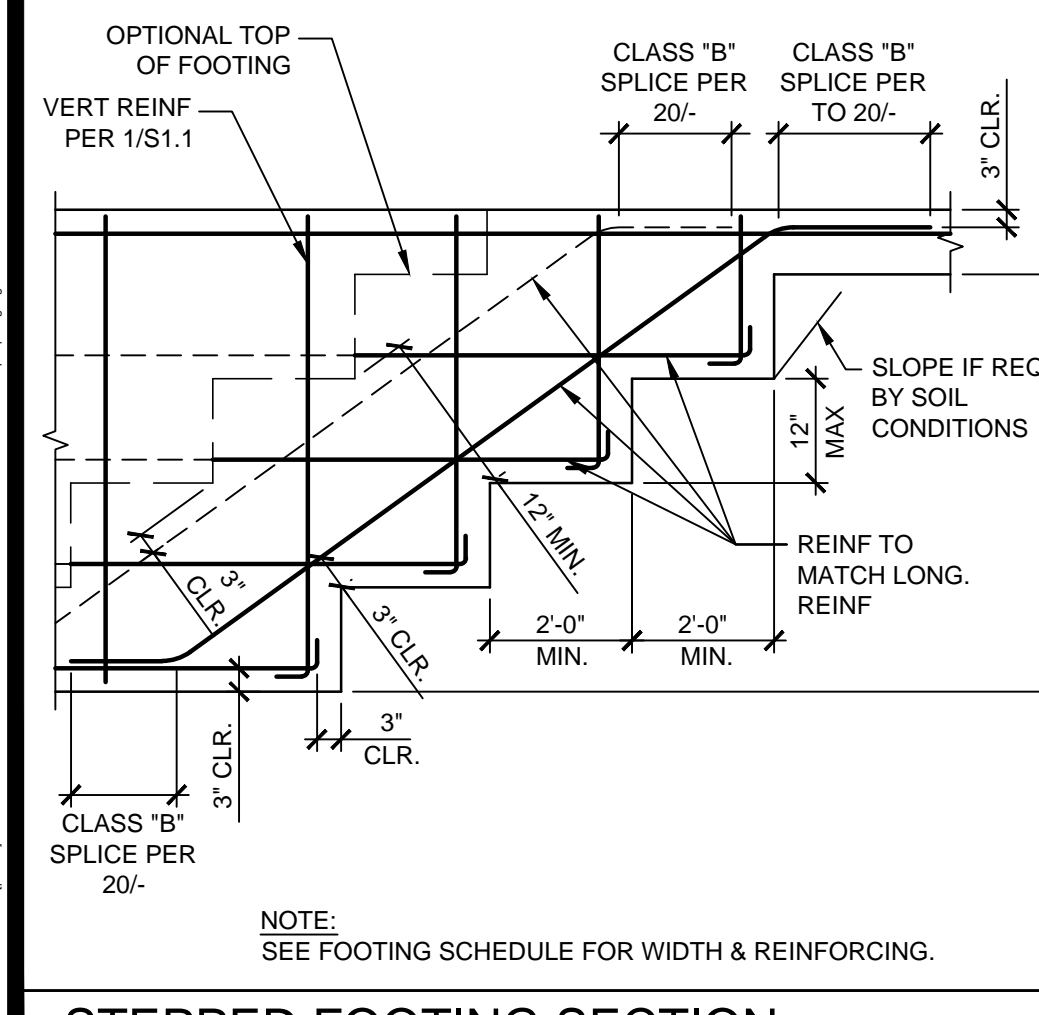
TYP. FLASHING DETAIL SCALE: 1-1/2" = 1'-0" 1



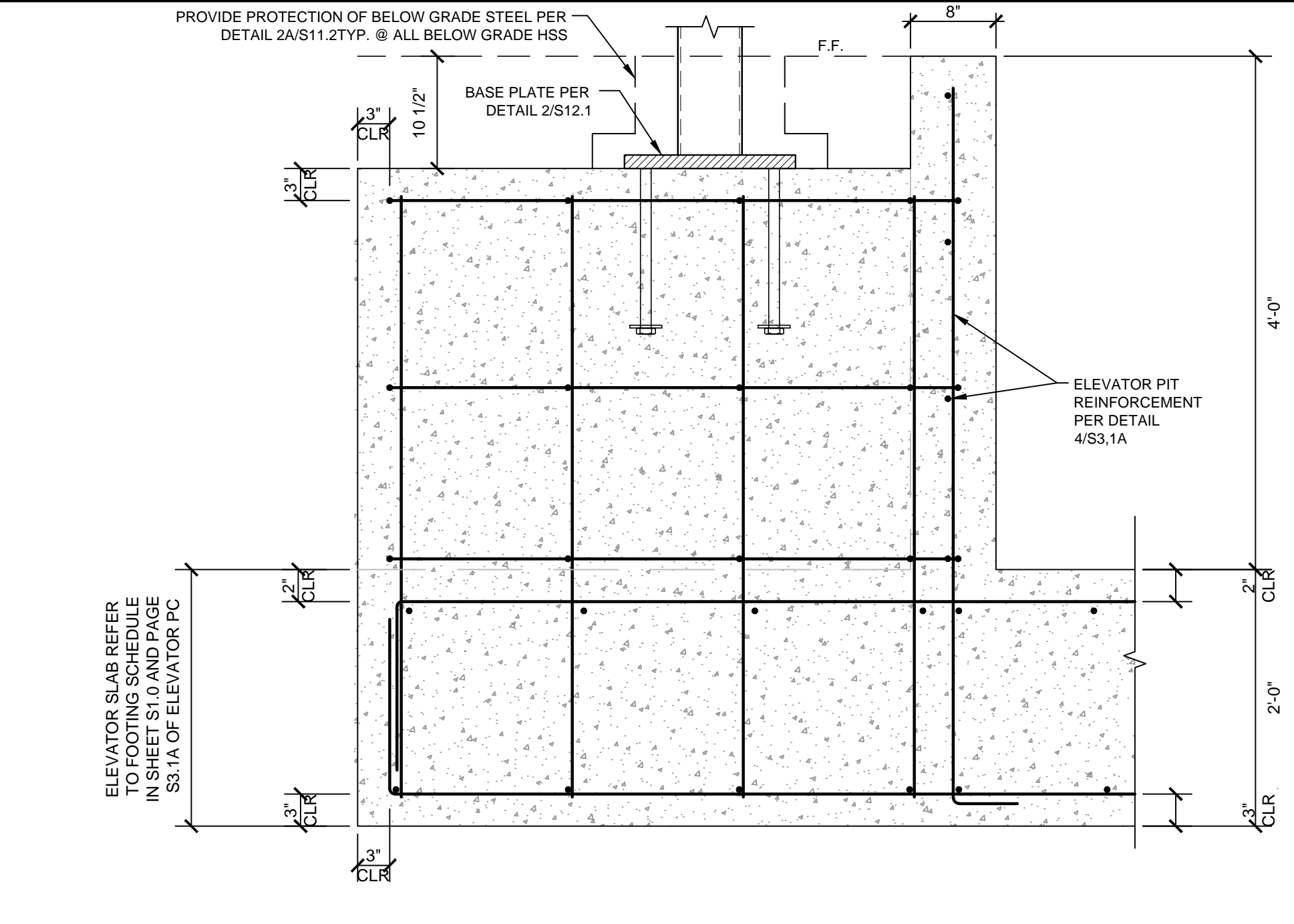
GROUND FLOOR MODLINE ALTERNATE CONNECTION SCALE: 1-1/2" = 1'-0" 6



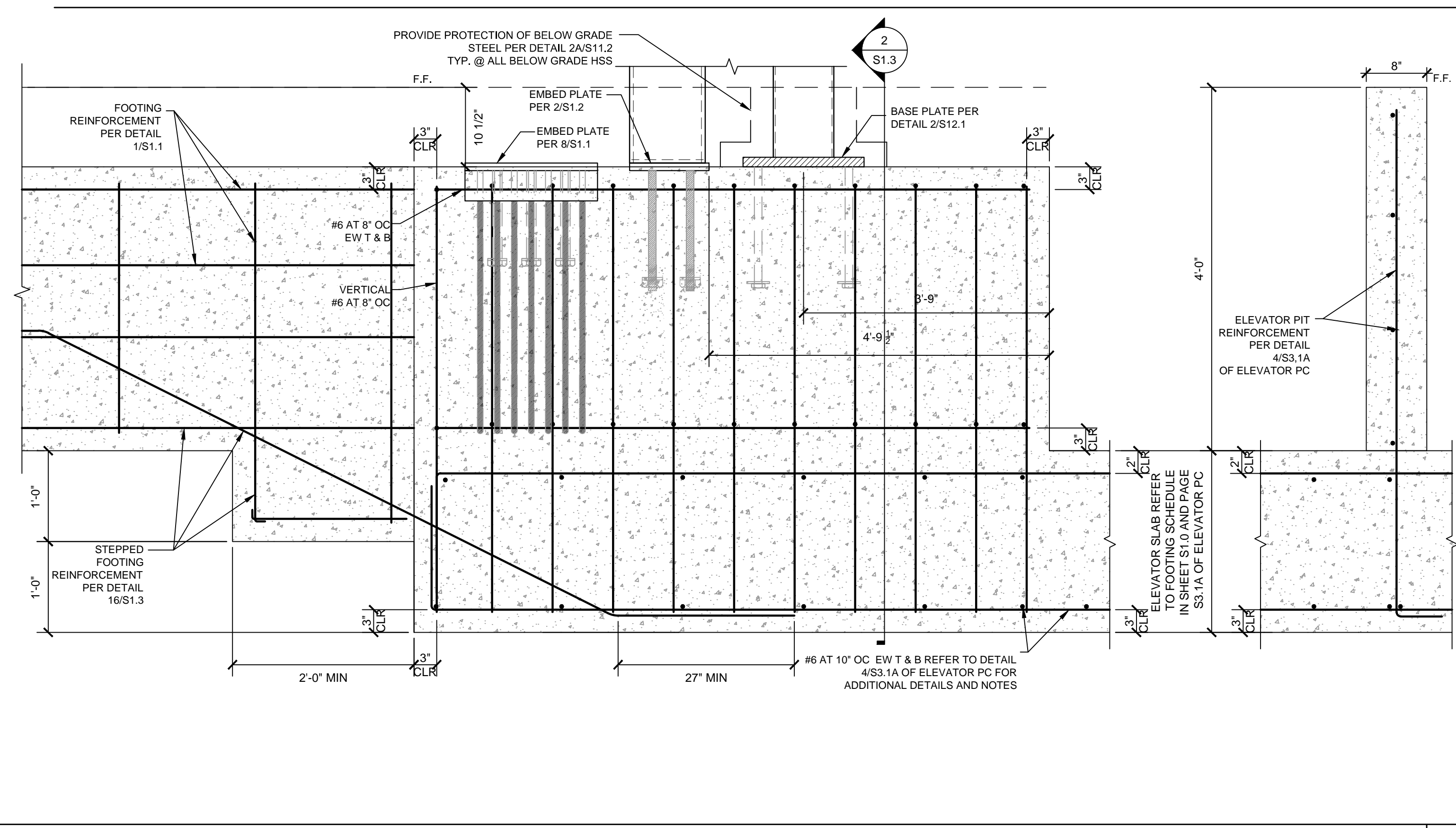
REBAR PLAN @ ACCESS/VENT SCALE: 1-1/2" = 1'-0" 11



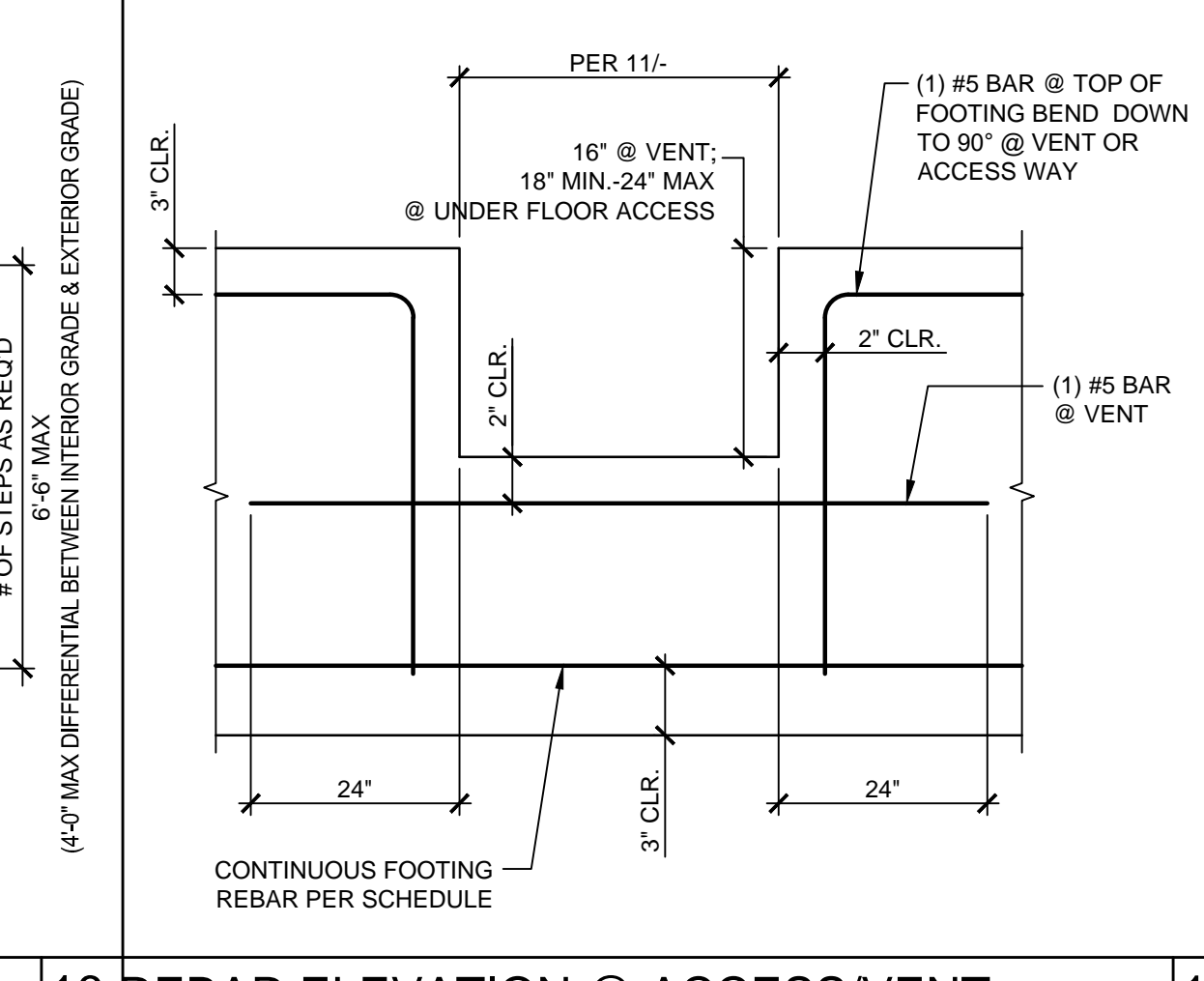
STEPPED FOOTING SECTION N.T.S.



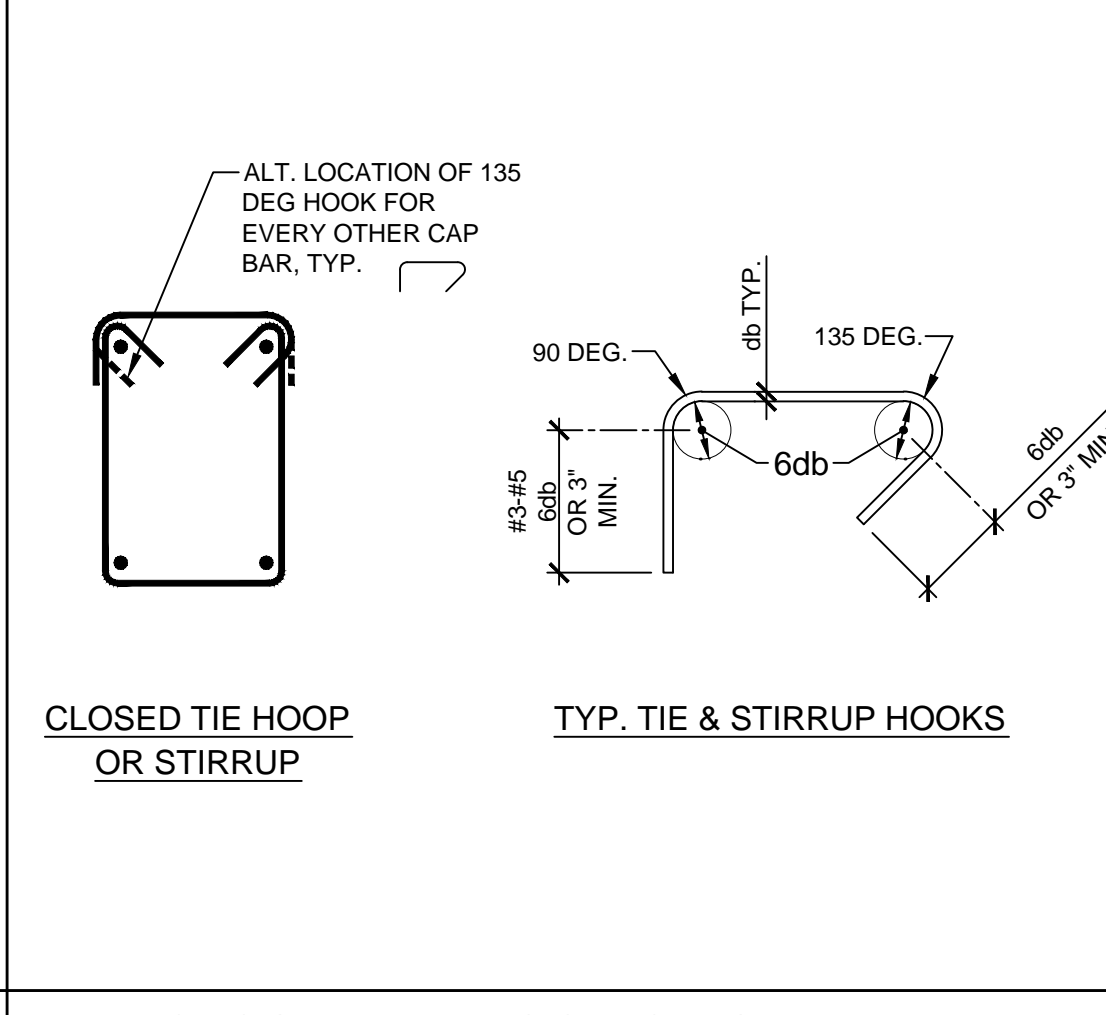
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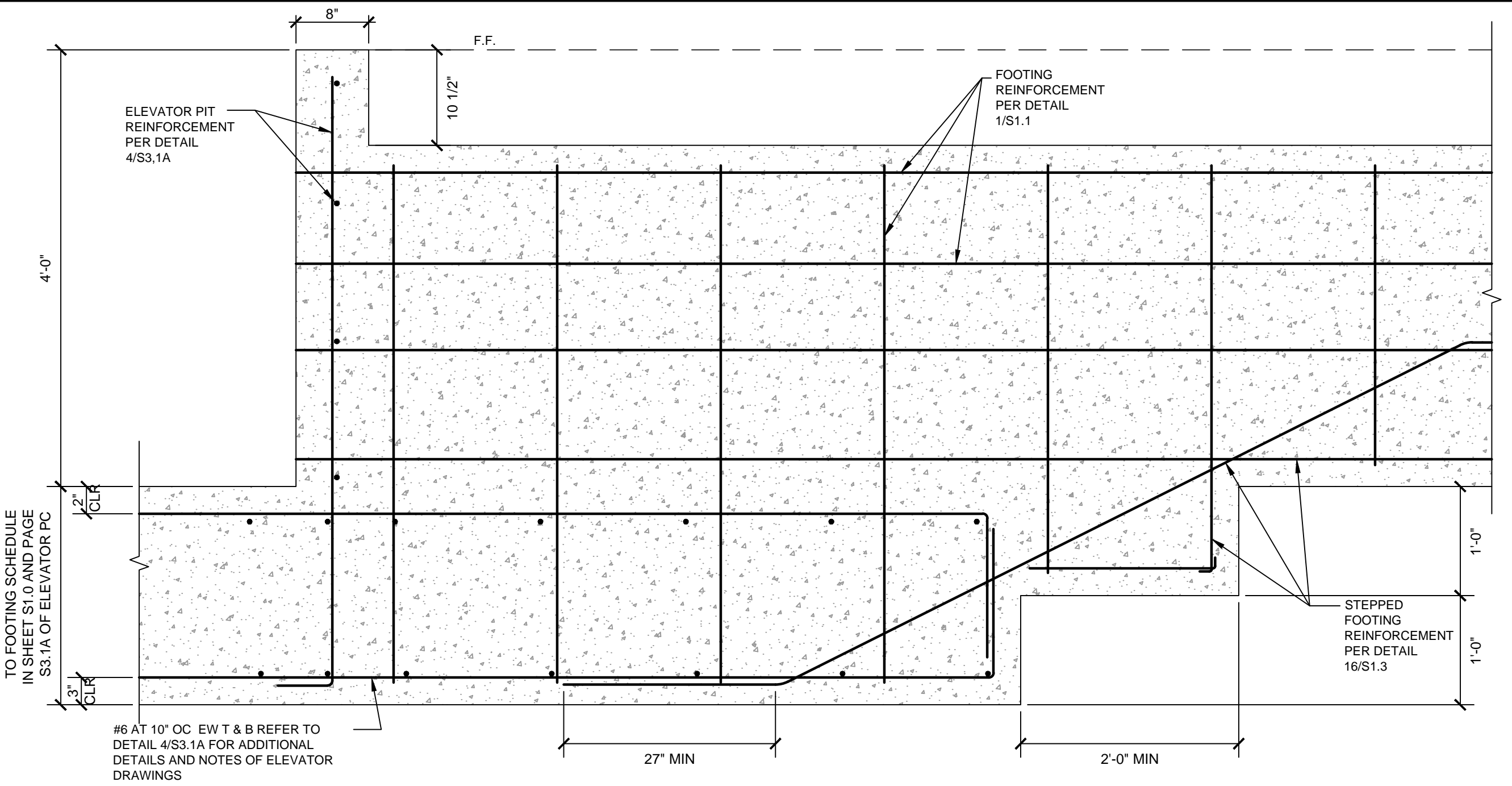
FOOTING SECTION SCALE: 1" = 1'-0" 4



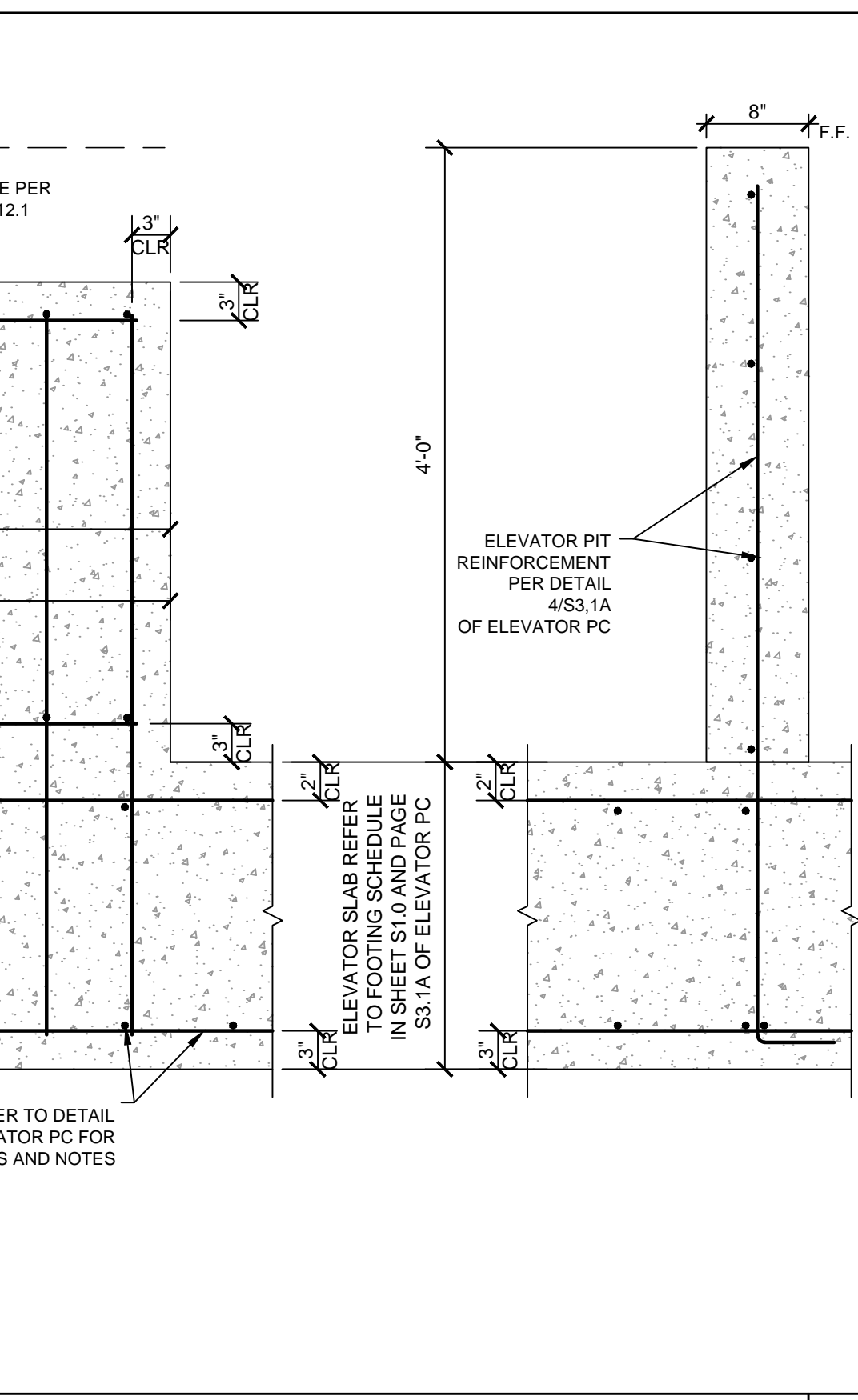
REBAR ELEVATION @ ACCESS/VENT N.T.S. 16



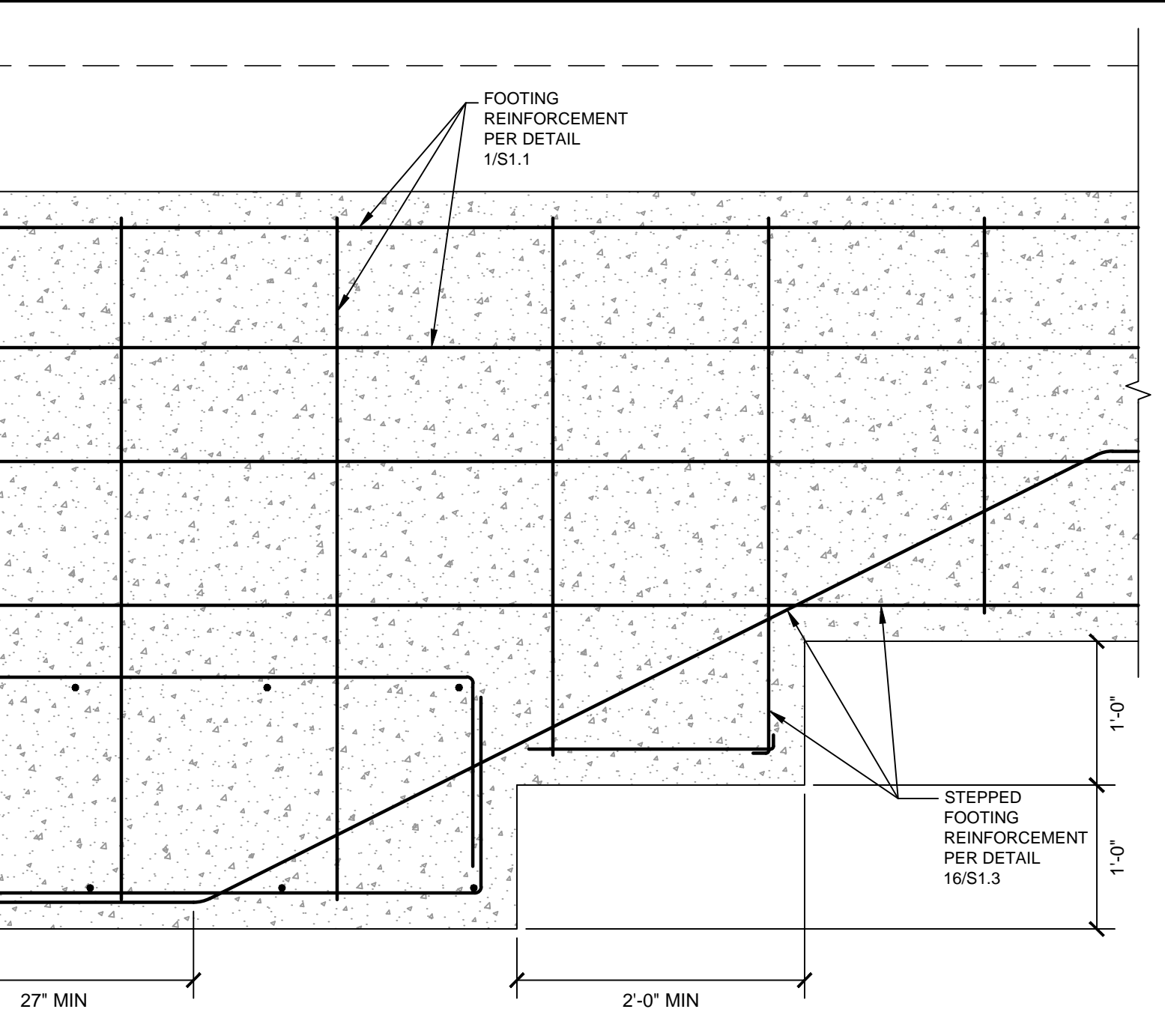
TYP. CLOSED TIE HOOP OR STIRRUP N.T.S. 12



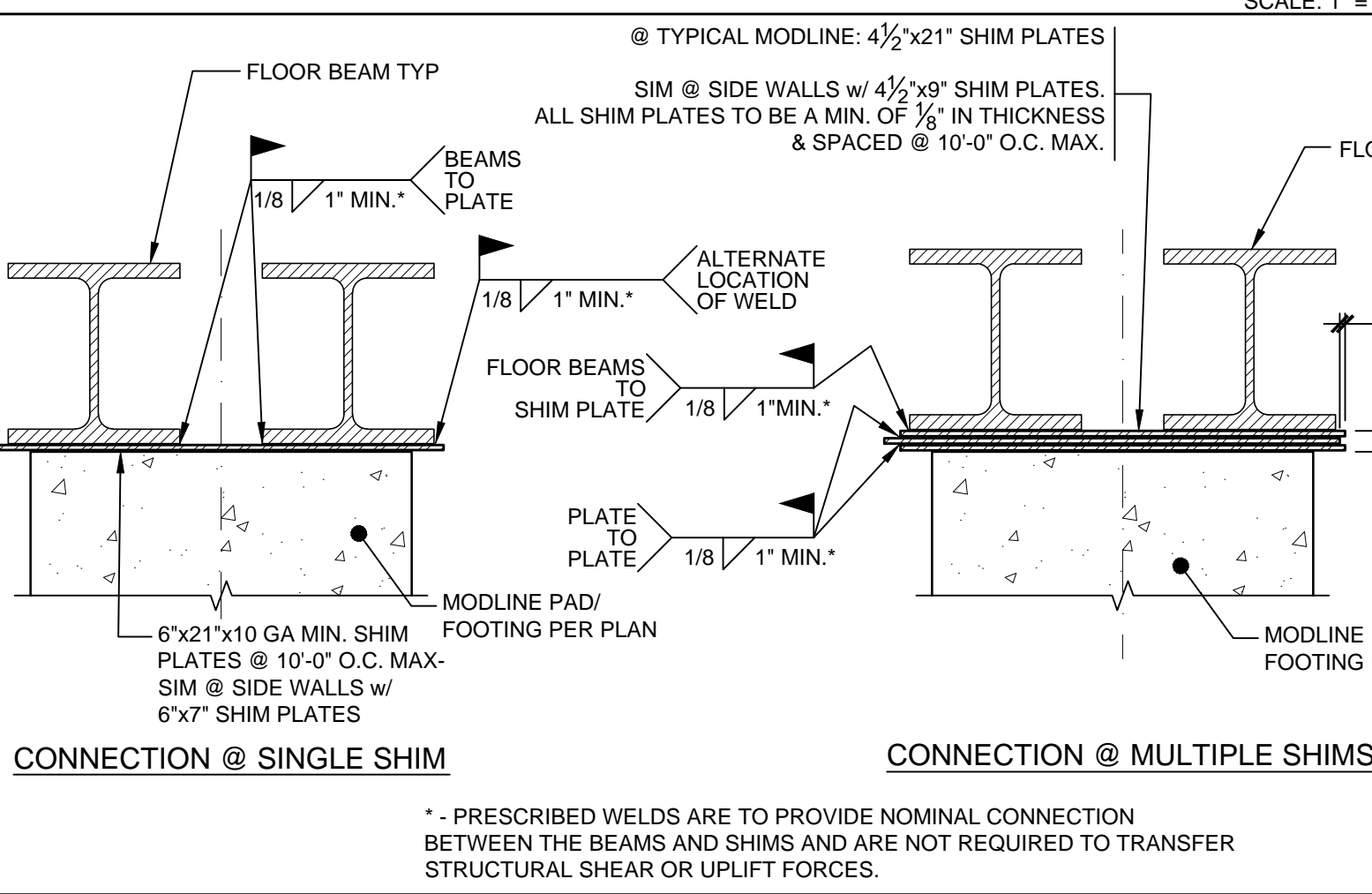
FOOTING SECTION



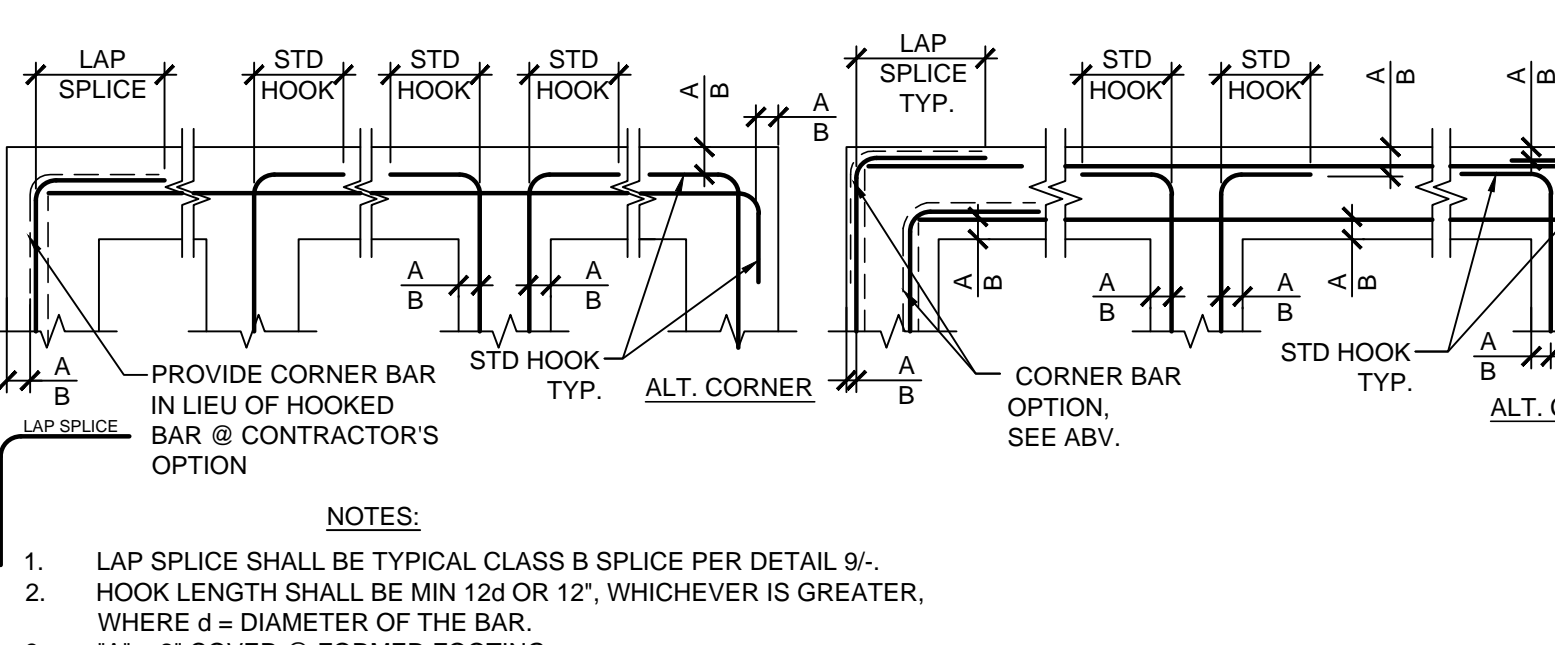
FOOTING SECTION SCALE: 1" = 1'-0" 4



SHIM PLATES @ FLOOR BEAMS SCALE: 1-1/2" = 1'-0" 5



SHIM PLATES @ FLOOR BEAMS SCALE: 1-1/2" = 1'-0" 5



REINFORCEMENT BARS SPLICES & BENDS AND BAR LAP SCHEDULE N.T.S. 13

BAR SIZE #	DEVELOPMENT LENGTH <sup>3</sup>			TYPICAL CLASS B LAP SPLICE LENGTH <sup>4</sup>			
	3000 PSI (IN)	3500 PSI (IN)	4000 PSI (IN)	3000 PSI		4000 PSI	
	TOP <sup>1</sup> (IN)	BOTTO M (IN)	TOP <sup>1</sup> (IN)	BOTTO M (IN)	TOP <sup>1</sup> (IN)	BOTTO M (IN)	
3	13	12	12	21	16	20	16
4	17	16	15	28	22	26	20
5	21	20	18	35	27	33	25
6	25	23	22	42	32	39	30

REINFORCEMENT BARS SPLICES & BENDS AND BAR LAP SCHEDULE N.T.S. 13

**AMS**  
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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD ON PC  
**LICENCED ARCHITECT PATRICK CANNON No. C12631 Ren. 2-31-23 STATE OF CALIFORNIA**

**REGISTERED PROFESSIONAL ENGINEER MANNY D. FROST No. S3380 STRUCTURAL STATE OF CALIFORNIA**

09/20/2021  
RST#20203  
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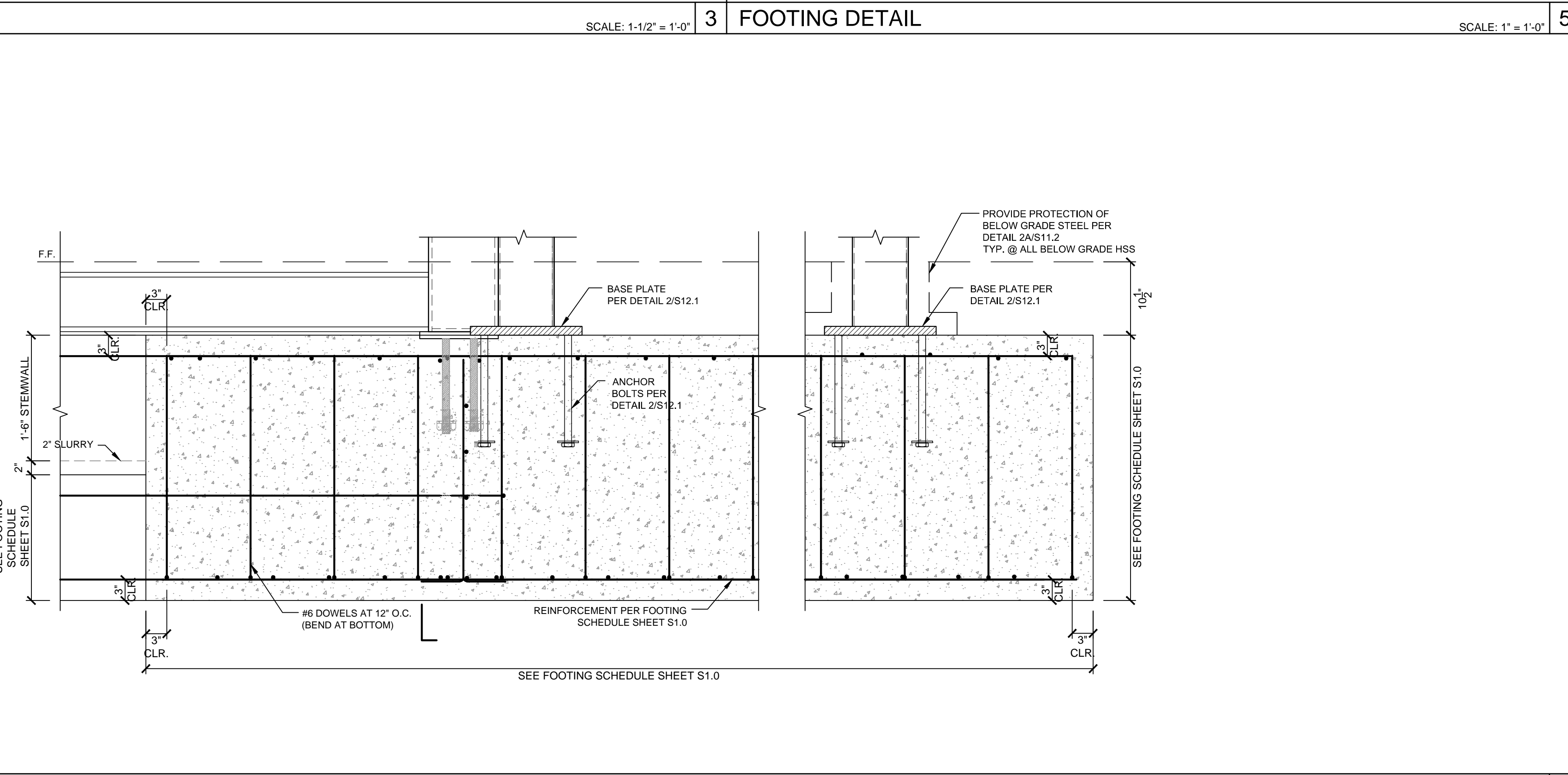
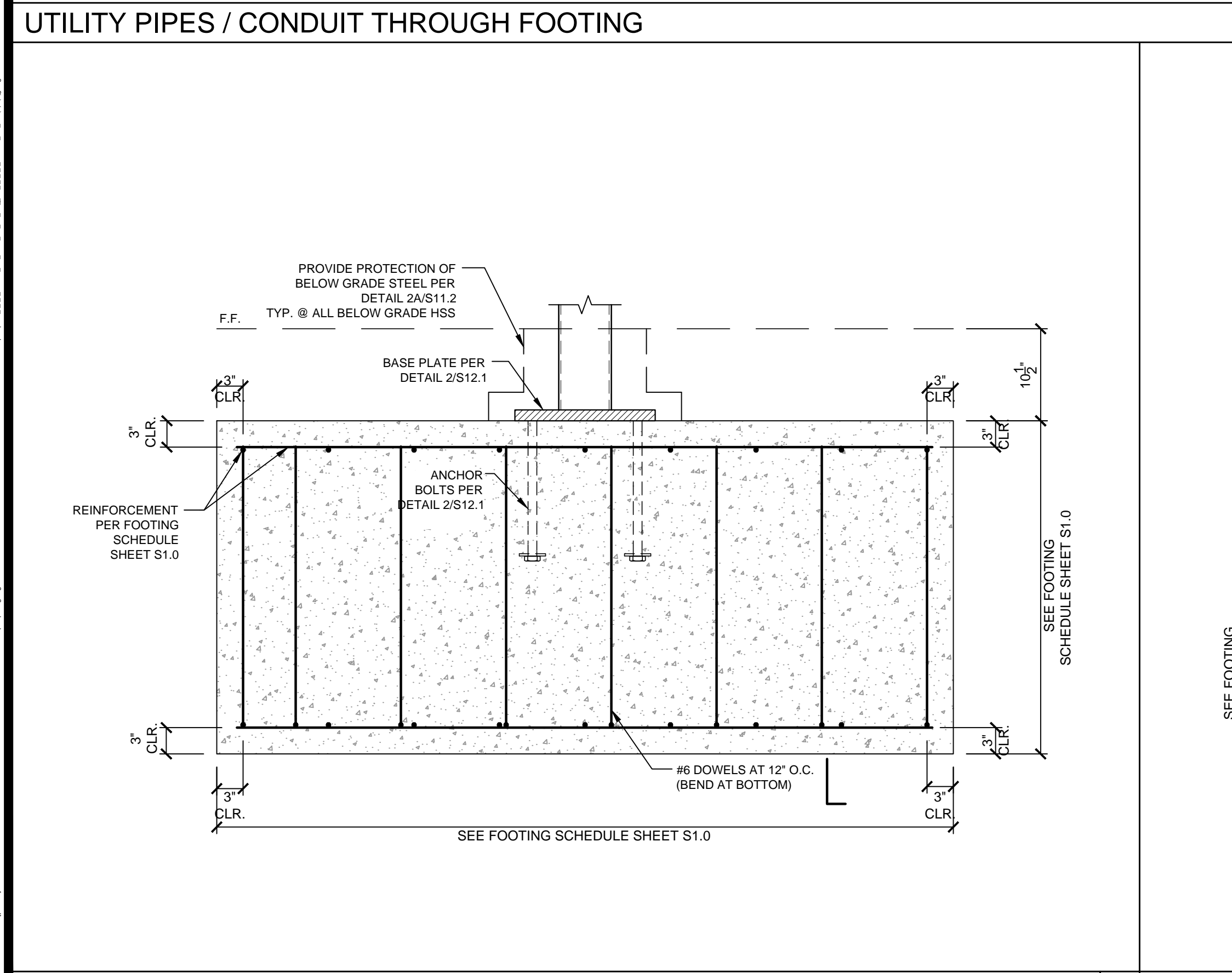
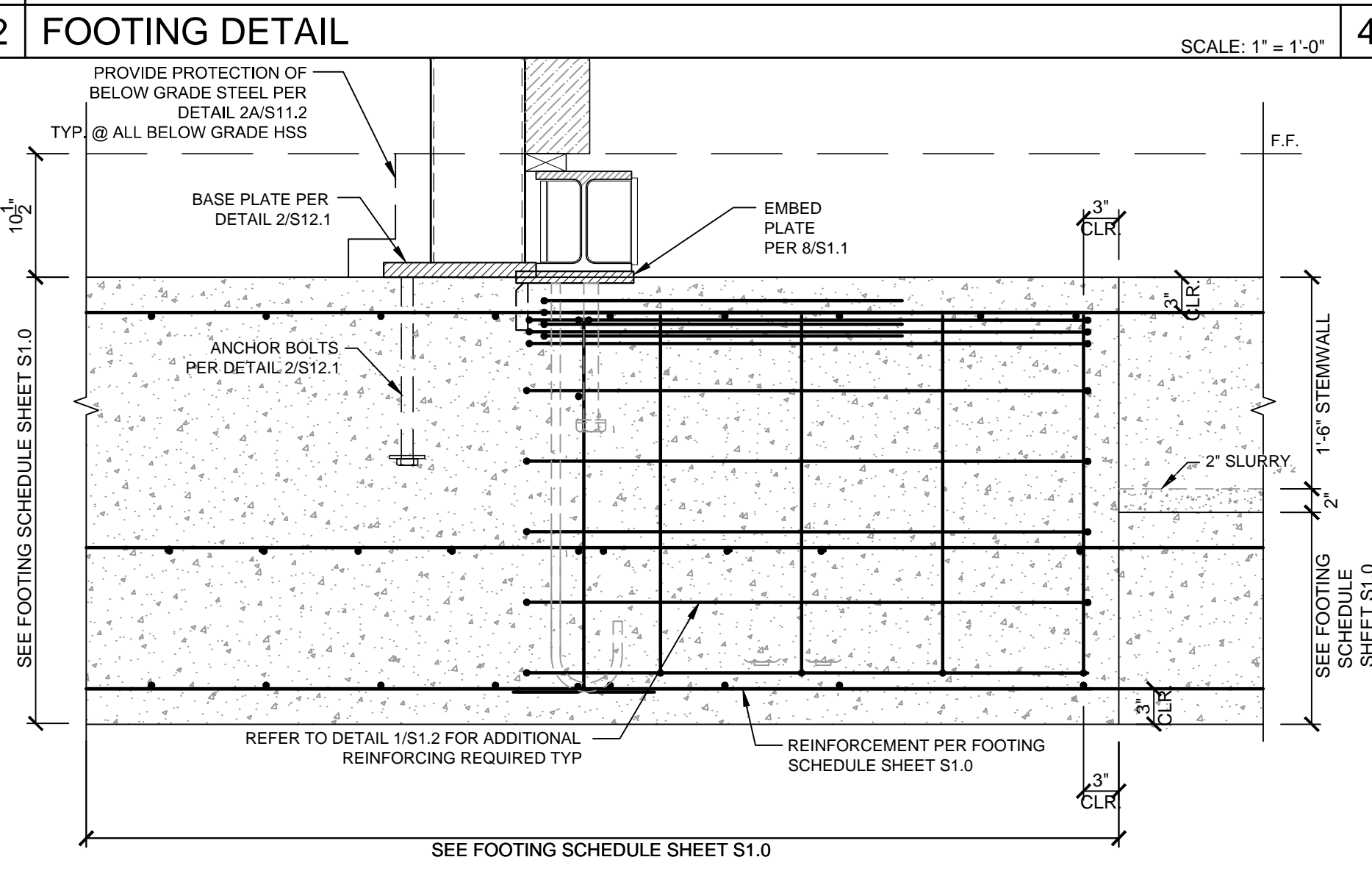
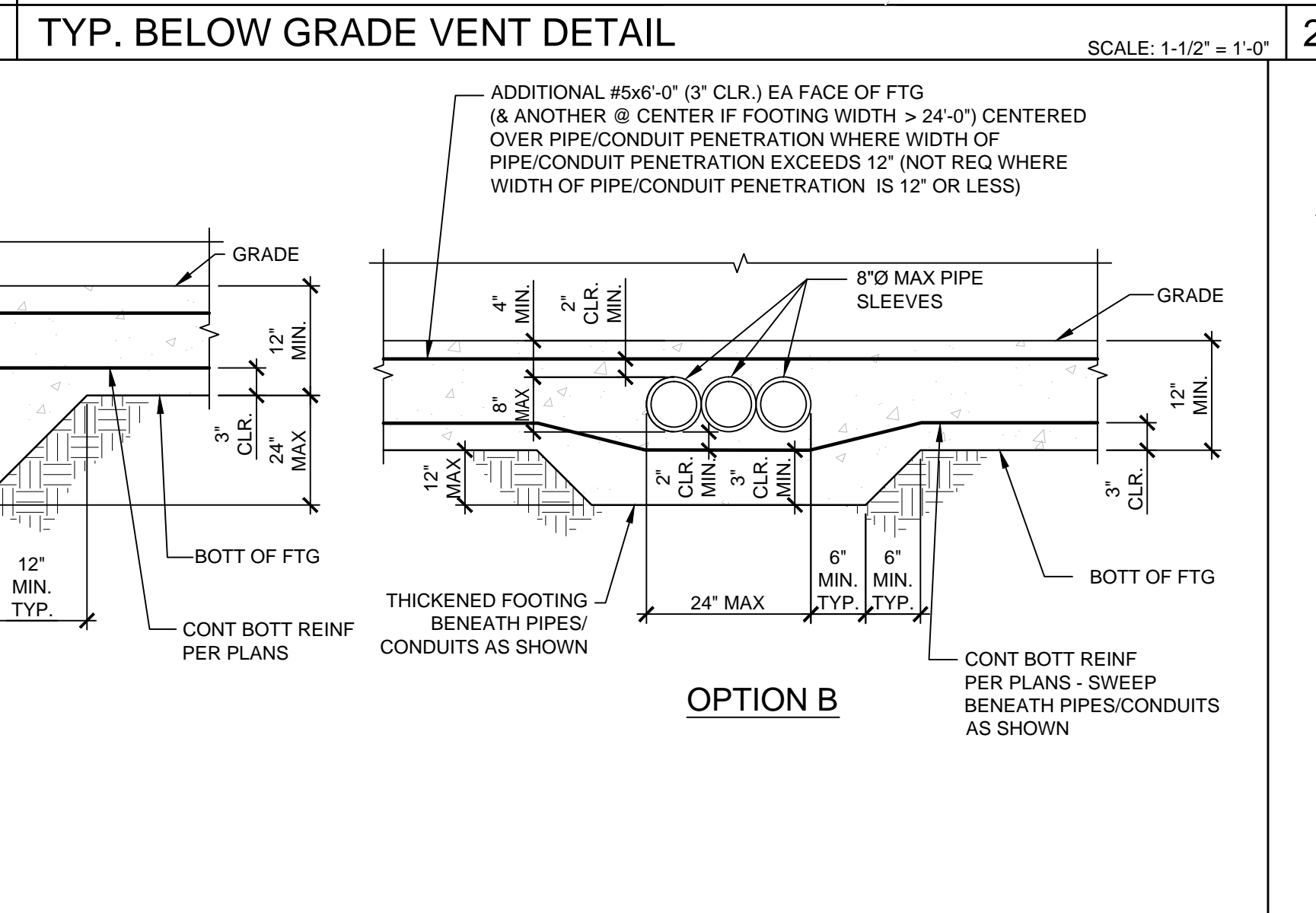
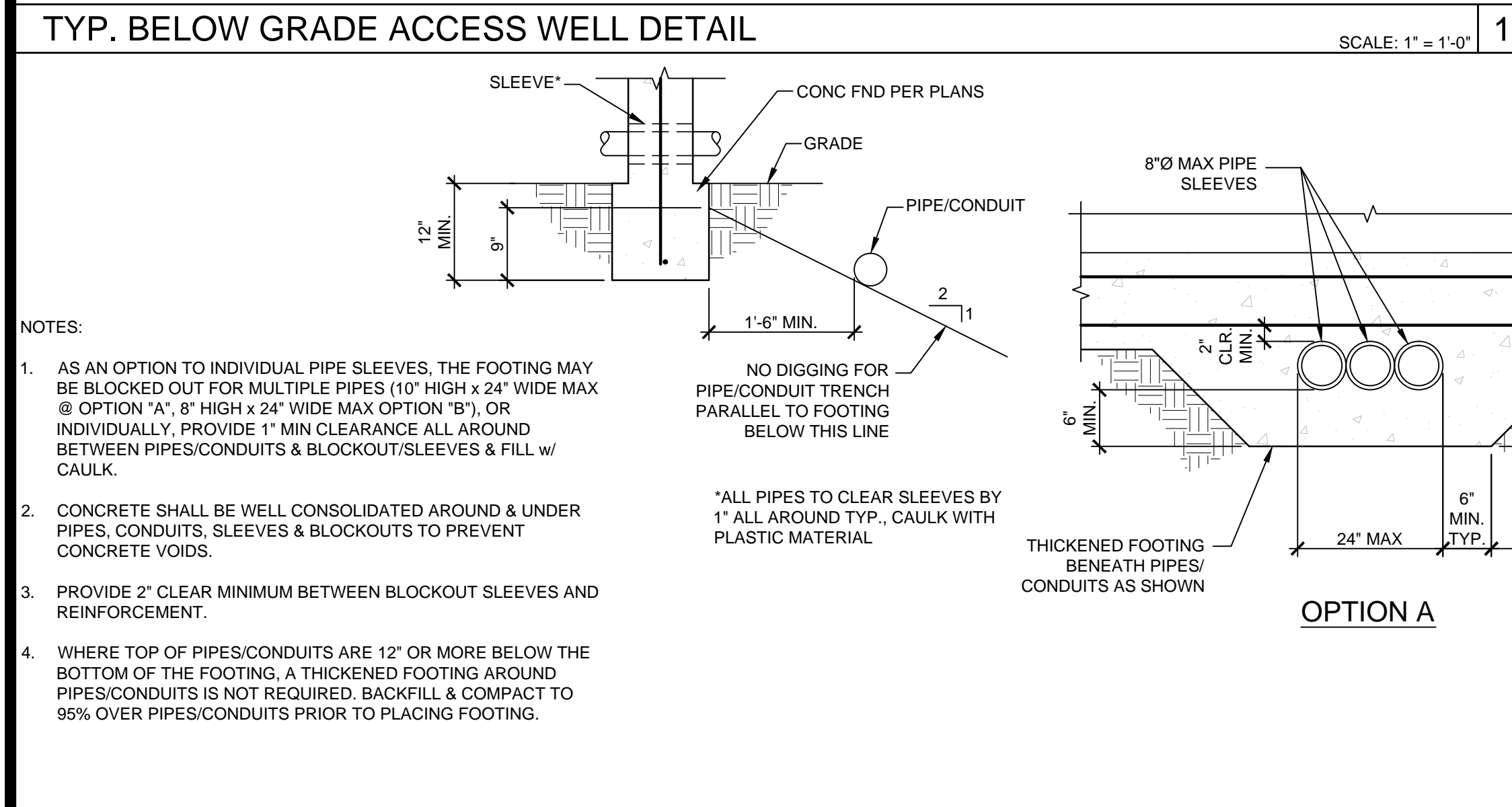
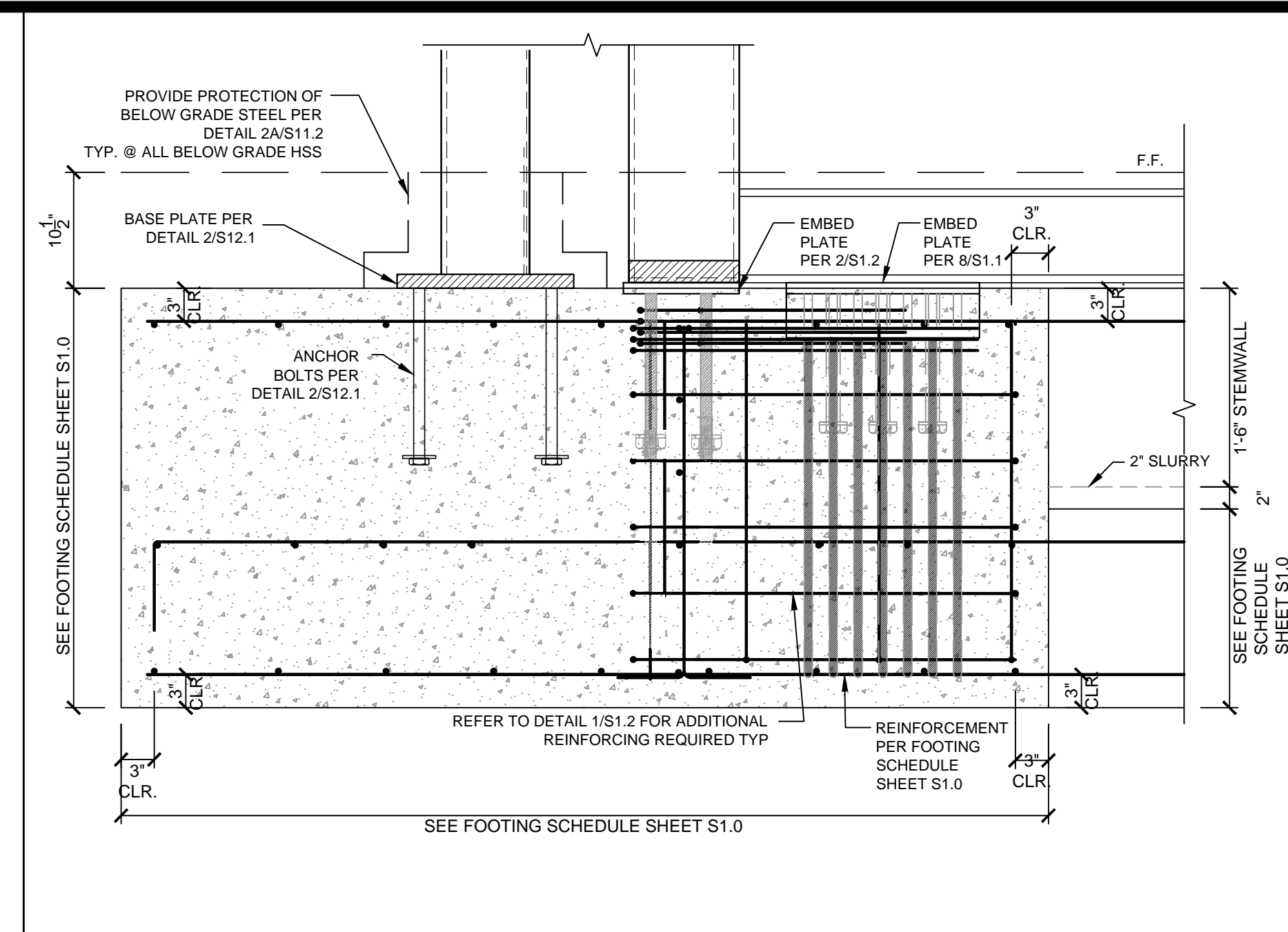
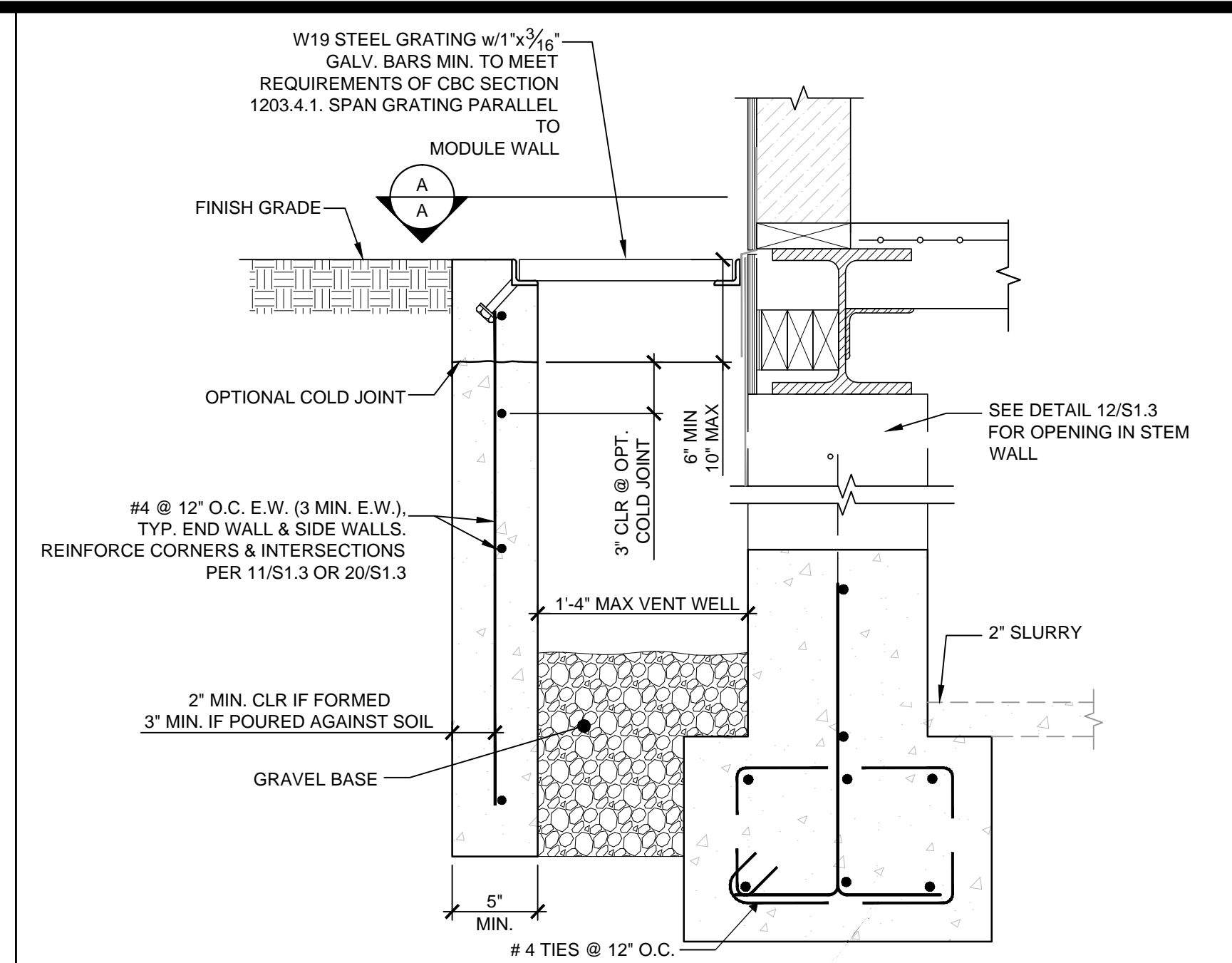
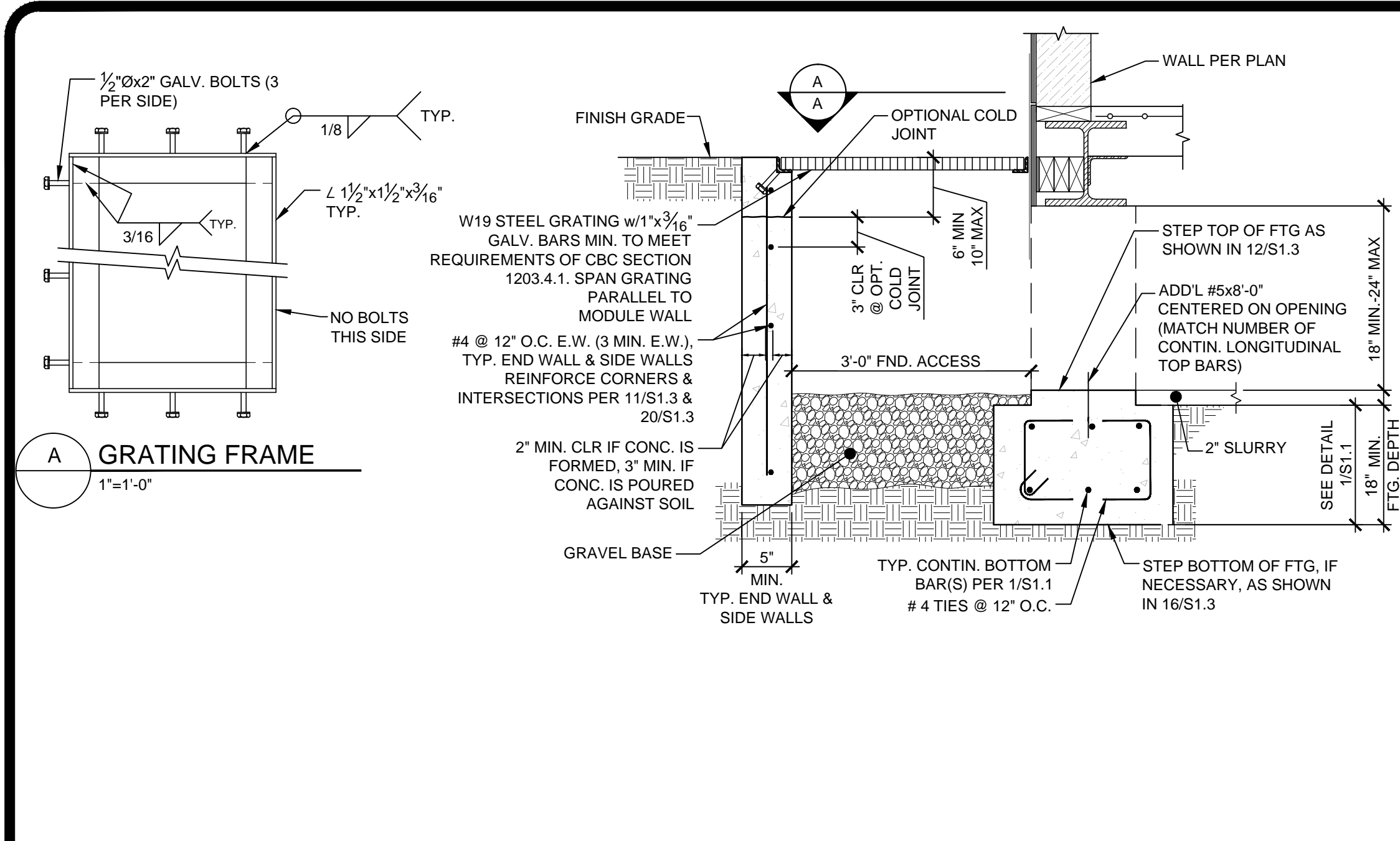
REVISIONS


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20  
SHEET TITLE:  
**FOUNDATION DETAILS**  
SHEET NUMBER:

**S1.3**

BID SET 10/01/2021





**AMS**  
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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD ON PC  
**REGISTERED ARCHITECT PATRICK CANNON No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA**

**REGISTERED PROFESSIONAL ENGINEER HANVY D. FROST No. S3380 STRUCTURAL STATE OF CALIFORNIA**

09/20/2021  
 RST#20203

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REVISIONS

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△	

DRAWN BY: AH  
 SCALE: AS NOTED  
 DATE: 07/05/21  
 PROJECT NO: 1614-20  
 SHEET TITLE:  
**FOUNDATION DETAILS**  
 SHEET NUMBER:

**S1.4**

BID SET 10/01/2021

- 1 FLOOR BEAM PER SCHEDULE 3B/S5.0
- 2 HSS COLUMN PER SCHEDULE 3B/S5.0
- 3 2" LIGHT WEIGHT CONCRETE FILL w/ 6x6-W1.4xW1.4 WWF w/ 1'-0" LAP OVER ASC 18 GA 3W OR 3WH GALVANIZED DECK (5" TOTAL THICKNESS). SEE 4/S2.1 FOR DECK PROPERTIES AND ATTACHMENT PATTERN.

KEY NOTES

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SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD  

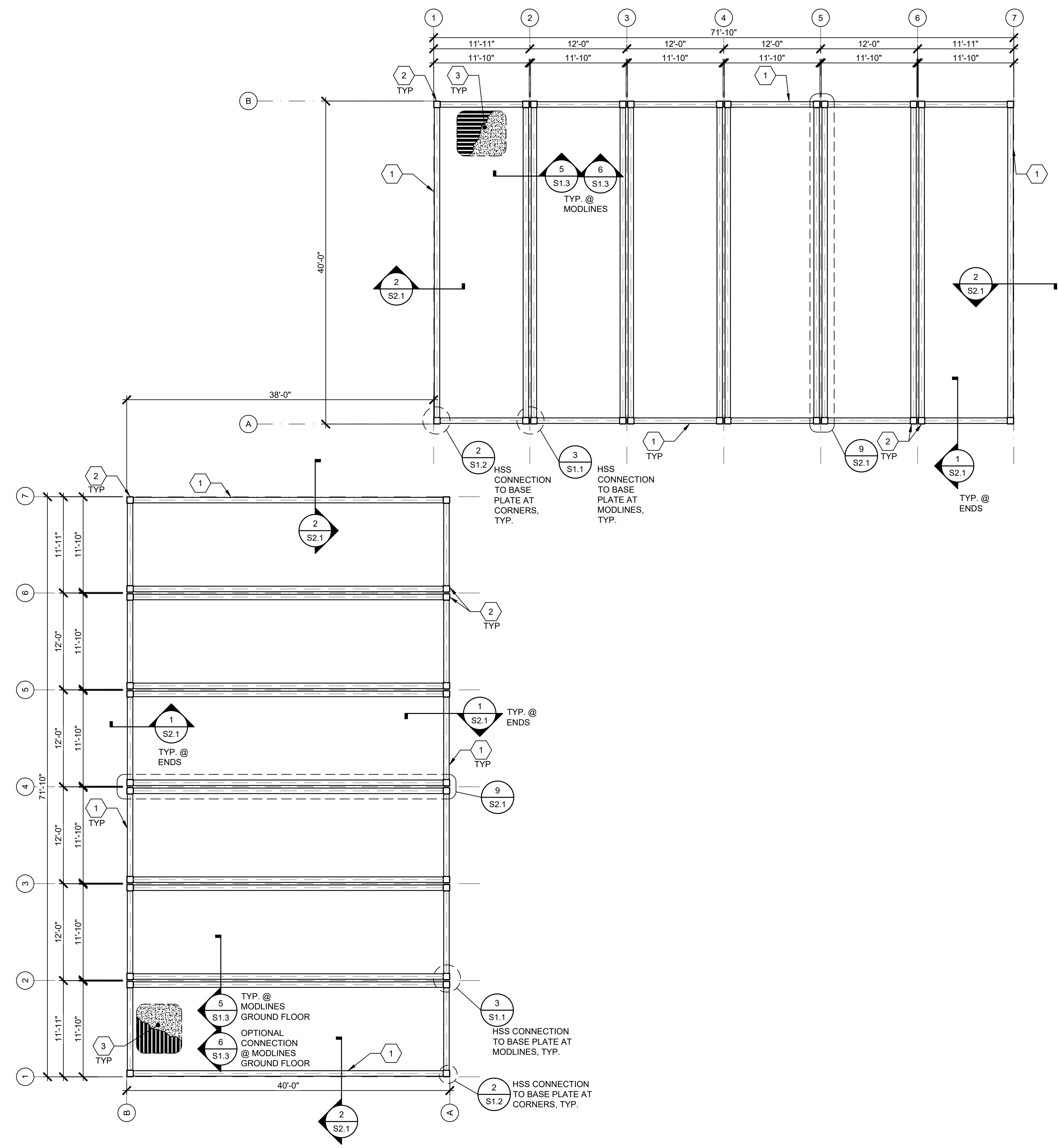

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REVISIONS


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 08/10/21  
PROJECT NO: 1613-20

SHEET TITLE:  
**FLOOR FRAMING PLAN GROUND FLOOR**

SHEET NUMBER:  
**S2.0**



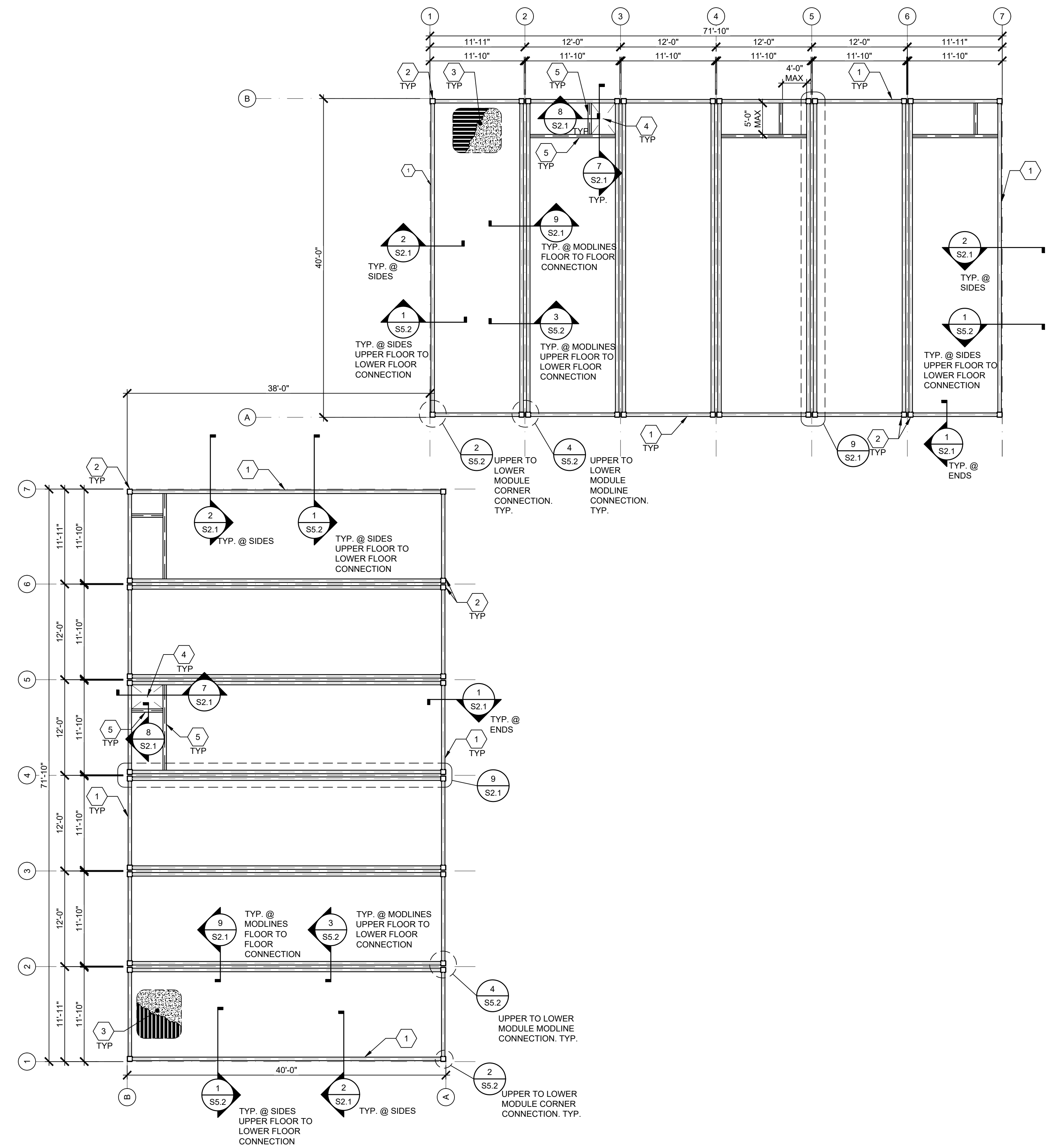
TYPICAL FLOOR FRAMING PLAN

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

BID SET 10/01/2021

- 1 FLOOR BEAM PER SCHEDULE 3B/S5.0
- 2 HSS COLUMN PER SCHEDULE 3B/S5.0
- 3 2" LIGHT WEIGHT CONCRETE FILL w/ 6x6-W1.4xW1.4 WWF w/ 1'-0" LAP OVER ASC 18 GA 3W OR 3WH GALVANIZED DECK (5" TOTAL THICKNESS). SEE 4/S2.1 FOR DECK PROPERTIES AND ATTACHMENT PATTERN.
- 4 FLOOR CHASE OPENING
- 5 W4x13 BEAM REINFORCEMENT AT OPENINGS

KEY NOTES



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SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD

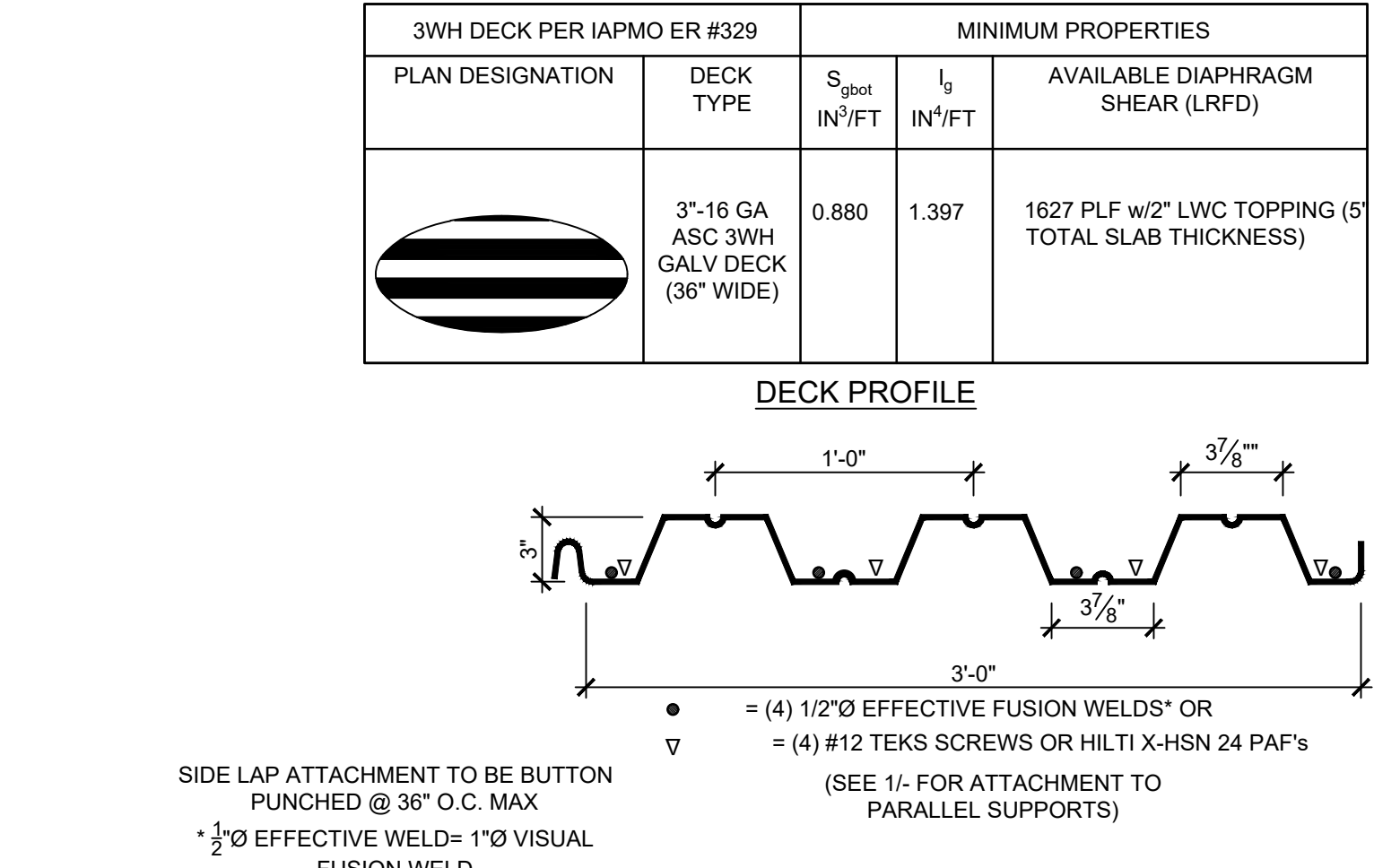
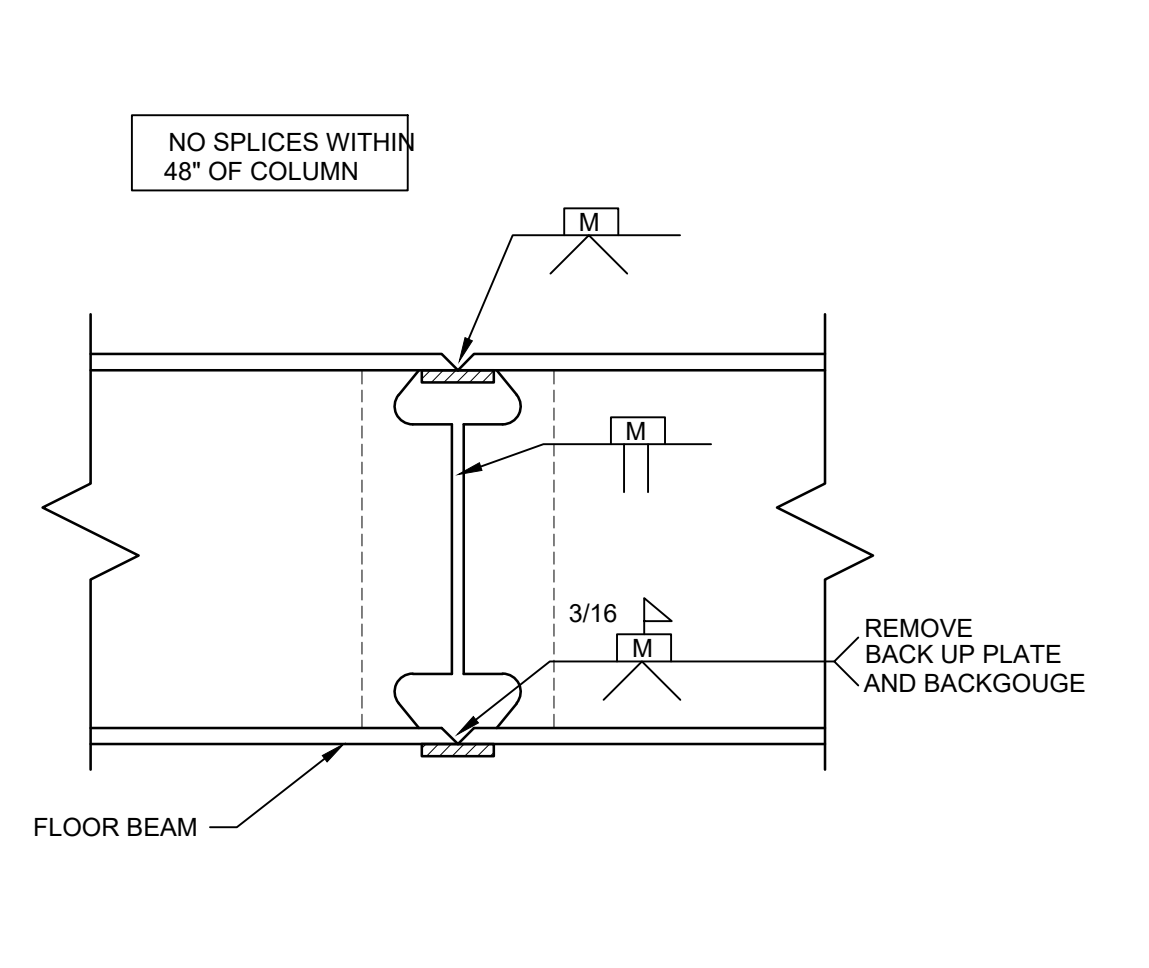
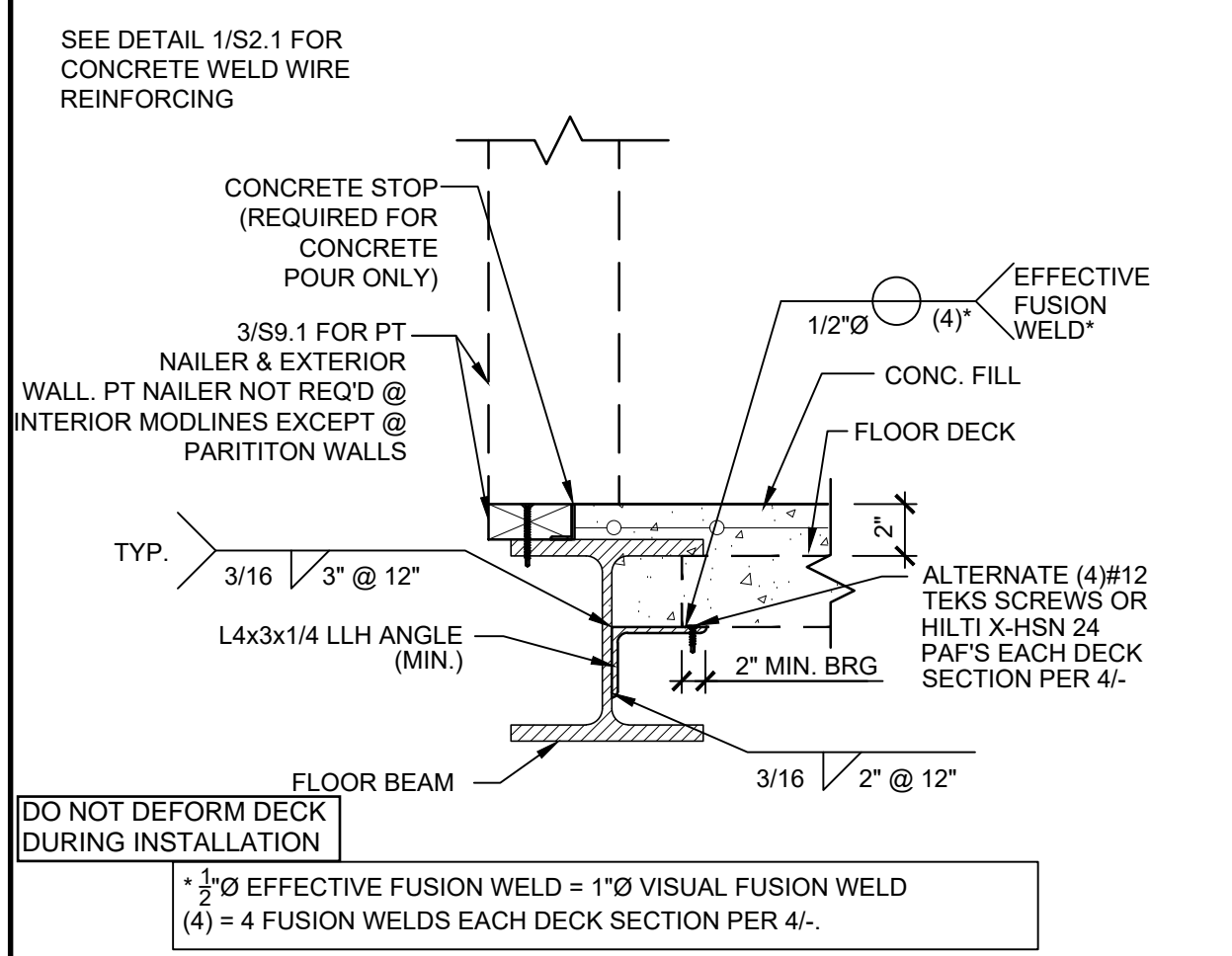
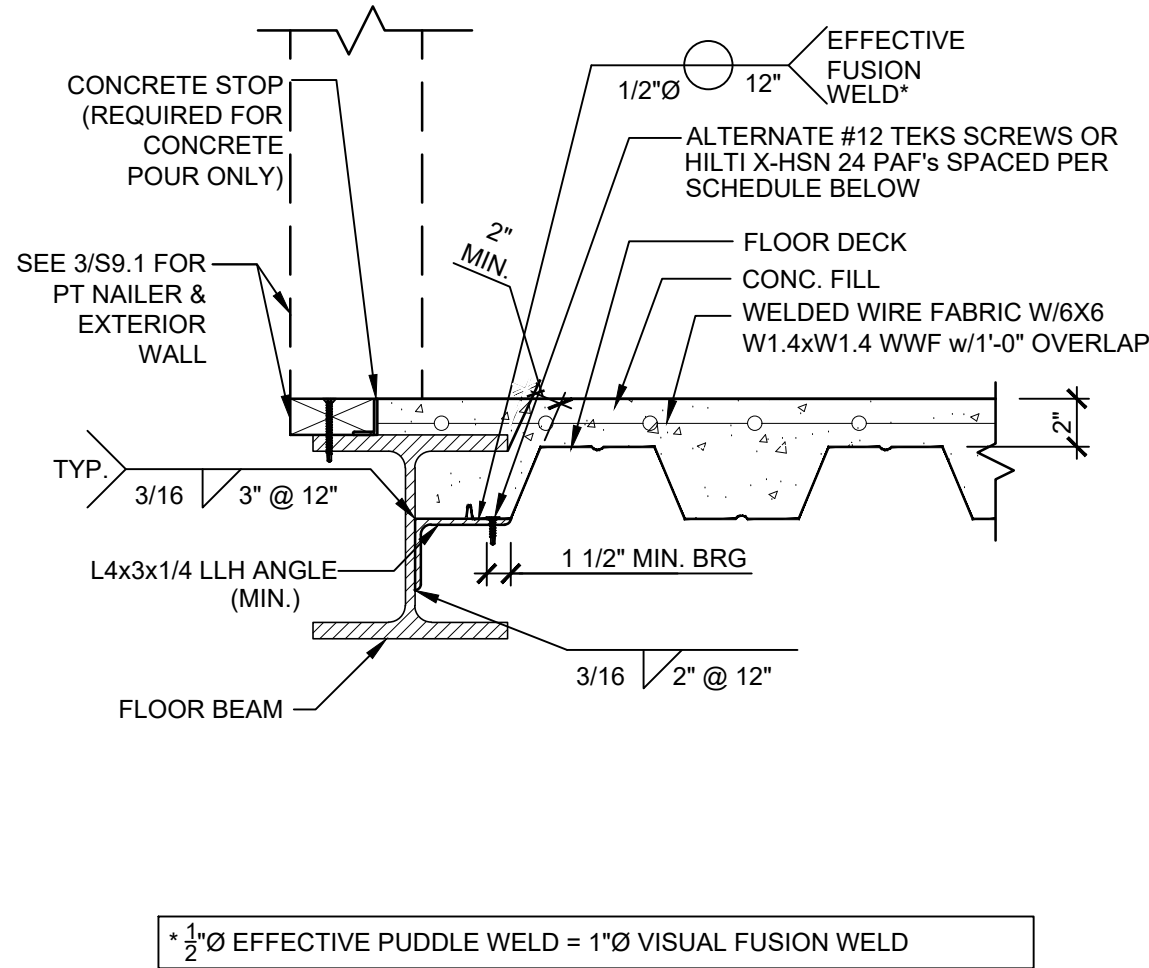
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DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 08/10/21  
PROJECT NO: 1613-20

SHEET TITLE:  
**FLOOR FRAMING PLAN UPPER FLOOR**

SHEET NUMBER:  
**S2.0A**

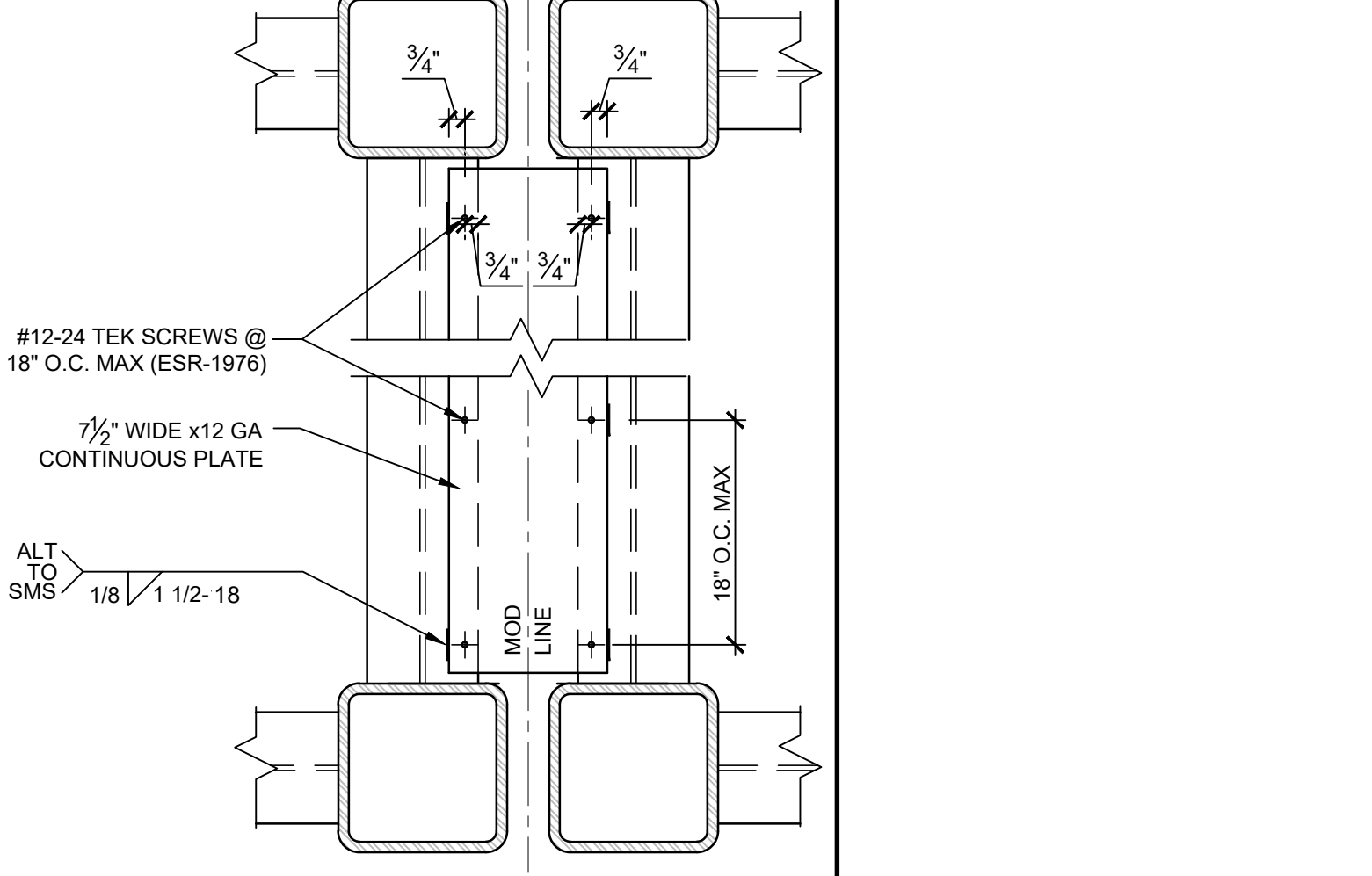
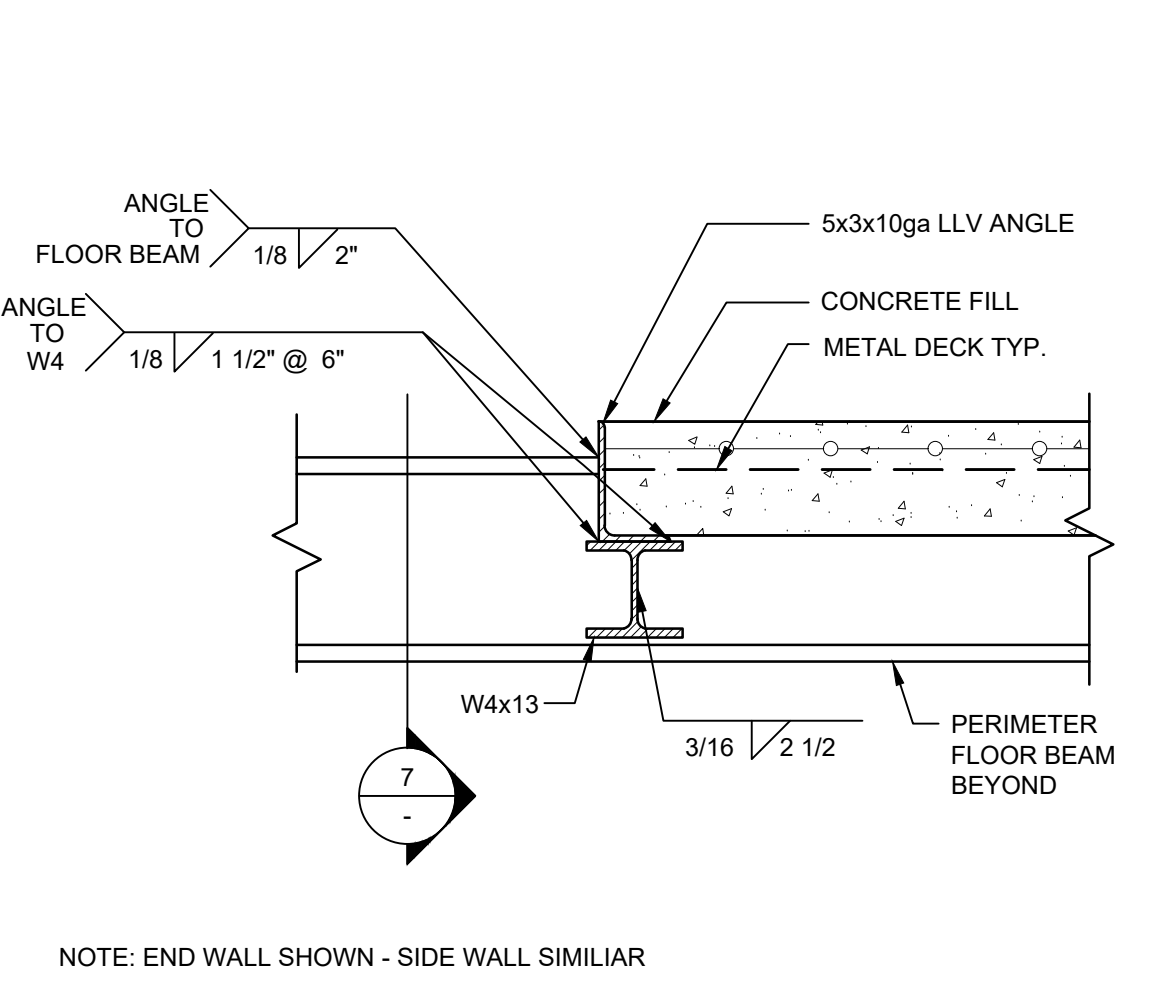
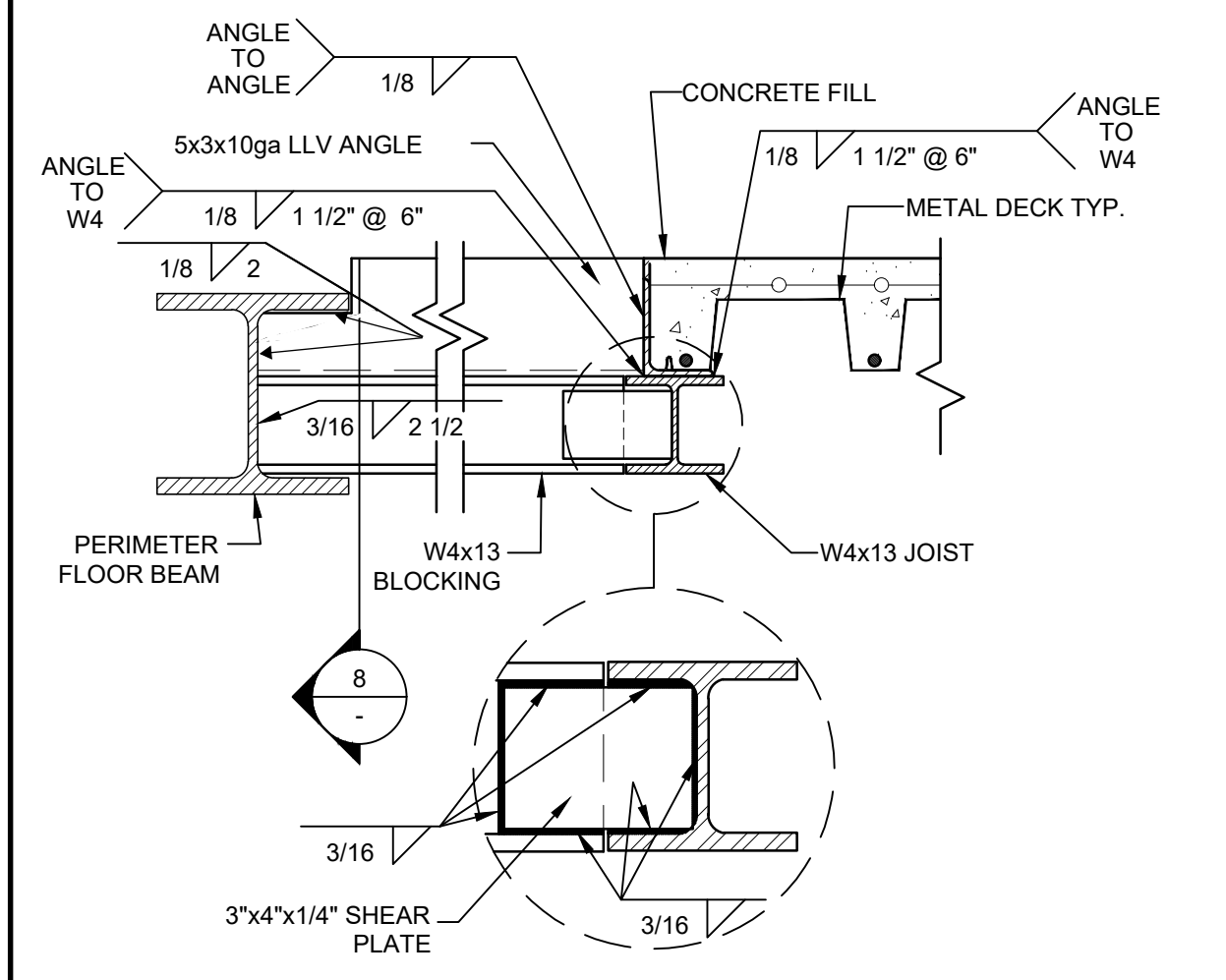
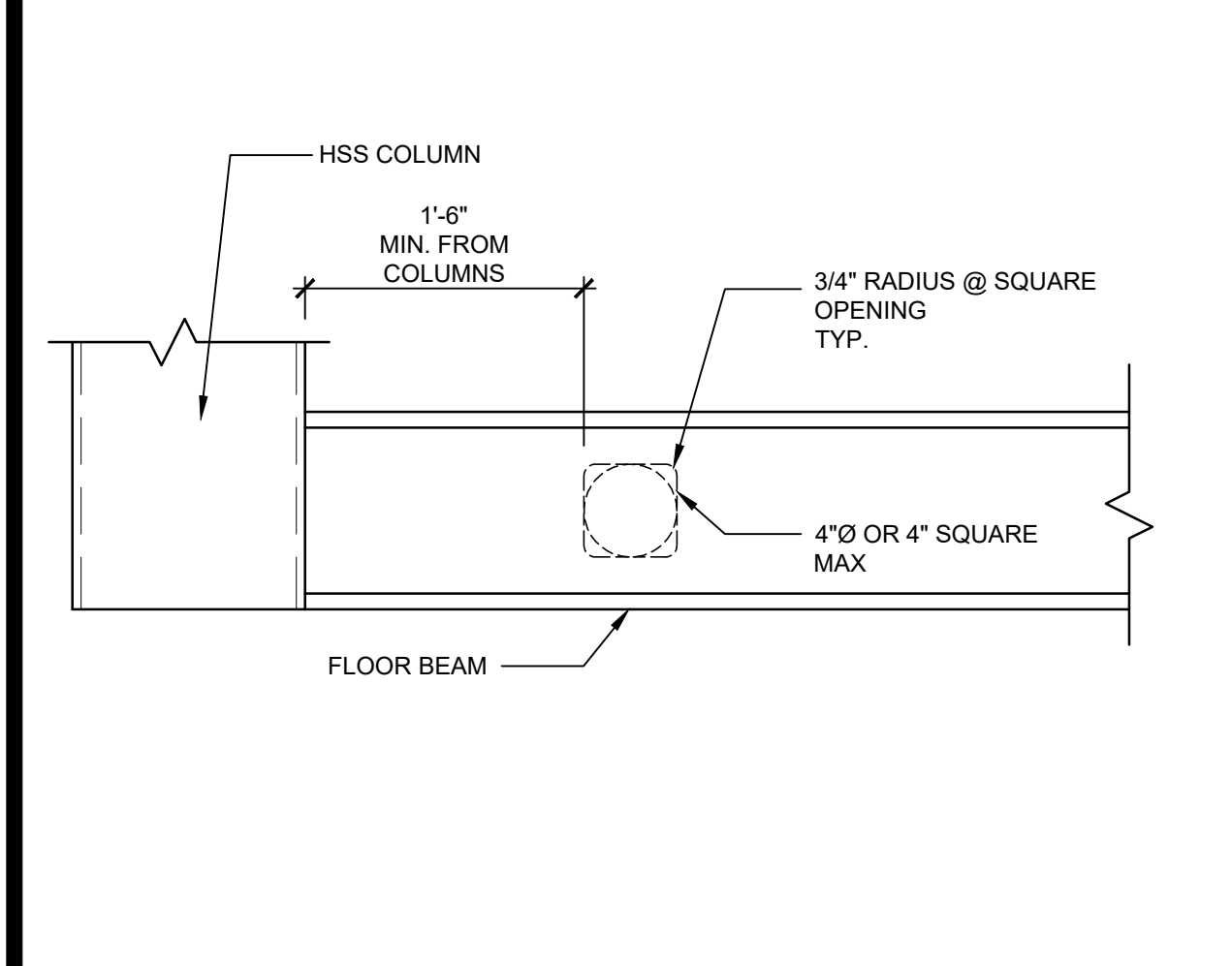


FLOOR DETAIL @ END WALL SCALE: 1 1/2"=1'-0" 1

FLOOR DETAIL @ SIDE WALL SCALE: 1 1/2"=1'-0" 2

FLOOR BEAM SPLICE SCALE: 1 1/2"=1'-0" 3

3WxH & 3WH METAL DECK PROP & PROFILE SCALE: NTS 4



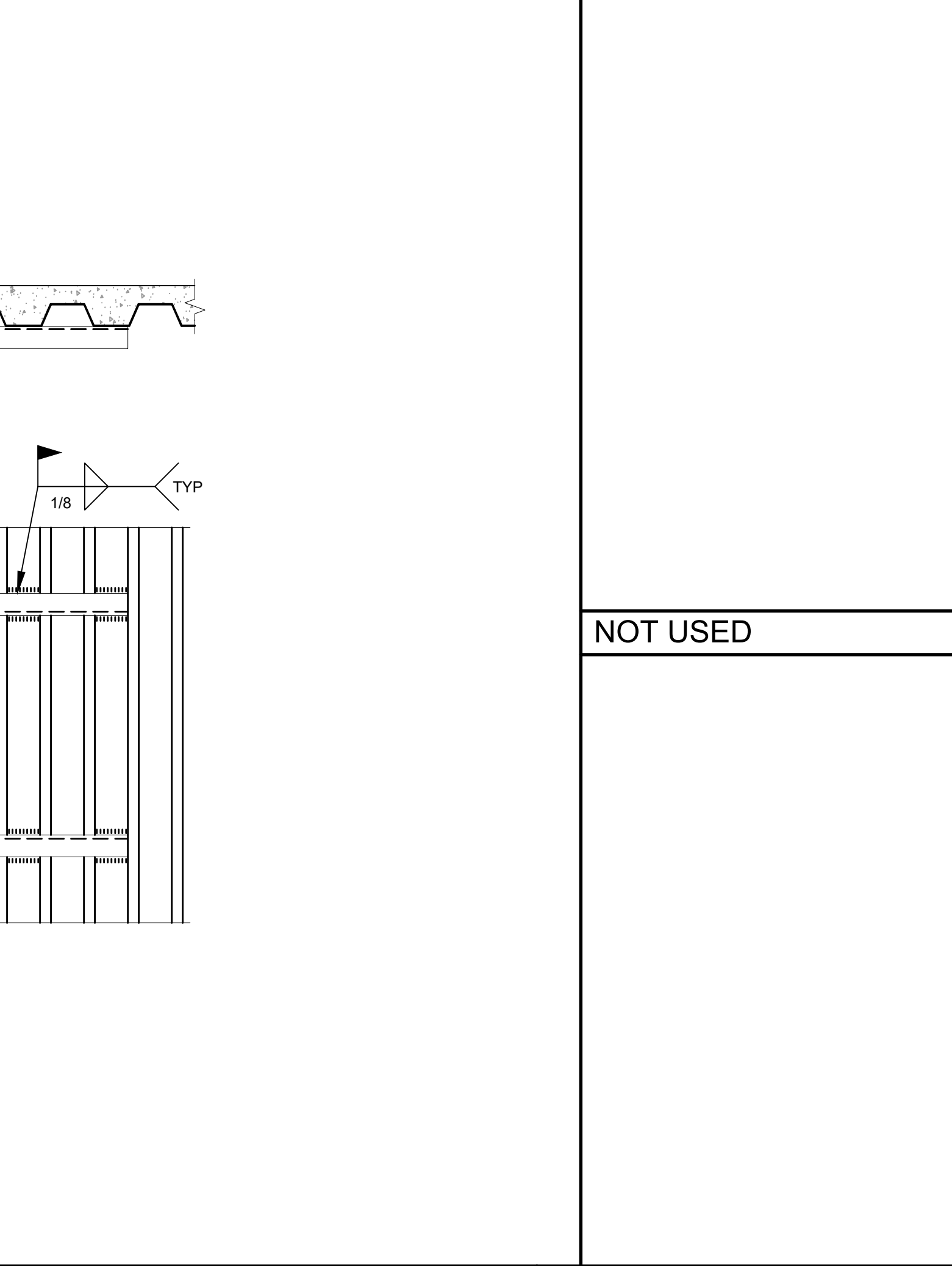
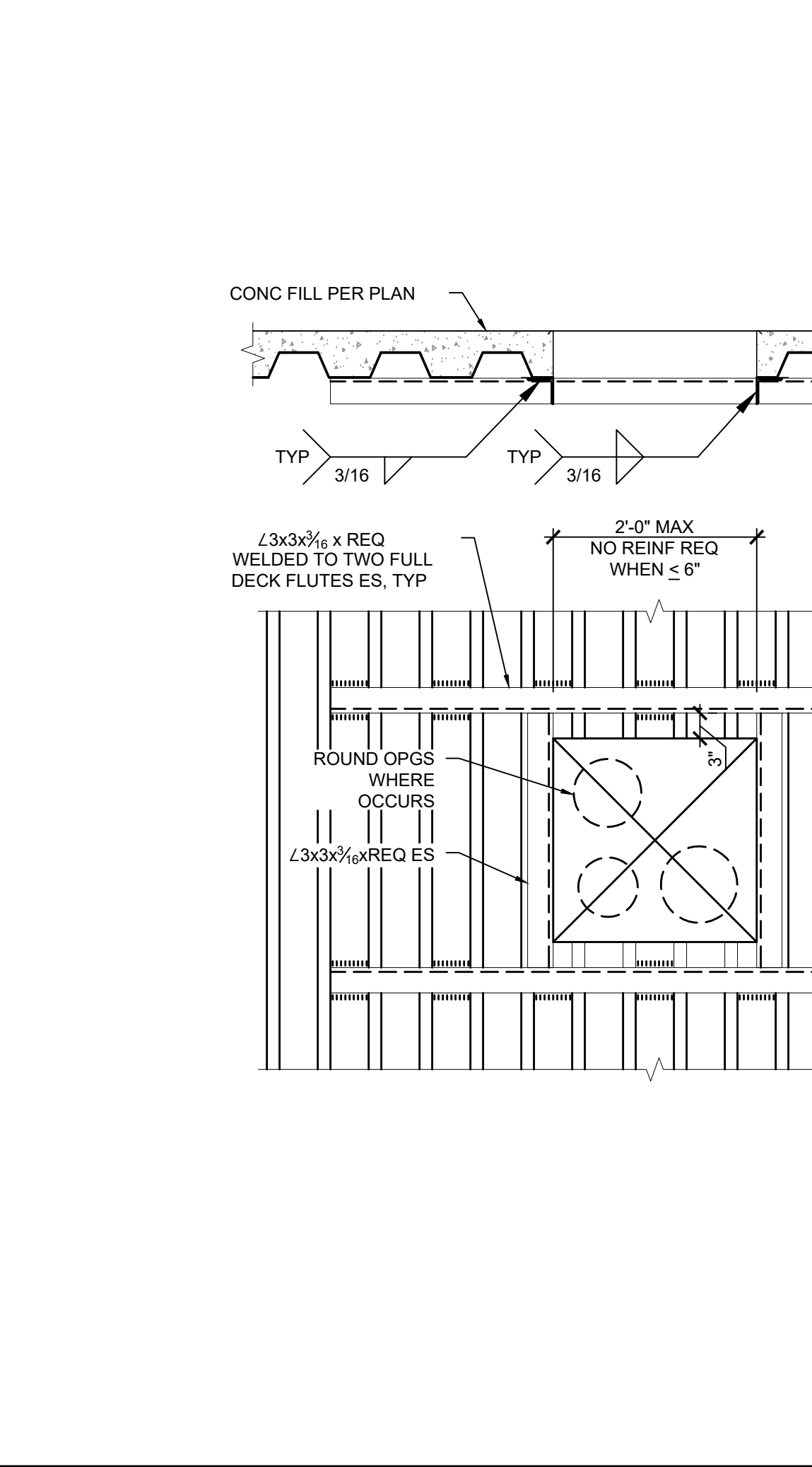
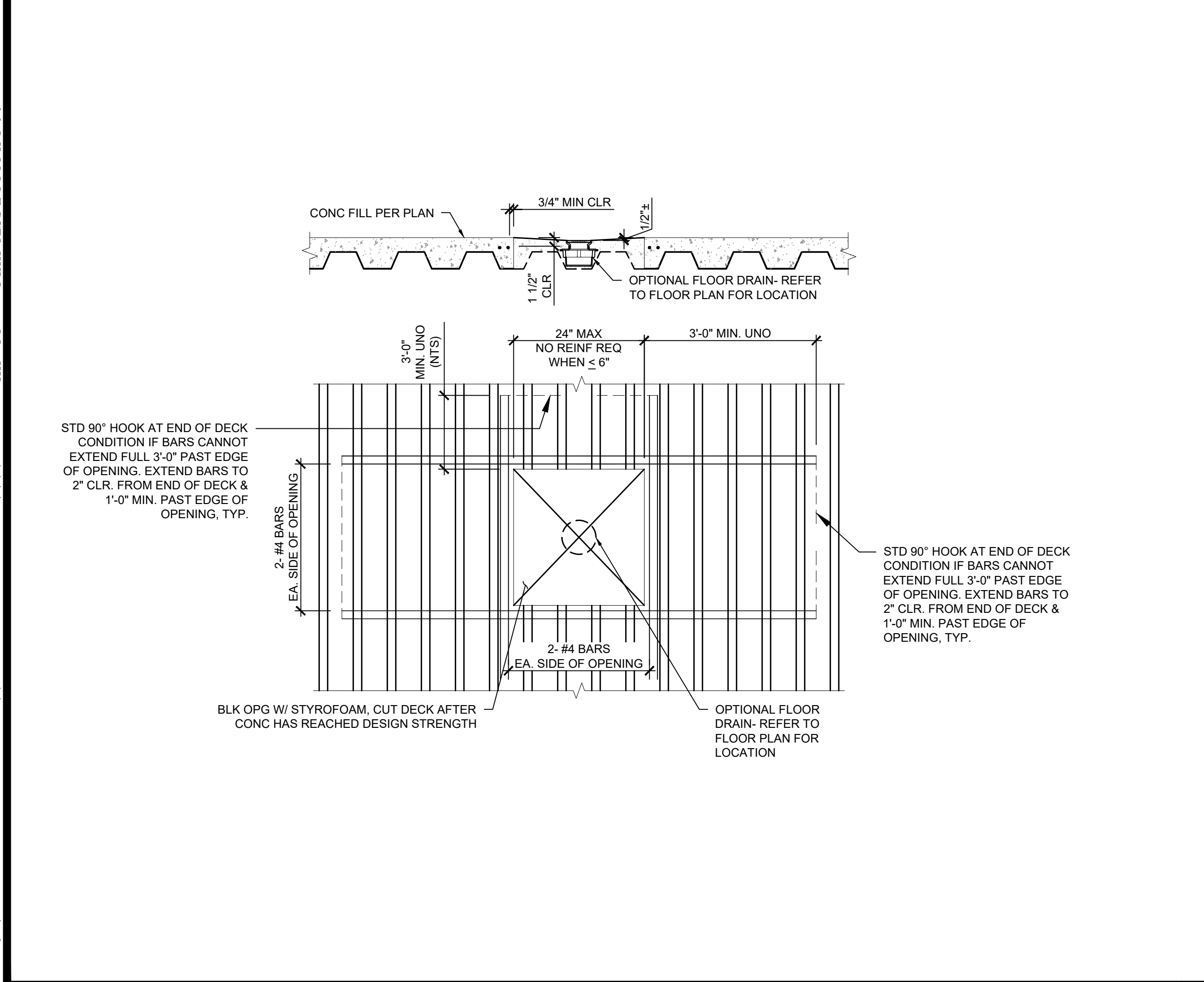
OPENING @ FLOOR BEAM SCALE: 1 1/2"=1'-0" 6

FLOOR OPENING REINFORCING SCALE: 1 1/2"=1'-0" 7

OPENING W4 TO FLOOR BEAM SCALE: 1 1/2"=1'-0" 8

MOD-LINE CONNECTOR PLATE SCALE: 1 1/2"=1'-0" 9

NOT USED 10



FLOOR OPENING BLOCK-OUT DETAIL (BEFORE CONCRETE POUR OPTION) 17

FLOOR OPENING BLOCK-OUT DETAIL (AFTER CONCRETE POUR OPTION) 18

NOT USED 19

NOT USED 20

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SET NAME  
(2) 72'x40' 2 STORY CLASSROOM BUILDINGS

SITE SPECIFIC PROJECT NAME  
GLENDALE USD  
GLENOAKS  
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD ON PC

REGISTERED PROFESSIONAL ARCHITECT  
PATRICK CANINO  
No. C12631  
Ren. 2-31-23  
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
MANNY D. FRISCO  
No. S3380  
STRUCTURAL  
STATE OF CALIFORNIA

09/20/2021  
RST#20203

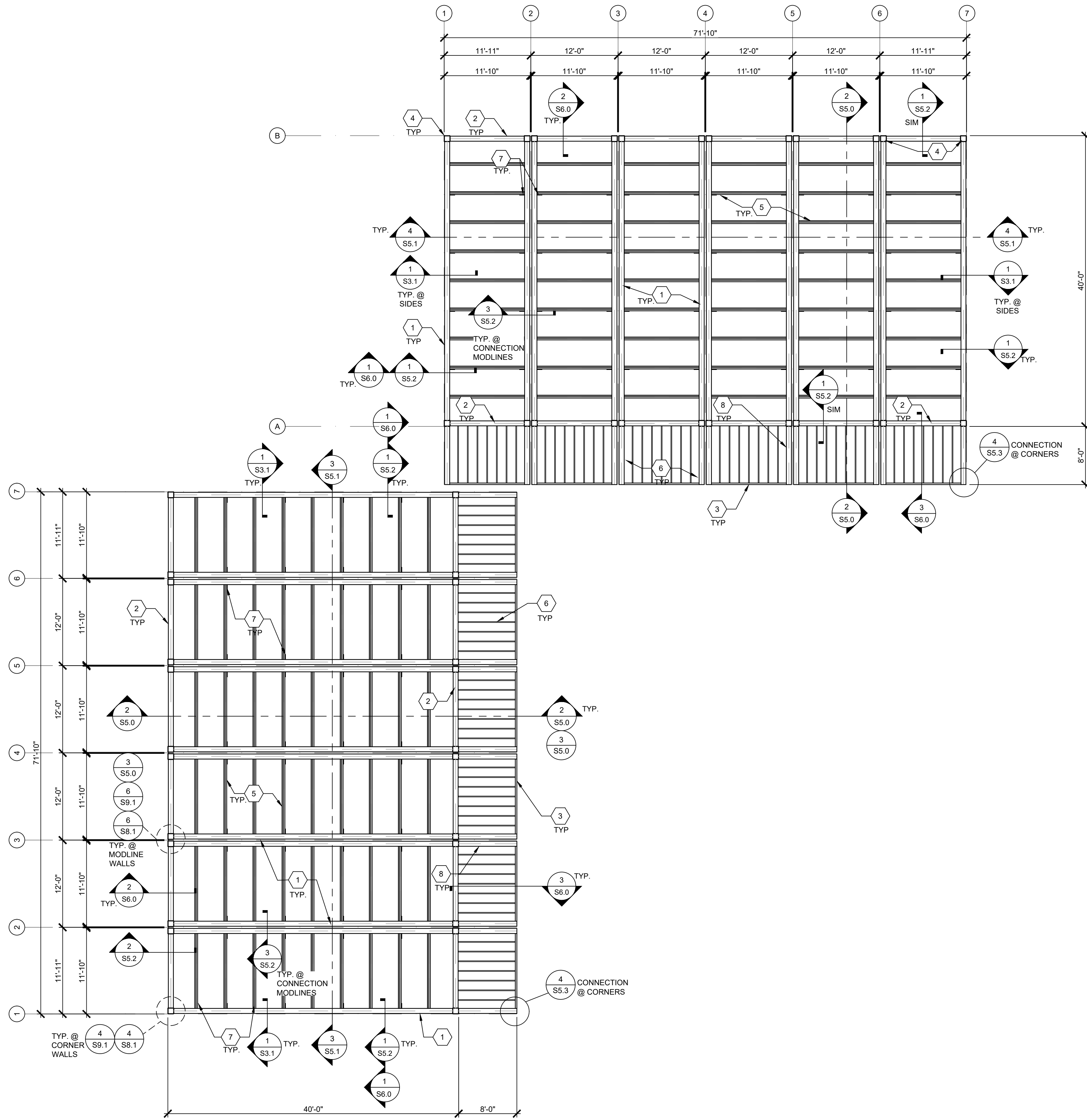
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NOT USED 15

REVISIONS


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20  
SHEET TITLE: FLOOR FRAMING DETAILS  
SHEET NUMBER: S2.1

BID SET 10/01/2021



- 1 LONGITUDINAL BEAM - PER SCHEDULE 3B/S5.0
- 2 TRANSVERSE BEAM - PER SCHEDULE 3B/S5.0
- 3 22"x2 1/2"x14GA FASCIA CHANNEL @ 8'-0" FRONT OVERHANG - REFER TO S0.0
- 4 HSS COLUMN PER SCHEDULE 3B/ S5.0
- 5 6"x2 1/2"x12 GA 'Z' FORMED ROOF PURLINS @ 48" O.C. MAX - REFER TO SHEET S0.0
- 6 600S162-33 STEEL STUDS @ 24" O.C. @ UPPER ROOF OVERHANG SOFFIT, PER 3/S6.0. SEE 19(B)/S9.1 FOR STUD SECTION PROPERTIES.
- 7 BRACE PER 1/S3.1
- 8 OVERHANG OUTRIGGER PER S5.0

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**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD  

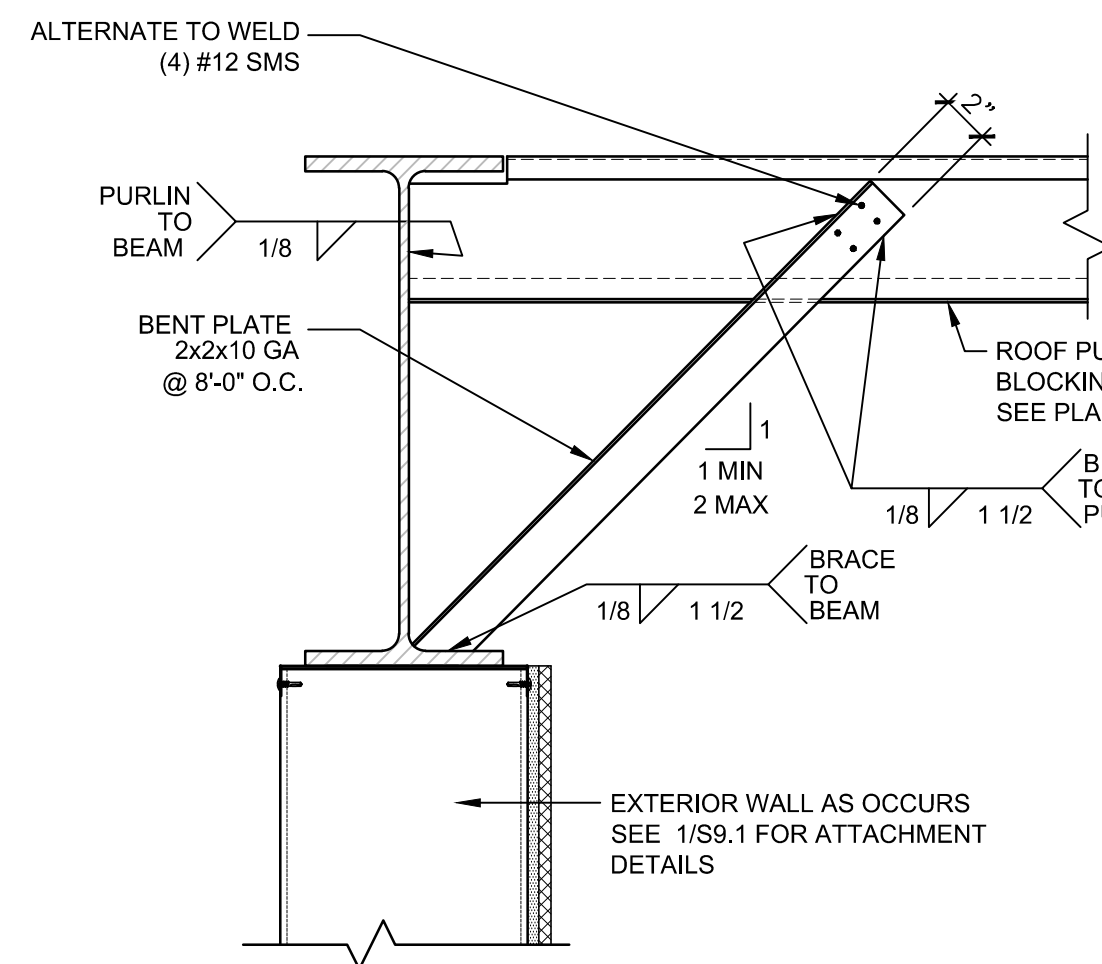

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REVISIONS	

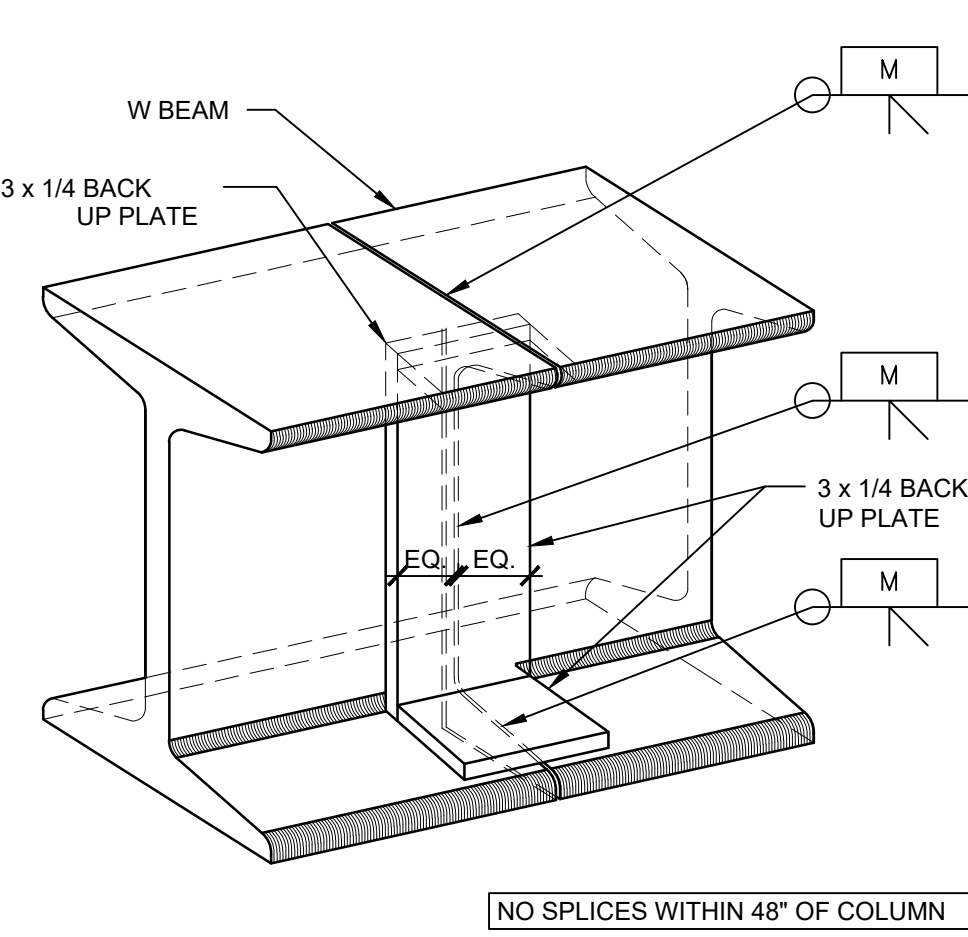
DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 08/10/21  
PROJECT NO: 1613-20

SHEET TITLE:  
**ROOF FRAMING PLAN GROUND FLOOR**

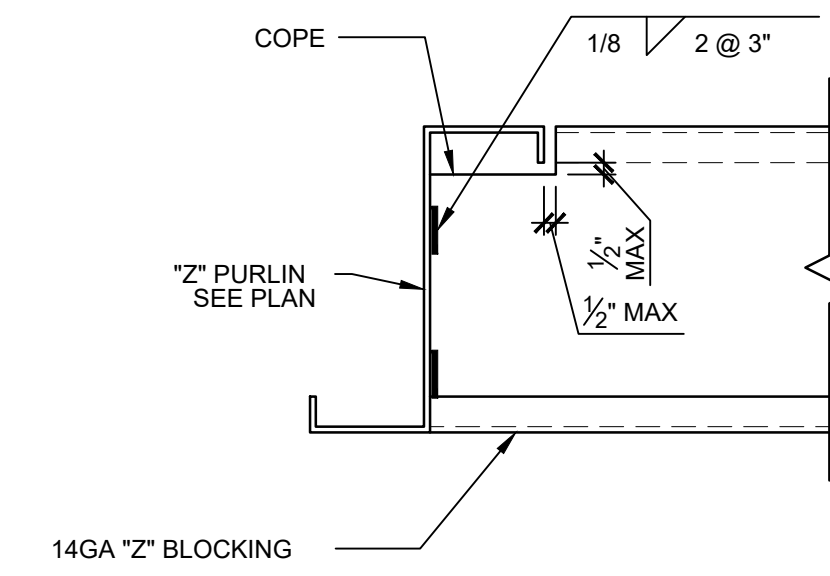
SHEET NUMBER:  
**S3.0**



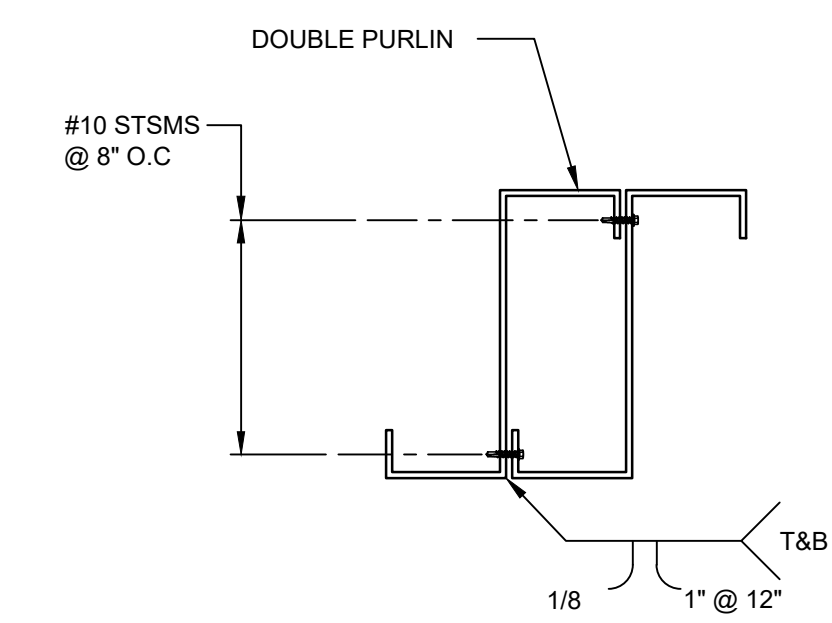
GROUND FLOOR PURLIN CONNECTION @ SIDEWALL SCALE: 1 1/2"=1'-0" 1



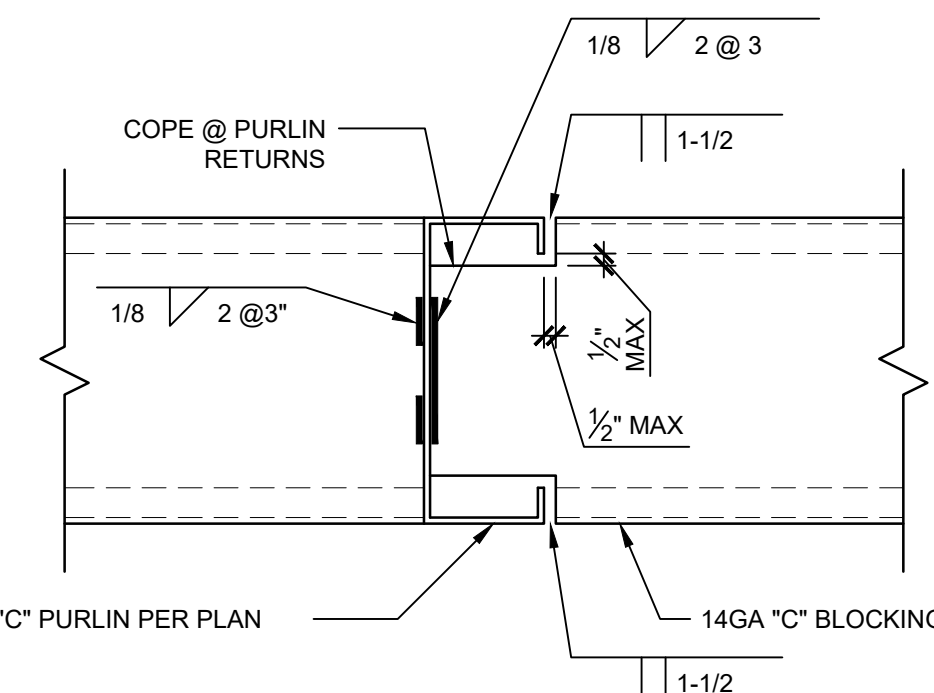
ROOF BEAM SPLICE DETAIL N.T.S. 2



BLOCKING DETAIL @ Z PURLINS SCALE: 1 1/2"=1'-0" 7



DOUBLE PURLIN CONNECTION SCALE: 1 1/2"=1'-0" 8



BLOCKING DETAIL @ C PURLINS SCALE: 1 1/2"=1'-0" 7

NOT USED 5

NOT USED 6

NOT USED 12

NOT USED 9

NOT USED 10

NOT USED 11

NOT USED 12

NOT USED 13

NOT USED 14

NOT USED 15

NOT USED 16

NOT USED 17

NOT USED 18

**AMS**  
American Modular Systems  
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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD ON PC

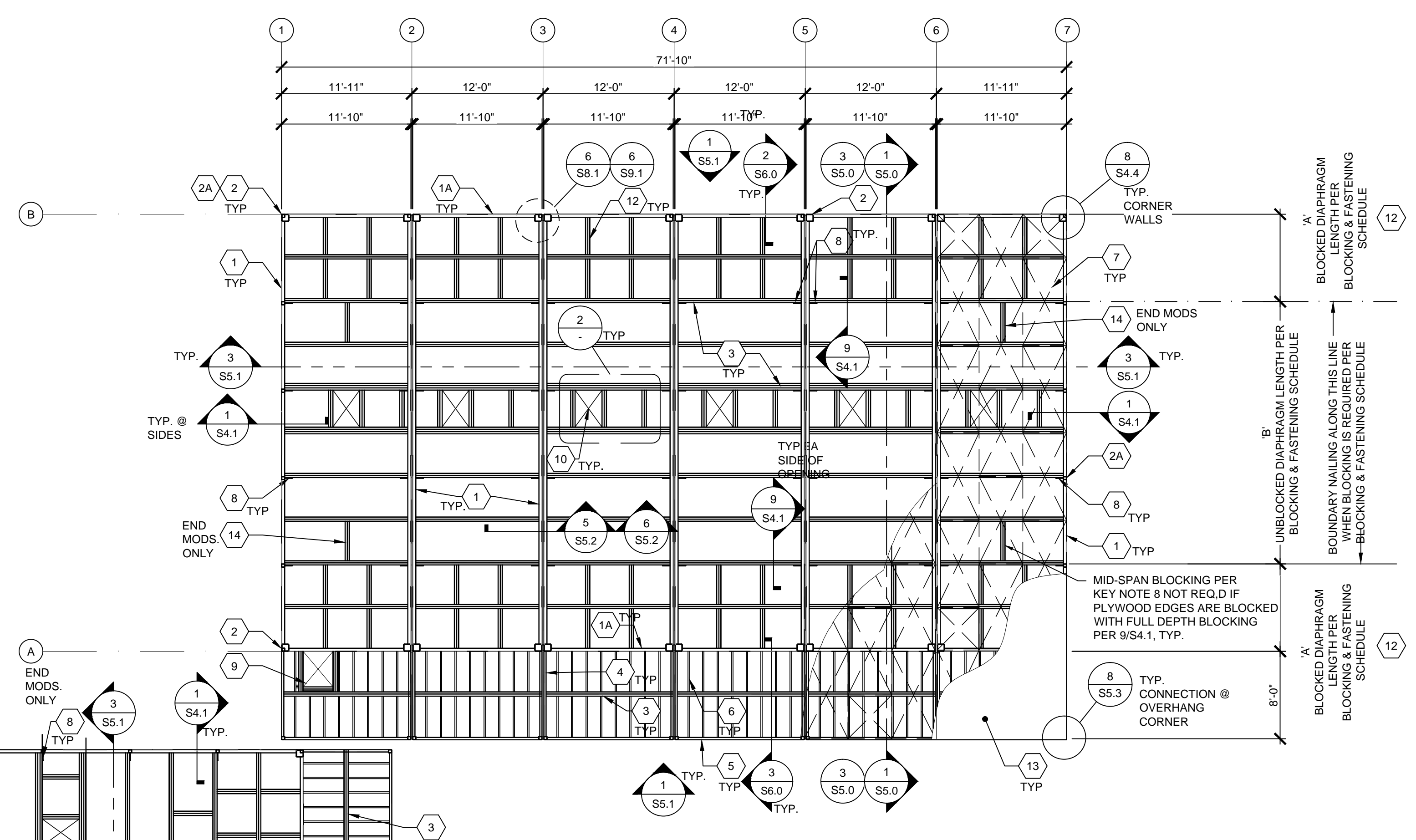
09/20/2021  
RST#20203  
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REVISIONS


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20  
SHEET TITLE:  
**ROOF FRAMING DETAILS GROUND FLOOR**  
SHEET NUMBER:

**S3.1**

BID SET 10/01/2021

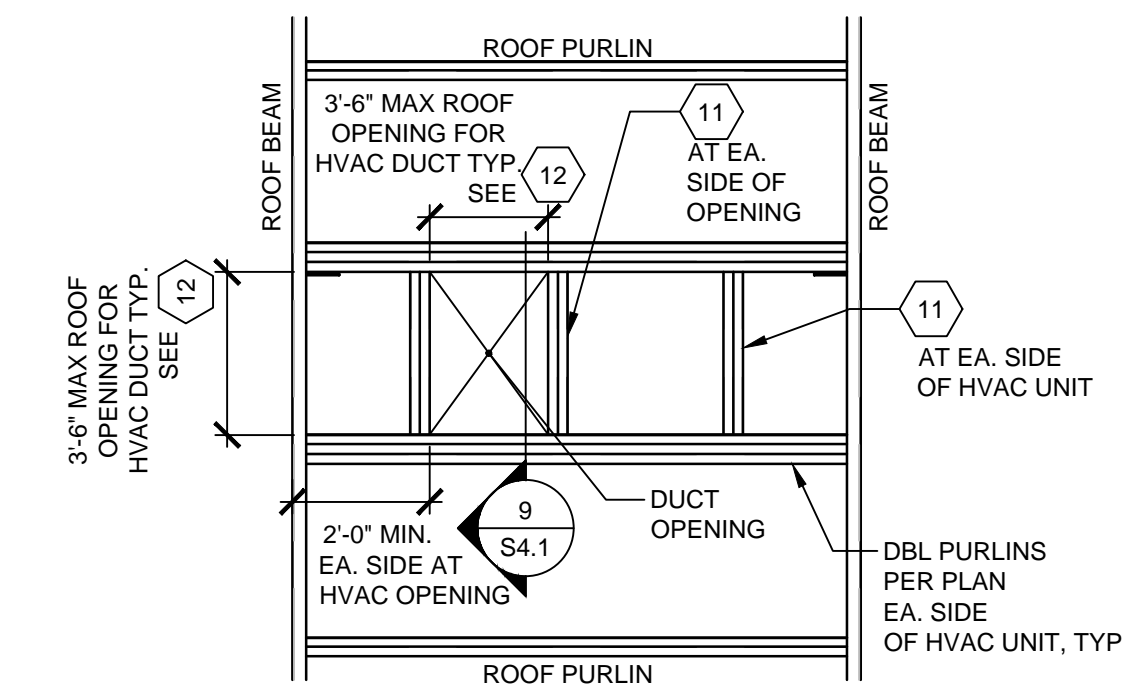


- 1 LONGITUDINAL BEAM - PER SHEET S5.0
  - 1A TRANSVERSE BEAM - PER SHEET S5.0
  - 2 HSS COLUMN PER SHEET S5.0
  - 2A HSS PARAPET COLUMN - REFER TO SHEET S4.4 FOR SIZES
  - 3 6"x2 1/2"x14GA Z' FORMED OR 6"x3"x14GA C' FORMED ROOF PURLINS @ 48" O.C. MAX - REFER TO SHEET S0.0
  - 4 TAPERED 20"x22" DEEP X 12GA FORMED OUTRIGGER CHANNEL @ 8'-0" FRONT OVERHANG - REFER TO S0.0
  - 5 22"x2 1/2"x14GA FASCIA CHANNEL @ 8'-0" FRONT OVERHANG - REFER TO S0.0
  - 6 600S162-33 STEEL STUDS @ 24" O.C. @ UPPER ROOF OVERHANG SOFFIT, PER 3/S6.0. SEE 19(B)/S9.1 FOR STUD SECTION PROPERTIES.
  - 7 3/4" APA RATED L-P OSB OR 3/4" PLYWOOD (ALL PLYWOOD SHALL BE EITHER T&G OR EDGE CLIPPED AT UNSUPPORTED EDGES), COMPLY WITH DSA PA-062, CD EXPOSURE-1 48/24 SPAN INDEX, FACE GRAIN NORMAL TO ROOF PURLINS. ALL BOUNDARY, EDGE & FIELD ATTACHMENTS SHALL BE 1" MIN. FROM EDGE OF PLYWOOD & EDGE OF STEEL SUPPORTING MEMBER. REFER TO BLOCKING & FASTENING REQUIREMENTS FOR BLOCKING & FASTENING REQUIREMENTS.
- ROOF FINISHES: SEE A2.0

ROOF PLYWOOD BLOCKING & FASTENING SCHEDULE			
	FASTENING	#10 SMS	0.144"Ø ET&F PINS <sup>1</sup>
'A' BLOCKED DIAPHRAGM @ MODULE ENDS <sup>2</sup>	'A' BLOCKED DIAPHRAGM LENGTH EA END OF EA MODULE	8'-0"	4'-0"
	BOUNDARY FASTENING <sup>3</sup>	4" O.C.	4" O.C.
	EDGE FASTENING	4" O.C.	4" O.C.
'B' UNBLOCKED DIAPHRAGM @ MODULE INTERIOR	'B' UNBLOCKED DIAPHRAGM LENGTH @ MODULE INTERIOR	24'-0"	32'-0"
	BOUNDARY FASTENING <sup>3</sup>	6" O.C.	6" O.C.
	EDGE FASTENING	6" O.C.	6" O.C.
	FIELD FASTENING	12" O.C.	6" O.C.

- (1) ET&F PINS PER IAPMO UES EVALUATION REPORT ER-335
- (2) PROVIDE BLOCKING PER 9/S4.1 OR 14/S4.1 w/ EDGE FASTENING AT ALL UNSUPPORTED PLYWOOD EDGES AT END BAYS OF ALL MODULES AS INDICATED ON ROOF PLAN AND SCHEDULE ABOVE.
- (3) BOUNDARY FASTENING IS APPLIED TO PERIMETER OF ALL MODULES ALONG ALL FRAME LINES AND A BOUNDARY BETWEEN BLOCKED & UNBLOCKED DIAPHRAGMS WHERE INDICATED ON ROOF PLAN.
- 8 BENT PLATE DIAGONAL BEAM BRACE. SEE DETAIL 1/S4.1 AT EXTERIOR SIDE WALL ROOF BEAMS & DETAILS 5/6/S5.2 AT INTERIOR MODLINE ROOF BEAMS. PROVIDE MID-SPAN PURLINS BLOCKING AT EACH BRACE AT END MODULES ONLY PER 14/BELOW.
- 9 OPENING FOR ROOF HATCH. PROVIDE BLOCKING PER 9/S4.1
- 10 OPENING FOR HVAC PROVIDE BLOCKING PER 2/-
- 11 PROVIDE SINGLE PURLINS AND BLOCKING PER 9/S4.1 LOCATE OPENINGS PER ROOF PLAN & PROVIDE 48" CLEAR MIN BETWEEN ALL OPENINGS. TYP. NOTE: DO NOT HEAD OFF ROOF PURLINS FOR OPENING OR HVAC FRAMING. ALL ROOF PURLINS SHALL BE CONTINUOUS ACROSS MODULE. LAYOUT OF CONTINUOUS ROOF PURLINS MAY BE ADJUSTED TO ACCOMMODATE HVAC LAYOUT AS LONG AS SPACING DOES NOT EXCEED 48" O.C.
- 12 BLOCKING PER 9/S4.1 OR 7/S4.1 w/ EDGE FASTENING AT ALL UNSUPPORTED PLYWOOD EDGES WHEN REQUIRED PER BLOCKING & FASTENING SCHEDULE.
- 13 ROOFING - SEE A2.0
- 14 MID-SPAN PURLIN BLOCKING WELD TO ROOF PURLINS PER 9/S4.1. BLOCKING IS ONLY REQUIRED AT END MODULES AT PURLINS WITH DIAGONAL BEAM BRACING @ EXTERIOR SIDE WALLS PER 8/ABOVE

KEY NOTES



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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD

*Patricia J. ...*  
LICENSED ARCHITECT  
PATRICIA J. ...  
No. C12631  
Ren. 3/31/21  
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
MANNY D. FRISCO  
No. 83380  
STRUCTURAL  
STATE OF CALIFORNIA

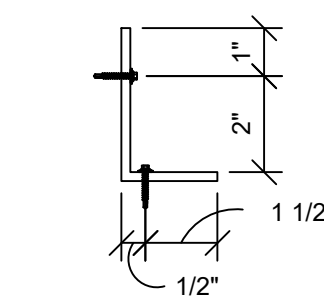
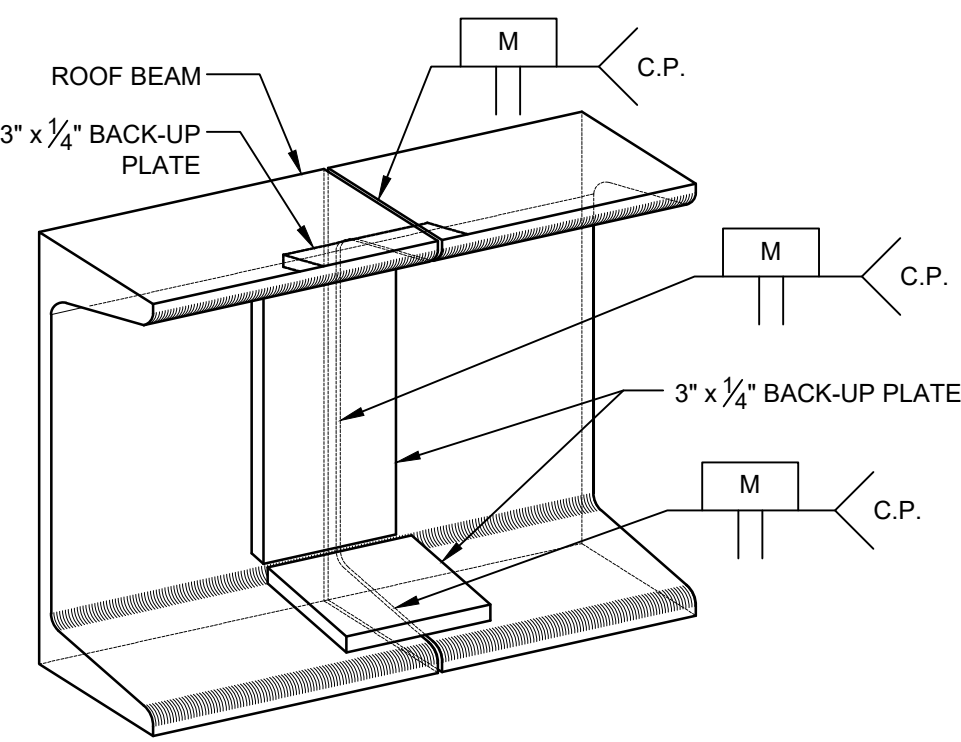
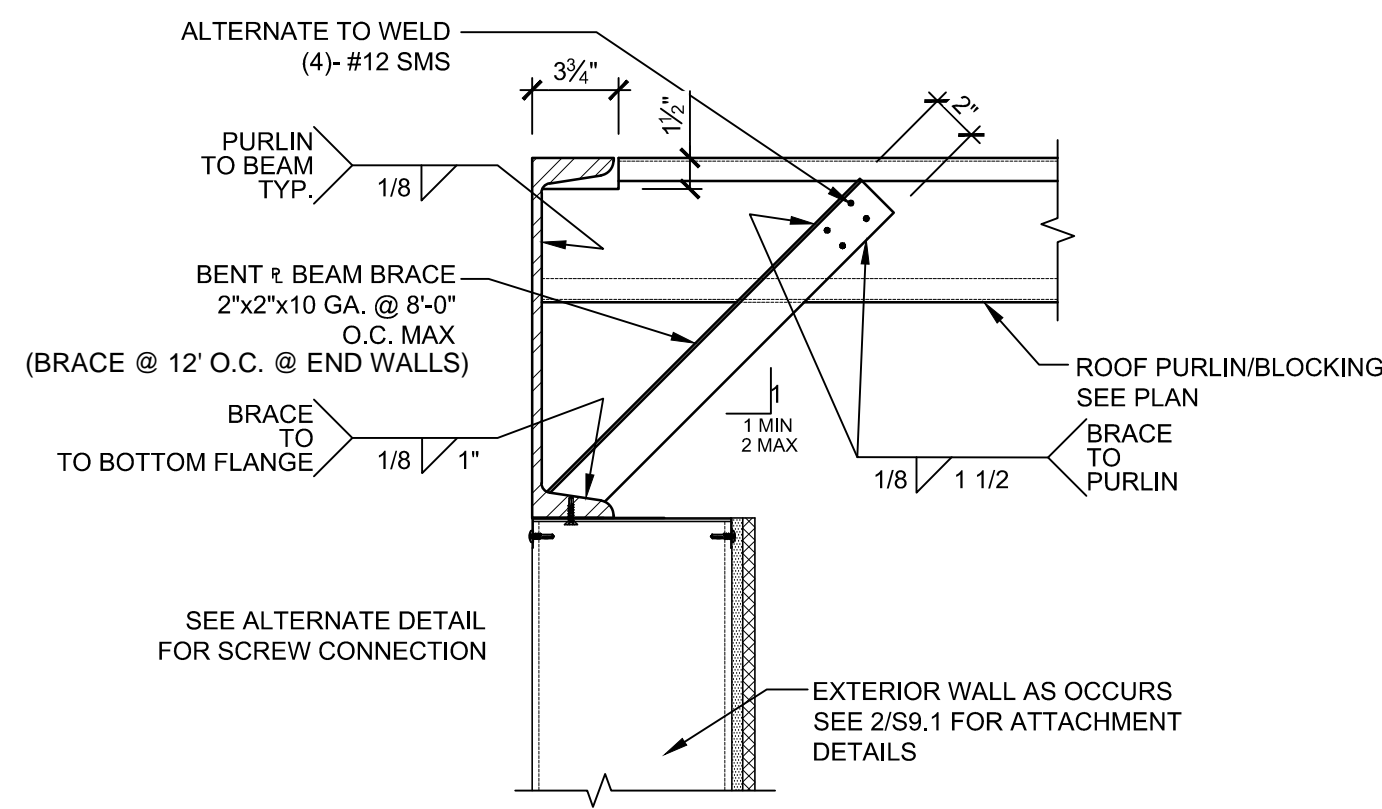
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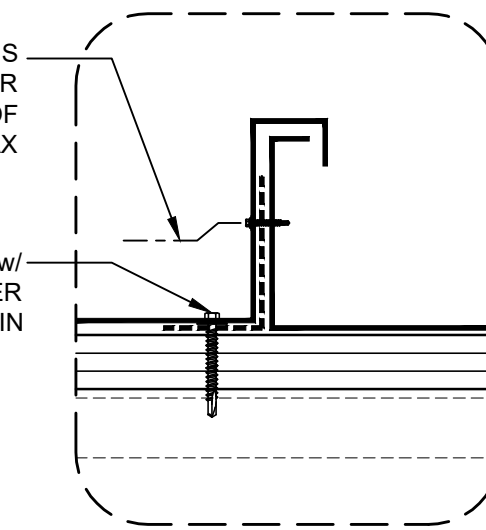

DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 12/04/20  
PROJECT NO: 1614-20

SHEET TITLE:  
**ROOF FRAMING PLAN UPPER FLOOR**

SHEET NUMBER:  
**S4.0**



#1/4 x 3/4" STSMS w/ NEOPRENE WASHER THRU RIB & VERTICAL LEG OF TIE DOWN CLIP @ 48" O.C. MAX



NOTE: SEE 8/S4.1 FOR OPTIONAL ROOF PAN CLIP

UPPER FLOOR PURLIN CONNECTION @ SIDEWALL

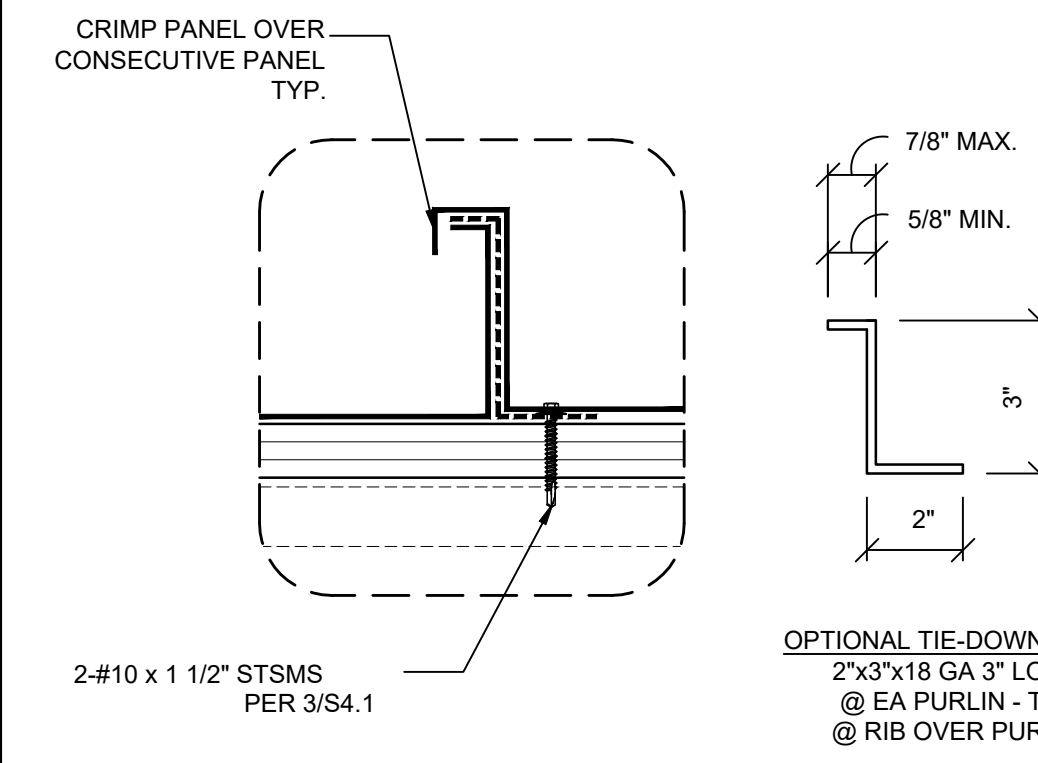
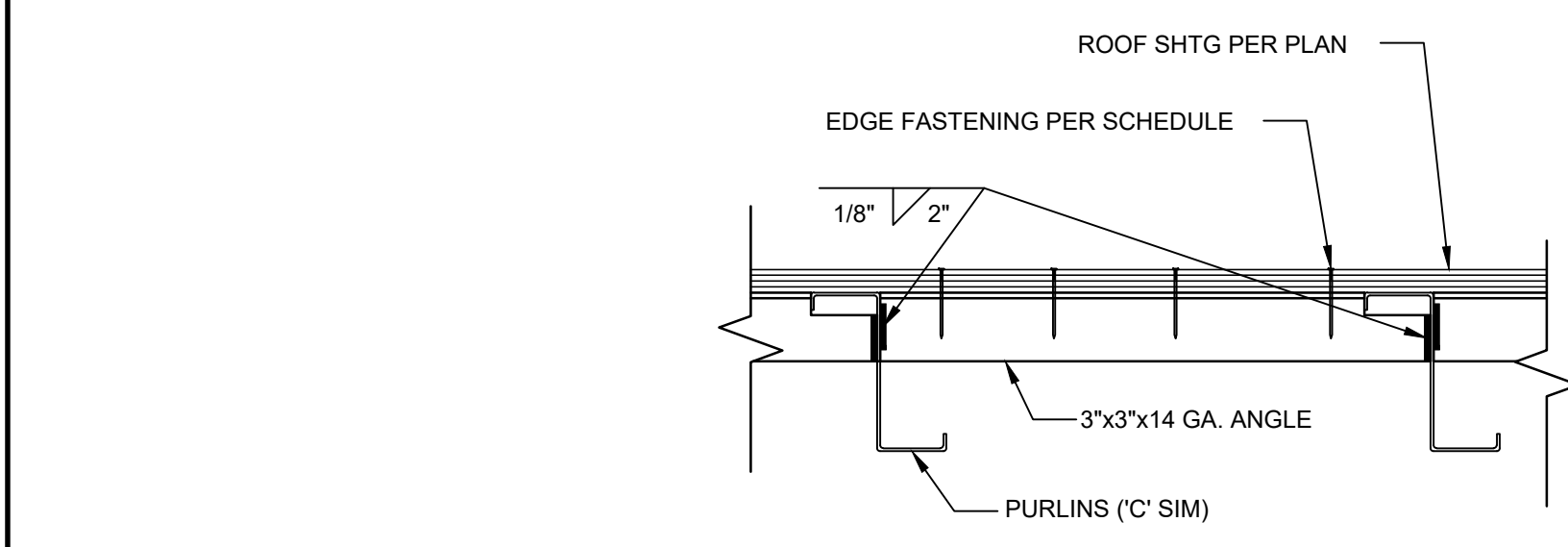
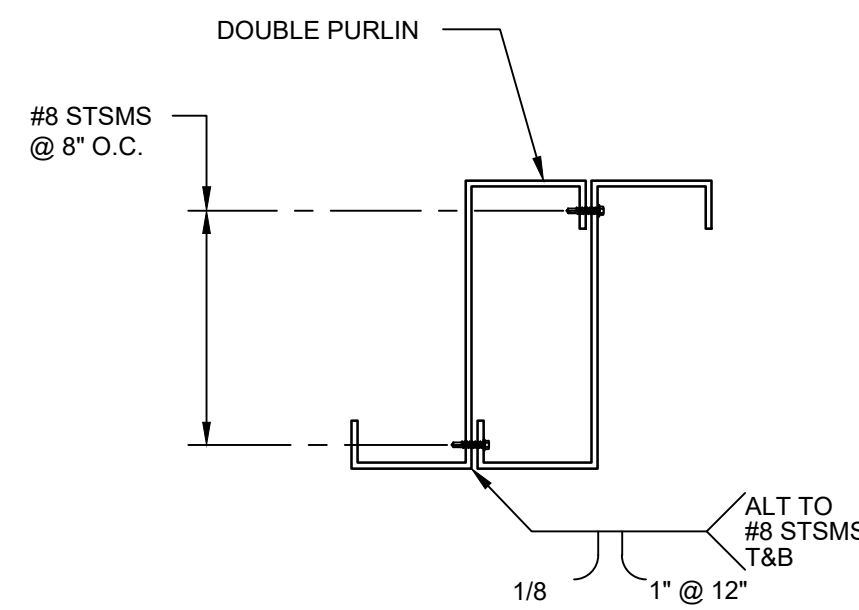
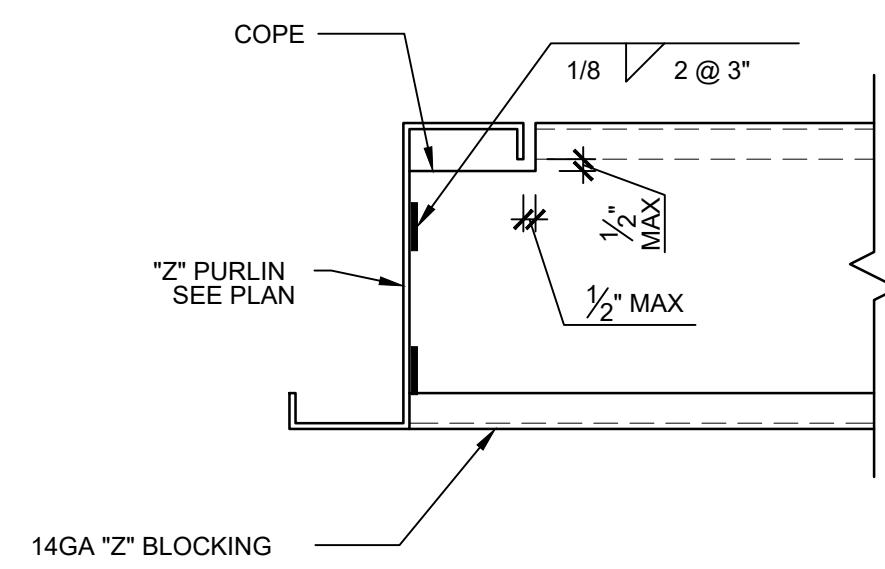
SCALE: 1 1/2"=1'-0" 1

ROOF BEAM SPLICE DETAIL

SCALE: N.T.S. 1A

ROOF PAN DETAIL

SCALE: 1 1/2"=1'-0" 3



@ Z" PURLINS

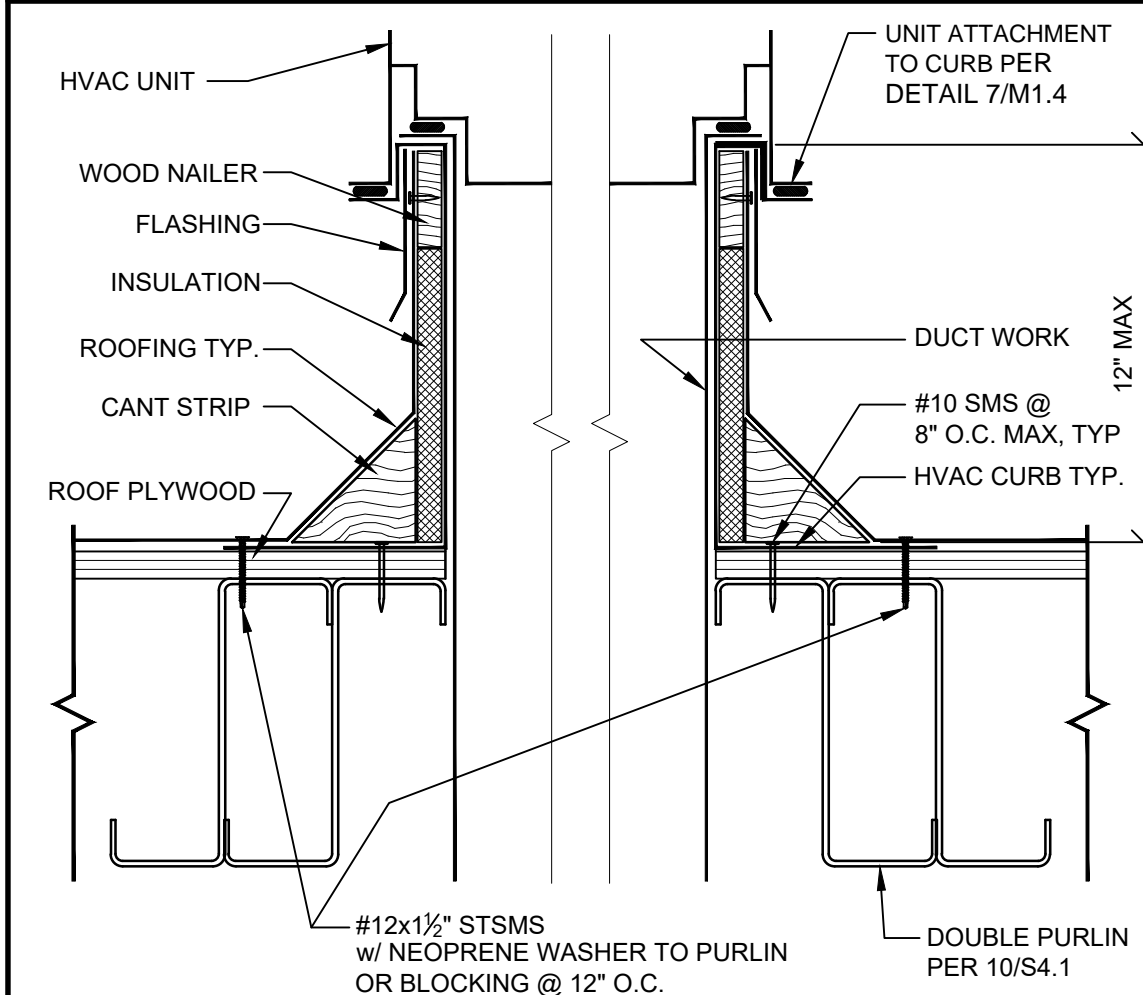
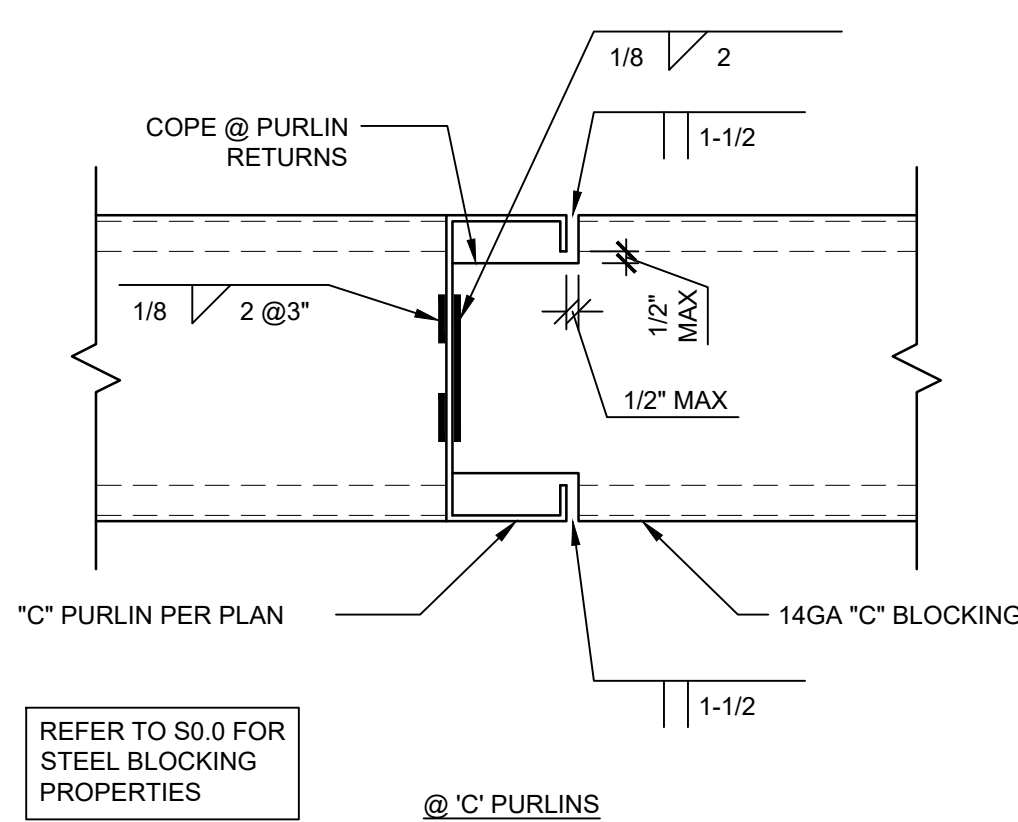
@ Z" PURLINS

ALTERNATE BLOCKING DETAIL

SCALE: 1 1/2"=1'-0" 7

ROOF DETAIL

(OPTIONAL ROOF PAN CLIP) SCALE: N.T.S. 8



BLOCKING DETAIL

SCALE: 1 1/2"=1'-0" 9

DOUBLE PURLIN CONNECTION

SCALE: 1 1/2"=1'-0" 10

HVAC CURB DETAIL

SCALE: 1 1/2"=1'-0" 11

NOT USED

NOT USED

12

NOT USED

13

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

GENERAL NOTES

REVISIONS


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20  
SHEET TITLE: ROOF FRAMING DETAILS UPPER FLOOR  
SHEET NUMBER: S4.1

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SET NAME  
(2) 72'x40' 2 STORY CLASSROOM BUILDINGS

SITE SPECIFIC PROJECT NAME  
GLENDALE USD  
GLENOAKS  
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD ON PC

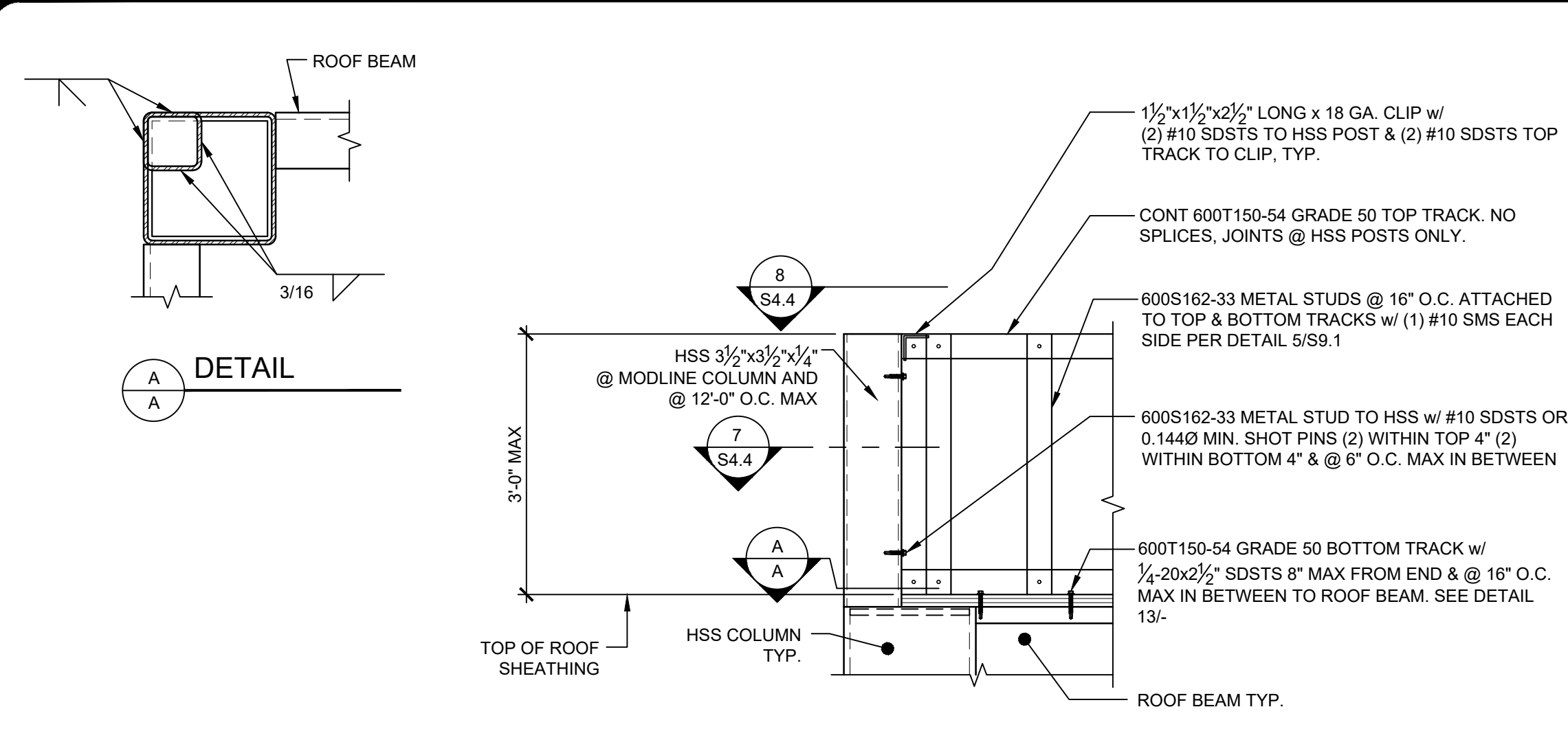
*Patricia Canino*  
LICENSED ARCHITECT  
PATRICIA CANINO  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

*Manly D. Frisco*  
REGISTERED PROFESSIONAL ENGINEER  
MANLY D. FRISCO  
No. S3380  
STRUCTURAL  
STATE OF CALIFORNIA  
09/20/2021  
RST#20203

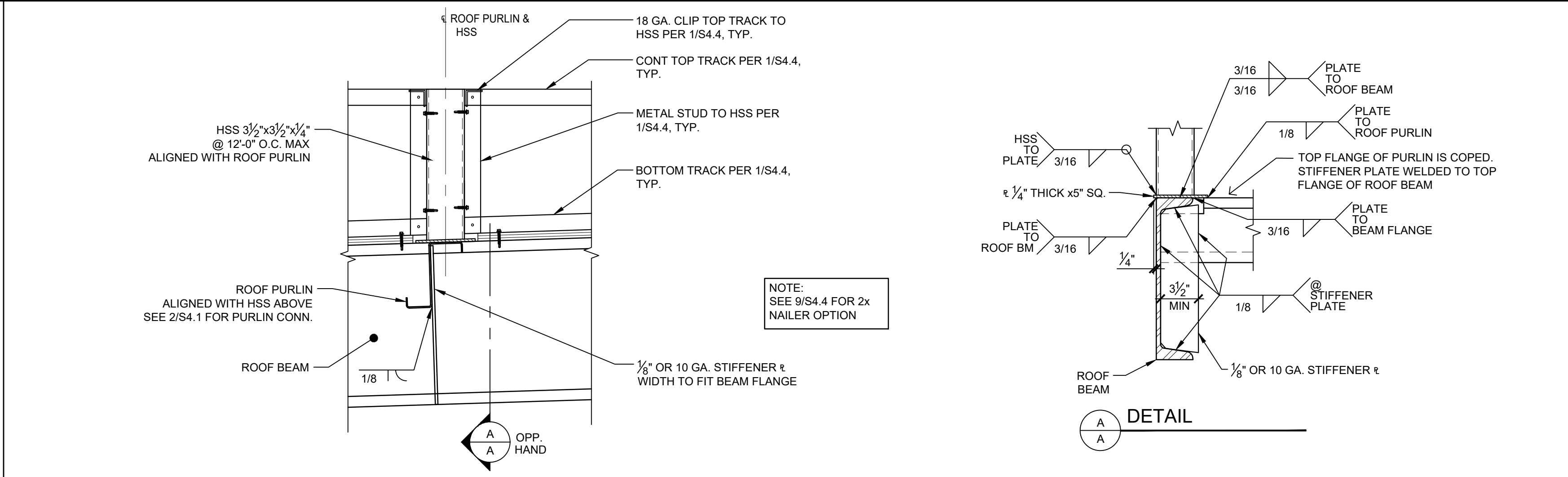
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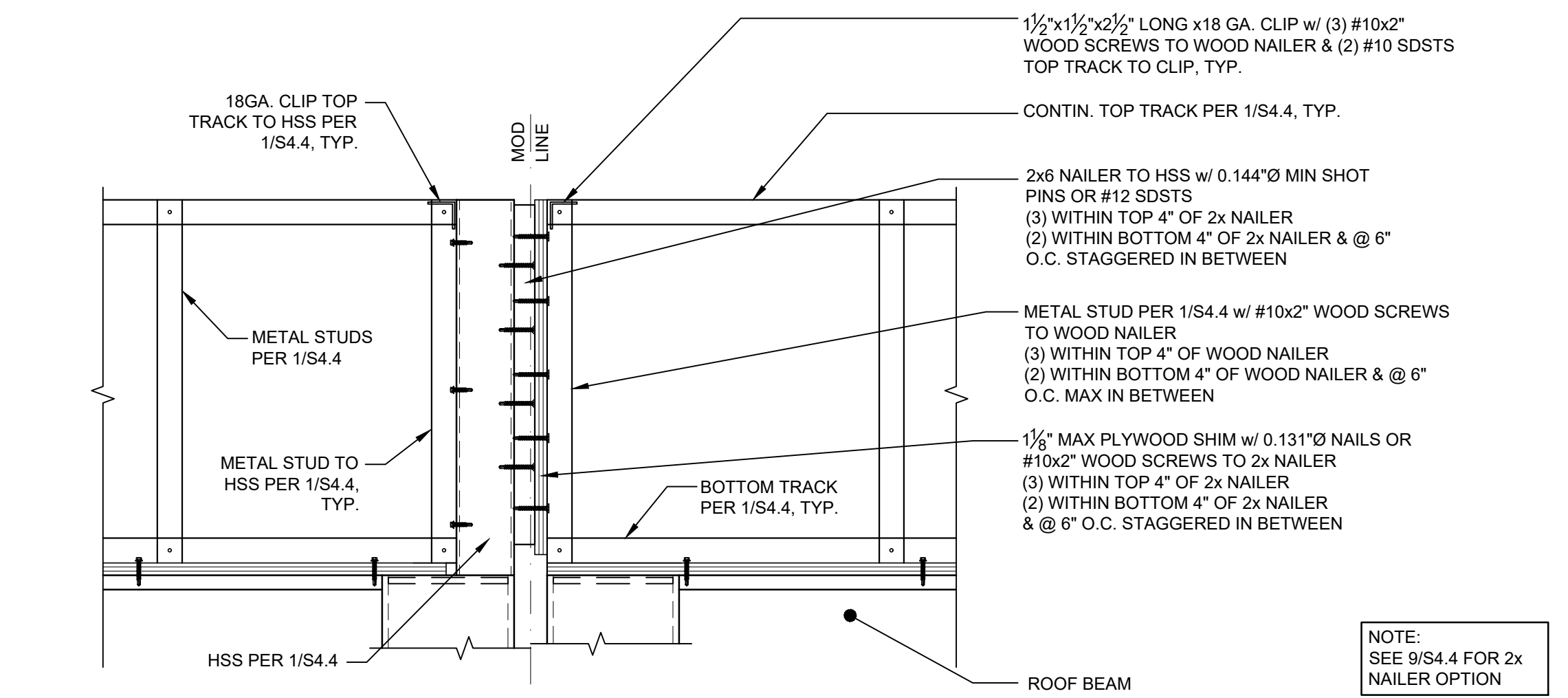




PARAPET @ CORNER SCALE: 1 1/2"=1'-0" 1



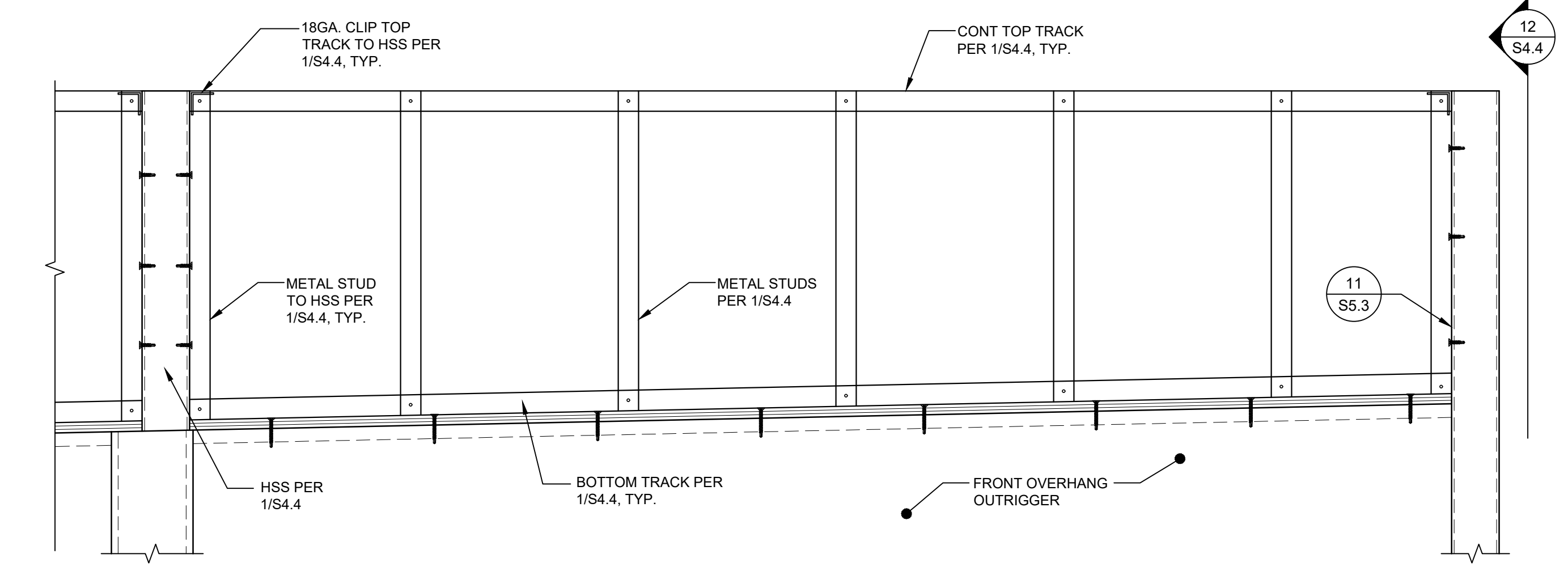
PARAPET @ LONGITUDINAL FRAMES SCALE: 1 1/2"=1'-0" 2



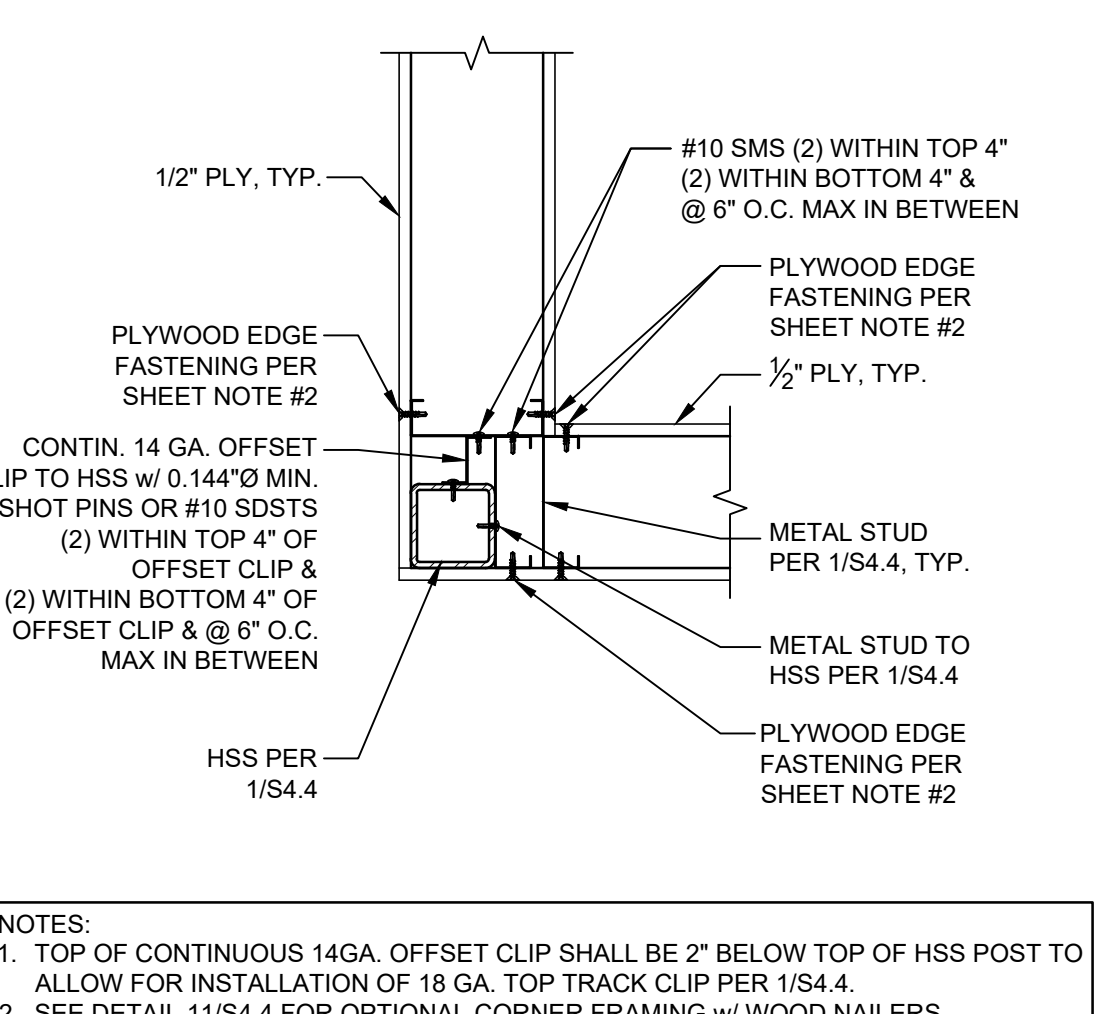
PARAPET @ MODLINE OVER TRANSVERSE FRAMES SCALE: 1 1/2"=1'-0" 3



