

SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL CLASSROOM ADDITION AND INTERIOR RENOVATION

BUILDING PACKAGE
SPARTANBURG, SC

Issue Date/ Description: 12/20/2021, 100% CONSTRUCTION DOCUMENTS
MPS Project No: 021352

OWNER

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DANNY BALON

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PAUL GURLEY

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JULIE SISK

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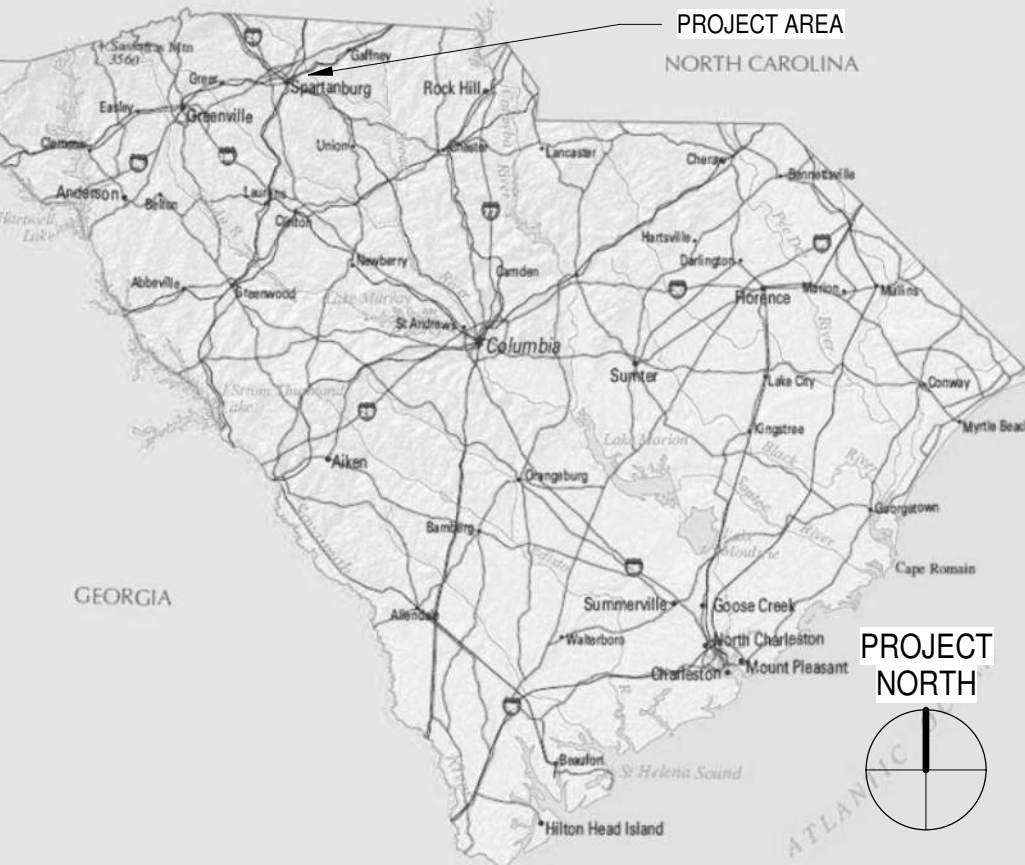
DAN REIDER

ELECTRICAL

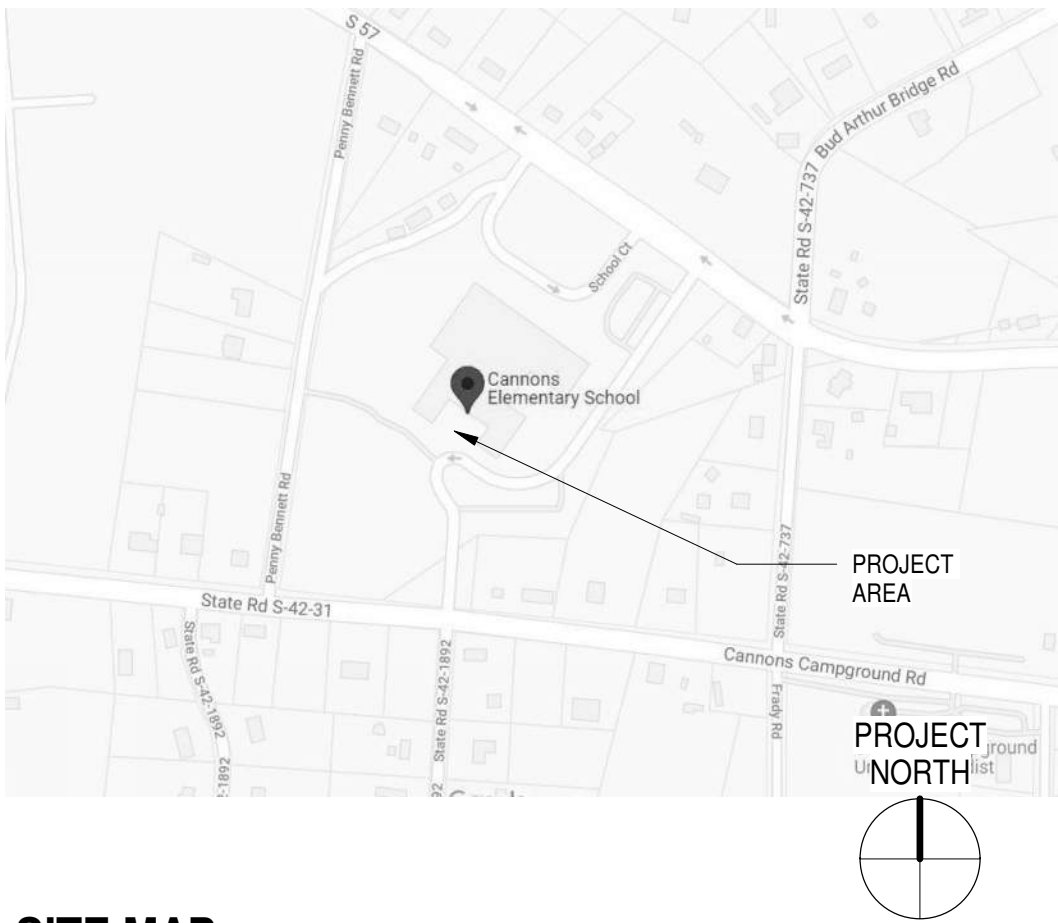
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BRIAN MELSON

DRAWING LIST

GENERAL	
G001	COVER SHEET
G010	BUILDING AREA PLAN
G011	LIFE SAFETY PLAN
G012	FS FORM
ARCHITECTURAL	
A001	ABBREVIATION, SYMBOLS AND LEGENDS
A002	PARTITION TYPES
A010	ARCHITECTURAL SITE PLAN
A110	FLOOR PLAN, DEMO PLAN, ROOF PLAN, INT. ELEVATIONS
A210	REFLECTED CEILING PLAN
A300	BUILDING ELEVATIONS
A320	WALL SECTIONS
A331	ENLARGED SECTION DETAILS
A400	ENLARGED BATHROOM PLANS AND ELEVATIONS
A800	DOOR/STOREFRONT SCHEDULE AND DETAILS
ID110	FINISH LEGEND AND SCHEDULE
R100	ROOF PLAN
R200	DETAILS
R201	DETAILS
ROOF	
R100	ROOF PLAN
R200	DETAILS
R201	DETAILS
STRUCTURAL	
S0.01	PROJECT NOTES & DESIGN CRITERIA - SH. 1
S0.02	PROJECT NOTES - SH. 2
S0.03	SPECIAL INSPECTION NOTES
S1.0	FOUNDATION PLAN
S1.1	FOUNDATION SECTIONS & DETAILS
S2.1	LINTEL SECTIONS & DETAILS
S3.0	ROOF PLAN
S3.1	FRAMING SECTIONS & DETAILS
S3.2	FRAMING SECTIONS & DETAILS
S3.3	BUILDING FRAMING SECTIONS
S3.4	CFS SHEAR WALL SECTION
PLUMBING	
P001	PLUMBING NOTES, LEGENDS & SCHEDULES
P002	PLUMBING DETAILS
P003	PLUMBING DETAILS
P110	FLOOR PLAN - PLUMBING - SUPPLY
P110A	FLOOR PLAN - PLUMBING - WASTE/VENT
P111	ROOF PLAN - PLUMBING
P200	PLUMBING - SUPPLY RISER
P201	PLUMBING - WASTE/VENT RISER
MECHANICAL	
M110	FLOOR PLAN - HVAC
M111	ROOF PLAN - HVAC
M200	BUILDING SECTIONS - HVAC
M300	LEGENDS, NOTES, AND SCHEDULES - HVAC
M301	SCHEDULES - HVAC
M400	DETAILS - HVAC
M402	DETAILS - HVAC
M403	DETAILS - HVAC
ELECTRICAL	
E001	OVERALL FLOOR PLAN - ELECTRICAL
E002	PANELBOARD SCHEDULES
E110	FLOOR PLAN - LIGHTING
E200	ELECTRICAL SCHEDULES & DETAILS
E210	FLOOR PLAN - ELECTRICAL
E310	FLOOR PLAN - FIRE ALARM
TELECOMMUNICATIONS	
T000	TECHNOLOGY - INDEX SHEET
T010	TECHNOLOGY - SITE PLAN
T101	TECHNOLOGY - FLOOR PLAN
T500	TECHNOLOGY - DETAILS
T501	TECHNOLOGY - DETAILS

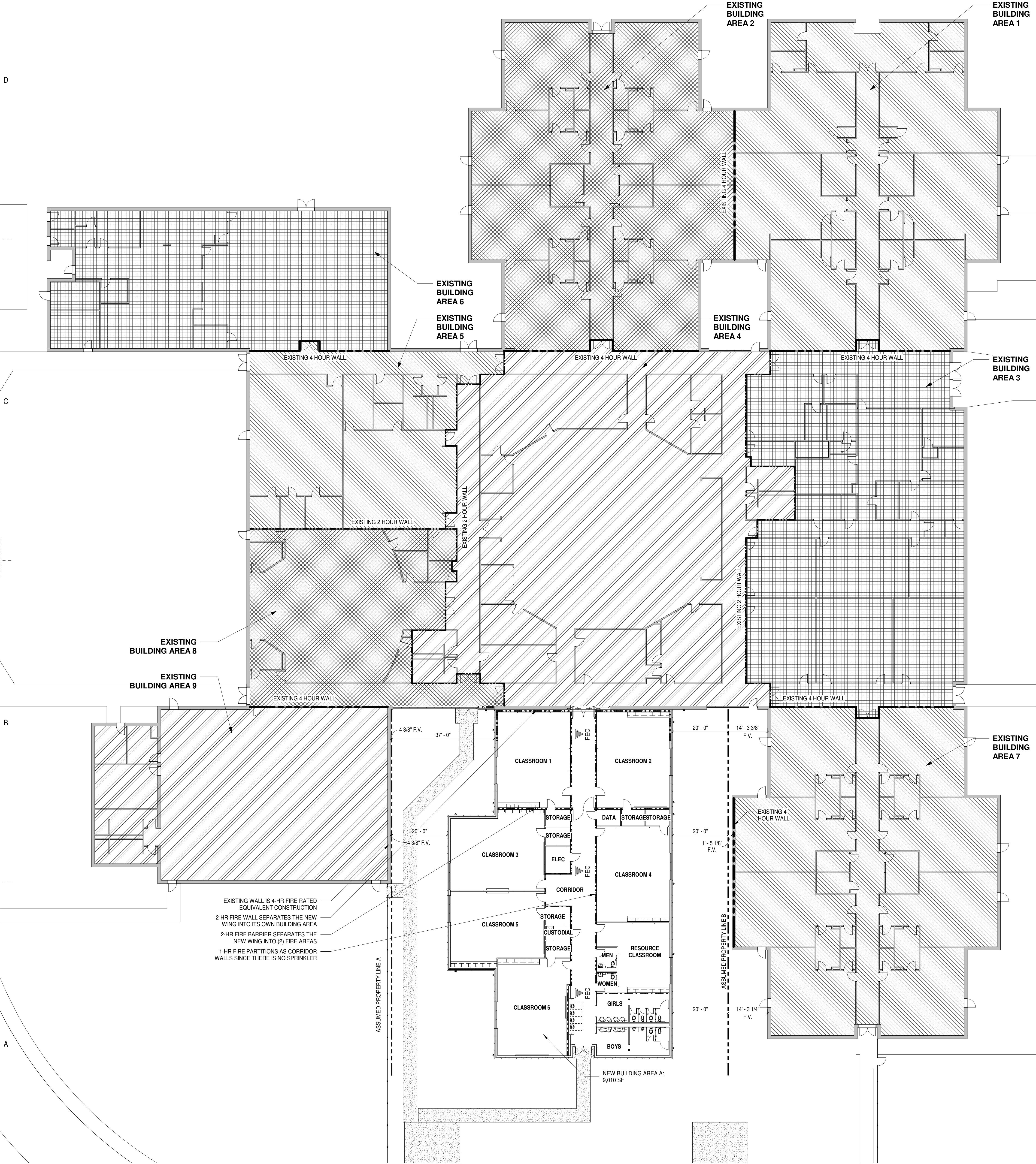


VICINITY MAP

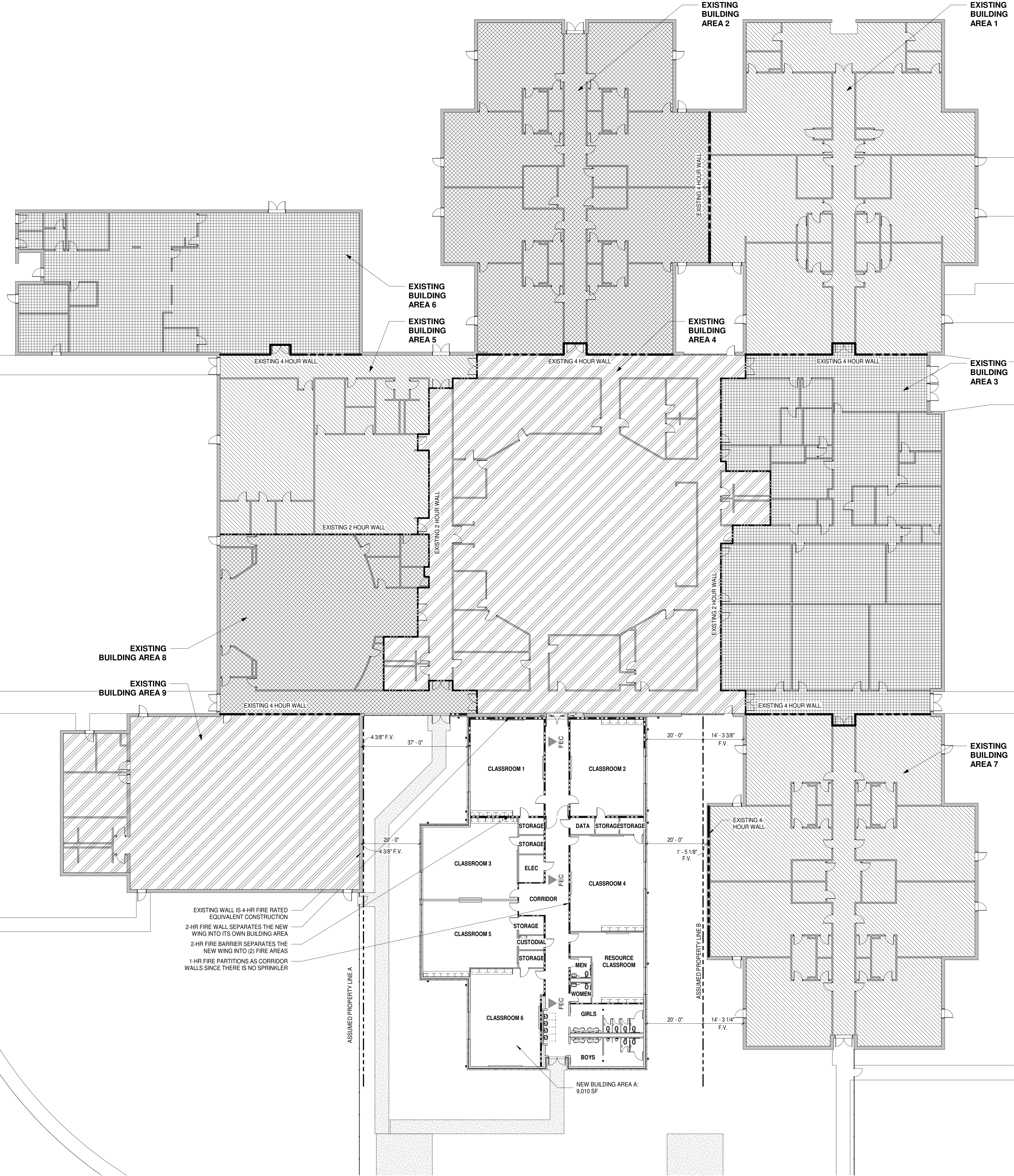


SITE MAP

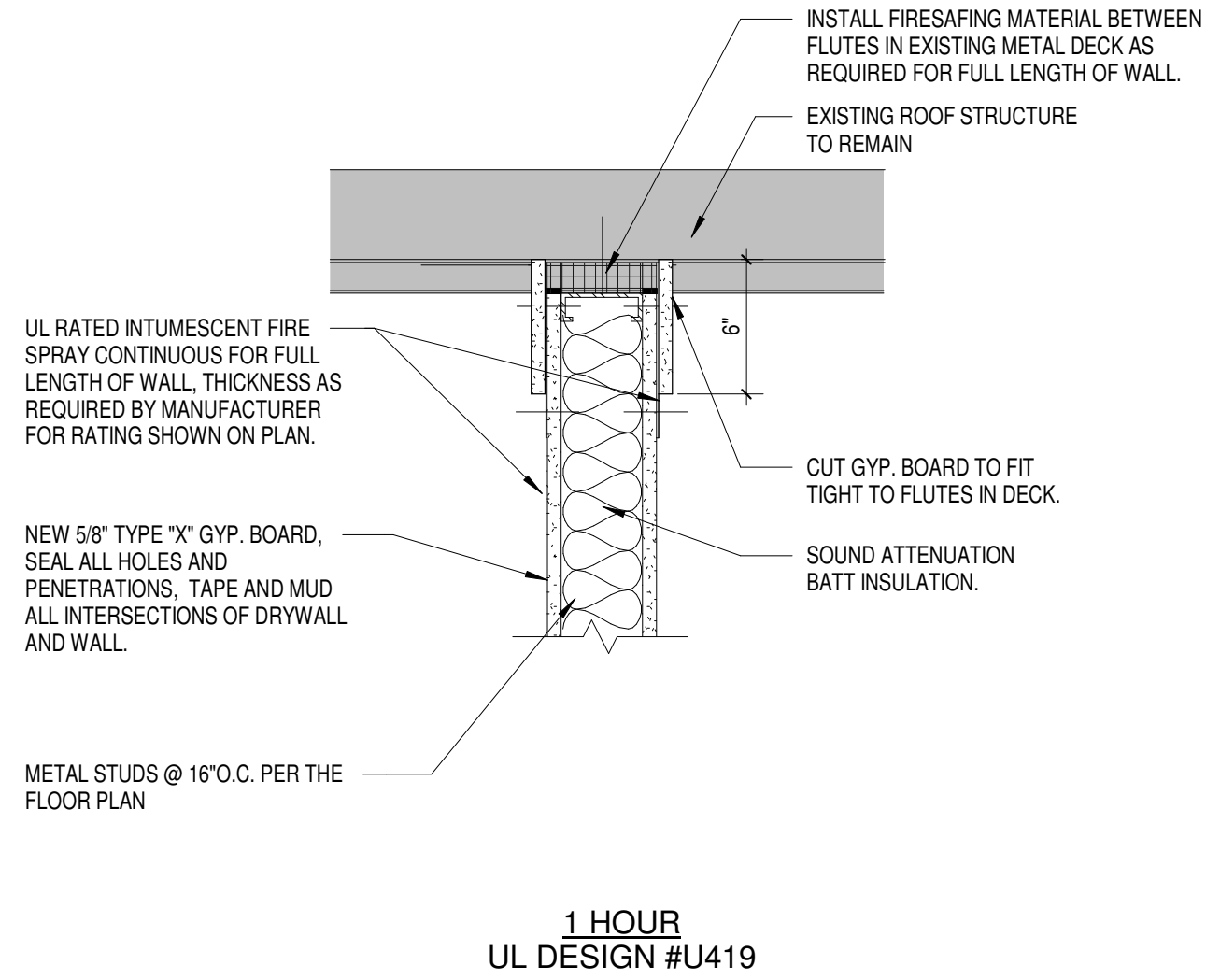
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A1
G010
1/16" = 1'-0"



C4
G010
1 1/2" = 1'-0"



B4
G010
1 1/2" = 1'-0"

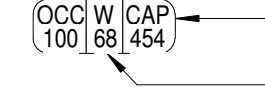




EGRESS PATH OF TRAVEL

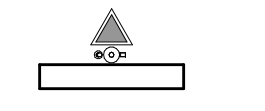


DOOR EXIT OCCUPANT LOAD

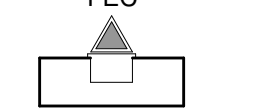


DOOR EXIT OCCUPANT CAPACITY

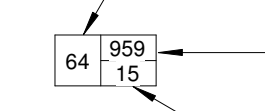
DOOR CLEAR EXIT WIDTH (IN INCHES)



BRACKET MOUNTED FIRE EXTINGUISHER



RECESSED OR SEMI-RECESSED FIRE
EXTINGUISHER CABINET



ROOM AREA



1 HR RATED FIRE PARTITION

2 HR RATED FIRE BARRIER

OVERALL LIFE SAFETY PLAN

$$1/16'' = 1'-0''$$

ABBREVIATION NOTES:

1. ABBREVIATIONS LISTED BELOW APPLY TO THE ARCHITECTURAL DRAWINGS ONLY. REFER TO CONSTRUCTION DOCUMENTS PREPARED BY MPS CONSULTANTS FOR ABBREVIATIONS USED.
2. REFER TO FINISH SCHEDULE FOR FINISH MATERIAL ABBREVIATIONS NOT SHOWN.

A/C	AIR CONDITION	DBL	DOUBLE	GALV	GALVANIZED	OA	OVERALL	TBD	TO BE DETERMINED
A/E	ARCHITECT/ENGINEER	DEMO	DEMOLITION	GB	GRAB BAR	OC	ON CENTER	T&G	TONGUE AND GROOVE
ABAN	ABANDON	DEPT	DEPARTMENT	GC	GENERAL CONTRACTOR	OD	OUTSIDE DIAMETER	TD	TRENCH DRAIN
ABRSV	ABRASIVE	DI	DRAINAGE	GDR	GUARD RAIL	OF	OVERFLOW	TEMP	TEMPORARY
ACC	ACCESSIBLE	DIA	DIAMETER	GFR	GLASS-FIBER-REINFORCED CONCRETE	OF CI	OWNER FURNISHED CONTRACTOR INSTALLED	TFA	TO FLOOR ABOVE
ACST INSUL	ACOUSTICAL INSULATION	DIA	DIAMETER	GFRG	GLASS-FIBER-REINFORCED GYPSUM	OFD	OVERFLOW DRAIN	TFB	TO FLOOR BELOW
ACST PNL	ACOUSTICAL PANEL	DIM	DIMENSION	GFRP	GLASS-FIBER-REINFORCED PLASTER	OF OI	OWNER FURNISHED OWNER INSTALLED	THRU	THROUGH
ADP	AUTOMATIC CONTROL PANEL	DISP	DISPENSER	GFRP	GLASS-FIBER-REINFORCED PLASTER	QFS	OUTSIDE FACE OF STUDS	TLT	TOL LET
ACST	ACOUSTIC	DIST	DISTANCE	GL	GLASS GLAZING	OPNG	OPENING	T/	TOP OF
ACT	ACOUSTICAL CEILING TILE	DMPF	DAMP PROOFING	GMP	GUARANTEED MAXIMUM PRICE	OPP	OPPOSITE	TOM	TOP OF MASONRY
AD	AREA DRAIN	DPTN	DEMOUNTABLE PARTITION	GR	GROUT	OPR	OPERABLE	TOP	TOP OF PARAPET
ADJ	ADJACENT or ADJUSTABLE	DS	DOWNSPOUT	GRAN	GRANITE			TOS	TOP OF SLAB, TOP OF STEEL
AF	ABOVE FINISHED FLOOR	DSP	DRY STANDPIPE	QT	GREASE TRAP			TOW	TOP OF WALL
AFG	ABOVE FINISHED GRADE	DSP	DISPOSAL	GYP BD	GYPSUM WALL BOARD			TP	TOILET PARTITION
AFS	ABOVE FINISHED SLAB	DW	DISHWASHER					TRS (or TR)	TRANSITION STRIP
AHJ	AUTHORITY HAVING JURISDICTION								
ALT	ALTERNATE								
ALUM	ALUMINUM								
APPROX	APPROXIMATE								
ARCH	ARCHITECT								
ASB	ASBESTOS								
ASC	ABOVE SUSPENDED CEILING								
ASD	AUTOMATIC SPRINKLER DRAIN								
ASL	ARCHITECT'S SUPPLEMENTAL INSTRUCTION								
ASSN	ASSOCIATION								
AVG	AVERAGE								
BAT	BATTEN								
BD	BOARD								
BD FT	BOARD FEET (FOOT)								
BDRY	BOUNDARY								
BF	BOTH FACES								
BFF	BELOW FINISH FLOOR								
BLDG	BUILDING								
BLKHD	BULKHEAD								
BLKT	BLOCK								
BN	BULLNOSE								
BSTL	BOTTOM OF STEEL								
BOT	BOTTOM								
BSMT	BASEMENT								
BTWN	BETWEEN								
BYP	BY PASS								
CAB	CABINET								
CANTIL	CANTILEVER								
CB	CORNER BEAD								
CCTV	CLOSED CIRCUIT TELEVISION								
CF	CONTRACTOR FURNISHED								
CF CI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED								
CF OI	CONTRACTOR FURNISHED OWNER INSTALLED								
CPE	CONTRACTOR FURNISHED EQUIPMENT								
CPMF	COLD-FORMED METAL FRAMING								
CG	CORNER GUARD								
CH BD	CHALKBOARD								
CIP	CAST-IN-PLACE								
CJ	CONSTRUCTION JOINT/ CONTROL JOINT								
C/L	CENTER LINE								
CLDG	CLADDING								
CLG	CEILING								
CLR	CLEAR								
CLT	CLEAT								
CMPSST	COMPOSITE								
CMU	CONCRETE MASONRY UNIT								
CNCL	CONCEALED								
CO	CLEANOUT								
COL	COLUMN								
CONC	CONCRETE								
COND	CONDITION								
CNP	CONFERENCE								
COORD	COORDINATE								
CORR	CORRIDOR								
CP	CONTROL PANEL								
CSB	CONCRETE SPLASH BLOCK								

EA	EACH	EL	ELEVATION	ELAST	ELASTOMERIC	ELEC	ELECTRIC	ELEM	ELEMENTARY	ELEV	ELEVATOR	EMER	EMERGENCY	EMER SHR	EMERGENCY SHOWER	ENAM	ENAMEL	ENCL	ENCLOSURE	ENTR	ENTRANCE	EOS	EDGE OF SLAB	EP	EXPOXY PAINT	EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)	EPX	EPOXY	EQ	EQUAL	EQUIP	EQUIPMENT	EQUIV	EQUIVALENT	ERD	EXISTING ROOF DRAIN	ESCAL	ESCALATOR	EW	ELECTRIC WATER HEATER	EWS	EYE WASH STATION	EXIST	EXISTING	EXP	EXPOSED	EXT	EXTERIOR	FA	FIRE ALARM	FC	FLOOR CLEANOUT	FD	FLOOR DRAIN	FDC	FIRE DEPARTMENT CONNECTION	FDCC	FIRE DEPARTMENT CONNECTION CABINET	FE	FIRE EXTINGUISHER	FEC	FIRE EXTINGUISHER CABINET	FF&E	FURNITURE, FIXTURE, AND EQUIPMENT	FI	FIRE HOSE/ FIRE HYDRANT	FIN	FINISH	FIN GR	FINISH GRADE	FIXT	FIXTURE	FL	FLOORLINE	FO	FLOORED OPENING	FOC	FACE OF CONCRETE/ FACE OF CURB	FOF	FACE OF FINISH	FOM	FACE OF MASONRY	FOS	FACE OF STUD	FOW	FACE OF WALL	FRG	FIBER REINFORCED GYPSUM	FURN	FURNITURE
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JAN	JANITOR	JT	JOINT	KD	KNOCKED DOWN	KPL	KICKPLATE	LAM	LAMINATE	LAM GL	LAMINATED GLASS	LAV	LAVATORY	LCD	LINEAR CEILING DIFFUSER	LCMU	LIGHTWEIGHT CONCRETE MASONRY UNIT	LDR	LEADER	LFG	LINEAR FEET (FOOT)	LOS	LINE OF SIGHT	LVD	LOUVER DOOR	LVR	LOUVER	LWC	LIGHTWEIGHT CONCRETE	MAINT	MAINTENANCE	MAX	MAXIMUM	MC	METAL-CLAD	MCB	METAL CORNER BEAD	MED	MEDICAL	MEL	MELAMINE	MEZZ	MEZZANINE	MF	MILL FINISH	MD	MIDDLE	MIN	MINIMUM	MIR	MIRROR	MISC	MISCELLANEOUS	MOLD	MOLDING (MOLDING)	MLWK	MILLWORK	MOD BIT	MODIFIED BITUMEN	MOP RACK	MOISTURE RESISTANT	MTL	METAL	MICROWAVE	MEMBRANE WATERPROOFING	N/A	NOT APPLICABLE	NCOMBL	NONCOMBUSTIBLE	NIC	NOT IN CONTRACT	NLDBEARING	NUMBER	NOM	NOMINAL	NTP	NOTICE TO PROCEED
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PERF	PERFORATED	PERM	PERMANENT	PERP	PERPENDICULAR	PEGBD	PERGBOARD	PLAM	PLASTIC LAMINATE	PLBG	PLYWOOD	POL	POLISHED	PORC	PORCELAIN	PREFAB	PREFABRICATE	PREFIN	PREFINISH	PT	PRESSURE TREATED PAINT	R	RADIUS	RADN	RADIATION	RB	RESILIENT BASE	RBR	RUBBER	RTF	REFLECTED CEILING PLAN	RCP	ROOF DRAIN	REBAR	REINFORCING STEEL BARS	REF	REFERENCE	RENF	REINFORCE	REQD	REQUIRED	RESIL	RESILIENT	RES	RESIN PANEL	RFG	ROOFING	RH	ROOF HATCH	RLLG	RAILING	RM	ROOM	RO	ROUGH OPENING	RTF	RUBBER TILE FLOOR	RTU	ROOF TOP UNIT	RV	ROOF VENT	RVL	REVEAL	SB	SPLASH BLOCK	SBSTR	SUBSTRATE	SCHD	SCHEDULE	SCRN	SCREEN	SD	SMOKE DETECTOR	SHR	SHOWER	SHRD	SHOWER DRAIN	SIM	SIMILAR	SP	STANDPIPE	SPEC	SPECIFICATION(S)	SPKLR	SPEAKER	SQ FT	SQUARE FOOT	SS	SOLID SURFACE	SST	STAINLESS STEEL	ST	STAIRS	STC	SOUND TRANSMISSION CLASS	STOR	STORAGE	STN	STAIN	SUSP CLG	SUSPENDED CEILING	SYMM	SYMMETRICAL
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UNFIN	UNFINISHED	UNLESS NOTED OTHERWISE	VCT	VINYL COMPOSITION TILE	VERT	VERTICAL	VEST	VESTIBULE	VERIFY IN FIELD	VENER	VENER	WI	WITH	WO	WITHOUT	WB	WOOD BASE	WC	WATER CLOSET	WD	WOOD	WF	WASH FOUNTAIN	WH	WATER HEATER	WHSE	WAREHOUSE	WSP	WALL PROTECTION	WSCOT	WAINSCOT	WWF	WELDED WIRE FABRIC	WWM	WELDED WIRE MESH	XPS	EXTRUDED POLYSTYRENE BOARD (INSULATION)
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LINE TYPES

BEYOND	---
CENTERLINE	- - - - -
DEMOLISHED	- - - - -
HIDDEN	- - - - -
OVERHEAD	- - - - -

ANNOTATIONS

FACE DIMENSION	1' 0" 1' 0"
CENTERLINE DIMENSION	1' 0" 1' 0"
COLUMN GRID TAG - NEW	1
COLUMN GRID TAG - EXISTING	A
ALIGN FACE OF SURFACES	ALIGN
SPOT ELEVATION	0'-0"
LEVEL / ELEVATION HEIGHT	Name Elevation
REVISION TAG AND CLOUD	1

ANNOTATIONS

NORTH	NORTH (PROJECT OR TRUE)
NORTH	PROJECT NORTH
TRUE NORTH	TRUE NORTH
WINDOW / CURTAIN WALL TAG	A1
LOUVER TAG	L1
WALL TAG	SA4
DEMOLITION KEYNOTE	01
KEYNOTE	01
ACCESSORY TAG	TA-1
FURNITURE TAG	F1
EQUIPMENT TAG	E123456
SIGNAGE TAG	S99
CEILING TAG	ACT
CEILING TYPE (IF / WHEN INDICATED)	10'-0"
CEILING HEIGHT	10'-0"

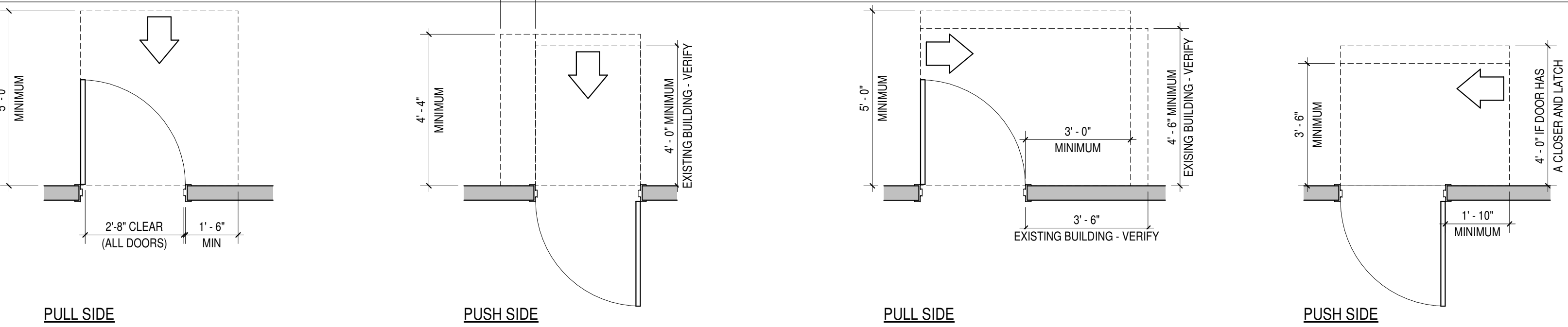
ROOM TAG(S):

ROOM NAME	ROOM TAG WITH AREA (NO ROOM #)
150 SF	
DEPT/ PHASE	DEPARTMENT OR PHASE (IF SHOWN)
009999	
ROOM NAME	ROOM NAME
009999	
ROOM # = 2 OR 3 DIGITS	
FLOOR # = 1 OR 2 DIGITS	
ROOM NAME	AREA (IF SHOWN)
009999	
150 SF	
AREA ONLY	
150 SF	
DOOR TAG:	
FLOOR # = 1 OR 2 DIGITS	
ROOM # = 2 OR 3 DIGITS	
DOOR SEQUENCE (ALPHABETIC)	
DOOR RATING (IF SHOWN)	
122A	
1hr	

VIEW REFERENCE

PHOTO REFERENCE TAG	1/A610
PLAN VIEW TITLE REFERENCE	PLAN NUMBER
VIEW NAME	VIEW NAME
VIEW SCALE	1/8" = 1'-0"
CURRENT SHEET	
DETAIL VIEW TITLE REFERENCE	DETAIL NUMBER
VIEW NAME	VIEW NAME
VIEW SCALE	1/8" = 1'-0"
CURRENT SHEET	
PLAN / DETAIL CALLOUT	
1	
A103	
REFERENCED SHEET	
BUILDING SECTION CALLOUT	
1	
A610	
REFERENCED SHEET	
WALL SECTION CALLOUT	
1	
A5	
REFERENCED SHEET	
DETAIL SECTION CALLOUT	
1	
A601	
REFERENCED SHEET	
1 Ref	
A510	
1 Ref	
EXTERIOR ELEVATION CALLOUT	
1 Ref	
A1 Ref	
A1011	
A1 Ref	
INTERIOR ELEVATION CALLOUT	
A1 Ref	

ABBREVIATIONS LIST



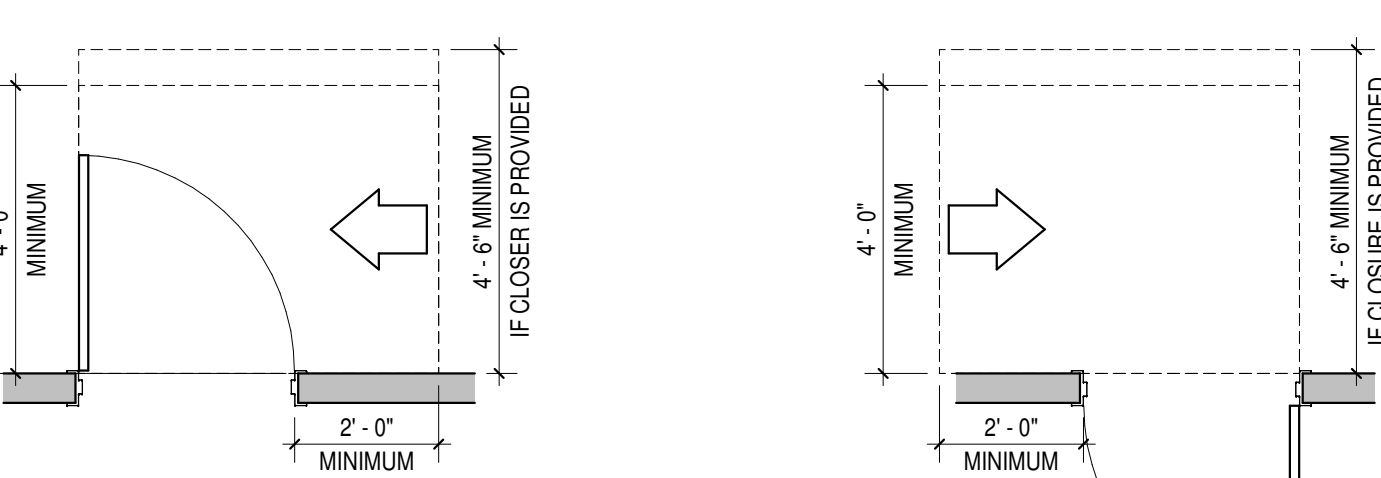
PULL SIDE

PUSH SIDE

PULL SIDE

PUSH SIDE

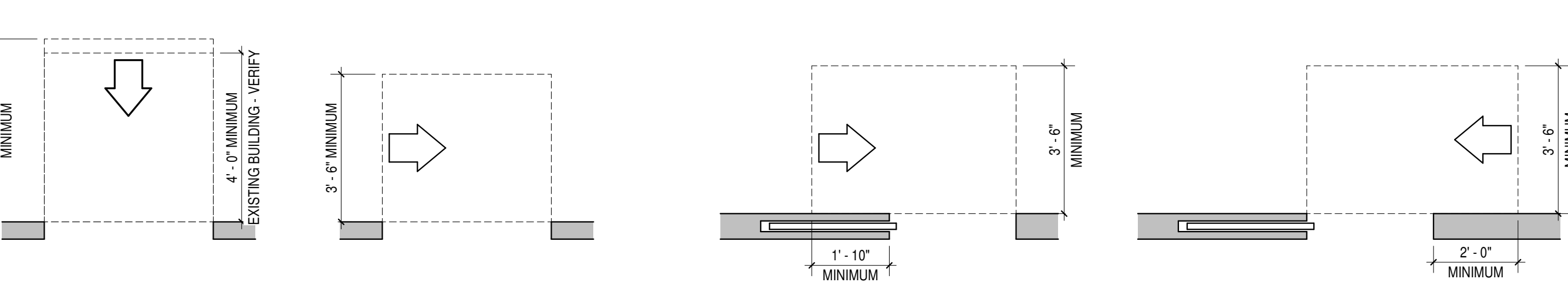
FRONT APPROACHES



PULL SIDE

PUSH SIDE

LATCH SIDE APPROACHES



FRONT APPROACH

SIDE APPROACH

POCKET OR HINGE APPROACH

STOP OR LATCH APPROACH

DOORWAY W/O DOORS, SLIDING DOORS, AND FOLDING DOORS

MANEUVERING CLEARANCES AT DOORS (ICC/ANSI-2017)

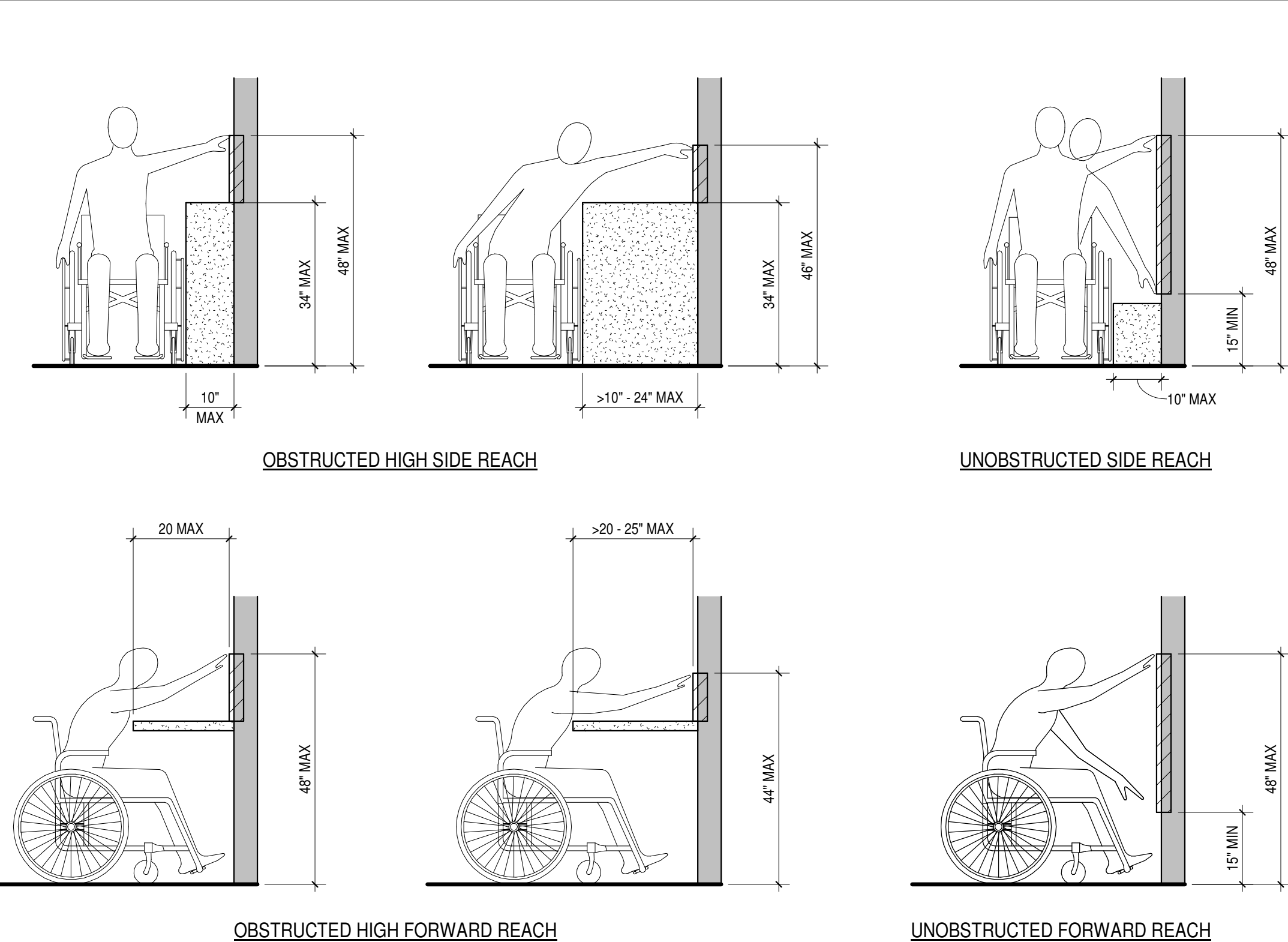
NOTE:

1. ALL DIMENSIONS SHOWN ARE MINIMUMS.
2. DIMENSIONS AND CLEARANCES SHOWN MUST BE PROVIDED AT ALL DOORS CONTRACTOR SHALL REVIEW FIELD LAYOUT AND CONFIRM THAT ALL OF THE APPROPRIATE CLEARANCES ARE PROVIDED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION. ANY REMEDIAL WORK THAT SHOULD HAVE BEEN AVOIDED BY BRINGING DISCREPANCIES TO THE ARCHITECT'S ATTENTION SHALL BE AT THE CONTRACTORS EXPENSE.

STANDARD GRAPHICS AND SYMBOLS

BATT INSULATION	CONCRETE	POROUS FILL (STONE OR GRAVEL)	STEEL
BRICK	CONCRETE MASONRY UNIT (CMU)	RIGID INSULATION	WOOD - FINISHED
COMPACTED EARTH	PLYWOOD	SAND, PLASTER, CEMENT, GROUT, GYPSUM WALL BOARD	WOOD - ROUGH

TYPICAL MATERIALS



REACH RANGES

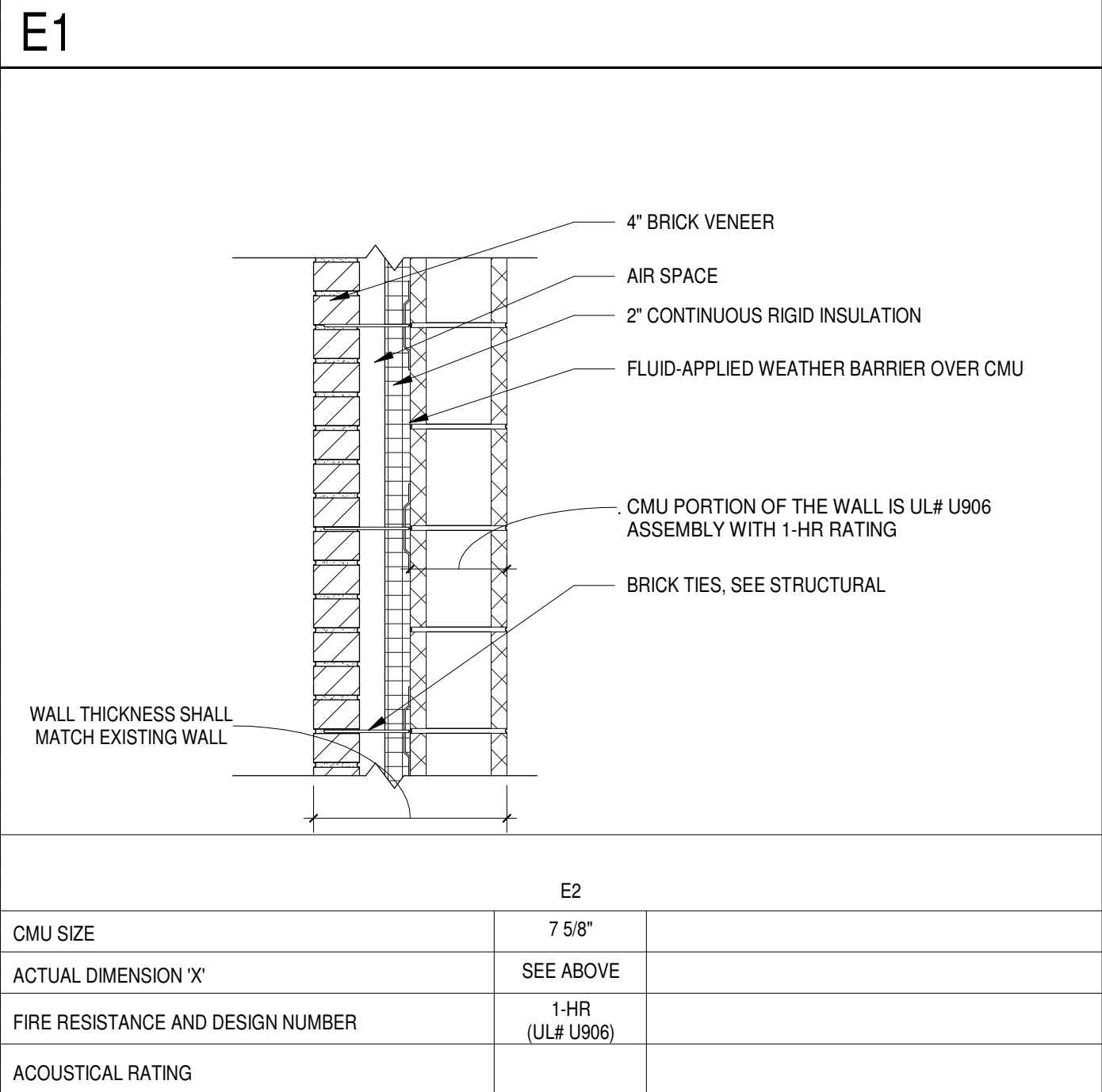
GENERAL NOTES:

1. ALL WORK SHALL MEET THE MINIMUM REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE APPLICABLE CODES, AS INDICATED ON THIS SHEET AND ALL OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS HAVING JURISDICTION.
2. DO NOT SCALE DRAWINGS. CLARIFY ANY DIMENSIONAL DISCREPANCIES WITH THE ARCHITECT PRIOR TO CONTINUING WITH THE WORK.
3. CLARIFY ANY COORDINATION DISCREPANCIES BETWEEN ENGINEER DRAWINGS AND ARCHITECTURAL DRAWINGS WITH THE ARCHITECT PRIOR TO CONTINUING WITH THE WORK.
4. ALL WORK LISTED, SHOWN OR IMPLIED ON THE CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR EXCEPT WHERE OTHERWISE NOTED.

GENERAL NOTES

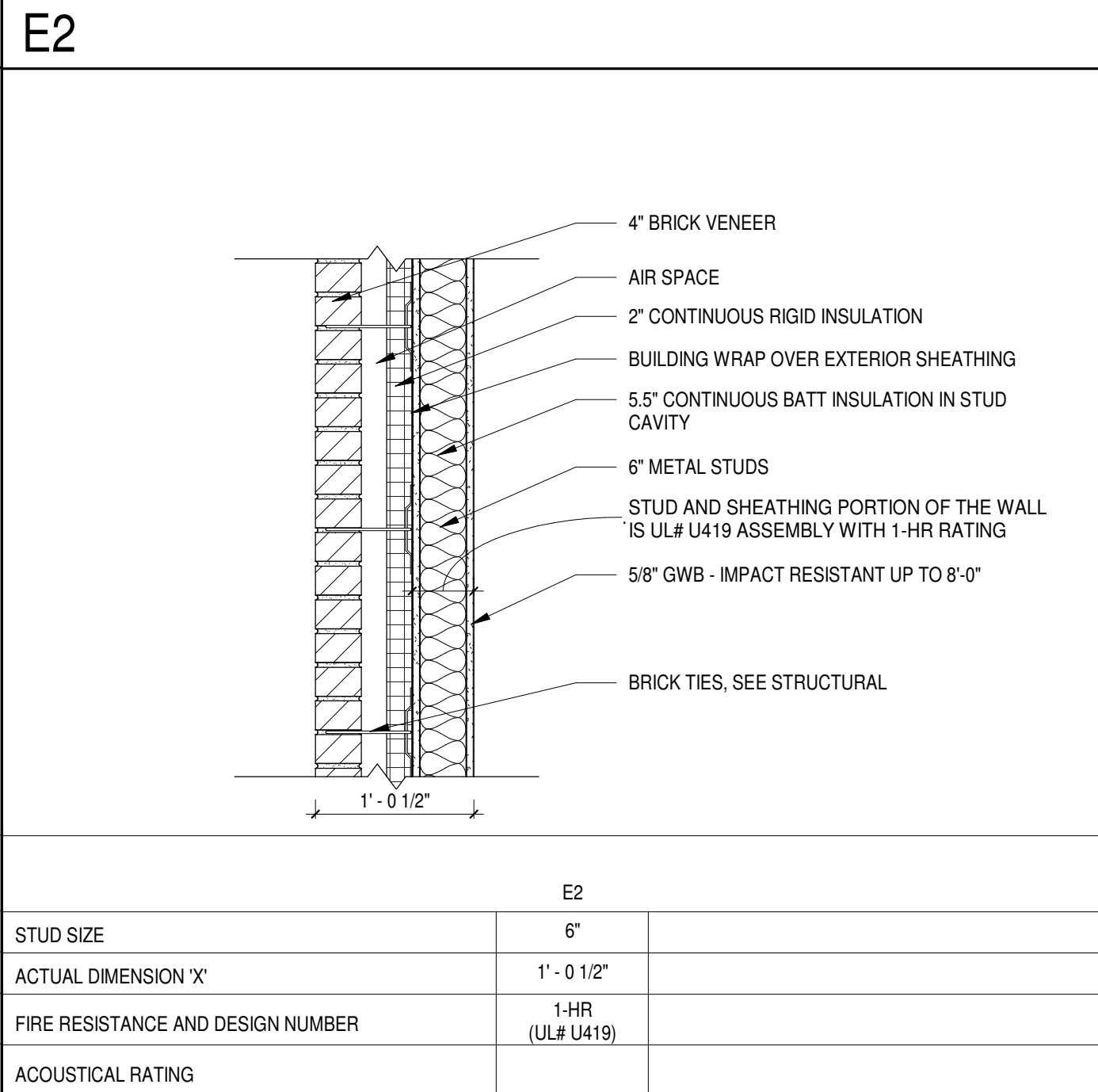
ALL DIMENSIONS ARE FACE OF STUD, CMU OR FINISH FACE OF EXISTING WALL. CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE. GYPSUM WALL BOARD LAYERS ON RATED WALLS SHALL BE CONTINUOUS THROUGH ALL INTERSECTIONS WITH NON-RATED WALLS. REFER TO FIRE WALL PRIORITY DIAGRAM. REFERENCE ALL FLOOR PLANS AND LIFE SAFETY PLANS FOR RATED WALL LOCATIONS AND RATINGS. PROVIDE MOLD AND MOISTURE RESISTANT GYPSUM WALL BOARD IN ALL TOILET AND JANITOR ROOMS. PROVIDE CEMENT BOARD IN ALL BATHROOM AREA WALLS WITH TILE FINISH. PROVIDE IMPACT RESISTANT GYPSUM WALL BOARD UP TO 8'-0" IN ALL AREAS UNLESS OTHERWISE NOTED. AT ALL JOINTS AT TOP OF ALL FIRE RATED PARTITIONS, PROVIDE COMPLETE UL LISTED FIRE RESISTIVE JOINT SYSTEM TO MATCH FIRE RESISTANCE OF WALL ASSEMBLY AND THAT IS ALSO COMPATIBLE WITH JOINT SUBSTRATES. ANY PORTION OF GYPSUM WALL BOARD THAT BECOMES WET OR SHOWS SIGNS OF MOISTURE DAMAGE, EITHER BEFORE OR AFTER INSTALLATION, IS TO BE REMOVED IMMEDIATELY AND REPLACED WITH NEW DRY GYPSUM WALL BOARD. INTERIOR PARTITIONS MAY HAVE ADDITIONAL FINISHES. REFERENCE FINISH SCHEDULE AND DETAIL SHEETS FOR ADDITIONAL INFORMATION. PROVIDE PROJECT SPECIFIC DELEGATED DESIGN DATA INCLUDING STUD SPACING, STUD GAUGE, BRACKING AND DEFLECTION. SOUND ATTENUATION BLANKET IS REQUIRED AT ALL INTERIOR PARTITIONS AND SHALL RUN FULL HEIGHT OF PARTITION UNLESS NOTED OTHERWISE. SOUND ATTENUATION BATT SHALL BE AS FOLLOWS: a. FIRE RESISTANT PARTITIONS: MINERAL WOOL SOUND ATTENUATION FIRE BLANKET (SAFB) - FULL STUD DEPTH b. NON-RATED PARTITIONS: UNFACED FIBERGLASS SOUND ATTENUATION BATTS (SAB) - FULL STUD DEPTH c. MINOR WALLS OR OTHER WALLS NOT TAGGED WILL BE OF THE SAME WALL TYPE AS ADJACENT WALLS (UNLESS OTHERWISE NOTED). d. COORDINATE AND PROVIDE ALL REQUIRED BLOCKING WITHIN THE WALLS. THIS INCLUDES BUT IS NOT LIMITED TO, ALL ML WORK, CASEWORK, GRAB BARS, LCD MONITORS, AND TOILET PARTITIONS. e. INSTALL GYPSUM WALL BOARD ON INTERIOR PARTITIONS WITH A MINIMUM 1/4" GAP BETWEEN THE GYPSUM WALL BOARD AND THE FINISHED FLOOR.

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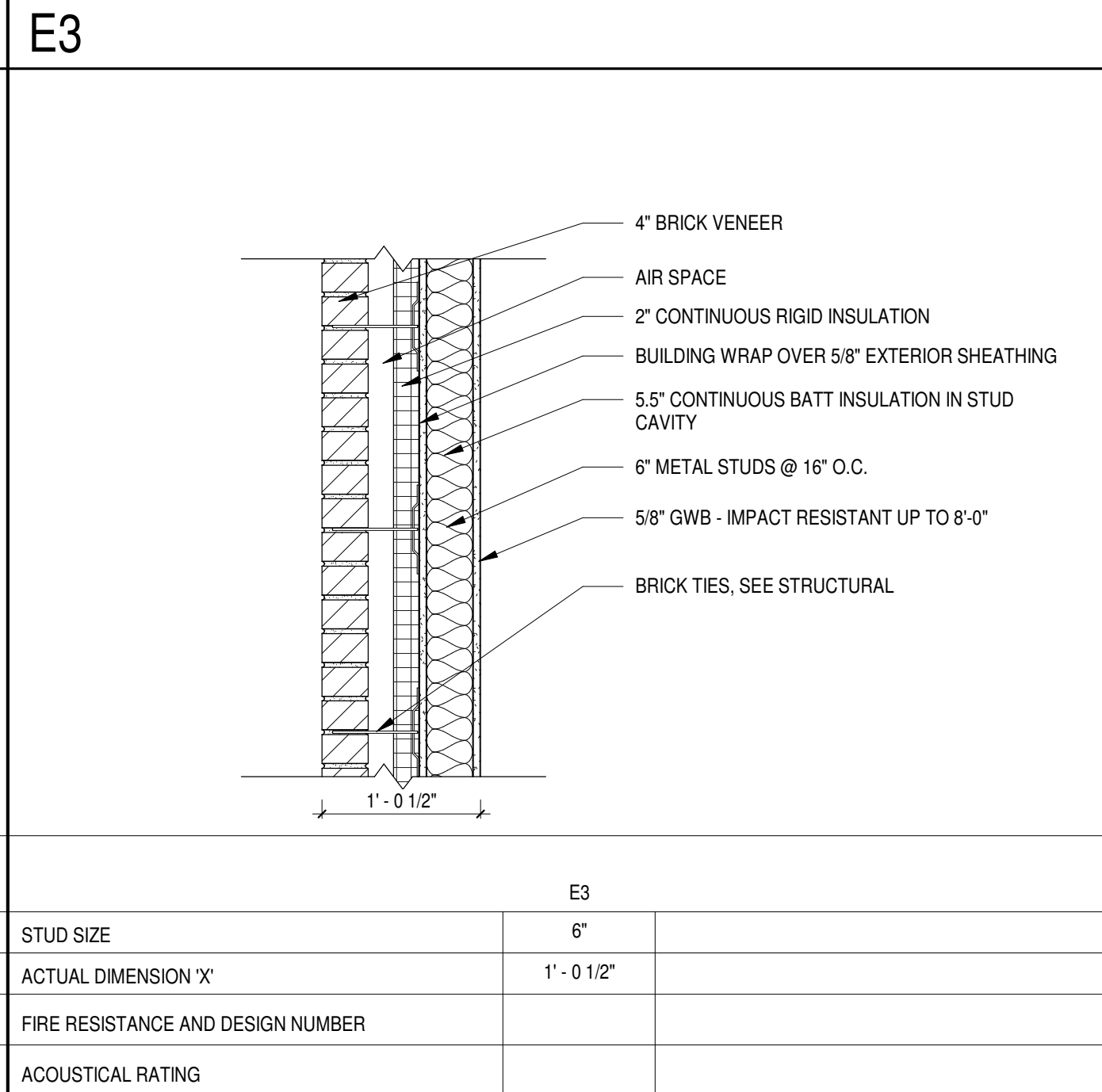
CMU SIZE	7 5/8"		
ACTUAL DIMENSION 'X'	SEE ABOVE		
FIRE RESISTANCE AND DESIGN NUMBER	1-HR (UL# U906)		
ACOUSTICAL RATING			

SA



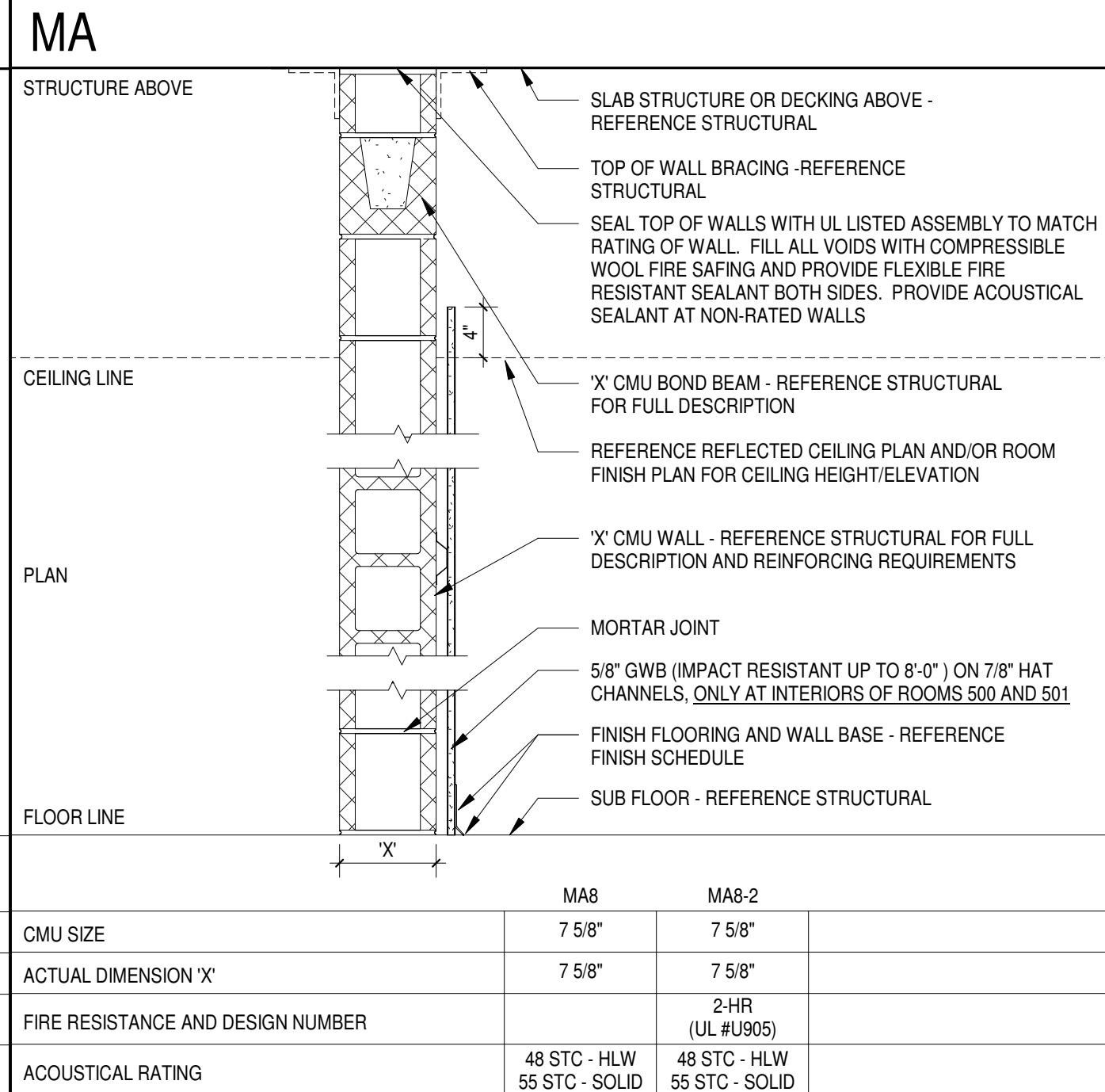
STUD SIZE	6"		
ACTUAL DIMENSION 'X'	1' - 0 1/2"		
FIRE RESISTANCE AND DESIGN NUMBER	1-HR (UL# U419)		
ACOUSTICAL RATING			

SC



STUD SIZE	6"		
ACTUAL DIMENSION 'X'	1' - 0 1/2"		
FIRE RESISTANCE AND DESIGN NUMBER			
ACOUSTICAL RATING			

SE



CMU SIZE	MA8	MA8-2	
ACTUAL DIMENSION 'X'	7 5/8"	7 5/8"	
FIRE RESISTANCE AND DESIGN NUMBER		2-HR (UL# U906)	
ACOUSTICAL RATING	48 STC - HLW 56 STC - SOLID	48 STC - HLW 55 STC - SOLID	

GENERAL PARTITION NOTES

- PLAN DIMENSIONS ARE FACE OF STUD, CMU OR FINISH FACE OF EXISTING WALL. CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE.
- GYPSUM WALL BOARD LAYERS ON RATED WALLS SHALL BE CONTINUOUS THROUGH ALL INTERSECTIONS WITH NON-RATED WALLS. REFER TO FIRE WALL PRIORITY DIAGRAM.
- REFERENCE ALL FLOOR PLANS AND LIFE SAFETY PLANS FOR RATED WALL LOCATIONS AND RATINGS.
- PROVIDE MOLD AND MOISTURE RESISTANT GYPSUM WALL BOARD IN ALL TOILET AND JANITOR ROOMS.
- PROVIDE CEMENT BOARD IN ALL BATHROOM AREA WALLS WITH TILE FINISH.
- PROVIDE IMPACT RESISTANT GYPSUM WALL BOARD UP TO 8'-0" IN ALL AREAS UNLESS OTHERWISE NOTED.
- AT ALL JOINTS AT TOP OF ALL FIRE RATED PARTITIONS, PROVIDE COMPLETE UL LISTED FIRE RESISTIVE JOINT SYSTEM TO MATCH FIRE RESISTANCE OF WALL ASSEMBLY AND THAT IS ALSO COMPATIBLE WITH JOINT SUBSTRATES.
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- INTERIOR PARTITIONS MAY HAVE ADDITIONAL FINISHES. REFERENCE FINISH SCHEDULE AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
- PROVIDE PROJECT SPECIFIC DELEGATED DESIGN DATA INCLUDING STUD SPACING, STUD GAUGE, BRACKING AND DEFLECTION.
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- INSTALL GYPSUM WALL BOARD ON INTERIOR PARTITIONS WITH A MINIMUM 1/4" GAP BETWEEN THE GYPSUM WALL BOARD AND THE FINISHED FLOOR.

CONTROL JOINT NOTES

CONCRETE MASONRY UNIT:

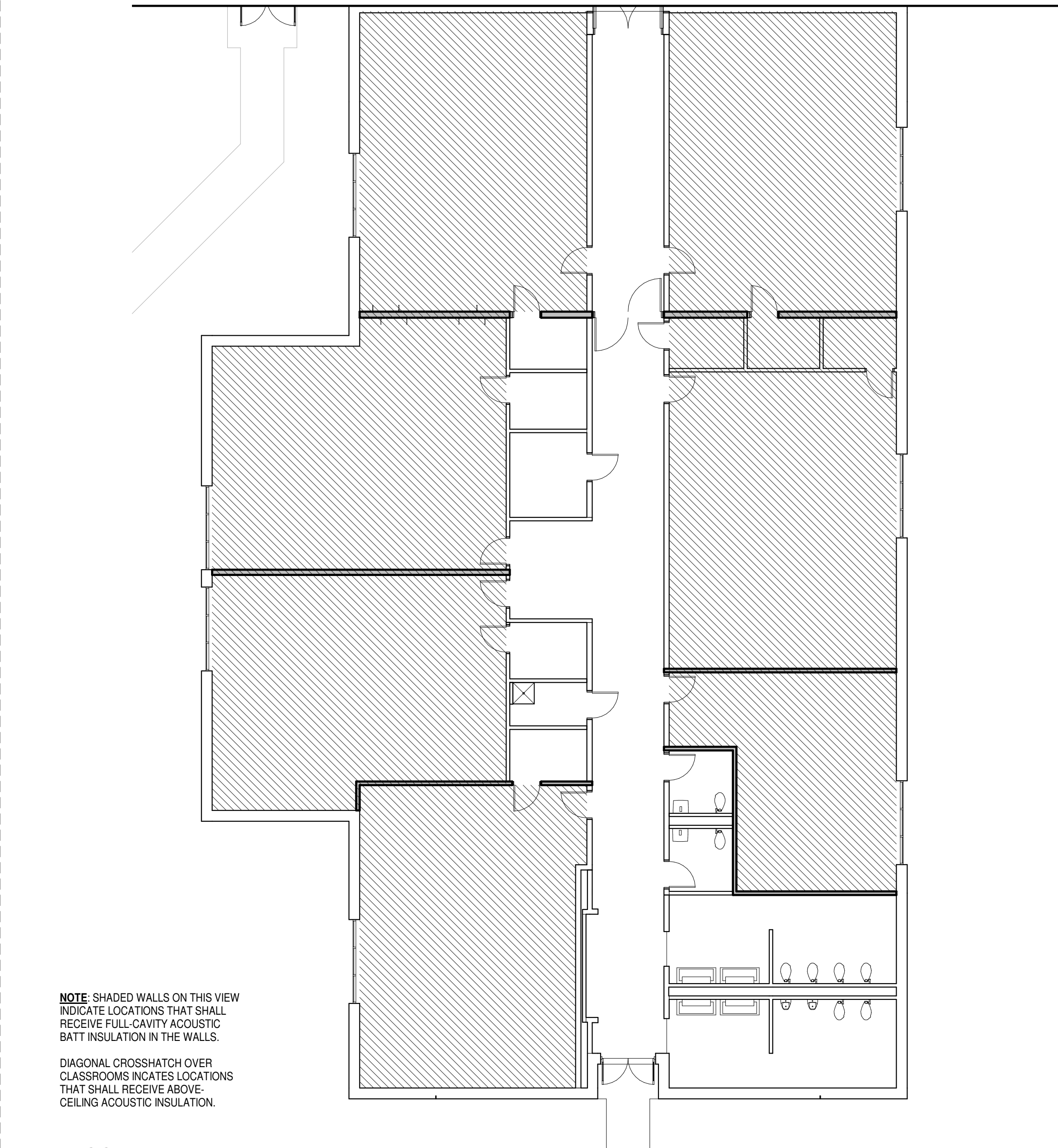
LOCATE CONTROL JOINTS AS FOLLOWS:

- ON ONE SIDE OF ALL WALL OPENINGS SMALLER THAN 6'-0" IN WIDTH (1'-4" FROM ROUGH OPENING)
- ON BOTH SIDES OF ALL WALL OPENINGS LARGER THAN 6'-0" IN WIDTH (1'-4" FROM ROUGH OPENING)
- SO THAT NO SINGLE LENGTH IS GREATER THAN 30'-0".
- NO CLOSER THAN 4'-0" AND NO FARTHER THAN 10'-0" FROM CORNERS.
- WHEREVER ABRUPT CHANGES IN WALL HEIGHTS OR THICKNESS OCCUR.
- ADDITIONAL LOCATIONS WHERE ADVISED BY MASONRY CONTRACTOR.

GYPSUM WALL BOARD:

LOCATE CONTROL JOISTS AS FOLLOWS:

- PROVIDE CONTROL JOINTS IN WIDTHS NO GREATER THAN 30'-0" OC, BUT NO LESS THAN 16'-0".
- INSTALL CONTROL JOINTS ACCORDING TO ASTM C 840 AND IN SPECIFIC LOCATIONS APPROVED BY ARCHITECT FOR VISUAL EFFECT.
- SUBMIT CONTROL JOINT LOCATION PLAN TO ARCHITECT FOR REVIEW PRIOR TO INSTALLATION.
- PROVIDE CONTROL JOINTS ABOVE DOOR JAMBS WHENEVER POSSIBLE.
- STAGGER JOINTS FOR ALL RATED WALLS WITH MULTIPLE LAYERS OF GYPSUM WALL BOARD.



NOTE SHADED WALLS ON THIS VIEW INDICATE LOCATIONS THAT SHALL RECEIVE FULL-CAVITY ACOUSTIC BATT INSULATION IN THE WALLS.

DIAGONAL CROSSHATCH OVER CLASSROOMS INDICATES LOCATIONS THAT SHALL RECEIVE ABOVE-CEILING ACOUSTIC INSULATION.

FLOOR PLAN

1" = 10'-0"

WALL TAG LEGEND

WALL VARIANT - ALPHABETICALLY SEQUENTIAL

WALL TYPE

- C - CHASE WALL
- E - SHAFT WALL
- M - MASONRY
- S - STEEL STUD
- W - WOOD STUD

MEMBER THICKNESS

FURRING	STEEL STUD	WOOD STUD	SHAFT WALL	MASONRY
L - LAMINATED	1 - 1 5/8" STUD	1 - 1 1/2" NAILED	2 - 2 1/2" CH STUD	4" CMU
0 - 7/8" HAT	2 - 2 1/2" STUD	3 - 2 x 4" STUD	4 - 4" CH STUD	6 - 6" CMU
1 - 1 1/2" HAT	3 - 3 5/8" STUD	6 - 2 x 6" STUD	6 - 6" CH STUD	8 - 8" CMU
	4 - 4" STUD	8 - 2 x 8" STUD		
	6 - 6" STUD			
	8 - 8" STUD			

WALL FRAMING PRIORITY

- PARTITIONS SHALL BE PRIORITIZED BASED ON FIRE AND SMOKE RATING.
- PARTITIONS SHALL BE CONSTRUCTED SUCH THAT HIGHER PRIORITY IS FRAMED BEFORE LOWER PRIORITY.
- LOWER PRIORITY PARTITIONS SHALL BE FRAMED TIGHT TO, BUT NOT INTERRUPT HIGHER PRIORITY CONSTRUCTION. (SEE THE EXAMPLE BELOW)

2 HOUR FIRE RATED WITH SMOKE BARRIER	PRIORITY 1 (HIGHEST)
2 HOUR FIRE RATED	PRIORITY 2
1 HOUR FIRE RATED WITH SMOKE BARRIER	PRIORITY 3
1 HOUR FIRE RATED	PRIORITY 4
NONE RATED	PRIORITY 5 (LOWEST)

SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
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100% CONSTRUCTION DOCUMENTS

12/20/2021

PRINCIPAL IN CHARGE: DLL

PROJECT ARCHITECT: DLL

DRAWN BY: AL, DC

SHEET TITLE:

PARTITION TYPES

SHEET NO.

PROJ. NO. 021952

A002

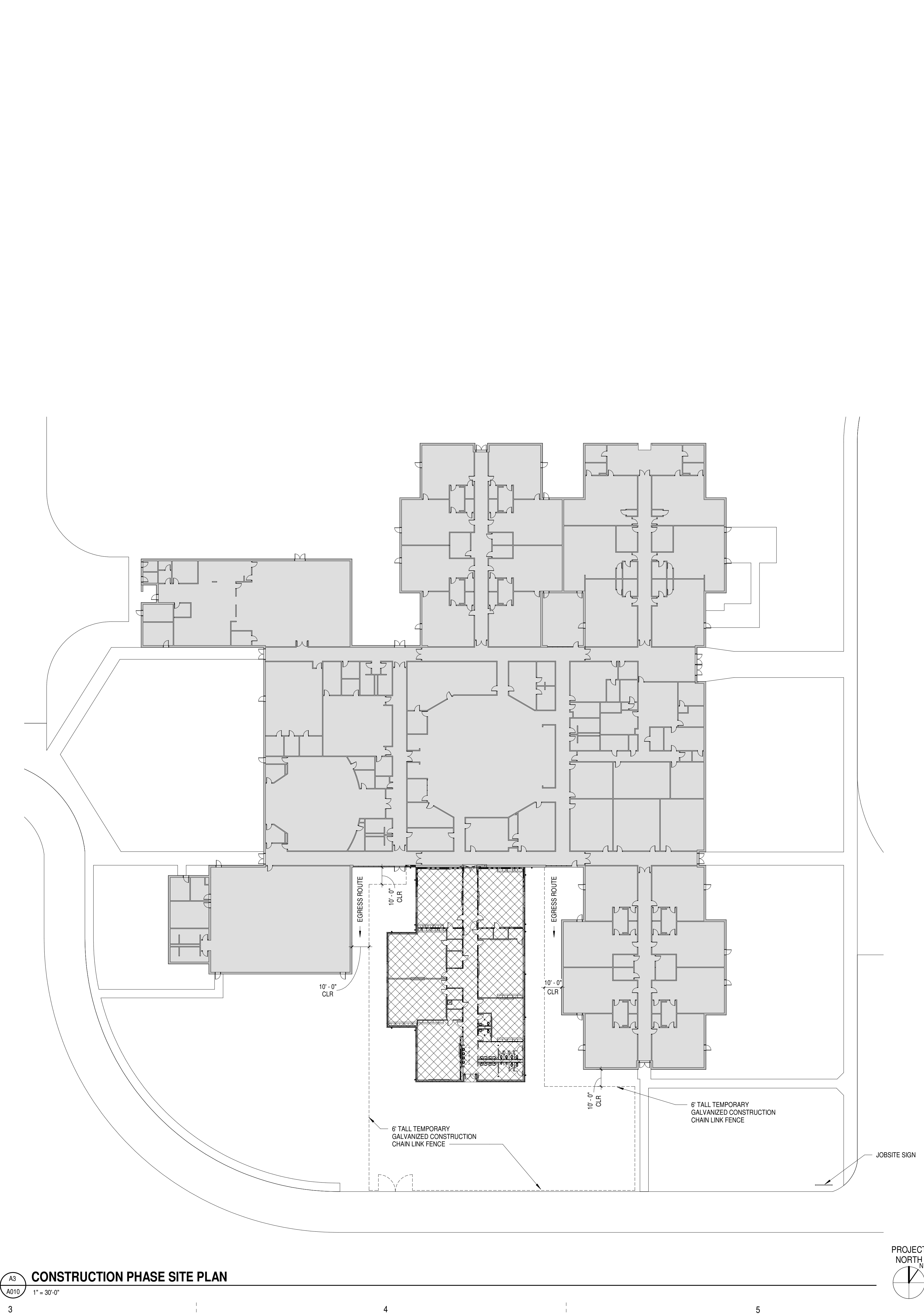
SPARTANBURG, SC

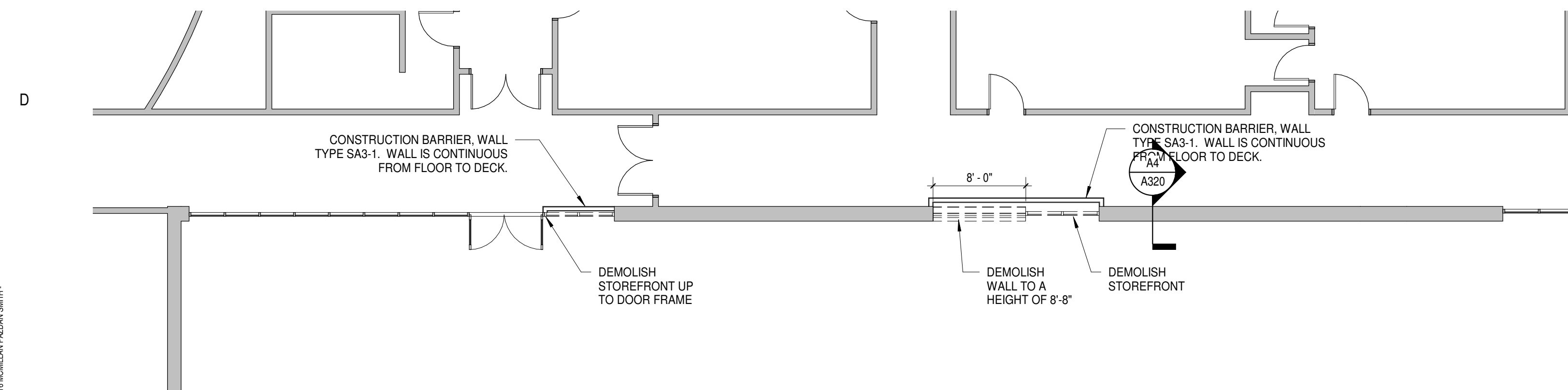
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021352

PROJECT
NORTH
N

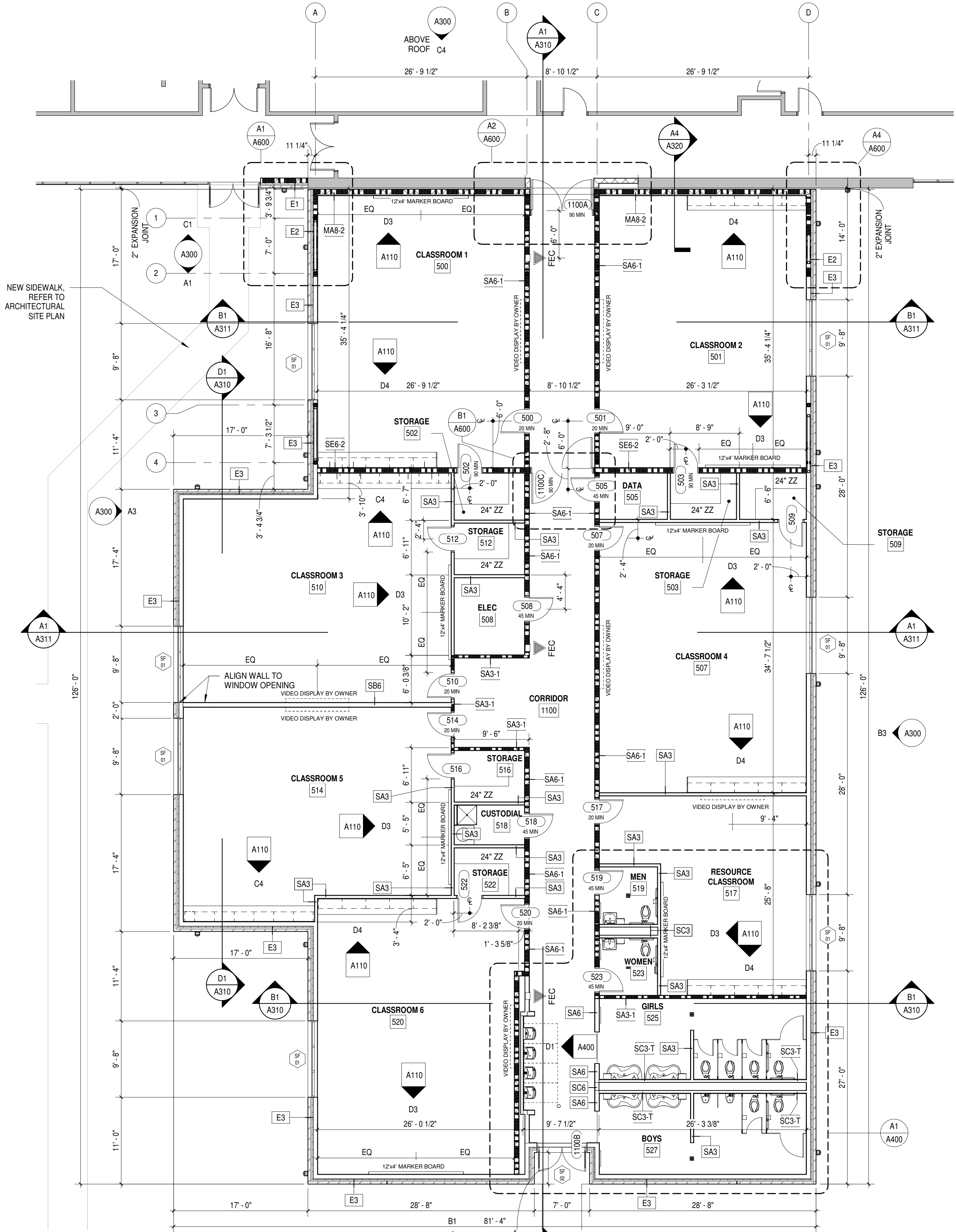
ARCHITECTURAL SITE PLAN

CONSTRUCTION PHASE SITE PLAN

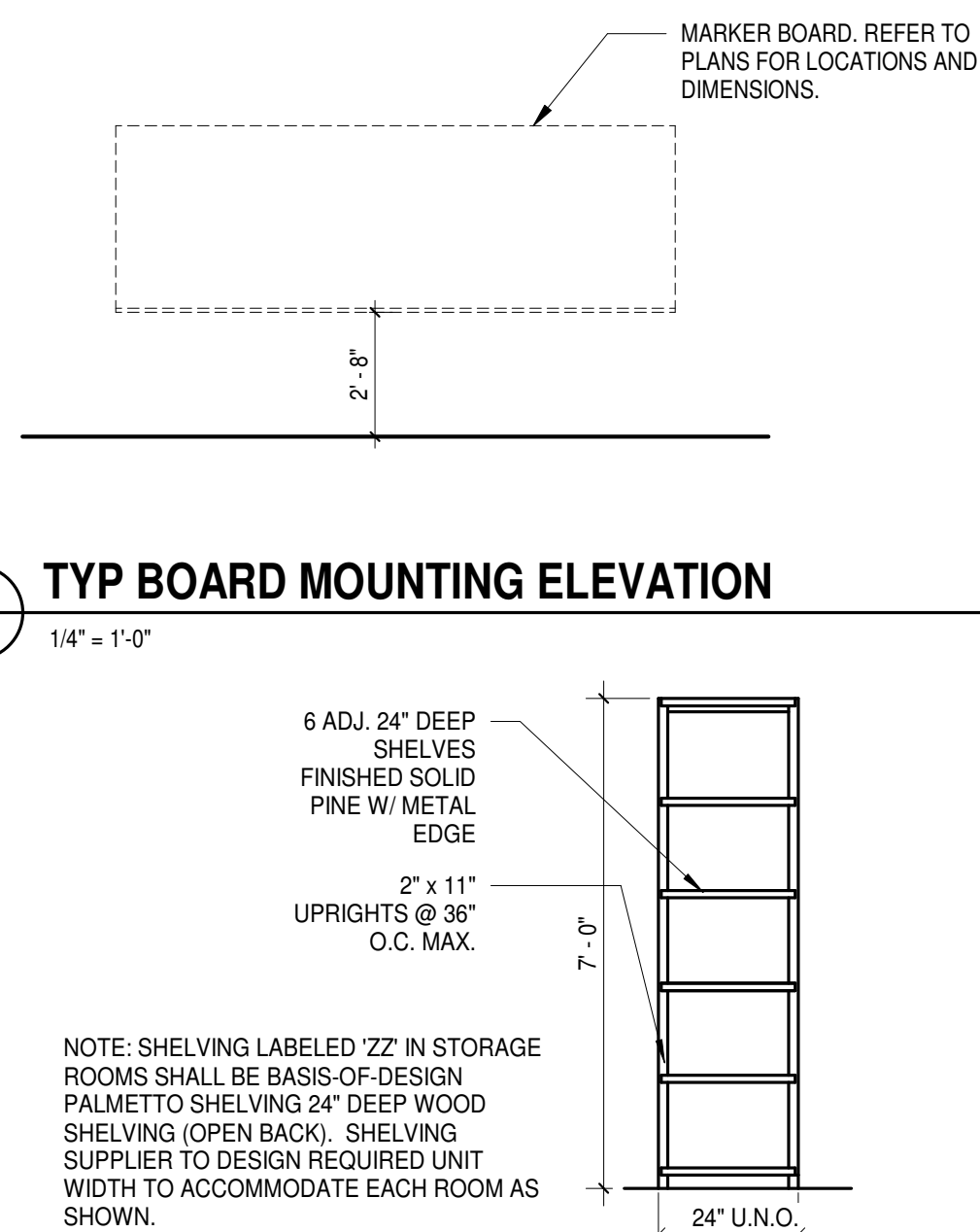




DEMOLITION PLAN



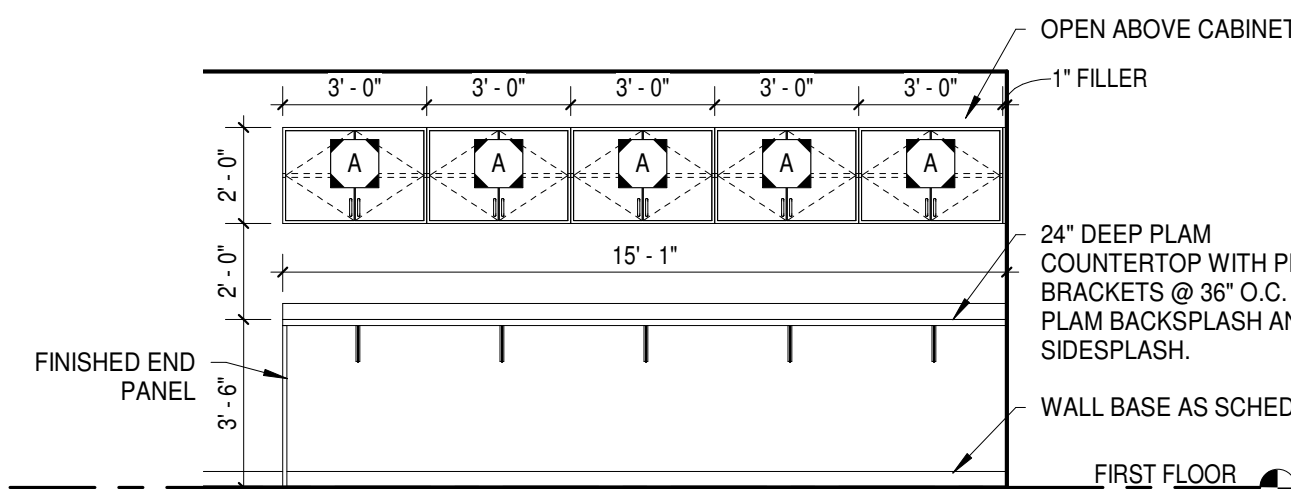
FLOOR PLAN



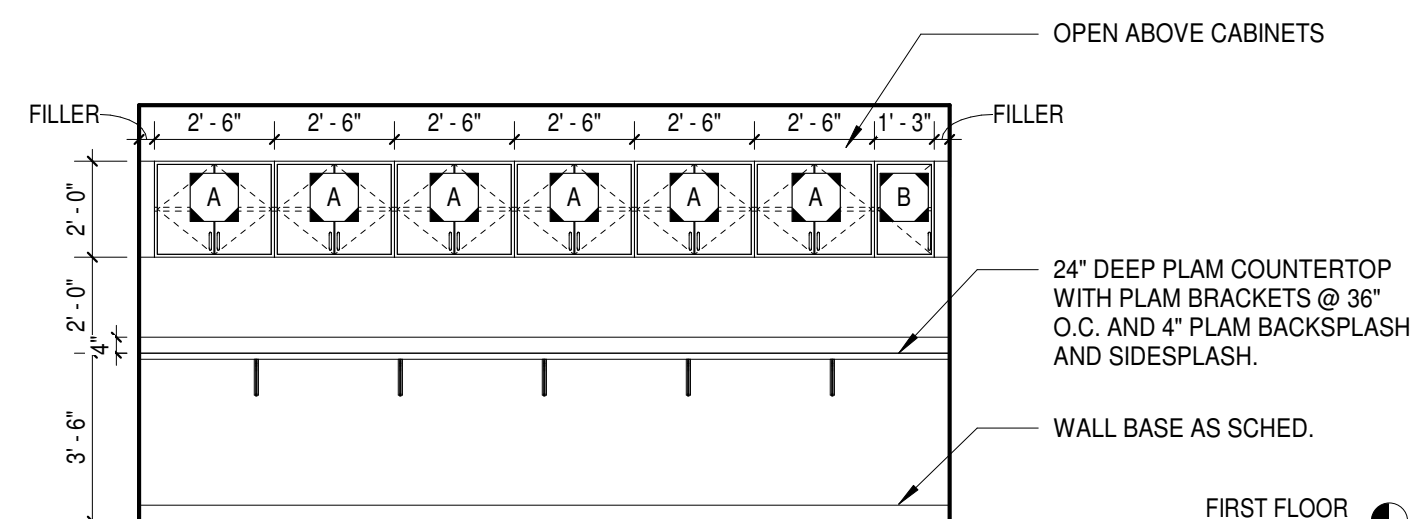
D3 TYP BOARD MOUNTING ELEVATION



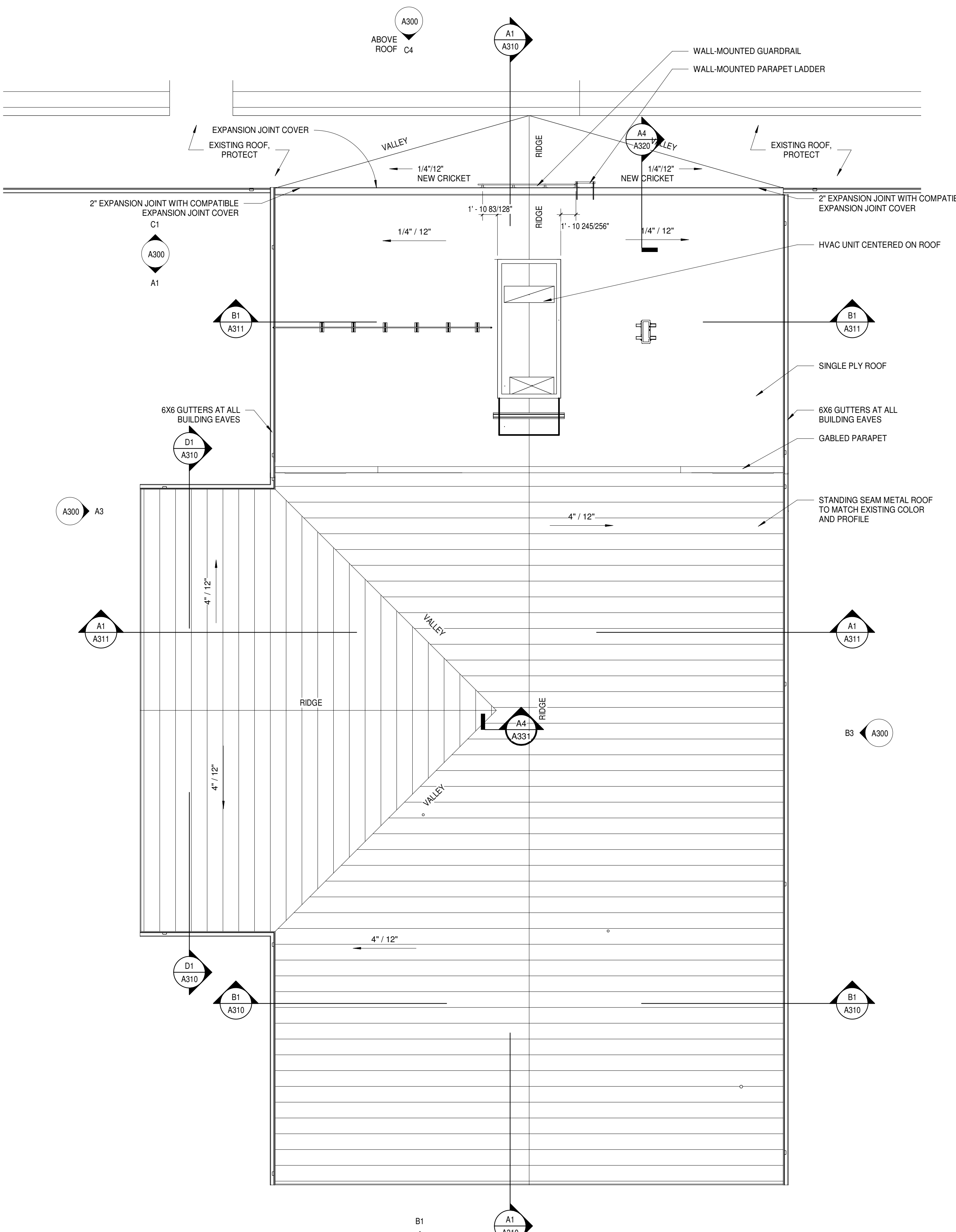
SHELVING DETAIL



D4 CASEWORK ELEVATION A



CASEWORK ELEVATION B



ROOF PLAN
1/8" = 1'-0"










DEMO PLAN GENERAL NOTES

1. GENERAL CONTRACTOR IS TO FIELD VERIFY EXISTING CONDITIONS AND DEMOLITION RESPONSIBILITIES ARE NOT NECESSARILY VERTICALLY TO THOSE SHOWN ON THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING CONSTRUCTION ITEMS THAT ARE NOT SPECIFIED IN THE FINISHED CONSTRUCTION PROJECT. REMOVE ALL ITEMS SPECIFICALLY INDICATED IN THE DEMOLITION SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND FACILITATE THE NEW CONSTRUCTION WORK. PERFORM DEMOLITION IN A NEAT AND ORDERLY MANNER TO MINIMIZE DISRUPTIONS. SALVAGEABLE ITEMS TO BE TURNED OVER TO SCHOOL DISTRICT.
2. REMOVE EXISTING CURB AND SLABS ARE REMOVED FOR THE INSTALLATION OF NEW MATERIALS AND/OR THE REMOVAL OF EXISTING MATERIALS. PATCH WITH INCOMPATIBLE SOIL TREATMENT OF DISTURBED AREAS. THICK CEMENT ASBESTOS ROCK REINFORCEMENT. MATCH EXISTING THICKNESS.
3. A MEETING SHALL BE HELD, PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK, WITH THE GENERAL CONTRACTOR, THE ARCHITECT, THE OWNER, AND THE GENERAL CONTRACTOR TO COORDINATE THE REMOVAL OF MATERIALS IN A MANNER THAT WILL AFFECT THE OWNERS ONGOING OPERATIONS THE LEAST.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF 72 HOURS PRIOR TO ANY DISRUPTION OF SERVICES, INCLUDING LIFE SAFETY SYSTEMS. EXISTING LIFE SAFETY SYSTEMS SHALL BE MAINTAINED THROUGHOUT THE PROJECT.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT EXISTING SURFACES AND FINISHES TO REMAIN IN THE AREAS OF WORK. REMOVE AND PATCH ALL DAMAGE TO EXISTING SURFACES. SUCH SURFACES SHALL BE PREPARED TO AN EXISTING CONDITION STATUS BY THE GENERAL CONTRACTOR.
6. THE REMOVAL OF MATERIALS, PERMITTER WALLS SHALL BE SMOOTH AND FLUSH. ANY PROTRUSIONS OR DEPRESSIONS NEED TO BE REMOVED OR FILLED IF IT IS IMPOSSIBLE, NOTIFY ARCHITECT IMMEDIATELY.
7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROGRESS OF THE WORK, MEANS OF EGRESS FROM THE FACILITY AS INDICATED ON THE LIFE SAFETY PHASING PLANS, CORRIDORS ARE NOT TO BE SUBSTANTIALLY REDUCED. EXIT SIGNS, ALARM PULL STATIONS, ETC. ARE NOT TO BE BLOCKED FROM VIEW.

