

ABBREVIATIONS

©	AT	FOP	FACE OF PANEL	PTD	PAINTED
AFF	ABOVE FINISH FLOOR	FF	FACTORY FINISH	P	PLATE
ATC	ACOUSTICAL TILE CEILING	FIN	FINISH	PLAS	PLASTIC
ALUM	ALUMINUM	FIN FLR	FINISH FLOOR	PLYWD	PLYWOOD
BLKG	BLOCKING	FE	FIRE EXTINGUISHER	POL	POLISH
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET	PSF	POUNDS PER SQUARE FOOT
BOT	BOTTOM	FTG	FOOTING	PREFAB	PREFABRICATED
BRK	BRICK	FDN	FOUNDATION	R	RADIUS
CAB	CABINET	GALV	GALVANIZED	REF	REFRIGERATOR
CPT	CARPET	GA	GAUGE	R O	ROUGH OPENING
CMT	CERAMIC MOSAIC TILE	GL	GLASS	BRG HT	BEARING HEIGHT
CT	CERAMIC TILE	GMU	GLASS MASONRY UNIT	RUB	RUBBER
CLO	CLOSET	HDW	HARDWARE	SCH	SCHEDULE
COL	COLUMN	HORIZ	HORIZONTAL	SHTNG	SHEATHING
CONC	CONCRETE	HW	HOT WATER	SHT	SHEET
CMU	CONCRETE MASONRY UNIT	INS	INSULATION	SF	SQUARE FOOT
CG	CORNER GUARD	INT	INTERIOR	STL	STEEL
CW	COLD WATER	JT	JOINT	STIFF	STIFFENER
DIA	DIAMETER	LAV	LAVATORY	STR	STRUCTURAL
DS	DOWN SPOUT	LBS	POUNDS	SV	SHEET VINYL
DF	DRINK FOUNTAIN	MAX	MAXIMUM	SYS	SYSTEM
EA	EACH	MECH	MECHANICAL	TOS	TOP OF STEEL
EL	ELEVATION	MIN	MINIMUM	TYP	TYPICAL
EXIST	EXISTING	MO	MASONRY OPENING	UNO	UNLESS NOTED OTHERWISE
EJ	EXPANSION JOINT	NIC	NOT IN CONTRACT	UR	URINAL
EJC	EXPANSION JOINT COVER	NTS	NOT TO SCALE	VENT	VENTILATE OR VENTILATION
EXT	EXTERIOR	#	NUMBER	VCT	VINYL COMPOSITION TILE
EIFS	EXTERIOR INSUL/FINISH SYSTEM	OC	ON CENTER	WC	WATER CLOSET
FAB	FABRICATE	OCEW	ON CENTER EACH WAY	WDW	WINDOW
FOM	FACE OF MASONRY	OPNG	OPENING	WD	WOOD
FOS	FACE OF STUD	OD	OUTSIDE DIAMETER	WH	WATER HEATER

DRAWINGS INDEX

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A2	LIFE SAFETY PLAN
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A8	FRAMING DETAIL & SCHEDULE
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M2	MECHANICAL SECTION AND DETAIL
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P1	BOUNDARY SURVEY
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PROJECT INFORMATION

1. CODES
- A. 2012 NFPA 101 LIFE SAFETY CODE WITH AMENDMENTS

B. 2012 INTERNATIONAL BUILDING CODE WITH AMENDMENTS

C. 2012 INTERNATIONAL PLUMBING CODE WITH AMENDMENTS

D. 2012 INTERNATIONAL FUEL GAS CODE WITH AMENDMENTS

E. 2012 INTERNATIONAL MECHANICAL CODE WITH AMENDMENTS

F. 2009 INTERNATIONAL ENERGY CONSERVATION CODE WITH AMENDMENTS

G. 2011 NATIONAL ELECTRICAL CODE WITH AMENDMENTS

H. 2011 ICC/ANSI A117.1 AMERICAN NATIONAL STANDARDS FOR ACCESSIBILITY & USABLE BUILDINGS & FACILITIES
2. NEW CONSTRUCTION OR RENOVATION: NEW CONSTRUCTION.
3. CONSTRUCTION TYPE: TYPE II 000 NON-COMBUSTABLE
4. PROTECTED OR UNPROTECTED: UNPROTECTED
5. SPRINKLER OR NON-SPRINKLER: SPRINKLER
6. OCCUPANCY GROUP: GROUP A-3 ASSEMBLY
7. OCCUPANT LOAD: 442 OCCUPANTS
8. NUMBER OF STORIES ALLOWED: ONE
9. NUMBER OF STORIES PROVIDED: ONE
10. ALLOWED BUILDING HEIGHT: 50 FEET
11. ACTUAL BUILDING HEIGHT: 39 FEET
12. ALLOWABLE BUILDING AREA: 12,000 SQ. FT. / FLOOR
13. INCREASE IN BUILDING AREA ALLOWED: N/A
14. ACTUAL BUILDING AREA: 8,640 SQ. FT.
15. VARIANCE REQUIRED: NONE REQUIRED

MATERIALS LEGEND

	EARTH		ROUGH LUMBER
	POROUS FILL		WOOD SHIM
	CONCRETE		PLYWOOD
	BRICK		FINISHED WOOD
	CONC MASONRY UNIT		INSULATION -BATT
	METAL		INSULATION - RIGID

SYMBOLS

	DRAWING NUMBER PAGE NUMBER	2 A6	DETAIL
	DRAWING NUMBER PAGE NUMBER	4 A4	SECTION
	DRAWING NUMBER PAGE NUMBER	1 A8	BUILDING SECTION
	WINDOW TYPE	B	
	DOOR NUMBER	17	
	INTERIOR ELEVATIONS	W4 S4 E4 N4	
	KEY NOTE	5	

GENERAL NOTES

1. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, DETAILS, AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING DIMENSIONS, DETAIL AND CONDITIONS AND THOSE SHOWN ON CONTRACT DOCUMENTS PRIOR TO STARTING ANY WORK AFFECTED BY OR INVOLVING THESE DISCREPANCIES. INITIATING WORK SHALL BE DEEMED AS ACCEPTANCE BY CONTRACTOR OF EXISTING CONDITIONS AND MODIFICATIONS IF REQUIRED SHALL BE APPROVED BY THE ARCHITECT AND BE MADE AT THE CONTRACTOR'S EXPENSE.
2. PROVIDE WOOD BLOCKING IN STUD WALL CAVITIES FOR MOUNTING DOOR HARDWARE, TOILET ACCESSORIES, CABINETS, RUNNING TRIM, ETC.
3. RATED WALL SHALL BE LABELED IN THE CEILING CAVITY W/ RED PAINT IDENTIFYING THEM AS RATED PARTITIONS, THEIR RATING AND THE WORDS "NO UNPROTECTED PENETRATIONS".
4. THE ARCHITECT IS PROVIDING ARCHITECTURAL DESIGN & CONTRACT DOCUMENTS ONLY. THE ARCHITECT IS NOT PROVIDING AND SHALL NOT BE RESPONSIBLE FOR CIVIL, PLUMBING, MECHANICAL OR ELECTRICAL ENGINEERING DESIGN OR CONSTRUCTION DOCUMENTS FOR THIS PROJECT. THE ARCHITECT IS NOT PROVIDING CONSTRUCTION ADMINISTRATION SERVICES ON THIS PROJECT.



TITLE SHEET

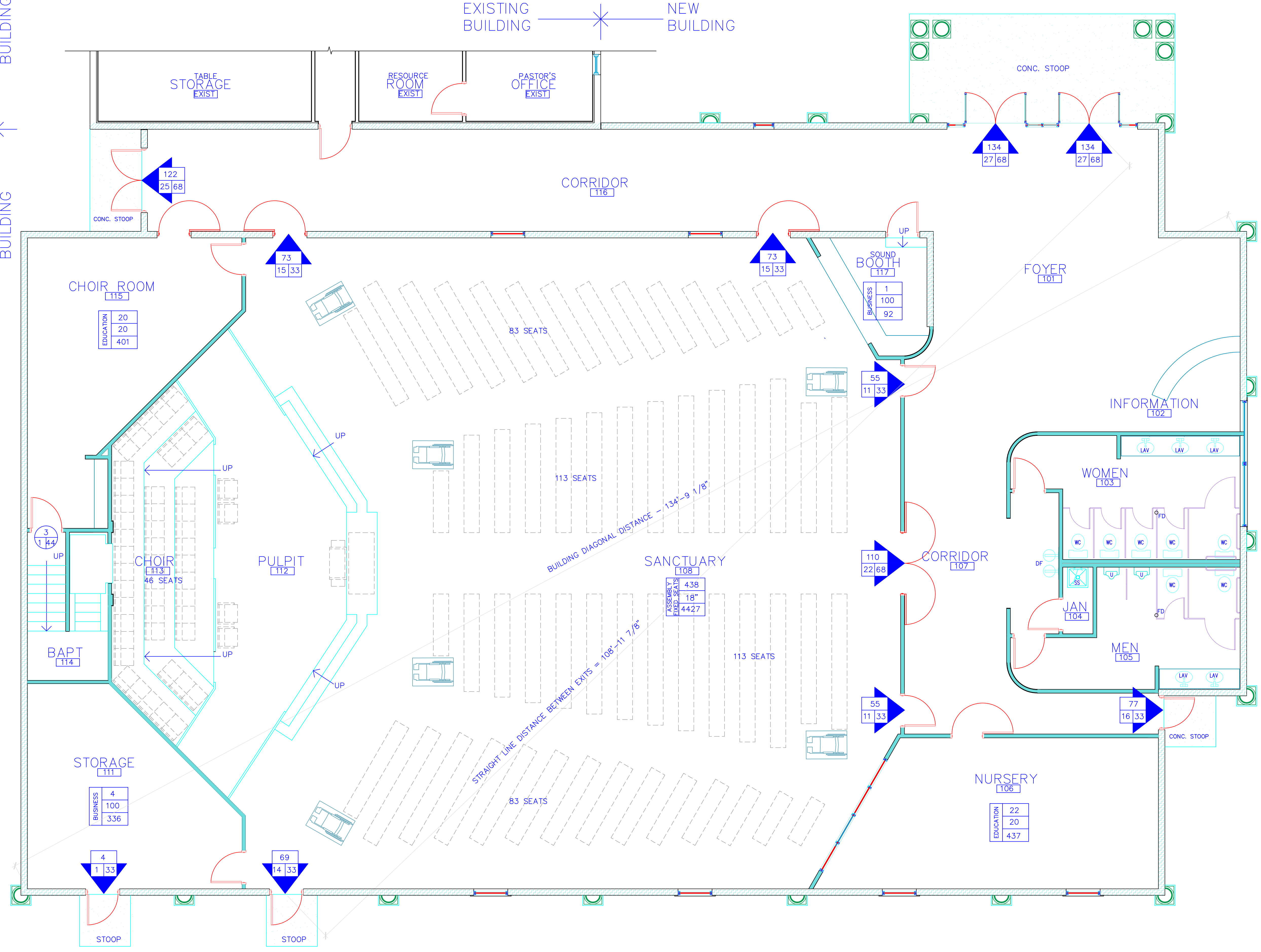
ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION

EXISTING BUILDING

NEW BUILDING

EXISTING BUILDING

NEW BUILDING



LIFE SAFETY LEGEND

ROOM NAME - SEE FINISH SCHEDULE A2.5
ROOM NUMBER

FIRE BARRIER W/ 1 HOUR RESISTANCE RATING

SPACE

USE	A
	B
	C

TOTAL OCCUPANTS IN THAT SPACE (C/B = A)
OCCUPANT LOAD FACTOR (SQ FT / PERSON)
SQUARE FOOTAGE OF SPACE (SQ FT)

OCCUPANCY USE

STAIRS

A
B
C

NUMBER OF OCCUPANTS USING THIS STAIR
PROVIDED EGRESS CAPACITY (INCHES)
REQUIRED EGRESS CAPACITY (INCHES) $A \times 0.3 = B$

EXIT

A
B
C

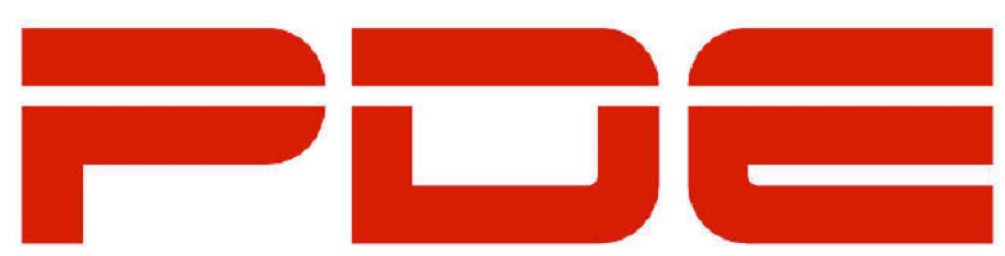
NUMBER OF OCCUPANTS USING THIS EXIT
PROVIDED EGRESS CAPACITY (INCHES)
REQUIRED EGRESS CAPACITY (INCHES) $A \times 0.2 = B$

TRAVEL

A
B
C

MOST REMOTE TRAVEL DISTANCE (LINEAR FEET)
MAX. TRAVEL DISTANCE - SPRK. (LINEAR FEET) (NFPA 2003, TABLE A7.6)
MAX. TRAVEL DISTANCE - SPRK. (LINEAR FEET) (SBC 1999, TABLE 1004)

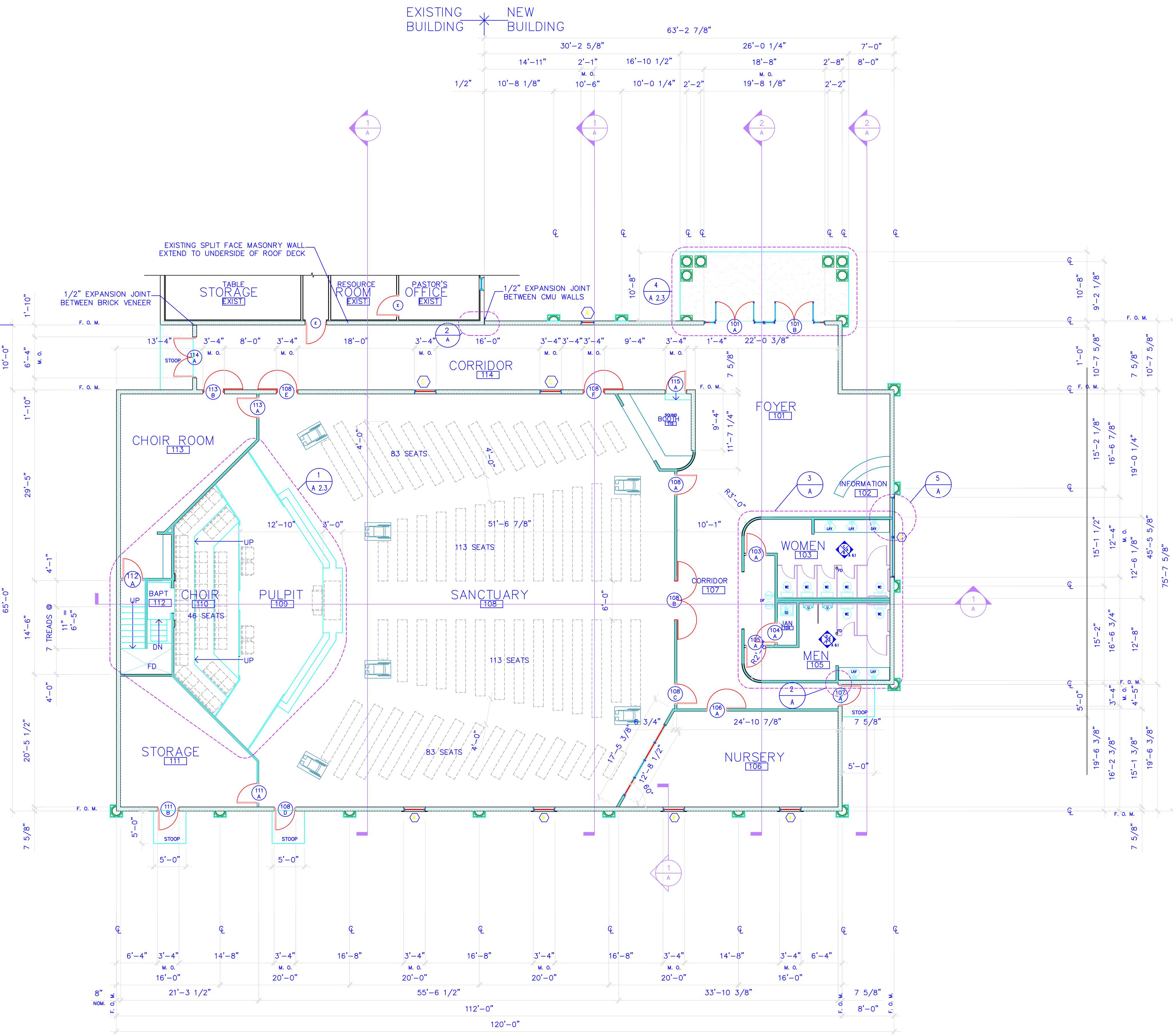
NOTES:
1. DIMENSIONS ARE TO FACE OF MASONRY UNLESS OTHERWISE NOTED.
2. WHERE NOTED, INTERIOR PARTITIONS ARE 1-HOUR CONSTRUCTION PER IBC 14-1.3.



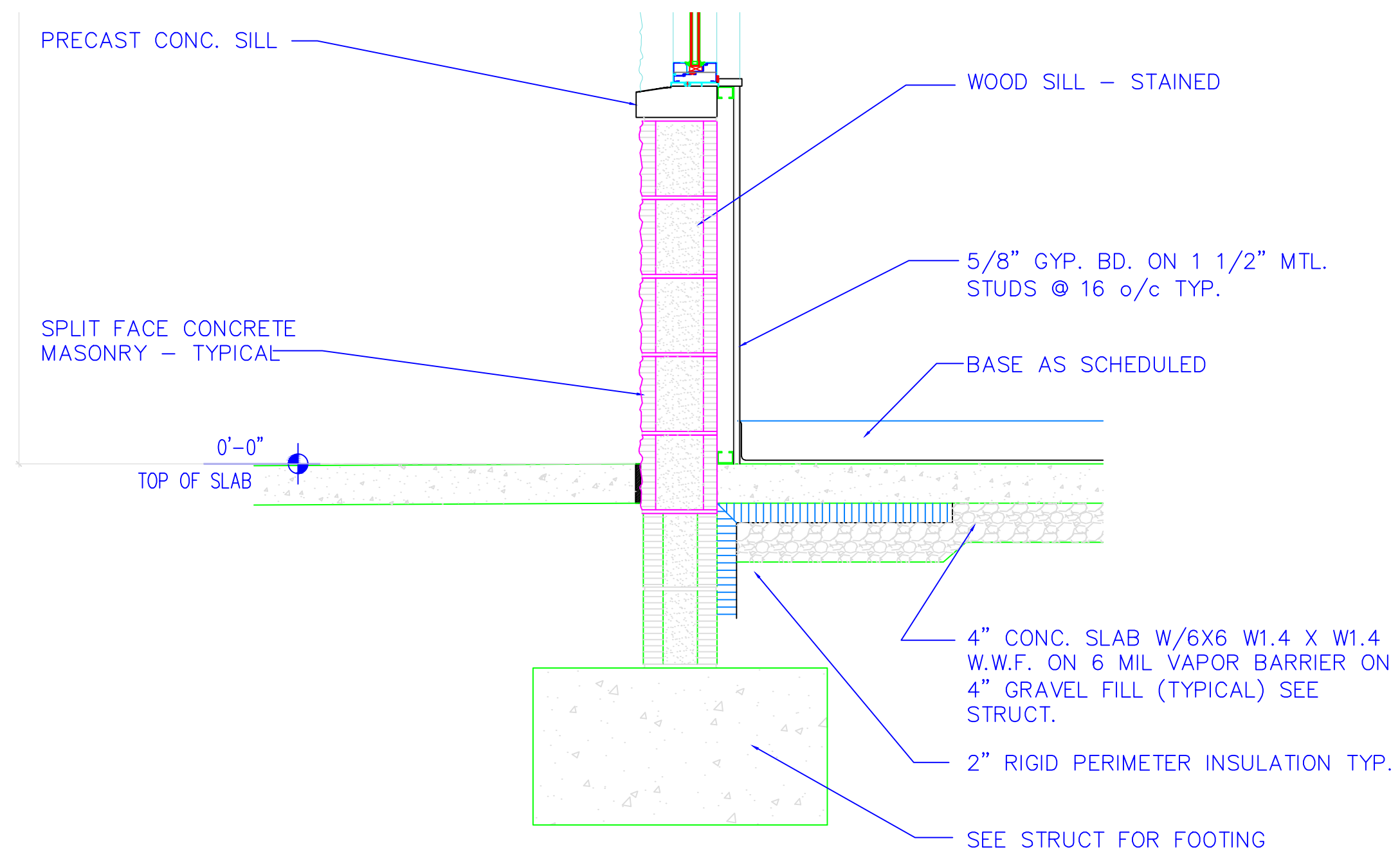
LIFE SAFETY PLAN
ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION

NEW BUILDING

EXISTING BUILDING

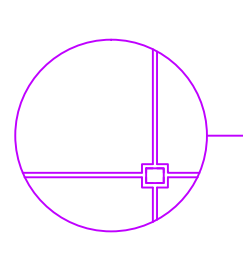


1
A
FLOOR PLAN DETAIL
TYPICAL

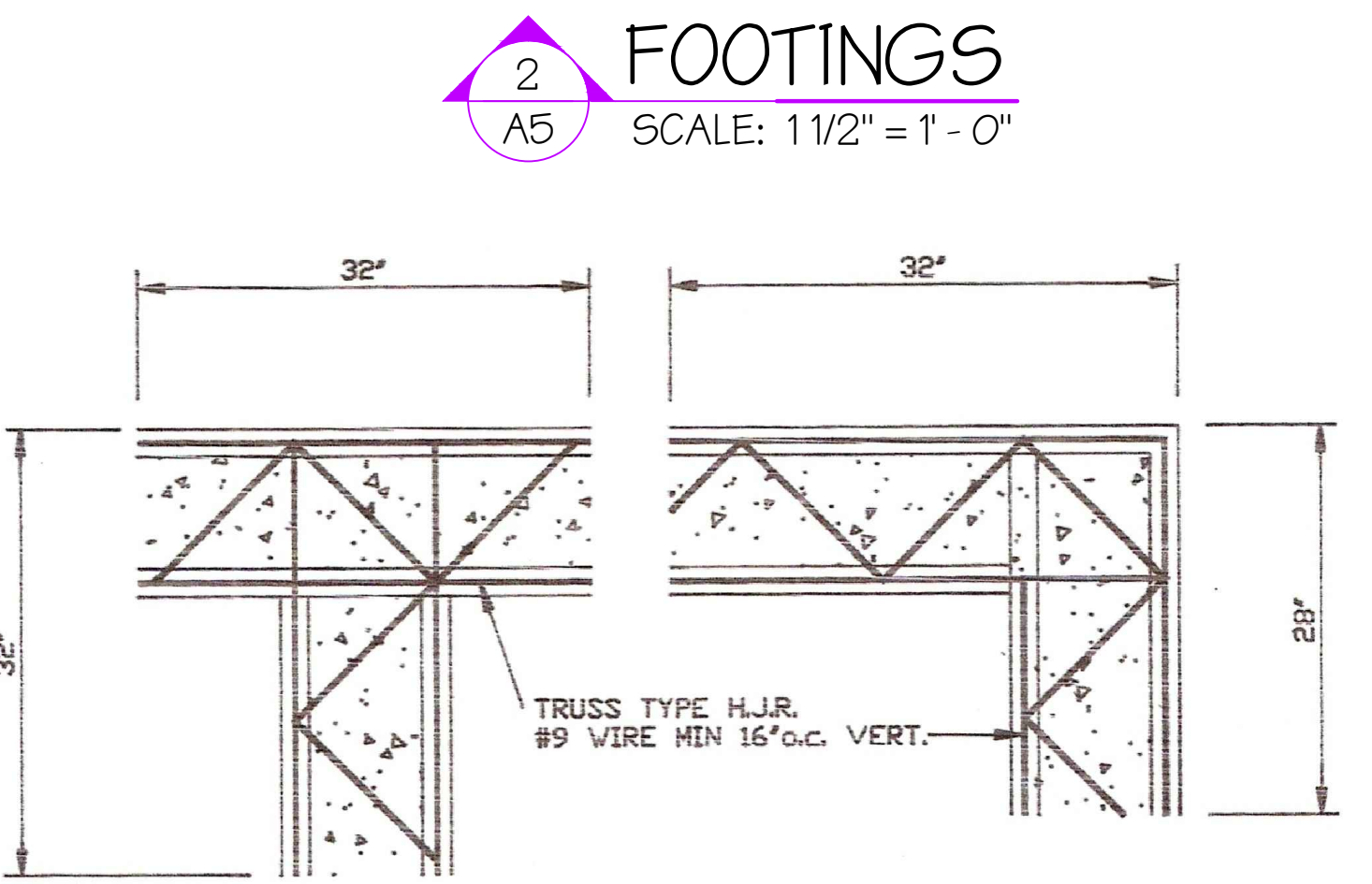
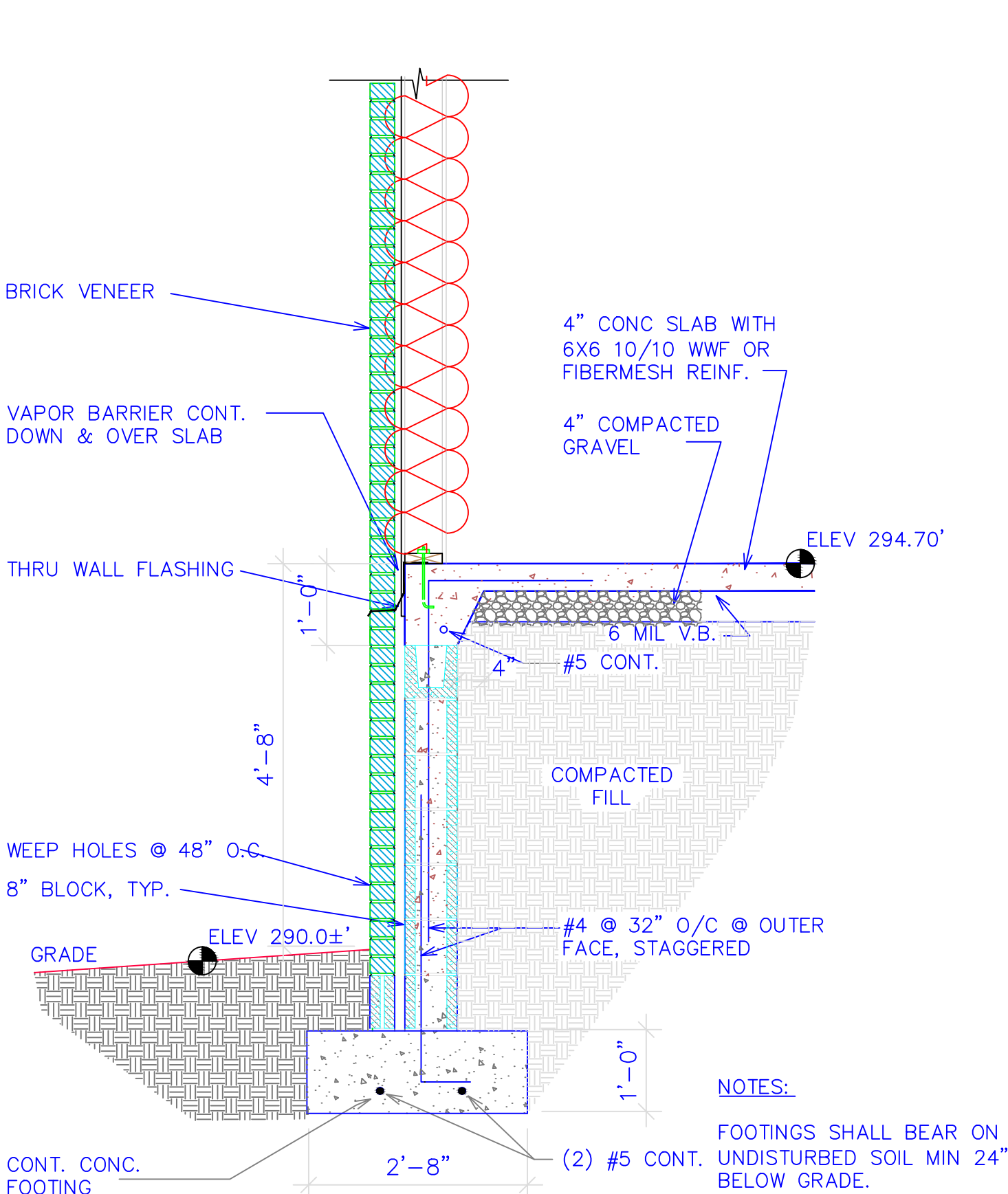
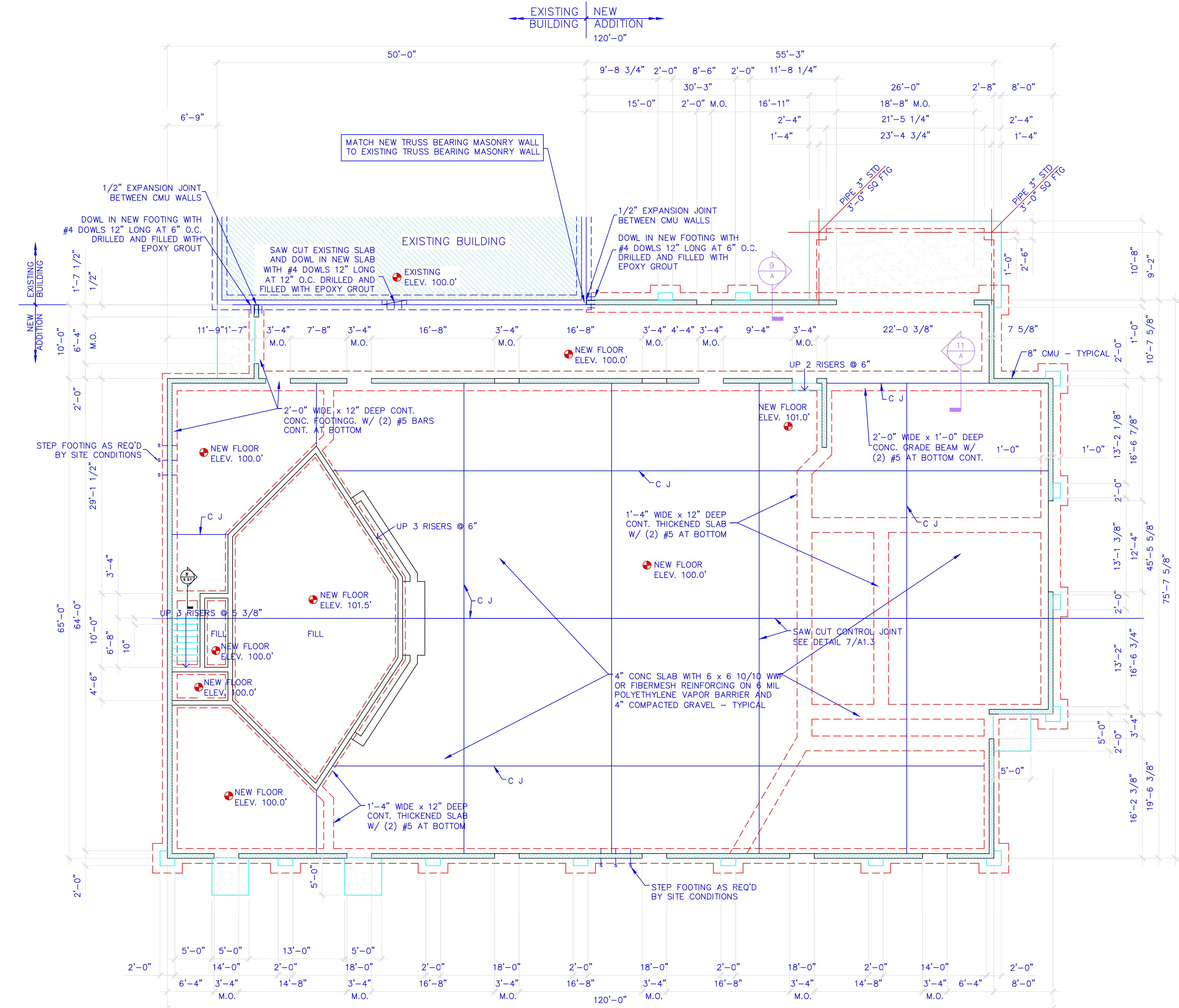


1
A
BASE FLOORING DETAIL
TYPICAL

- EXISTING STRUCTURE
- BRICK VENEER
- 8" CONCRETE BLOCK OR MASONRY UNITS (CMU).
- 5/8" TYPE "X" GYP. BD. EA. SIDE 3 5/8" METAL STUDS @ 16" O.C. W/ 1 1/2" ACOUSTICAL BATT INSULATION.
- 5/8" TYPE "X" GYP. BD. EA. SIDE 6" METAL STUDS @ 16" O.C. W/ R-19 BATT INSULATION - SEAL TIGHT TO ROOF DECK.



FLOOR PLAN
ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION



- CONCRETE NOTES:**
- A. CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
 - B. CEMENT TO BE PORTLAND TYPE 1 OR APPROVED EQUAL.
 - C. MIX DESIGN SHALL BE DOCUMENTED IN ACCORD WITH SECTION 03300 OF THE PROJECT SPECS AND ACI 301, CHAPTER 3 "PROPORTIONING". MIX DESIGNS WHICH ARE SUBMITTED WITHOUT THE REQUIRED DOCUMENTATION WILL BE REJECTED. FIELD SLUMPS RECORDED AT JOB SITE SHALL NOT EXCEED THE SLUMP ESTABLISHED FOR THE MIX DESIGN.
 - D. CONCRETE SHALL HAVE AN ALLOWABLE COMPRESSIVE STRENGTH AS NOTED BELOW:
 - INTERIOR SLABS ON GRADE, $F'_c = 3,000$ PSI
 - FOUNDATIONS, $F'_c = 3,000$ PSI
 - STRUCTURAL SLABS ON MTL DECK, $F'_c = 3,000$ PSI
 - E. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
 - FOOTINGS, 3"
 - SLAB-ON-GRADE, 3"
 - ELEVATED SLABS, 1"
 - F. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4 INCH UNLESS NOTED.
 - G. CONCRETE SHALL NOT BE POURED IN WATER OR ON FROZEN GROUND AND SHALL BE PROTECTED FROM FROST DURING CONSTRUCTION.
 - H. CONTRACTOR SHALL COORDINATE ALL CONTRACT DRAWINGS FOR THE LOCATION OF ANCHOR BOLTS, FLOOR DRAINS, INSERTS, ETC., BEFORE POURING CONCRETE.
 - I. SLABS:
 - 1. SLAB THICKNESS INDICATED ON DRAWINGS IS MINIMUM AND SHALL BE MEASURED FROM LOW POINT ON FLOOR. CONTRACTOR SHALL COORDINATE ALL DRAWINGS TO ASSURE THAT ALL FLOORS HAVE PROPER SLOPE TO DRAIN IN TOILETS, SHOWERS, ETC.
 - 2. "C.J.", AS INDICATED ON SLAB, INDICATES 3/4" DEEP SAW CUT CONTROL JOINT OR KEED CONSTRUCTION JOINT IN SLAB-ON-GRADE. MAKE CUTS WITHIN 12 HOURS AFTER CONCRETE PLACEMENT.
 - J. REINFORCEMENT:
 - 1. ALL DETAILING, FABRICATION AND PLACEMENT OF REINFORCING STEEL, MIXING, HANDLING, PLACING, FINISHING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI-315 AND ACI-318.
 - 2. WIRE MESH REINFORCEMENT SHALL BE CENTERED IN SLAB, BY USE OF HIGH CHAIR WELDING WASHERS OR CONTINUOUS BEAM BOLSTERS.
 - 3. WELDED WIRE FABRIC AND WIRE SHALL BE LAPPED THE SPACING OF THE CROSS WIRES PLUS 2'.
 - K. CONCRETE MASONRY UNITS (CMU):
 - 1. DOWEL ALL VERTICAL REINFORCEMENT FROM FOUNDATIONS. HOLD VERTICAL BARS PLUMB. PROVIDE A MINIMUM OF 1/2" GROUT BETWEEN MAIN REINFORCEMENT AND CMU.
 - 2. HOLLOW CONCRETE BLOCK (MASONRY) UNITS SHALL CONFORM TO A.S.T.M. C90, LIGHTWEIGHT, TYPE N1 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI ON THE NET AREA. SAMPLE AND TEST IN ACCORDANCE WITH ASTM C140 ($f_m=1500$ PSI).
 - 3. ALL MORTAR FOR MASONRY SHALL CONFORM TO A.S.T.M. C270, TYPE M OR S. USE TYPE N MORTAR FOR BRICK AND INTERIOR NON-LOAD BEARING PARTITIONS. ALL GROUT FOR USE IN MASONRY SHALL CONFORM TO A.S.T.M. C476, 3000 PSI @ 28 DAYS. DETERMINE COMPRESSIVE STRENGTH OF GROUT IN ACCORDANCE WITH ASTM C1019.
 - 4. HORIZONTAL JOINT REINFORCEMENT (HJR) IN MASONRY WALLS SHALL BE CONTINUOUS TRUSS TYPE WITH NO. 9 SIDE RODS AND CROSS-TIES OF GALVANIZED COLD DRAWN MILD STEEL WIRE CONFORMING TO A.S.T.M. A82.
 - 5. MASONRY IS TO BE LAID IN RUNNING BOND UNLESS OTHERWISE NOTED. ALL CORNERS AND INTERSECTING WALLS SHOULD INTERLOCK.
 - 6. FOR HOT WEATHER CONSTRUCTION, IMPLEMENT THE FOLLOWING PROCEDURES WHEN THE AMBIENT TEMP. EXCEEDS CONDITIONS BELOW:
 - (a) 100°F OR
 - (b) 90°F w/WIND VELOCITY GREATER THAN 8 mph
 - a. DO NOT SPREAD MORTAR BEDS MORE THAN 4'-0" AHEAD OF MASONRY.
 - b. SET MASONRY UNITS WITHIN ONE MIN. OF SPREADING MORTAR.

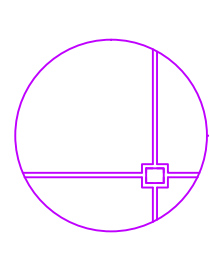
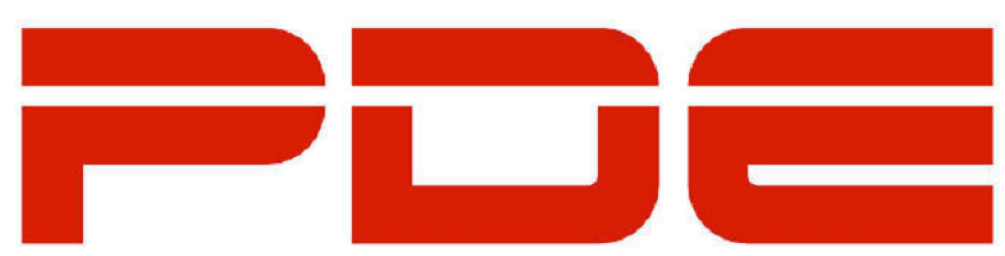
1 FOUNDATION
SCALE: 1 1/2" = 1' - 0"