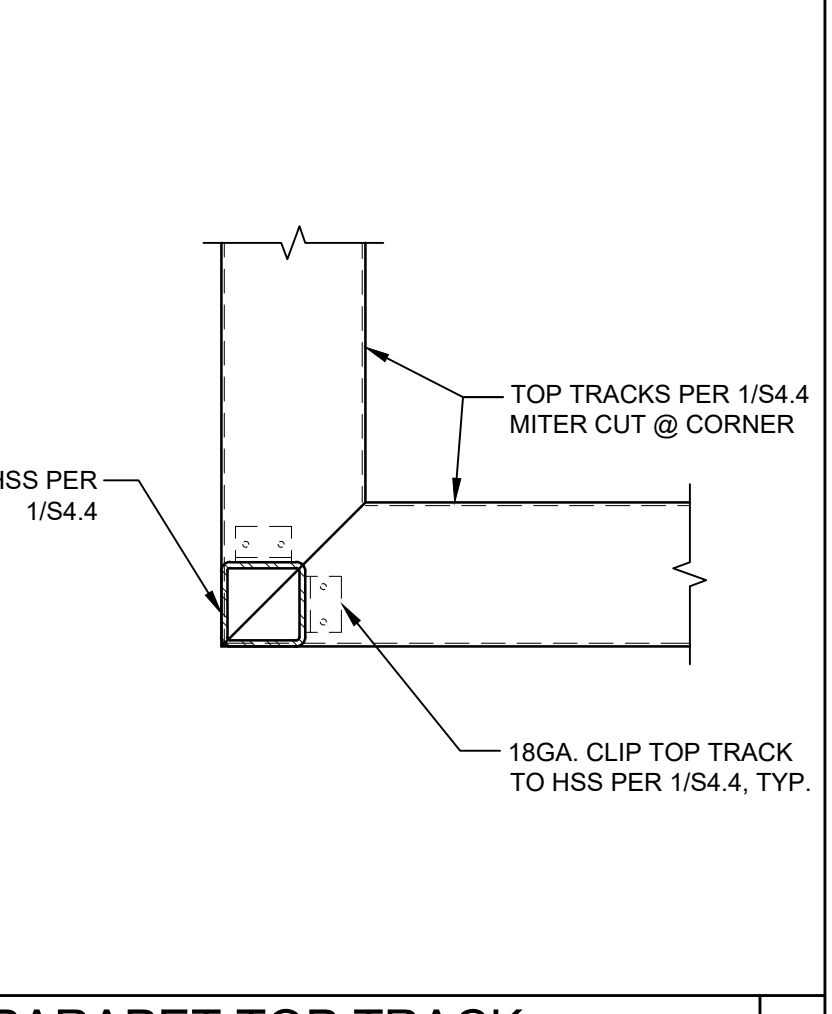
NOT USED SCALE: 1 1/2"=1'-0" 4



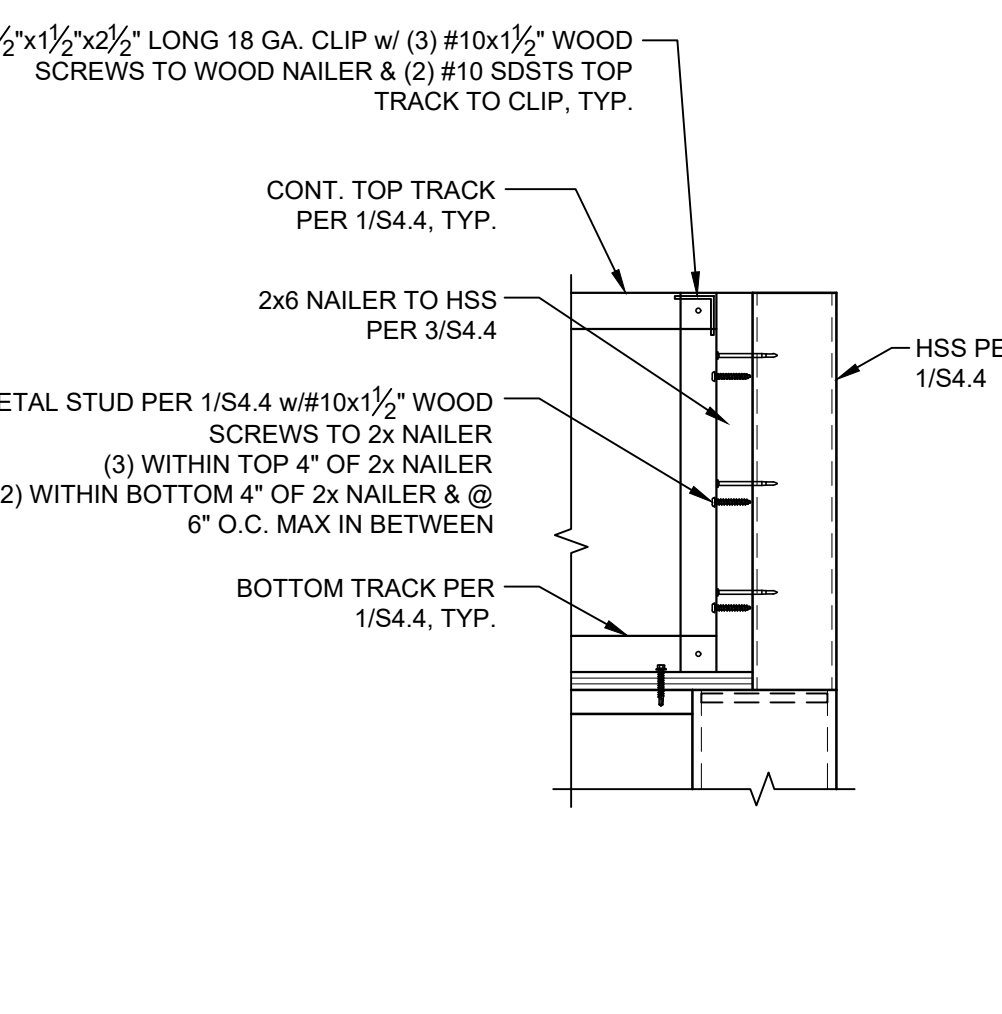
PARAPET AT FRONT OVERHANG SCALE: 1 1/2"=1'-0" 5



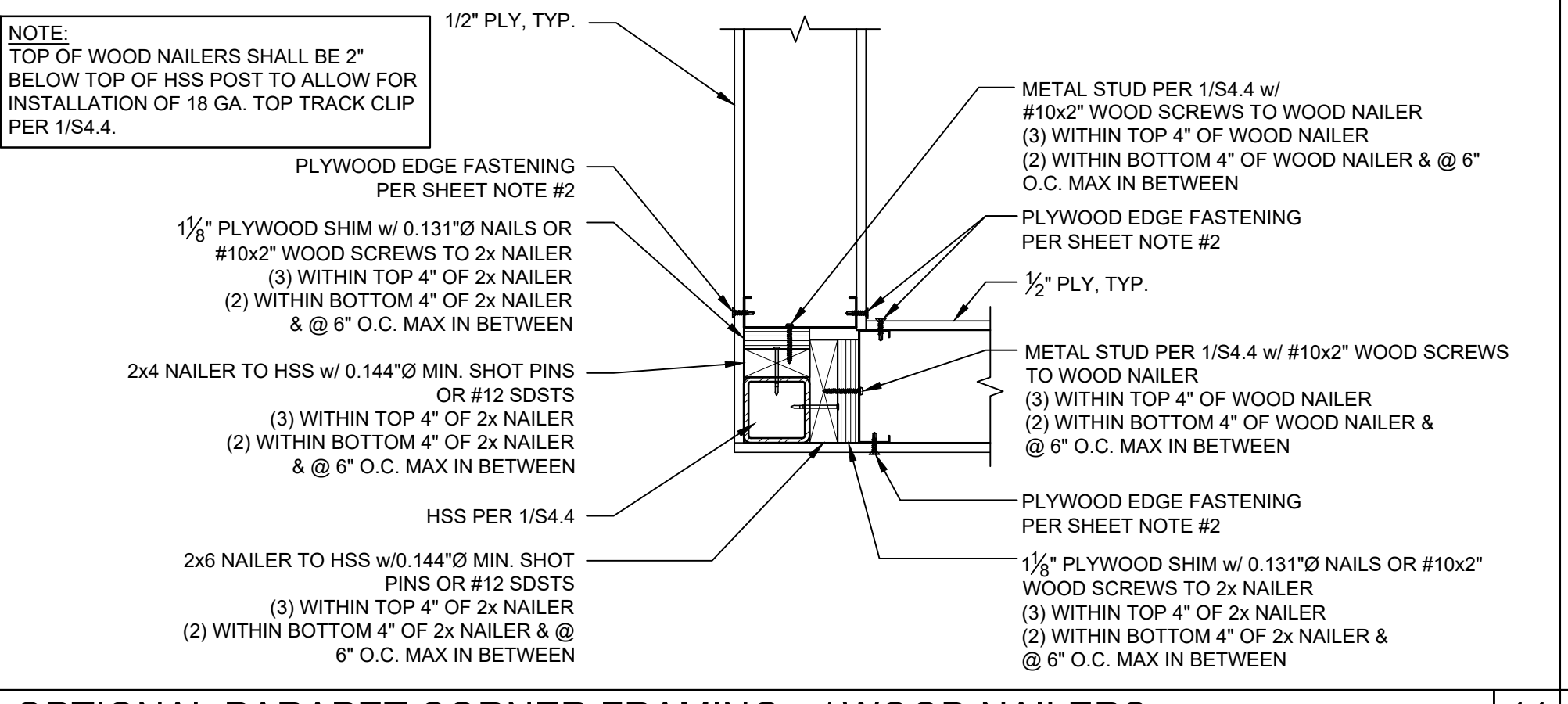
PARAPET CORNER FRAMING DETAIL SCALE: 1 1/2"=1'-0" 6



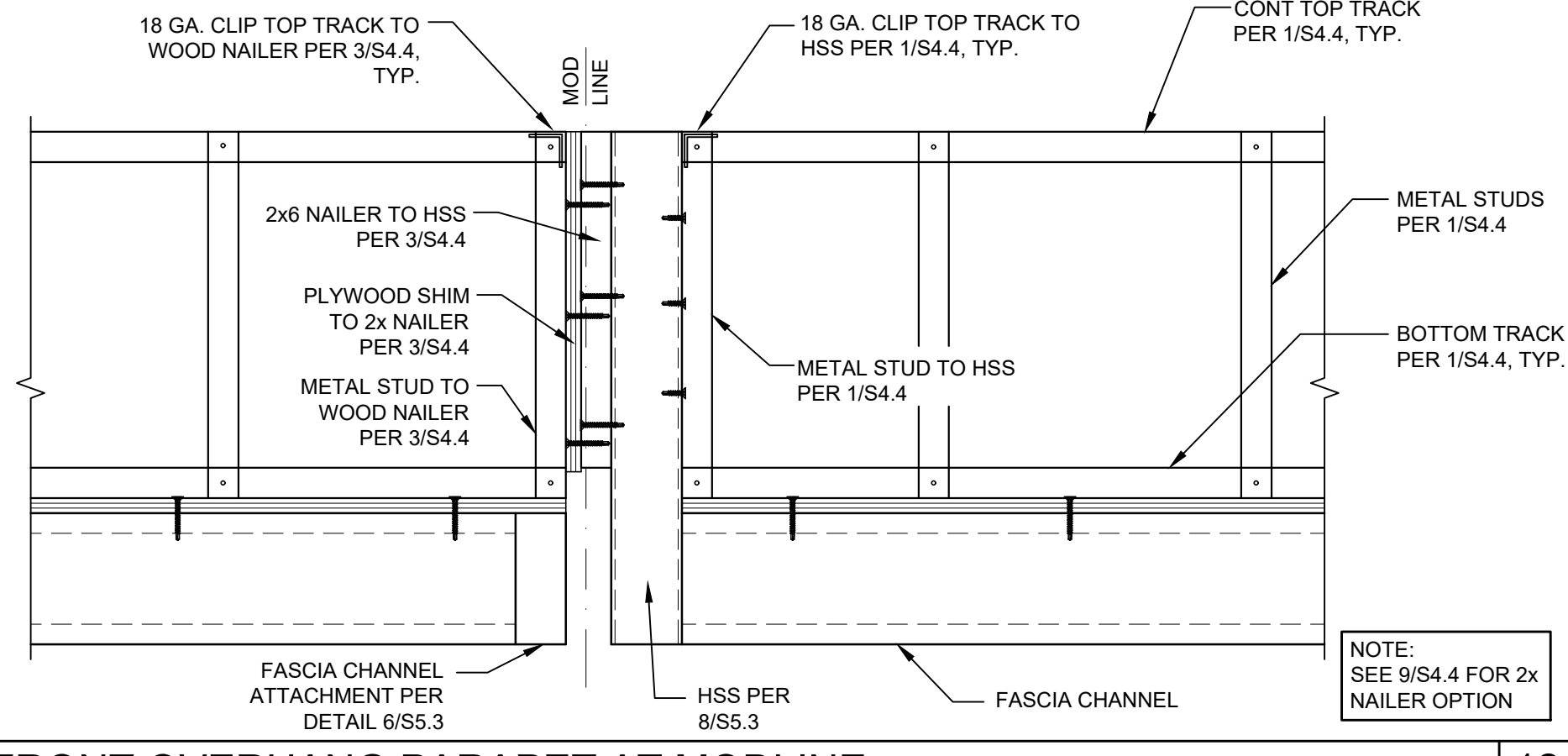
PARAPET TOP TRACK CORNER DETAIL SCALE: 1 1/2"=1'-0" 7



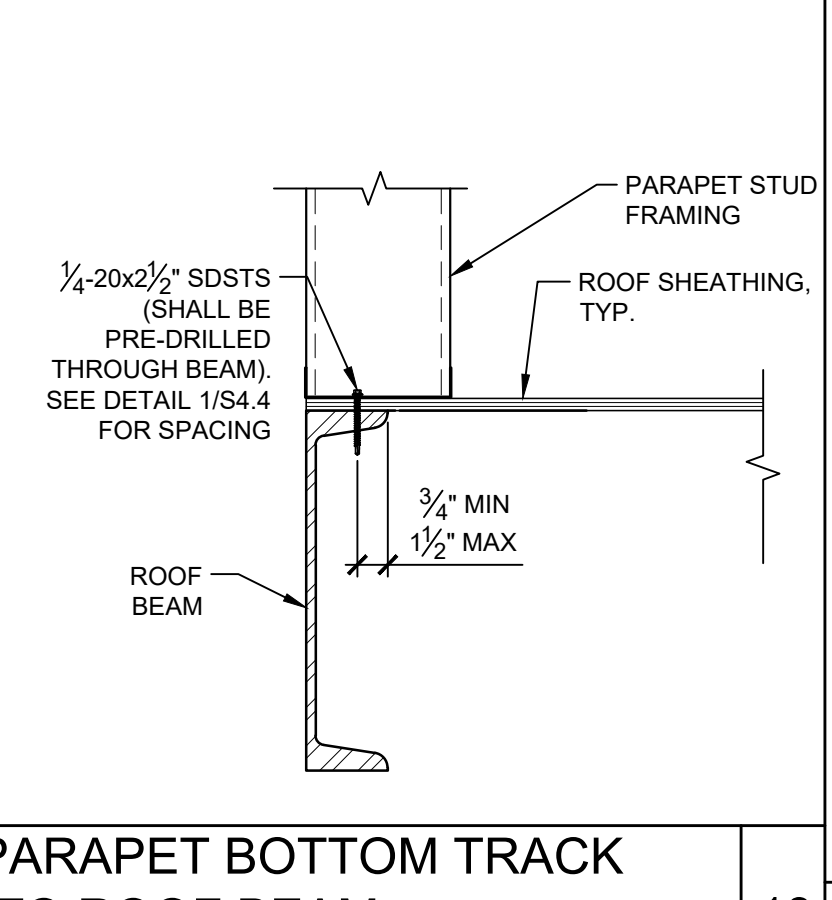
2x NAILER OPTION SCALE: 1 1/2"=1'-0" 8



OPTIONAL PARAPET CORNER FRAMING w/ WOOD NAILERS SCALE: 1 1/2"=1'-0" 11



FRONT OVERHANG PARAPET AT MODLINE SCALE: 1 1/2"=1'-0" 12



PARAPET BOTTOM TRACK TO ROOF BEAM SCALE: 1 1/2"=1'-0" 13

**SHEET NOTES**

NOTES:

- ALL SHOT PINS AND SDSTS SHALL HAVE A CODE APPROVED EVALUATION REPORT.
- PLYWOOD FASTENING: #10 S.T.S.M.S. COMPLYING w/ ASTM C1513, @ 6" O.C. EDGE & 12" O.C. FIELD

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SET NAME  
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**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD ON PC  
**Patricia Cantu**  
LICENSED ARCHITECT  
No. C12631  
Ren. 3-31-23  
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**Manly D. Franch**  
REGISTERED PROFESSIONAL ENGINEER  
No. S3380  
STRUCTURAL  
STATE OF CALIFORNIA

09/20/2021  
RST#20203

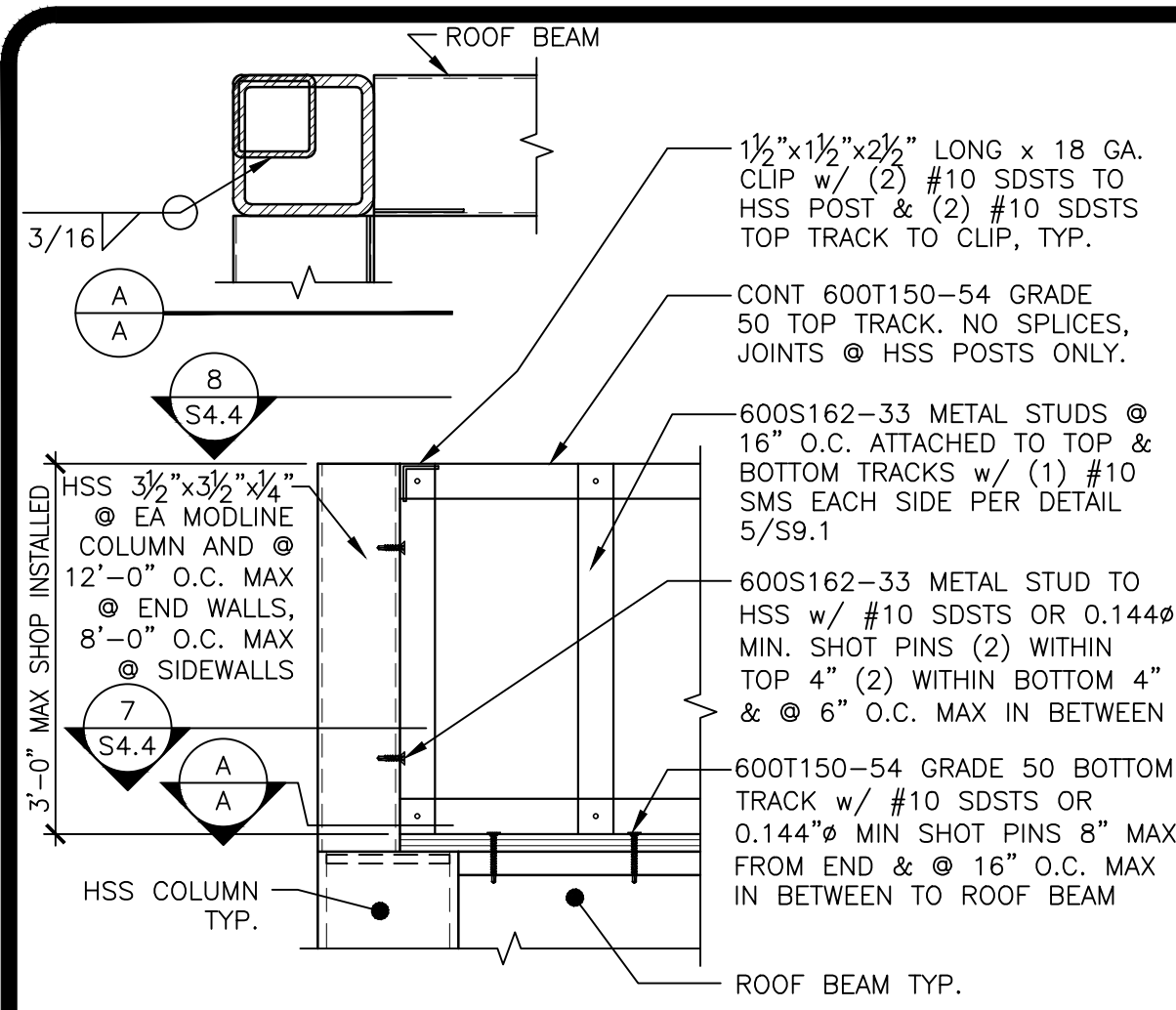
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REVISIONS

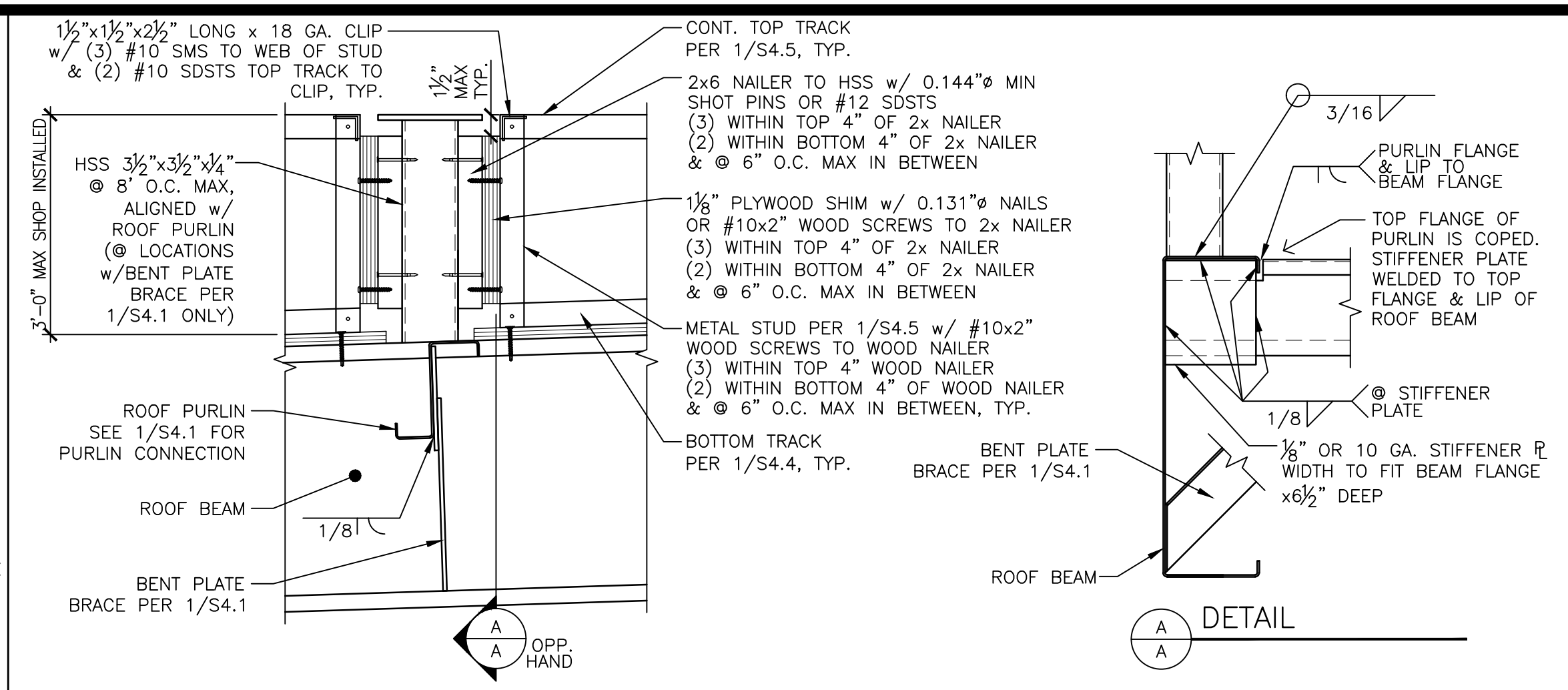
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DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20  
SHEET TITLE: PARAPET DETAILS  
SHEET NUMBER: **S4.4**

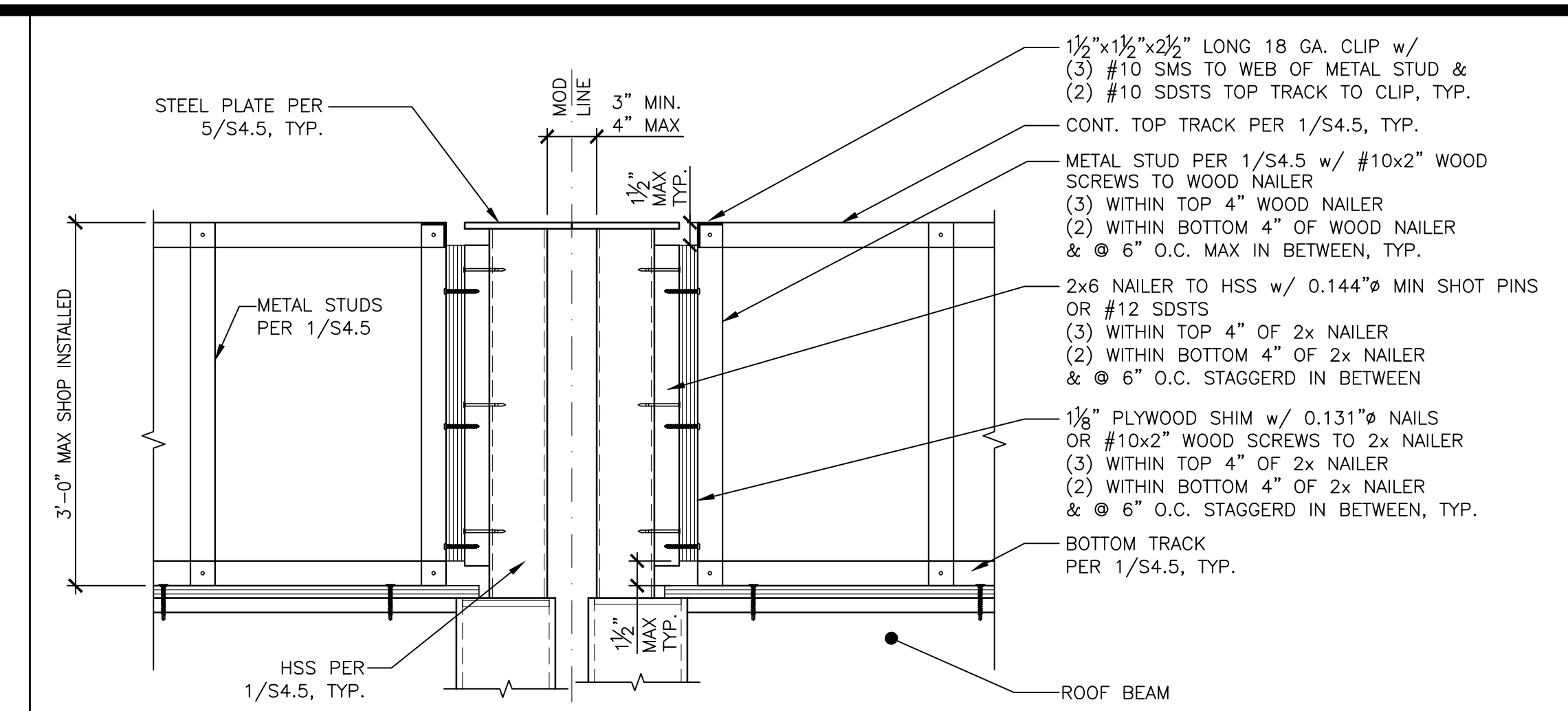
BID SET 10/01/2021



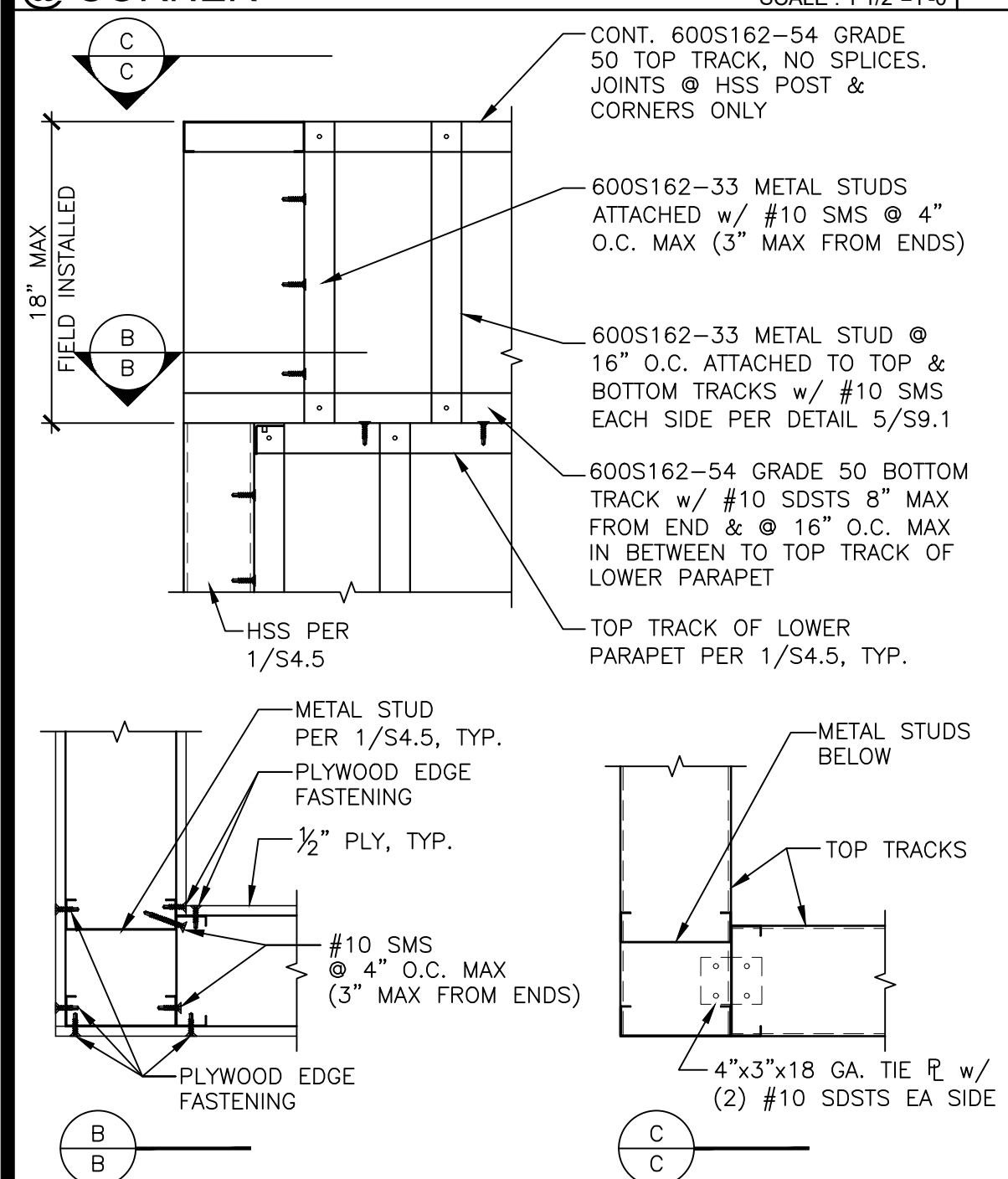
SHOP INSTALLED LOWER PARAPET @ CORNER SCALE: 1 1/2"=1'-0" 1



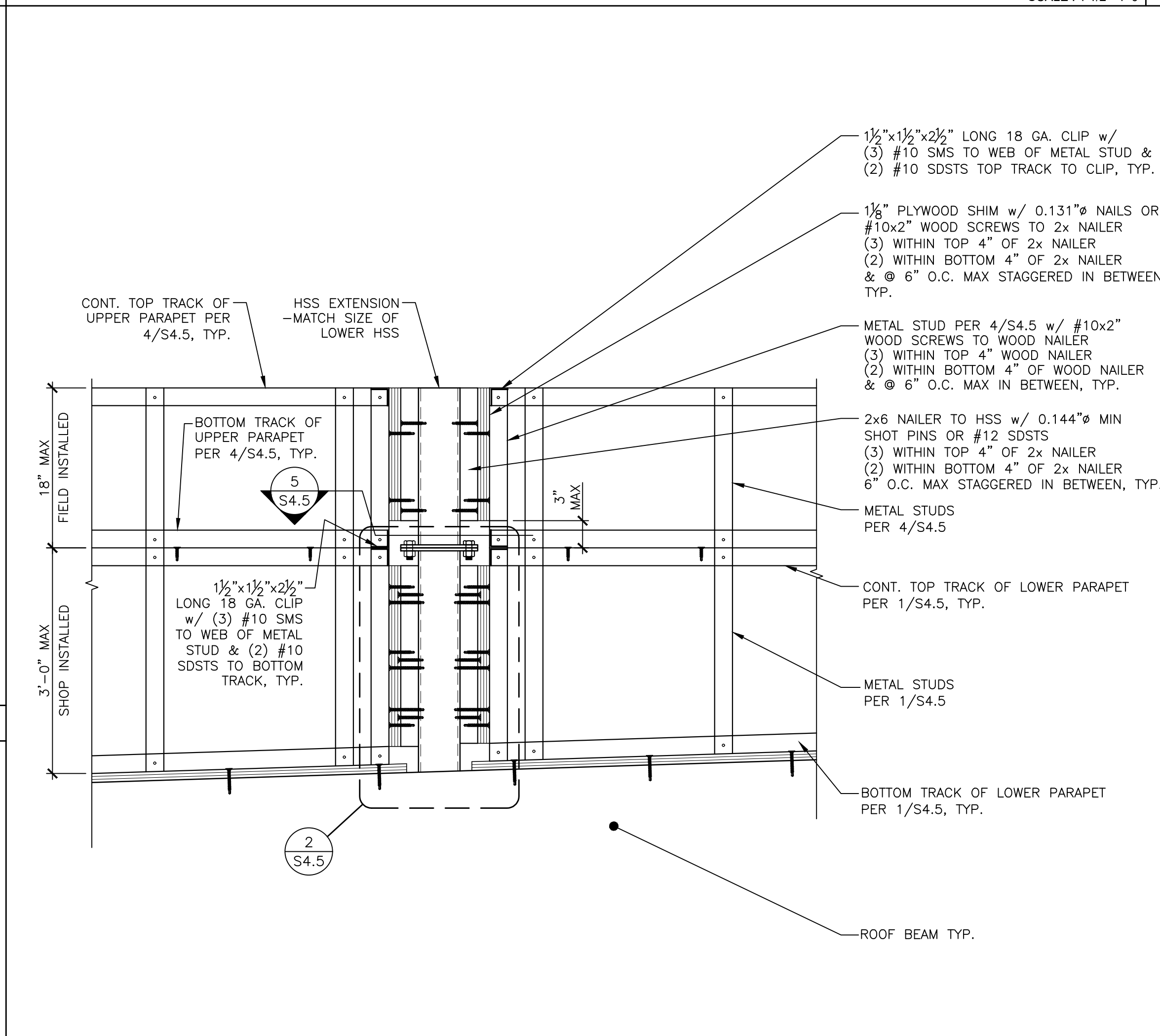
SHOP INSTALLED LOWER PARAPET @ SIDEWALL SCALE: 1 1/2"=1'-0" 2



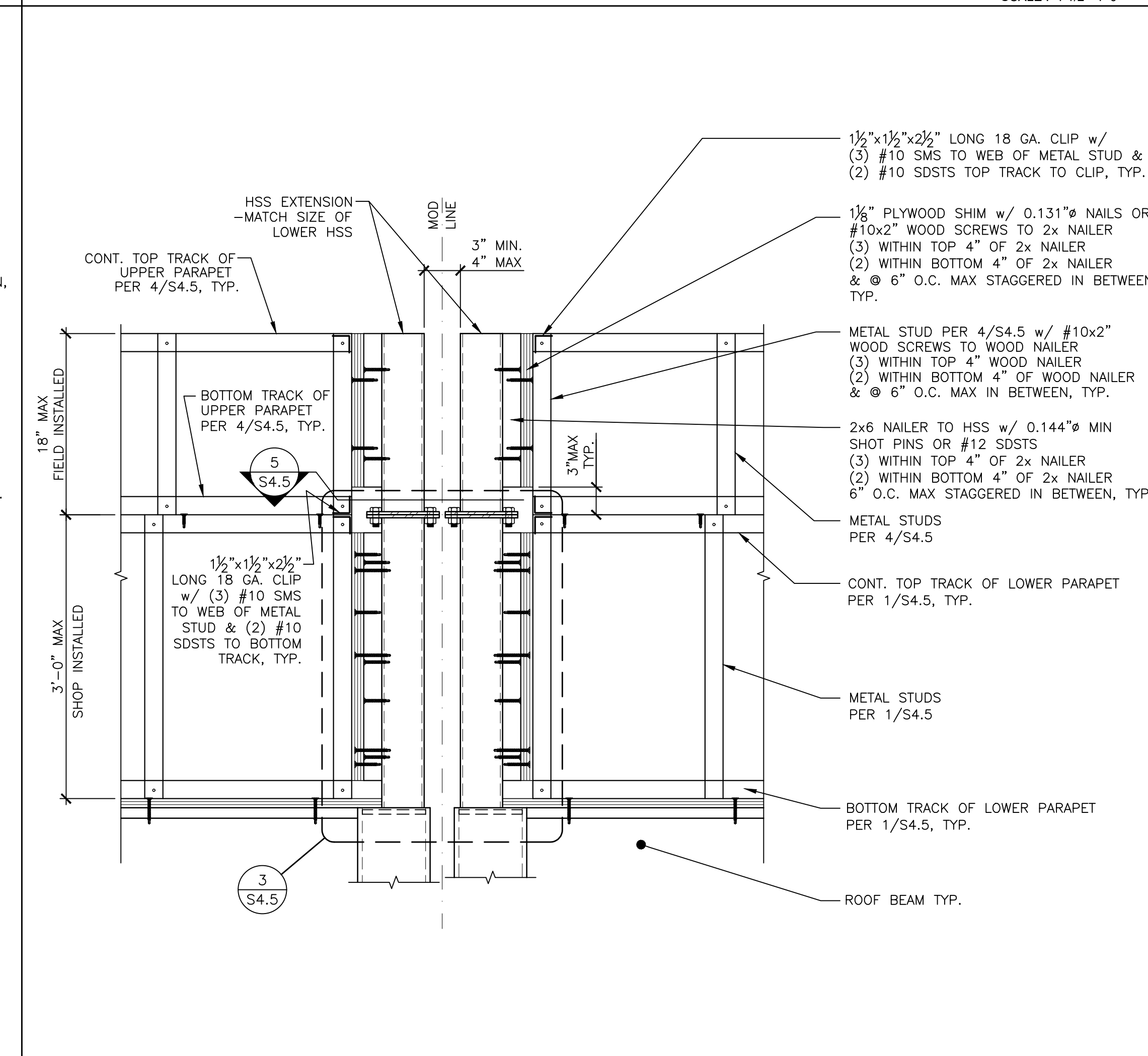
SHOP INSTALLED LOWER PARAPET DETAIL @ MODLINE SCALE: 1 1/2"=1'-0" 3



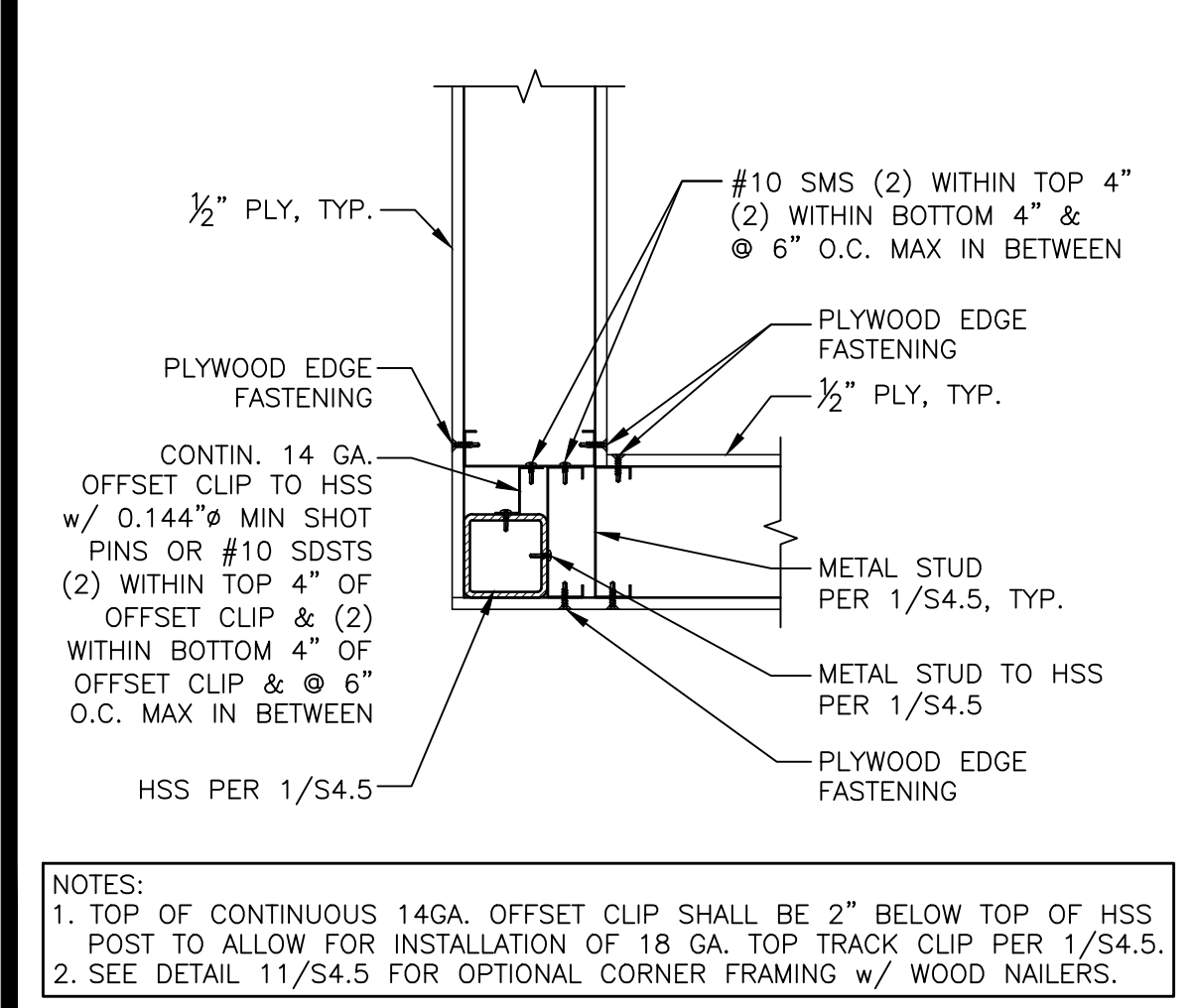
FIELD INSTALLED EXTENSION @ CORNERS SCALE: 1 1/2"=1'-0" 4



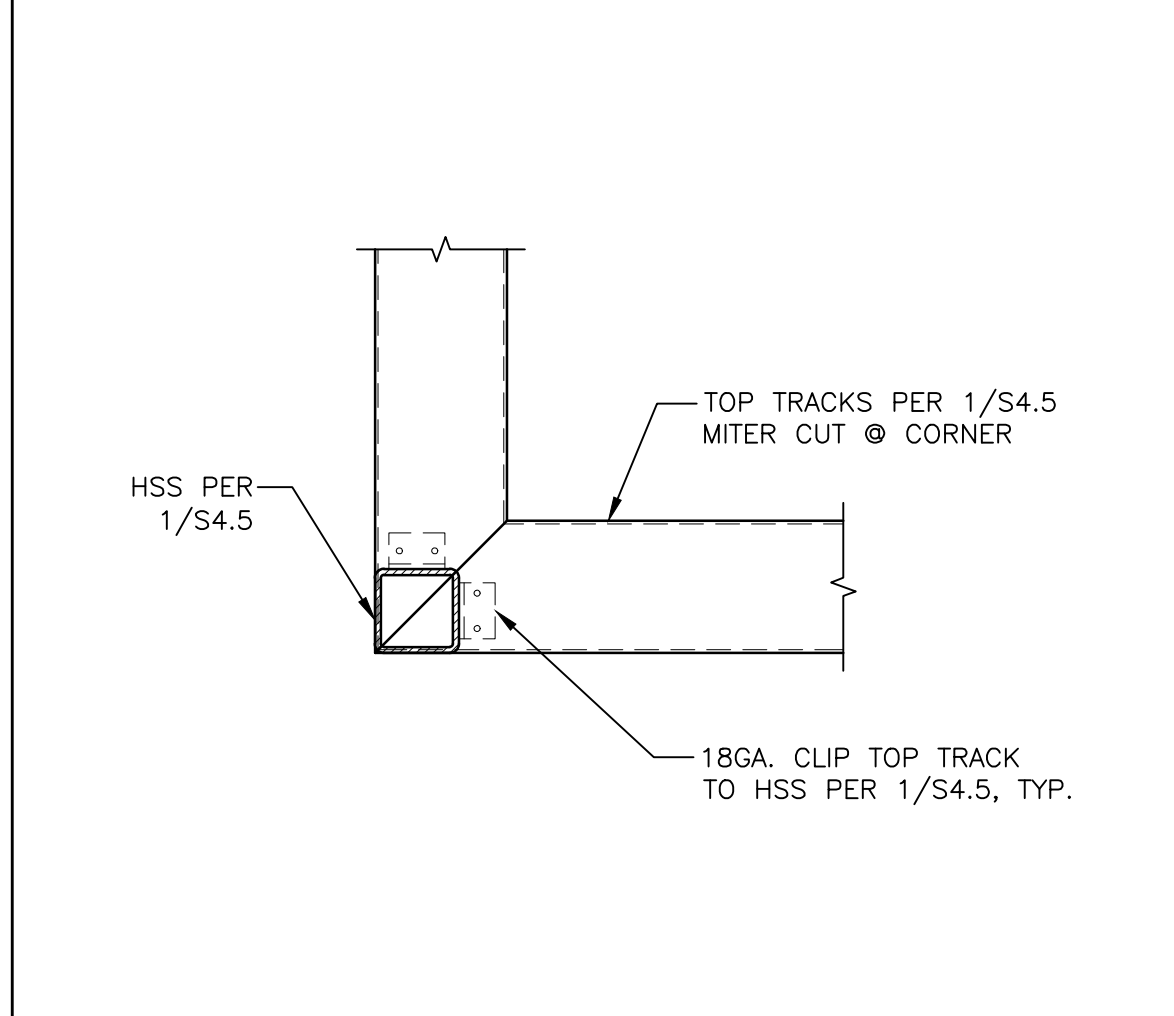
FIELD INSTALLED PARAPET EXTENSION @ SIDEWALL SCALE: 1 1/2"=1'-0" 5



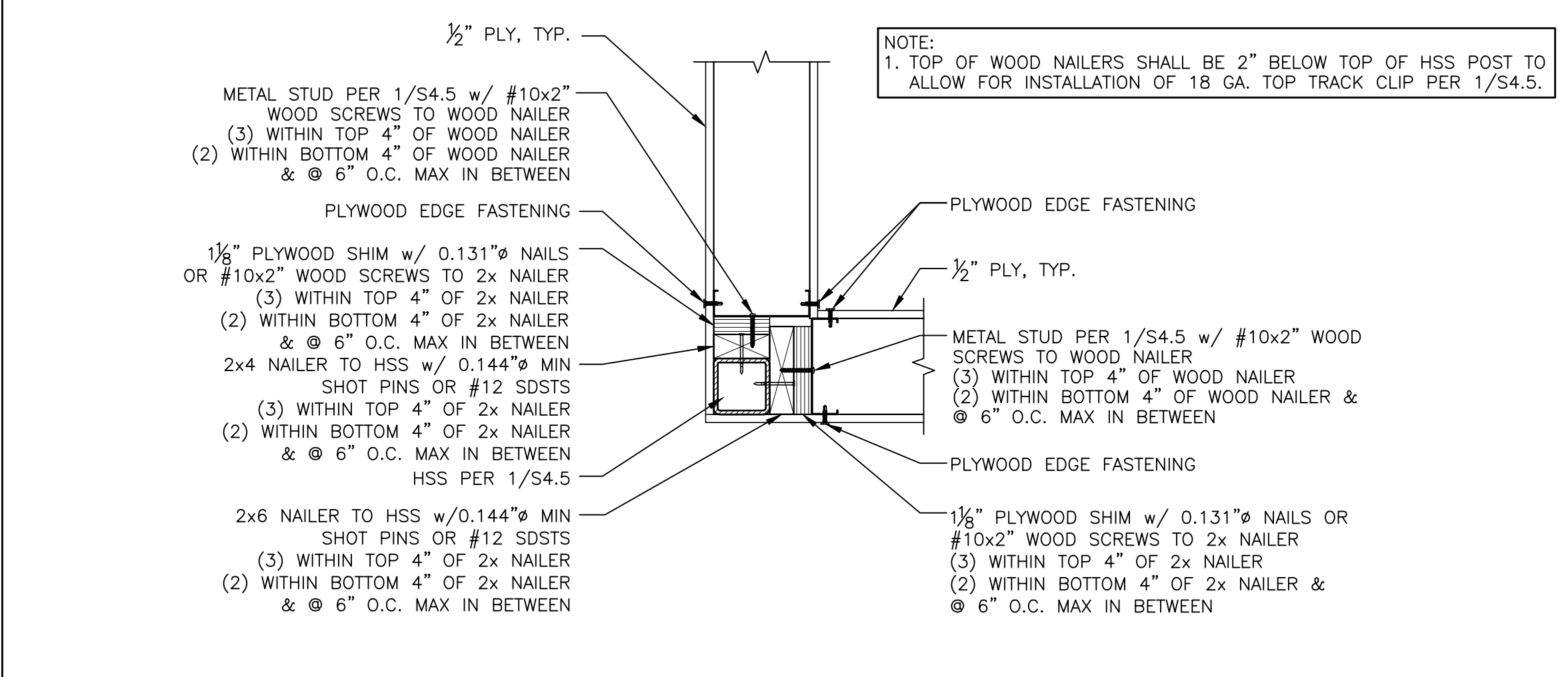
FIELD INSTALLED PARAPET EXTENSION @ MODLINES SCALE: 1 1/2"=1'-0" 6



PARAPET CORNER FRAMING DETAIL 9



PARAPET TOP TRACK CORNER DETAIL 10



OPTIONAL PARAPET CORNER FRAMING w/ WOOD NAILERS 11

NOTES:  
 1. ALL SHOT PINS AND SDSTS SHALL HAVE A CODE APPROVED EVALUATION REPORT.  
 2. PLYWOOD FASTENING: #10 S.M.S. @ 6" O.C. EDGE & 12" O.C. FIELD  
 3. PARAPETS ARE NOT PERMITTED AT INTERIOR MODLINE BEAMS.

SHEET NOTES 11

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Manteca, CA 95336  
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---

SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

---

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

---

MANUFACTURER PROFESSIONAL OF RECORD

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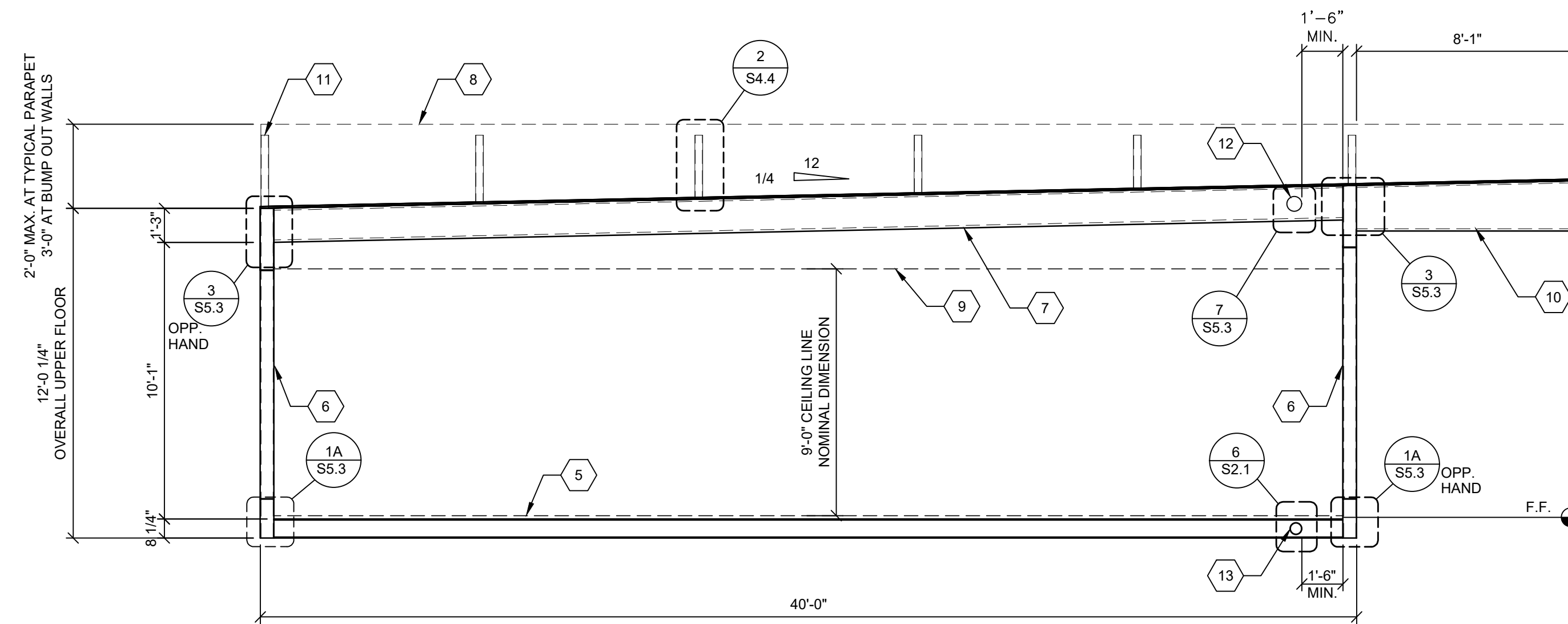
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REVISIONS


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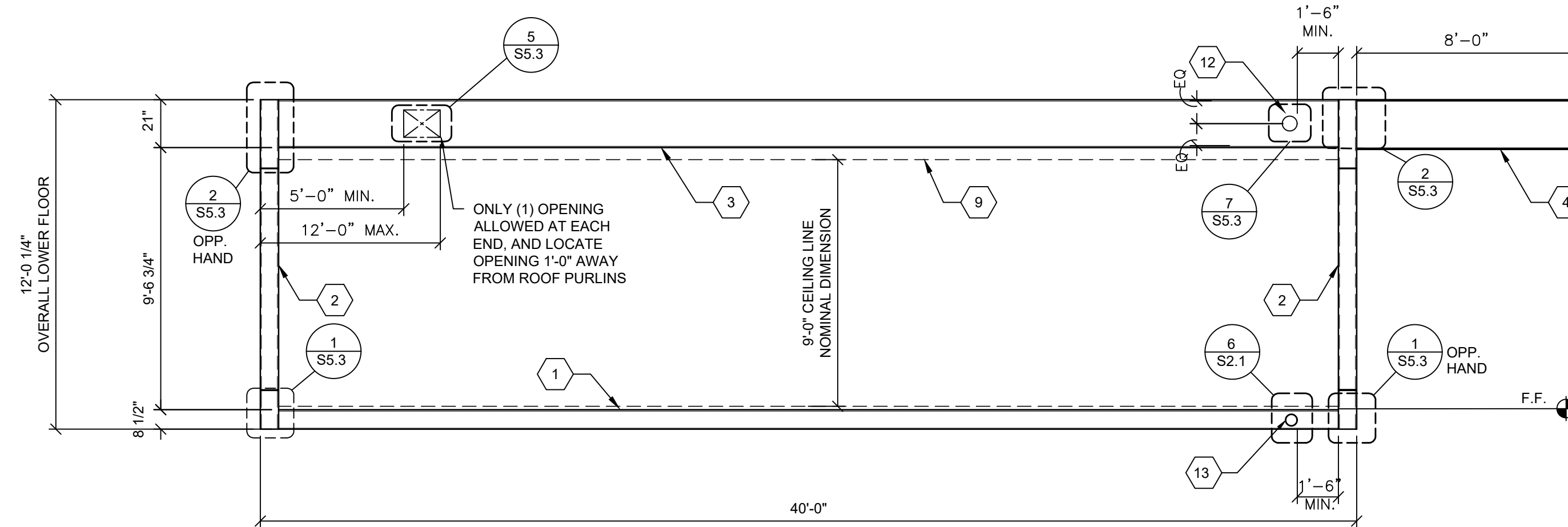
DRAWN BY: AH  
 SCALE: AS NOTED  
 DATE: 10/01/21  
 PROJECT NO: 1613-20  
 SHEET TITLE:  
**4'-6" MAX HEIGHT PARAPET DETAILS**  
 SHEET NUMBER:  
**S4.5**

BID SET 10/01/2021



UPPER FLOOR LONGITUDINAL FRAME ELEVATION

1



GROUND FLOOR LONGITUDINAL FRAME ELEVATION

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

2

- KEY NOTES**
- 1 GROUND FLOOR FLOOR BEAM - SEE SCHEDULE BELOW
  - 2 GROUND FLOOR HSS COLUMN - SEE SCHEDULE BELOW
  - 3 GROUND FLOOR ROOF BEAM - SEE SCHEDULE BELOW
  - 4 GROUND FLOOR ROOF OVERHANG OUTRIGGER BEAM - SEE SCHEDULE BELOW
  - 5 UPPER FLOOR FLOOR BEAM - SEE SCHEDULE BELOW
  - 6 UPPER FLOOR HSS COLUMN - SEE SCHEDULE BELOW
  - 7 UPPER FLOOR ROOF BEAM - SEE SCHEDULE BELOW
  - 8 PARAPET LINE (NOTE: PARAPETS NOT PERMITTED AT INTERIOR MODLINE BEAMS)
  - 9 CEILING LINE
  - 10 TAPERED 20"-22" DEEP x 14GA UPPER FLOOR FORMED OVERHANG OUTRIGGER CHANNEL - REFER TO S0.0
  - 11 HSS 3 1/2x3 1/2x1/4 PARAPET COLUMN @ 12'-0" O.C. MAX SEE SHEETS S4.4 FOR DETAILS (NOTE: PARAPETS NOT PERMITTED AT INTERIOR MODLINES BEAMS)
  - 12 6" MAX OPENING IN WEB OF ROOF BEAM WITHOUT WEB REINFORCEMENT PER DETAIL S12.1 SPACED @ 48" O.C. MIN. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM WITH DIRECT FOUNDATION SUPPORT BELOW EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION. OPENINGS ARE NOT ALLOWED WHERE BEAMS ARE SPANNING BETWEEN FOUNDATION OR ACROSS VENT OPENINGS
  - 13 4" Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT PER DETAIL S12.1 SPACED @ 48" O.C. MIN. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF FLOOR BEAM WITH DIRECT FOUNDATION SUPPORT BELOW EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION. OPENINGS ARE NOT ALLOWED WHERE BEAMS ARE SPANNING BETWEEN FOUNDATION OR ACROSS VENT OPENINGS
- NOTE: IF HOLED ARE 3" Ø OR LESS, THEY MAY BE SPACED @ 24" O.C. MIN. w/ NO REINFORCEMENT REQUIRED
- NOTE: IF HOLED ARE 2" Ø OR LESS, THEY MAY BE SPACED @ 24" O.C. MIN.

**AMS**  
American Modular Systems

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**SET NAME**

(2) 72'x40' 2 STORY CLASSROOM BUILDINGS

**SITE SPECIFIC PROJECT NAME**

GLENDALE USD  
GLENOAKS  
ELEMENTARY SCHOOL

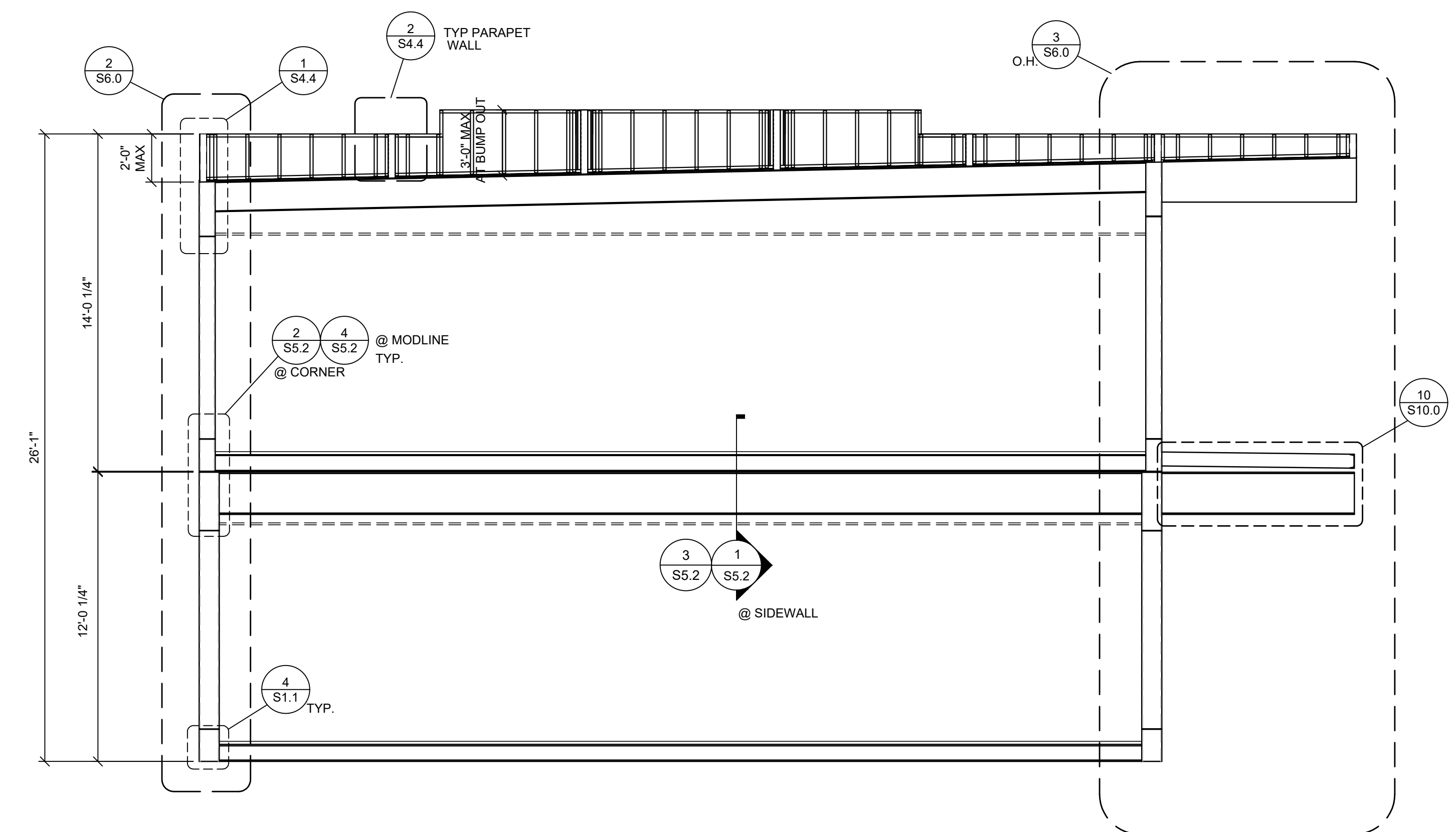
MANUFACTURER PROFESSIONAL OF RECORD ON PC

**REGISTERED ARCHITECT**  
PATRICK CANNON  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

**REGISTERED PROFESSIONAL ENGINEER**  
MANNY D. FROST  
No. S3380  
STRUCTURAL  
STATE OF CALIFORNIA

09/20/2021  
RST#20203

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LONGITUDINAL BUILDING ELEVATION

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

3

**FRAME MEMBER SCHEDULE**

	FLOOR BEAMS	COLUMNS	ROOF BEAMS	ROOF OVERHANG OUTRIGGER BEAM
<b>UPPER FLOOR</b>	W8x21	HSS 8x8x1/2	C15x33.9 (50 KSI)	PER KEYNOTE 10 ABOVE
<b>GROUND FLOOR</b>	W8x48	HSS 10x10x1/2	W21x62	W21x62

FRAME MEMBER SCHEDULE

3B

**REVISIONS**

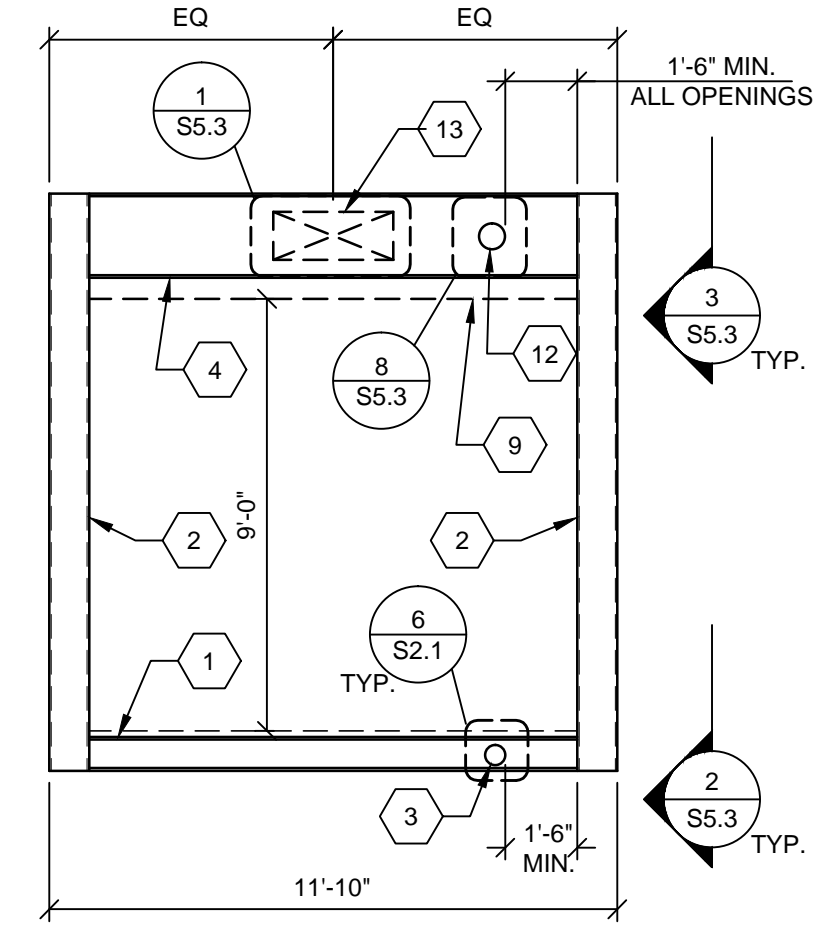
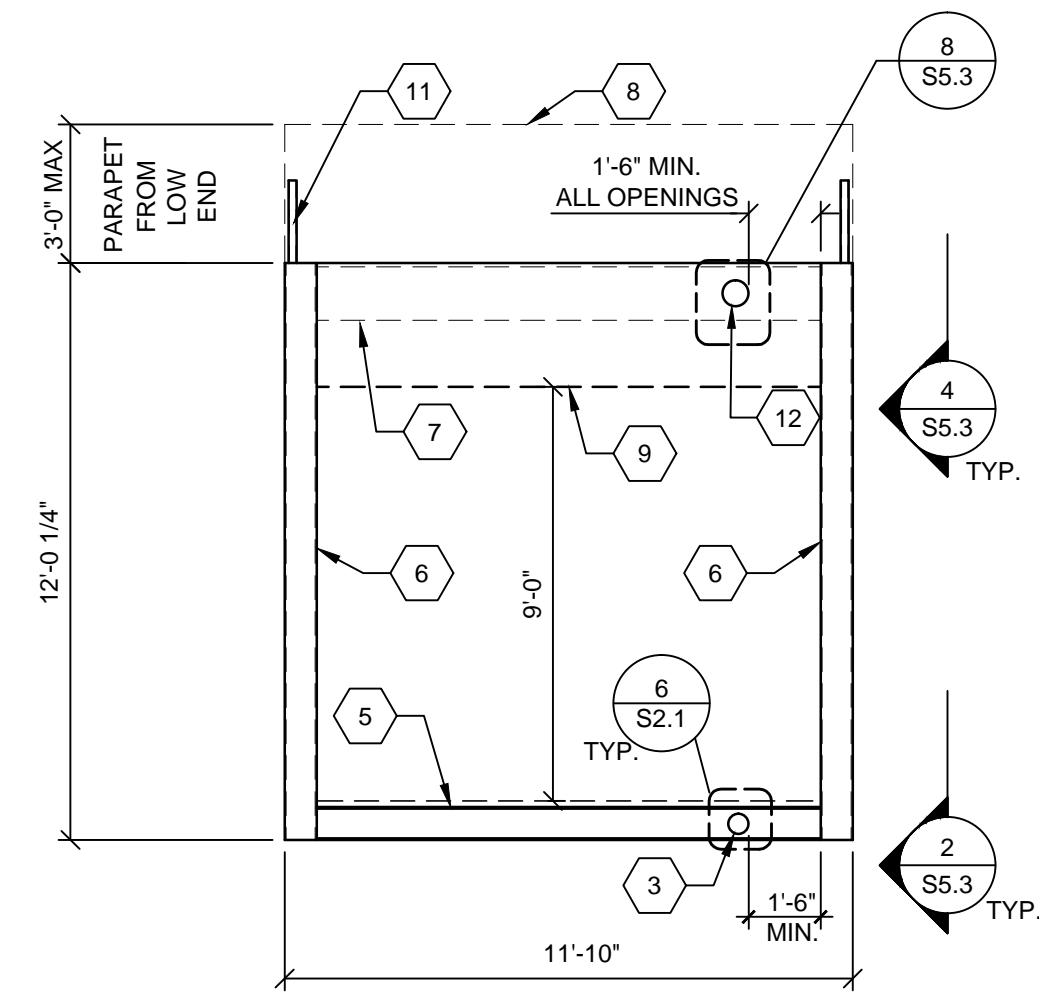

DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20

SHEET TITLE:  
LONGITUDINAL MOMENT FRAME ELEVATIONS

SHEET NUMBER:

**S5.0**

BID SET 10/01/2021



- 1 GROUND FLOOR FLOOR BEAM - SEE SCHEDULE SHEET S5.0
- 2 GROUND FLOOR HSS COLUMN - SEE SCHEDULE SHEET S5.0
- 3 4"Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT PER DETAIL S/S2.1 SPACED @ 48" O.C. MIN. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF FLOOR BEAM WITH DIRECT FOUNDATION SUPPORT BELOW. OPENINGS ARE NOT ALLOWED WHERE BEAMS ARE SPANNING BETWEEN FOUNDATIONS OR ACROSS VENT OPENINGS
- 4 GROUND FLOOR ROOF BEAM - SEE SCHEDULE SHEET S5.0
- 5 UPPER FLOOR FLOOR BEAM - SEE SCHEDULE SHEET S5.0
- 6 UPPER FLOOR HSS COLUMN - SEE SCHEDULE SHEET S5.0
- 7 UPPER FLOOR ROOF BEAM - SEE SCHEDULE SHEET S5.0
- 8 PARAPET LINE
- 9 CEILING LINE NOMINAL 9'-0"
- 10 NOT USED
- 11 HSS 3 1/2x3 1/2x1/4" PARAPET COLUMN @ 12'-0" O.C. MAX - SEE SHEETS S4.4 FOR DETAILS
- 12 6"Ø MAX OPENING IN WEB OF ROOF BEAM WITHOUT WEB REINFORCING SPACE HOLES @ 48" O.C. MIN. HOLE CAN OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION.
- 13 BEAM OPENING PER 1/S5.3

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TYPICAL END FRAME SECTION UPPER FLOOR

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

TYPICAL END FRAME SECTION GROUND FLOOR

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

KEY NOTES

SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD

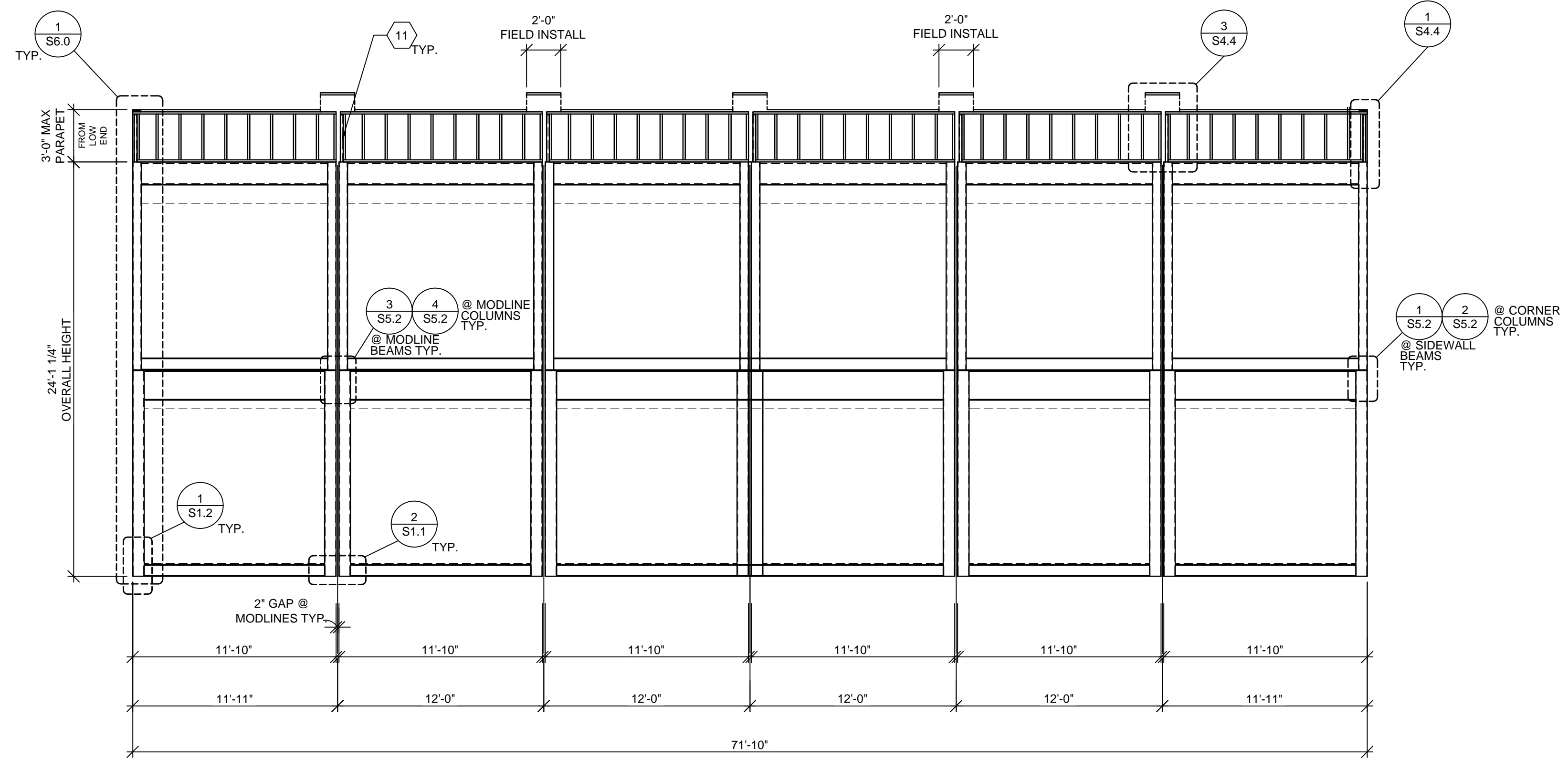
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REVISIONS


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 12/04/20  
PROJECT NO: 1614-20

SHEET TITLE:  
**TRANSVERSE MOMENT FRAME ELEVATIONS**

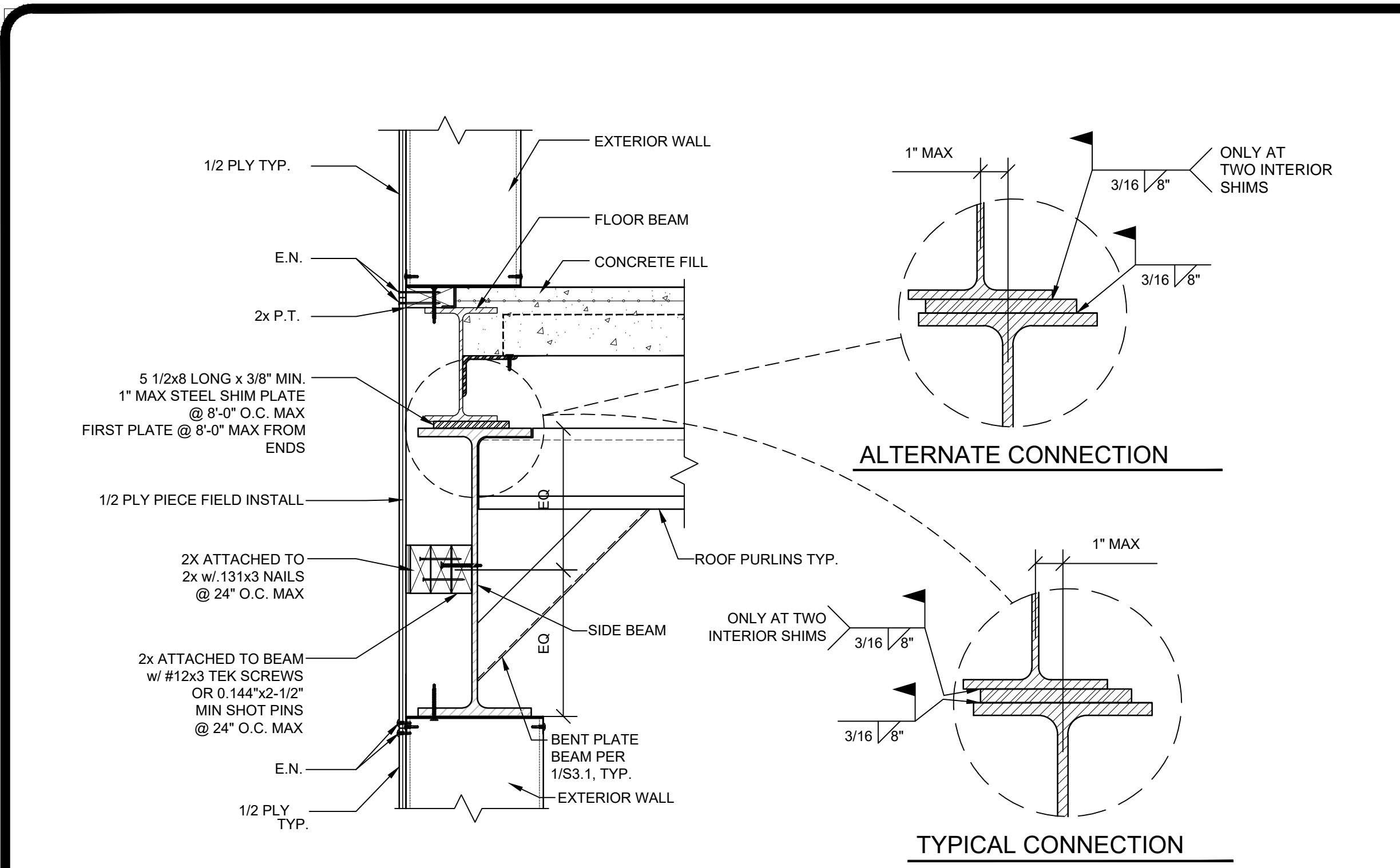
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**S5.1**



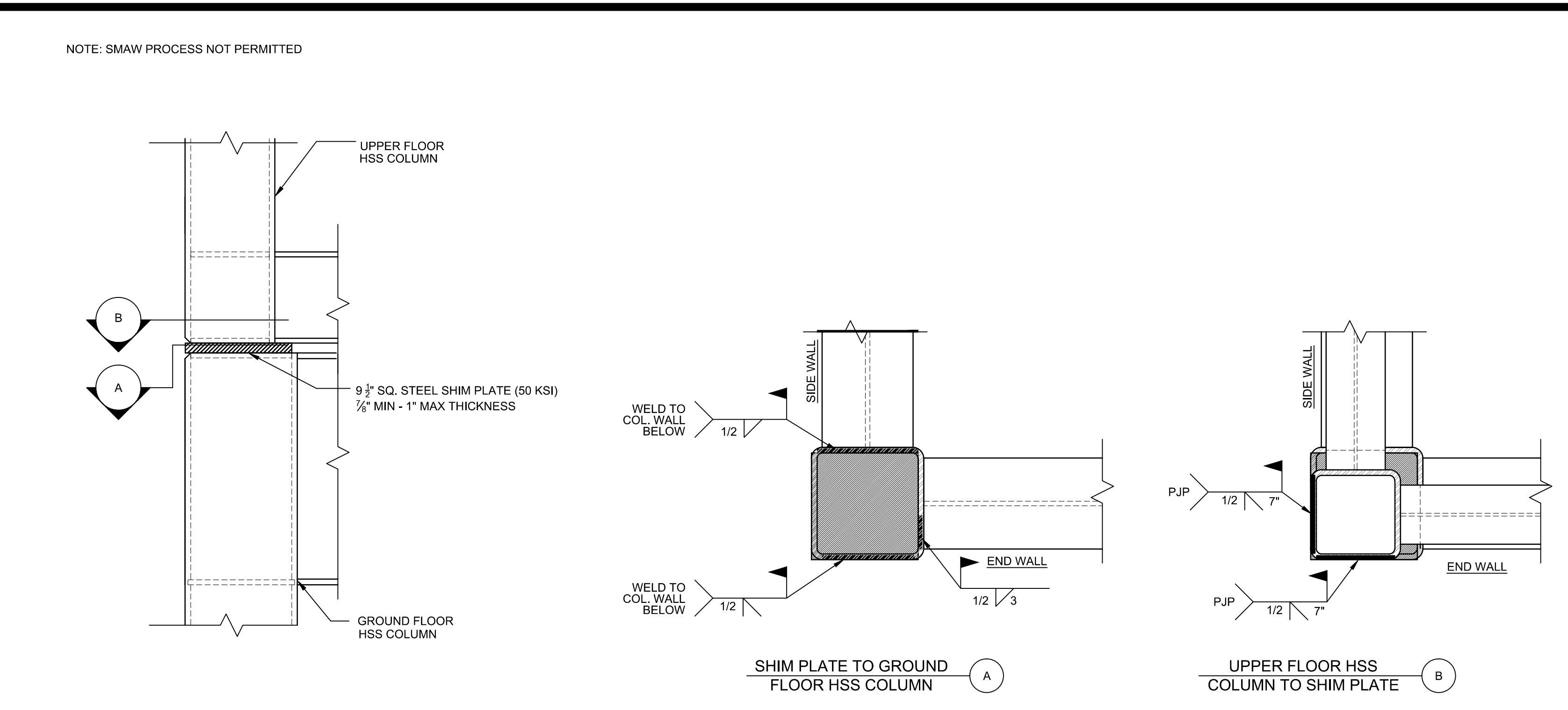
TRANSVERSE FRONT / REAR ELEVATION

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

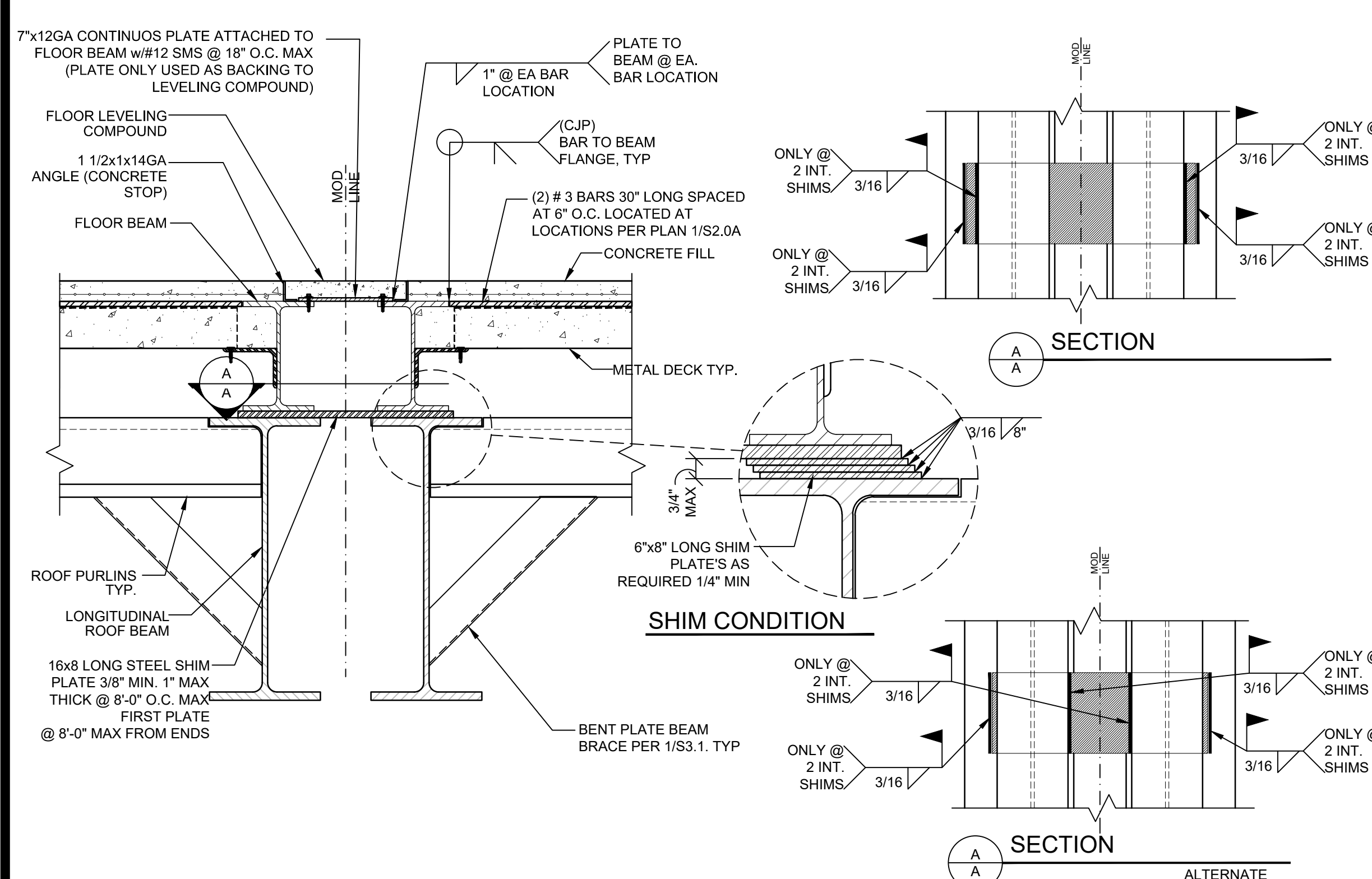
BID SET 10/01/2021



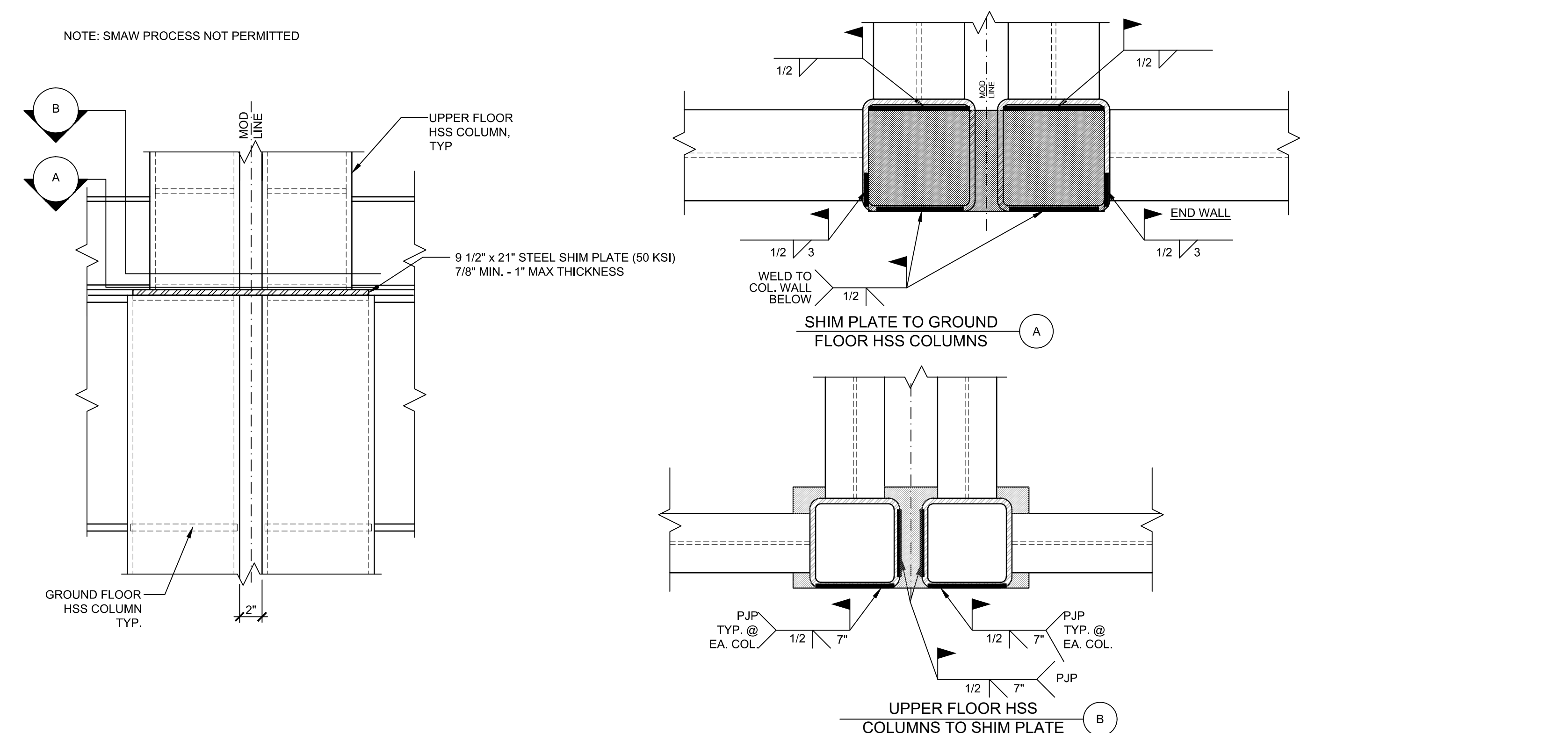
UPPER FLOOR TO GROUND FLOOR CONNECTION @ SIDES SCALE: 1 1/2"=1'-0" 1



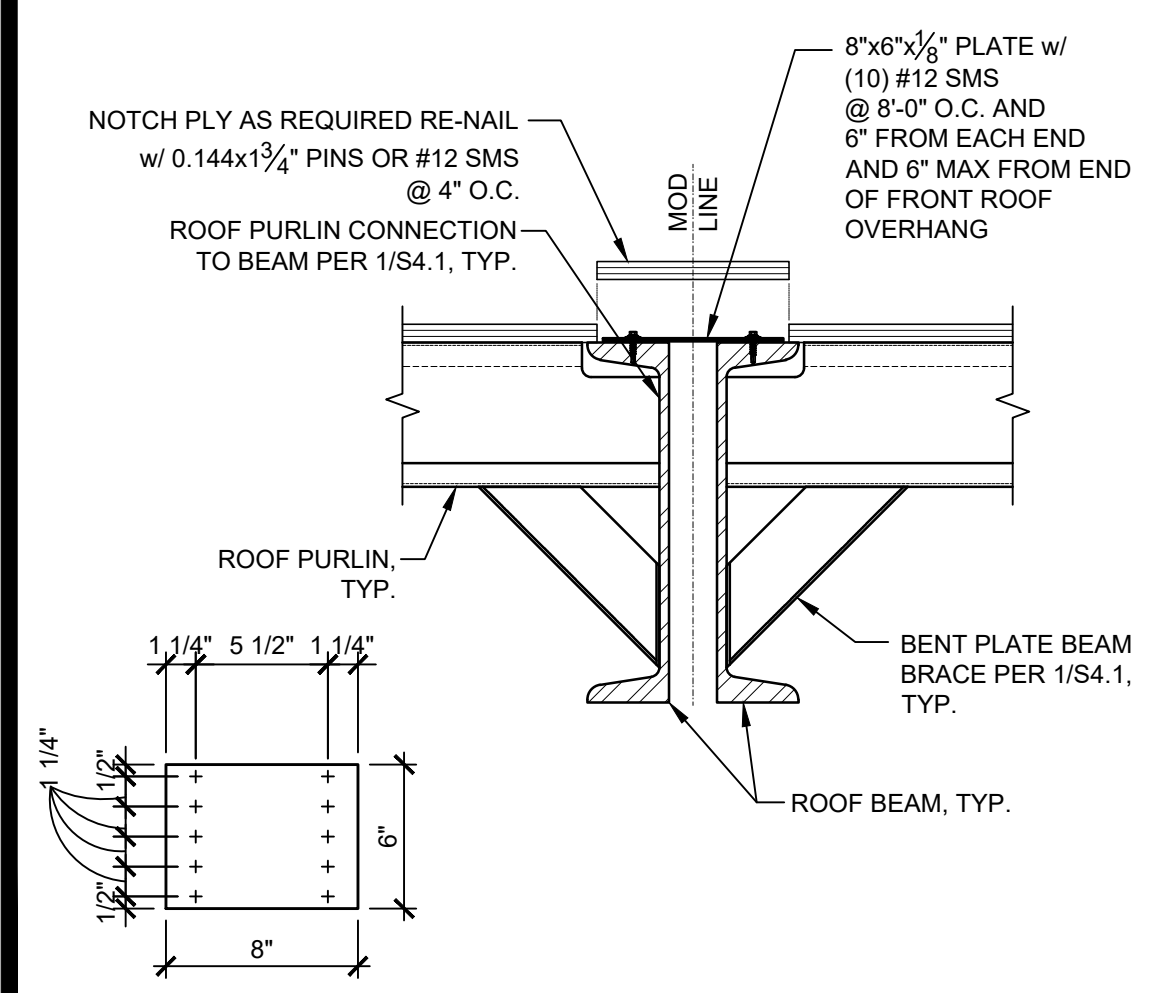
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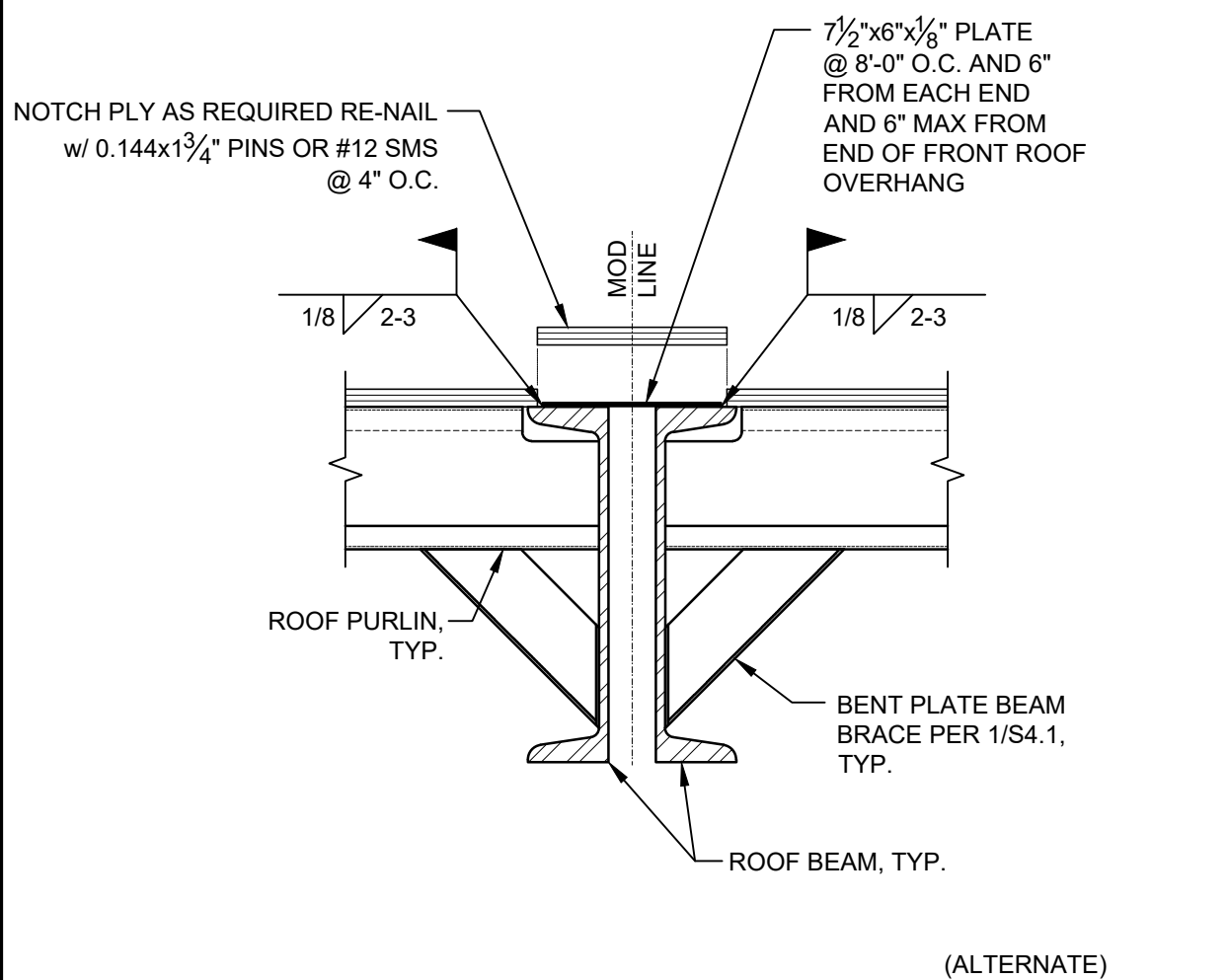
UPPER FLOOR TO GROUND FLOOR TYP. CONN @ MODLINES INTERMEDIATE POINTS SCALE: 1 1/2"=1'-0" 3



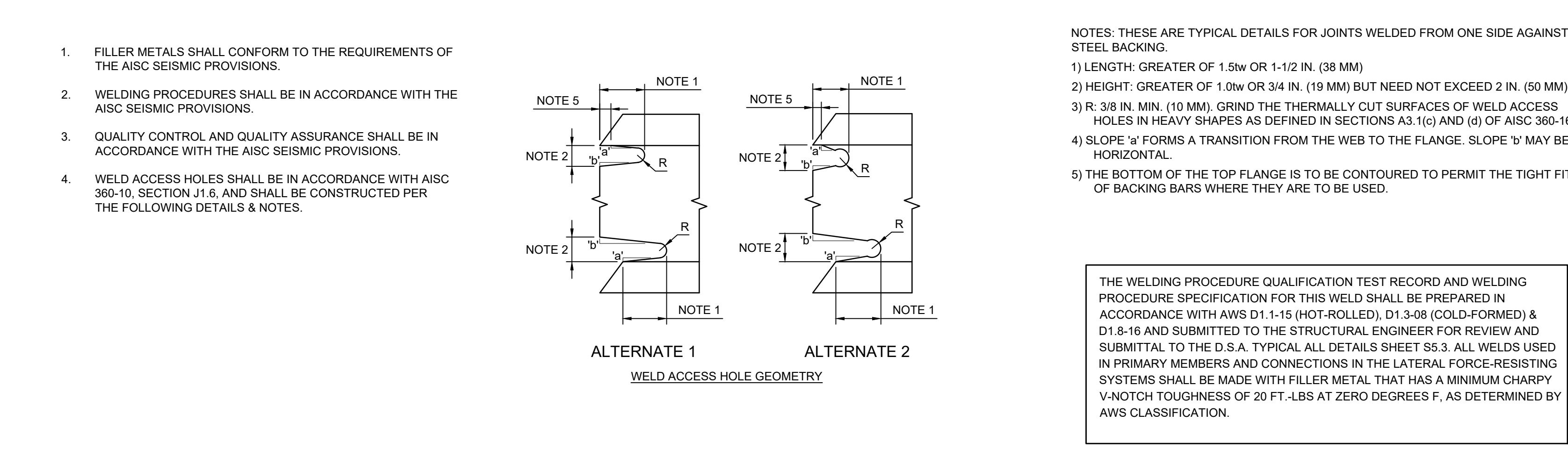
TYPICAL CONNECTION UPPER FLOOR COLUMN TO GROUND FLOOR COLUMN @ MODLINE SCALE: 1 1/2"=1'-0" 4



UPPER FLOOR ROOF MODLINE SCALE: 1 1/2"=1'-0" 5



UPPER FLOOR ROOF MODLINE (ALTERNATE) SCALE: 1 1/2"=1'-0" 6



REQUIREMENTS FOR MOMENT CONNECTIONS SCALE: NOT TO SCALE 7

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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD ON PC

**LICENCED ARCHITECT**  
PATRICIA CANNON  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

**REGISTERED PROFESSIONAL ENGINEER**  
MANNY D. FRICCI  
No. S3380  
STRUCTURAL  
STATE OF CALIFORNIA

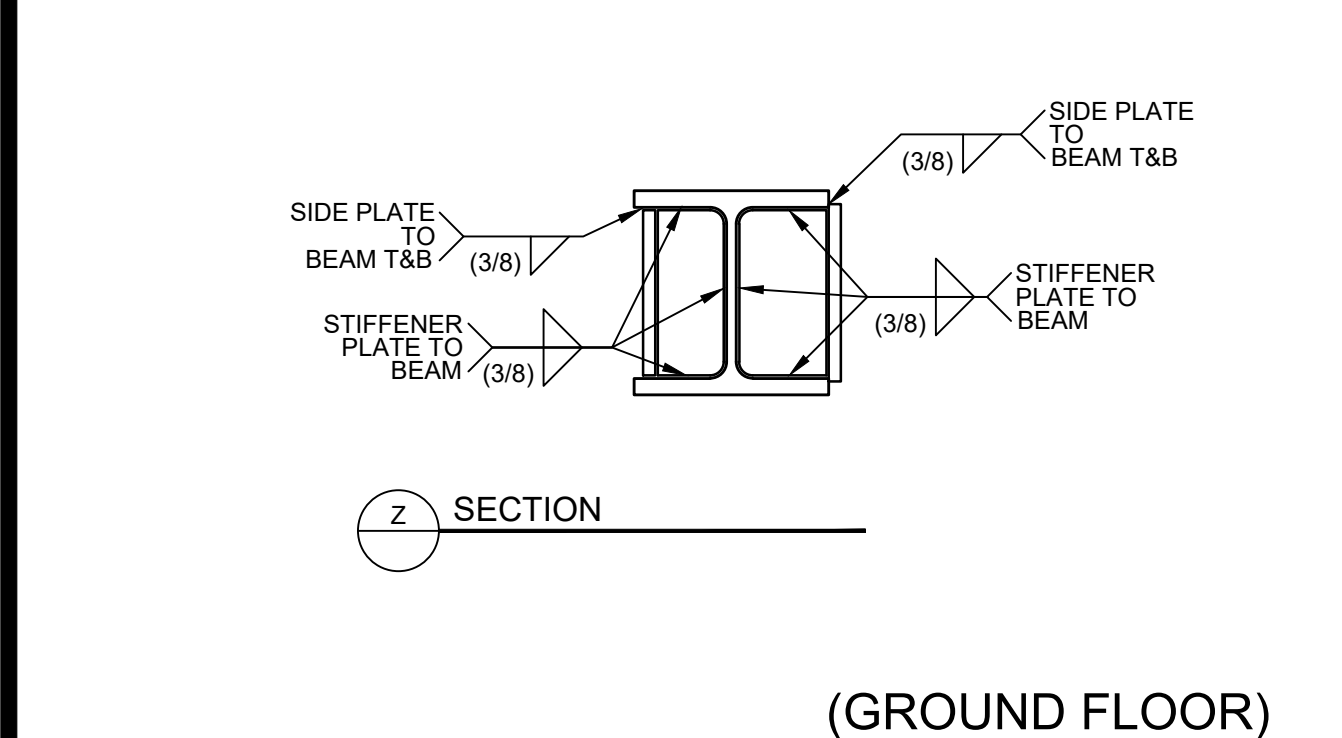
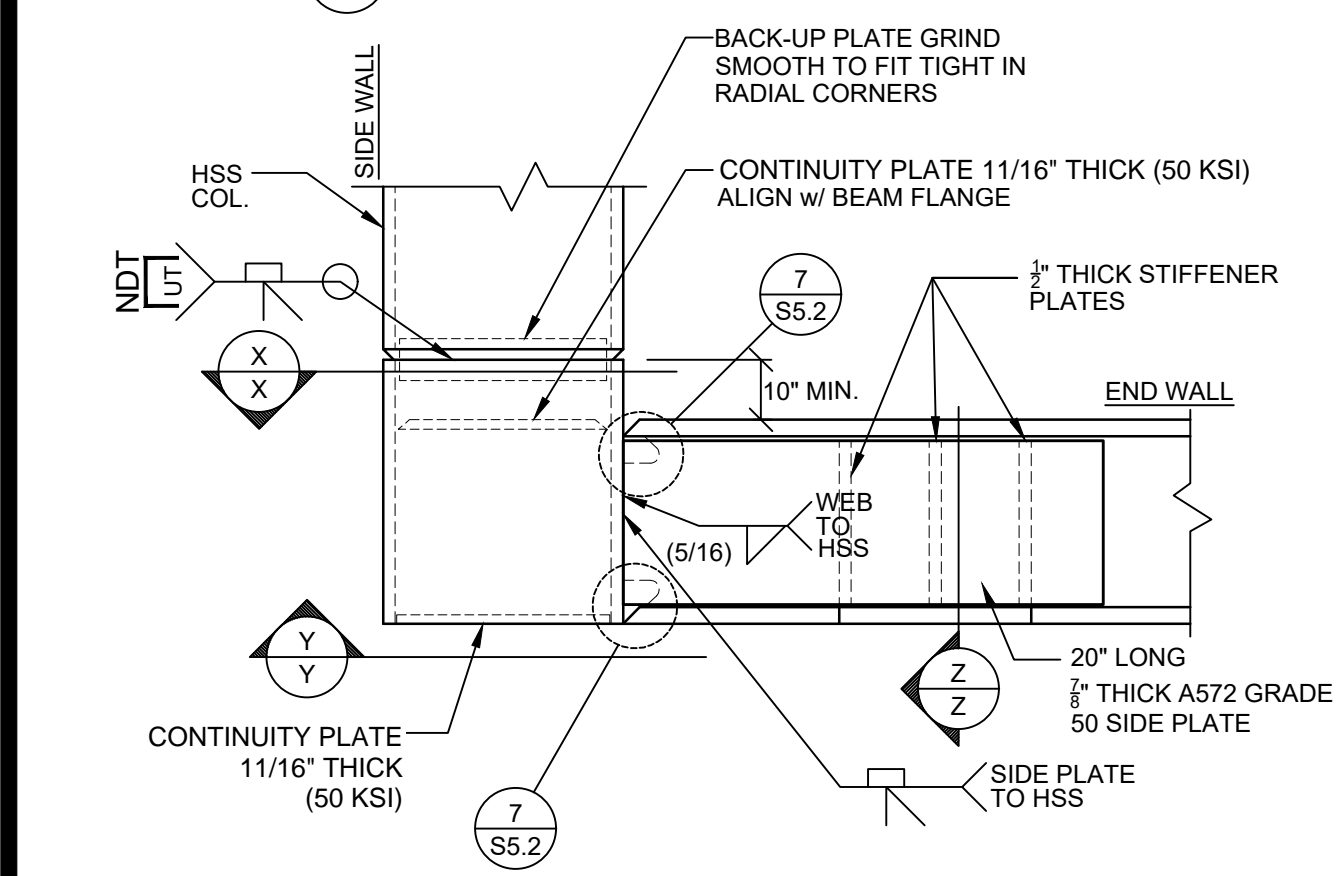
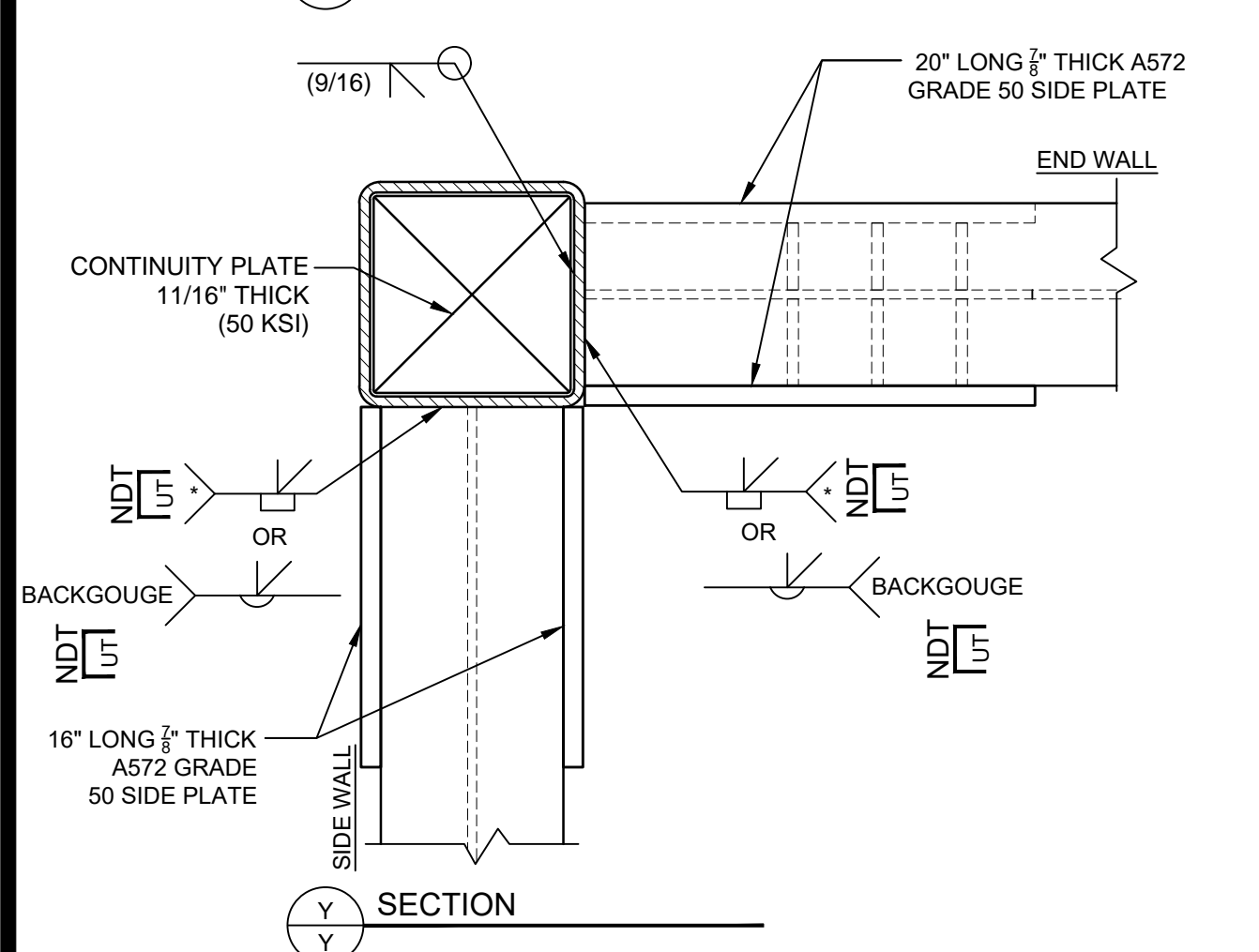
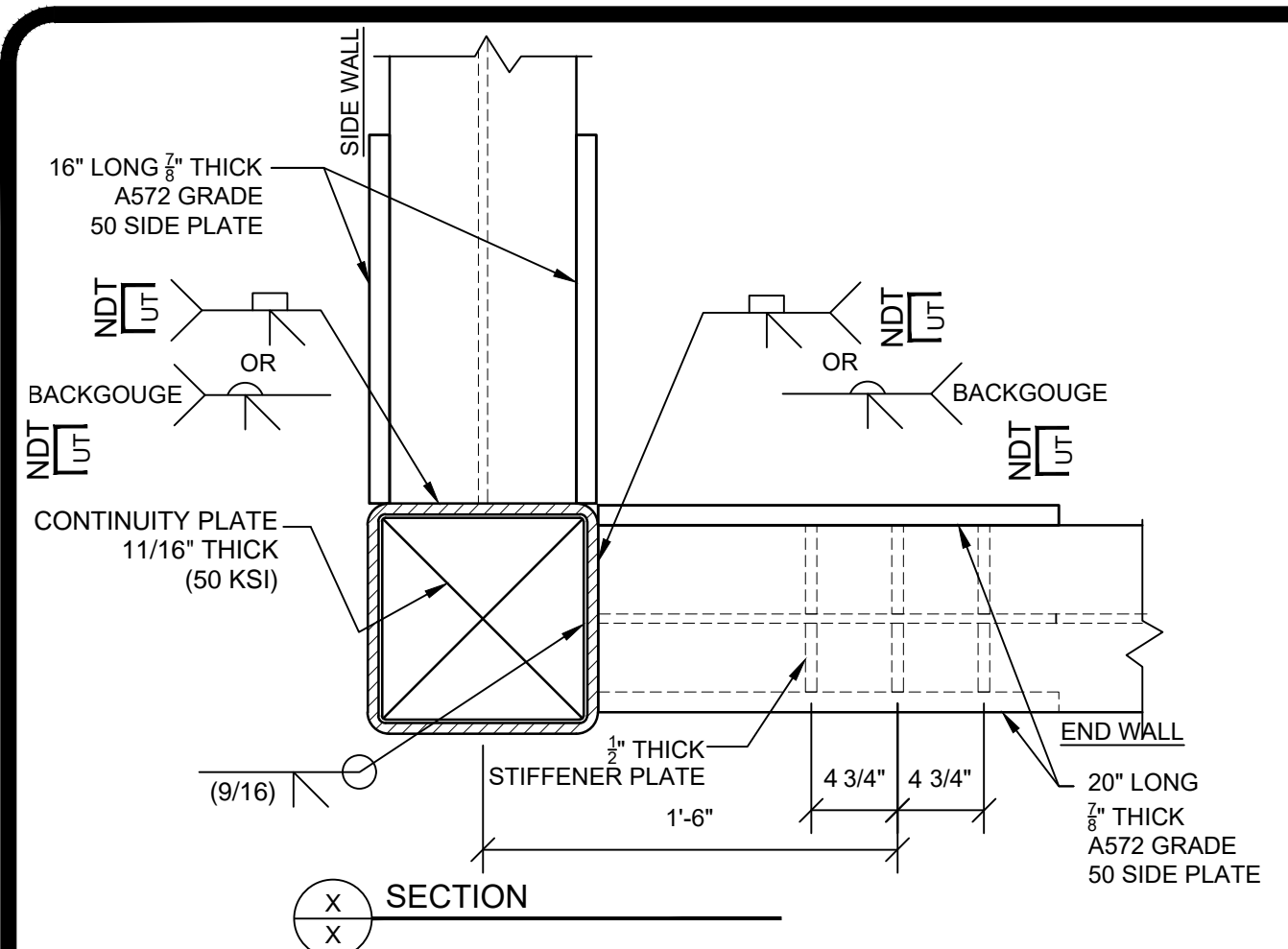
09/20/2021  
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REVISIONS


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20  
SHEET TITLE: **MOMENT FRAME CONNECTION DETAILS**  
SHEET NUMBER: **S5.2**

BID SET 10/01/2021

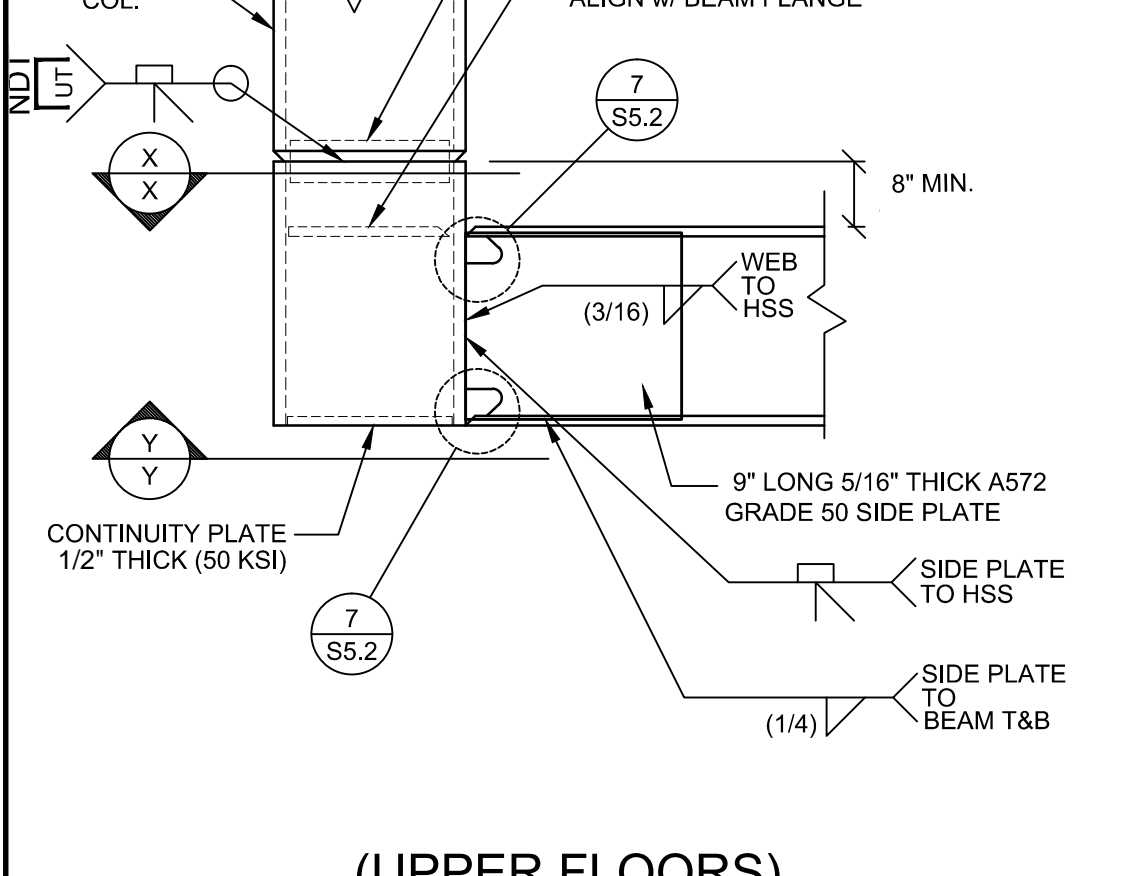
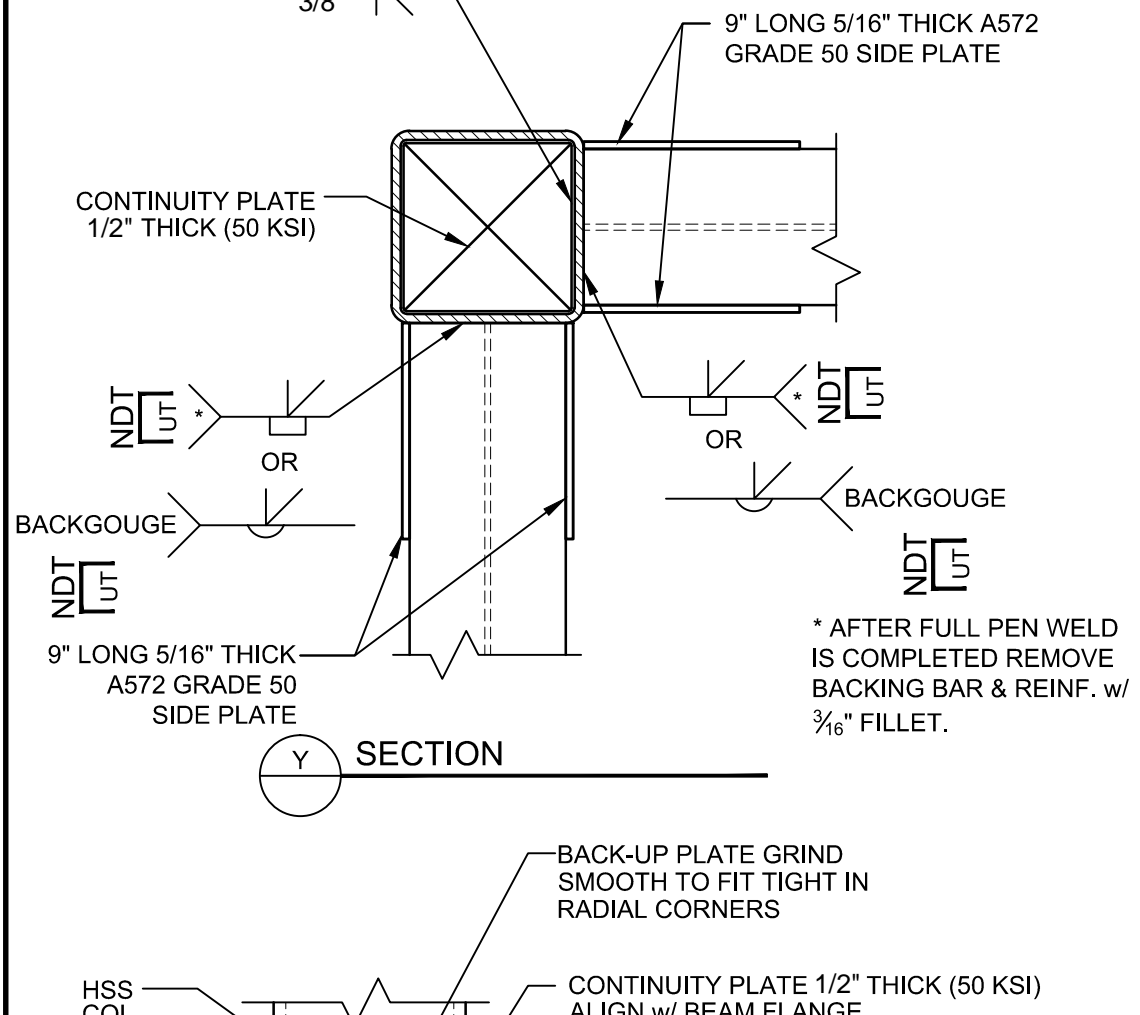
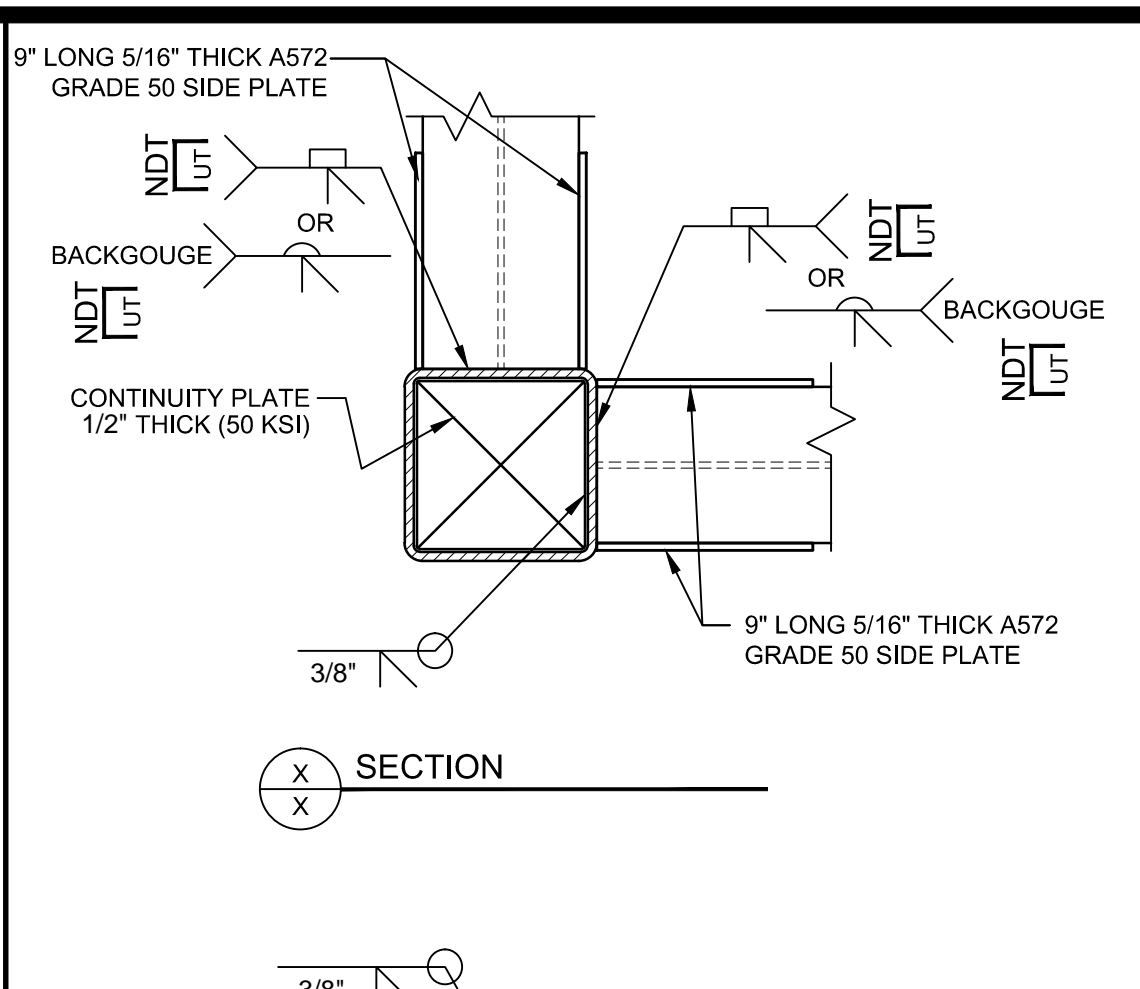


COLUMN TO FLOOR BEAM CONN. SCALE: 1 1/2"=1'-0" 1

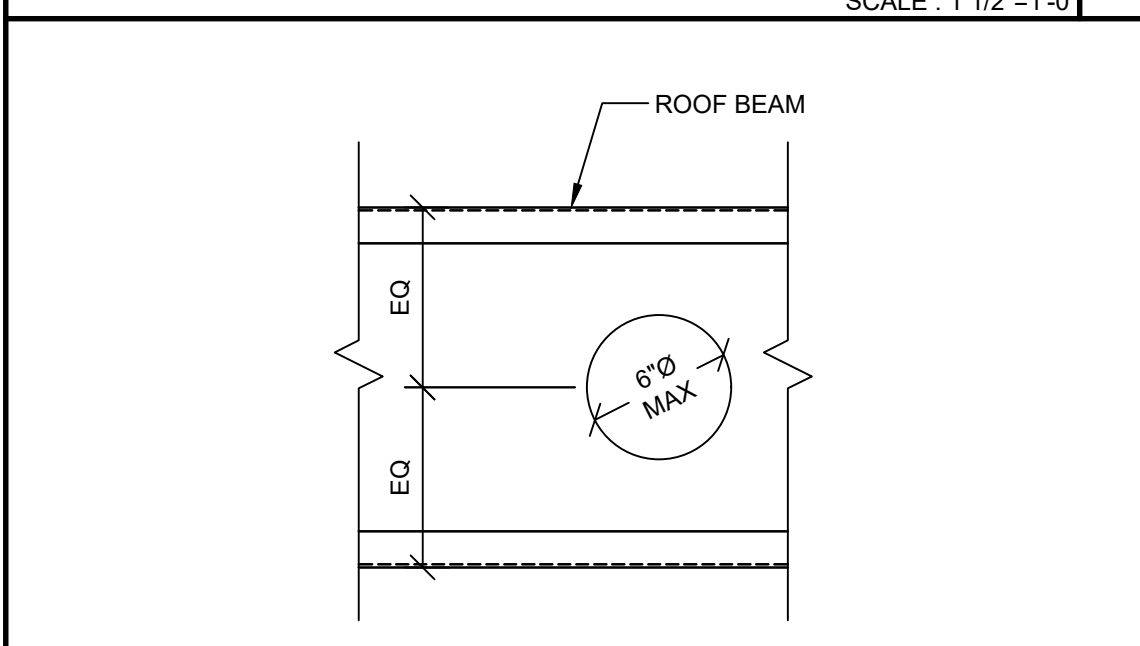
NON-DESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION GROVE WELDS AT THE MOMENT-RESISTING BEAM-TO-COLUMN CONNECTIONS SHALL COMPLY WITH AISC 341-10 CHAPTER J PER CBC 1705A.2.1.

1. WELDS SUBJECT TO THE REQUIREMENTS OF NON-DESTRUCTIVE TESTING ARE NOTED ON THIS DRAWINGS WITH THE SYMBOL
2. ULTRASONIC TESTING (UT) SHALL BE PERFORMED ON 100% OF ALL WELDS DENOTED WELDS WITH THE SYMBOL
3. MAGNETIC PARTICLE TESTING (MT) SHALL BE PERFORMED ON 25% OF ALL WELDS REQUIRING NON-DESTRUCTIVE TESTING WHETHER OR NOT (UT) IS REQUIRED.
4. ULTRASONIC TESTING (UT) IS ONLY REQUIRED WHERE THE THICKNESS OF THE COLUMN IS 5/16" OR GREATER. UT IS NOT REQUIRED WHERE THE COLUMN THICKNESS IS LESS THAN 5/16".
5. ULTRASONIC TESTING (UT) IS NOT REQUIRED ON WELDS FROM STRUCTURAL STEEL CHANNEL BEAM FLANGES TO COLUMNS AS UT TESTING IS NOT APPROPRIATE FOR SECTIONS WITH VARYING DEPTHS. MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.

NON-DESTRUCTIVE TESTING NOTES



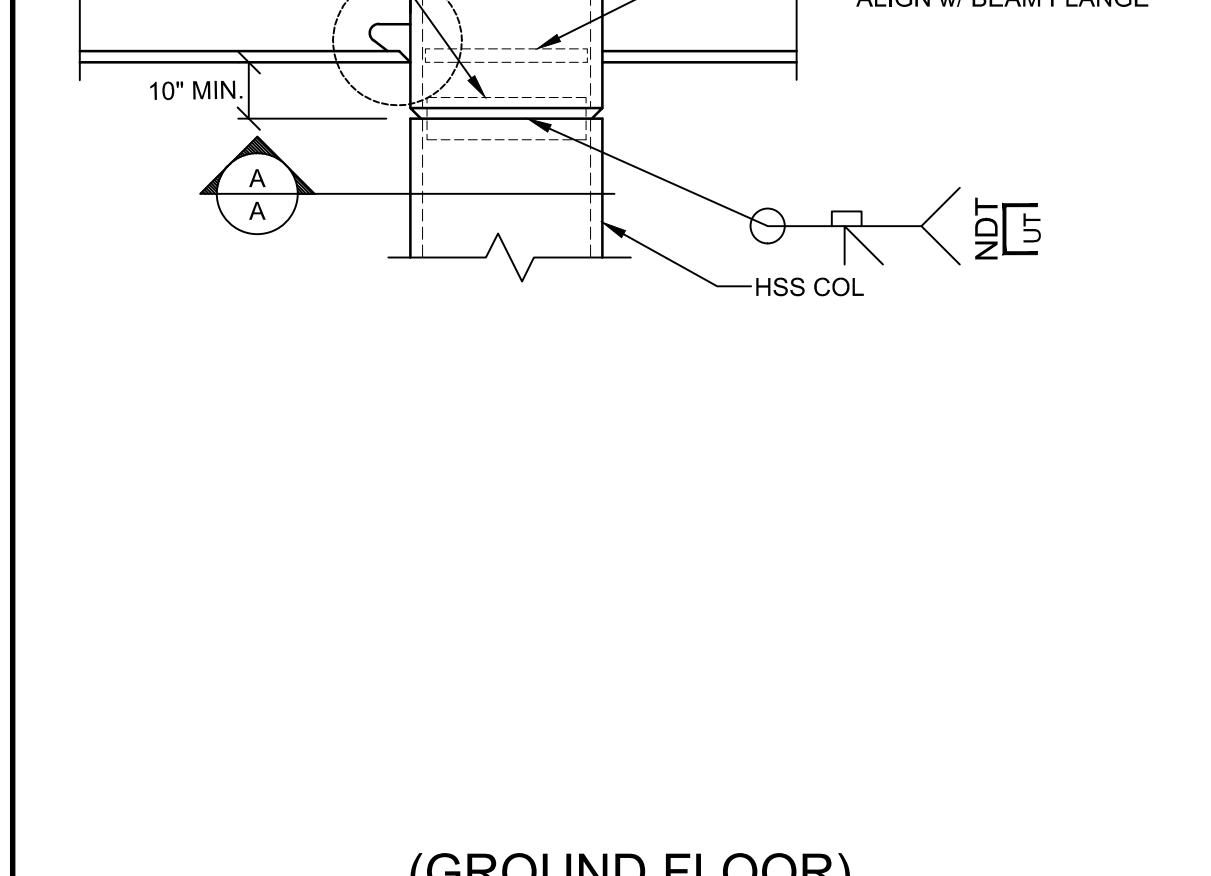
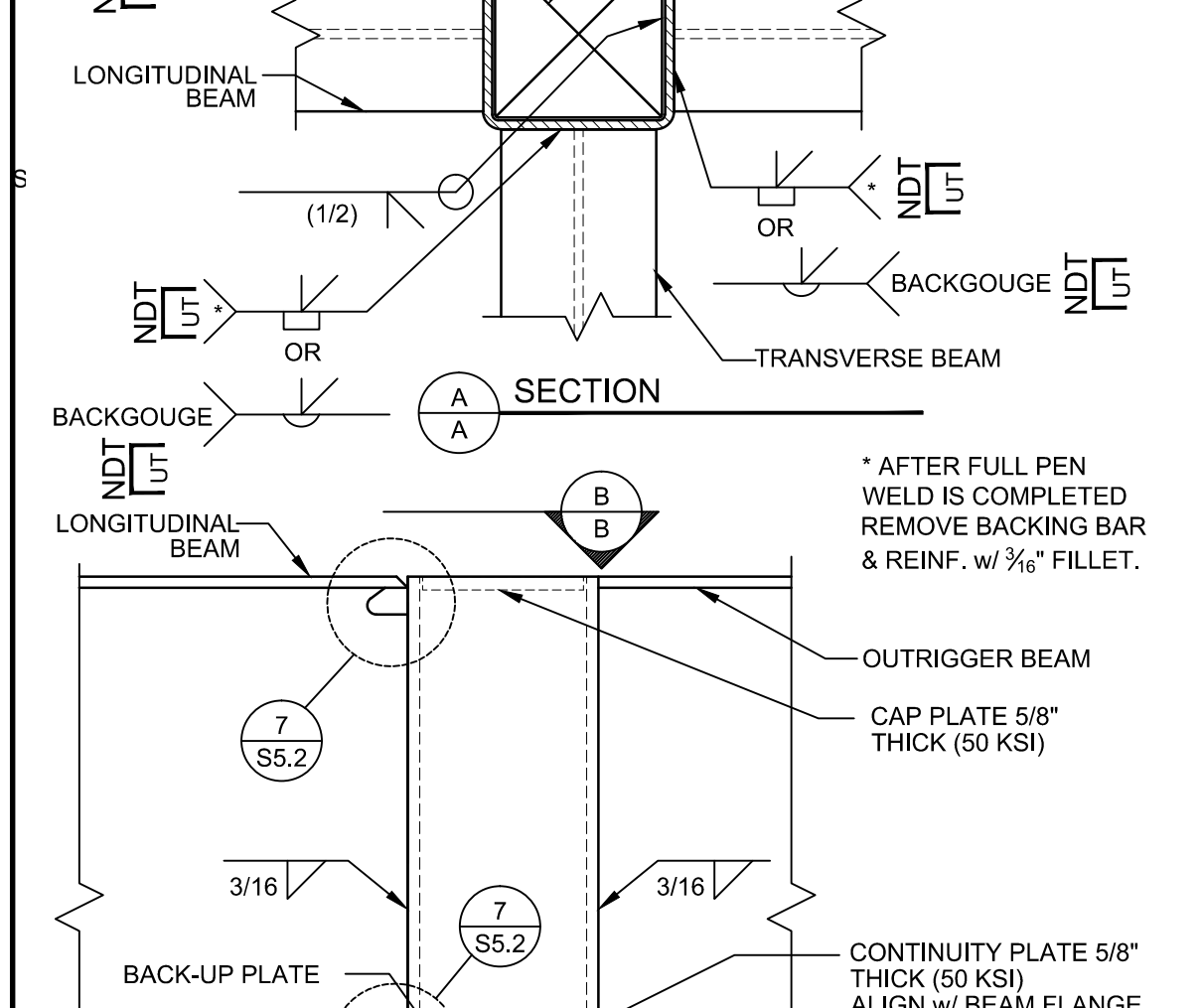
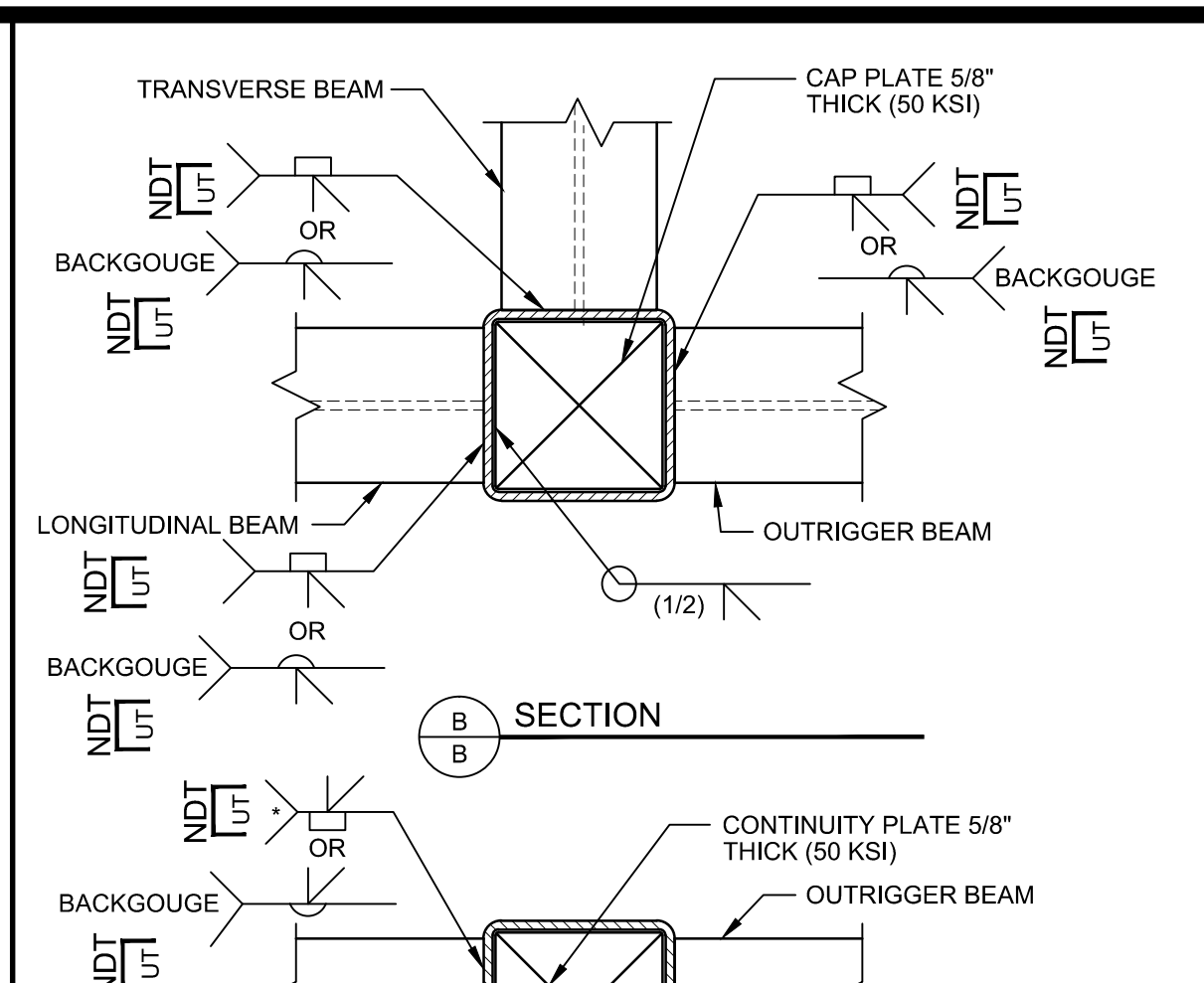
COLUMN TO FLOOR BEAM CONN. SCALE: 1 1/2"=1'-0" 1A



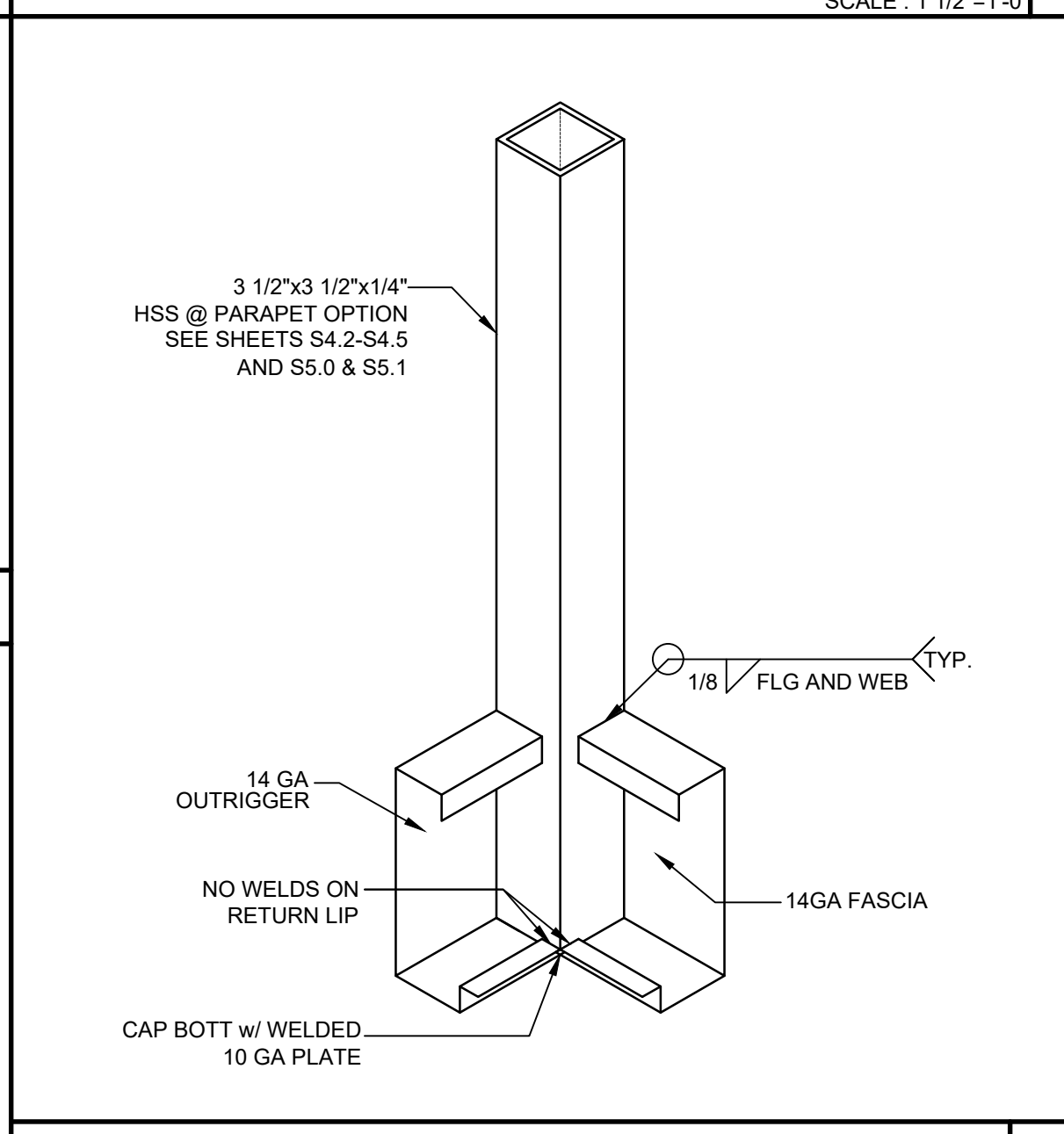
OPENING @ BEAM SCALE: 1 1/2"=1'-0" 7

NON-DESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION GROVE WELDS AT THE MOMENT-RESISTING BEAM-TO-COLUMN CONNECTIONS SHALL COMPLY WITH AISC 341-10 CHAPTER J PER CBC 1705A.2.1.

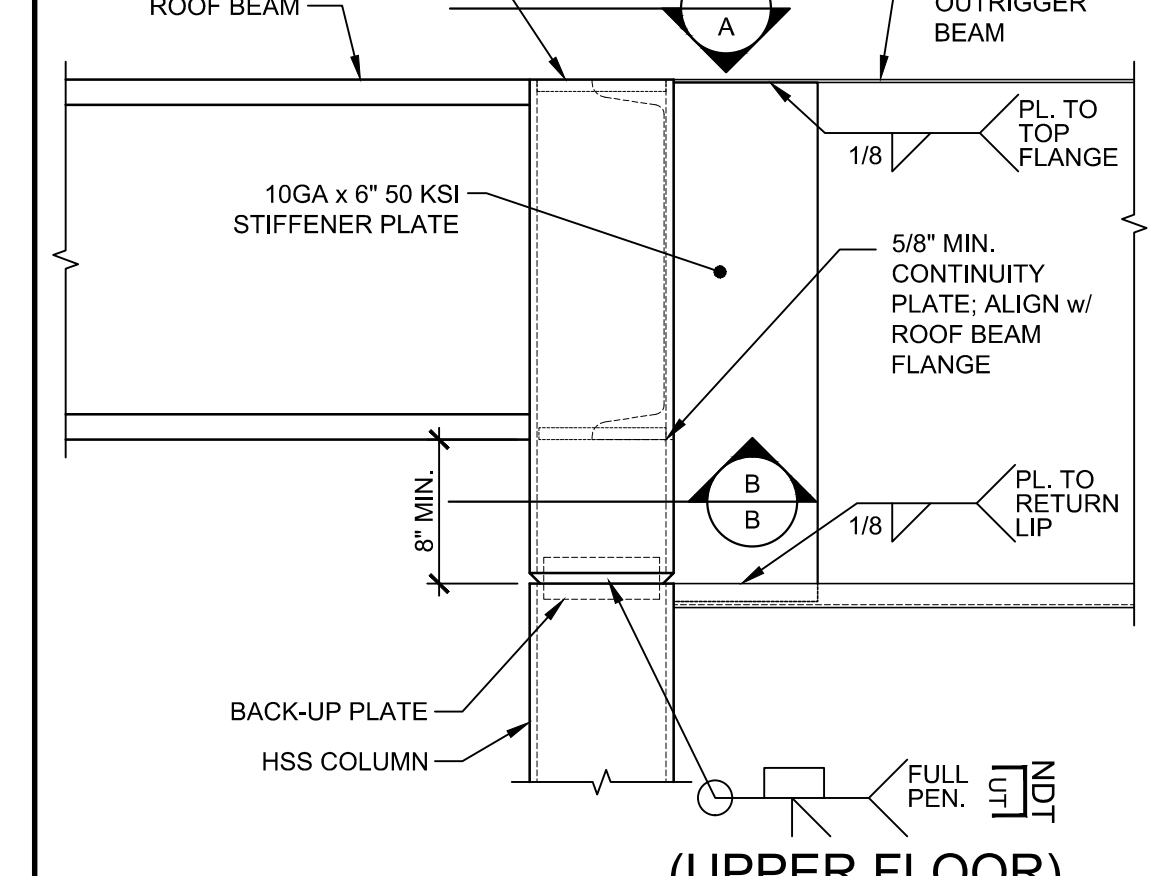
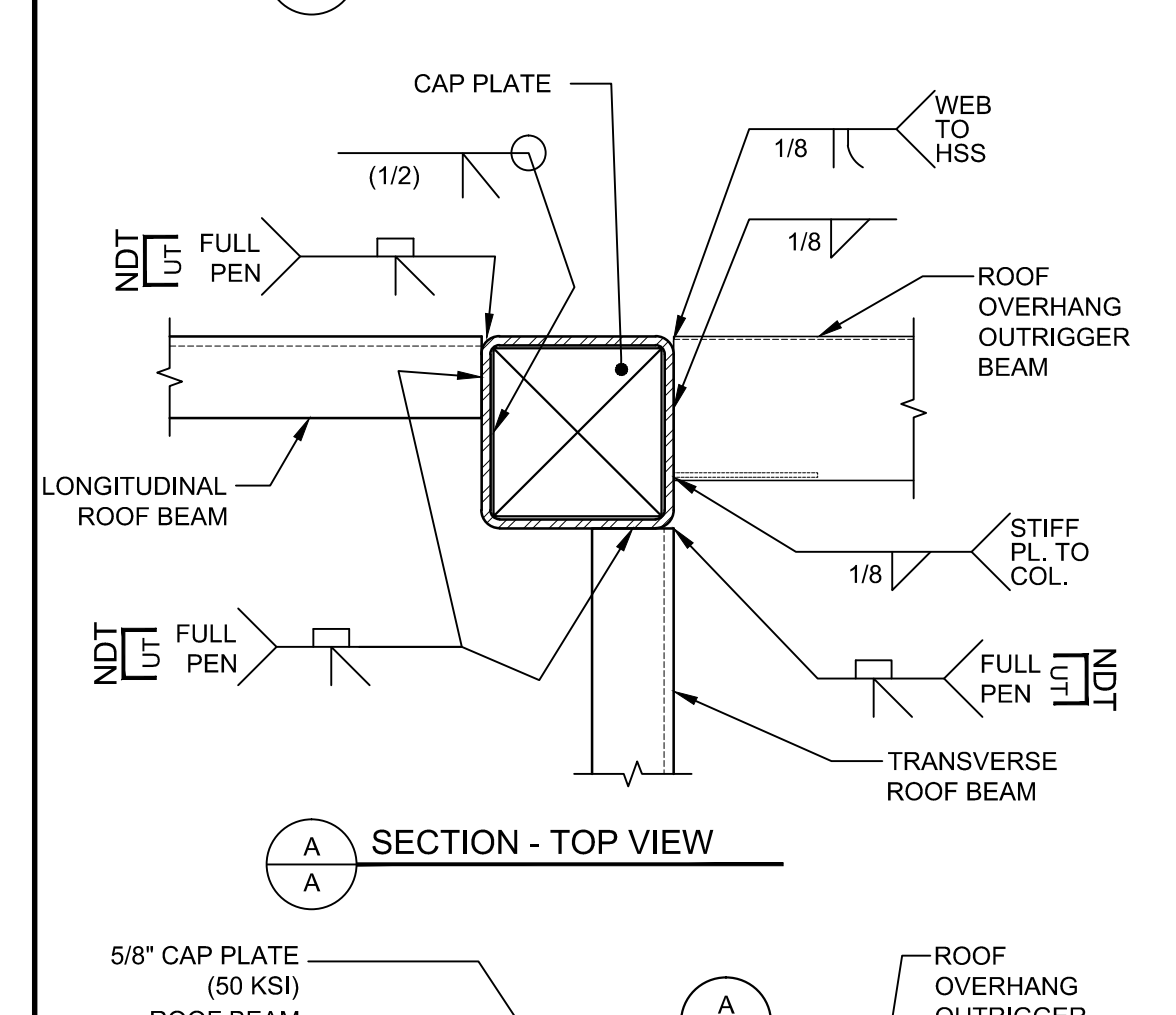
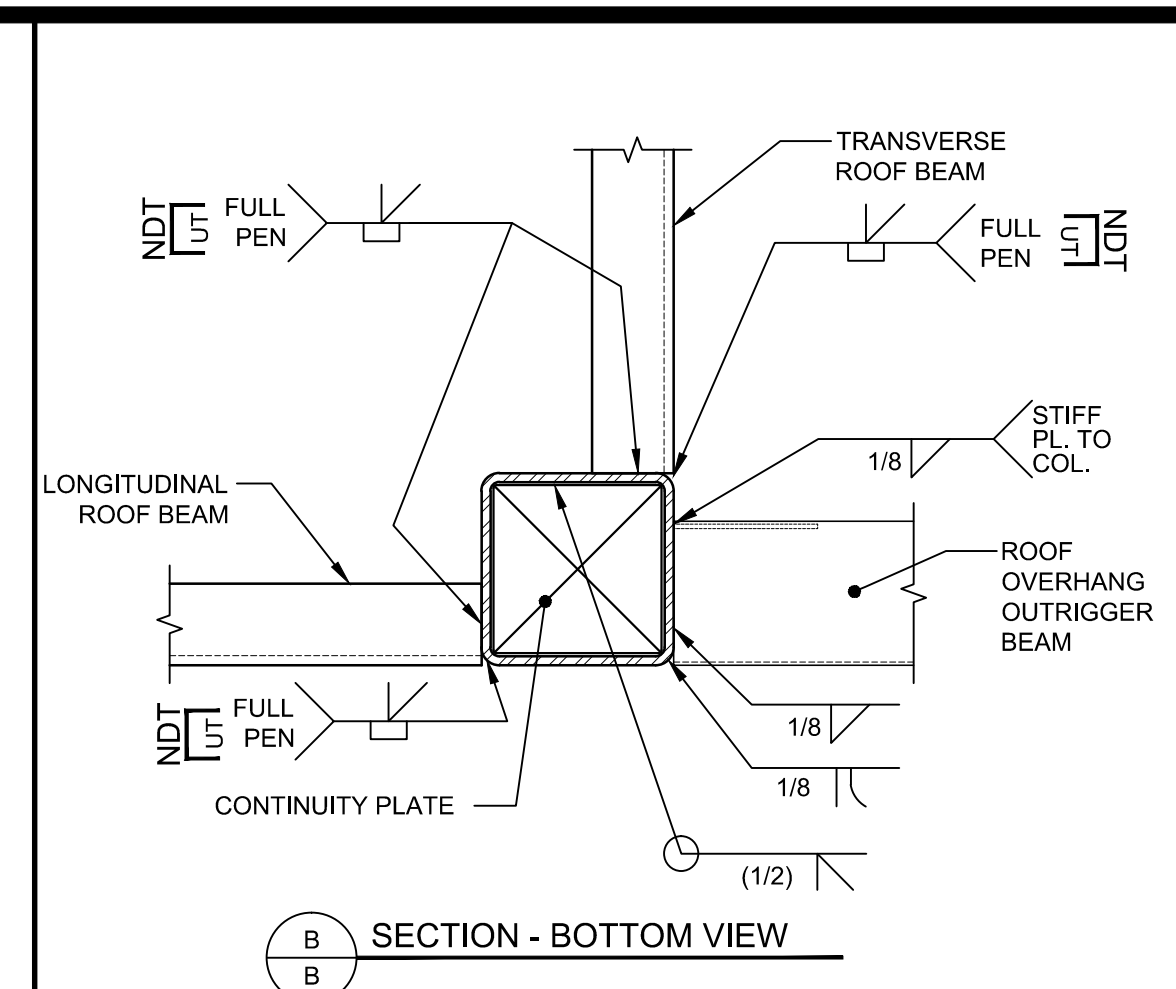
NON-DESTRUCTIVE TESTING NOTES



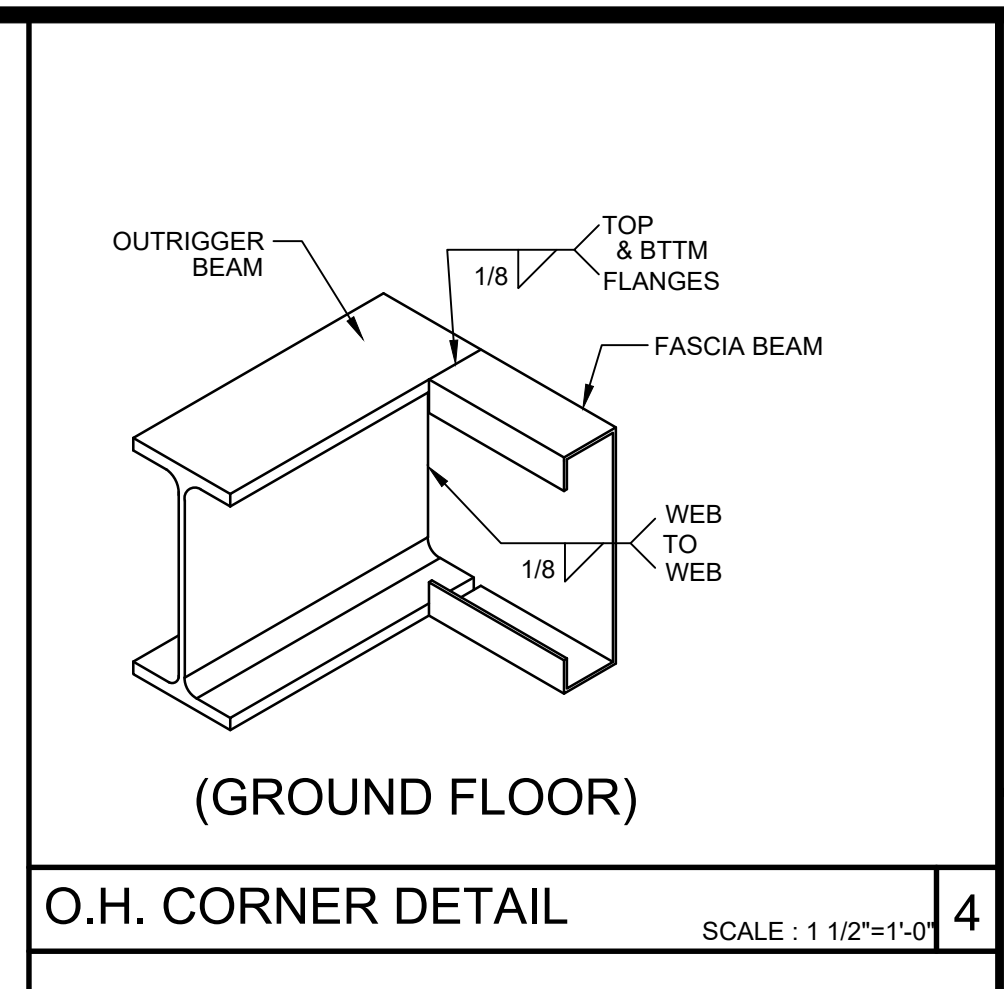
COLUMN TO ROOF BEAM CONN. SCALE: 1 1/2"=1'-0" 2



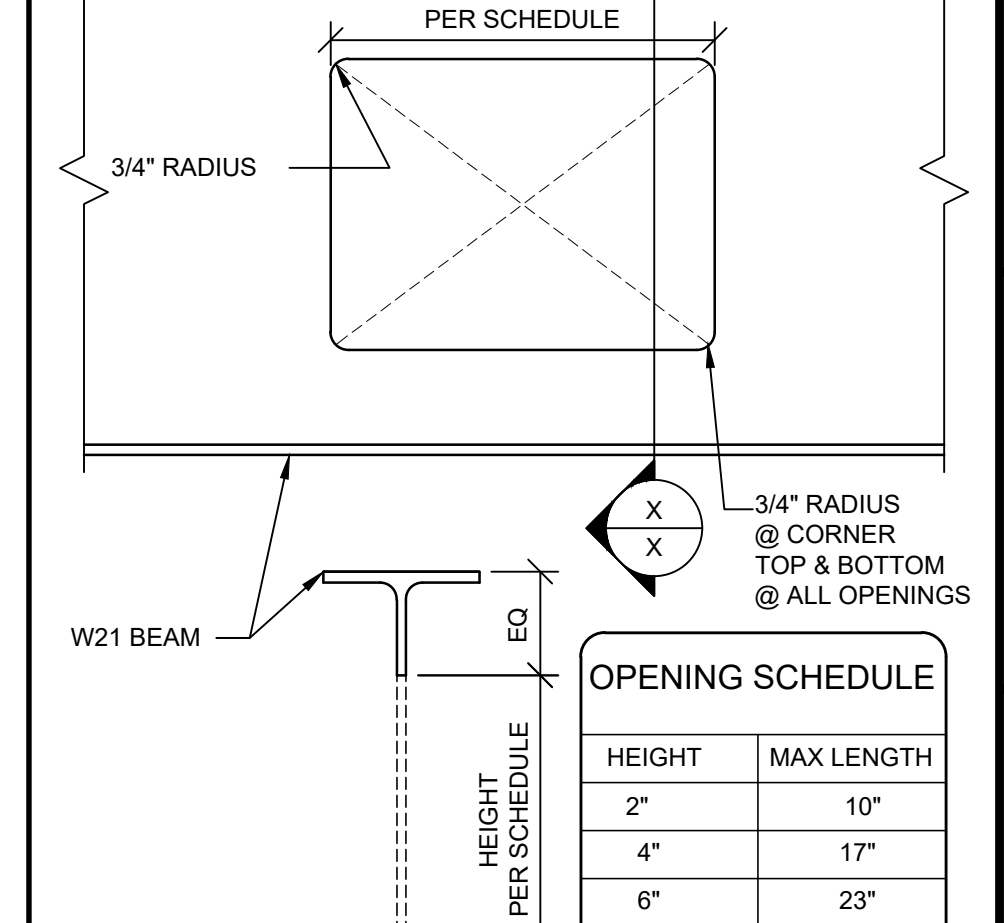
PARAPET COLUMN DETAIL AT OVERHANG CORNERS SCALE: NTS 8



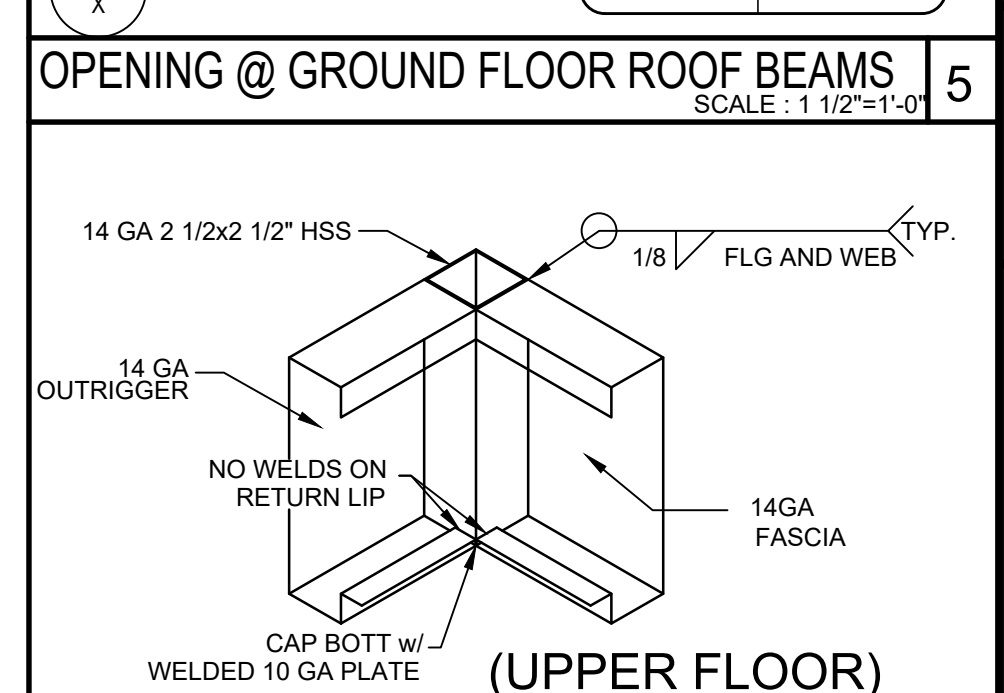
COLUMN TO ROOF BEAM CONN. SCALE: 1 1/2"=1'-0" 3



O.H. CORNER DETAIL SCALE: 1 1/2"=1'-0" 4



OPENING @ GROUND FLOOR ROOF BEAMS SCALE: 1 1/2"=1'-0" 5



OVERHANG CORNER DETAIL SCALE: 1 1/2"=1'-0" 6

NOTE:  
 1. FOR REQUIREMENT OF GENERAL WELDS & MOMENT CONNECTIONS SEE SHEET S5.2.  
 2. REFER TO NON-DESTRUCTIVE TESTING NOTES FOR NON-DESTRUCTIVE TESTING REQUIREMENTS.  
 3. WHERE BEAM BOTTOM FLANGES ATTACH TO COLUMNS w/ COMPLETE JOINT PENETRATION GROOVE WELDS & WELD BACKING IS USED AT THE BOTTOM SURFACE OF THE BEAM FLANGE, SUCH BACKING SHALL BE REMOVED & THE ROOT PASS BACK-GOUGED, REPAIRED & REINFORCED w/ A MINIMUM 3/8" FILLET WELD  
 4. CONTINUITY PLATES MUST BE WELDED IN A HORIZONTAL POSITION. GMAW/FACM WELD PROCESS

REVISIONS

NO.	DESCRIPTION

DRAWN BY: AH  
 SCALE: AS NOTED  
 DATE: 07/05/21  
 PROJECT NO: 1614-20

SHEET TITLE: MOMENT FRAME CONNECTION DETAILS

SHEET NUMBER: S5.3

GENERAL NOTES

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SET NAME: (2) 72'x40' 2 STORY CLASSROOM BUILDINGS

SITE SPECIFIC PROJECT NAME: GLENDALE USD GLENOAKS ELEMENTARY SCHOOL

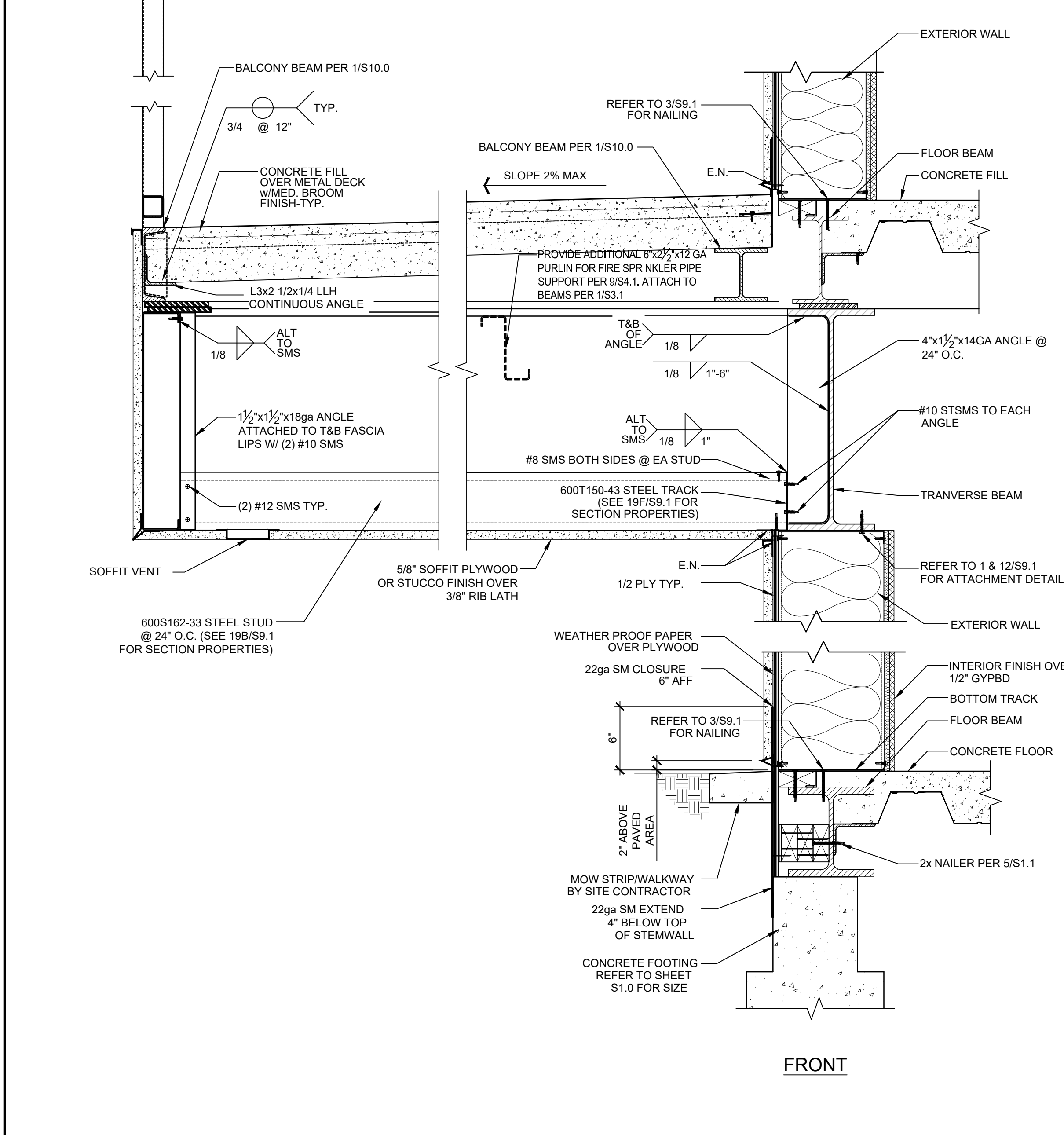
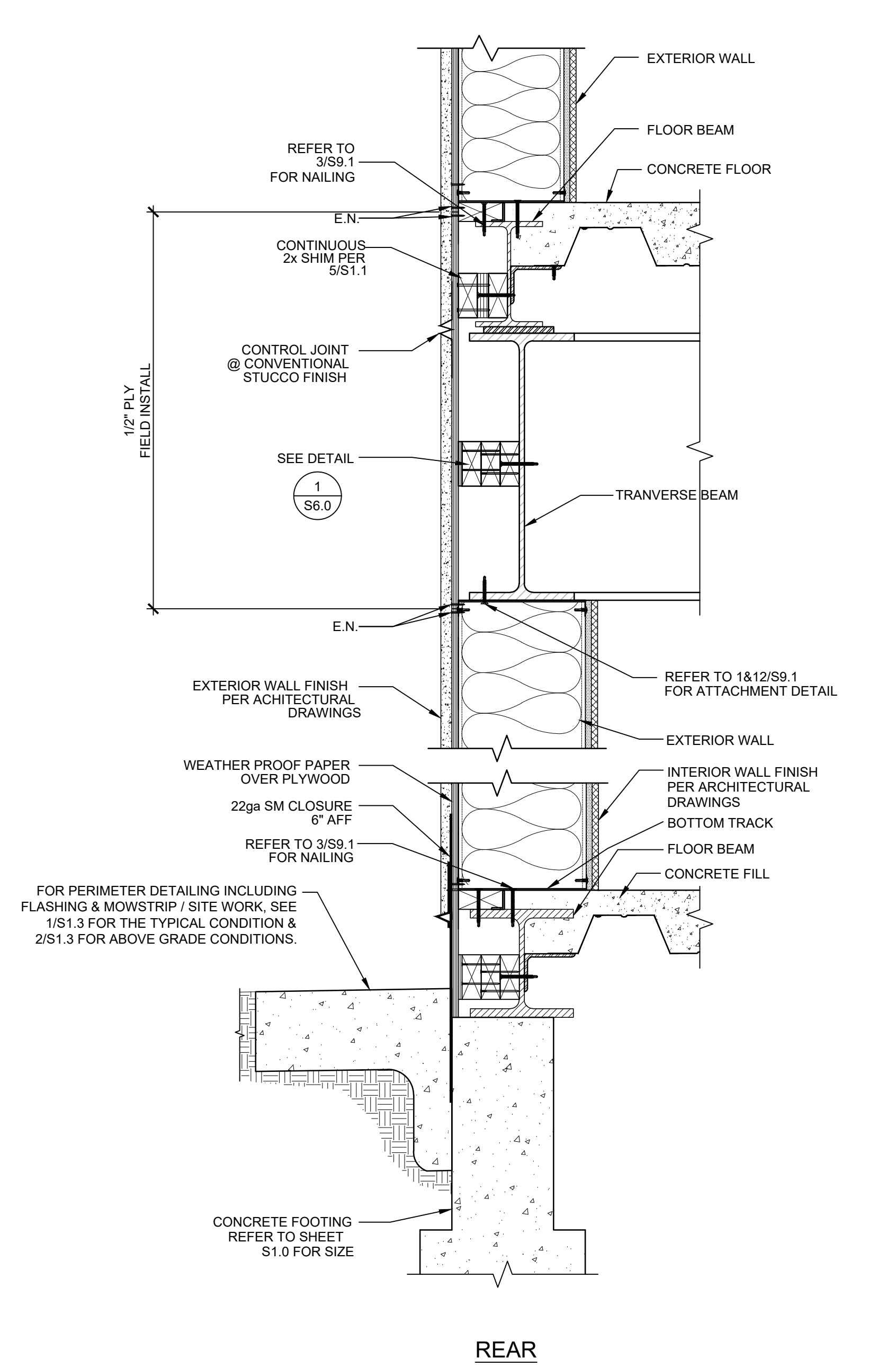
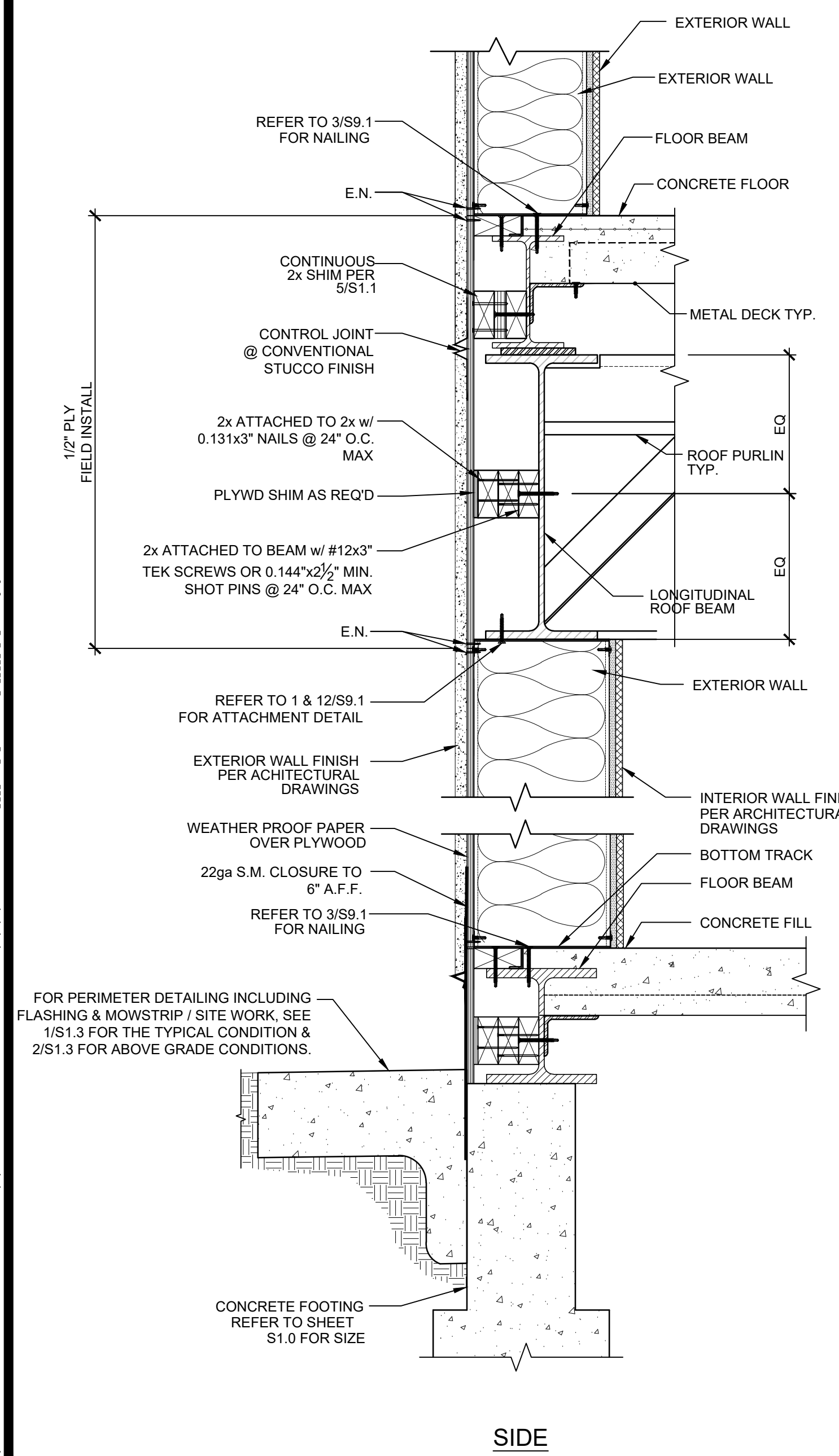
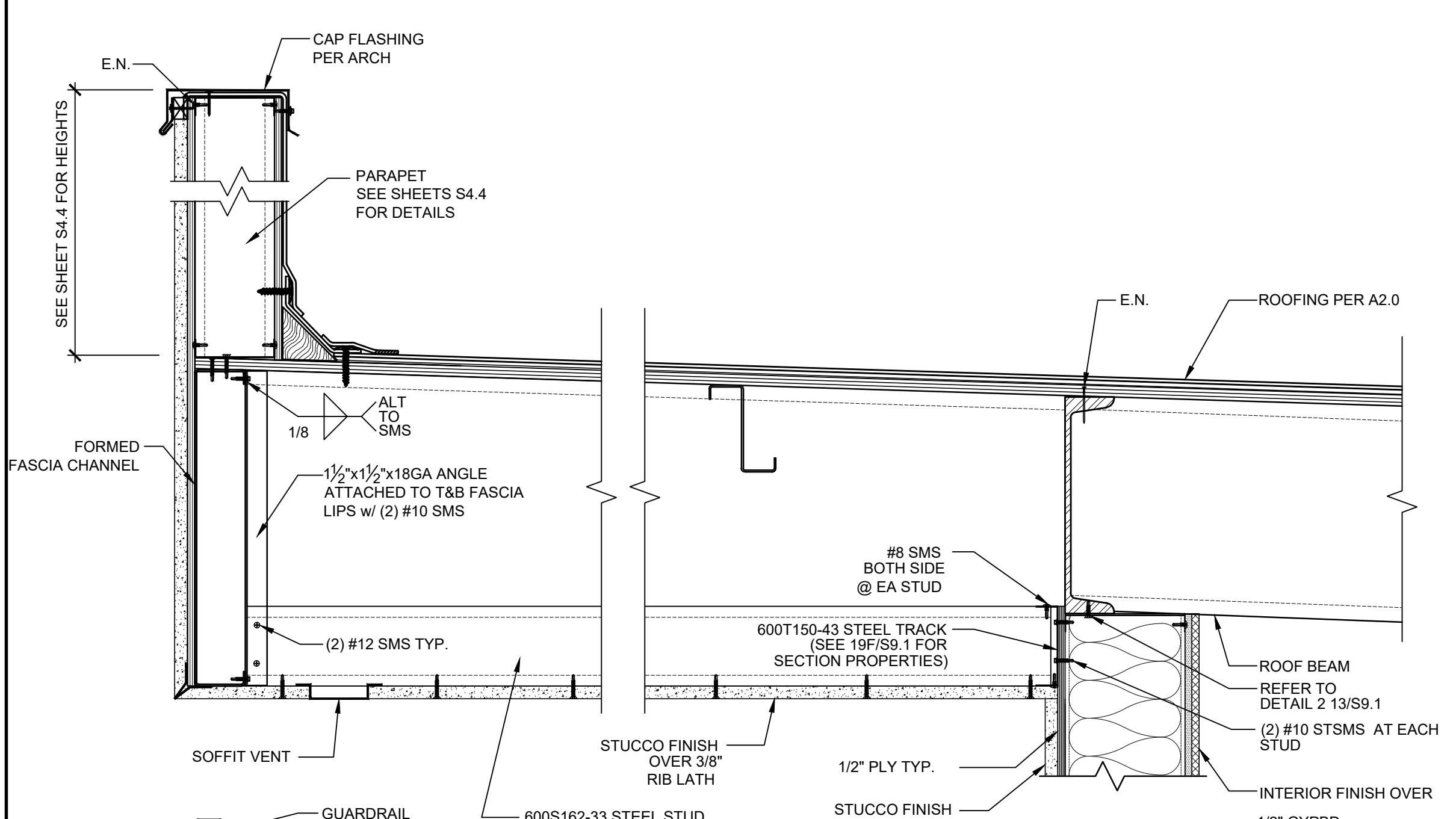
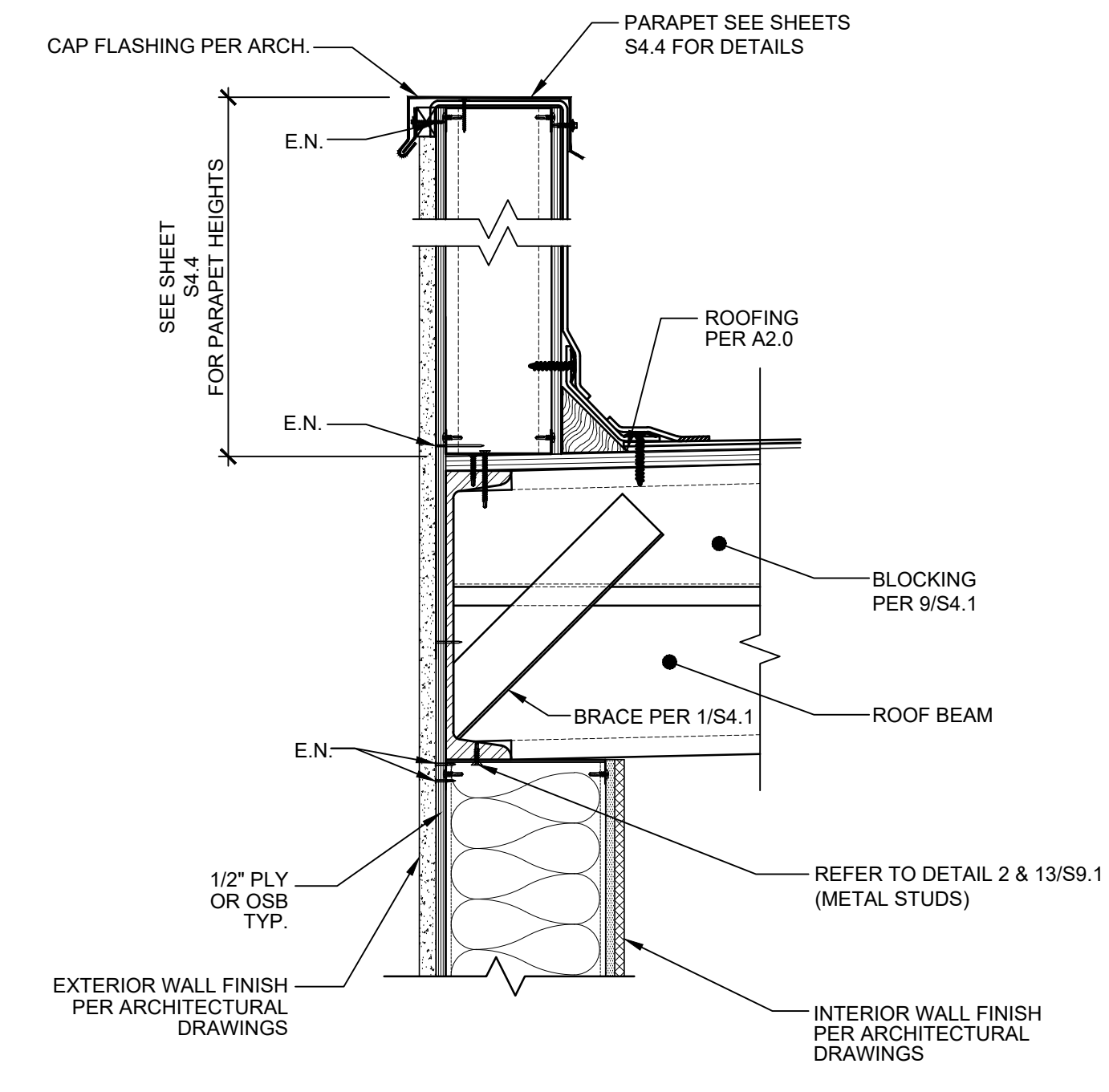
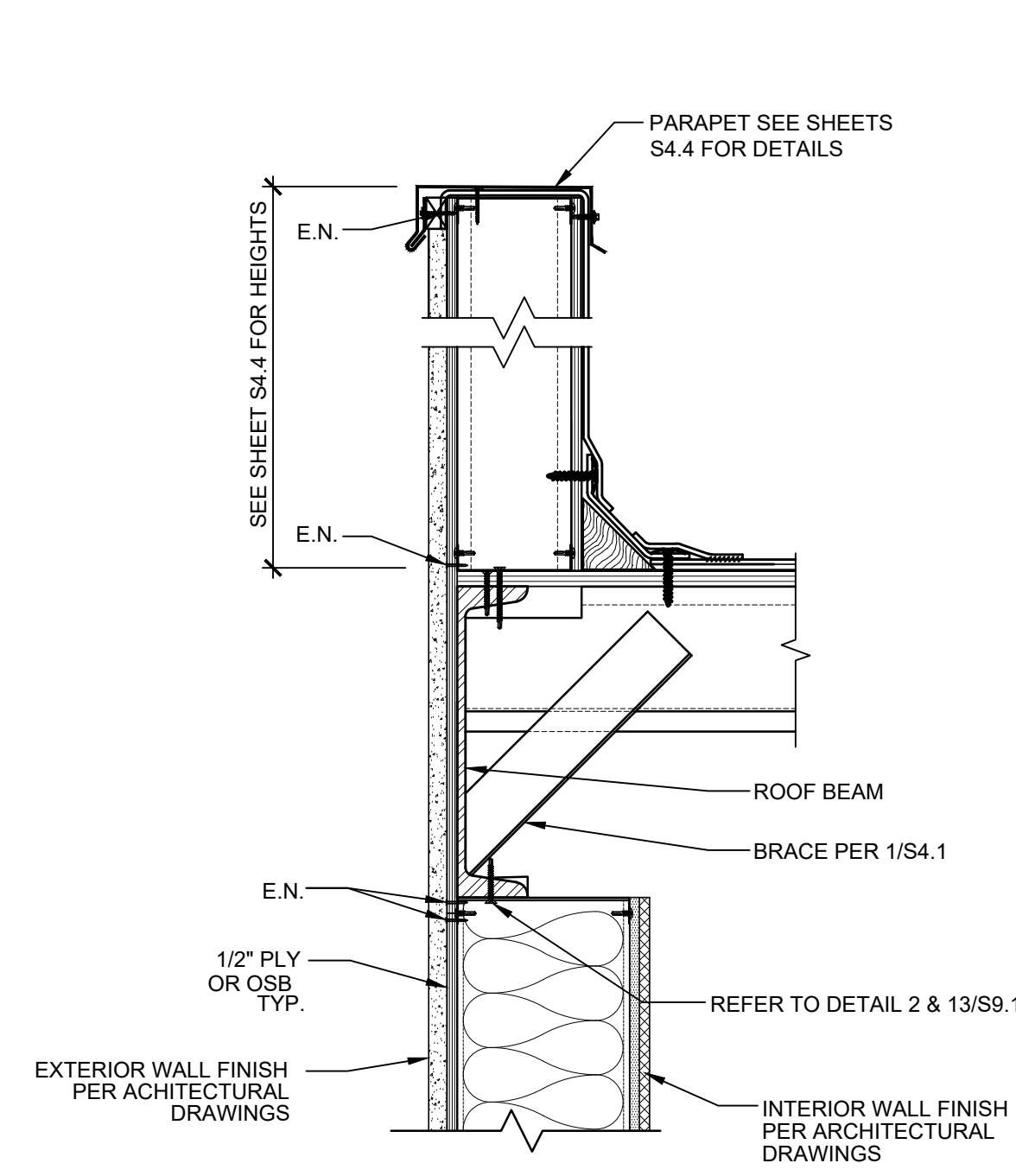
MANUFACTURER PROFESSIONAL OF RECORD ON PC: PATRICK CARROLL ARCHITECT

REGISTERED PROFESSIONAL ENGINEER: MANNY D. FRICCI, No. S3380, No. C12631, Ren. 3-31-23

DATE: 09/20/2021, RST#20203

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BID SET 10/01/2021



SIDE WALL SECTION

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

REAR END WALL SECTION

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

FRONT END WALL SECTION

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

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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENCED ARCHITECT  
PATRICK CANNON  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
MANNY D. FRICCI  
No. S3380  
STRUCTURAL  
STATE OF CALIFORNIA

09/20/2021  
RST#20203  
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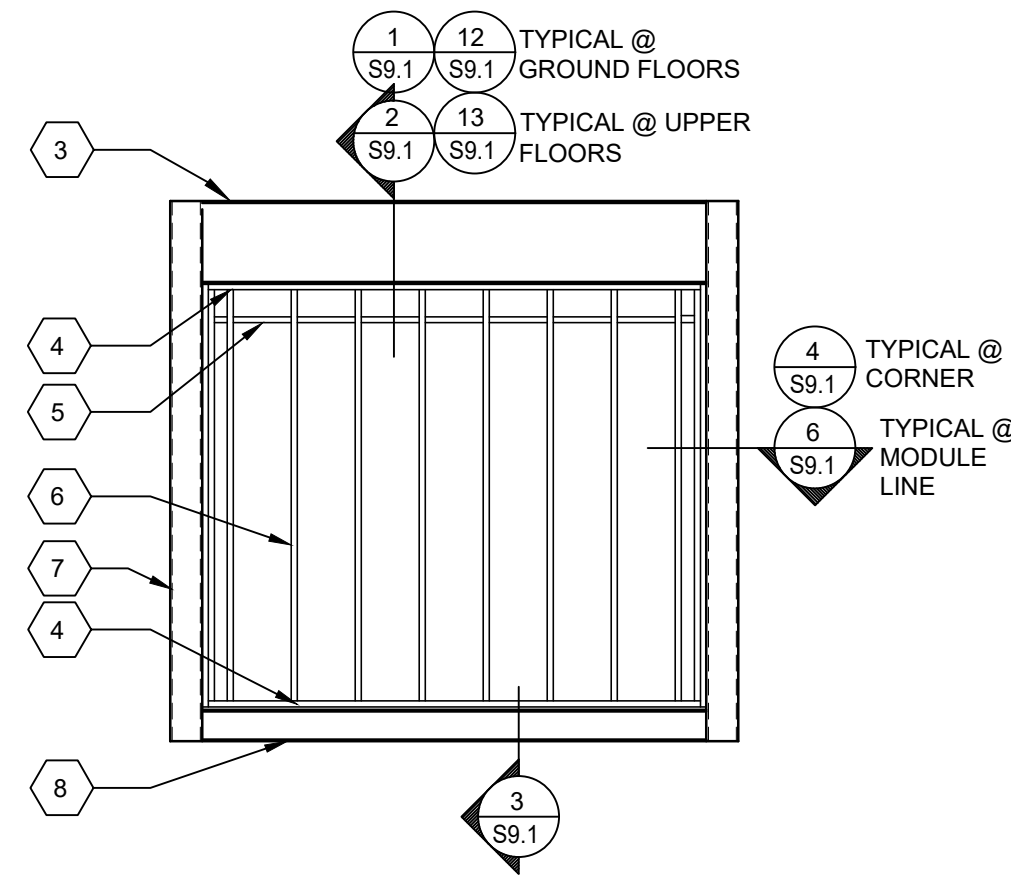
REVISIONS	

DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20

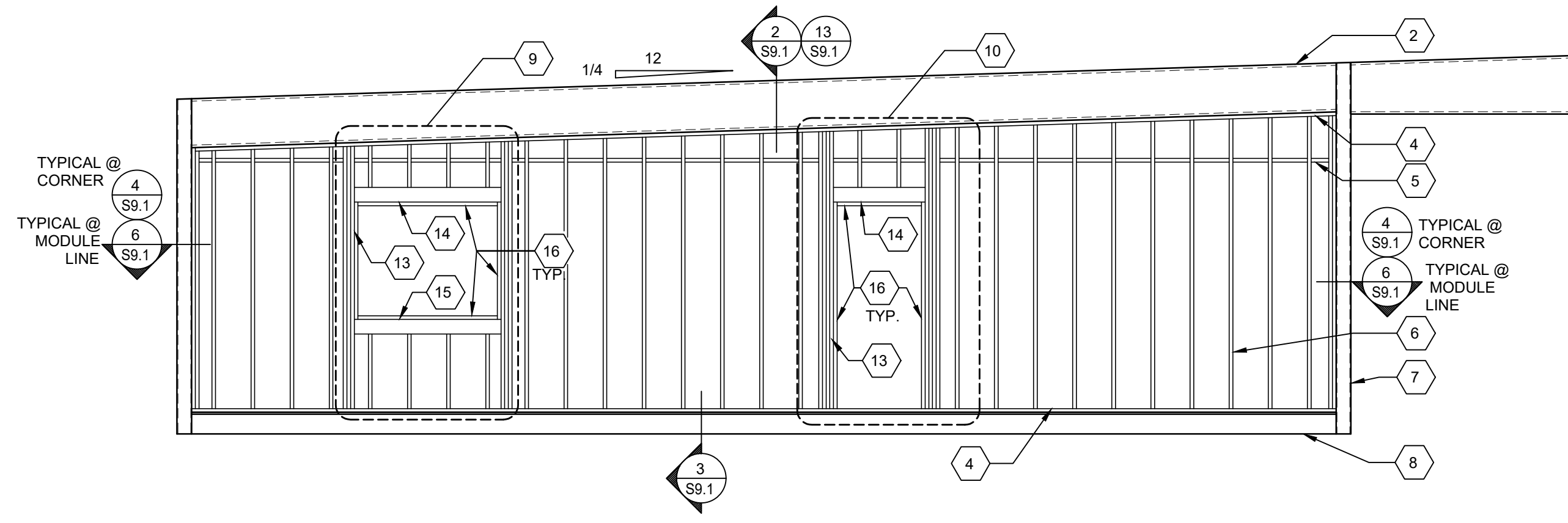
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**BUILDING SECTIONS**

SHEET NUMBER:  
**S6.0**

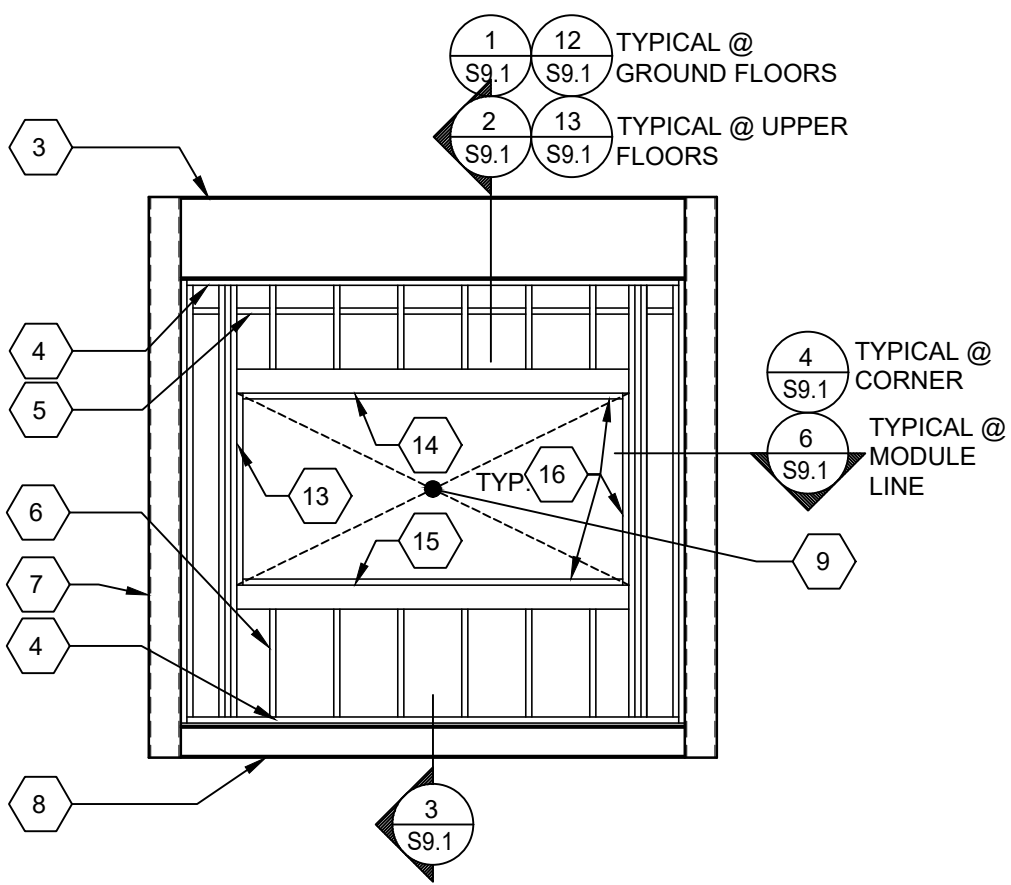
BID SET 10/01/2021



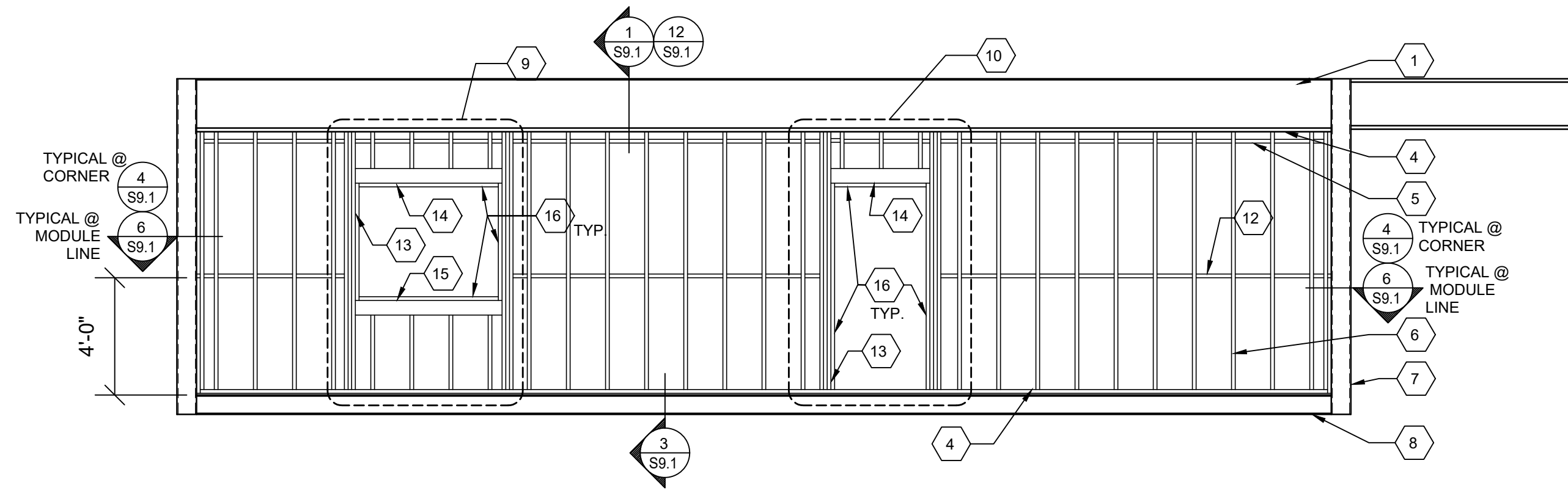
TYP. END WALL FRAMING w/ NO OPENINGS SCALE: 1/4"=1'-0" 1



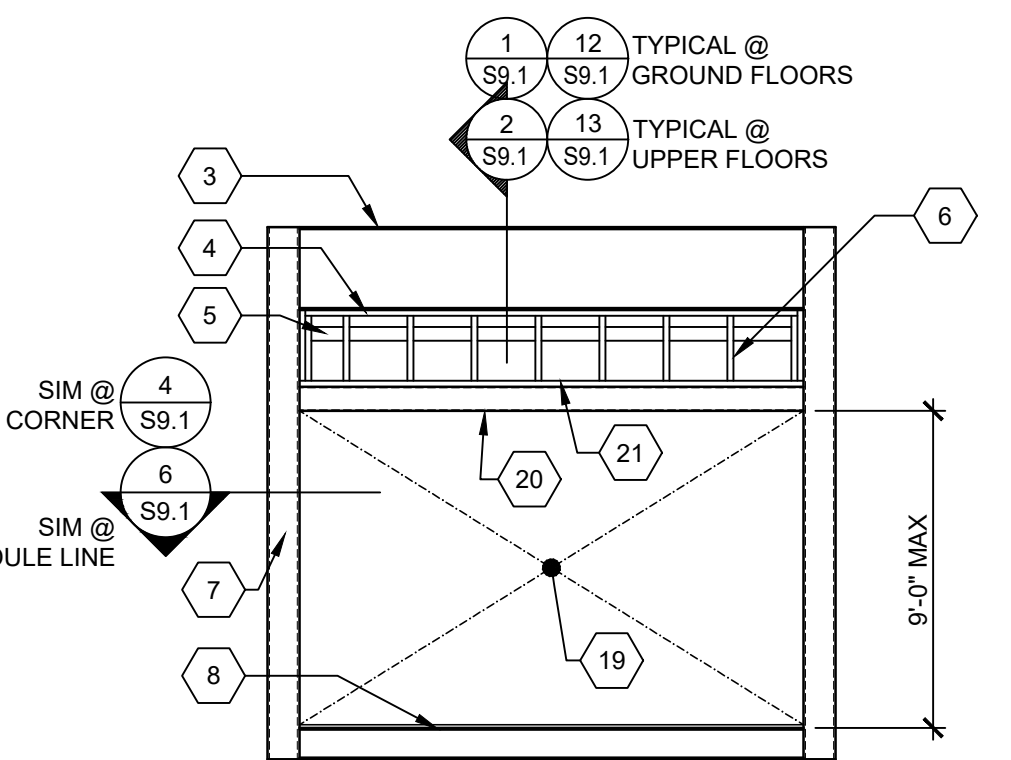
TYPICAL SIDE WALL FRAMING @ UPPER FLOOR SCALE: 1/4"=1'-0" 5



TYP. END WALL FRAMING w/ WINDOW SCALE: 1/4"=1'-0" 2



TYPICAL SIDE WALL FRAMING @ GROUND FLOOR SCALE: 1/4"=1'-0" 6

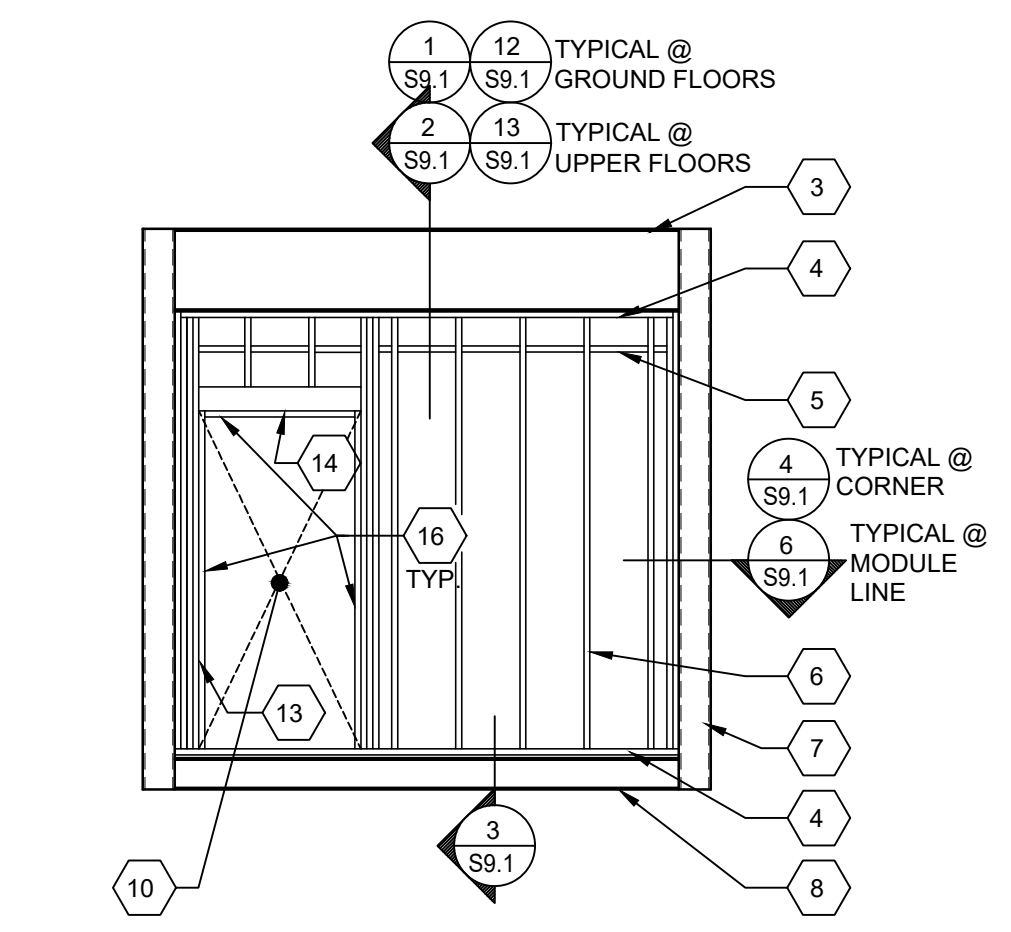


END WALL FRAMING w/ OPT. STOREFRONT SCALE: 1/4"=1'-0" 3

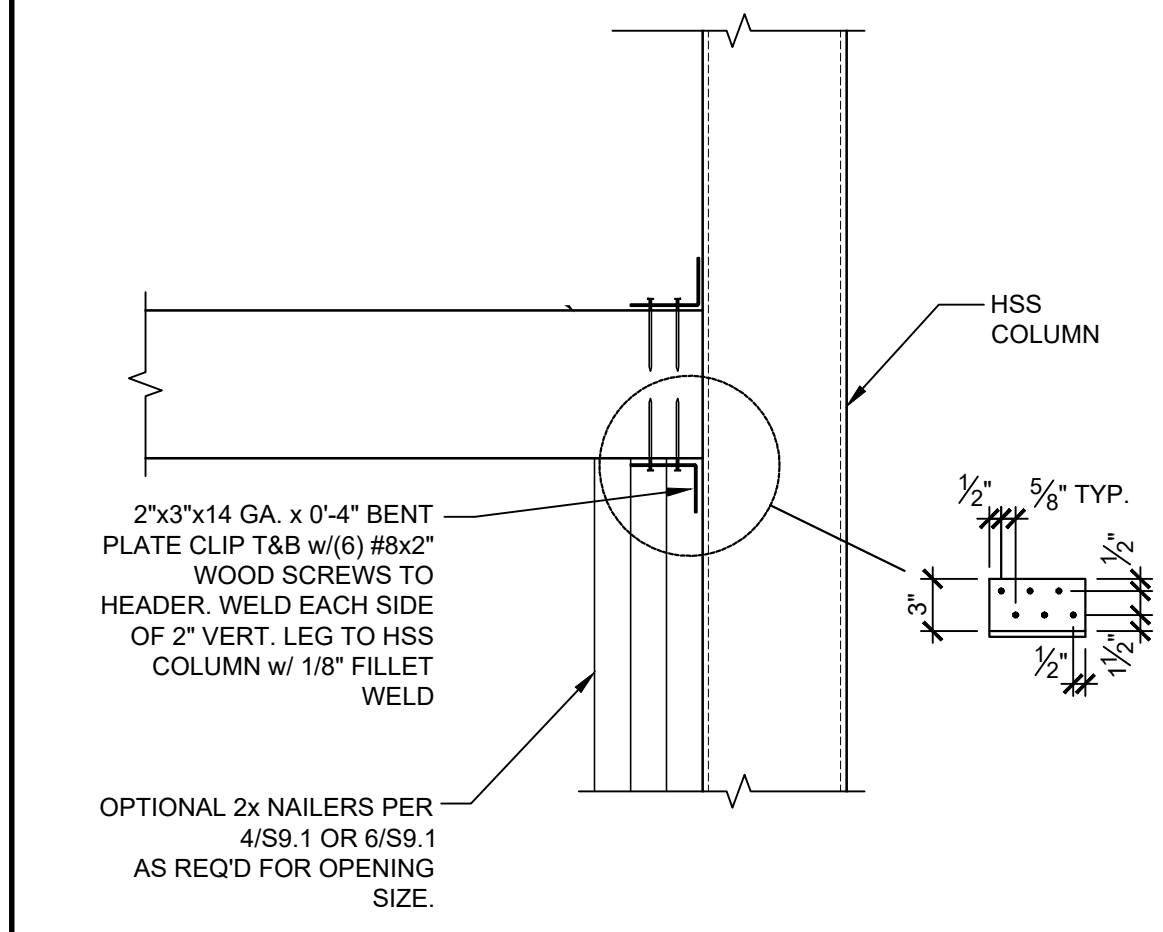
FINISH TYPE	FASTENER	SPACING	
		E.N.	F.N.
1/2" PLYWOOD SHEATHING CONFORMING TO PS1-09, APA RATED, 5 PLY 32/16, OR 1/2" O.S.B. PANELS EXPOSURE 1 WITH 7/8" STUCCO (PER A5.0)	PER ARCHITECTURAL SHEETS		

1. ALL SCREWS IN EXTERIOR APPLICATIONS TO BE GALVANIZED.

FINISH SCHEDULE 7



TYP. END WALL FRAMING w/ DOOR SCALE: 1/4"=1'-0" 4



PSL HDR CONN. TO HSS COLUMN SCALE: 1/4"=1'-0" 8

EXTERIOR DOOR/WINDOW OPENINGS 6'-0" OR LESS						
	HEADER	ALTERNATE HEADER	WINDOW SILL	ALTERNATE WINDOW SILL	KING STUDS	ALTERNATE KING STUD
DETAIL	6/S9.2	11/S9.2	7/S9.2	12/S9.2	6/S9.2	11/S9.2

EXTERIOR DOOR/WINDOW OPENINGS GREATER THAN 6'-0" UP TO 10'-0"						
	HEADER	ALTERNATE HEADER	WINDOW SILL	ALTERNATE WINDOW SILL	KING STUDS	ALTERNATE KING STUD
DETAIL	1/S9.2	11/S9.2	2/S9.2	12/S9.2	1/S9.2	11/S9.2

INTERIOR DOOR/WINDOW OPENINGS						
	HEADER (6'-0" MAX OPENING)	ALTERNATE HEADER (10'-0" MAX OPENING)	WINDOW SILL (6'-0" MAX OPENING)	ALTERNATE WINDOW SILL (10'-0" MAX OPENING)	KING STUDS (6'-0" MAX OPENING)	ALTERNATE KING STUD (10'-0" MAX OPENING)
DETAIL	15/S9.2	11/S9.2	16/S9.2	12/S9.2	15/S9.2	11/S9.2

STUD / TRACK SCHEDULE			
		STUDS	TRACKS
(EXTERIOR WALLS)	LOWER FLOORS	1000162-33	1000150-43
(EXTERIOR WALLS)	UPPER FLOORS	800S162-33	800T150-43
(INTERIOR WALLS WITHOUT BOOKSHELVES OR CASEWORK)	BOTH FLOORS	362S125-30 362162-33 <sup>3</sup>	362T125-30 362150-43 <sup>3</sup>
(INTERIOR WALLS WITH BOOKSHELVES OR CASEWORK)	BOTH FLOORS	600S162-33	600T150-43

- NOTES:
- SEE 19/S9.1 FOR STUD AND TRACK PROPERTIES. LARGER STUDS AND TRACKS MAY BE USED FOR ARCHITECTURAL PURPOSES. TOP & BOTTOM TRACKS SHALL BE 43 MILS (18 GA) MIN. @ EXTERIOR WALLS, 30 MILS (20GA.) MIN. @ INTERIOR WALLS UNO.
  - STUD AND TRACK SIZES ARE MINIMUM.
  - ALL WALL STUDS SPACED AT 16" O.C. MAX U.N.O
  - AT WALL INTERSECTIONS, ATTACH END STUD TO CROSS WALL w/#10 SMS @ 12" O.C.
  - USE 362162-33 AT RESTROOM WALLS FOR ANCHORAGE AT RESTROOM ELEMENTS.
  - USE 362150-43 AT RESTROOM WALLS FOR ANCHORAGE AT RESTROOM ELEMENTS.