FLOOR PLAN GENERAL NOTES

1. REFER TO PARTITION TYPES SHEET FOR WALL CONSTRUCTION.
2. GS SHALL COORDINATE ALL SITE ACCESS, DELIVERIES, ETC. WITH THE SCHOOL.
3. ALL CONSTRUCTION ACTIVITIES SHALL NOT INTERRUPT ACCESS TO THE SCHOOL.
4. ALL EXTERIOR WALLS SHALL BE FINISHED WITH 1/2" Gypsum Board.
5. DIMENSIONS SHOWN FOR EXTERIOR DOORS AND WINDOWS ARE TO EDGE OF FRAME U.N.O.
6. NOT TO SCALE. THE DRAWINGS, IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH THE WORK.
7. PROVIDE WOOD BLOCKING FOR ALL WALL-MOUNTED ITEMS AND TOILET ACCESSORIES WHERE SHOWN.
8. CENTER VIDEO DISPLAYS AND MARKER BOARDS ON HOST WALL UNLESS NOTED OTHERWISE. COORDINATE ELECTRICAL MOUNTING HEIGHTS WITH OWNER'S REPRESENTATIVE.
9. PROVIDE PLASTIC CORNER GUARDS AT ALL INTERIOR EXPOSED WALL CORNERS ON STUD/WG WALLS.
10. REFER TO EXTERIOR ELEVATIONS FOR DOWNSPOUT LOCATIONS.
11. FLOOR ELEVATION OF NEW WING SHALL BE THE SAME AS THE FLOOR ELEVATION OF THE EXISTING BUILDING WHERE THEY CONNECT.

FLOOR PLAN LEGEND

ROOM NAME	ROOM TAG
 00999	
 A	WINDOW TYPE - SEE SHEET A800
 MAS	WALL TYPE - SEE PARTITION TYPES ON SHEET A002
 122A	DOOR NUMBER - SEE DOOR SCHEDULE SHEET A800
 REC	
	FIRE EXTINGUISHER CABINET W/ FIRE EXTINGUISHER
	ZZ SHELVING - SEE B3/A110
	1 HR FIRE RATING
	2 HR FIRE RATING

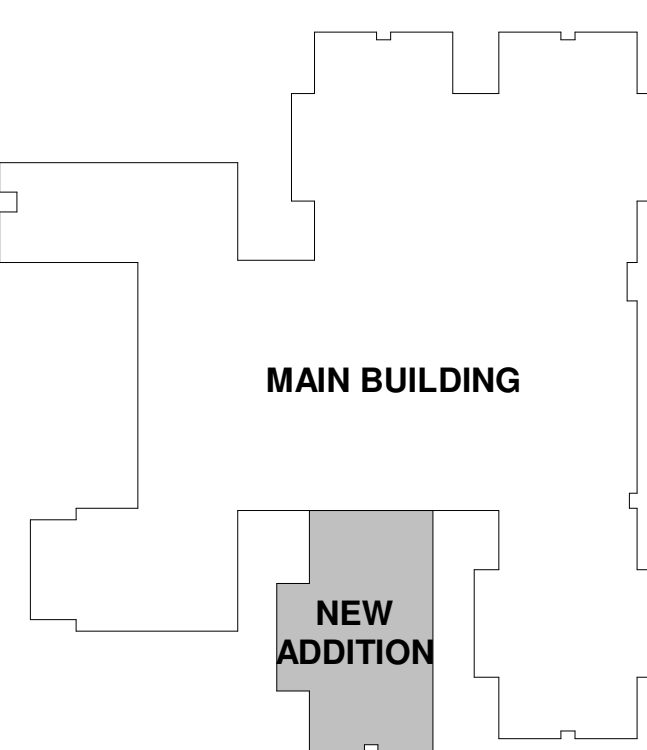
CASEWORK LEGEND

TYPE	DESCRIPTION
A	WALL CABINET W/ TWO HINGED DOORS, TWO ADJUSTABLE SHELVES; (WIDTH SHOWN) x 15"D x (HEIGHT SHOWN)
B	WALL CABINET W/ ONE HINGED DOOR, TWO ADJUSTABLE SHELVES; (WIDTH SHOWN) x 15"D x (HEIGHT SHOWN)

ROOF GENERAL NOTES

1. METAL ROOF AND ACCESSORIES SHALL BE CUSTOM MATCHED TO THE COLOR OF THE EXISTING ROOF.
2. MODIFICATIONS TO THE EXISTING ROOF SHALL BE MADE COMPATIBLE WITH THE EXISTING ROOF MATERIAL.
3. REFER TO ROOF CONSULTANT'S DRAWINGS FOR ROOF ASSEMBLIES, WALK-OFF MAT LOCATIONS, AND DETAILING.

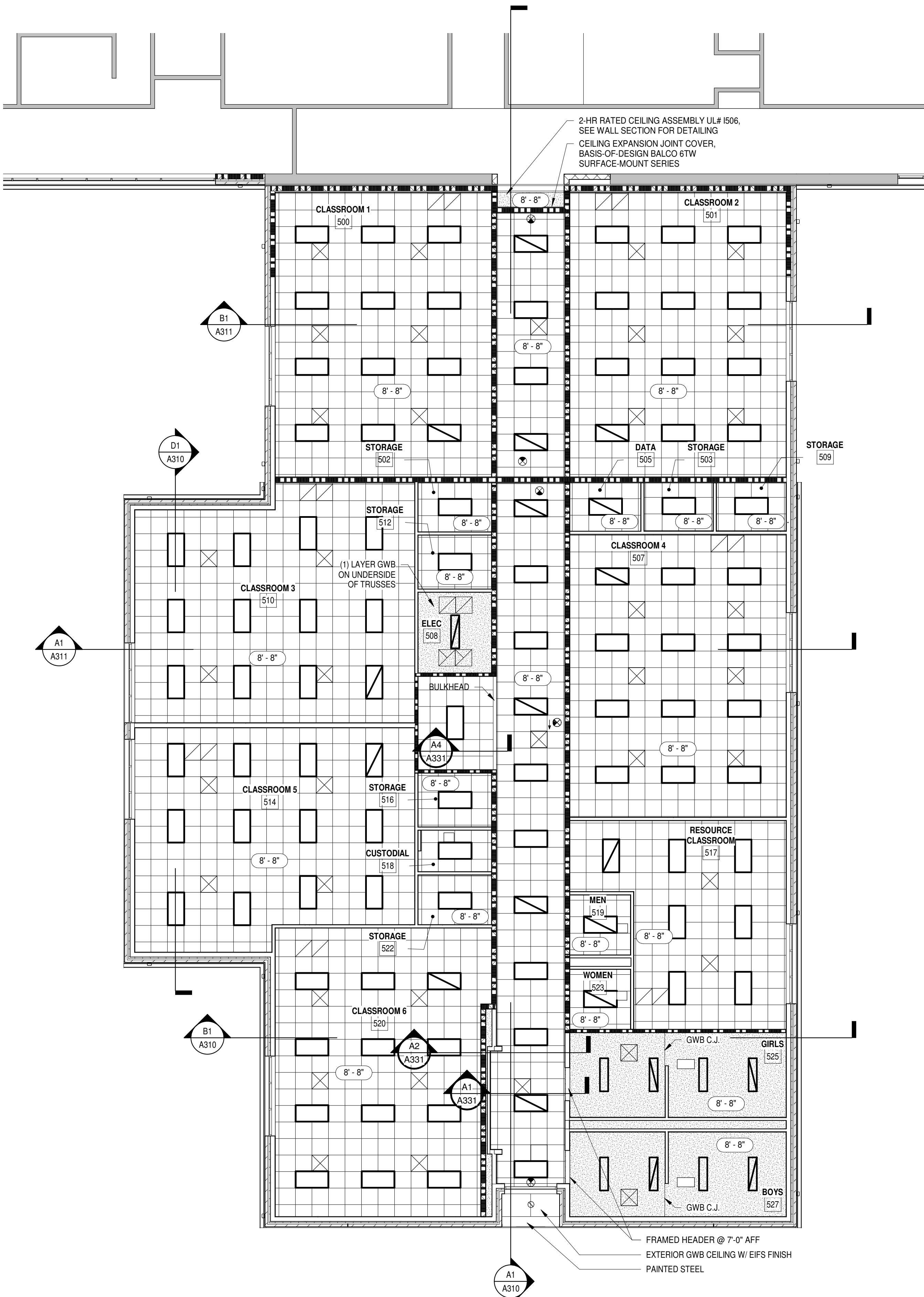
KEY PLAN



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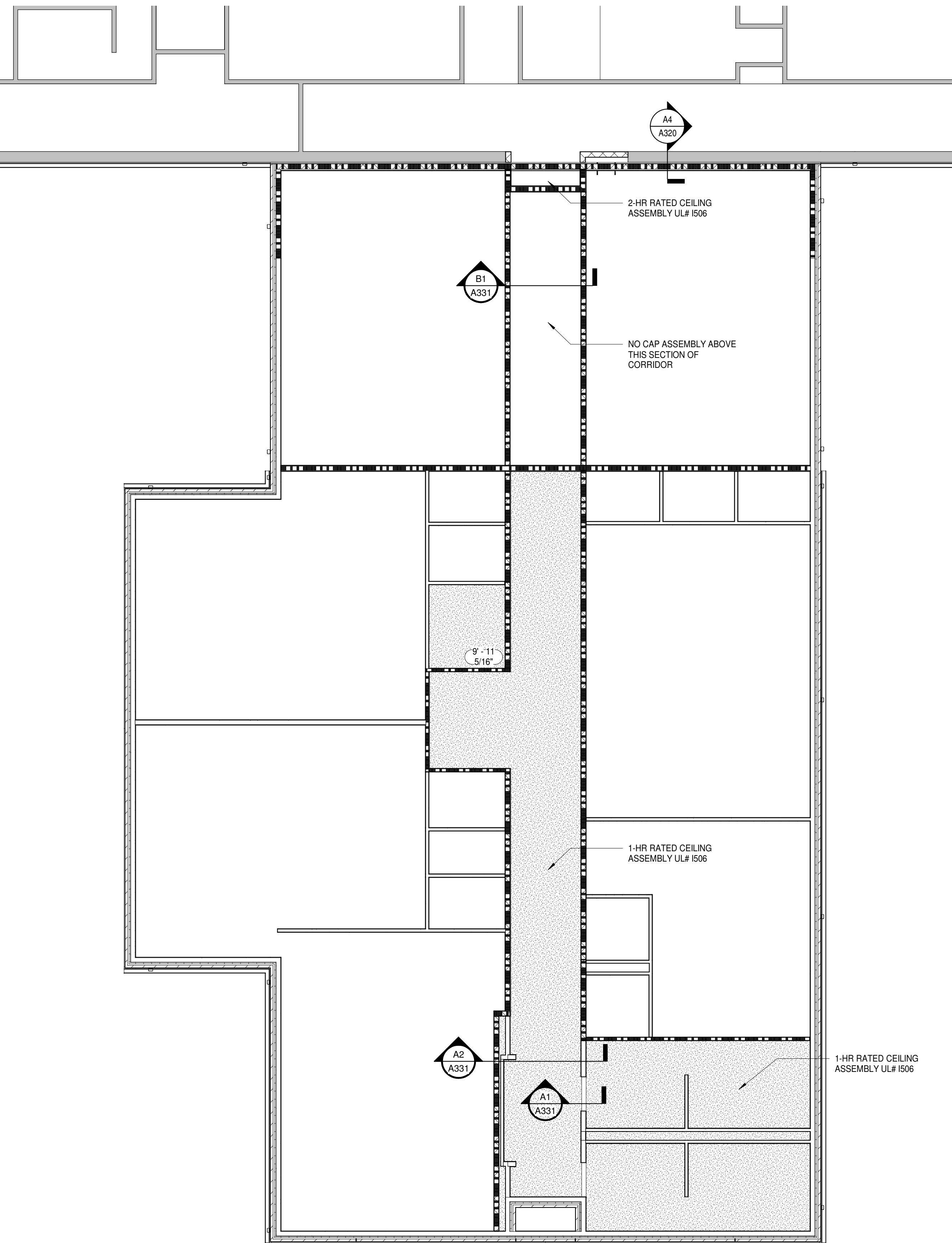
A1
A210



REFLECTED CEILING PLAN

A3
A210

FIRE RATED REFLECTED CEILING PLAN



NOTE: THIS VIEW SHOWS THE RATED CORRIDOR "CAP" ABOVE THE SUSPENDED ACOUSTICAL CEILING ON A1/A210

RCP GENERAL NOTES

- ALL CEILINGS MUST BE SEISMICALLY BRACED AND INSTALLED PER PROJECT SPECIFICATIONS AND CISCA RECOMMENDATIONS. THIS PROJECT IS IN SEISMIC DESIGN CATEGORY "C". CONTRACTOR TO ASSUME CEILING SYSTEM WEIGHT EXCEEDS 2.5 LBS/FT².
- ALL LIGHT FIXTURES, MECHANICAL DEVICES AND SPEAKERS IN CEILING SYSTEM MUST BE INSTALLED PER PROJECT MANUAL AND CISCA RECOMMENDATIONS. GC SHALL COORDINATE CEILING SYSTEM INSTALLATION W/ PUBLISHED OSF APPROVED GUIDELINES.
- ALL CEILING-MOUNTED DEVICES SUCH AS OCCUPANCY SENSORS, WIFI PORTS, FIRE ALARM DEVICES ETC. SHALL BE CENTERED IN THE CEILING GRID TILE THAT THEY ARE HOSTED ON.
- DO NOT SCALE THE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH THE WORK.
- OTHER DISPLINES ARE SHOWN FOR COORDINATION PURPOSES ONLY. SEE EACH DISCIPLINE'S RESPECTIVE SHEETS FOR ELEMENTS NOT SHOWN ON THE ARCHITECTURAL RCP.

RCP LEGEND

ROOM TAG:

A101 → ROOM NUMBER

CEILING TAG:

10'-0" → CEILING SYSTEM (SEE ABBREV. LEGEND)

CEILING HEIGHT (ABOVE FINISHED FLOOR)

1 HR FIRE RATED PARTITION
2 HR FIRE RATED BARRIER

REF RATED PARTITION NOTES
AND REQUIREMENTS ON GENERAL SHEETS A003, G010, G112, G112

ABBREVIATION LEGEND:

ACT ACOUSTIC TILE CEILING

CEILING HATCH PATTERNS / SYMBOLS:

CEILING EXPOSED TO STRUCTURE ABOVE. PAINTED UNLESS NOTED OTHERWISE

2' x 2' ACOUSTICAL TILE CEILING

GYPSUM BOARD CEILING

SEE ELECTRICAL

EXIT SIGN - WALL MOUNTED (DIRECTIONAL ARROWS WHERE INDICATED)

EXIT SIGN - CEILING MOUNTED (DIRECTIONAL ARROWS WHERE INDICATED)

2x4 LAY-IN LIGHT FIXTURE

2x4 LAY-IN EMERGENCY LIGHT FIXTURE

2x2 LAY-IN LIGHT FIXTURE

2x2 LAY-IN EMERGENCY LIGHT FIXTURE

RECESSED DOWNLIGHT

SEE MECHANICAL

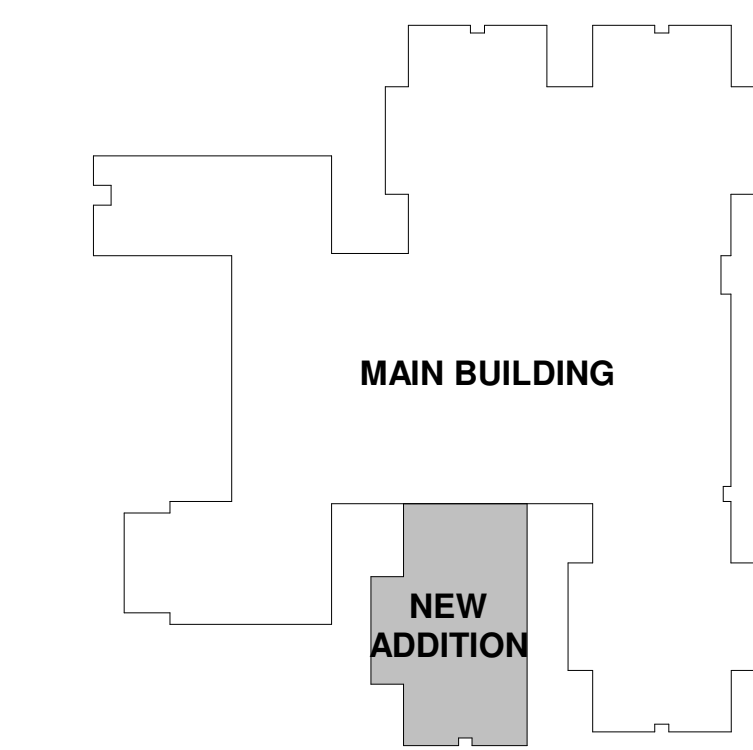
ROUND SUPPLY DIFFUSER

2 x 2 SUPPLY DIFFUSER

2 x 2 RETURN DIFFUSER

EXHAUST FAN

KEY PLAN



SPARTANBURG COUNTY SCHOOL DISTRICT THREE CANNONS ELEMENTARY SCHOOL CLASSROOM ADDITION AND INTERIOR RENOVATION

SPARTANBURG, SC

SHEET ISSUE:
NO. DATE DESCRIPTION BY

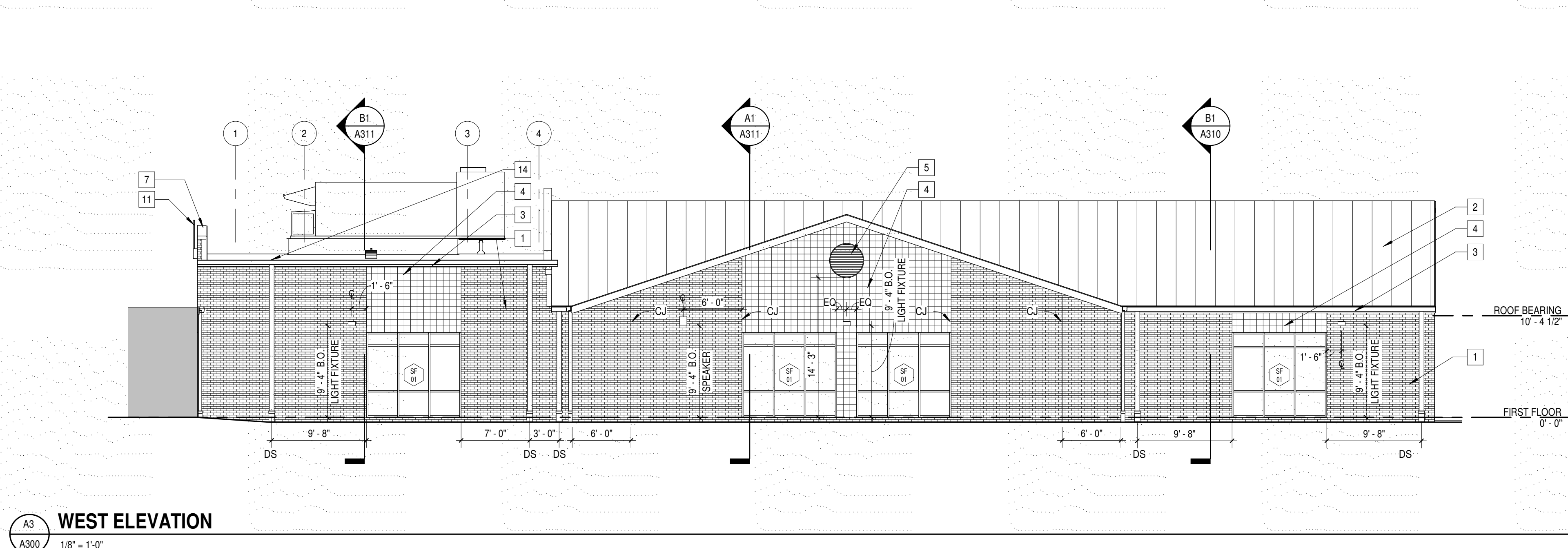
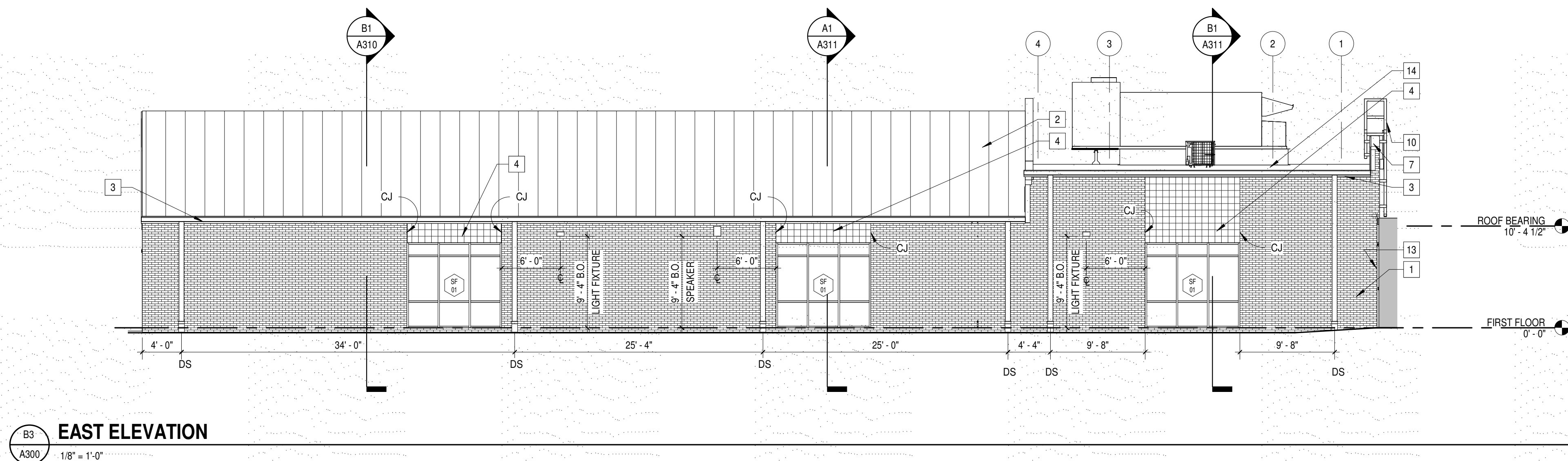
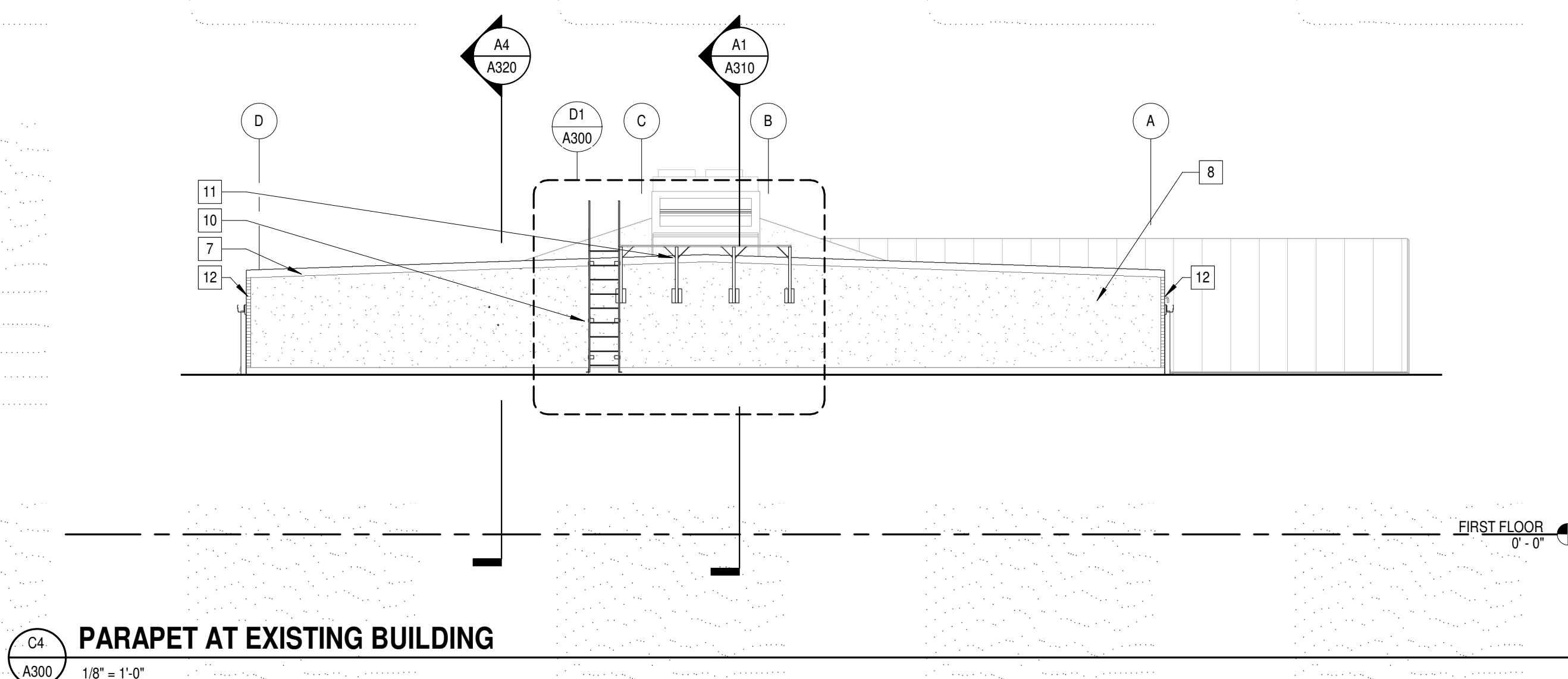
100% CONSTRUCTION DOCUMENTS
PRINCIPAL IN CHARGE: DUL
PROJECT ARCHITECT: DUL
DRAWN BY: AL, DC

SHEET TITLE:
REFLECTED
CEILING PLAN

SHEET NO. PROJ. NO.
021352

A210

KEYNOTE	DESCRIPTION
1	BRICK VENEER TO MATCH EXISTING
2	STANDING SEAM METAL ROOF TO MATCH EXISTING ROOF
3	6/6" METAL GUTTER COLOR TO COLOR EXISTING
4	METAL ROOF VENEER TO MATCH EXISTING
5	42" DIA. METAL LOUVER COLOR TO MATCH EXISTING. LOUVER IS NOT VENTILATED. PROVIDE BLANK-OF PANEL BEHIND LOUVER FLUSH.
6	42" DIA. METAL LOUVER COLOR TO MATCH EXISTING. LOUVER IS MECHANICALLY FUNCTIONAL.
7	FIRE WALL PARAPET WITH PREFINISHED MTL. PARAPET CAP
8	E/F5 FINISH. COLOR BY ARCHITECT
9	METAL COPING CAP. COLOR BY ARCHITECT
10	WALL MOUNTED METAL ROOF LADDER WITH STEP-OVER PARAPET PLATFORM AND RAIL. BASIS OF DESIGN IS KITTILING R/L2. INSTALL PER MANUFACTURER'S REQUIREMENTS. CONTRACTOR SHALL VERIFY DIMENSIONS OF NEW PARAPET VERSUS EXISTING ROOF PRIOR TO ORDERING PRODUCT.
11	WALL MOUNTED METAL GUARDRAIL. BASIS OF DESIGN IS KITTILING R33 WITH POB R/L1. INSTALL PER MANUFACTURER'S REQUIREMENTS.
12	RUN R/CB TO FACE OF E/5
13	CONTINUOUS EXTERIOR WALL EXPANSION JOINT COVER. BASIS OF DESIGN IS B/4. WALL EXPANSION WALL CORNER JOINT COVER.
14	SINGLE PLY ROOF
15	CORRUGATED METAL PARAPET PANNELLING. COLOR BY ARCHITECT



SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL
CLASSROOM ADDITION AND
INTERIOR RENOVATION

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

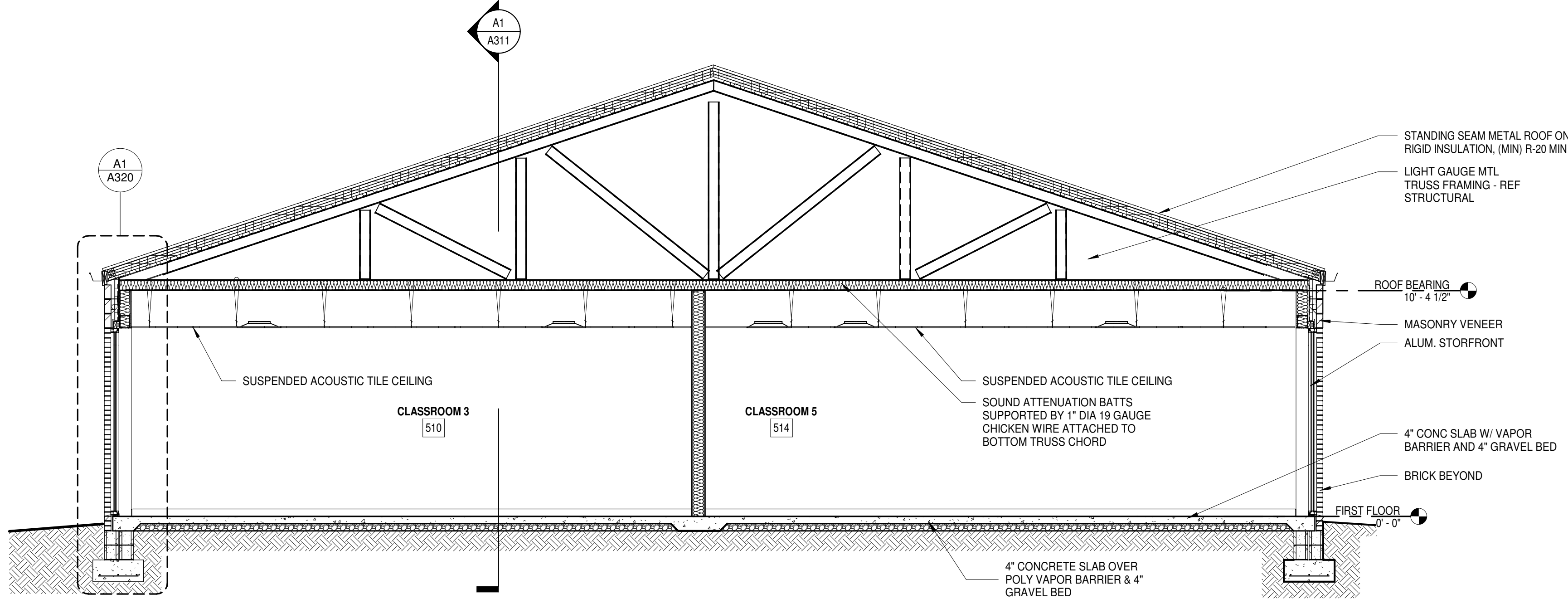
100% CONSTRUCTION 12/20/2022
DOCUMENTS
PRINCIPAL IN CHARGE: D
PROJECT ARCHITECT: D
DRAWN BY: AL D

SHEET TITLE:
**BUILDING
ELEVATIONS**

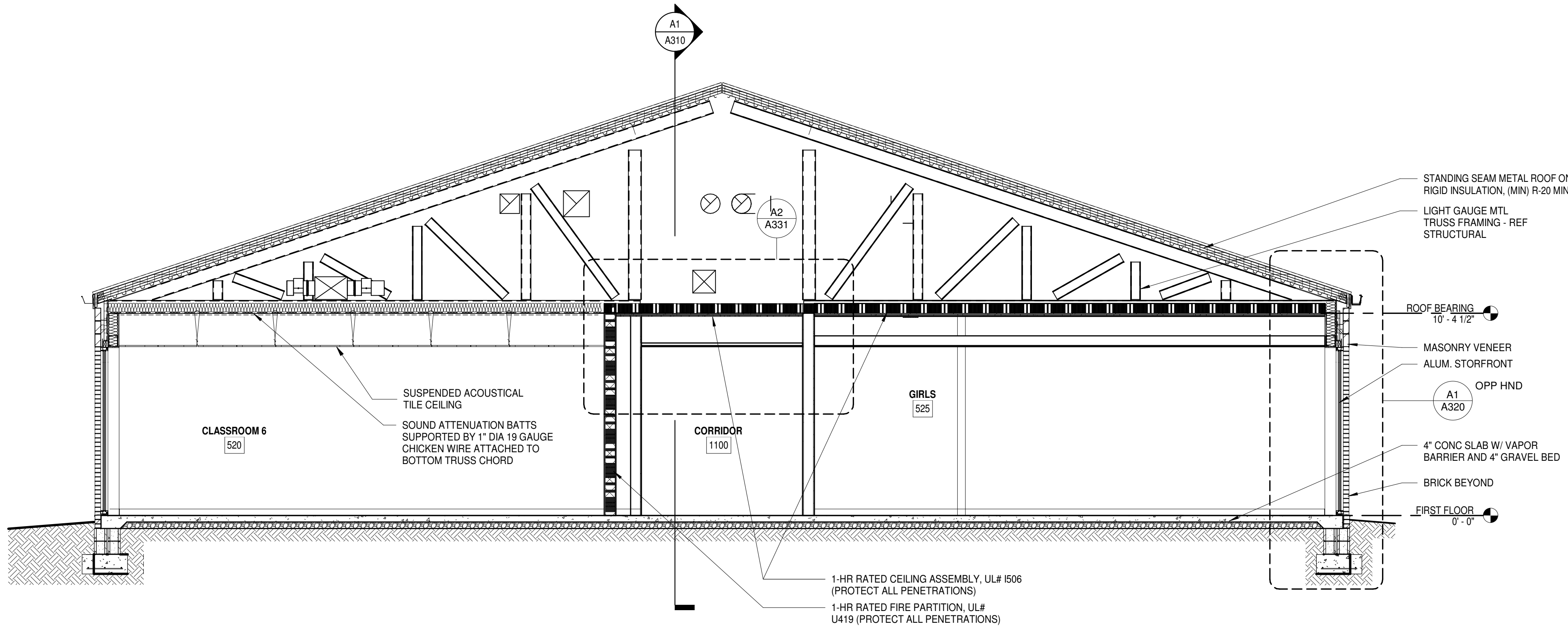
SHEET NO. PROJ. NO. 0213

A300

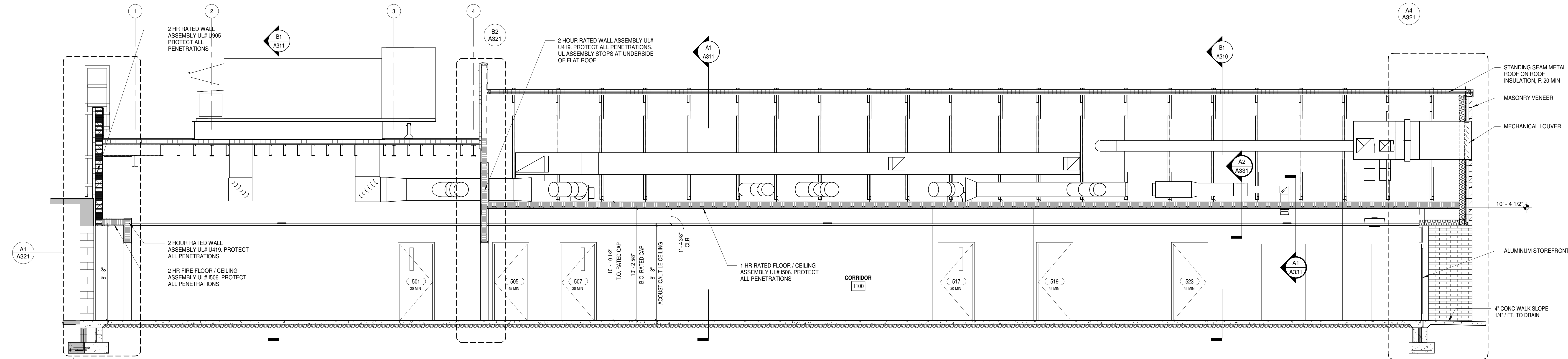
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D1 BUILDING SECTION C
A310 1/4" = 1'-0"



B1 BUILDING SECTION B
A310 1/4" = 1'-0"



A1 BUILDING SECTION A
A310 1/4" = 1'-0"

SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL
CLASSROOM ADDITION AND
INTERIOR RENOVATION

SPARTANBURG, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

100% CONSTRUCTION DOCUMENTS
PRINCIPAL IN CHARGE:
PROJECT ARCHITECT:
DRAWN BY:

12/20/2021
DUL
DUL
AL, DC

SHEET TITLE:
BUILDING SECTIONS

SHEET NO.
PROJ. NO. 021352

A310

SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL
CLASSROOM ADDITION AND
INTERIOR RENOVATION

SPARTANBURG, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

100% CONSTRUCTION
DOCUMENTS
PRINCIPAL IN CHARGE:
PROJECT ARCHITECT:
DRAWN BY:

12/20/2021
D.L.
D.L.
A.L. DC

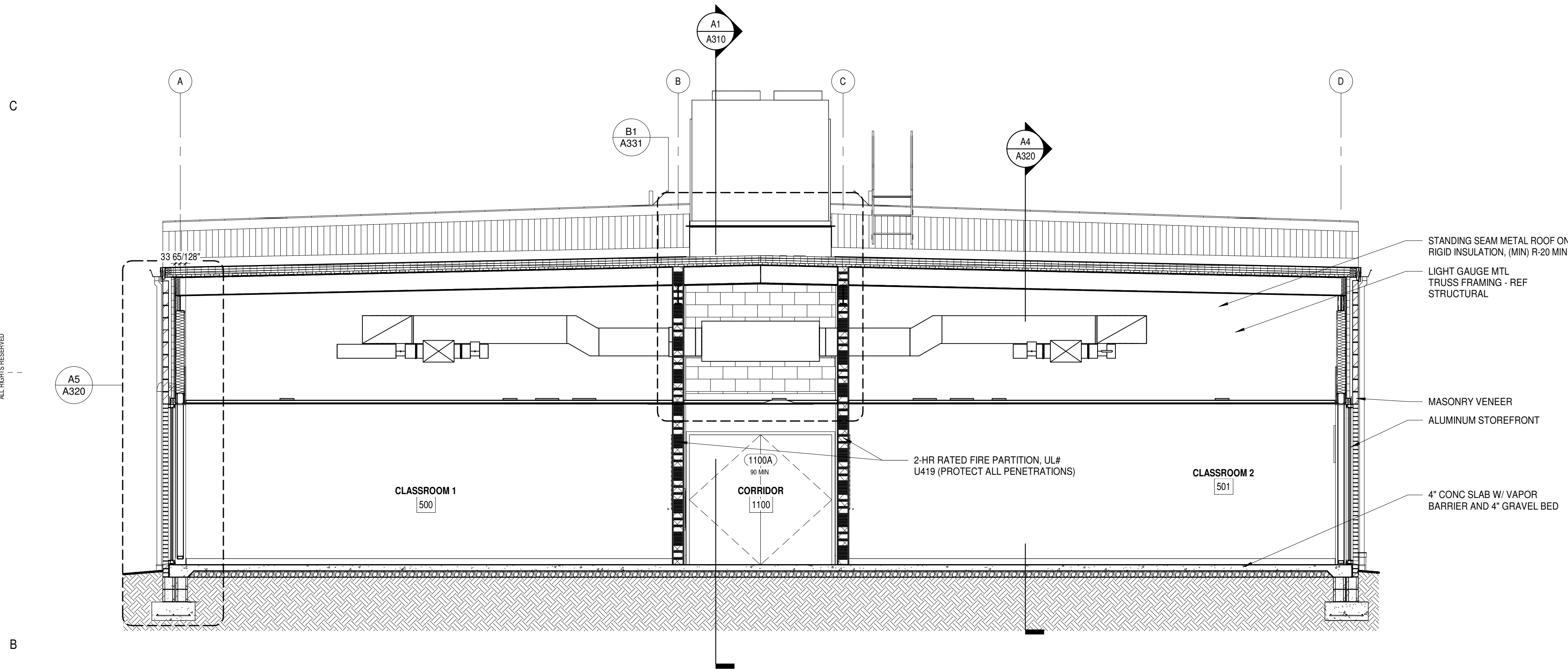
SHEET TITLE:
BUILDING
SECTIONS

SHEET NO. PROJ. NO.
021352

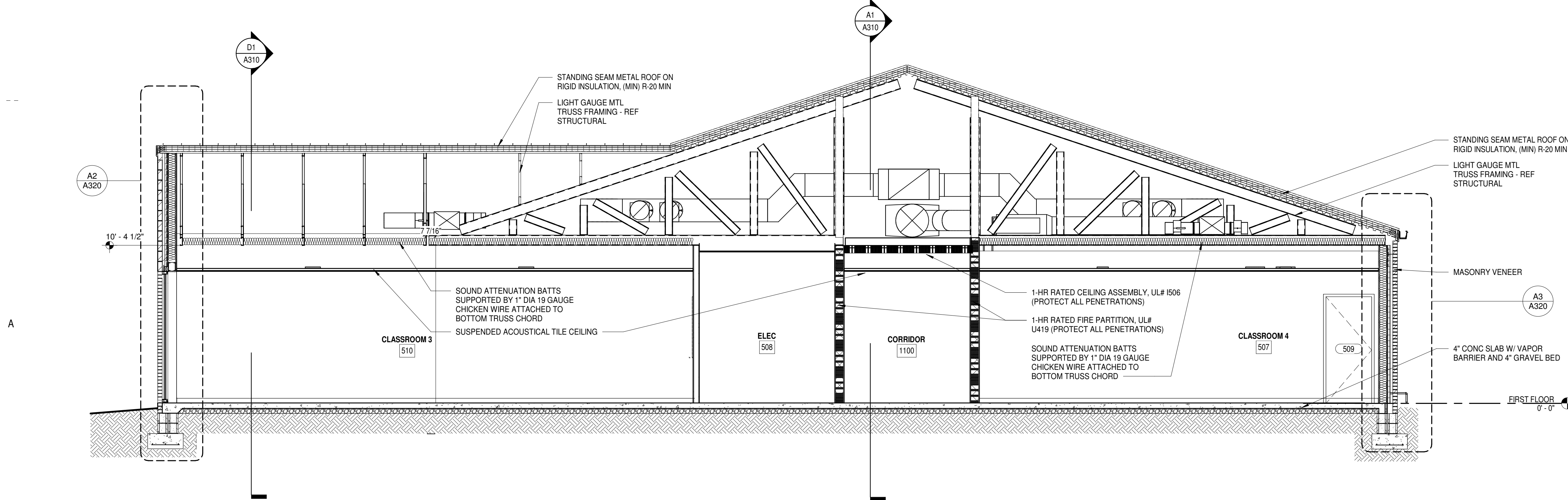


A311

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BUILDING SECTION E
1/4" = 1'-0"



BUILDING SECTION D
1/4" = 1'-0"

SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL
CLASSROOM ADDITION AND
INTERIOR RENOVATION

SPARTANBURG, SC

SHEET ISSUE:
NO. DATE DESCRIPTION BY

100% CONSTRUCTION DOCUMENTS
PRINCIPAL IN CHARGE: DUL
PROJECT ARCHITECT: DUL
DRAWN BY: AL, DC

SHEET TITLE:
WALL SECTIONS

SHEET NO. PROJ. NO. 021352

A320

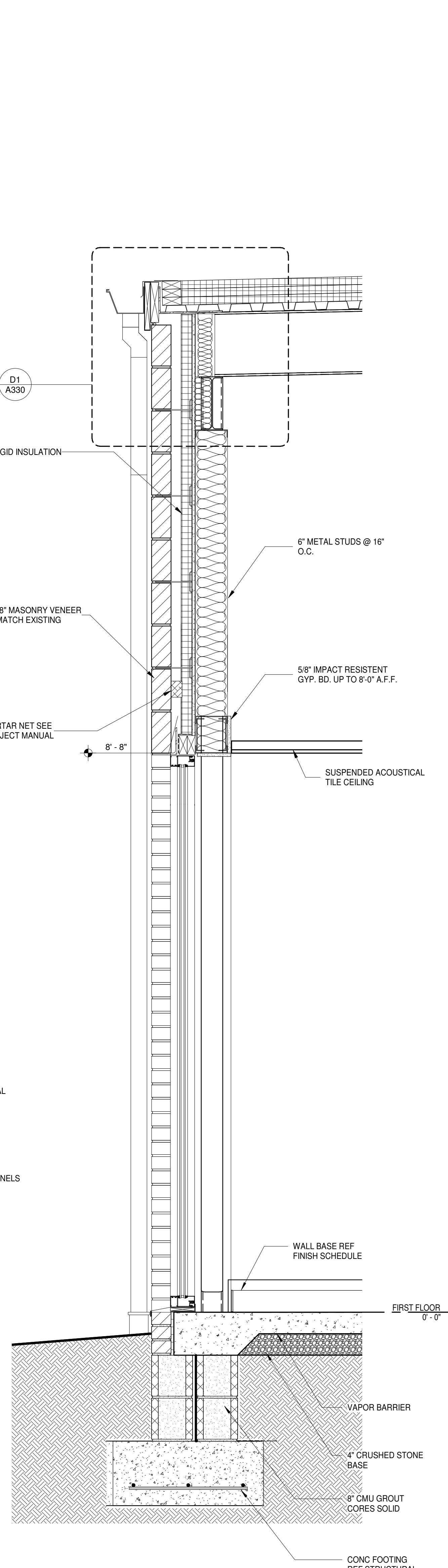
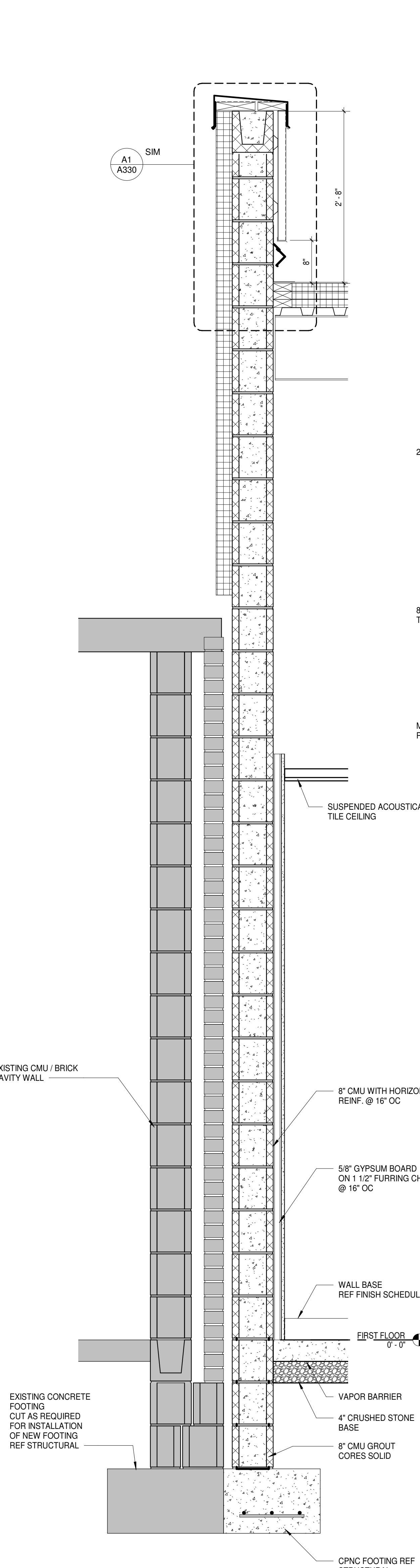
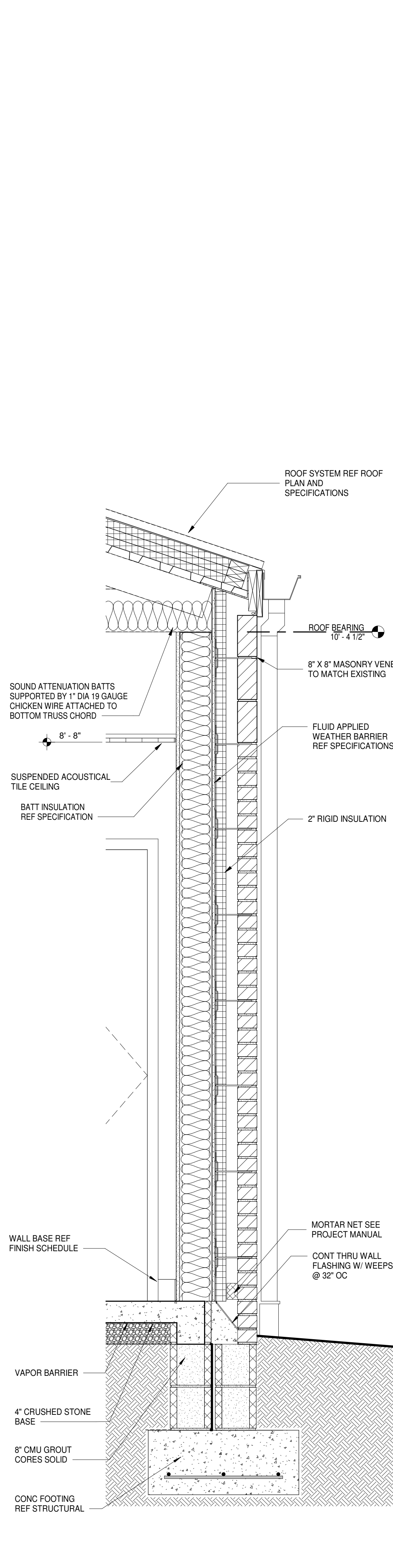
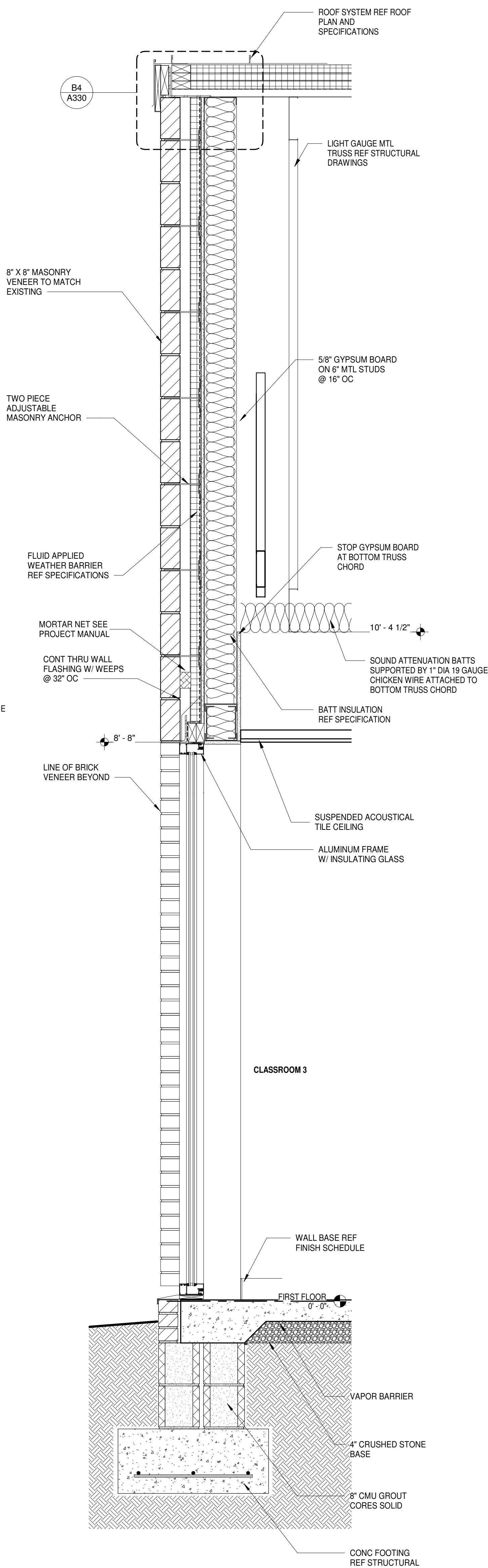
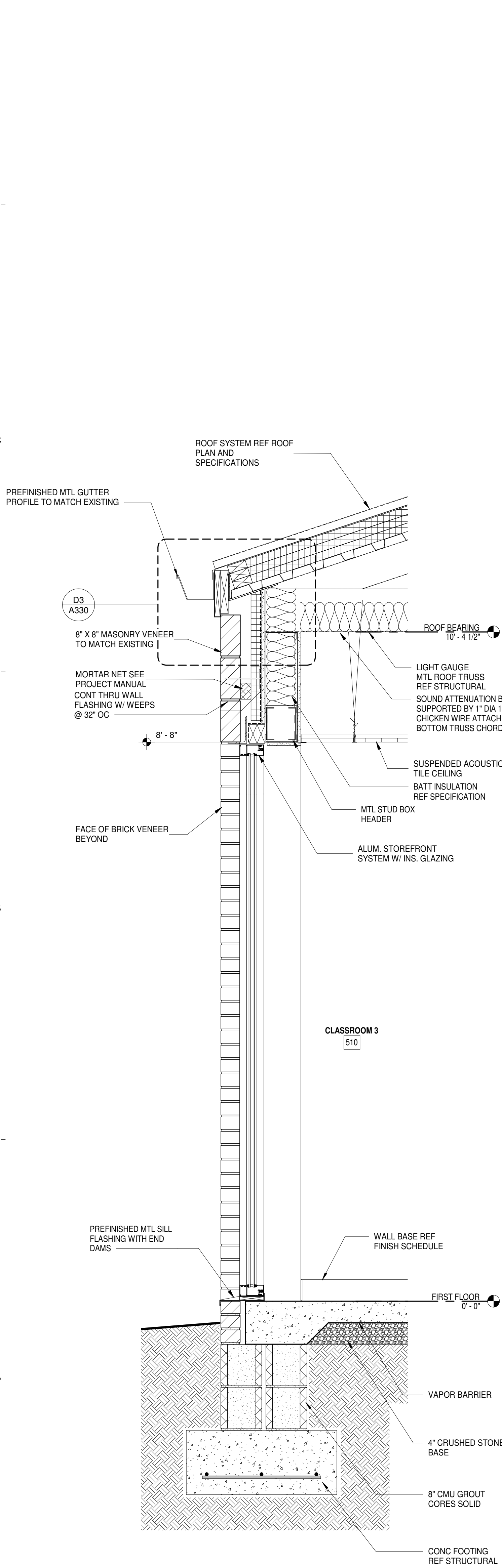
D

C

B

A

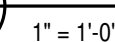
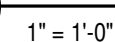
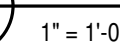
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SPARTANBURG, SC

SHEET NO. PROJ. NO.
02135

SHEET NO. PROJ. NO.
02135




SPARTANBURG, SC

100% CONSTRUCTION 12/20/2021
DOCUMENTS
PRINCIPAL IN CHARGE: DLL
PROJECT ARCHITECT: DLL
DRAWN BY: AL, DC

SHEET NO. PROJ. NO.
021352

PROJECT
NORTH
N

A circular compass rose with a vertical line pointing up labeled 'N' and a line pointing up and to the right labeled 'PROJECT NORTH'.

2/21/2021 8:44:09 AM BIM 360://021352.02_Curves ES Classroom Wing Addition 021352 - SCS03 - Curves ES Addition - Architectural
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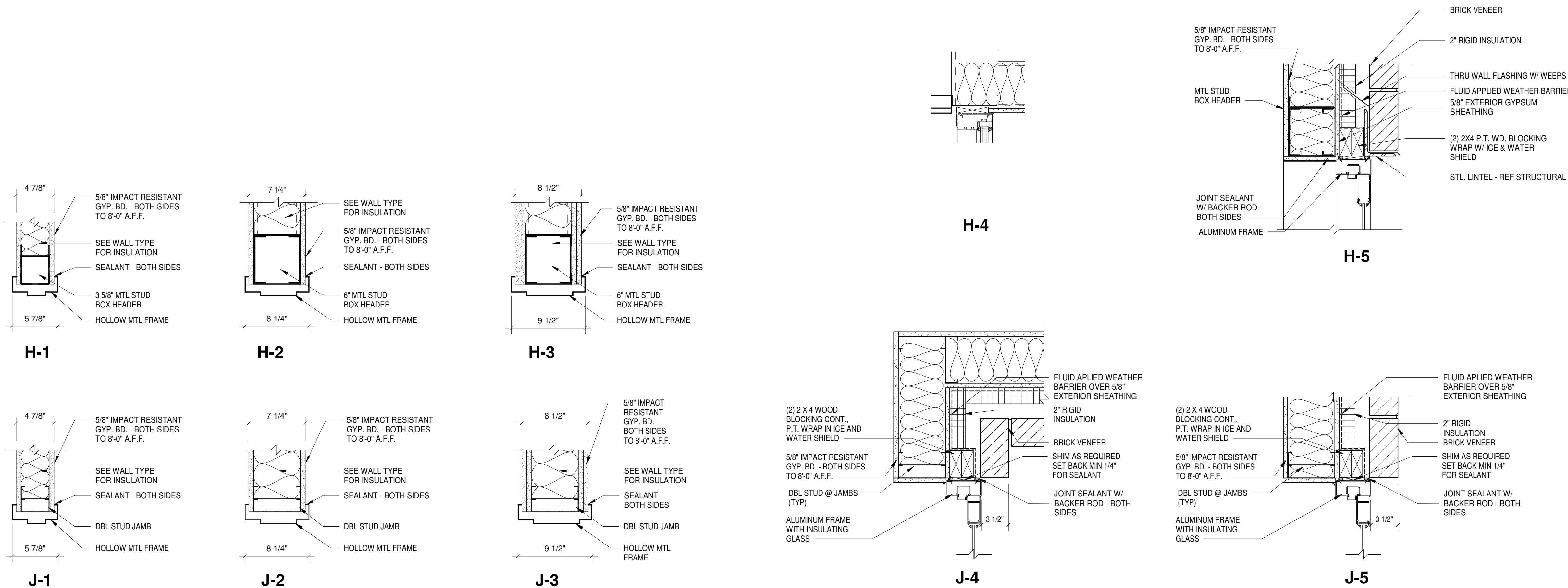
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021352

1521-12021-1544-23 AM
BM 350.101.352.00, Curran's ESQ Classroom Project And Noted 135 - 82031 - Curran's ESQ Project - Architectural
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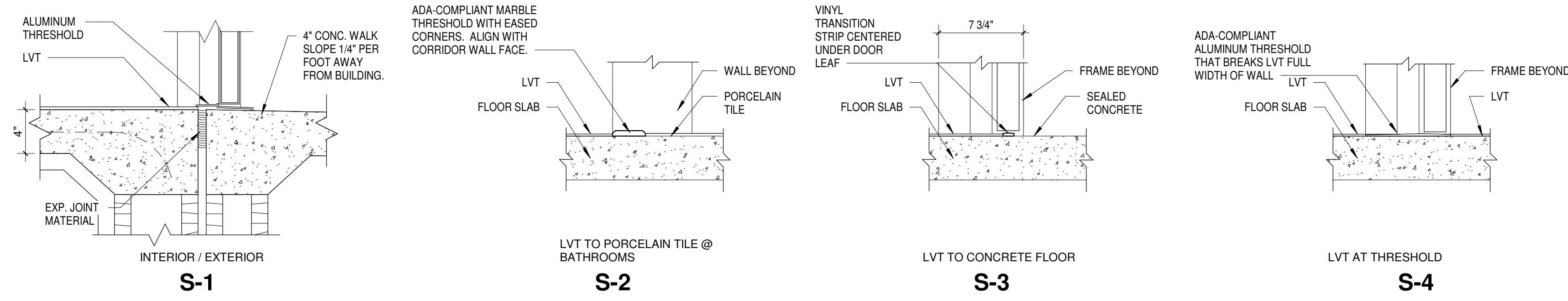
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DOOR SCHEDULE												
DOOR NUMBER	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	DOOR SILL	DOOR JAMB	DOOR HEAD		RATING
500	3'-0"	7'-0"	0'-1.34"	4	WD	A	HM	CONT. FLOORING	J2	H2		20-MINUTE FIRE RATED
501	3'-0"	7'-0"	0'-1.34"	4	WD	A	HM	CONT. FLOORING	J2	H2		20-MINUTE FIRE RATED
502	3'-0"	7'-0"	0'-1.34"	1	WD	A	HM	CONT. FLOORING	J3	H3		90-MINUTE FIRE RATED
503	3'-0"	7'-0"	0'-1.34"	1	WD	A	HM	CONT. FLOORING	J3	H3		90-MINUTE FIRE RATED
505	3'-0"	7'-0"	0'-1.34"	1	WD	A	HM	CONT. FLOORING	J2	H2		45-MINUTE FIRE RATED
507	3'-0"	7'-0"	0'-1.34"	4	WD	A	HM	CONT. FLOORING	J2	H2		20-MINUTE FIRE RATED
508	3'-0"	7'-0"	0'-1.34"	1	WD	A	HM	S3	J2	H2		45-MINUTE FIRE RATED
509	3'-0"	7'-0"	0'-1.34"	1	WD	A	HM	CONT. FLOORING	J1	H1		
510	3'-0"	7'-0"	0'-1.34"	4	WD	A	HM	CONT. FLOORING	J1	H1		20-MINUTE FIRE RATED
512	3'-0"	7'-0"	0'-1.34"	1	WD	A	HM	CONT. FLOORING	J1	H1		
514	3'-0"	7'-0"	0'-1.34"	4	WD	A	HM	CONT. FLOORING	J1	H1		20-MINUTE FIRE RATED
516	3'-0"	7'-0"	0'-1.34"	1	WD	A	HM	CONT. FLOORING	J1	H1		
517	3'-0"	7'-0"	0'-1.34"	4	WD	A	HM	CONT. FLOORING	J2	H2		20-MINUTE FIRE RATED
518	3'-0"	7'-0"	0'-1.34"	1	WD	A	HM	S3	J2	H2		45-MINUTE FIRE RATED
519	3'-0"	7'-0"	0'-1.34"	1	WD	A	HM	CONT. FLOORING	J2	H2		45-MINUTE FIRE RATED
520	3'-0"	7'-0"	0'-1.34"	4	WD	A	HM	CONT. FLOORING	J2	H2		20-MINUTE FIRE RATED
522	3'-0"	7'-0"	0'-1.34"	1	WD	A	HM	CONT. FLOORING	J1	H1		
523	3'-0"	7'-0"	0'-1.34"	1	WD	A	HM	CONT. FLOORING	J2	H2		45-MINUTE FIRE RATED
1100A	7'-8"	7'-0"	0'-1.34"	2	HM	A	HM	S1	J3	H3		90-MINUTE FIRE RATED, REMOVABLE MULLION
1100B	6'-0"	7'-0"	0'-1.34"	3	ALUM	SF 02	ALUM	CONT. FLOORING	J4	H4		REMOVABLE MULLION
1100C	7'-8"	7'-0"	0'-1.34"	2	HM	B	HM	S1	J3	H3		90-MINUTE FIRE RATED

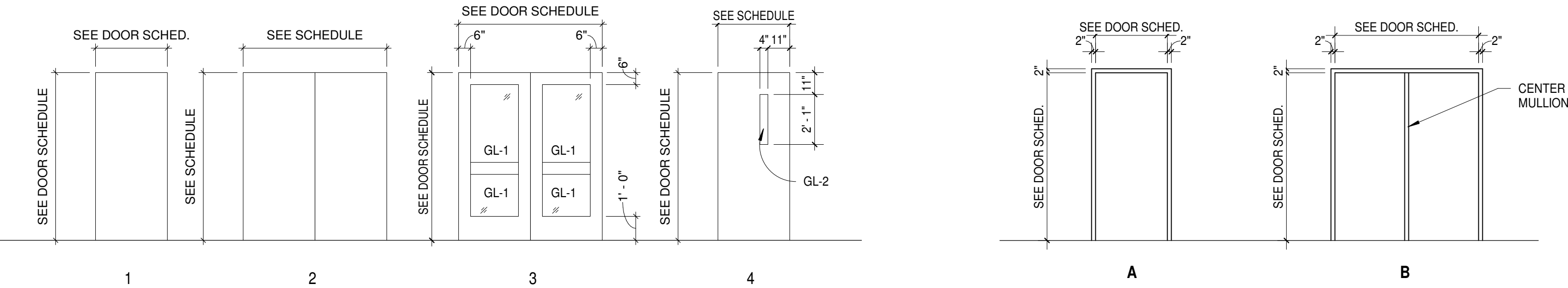


C1 DOOR JAMB AND HEAD DETAILS
1 1/2" = 1'-0"

B2 STOREFRONT JAMB AND HEAD DETAILS
1 1/2" = 1'-0"

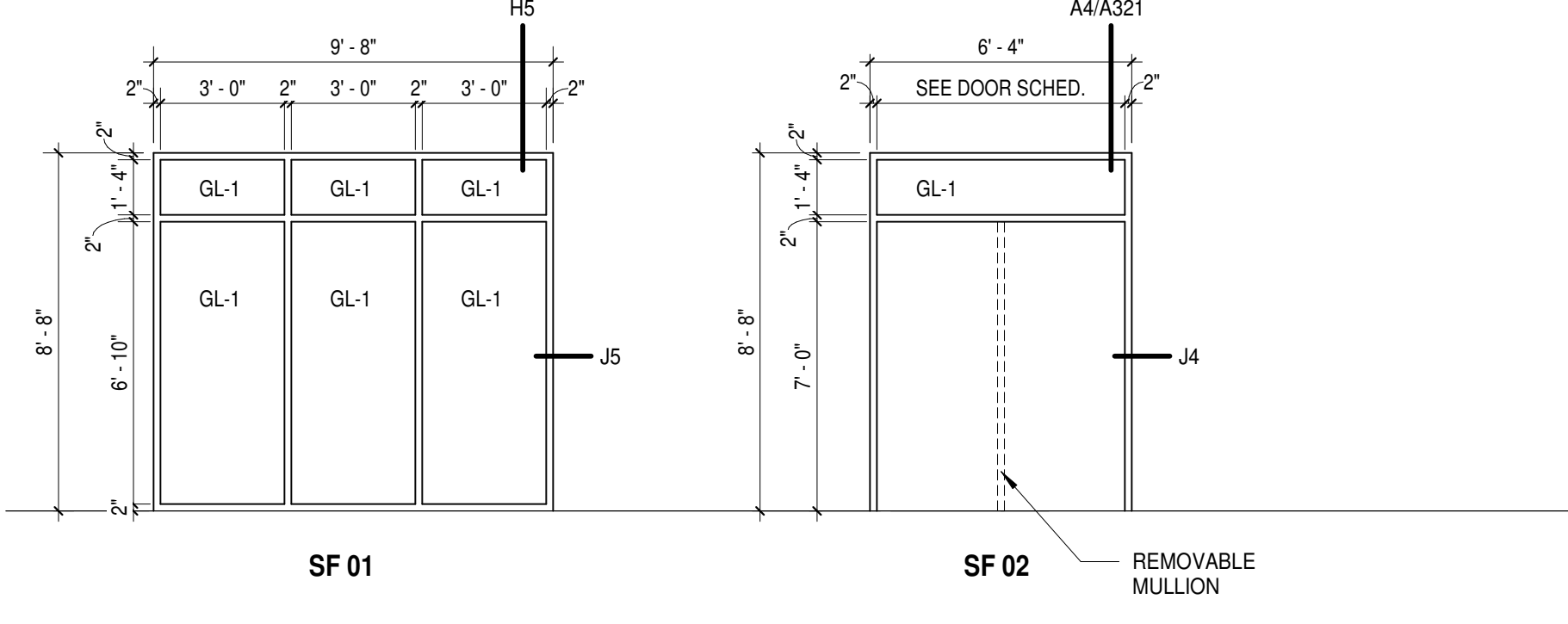


B1 DOOR SILL DETAILS
1 1/2" = 1'-0"



A1 DOOR TYPES
NTS

A2 DOOR FRAME TYPES
NTS



A3 STOREFRONT FRAMES
1/4" = 1'-0"

DOOR GENERAL NOTES

1. INTERIOR HM FRAMES SHALL BE 16 GA. SHOP PRIMED STEEL.
2. EXTERIOR HM FRAMES SHALL BE 14 GA. GALVANIZED SHOP PRIMED STEEL.
3. ALL CORNERS OF EXTERIOR HM FRAMES SHALL BE SHOP (FULL) WELDED AND GROUND SMOOTH.
4. FLOOR ANCHORS ARE REQUIRED AT EACH HM FRAME.
5. THRESHOLDS SHALL BE 1/2" MAXIMUM HEIGHT.
6. HEAD ANCHORS: TWO ANCHORS PER HEAD FOR FRAMES MORE THAN 42 INCHES (1067 MM) WIDE AND MOUNTED IN METAL STUD PARTITIONS.
7. HARDWARE PREPARATION: FACTORY PREPARE HOLLOW-METAL WORK TO RECEIVE TEMPLATED MORTISED HARDWARE, INCLUDE CUTOOTS, REINFORCEMENT, MORTISING, DRILLING, AND TAPPING ACCORDING TO SDI A250.6, THE DOOR HARDWARE SCHEDULE, AND TEMPLATES.
8. MULLIONS AND TRANSOM BARS: JOIN TO ADJACENT MEMBERS BY WELDING

DOOR AND HOLLOW METAL GLAZING SCHEDULE

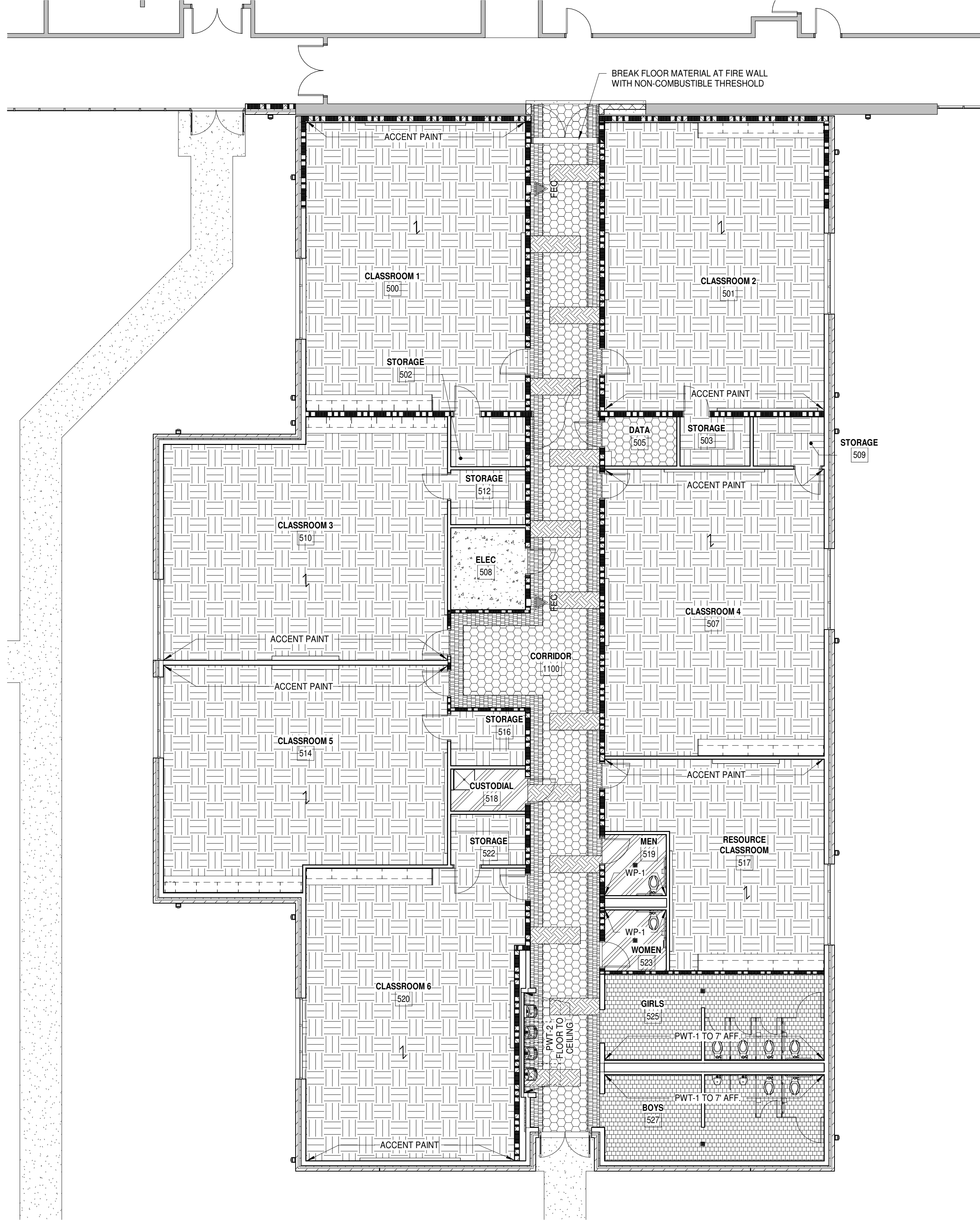
- GL-1 1" INSULATING TEMPERED GLASS
GL-2 1/4" INSULATING TEMPERED GLASS

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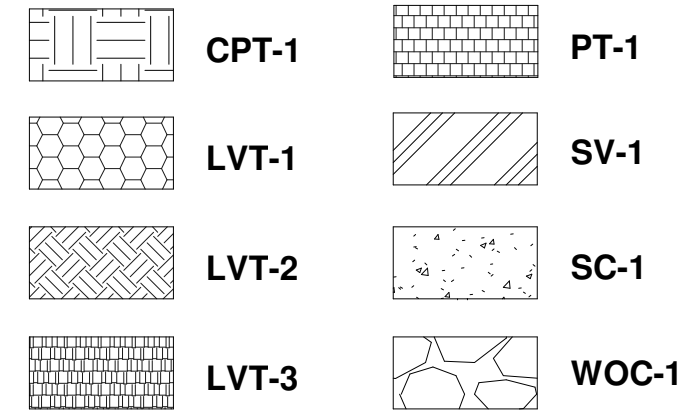
FINISHES AND MATERIALS SCHEDULE						
KEY	MANUFACTURER	PATTERN / ITEM NO	COLOR	SIZE	FINISH	NOTES
CARPET						
CPT-1	MOHAWK	MIXOLOGY - POSTURE TILE	SEA BREEZE 585	24" X 24"	-	CLASSROOM CARPET - MONOLITHIC INSTALLATION; INSTALL IN NORTH/SOUTH DIRECTION AS NOTED ON THE FINISH PLAN
DOOR FINISH						
DF-1	TBD	TBD	TBD			
FIBER REINFORCED PANEL						
FRP-1	CRANE COMPOSITES	GLASBORD	TBD			CUSTODIAL WALLS
GROUT						
G-1	TBD		TBD			
LUXURY VINYL TILE						
LVT-1	MOHAWK	MATUTO PLUS STONE	FROSTBITE STONE 915A	12" X 24"		FIELD LVT
LVT-2	MOHAWK	LIVING LOCAL	CEDAR W332	6" X 48"		ACCENT LVT
LVT-3	MOHAWK	CHROMASCOPE	PATRINA NIGHT 650	12" X 24"		ACCENT LVT
PAINT						
P-1	SHERWIN WILLIAMS	SW 9166	DRIFT OF MIST		EGGSHELL	FIELD PAINT
P-3	SHERWIN WILLIAMS	SW 6515	LEISURE BLUE		EGGSHELL	ACCENT WALL PAINT
P-4	SHERWIN WILLIAMS	SW 7658	GRAY CLOUDS		EGGSHELL	ACCENT WALL PAINT
P-5	SHERWIN WILLIAMS	SW 7658	GRAY CLOUDS		SEMI-GLOSS	INTERIOR TRIM PAINT
P-6	SHERWIN WILLIAMS	SW 7007	CEILING BRIGHT WHITE		FLAT	GWB CEILING PAINT
PLASTIC LAMINATE						
PL-1	FORMICA	6688-58	PALOMA POLAR		MATTE	COUNTERTOP
PL-2	FORMICA	8846-58	OILED LEGNO		MATTE	CABINETS
PORCELAIN TILE						
PT-1	CROSSVILLE	COLOR BLOX 2.0	BLUE SUEDE SHOES CBX13.1060UPS	6" X 6"	UNPOLISHED	
PORCELAIN TILE BASE						
PTB-1	CROSSVILLE	COLOR BLOX 2.0	BLUE SUEDE SHOES CBX13.1061DCBS	6" X 12" COVE BASE	UNPOLISHED	
PORCELAIN WALL TILE						
PWT-1	CROSSVILLE	COLOR BLOX 2.0	BLUE SUEDE SHOES CBX13.1060UPS	6" X 6"	UNPOLISHED	PWT-1 UP TO 7' AFF; 50% OFFSET INSTALLATION; SEE ELEVATION ON SHEET A400
PWT-2	CROSSVILLE	COLOR BLOX 2.0	SUNKY CBX03.10412UPS	4" X 12"	UNPOLISHED	PWT-2 FROM FLOOR TO CEILING BEHIND WATER FOUNTAINS; 33% OFFSET VERTICAL INSTALLATION; SEE ELEVATION ON SHEET A400
RUBBER BASE						
RB-1	JOHNSONITE	TRADITIONAL RUBBER BASE	TBD	4" HIGH		
SCHLUTER SYSTEMS						
S-1	SCHLUTER SYSTEMS	JOLLY	ANODIZED ALUMINUM			TRIM FOR PWT-1
SEALED CONCRETE						
SC-1						
SHEET VINYL						
SV-1	ALTRO	OPERETTA	TBD	ROLL		MEN AND WOMEN'S RESTROOMS
SOLID SURFACE						
SS-2	TERREON		TBD			BRADLEY SINK
TOILET PARTITIONS						
TP-1	SCRANTON		TBD			
WALK OFF CARPET						
WOC-1	MOHAWK	TUFF STUFF II - FIRST STEP II TILE QL315	COBALT 955	24" X 24"		
WALL PANEL						
WP-1	ALTRO	TEGULUS - 3" X 6" SUBWAY TILE	TBD	4" X 8'-2"		MEN AND WOMEN'S RESTROOMS WET WALL

FINISH SCHEDULE											
ROOM NUMBER	ROOM NAME	FLOOR		WALLS				CEILING	MILLWORK	COUNTERTOP	COMMENTS
		FINISH	BASE	N	E	S	W				
500	CLASSROOM 1	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT	PL-2	PL-1	
501	CLASSROOM 2	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT	PL-2	PL-1	
502	STORAGE	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT	-	-	
503	STORAGE	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT	-	-	
505	DATA	LVT-1	RB-1	P-1	P-1	P-1	P-1	ACT	-	-	
507	CLASSROOM 4	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT	PL-2	PL-1	
508	ELEC	SC-1	RB-1	P-1	P-1	P-1	P-1	ACT	-	-	
509	STORAGE	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT	-	-	
510	CLASSROOM 3	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT	PL-2	PL-1	
512	STORAGE	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT	-	-	
514	CLASSROOM 5	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT	PL-2	PL-1	
516	STORAGE	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT	-	-	
517	RESOURCE CLASSROOM	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT	PL-2	PL-1	
518	CUSTODIAL	SV-1	FLASH COVE SV-1	FRP-1	FRP-1	FRP-1	FRP-1	ACT	-	-	
519	MEN	SV-1	FLASH COVE SV-1	P-1	P-1	WP-1 / P-1	P-1	GWB - P-6	-	-	
520	CLASSROOM 6	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT	PL-2	PL-1	
522	STORAGE	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT	-	-	
523	WOMEN	SV-1	FLASH COVE SV-1	WP-1 / P-1	P-1	P-1	P-1	GWB - P-6	-	-	
525	GIRLS	PT-1	PTB-1	P-1	P-1	PWT-1 / P-1	P-1	GWB - P-6	-	SS-1	PORCELAIN WALL TILE TO 7' AFF.
527	BOYS	PT-1	PTB-1	PWT-1 / P-1	P-1	P-1	P-1	GWB - P-6	-	SS-1	PORCELAIN WALL TILE TO 7' AFF.
1100	CORRIDOR	LVT-1,2,3	RB-1	P-1	P-1	P-1	P-1 / PWT-1	ACT	-	-	

83 FLOOR FINISH PLAN
D1110 1/8" = 1'-0"



FLOOR FINISH LEGEND



CONSULTANT LOGO

SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL
CLASSROOM ADDITION AND
INTERIOR RENOVATION

SPARTANBURG, SC

SHEET ISSUE:
NO. DATE DESCRIPTION BY

100% CONSTRUCTION
DOCUMENTS
PRINCIPAL IN CHARGE: DUL
PROJECT ARCHITECT: DUL
DRAWN BY: AL, DC

SHEET TITLE:
FINISH LEGEND
AND SCHEDULE

SHEET NO. PROJ. NO.
021352



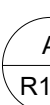
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SPARTANBURG, SC

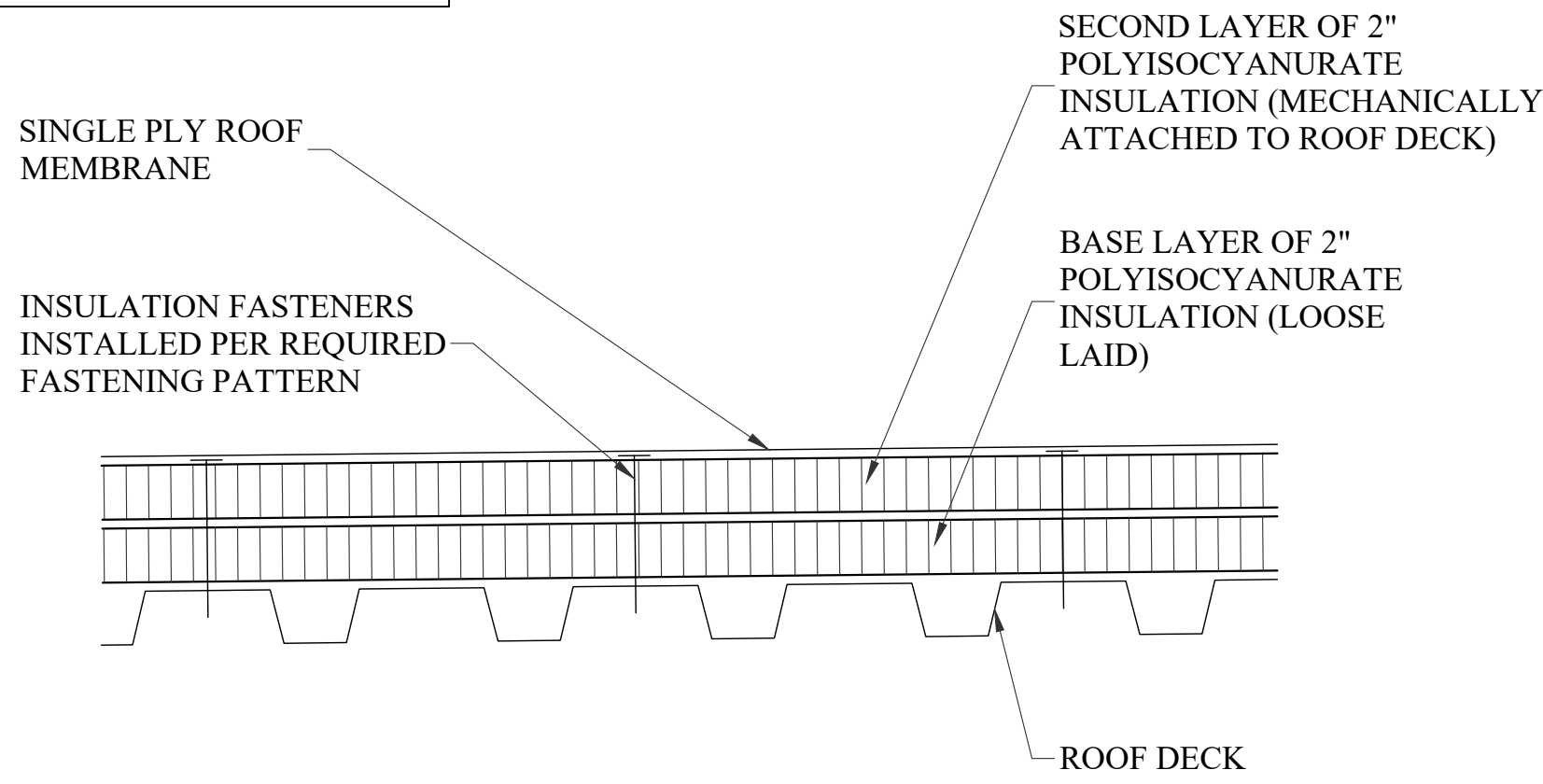
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DOCUMENTS
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PROJECT ARCHITECT: D
DRAWN BY: F

SHEET NO.	PROJ. N 0213
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NOTE:

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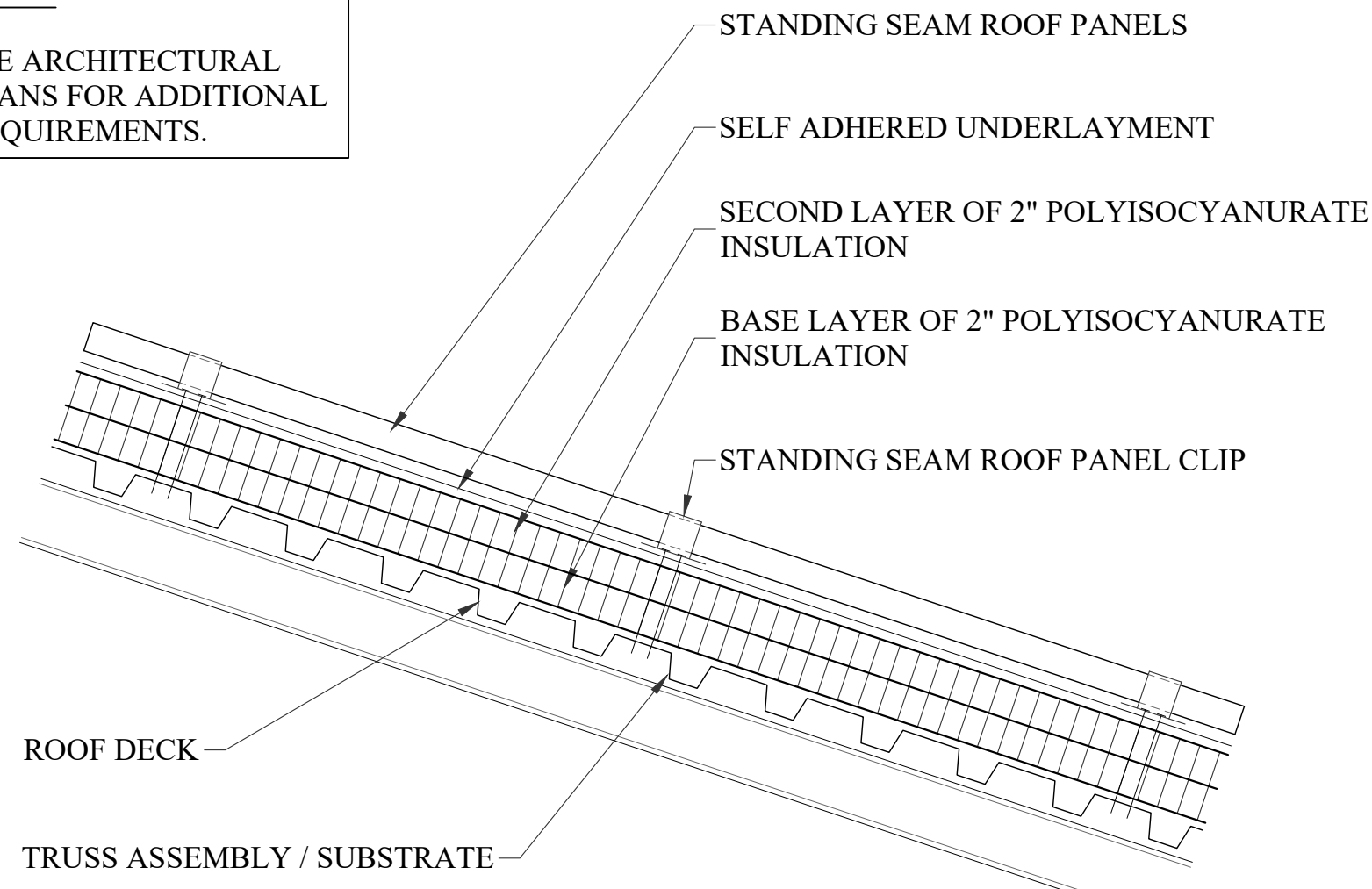


LOW SLOPE ROOF ASSEMBLY

DETAIL 1/R200

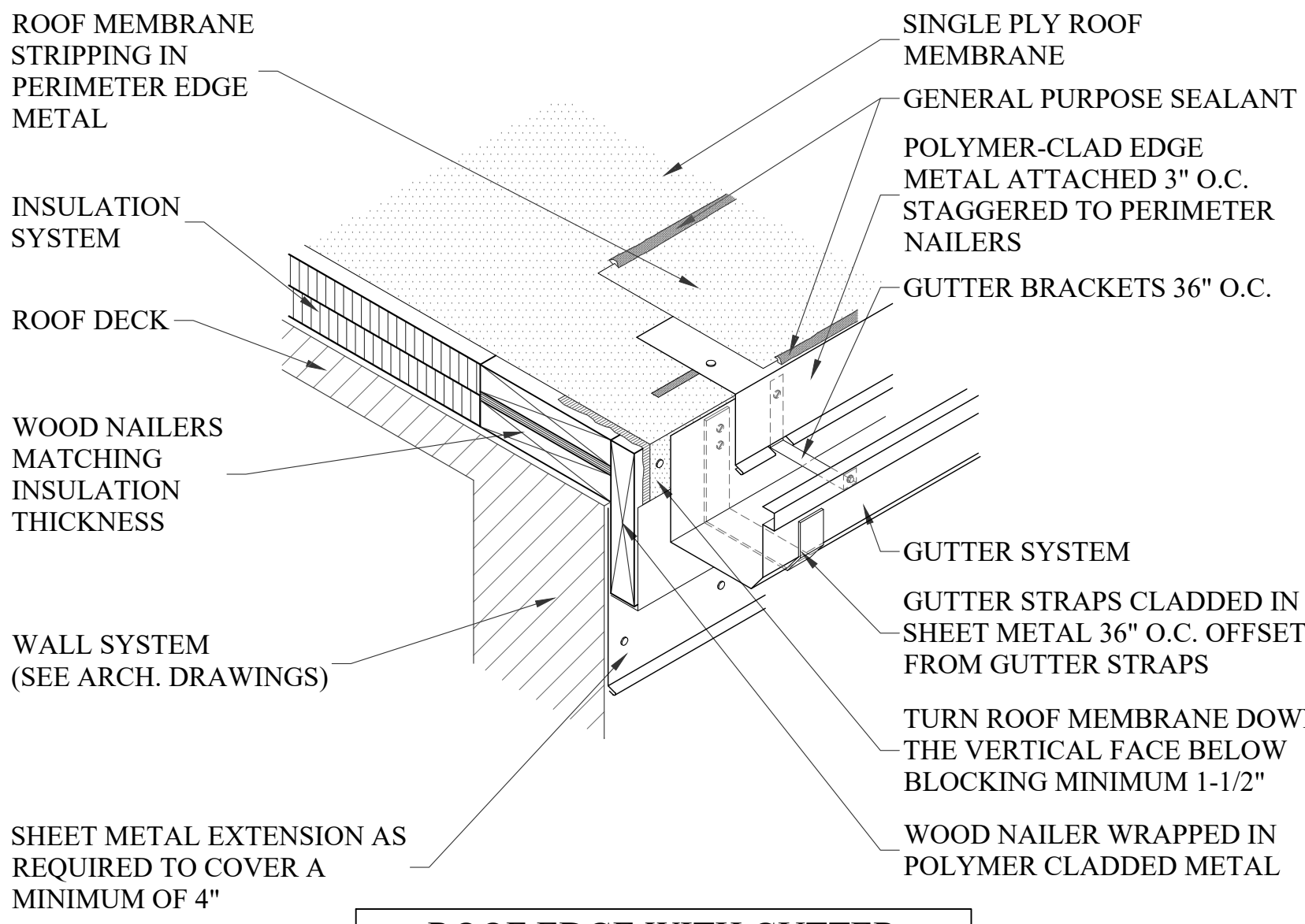
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1. SEE ARCHITECTURAL PLANS FOR ADDITIONAL REQUIREMENTS.