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

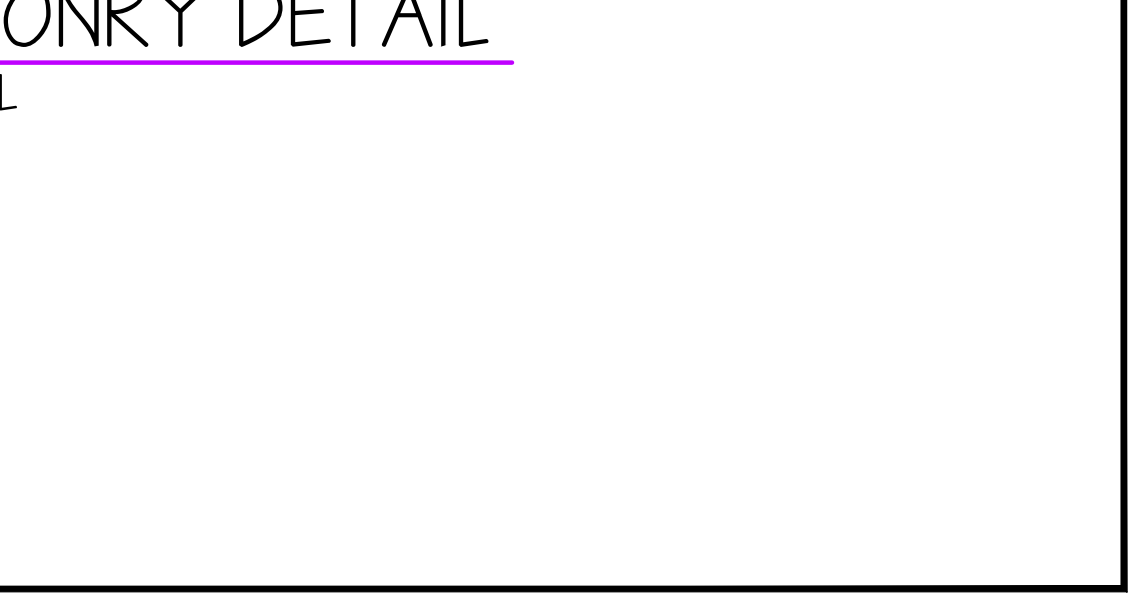
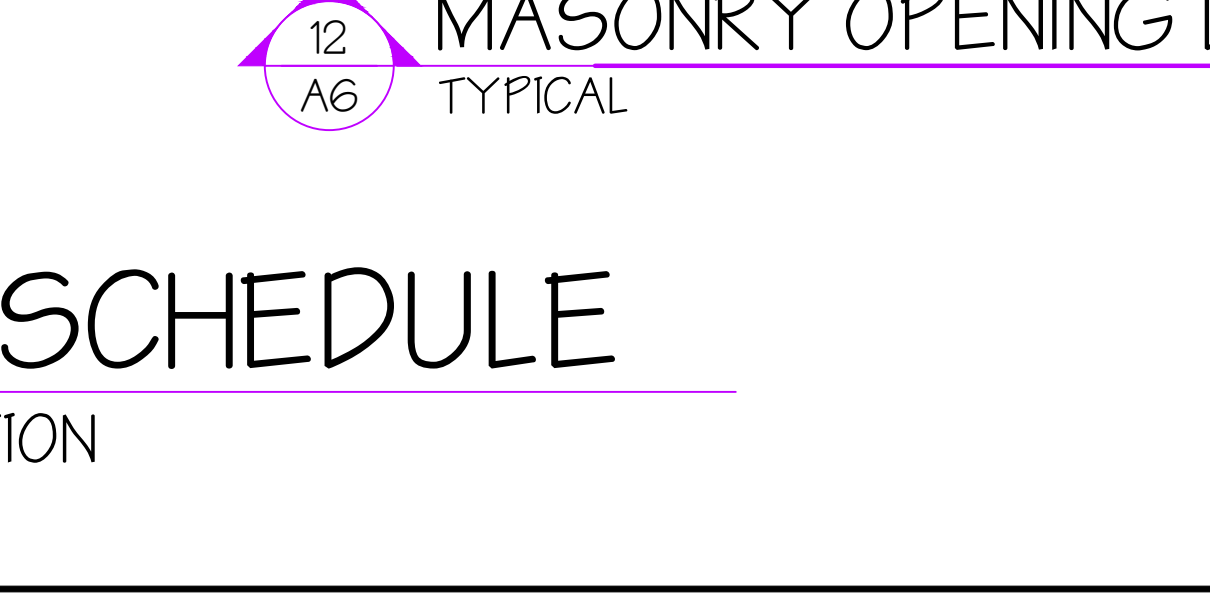
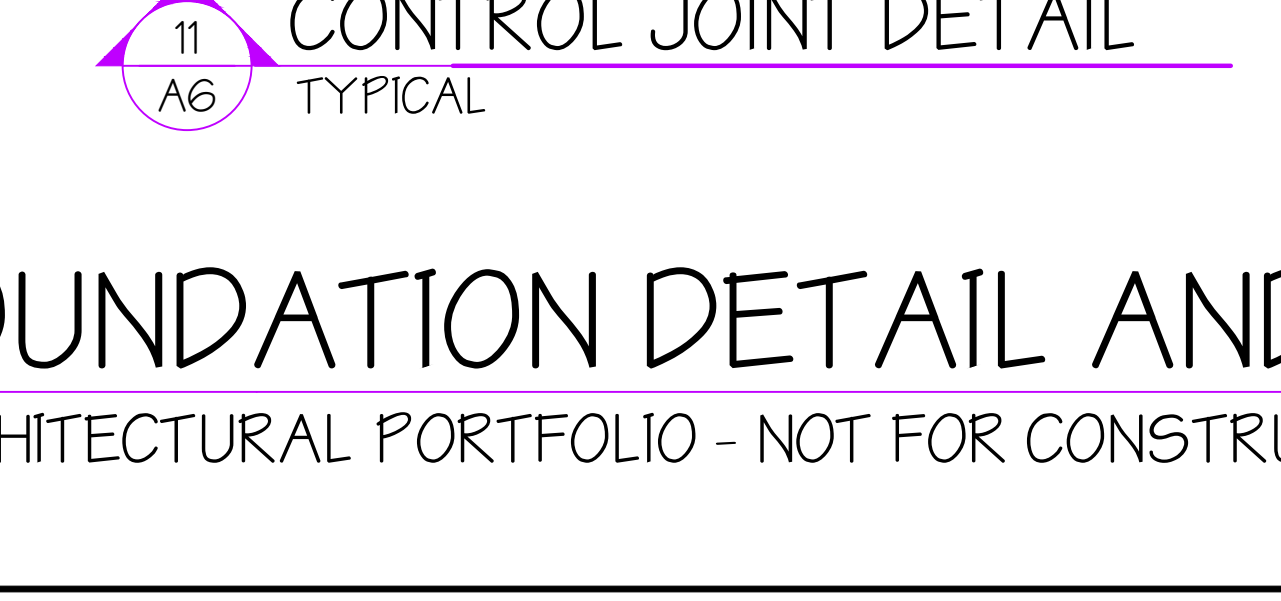
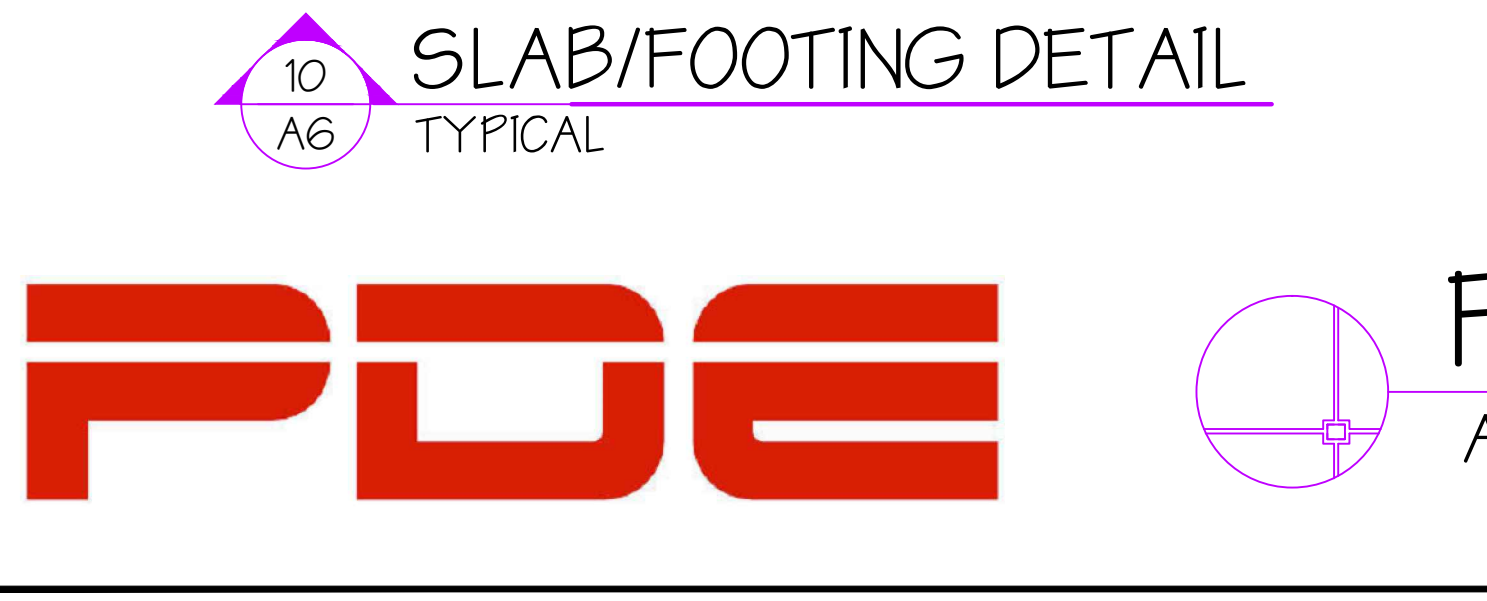
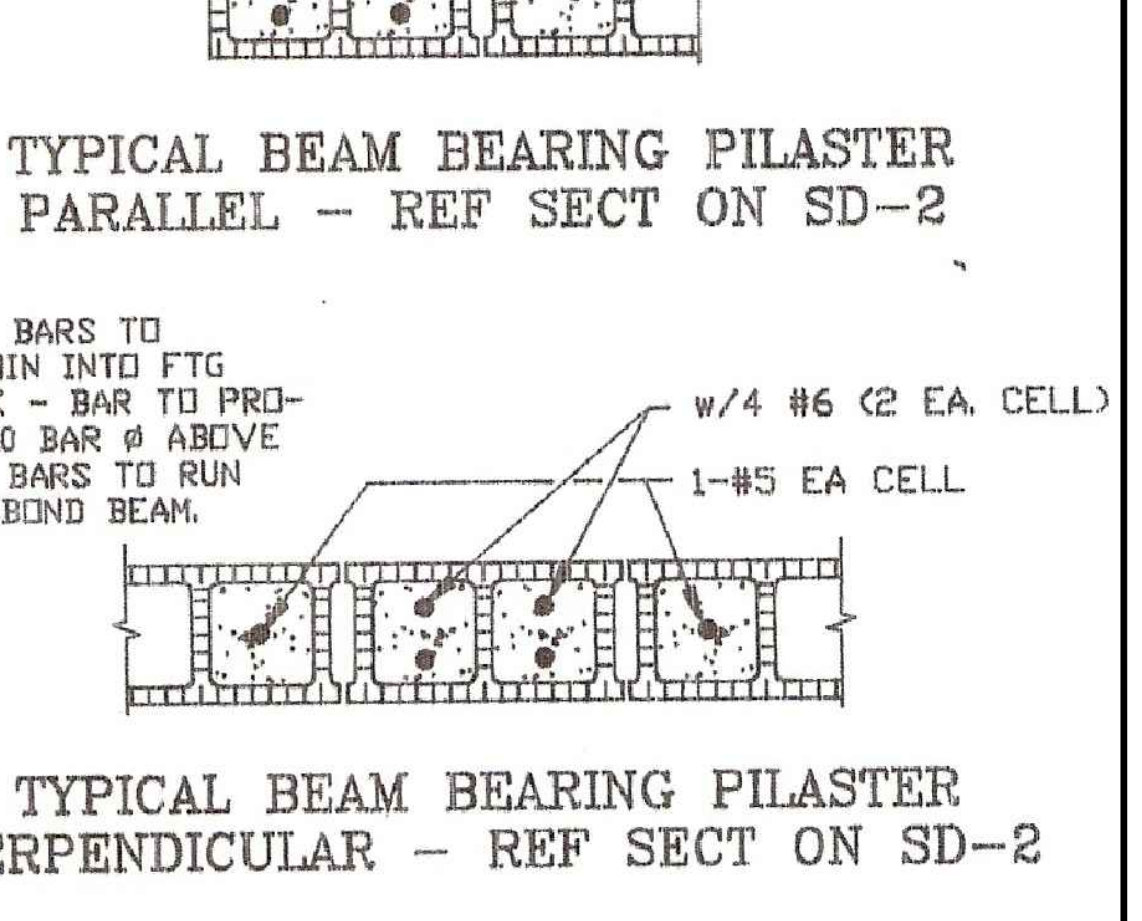
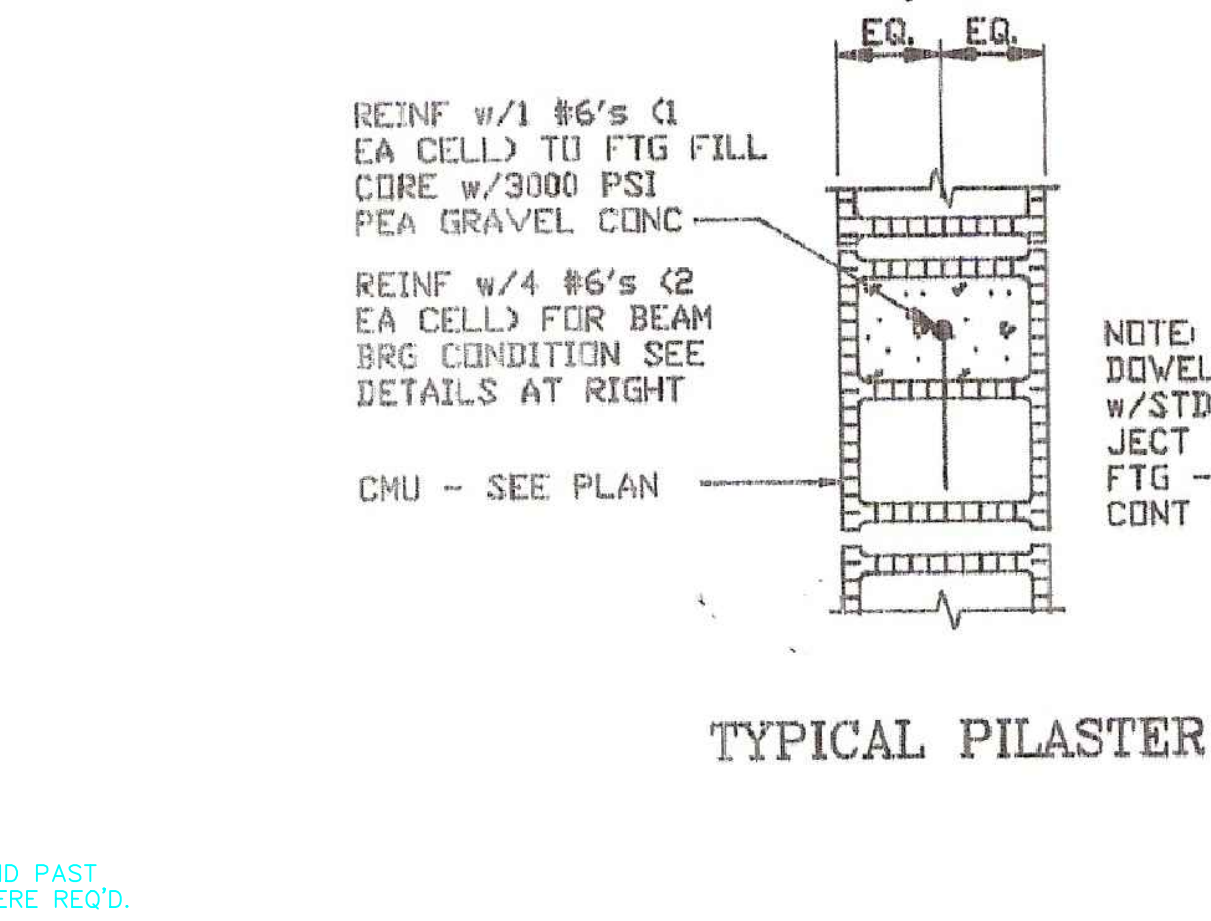
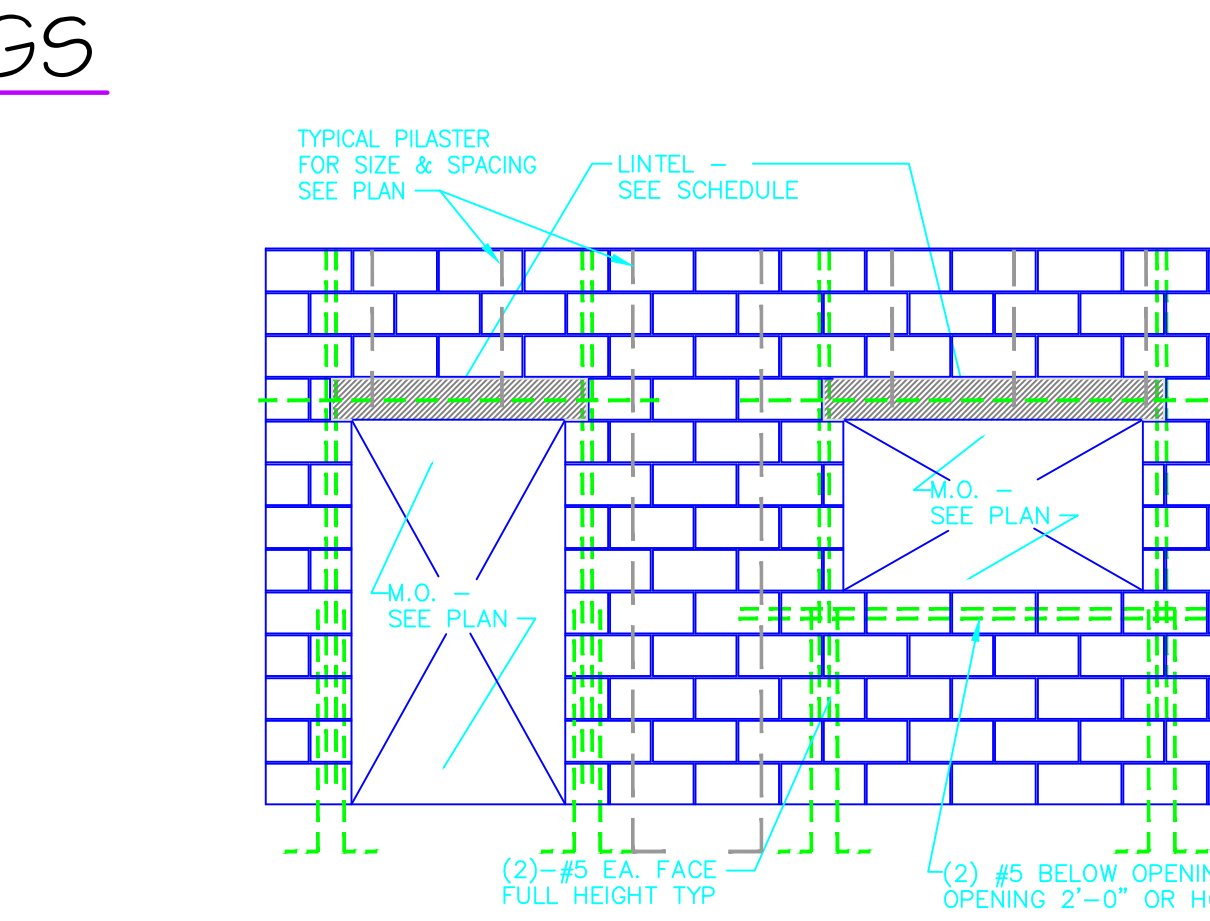
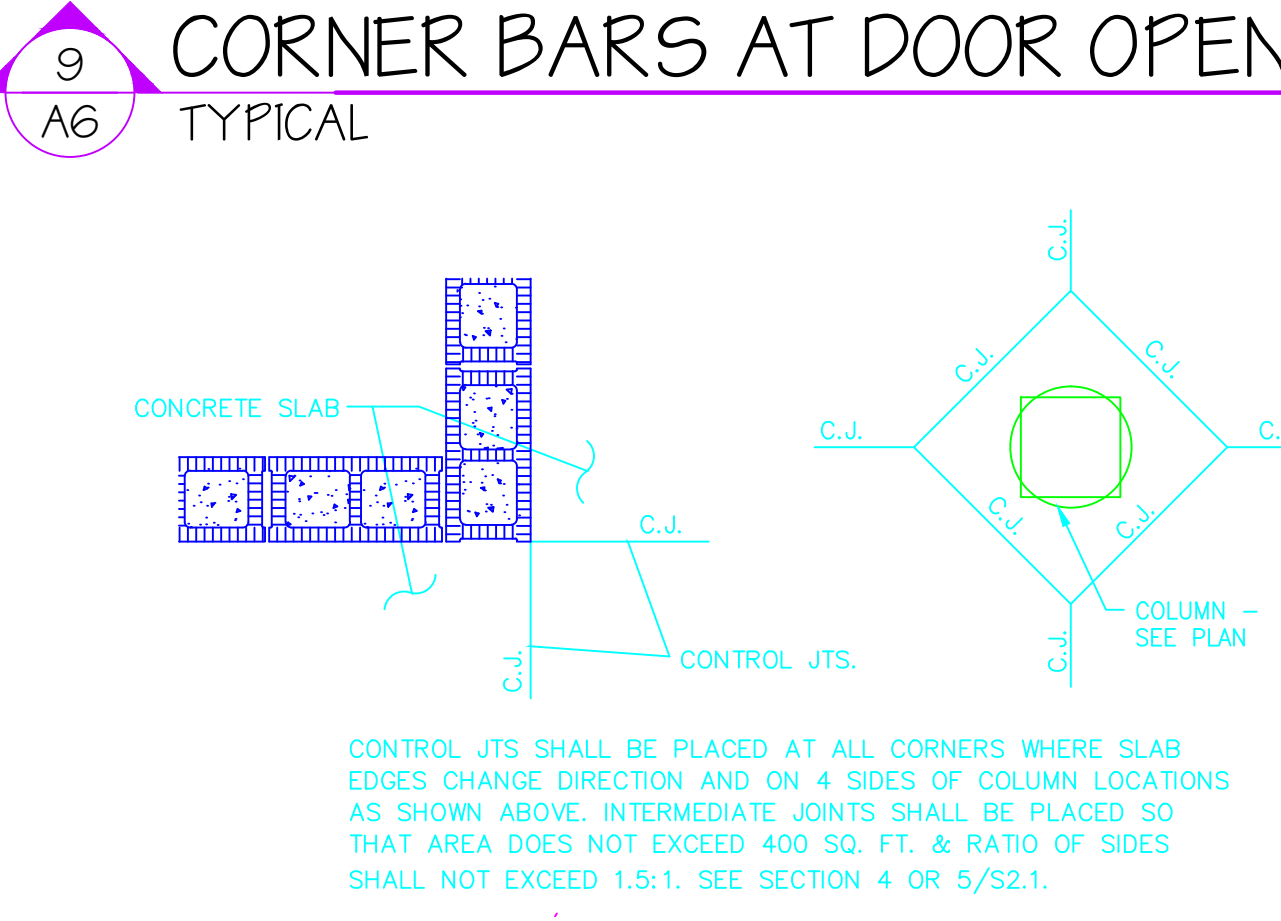
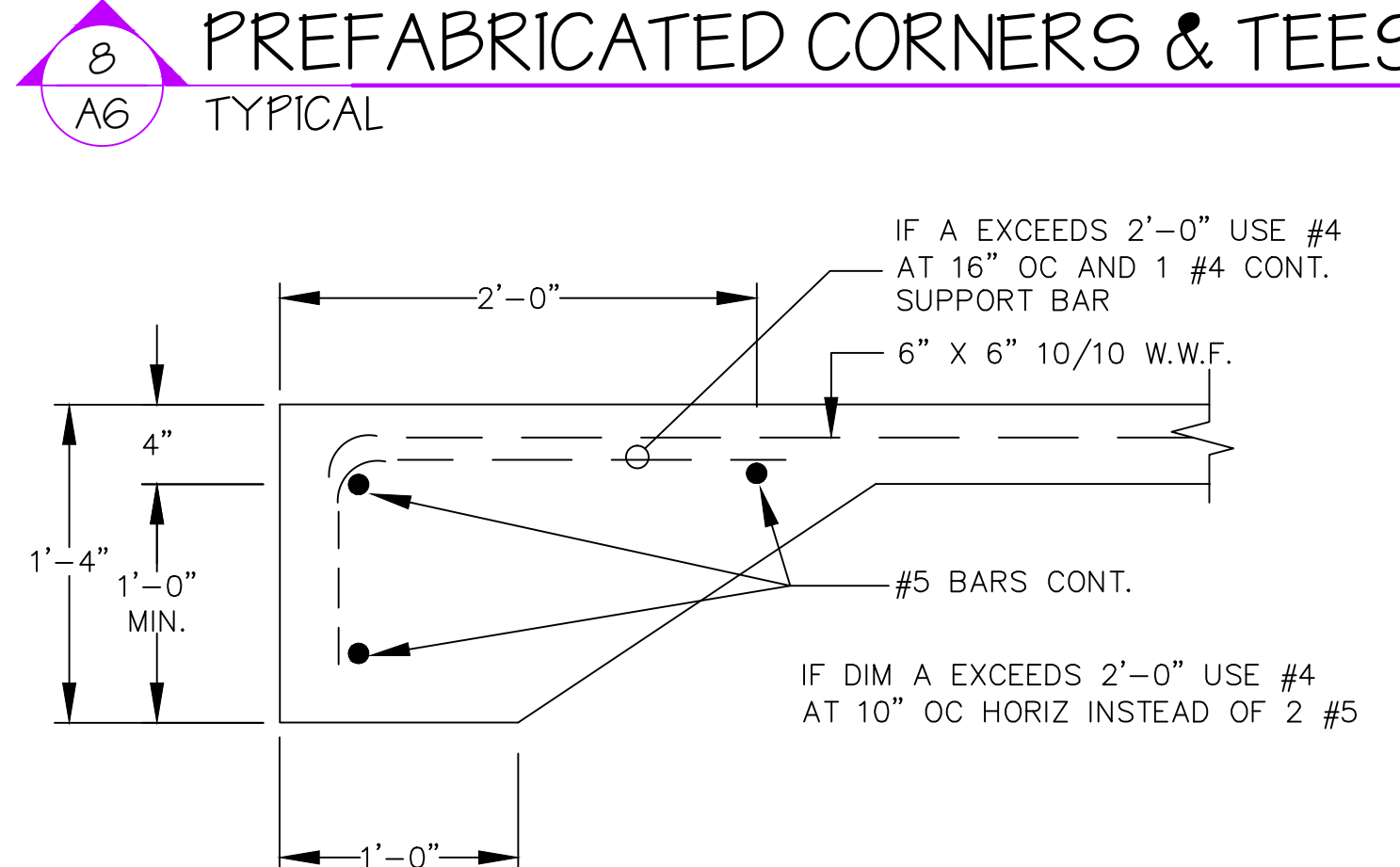
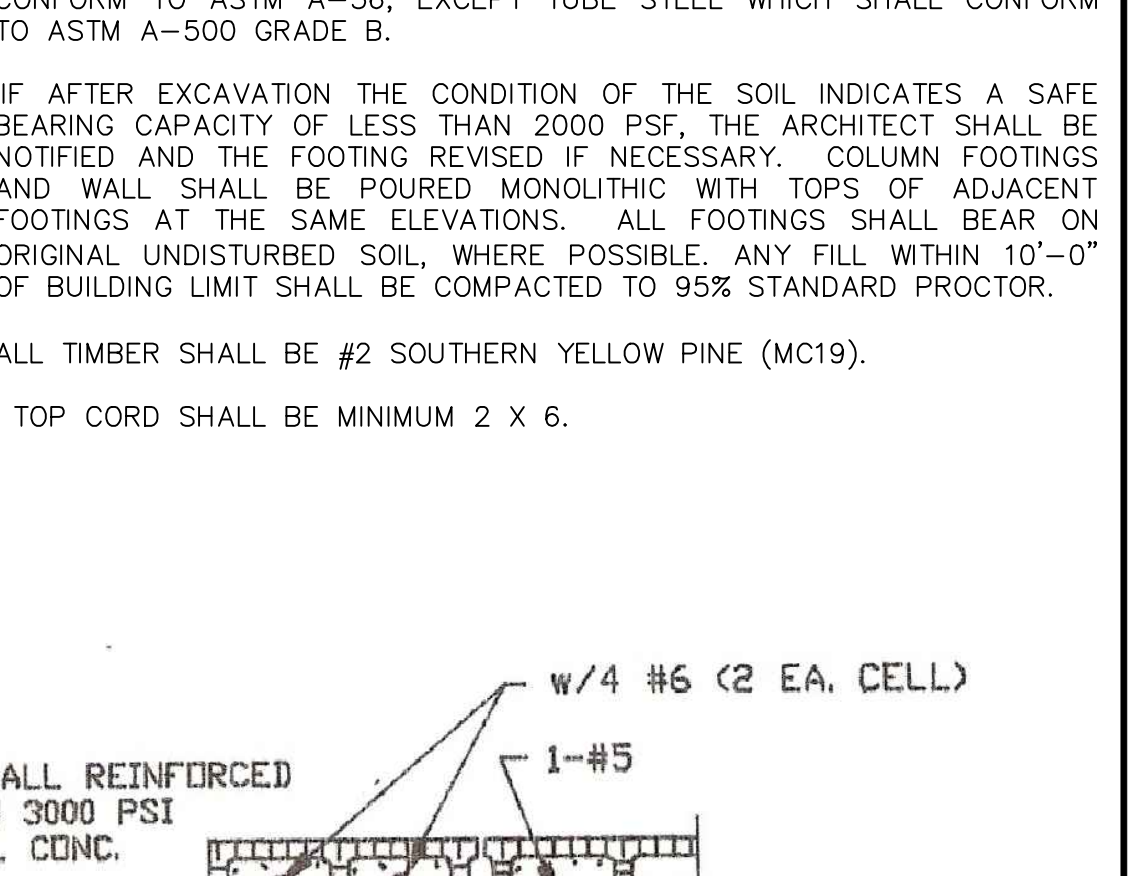
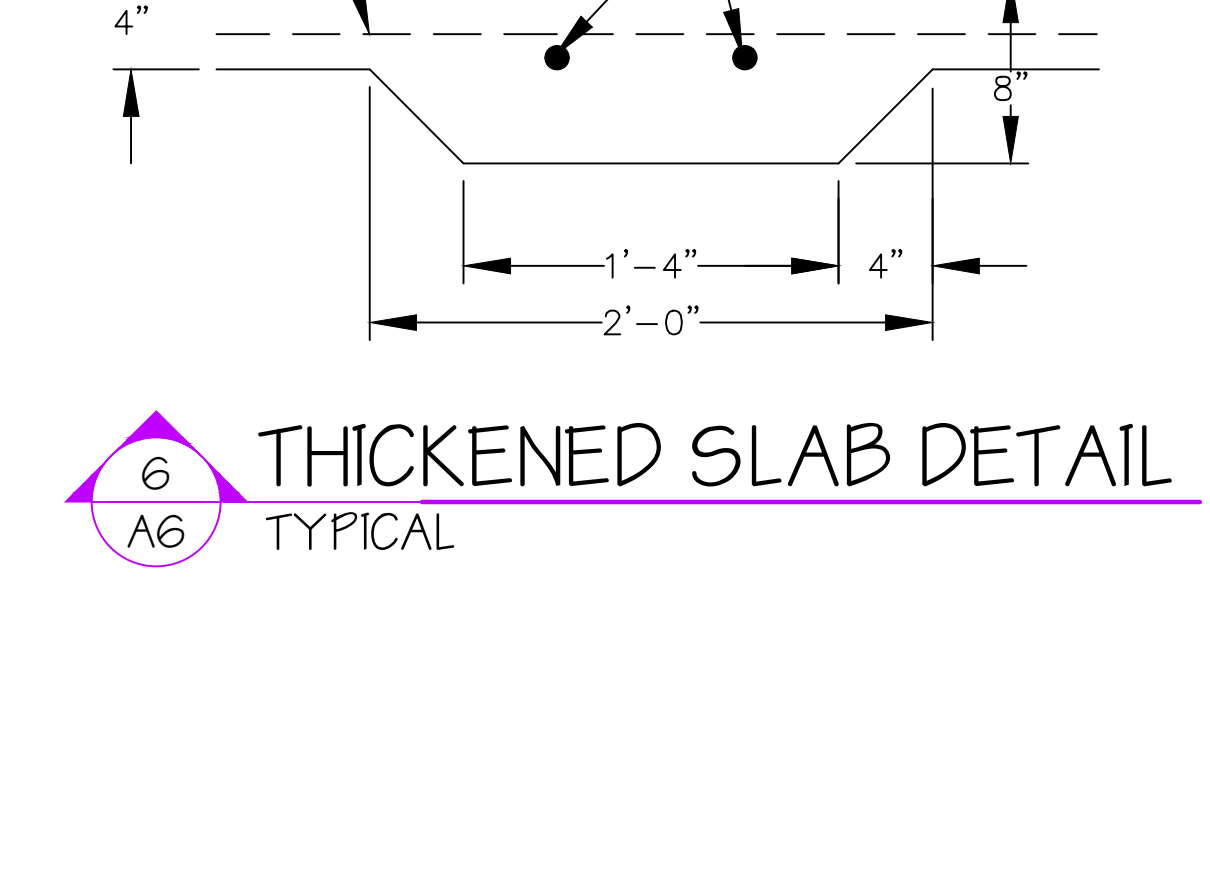
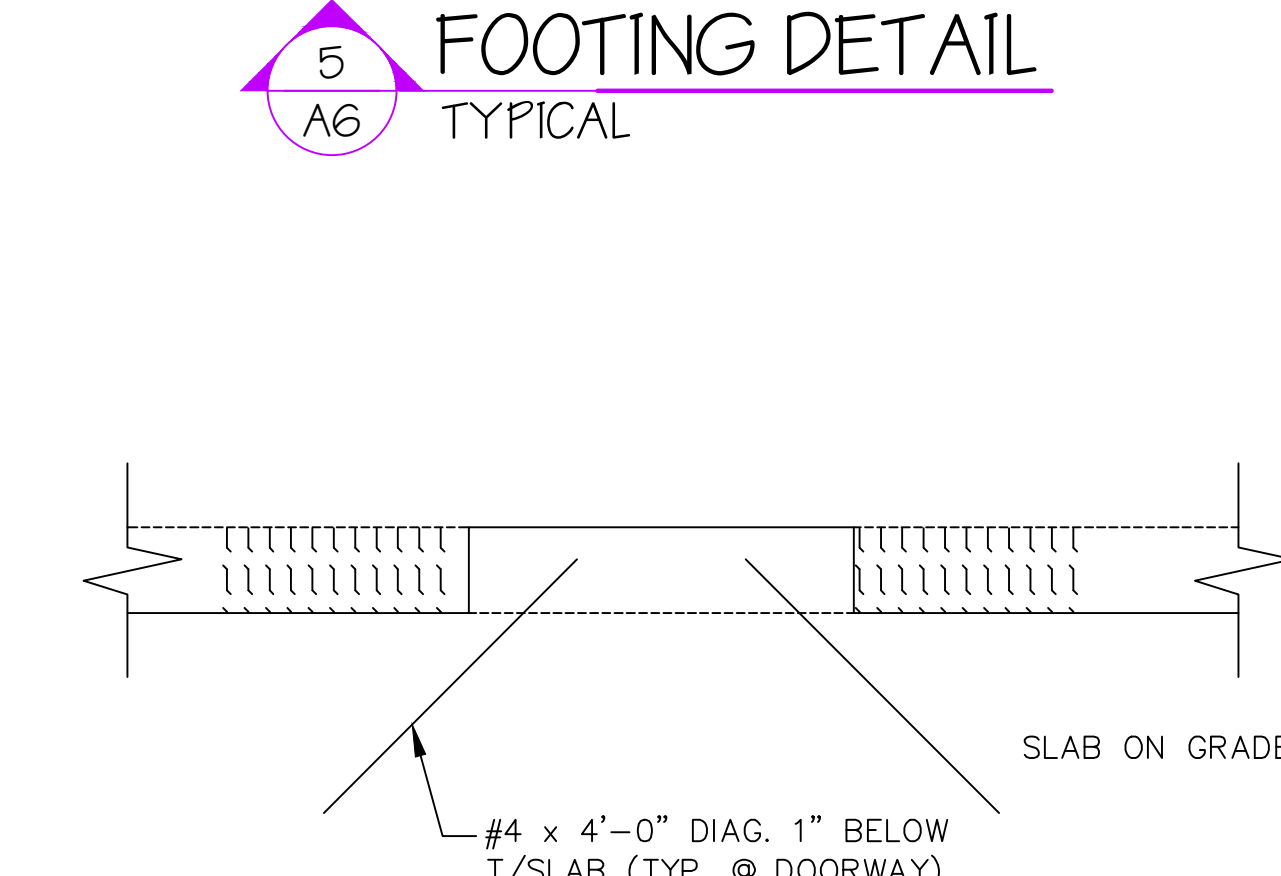
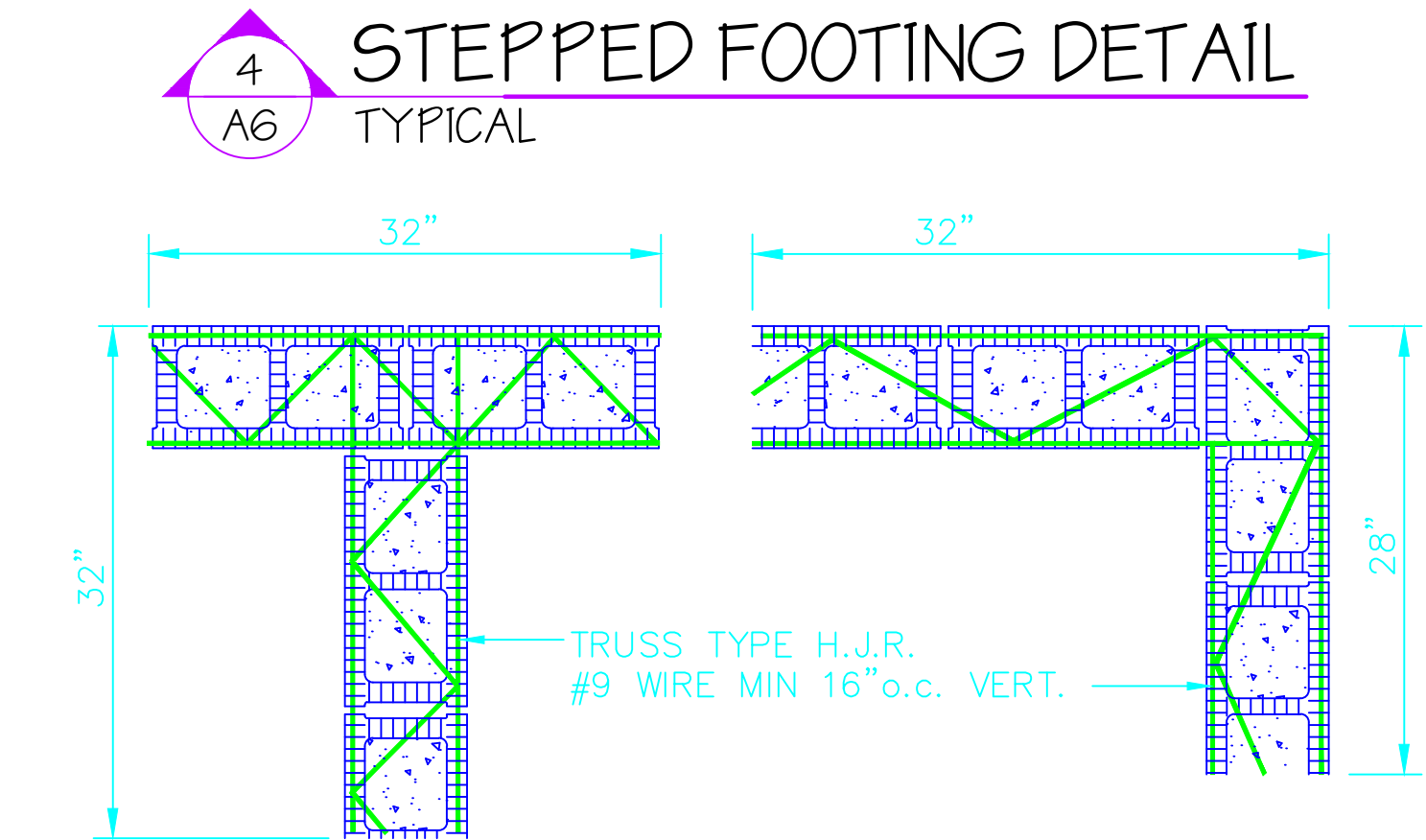
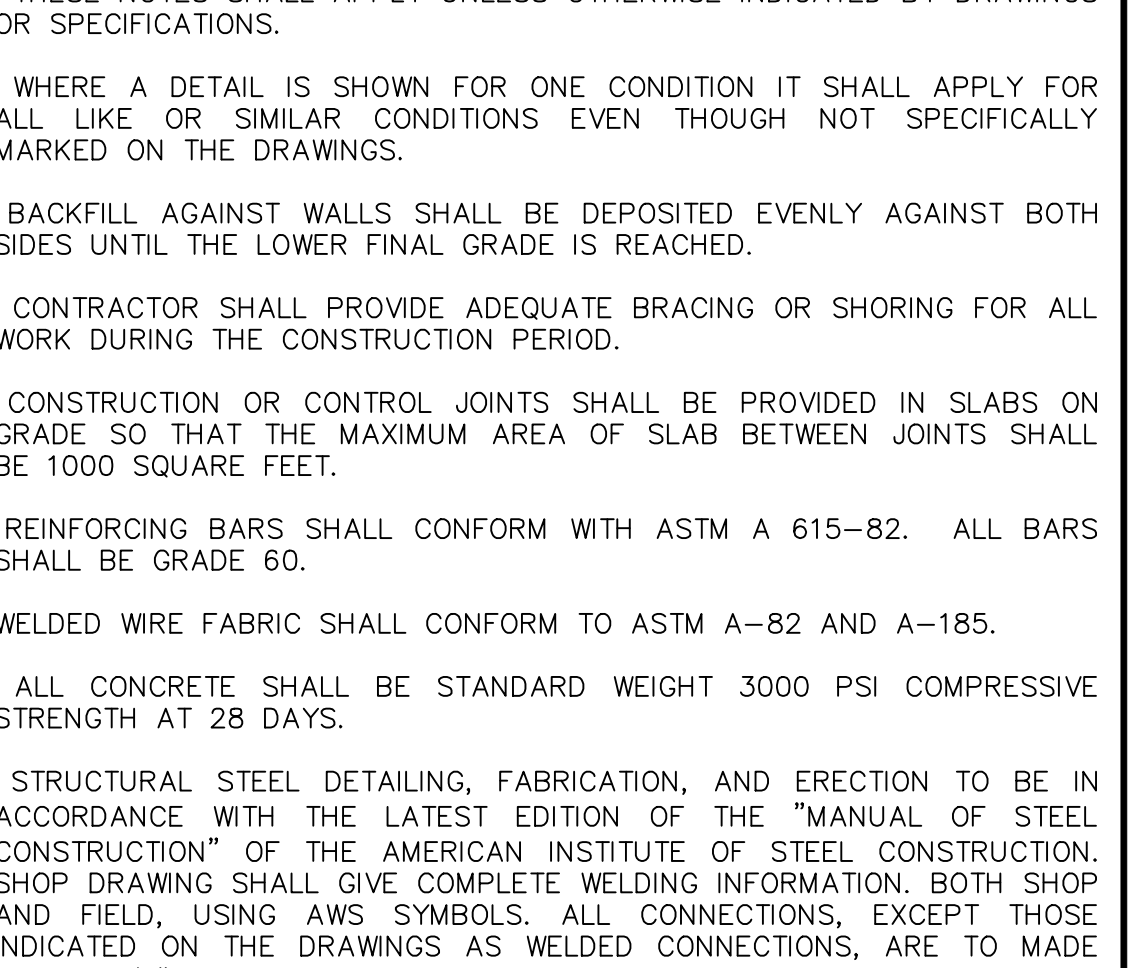
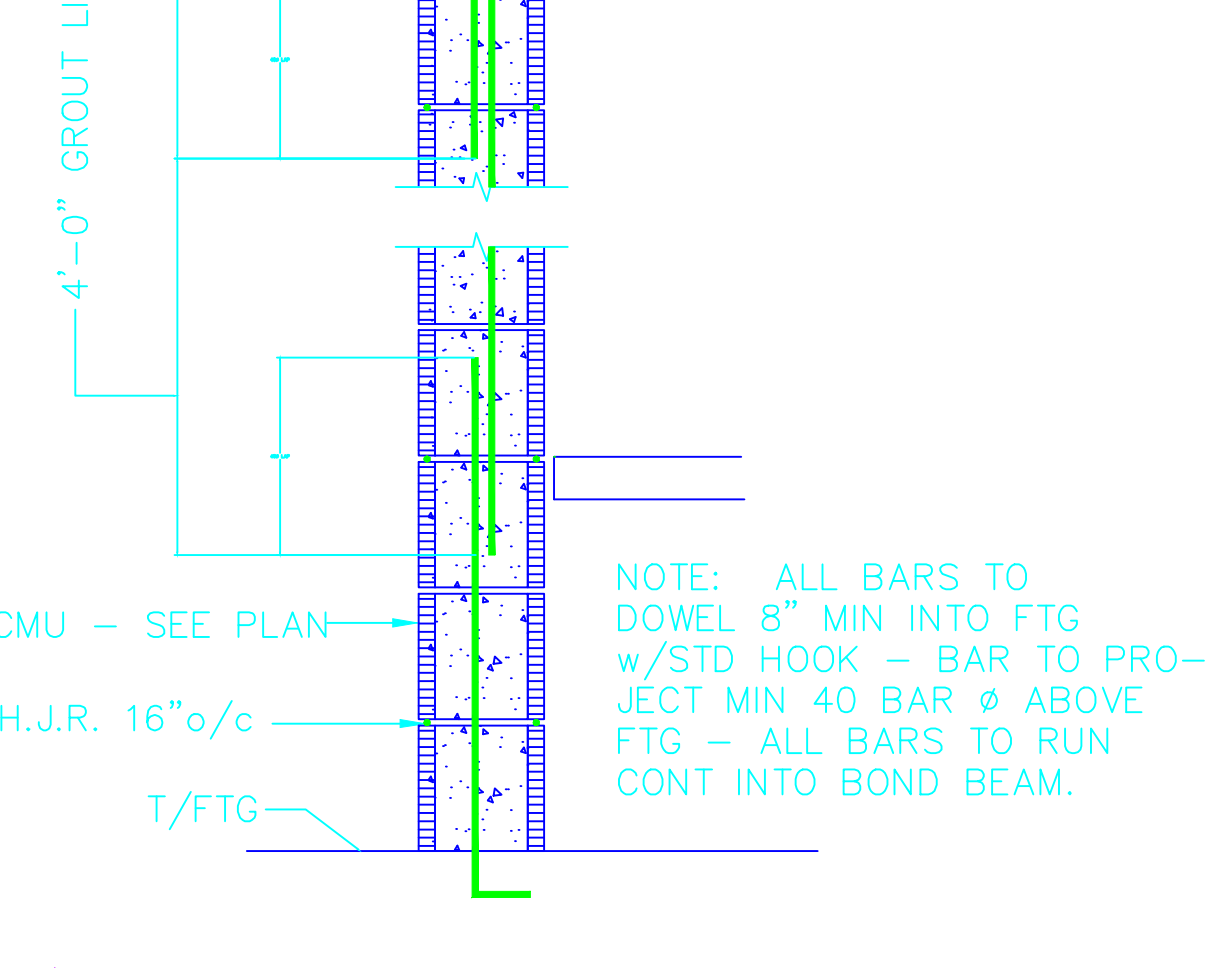
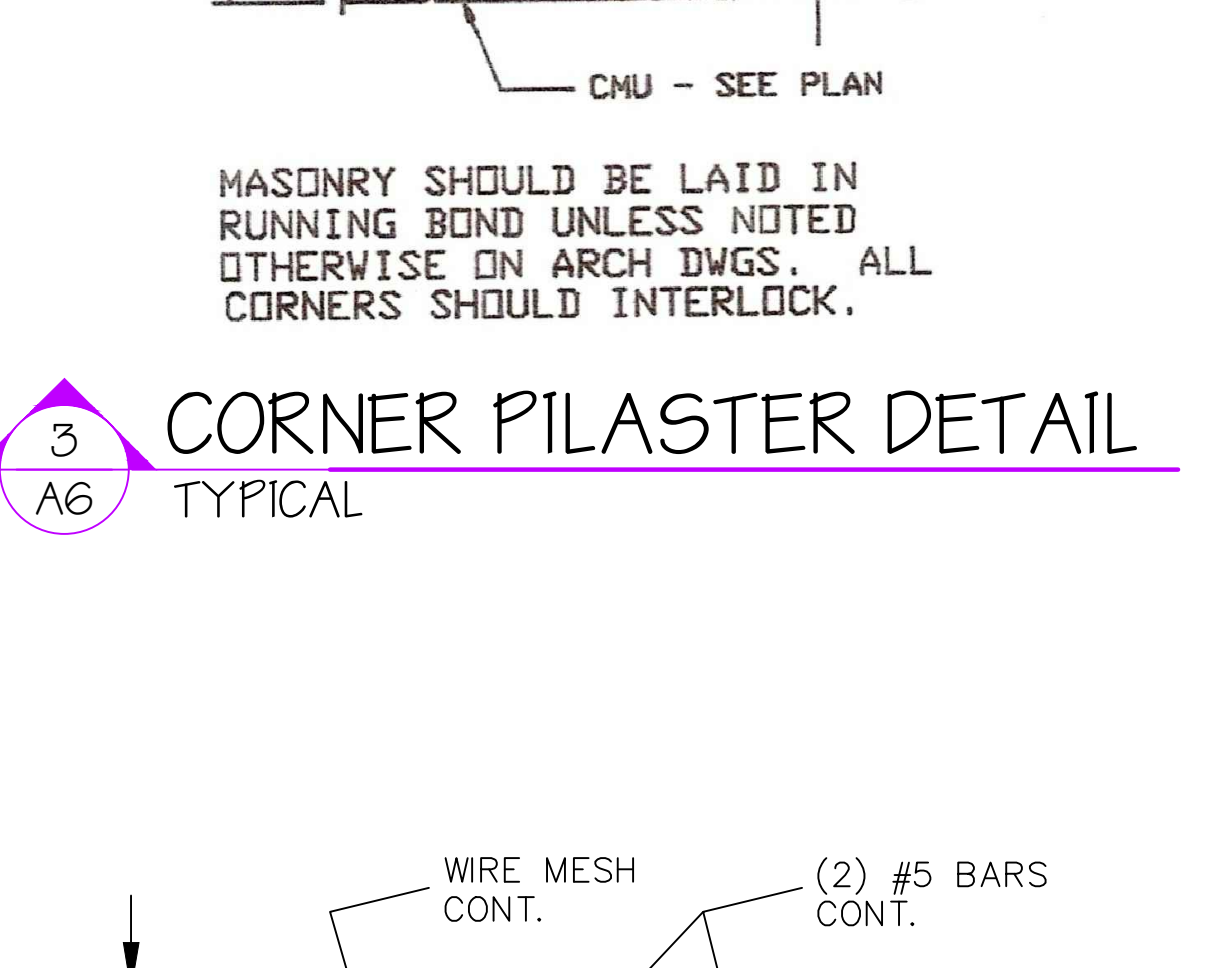
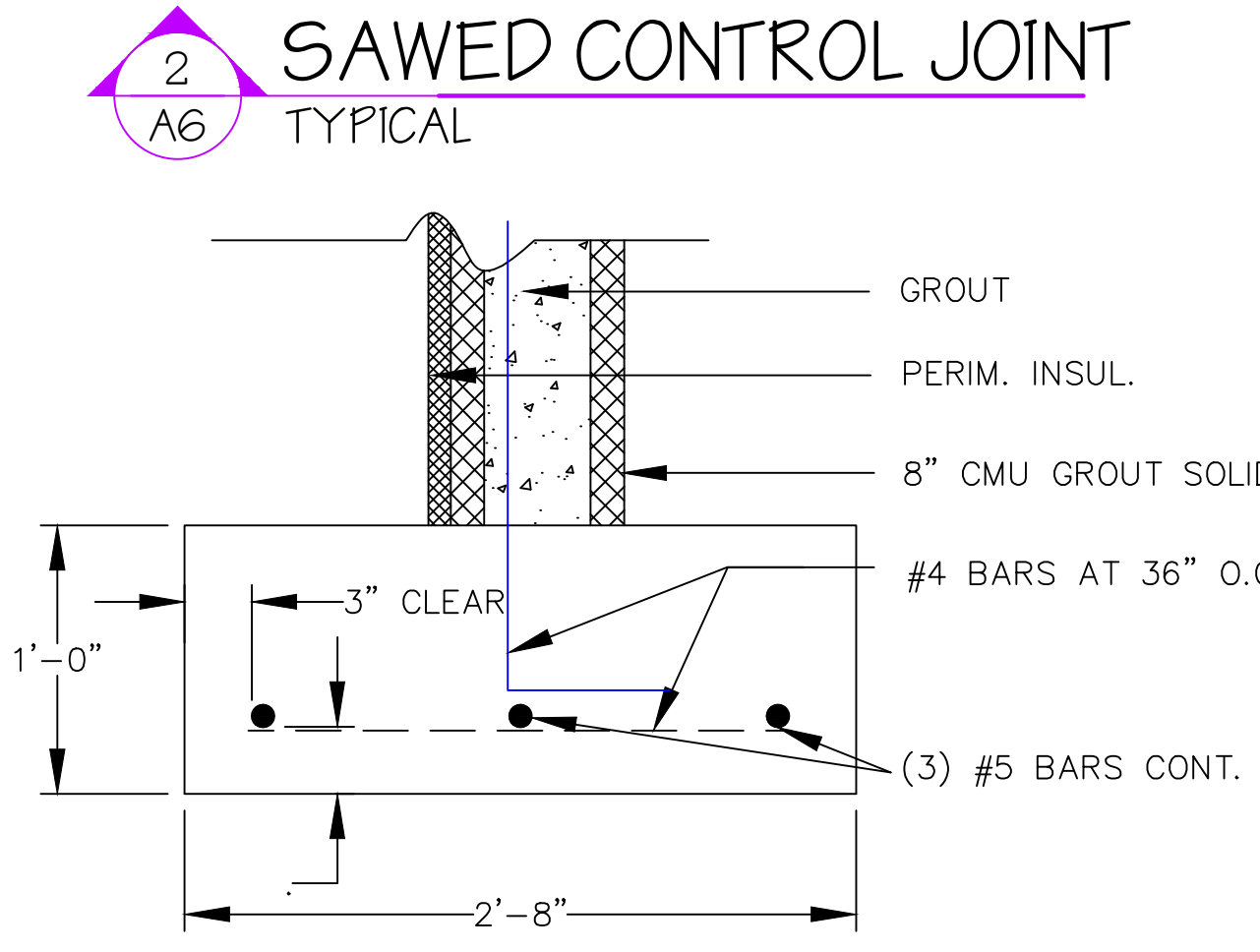
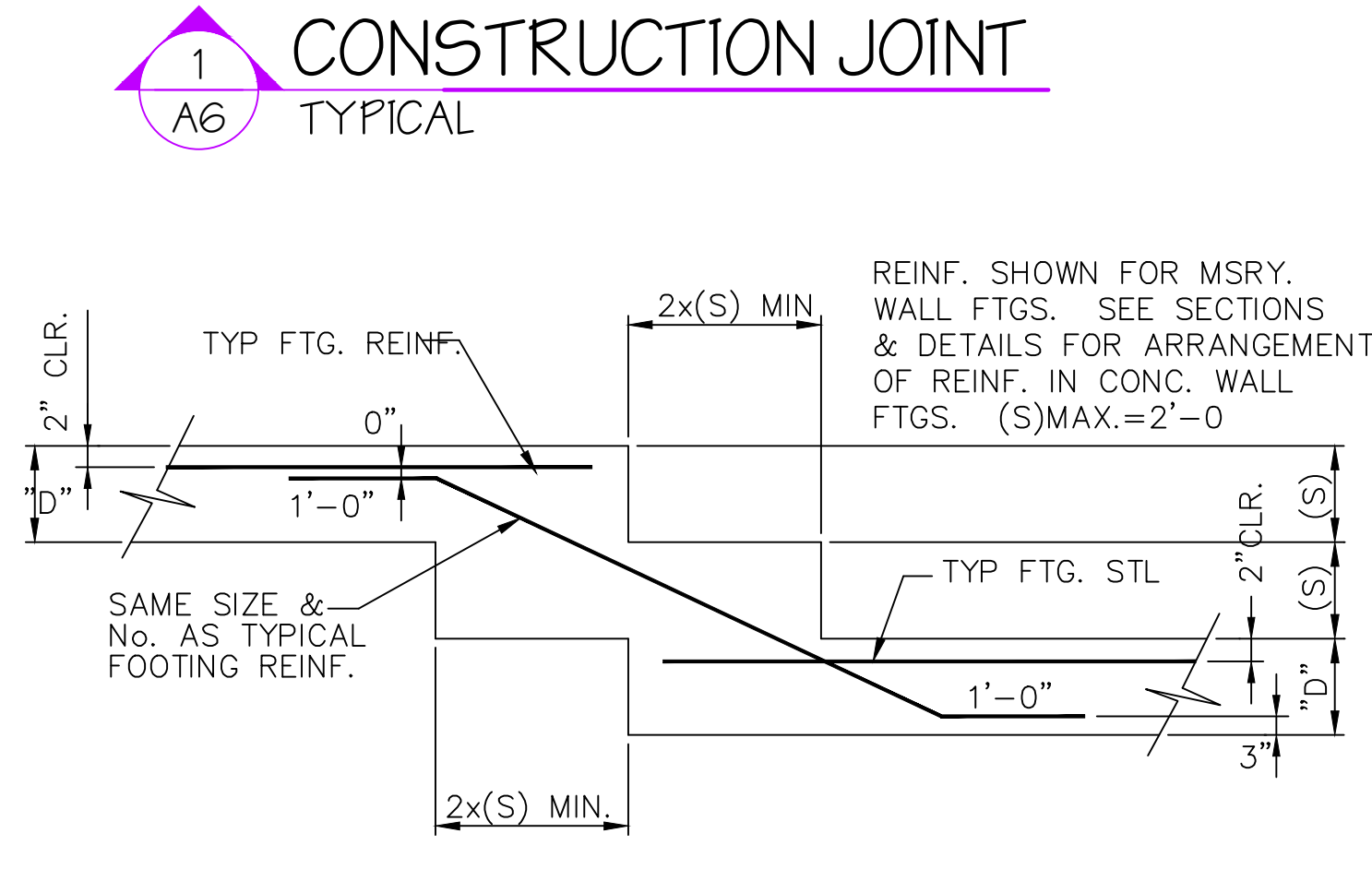
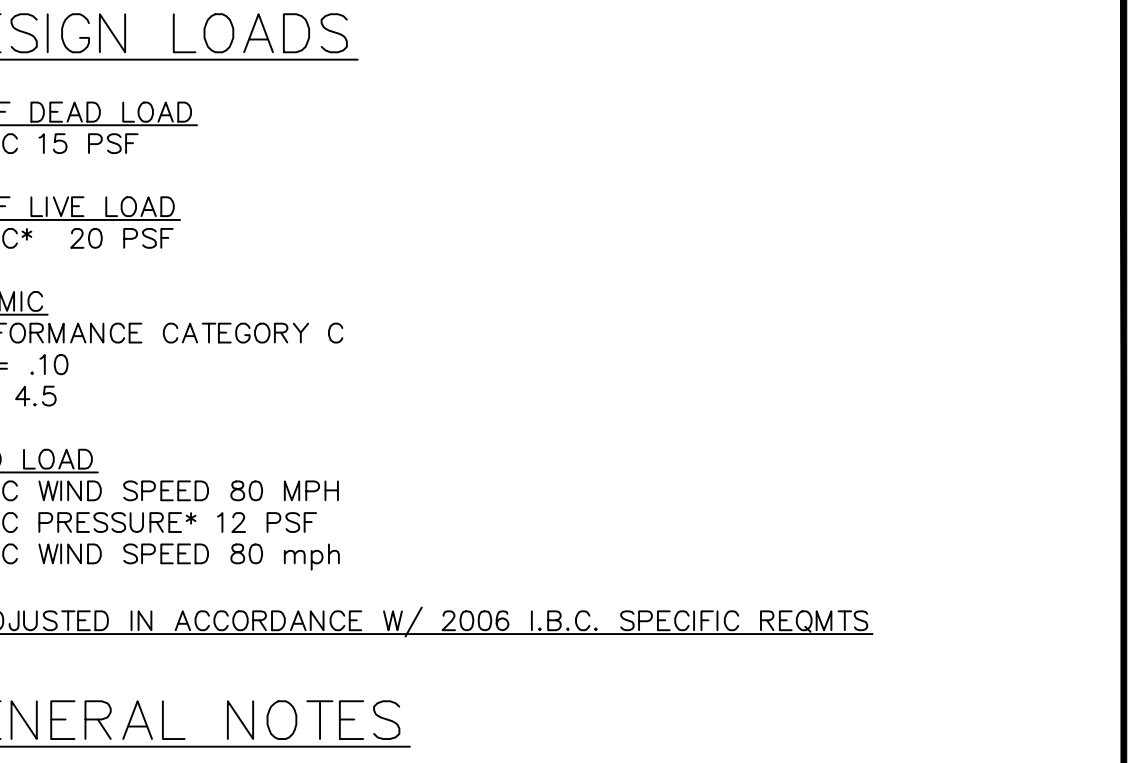
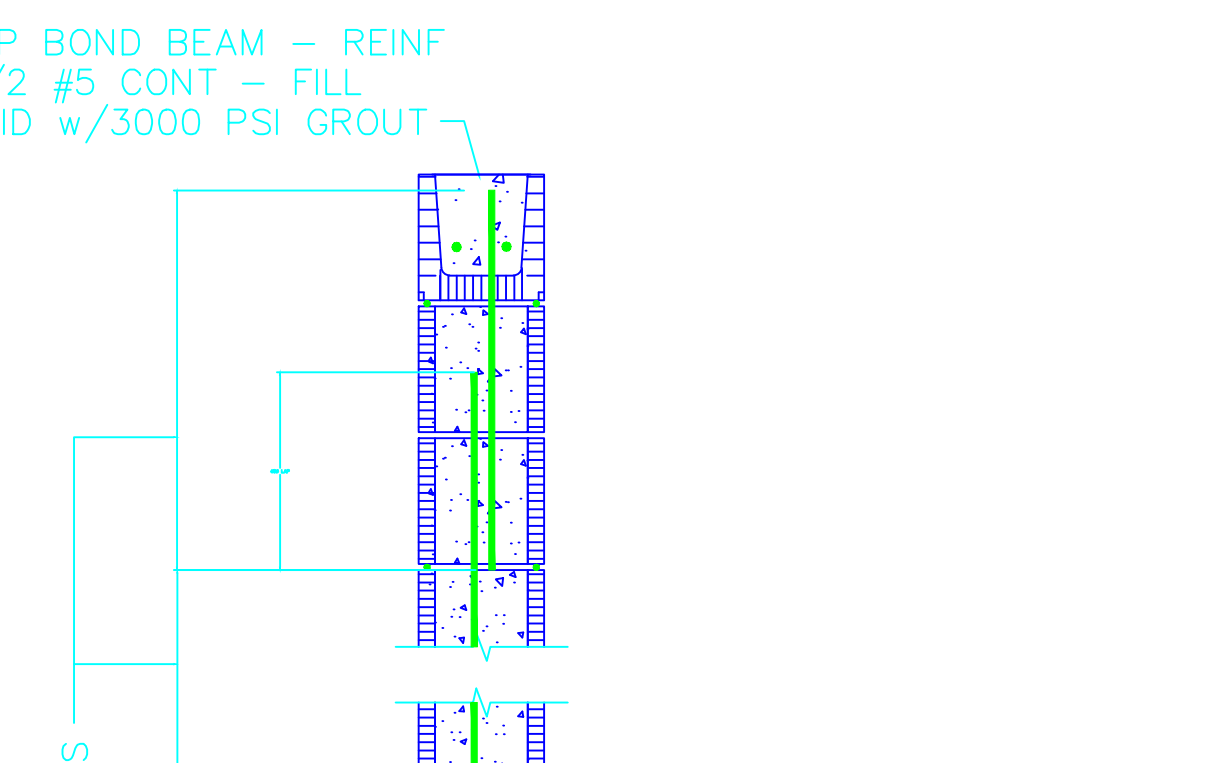
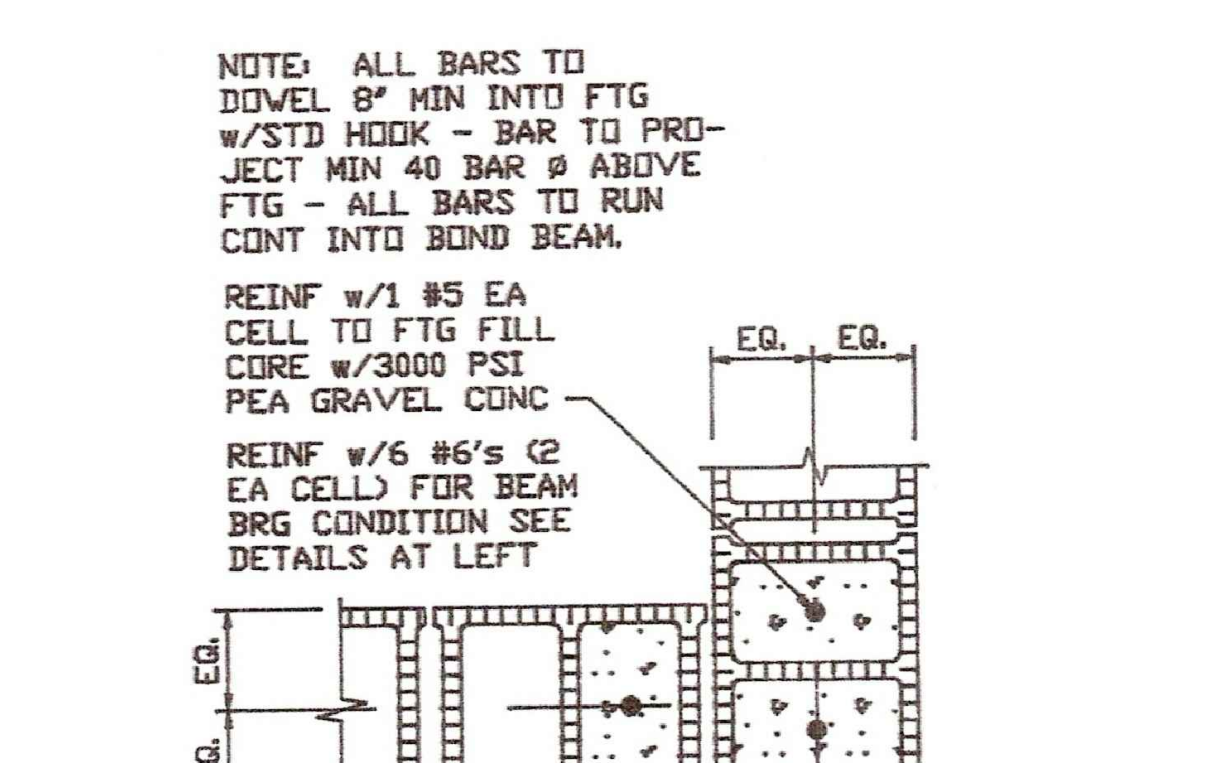
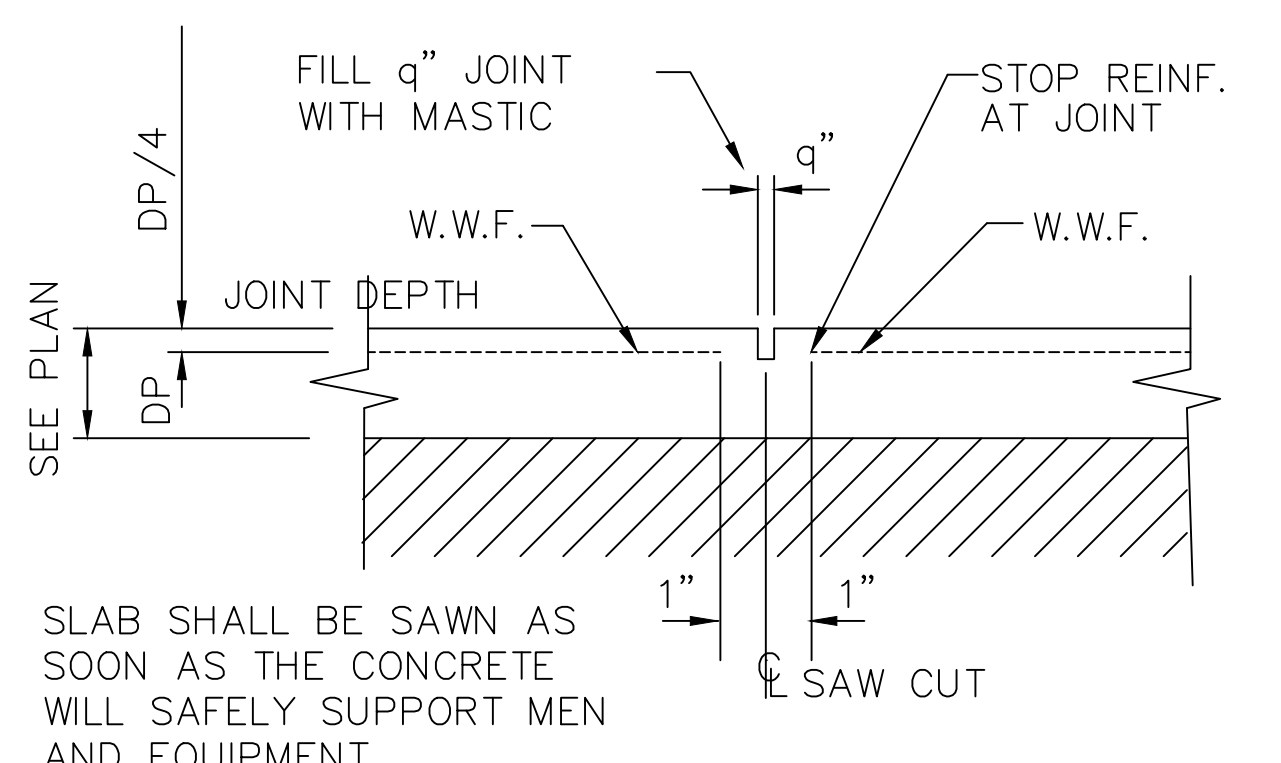
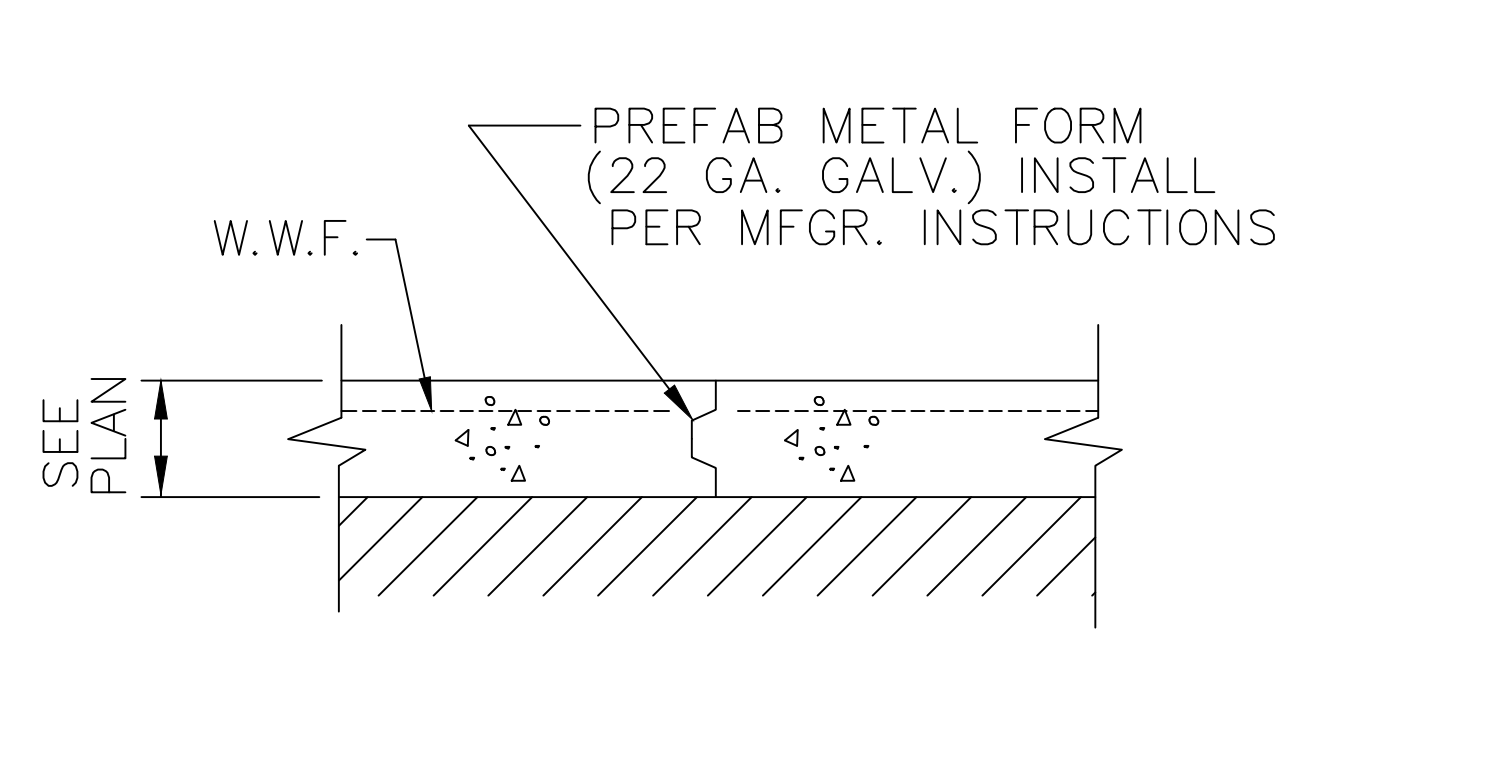
PILASTER SCHEDULE				
MARK	REINFORCEMENT	'a'	'b'	'c'
1		(4) #5's	(1) #5's	-
2		(4) #7's	(1) #5's	#3's @ 8"o.c.
3		(6) #7's	(1) #5's	#3's @ 8"o.c.
4		(8) #7's	(1) #5's	#3's @ 8"o.c.