STUD / TRACK AND DOOR / WINDOW OPENING SCHEDULES SCALE: 1/4"=1'-0" 9

- 1 LONGITUDINAL GROUND FLOOR ROOF BEAM
- 2 LONGITUDINAL UPPER FLOOR ROOF BEAM
- 3 TRANSVERSE ROOF BEAM
- 4 STEEL TRACK PER STUD/TRACK SCHEDULE 9/-
- 5 STEEL BLOCKING SAME SIZE AS STEEL STUDS @ HORIZONTAL PLYWOOD EDGES - REFER TO DETAIL 17/S9.1 FOR CONNECTION AT EACH END OF BLOCKING TO STUD
- 6 STEEL STUDS PER STUD/TRACK SCHEDULE 9/- @ 16" O.C. TYP.
- 7 HSS COLUMN
- 8 PERIMETER FLOOR BEAM
- 9 WINDOW OPENING MAX 10'-0" WIDE (REFER TO OPENING SCHEDULE 9/S9.0 & 2/S9.0 FOR DETAILS)- SEE FLOOR PLANS FOR LOCATIONS
- 10 DOOR OPENING (REFER TO OPENING SCHEDULE 9/S9.0 & 4/S9.0 FOR DETAILS)- SEE FLOOR PLANS FOR LOCATIONS
- 11 NOT USED
- 12 20GA 1 1/2" WIDE STRAP AT INTERIOR AND EXTERIOR SIDE. ATTACH TO EACH STUD WITH (1) #10 SMS AND PROVIDE (1) BLOCK @ 8'-0" O.C. ATTACHED TO STUDS PER DETAIL 17/S9.1. ATTACH STRAP TO BLOCK w/#10 SMS @ 4" O.C.

- 13 KING STUD PER OPENING SCHEDULES 9/-
  - 14 WINDOW/DOOR HEADER PER OPENING SCHEDULES 9/-
  - 15 WINDOW SILL PER OPENING SCHEDULES 9/-
  - 16 OPTIONAL 2x WOOD TRIMMER FOR ATTACHMENT OF WINDOW/DOOR FRAME. ATTACH TO METAL STUDS w/ #8 SMS @ 8" O.C. MAX. STAGGERED.
  - 17 NOT USED
  - 18 NOT USED
  - 19 FULL-WIDTH STOREFRONT OPENING (STOREFRONT BY OTHERS) MAX STORY DRIFT RATIO = 2.0%
  - 20 HEADER @ OPTIONAL FULL-WIDTH STOREFRONT OPENING MAX LIVE LOAD DEFLECTION = 0".
- SOLID 5 1/4"x7" (1.8E) PARALLAM PSL HEADER (ESR-1387) ATTACHED DIRECTLY TO HSS COLUMNS - SEE 8/-

- 21 STEEL TRACK PER 9/S9.0 w/#8x1 1/2" WOOD SCREWS @ 16" O.C. TO PARALLAM PSL HEADER & #8x1" STDS SCREWS @ 16" O.C. TO HSS HEADER.

KEY NOTES



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SITE NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD ON PC

Professional Engineer Seal: **MANLY D. FROST**, No. 53380, State of California, Registered Professional Engineer, Structural, No. RST#20203, 09/20/2021. THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

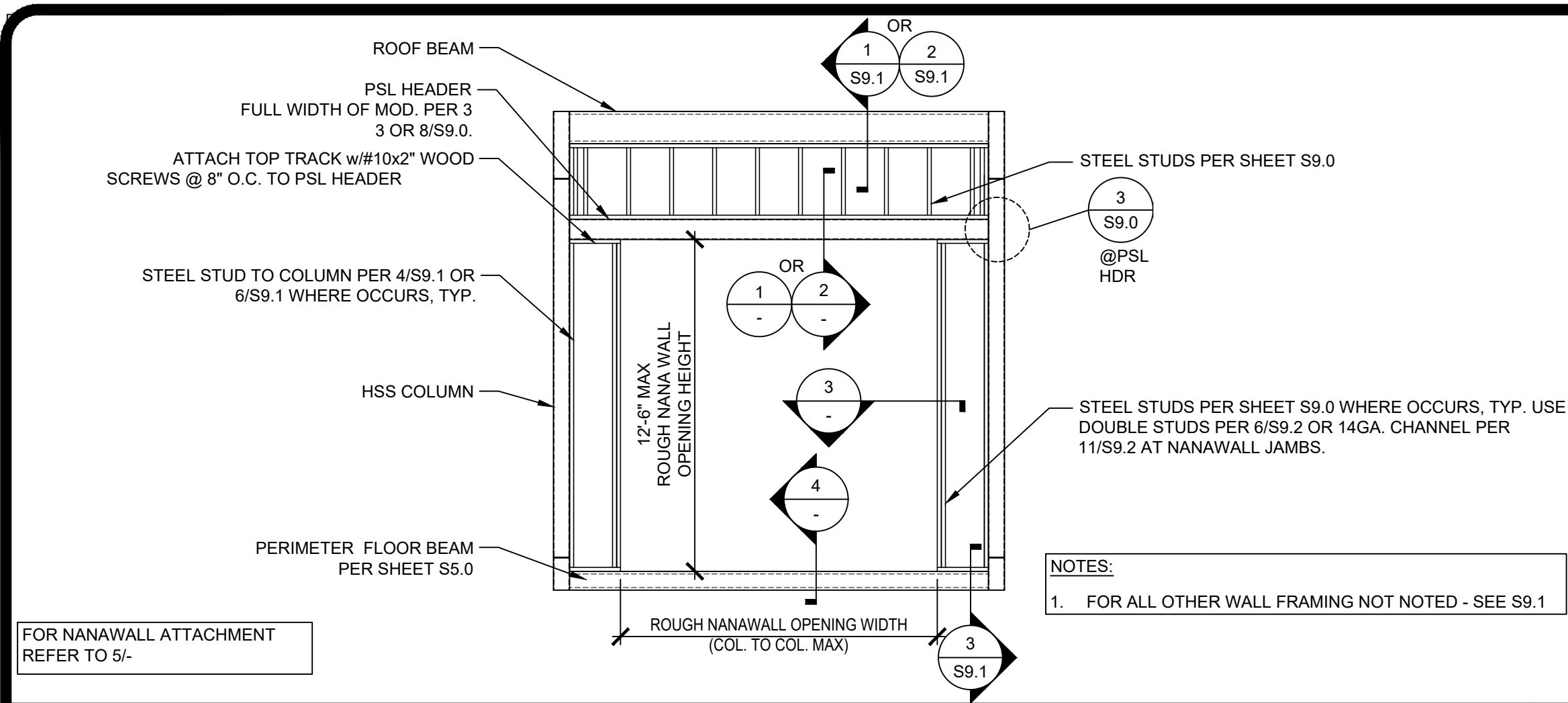
NO.	DESCRIPTION

DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20

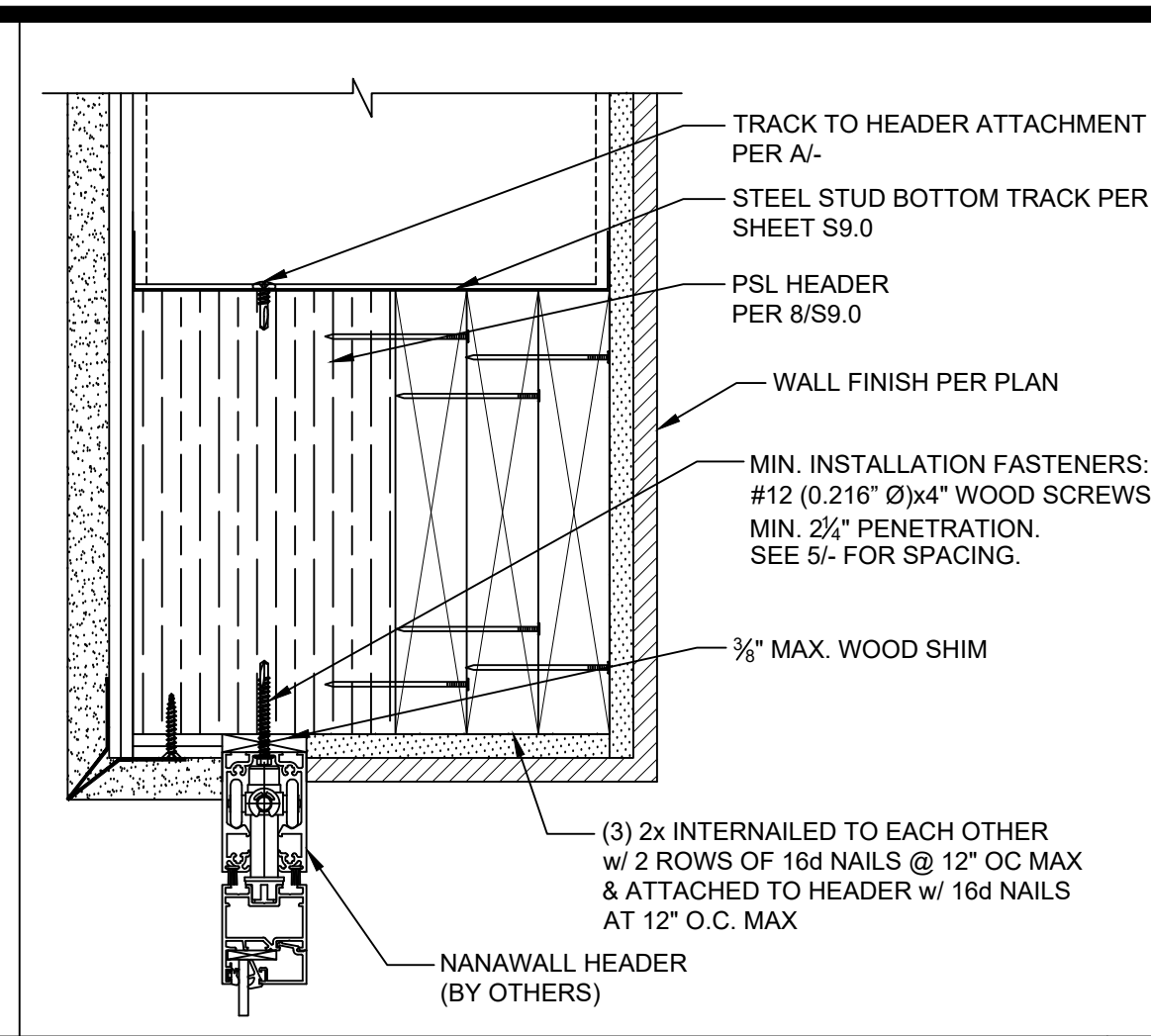
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**WALL FRAMING ELEVATIONS**

SHEET NUMBER:  
**S9.0**

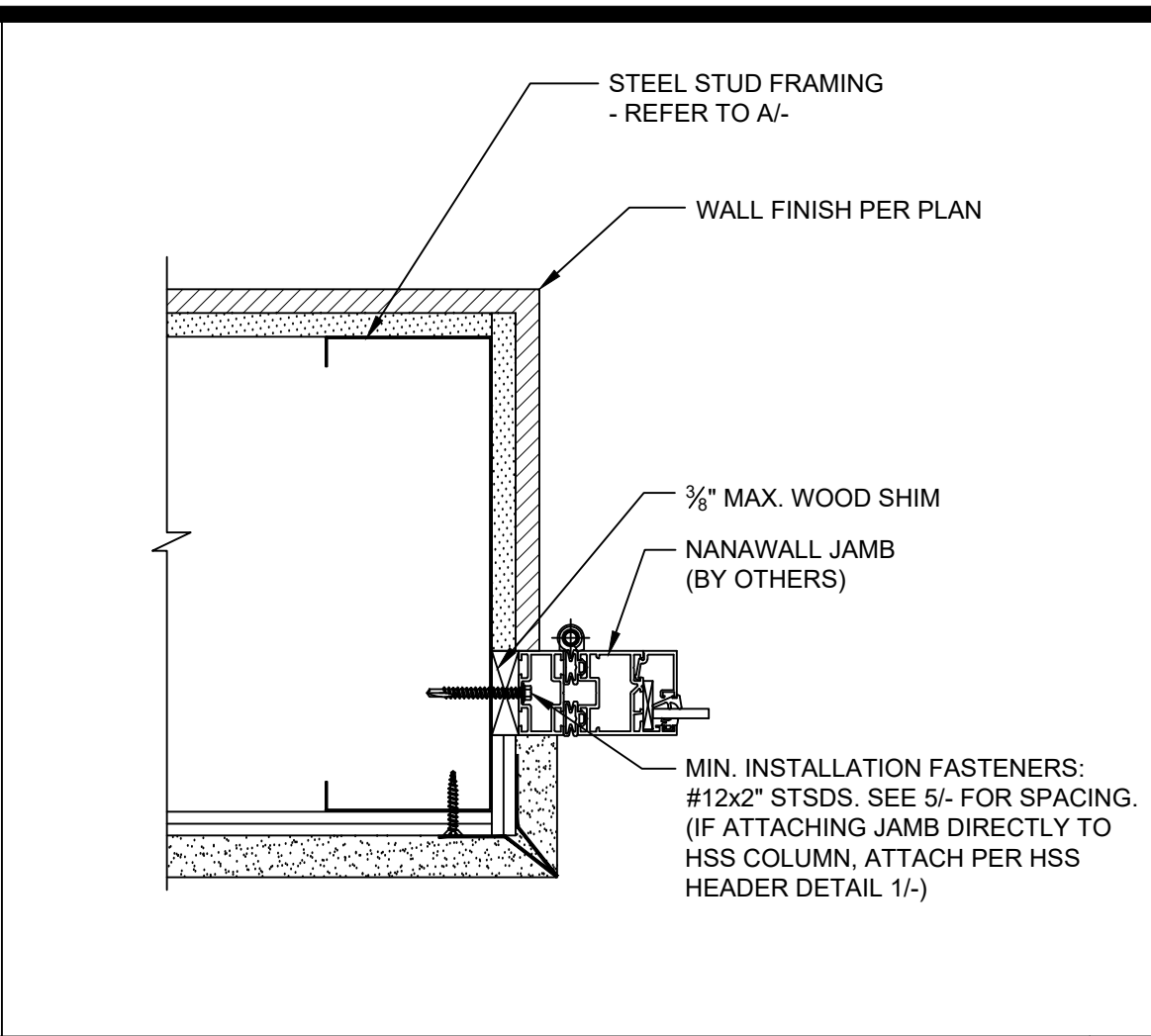




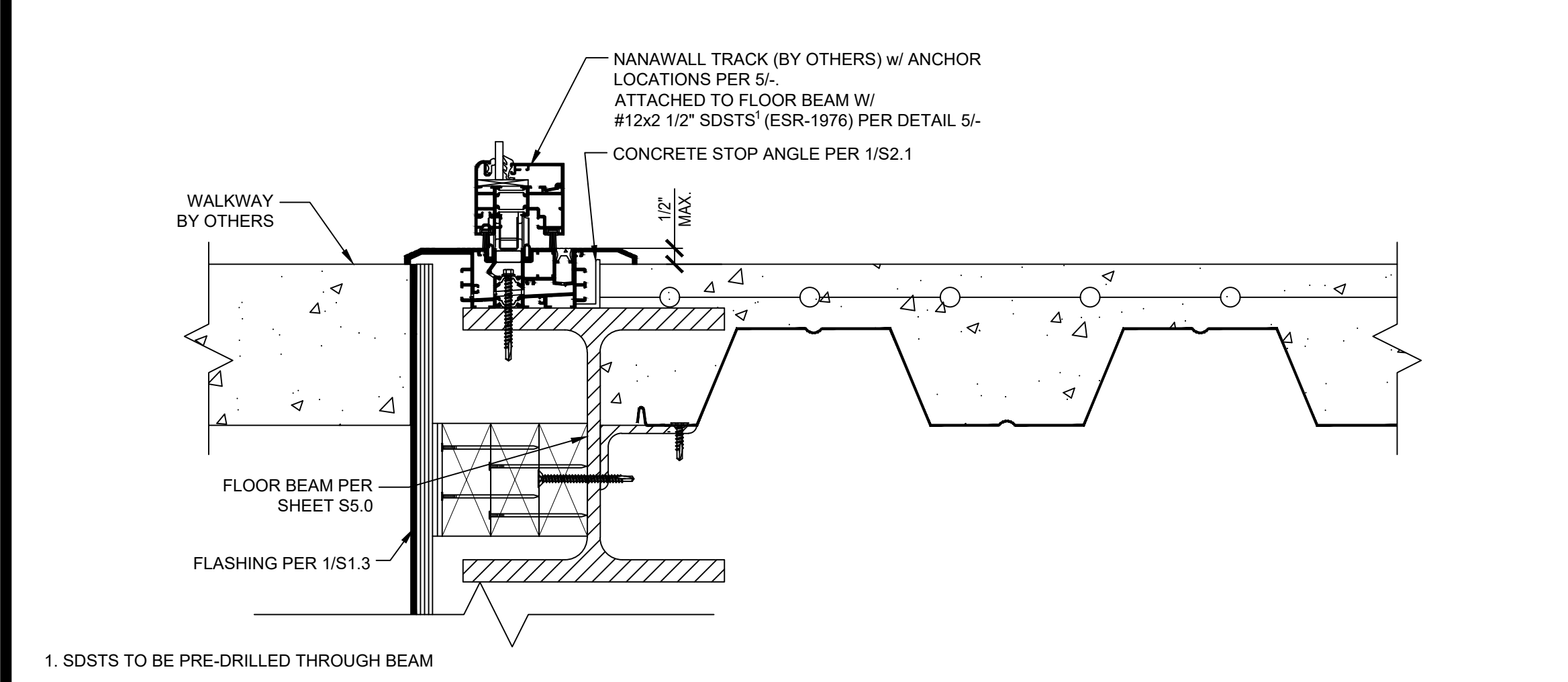
END WALL FRAMING @ NANAWALL SCALE: 1/4" = 1'-0" A



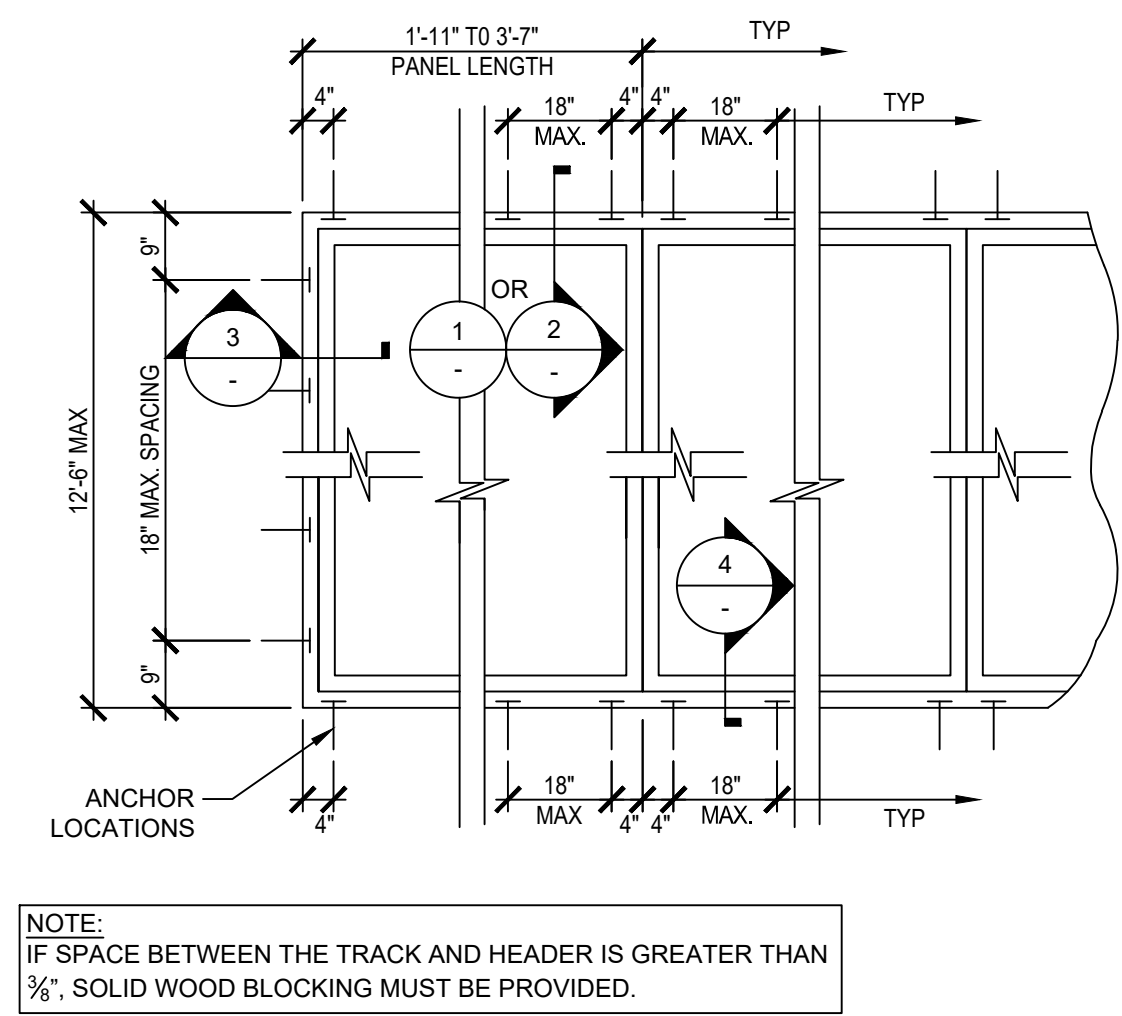
NANAWALL HEAD @ PSL DETAIL SCALE: 3\"/>



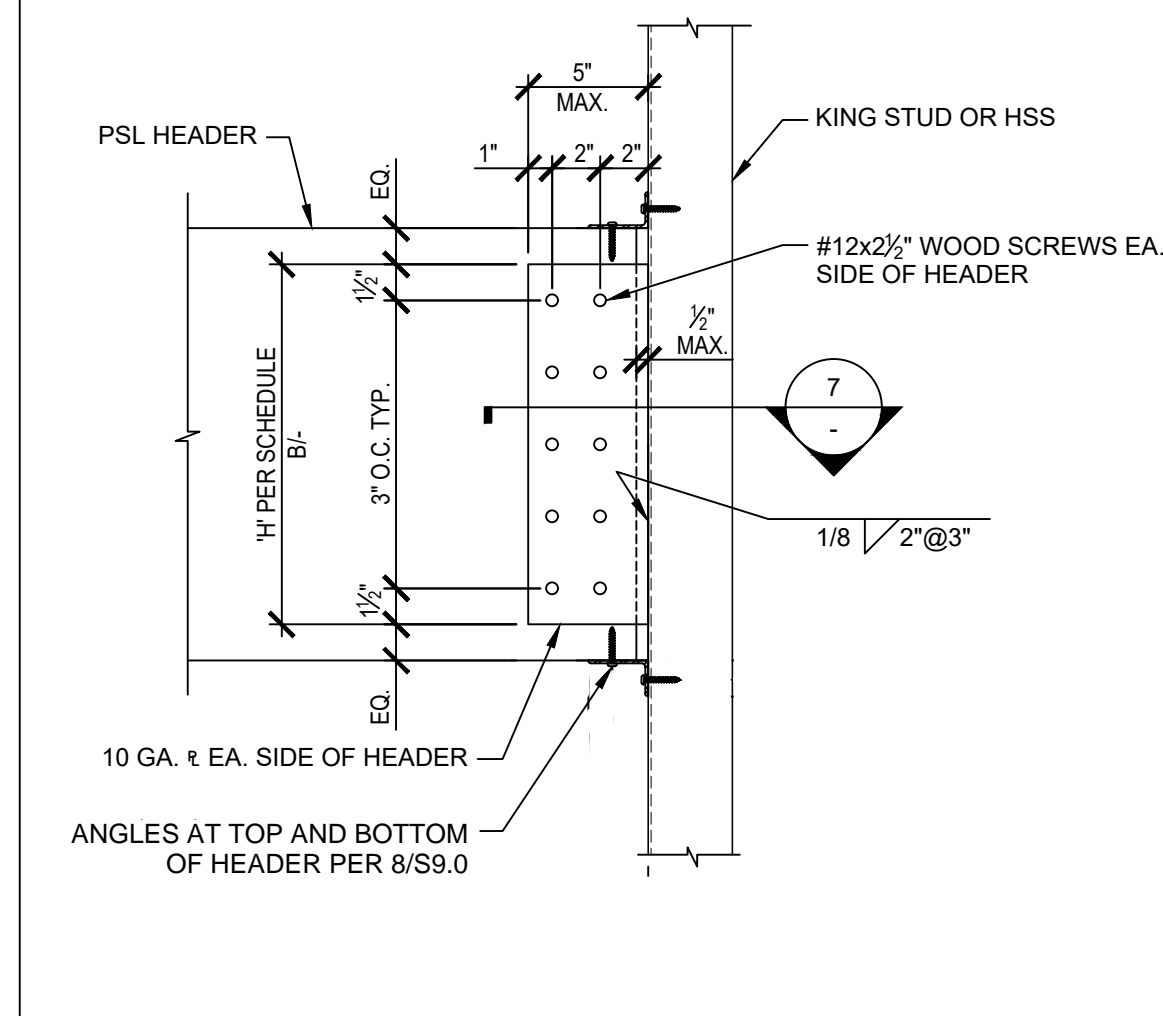
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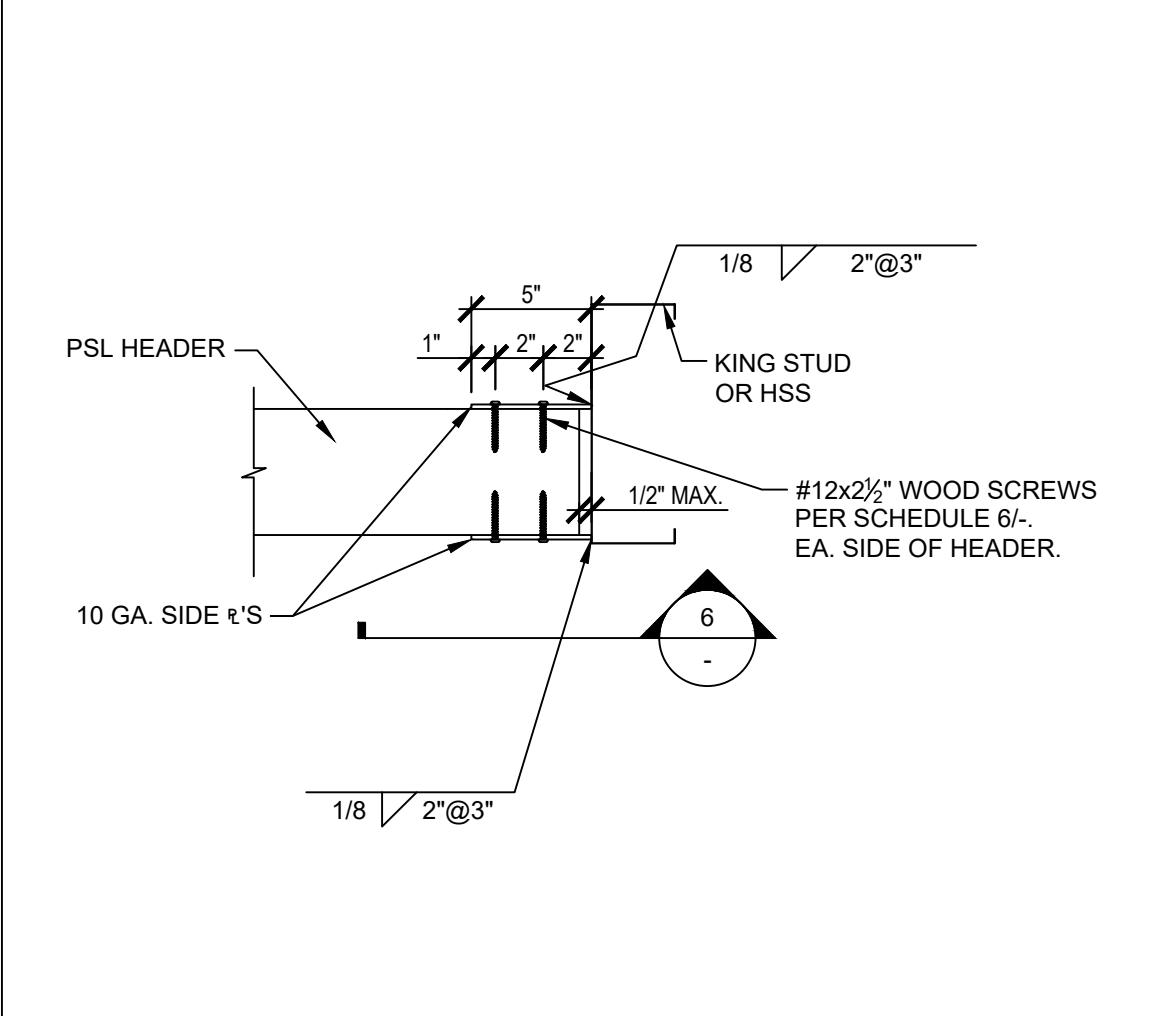
NANAWALL SILL DETAIL SCALE: 3\"/>



NANAWALL ANCHORAGE/FRAME SCALE: 1-1/2\"/>



HEADER VIEW - FRONT VIEW SCALE: 1-1/2\"/>



HEADER CONNECTION - TOP VIEW SCALE: 1-1/2\"/>

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NANAWALL NOTES

- MAX. INTERIOR NANAWALL WEIGHT = 6.0 PSF.
- MAX. EXTERIOR NANAWALL WEIGHT = 8.0 PSF.
- EXTERIOR NANAWALLS SHALL HAVE AN ALLOWABLE DESIGN WIND LOAD CAPACITY OF +/-30 PSF MIN.
- NANAWALLS MAY BE TOP SUPPORTED FROM HEADER OR FLOOR SUPPORTED.
- BOTTOM OF NANAWALLS SHALL BE Laterally SUPPORTED WITHIN FLOOR MOUNTED TRACK SYSTEM.
- NANAWALLS SHALL BE FIXED AT ONE OR BOTH ENDS SUCH THAT STACKED CONDITION OCCURS AT ENDS OF WALL ONLY. STACKED NANAWALL SHALL NOT BE FREE TO SLIDE ALONG LENGTH OF SUPPORTING HEADER.

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SET NAME  
(2) 72'x40' 2 STORY  
CLASSROOM BUILDINGS

SITE SPECIFIC PROJECT NAME  
GLENDALE USD  
GLENOAKS  
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD ON PC

09/20/2021  
RST#20203

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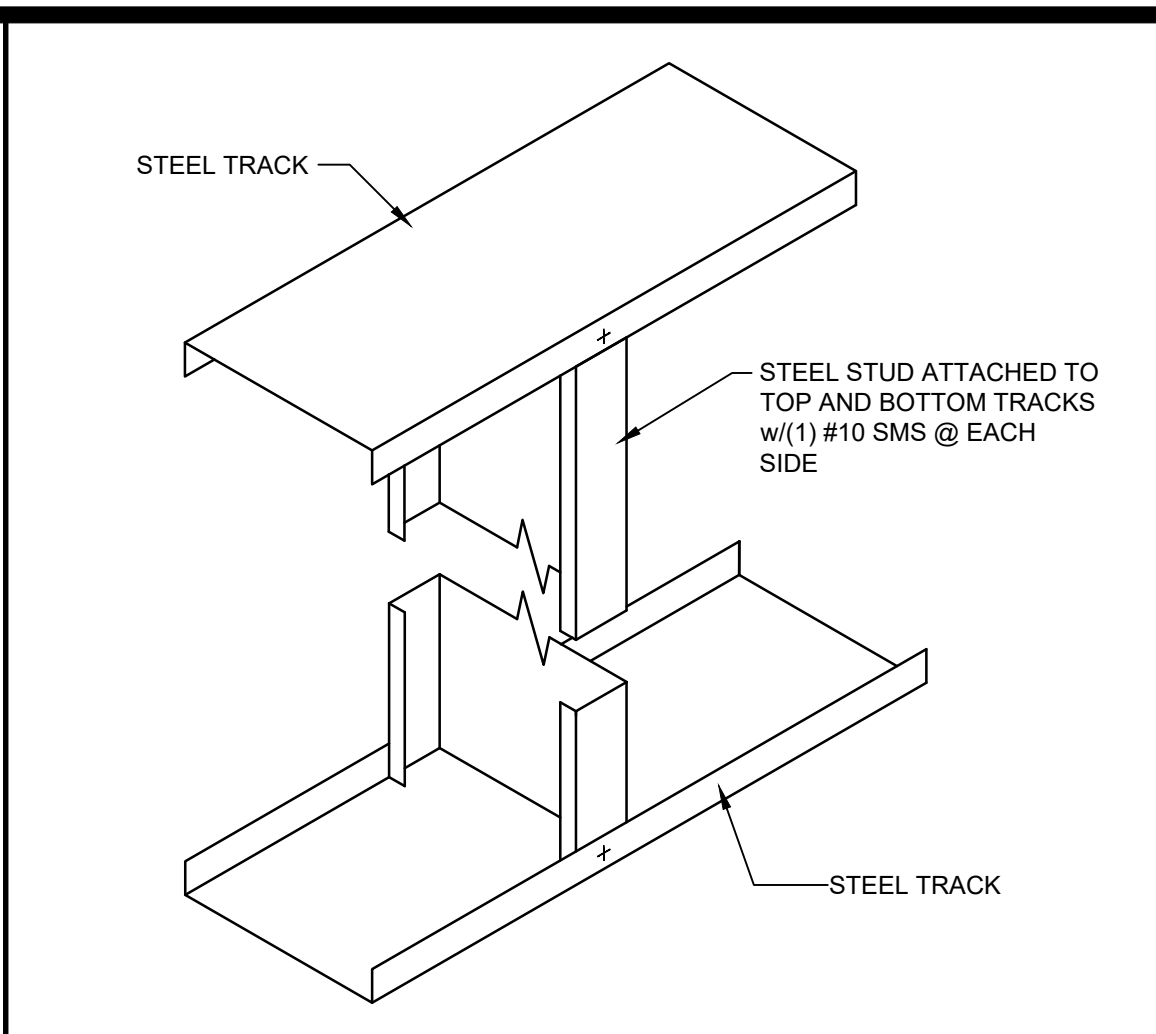
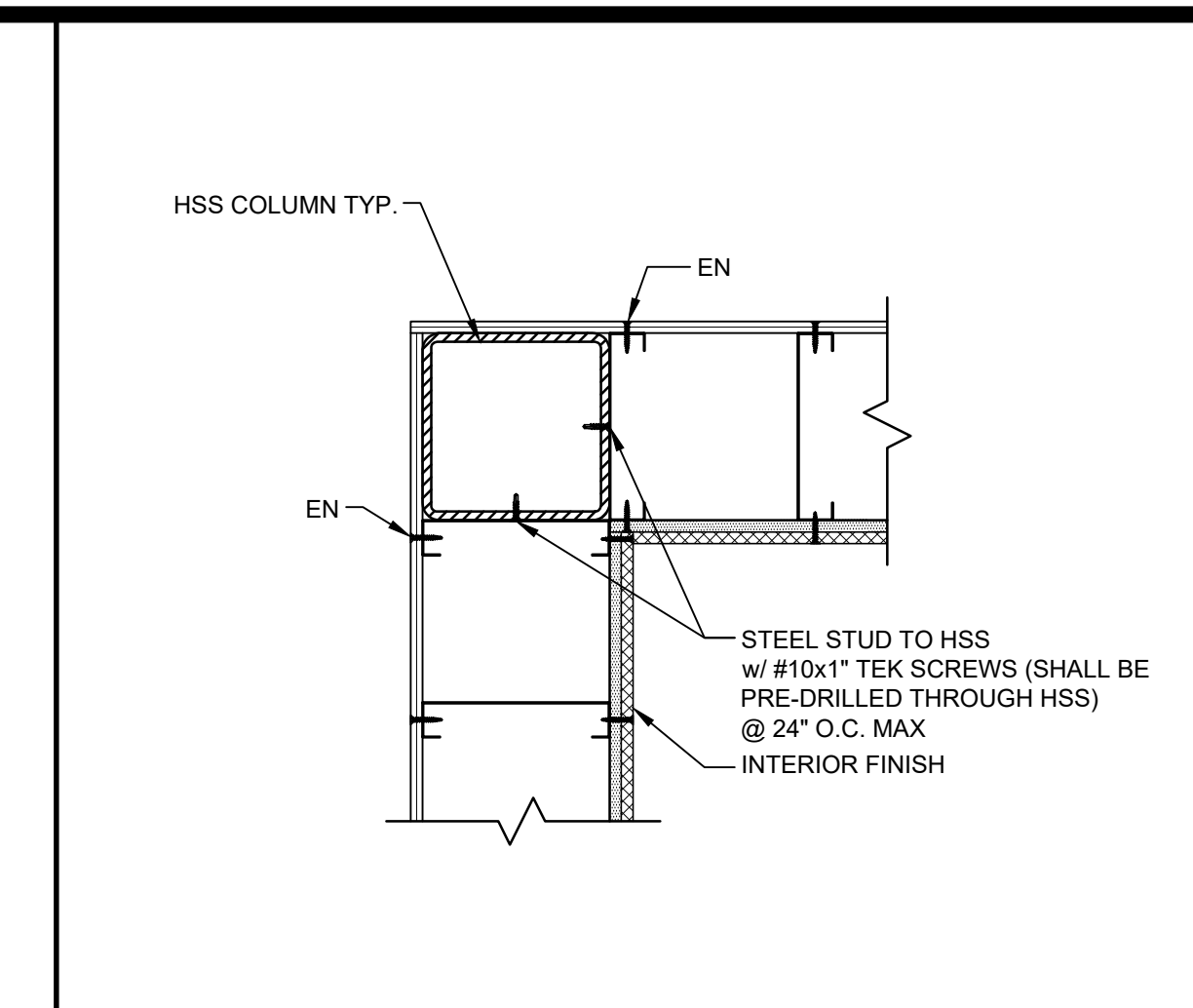
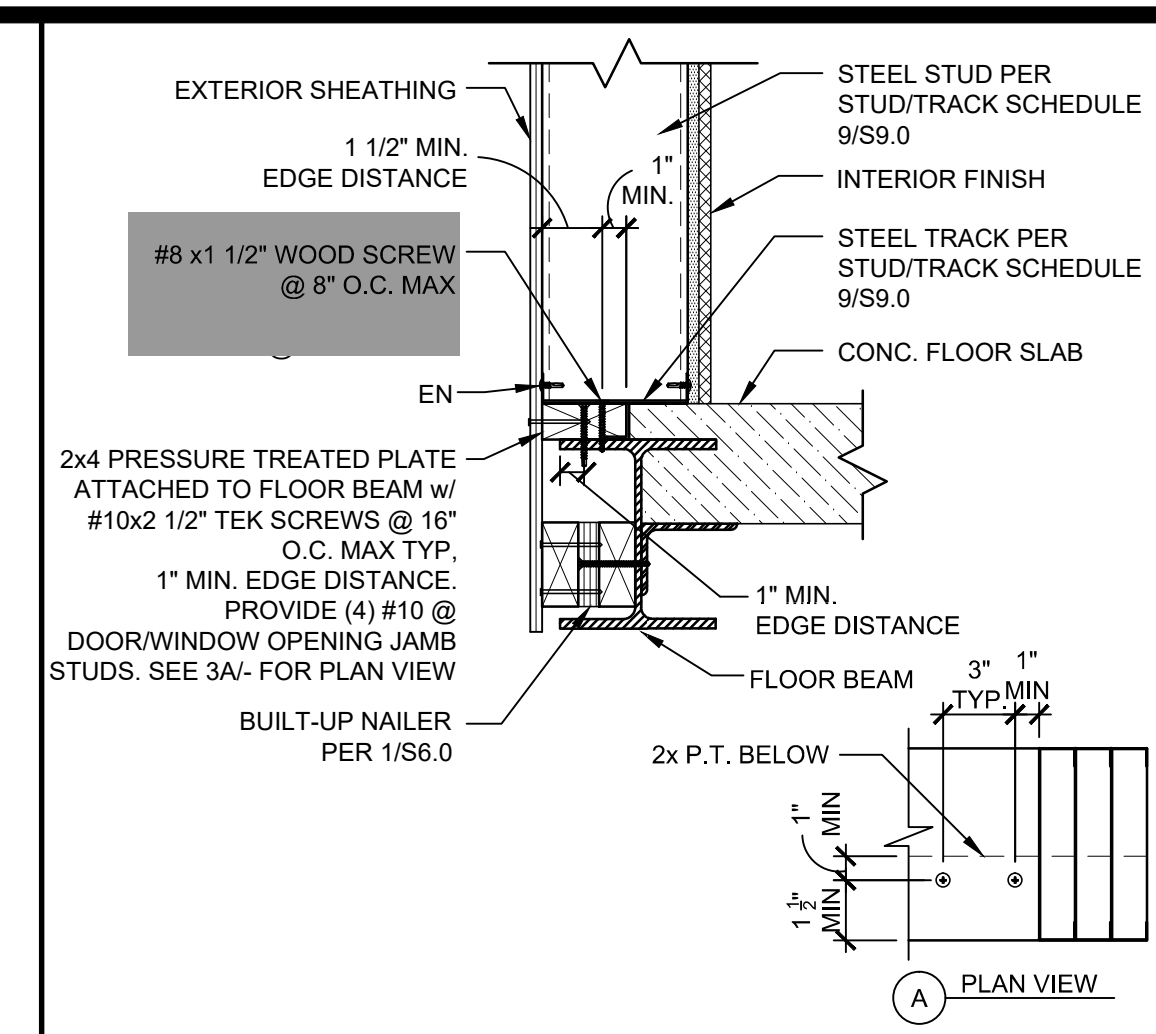
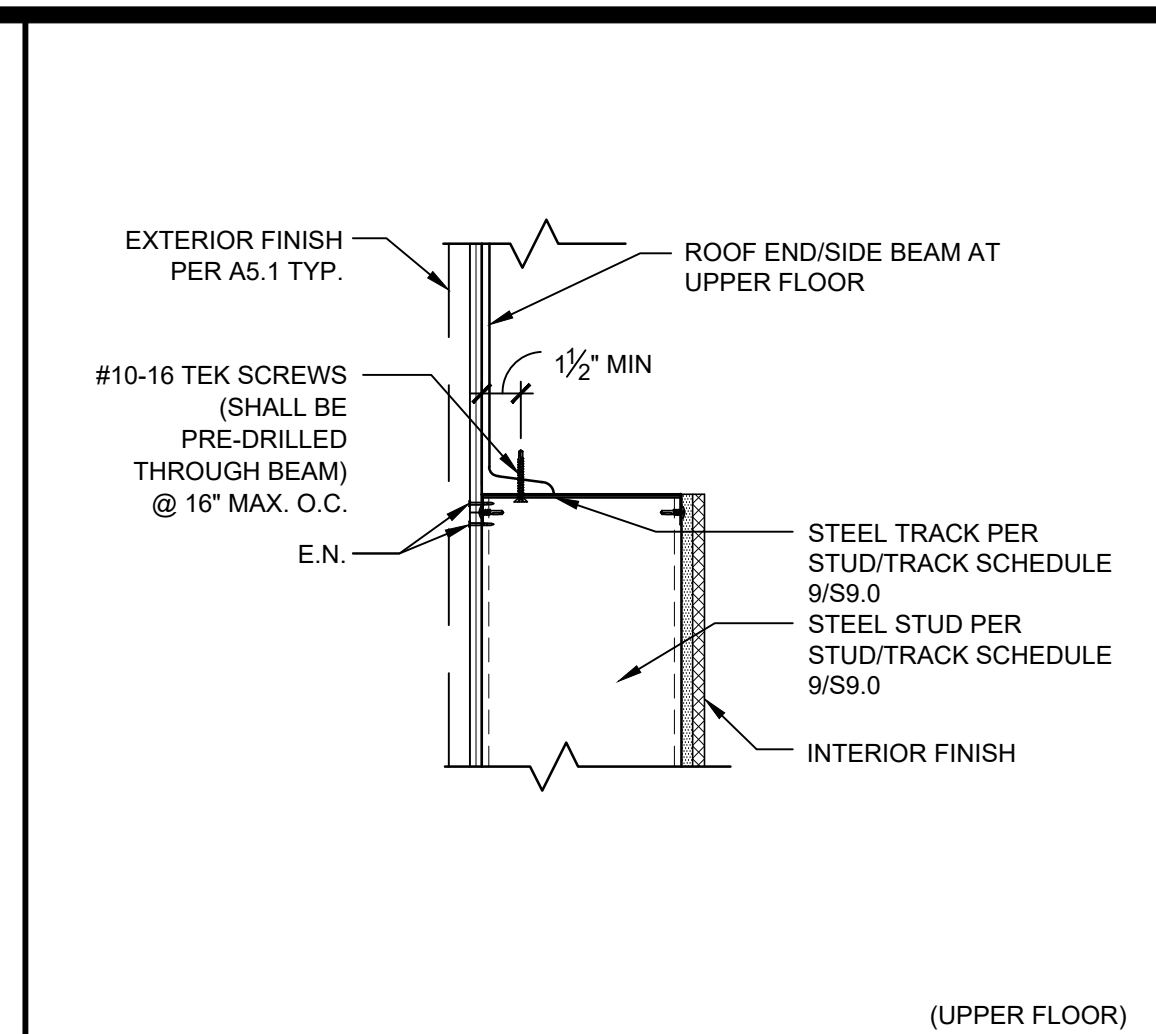
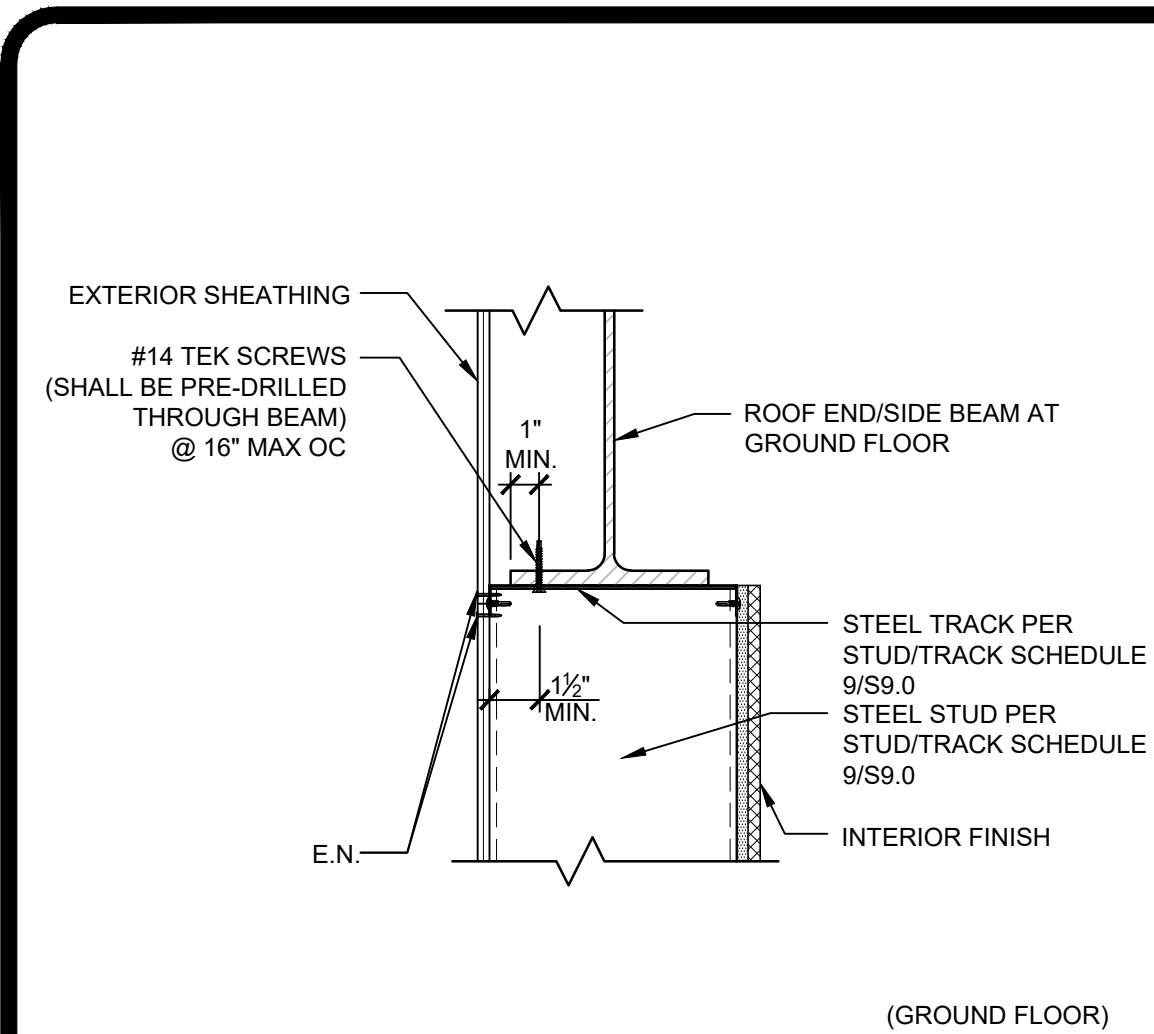
REVISIONS


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20

SHEET TITLE:  
NANAWALL FRAMING  
ELEVATIONS& DETAILS

SHEET NUMBER:  
**S9.0A**

BID SET 10/01/2021



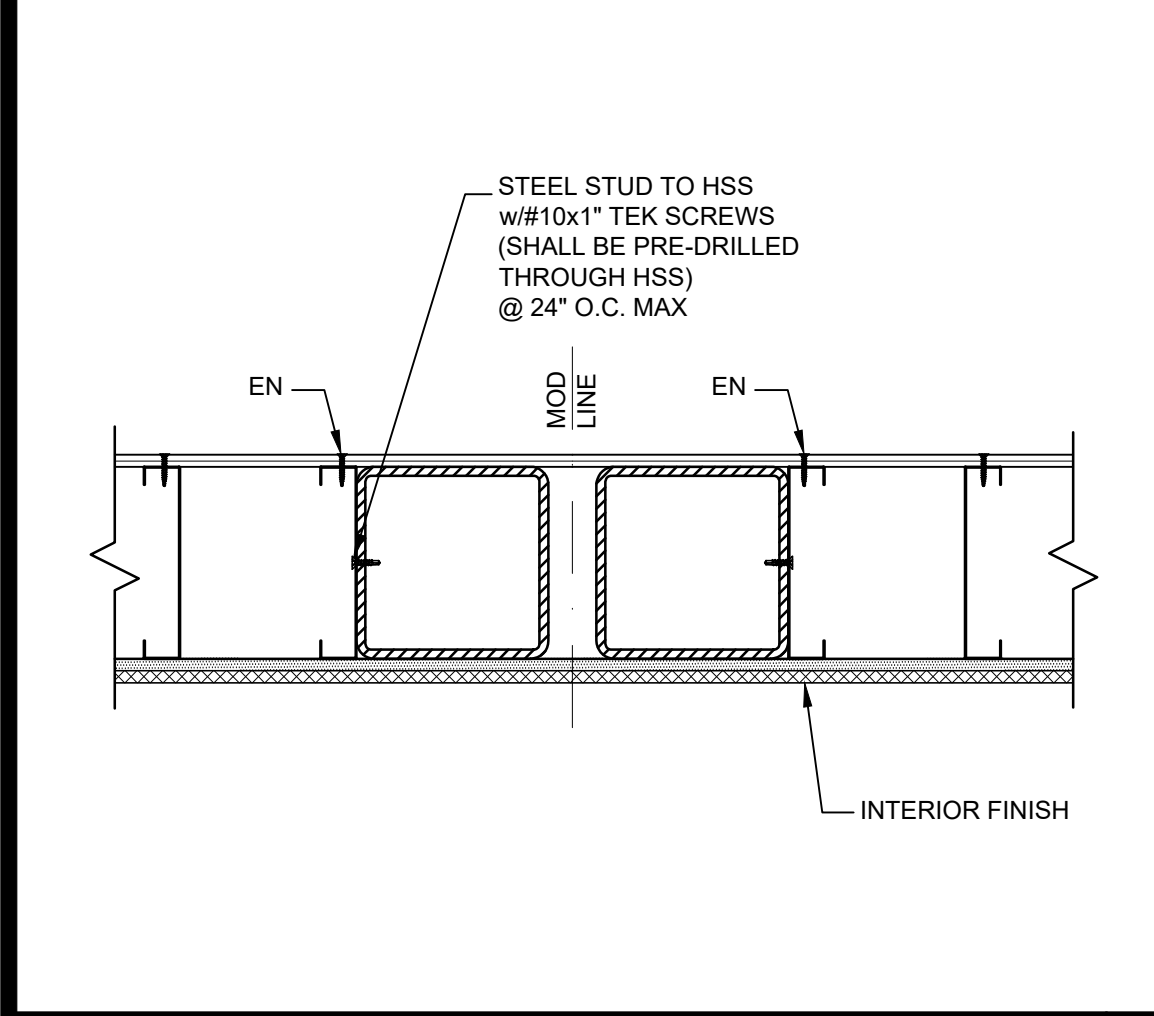
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WALL TO ROOF BEAM DETAIL SCALE: 1 1/2"=1'-0" 2

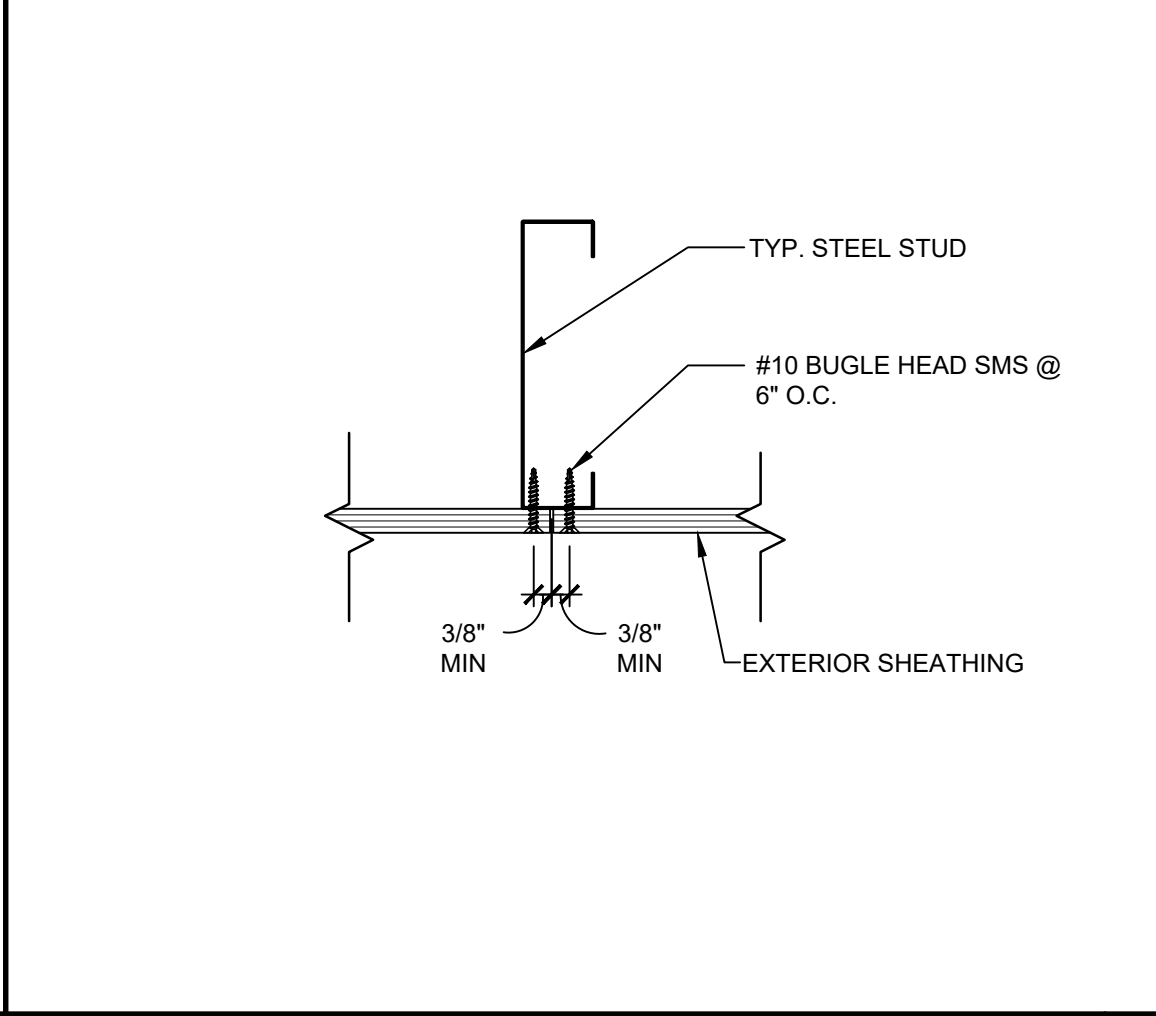
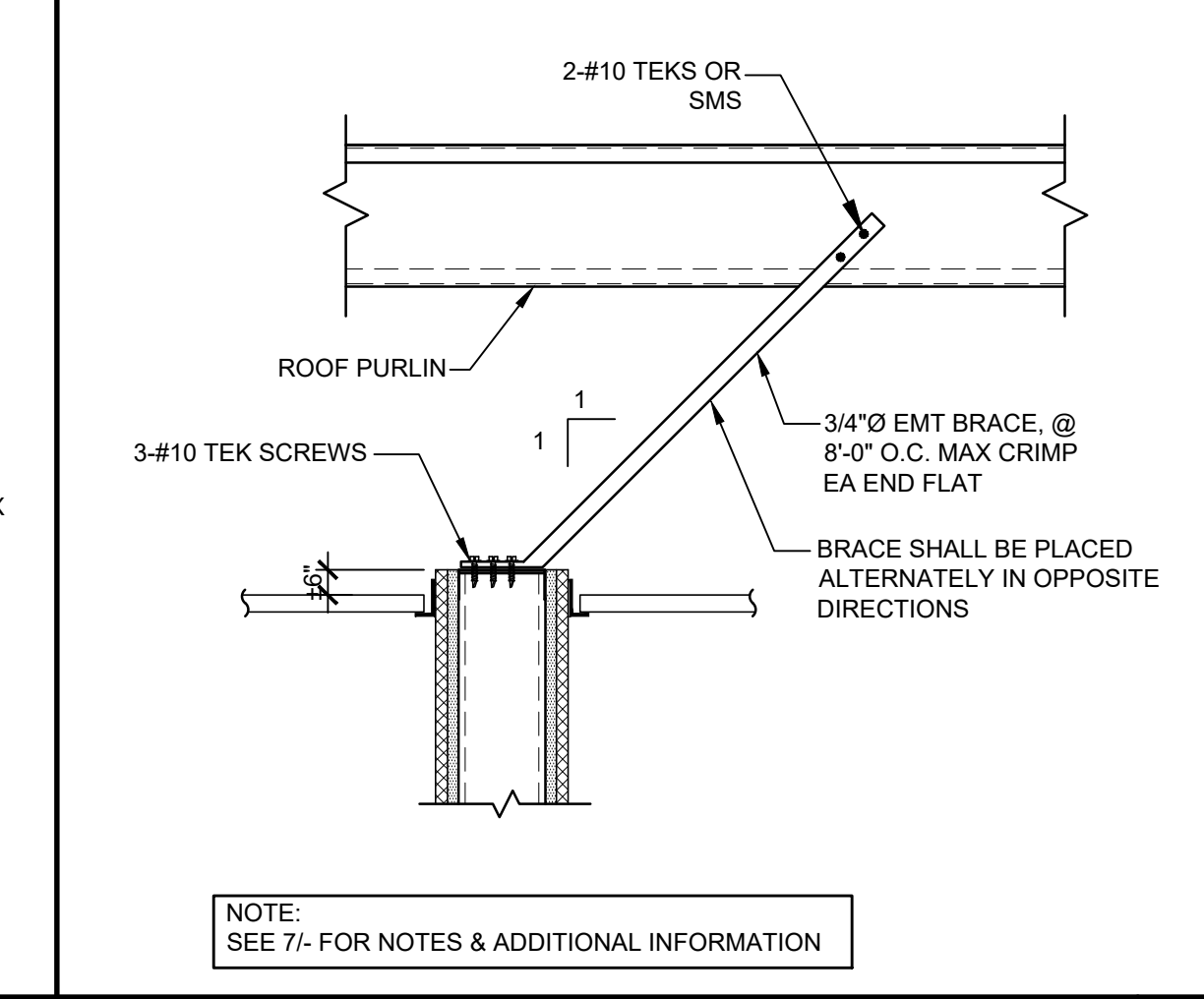
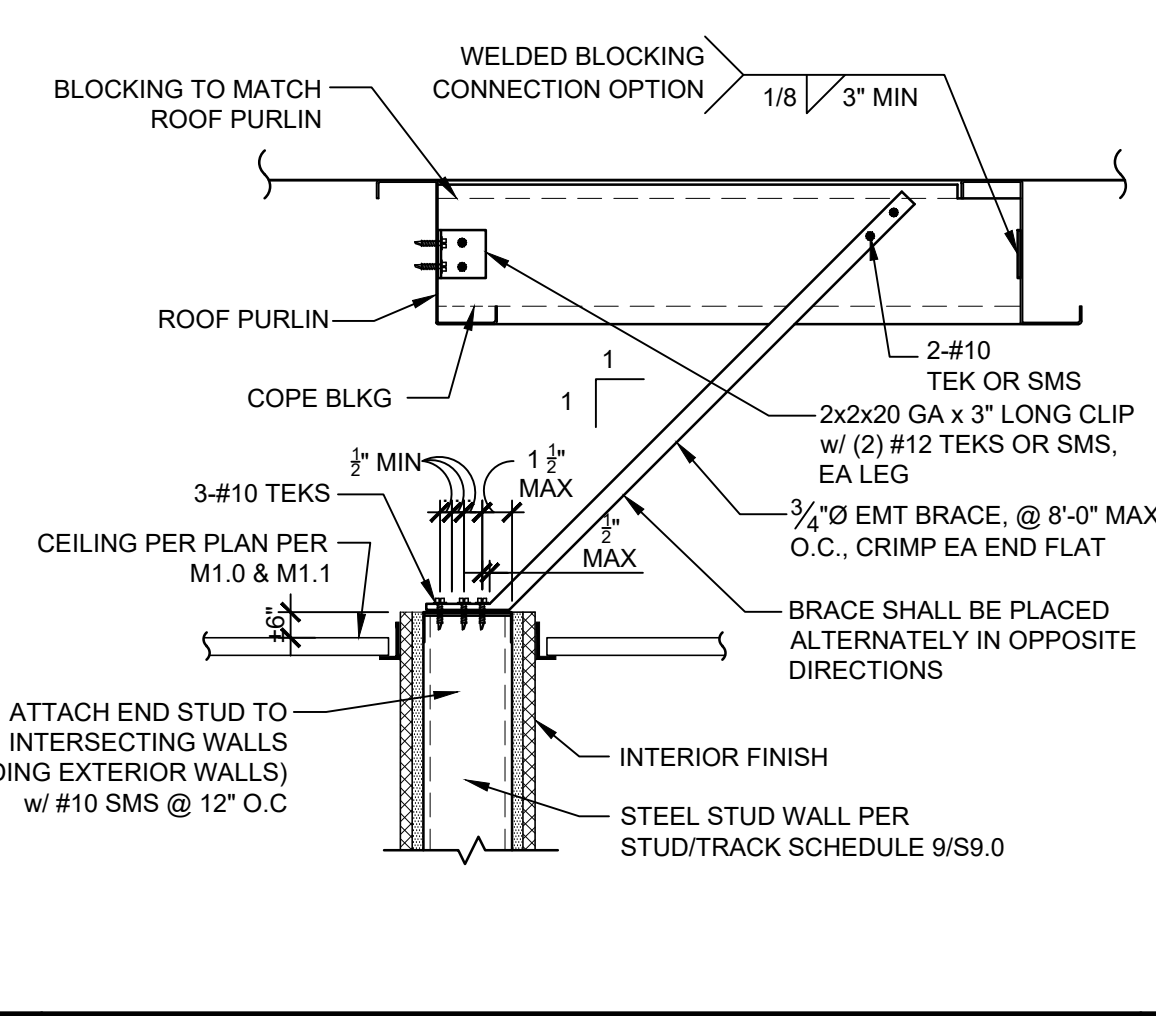
WALL TO FLOOR TYP. DETAIL SCALE: 1 1/2"=1'-0" 3

WALL TO COL TYP. DET @ CORNERS SCALE: 1 1/2"=1'-0" 4

TYP. STUD ATTACHMENT SCALE: 1 1/2"=1'-0" 5



NOTES:  
 1. MAX LENGTH OF EMT BRACE = 5'-4" (10 EMT MAY EXTEND TO 7'-0")  
 EMT RADIUS OF GYRATION = 0.309 IN.  
 2. SEE 11/- FOR OPTIONAL TOP OF WALL BLOCKING DETAIL  
 3. WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.  
 4. FOR BRACING OF PARTITION WALLS WITH CABINETS OR BOOKSHELVES, REFER TO DETAILS 14 OR 16/-.

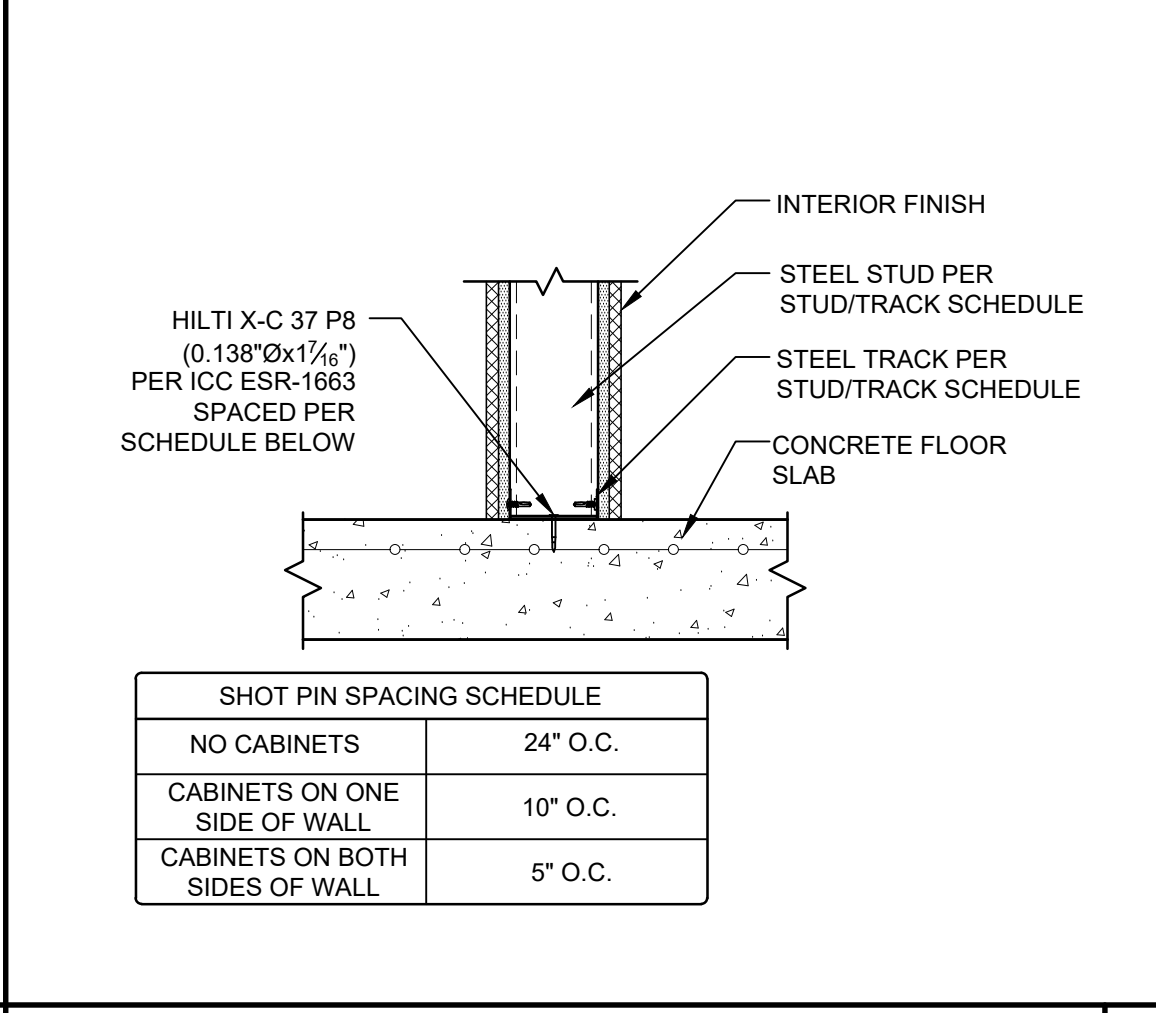
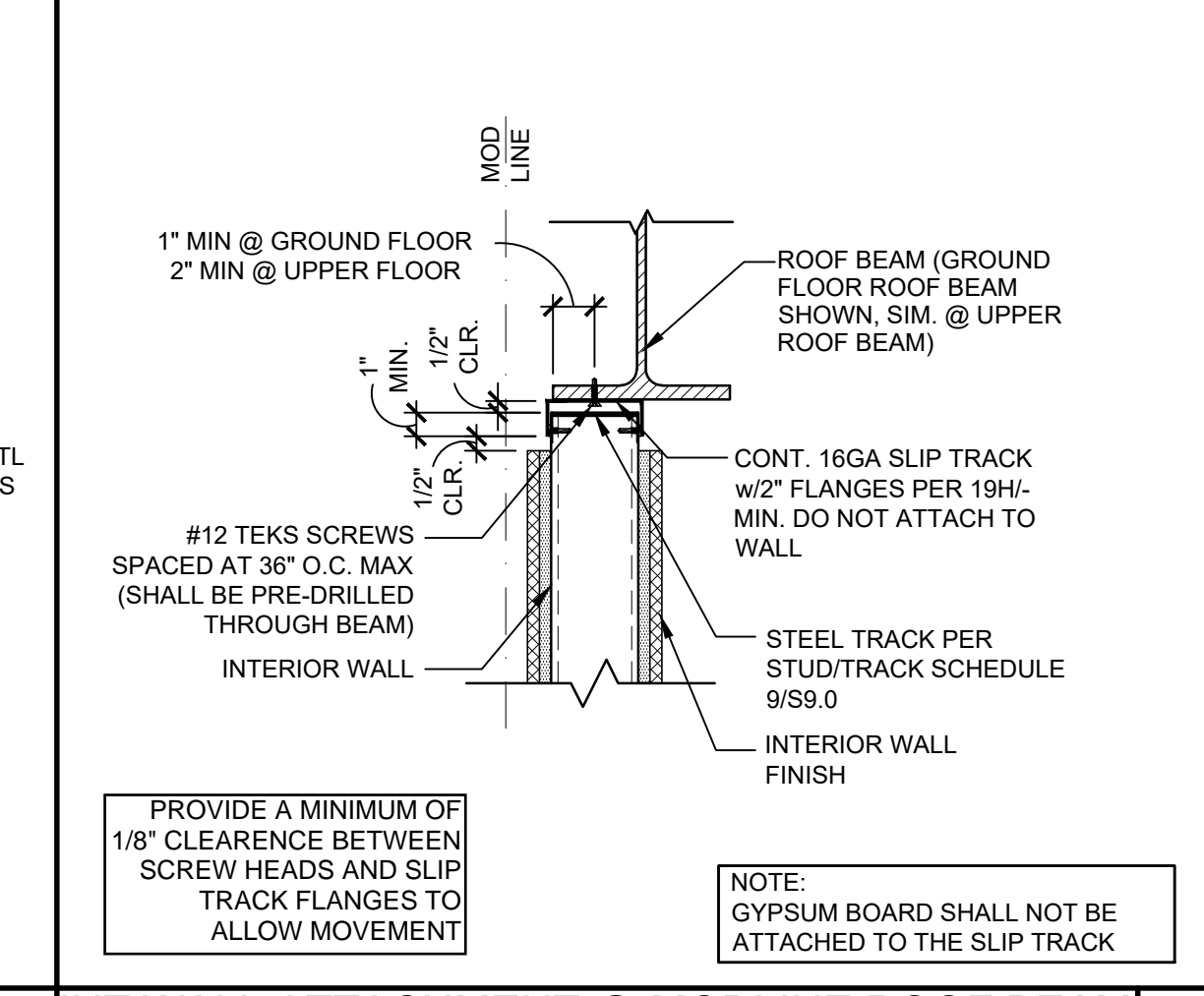
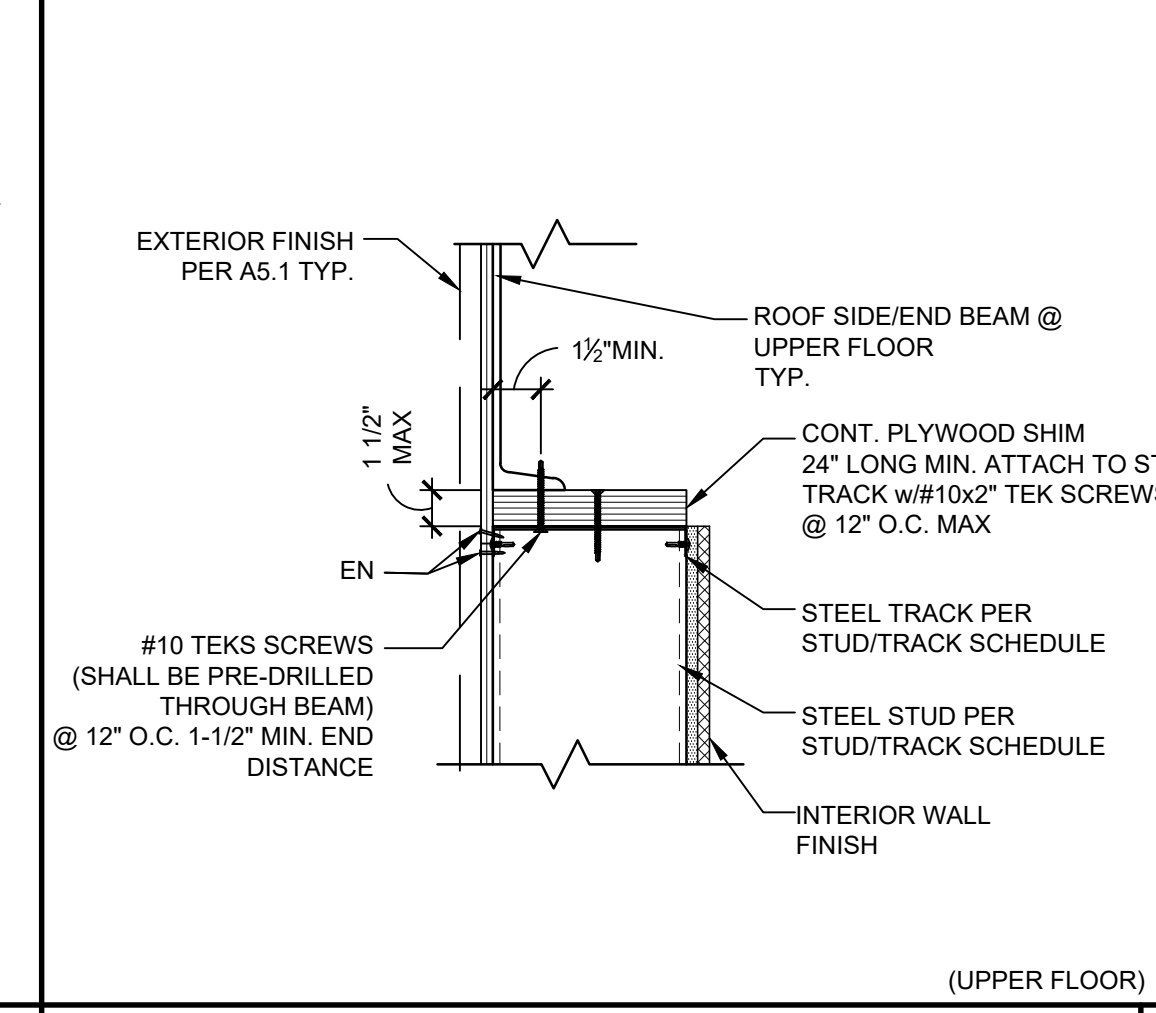
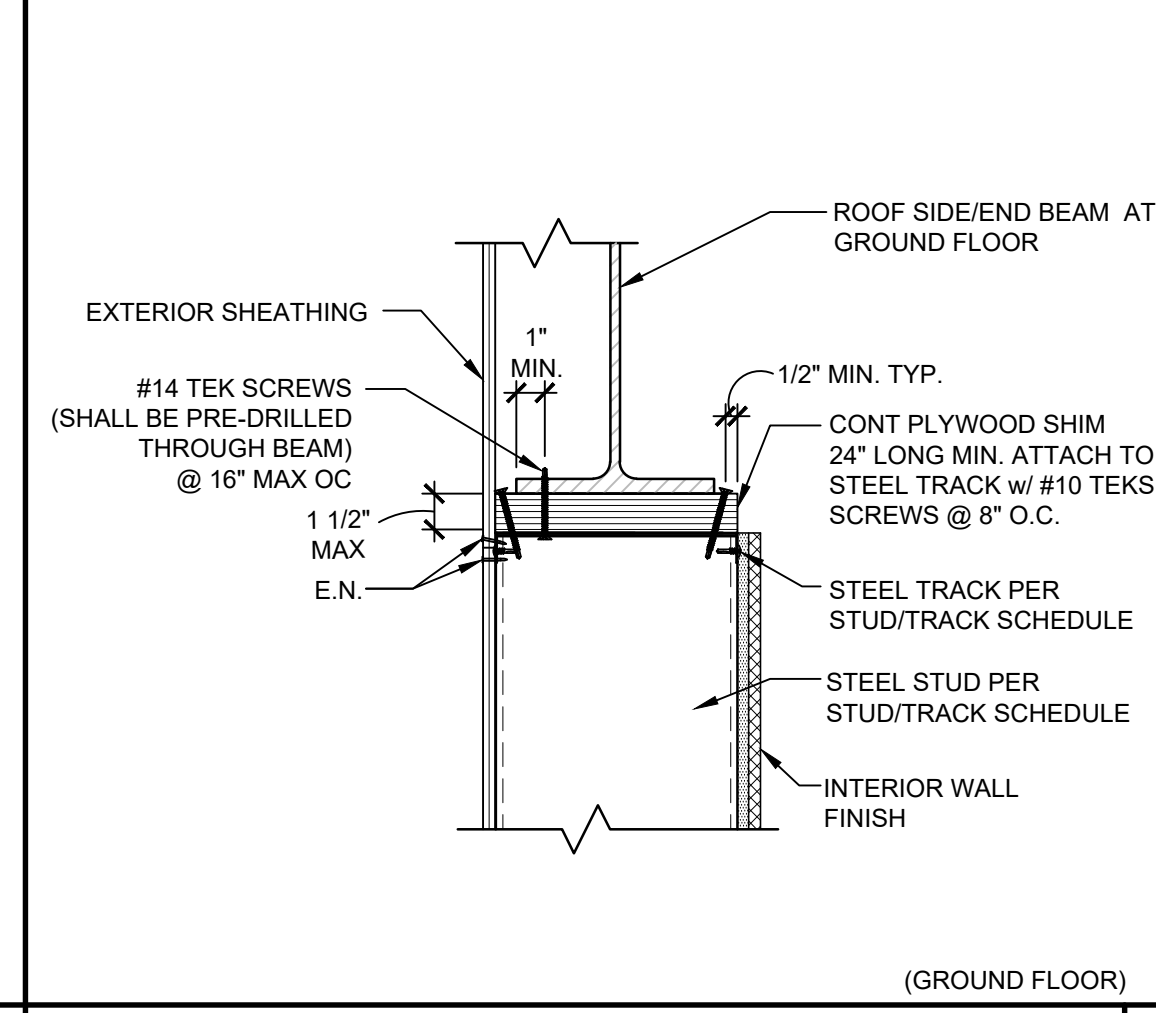
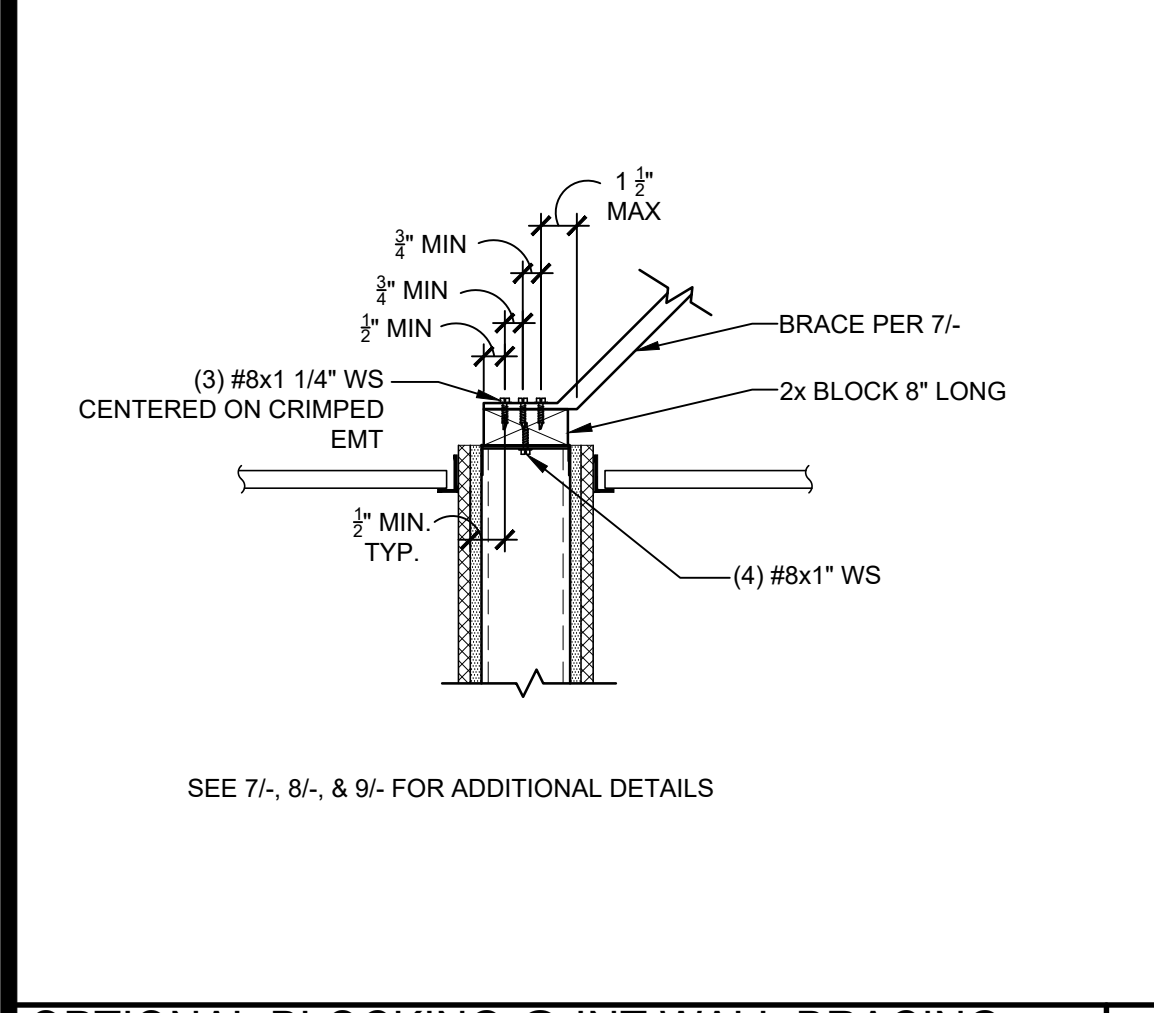


WALL TO COL TYP. DET @ MODLINES SCALE: 1 1/2"=1'-0" 6

INT WALL BRACING (BRACE PERPENDICULAR TO PURLIN OR PARALLEL TO BLOCKING) SCALE: 1 1/2"=1'-0" 7

INT WALL BRACING (BRACE PARALLEL TO PURLIN) SCALE: 1 1/2"=1'-0" 8

PLYWOOD JOINT SCALE: 1 1/2"=1'-0" 10



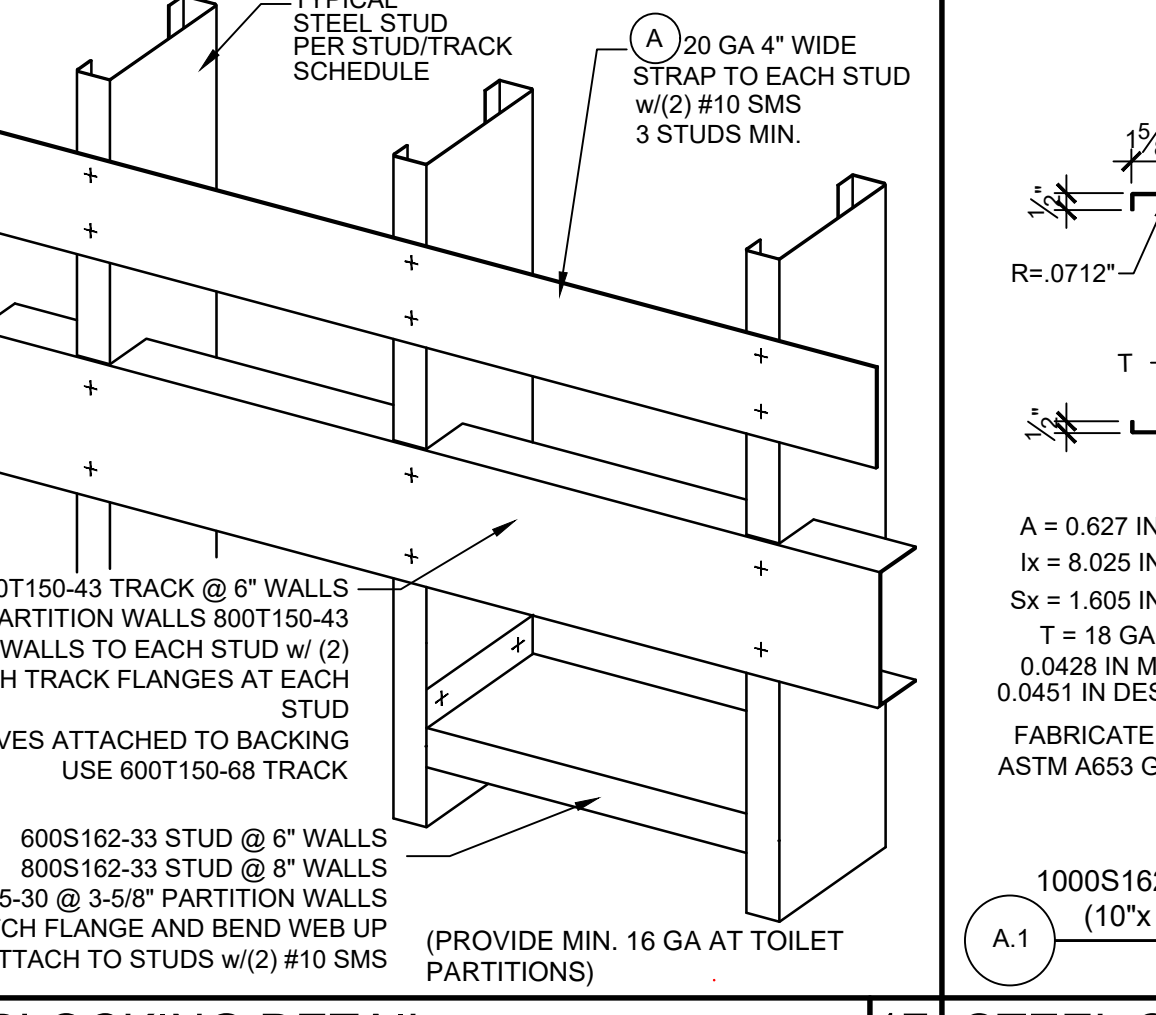
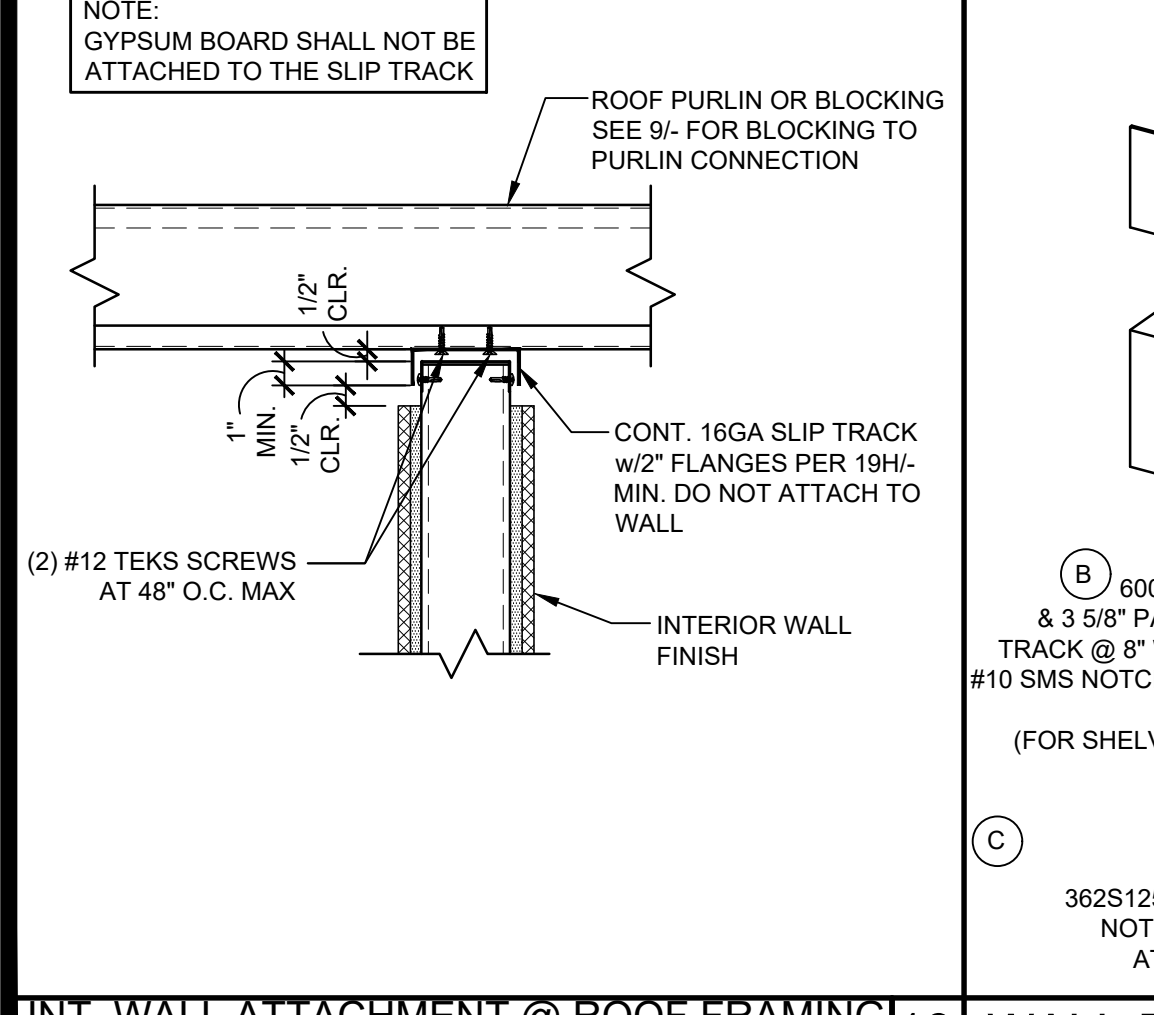
OPTIONAL BLOCKING @ INT WALL BRACING SCALE: 1 1/2"=1'-0" 11

WALL TO ROOF BEAM DET w / SHIM COND SCALE: 1 1/2"=1'-0" 12

WALL TO ROOF BEAM DET w / SHIM COND SCALE: 1 1/2"=1'-0" 13

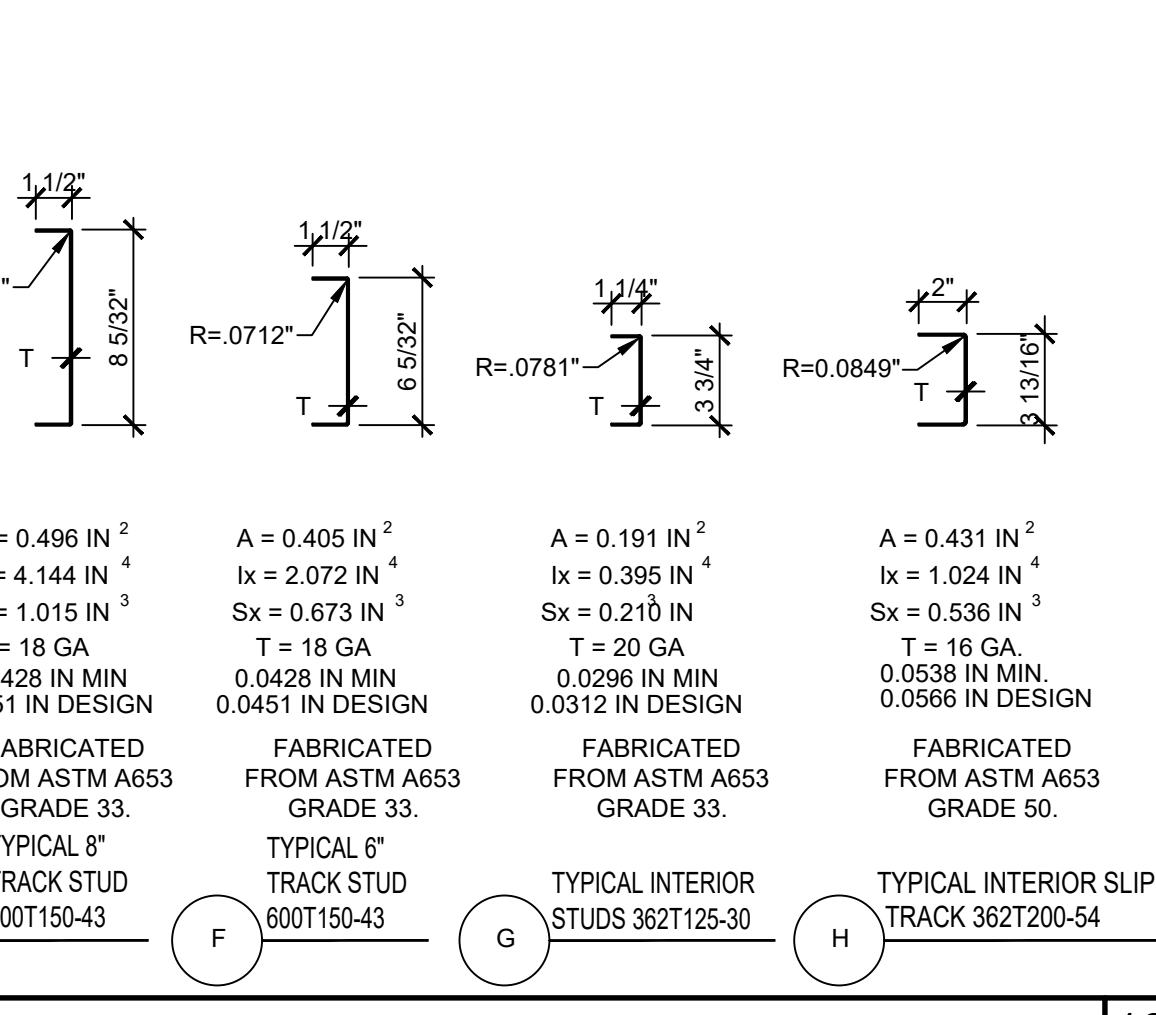
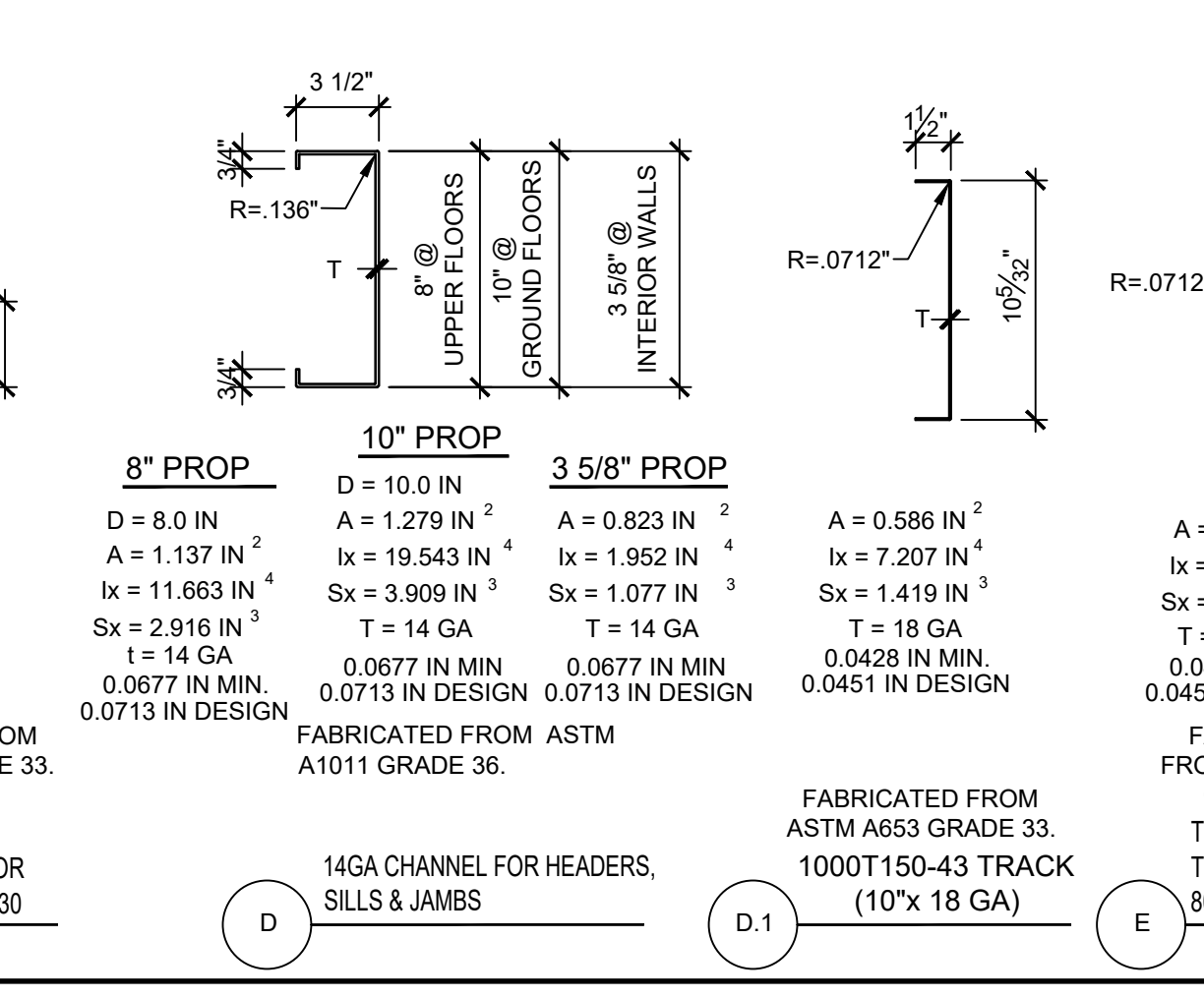
INT WALL ATTACHMENT @ MODLINE ROOF BEAM SCALE: 1 1/2"=1'-0" 14

INTERIOR WALL CONN @ FLOOR SCALE: 1 1/2"=1'-0" 15



STEEL STUD PROPERTIES

A	A = 0.627 IN <sup>2</sup> Ix = 8.025 IN <sup>4</sup> Sx = 1.605 IN <sup>3</sup> T = 18 GA 0.0428 IN MIN. 0.0451 IN DESIGN FABRICATED FROM ASTM A653 GRADE 33.	B	A = 0.413 IN <sup>2</sup> Ix = 3.582 IN <sup>4</sup> Sx = 0.896 IN <sup>3</sup> T = 20 GA 0.0329 IN MIN. 0.0349 IN DESIGN FABRICATED FROM ASTM A653 GRADE 33.	C	A = 0.344 IN <sup>2</sup> Ix = 1.793 IN <sup>4</sup> Sx = 0.598 IN <sup>3</sup> T = 20 GA 0.0329 IN MIN. 0.0349 IN DESIGN FABRICATED FROM ASTM A653 GRADE 33.	D	A = 0.194 IN <sup>2</sup> Ix = 0.381 IN <sup>4</sup> Sx = 0.210 IN <sup>3</sup> T = 20 GA 0.0296 IN MIN. 0.0312 IN DESIGN FABRICATED FROM ASTM A653 GRADE 33.	D.1	A = 0.586 IN <sup>2</sup> Ix = 7.207 IN <sup>4</sup> Sx = 1.419 IN <sup>3</sup> T = 14 GA 0.0428 IN MIN. 0.0451 IN DESIGN FABRICATED FROM ASTM A653 GRADE 33.	E	A = 0.496 IN <sup>2</sup> Ix = 4.144 IN <sup>4</sup> Sx = 1.015 IN <sup>3</sup> T = 18 GA 0.0428 IN MIN. 0.0451 IN DESIGN FABRICATED FROM ASTM A653 GRADE 33.	F	A = 0.405 IN <sup>2</sup> Ix = 2.072 IN <sup>4</sup> Sx = 0.673 IN <sup>3</sup> T = 18 GA 0.0428 IN MIN. 0.0451 IN DESIGN FABRICATED FROM ASTM A653 GRADE 33.	G	A = 0.191 IN <sup>2</sup> Ix = 0.395 IN <sup>4</sup> Sx = 0.210 IN <sup>3</sup> T = 20 GA 0.0296 IN MIN. 0.0312 IN DESIGN FABRICATED FROM ASTM A653 GRADE 33.	H	A = 0.431 IN <sup>2</sup> Ix = 1.024 IN <sup>4</sup> Sx = 0.536 IN <sup>3</sup> T = 16 GA 0.0538 IN MIN. 0.0568 IN DESIGN FABRICATED FROM ASTM A653 GRADE 50.
---	---	---	---	---	---	---	---	-----	---	---	---	---	---	---	---	---	---



INT. WALL ATTACHMENT @ ROOF FRAMING SCALE: 1 1/2"=1'-0" 16

WALL BLOCKING DETAIL N.T.S. 17

STEEL STUD PROPERTIES N.T.S. 19

INT. WALL ATTACHMENT @ MODLINE ROOF BEAM SCALE: 1 1/2"=1'-0" 14

INTERIOR WALL CONN @ FLOOR SCALE: 1 1/2"=1'-0" 15

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 (2) 72'x40' 2 STORY CLASSROOM BUILDINGS

SITE SPECIFIC PROJECT NAME  
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 GLENOAKS  
 ELEMENTARY SCHOOL

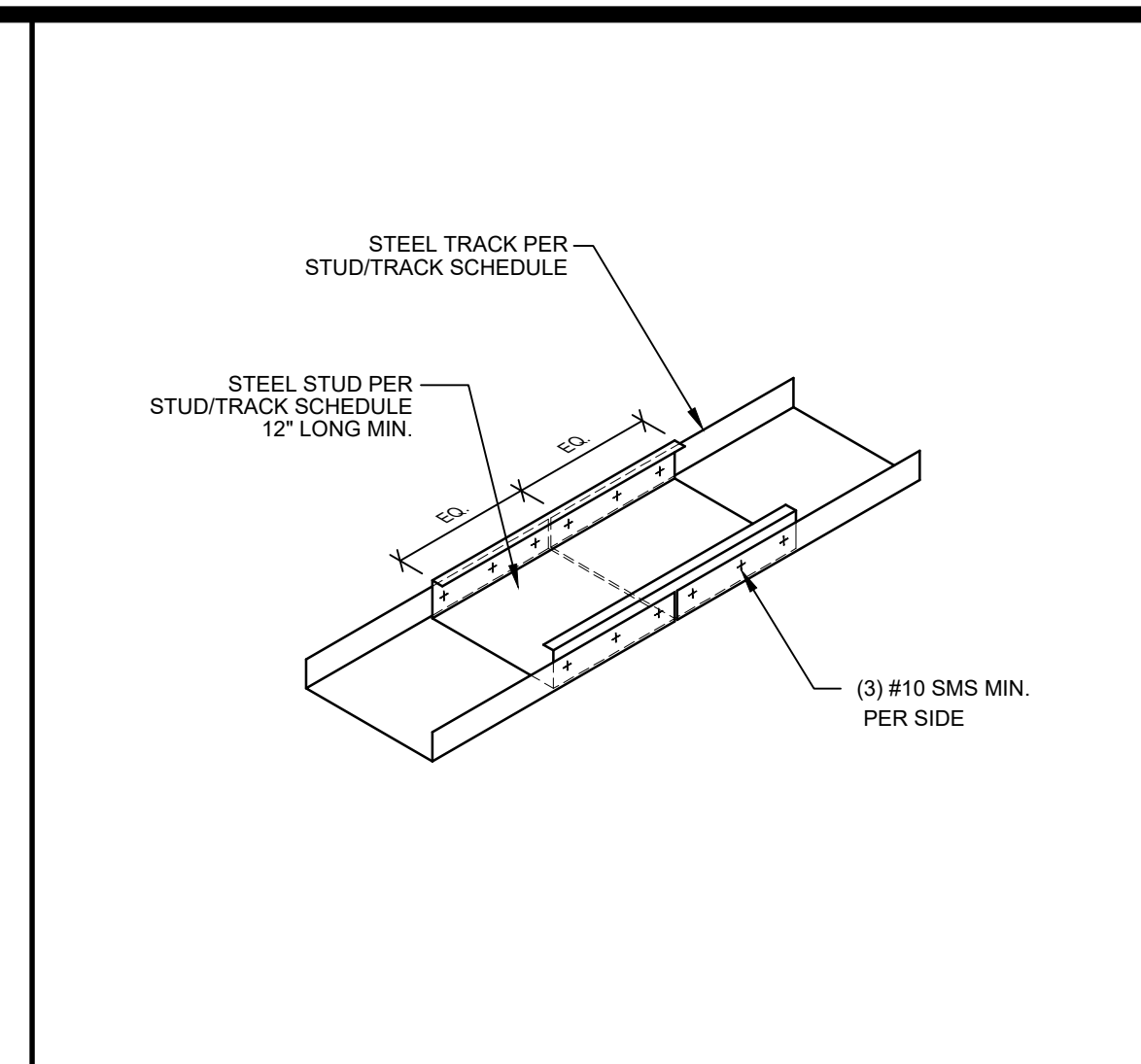
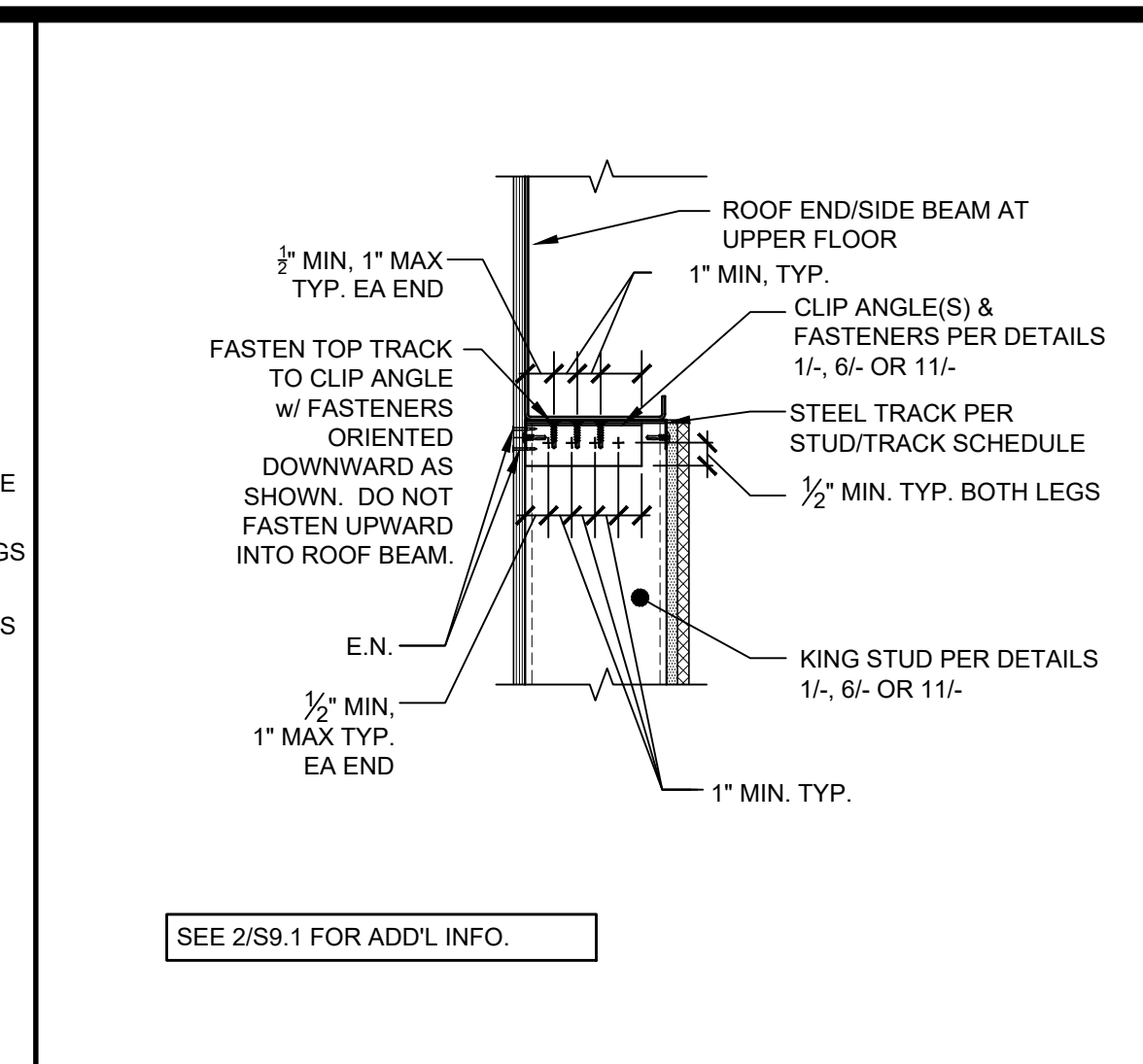
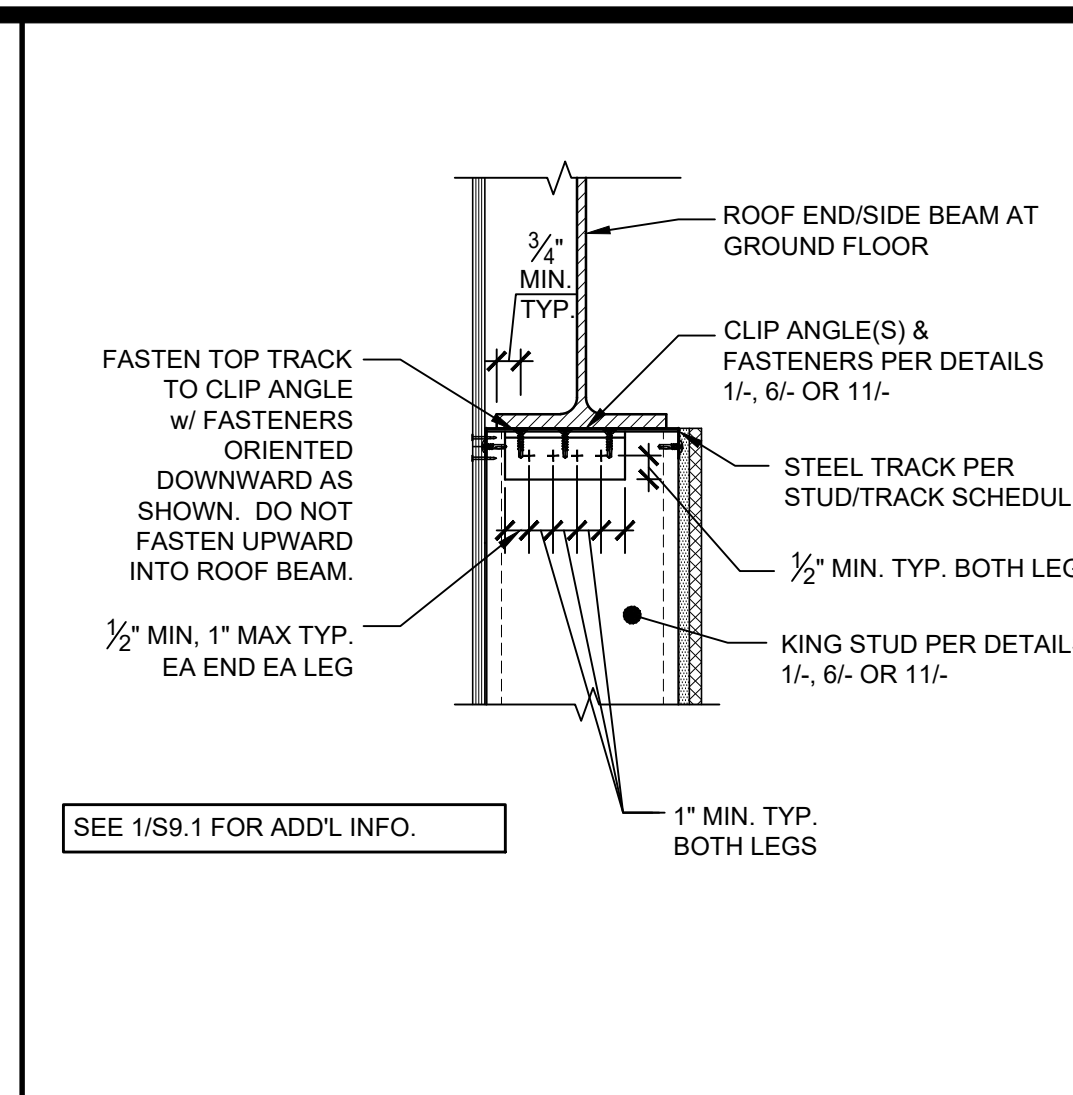
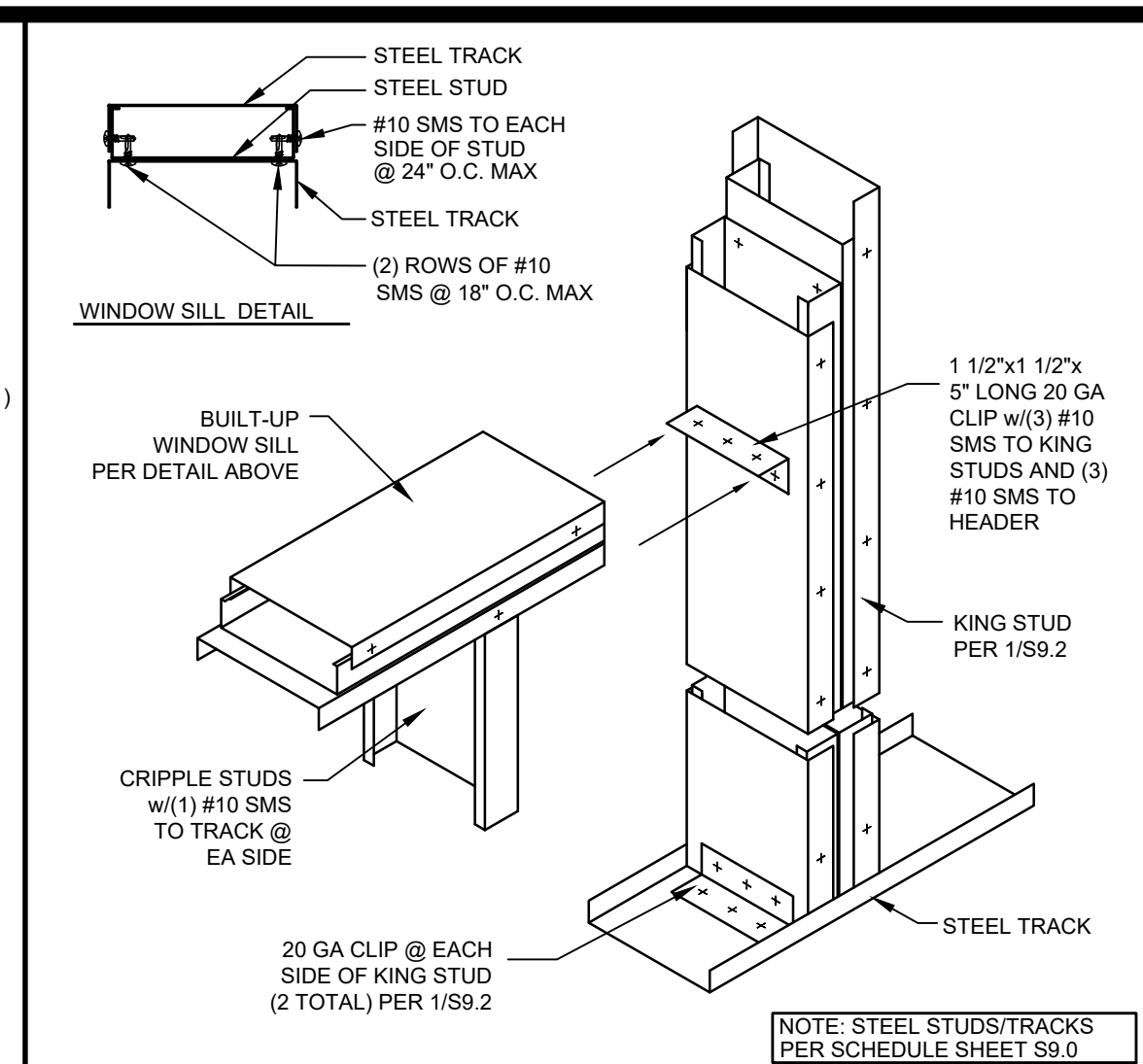
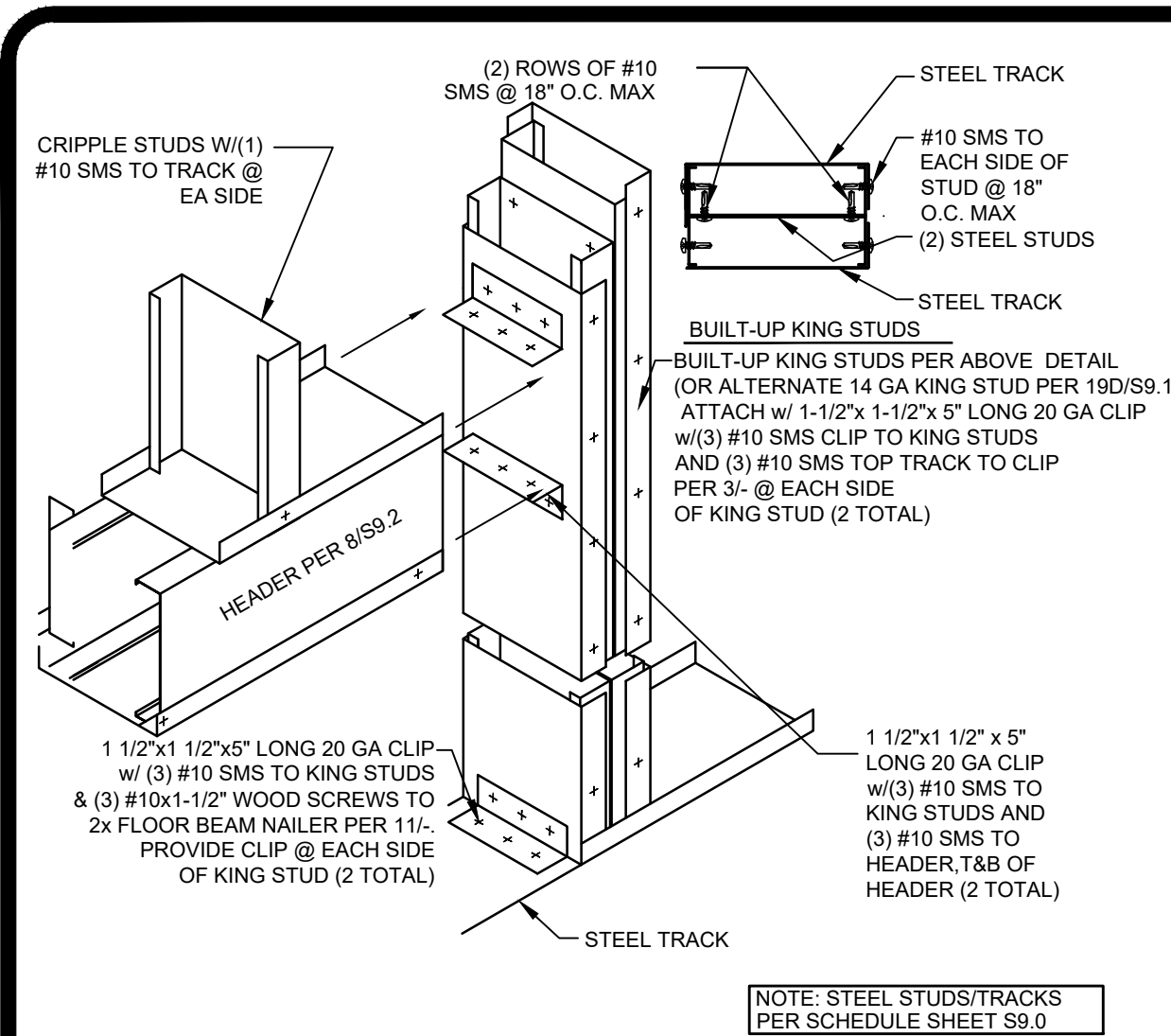
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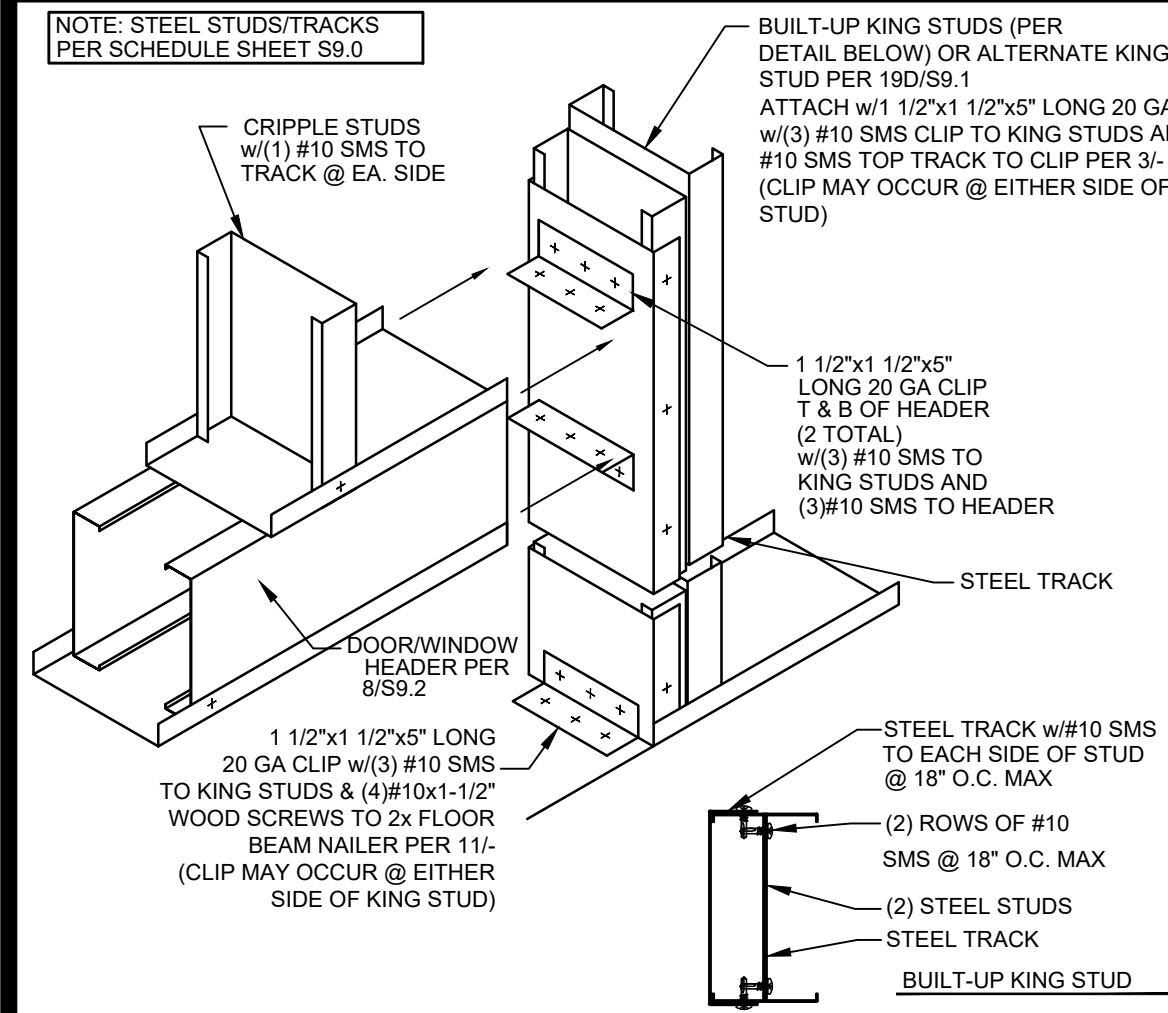
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PROJECT NO.:	1614-20
SHEET TITLE:	WALL FRAMING DETAILS
SHEET NUMBER:	S9.1

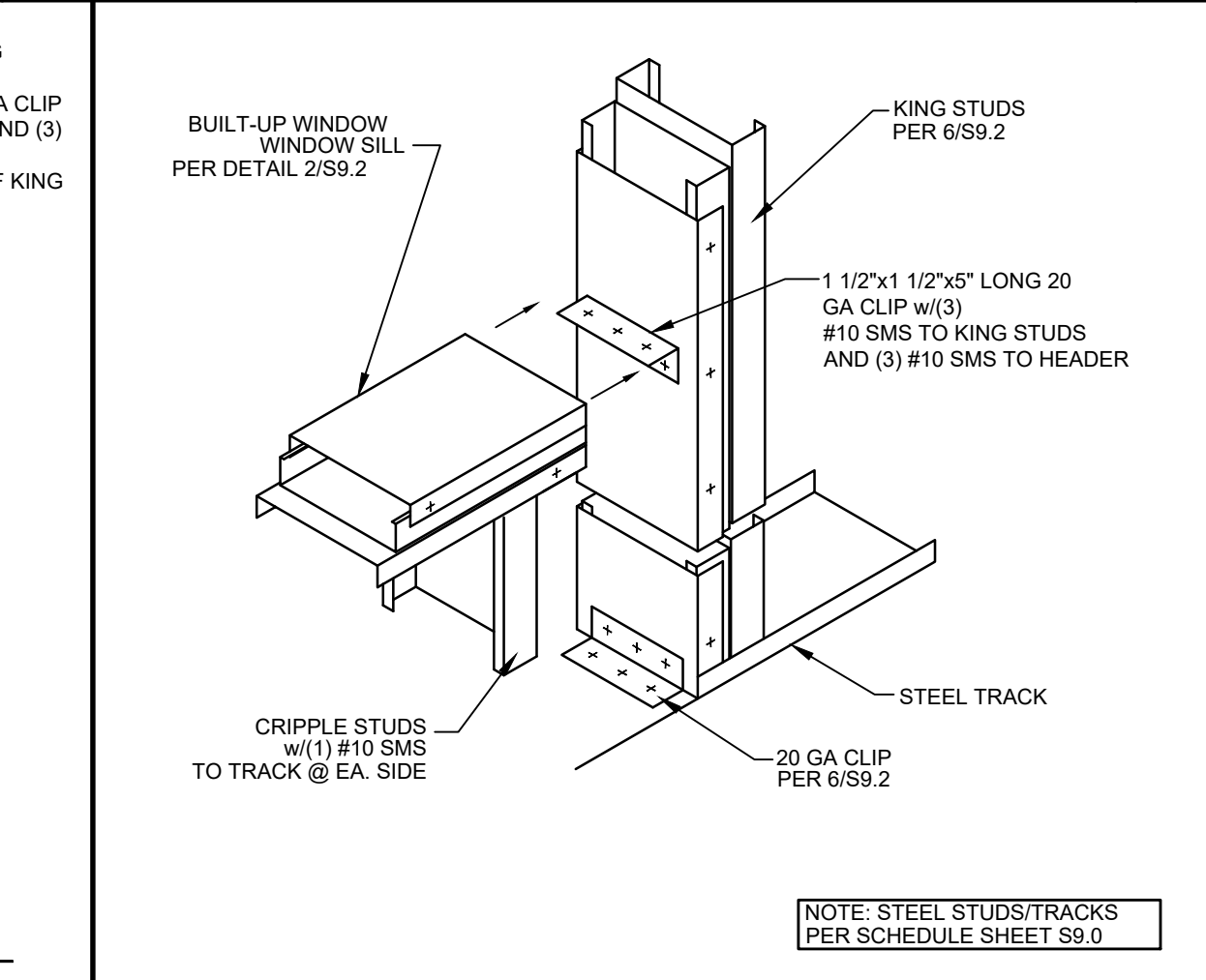
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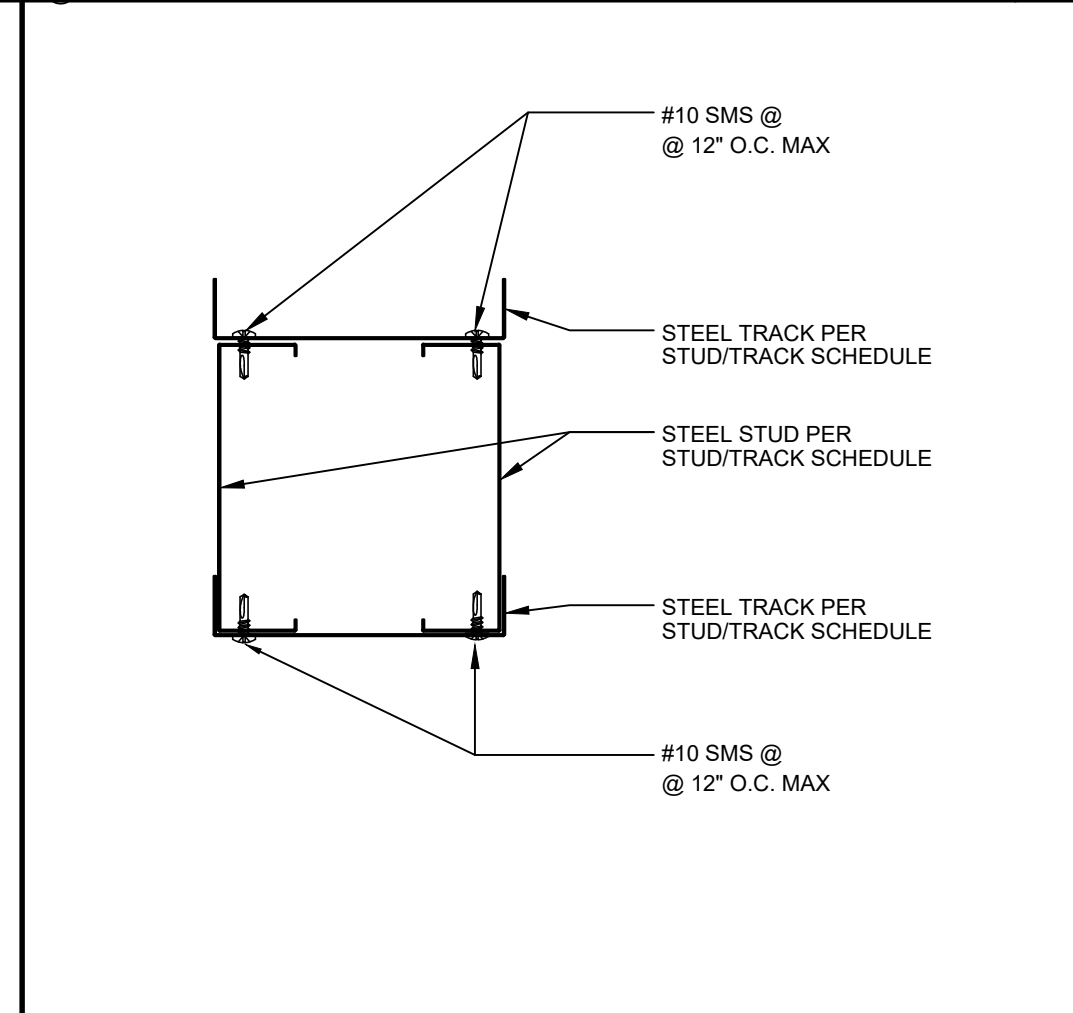
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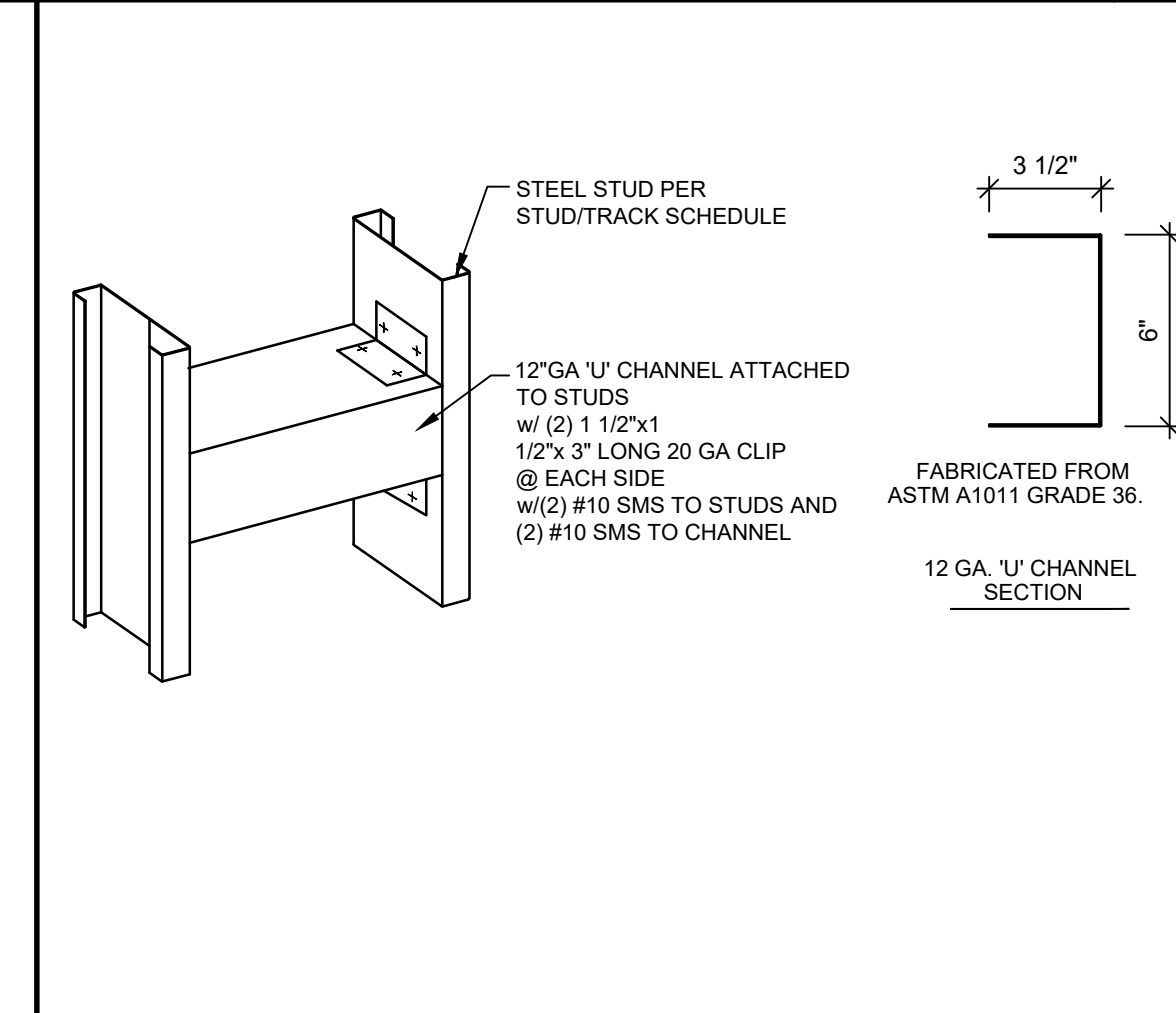
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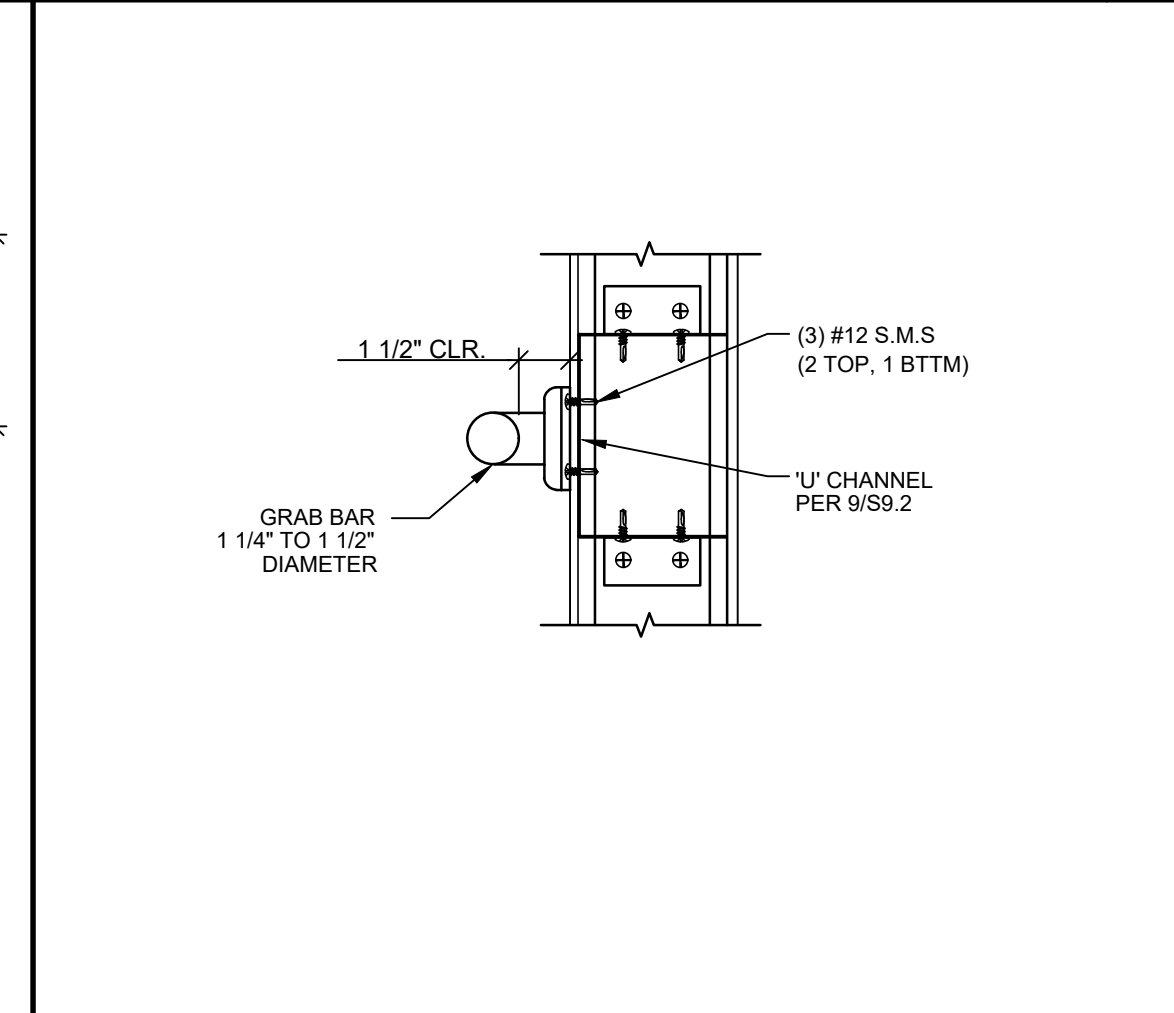
KING STUD TO ROOF BEAM DETAIL @ GROUND FLOOR SCALE: 1-1/2" = 1'-0" 3



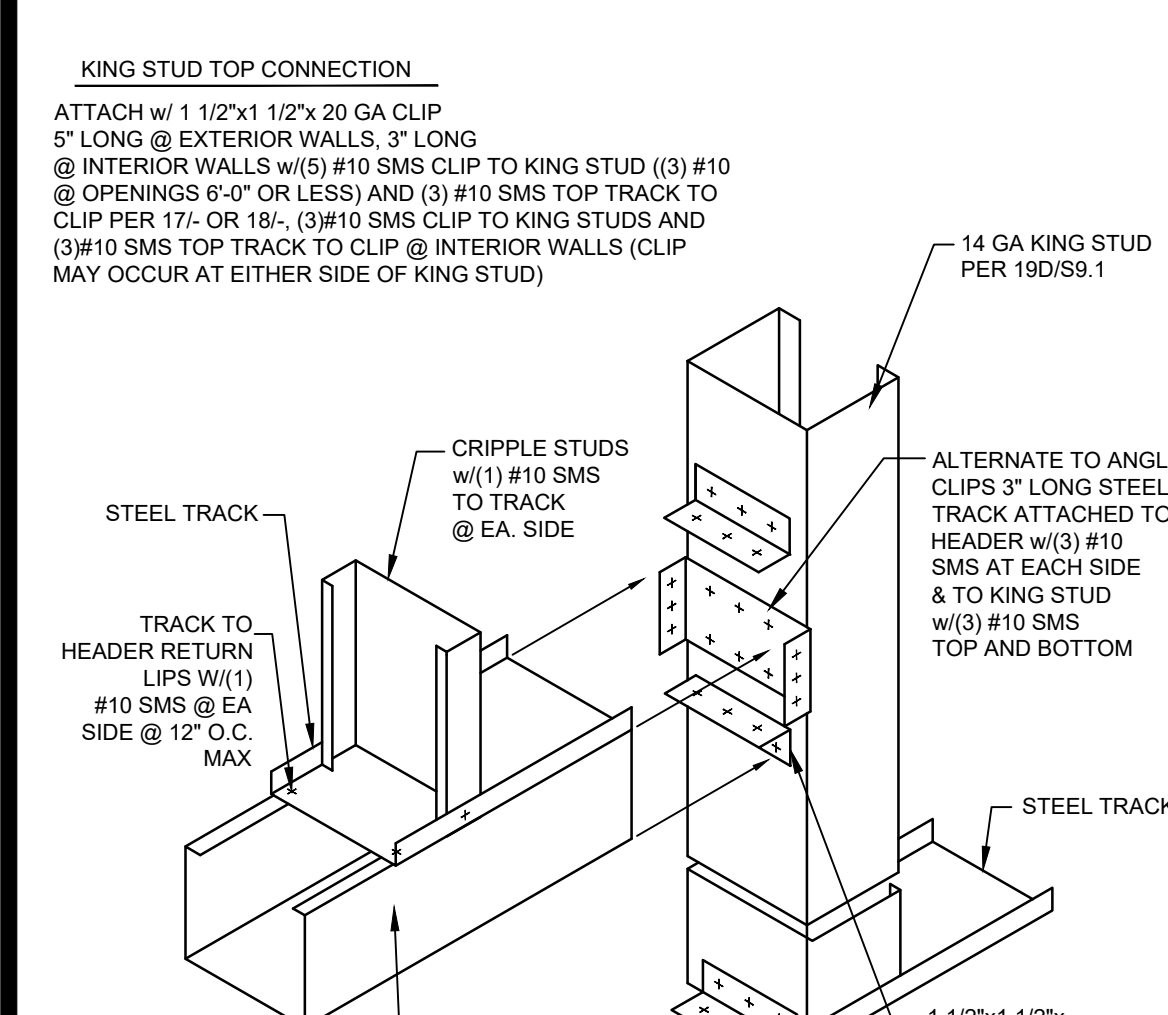
KING STUD TO ROOF BEAM DETAIL @ UPPER FLOOR SCALE: 1-1/2" = 1'-0" 4



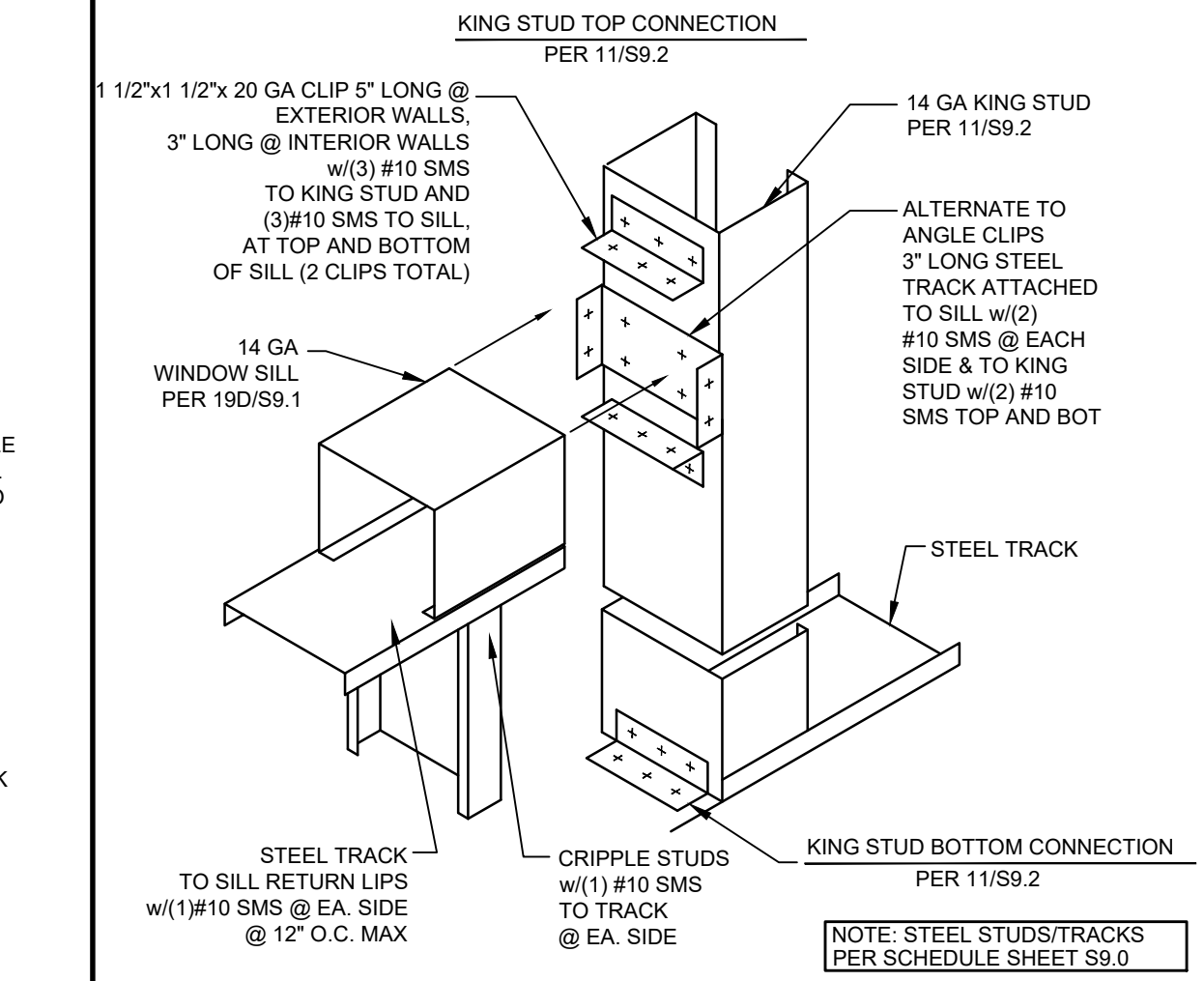
TRACK SPLICE DETAIL SCALE: N.T.S. 5



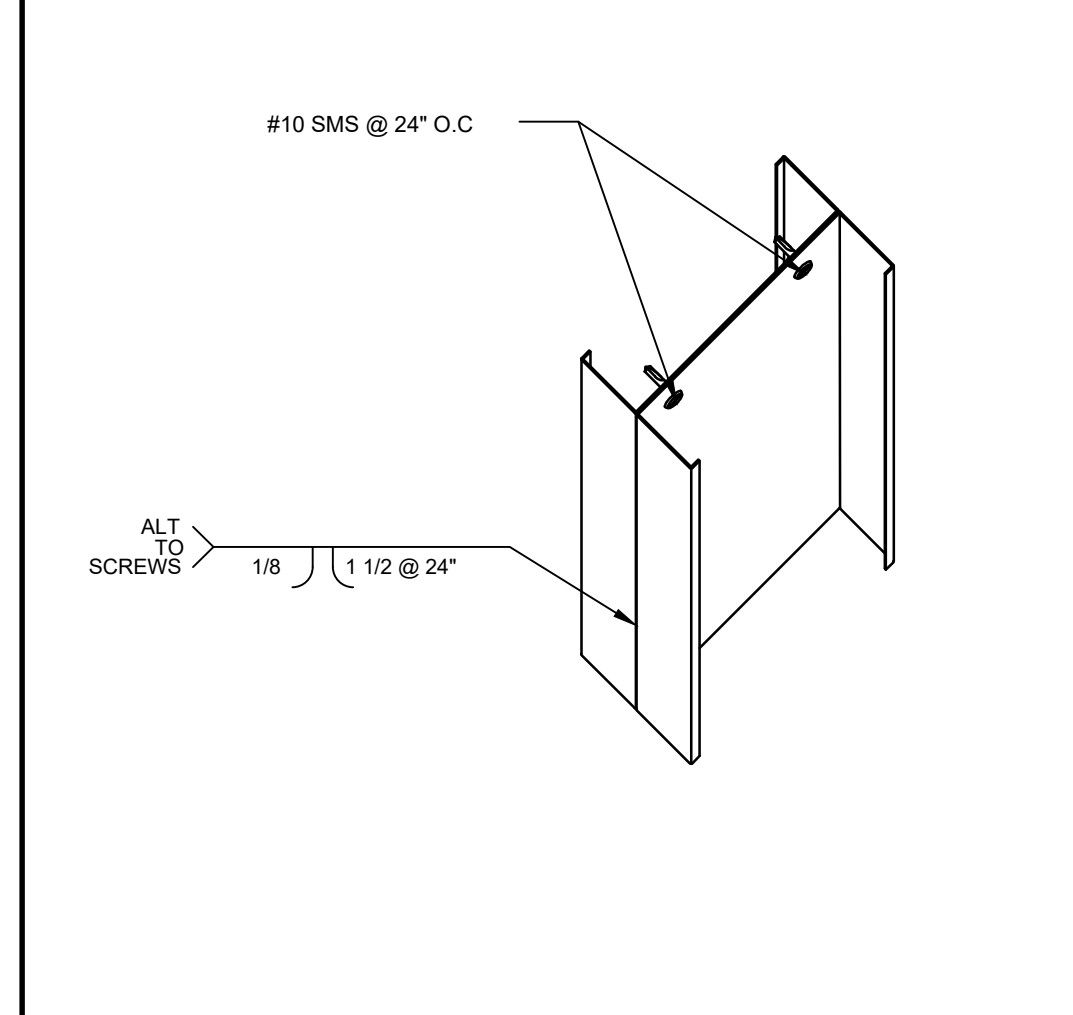
DOOR/WINDOW HEADER DETAIL (6'-0" OR LESS OPENINGS (EXTERIOR WALLS)) SCALE: N.T.S. 6



WINDOW SILL DETAIL (6'-0" OR LESS OPENINGS (EXTERIOR WALLS)) SCALE: N.T.S. 7



DOOR / HEADER DETAIL SCALE: N.T.S. 8



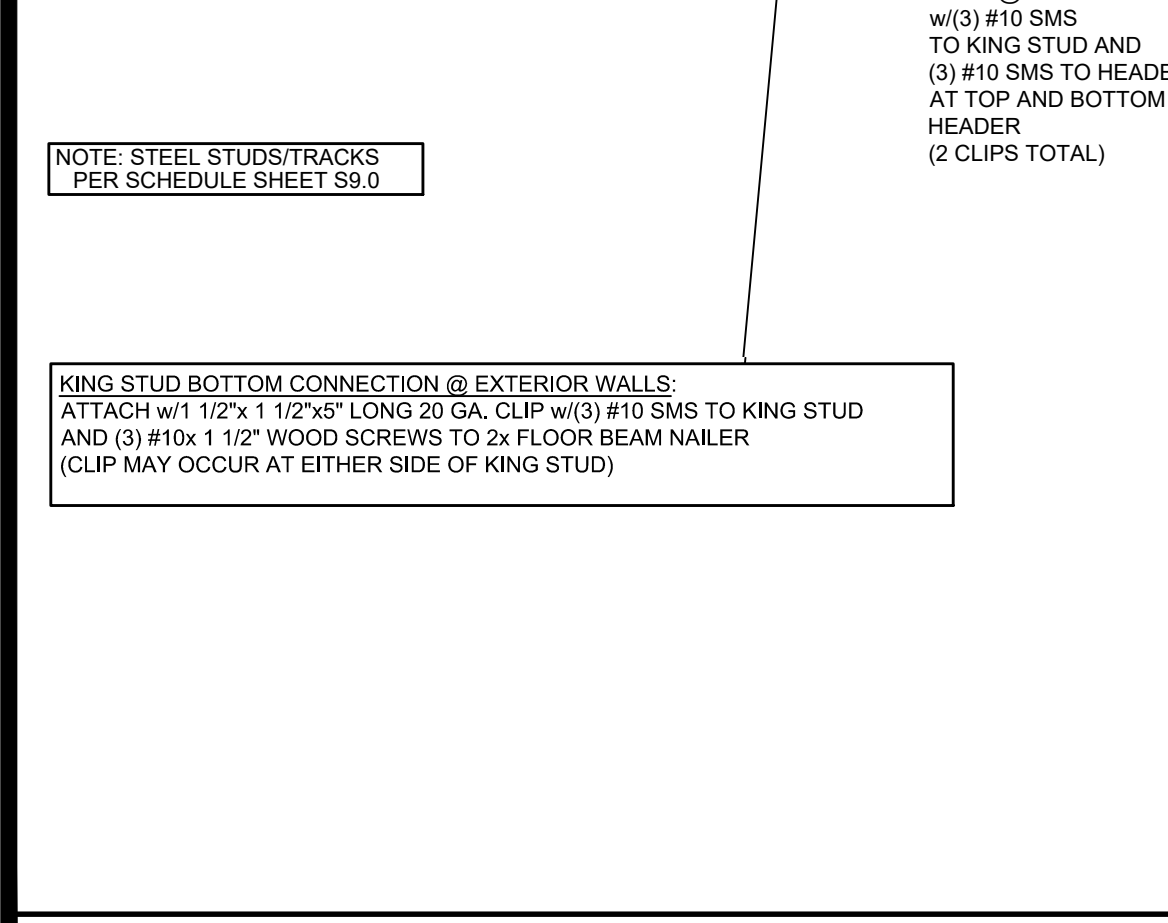
GRAB BAR BLOCKING DETAIL SCALE: N.T.S. 9



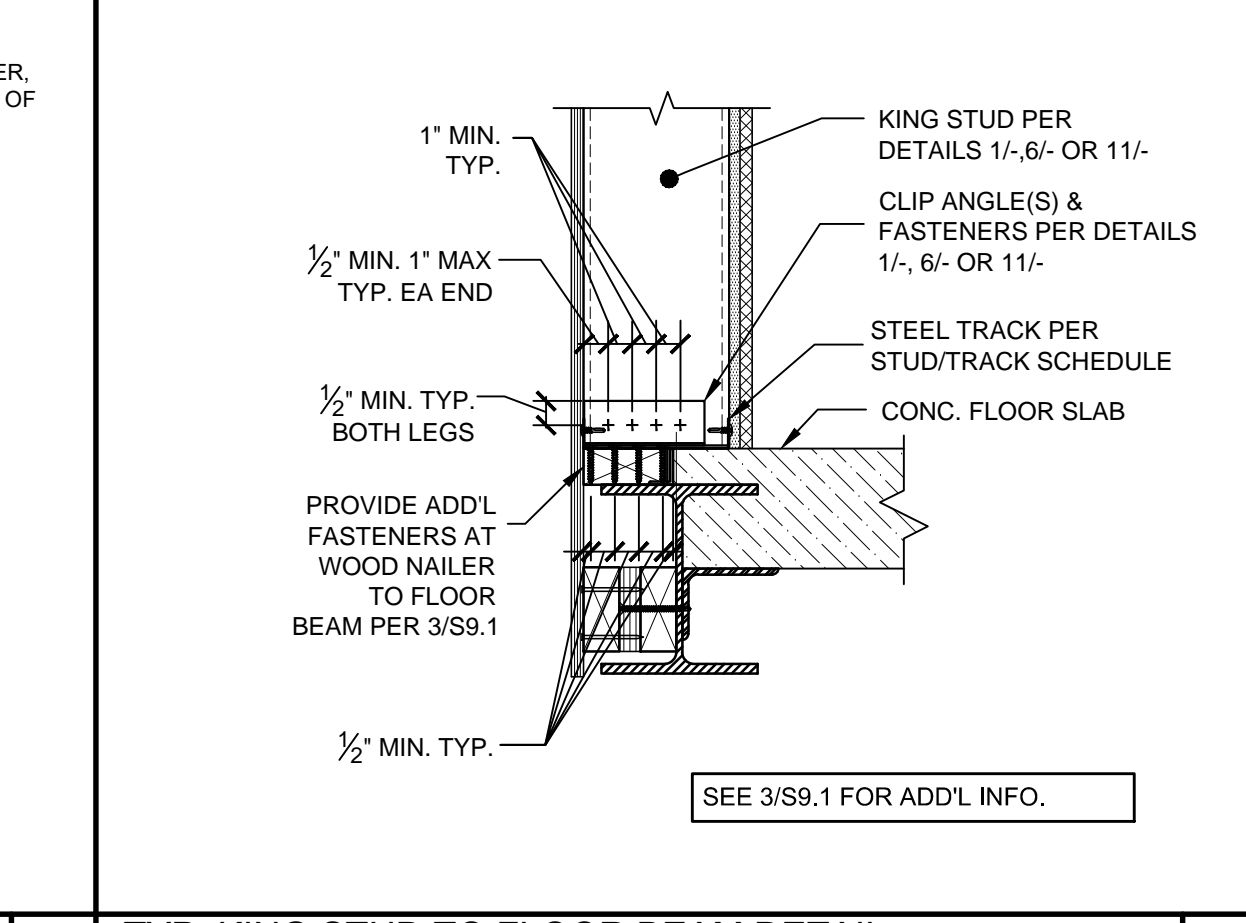
GRAB BAR ATTACHMENT SCALE: N.T.S. 10



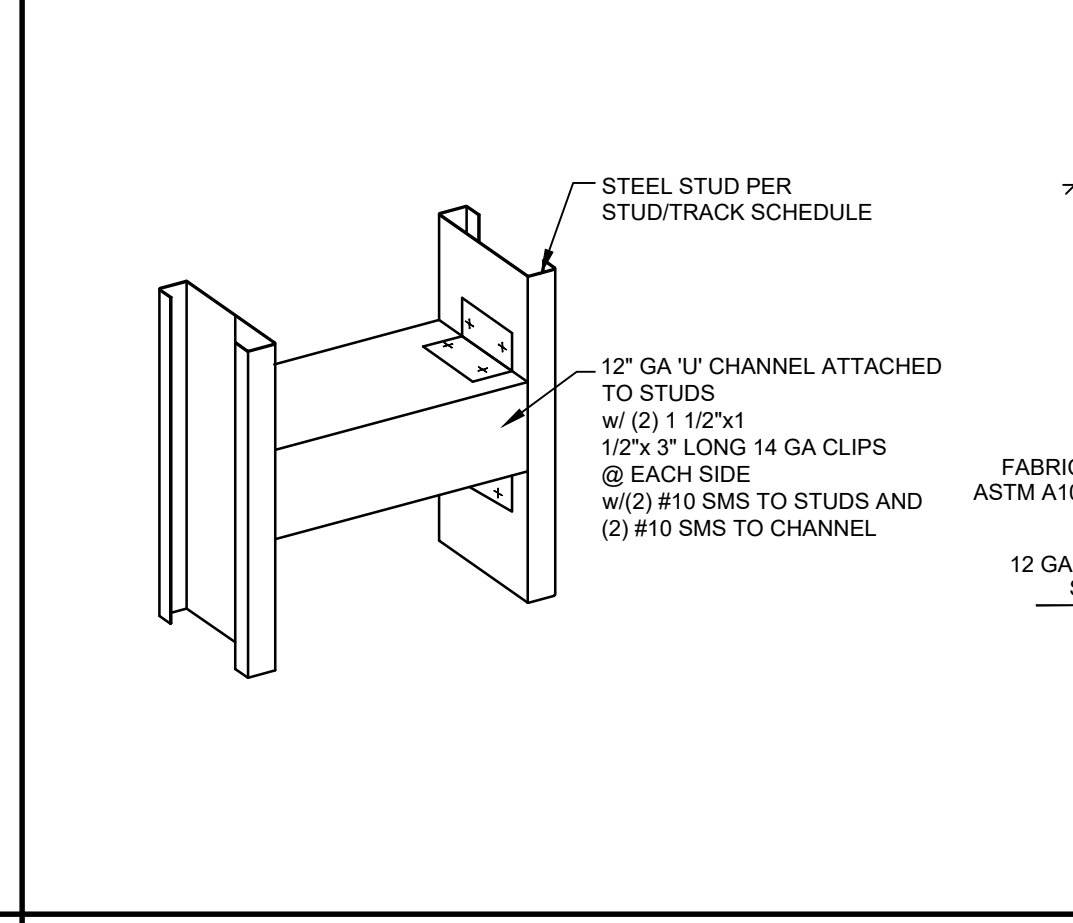
ALT. WINDOW SILL DETAIL (10'-0" MAX OPENINGS (EXTERIOR OR INTERIOR WALLS)) SCALE: N.T.S. 12



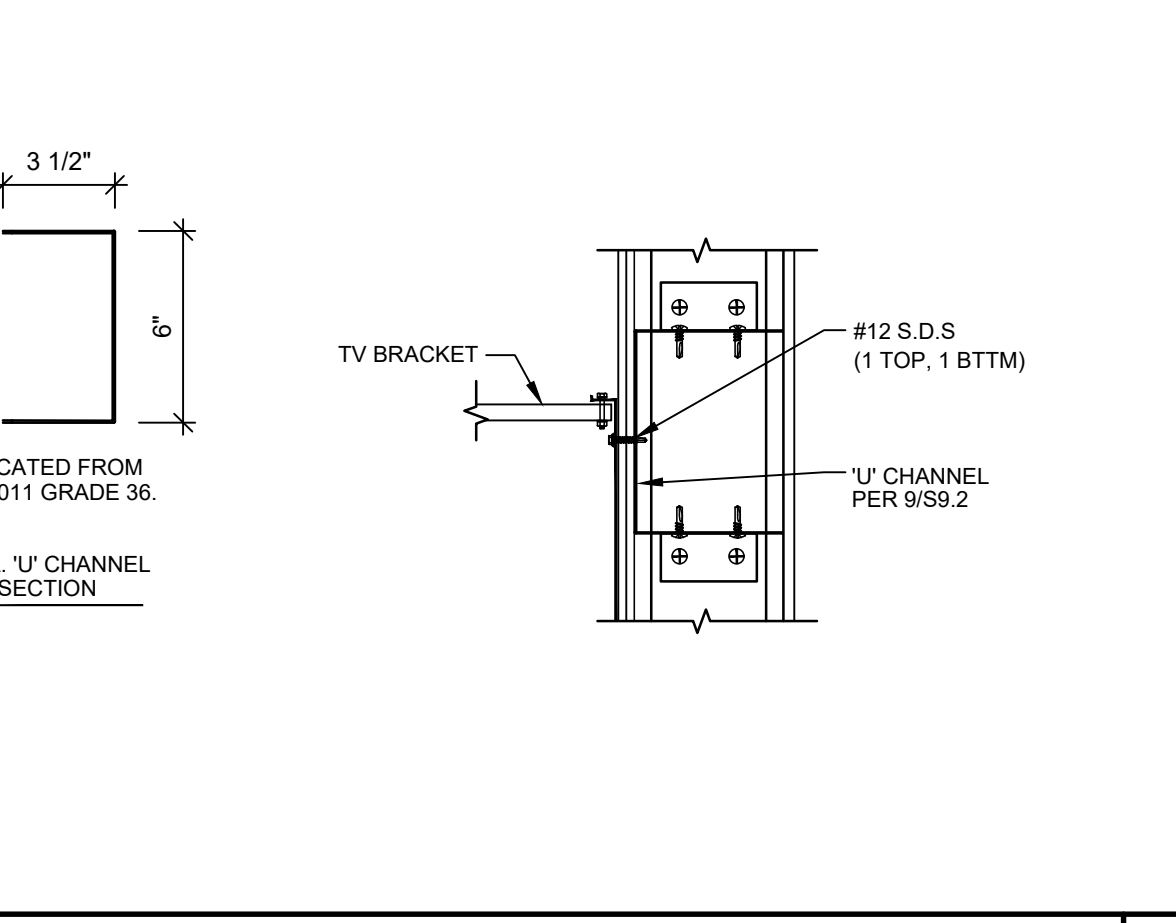
DOUBLE STUD CONNECTION DETAIL (6'-0" OR LESS OPENINGS (INTERIOR WALLS)) SCALE: N.T.S. 13



NOT USED 15



NOT USED 16



NOT USED 19



ALT. DOOR/WINDOW HEADER DETAIL (10'-0" MAX OPENINGS (EXTERIOR OR INTERIOR WALLS)) SCALE: N.T.S. 11



TYP. KING STUD TO FLOOR BEAM DETAIL SCALE: 1-1/2" = 1'-0" 17



MONITOR BRACKET BLOCKING DETAIL SCALE: N.T.S. 13



NOT USED 19



NOT USED 20



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(2) 72'x40' 2 STORY CLASSROOM BUILDINGS

SITE SPECIFIC PROJECT NAME

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GLENOAKS  
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD ON PC

REGISTERED ARCHITECT  
PATRICK CANFIELD  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
STRUCTURAL  
MANNY D. FROST  
No. S3380  
STATE OF CALIFORNIA

09/20/2021  
RST#20203

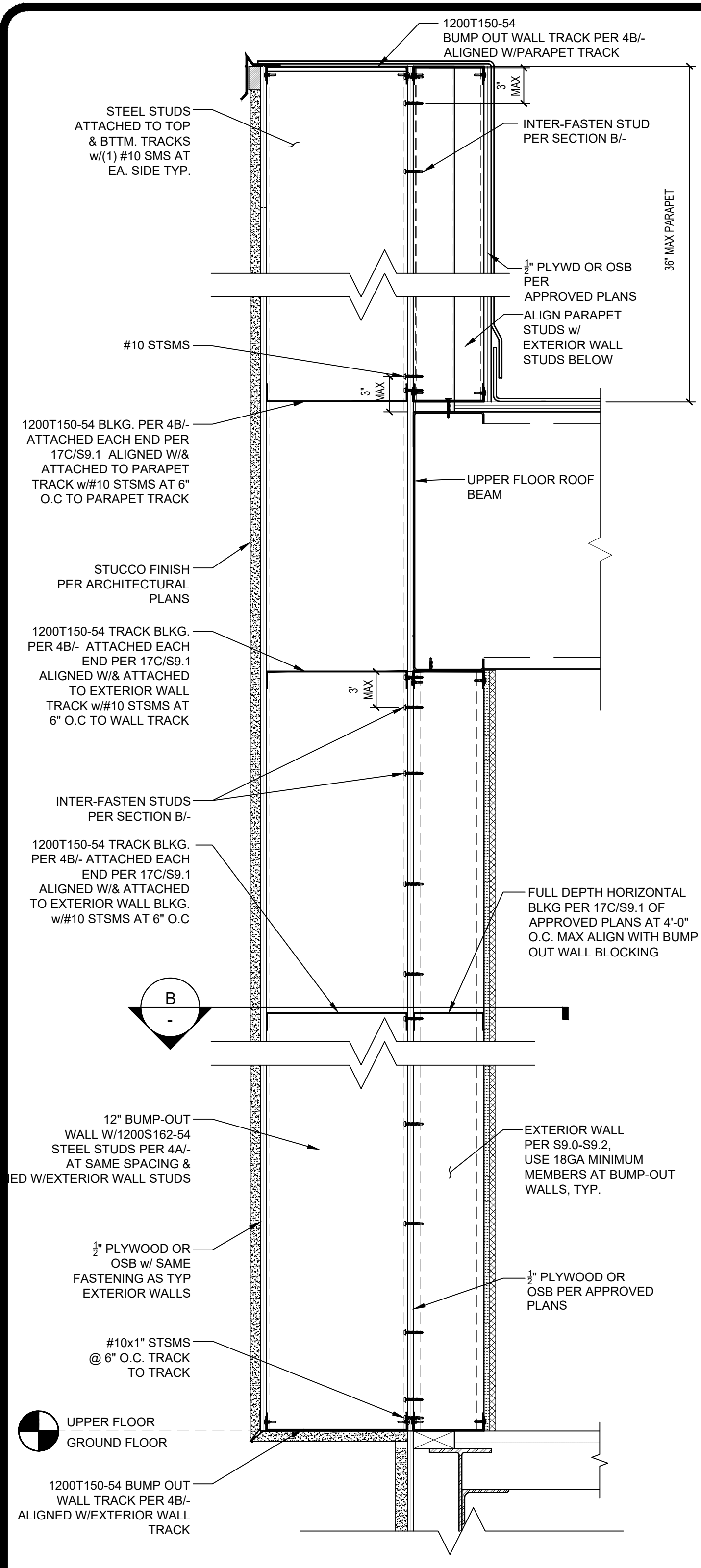
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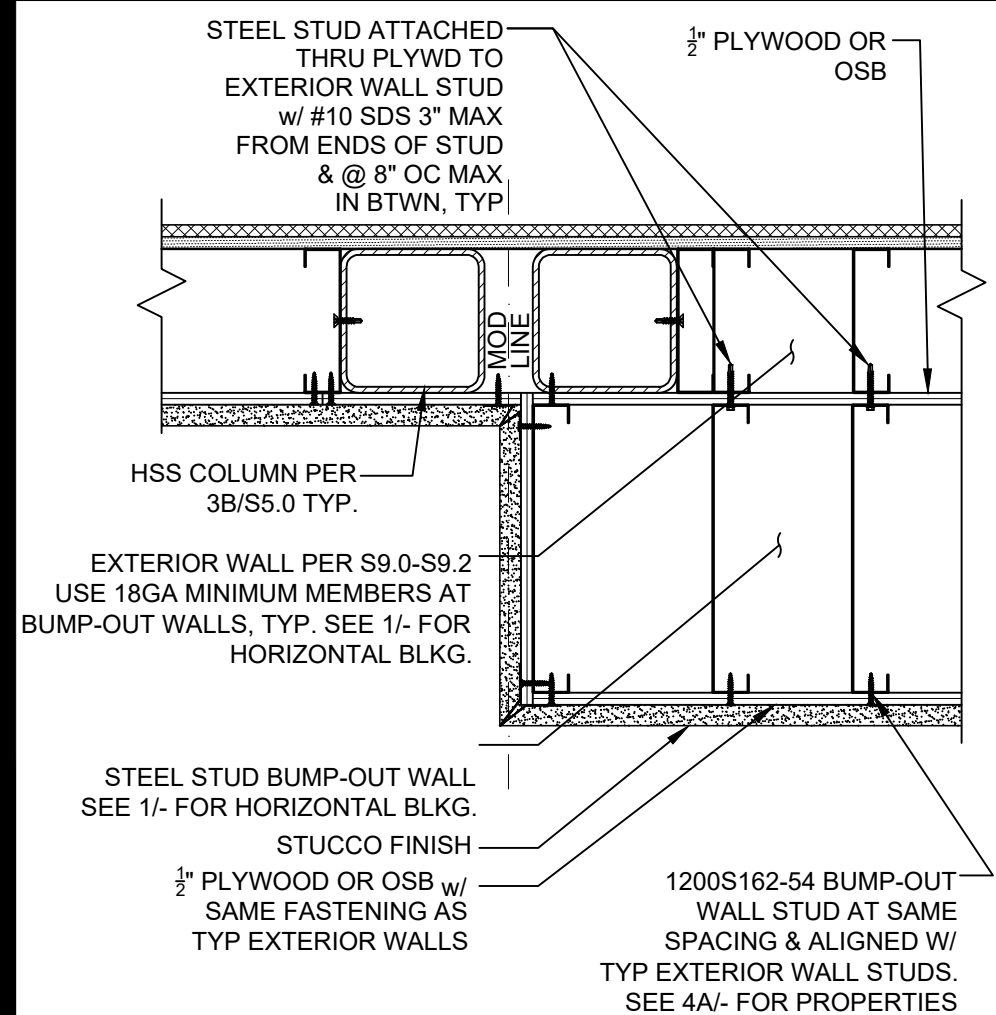
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SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20  
SHEET TITLE: WALL FRAMING DETAILS  
SHEET NUMBER:

**S9.2**

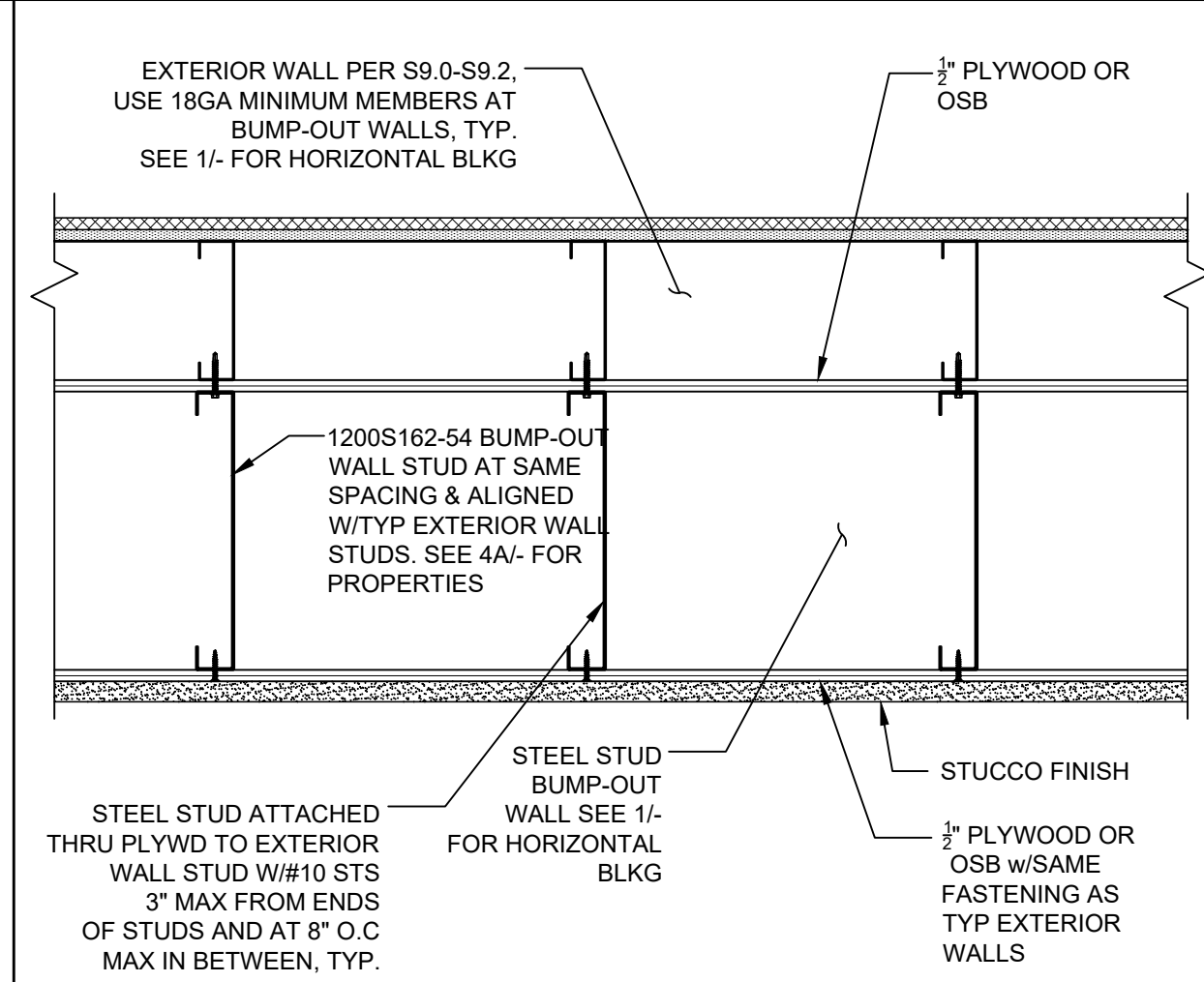
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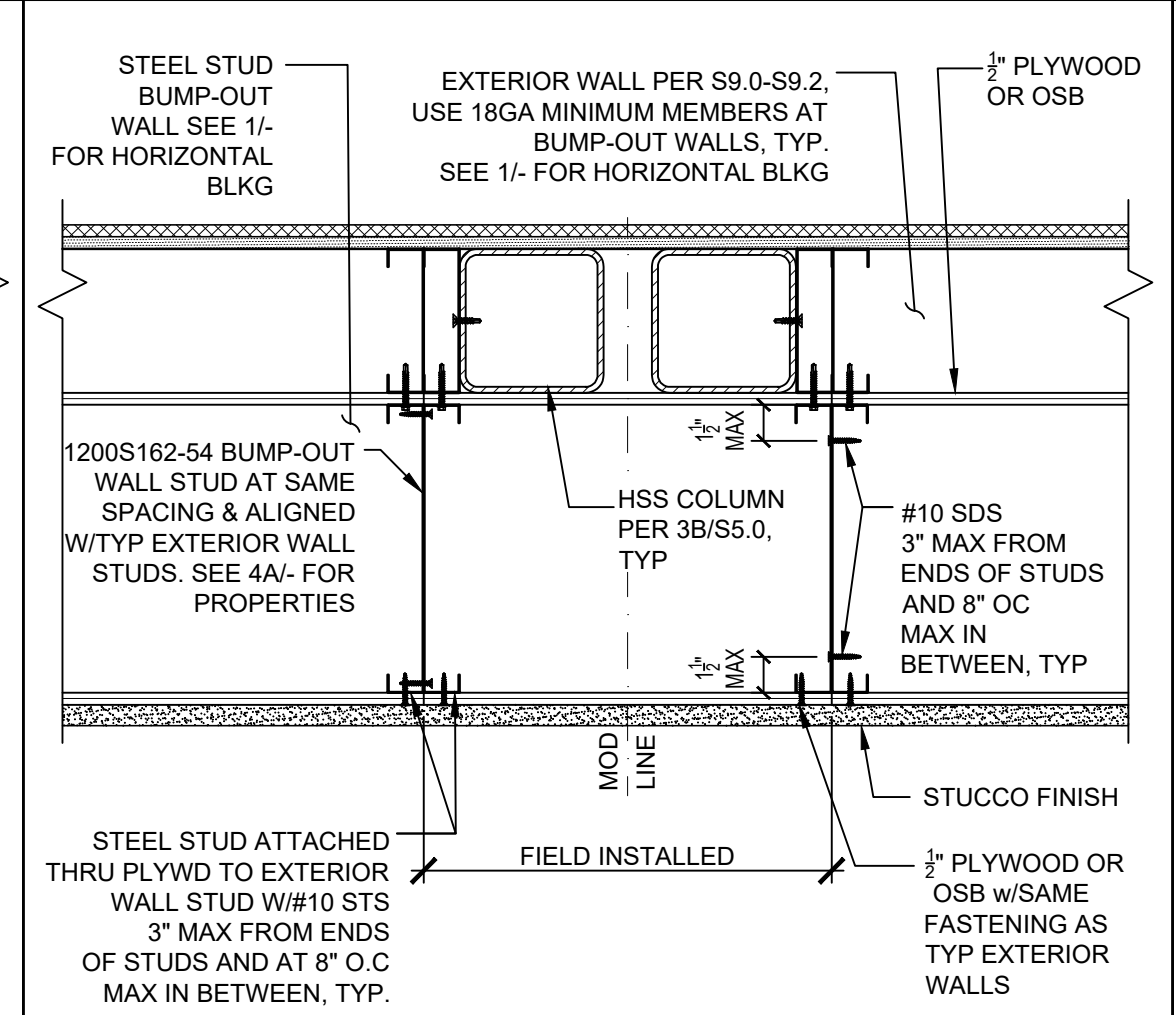
TYP. BUMPOUT WALL SECTION SCALE: 1-1/2" = 1'-0" 1 NOT USED



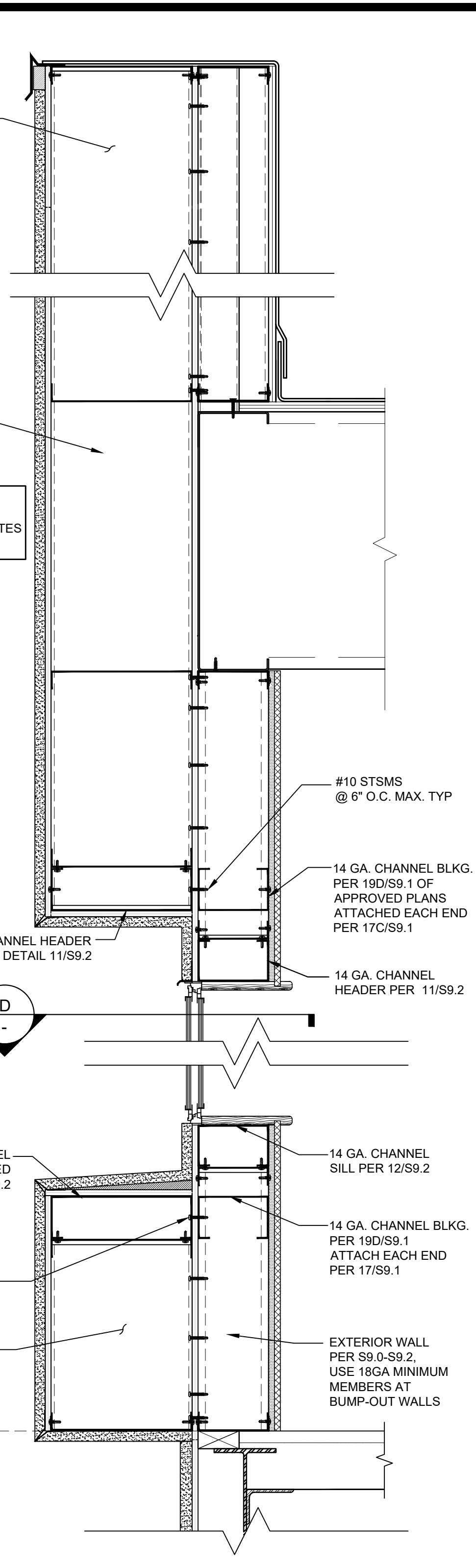
BUMP-OUT WALL SECTION SCALE: 1-1/2" = 1'-0" A



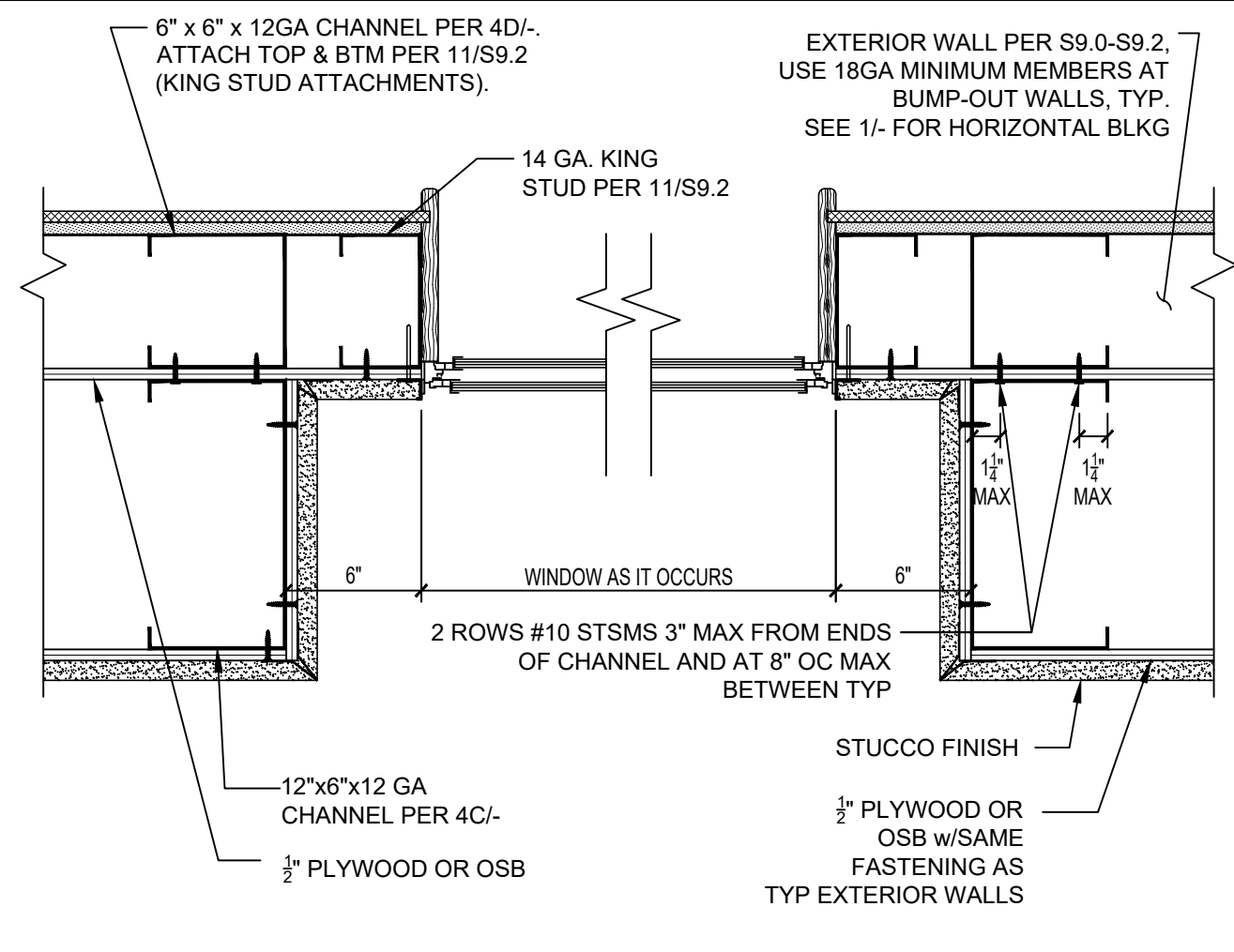
BUMP-OUT WALL SECTION SCALE: 1-1/2" = 1'-0" B



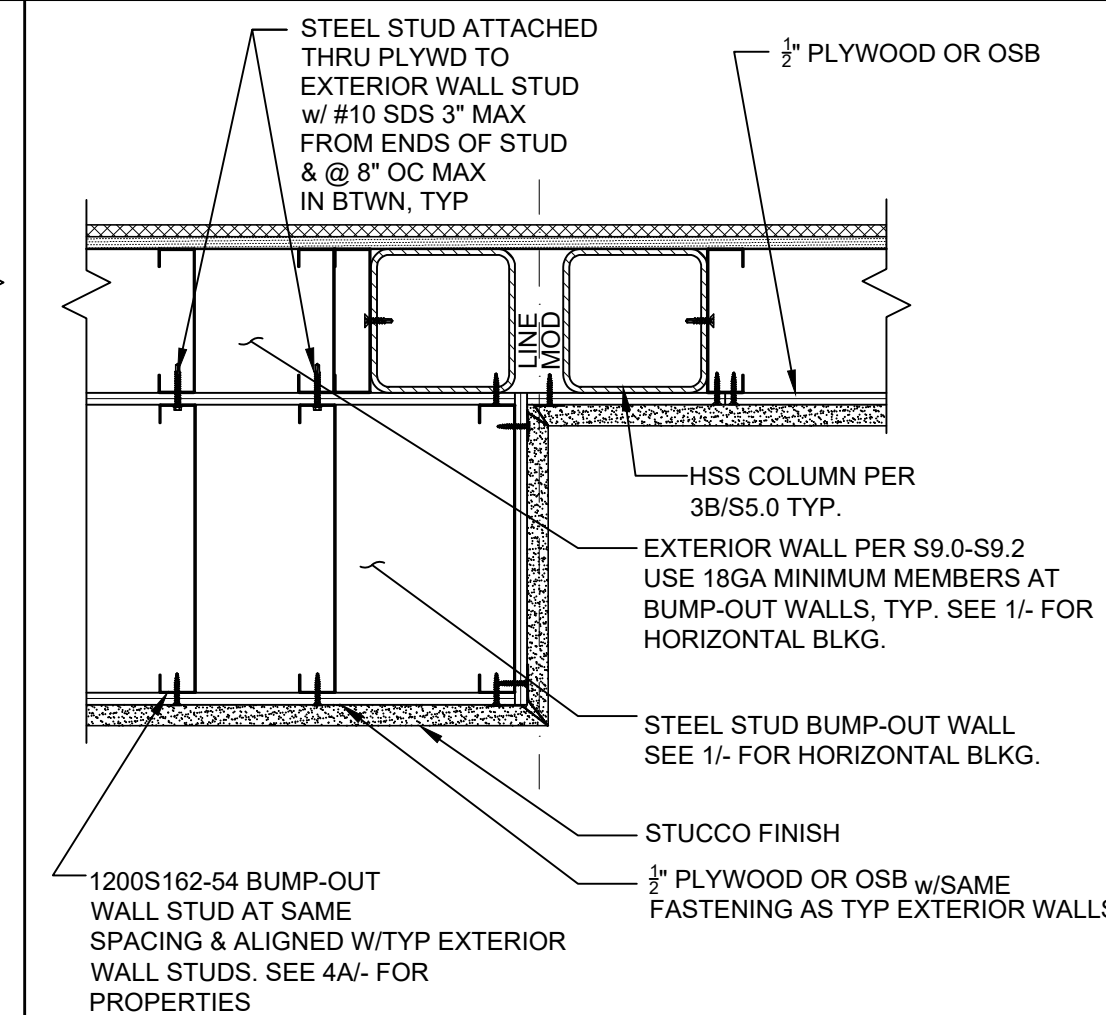
BUMP-OUT WALL SECTION SCALE: 1-1/2" = 1'-0" C



BUMPOUT WALL SECTION @ WINDOW SCALE: 1-1/2" = 1'-0" 3 NOT USED



BUMP-OUT WALL SECTION SCALE: 1-1/2" = 1'-0" D



BUMP-OUT WALL SECTION SCALE: 1-1/2" = 1'-0" E

NOTE: REFER TO SECTION 1/- FOR TYPICAL BUMPOUT WALL NOTES AND DETAILS.