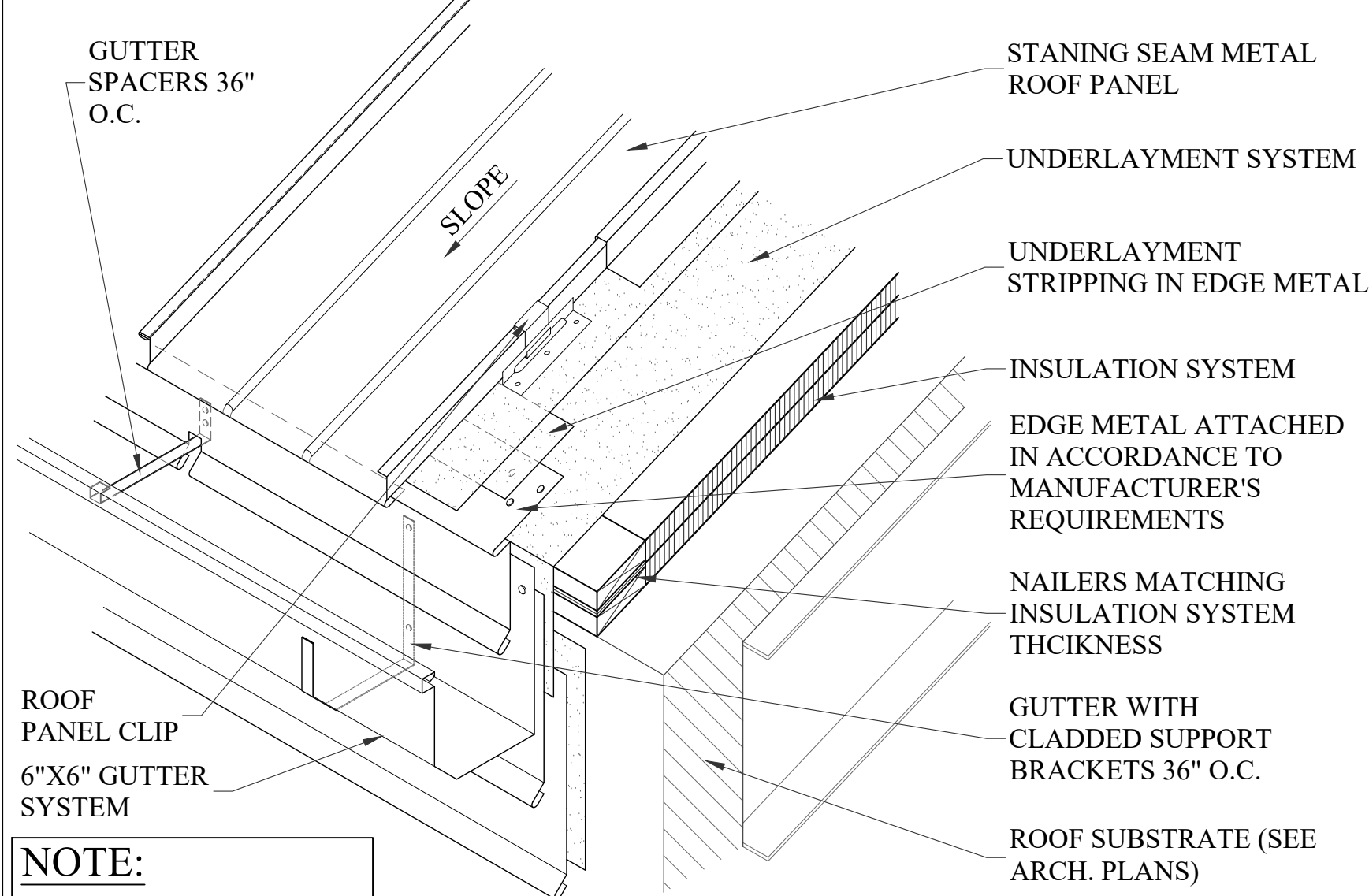
STEEP SLOPE ROOF ASSEMBLY

DETAIL 2/R200



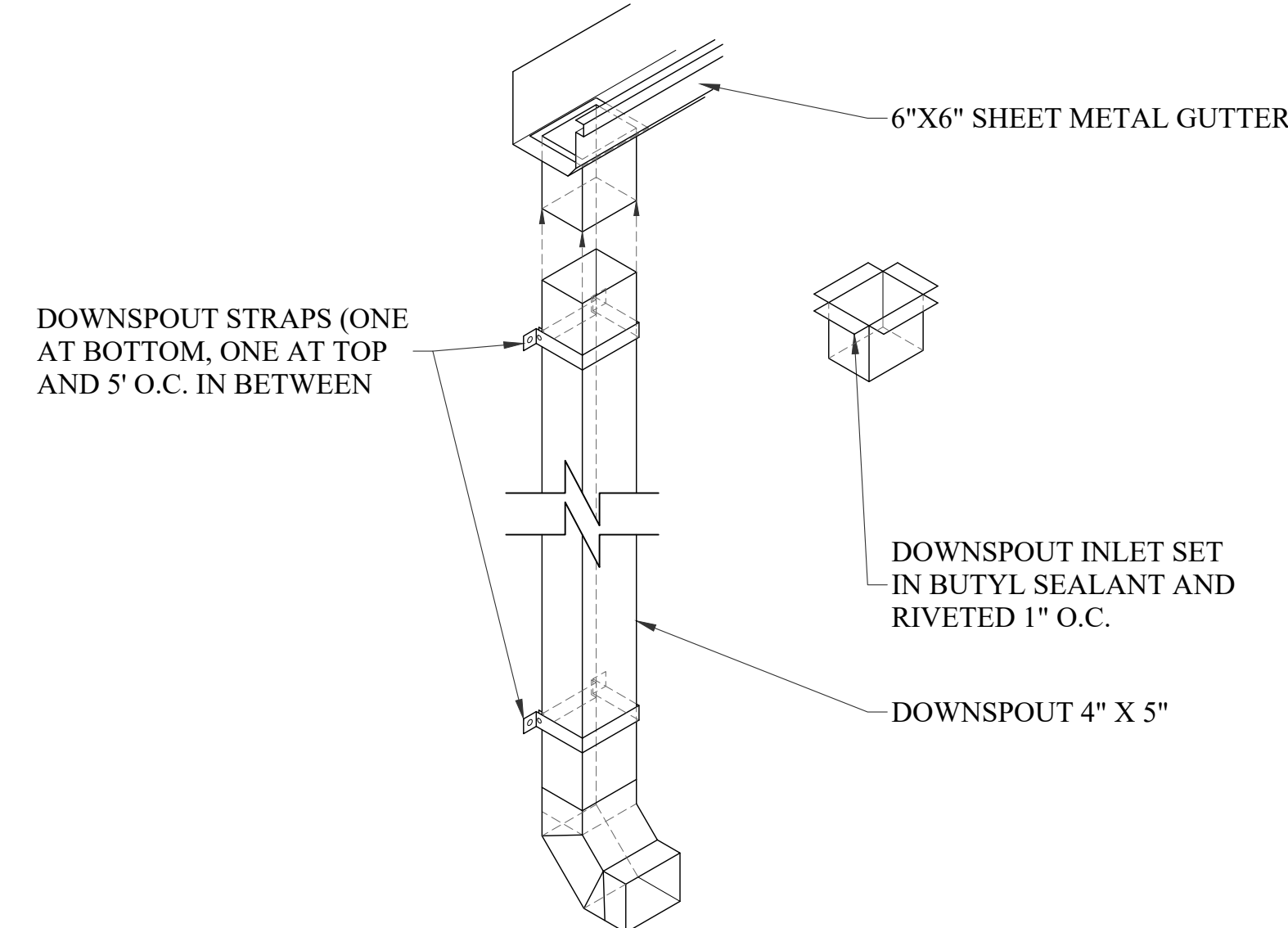
ROOF EDGE WITH GUTTER SYSTEM

DETAIL 3/R200



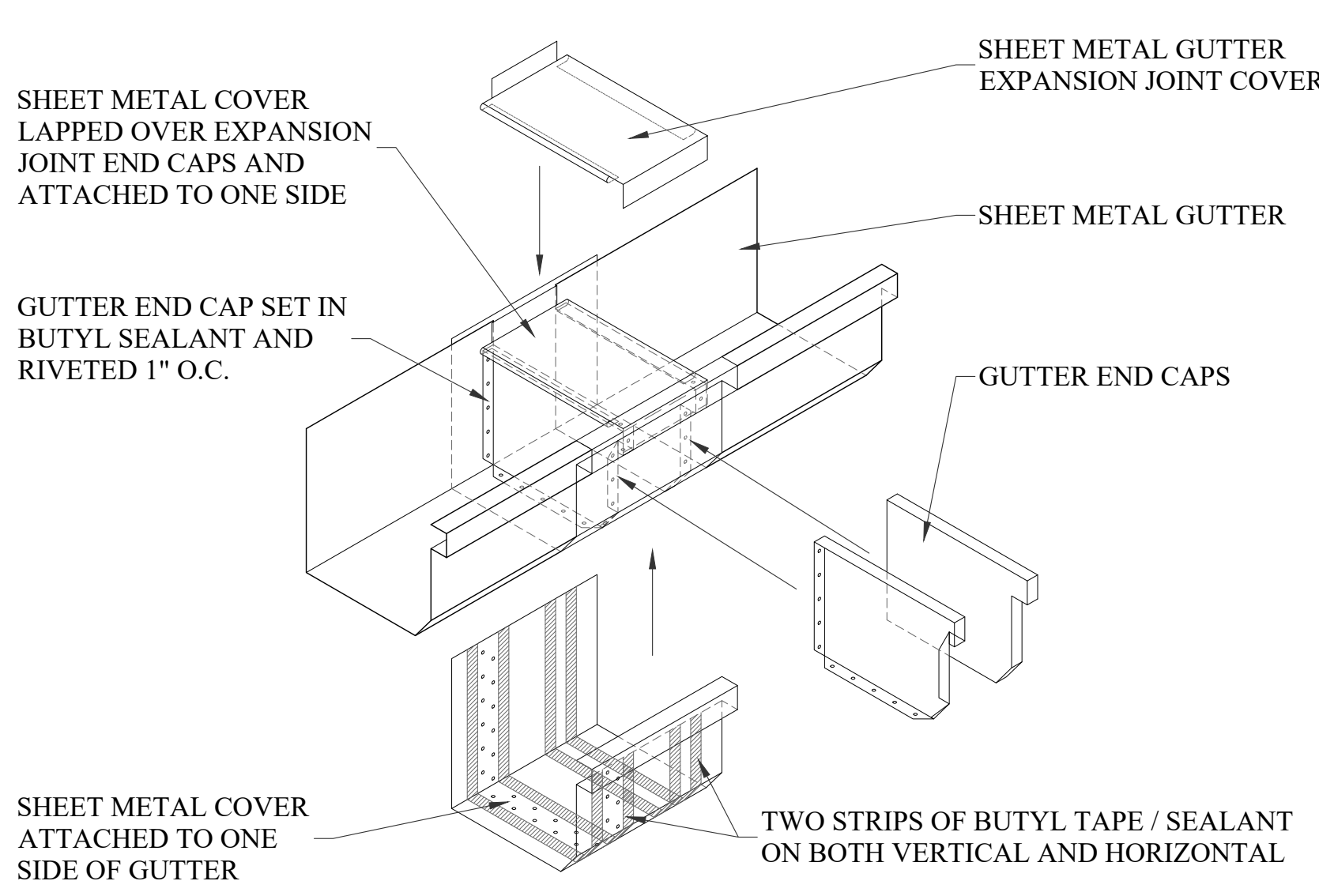
ROOF ASSEMBLY

DETAIL 4/R200



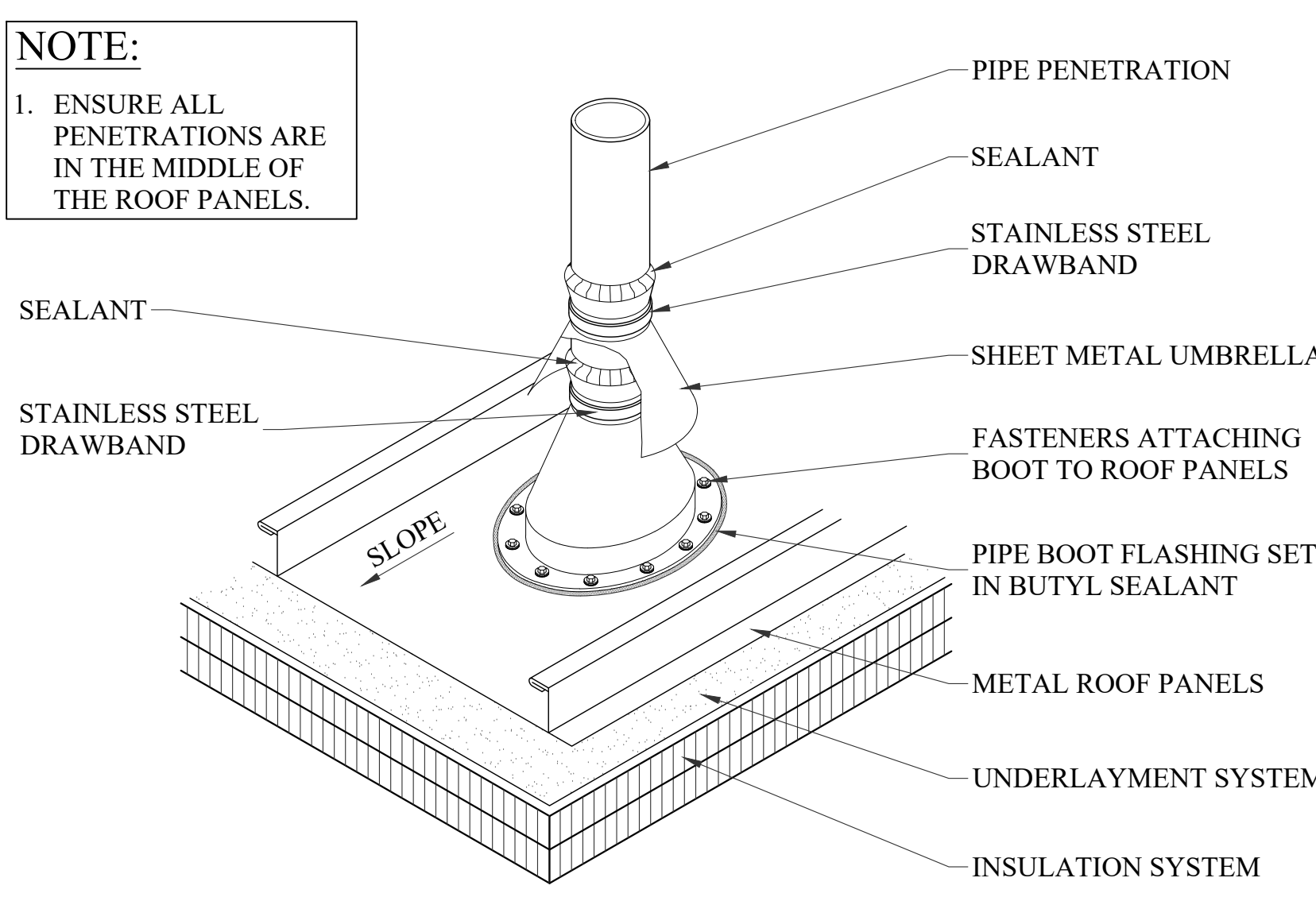
DOWNPSOUT

DETAIL 5/R200



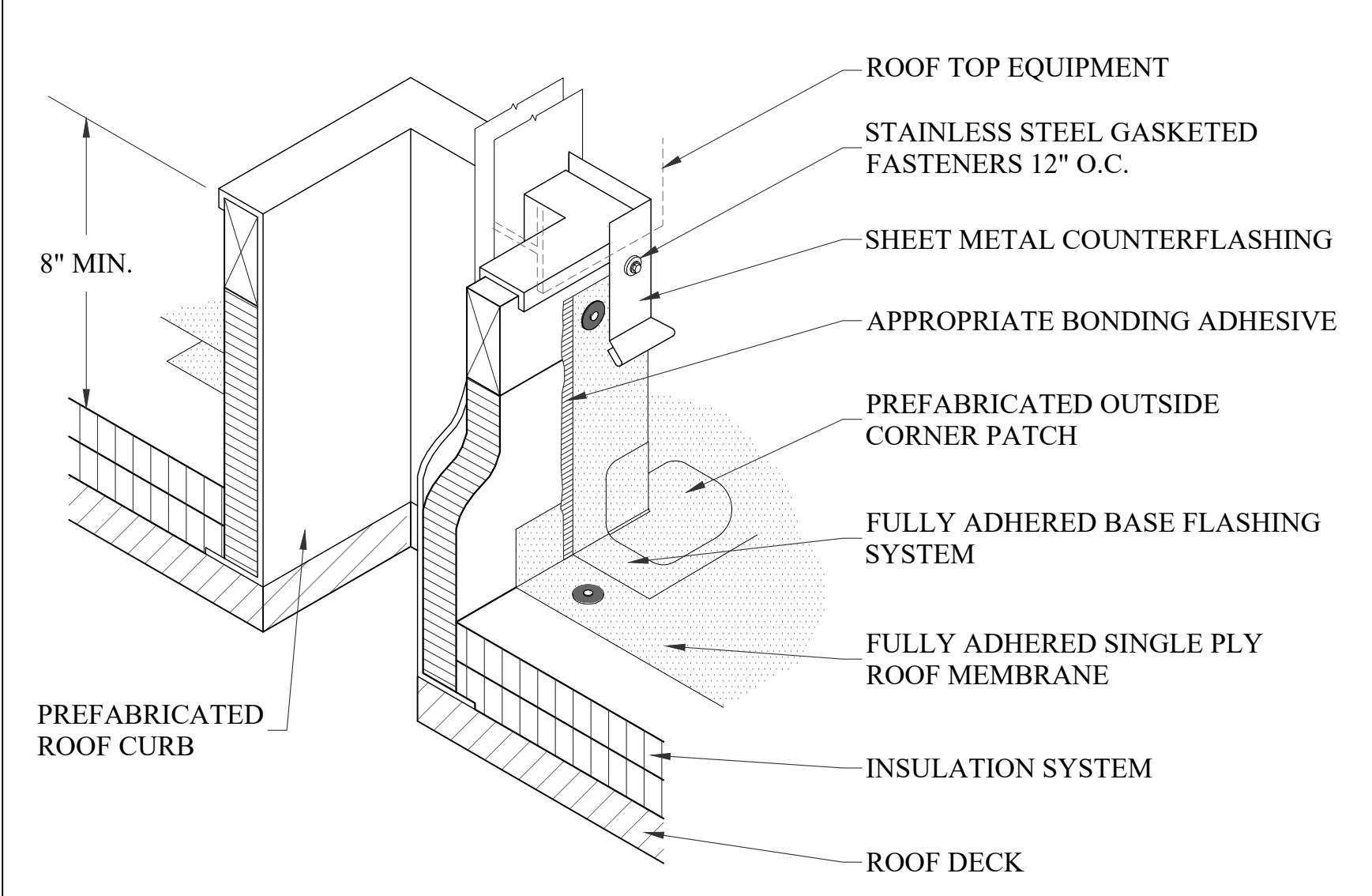
GUTTER EXPANSION JOINT

DETAIL 6/R200



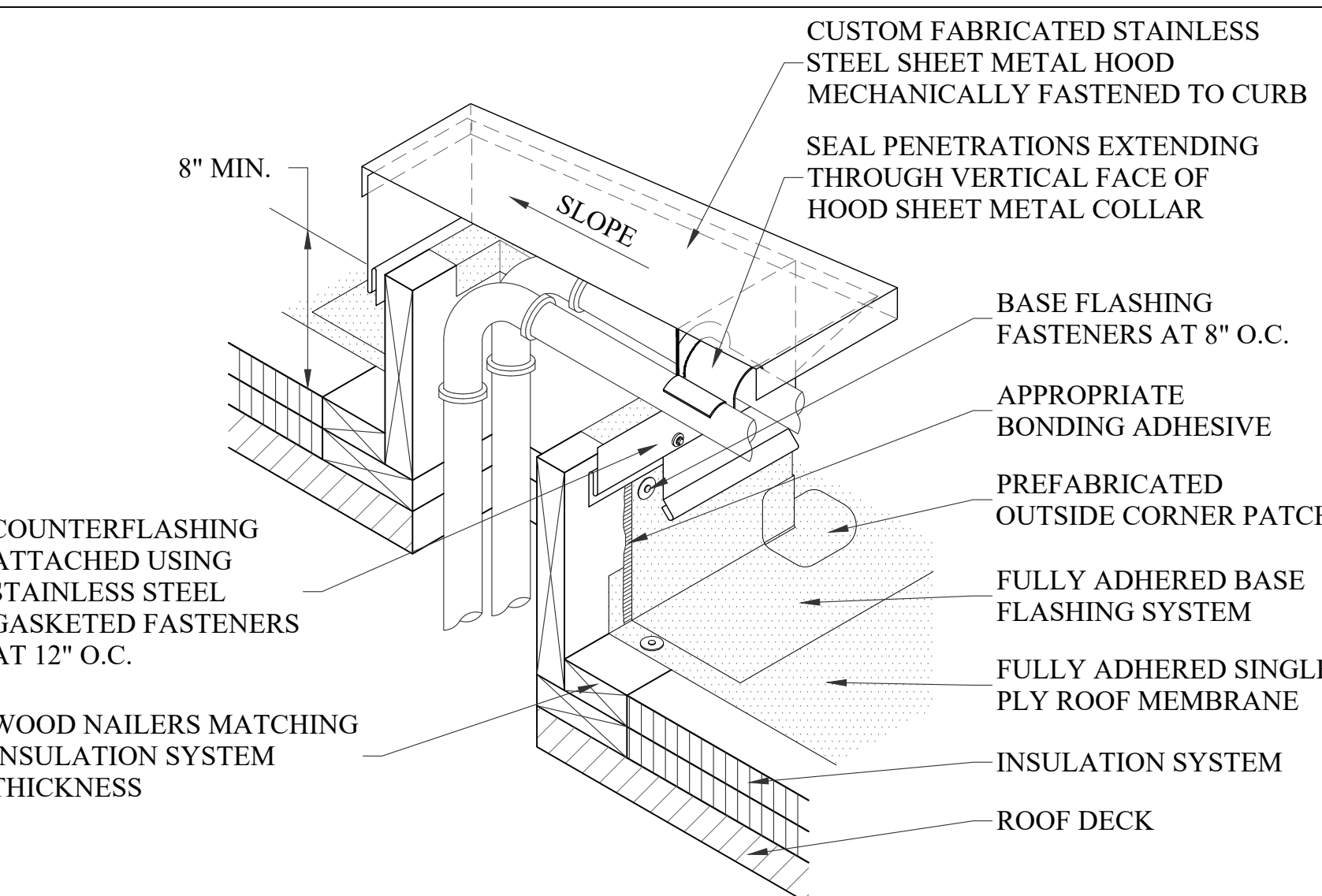
VENT THROUGH ROOF PENETRATION

DETAIL 7/R200



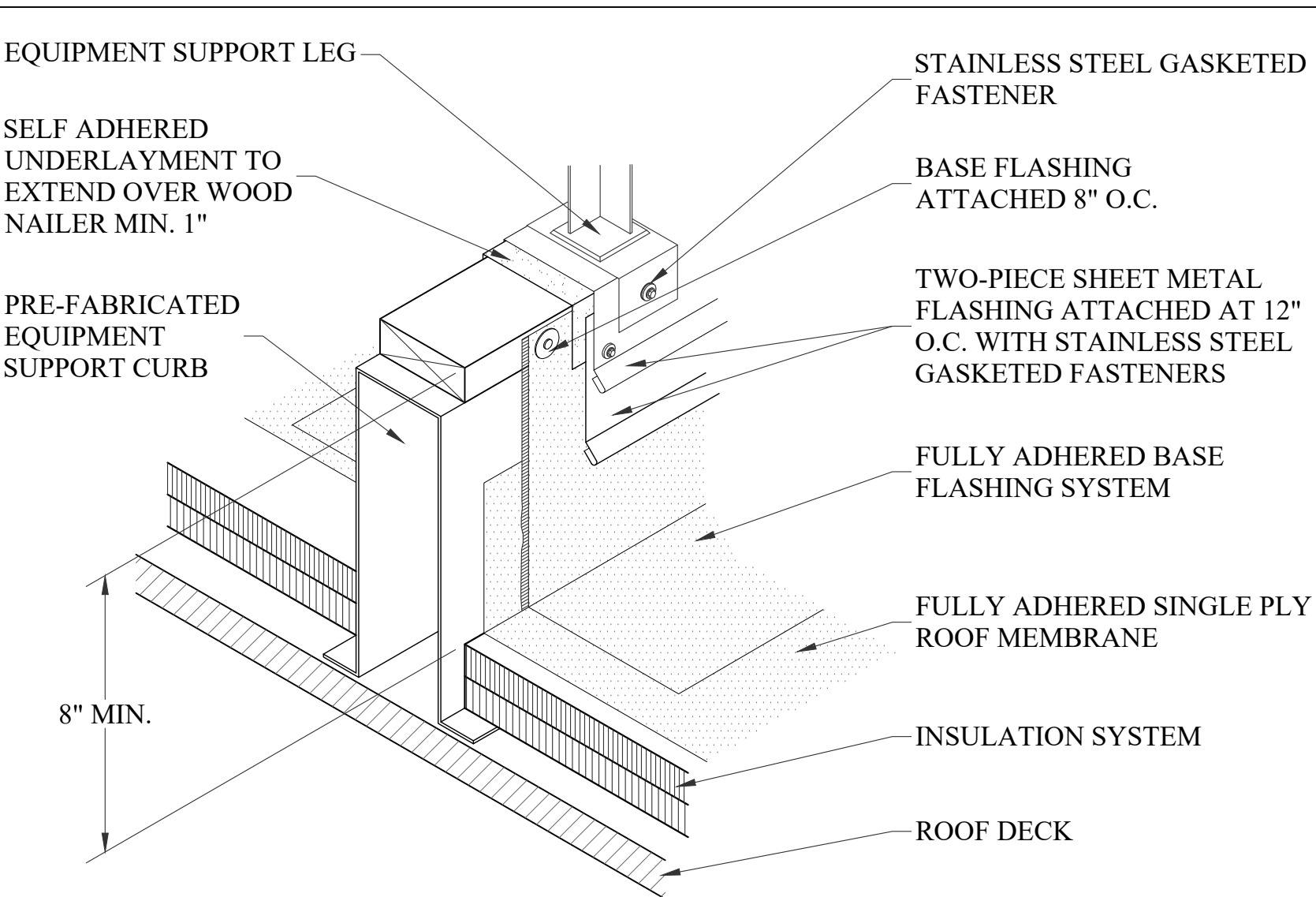
ROOF CURB

DETAIL 8/R200



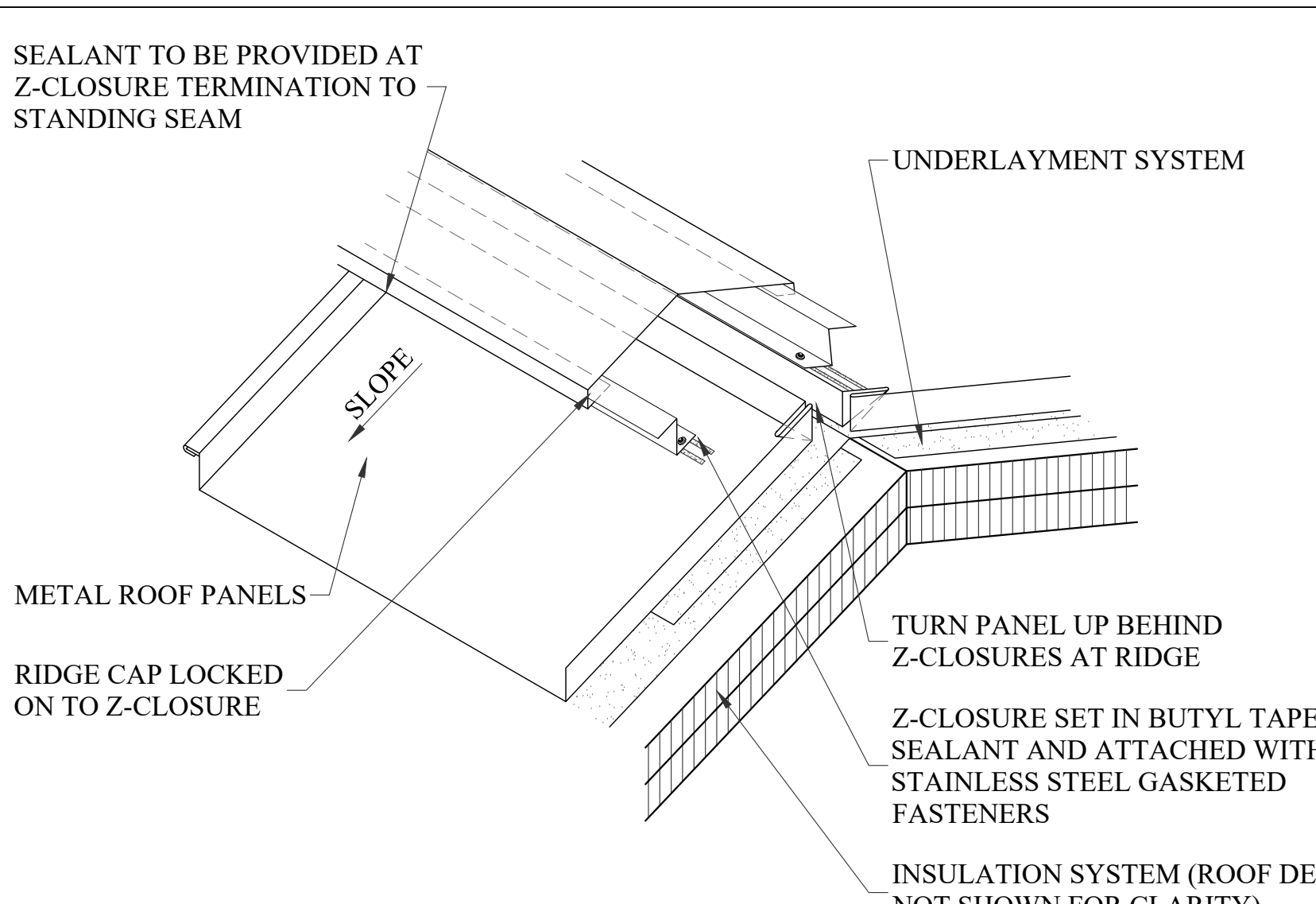
HOOD PENETRATION

DETAIL 9/R200



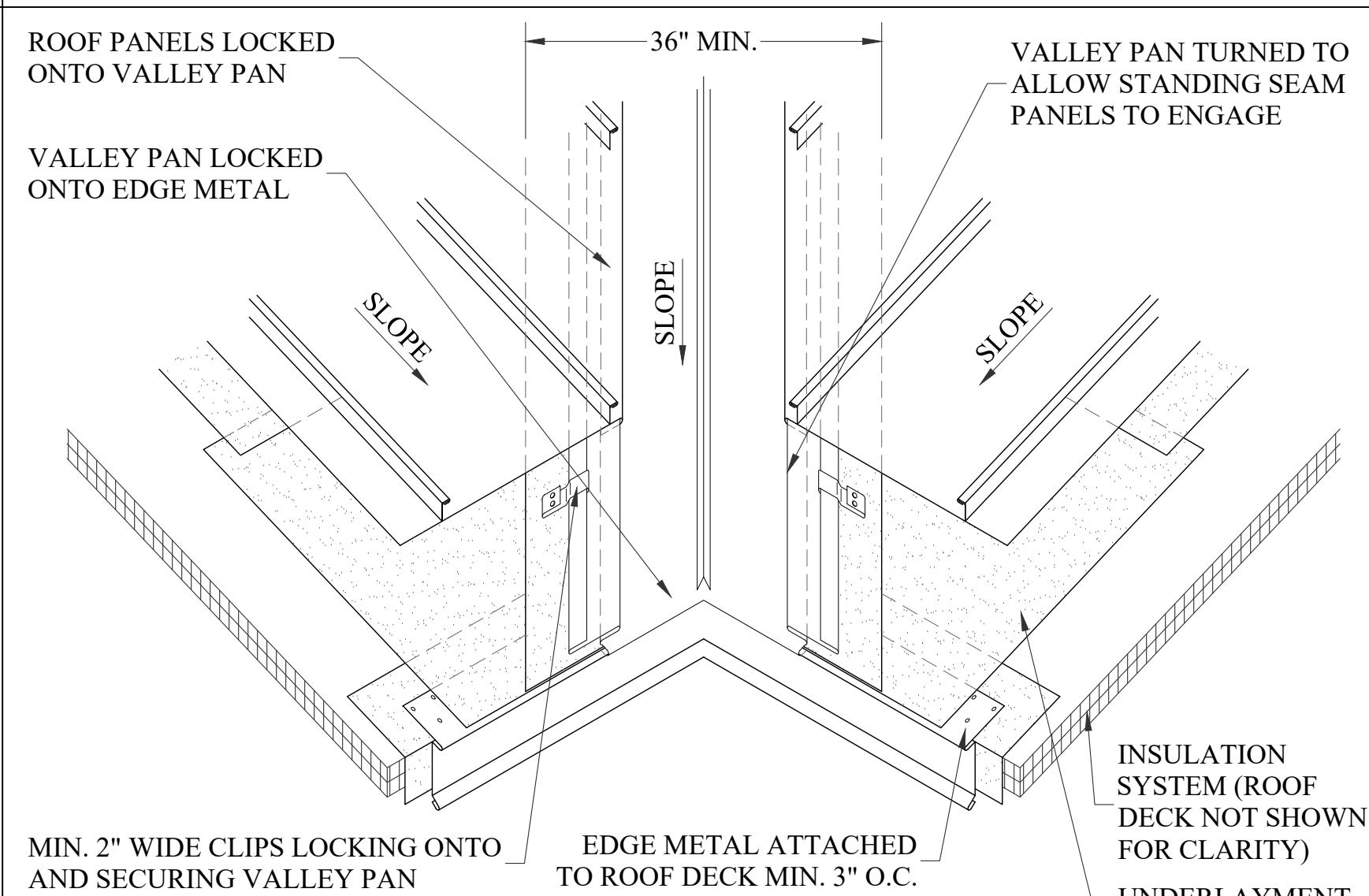
EQUIPMENT SUPPORT CURB

DETAIL 10/R200



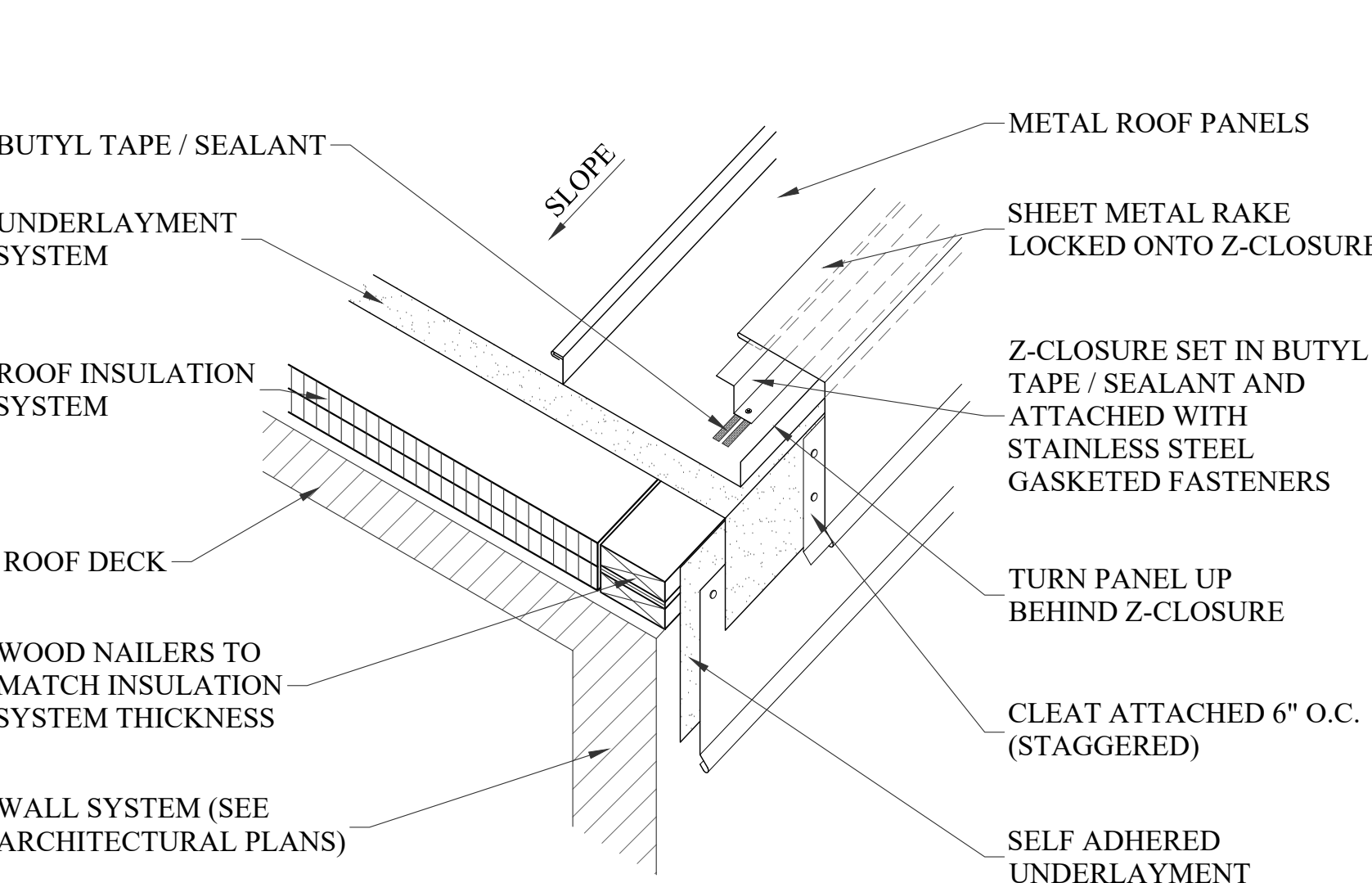
RIDGE

DETAIL 11/R200



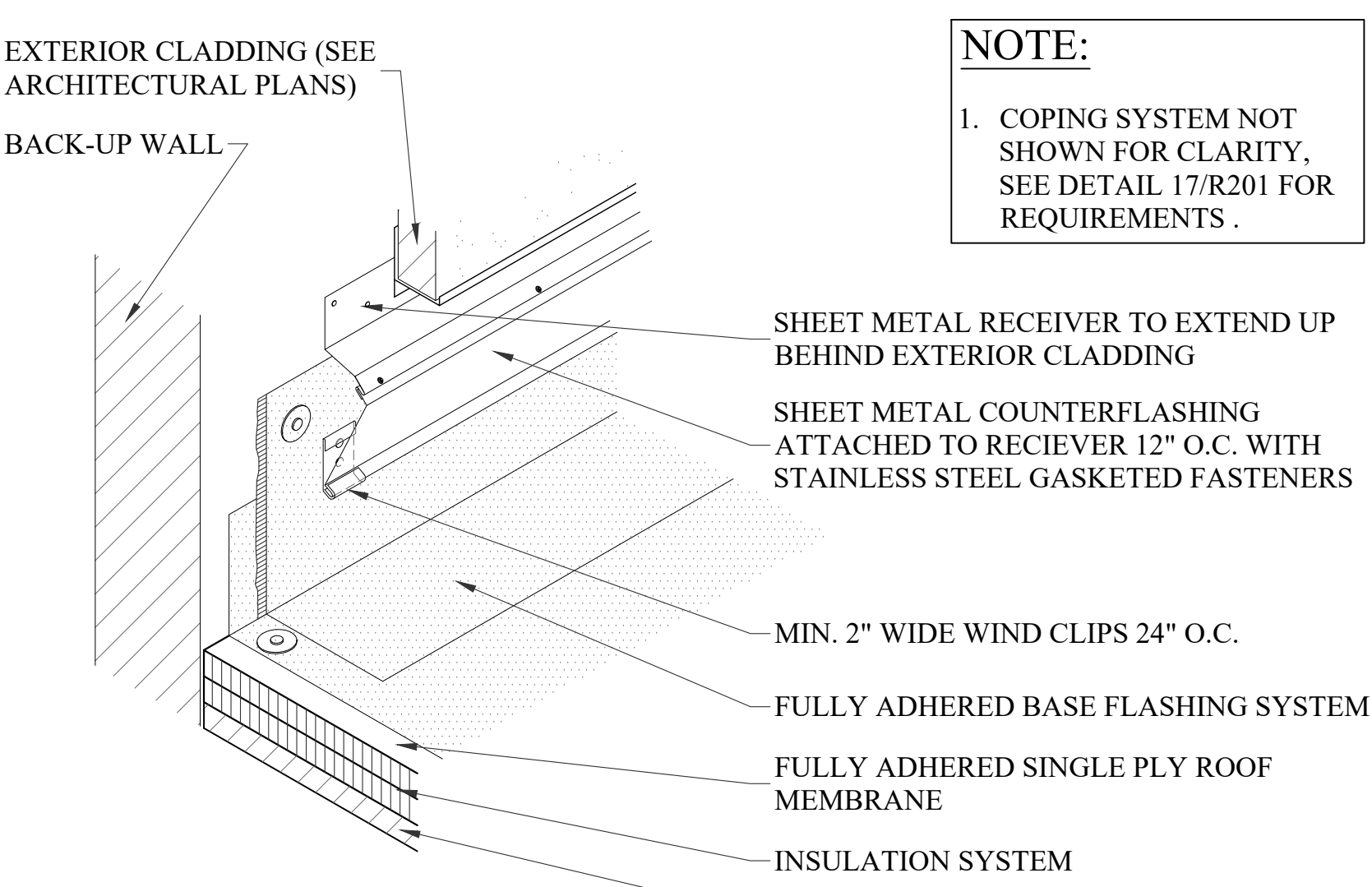
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DETAIL 12/R200



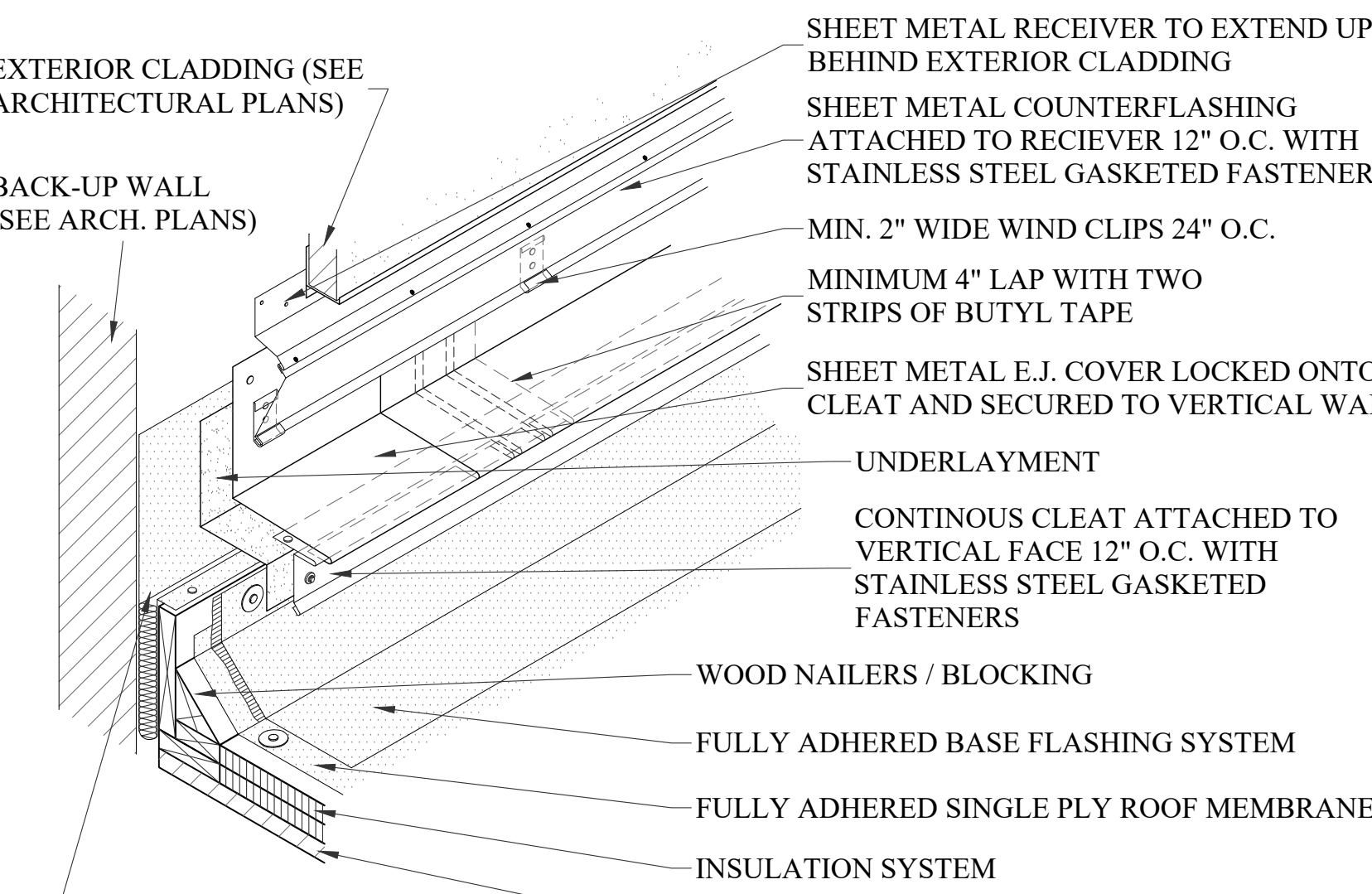
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DETAIL 13/R200



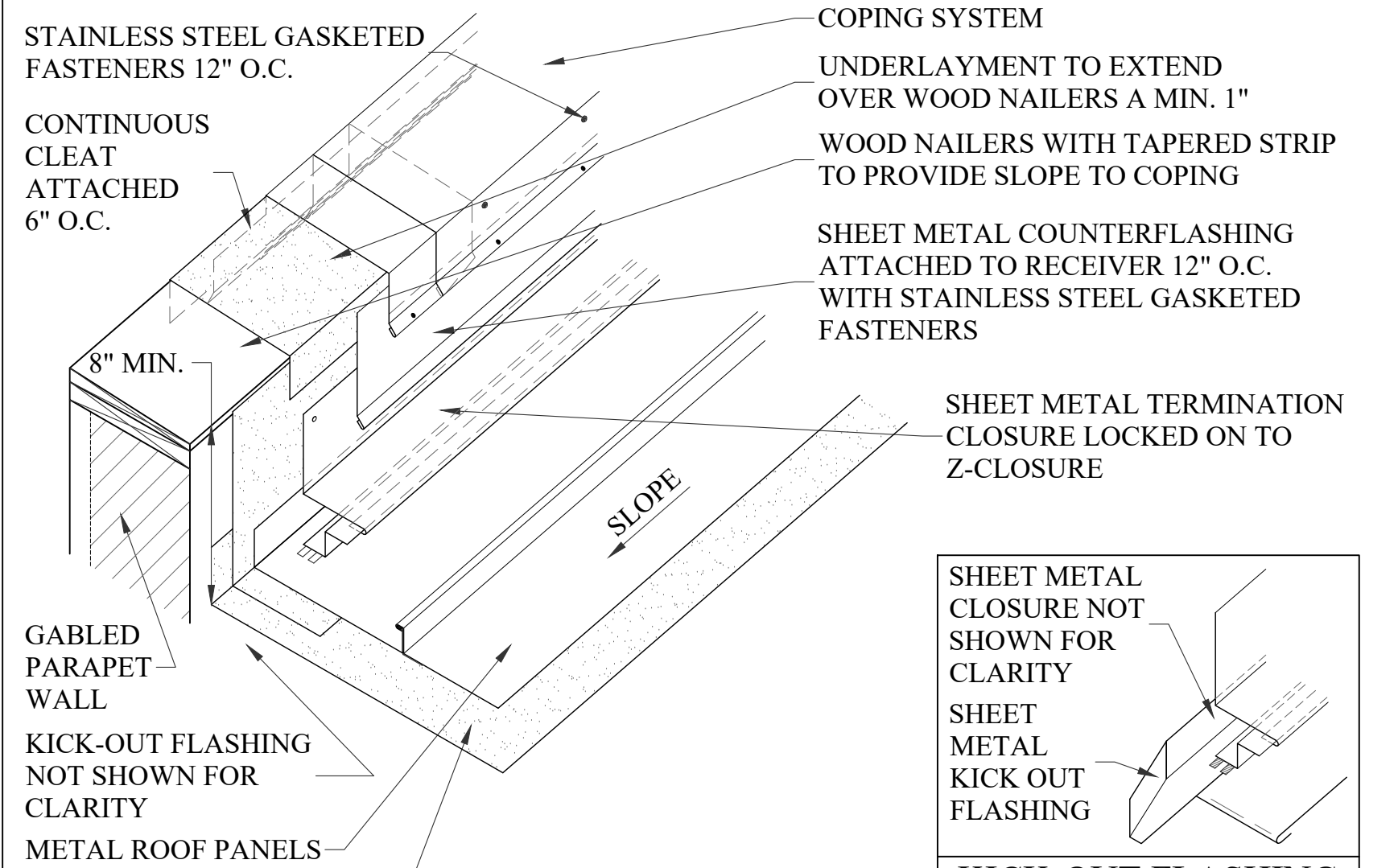
BASE FLASHING AT EIFS

DETAIL 14/R200



BASE FLASHING AT EXPANSION JOINT

DETAIL 15/R200

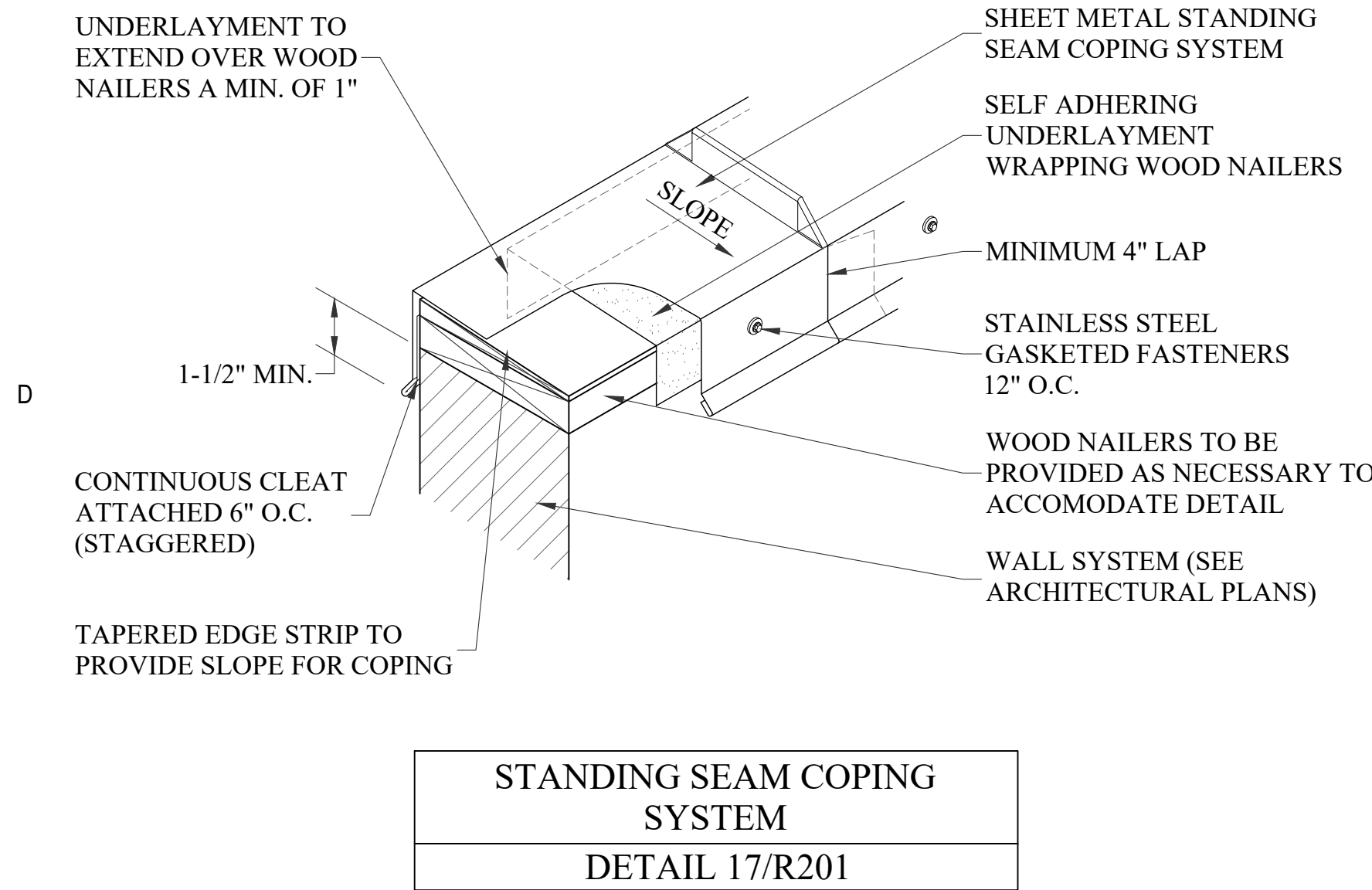


ROOF TO SIDE WALL TERMINATION

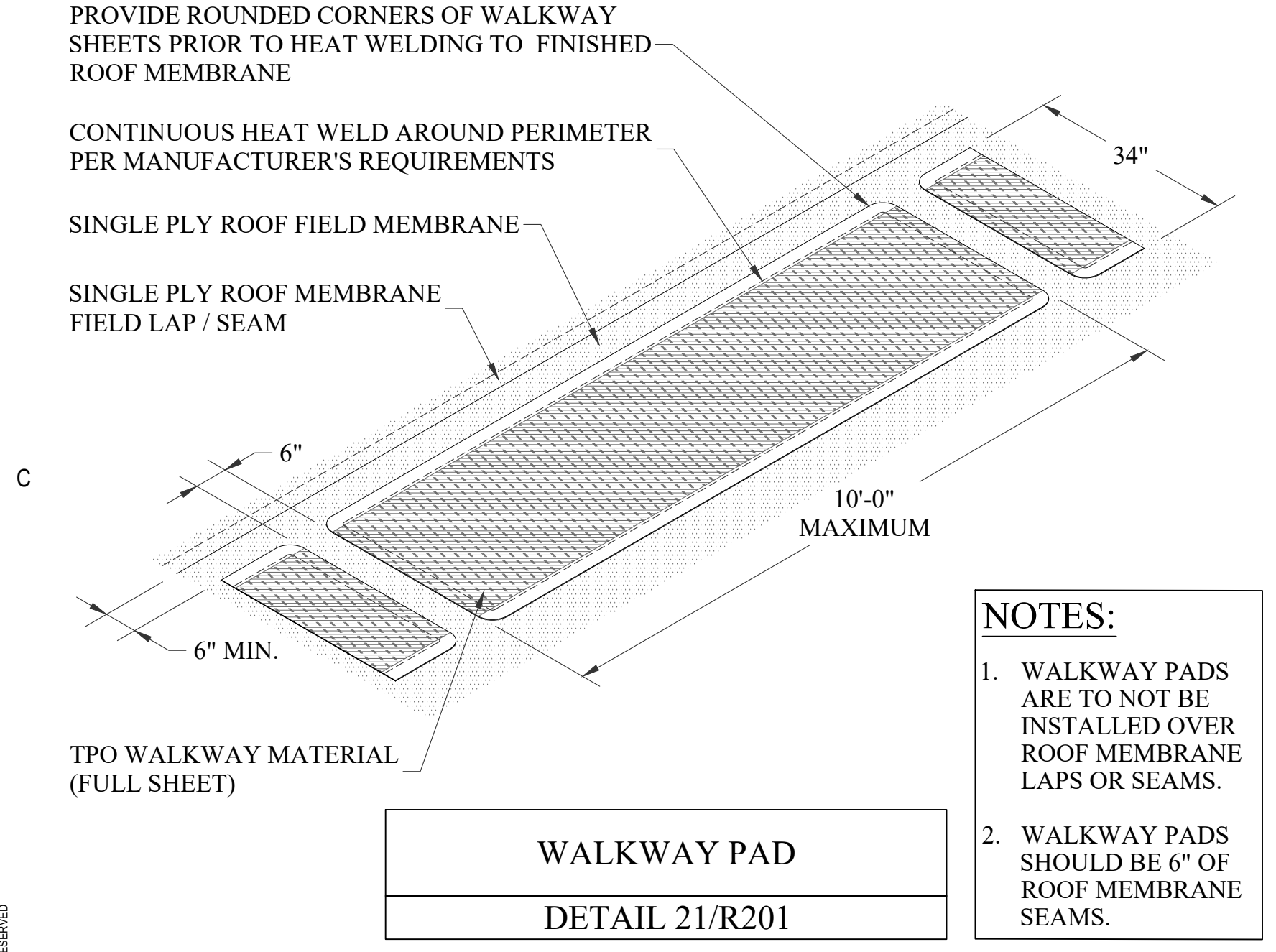
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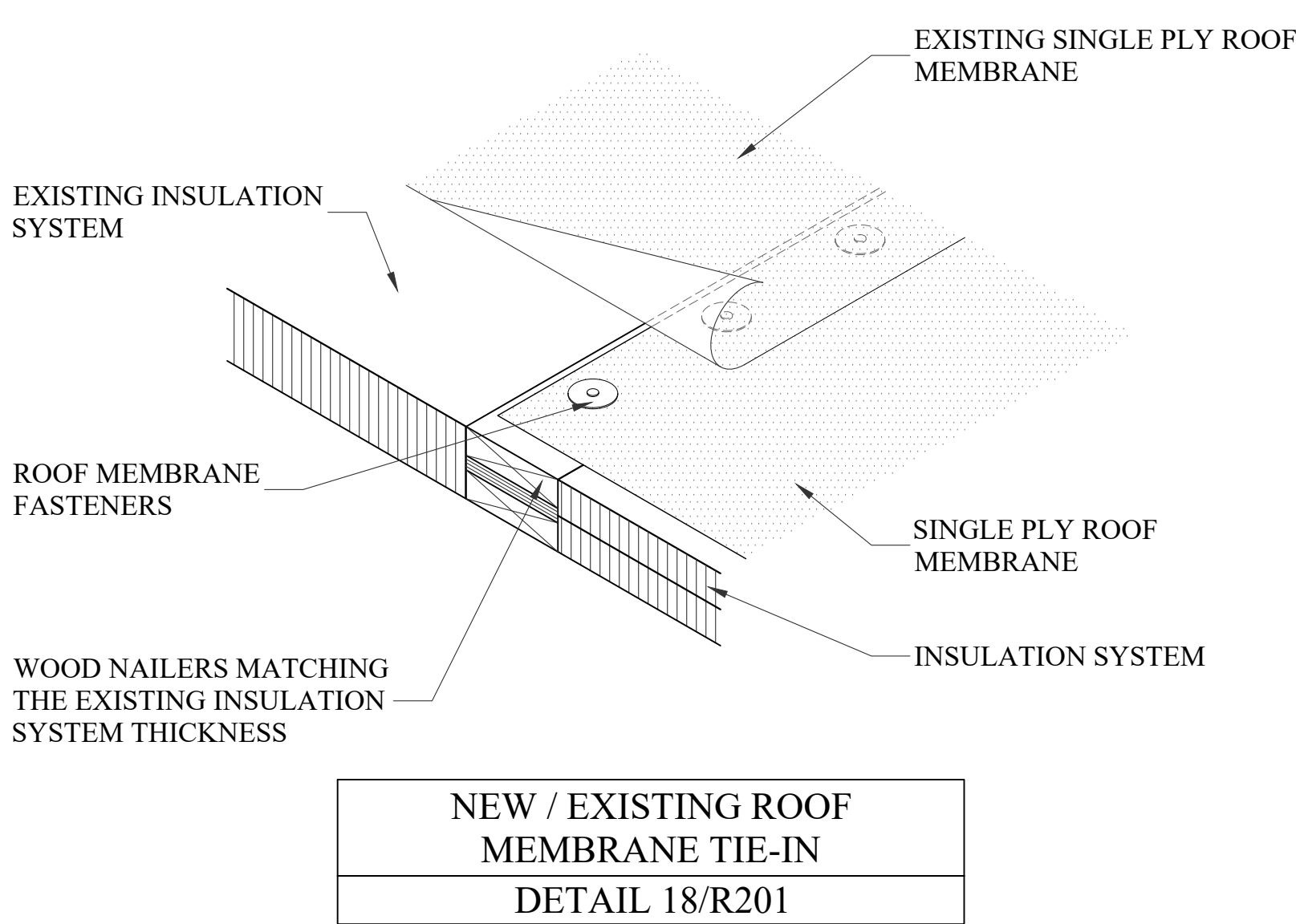
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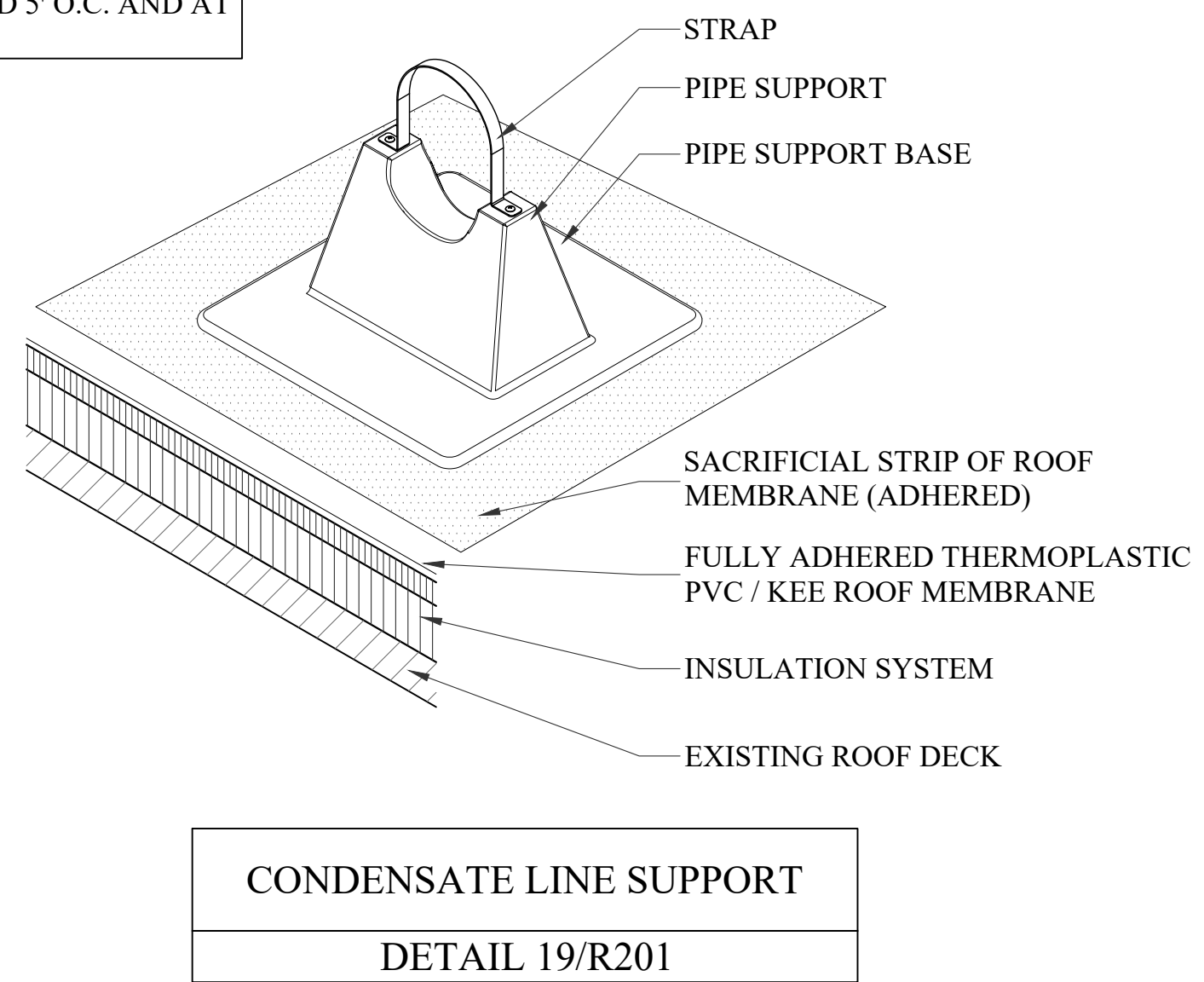
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DETAIL 30/R201

3

NOTE:
1. SUPPORTS TO BE PROVIDED 5' O.C. AND AT ELBOWS.

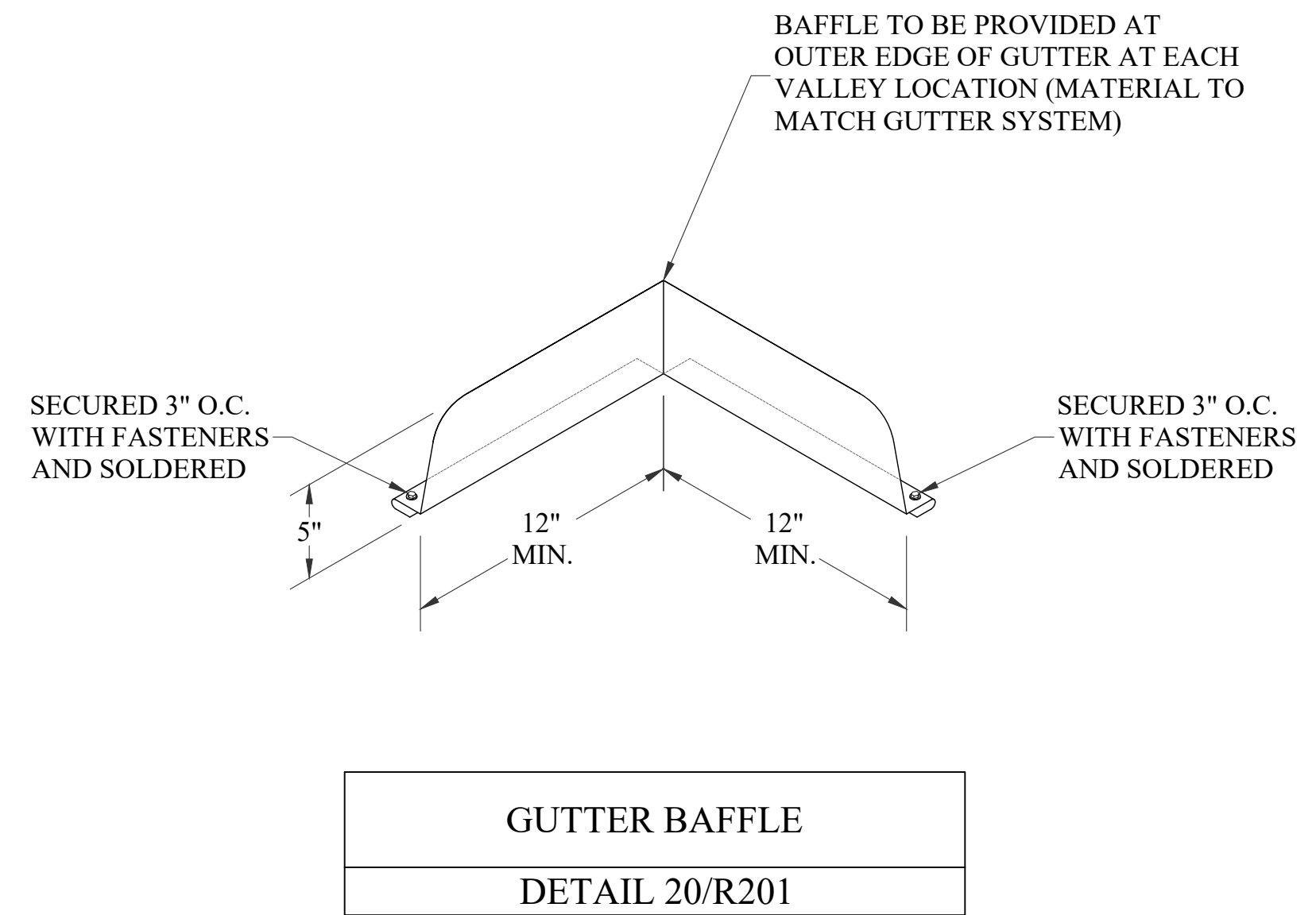


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5

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pazdan
smith
ARCHITECTURE

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BUILDING ENVELOPE
CONSULTANTS, LLC

SEALS

Christopher T. Wailes
IBEC
0328
IBEC

SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL
CLASSROOM ADDITION
SPARTANBURG, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

100% CONSTRUCTION
DOCUMENTS
PRINCIPAL IN CHARGE:
PROJECT ARCHITECT:
DRAWN BY:

12/20/2021
DIL
DIL
PD

SHEET TITLE:
DETAILS

SHEET NO.
PROJ. NO.
021352

R201

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GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING ALL WORK DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL OSHA REGULATIONS ON THE PROJECT SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS SHOWN AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION AND CONSTRUCTION.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR TO PERFORM THE CONSTRUCTION WORK IN ACCORDANCE WITH DRAWINGS. THE COST OF ANY TESTS OR WORK REQUIRED BECAUSE OF CONTRACTOR'S FAILURE TO PERFORM IN ACCORDANCE WITH THE DRAWINGS SHALL BE BORNE BY THE CONTRACTOR.
- CONTRACTOR SHALL REFER TO OTHER DISCIPLINE'S DRAWINGS AND VISIT SITE TO OBSERVE (E) CONSTRUCTION AND AS-BUILT CONDITIONS. SURVEY PROJECT SITE TO LOCATE UNDERGROUND ITEMS & UTILITIES. REMOVE / RELOCATE EXISTING ITEMS IF REQUIRED FOR NEW CONSTRUCTION. COORDINATE ANY DISRUPTION OF SERVICES WITH OWNER.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL AND SITE PLAN DRAWINGS TO COORDINATE ALL DIMENSIONS AND ELEVATIONS RELATED TO WORK SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH THE FABRICATOR. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE ALL ROOF, FLOOR, AND WALL OPENINGS WITH STRUCTURAL, ARCHITECTURAL, AND MECHANICAL DRAWINGS.
- ALL MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, CURRENT EDITION.
- REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION, OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, UNLESS SPECIFICALLY STATED OTHERWISE.
- BOTH BAILEY AND SON ENGINEERING, INC. AND THE ENGINEER WHOSE PROFESSIONAL SEAL IS AFFIXED TO THESE CONTRACT DRAWINGS DISCLAIM ANY IMPLIED WARRANTIES OF ANY KIND WHATSOEVER INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTY OF FITNESS OF THESE DRAWINGS AND/OR SPECIFICATIONS.
- THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION. DRAWINGS SHALL BEAR THE CONTRACTOR'S APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR DIMENSIONS, QUANTITY, QUALITY, AND COORDINATION WITH ALL DISCIPLINES. ELECTRONIC TRANSFER OF CAD FILES TO AID THE CONTRACTOR OR FABRICATOR IS NOT RECOMMENDED BUT AUTOCAD DWG. FILES ARE AVAILABLE UPON REQUEST OF FULLY COMPLETED CASE DOCUMENT 11 AND A FEE OF \$50.00 FOR EACH DIFFERENT DRAWING SHEET REQUESTED.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN CASE OF DISCREPANCIES, NOTIFY THE ENGINEER FOR INTERPRETATION.
- THE REHABILITATION OF AN EXISTING STRUCTURE REQUIRES ASSUMPTIONS TO BE MADE REGARDING EXISTING CONDITIONS. THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT ADDITIONAL COST OR WITHOUT DESTROYING OTHERWISE SERVICEABLE PORTIONS OF THE STRUCTURE. THE ENGINEER SHALL NOT BE LIABLE FOR ANY COST ARISING FROM THE DISCOVERY OF UNKNOWN CONDITIONS IN THE EXISTING STRUCTURE.
- THE DETAILER SHALL WORK WITH THE STRUCTURAL AND ARCHITECTURAL DOCUMENTS WHILE PREPARING SHOP DRAWINGS. THE DETAILER SHALL REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN. IF THE DETAILER ELECTS TO SCALE THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN, THE DETAILER SHALL SUBMIT SHOP DRAWINGS THAT REQUEST ARCHITECTURAL VERIFICATION OF SCALED DIMENSIONS WHEN SUBMITTED FOR APPROVAL.
- WALL, DOOR, WINDOW LOCATIONS, AND LIMITS OF SLAB ON GRADE EDGES, RECESSED, DEPRESSED AND SLOPED AREAS, AND LIMITS OF ROOF & FLOOR DECK (EDGES & OPENINGS) ARE PRIMARILY THE RESPONSIBILITY OF THE ARCHITECT. CONTRACTOR SHALL ESTABLISH OR DETERMINE SUCH INFORMATION BASED ON ARCHITECTURAL DOCUMENTS PRIOR TO ANY FABRICATION OR CONSTRUCTION OF CONCRETE OR STEEL.

DESIGN LOADS AND CRITERIA:

INTERNATIONAL BUILDING CODE, 2018 EDITION

ROOF DEAD LOAD: 20 psf
ROOF LIVE LOAD: 20 psf W/ LIVE LOAD REDUCTION AS ALLOWABLE BY CODE

SNOW LOADS:
GROUND SNOW LOAD, Pg = 10 psf
FLAT ROOF SNOW LOAD, Pf = 7.7 psf
EXPOSURE FACTOR, Ce = 1.00
IMPORTANCE FACTOR, Is = 1.10
THERMAL FACTOR, Ct = 1.00

WIND LOAD:
ULTIMATE WIND SPEED (3-SEC. GUST) = 116 MPH
NOMINAL WIND SPEED (3-SEC. GUST) = 89.9 MPH
WIND IMPORTANCE FACTOR, Iw = 1
RISK CATEGORY: III
WIND EXPOSURE: B
COMPONENTS AND CLADDING: PER ASCE 7-16, CHAPTER 30, SECT. 30.4
WITH APPLICABLE ADJUSTMENT FACTORS
INTERNAL PRESSURE COEFFICIENT: GCpi = ±0.18 <ASCE 7-16, TABLE 28.13-1>

SEISMIC DESIGN DATA:
RISK CATEGORY: II
IMPORTANCE FACTOR, Ie = 1.25
SOIL SITE CLASS: D
HAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss = 0.258 g, S1 = 0.009 g
SPECTRAL RESPONSE COEFFICIENTS: Sds = 0.274 g, Sd1 = 0.144 g
SEISMIC DESIGN CATEGORY: C
DESIGN BASE SHEAR:
V = Csw = 4.2 K @ FLAT ROOF AREA & 26.1 K @ PITCHED ROOF AREA.
BASIC SEISMIC-FORCE-RESISTING SYSTEM(S):
STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.
CFS FLAT STRAP X-BRACES & CFS SHEAR WALL.
SEISMIC RESPONSE COEFFICIENT(S):
Ca = 0.114
RESPONSE MODIFICATION FACTORS:
R (NORTH/SOUTH) = 3
R (EAST/WEST) = 3
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

FOUNDATION NOTES:

- FOUNDATIONS ARE DESIGNED FOR 3000 PSF ALLOWABLE SOIL BEARING PRESSURE AND A SOIL SUBGRADE MODULUS (K) OF 150 PCL. CONTRACTOR SHALL VERIFY ADEQUACY OF FOOTING AND SLAB SUBGRADE TO SUPPORT THIS LOADING. EXCAVATE ALL SOIL UNSUITABLE FOR FOUNDATION OR SLAB SUPPORT AS DETERMINED BY A GEOTECHNICAL ENGINEER.
- FILL UNDER BUILDING SLABS TO BE COMPACTED TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698), WITH THE UPPERMOST 12 INCHES COMPACTED TO 98% OF THE SAME SPECIFICATION. MOISTURE CONTENT OF THE FILL, WHILE IT IS BEING COMPACTED, SHALL BE WITHIN 3% OF THE STANDARD PROCTOR OPTIMUM MOISTURE CONTENT.
- A 4" LAYER OF CRUSHED STONE SHALL BE PLACED BENEATH THE SLAB ON GRADE. THE CRUSHED STONE SHOULD CONSIST OF MACADAM BASE COURSE COMPACTED TO AT LEAST 100% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY.
- OWNER MAY RETAIN AN INDEPENDENT GEOTECHNICAL ENGINEER FOR TESTING COMPACTION AND INSPECTIONS OF ALL FOOTING AND SLAB SUBGRADE. TEST AND INSPECTION RESULTS SHALL BE REPORTED IN WRITING TO THE ENGINEER AND CONTRACTOR WITHIN 24 HOURS AFTER TESTS ARE MADE. THE COST OF ANY RETESTS OR ADDITIONAL WORK REQUIRED DUE TO IMPROPERLY COMPACTED FILL SHALL BE BORNE BY THE CONTRACTOR.
- THE FOUNDATION IS DESIGNED AS RECOMMENDED BY S&ME REPORT DATED 11.05.2021. THE ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD CONTRARY TO THOSE ASSUMED FOR DESIGN.
- SUBGRADE MATERIALS AND THEIR INSTALLATION SHALL BE AS RECOMMENDED IN THE GEOTECHNICAL REPORT.
- THE CONTRACTOR SHALL RETAIN A COPY OF THE SUBSURFACE REPORT ON PROJECT SITE AND SHALL FOLLOW ALL CONSTRUCTION AND FOUNDATION RECOMMENDATIONS OR PROCEDURES THEREIN. RECOMMENDATIONS MADE IN THE REPORT SHALL BE CONSTRUED AS PROJECT SPECIFICATIONS FOR SITE PREPARATION AND FOUNDATION CONSTRUCTION.

CONCRETE MASONRY NOTES:

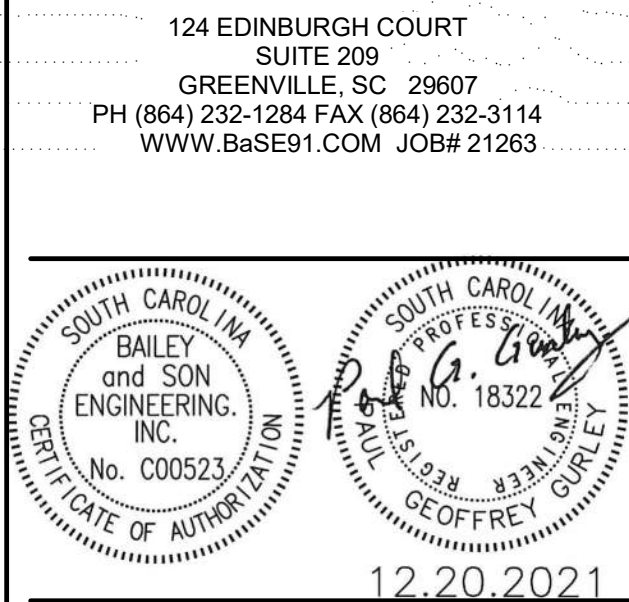
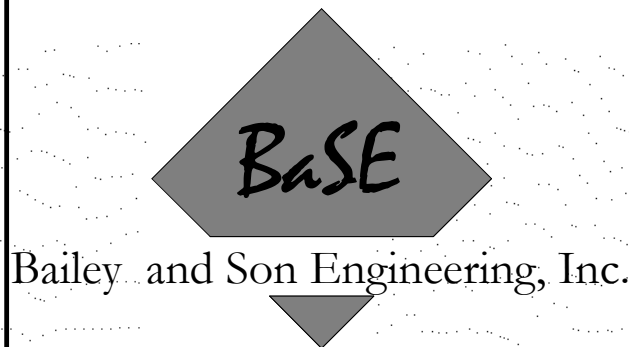
- ALL MASONRY WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE ACI 530. ALL HOLLOW CONCRETE BLOCK SHALL BE LIGHTWEIGHT (105 LBS/FT. MAX.) AND SHALL MEET THE REQUIREMENTS OF ASTM C90, TYPE II, GRADE N. (fm = 1500 PSI).
- MORTAR SHALL MEET ASTM C270 FOR TYPE S MORTAR.
- FILL ALL MASONRY CELLS AND BOND BEAMS CONTAINING REINFORCING BARS WITH REINFORCED MASONRY GROUT. (RMG). MEETING REQUIREMENTS OF ASTM C476. AND WITH A MIN. 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI.
- HORIZONTAL JOINT REINFORCING SHALL BE TRUSS TYPE AND SHALL BE HOT-DIP GALVANIZED. LOCATE JOINT REINFORCING AS FOLLOWS:
 - AT 8" ON CENTER IN WALLS BELOW SLAB ON GRADE AND IN RETAINING WALLS.
 - AT 16" ON CENTER IN ALL OTHER WALLS.
- REBAR POSITIONERS (HOHMANN & BARNARD RB-8) OR EQUAL AT REINFORCED CELLS ARE RECOMMENDED.
- PROVIDE REINFORCED MASONRY LINTELS AT ALL WALL OPENINGS WIDER THAN 16", UNLESS NOTED OTHERWISE. FILL JAMB CELLS UP TO LINTEL ELEVATION BEFORE LINTEL BLOCKS ARE PLACED.
- BLOCK SHALL BE PLACED IN RUNNING BOND. JOINTS TO BE 3/8"; TOOL ALL JOINTS CONCAVE.
- ALL CONTINUOUS REINFORCING BARS SHALL BE TURNED AND LAPPED AT ALL CORNERS AND INTERSECTIONS OF BOND BEAMS. 8" BOND BEAMS SHALL HAVE A MINIMUM OF TWO #5 BARS, AND 12" BOND BEAMS SHALL HAVE A MINIMUM OF TWO #5 BARS. BOND BEAM SHALL HAVE A 24" MINIMUM BEARING AT EACH END.
- LOCATE CONTROL JOINTS AND EXPANSION JOINTS AS RECOMMENDED BY THE NMA (40 FEET MAXIMUM SPACING) AND AS APPROVED BY THE ARCHITECT. DISCONTINUE BOND BEAM REINFORCING AT CONTROL JOINTS EXCEPT FOR BOND BEAMS AT THE PLANE OF A ROOF, A FLOOR, OR AT THE TOP OF THE WALL.
- VERTICAL WALL REINFORCING TO BE SPICED WITH THE FOLLOWING MINIMUM LAPS, OR APPROVED WELDED OR MECHANICAL SPLICE:
FOR 8" CMU:
#3 - 18" #4 - 24" #5 - 30" #6 - 40" #7 - 54" #8 - 80"
FOR 12" CMU:
#3 - 18" #4 - 24" #5 - 30" #6 - 40" #7 - 48" #8 - 62"
WHERE INTERFERENCE PRESENTS A CONTINUOUS RUN OF WALL REINFORCING, OFFSET THE MINIMUM DISTANCE REQUIRED TO BY-PASS THE INTERFERENCE, LAP AS SPECIFIED, AND EXTEND SPLICE BAR INTO TOP OF WALL.
- UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING MINIMUM VERTICAL WALL REINFORCEMENT: A #5 SPACED AT 48" MAX. & A #5 ON EACH SIDE OF WALL OPENINGS AND CONTROL JOINTS. AT ENDS OF WALLS, AND AT CORNERS, CONTINUE VERTICAL REINFORCING THROUGH INTERMEDIATE LEVEL BOND BEAMS AND EXTEND INTO BOND BEAM AT TOP OF WALL.
- UNLESS NOTED OTHERWISE, PROVIDE BOND BEAMS IN THE FOLLOWING LOCATIONS:
 - ROOF PLANES.
 - WITHIN 8" OF THE TOP COURSE OF MASONRY IN ALL WALLS.
 - AT THE TOP OF WALL OPENINGS.
- HOLES FOR SLEEVE ANCHORS MUST BE DRILLED WITH A ROTARY DRILL. DO NOT USE HAMMER DRILL. ANCHORS SHALL BE EMBEDDED IN FILLED CELLS WHERE POSSIBLE.
- IN ADDITION TO THE ABOVE, BOND BEAMS SHALL BE BUILT INTEGRALLY AT WALL INTERSECTIONS PER DETAIL 77777, AND MULTI- COURSE BOND BEAMS SHALL BE CONSTRUCTED AND GROUTED MONOLITHICALLY IN ONE SINGLE LIFT.
- CONSOLIDATION OF GROUT FOR LIFTS GREATER THAN 12" SHALL BE BY MECHANICAL VIBRATION ONLY. RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.
- PROTECT ALL CMU TOP OF WALLS, PROJECTIONS, AND SILLS BY COVERING WITH WATERPROOF SHEETING AT THE END OF EACH DAY'S WORK OR WHEN CONSTRUCTION IS NOT IN PROGRESS. FOR SINGLE WYTHE WALLS, THE COVER SHALL EXTEND A MINIMUM OF 24 INCHES DOWN BOTH SIDES OF THE WALL AND BE SECURED IN PLACE. FOR MULTIWYTHE WALLS WHERE ONE WYTHE IS COMPLETED IN ADVANCE OF THE OTHER WYTHE, SECURE COVER A MINIMUM OF 24 INCHES DOWN FACE OF WALL SO THAT CAVITY IS COVERED AND PROTECTED. HOLD COVER IN PLACE.

CONCRETE AND REINFORCING NOTES:

- ALL CONCRETE WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ACI 318, INCLUDING HOT WEATHER CONCRETING PROCEDURES IN ACI 305 AND COLD WEATHER CONCRETING PROCEDURES IN ACI 306.
- MATERIALS SHALL MEET THE FOLLOWING REQUIREMENTS, UNLESS NOTED OTHERWISE:
FOUNDATION CONCRETE.....3000 PSI*
SLAB ON GRADE CONCRETE.....3000 PSI*
FOUNDATION WALLS.....3000 PSI*
- PROVIDE 6% AIR ENTRAINING IN CONCRETE EXPOSED TO WEATHER.
* MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
* SLUMP FOR FOOTINGS TO BE 2 TO 4 INCHES.
REINFORCING BARS.....ASTM A615, GRADE 60
WELDABLE REINFORCING BARS.....ASTM A706, GRADE 60
ANCHOR BOLTS, SLEEVES, AND OTHER EMBEDDED STEEL.....ASTM A36
WELDED WIRE FABRIC.....ASTM A1064
CONCRETE AGGREGATE.....ASTM C33
STRUCTURAL SYNTHETIC MACRO FIBER REINFORCEMENT.....FOR TA-FERRO BY FORTA CORPORATION (DOSAGE RATE = 3 LBS./CY)
- CONCRETE FINISHES DETERMINED BY ARCHITECT. CURING COMPOUND SHALL MEET ASTM C1315 WITH A MIN. OF 25% SOLIDS CONTENT BY VOLUME.
- ANCHOR BOLTS TO BE LOCATED WITH A TOLERANCE OF 1/8 INCH.
- ALL CONTINUOUS REINFORCING BARS SHALL BE TURNED AND LAPPED AT ALL CORNERS AND INTERSECTIONS OF WALLS AND FOUNDATIONS. USE MINIMUM TEMPERATURE REINFORCING AS CALLED FOR BY ACI 318 WHERE REINFORCING IS NOT SHOWN.
- ALL REINFORCING SPLICES SHALL BE CLASS "B" PER ACI 318, UNLESS NOTED OTHERWISE.
- C.J. (AS INDICATED IN PLAN) DENOTES CONSTRUCTION OR CONTROL JOINT (CONTRACTOR'S OPTION U.N.O.), "SAWED JOINT" (AS INDICATED IN PLAN) DENOTES JOINT MUST BE SAWED AS DICTATED BY DESIGN. FOR A SAW JOINT, SAW CUT WHERE INDICATED, TO A DEPTH OF 1/4 THICKNESS OF SLAB. JOINT SHALL BE SOFT CUT AS SOON AS POSSIBLE AFTER FINISHING OPERATIONS WITHOUT CAUSING RAVELING OF THE SURFACE. FOR A CONSTRUCTION JOINT, THICKEN THE SLAB TO 8" FOR AT LEAST 16" ON EACH SIDE OF THE JOINT AND PROVIDE 1/2" DOWELS AT 16" THROUGH JOINT. SEE SECTIONS & DETAILS FOR CLARIFICATION. JOINT SPACING FOR A 4" THICK SLAB ON GRADE SHALL BE 10'-0" O.C. WITH 12'-0" MAXIMUM RECOMMENDED. GC SHALL PROVIDE CONSTRUCTION JOINTS AT A MAXIMUM OF 125'-0" ON CENTER OR LESS.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SLAB SLOPES, DEPRESSIONS, ETC.
- CONCRETE TEST CYLINDERS AND SLUMP TESTS ARE TO BE MADE FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF, OR FOR EACH 5,000 SQUARE FOOT OF SURFACE AREA PLACED. TEST RESULTS SHALL BE REPORTED IN WRITING TO THE ENGINEER WITHIN 48 HOURS AFTER TESTS ARE MADE.
- CONCRETE FLOOR SLABS ON GRADE MAY HAVE A MID-RANGE WATER REDUCER (MRWR). NOMINAL SLUMP FOR SLAB SHALL BE 3" TO 4" BEFORE ADDING MRWR, AND 6" TO 8" AFTER ADDING MRWR.
- FLOOR SLABS ON GRADE SHALL MEET A SPECIFIED OVERALL FLOOR FLATNESS VALUE OF 25 AND A MINIMUM LOCAL FLOOR FLATNESS VALUE OF 17. FLOOR SLABS ON GRADE SHALL MEET A SPECIFIED OVERALL FLOOR LEVELNESS VALUE OF 20 AND A MINIMUM LOCAL FLOOR LEVELNESS VALUE OF 15 IN ACCORDANCE WITH ACI 302, UNLESS NOTED OTHERWISE.
- LIMIT USE OF FLY ASH TO NOT EXCEED 20% OF CEMENTITIOUS MATERIAL BY WEIGHT (CEMENT + FLY ASH).

STRUCTURAL STEEL NOTES:

- DESIGN, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION, UNLESS NOTED OTHERWISE.
- MATERIALS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS:
WIDE FLANGE STRUCTURAL STEEL.....ASTM A992, GRADE 50
STRUCTURAL STEEL.....ASTM A36
STRUCTURAL TUBING.....ASTM A500, GRADE C, Fy (MIN) = 50 KSI
STRUCTURAL PIPE.....ASTM A500, GRADE C, Fy (MIN) = 46 KSI
BOLTS.....ASTM A325-N
WELDING ELECTRODES.....AWS-A5.1, E70XX LOW HYDROGEN (OR EQUAL)
STEEL PIPE.....ASTM A53, TYPE E OR S, GRADE B
- ALL STRUCTURAL WELDING SHALL BE MADE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS SPECIFICATIONS D1.1. MINIMUM SIZE OF FILLET WELD SHALL BE 1/16" SMALLER THAN MATERIAL THICKNESS OF THICKER PART JOINED, UNLESS NOTED OTHERWISE. ELECTRODE STORAGE FOR LOW-HYDROGEN ELECTRODES SHALL BE STORED @ 250° WHEN EXPOSURE EXCEEDS REQUIREMENTS OF COLUMN A, TABLE 51 OF AWS. WELD CLEANING AND PAINTING OF COMPLETED WELDS SHALL BE IN ACCORDANCE WITH AWS.
- UNLESS NOTED OTHERWISE ON THE PLANS, CONNECTIONS SHALL DEVELOP AT LEAST ONE-HALF OF THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE TABLES OF THE AISC MANUAL FOR THE GIVEN SECTION AND SPAN OF THE BEAM IN QUESTION. IN NO CASE, HOWEVER, SHALL THE LENGTH OF FRAMED CONNECTIONS BE LESS THAN ONE-HALF THE "T" DIMENSION OF THE BEAM WEB. CONNECTIONS INDICATED ON THE PLANS BY "" SHALL CONTAIN THE MAXIMUM NUMBER OF ROWS OF BOLTS, AT 3" PITCH, THAT CAN BE FIT IN A CLIP ANGLE WHOSE LENGTH EQUALS THE "T" DIMENSION OF THE BEAM.
- ALL BOLTED CONNECTIONS SHALL BE BEARING-TYPE USING 3/4" DIAMETER AND BROUGHT TO A SNUG TIGHT CONDITION. A325-N BOLTS WITH THREADS INCLUDED IN SHEAR PLANE, UNLESS NOTED OTHERWISE.
- SHOP CONNECTIONS MAY BE BOLTED OR WELDED.
- FIELD CONNECTIONS SHALL BE BOLTED UNLESS NOTED OTHERWISE ON DRAWINGS.
- ALL BEAMS SHALL FRAME INTO COLUMN (OR POST) FLANGES OR WEBS AND NOT PLACED ON TOP OF COLUMN CAP PLATES UNLESS INDICATED ON FRAMING PLAN AS A CONTINUOUS BEAM. IF A COLUMN CAP PLATE IS REQUIRED, THE ELEVATION FOR THE TOP OF COLUMN CAP PLATE SHALL MATCH TOP OF BEAM FRAMING TO THE COLUMN (OR POST), UNLESS NOTED OTHERWISE.
- SURFACE PREPARATIONS FOR STRUCTURAL STEEL SUBJECT TO EXTERIOR OR CORROSIVE ENVIRONMENTAL CONDITIONS SHALL BE CLEANED IN ACCORDANCE SSPC-SP6 (COMMERCIAL BLAST CLEANING) AND SHOP PAINTED WITH ONE OF THE FOLLOWING SYSTEMS (OR APPROVED EQUAL):
OPTION 1: SHOP PRIME WITH SHERWIN-WILLIAMS MACROPOXY 646 APPLIED AT 5.0-10.0 DFT W/ TOP COAT OF SHERWIN-WILLIAMS ACROLON 218 APPLIED AT 3.0-6.0 DFT.
OPTION 2: SHOP PRIME WITH TNE MEC SERIES 27FC TYPPOXY APPLIED AT 3.0-5.0 DFT W/ TOP COAT OF TNE MEC SERIES 73 EDURA-SHIELD AT 2.5-3.5 DFT.
OPTION 3: HOT-DIPPED GALVANIZED TO G-90 COATING
- APPLY COATING IN STRICT CONFORMANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. COORDINATE TOP COAT COLOR WITH OWNER'S SPECIFICATIONS.
- SURFACE PREPARATIONS FOR STRUCTURAL STEEL NOT SUBJECT TO EXTERIOR ENVIRONMENTAL CONDITIONS SHALL BE CLEANED IN ACCORDANCE WITH SSPC-SP6 (COMMERCIAL BLAST CLEANING). PRIME STEEL WITH STANDARD SHOP PRIMER AT 2 MILS DFT. SHOP PRIMER SHALL BE COMPATIBLE WITH OVERCOAT.
- PROVIDE MISCELLANEOUS STEEL & SUPPORT ANGLES AROUND COLUMN AND OTHER FLOOR AND ROOF PENETRATIONS AND OPENINGS REQUIRED TO SUPPORT ENDS AND EDGES OF METAL DECK.
- PROVIDE 3" CONCRETE COVER OVER ALL STEEL BELOW GRADE, EXPOSED TO WEATHER, OR SUBJECT TO MOISTURE.
- WHEN STRUCTURAL STEEL SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC, CHAPTER 17 APPLY,
 - THE CONTRACTOR SHALL PROVIDE THE STEEL INSPECTOR:
 - WELDER QUALIFICATION CERTIFICATES (DATED WITHIN THE PAST 48 MONTHS)
 - WELD PROCEDURES FOR WHICH WELDERS ARE CERTIFIED
 - ELECTRODE TYPE TO BE USED FOR STRUCTURAL STEEL
 - ELECTRODE TYPE TO BE USED FOR METAL DECKING.
- ALL PJP AND CJP WELDS SHALL BE CONTINUOUSLY MONITORED DURING WELDING.
C. ALL MULTIPASS FILLET WELDS SHALL BE CONTINUOUSLY MONITORED DURING WELDING.
D. SINGLE-PASS FILLET WELDS GREATER THAN 5/16" SHALL BE CONTINUOUSLY MONITORED DURING WELDING.
E. INSTALLATION OF HIGH-STRENGTH BOLTS SHALL BE PERIODICALLY INSPECTED DURING INSTALLATION.
F. VERIFICATION OF HIGH STRENGTH BOLTS WILL BE REQUIRED.
G. BEARING-TYPE CONNECTIONS SHALL REQUIRE PERIODIC INSPECTION.
H. SLIP-CRITICAL CONNECTIONS SHALL REQUIRE PERIODIC INSPECTION WHEN TURN-OF-NUT MATCHMARKING IS USED.
I. SLIP CRITICAL CONNECTIONS SHALL BE CONTINUOUSLY MONITORED WHEN TURN-OF-NUT MATCHMARKING IS NOT USED.
- PIPING GREATER THAN 4"Ø SHALL BE SUPPORTED @ 10'-0" O.C. MAX. AND SHALL BE CONSIDERED IN THE DESIGN.
- THE G.C. MAY AT HIS OPTION, REQUEST TO USE A FLUX CORE ARC WELDING (FCAW) PROCESS OR A METAL INERT GAS (MIG) WELDING PROCESS BY SATISFYING THE FOLLOWING REQUIREMENTS:
 - SUBMIT WRITTEN WELDING PROCEDURES FOR THE WELDING PROCESS REQUESTED. ADDITIONALLY, THESE PROCEDURES ARE TO DESCRIBE THE QUALITY ASSURANCE/QUALITY CONTROL MEASURES TO BE TAKEN TO ENSURE COMPLIANCE WITH AWS D1.1 AND THESE CONSTRUCTION DOCUMENTS.
 - PROVIDE WELDER QUALIFICATIONS PER NOTE 3, ABOVE.
 - PROVIDE A CONTINUOUS FEED WIRE THAT WILL FORM WELDS OF EQUAL OR GREATER STRENGTH THAN THE E70XX LOW HYDROGEN ELECTRODES LISTED IN NOTE 2, ABOVE.
- STEEL DECK NOTES:
 - DESIGN, FABRICATION, AND ERECTION OF ALL STEEL DECK SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE.
 - ROOF DECK TO BE 1 1/2" DEEP, 22 GAGE WIDE RIB (TYPE B) GALVANIZED WITH G-90 COATING.
 - ROOF DECK TO BE ATTACHED WITH A 36/5 FASTENING PATTERN AT INTERIOR SUPPORTS OF DECK PANELS, WITH A 36/7 PATTERN AT END LAPS, AND 6" AT PERIMETER OF ROOF. FASTENING SHALL BE MADE WITH POWER DRIVEN SCREWS APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. INSTALL (1) NO. 10 SIDE LAP SCREWS BETWEEN ALL DECK SUPPORTS SP. @ 16" O.C. INSTALL (2) NO. 10 SIDE LAP SCREWS BETWEEN ALL CFS TRUSSES SP. @ 4'-0" O.C.
 - ALL WELDS ARE TO BE MADE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS, D1.3.
 - GC SHALL REFER TO THE MECHANICAL, PIPING AND ARCHITECTURAL DRAWINGS FOR EXHAUST DUCT AND OTHER ROOF PENETRATIONS THAT REQUIRE DECK SUPPORT ANGLES. PROVIDE MISCELLANEOUS STEEL OR SUPPORT ANGLES AROUND COLUMNS AND OTHER FLOOR AND ROOF PENETRATIONS AND OPENINGS TO SUPPORT THE ENDS AND EDGES OF METAL DECK.
 - ANY DECK OPENING WHOSE WIDTH EXCEEDS 12" OR (2) CONSECUTIVE DECK RIBS SHALL HAVE ADDITIONAL SUPPORT ANGLE FRAMING PER THE TYPICAL DECK SUPPORT ANGLE FRAMING DETAIL.
 - GENERAL CONTRACTOR SHALL COORDINATE DECK END LAPS WITH ROOF FRAMING PLAN AND FINAL FRAMING LAYOUT.



SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL CLASSROOM
ADDITION AND INTERIOR RENOVATION
SPARTANBURG, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
0	12/20/2021	100% CONSTRUCTION DOCUMENTS	PGG

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: PGG
DRAWN BY: JSD

SHEET TITLE:
PROJECT NOTES &
DESIGN CRITERIA -
SH. 1

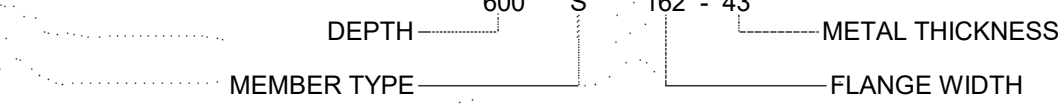
SHEET NO. PROJ. NO. 21263

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COLD-FORMED STEEL (CFS) DESIGNATION:

1. COLD-FORMED METAL FRAMING DIMENSIONS SHALL MEET OR EXCEED THE INDUSTRY STANDARDS PROPOSED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).



A. THE DEPTH OF THE MEMBER IS INDICATED TO THE SECOND DECIMAL PLACE WITHOUT THE USE OF A DECIMAL POINT: 362 = 3.62", 600 = 6.00", 800 = 8.00", 1000 = 10.00"

B. THE MEMBER TYPE REPRESENTS THE SHAPE OF THE MEMBER. THERE ARE FOUR STANDARD SHAPES: S = "C" SHAPED MEMBER, T = TRACK, F = FURRING OR HAT CHANNEL, U = "U" OR BRIDGING CHANNEL

C. THE FLANGE WIDTH OF THE MEMBER IS INDICATED TO THE SECOND DECIMAL PLACE WITHOUT THE USE OF A DECIMAL POINT: 162 = 1.62", 200 = 2.00", 250 = 2.50"

D. THE METAL THICKNESS IS IN THE MINIMUM UNCOATED METAL THICKNESS EXPRESSED IN MILS (THOUSANDTHS OF AN INCH). THESE THICKNESSES CORRESPOND TO THE FOLLOWING GAUGES: -18 (25 GA.), -27 (22 GA.), -30 (20 GA.), -33 (20 GA. STRUCTURAL), -43 (18 GA.), -54 (16 GA.), -68 (14 GA.), -97 (12 GA.). THESE MIL THICKNESSES ARE 5% LESS THAN THE DESIGN THICKNESS AS PERMITTED PER THE AISI SPECIFICATION.