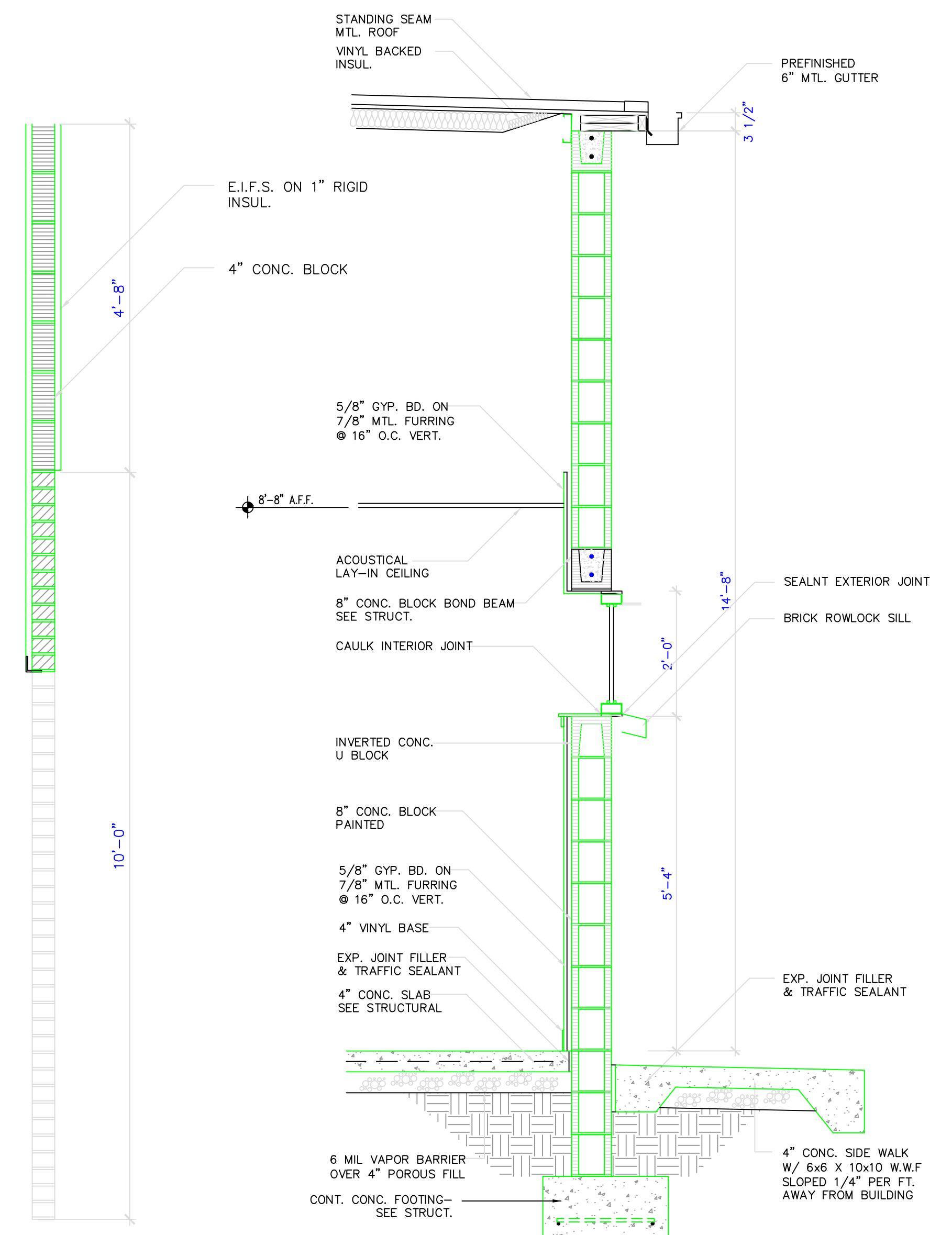
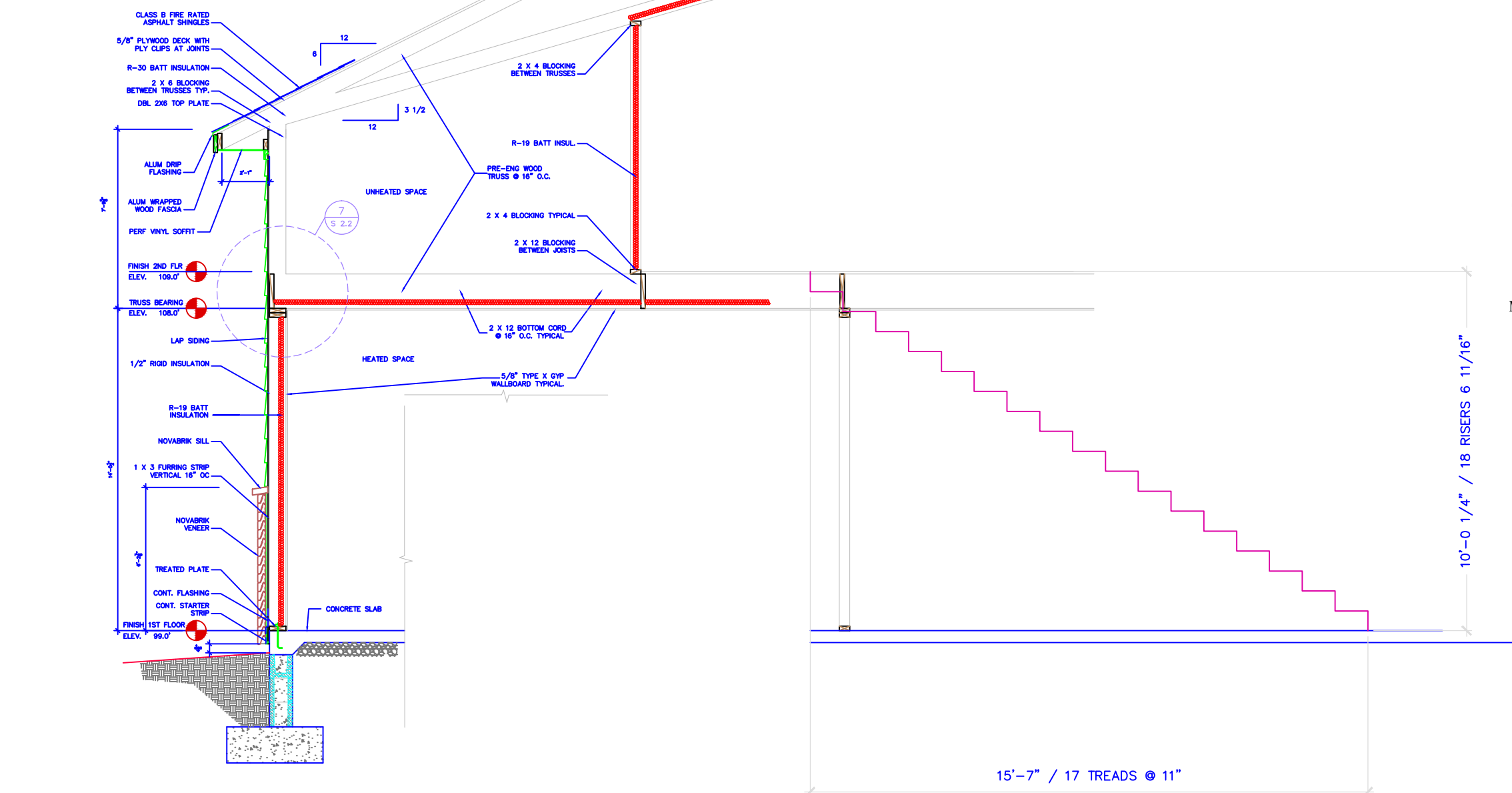
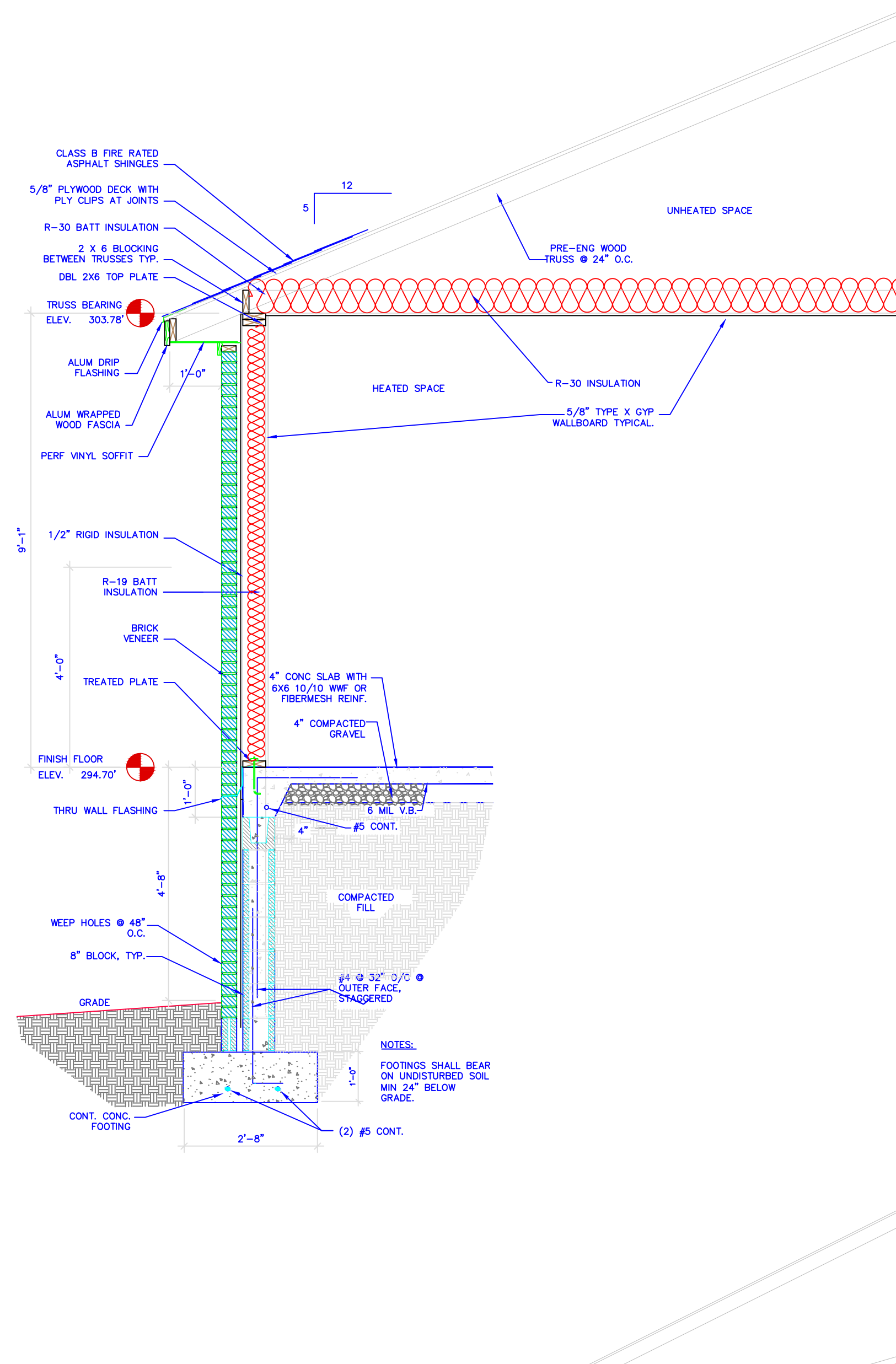
1. BEARING PLATE TO COVER ALL CELLS w/'a' STEEL.

- NOTE:
- 1. WALL REINFORCING: #5 @ 48" O/C, CENTERED.
 - 2. ALL FOOTINGS ARE 1'-0" DEEP UNLESS OTHERWISE NOTED. TOPS OF NEW FOOTINGS TO MATCH ELEVATIONS OF EXISTING.
 - 3. DIMENSIONS ARE TO FACE OF CONCRETE MASONRY UNLESS OTHERWISE NOTED.



FOUNDATION PLAN
ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION





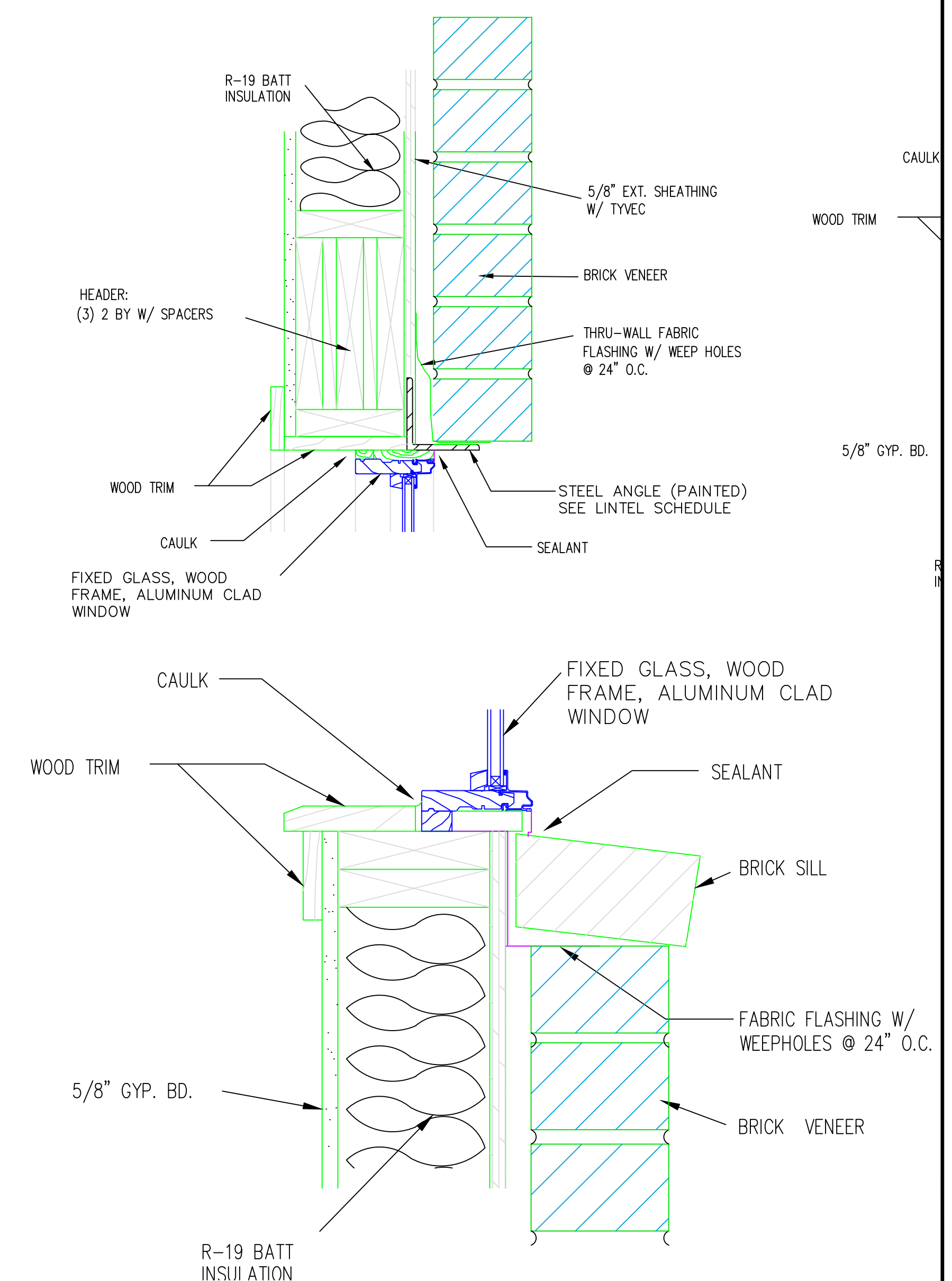
SEE DETAIL
FOR ADDITIONAL
INFORMATION NOT
SHOWN HERE

SEE STRUCTURAL DRAWINGS FOR REQUIRED
SHEAR WALL INSTALLATION DETAILS.

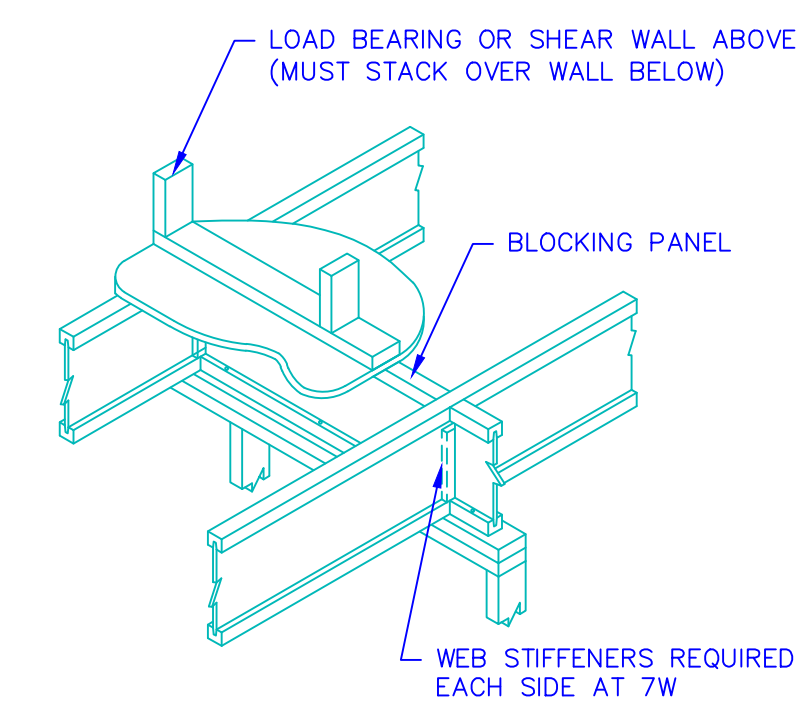
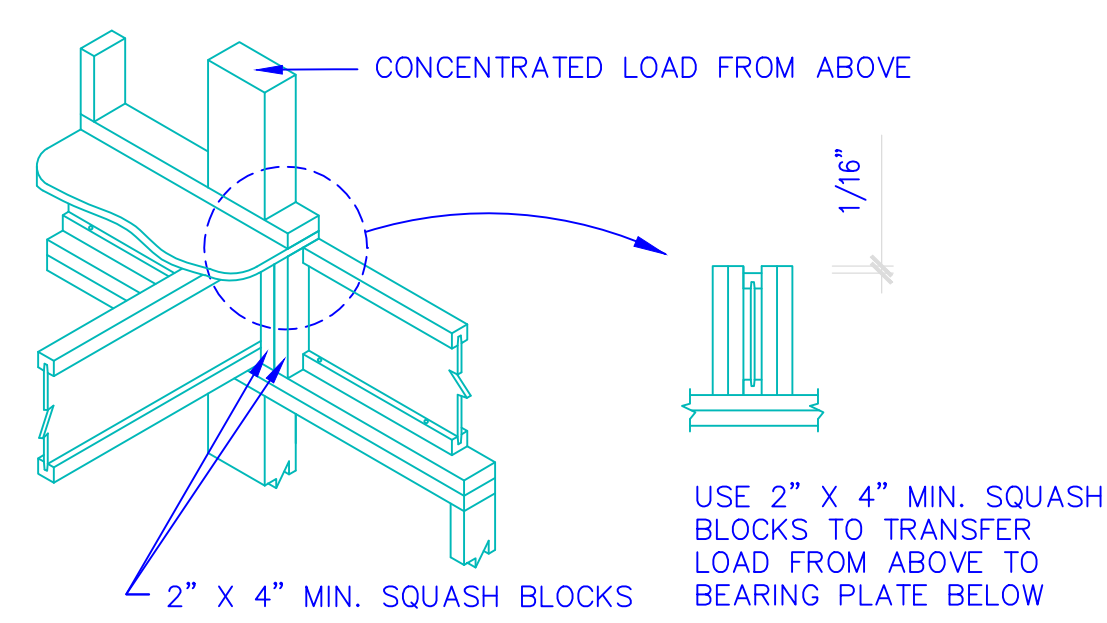
THIS DETAIL DRAWING WAS PROVIDED TO
SUPPLEMENT A/E DOCUMENTS. SEE A/E
CONTRACT DOCUMENTS FOR INFORMATION
NOT SHOWN HERE.

LINTEL SCHEDULE									
OPENING WIDTH		FOR EACH 4" WALL THICKNESS			WALL DIMENSION AND REINFORCING				
MIN.	MAX.	STEEL			CONCRETE BLK. & CONCRETE				
					DEPTH	4" WALL	8" WALL	12" WALL	
---	2'-0"	∠ 3 x 3	1/2 x 1/4	SLV	7 5/8	1#4	1#4 BOT.	1#4 BOT.	
2'-1"	3'-6"	∠ 3 x 3	1/2 x 1/4	SLV	7 5/8	1#4	1#4 BOT.	2#5 BOT.	
3'-7"	5'-0"	∠ 3 x 3	1/2 x 1/4	SLV	7 5/8	1#4	1#5 BOT.	2#5 BOT.	
5'-1"	6'-6"	∠ 3 1/2 x 4	x 1/4	LLV	7 5/8	----	1#7 BOT.	2#6 BOT.	
6'-7"	8'-0"	∠ 3 1/2 x 5	x 1/4	LLV	7 5/8	----	1#8 BOT.	2#7 BOT.	
8'-0"	10'-0"	∠ 3 1/2 x 6	x 5/16	LLV	15 5/8	----	1#8 BOT.	----	

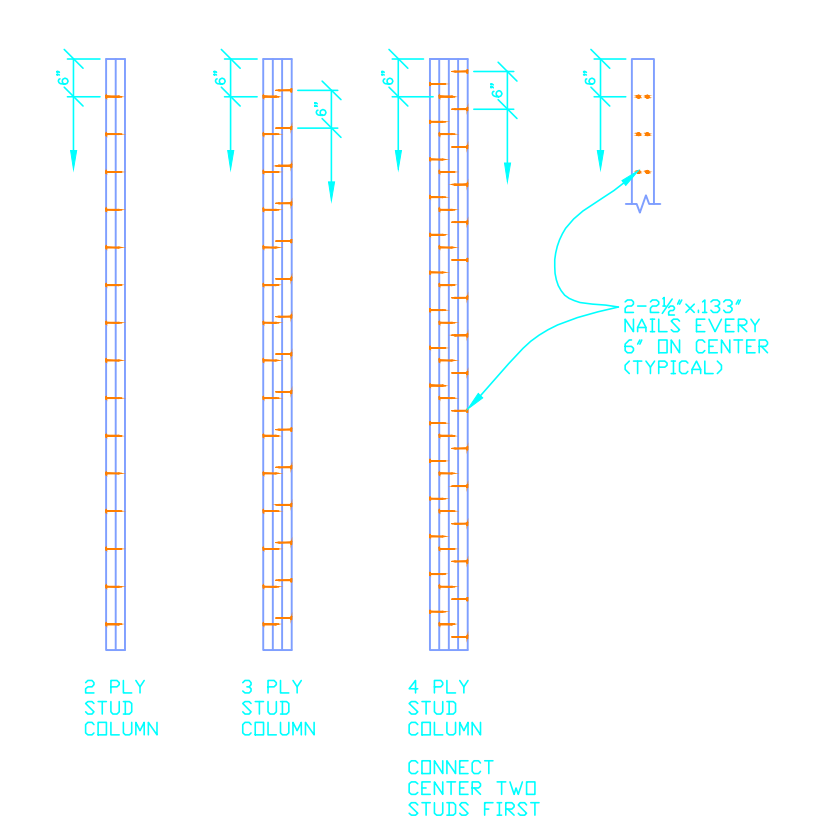
NOTE: DO NOT USE THIS SCHEDULE IF CONCENTRATED LOADS ARE APPLIED. PROVIDE 8" MIN. BEARING EACH END.



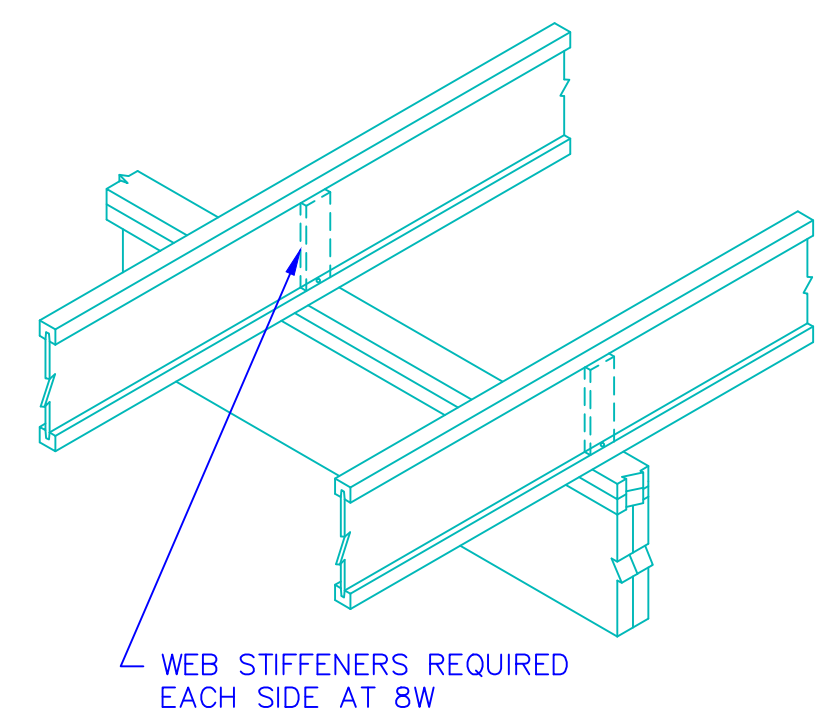
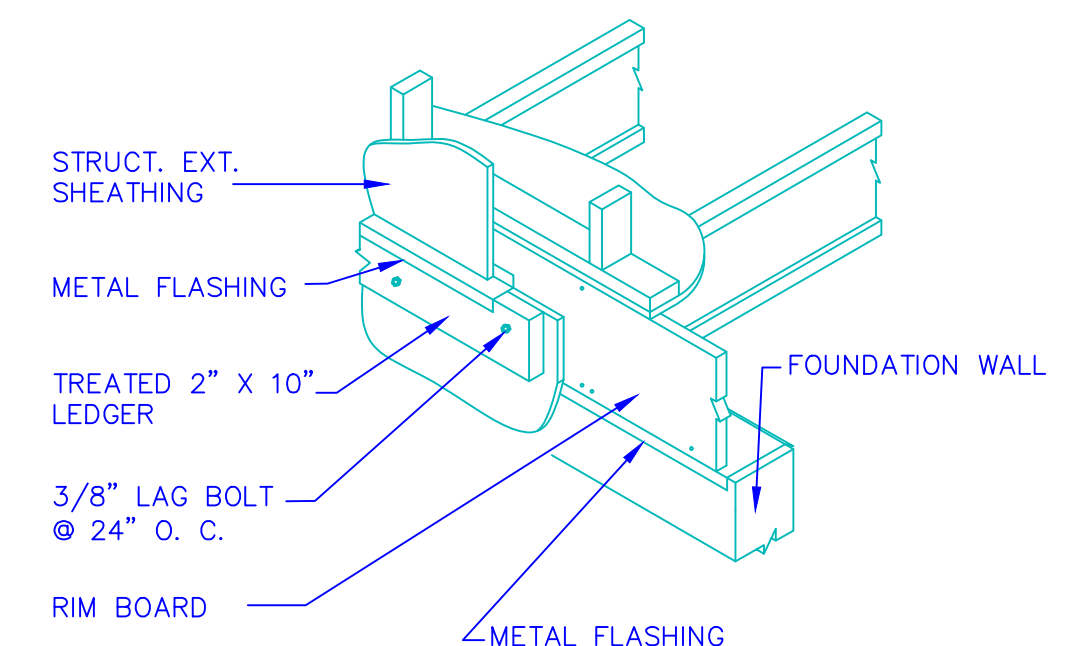
7 WINDOW DETAILS
A8 TYPICAL



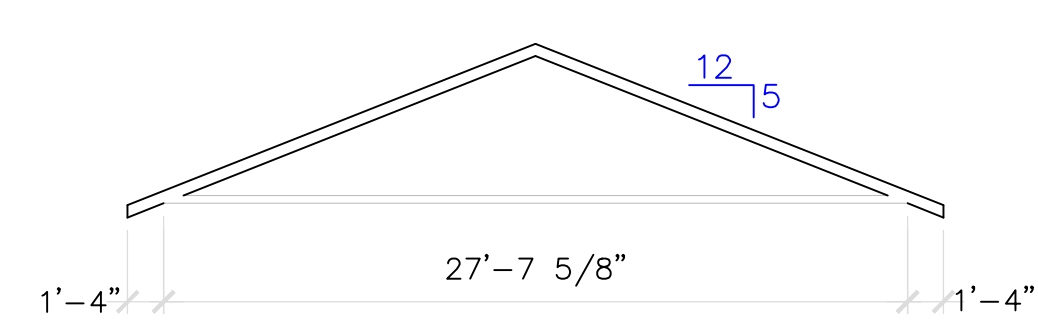
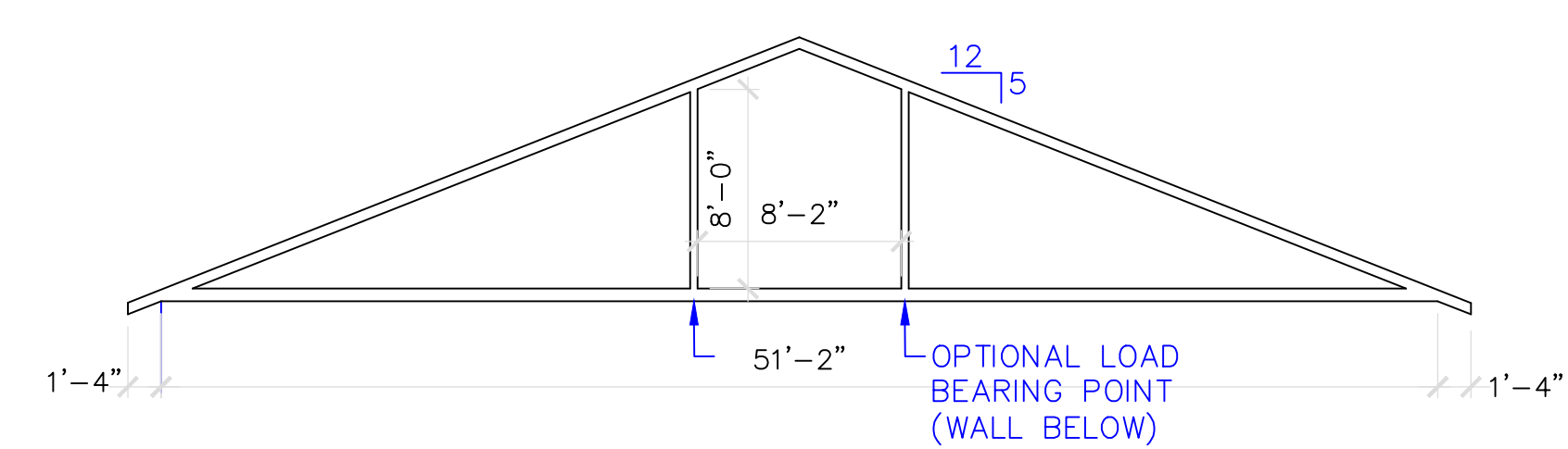
3 JOIST DETAILS
A8 TYPICAL



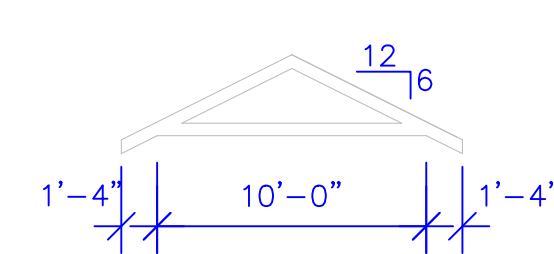
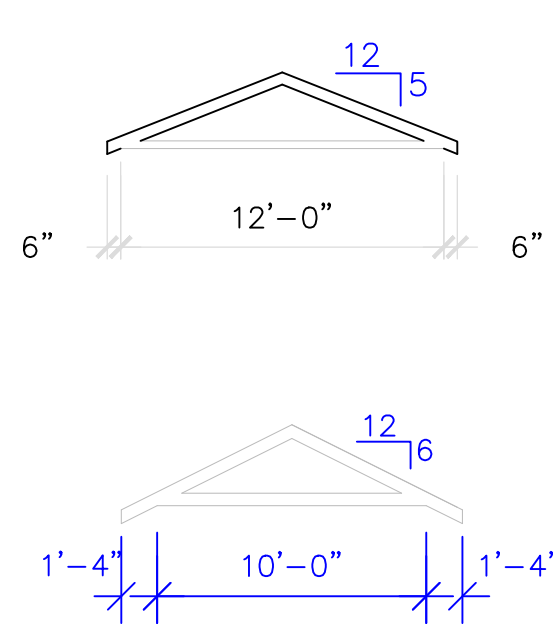
6 STUD DETAILS
A8 TYPICAL



2 FRAMING INTERLOCKS
A8 TYPICAL



5 TRUSS DETAILS
A8 TYPICAL



CARRY 1 HOUR RATED WALL TO BACKSIDE OF EXTERIOR SHEATHING OR NON-RATED WALLBOARD

BASE LAYER: 1/4" GYPSUM WALLBOARD APPLIED PARALLEL TO STUDS W/ 4d COATED NAILS 1-1/2" LONG W/ .099" SHANK & 1/4" HEADS @ 12" O/C.

FACE LAYER: 1/2" TYPE X GYPSUM WALLBOARD APPLIED PARALLEL TO STUDS WITH 1/4" BEADS OF ADHESIVE 2" O/C AND 6d COATED NAILS 1-7/8" LONG W/ 1/4" HEADS @ 6" O/C ACROSS TOP AND BOTTOM ONLY.

2x4 METAL STUDS @ 16" O/C

NOTES:

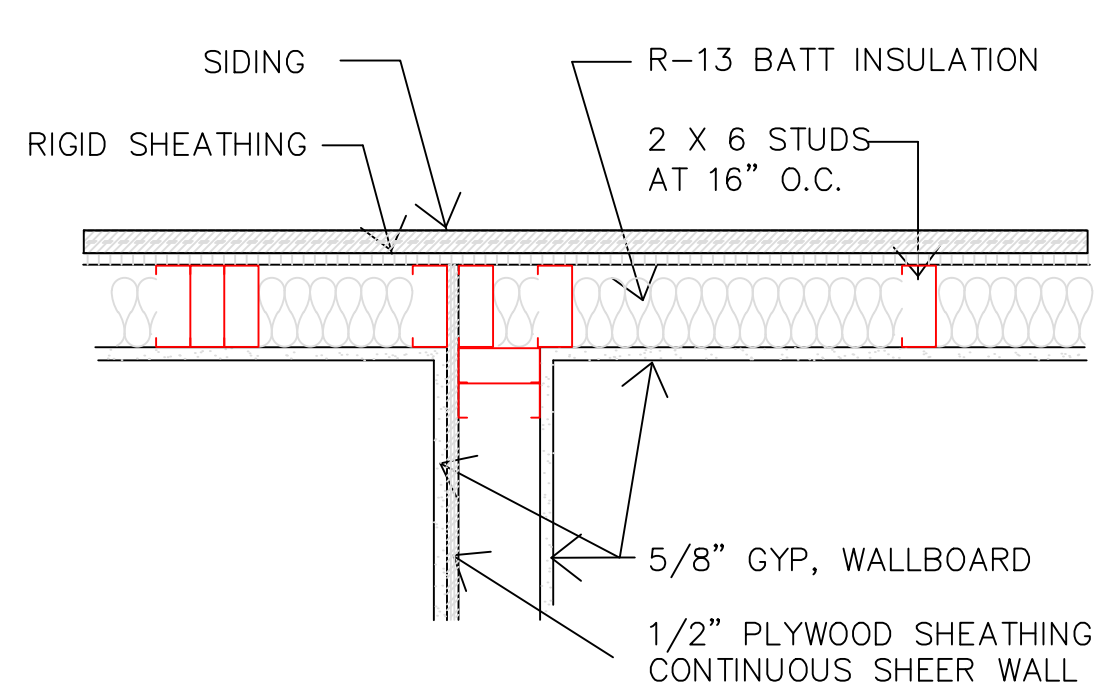
SCREWS MEETING ASTM C1002 OR ASTM C954 MAY BE USED INSTEAD OF NAILS PROVIDED THE SCREWS ARE OF EQUAL OR GREATER HEAD SIZE AND DIAMETER.

STAGGER BASE LAYER JOINTS 16" ON EACH SIDE.

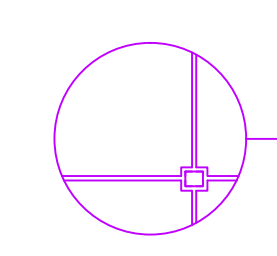
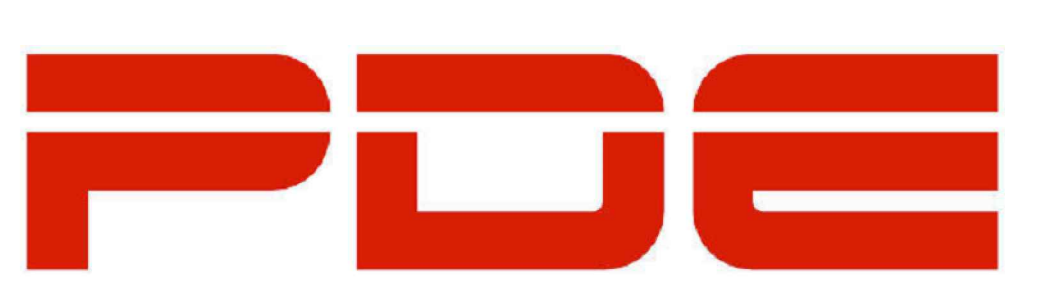
STAGGER FACE LAYER JOINTS 24" FROM BASE LAYER JOINTS.

THIS DETAIL COMPLIES WITH GYPSUM ASSOCIATION FILE NO. WP 3341 AND HAS BEEN TESTED BY FACTORY MUTUAL

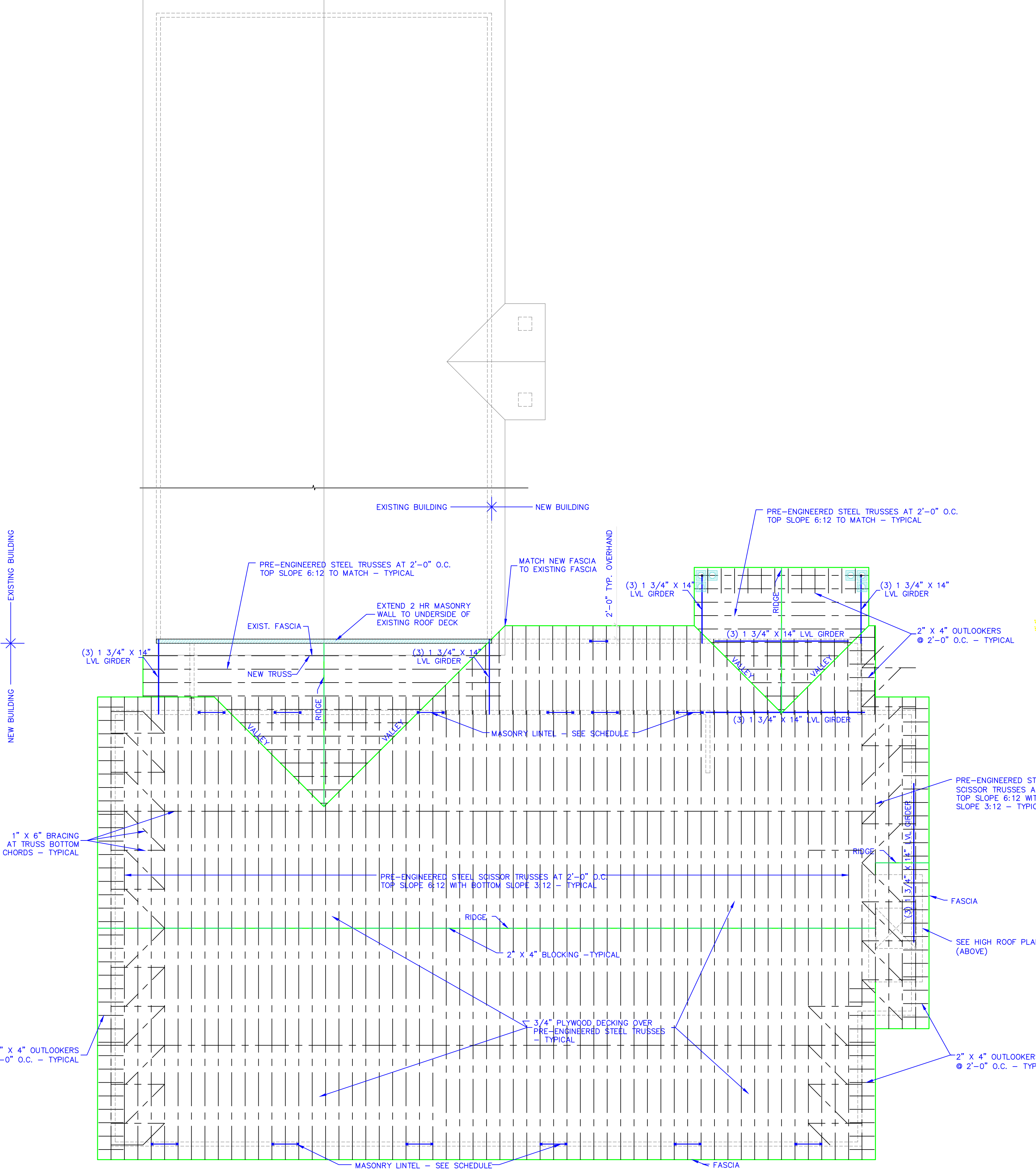
1 FIREWALL DETAILS
A8 TYPICAL



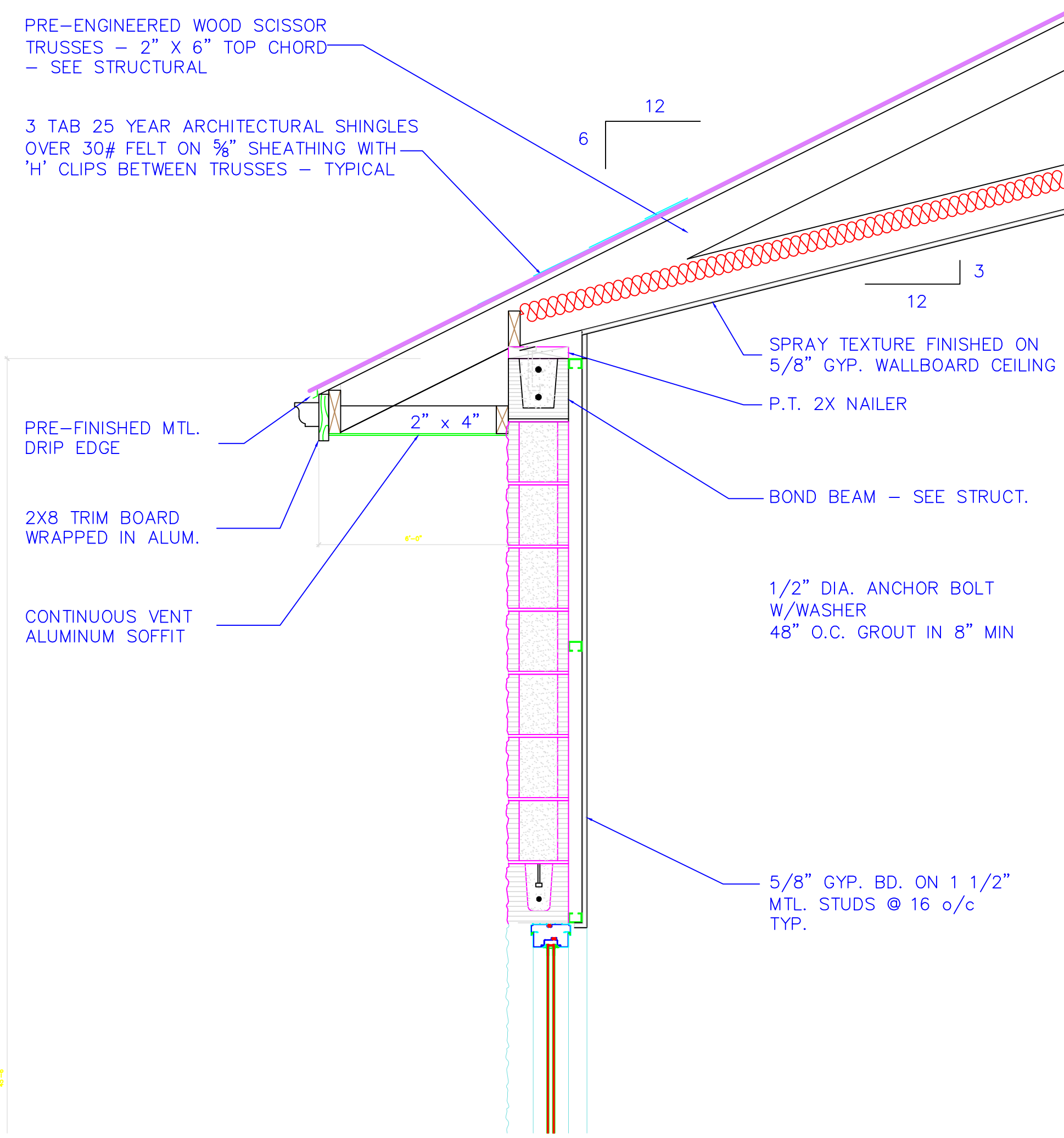
4 EXTERIOR WALL
A8 TYPICAL



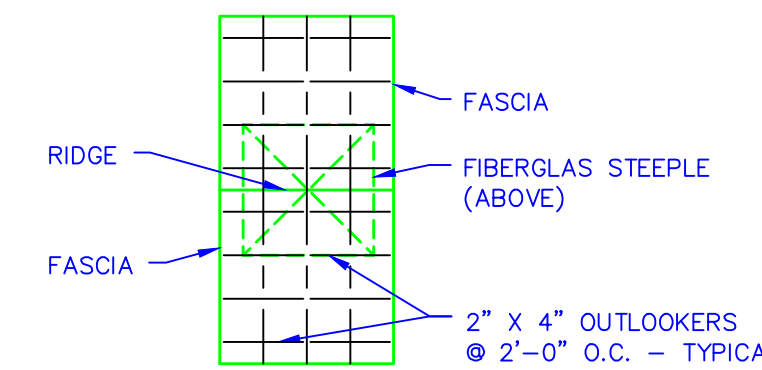
FRAMING DETAIL AND SCHEDULE
ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION



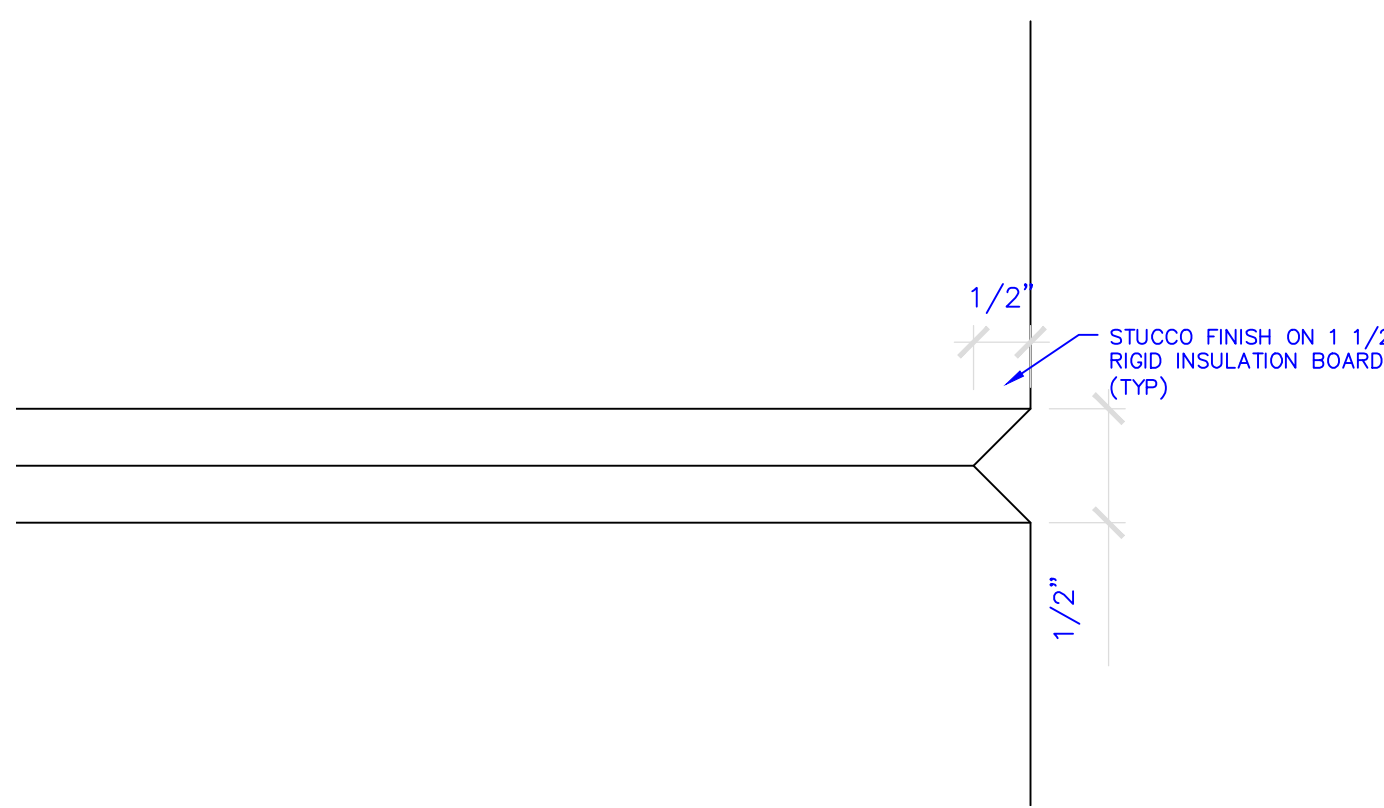
1
A9
MAIN ROOF FRAMING DETAIL
TYPICAL



1
A9
TRUSS AND BEAM JOINT DETAIL
TYPICAL



1
A9
HIGH ROOF FRAMING DETAIL
TYPICAL

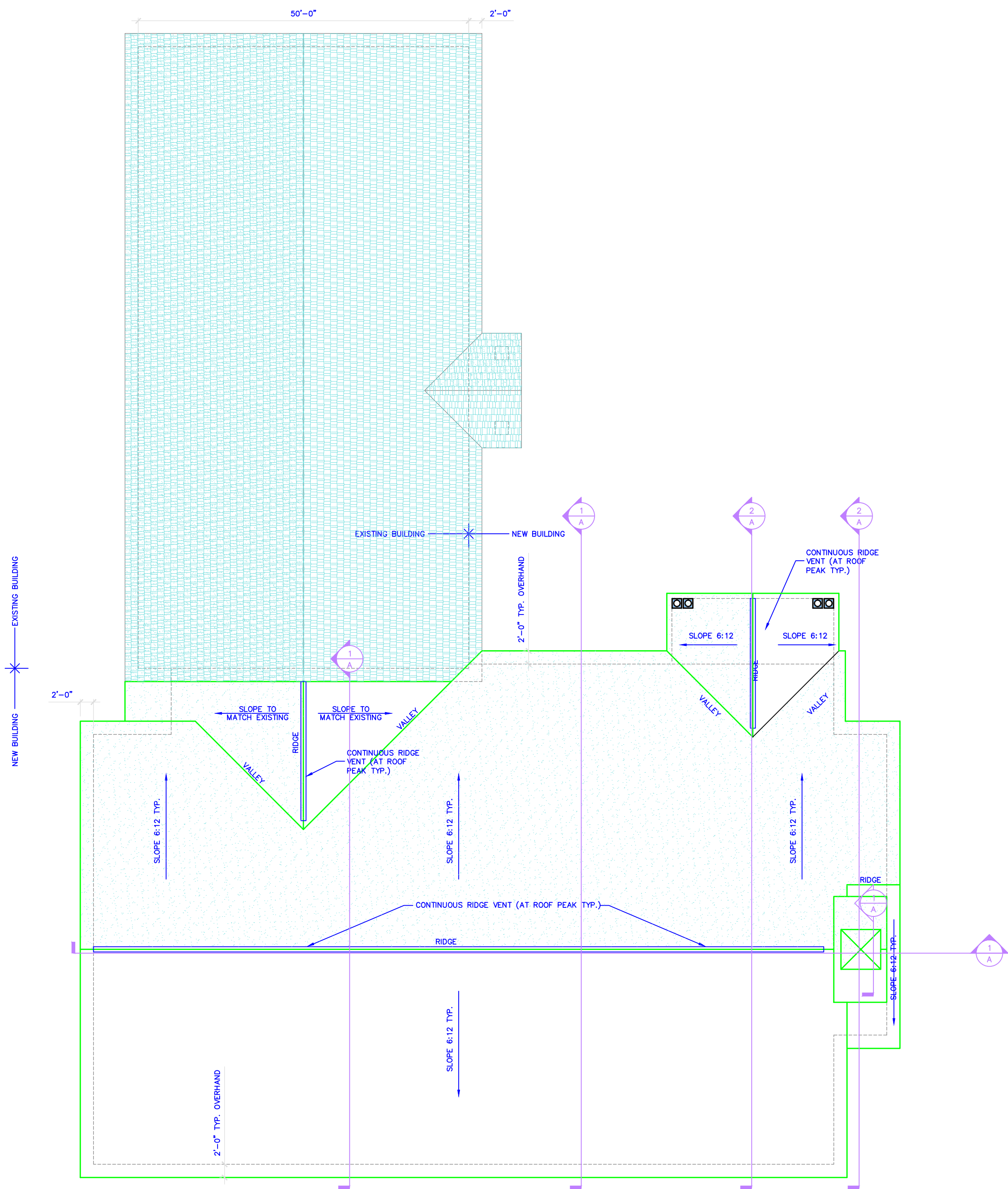


1
A9
SCORE JOINT DETAIL
TYPICAL

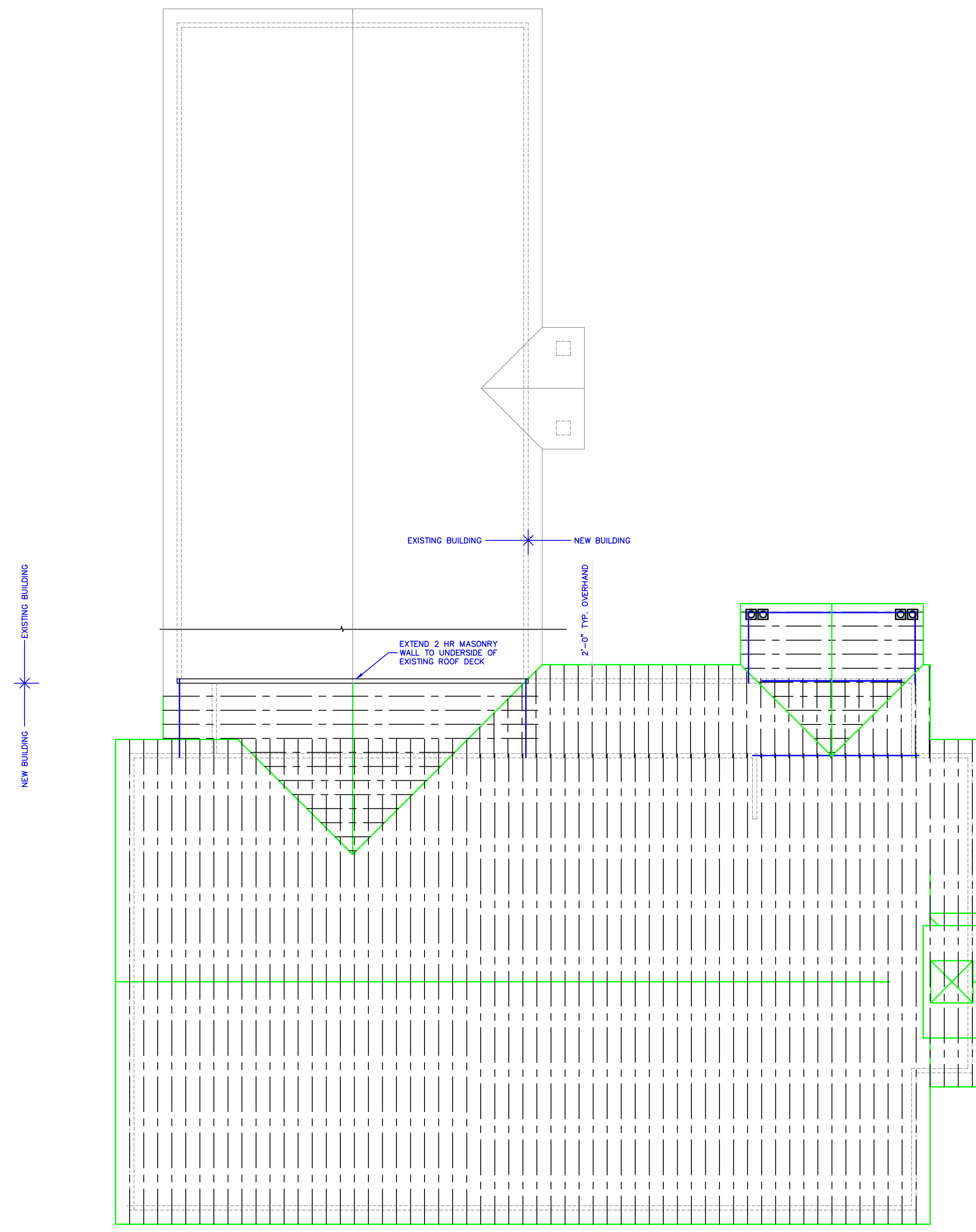
- STRUCTURAL STEEL & BAR JOIST NOTES:**
- A. DESIGN, FABRICATION, & ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE MANUAL OF STEEL CONSTRUCTION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION NINTH EDITION UNLESS OTHERWISE MODIFIED ON THE DRAWINGS OR IN SPECIFICATIONS.
 - B. MATERIAL SHALL MEET THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION UNLESS NOTED:
 - STRUCTURAL STEEL - ASTM A992 (Fy = 50 ksi)
 - ROUND PIPE STEEL - ASTM A53 GRADE B (Fy = 35ksi)
 - TUBE STEEL - ASTM A500 GRADE B (Fy = 46ksi)
 - HIGH STRENGTH BOLTS - ASTM A325-B8A, 3/4" - AWS CLASS E70
 - WELD STEEL - AWS CLASS E70
 - C. ALL SHOP CONNECTIONS SHALL BE WELDED OR MADE WITH HIGH STRENGTH BOLTS UNLESS NOTED SPECIFICALLY.
 - D. FIELD CONNECTIONS SHALL BE MADE WITH 3/4" HIGH STRENGTH BOLTS. FIELD WELDING WILL BE ALLOWED ONLY WHERE NOTED ON THE DRAWINGS AND DETAILS.
 - E. ALL HIGH STRENGTH BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH THREADS INCLUDED IN THE SHEAR PLANE UNLESS NOTED.
 - F. ALL HIGH STRENGTH FIELD BOLTED CONNECTIONS SHALL BE TIGHTENED BY THE "TURN-OF-THE-NUT" METHOD AS SPECIFIED IN "THE ALLOWABLE STRESS DESIGN SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
 - G. FRAMED BEAM CONNECTIONS SHALL DEVELOP THE REACTION SHOWN ON ENDS OF BEAMS ON STRUCTURAL PLANS. IN NO CASE SHALL THE LENGTH OF THE BEAM WEB, WHERE REACTIONS ARE NOT SHOWN, THE CONNECTION SHALL DEVELOP ONE-HALF THE ALLOWABLE UNIFORM LOAD FOR LATERALLY SUPPORTED BEAMS AS SHOWN IN TABLES IN PART 2 OF THE AISC MANUAL.
 - H. ALL STRUCTURAL STEEL BELOW GRADE SHALL BE ENCASED WITH A MINIMUM OF 4" CONCRETE COVER OR PAINTED WITH A COAL TAR
 - I. JOIST AND JOIST GIRDERS SHALL CONFORM TO THE STEEL JOIST INSTITUTE STANDARDS.
 - J. WELD JOISTS TO STEEL SUPPORTS WITH 1/8" x 2" LONG FILLET WELDS EACH SIDE OF JOIST BEARING PLATE, OR BOLT WITH (2) 1/2" A325N BOLTS.
 - K. WHERE OPEN-WEB JOISTS FRAME PARALLEL TO BEAMS AND WALLS, EXTEND ALL JOISTS BRIDGING AND CONNECT TO BEAMS AND WALLS. EXTEND BOTTOM CHORD OF JOISTS AT COLUMN LINE AND CONNECT FULL STRENGTH TO COLUMNS. EXTEND BOTTOM CHORD OF OTHER JOISTS AS SHOWN ON DRAWINGS OR AS REQUIRED BY JOIST GIRDER SUPPLIER.
 - L. SUSPENSION OF ANY MISC. ITEMS FROM JOISTS OR TRUSSES SHALL BE ONLY AT TOP CHORD PANEL POINTS, OR AS DETAILED WITH WEB REINFORCEMENT. ABSOLUTELY NOTHING SHALL BE SUSPENDED FROM BAR JOIST OR JOIST GIRDER BRIDGING.
 - M. LOCATE BEAMS AND BAR JOIST TO CLEAR STACKED HVAC UNITS, TOILET, WASTE LINES, AND DRAINS
 - N. PROVIDE DOUBLE JOIST UNDER ALL ROOF MOUNTED MECHANICAL UNITS. CONTRACTOR SHALL VERIFY ACTUAL SIZE, WEIGHT AND LOCATION OF ROOF TOP UNITS AND SUBMIT TO PROJECT ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF BAR JOIST OR STRUCTURAL STEEL.

- METAL STUDS NOTES:**
- 1. UNLESS NOTED OTHERWISE THE FOLLOWING SHALL APPLY
 - 2. MINIMUM YIELD STRENGTH FOR 20ga AND 18ga STUDS SHALL BE 33 ksi. MINIMUM YIELD STRENGTH FOR 16ga, 14ga, AND 12ga STUDS SHALL BE 50 ksi
 - ALL TRACKS SHALL BE 33 ksi - WIND STRAPS ARE BASED ON THE USE OF 40,000 psi FY MIN
 - 3. ALL STUDS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A C-60 GALVANIZED COATING MEETING THE REQUIREMENTS OF A.S.T.M. A525.
 - 4. BOTH STUD FLANGES MUST BE FASTENED TO TRACK AT TOP AND BOTTOM AS SHOWN ON DRAWINGS.
 - 5. PANELS MUST BE FABRICATED WITH WELDS. WELDS SHALL BE PERFORMED BY OPERATORS QUALIFIED IN ACCORDANCE WITH SECTION 6.0 OF THE AMERICAN WELDING SOCIETY'S "STRUCTURAL WELDING CODE - SHEET METAL (AWS D1.3-8)
 - 6. ALL WELDS SHALL BE TOUCHED UP WITH ZINC RICH PAINT.
 - 7. STUDS SHALL HAVE FULL BEARING AGAINST INSIDE TRACK WEB PRIOR TO ATTACHMENT AT BOTH ENDS - NO SPLICES, CUTS OR NOTCHES PERMITTED AT LOAD BEARING STUDS.
 - 8. AT TRACK BUTT JOINTS, ABUTTING PIECES OF TRACK SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, OR THEY SHALL BE BUTT-WELDED OR SPLICED TOGETHER
 - 9. A MINIMUM OF 10" OF UN-PUNCHED STEEL IS REQUIRED AT BOTH ENDS OF STUDS
 - 10. BRIDGING SHALL BE 1.5" CRC PLACED THROUGH PUNCH OUTS AND WELDED ON BOTH SIDES. BRIDGING IS TO BE SPACED AT NO MORE THAN 3'-6" VERTICALLY AT APPROXIMATELY THE THIRD POINT - CRC BRIDGING IN 6" STUDS REQUIRE A CLIP ANGLE AT EACH CONNECTION LOCATION
 - 11. USE THREE (3) STUDS AT THE CORNER OF ALL EXTERIOR WALLS. USE THREE (3) STUDS AT THE INTERSECTION OF ALL LOAD BEARING WALLS (EXTERIOR AND/OR INTERIOR)
 - 12. ALL MULTIPLE STUD GROUPS SHALL BE WELDED TOGETHER WITH 1" OF WELD @ 12" O.C. MAX. ON BOTH FACES.
 - 13. TRACKS SHOWN @ BOTTOM OF DOOR OPENINGS ARE FOR EASE OF HANDLING AND MAY BE REMOVED IN AREA OF DOOR AFTER PANEL IS ERECTED
 - 14. THE DRYWALL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ADDING ANY METAL STUDS, BLOCKING, OR FURRING THAT MAY BE NEEDED FOR DRYWALL ATTACHMENT
 - 15. ALL STUD WALLS SHALL EXTEND TO BOTTOM OF STRUCTURE ABOVE.
 - 16. STUDS MUST BE INSTALLED UNDER ALL JOIST BEARING LOCATIONS.
 - 17. THE FOLLOWING STRUCTURAL PROPERTIES SHALL APPLY SEE SCHEDULE.

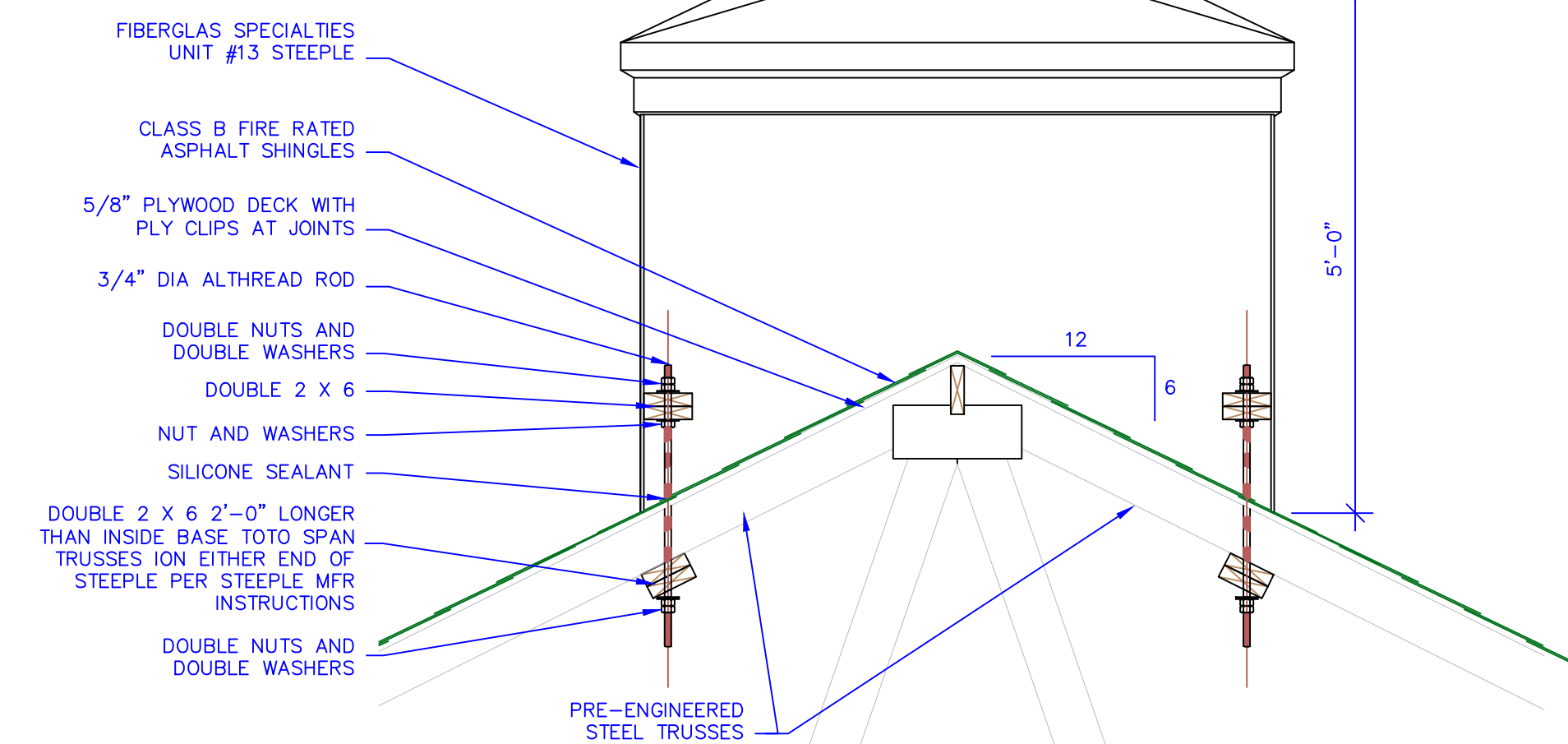
- FASTENER NOTES:**
- A. ALL POWDER ACTUATED FASTENERS (P.A.F.) TO BE .145" SHANK DIAMETER x 1 1/4" LONG HILTI X-DNI 32 P8.
 - B. ALL EXPANSION ANCHORS TO BE HILTI KWIK BOLT II
 - 5/8" - MIN. EMBED = 4"
 - 3/4" - MIN. EMBED = 4 3/4"
 - 1" - MIN. EMBED = 6"
 - C. ALL SLEEVE ANCHORS TO BE HILTI CARBON STEEL SLEEVE ANCHORS. 1/2" - MIN. EMBED = 1 1/2"
 - D. ALL EPOXY ANCHORS TO BE HILTI HIT HY150 ADHESIVE ANCHORS.
 - 5/8" - MIN. EMBED = 5"
 - 3/4" - MIN. EMBED = 6 5/8"
 - 7/8" - MIN. EMBED = 7 1/2"
 - 1" - MIN. EMBED = 8 1/4"
 - E. ALL FASTENERS ARE SIZED PER HILTI SPECIFICATIONS. ALL FASTENERS MAY BE SUBSTITUTED BY AN EQUIVALENT THAT MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL.



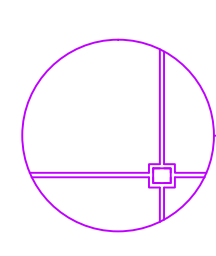
1
A10
EXTERIOR ROOF PLAN
TYPICAL



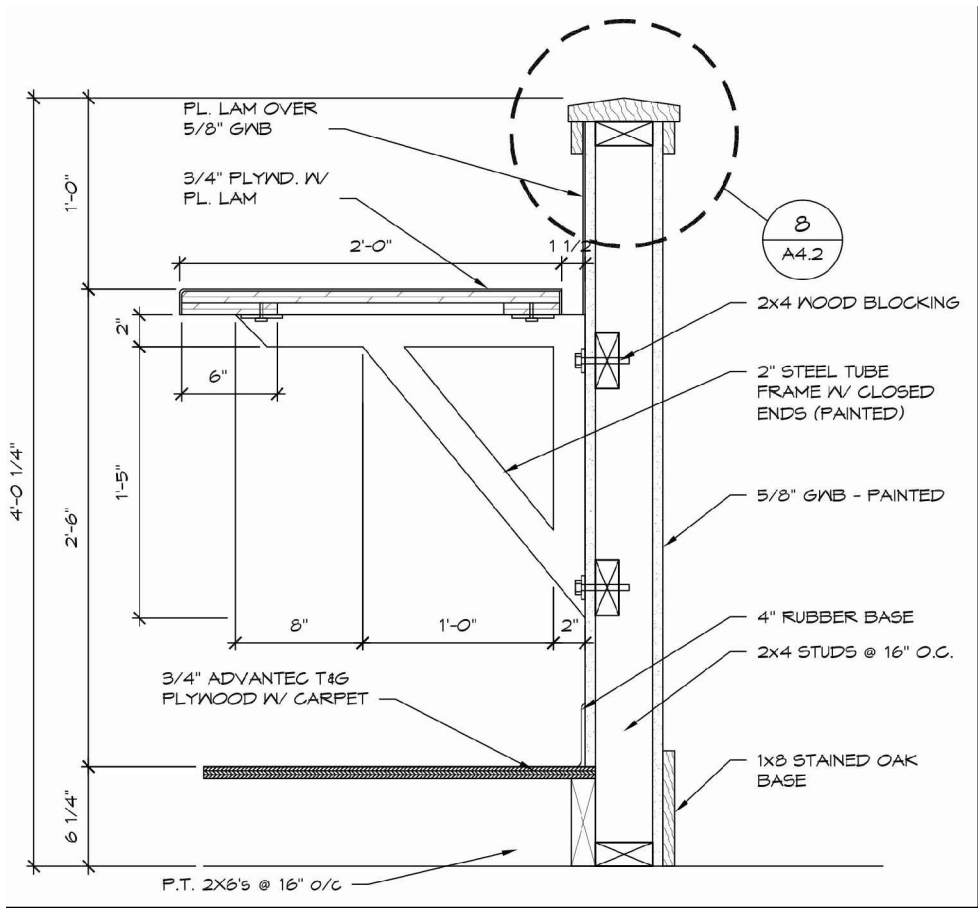
1
A10
ROOF FRAMING PLAN
TYPICAL



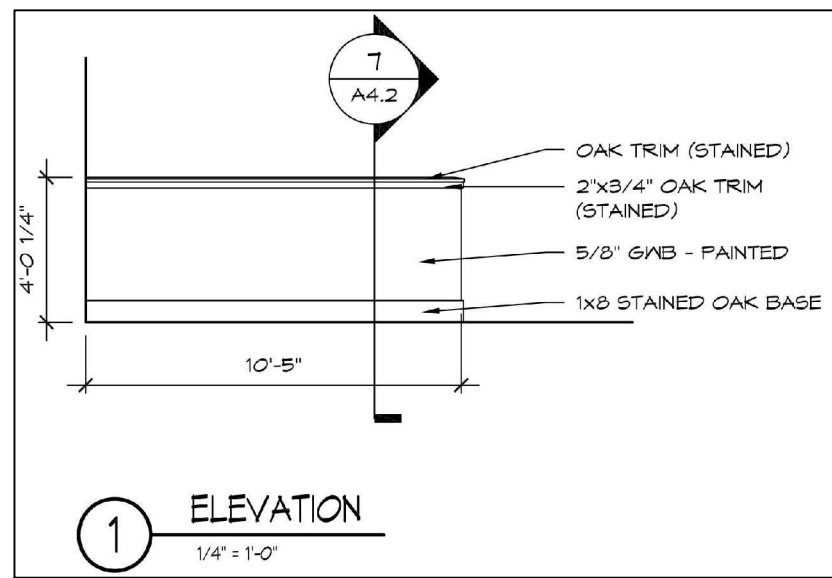
1
A10
STEEPLE MOUNTING DETAIL
TYPICAL



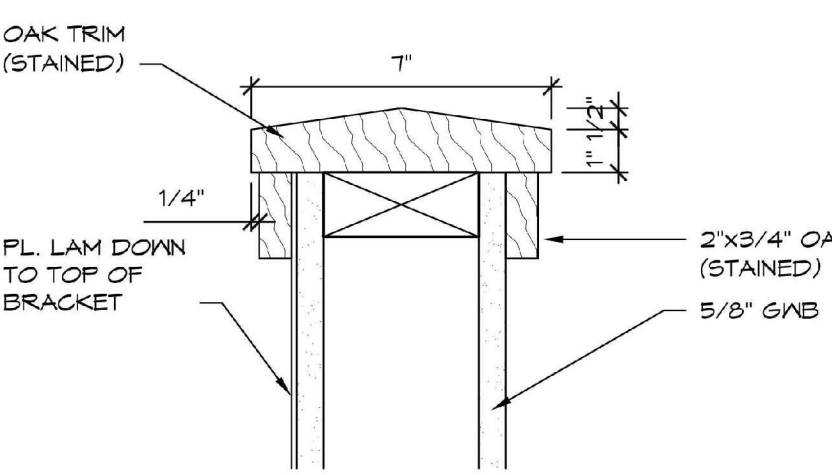
ROOF PLAN AND DETAIL
ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION



1 SOUND BOOTH SECTION
A11 TYPICAL



4 EIFS REVEAL DETAIL
A11 TYPICAL

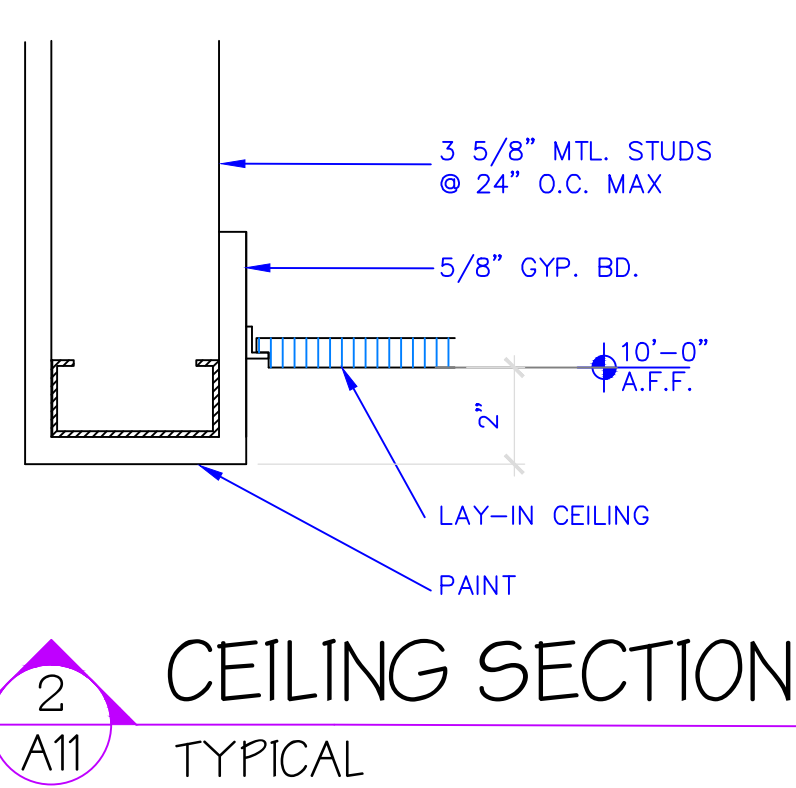


6 SOUND BOOTH DETAIL
A11 TYPICAL

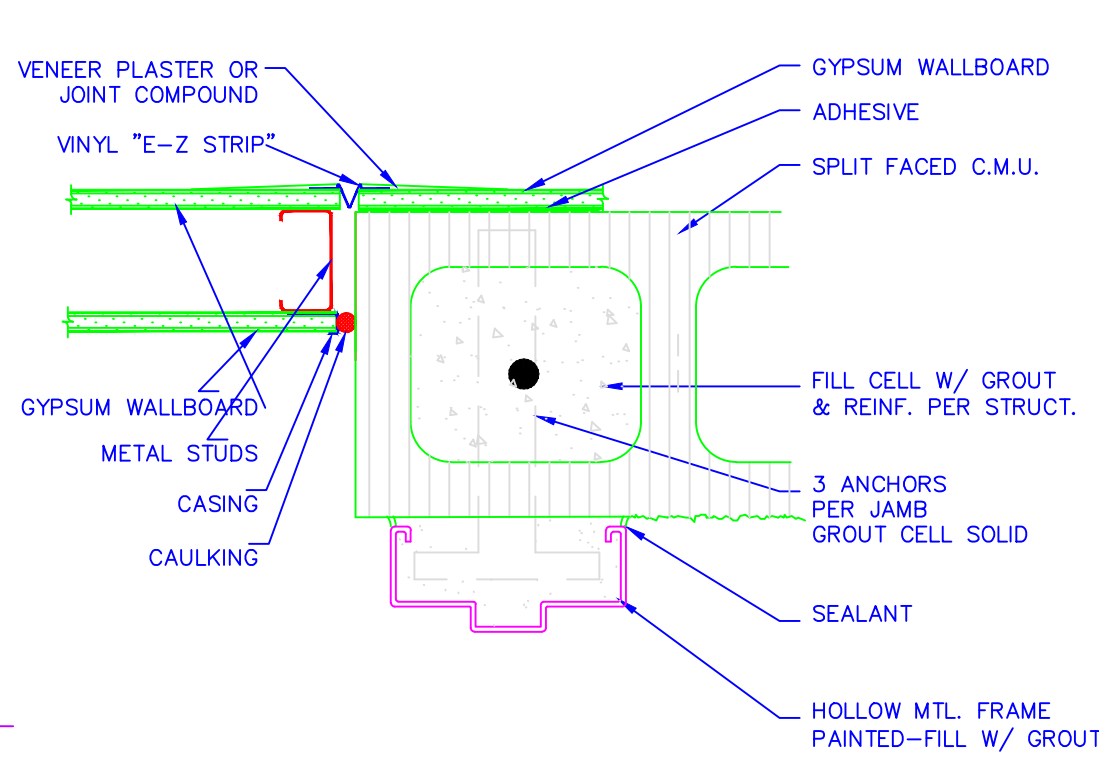
- 2'x2' ACOUSTICAL LAY-IN CEILING
- 2' x 4' FLUORESCENT LAY-IN LIGHT FIXTURE SEE ELECTRICAL PLANS
- RECESSED INCANDESCENT LIGHT FIXTURE SEE ELECTRICAL PLANS

NOTES:

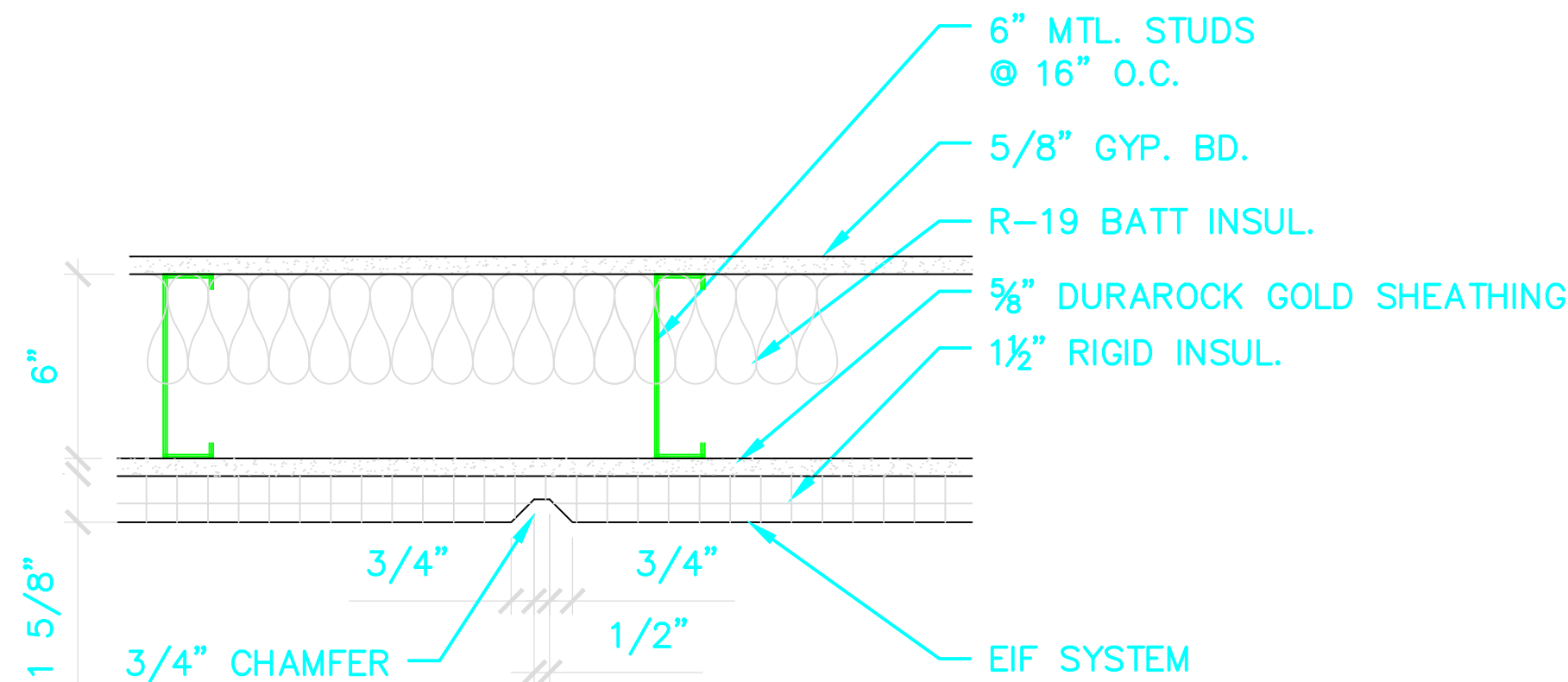
- COORDINATE FINAL CEILING LAYOUT WITH ELECTRICAL AND HVAC ENGINEERS. LOCATE EXIT AND EMERGENCY LIGHTING IN ACCORDANCE WITH ENGINEERED DESIGN AND BUILDING CODES.
- EX
- ALL CEILING AREAS OPEN TO THE STRUCTURE SHALL BE PAINTED. ALL DUCTWORK, CONDUIT, SUPPORT FRAMING, ETC. SHALL LIKEWISE BE PAINTED.



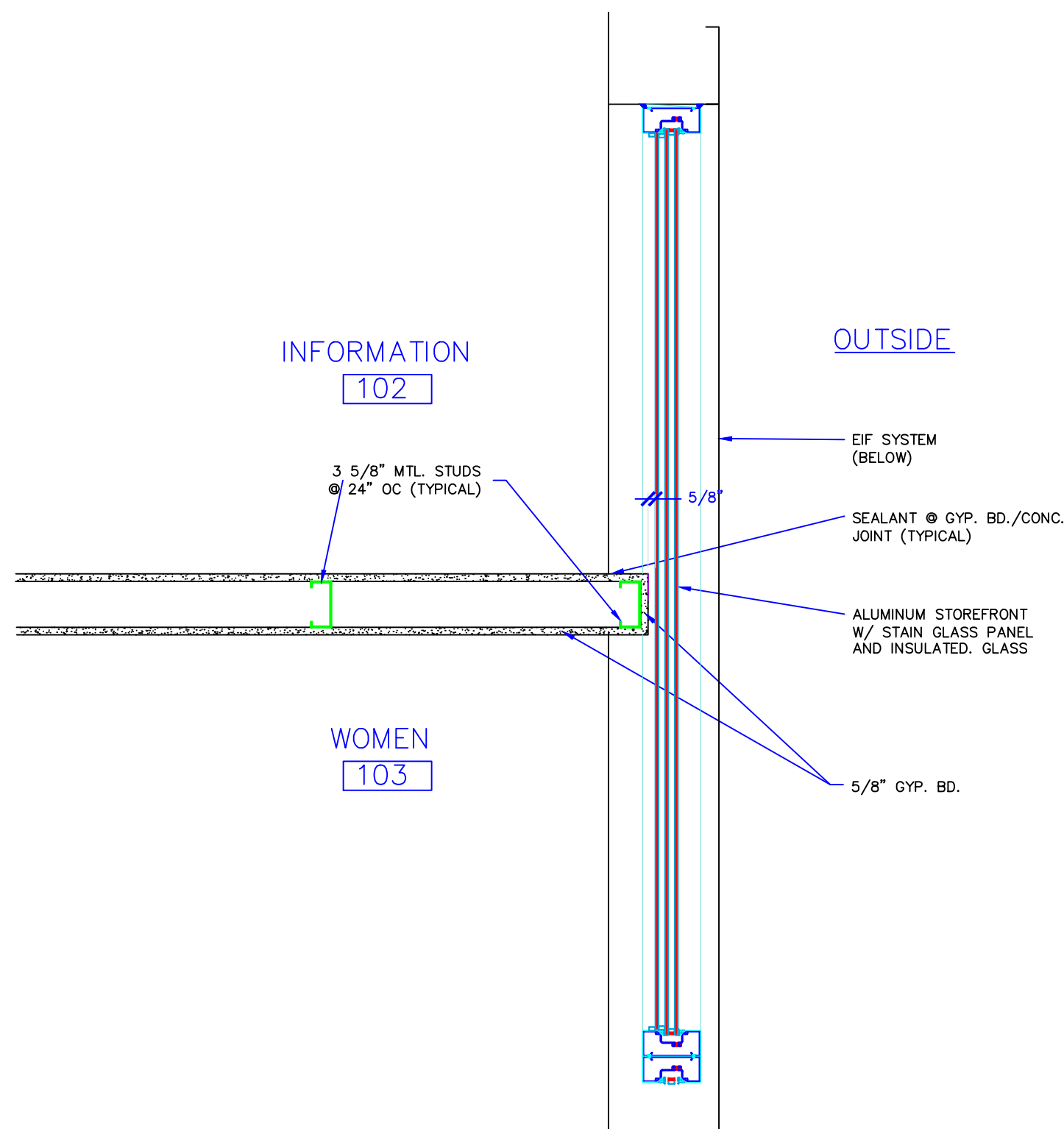
2 CEILING SECTION
A11 TYPICAL



3 WALL DETAIL
A11 TYPICAL



5 SOUND BOOTH SECTION
A11 TYPICAL



7 WALL TO WINDOW DETAIL
A11 TYPICAL

NOTES:

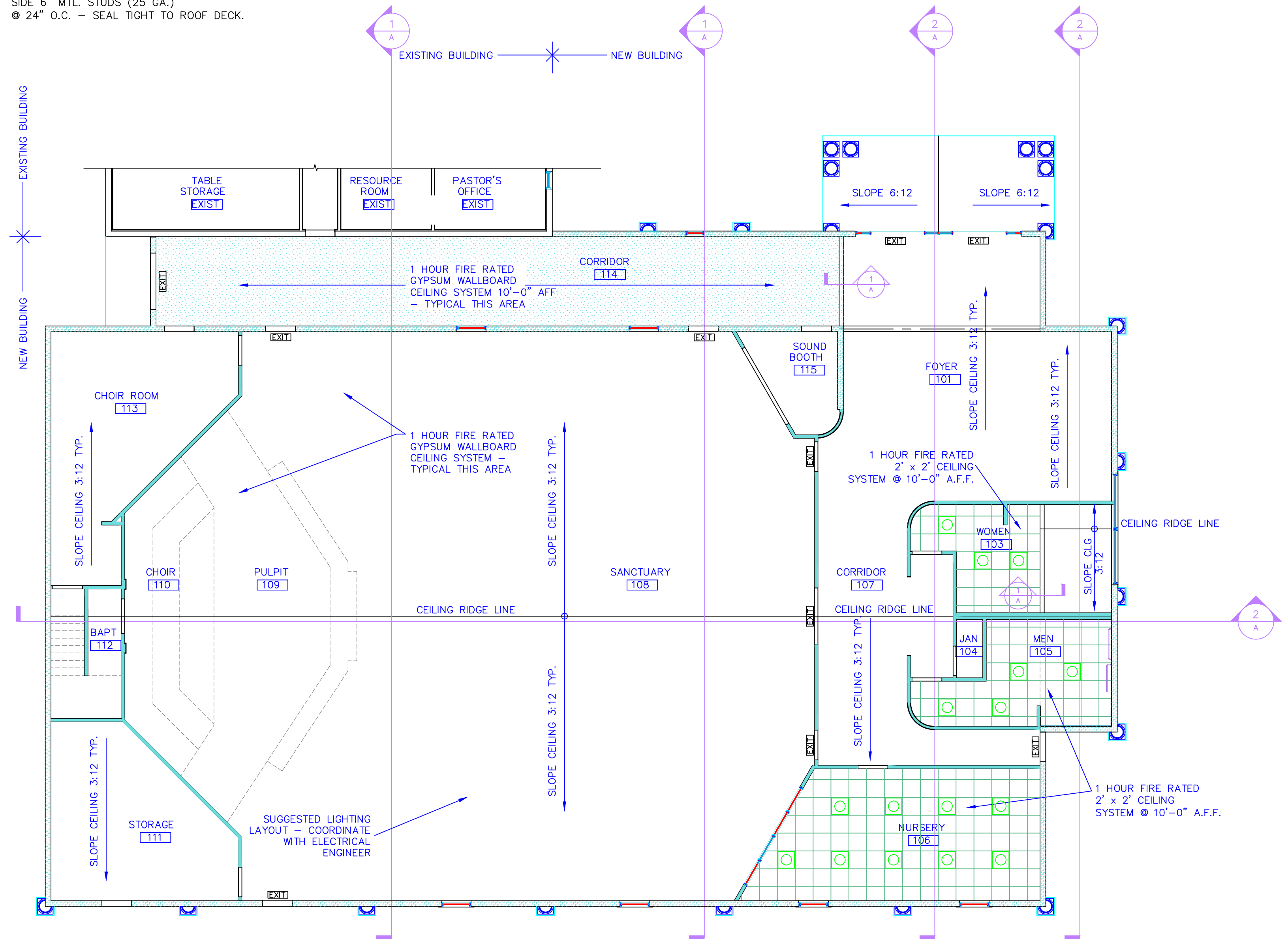
- GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, DETAILS, AND CONDITIONS. NOTIFY DESIGNER OF ANY DISCREPANCIES BETWEEN EXISTING DIMENSIONS, DETAIL AND CONDITIONS AND THOSE SHOWN ON CONTRACT DOCUMENTS PRIOR TO STARTING AND WORK AFFECTED BY OR INVOLVING THESE DISCREPANCIES. INITIATING WORK SHALL BE DEEMED AS ACCEPTANCE BY CONTRACTOR OF EXISTING CONDITIONS AND MODIFICATIONS IF REQUIRED SHALL BE APPROVED BY THE DESIGNER AND BE MADE AT THE CONTRACTOR'S EXPENSE.
- PROVIDE WOOD BLOCKING IN STUD WALL CAVITIES FOR MOUNTING DOOR HARDWARE, TOILET ACCESSORIES, CABINETS, RUNNING TRIM, ETC.
- RATED WALL SHALL BE LABELED IN THE CEILING CAVITY W/ RED PAINT IDENTIFYING THEM AS RATED PARTITIONS, THEIR RATING AND THE WORDS "NO UNPROTECTED PENETRATIONS".

ALUM. STOREFRONT WINDOWS

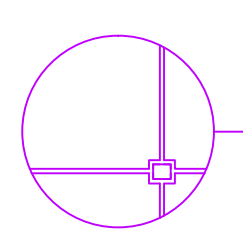
- EXISTING STRUCTURE
- NEW PARTITION - 5/8" GYP. BD. EA. SIDE 3 5/8" MTL. STUDS (25 GA.) @ 24" O.C. TO 4" ABOVE CEILING
- 5/8" GYP. BD. EA. SIDE 3 5/8" MTL. STUDS (25 GA.) @ 24" O.C. W/ 1 1/2" ACOUSTICAL BATT INSULATION - SEAL TIGHT TO ROOF DECK
- NEW PARTITION - 5/8" GYP. BD. EA. SIDE 6" MTL. STUDS (25 GA.) @ 24" O.C. W/ 1 1/2" ACOUSTICAL BATT INSULATION - SEAL TIGHT TO ROOF DECK.
- NEW PARTITION - 5/8" TYPE 'X' GYP. BD. EA. SIDE 6" MTL. STUDS (25 GA.) @ 24" O.C. - SEAL TIGHT TO ROOF DECK.

FINISH SCHEDULE

NO.	SPACE NAME	FLOOR MATERIAL	BASE MATERIAL	WALLS				CEILING	
				NORTH MAT'L.	SOUTH MAT'L.	EAST MAT'L.	WEST MAT'L.	HT.	MAT'L.
101	FOYER	V.C.T.	WOOD BASE	C. M. U. PAINTED	GYP. BD. PAINTED	C. M. U. PAINTED	C. M. U. PAINTED	VARIES	GYP. BD.
102	INFORMATION	V.C.T.	WOOD BASE	GYP. BD. PAINTED	GYP. BD. PAINTED	C. M. U. PAINTED	C. M. U. PAINTED	VARIES	GYP. BD.
103	WOMEN'S TOILET	CER TILE	TILE	GYP. BD. PAINTED	GYP. BD. PAINTED	C. M. U. PAINTED	GYP. BD. PAINTED	VARIES	GYP. BD.
104	JANITOR	V.C.T.	WOOD BASE	GYP. BD. PAINTED	GYP. BD. PAINTED	GYP. BD. PAINTED	GYP. BD. PAINTED	9'-0"	GYP. BD.
105	MEN'S TOILET	CER TILE	TILE	GYP. BD. PAINTED	GYP. BD. PAINTED	GYP. BD. PAINTED	GYP. BD. PAINTED	10'-0"	GYP. BD.
106	NURSERY	V.C.T.	WOOD BASE	GYP. BD. PAINTED	C. M. U. PAINTED	C. M. U. PAINTED	GYP. BD. PAINTED	10'-0"	AC TILE
107	CORRIDOR	V.C.T.	WOOD BASE	GYP. BD. PAINTED	GYP. BD. PAINTED	GYP. BD. PAINTED	GYP. BD. PAINTED	VARIES	GYP. BD.
108	SANCTUARY	CARPET	WOOD BASE	C. M. U. PAINTED	C. M. U. PAINTED	GYP. BD. PAINTED	GYP. BD. PAINTED	VARIES	AC TILE
109	PULPIT	CARPET	WOOD BASE	GYP. BD. PAINTED	GYP. BD. PAINTED	GYP. BD. PAINTED	GYP. BD. PAINTED	VARIES	AC TILE
110	CHOIR	CARPET	WOOD BASE	GYP. BD. PAINTED	GYP. BD. PAINTED	GYP. BD. PAINTED	GYP. BD. PAINTED	VARIES	AC TILE
111	STORAGE	V.C.T.	WOOD BASE	GYP. BD. PAINTED	C. M. U. PAINTED	GYP. BD. PAINTED	C. M. U. PAINTED	10'-0"	AC TILE
112	BAPTISTRY	VCT	WOOD BASE	GYP. BD. PAINTED	GYP. BD. PAINTED	GYP. BD. PAINTED	GYP. BD. PAINTED	VARIES	AC TILE
113	CHOIR ROOM	V.C.T.	WOOD BASE	C. M. U. PAINTED	GYP. BD. PAINTED	GYP. BD. PAINTED	C. M. U. PAINTED	VARIES	AC TILE
114	CORRIDOR	V.C.T.	WOOD BASE	C. M. U. PAINTED	C. M. U. PAINTED	C. M. U. PAINTED	C. M. U. PAINTED	VARIES	GYP. BD.
115	SOUND ROOM	CARPET	WOOD BASE	C. M. U. PAINTED	GYP. BD. PAINTED	C. M. U. PAINTED	GYP. BD. PAINTED	VARIES	AC TILE

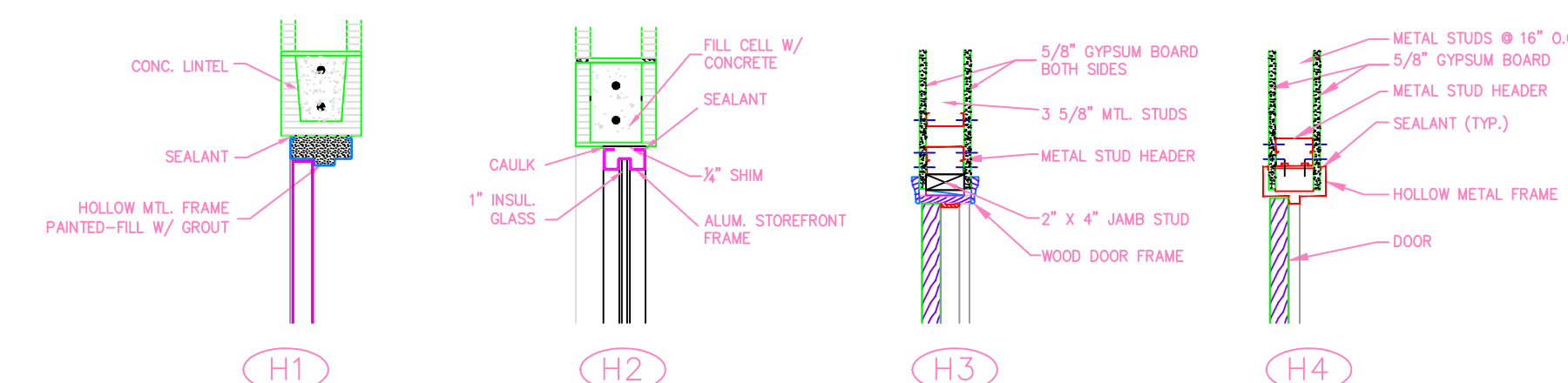


8 MAIN FLOOR CEILING LAYOUT
A11 TYPICAL

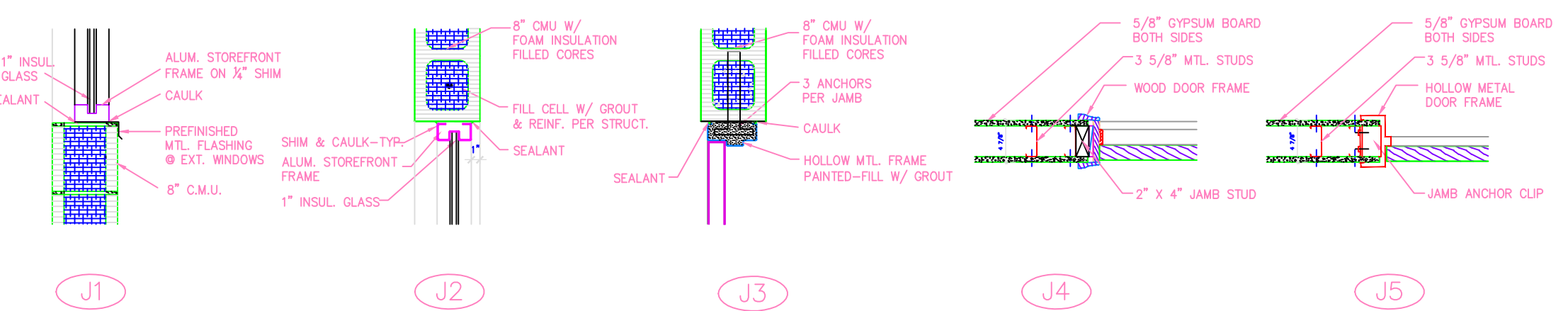


REFLECTED CEILING PLAN

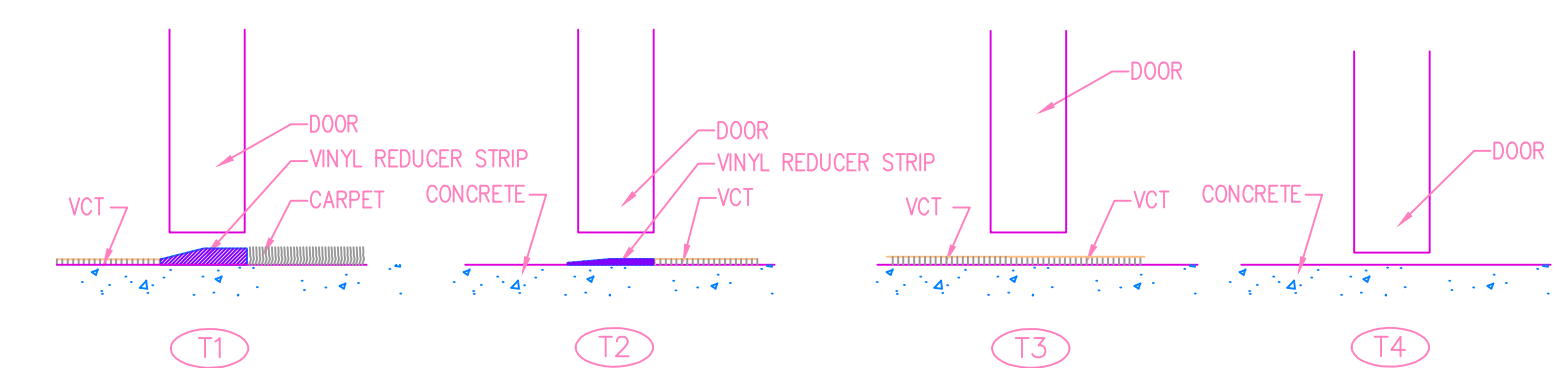
ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION



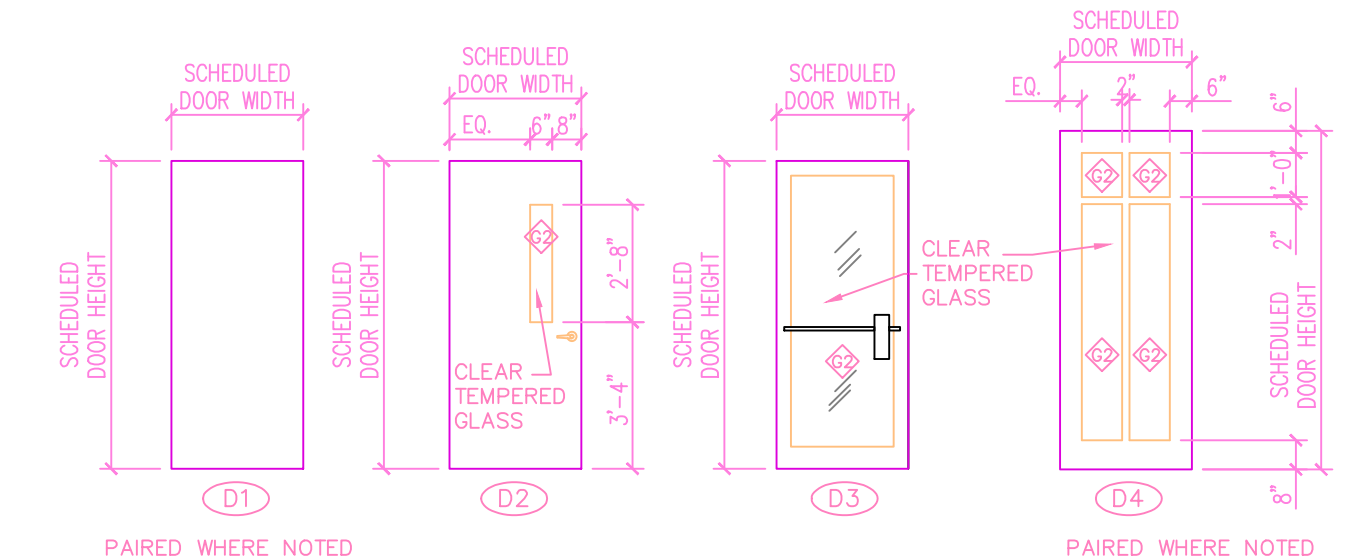
1
A12
DOOR HEAD TYPES
TYPICAL



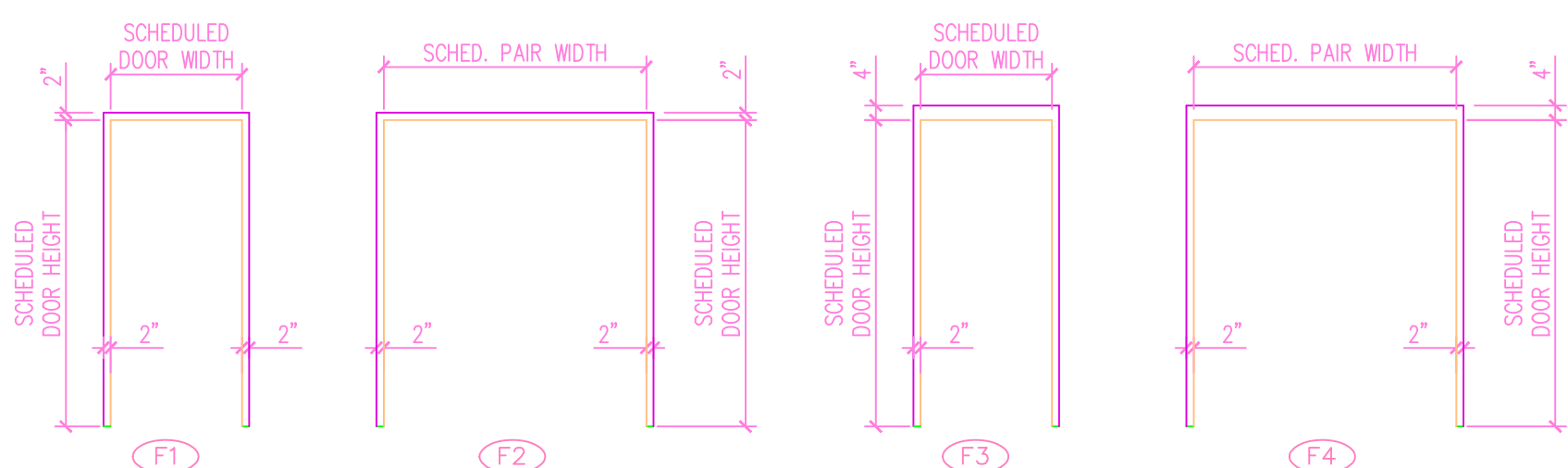
2
A12
DOOR JAMB TYPES
TYPICAL



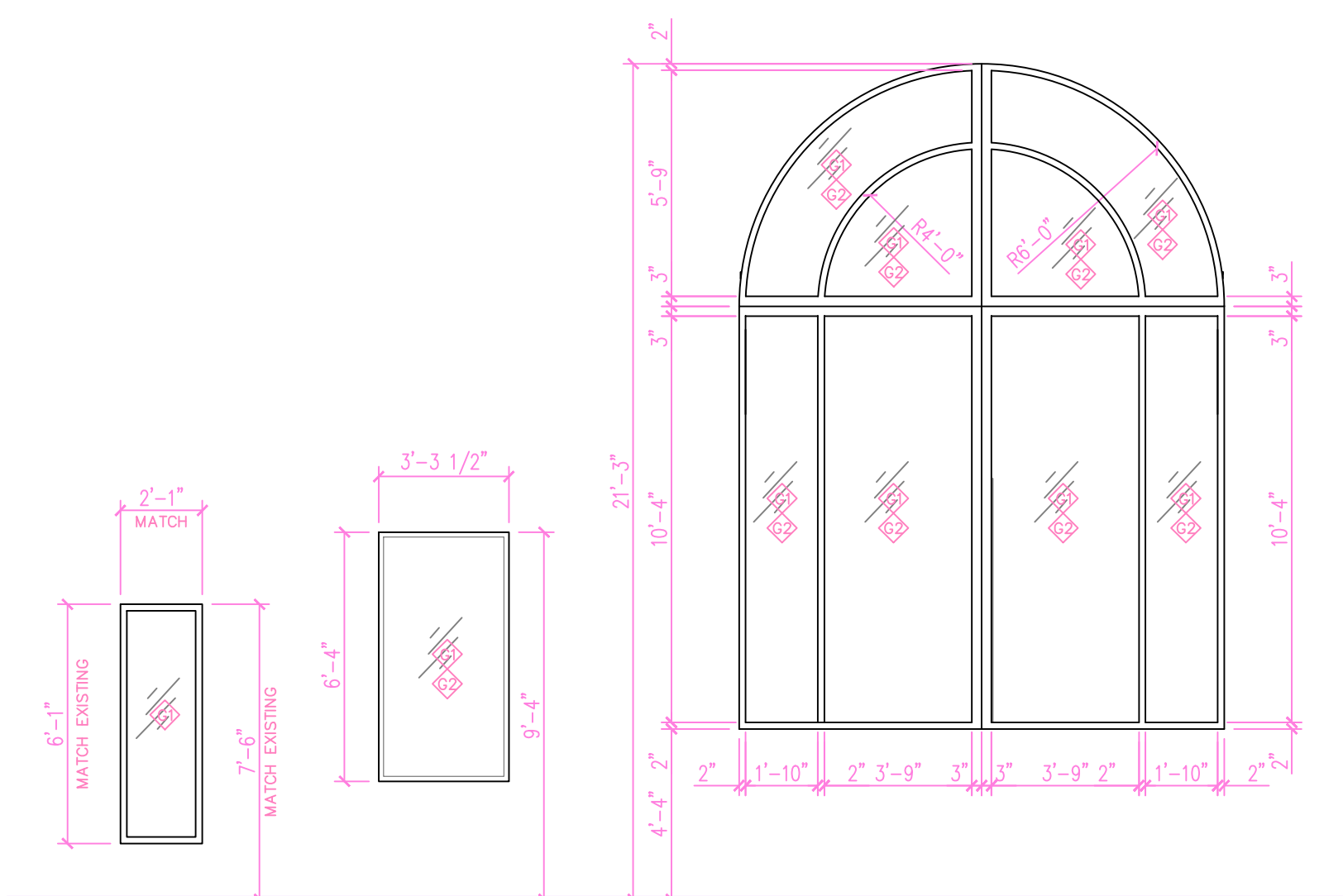
3
A12
DOOR THRESHOLD TYPES
TYPICAL



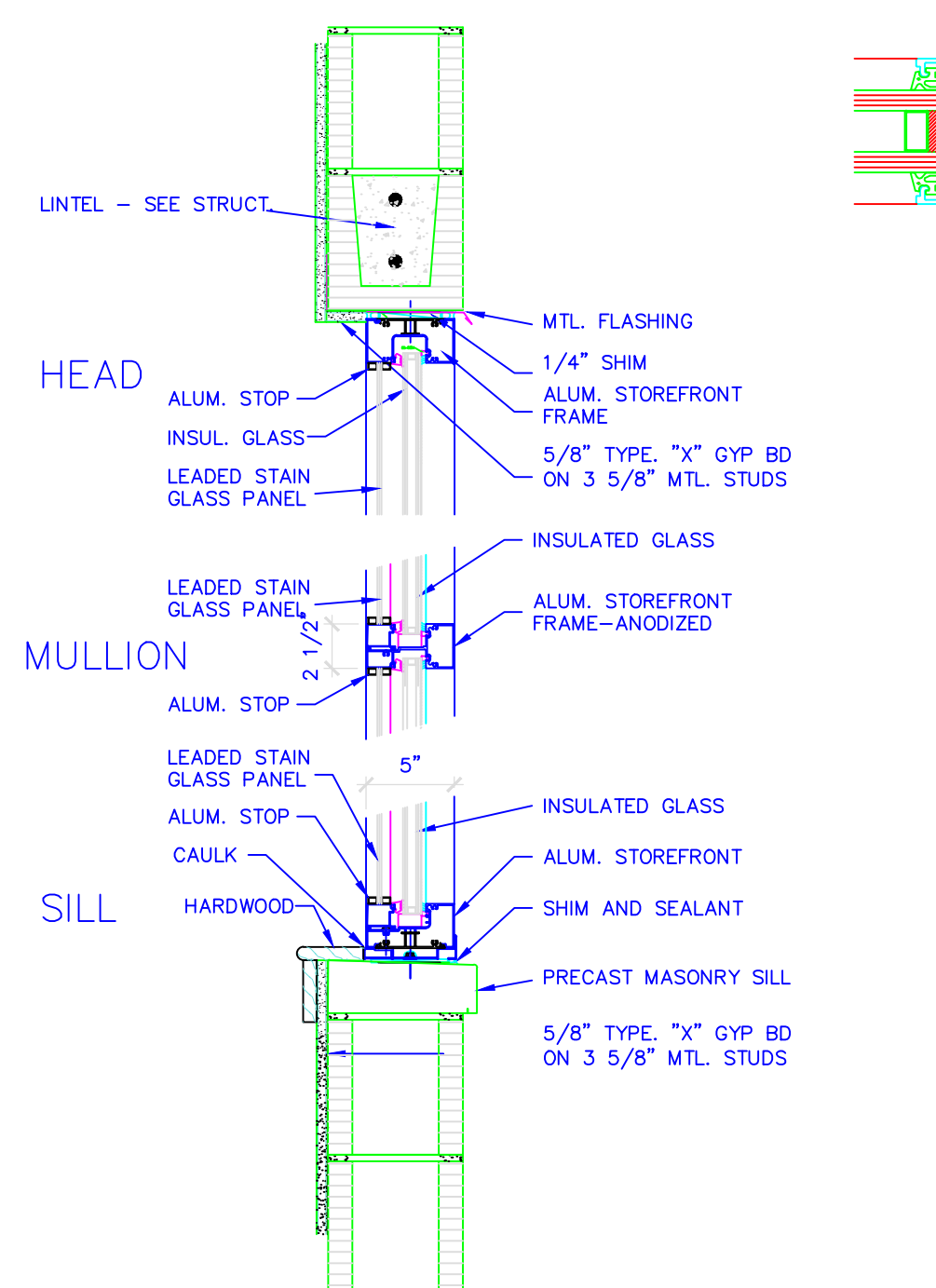
4
A12
DOOR TYPES
TYPICAL



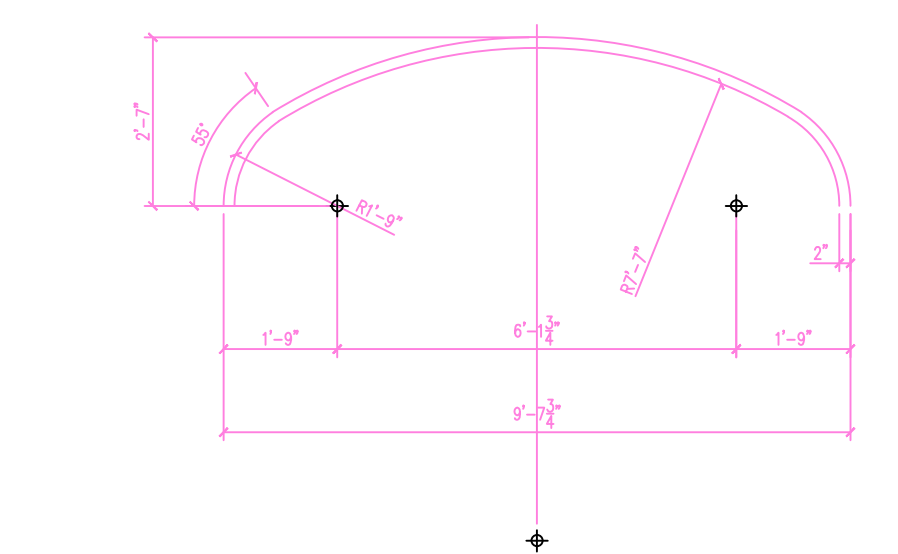
7
A12
DOOR FRAME TYPES
TYPICAL



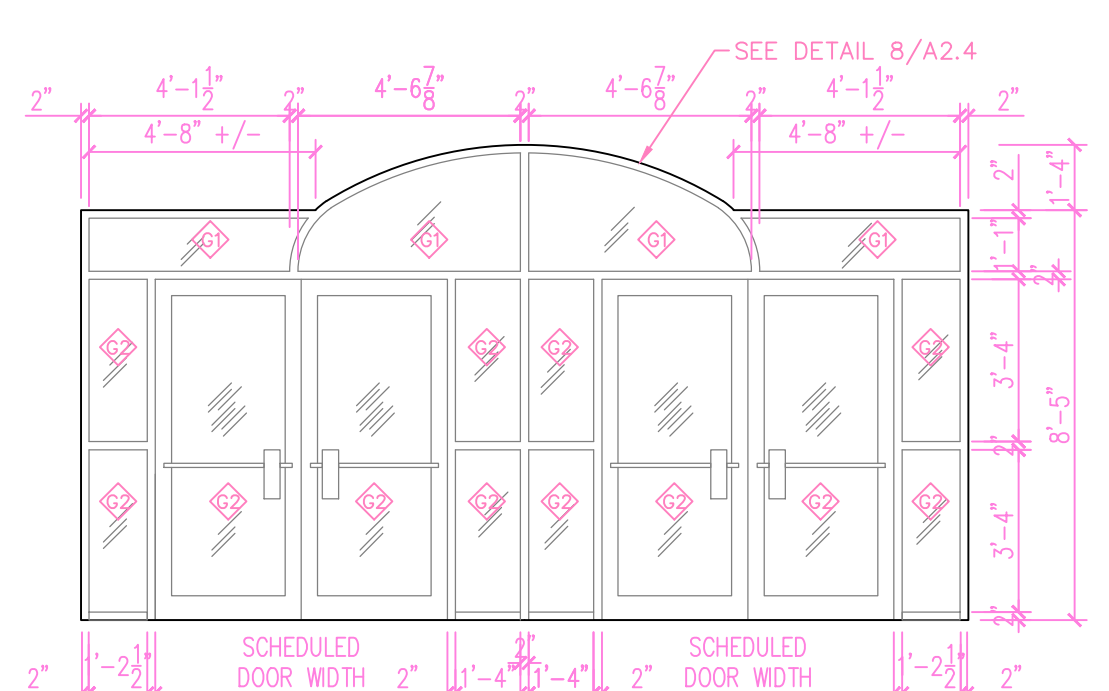
5
A12
WINDOW ELEVATION AND DETAILS
TYPICAL



6
A12
STAIN GLASS DETAIL
TYPICAL



8
A12
TRANSOM DETAIL
TYPICAL



9
A12
FRONT DOOR DETAIL
TYPICAL

DOOR SCHEDULE

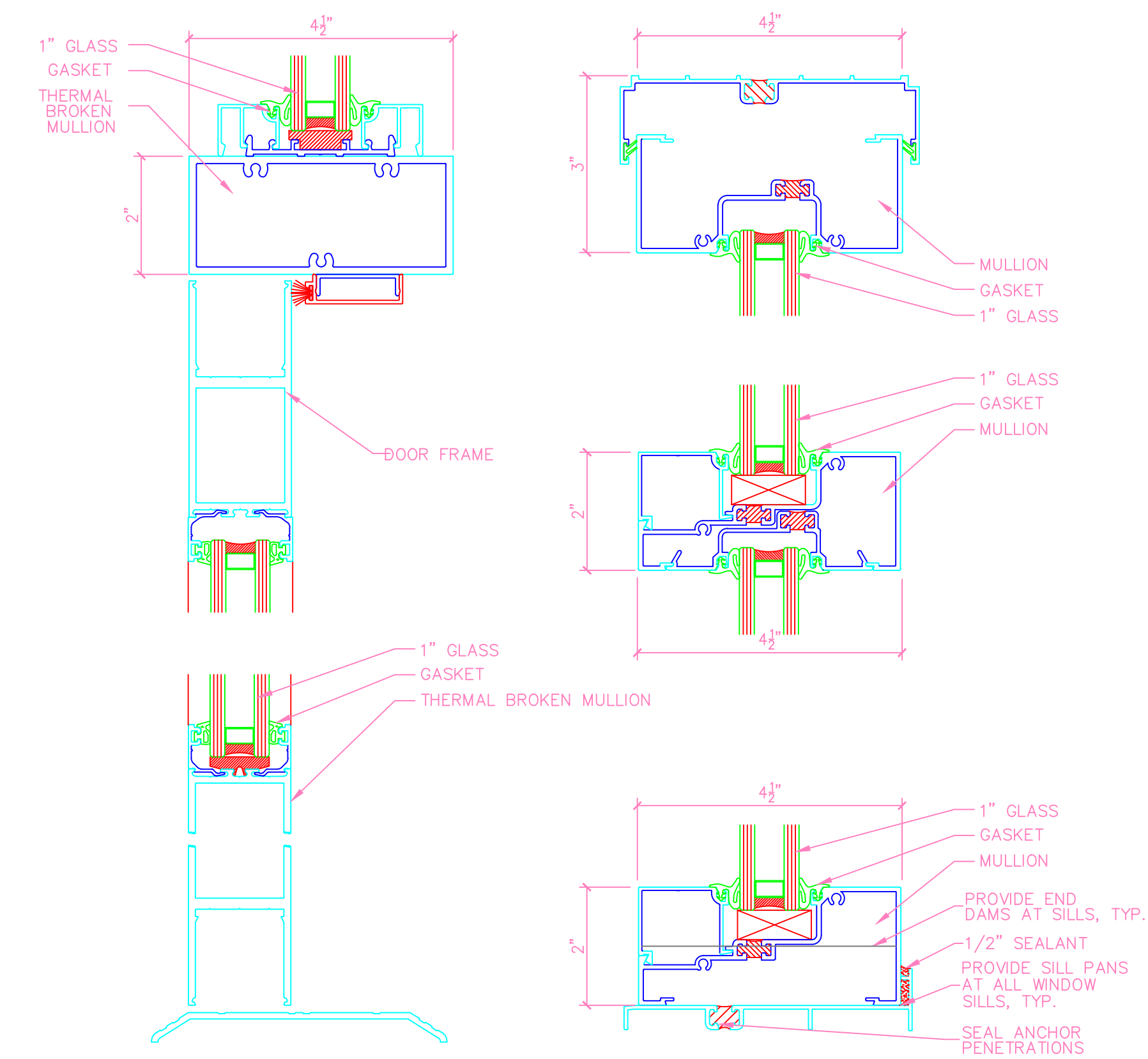
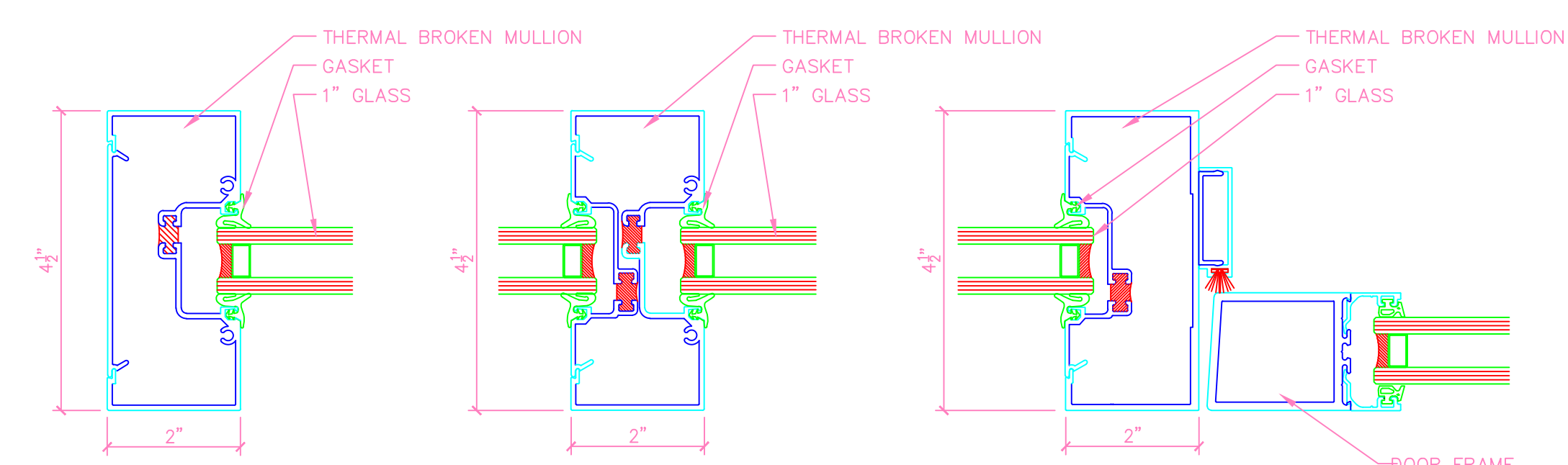
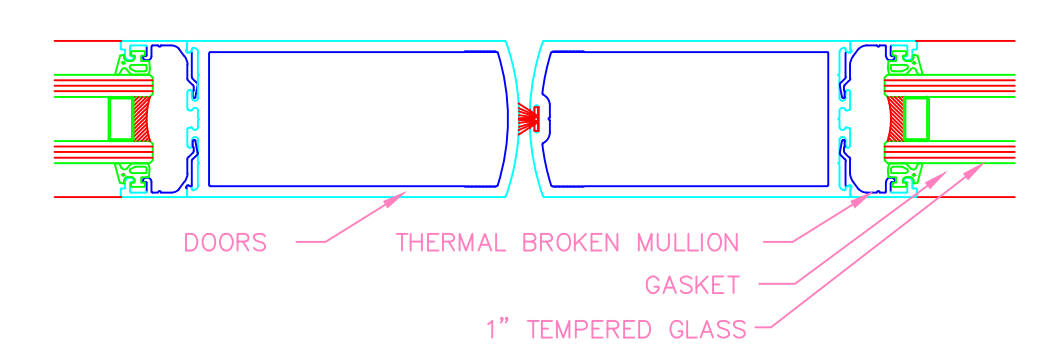
DOOR NO.	ROOM NAME	SIZE (W x H)	DOOR		FRAME		DETAILS			FIRE RATING	HARDWARE SET	REMARKS	DOOR NO.
			TYPE	MATL.	TYPE	MATL.	JAMB	HEAD	THRSHOLD				
101A	FOYER	2 (3'-0" X 7'-0")	D3	AL/GL	F2	AL	1/A2.4	1/A2.4	T6		ENTRY	PANIC DEVICE, CLOSER, RAIN DRIP, WEATHERSEAL	101A
101B	FOYER	2 (3'-0" X 7'-0")	D3	AL/GL	F2	AL	1/A2.4	1/A2.4	T6		ENTRY	PANIC DEVICE, CLOSER, RAIN DRIP, WEATHERSEAL	101B
103A	WOMEN	3'-0" X 7'-0"	D1	WD	F1	WD	J4	H4	T5	-	PUSH/PULL	CLOSER, WALL BUMPER	103A
104A	JANITOR	3'-0" X 7'-0"	D1	WD	F1	WD	J4	H4	T3	-	STORAGE	CLOSER	104A
105A	MEN	3'-0" X 7'-0"	D1	WD	F1	WD	J4	H4	T5	-	PUSH/PULL	CLOSER, WALL BUMPER	105A
106A	NURSERY	3'-0" X 7'-0"	D2	WD	F1	WD	J4	H4	T3	-	CLASSROOM	CLOSER	106A
107A	CORRIDOR	3'-0" X 7'-0"	D1	HM	F3	HM	J3	H1	T6		ENTRY	PANIC DEVICE, CLOSER, RAIN DRIP, WEATHERSEAL	107A
108A	SANCTUARY	3'-0" X 8'-0"	D4	WD	F1	WD	J4	H3	T1	-	ENTRY	PANIC DEVICE, CLOSER	108A
108B	SANCTUARY	2 (3'-0" X 8'-0")	D4	WD	F2	WD	J4	H3	T1	-	ENTRY	PANIC DEVICE, CLOSER	108B
108C	SANCTUARY	3'-0" X 8'-0"	D4	WD	F1	WD	J4	H3	T1	-	ENTRY	PANIC DEVICE, CLOSER	108C
108D	SANCTUARY	3'-0" X 7'-0"	D1	HM	F3	HM	J3	H1	T7	-	ENTRY	PANIC DEVICE, CLOSER, RAIN DRIP, WEATHERSEAL	108D
108E	SANCTUARY	3'-0" X 8'-0"	D4	WD	F1	WD	J3	H1	T1	-	ENTRY	PANIC DEVICE, CLOSER, 180 DEGREE HINGES	108E
108F	SANCTUARY	3'-0" X 8'-0"	D4	WD	F1	WD	J3	H1	T1	-	ENTRY	PANIC DEVICE, CLOSER, 180 DEGREE HINGES	108F
111A	STORAGE	3'-0" X 7'-0"	D1	WD	F1	WD	J3	H3	T1	20 MIN	STORAGE	CLOSER	111A
111B	STORAGE	3'-0" X 7'-0"	D1	HM	F3	HM	J4	H1	T6		ENTRY	CLOSER, RAIN DRIP, WEATHERSEAL	111B
112A	BAPTISTRY	3'-0" X 7'-0"	D1	WD	F1	WD	J3	H3	T3	20 MIN	STORAGE	CLOSER	114A
113A	CHOIR ROOM	3'-0" X 7'-0"	D1	WD	F1	WD	J3	H3	T1	20 MIN	CLASSROOM	CLOSER	115A
113B	CHOIR ROOM	3'-0" X 7'-0"	D1	WD	F1	WD	J3	H1	T3	-	CLASSROOM	PANIC DEVICE, CLOSER, 180 DEGREE HINGES	115B
114A	CORRIDOR	2 (3'-0" X 7'-0")	D3	AL/GL	F1	WD	J2	H2	T6		ENTRY	PANIC DEVICE, CLOSER, RAIN DRIP, WEATHERSEAL	116A
115A	SOUND BOOTH	3'-0" X 7'-0"	D1	WD	F1	WD	J3	H1	T1	20 MIN	STORAGE	CLOSER	117A

GLAZING SCHEDULE

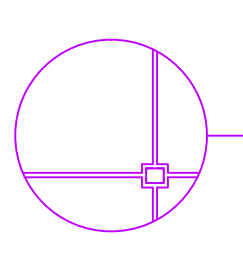
GLAZING TYPE	DESCRIPTION
G1	1" INSULATED LOW 'E' COATED TEMPERED GLASS
G2	1/4" CLEAR TEMPERED GLASS
G3	LEADED STAINED GLASS PANEL

GENERAL NOTES

1. ALL H.M. FRAMES TO BE PAINTED (COLOR BY ARCHITECT). SEE DOOR SCHEDULE FOR ADDITIONAL H.M. DOOR FRAMES.
2. SEE WALL SECTIONS FOR ADDITIONAL NOTES REGARDING WALL CONSTRUCTION.
3. ALL GLAZING SYSTEM OPENINGS TO BE FIELD VERIFIED PRIOR TO ORDERING AND INSTALLATION.
4. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

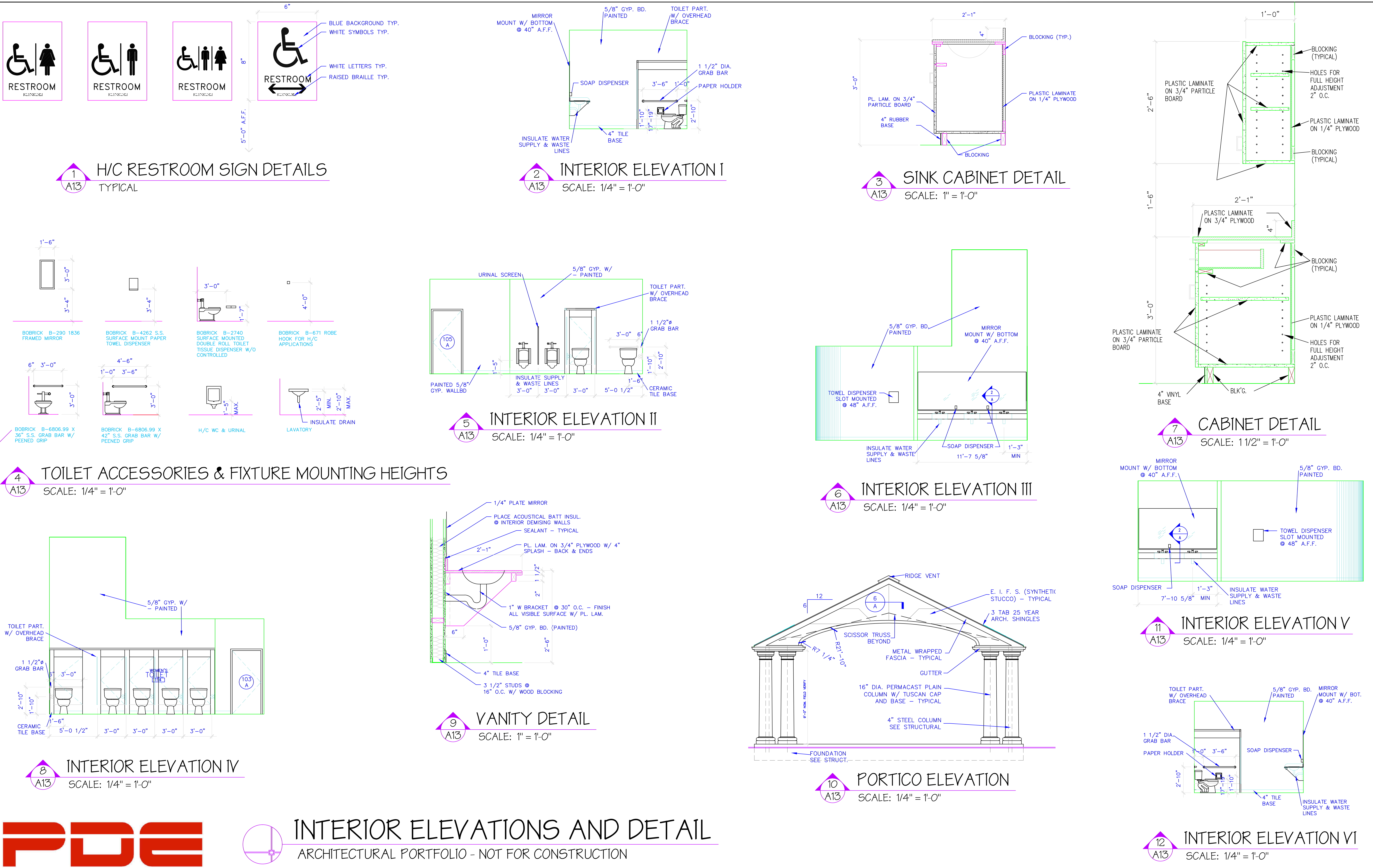


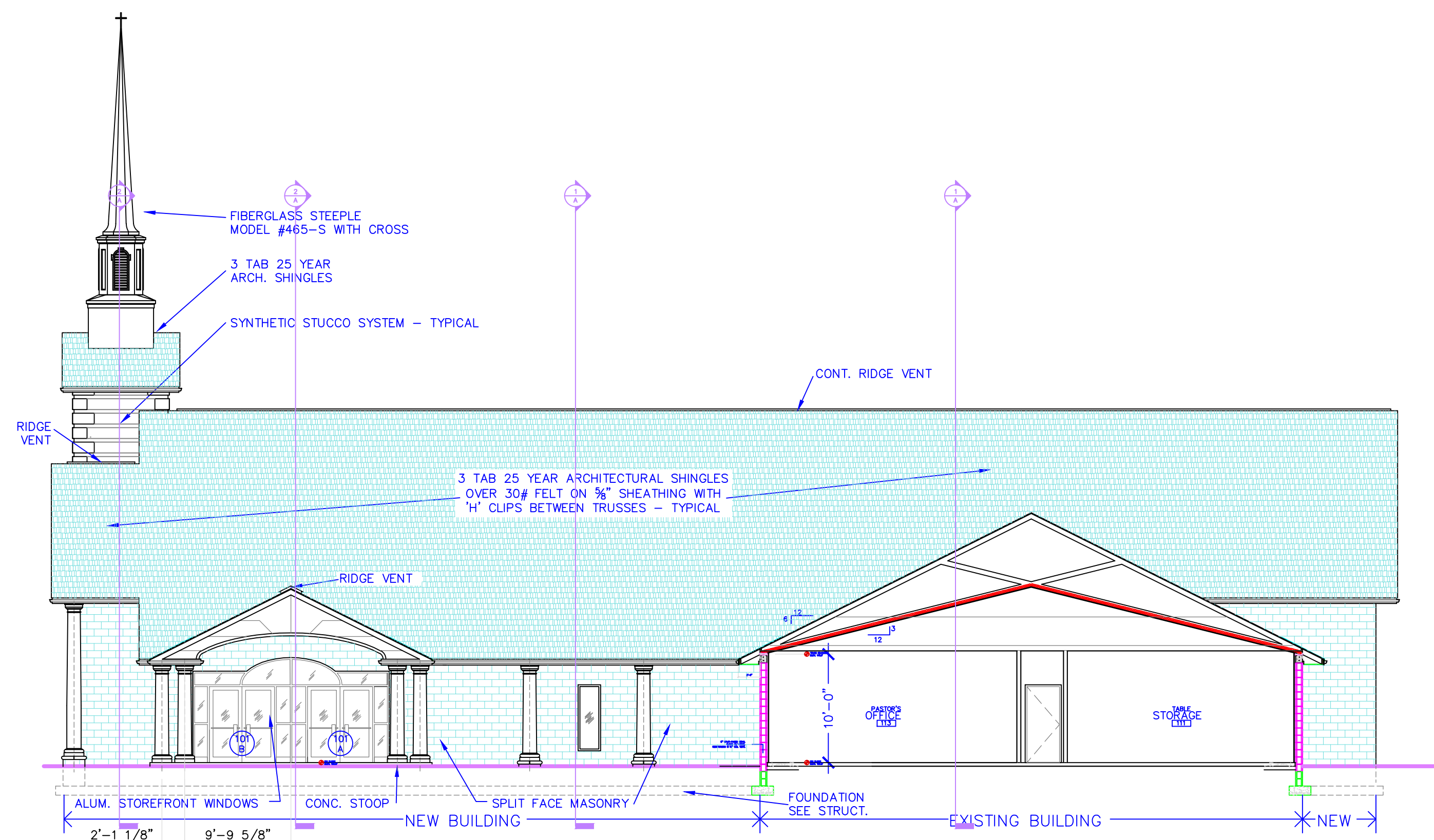
10
A12
STOREFRONT DETAILS
TYPICAL



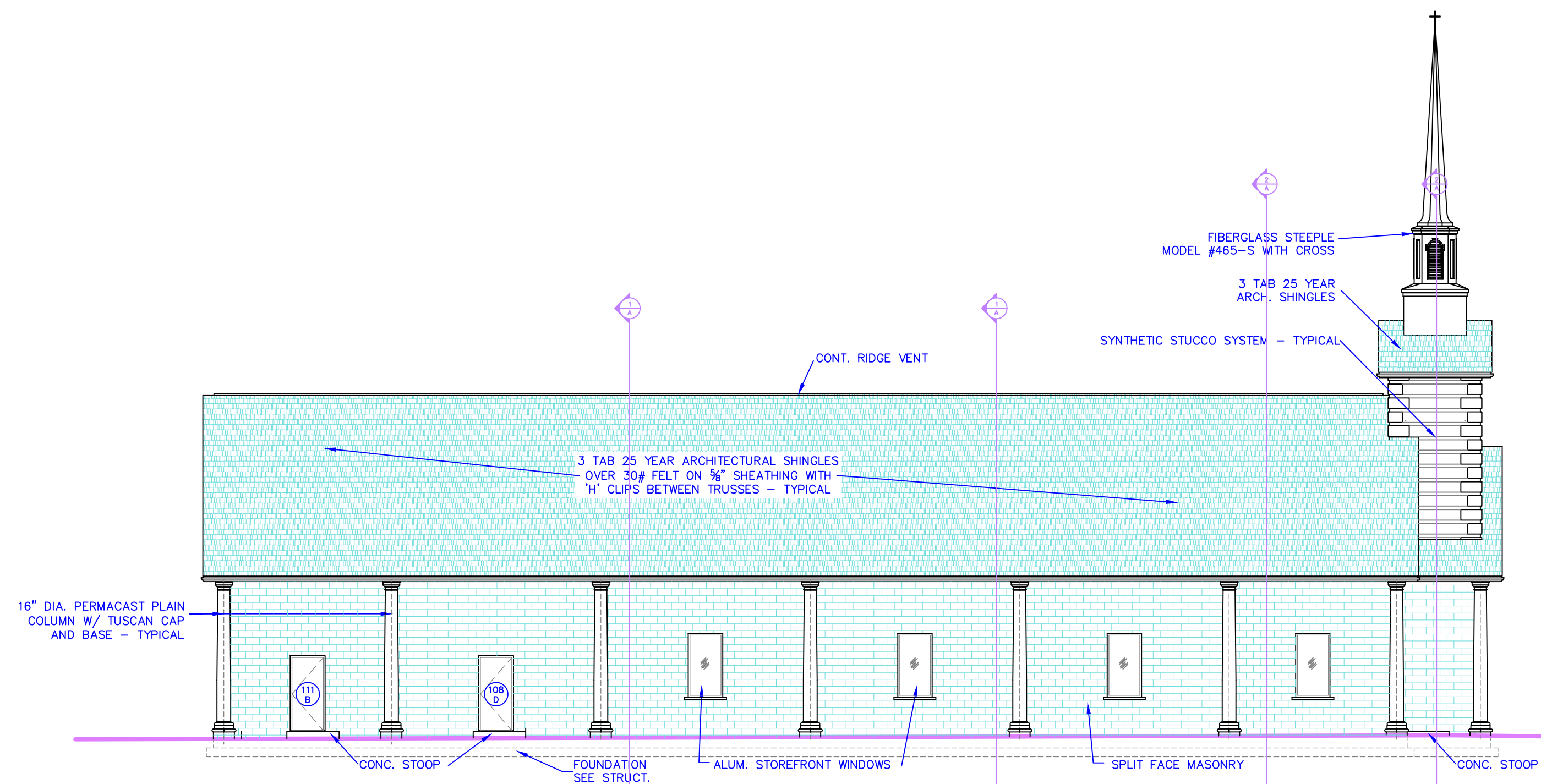
OPENING DETAIL AND SCHEDULE

ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION

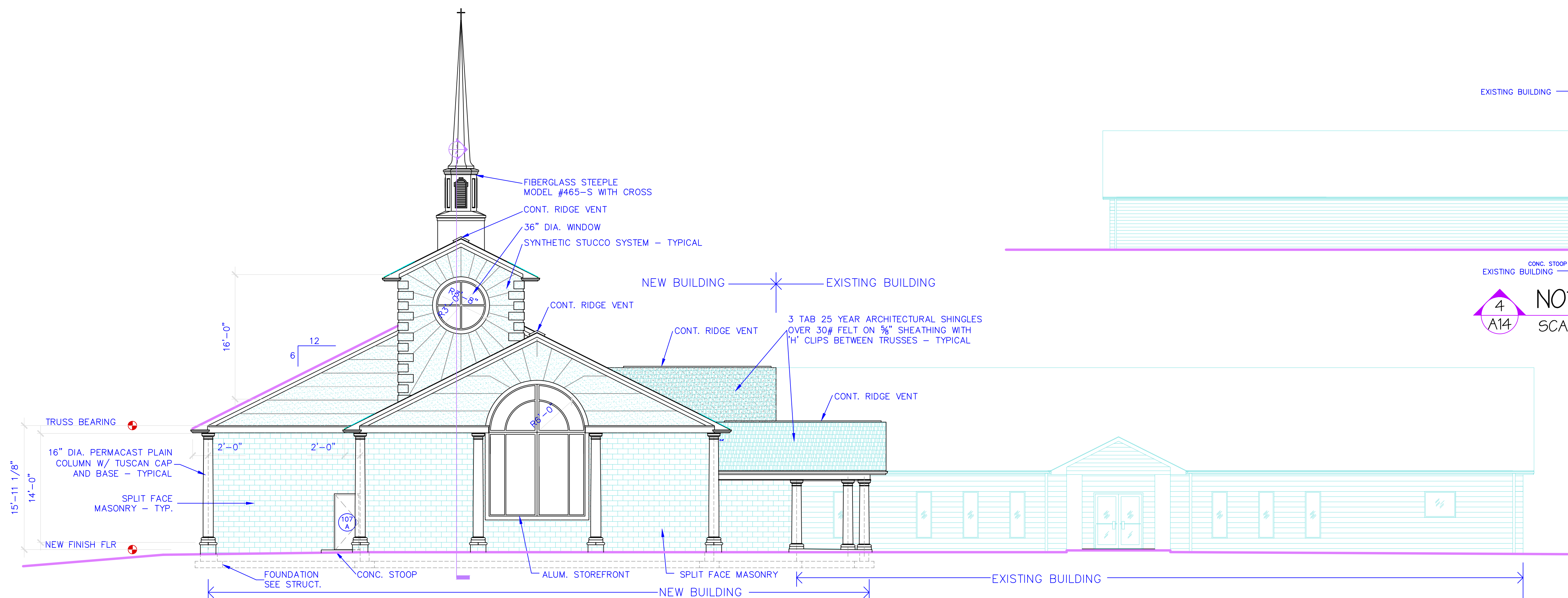




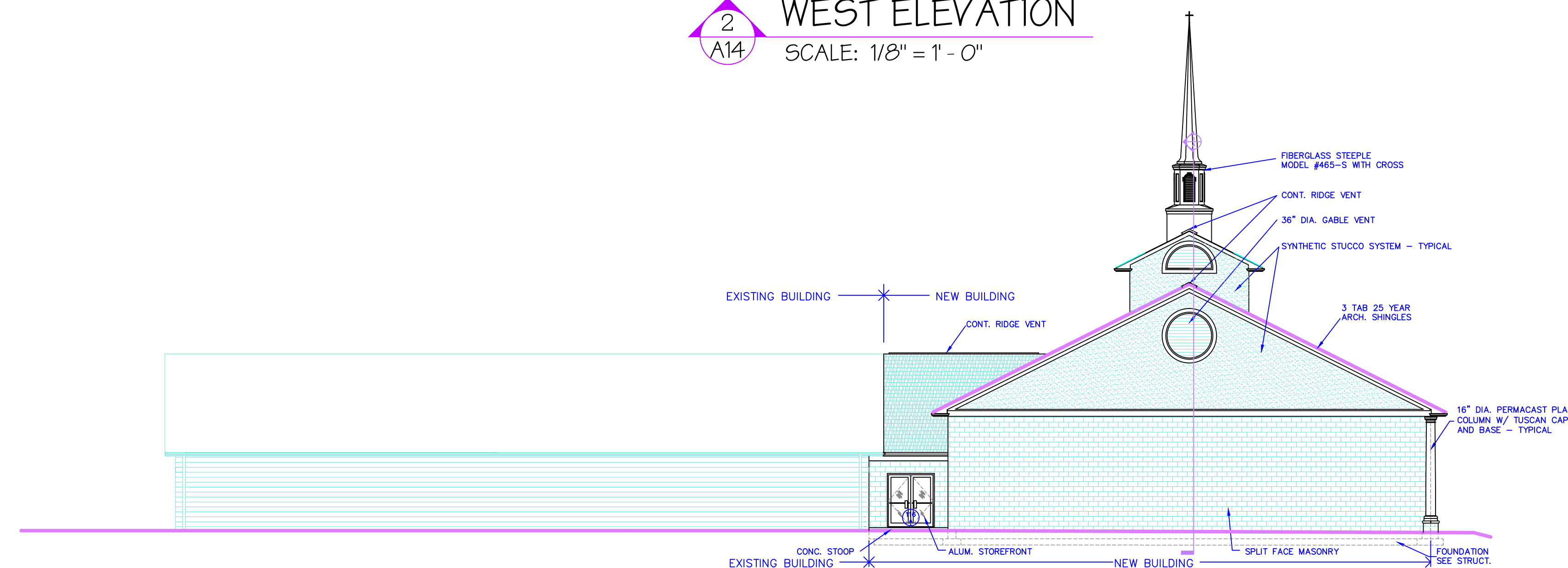
1 EAST ELEVATION
SCALE: 1/8" = 1' - 0"



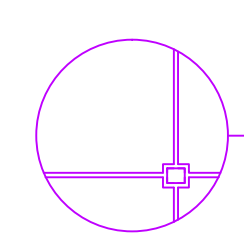
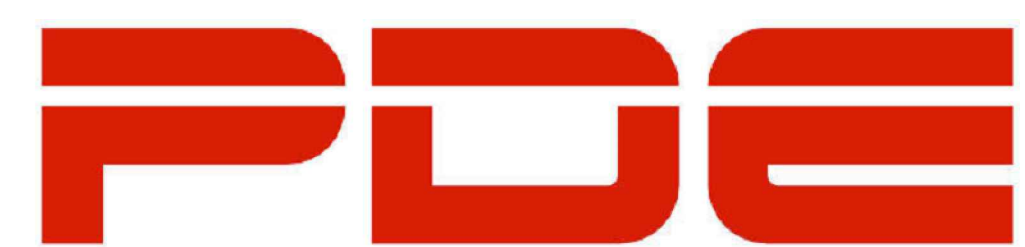
2 WEST ELEVATION
SCALE: 1/8" = 1' - 0"



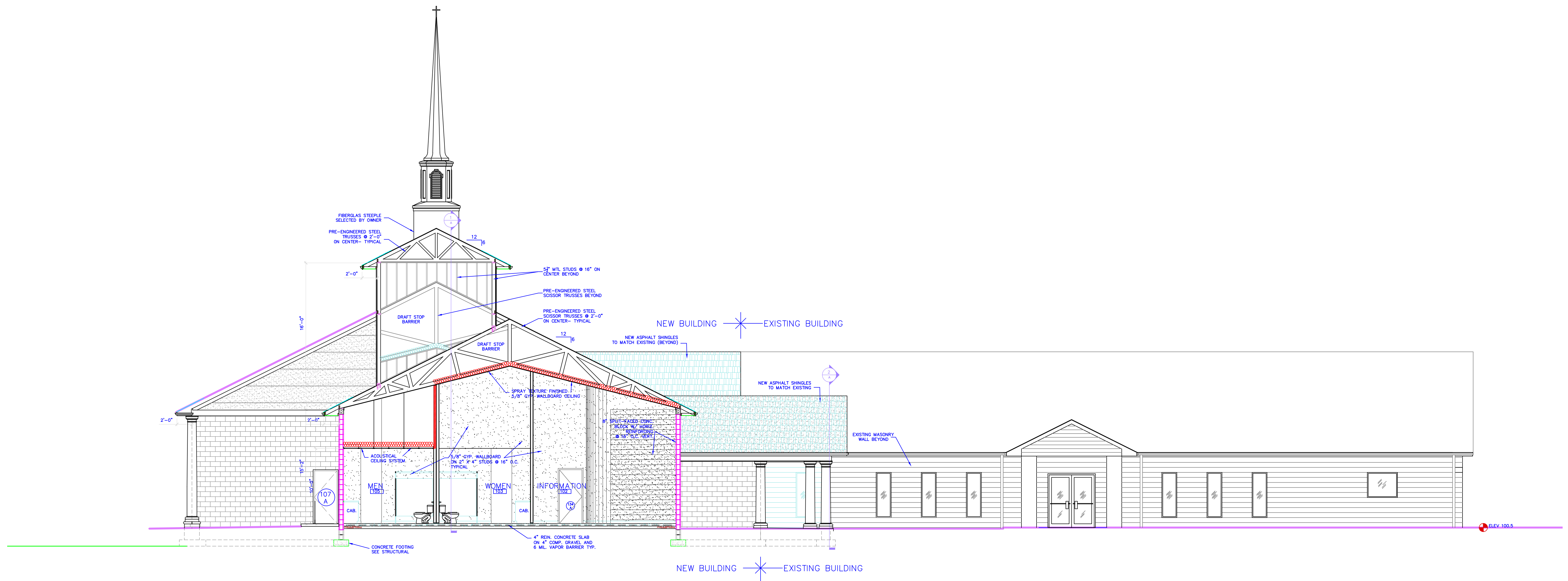
3 SOUTH ELEVATION
SCALE: 1/8" = 1' - 0"



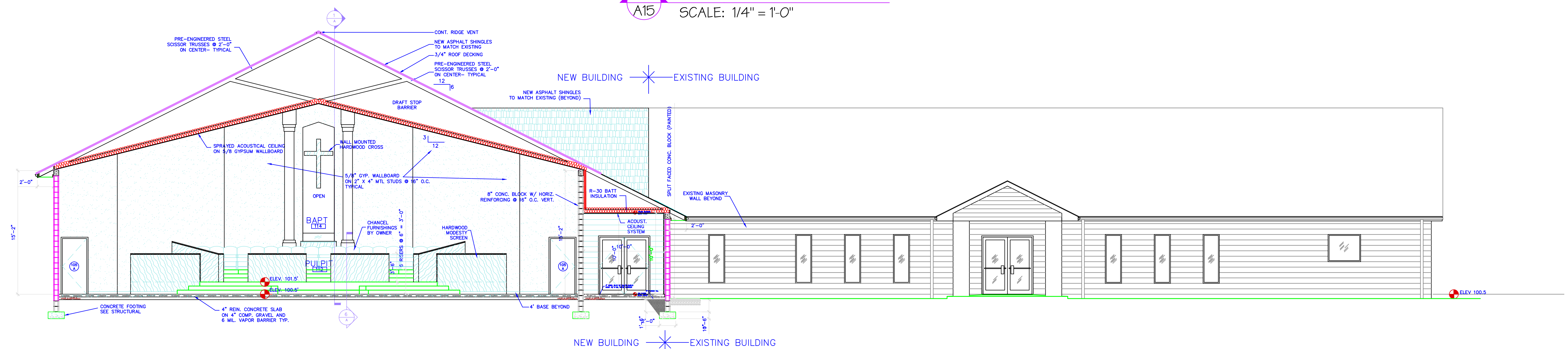
4 NORTH ELEVATION
SCALE: 1/8" = 1' - 0"



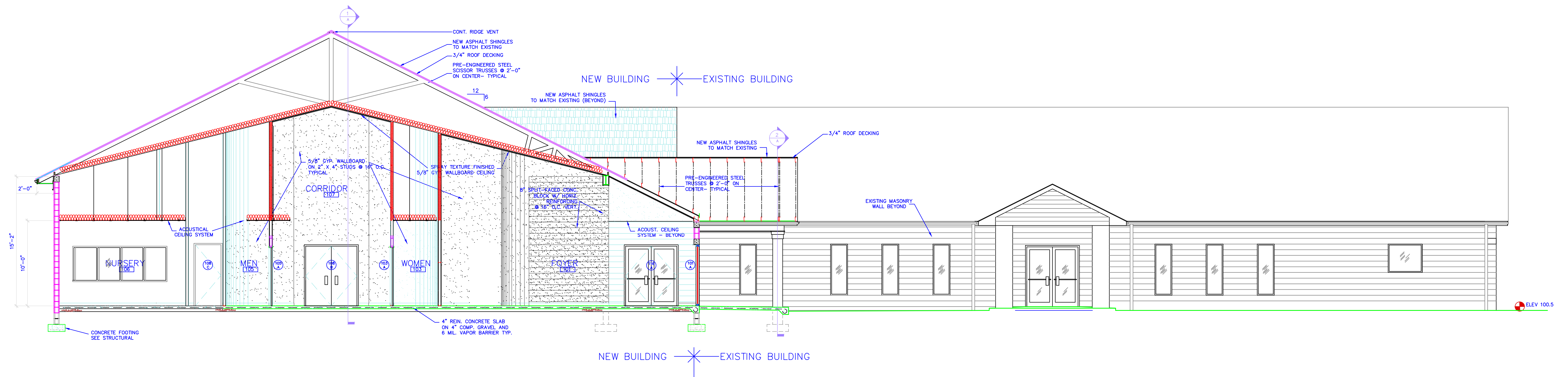
EXTERIOR ELEVATIONS AND DETAIL
ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION



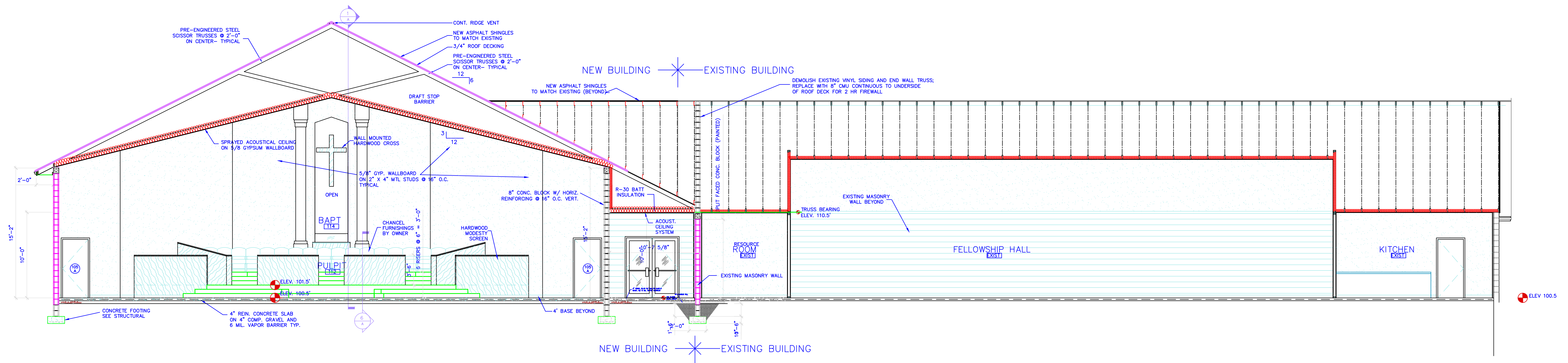
1
A15
BUILDING SECTION I
SCALE: 1/4" = 1'-0"



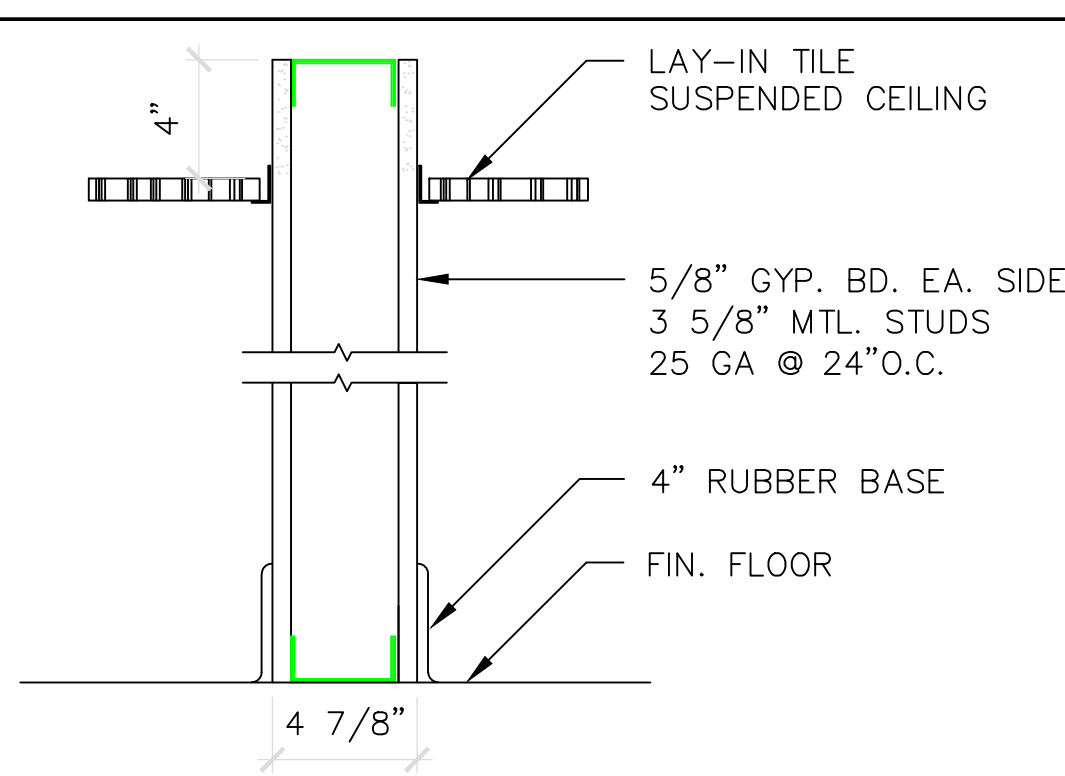
2
A15
BUILDING SECTION II
SCALE: 1/4" = 1'-0"



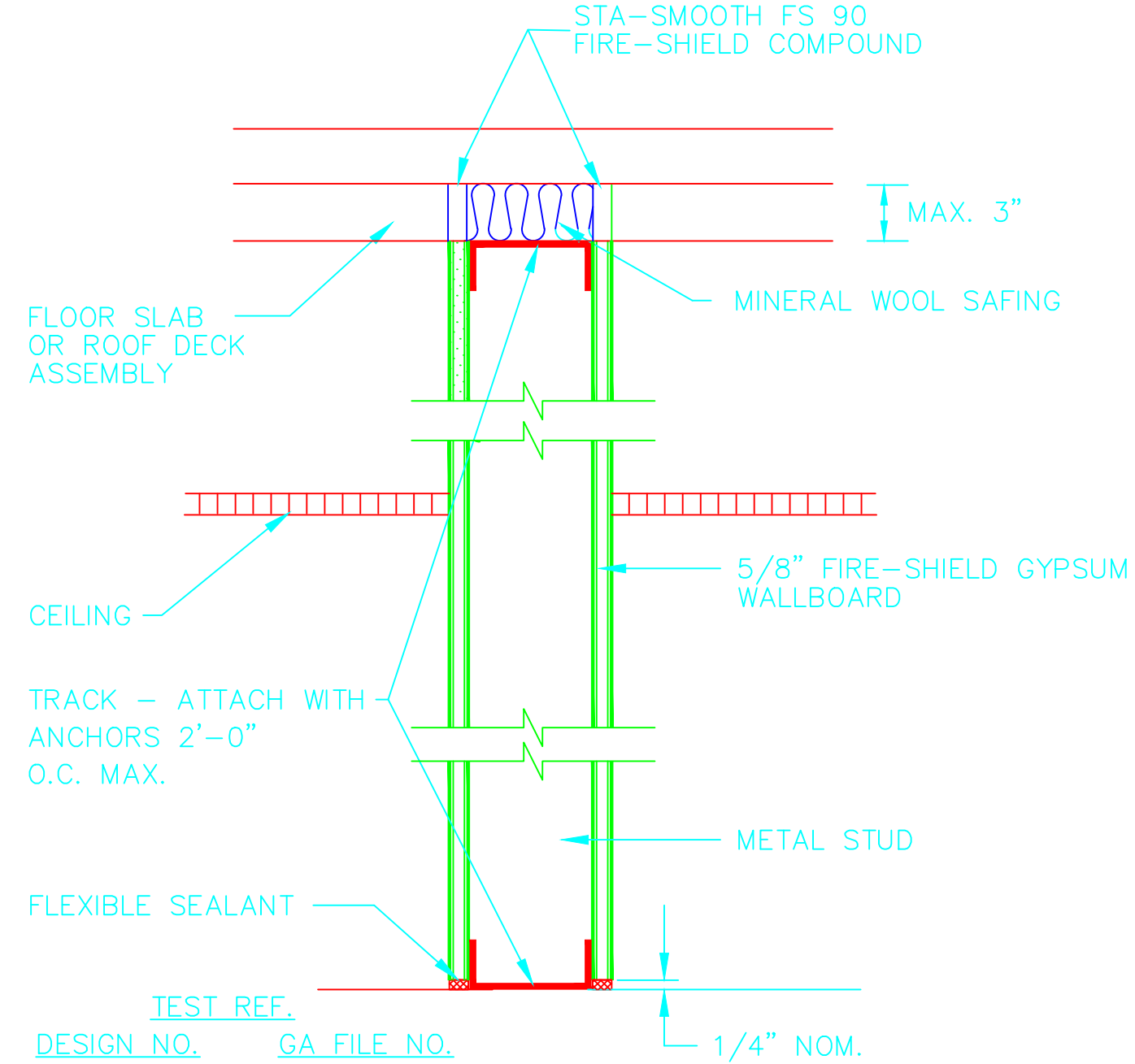
1 BUILDING SECTION III
SCALE: 1/4" = 1'-0"



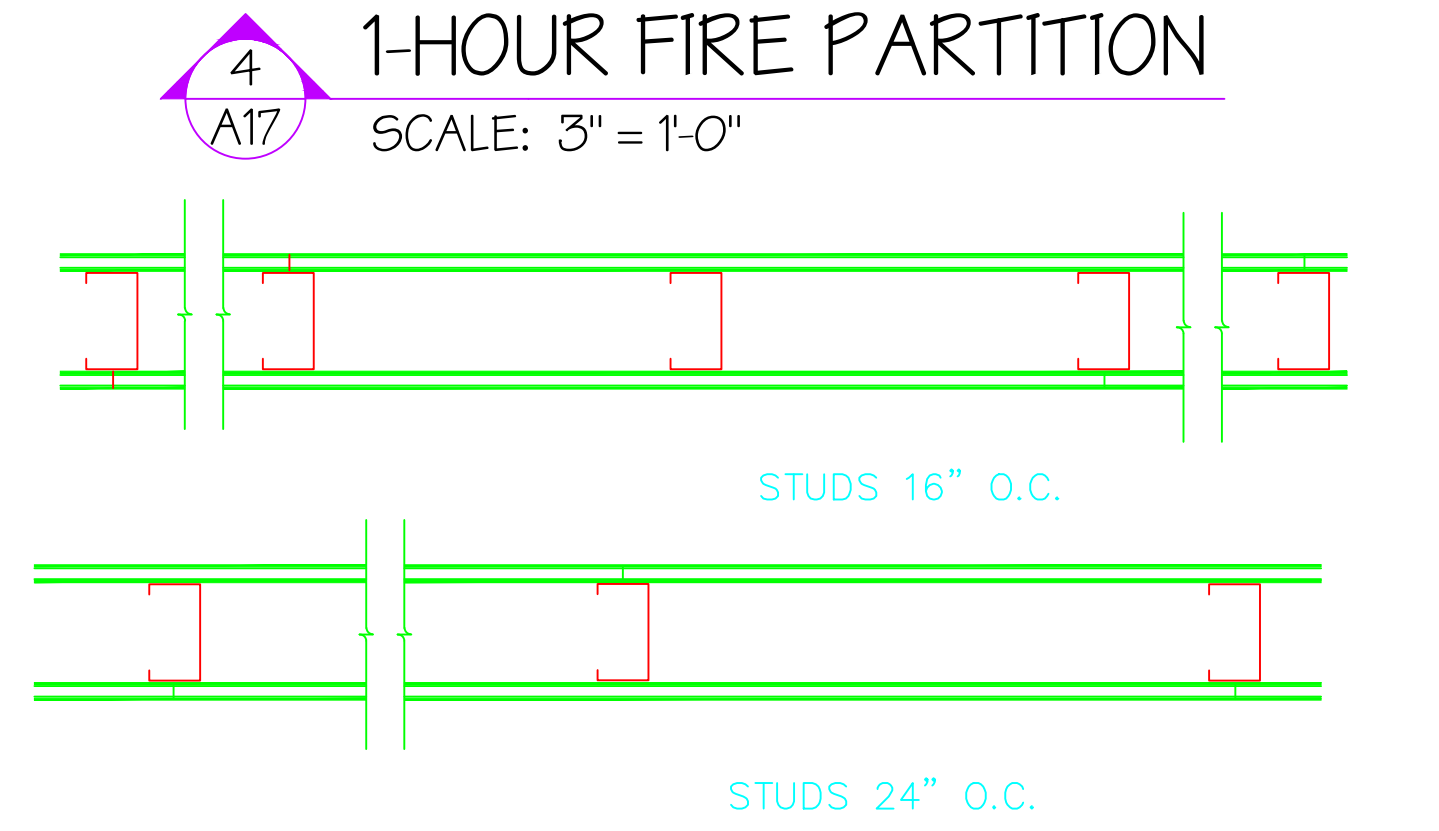
2 BUILDING SECTION IV
SCALE: 1/4" = 1'-0"



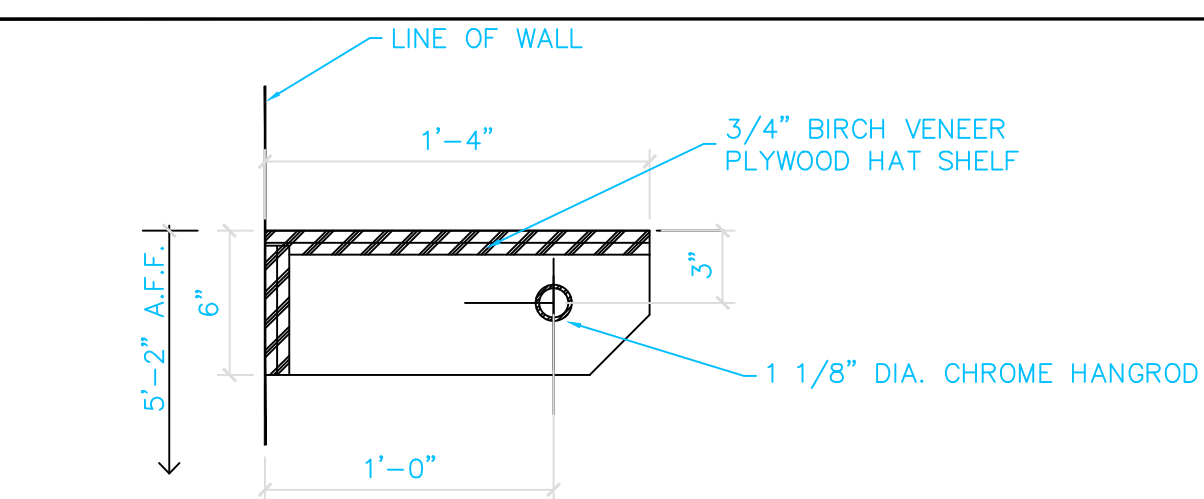
1 NON-RATED PARTITION
SCALE: 1 1/2" = 1'-0"



4 1-HOUR FIRE PARTITION
SCALE: 3" = 1'-0"

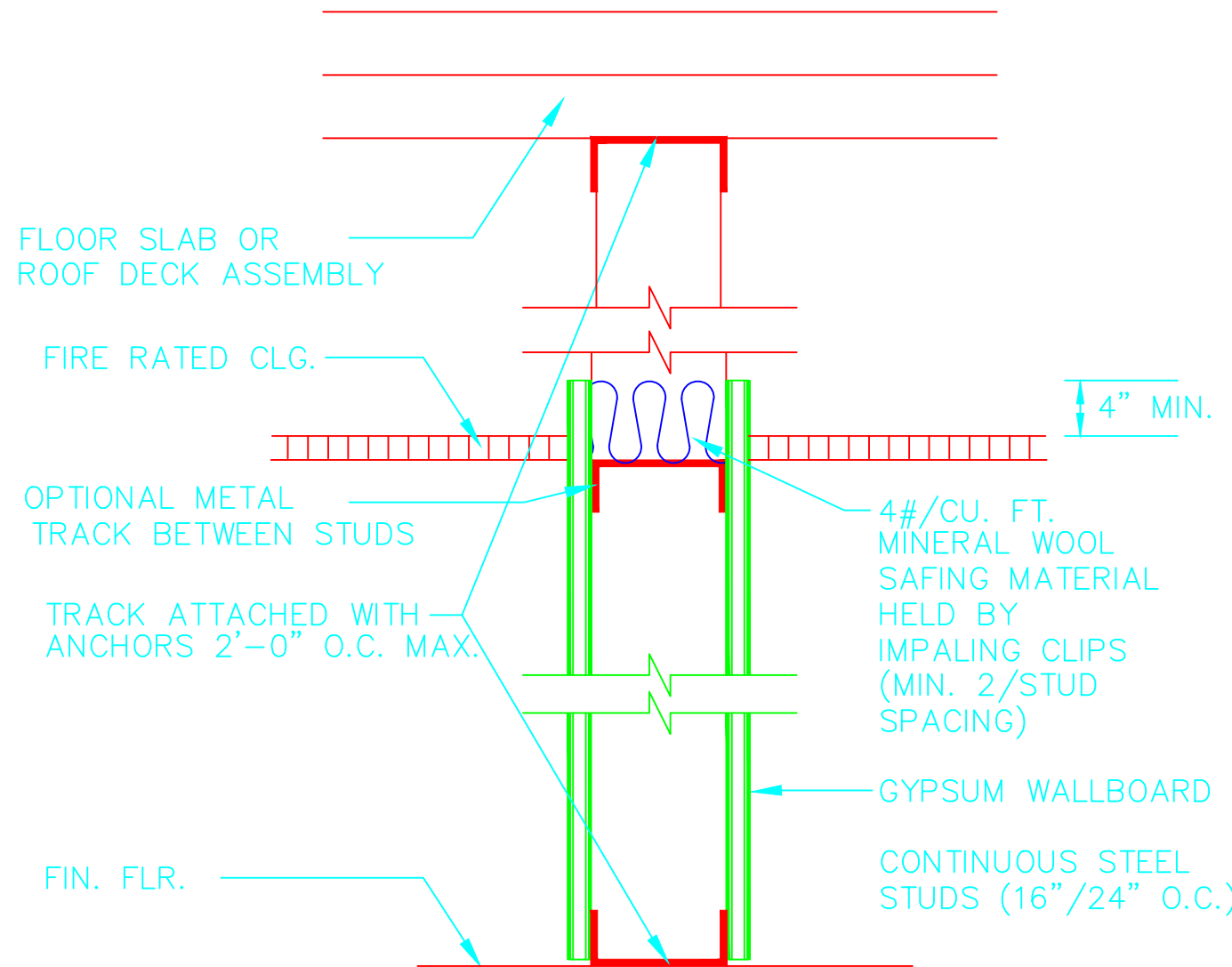


10 1 HOUR RATED WALL DETAIL
SCALE: 1 1/2" = 1'-0"

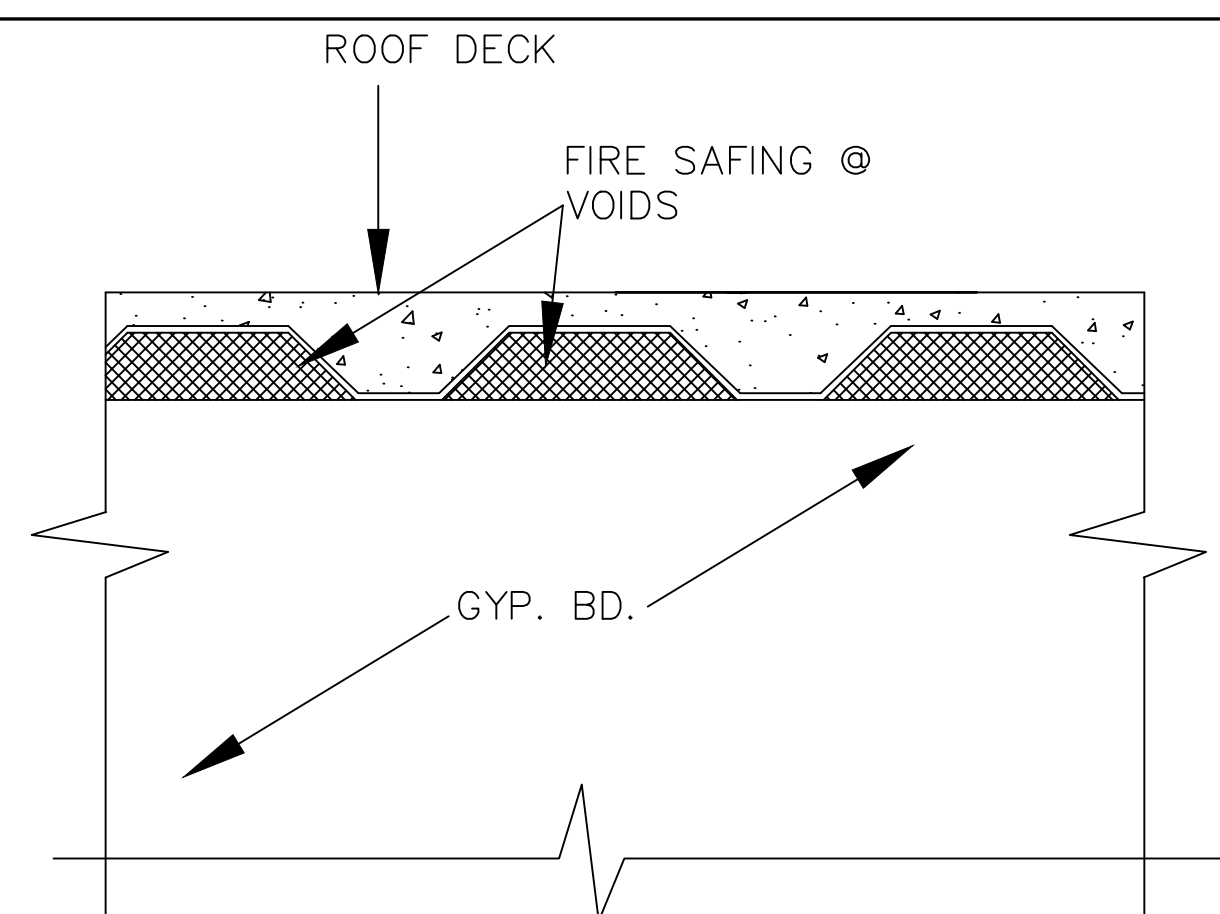


NOTES:
ALL BIRCH PLYWOOD TO BE CLEAR LACQUER FINISH.
1" BIRCH PLYWOOD VERTICAL DIVIDERS TO BE PROVIDED WHEREVER SHELF SPAN IN EITHER TYPE OF CLOSET EXCEEDS 3'-0".

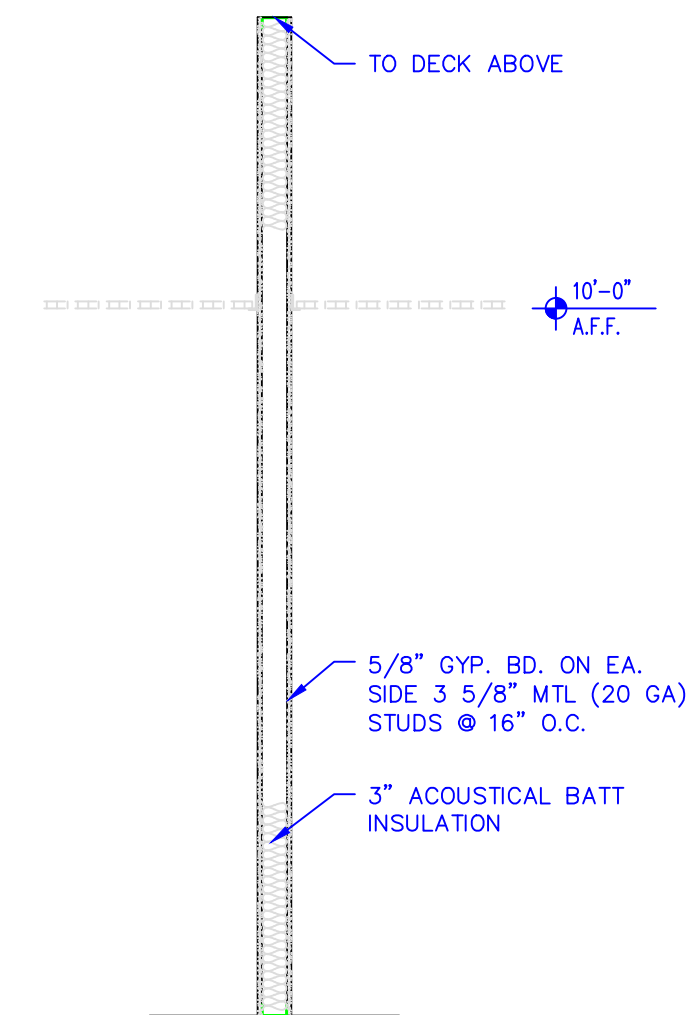
2 CLOSET SHELF DETAIL
SCALE: 1 1/2" = 1'-0"



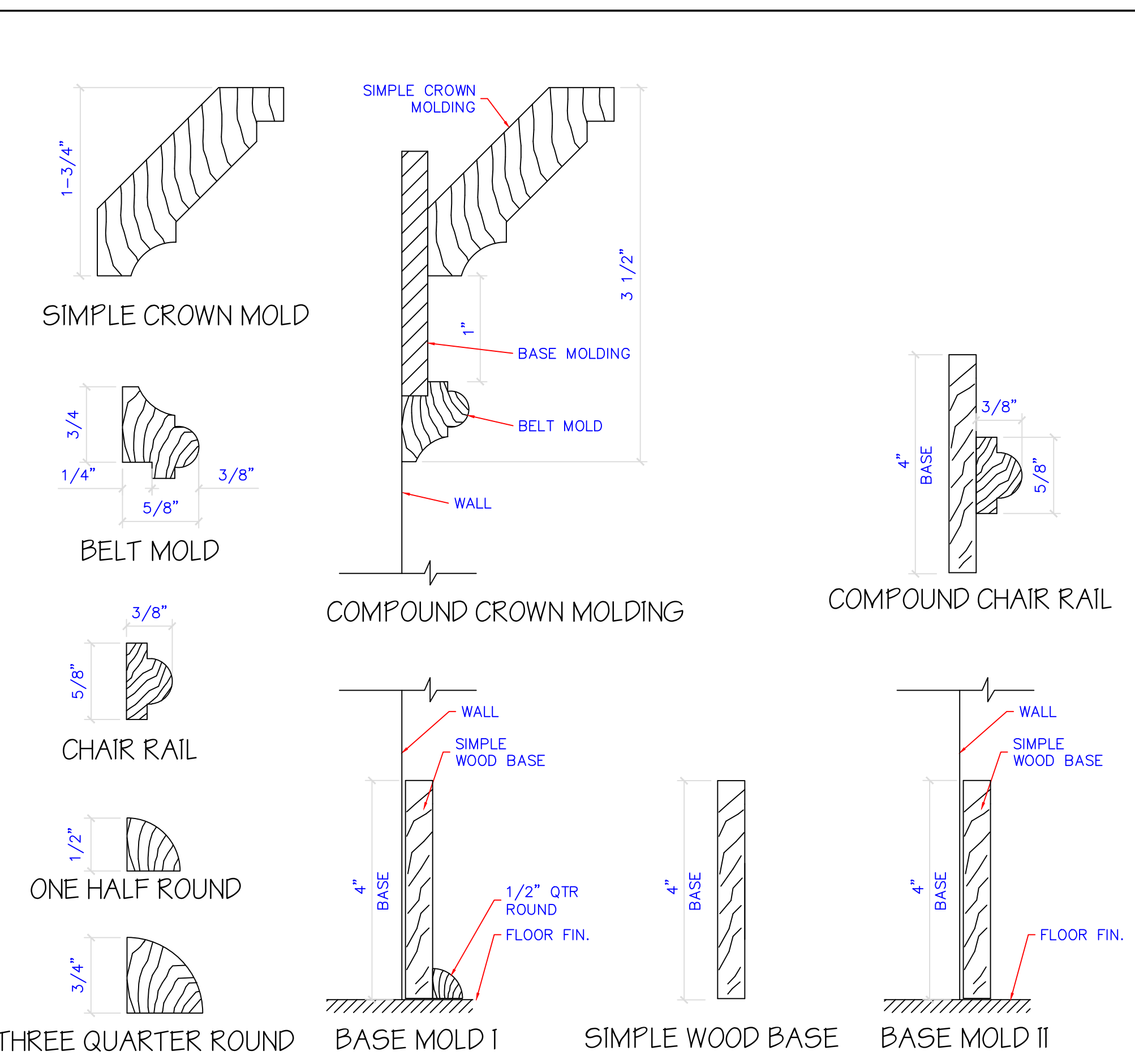
5 NON-RATED PARTITION
SCALE: 3" = 1'-0"



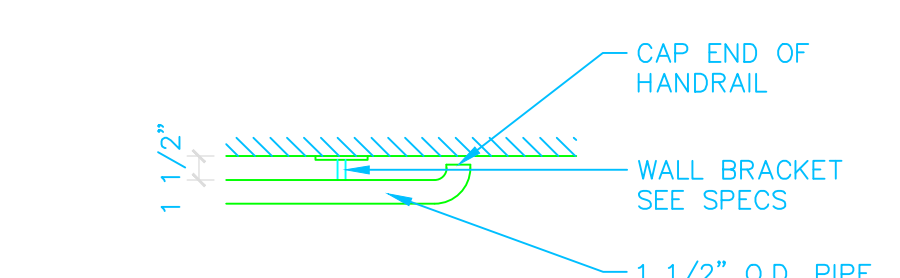
3 FIRE SAFING DETAIL
SCALE: 1 1/2" = 1'-0"



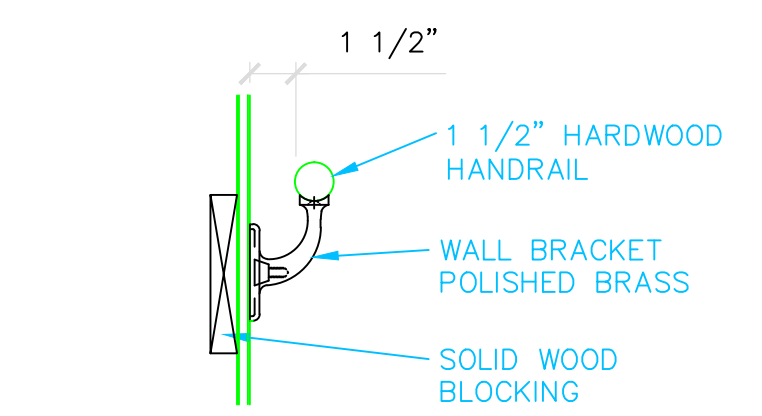
6 TOILET WALL SECTION
SCALE: 1/2" = 1'-0"



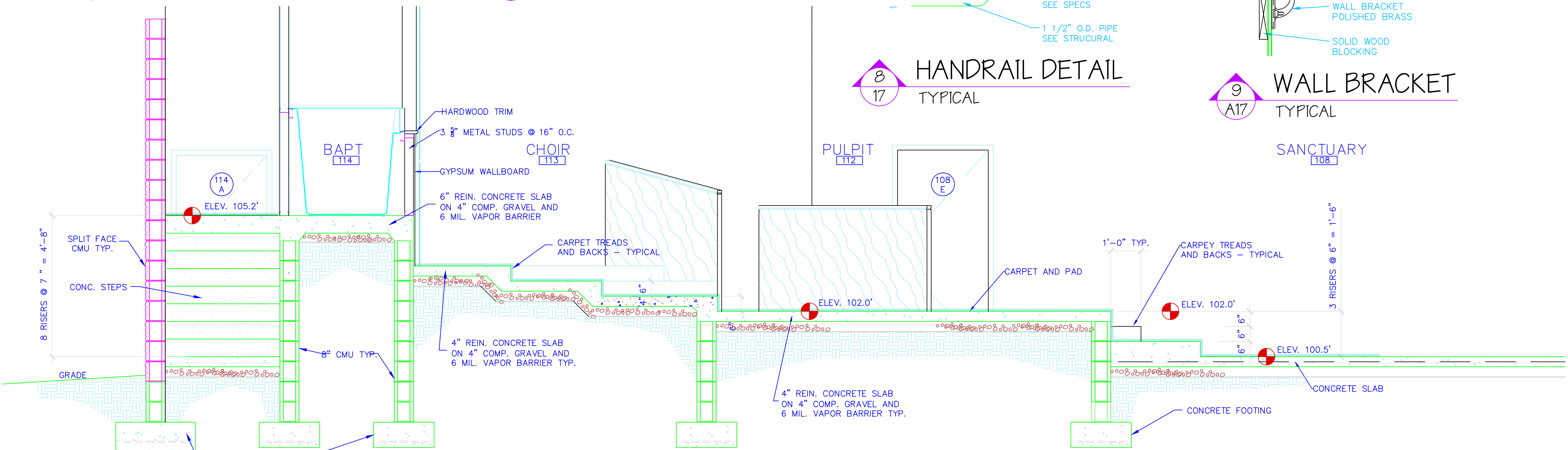
7 WOOD MOLDING DETAILS
TYPICAL



8 HANDRAIL DETAIL
TYPICAL

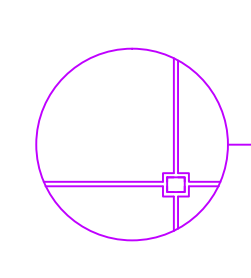


9 WALL BRACKET
TYPICAL



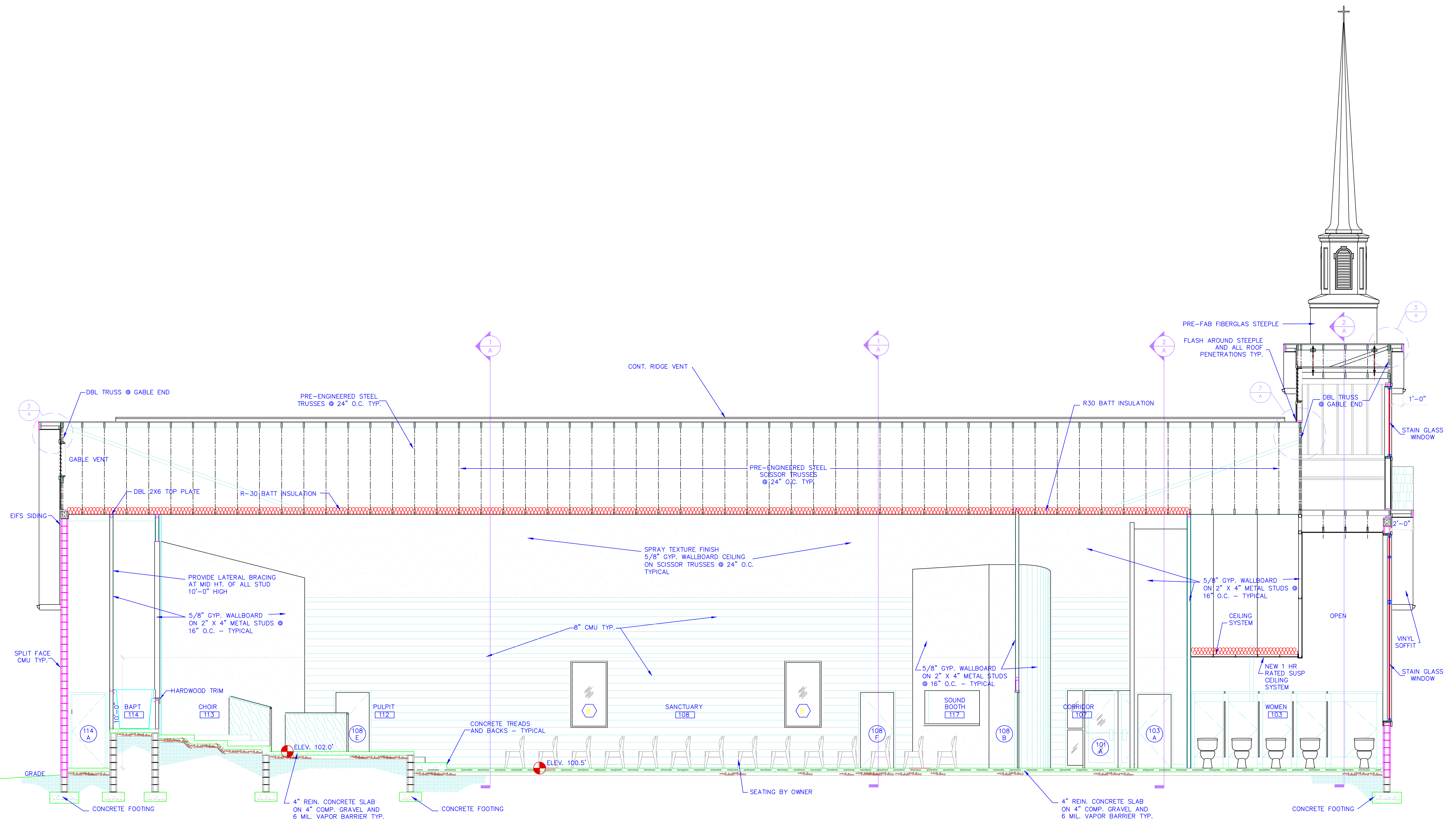
11 PLATFORM SECTION
SCALE: 1/2" = 1'-0"

NOTE: DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.
ALL INTERIOR PARTITIONS ARE 1-HOUR CONSTRUCTION PER IBC 1

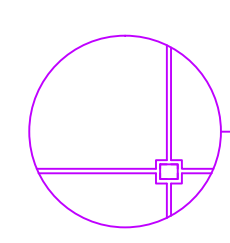
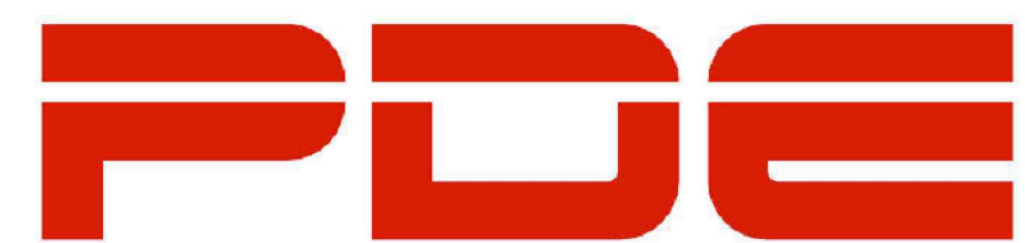


BUILDING SECTIONS DETAIL AND SCHEDULE

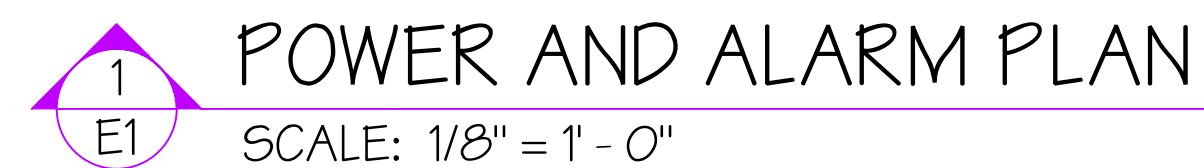
ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION



1
A18 LONGITUDINAL DETAIL
SCALE: 1/4" = 1'-0"



LONGITUDINAL SECTION
ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION



DIMMING SYSTEM SPECIFICATIONS

SYSTEM SHALL BE SIMILAR AND EQUAL TO LUTRON "PRE-PACK" TO INCLUDE MAIN DIMMER PANEL RATED FOR 120vol VOLTS, 3 PHASE, 4 WIRE INPUT AND 120VOLT LUTRON 10 AMPERE PROUIT BREAKERS. PROVIDE ONE (1) MAIN CONTROL STATION LOCATED AT THE SCENE CONSOLE, TWO (2) REMOTE ON/OFF STATIONS LOCATED IN THE SANCTUARY, ONE (1) REMOTE ON/OFF STATION AT THE BAPTISTRY. MAIN CONTROL STATION SHALL PROVIDE INDIVIDUAL ZONE CONTROL AS WELL AD PRESET SCENE CONTROL. REFER TO SCHEDULE BELOW FOR SYSTEM REQUIREMENTS:

<u>ZONE #</u>	<u>LOAD</u>	<u>#20 AMP C/B</u>	<u>SERVICE</u>
1	8.10 KW	6	SANCTUARY CHANDELIERS
2	1.52 KW	1	BALCONY CHANDELIERS
3	2.70 KW	2	SANCTUARY CHANDELIERS – FRONT
4	2.10 KW	2	SANCTUARY CHANDELIERS – FRONT
5	1.80 KW	1	CHOIR FLOODLIGHTS
6	0.60 KW	1	PULPIT FLOODLIGHTS
7	0.60 KW	1	BAPTISTRY FLOODLIGHTS

SUMMARY:

ZONES: 7
LOAD: 17.42 KW
CKTS: 14 @ 20 AMP/SINGLE POLE

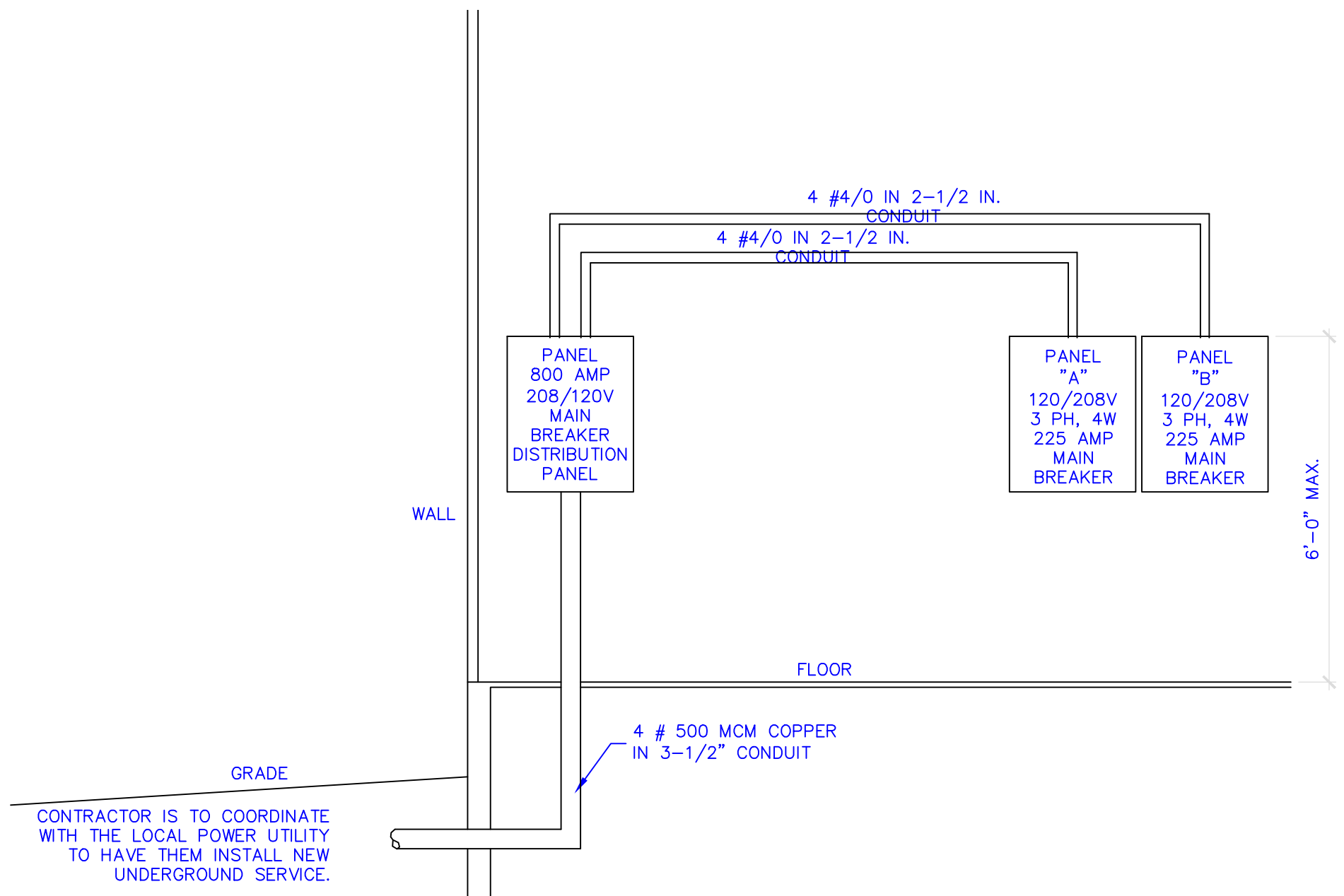
NOTES:

1. CKT. HB-1 FOR EXIT/EMERGENCY LIGHTS TO BE #10 AWG THROUGHOUT.
2. COORDINATE MOUNTING HEIGHTS OF TYPES 'M' AND 'N' WITH OWNERS REPRESENTATIVE.
3. JUNCTION BOX IN STEEPLE, FURNISH AND INSTALL THREE (3) TYPE 'D' TO ILLUMINATE AS DIRECTED BY OWNERS REPRESENTATIVE.

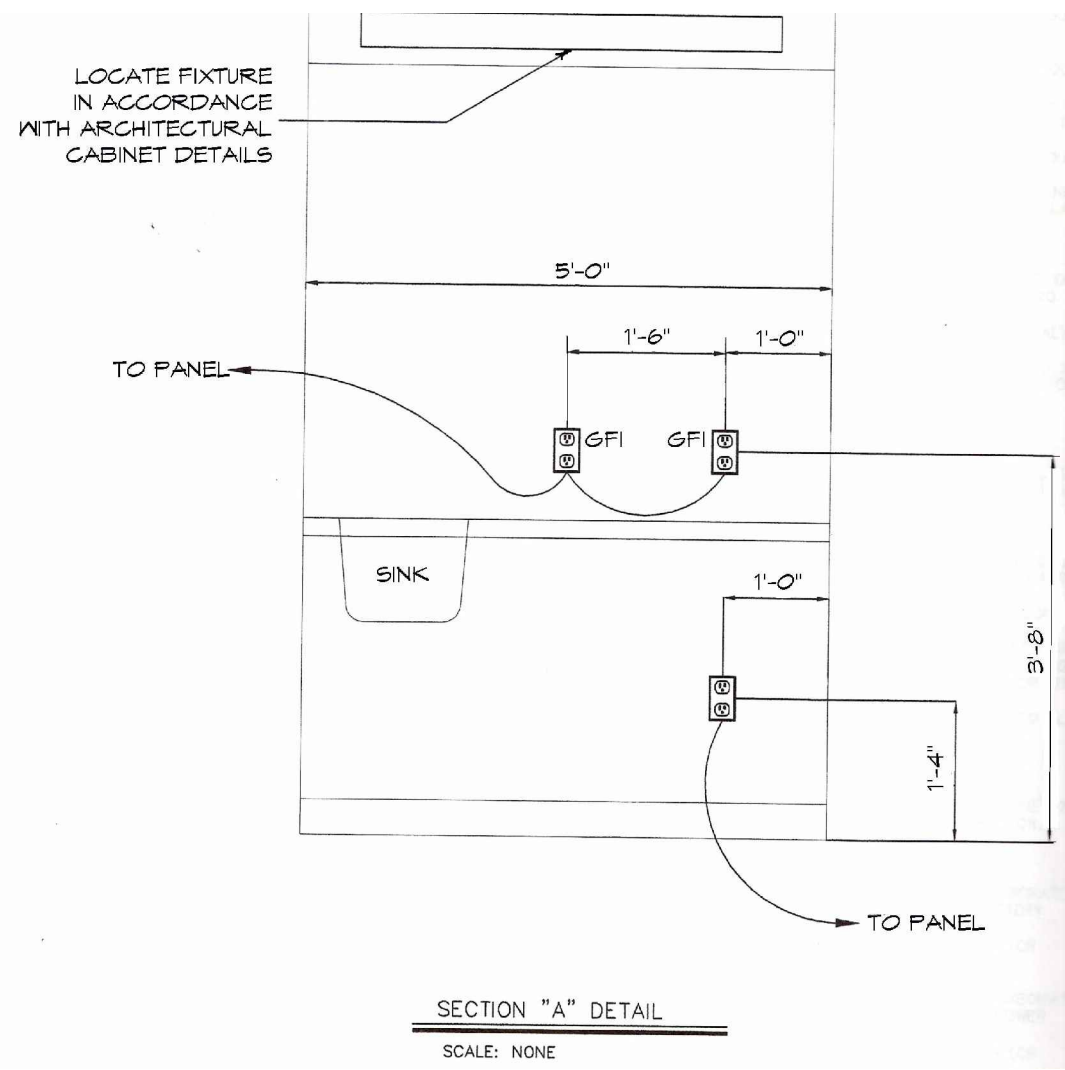


NOTE: 1. ELECTRICAL SHALL BE DONE IN ACCORDANCE WITH STATE, LOCAL AND FEDERAL CODES THAT GOVERN AND SHALL BE DONE IN A FIRST CLASS MANNER. THE DRAWING IS SCHEMATIC AND IN NO WAY RELIEVES THE CONTRACTOR OF CODE COMPLIANCE.

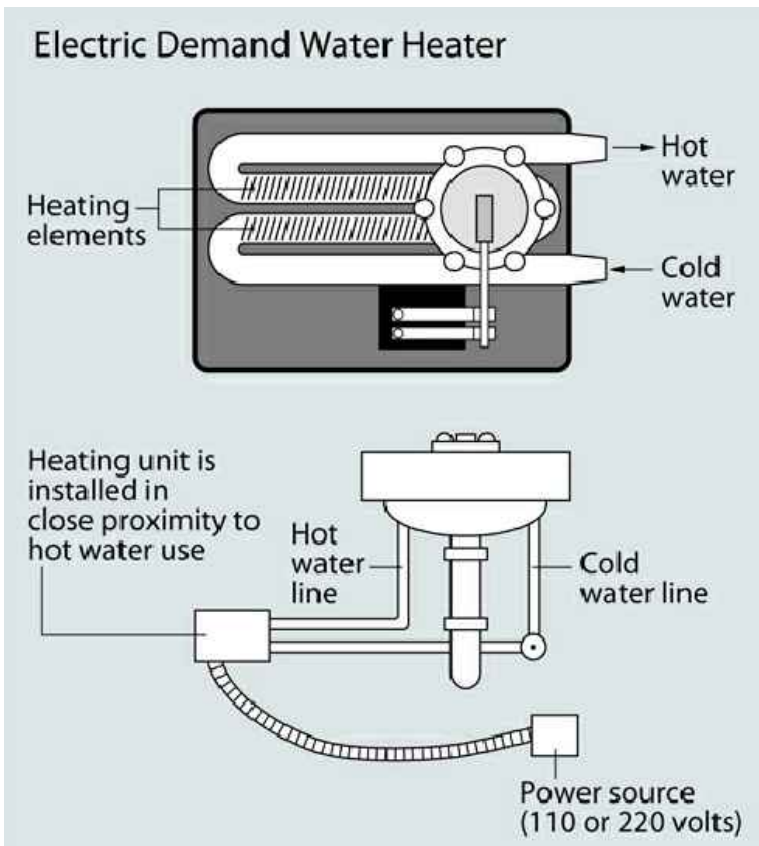
2. ELECTRICAL POWER AND CIRCUIT DESIGN SHALL BE PROVIDED BY A DESIGN-BUILD ELECTRICAL CONTRACTOR EMPLOYED BY THE OWNER.