Section	Member	Properties
A	1200S162-54 STUD (12" x 16 GA)	A = 0.896 IN <sup>2</sup> I <sub>x</sub> = 15.730 IN <sup>4</sup> S <sub>x</sub> = 2.622 IN <sup>3</sup> T = 16 GA 0.0538 IN MIN. 0.0566 IN DESIGN FABRICATED FROM ASTM A653 GRADE 50.
B	1200T150-54 TRACK (12" x 16 GA)	A = 0.848 IN <sup>2</sup> I <sub>x</sub> = 14.378 IN <sup>4</sup> S <sub>x</sub> = 2.357 IN <sup>3</sup> T = 16 GA 0.0538 IN MIN. 0.0566 IN DESIGN FABRICATED FROM ASTM A653 GRADE 50.
C	12 GA CHANNEL (12" x 6" 12 GA)	A = 2.517 IN <sup>2</sup> I <sub>x</sub> = 59.940 IN <sup>4</sup> S <sub>x</sub> = 9.989 IN <sup>3</sup> T = 12 GA 0.0966 IN MIN. 0.1017 IN DESIGN FABRICATED FROM ASTM A1011 GRADE 36.
D	12 GA CHANNEL (6" x 6" 12 GA)	A = 1.906 IN <sup>2</sup> I <sub>x</sub> = 12.828 IN <sup>4</sup> S <sub>x</sub> = 4.276 IN <sup>3</sup> T = 12 GA 0.0966 IN MIN. 0.1017 IN DESIGN FABRICATED FROM ASTM A1011 GRADE 36.
E	12 GA CHANNEL (12" x 3 1/2" x 12 GA)	A = 2.008 IN <sup>2</sup> I <sub>x</sub> = 41.938 IN <sup>4</sup> S <sub>x</sub> = 6.990 IN <sup>3</sup> T = 12 GA 0.0966 IN MIN. 0.1017 IN DESIGN FABRICATED FROM ASTM A1011 GRADE 36.

STEEL MEMBER PROPERTIES

UNLESS NOTED OTHERWISE, ALL SECTION PROPERTIES ARE GROSS SECTION PROPERTIES

4

SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

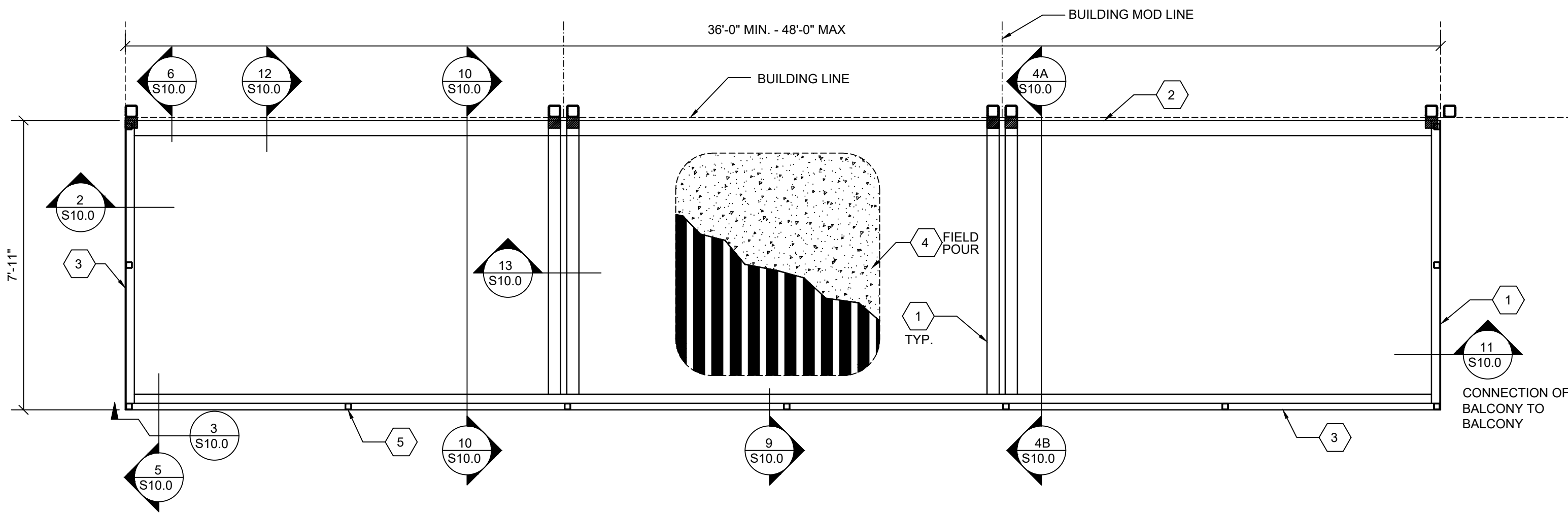
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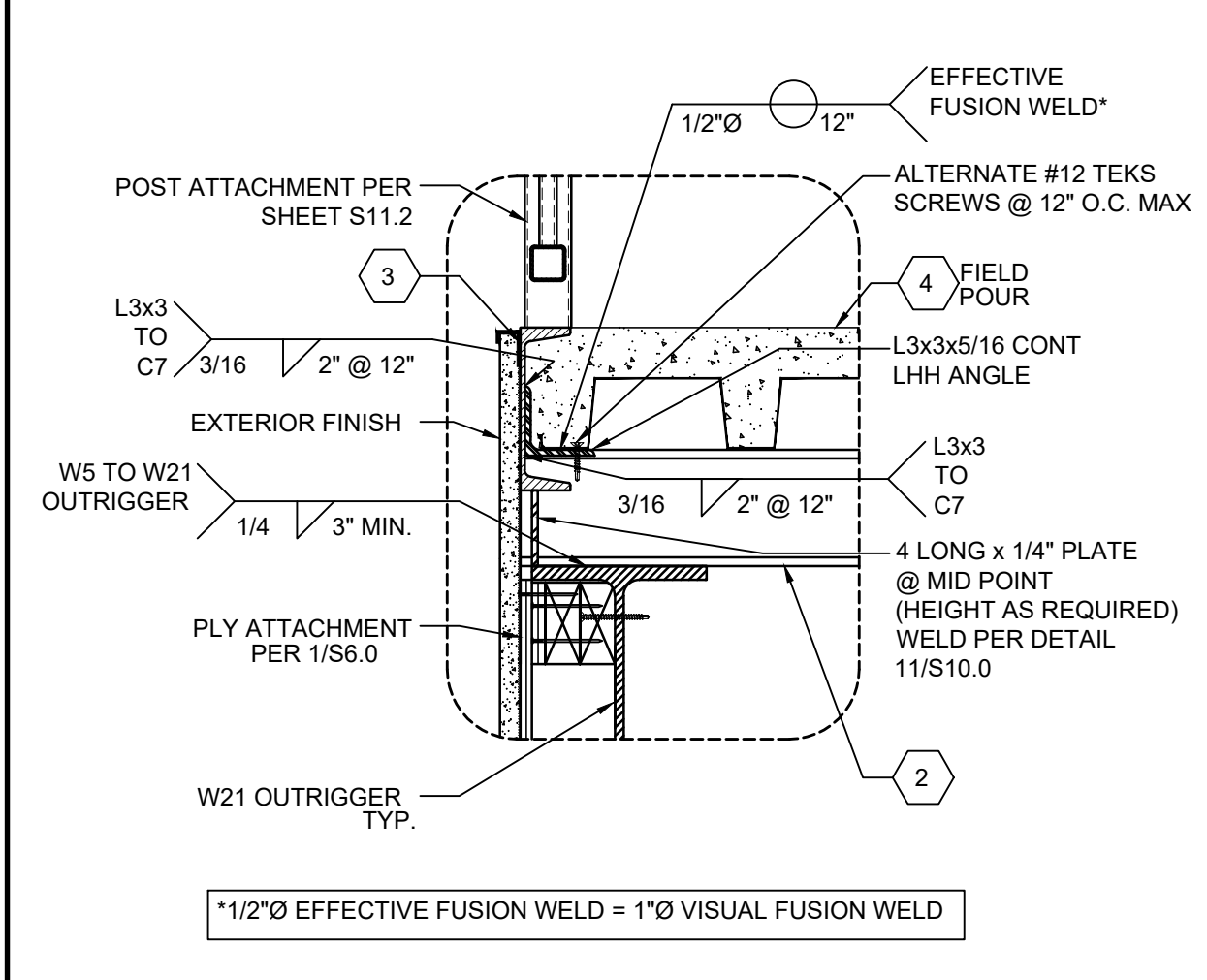
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DATE: 07/05/21  
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SHEET TITLE: **BUMP-OUT WALL DETAILS**  
SHEET NUMBER: **S9.3**

BID SET 10/01/2021



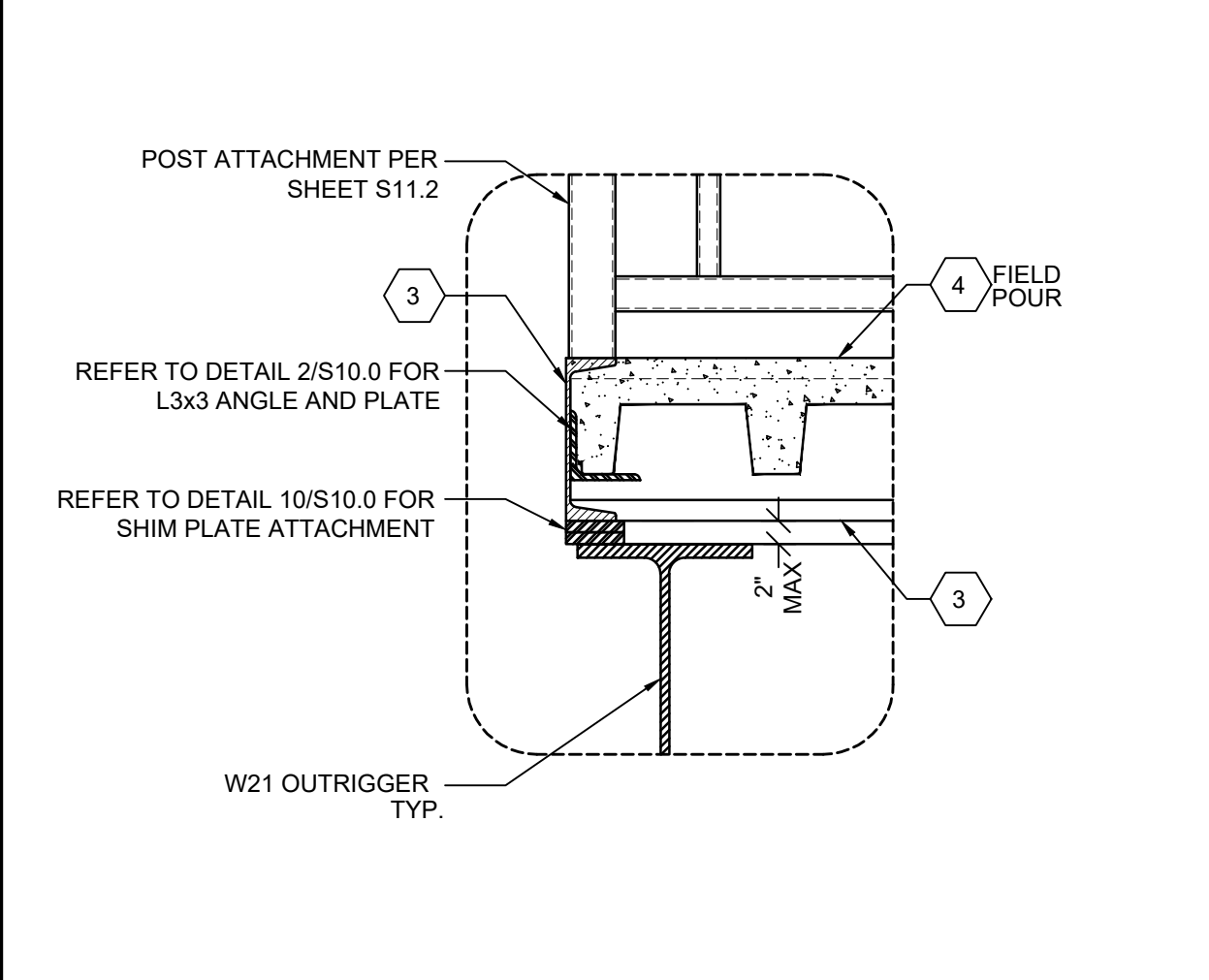
BALCONY FLOOR PLAN

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



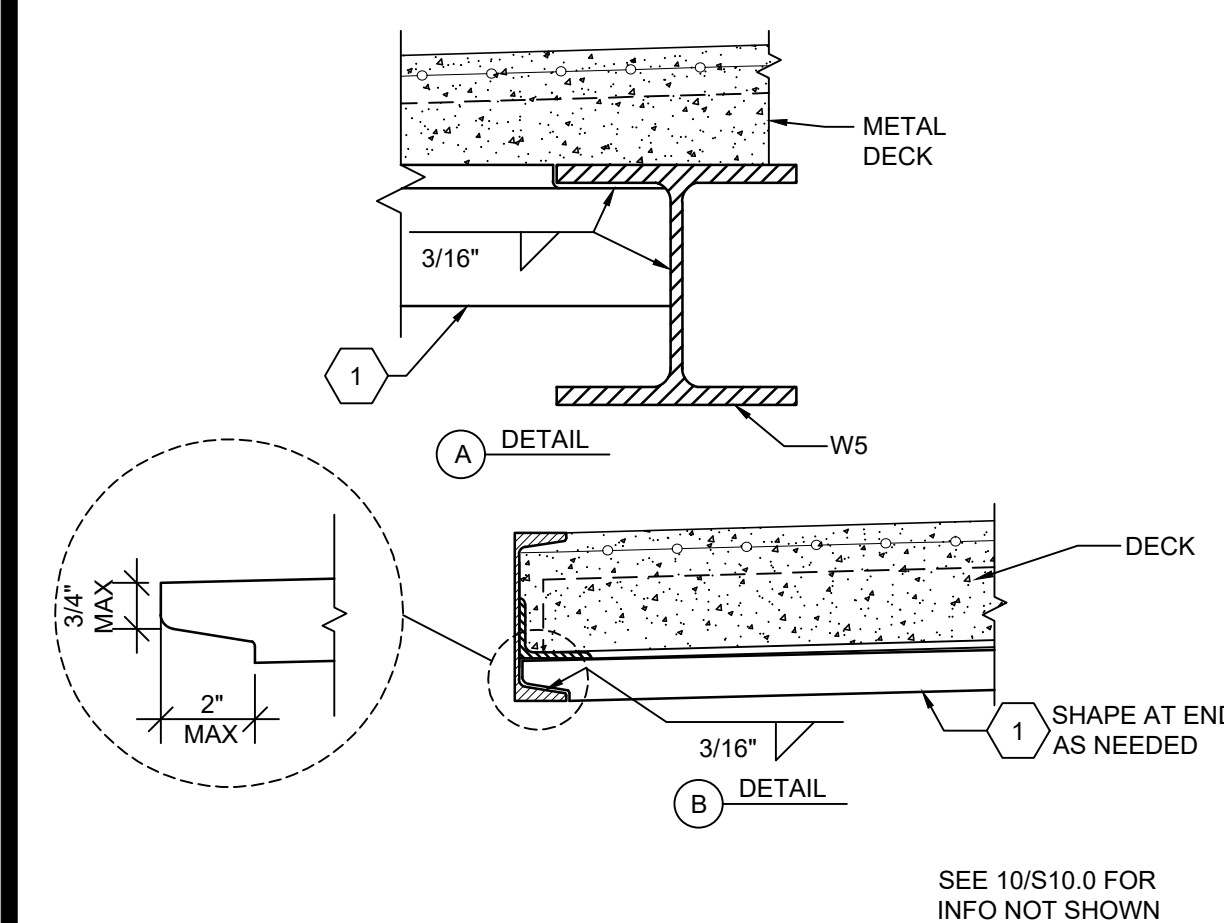
BALCONY CONNECTION @ ENDS

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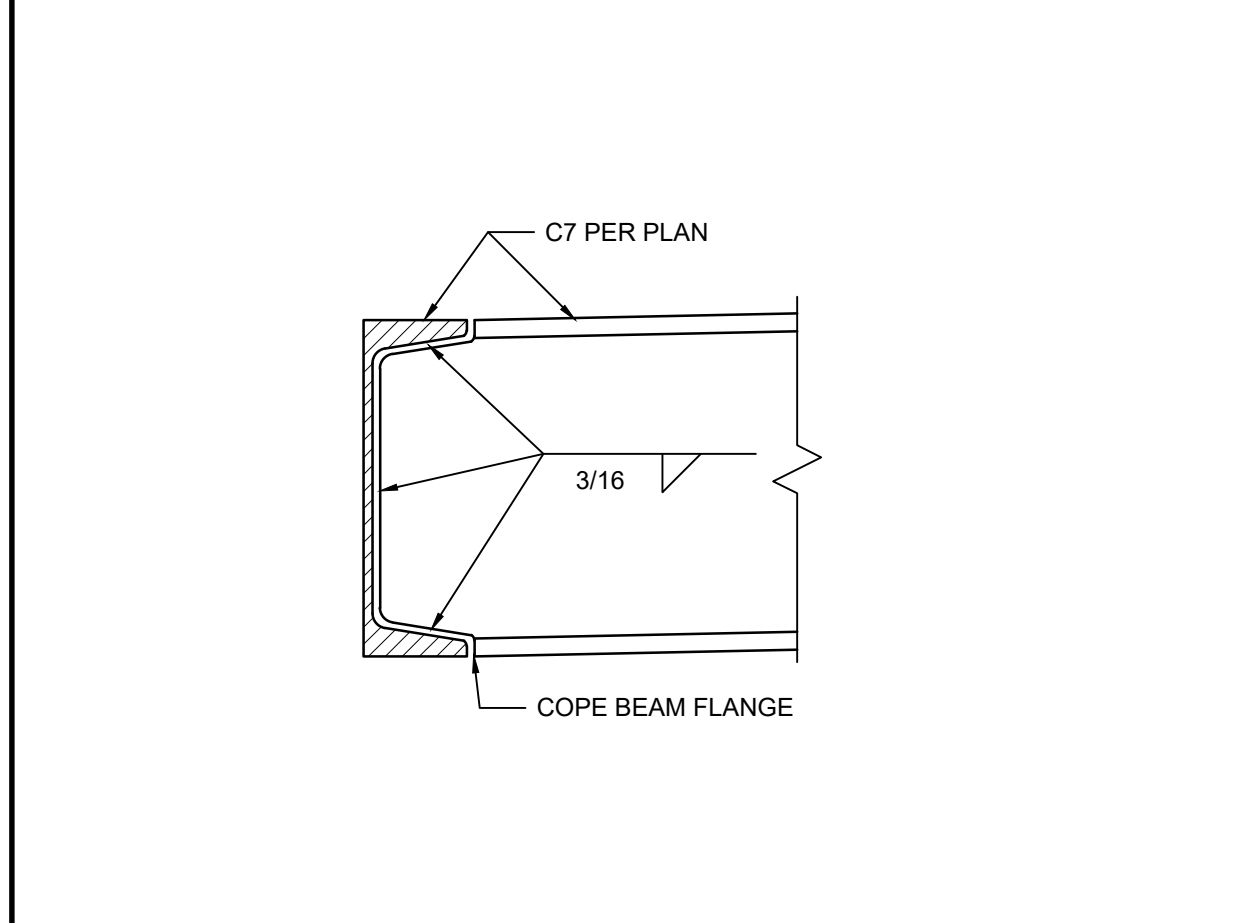
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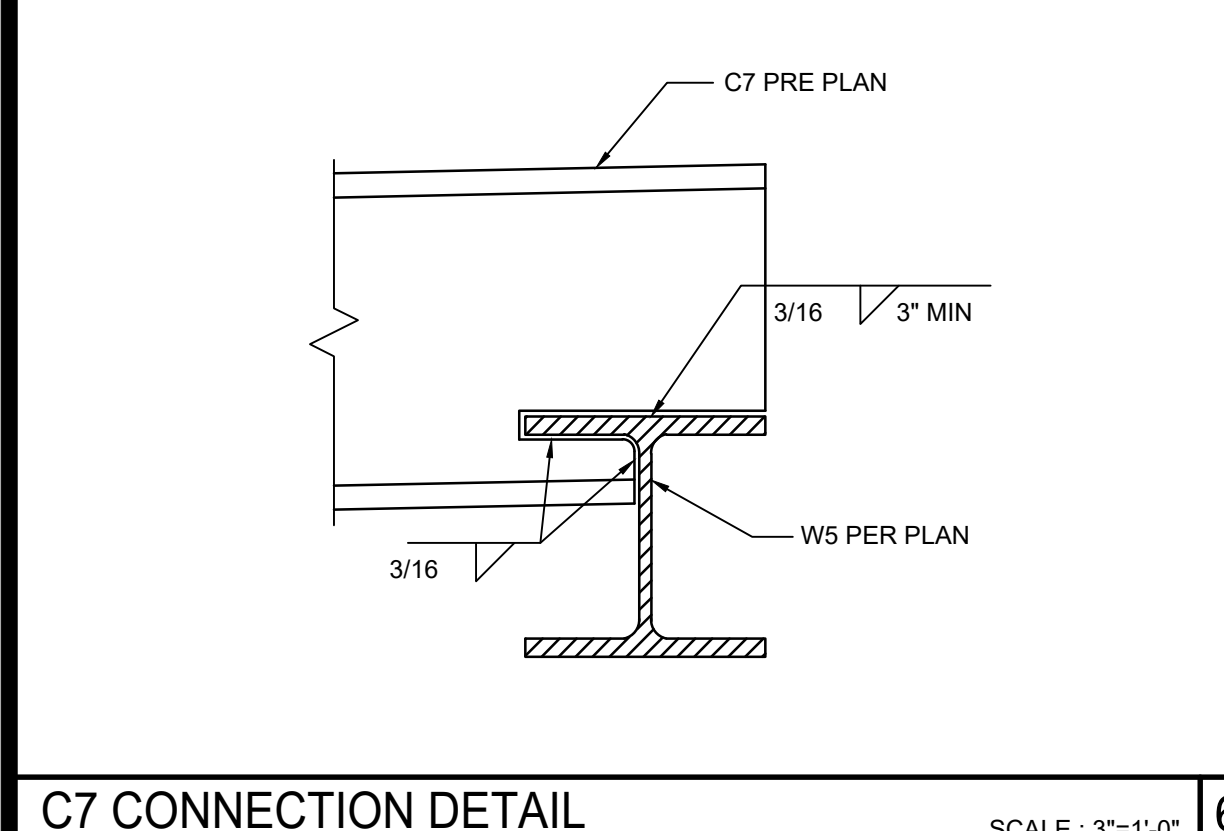
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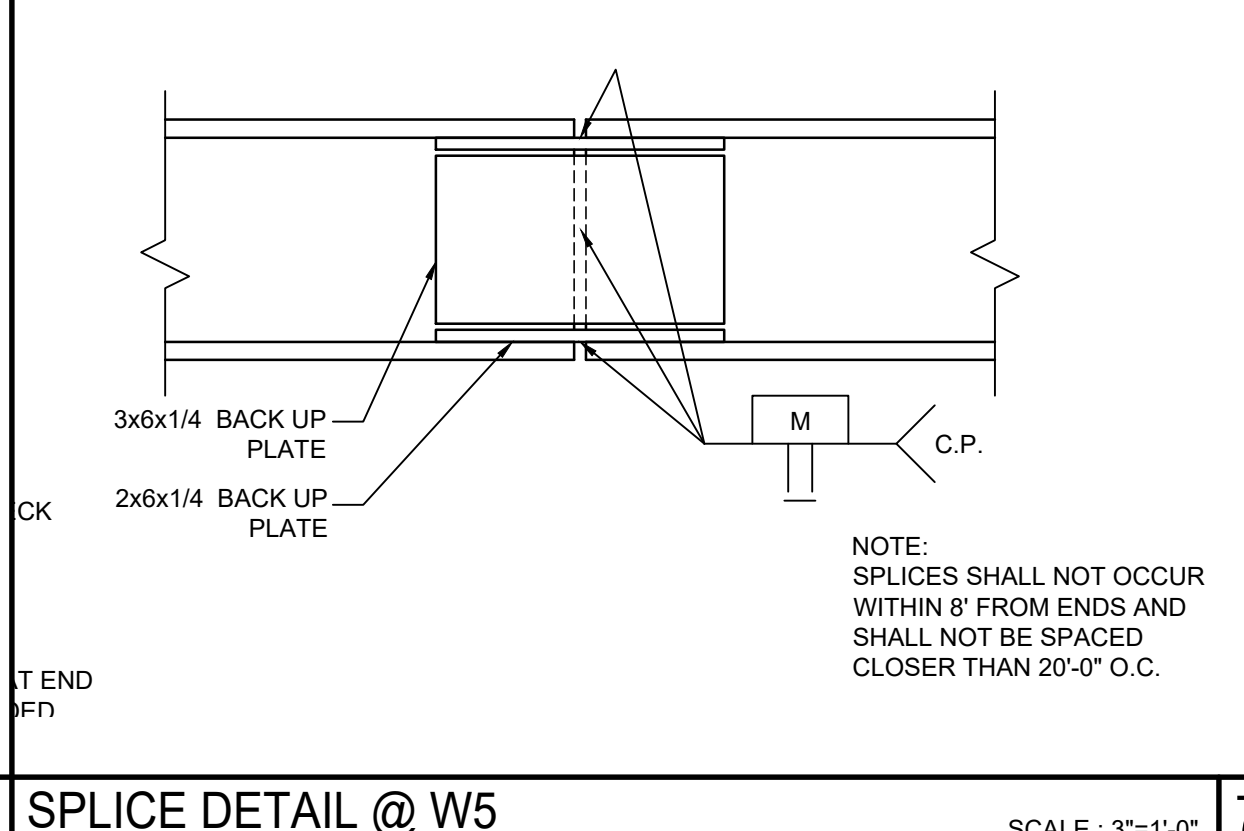
C7 CONNECTION DETAIL

SCALE: 3"=1'-0"



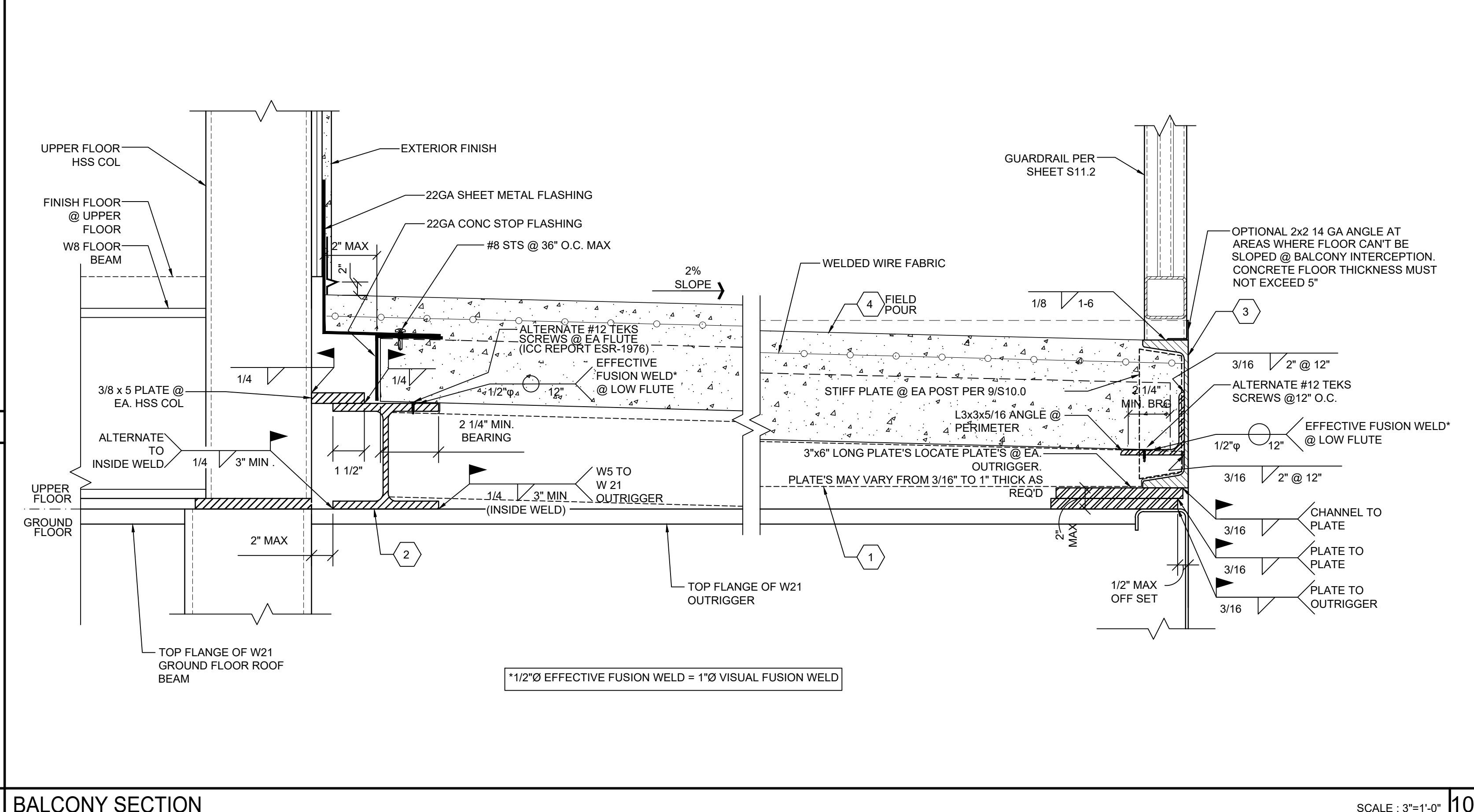
C7 CONNECTION DETAIL

SCALE: 3"=1'-0"



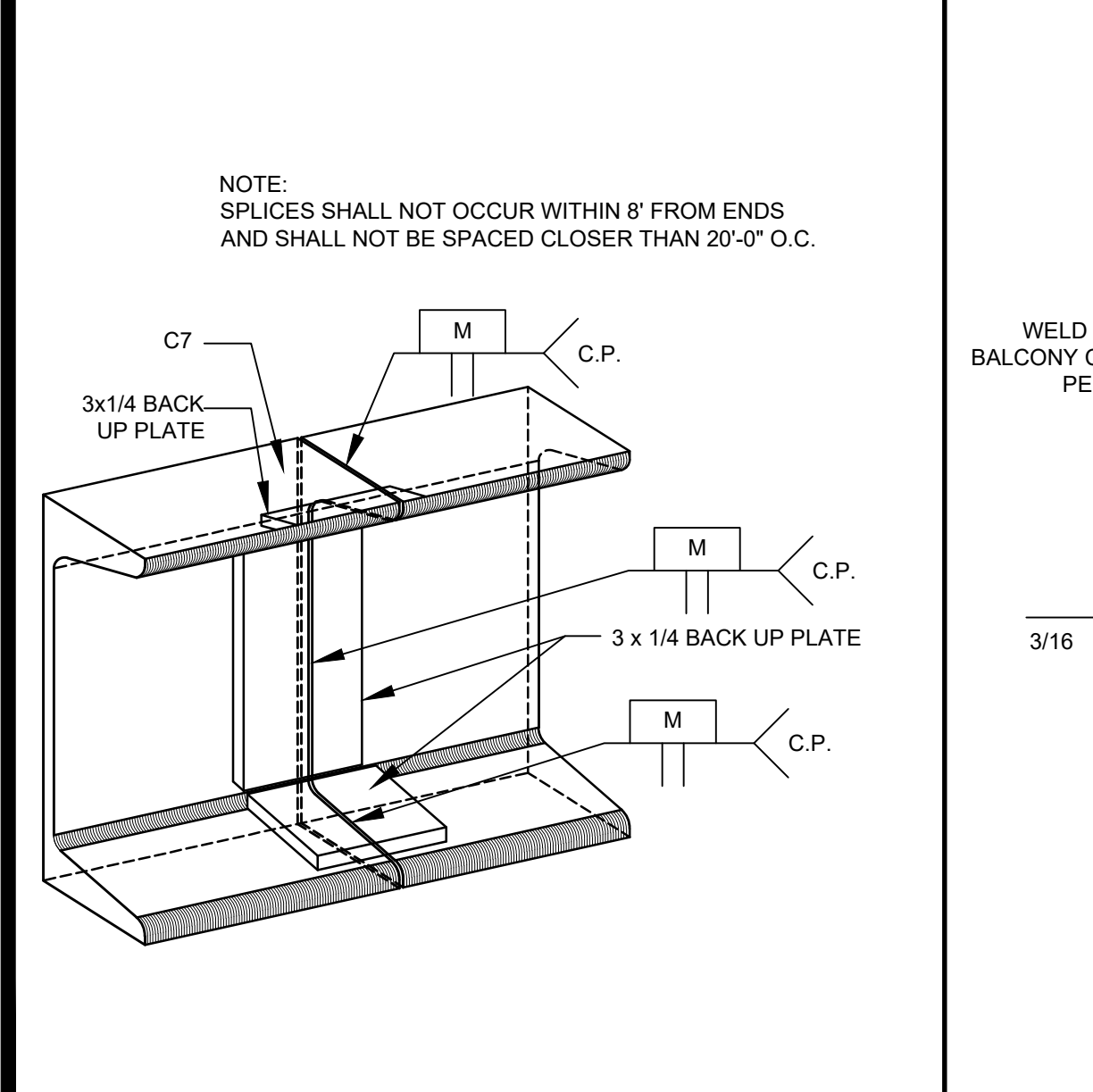
SPLICE DETAIL @ W5

SCALE: 3"=1'-0"



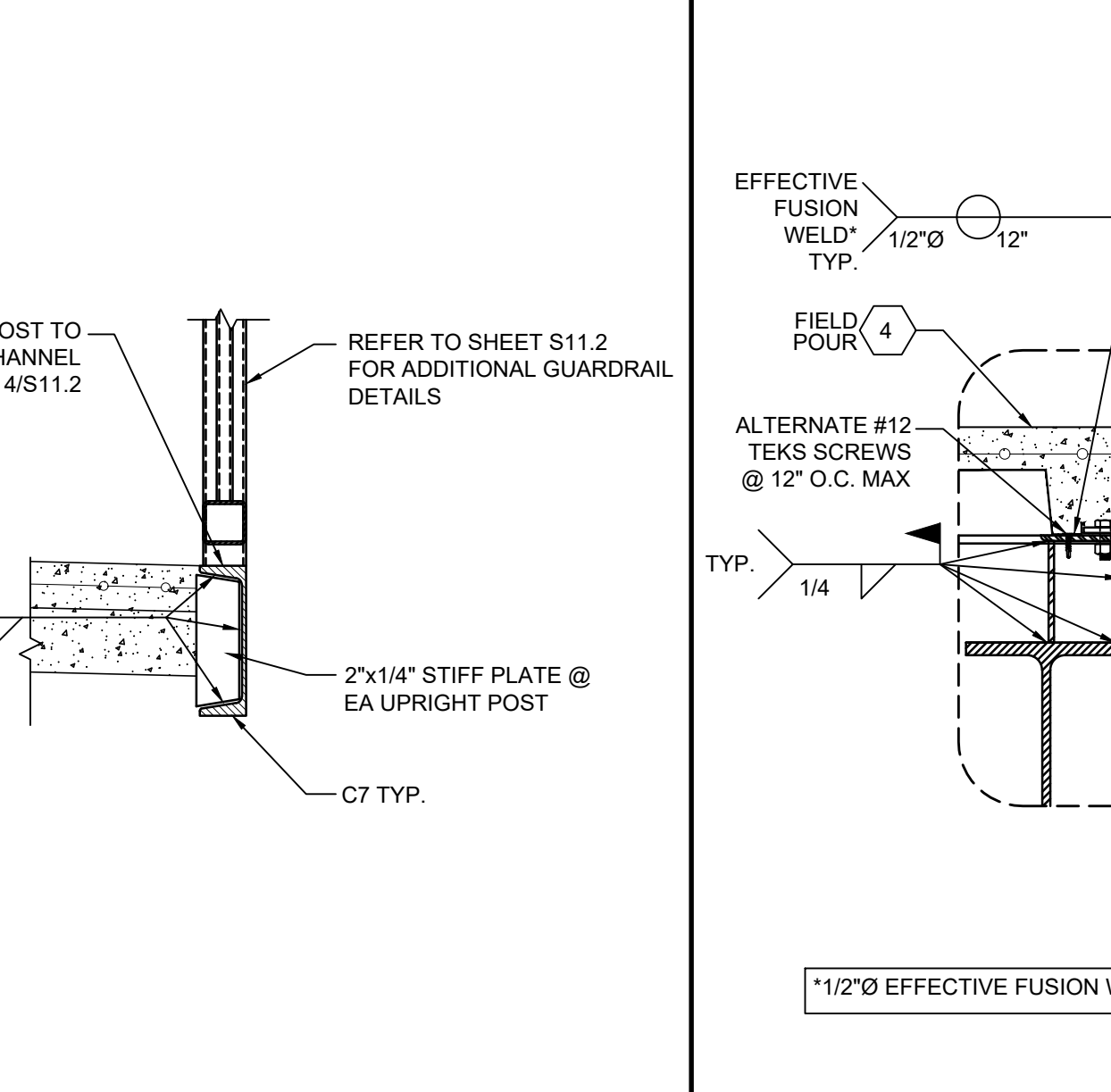
BALCONY SECTION

SCALE: 3"=1'-0"



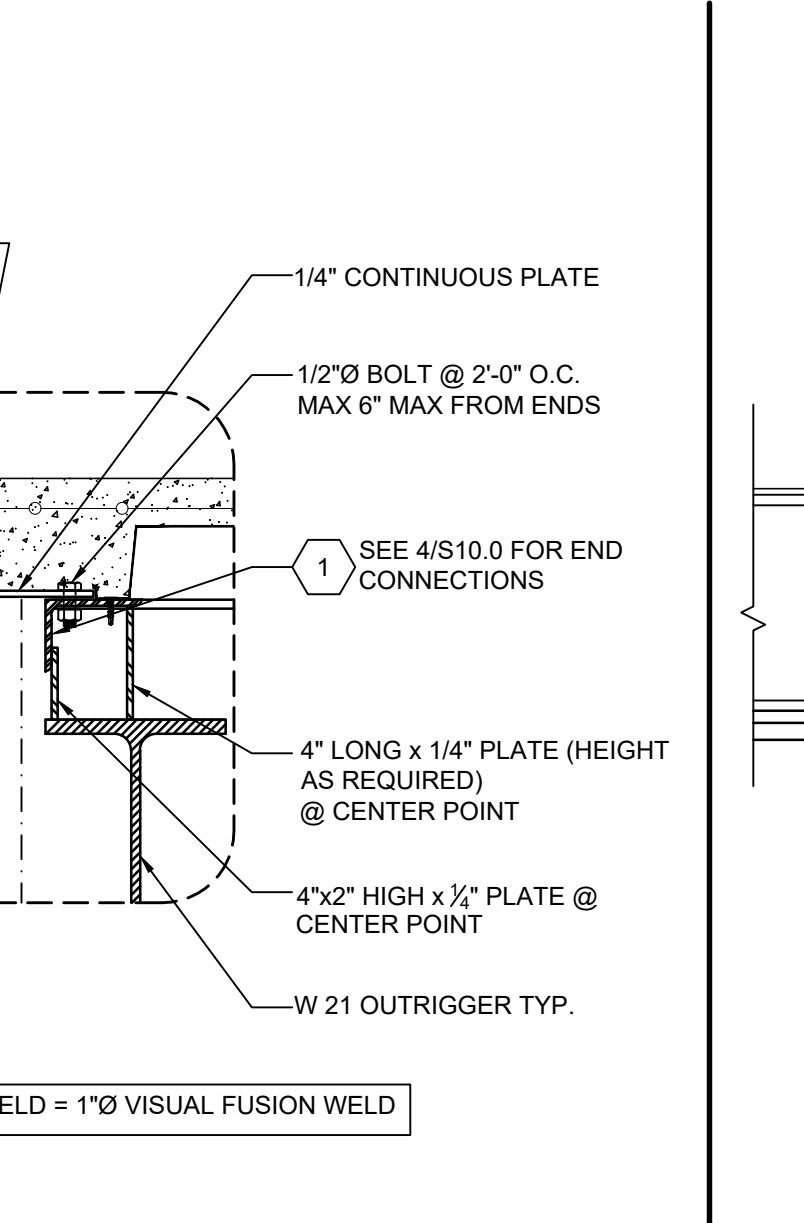
SPLICE DETAIL @ C7

SCALE: 3"=1'-0"



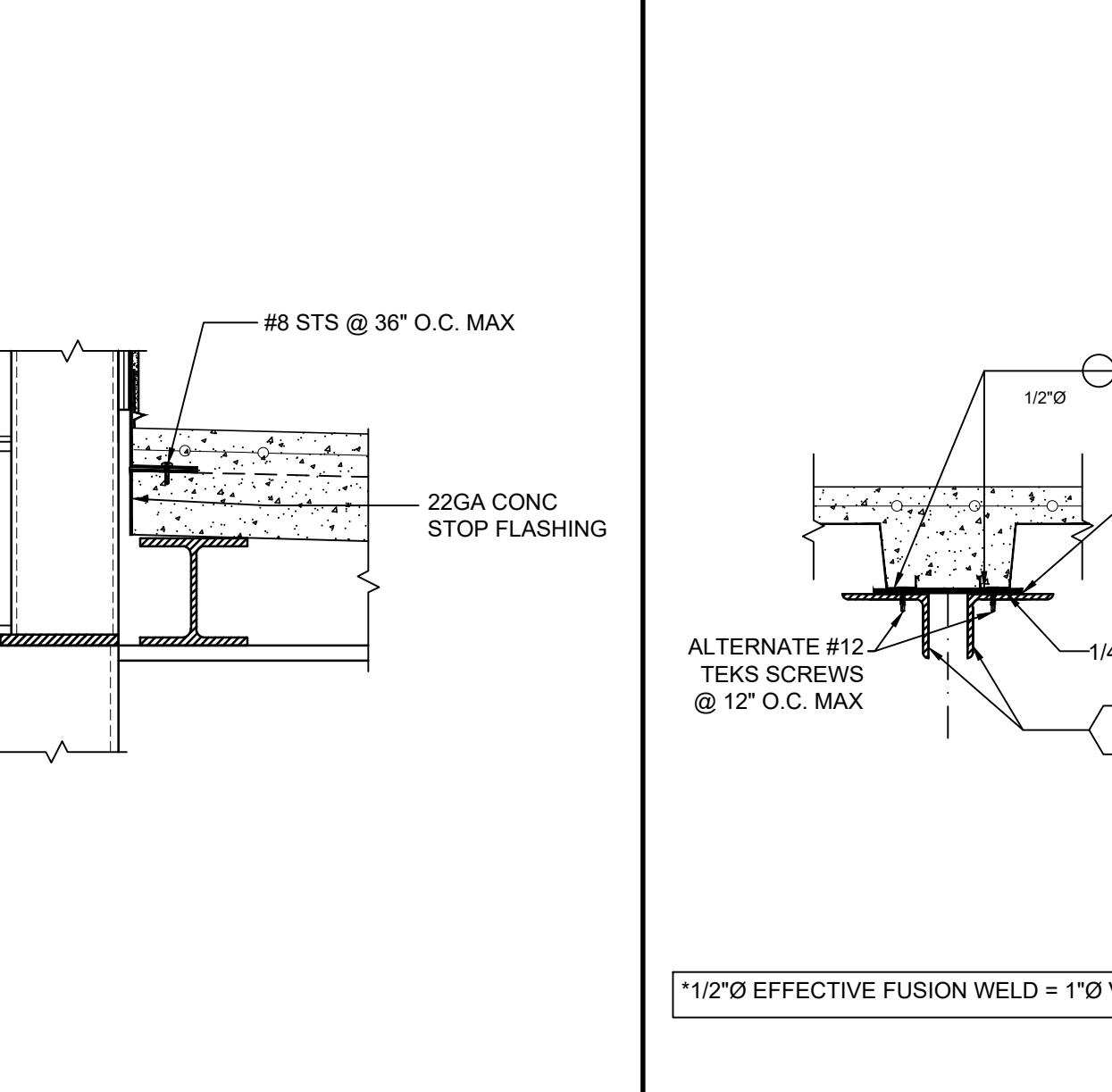
GUARDRAIL TO C7 CHANNEL

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



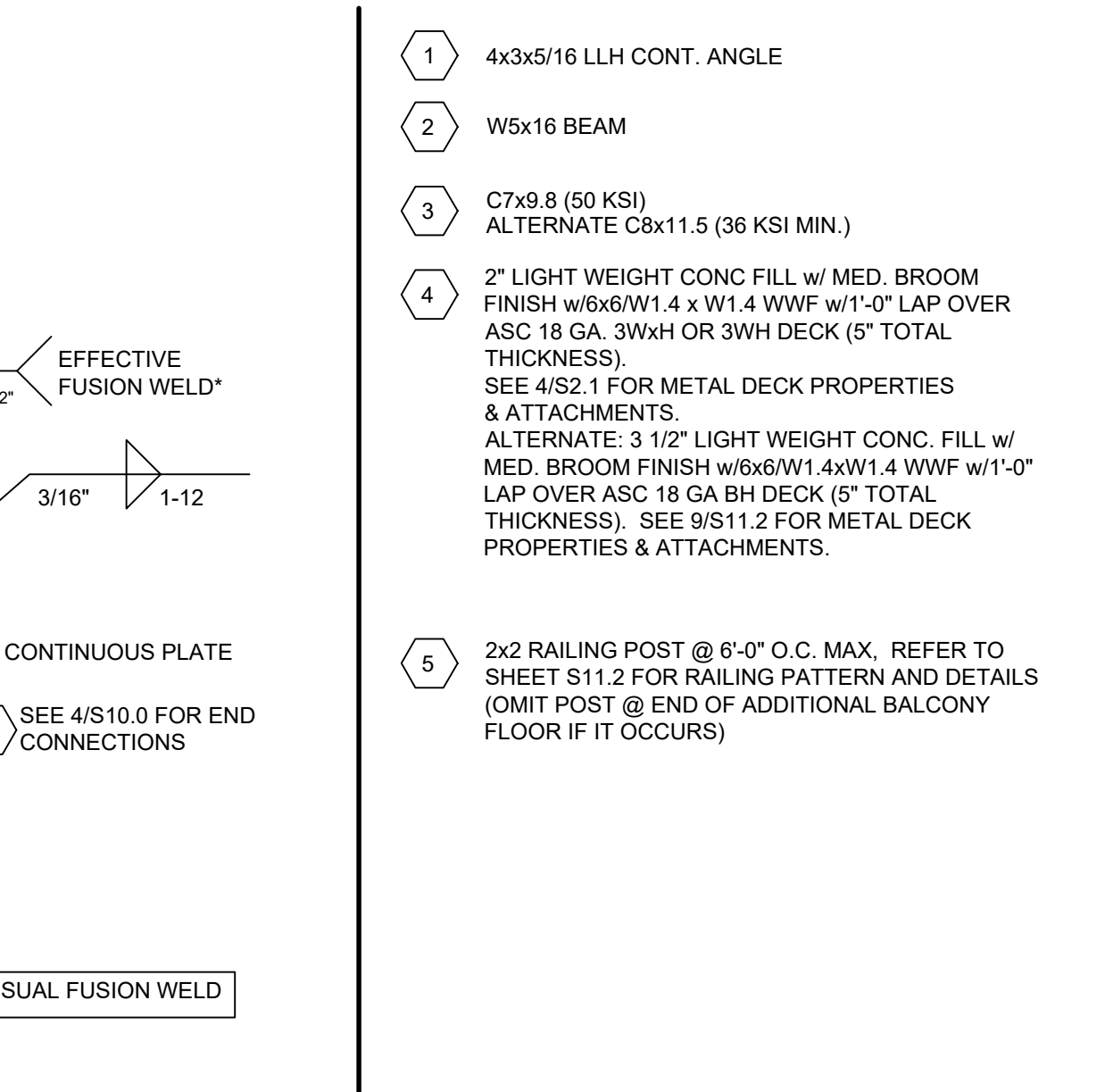
BALCONY TO BALCONY CONNECTION

SCALE: 3"=1'-0"



FLASHING DETAIL

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



FLASHING DETAIL

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

- KEY NOTES
- 4x3x5/16 LLH CONT. ANGLE
  - W5x16 BEAM
  - C7x9.8 (50 KSI) ALTERNATE C8x11.5 (36 KSI MIN.)
  - 2" LIGHT WEIGHT CONC. FILL w/ MED. BROOM FINISH w/6x6/W1.4 x W1.4 WWF w/1'-0" LAP OVER ASC 18 GA. 3WH OR 3WH DECK (5" TOTAL THICKNESS). SEE 4/S2.1 FOR METAL DECK PROPERTIES & ATTACHMENTS. ALTERNATE: 3 1/2" LIGHT WEIGHT CONC. FILL w/ MED. BROOM FINISH w/6x6/W1.4xW1.4 WWF w/1'-0" LAP OVER ASC 18 GA. BH DECK (5" TOTAL THICKNESS). SEE 9/S11.2 FOR METAL DECK PROPERTIES & ATTACHMENTS.
  - 2x2 RAILING POST @ 6'-0" O.C. MAX. REFER TO SHEET S11.2 FOR RAILING PATTERN AND DETAILS (OMIT POST @ END OF ADDITIONAL BALCONY FLOOR IF IT OCCURS)

AMS  
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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD ON PC  
**LICENCED ARCHITECT PATRICK CANNON**  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

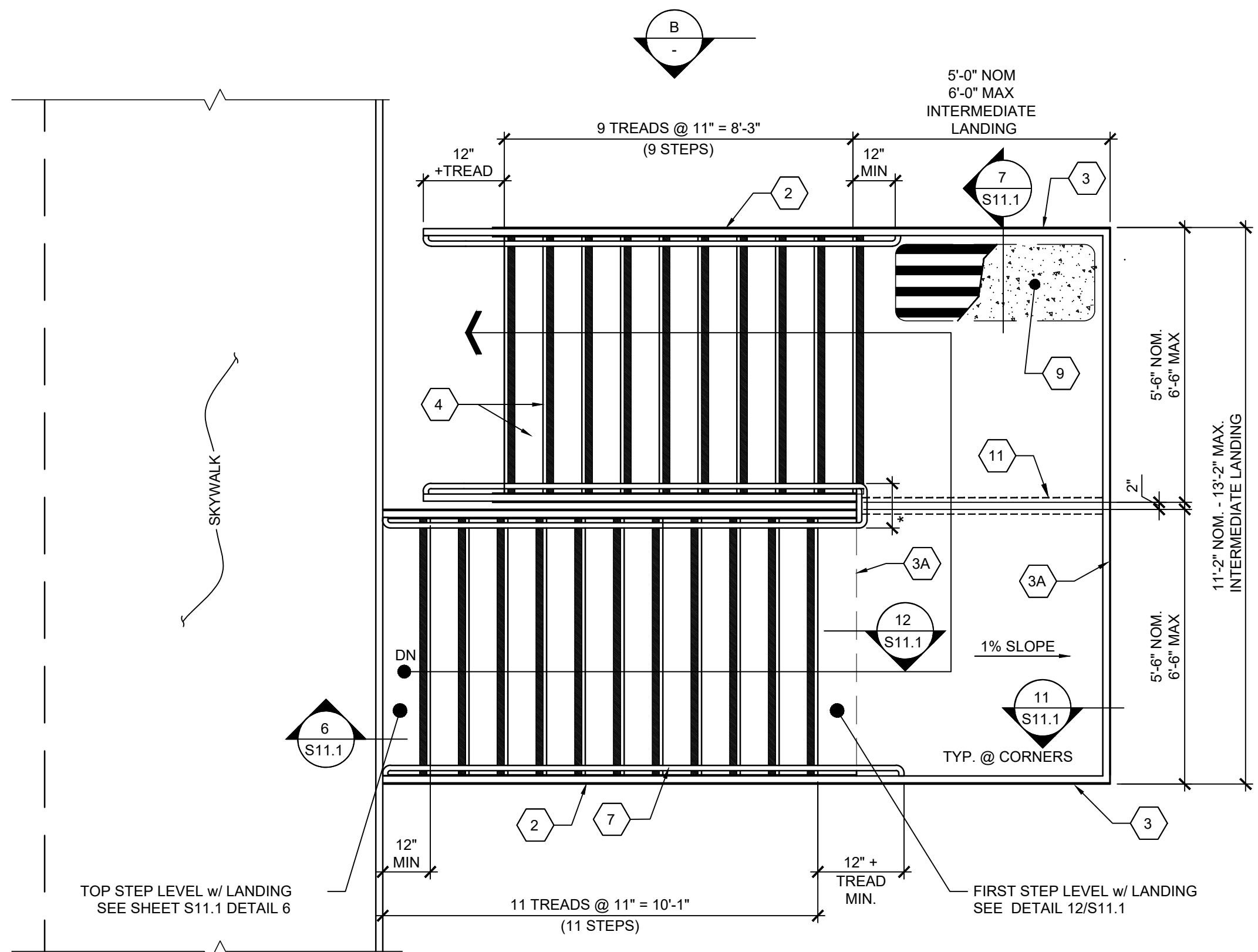
REGISTERED PROFESSIONAL ENGINEER  
**MANNY D. FROST**  
No. S3380  
STRUCTURAL  
STATE OF CALIFORNIA  
09/20/2021  
RST#20203  
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REVISIONS

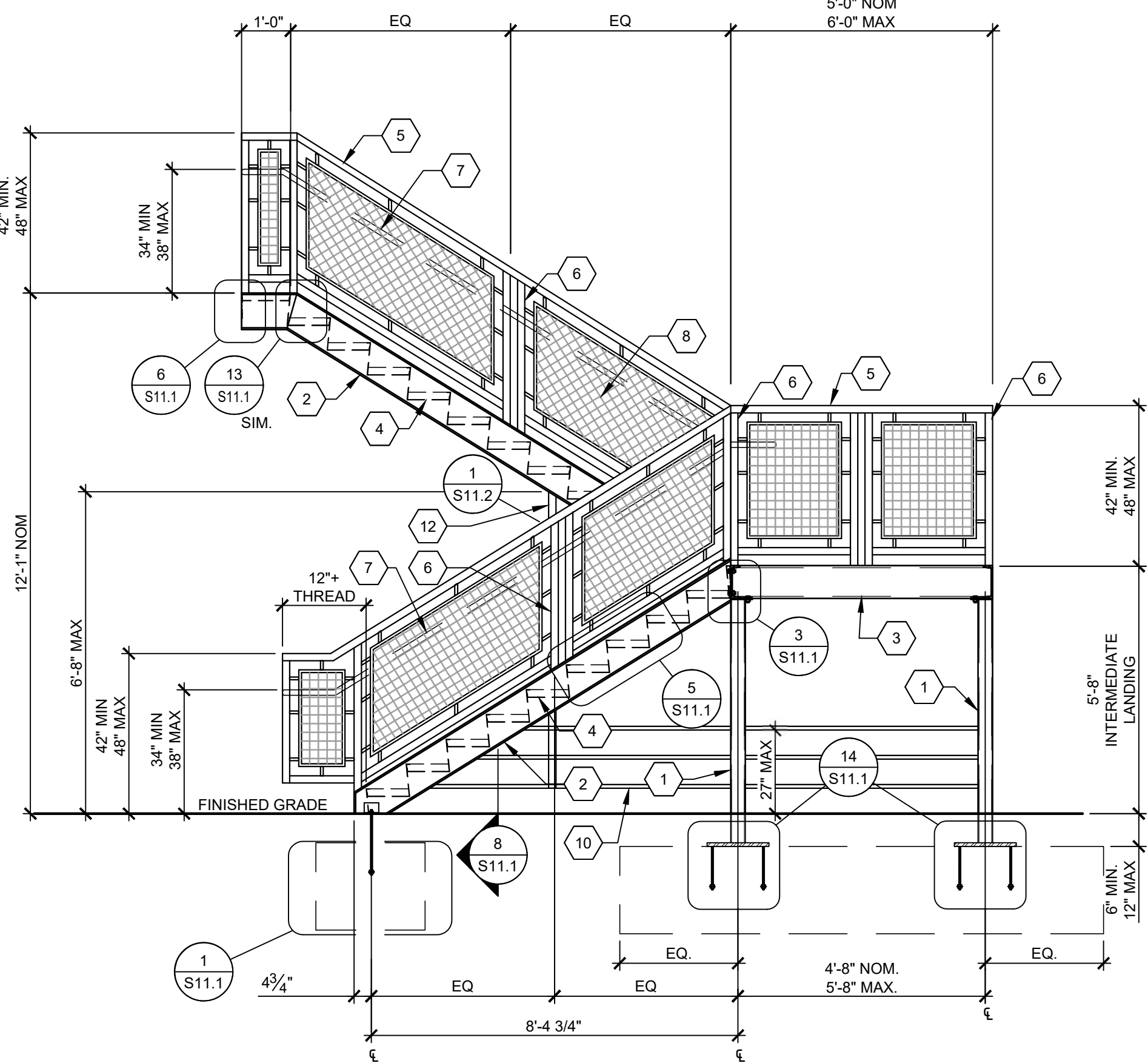

DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20  
SHEET TITLE:  
**BALCONY FLOOR PLAN AND DETAILS**

SHEET NUMBER:  
**S10.0**

BID SET 10/01/2021



\*NOTE: SLOPE HANDRAIL TO MAINTAIN HEIGHT.



- 1 HSS 5x5x5/16 COLUMN
- 2 C10x15.3 (36 KSI MIN.) STRINGER
- 3 C7x9.8 (36 KSI.) LANDING PERIMETER SHORT BEAM ALTERNATE C9x15 (36 KSI MIN.)
- 3A C7x9.8 (50 KSI) LANDING PERIMETER LONG BEAM w/ MAXIMUM 11'-2" LONG SPAN  
C9x13.4 (36 KSI MIN.) LANDING PERIMETER LONG BEAM w/ MAXIMUM 13'-2" LONG SPAN
- 4 10 GA TREAD & RISER
- 5 2x3x14 GA @ TOP & BOTTOM GUARDRAIL
- 6 2X2 POST REFER TO SHEET S11.2 FOR RAILING DETAILS
- 7 1 1/2" Ø HANDRAIL - SEE DETAILS 2&5/S11.2
- 8 METAL MESH PER 3/S11.2
- 9 2" LIGHTWEIGHT CONCRETE FILL OVER METAL DECK PER 7/S11.1 w/MED. BROOM FINISH
- 10 1" SQ. 14 GA CANE DETECTABLE RAILING- 27" MAX AFG PER DETAIL 8/S11.1
- 11 L4x3x5/8 LLH CENTERED UNDER BOTTOM DECK FLUTE CLOSEST TO THE CENTERLINE OF THE LOWER LANDING. ATTACH DECK TO ANGLE w/ 1/2" Ø EFFECTIVE PUDDLE WELDS\* OR #12 TEKS SCREWS @ 12" O.C. MAX. CONNECT TO PERIMETER CHANNEL EACH END w/ 1/4"x2 1/2" OR 5/16"x2" FILLET WELD FROM VERTICAL LEG TO CHANNEL NOTCH AS NECESSARY.  
  
\*1/2" Ø EFFECTIVE FUSION WELD = 1" Ø VISUAL FUSION WELD
- 12 CANE DETECTABLE RAILING WHERE VERTICAL CLEARANCE IS LESS THAN 80" (PER C.B.C. SECTION 11B-307.4)

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MANUFACTURER PROFESSIONAL OF RECORD ON PC

*Patricia Canino*  
LICENSED ARCHITECT  
PATRICIA CANINO  
No. C12631  
Ren. 3-31-23  
STATE OF CALIFORNIA

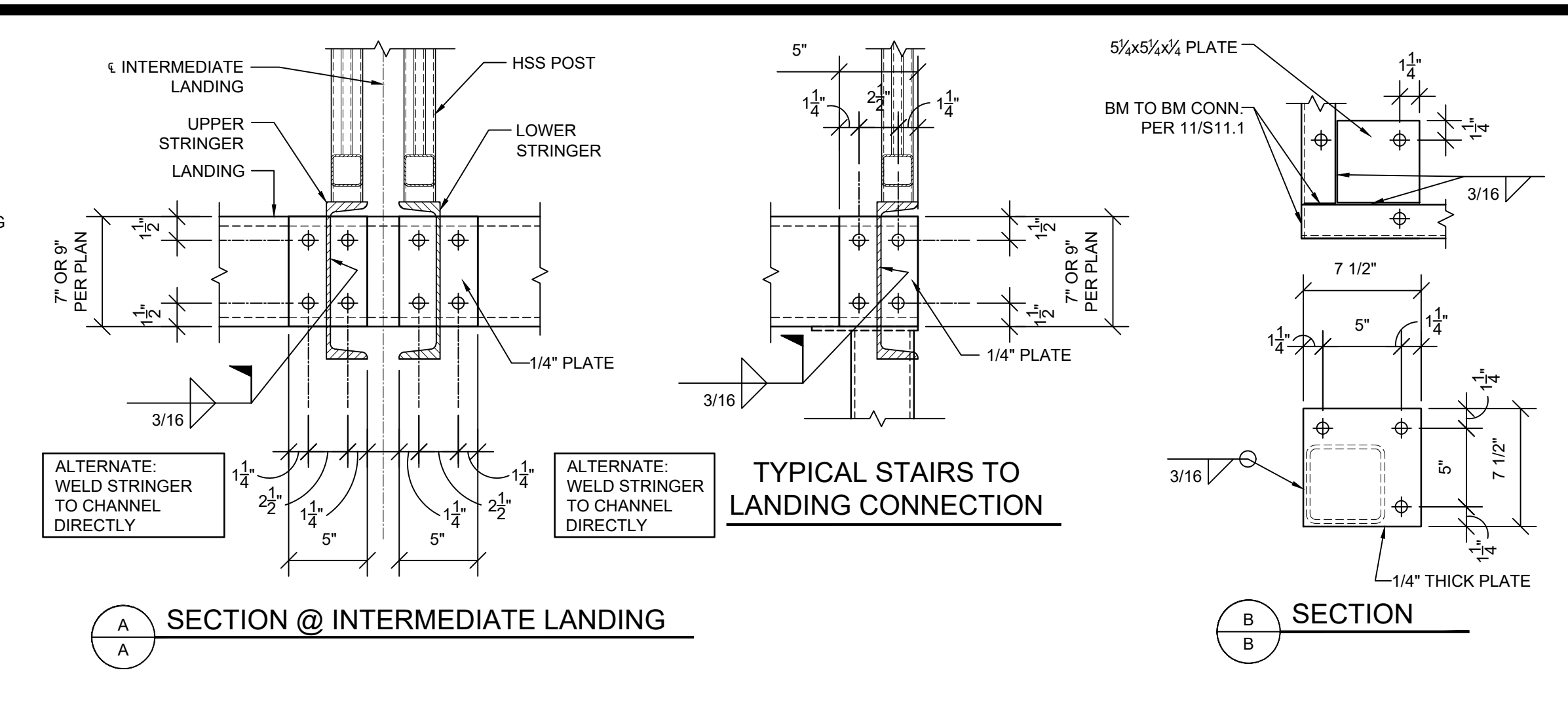
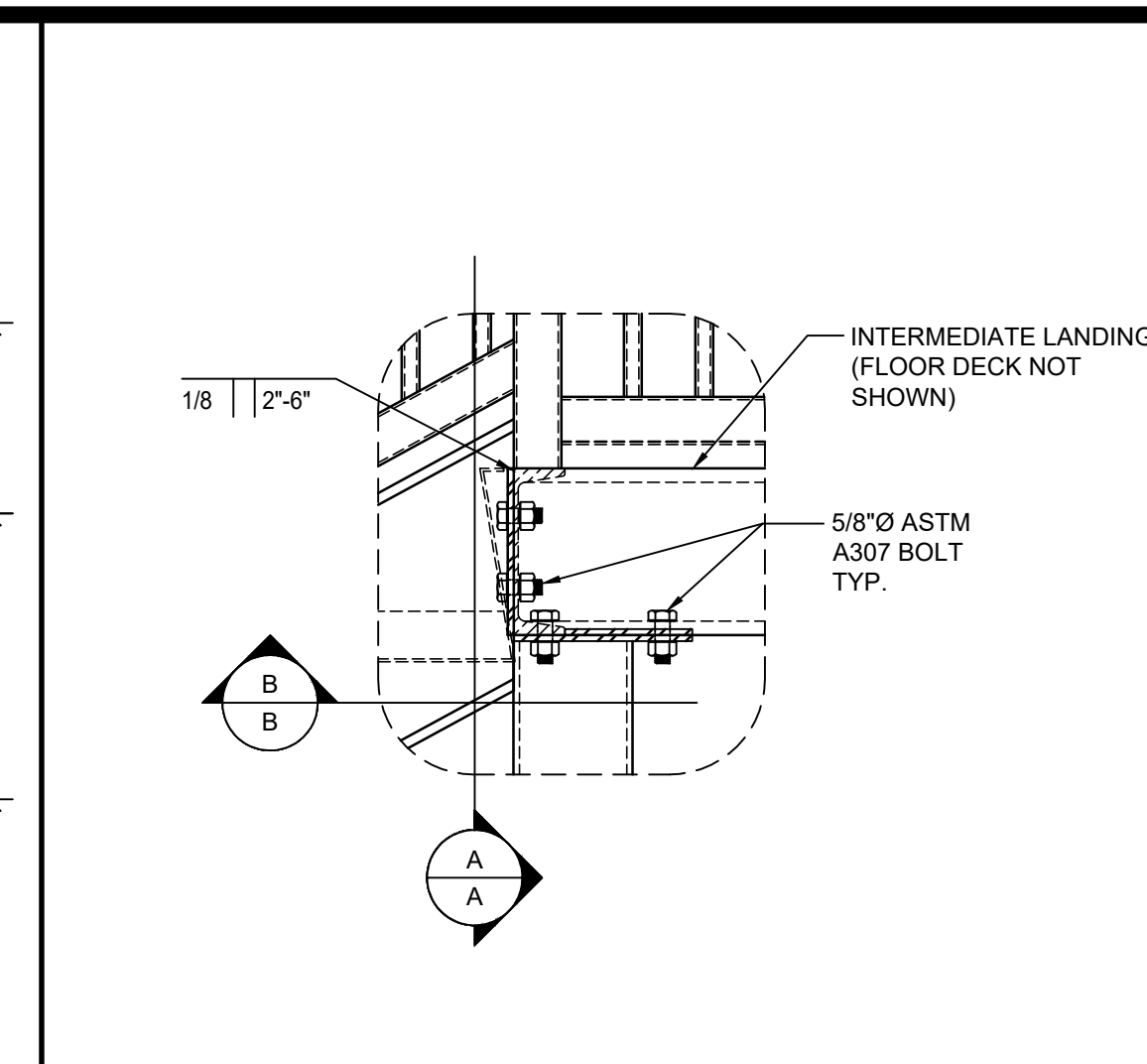
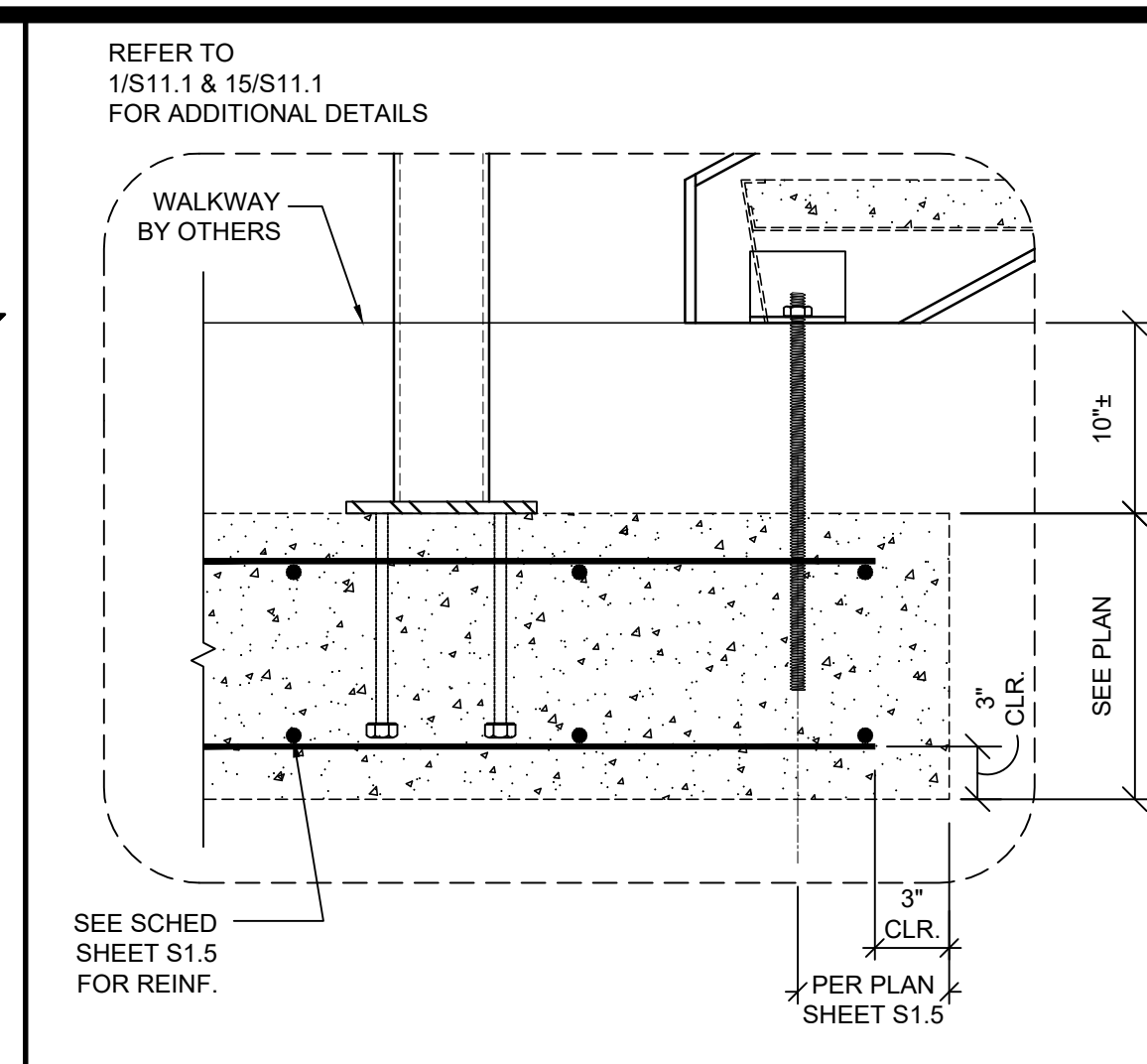
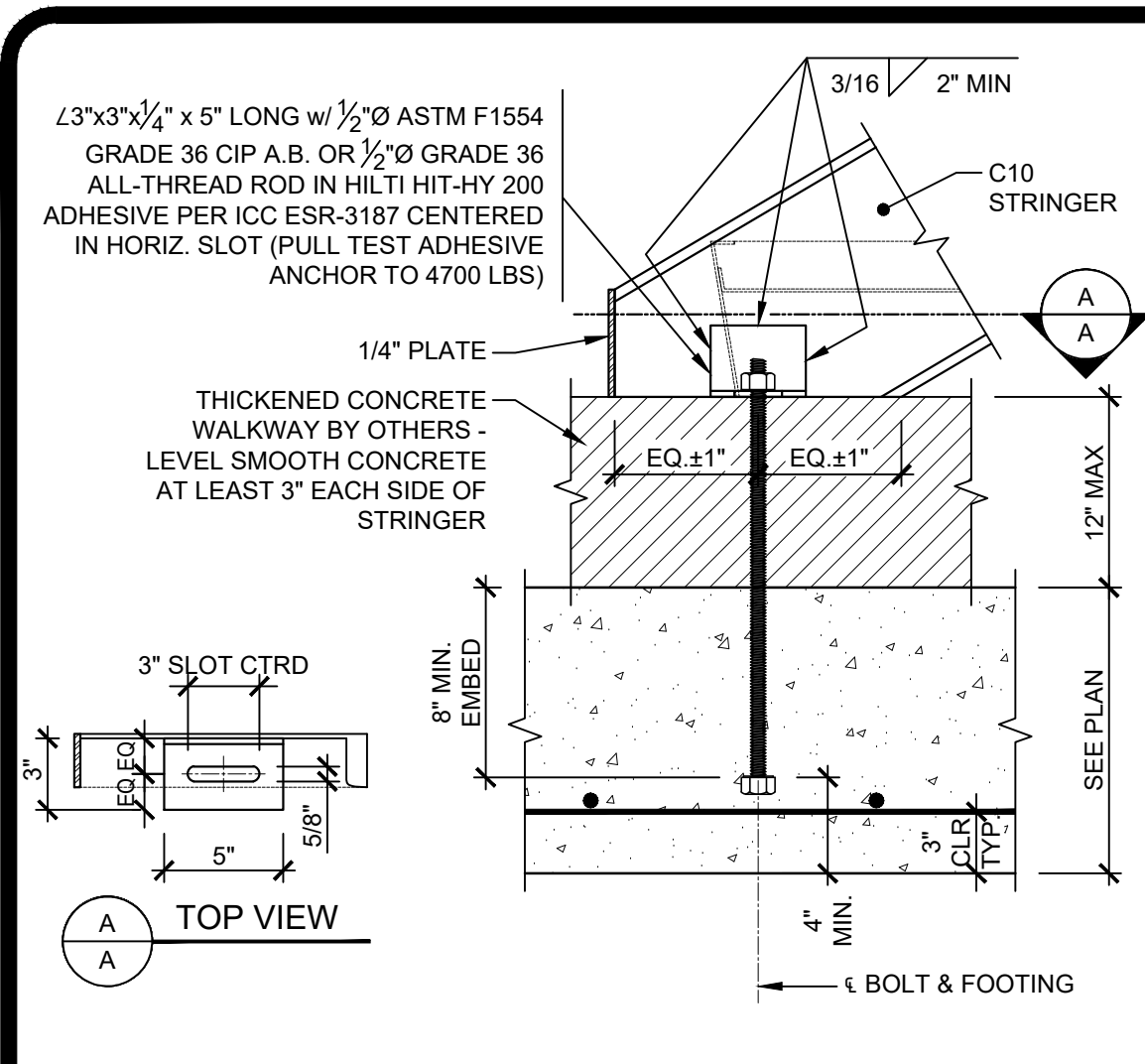
*Manly D. Frisco*  
REGISTERED PROFESSIONAL ENGINEER  
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DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20

SHEET TITLE:  
**STAIR PLAN AND ELEVATION**

SHEET NUMBER:  
**S11.0**

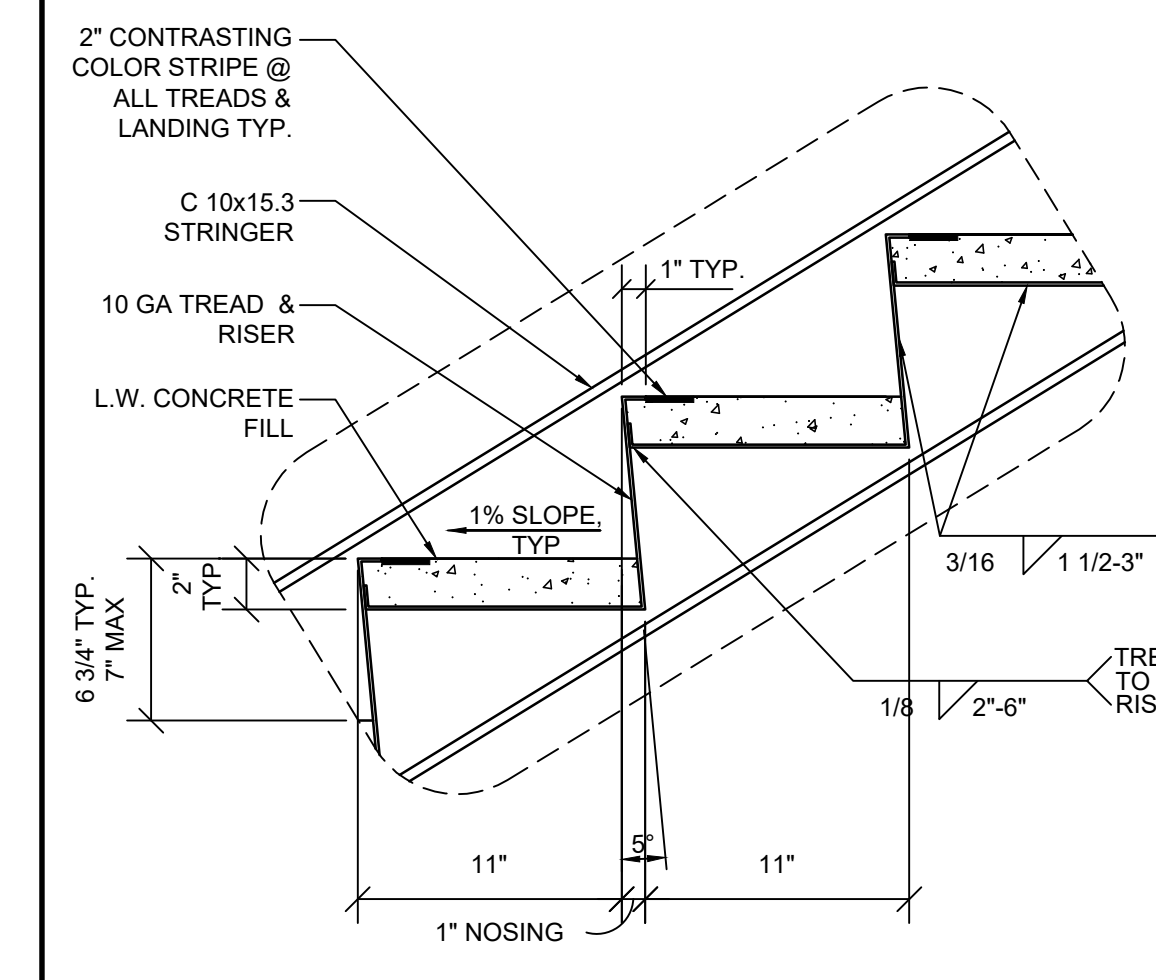


1 STAIR CONN @ FOOTING SCALE: 1 1/2"=1'-0"

2 COMBINED FOOTING PAD CONDITION SCALE: 1 1/2"=1'-0"

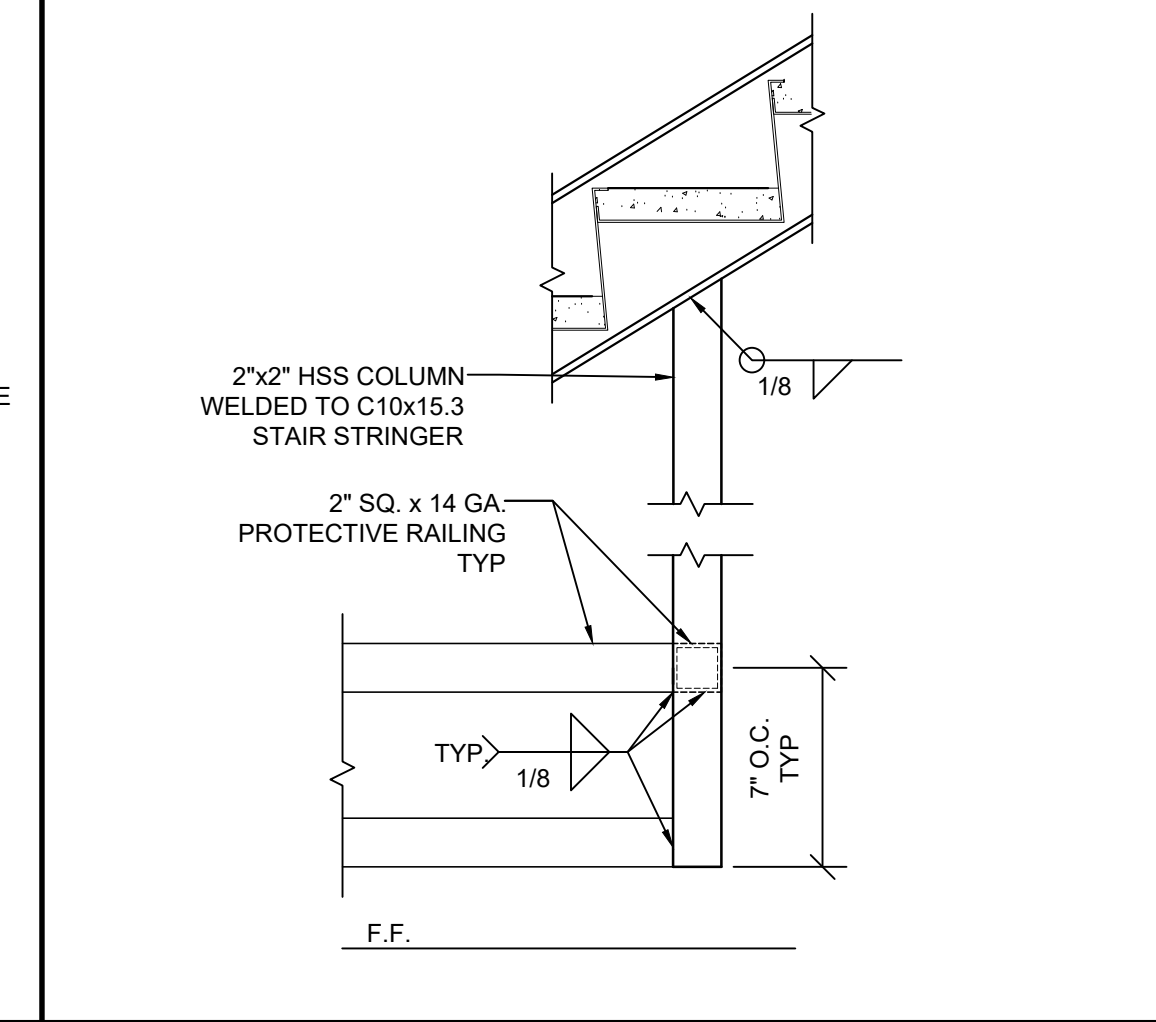
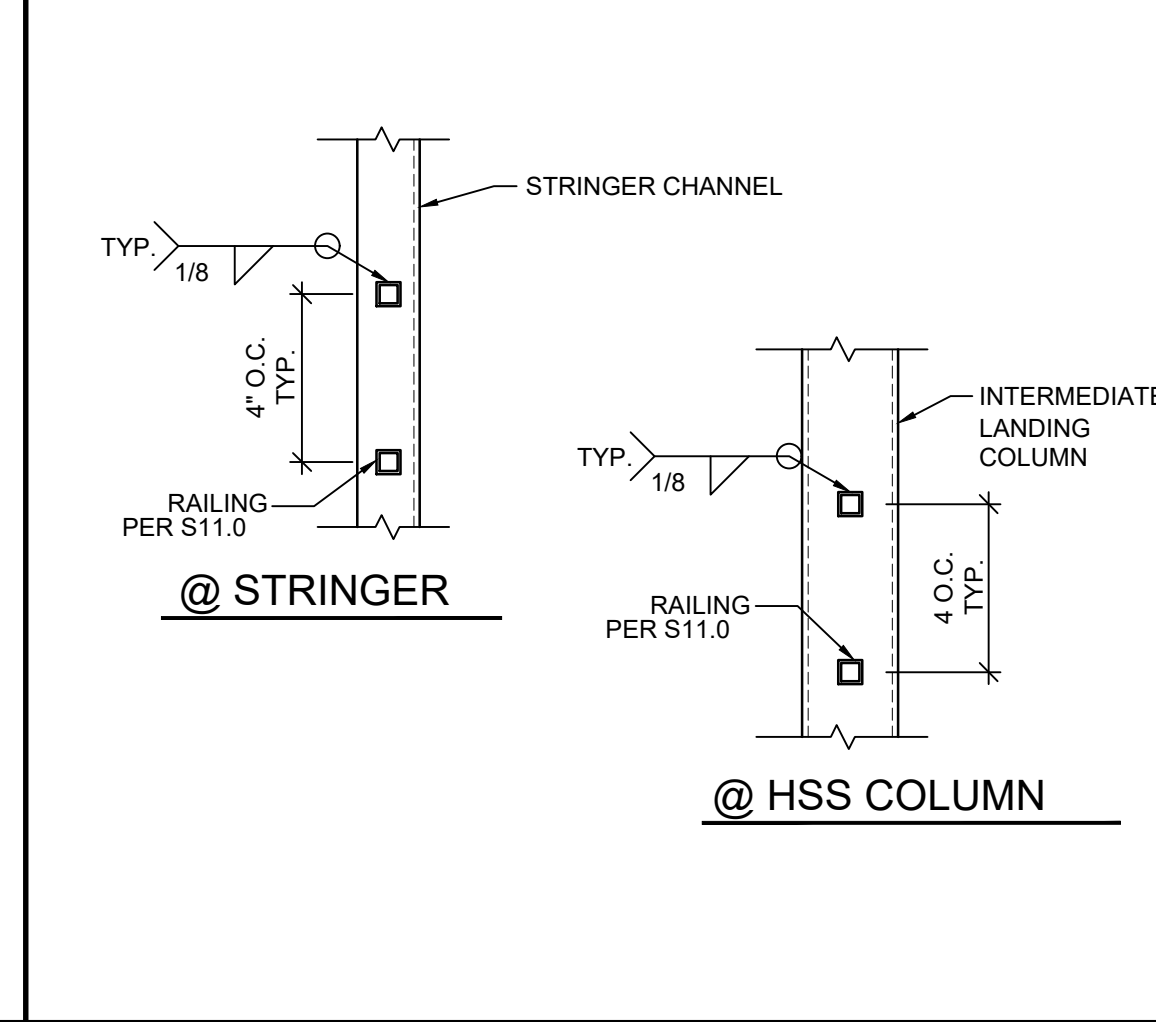
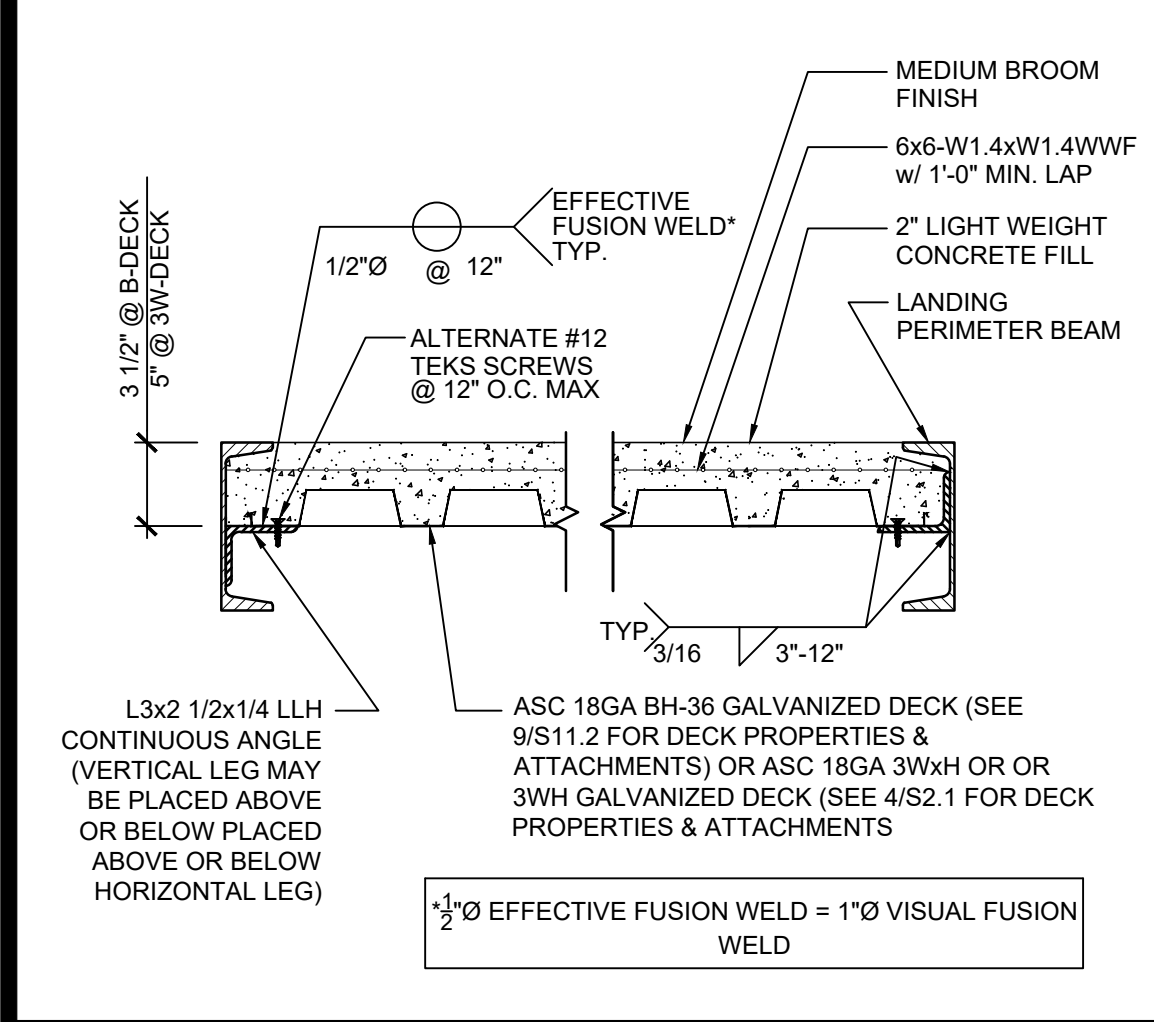
3 STAIR & COLUMN CONNECTIONS @ INTERMEDIATE LANDINGS SCALE: 1 1/2"=1'-0"

4 TYPICAL STAIRS TO LANDING CONNECTION SCALE: 1 1/2"=1'-0"



5 TREAD & RISER TYPICAL SECTION SCALE: 1 1/2"=1'-0"

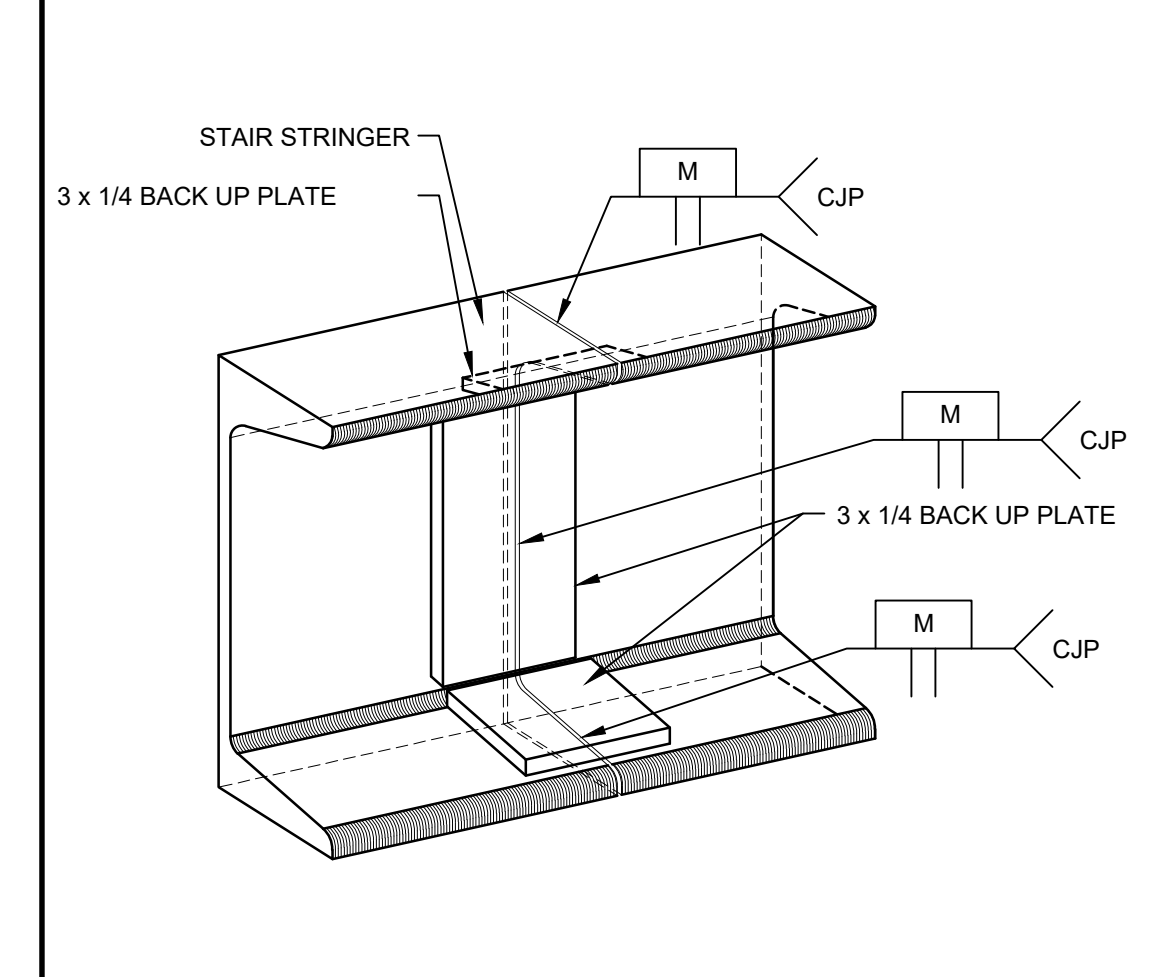
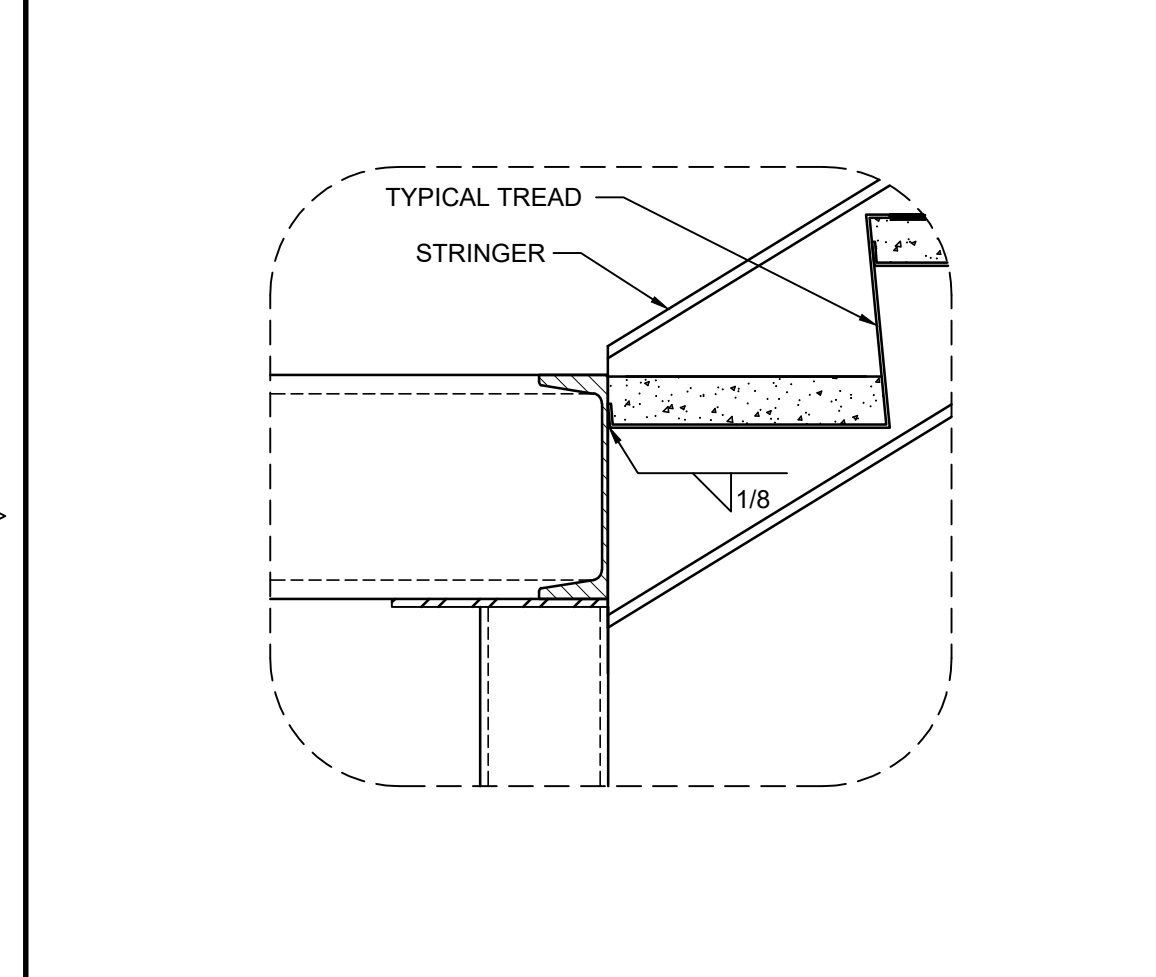
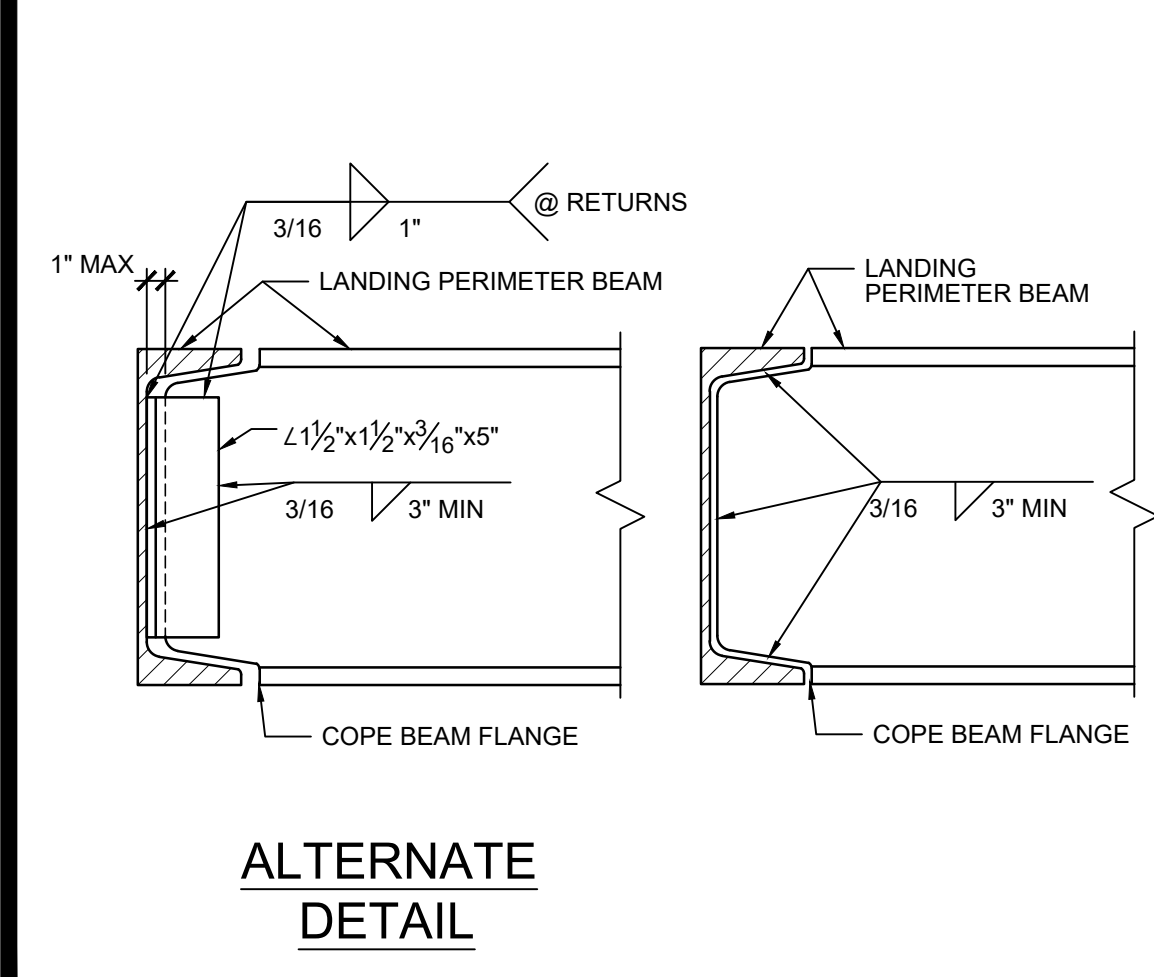
6 CONNECTION STAIRS TO SKYWALK SCALE: 1 1/2"=1'-0"



7 TYPICAL LANDING FLOOR DETAIL SCALE: 1 1/2"=1'-0"

8 RAILING ATTACHMENT DETAIL @ STRINGER SCALE: 1 1/2"=1'-0"

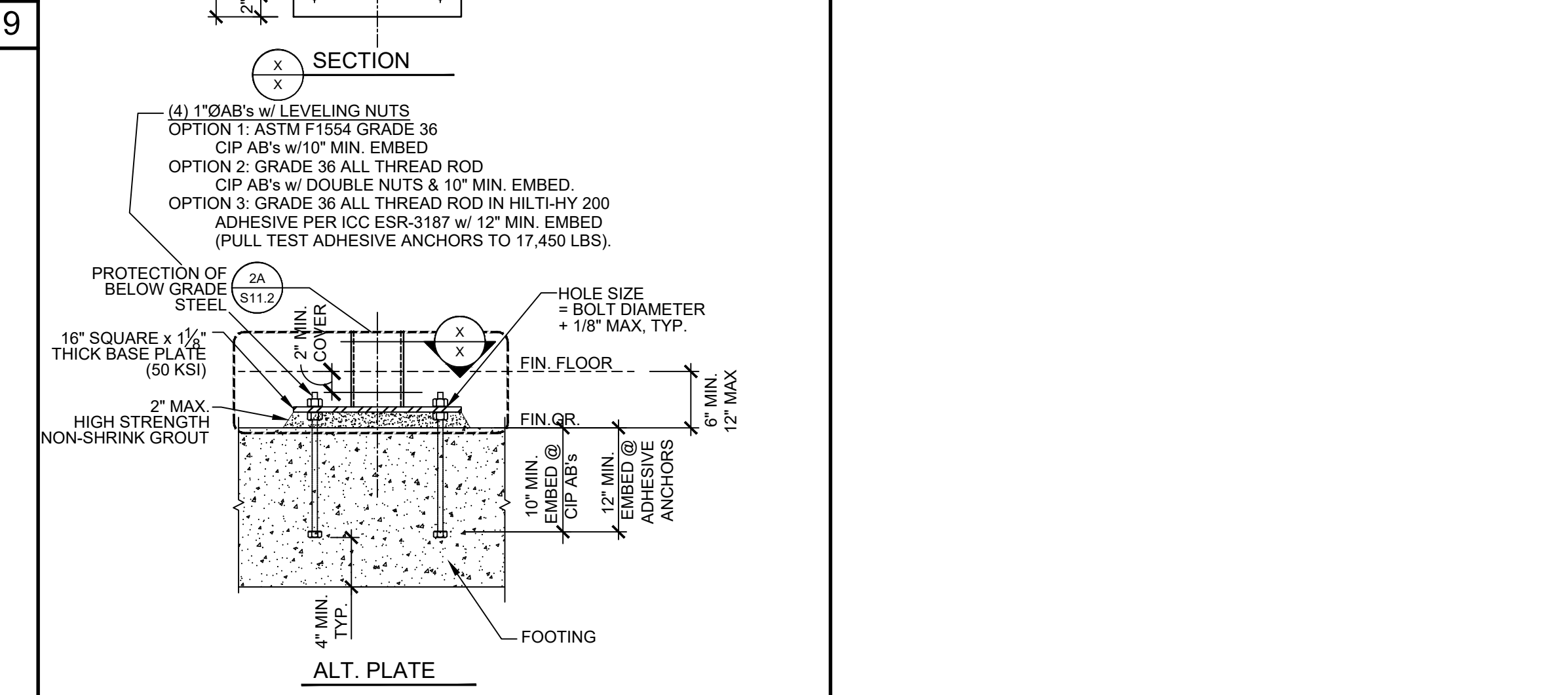
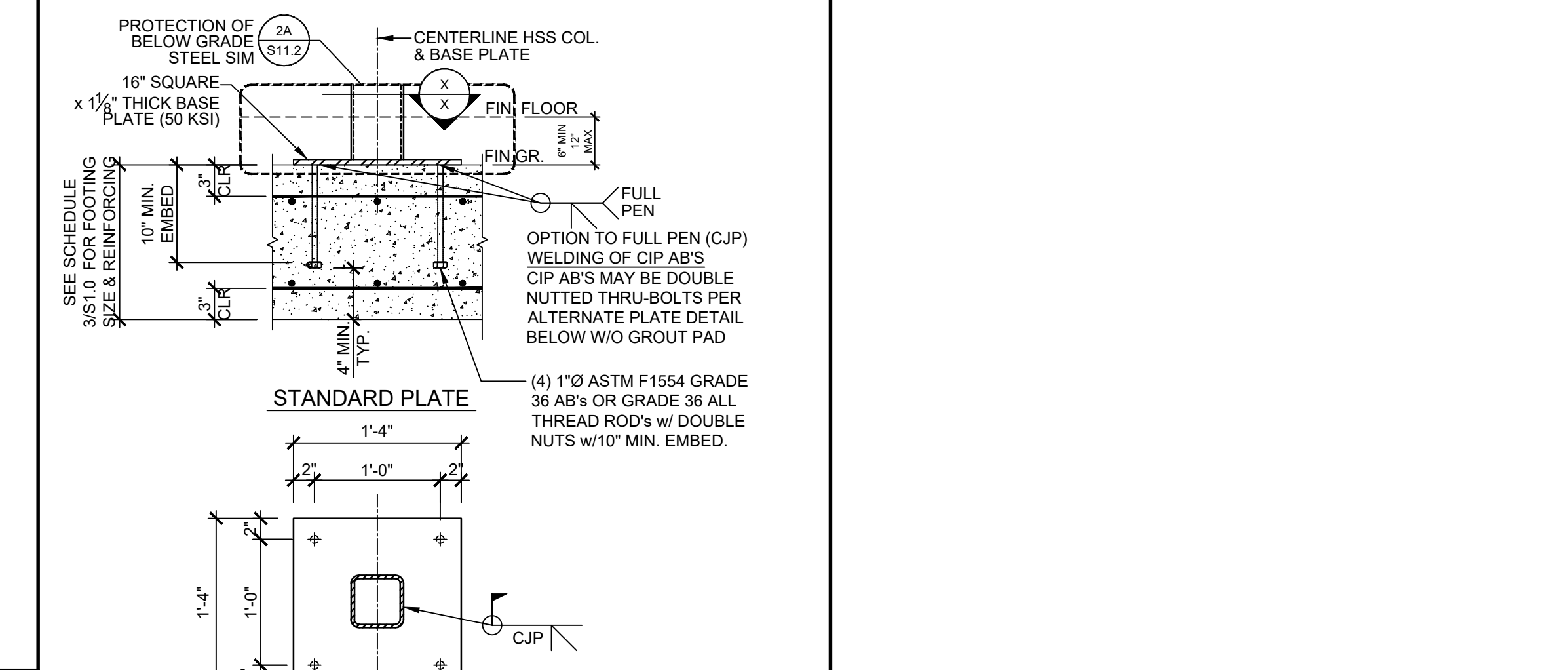
9 RAILING ATTACHMENT DETAIL @ HSS COLUMN SCALE: 1 1/2"=1'-0"



10 LANDING FLOOR WELDING DETAILS SCALE: 1 1/2"=1'-0"

11 CONNECTION DETAIL SCALE: 1 1/2"=1'-0"

12 STAIR STRINGER SPLICE DETAIL SCALE: N.T.S.



13 LOWER LANDING COL. CONN. @ FOOTING SCALE: 1"=1'-0"

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**Patricia Cantu**  
LICENSED ARCHITECT  
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Ren. 3-31-23  
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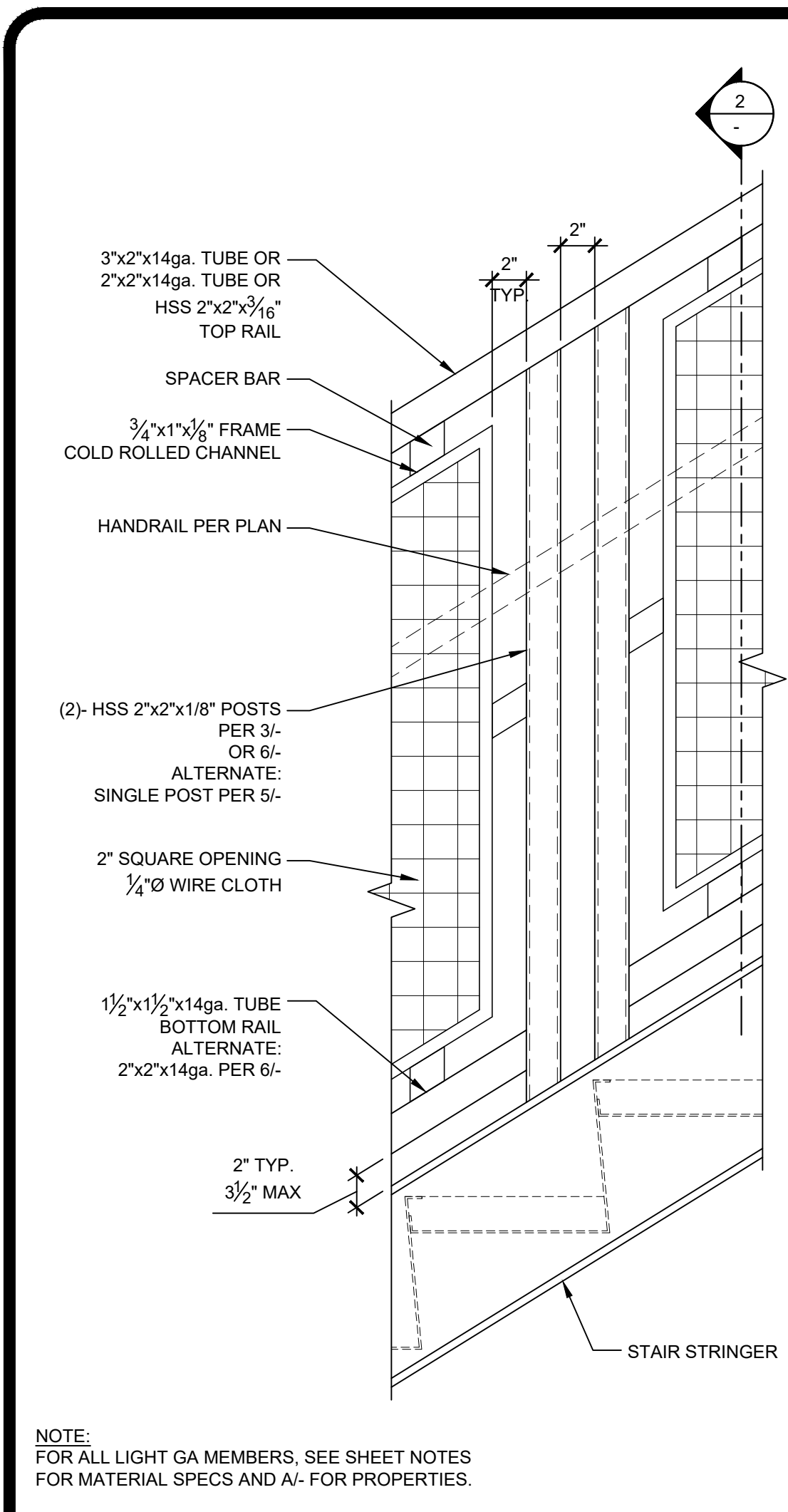
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DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20  
SHEET TITLE: **STAIR DETAILS**  
SHEET NUMBER:

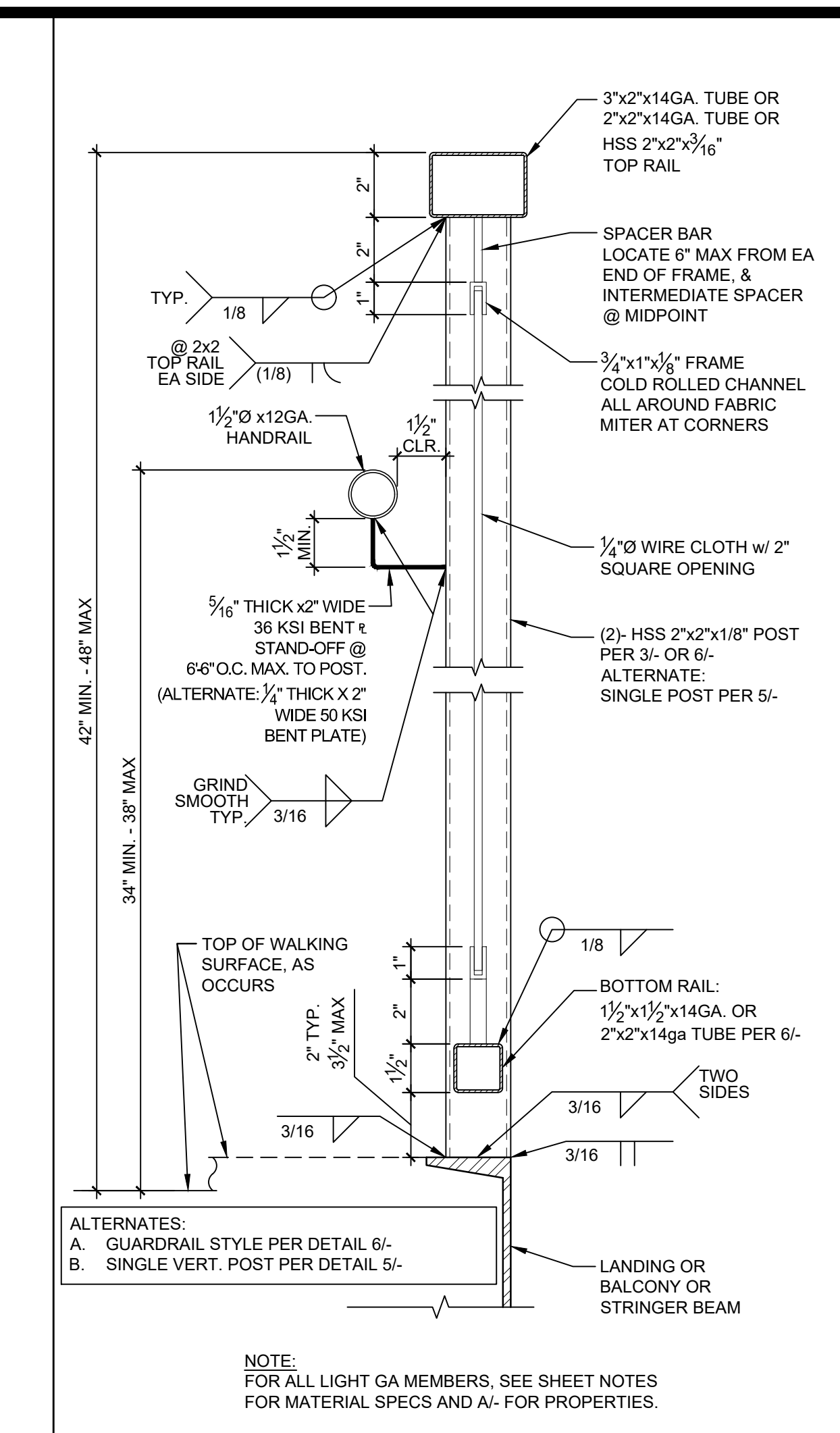
14 NOT USED

**S11.1**

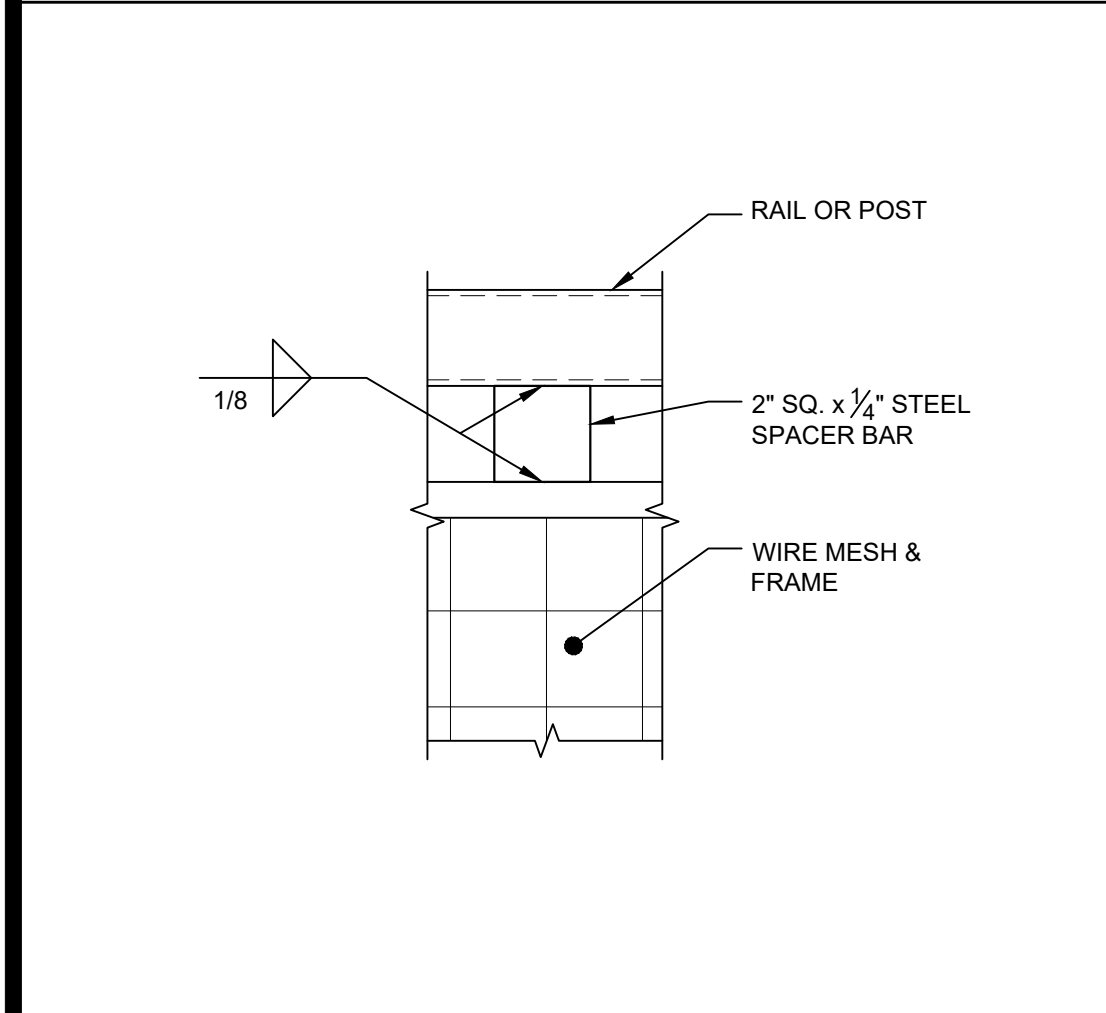
BID SET 10/01/2021



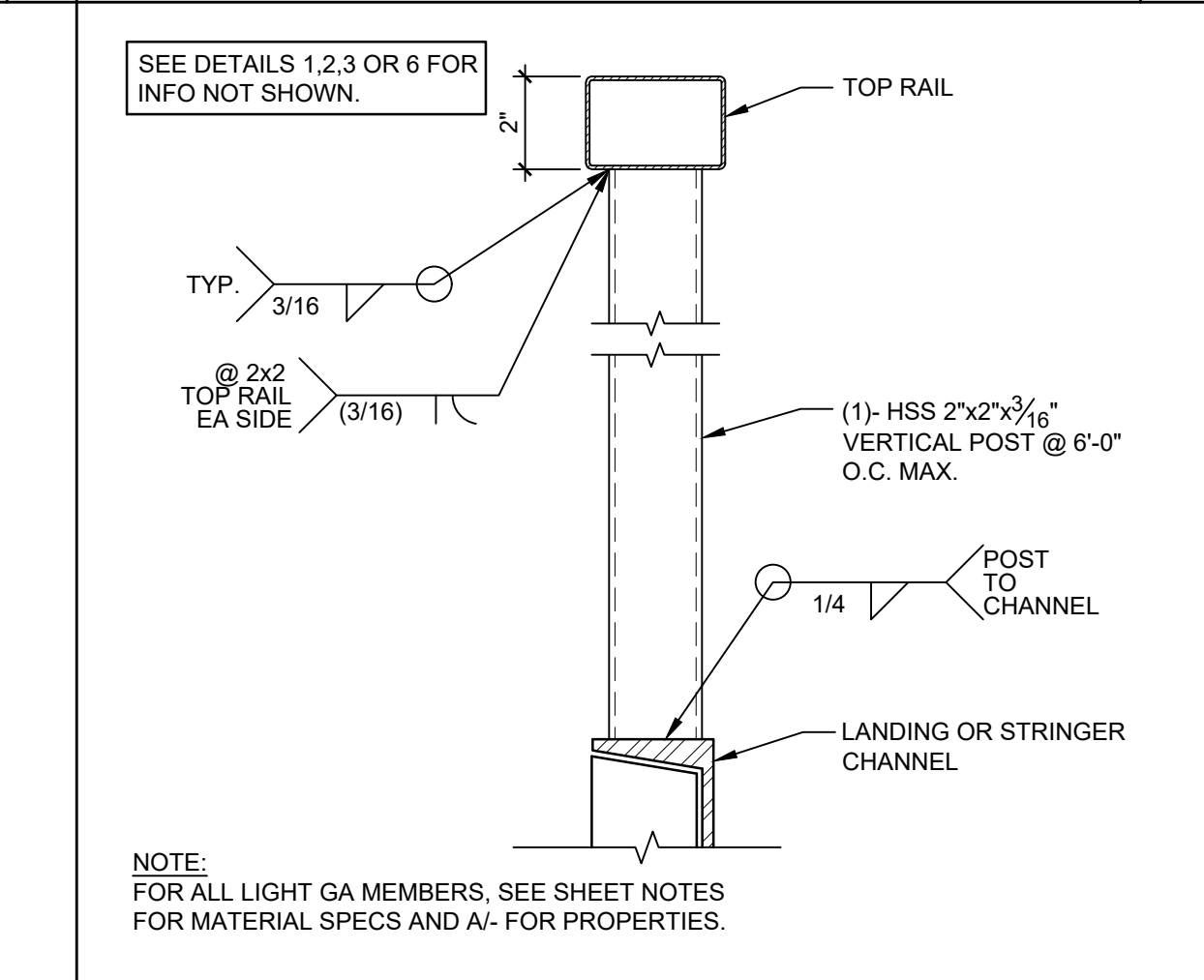
GUARDRAIL @ STAIR SCALE: 1-1/2" = 1'-0" 1



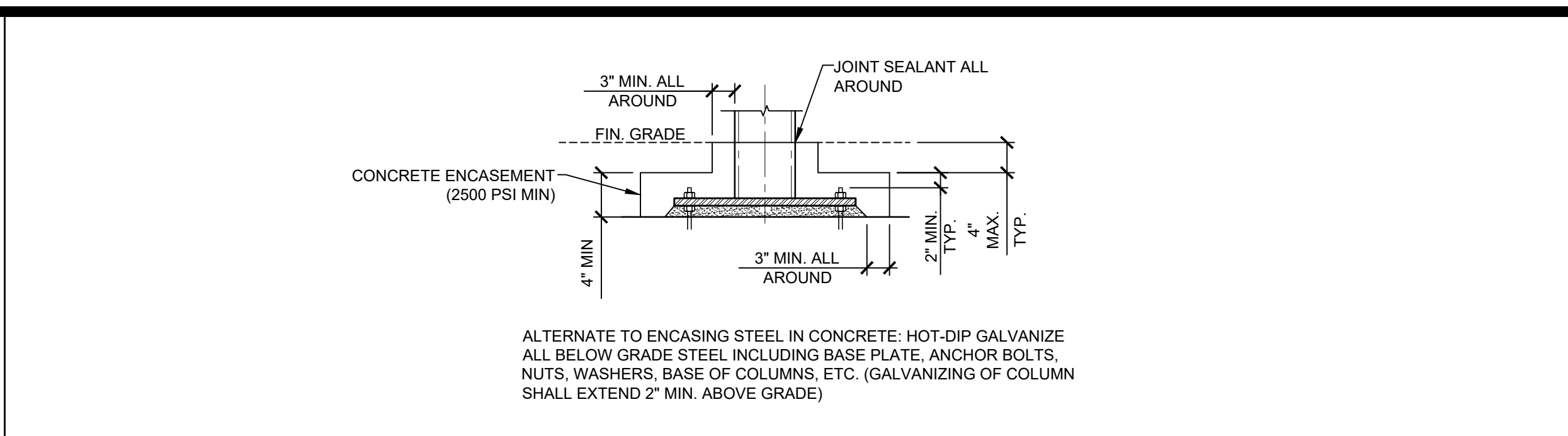
RAILING SECTION SCALE: 1-1/2" = 1'-0" 2



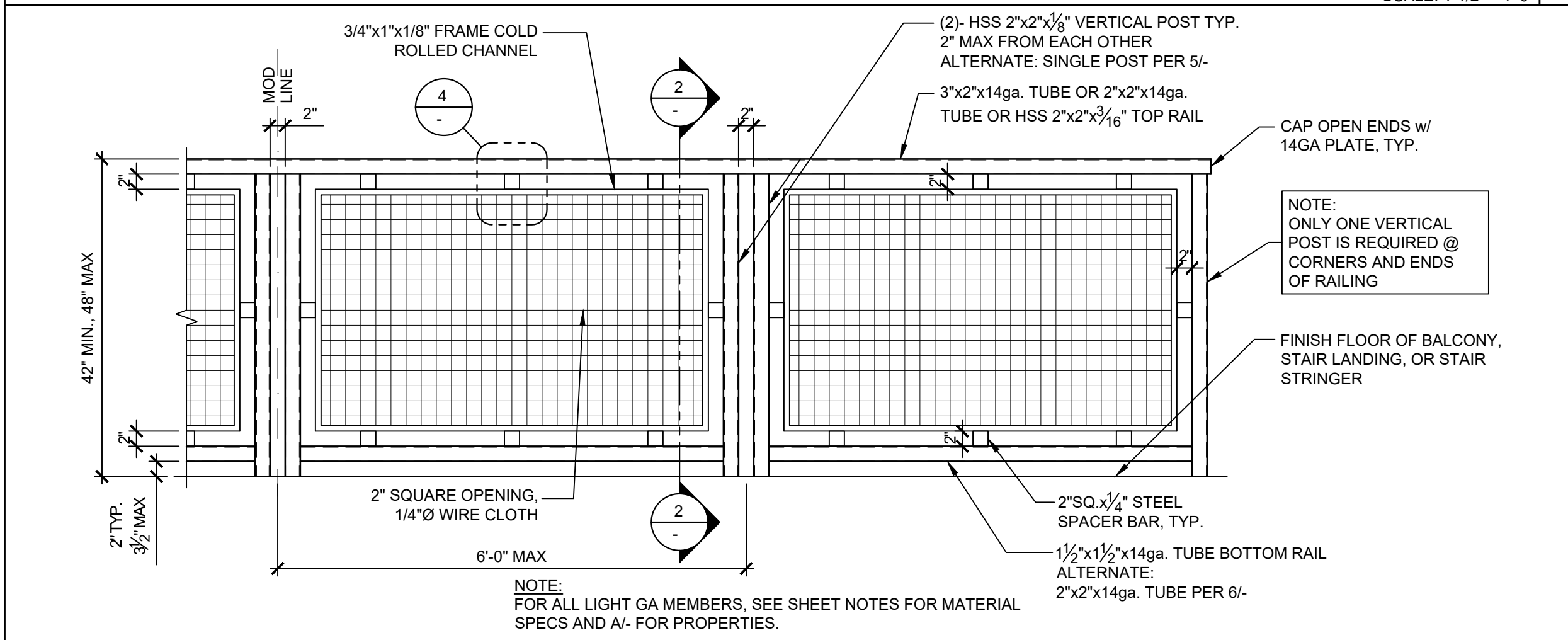
WIRE MESH TO RAIL OR POST SCALE: 3" = 1'-0" 4



ALTERNATE SINGLE POST CONNECTIONS SCALE: 3/4" = 1'-0" 5



PROTECTION OF BELOW GRADE STEEL DETAIL SCALE: 1-1/2" = 1'-0" 2A



TYPICAL GUARDRAIL ELEVATION SCALE: 3/4" = 1'-0" 3

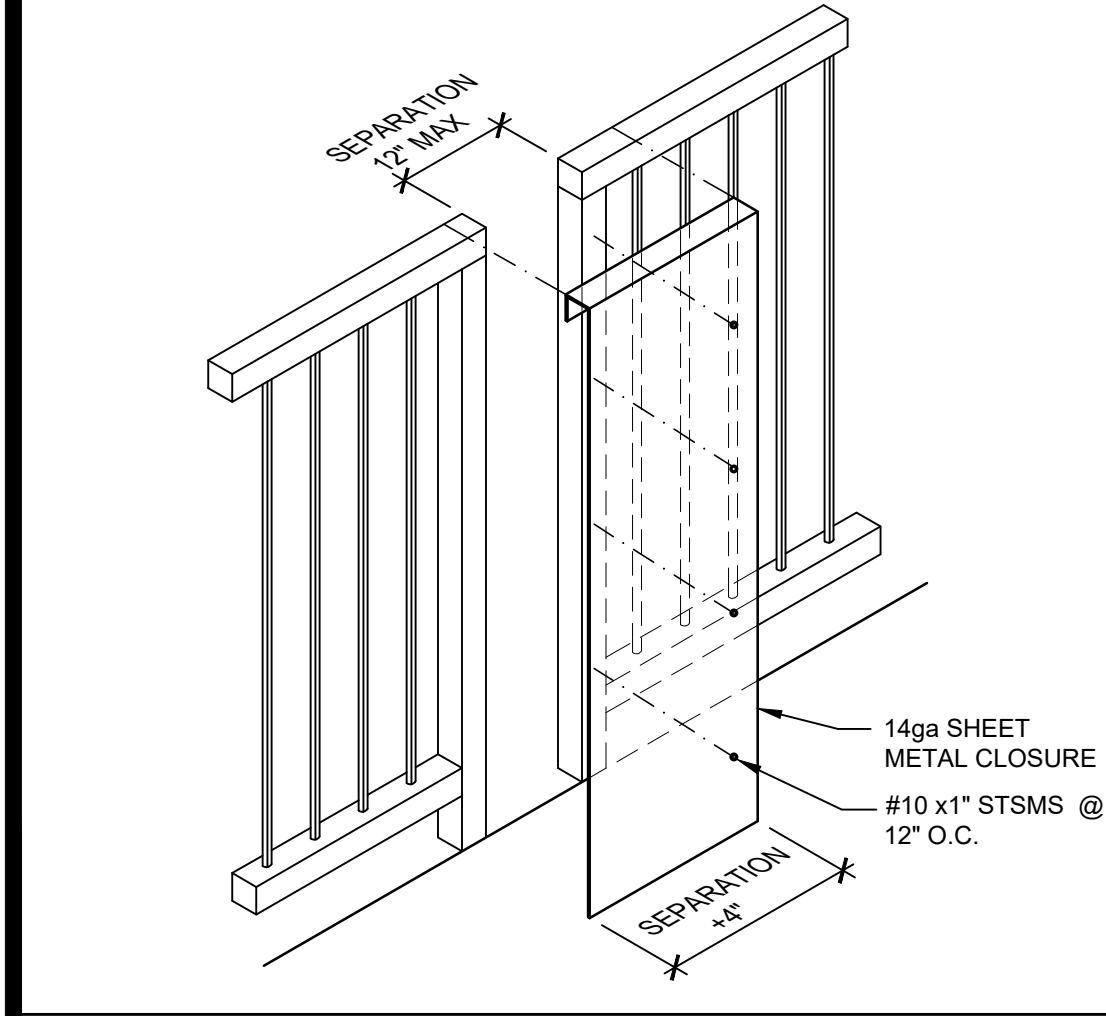
- HSS RAILS AND POSTS: ASTM A500 GRADE B, Fy = 46 KSI.
- LIGHT GAUGE STEEL RAILS AND POSTS: MATERIAL STRENGTH SHALL BE 33 KSI MIN. w/ A MODULUS OF ELASTICITY OF 29,500 KSI ± 3%. ACCEPTABLE STEEL MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:  
ASTM A1011 SS GRADE 33 (Fy=33 KSI)  
ASTM A653 SS GRADE 33 (Fy=33 KSI)  
ASTM A1008 SS GRADE 33 (Fy=33 KSI)
- BASE METAL THICKNESS OF 14GA MATERIAL SHALL BE 0.0677" MIN (0.0713" DESIGN). BASE METAL THICKNESS OF 12GA MATERIAL SHALL BE 0.0968" MIN (0.1017" DESIGN)
- SPECIFIED STEEL TUBE THICKNESSES ARE MINIMUM. THICKER TUBES MAY BE USED.
- ALL STEEL SHALL BE GIVEN A RUST INHIBITIVE COATING.

SHEET NOTES

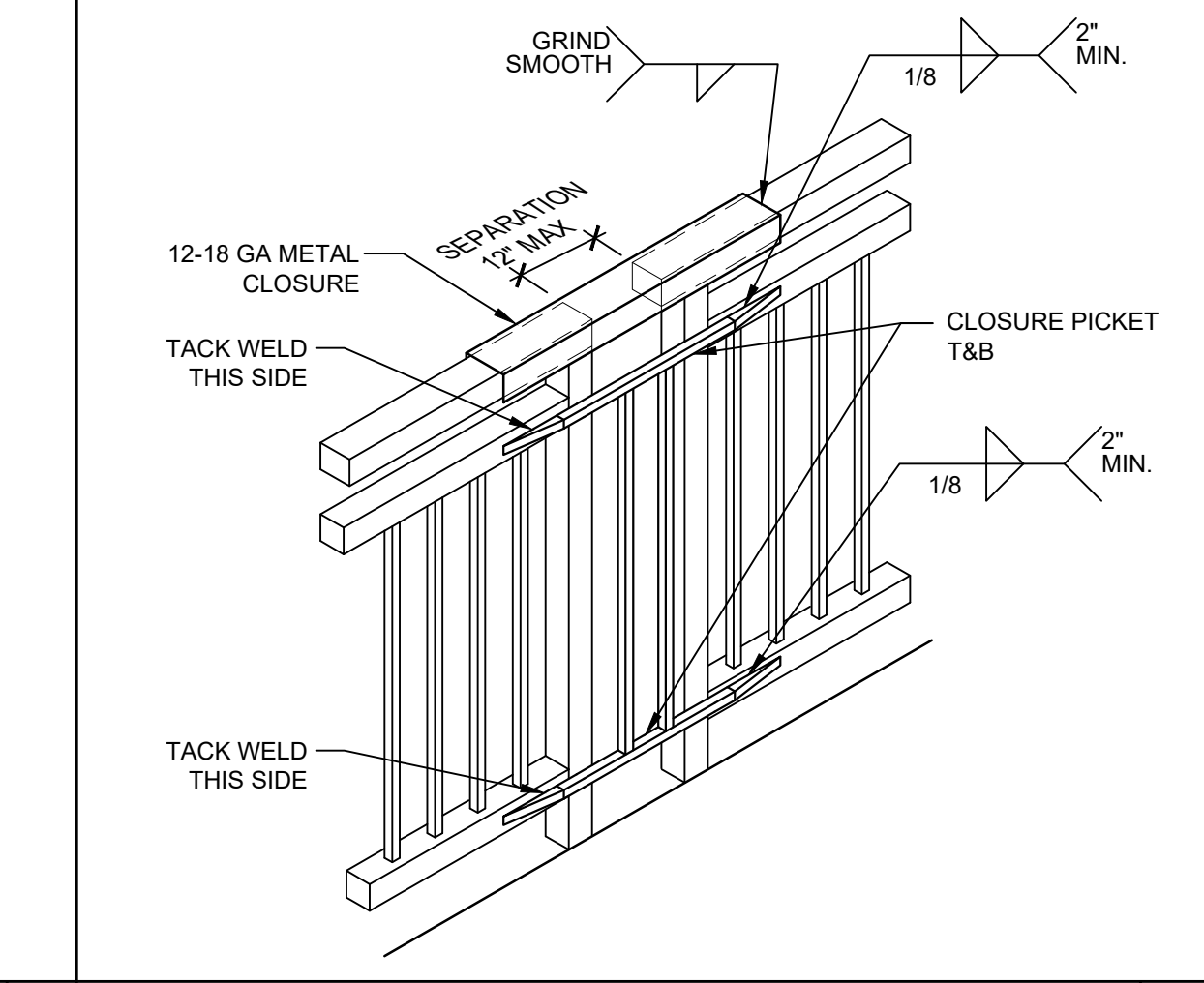
Section	Properties
3"x2"x14GA TUBE	A = 0.675 IN <sup>2</sup> Sx = 0.567 IN <sup>3</sup> Ix = 0.850 IN <sup>4</sup> t = 0.068" IN MIN (0.0713" IN DESIGN)
2"x2"x14GA TUBE	A = 0.533 IN <sup>2</sup> Sx = 0.324 IN <sup>3</sup> Ix = 0.324 IN <sup>4</sup> t = 0.068" IN MIN (0.0713" IN DESIGN)
1 1/2"x12GA TUBE	A = 0.447 IN <sup>2</sup> Sx = 0.146 IN <sup>3</sup> Ix = 0.110 IN <sup>4</sup> t = 0.0968" IN MIN (0.1017" IN DESIGN)
1-1/2"x1-1/2"x14GA TUBE	A = 0.390 IN <sup>2</sup> Sx = 0.173 IN <sup>3</sup> Ix = 0.129 IN <sup>4</sup> t = 0.068" IN MIN (0.0713" IN DESIGN)

ALL SECTION PROPERTIES ARE GROSS SECTION PROPERTIES

MEMBER PROPERTIES A



RAILING @ BLDG SEPARATION N.T.S. 7

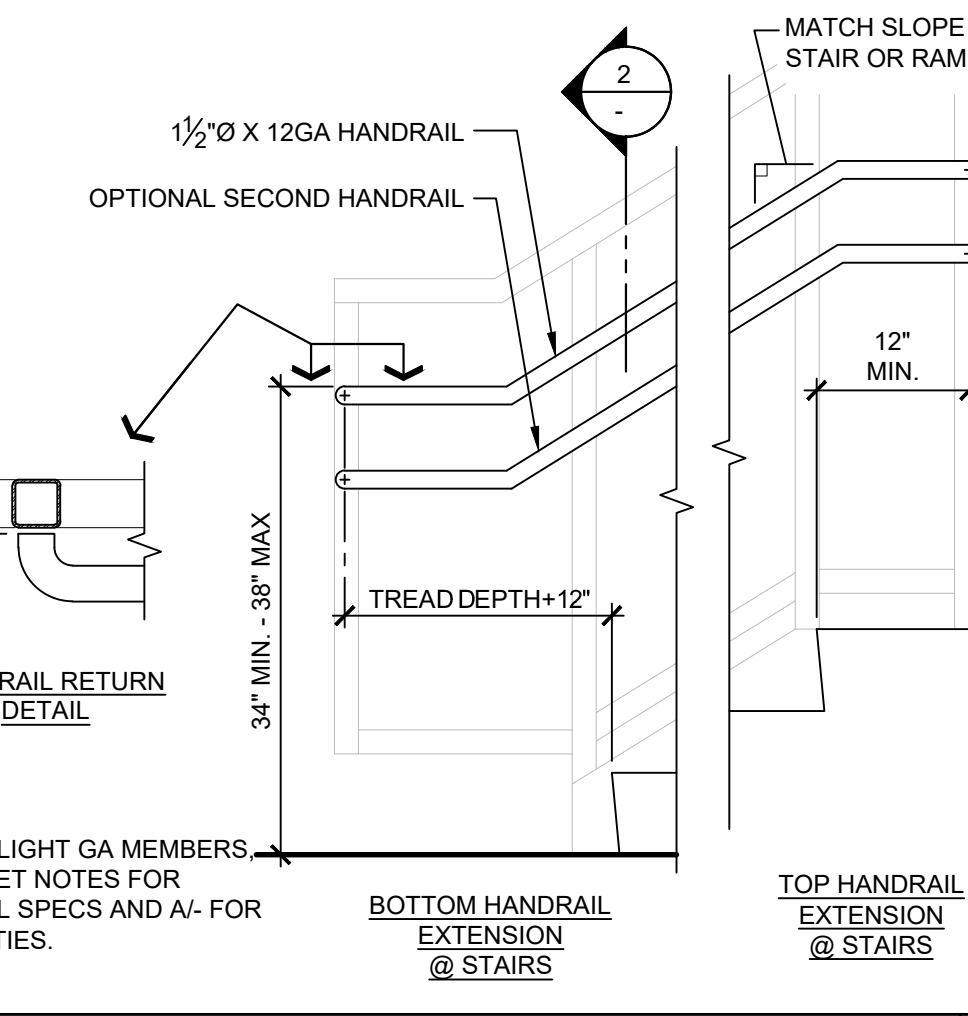


ALT. RAILING @ BLDG SEPARATION N.T.S. 8

BH-36 METAL DECK PROPERTIES & PROFILE					
PLAN DESIGNATION	DECK TYPE	MINIMUM PROPERTIES			DECK PROFILE
		+S IN <sup>3</sup>	-S IN <sup>3</sup>	I IN <sup>4</sup>	
	1 1/2" - 18GA ASC BH-36 GALV DECK PER IAPMO ER #329 (36" WIDE)	0.311	0.329	0.302	

ALLOW DIAPHRAGM SHEAR (8'-0" MAX SPAN)  
1664 PLF w/2" L.W.C. TOPPING (3/8" TOTAL SLAB THICKNESS)  
(4) 1/2" EFFECTIVE PUDDLE WELDS\* OR #12 TEKS SCREWS OR HILTI X-HSN (ESR-2197) 24 PAF's  
(1/2" EFFECTIVE PUDDLE WELDS\* OR #12 TEKS SCREWS @ 12" O.C. MAX @ PARALLEL SUPPORTS)  
\* 1/2" EFFECTIVE PUDDLE WELDS = 1" VISUAL PUDDLE WELD  
SIDE LAP ATTACHMENT TO BE BUTT PUNCHED @ 36" O.C. MAX.

BH-36 DECK PROFILE 9



HANDRAIL EXTENSION DETAIL 10

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**REGISTERED ARCHITECT**  
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No. C12631  
Ren. 2-31-23  
STATE OF CALIFORNIA

**REGISTERED PROFESSIONAL ENGINEER**  
MANNY D. FROST  
No. S3380  
STRUCTURAL  
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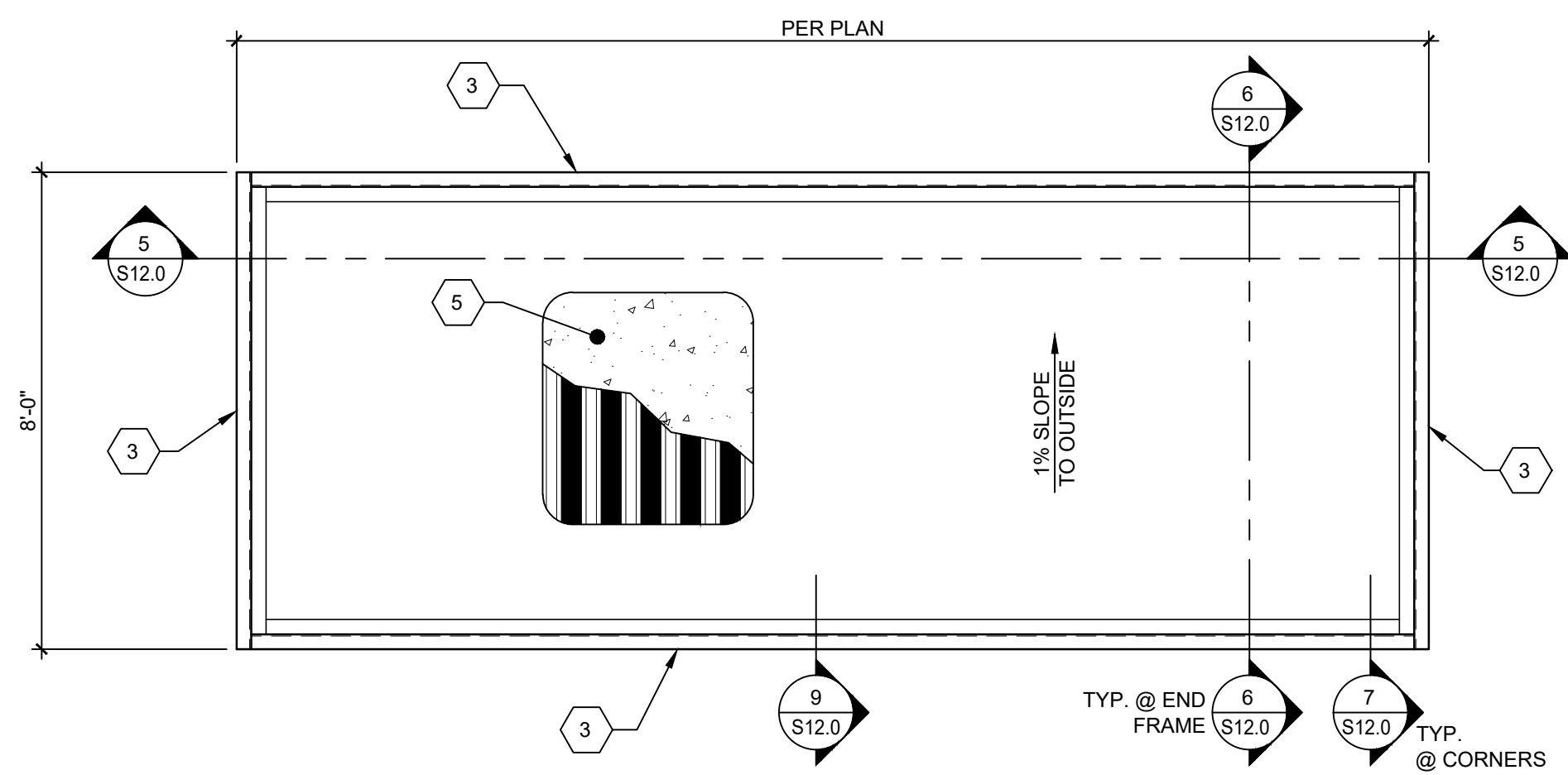
NO.	DESCRIPTION

DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20  
SHEET TITLE: **STAIR RAILING AND GUARDRAIL DETAILS**  
SHEET NUMBER:

**S11.2**

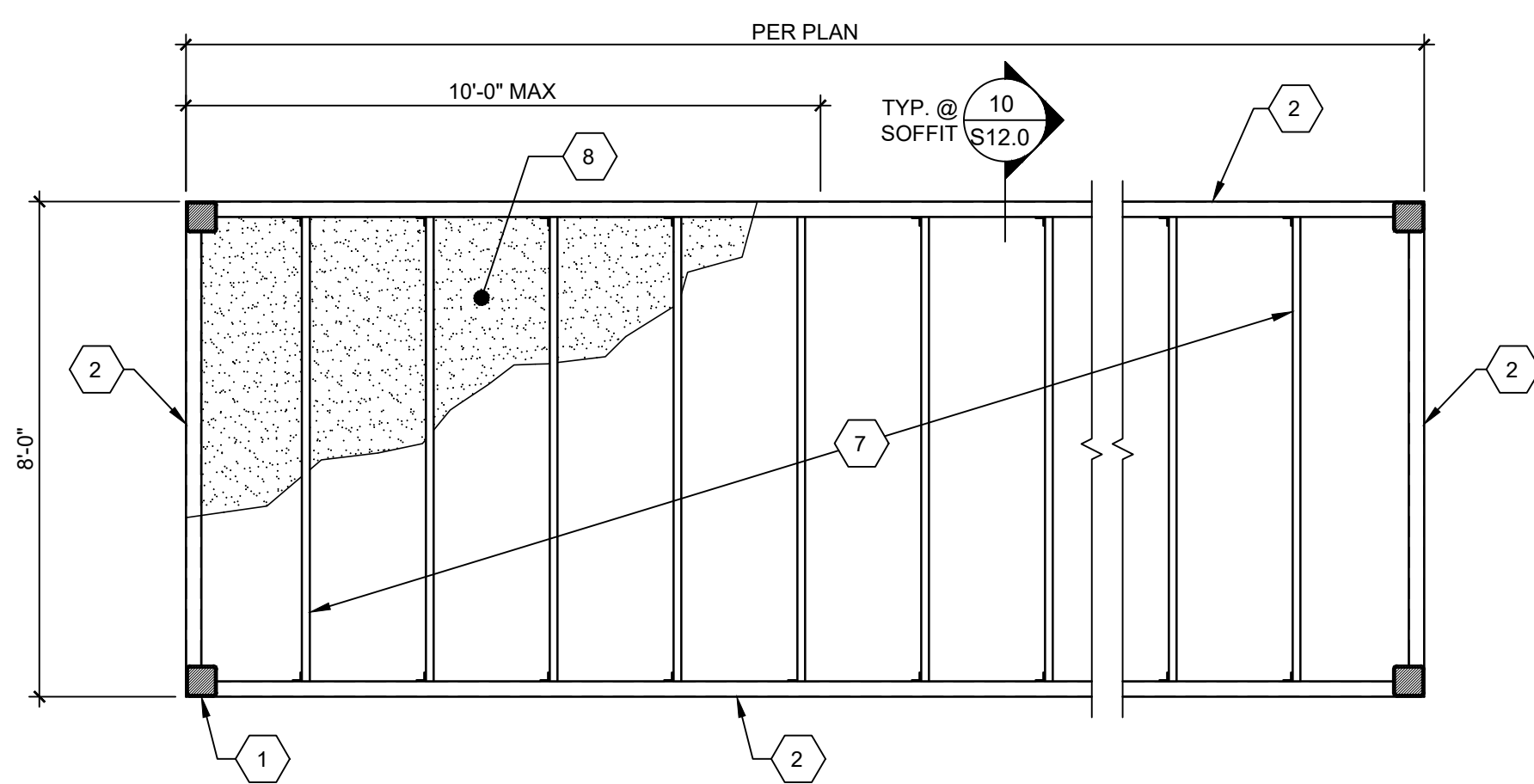
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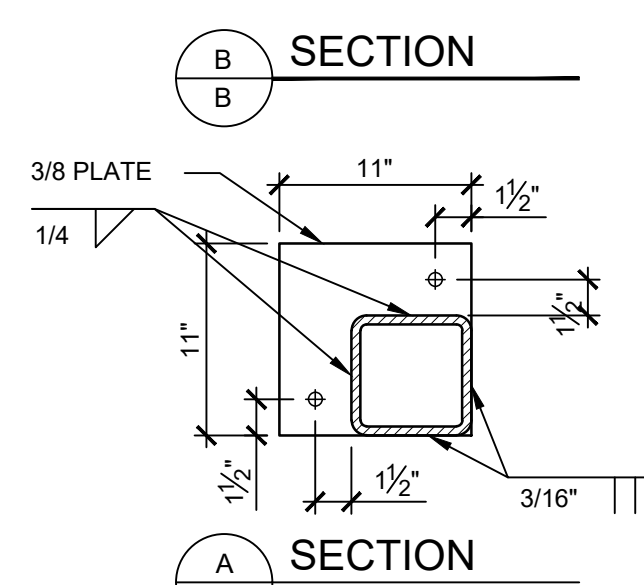
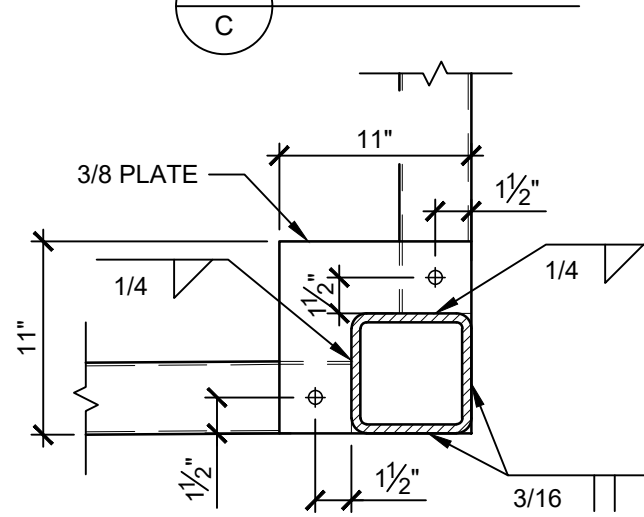
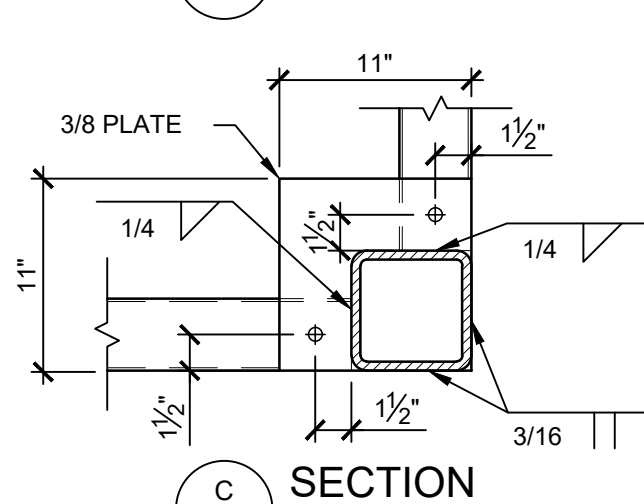
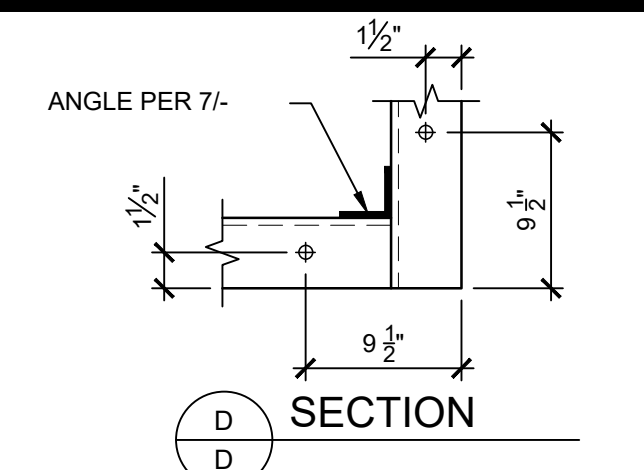
SKYWALK FLOOR FRAMING PLAN

SCALE: 3/8" = 1'-0" 1



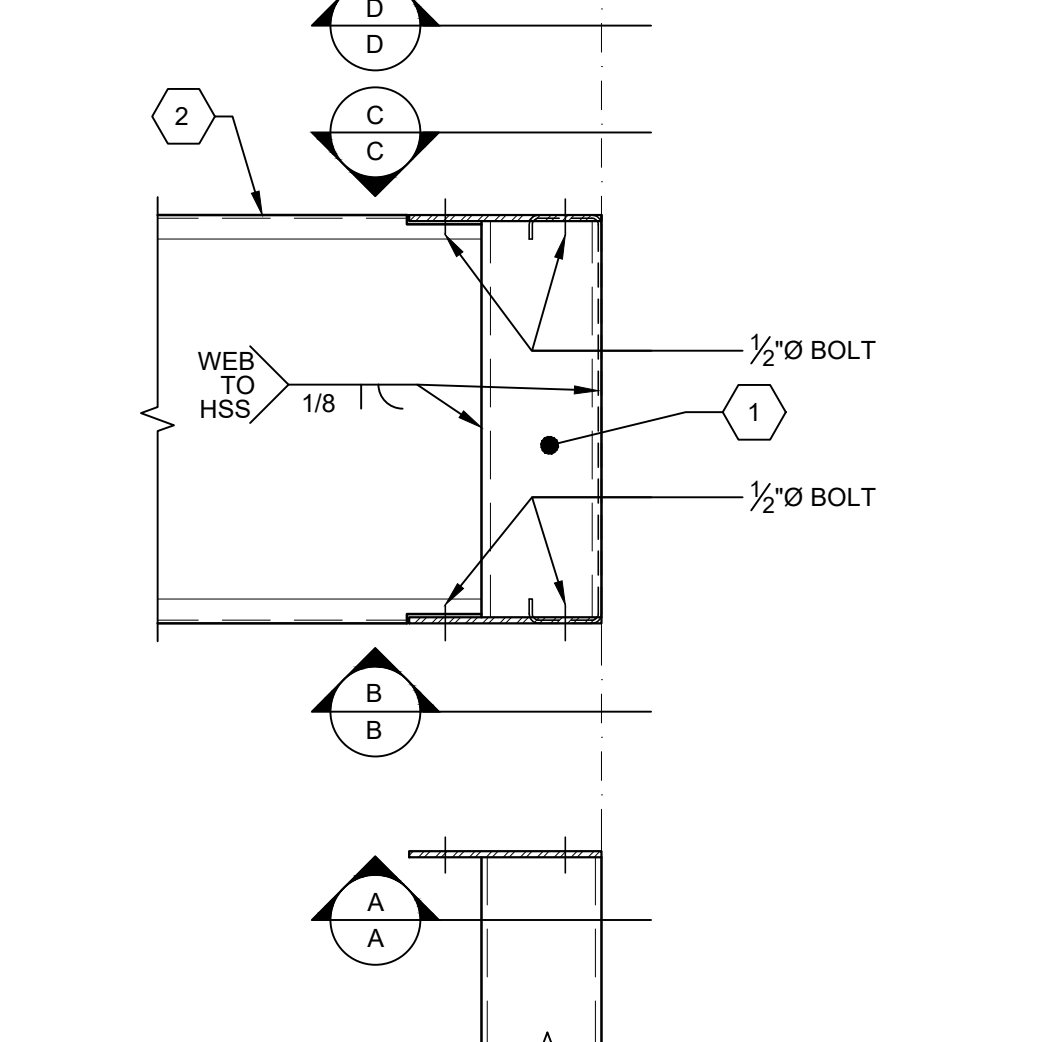
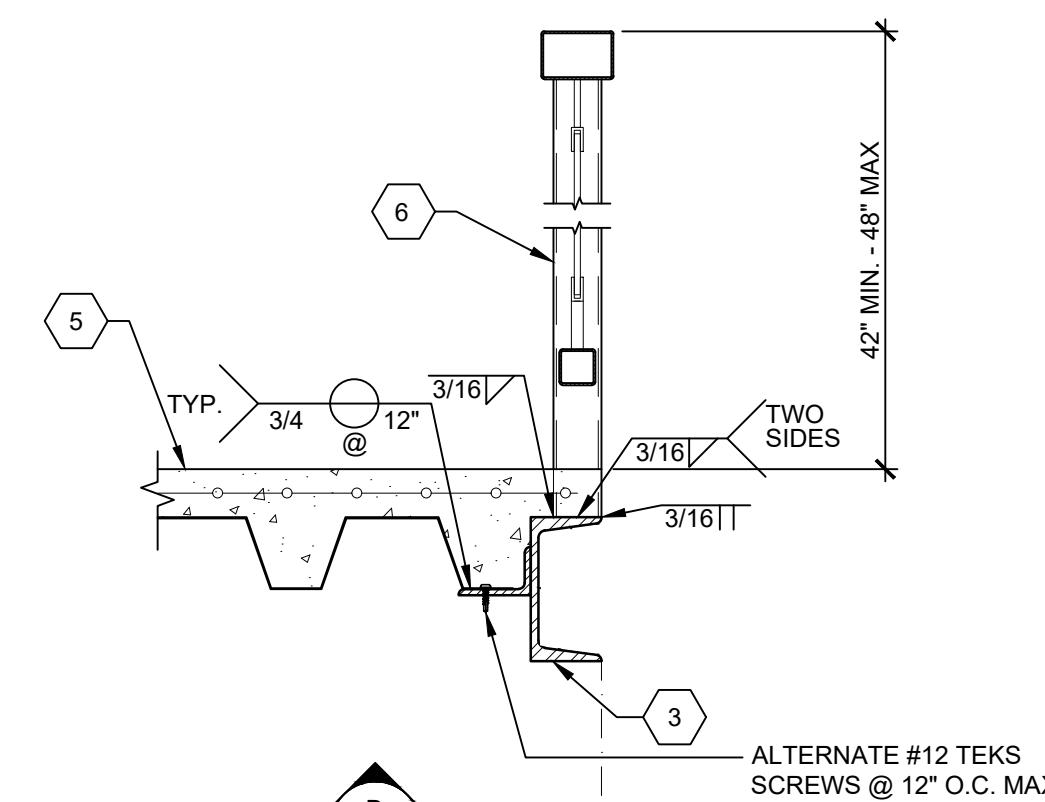
SKYWALK SOFFIT FRAMING PLAN

SCALE: 3/8" = 1'-0" 2



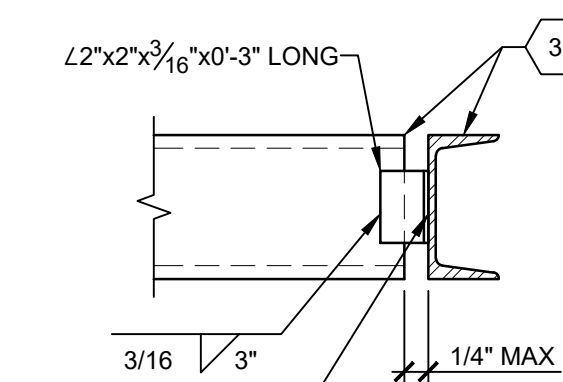
LANDING FLOOR WELDING DETAIL

SCALE: 1-1/2" = 1'-0" 3



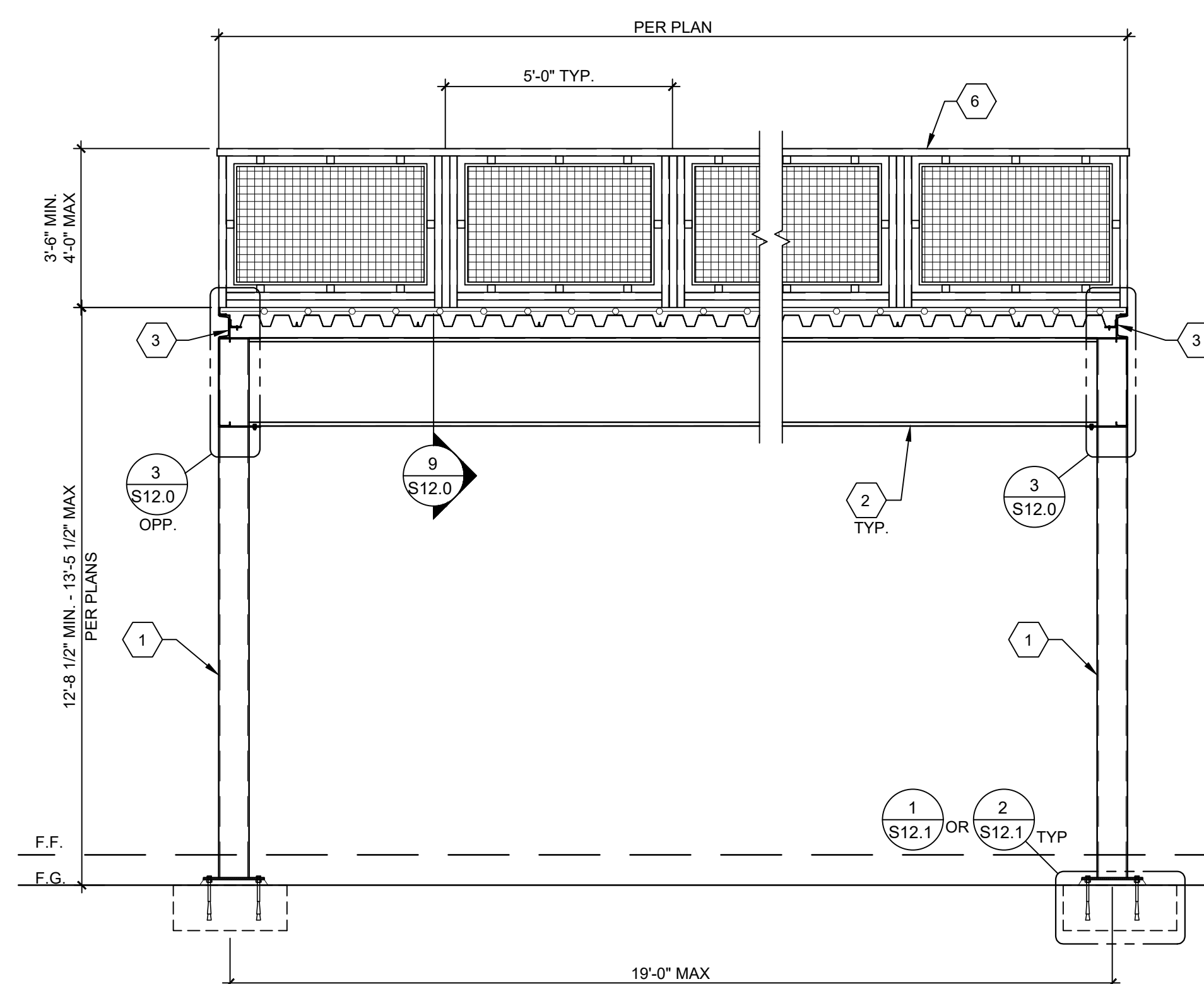
- 1 HSS 8x8x1/4 COL.
  - 2 23x3x10GA FORMED 'C' CHANNEL REFER TO S0.0
  - 3 MC6x15.1 PERIMETER BEAM
  - 4 NOT USED
  - 5 2" LIGHT WEIGHT CONCRETE FILL (w/MEDIUM BROOM FINISH) OVER 18 GA N-32 OR NH-32 DECK PER 3A/S12.1 OR 3B/S12.1 (OR 3W OR 3WH DECK, PER 4/S2.1)
  - 6 GUARDRAIL PER SHEET S11.0
  - 7 60S162-33 STEEL STUDS SPACED @ 24" O.C.
  - 8 STUCCO FINISH OVER 3/8" RIB METAL LATH
- NOTE:  
PROVIDE 7" MIN SEISMIC GAP BETWEEN SKYWALK-TO-BALCONY

KEY NOTES



CORNER CONNECTION

SCALE: 1-1/2" = 1'-0" 7



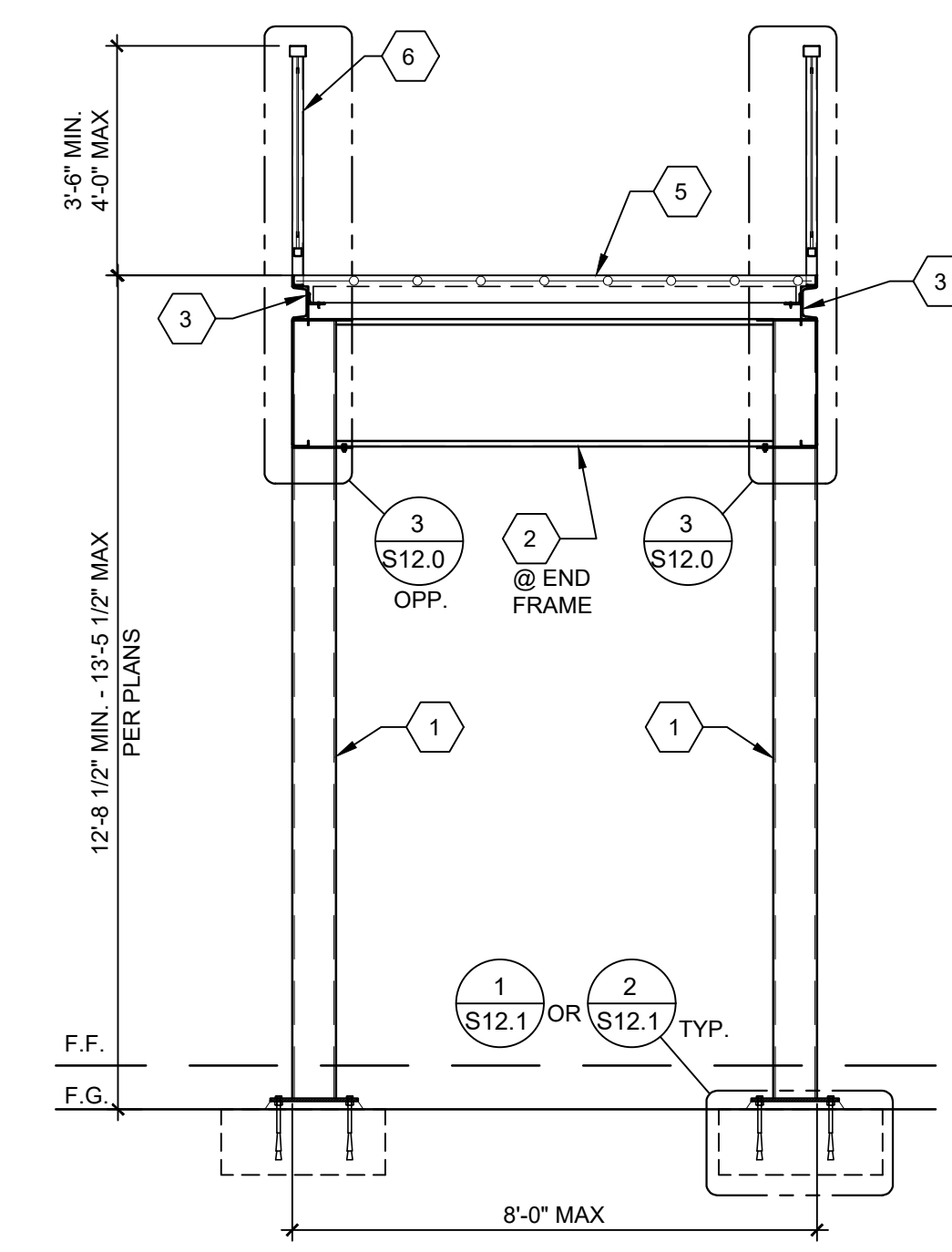
SKYWALK FRAME SECTION

SCALE: 3/8" = 1'-0" 5

**EXTERIOR PLASTER**

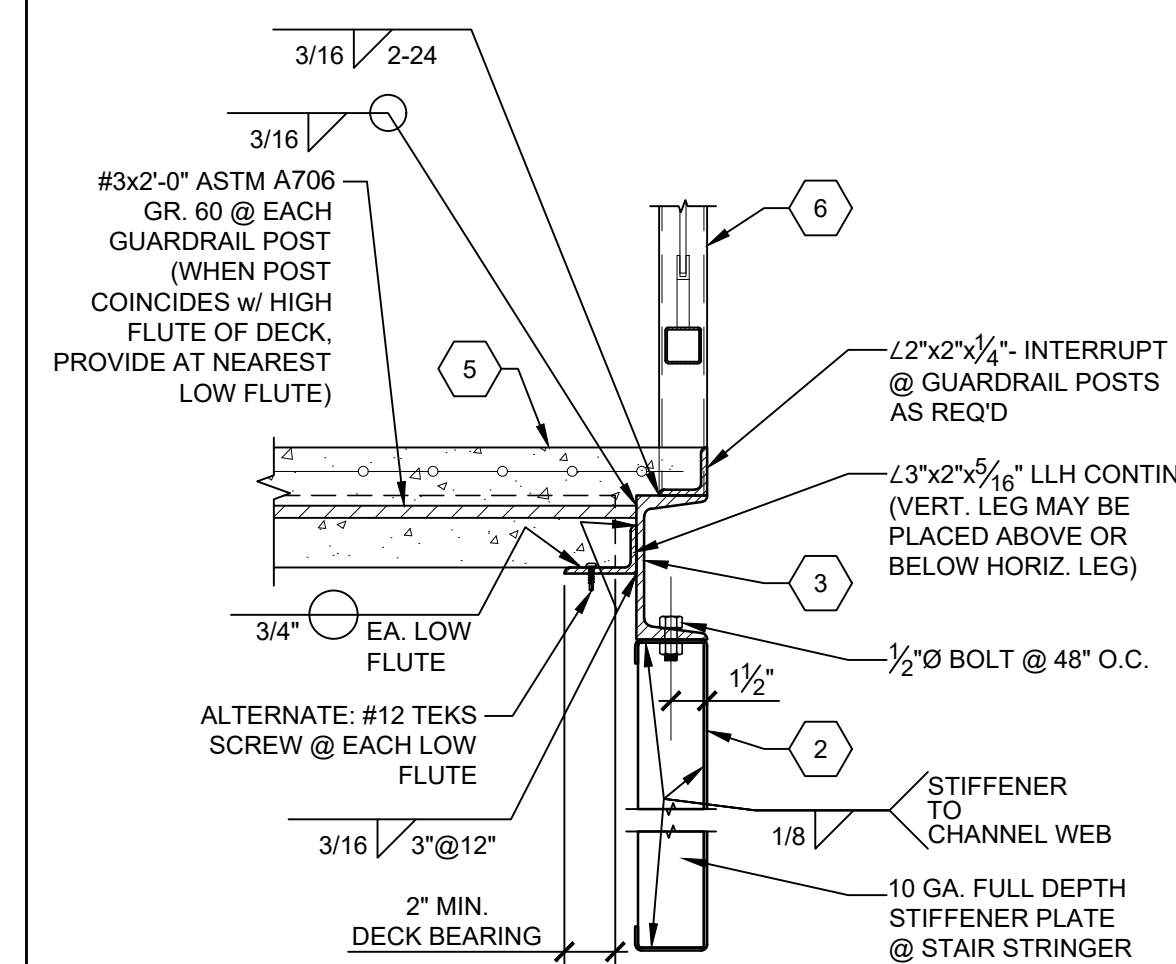
LATHING AND PLASTERING MATERIALS AND ACCESSORIES SHALL BE MARKED BY THE MANUFACTURER'S DESIGNATION TO INDICATE COMPLIANCE WITH THE APPROPRIATE STANDARDS REFERENCED IN THIS SECTION AND STORED IN SUCH A MANNER TO PROTECT THEM FROM THE WEATHER. PER C.B.C. 2507.1.