2. LOAD-BEARING STUDS, JOISTS, AND RAFTERS SHALL BE GALVANIZED 50ksi MATERIAL AND SHALL BE EQUAL TO, OR LARGER, THAN THE CFS FRAMING INDICATED ON THE DRAWINGS AND SHALL BE 16ga. MIN. U.N.O.

LINTEL SECTIONS: GALVANIZED DOUBLE BOXED JOISTS, DEPTH AND GAGE AS SHOWN ON DRAWINGS, WITH 16 GAGE CHANNEL RUNNER ATTACHED TO TOP AND BOTTOM. MINIMUM STRUCTURAL PROPERTIES FOR EACH STUD USED FOR LINTEL SHALL BE EQUAL TO THAT INDICATED.

3. COLD-FORMED METAL FRAMING CONTRACTOR SHALL DESIGN CANOPY SUPPORT DETAILS AND FRAMING, INTERIOR WALL FRAMING & HEADERS, AND ALL FRAMING CONNECTIONS AND ELEMENTS NOT SHOWN ON CONTRACT DOCUMENTS. SUBMIT P.E. SEALED DESIGN CALCULATIONS, SKETCHES, DETAILS, ETC. SHOWING METAL FRAMING STUDS, HEADERS, LINTELS, LOCATION, LAYOUT, SPACING SIZES, THICKNESSES AND TYPES OF COLD-FORMED FASTENERS, SUPPLEMENTAL FRAMING, STRAPPING, STABILIZING BRACING AT TOP OF INTERIOR WALLS, SPLICES, ACCESSORIES, CONNECTION DETAILS AND ATTACHMENTS TO OTHER COMPONENTS, UNLESS SPECIFICALLY SHOWN ON CONTRACT DOCUMENTS.

4. LOCATE WALL STUDS DIRECTLY BELOW ALL RAFTERS OR JOISTS. PROVIDE A MINIMUM OF TWO (2) STUDS BELOW ALL GIRDER TRUSS BEARING LOCATIONS OR BEAMS, U.N.O.

5. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."

6. ALL FRAMING MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A653, GRADE A (33 KSI MIN. YIELD) FOR 18 GAGE AND LIGHTER AND ASTM A653, GRADE D (50 KSI MIN. YIELD) FOR 16 GAGE AND HEAVIER. CHANNEL RUNNERS MAY BE 33 KSI FOR ANY GAGE. STRUCTURAL MEMBERS SHALL CONFORM TO ASTM C955.

7. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDED. SCREWS SHALL BE SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. WELDS SHALL BE TOUCHED UP WITH ZINC-RICH PAINT.

8. RUNNERS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE.

9. COMPLETE, UNIFORM, AND LEVEL BEARING SUPPORT SHALL BE PROVIDED FOR BOTTOM RUNNER.

10. STUDS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO BOTH FLANGES AT TOP AND BOTTOM RUNNERS.

11. EXTERIOR AND BEARING WALLS SHALL HAVE MID-HEIGHT BRIDGING OR BRIDGING SPACED AT 60" MAX.

12. ISOLATE NON-BEARING FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF VERTICAL LOADS WHILE PROVIDING LATERAL SUPPORT. INSTALL VERTICAL SLOTTED TRACKS AND ANCHOR TO BUILDING STRUCTURE.

13. LIMIT LATERAL DEFLECTION OF EXTERIOR WALLS TO L/800 OF THE WALL HEIGHT BACKING BRICK VENEER. LIMIT LATERAL DEFLECTION OF ALL OTHER STRUCTURAL WALLS TO L/240 OF THE WALL HEIGHT.

14. A 1" MINIMUM CLEARANCE SHALL BE MAINTAINED FROM ALL EDGES OF STEEL MEMBERS. A 1" MINIMUM ON CENTER SPACING SHALL BE MAINTAINED BETWEEN ADJACENT FASTENERS.

15. POWDER DRIVEN FASTENERS (PDF) SHALL BE SIMPSON STRONG-TIE PDPA-75 (0.157x3/4") FOR FASTENING TO CONCRETE AND PDPA-S0K (0.157x1/2" KNURLED) FOR FASTENING TO STEEL, OR APPROVED EQUAL. POWDER DRIVEN FASTENERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

16. SELF-DRILLING SCREWS (SDS) SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE, OR APPROVED EQUAL. SCREWS SHALL PENETRATE THROUGH JOINED MATERIALS NOT LESS THAN (3) EXPOSED TREADS. SCREWS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

17. IF WELDED CONNECTIONS ARE REQUIRED, MINIMUM WELD THROAT MUST NOT EXCEED THE BASE STEEL THICKNESS OF THE THINNEST CONNECTED PART UNLESS NOTED OTHERWISE. ALL WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH AWS SPECIFICATIONS. PAINT ALL WELDS WITH A ZINC RICH PAINT.

18. DEFLECTION TRACK SHALL BE 16 GAUGE (MINIMUM) W/ 3" FLANGES SLOTTED 2" LONG x 1/4" WIDE AT 1" CENTERS. MAINTAIN 3/4" TO 1" GAP BETWEEN TOP OF STUD AT TRACK.

19. COVER PLATE PUNCHOUTS IN STUDS/JOISTS WITHIN 4" OF CONNECTION/BEARING TO STRUCTURE WITH 14 GAUGE PLATE. FASTEN COVER PLATE TO STUD WITH #10 SDS IN EACH CORNER AND ALONG EACH EDGE AT 2" CENTERS.

PRE-ENGINEERED COLD FORMED STEEL TRUSSES:

1. ROOF TRUSSES AND FRAMING COMPONENTS SHALL BE JOINED TO ONE ANOTHER BY MEANS OF WELDING OR THROUGH THE USE OF SCREWS AS RECOMMENDED BY THE COMPONENT PROVIDER. CONNECTIONS SHALL BE DESIGNED BY THE TRUSS MANUFACTURER WITH DUE REGARD TO ECCENTRICITY.

2. TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE ALL TRUSSES, CONNECTIONS, TEMPORARY AND PERMANENT BRACING, AND COLD FORMED STEEL COMPONENTS NECESSARY TO PROVIDE THE ROOF SYSTEM AS SHOWN ON THE DRAWINGS. TRUSS MANUFACTURER SHALL HAVE EXPERIENCE IN DESIGN AND FABRICATION OF TRUSS AND FRAMING SYSTEMS SIMILAR IN SCOPE AND DESIGN TO THAT REQUIRED FOR THIS PROJECT.

3. ALL CALCULATIONS AND PROCEDURES PERTAINING TO DESIGN, ANALYSIS, AND COMPUTATION OF SECTION PROPERTIES SHALL BE IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."

4. ALL STRUCTURAL COMPONENTS SHALL BE GALVANIZED WITH A ZINC COATING CONFORMING TO COATING CLASS G-60 AND SHALL BE MANUFACTURED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM A653, GRADE A (33 KSI MIN. YIELD) FOR 18 GAGE AND LIGHTER AND ASTM A653, GRADE D (50 KSI MIN. YIELD) FOR 16 GAGE AND HEAVIER. STRUCTURAL MEMBERS SHALL CONFORM TO ASTM C955.

5. METAL TRUSSES SHALL BE SPACED AT 48" MAX. ENGINEERING DESIGN CONSIDERATIONS ARE THE FABRICATOR'S RESPONSIBILITY. SUBMIT DESIGN ANALYSIS AND REPORTS WITH LOADING, SECTION PROPERTIES, ALLOWABLE STRESSES, STRESS DIAGRAM, CALCULATIONS, AND SIMILAR INFORMATION NEEDED FOR ANALYSIS AND TO INSURE TRUSSES COMPLY WITH SPECIFICATIONS.

6. SUBMIT P.E. SEALED TRUSS ERECTION PLANS, BRACING AND SHOP DRAWINGS FOR EACH TRUSS AND FRAMING COMPONENT SHOWING SHAPES AND DIMENSIONS OF MEMBERS TO BE USED, INCLUDE PITCH, SPAN, CAMBER, AND SPACING FOR EACH MEMBER. SHOW ALL BEARING AND ANCHORAGE DETAILS AND REQUIREMENTS WITH THE TRUSS ERECTION PLAN.

7. SUBMIT P.E. SEALED TRUSS DRAWINGS, CONNECTIONS AND BRACING DIAGRAMS TO THE ENGINEER OF RECORD FOR FINAL APPROVAL AND VERIFICATION CONFORMANCE WITH CONTRACT DOCUMENTS PRIOR TO THE FABRICATION OF TRUSSES.

8. TRUSS MFR. SHALL DESIGN AND SPECIFY TRUSS AND GIRDER TRUSS HOLD DOWN ANCHORS AND THEIR CONNECTIONS TO THE TRUSSES. FASTEN HOLD DOWN ANCHORS TO SUPPORTING STRUCTURE WITH SIMPSON POWDER ACTUATED FASTENERS, SIMPSON TITEN HD ANCHOR, ETC. AS REQ'D TO RESIST UPLIFT VALUES INDICATED ON TRUSS SHOP DRAWINGS.

9. DESIGN, FURNISH, AND INSTALL TEMPORARY AND PERMANENT BRACING AND BRIDGING TO ENABLE ALL TRUSSES TO MAINTAIN PROPER SPACING, PLUMBNESS, AND DESIGN CRITERIA SPECIFIED. PROVIDE ALL SUPPLEMENTAL STRAPPING, BRACING, CLIPS, AND OTHER ACCESSORIES REQUIRED FOR PROPER INSTALLATION.

A. TRUSS MANUFACTURER SHALL PROVIDE BRACING LAYOUT AND DETAILS FOR PERMANENT BRACING REQUIREMENTS. FOLLOW ALL GUIDELINES AND RECOMMENDATIONS FOUND IN CFS DOCUMENT "COLD FORMED STEEL BUILDING COMPONENT SAFETY INFORMATION."

B. BRACING MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE'S SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."

C. ALL BRACING MEMBERS SHALL BE MADE FROM COLD-FORMED STEEL CONFORMING TO ASTM A653 SS GRADE 33 G60, AT A MINIMUM, AND WITH A MINIMUM DESIGN THICKNESS OF 0.0346 INCHES, UNLESS NOTED OTHERWISE.

D. PROFILE OF BRACING MEMBERS SHALL BE AS PROVIDED IN THE MANUFACTURER'S LITERATURE OR IN ACCORDANCE WITH THE CORRESPONDINGLY DESIGNATED SECTION OF THE "PRODUCT TECHNICAL INFORMATION" PUBLISHED BY THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA).

E. ALTERATION OF BRACING MEMBER PROFILE OR SUBSTITUTION FOR THE INDICATED BRACING MEMBER WITH ANOTHER DESIGNATED SECTION SHALL BE PERMITTED ONLY WITH THE WRITTEN CONSENT OF THE TRUSS MANUFACTURER.

F. UNLESS NOTED OTHERWISE, ALL BRACING CONNECTIONS SHALL BE MADE WITH (2) #10 SELF-DRILLING SINGLE SHEAR (SDS) SCREWS.

G. BRACING MEMBERS ARE NOT TO BE USED AS A STEP. STANDING ON MEMBERS IS NOT PERMITTED.

H. TRUSS MFR. SHALL DESIGN & INSTALL BRIDGING BETWEEN ALL TRUSSES (@ BEARING POINTS) WHERE THE HEEL HT. EXCEEDS 8' UNLESS NOTED OTHERWISE ON THESE DRAWINGS. SEE BLOCKING DET. THIS SHEET.

10. TRUSSES SHALL BE DESIGNED FOR WIND LOAD AND DESIGN REFERENCE GIVEN ABOVE AND A TOP CHORD LIVE LOAD OF 20 PSF AND A DEAD LOAD OF 10 PSF. BOTTOM CHORD SHALL BE DESIGNED FOR A 10 PSF DEAD LOAD.

11. ALL TRUSSES SHALL BE DESIGNED AND FABRICATED AS REQUIRED TO LIMIT TOTAL HORIZONTAL MOVEMENT WHEN SUPPORTING DEAD PLUS LIVE LOADS, WITH ONE END FREE TO MOVE. TO A MAXIMUM OF 1". TOP CHORD EXTENSIONS AND CANTILEVERED TRUSSES SHALL BE FABRICATED TO LENGTH INDICATED AND DESIGNED TO LIMIT DEFLECTIONS TO L/360 UNDER FULL LIVE LOAD AND L/240 UNDER DEAD PLUS LIVE LOAD.

12. TRUSS MANUFACTURER SHALL PROVIDE ALL SCISSOR, STEPPED, PIGGYBACK, VALLEY, MONO, HIP & CORNER JACK TRUSSES OR GIRDER TRUSSES NECESSARY TO PROVIDE RIDGE OR VALLEY, BARRELLED, FLAT, OR SLOPED CEILINGS, AND OVERHANGS AS SHOWN ON DRAWINGS, UNO.

13. CFS TRUSS MANUFACTURER SHALL CONSIDER MECHANICAL EQUIPMENT, PIPING, (MECHANICAL & FIRE PROTECTION) AND DUCT WEIGHTS AS SHOWN OR OTHERWISE REFERENCED ON HVAC AND PIPING COORDINATION DRAWINGS. GC TO COORDINATE FINAL EQUIPMENT, PIPING, (MECHANICAL & FIRE PROTECTION) AND DUCT WEIGHTS, CLEARANCE REQUIREMENTS AND LOCATIONS WITH CFS TRUSS MANUFACTURER. THESE REQUIREMENTS SHALL BE CLEARLY SHOWN ON THE CFS TRUSS SHOP DRAWINGS.

14. CFS TRUSS SUBMITTAL PACKAGES THAT DO NOT CLEARLY SHOW THE MAGNITUDE AND LOCATION OF THESE LOADS ON THE ERECTION PLAN SHALL BE REJECTED.

15. PROVIDE A MINIMUM OF (2) STUDS BELOW ALL GIRDER TRUSS BEARING LOCATIONS

16. PIPING GREATER THAN 4"Ø SHALL BE SUPPORTED @ 10'-0" O.C. AND SHALL BE CONSIDERED IN THE TRUSS DESIGN LOADS

SIMPSON EPOXY NOTES:

ADHESIVE ANCHORS SHALL HAVE BEEN QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308 FOR CRACKED AND UNCRACKED CONCRETE. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS. HOLES SHALL BE DRILL AT THE TIME OF INSTALLATION. ACI 308.4 TEMPERATURE CATEGORY 'B' ASSUMED IN DESIGN. PRIOR TO INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS RESISTING SUSTAINED TENSION LOADS, INSTALLERS ARE REQUIRED TO BE CERTIFIED IN ACCORDANCE WITH THE ACI/CES ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM AND MUST BE CONTINUOUSLY INSPECTED. PRE-APPROVED PRODUCTS INCLUDE:

- FOR THREADED ROD & REBAR AS ANCHOR ELEMENTS - SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)
- FOR THREADED ROD & REBAR AS ANCHOR ELEMENTS - SIMPSON STRONG-TIE "AT-XP" (APMO-UES ER-263)
- FOR POST-INSTALLED REBAR DEVELOPMENT AND LAP SPLICES - SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508) - G.C. OPTION FOR 500°F OR WARMER

**HOLES SHALL BE DRILLED USING A DUST EXTRACTION DRILLING SYSTEM CONSISTING OF A HOLLOW DRILL BIT AND VACUUM. PREAPPROVED SYSTEMS: SIMPSON STRONG-TIE SPEED CLEAN DXS (FOR USE WITH SET-3G, AT-XP AND SET-XP)

SUBMITTALS:

1. FURNISH ELECTRONIC COPIES OF ALL SUBMITTALS AND SHOP DRAWINGS TO ENGINEER, ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW OF EACH SUBMITTAL. FABRICATOR SHALL INSURE THAT ALL PLACEMENT AND DETAIL DRAWINGS ARE CHECKED IN-HOUSE PRIOR TO SUBMITTAL. DRAWINGS NOT REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO ENGINEER ARE SUBJECT TO REJECTION. ALL ELECTRONIC SUBMITTALS SHALL INCLUDE THE GENERAL CONTRACTORS REVIEW COMMENTS WHEN THEY ARE TRANSMITTED TO THE ENGINEER.

2. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, QUANTITIES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.

3. SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO:

CONCRETE "READY-MIX" DESIGNS.....YES ☒ NO ☐

UNIT COST OF ALL ITEMS ASSOCIATED WITH FOUNDATION CONSTRUCTION.....YES ☐ NO ☒

CONCRETE COMPRESSION TEST REPORTS.....YES ☐ NO ☐

MASONRY PRODUCT SUBMITTAL.....YES ☐ NO ☐

REINFORCING SHOP DRAWINGS.....YES ☐ NO ☐

STRUCTURAL STEEL SHOP DRAWINGS.....YES ☐ NO ☐

FABRICATION SHOP CONNECTION STANDARDS.....YES ☐ NO ☒

P.E. SEALED CALCULATIONS FOR:
A. FRAMED BEAM CONNECTIONS - AISI 15TH EDITION TABLES 10-1, 10-2, 10-3 (UNLESS NOTED ON DWGS).....YES ☐ NO ☒

B. SEATED BEAM CONNECTIONS.....YES ☐ NO ☒

C. END PLATE SHEAR CONNECTIONS.....YES ☐ NO ☐

D. SINGLE PLATE SHEAR CONNECTIONS.....YES ☐ NO ☒

E. ECCENTRIC CONNECTIONS.....YES ☐ NO ☒

F. CONNECTIONS IN TENSION AND/OR COMPRESSION INCLUDING BRACING, BEAMS, HANGERS, ETC.....YES ☐ NO ☒

G. MOMENT CONNECTIONS.....YES ☐ NO ☒

H. LANDING HANGERS.....YES ☐ NO ☒

I. STAIR CALCULATIONS & SHOP DRAWINGS.....YES ☐ NO ☒

STEEL JOIST SHOP DRAWINGS.....YES ☐ NO ☒

STEEL DECK SHOP DRAWINGS.....YES ☐ NO ☐

PRECAST CONCRETE REQUIREMENTS STIPULATED BY THE PROJECT NOTES.....YES ☐ NO ☒

PREFABRICATED WOOD ROOF TRUSS REQUIREMENTS STIPULATED BY THE PROJECT NOTES.....YES ☐ NO ☒

PRE-ENGINEERED CFS TRUSS REQUIREMENTS STIPULATED BY THE PROJECT NOTES.....YES ☐ NO ☐

PRE-ENGINEERED METAL BUILDING REQUIREMENTS STIPULATED BY THE PROJECT NOTES.....YES ☐ NO ☒

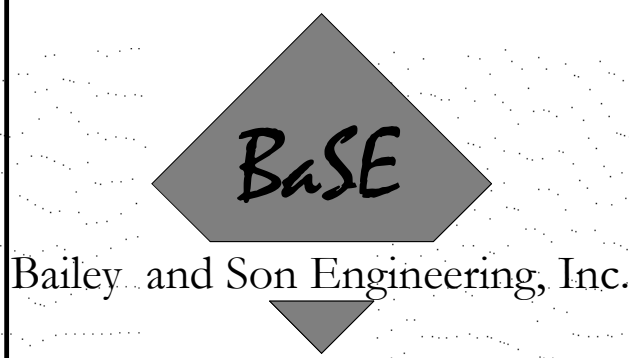
COLD-FORMED METAL FRAMING REQUIREMENTS STIPULATED BY THE PROJECT NOTES (CALCULATIONS AND DRAWINGS).....YES ☐ NO ☐

AWNING AND FOR CANOPY CONNECTIONS (CALCULATIONS AND DRAWINGS).....YES ☐ NO ☒

FCAW OR MIG WELDING PROCESS REQUIREMENTS STIPULATED BY THE PROJECT NOTES.....YES ☐ NO ☐

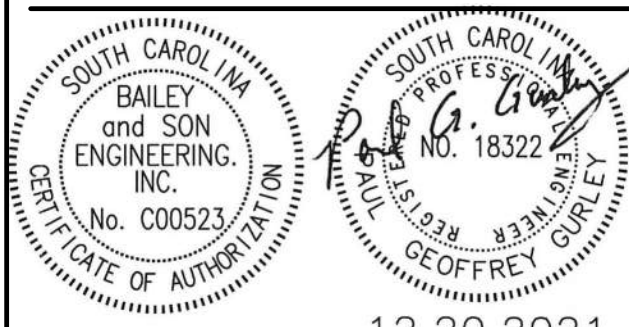
TYPICAL ABBREVIATIONS:

A.R.....ANCHOR ROD
ACI.....AMERICAN CONCRETE INSTITUTE
AISC.....AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI.....AMERICAN IRON AND STEEL INSTITUTE
APA.....AMERICAN PLYWOOD ASSOCIATION
ARCH.....ARCHITECTURAL
AFPA.....AMERICAN FOREST AND PAPER ASSOCIATION
ASCE.....AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM.....AMERICAN SOCIETY FOR TESTING AND MATERIALS
BASE,INC., BAILEY & SON ENGINEERING, INC.
B.C.....BOTTOM CHORD
B.....BOTTOM OF
BLKS.....BLOCKING
B.O.D.....BOTTOM OF DECK
BRG.....BEARING
C.J.....CONTROL JOINT
C.L.....CENTER LINE
CLR.....CLEAR
CMU.....CONCRETE MASONRY UNIT
CONT.....CONTINUOUS
D.B.E.....DECK BEARING ELEVATION
DBL.....DOUBLE
DIA.....DIAMETER
DL.....DEAD LOAD
(E).....EXISTING
E.W.....EACH WAY
E.O.S.....EDGE OF SLAB
E.N.....EDGE NAIL
FIN.....FINISHED OR FINAL
FIN.FLR.....FINISHED FLOOR
FLR.....FLOOR
G.....SPECIFIED CONCRETE STRENGTH @ 28 DAYS
F.O.B.....FACE OF BRICK
F.O.M.....FACE OF MASONRY
F.S.....FAR SIDE
FT.....FOOT OR FEET
GA.....GAUGE
GALV.....GALVANIZED
GLB.....GLU-LAMINATED BEAM
HD.....HOLDOWN
HDR.....HEADER
HORIZ.....HORIZONTAL
HSS.....HOLLOW STRUCTURAL SECTION
IBC.....INTERNATIONAL BUILDING CODE
IN.....INCH OR INCHES
IRC.....INTERNATIONAL RESIDENTIAL CODE
ICC.....INTERNATIONAL CODE COUNCIL
J.B.E.....JOIST BEARING ELEVATION
KIP.....KIP
LB.....POUND
LL.....LIVE LOAD
LLH.....LONG LEG HORIZONTAL
LLV.....LONG LEG VERTICAL
LSL.....LAMINATED STRAND LUMBER
LVL.....LAMINATED VENEER LUMBER
LBW.....LOAD BEARING WALL
JT.....JOINT
JST.....JOIST
JH.....JOIST HANGER
MFR.....MANUFACTURER
MAX.....MAXIMUM
MIN.....MINIMUM
ML.....MATCHLINE
(N).....NEW
NTS.....NOT TO SCALE
O.C.....ON CENTER
O.E.....OUTSIDE EDGE
O.H.....OPPOSITE HAND
OSB.....ORIENTED STRAND BOARD
OWT.....OPEN WEB TRUSS
PAF.....POWDER ACTUATED FASTENER
PDF.....POWDER DRIVEN FASTENER
P.E.M.....PANEL EDGE NAIL
P.E.M.B.....PRE-ENGINEERED METAL BUILDING
PF.....PARTIAL FRAME
PL.....PLATE
PLCS.....PLACES
PLF.....POUNDS PER LINEAR FOOT
PSF.....POUNDS PER SQUARE FOOT
PSI.....POUNDS PER SQUARE INCH
PSL.....PARALLEL STRAND LUMBER
PT.....PRESSURE TREATED
RF.....RIGID FRAME
SHTG.....SHEATHING
SJI.....STEEL JOIST INSTITUTE
SDI.....STEEL DECK INSTITUTE
S.O.G.....SLAB ON GRADE
SQ.....SQUARE
STL.....STEEL
T.....TON (2000 LBS.)
T&B.....TOP AND BOTTOM
TC.....TOP CHORD
TH.....TOP OF
THKD.....THICKENED
T.O.C.....TOP OF CONCRETE
TS.....THICKENED SLAB
TYP.....TYPICAL
UNO.....UNLESS NOTED OTHERWISE
V.B.....VAPOR BARRIER
VERT.....VERTICAL
VIF.....VERIFY IN FIELD
WVA.....VERIFY WITH ARCHITECT
WVF.....WELDED WIRE FABRIC
YD.....YARD (3 FT.)
Ø.....DIAMETER



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12.20.2021

SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL CLASSROOM
ADDITION AND INTERIOR RENOVATION

SPARTANBURG, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
0	12/20/2021	100% CONSTRUCTION DOCUMENTS	PGG

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: PGG
DRAWN BY: JSD

SHEET TITLE:
PROJECT NOTES -
SH. 2

SHEET NO. PROJ. NO.
21263

S0.02

SPECIAL INSPECTION

1. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING DEPARTMENT AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING PERIODIC INSPECTIONS REQUIRED BY THE BUILDING CODE. SPECIAL INSPECTION SHALL BE PAID BY THE OWNER.
2. SPECIAL INSPECTOR(S) SHALL MEET THE QUALIFICATIONS AS STATED IN THE BUILDING CODE AND SHALL PERFORM THE DUTIES AND RESPONSIBILITIES AS OUTLINED IN THE BUILDING CODE.
3. SPECIAL INSPECTION AND TESTING SHALL MEET THE REQUIREMENTS OF IBC SECTIONS 1704 AND 1705.
4. SPECIAL INSPECTOR(S) SHALL PERFORM THE FOLLOWING:
- A. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DRAWING AND SPECIFICATIONS
- B. FURNISH INSPECTION REPORTS TO THE ENGINEER OF RECORD AND BUILDING DEPARTMENT. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTIONS OF THE CONTRACTOR FOR CORRECTION. THEN, IF NOT CORRECTED TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT.
- C. SUBMIT TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT A SIGNED FINAL REPORT STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE PROVISIONS OF THE IBC.

5. SPECIAL INSPECTION NOTES:

- A. CONTINUOUS SPECIAL INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS NOTED OTHERWISE.
- B. WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF THE FABRICATOR'S SHOP, CONTINUOUS SPECIAL INSPECTION IS DURING THE PERFORMANCE OF THE WORK EXCEPT AS ALLOWED IN IBC SECTION 1704.2.5 AND UNLESS NOTED OTHERWISE.
- C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SPECIAL INSPECTOR(S) WITH ADVANCE NOTICE, NO LESS THAN ONE WORKING DAY OF THE INITIATION OF ANY WORK REQUIRING SPECIAL INSPECTIONS. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION WILL BE SUBJECT TO REMOVAL.

1704.2.4 REPORT REQUIREMENTS					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
1. SPECIAL INSPECTOR TO KEEP RECORD OF SPECIAL INSPECTIONS AND FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	X	-		1704.2.4	<input checked="" type="checkbox"/> <input type="checkbox"/>

1704.2.5 INSPECTION OF FABRICATED ITEMS					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
1. WORK DONE IN FABRICATOR SHOP REQUIRES INSPECTOR UNLESS THE FABRICATOR IS REGISTERED AND APPROVED ACCORDING TO IBC 1704.2.5.1 WHERE FABRICATOR IS APPROVED, PROVIDE FABRICATOR CERTIFICATION DOCUMENT.	-	X		1704.2.5 DOCUMENT REQUIRED	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. AT COMPLETION OF FABRICATION, SUBMIT CERTIFICATE OF COMPLIANCE TO BUILDING OFFICIAL STATING THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	-	X		1704.2.5.1 DOCUMENT REQUIRED	<input checked="" type="checkbox"/> <input type="checkbox"/>

1704.3 STATEMENT OF SPECIAL INSPECTIONS					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
1. A REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL PREPARE A STATEMENT OF SPECIAL INSPECTIONS.	-	X		1704.3 (THIS DOCUMENT)	<input checked="" type="checkbox"/> <input type="checkbox"/>

1704.4 CONTRACTOR RESPONSIBILITY					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY.	-	X		1704.4 (PAGE 4 DOCUMENT REQUIRED)	<input checked="" type="checkbox"/> <input type="checkbox"/>

1704.5 SUBMITTALS TO THE BUILDING OFFICIAL					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
IN ADDITION TO THE SUBMITTAL REPORTS OF SPECIAL INSPECTIONS AND TESTS IN ACCORDANCE WITH SECTION 1704.2.4, REPORTS AND CERTIFICATES SHALL BE SUBMITTED BY THE OWNER OR OWNERS AUTHORIZED AGENT TO THE BUILDING OFFICIAL FOR EACH OF THE FOLLOWING:	X	-		1704.5	<input checked="" type="checkbox"/> <input type="checkbox"/>
1. CERTIFICATES OF COMPLIANCE FOR THE FABRICATION OF STRUCTURAL LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES ON THE PREMISES OF A REGISTERED AND APPROVAL FABRICATOR IN ACCORDANCE WITH SECTION 1704.2.5.1	X	-	SEC. 1704.2.5.1 (FABRICATOR)	1704.5	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. CERTIFICATES OF COMPLIANCE FOR THE SEISMIC QUALIFICATION OF NONSTRUCTURAL COMPONENTS, SUPPORTS AND ATTACHMENTS IN ACCORDANCE WITH SECTION 1705.13.2	X	-	SEC. 1705.13.2	1704.5	<input checked="" type="checkbox"/> <input type="checkbox"/>
3. CERTIFICATES OF COMPLIANCE FOR DESIGNATED SEISMIC SYSTEMS IN ACCORDANCE WITH SECTION 1705.13.3	X	-	SEC. 1705.13.3	1704.5 AND 1704.3.2	<input type="checkbox"/> <input checked="" type="checkbox"/>
4. REPORTS OF PRECONSTRUCTION TESTS FOR SHOTCRETE IN ACCORDANCE WITH SECTION 1908.5	X	-	SEC. 1908.5	1704.5	<input type="checkbox"/> <input checked="" type="checkbox"/>
5. CERTIFICATES OF COMPLIANCE FOR OPEN WEB STEEL JOIST AND JOIST GIRDERS IN ACCORDANCE WITH SECTION 2207.5	X	-	SEC. 2207.5	1704.5	<input type="checkbox"/> <input checked="" type="checkbox"/>
6. REPORTS OF MATERIAL PROPERTIES VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF AWS D1.4 FOR WELDABILITY AS SPECIFIED IN SECTION 26.6.4 OF ACI 318 FOR REINFORCING BAR IN CONCRETE COMPLYING WITH A STANDARD OTHER THAN ASTM A706 THAT ARE TO BE WELDED.	X	-	AWS D1.4 SEC. 26.6.4 OF ACI 318 ASTM A706	1704.5	<input type="checkbox"/> <input checked="" type="checkbox"/>
7. REPORTS OF MILL TESTS IN ACCORDANCE WITH SECTION 20.2.2.5 OF ACI 318 FOR REINFORCING BARS COMPLYING WITH ASTM A615 AND USED TO RESIST EARTHQUAKE-INDUCED FLEXURAL OR AXIAL FORCES IN THE SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS OR COUPLING BEAMS CONNECTING SPECIAL STRUCTURAL WALLS OF SEISMIC FORCE-RESISTING SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E, OR F.	X	-	SEC. 20.2.2.5 OF ACI 318 ASTM A615	1704.5	<input type="checkbox"/> <input checked="" type="checkbox"/>

1704.6 SPECIAL INSPECTIONS FOR STRUCTURAL OBSERVATION					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
THE OWNER SHALL EMPLOY A REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATION PRIOR TO COMMENCEMENT OF OBSERVATION. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT IDENTIFYING FREQUENCY AND EXTENT OF STRUCTURAL OBSERVATIONS.	-	X		1704.6.1, 1704.6.2, AND 1704.6.3	<input type="checkbox"/> <input checked="" type="checkbox"/>

1705.2.1 STEEL CONSTRUCTION INSPECTION					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
1. STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.	-	X	AISC 360	1705.2.1	<input checked="" type="checkbox"/> <input type="checkbox"/>

1705.2.2 TO 1705.2.4 STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL INSPECTION					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.	-	X	ASTM STANDARDS	1705.2.1	<input checked="" type="checkbox"/> <input type="checkbox"/>
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X	AISC 360, SEC. A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS	1705.2	<input checked="" type="checkbox"/> <input type="checkbox"/>
b. MANUFACTURER'S CERTIFICATE TEST REPORTS.	-	X		1705.2	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. INSPECTION OF WELDING.					
a. COLD-FORMED STEEL DECK.					
a (1). FLOOR AND ROOF DECK WELDS.	-	X	AWS D1.3	1705.2	<input type="checkbox"/> <input checked="" type="checkbox"/>
b. REINFORCING STEEL.				1705.2	
b (1). VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706.	-	X	AWS D1.4 ACI 318, 3.5.2	1705.2	<input type="checkbox"/> <input checked="" type="checkbox"/>
b (2). REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES.	X	-	AWS D1.4 ACI 318, 3.5.2	1705.2	<input type="checkbox"/> <input checked="" type="checkbox"/>
b (3). SHEAR REINFORCEMENT.	X	-	AWS D1.4 ACI 318, 3.5.2	1705.2	<input type="checkbox"/> <input checked="" type="checkbox"/>
b (4). OTHER REINFORCING STEEL.	-	X	AWS D1.4 ACI 318, 3.5.2	1705.2	<input type="checkbox"/> <input checked="" type="checkbox"/>

TABLE 1705.2.3 INSPECTION OF OPEN-WEB STEEL JOIST AND JOIST GIRDERS					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
1. INSTALLATION OF OPEN-WEB STEEL JOIST AND JOIST GIRDERS.				TABLE 1705.2.3	
a. END CONNECTIONS - WELDING OR BOLTED.	-	X	SJI SPECIFICATION LISTED IN SEC. 2207.1	TABLE 1705.2.3	<input type="checkbox"/> <input checked="" type="checkbox"/>
b. BRIDGING - HORIZONTAL OR DIAGONAL.				TABLE 1705.2.3	
b (1). STANDARD BRIDGING.	-	X	SJI SPECIFICATION LISTED IN SEC. 2207.1	TABLE 1705.2.3	<input type="checkbox"/> <input checked="" type="checkbox"/>
b (2). BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SEC. 2207.1.	-	X		TABLE 1705.2.3	<input type="checkbox"/> <input checked="" type="checkbox"/>

TABLE 1705.3 REQUIRED VERIFICATION AND SPECIAL INSPECTION OF CONCRETE CONSTRUCTION					
VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCED STANDARD	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	-	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6, 1.26.6.3, & 35	1908.4, TABLE 1705.3	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. REINFORCING BAR WELDING					
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	-	X			
b. INSPECT SINGLE-PASS WELDS, MAXIMUM 5/16"	-	X	AWS D1.4 ACI 318: Ch. 26.6.4	1905, TABLE 1705.3	<input type="checkbox"/> <input checked="" type="checkbox"/>
c. INSPECT ALL OTHER WELDS	X	-			
3. INSPECTION OF ANCHORS CAST IN CONCRETE.	-	X	ACI 318: Ch. 17.8.2	1905, TABLE 1705.3	<input checked="" type="checkbox"/> <input type="checkbox"/>
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.					
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION	X	-	ACI 318: Ch. 17.8.2.4	TABLE 1705.3	<input checked="" type="checkbox"/> <input type="checkbox"/>
b. MECH. ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a.	-	X	ACI 318: Ch. 17.8.2	TABLE 1705.3	<input checked="" type="checkbox"/> <input type="checkbox"/>
5. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3, TABLE 1705.3	<input checked="" type="checkbox"/> <input type="checkbox"/>
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172 ASTM C31 ACI 318: Ch. 26.5 & 26.12	1908.10, TABLE 1705.3	<input checked="" type="checkbox"/> <input type="checkbox"/>
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: Ch. 26.5	1908.6, 1908.7 & 1908.8, TABLE 1705.3	<input checked="" type="checkbox"/> <input type="checkbox"/>
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: Ch. 26.5.3 - 26.5.5	1908.9, TABLE 1705.3	<input checked="" type="checkbox"/> <input type="checkbox"/>
9. INSPECTION OF PRE-STRESSED CONCRETE.					
a. APPLICATION OF PRE-STRESSING FORCE.	X	-			
b. GROUTING OF BONDED PRE-STRESSING TENDONS.	X	-	ACI 318: Ch. 26.10	TABLE 1705.3	<input type="checkbox"/> <input checked="" type="checkbox"/>
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: Ch. 26.9	TABLE 1705.3	<input type="checkbox"/> <input checked="" type="checkbox"/>
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: Ch. 26.11.2	TABLE 1705.3	<input type="checkbox"/> <input checked="" type="checkbox"/>
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSION OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: Ch. 26.11.1(b)	TABLE 1705.3	<input type="checkbox"/> <input checked="" type="checkbox"/>

1705.4 MASONRY CONSTRUCTION SPECIAL INSPECTION					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
MASONRY CONSTRUCTION SHALL BE INSPECTED AND VERIFIED PER STANDARDS.	-	X	TMS 602 & 602	1705.4	<input checked="" type="checkbox"/> <input type="checkbox"/>
1. EMPIRICALLY DESIGN MASONRY GLASS UNIT MASONRY AND MASONRY VENEER IN RISK CATEGORY IV.	X	-	SECTION 2105, 2110 OR CL. 14, SECTION 1604.5, SHALL COMPLY WITH TMS 602 LEVEL 2	1705.4.1	<input type="checkbox"/> <input checked="" type="checkbox"/>
2. VERTICAL MASONRY FOUNDATION ELEMENTS.	-	X	IBC SEC. 1705.4	1705.4.2	<input type="checkbox"/> <input checked="" type="checkbox"/>

1705.5 WOOD CONSTRUCTION SPECIAL INSPECTION					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
1. HIGH-LOAD DIAPHRAGMS	-	X	IBC SEC. 2306.2, SEC. 1704.2 APPROVED CONSTRUCTION DRAWINGS	1705.5.1	<input type="checkbox"/> <input checked="" type="checkbox"/>
2. METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING 60 FEET OR GREATER	-	X	APPROVED TRUSS SUBMITTAL PACKAGE (BRACING)	1705.5.2	<input type="checkbox"/> <input checked="" type="checkbox"/>

TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS					
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X		TABLE 1705.6	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X		TABLE 1705.6	<input checked="" type="checkbox"/> <input type="checkbox"/>
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X		TABLE 1705.6	<input checked="" type="checkbox"/> <input type="checkbox"/>
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT & COMPACTION OF COMPACTED FILL.	X	-		TABLE 1705.6	<input checked="" type="checkbox"/> <input type="checkbox"/>
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUB-GRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X		TABLE 1705.6	<input checked="" type="checkbox"/> <input type="checkbox"/>


TABLE 1705.7 DRIVEN DEEP FOUNDATION SPECIAL INSPECTION					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
1. VERIFY ELEMENT MATERIALS, SIZE AND LENGTHS COMPLY WITH THE REQUIREMENTS.	X	-		TABLE 1705.7	<input type="checkbox"/> <input checked="" type="checkbox"/>
2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	X	-		TABLE 1705.7	<input type="checkbox"/> <input checked="" type="checkbox"/>
3. INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-		TABLE 1705.7	<input type="checkbox"/> <input checked="" type="checkbox"/>
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	X	-		TABLE 1705.7	<input type="checkbox"/> <input checked="" type="checkbox"/>
5. FOR STEEL ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.2	-	-		SEC. 1705.2 & TABLE 1705.7	<input type="checkbox"/> <input checked="" type="checkbox"/>
6. FOR CONCRETE ELEMENTS AND CONCRETE FILLED ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3	-	-		SEC. 1705.3 & TABLE 1705.7	<input type="checkbox"/> <input checked="" type="checkbox"/>
7. FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	-	-		1705.7	<input type="checkbox"/> <input checked="" type="checkbox"/>

TABLE 1705.8 CAST-IN-PLACE DEEP FOUNDATION SPECIAL INSPECTION					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
1. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-		TABLE 1705.8	<input type="checkbox"/> <input checked="" type="checkbox"/>
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETER, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END BEARING STRAIN CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	-		TABLE 1705.8	<input type="checkbox"/> <input checked="" type="checkbox"/>
3. FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3	-	-		SEC. 1705.3 & TABLE 1705.8	<input type="checkbox"/> <input checked="" type="checkbox"/>

1705.9 HELICAL PILE SPECIAL INSPECTION					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
1. INSTALLATION OF HELICAL PILE FOUNDATIONS	X	-	APPROVED GEOTECHNICAL REPORT AND REGISTERED DESIGN PROFESSIONAL	1705.9	<input type="checkbox"/> <input checked="" type="checkbox"/>

1705.10 SPECIAL INSPECTION FOR FABRICATED ITEMS					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
1. SPECIAL INSPECTIONS FOR FABRICATED ITEMS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1704.2.5				SEC. 1704.2.5 & 1705.10	<input checked="" type="checkbox"/> <input type="checkbox"/>

1705.11 SPECIAL INSPECTIONS FOR WIND RESISTANCE					
INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED YES NO
	CONTINUOUS	PERIODIC			
WIND REQUIREMENTS FOR BUILDINGS AND STRUCTURES PER 1705.11				1705.11	<input type="checkbox"/> <input checked="" type="checkbox"/>
1. STRUCTURAL WOOD				1705.11.1	
a. FIELD GLUING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM	X	-		1705.11.1	<input type="checkbox"/> <input checked="" type="checkbox"/>
b. NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLD-DOWNS.	-	X		1705.11.1	



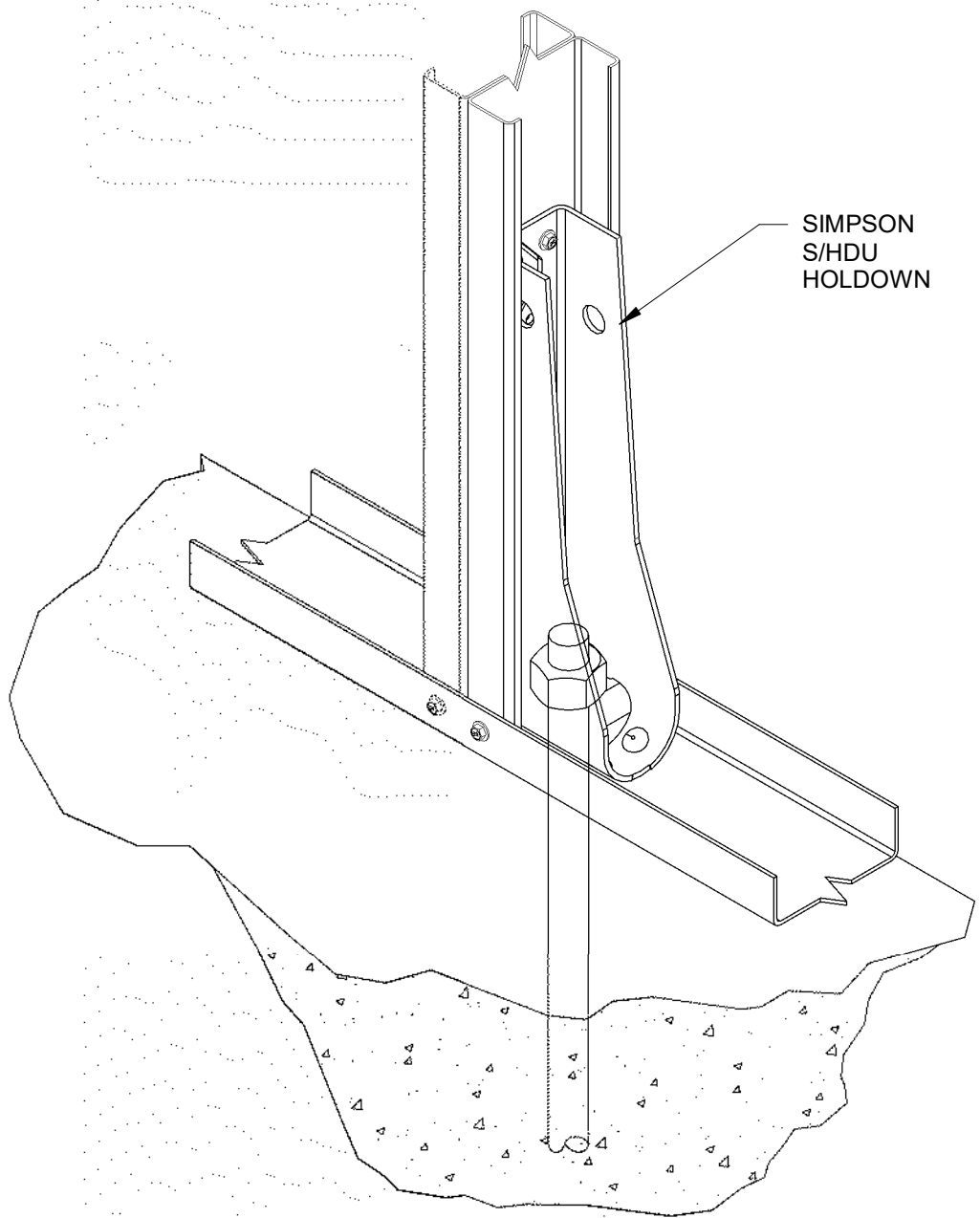
\$1.0

PROJECT
NORTH
N

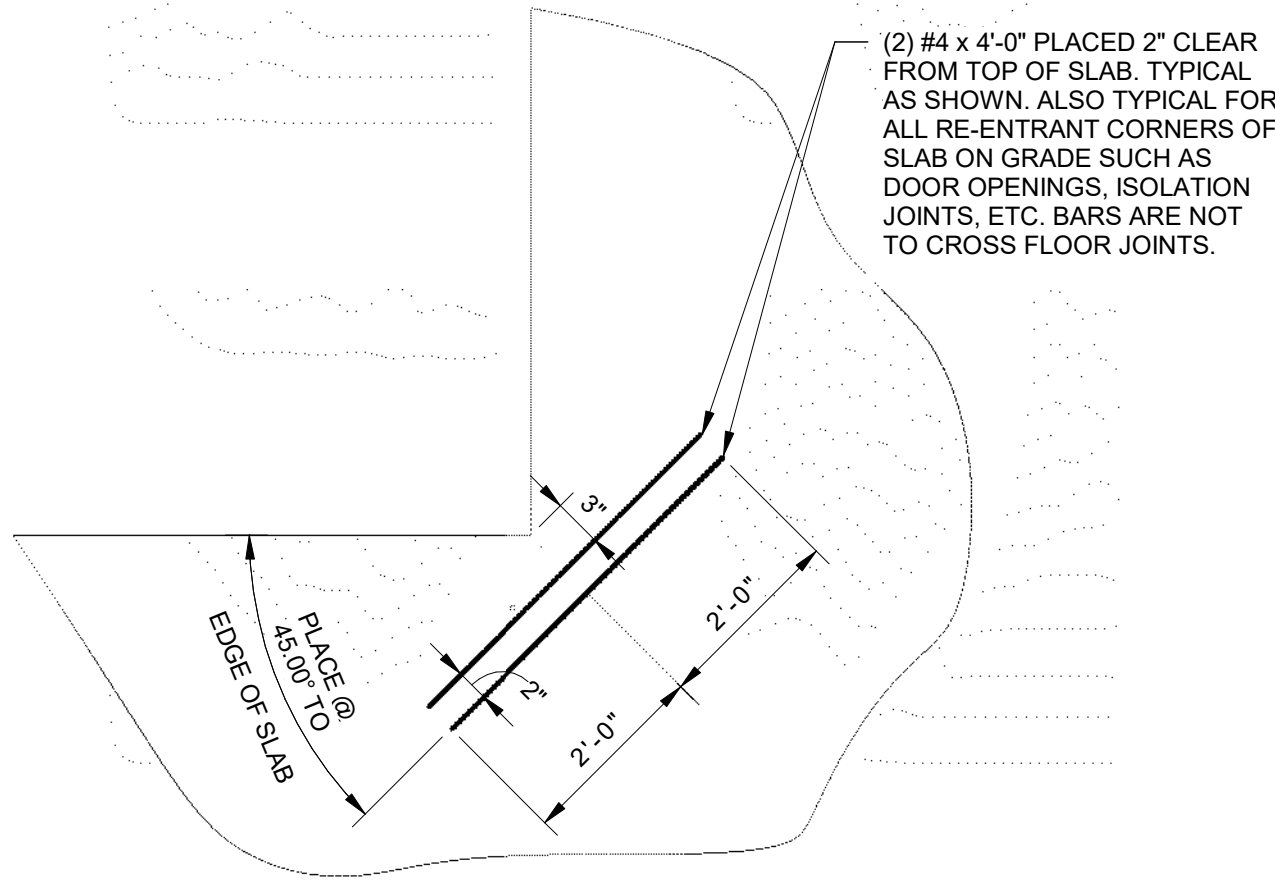


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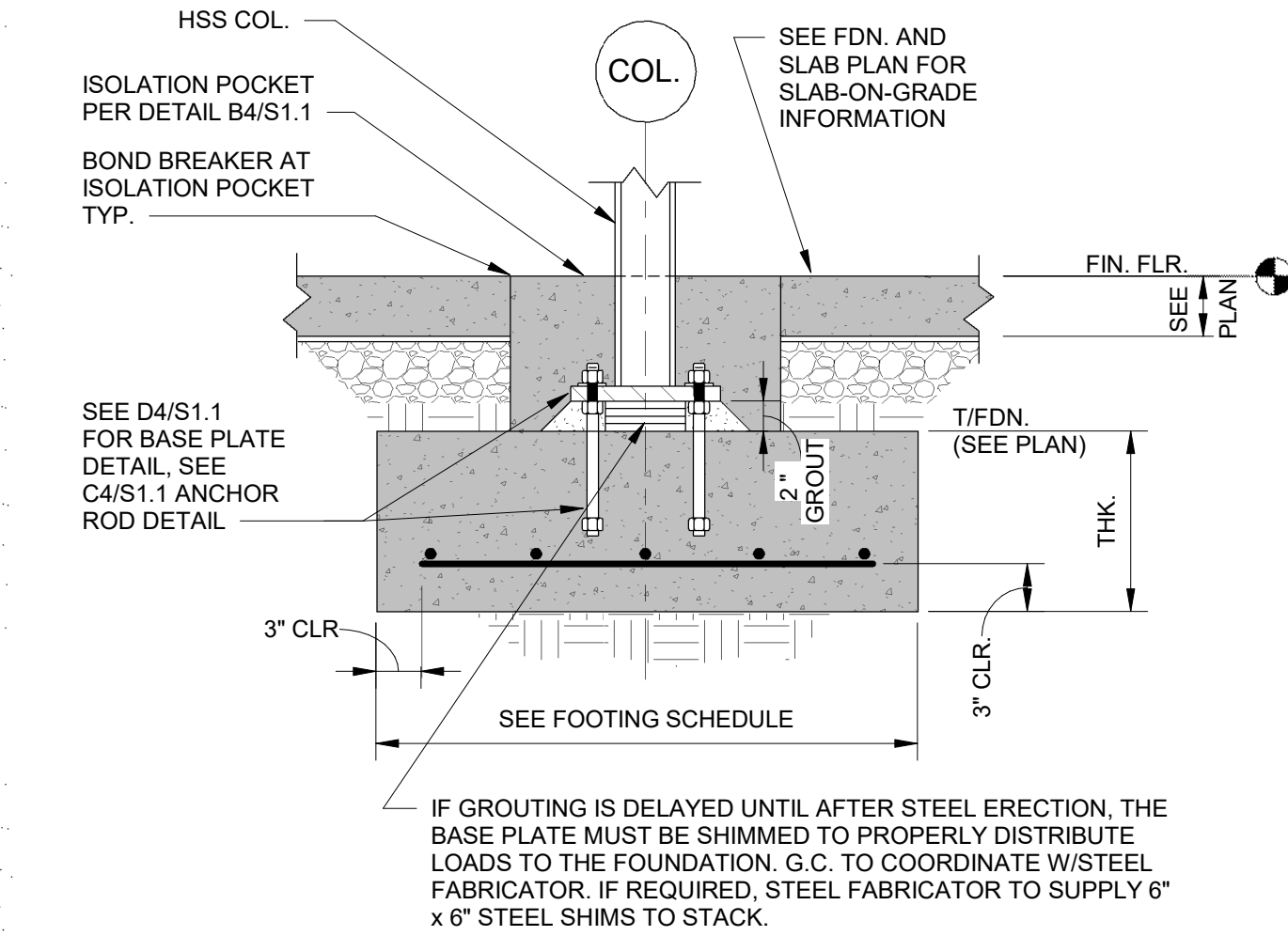
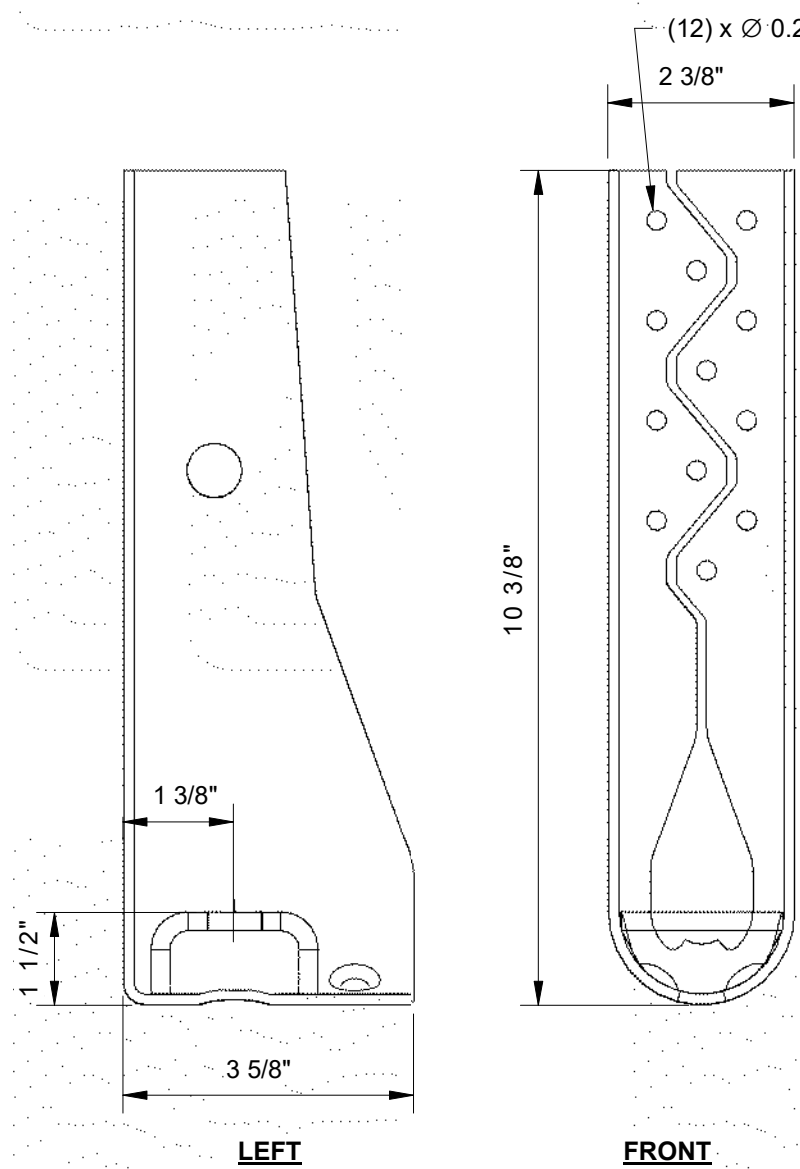
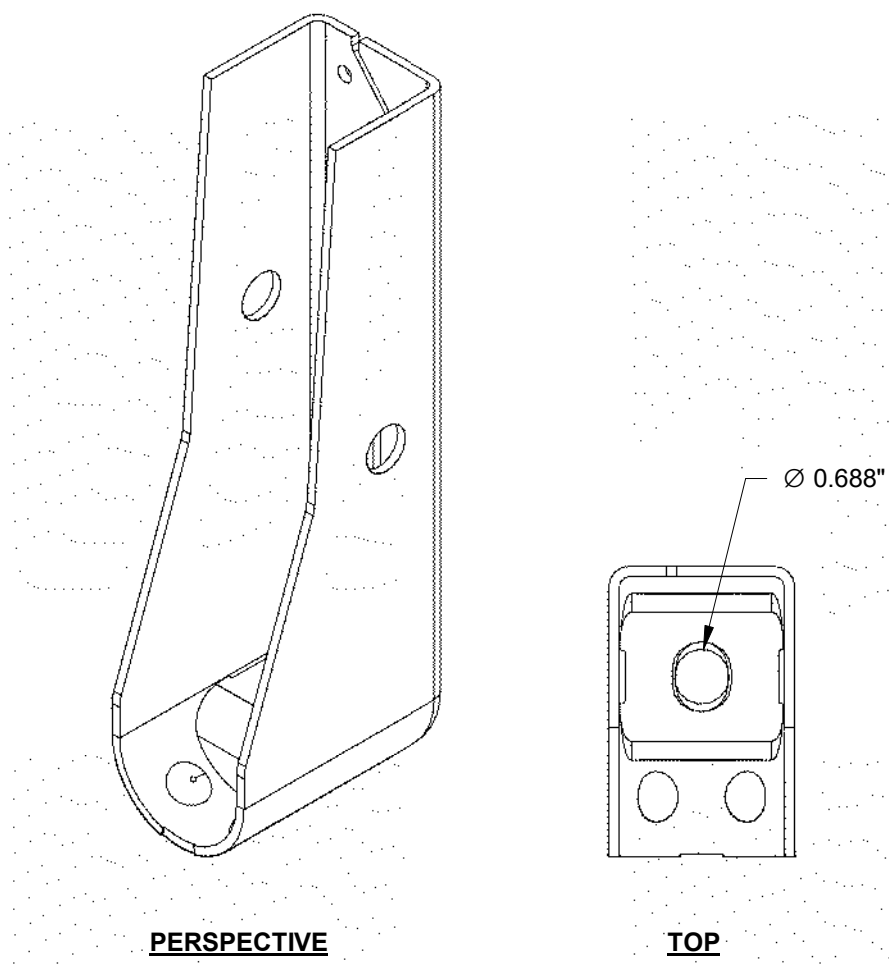
MODEL	ANCHOR BOLT DIAMETER	STUD FASTENERS
S/HDU6	5/8"	12 (#14)



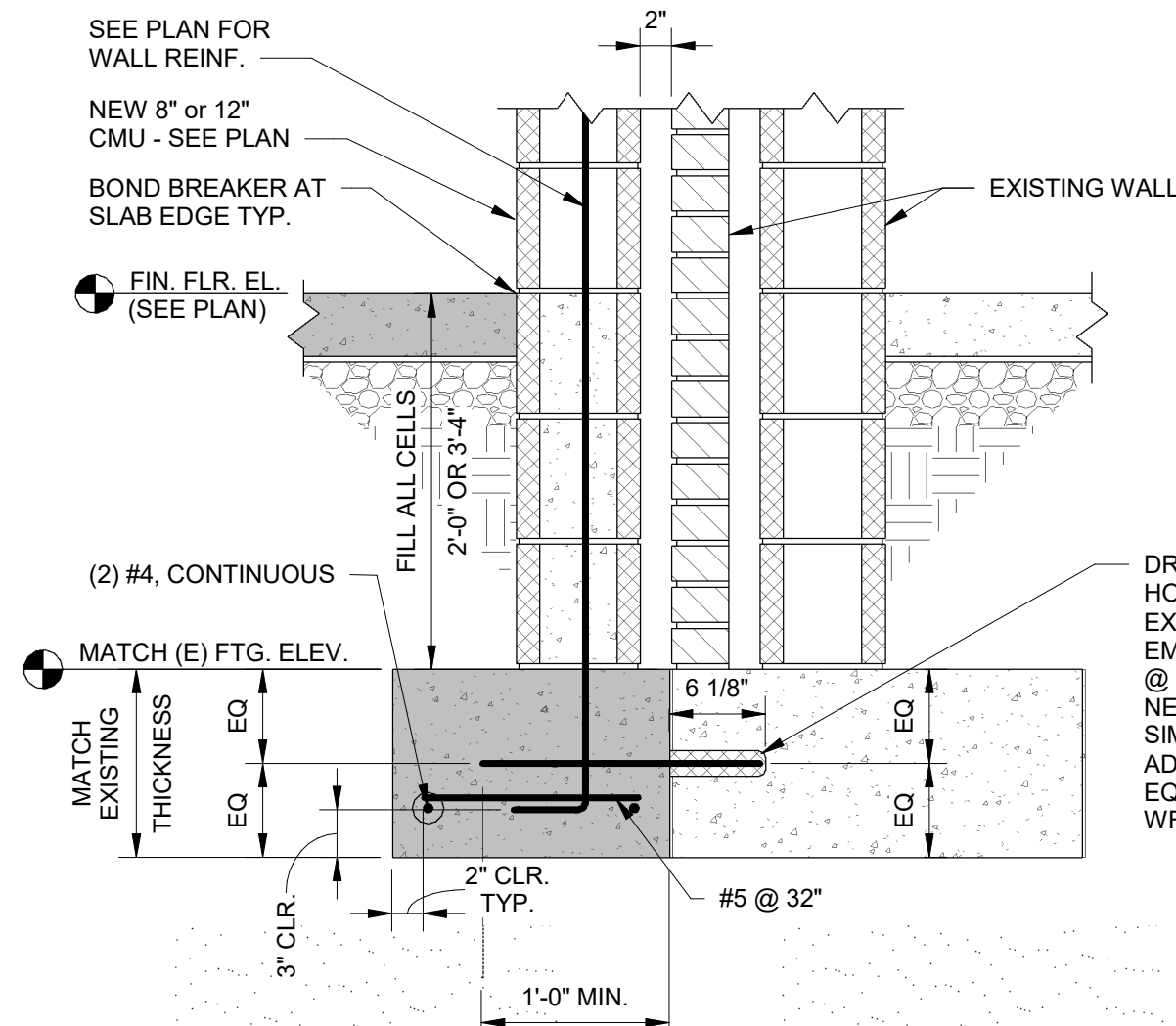
A1
S1.1
TYP. HOLD DOWN DETAILS (FOR SIMPSON S/HDU6)
1" = 1'-0"



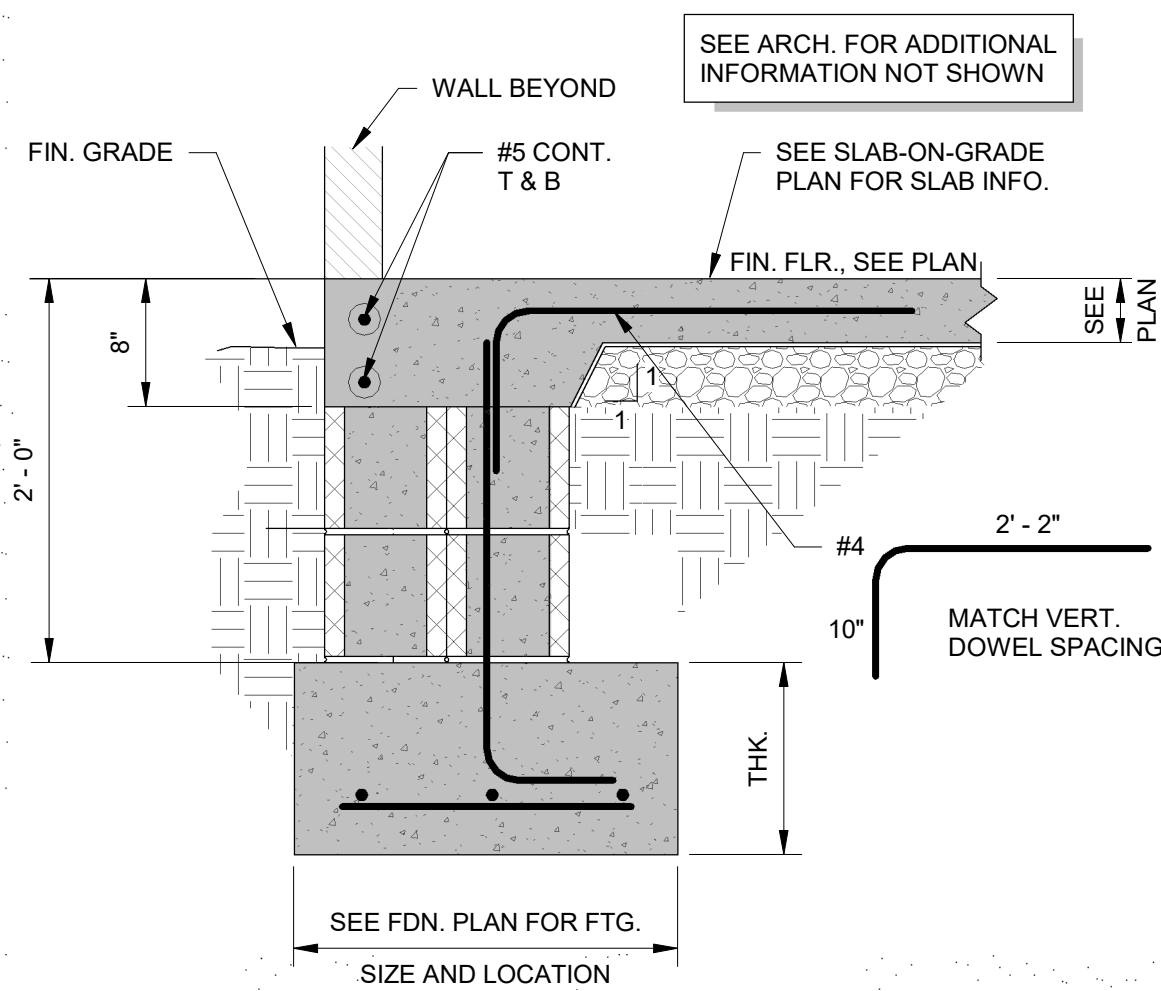
D2
S1.1
TYP. SLAB RE-ENTRANT CORNER
1" = 1'-0"



B3
S1.1
TYPICAL COLUMN FOOTING WITHOUT PIER
1" = 1'-0"



A3
S1.1
NEW FTG. DOWELLED INTO (E) FTG. @ (E) WALL
1" = 1'-0"

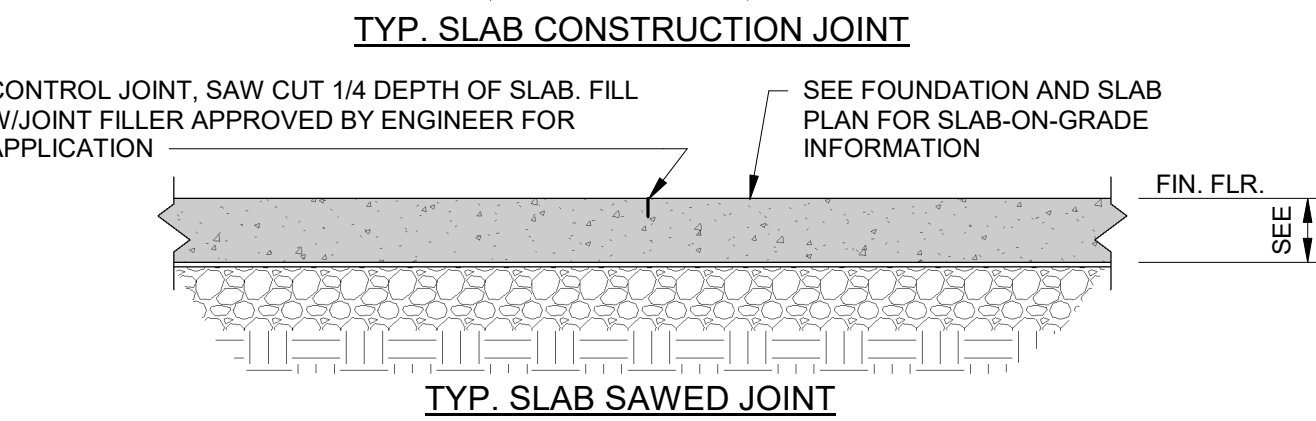
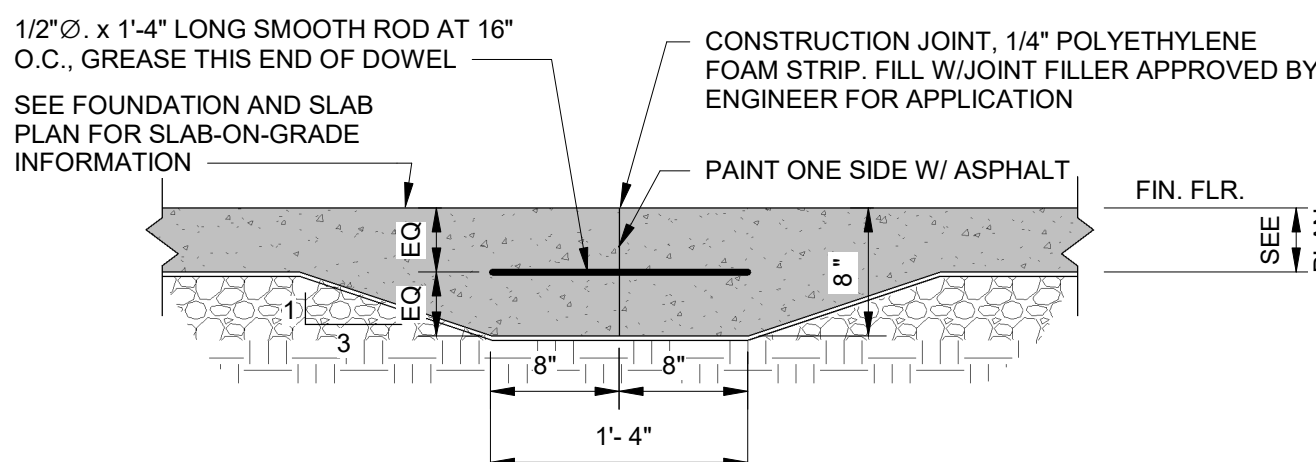


D3
S1.1
TYP. TURNED DOWN SLAB DETAIL
1" = 1'-0"

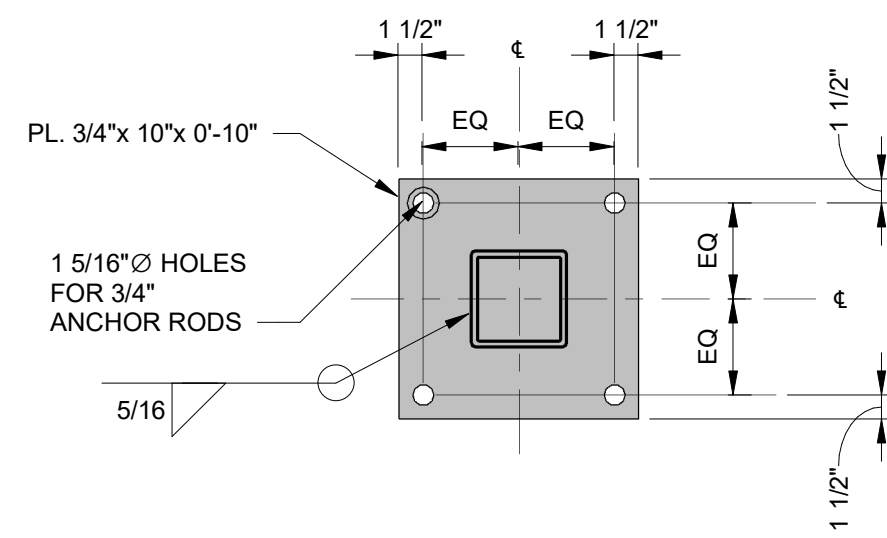
AT GC'S OPTION, IT IS ACCEPTABLE TO USE PNA CONSTRUCTION TECHNOLOGIES DIAMOND DOWEL SYSTEM (OR AN APPROVED EQUAL) AT CONCRETE SLAB ON GRADE CONSTRUCTION JOINTS IN LIEU OF SMOOTH BAR DOWELS AS INDICATED. THE GC SHALL SUBMIT TO THE ENGINEER OF RECORD THE FOLLOWING FOR APPROVAL PRIOR TO USING THE DIAMOND DOWEL SYSTEM:

1. THE PROPOSED DIAMOND DOWEL LOCATION IN PLAN
2. THE DIAMOND DOWEL DIMENSIONS THAT ARE BEING REQUESTED TO BE USED
3. THE DIAMOND DOWEL SPACING THAT IS BEING REQUESTED
4. THE PROPOSED SLAB ON GRADE THICKNESS AT THE DIAMOND DOWEL'S

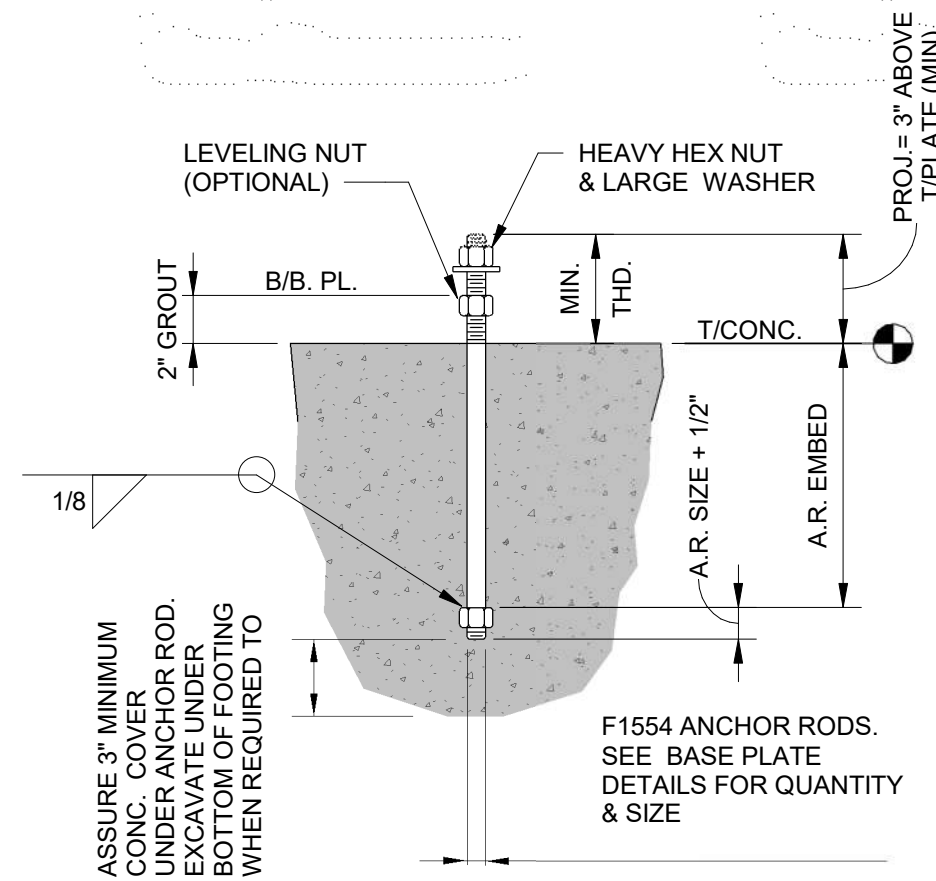
UPON APPROVAL BY THE EOR, THE GC IS RESPONSIBLE FOR INSTALLING THE DIAMOND DOWEL SYSTEM PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS



C3
S1.1
TYPICAL JOINT DETAIL W/ MACRO-FIBERS FOR S.O.G.
1" = 1'-0"

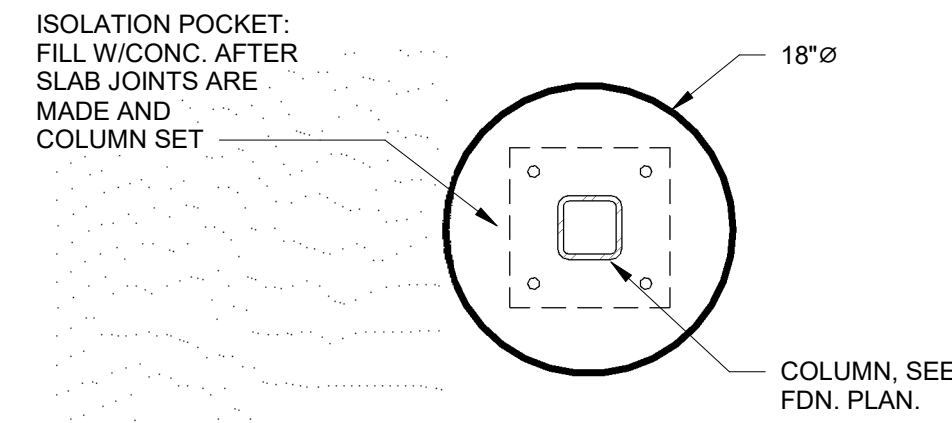


D4
S1.1
HSS4x4 BASE PLATE DETAIL - BP1
1" = 1'-0"



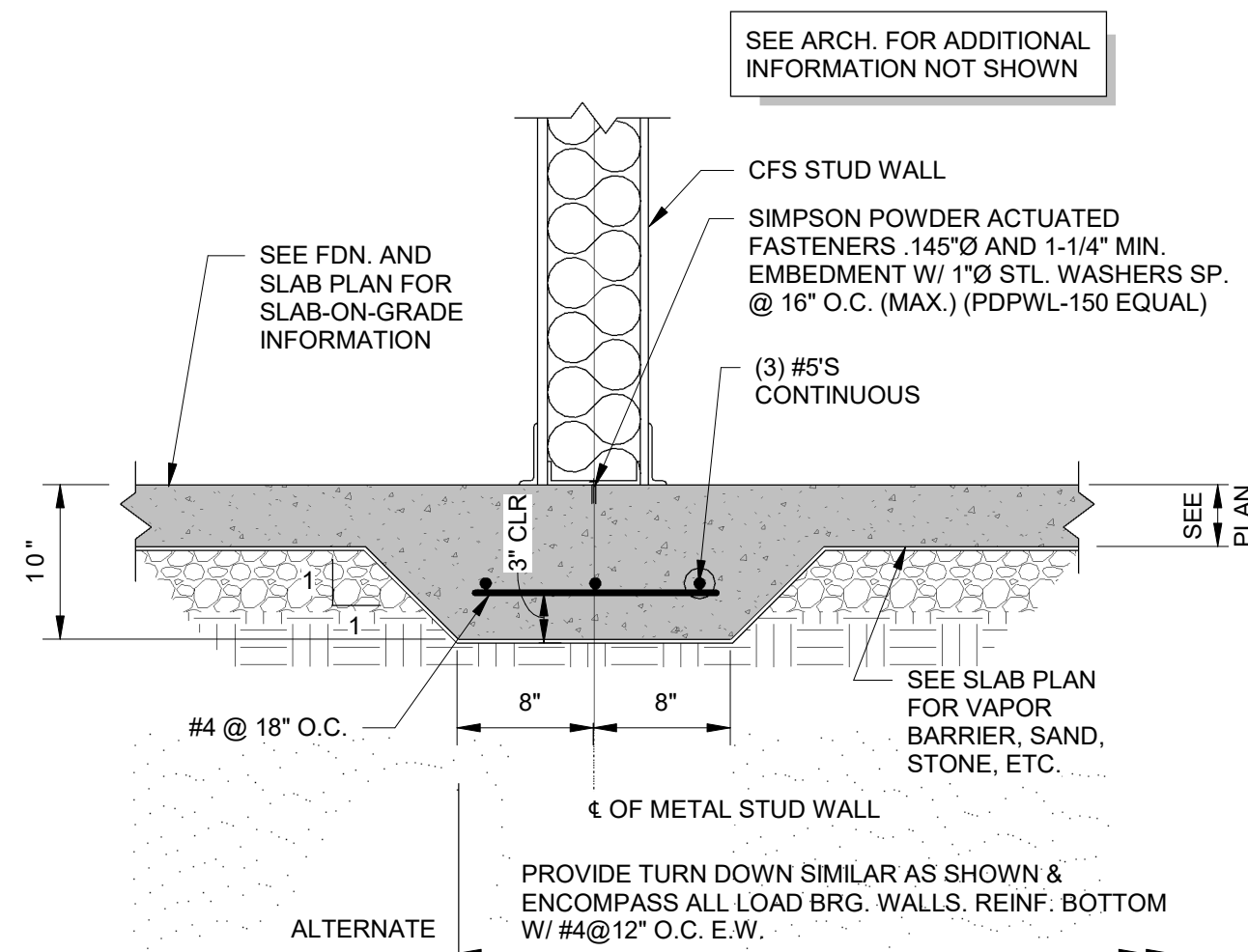
TYPICAL ANCHOR ROD DETAIL NOTE:
PROVIDE THE FOLLOWING A.R. EMBED (U.N.O.)
3/4"Ø 11" MINIMUM Fy= 36ksi

C4
S1.1
TYPICAL ANCHOR ROD DETAIL
1" = 1'-0"



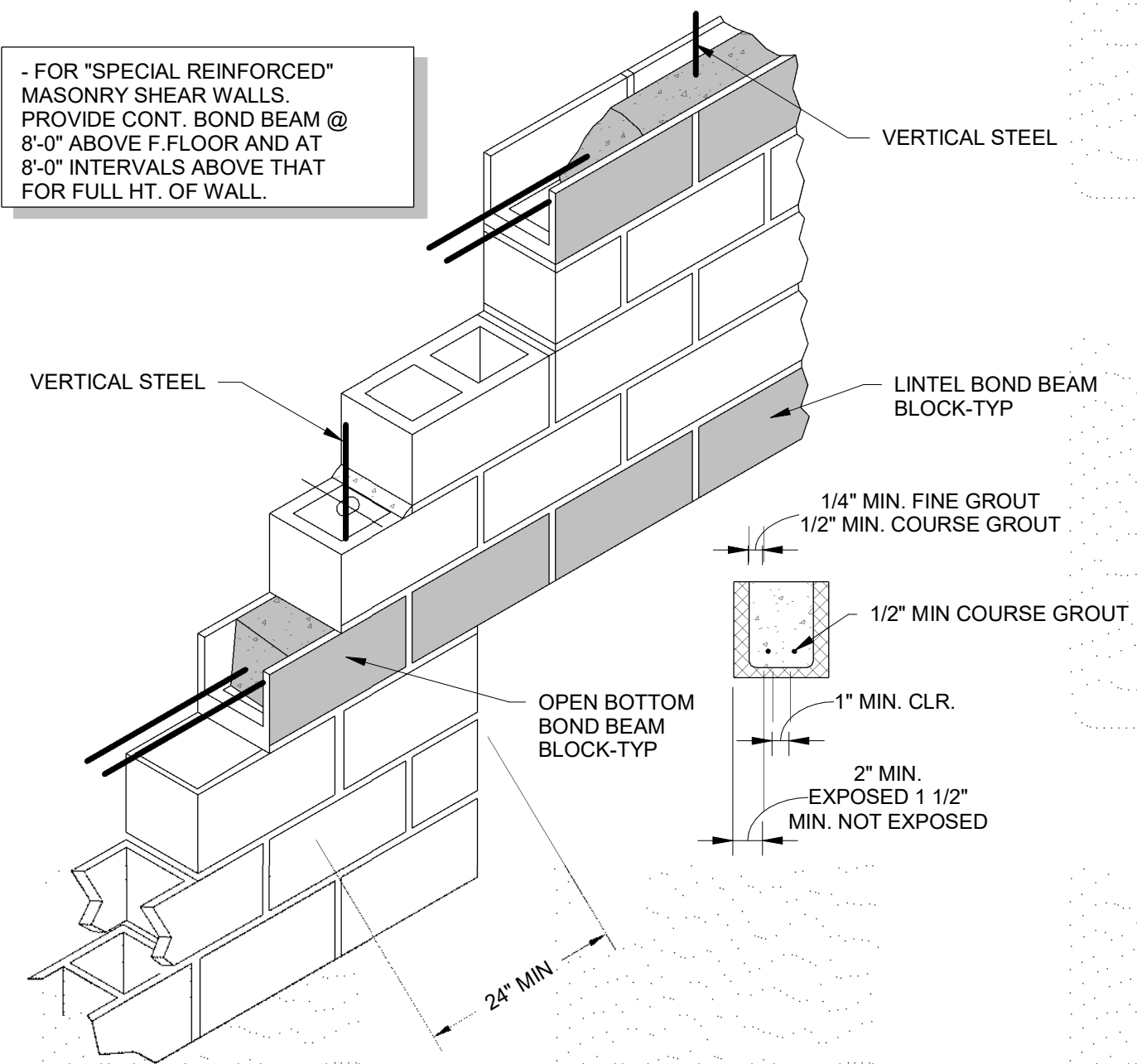
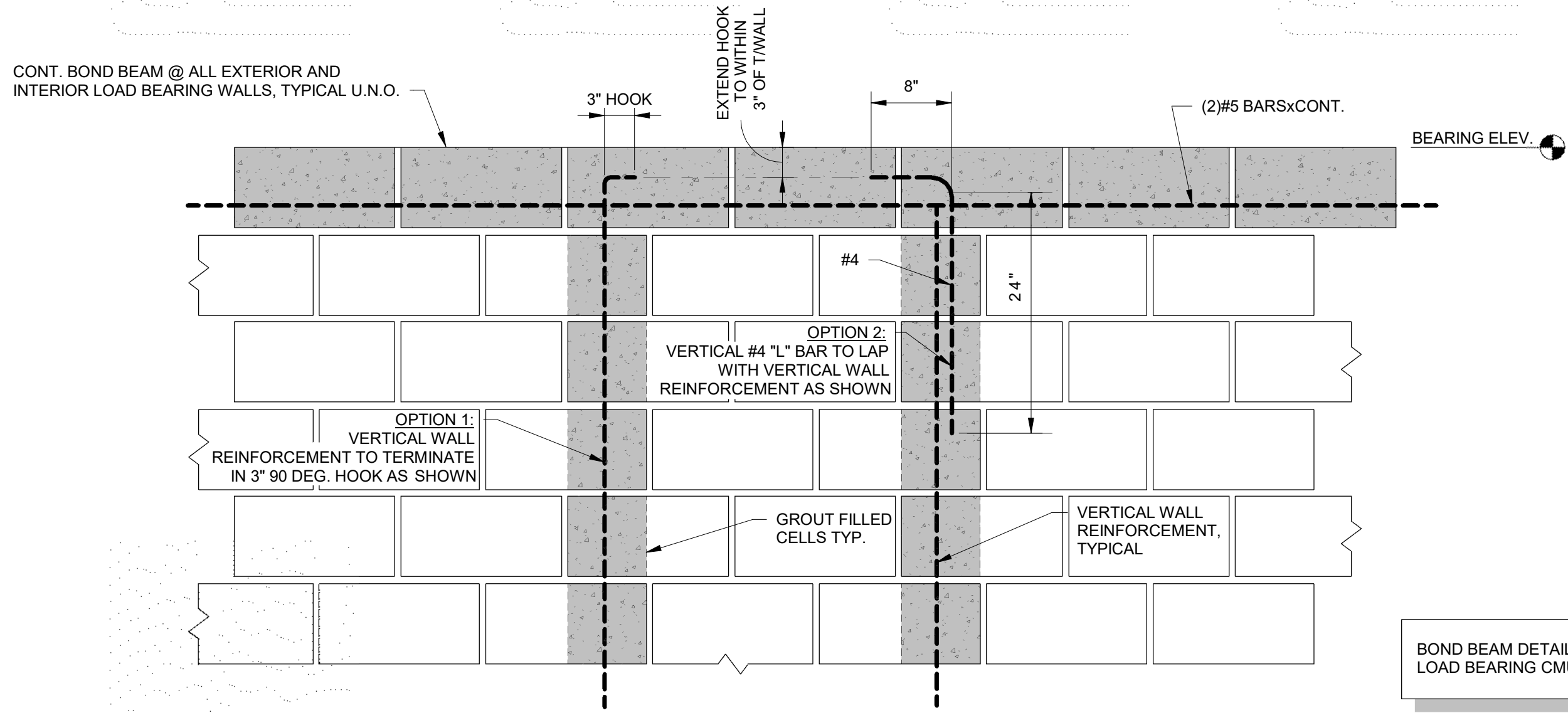
NOTE:
1. JOINT SHOWN FOR AN INTERIOR COLUMN AND SHALL BE SIMILAR FOR COLUMNS LOCATED NEAR EDGES AND CORNERS OF SLAB. CONSTRUCT ALL ISOLATION JOINTS AS REQUIRED TO ASSURE 3" MINIMUM COVER FOR ALL STEEL BELOW FINISHED FLOOR.
2. PROVIDE RE-ENTRANT REINFORCING FOR ALL CORNERS OF SLAB ON GRADE AS SHOWN IN DETAIL D2/S1.1.
3. SEE CONC. NOTES FOR RECOMMENDED JOINT SPACING.

B4
S1.1
TYPICAL COLUMN ISOLATION DETAIL
1" = 1'-0"

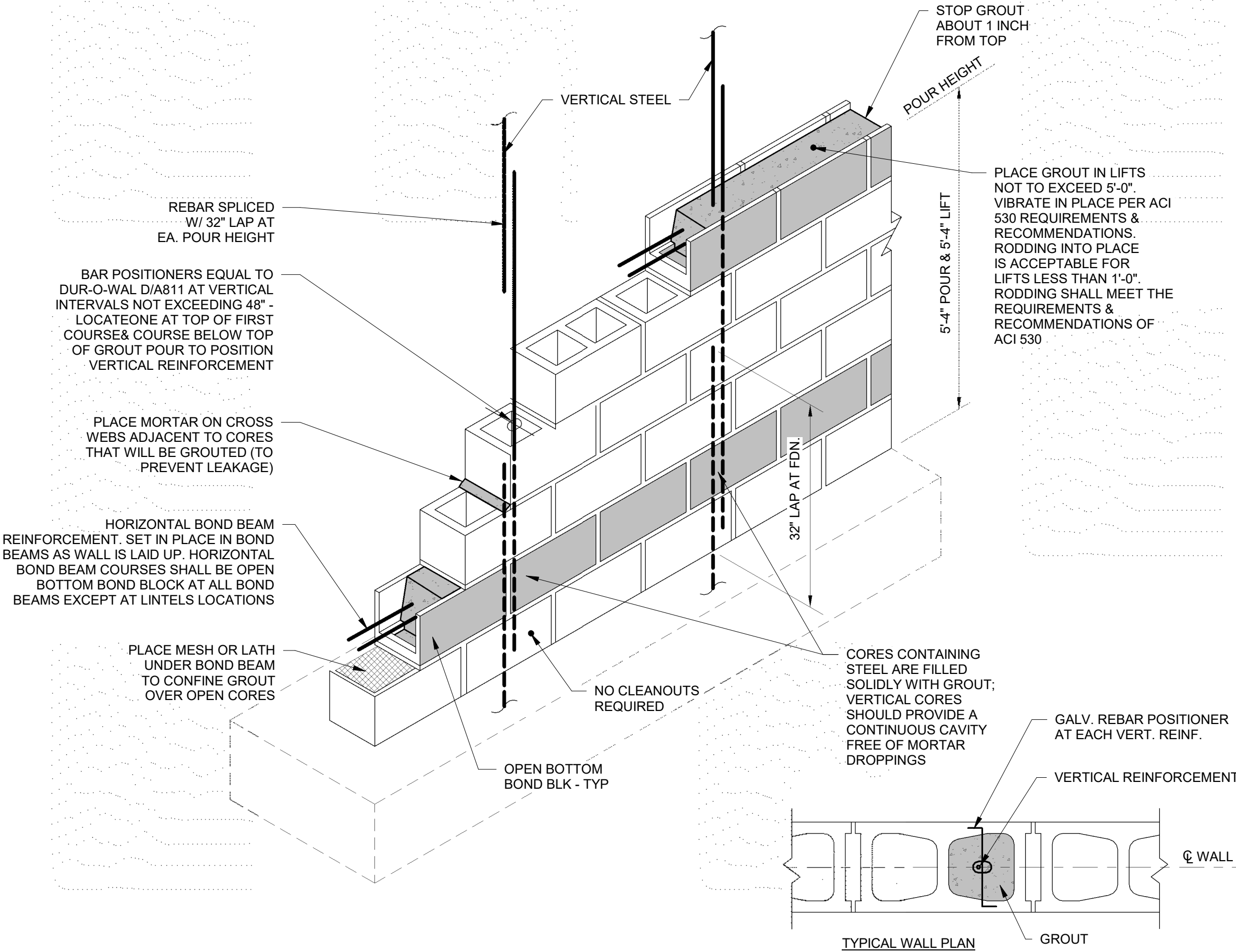
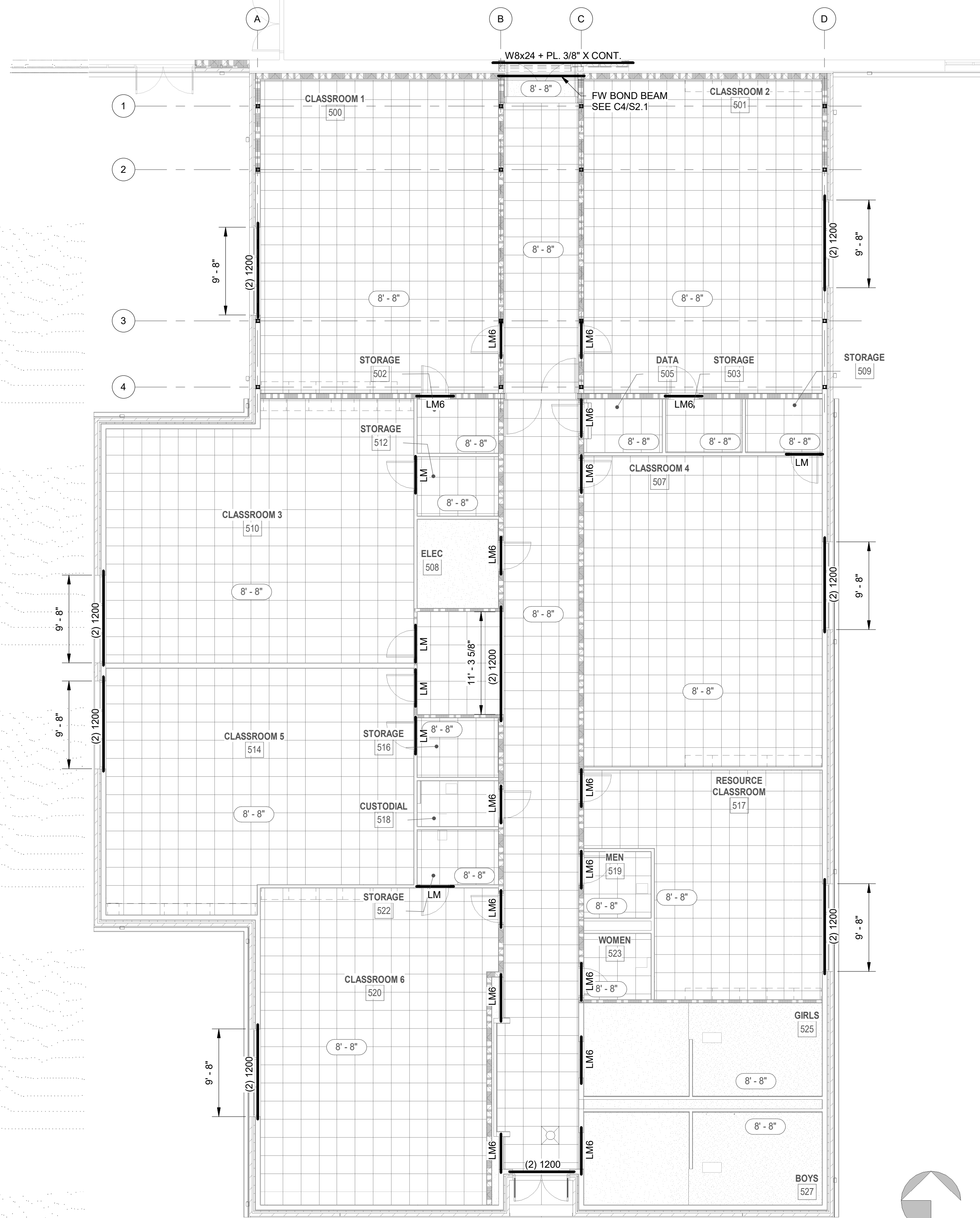


A4
S1.1
TYP. METAL STUD BEARING WALL FDN. (T.S.)
1" = 1'-0"

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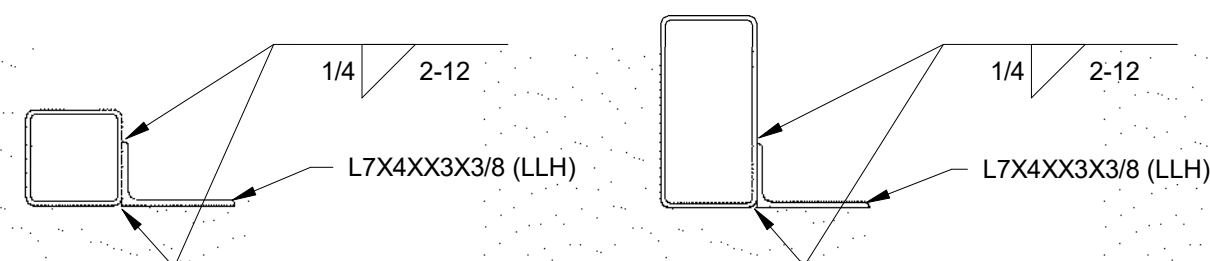


- LINTEL NOTES:**
- DO NOT PLACE VERTICAL JOINTS WITHIN 16" OF ANY OPENING IN CMU BLOCK WALLS. SEE ARCHITECTURAL DRAWINGS FOR BRICK VENEER CONTROL JOINTS.
 - (2) 1200 INDICATES (2) 1200x250-68 (50) BACK TO BACK & (2) 600T200-68 (50) TOP & BOTTOM (HEAD) SEE C2/S3.1
SILL = 600T350-68 (50) SEE B2/S3.1
JAMBS = 600S350-68 (50) BACK TO BACK. SEE C2/S3.1
 - LM6 INDICATES LOAD BEARING (2) 600S300-54 (50) BACK TO BACK & (2) 600T200-54 (50) TOP & BOTTOM (HEAD) SEE C2/S3.1
SILL = 600T300-54 (50) WHERE REQUIRED. SEE B2/S3.1
JAMBS = 600S250-54 (50) BACK TO BACK. SEE C2/S3.1
 - LM INDICATES NON LOAD BEARING. SEE C5/S2.1.
 - FOR CMU LINTEL IN 2 HR. RATED WALL, SEE C4/S2.1.
 - FOR W8 STEEL LINTEL IN (E) WALL, SEE A3/S2.1.