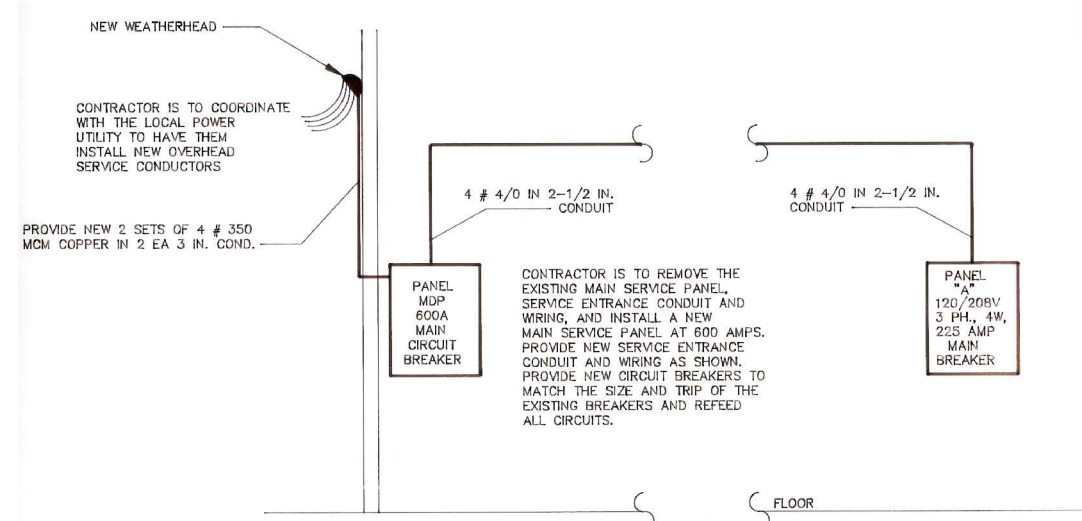
1
E2
ELECTRICAL RISER DIAGRAM 2
TYPICAL



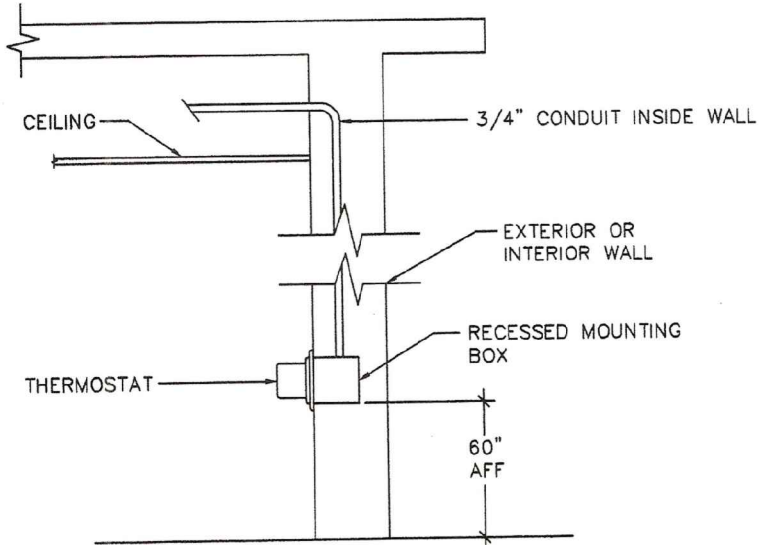
2
E2
OUTLET PLACEMENT DETAIL
TYPICAL



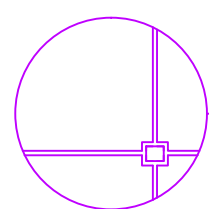
3
E2
ON-DEMAND WATER HEATER DETAIL
TYPICAL



4
E2
ELECTRICAL RISER DIAGRAM 1
TYPICAL



5
E2
THERMOSTAT CONDUIT DETAIL
TYPICAL



ELECTRICAL SECTION AND DETAIL

ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION

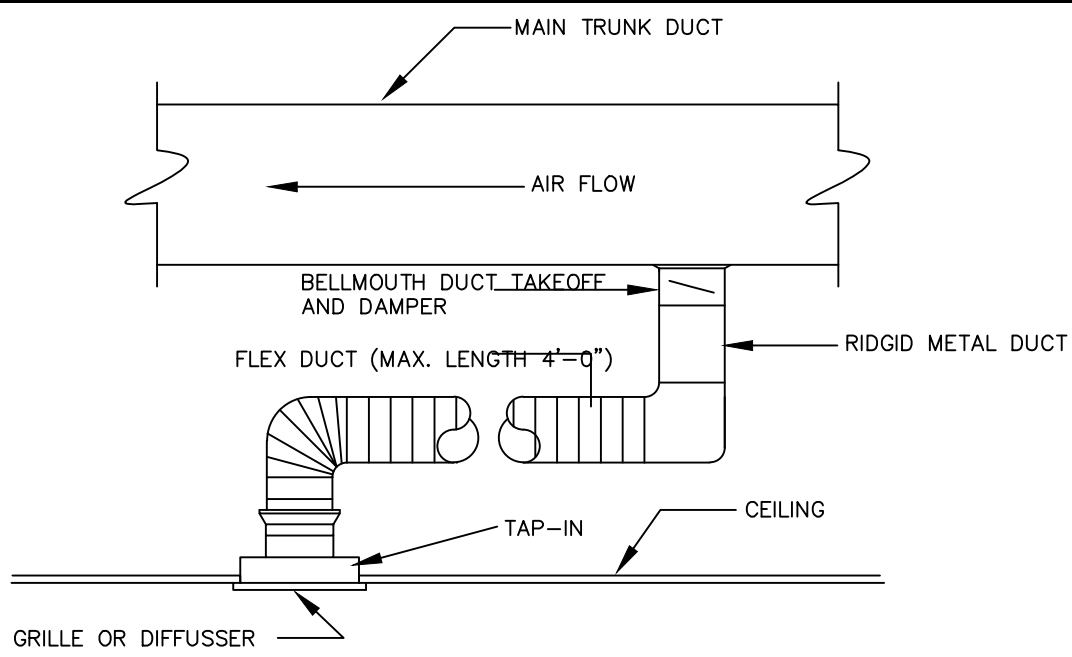
ELECTRICAL NOTES:

- ALL WORK SHALL CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE STATE AND LOCAL CODES.
- THE ELECTRICAL DRAWINGS WHICH SHOW THE WORK INCLUDED ARE DIAGRAMMATIC ONLY; THE LOCATIONS, ROUTING, ETC., OF THE VARIOUS FIXTURES, ITEMS OF EQUIPMENT, WIRING, ETC., ARE APPROXIMATE ONLY. THE ENTIRE INSTALLATION IS SUBJECT TO SUCH DEVIATIONS, MODIFICATIONS, REROUTING, ETC., AS MAY BE NECESSARY TO MEET THE REQUIREMENTS OF THE ARCHITECTURAL, STRUCTURAL, AND OTHER DRAWINGS; AND ALSO AS NECESSARY TO OBTAIN A PROPER COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES.
- ALL GROUND FAULT CIRCUIT INTERRUPTING (GFI) RECEPTACLES SHALL BE 20 AMPERE (HUBBELL CATALOG NO. GF5352, OR EQUAL).
- ALL EXTERIOR RECEPTACLES AND DISCONNECT DEVICES SHALL BE RATED NEMA 3R AS A MINIMUM.
- RECEPTACLE WIRE SHALL BE #12AWG COPPER WIRE, EXCEPT AS NOTED, TYPE THHN.
- LUMINAIRE WIRE SHALL BE #12AWG COPPER WIRE, TYPE THHN, UNLESS OTHERWISE NOTED.
- ALL LUMINARIES AND RECEPTACLES SHALL BE GROUNDED TO THE GROUND BUS OF THE POWER DISTRIBUTION PANEL FROM WHICH THEY ARE FED. THIS GROUND WIRE SHALL BE #12AWG WITH A GREEN JACKET. ALL GROUND WIRE SHALL BE SIZED IN ACCORDANCE WITH NEC 250-95.
- UNLESS OTHERWISE NOTED, SWITCH LOCATIONS ARE SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL PLANS FOR DOOR SWINGS TO ENSURE PROPER SWITCH PLACEMENT.
- VERIFY ALL CASEWORK HEIGHTS TO INSURE THAT ALL OUTLETS ABOVE CASEWORK ARE AT THE PROPER HEIGHT.
- VERIFY THE EXACT LOCATION OF ALL MOTORS AND EQUIPMENT OF ELECTRICAL AND OTHER TRADES BEFORE BEGINNING ELECTRICAL WORK. ALSO ADVISE OTHER TRADES OF THE LOCATION OF ELECTRICAL WORK WHICH WILL AFFECT THEIR WORK PRIOR TO THE INSTALLATION OF THE ELECTRIC WORK.
- ALL WALL OUTLETS ARE TO BE LOCATED 12 INCHES ABOVE THE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- ROUTING OF SERVICE FEEDERS AND LOCATION OF METERING EQUIPMENT SHALL BE COORDINATED WITH LOCAL UTILITY.
- ELECTRICAL CONTRACTOR SHALL ARRANGE TEMPORARY POWER TO THE SITE WITH THE LOCAL UTILITY. ELECTRICAL CONTRACTOR SHALL ENSURE THAT THE PROPER VOLTAGE AND PHASING IS AVAILABLE.
- ELECTRICAL CONTRACTOR SHALL SUPPLY ALL CONDUIT, CONDUIT FITTINGS, ETC. CONDUITS SHALL BE SIZED IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRIC CODE.
- ALL SURFACE MOUNTED FLUORESCENT FIXTURES ARE TO BE MOUNTED ON 1-1/2 INCH CEILING SPACERS TO ALLOW AIR CIRCULATION AND PREVENT BALLAST BURNING.
- ELECTRICAL CONTRACTOR SHALL VERIFY THAT ALL EXHAUST FANS ARE EQUIPPED WITH VENDOR SUPPLIED OVER-LOAD RELAYS AND ELECTRICAL DISCONNECT SWITCHES.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR TO INSTALL EXHAUST FANS AND ANY NECESSARY CONDUIT TO SUPPORT INSTALLATION OF HVAC THERMOSTATS, ETC.
- ELECTRICAL CONTRACTOR SHALL VERIFY THAT ALL MOTORS INSTALLED ON THIS PROJECT ARE EQUIPPED WITH VENDOR SUPPLIED MOTOR OVERLOAD PROTECTIVE DEVICE.
- UNLESS OTHERWISE NOTED, ALL CIRCUITS PROTECTED BY EITHER A 15 OR 20 AMPERE CIRCUIT BREAKER SHALL BE SUPPLIED VIA #12AWG COPPER CABLE.

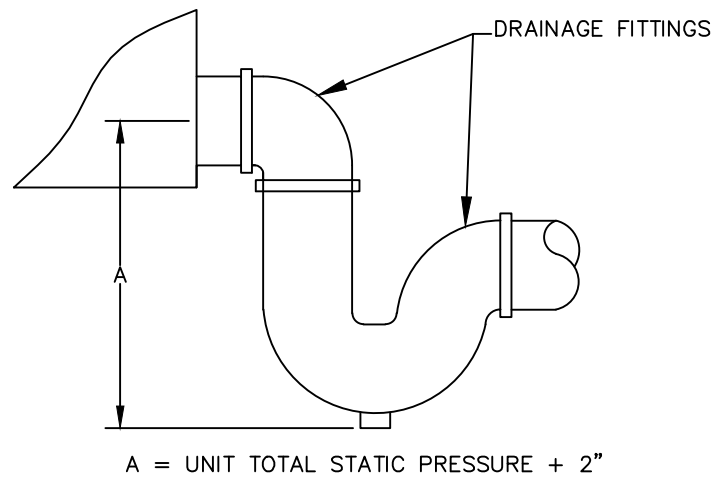
- FUSED AND NON-FUSED DISCONNECT SWITCHES ARE SHOWN. ALL MOTORS ARE TO BE PROVIDED WITH VENDOR SUPPLIED MOTOR STARTERS. IF THE VENDOR SUPPLIED MOTOR STARTER IS EQUIPPED WITH AN EQUIVALENT DISCONNECT (WITH OR WITHOUT FUSES, AS REQUIRED) THE VENDOR SUPPLIED MOTOR STARTER MAY BE USED IN LIEU OF THE ELECTRICAL CONTRACTOR SUPPLIED DISCONNECT SWITCH IN CONJUNCTION WITH THE MOTOR STARTER.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF FIRE ALARM SYSTEM. THIS EQUIPMENT WILL BE VENDOR INSTALLED. THE FIRE ALARM SYSTEM WILL BE SUPPLIED VIA 120VAC CIRCUIT INDICATED ON PANEL SCHEDULES.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR TO INSTALL WALL BOXES AND CONDUIT TO SUPPORT HVAC THERMOSTAT INSTALLATION.
- CHECK MOTOR ROTATION AND CONNECT FOR PROPER ROTATION. CHECK OVERLOAD HEATER ELEMENT FURNISHED WITH STARTERS AGAINST NAMEPLATE RATING OR MOTOR AND CODE. CALL ATTENTION TO IMPROPER SIZES TO MECHANICAL CONTRACTOR AND ARCHITECT. ELECTRICAL CONTRACTOR SHALL VERIFY THAT ALL MOTORS ARE EQUIPPED WITH VENDOR SUPPLIED OVERLOAD DEVICES. CONNECT ALL MOTORS WITH SHORT LENGTH OF FLEXIBLE CONDUIT PROPER TYPE; CONNECTOR WITH THE TYPE CONDUIT. CONNECT ALL MOTORS AND CONTROLS COMPLETELY, NEATLY, ORDERLY, AND PROPERLY TAGGED TO PROPER OPERATION OF SYSTEM INVOLVED.
- FURNISH AND INSTALL ALL CONDUIT AND WIRING NECESSARY FOR THE POWER SUPPLY OF PLUMBING AND HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT. ALL STARTERS, OVERLOAD DEVICES, AND CONTROL DEVICES WILL BE FURNISHED WITH THE EQUIPMENT WITH WHICH THEY OPERATE AND THEY SHALL BE INSTALLED AS A PART OF THE ELECTRICAL WORK. FURNISH AND INSTALL DISCONNECT SWITCHES WITH THE MOTORS WHERE REQUIRED BY THE NATIONAL ELECTRIC CODE. REFER TO THE PLUMBING, HEATING, AND AIR CONDITIONING DRAWINGS AND SPECIFICATIONS.
- CHECK SERVICE REQUIRED BY EQUIPMENT PRIOR TO MAKING FINAL CONNECTIONS. CALL DIFFERENCES TO ATTENTION OF ARCHITECT. CHECK EQUIPMENT FOR PROPER PROTECTIVE DEVICES AND SAFETY DEVICES TO ALLOW PROPER OPERATION OF EQUIPMENT AND PREVENT BURNOUT. ASSIST OWNER IN INITIAL OPERATION OF EQUIPMENT AND MAKE NECESSARY ADJUSTMENT FOR PROPER OPERATION.
- GIVE ALL EQUIPMENT FURNISHED IN THE CONTRACT AN OPERATIONAL TEST PRIOR TO FINAL ACCEPTANCE. ASSIST THE OWNER IN THE INITIAL OPERATION WHEN THE OWNER OPERATES THE BUILDING AND EQUIPMENT. INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF ALL THE EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS.
- COORDINATE ELECTRICAL WORK WITH ROOFING WORK IN REGARD TO ANY ELECTRICAL ITEMS WHICH MAY PIERCE OR OTHERWISE AFFECT THE ROOF. HOLD CONSULTATION WELL IN ADVANCE OF THE INSTALLATION OF THE FINAL ROOFING AND ALLOW SUFFICIENT TIME FOR THE ROOFING WORK TO BE PREPARED FOR THE ELECTRICAL WORK. ARRANGE FOR ANY CUTTING OR REPAIRING TO ROOFING WHICH MIGHT ALREADY BE INSTALLED WHEN AN ELECTRICAL INSTALLATION IS MADE. SEE ROOFING SPECIFICATION FOR ROOFING WITH RELATION TO WORK OF OTHER TRADES PIERCING THE ROOF. IF NECESSARY CONSULTATION IS NOT HELD, ANY ROOF REPAIRS NECESSITATED BY THE ELECTRICAL INSTALLATION SHALL COME UNDER THE SCOPE OF THE WORK UNDER THIS SECTION.
- WHERE CONDUIT PENETRATES FIRE-RATED WALLS, THE SPACE BETWEEN THE PENETRATION ITEM AND THE FIRE BARRIER WALL SHALL BE PROPERLY PROTECTED. THE SPACE ADJOINING THE CONDUIT PENETRATION SHALL BE FILLED WITH MATERIAL CAPABLE OF MAINTAINING THE FIRE RATING OF THE FIRE BARRIER, OR IT SHALL BE PROTECTED BY AN APPROVED DEVICE DESIGNED FOR THIS SPECIFIC PURPOSE. WHERE PENETRATING SLEEVES ARE USED, THE SLEEVES SHALL BE SOLIDLY SET IN THIS FIRE BARRIER WALL, AND THE SPACE BETWEEN THE CONDUIT AND THE SLEEVE SHALL BE FILLED WITH MATERIAL CAPABLE OF MAINTAINING THE FIRE RESISTANCE OF THE FIRE-RATED WALL. ALL FIRE RATED WALL PENETRATIONS SHALL BE INSTALLED IN A MANNER THAT WILL PROVIDE AN UNDERWRITERS LABORATORIES (UL) LISTED PENETRATION ASSEMBLY.
- UNLESS OTHERWISE NOTED, ALL CABLE SUPPLYING LOADS SHALL BE SIZED TO PROVIDE AMPACITY EQUAL TO, OR GREATER, THAN THE SUPPLY CIRCUIT BREAKER TRIP RATING.
- EACH FIXTURE TYPE 'J' SHALL BE INSTALLED ATOP A 16-INCH DIAMETER CONCRETE PAD, INSTALLED TO A DEPTH OF 18 INCHES.

LIGHTING FIXTURE SCHEDULE								
MARK	DESCRIPTION	MANUFACTURER CATALOG NO.	VOLT	LAMPS			MOUNTING	
				QTY	WATTS	TYPE	LOCATION	AFF
A	2X4 4-LAMP FLUORESCENT TROFFER	LITHONIA 2SPG440A12-277-ES	277	4	34	F40CW/RS/WM	RECESS	CLG
B	2X4 4-LAMP FLUORESCENT TROFFER	LITHONIA 2SPG240A12-277-ES	277	2	34	F40CW/RS/WM	RECESS	CLG
C	2X4 4-LAMP FLUORESCENT TROFFER	LITHONIA 2SPG2U40A12-277-ES	277	2	34	F40CW/U/RS/WM	RECESS	CLG
D	4', 2-LAMP FLUORESCENT STRIP	LITHONIA C240-277-ES	277	4	34	F40CW/RS/WM	SURFACE	CLG
E	VAPORTIGHT INCANDESCENT	APPLETON VPOBW10G	120	1	100	A19	WALL	IN ELV PIT
F	SURFACE MOUNT INCANDESCENT DRUM	LITHONIA WUD	120	1	60	A19	SURFACE	CLG
G	RECESSED FLUORESCENT DOWNLIGHT	LITHONIA AF26Q17CR-120-HPF	120	2	26	F26DTT/27K	RECESS	CLG
H	FLUORESCENT WALL BRACKET	LITHONIA WC240A12-277-ES	277	2	34	F40CW/RS/WM	WALL	8'-0'
K	ADJUSTABLE, SINGLE UNIT FLOOD	NL CORPORATION CH224	120	1	300	PAR56	SURFACE	CLG
L	ADJUSTABLE, DUAL UNIT FLOOD	NL CORPORATION CH225	120	2	300	PAR56	SURFACE	CLG
M	PENDANT MOUNT SANCTUARY FIXTURE	McFADDEN C409-12	120	1 5	300 75	VERIFY WITH MANUFACTURER	PENDANT	PER ARCH
N	PENDANT MOUNT FIXTURE-COMPANION FIXTURE FOR SANTUARY	McFADDEN C409-10	120	1 3	200 60	VERIFY WITH MANUFACTURER	PENDANT	PER ARCH
R	SQUARE RECESSED HID	LITHONIA LAH100M11RW7T3-277	277	1	100	MH100/C/U	RECESS	CLG
S	SQUARE RECESSED HID	LITHONIA LAH70M11RW7T3-277	277	1	70	M0/C/U/MED	RECESS	CLG
T	RECESSED INCANDESCENT DOWNLIGHT	LITHONIA R4CC	120	1	75	R20	RECESS	CLG
XA	UNIVERSAL MOUNT EXIT SIGN WITH BATTERY PACK, SINGLE FACE	LITHONIA FES1RELN-277	277	FWE	FWE	FWE	UNIVERSAL	AS NOTED
XB	WALL MOUNT EMERGENCY LIGHTING UNIT-DUAL HEAD	LITHONIA ELG2-277	277	FWE	FWE	FWE	SURFACE	AS NOTED

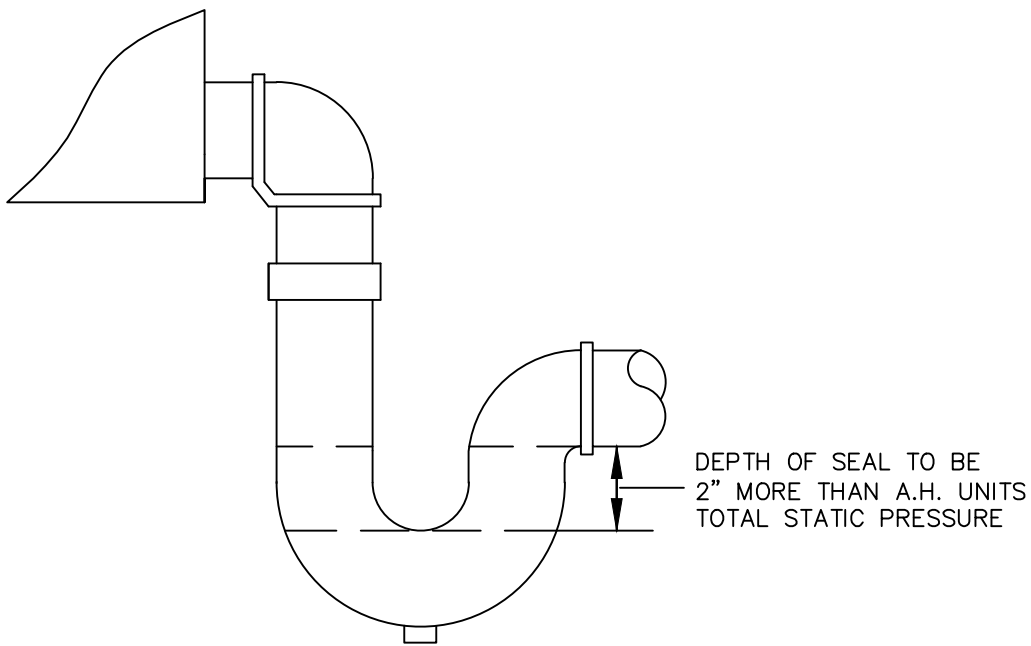
NOTE: ALL FLUORESCENT FIXTURES TO BE EQUIPPED WITH ENERGY SAVING LAMPS WITH BALLAST'S WHERE AVAILABLE.



1
M1
BRANCH DUCT DETAIL
TYPICAL

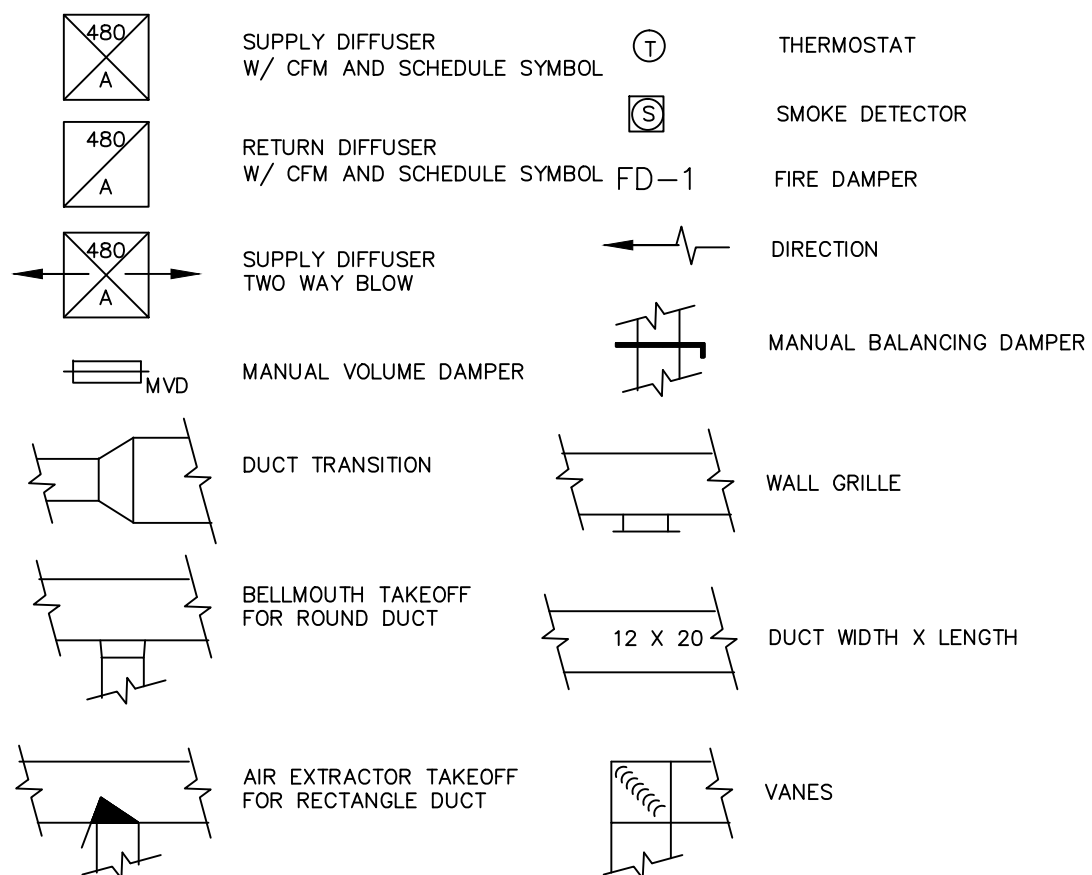


3
M1
DETAIL OF DRAIN AT UNITS
TYPICAL

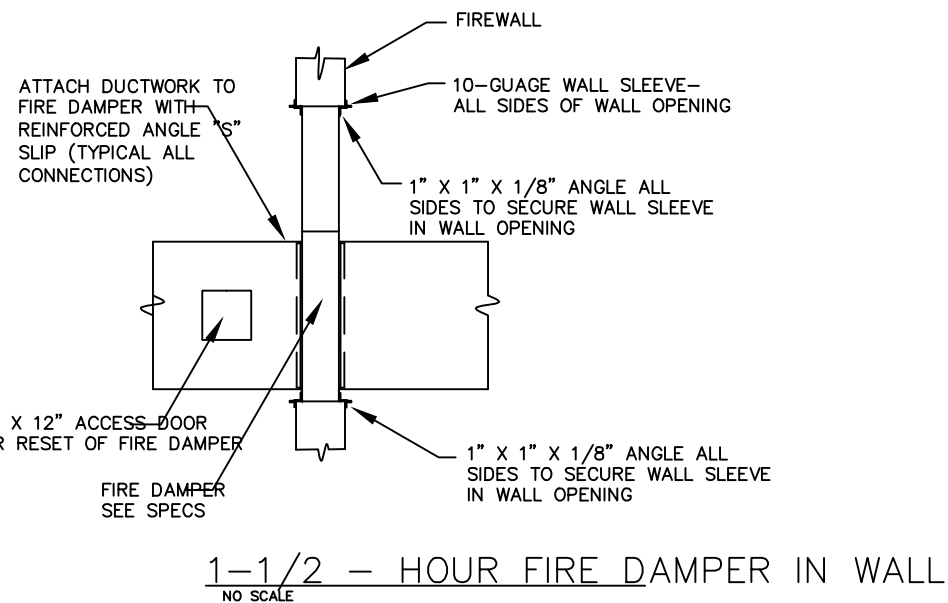


5
M1
A. H. UNIT DRAIN DETAIL
TYPICAL

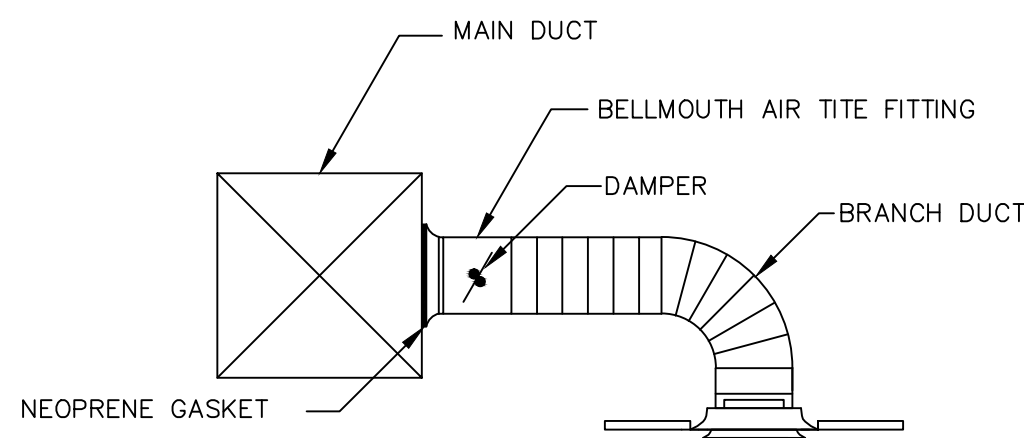
MECHANICAL SYMBOLS



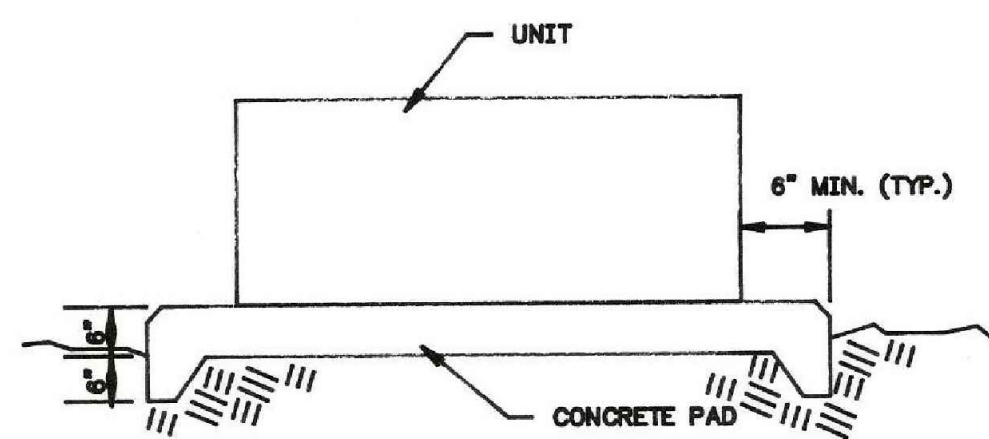
7
M1
MECHANICAL SYMBOLS
TYPICAL



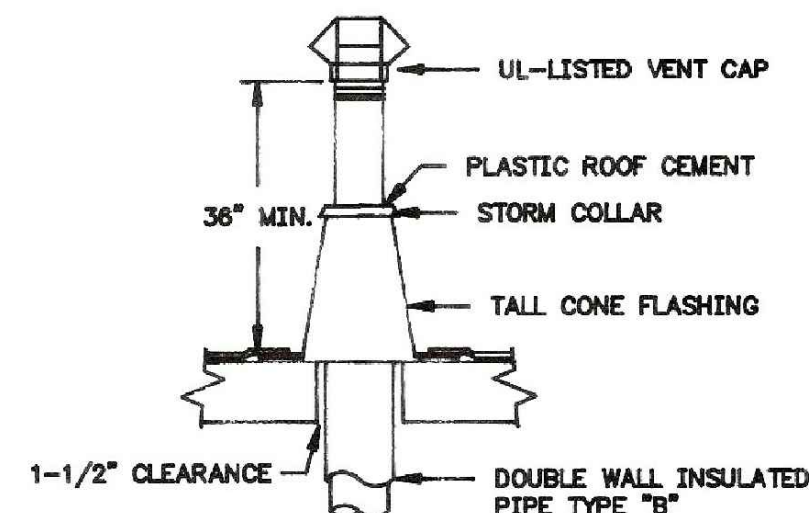
2
M1
1 1/2 HOUR FIRE DAMPER IN WALL
TYPICAL



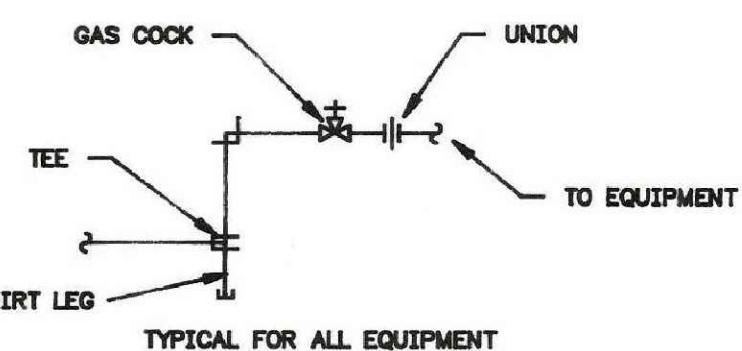
4
M1
BELLMOUTH DUCT TAKEOFF
TYPICAL



6
M1
CONCRETE PAD DETAIL
TYPICAL

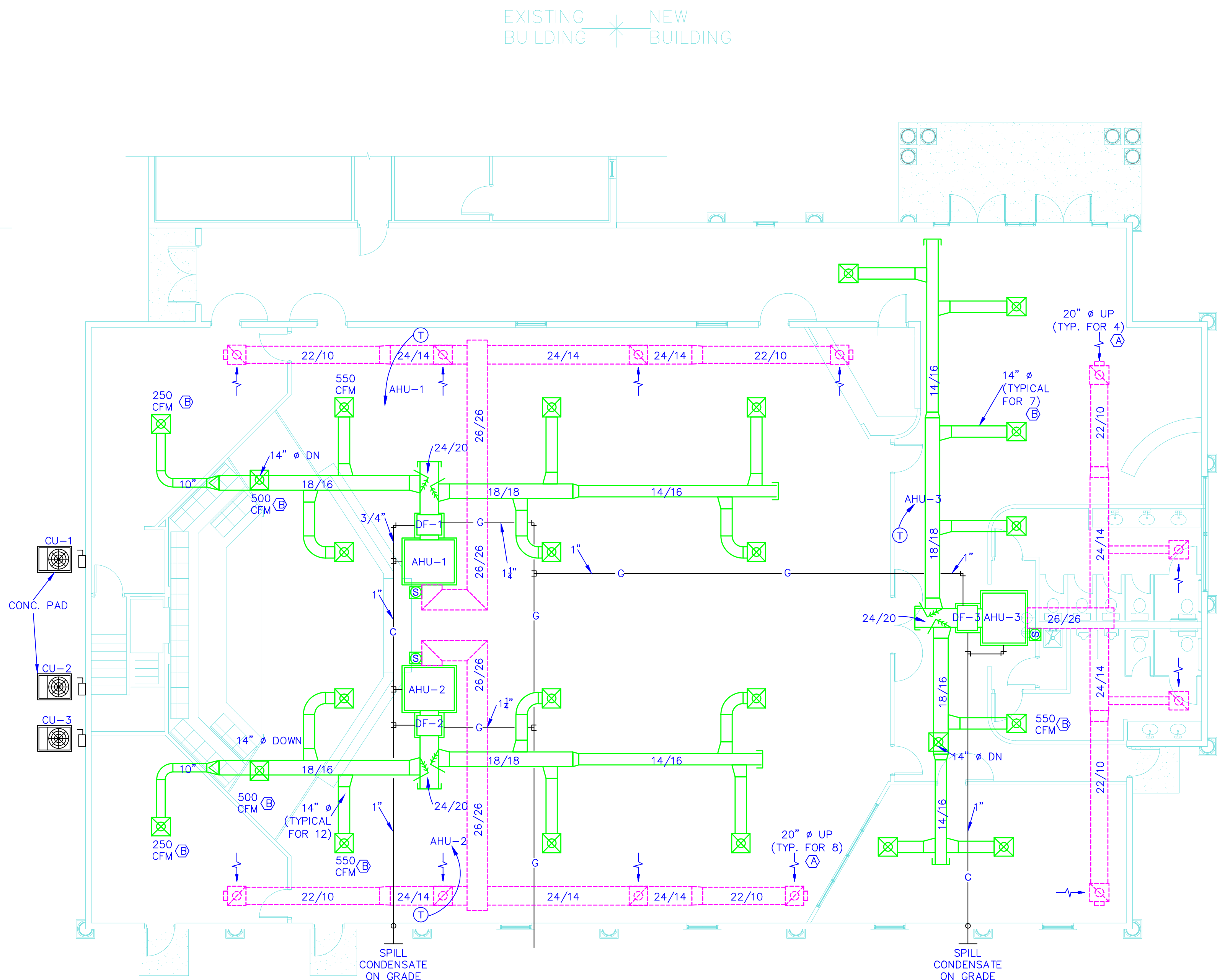


8
M1
GAS VENT THRU ROOF W/ CAP
TYPICAL

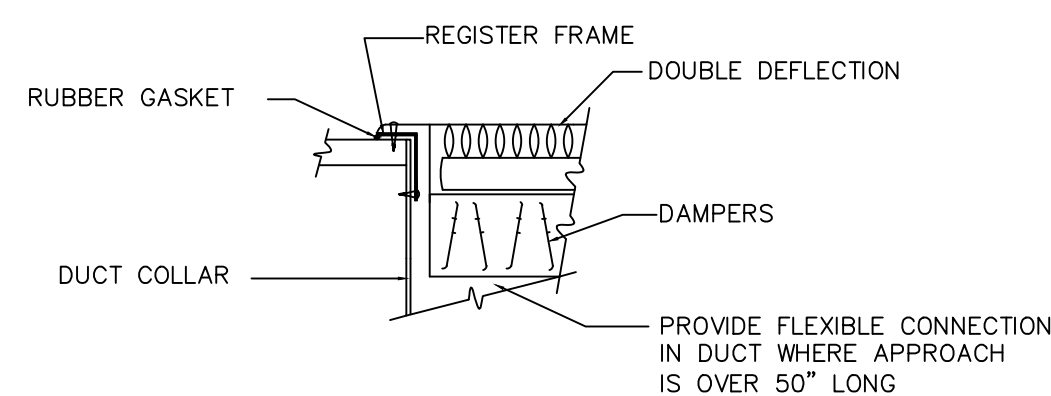


9
M1
LP GAS CONNECTION
TYPICAL

EXISTING BUILDING
NEW BUILDING



11
M1
HVAC PLAN
SCALE: 1/8" = 1'-0"



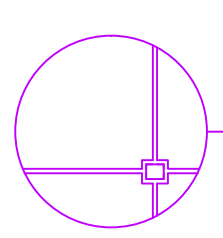
10
M1
REGISTER/GRILL CONNECTION
TYPICAL

GRILLES AND DIFFUSER SCHEDULE						
SYMB	MANUFACTURER	MODEL NO.	SHAPE	MAX. VELOCITY	TYPE	MAT'L FINISH
(A)	METAL-AIRE	SERIES CCSD	SQ	500	CUBE CORE	RETURN/E
(B)	METAL-AIRE	SERIES 5000 M-1, 54	SQ	500	SURFACE MOUNT	4 WAY BLOW

HEATING AND AIR CONDITIONING EQUIPMENT SCHEDULE									
SYMB	DESCRIPTION	TOTAL CFM	MOTOR HP	FUEL	HEAT VOLT	ELECTRICAL PHASE	COOLING TONNAGE	ACC	
0.5AHU-1	AIR HANDLER TRANE TWE-120B3	4000	2			460	3	10	
0.5DF-1	DUCT FURNACE RENZOR SC-250					LP	115	1	
CU-1	CONDENSING UNIT TRANE TTA120B						460	3	10
AHU-1	AIR HANDLER TRANE TWE-120B3	4000	2			460	3	10	
DF-1	DUCT FURNACE RENZOR SC-250					LP	115	1	
CU-1	CONDENSING UNIT TRANE TTA120B						460	3	10
AHU-1	AIR HANDLER TRANE TWE-120B3	4000	2			460	3	10	
DF-1	DUCT FURNACE RENZOR SC-250					LP	115	1	
CU-1	CONDENSING UNIT TRANE TTA120B						460	3	10

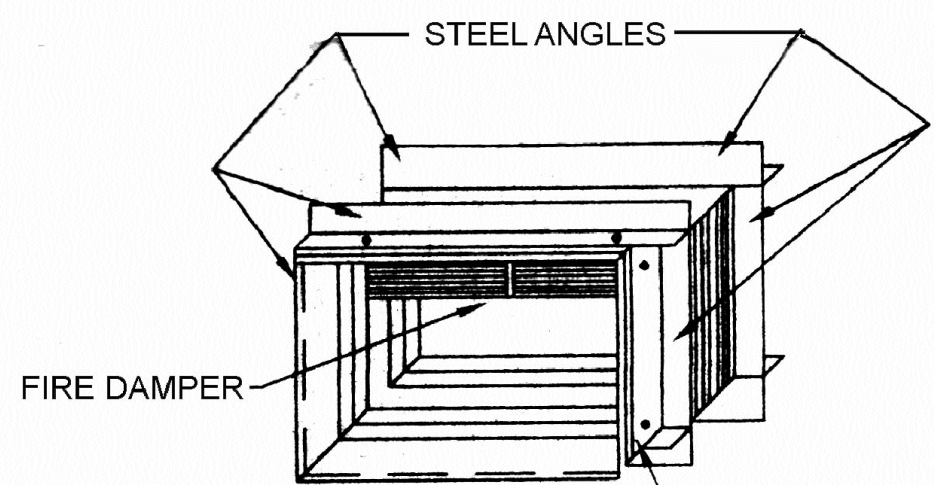
NOTE:

- HVAC SHALL BE DONE IN ACCORDANCE WITH STATE, LOCAL AND FEDERAL CODES THAT GOVERN AND SHALL BE DONE IN A FIRST CLASS MANNER. THE DRAWING IS SCHEMATIC AND IN NO WAY RELIEVES THE CONTRACTOR OF CODE COMPLIANCE.
- FINAL MECHANICAL DESIGN SHALL BE PROVIDED BY A DESIGN-BUILD MECHANICAL CONTRACTOR EMPLOYED BY THE OWNER.
- PROVIDE RATED FIRE DAMPERS WHERE PIPING, DUCTS, AND ANY PENETRATIONS PASS THRU RATED FIRE BARRIERS/WALLS.

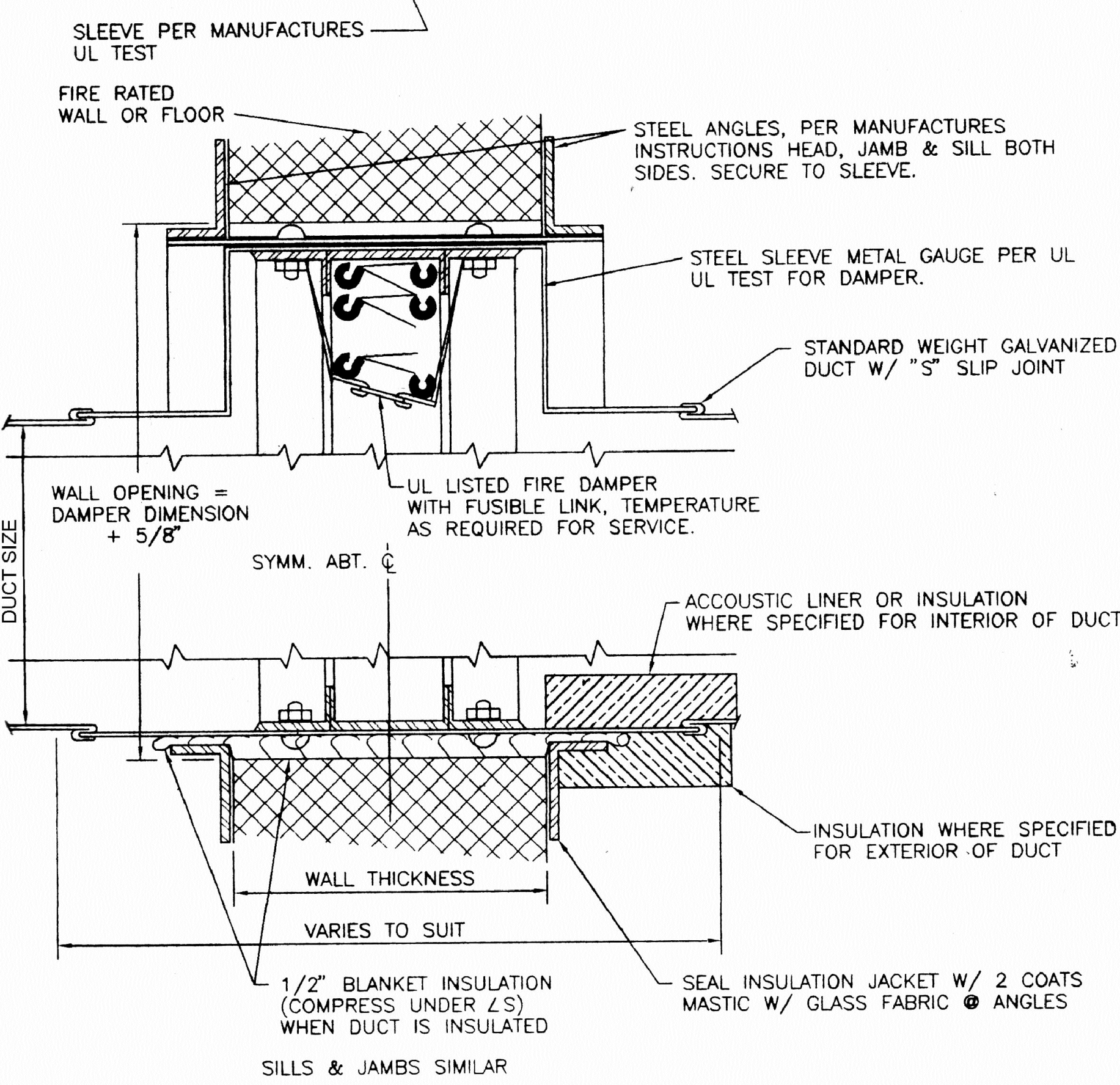


MECHANICAL PLAN

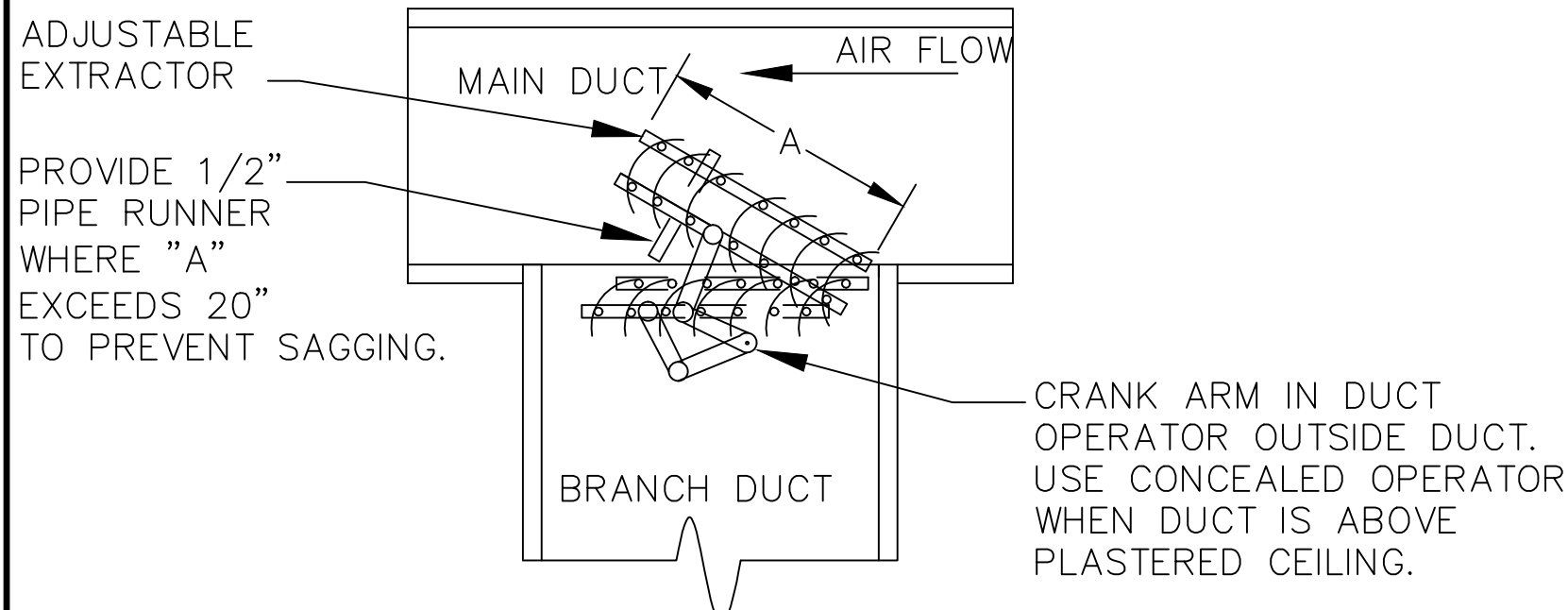
ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION



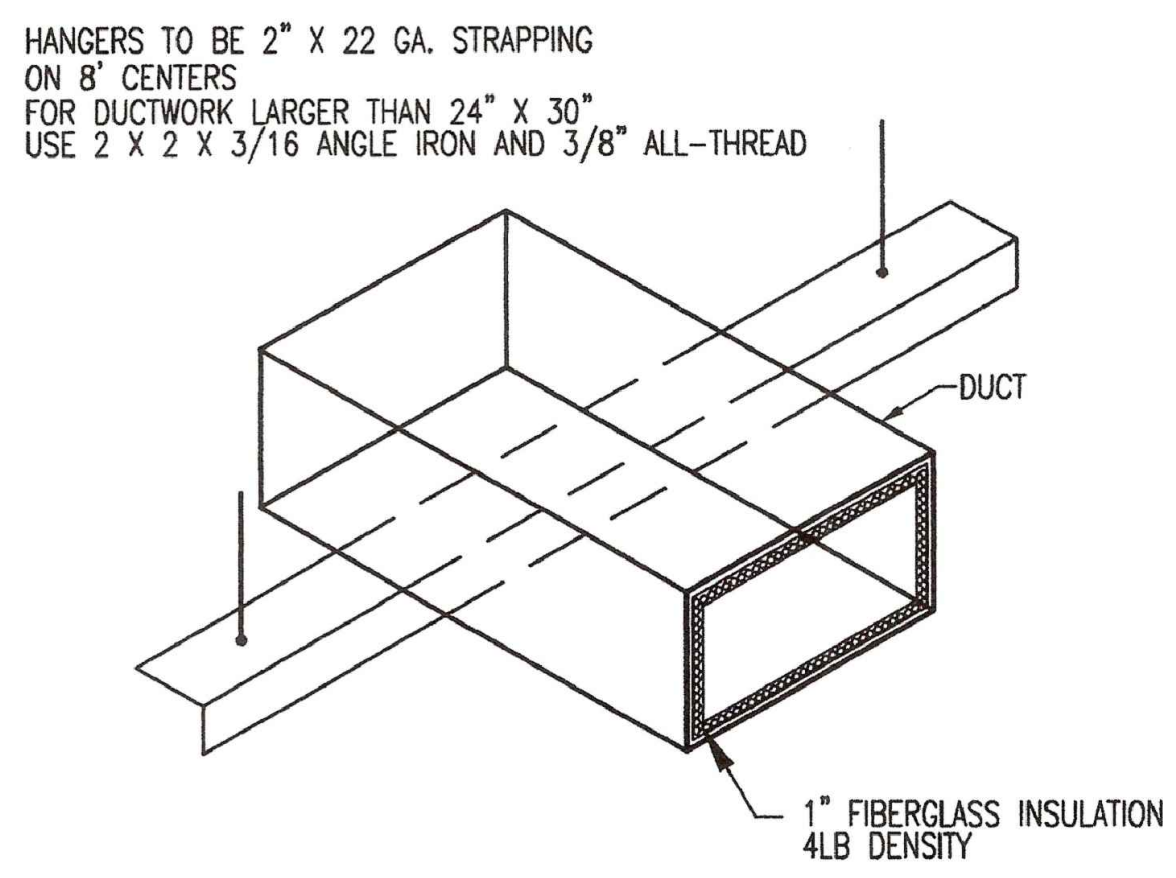
- NOTES:**
1. PROVIDE ACCESS DOORS AT EACH FIRE DAMPER. LOCATE DOORS FOR PROPER ACCESS TO FUSIBLE LINKS.
 2. FD-2 TYPE REQUIRES FIRE DAMPER CONSTRUCTED SO FOLDED LEAVES ARE OUTSIDE OF DUCT MAIN AIR STREAM.
 3. INSTALL DAMPER TO COMPLY WITH DAMPER UL TEST.