LATHING AND PLASTERING MATERIALS SHALL CONFORM TO THE STANDARDS LISTED IN C.B.C. TABLE 2507.2 AND C.B.C. CHAPTER 35 AND, WHERE REQUIRED FOR FIRE PROTECTION, SHALL ALSO CONFORM TO THE PROVISIONS OF C.B.C. CHAPTER 7, PER C.B.C. 2507.2.



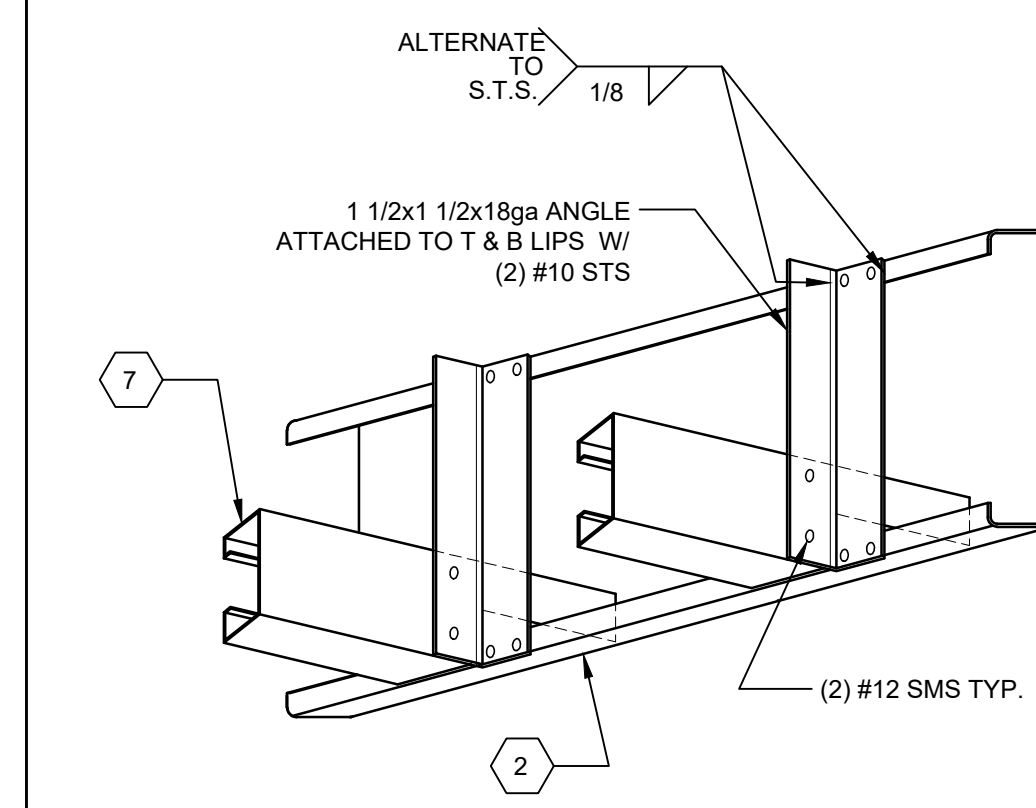
SKYWALK END FRAME SECTION

SCALE: 3/8" = 1'-0" 6



FLOOR FRAME SECTION CONN.

SCALE: 1-1/2" = 1'-0" 9



SKYWALK SOFFIT ATTACHMENT

SCALE: 1-1/2" = 1'-0" 10



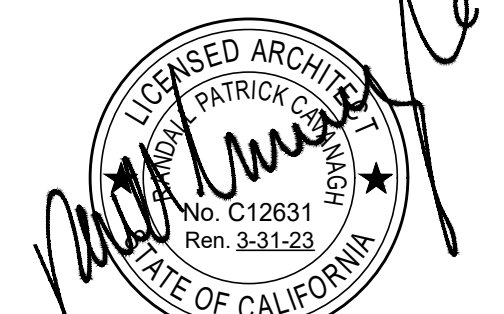
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(2) 72'x40' 2 STORY  
CLASSROOM BUILDINGS

**SITE SPECIFIC PROJECT NAME**  
GLENDALE USD  
GLENOAKS  
ELEMENTARY SCHOOL

MANUFACTURER PROFESSIONAL OF RECORD ON PC



09/20/2021  
RST#20203

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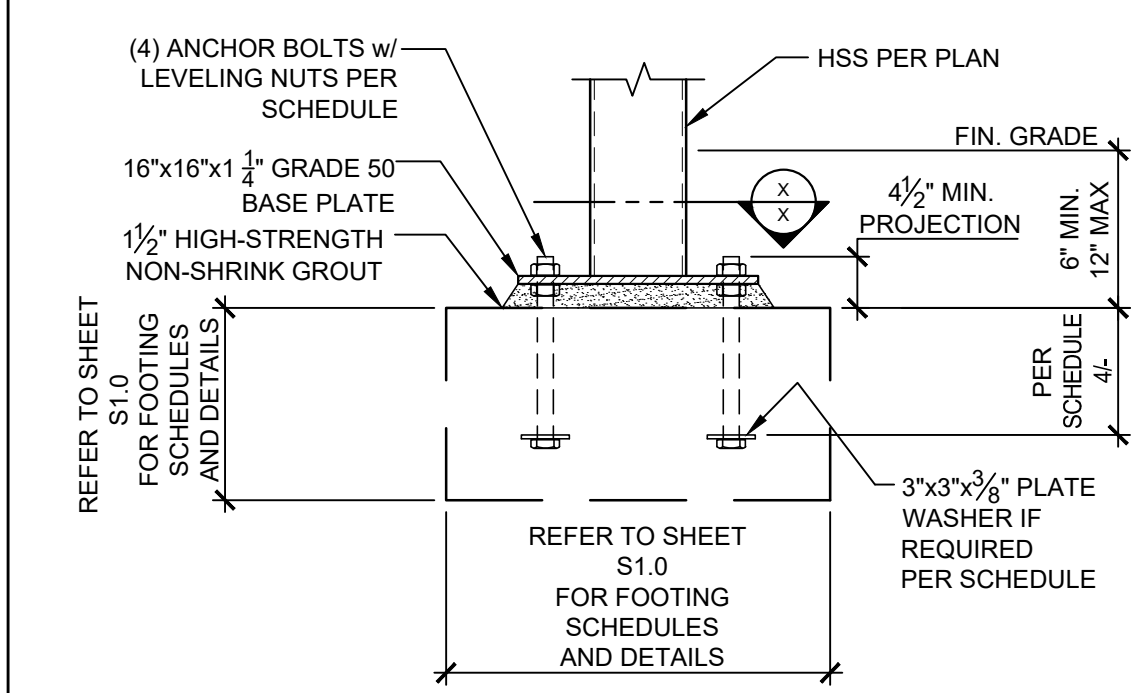
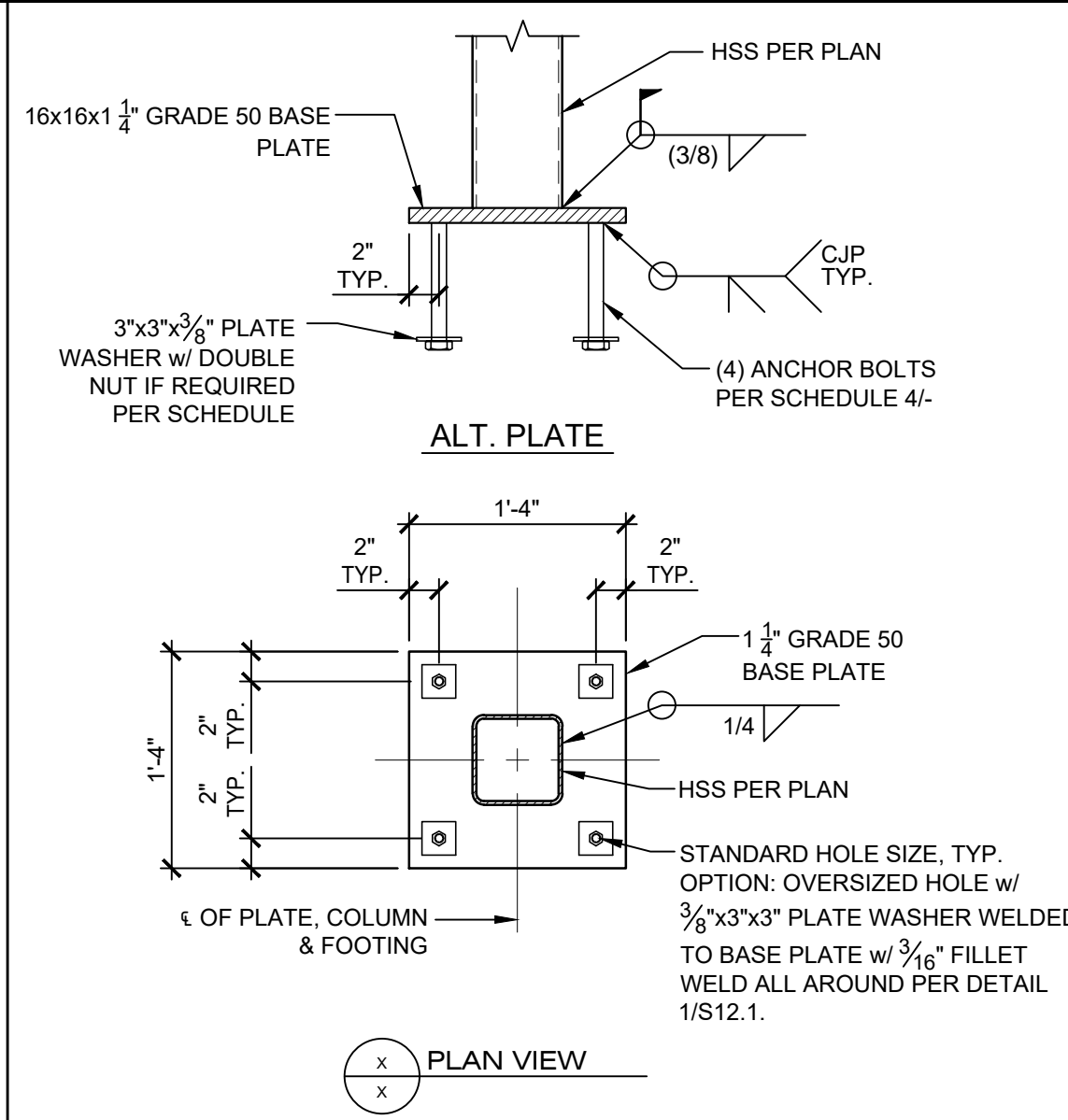
REVISIONS


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20

SHEET TITLE:  
SKYWALK  
FRAMING PLANS  
AND DETAILS

SHEET NUMBER:  
**S12.0**

BID SET 10/01/2021



**NOTES:**  
 1. FOOTING DESIGN IS BASED ON ALLOWABLE SOIL BEARING PRESSURE =2000 PSF.  
 2. SEE SHEET S1.0 FOR CONCRETE AND REINFORCING NOTES.

N-32 & NH-32 METAL DECK PROPERTIES & PROFILE							
PLAN SYMBOL	DECK TYPE	MINIMUM PROPERTIES				ALLOWABLE DIAPHRAGM SHEAR (8'-0" MAX SPAN)	DECK PROFILE
		S <sub>y</sub> IN <sup>2</sup>	S <sub>x</sub> IN <sup>2</sup>	I <sub>y</sub> IN <sup>4</sup>	I <sub>x</sub> IN <sup>4</sup>		
	3"-18ga ASC N-32 GALV DECK PER ICC ESR #2408 (32" WIDE)	0.693	0.734	1.155	1.275	1171 P.L.F. w/ 2" L.W.C. TOPPING (5" TOTAL SLAB THICKNESS)	 • (3) 1/2" EFFECTIVE FUSION WELDS* OR #12 TEKS SCREWS × (2) ADDITIONAL 1/2" EFFECTIVE FUSION WELDS* OR #12 TEKS SCREWS @ NH-32 DECK * 1/2" EFFECTIVE FUSION WELD = 1" VISUAL FUSION WELD **SIDE LAP ATTACHMENT TO BE BUTTUN PUNCHED @ 36" O.C. MAX.
	3"-18ga ASC NH-32 GALV DECK PER IAPMO ER #0329 (32" WIDE)	0.661	0.715	1.121	1.275	1606 P.L.F. w/ 2" L.W.C. TOPPING (5" TOTAL SLAB THICKNESS)	

N-32 DECK PROFILE

NOT TO SCALE 3A

3W & 3WH METAL DECK PROPERTIES & PROFILE						
PLAN SYMBOL	DECK TYPE	MINIMUM PROPERTIES		ALLOWABLE DIAPHRAGM SHEAR (8'-0" MAX SPAN)	DECK PROFILE	
		S <sub>spot</sub> IN <sup>2</sup> /FT	I <sub>y</sub> IN <sup>4</sup> /FT			
	3"-18ga ASC 3W GALV DECK PER ICC ESR #2408 (36" WIDE)	0.771	1.200	1517 P.L.F. w/ 2" L.W.C. TOPPING (5" TOTAL SLAB THICKNESS)	 • (4) 1/2" EFFECTIVE FUSION WELDS* OR #12 TEKS SCREWS * 1/2" EFFECTIVE FUSION WELD = 1" VISUAL FUSION WELD **SIDE LAP ATTACHMENT TO BE BUTTUN PUNCHED @ 36" O.C. MAX.	
	3"-18ga ASC 3WH GALV DECK PER IAPMO UES ER #0329 (36" WIDE)	0.704	1.113	1653 P.L.F. w/ 2" L.W.C. TOPPING (5" TOTAL SLAB THICKNESS)		

3W DECK PROFILE

NOT TO SCALE 3B

NOT USED 1

BASE PLATE DETAILS SCALE: 1" = 1'-0" 2

3W DECK PROFILE NOT TO SCALE 3B

SPREAD FOOTING PER 2/S12.1	ANCHOR BOLTS PER 2/S12.1				
CORNER COLUMN FOUNDATIONS	ANCHOR TYPE & GRADE	ANCHOR DIAMETER	ANCHOR EMBEDMENT	PLATE WASHER REQUIRED	PULL TEST
SIZE	ASTM F1554 GRADE 36(F <sub>y</sub> =36 KSI) CAST-IN-PLACE ANCHOR BOLT	1"	18"	YES	NOT REQUIRED
PER FOUNDATION PLANS	GRADE 36(F <sub>y</sub> =36 KSI) ALL-THREAD ROD CAST-IN-PLACE ANCHOR w/ DOUBLE NUTS	1"	18"	YES	NOT REQUIRED

SKYWALK BASE PLATE DETAILS AND ANCHOR BOLT SCHEDULE

SCALE: 1" = 1'-0" 4

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SITE SPECIFIC PROJECT NAME  
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 GLENOAKS  
 ELEMENTARY SCHOOL

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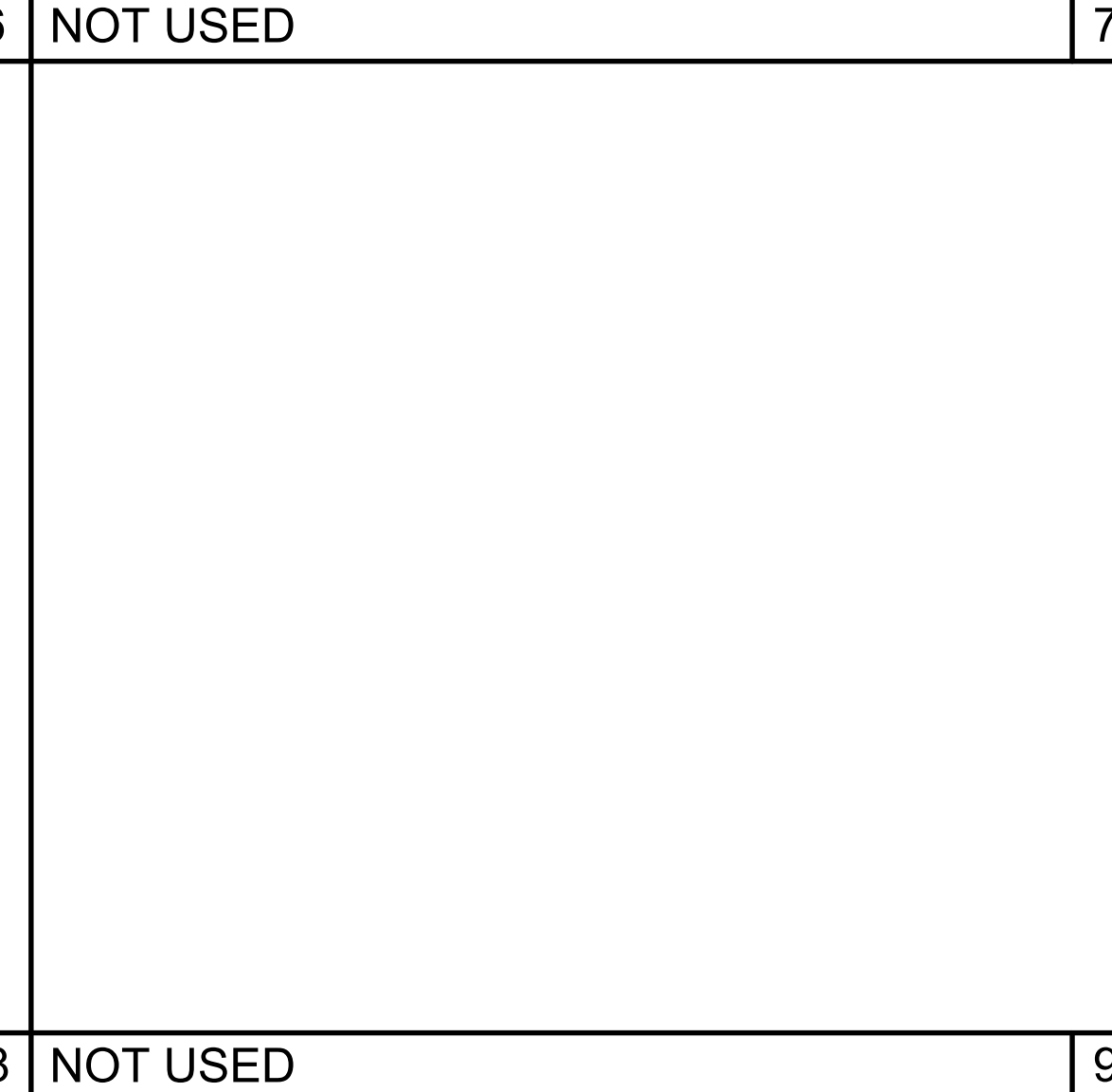
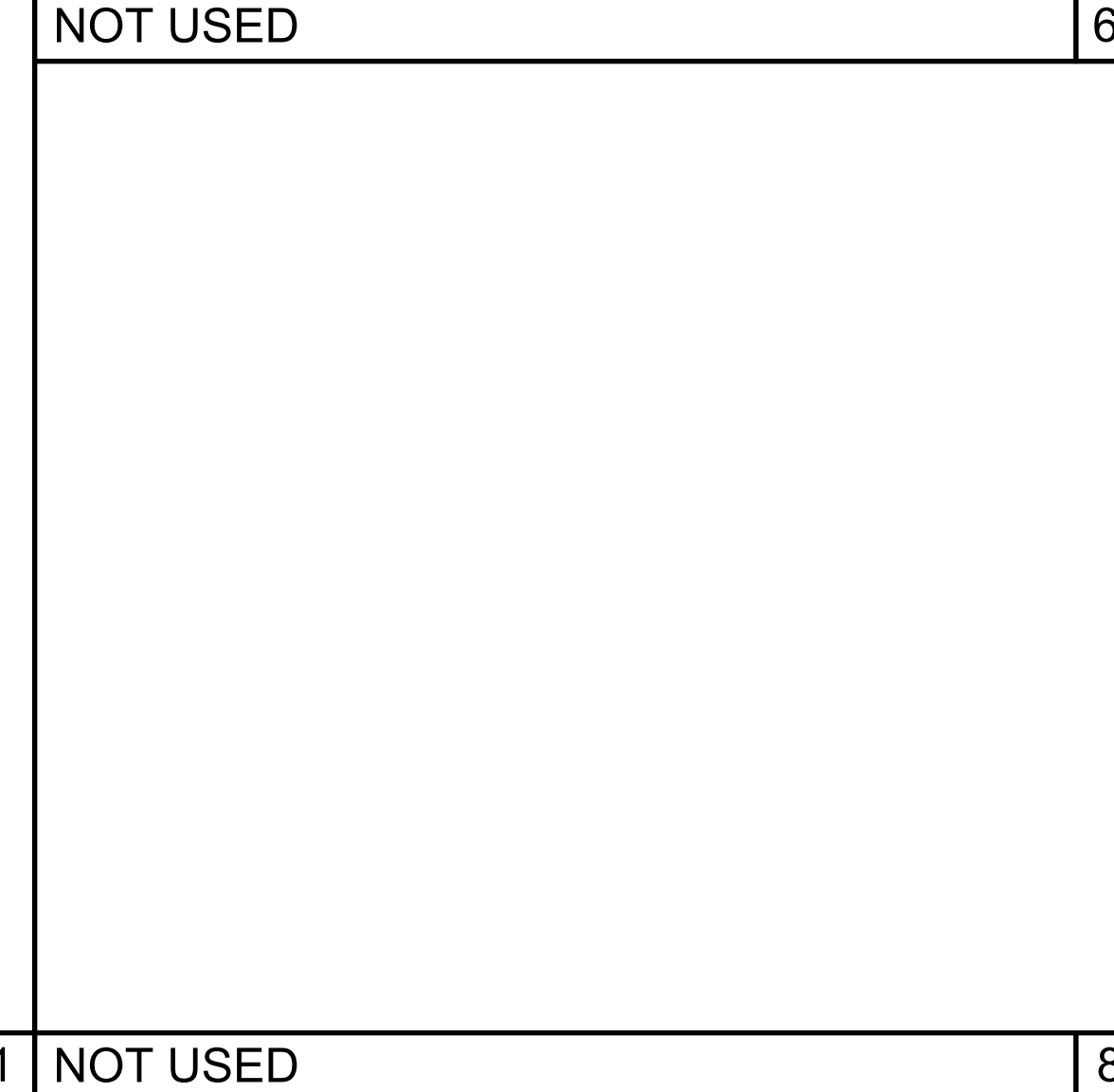
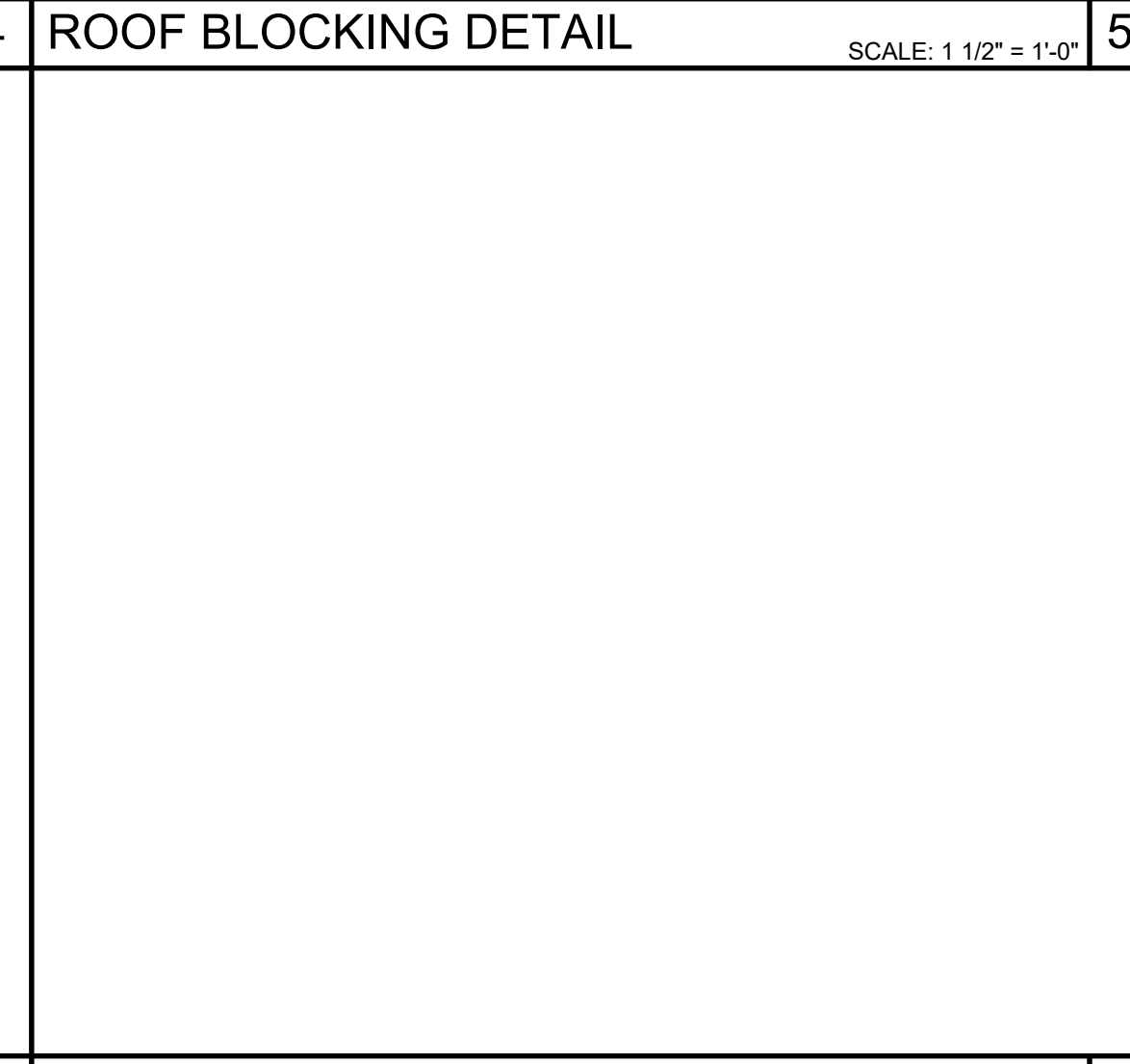
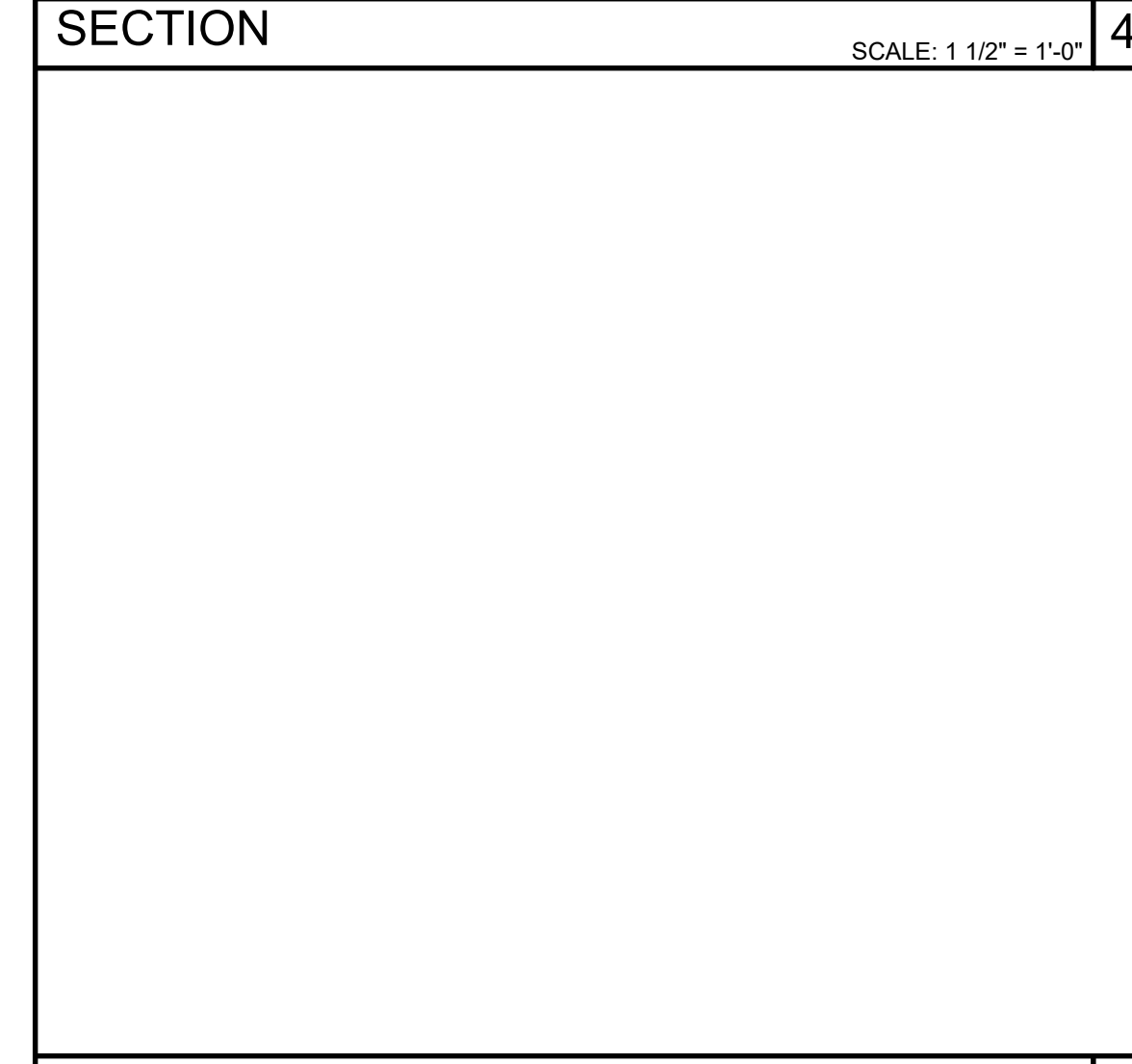
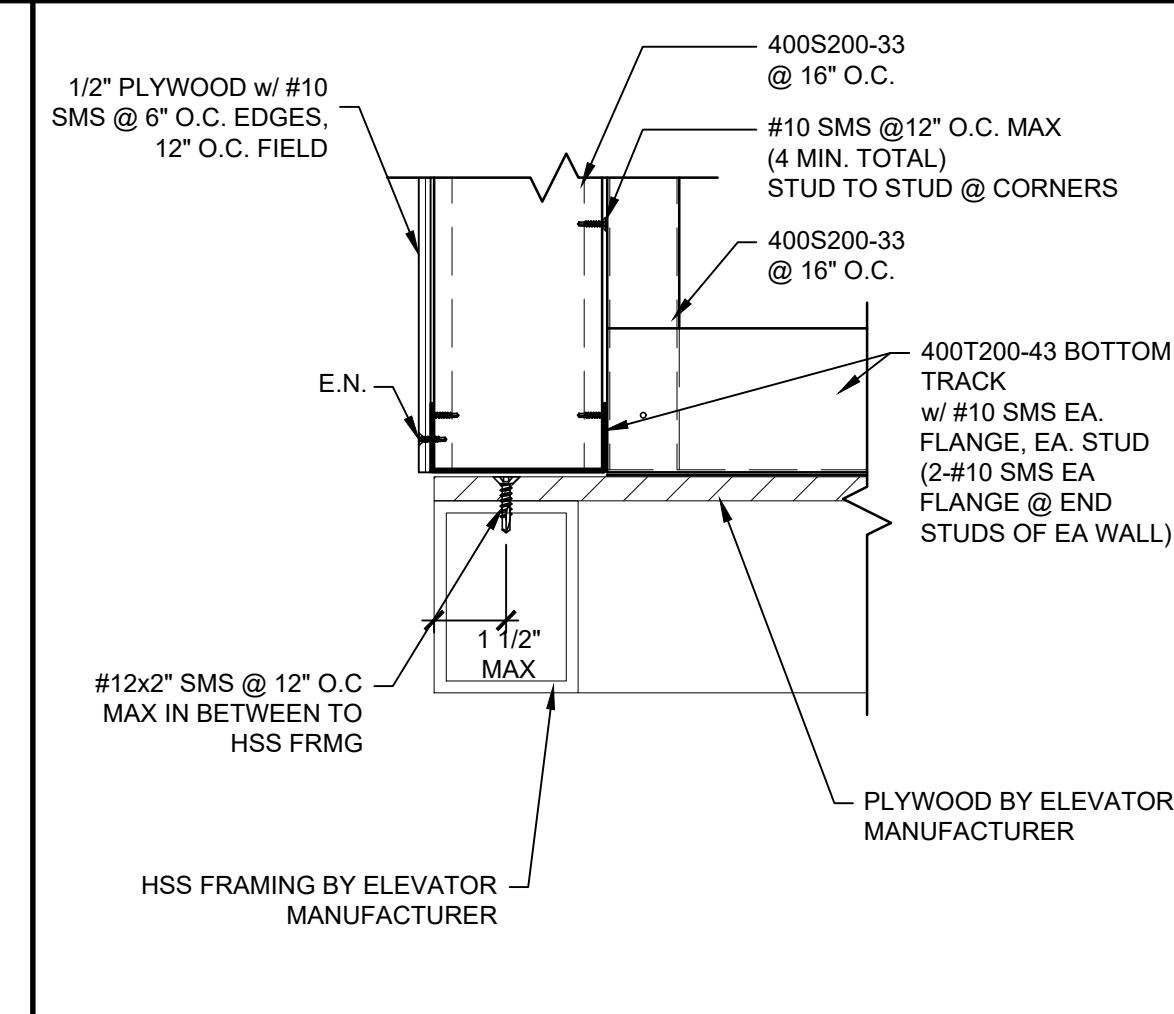
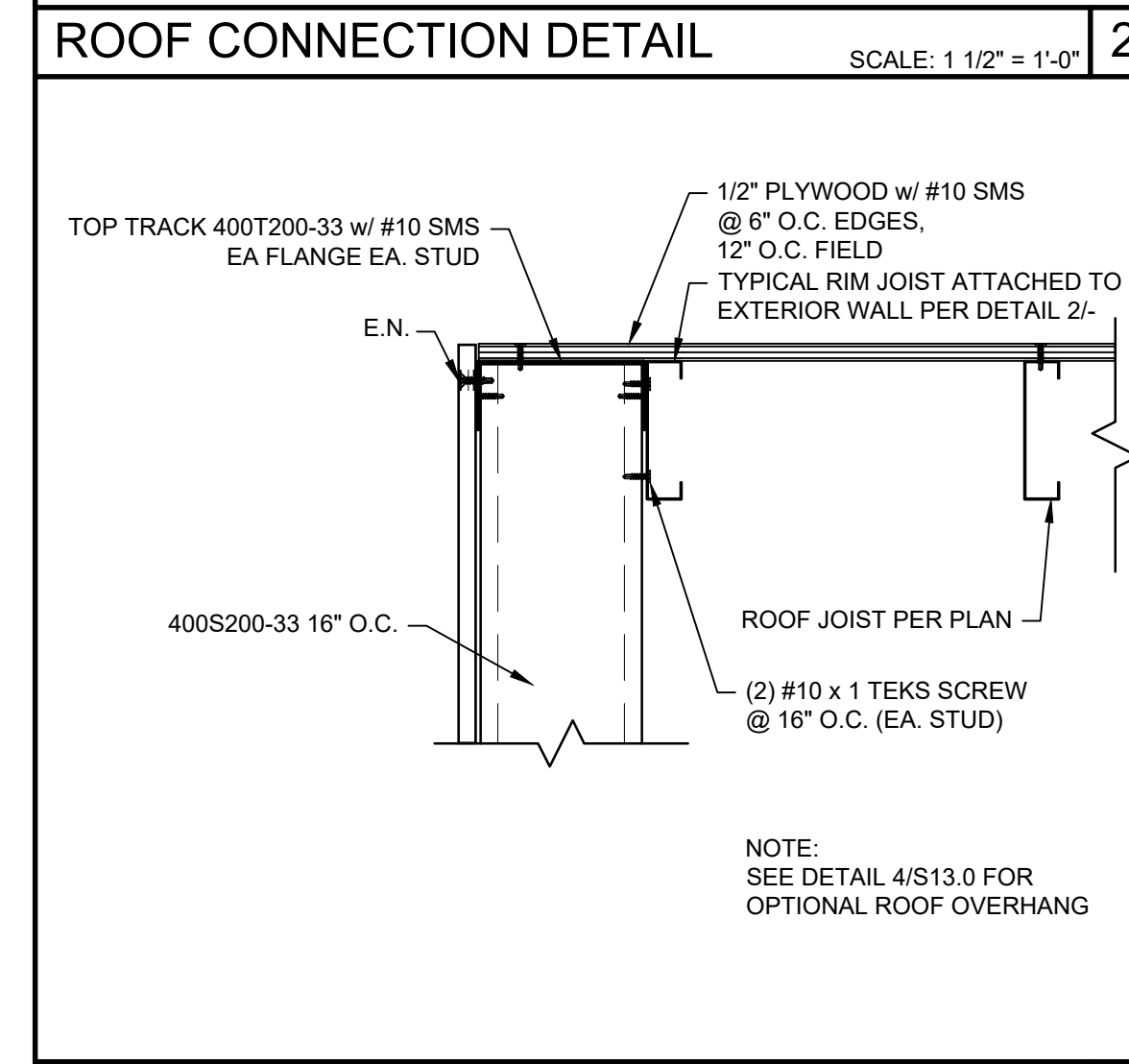
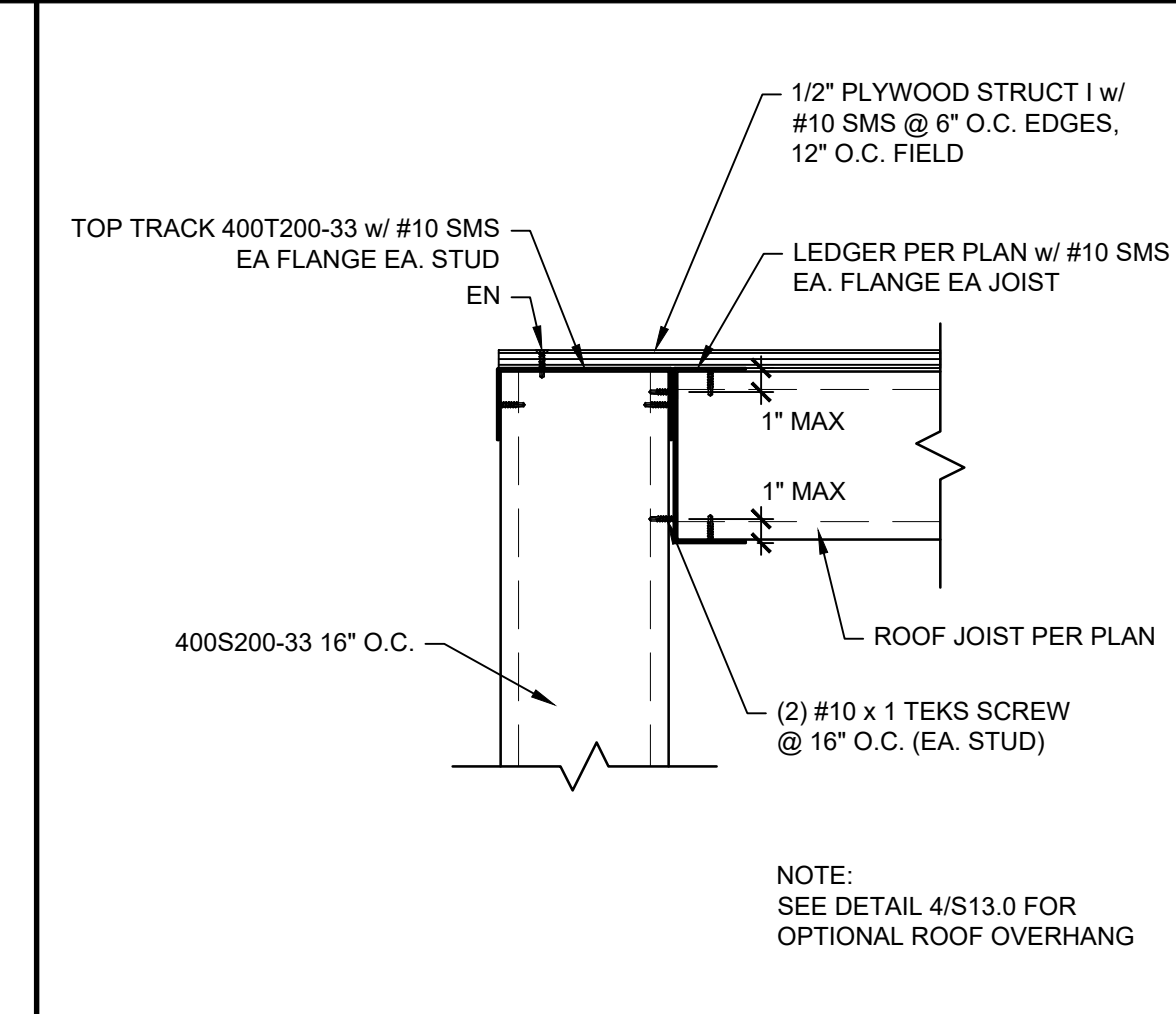
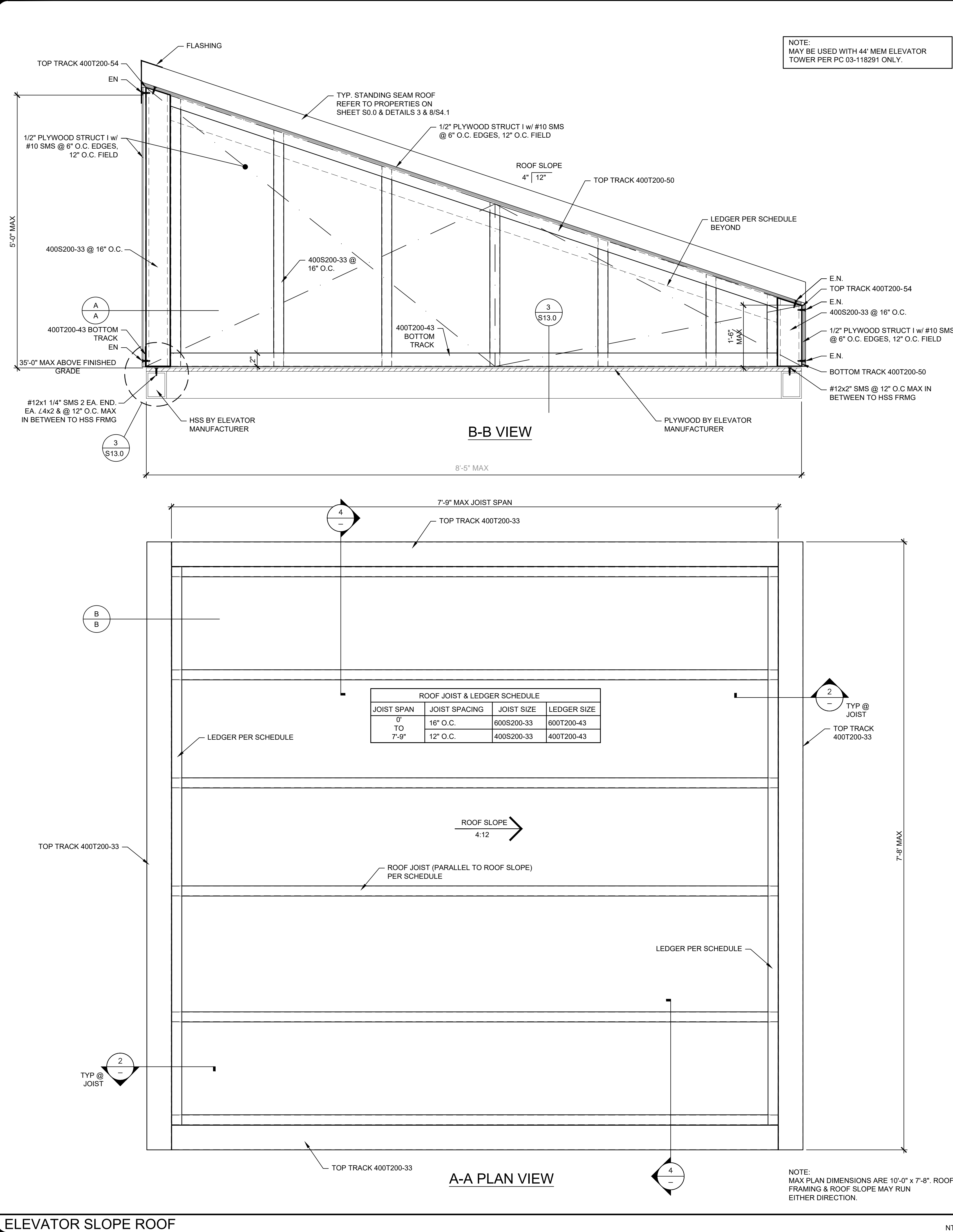
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 SCALE: AS NOTED  
 DATE: 07/05/21  
 PROJECT NO: 1614-20  
 SHEET TITLE:  
 SKYWALK DETAILS  
 SHEET NUMBER:

S12.1

BID SET 10/01/2021



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**SITE SPECIFIC PROJECT NAME**  
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ELEMENTARY SCHOOL

**MANUFACTURER PROFESSIONAL OF RECORD ON PC**

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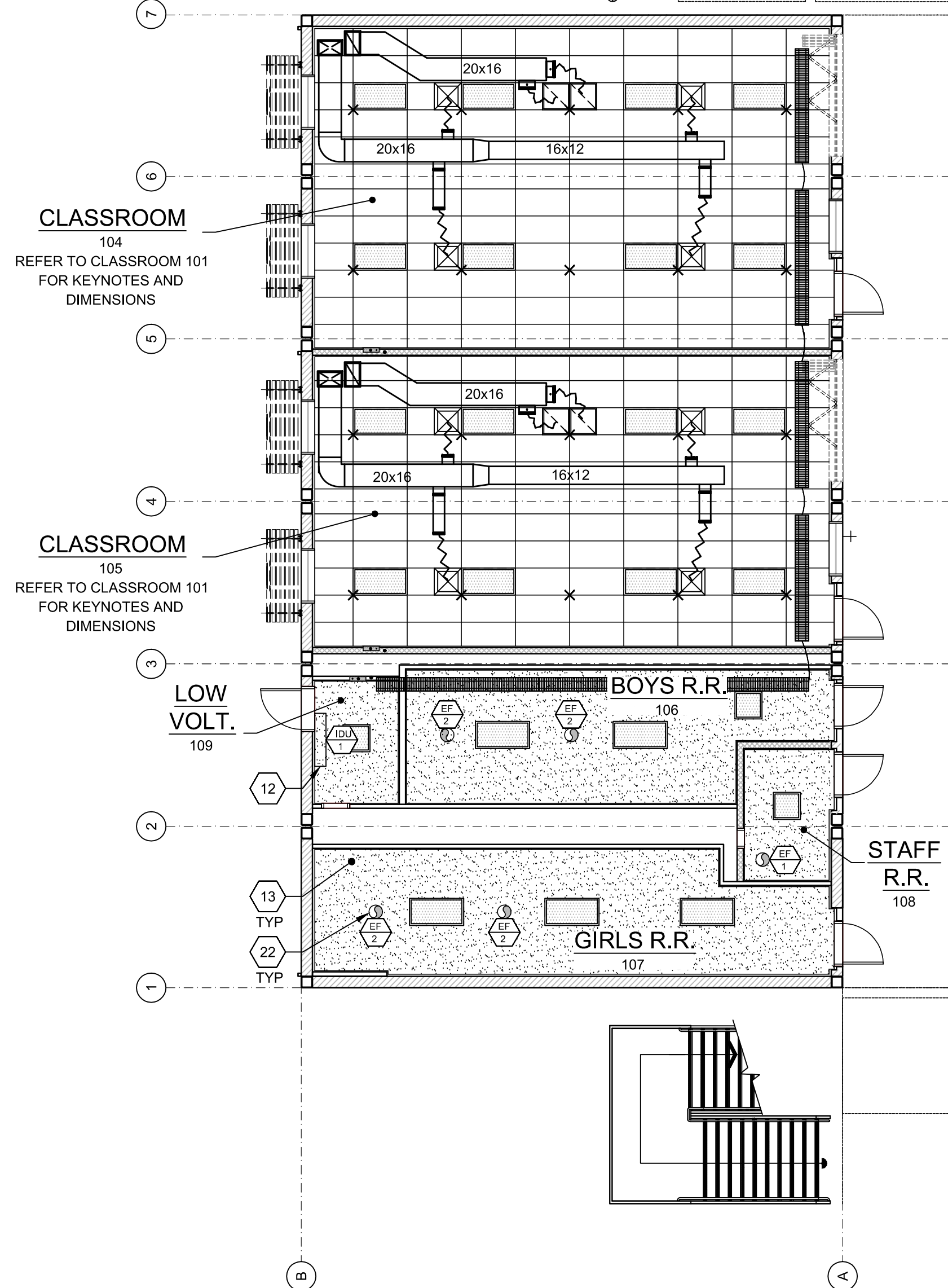
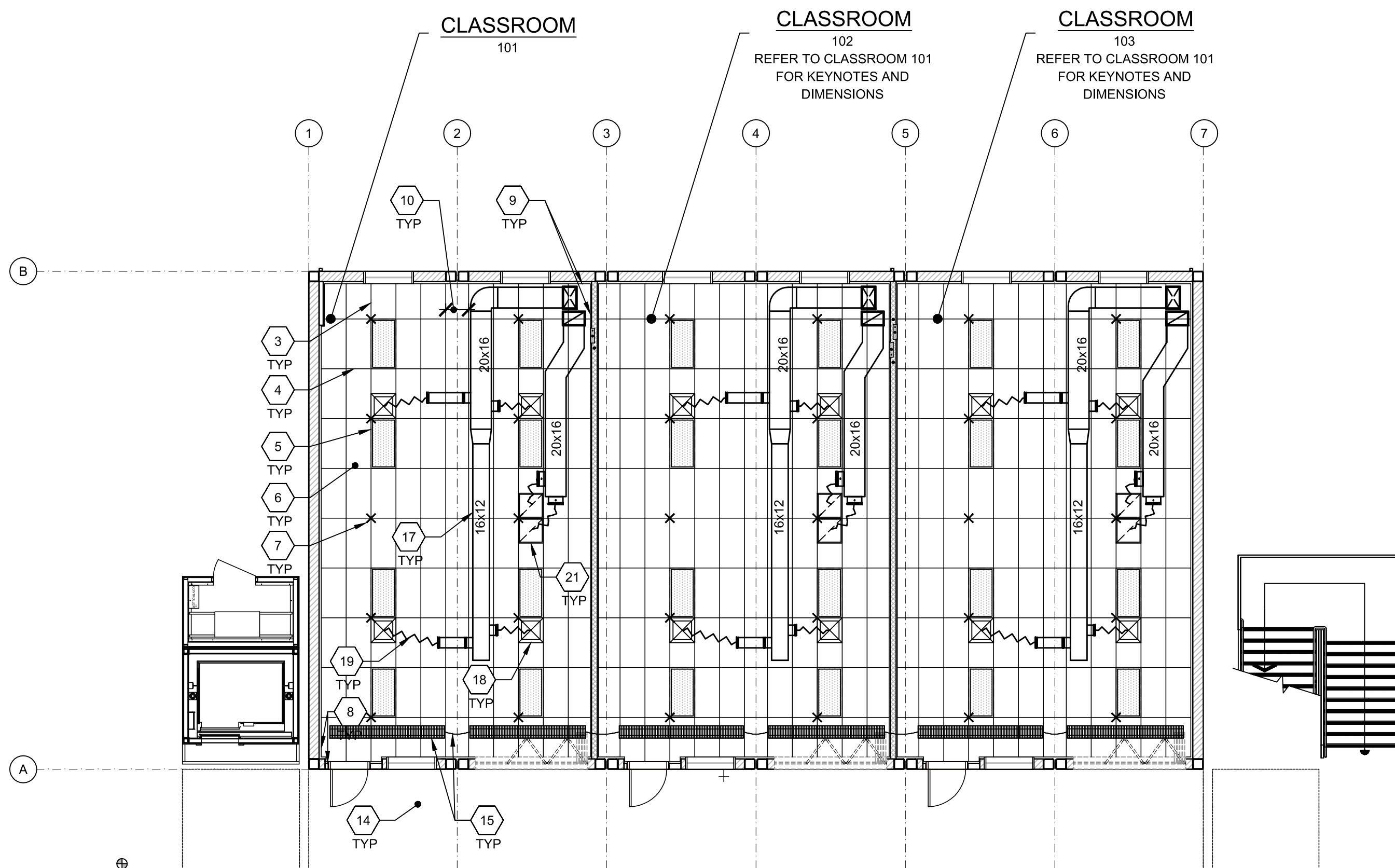
**REVISIONS**


**DRAWN BY:** AH  
**SCALE:** AS NOTED  
**DATE:** 07/05/21  
**PROJECT NO.:** 1614-20

**SHEET TITLE:**  
ELEVATOR SLOPE ROOF FRAMING DETAILS  
(FOR 44' MEM ELEVATOR TOWER PER PC 03-118291 ONLY)

**SHEET NUMBER:**  
**S13.0**

BID SET 10/01/2021



- 1 NOT USED
- 2 THERMOSTAT (BY OTHERS)
- 3 MAIN RUNNER TYP.
- 4 CROSS RUNNER TYP.
- 5 INTERIOR LIGHT FIXTURE, REFER TO SHEET SHEET E1.0 FOR SPECS
- 6 CEILING HEIGHT @ 9'-0"
- 7 SPLAY WIRE BRACING ASSEMBLY, SEE 3/M1.4 FOR DETAILS
- 8 FIXED CEILING END
- 9 FREE CEILING END
- 10 CENTER SECTION THAT CROSSES MODULE LINE TO BE FIELD INSTALLED
- 11 NOT USED
- 12 MINI - SPLIT HVAC AIR HANDLER
- 13 GYPSUM BOARD CEILING PER DETAIL 8/ M1.6
- 14 STUCCO AT SOFFIT
- 15 CABLE TRAY AND CONDUIT- SEE ELECTRICAL PLANS
- 16 NOT USED
- 17 CONCEALED SUPPLY RIGID AIR DUCT ABOVE T-BAR CEILING - SEE 1/M1.4
- 18 TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE - SEE 1/M1.4 & 7/M1.5
- 19 FLEX DUCT - 5'-0" MAX - SEE PLAN FOR SIZES
- 20 NOT USED
- 21 RETURN AIR REGISTER - SEE 7/M1.5
- 22 EXHAUST FANS

**KEY NOTES**

**MEP COMPONENT ANCHORAGE NOTES**

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

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

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

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND 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.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

**PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES**

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

**MEP COMPONENT ANCHORAGE NOTES**

1. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER CMC 608 EXCEPTION #2.
2. LIGHTING FIXTURE MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.

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**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

**MANUFACTURER PROFESSIONAL OF RECORD**  
*Patrick Canino*  
LICENSED ARCHITECT  
No. C12631  
Ren. 3-31-21  
STATE OF CALIFORNIA

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**REVISIONS**


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 12/04/20  
PROJECT NO: 1614-20

SHEET TITLE:  
**HVAC GROUND FLOOR REFLECTED CEILING PLAN**

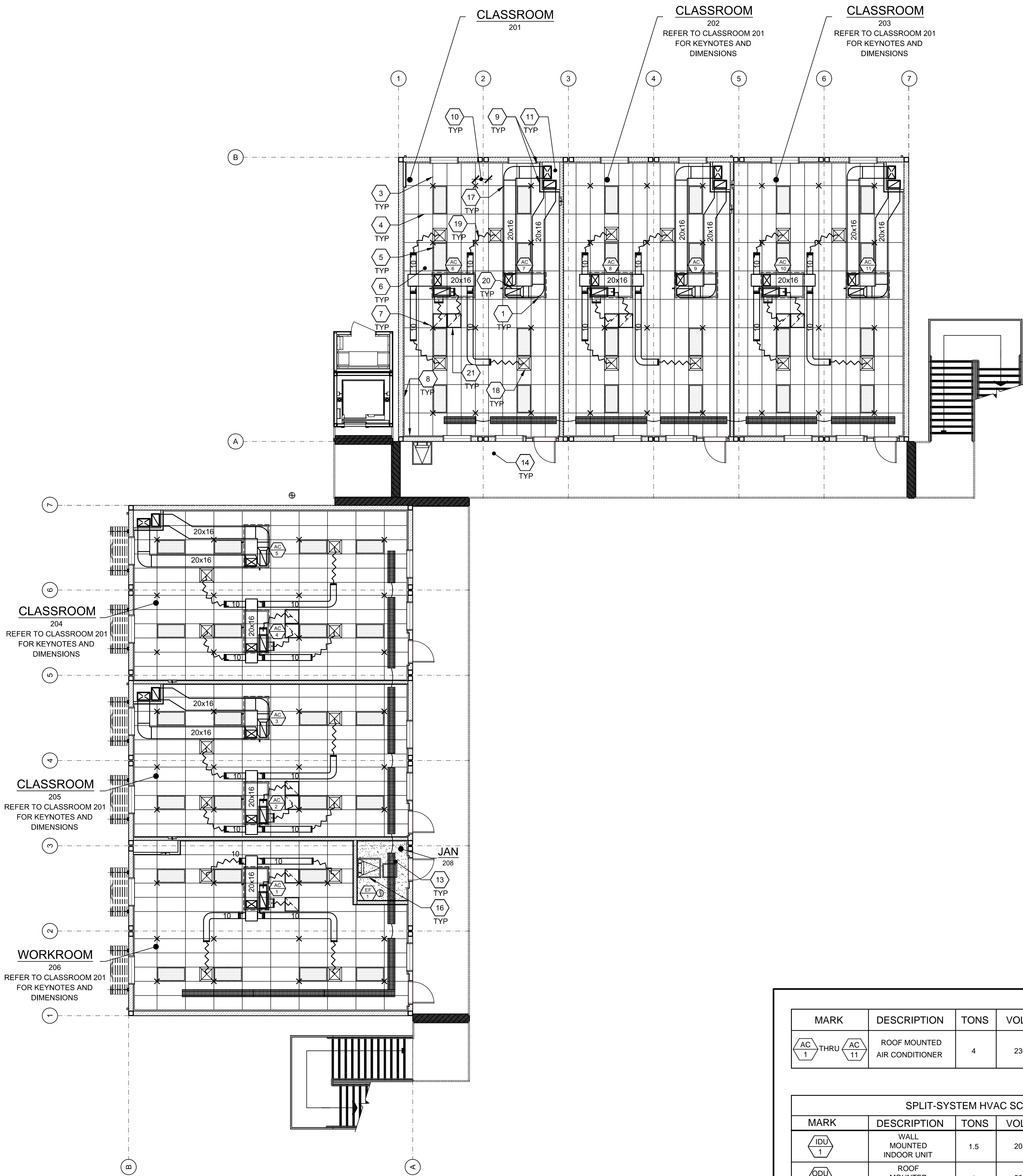
SHEET NUMBER:  
**M1.0**

MARK	DESCRIPTION	CFM	WATTS	S.P.	VOLT/PH	
EF 1	EXHAUST FAN	110	47.3	.10'	120-1Ø	NUTONE AN110 CEILING MOUNTED 180W INPUT 10 LBS (OR EQUAL)
EF 2	EXHAUST FAN	210	127	.125'	120-1Ø	BROAN L200 CEILING MOUNTED 180W INPUT 23 LBS (OR EQUAL)

- NOTES:**
1. VENT EXHAUST FAN THROUGH ROOF.
  2. FANS MUST WEIGH LESS THAN 75 LBS.

**EXHAUST FAN SCHEDULE**

**GENERAL NOTES**



- 1 ROOF MOUNT HVAC UNIT
- 2 THERMOSTAT (BY OTHERS)
- 3 MAIN RUNNER TYP.
- 4 CROSS RUNNER TYP.
- 5 INTERIOR LIGHT FIXTURE, REFER TO SHEET SHEET E1.0 FOR SPECS
- 6 CEILING HEIGHT @ 9'-0"
- 7 SPLAY WIRE BRACING ASSEMBLY, SEE 3/M1.4 FOR DETAILS
- 8 FIXED CEILING END
- 9 FREE CEILING END
- 10 CENTER SECTION THAT CROSSES MODULE LINE TO BE FIELD INSTALLED
- 11 UTILITY CHASE WALL ENCLOSURE
- 12 NOT USED
- 13 GYPSUM BOARD CEILING PER DETAIL 8/ M1.6
- 14 STUCCO AT SOFFIT
- 15 CABLE TRAY AND CONDUIT- SEE ELECTRICAL PLANS
- 16 ACCESS HATCH
- 17 CONCEALED SUPPLY RIGID AIR DUCT ABOVE T-BAR CEILING - SEE 1/M1.4
- 18 TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE - SEE 1/M1.4 & 7/M1.5
- 19 FLEX DUCT - 5'-0" MAX - SEE PLAN FOR SIZES
- 20 RETURN AIR AS PART OF UNIT
- 21 RETURN AIR REGISTER - SEE 7/M1.5

**KEY NOTES**

**MEP COMPONENT ANCHORAGE NOTES**

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

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

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

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND 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.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

**PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES**

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

**MEP COMPONENT ANCHORAGE NOTES**

1. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER CMC 608 EXCEPTION #2.
2. LIGHTING FIXTURE MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.

**GENERAL NOTES**

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**SET NAME**

(2) 72'x40' 2 STORY  
CLASSROOM BUILDINGS

**SITE SPECIFIC PROJECT NAME**

GLENDALE USD  
GLENOAKS  
ELEMENTARY SCHOOL

**MANUFACTURER PROFESSIONAL OF RECORD**

Patricia Cantu  
No. C12631  
Ren. 3-31-21  
STATE OF CALIFORNIA

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**REVISIONS**


**DRAWN BY:** AH  
**SCALE:** AS NOTED  
**DATE:** 12/04/20  
**PROJECT NO:** 1614-20  
**SHEET TITLE:**

**HVAC  
UPPER FLOOR  
REFLECTED CEILING PLAN**

**SHEET NUMBER:**

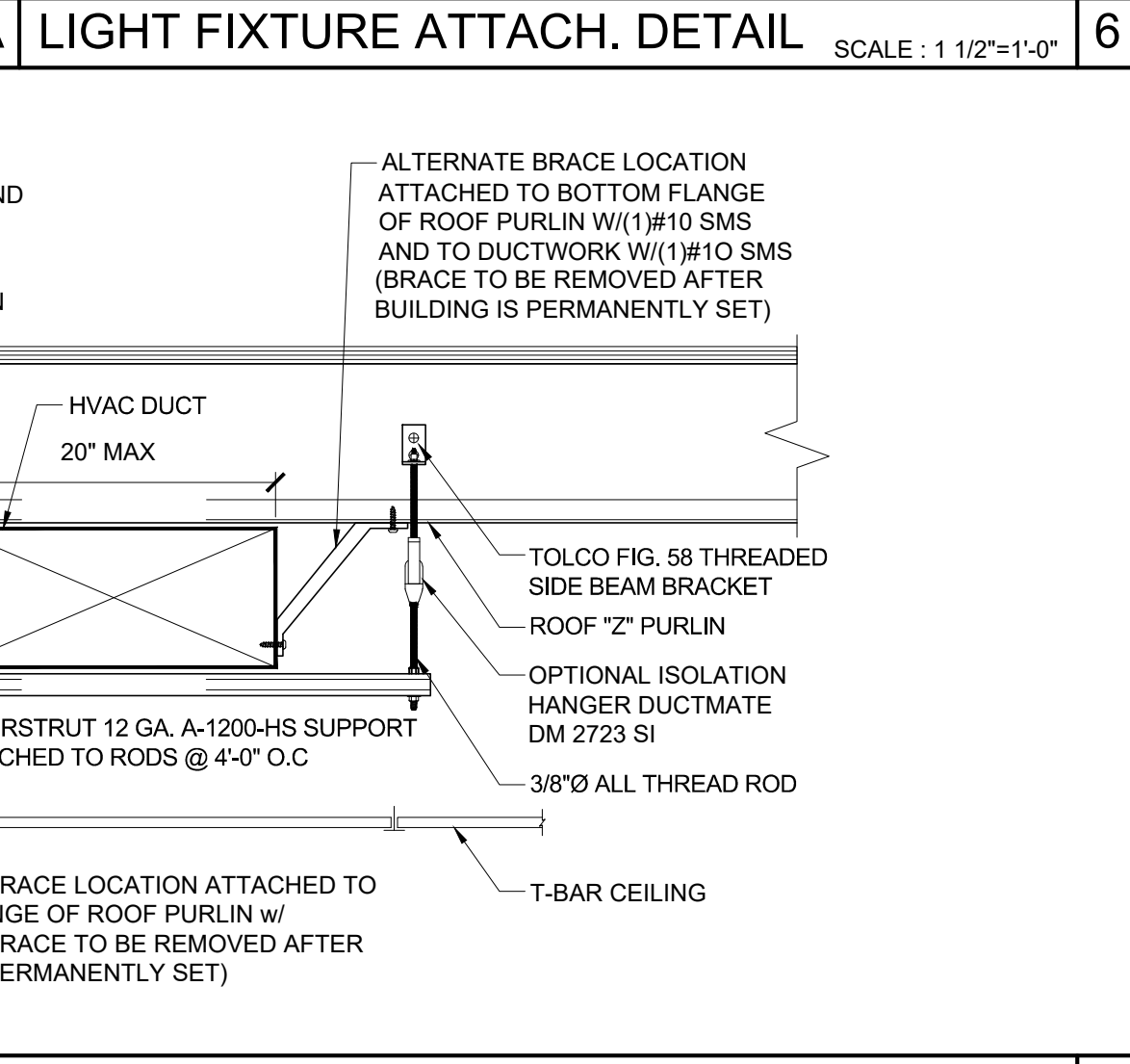
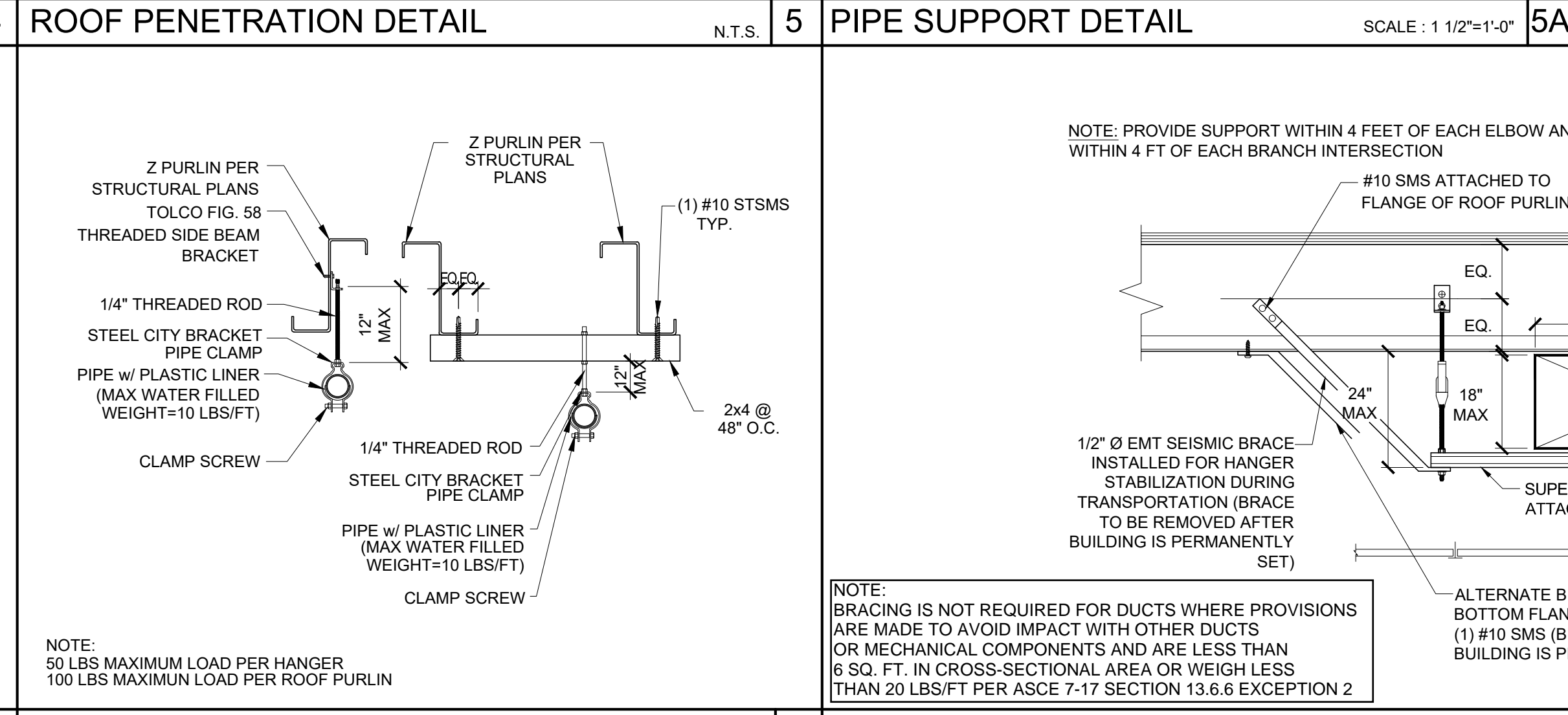
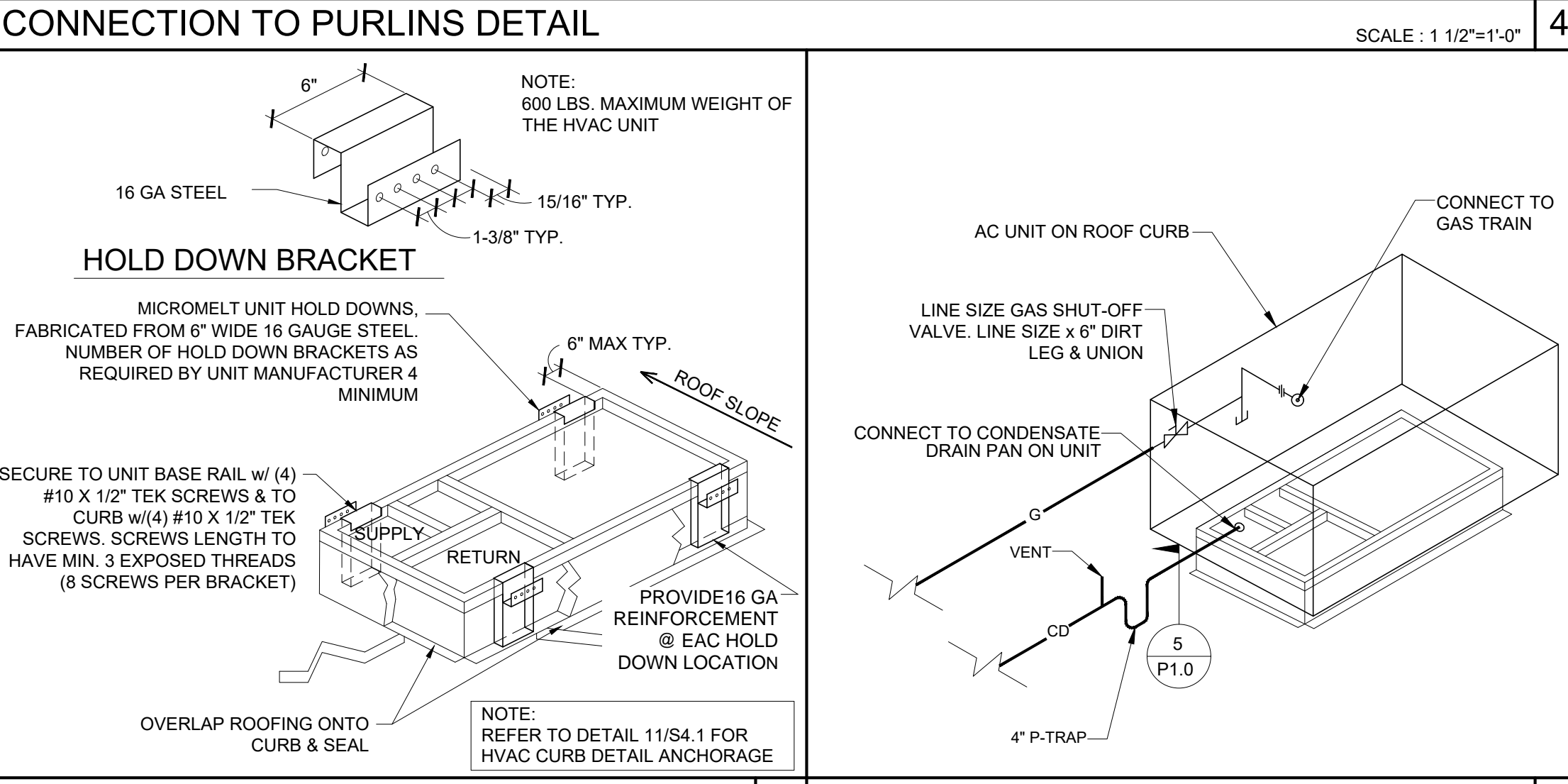
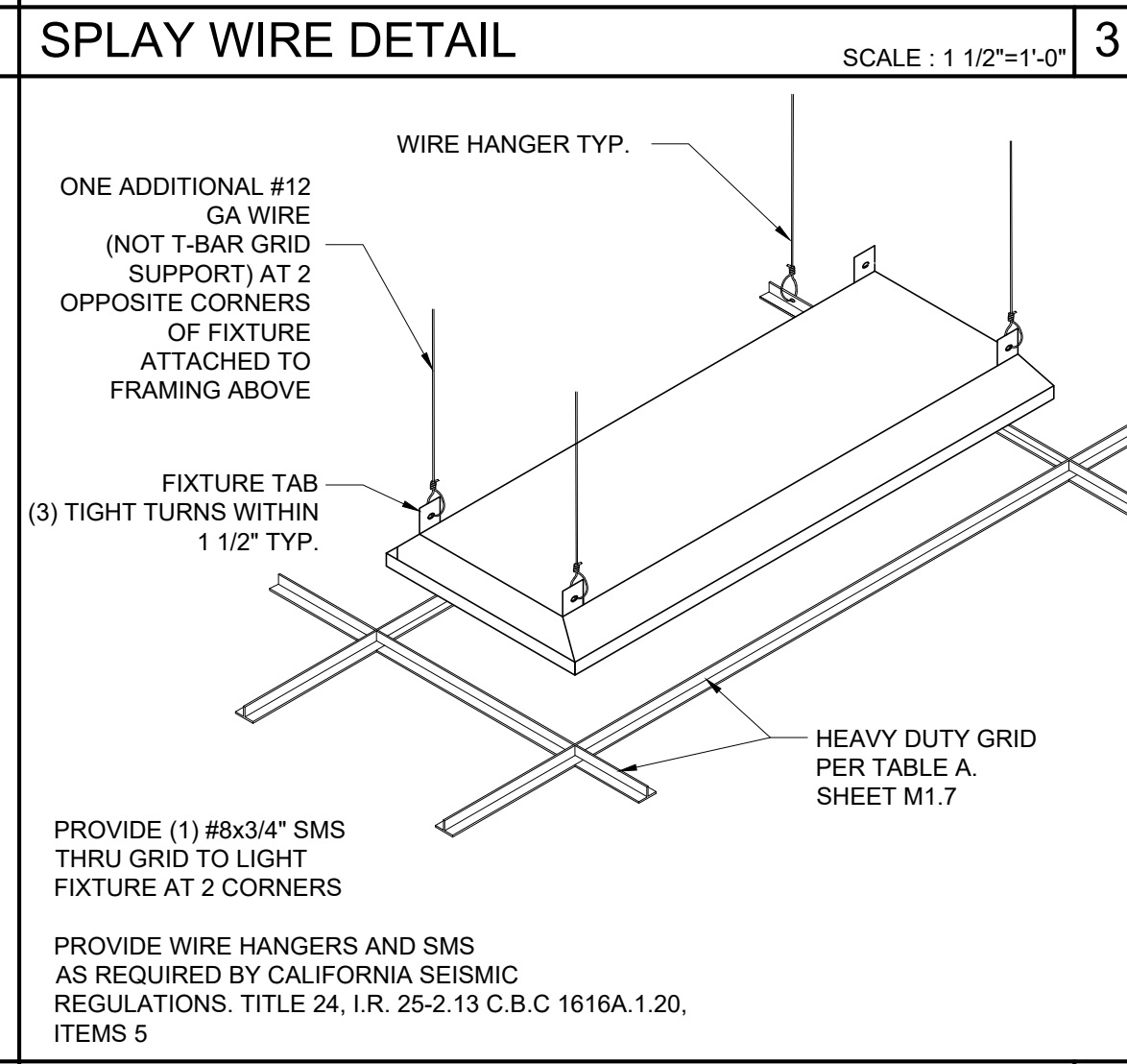
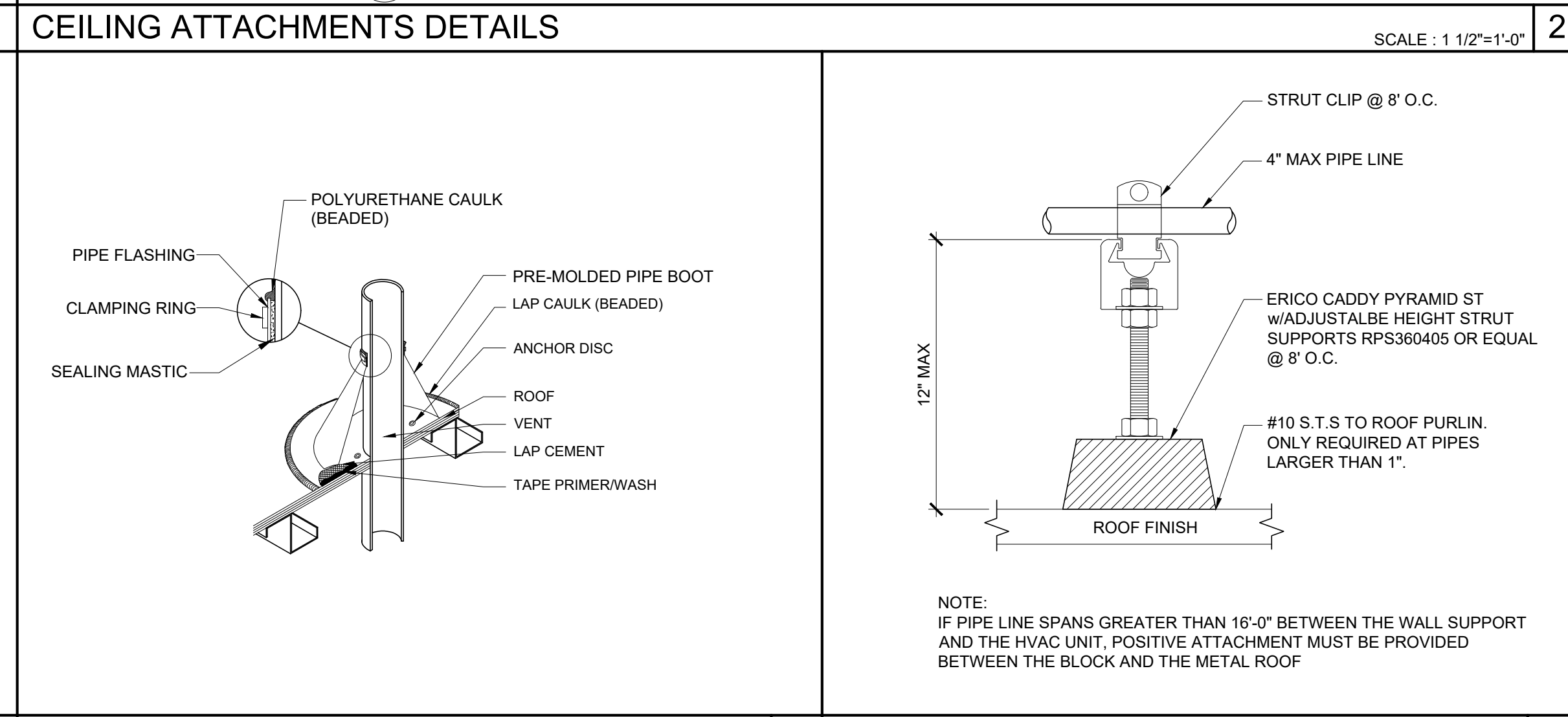
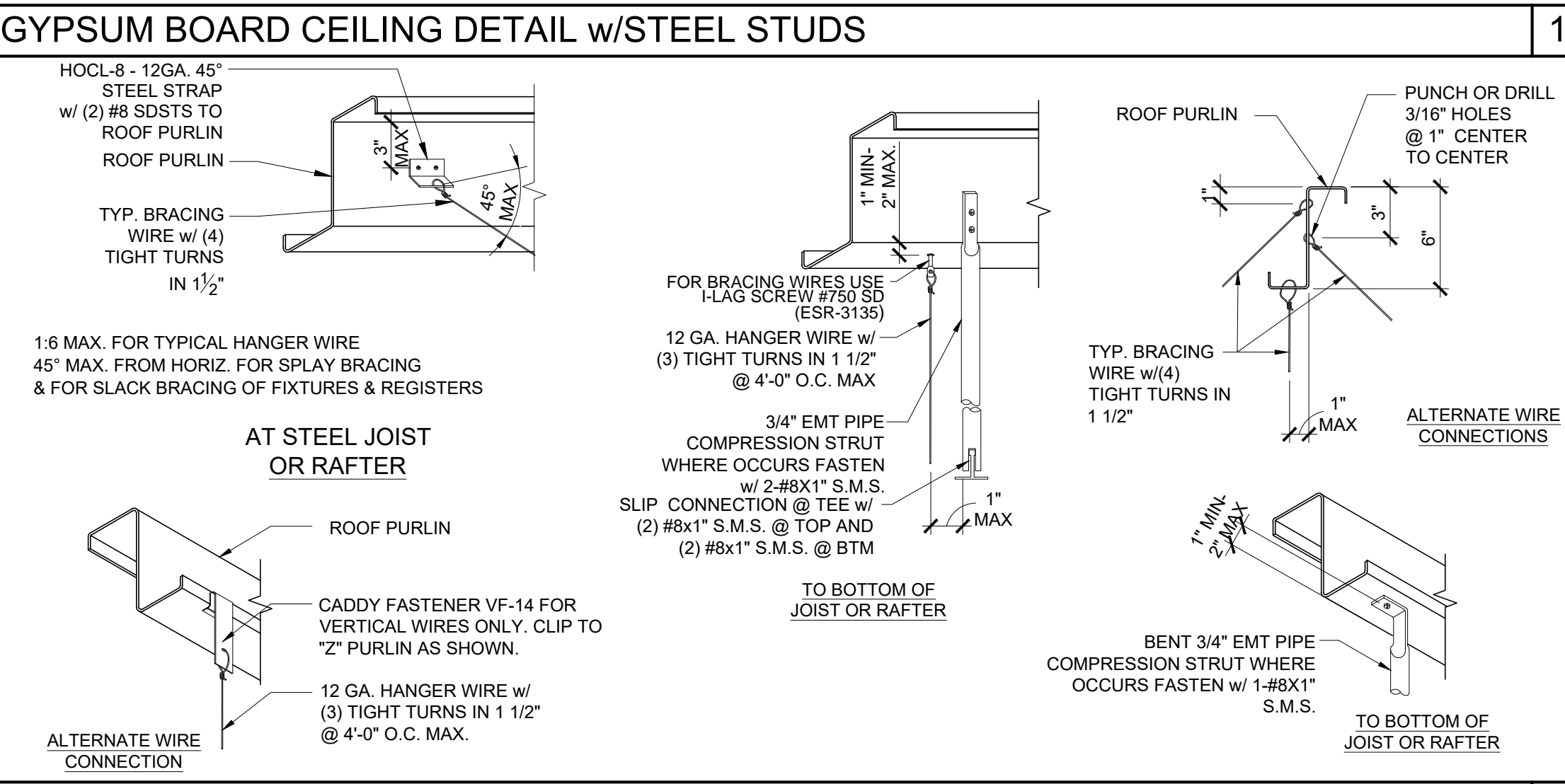
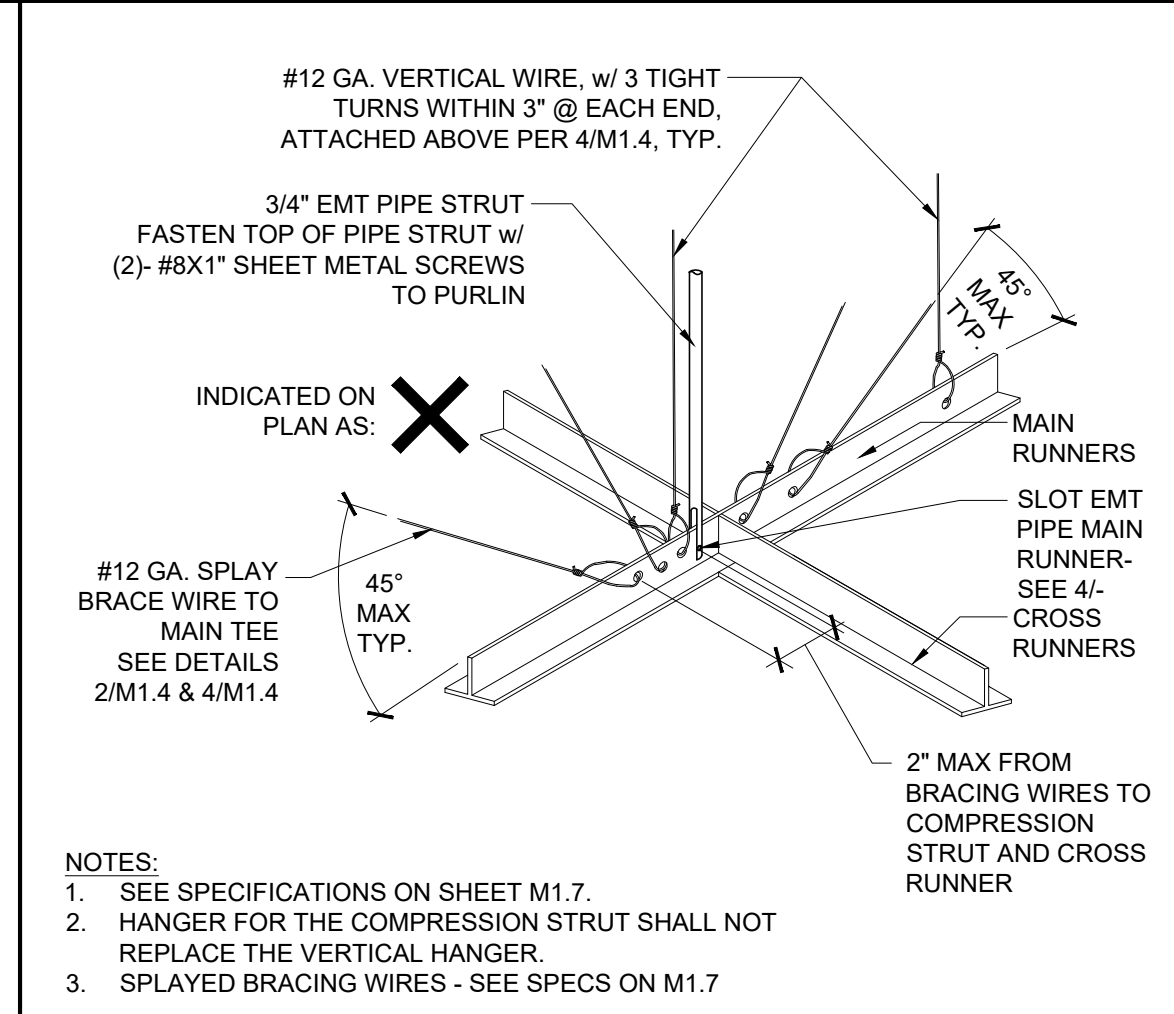
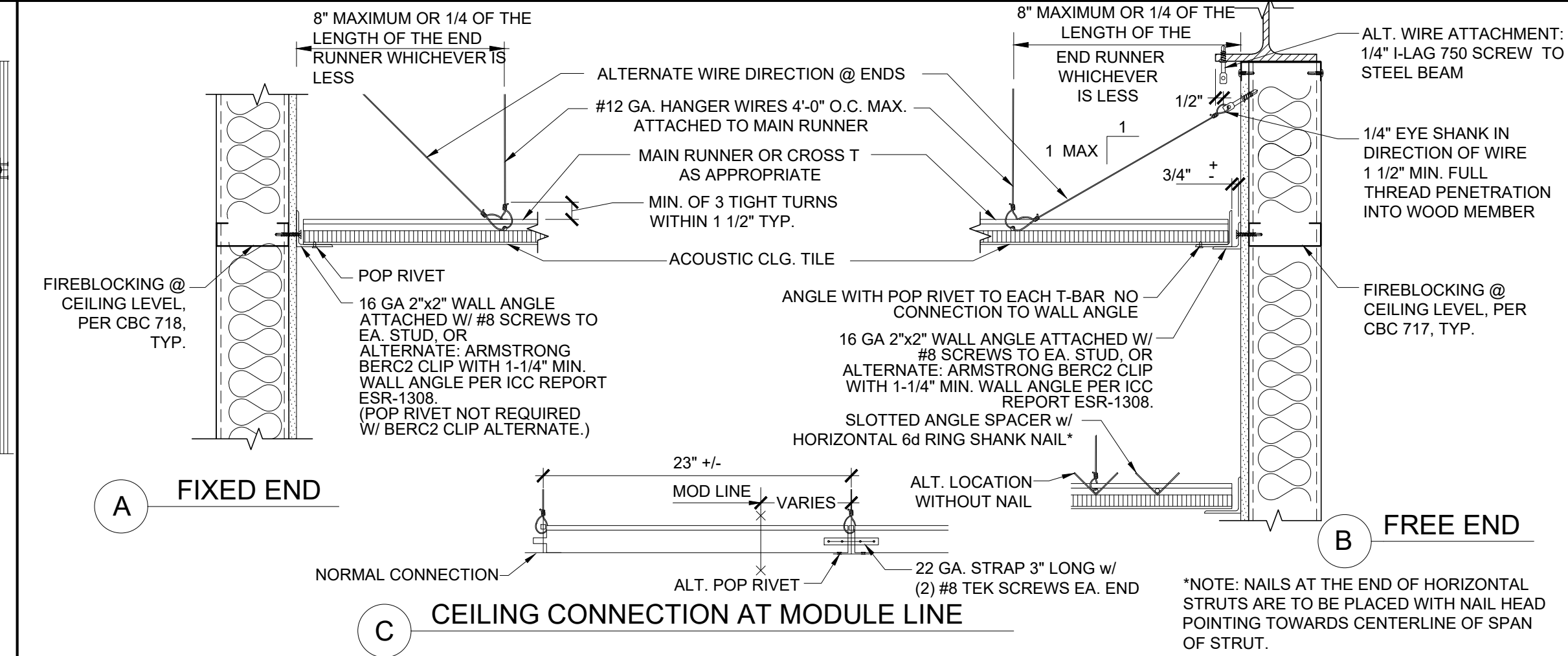
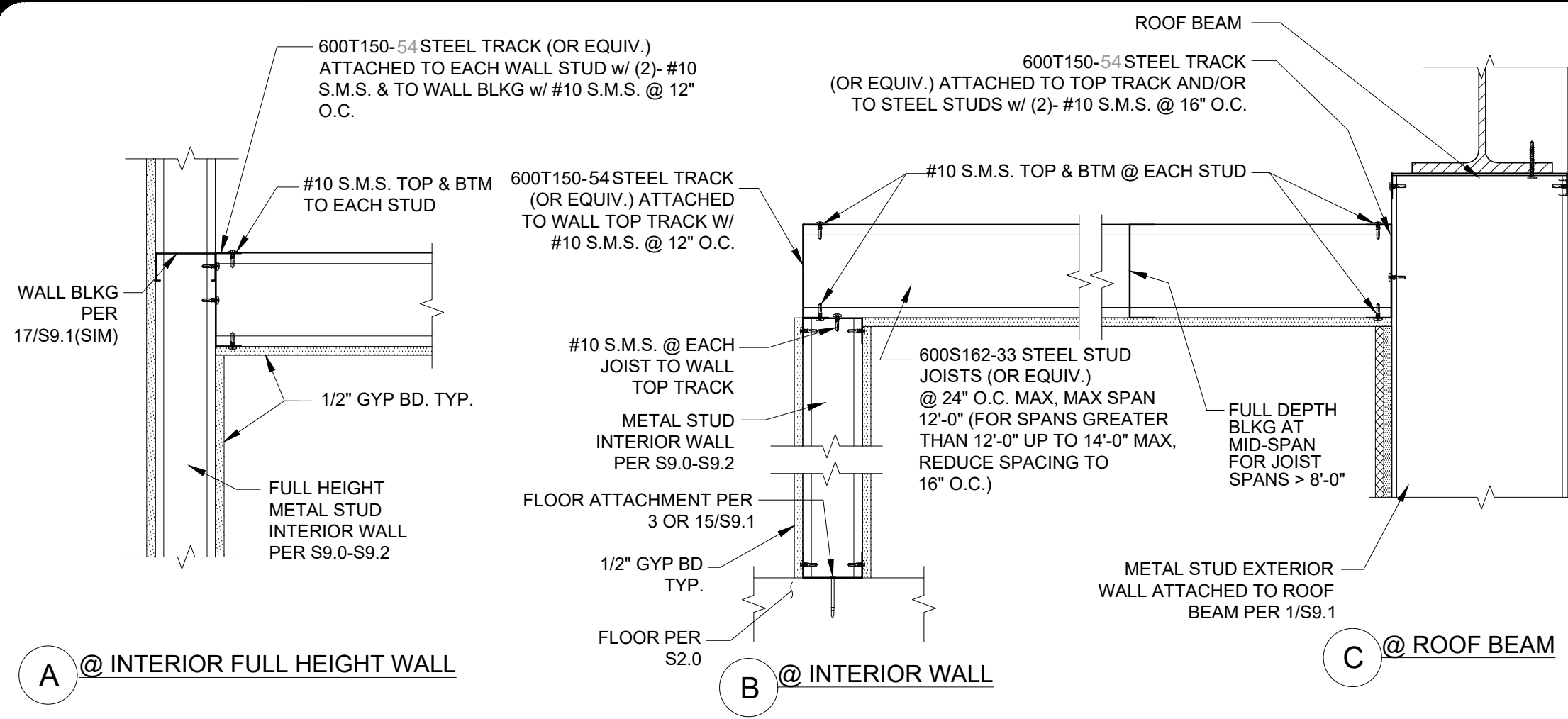
**M1.1**

MARK	DESCRIPTION	TONS	VOLT/PHASE	MODEL	WEIGHT
AC 1 THRU AC 11	ROOF MOUNTED AIR CONDITIONER	4	230/208 - 1Ø	CARRIER 48GCLM05	559.0 LBS.

SPLIT-SYSTEM HVAC SCHEDULE					
MARK	DESCRIPTION	TONS	VOLT/PHASE	MODEL	WEIGHT
IDU 1	WALL MOUNTED INDOOR UNIT	1.5	208/230 - 1Ø	CARRIER 40MAHBQ12XA3	25.0 LBS
ODU 1	ROOF MOUNTED OUTDOOR UNIT	1	208/230 - 1Ø	CARRIER 38MARBQ12AA3	80.0 LBS

**HVAC SCHEDULE**

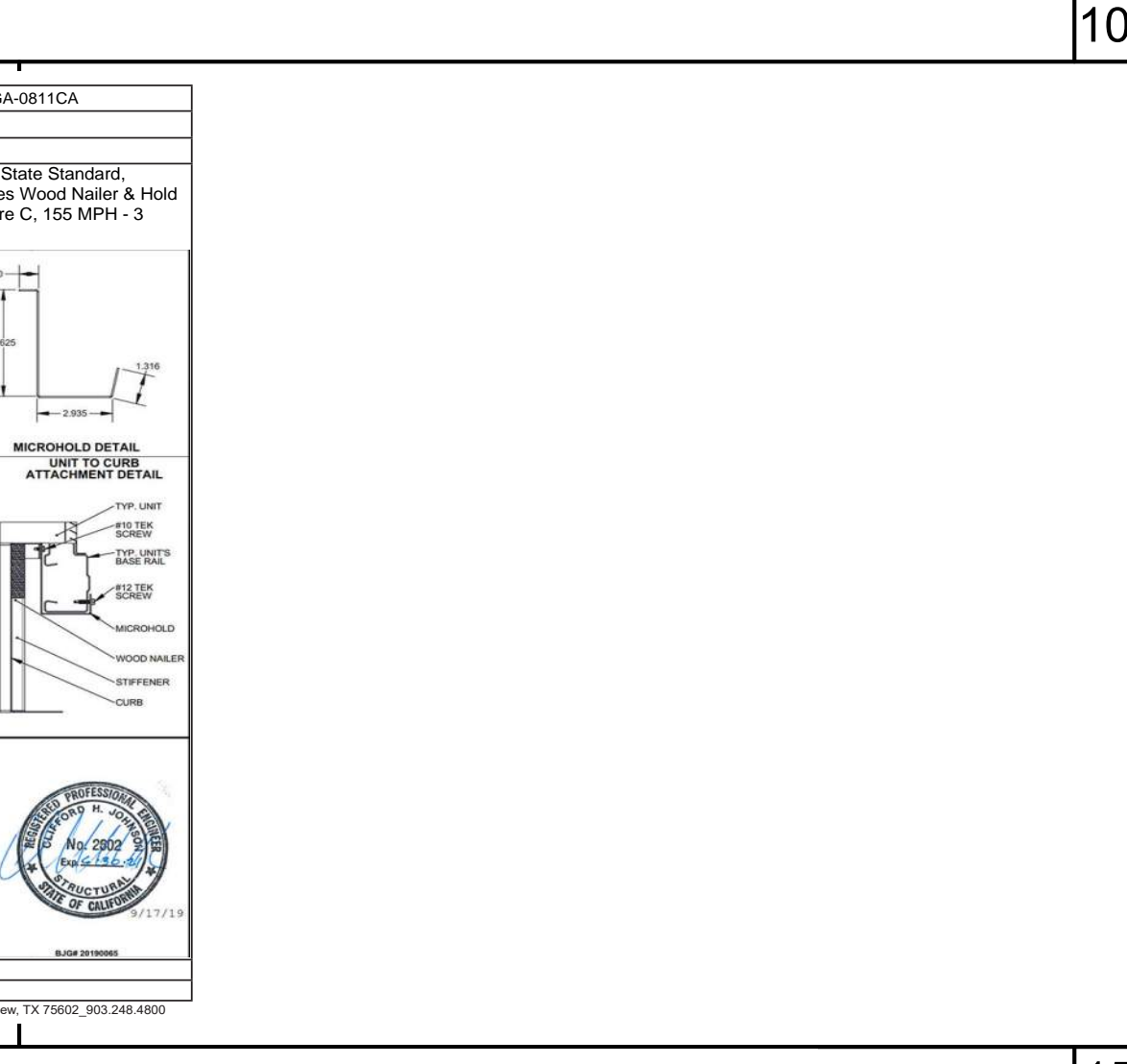
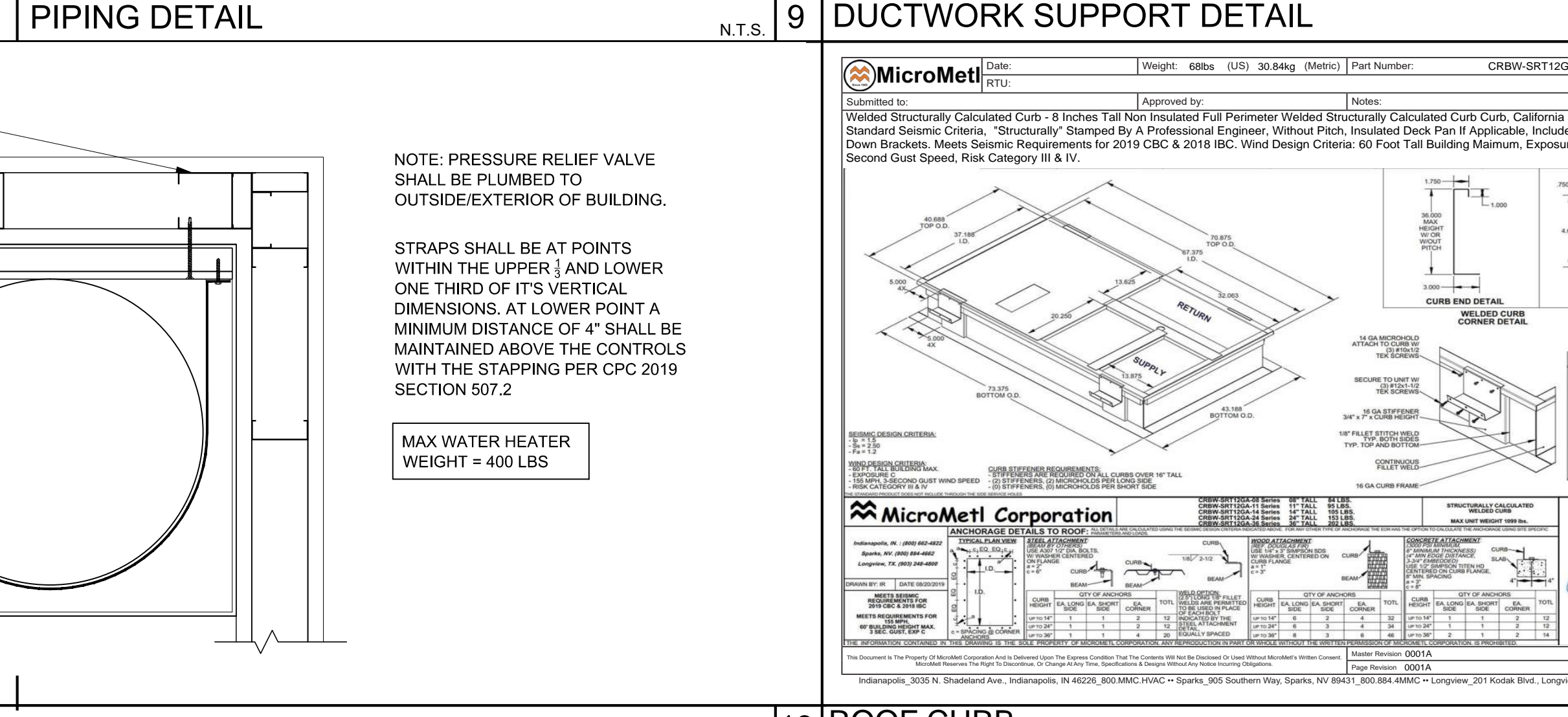
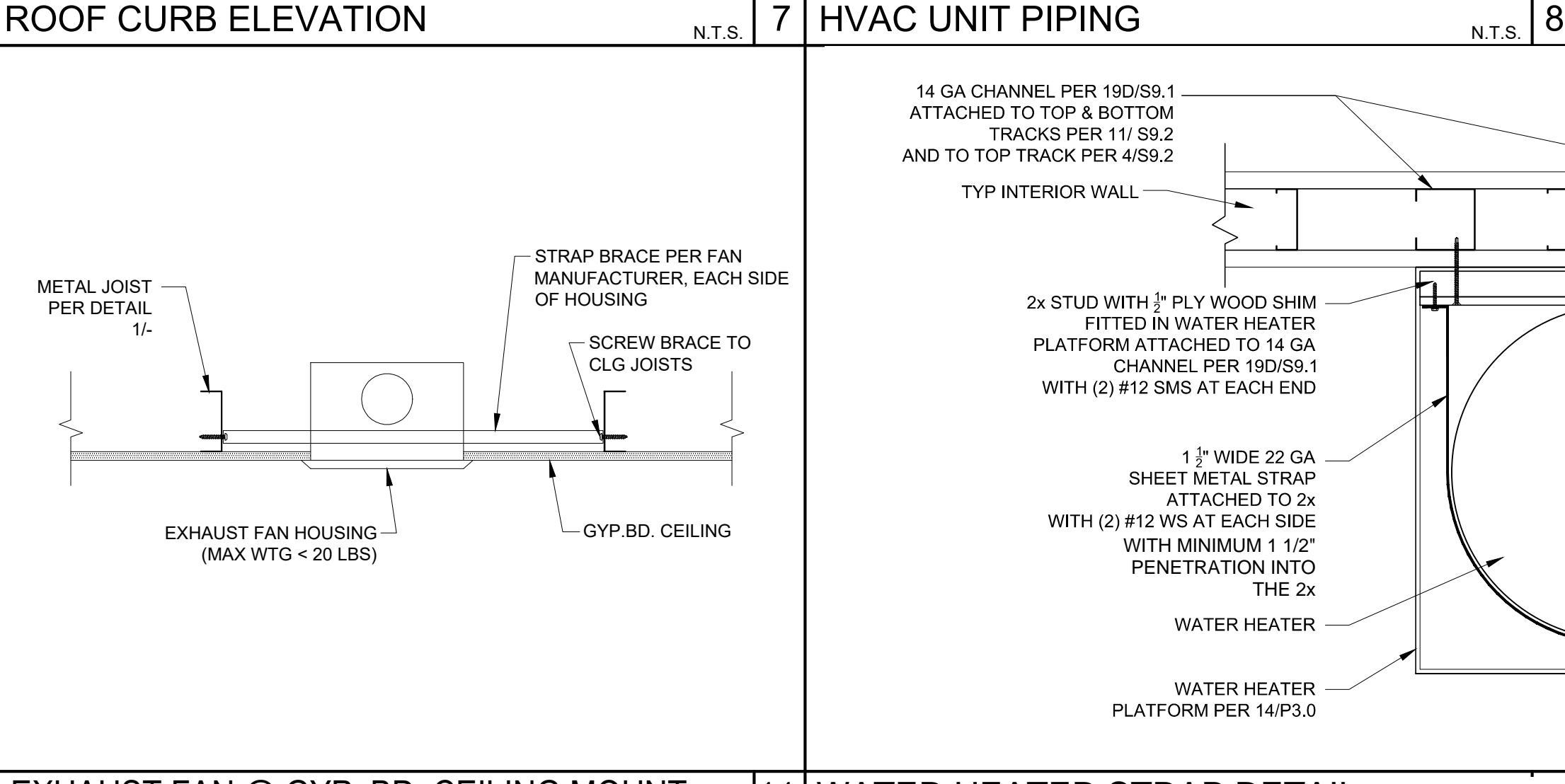
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**SET NAME**  
 (2) 72'x40' 2 STORY CLASSROOM BUILDINGS



**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD ON PC

**LICENCED ARCHITECT**  
 PATRICK C. WILSON  
 No. C12631  
 Ren. 3-31-23  
 STATE OF CALIFORNIA

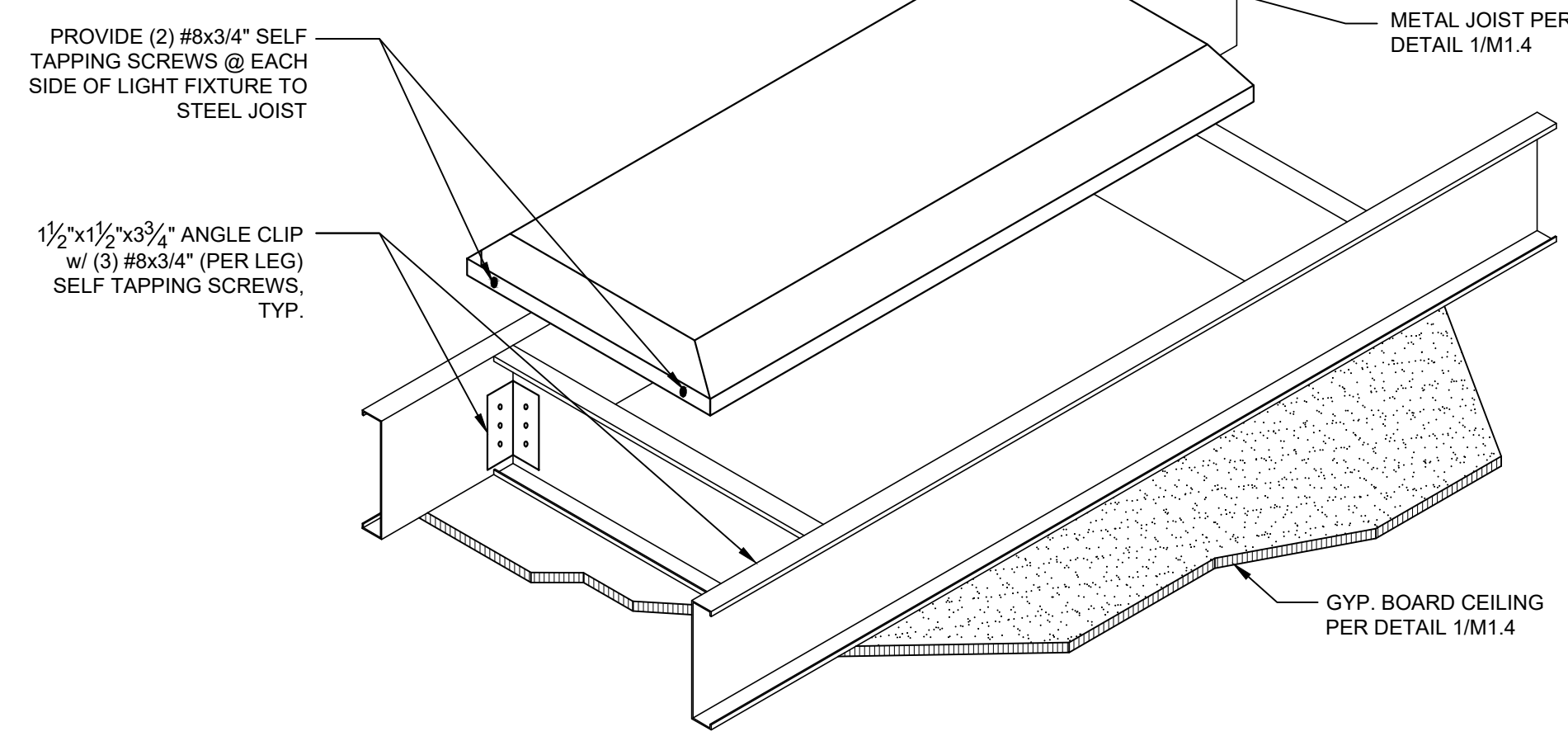
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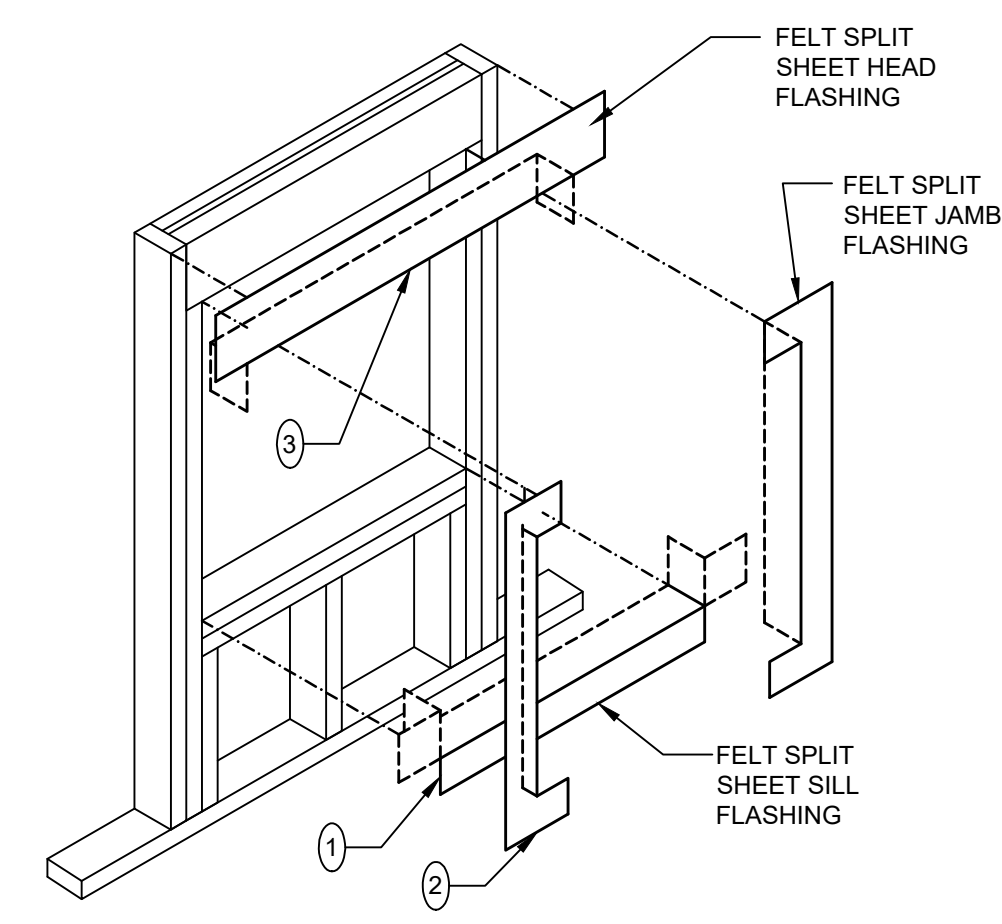
**REVISIONS**

DRAWN BY: AH  
 SCALE: AS NOTED  
 DATE: 07/05/21  
 PROJECT NO: 1614-20  
 SHEET TITLE: HVAC BUILDING SECTION AND DETAILS  
 SHEET NUMBER: M1.4

BID SET 10/01/2021

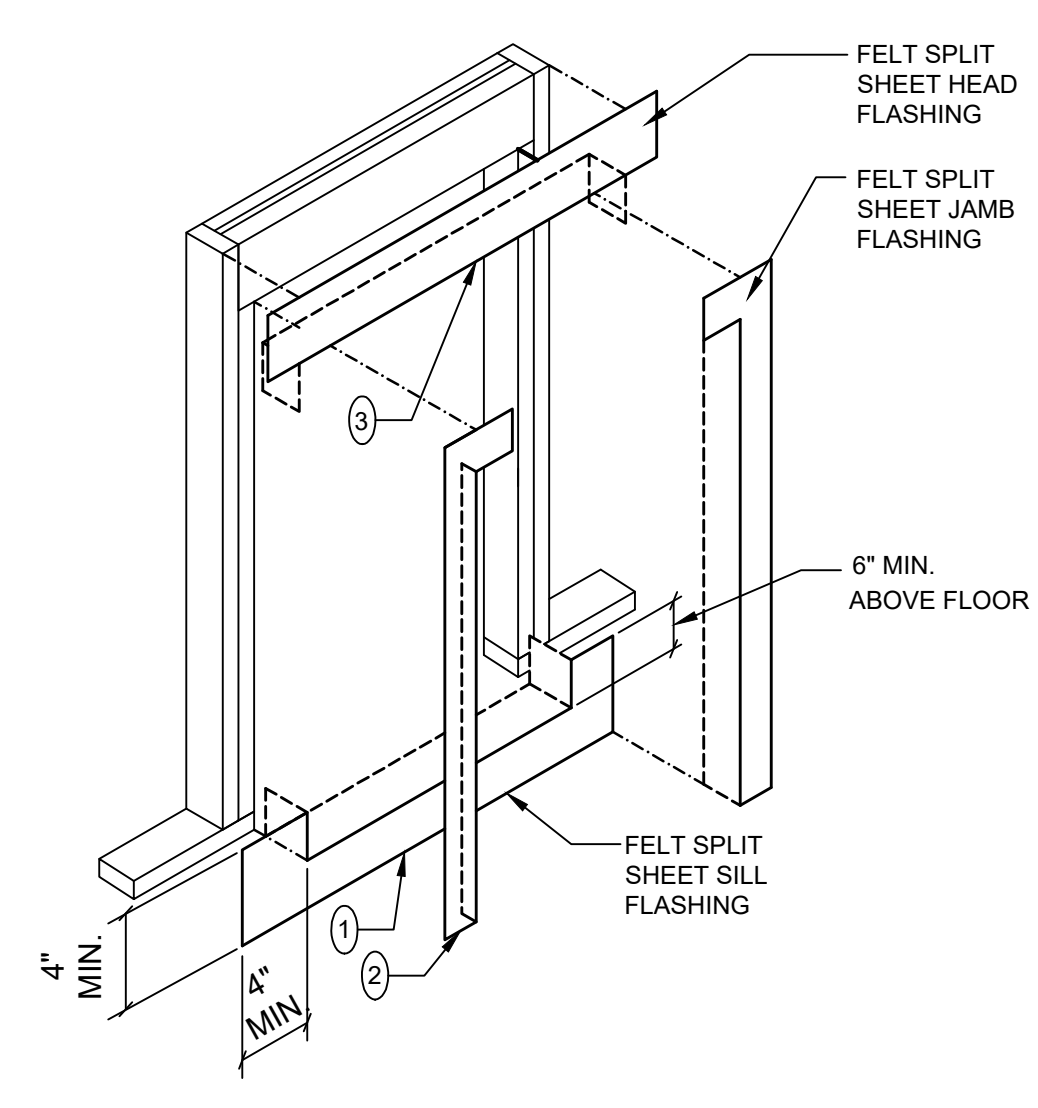


1 LIGHT FIXTURE ATTACHMENT DETAIL w/ METAL STUDS  
GYPSUM BOARD CEILING OPTION SCALE: N.T.S.

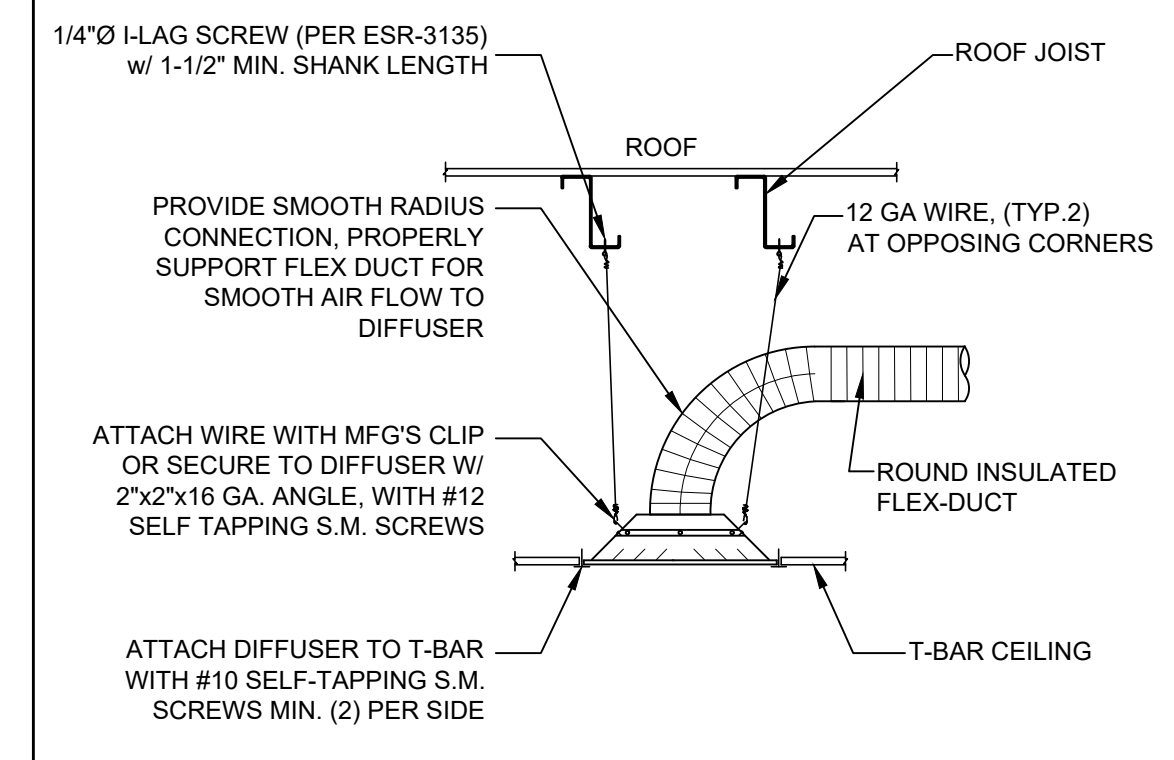


2 WINDOW CONDITION

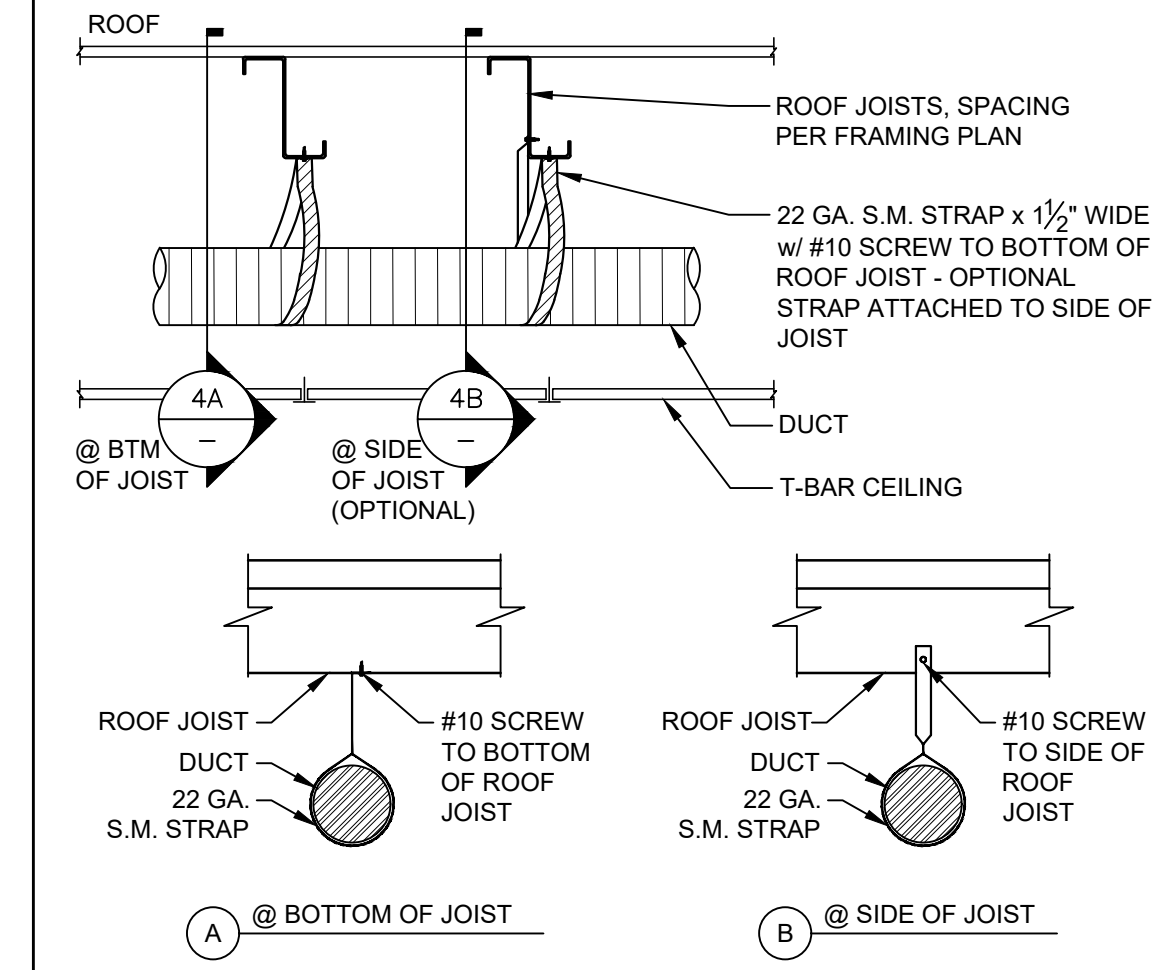
(#) = SEQUENCE OF ORDER



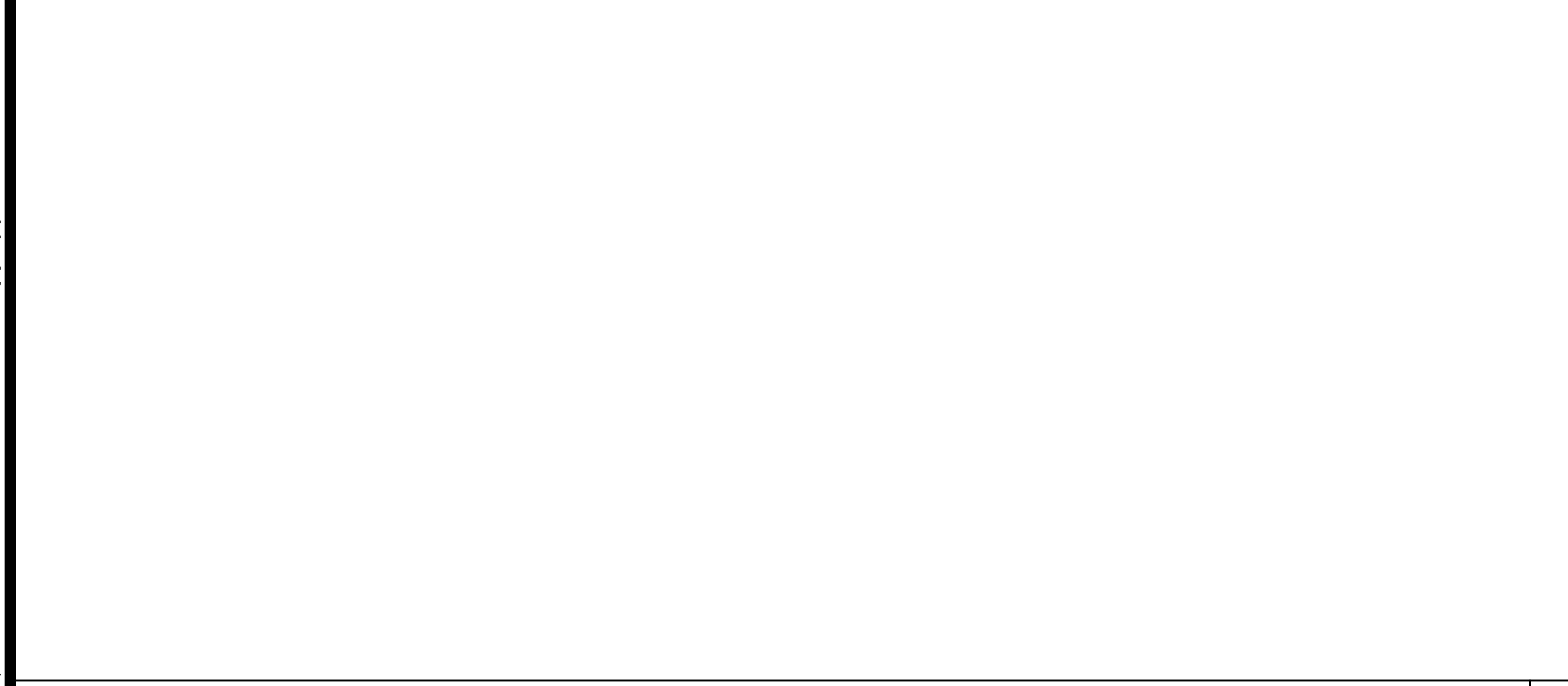
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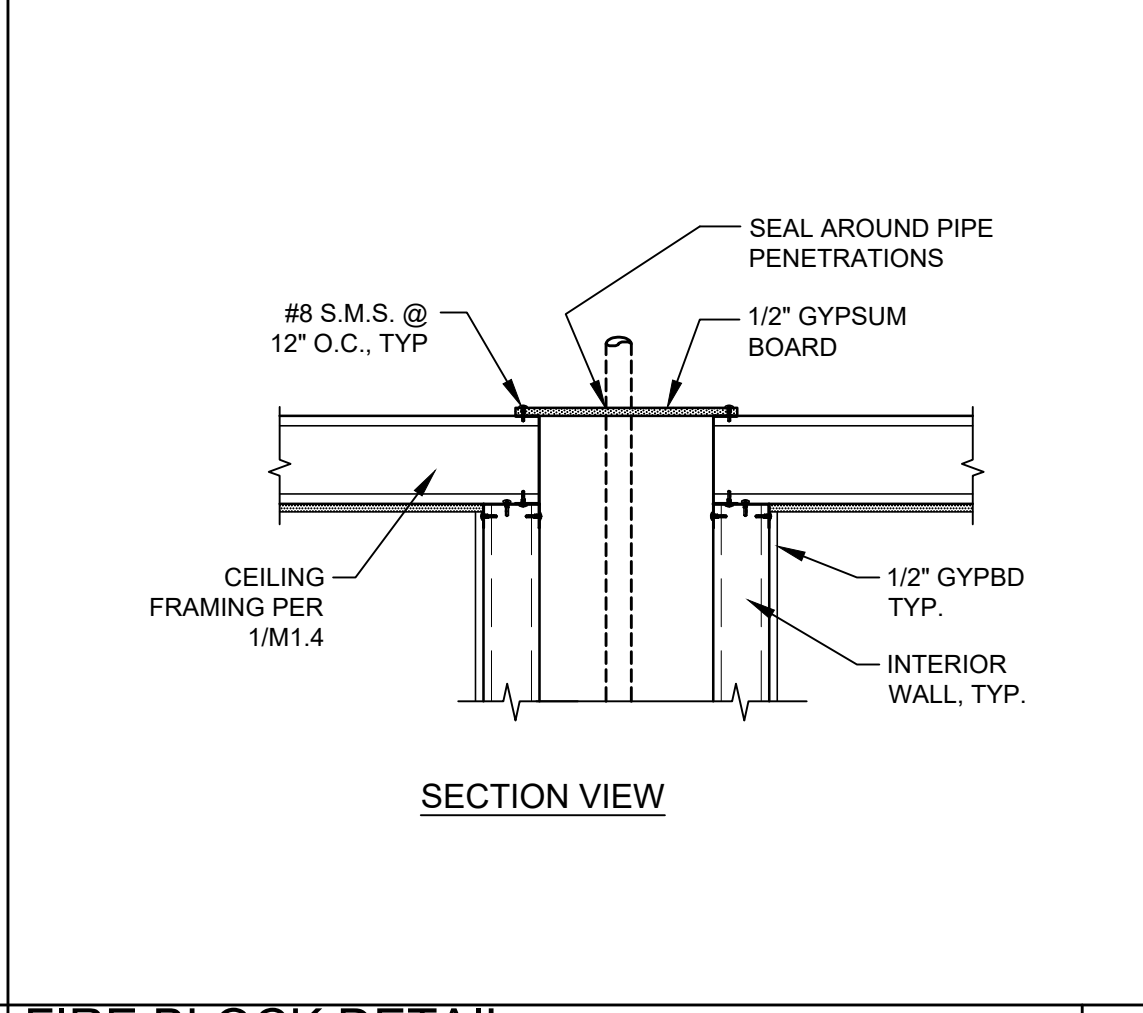
4 SUPPLY - RETURN DIFFUSER MOUNTING DETAIL SCALE: N.T.S.



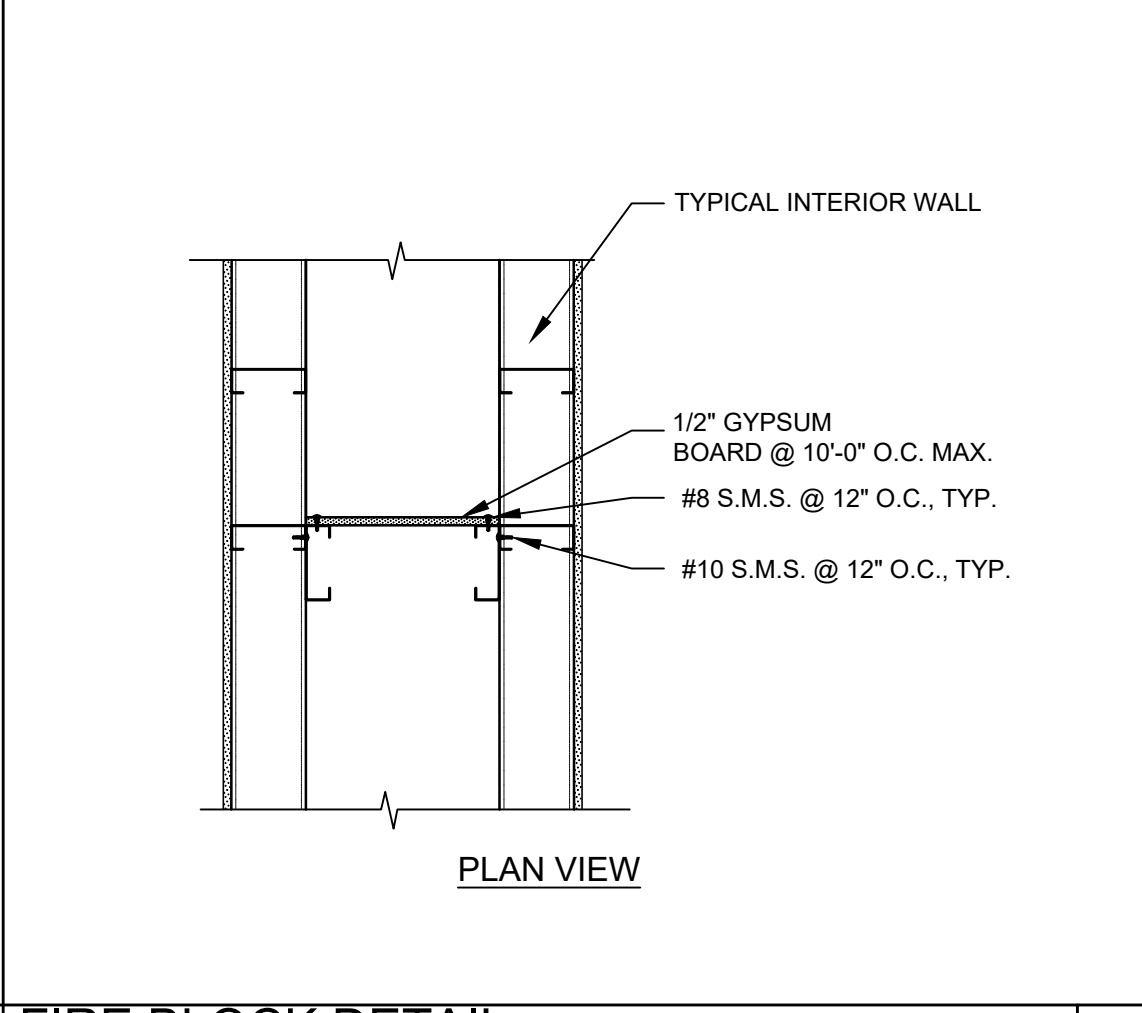
5 FLEX DUCTING SUPPORT DETAIL SCALE: N.T.S.



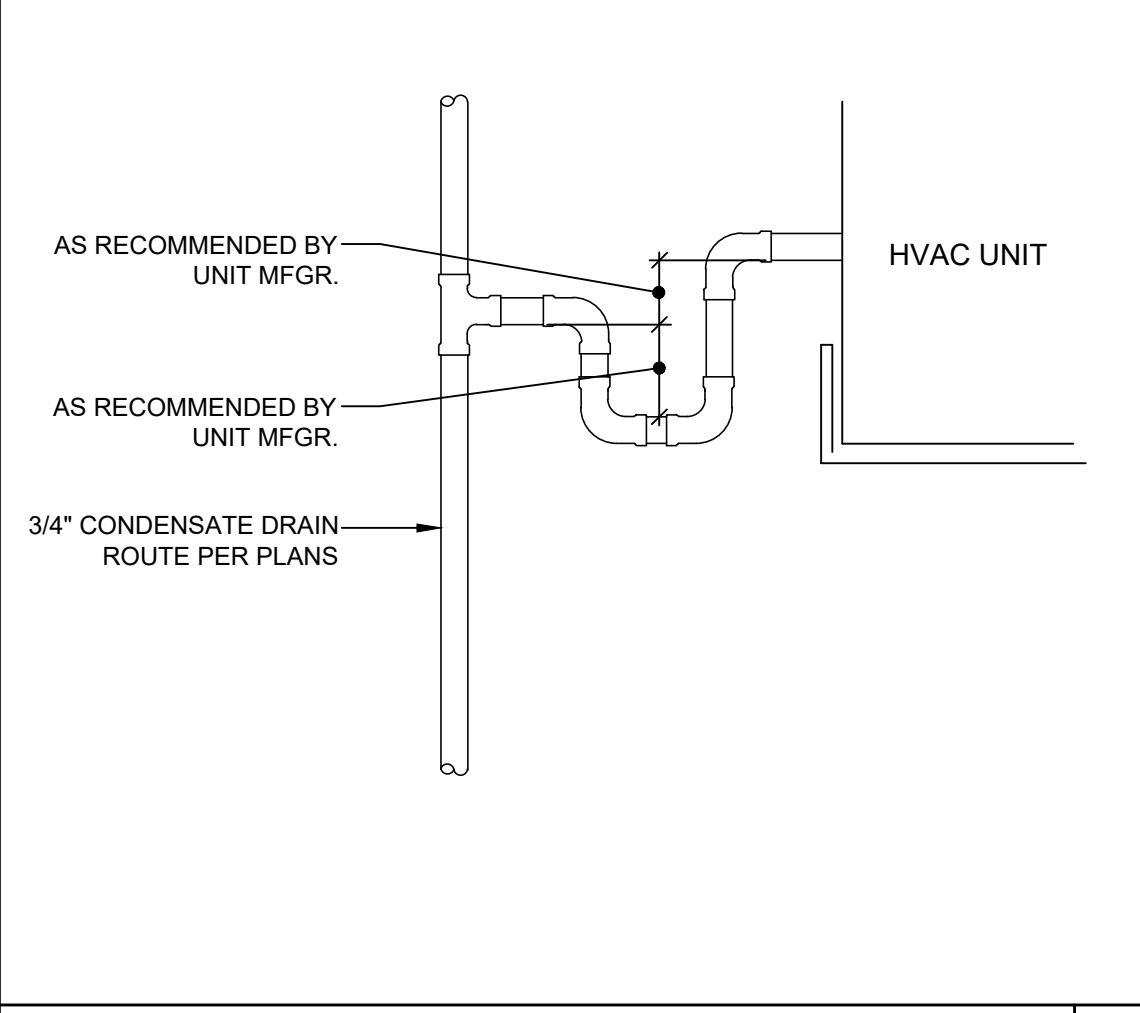
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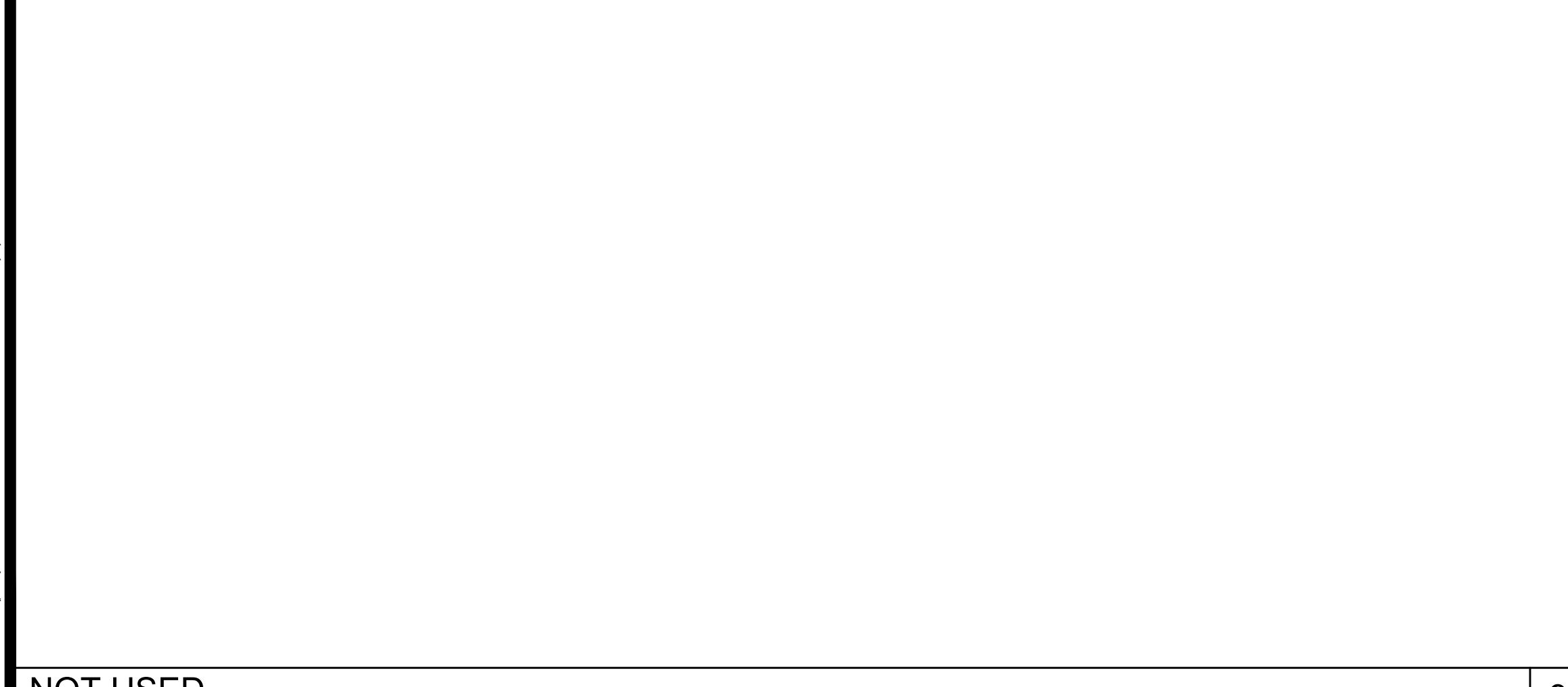
7 FIRE BLOCK DETAIL @ PLUMBING CHASE SCALE: N.T.S.



8 FIRE BLOCK DETAIL @ PLUMBING CHASE SCALE: N.T.S.



9 CONDENSATE DETAIL SCALE: N.T.S.



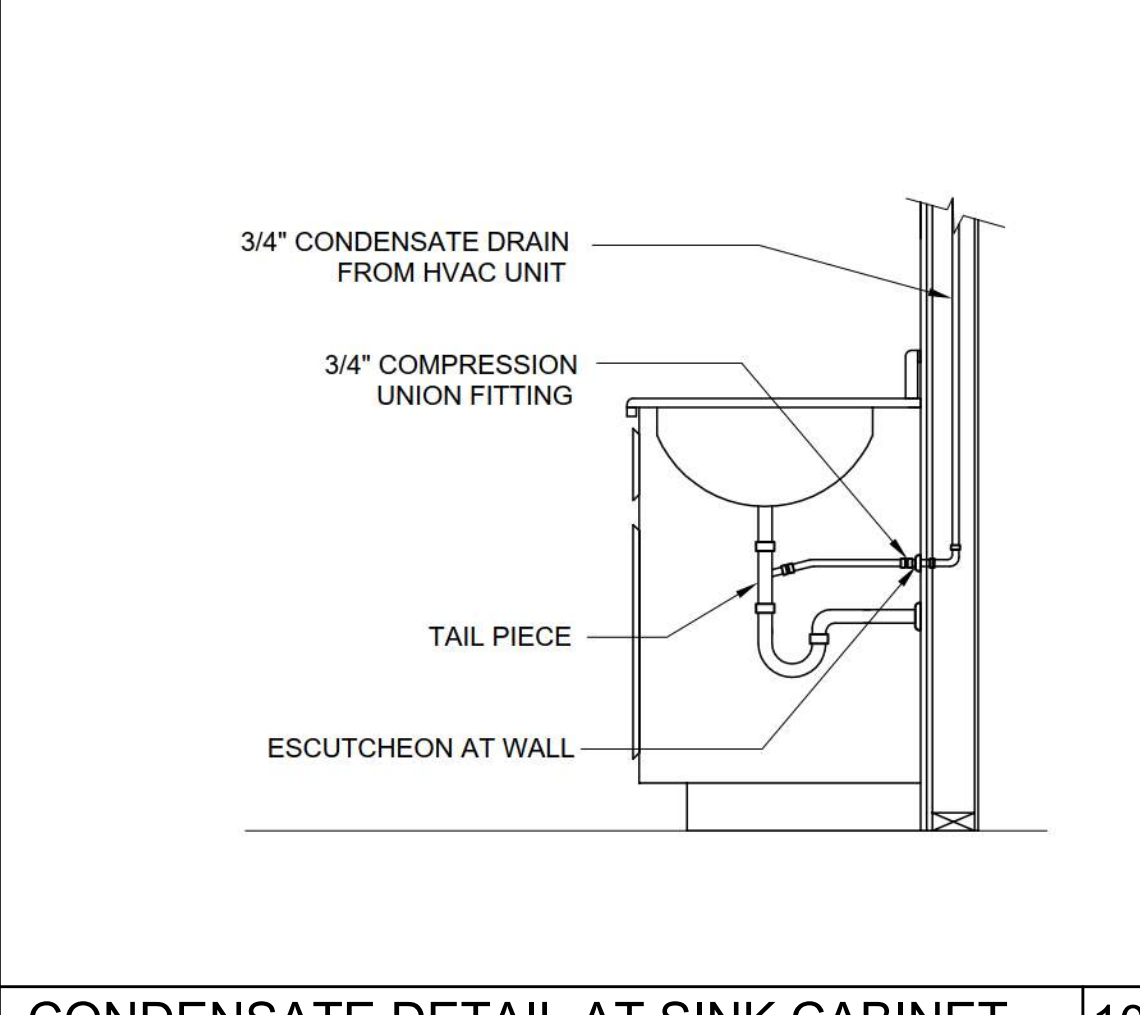
10 NOT USED



11 NOT USED



12 NOT USED



13 CONDENSATE DETAIL AT SINK CABINET

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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD ON PC

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REVISIONS


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 07/05/21  
PROJECT NO: 1614-20

SHEET TITLE:  
**CEILING & MECHANICAL DETAILS**

SHEET NUMBER:  
**M1.5**

BID SET 10/01/2021

**METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING**

1. CEILING GRID SYSTEMS IN SEISMIC ZONES D, E, F, MUST BE RATED "HEAVY DUTY", AS DEFINED BY ASTM C635. PROVIDE GRID COMPONENTS AS SPECIFIED IN TABLE A BELOW, OR APPROVED EQUAL. GRID METAL FRAMING PIECES SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION AND TENSION, PER ASTM E580.
2. SUSPENSION WIRE SHALL BE CLASS 1 ZINC-COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE WITH SOFT TEMPER AND A MINIMUM TENSILE STRENGTH OF 70 KSI.
3. WHEN HANGER AND BRACING WIRES ARE ATTACHED TO CONCRETE ABOVE, TESTS PER D.S.A. IR 25-2.13 SECTION 6.8 MUST BE PERFORMED. POWER ACTUATED FASTENERS IN CONCRETE ARE NOT ALLOWED FOR BRACING WIRE.
4. 12 GA. (MINIMUM) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0 GRID SPACING, ATTACH TO MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY D.S.A.
5. PROVIDE 12 GA. HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, AT THE PERIMETER OF THE CEILING AREA.
6. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1:6 OUT OF PLUMB ARE TO HAVE COUNTER-BRACED WIRES.
7. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
8. PERIMETER SUPPORT ANGLES SHALL BE AT LEAST 2 INCHES WIDE, OR USE PROPRIETARY ANGLES & SEISMIC CLIPS THAT HAVE A VALID EVALUATION REPORT.
9. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 8" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
10. CEILING AREAS EXCEEDING 2,500 SQUARE FEET SHALL HAVE A SEISMIC SEPARATION JOINT.
11. EXPANSION JOINTS SHALL BE PROVIDED AT INTERSECTIONS OF CORRIDORS, LOBBIES AND OTHER SIMILAR AREAS.
12. PENETRATIONS THROUGH THE CEILING, SUCH AS FIRE SPRINKLERS, SHALL HAVE A 2 INCH OVERSIZED RING, SLEEVE OR ADAPTER TO ALLOW FREE MOVEMENT INDEPENDENT OF THE CEILING. ALTERNATE: A FLEXIBLE SPRINKLER FITTING THAT PROVIDES 1 INCH OF MOVEMENT CAN BE USED.
13. LATERAL FORCE BRACING IS REQUIRED FOR ALL CEILINGS, EXCEPT CEILING AREAS OF 144 SQUARE FEET OR LESS WITH PERIMETER WALLS THAT ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES. SPACING OF BRACING ASSEMBLIES MUST BE SHOWN ON THE PLANS.
14. LATERAL FORCE BRACING CONSISTS OF A SET OF 1 COMPRESSION STRUT AND FOUR #12 GA. SPLAYED BRACING WIRES, ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:  
 (A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 8 FEET BY 12 FEET ON CENTER.  
 (B) PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL D.S.A. APPROVAL.
15. COMPRESSION STRUTS SHALL BE ABLE TO RESIST THE VERTICAL PULL INDUCED BY BRACING WIRES, AND SHALL NOT BE MORE THAN 1:6 OUT OF PLUMB.
16. FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS WITHIN A DISTANCE OF 3 INCHES. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
17. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC.
18. ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS WITH SCREWS OR APPROVED FASTENERS AS REQUIRED TO RESIST A HORIZONTAL FORCE EQUAL TO THE FIXTURES' WEIGHT. MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE.
19. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM, BUT THEY MUST HAVE A MINIMUM OF TWO #12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. FIXTURES WEIGHING LESS THAN 10 POUNDS MAY HAVE AT LEAST ONE #12 GA. SLACK SAFETY WIRE.
20. LIGHT FIXTURES AND OTHER CEILING DEVICES WEIGHING MORE THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NO LESS THAN FOUR (4) TAUT #12 GAGE WIRES, ATTACHED TO THE STRUCTURE ABOVE. WIRES MUST BE ABLE TO SUPPORT FOUR (4) TIMES THE WEIGHT OF THE UNIT.
21. ALL LIGHT-WEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 2.6.3 OF D.S.A. IR 25-2.13. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 7.2.2 OF D.S.A. IR 25-2.13. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.3.4 OF D.S.A. IR 25-2.13.
22. PANELS THAT WEIGH MORE THAN 0.5 LBS/SQ.FT. (PSF), OTHER THAN MINERAL FIBER ACOUSTIC TILES, SHALL BE POSITIVELY ATTACHED TO CEILING SUSPENSION RUNNERS.
23. ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS, LAY-IN PANELS, SQUARE EDGE, ASTM FLAME SPREAD CLASS T, 24"x48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM, MAXIMUM SMOKE DENSITY NOT TO EXCEED 450. FLAME SPREAD RATING MAXIMUM OF 200. PANELS ARE NOT ALLOWED TO SUPPORT ANY FIXTURE, TERMINAL OR DEVICE.

TABLE A - HEAVY DUTY GRID COMPONENTS				
MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE	RUNNER SPLICE DETAIL
DONN/USG	DX-26	DX-424	DX-216	N/A
ARMSTRONG	7301	XL7341	XL8320	N/A
CHICAGO/ROCKFON	200.01	1274.01	1202.01	N/A
NOTE: ALL GRID COMPONENTS SHALL BE BY THE SAME MANUFACTURER.				

**HVAC GENERAL NOTES**

**HEATING VENTILATING AND AIR CONDITIONING (HVAC)**

1. HEAT PUMP: SINGLE PACKAGE WALL-MOUNTED AIR-TO-AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH A.R.I. STANDARD 240-77. MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT. ALL UNITS SHALL BE 230/208 VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE, AND MEET CURRENT ENERGY STANDARDS.
  - A. THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78 DEGREES F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER.
  - B. THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY ONE-THIRD FRESH AIR.
2. DUCTWORK
  - A. CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE EQUIPMENT VOLUME, AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL, LATEST EDITIONS. ALL DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT ATTENUATION AT ALL DUCTWORK WITHIN 2'-0" OF HVAC UNIT.
  - B. NON-METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM, RIGID 1" FIBERGLASS OR INSULATED FLEX-DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 2'-0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE. REFERENCE BRANDS: OWENS-CORNING FIBERGLASS DUCTBOARD, 1" THICK, AND MICRO-AIRE TYPE 475. NON-METALLIC DUCTWORK SHALL CONFORM TO NFPA 90-A AND SMACNA CLASS 1 RATING.
3. AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25, SMOKE GENERATION LESS THAN OR EQUAL TO 50.
4. SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAXIMUM, 12" ROUND, 1" FIBERGLASS OR FLEXDUCT DUCTWORK SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS. 24"x8"x1" MICRO-AIRE TYPE #475 OWENS-CORNING, KNAUF, CERTANTEED, OR EQUAL AND 90-B: UL #131 TEST, CLASS 1 RATING WITH "SMACNA".
5. REGISTERS AND DIFFUSERS: PROVIDE THREE (MINIMUM) 4-WAY THROW AIR DIFFUSERS AS MANUFACTURED BY CARNES, TITUS, HART AND COOLEY, METALAIRE, SHOEMAKER, BARBER-COLEMAN OR KRUEGER COMMERCIAL GRADE GRILLS AND REGISTERS.
6. AIR CONDITIONING CONTROLS: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS:
  - A. 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING DAYS WITH 4 SEPARATE TIME/TEMPERATURE SETTINGS FOR A 24-HOUR PERIOD.
  - B. KEY BOARD LOCKOUT SWITCH.
  - C. PROGRAMMABLE DISPLAY.
  - D. 2-HOUR OVERRIDE MINIMUM.
  - E. STATUS INDICATED LED'S.
  - F. BATTERY BACK-UP.
  - G. PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM OVERRIDE. WHITE RODGERS IF92-371. MOUNT TOP OF BOX @ 48" A.F.F. MAX.
7. THERMAL INSULATION
  - A. ROOF INSULATION: R-19 WITH 22 GA. WIRE @ 16" O.C. & R-1 TOP OF PURLINS.
  - B. WALLS INSULATION: R-13 KRAFT FACED. (R-5 INSULATION OVER METAL FRAMED WALLS)
  - C. NON-CONCRETE FLOORS INSULATION: R-13
  - D. CONCRETE FLOORS INSULATION: N/A
  - E. FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 720.
8. FACTORY-MADE AIR DUCTS
  - A. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. SECTION 601.0.
  - B. EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH C.M.C. SECTION 601.0 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE REQUIREMENTS OF C.M.C. SECTION 601.0.
  - C. DUCT SUPPORT FLEX DUCT TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAP @ MAX 6'-0" O.C. ATTACH TO RAFTER WITH TWO #8 S.M.S. @ EACH END.
  - D. SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAPS MINIMUM 2 PER PLENUM.
  - E. SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE CORNERS.
  - F. SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS. ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE WEIGHT OF THE DIFFUSER AND SUPPLY AIR BOX WITH TWO #8 S.M.S.
9. FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:
  - A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES;
  - B. AT THE CEILING AND FLOOR LEVELS;
  - C. AND AT 10-FOOT (3048mm) INTERVALS BOTH VERTICAL AND HORIZONTAL. REFERENCE 2019 CBC SECTION 718.
10. THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4. (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")
11. HVAC FILTER
  - A. FILTERS SHALL HAVE A "MINIMUM EFFICIENCY REPORTING VALUE" OF 8 (MERV 8) AND SHALL BE INSTALLED PRIOR TO OCCUPANCY AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL, PER 2019 CEC SECTION 5.504.5.3.
  - B. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INCLUDING THE MERV RATING, PER 2019 CEC SECTION 5.504.5.3.1

**HVAC SCHEDULES**

BARD Q-TEC

**HVAC CFM CHART**

MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS.)	EER	COP	CLIMATE ZONE(S)
48GC	GAS/ELECTRIC	1600	559	10.0	3.0	1-13, 16

**INSULATION SCHEDULE**

ZONE	WALL	ROOFS		FLOORS (NON-CONCRETE)	CONCRETE FLOORS
		BATTS	OTHER		
1-14, & 15	*R-13	**R-19	***R-1	R-13	-
16	*R-13	**R-19	***R-1	R-13	-

\*R-5 RIGID INSULATION TO BE USED OVER METAL FRAMED WALLS  
 \*\*R-19 w/ 22 GA WIRE @ 16" O.C.  
 \*\*\*R-1 MAY BE ACHIEVED W/ POLYSTYRENE OR INSULATION TAPE APPLIED TO TOP FLANGE OF PURLINS, OR EQUAL.



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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS	

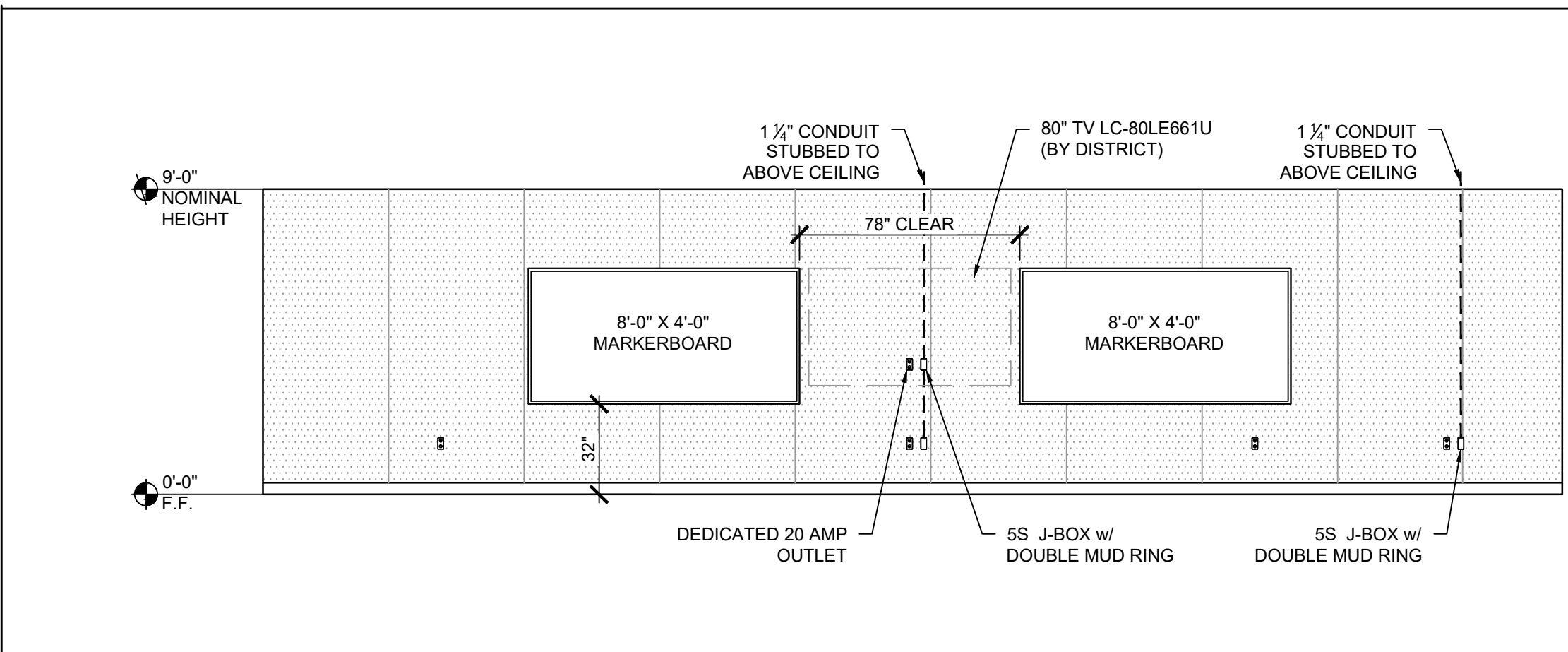
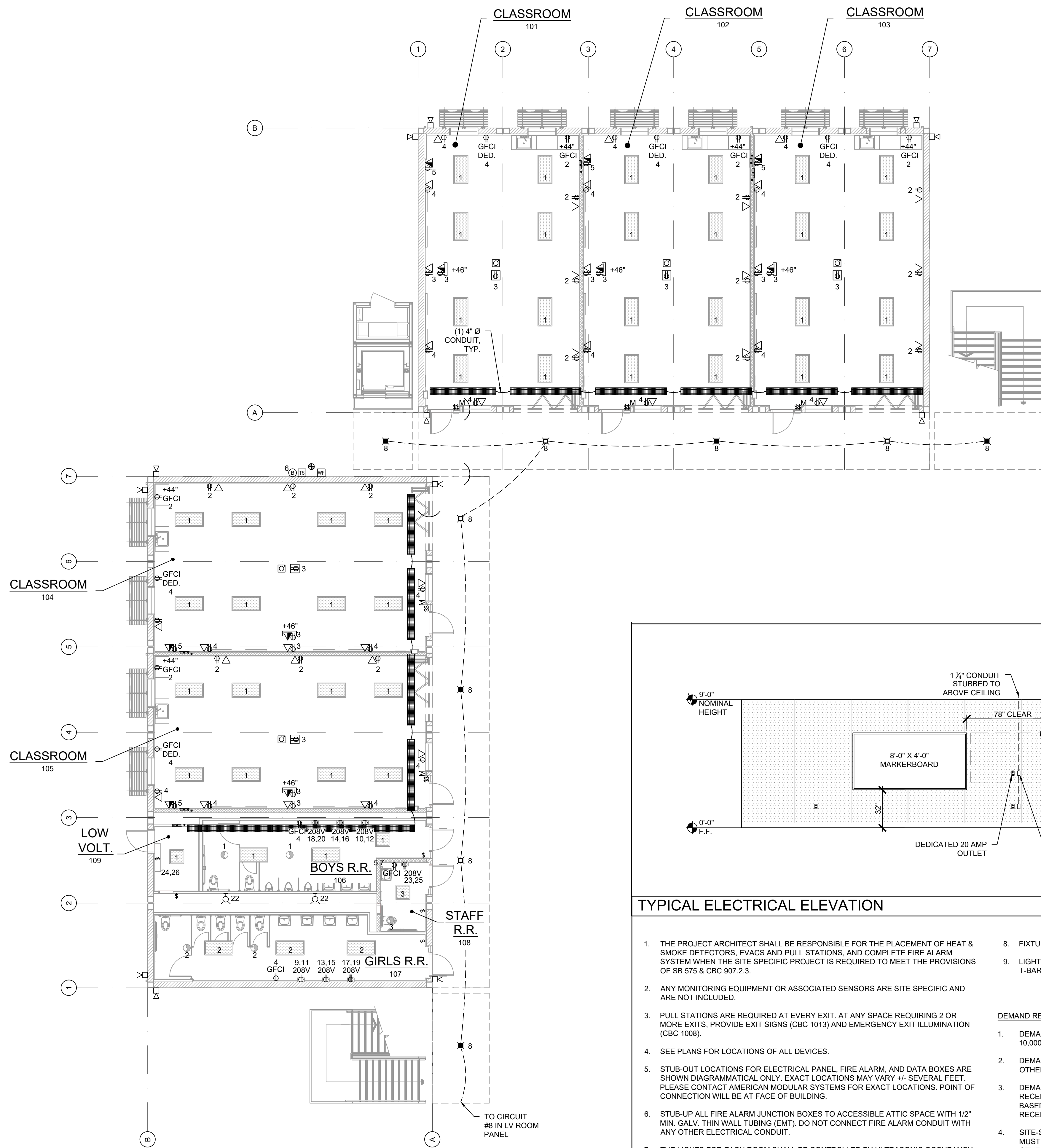
DRAWN BY: AH  
 SCALE: AS NOTED  
 DATE: 07/05/21  
 PROJECT NO: 1614-20  
 SHEET TITLE:

**CEILING NOTE, MECHANICAL NOTES & SCHEDULES**

SHEET NUMBER:  
**M1.7**

BID SET 10/01/2021





TYPICAL ELECTRICAL ELEVATION

- THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT & SMOKE DETECTORS, EVACS AND PULL STATIONS, AND COMPLETE FIRE ALARM SYSTEM WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3.
  - ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED.
  - PULL STATIONS ARE REQUIRED AT EVERY EXIT. AT ANY SPACE REQUIRING 2 OR MORE EXITS, PROVIDE EXIT SIGNS (CBC 1013) AND EMERGENCY EXIT ILLUMINATION (CBC 1008).
  - SEE PLANS FOR LOCATIONS OF ALL DEVICES.
  - STUB-OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES ARE SHOWN DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
  - STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.
  - THE LIGHTS FOR EACH ROOM SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN CONJUNCTION WITH BI-LEVEL SWITCHING.  
  
EXCEPTION: SINGLE-STALL BATHROOMS LESS THAN 70 SQUARE FEET, AND CLOSETS LESS THAN 70 SQUARE FEET MAY USE COUNTDOWN TIMER SWITCHES WITH A MAXIMUM SETTING CAPABILITY OF TEN MINUTES TO COMPLY WITH THE AUTOMATIC SHUT-OFF REQUIREMENTS.
  - FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.
  - LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-BAR GRID LAYOUT.
- DEMAND RESPONSE CONTROLS**
- DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
  - DEMAND RESPONSE CONTROLS WHERE REQUIRED ARE TO BE PROVIDED BY OTHERS.
  - DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
  - SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMISSION OF FORM NRCC-ELC-01-E TO DSA (BY OTHERS).

- ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH, U.O.N.
- INCANDESCENT WALL MOUNTED INTERIOR LIGHT FIXTURE
- EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 35W)
- EXTERIOR SOFFIT MOUNTED LIGHT FIXTURE ENERTRON MODEL 110BSH2X6LED-50 LOW PROFILE LED OR EQUAL (MAX 26W)
- EXTERIOR SOFFIT MOUNTED LIGHT FIXTURE ENERTRON MODEL 110BSH2X6LED-50 LOW PROFILE LED OR EQUAL (MAX 26W) WITH EMERGENCY 90 MINUTE MINIMUM BATTERY BACK-UP.
- UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- CONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N. - TO BE CONTROLLED BY OCCUPANCY SENSOR.
- FOURPLEX WALL OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE - U.O.N.
- WEATHER-PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- 120/208V DEDICATED OUTLET - COORDINATE INSTALLATION HEIGHT WITH SPECIFIC ITEM
- CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ +46" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- SINGLE POLE SWITCH - MOUNT @ +46" A.F.F. MAX TO TOP OF BOX - FOR MOTORIZED WINDOW
- THERMOSTAT - TOP OF BOX MOUNTED @ +46" A.F.F.
- JUNCTION BOX - SIZE / LOCATION A.F.F. / TYPE AS NOTED
- ELECTRICAL CROSSOVER - J-BOX - ABOVE CEILING - #1- 4"x1", #22- 4"x2"
- BOX FOR FIRE RISER BELL - PROVIDE (1) 4" SQ. BOX WITH DOUBLE DEVICE RING AND COVER @ 24" 9" TO CENTER OF BOX - INTERCONNECT WITH FIRE RISER BELL BOX WITH (1) 3/4" Ø CONDUIT (DEVICE BY OTHERS)
- DATA/COMMUNICATION - OUTLET ONLY - 5" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N. AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- DATA/COMMUNICATION - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N. AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH CEILING
- SECURITY CAMERA - OUTLET ONLY - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER MOUNTED AT 10'-0" A.F.F. TO CENTER OF BOX WITH (1) 3/4" DIA CONDUIT STUBBED TO ABOVE CEILING - DEVICES BY OTHERS
- 2x4' LED DROP IN FIXTURE, MODEL: LSI-SFP24 - 50 WATTS MAX OR EQUAL
- 2x2' LED DROP IN FIXTURE, MODEL: LSI-SFP22 - 30 WATTS MAX OR EQUAL
- CONDUIT SLEEVE AT MODULE LINE - (1) 4" DIA AT GROUND FLOOR AND (3) 2" DIA AT UPPER FLOOR
- CABLE TRAY MODEL CF 105/300 EZ OR EQUAL INSTALL PER DETAIL 2/E1.3A
- BOX FOR FIRE RISER TAMPER SWITCH - PROVIDE (1) 4" SQ. BOX WITH DOUBLE DEVICE RING AND COVER @ 5'-5" TO CENTER OF BOX STUB TO ABOVE CEILING WITH (1) 3/4" Ø CONDUIT (DEVICE BY OTHERS)
- BOX FOR FIRE RISER WATER FLOW SWITCH - PROVIDE (1) 4" SQ. BOX WITH DOUBLE DEVICE RING AND COVER WITH 120V FROM 20A DEDICATED BREAKER @ 5'-5" TO CENTER OF BOX INTERCONNECT WITH FIRE RISER BELL BOX WITH (1) 3/4" Ø CONDUIT (DEVICES BY OTHERS)
- EXTERIOR WALL MOUNTED LIGHT - INTERWIRE FROM DEDICATED BREAKER TO 4" SQUARE BOX IN ATTIC OF LOW ROOM ONLY. CONTROLS AND FINAL WIRING BY OTHERS. MOUNT AT 16'-0" A.F.F.

STANDARD ELECTRICAL SYMBOLS

**ENERGY CONTROLS**

- DEMAND RESPONSE CONTROLS: REQUIREMENTS PER GENERAL NOTES.
  - AUTOMATIC DAYLIGHTING CONTROLS: NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS.
  - ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION: PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
- NOTE: ANT MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED.

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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD

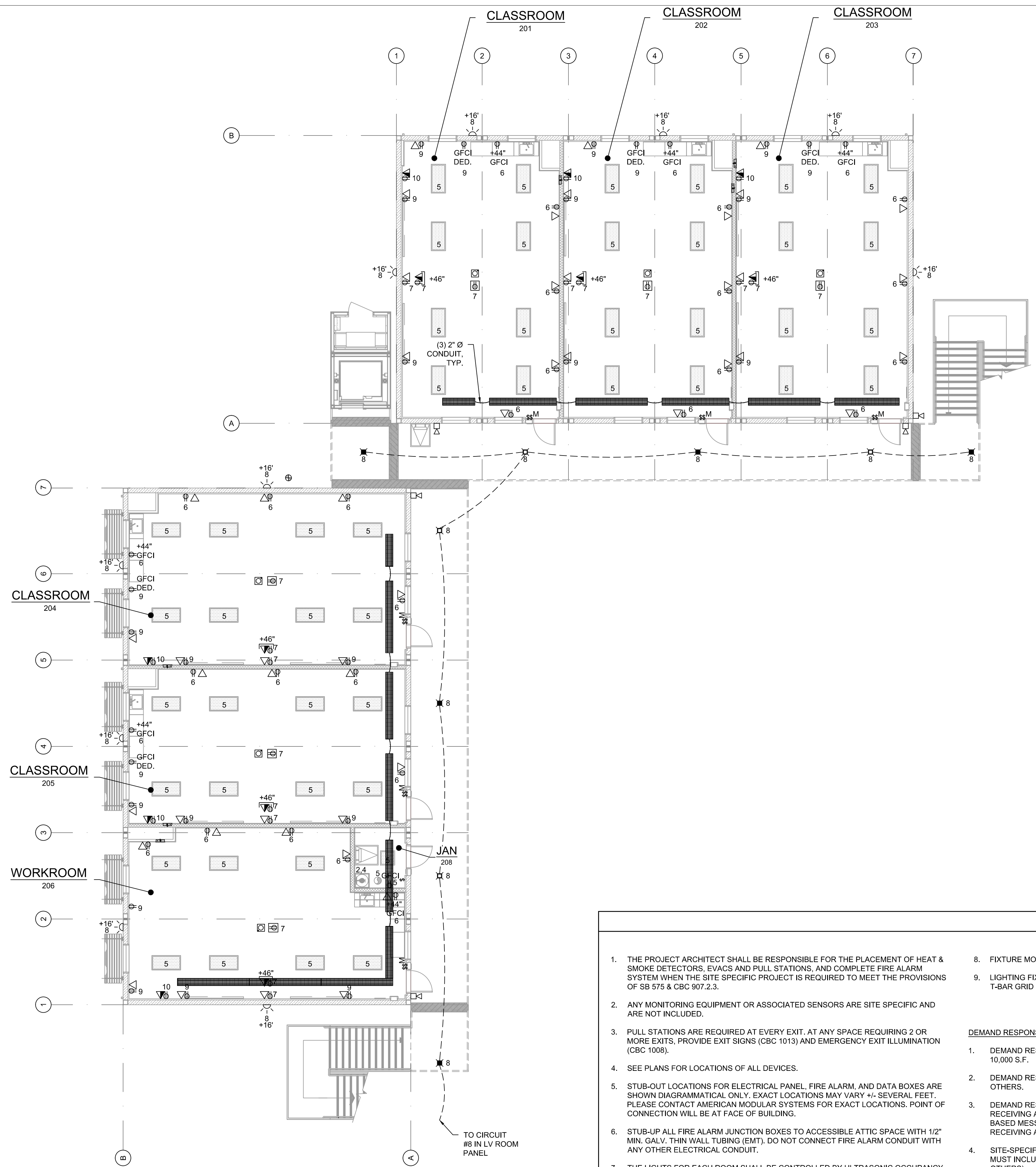
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REVISIONS	

DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 03/15/21  
PROJECT NO: 1613-20

SHEET TITLE:  
**GROUND FLOOR ELECTRICAL FLOOR PLAN**

SHEET NUMBER:  
**E1.0**



- ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH, U.O.N.
- INCANDESCENT WALL MOUNTED INTERIOR LIGHT FIXTURE
- EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 35W)
- EXTERIOR SOFFIT MOUNTED LIGHT FIXTURE ENERTRON MODEL 110BSH2X6LED-50 LOW PROFILE LED OR EQUAL (MAX 26W)
- EXTERIOR SOFFIT MOUNTED LIGHT FIXTURE ENERTRON MODEL 110BSH2X6LED-50 LOW PROFILE LED OR EQUAL (MAX 26W) WITH EMERGENCY 90 MINUTE MINIMUM BATTERY BACK-UP.
- UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- CONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N. - TO BE CONTROLLED BY OCCUPANCY SENSOR.
- FOURPLEX WALL OUTLET - MOUNT @ +18" A.F.F. TO CENTER LINE - U.O.N.
- WEATHER-PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- GFCI GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- 120/208V DEDICATED OUTLET - COORDINATE INSTALLATION HEIGHT WITH SPECIFIC ITEM
- CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ +46" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- SINGLE POLE SWITCH - MOUNT @ +46" A.F.F. MAX TO TOP OF BOX - FOR MOTORIZED WINDOW
- THERMOSTAT - TOP OF BOX MOUNTED @ +46" A.F.F.
- JUNCTION BOX - SIZE / LOCATION A.F.F. / TYPE AS NOTED
- ELECTRICAL CROSSOVER - J-BOX - ABOVE CEILING - #1- 4"x1", #22- 4"x2"
- BOX FOR FIRE RISER BELL - PROVIDE (1) 4" SQ. BOX WITH DOUBLE DEVICE RING AND COVER @ +8"-9" TO CENTER OF BOX - INTERCONNECT WITH WITH FIRE RISER BELL BOX WITH (1) 3/4" CONDUIT (DEVICE BY OTHERS)
- DATA/COMMUNICATION - OUTLET ONLY - 5" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- DATA/COMMUNICATION - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH CEILING
- SECURITY CAMERA - OUTLET ONLY - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER MOUNTED AT 10'-0" A.F.F. TO CENTER OF BOX WITH (1) 3/4" DIA CONDUIT STUBBED TO ABOVE CEILING - DEVICES BY OTHERS
- 2x4' LED DROP IN FIXTURE, MODEL: LSI-SFP24 - 50 WATTS MAX OR EQUAL
- 2x2' LED DROP IN FIXTURE, MODEL: LSI-SFP22 - 30 WATTS MAX OR EQUAL
- CONDUIT SLEEVE AT MODULE LINE - (1) 4" DIA AT GROUND FLOOR AND (3) 2" DIA AT UPPER FLOOR
- CABLE TRAY MODEL CF 105/300 EZ OR EQUAL INSTALL PER DETAIL 2/E1.3A
- BOX FOR FIRE RISER TAMPER SWITCH- PROVIDE (1) 4" SQ. BOX WITH DOUBLE DEVICE RING AND COVER @ 5'-5" TO CENTER OF BOX STUB TO ABOVE CEILING WITH (1) 3/4" CONDUIT (DEVICE BY OTHERS)
- BOX FOR FIRE RISER WATER FLOW SWITCH- PROVIDE (1) 4" SQ. BOX WITH DOUBLE DEVICE RING AND COVER WITH 120V FROM 20A DEDICATED BREAKER @ 5'-5" TO CENTER OF BOX INTERCONNECT WITH FIRE RISER BELL BOX WITH (1) 3/4" CONDUIT (DEVICES BY OTHERS)
- EXTERIOR WALL MOUNTED LIGHT- INTERWIRE FROM DEDICATED BREAKER TO 4" SQUARE BOX IN ATTIC OF LOW ROOM ONLY. CONTROLS AND FINAL WIRING BY OTHERS. MOUNT AT 16'-0" A.F.F.

**AMS**  
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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS	

DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 12/04/20  
PROJECT NO: 1614-20

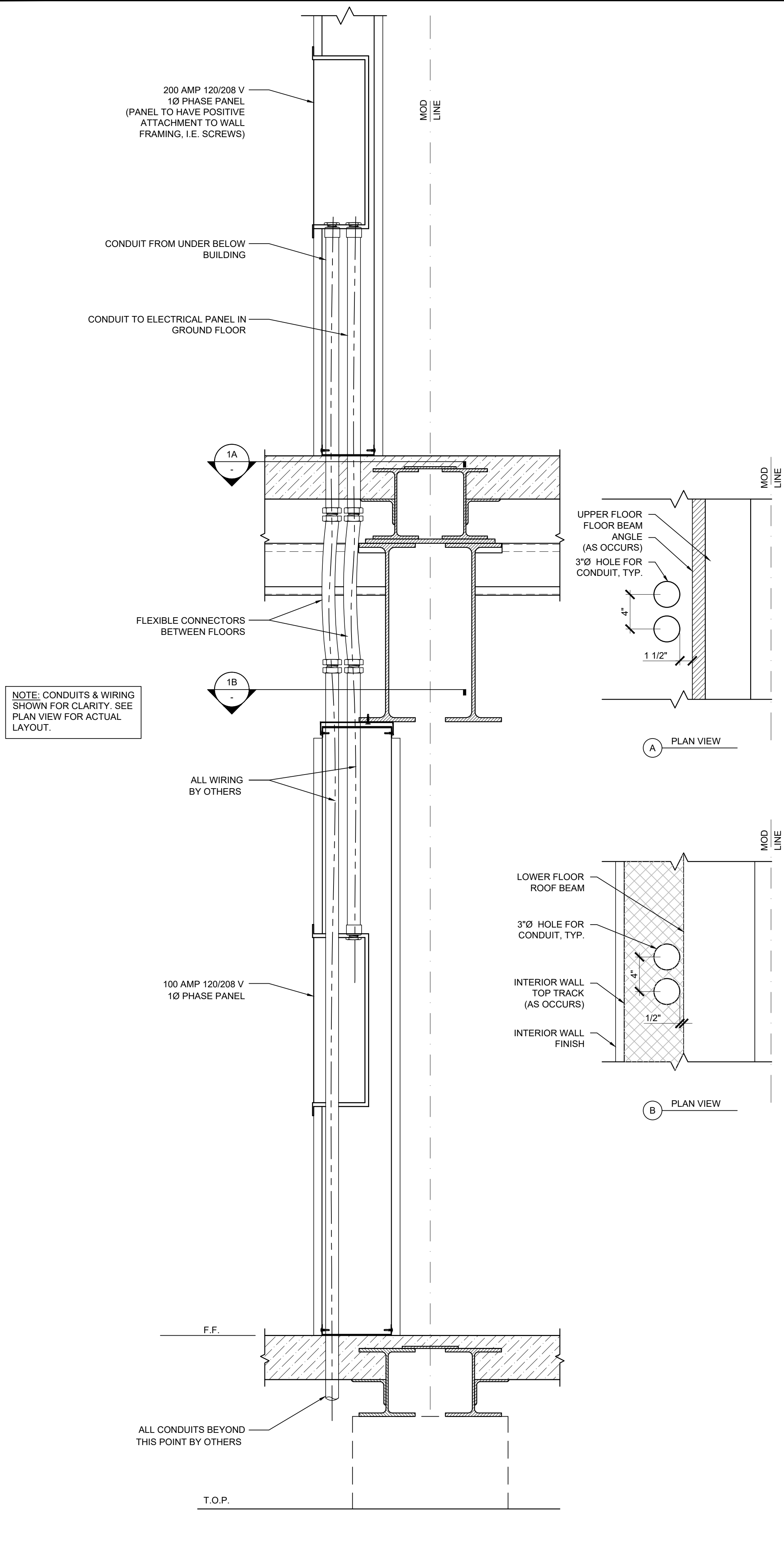
SHEET TITLE:  
**GROUND FLOOR ELECTRICAL FLOOR PLAN**

SHEET NUMBER:  
**E1.1**

- THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT & SMOKE DETECTORS, EVACS AND PULL STATIONS, AND COMPLETE FIRE ALARM SYSTEM WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3.
  - ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED.
  - PULL STATIONS ARE REQUIRED AT EVERY EXIT. AT ANY SPACE REQUIRING 2 OR MORE EXITS, PROVIDE EXIT SIGNS (CBC 1013) AND EMERGENCY EXIT ILLUMINATION (CBC 1008).
  - SEE PLANS FOR LOCATIONS OF ALL DEVICES.
  - STUB-OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES ARE SHOWN DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
  - STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT), DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.
  - THE LIGHTS FOR EACH ROOM SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN CONJUNCTION WITH BI-LEVEL SWITCHING.  
  
EXCEPTION: SINGLE-STALL BATHROOMS LESS THAN 70 SQUARE FEET, AND CLOSETS LESS THAN 70 SQUARE FEET MAY USE COUNTDOWN TIMER SWITCHES WITH A MAXIMUM SETTING CAPABILITY OF TEN MINUTES TO COMPLY WITH THE AUTOMATIC SHUT-OFF REQUIREMENTS.
  - FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.
  - LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-BAR GRID LAYOUT.
- DEMAND RESPONSE CONTROLS**
- DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
  - DEMAND RESPONSE CONTROLS WHERE REQUIRED ARE TO BE PROVIDED BY OTHERS.
  - DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
  - SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMISSION OF FORM NRCC-ELC-01-E TO DSA (BY OTHERS).

- ENERGY CONTROLS**
- DEMAND RESPONSE CONTROLS: REQUIREMENTS PER GENERAL NOTES.
  - AUTOMATIC DAYLIGHTING CONTROLS: NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS.
  - ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION: PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.

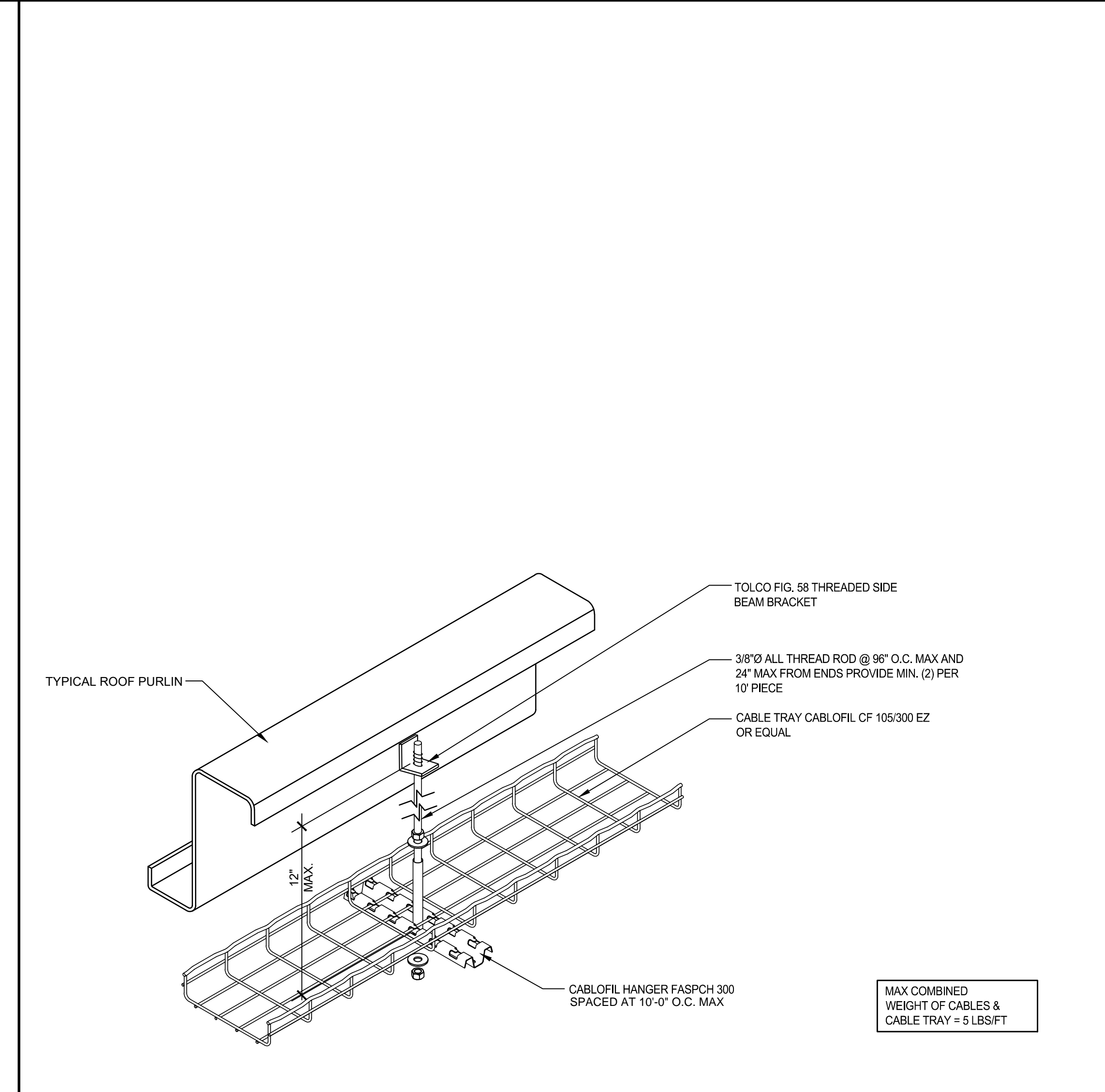
NOTE: ANT MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED.



NOTE: CONDUITS & WIRING SHOWN FOR CLARITY. SEE PLAN VIEW FOR ACTUAL LAYOUT.

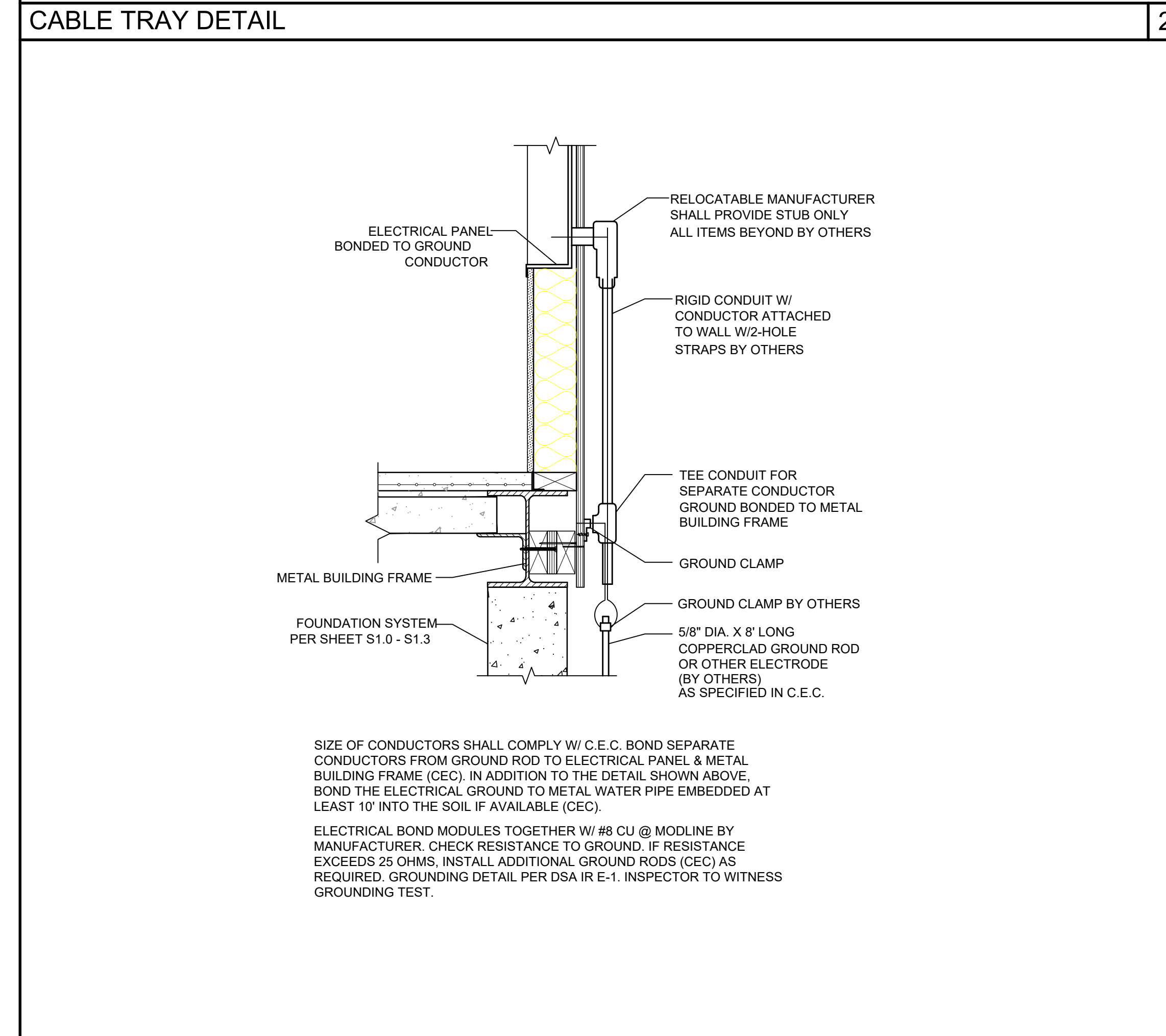
ELECTRICAL PANEL CONNECTION DETAIL

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



CABLE TRAY DETAIL

MAX COMBINED WEIGHT OF CABLES & CABLE TRAY = 5 LBS/FT



SIZE OF CONDUCTORS SHALL COMPLY W/ C.E.C. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC).

ELECTRICAL BOND MODULES TOGETHER W/ #8 CU @ MODLINE BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1, INSPECTOR TO WITNESS GROUNDING TEST.

GROUNDING DETAIL

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

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
4. JUNCTION BOXES - GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
5. COVERS - INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
6. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2019 EDITION OF NFPA 72.
7. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
8. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).
9. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ), NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).
10. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72, CHAPTER 26. THE SUPERVISING STATION SHALL BE LISTED AS EITHER ULFV OR ULUS 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. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15dB OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY.

GENERAL NOTES

1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
2. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
3. PANEL A LISTED FOR USE AS SERVICE EQUIPMENT.


ELECTRICAL NOTES:

1. ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
2. MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
3. ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
4. CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET.  
A. CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE  
B. CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPARABLE HANGING CLIP & APP'D RECEIPT.
5. THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING.
6. IF 60 DEGREES C WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY SHALL BE PROVIDED ON THE DRAWING.

DEMAND RESPONSE CONTROLS

1. DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
2. DEMAND RESPONSE CONTROLS WHERE REQUIRED ARE TO BE PROVIDED BY OTHERS.
3. DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
4. SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMISSION OF FORM NRCC-ELC-01-E TO DSA (BY OTHERS).