STEEL BRICK LINTEL - MAX. HT. (FT.) ALLOWED FOR SINGLE BRICK WYTHE (3-5/8" BRICK @ 36 pcf (WALL SURFACE))		CLEAR SPAN FOR OPENING											
		*ANGLE SIZE	WEIGHT	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'
L3X3X1/4	5.0	25.5	13.7	7.0	4.0	2.4	1.6	1.1					
L3X3X5/16	6.0		16.7	8.5	4.8	3.0	1.9	1.3					
L3X3X3/8	7.0		19.5	9.9	5.6	3.5	2.3	1.5	1.1				
L3.5X3.5X1/4	5.8		11.4	6.5	4.0	2.6	1.8	1.3					
L3.5X3.5X5/16	7.2		13.8	7.9	4.9	3.2	2.2	1.6	1.1				
L3.5X3.5X3/8	8.5		16.2	9.3	5.8	3.8	2.6	1.8	1.3				
L4X3X1/4	6.0		15.7	9.0	5.6	3.7	2.6	1.8	1.3				
L4X3X5/16	7.0		11.0	6.9	4.5	3.1	2.2	1.6					
L4X3X3/8	8.0		12.9	8.0	5.3	3.7	2.6	1.9					
L4X3.5X1/4	6.2		9.5	5.9	3.9	2.7	1.9	1.4	1.0				
L4X3.5X5/16	7.7		11.6	7.2	4.8	3.3	2.3	1.7	1.3				
L4X3.5X3/8	9.1		13.6	8.5	5.6	3.9	2.7	2.0	1.5				
L5X3X1/4	7.0		16.7	10.5	7.0	4.8	3.5	2.6	1.9				
L5X3X5/16	8.0		12.8	8.5	5.9	4.3	3.1	2.4					
L5X3X3/8	10.0		15.1	10.0	7.0	5.0	3.7	2.8					
L5X3X3.5X1/4	7.0		11.1	7.3	5.1	3.7	2.7	2.0					
L5X3.5X5/16	8.7		13.5	9.0	6.2	4.5	3.3	2.5					
L5X3.5X3/8	10.4		16.0	10.6	7.4	5.3	3.9	2.9					
L6X4X5/16	10.0		15.7	10.9	7.9	5.9	4.4						
L6X4X3/8	12.0		18.5	12.9	9.3	6.9	5.3						

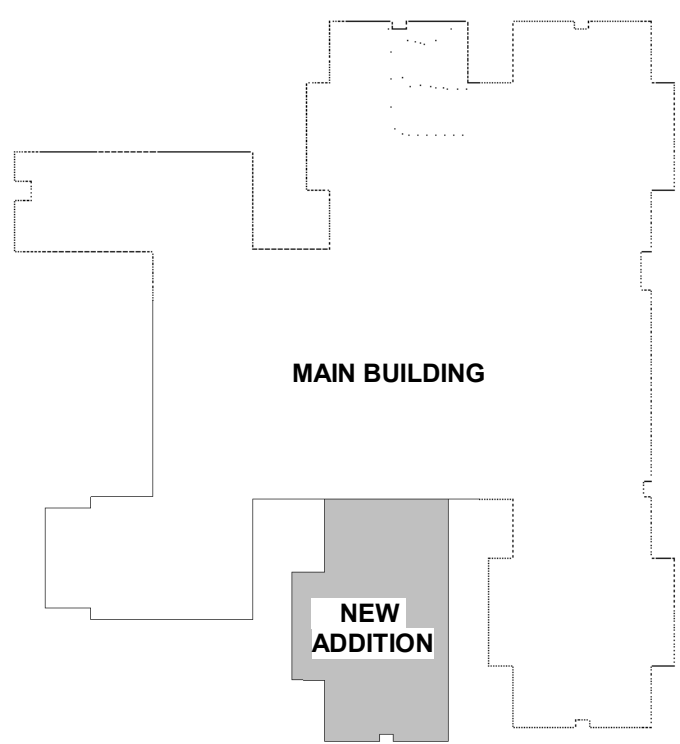
* ANGLE ORIENTATION IS LONG LEG VERTICAL (LLV).



NOTE:
L7X4X3/8 (LLH) IS MAX. SIZE ANGLE. G.C. TO USE ANGLE LENGTH THAT WILL STOP 1/2" FROM OUTSIDE FACE OF BRICK VENEER. POSTS REQUIRED FOR HSS LINTELS.

BRICK LINTEL SECTION

KEY PLAN

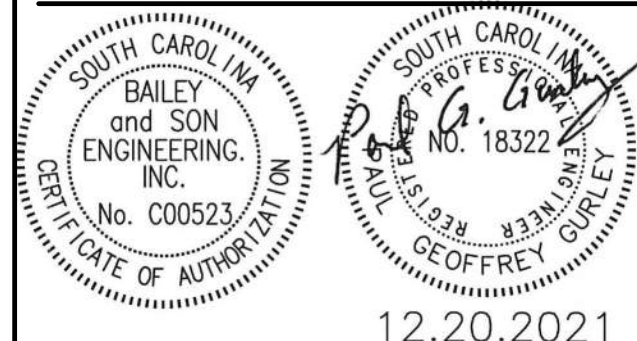


SPARTANBURG COUNTY SCHOOL DISTRICT THREE CANNONS ELEMENTARY SCHOOL CLASSROOM ADDITION AND INTERIOR RENOVATION

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pazdan
smith
ARCHITECTURE

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SHEET ISSUE:
NO. DATE DESCRIPTION BY
0 12/20/2021 100% CONSTRUCTION PGG
DOCUMENTS JSD

PRINCIPAL IN CHARGE:
PROJECT ENGINEER:
DRAWN BY:
PGG
PGG
JSD

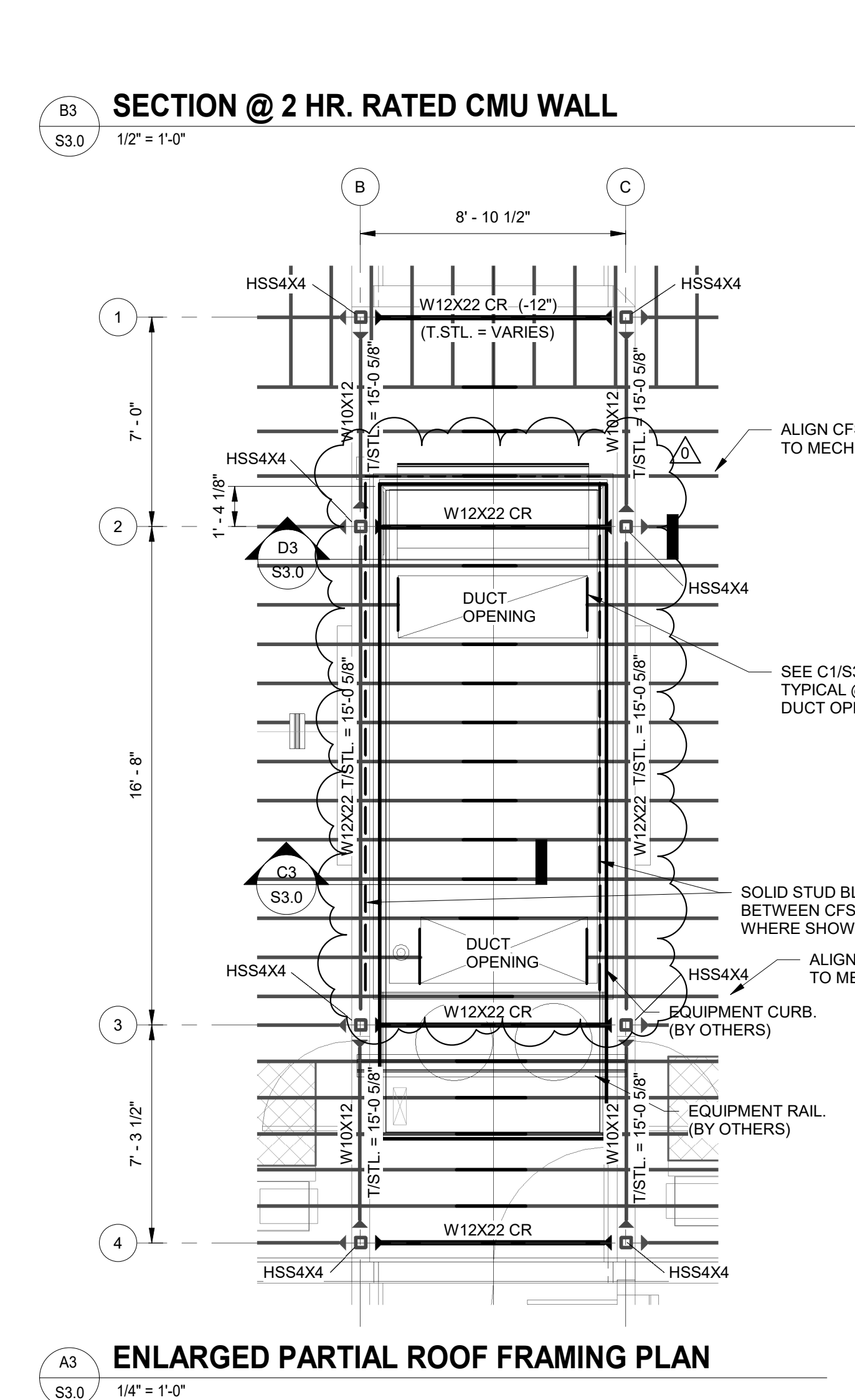
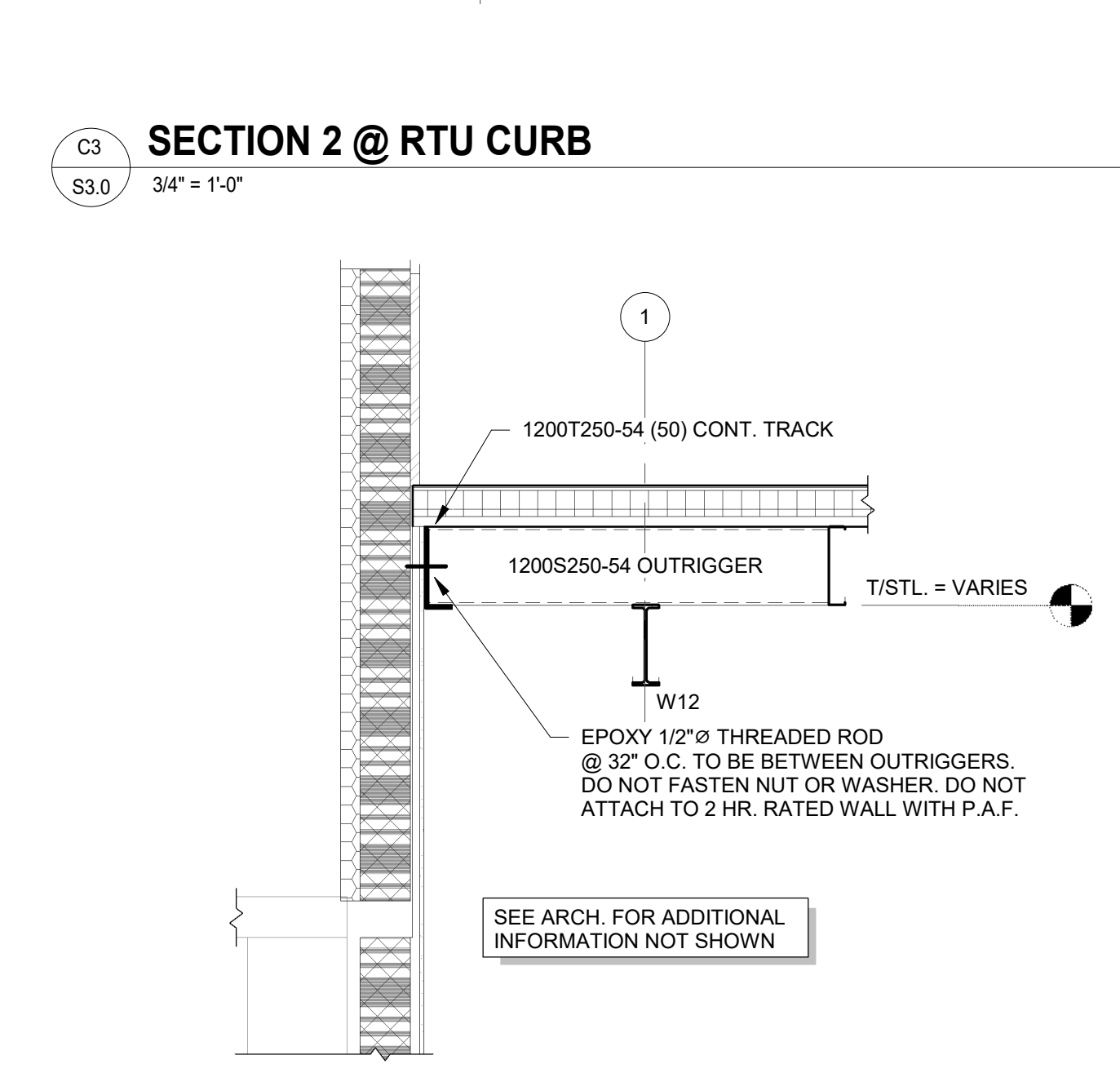
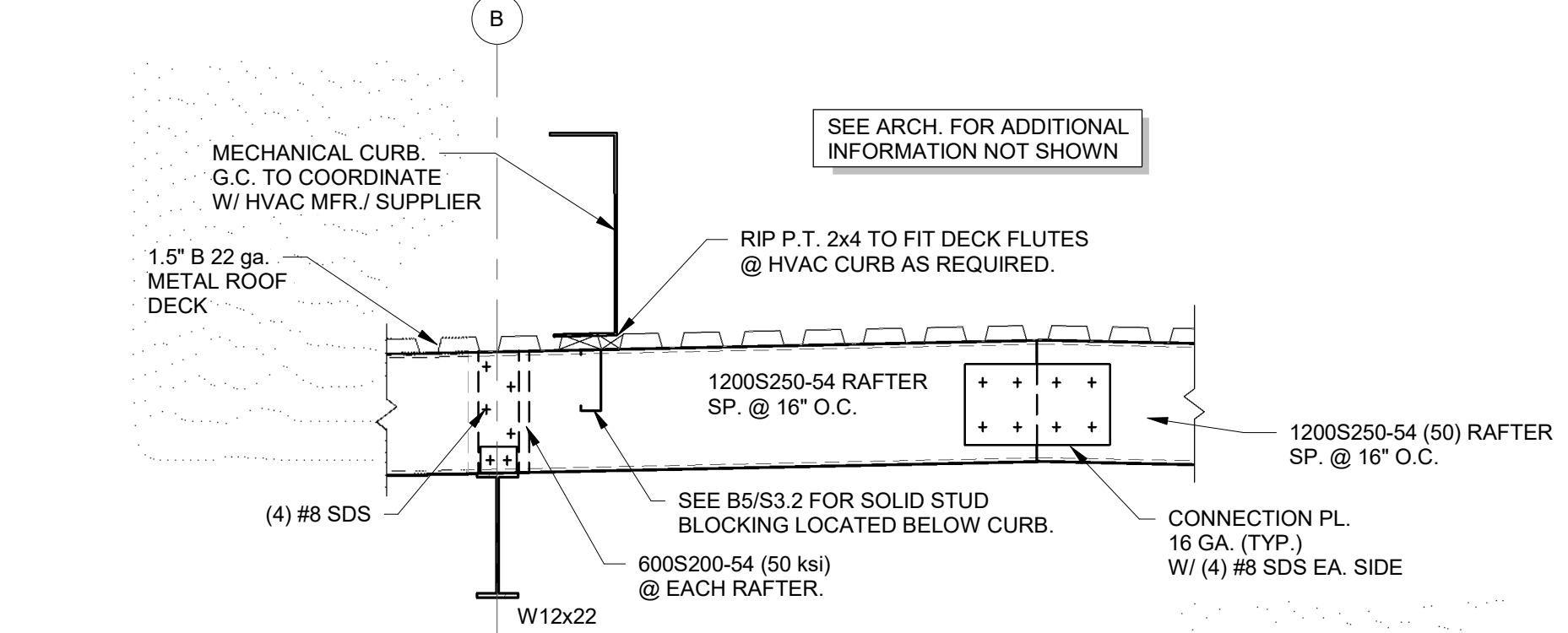
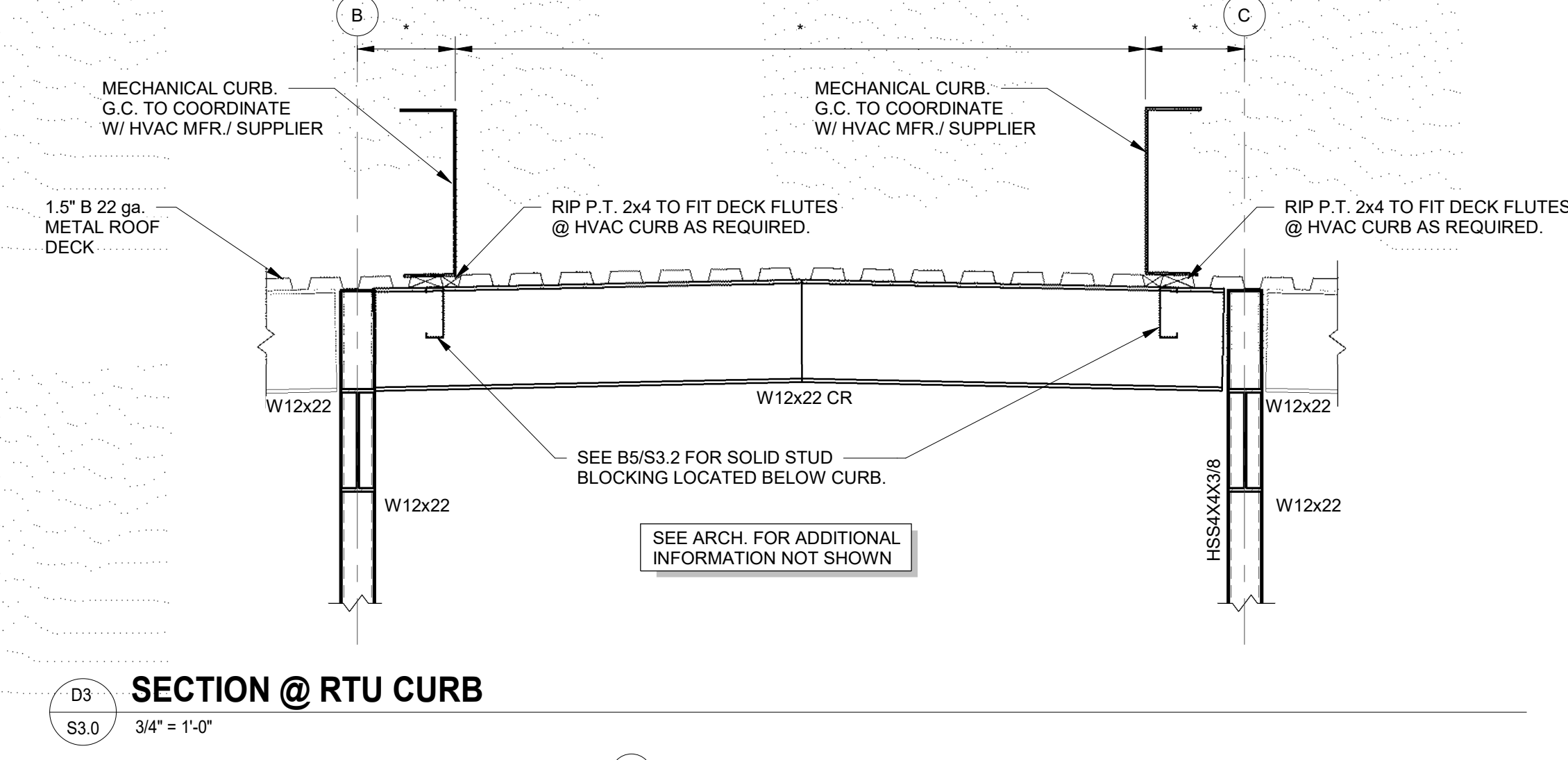
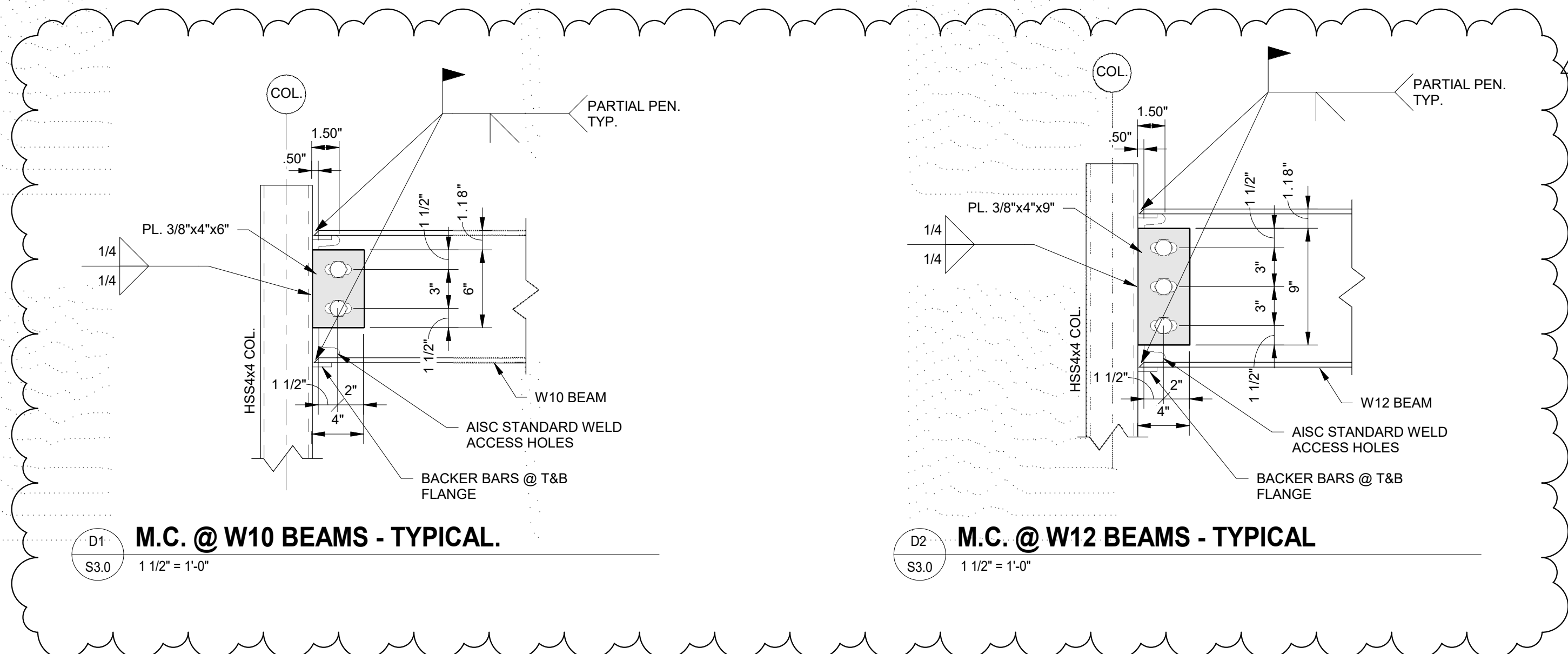
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LINTEL PLAN

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PROJ. NO.
21263

S2.0

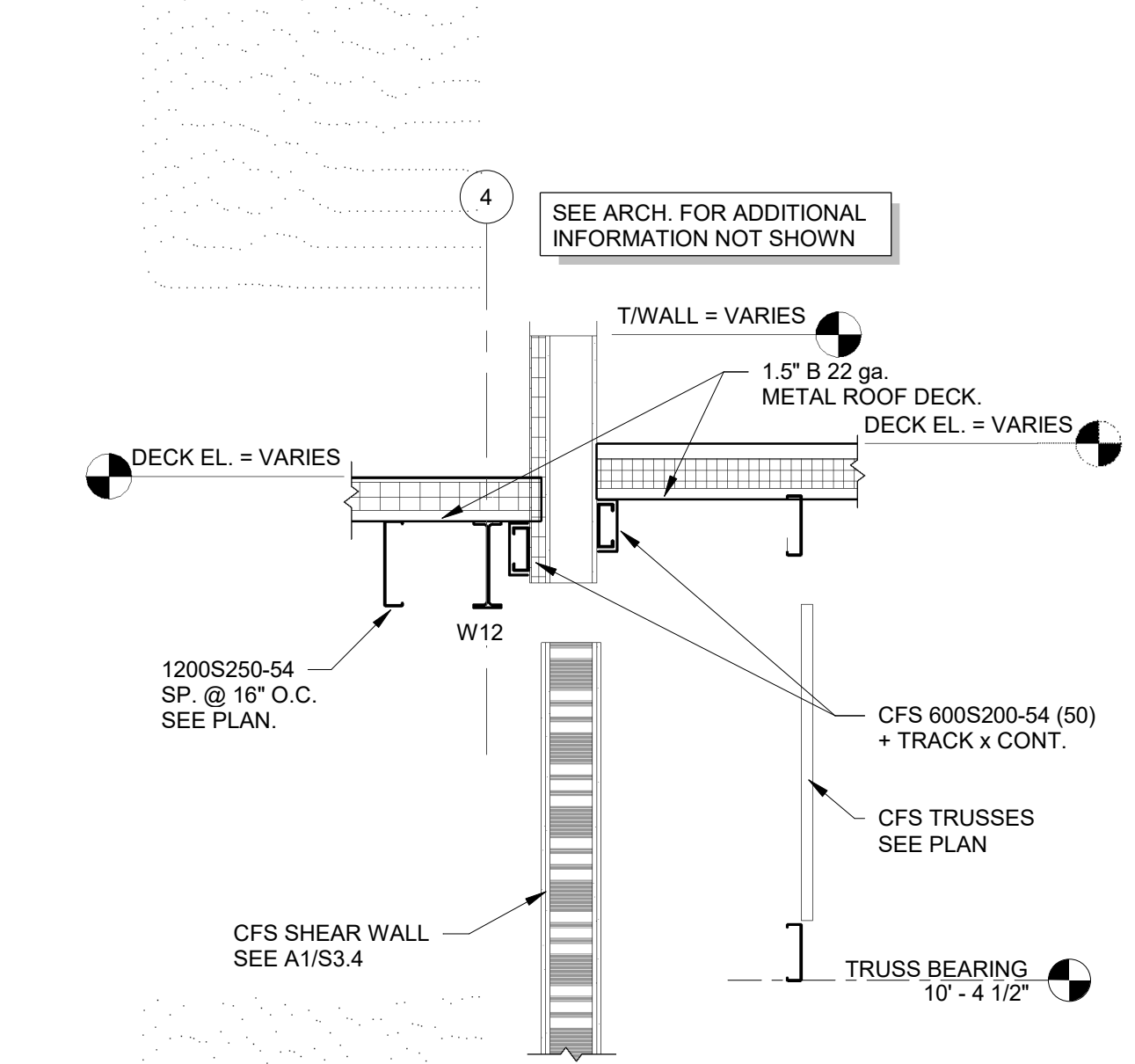


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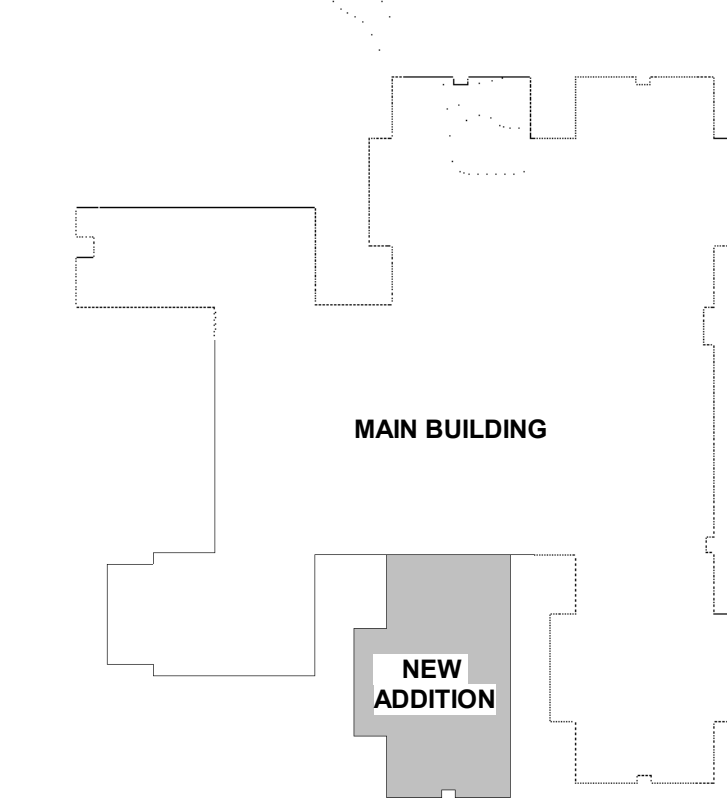


- FRAMING NOTES:**
- SEE DRAWINGS S0.01 & S0.02 FOR PROJECT NOTES AND DESIGN CRITERIA (UNO).
 - BEAM CONNECTIONS SHALL BE DESIGNED PER NOTE 4 UNDER "STRUCTURAL STEEL NOTES" ON DWG. S0.01.
 - CONTRACTOR SHALL VERIFY DIMENSIONS SHOWN ON THIS PLAN WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY FABRICATION OR CONSTRUCTION. FOR LOCATIONS, AND PLAN DIMENSIONS OF WALLS OTHERWISE NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
 - PROVIDE WALL BRACING FOR ALL INTERIOR WALLS WHOSE PLAN DIMENSIONS AND CONFIGURATION CREATE A CLEAR UNBRACED LENGTH GREATER THAN 10'-0" BETWEEN INTERSECTING WALLS. PROVIDE 600S137-54 (50) BRACE AT 1:1 SLOPE SP. @ 6'-0" CENTERS AND CONNECTING TO BOTTOM CHORD OF CFS TRUSSES.
 - ROOF DECK SHALL BE 1 1/2" DEEP, 22 GAGE, WIDE RIB (TYPE B) GALV. WIG-90 COATING, UNLESS NOTED OTHERWISE. SEE C2/S4.05 FOR DECK DIRECTION CHANGES.
 - SHIFT JOIST PARALLEL W/ FULL-HEIGHT WALLS AS REQ'D. TO AVOID INTERFERENCE W/ WALL WHILE MAINTAINING 4'-0" O.C. SPACING ON ROOF TRUSSES UNO.
 - GENERAL CONTRACTOR SHALL PROVIDE 16 GAGE BENT PLATES ABOVE & BELOW DECK AT RIDGES, VALLEYS, HIPS, AND EAVES AS NECESSARY TO PROVIDE CONTINUOUS SUPPORT FOR ENDS AND EDGES OF METAL DECK. PROVIDE RAKE ANGLE AT ALL GABLE END WALLS, UNLESS OTHERWISE NOTED.
 - SEE DETAIL A1/S3.2 FOR DECK FASTENING PATTERN.
 - MECH. ROOF-TOP UNITS - SEE HVAC DRWGS. PROVIDE ADD'L SUPPORT FRAMING AS NEEDED. TRUSS MANUFACTURER SHALL DESIGN TRUSS FOR ADD'L LOADING DUE TO ROOF-TOP UNIT. GENERAL CONTRACTOR SHALL COORDINATE UNIT INFORMATION WITH TRUSS MANUFACTURER.
 - FOR FIRE-RATED WALLS OR BARRIERS, SEE ARCH. DWGS.
 - SEE ARCH. FOR DECK EDGE DIMENSIONS. PROVIDE TOP CHORD EXTENSIONS AS NEEDED.
 - GENERAL CONTRACTOR TO SUPPLY DIMENSIONS FOR ALL ROOF OPENINGS NOT SIZED TO STEEL FABRICATOR UPON PURCHASE OF EQUIPMENT.
 - G.C. TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DIMENSIONS.
 - CR = CRIPPLED TO ROOF PROFILE. T/STL = DECK BEARING ELEVATION.
 - G.C/M TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL SLAB/ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.
 - PIPING GREATER THAN 3" DIA. SHALL ONLY BE FASTENED TO WIDE FLANGE BEAMS.

- FRAMING LEGEND**
- 2 HR. FIRE BARRIER - SEE DETAILS AS INDICATED ON PLAN & ARCH. FOR ADD'L INFO.
 - T.B.E. = TRUSS BEARING ELEVATION.
 - VWA = VERIFY W/ ARCHITECTURAL.
 - X-BRACING (HSS OR FLAT STRAP)
 - B.O.D. = BOTTOM OF DECK.
 - D.B.E. = DECK BEARING ELEVATION.
 - MOMENT CONNECTION.



KEY PLAN



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SOUTH CAROLINA PROFESSIONAL ENGINEERING
BAILEY AND SON ENGINEERING, INC.
No. C00523
DATE OF AUTHORITY 12.20.2021

SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL CLASSROOM
ADDITION AND INTERIOR RENOVATION
SPARTANBURG, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
0	12/20/2021	100% CONSTRUCTION PGG DOCUMENTS & REMOVED RTU CURB FRAMING	PGG JSD

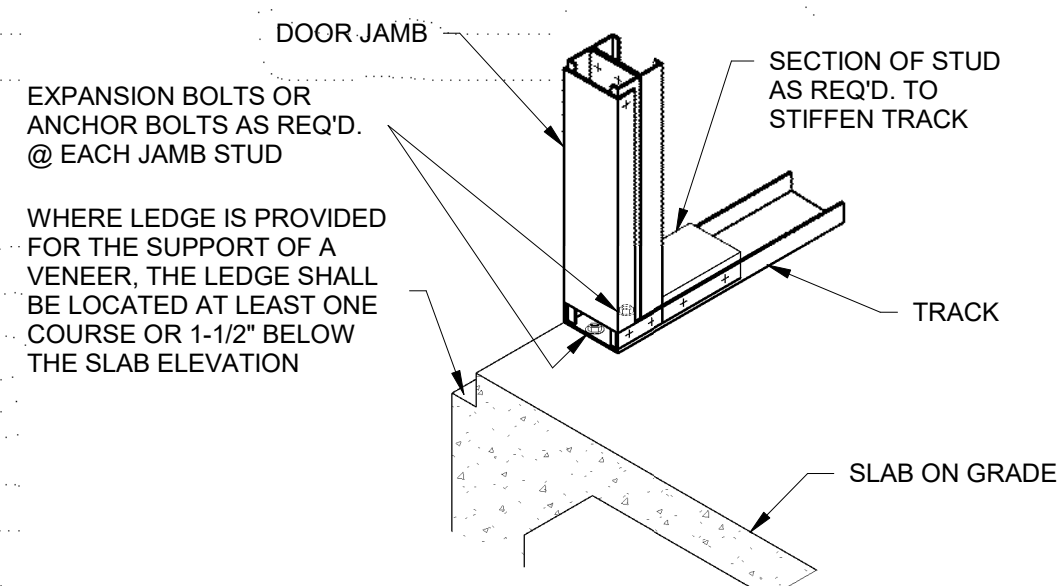
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PROJECT ENGINEER:
DRAWN BY:

SHEET TITLE:
ROOF PLAN

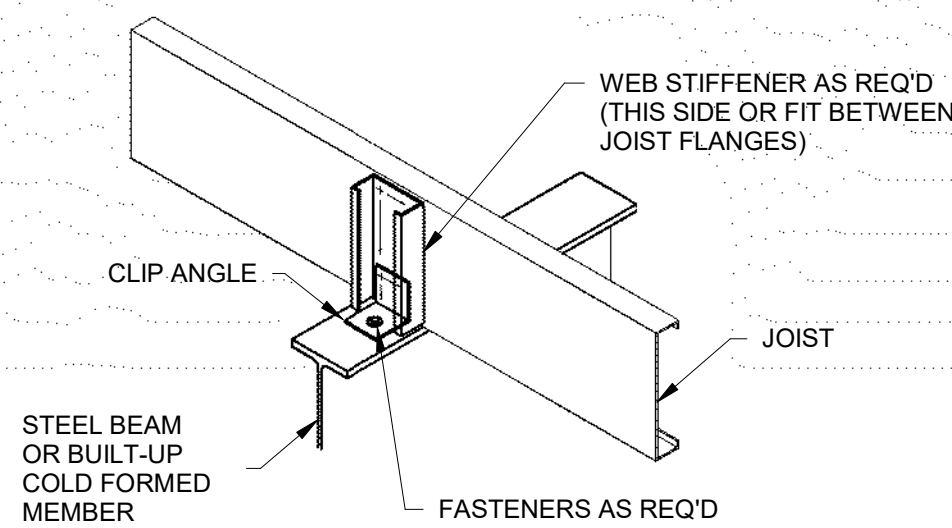
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S3.0

PROJ. NO.
21263

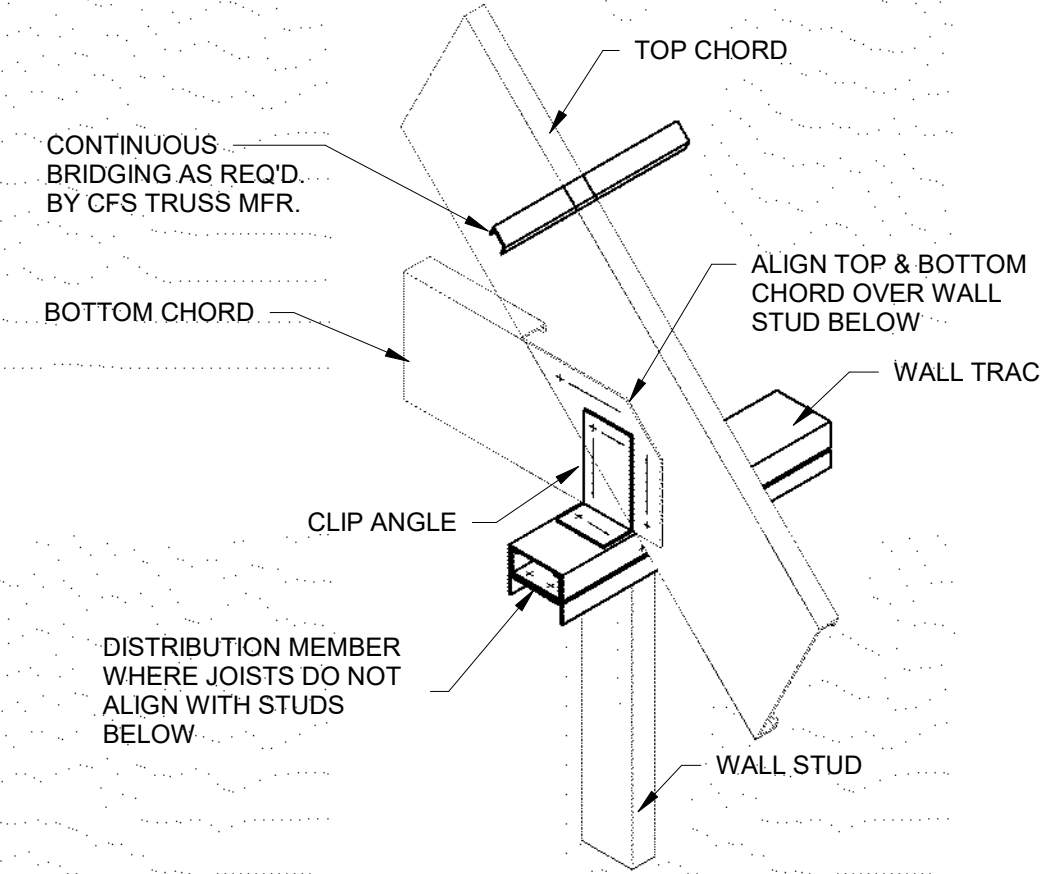
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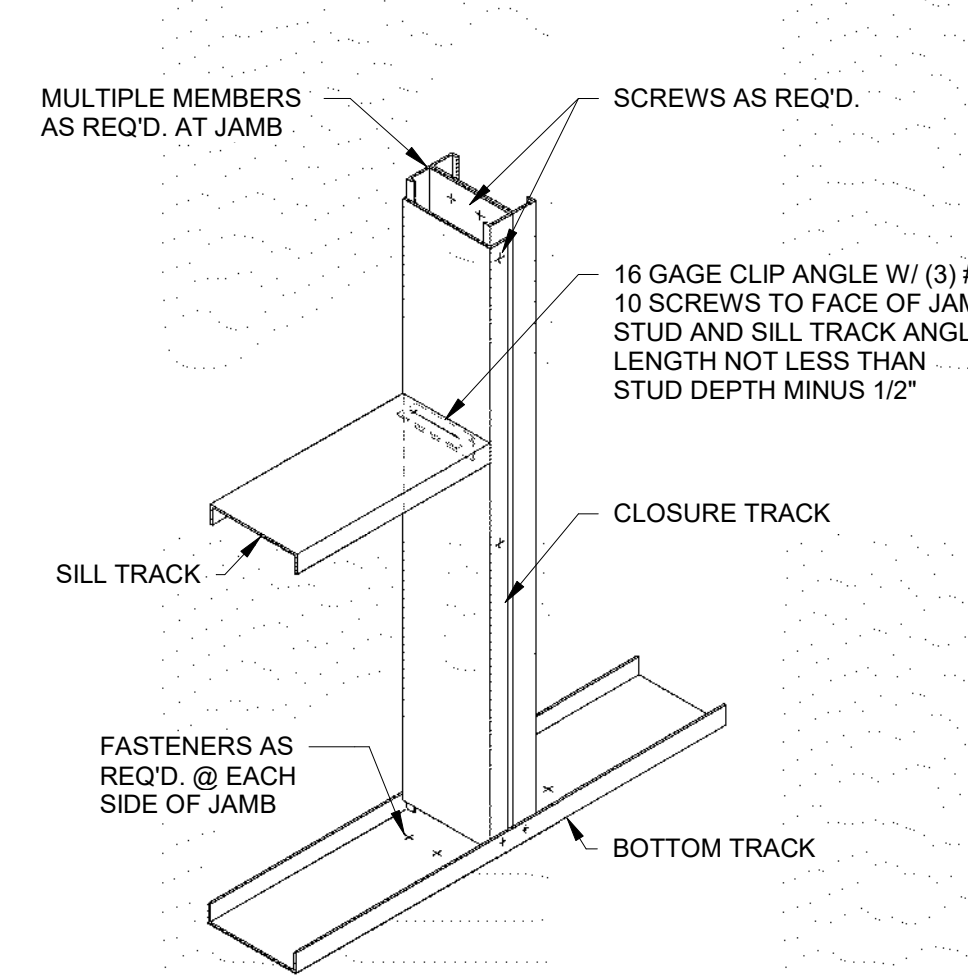
D1 CFS- DOOR JAMB BASE AT SLAB ON GRADE DETAIL
S3.1 1" = 1'-0"



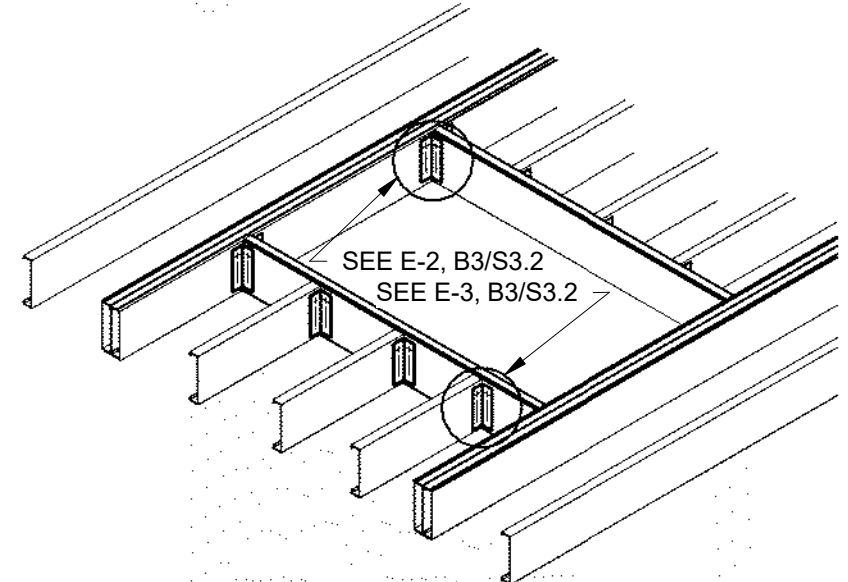
D2 CFS- JOISTS OVER BEAM (CONTINUOUS SPAN) DETAIL
S3.1 1" = 1'-0"



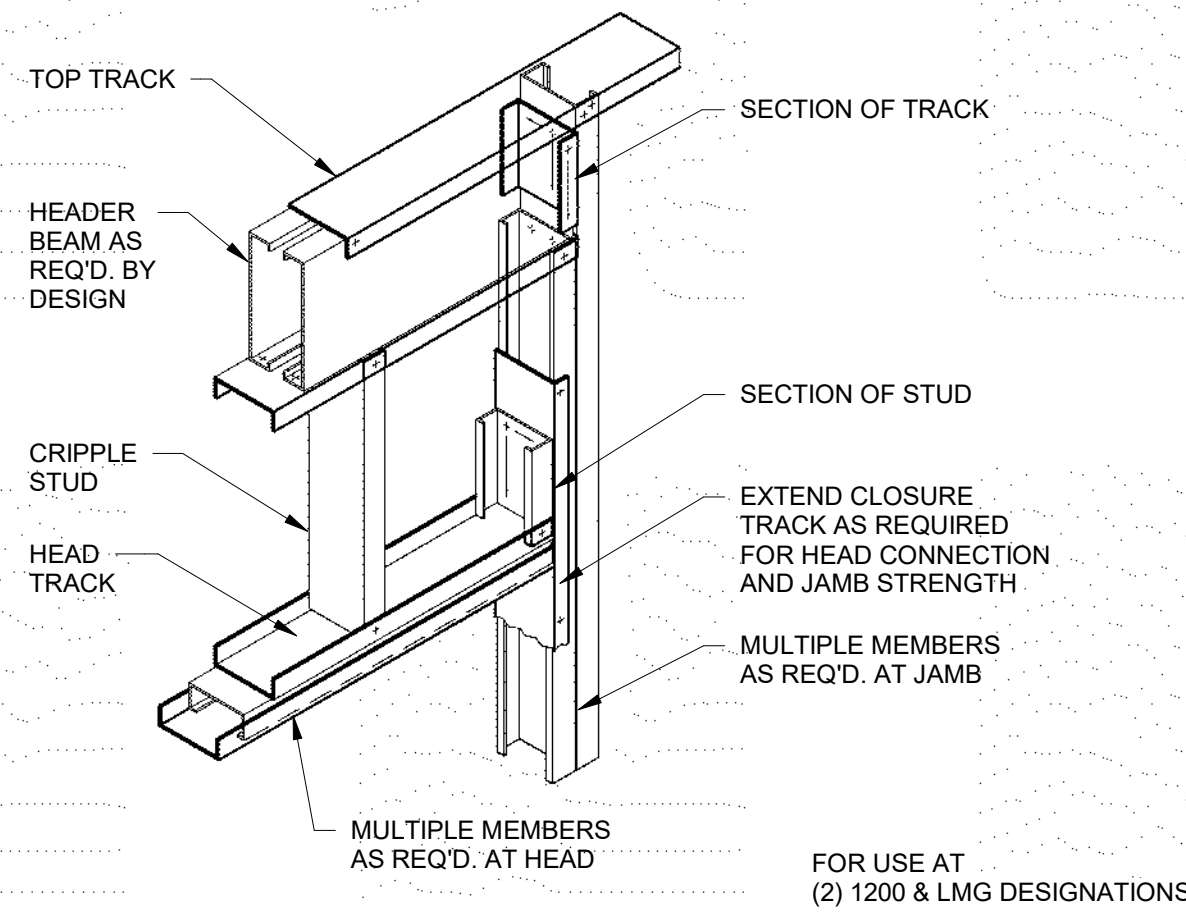
D3 CFS- ROOF TRUSS EAVE DETAIL
S3.1 1" = 1'-0"



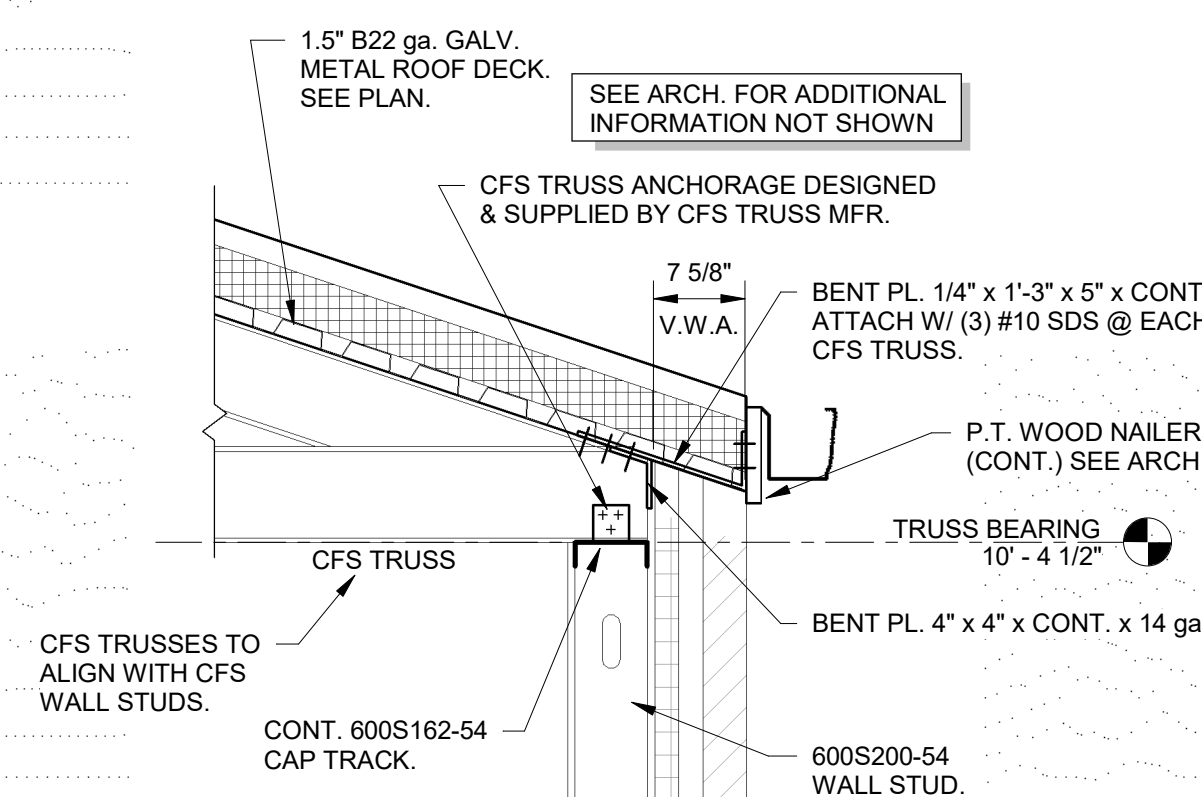
D4 CFS- SILL DETAIL (OPENINGS UNDER 4' - 0")
S3.1 1" = 1'-0"



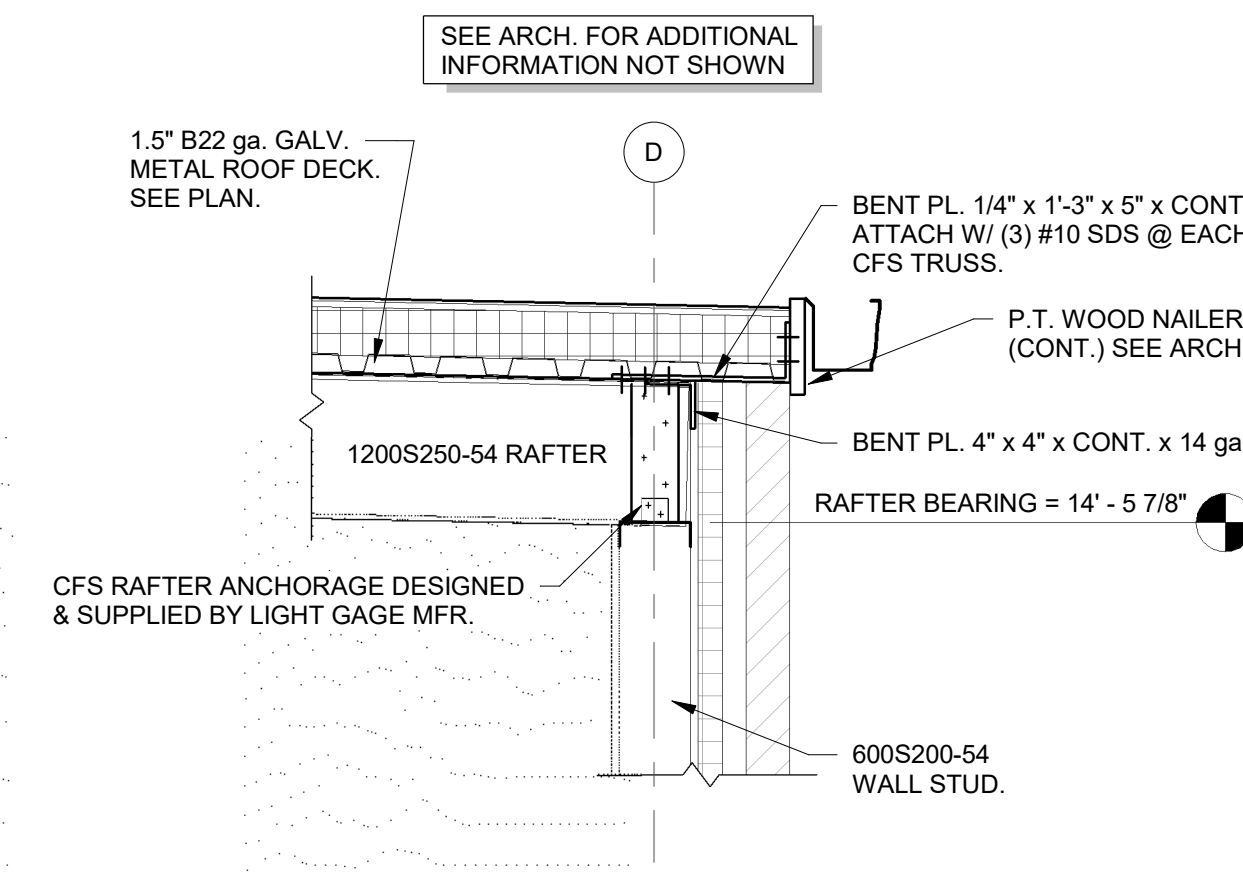
C1 CFS- OPENING IN JOISTS/RAFTERS DETAIL
S3.1 1" = 1'-0"



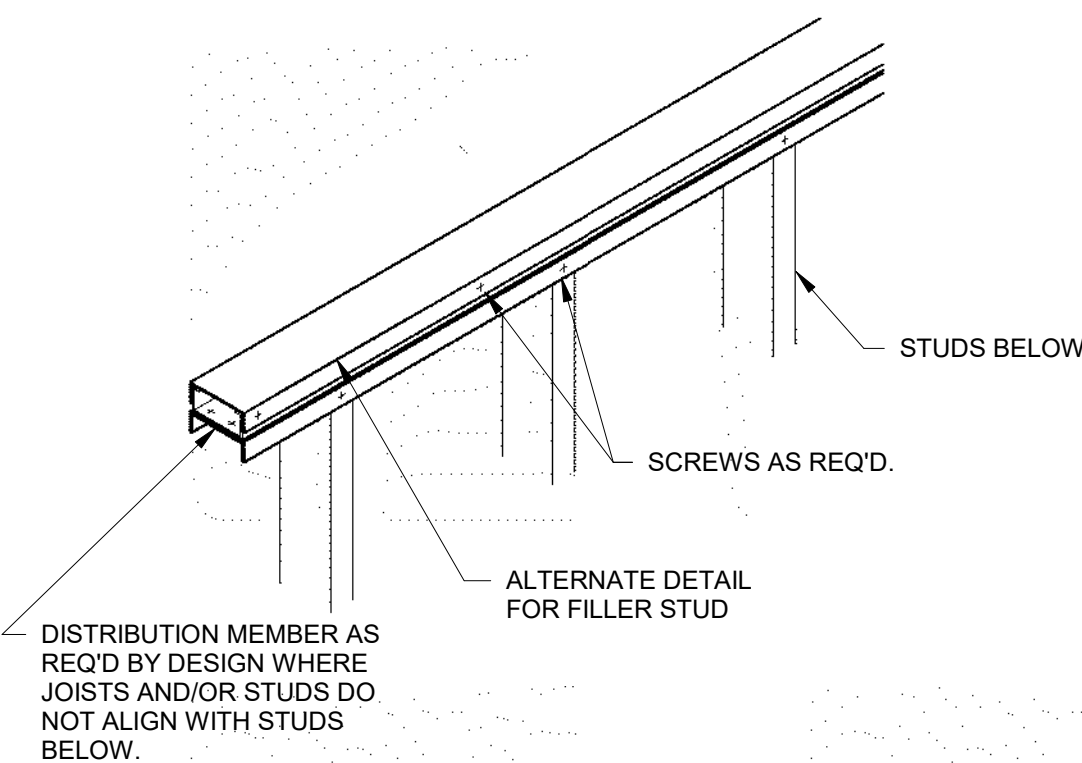
C2 CFS- AXIAL LOAD BEARING JAMB & HEADER DETAIL (OPENING WIDTH OVER 4'-0")
S3.1 1" = 1'-0"



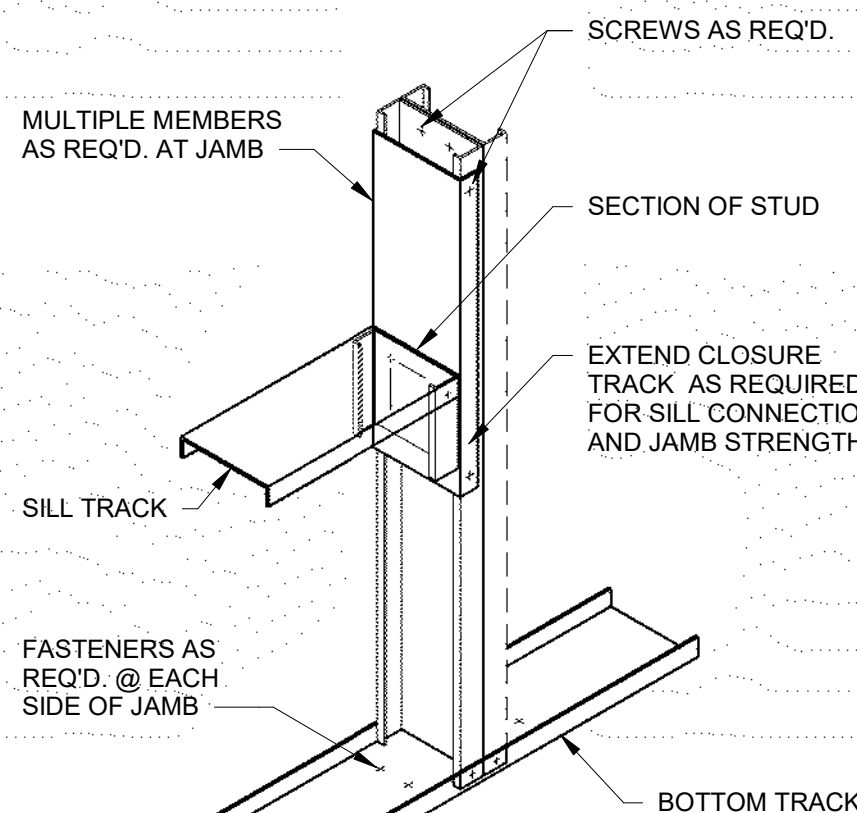
C3 SECTION @ CFS TRUSS EAVE - TYP. @ TRUSS BEARING
S3.1 3/4" = 1'-0"



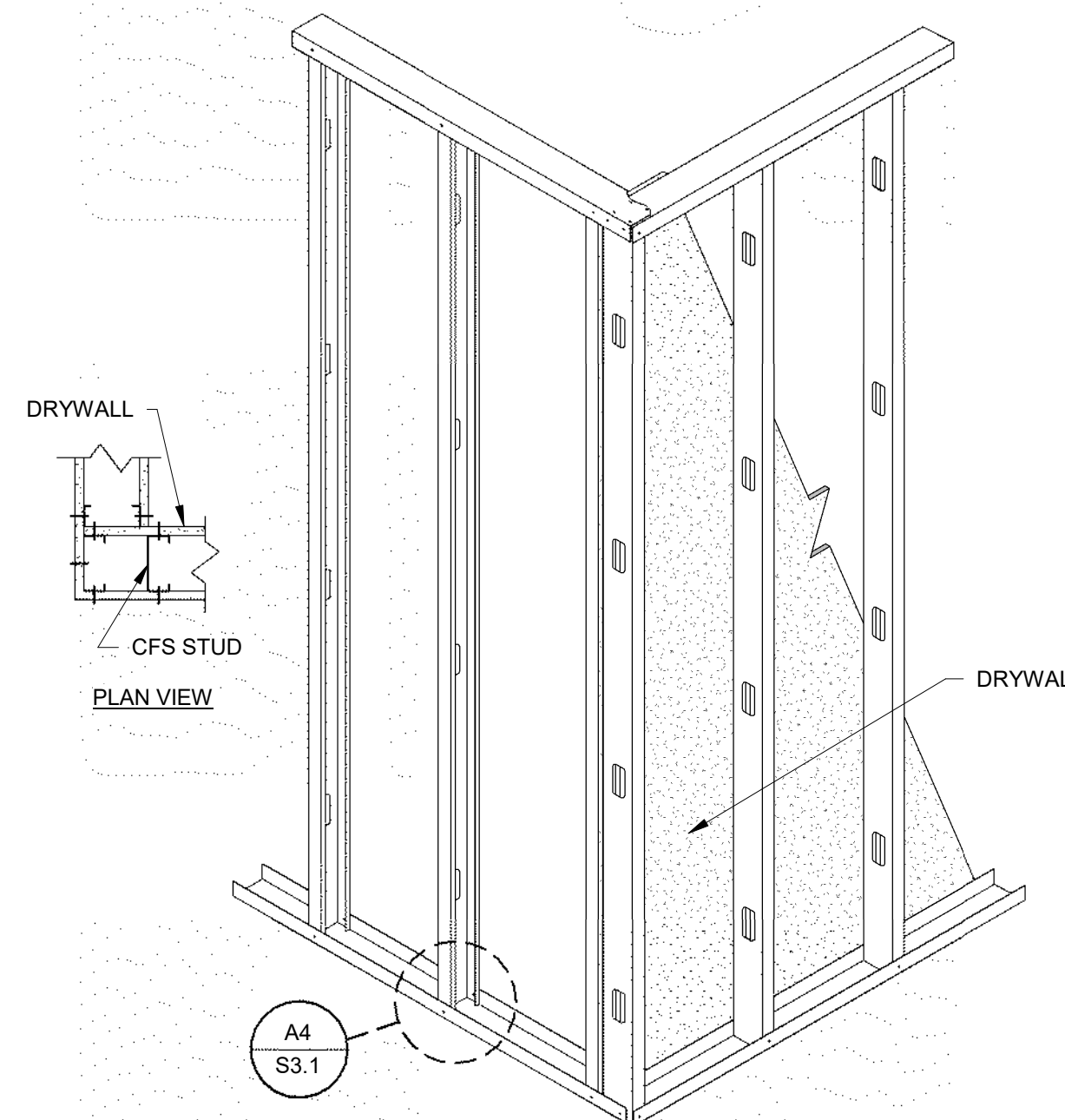
C4 SECTION @ LOW PITCHED ROOF EAVE - TYP. @ CFS RAFTERS
S3.1 3/4" = 1'-0"



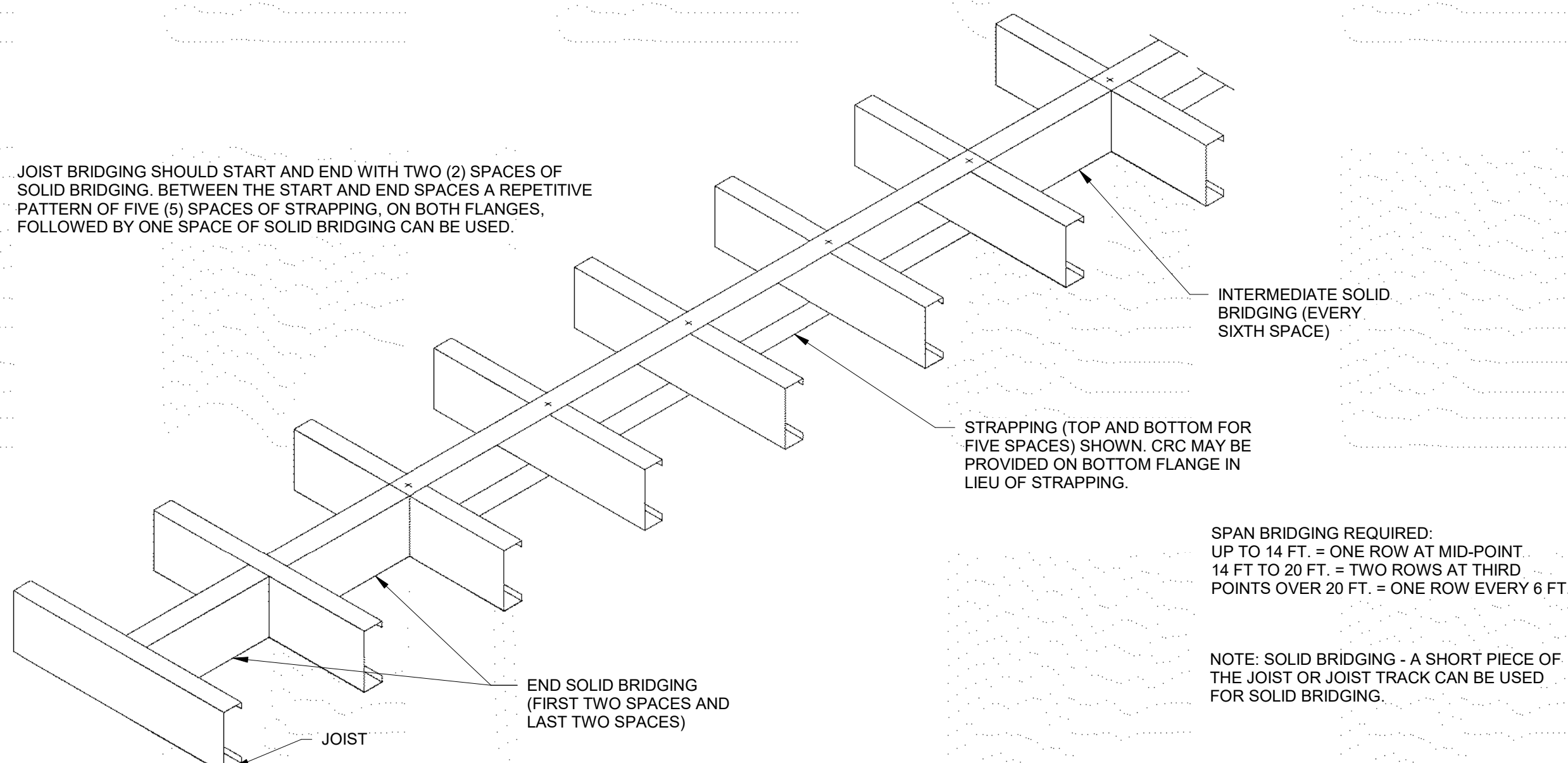
B1 CFS- TOP TRACK DISTRIBUTION MEMBER DETAIL
S3.1 1" = 1'-0"



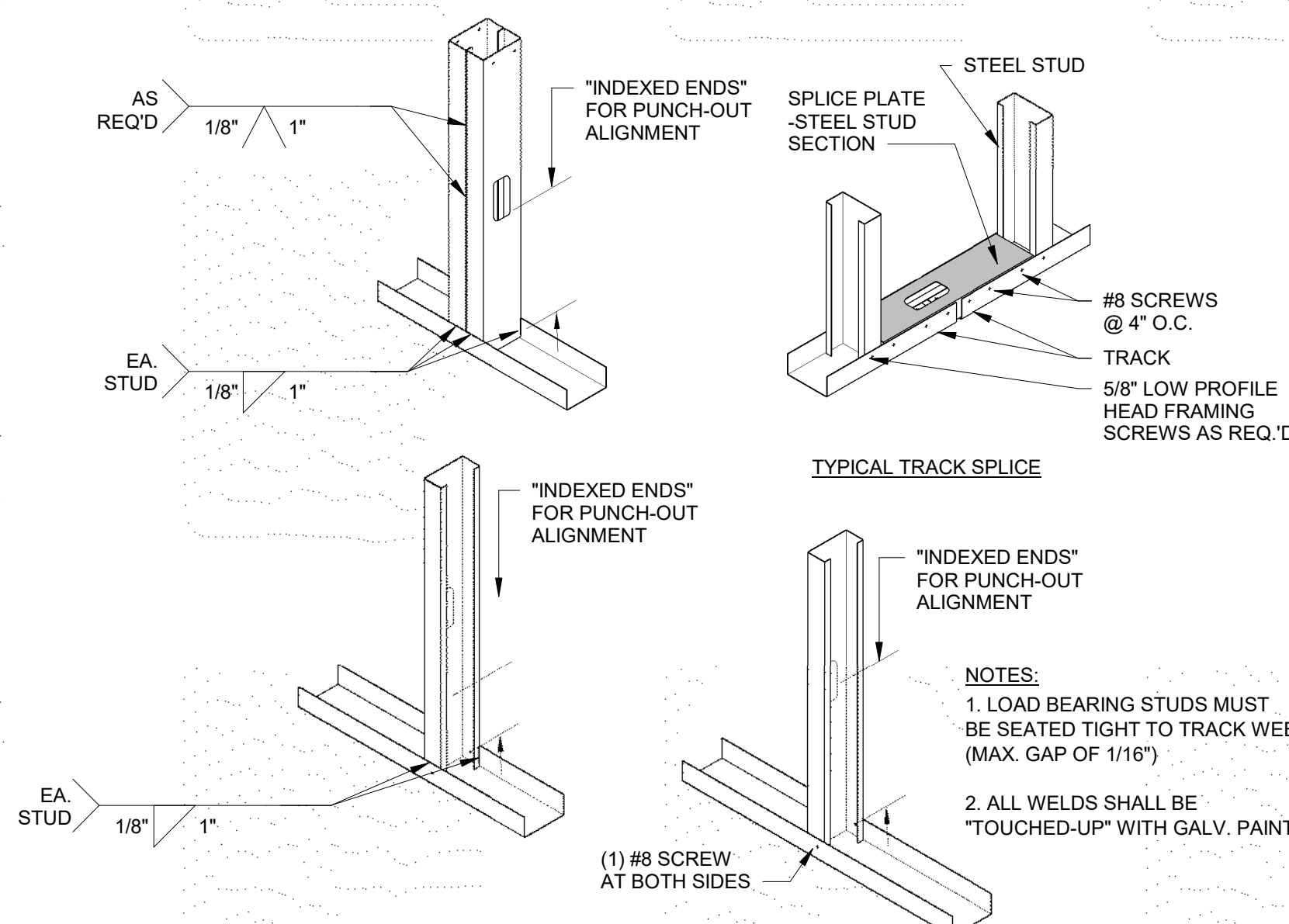
B2 CFS- JAMB & SILL DETAIL (OPENINGS OVER 4'-0")
S3.1 1" = 1'-0"



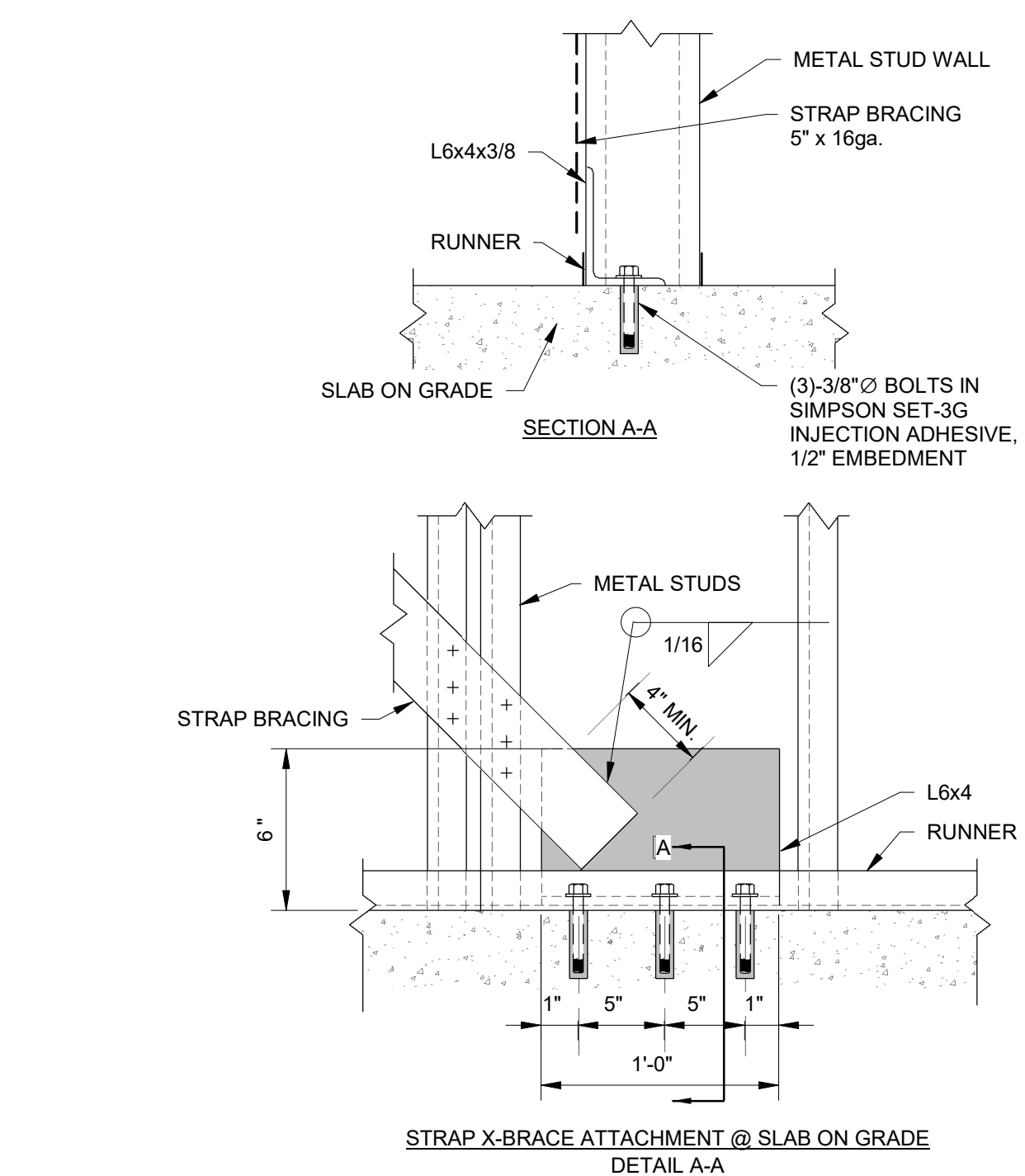
B3 CFS- TYPICAL CORNER DETAIL
S3.1 1" = 1'-0"



A1 CFS- JOIST BRIDGING DETAIL
S3.1 1" = 1'-0"

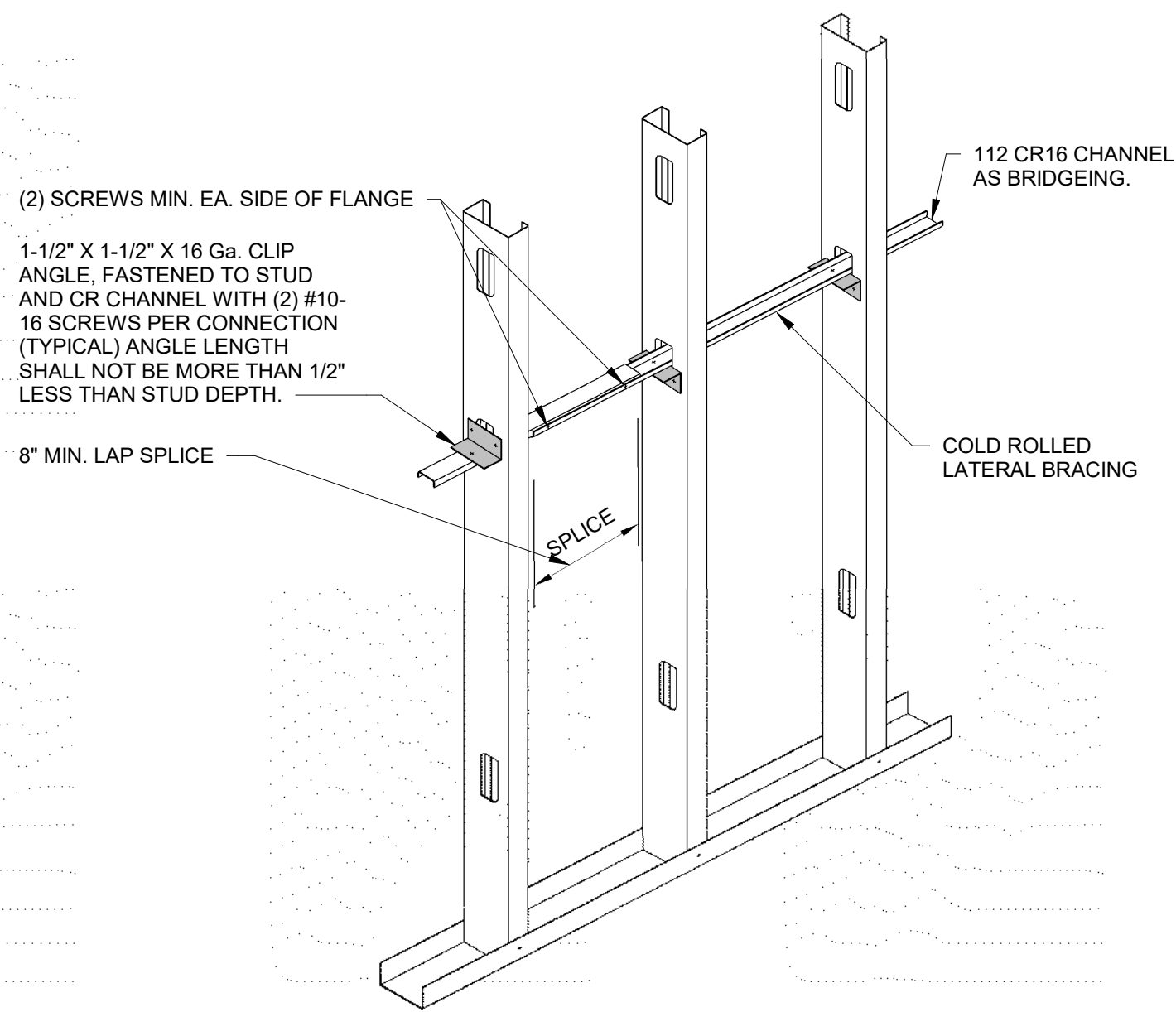


A3 CFS- TYPICAL STUD TO TRACK CONNECTIONS DETAIL
S3.1 1" = 1'-0"



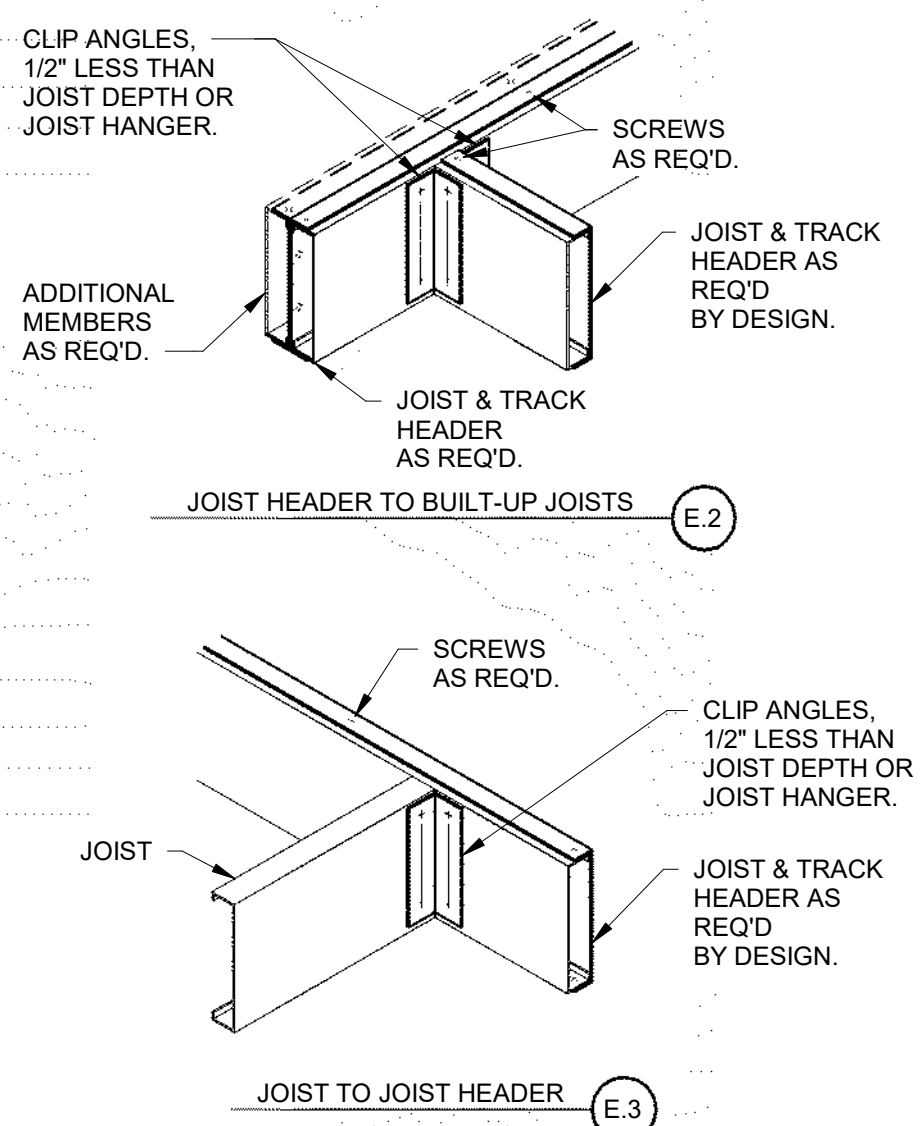
A4 VERTICAL BRACING DETAIL
S3.1 1" = 1'-0"

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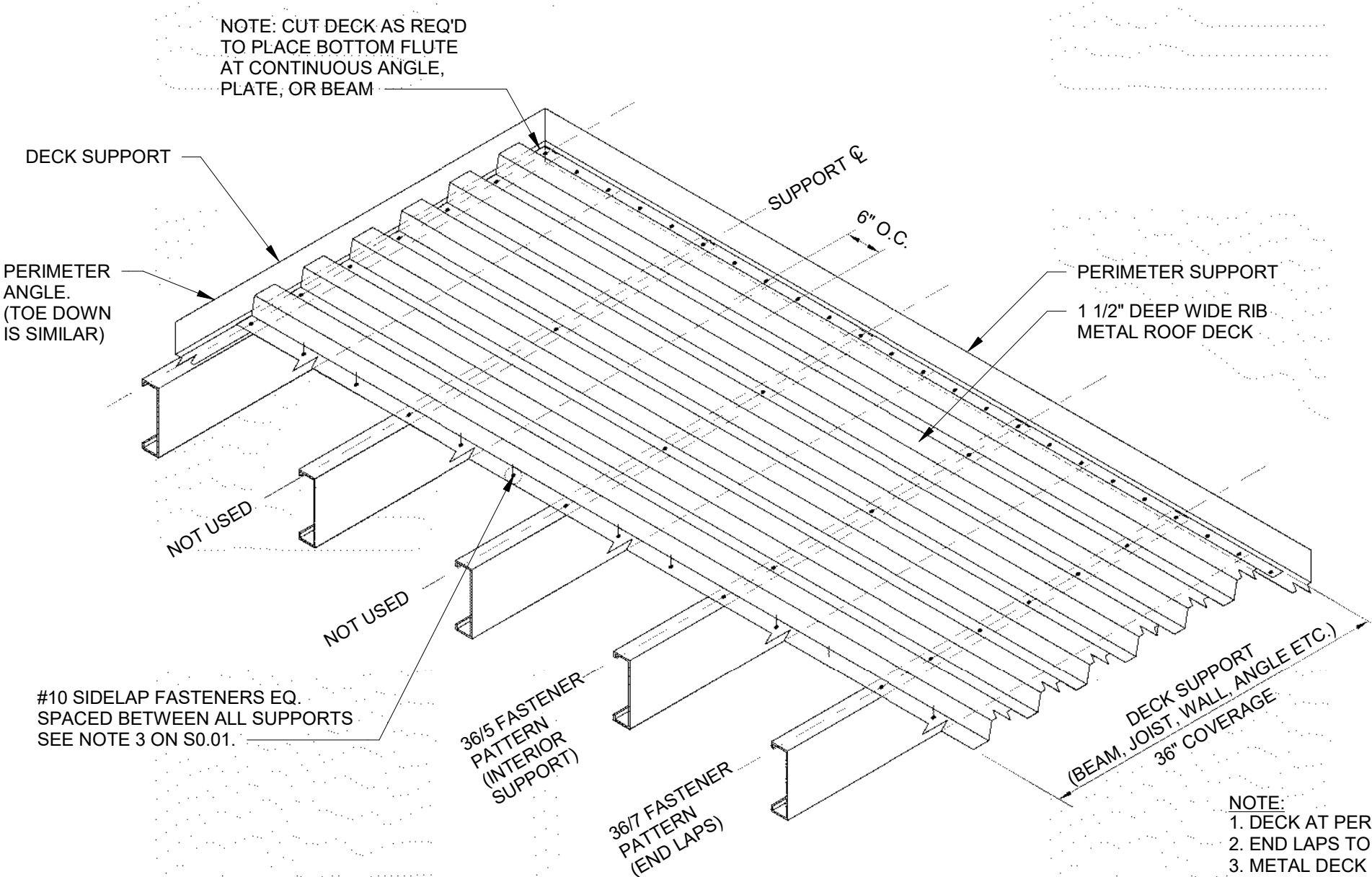
C3
S3.2
1" = 1'-0"

CFS- TYPICAL BRIDGING WITH CLIP ANGLE DETAIL



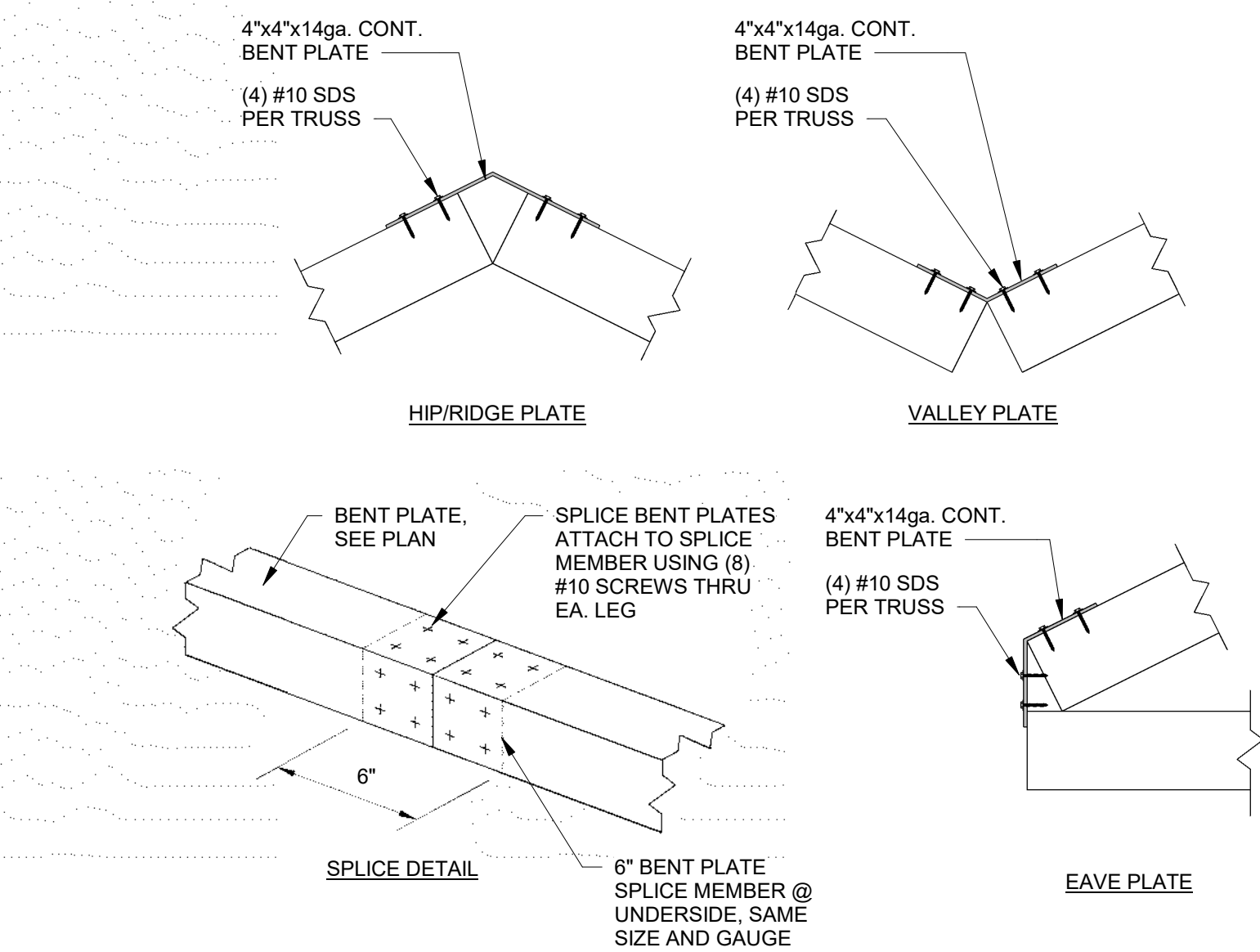
B3
S3.2
1" = 1'-0"

CFS- JOIST HEADER DETAILS



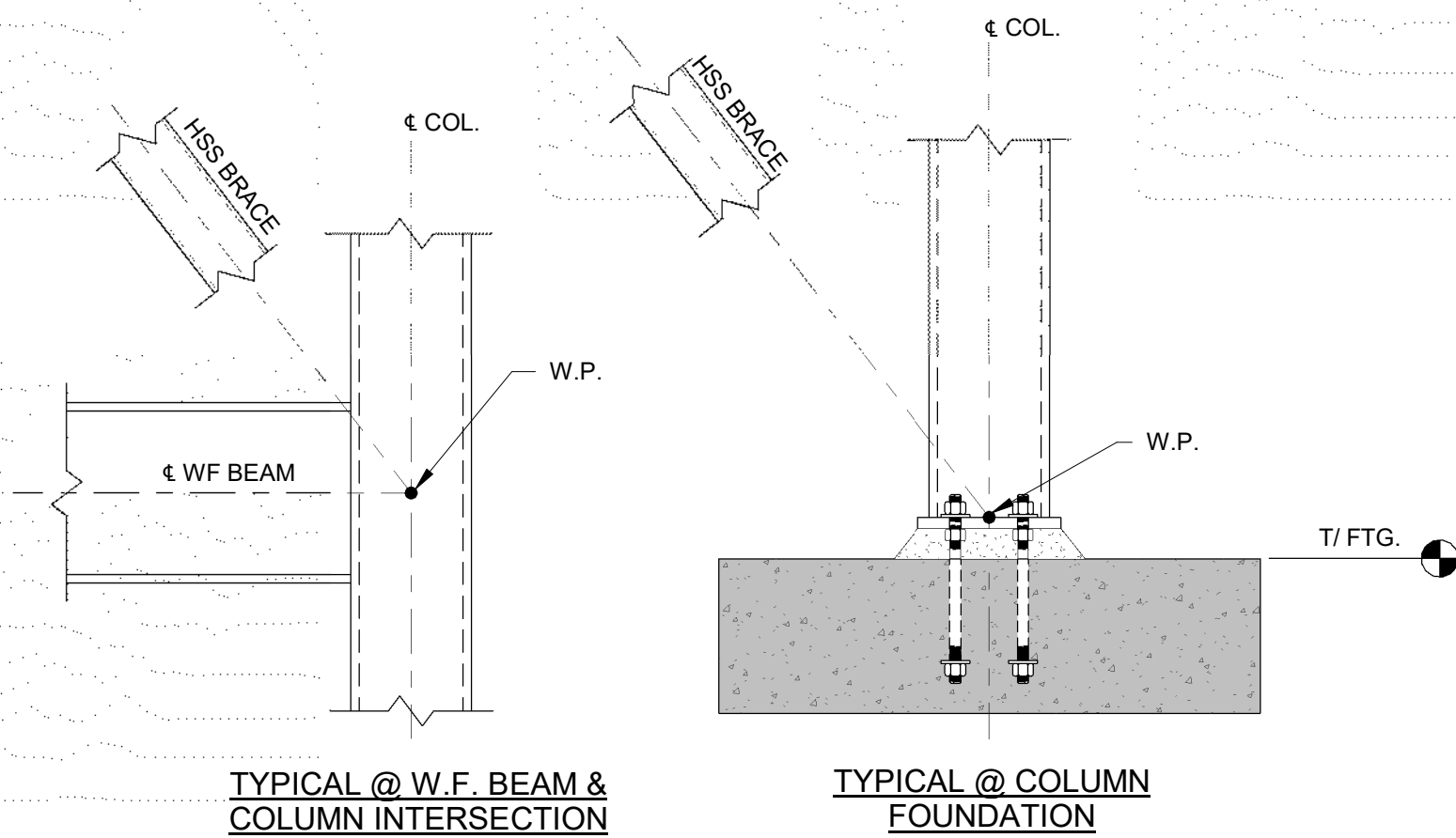
A1
S3.2
1" = 1'-0"

1 1/2" ROOF DECK FASTENING ISOMETRIC DETAIL



C4
S3.2
1" = 1'-0"

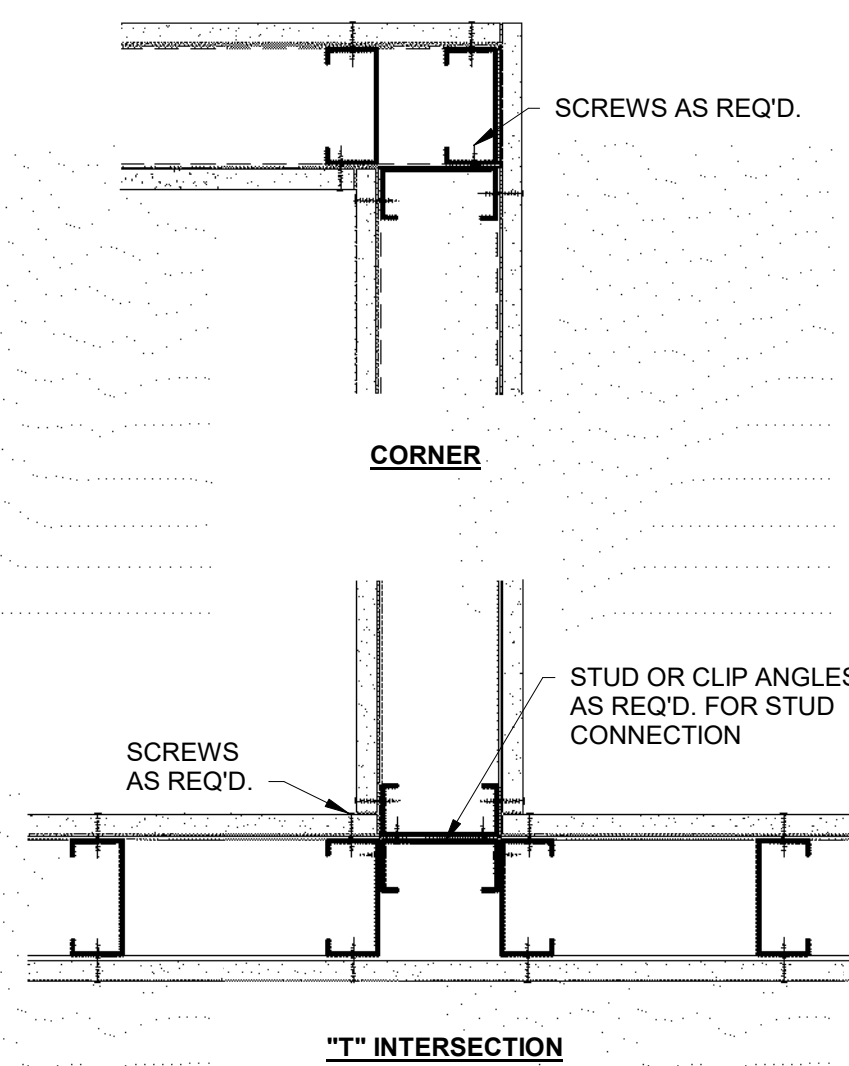
CFS- BENT PLATE DETAIL



NOTE TO FABRICATOR:
STEEL FABRICATOR SHALL PROVIDE MIN. 1/4\"/>

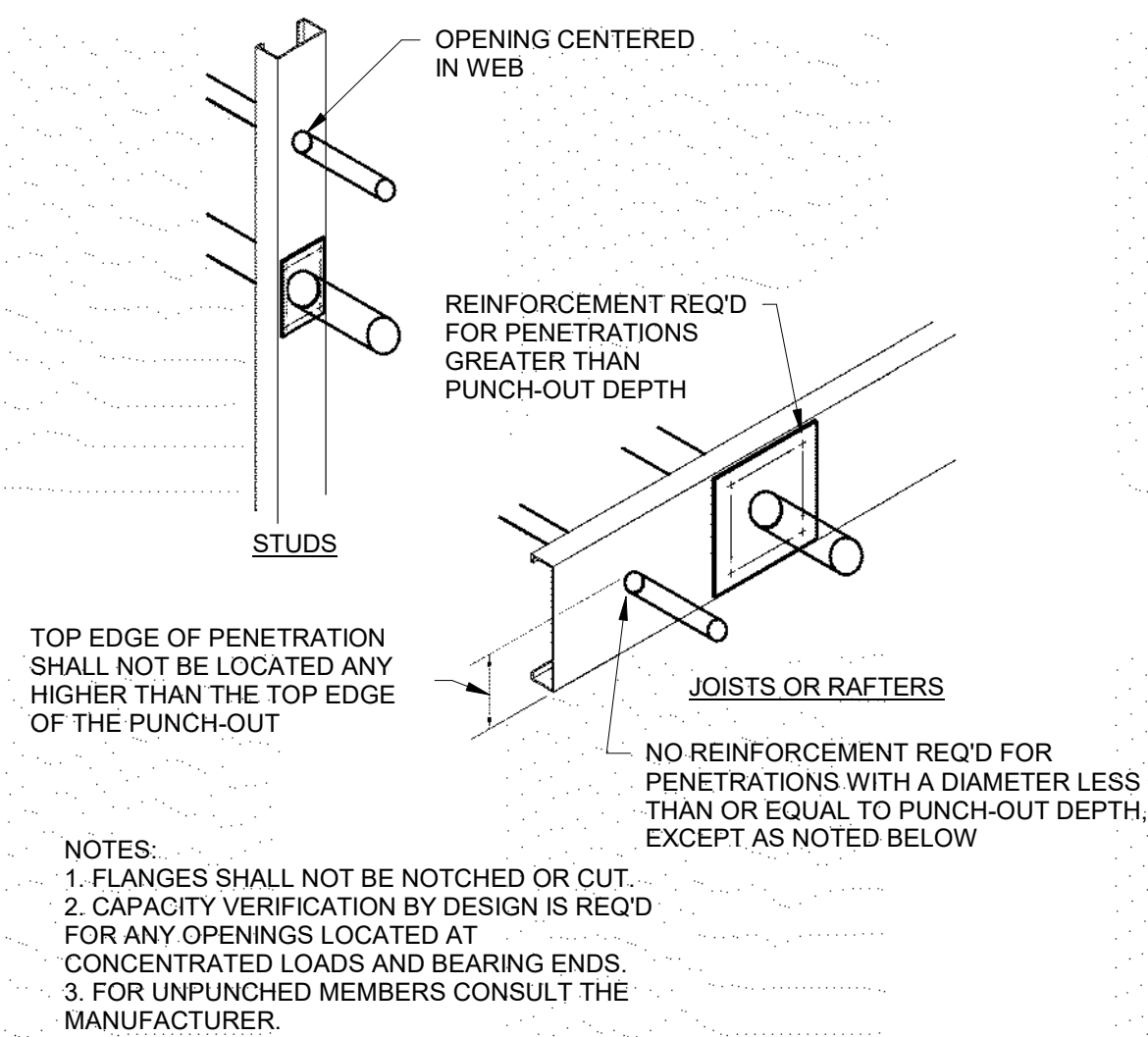
B4
S3.2
1" = 1'-0"