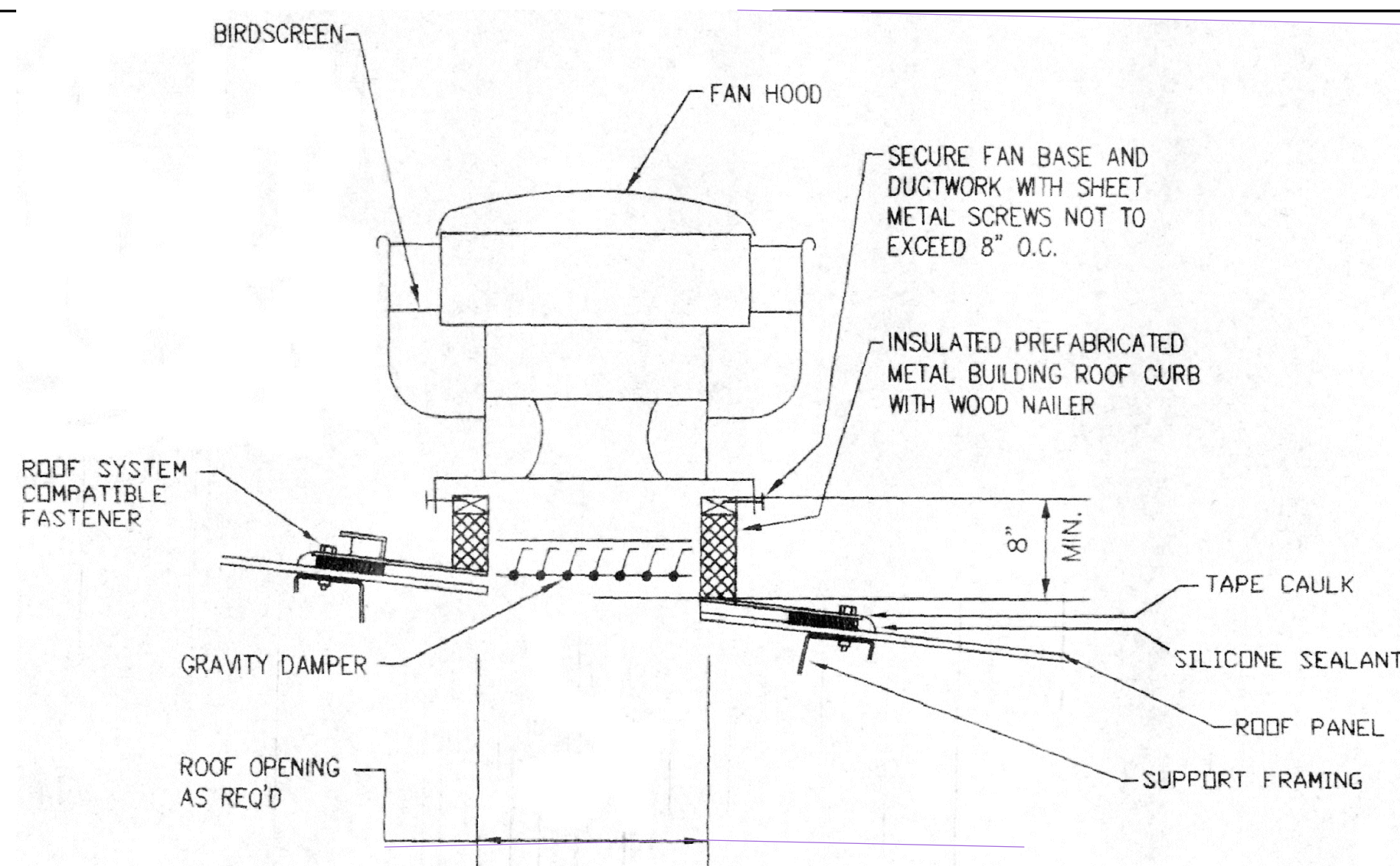
1
M2
FIRE DAMPER DETAIL TYPE FD-2
TYPICAL



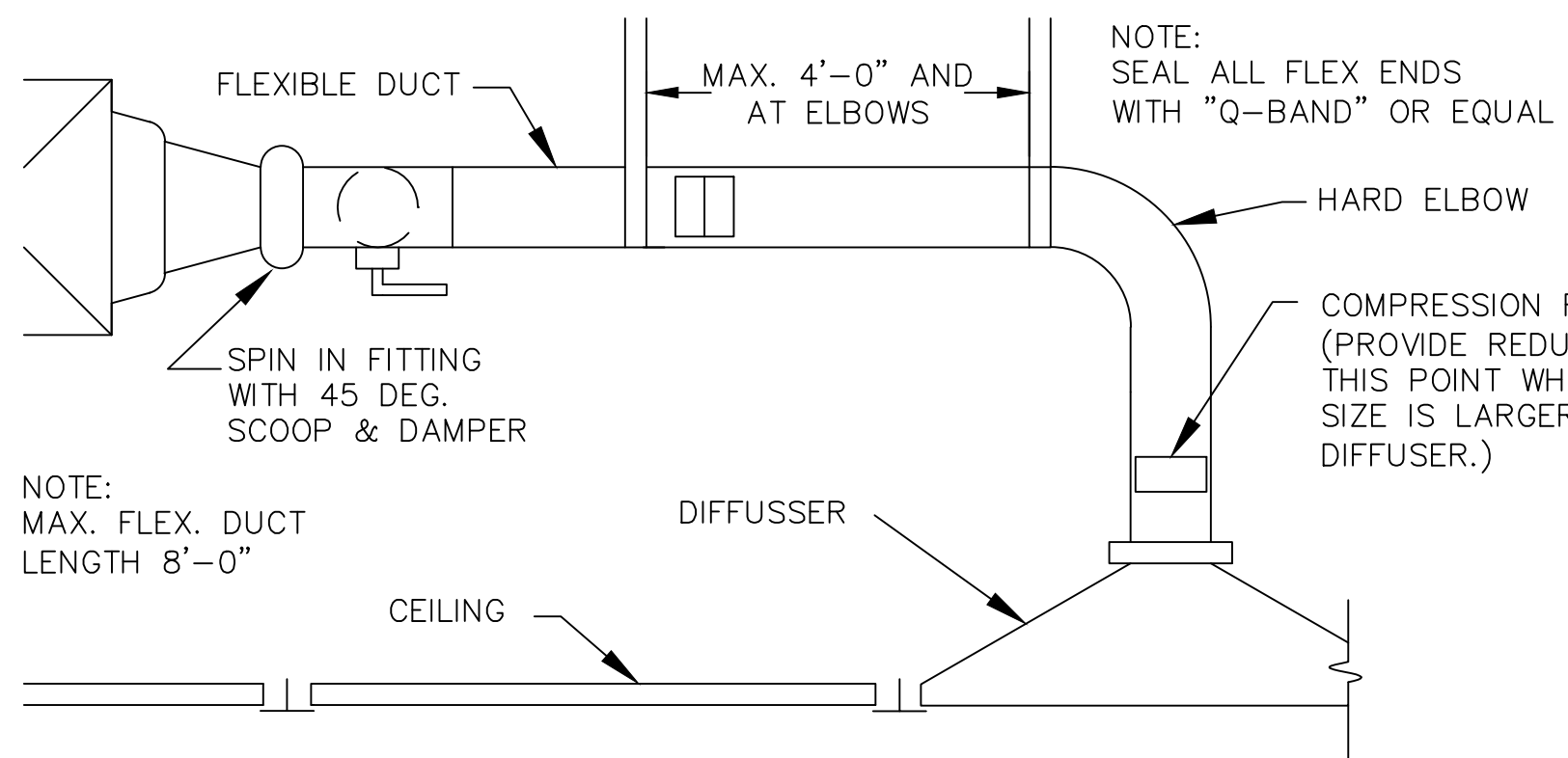
5
M2
AIR EXTRACTOR AT BRANCH DUCT
TYPICAL



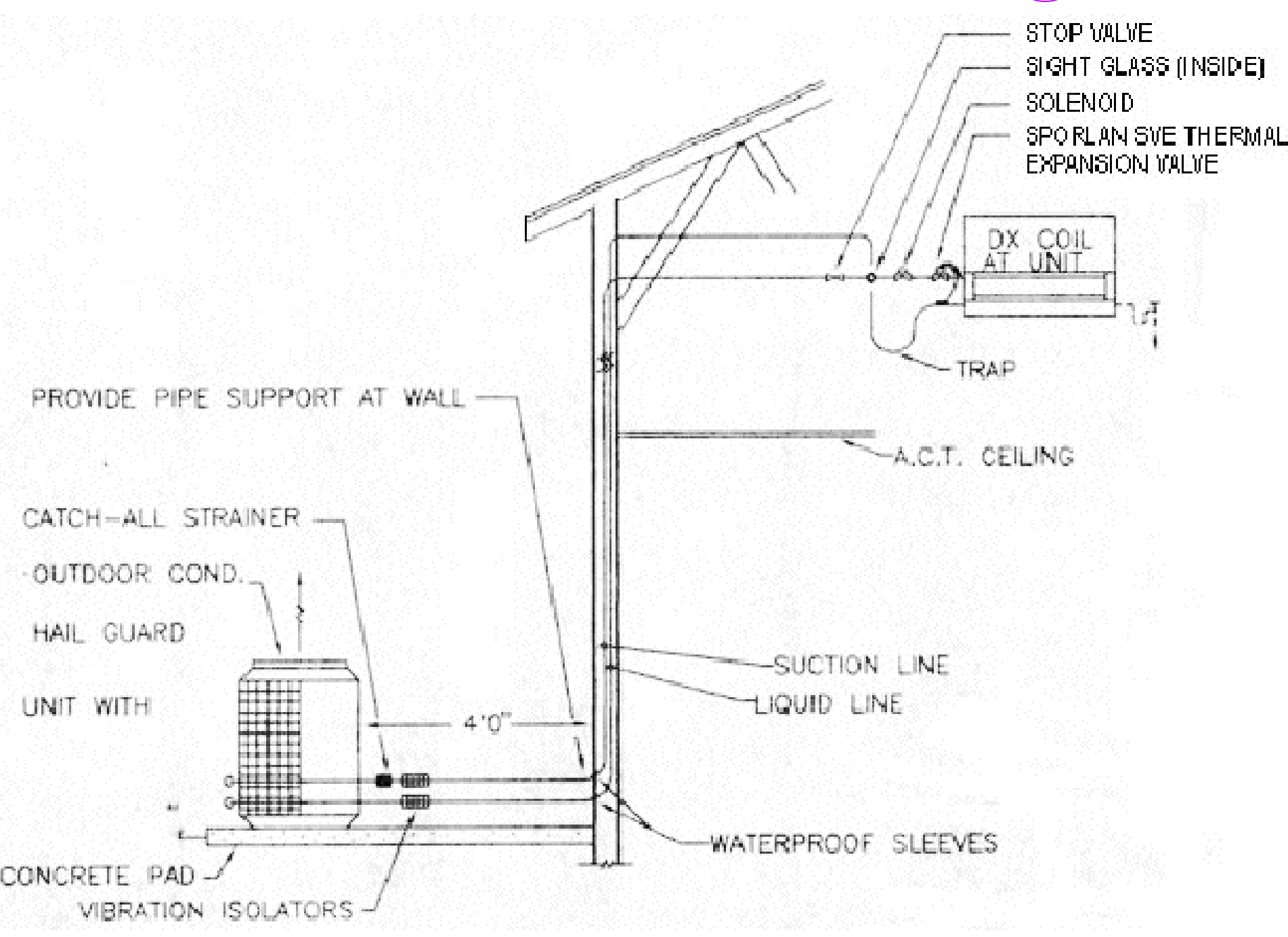
2
M2
DUCT INSTALLATION
TYPICAL



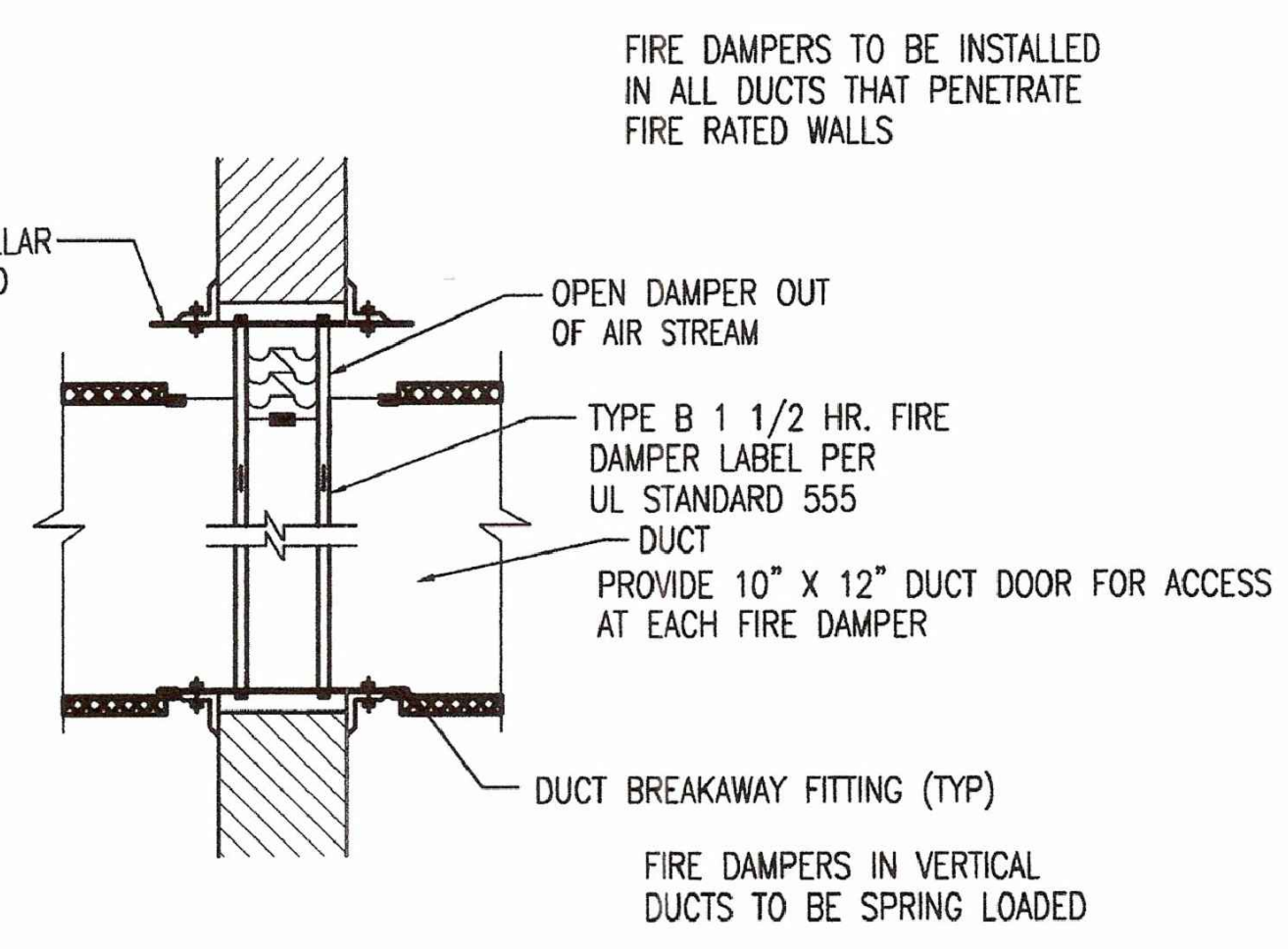
3
M2
SLOPED ROOF MOUNTED EXHAUST FAN
TYPICAL



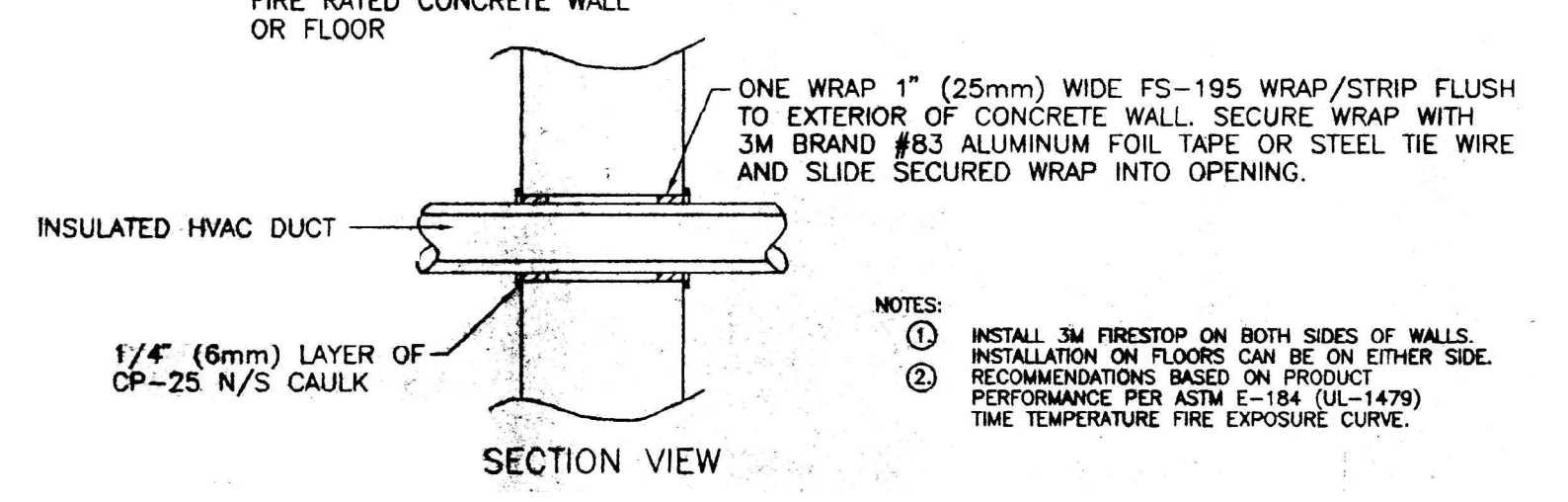
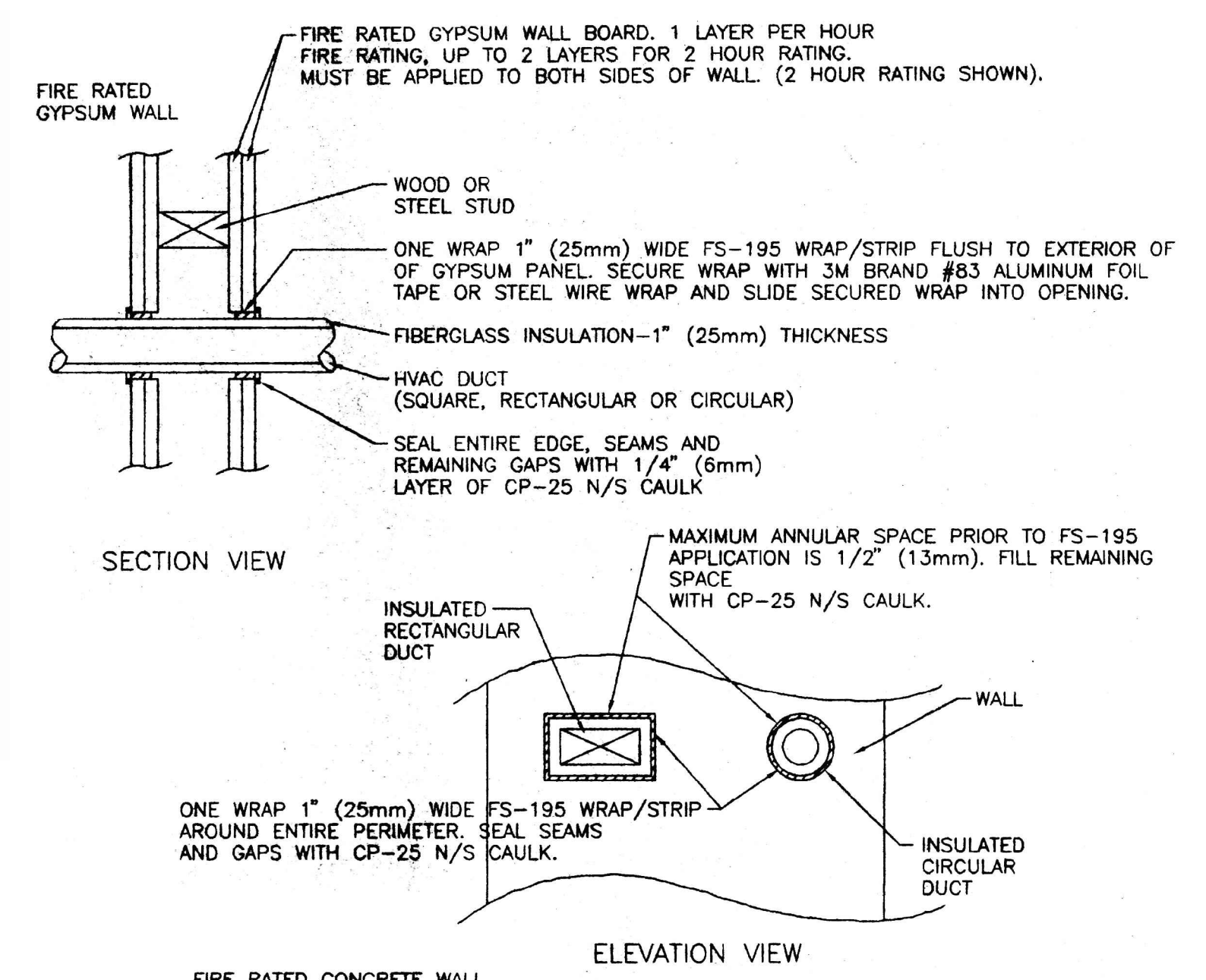
4
M2
DIFFUSER RUNOUT
TYPICAL



6
M2
REFRIGERANT PIPING DIAGRAM
TYPICAL



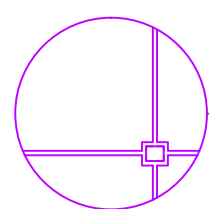
7
M2
FIRE DAMPER DETAIL
TYPICAL



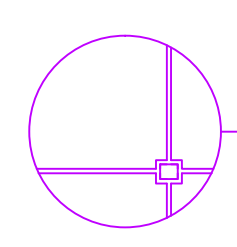
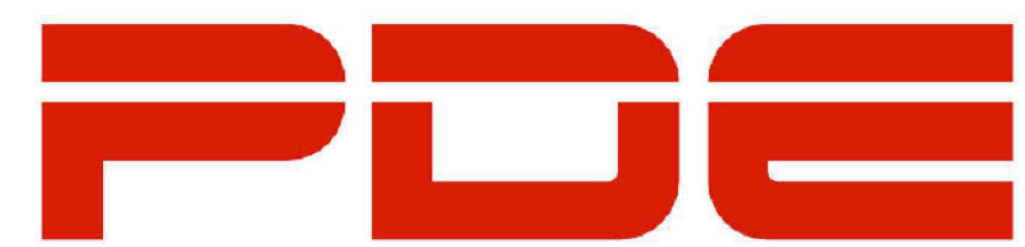
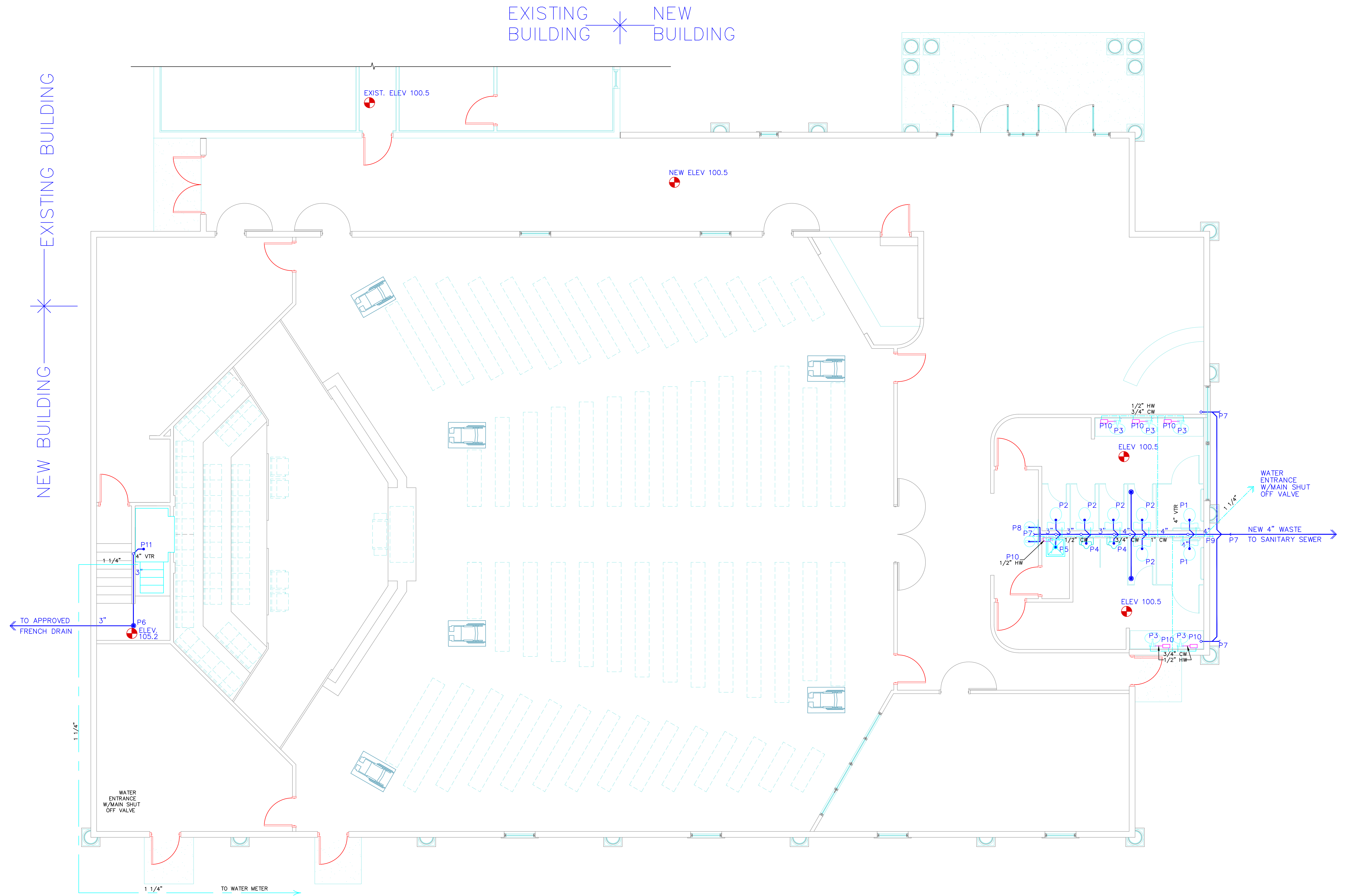
8
M2
PENETRATION FIRESTOP DETAIL
TYPICAL

HVAC NOTES

1. HVAC SHALL BE DONE IN ACCORDANCE WITH STATE, LOCAL AND FEDERAL CODES THAT GOVERN AND SHALL BE DONE IN A FIRST CLASS MANNER. THE DRAWING IS SCHEMATIC AND IN NO WAY RELIEVES THE CONTRACTOR OF CODE COMPLIANCE.
2. DUCT INSULATION FOR ROUND SHEET METAL DUCTS SHALL BE 1" FIBERGLASS DUCT WRAP. INSULATION FOR RECTANGULAR DUCT SHALL BE 1" DUCT LINER, GLUED TO THE INSIDE OF THE DUCT. RETURN AIR DUCTS ARE TO BE INSULATED.
3. DUCT SIZES SHOWN ON THIS DRAWING ARE OUTSIDE DIMENSIONS, EXCEPT RETURN AIR DUCTS ARE INSIDE DIMENSIONS.
4. DUCTWORK MUST BE PERMANENT, RIGID, NONBUCKLING, AND NONRATTLING. JOINTS IN DUCTWORK SHALL BE AIRTIGHT. FABRICATED OF GALVANIZED IRON OR ALUMINUM SHEETS ROUND OR RECTANGULAR IN CROSS SECTION CONSTRUCTED ENTIRELY OF NONCOMBUSTIBLE MATERIAL.
5. WARM AIR DUCTS PASSING THROUGH COLD SPACES OR LOCATED IN EXPOSED WALLS SHOULD HAVE 1 TO 2 IN. OF INSULATION.
6. SUPPLY DUCTS MUST BE SECURELY SUPPORTED BY METAL HANGERS, STRAPS, LUGS, OR BRACKETS. NO NAILS SHOULD BE DRIVEN THROUGH DUCT WALLS, AND NO UNNECESSARY HOLES SHOULD BE CUT IN THEM.
7. SUPPLY DUCTS SHOULD BE EQUIPPED WITH AN ADJUSTABLE LOCKING TYPE DAMPER FOR AIR VOLUME CONTROL. THE DAMPER SHOULD BE INSTALLED IN THE BRANCH DUCT AS FAR FROM THE OUTLET AS POSSIBLE, WHERE IT IS ACCESSIBLE.
8. AUTOMATIC SMOKE DAMPERS ARE REQUIRED WHEREVER DUCTWORK PASSES THROUGH A RATED SMOKE BARRIER PARTITION.
9. RETURN SYSTEMS HAVING MORE THAN ONE RETURN INTAKE SHALL BE EQUIPPED WITH BALANCING DAMPERS.
10. ATTENTION SHALL BE GIVEN TO THE ELIMINATION OF NOISE. METAL DUCTS SHOULD BE CONNECTED TO THE UNIT BY STRIPS OF FLEXIBLE FIRE RESISTANT FABRIC. ELECTRICAL CONDUIT AND PIPING, IF DIRECTLY CONNECTED TO THE UNIT, MAY INCREASE NOISE TRANSMISSION. RETURN AIR INTAKES IMMEDIATELY ADJACENT TO THE UNIT MAY ALSO INCREASE NOISE TRANSMISSION. INSTALLATION OF A FAN DIRECTLY UNDER A RETURN AIR GRILLE SHOULD BE AVOIDED.
11. FIRE DAMPERS SHALL BE TYPE "B" MFG'D BY ARROW.
12. ALL RECTANGULAR DUCTS ARE TO BE FABRICATED OF 24 GA.(MIN) GALVANIZED SHEETS.
13. REFRIGERATION LINES SHALL BE SIZED BY THE HVAC EQUIPMENT MANUFACTURER. VERTICAL HEIGHT AND LENGTH OF LINES SHALL BE CONSIDERED IN THE DESIGN.
14. THE CONTROL WIRING SHALL BE DONE UNDER THE HVAC CONTRACT.
15. HVAC CONTRACTOR SHALL VERIFY CLEARANCES FOR ATTIC EXHAUST FANS AND ATTIC LOUVERS PRIOR TO ORDERING SAME. NOTIFY ARCHITECT/ENGINEER IF CONFLICT OCCURS.
16. MOUNT THERMOSTATS FOR UNITS AT 5'-0" ABOVE FLOOR.
17. COORDINATE LOCATIONS OF DIFFUSERS WITH ELECTRICAL CONTRACTOR. THE LOCATION OF LIGHTING FIXTURES SHALL TAKE PRECEDENCE.
18. PROVIDE A LEVEL CONCRETE SLAB THAT EXTENDS BEYOND UNIT CABINET AT LEAST 6", WITH 4" ABOVE GRADE. USE A 24" GRAVEL APRON IN FRONT OF OUTDOOR AIR OPENINGS TO PREVENT GRASS AND FOLIAGE FROM OBSTRUCTING AIR FLOW.
19. BALANCE THE DIFFUSERS FOR EQUAL FLOW.
20. THRU WALL A/C UNITS MUST BE GE OR EQUAL PACKAGE TERMINAL AIR CONDITIONERS AS SHOWN ON PLAN.
21. THE GENERAL CONTRACTOR SHALL RETAIN THE SERVICES OF AN EXPERIENCED HEATING, VENTILATION, AND AIR CONDITIONING SUBCONTRACTOR PERTAINING TO SUCH A CRAFT WITH A MINIMUM 5 YEARS RELEVANT EXPERIENCE.



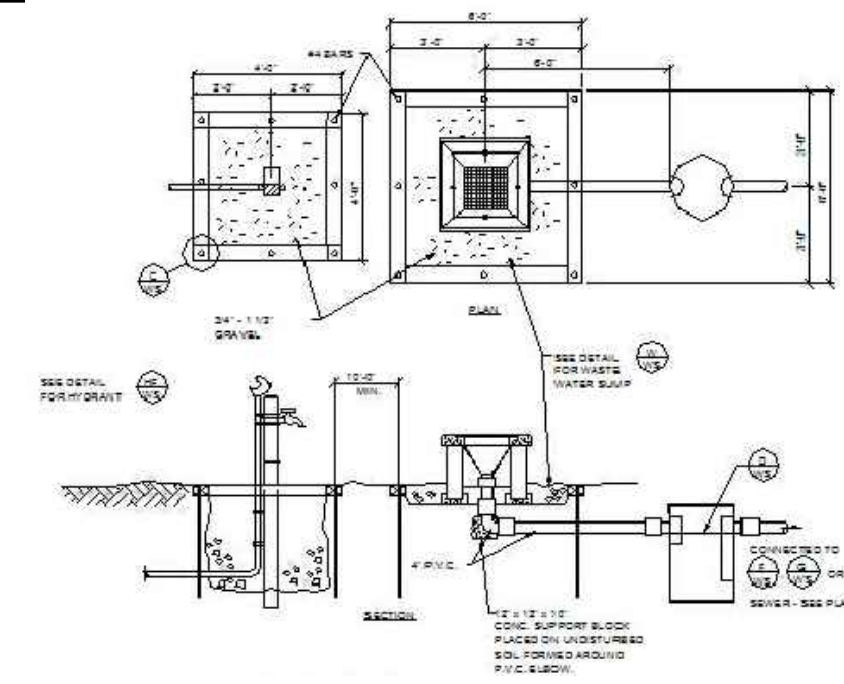
MECHANICAL SECTION AND DETAIL
ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION



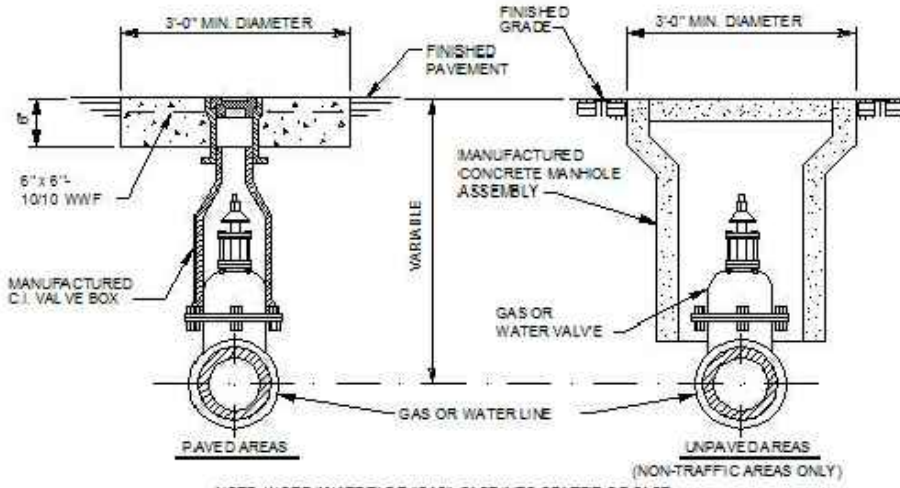
PLUMBING PLAN

ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION

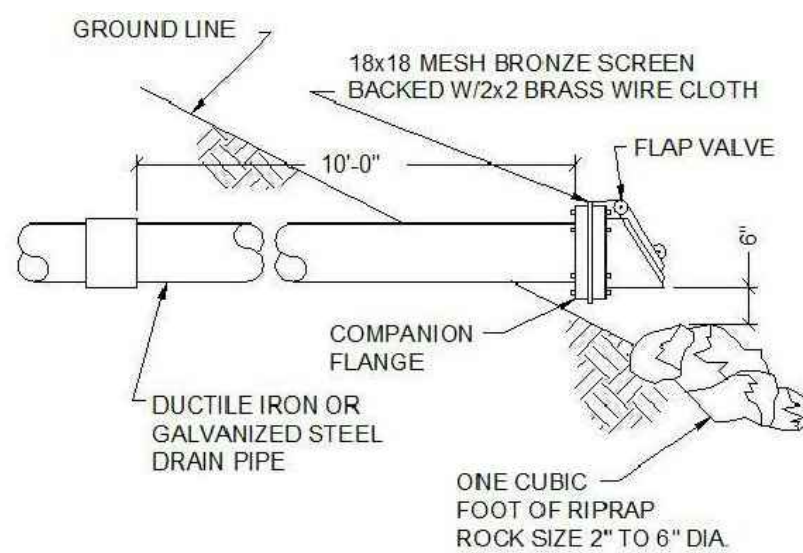
PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE TYPE	MANUFACTURER AND CAT. NO.	COLOR	FAUCET CAT. NO.	TRAP CAT. NO.	ACCESSORY CAT. NO.
P1	HANDICAP WATER CLOSET	GERBER - AVALANCHE 17" 21-818	WHITE		INTEGRAL	OLSONITE 95 SEAT
P2	WATER CLOSET	GERBER - AVALANCHE 21-812	WHITE		INTEGRAL	OLSONITE 95 SEAT
P3	VANITY SINK	CORSTONE COLUMBIA MODEL 91	WHITE	DELTA 2530.CBLHP.H24	McGUIRE 8902	GRID STRAINER AND TAIL-PIECE, McGUIRE 155A INSULATE PIPING
P4	URINAL	AMERICAN STANDARD 6501.010	WHITE		INTEGRAL	SLOAN 186
P5	SERVICE SINK	SWANSTONE #MF-1F	WHITE	DELTA #2123		
P6	FLOOR DRAIN	ZURN Z-453	POLISHED BRONZE			PROVISIONS FOR EVAPORATION SHALL BE MADE IF APPLICABLE
P7	INTERIOR CLEANOUT	ZURN Z-1400-3	POLISHED BRONZE			
P8	DRINKING FOUNTAIN	ELKAY EDFPB-117C				W/SURFACE MOUNTING PLATE
P9	WALL HYDRANT	WADE # 8600 MT-175	BRONZE			W/VACUUM BREAKER
P10	ELECTRIC WATER HEATER TANKLESS ON DEMAND	(OR EQUAL)				90" RISE
P11	BAPTISTRY	FIBERGLAS SPECIALTIES, INC. S1 WL OR APPROVED EQUAL				



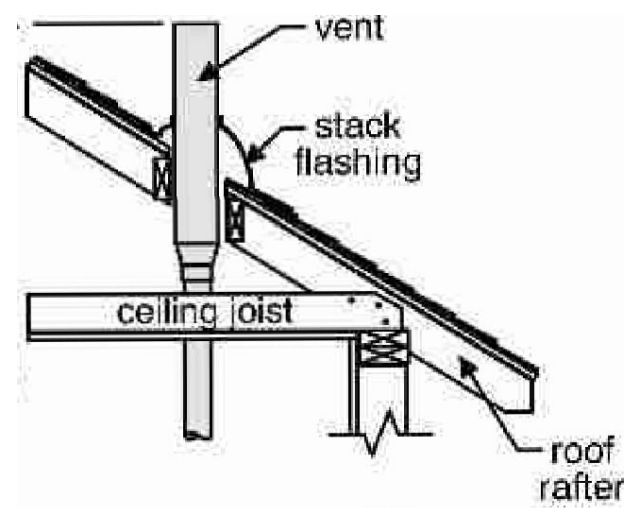
1 M4 WATER SUMP HYDRANT TYPICAL



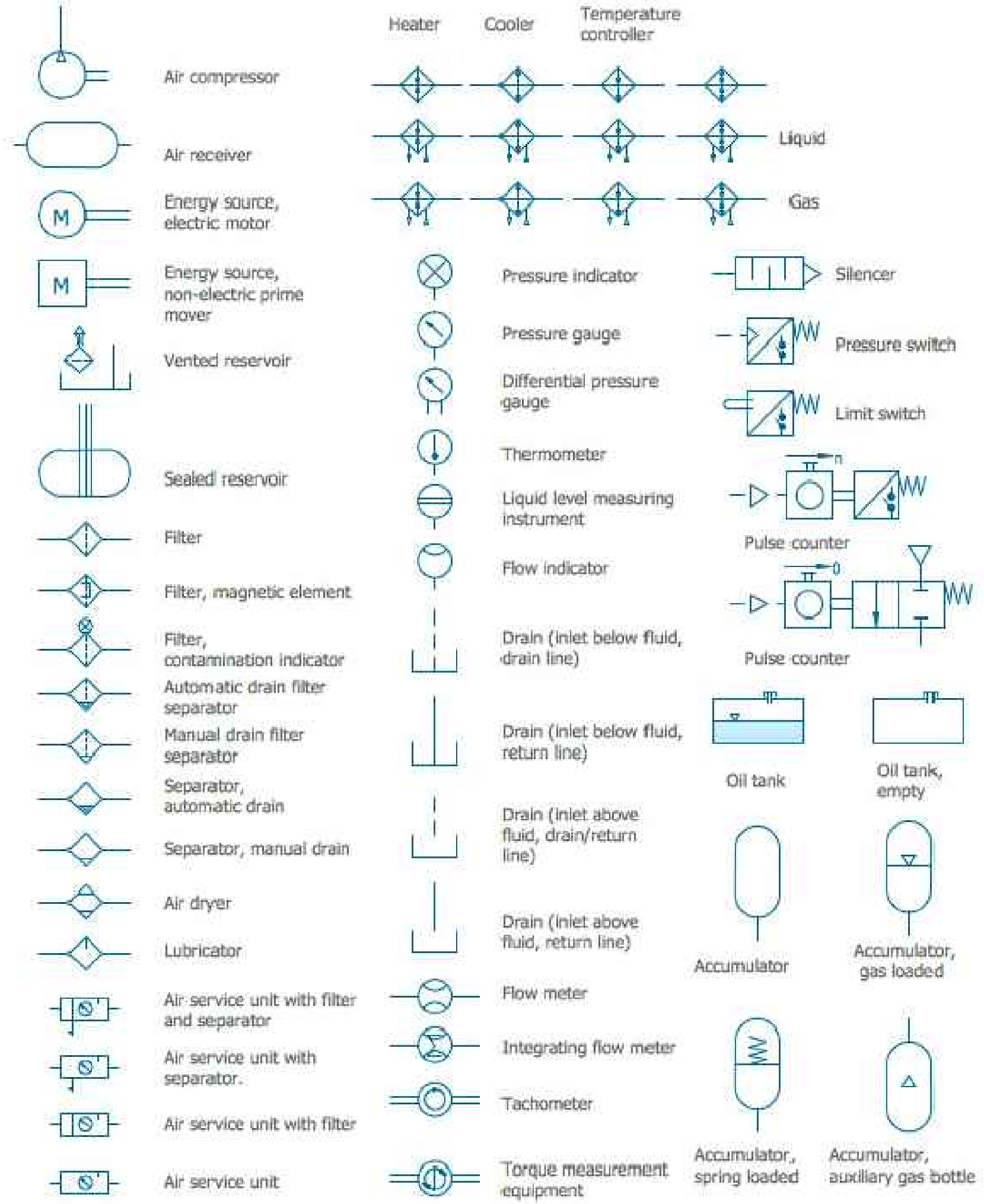
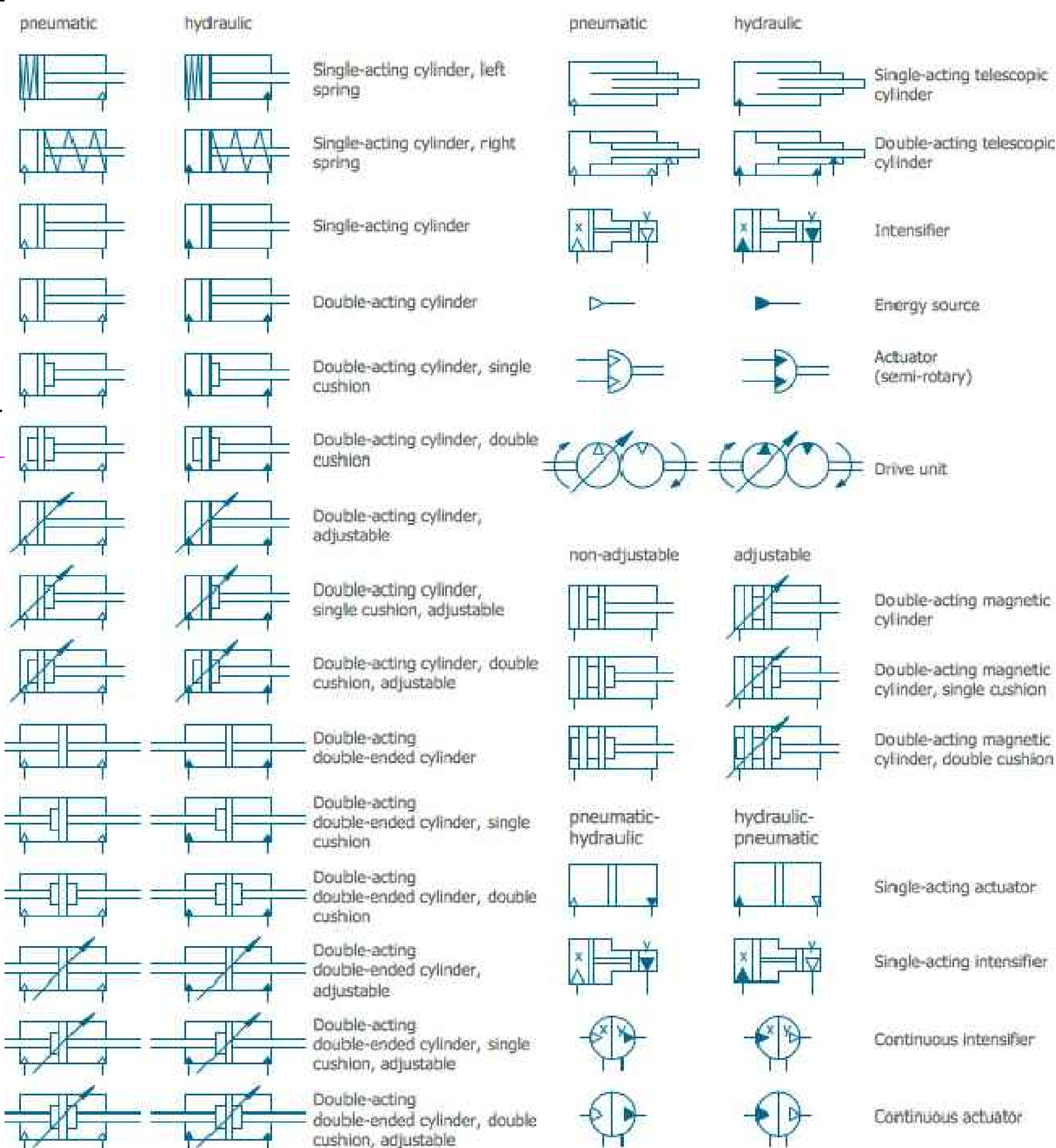
2 M4 VALVE BOX TYPICAL



3 M4 FLAP VALVE DRAIN TYPICAL



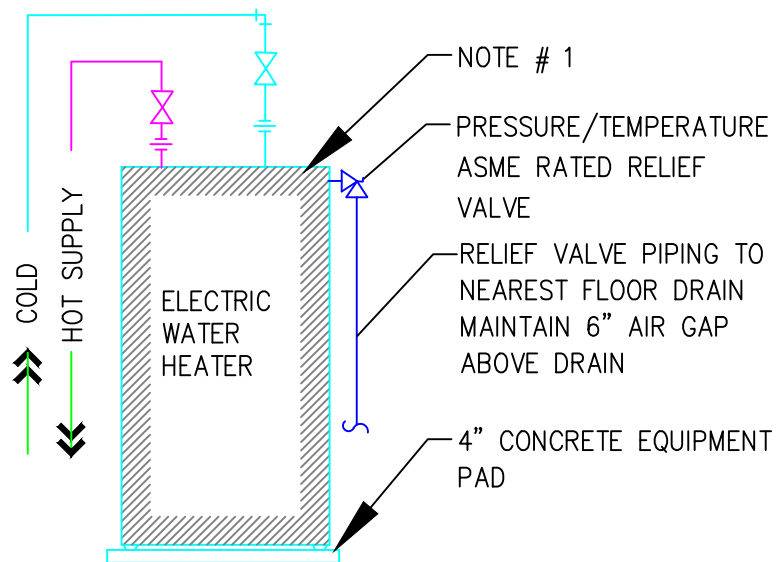
5 M4 STACK VENT TYPICAL



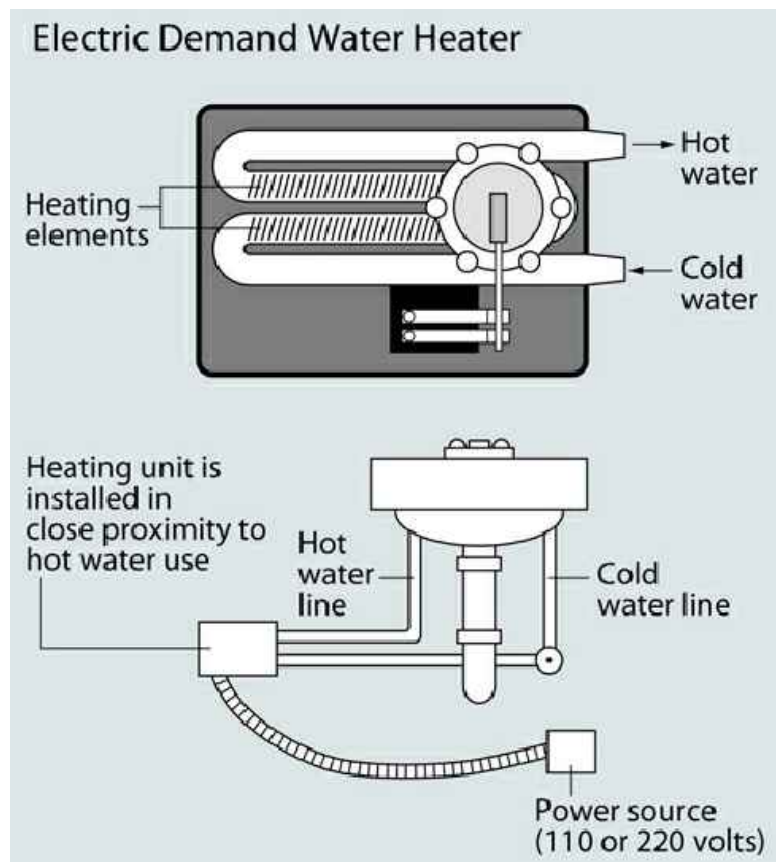
4 M4 MECHANICAL LEGEND TYPICAL

- COLD WATER PIPING (CW)
- HOT WATER SUPPLY PIPING (HWS)
- PIPE DROP - ELBOW DOWN
- PIPE RISE - ELBOW UP
- PIPE DROP - TEE DOWN
- PIPE RISE - TEE UP
- GATE VALVE
- WASTE PIPING
- VENT PIPING
- C.O. CLEANOUT (C.O.)
- VENT RISER
- CONTINUOUS WASTE AND VENT RISER
- FLOOR DRAIN (F.D.)
- P1 FIXTURE DESIGNATION
- PVC CLEAN-OUT, BELOW FLOOR

NOTE # 1
WATER HEATER SHALL BE AS SPECIFIED.
40 gal WATER HEATER
STATE MODEL #PV-40-20RTA (OR EQUAL)
WITH 28 GPH RECOVERY @ 90" RISE



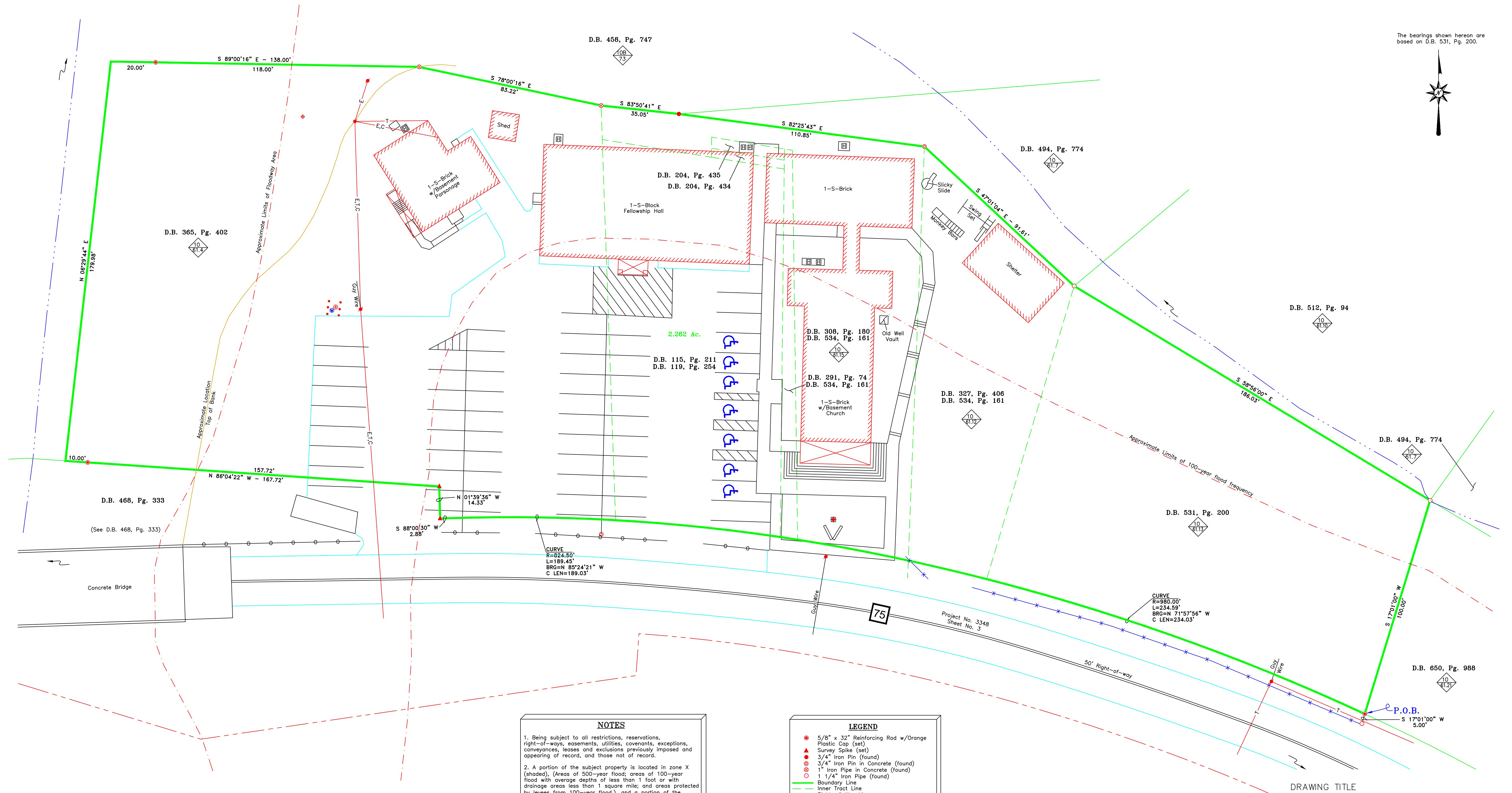
6 M4 WATER HEATER DETAIL TYPICAL



7 M4 ON-DEMAND WATER TYPICAL

NOTES:

- ALL PLUMBING WORK SHALL COMPLY WITH DEPARTMENT OF PUBLIC HEALTH'S PLUMBING CODE
- ALL DRAIN LINES 3" DIAMETER OR LESS SHALL BE INSTALLED WITH A GRADE OF 1/4" PER FT. MINIMUM.
- ALL DRAIN LINES 4" DIAMETER OF LARGER SHALL BE INSTALLED WITH A GRADE OF 1/8" PER FT. MINIMUM.
- ALL VENT PIPING SHALL BE INSTALLED WITH A SLOPE OF 1/8" PER FT. MINIMUM.
- ALL VERTICAL AND HORIZONTAL PIPE SUPPORTS SHALL BE PLACED AT 48" O.C. MAX. AND AT ALL BRACKETS AND CHANGE OF DIRECTIONS OR ELEVATIONS. SECUR WITH NAILED GUSSET PLATES, BLOCKS, OR PIPE STRAPS.
- ALL TRAP TO VENT MAXIMUM ALLOWED DISTANCE SHALL BE
 - 1-1/4" DRAIN DISTANCE 2'-6"
 - 1-1/2" DRAIN DISTANCE 3'-6"
 - 2" DRAIN DISTANCE 4'-0"
 - 3" DRAIN DISTANCE 5'-0"
 - 4" AND LARGER DISTANCE 6'-0"
- PROVIDE SEPARATE TRAP FOR WASTE DISPOSAL AND VENT PROPERLY.
- ALL DIRECTIONAL FITTINGS SHALL COMPLY WITH THE PLUMBING CODE, LATEST EDITION.
- PROVIDE CLEAN OUT AS REQUIRED PER PLUMBING CODE LATEST EDITION.
- PROVIDE SHUT OFF VALVES AT ALL WATER CONNECTIONS TO FIXTURES AND EQUIPMENT.
- ALL WATER PIPING SHALL BE TYPE "M" COPPER THROUGHOUT.
- ALL FITTINGS SHALL BE WROUGHT BRONZE OR HARD DRAWN COPPER.
- ALL WASTE PIPING SHALL BE SCHEDULE 40 P.V.C.
- ALL SOLDER USED SHALL BE 95/5.



The bearings shown hereon are based on D.B. 531, Pg. 200.

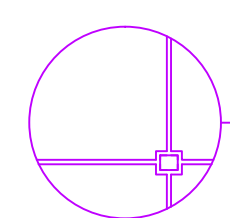


NOTES

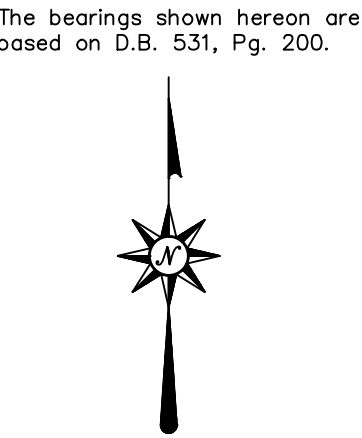
1. Being subject to all restrictions, reservations, right-of-ways, easements, utilities, covenants, exceptions, conveyances, leases and exclusions previously imposed and appearing of record, and those not of record.
2. A portion of the subject property is located in zone X (shaded). (Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood), and a portion of the subject property is located in zone AE, (base flood elevations determined), as shown on Flood Insurance Rate Map, Community-Panel Number 540200 0103 B, dated September 18, 1987. The 100-year flood frequency elevation is 552.
3. The approximate locations of the flood zones shown hereon are based on the Flood Insurance Rate Map. No elevations were established to verify the locations of the flood zones.

LEGEND

- 5/8" x 32" Reinforcing Rod w/Orange Plastic Cap (set)
- ▲ Survey Spike (set)
- 3/4" Iron Pin (found)
- 3/4" Iron Pin in Concrete (found)
- 1" Iron Pipe in Concrete (found)
- 1 1/4" Iron Pipe (found)
- Boundary Line
- Inner Tract Line
- Right-of-Way Line
- E,T,C Overhead Electric, Telephone, Cable Lines
- 10 81.3 Tax Map Number
- 10 81.3 Tax Parcel Number



BOUNDARY SURVEY
ARCHITECTURAL PORTFOLIO - NOT FOR CONSTRUCTION



1. THIS SITE PLAN IS BASED ON A BOUNDARY SURVEY PROVIDED BY ARCHITECT.
2. LOCATIONS OF EXISTING ABOVE GROUND AND BELOW GROUND UTILITIES AND STRUCTURES INDICATED ARE APPROXIMATE ONLY, AND THOSE INDICATED ARE NOT NECESSARILY ALL WHICH MAY EXIST ON THE PROJECT SITE.
3. CONTRACTOR SHALL DETERMINE ACTUAL LOCATIONS OF ALL EXISTING ABOVE GROUND AND BELOW GROUND UTILITIES AND STRUCTURES ON PROJECT SITE, WHETHER THEY ARE INDICATED OR NOT.
4. AVOID DAMAGING ABOVE GROUND AND BELOW GROUND UTILITIES AND STRUCTURES WHICH ARE REQUIRED TO REMAIN IN SERVICE AND REPAIR THOSE WHICH ARE REQUIRED TO REMAIN IN SERVICE IF THEY ARE DAMAGED BY THE WORK UNDER THIS CONTRACT.
5. PROVIDE SILT FENCE, ETC. IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.