GENERAL NOTES



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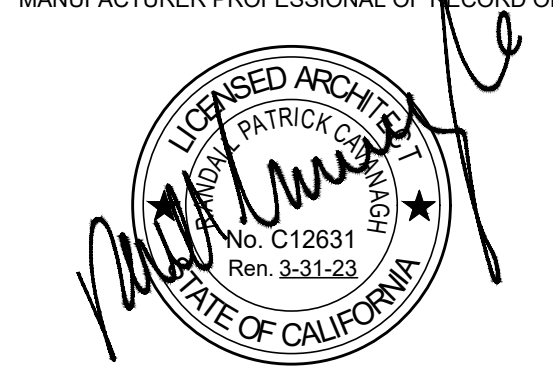
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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

---

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

---

MANUFACTURER PROFESSIONAL OF RECORD ON PC  


---

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REVISIONS


---

DRAWN BY: AH  
 SCALE: AS NOTED  
 DATE: 07/05/21  
 PROJECT NO: 1614-20

---

SHEET TITLE:  
**ELECTRICAL NOTES & DETAILS**

---

SHEET NUMBER:  
**E1.2**

BID SET 10/01/2021

Panel:	A-1			PHASE:		VOLTS:		MAIN (AMPS):				BUSS (AMPS):				LOCATION:		FEED:			MOUNTING:	
	OBJECT DESCRIPTION	WATTS PER	QTY	LCL	SINGLE		BRK	POLE	WIRE SIZE	CKT #	LEG	CKT #	WIRE SIZE	POLE	BRK	INTERIOR		TOP - FROM PANEL ABOVE		RECESSED		
					A	B										A	B	LCL	QTY		WATTS PER	OBJECT DESCRIPTION
CLASSROOM LIGHTS	50	8			400		20	1	#12	1	X	2	#12	1	20			720		4	180	RECEPTS
MONITOR OUTLET	380	1			380		20	1	#12	3	X	4	#12	1	20			900		5	180	RECEPTS
DED. RECEPT	360	1			360		20	1	#12	5	X	6	#12	1	20			180		1	180	FIRE BELL AT CLASSROOM
					0					7	X	8						0				
					0					9	X	10						0				
					0					11	X	12						0				
					0					13	X	14						0				
					0					15	X	16						0				
					0					17	X	18						0				
					0					19	X	20						0				
					0					21	X	22						0				
					0					23	X	24						0				
					0					25	X	26						0				
					0					27	X	28						0				
					0					29	X	30						0				
LEG TOTALS					760	380											900	900	LEG TOTALS			
LCL=0+2940=2940															TOTAL AMPS:		12.25					
TOTAL WATTS:				2940											LEG BALANCE:		12.9%					

LOAD PANEL CALCULATIONS- TYPICAL LOWER CLASSROOM

1

Panel:	ELECTRICAL ROOM			PHASE:		VOLTS:		MAIN (AMPS):				BUSS (AMPS):				LOCATION:		FEED:			MOUNTING:	
	OBJECT DESCRIPTION	WATTS PER	QTY	LCL	SINGLE		BRK	POLE	WIRE SIZE	CKT #	LEG	CKT #	WIRE SIZE	POLE	BRK	INTERIOR		BOTTOM - BELOW FLOOR		RECESSED		
					A	B										A	B	LCL	QTY		WATTS PER	OBJECT DESCRIPTION
BOYS R.R. LIGHTS/EXHAUST	550	1			550		20	1	#12	1	X	2	#12	1	20			550		1	550	GIRLS R.R. LIGHTS/EXHAUST
STAFF R.R. LIGHTS/EXHAUST	150	1			150		20	1	#12	3	X	4	#12	1	20			180		1	180	GFCI GIRLS R.R. ELECT ROOM REC
WATER HEATER	900	1			900		20	2	#12	5	X	6	#12	1	20			720		4	180	SOFFIT/EXT. LIGHTS
HAND DRYER	745	1			745		20	2	#12	9	X	10	#12	2	20			745		1	745	HAND DRYER
HAND DRYER	745	1			745		20	2	#12	11	X	12	#12	2	20			745		1	745	HAND DRYER
HAND DRYER	745	1			745		20	2	#12	13	X	14	#12	2	20			745		1	745	HAND DRYER
HAND DRYER	745	1			745		20	2	#12	15	X	16	#12	2	20			745		1	745	HAND DRYER
HAND DRYER	745	1			745		20	2	#12	17	X	18	#12	2	20			745		1	745	HAND DRYER
GFCI BOYS R.R.	180	1			180		20	1	#12	21	X	22	#12	1	20			200		2	100	FLOOR CHASE LIGHTS
HAND DRYER	745	1			745		20	2	#12	23	X	24	#12	2	15			1560		1	1560	MINI SPLIT UNIT
					0					25	X	26						1560				
					0					27	X	28						0				
					0					29	X	30						0				
LEG TOTALS					4610	4030											5265	4676	LEG TOTALS			
LCL=0+18581=18581															TOTAL AMPS:		77.42					
TOTAL WATTS:				18581											LEG BALANCE:		6.3%					

LOAD PANEL CALCULATIONS- LOW VOLTAGE ROOM

2

Panel:	TYPICAL UPPER CLASSROOM			PHASE:		VOLTS:		MAIN (AMPS):				BUSS (AMPS):				LOCATION:		FEED:			MOUNTING:	
	OBJECT DESCRIPTION	WATTS PER	QTY	LCL	SINGLE		BRK	POLE	WIRE SIZE	CKT #	LEG	CKT #	WIRE SIZE	POLE	BRK	INTERIOR		BOTTOM - BELOW FLOOR		RECESSED		
					A	B										A	B	LCL	QTY		WATTS PER	OBJECT DESCRIPTION
HVAC UPPER FLOOR	4160	1	X		4160		50	2	#6	1	X	2	#6	2	50			4160		1	4160	HVAC LOWER FLOOR
	4160	-	X		4160		-	-	-	3	X	4	-	-	-			4160		X	-	4160
CLASSROOM LIGHTS	50	8			400		20	1	#12	5	X	6	#12	1	20			900		5	180	RECEPTS
MONITOR OUTLET	380	1			380		20	1	#12	7	X	8	#12	1	20			360		2	180	HVAC RECEPT
RECEPTS	180	4			720		20	1	#12	9	X	10	#12	1	20			0		1	360	DED RECEPT
					0					11	X	12						0				
					0					13	X	14						0				
					0					15	X	16	#8	2	40			1300		1	1300	ELECTRICAL PANEL AT GROUND FLOOR
					0					17	X	18						1280		1	1280	
					0					19	X	20						0				
					0					21	X	22						0				
					0					23	X	24						0				
					0					25	X	26						0				
					0					27	X	28						0				
					0					29	X	30						0				
LEG TOTALS					5280	4540											6340	5820	LEG TOTALS			
LCL=4160+21980=26140															TOTAL AMPS:		108.92					
TOTAL WATTS:				26140											LEG BALANCE:		5.7%					

LOAD PANEL CALCULATIONS - TYPICAL UPPER CLASSROOM

3

Panel:	WORKROOM			PHASE:		VOLTS:		MAIN (AMPS):				BUSS (AMPS):				LOCATION:		FEED:			MOUNTING:	
	OBJECT DESCRIPTION	WATTS PER	QTY	LCL	SINGLE		BRK	POLE	WIRE SIZE	CKT #	LEG	CKT #	WIRE SIZE	POLE	BRK	INTERIOR		BOTTOM - BELOW FLOOR		RECESSED		
					A	B										A	B	LCL	QTY		WATTS PER	OBJECT DESCRIPTION
HVAC UPPER FLOOR	4160	1	X		4160		50	2	#6	1	X	2	#10	2	30			1500		1	1500	WATER HEATER
	4160	-	X		4160		-	-	-	3	X	4	-	-	-			1500		-	-	1500
WORKROOM LIGHTS	50	7			350		20	1	#12	5	X	6	#12	1	20			900		5	180	RECEPTS
RECEPTS	180	3			540		20	1	#12	7	X	8	#12	1	20			360		2	180	HVAC RECEPT
RECEPTS	180	4			720		20	1	#12	9	X	10	#12	1	20			0		1	180	DED RECEPT
SPARE		1			0		20	1	#12	11	X	12	#12	1	20			430		1	430	JANITOR'S ROOM
					0					13	X	14						0				
					0					15	X	16						0				
					0					17	X	18						0				
					0					19	X	20						0				
					0					21	X	22						0				
					0					23	X	24						0				
					0					25	X	26						0				
					0					27	X	28						0				
					0					29	X	30						0				
LEG TOTALS					5230	4701											2400	2290	LEG TOTALS			
LCL=2080+14621=16701															TOTAL AMPS:		69.59					
TOTAL WATTS:				16701											LEG BALANCE:		4.4%					

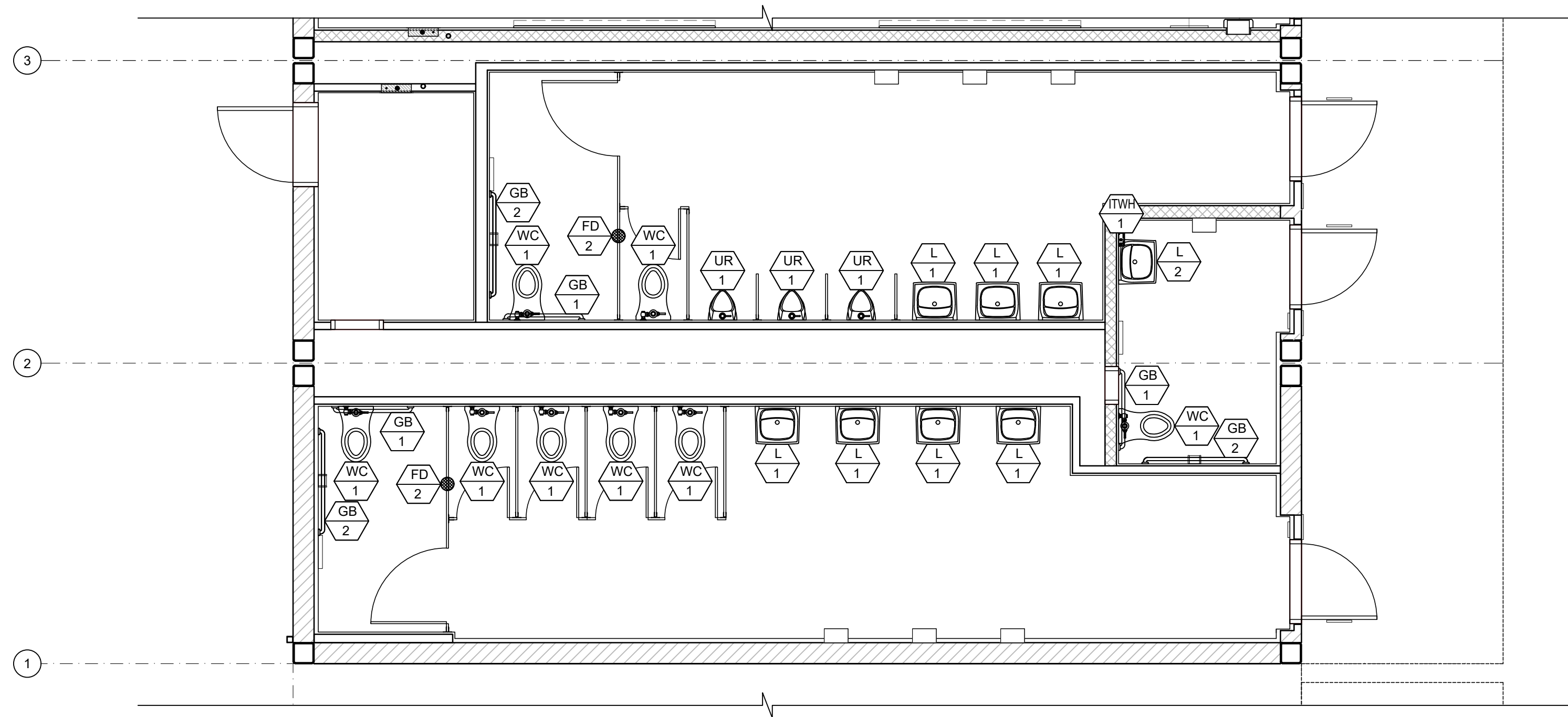
NOTE: FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY (NFPA 72 10.6.5.2)

LOAD PANEL CALCULATIONS - WORKROOM

4

FIRE ALARM SYSTEM

- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
- INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
- JUNCTION BOXES - GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
- COVERS - INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2019 EDITION OF NFPA



MARK	FIXTURE <sup>1</sup>	TYPE AT KINDERGARTEN	TYPE AT ELEMENTARY	TYPE AT ADULT	REMARKS
WC 1		CANNOT USE	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 15" A.F.F. - FLOW RATE OF 1.28 G.P.F.	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 15" A.F.F. - FLOW RATE OF 1.28 G.P.F.	FLUSH VALVE ZURN MODEL Z6000AV-HET - 1.28 G.P.F. OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 7/P2.0.
L 1			KOHLER 'KINGSTON' MODEL K-2007-0		BOYS/GIRLS RESTROOM- TOUCHLESS FAUCET SLOAN MODEL SF-2150-4-BDM OR EQUAL - COLD WATER ONLY - SINGLE SPOUT MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 7/P2.0 - FLOW RATE OF 0.5 G.P.M.
L 2			KOHLER 'KINGSTON' MODEL K-2005-0		ADULT RESTROOM- TOUCHLESS FAUCET SLOAN MODEL SF-2150-4-BDM OR EQUAL HOT/COLD WATER - 4" ON CENTER HOLE. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 7/P2.0 - FLOW RATE OF 0.5 G.P.M.
UR 1			WALL MOUNT TYPE KOHLER MODEL DEXTER K-5452-ET-0 OR EQUAL FLOW RATE = 0.125 gpf		FLUSH VALVE ZURN MODEL Z6003-ULF (0.125gpf) OR EQUAL. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 7/P2.0
M 1			WALL MOUNT TYPE BOBRICK MODEL B165 18X30 OR EQUAL		MOUNT AS SPECIFIED IN FLOOR PLANS. MIRROR PER SCHEDULE 7/P2.0
GB 1			WALL MOUNT TYPE CREATIVE SPECIALTIES INTERNATIONAL MODEL 8736 & 8748 (1 1/4" CONCEALED SCREW 3/8" & 4/8" OR EQUAL		18 GA. 304 STAINLESS STEEL SATIN FINISH MOUNT AS SPECIFIED IN FLOOR PLANS AND PER SCHEDULE 7/P2.0. (STRUCTURAL STRENGTH OF GRAB BARS 250# MIN.)
GB 2					
TWH 1			CHRONOMITE INSTANT-TEMP WATER HEATER MODEL M20L240 INSTANT SINGLE PHASE 104"		CHRONOMITE MODEL M20L208 OR EQUAL
FS 1			FLORESTONE FLOOR SINK MOLDED MOP RECEPTORS MODEL MSR-2424 W/ 3" DRAIN OR EQUAL		ZURN 843-MI-RC OR EQUAL
FD 2			CONCRETE FLOOR DRAIN ZURN MODEL P415-CC W/ STANDARD GRATE ZURN 33160-002 OR EQUAL		LOCATE AS SPECIFIED ON FLOOR PLANS. (FLOOR DRAIN TO BE USED ON CONCRETE ONLY.)
CS 1			JUST MODEL CRA-ADA-1928-A-GR OR EQUAL		FAUCET - ZERN MODEL Z2871-B4-XL W/WRIST BLADES. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 7/P2.0
WH 1			RHEEM 20 GALLON ELECTRIC WATER HEATER MODEL PROE20-1-RH-POU 240 VOLT SINGLE PHASE		(MAX WATER HEATER WEIGHT) PER 6/M1.4 OR 1/P.20
HB 1			RECESSED HOSE BIBB WOODFORD MODEL B7SCH OR EQUAL		LOCATE AS SPECIFIED ON FLOOR PLANS.

NOTES:  
1. ALL WATER FIXTURES MUST MEET REQUIREMENTS OF CAL-GREEN TITLE 24, PART 11, SECTION 5.303.3 "WATER CONSERVING PLUMBING FIXTURES & FITTINGS".



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SET NAME  
**(2) 72'x40' 2 STORY CLASSROOM BUILDINGS**

SITE SPECIFIC PROJECT NAME  
**GLENDALE USD GLENOAKS ELEMENTARY SCHOOL**

MANUFACTURER PROFESSIONAL OF RECORD

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS  


DRAWN BY: AH  
SCALE: AS NOTED  
DATE: 03/15/21  
PROJECT NO: 1613-20

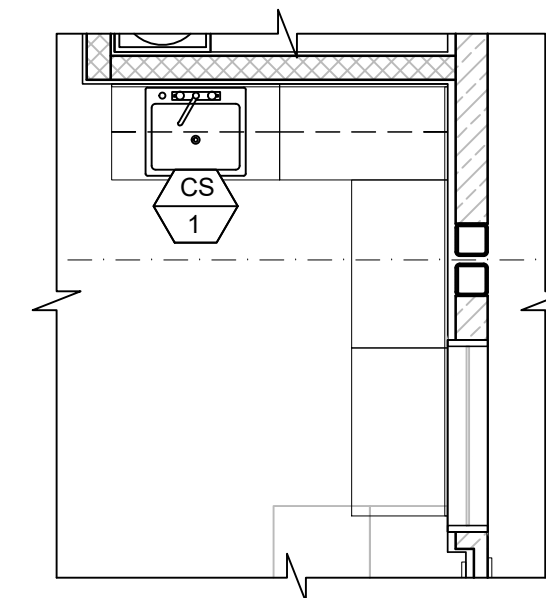
SHEET TITLE:  
**RESTROOM OPTION PLUMBING PLANS & FIXTURE SCHEDULE**

SHEET NUMBER:  
**P1.0**

BOYS, GIRLS & STAFF R.R. PLUMBING PLAN

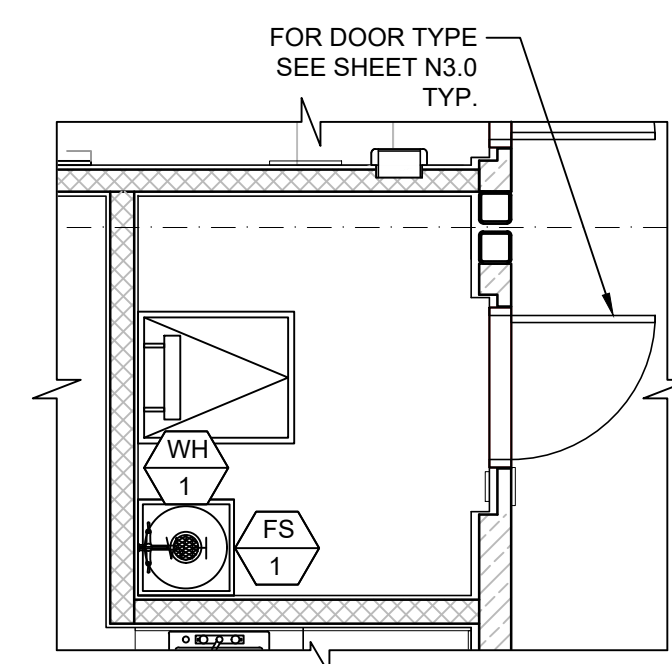
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PLUMBING FIXTURE SCHEDULE

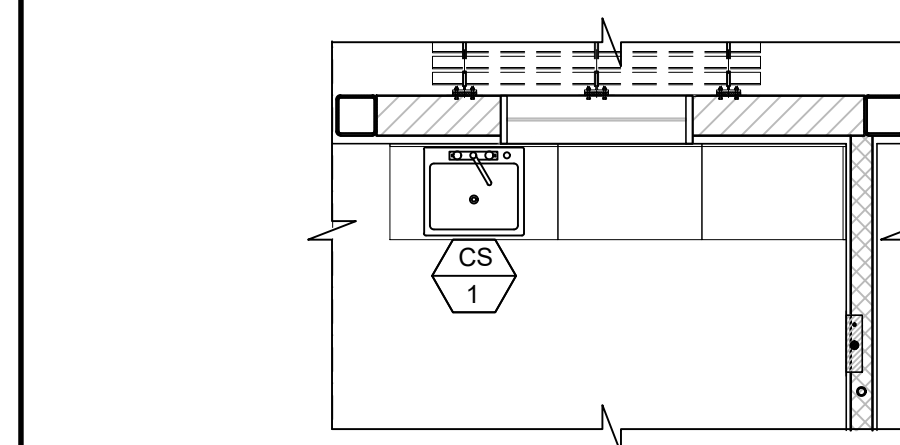


TYP. WORKROOM SINK PLAN

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

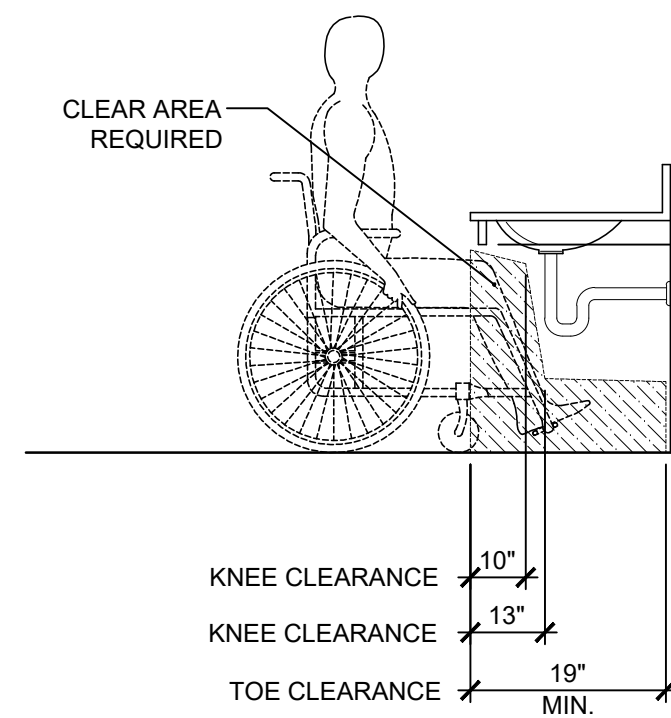


JANITORS ROOM PLAN



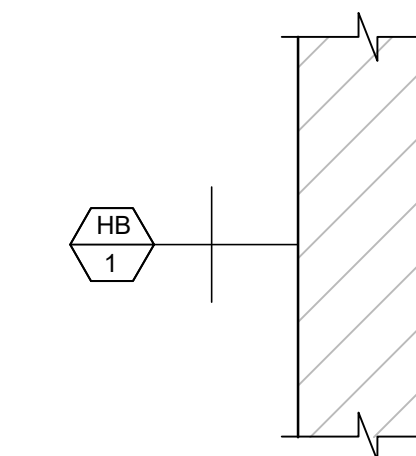
TYP. CLASSROOM SINK PLAN

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



ACCESIBLE CLASSROOM SINK

NOT TO SCALE



TYP. HOSE BIBB

SCALE: 3/4"=1'-0"

BID SET 10/01/2021



**DSA-OVERHEAD FIRE SPRINKLER SYSTEM GENERAL NOTES**

- A COPY OF THE ORIGINAL, PREVIOUSLY APPROVED DSA UNDERGROUND PIPING PLANS OR OTHER WATER SUPPLY COMPONENTS, SUCH AS WATER TANKS, FIRE PUMPS, ETC., FOR THE PROJECT SHALL BE INCLUDED IN ALL AUTOMATIC FIRE SPRINKLER DEFERRED SUBMITTAL PACKAGES. ALL DEVIATIONS FROM THE PREVIOUSLY APPROVED PLANS SHALL BE JUSTIFIED AND SUBMITTED TO DSA. THE CHANGE ORDER PROCESS AS APPLICABLE. UNDERGROUND PIPING SIZE IS NOT THE RESPONSIBILITY OF DSA, AND THE ARCHITECT OF RECORD SHALL ASSUME FULL LIABILITY FOR UNDERGROUND PIPING. SHOULD THE FINAL DESIGN OF THE FIRE SPRINKLER SYSTEM REQUIRE LARGER PIPING, ADDITIONAL WATER SUPPLY, FIRE PUMPS, OR OTHER EQUIPMENT OR ITEMS.
- 2019 NFPA-13, SEC. 16.4.1.1: THE DESIGNER SHALL INDICATE ON THE PLANS, ALL PIPING SUBJECT TO FREEZING (WHERE WATER TEMPERATURE CANNOT BE MAINTAINED ABOVE 40-DEGREES FAHRENHEIT) AND PROVIDE APPROVED PROTECTION.
- 2019 NFPA-13 SEC. 6.10.2.2.1: UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO THE OVERHEAD SPRINKLER PIPING. WHERE UNDERGROUND PIPING IS FLUSHED AND NOT IMMEDIATELY CONNECTED TO THE OVERHEAD PIPING, THE RISER SHALL BE CAPPED OR OTHERWISE PROTECTED TO PREVENT DEBRIS, DIRT, OR ANIMALS FROM ENTERING INTO THE UNDERGROUND PIPING. (THIS MUST BE WITNESSED BY THE PROJECT INSPECTOR.)
- PROVIDE (WET SIGNED) WATER FLOW TEST INFORMATION NO MORE THAN 12 MONTHS OLD, AND INDICATE THE LOCATIONS AND HEIGHT ELEVATION(S) OF THE TEST RESIDUAL FLOW HYDRANTS. WATER FLOW TEST INFORMATION MUST BE PROVIDED BY, OR WITNESSED BY, THE LOCAL WATER PAVOR, UTILITY COMPANY OR LOCAL FIRE DEPARTMENT. (2016 CFC, 508.4)
- ARCHITECT OF RECORD (AOR), MECHANICAL ENGINEER (ME) AND FIRE PROTECTION CONTRACTOR (C-16) SHALL AFFIX THEIR SEAL, STAMP AND SIGN ALL SUBMITTALS, OR PROVIDE DOCUMENTATION PER DSA R-18.
- 2019 NFPA-13 SEC. 16.2.7.5 AND SEC. 16.2.7.6: PROVIDE A SPARE SPRINKLER HEAD CABINET, SPRINKLER WRENCH, AND NO FEWER THAN TWO (2) SPRINKLER HEADS MATCHING THE TYPES AND TEMPERATURE RATING IN EACH PROTECTED AREA FOR SYSTEMS LESS THAN 300 SPRINKLERS (12 SPARE SPRINKLER HEADS FOR SYSTEMS OF 300 TO 1,000 SPRINKLERS.)
- 2019 NFPA-13 SEC. 16.12.5.8.1: SIGNAGE SHALL BE PROVIDED AS REQUIRED.
- 2019 NFPA-13 SEC. 18.6.3.3: THE END (LAST) SPRINKLER ON EACH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT.
- 2019 NFPA-13 FIGURE 6.10.1: A COPY OF THE COMPLETED AND SIGNED "CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR UNDERGROUND PIPING" SHALL BE INCLUDED WITH THE SUBMITTAL.
- 2019 NFPA-13 SEC. 6.10.2.2.1: ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200-PSI, OR 50-PSI IN EXCESS OF SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. (TEST TO BE WITNESSED BY PROJECT INSPECTOR.)
- 2019 NFPA-13 SEC. 28.5.1: A PERMANENT HYDRAULIC CALCULATION DESIGN INFORMATION PLACARD SHALL BE ATTACHED TO EACH RISER.
- 2019 NFPA-13 SEC. 28.2.3.1: THE SPRINKLER FLOW SWITCH SHALL BE TESTED TO CONFIRM THAT WHEN THE INSPECTOR'S TEST VALVE IS OPENED, AN ALARM WILL SOUND NO MORE THAN 90-SECONDS AFTER THE INITIAL FLOW. (TEST TO BE WITNESSED BY THE PROJECT INSPECTOR.)
- 2019 CBC, SEC. 903.4.1: THE MAIN FIRE ALARM PANEL VALVE MONITORING, WATER-FLOW AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT, AND SHALL AUTOMATICALLY BE TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.
- 2019 NFPA-13 SEC. 16.17: AND 2016 CBC, 903.4.2: THE FLOW SWITCH SHALL BE CONNECTED TO AN APPROVED EXTERIOR ALARM BELL OR OTHER AUDIBLE ALARM DEVICE (SIZE NOT MANDATED BY CODE) AT EACH RISER. APPROVED IDENTIFICATION SIGNS STATING "SPRINKLER FIRE ALARM-WHEN ALARM SOUNDS CALL 911/FIRE DEPARTMENT" SHALL BE INSTALLED ON THE EXTERIOR ALARM BELL.
- 2016 CBC, SEC. 904.4.3: CONNECTIONS TO PROTECTED PREMISES AND SUPERVISING STATION FIRE ALARM SYSTEMS SHALL BE TESTED TO VERIFY PROPER IDENTIFICATION AND TRANSMISSION OF ALARM SIGNALS FROM AUTOMATIC FIRE EXTINGUISHING SYSTEMS. (TEST TO BE WITNESSED BY PROJECT INSPECTOR.)
- 2016 CBC, 903.4.2 AND 2019 NFPA-13 SEC. 16.14.2.1 THRU SEC. 8.17.4.2.4: THE INSPECTOR'S TEST VALVE LOCATION SHALL BE INSTALLED DOWNSTREAM OF THE ALARM DEVICE (WATERFLOW SWITCH). THE PIPE SIZE SHALL BE NO LESS THAN 1-INCH, WITH A SMOOTH BORE, CORROSION RESISTANT DRIFTE, PROVIDING EQUIVALENT FLOW OF THE SMALLEST ORIFICE OF THE SPRINKLER TYPES INSTALLED ON THE SYSTEM. THE DISCHARGE SHALL BE TO THE EXTERIOR OF THE BUILDING.
- CCR TITLE-19 (PUBLIC SAFETY), ARTICLE 906 (A): A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION (FDC) OR ON THE RISER FOR THE FIRE SPRINKLER SYSTEM, INDICATING THE DATE OF THE INSTALLATION AND/OR THE DATE SERVICE WAS PERFORMED, AND THE LICENSE NUMBER OF THE PERSON PERFORMING THE SERVICE WORK.

**GENERAL NOTES**

- THIS PLAN DETAILS THE FIRE SPRINKLER SYSTEM FOR:  
GLENDALES E.S. 2-STORY  
2015 EAST GLENDALES BLVD  
GLENDALE, CA
- BUILDING CONSTRUCTION TYPE: VB
- BUILDING OCCUPANCY: E
- BUILDING AREA: (2 FLOORS) 72' X 40' = 5,760 sq. ft.  
(2 FLOORS) 72' X 40' = 5,760 sq. ft.  
CORRIDOR 2,304 sq. ft.
- ALL DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13--2019 EDITION.
- SYSTEM IS DESIGNED FOR LIGHT HAZARD OCCUPANCY @0.10 GPM/SQ.FT. OVER THE HYDRAULICALLY MOST REMOTE AREA + 100 GPM OUTSIDE HOSE STREAM ALLOWANCE. (AREA REDUCED PER NFPA-13, WITH USE OF QUICK RESPONSE HEADS.) BELOW CEILING SPRINKLERS ARE @ MAXIMUM 225 SQ.FT. SPACING. ATTIC SPRINKLERS ARE AT MAX. 168 SQ.FT. SPACING.
- MAIN FITTING NOTES:  
A. ALL SPRINKLER MAIN PIPING 2"-4" TO BE SCH.10 PER NFPA-13  
B. ALL MAIN OUTLETS TO BE UL LISTED (GROOVED AND OR FEMALE THREADED FOR MECH. TEES)  
C. WELDING TO BE PERFORMED I.A.W. NFPA-13, IF REQUIRED.  
D. ALL MAIN FITTINGS TO BE ROLL-GROOVED.  
E. ALL MAIN COUPLINGS TO BE ROLL-GROOVED, NON-FLEXIBLE, UNO.
- BRANCH LINE FITTING NOTES:  
A. BRANCH LINE PIPING (THREADED) 1"-2" TO BE THREADED SCH-30 OR 40 PER NFPA-13, WITH STANDARD WEIGHT (125 LB.) SCREWED CAST OR DUCTILE IRON FITTINGS.  
B. CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS AND FLOORS. HOLES SHALL BE 2" LARGER THAN THE DIAMETER FOR 1" TO 3" AND 4" LARGER THAN THE DIAMETER FOR PIPES 4" AND LARGER.  
C. ALL FIRE SPRINKLER SYSTEM EQUIPMENT TO BE UNDERWRITER LABORATORY (UL) LISTED AND CONSISTENT WITH NFPA-13.  
D. ALL PIPE HANGERS TO BE IN ACCORDANCE WITH NFPA-13 AND DWG.-DETAILS.  
E. ALL SWAY (EARTHQUAKE) BRACING SIZE, LOCATION, SPACING, AND CONNECTIONS TO BE IN ACCORDANCE WITH NFPA-13, SEE DETAIL AND ZONE OF INFLUENCE CALCULATIONS FOR INFORMATION ON SPACING, BRACE TYPE, AND ATTACHMENT METHOD.  
F. ALL ARM-OVERS TO BE 1" X 0-4" UNLESS NOTED OTHERWISE.  
G. ON THE END HANGER, ATR SHALL BE TIGHTENED DOWN AGAINST THE TOP OF PIPE TO PREVENT MOVEMENT.  
H. SPRINKLERS SHOWN IN ACOUSTICAL CEILING TILES ARE NOT NECESSARILY IN CENTER TILE.  
I. ALL ELECTRICAL WIRING AND MONITORING OF ALARMS AND/OR SUPERVISORY SWITCHES ASSOCIATED WITH THE FIRE SPRINKLER SYSTEM TO BE PERFORMED BY OTHERS, PRIOR TO FINAL INSPECTION.  
J. UPON COMPLETION OF THE INSTALLATION A 200 PSI HYDRO TEST FOR 2-HRS WILL BE PROVIDED FOR INSPECTION.  
K. UNDERGROUND PIPING SHALL BE FLUSHED PER NFPA-13, PRIOR TO CONNECTION TO SPRINKLER SYSTEMS.  
L. D & B FIRE EXTENT OF WORK TO BE AT BASE OF RISER--(SEE RISER DETAIL)  
M. A SPARE HEAD BOX WITH HEADS AND WRENCH SHALL BE PROVIDED AT EACH RISER.  
N. UPON COMPLETION, THE FOLLOWING SHALL BE PROVIDED TO OWNER: COMPLETED CONTRACTORS MATERIAL & TEST CERTIFICATE; COPY OF NFPA-25.  
O. DEVIATIONS FROM APPROVED PLANS SHALL REQUIRE PERMISSION OF THE AUTHORITY HAVING JURISDICTION (NFPA-13-2019 EDITION, SECTION 27.1.2)

**SEE SHEET FS-2 FOR ZONE OF INFLUENCE OUTLINE**

PIPE SCH.	PIPE SIZE, LENGTH, QUANTITY LBS./FT.	WEIGHT OF WATER FILLED PIPE	COMBINED WEIGHT OF ALL PIPE IN ZONE (Wp)	Cp VALUE	ADJUSTED ASSIGNED LOAD
10	2 1/2" (5.89) X 48'	283 LBS.	283 LBS.	(1.03)	291 LBS.
PERCENTAGE(15) FOR FITTINGS AND DEVICES:					44 LBS.
TOTAL LOAD:					335 LBS. (Fp)

(S <sub>B</sub> ) VALUE	EARTHQUAKE BRACE CALCULATIONS ZONE OF INFLUENCE CALCULATIONS (PER 2019 NFPA 13-TABLE 18.5.9.3)	LATERAL BRACE
2.149		

PIPE SCH.	PIPE SIZE, LENGTH, QUANTITY LBS./FT.	WEIGHT OF WATER FILLED PIPE	COMBINED WEIGHT OF ALL PIPE IN ZONE (Wp)	Cp VALUE	ADJUSTED ASSIGNED LOAD
10	2 1/2" (5.89) X 24'	141 LBS.	141 LBS.	(1.03)	145 LBS.
40	1 1/2" (2.93) X 19'	56 LBS.	480 LBS.	(1.03)	494 LBS.
40	1" (2.05) X 138'	283 LBS.	480 LBS.	(1.03)	494 LBS.
PERCENTAGE(15) FOR FITTINGS AND DEVICES:					74 LBS.
TOTAL LOAD:					568 LBS. (Fp)

EARTHQUAKE BRACE CALCULATIONS			
ASSIGNED LOAD: ADJUSTED (SEE ZONE OF INFLUENCE CALCULATIONS ABOVE)			
SPRINKLER MAIN SIZE	MAX. BRACE SPACING	ADJUSTED ASSIGNED LOAD	
2"	24' LAT. - 48' LONG.	568 LBS. (Fp)	

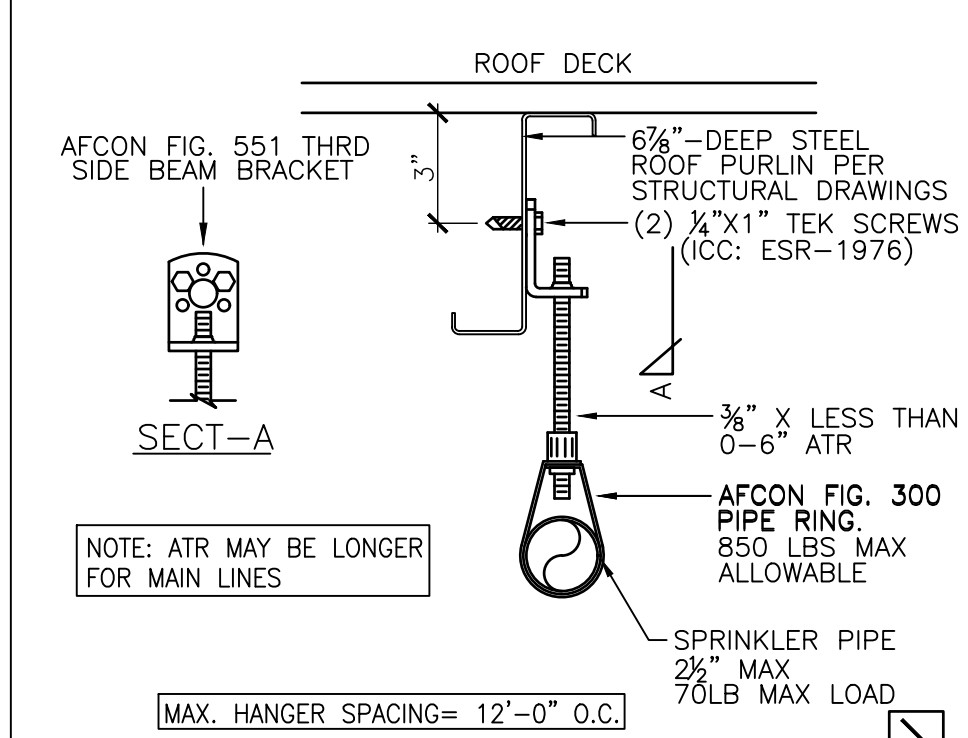
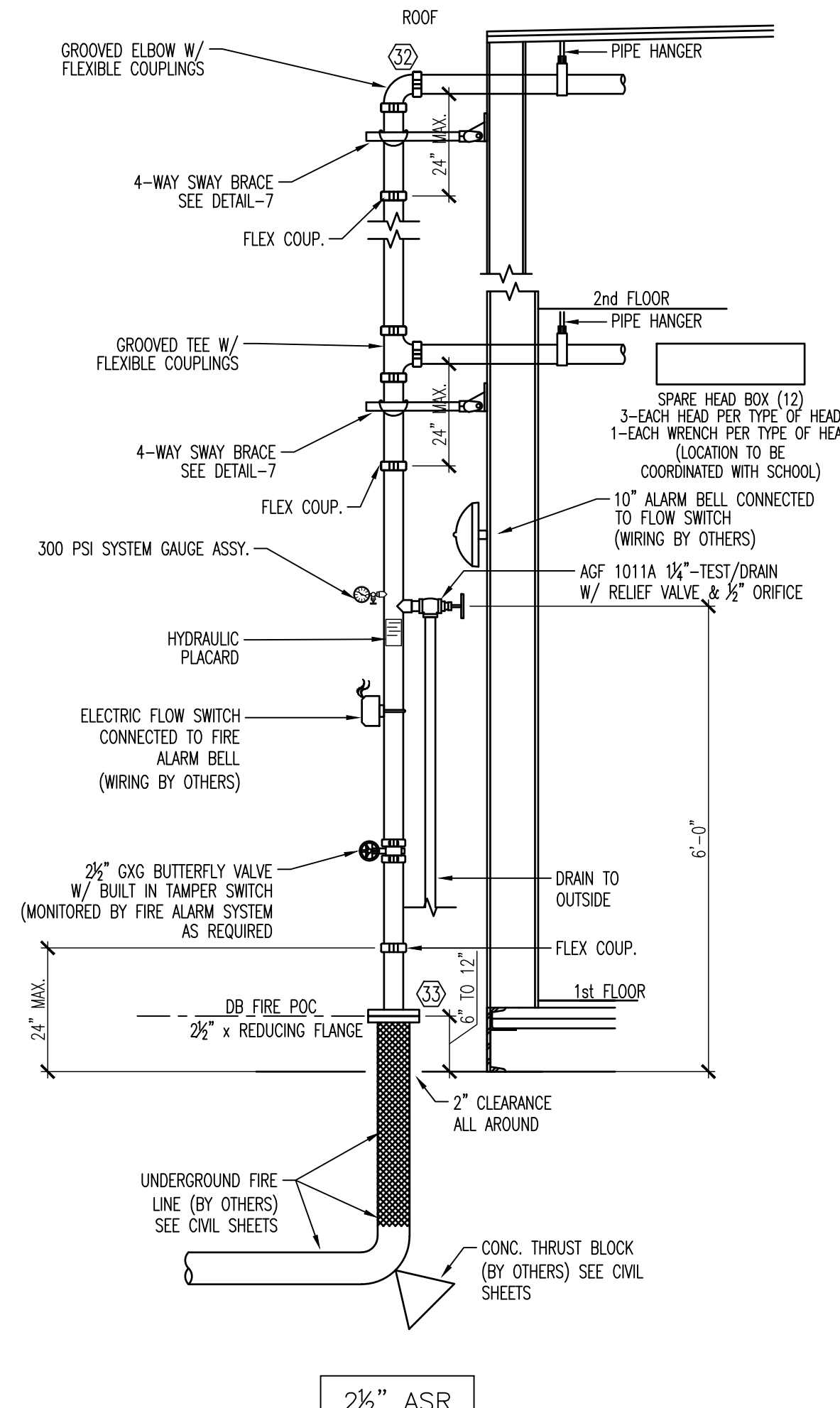
BRACE SPACING: TABLE 18.5.11.8(B)			
BRACE PIPE SIZE	MAX LENGTH	MAX BRACE ANGLE	MAX HORIZ. LOAD
1"	7'-0"	59° FROM VERT.	1310 LBS.

FASTENER SIZE: TABLE 18.5.12.1 - PER STEEL CONN. & ANGLE OF BRACE			
FASTENER SIZE/TYPE	BRACE ANGLE (DIAGRAM)	MAX ASSIGNED LOAD	
1/2" X 1 1/2" HEX BOLT	45°-59° FROM VERT.(FIG.E)(STEEL CONN.)	2050 LBS.	

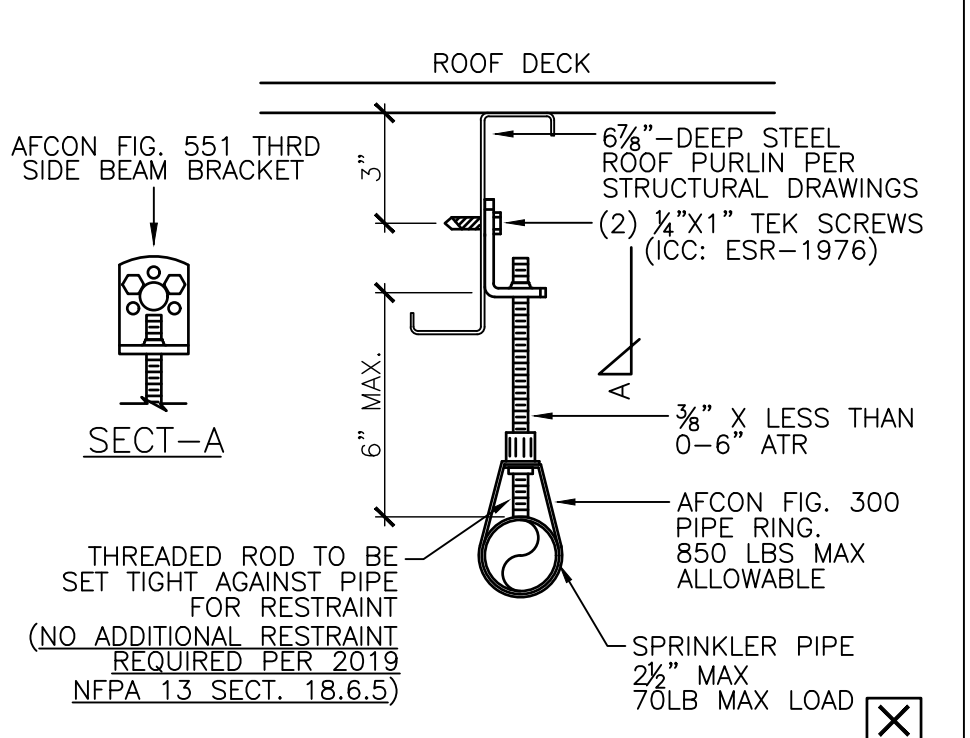
SEISMIC BRACE ATTACHMENT STRUCTURAL ATTACHMENT FITTING BRACING SYSTEM			
MAKE: AFCON	MODEL: 077		
LISTED LOAD RATING: 2015	ADJUSTED LOAD RATING PER 18.5.11.8: 1612 (.8)		
SWAY BRACE (PIPE ATTACHMENT) FITTING:			
MAKE: AFCON	MODEL: 001/020		
LISTED LOAD RATING: 800	ADJUSTED LOAD RATING PER 18.5.11.8: 640 (.8)		

**HANGER/RESTRAINT NOTE**

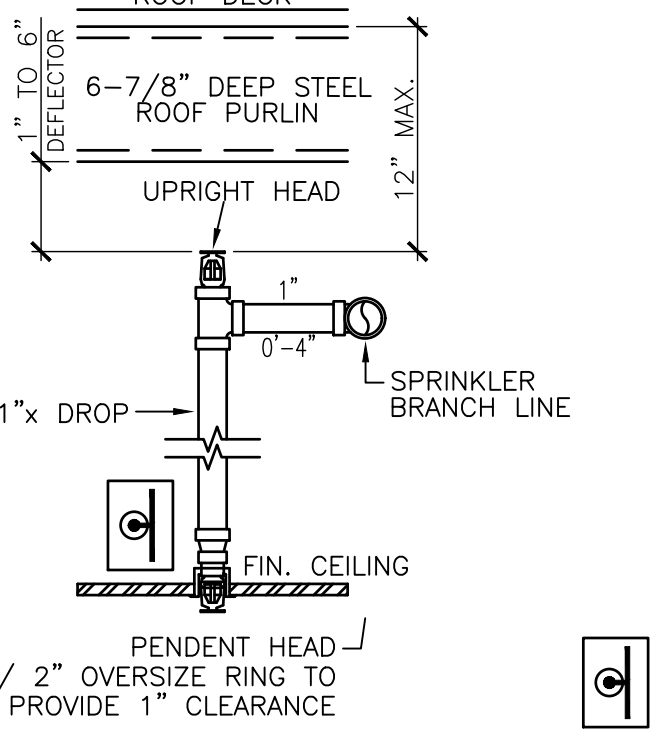
- \*\* LATERAL BRACING IS NOT REQUIRED ON PIPES INDIVIDUALLY SUPPORTED BY RODS LESS THAN 6" LONG, PER 2019 NFPA-13, SECT-18.6.5
- \*\* THE END OF LINE RESTRAINT DETAIL #2 ON THIS PLAN WILL RESTRAIN END SPRINKLER AGAINST EXCESSIVE VERTICAL MOVEMENT, AND LATERAL MOVEMENT IS LIMITED BY THE SHORT RODS (6" OR LESS) WHICH MEET THE ABOVE EXCEPTION FOR LATERAL BRACING. NO ADDITIONAL BRACING OR SPLAY WIRE IS REQUIRED ON BRANCH LINES.



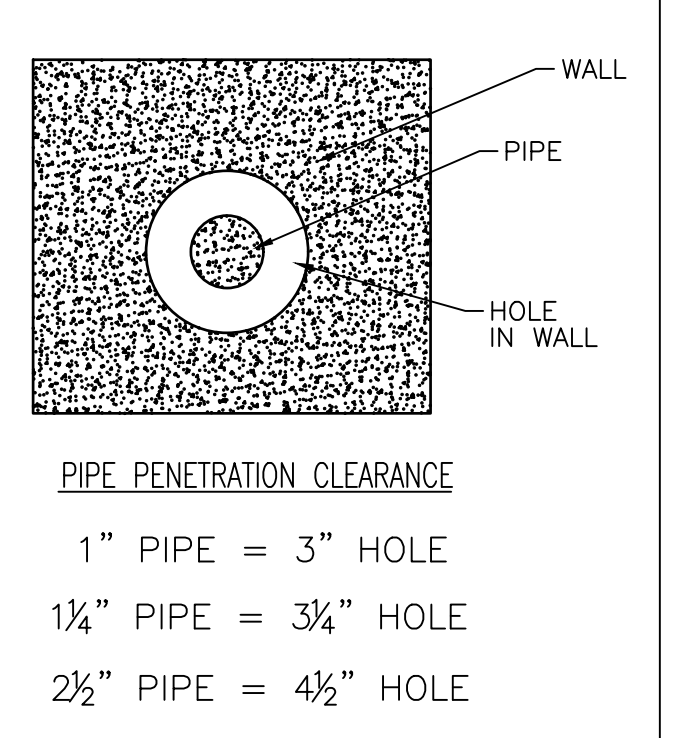
TYPICAL MAIN/BRANCH LINE HANGER DETAIL-1



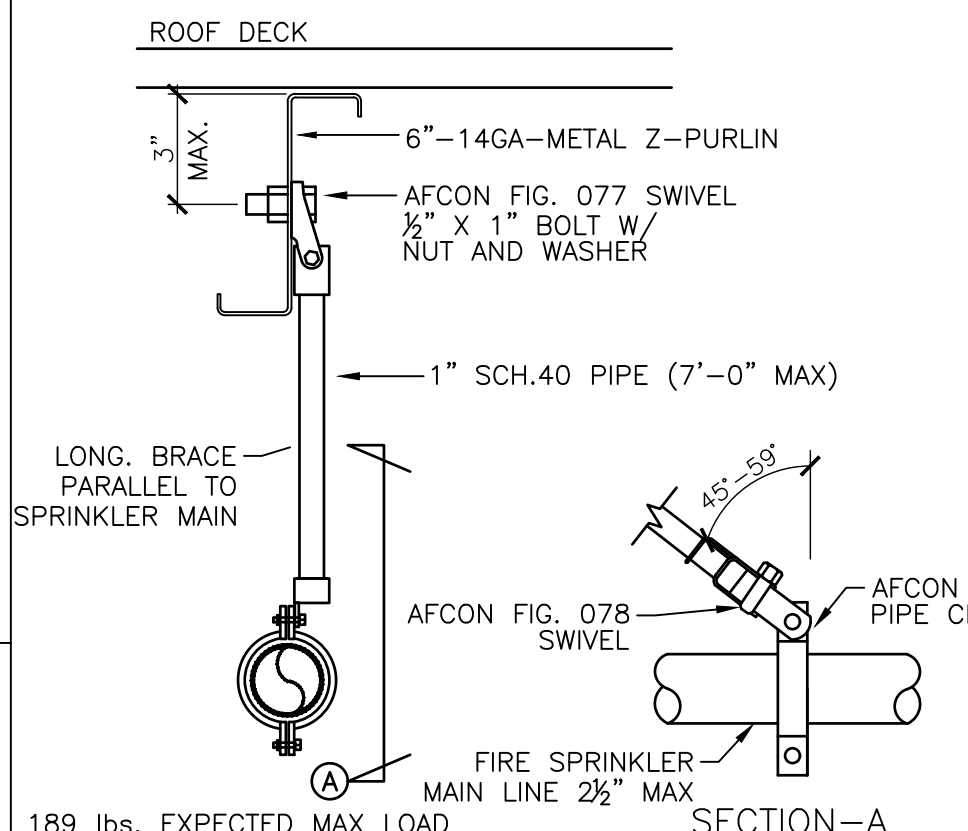
END OF LINE HANGER/RESTRAINT DETAIL-2



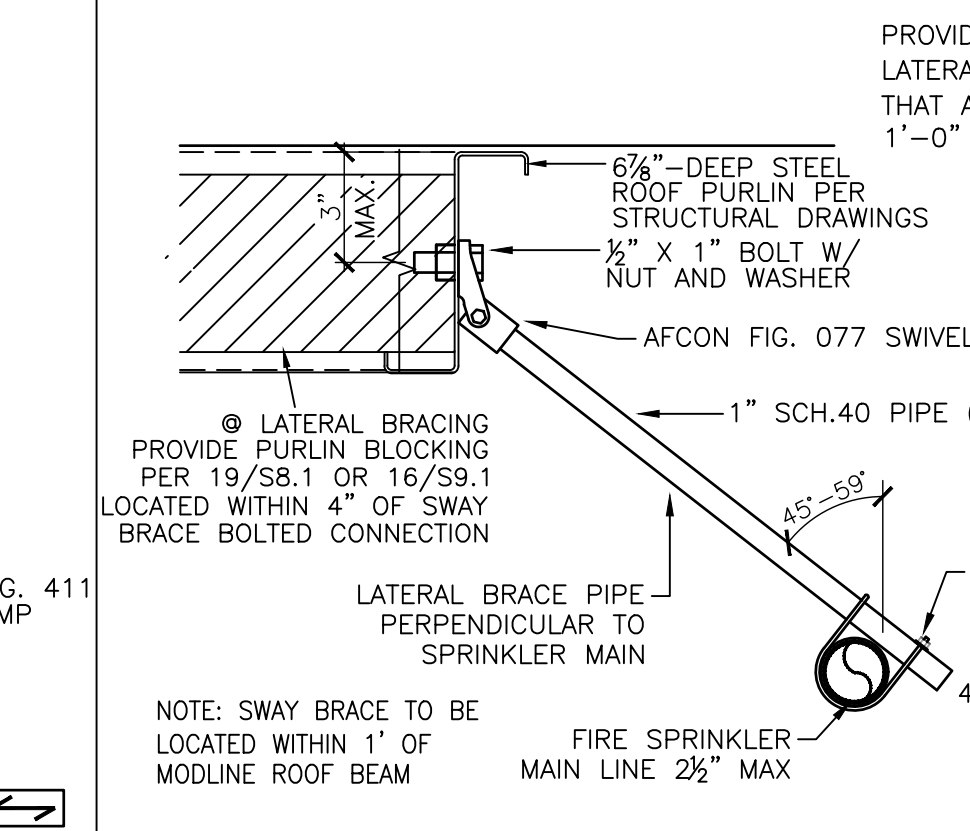
UP & DOWN HEADS DETAIL-3



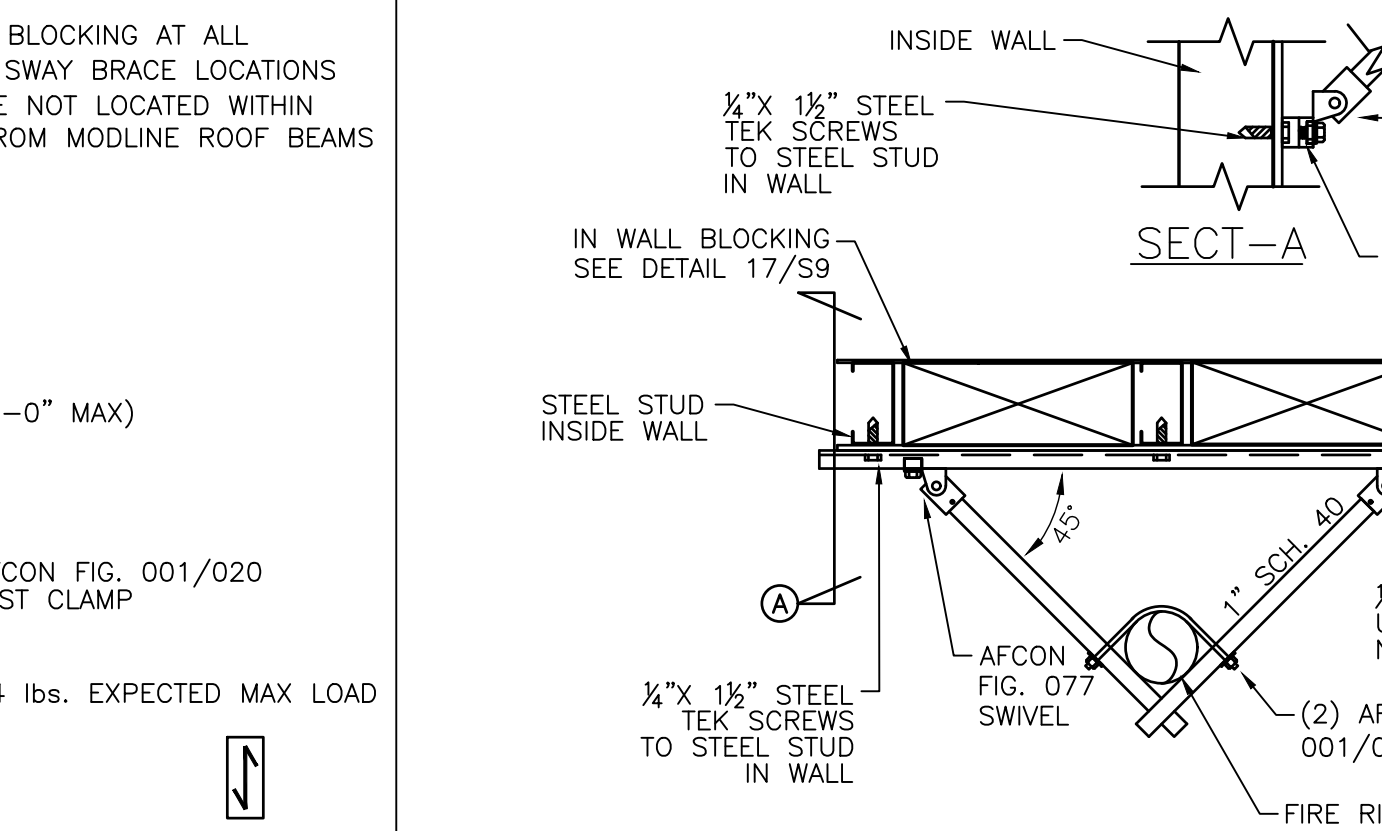
WALL PENETRATION DETAIL-4



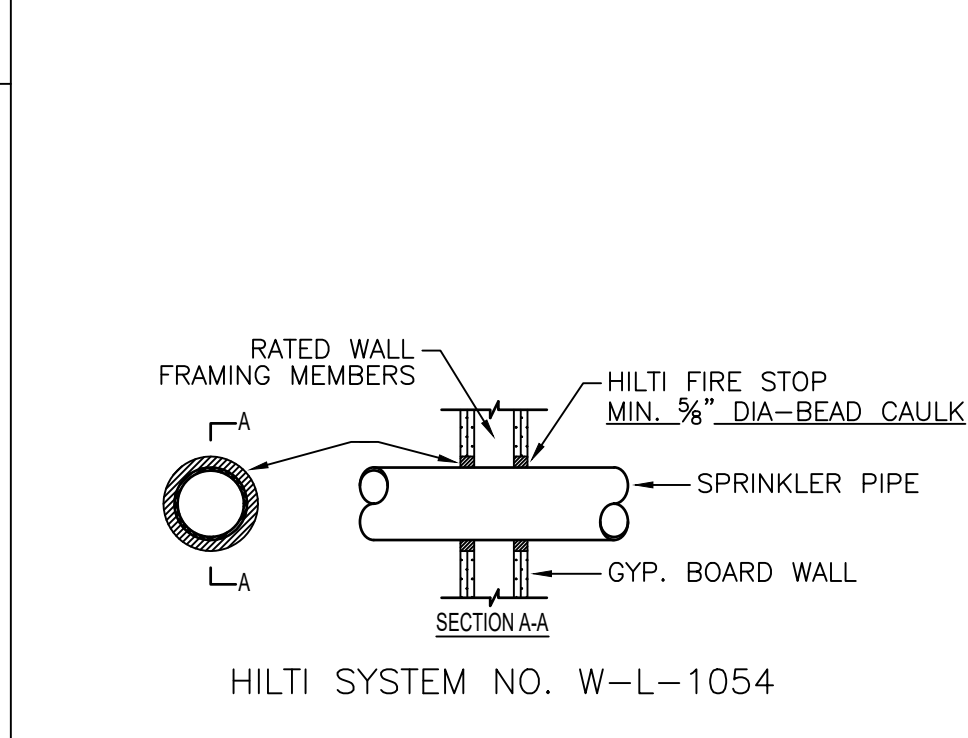
LONGITUDINAL SWAY BRACE DETAIL-5



LATERAL SWAY BRACE DETAIL-6

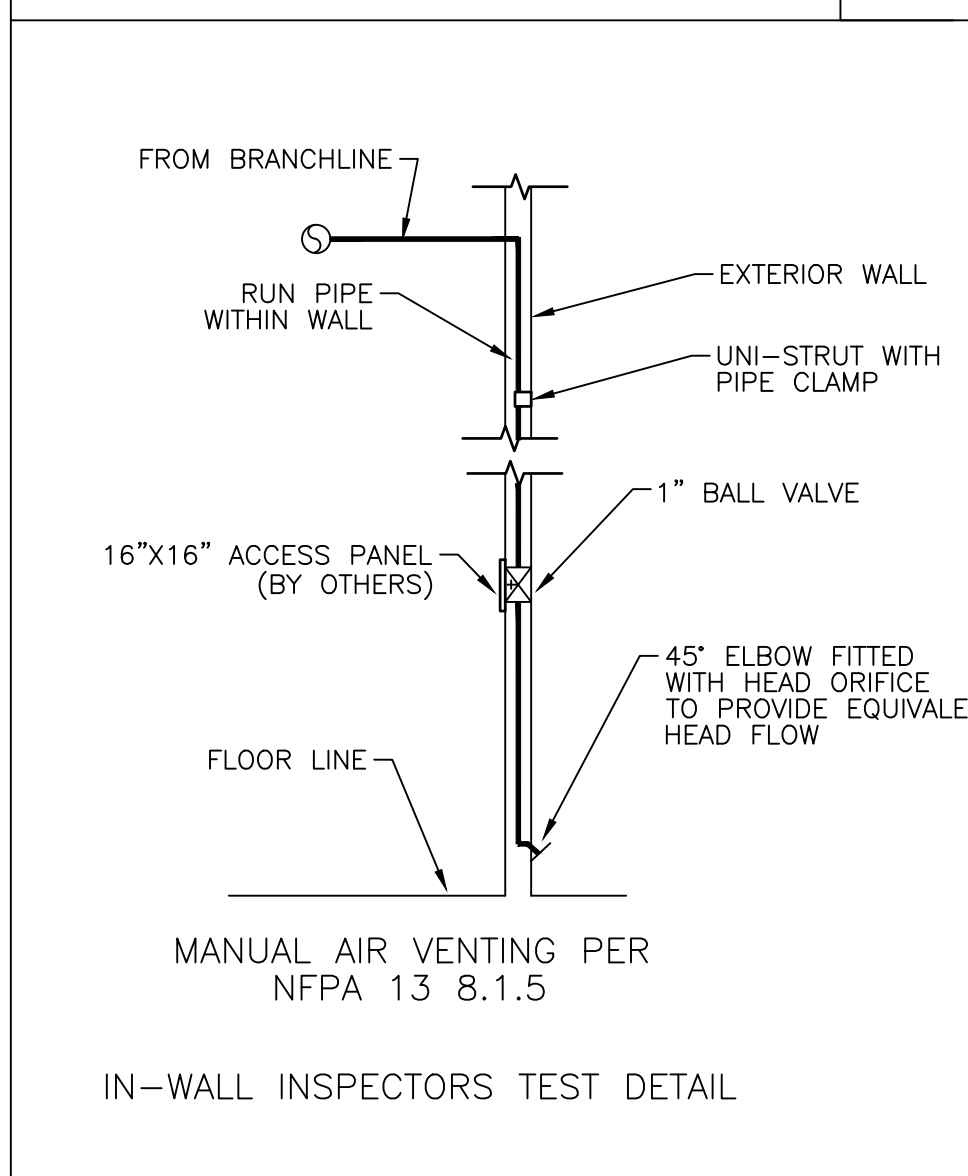


4-WAY SWAY BRACE DETAIL-7

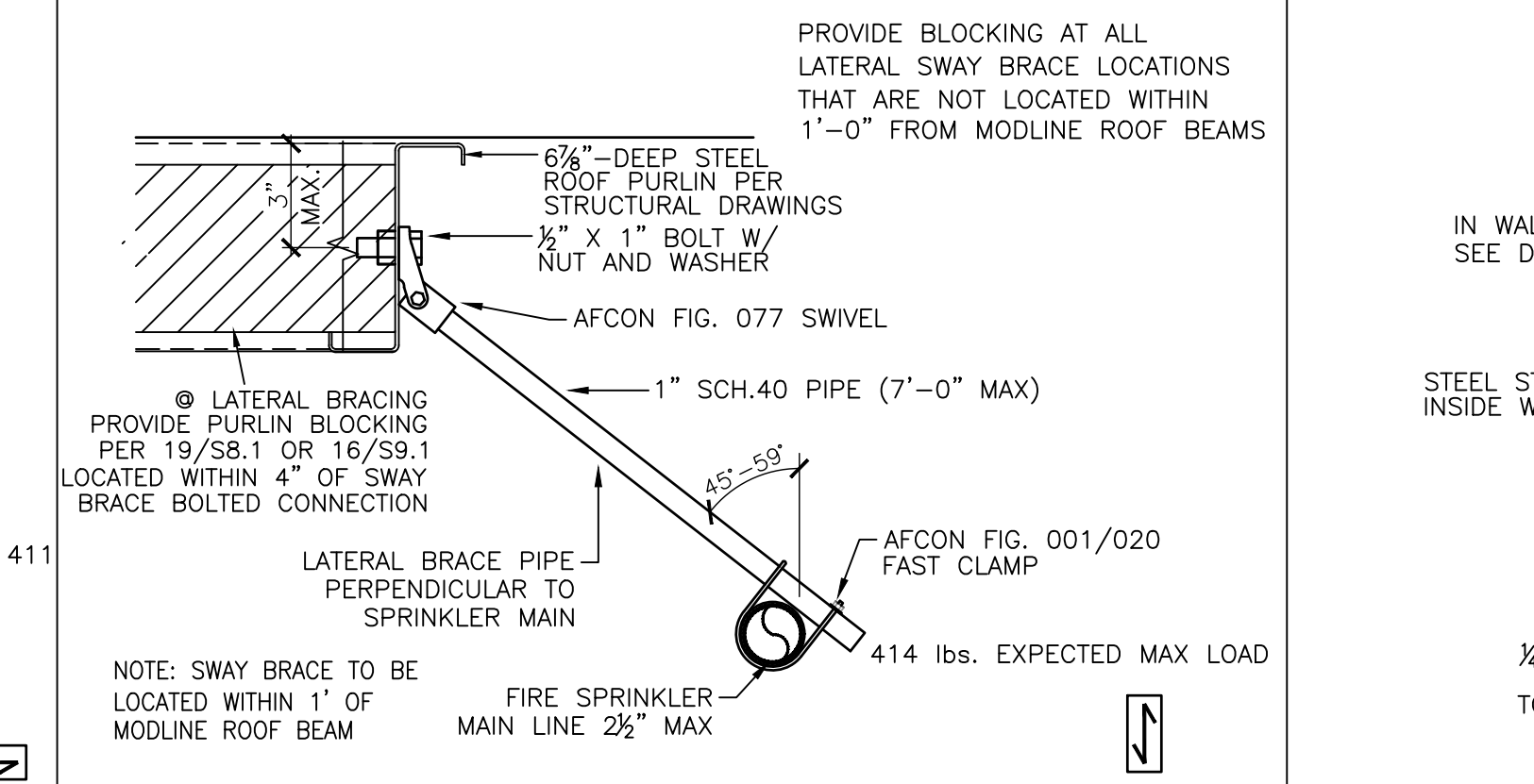


HILTI SYSTEM NO. W-L-1054 SEE DETAIL #4 THIS SHEET FOR HOLE SIZES

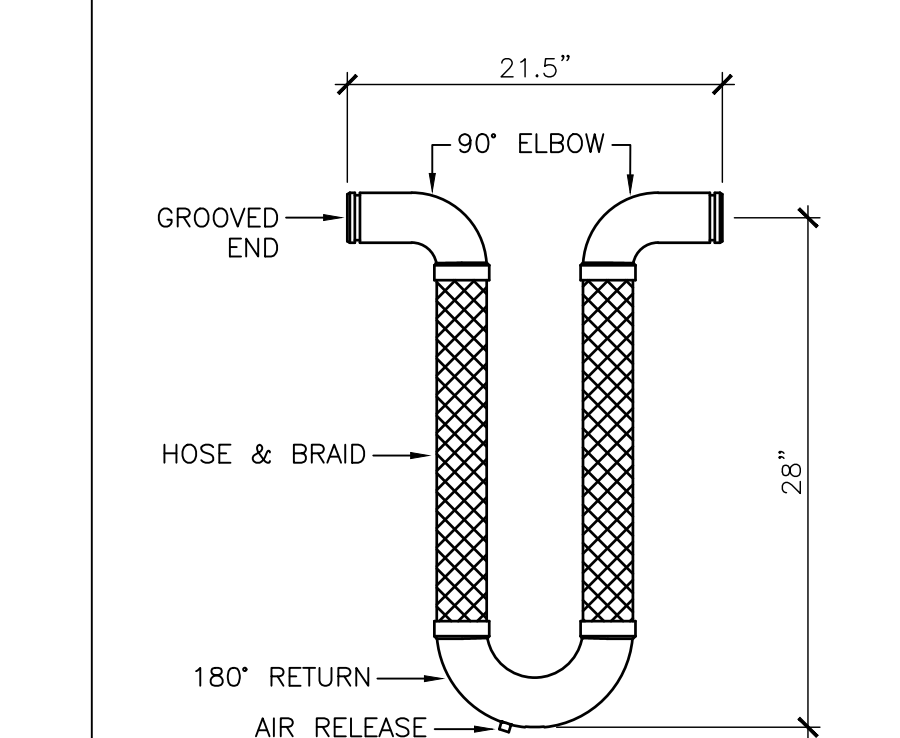
HILTI SYSTEM NO. W-L-1054 DETAIL-9



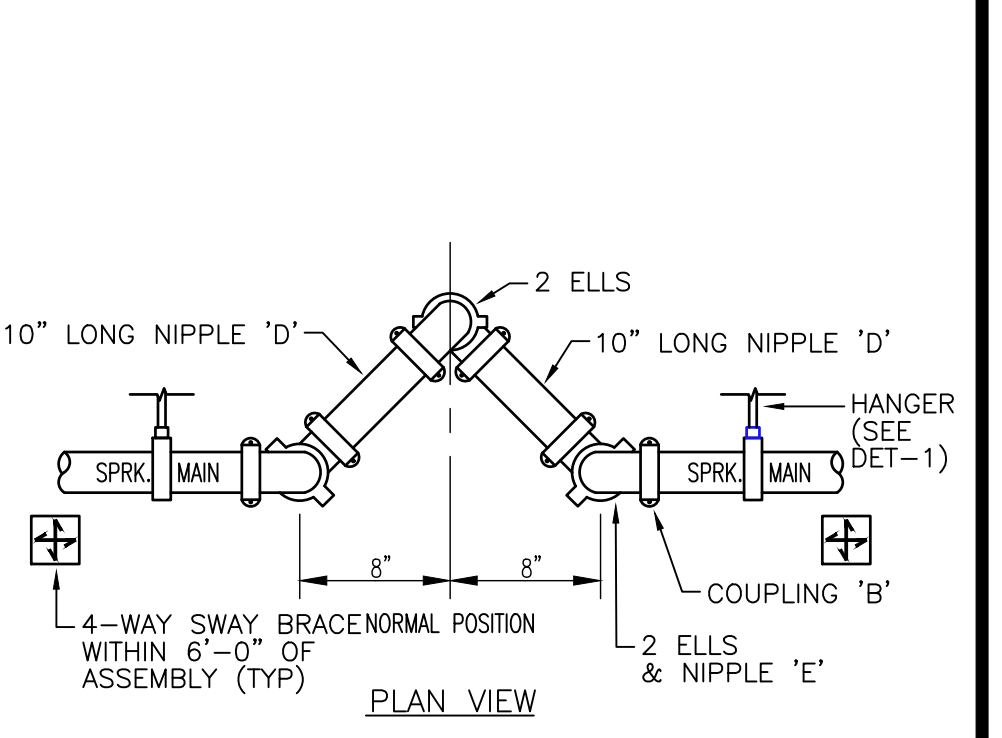
IN-WALL INSPECTORS TEST DETAIL DETAIL-11



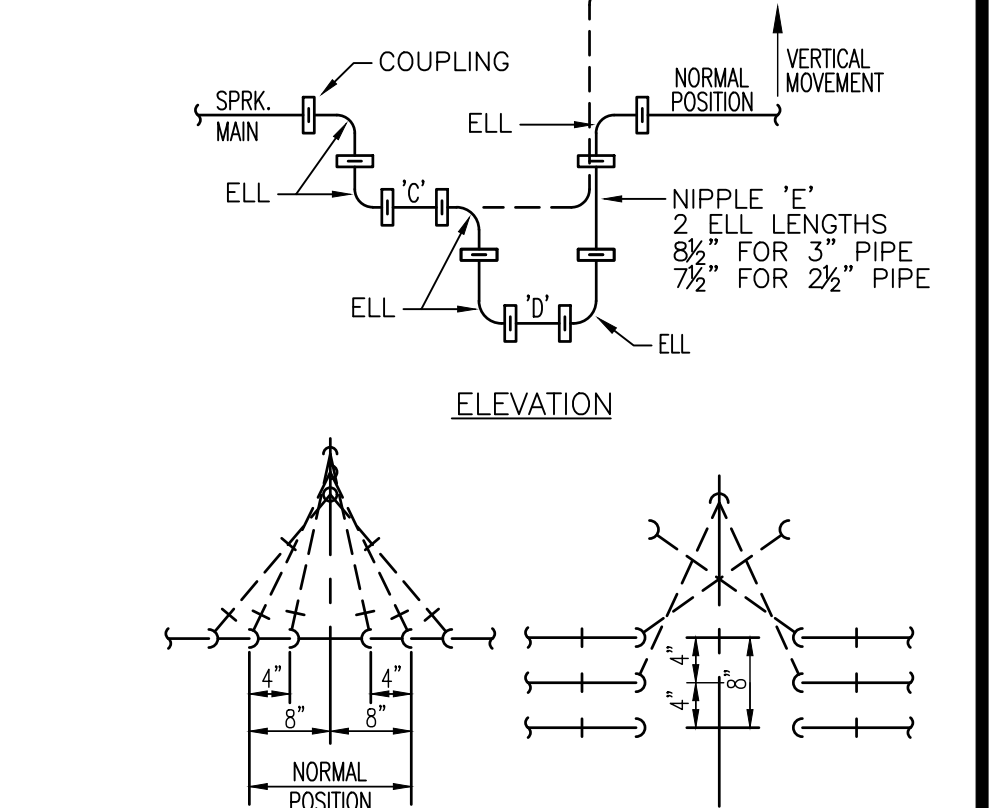
BUILDING CROSS SECTION - A SCALE: 3/16" = 1'-0"



SEISMIC CONNECTION (ALT.) DETAIL-8B



PLAN VIEW



ELEVATION LONGITUDINAL VIEW HORIZONTAL VIEW

SEISMIC CONNECTION DETAIL-8

TABLE 10.2.4.2.1(a) Sprinkler Head Protection area & spacing for Light Hazard

CONSTRUCTION TYPE:	SYSTEM TYPE:	MAXIMUM PROTECTION AREA	MAXIMUM SPACING
NON-COMBUSTIBLE UNOBSTRUCTED	HYDRO CALCD	225sq.ft.	15 ft.
COMBUSTIBLE UNOBSTRUCTED	HYDRO CALCD	225sq.ft.	15 ft.

WATER FLOW INFO.	
STATIC:	125 PSI
RESIDUAL:	110 PSI
FLOW:	1,680 GPM
INFORMATION FROM: SOUTH PASADENA WATER DEPT DATED: 7-8-2020	

HYDRAULIC CALC. REFERENCE POINT	
	4-WAY SWAY BRACE
	LONG./LAT. SWAY BRACE
	FIRE RISER
	TYP. HANGER
	END OF LINE HANGER/RESTRAINT

HANGER LEGEND	
	NEW UNDERGROUND PIPING
	EXISTING UNDERGROUND PIPING
	POST INDICATOR VALVE (PIV)
	KEY VALVE
	FIRE DEPARTMENT CONNECTION (FDC)
	FIRE HYDRANT

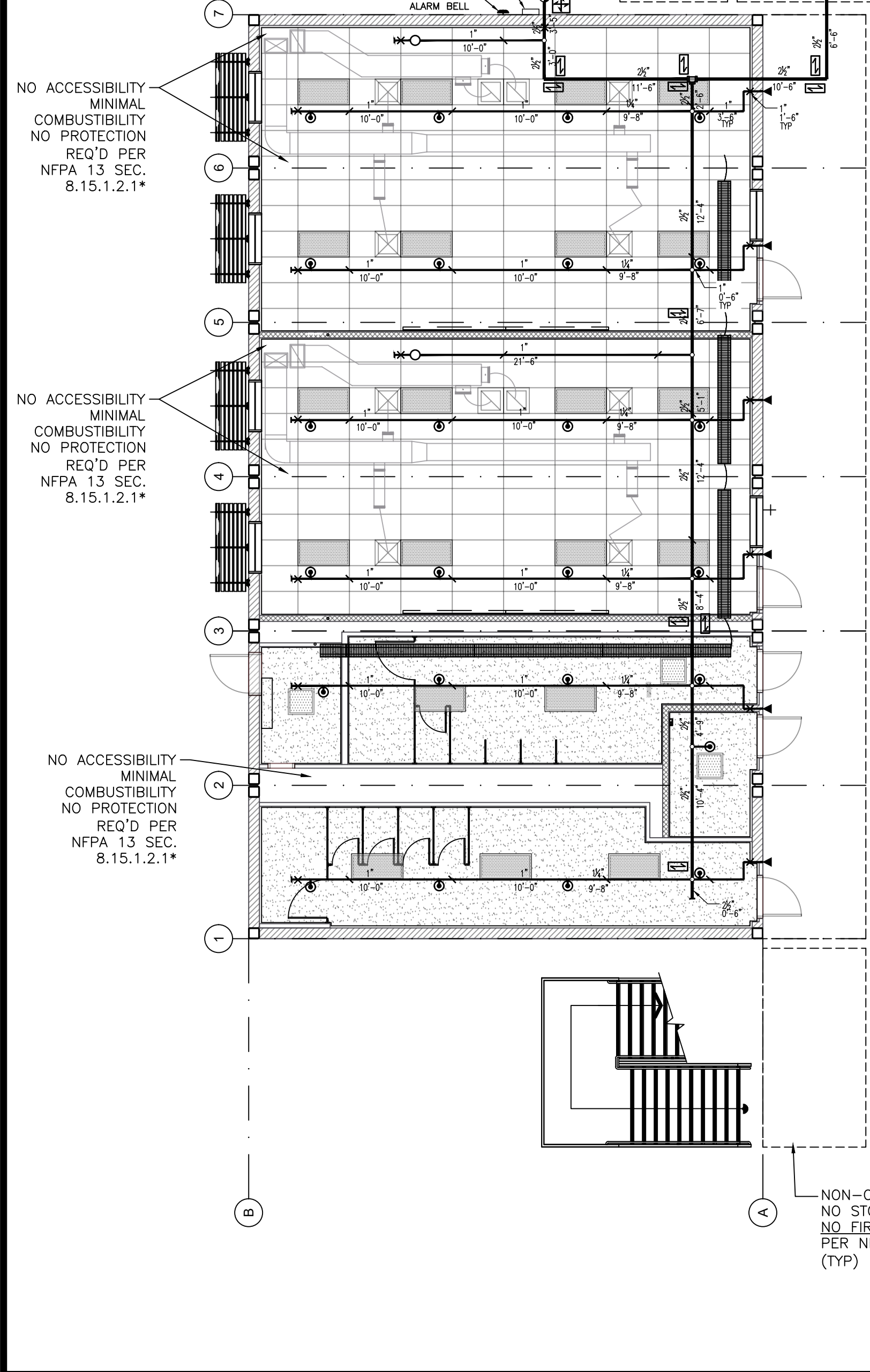
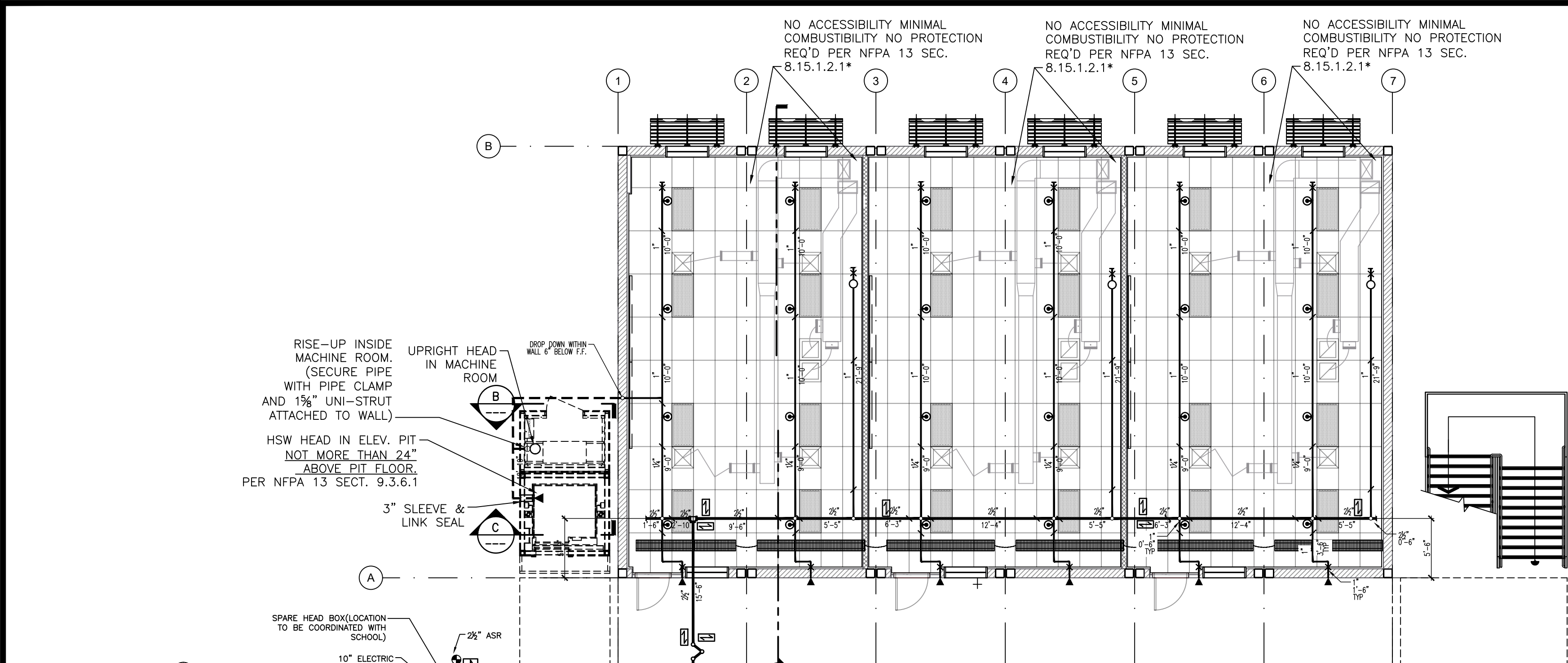
AUTHORITY HAVING JURISDICTION		
DATE:	BY:	REVISIONS:

SEAL OF THE PROFESSIONAL ENGINEER	
Class C-16 License #41024 Expires 8-2021	STATE OF CALIFORNIA



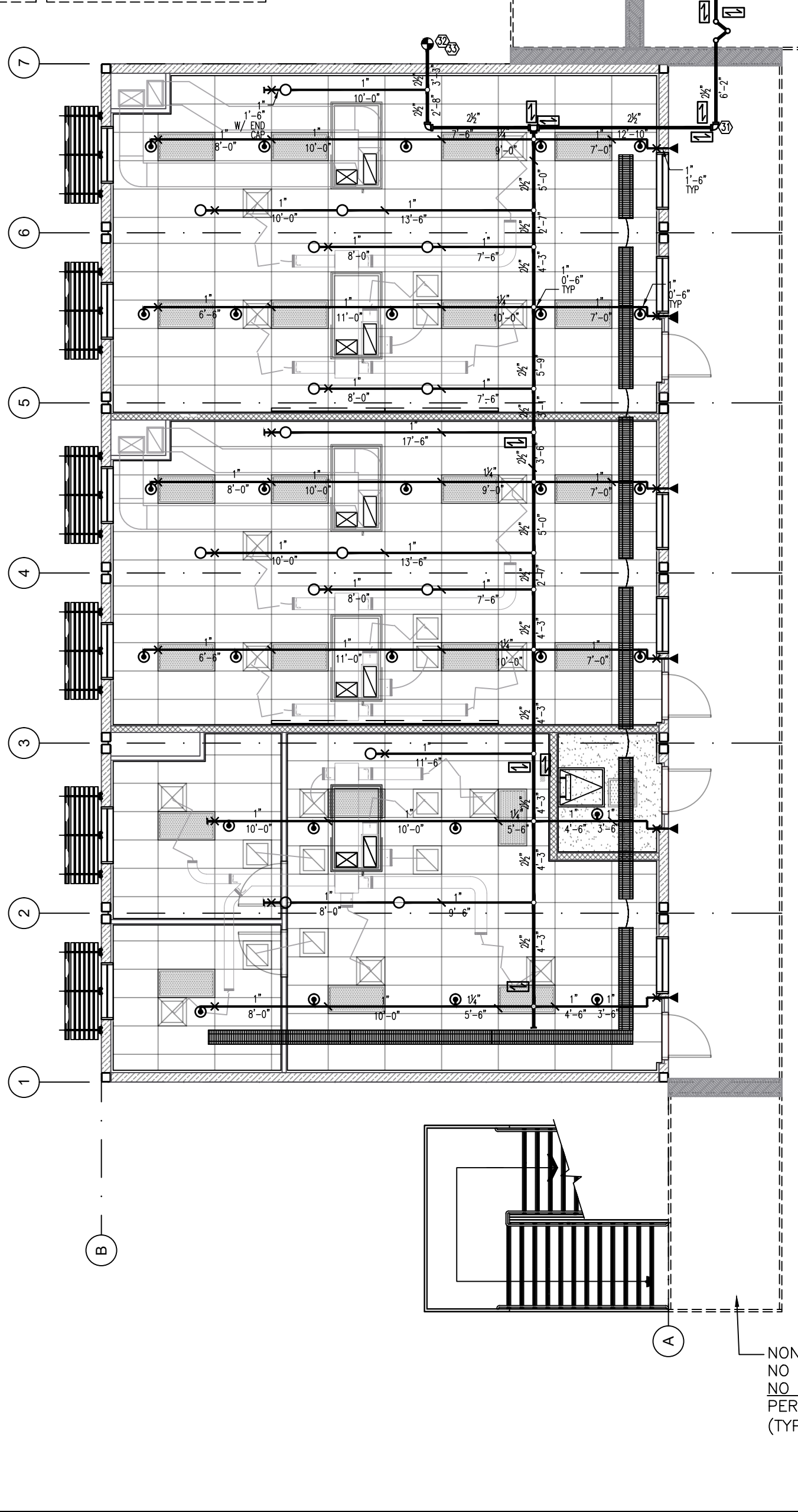
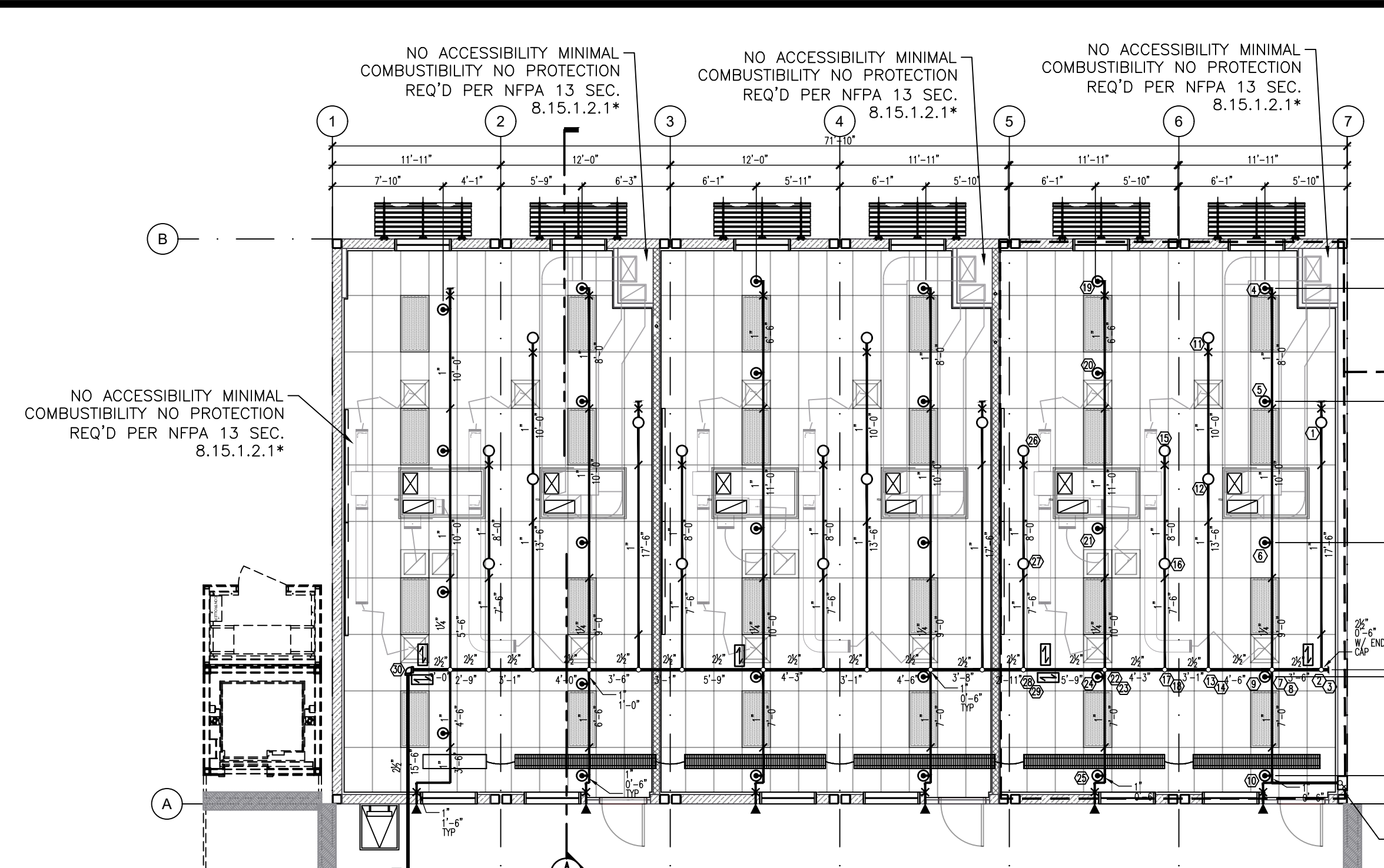
JOB NO.:	
SCALE: AS NOTED	
DRAWN BY: AR/PM	
DATE: 03/2021	
SHEET NO.: FS-1	

BID SET 10/01/2021



1st FLOOR REFLECTED CEILING  
FIRE SPRINKLER PIPING PLAN  
72'X40' & 72'X40' MODULAR KINDER BUILDING

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



2nd FLOOR REFLECTED CEILING  
FIRE SPRINKLER PIPING PLAN  
72'X40' & 72'X40' MODULAR KINDER BUILDING

**HYDRAULIC SYSTEM**  
THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM

LOCATION: SEE PLAN

**SPRINKLER INFORMATION**

NUMBER OF FLOWING SPRINKLERS: 17  
 MANUFACTURER: RELIABLE  
 MODEL: F1FR  
 155' QUICK RESPONSE  
 1/2" ORIFICE 5.6 K-FACTOR

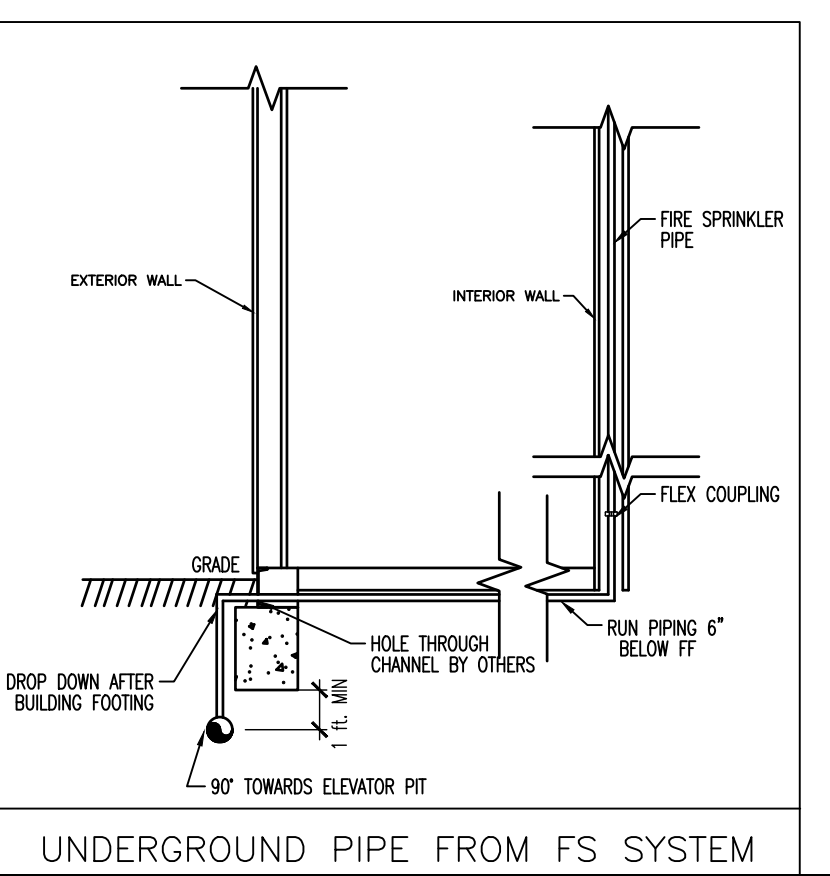
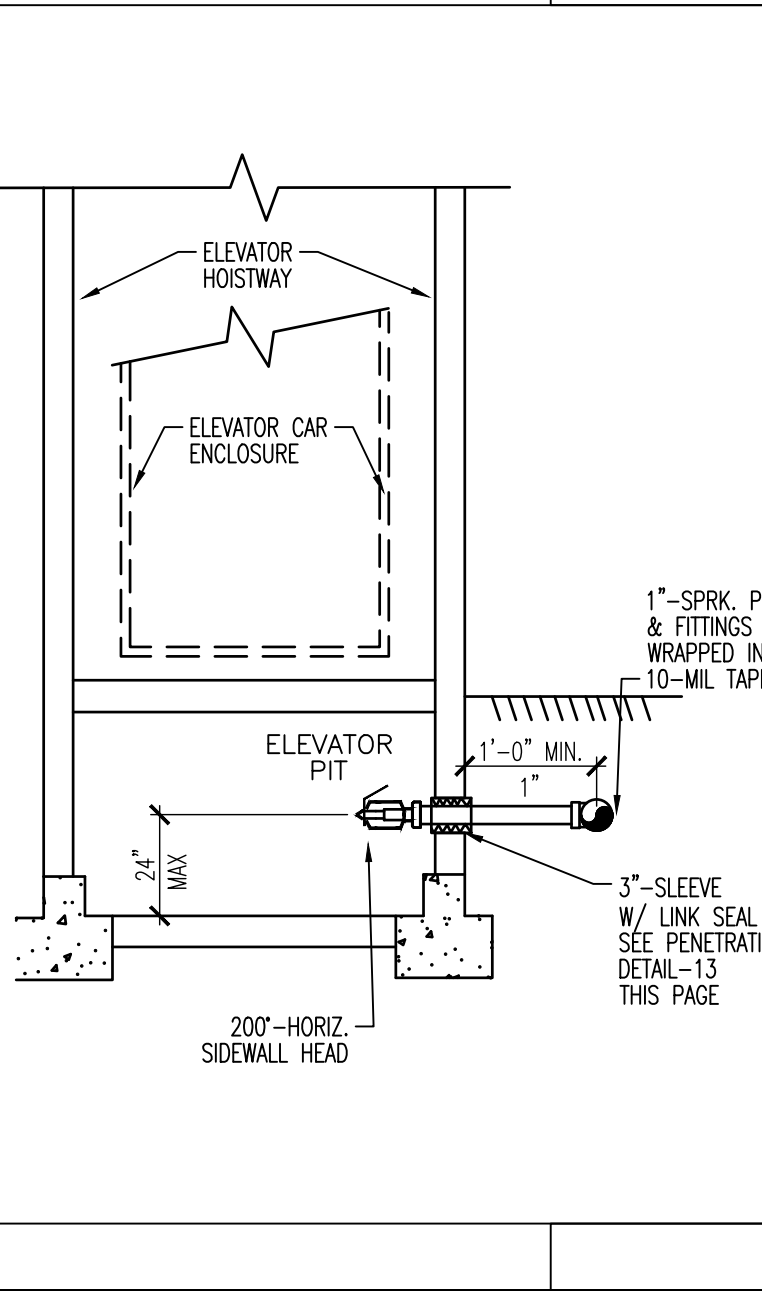
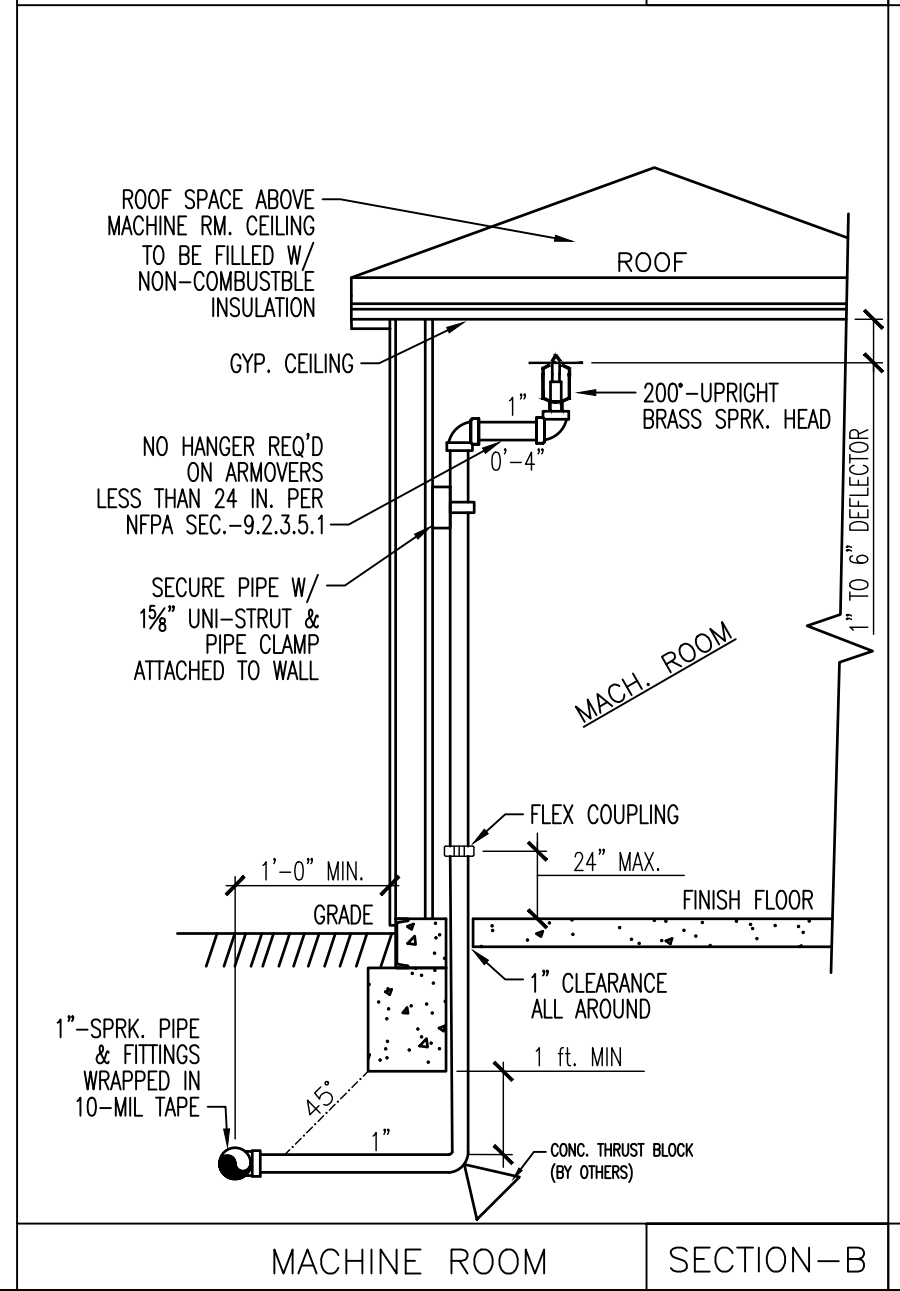
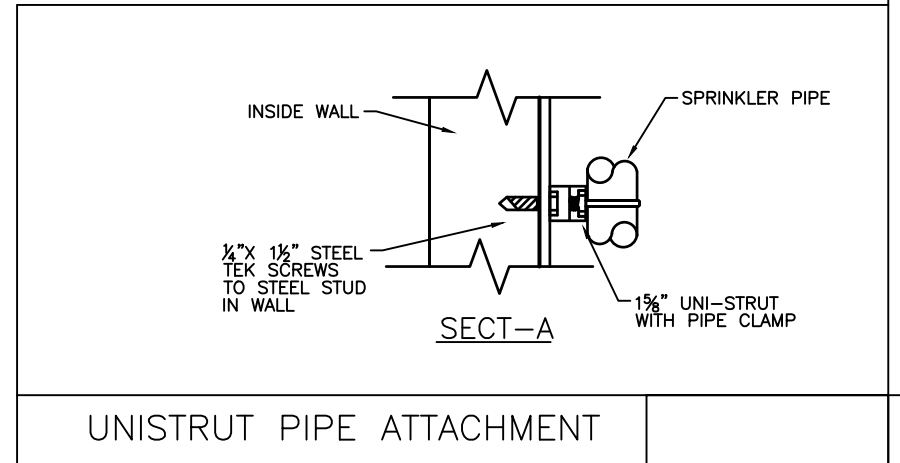
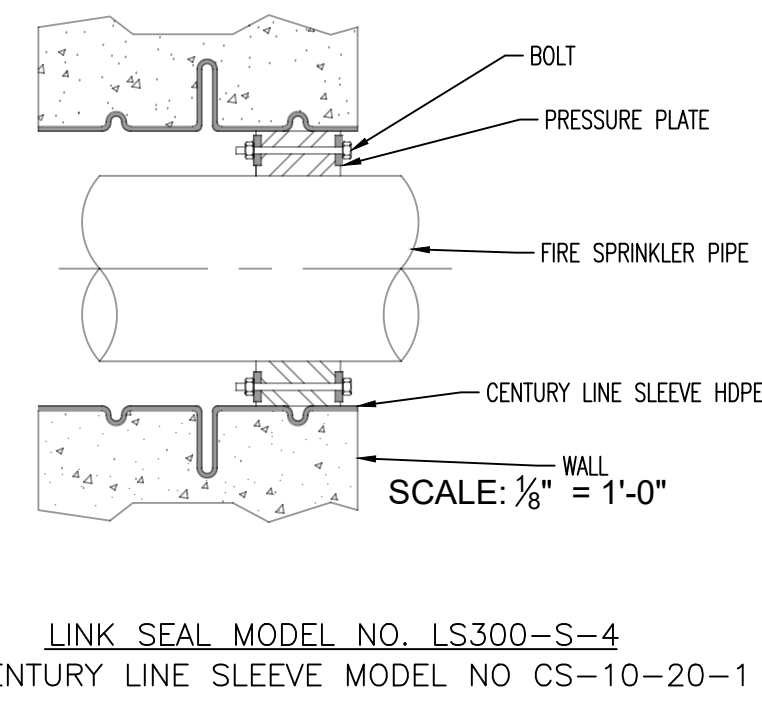
**BASIS OF DESIGN**

STANDARD: NFPA 13, 2019 EDITION  
 HAZARD GROUP: LIGHT HAZARD GROUP  
 DENSITY: 0.10 GPM/SQ.FT.  
 DESIGN AREA OF DISCHARGE: 960 SQ.FT.

**SYSTEM DEMAND**

GPW DEMAND AT THE BASE OF THE RISER: 327.2 GPM  
 RESIDUAL PRESSURE AT THE BASE OF THE RISER: 71.5 PSI  
 GPW DEMAND AT THE WATER SUPPLY SOURCE: 427.2 GPM  
 RESIDUAL PRESSURE AT THE WATER SUPPLY SOURCE: 74.1 PSI  
 HOSE STREAM ALLOWANCE: 0 GPM INSIDE, 100 GPM OUTSIDE, 100 GPM TOTAL  
 REMOTE SPRINKLER FLOW: 15.0 GPM @ 8.0 PSI

Y-Axis: 40, 30, 20, 10  
 X-Axis: 10, 20, 30  
 CEILING HEIGHT (FT.): Y = -0.2X + 55  
 9'-0" CEILING = 40% REDUCTION  
 MOST REMOTE AREA = 900 sq. ft. MIN  
 PER NFPA 13 SEC. 11.2.3.2.1



**WATER FLOW INFO.**

STATIC: 103 PSI  
 RESIDUAL: 35 PSI  
 FLOW: 1,519 GPM

INFORMATION FROM:  
 GLENDALE FIRE DEPT.  
 DATED: 11-18-2020

**HYDRAULIC CALC. REFERENCE POINT**

4-WAY SWAY BRACE  
 LONG/LAT. SWAY BRACE  
 FIRE RISER  
 TYP. HANGER  
 END OF LINE HANGER/RESTRAINT

**HANGER LEGEND**

NON-COMBUSTIBLE STAIRS. NO STORAGE UNDER LANDING. NO FIRE SPRINKLERS REQUIRED. PER NFPA 13 SEC. 9.3.4.2.3.1 (TYP)

**UNDERGROUND FIRE MAIN**

NEW UNDERGROUND PIPING  
 EXISTING UNDERGROUND PIPING  
 POST INDICATOR VALVE (PIV)  
 KEY VALVE  
 FIRE DEPARTMENT CONNECTION (FDC)  
 FIRE HYDRANT

**FIRE SPRINKLER HEAD LEGEND**

SYM.	MAKE AND MODEL	K-FAC	SIZE	TEMP	TYPE	FINISH	CANOPY	QTY.
●	RELIABLE F1FR	5.6	1/2"	200°	UPRIGHT	BRASS	N/A	145
○	RELIABLE F1FR	5.6	1/2"	155°	PENDENT	CHR. RECESSED		107
◐	RELIABLE F1FR	5.6	1/2"	155°	HSW	BRASS	401 CANOPY	24

① DENOTES UP OVER DOWN HEAD SYMBOL

TOTAL SPRINKLER HEADS THIS SHEET 276

**AUTHORITY HAVING JURISDICTION**

DATE: BY: REVISIONS:



**AMS**  
 American Modular Systems, Inc.  
 787 Spreckels Ave., Manteca, CA 95336  
 Phone (209) 825-1921 - Fax (209) 825-7018  
 americanmodular.com

**FIRE PROTECTION, INC.**  
 1623 LEESON LANE CORONA, CALIFORNIA 92879  
 (951) 737-9965 FAX (951) 737-8860 LICENSE NO. C16-410294  
 TITLE: FIRE SPRINKLER LAYOUT/PIPING PLAN: 2-STORY  
 GLENOAKS E.S. 2-STORY  
 2015 EAST GLENOAKS BLVD  
 GLENDALE, CA

JOB NO.:  
 SCALE: AS NOTED  
 DRAWN BY: AR/PM  
 DATE: 03/2021  
 SHEET NO.: FS-2

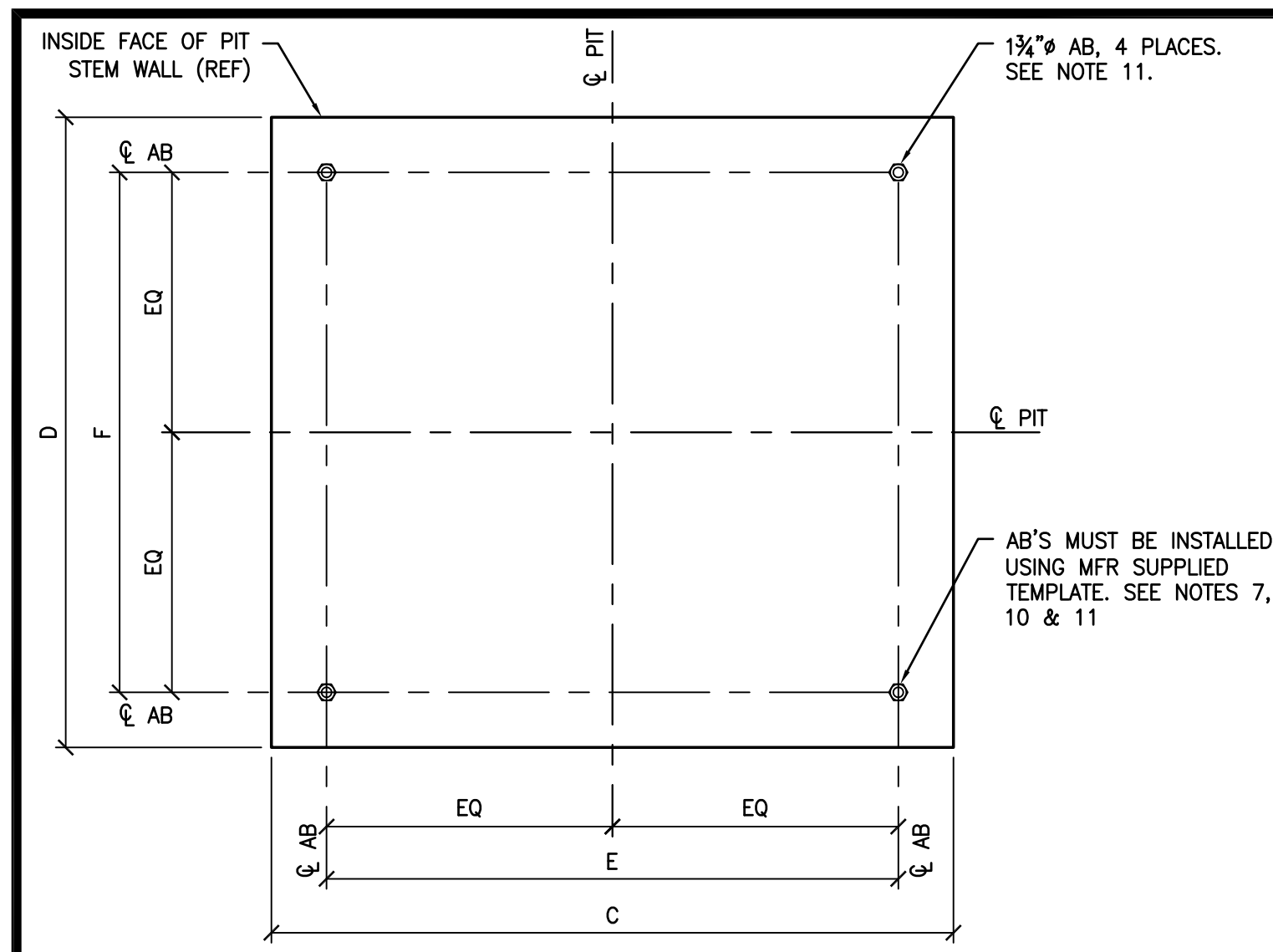
BID SET 10/01/2021



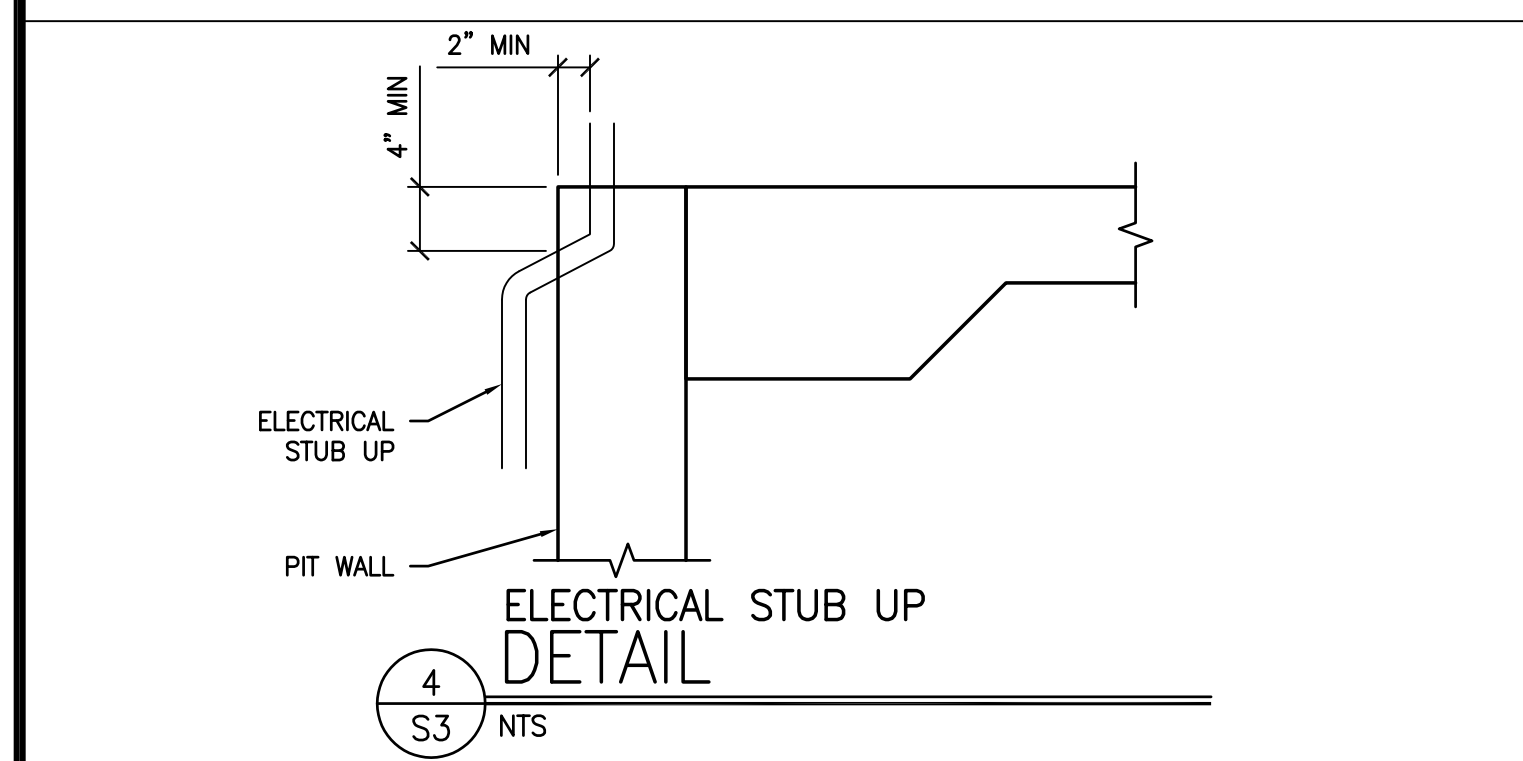




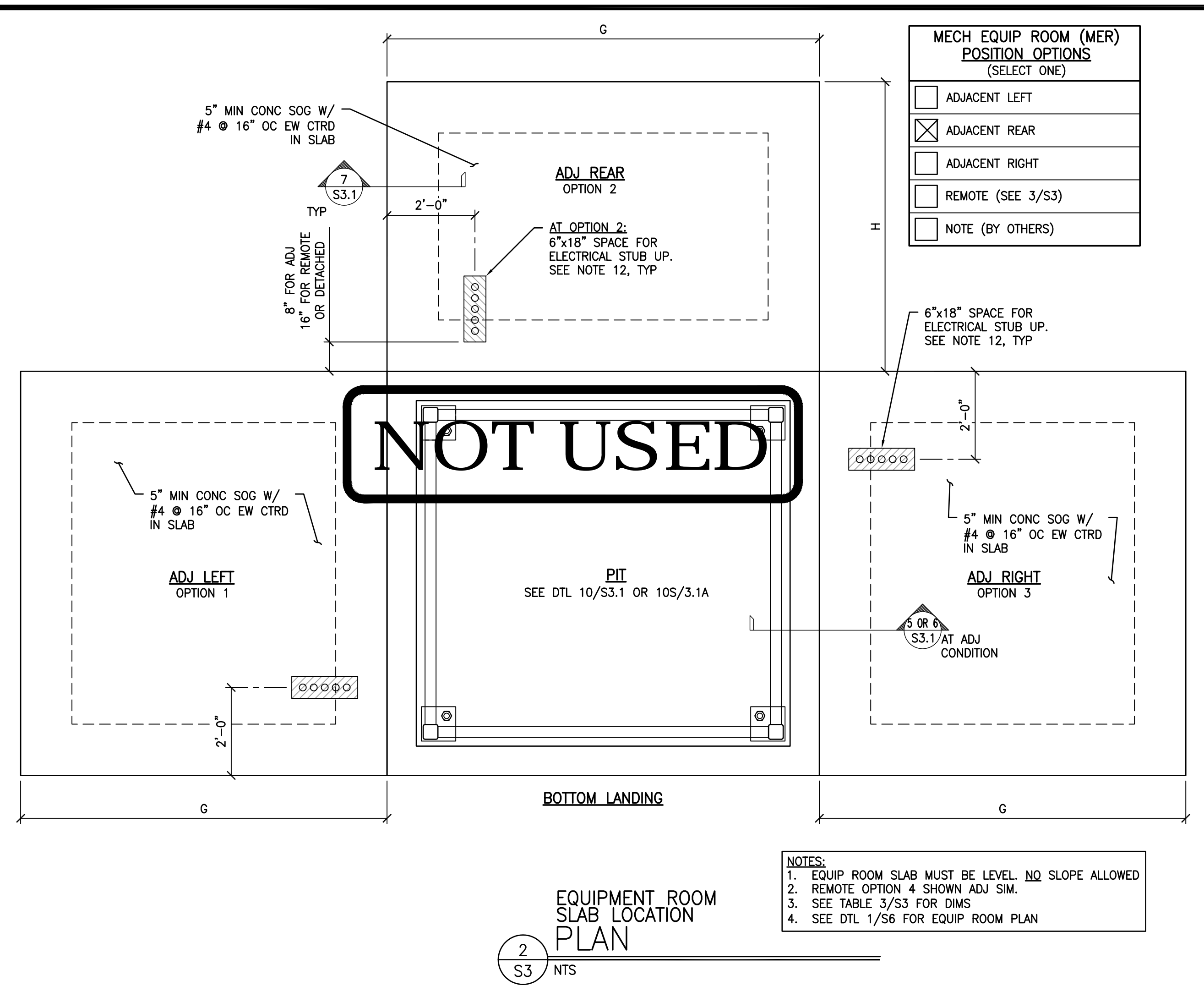




ANCHOR BOLT LAYOUT PLAN  
5 S3 NTS



ELECTRICAL STUB UP DETAIL  
4 S3 NTS



EQUIPMENT ROOM SLAB LOCATION PLAN  
2 S3 NTS

**HOISTWAY SELECTION**  
(SELECT ONE HOISTWAY & ONE ELEVATOR MODEL)

HOISTWAY SIZE (APPROX INSIDE CLR)	<input type="checkbox"/> HW-1 7'-6"W x 6'-10"D	<input checked="" type="checkbox"/> HW-2 8'-6"W x 6'-10"D	<input type="checkbox"/> HW-3 9'-2"W x 6'-10"D
ELEVATOR MODEL	<input type="checkbox"/> 2000R	<input type="checkbox"/> 2500R	<input type="checkbox"/> 3000 R/G
R = REVERSE OPG G = CBC 2016 GURNEY COMPLIANT	<input type="checkbox"/> 2500	<input type="checkbox"/> 3000	<input type="checkbox"/> 3500 G
		<input checked="" type="checkbox"/> 3500 G	<input type="checkbox"/> 4000

REFERENCE TABLE 1, 1/VT/3 FOR ELEVATOR SIZES

**TABLE 1 - PIT SLAB DIMS**

ALLOWABLE* NET BEARING PRESSURE AT 12" (PSF)	ALLOWABLE* PASSIVE PRESSURE (PCF)	REQ DIMS	
		A	B
<input type="checkbox"/> 1500 (1)	100	16'-4"	16'-8"
<input checked="" type="checkbox"/> 2000 (2)	150	15'-6"	15'-6"
<input type="checkbox"/> 3000 (2)	200	15'-0"	15'-6"
<input type="checkbox"/> 4000 (2)	400	14'-6"	15'-0"

\* BASIC UNFACTORED ALLOWABLE VALUE AT 12" MIN DEPTH BLW UNDISTURBED GROUND SURFACE  
(1) VALUE ALLOWED FOR DEAD + LIVE LOADS IF NO SOILS REPORT  
(2) VALUE ALLOWED FOR DEAD + LIVE LOADS WHEN JUSTIFIED BY A SOIL REPORT

**TABLE 2 - PIT DIMS & AB LOCATIONS**

DIMS	DESCRIPTION	<input type="checkbox"/> HW-1	<input checked="" type="checkbox"/> HW-2	<input type="checkbox"/> HW-3
C	CLEAR PIT	8'-6"	9'-6"	10'-2"
D	CLEAR PIT	7'-10 1/4"	7'-10 1/4"	7'-10 1/4"
E	AB	7'-1 1/2"	8'-1 1/2"	8'-9 1/2"
F	AB	6'-5 3/4"	6'-5 3/4"	6'-5 3/4"

**TABLE 3 - EQUIP ROOM SLAB DIMS**

POSITION	OPT 1 SIDE		OPT 2 REAR		OPT 4 REMOTE	
	ALL	HW-1	HW-2	HW-3	ALL (MIN)	
G	8'-4"	9'-10"	10'-10"	11'-6"	8'-4"	
H	9'-2 1/4"	6'-7"	6'-7"	6'-7"	7'-8"	

**TABLE 3A - MIN EQUIP ROOM SLAB DIMS**

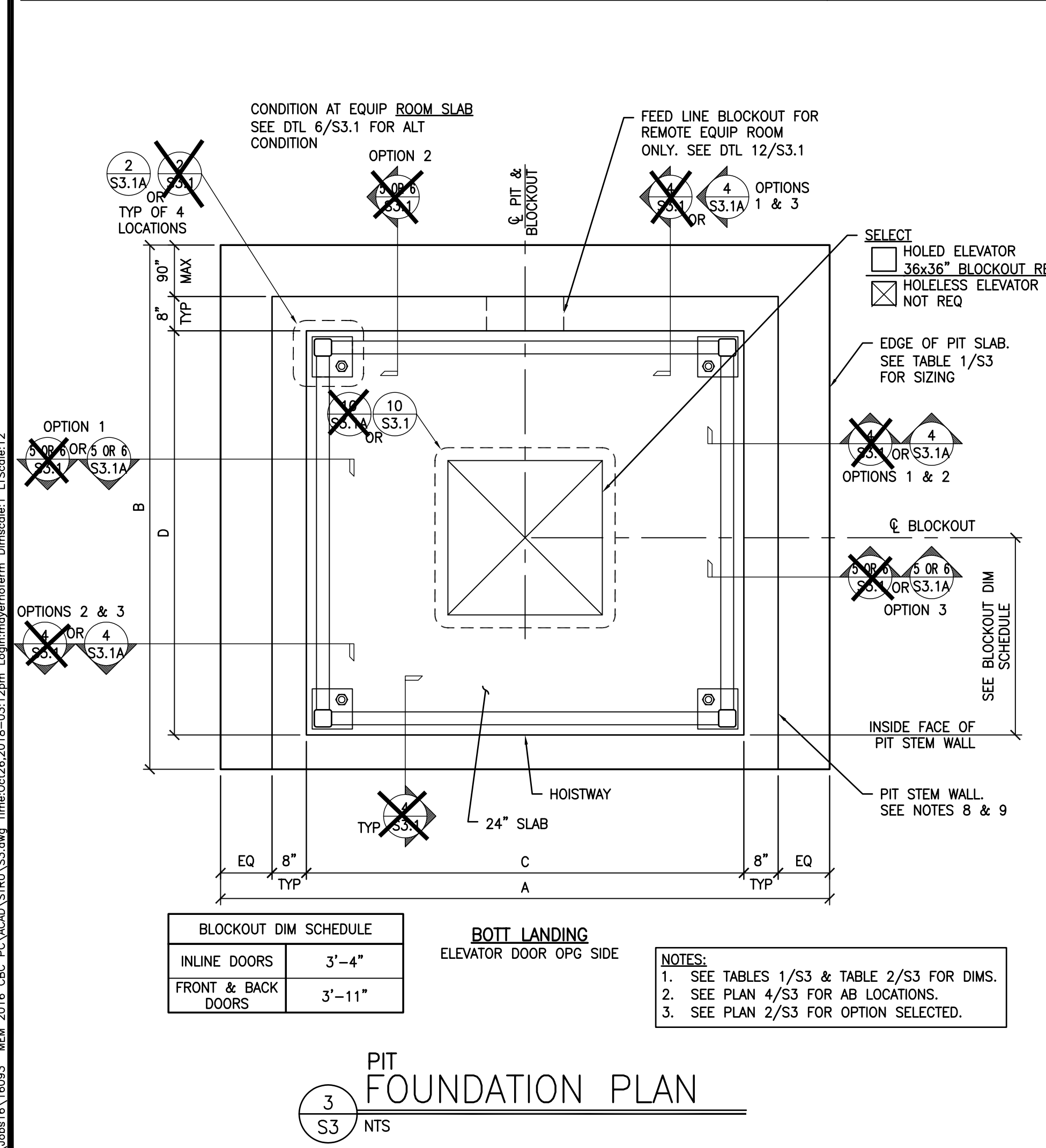
POSITION	OPT 1 SIDE		OPT 2 REAR	
	ALL	HW-1	HW-2	HW-3
G	5'-7"	5'-7"	5'-7"	5'-7"
H	9'-2 1/4"	9'-10"	10'-10"	11'-6"

**TABLE 3A - POST-INSTALLED ANCHORS TO CONC**

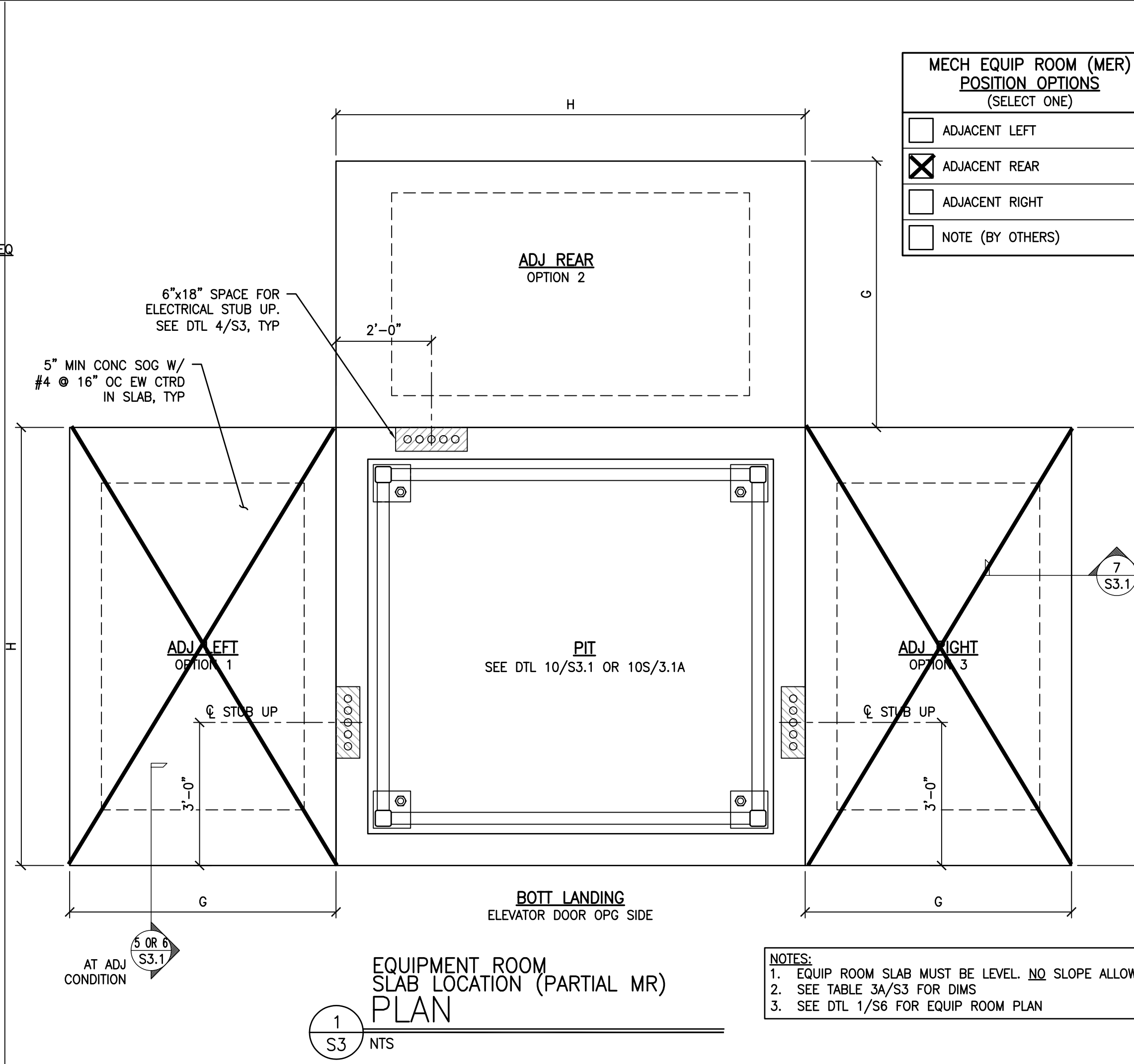
MFR	ANCHOR TYPE	ANCHOR DIA (IN)	MIN EFFECTIVE EMBEDMENT (IN) <sup>a</sup>	MIN NOMINAL EMBEDMENT (IN)	MIN EDGE/DISTANCE (IN) <sup>b</sup>	INSTALLATION TORQUE (FT-LB) <sup>c</sup>	NOMINAL APPLIED SHEAR LOAD <sup>d</sup>	ICC-ES ESR
HILTI	KB-TZ	3/8	2	2 5/16	4	25	200	1917
HILTI	KB-TZ	5/8	4	4 7/16	7	60	200	1917
HILTI	KWIK HUS EZ	3/8	2.5	3 1/4	4	40	200	3027
HILTI	KWIK HUS EZ	5/8	3.88	5	7	85	200	3027
SIMPSON STRONGTIE	STRONG-BOLT 2	3/8	2 1/2	2 7/8	4	30	200	3037
SIMPSON STRONGTIE	STRONG-BOLT 2	5/8	4 1/2	5.125	7	80	200	3037
SIMPSON STRONGTIE	TITEN HD	3/8	2.4	3 1/4	4	50	200	2713
POWERS	POWER-STUD+SD1	3/8	2	2 3/8	4	20	200	2818
POWERS	POWER-STUD+SD1	5/8	4	4 5/8	7	80	200	2818

- PER ICC-ES ESR
- PER DESIGN DRAWINGS, NOT ICC-ES ESR
- APPLIED TOWARDS NEAREST FREE EDGE OF CONCRETE.
- APPLIED TOWARDS NEAREST FREE EDGE OF CONCRETE SUBSTRATE IS SUFFICIENTLY THICK W/ RESPECT TO THE ANCHOR EMBEDMENT SO AS NOT TO BE INFLUENCE TO THE CONNECTOPN

- NOTES:**
- FOUNDATION CONSTRUCTION TO BE PERFORMED BY OTHERS & IS NOT PART OF THE ELEVATOR CONTRACTOR'S WORK
  - EQUIP ROOM IS OPTIONAL & MAY BE PROVIDED BY OTHERS.
  - GROUNDING OF STRUCTURES BY OTHERS.
  - EQUIP ROOM SLAB MAY EXTEND BEYOND DIMS SHOWN. THICKENED FTGS BLW EQUIP ROOM WALLS TO CONFORM TO DIMS SHOWN ON DTL 7/S3.1
  - PIT SLAB MAY EXTEND BYD EXTR FACE OF WALL ON SIDES SHOWN, SEE TABLE 1 ON SHT S3 FOR SLAB SIZE.
  - ARCH OR SEOR TO DETERMINE IF SOIL NET BEARING PRESSURES GREATER THAN 1500 PSF (UNFACTORED) & LATERAL PASSIVE RESISTANCE PRESSURES GREATER THAN 100 PCF (UNFACTORED) ARE ALLOWABLE. PIT SLAB AS SHOWN IN TABLE 1 ON SHT S3 FOR 1500 PSF BEARING PRESSURE & 100 PCF PASSIVE PRESSURE SHALL BE USED IF AN ACCEPTABLE SOIL INVESTIGATION REPORT IS NOT AVAILABLE THAT RECOMMENDS GREATER SOIL RESISTANCE VALUES.
  - AB TEMPLATE MUST BE PROVIDED BY ELEVATOR CONTRACTOR. RESPONSIBILITY FOR PROPER AB PLACEMENT IS BY OTHERS.
  - PIT STEM WALLS MAY BE POSITIONED TO SUIT JOBSITE CONDITIONS AT ANY POSITION WITHIN THE CONFINES OF THE PIT SLAB
  - FLUSH PIT SLAB TO STEM WALL CONDITION MAY OCCUR AT ANY WALL. MAX CONDITION MAY OCCUR ON TWO WALLS.
  - AB TEMPLATE TO BE CTDR IN PIT
  - TIE BOTTL OF AB'S TO REBAR PRIOR TO POURING SLAB TO MAINTAIN PLUMB.
  - POSITION STUB UP NEXT TO WALL THAT WILL BE ADJ TO THE HOISTWAY. FOR REMOTE MACHINE ROOM, POSITION NEXT TO WALL OPPOSITE MACHINE ROOM DOOR. SEE DTL 12/S3.1 FOR FEEDLINE BLOCKOUT
  - ALL GT TO BE RAPID SET CEMENT ALL-HIGH STRENGTH NSG OR EQ & CONFORM TO ASTM-C-1107.



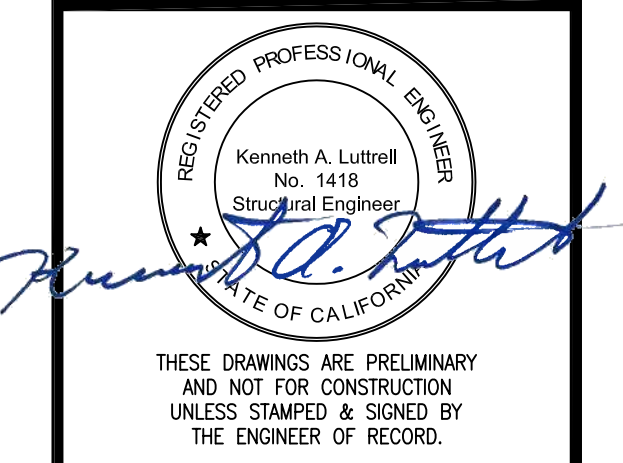
PIT FOUNDATION PLAN  
3 S3 NTS



EQUIPMENT ROOM SLAB LOCATION (PARTIAL MR) PLAN  
1 S3 NTS

NO.	DATE	REVISION

S.E. PC APPROVAL

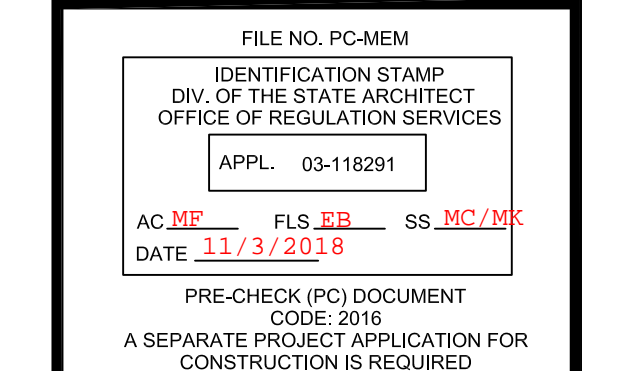


**MODULAR ELEVATOR MANUFACTURING, INC.**  
P.O. BOX 3998  
CHATSWORTH, CA. 91313  
800-755-9359

PRE-CHECK (PC) DOCUMENTS  
2016 CBC CODE  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

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PROJECT NO: 16093  
DATE: 10/19/2018  
ENGINEERED BY: KAL  
DRAWN BY: MTC



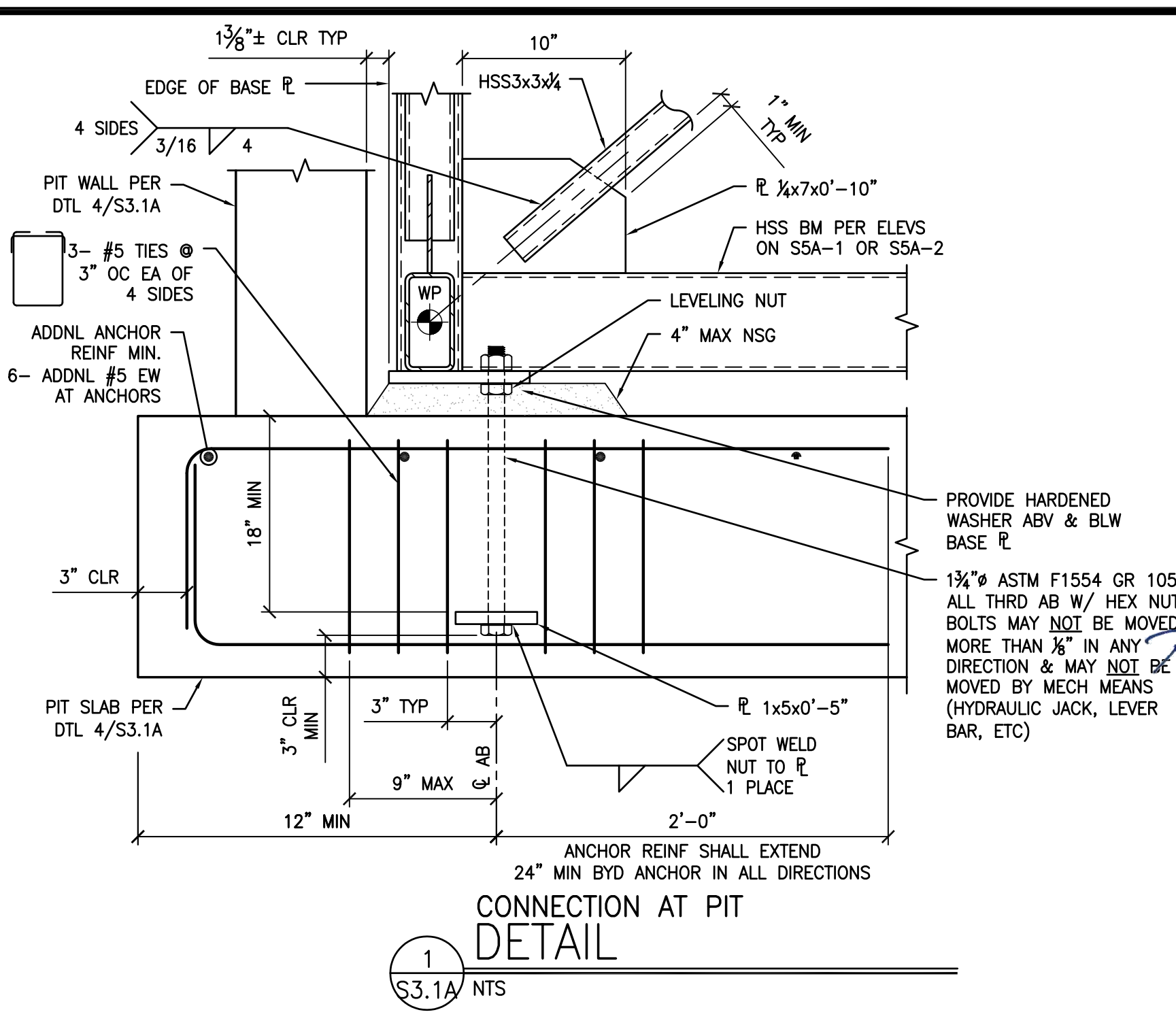
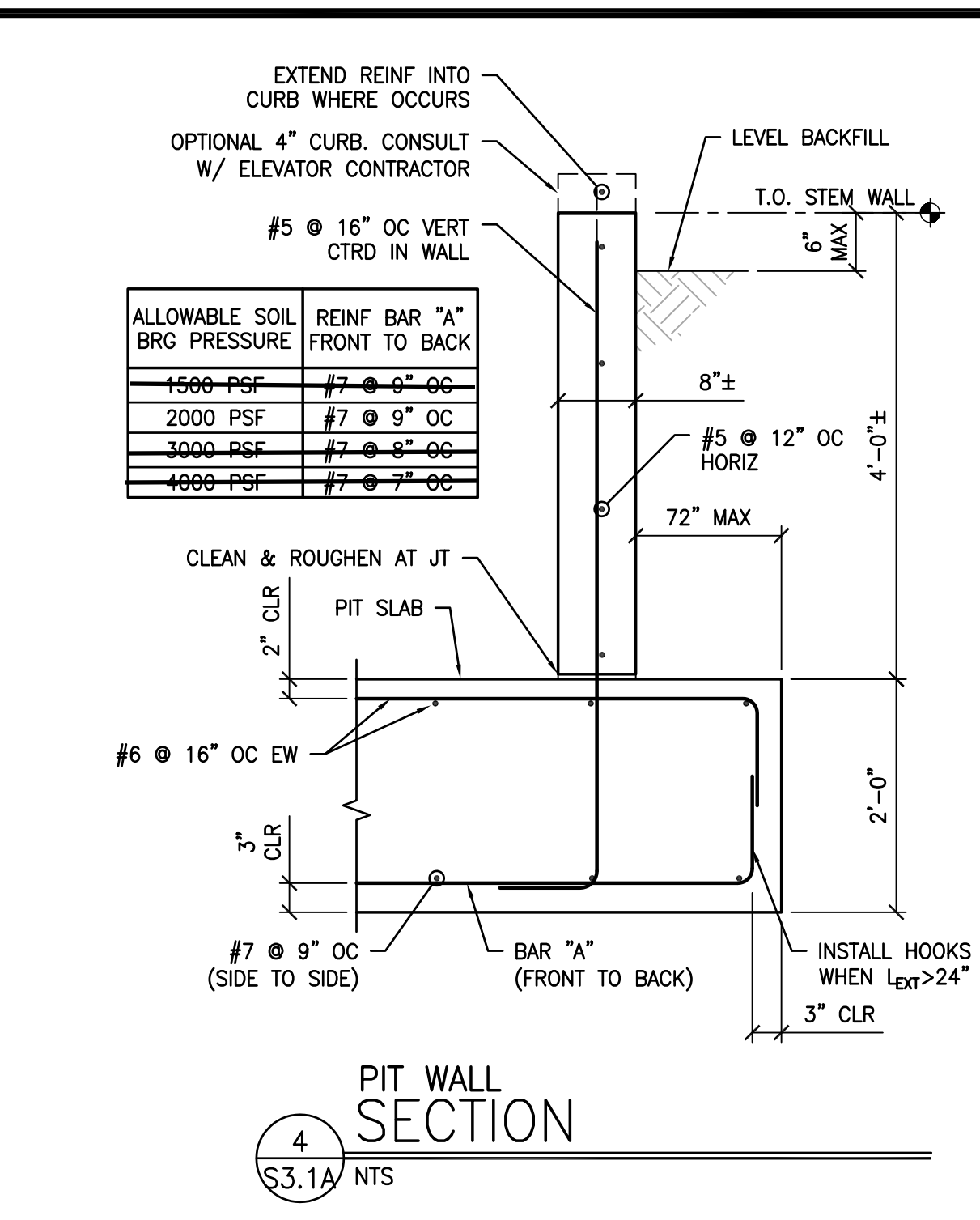
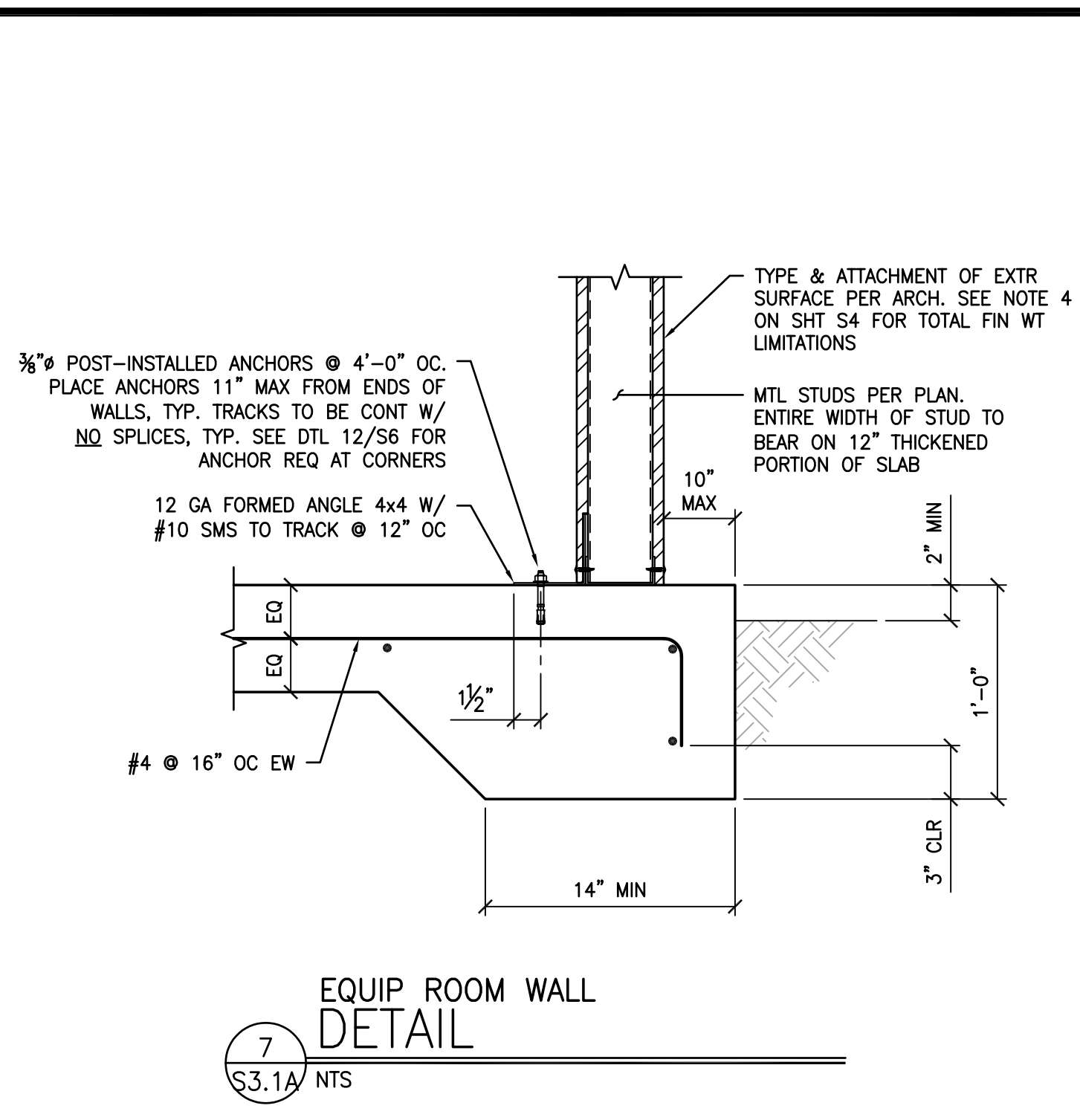
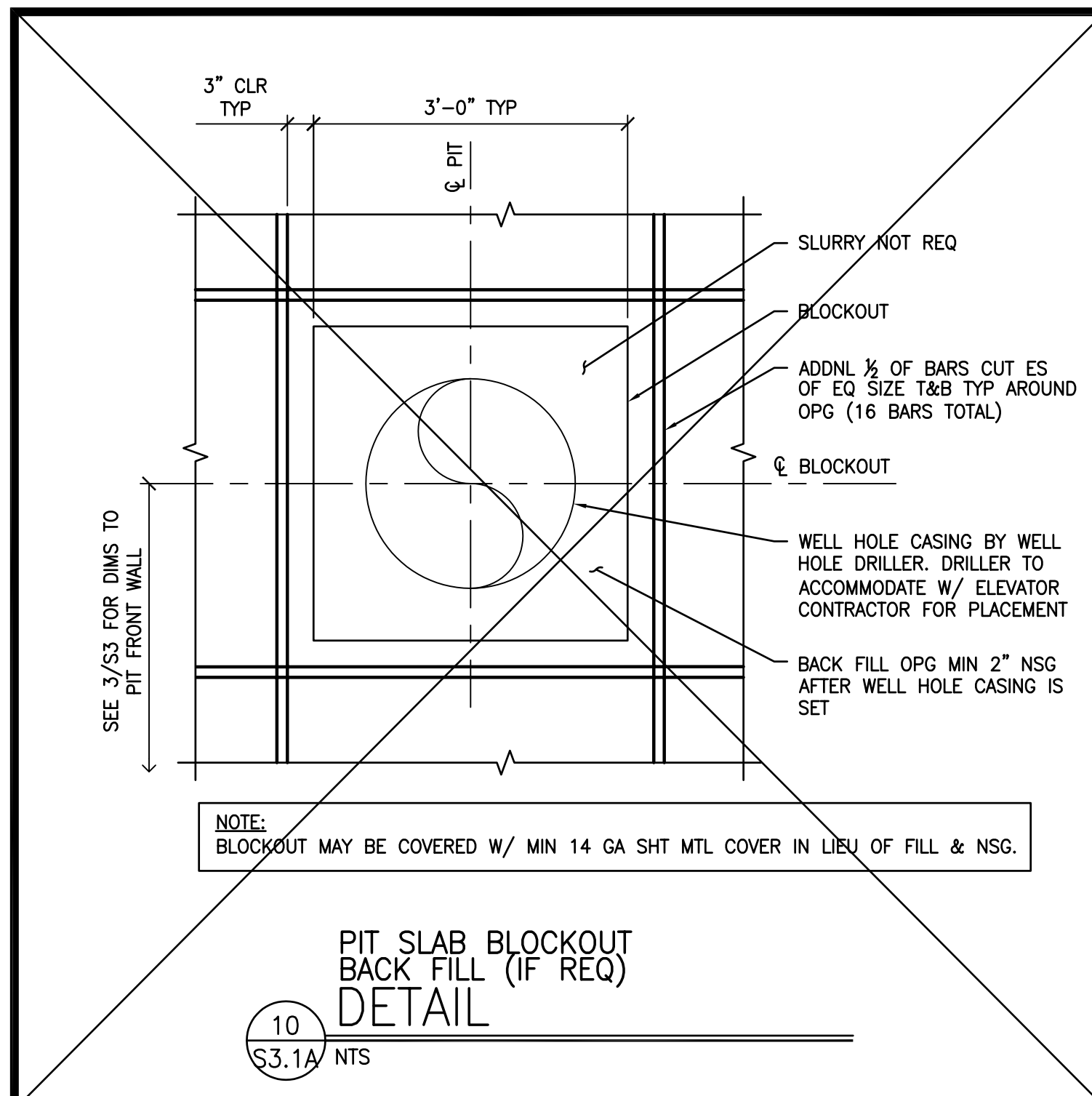
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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

SHEET NAME:  
FOUNDATION PIT PLAN

SHEET NO:

S3

BID SET 10/01/2021



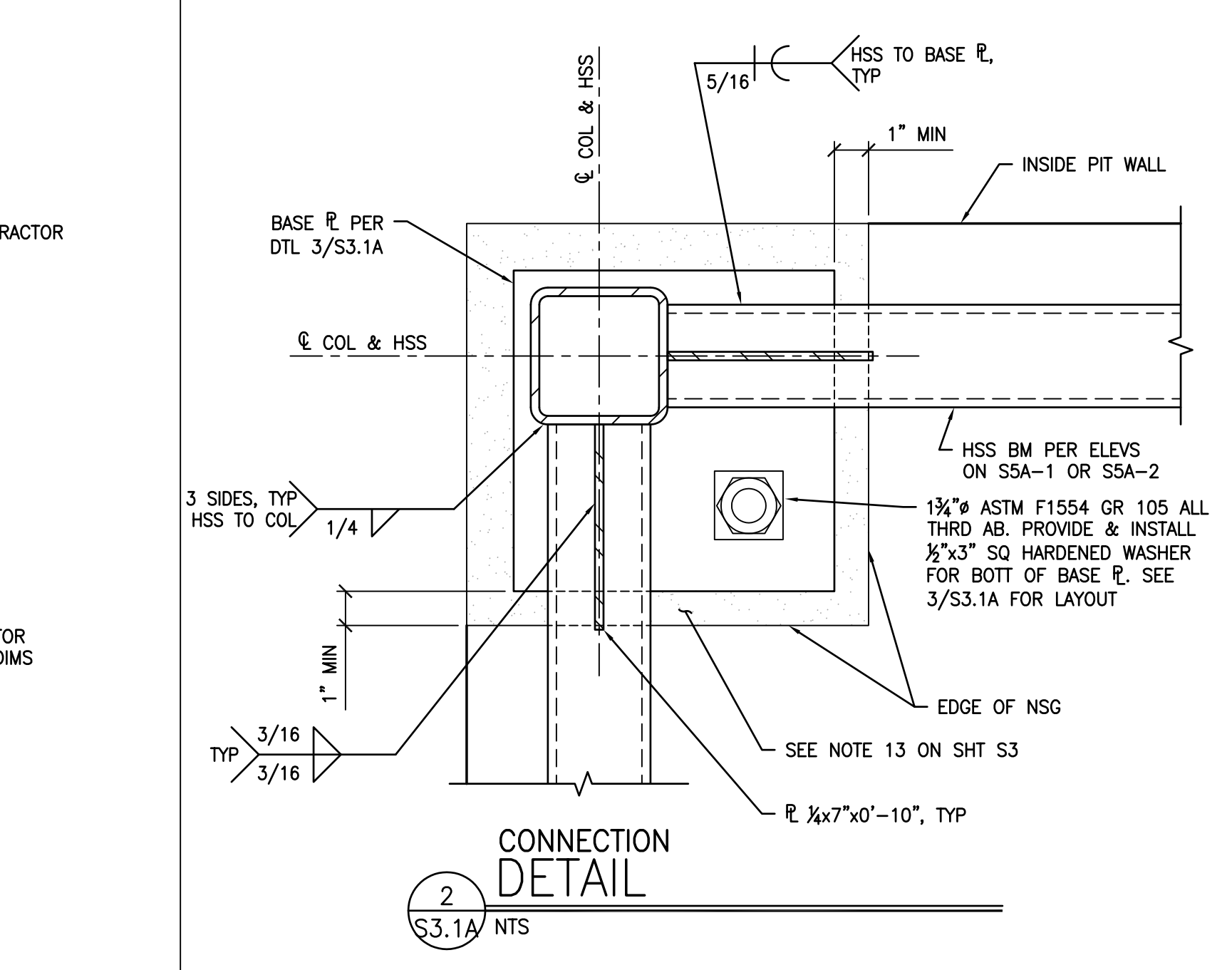
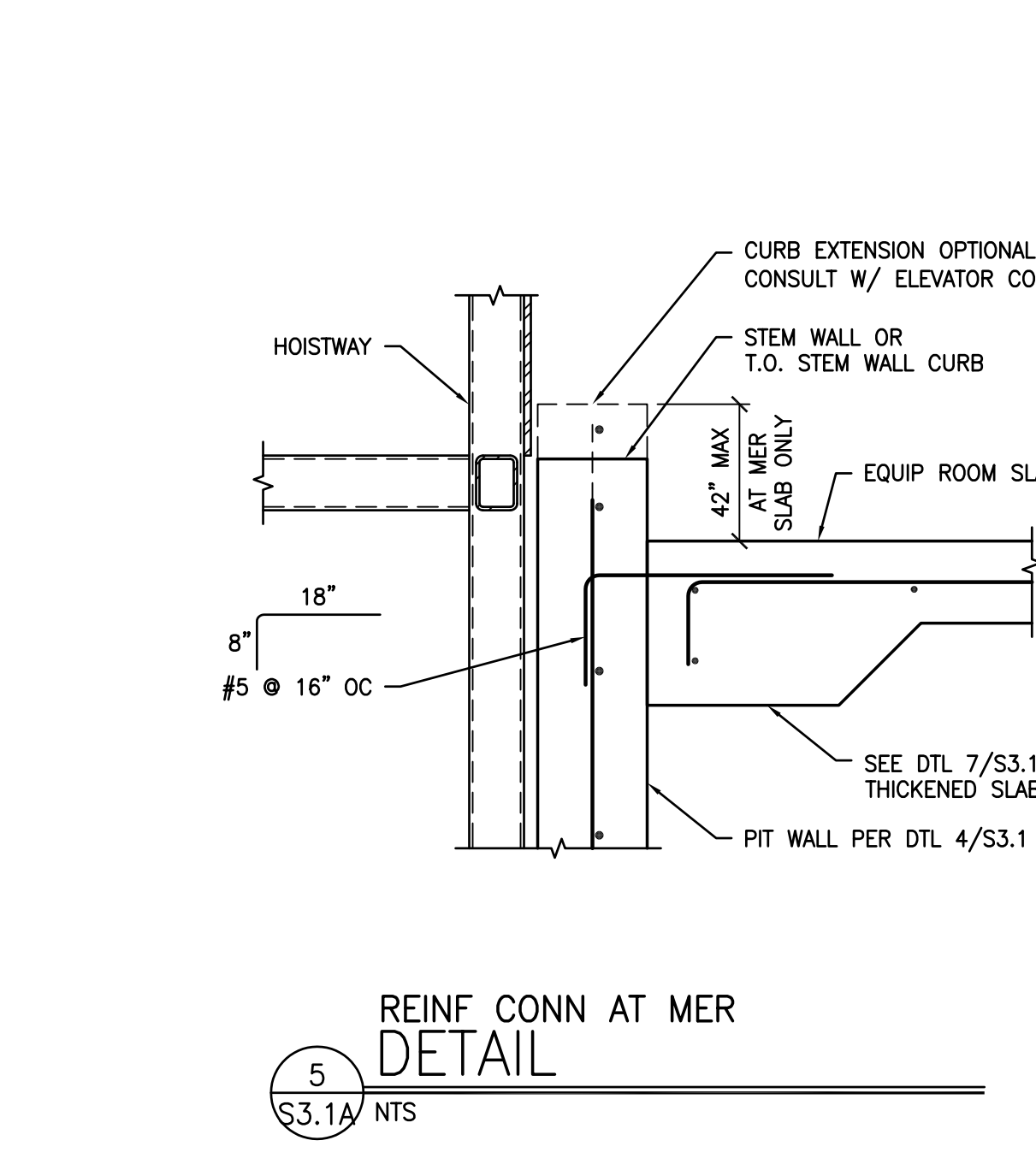
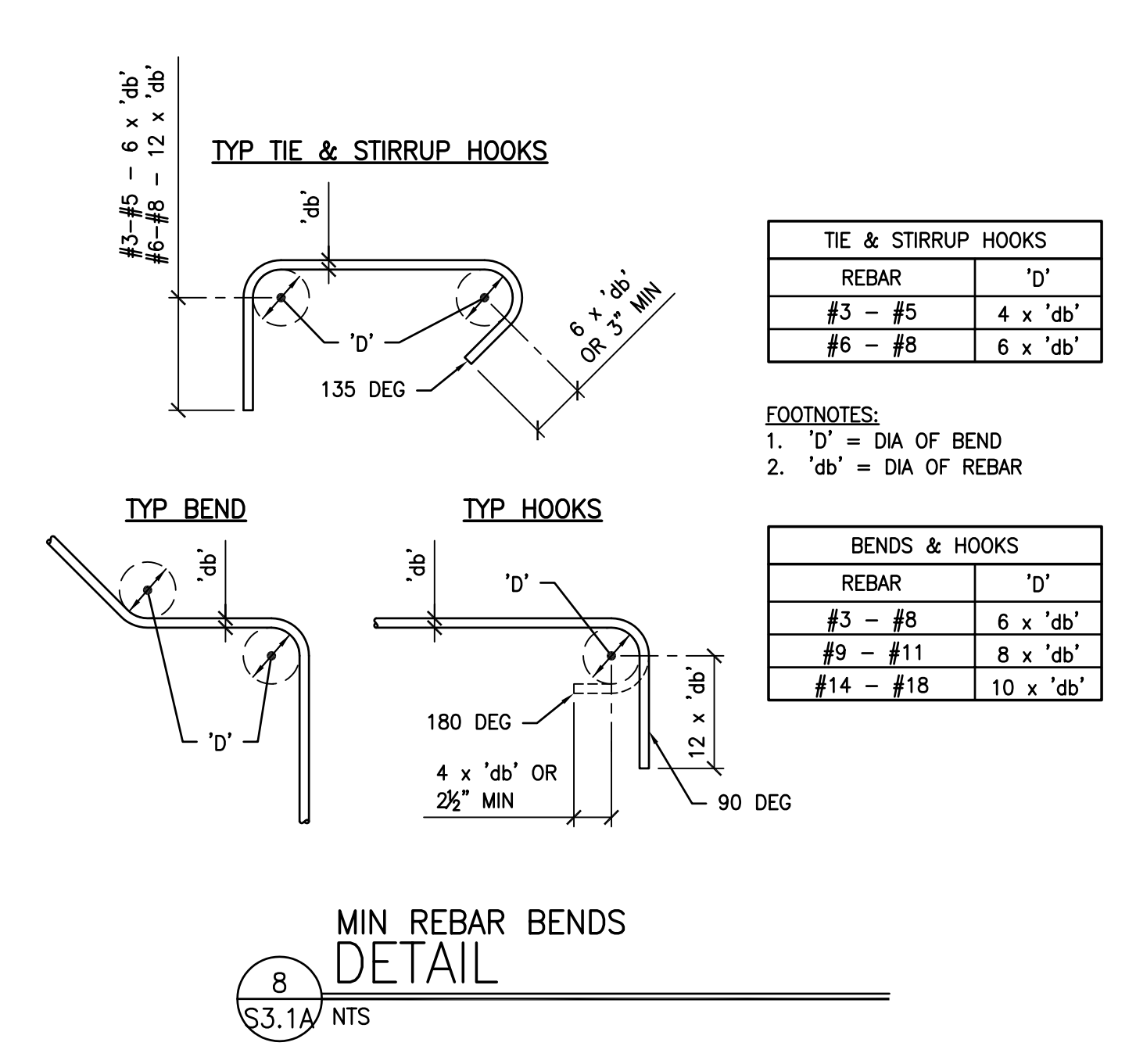
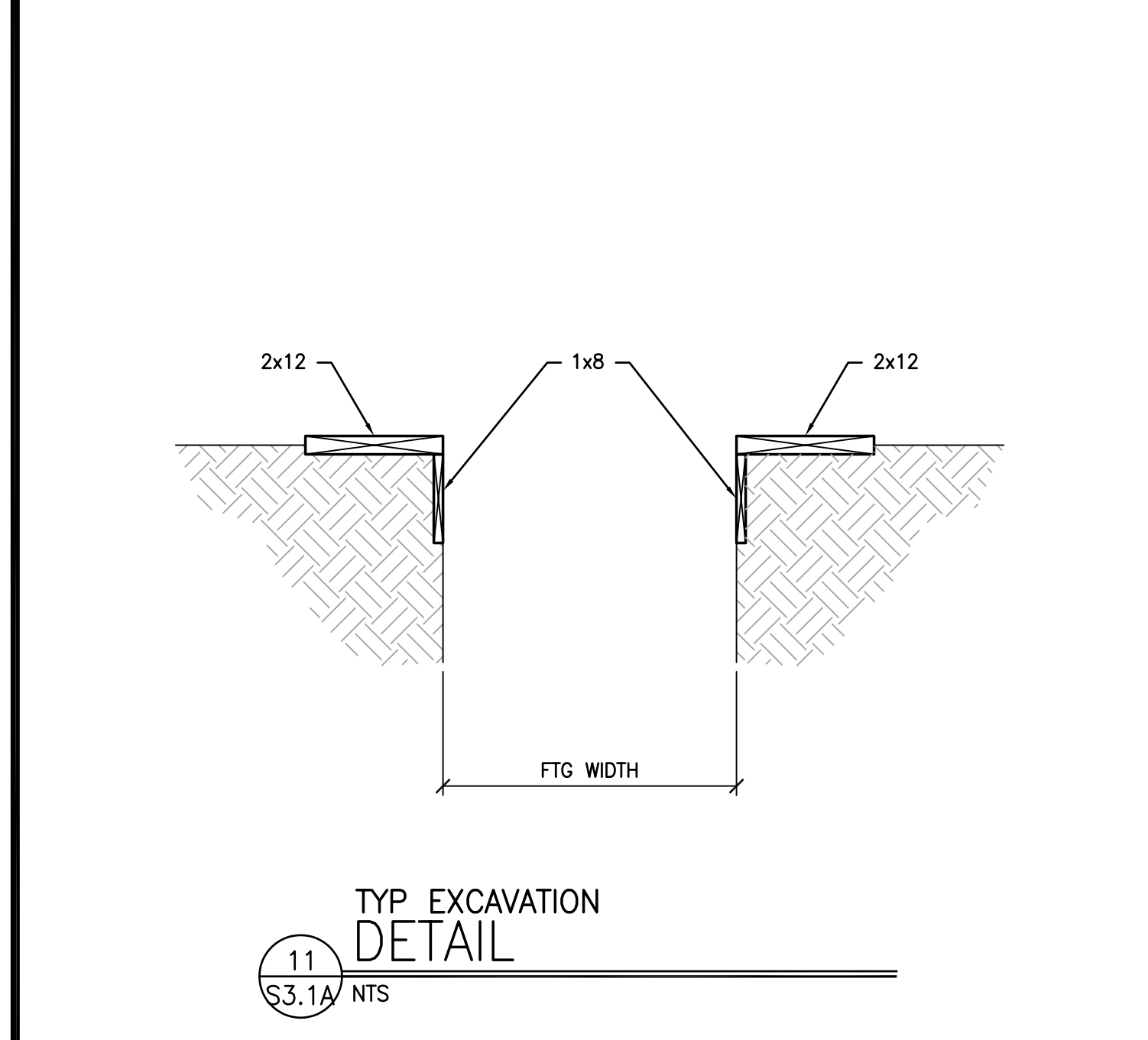
NO.	DATE	REVISION

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER  
Kenneth A. Luttrell  
No. 1418  
Structural Engineer  
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

**M-M**  
MODULAR  
ELEVATOR  
MANUFACTURING



MODULAR ELEVATOR  
MANUFACTURING, INC.  
P.O. BOX 3998  
CHATSWORTH, CA. 91313  
800-755-9359

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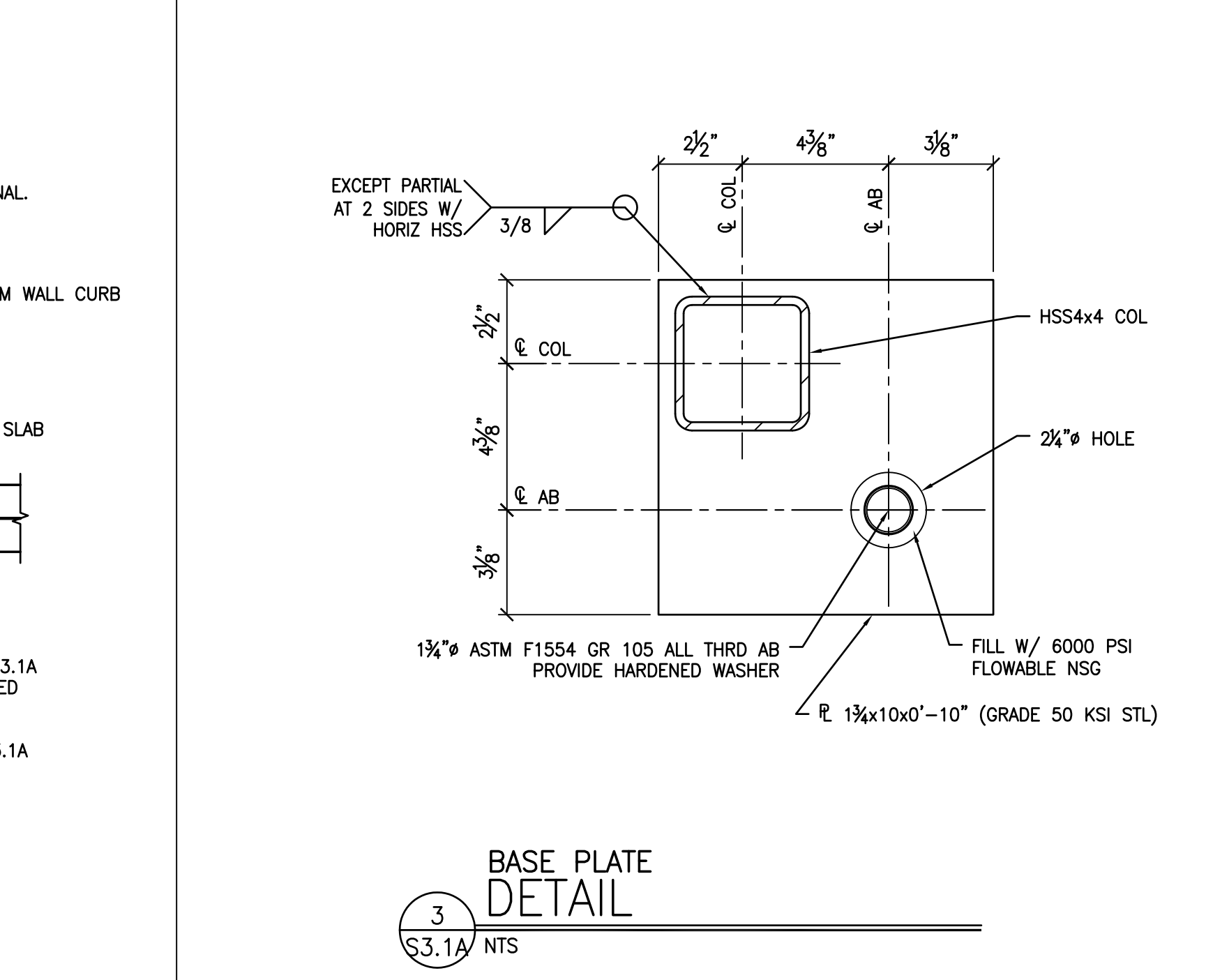
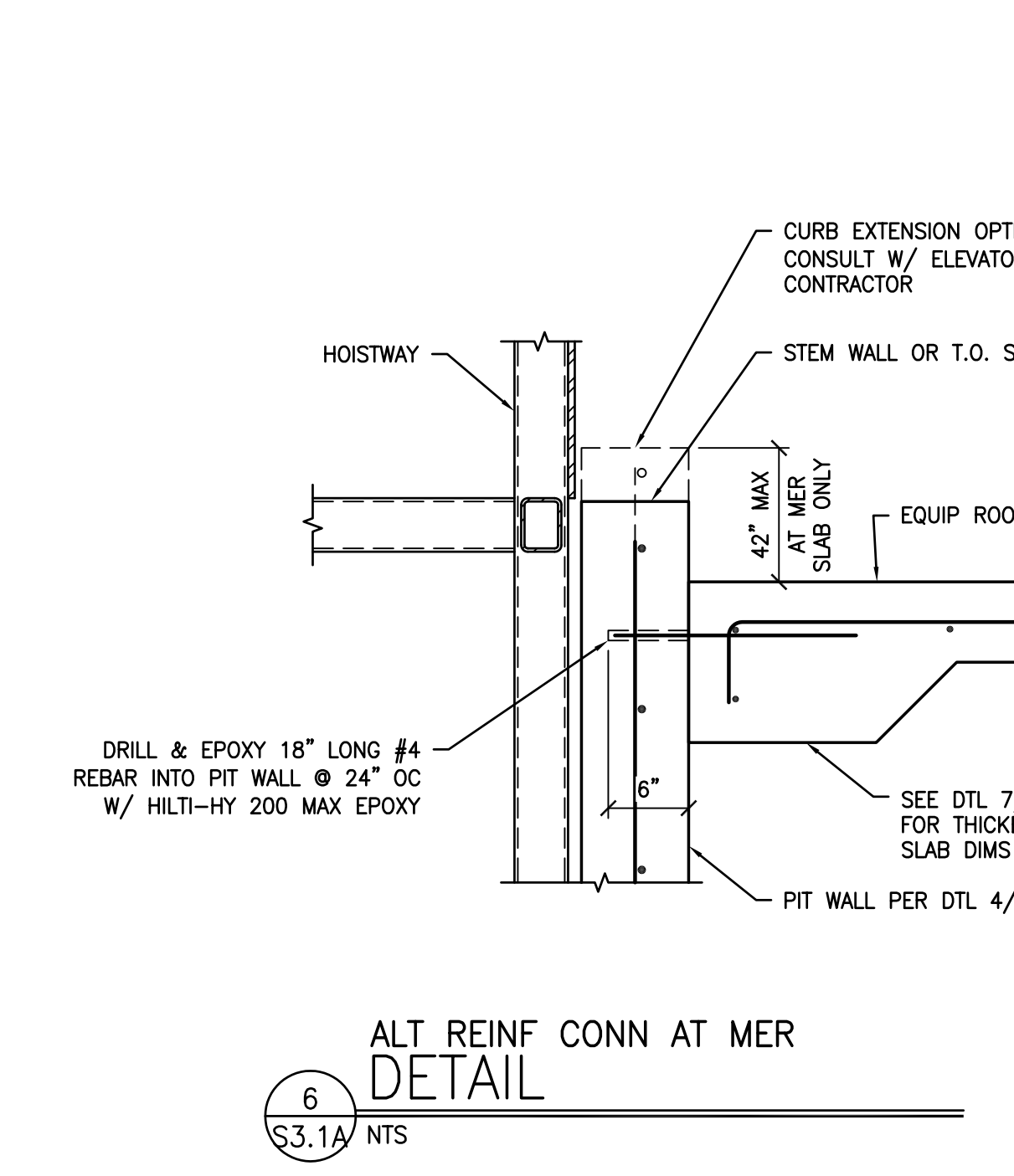
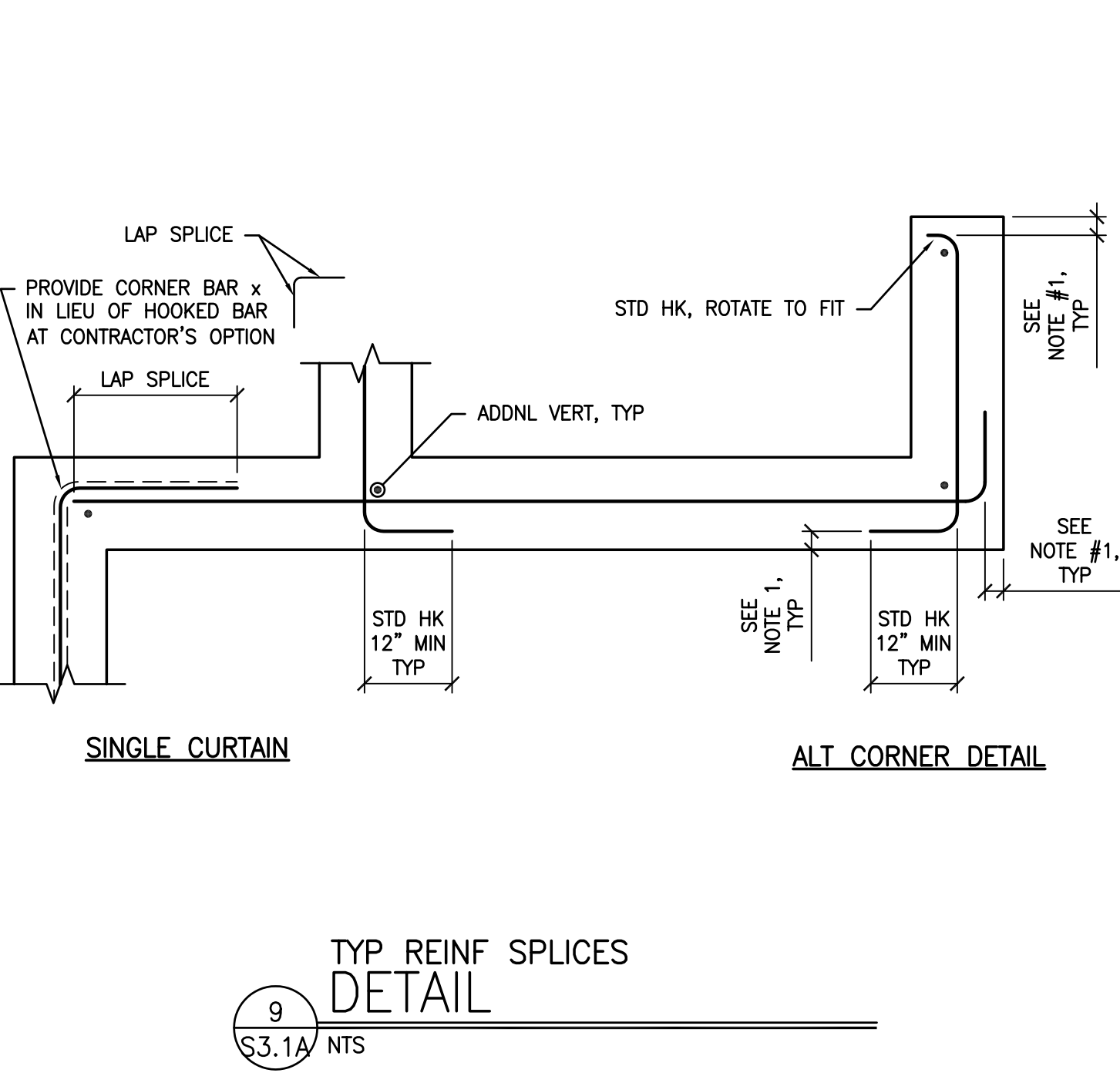
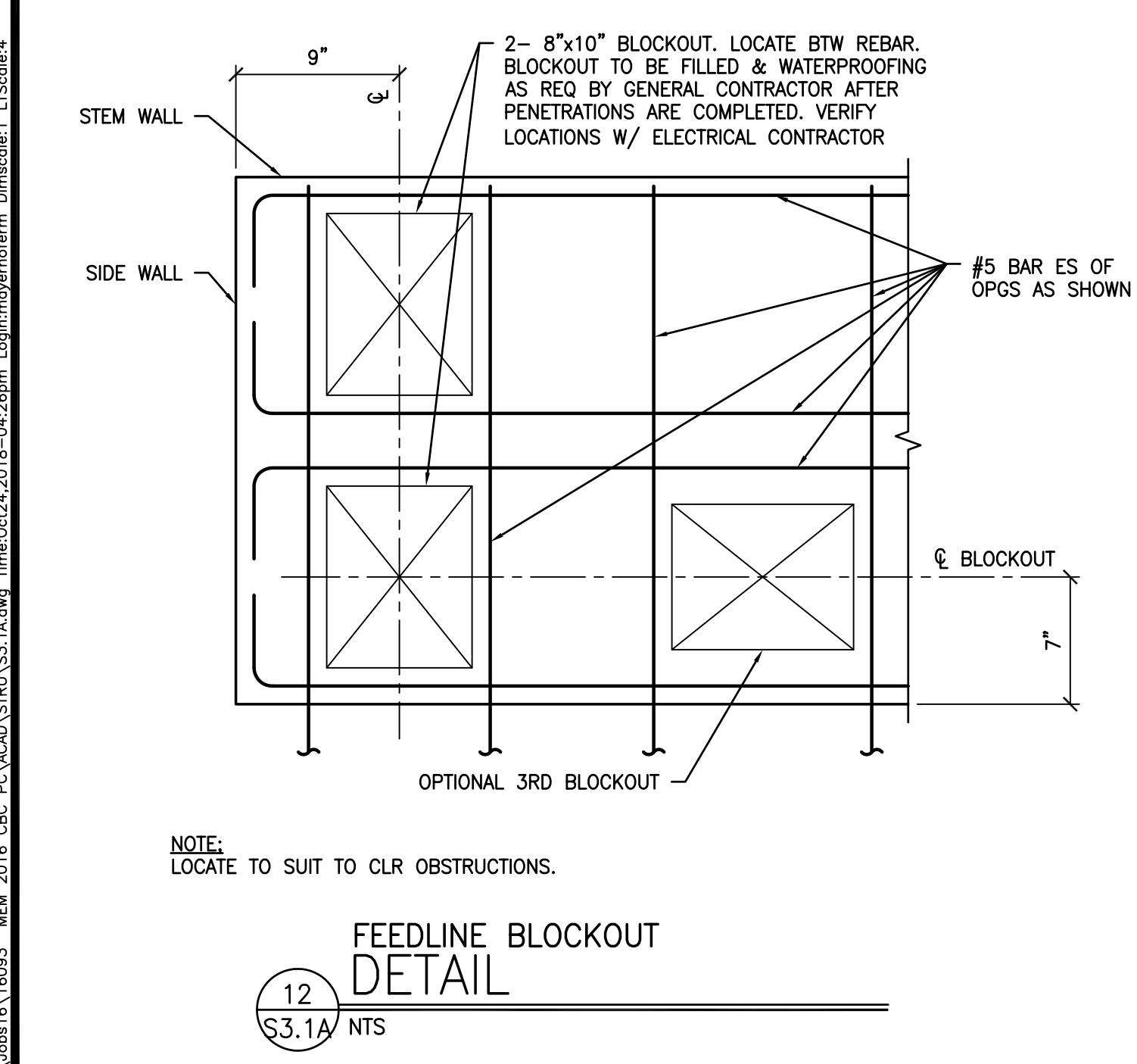
PROJECT NO: 16093  
DATE: 10/19/2018  
ENGINEERED BY: KAL  
DRAWN BY: MTC

FILE NO. PC-MEM  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL. 03-118291  
AC/MF FLS/EB SS/MC/MR  
DATE 11/3/2018

PRE-CHECK (PC) DOCUMENT  
CODE: 2016  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

SHEET NAME:  
FOUNDATION DETAILS  
MAX 44'-0"  
TOWER HEIGHT

SHEET NO:



FOUNDATION DETAILS  
MAX 44'-0"  
TOWER HEIGHT

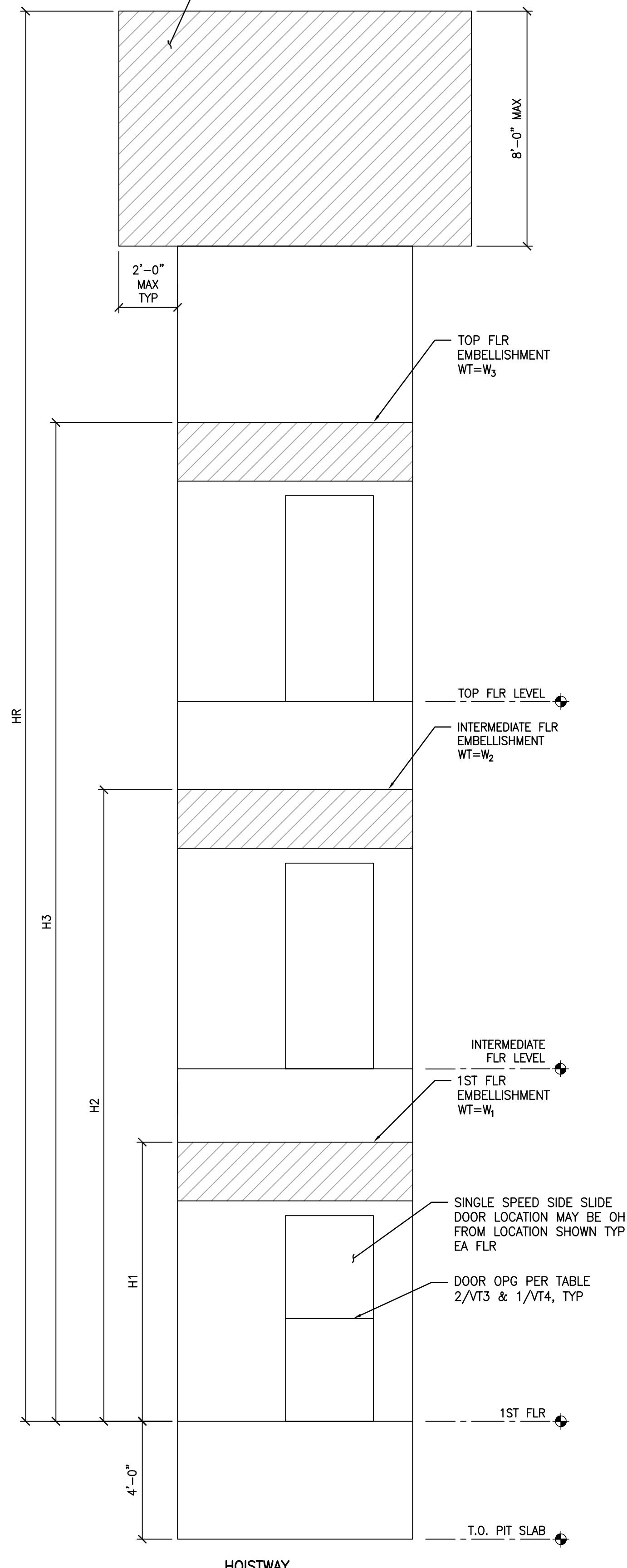
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S3.1A

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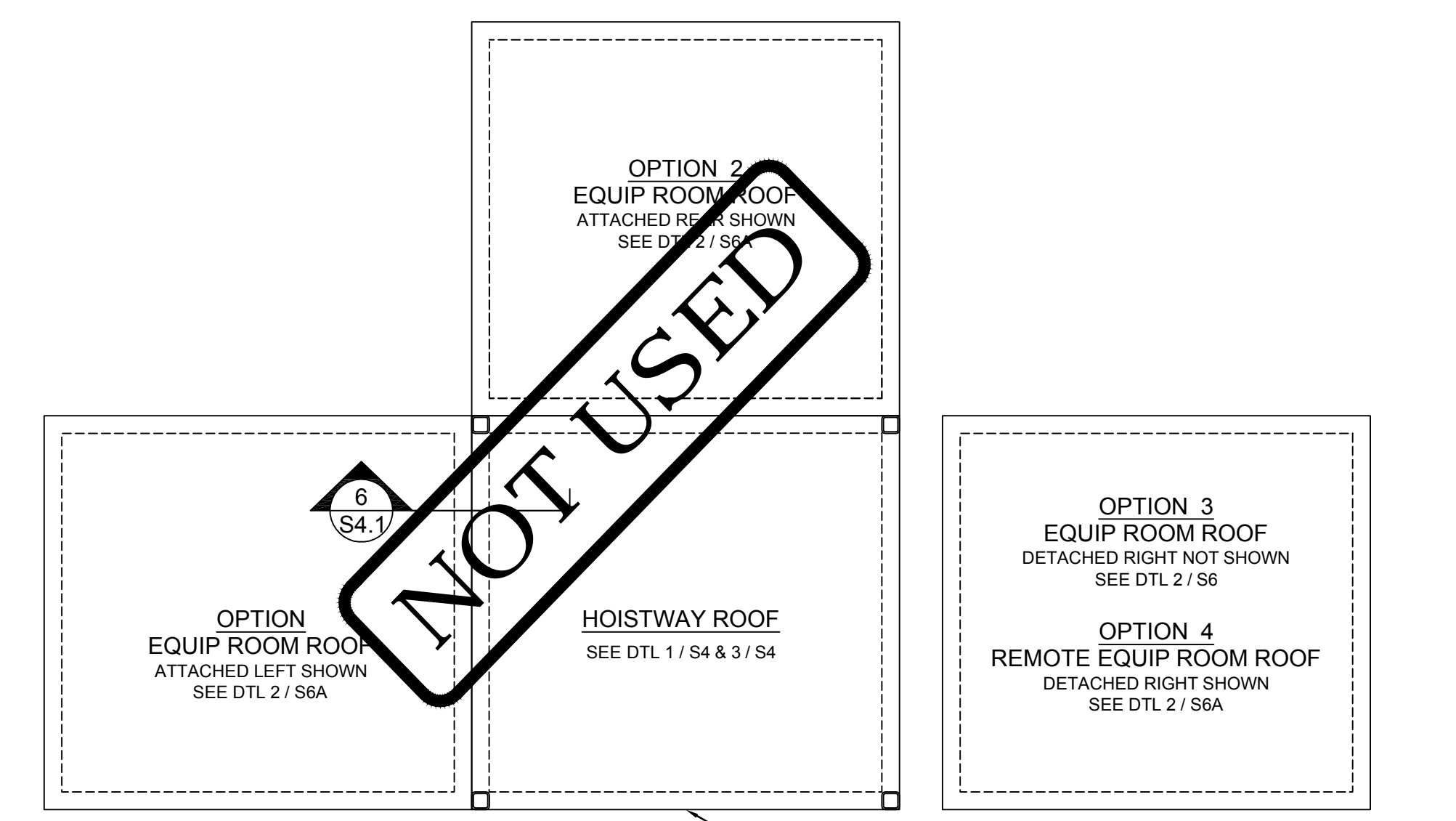
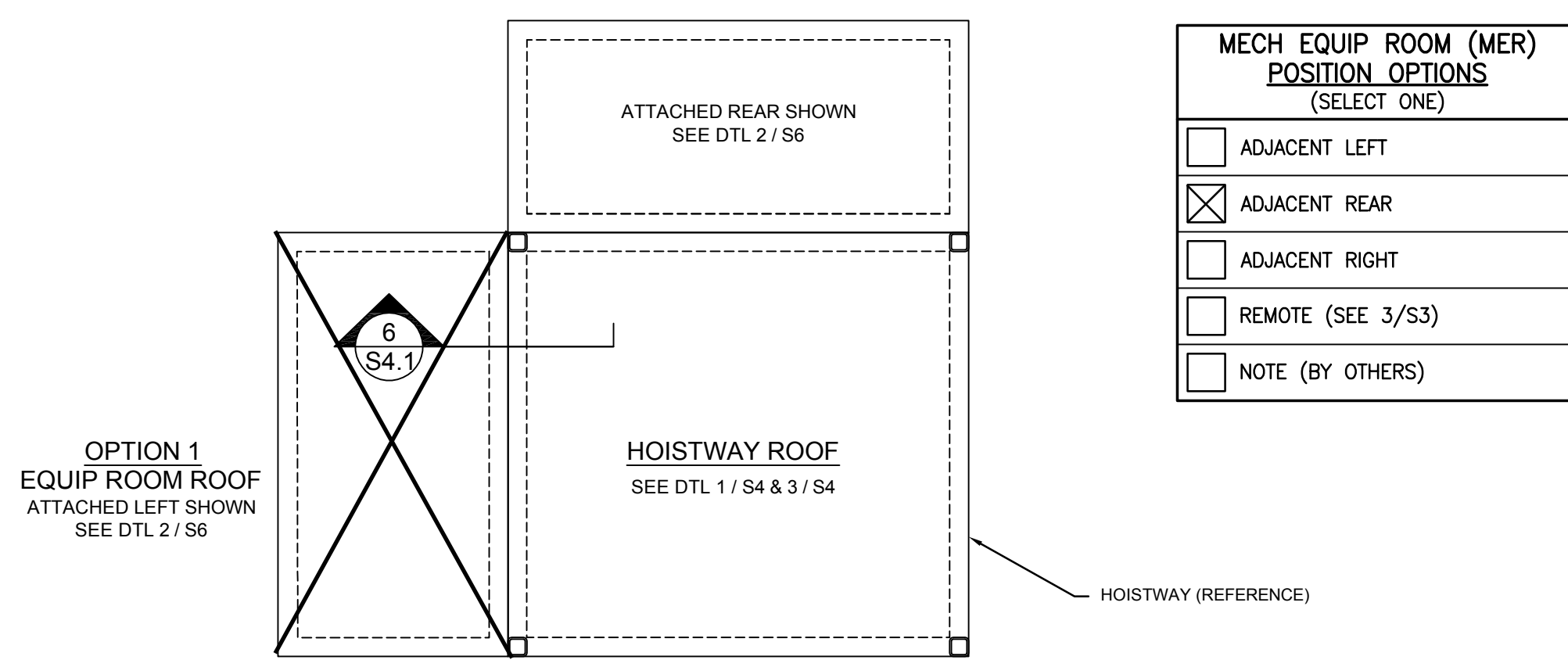
BID SET 10/01/2021

ROOF EMBELLISHMENT WT= $W_6$  MUST NOT EXCEED DIMS SHOWN. ROOF EMBELLISHMENT WT INCLUDES ALL ELEMENTS FOR THE EMBELLISHMENT LOCATED OUTSIDE OF & ABY THE EXTR SURFACES OF THE MODULAR ELEVATOR SHAFT. HR SHALL NOT EXCEED MAX HT ABY 1ST FLR SHOWN IN TABLE 4. SEE NOTE 9 FOR MER ROOF EMBELLISHMENT.