BRACED FRAME WORK POINTS



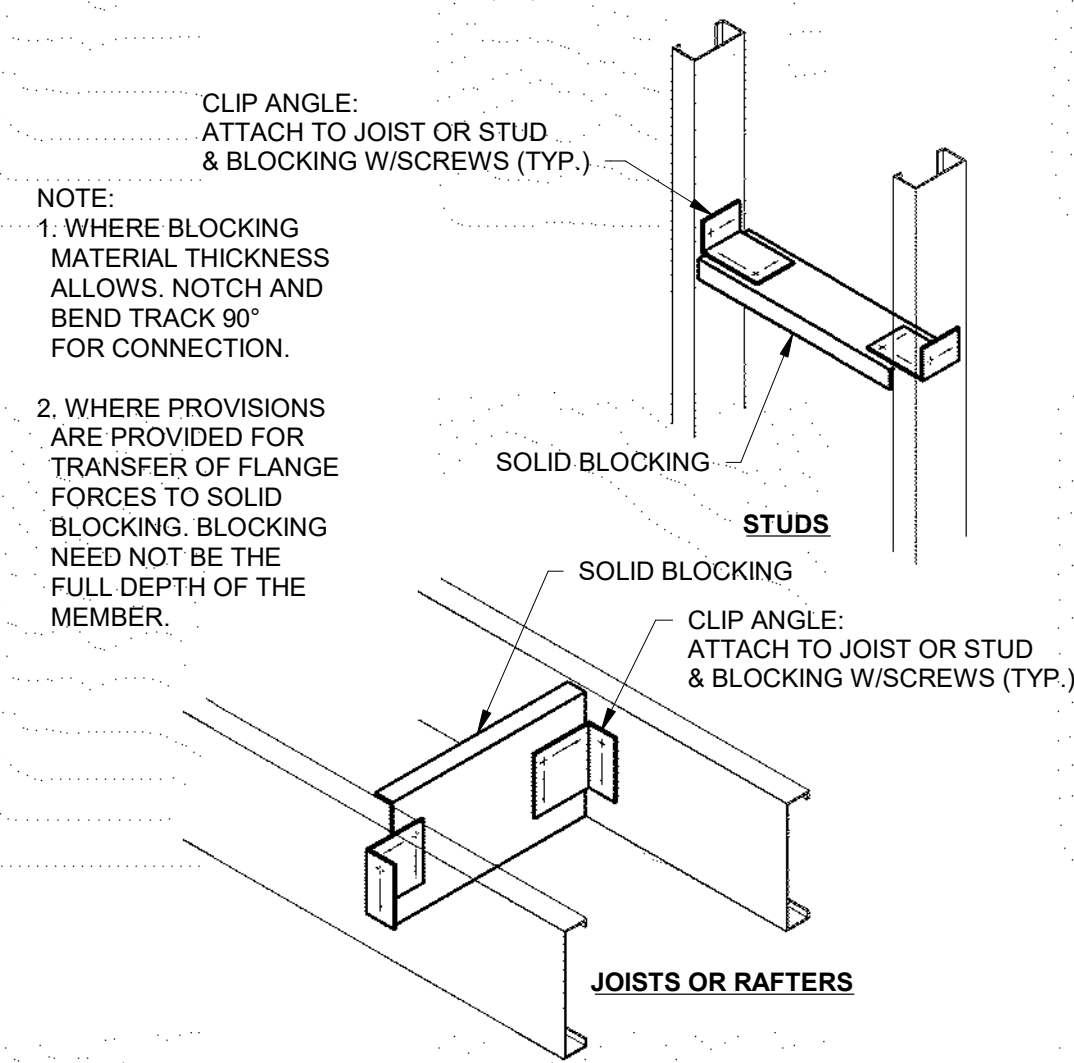
A4
S3.2
1" = 1'-0"

CFS- FRAMING DETAILS @ WALL INTERSECTIONS



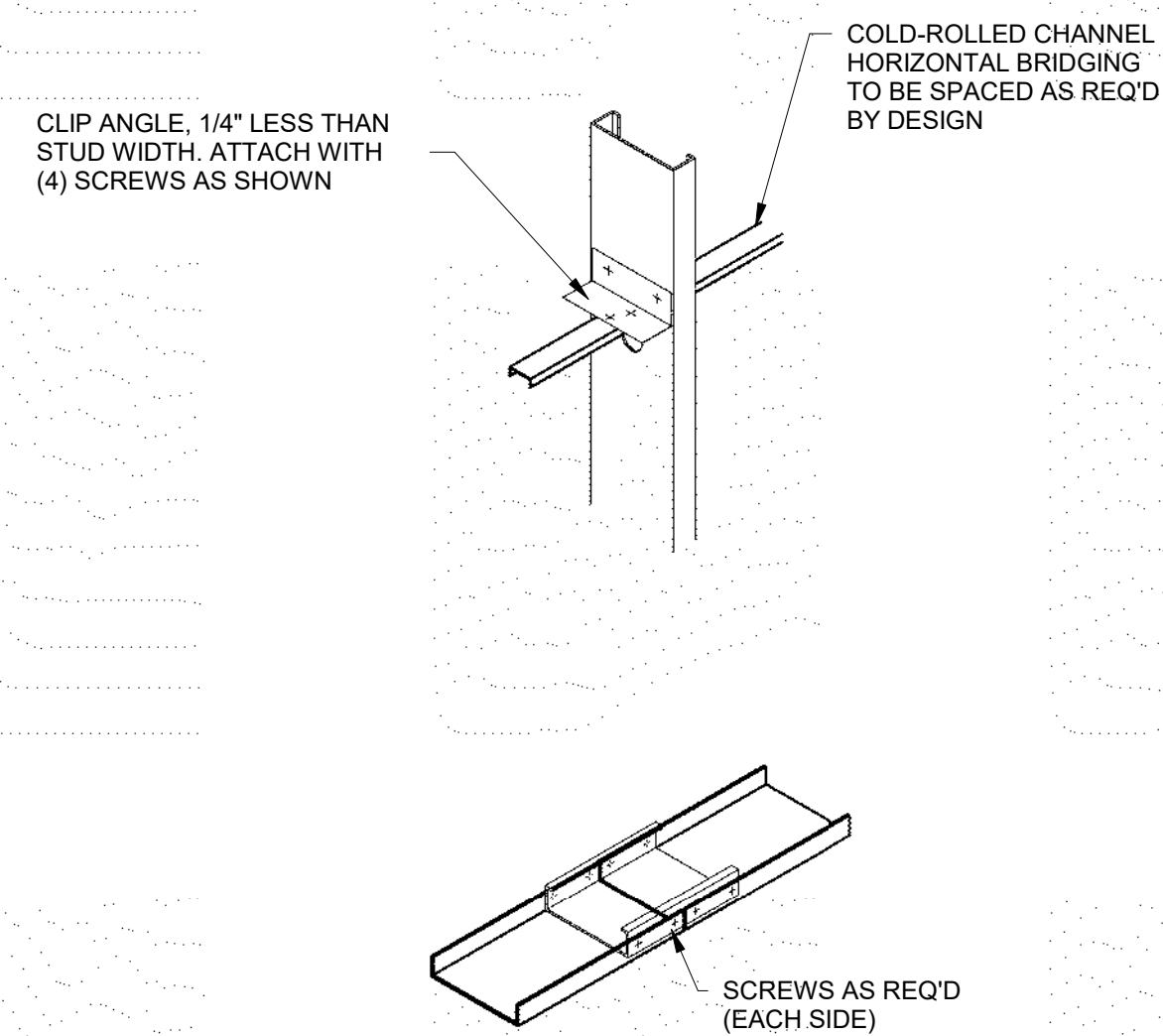
C5
S3.2
1" = 1'-0"

CFS- JOIST, STUD OR RAFTER WEB PENETRATIONS DETAILS



B5
S3.2
1" = 1'-0"

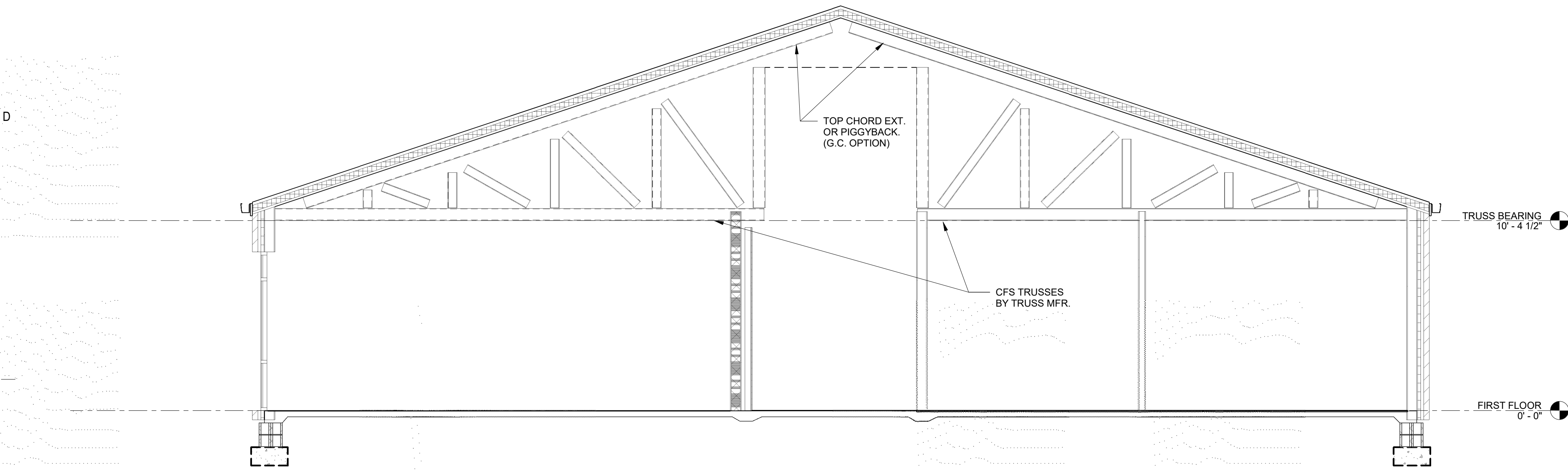
CFS- SOLID BLOCKING DETAILS



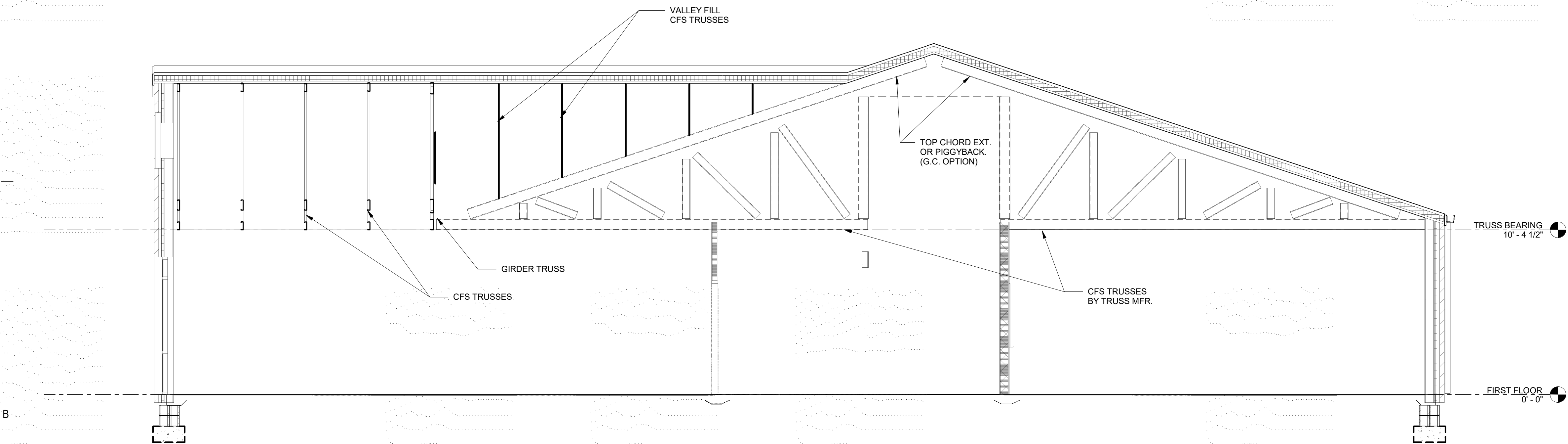
A5
S3.2
1" = 1'-0"

WALL BRIDGING (ALTERNATE) AND TOP & BOTTOM TRACK SPLICE DETAILS

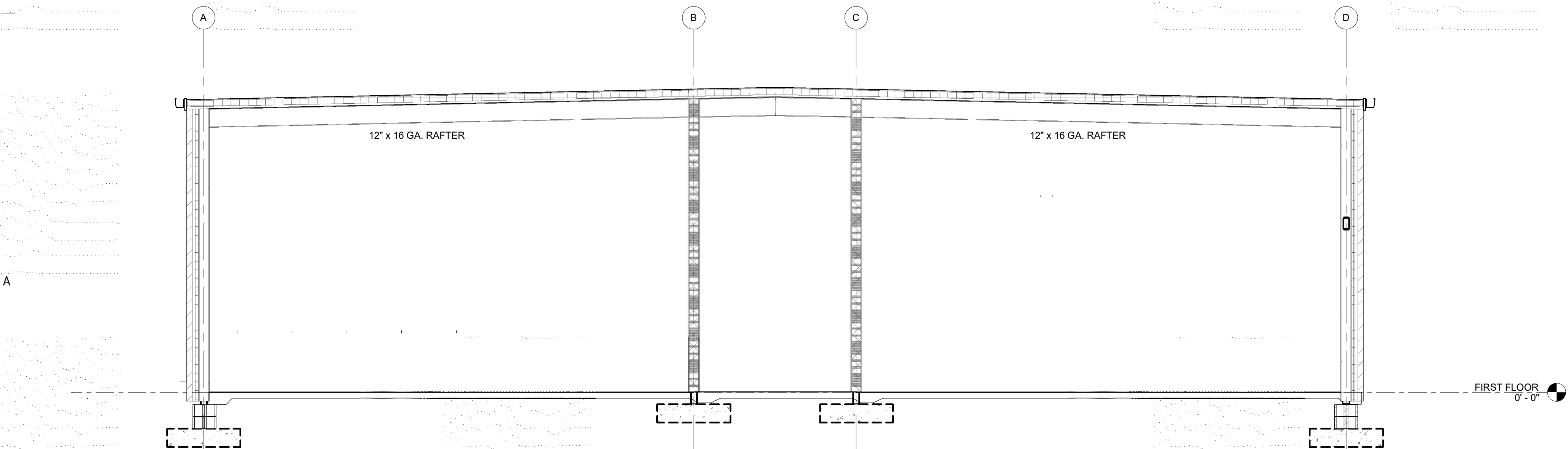
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BUILDING SECTION 3
1/4" = 1'-0"



BUILDING SECTION 2
1/4" = 1'-0"



BUILDING SECTION 1
1/4" = 1'-0"

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
0	12/20/2021	100% CONSTRUCTION DOCUMENTS	PGG

PRINCIPAL IN CHARGE:
PROJECT ENGINEER:
DRAWN BY:

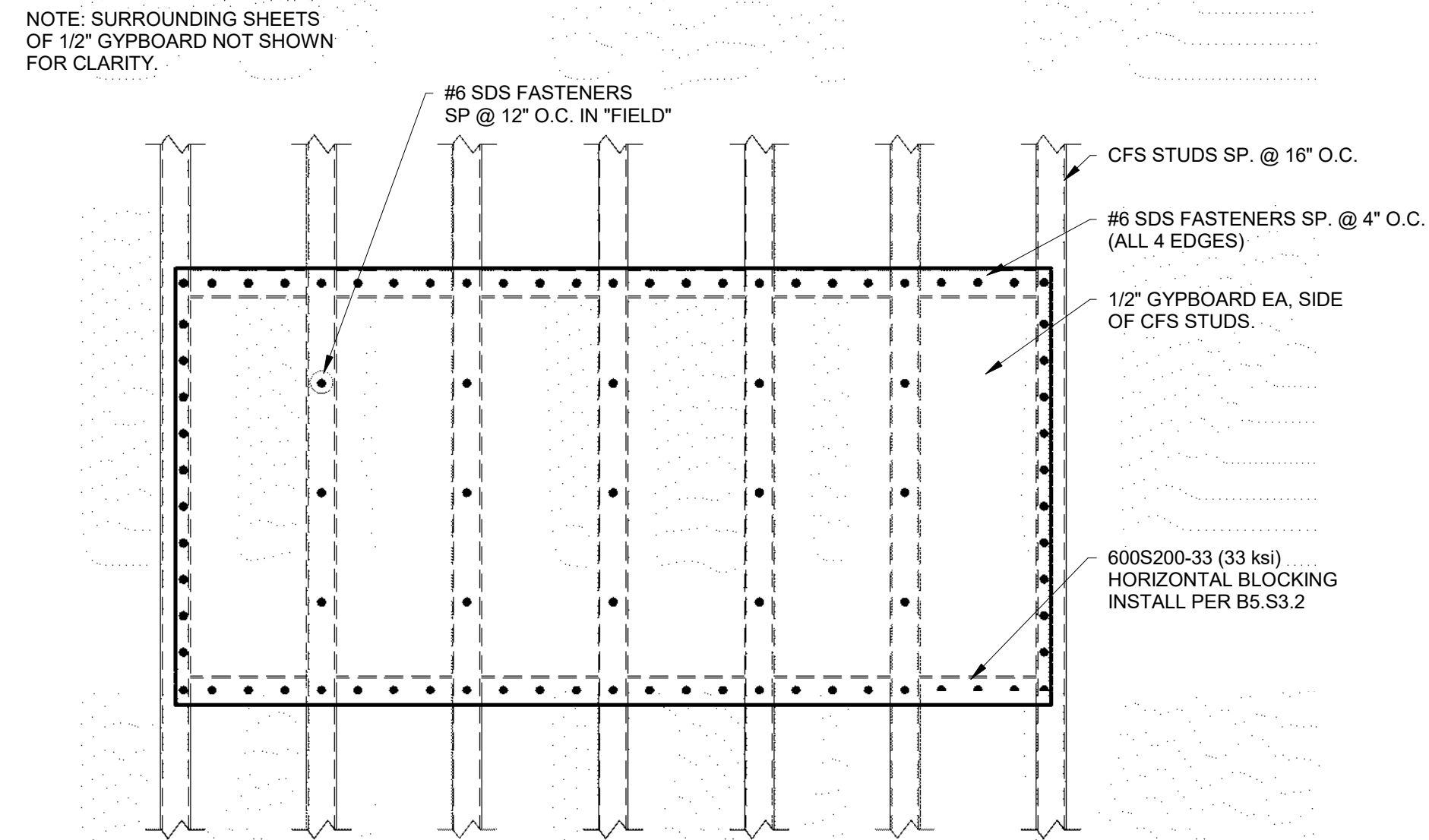
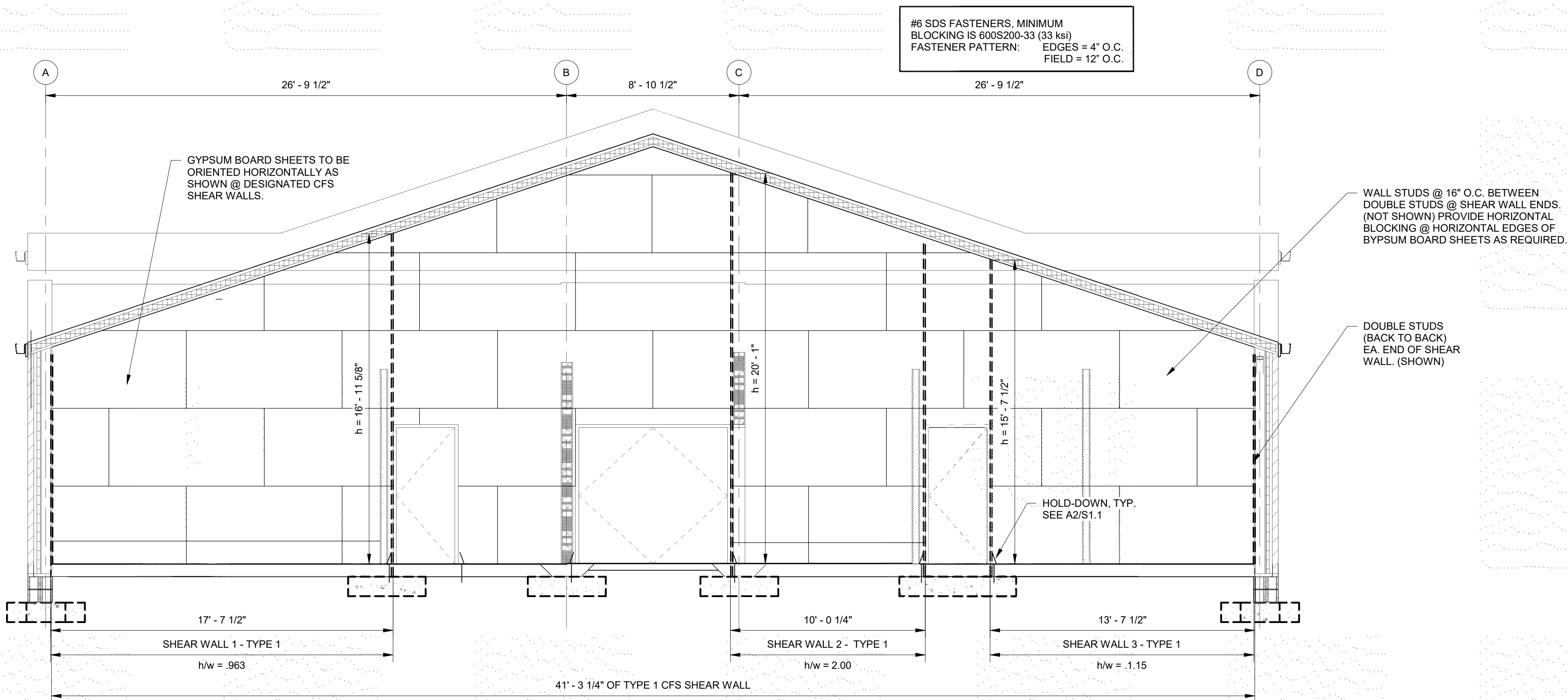
PGG
PGG
JSD

SHEET TITLE:
**BUILDING FRAMING
SECTIONS**

SHEET NO.
PROJ. NO.
21263

S3.3

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A1
S3.4
CFS SHEAR WALL
1/4" = 1'-0"

A4
S3.4
TYP. GYPBOARD SHEET @ SHEARWALL
3/4" = 1'-0"

PLUMBING GENERAL NOTES

3. COORDINATE EXISTING INVERT ELEVATION PRIOR TO INSTALLING NEW SEWER DRAIN.
4. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, FIXTURE LOCATIONS, ETC.
5. EXCEPT WHERE PIPE SPACE IS PROVIDED, ALL SUPPLY, WASTE AND VENT RISERS SHALL BE RUN IN WALLS AND PARTITIONS.
6. HOT AND COLD WATER PIPING RUNS ABOVE ACoustICAL CEILING AND BELOW HARD LID.
7. VENTS SHALL EXTEND THROUGH THE ROOF 12" ABOVE ROOF.
8. PROVIDE A 1/2" CHROME PLATED, LOOSE KEY HOSE BIBB UNDER ONE LAVATORY IN EACH TOILET SPACE EQUIPPED WITH A FLOOR DRAIN.
9. LOCATE HOSE BIBBS 2'-0" ABOVE FINISH FLOOR.
10. LOCATE WALL HYDRANTS 2'-0" ABOVE FINISH GRADE.
11. PROVIDE ACCESS TO ALL EQUIPMENT REQUIRING CLEANING OR ADJUSTMENT. ACCESS IN RATED ASSEMBLIES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE ASSEMBLY.
12. COORDINATE PLUMBING WORK WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCE AND CONFLICT.
13. VENT PIPING SHALL PITCH A MINIMUM OF 1/8" PER FOOT.
14. ALL HOSE BIBBS, VALVES WITH THREADED HOSE CONNECTIONS, AND ALL WALL HYDRANTS SHALL BE EQUIPPED WITH A VANDAL PROOF VACUUM BREAKER.
15. COORDINATE FLOOR DRAINS FOR AIR CONDITIONING EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGHING IN FLOOR DRAINS.
16. PLUMBING CONTRACTOR SHALL ROUGH-IN ALL WASTE AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S APPROVED SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL HAVE SHUT-OFF VALVES.
17. PLUMBING CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
18. WATER CLOSETS IN TOILET ROOMS SHALL BE CENTERED ACCORDING TO APPROVED SHOP DRAWINGS OF TOILET PARTITIONS.
19. COLD AND HOT WATER LINES SHOWN IN THE AREA OF A FIXTURE AND/OR TOILET GROUP SHALL BE RUN FULL SIZE OF HEADER INDICATED IN WALL AND/OR CASE. PROVIDE CONNECTION TO FIXTURES, HOSE BIBB AND TRAP PRIMER AS PLUMBING CONNECTION SCHEDULE AND DETAILS INDICATE.
20. SIZES OF VENT PIPE SHALL BE 2" UNLESS STATED OTHERWISE ON PLANS.
21. LOCATE FLUSH VALVE HANDLE ON WIDE SIDE OF HANDICAPPED WATER CLOSET AND URINAL.
22. PROVIDE TRAP PRIMER FOR DRAINS ON ALL FLOOR DRAINS OF INTERMITTENT USE INCLUDING DRAINS FOR AIR CONDITIONING EQUIPMENT, EQUIPMENT DRAIN AND RELIEF, ETC.

SEISMIC DESIGN CRITERIA

RISK CATEGORY (b): III
SEISMIC DESIGN CATEGORY (a): C

NOTES:
(a) INFORMATION PROVIDED BY STRUCTURAL ENGINEER
(b) INFORMATION PROVIDED BY ARCHITECT

PLUMBING FIXTURE CONNECTION SCHEDULE*

P.NO.	FIXTURE	COLD WATER SIZE	HOT WATER SIZE	WASTE			VENT SIZE	GAS SIZE	REMARKS
				DIRECT SIZE	INDIRECT SIZE	DRAIN			
P-1	WATER CLOSET - FLOOR MOUNTED - FLUSH VALVE - SENSOR TYPE (1.28 GPF)	1"	-	4"	-	-	2"	-	
P-1A	WATER CLOSET - FLOOR MOUNTED - HANDICAPPED - SENSOR TYPE (1.28 GPF)	1"	-	4"	-	-	2"	-	
P-2	URINAL - WALL HUNG - SENSOR TYPE FLUSH VALVE (0.125 GPF)	3/4"	-	2"	-	-	2"	-	
P-2A	URINAL - WALL HUNG - SENSOR TYPE FLUSH VALVE - HANDICAPPED (0.125 GPF)	3/4"	-	2"	-	-	2"	-	
P-3	WASH FOUNTAIN - WALL HUNG - (STUDENT) (2 STATION) - SENSOR TYPE	1/2"	-	1 1/2"	-	-	2"	-	
P-3A	WASH FOUNTAIN - WALL HUNG - HANDICAPPED (STUDENT) (2 STATION) - SENSOR TYPE	1/2"	-	1 1/2"	-	-	2"	-	
P-3B	LAVATORY - WALL HUNG - (ADULT) (2.2 GPM) (MANUAL GOOSE NECK FAUCET)	1/2"	1/2"	1 1/2"	-	-	2"	-	①
P-4	SERVICE SINK - FLOOR MOUNTED - 24"x24"x12"	3/4"	3/4"	3"	-	-	2"	-	①
P-5	WATER COOLER - WALL HUNG - WITH BOTTLE FILLING STATION	1/2"	-	1 1/2"	-	-	2"	-	
P-5A	WATER COOLER - WALL HUNG WITH BOTTLE FILLING STATION - HANDICAPPED	1/2"	-	1 1/2"	-	-	2"	-	
P-6	HOSE BIBB	1/2"	-	-	-	-	-	-	
P-7	WALL HYDRANT	3/4"	-	-	-	-	-	-	

REMARKS:

- ① 110 DEG. HOT WATER






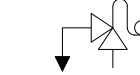
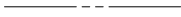

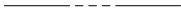



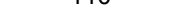













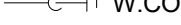



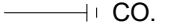











*GENERAL PLUMBING FIXTURE NOTES: (THESE NOTES APPLY TO ALL APPLICABLE PLUMBING FIXTURES).

- a. THE CONTRACT DOCUMENTS ARE INTENDED TO PROVIDE A GUIDE FOR THE PLUMBING CONTRACTOR FOR THE PURPOSES OF BIDDING THIS PROJECT. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL ROUGH-IN LOCATIONS AND FINAL CONNECTIONS WITH APPROVED FIXTURE SHOP DRAWINGS AND CUT SHEETS.
- b. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL MATERIALS NECESSARY TO PROVIDE FINAL CONNECTIONS TO EQUIPMENT INCLUDING OWNER FURNISHED EQUIPMENT IF ANY.
- c. PROVIDE SUPPLY STOPS, P-TRAPS AND REDUCER FITTINGS. PROVIDE ALL OTHER ACCESSORIES AT EACH PIECE OF EQUIPMENT TO ALLOW THE EQUIPMENT TO OPERATE PROPERLY IN ACCORDANCE WITH ALL PERTINENT CODES AND EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

PLUMBING ABBREVIATIONS

AF	ABOVE FINISHED FLOOR	HWD	HOT WATER DOWN	POI	PLUMBING DRAINAGE INSTITUTION
AP	ACCESS PANEL	HWFA	HOT WATER FROM ABOVE	PPD	PIPE TO FLOOR DRAIN
CI	CAST IRON	HWBF	HOT WATER FROM BELOW	PRV	PRESSURE REDUCING VALVE
CW	COLD WATER	HWR	HOT WATER RECIRCULATING LINE	RCP	REINFORCED CONCRETE PIPE
CWD	COLD WATER DOWN	HWU	HOT WATER UP	RD	ROOF DRAIN
CWFA	COLD WATER FROM ABOVE	IW	INDIRECT WASTE	SD	STORM DRAIN
CWFB	COLD WATER FROM BELOW	IE	INVERT ELEVATION	SDD	STORM DRAIN DOWN
CWU	COLD WATER UP	MAX	MAXIMUM	SDEA	STORM DRAIN FROM ABOVE
D	DIRECT WASTE	MIN	MINIMUM	ST	STORAGE TANK
DIA	DIAMETER	MM	MILLIMETER	TYP	TYPICAL
ET	EXPANSION TANK	MV	MIXING VALVE	V	VENT
FD	FLOOR DRAIN	NC	NORMALLY CLOSED	UDS	UTILITY DISTRIBUTION SYSTEM
FS	FLOOR SINK	NG	NATURAL GAS	VFB	VENT FROM BELOW
FT	FEET	NO	NORMALLY OPEN	VTR	VENT THRU ROOF
G	GAS	OC	ON CENTER	W	WASTE
GPM	GALLONS PER MINUTE	OD	OVERFLOW DRAIN	WD	WASTE DOWN
HW	HOT WATER	P-1	PLUMBING FIXTURE NUMBER 1	WFA	WASTE FROM ABOVE

PLUMBING LEGEND

	SANITARY WASTE LINE		GATE VALVE IN RISER
	SANITARY VENT LINE		GATE VALVE IN CAST IRON VALVE BOX
	DOMESTIC COLD WATER LINE		RELIEF VALVE
	DOMESTIC HOT WATER LINE		UNION IN LINE
	HOT WATER RECIRCULATING LINE		BALANCING FITTING, PLUG COCK
	GAS LINE		CONCENTRIC REDUCER
	TEMPERED WATER (110°)		ECCENTRIC REDUCER (TURNED DOWN)
	HIGH TEMPERATURE WATER (140°)		VIBRATION HOSE
	INDIRECT WASTE		PIPE TURNS TO
	WH† WALL HYDRANT		PIPE TURNS AWAY
	F.CO. FLOOR CLEANOUT		HOSE BIBB WITH VACUUM BREAKER
	G.CO. GRADE CLEANOUT		GAS PRESSURE REGULATOR
	W.CO. WALL CLEANOUT		PRESSURE REDUCING VALVE
	W.CO. WALL CLEANOUT		THERMOMETER
	CO. CLEANOUT AT END OF LINE		PRESSURE GAUGE
	FLOOR DRAIN		VACUUM RELIEF VALVE
	BALL VALVE		PIPE SUPPORT
	GATE VALVE		ACCESS PANEL
	BUTTERFLY VALVE		DETAIL NUMBER
	GLOBE VALVE		SHEET NUMBER
	CHECK VALVE		
	PRV - PRESSURE REDUCING VALVE		



CONSULTANT LOGS



SEALS



SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL CLASSROOM ADDITION AND INTERIOR RENOVATION

SPARTANBURG, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
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100% CONSTRUCTION 12/20/2022
DOCUMENTS
PRINCIPAL IN CHARGE: DL
PROJECT ARCHITECT: DL
DRAWN BY: JO, D

SHEET TITLE:
PLUMBING NOTES,
LEGENDS &
SCHEDULES

SHEET NO. PROJ. NO.
02135

P001

SPARTANBURG, SC

P002





CANNONS ELEMENTARY SCHOOL CLASSROOM
ADDITION AND INTERIOR RENOVATION

SPARTANBURG, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

100% CONSTRUCTION 12/20/2021
DOCUMENTS
PRINCIPAL IN CHARGE: DLL
PROJECT ARCHITECT: DLL
DRAWN BY: JO, DC

SHEET TITLE:
PLUMBING DETAILS

SHEET NO. PROJ. NO.
021352

P003

ELECTRIC WATER HEATER SCHEDULE

ELECTRIC WATER HEATER SCHEDULE																					
WATER HEATER #	LOCATION	SHEET	NOMINAL CAPACITY*	SIZE		INPUT		ELEMENTS		OUTLET TEMP	RECOVERY		PIPE SIZES (IN.)			EXP. TANK (Y/N)	MIXING VALVE (Y/N)	RECIRC. PUMP (Y/N)	ELECT. VOLT/PH	MANUFACTURER AND MODEL	REMARKS
				HT.(IN)	DIA.(IN)	KW	MBH	NO.	STEPS		T RISE	GPH	CW	HW	HWR						
WH-1	CUSTODIAL 1111	P110	30	35 3/4"	20 1/2"	6	-	2	-	140 DEG	100	36	3/4"	3/4"	-	Y	N	N	480/3	A.O. SMITH DSE 30	①②
* ACTUAL CAPACITY SHALL BE WITHIN 5% OF NOMINAL CAPACITY FOR CAPACITIES LARGER THAN 80 GALLONS.																					
SEE DETAIL BELOW																					

EXPANSION TANK SCHEDULE

EXPANSION TANK SCHEDULE							
EXPANSION TANK #	WATER HEATER #	SYSTEM PRESSURE (P.S.I.)	TANK SIZE			MANUFACTURER AND MODEL	REMARKS
			GAL.	DIA. (IN)	L. (IN)		
ET-1	WH-1	65	6.4	12	13-1/4	THERM-X-TROLL-ST-12C	①②③

* ONE TANK REQUIRED WHERE MULTIPLE HEATERS ARE PIPED TOGETHER UNLESS INDICATED OTHERWISE.

① VERTICAL

② ASME

③ ALL MATERIAL SHALL BE LEAD FREE

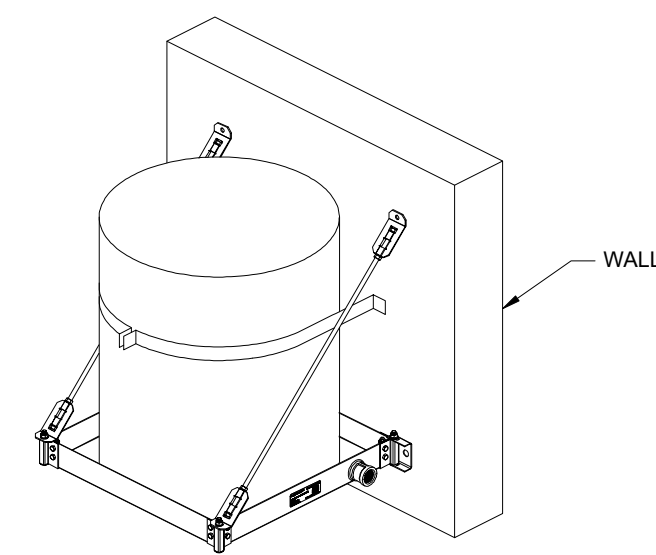
MIXING VALVE SCHEDULE

MIXING VALVE SCHEDULE								
MIXING VALVE #	WATER HEATER #	FLOW (GPM)		MAX. PD (P.S.I.)	SIZE		MANUFACTURER AND MODEL	REMARKS
		MIN.	MAX.		INLET	OUTLET		
MV-1	WH-1	1	20	10	3/4"	1"	BAWLER 801	①②

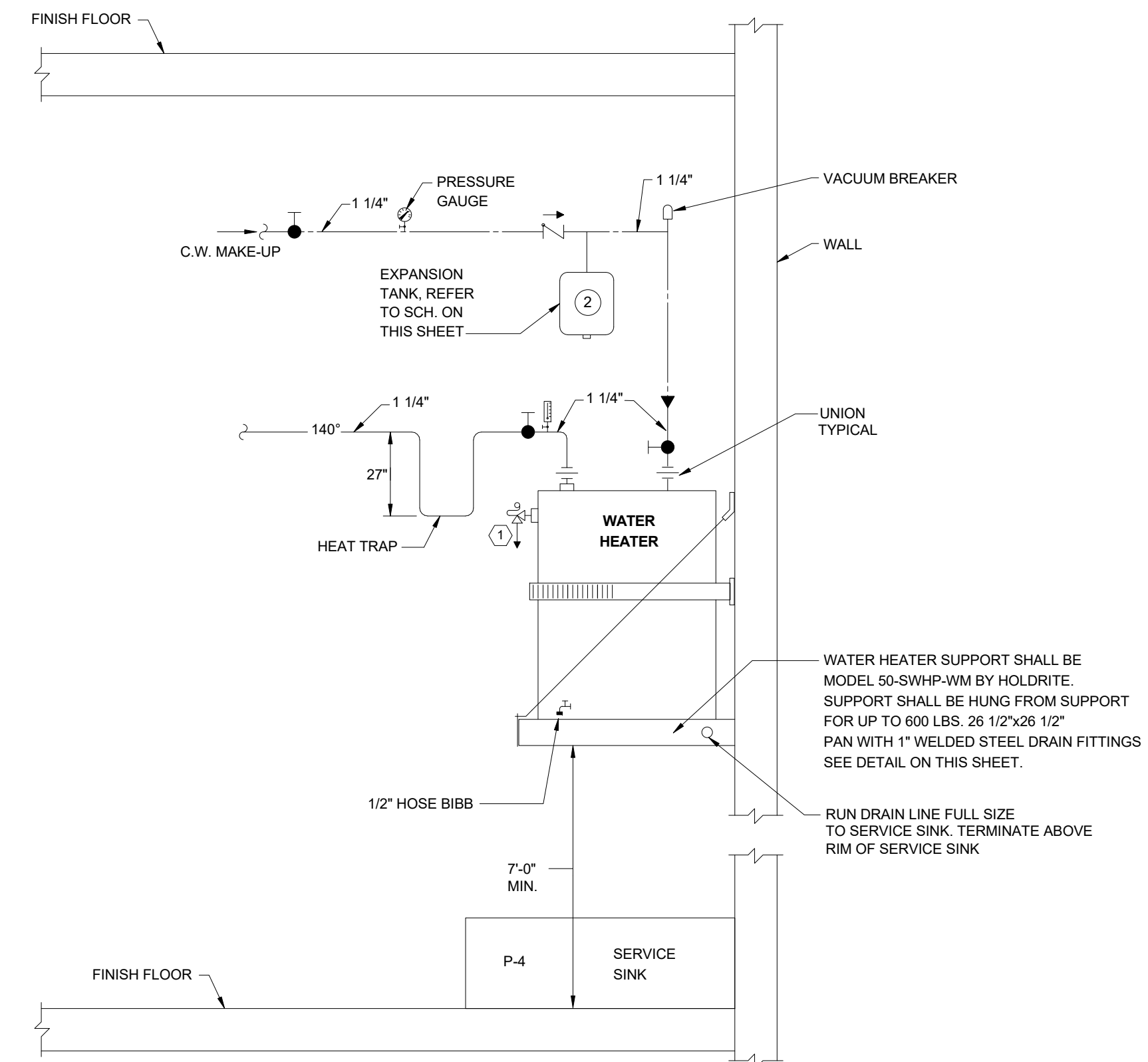
① WALL MOUNT

② ALL VALVES SHALL BE LEAD FREE

WATER HEATER SUPPORT DETAIL



NOT TO SCALE

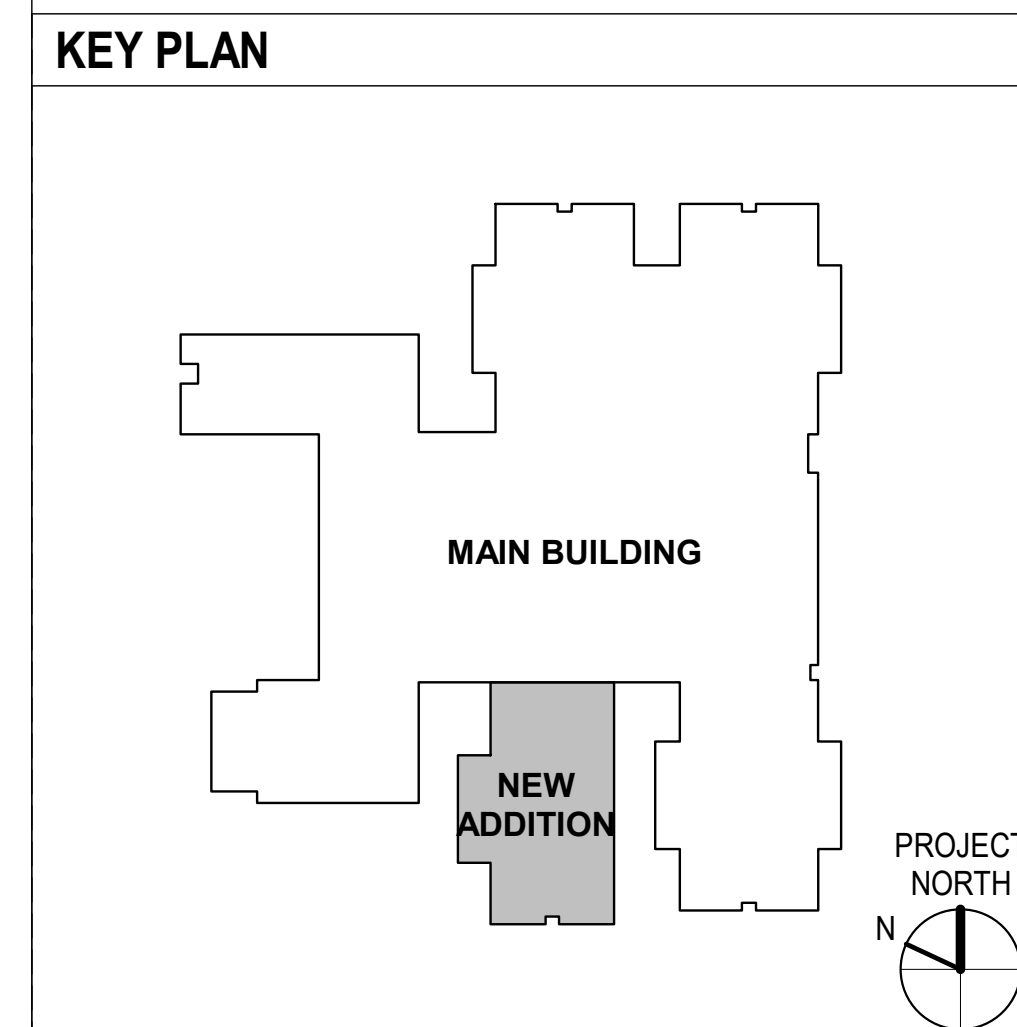
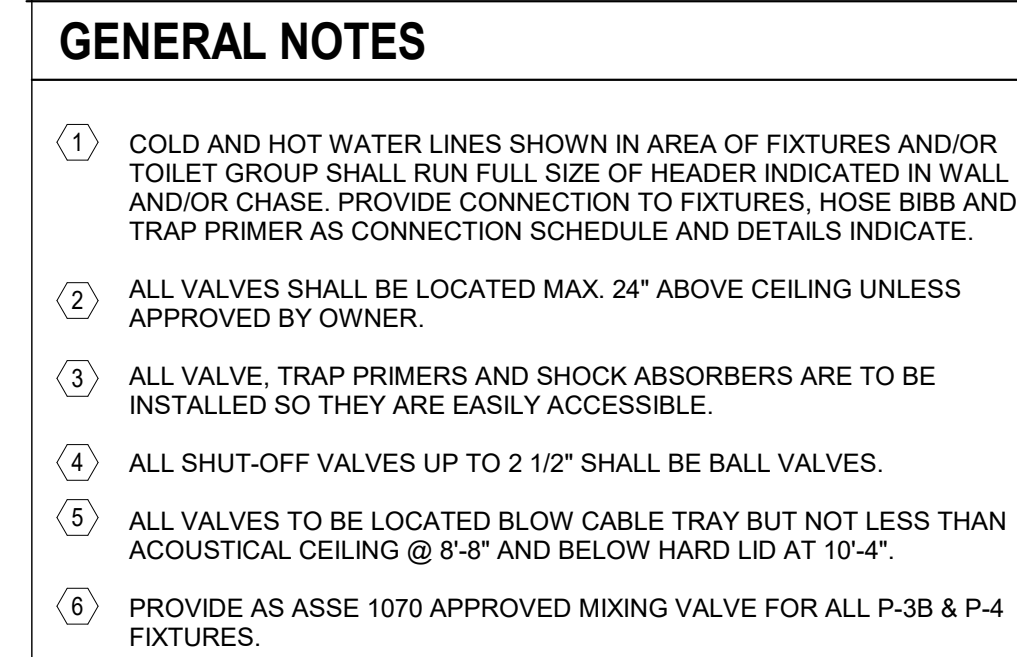


NOTES:

- ① T & P RELIEF VALVE, PIPE FULL SIZE TO SERVICE SINK. TERMINATE ABOVE RIM OF SERVICE SINK.
- ② EXPANSION TANK, SUPPORT EXPANSION TANK FROM STRUCTURE ABOVE. SEE SCHEDULE ON THIS SHEET.

ELECTRIC WATER HEATER PIPING DETAIL

NOT TO SCALE
(WH-3)



SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL CLASSROOM
ADDITION AND INTERIOR RENOVATION

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

100% CONSTRUCTION 12/20/2021
DOCUMENTS
PRINCIPAL IN CHARGE: DLU
PROJECT ARCHITECT: DLU
DRAWN BY: JO, DC

SHEET TITLE:
FLOOR PLAN -
PLUMBING -
SUPPLY

SHEET NO. PROJ. NO.
021352

P110



CONSULTANT LOGO

**Buford
Goff**
& Associates, Inc.
Engineers & Planners
1331 Elmwood Avenue, Suite 200
Columbia, SC 29201 803-254-6302

SEALS

[illegible]

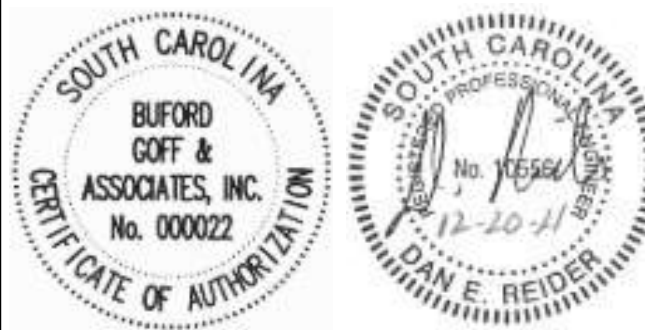


- ① 2"WASTE LINE DN. & 2"VENT LINE UP.
- ② 2"VENT LINE UP.
- ③ 3"VENT LINE UP TO VTR.
- ④ 4"VENT LINE UP TO VTR.
- ⑤ TIE-IN NEW 4"WASTE LINE TO EXISTING WASTE MAIN CAPPED BELOW SLAB OF EXISTING BUILDING.
- ⑥ PROVIDE (6"x7") PIEDMONT MODEL #56-26-5 DOWNSPOUT BOOT WITH HOT DIPPEED GALVANIZED FINISH, CONNECT TO BUILDING GUTTER DOWNSPOUTS AS REQUIRED. COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR.
- ⑦ RUN 6" SCHEDULE 40 PVC STORM DRAIN LINE TO OUTSIDE OF BUILDING AND CONNECT TO STORM DRAIN LINE PROVIDED BY CIVIL CONTRACTOR. MINIMUM PIPE COVER SHALL BE 24" BELOW FINISH GRADE.
- ⑧ COORDINATE ALL PIPING CONNECTION POINTS, ETC. WITH GENERAL CONTRACTOR.
- ⑨ PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION AT APPROX. 5'-0" MARK OF BUILDING.

- 1 PROVIDE TRAP SEAL PROTECTION DEVICE IN ALL FLOOR DRAINS & FLOOR SINKS.
- 2 FOR P# REFER TO SHEET P110.
- 3 FOR VENT PIPING REFER TO SHEET P 201.



SEALS



SPARTANBURG, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

MAIN BUILDING

NEW ADDITION

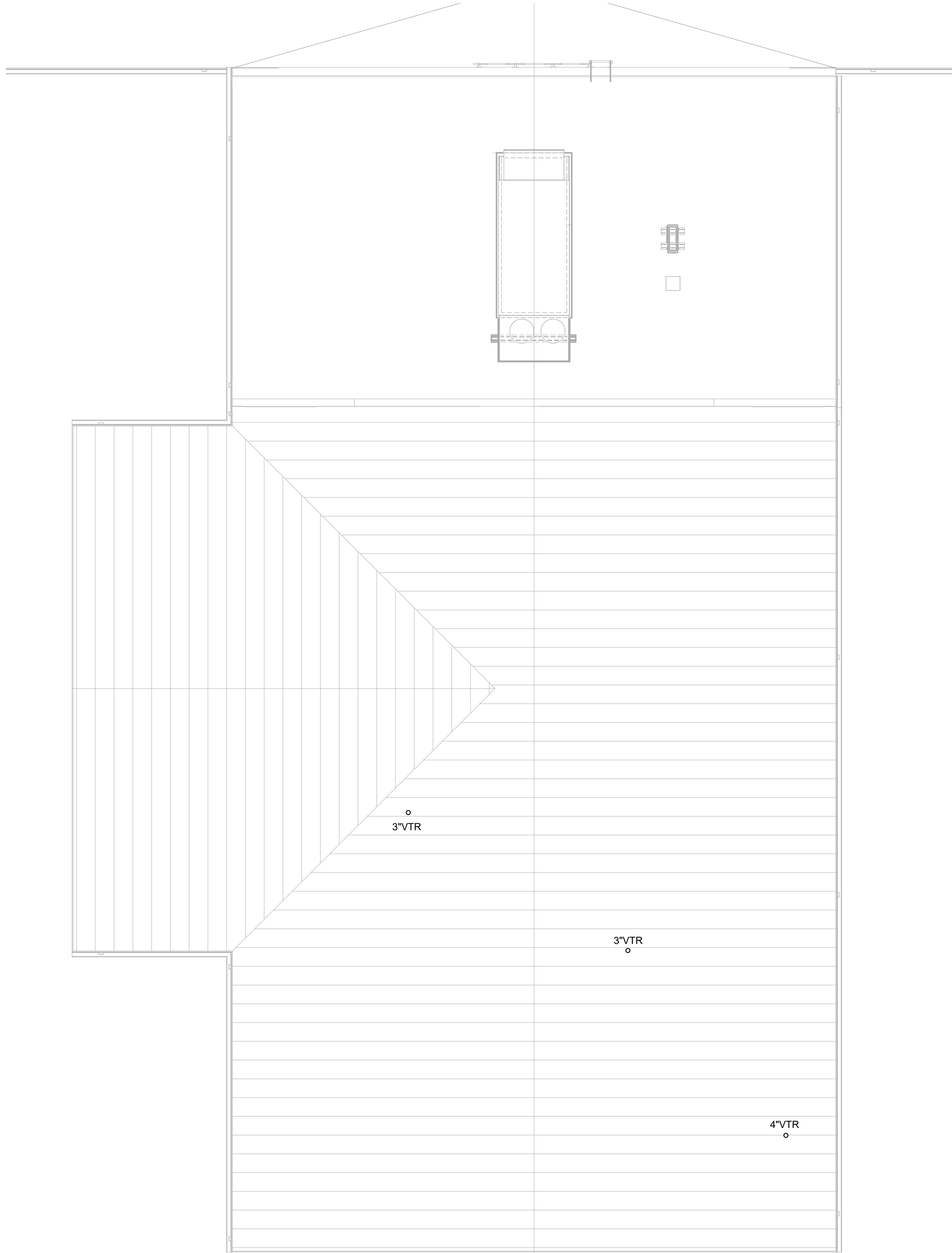
100% CONSTRUCTION 12/20/2021
DOCUMENTS
PRINCIPAL IN CHARGE: DLI
PROJECT ARCHITECT: DLI
DRAWN BY: JO, DC

SHEET TITLE:
FLOOR PLAN -
PLUMBING -
WASTE/VENT

SHEET NO. PROJ. NO.
021352

P110A

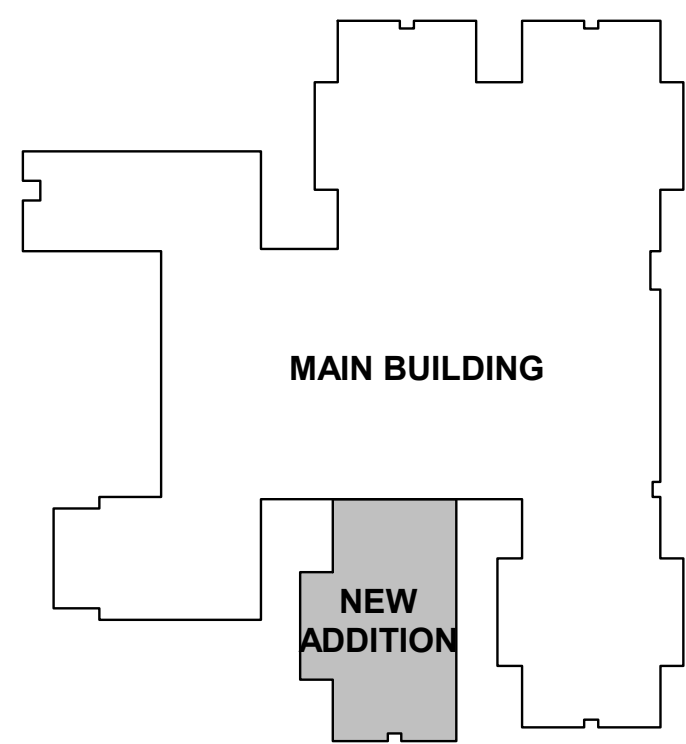
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1
P111
1/8" = 1'-0"

ROOF PLAN - PLUMBING

KEY PLAN



SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL CLASSROOM
ADDITION AND INTERIOR RENOVATION
SPARTANBURG, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

100% CONSTRUCTION DOCUMENTS
PRINCIPAL IN CHARGE: DUL
PROJECT ARCHITECT: DUL
DRAWN BY: JO, DC

SHEET TITLE:
ROOF PLAN - PLUMBING

SHEET NO. PROJ. NO.
021352

P111



CONSULTANT LOGO



SEALS





SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL CLASSROOM
ADDITION AND INTERIOR RENOVATION

SPARTANBURG, SC

SHEET ISSUE:

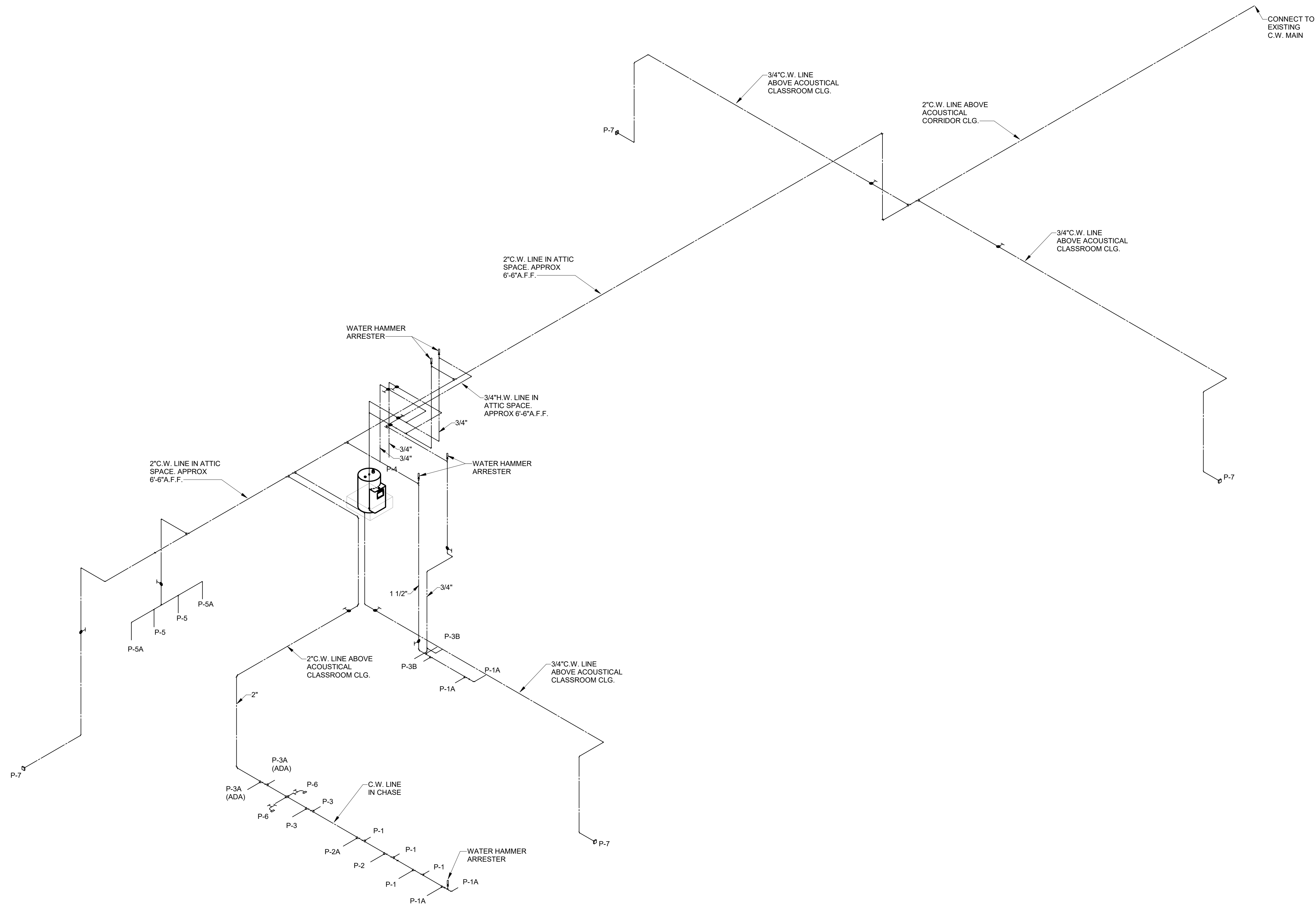
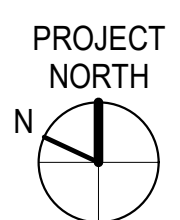
NO.	DATE	DESCRIPTION	BY
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100% CONSTRUCTION 12/20/2021
DOCUMENTS
PRINCIPAL IN CHARGE: DLL
PROJECT ARCHITECT: DLL
DRAWN BY: JO, DC

SHEET TITLE:
**PLUMBING -
SUPPLY RISER**

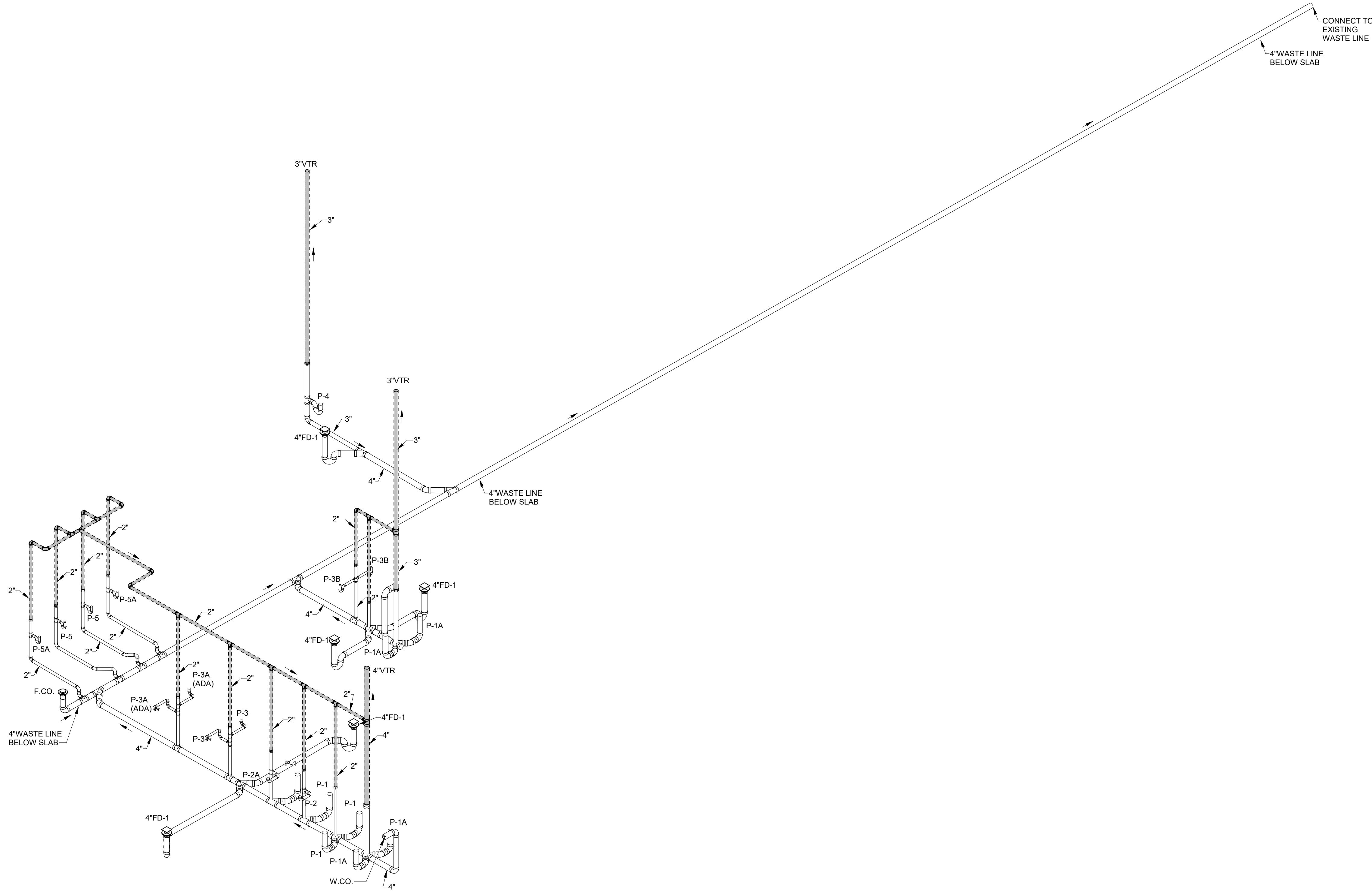
SHEET NO. PROJ. NO.
021352

P200

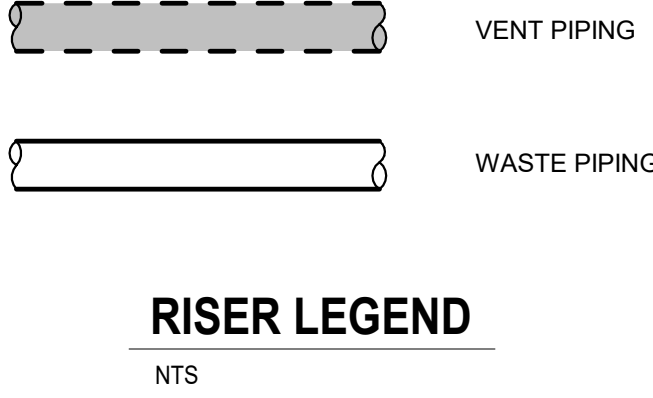


1 PLUMBING SUPPLY RISER
P200 NTS

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1 PLUMBING WASTE/VENT RISER
P201 NTS



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SEALS



SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL CLASSROOM
ADDITION AND INTERIOR RENOVATION

SPARTANBURG, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

100% CONSTRUCTION 12/20/2021
DOCUMENTS
PRINCIPAL IN CHARGE: D.L.
PROJECT ARCHITECT: D.L.
DRAWN BY: J.O., D.C.

SHEET TITLE:
PLUMBING -
WASTE/VENT RISER

SHEET NO. PROJ. NO.
021352



P201

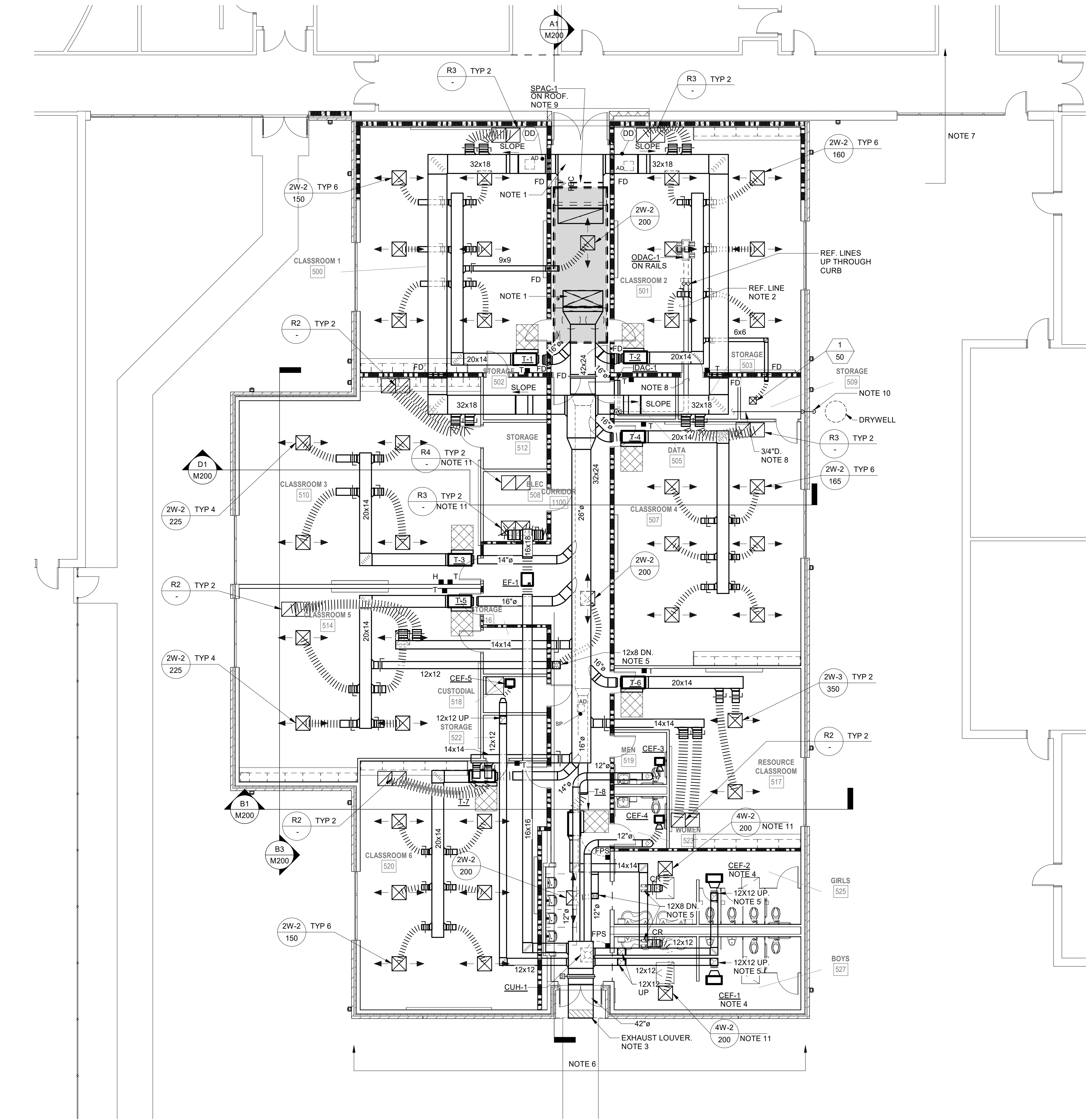
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1

B

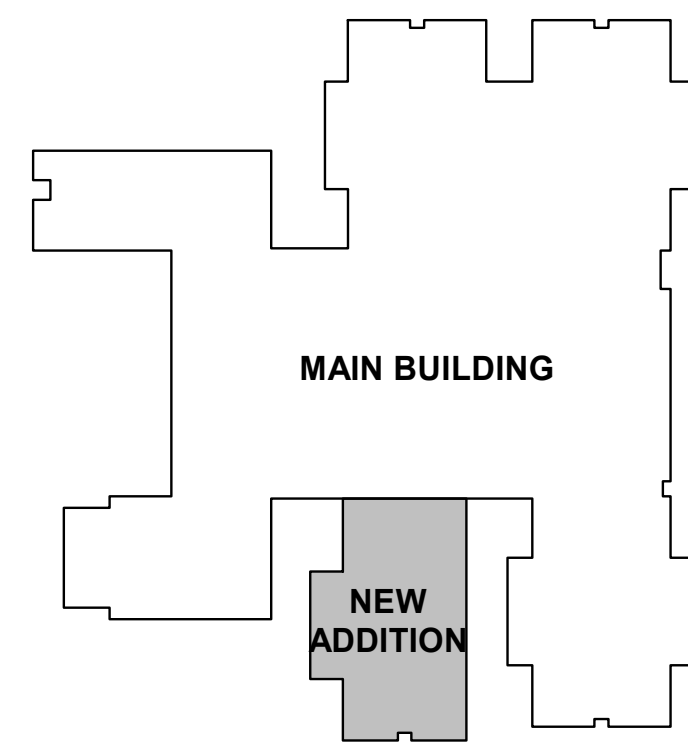
C

D



1 FIRST FLOOR - HVAC
1/8" = 1'-0"

KEY PLAN



100% CONSTRUCTION DOCUMENTS
PRINCIPAL IN CHARGE: DUL
PROJECT ARCHITECT: DUL
DRAWN BY: AL, DC

SHEET TITLE:
FLOOR PLAN - HVAC

SHEET NO. PROJ. NO. 021352

M110

NOTES

1. DUCT FULL WIDTH OF UNIT CONNECT x24" DEEP.
2. SUPPORT REFRIGERANT LINES FROM STRUCTURE.
3. CONNECT 42" DIA. PLENUM TO EXHAUST LOUVER.
4. TRANSITION EXHAUST DUCT TO CEF-X. FLEX TO FAN CONNECTION.
5. PROVIDE FIRE DAMPER AT RATED ASSEMBLY. SEE SECTIONS AND ARCHITECTURAL PLANS.
6. FINAL LOCATION OF TERMINAL UNITS (T-X) SHALL BE COORDINATED WITH FINAL APPROVED BUILDING TRUSS DRAWINGS. TERMINAL UNITS ARE TO BE LOCATED AT OPEN AREA OF ROOF TRUSSES. PROVIDE A MINIMUM OF 48" CLEARANCE IN FRONT OF THE TERMINAL UNITS CONTROL/POWER COMPONENTS.
7. WHERE CONTROL CONDUIT IS RUN IN THE EXISTING BUILDING, ALL WALL PENETRATIONS SHALL BE FIRESTOP PER THE EXISTING RATINGS OR, IF NO RATING, FIRESTOP PER CONDUIT THROUGH A ONE HOUR WALL DETAIL.
8. RUN REFRIGERANT AND DRAIN LINES FROM IDAC-1 ABOVE CEILING.
9. CENTER UNIT ON CORRIDOR.
10. 3/4" DRAIN LINE IN WALL TO DRYWELL. SEE DETAIL.
11. PROVIDE GRILLE TRIM FOR A GYPSUM BOARD CEILING.

SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL
CLASSROOM ADDITION AND
INTERIOR RENOVATION
SPARTANBURG, SC

SHEET ISSUE:
NO. DATE DESCRIPTION BY

PROJECT NORTH

SCALE 1/8" = 1'-0"

CONSULTANT LOGO

SEALS

REVISIONS

DATE

BY

PROJECT NO.

PROJ. NO.

021352

12/20/2021

DUL

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FLOOR PLAN - HVAC

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SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SPARTANBURG, SC

100% CONSTRUCTION

DOCUMENTS

PRINCIPAL IN CHARGE:

PROJECT ARCHITECT:

DRAWN BY:

SHEET TITLE:

FLOOR PLAN - HVAC

SHEET NO.

PROJ. NO.

021352

12/20/2021

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SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SPARTANBURG, SC

100% CONSTRUCTION

DOCUMENTS

PRINCIPAL IN CHARGE:

PROJECT ARCHITECT:

DRAWN BY:

SHEET TITLE:

FLOOR PLAN - HVAC

SHEET NO.

PROJ. NO.

021352

12/20/2021

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SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SPARTANBURG, SC

100% CONSTRUCTION

DOCUMENTS

PRINCIPAL IN CHARGE:

PROJECT ARCHITECT:

DRAWN BY:

SHEET TITLE:

FLOOR PLAN - HVAC

SHEET NO.

PROJ. NO.

021352

12/20/2021

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SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SPARTANBURG, SC

100% CONSTRUCTION

DOCUMENTS

PRINCIPAL IN CHARGE:

PROJECT ARCHITECT:

DRAWN BY:

SHEET TITLE:

FLOOR PLAN - HVAC

SHEET NO.

PROJ. NO.

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12/20/2021

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SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SPARTANBURG, SC

100% CONSTRUCTION

DOCUMENTS

PRINCIPAL IN CHARGE:

PROJECT ARCHITECT:

DRAWN BY:

SHEET TITLE:

FLOOR PLAN - HVAC

SHEET NO.

PROJ. NO.

021352

12/20/2021

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SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SPARTANBURG, SC

100% CONSTRUCTION

DOCUMENTS

PRINCIPAL IN CHARGE:

PROJECT ARCHITECT:

DRAWN BY:

SHEET TITLE:

FLOOR PLAN - HVAC

SHEET NO.

PROJ. NO.

021352

12/20/2021

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SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SPARTANBURG, SC

100% CONSTRUCTION

DOCUMENTS

PRINCIPAL IN CHARGE:

PROJECT ARCHITECT:

DRAWN BY:

SHEET TITLE:

FLOOR PLAN - HVAC

SHEET NO.

PROJ. NO.

021352

12/20/2021

DUL

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SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SPARTANBURG, SC

100% CONSTRUCTION

DOCUMENTS

PRINCIPAL IN CHARGE:

PROJECT ARCHITECT:

DRAWN BY:

SHEET TITLE:

FLOOR PLAN - HVAC

SHEET NO.

PROJ. NO.

021352

12/20/2021

DUL

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SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SPARTANBURG, SC

100% CONSTRUCTION

DOCUMENTS

PRINCIPAL IN CHARGE:

PROJECT ARCHITECT:

DRAWN BY:

SHEET TITLE:

FLOOR PLAN - HVAC

SHEET NO.

PROJ. NO.

021352

12/20/2021

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SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SPARTANBURG, SC

100% CONSTRUCTION

DOCUMENTS

PRINCIPAL IN CHARGE:

PROJECT ARCHITECT:

DRAWN BY:

SHEET TITLE:

FLOOR PLAN - HVAC

SHEET NO.

PROJ. NO.

021352

12/20/2021

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SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SPARTANBURG, SC

100% CONSTRUCTION

DOCUMENTS

PRINCIPAL IN CHARGE:

PROJECT ARCHITECT:

DRAWN BY:

SHEET TITLE:

FLOOR PLAN - HVAC

SHEET NO.

PROJ. NO.

021352

12/20/2021

DUL

DUL

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SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SPARTANBURG, SC

100% CONSTRUCTION

DOCUMENTS

PRINCIPAL IN CHARGE:

PROJECT ARCHITECT:

DRAWN BY:

SHEET TITLE:

FLOOR PLAN - HVAC

SHEET NO.

PROJ. NO.

021352

12/20/2021

DUL

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SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SPARTANBURG, SC

100% CONSTRUCTION

DOCUMENTS

PRINCIPAL IN CHARGE:

PROJECT ARCHITECT:

DRAWN BY:

SHEET TITLE:

FLOOR PLAN - HVAC

SHEET NO.

PROJ. NO.

021352

12/20/2021

DUL

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SPARTANBURG COUNTY SCHOOL DISTRICT THREE

CANNONS ELEMENTARY SCHOOL

CLASSROOM ADDITION AND

INTERIOR RENOVATION

SPARTANBURG, SC

100% CONSTRUCTION

DOCUMENTS

PRINCIPAL IN CHARGE:

PROJECT ARCHITECT:

DRAWN BY:

SHEET TITLE:

FLOOR PLAN - HVAC

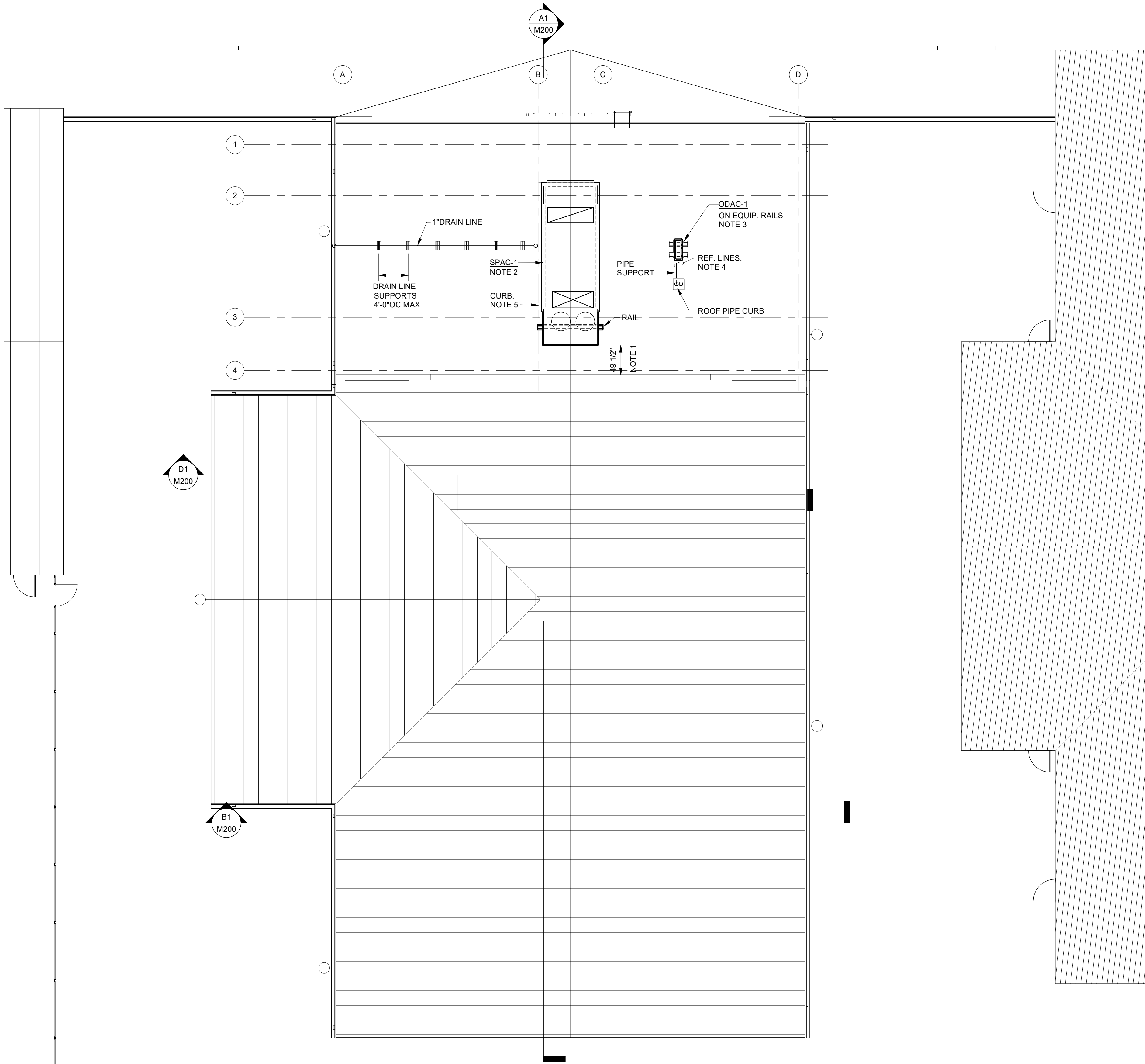
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PROJ. NO.

021352

12/20/2021

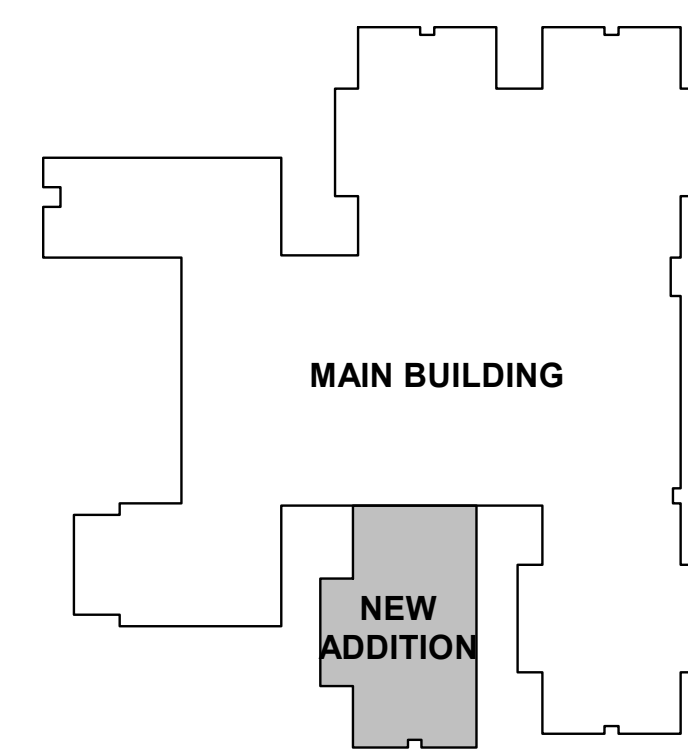
DUL



1 ROOF PLAN - HVAC
M111 1/8" = 1'-0"

0' 4' 8' 16' 32'
SCALE 1/8" = 1'-0"

KEY PLAN



NOTES

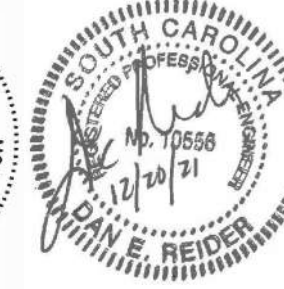
1. UNIT SHALL BE LOCATED 4'-0" MINIMUM FROM HIGH ROOF.
2. RUN UNIT DRAIN TO ROOF GUTTER. PROVIDE SUPPORT PER DETAIL.
3. INSTALL ODAC-1 ON ROOF RAILS. SEE DETAIL.
4. REFRIGERANT LINES. ROUTE DOWN THROUGH ROOF CURB. SEE DETAIL.
5. CURB SHALL BE DESIGNED TO BE CENTERED BETWEEN COLUMN LINES "B" AND "C". STRUCTURE SLOPES APPROXIMATELY 1/2" FROM BUILDING CENTERLINE TO CURB EDGE. SHIM CURB ALONG ROOF STEEL TO PROVIDE A LEVEL CURB. SHIM AT INTERVALS REQUIRED BY CURB MANUFACTURER.



CONSULTANT LOGO



SEALS



SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL
CLASSROOM ADDITION AND
INTERIOR RENOVATION
SPARTANBURG, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

100% CONSTRUCTION DOCUMENTS
PRINCIPAL IN CHARGE: DDL
PROJECT ARCHITECT: DDL
DRAWN BY: AL, DC

SHEET TITLE:
ROOF PLAN - HVAC

SHEET NO. PROJ. NO. 021352

M111

NOTES

1. FINAL LOCATION OF TERMINAL UNITS (T-X) SHALL BE COORDINATED WITH FINAL APPROVED BUILDING TRUSS DRAWINGS. TERMINAL UNITS ARE TO BE LOCATED AT OPEN AREA OF ROOF TRUSSES. PROVIDE A MINIMUM OF 48" CLEARANCE IN FRONT OF THE TERMINAL UNITS CONTROL/POWER COMPONENTS.



CONSULTANT LOGO



SEALS



SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL
CLASSROOM ADDITION AND
INTERIOR RENOVATION

SPARTANBURG, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

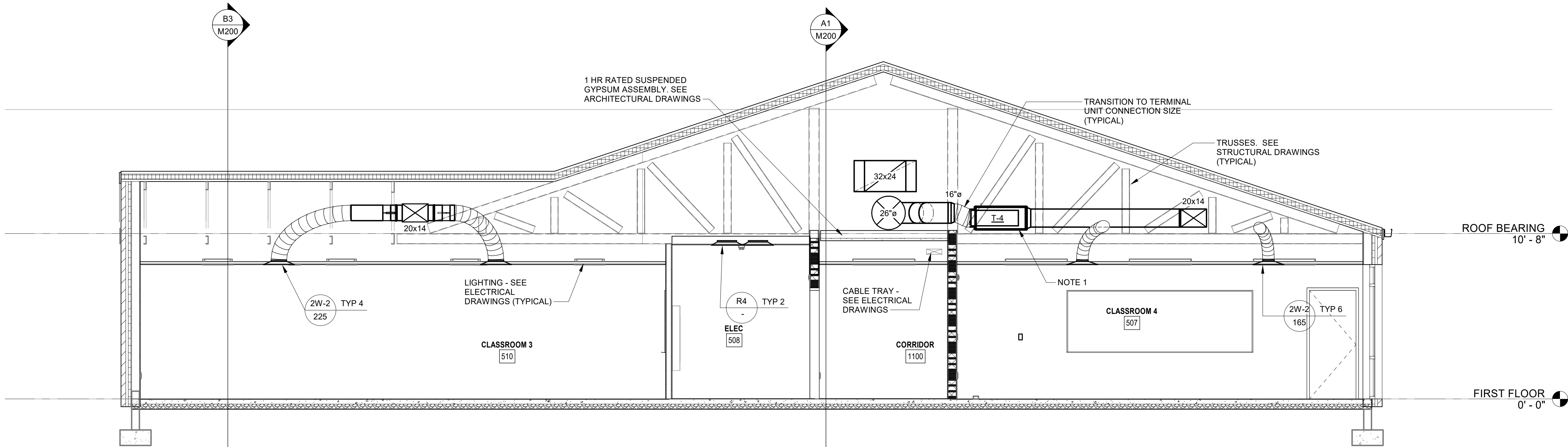
100% CONSTRUCTION DOCUMENTS
PRINCIPAL IN CHARGE:
PROJECT ARCHITECT:
DRAWN BY:

12/20/2021
DL
DL
AL, DC

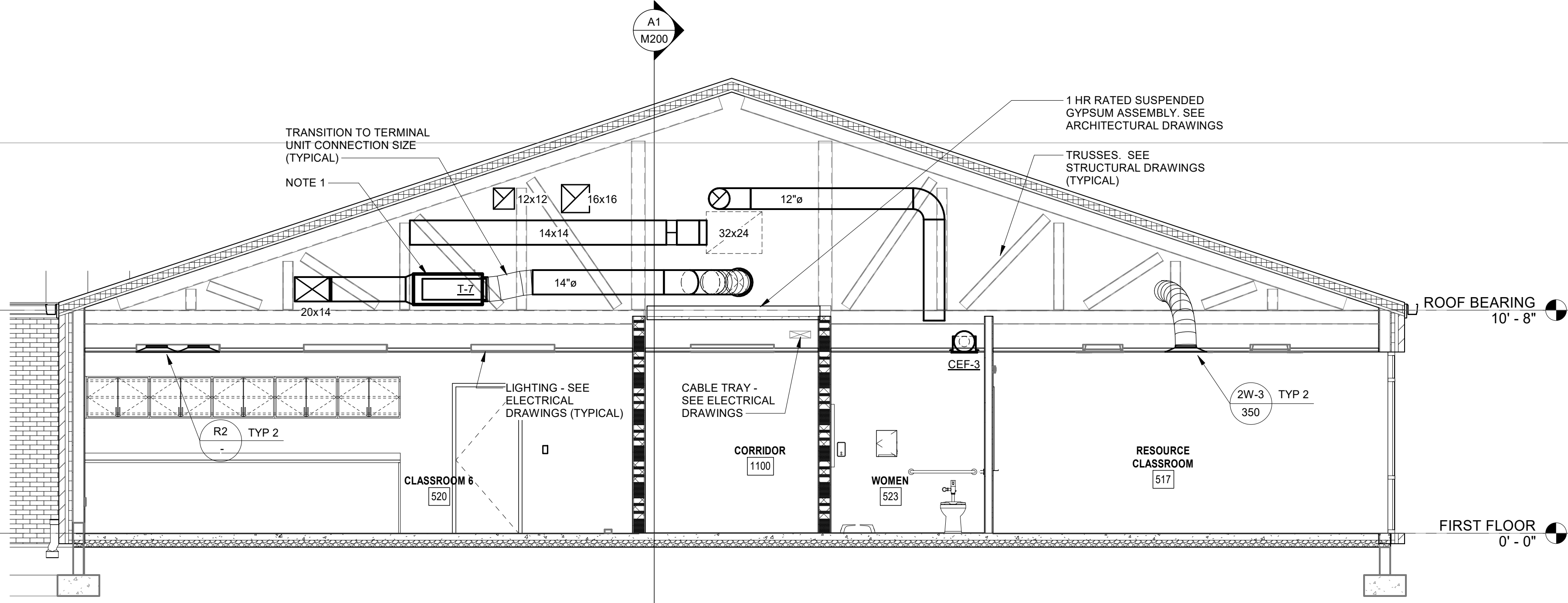
BUILDING
SECTIONS - HVAC

SHEET NO. PROJ. NO. 021352

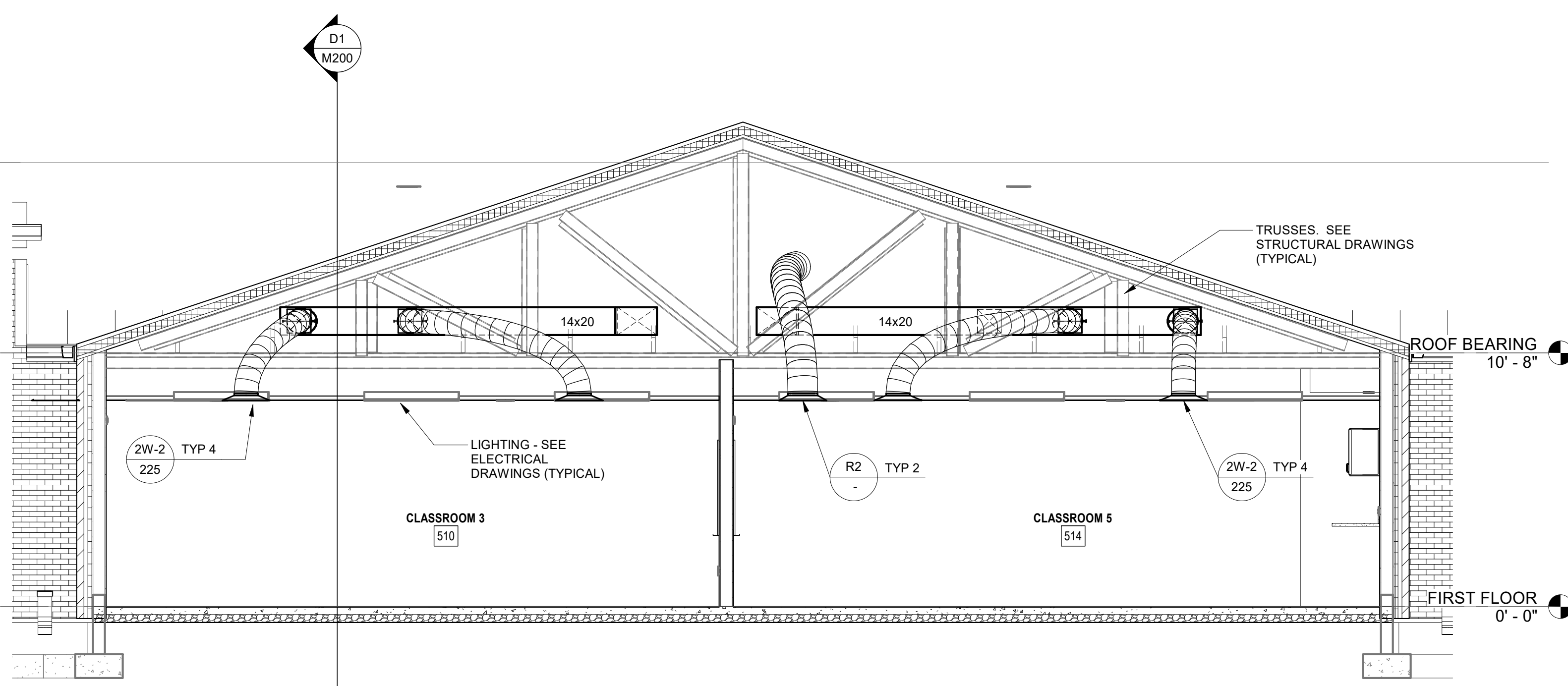
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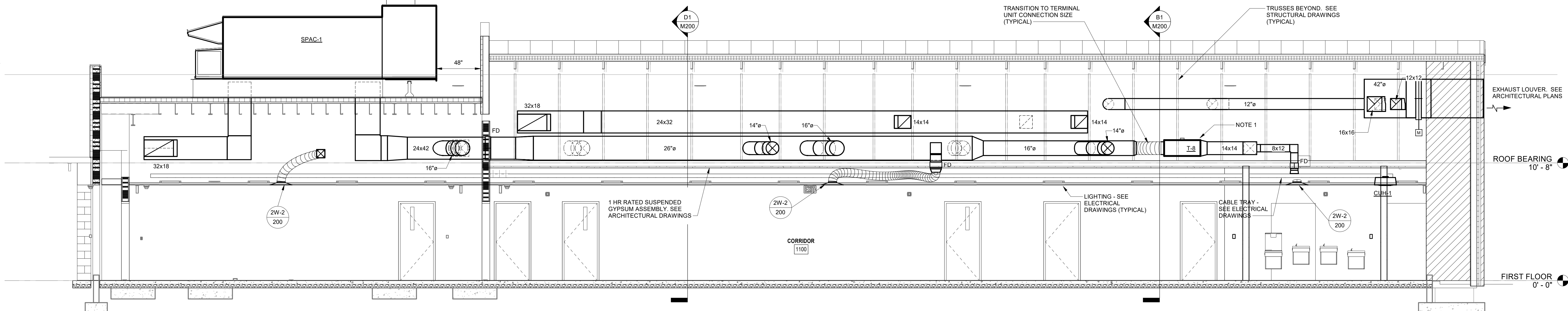
D1
M200
BUILDING SECTION
1/4" = 1'-0"



B1
M200
BUILDING SECTION
1/4" = 1'-0"



B3
M200
BUILDING SECTION
1/4" = 1'-0"



A1
M200
BUILDING SECTION A
1/4" = 1'-0"

SHUTOFF AIR TERMINAL UNIT SCHEDULE																						
TERMINAL #	TYPE	PRIMARY AIR				AIR PD (a)		REHEAT COIL						NC LEVELS (b)		DUCT INLET (c)	MAX WEIGHT (#)	ELECTRICAL			MANUFACTURER AND MODEL	REMARKS
		CLG MAX	CLG MIN	HTG MIN	HTG MAX	UNIT	ESP *	AIR		ELECTRICAL			RAD.	DISCH.	MCA			MOCP	VOLT / PH			
								ENT T	LVG T	MBH (c)	MBH (d)	KW (e)								VOLT / PH		
T-1 & T-4	VAV	1100	330	330	②	0.03	0.5	55	93.2	6.1	7.6	4.0	277/1	30	29	10	100	18.1	20	277/1	TRANE VCEF 10	①③④
T-2 & T-5	VAV	1000	300	300	②	0.03	0.5	55	91.7	5.5	6.4	3.5	277/1	27	27	10	100	15.8	20	277/1	TRANE VCEF 10	①③④
T-3 & T-7	VAV	900	300	300	②	0.11	0.5	55	91.7	5.5	6.4	3.5	277/1	32	32	8	100	15.8	20	277/1	TRANE VCEF 8	①③④
T-6	VAV	700	300	300	②	0.07	0.5	55	91.7	5.5	6.4	3.5	277/1	26	27	8	100	15.8	20	277/1	TRANE VCEF 8	①③④
T-8	VAV	600	300	300	②	0.05	0.5	55	91.7	5.5	6.4	3.5	277/1	25	26	8	100	15.8	20	277/1	TRANE VCEF 8	①③④
* INCLUDE DOWNSTREAM DUCT AND GRILLES, BUT DOES NOT INCLUDE HEATING COIL. (a) INCHES WG; (b) NC LEVELS IN ACCORDANCE WITH AHRI 885. SOUND DATA BASED UPON AHRI 880; (c) REHEAT LOAD (TO 72 DEG F); (d) BUILDING LOAD; (e) TOTAL HEATING REQUIRED; (f) INCHES DIAMETER.																						
① MAX. INLET VELOCITY OF 2500 FPM.																						

FAN SCHEDULE													
FAN #	LOCATION	SERVICE	CFM	ESP	MAX BHP	MAX HP	RPM	MAX + SONES	MAX WEIGHT (#)	ELECTROL VOLT / PH	CONTROL	MANUFACTURER AND MODEL	REMARKS
CEF-1	BOYS 527	TOILET EXHAUST	400	.375	-	350W	1100	6.7	50	120/1	BACS	GREENHECK SPA700	(4)(6)(8)(10)(18)
CEF-2	GIRLS 525	TOILET EXHAUST	400	.375	-	350W	1100	6.7	50	120/1	BACS	GREENHECK SPA700	(4)(6)(8)(10)(18)
CEF-3	MEN 519	TOILET EXHAUST	100	.25	-	113W	1400	3.1	50	120/1	OCC SENSOR	GREENHECK SPA190	(4)(6)(8)(10)(18)(26)
CEF-4	WOMEN 523	TOILET EXHAUST	100	.25	-	113W	1400	3.1	50	120/1	OCC SENSOR	GREENHECK SPA190	(4)(6)(8)(10)(18)(26)
CEF-5	CUSTODIAL 518	JANITOR EXHAUST	100	.25	-	113W	1400	3.1	50	120/1	BACS	GREENHECK SPA190	(4)(6)(8)(10)(18)
EF-1	ELECTRICAL 508	ELECTRICAL ROOM	1200	.375	.18	1/4	1140	6.8	100	120/1	T-STAT	GREENHECK SQ120	(3)(6)(8)(9)(10)
* SOUND LEVEL DOES NOT INCLUDE ANY UNIT ACOUSTICAL OPTIONS													
(1) ROOFTOP FAN	(5) WALL FAN	(9) BIRDSCREEN	(13) MOUNTING COLLAR	(17) ACOUSTICAL HOUSING	(21)SEE SEQUENCE IN SPECIFICATIONS	(25) VFD LOCATED IN HOOD CONTROL PANEL							
(2) UPBLAST FAN	(6) DIRECT DRIVE	(10) DISCONNECT SWITCH	(14) MOTORIZING DAMPER	(18) FAN SPEED CONTROLLER	(22)ADAPTER CURB								
(3) INLINE FAN	(7) BELT DRIVE	(11) ROOF CURB	(15) FILTER	(19) SPARK RESISTANT	(23)INVERTER DUTY MOTOR	(26) OCC SENSOR WITH FAN							
(4) CEILING CENTRIFUGAL FAN	(8) BACKDRAFT DAMPER	(12) MOTOR SIDE FAN GUARD	(16) CONTROLLABLE ECM MOTOR	(20) SPECIAL COATING	(24)BUILT-IN OCCUPANCY SENSOR								

9/20

S3201

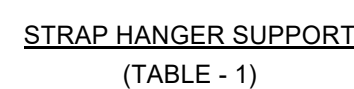
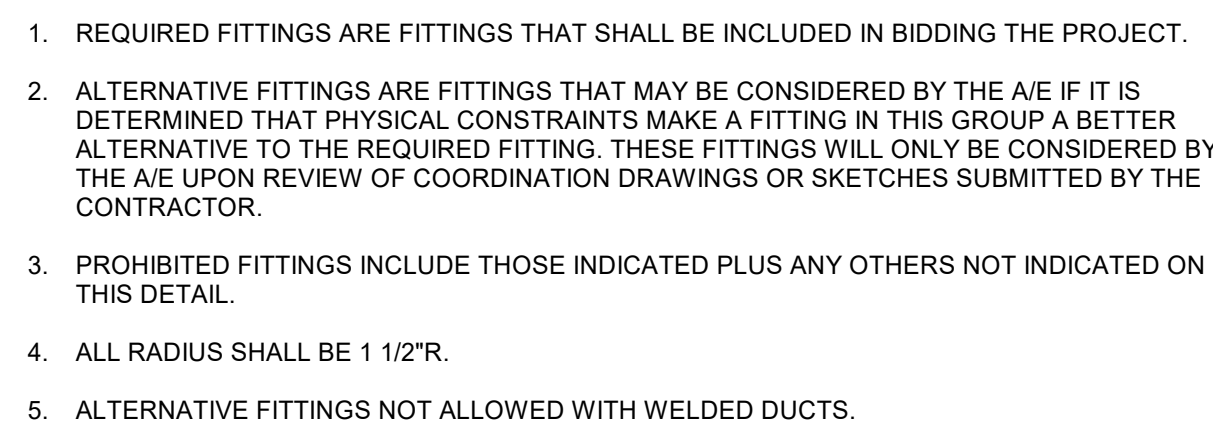
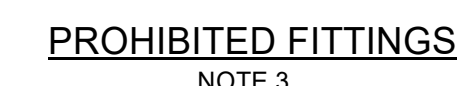
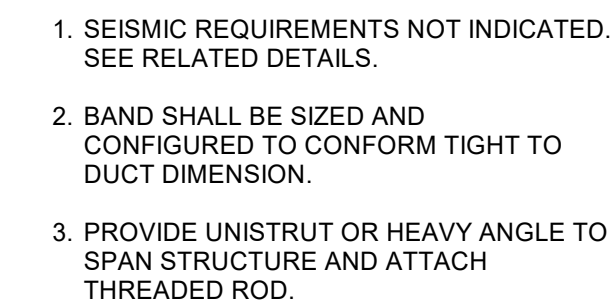
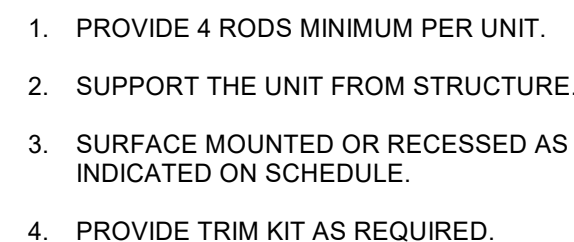
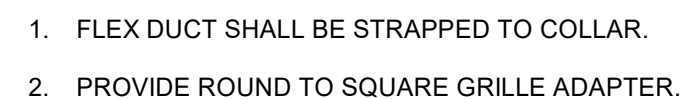
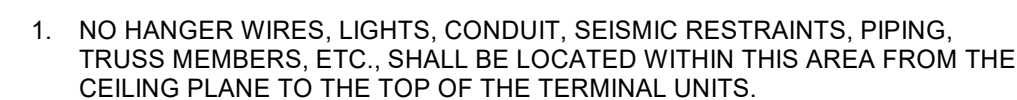
CEILING UNIT HEATER SCHEDULE						
HEATER #	CFM	KW	MAX WEIGHT (#)	ELECTRICAL VOLT / PH	MANUFACTURER AND MODEL	REMARKS
CUH-1	425	3	50	277/1	MARKEL 3480	③④⑧
① BUILT-IN T-STAT	⑤ SURFACE MOUNTED					
② REMOTE T-STAT	⑥ CONTROL PANEL					
③ DISCONNECT	⑦ 24V T-STAT					
④ RECESSED	⑧ FLAT PLATE SENSOR					

3/16

S3115

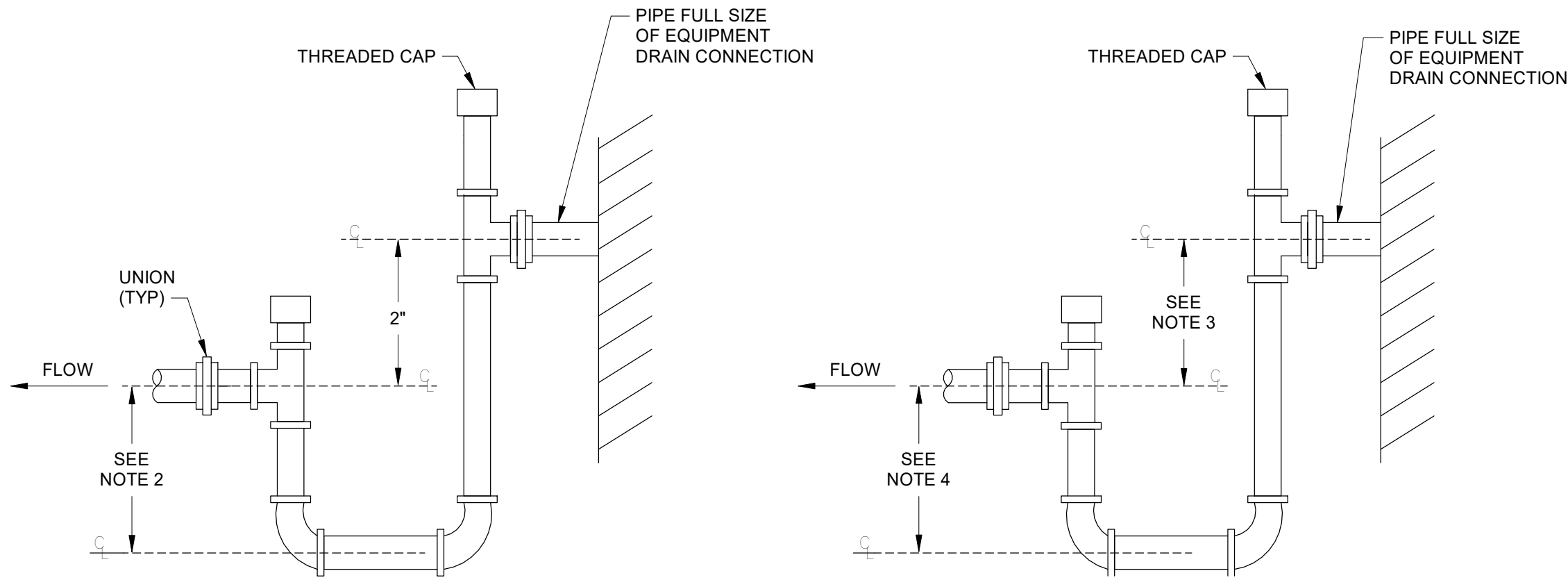
ROOFTOP Dx VARIABLE AIR VOLUME AIR HANDLER UNIT SCHEDULE																														
SPAC #	EXT * SP(a)	CFM			FANS					COMPRESSOR		ELECTRIC HEAT		COOLING COIL CAPACITY								MAX. WEIGHT #	MAX DIM. (IN)			ELECTRIC			MANUFACTURER AND MODEL	REMARKS
		TOT	MIN	OA	OUTDOOR		INDOOR			NO	RLA	KW	VOLT/PH	MBH (NET)		OUTDOOR DB T	ENT AIR		LVG AIR		EER(b)		LENGTH	WIDTH	HEIGHT	MCA	MOCp	VOLT/PH		
					NO	FLA	NO	BHP	HP					TOH	SENS		DB	WB	DB	WB										
SPAC-1	3.0	7200	2600	1600	2	2.7	2	2.78	5	2	23/22.7	60	460/3	349	190	95	72.1	67.3	49.7	49.6	11.0	7500	272	92	N/A	110.2	125	460/3	TRANE RE30 INTELLIPAK	①②③④⑤⑥⑦⑧⑨⑩⑪⑫
* ESP INCLUDES DUCT, GRILLES, AND LOADED FILTERS (a) INCHES WG (b) ARI CONDITIONS																														
① ROOFTOP CURB	③ SCR HEATER	⑤ INVERTER COMPRESSORS					⑦ SINGLE PT CONNECTION					⑨ LOW LEAK OA DAMPER					⑪ NEEDLEPOINT BIPOLAR IONIZATION. SEE SPECIFICATIONS													
② DOWN DISHCHARGE	④ FAN VFD'S	⑥ NON-FUSED DISCONNECT SWITCH					⑧ GFI RECEPTACLE					⑩ OA AIRFLOW MEASUREMENT					⑫ LOW AMBIENT OPERATION TO 25°F													
8/14																														
S3255																														

SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE (DUCTLESS)																																	
INDOOR UNIT												OUTDOOR UNIT										COOLING COIL CAPACITY						REMARKS					
INDOOR AC #	LOCATION	CFM		EXT * SP(a)	HP	ELECTRIC HEAT		MAX. WEIGHT #	ELECTRIC			MANUFACTURER AND MODEL	OUTDOOR AC #	FANS		COMPRESSOR		MAX. WEIGHT #	ELECTRIC			MANUFACTURER AND MODEL	MBH		OUTDOOR DB T	ENT AIR			LVG AIR		SEER(b)		
		TOT	OA			KW	VOLT/PH		MAX MCA	MOCp	VOLT/PH			NO	RLA	MAX MCA	MOCp		VOLT/PH	TOT	SENS		DB	WB		DB	WB						
IDAC-1	DATA CLOSET	455	0	0	-	-	-	50	1.0	-	-	mitsubishi tPKA0-A018	ODAC-1	46 W	1	1	7	150	11	28	208/1	mitsubishi TRUY A018	18	13.1	95	-	-		DB	WB	-	-	19.8
* INCLUDES DUCT, GRILLES, AND LOADED FILTERS (a) INCHES WG (b) @ ARI CONDITIONS																																	
① PROVIDE START CAPACITOR ③ HARD WIRED THERMOSTAT ⑤ WALL MOUNTED INDOOR UNIT ⑦ R410 REFRIGERANT																																	
② LOW AMBIENT CONTROL TO 25°F ④ POWER INDOOR UNIT FROM OUTDOOR UNIT ⑥ DIGITAL SCROLL OR INVERTER COMPRESSOR																																	
9/20																																	
S3252E																																	



L₁OR L₂	2"x2"x1/4"	2-1/2"x2-1/2"x1/4"
36"	1200 LBS.	1940 LBS.
48"	1160 LBS.	1900 LBS.
60"	1060 LBS.	1800 LBS.
72"	900 LBS.	1640 LBS.
84"	660 LBS.	1400 LBS.
96"	320 LBS.	1060 LBS.

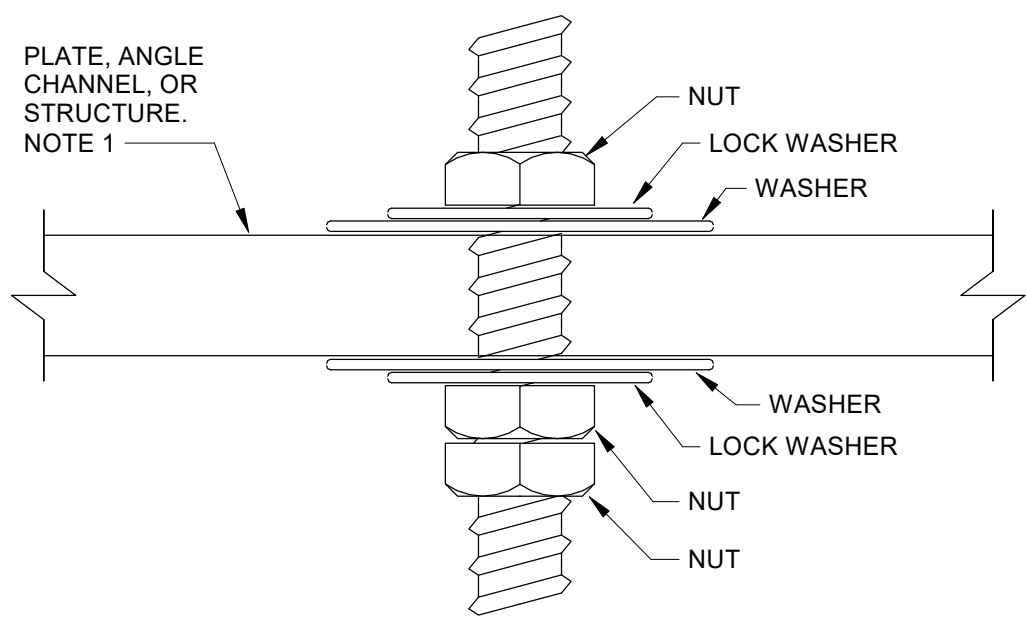
ROUND AND OVAL DUCT FITTINGS
3046C NOT TO SCALE 08/19



BLOW THRU DRAIN DRAW THRU DRAIN

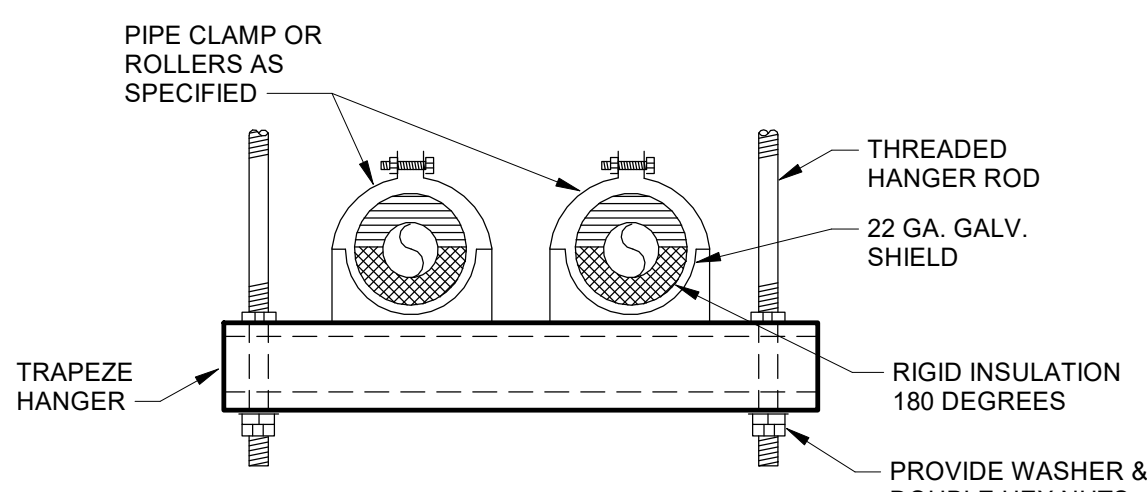
- NOTES:
1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
 2. HEIGHT SHALL BE EQUAL TO UNIT MAXIMUM TOTAL STATIC PRESSURE PLUS 1/2".
 3. HEIGHT SHALL BE EQUAL TO UNIT MAXIMUM NEGATIVE STATIC PRESSURE PLUS 1".
 4. HEIGHT SHALL BE 1/2 OF HEIGHT INSTALLED IN NOTE 3.
 5. PIPE TO NEAREST DRAIN.
 6. TRAP SHALL NOT BLOCK ACCESS TO EQUIPMENT.
 7. PROVIDE UNIONS AT INLET AND OUTLET OF TRAP.
 8. DRAIN LINE SHALL BE 3/4" MIN OR UNIT CONNECTION SIZE, WHICHEVER IS LARGER.

EQUIPMENT CONDENSATE DRAIN DETAIL 3179B NOT TO SCALE 03/16



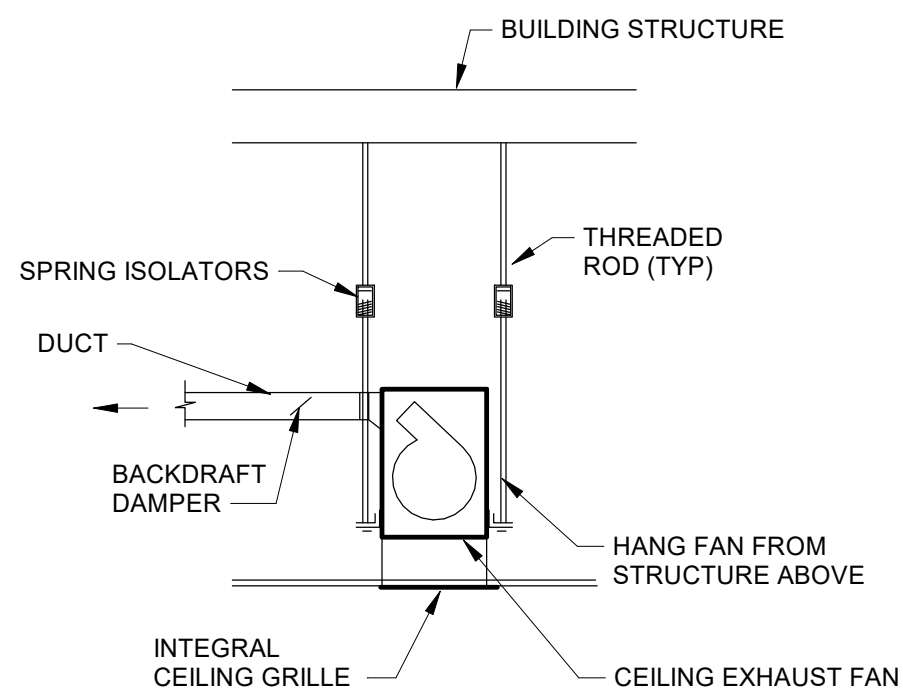
- NOTES:
1. THIS DETAIL INDICATES A METHOD OF ATTACHING THREADED RODS, BOLTS, OR SIMILARLY CONSTRUCTED COMPONENTS TO ANOTHER COMPONENT (I.E. ANGLE, CHANNEL, PLATE, STRUCTURE, ETC.). THIS ATTACHMENT METHOD MAY NOT BE SUITABLE IN ALL CASES BUT SHALL BE REQUIRED WHERE PRACTICAL. ALTERNATE METHODS, WHEN PRESENTED TO THE ENGINEER, MAY BE CONSIDERED.
 2. OTHER MORE SPECIFIC METHODS OF ATTACHMENT, SUCH AS SEISMIC ATTACHMENTS, SHALL APPLY WHERE SPECIFICALLY INDICATED.

ATTACHMENT TO THREADED BOLTS AND RODS DETAIL 3402 NOT TO SCALE 02/13



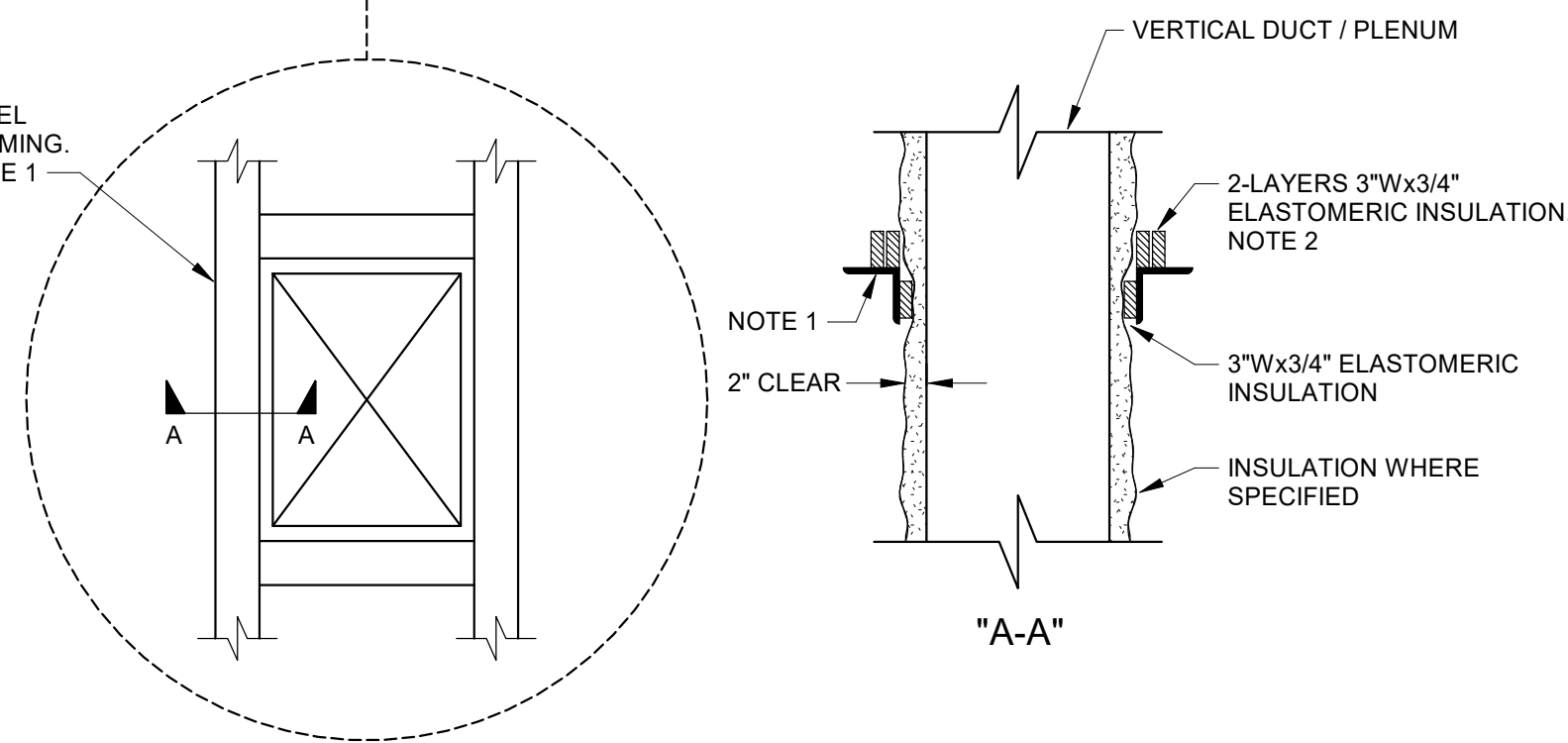
- NOTES:
1. INSULATE PIPE AS SPECIFIED.

TRAPEZE HANGER DETAIL 3403 NOT TO SCALE 04/12



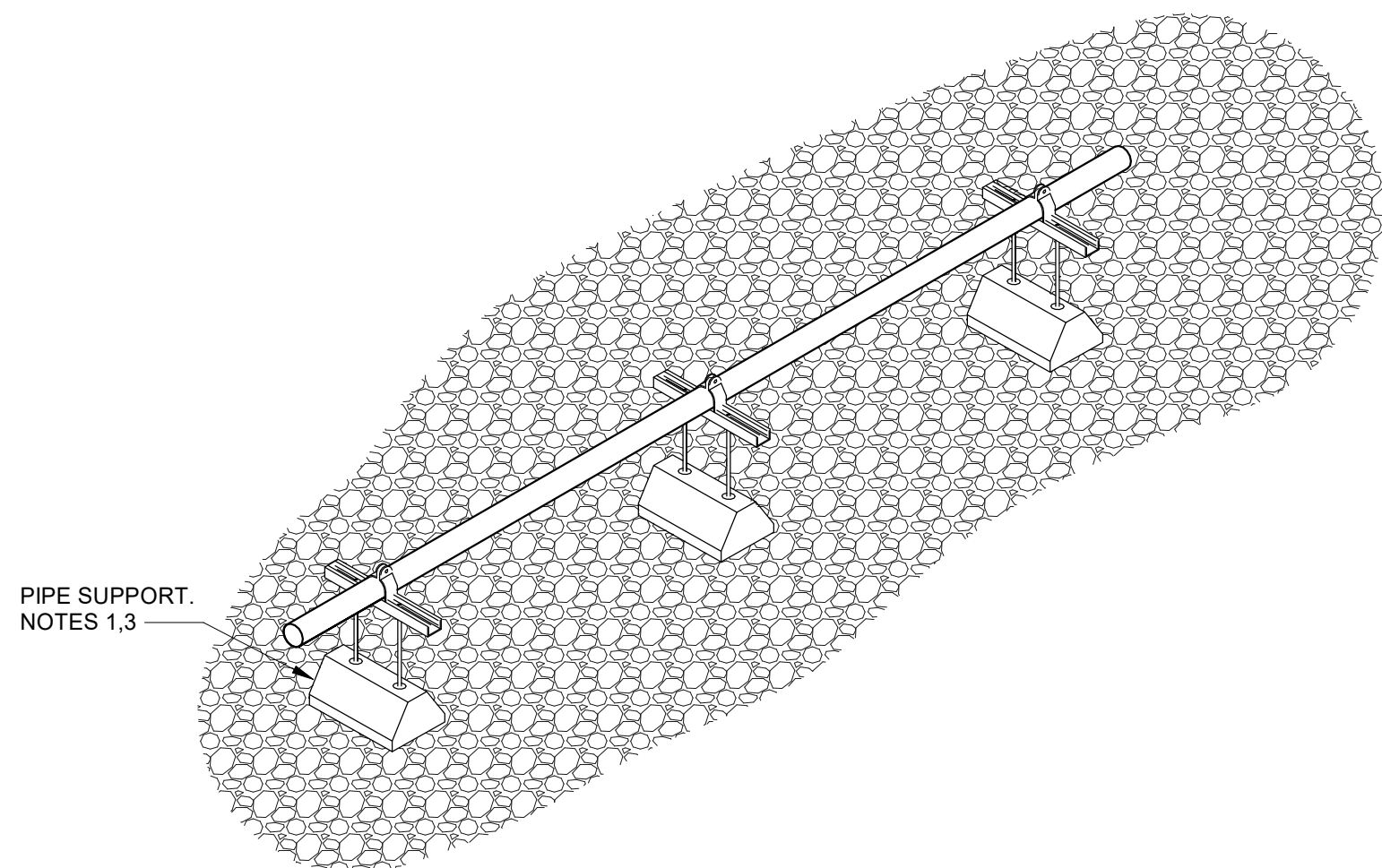
- NOTES:
1. FAN AND PARTS REQUIRING MAINTENANCE SHALL SWING DOWN AND BE FULLY SERVICEABLE.

CEILING EXHAUST FAN DETAIL 3602 NOT TO SCALE 10/09



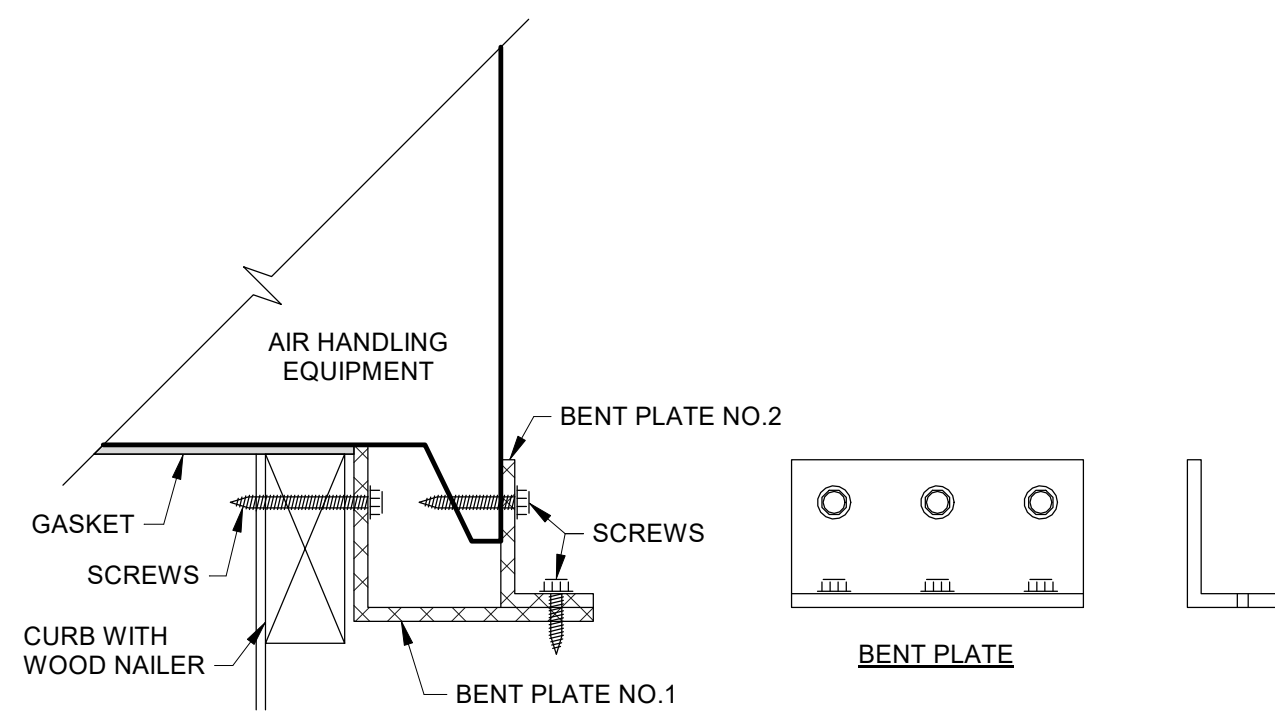
- NOTES:
1. ANGLE, CHANNEL OR SIMILAR FRAMING WHERE SHOWN ON STRUCTURAL PLANS SHALL BE COORDINATED BY THE MECHANICAL CONTRACTOR TO PROVIDE THE REQUIRED DUCT OPENING DIMENSIONS. WHERE THE PROPER DIMENSIONS ARE NOT PROVIDED, THE MECHANICAL CONTRACTOR SHALL PROVIDE AUXILIARY STEEL SO THAT REQUIRED CLEARANCE AS INDICATED ON THIS DETAIL ARE PROVIDED. SUPPLY AND RETURN DUCTS ARE SIMILAR.
 2. ELASTOMERIC INSULATION SHALL BE GLUED AND BANDED. INSTALL TIGHT TO STEEL FRAMING.

AIR HANDLER DUCT PENETRATIONS AT ROOF DETAIL 3609 NOT TO SCALE 10/09



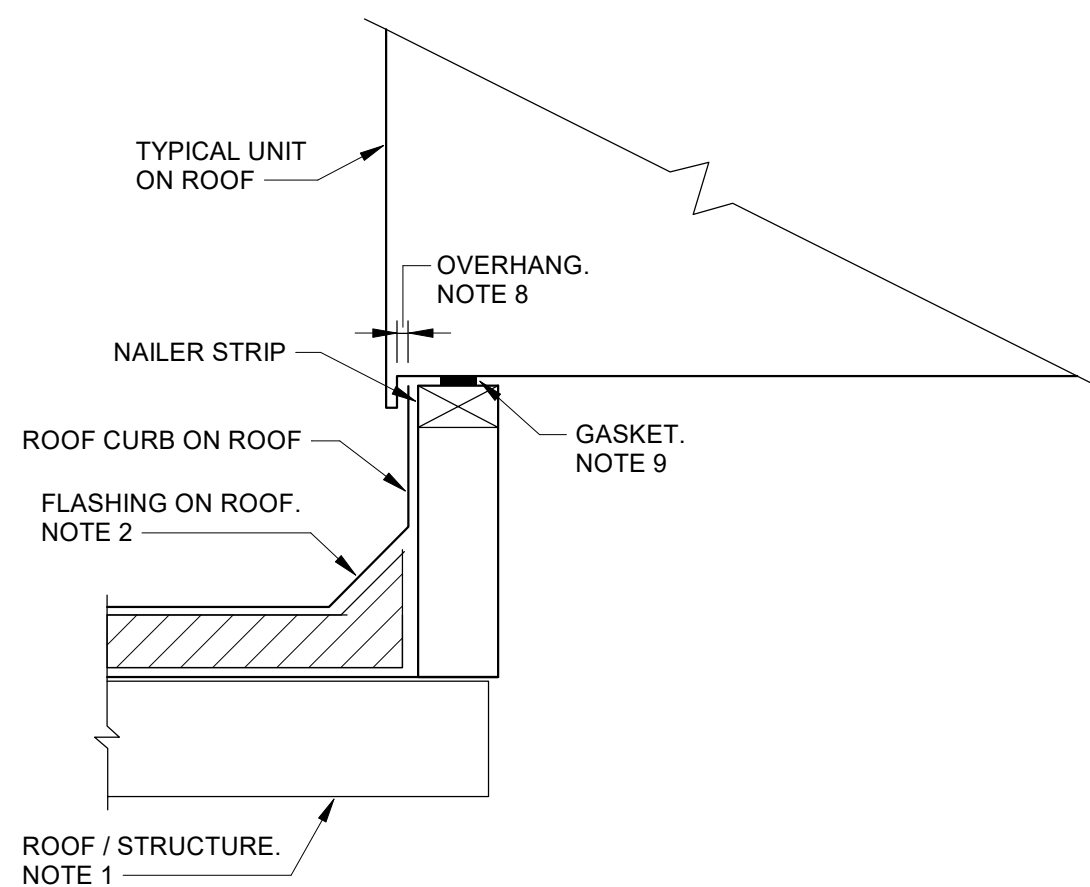
- NOTES:
1. PROVIDE SUPPORT 4'-0" ON CENTER.
 2. SEE SPECIFICATIONS FOR SUPPORT REQUIREMENTS.
 3. SET SUPPORTS IN HEAVY BED OF MASTIC.
 4. HEIGHT OF SUPPORT SHALL BE ADJUSTED TO PROVIDE A 1/4" PER FOOT SLOPE TOWARD THE DRAIN.

EQUIPMENT DRAIN PIPE SUPPORT ON ROOF DETAIL 3179C NOT TO SCALE 04/18



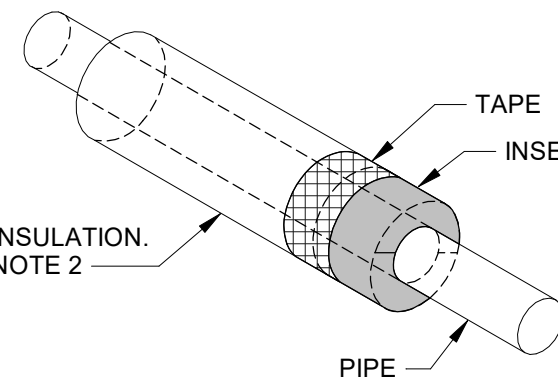
- NOTES:
1. THIS DETAIL REPRESENTS A GENERAL INSTALLATION DETAIL. SPECIFIC SIZES OF BENT PLATES, FASTENERS, ETC., TO BE DETERMINED BY THE SEISMIC ENGINEER.
 2. ALTERNATE ATTACHMENT MAY BE ACCEPTABLE WHEN SUBMITTED BY THE SEISMIC ENGINEER.

ROOFTOP UNIT ATTACHMENT TO CURB DETAIL - TYPE 1 3860A NOT TO SCALE 10/10

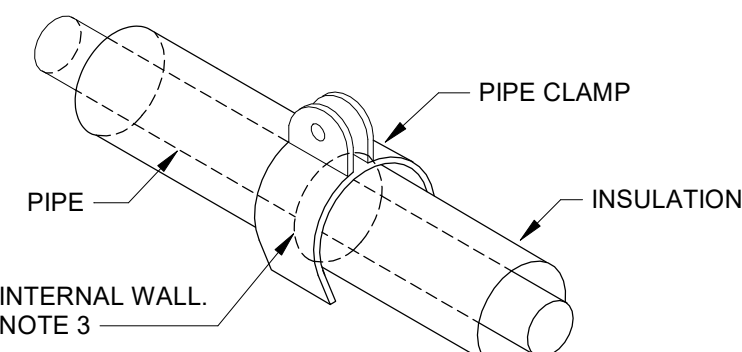


- NOTES:
1. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR ROOF / STRUCTURE CONSTRUCTION.
 2. FLASHING ON DETAIL IS DIAGRAMMATIC ONLY. SEE ARCHITECTURAL DETAILS AND / OR ROOFING INSTALLER'S REQUIREMENTS FOR ACTUAL FLASHING AND COUNTER FLASHING REQUIRED. COORDINATE CURB INSTALLATION WITH ROOFING WORK.
 3. PROVIDE ROOF CURB TO MATCH ROOF SLOPE.
 4. SEE SPECIFICATIONS FOR TYPE OF CURB REQUIRED.
 5. SEE SPECIFICATIONS FOR MATERIALS REQUIRED.
 6. SPOT WELD OR ANCHOR CURB TO STRUCTURE. SEE SEISMIC FOR ADDITIONAL REQUIREMENTS.
 7. ATTACH CAP TO CURB 12" O.C., MINIMUM 2 PER SIDE.
 8. PROVIDE 3/4" SPACE BETWEEN PLENUM OR CAP OVERHANG AND CURB FOR ROOFING AND FLASHING.
 9. PROVIDE 1/8" NEOPRENE OR ELASTOMERIC GASKET BETWEEN THE CURB AND EQUIPMENT.
 10. ELASTOMERIC INSULATION SHALL BE PROVIDED TO CLOSE GAP BETWEEN PIPE / INSULATION AND STRUCTURE / CURB.
 11. INSULATION SHALL BE 3/4" ELASTOMERIC.
 12. MULTIPLE PIPES THROUGH A COMMON PLENUM SIMILAR.
 13. MECHANICAL CONTRACTOR SHALL PROVIDE OPENINGS FOR INSTALLING CONTRACTOR AND SEAL ALL PENETRATIONS.
 14. TYPICAL FOR REFRIGERANT AND CONTROL CONDUIT.
 15. MECHANICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND OVERSIZE TO ALLOW INSTALLATION OF:
 - A. POWER CONDUIT.
 - B. CONTROL CONDUIT.

ROOF CURB DETAIL 3328B NOT TO SCALE 08/19



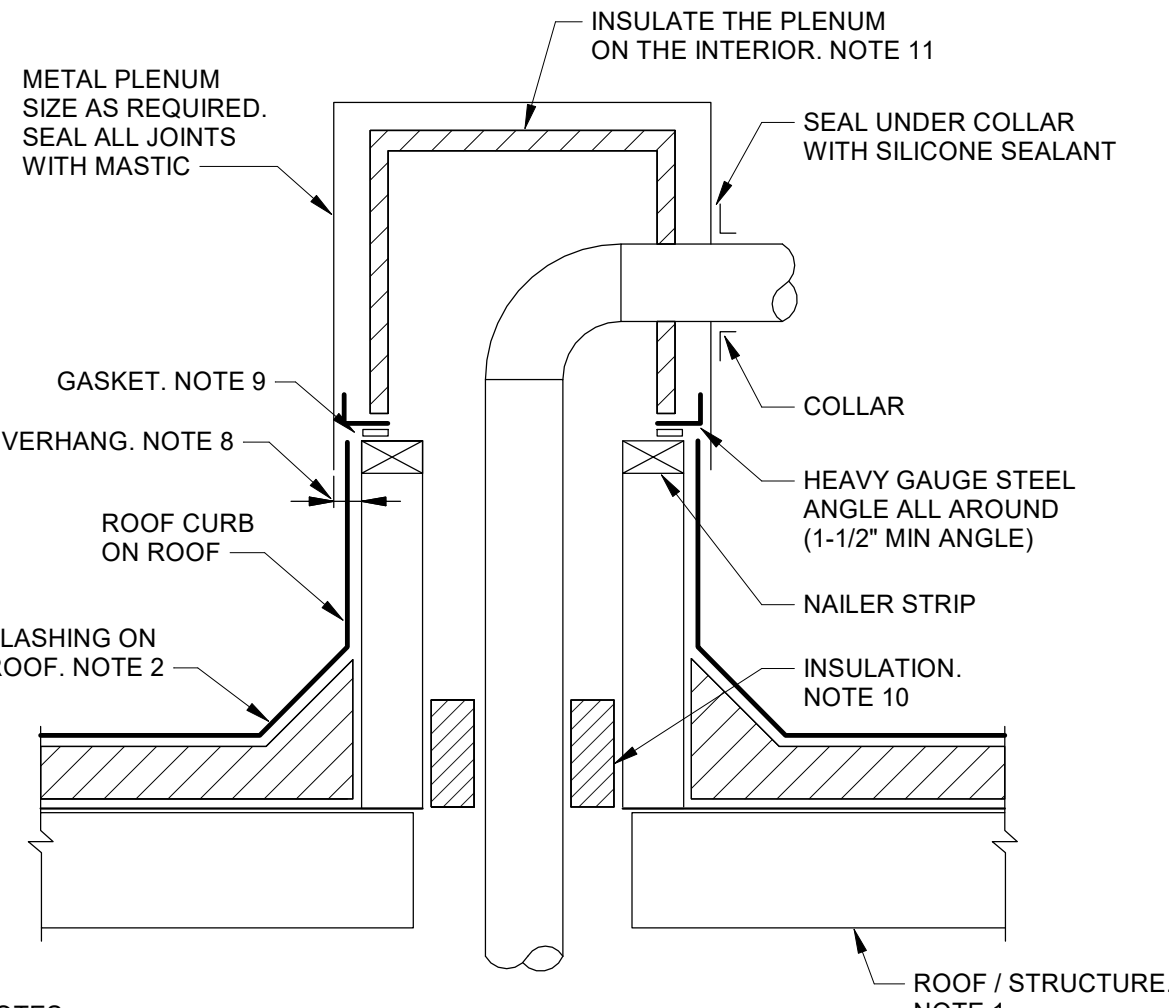
RIGID INSERT FOR ELASTOMERIC INSULATION (HANGERS AND CLAMPS)



REFRIGERANT PIPE CLAMP

- NOTES:
1. RIGID INSULATION INSERT SHALL OCCUR AT EVERY HANGER OR PIPE CLAMP UNLESS A REFRIGERANT PIPE CLAMP IS USED.
 2. INSULATION SHALL BUTT UP TIGHT TO INSERT. SEAL WITH MANUFACTURER'S TAPE TO PROVIDE AN AIRTIGHT SEAL.
 3. INSERT INSULATION INTO THE PIPE CLAMP POCKETS ON BOTH SIDES UP TO THE INTERNAL WALL TO CREATE A CONTINUOUSLY INSULATED ASSEMBLY. SEAL AROUND CLAMP WITH MANUFACTURER'S APPROVED TAPE.

REFRIGERANT PIPE SUPPORT DETAIL 3183 NOT TO SCALE 04/18



- NOTES:
1. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR ROOF / STRUCTURE CONSTRUCTION. ON CONCRETE DECK, CURB SHALL BE INSTALLED ON DECK UNLESS INDICATED OTHERWISE ON STRUCTURAL DRAWINGS.
 2. FLASHING ON DETAIL IS DIAGRAMMATIC ONLY. SEE ARCHITECTURAL DETAILS AND / OR ROOFING INSTALLER'S REQUIREMENTS FOR ACTUAL FLASHING AND COUNTER FLASHING REQUIRED. COORDINATE CURB INSTALLATION WITH ROOFING WORK.
 3. PROVIDE ROOF CURB TO MATCH ROOF SLOPE.
 4. SEE SPECIFICATIONS FOR TYPE OF CURB REQUIRED.
 5. SEE SPECIFICATIONS FOR MATERIALS REQUIRED.
 6. SPOT WELD OR ANCHOR CURB TO STRUCTURE. SEE SEISMIC FOR ADDITIONAL REQUIREMENTS.
 7. ATTACH CAP TO CURB 12" O.C., MINIMUM 2 PER SIDE.
 8. PROVIDE 3/4" SPACE BETWEEN PLENUM OR CAP OVERHANG AND CURB FOR ROOFING AND FLASHING.
 9. PROVIDE 1/8" NEOPRENE OR ELASTOMERIC GASKET BETWEEN THE CURB AND EQUIPMENT.
 10. ELASTOMERIC INSULATION SHALL BE PROVIDED TO CLOSE GAP BETWEEN PIPE / INSULATION AND STRUCTURE / CURB.
 11. INSULATION SHALL BE 3/4" ELASTOMERIC.
 12. MULTIPLE PIPES THROUGH A COMMON PLENUM SIMILAR.
 13. MECHANICAL CONTRACTOR SHALL PROVIDE OPENINGS FOR INSTALLING CONTRACTOR AND SEAL ALL PENETRATIONS.
 14. TYPICAL FOR REFRIGERANT AND CONTROL CONDUIT.
 15. MECHANICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND OVERSIZE TO ALLOW INSTALLATION OF:
 - A. POWER CONDUIT.
 - B. CONTROL CONDUIT.

PIPE THROUGH ROOF DETAIL - TYPE 1 3328A NOT TO SCALE 06/20

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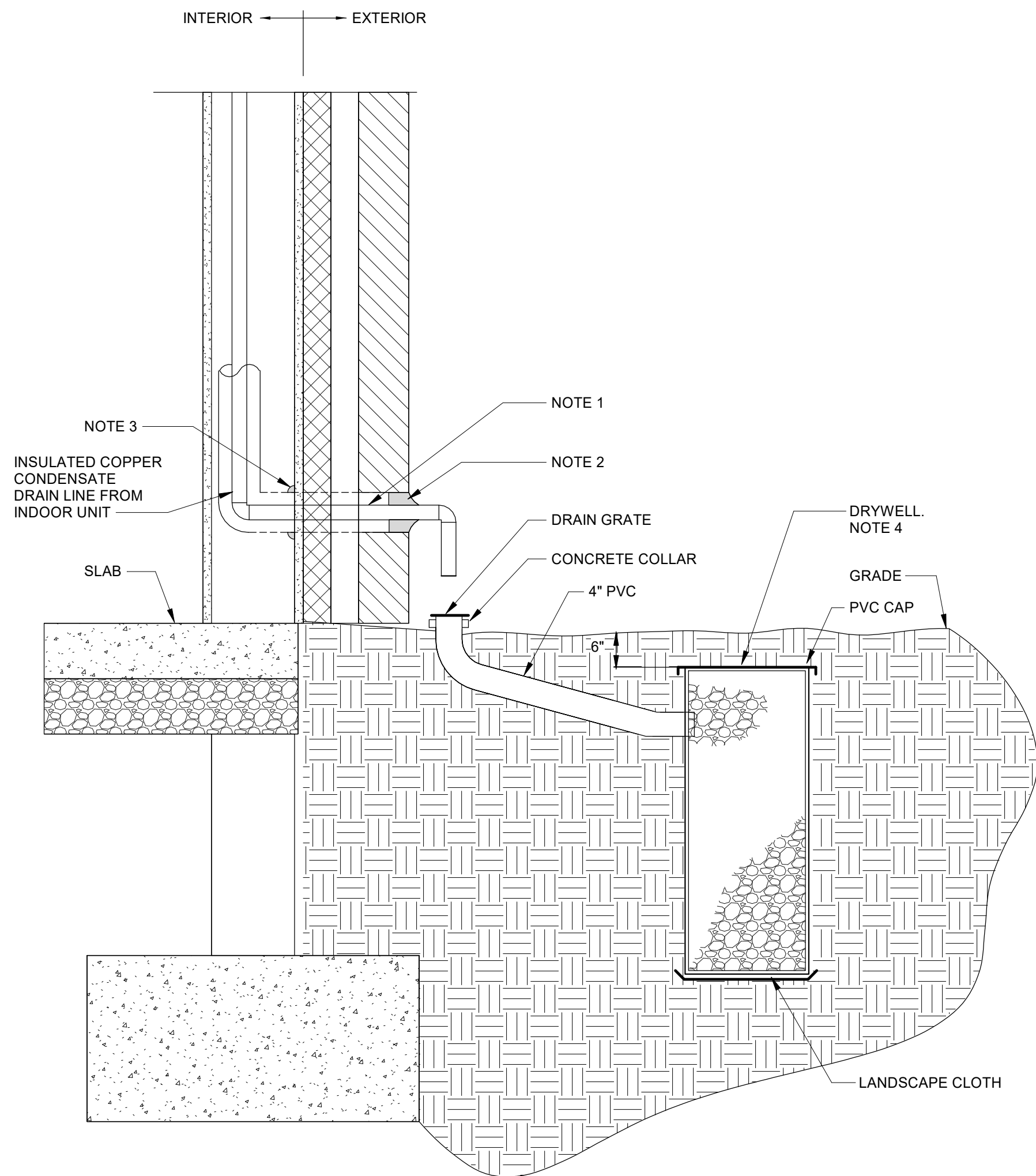
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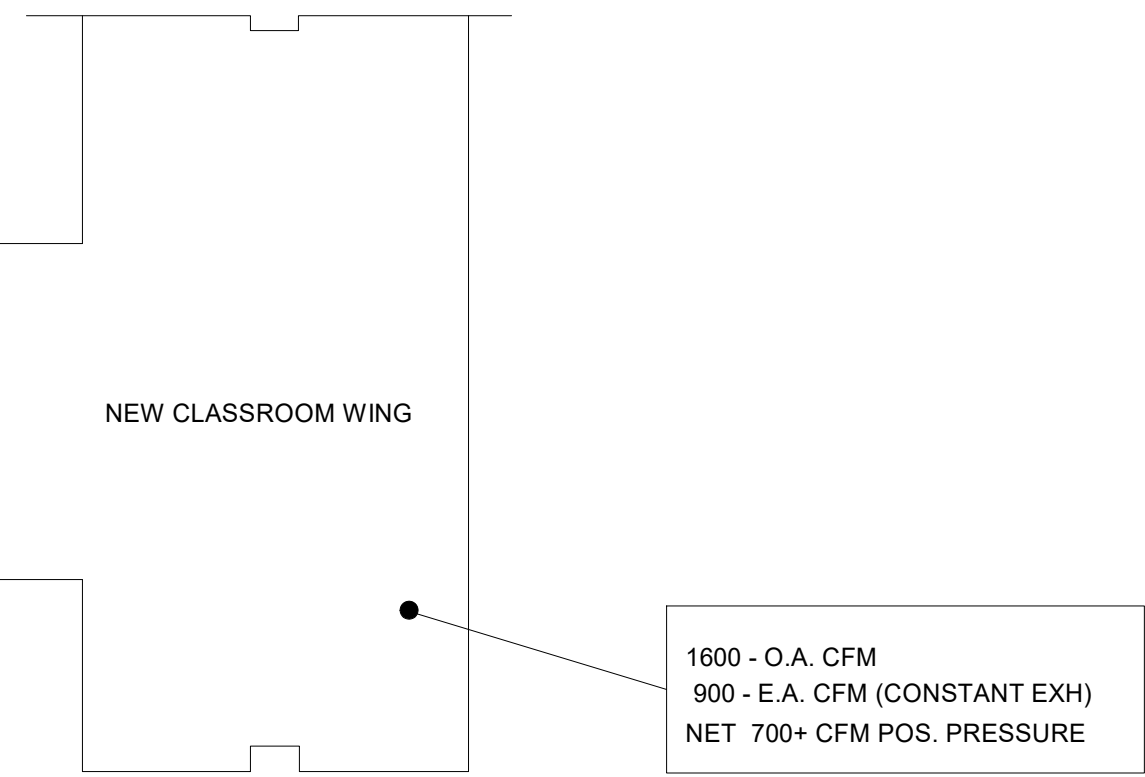


- NOTES:**
1. CORE DRILL ALL OPENINGS THROUGH EXTERIOR WALL ASSEMBLY.
 2. STOP PIPING INSULATION APPROXIMATELY 1" INSIDE WALL. SEAL WITH SILICONE SEALANT ALL AROUND.
 3. SEAL INTERIOR WITH SILICONE SEALANT ALL AROUND.
 4. PROVIDE 16" PVC PIPE x 36" LONG. FILL WITH #57 ROCK.

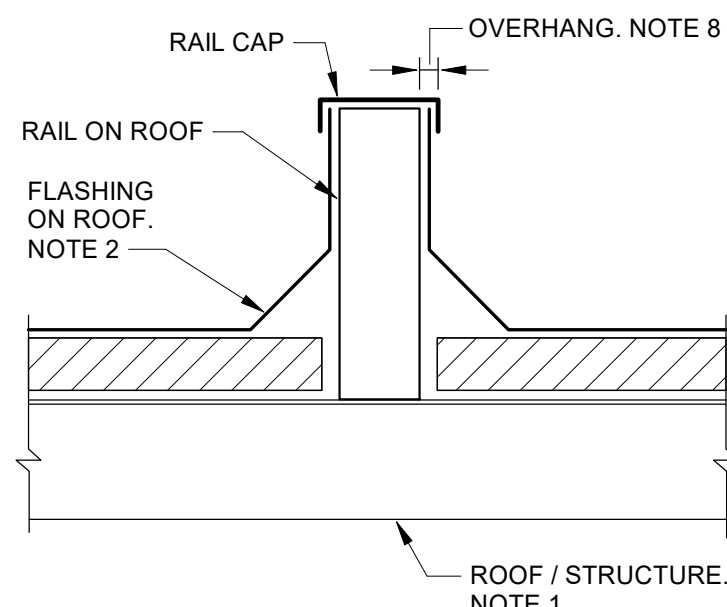
DRYWELL DETAIL
NOT TO SCALE

BUILDING AREA PRESSURIZATION		
EXHAUST AIRFLOW		
LOCATION	CFM	CONTROL
BOYS 527	400	BACS
GIRLS 525	400	BACS
MEN 519	100	OCC SENSOR
WOMEN 523	100	OCC SENSOR
CUSTODIAL 518	100	BACS
ELEC 508	1200	T-STAT
TOTAL CONSTANT EXHAUST = 900 CFM		
TOTAL CONSTANT OUTSIDE AIR = 2300 CFM		
PRESSURIZATION = 700 CFM		
NOTES:		

6/20 S3961

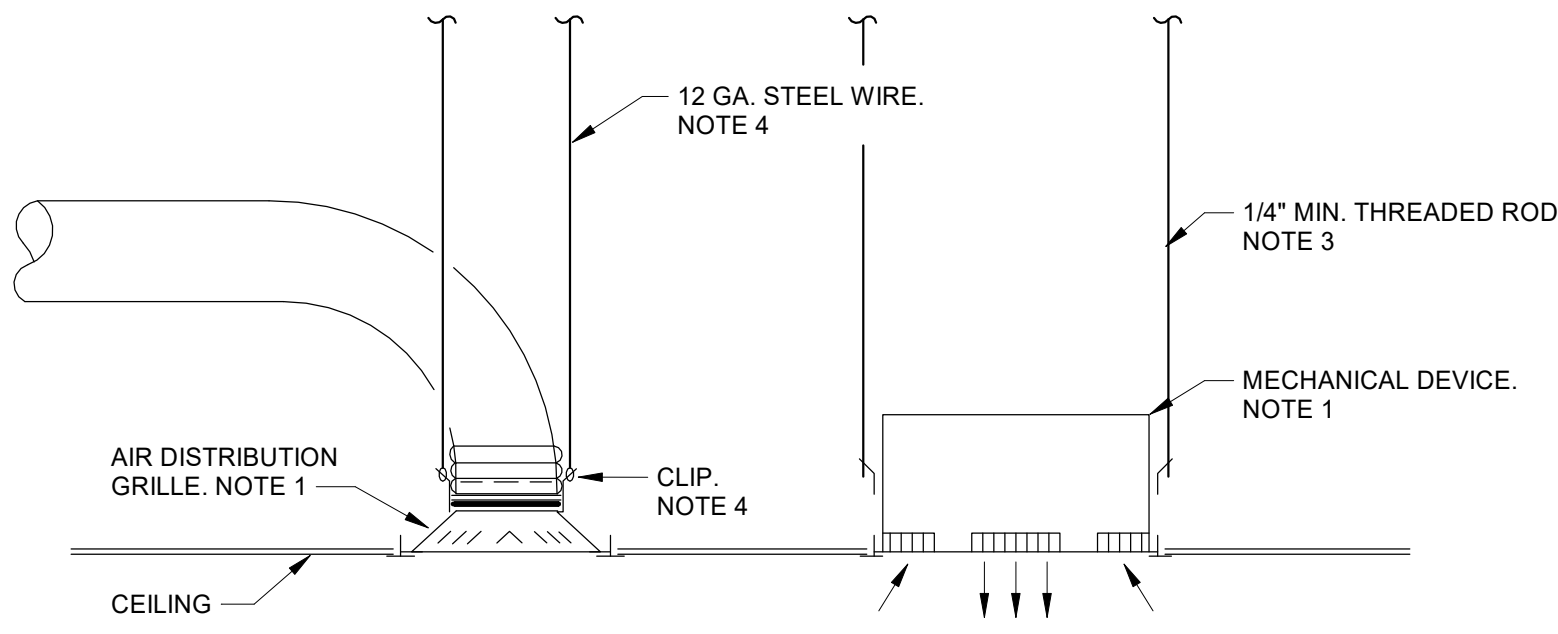


BUILDING PRESSURIZATION SCHEMATIC
3653 NOT TO SCALE 3/16



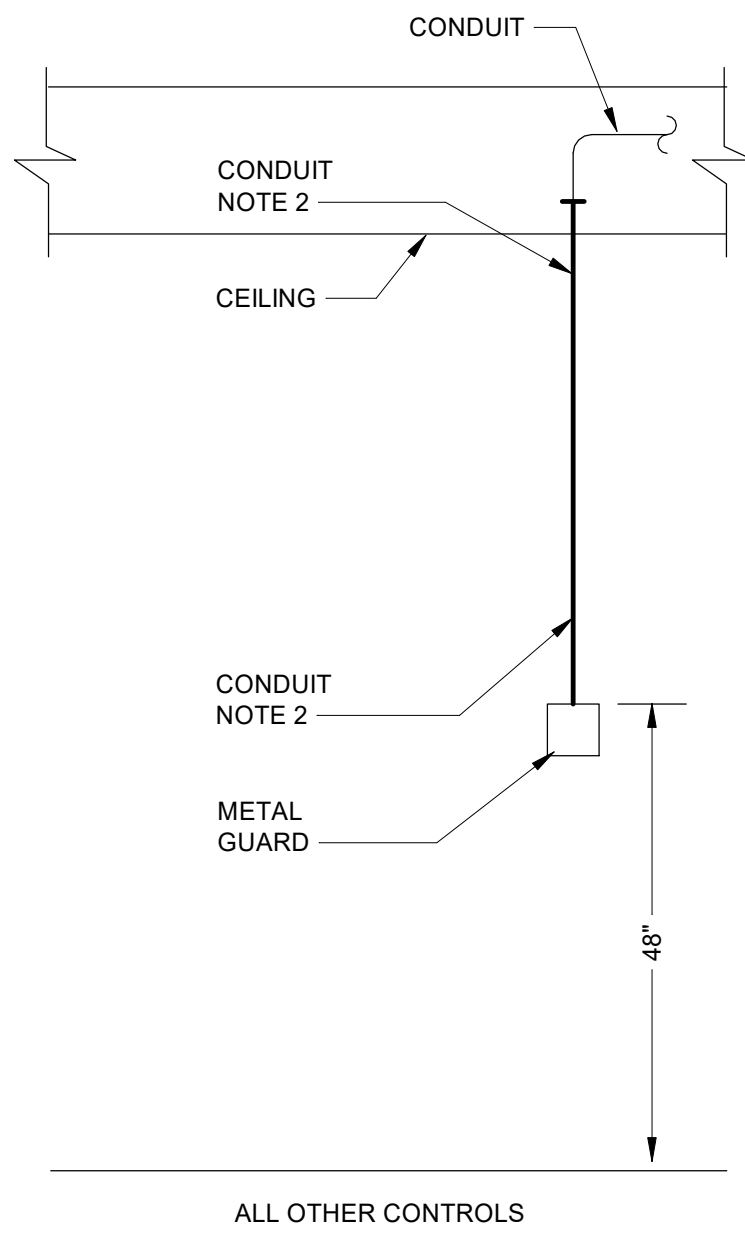
- NOTES:**
1. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR ROOF / STRUCTURE CONSTRUCTION. ON CONCRETE DECK, CURB SHALL BE INSTALLED ON DECK UNLESS INDICATED OTHERWISE ON STRUCTURAL DRAWINGS.
 2. FLASHING ON DETAIL IS DIAGRAMMATIC ONLY. SEE ARCHITECTURAL DETAILS AND / OR ROOFING INSTALLER'S REQUIREMENTS FOR ACTUAL FLASHING AND COUNTER FLASHING REQUIRED. COORDINATE CURB INSTALLATION WITH ROOFING WORK.
 3. PROVIDE ROOF CURB TO MATCH ROOF SLOPE.
 4. SEE SPECIFICATIONS FOR TYPE OF CURB REQUIRED.
 5. SEE SPECIFICATIONS FOR MATERIALS REQUIRED.
 6. SPOT WELD OR ANCHOR CURB TO STRUCTURE. SEE SEISMIC FOR ADDITIONAL REQUIREMENTS.
 7. ATTACH CAP TO CURB 12" O.C., MINIMUM 2 PER SIDE.
 8. PROVIDE 3/4" SPACE BETWEEN PLENUM OR CAP OVERHANG AND CURB FOR ROOFING AND FLASHING.
 9. SEAL ALL PENETRATIONS WITH APPROVED CAULKING OR BITUMASTIC.
 10. EQUIPMENT AND PIPE SUPPORTS SIMILAR.

ROOFTOP EQUIPMENT, DUCT, AND PIPING SUPPORT RAIL DETAIL
3325C NOT TO SCALE 08/19



- NOTES:**
1. DETAIL APPLIES TO ALL TYPES OF AIR DISTRIBUTION DEVICES, HEATERS, FAN COILS, AND OTHER COMPONENTS MOUNTED IN A CEILING SYSTEM.
 2. COMPONENTS UP TO 56# SHALL BE POSITIVELY ATTACHED TO CEILING GRID SYSTEM AND TWO WIRES TO STRUCTURE. THE CONTRACTOR HAS THE OPTION OF PROVIDING:
 - a. HURRICANE CLIPS SUITABLE FOR GRID.
 - b. INSTALLING TWO #10 SHEET METAL SCREWS IN CONCEALED PORTION OF GRID TO HOLD COMPONENT ONTO GRID.
 3. COMPONENTS GREATER THAN 56# SHALL BE SUPPORTED INDEPENDENT OF THE CEILING GRID SYSTEM.
 4. WHEN TWO WIRES ARE REQUIRED:
 - a. ATTACH CLIPS TO GRILLE.
 - b. ATTACH WIRES TO STRUCTURE. PROVIDE ADDITIONAL ANCHORS AND CLIPS, PERMANENTLY FASTENED TO STRUCTURE. WIRE SHALL ALLOW A MAXIMUM OF 6" INCHES FALL.
 - c. WIRE CONNECTION SHALL BE MADE WITH A MINIMUM OF 3 COMPLETE TURNS. TURNS SHALL BE COMPLETED WITHIN 2" AND NOT HAVE EXCESS WIRE GREATER THAN 1".
 5. WHEN ATTACHING TO THE CEILING GRID, THE ATTACHMENT SHALL BE MADE TO THE MAIN RUNNERS OR CROSS RUNNERS WITH THE SAME CARRYING LOAD AS THE MAIN RUNNERS.

CEILING MOUNTED MECHANICAL COMPONENT DETAIL
3650 NOT TO SCALE 01/21



- NOTES:**
1. SEE PLANS FOR LOCATION OF T'STAT AND HUMIDISTAT. REFER TO THIS DETAIL FOR ELEVATION OF DEVICES.
 2. IN NEW CONSTRUCTION ALL CONTROL WIRING AND CONDUIT SHALL BE CONCEALED IN THE WALLS.
 3. FLAT PLATE SENSORS, WHERE SPECIFIED, INSTALL SIMILARLY.

CONTROL DEVICE INSTALLATION
33225 NOT TO SCALE 10/09



SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL
CLASSROOM ADDITION AND
INTERIOR RENOVATION
SPARTANBURG, SC

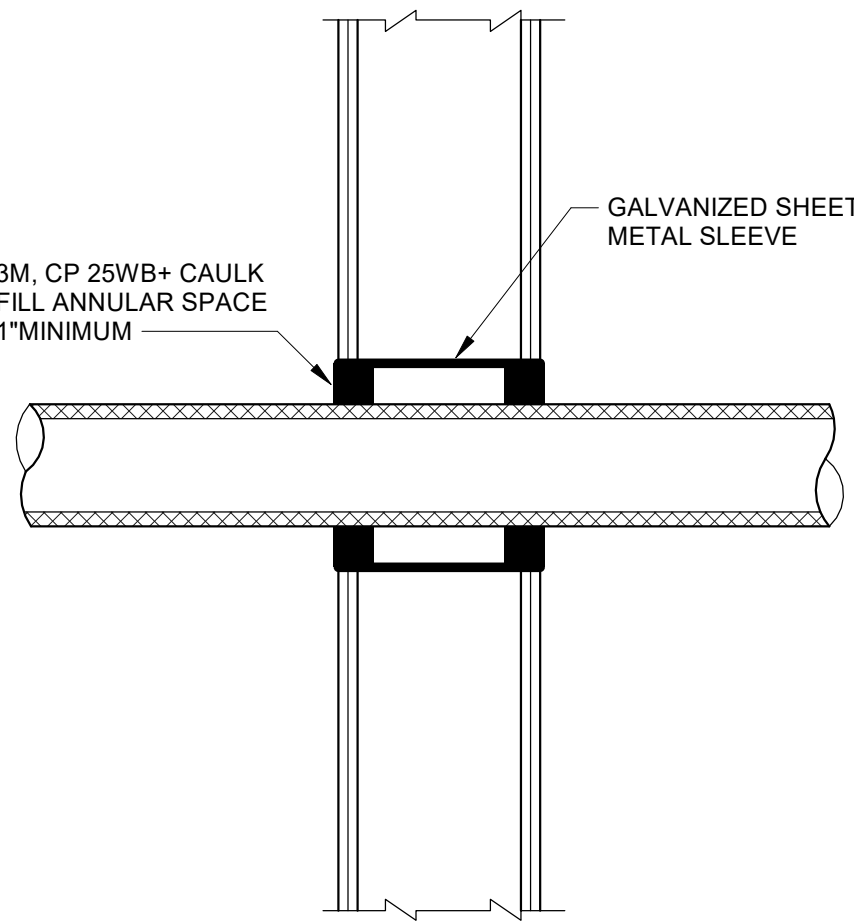
SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

100% CONSTRUCTION DOCUMENTS
PRINCIPAL IN CHARGE: DUL
PROJECT ARCHITECT: DUL
DRAWN BY: AL, DC

SHEET TITLE:
DETAILS - HVAC

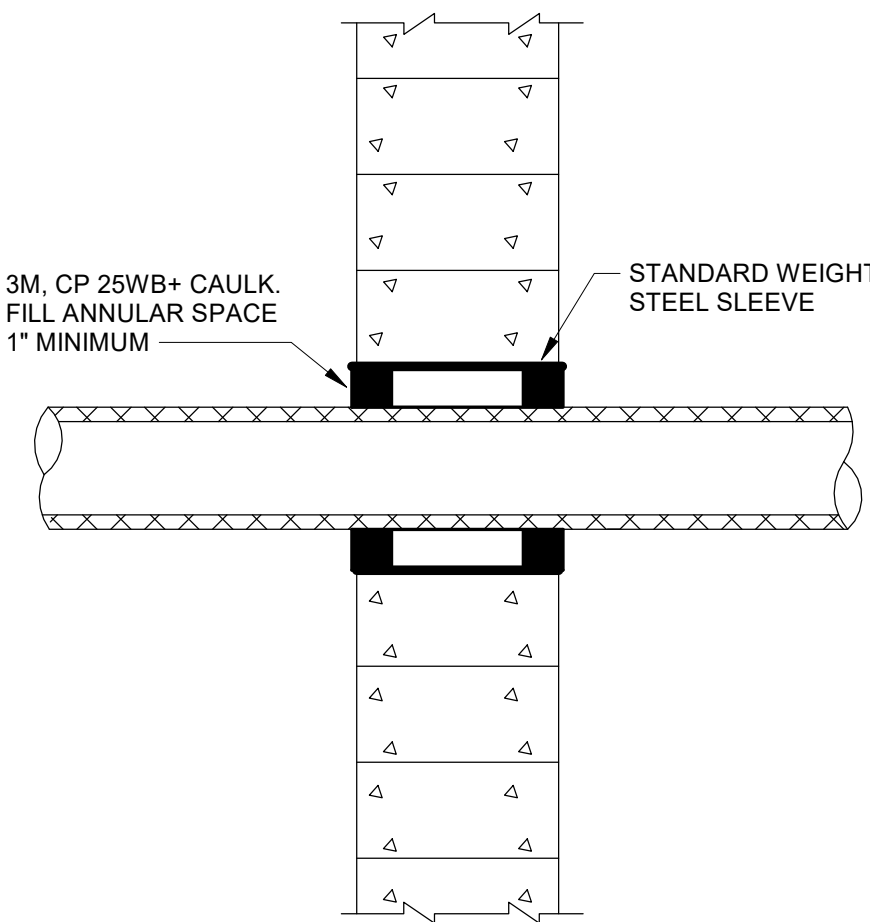
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33225 021352

M402

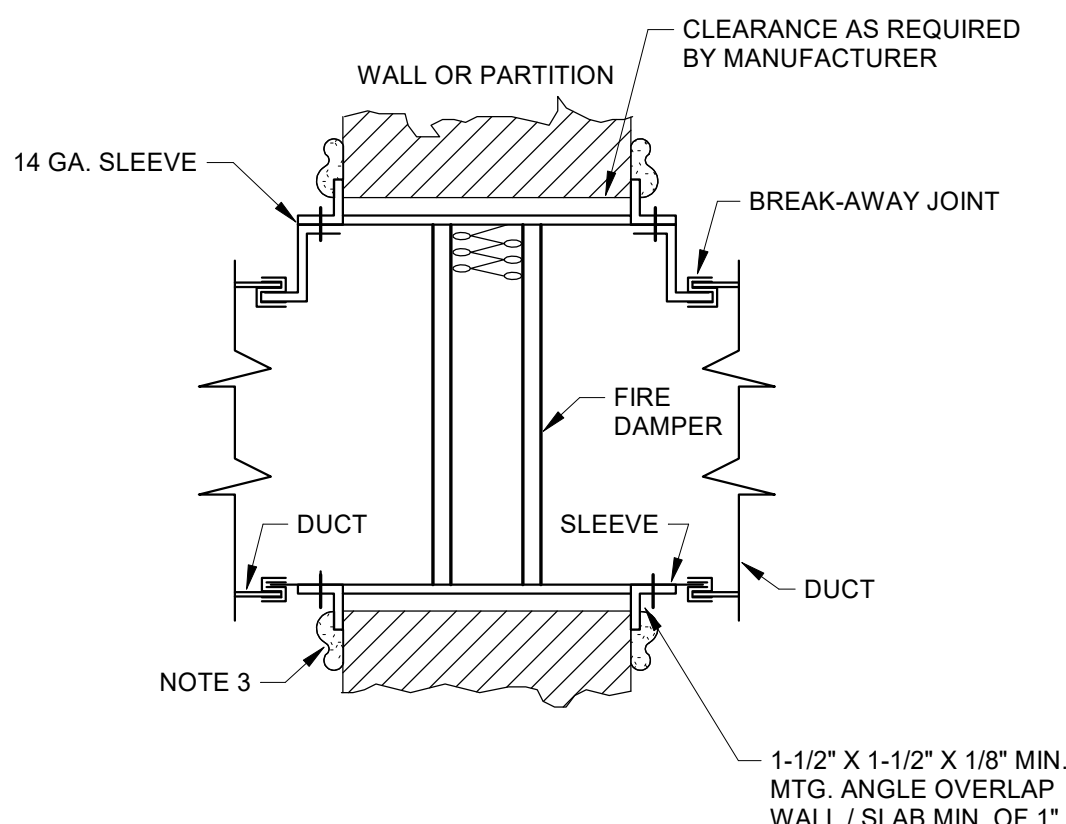


NOTES:
1. PROVIDE SLEEVE FOR ALL PIPING 2" OR LARGER.

**INSULATED AND NON-INSULATED
METAL PIPE AND CONDUIT THROUGH
NON-RATED GYPSUM WALL DETAIL**
3250C NOT TO SCALE 02/09

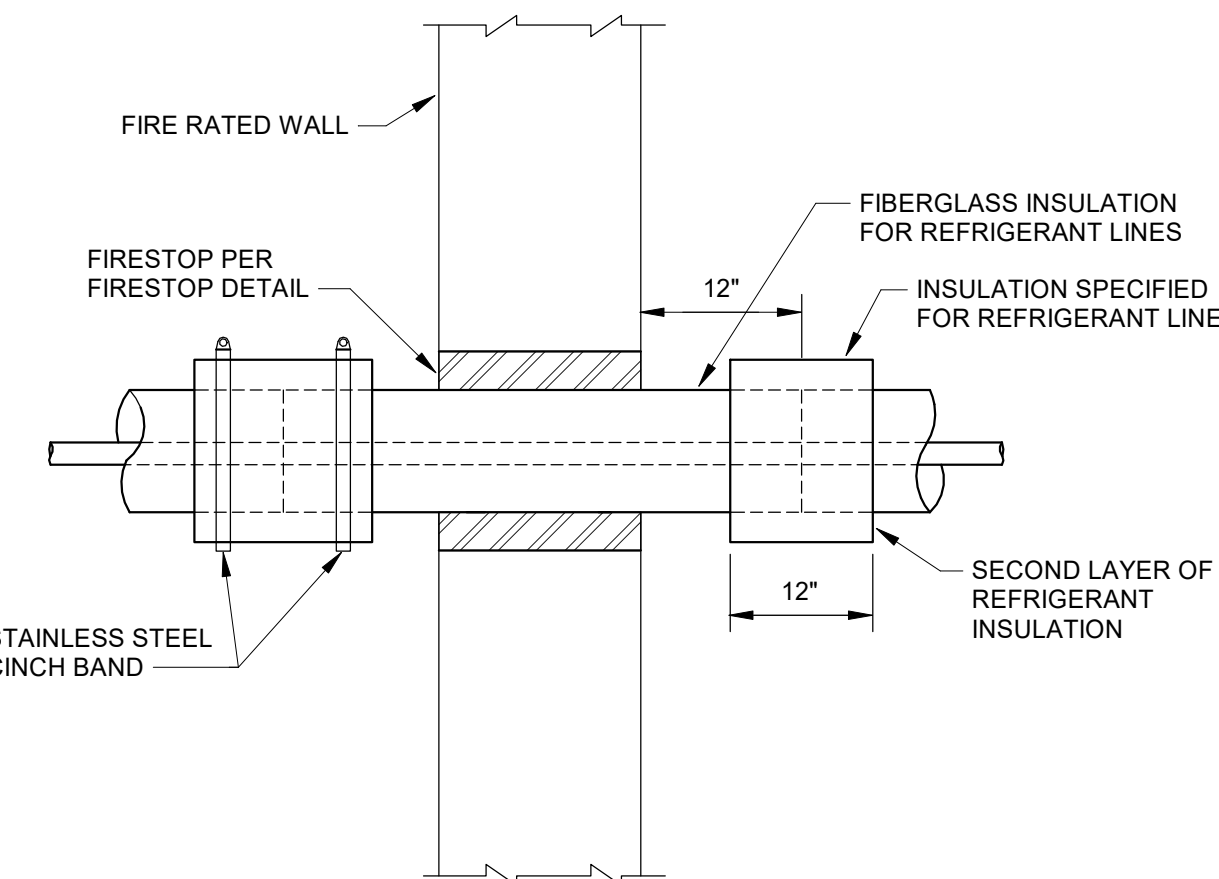


**INSULATED AND NON-INSULATED METAL
PIPE AND CONDUIT THROUGH NON-RATED
CONCRETE OR BLOCK WALL DETAIL**
3250B NOT TO SCALE 02/09



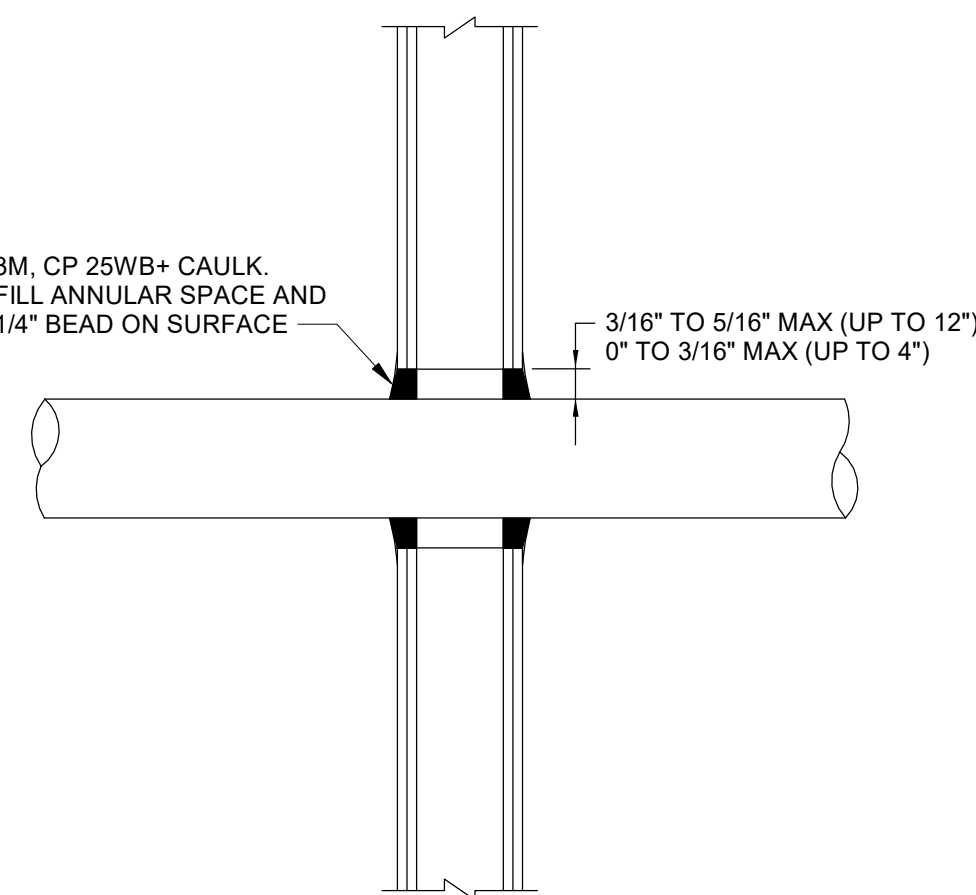
- NOTES:
1. INSTALLATION SHALL COMPLY WITH NFPA-90A, UL555, UL555S, LOCAL AUTHORITIES, AND MANUFACTURER'S REQUIREMENTS.
 2. INSTALLATION MUST INCLUDE A U.L. INSTALLATION ALLOWING OR REQUIRING ANGLES ON BOTH SIDES OF THE RATED ASSEMBLY. ANGLES ON ONE SIDE, EVEN WHERE PERMITTED BY THE TESTED ASSEMBLY, ARE NOT ALLOWED.
 3. SEAL ANGLE WITH CAULKING LISTED FOR USE WITH THE DAMPER.
 4. DAMPER SHALL BE LOCATED OUT OF AIR STREAM.
 5. PROVIDE DUCT ACCESS DOOR.
 6. PROVIDE ALL ACCESS DOORS NECESSARY FOR ACCESS TO FIRE DAMPER.
 7. ON INSULATED DUCTS, INSULATION SHALL BE INSTALLED OVER ANGLES AND SEALED TO WALL.
 8. DETAIL IS NOT INTENDED TO SHOW SPECIFIC STYLE OF DAMPER REQUIRED. SEE SPECIFICATIONS.

FIRE DAMPER DETAIL
3256C NOT TO SCALE 06/16



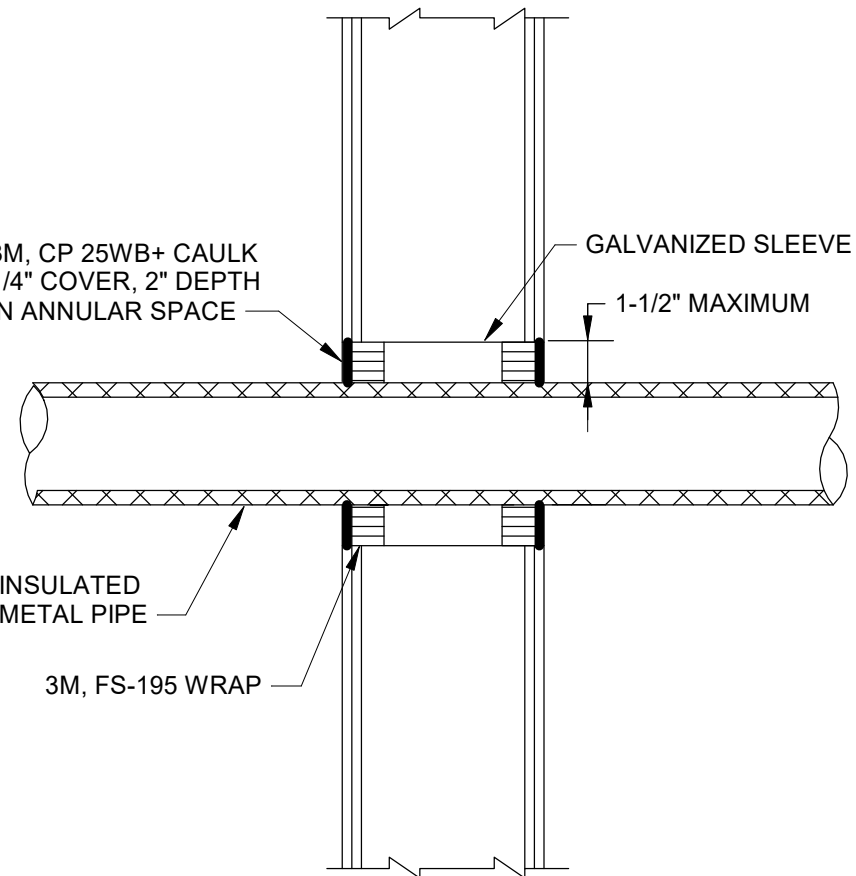
- NOTES:
1. IF UL ASSEMBLY ALLOWS REFRIGERANT PIPE INSULATION TO BE INSTALLED THROUGH THE RATED WALL, THE REFRIGERANT PIPE INSULATION SHALL BE RUN CONTINUOUSLY THROUGH THE WALL.

REFRIGERANT PIPING THROUGH RATED WALL DETAIL
3257 NOT TO SCALE 06/18



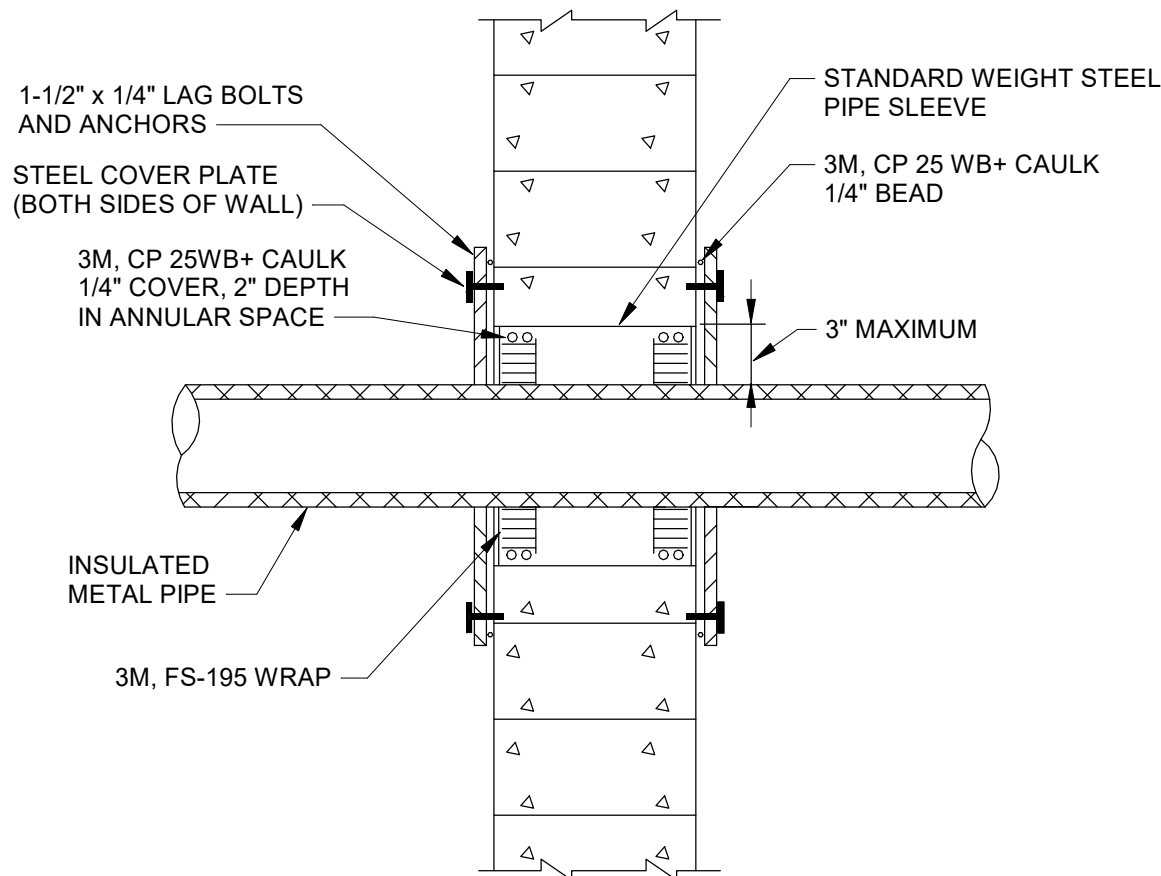
- NOTES:
1. REFER TO THE LATEST EDITION OF UL BUILDING MATERIAL DIRECTORY.
 2. WALL OPENING SHALL BE CUT NEATLY. PROVIDE A SLEEVE IF THE WALL OPENING IS NOT CUT PROPERLY.

**NON-INSULATED METAL PIPE AND MEAL CONDUIT
THROUGH PENETRATION FIRESTOP SYSTEM (UL#WL1001)
ONE AND TWO HOUR GYPSUM WALL DETAIL**
3251B NOT TO SCALE 03/03



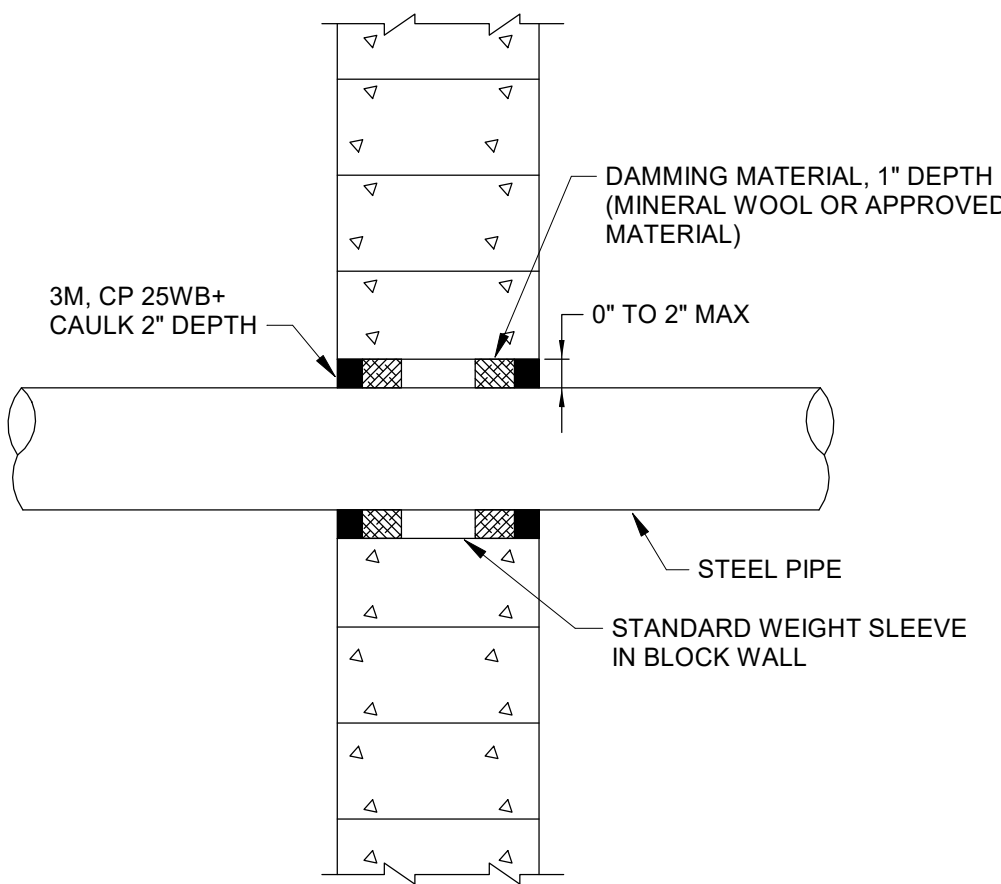
- NOTES:
1. REFER TO LATEST EDITION OF UL BUILDING MATERIALS DIRECTORY.
 2. PROVIDE ONE WRAP FOR EACH INCH OF INSULATION THICKNESS. PROVIDE ADDITIONAL WRAPS UNTIL ANNULAR SPACE IS LESS THAN 1/4".
 3. WRAP SHALL BE FRICTION FIT OR HELD IN PLACE BY 18 GAUGE STEEL WIRE

**INSULATED METAL PIPE THROUGH PENETRATION
FIRESTOP SYSTEM (UL#WL5011) ONE AND TWO
HOUR GYPSUM WALL DETAIL**
3251A NOT TO SCALE 03/03



- NOTES:
1. SEE SPECIFICATIONS FOR PIPE SLEEVES ALLOWED.
 2. PIPE SHALL BE CENTERED IN SLEEVE. DO NOT SUPPORT PIPE FROM SLEEVE.
 3. PROVIDE ONE WRAP FOR EACH INCH OF INSULATION THICKNESS. PROVIDE ADDITIONAL WRAPS UNTIL ANNULAR SPACE IS LESS THAN 1/4".
 4. WRAP SHALL BE FRICTION FIT OR HELD IN PLACE BY 18 GAUGE STEEL WIRE.
 5. REFER TO LATEST EDITION OF UL BUILDING MATERIALS DIRECTORY.
 6. STEEL COVER PLATE SHALL BE 28 GAUGE MINIMUM. BOLTS SHALL BE 6" O.C. MINIMUM. PLATE SHALL OVERLAP WALL 2" MINIMUM.
 7. STEEL PLATE NOT REQUIRED ON ONE AND TWO HOUR CONSTRUCTION.