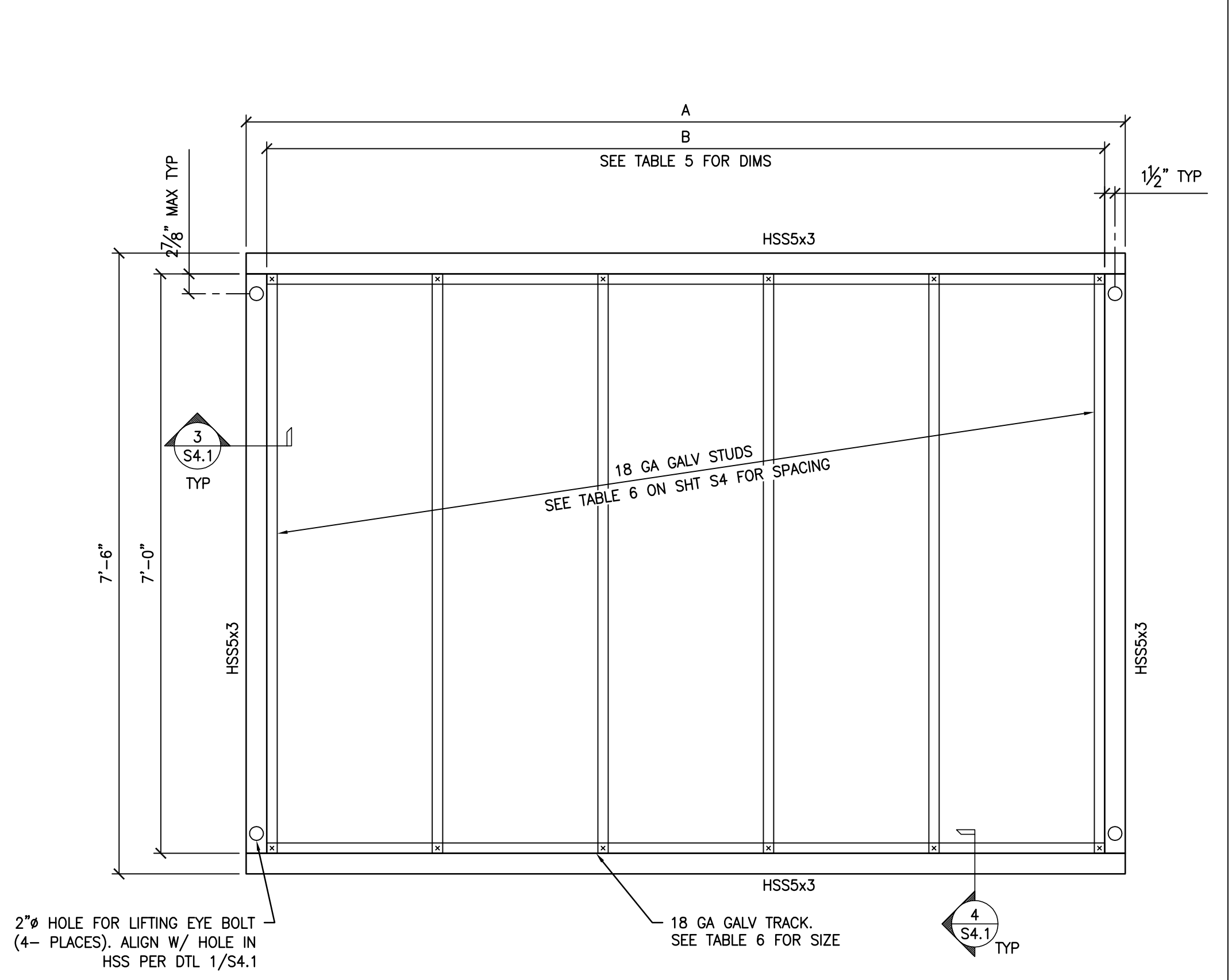


NOTE: SEE TABLE 4 FOR EMBELLISHMENT INFO.

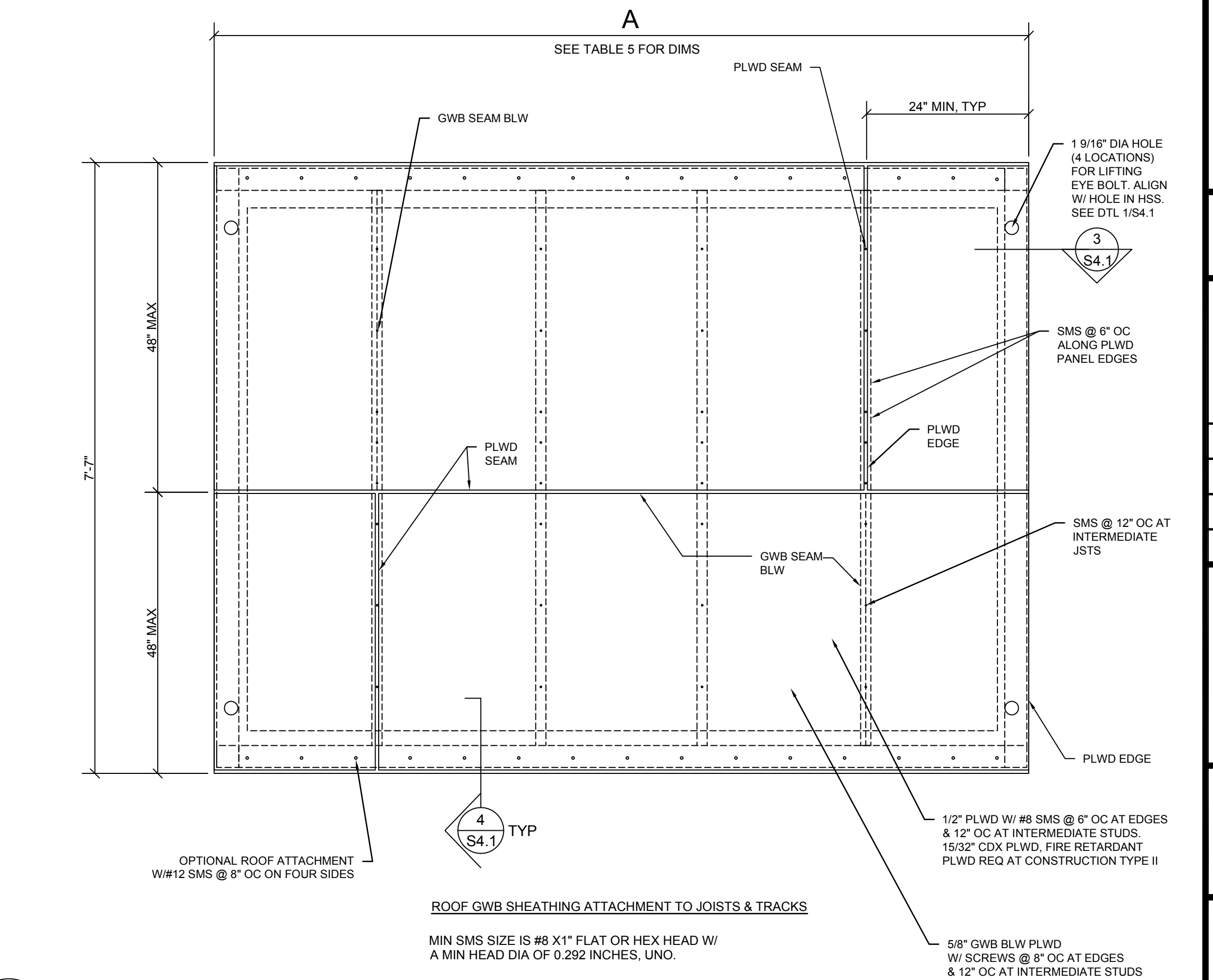
**4** S4 EMBELLISHMENT LAYOUT NTS



**2** S4 ROOF PLAN CONFIGURATION OPTIONS NTS



**3** S4 HOISTWAY ROOF FRAMING PLAN SEE TABLE 5 FOR DIMENSIONS NTS



**1** S4 HOISTWAY ROOF SHEATHING PLAN SEE TABLE 5 FOR DIMENSIONS NTS

**TABLE 4 - HOISTWAY EMBELLISHMENT**

EMBELLISHMENT LEVEL	MAX HT ABY 1ST FLR (FT)	MAX HT ABY 1ST FLR (FT)	MAX EMBELLISHMENT WEIGHT (LB)
	9' TOWER	44' TOWER	SEE NOTE 4 & 8 BLW
FIRST	H1 = 10	H1 = 10	600
INTERMEDIATE	H2 = 30	H2 = NA	600
TOP	H3 = 43	H3 = 30	600
ROOF	HR = 58	HR = 48	1200

**TABLE 5 - ROOF DIMENSIONS**

	HW-1	HW-2	HW-3
A	8'-0"	9'-3"	9'-11"
B	7'-6 1/4"	8'-6 1/4"	9'-2 1/4"

**TABLE 6 - JOIST SIZING**

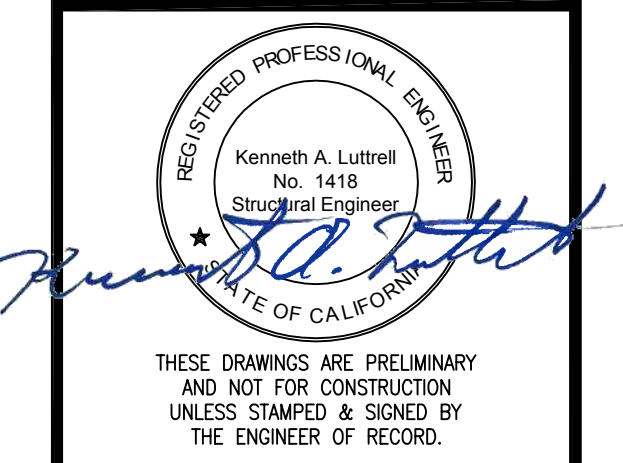
SELECT	ROOF LOAD (PG <-)	SPACING	SIZE	SSMA DESIGNATIONS	USE
HOISTWAY ROOF & EQUIP ROOM ROOF JOIST & TRACK SELECTOR - SPAN = 7'-0"					
☒	20 PSF	16" OC	3 1/2	350S162-43	JOIST
	45 PSF *	16" OC	3 1/2	350S162-43	JOIST
	45 PSF *	-	3 1/2	350T150-43	RIM TRACK
EQUIP ROOM ROOF JOIST & TRACK SELECTOR - SPAN = 9'-6" MAX					
☒	20 PSF	12" OC	3 1/2	350S162-43	JOIST
	45 PSF *	12" OC	3 1/2	350S162-54	JOIST
	45 PSF *	-	3 1/2	350T150-43	RIM TRACK
☐	45 PSF *	-	3 1/2	350T150-54	RIM TRACK

- ITEMS TO BE PROVIDED BY SITE APPLICATION ARCHITECT AND / OR ENGINEER OF RECORD**
- ATTACHMENTS OF FINISH MATERIAL BY OTHERS.
  - EMBELLISHMENTS (FOR MAIN ELEVATOR SHAFT ONLY) MUST ATTACH TO STRUC STL COLS & BMS ONLY & NOT TO LIGHT GAUGE MEMBERS. THIS RESTRICTION DOES NOT APPLY TO WALL FINISHES.
  - MAX TOTAL WT OF EXTR WALL FIN = 400 LBS PER FT, SEE "HEAVY CLADDING NOTE ON SHT S2.
  - 3 1/2" STUD WALL CONSTR OPTIONS ARE FIRE-RATED CONSTR, SEE 1/S5.3. 5/8" GWB TYPE X APPLIED TO INTR & EXTR, PARALLEL OR AT RIGHT ANGLES TO STUDS OR STUCCO ON EXTR & 5/8" GWB APPLIED TO INTR. ALL GWB ATTACHED W/ 1" TYPE S DRYWALL SCREWS 8" OC ON VERT EDGES & 12" OC ON INTERMEDIATE STUDS PER UL DESIGN NO. 419 OR U434.
  - FIRE-RATED CONSTR MAY NOT BE REQ WHEN THE ELEVATOR SHAFT DOES NOT PENETRATE FLRS, WHERE THE OPNGS DO NOT ENTER DIRECTLY INTO ANOTHER STRUCTURE & WHEN THE SHAFT IS LOCATED FURTHER THAN 10'-0" FROM A PROPERTY LINE, PER CBC 712.1.
  - EXTR FIN & FLASHING DTLS TO BE SPECIFIED BY PROJECT ARCH AND ARE BY OTHERS. HORIZ REVEAL / JT SHALL BE PROVIDED AT LOCATION OF HORIZ HSS IN EXTR FIN.
  - APPROVAL FOR SPECIFIC EMBELLISHMENT CONFIGURATION MUST BE OBTAINED ON SITE SPECIFIC APPLICATION.
  - CALCULATIONS ASSUME A MAX OF 20 PSF TOTAL WALL WT, INCLUDING CLADDING. EMBELLISHMENT WTS ARE IN ADDITION TO THE WALL WT.
  - MODULAR EQUIP ROOM ROOF EMBELLISHMENT TO MEET SAME DIMENSION RESTRICTIONS AS ELEVATOR SHAFT ROOF EMBELLISHMENT EXCEPT MAX HT IS 4'-0" & MAX WT IS 600 LBS. CONSTRUCTION & ATTACHMENT OF EMBELLISHMENT TO MACHINE ROOM IS NOT PART OF THIS PROJECT & IT IS SUBJECT TO THE LIMITATIONS SHOWN ON THIS NOTE 12.
  - MAX FLR EMBELLISHMENT PROJECTION IS 3'-0" FROM FACE OF HOISTWAY WALL.
  - 2-HOUR FIRE-RATED WALL ASSEMBLY WILL CONSIST OF 2 LAYERS OF 5/8" THK TYPE X FIRE-RATED GWB INSIDE & OUTSIDE OF TOWER UTILIZING 3 1/2" STUDS. ASSEMBLY IS BASED UPON U.L. DESIGN NO. U419.
  - SECONDARY FRMG SHALL BE PROVIDED TO SUPPORT EMBELLISHMENT. ATTACHMENT OF SECONDARY FRMG TO HORIZ HSS OR MTL STUD IS NOT PERMITTED. THIS WORK IS NOT PART OF THIS APPLICATION.

TABLE 6 NOTE: \* MAX ROOF SNOW LOAD INCLUDING DRIFT LOADS

NO.	DATE	REVISION

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P.O. BOX 3998  
CHATSWORTH, CA. 91313  
800-755-9359

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PROJECT NO: 16093  
DATE: 10/19/2018

ENGINEERED BY: KAL  
DRAWN BY: MTC

FILE NO. PC-MEM  
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OFFICE OF REGULATION SERVICES  
APPL. 03-118291  
AC:MP FL:EB SS:MC/MK  
DATE 11/3/2018  
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SHEET NAME:  
**HOISTWAY ROOF PLAN**

SHEET NO:  
**S4**

BID SET 10/01/2021

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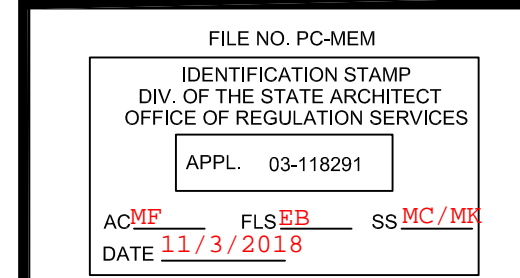
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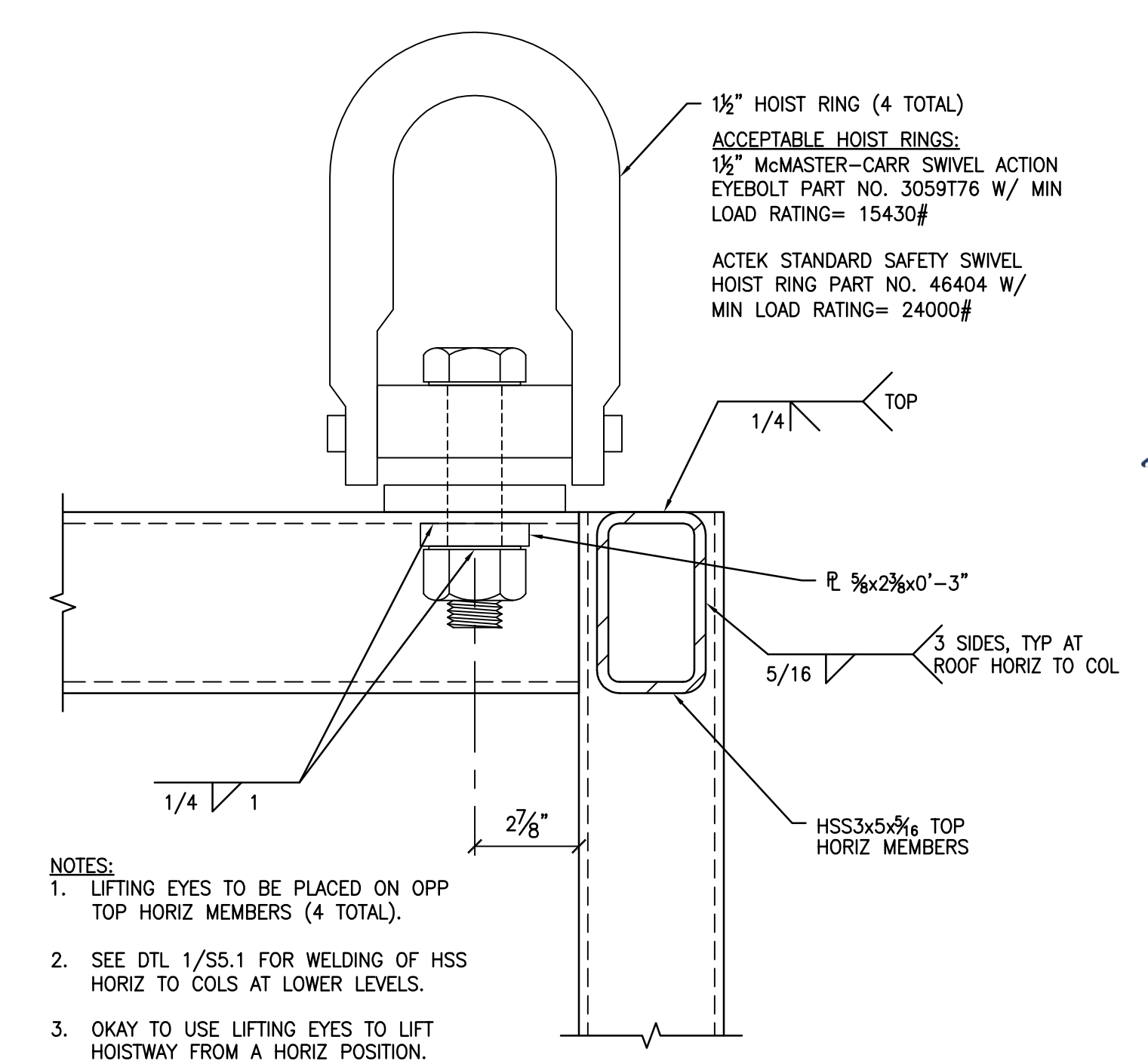
SHEET NAME:

HOISTWAY & ROOF DETAILS

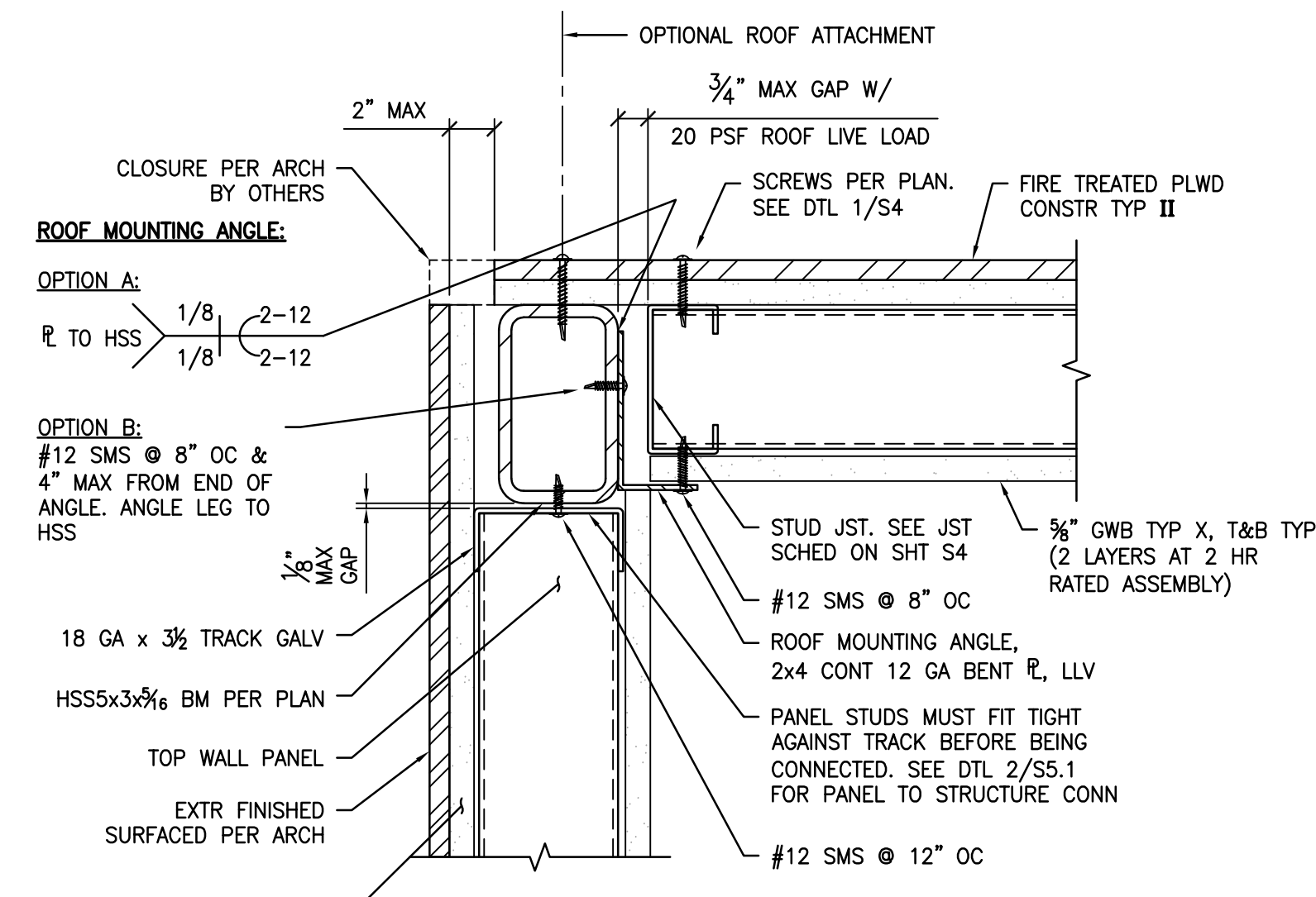
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**S4.1**

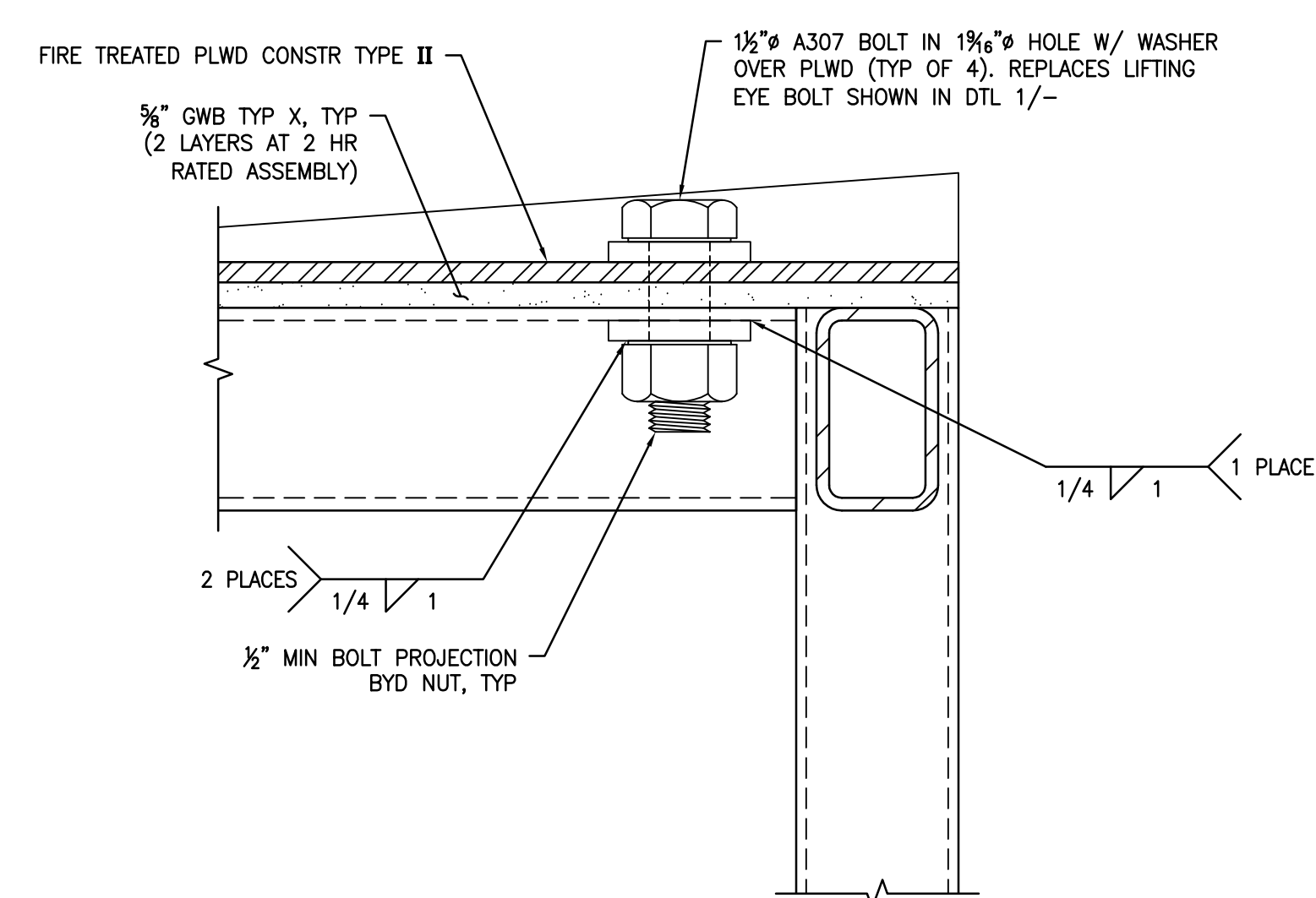
BID SET 10/01/2021



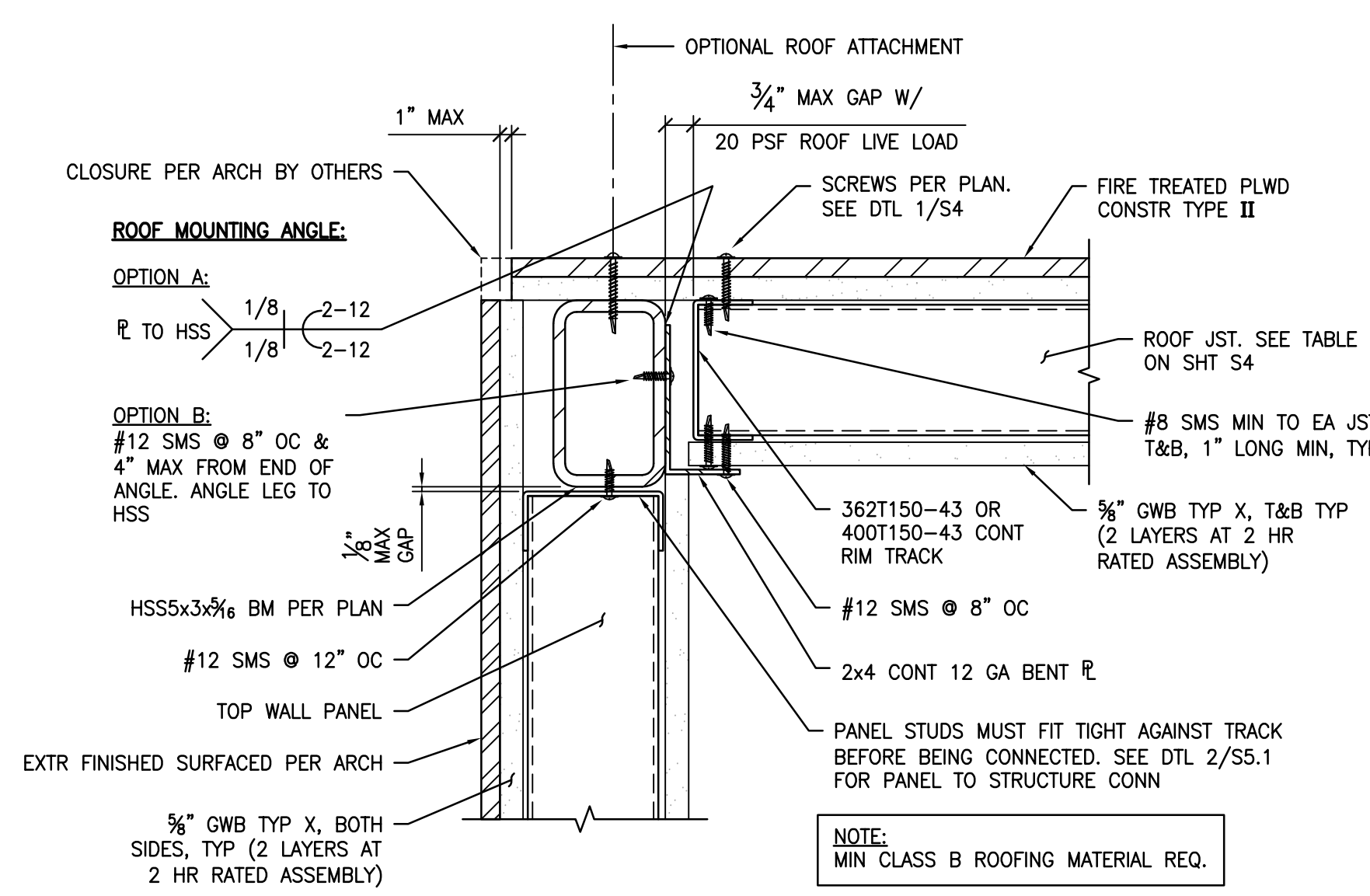
1  
 S4.1  
 3" = 1'-0"



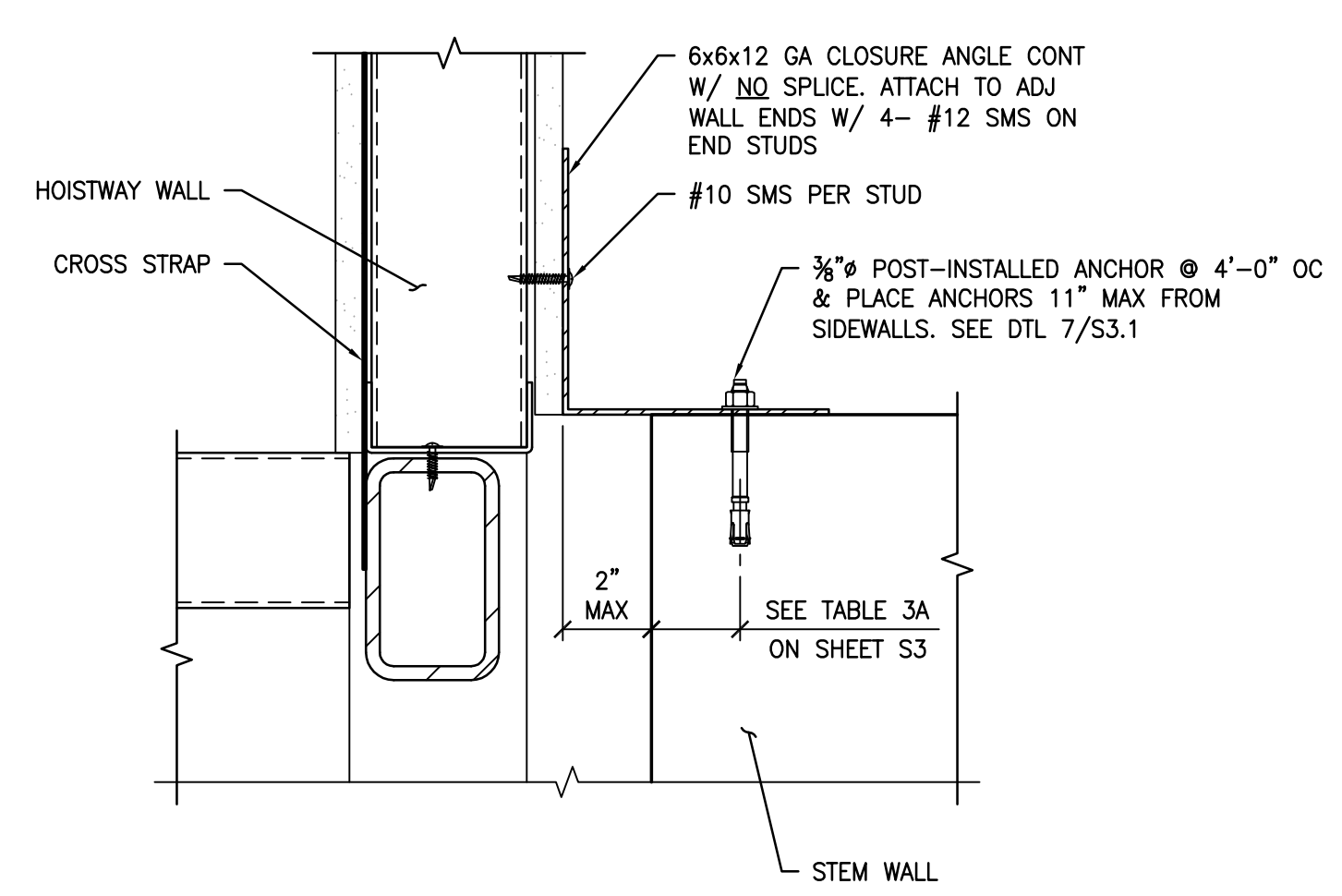
3  
 S4.1  
 3" = 1'-0"



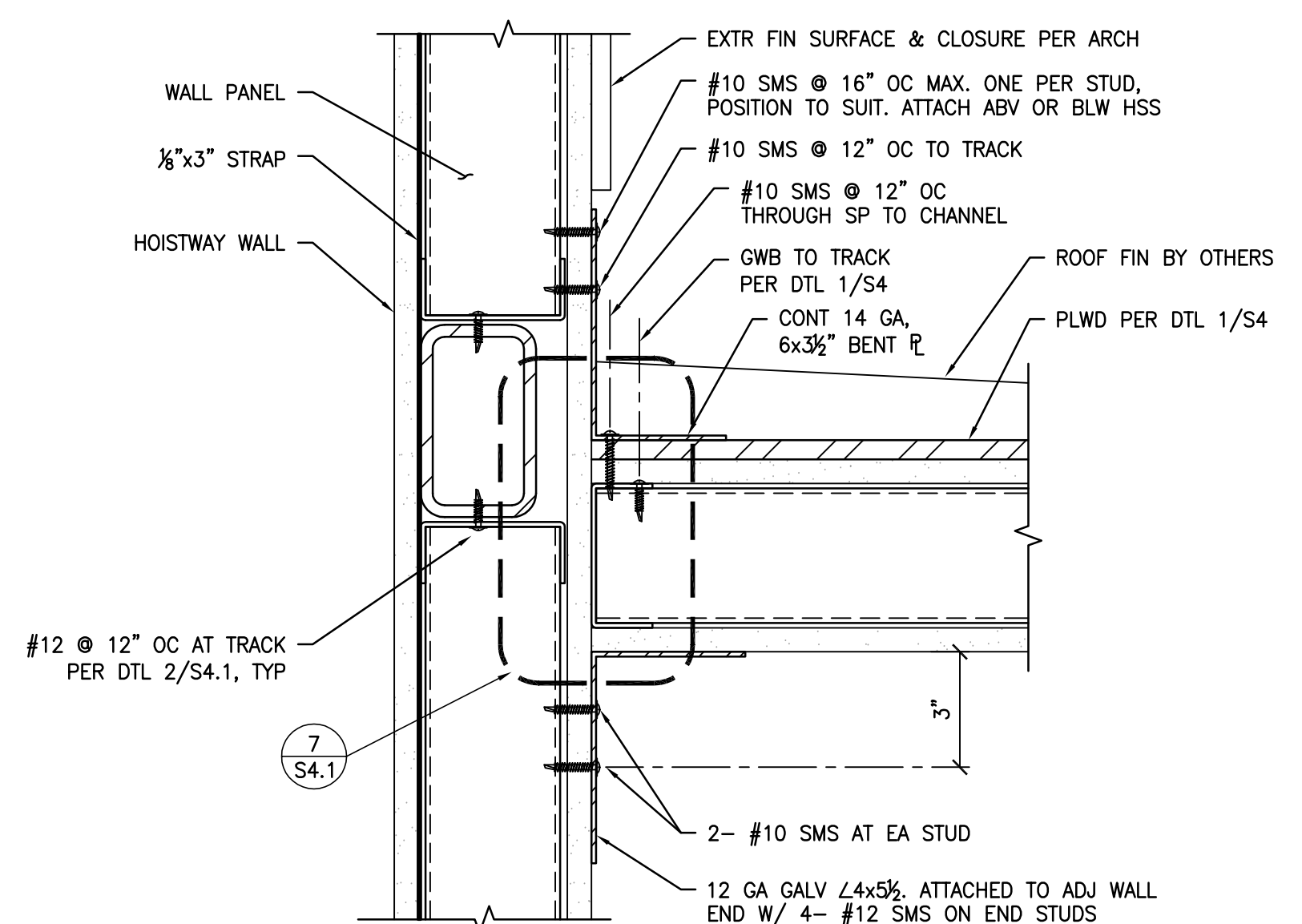
2  
 S4.1  
 3" = 1'-0"



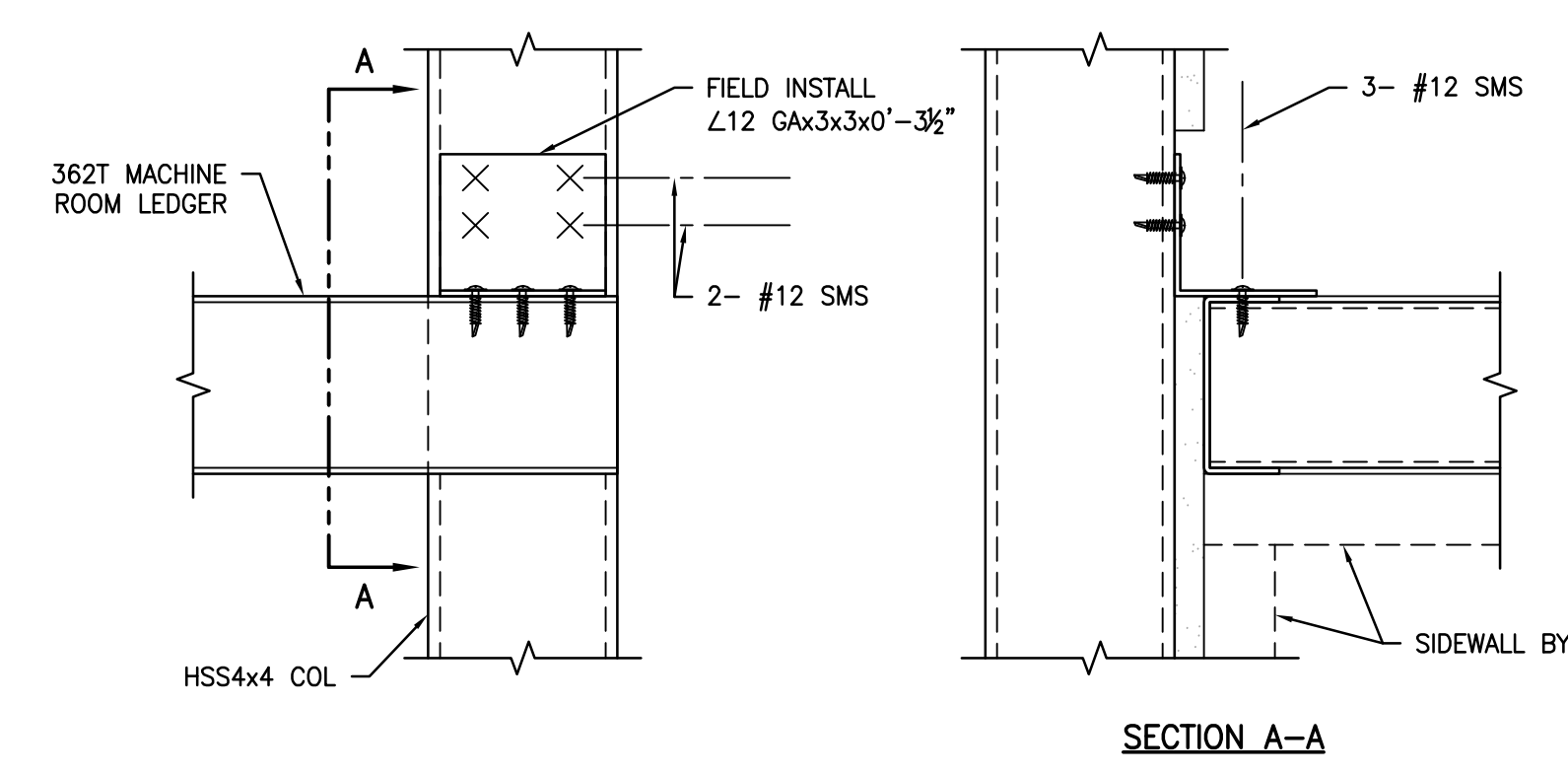
4  
 S4.1  
 3" = 1'-0"



5  
 S4.1  
 3" = 1'-0"

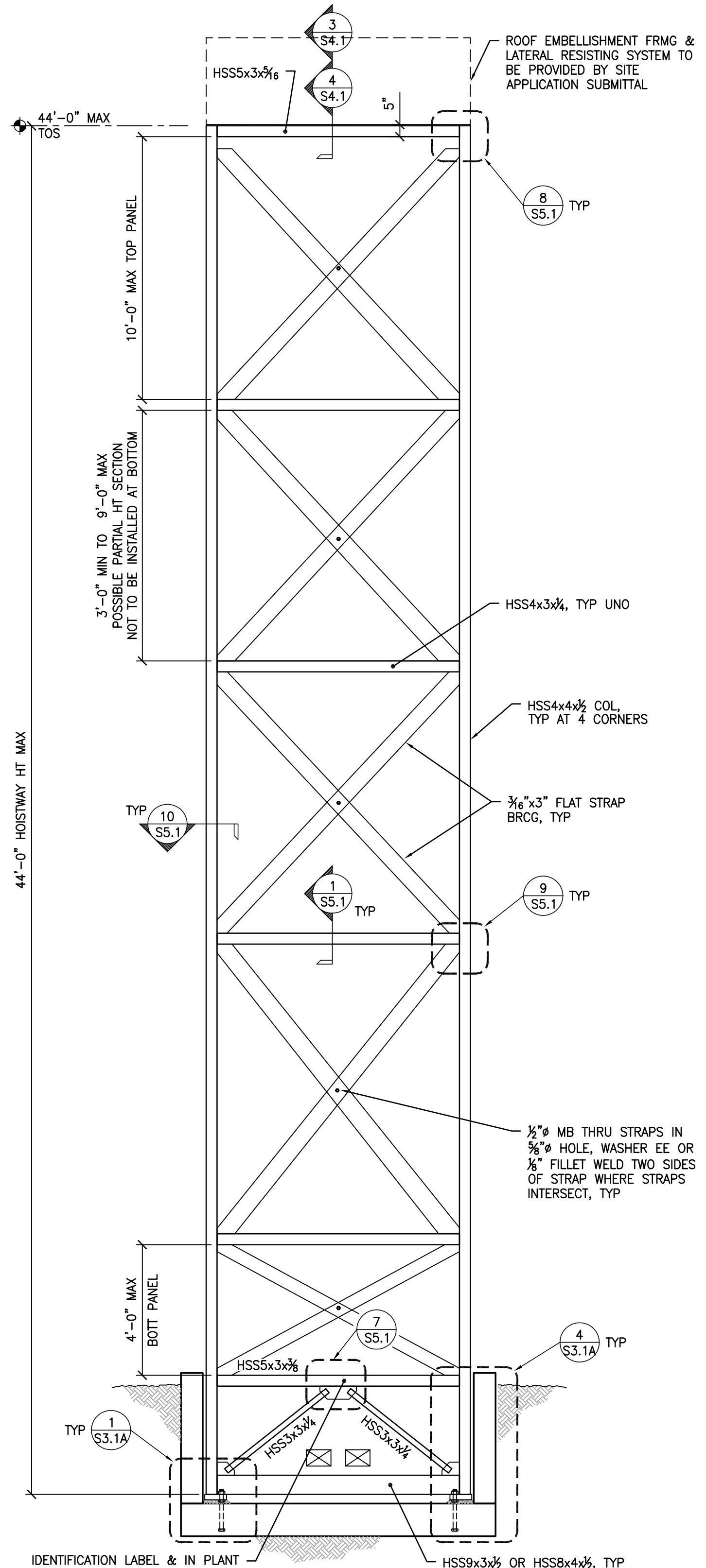


6  
 S4.1  
 3" = 1'-0"



7  
 S4.1  
 3" = 1'-0"

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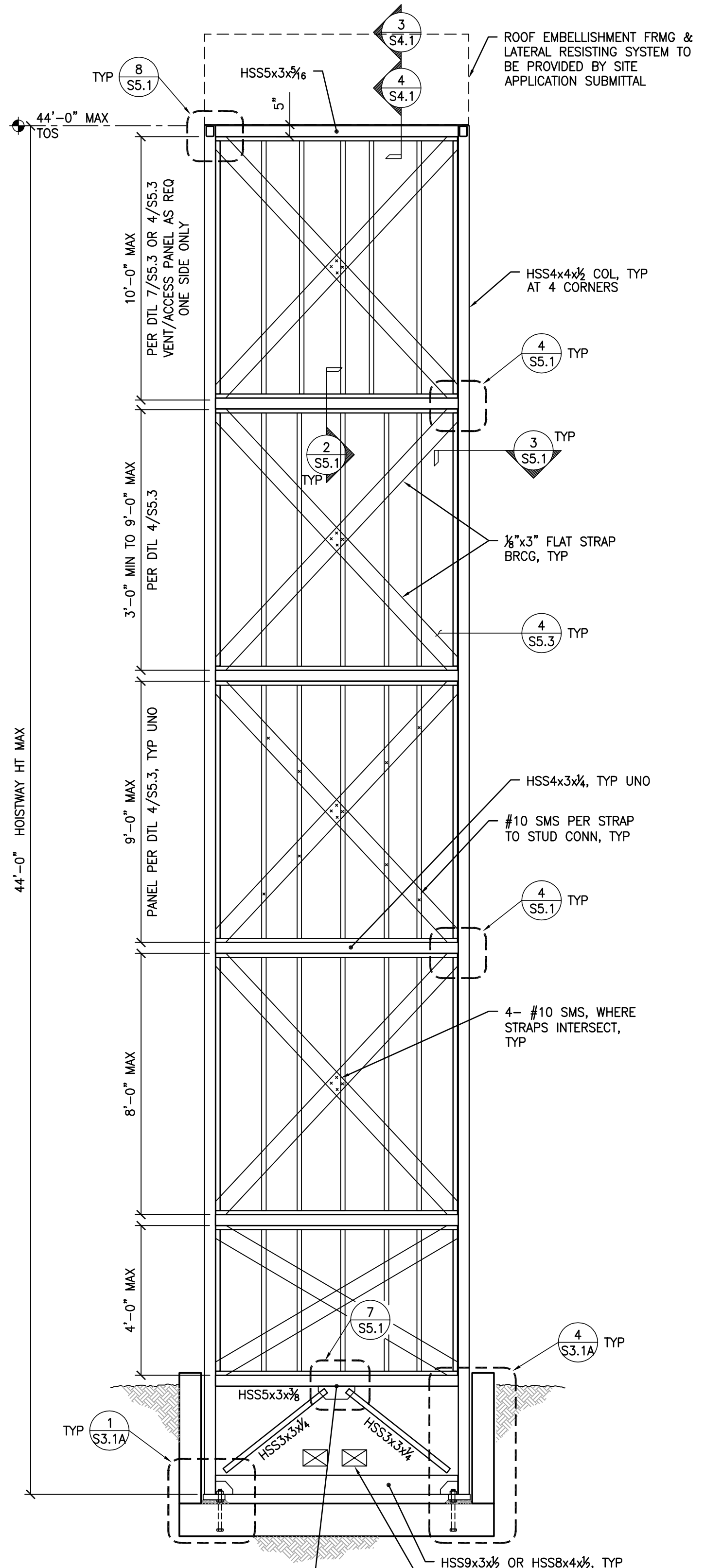


**HOISTWAY WALL - NON-RATED WALL ELEVATION**

7 S5A NTS MAX 44'-0" TOWER HT FOR 26'-0" TRAVEL

**NOTES:**

- GLASS WALL TO BE PROVIDED & INSTALLED BY OTHERS. SEE NOTES ON SHT S4.
- WALL CONFIGURATION CAN BE UTILIZED ON ANY NON-ENTRANCE SIDE OF HOISTWAY.
- PANEL ARRANGEMENT TO SUIT HOISTWAY HT & FLR LEVELS.
- FOR MAX DISPLACEMENT, SEE SCHED 3/S5A.
- FOR RATED HOISTWAY WALLS, SEE ELEV 6/S5A.
- ELEVS OF HORIZ HSS ON ALL SIDES EXCEPT FACE A, THE FRONT ENTRANCE SIDE, SHALL BE THE SAME.

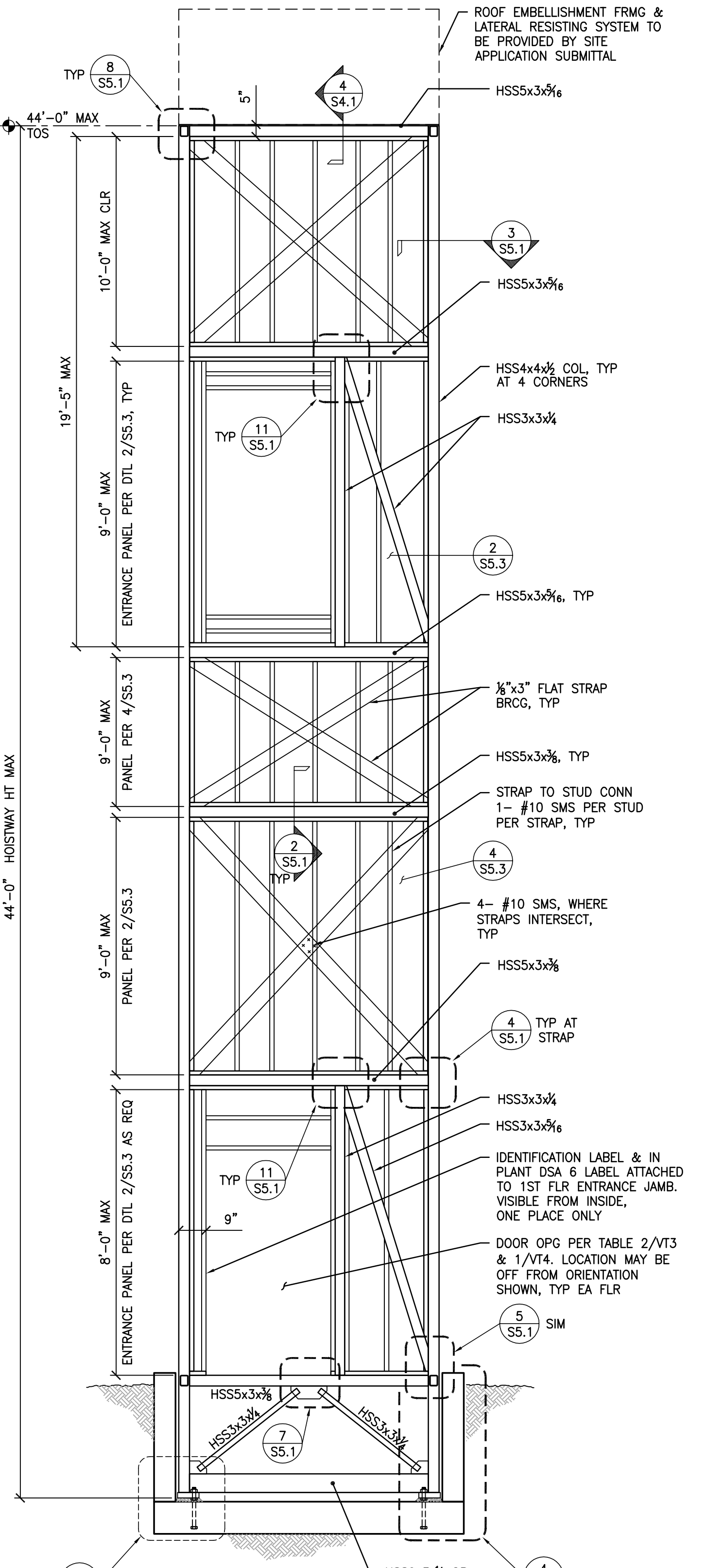


**HOISTWAY WALL - RATED SIDE WALLS ELEVATION**

6 S5A NTS MAX 44'-0" TOWER HT FOR 26'-0" TRAVEL

**NOTES:**

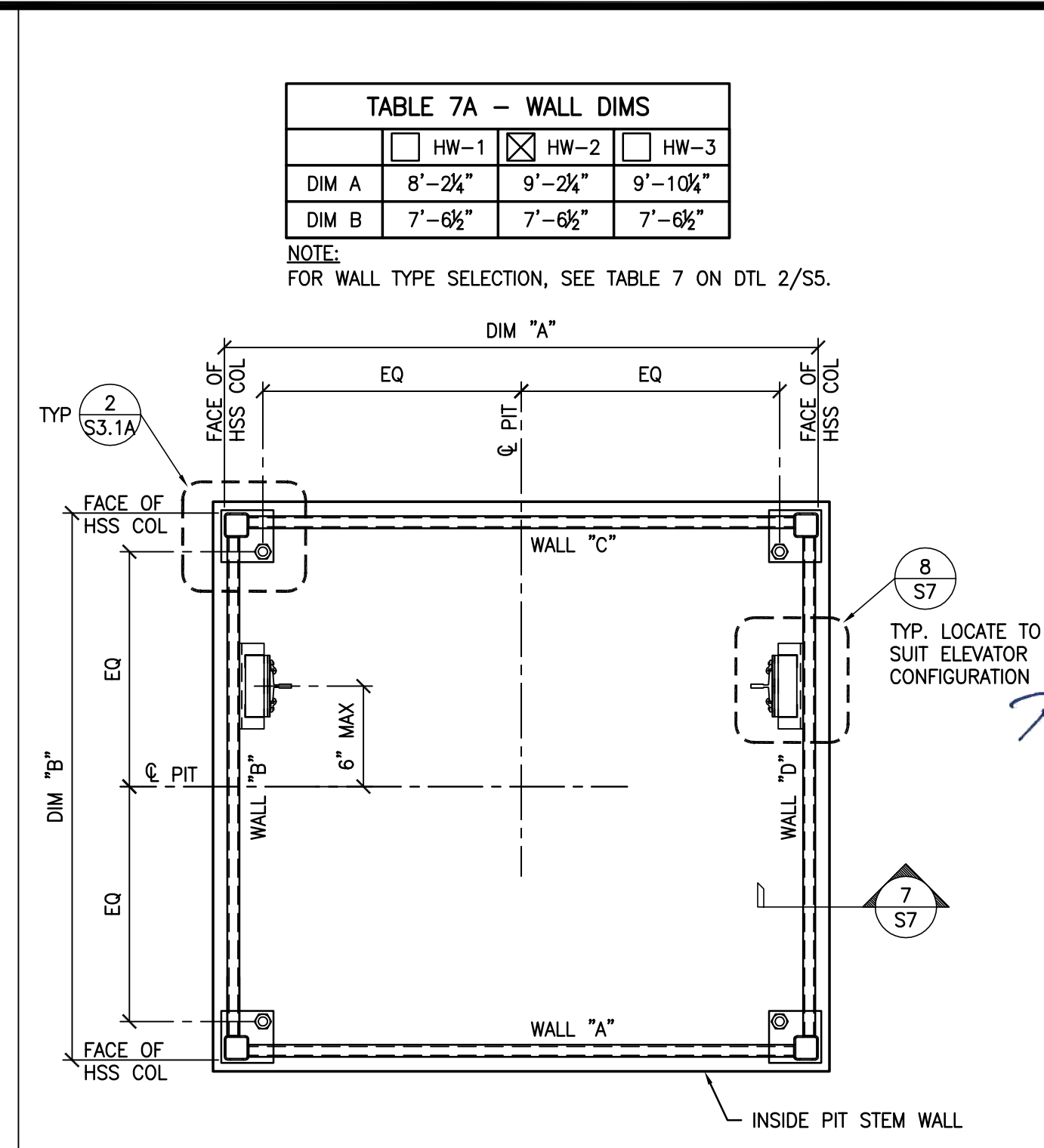
- WALL CONFIGURATION CAN BE UTILIZED ON ANY NON-ENTRANCE SIDE OF HOISTWAY.
- FOR NON-RATED OR GLASS WALL CONDITION SEE ELEV 7/S5A.
- ELEVS OF HORIZ HSS ON ALL SIDES EXCEPT FACE A, THE FRONT ENTRANCE SIDE, SHALL BE THE SAME.



**HOISTWAY WALL W/ ENTRANCE END WALL ONLY ELEVATION**

5 S5A NTS MAX 44'-0" TOWER HT FOR 26'-0" TRAVEL

**NOTE:** PANEL ARRANGEMENT TO SUIT HOISTWAY HT & FLR LEVELS.



**1 S5A** HOISTWAY PLAN  
1/2" = 1'-0"

**2 S5A** NTS

**TABLE 7 - WALL SELECTOR**

WALL	ENTRANCE 5/S5	TYP 6/S5	NON-RATED 7/S5
A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**NOTES:**

- SELECT ONLY ONE (1) WALL TYPE PER SIDE. ENTRANCE WALLS MAY NOT BE ADJ.
- ARCH TO FILL OPEN BOXES AS APPLICABLE.
- DTL 5/S5A DOES NOT APPLY AT FACES B, C OR D.

**3 S5A** NTS

**MAX DISPLACEMENT**

STORY	WIND	SEISMIC $\delta_x$
ROOF	0.4"	4.1"

**NOTE:** ELEVATOR TOWER SHALL BE SEPARATED FROM ADJ STRUCTURE SUCH THAT THE DISTANCE IS EQ TO THE SQ ROOT OF THE SUM OF THE SQUARES OF  $\delta_x$  FOR BOTH STRUCTURES PER SECTION 12.8.6.

**DISPLACEMENT SCHEDULE**

**4 S5A** NTS

**HOISTWAY NOTES:**

- STUDS ARE NOT REQ WITHIN THE PIT.
- EXCEPT FOR ENTRANCE PANEL, IF THE CLR DIM BTW HORIZ HSS MEMBERS IS REQ TO BE > 9'-0", THEN AN ADDNL HORIZ MEMBER IS REQ MIDWAY BTW THE HSS MEMBERS SHOWN IN THE ELEV, W/ FLAT STRAP BRCG IN EA BAY.
- FOR ENTRANCE PANEL ONLY, IF THE CLR DIM BTW HORIZ HSS MEMBERS FOR PANELS ABV THE THRESHOLD OF THE 2ND OPG IS REQ TO BE > 9'-0", THEN AN ADDNL HORIZ MEMBER IS REQ BTW THE HSS MEMBERS SHOWN IN THE ELEV, W/ FLAT STRAP BRCG IN EA BAY, & A VERT HSS MEMBER IS REQ NEXT TO THE DOORWAY. MAX PANEL HT FOR PANELS ABV THE 2ND LEVEL SHALL BE 10'-0".
- VENTING OF HOISTWAY AS PER 2016 CBC SECTION 3004 SHAFTS HOUSING ELEVATORS EXTENDING THRU MORE THAN TWO FLR LEVELS SHALL BE VENTED TO THE OUTSIDE. THE AREA OF THE VENT SHALL NOT BE LESS THAN 3.5% OF THE AREA OF THE ELEVATOR SHAFT, PROVIDED A MIN OF 3 SQ FT PER ELEVATOR IS PROVIDED (BY OTHERS).
- IF LANDING BRIDGE OR LANDING AWNING IS REQ, SEE SHT S5.2.
- COLS TO BE CONT FOR FULL HT. NO SPLICES ALLOWED.
- ELEVATORS SERVE TWO STORIES OR LESS, SHAFT CONSTR NOT REQ IF COMPLIANT W/ CBC 712.1, OTHERWISE, SHAFT CONSTRUCTION PROVIDED PER 713.4.

**HOISTWAY NOTES**

NO.	DATE	REVISION

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER  
Kenneth A. Luttrell  
No. 1418  
Structural Engineer  
STATE OF CALIFORNIA

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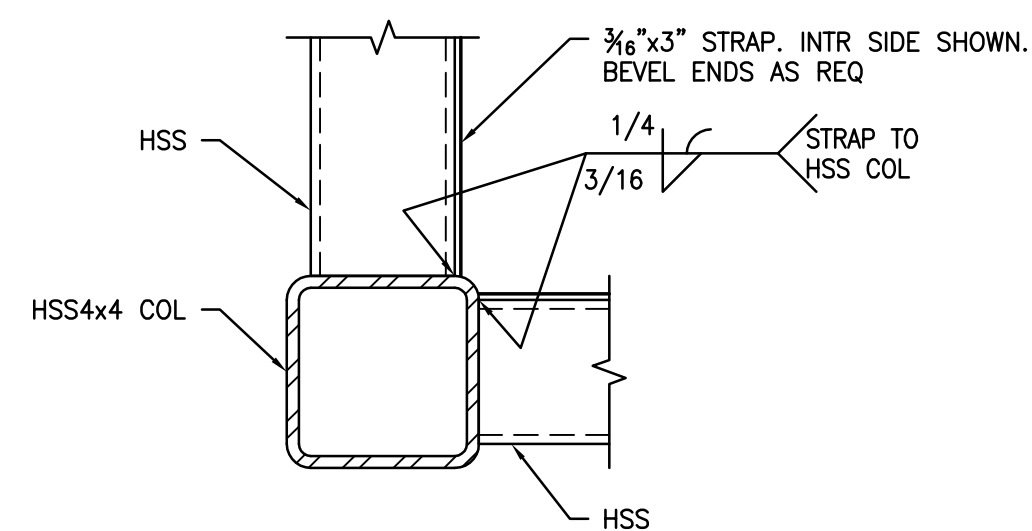
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**HOISTWAY PLAN & SECTIONS**  
MAX 44'-0" TOWER HT

SHEET NO:  
**S5A-1**

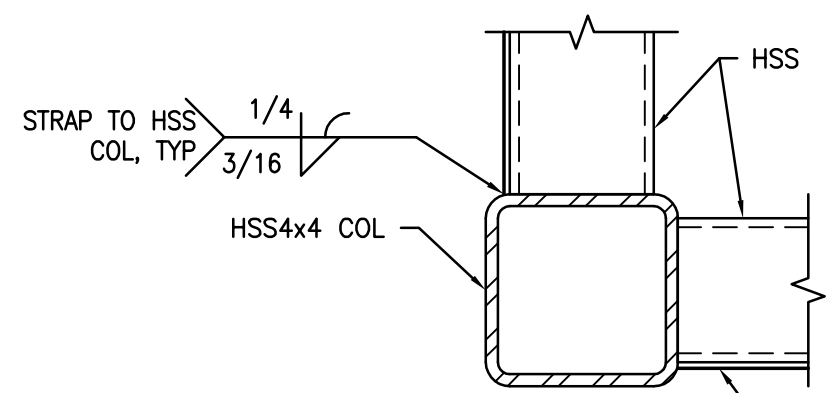
BID SET 10/01/2021



STRAP POSITION SELECTOR		
NON-RATED WALL ONLY		
<input checked="" type="checkbox"/> INTERIOR	<input checked="" type="checkbox"/> SIDE WALL	<input checked="" type="checkbox"/> END WALL
<input type="checkbox"/> EXTERIOR	<input type="checkbox"/> SIDE WALL	<input type="checkbox"/> END WALL



PLAN VIEW  
INTR STRAP CONFIGURATION



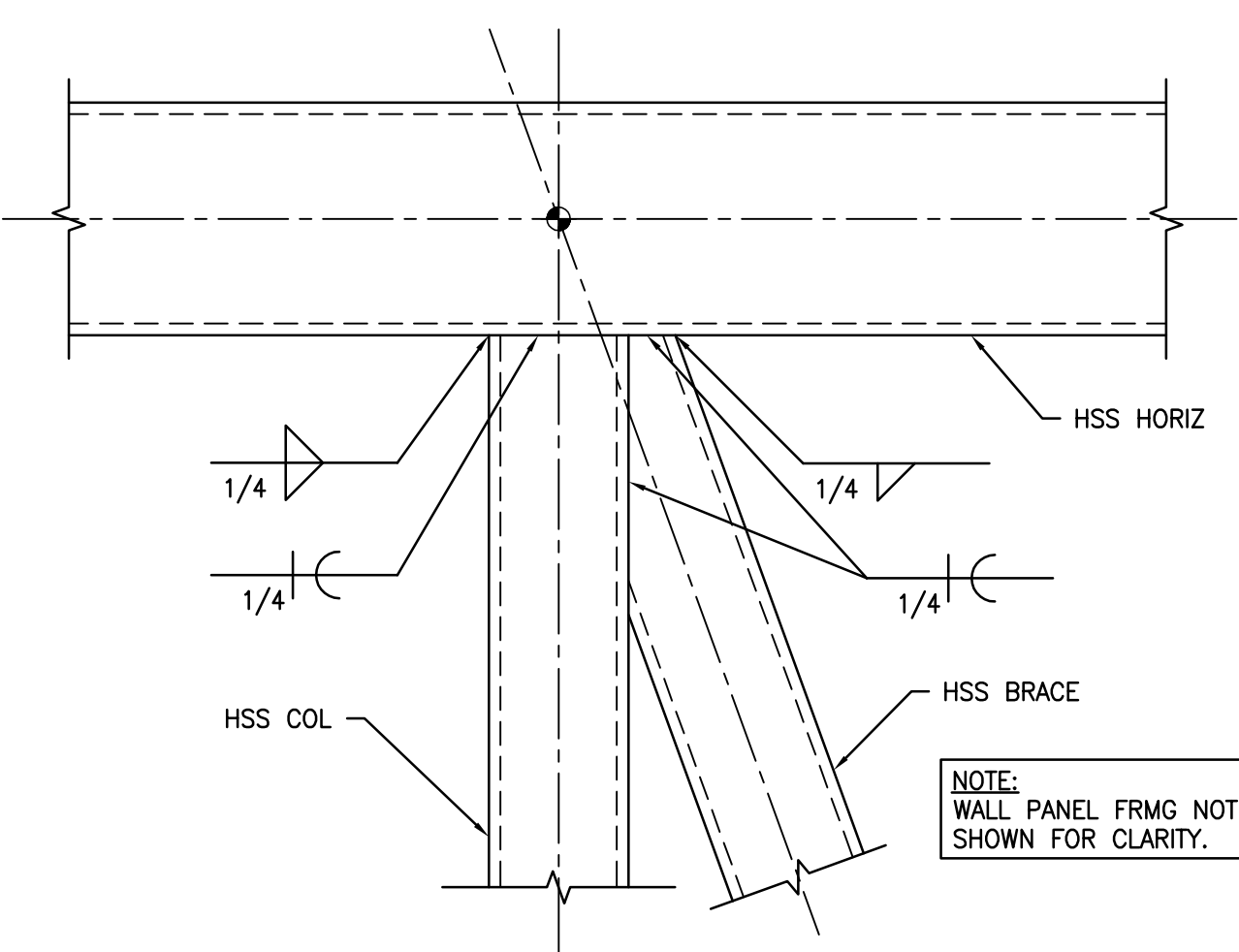
PLAN VIEW  
EXTR STRAP CONFIGURATION  
(OPTIONAL)

NOTE:  
FOR HSS TO COL CONN,  
SEE DTL 1/S5.1

NOTE:  
3/16"x3" STRAP, OPTIONAL  
EXTR SIDE SHOWN. BEVEL  
ENDS AS REQ.

COL AT NON-RATED WALL  
DETAIL

10  
S5.1



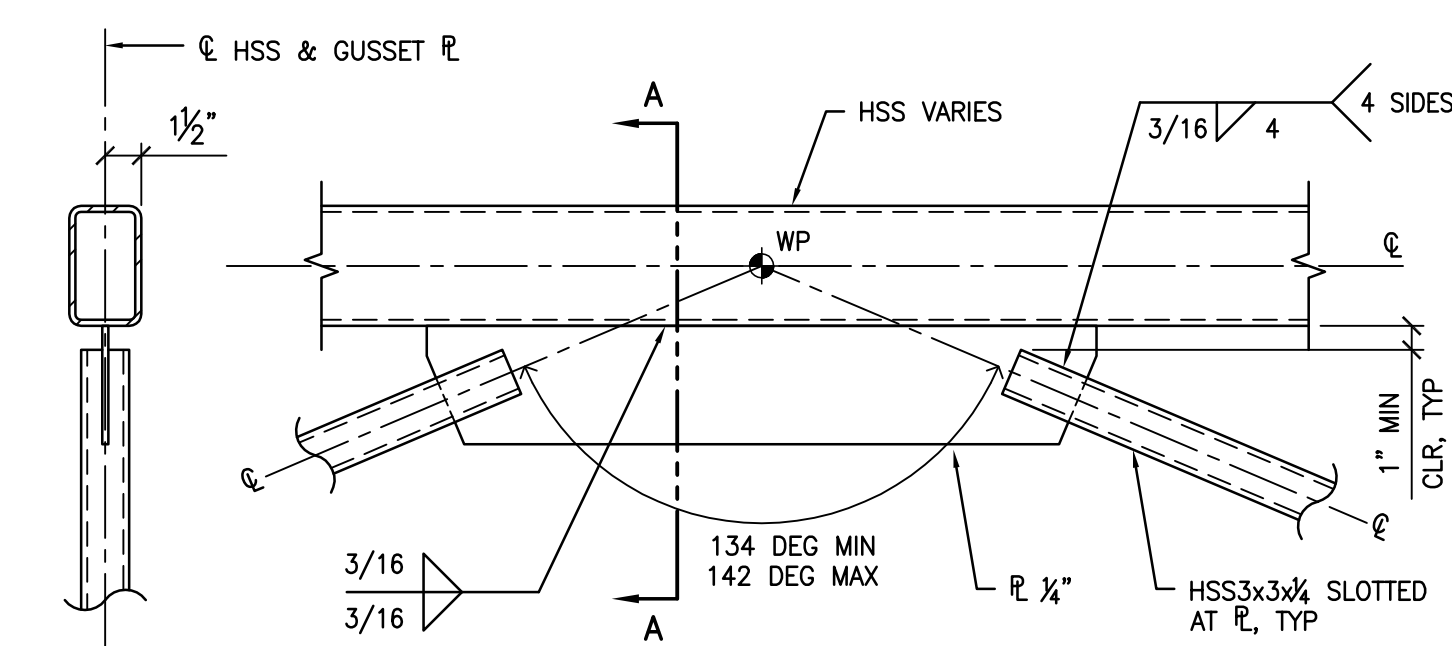
DOOR PANEL BRACE CONN  
DETAIL

11  
S5.1

NOT USED

DETAIL

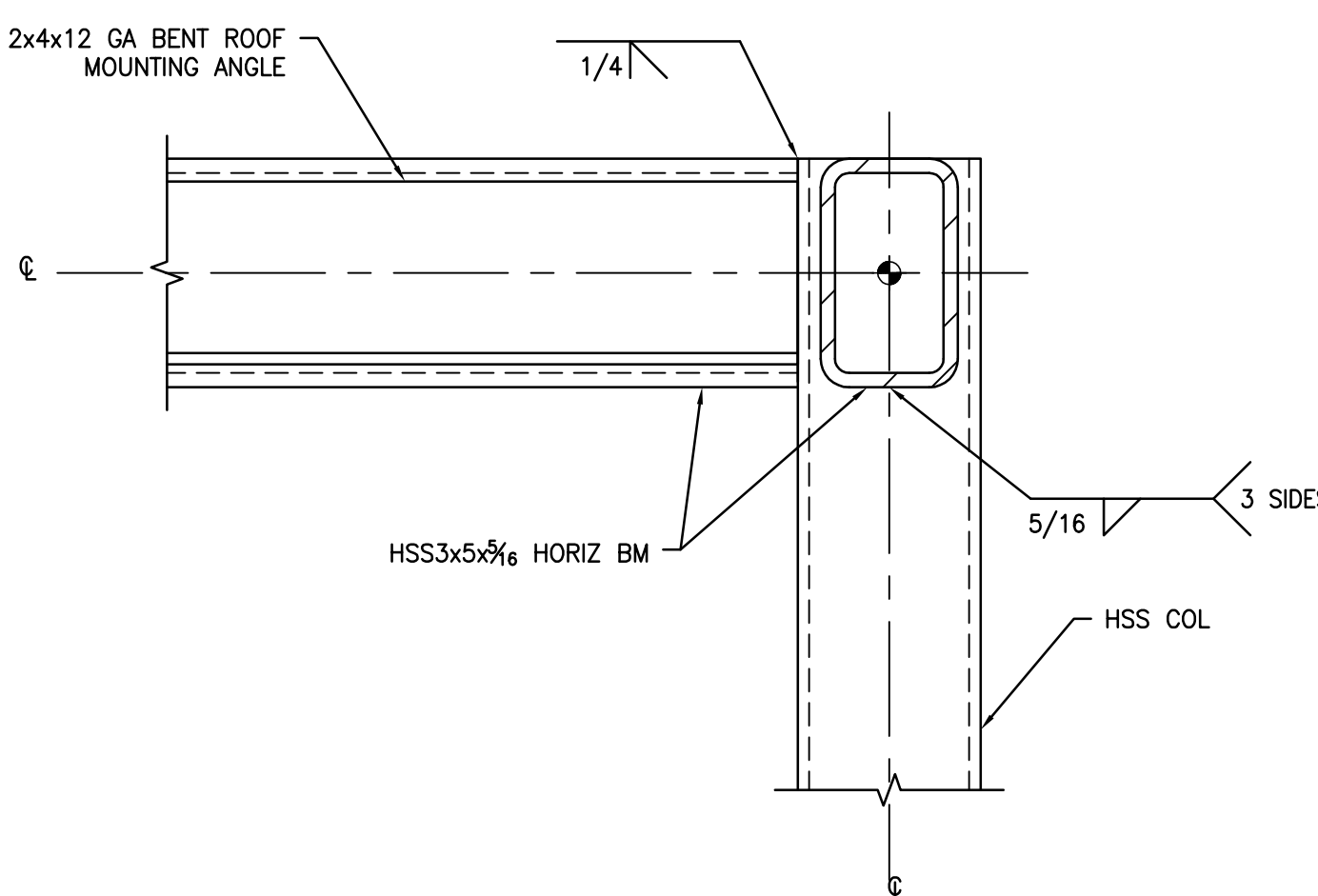
12  
S5.1



SECTION A-A

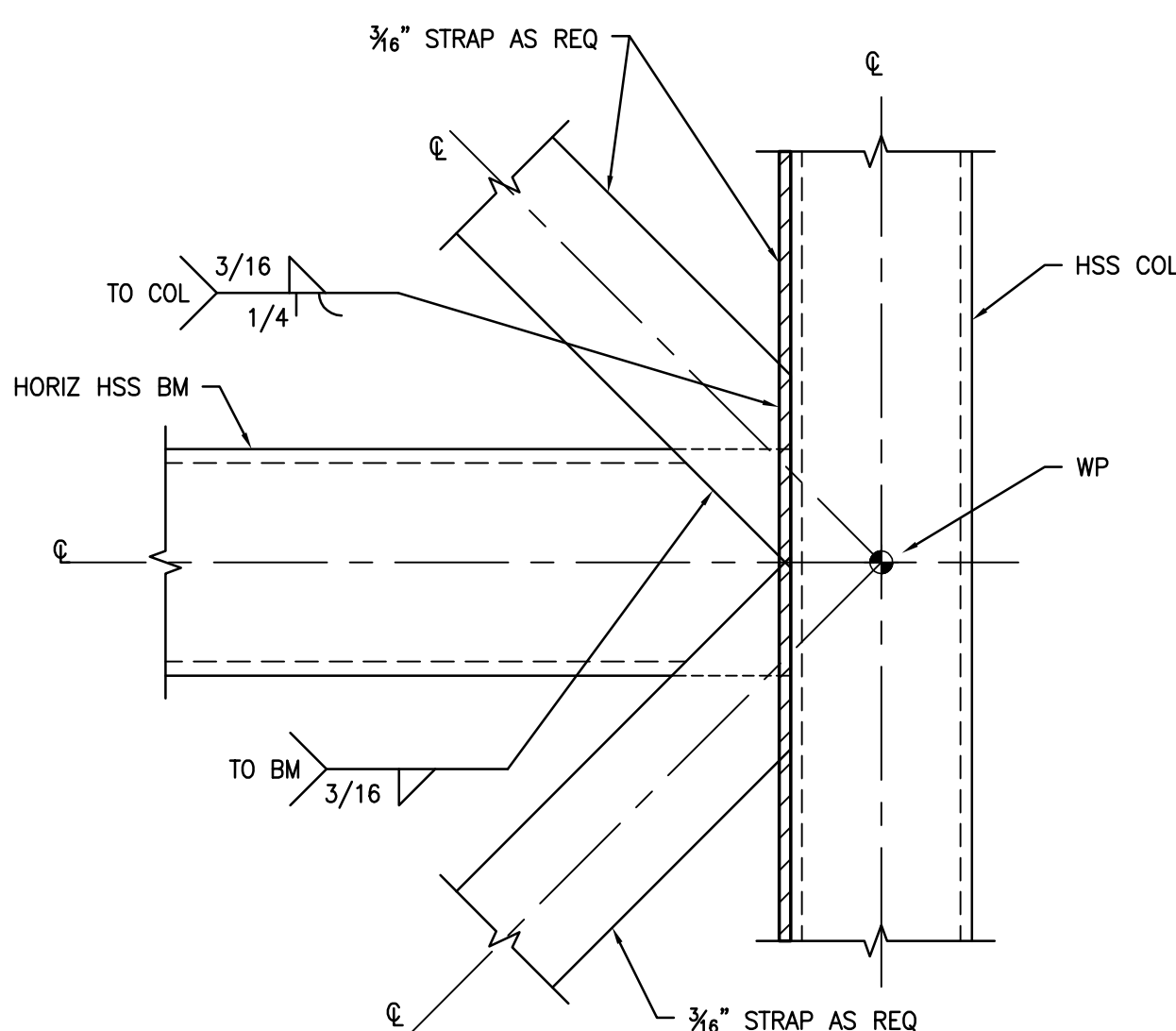
DIAG BRACES  
DETAIL

7  
S5.1



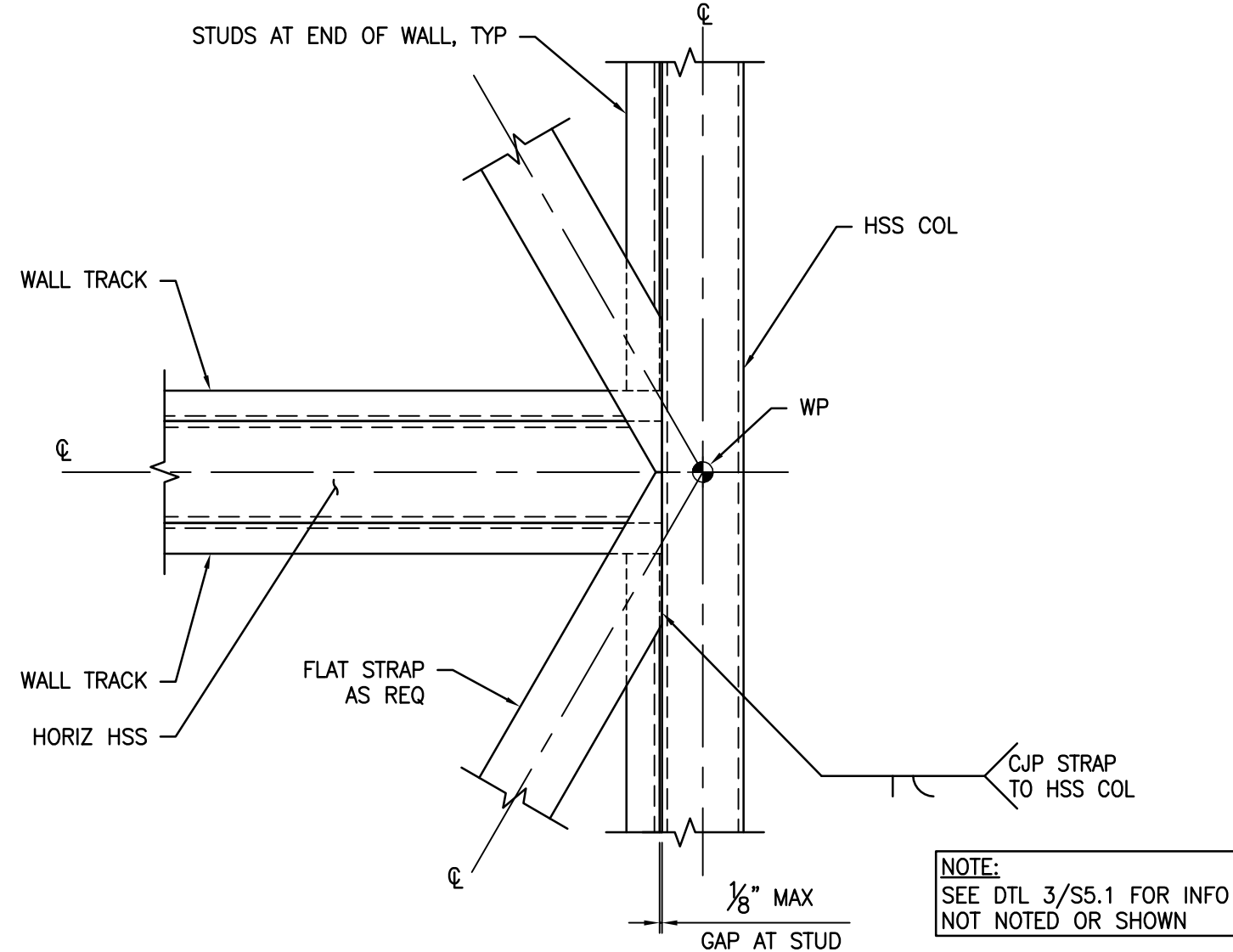
TOP CORNER  
DETAIL

8  
S5.1



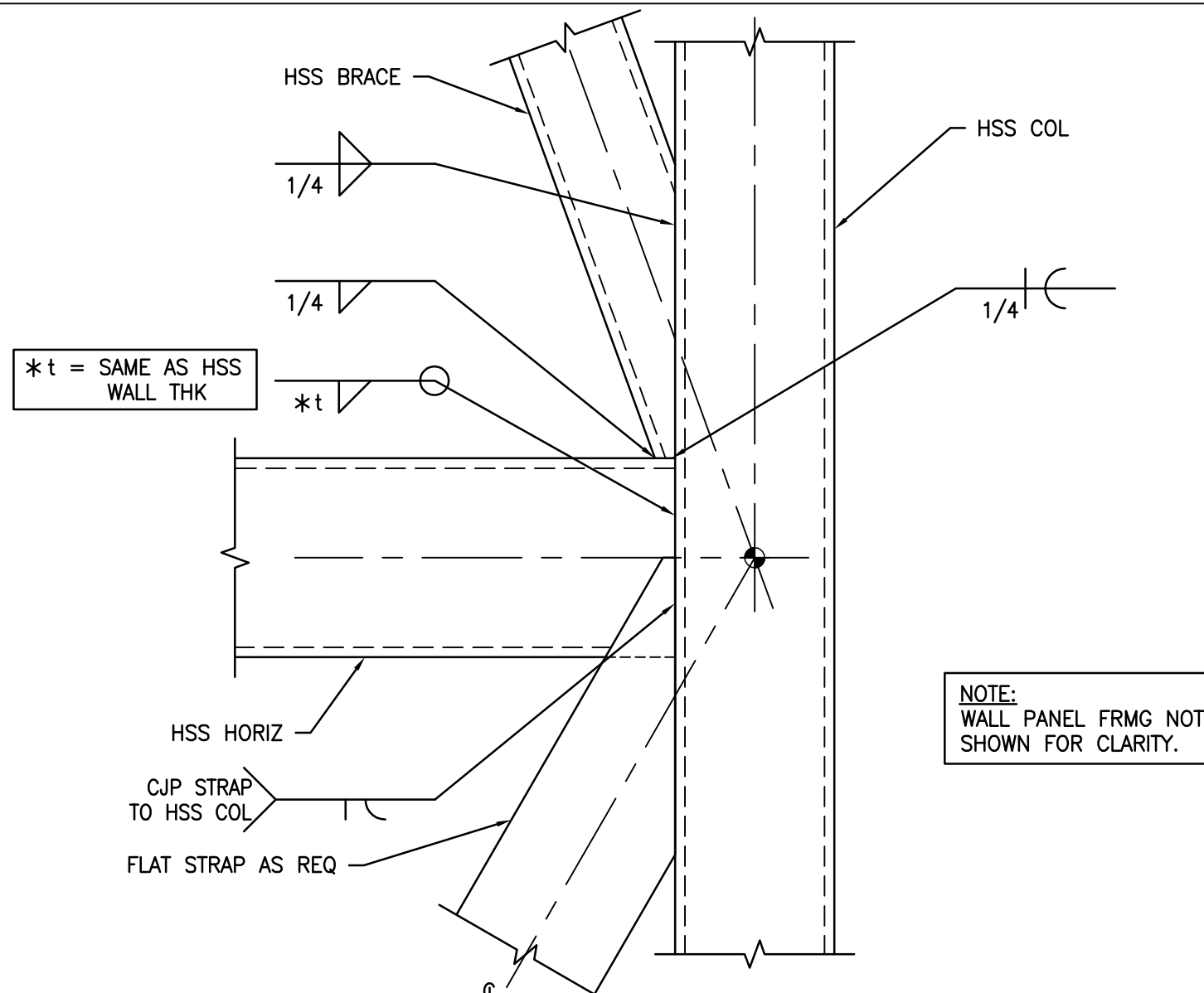
DIAG BRACE CONN  
NON RATED WALL  
DETAIL

9  
S5.1



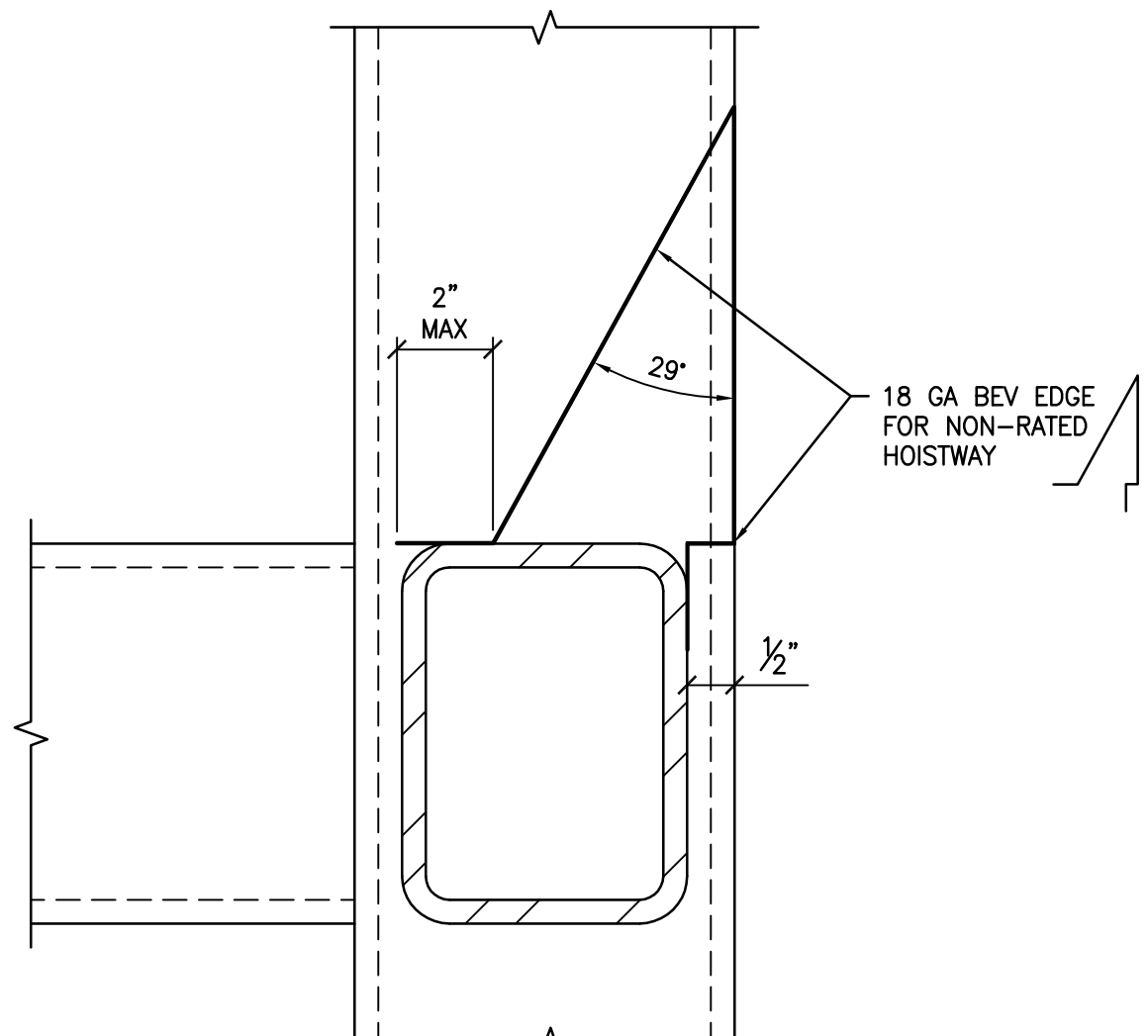
BRACE TO STL FRAME  
DETAIL

4  
S5.1



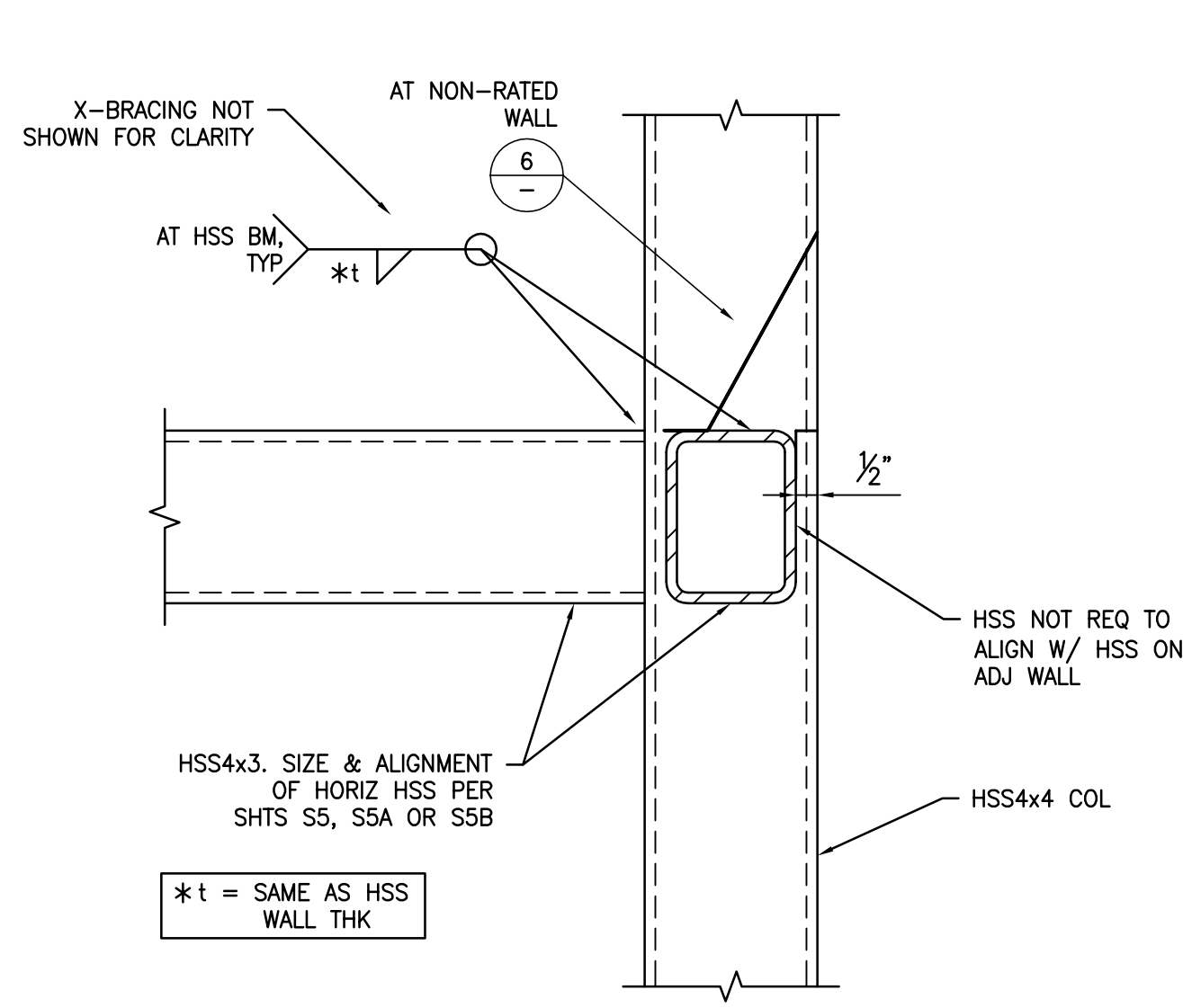
DOOR PANEL BRACE CONN  
DETAIL

5  
S5.1



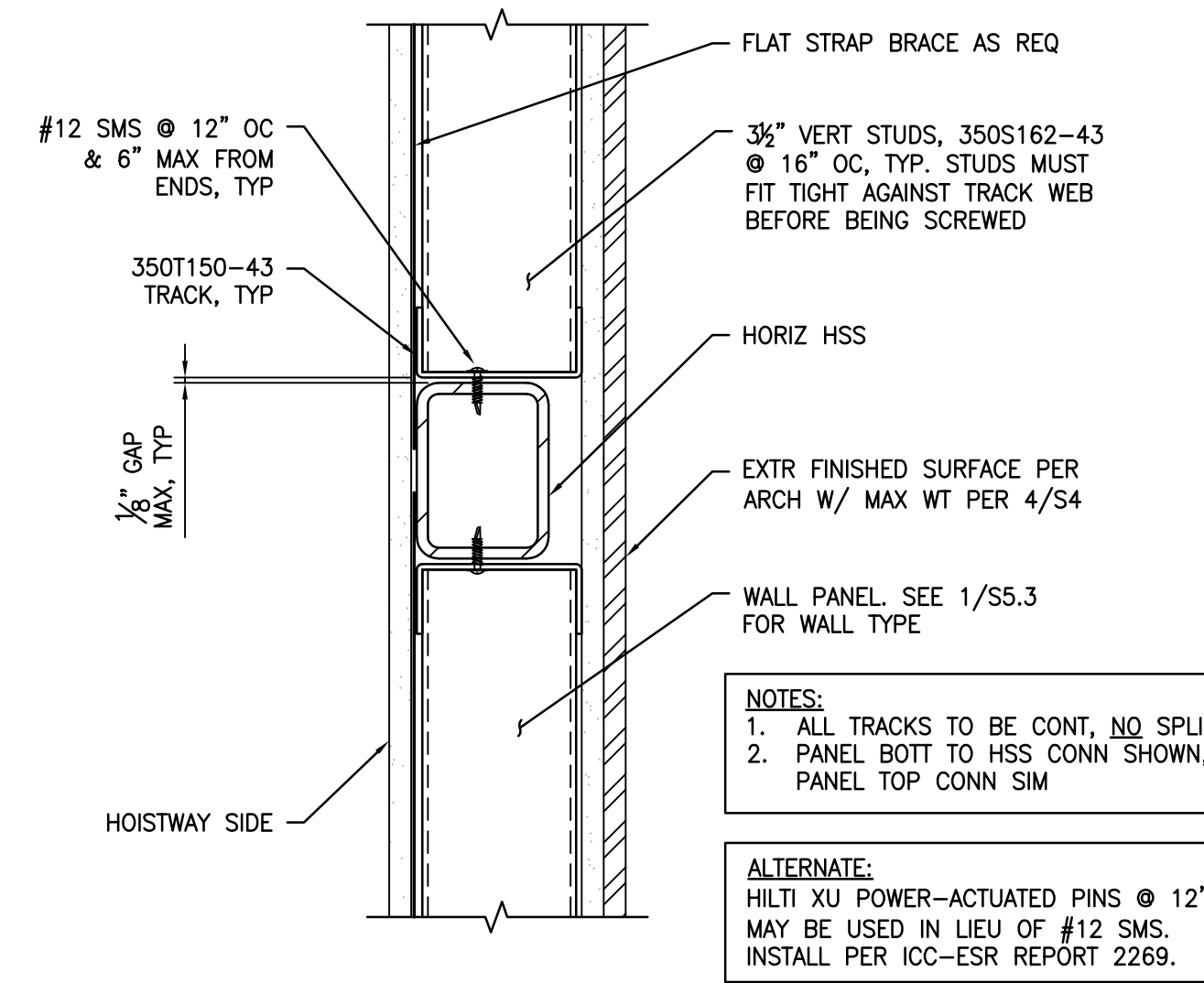
NON-RATED WALL  
DETAIL

6  
S5.1



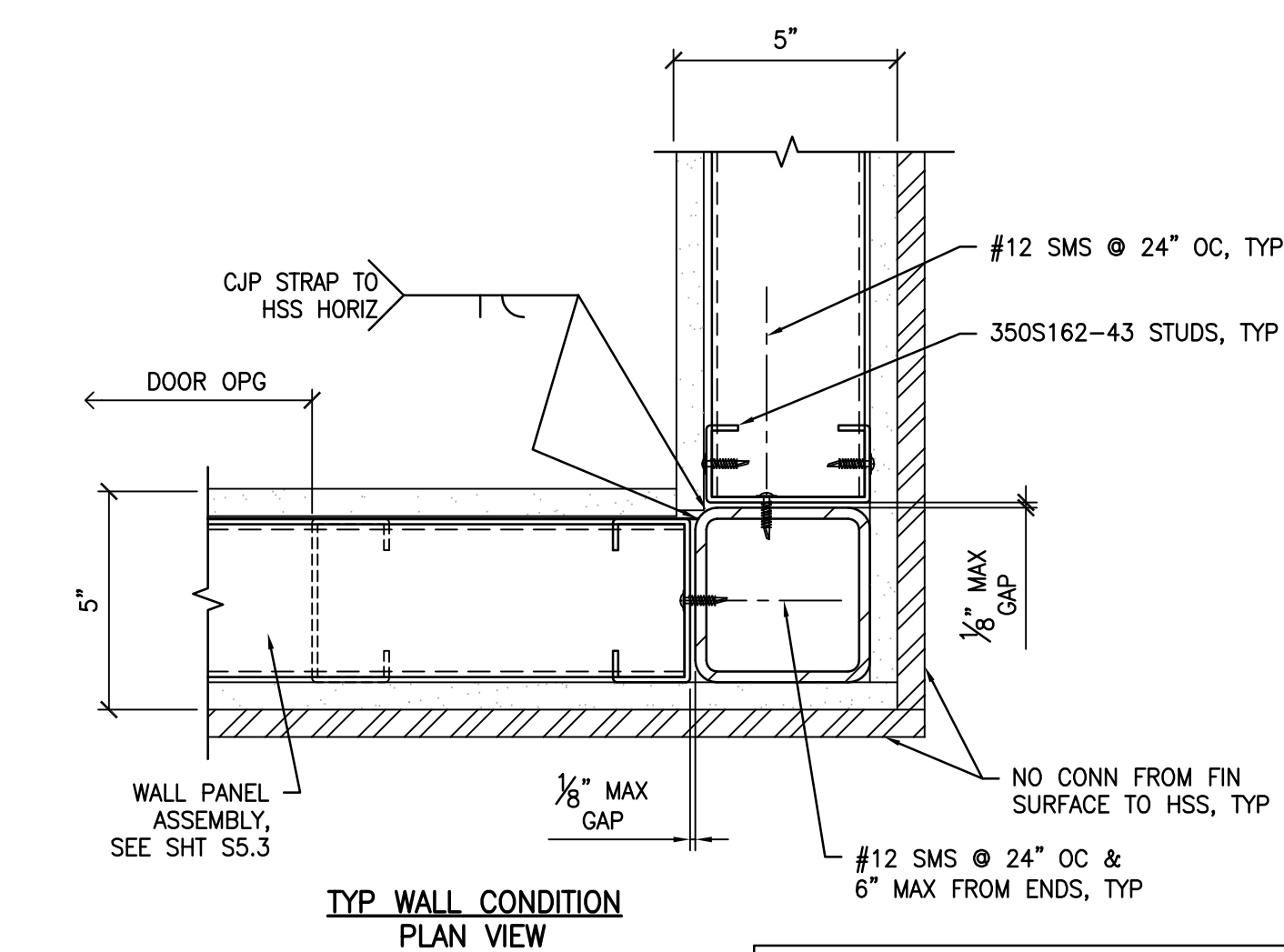
HORIZ HSS TO COL  
DETAIL

1  
S5.1



PANEL CONN  
DETAIL

2  
S5.1



COL  
DETAIL

3  
S5.1

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Structural Engineer  
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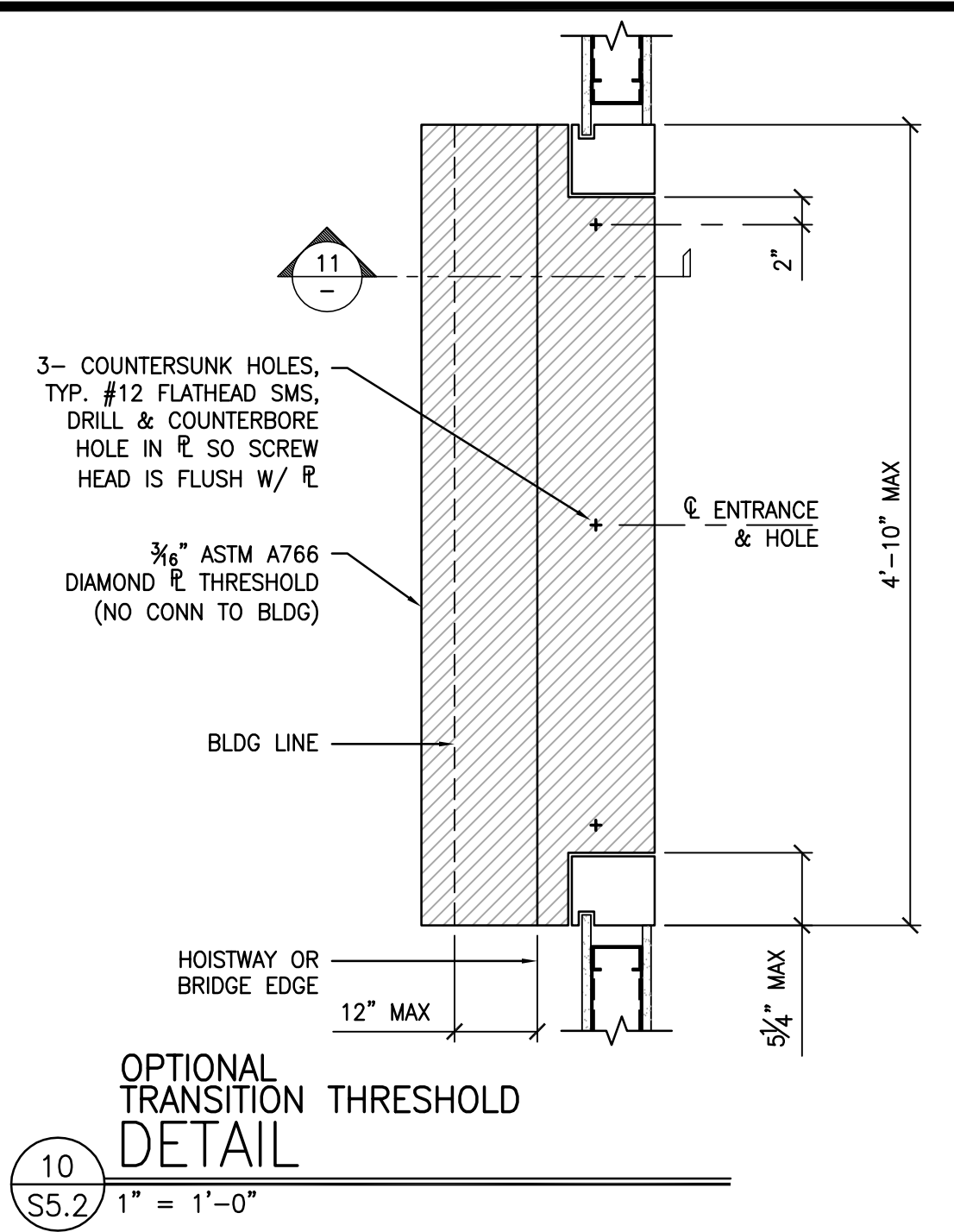
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HOISTWAY DETAILS

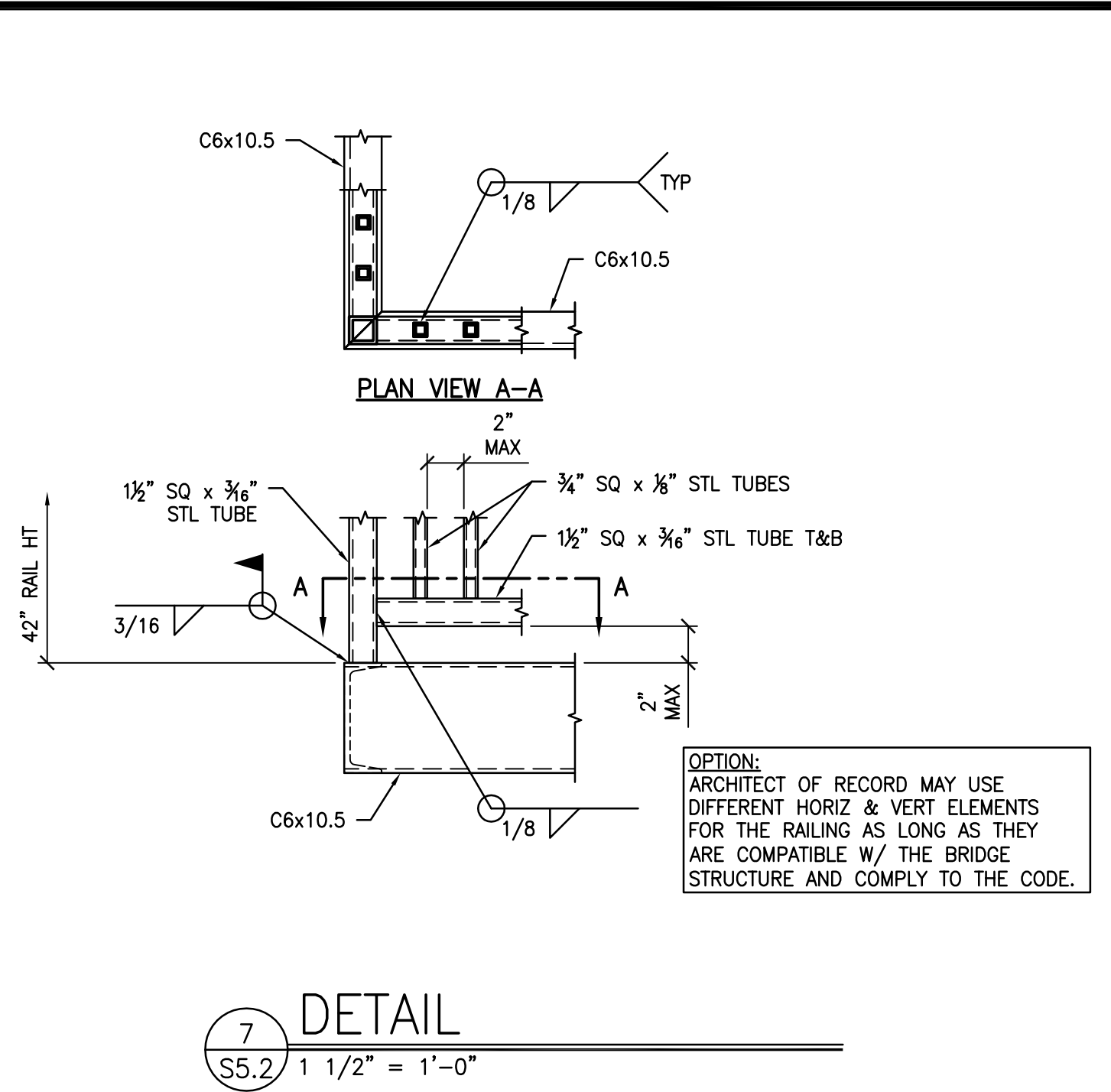
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**S5.1**

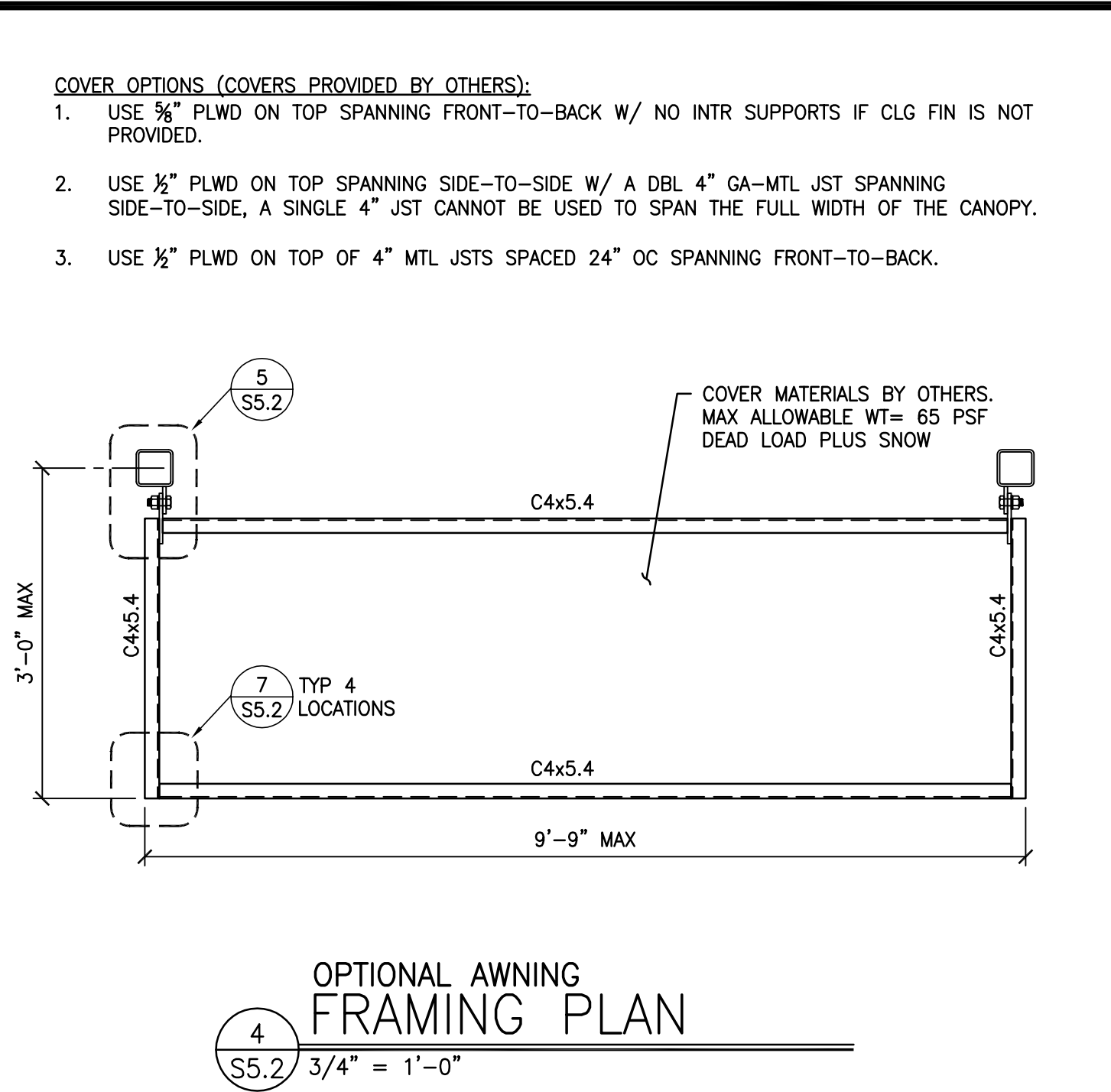
BID SET 10/01/2021



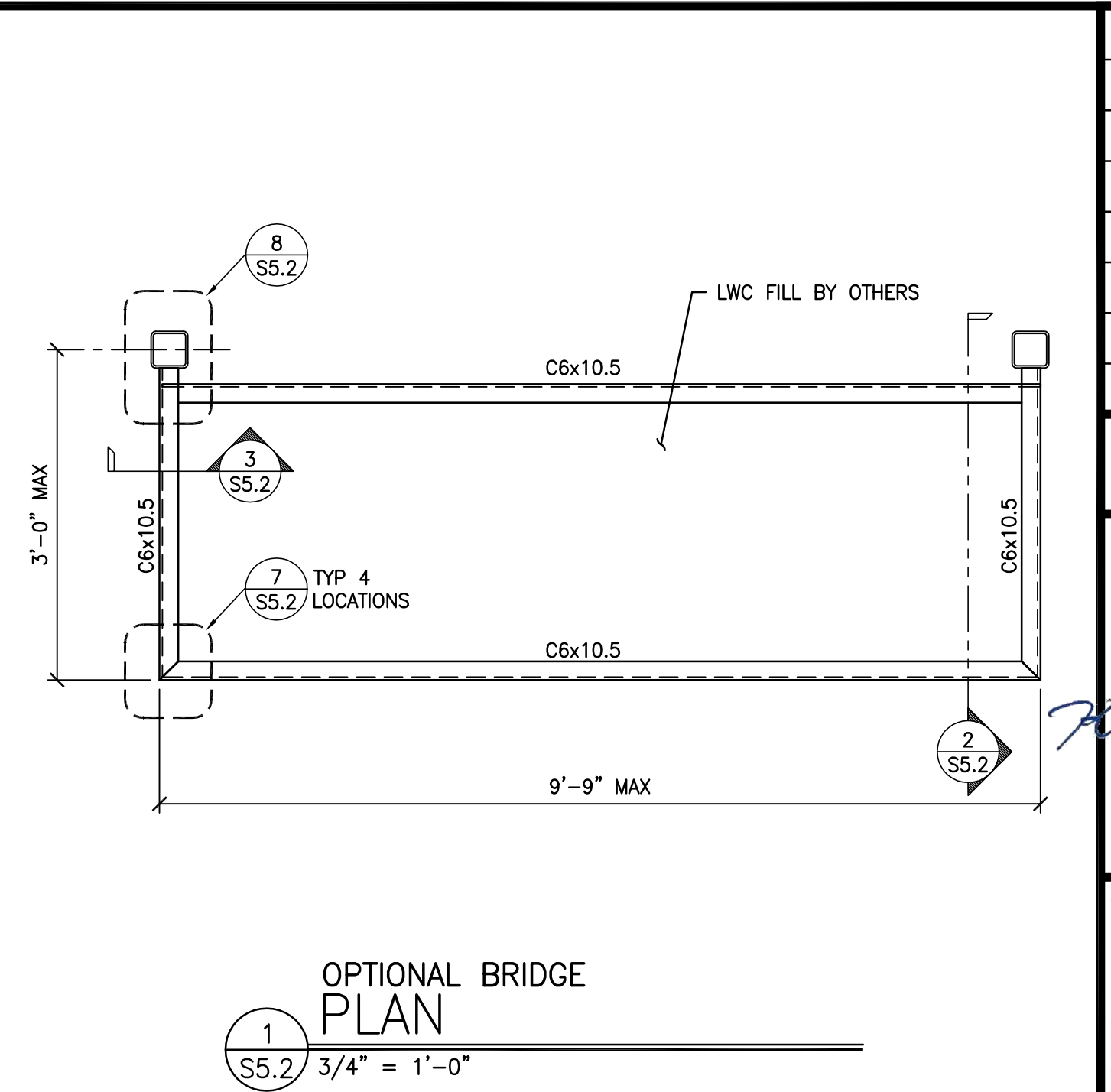
10  
S5.2  
1" = 1'-0"



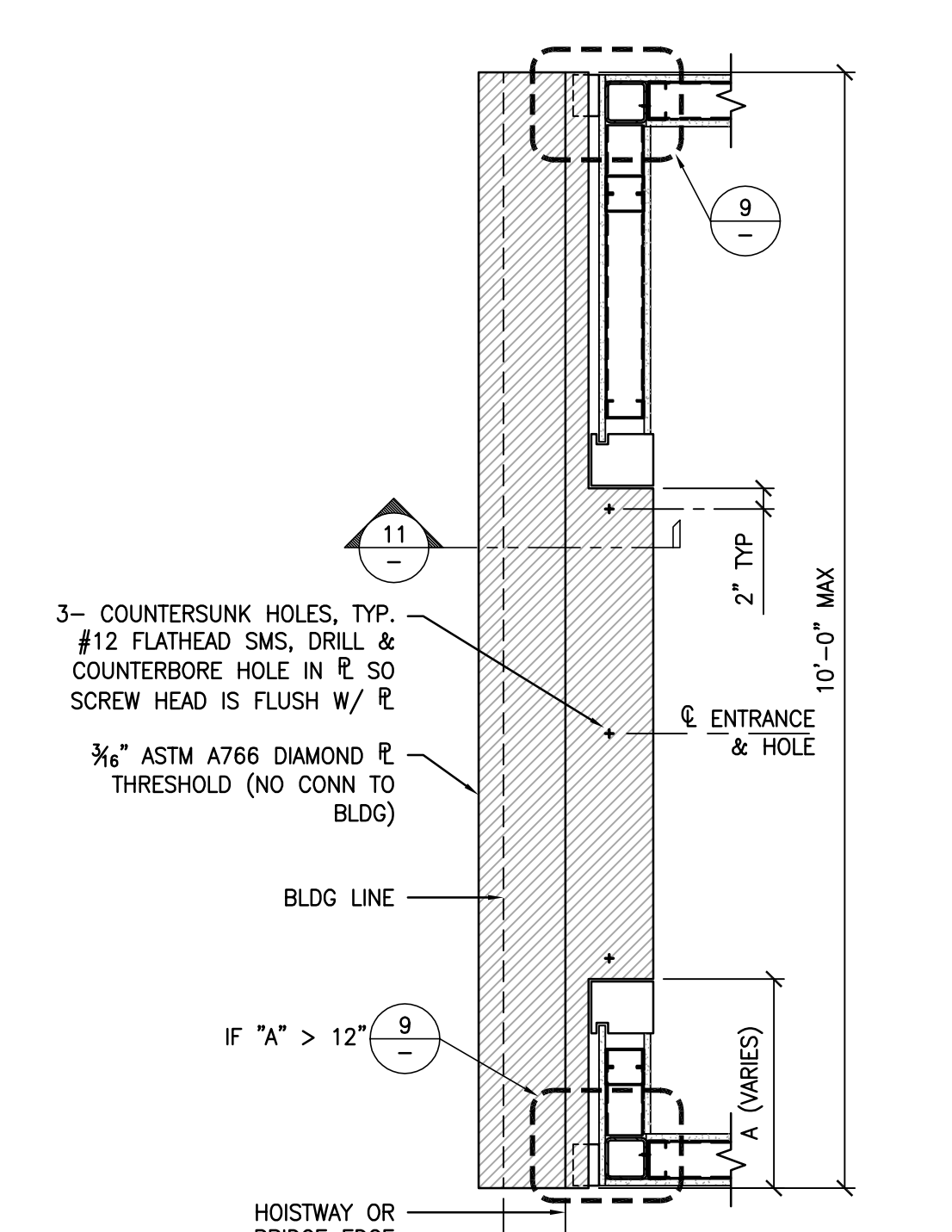
7  
S5.2  
1 1/2" = 1'-0"



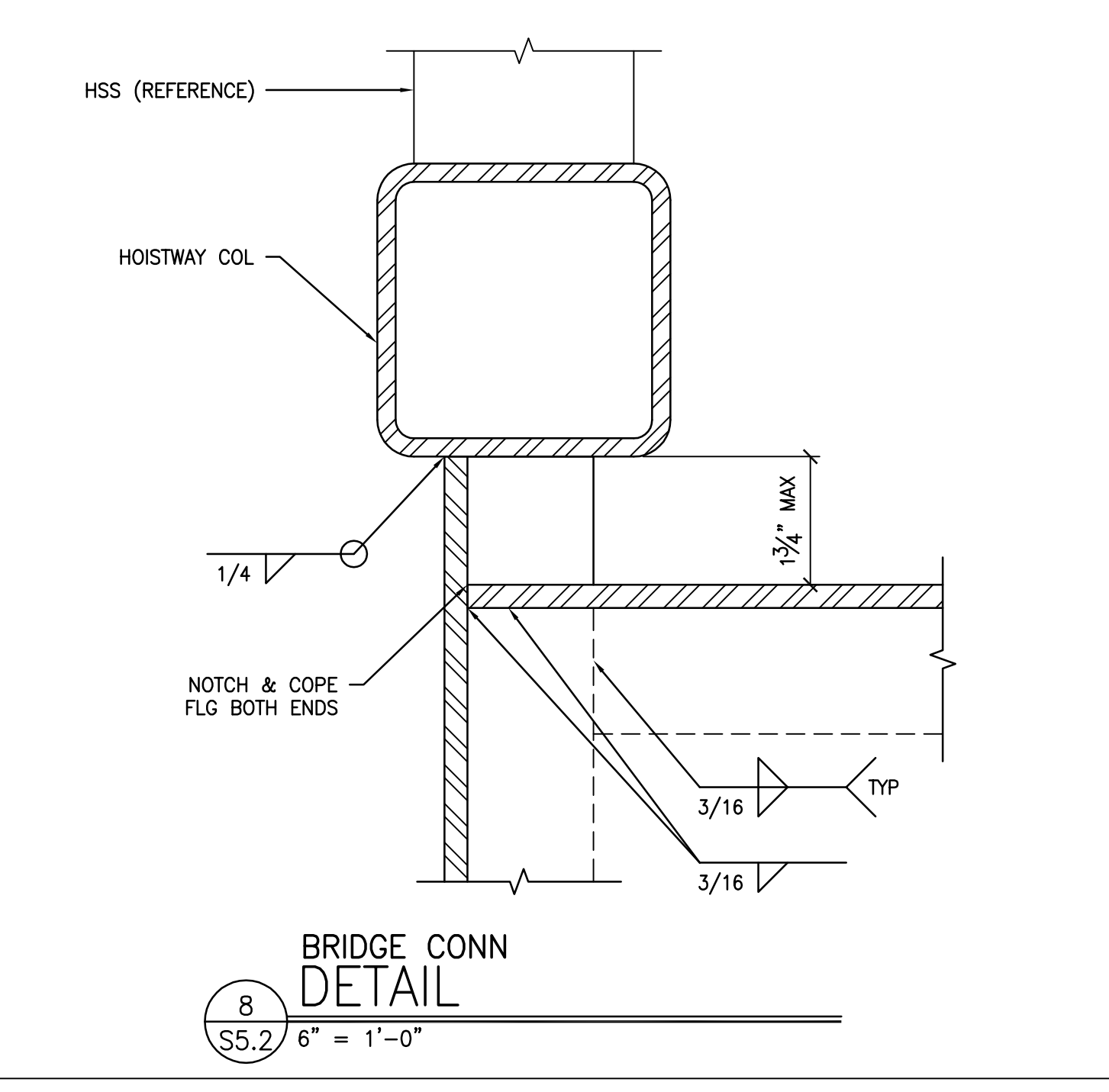
4  
S5.2  
3/4" = 1'-0"



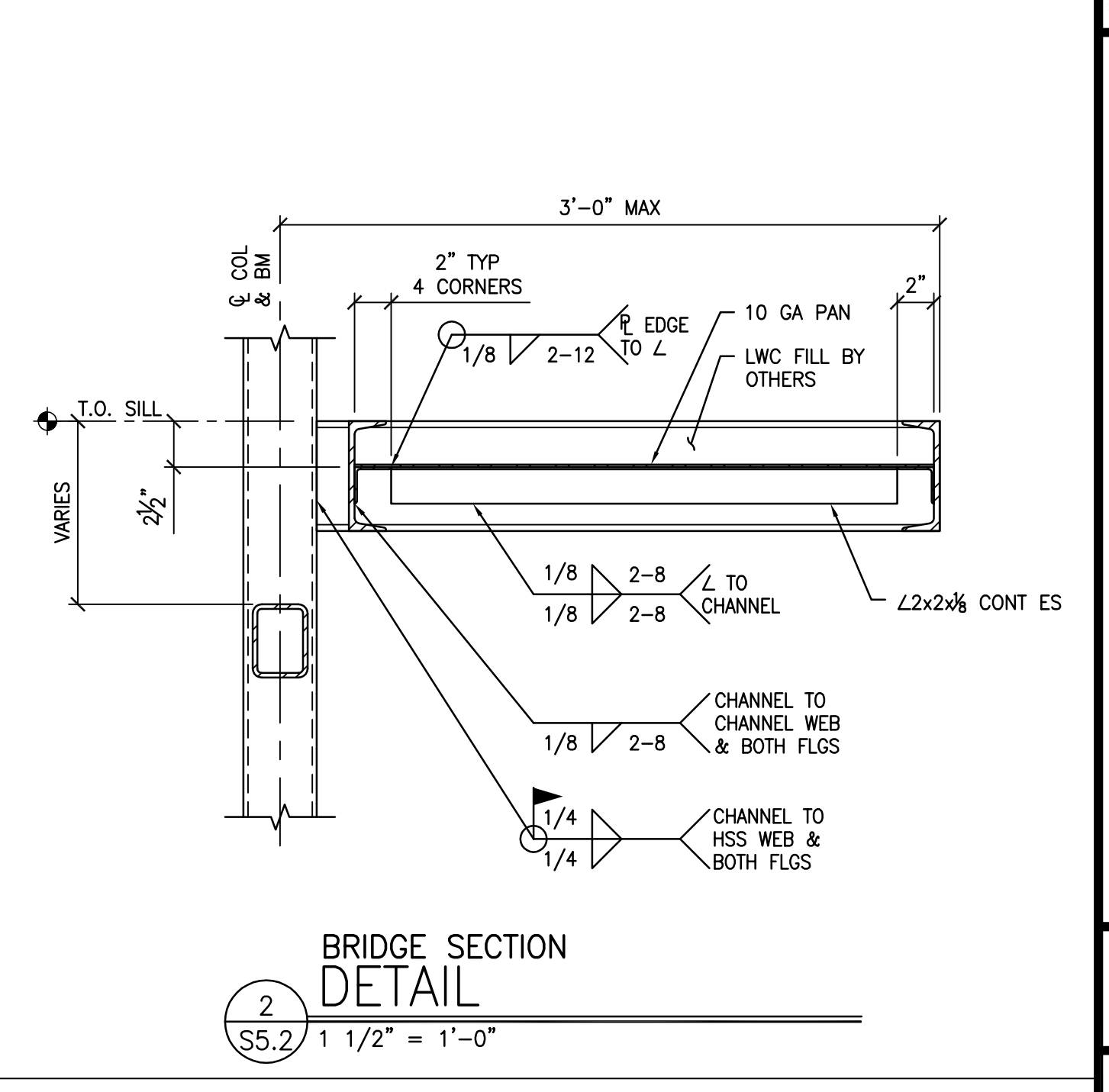
1  
S5.2  
3/4" = 1'-0"



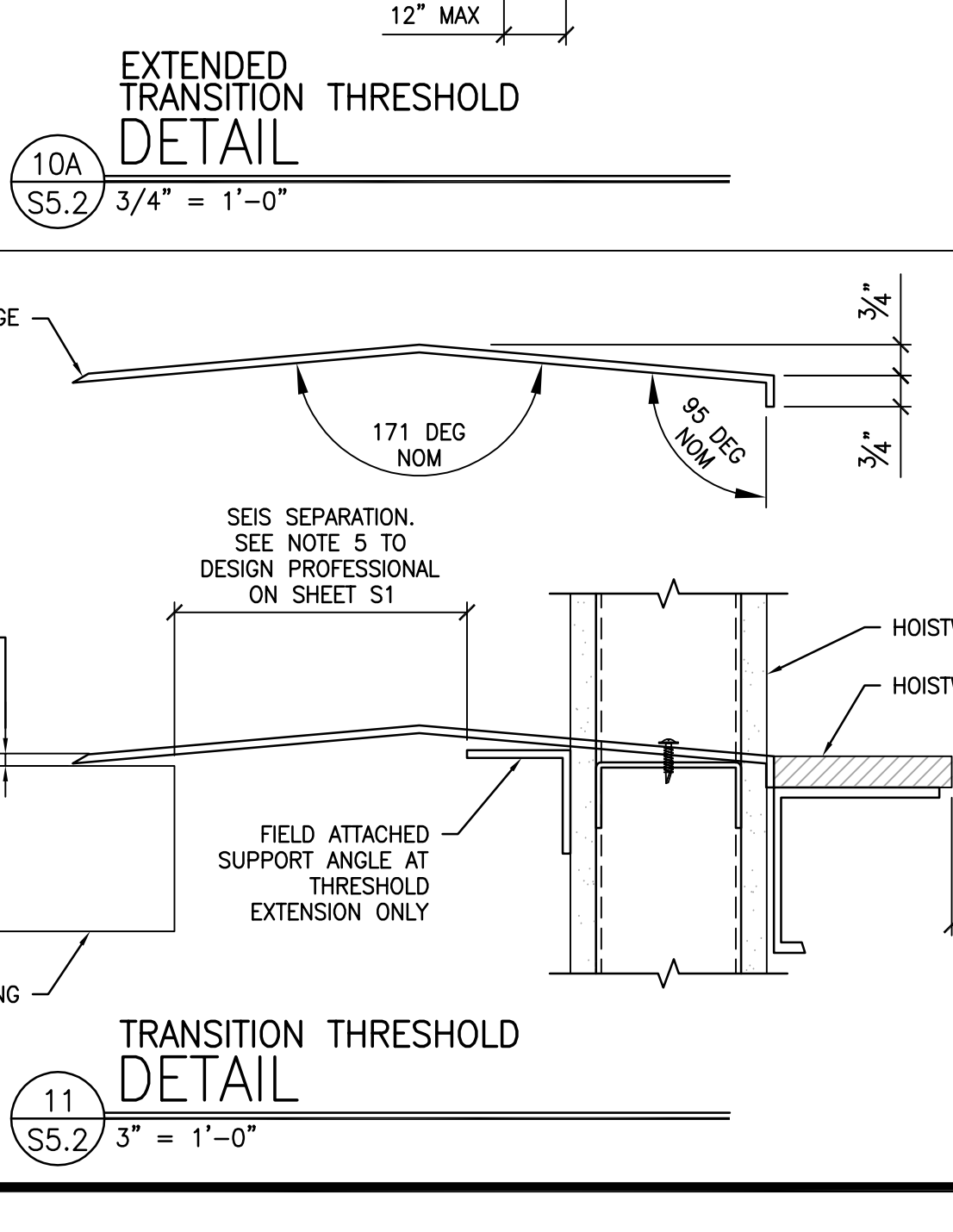
8  
S5.2  
6" = 1'-0"



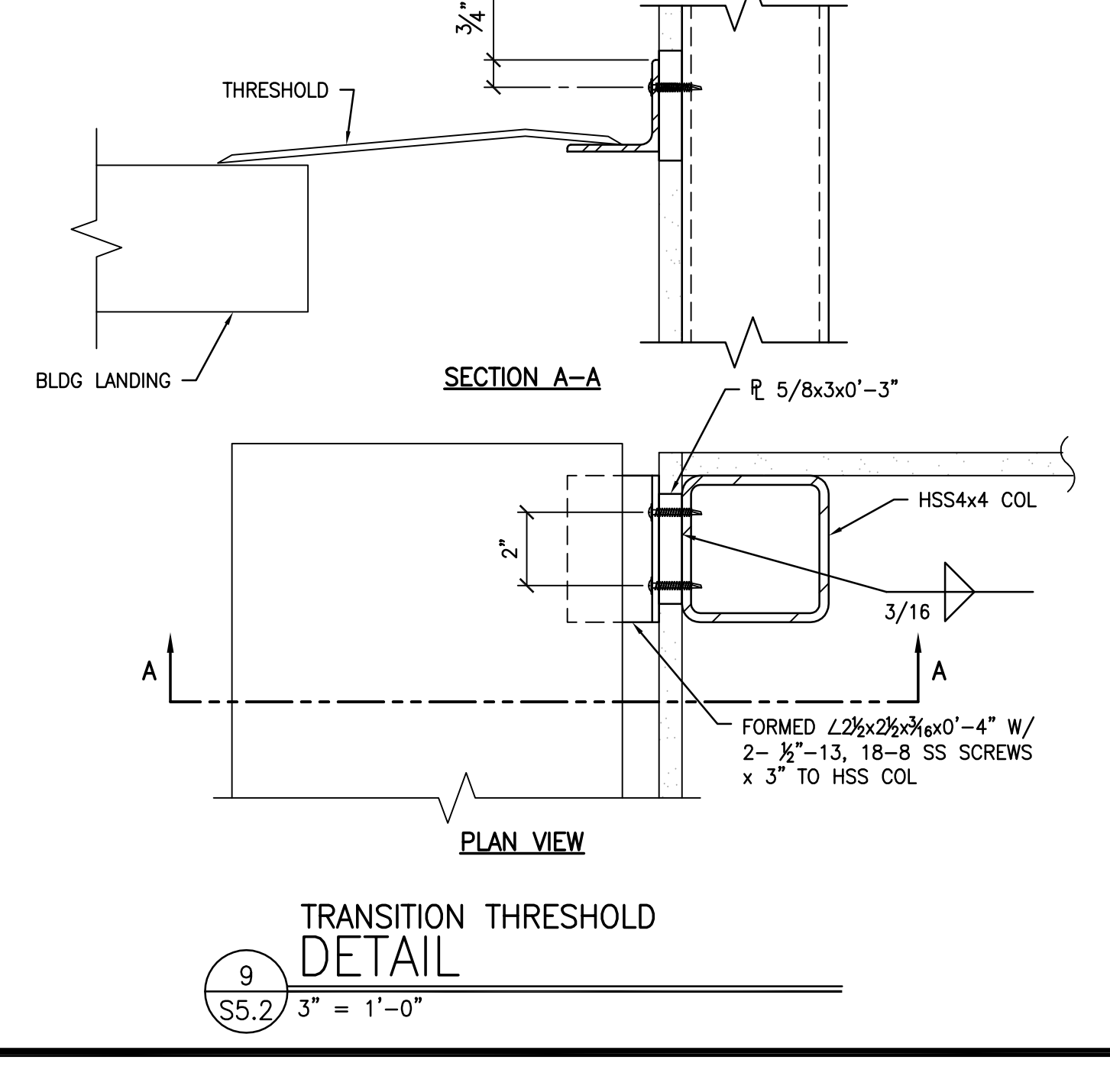
5  
S5.2  
6" = 1'-0"



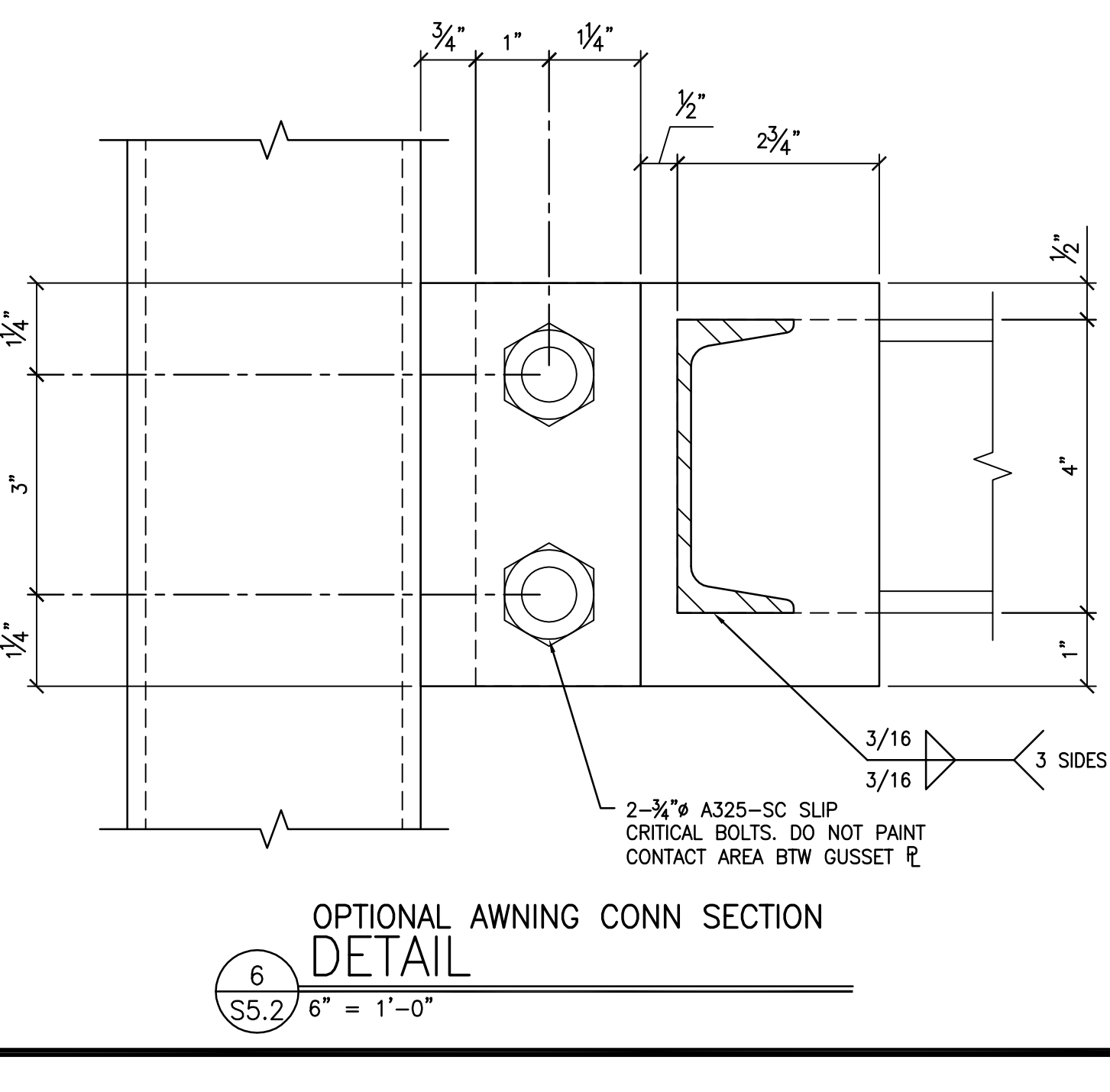
2  
S5.2  
1 1/2" = 1'-0"



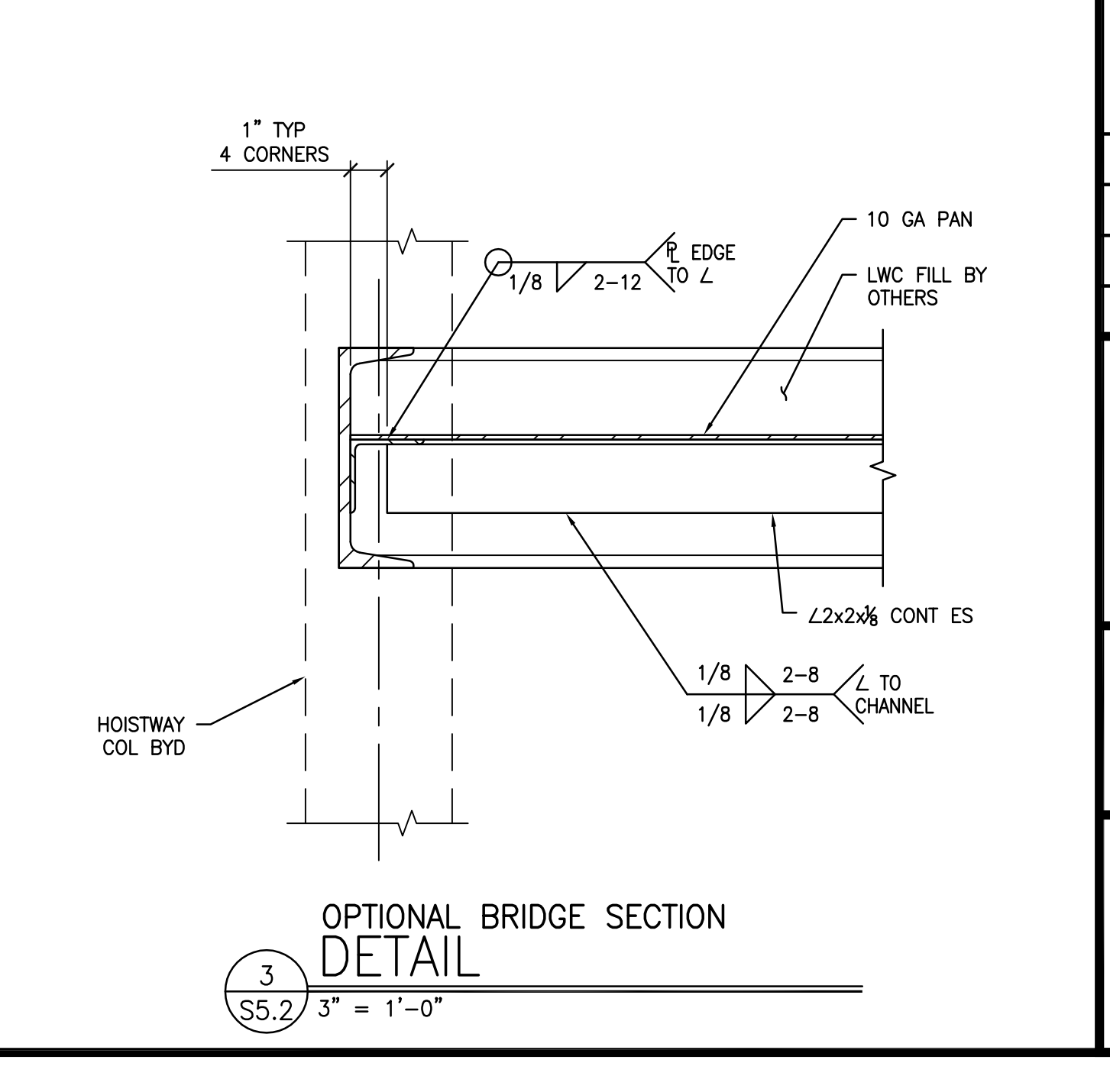
10A  
S5.2  
3/4" = 1'-0"



9  
S5.2  
3" = 1'-0"



6  
S5.2  
6" = 1'-0"



3  
S5.2  
3" = 1'-0"

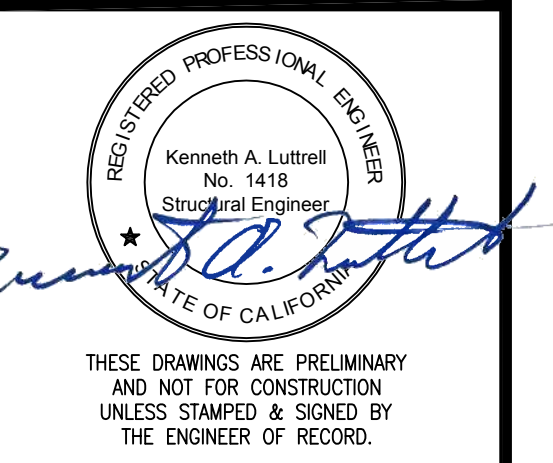
COVER OPTIONS (COVERS PROVIDED BY OTHERS):  
 1. USE 3/8" PLWD ON TOP SPANNING FRONT-TO-BACK W/ NO INTR SUPPORTS IF CLG FIN IS NOT PROVIDED.  
 2. USE 1/2" PLWD ON TOP SPANNING SIDE-TO-SIDE W/ A DBL 4" GA-MTL JST SPANNING SIDE-TO-SIDE, A SINGLE 4" JST CANNOT BE USED TO SPAN THE FULL WIDTH OF THE CANOPY.  
 3. USE 1/2" PLWD ON TOP OF 4" MTL JSTS SPACED 24" OC SPANNING FRONT-TO-BACK.

OPTION:  
 ARCHITECT OF RECORD MAY USE DIFFERENT HORIZ & VERT ELEMENTS FOR THE RAILING AS LONG AS THEY ARE COMPATIBLE W/ THE BRIDGE STRUCTURE AND COMPLY TO THE CODE.

COVER MATERIALS BY OTHERS.  
 MAX ALLOWABLE WT= 65 PSF DEAD LOAD PLUS SNOW

NO.	DATE	REVISION

S.E. PC APPROVAL



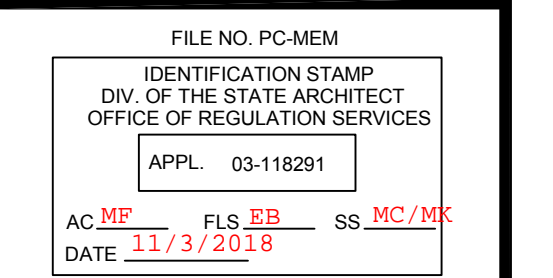
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PROJECT NO: 16093  
 DATE: 10/19/2018

ENGINEERED BY: KAL  
 DRAWN BY: MTC



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 CODE: 2016  
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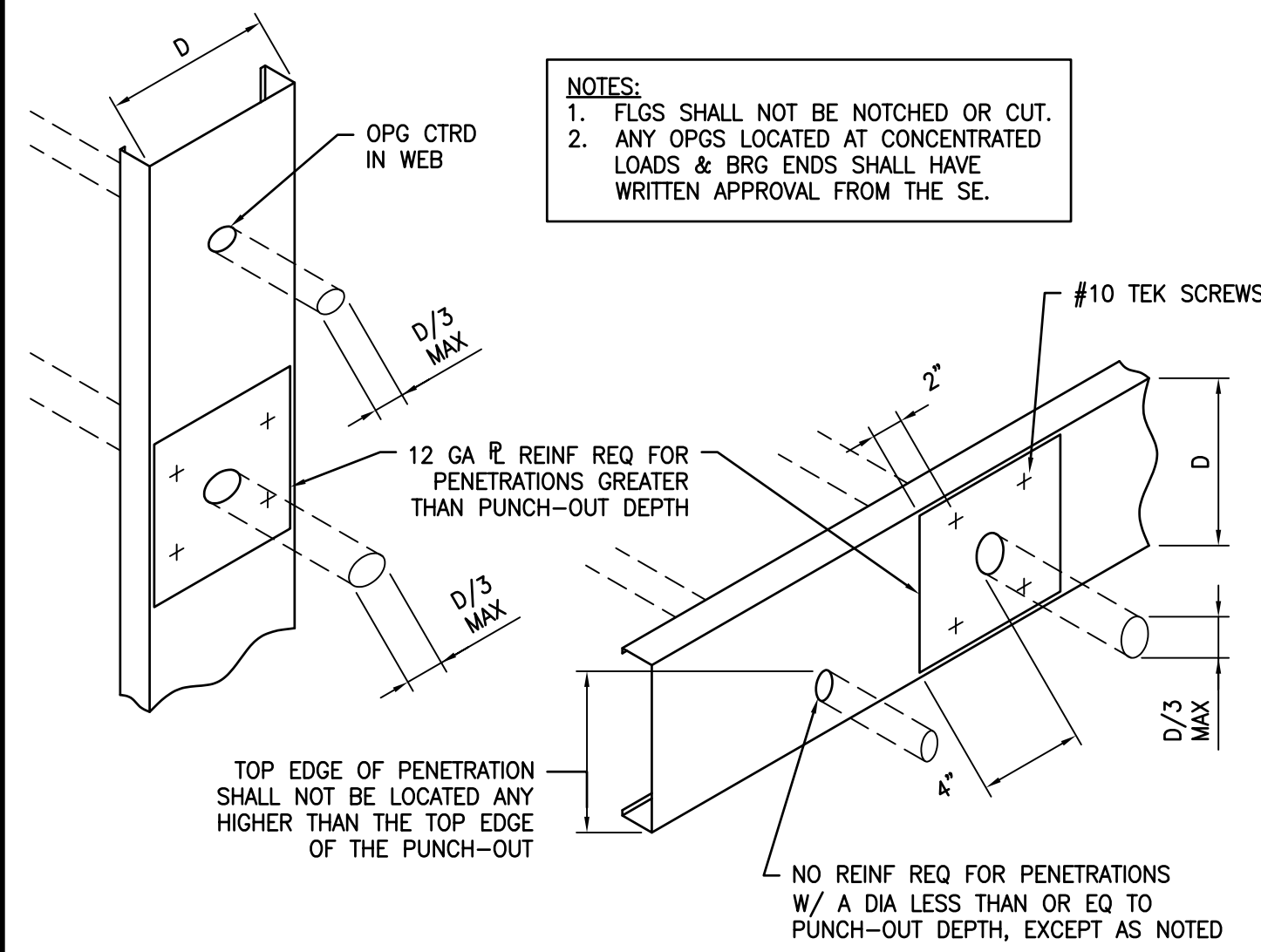
SHEET NAME:  
**MISCELLANEOUS DETAILS**

SHEET NO:

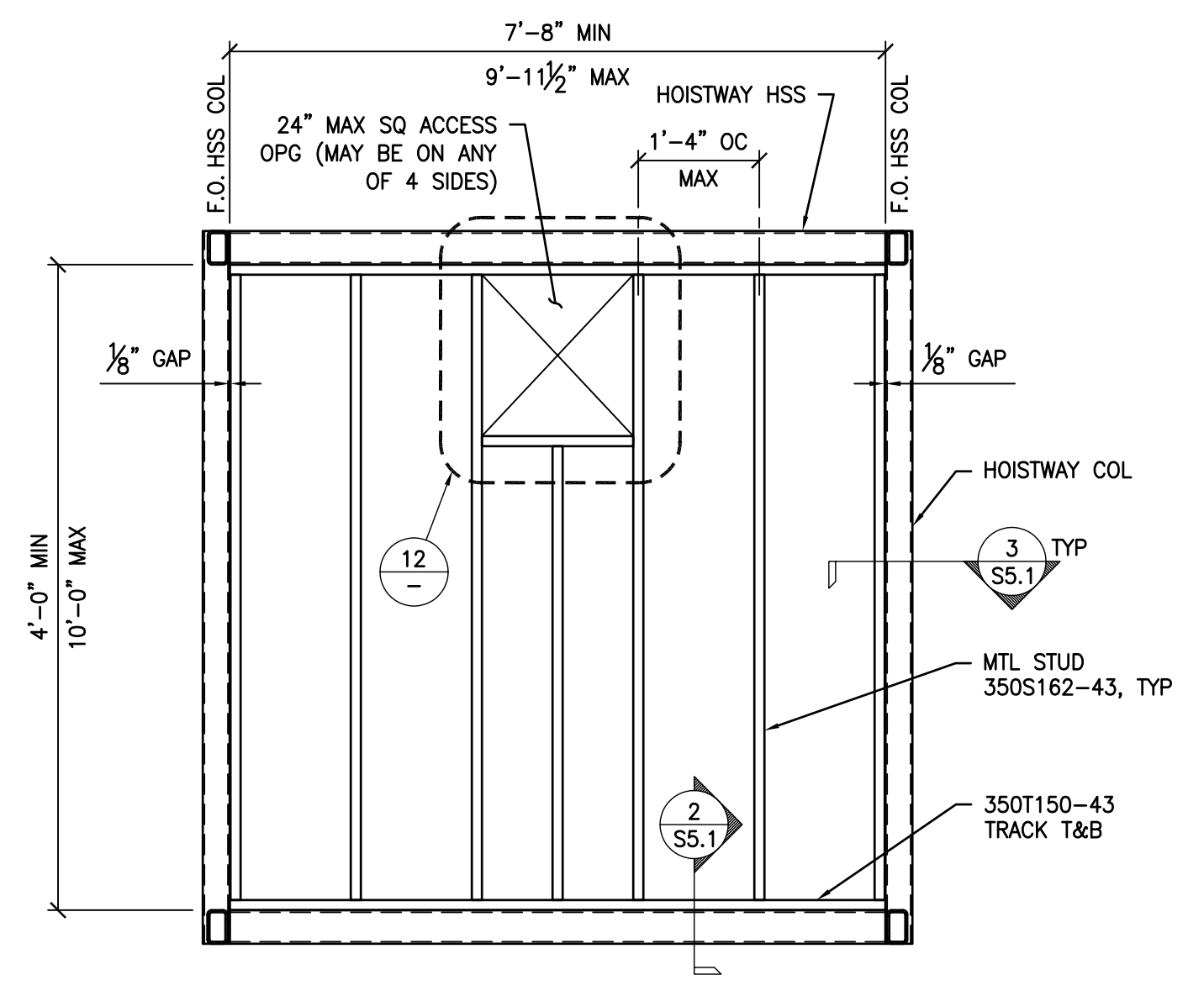
**S5.2**

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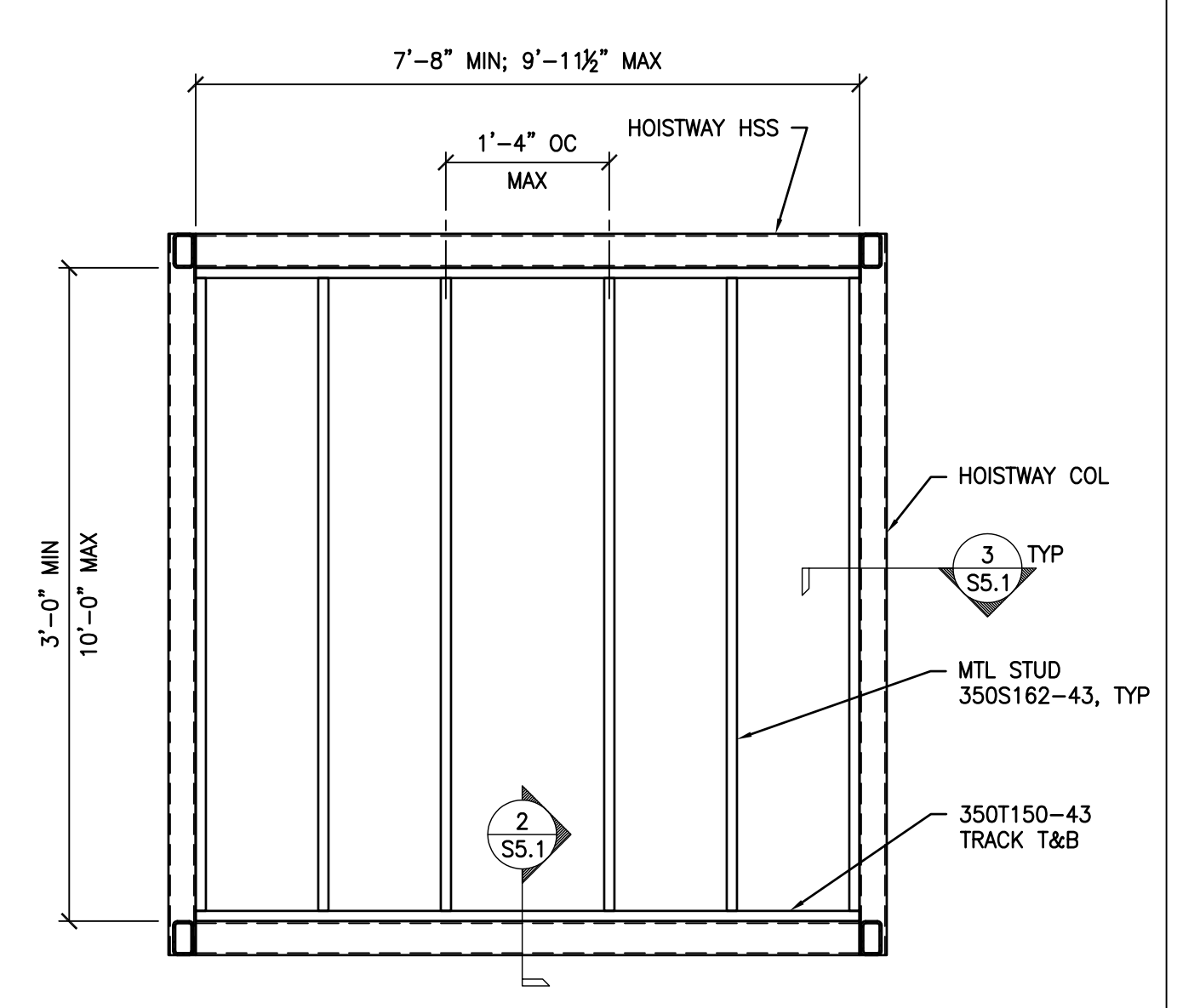
BID SET 10/01/2021



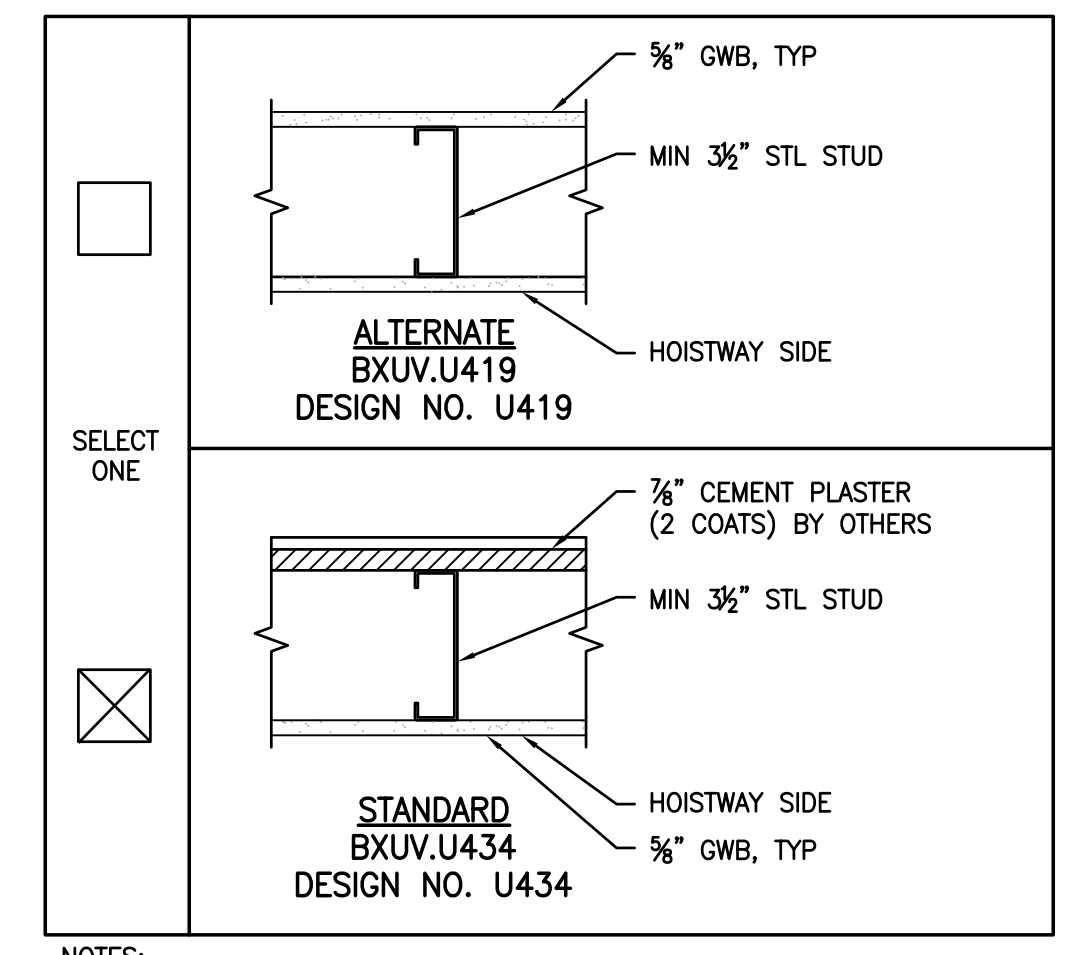
10 PENETRATION DETAIL  
S5.3 NTS



7 HOISTWAY VENT/ACCESS PANEL ELEVATION  
S5.3 1/2" = 1'-0"

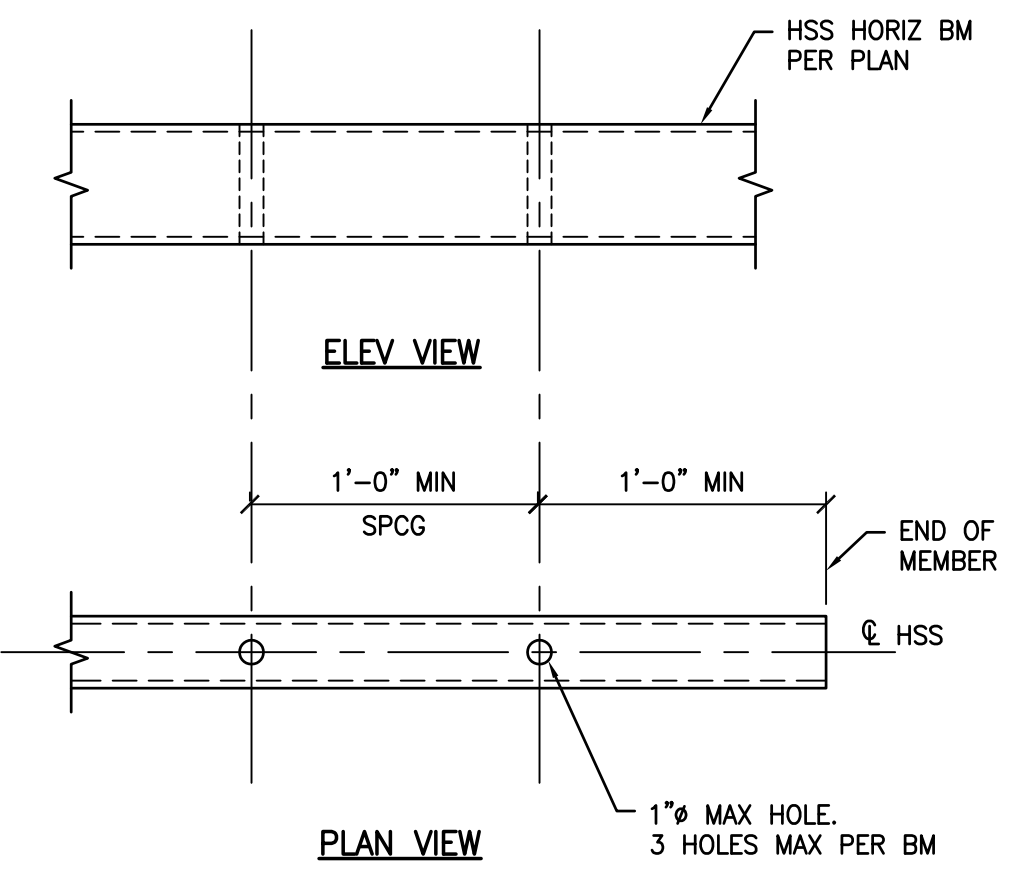


4 HOISTWAY WALL PANEL ELEVATION  
S5.3 1/2" = 1'-0"

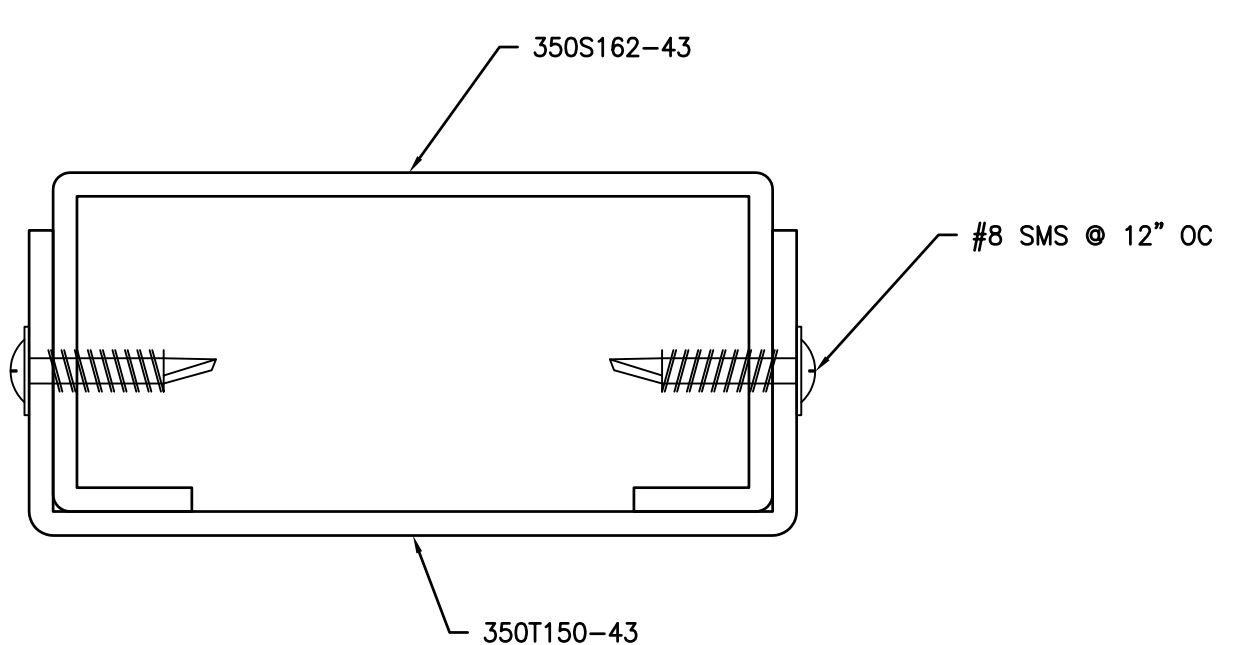


1 ONE HOUR RATED WALL TYPES  
S5.3 NTS

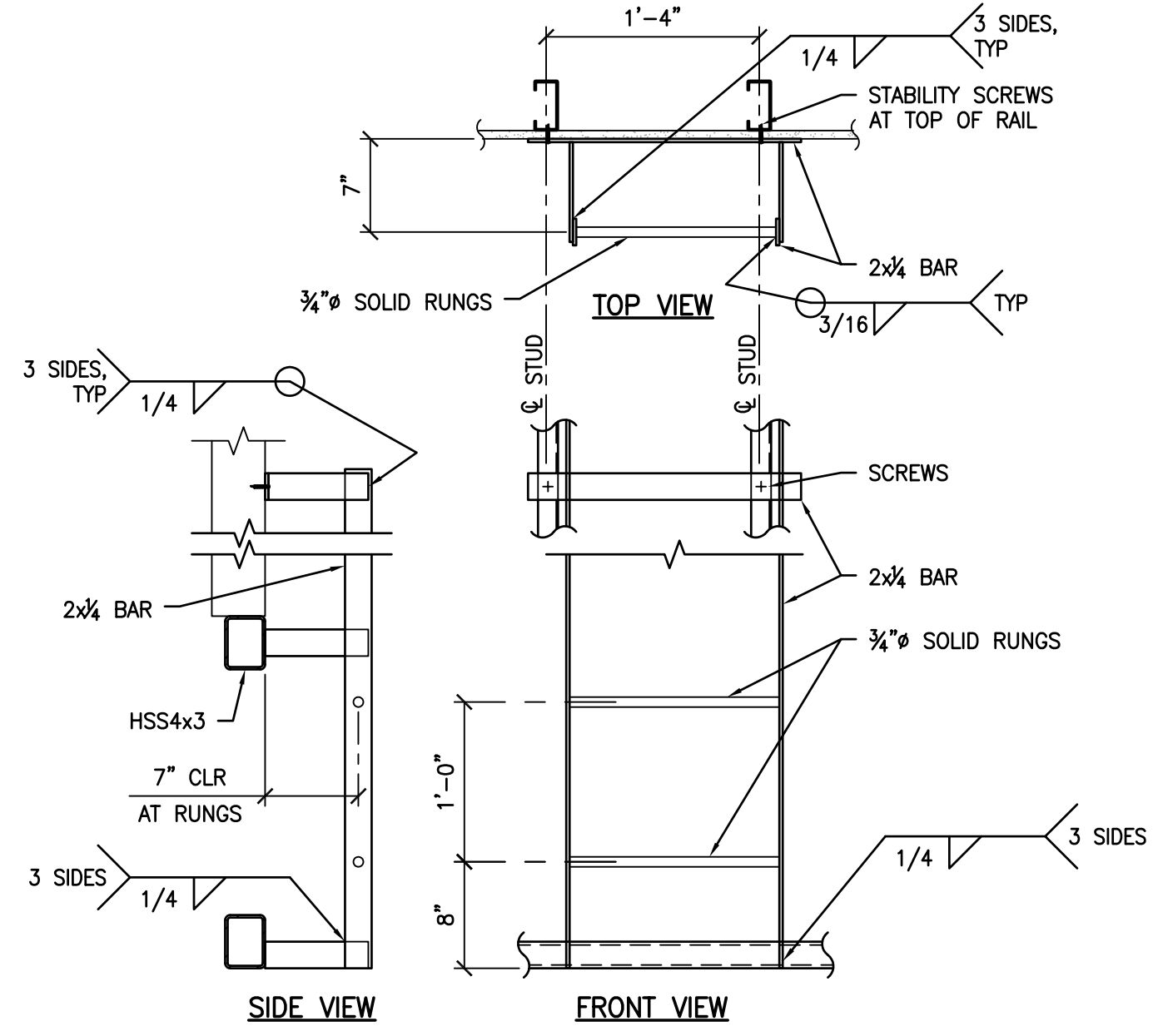
NOTES:  
1. SEE SHT S5 OR SHT S5A FOR NON-RATED WALL CONDITION.  
2. ALL ENTRANCE WALLS MUST BE FIRE RATED, TYP.  
3. SEE TABLE ON 2/SS FOR WALL SELECTOR.  
4. PANELS VIEWED FROM INSIDE OF HOISTWAY.  
5. 2-HOUR FIRE RATED ASSEMBLY WILL CONSIST OF TWO LAYERS OF 5/8" TYPE X GWB INSIDE & OUTSIDE OF TOWER UTILIZING 3/4" STUDS. ASSEMBLY IS BASED UPON UL DESIGN NO. U419.