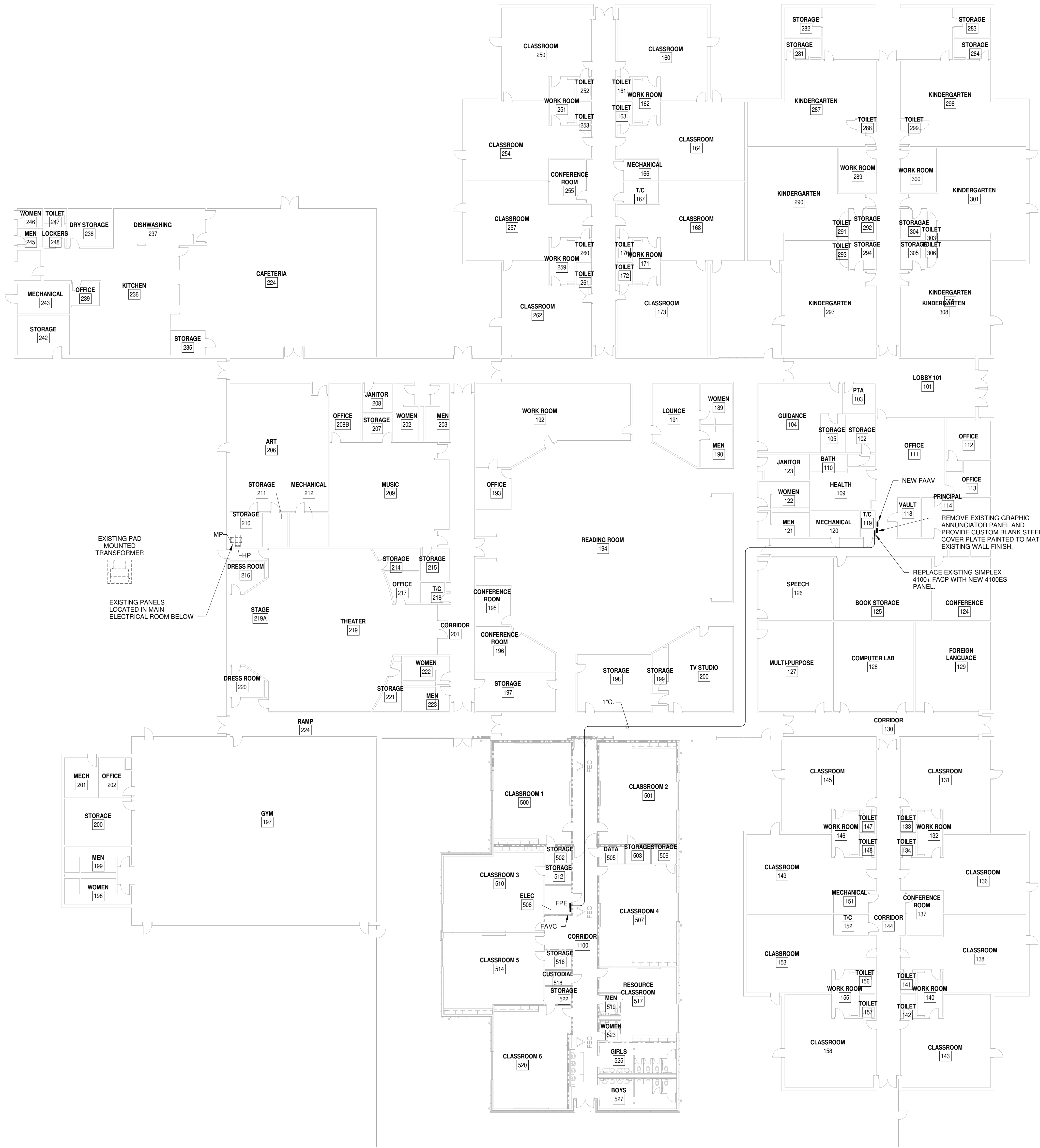
**INSULATED METAL PIPE THROUGH PENETRATION
FIRESTOP SYSTEM (UL#CAJ5001) ONE, TWO, AND
THREE HOUR CONCRETE AND BLOCK WALL DETAIL**
3252A NOT TO SCALE 11/95



- NOTES:
1. REFER TO LATEST EDITION OF UL BUILDING MATERIAL DIRECTORY.
 2. COPPER TUBING (TYPE K.L.) SIMILAR (UL-395), 3 HOUR.
 3. METAL CONDUIT SIMILAR (UL-49), 3 HOUR.

**NON-INSULATED METAL PIPE AND METAL CONDUIT THROUGH
PENETRATION FIRESTOP SYSTEM (UL#CAJ1044) ONE, TWO, AND
THREE HOUR CONCRETE AND BLOCK WALL DETAIL**
3252B NOT TO SCALE 11/95

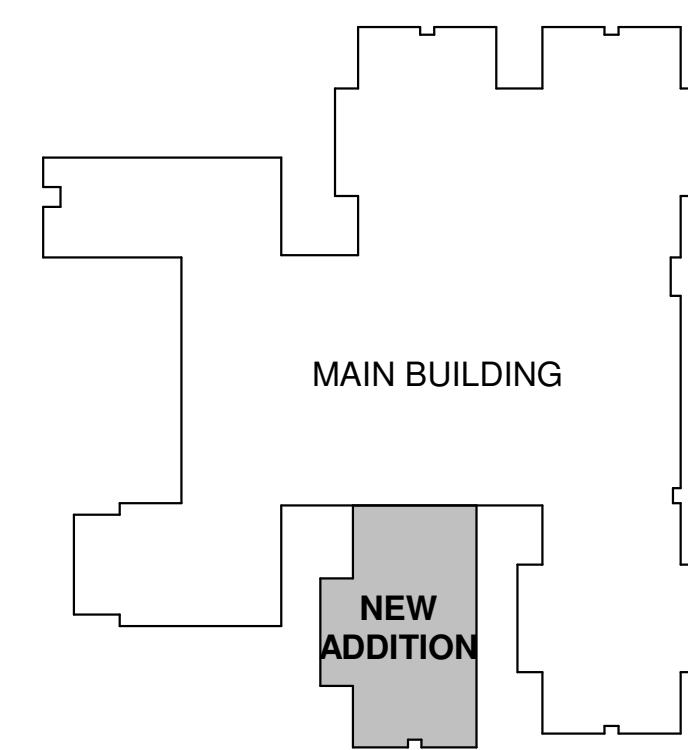
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A3
E001
OVERALL FLOOR PLAN - ELECTRICAL
1/16" = 1'-0"

0' 4' 8' 16' 32'
SCALE 1/8" = 1'-0"

KEY PLAN



100% CONSTRUCTION 12/20/2021
DOCUMENTS
PRINCIPAL IN CHARGE: BCM
PROJECT ARCHITECT: MTH, GWG, CMM
DRAWN BY:
SHEET TITLE:
OVERALL FLOOR
PLAN - ELECTRICAL

SHEET NO. PROJ. NO.
021352

E001

CONSULTANT LOGO

SEALS



SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL CLASSROOM
ADDITION AND INTERIOR RENOVATION

SPARTANBURG, SC

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D

C

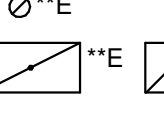
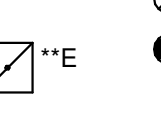
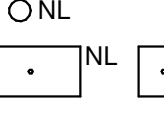

B

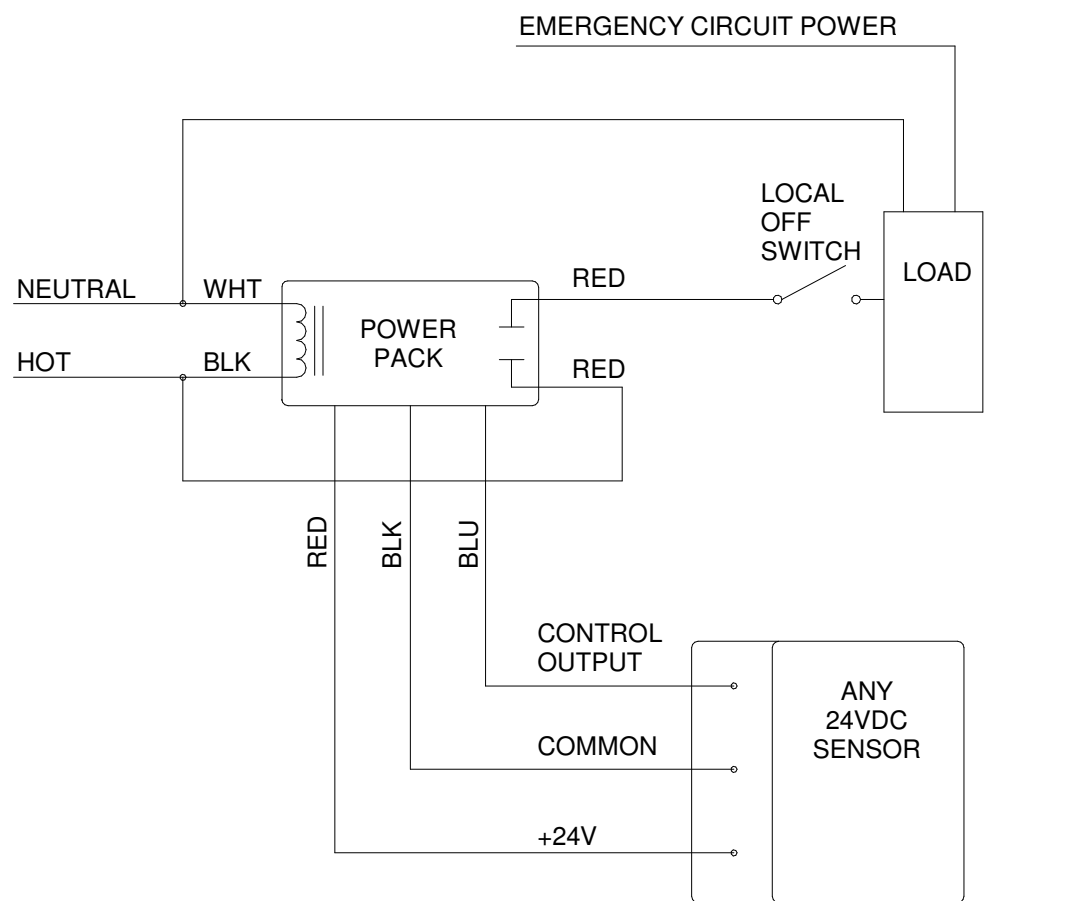
A

Panel Name: H8																							
VOLTAGE: 480/277 Wye, 3 Phase, 4 Wire													MAINS: 100 A MCB										
LOCATION: ELEC 508													AVAILABLE FAULT CURRENT: 15416 A										
SUPPLIED FROM: HP													MINIMUM SYM IC: 18kA										
PANELBOARD TYPE: NF Branch Circuit Panelboard													FEED-THRU LUGS: No										
													TRIM: Surface										
													ENCLOSURE: Indoor										
CKT	Circuit Description	#	C.	M.	PHASE	NEUT	GND	Trip	P	A (VA)	B(VA)	C(VA)	P	Trip	GND	NEUT	PHASE	M	C.	#	Circuit Description	CKT	
1	T-11	1	1"	CU	(3)#6	-	#10	45 A	3	10543	2000			3	20 A	#12	-	(3)#12	CU	3/4"	1	WH-1	2
3											7668	2000										4	
5												9708	2000									6	
7	Lighting	1	3/4"	CU	(1)#12	#12	#12	20 A	1	3032	0			1	20 A							8	
9	Lighting	1	3/4"	CU	(1)#12	#12	#12	20 A	1		2456	0		3	20 A		--	--	--	--	--	Spare	10
11	Lighting	1	3/4"	CU	(1)#12	#12	#12	20 A	1			1114	0									12	
13	Spare	--	--	--	--	--	--	20 A	1	0	0			1	20 A	--	--	--	--	--	--	Spare	14
15	Spare	--	--	--	--	--	--	20 A	1		0	0		1	20 A	--	--	--	--	--	--	Spare	16
17	Spare	--	--	--	--	--	--	20 A	1			0	0	1	20 A	--	--	--	--	--	--	Spare	18
19	Spare	--	--	--	--	--	--	20 A	1	0	0			1	20 A	--	--	--	--	--	--	Spare	20
21	Spare	--	--	--	--	--	--	20 A	1		0	0		1	20 A	--	--	--	--	--	--	Spare	22
23	Spare	--	--	--	--	--	--	20 A	1			0	0	1	20 A	--	--	--	--	--	--	Spare	24
25	Spare	--	--	--	--	--	--	20 A	1	0	0			1	20 A	--	--	--	--	--	--	Spare	26
27	Spare	--	--	--	--	--	--	20 A	1		0	0		1	20 A	--	--	--	--	--	--	Spare	28
29	Spare	--	--	--	--	--	--	20 A	1			0	0	1	20 A	--	--	--	--	--	--	Spare	30
31	Spare	--	--	--	--	--	--	20 A	1	0	0			1	20 A	--	--	--	--	--	--	Spare	32
33	Spare	--	--	--	--	--	--	20 A	1		0	0		1	20 A	--	--	--	--	--	--	Spare	34
35	Spare	--	--	--	--	--	--	20 A	1			0	0	1	20 A	--	--	--	--	--	--	Spare	36
37	Spare	--	--	--	--	--	--	20 A	1	0	0			1	20 A	--	--	--	--	--	--	Spare	38
39	Spare	--	--	--	--	--	--	20 A	1		0	0		1	20 A	--	--	--	--	--	--	Spare	40
41	Spare	--	--	--	--	--	--	20 A	1				0	0	1	20 A	--	--	--	--	--	Spare	42
Total Connected Load (VA):										15575	12124	12822											
Total Connected Amps:										57	44	47											
Load Classification										Connected Load		Demand Factor		Estimated Demand		Load Summary							
Lighting										6602 VA		125.00%		8253 VA									
Motor										1735 VA		110.03%		1909 VA		Total Conn. Load: 40521 VA							
Receptacle										23438 VA		71.33%		16719 VA		Total Est. Demand: 35627 VA							
Cooling										2496 VA		100.00%		2496 VA		Total Est. Demand Current: 43 A							
Water Heat										6000 VA		100.00%		6000 VA									
FA and Signal										250 VA		100.00%		250 VA									
Notes:																							

Panel Name: L8																	MAINS: 110 A MCB									
VOLTAGE: 120/208 Wye, 3 Phase, 4 Wire																	AVAILABLE FAULT CURRENT: 2115 A									
LOCATION: ELEC 508																	MINIMUM SYM IC: 10KA									
SUPPLIED FROM: T-11																	FEED-THRU LUGS: No									
PANELBOARD TYPE: NQ Branch Circuit Panelboard																	TRIM: Surface									
																	ENCLOSURE: Indoor									
OKT	Circuit Description	#	C.	M.	PHASE	NEUT	GND	Trip	P	A (VA)	B(VA)	C(VA)	P	Trip	GND	NEUT	PHASE	M	C.	#	Circuit Description	CKT				
1	Receptacle	1	3/4"	CU	(1)#12	#12	#12	20 A	1	1080	180			1	20 A	#12	#12	(1)#12	CU	3/4"	1	EW-C	2			
3	Receptacle	1	3/4"	CU	(1)#12	#12	#12	20 A	1		1260	180		1	20 A	#12	#12	(1)#12	CU	3/4"	1	EW-C	4			
5	Receptacle	1	3/4"	CU	(1)#12	#12	#12	20 A	1			1080	180		1	20 A	#12	#12	(1)#12	CU	3/4"	1	EW-C	6		
7	Receptacle	1	3/4"	CU	(1)#12	#12	#12	20 A	1	1440	180			1	20 A	#12	#12	(1)#12	CU	3/4"	1	EW-C	8			
9	Receptacle	1	3/4"	CU	(1)#12	#12	#12	20 A	1		1080	360		1	20 A	#12	#12	(1)#12	CU	3/4"	1	Receptacle	10			
11	Receptacle	1	3/4"	CU	(1)#10	#10	#10	20 A	1			1440	720		1	20 A	#12	#12	(1)#12	CU	3/4"	1	Receptacle	12		
13	Receptacle	1	3/4"	CU	(1)#12	#12	#12	20 A	1	1260	720			1	20 A	#12	#12	(1)#12	CU	3/4"	1	Receptacle	14			
15	Receptacle	1	3/4"	CU	(1)#10	#10	#10	20 A	1		1440	250		1	20 A	#12	#12	(1)#12	CU	3/4"	1	FPE	16			
17	Receptacle	1	3/4"	CU	(1)#12	#12	#12	20 A	1			1080	180		1	20 A	#12	#12	(1)#12	CU	3/4"	1	Receptacle	18		
19	Receptacle	1	3/4"	CU	(1)#12	#12	#12	20 A	1	900	1735			1	20 A	#10	#10	(1)#10	CU	3/4"	1	Exhaust Fans	20			
21	Receptacle	1	3/4"	CU	(1)#12	#12	#12	20 A	1			900	38		1	20 A	#12	#12	(1)#12	CU	3/4"	1	CONDENSATE PUMP	22		
23	Receptacle	1	3/4"	CU	(1)#12	#12	#12	20 A	1			1080	1248	2	15 A	#12	-	(2)#12	CU	3/4"	1	ODAC-1	24			
25	Receptacle	1	3/4"	CU	(1)#12	#12	#12	20 A	1	900	1248			1	20 A							26				
27	Receptacle	1	3/4"	CU	(1)#12	#12	#12	20 A	1			900	0		1	20 A						28				
29	Receptacle	1	3/4"	CU	(1)#10	#10	#10	20 A	1				1440	0	1	20 A						30				
31	Receptacle	1	3/4"	CU	(1)#12	#12	#12	20 A	1	900	0			1	20 A							32				
33	Receptacle	1	3/4"	CU	(1)#12	#12	#12	20 A	1		1260	0		1	20 A							34				
35	Receptacle	1	3/4"	CU	(1)#10	#10	#10	20 A	1			1260	0		1	20 A						36				
37	Spare	--	--	--	--	--	--	20 A	1	0	0			1	20 A							38				
39	Spare	--	--	--	--	--	--	20 A	1		0	0		1	20 A							40				
41	Spare	--	--	--	--	--	--	20 A	1				0	1	20 A							42				
Total Connected Load (VA):											10543	7668	9708													
Total Connected Amps:											90	64	84													
Load Classification		Connected Load				Demand Factor				Estimated Demand				Load Summary												
Motor		1735 VA				110.03%				1959 VA																
Receptacle		23438 VA				71.33%				16719 VA				Total Conn. Load: 27919 VA												
Cooling		2496 VA				100.00%				2496 VA				Total Est. Demand: 21374 VA												
FA and Signal		250 VA				100.00%				250 VA				Total Est. Demand Current: 59 A												
Notes:																										
1. Circuit breakers feeding EWC will be personnel protection GFCI type.																										

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EMERGENCY LIGHTING NOTES	
1. LIGHTING FIXTURES CONNECTED TO EMERGENCY LIGHTING CIRCUITS ARE IDENTIFIED BY THE FOLLOWING SYMBOLS AND SUFFIXES:	
	
** = FIXTURE TYPE DESIGNATION	
2. EMERGENCY FIXTURES SHALL BE FURNISHED WITH A BATTERY BACKUP AS REQUIRED BY FIXTURE MANUFACTURER. PROVIDE AN UNSWITCHED CONDUCTOR TO ALL FIXTURES WITH A BATTERY BACKUP. BATTERY BACKUPS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.	
3. NIGHT LIGHTING FIXTURES ARE IDENTIFIED BY THE FOLLOWING SYMBOLS:	
	
4. NIGHT LIGHTING FIXTURES SHALL BE CONNECTED TO UNSWITCHED CONDUCTOR TO PROVIDE CONSTANT OPERATION.	



TYPICAL OCCUPANCY SENSOR WIRING DIAGRAM

LIGHTING FIXTURE SCHEDULE							
TYPE	MANUFACTURER	CATALOG NUMBER	FINISH	LAMPS		VOLTAGE	REMARKS
				QUAN.	TYPE WATTS		
C1	HE WILLIAMS COLUMBIA LITHONIA DAYBRIGHT	HETG-S24-L50-840-A-DRV-UNV TCAT24-40LVG-EU 2VTL4-40L-ADP-LP840 2DLG-43L-840-4-D-UNV	WHITE. PAINT AFTER FAB.	-	LED 40	277	2'X4' 4000 LUMEN LED TROFFER
C2	HE WILLIAMS COLUMBIA LITHONIA DAYBRIGHT	HETG-S24-L60-840-A-DRV-UNV TCAT24-40LVG-EU 2VTL4-40L-ADP-LP840 2DLG-73L-840-4-D-UNV	WHITE. PAINT AFTER FAB.	-	LED 62	277	2'X4' 6000 LUMEN LED TROFFER
M1	INDY GOTHAM LIGHTOLIER PRESCOLITE	L6-13-35K-U-1800H-CQ-WH EVC-3514-8AR-MV-TRW P6RD-10-N-Z10-U-835-CL LF6LEDG4-6LFLED5G4-35K-WT	-	-	LED 18	UNV	6" RECESSED ROUND 1000 LUMEN OPEN LED DOWNLIGHT.
N	KENALL LUMINAIRE LED	MLH48-48-R-MW-PP-45L40K-DV VPF84-2P32T8-UNIV-CP-WHT-JB	WHITE. PAINT AFTER FAB.	-	LED 50	277	HIGH ABUSE, CEILING MOUNT WRAPAROUND.
Q	HE WILLIAMS HUBBELL	75L-4-1LEDPH50-840-A12125-UNV MPS4-40ML-FW-EU	WHITE. PAINT AFTER FAB.	-	LED 55	277	LED STRIP, LENSED.
W1	GARDCO LITHONIA HUBBELL	101L-3-35LA-NW-UNIV-SC WSTLED-1-10A700-40K-SR3-MVLOT TRP-30L-4K-035-3-U-CC	COLOR BY ARCH.	-	LED 35	UNV	LED ARCHITECTURAL CUT-OFF WALL PACK
EX1	INFINITY SURE-LITES LITHONIA DUAL LITE	EXIT/CA-SF-R-EM-WF-WH CX-6-1-R-W LES-W1R-120/277-ELN SESRW-EI	WHITE	BY MANF.	LED -	UNV	SINGLE FACED LED, EVENLY ILLUMINATED EXIT SIGN WITH EMERGENCY BATTERY BACKUP.

GENERAL LIGHTING INSTALLATION NOTES:


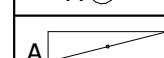
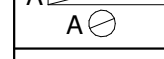
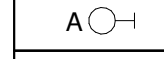



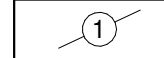
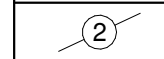
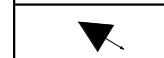
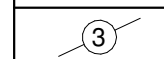
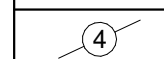
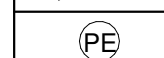
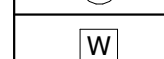


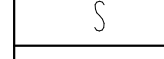
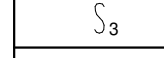
- OCCUPANCY SENSORS SHALL BE ADJUSTED AS REQUIRED FOR ROOM COVERAGE, SET TO TIME OUT AFTER 30 MINUTES AND SET TO MAXIMUM SENSITIVITY.
- COORDINATE OCCUPANCY SENSOR LOCATIONS WITH CASEWORK AND SHELVEING. OCCUPANCY SENSORS SHALL NOT BE INSTALLED OVER OBJECTS THAT INTERFERE WITH THEIR OPERATION AND RANGE. SHIFT LOCATIONS AS REQUIRED FOR PROPER OPERATION AND TO ACCESS TO THE DEVICE.
- PROVIDE MINIMUM #12 AWG CONDUCTORS FOR LIGHTING BRANCH CIRCUIT OR LARGER WHERE INDICATED.
- ALL LOW VOLTAGE WIRING SHALL BE INSTALLED IN 3/4" CONDUIT. ALL POWER PACKS SHALL BE INSTALLED IN JUNCTION BOXES. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE AN UNSWITCHED CONDUCTOR TO ALL EMERGENCY FIXTURES AS REQUIRED FOR EMERGENCY OPERATION. SEE EMERGENCY LIGHTING NOTES.
- ADJUST FIXTURE LOCATIONS AS REQUIRED FOR MECHANICAL EQUIPMENT, CHASES, OR OTHER EQUIPMENT AS REQUIRED FOR INSTALLATION.
- OCCUPANCY SENSOR, SWITCHSTATION, COVERPLATE AND TOGGLE SWITCH COLORS SHALL BE SELECTED BY ARCHITECT. ALL LOW VOLTAGE SWITCHSTATION BUTTONS SHALL BE LABELED TO INDICATE AREA OF CONTROL AND SHALL BE COORDINATED WITH ARCHITECT AND OWNER.
- TYPICAL SPACES ARE FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE CIRCUITING AND SHALL LOCATE OCCUPANCY SENSORS AND SWITCH STATIONS AS REQUIRED FOR SPACE. CORRECT AREA COVERAGE SHALL BE PROVIDED AS REQUIRED WHERE CEILING MOUNTED OCCUPANCY SENSORS ARE INDICATED.

NOTES:

- SWITCH "a" SHALL CONTROL FIXTURES ALONG FRONT TEACHING WALL. SWITCH "b" SHALL CONTROL ALL REMAINING FIXTURES IN THE SPACE.

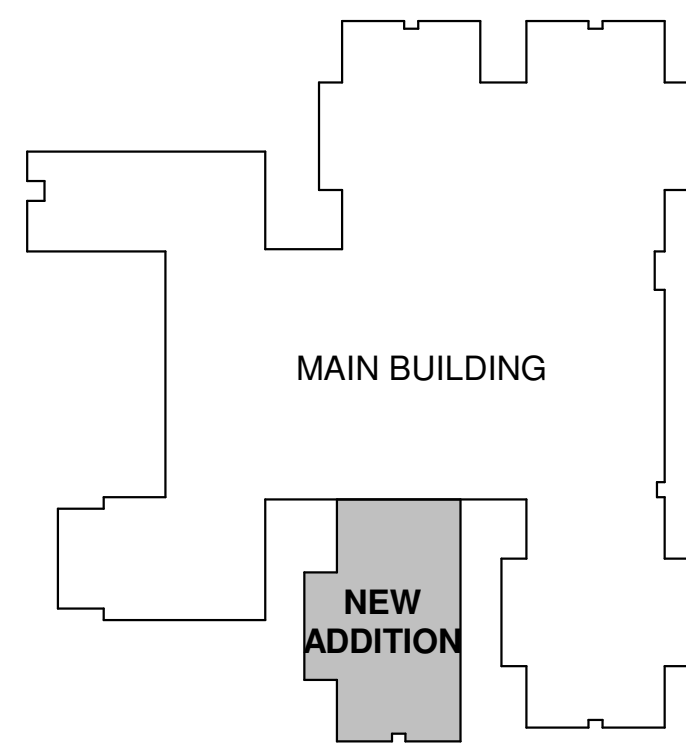
CLASSROOM SWITCH STATION DETAIL

FIRST FLOOR - LIGHTING

LIGHTING SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
	LIGHTING FIXTURE
	EMERGENCY LIGHT, SEE EMERGENCY LIGHTING NOTES, THIS SHEET.
	LIGHTING FIXTURE - WALL OR BRACKET MOUNTED
	EXIT SIGN, CEILING MOUNTED, ARROWS AS INDICATED ON PLANS
	EXIT SIGN, WALL MOUNTED, ARROWS AS INDICATED ON PLANS
	POWER PACK, WATTSTOPPER PART # B2-150
	CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER PART # DT-355
	CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER PART # DT-300
	CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER PART # DT-200
	CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER PART # WT-2200
	CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER PART # WT-2250
	PHOTOCELL, WATTSTOPPER PART # EM-24
	WALL SWITCH OCCUPANCY SENSOR, WATTSTOPPER PART # DW-100
	CLASSROOM SWITCH STATION, SEE SWITCH DETAIL ON INTERIOR LIGHTING SHEETS.
	STANDARD TOGGLE SWITCH
	THREE WAY TOGGLE SWITCH
	KEYED TOGGLE SWITCH
	0-10 VOLT DIMMER SWITCH, WATTSTOPPER PART # H4FBL3PTC

SCALE 1/8" = 1'-0"

KEY PLAN

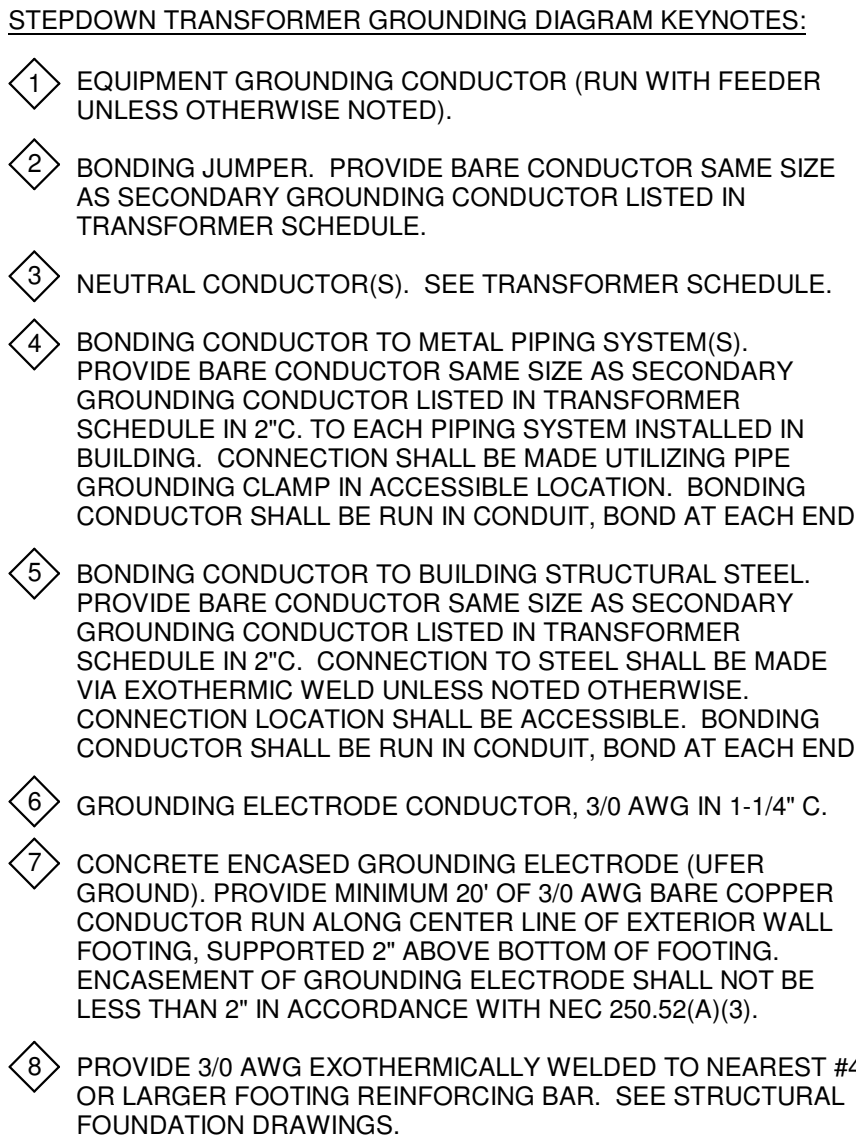


100% CONSTRUCTION DOCUMENTS
PRINCIPAL IN CHARGE: BCM
PROJECT ARCHITECT: MTH, GWG, CMM
DRAWN BY:


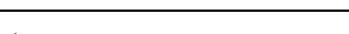


FLOOR PLAN - LIGHTING

SHEET NO. PROJ. NO. 021352

E110



D3
E200

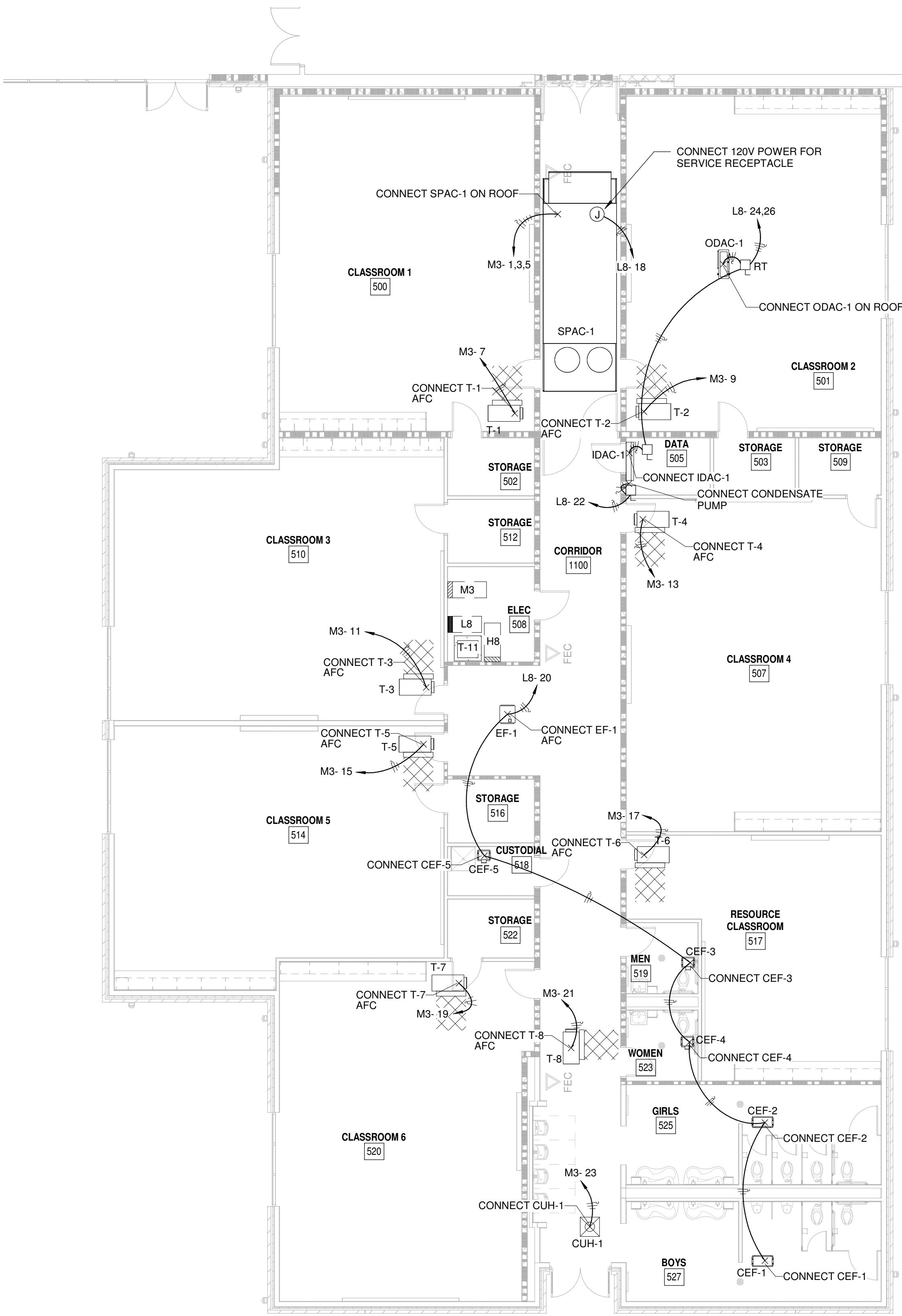
CONDUIT ROUTING LEGEND	
	CONDUIT RUN CONCEALED OVER HEAD OR VERTICALLY WITHIN WALLS.
	CONDUIT RUN BELOW GRADE OR UNDER SLABS.
	CONDUIT RUN EXPOSED.
	CONDUIT HOMERUN, ARROW HEADS INDICATE NUMBER OF CIRCUITS, SHORT TICK MARKS INDICATE PHASE CONDUCTORS, LONG TICK MARKS INDICATE NUMBER OF NEUTRAL CONDUCTORS, TICK MARK WITH HOOK INDICATES GROUNDING CONDUCTOR (THREE CIRCUIT HOMERUN RUN CONCEALED WITH DEDICATED NEUTRAL INDICATED SHOWN).

The diagram illustrates the electrical system layout across three areas: SITE, MAIN ELECTRICAL ROOM, and ELECTRICAL 508.

- SITE:** Features an **EXISTING PAD MOUNT TRANSFORMER** connected to an **EXISTING PRIMARY FEEDER** and an **EXISTING SECONDARY FEEDER**.
- MAIN ELECTRICAL ROOM:** Contains **MAIN #1** and **MAIN #2** (labeled **EXISTING MAIN SERVICE PANELS**). A **MP** (Main Panel) is connected to **MAIN #1**. A **HP** (High Panel) is connected to **MAIN #2**. Grounding instructions specify:
 - PROVIDE 2" C., (3) #1/0 AWG + #6 GROUND TO SPARE 150A 3P CIRCUIT BREAKER IN PANEL MP**
 - PROVIDE 1-1/2" C., (3) #1 AWG + #8 GROUND TO 100A 3P SPARE CIRCUIT BREAKER IN PANEL HP**
- ELECTRICAL 508:** Includes a transformer **T-11** (labeled **BOND AND GROUND STEPDOWN TRANSFORMER**), a load **L8**, and a motor **M3**. Grounding instructions specify:
 - SEE TRANSFORMER SCHEDULE, THIS SHEET, FOR SECONDARY FEEDER, TYPICAL**
 - SEE TRANSFORMER GROUNDING DETAIL, THIS SHEET, TYPICAL FOR STEPDOWN TRANSFORMERS**

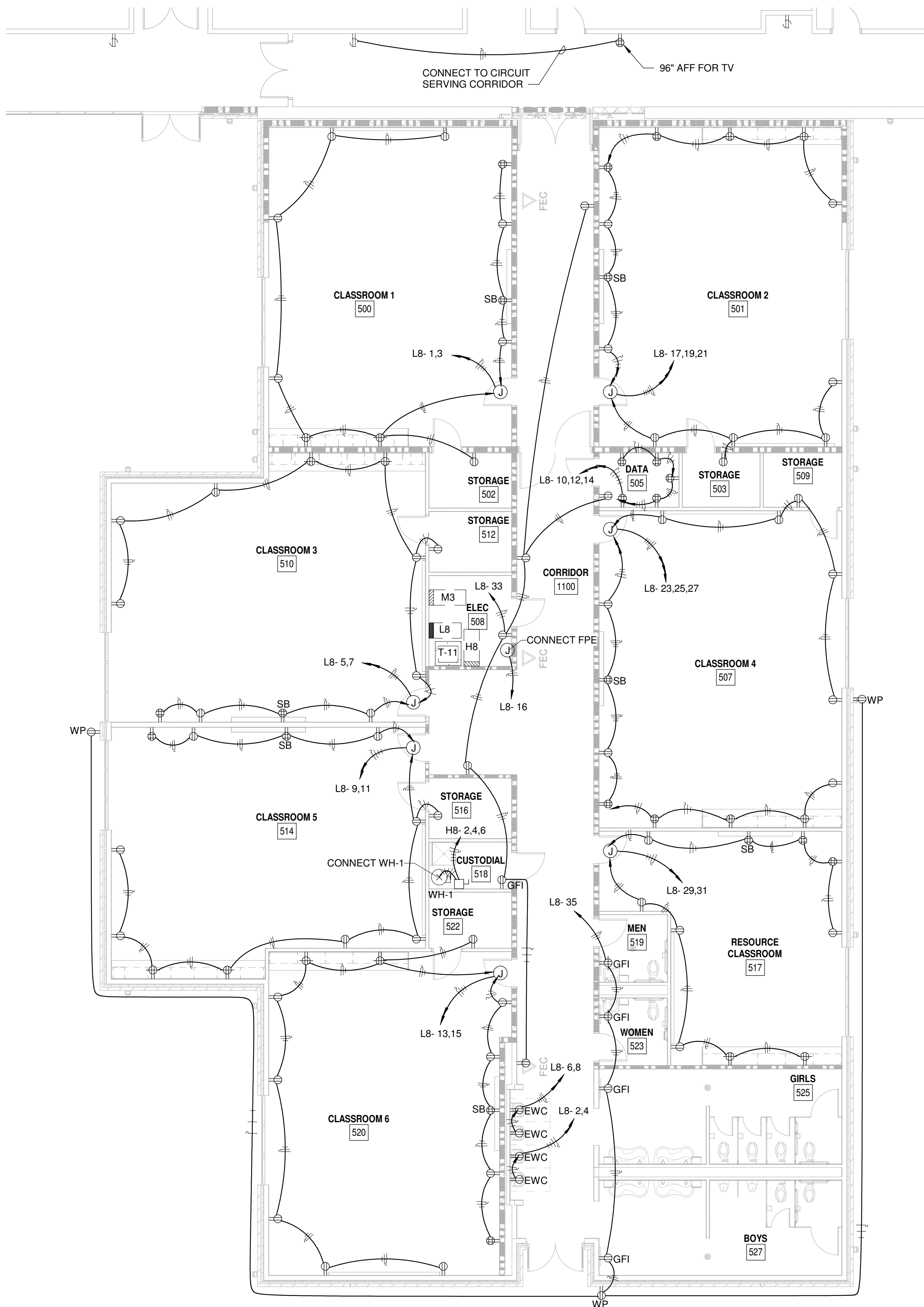
A2
E200

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FLOOR PLAN - HVAC ELECTRICAL CONNECTIONS

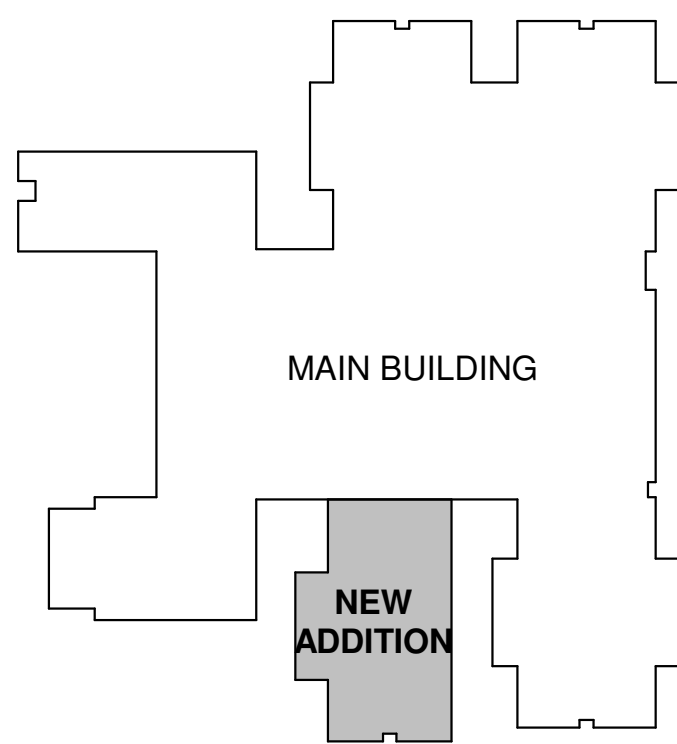
1/8" = 1'-0"



FLOOR PLAN - ELECTRICAL

1/8" = 1'-0"

KEY PLAN



100% CONSTRUCTION DOCUMENTS
PRINCIPAL IN CHARGE: BCM
PROJECT ARCHITECT: MTH, GWG, CMM
DRAWN BY:

FLOOR PLAN - ELECTRICAL

SHEET NO. PROJ. NO. 021352

E210

CANNONS ELEMENTARY SCHOOL CLASSROOM ADDITION AND INTERIOR RENOVATION

SPARTANBURG COUNTY SCHOOL DISTRICT THREE

SPARTANBURG, SC

mcmillan pazdan smith
ARCHITECTURE

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A

B

C

D

FIRE ALARM SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
■ FACP	FIRE ALARM CONTROL PANEL
■ FAVC	FIRE ALARM VOICE COMMUNICATIONS PANEL
■ FPE	FIRE ALARM POWER EXTENDER PANEL
■ FFAV	VOICE TYPE FIRE ALARM ANNUNCIATOR PANEL (60" AFF TO TOP)
□	FIRE ALARM MANUAL PULL STATION, 48" AFF TO TOP OF BOX
□ _{110c}	WALL MOUNTED FIRE ALARM SPEAKER/STROBE, 96" AFF TO TOP OF BOX. SUBSCRIPT INDICATES STROBE CANDELA RATING. NOTES 1 & 2.
□ _{110c}	WALL MOUNTED FIRE ALARM STROBE, 96" AFF TO TOP OF BOX. SUBSCRIPT INDICATES CANDELA RATING. NOTE 1.
□ _{110c}	WALL MOUNTED FIRE ALARM SPEAKER, 96" AFF TO TOP OF BOX. NOTE 2.
⊙	CEILING MOUNTED SPEAKER. NOTE 2.
⊙ _{30cd}	CEILING MOUNTED SPEAKER/STROBE. SUBSCRIPT INDICATES STROBE CANDELA RATING. NOTES 1 & 2.
⊙ ₃₀	CEILING MOUNTED STROBE. SUBSCRIPT INDICATES CANDELA RATING. NOTE 1.
⊙	SMOKE DETECTOR. NOTE 3.
⊙	DUCT DETECTOR
⊙	DUCT SMOKE DETECTOR REMOTE TEST SWITCH/ALARM INDICATOR.
⊙	MAGNETIC SMOKE DOOR HOLD OPEN DEVICE
⊙	ADDRESSABLE CONTROL MODULE (C-MODULE)
⊙	ADDRESSABLE MONITORING MODULE (M-MODULE)
SPD	SURGE PROTECTIVE DEVICE
UON	UNLESS OTHERWISE NOTED
AFF	ABOVE FINISHED FLOOR
WP	WEATHERPROOF DEVICE (PER U.L.)
◇	KEYNOTE LABEL
□	JUNCTION BOX
120V	120V BRANCH CIRCUIT HOME RUN. TIC MARKS INDICATE NUMBER OF CONDUCTORS.

SYMBOL SCHEDULE NOTES:

- STROBES SHALL BE 15cd WHERE NO CANDELA RATING SUBSCRIPT IS SHOWN.
- REFER TO ACOUSTICALLY DISTINGUISHABLE SPACES TABLE FOR SPEAKER TAP SETTINGS.
- LOCATE SMOKE DETECTOR AT FIRE ALARM PANELS WITHIN 5'-0" OF PANEL.

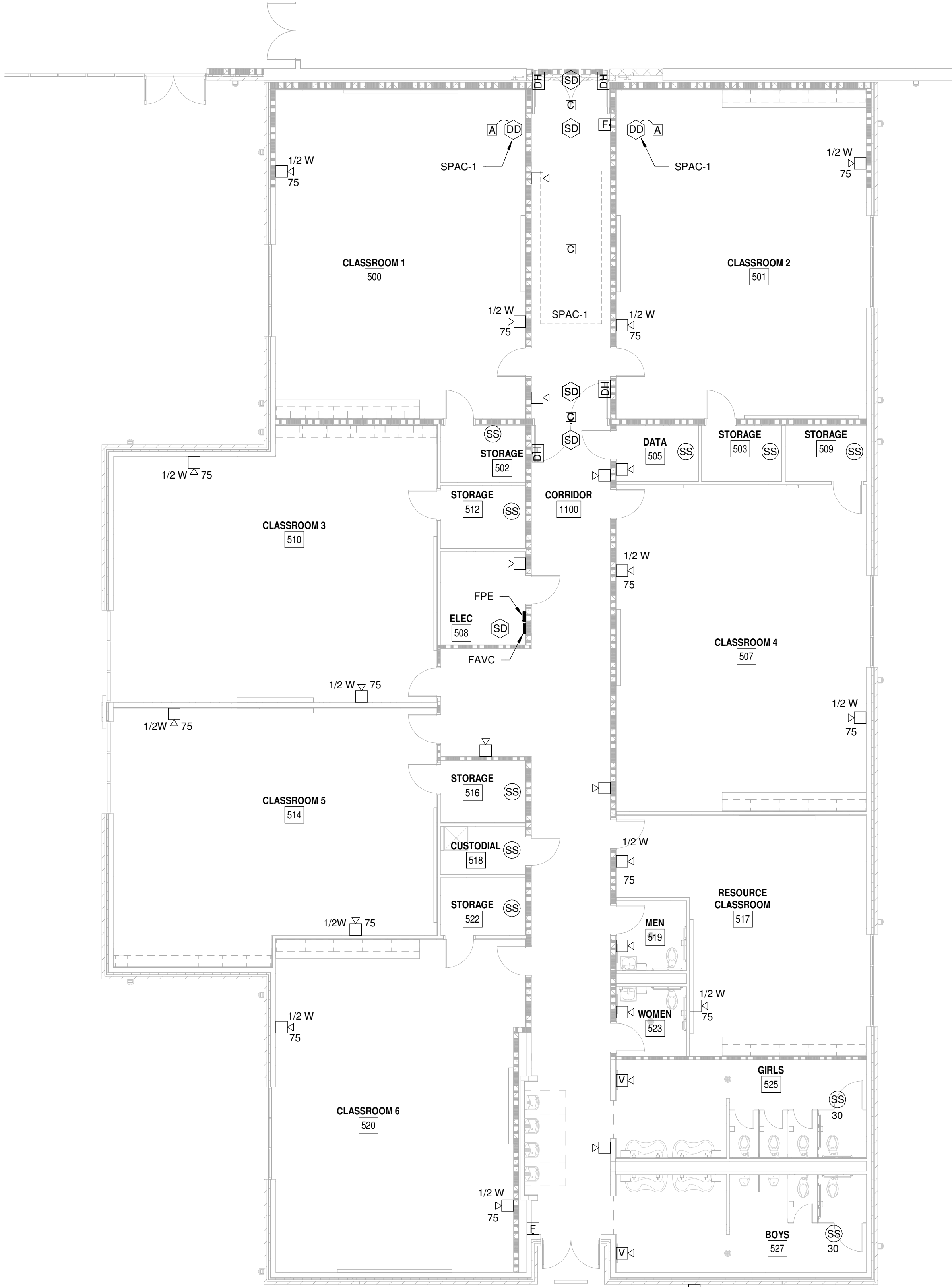
B2 FIRE ALARM SYMBOL SCHEDULE

E310 NTS

ACOUSTICALLY DISTINGUISHABLE SPACES		
AREA	VOICE INTELLIGIBILITY REQUIRED	SPEAKER TAPS (W)
SINGLE OCCUPANCY TOILETS	YES	1/4
MULTI-USE TOILETS	YES	1
EQUIPMENT ROOMS	YES	1/2
COMMON AREAS, CORRIDORS	YES	1
INSTRUCTIONAL ROOMS	YES	1/2W UNLESS OTHERWISE NOTED ON PLANS
STORAGE ROOMS & JANITOR CLOSETS	YES	1/4
EXTERIOR LOCATIONS	YES	2

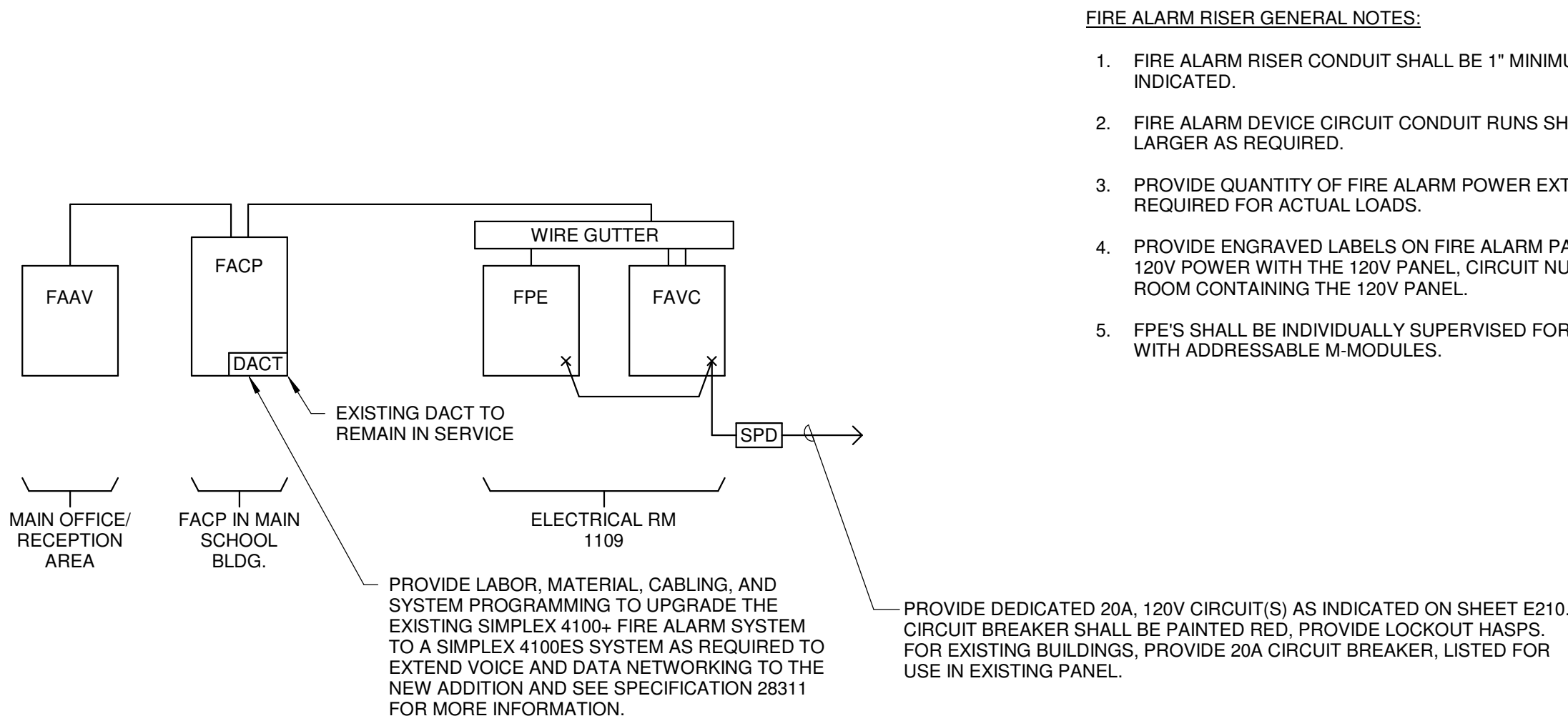
C1 ACOUSTICALLY DISTINGUISHABLE SPACES

E310 NTS



B4 FLOOR PLAN - FIRE ALARM

E310 1/8" = 1'-0"



A3 FIRE ALARM RISER DIAGRAM

E310 NTS

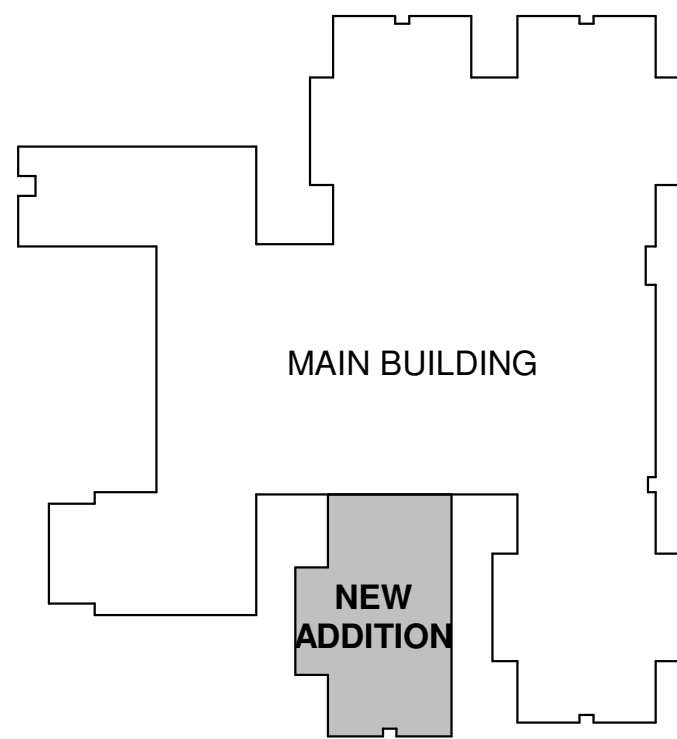
GENERAL FIRE ALARM NOTES:

- DEVICE BACK BOXES SHALL BE COMPATIBLE WITH DEVICES TO BE INSTALLED AND SHALL COMPLY WITH THE MANUFACTURER'S PUBLISHED REQUIREMENTS. DEVICES IN NEW CONSTRUCTION SHALL BE FLUSH MOUNTED. FOR EXISTING CONSTRUCTION, BOXES AND TRIM FOR SURFACE MOUNTED PULL STATIONS AND NOTIFICATION APPLIANCES SHALL BE SURFACE STYLE FROM THE MANUFACTURER.
- ADJUST FINAL LOCATIONS OF NOTIFICATION APPLIANCES AS REQUIRED TO AVOID CONFLICTS WITH WINDOWS, PROJECTOR SCREENS, MARKER BOARDS, CASEWORK, ETC.
- LABEL HVAC UNITS IN TEXT MESSAGE DISPLAYS PER ACTUAL UNIT LABELS (FIELD VERIFY).
- FIRE ALARM CONDUITS IN EXPOSED CEILING AREAS LOCATED IN FINISHED SPACES SHALL BE PAINTED TO MATCH SURFACE CONDUIT IS ATTACHED TO.
- SMOKE DETECTORS AT SMOKE DOORS SHALL BE LOCATED IN STRICT ACCORDANCE WITH NFPA-72, FIGURE 17.7.5.6.5.1(A)-DETAIL F. CONNECT ALL DOOR HOLDERS THROUGH LOCAL CONTROL MODULE. PROGRAM DOOR RELEASE BASED ON ALARM BY THE SMOKE DETECTORS ON EITHER SIDE OF THE DOORWAY.
- SMOKE DETECTOR LOCATIONS SHALL BE ADJUSTED AS REQUIRED SUCH THAT THEY ARE NOT LOCATED WITHIN 3'-0" OF ANY HVAC SUPPLY OR RETURN AIR GRILLE.
- MOUNT MANUAL PULL STATIONS WITHIN 5'-0" OF EXIT DOORWAYS.
- PROVIDE DUCT SMOKE DETECTORS WHERE SHOWN ON THE HVAC DRAWINGS. PROVIDE A REMOTE ALARM INDICATOR WITH TEST SWITCH FOR ALL DUCT DETECTORS THAT ARE CONCEALED ABOVE FINISHED CEILINGS. CEILING-MOUNT ALL ALARM INDICATORS DIRECTLY BELOW ALL CONCEALED DETECTOR LOCATIONS. EXCEPT IN AREAS WITH CEILING HEIGHTS ABOVE 12'. WALL MOUNT TEST STATIONS 54" AFF TO TOP OF BOX. PROVIDE TYPED STICK-ON LABELS ON ALL ALARM INDICATORS WITH HVAC UNIT DESIGNATIONS.
- LOCATE C-MODULES AND M-MODULES WITHIN 18" OF THE EQUIPMENT BEING CONTROLLED OR MONITORED.
- PROVIDE TILE BRIDGE AND ADJUSTABLE BACKBOX FOR CEILING MOUNTED DEVICES.










D1 GENERAL FIRE ALARM NOTES

E310 NTS

KEY PLAN



0' 4' 8' 16' 32'
SCALE 1/8" = 1'-0"

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	CARD READER (SEE DETAILS FOR CONDUIT AND BACK BOX REQUIREMENTS)
	INTRUSION KEYPAD (SEE DETAILS FOR CONDUIT AND BACK BOX REQUIREMENTS)
	INTRUSION WALL MOUNT MOTION DETECTOR (SEE DETAILS FOR CONDUIT AND BACK BOX REQUIREMENTS)
	MOTION DETECTOR (SEE DETAILS FOR CONDUIT AND BACK BOX REQUIREMENTS)
	ELECTRIFIED STRIKE (SEE DETAILS FOR CONDUIT AND BACK BOX REQUIREMENTS)
	CEILING CAMERA (SEE DETAILS FOR CONDUIT AND BACK BOX REQUIREMENTS)
	180° WALL CAMERA (SEE DETAILS FOR CONDUIT AND BACK BOX REQUIREMENTS)
	360° CAMERA (SEE DETAILS FOR CONDUIT AND BACK BOX REQUIREMENTS)
	WALL CAMERA (SEE DETAILS FOR CONDUIT AND BACK BOX REQUIREMENTS)

GENERAL ANNOTATION LEGEND	
SYMBOL	DESCRIPTION
MTR	MAIN TELECOMMUNICATIONS ROOM
TR	TELECOMMUNICATION ROOM
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AC	ABOVE COUNTER
EC	ELECTRICAL CONTRACTOR
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF

TECHNOLOGY SYMBOLS LEGEND

TECHNOLOGY - GENERAL NOTES

- ## TECHNOLOGY CONDUIT AND INFRASTRUCTURE NOTES

- ## TECHNOLOGY CONDUIT AND INFRASTRUCTURE NOTES
1. ROUTE CONDUIT CONCEALED EITHER OVERHEAD OR WITHIN WALLS. CONDUITS SHALL NOT BE ROUTED BELOW THE FIRST FLOOR SLAB UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS.
 2. UNLESS SHOWN OTHERWISE, ALL PATHWAYS TO OUTLETS SHOWN ON PLANS SHALL BE 1" EMPTY CONDUIT WITH PULL STRINGS.
 3. DATA AND PA CONDUIT PATHWAYS SHALL BE CONTINUOUS FROM OUTLET TO CABLE TRAY AND CONTAIN NO MORE THAN TWO 90° BENDS BETWEEN PULL POINTS. PATHWAYS LESS THAN 100 FT. IN LENGTH SHALL NOT CONTAIN JUNCTION OR PULL BOXES. PATHWAYS GREATER THAN 100 FT. WILL REQUIRE A PULL BOX EVERY 100 FT. INSTALLED PULL BOXES SHALL NOT CHANGE THE DIRECTION OR ANGLE OF THE CONDUIT PATHWAY. EACH ROOM SHALL HAVE INDIVIDUAL PATHWAYS DIRECTLY TO THE CORRIDOR CABLE TRAY. INSTALL PULL STRINGS IN ALL CONDUIT PATHWAYS.
 4. TELECOMMUNICATION CONDUITS SHALL HAVE PLASTIC BUSHINGS INSTALLED AND SHALL BE SECURED TO THE TRAY WITH CLIPS PROVIDED BY THE TRAY MANUFACTURER.
 5. FIRESTOPPING CONTRACTOR SHALL FURNISH AND INSTALL UL LISTED FIRE STOPPING SYSTEM AT EACH CONDUIT FIRE WALL PENETRATION AS PER THE ARCHITECTURAL FIRE STOPPING SPECIFICATION.
 6. FURNISH AND INSTALL 4" STI EZ PATH SERIES 444-FIRE RATED PATHWAYS AT EACH CABLE TRAY FIRE WALL PENETRATION. DO NOT PENETRATE RATED WALLS WITH TRAY. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS FOR TYPE OF WALL AND RATING UNLESS NOTED OTHERWISE. (TYPICAL AT ALL FIRE WALLS).
 7. (NOT USED).
 8. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL 1/4" SLEEVES AS SHOWN ON PLANS WHERE CABLE TRAY PENETRATES NON RATED WALLS AND WHERE CABLE TRAY TRAVERSES HARD CEILING AREAS IN THE CORRIDORS.
 9. CAREFULLY COORDINATE LOCATION OF CABLE TRAY WITH MECHANICAL, PLUMBING, AND SPRINKLER CONTRACTORS. CEILING SPACE ABOVE CORRIDORS WILL BE EXTREMELY CONGESTED. MATERIAL AND LABOR REQUIRED TO RELOCATE CABLETRAY DUE TO CONFLICTS WITH OTHER TRADES WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. A 12" CLEARANCE SHALL BE PROVIDED FOR ACCESS TO ONE SIDE OF THE CABLE TRAY. ABOVE THE TRAY AND FOR THE LENGTH OF THE RUN.
 10. CABLE TRAY SHALL BE SHAPED WIRE BASKET CABLE TRAY FROM WBT. TRAY SHALL BE 12" WIDE BY 4" DEEP MODEL #WB14X18S. MOUNT IN CORRIDOR CEILING SPACE 6" ABOVE CEILING, TO ONE SIDE, DO NOT LOCATE IN CENTER OF SPACE. ROUND WIRE TRAY SHALL NOT BE SUBSTITUTED.
 11. (NOT USED).
 12. THE CABLE TRAY IS FOR THE OWNERS USE AND SHALL NOT BE USED THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE INDICATED ELSEWHERE ON THESE DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CABLETRAY BASKET FOR ALL LOW VOLTAGE SYSTEMS.
 13. CABLE TRAY SHALL BE INSTALLED 6" FROM THE WALL AND SHALL BE SUPPORTED WITH TRAPEZE HANGARS FROM THE CABLE TRAY MANUFACTURER OR APPROVED BY THE SEISMIC ENGINEER AT MANUFACTURER'S RECOMMENDED SPACING.
 14. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL WATERFALL DEVICES EQUAL TO CHATSWOOTH 34747 AT EACH CABLE END POINT AND ON THE END OF UPPER TRAY WHERE TRAYS OF DIFFERENT ELEVATIONS MEET.
 15. CABLE TRAY SHALL BE BONDED TO THE SERVICE ENTRANCE BONDING SYSTEM. BONDING JUMPER SHALL BE INSTALLED AROUND ALL DISCONTINUITIES IN THE TRAY.
 16. COMMUNICATIONS OUTLETS SHALL HAVE A 4" SQUARE BOX WITH SINGLE GANG TRIM RING. BLANK METAL PLATE AND 1" EMPTY CONDUIT UNLESS OTHERWISE INDICATED. ROUTE OVERHEAD, MOUNT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. SEE SPECIFICATIONS. BLANK COVERS SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR ON ALL OPEN BOXES PRIOR TO FINAL INSPECTION.
 17. FOR EXTERIOR WALL MOUNTED CAMERAS AND WIRELESS ACCESS POINTS, THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL SINGLE GANG WEATHER PROOF BOXES FLUSH WITH FINIAL EXTERIOR WALL WITH BLANK COVER PLATE, AND 1" EMPTY CONDUIT TO CABLE TRAY. TRAY OVERHEAD, COORDINATE LOCATION SO THE BOX AND CORRESPONDING DEVICE ARE NOT LOCATED IN A BRICK REVEAL OR BLOCKED BY A DOWNSPOUT. COORDINATE HEIGHTS AND LOCATIONS OF EXTERIOR ITEMS (CAMERAS, SPEAKERS, ETC) WITH ARCHITECT.
 18. ELECTRICAL CONTRACTOR SHALL INSTALL 96" PLYWOOD SHEETS TO COMPLETELY COVER INDICATED WALLS 20" OFF FLOOR IN EACH TRIM ROOM. PLYS FOR WALL SHALL BE 3/4" THICK, AC GRADE AND PAINTED WITH TWO COATS OF FIRE RETARDANT PAINT ON ALL SIDES.
 19. FOR CEILING MOUNTED CAMERAS, ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL 4X4 BOX WITH 3/4" KNOCKOUTS, SINGLE GANG MUD RING AND BLANK COVER PLATE. MOUNT BOX IN CENTER OF THE TILE FLUSH WITH BOTTOM OF THE CEILING TILE ON CADDY #512 TEE-BAR HANGER. CUT CEILING TILES TIGHT TO MUD RING, NOT 4X4 BOX.
 20. FOR CEILING MOUNTED WIRELESS ACCESS POINTS, ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL 4X4 BOX WITH 1" KNOCKOUTS, SINGLE GANG MUD RING AND BLANK COVER PLATE. MOUNT BOX IN THE CENTER OF THE CEILING TILE ON CADDY #512 TEE-BAR HANGER. CUT CEILING TILES TIGHT TO MUD RING, NOT 4X4 BOX.
 21. FOR EXTERIOR WALL MOUNTED PA SPEAKERS, THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL BOSEN BB9FM BACK BOX WITH FINIAL EXTERIOR WALL, AND 3/4" EMPTY CONDUIT DIRECT TO CABLE TRAY. TRAY OVERHEAD, COORDINATE LOCATION SO THE BOX AND CORRESPONDING DEVICE ARE NOT LOCATED IN A BRICK REVEAL OR BLOCKED BY A DOWNSPOUT. COORDINATE HEIGHTS AND LOCATIONS OF EXTERIOR ITEMS (CAMERAS, SPEAKERS, ETC.) WITH ARCHITECT.

100% CONSTRUCTION DOCUMENTS 12/20/21

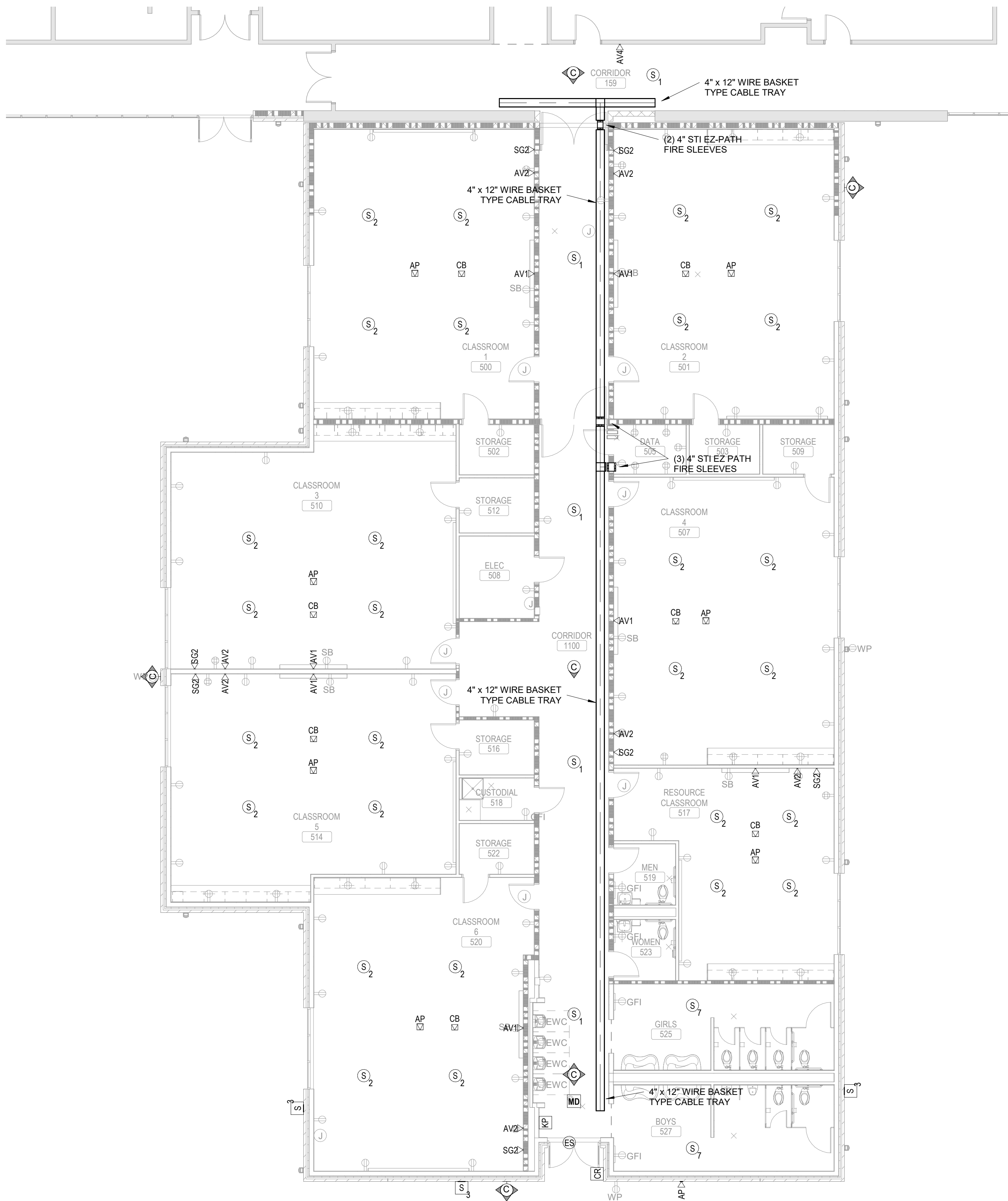
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PROJECT ARCHITECT: DLL
DRAWN BY: AL, DC

SHEET NO. PROJ. NO.
021352



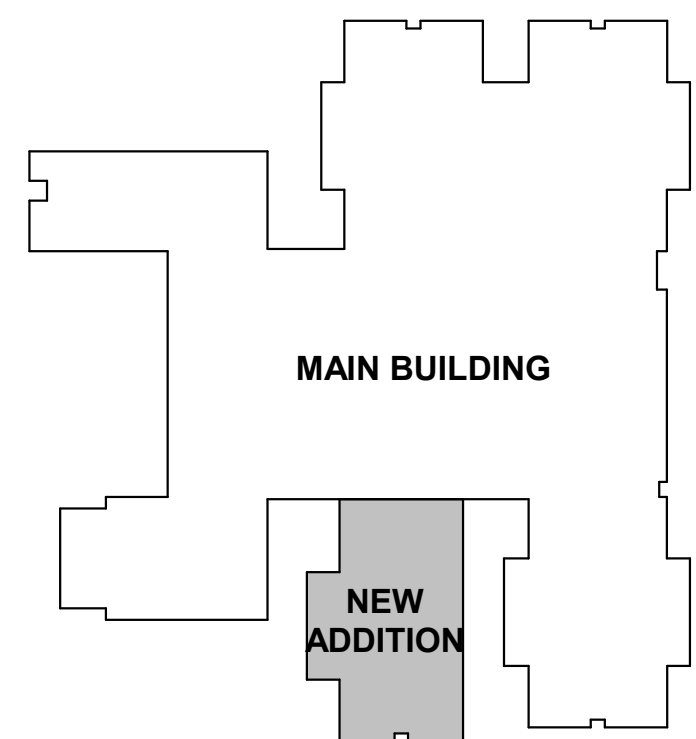
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2 FIRST FLOOR - DATA 505
SCALE: 1/2" = 1'-0"



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

KEY PLAN



100% CONSTRUCTION DOCUMENTS 12/20/21
PRINCIPAL IN CHARGE: D.L.
PROJECT ARCHITECT: D.L.
DRAWN BY: A.L. DC
SHEET TITLE:
TECHNOLOGY -
FLOOR PLAN
SHEET NO. PROJ. NO. 021352

T101

SPARTANBURG COUNTY SCHOOL DISTRICT THREE
CANNONS ELEMENTARY SCHOOL
CLASSROOM ADDITION AND
INTERIOR RENOVATIONS
SPARTANBURG, SC

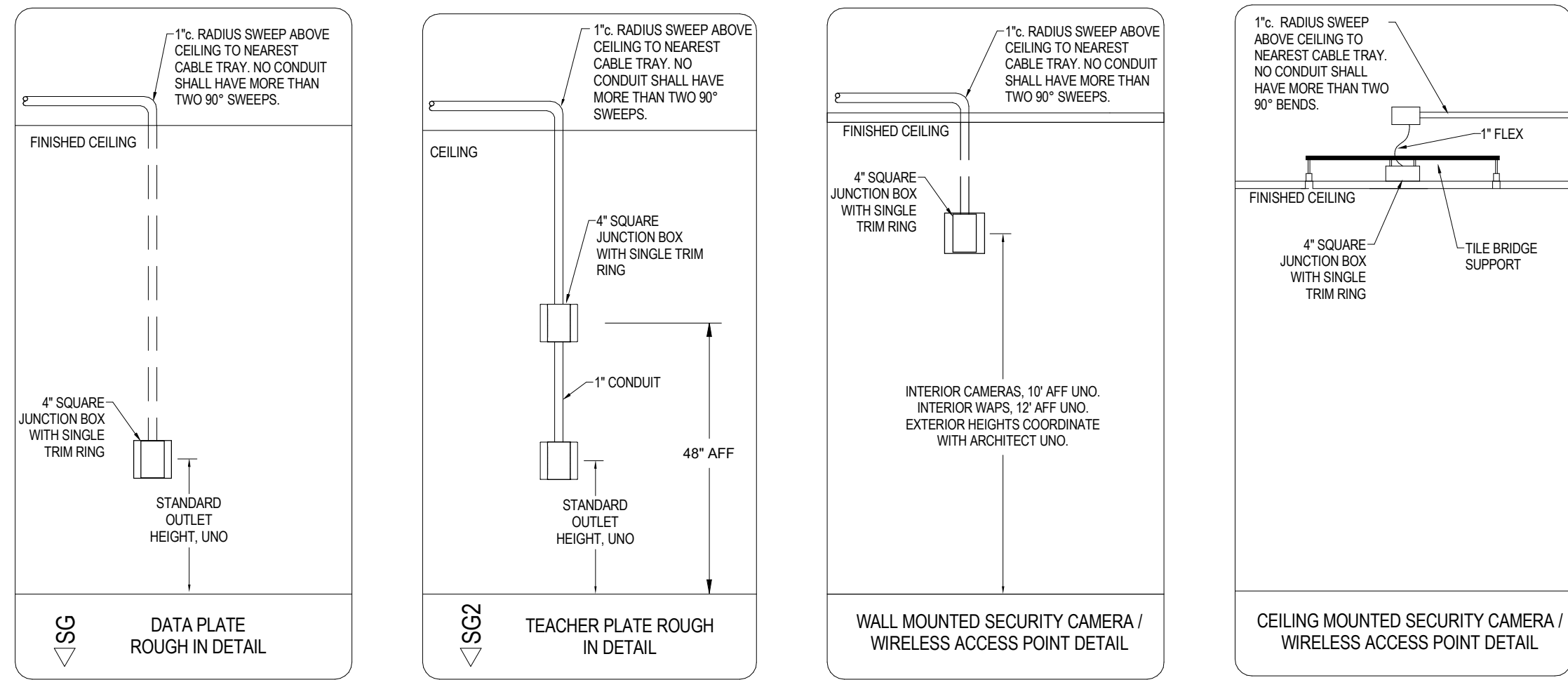
SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

CONSULTANT LOGO
dp design phase
technology consultants
'from concept through completion'
Tony Mangum RCDD, CTS-D
Principal Consultant
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SEALS

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D

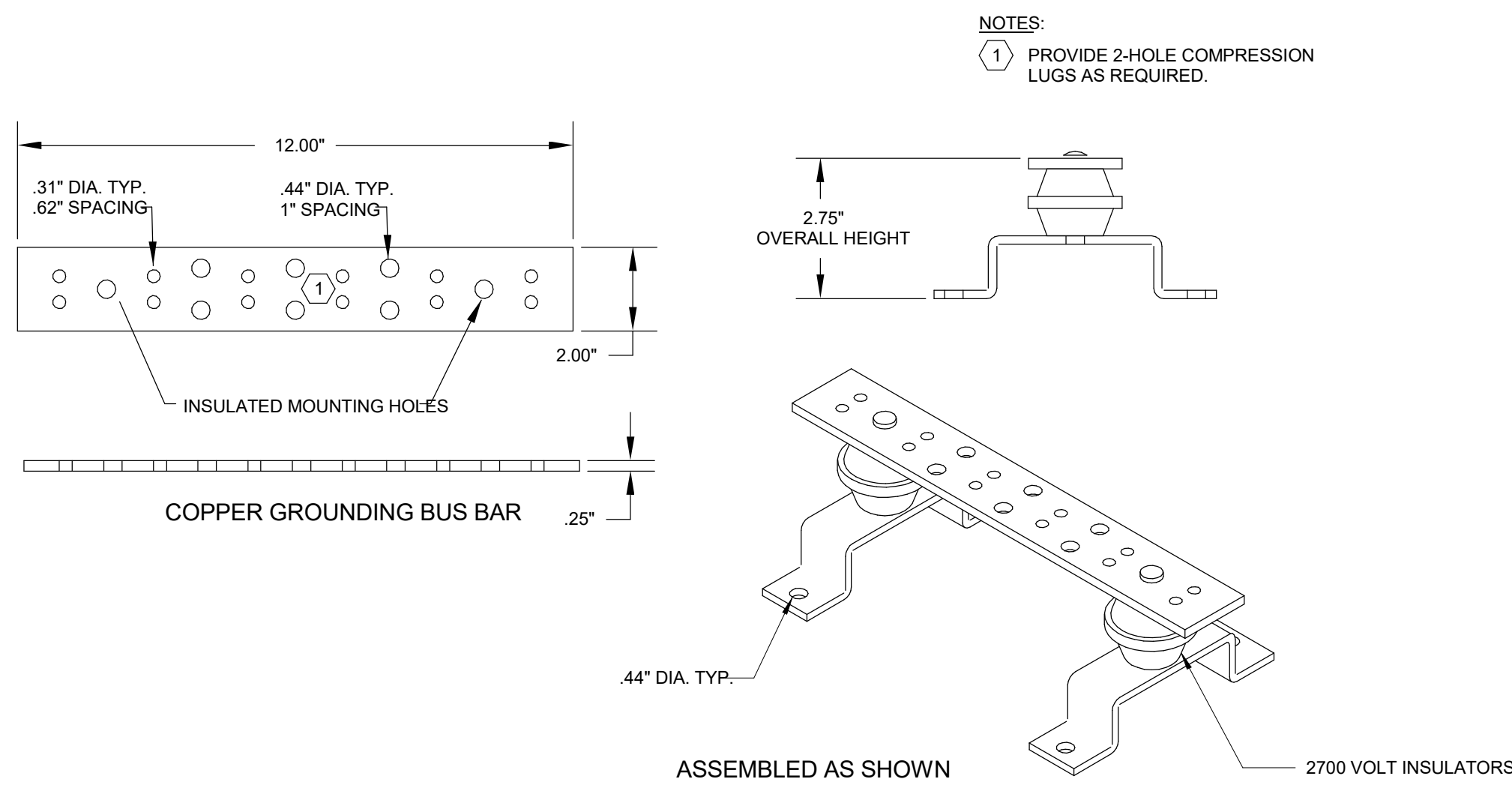


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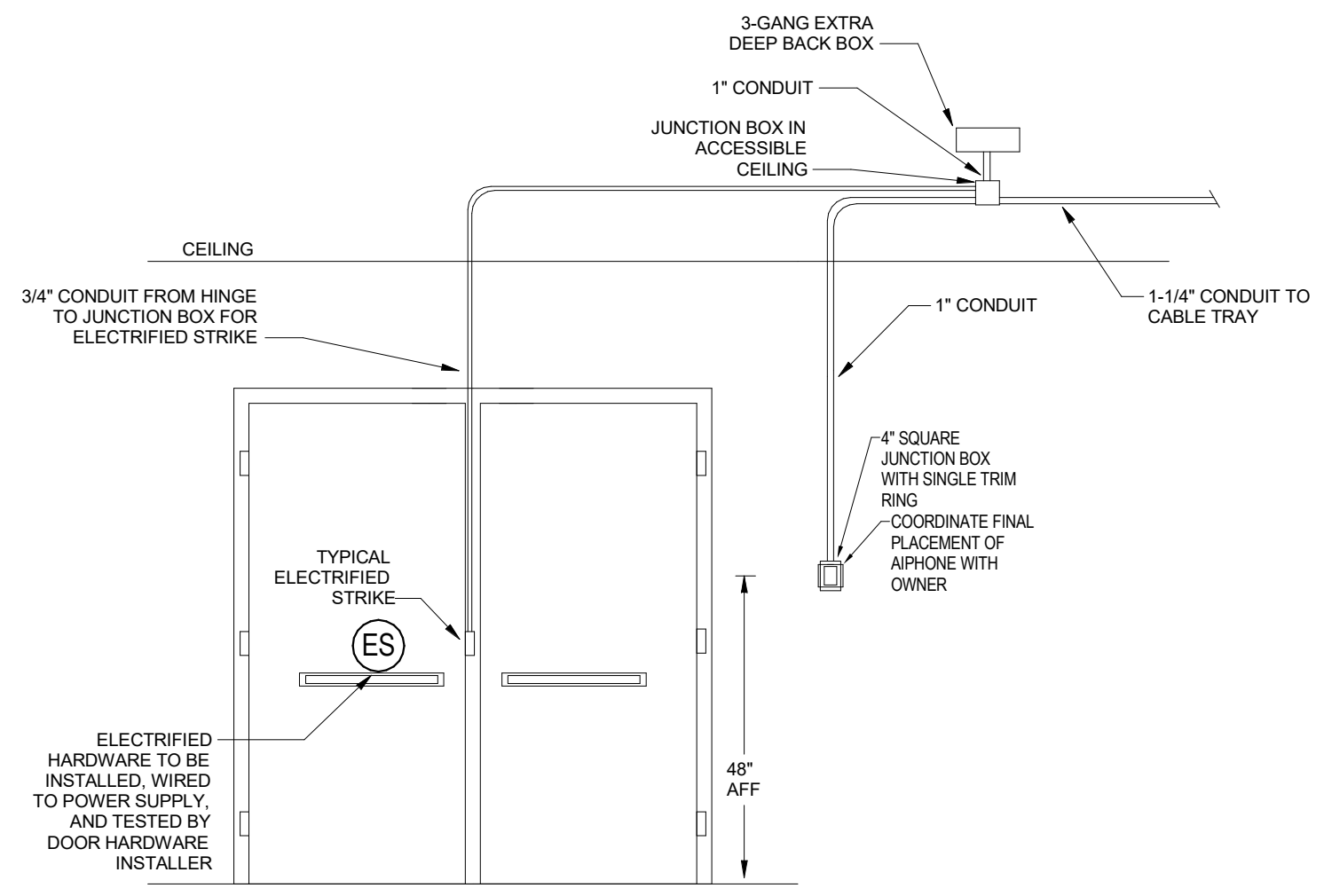
AP

1 DATA ROUGH-IN DETAILS
SCALE: NS

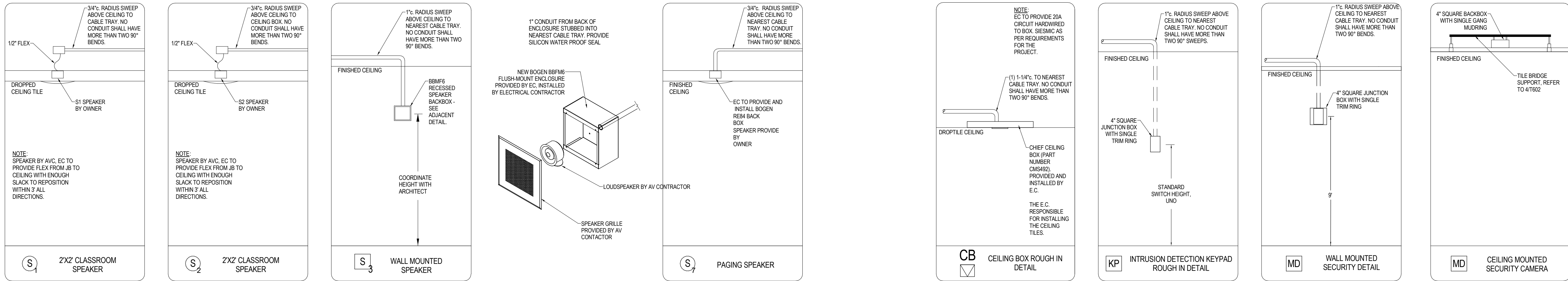
2 DETAIL - GROUND BUS BAR "TGB"
SCALE: NTS



3 TYPICAL ELR DOUBLE DOOR ROUGH-IN DETAIL
SCALE: NS

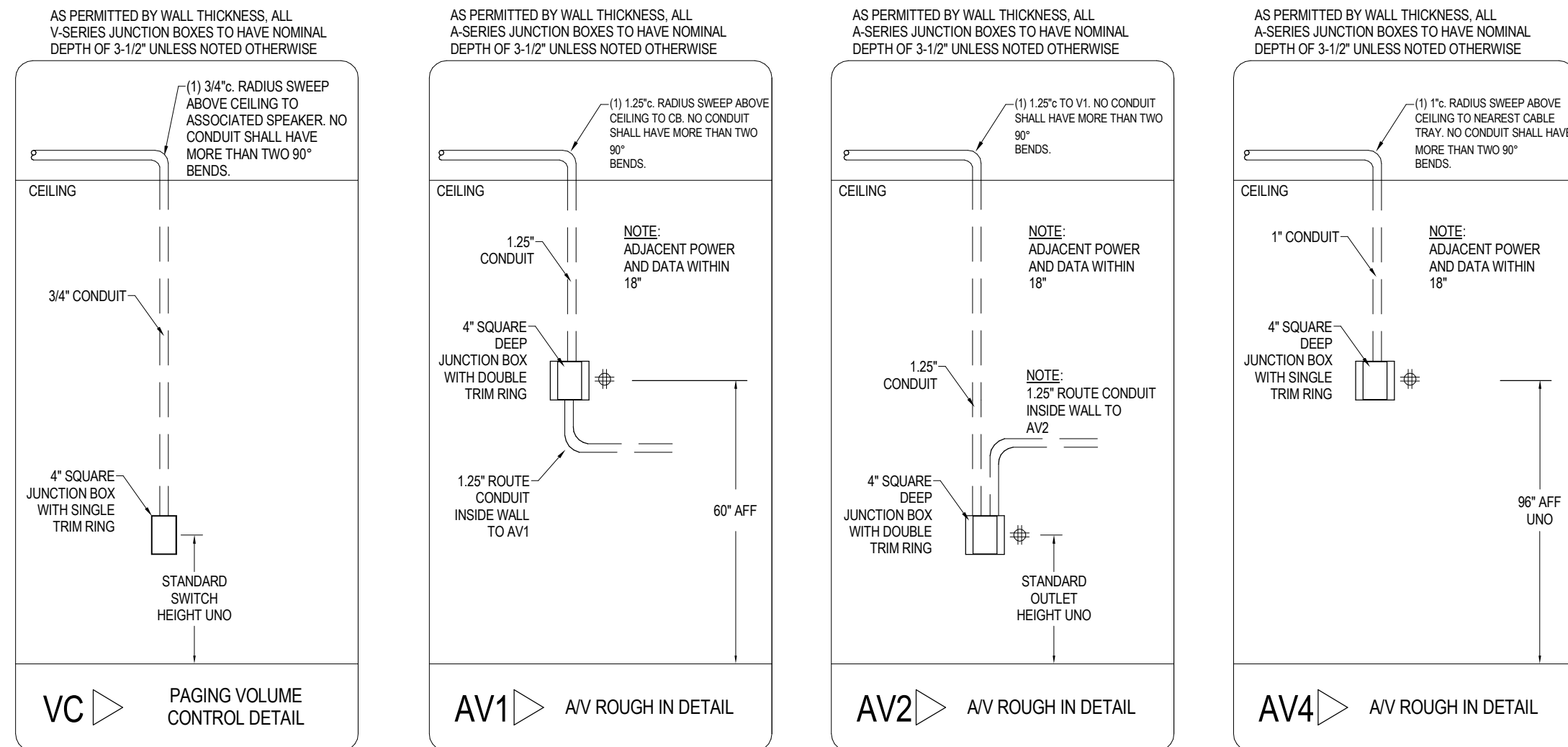


C



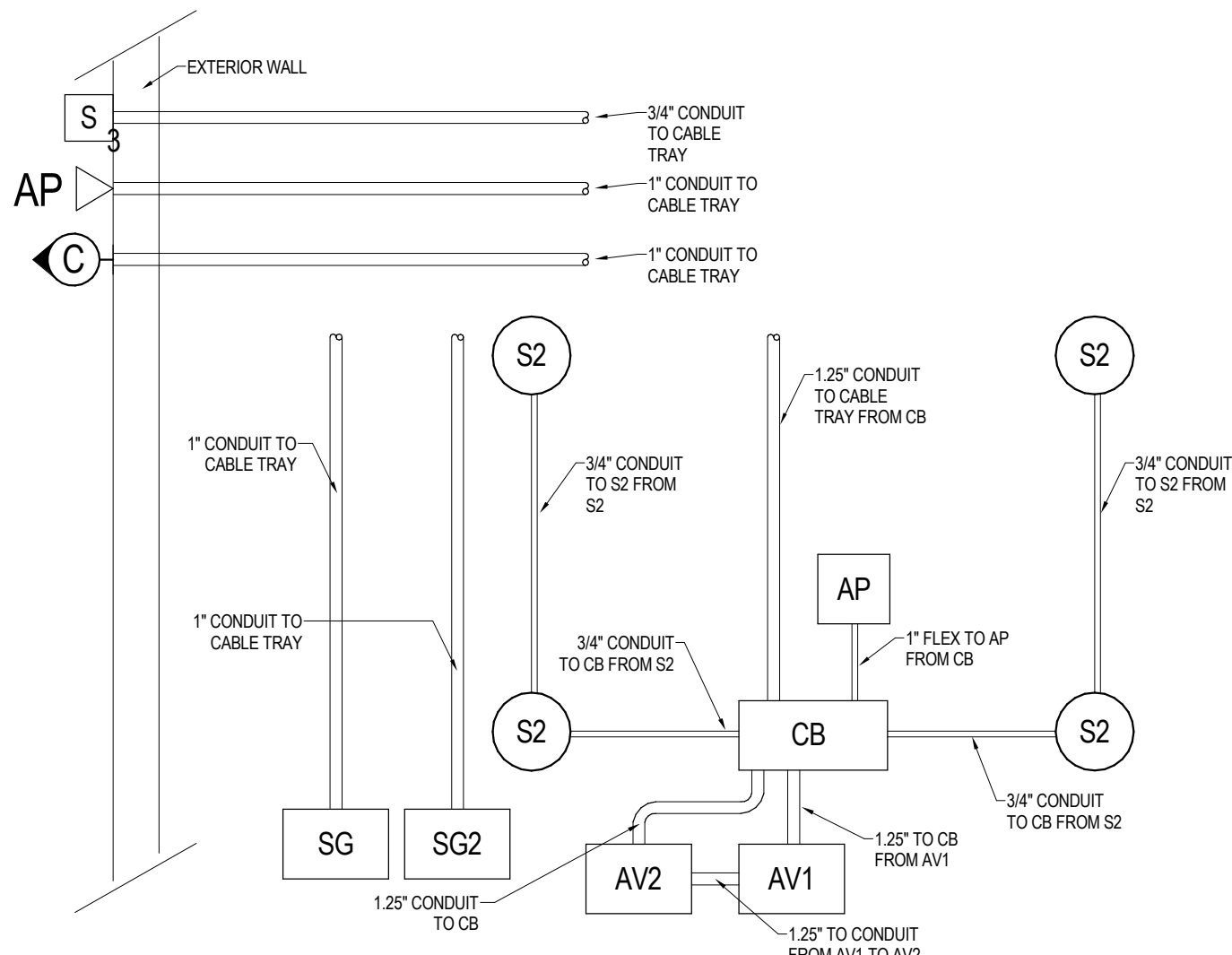
4 ROUGH-IN DETAILS
SCALE: NS

5 ROUGH-IN DETAILS
SCALE: NS

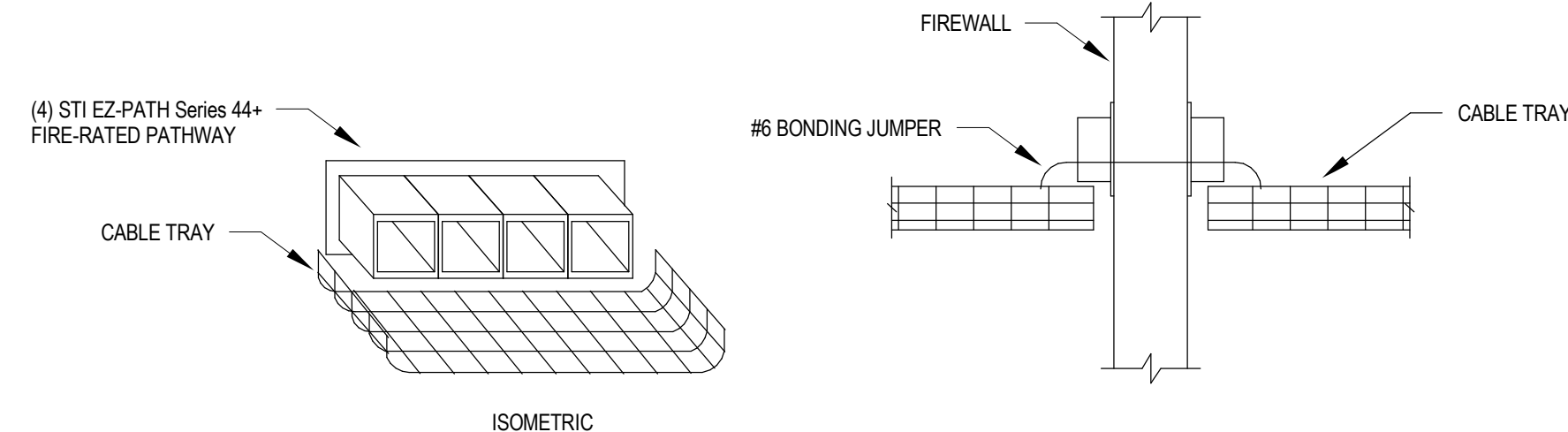


6 ROUGH-IN DETAILS
SCALE: NS

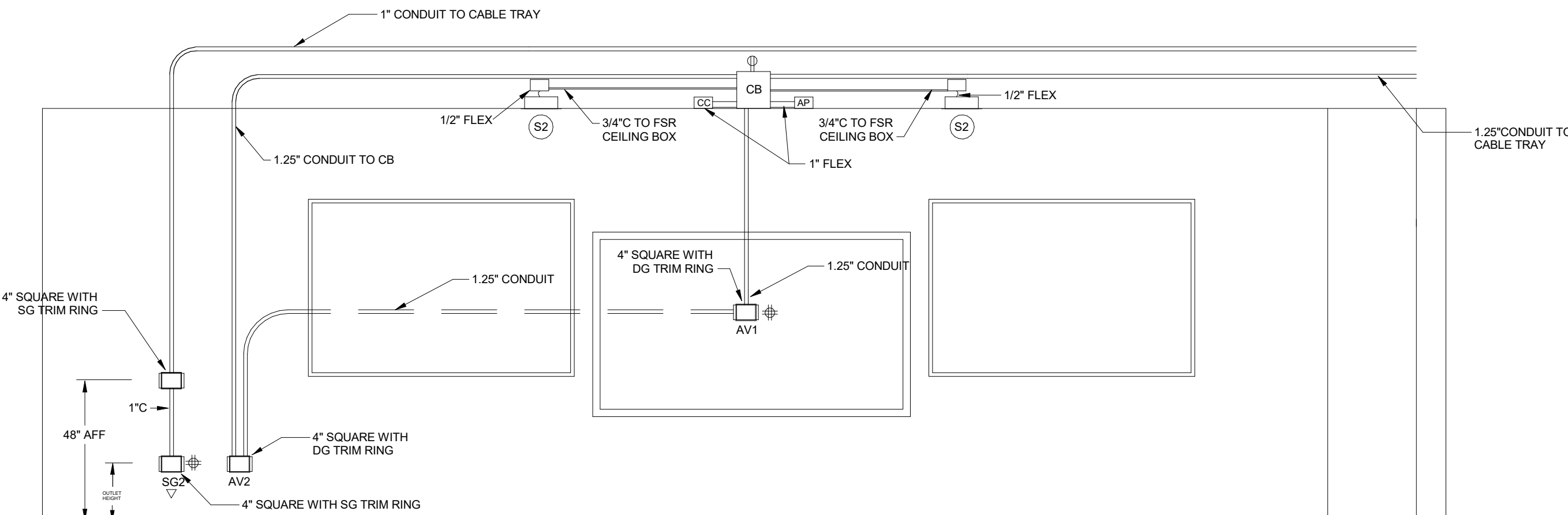
7 TYPICAL CLASSROOM OVERHEAD DIAGRAM
SCALE: NS



8 CABLE TRAY FIRE WALL PENETRATION DETAIL
SCALE: NTS



A



9 TYPICAL CLASSROOM COMMUNICATIONS ELEVATION PLAN
SCALE: NS