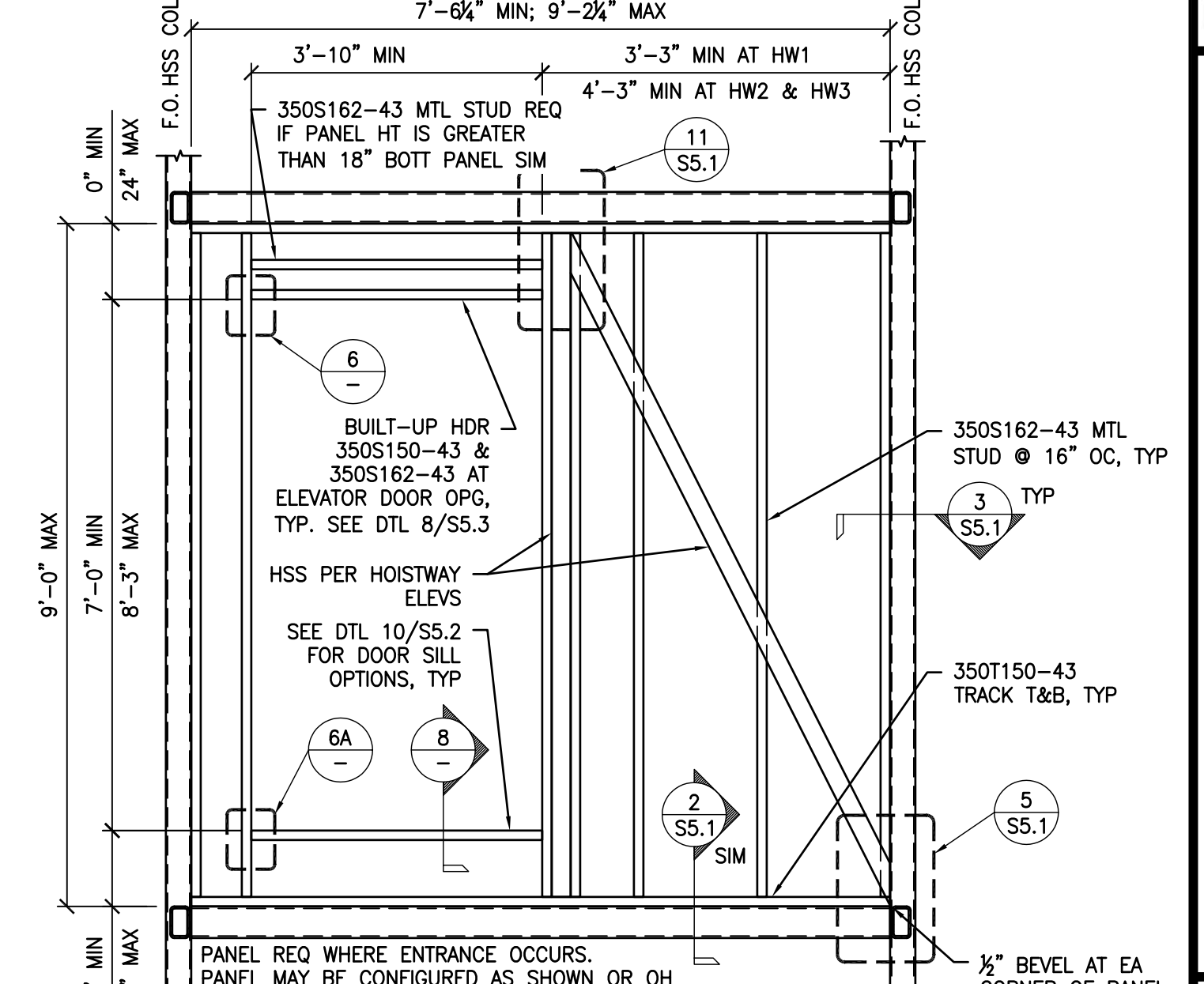
11 PENETRATION HORIZ HSS DETAIL  
S5.3 1 1/2" = 1'-0"



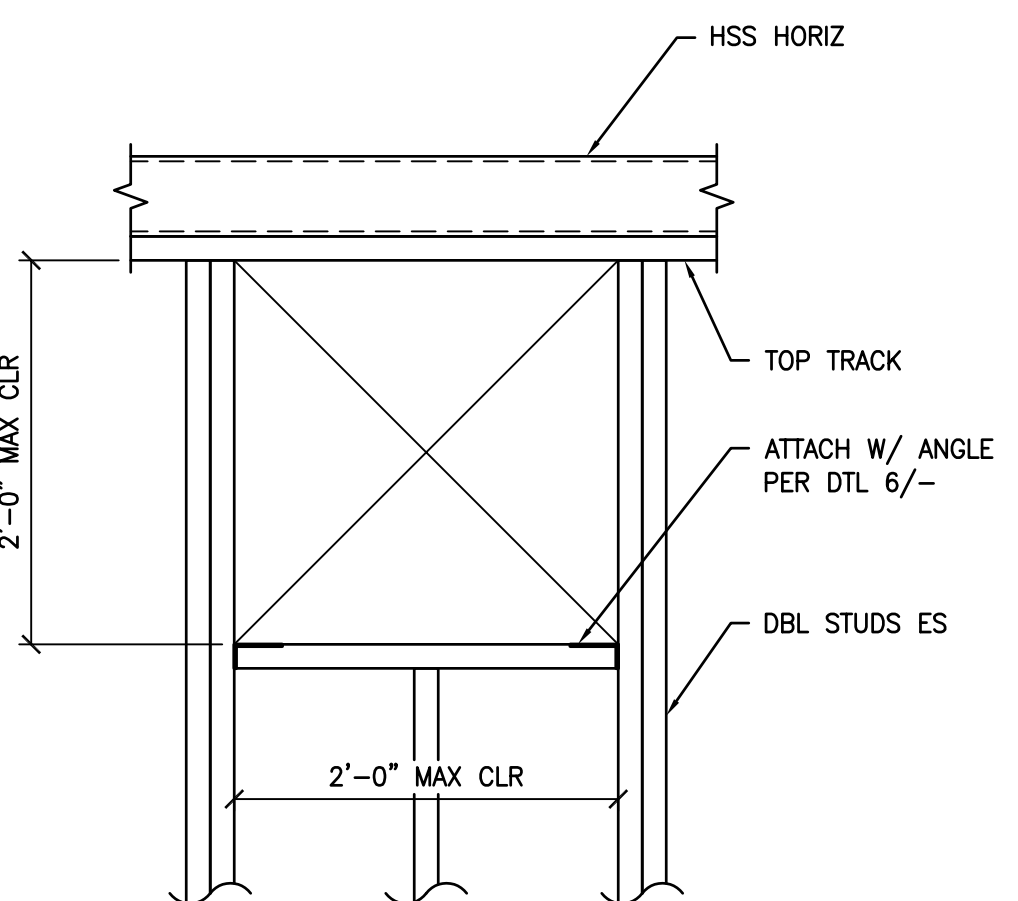
8 DOOR ENTRANCE TRACK ASSEMBLY DETAIL  
S5.3 NTS



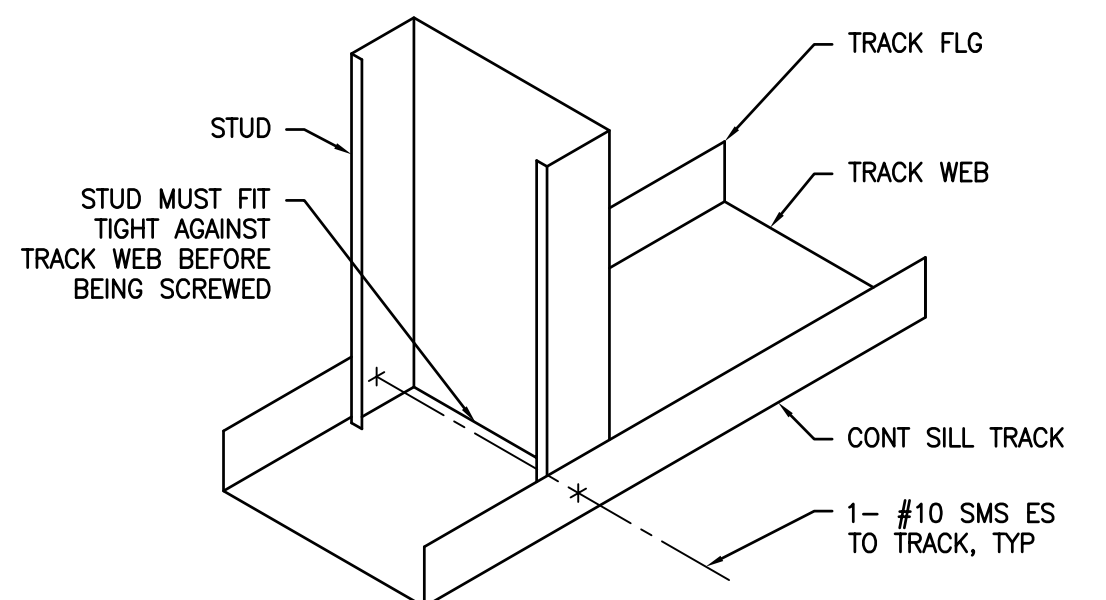
5 PIT LADDER DETAIL  
S5.3 1" = 1'-0"



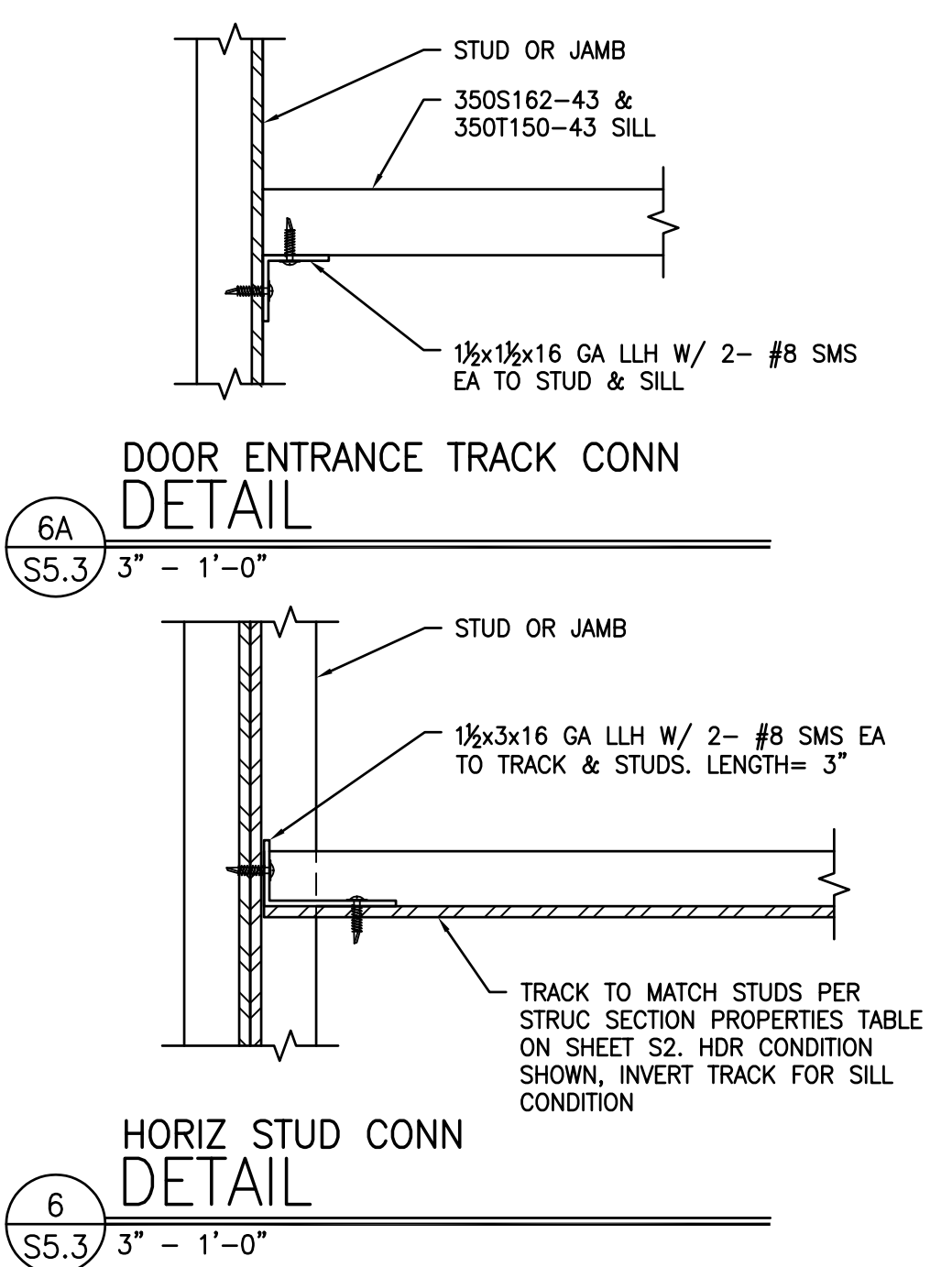
2 HOISTWAY ENTRANCE ELEVATION  
S5.3 1/2" = 1'-0"



12 WALL OPENING FOR VENT/ACCESS PANEL DETAIL  
S5.3 1" = 1'-0"



9 STUD TO TRACK CONN DETAIL  
S5.3 NTS



6A DOOR ENTRANCE TRACK CONN DETAIL  
S5.3 3" = 1'-0"

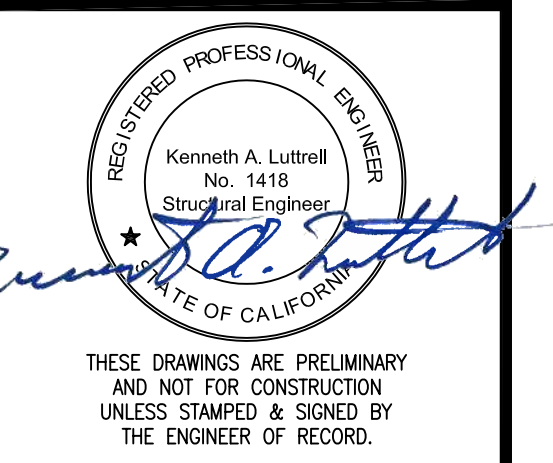
6 HORIZ STUD CONN DETAIL  
S5.3 3" = 1'-0"

NOT USED

3 DETAIL  
S5.3

NO.	DATE	REVISION

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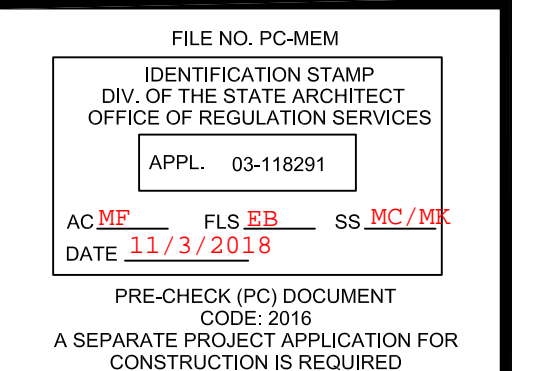


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P.O. BOX 3998  
CHATSWORTH, CA. 91313  
800-755-9359

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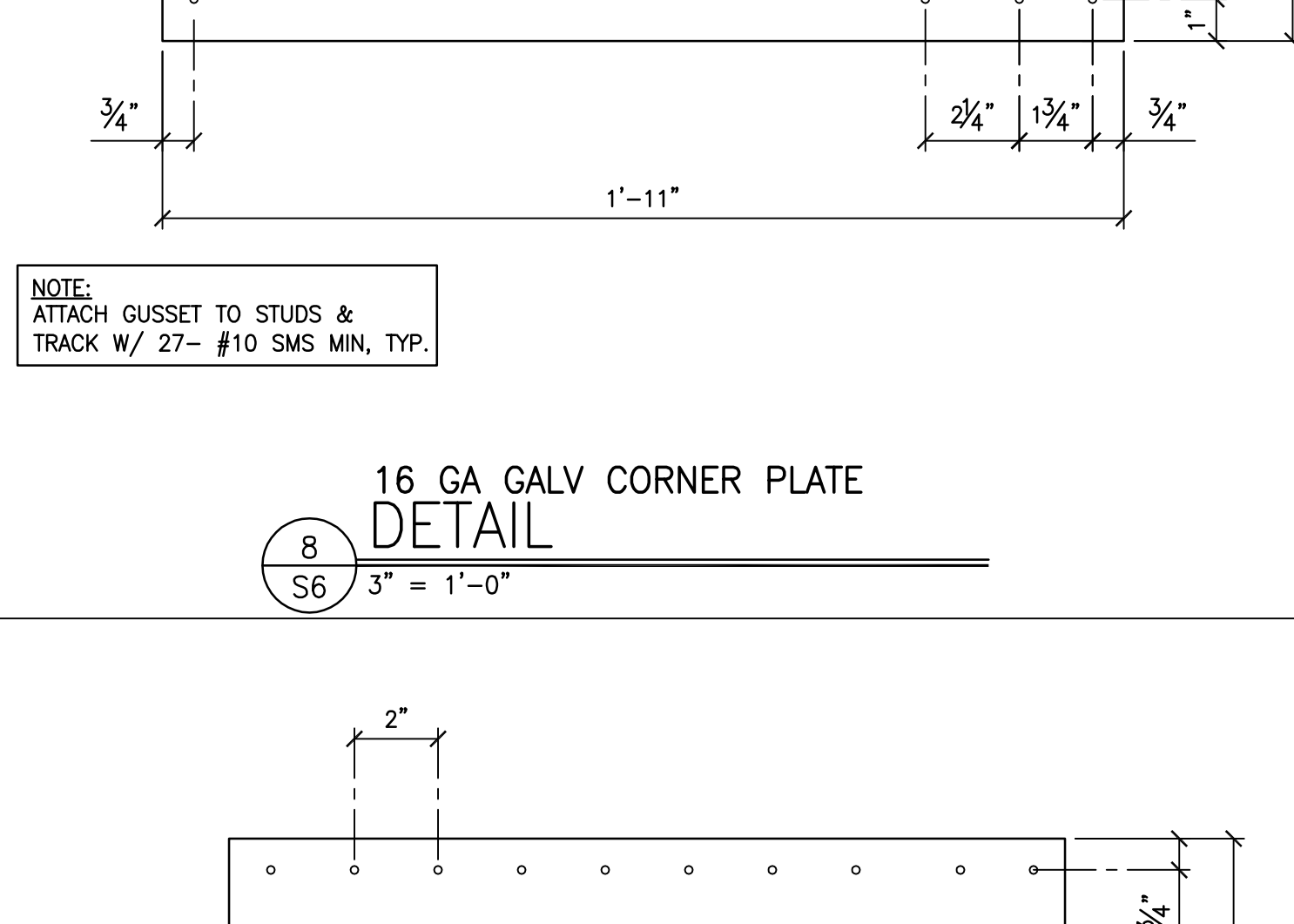
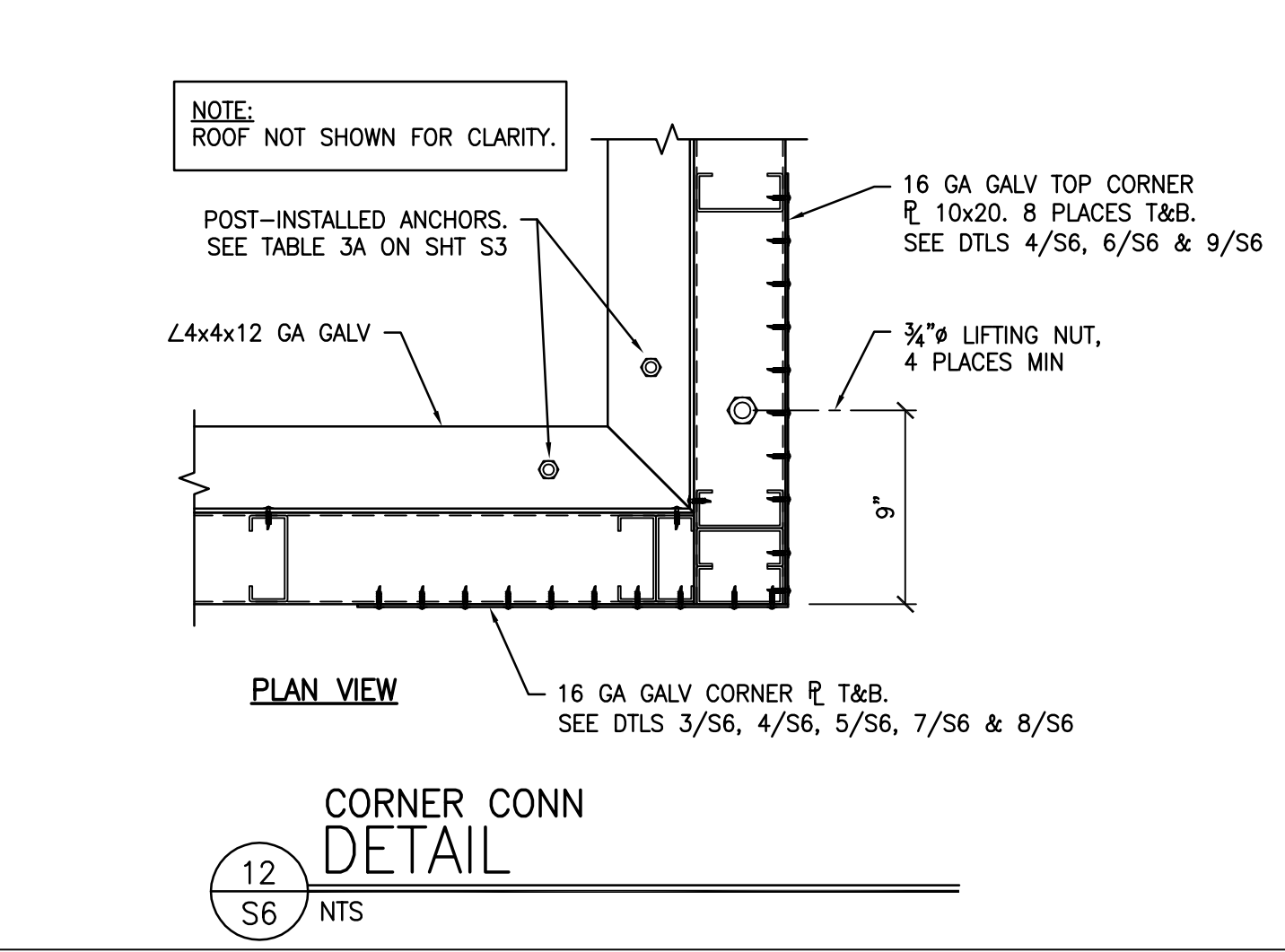
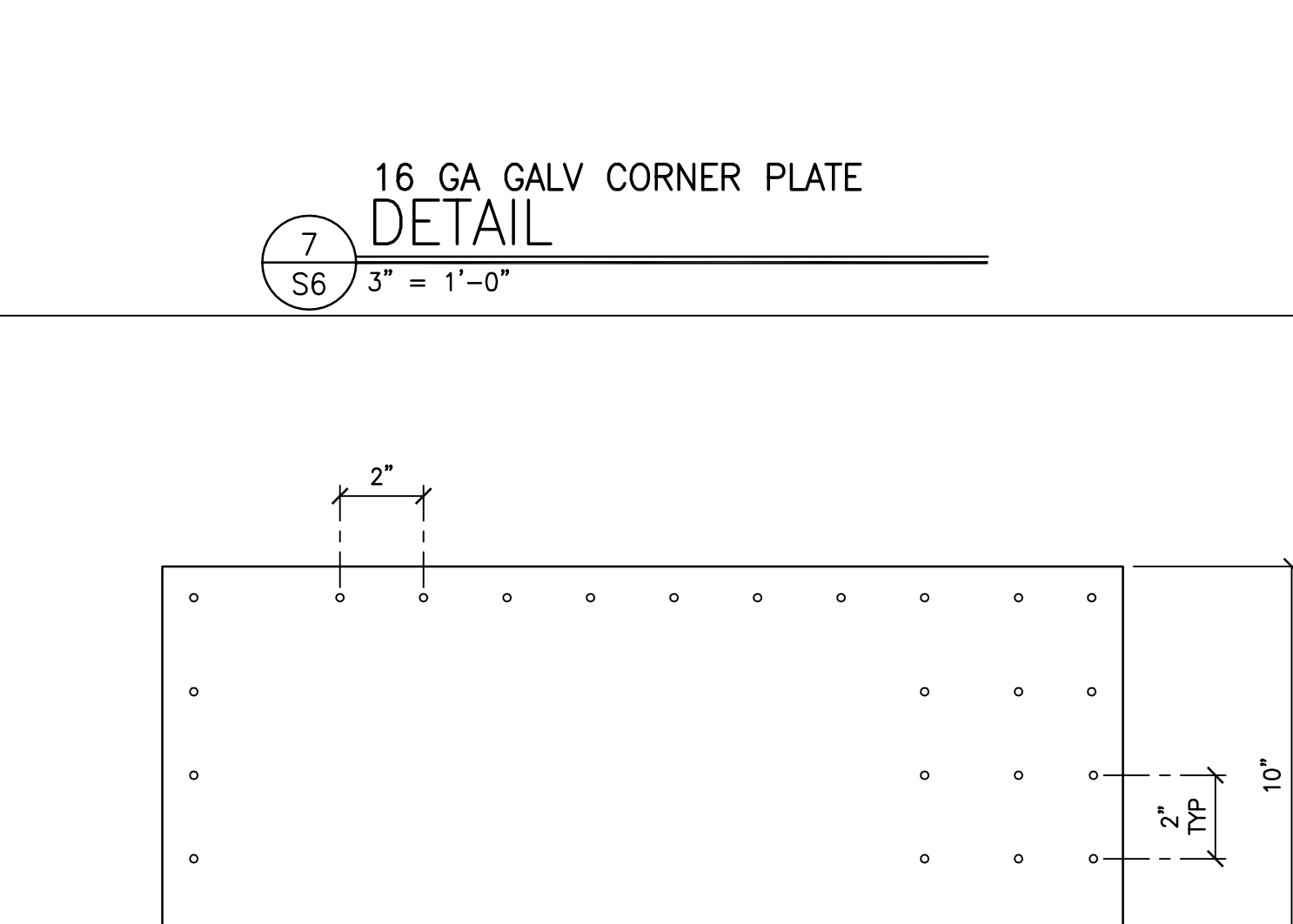
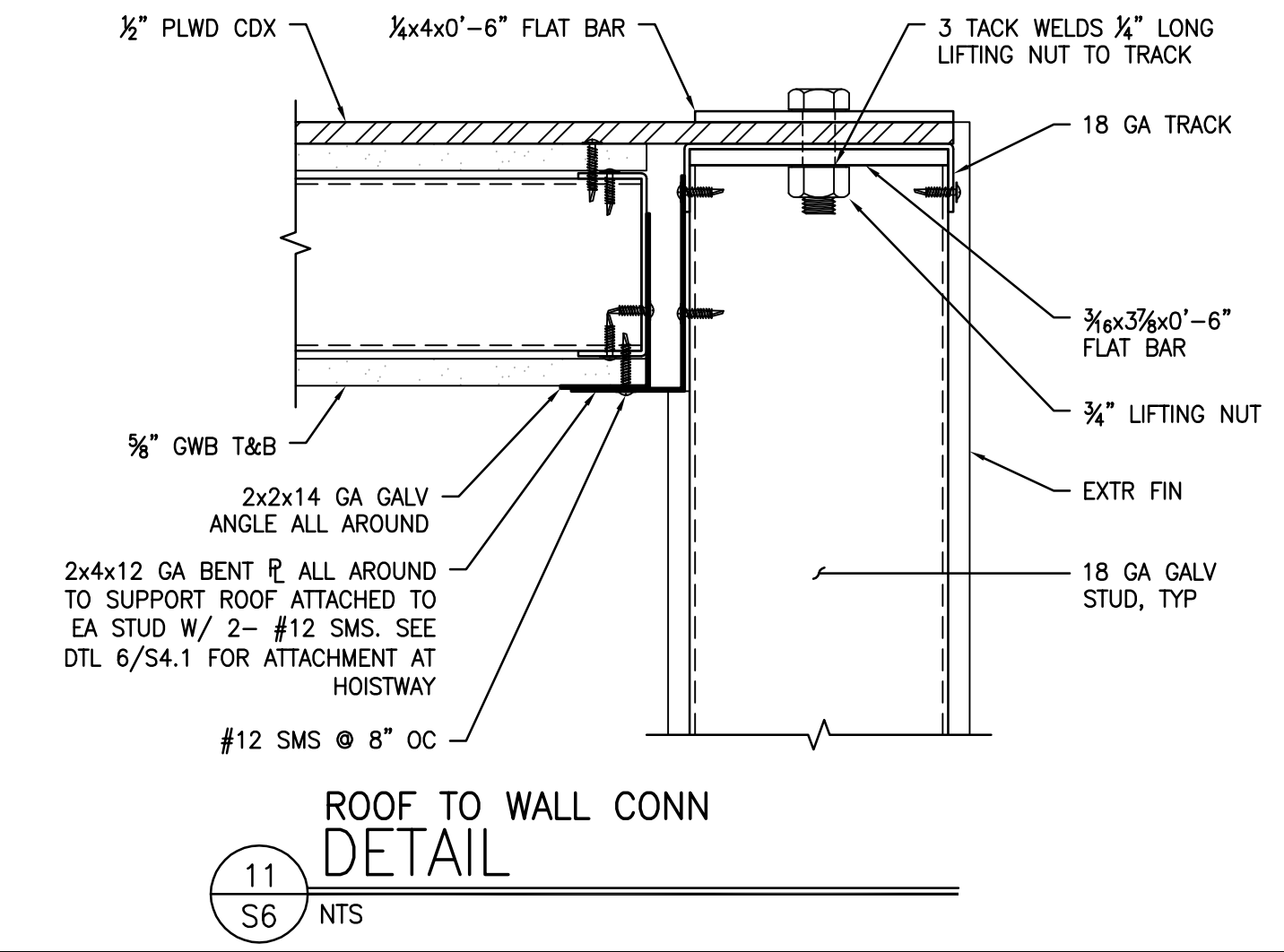
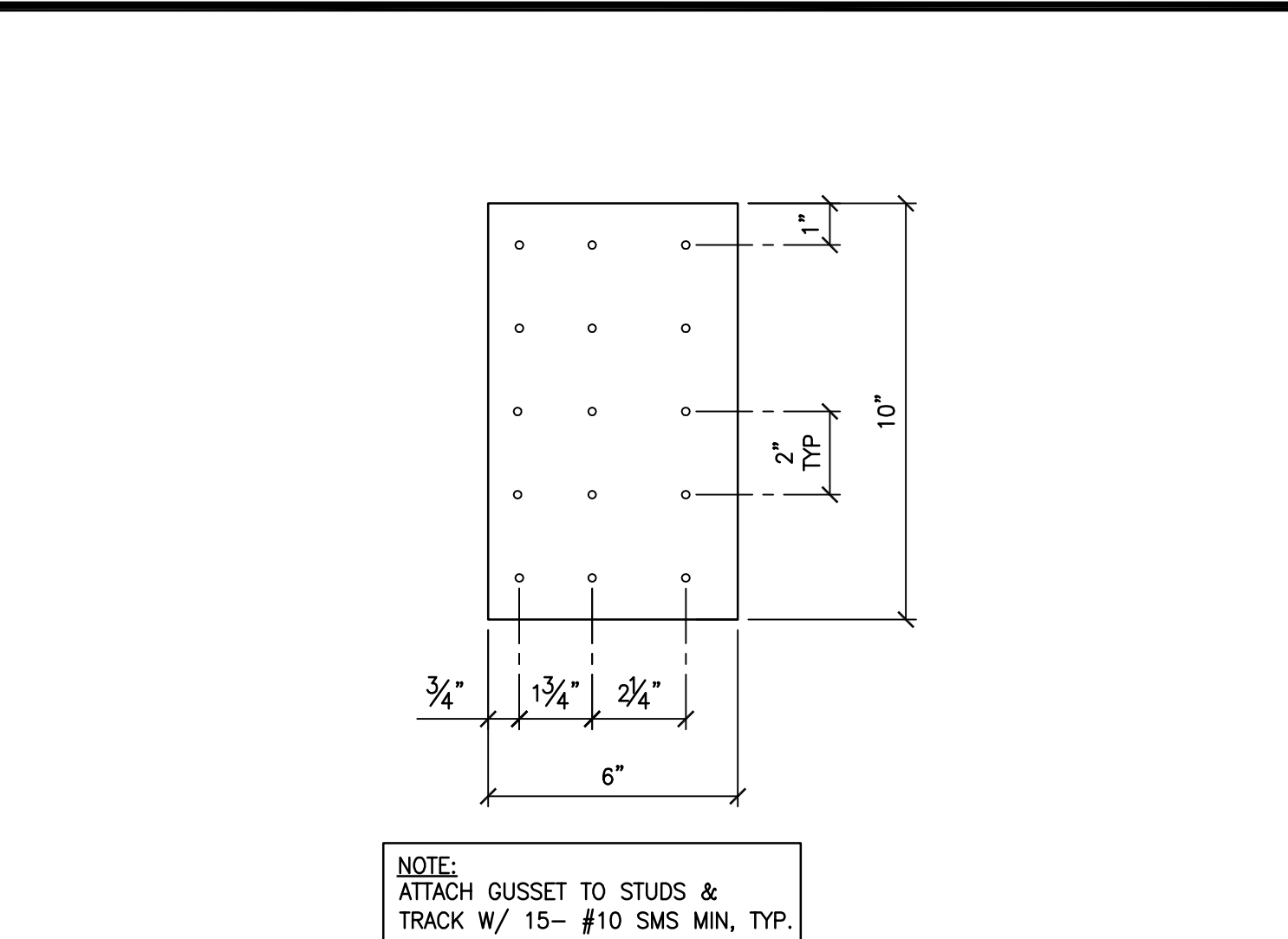
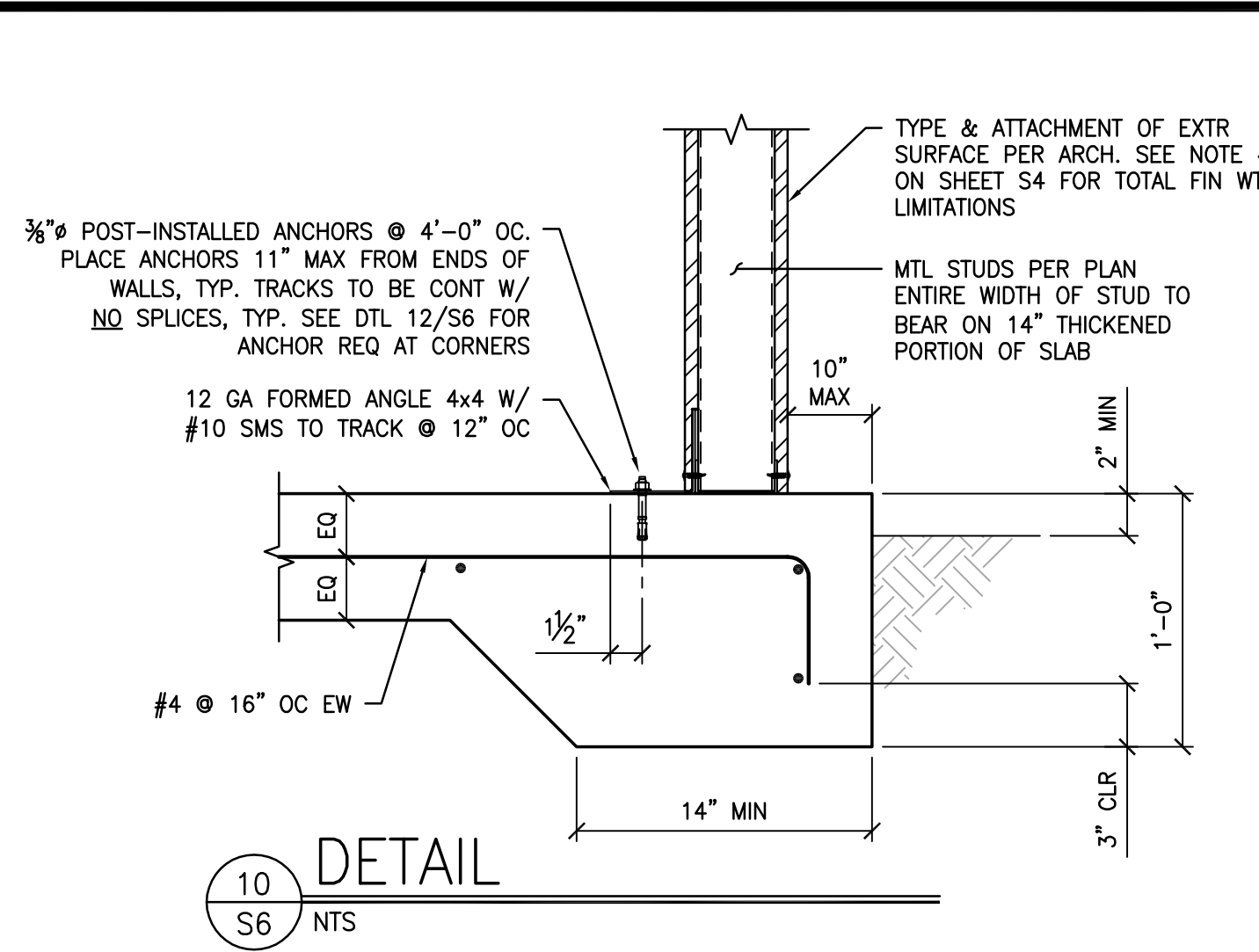
PRE-CHECK (PC) DOCUMENT CODE: 2016  
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SHEET NAME:  
HOISTWAY WALL PANELS

SHEET NO:  
S5.3

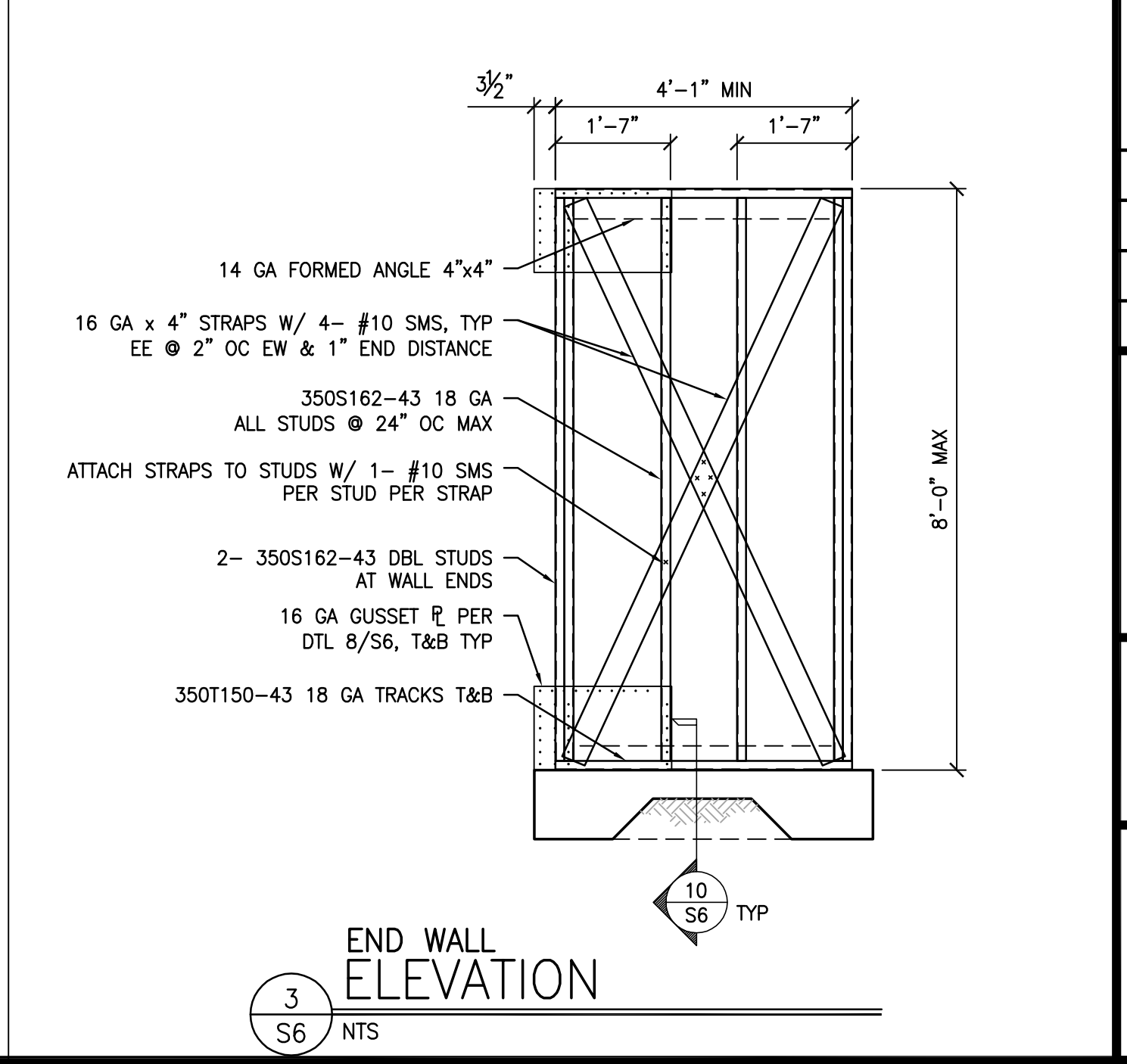
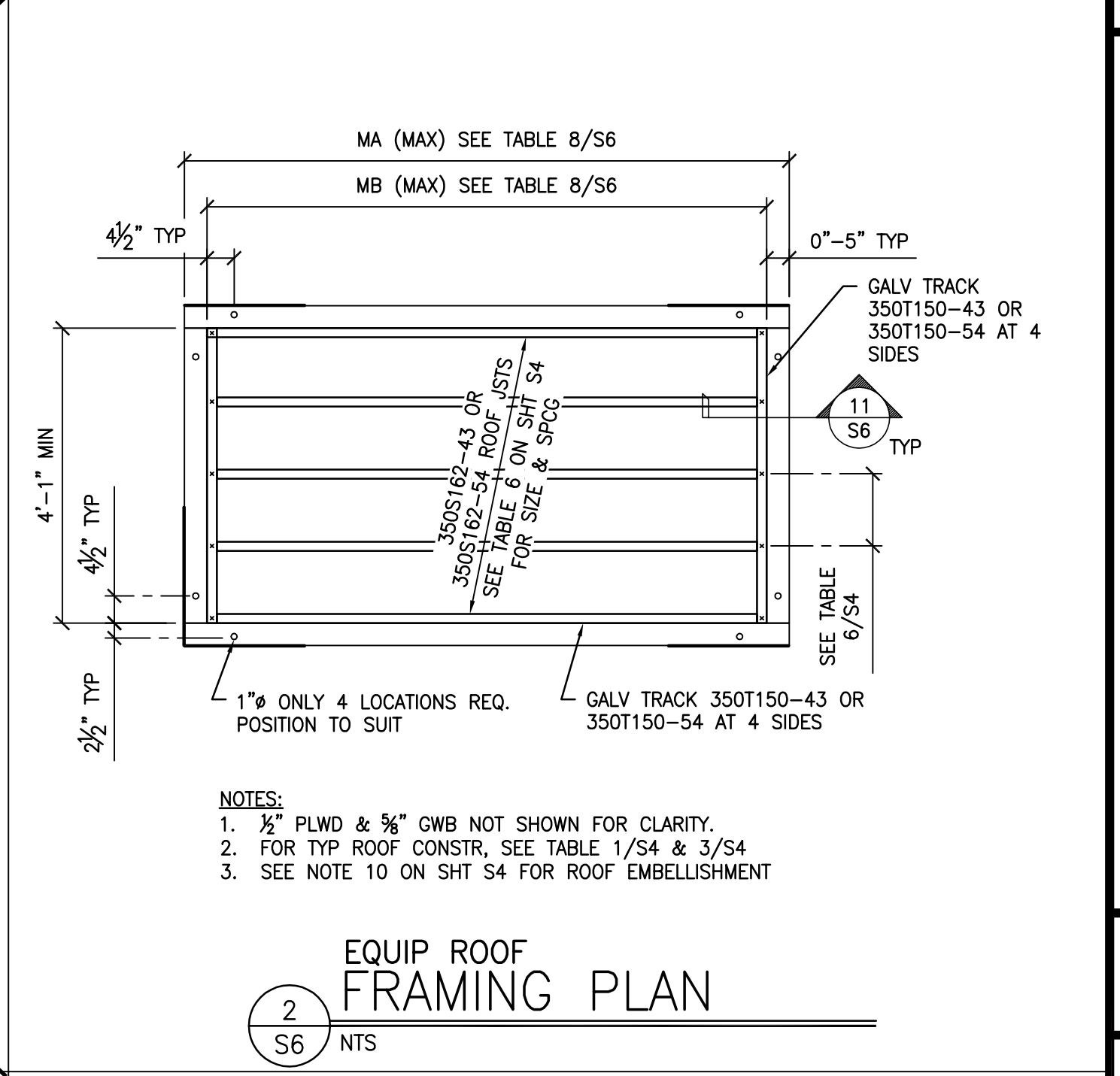
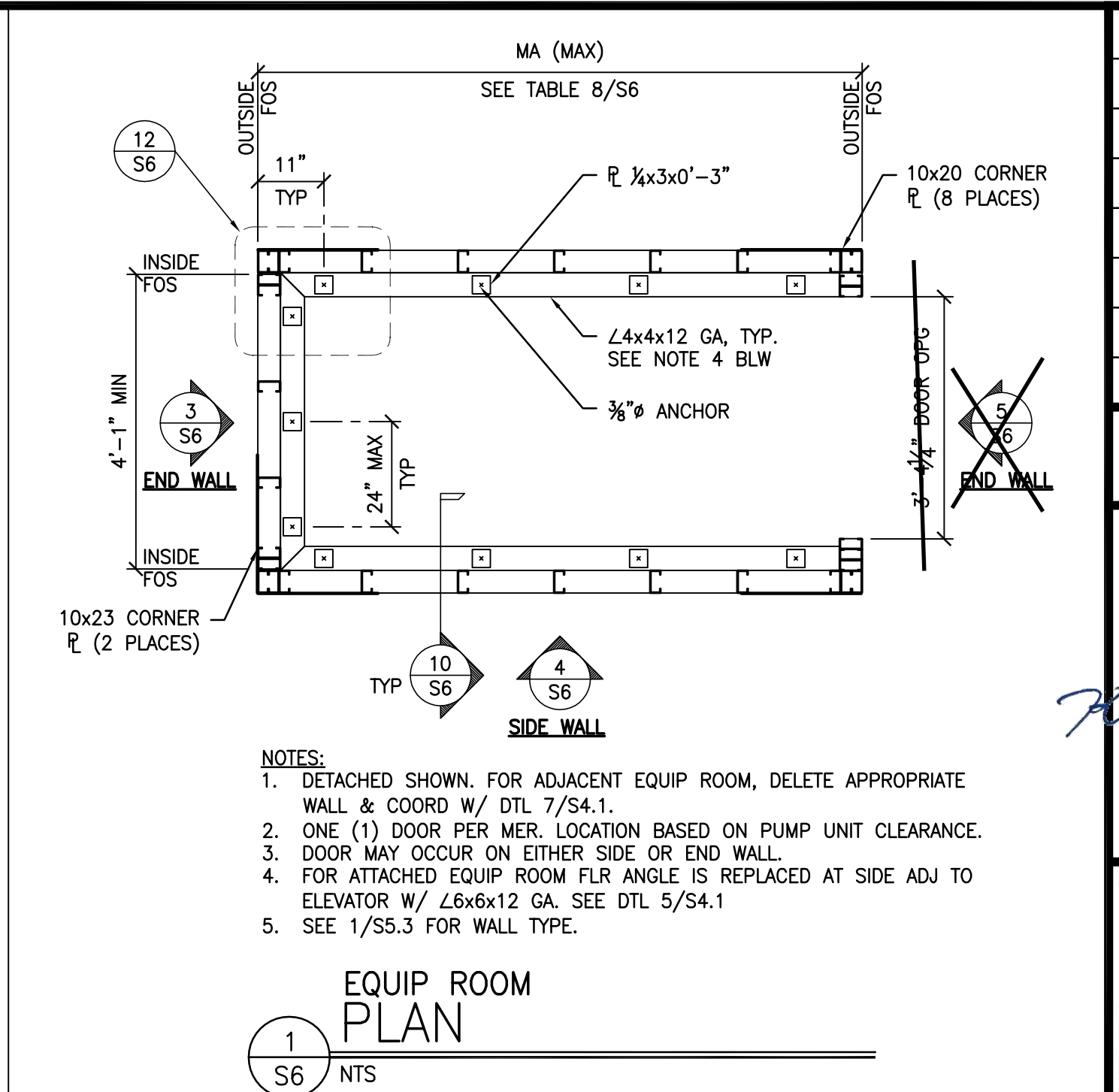
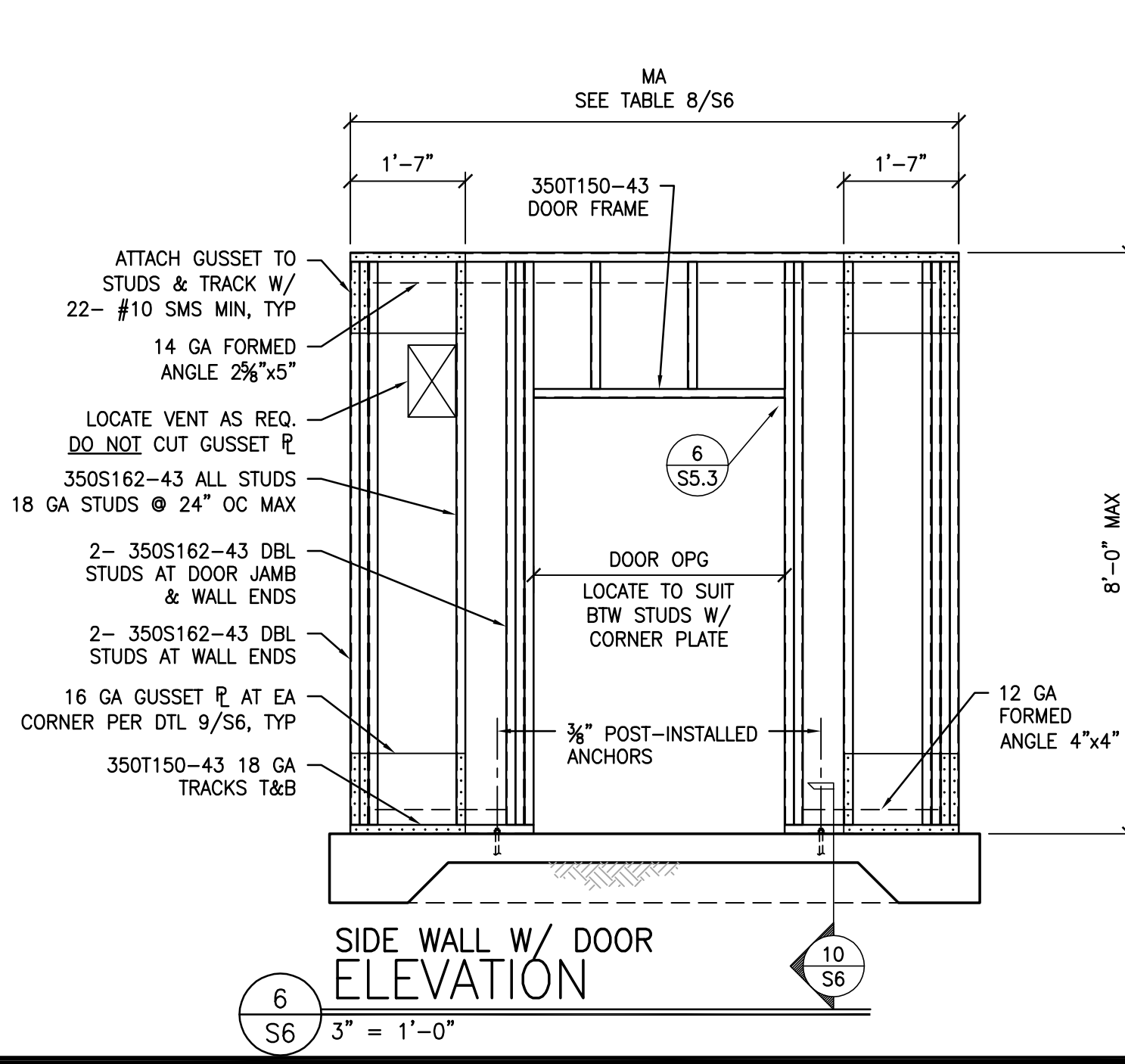
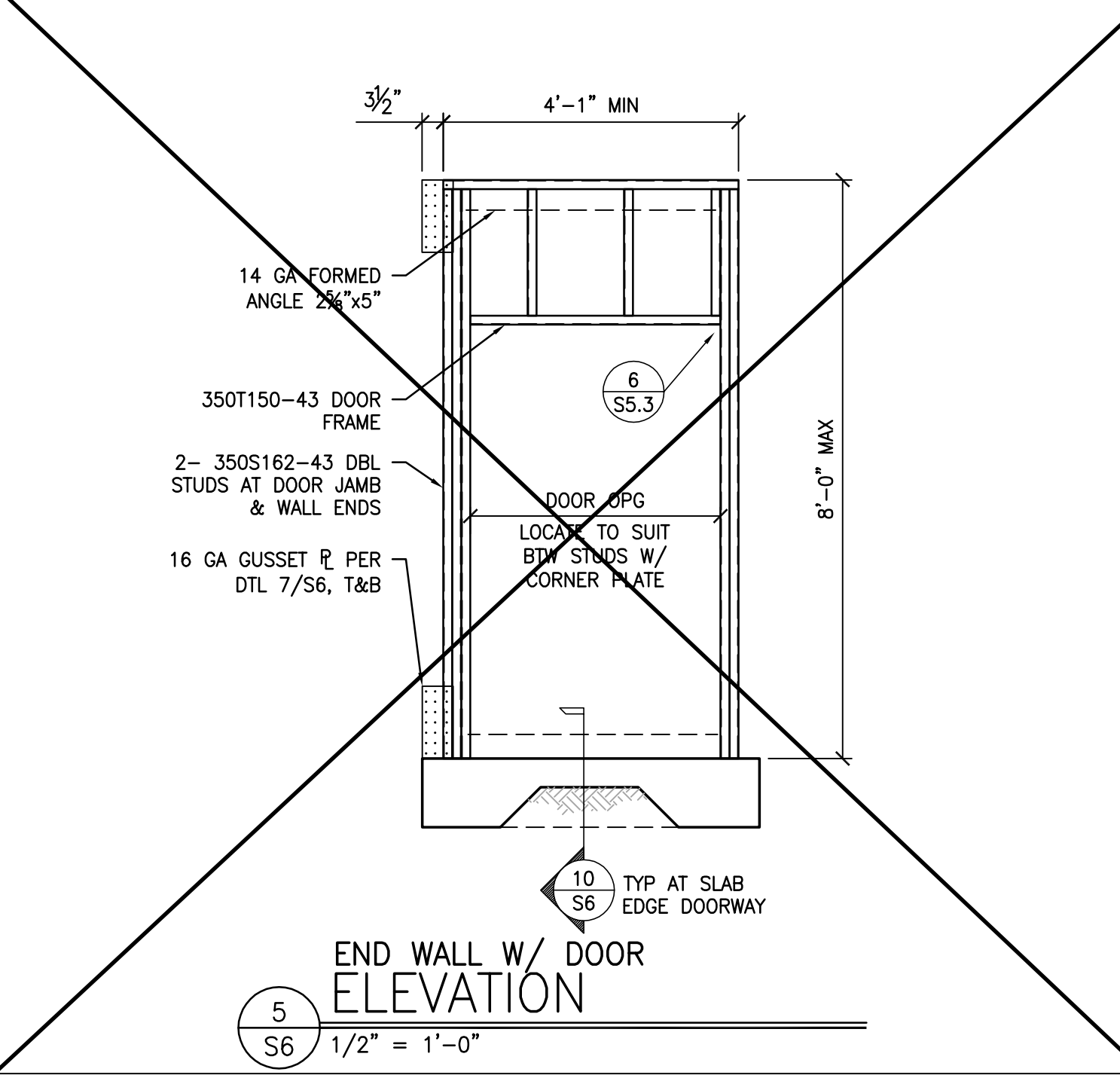
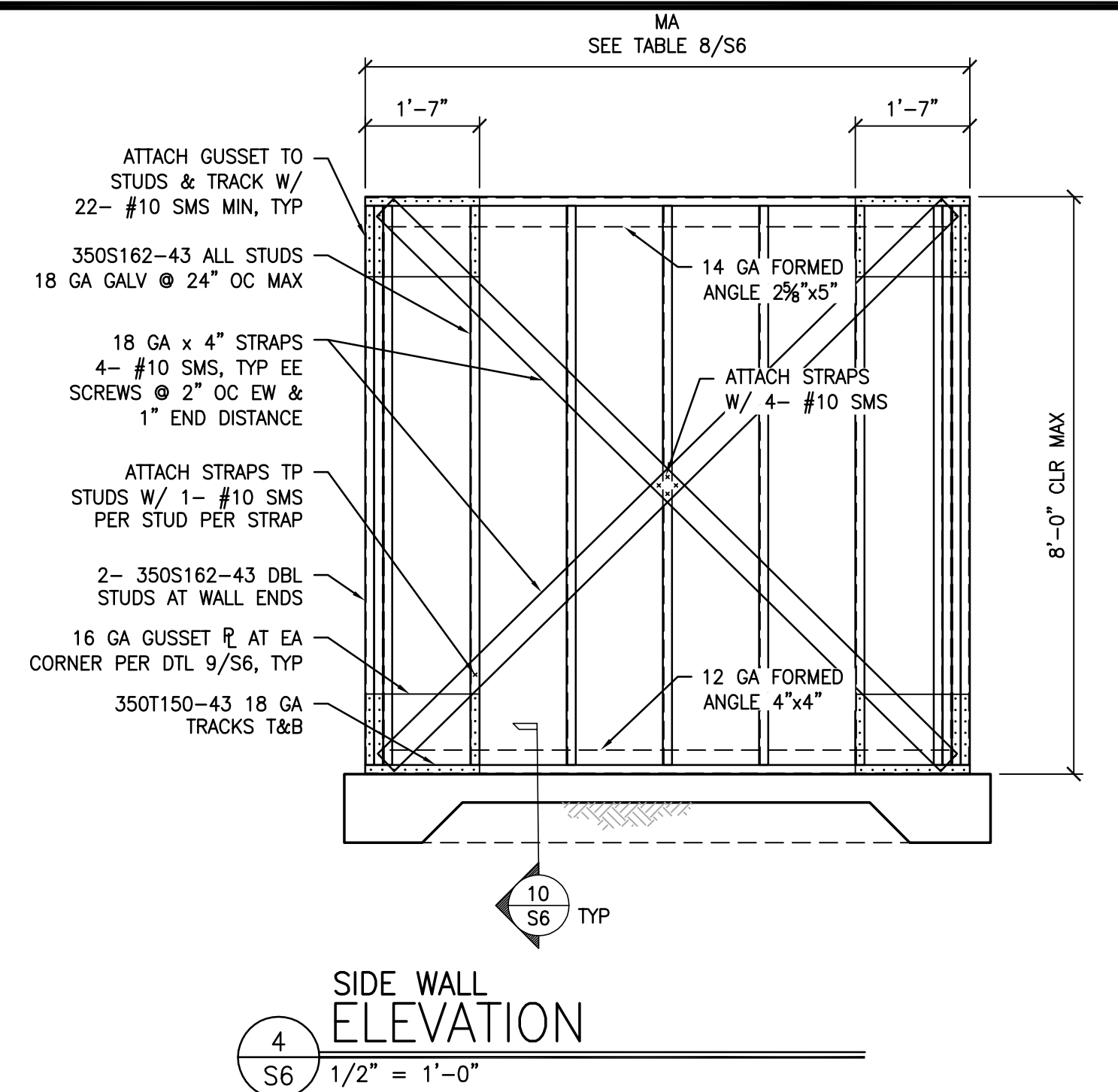
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BID SET 10/01/2021



NOTES:  
1. FIRE-RETARDANT PLWD IS REQ FOR TYPE II CONSTR.  
2. IF 1/2x3/2 CDX PLWD IS ATTACHED ON 3 SIDES (EXCEPT DOORWAY) DIRECTLY TO STUDS W/ #8 SMS @ 6 inch OC AT PLWD PANEL EDGES & 12 inch OC AT INTERMEDIATE MEMBERS, THEN FLAT STRAP BRG IS NOT REQ.

TABLE 8 EQUIP ROOM DIMS				
	SIDE	REAR (HW1)	REAR (HW2)	REAR (HW3)
MA (MAX)	7'-6 1/4"	8'-2 1/4"	9'-2 1/4"	9'-10 3/4"
MB	6'-6 3/4"	7'-6"	8'-6"	9'-2"



NO. DATE REVISION

S.E. PC APPROVAL

REGISTERED PROFESSIONAL ENGINEER  
Kenneth A. Luttrell  
No. 1418  
Structural Engineer  
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

**MEM**  
MODULAR  
ELEVATOR  
MANUFACTURING

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DATE: 10/19/2018  
ENGINEERED BY: KAL  
DRAWN BY: MTC

FILE NO. PC-MEM  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL. 03-118291  
AC/MF FLS/EB SS/MC/MK  
DATE 11/3/2018

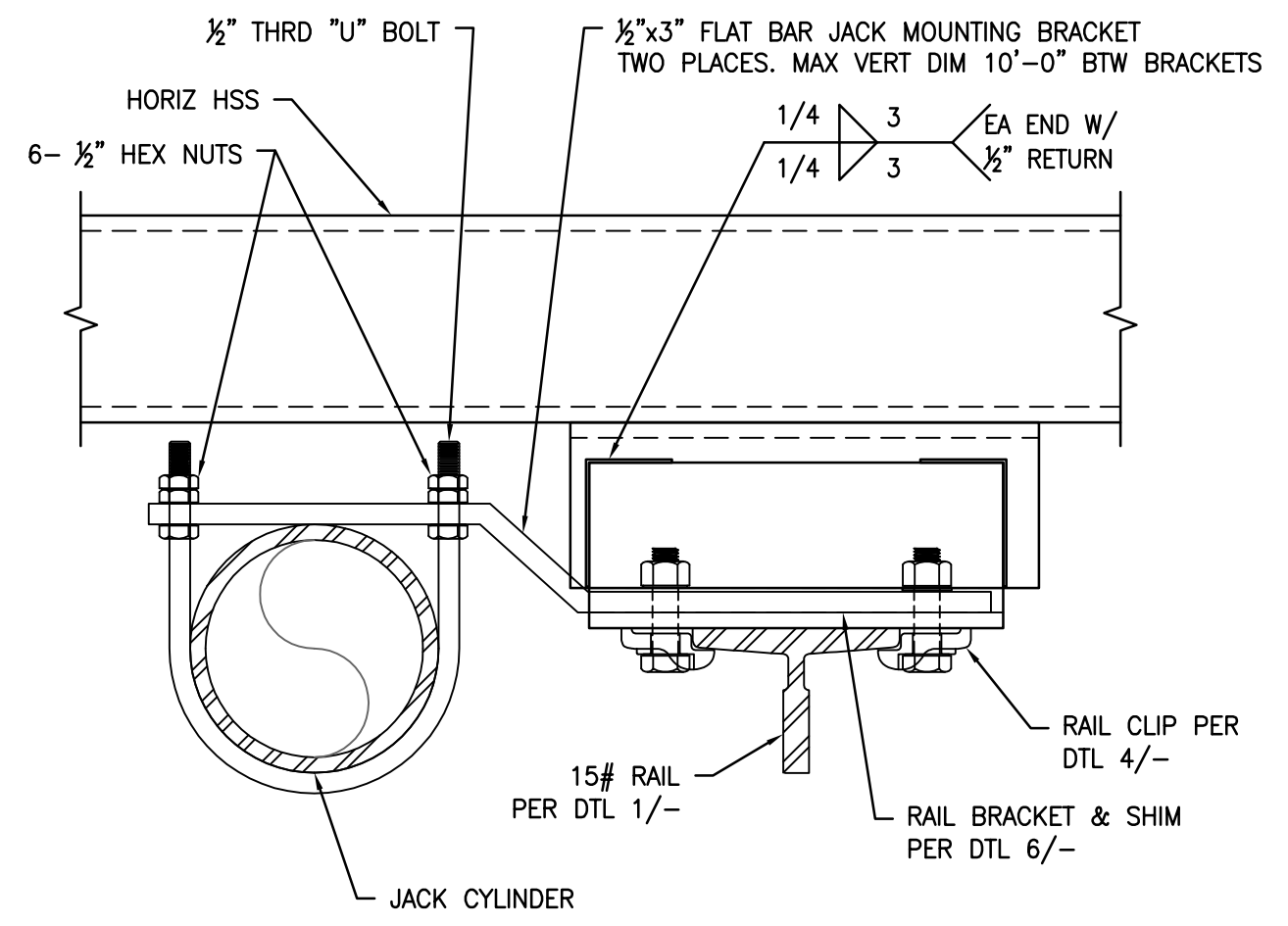
PRE-CHECK (PC) DOCUMENT  
CODE: 2016  
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SHEET NAME:  
**MACHINE ROOM FRAMING PLAN & DETAILS (PARTIAL MACHINE ROOM)**

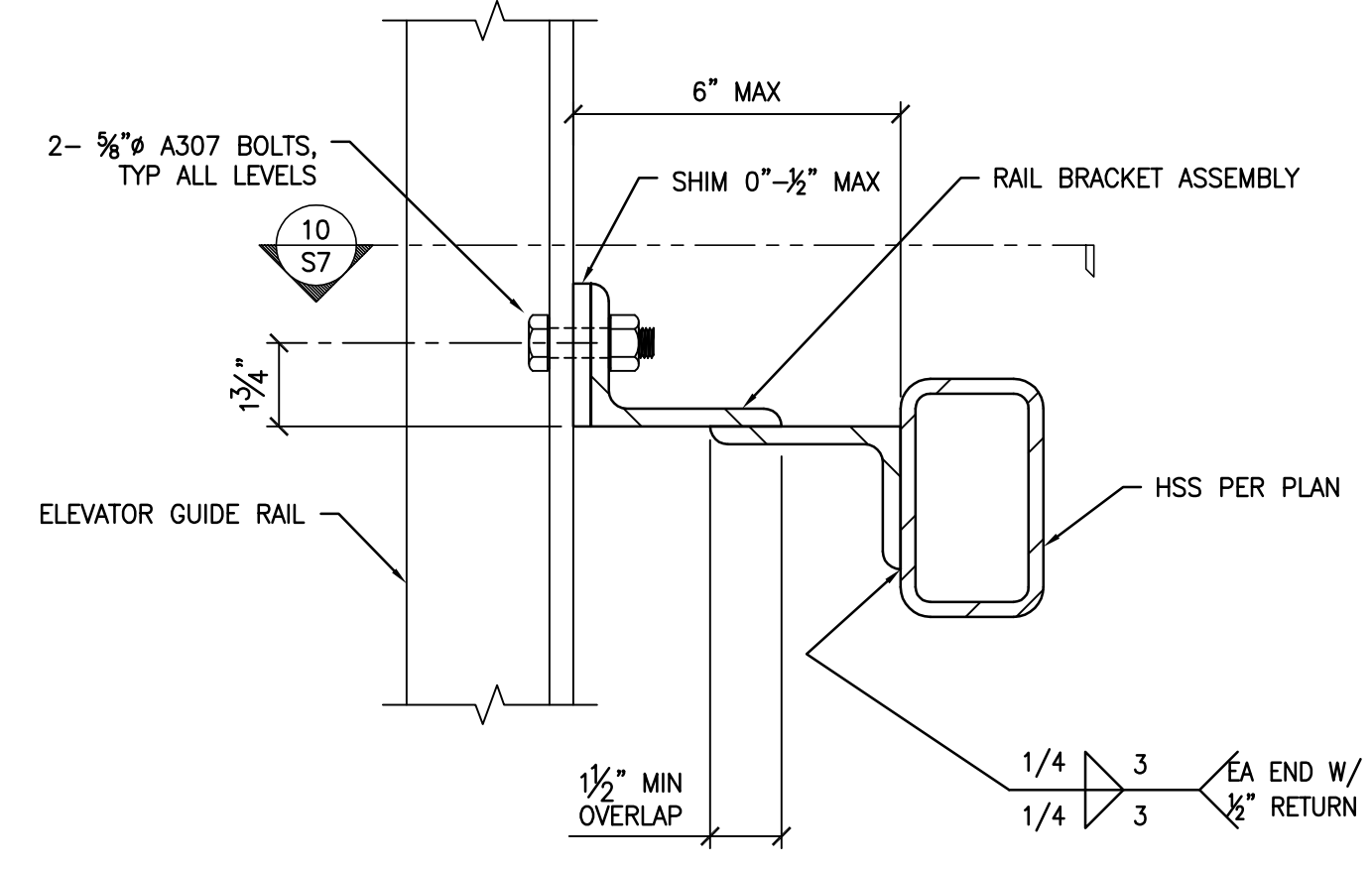
SHEET NO:

**S6**

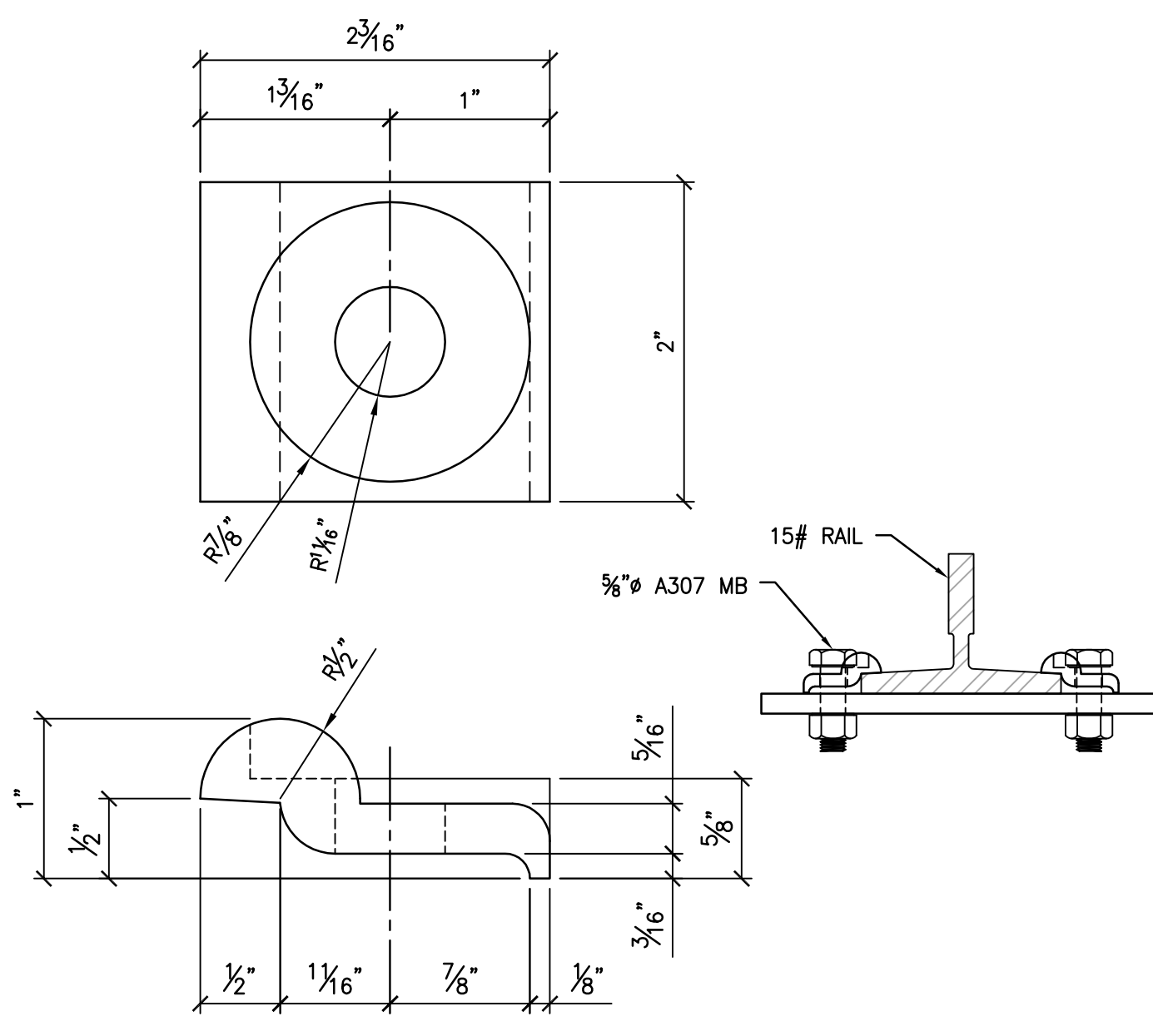
BID SET 10/01/2021



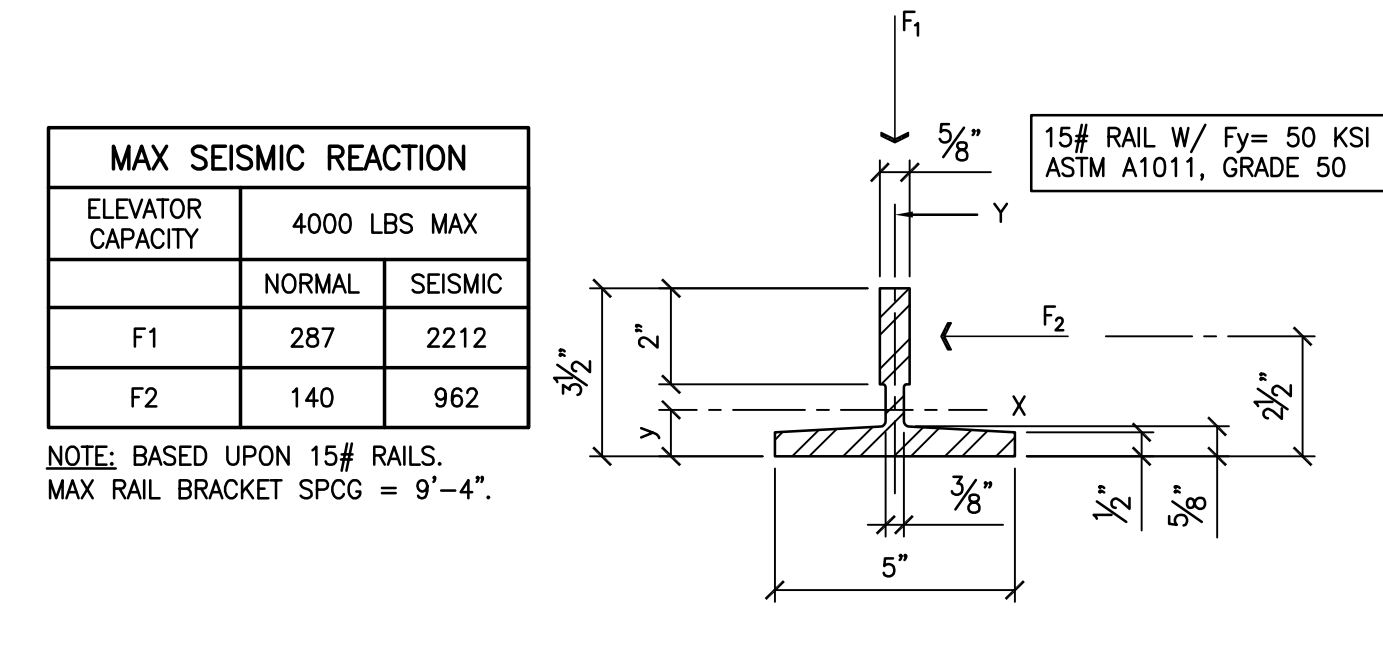
10  
S7  
HOLELESS JACK BRACKET  
DETAIL  
3" = 1'-0"



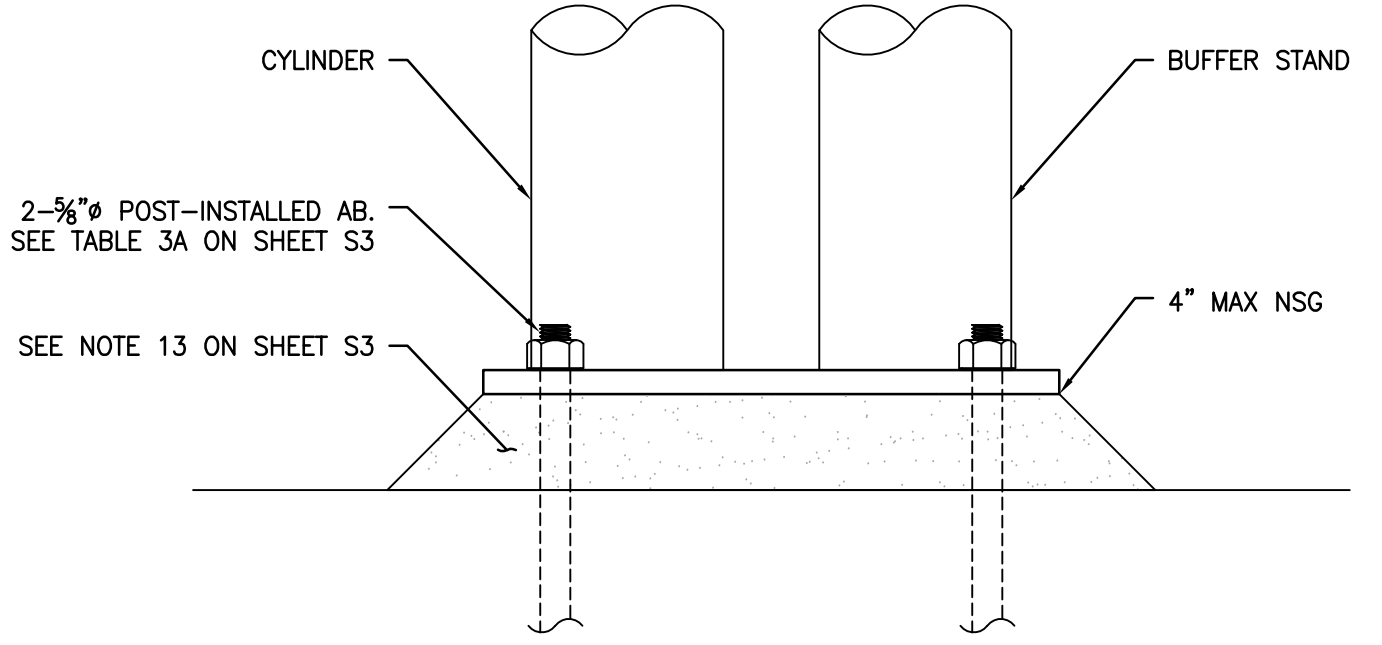
7  
S7  
RAIL BRACKET CONN  
DETAIL  
3" = 1'-0"



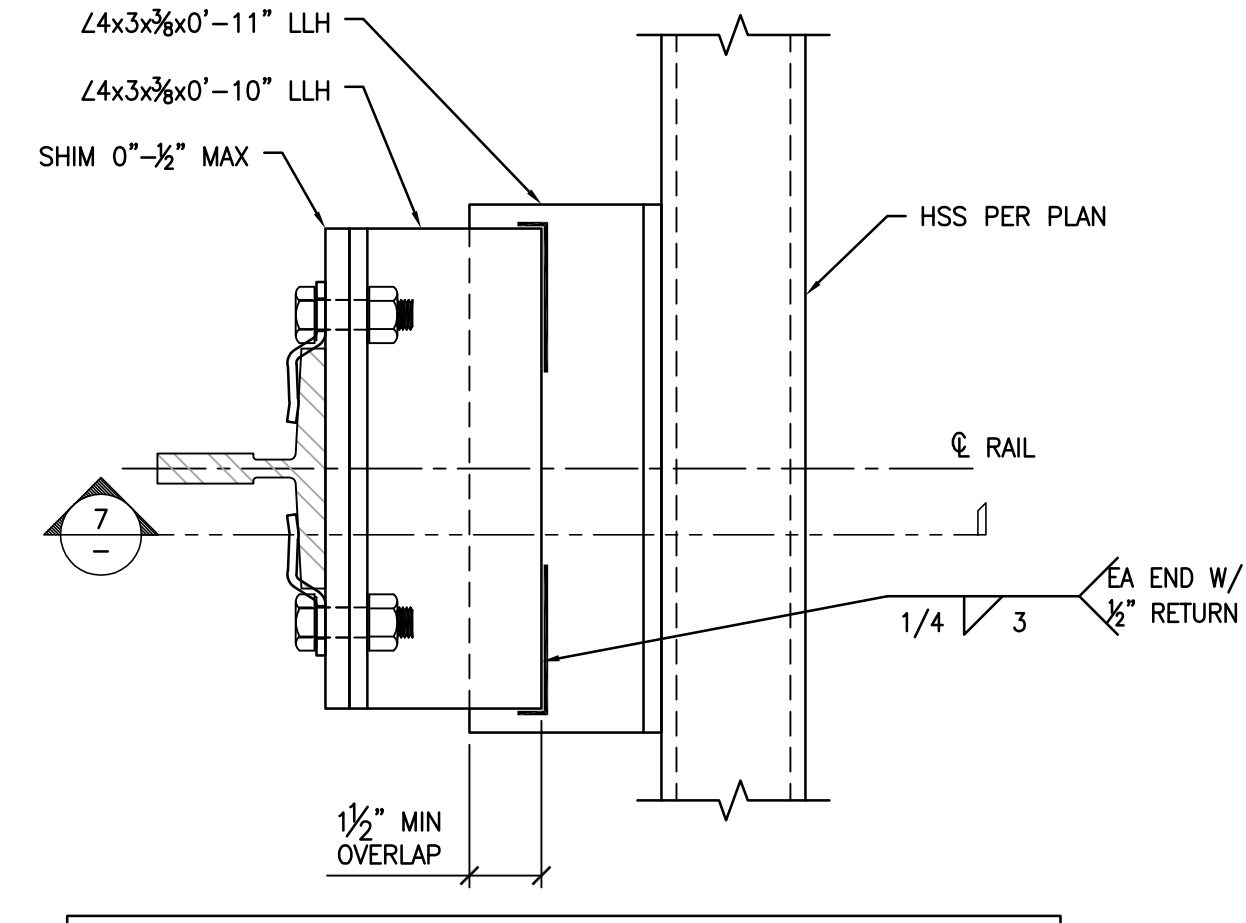
4  
S7  
RAIL CLIP  
DETAIL  
3" = 1'-0"



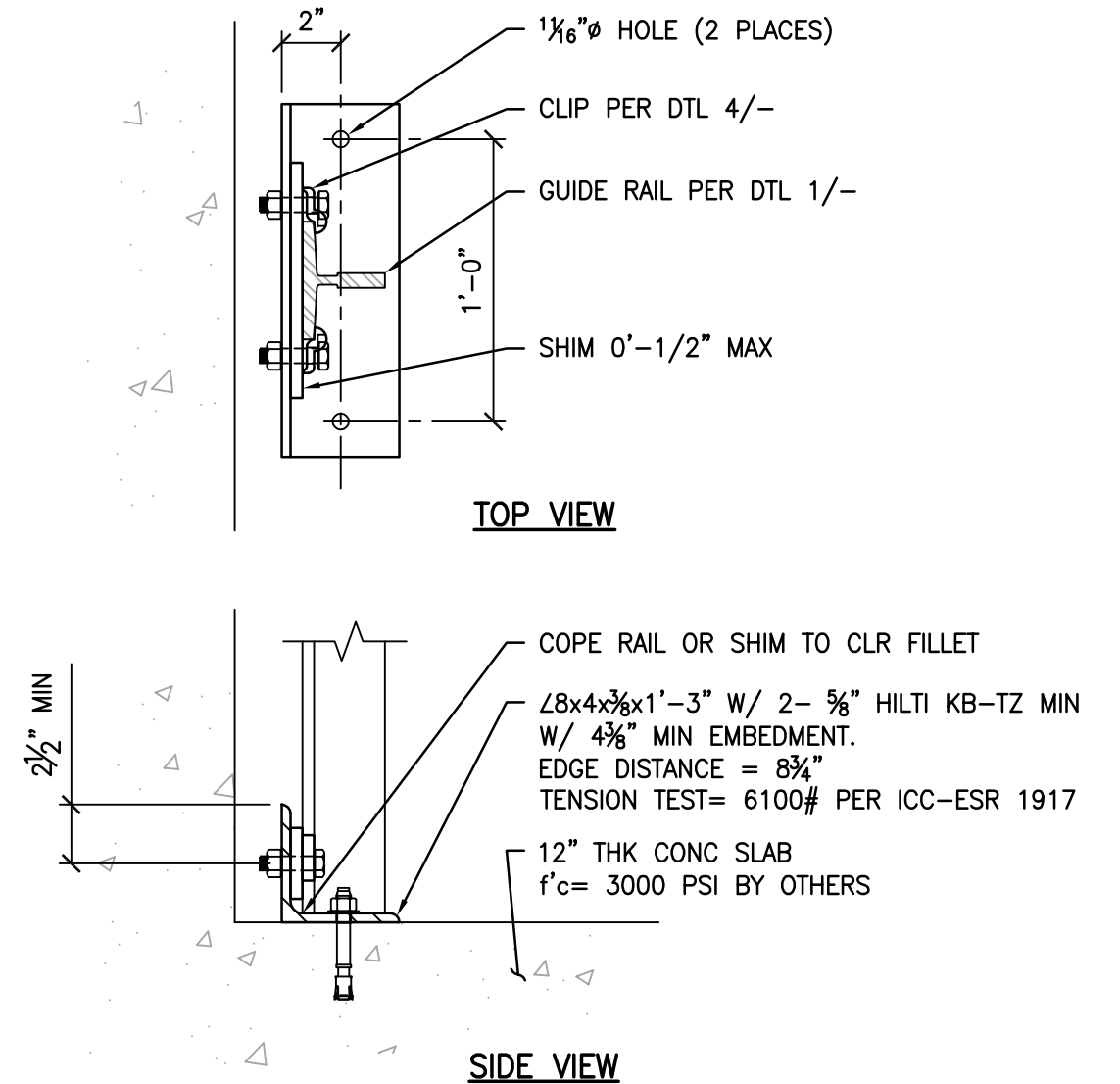
1  
S7  
#15 RAIL SECTION  
DETAIL  
3" = 1'-0"



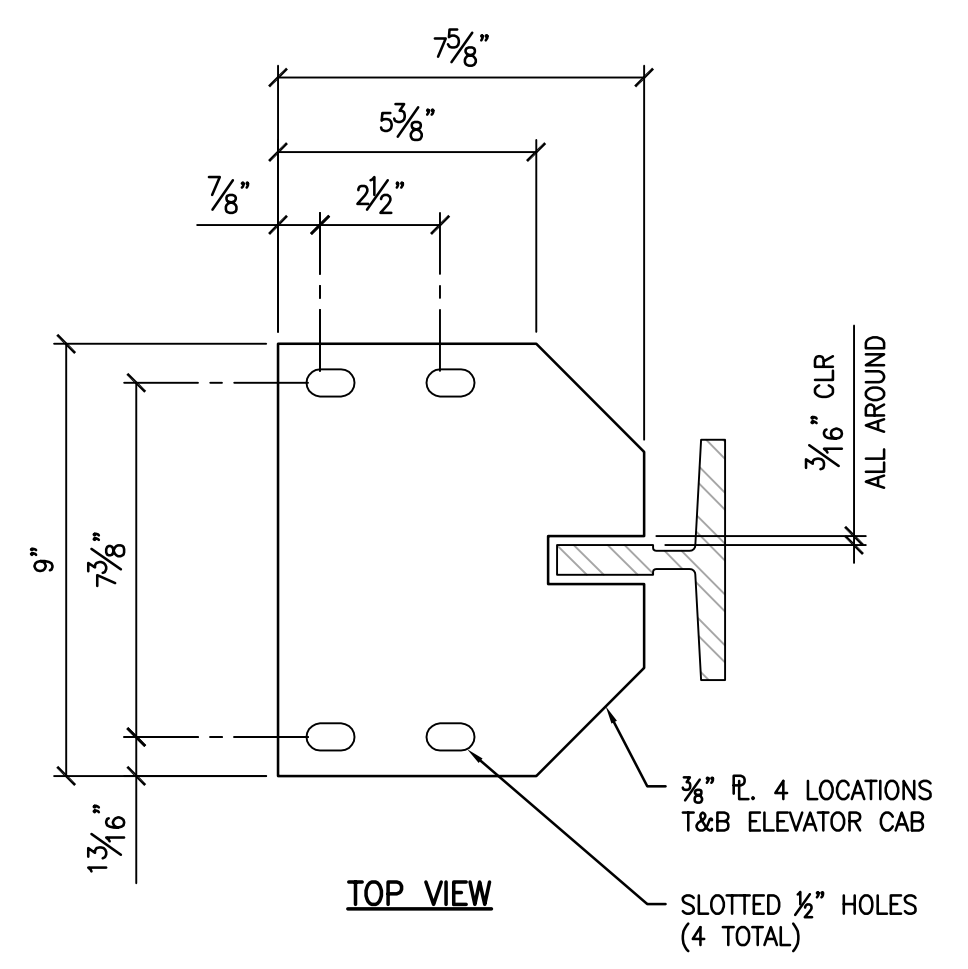
11  
S7  
HOLELESS JACK UNIT TO GROUND CONNECTION  
DETAIL  
3" = 1'-0"



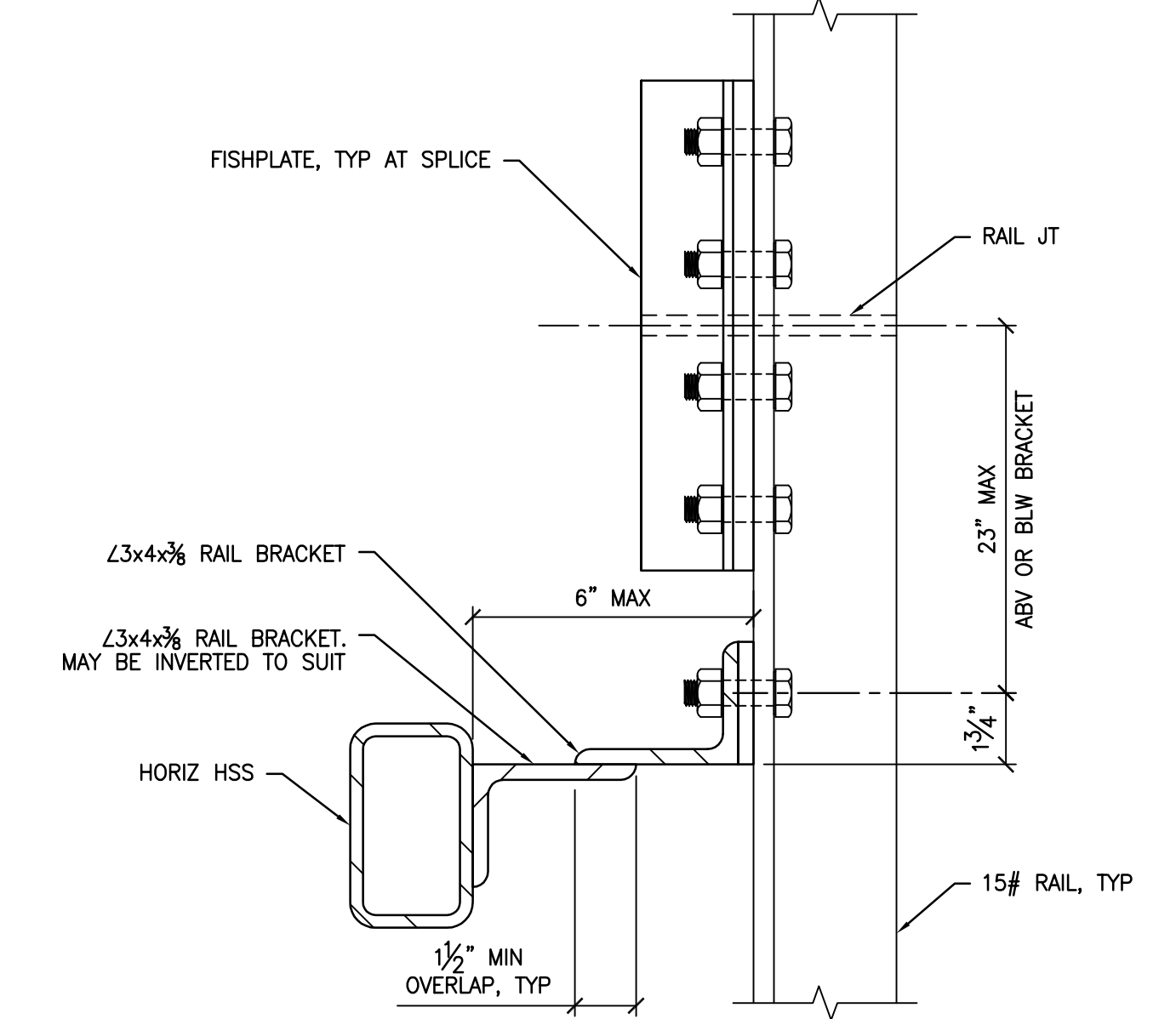
8  
S7  
RAIL BRACKET CONN  
DETAIL  
3" = 1'-0"



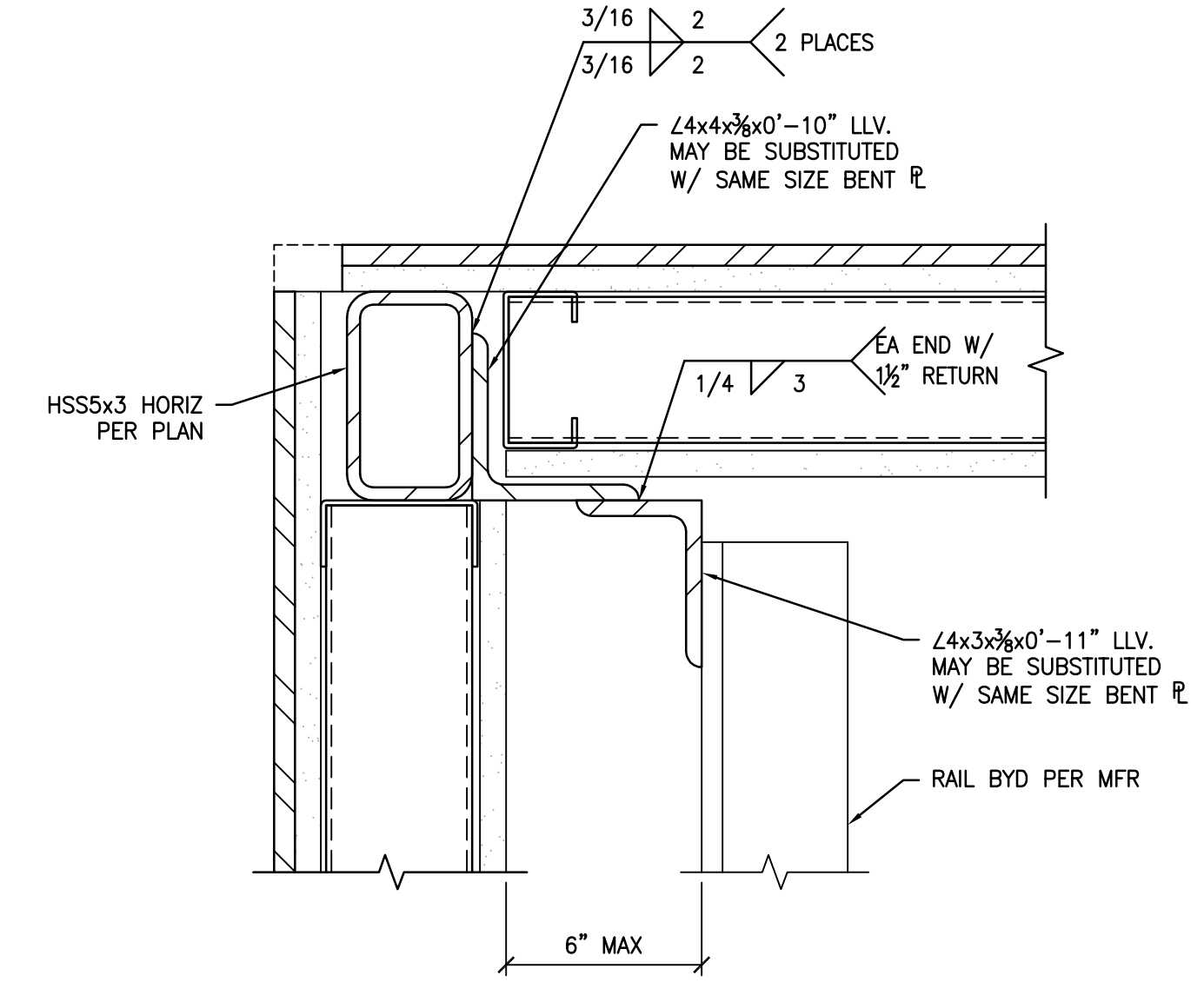
5  
S7  
OPTIONAL FLR BRACKET  
DETAIL  
1 1/2" = 1'-0"



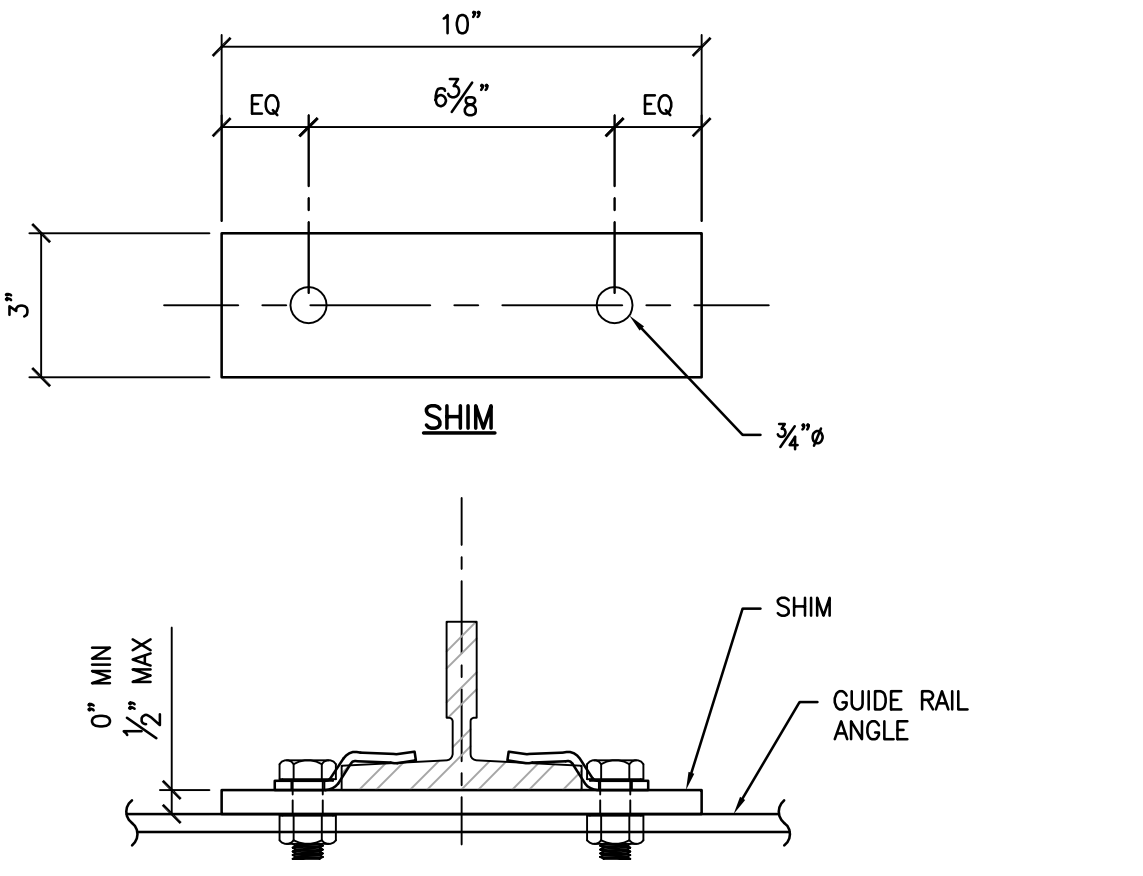
2  
S7  
RAIL RETAINER PLATE  
DETAIL  
3" = 1'-0"



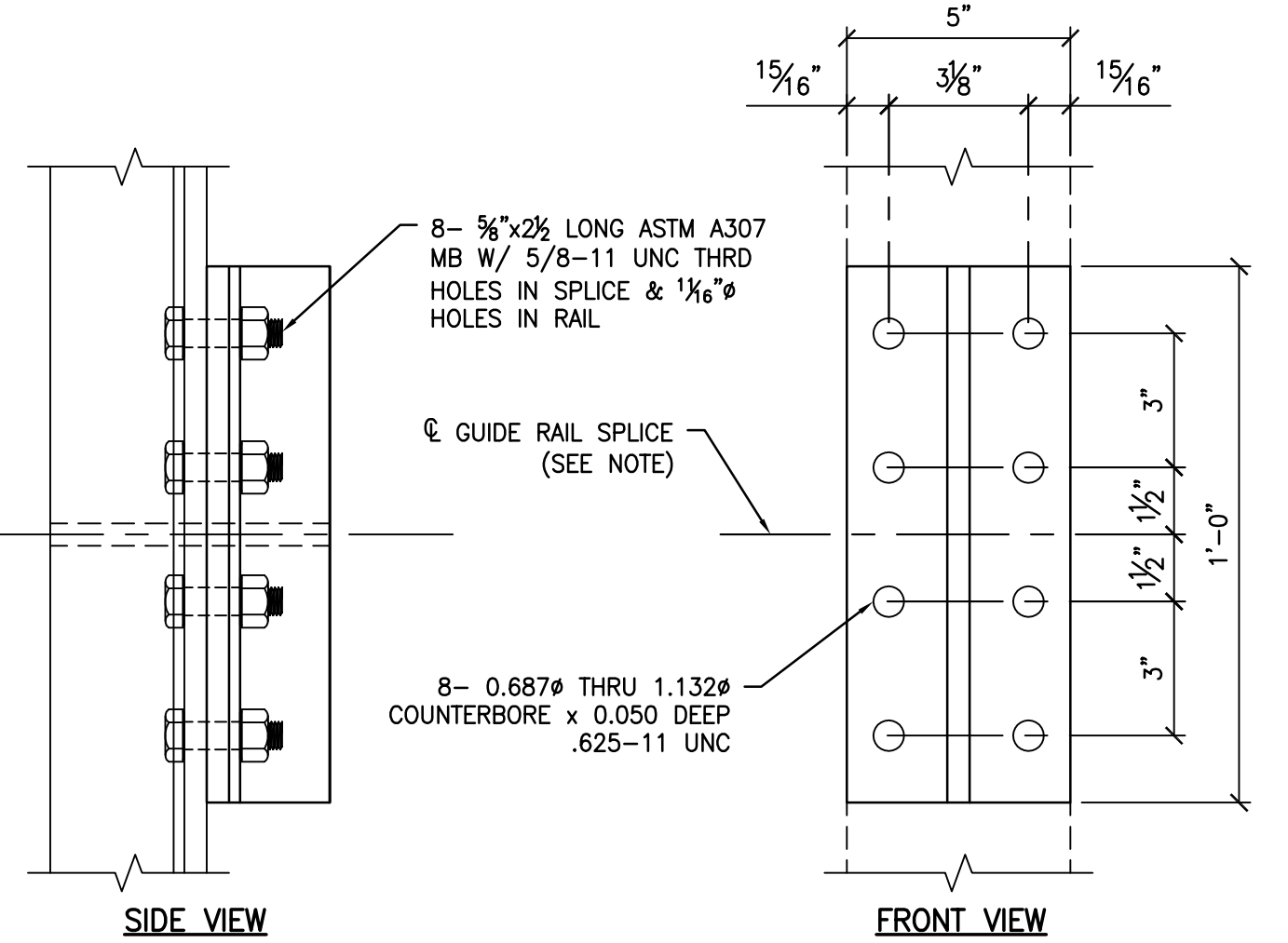
12  
S7  
RAIL SPLICE  
DETAIL  
3" = 1'-0"



9  
S7  
TOP RAIL BRACKET  
DETAIL  
3" = 1'-0"



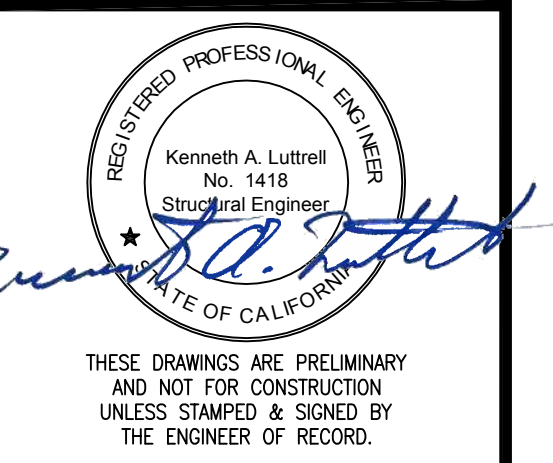
6  
S7  
RAIL CLIP CONN  
DETAIL  
3" = 1'-0"



3  
S7  
FISHPLATE  
DETAIL  
3" = 1'-0"

NO.	DATE	REVISION

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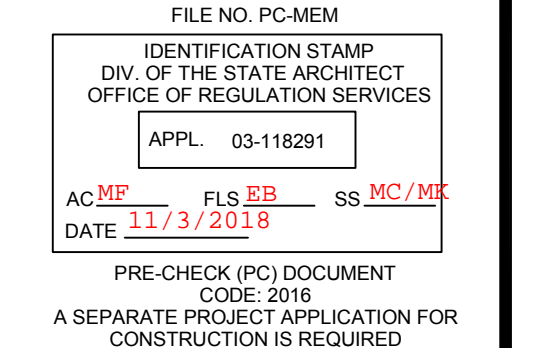


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PROJECT NO: 16093  
DATE: 10/19/2018  
ENGINEERED BY: KAL  
DRAWN BY: MTC



SHEET NAME:  
**RAIL & POWER UNIT DETAILS**

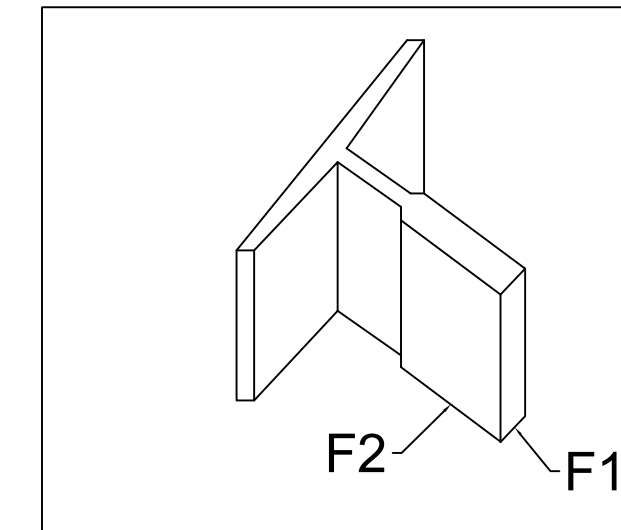
SHEET NO:

S7

BID SET 10/01/2021

**THE FOLLOWING REQUIREMENTS ARE TO BE PROVIDED BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED :**

1. Setting of anchor bolts and sleeves, plumb and level GC MUST utilize the setting template provided by Elevator Contractor. GC must insure that anchor bolts and sleeves are properly secured to avoid movement during concrete pour, are clean of all debris prior to setting of the hoistway, and are positioned as per plans and verified.
2. Any concrete coring, if required, of the pit walls for feedline and electrical conduit penetrations. Coring to be performed AFTER hoistway is set in place. All water proofing.
3. Any grouting of the sills or hoistway frames, if required.
4. Machine room slab and foundation as required.
5. All Electrical service to the elevator machine room. All electrical must comply with the current version of the California Electric Code (CEC) and / or the National Electric Code (NEC) as they apply for new elevator installations. GC shall provide the following:
  - a. Electrical service to the machine room and connection to the disconnect must be stubbed out in the proper location within machine room.
  - b. All electrical wiring, including low voltage wiring, within the machine room must be EMT or rigid conduit.
  - c. Electrical service to elevator motor as indicated on the elevator drawings. (See elevator layout drawings).
  - d. 110 V 20 amp dedicated service for elevator car
  - e. 110 V 20 amp dedicated service for the hoistway.
  - f. 110 V 20 amp dedicated service for machine room circuit
  - g. Dedicated telephone line to the machine room terminated at a jack, and live. (Ring down features are not acceptable.) GC is responsible for submitting the telephone number to be programmed into elevator telephone system, and the actual telephone number of the dedicated telephone line for the elevator.
  - h. Smoke detector in machine room with one set of normally closed dry contacts for the elevator.
  - i. Fire signaling device at each landing with one set of normally closed dry contacts (egress floor must be "closed" contacts) for the elevator, wired back to the machine room and must be operational.
  - j. Grounding of the hoistway and equipment room structures including grounding and lightening rods.
6. The machine room cannot be used for the storage of ANY items.
7. All trenching from machine room to pit. Trench must be 18" - 24" wide. Trenching is required for ALL remote machine room applications. All trenching must be done prior to the pouring of the machine room slab, piping will be run in trench from machine room location to outside of the pit wall and terminated until elevator is set. If elevator can be set prior to machine room pad being poured then full run can be completed in trench from hoistway to the machine room.
8. Underground secondary pipe containment (double wall pipe) drainage point to be provided at point convenient to piping system and with services at that drainage point for leak detection devices. (If required.)
9. Leak detection signaling device to be located within 10' of actual detection device. (If required.)
10. All back filling. Back filling must be coordinated with the elevator contractor after all feedlines and conduits have been installed and tested.
11. Access to the hoistway for other trades is not included. Stand-by time shall be considered an additional cost and billed at elevator rates.
12. Electrical, plumbing or mechanical equipment may not be placed or run in the hoistway or machine room unless approved by Elevator Contractor.
13. All inspections and fees for any government mandated factory inspections. Arrangements must be made prior to production commencement.
14. GC shall be responsible for insuring that at time of delivery the site will be ready for setting of the elevator
  - a. All forms are removed from the pit
  - b. Pit dry.
  - c. Anchor bolts are clean and sleeves clear of debris.
  - d. Crane access available.
15. GC to insure that pit is kept in a dry condition and structure is protected from inclement weather. Damaged materials and / or extra labor resulting from water shall be an extra cost to the elevator contract.
16. Execution of crane company's waiver of liability forms.
17. GC shall be responsible for any damage resulting from driving crane onto site, being set onto the site and during the placement of the elevator hoistway. This includes, but not limited to damage to: Trees, any concrete, curbs, driveways, walkways, lawns, asphalt, gates, fences and underground utilities.
18. GC is responsible for appropriate site access for crane set and equipment delivery. A minimum 70-foot working radius is required for the crane. This includes but is not limited to:
  - a. Traffic control
  - b. Special provisions related to power lines, trees, occupied buildings, FAA permits, etc.
  - c. Any and all fencing removal and replacement for crane and truck access.
  - d. All removal must be done prior to arrival of crane on site.
  - e. Any and all vegetation removal or trimming for crane and truck access to elevator final destination.
  - f. Protection to all concrete, asphalt, curbs, walkways, building and underground structures, landscaping affected by crane and truck access and set.
19. Unless otherwise noted: Crane set of elevator is based elevator set taking place mid-week mornings between 7:00 AM and 11:00 AM with 70-ton crane.
20. Structural attachment of hoistway to existing structure. (if required)
21. Removal of any obstructions necessary to install the equipment.
22. Site gurney compliance via stairs or other means, if required.
23. Installation of any building expansion joints, if required.
24. For holed elevators only, the cost for drilling the wellhole is based upon four (4) hours of drilling; utilizing a standard truck mounted drilling rig and drilling through normal soil conditions. GC is responsible to provide free, unobstructed access to the site for our truck mounted drill rig. Free access means adequate and unrestricted access to the pit as required for the move-in of equipment for the purpose of drilling the cylinder well. Should driller encounter any obstruction, including but not limited to rock, boulder, water, quicksand or any other unusual soil condition or should driller be required to utilize any special tools, an additional cost will be added to the Contract. Any costs beyond drillers standard drilling shall be considered as a result of conditions beyond the reasonable control of Elevator Contractor. & those additional costs will be charged back to the GC. All drilling spoils are to be removed.
25. Cab flooring and appropriate sub-flooring.
26. Vent in machine room. Machine room temperature shall not be lower than 40 degrees Fahrenheit or exceed 104 degrees Fahrenheit or exceed manufacturer's recommendations.
27. Venting of hoistway (only applicable for elevators with more than two stops).
28. Sprinklers, or heat sensors in the machine room and / or hoistway (if required). If sprinklers are provided, the shunt trip devices must also be provided.
29. Flashing between structures at locations including, but not limited to, the: pit, slab, modular equipment room roof and hoistway. These locations must be detailed and provided for water tightness.
30. "ABC" type fire extinguisher in machine room.
31. Exterior finish of the hoistway and machine room.
32. Exterior and interior painting or finishing.
33. Parapets, downspouts, scuppers, embellishments as well as any other modifications beyond details shown on manufacture's shop drawings.
34. Finished roofing.
35. Verification of correctness of placement of elevator pit is by others. Elevator company is to install elevator in pit provided by others.



MAXIMUM SEISMIC REACTION		
ELEVATOR CAPACITY	4000 LBS. MAX	
	NORMAL	SEISMIC
F1	287	2212
F2	140	962
BASED UPON 15# RAILS GR 50.		
MAX RAIL BRACKET SPACING = 9'-4"		

MAX FORCES ON PIT FLOOR	
LOCATION	FORCE IN LBS.
AT JACK (BOTH)	13,740
AT EA. BUFFER	14,740

BUFFERS ARE LOCATED APPROX. 12" FROM  $\phi$  OF JACK UNIT IN A LINE PARALLEL TO WIDTH OF HATCH

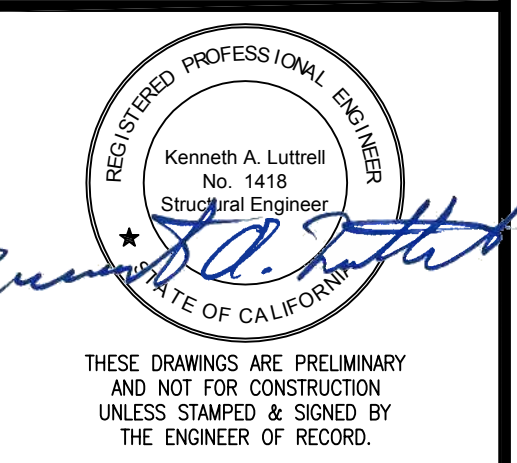
MAXIMUM ALLOWABLE SPECIFICATION & DATA	
<b>MODEL</b>	ALL
CAPACITY (LBS)	4000
HOISTWAY MODEL	ALL
TYPE	PASSENGER
OPERATION	SIMPLEX COLLECTIVE
LOADING	CLASS A
POWER SUPPLY	208 - 480 VOLTS / 3 PH / 60 HZ
MOTOR STARTER	VARIABLE
CONTROL TYPE	MICROPROCESSOR
DOOR OPERATOR	GAL MOVFR II
SPEED (FPM)	100 - 150 FPM
LANDINGS	2 TO 7
OPENINGS	4 FRONT / 3 REAR
TRAVEL	37'-9" MAX
CROSSHEAD	C5 X 9#
STILE	C8 X 11.5#
PLANK	C6 X 10.5#
GUIDE RAILS	15# (Fy= 50 KSI)
PLATFORM SIZE (INCHES)	92" X 72"
PLATFORM THICKNESS	3.25 INCHES
FINISHED FLOOR THICKNESS	0.25 INCHES
GUIDE SHOES	SLIDING SWIVEL
BUFFERS (QTY)	SPRING (2)
RATING:	10655 LBS EACH
STROKE:	2.5 INCHES
<b>WEIGHTS</b>	
HOISTWAY DOOR	275
CAR DOOR	275
PISTON WEIGHT (MAXIMUM)	1200
CAR WEIGHT	4000
GROSS WEIGHT (MAXIMUM)	9000
<b>PRESSURE &amp; FLOW</b>	
STATIC PRESSURE (PSI)	235
WORKING PRESSURE : (PSI)	500
G.P.M.	124
<b>PUMP UNIT</b>	
MOTOR HP	50
MOTOR RPM	3400
FULL LOAD AMPS	150
STARTING AMPS	307
PUMP	TO SUIT
PUMP RPM	1800
VALVE	TO SUIT
VALVE VOLTAGE	120 VOLTS
FEED PIPE SIZE	SIZE TO SUIT. SCHED. 80
<b>HYDRAULIC JACKS</b>	
TYPE	ALL TYPES
PLUNGER O.D	6.5"
PLUNGER LENGTH	40'-0"
CYLINDER O.D.	8.63"
CYLINDER WALL THICKNESS	0.801"
CYLINDER LENGTH	40'-0"
TOP OVERTRAVEL	24"
BOTTOM OVERTRAVEL	11"
<b>MACHINE ROOM</b>	
POSITION	ATTACHED OR REMOTE
<b>HOISTWAY ENTRANCE</b>	
TYPE	SINGLE SLIDE OR 2 SPEED
SIZE	4'0" X 8'-0"
DOOR WEIGHT	275
<b>CAB</b>	
STYLE	METAL
HEIGHT	10'-0"
CAR DOOR OPERATION	SINGLE SLIDE OR 2 SPEED
<b>SIGNALS</b>	
HALL	PER CODE. SEE 7/VT4
CAR	PER CODE. SEE 8/VT4

NOTE: TABLE ABOVE SHOWS MAXIMUM VALUES ALLOWED. FOR SPECIFIC JOB VALUES SEE THE SD-1 SUBMITTAL DRAWING.

ALL SPECIFIED ITEMS SHOWN ARE RECOMMENDED AND "OR EQUAL" PRODUCTS MAY BE SUBSTITUTED.

NO.	DATE	REVISION

S.E. PC APPROVAL



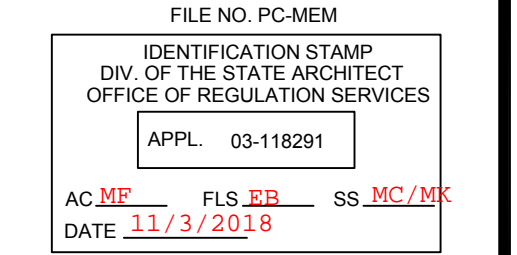
**MODULAR ELEVATOR MANUFACTURING, INC.**  
 P.O. BOX 3998  
 CHATSWORTH, CA. 91313  
 800-755-9359

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PROJECT NO: 16093  
 DATE: 10/19/2018

ENGINEERED BY: KAL  
 DRAWN BY: MTC



PRE-CHECK (PC) DOCUMENT CODE: 2018  
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SHEET NAME:  
 ELEVATOR DATA

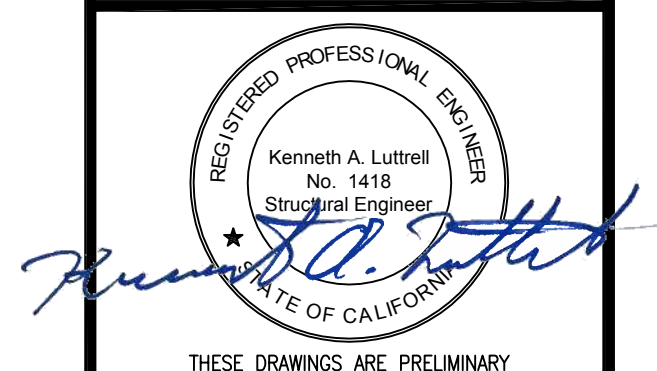
SHEET NO:  
**VT1**

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**BID SET 10/01/2021**

NO.	DATE	REVISION

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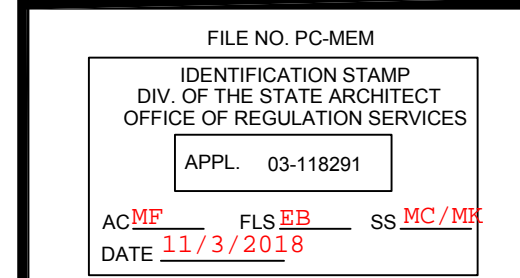
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DATE: 10/19/2018

ENGINEERED BY: KAL  
DRAWN BY: MTC

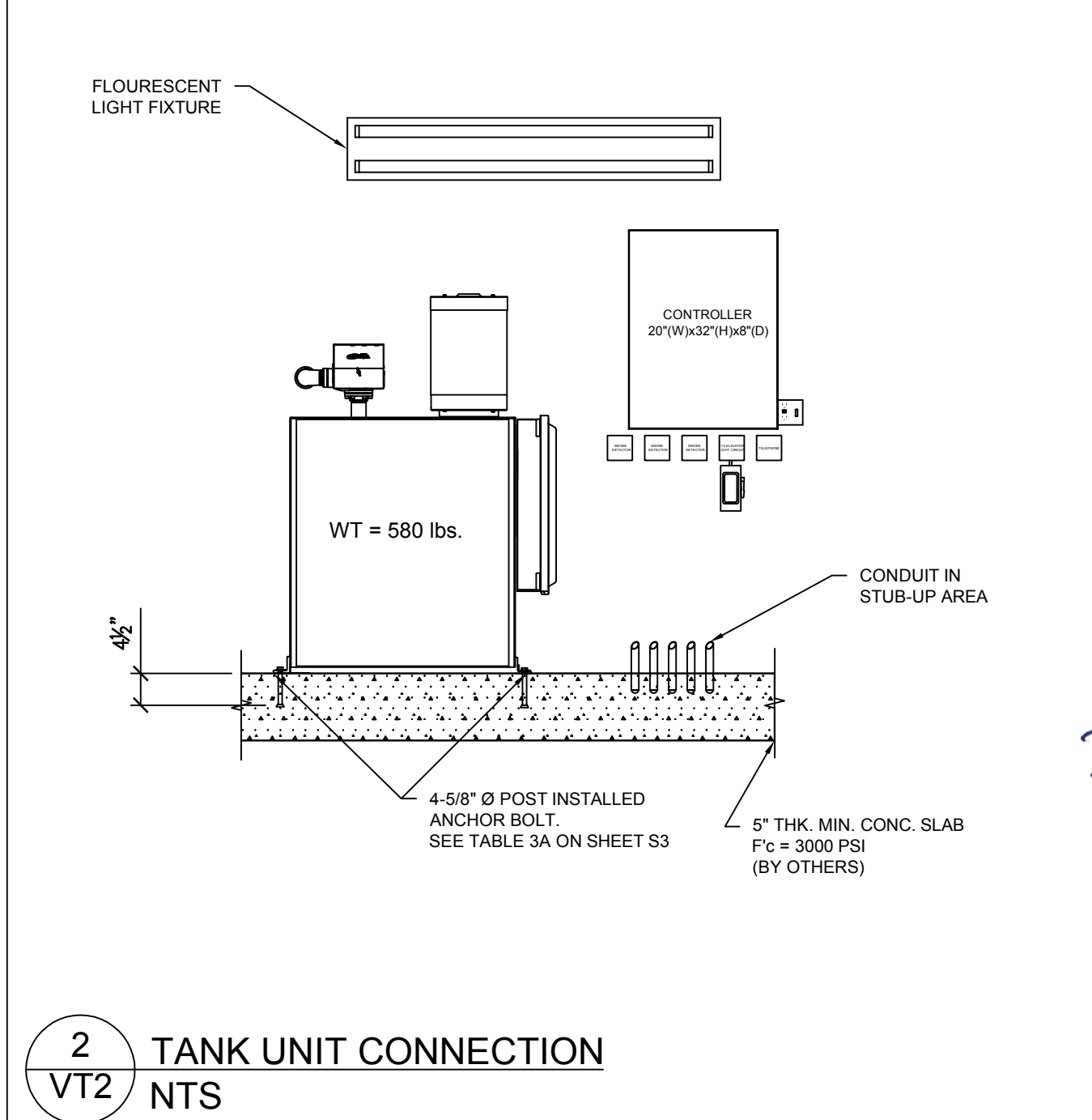


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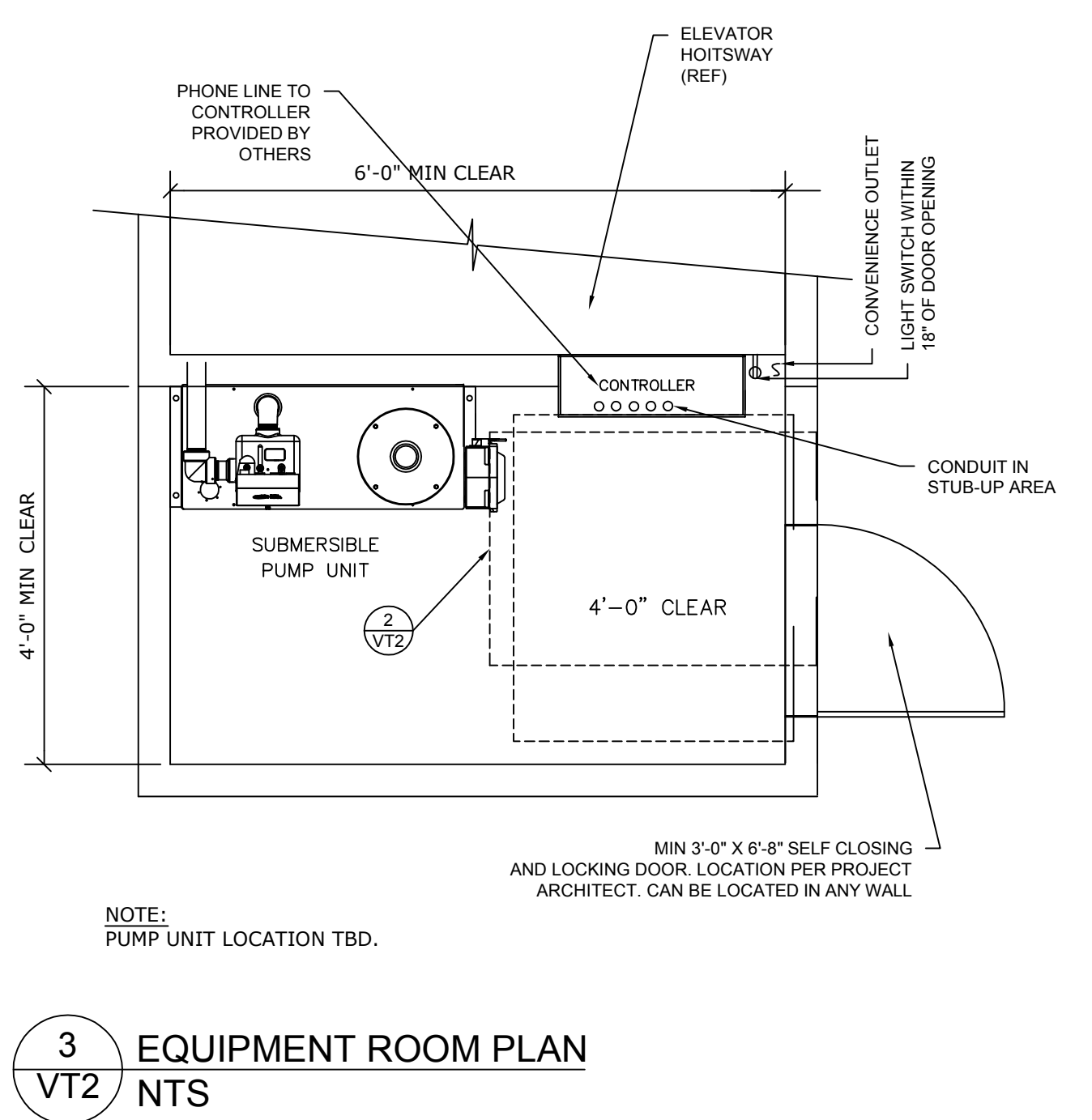
SHEET NAME:  
**ELEVATOR LAYOUT (PARTIAL MACHINE ROOM)**

SHEET NO:

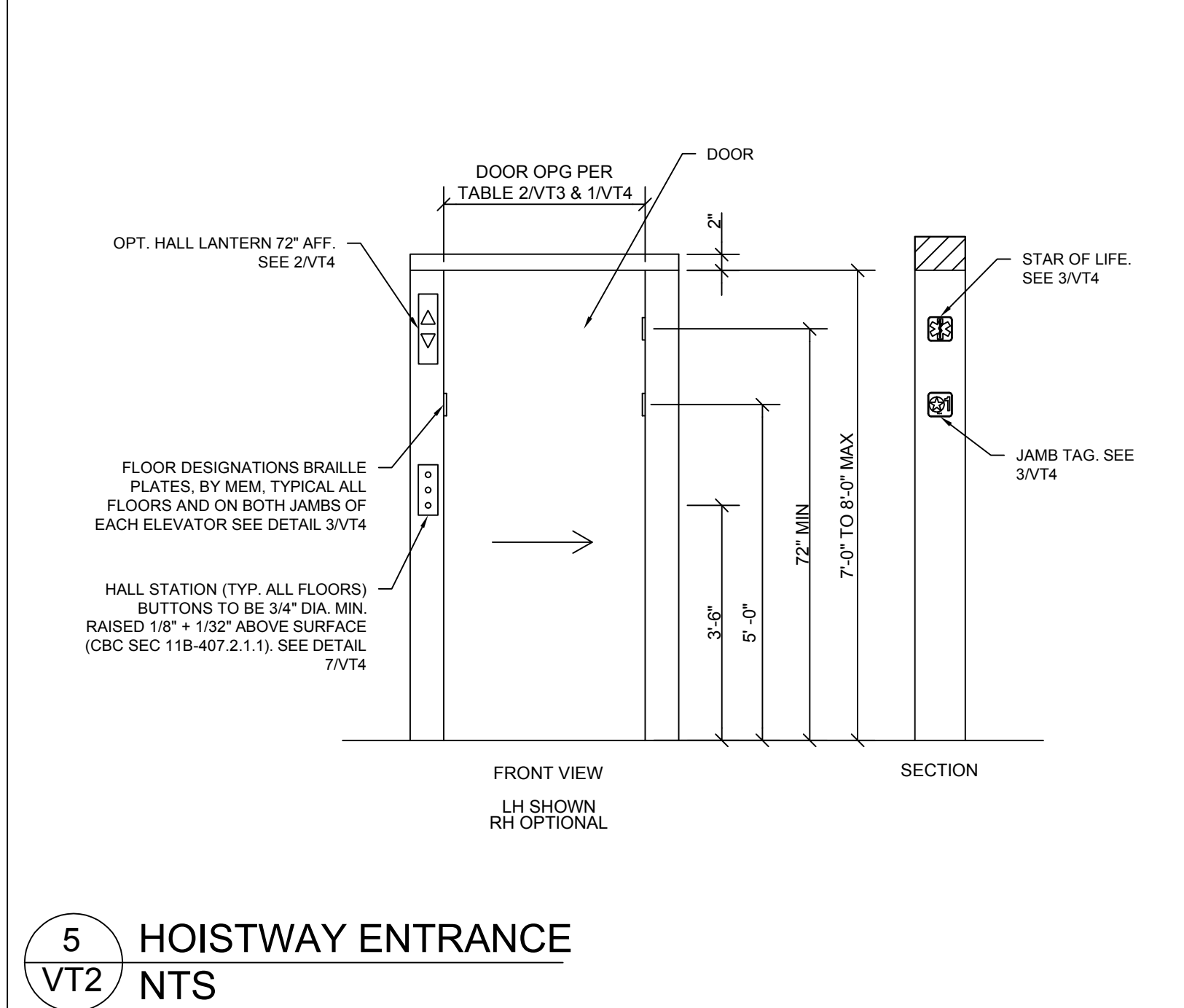
**VT2**



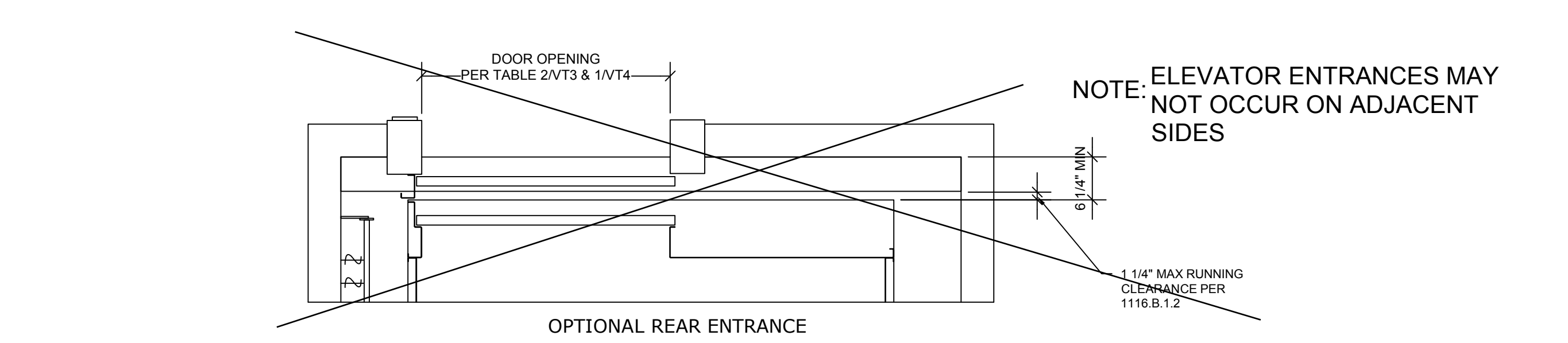
**2** TANK UNIT CONNECTION  
**VT2** NTS



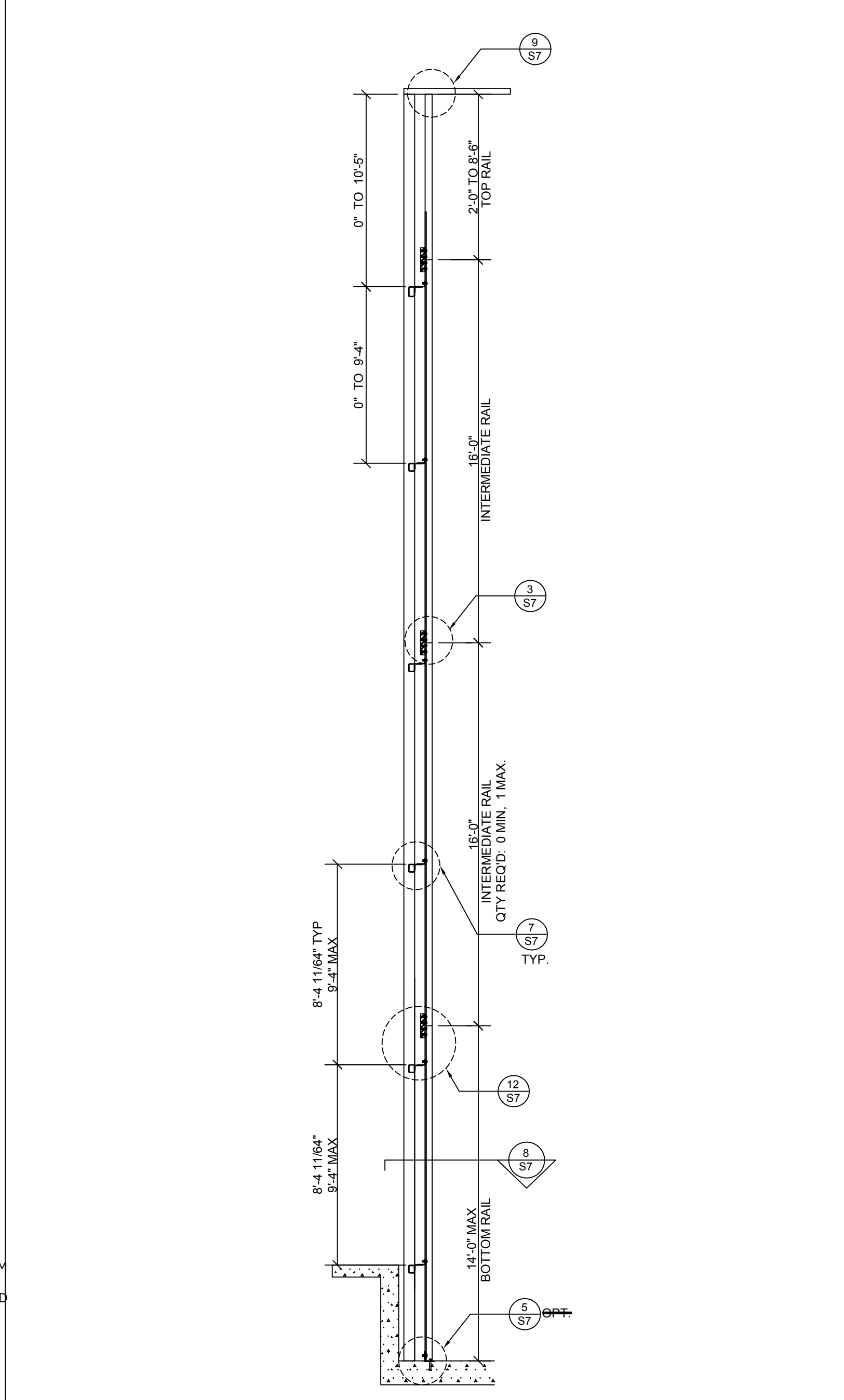
**3** EQUIPMENT ROOM PLAN  
**VT2** NTS



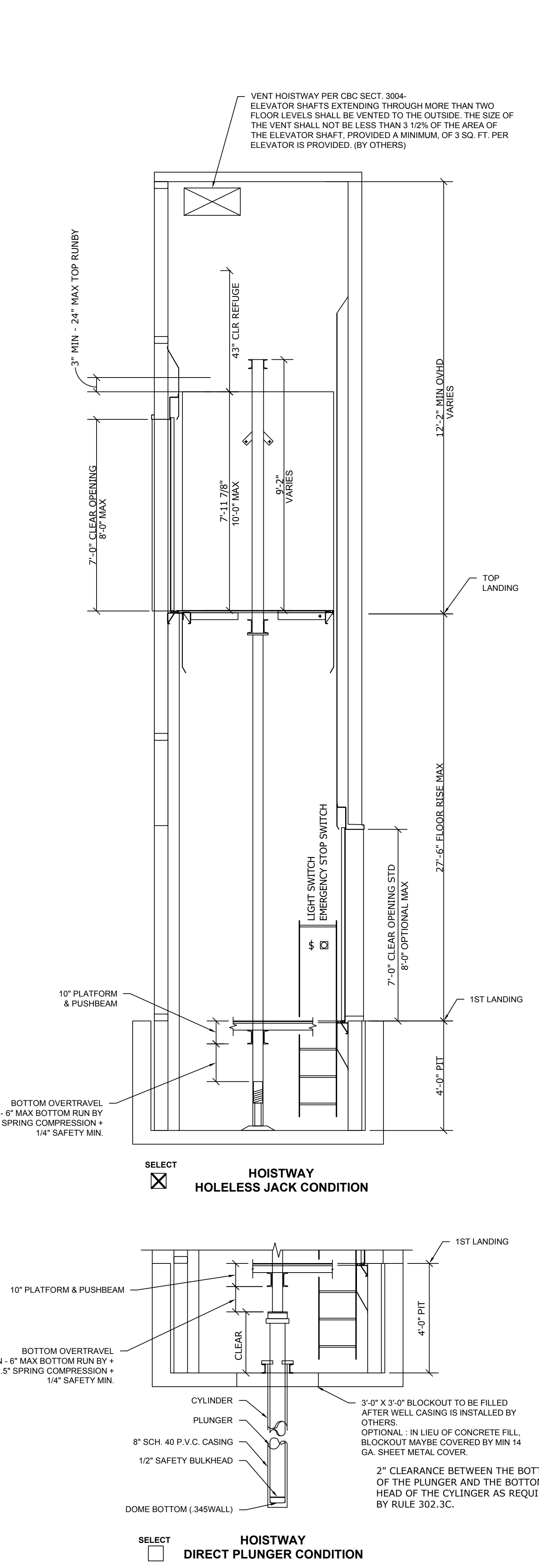
**5** HOISTWAY ENTRANCE  
**VT2** NTS



**1** PLAN VIEW  
**VT2** NTS



**4** RAIL - BRACKET LAYOUT  
**VT2** NTS



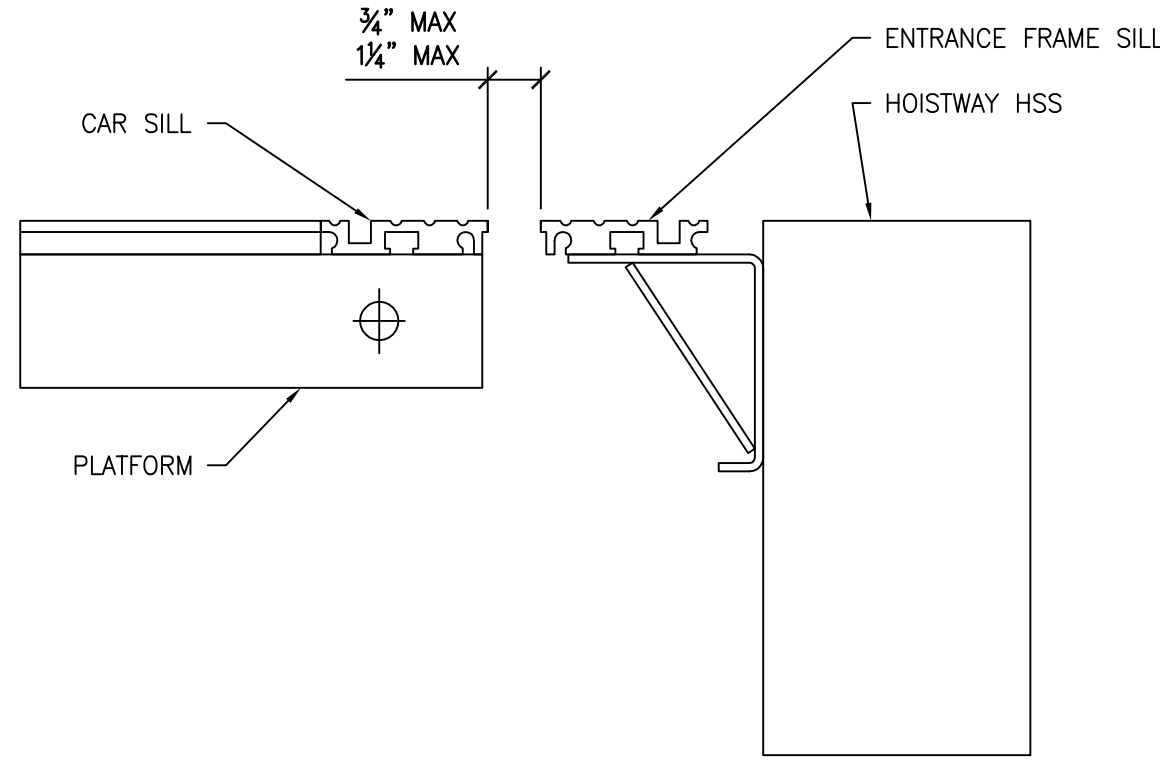
**6** HOISTWAY SECTION  
**VT2** NTS

**TABLE 1 - HOISTWAY SELECTOR**

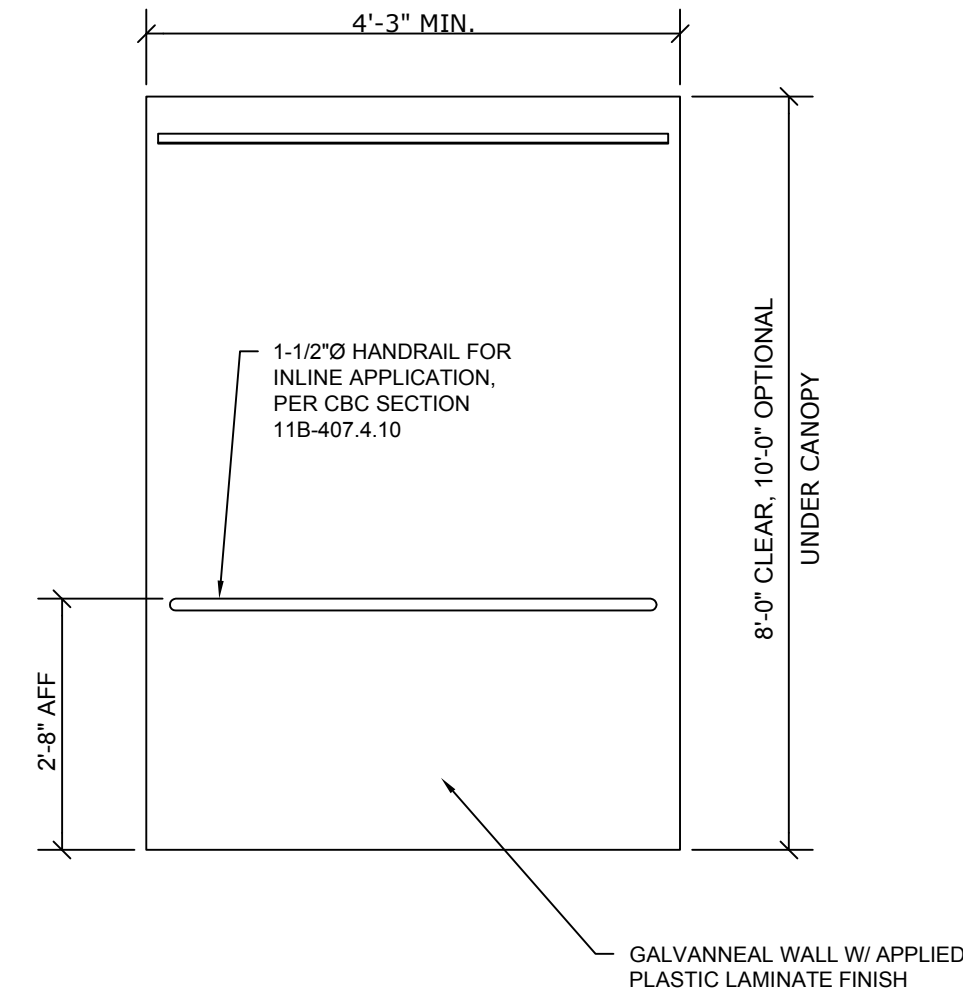
SELECT	MODEL	HOISTWAY	A	B
<input type="checkbox"/>	2000 R	HW-1	6'-10"	7'-6"
<input type="checkbox"/>	2500	HW-1	6'-10"	7'-6"
<input type="checkbox"/>	2500 R	HW-2	6'-10"	8'-6"
<input type="checkbox"/>	3000	HW-2	6'-10"	8'-6"
<input type="checkbox"/>	3000 GR	HW-3	6'-10"	9'-2 1/2"
<input checked="" type="checkbox"/>	3500 G	HW-2	6'-10"	8'-6"
<input type="checkbox"/>	3500	HW-3	6'-10"	9'-2 1/2"
<input type="checkbox"/>	4000	HW-3	6'-10"	9'-2 1/2"
<input type="checkbox"/>	4000 MAX	CUSTOM SIZE TO SUIT		
G-GURNEY COMPLIANT PER 3002.4A				
R-REVERSE OPENING				

L:\Users\k16093 - MEM - 2016 - CBC - PC-MEM-01\Drawings\VT2.dwg Time: 02/23/2018 - 03:10:00pm Light: c:\program files\autodesk\lisp\acadiso.lsp Dimstyle: 1:1 Scale: 0.5

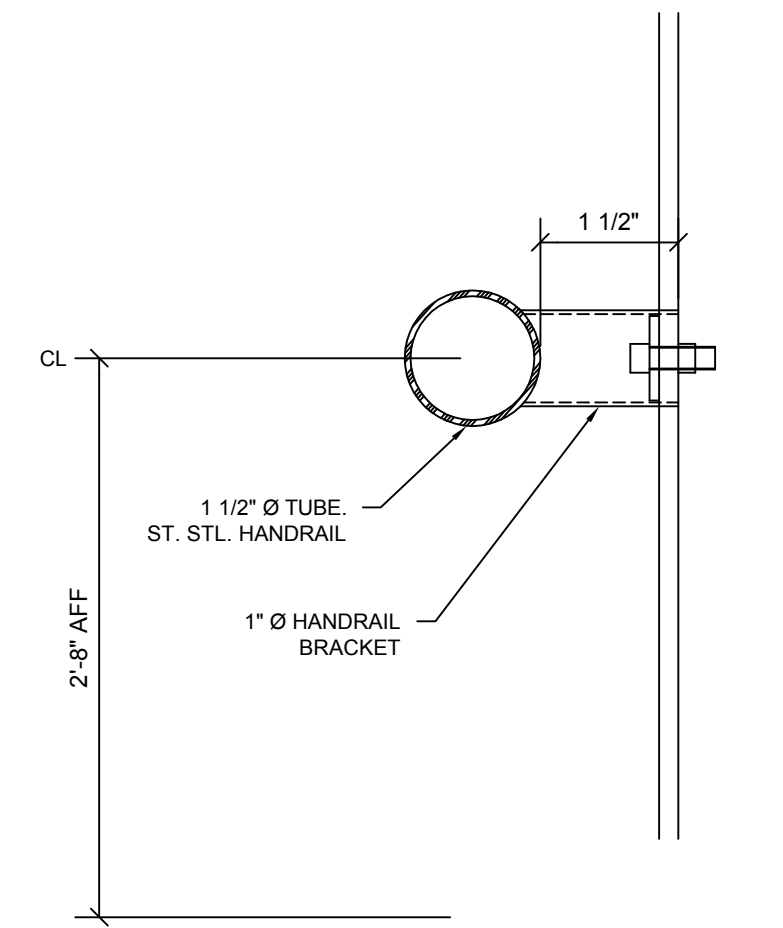
**BID SET 10/01/2021**



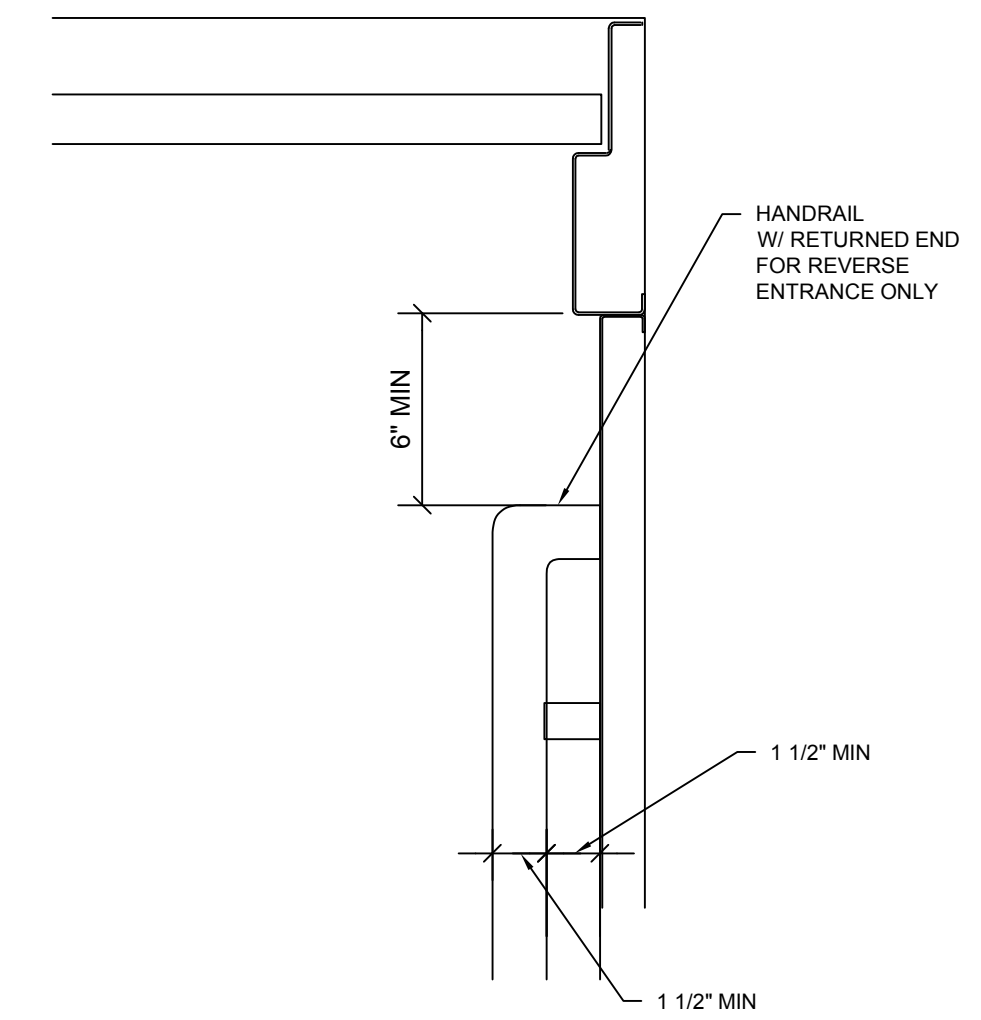
7 CAR & HALL SILLS DETAIL  
VT3 NTS



4 REAR WALL  
VT3 NTS

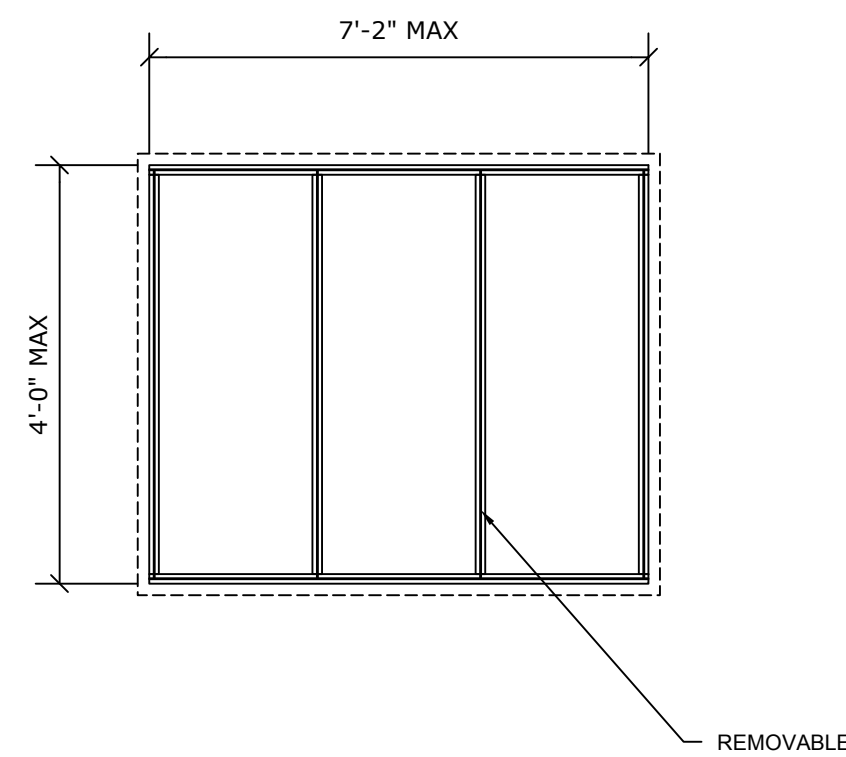


1B SECTION TRU HANDRAIL  
VT3 NTS

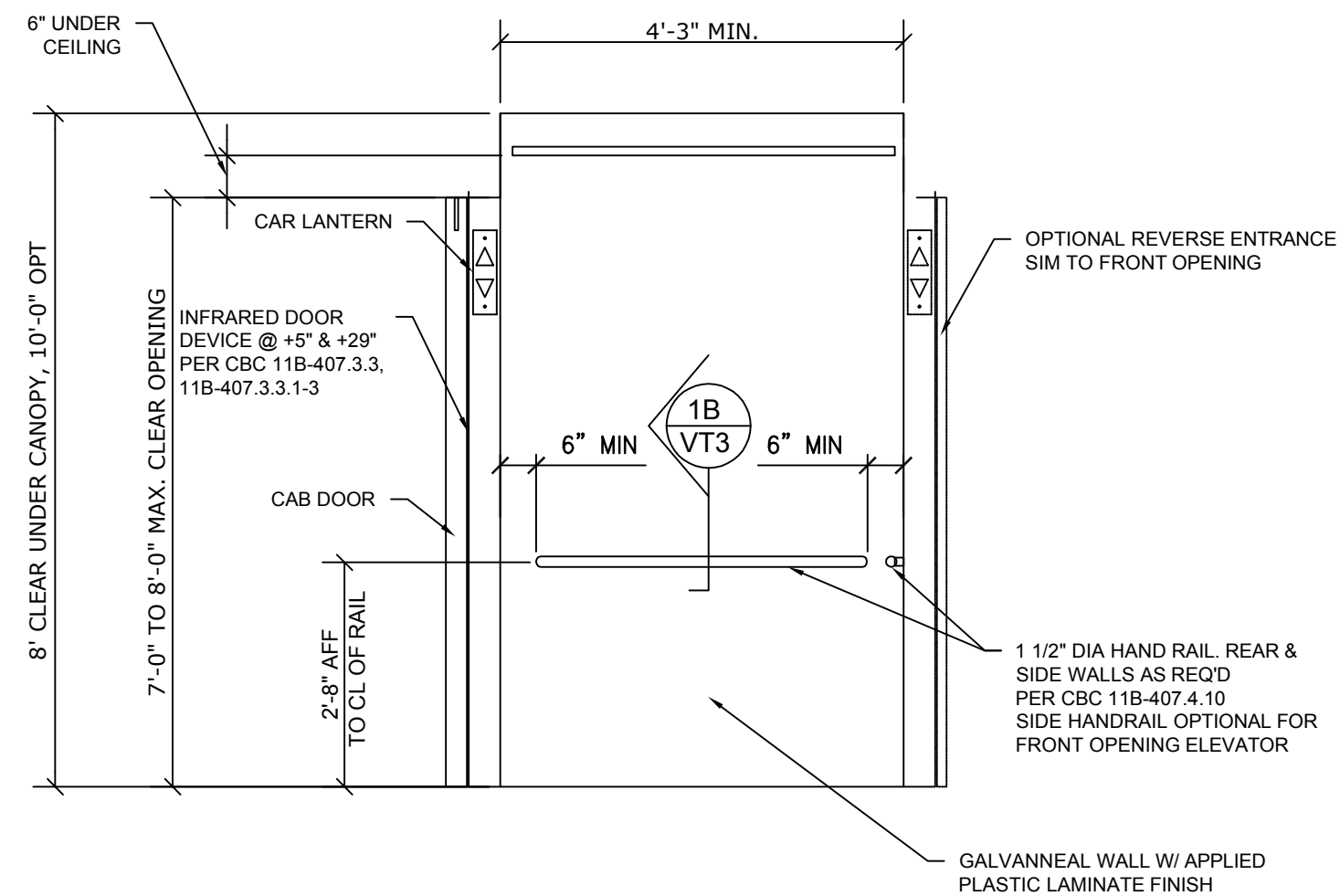


1A PLAN: HANDRAIL AT RETURNED END  
VT3 NTS

NOTE: DIMENSIONS TO SUIT OVERALL CAB ENCLOSURE DIMENSIONS



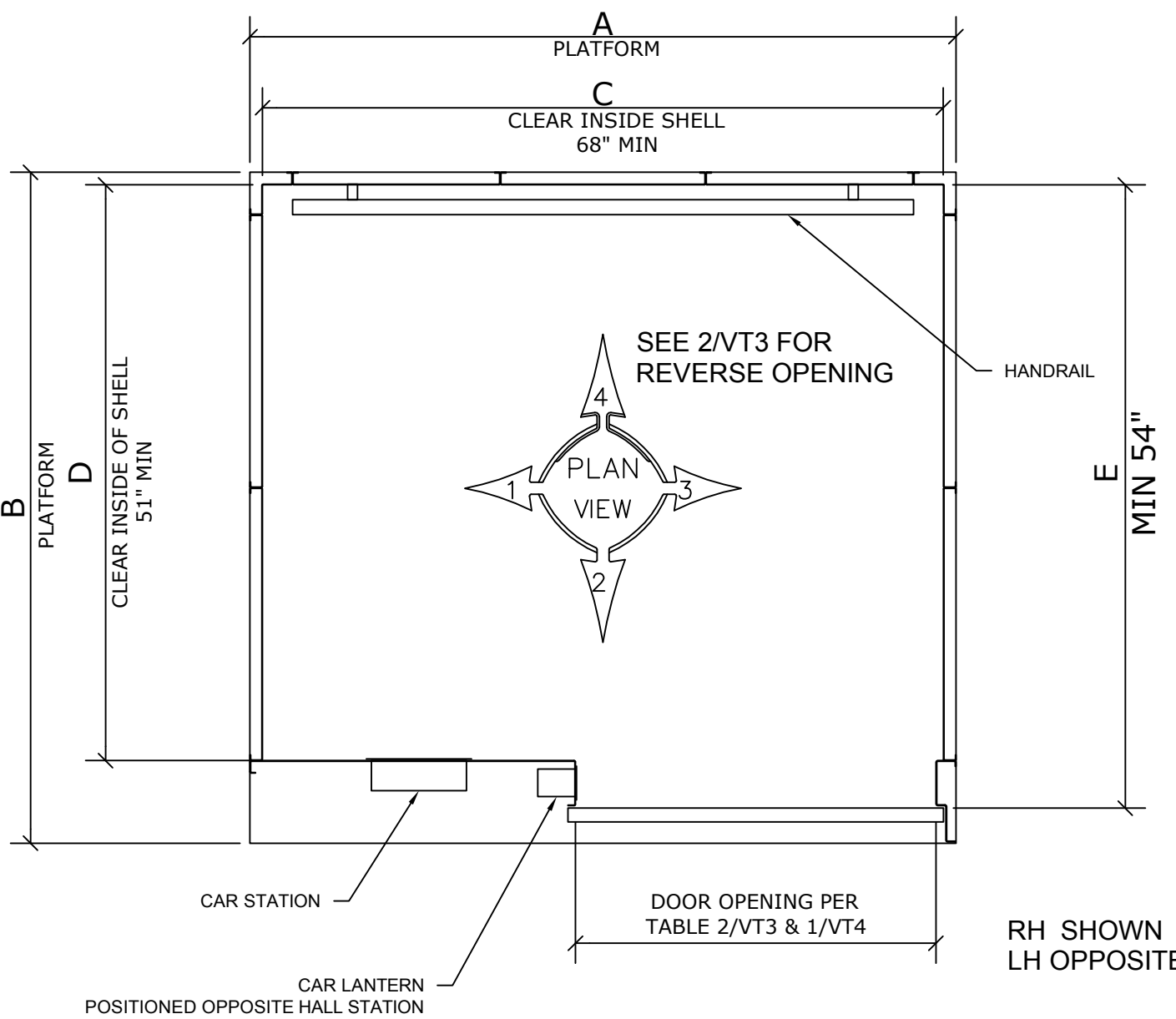
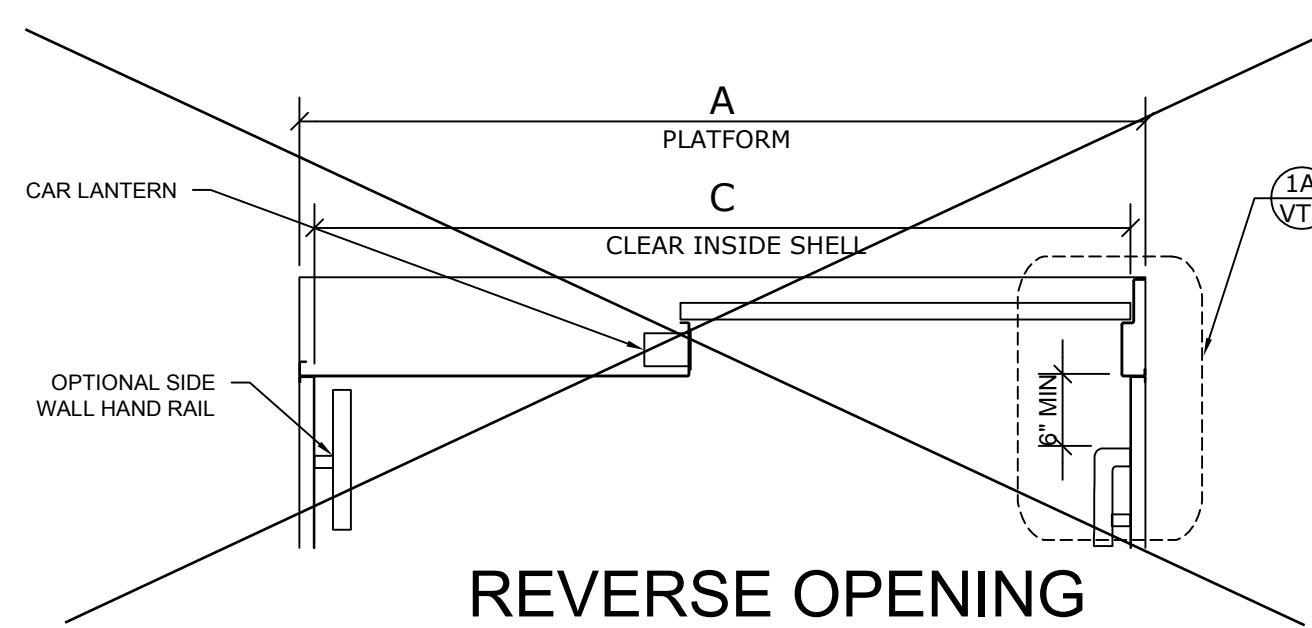
6 T-BAR CEILING FRAME FOR ELEVATOR CAR  
VT3 NTS



3 SIDE WALL  
VT3 NTS

**TABLE 2 - ELEVATOR DIMENSIONS**

SELECT ONE	HW SIZE	ELEVATORS	PLATFORM		INSIDE CLEAR MIN.			MAX AREA	SINGLE SPEED SIDE SLIDE OPN AS PER CBC 3002.4 11B-407.3 MIN DIM		
			A	B	C	D	E				
<input type="checkbox"/>	HW1	2000 R	5'-10 1/2"	5'-9"	5'-8"	4'-3 3/4"	4'-7 3/4"	24.9 sq ft	36"		
<input type="checkbox"/>	HW1	2500	5'-10 1/2"	5'-8 3/4"	5'-8"	4'-10 1/4"	5'-2 3/4"	28.2 sq ft	36"		
<input type="checkbox"/>	HW2	2500 R	6'-10 1/2"	5'-9"	6'-8"	4'-3 3/4"	4'-7 3/4"	29.3 sq ft	36"		
<input type="checkbox"/>	HW2	3000	6'-10 1/2"	5'-8 3/4"	6'-8"	4'-10 1/4"	5'-2 3/4"	33.2 sq ft	42"		
<input type="checkbox"/>	HW3	3000 GR	7'-5 1/2"	5'-9"	5'-9"	4'-3 3/4"	4'-7 3/4"	31.9 sq ft	42"		
<input checked="" type="checkbox"/>	HW2	3500 G	6'-10 1/2"	6'-0"	6'-8"	5'-3"	5'-7 1/2"	35.0 sq ft	42"		
<input type="checkbox"/>	HW3	3500 G	7'-5 1/2"	6'-0"	6'-0"	7'-3"	5'-3"	38.1 sq ft	42"		
<input type="checkbox"/>	HW3	4000	8'-0"	6'-0"	7'-6"	5'-3"	5'-7 1/2"	44.3 sq ft	42"		
<input type="checkbox"/>	HW3	4000 MAX	CUSTOM SIZE TO SUIT							44.3 sq ft	

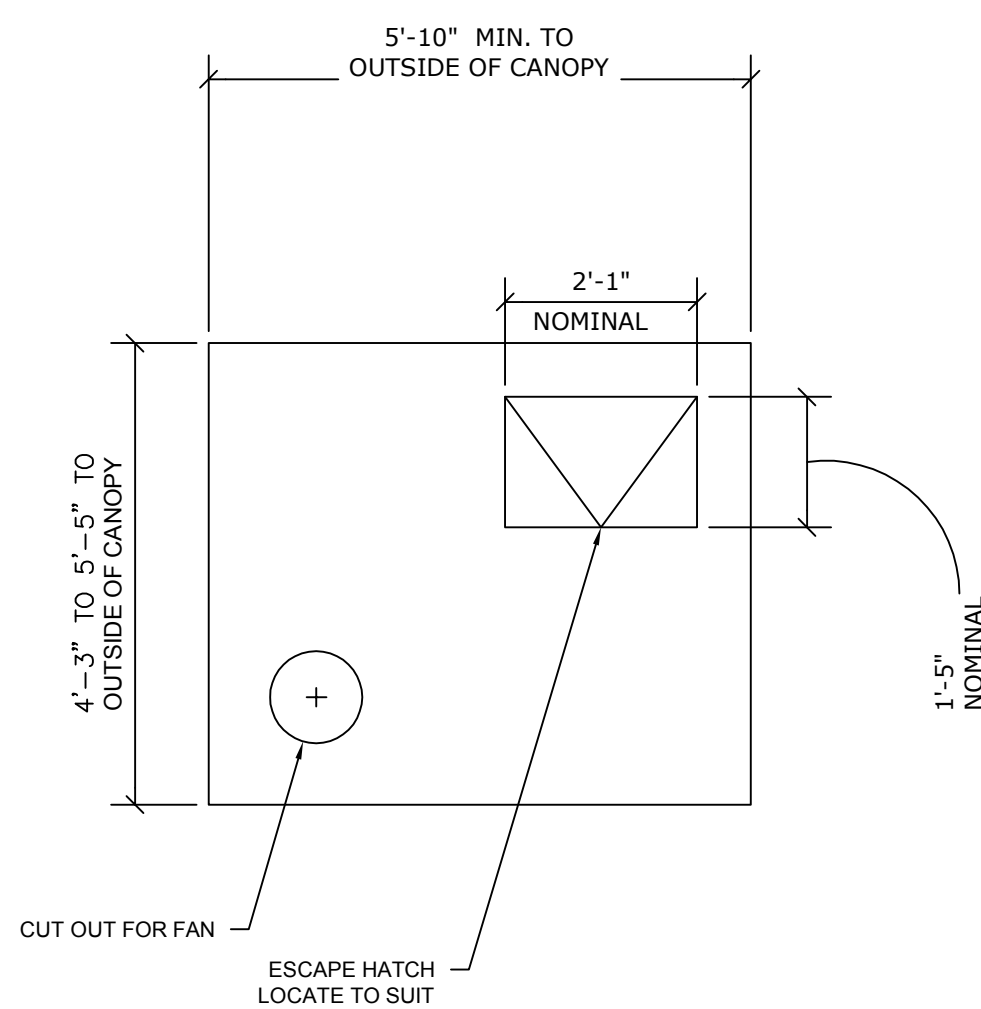


1 PLAN  
VT3 NTS

**MANUFACTURING NOTES**

1. STRIKE JAM AND HEADER: STAINLESS STEEL
2. CAR DOORS: 16 GA GALVANNEAL, PRIMED FINISH OR STAINLESS STEEL
3. ENTRANCE COLUMN: 16 GA STAINLESS STEEL.
4. SIDE & REAR WALL PANELS: 16 GA GALVANNEAL WITH AN APPLIED PLASTIC LAMINATE ON THE INTERIOR, OR 16 GA STAINLESS STEEL.
5. CANOPY: 16 GA GALVANNEAL, REFLECTIVE WHITE FINISH ONLY REQUIRED ON THE INSIDE OF CAB, NO PRIME ON THE OUTSIDE
6. CEILING: T-BAR WITH CEILING PANELS
7. HANDRAIL: 1 1/2" ROUND HANDRAIL
8. CAR SILL: ALUMINUM WITH A NATURAL FINISH PER 7/VT3
9. VENTILATION: FAN AND VENT SLOTS IN THE BASE OF THE CAB.
10. CAR DOORS ARE PRE DRILLED FOR DOOR EQUIPMENT
11. LIGHTING: FLOURESCENT STRIP LIGHTS
12. ALL MATERIAL FOR CAR ENCLOSURES SHALL MEET THE REQUIREMENTS OF ASME A17.1, SECT. 204.2.

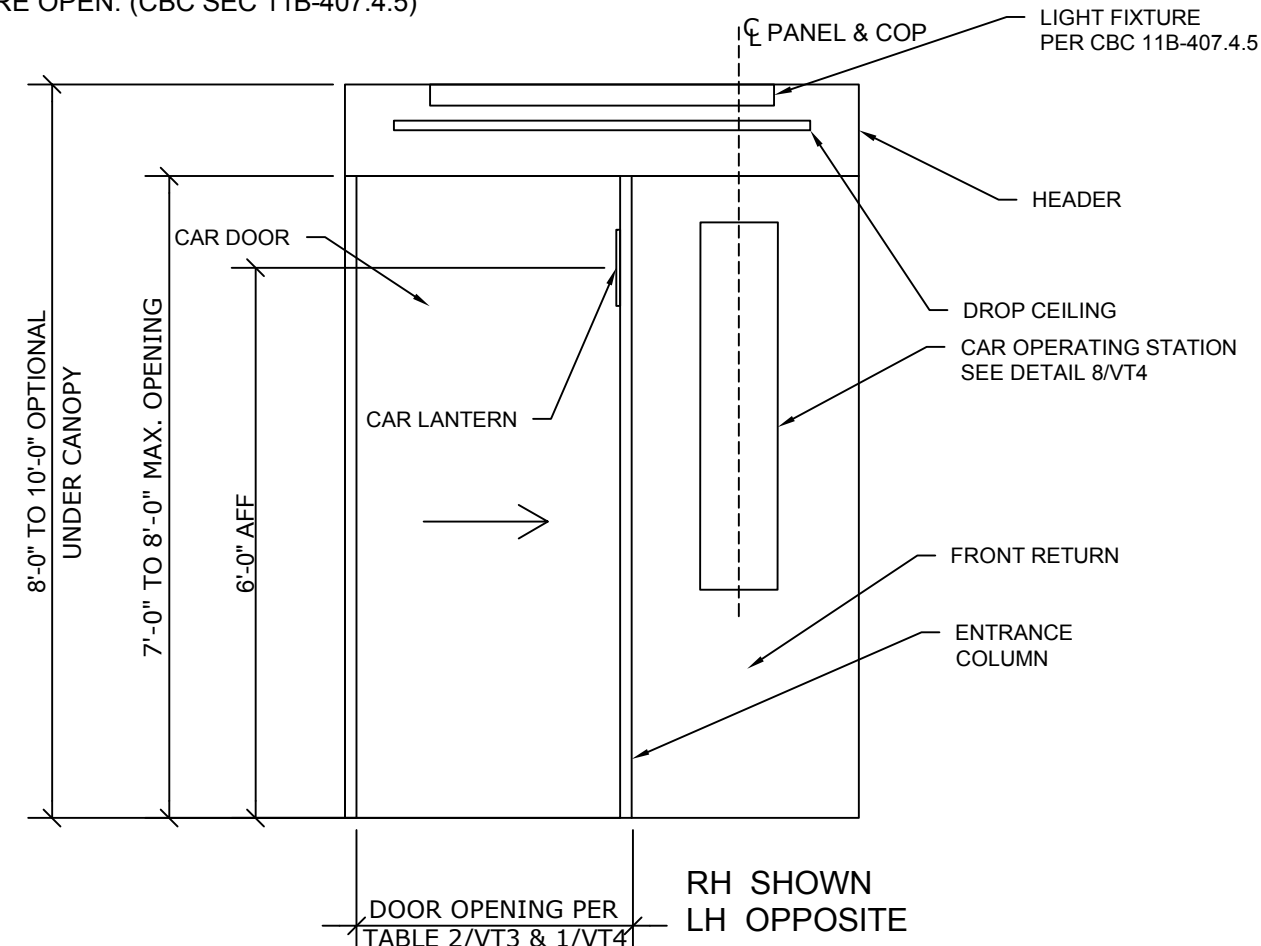
NOTE: DIMENSIONS TO SUIT OVERALL CAB ENCLOSURE DIMENSIONS



5 ELEVATOR CANOPY  
VT3 NTS

**NOTES:**

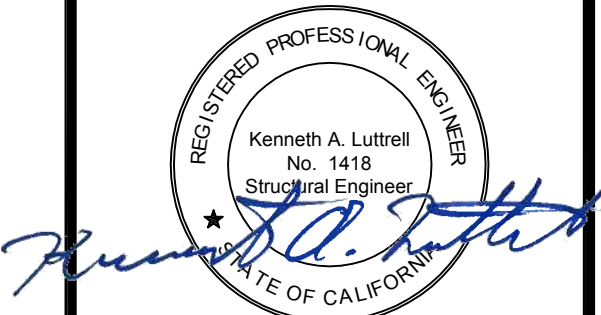
1. REAR RETURN FOR REVERSE ENTRANCE SIMILAR
2. LIGHT FIXTURE TO PROVIDE A MINIMUM OF 5 FOOT CANDLES AT CONTROL PANEL LANDING & THRESHOLD WHEN CAB LANDING DOORS ARE OPEN. (CBC SEC 11B-407.4.5)



2 FRONT RETURN WALL  
VT3 NTS

NO.	DATE	REVISION

S.E. PC APPROVAL



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PROJECT NO: 16093  
DATE: 10/19/2018  
ENGINEERED BY: KAL  
DRAWN BY: MTC

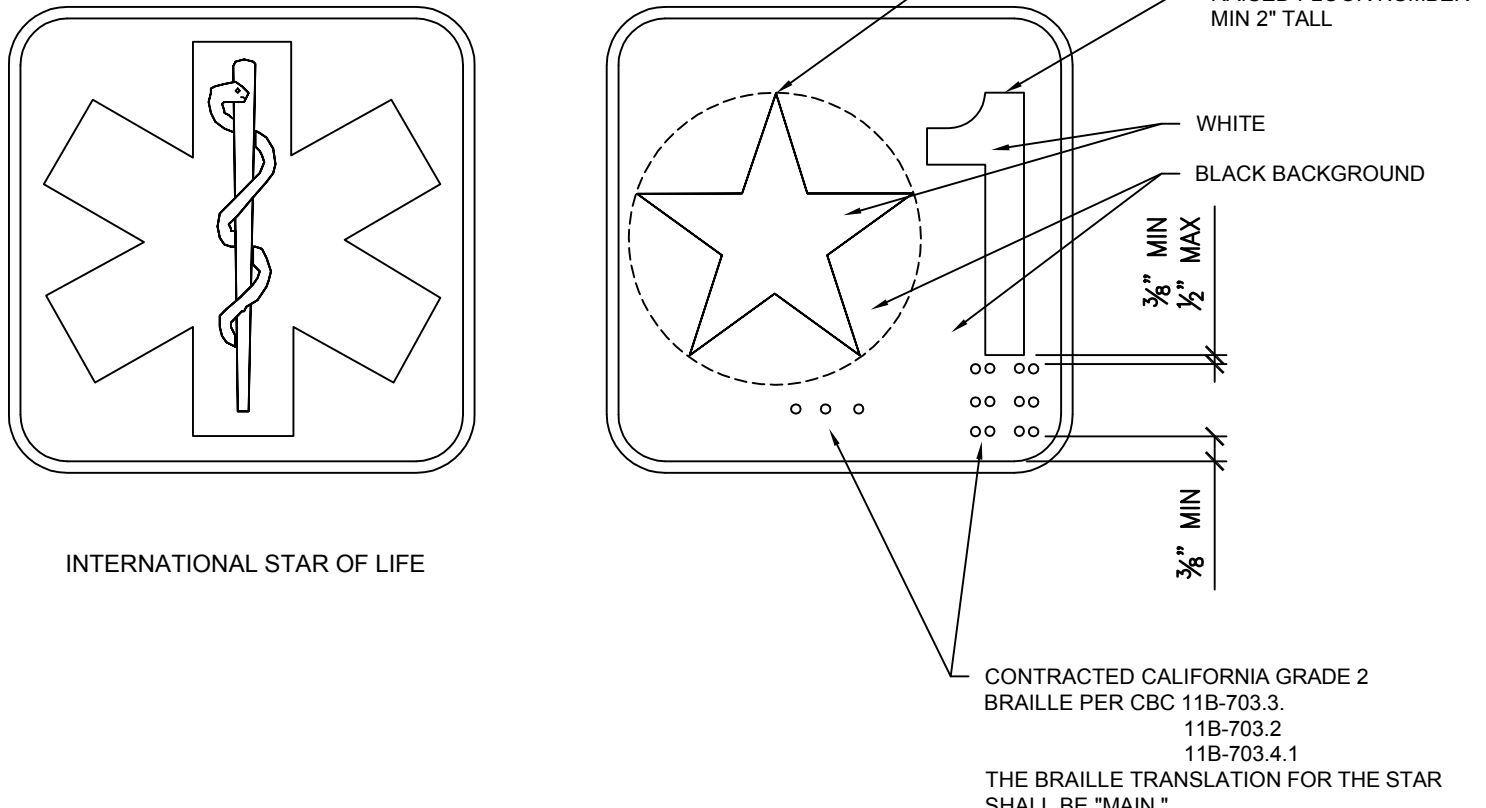
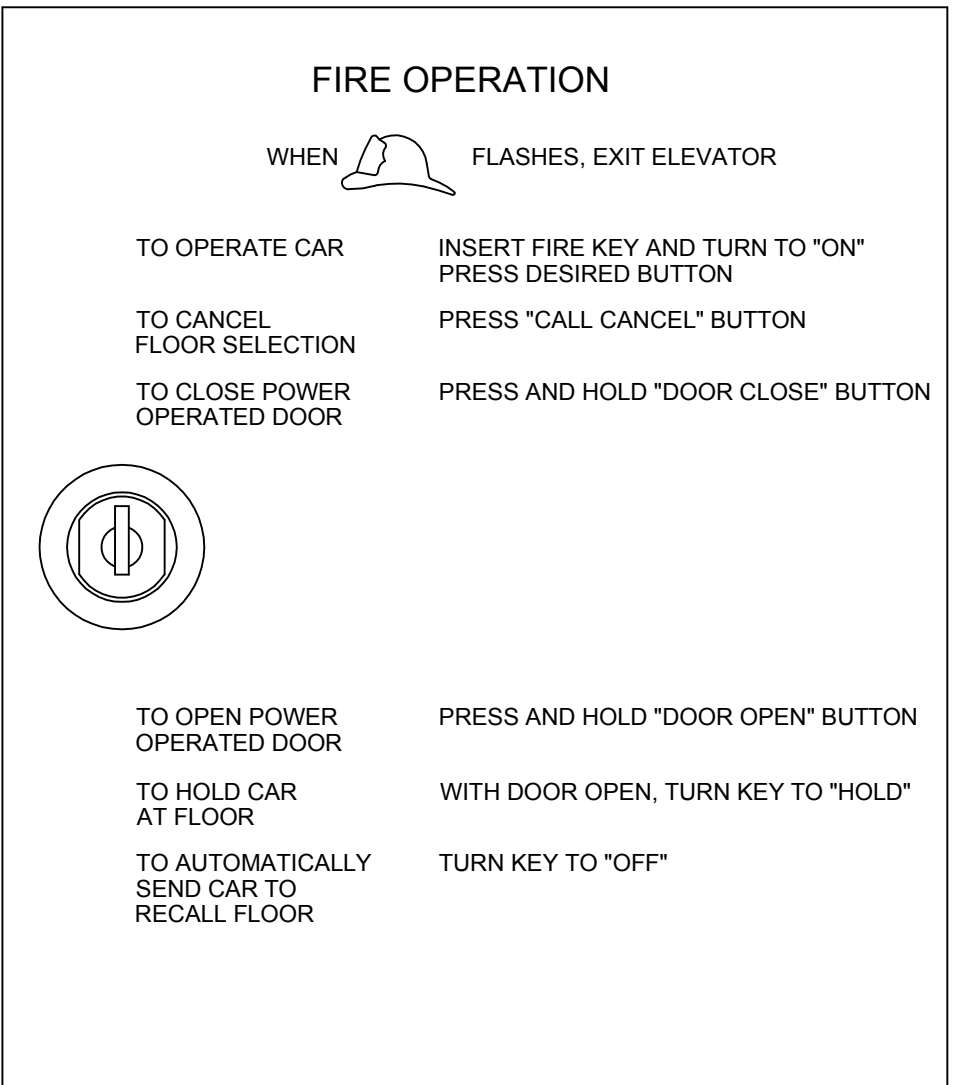
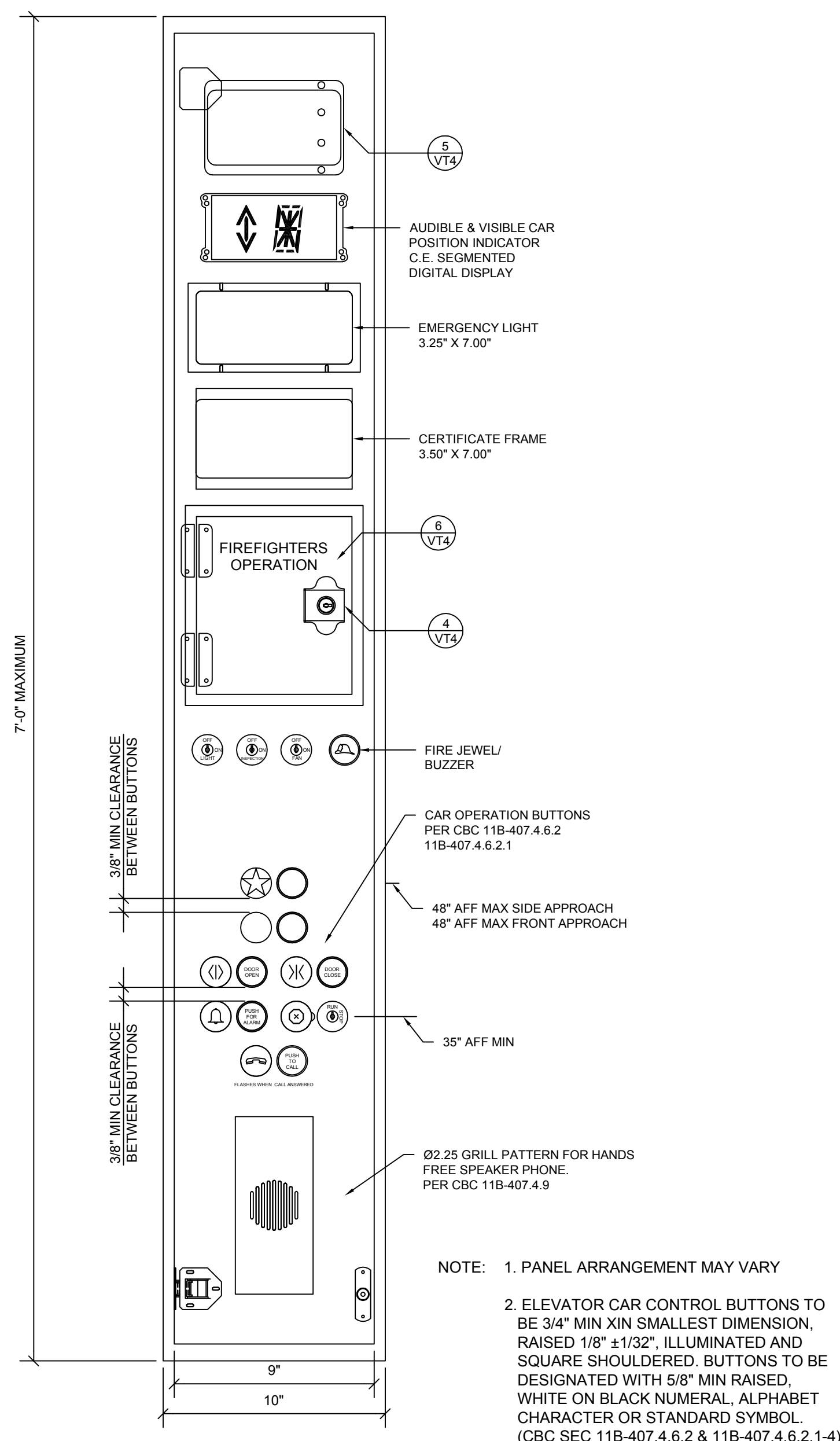
FILE NO. PC-MEM  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL. 03-118291  
AC MF FL EB SS MC/MK  
DATE 11/3/2018

PRE-CHECK (PC) DOCUMENT  
CODE: 2016  
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SHEET NAME:  
ELEVATOR CAB

SHEET NO:  
VT3





**PASSENGER ELEVATOR REQUIREMENTS**  
Chapter 11B, 2016 California Building Code

**VT3** General - 11B-407.1  
Elevators shall be passenger elevator as classified as ASME A17.1, and shall comply with 11B-407 and with ASME A17.1.  
Elevator operation shall be automatic.  
When the only elevators provided for use by public and employees are combinations passenger and freight elevators, they shall comply with 11B-407 and ASME A17.1.

**VT4** Elevator landing requirements - 11B-407.2  
Call controls - Where elevator call buttons or keypads are provided, they shall comply with 11B-407.2.1 and 11B-309.4.  
Height - Call buttons or keypads shall be located within one of the reach ranges specified in 11B-308, measured to the centerline of the highest operable part.  
Size and shape - call buttons shall have square shoulders, be 3/4 inch minimum in the smallest dimension and shall be raised 1/8 inch plus or minus 1/32 inch above surrounding surface. The buttons shall be activated by a mechanical motion that is detectable.  
Clear floor or ground space - A clear floor or ground space complying with 11B-305 shall be provided at call controls.  
Location - The call button that designates the up direction shall be located above the call button that designates the down direction.  
Signals - Call buttons shall have visible signals that will activate when each call is registered and will extinguish when each call is answered. Call buttons shall be internally illuminated with a white light over the entire surface of the button.

**VT4** Hall signals - Hall signals, including in-car signals, shall comply with 11B-407.4.2.2.  
Visible and audible signals - A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's directions of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.  
Visible signals - Visible signals shall be centered at 72 inches minimum above the finish floor or ground. The visible signal elements shall be a minimum 2 1/2 inches wide. Signals shall be visible from the floor area adjacent to the hall call button.  
Audible signals - Audible signals shall sound once for the up direction and twice for the down direction or shall have verbal announcements that indicate the direction of elevator car travel. Audible signals shall have a frequency of 1500 Hz maximum. Verbal announcements shall have a frequency of 300 Hz minimum and 3000 Hz maximum. The audible signal and verbal annunciator shall be 10dB minimum above ambient, but shall not exceed 80 dB, measured at the hall call buttons.

**3/VT4** Hoistway Signs - Signs at elevator hoistway shall comply with 11B-407.2.3.  
Floor designation - Floor designations shall be provided on both jamps of elevator hoistway entrances. Floor characters shall be provided in both raised characters and braille. Raised characters shall be 2 inches high. A raised star, placed to the left of the floor designation, shall be provided on both jamps at the main entry level. The outside diameter of the star shall be 2 inches and all points shall be of equal length. Raised characters, including the star shall be white on a black background. Braille complying with 11B-703.3 shall be placed below the corresponding raised characters and the star. The Braille translation for the star shall be "MAIN". Applied plates are acceptable if they are permanently fixed to the jamb.  
Car designation - Destination-Oriented elevators shall provide tactile car identification complying with 11B-703.2 and 11B-703.4.1 on both jamps of the hoistway immediately below the floor designation. Car designations shall be provided in both raised characters and Braille. Raised characters shall be 2 inches high. Raised characters shall be white on a black background. Applied plates are acceptable if they are permanently fixed to the jamb.

NO.	DATE	REVISION

**S.E. PC APPROVAL**

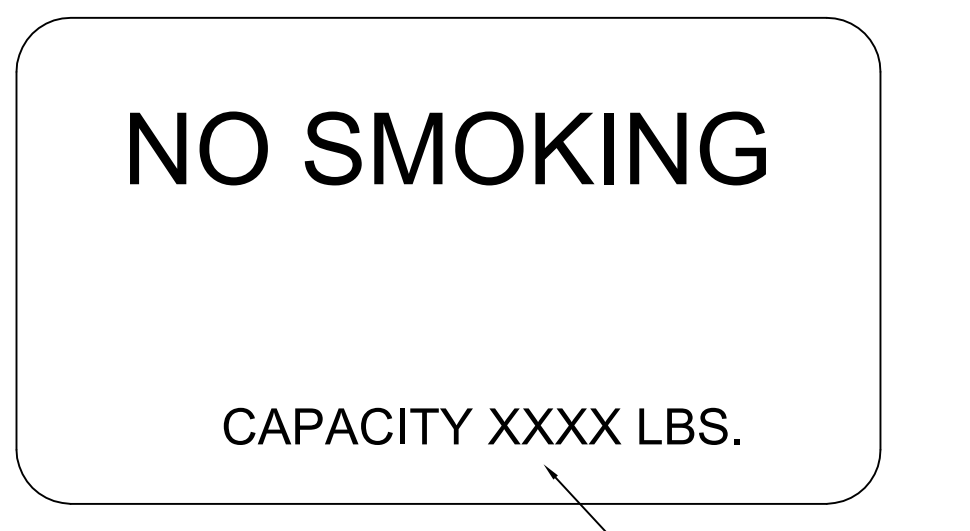
REGISTERED PROFESSIONAL ENGINEER  
Kenneth A. Luttrell  
No. 1418  
Structural Engineer  
STATE OF CALIFORNIA

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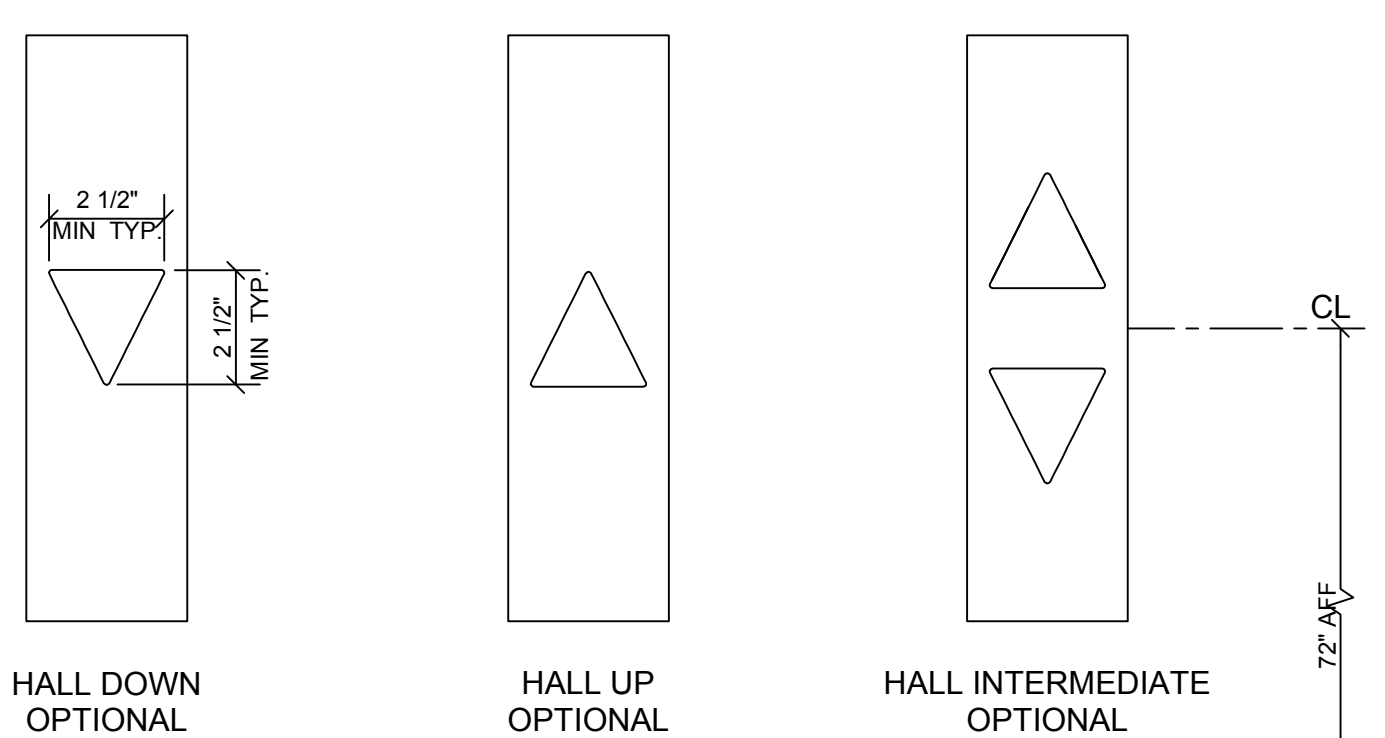
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**6 ANSI PHASE II INSERT**  
VT4 NTS



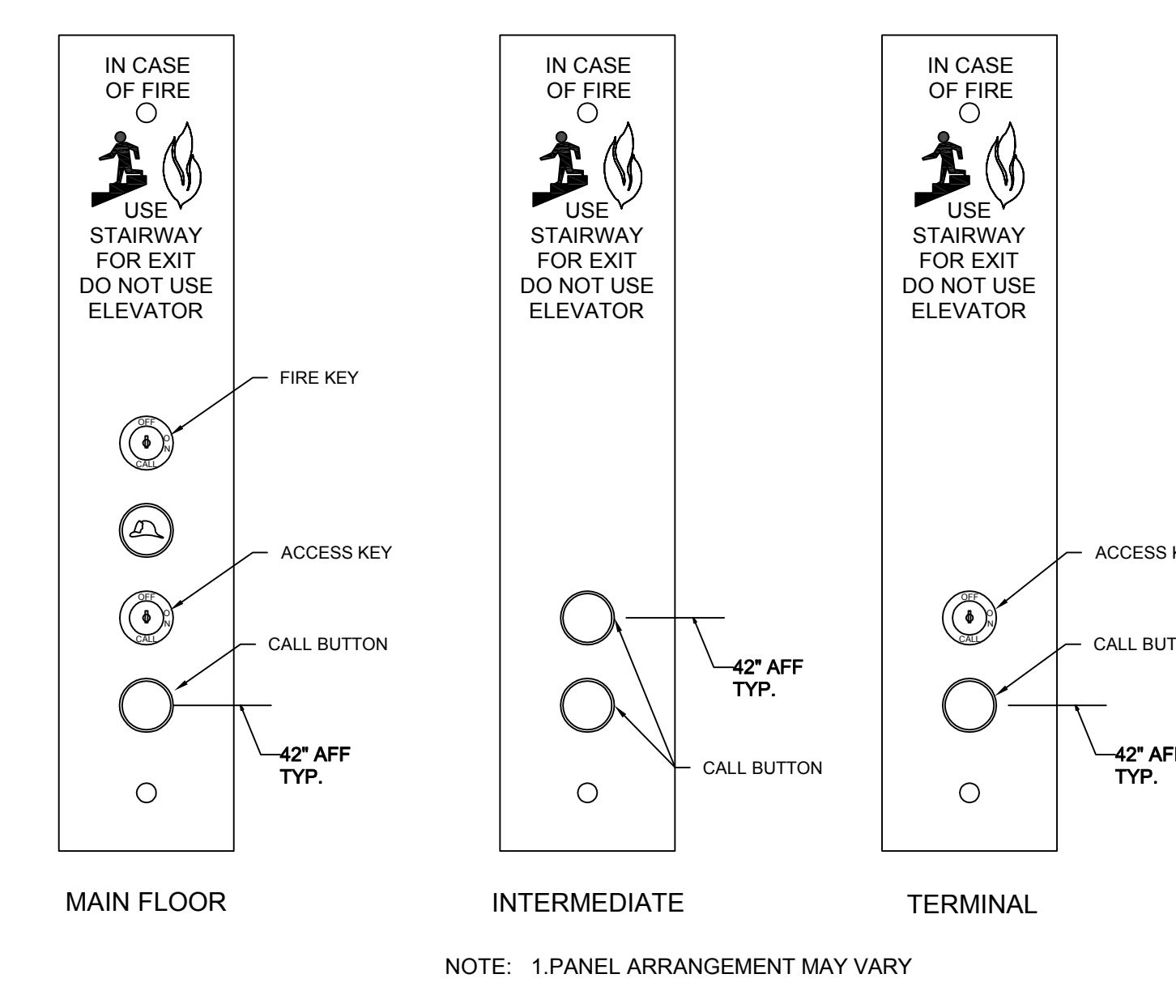
- 2000
- 2500
- 3000
- 3500
- 4000

**3 JAMB TAGS**  
VT4 NTS



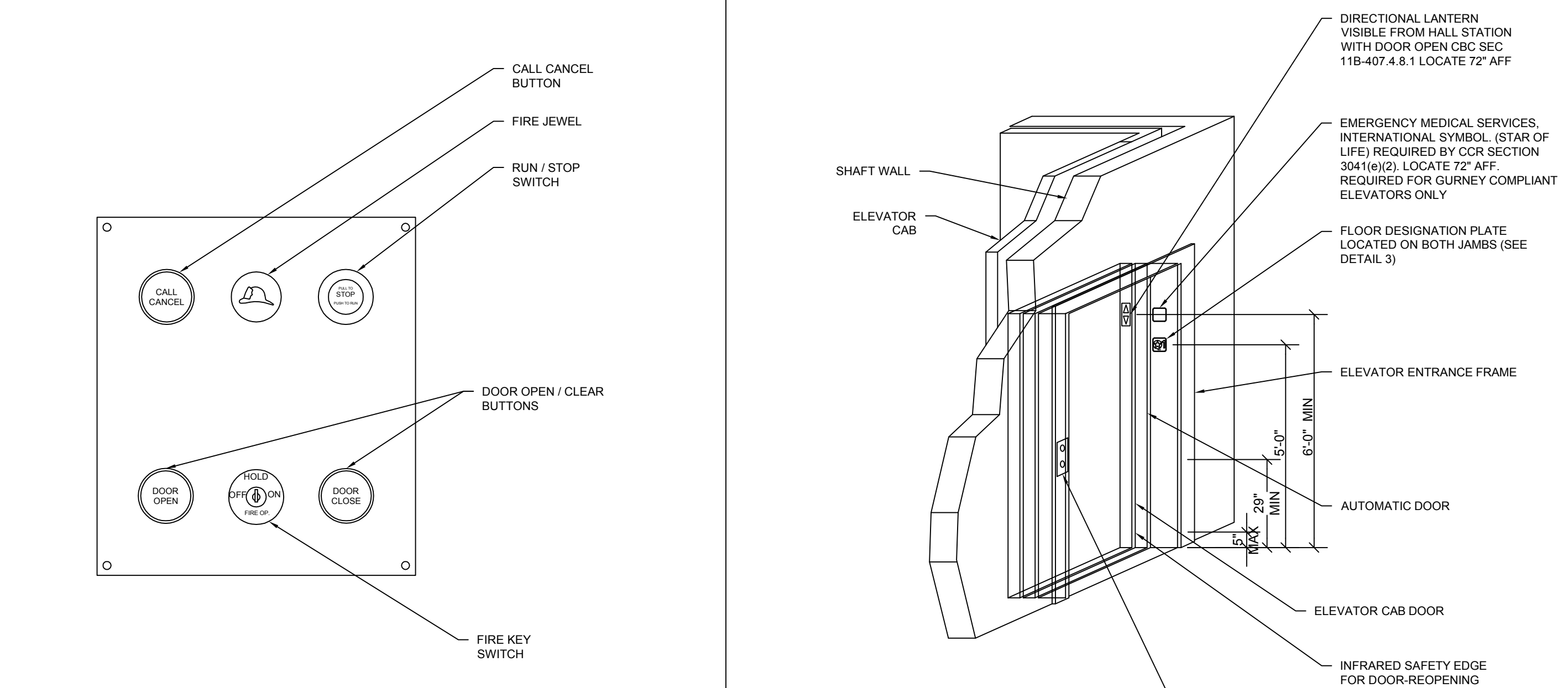
**NOTES:**  
1. DIRECTIONAL IN CAR LANTERN LOCATED IN OR ON THE DOOR JAMB VISIBLE FROM HALL STATION WITH DOOR OPEN. 2 1/2" MIN IN THE SMALLEST DIRECTION WITH AUDIBLE SIGNAL PER CBC 11B-407.2.2.1-3  
2. EITHER HALL LANTERNS OR CAR LANTERN SHALL BE PROVIDED.

**8 CAR OPERATING STATION**  
VT4 NTS



**NOTE:** 1. PANEL ARRANGEMENT MAY VARY  
2. ELEVATOR CAR CONTROL BUTTONS TO BE 3/4" MIN IN SMALLEST DIMENSION, RAISED 1/8" ± 1/32" ILLUMINATED AND SQUARE SHOULDERED. BUTTONS TO BE DESIGNATED WITH 5/8" MIN RAISED. (CBC SEC 11B-407.4.6.2 & 11B-407.4.6.2.1-4)

**5 SIGNAGE**  
VT4 NTS



**1 ACCESS COMPLIANCE**  
VT4 NTS

**3/VT3** Elevator door requirements - 11B-407.3  
Type - Elevator doors shall be the horizontal sliding type. Car gates shall be prohibited.  
Operation - elevator hoistway and car doors shall open and close automatically.  
Reopening device - Elevator doors shall be provided with reopening device complying with 11B-407.3.3 that shall stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.  
Height - The device shall not require physical contact to be activated, although contact is permitted to occur before the door reverses.  
Contact - The device shall not require physical contact to be activated, although contact is permitted to occur before the door reverses.  
Duration - Door reopening devices shall remain effective for 20 seconds minimum.  
Door and signal timing - the minimum acceptable time from notification that a car is answering a call or notification of the car assigned at the means for the entry of destination information until the doors of that car start to close shall be calculated from the following equation:  
T = D(1.5 ft/s) or T = D(455mm/s) = 5 seconds minimum where T equals the total time in seconds and D equals the distance (in feet or millimeters) from the point in the lobby or corridor 60 inches directly in front of the farthest call button controlling that car to the centerline of the hoistway door.  
Door delay - Elevator doors shall remain fully open in response to a car call for 5s minimum.  
Width - The width of elevator doors shall comply with Table 11B-407.4.1

**1/VT4** Elevator car requirements - 11B-407.4  
Car dimension - Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 407.4.1. CBC 3002.4.3A where required.  
Floor surfaces - Floor surfaces in elevator cars shall comply with 11B-302 and 11B-303.  
Platform to hoistway clearances - The clearance between the car platform sill and the edge of any hoistway landing shall be 114 inches minimum.  
Leveling - Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of 1/2 inch under rated loading to zero loading condition.  
Illumination - the level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles minimum.  
Elevator car controls - Where provided, they shall comply with 11B-407.4.6 and 11B-309.4.  
Location - Controls shall be located within reach ranges specified in 11B-308.  
Buttons - Car control buttons with floor designations shall comply with the following:  
Size and Shape - Buttons shall have square shoulders, be 3/4 inch minimum in the smallest dimension and shall be raised 1/8 inch plus or minus 1/32 inch above surrounding surface.  
Arrangement - Buttons shall be arranged with numbers in ascending order. When two or more columns of buttons are provided, they shall read from left to right.  
Illumination - Car control buttons shall be illuminated.  
Operation - Car control buttons shall be activated by a mechanical motion that is detectable.  
Keypads - Car control keypads shall be in a standard telephone keypad arrangement and shall comply with 11B-407.4.7.2.  
Emergency controls - Emergency controls shall comply with 11V-407.4.6.4.  
Height - Emergency controls shall have their centerlines 35 inches minimum to 48 inches maximum, 11B-308, above the finish floor.  
Location - Emergency controls, including the emergency alarm, shall be grouped at the bottom of the panel.

**8/VT4** Designations and indicators of car controls - shall comply with 11B-407.4.7.  
Buttons - Car control buttons shall comply with 11B-407.4.7.1.  
Type - Control buttons shall be identified by raised characters or symbols, on a black background, complying with 11B-703.2 and Braille complying with 11B-703.3.  
Location - Raised characters or symbols and Braille designations shall be placed immediately to the left of the control button to which the designations apply.  
Symbols - the control button for the emergency stop, alarm, door open, door close, main entry floor, and phone, shall be identified with raised symbols and Braille as shown in Table 11B-407.4.7.1.3.  
Visible indicators - buttons with floor designations shall be provided with visible indicators to show that a call has been registered. The visible indicator shall extinguish when the car arrives at the designated floor.  
Button Spacing - a minimum clear space of 3/8 inch or other suitable means of separation shall be provided between rows of control buttons.  
Keypads - Keypads shall be identified by characters complying with 11B-703.5 and shall be centered on the corresponding keypad button. The number five key shall have a single raised dot. The dot shall be 0.118 inch to 0.120 inch base diameter and in other aspects comply with Table 11B-703.3.1.

**1/VT4** Car position indicators - Audible and visible car position indicators shall be provided in elevator cars.  
Visible indicators shall comply with 11B-407.4.8.1.  
Size - Characters shall be 1/2 inch high minimum.  
Location - Indicators shall be located above the car control panel or above the car.  
Floor arrival - As the car passes a floor when a car stops at a floor served by the elevator, the corresponding character shall illuminate.  
Destination indicators - In destination-oriented elevators, a display shall be provided in the car with visible indicators to show car destinations.  
Audible indicators shall comply with 11B-407.4.8.2.  
Signal type - The signal shall be an automatic verbal annunciator which announces the floor at which the car is about to stop.  
Signal level - the verbal annunciator shall be 10dB minimum above ambient, but shall not exceed 80 dB, measured at the annunciator.  
Frequency - The verbal annunciator shall have a frequency of 300 Hz minimum to 3000 Hz maximum.  
Emergency communication - Emergency two-way communication systems shall comply with 11B-308. Raised symbols or characters, white in a black background, and Braille shall be provided adjacent to the device and shall comply with 11B-703.2 and 11B-703.3. Emergency two-way communication systems between the elevator and a point outside the hoistway shall comply with ASME A17.1.

**1A/VT3** Support Rail - Support rails shall be provided on at least one wall of the car.  
Location - Clearance between support rails and adjacent surfaces shall be 1 1/2 inches minimum. Top of support rails shall be 31 inches minimum to 33 inches maximum above the floor of the car. The ends of the support rail shall be 6 inches maximum from adjacent walls.  
Surfaces - Support rails shall be smooth and any surface adjacent to them shall be free of sharp or abrasive elements.  
Structural strength - Allowable stresses shall not be exceeded for materials used when vertical or horizontal forces of 250 pounds is applied at any point on the support rail, fastener, mounting device or supporting structure.

PRE-CHECK (PC) DOCUMENTS  
2016 CBC CODE  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

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PROJECT NO: 16093  
DATE: 10/19/2018  
ENGINEERED BY: KAL  
DRAWN BY: MTC

FILE NO. PC-MEM  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL. 03-118291  
AC/MF FLS/ER SS/MC/MK  
DATE 11/3/2018  
PRE-CHECK (PC) DOCUMENT  
CODE: 2016  
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SHEET NAME:  
**ACCESS COMPLIANCE**

SHEET NO:  
**VT4**

L:\asst16\16093 - MEM - 2016 - CBC - PC-MEM - STA-01\VT4.dwg Time: 05/23/2018 - 11:13:44am Log: pc-mem.dwg Dim: 0.5

BID SET 10/01/2021