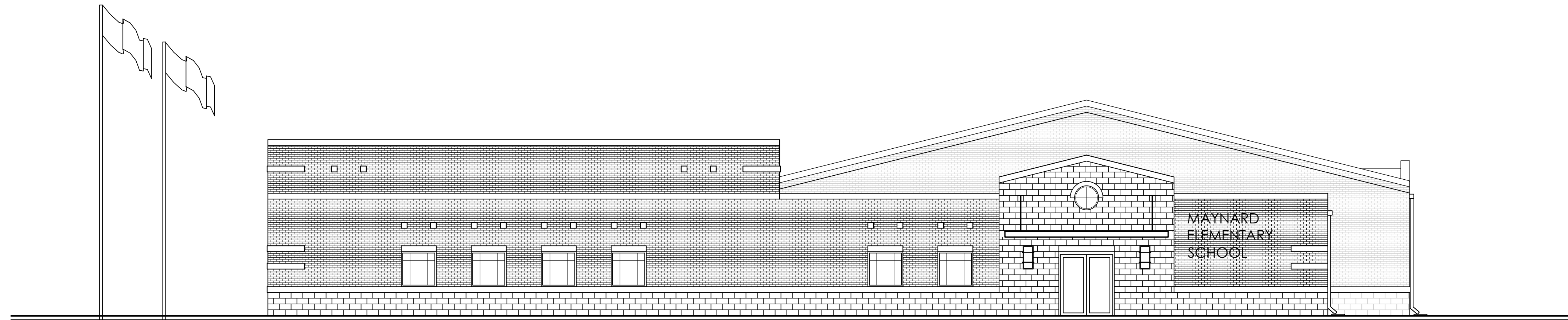


NEW ELEMANTARY SCHOOL MAYNARD SCHOOL DISTRICT

ARKANSAS: DPSAFT # 1415-6102-001



HWY. 328 W & INGRAM STREET

MAYNARD, ARKANSAS 72444

10/27/2016

PROJECT TEAM

OWNER
MAYNARD SCHOOL DISTRICT
74 CAMPUS DRIVE
MAYNARD, ARKANSAS 72444
(P) 870-647-2011

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STRUCTURAL ENGINEER:
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STRICKLAND ENGINEERING
113 W. MAIN STREET, STE. 1
JACKSON, MO 63755
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(F) 573-243-2191

SYMBOL LEGEND

	DOOR TAG - DOOR#
	ROOM TAG
	BUILDING SECTION - DETAIL# / SHEET#
	WALL SECTION - DETAIL# / SHEET#
	INTERIOR ELEVATION - DETAIL# / SHEET#
	ENLARGED DETAIL - DETAIL# / SHEET#
	ELEVATION TARGET
	ROOF PITCH (12 RUN : 2 RISE)
	WINDOW TYPE
	PARTITION TYPE
	DOOR TYPE
	GENERAL NOTE
	EXISTING/NEW CONSTRUCTION

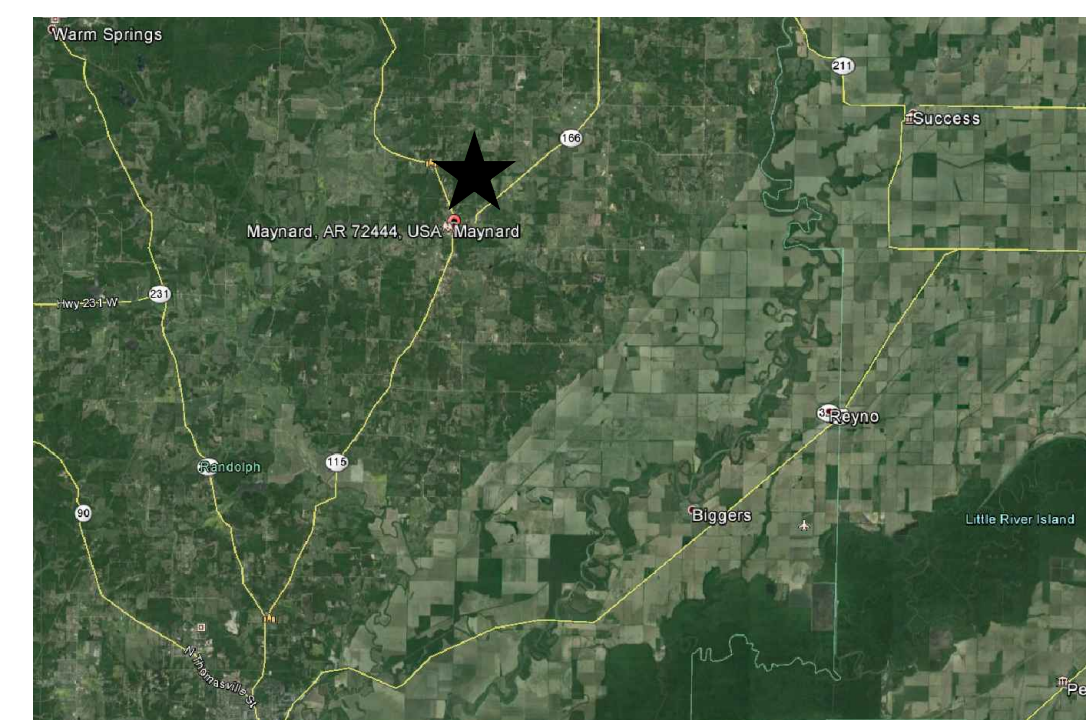
ABBREVIATIONS

A.D.A.	AMERICAN DISABILITIES ASSOCIATION
BLDG.	BUILDING
C.J.	CONTROL JOINT
CLG.	CEILING
C.M.U.	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONT.	CONTINUOUS
DR.	DOOR
E.W.C.	ELECTRIC WATER COOLER
E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM
EJ.	EXPANSION JOINT
EA.	EACH
EXT.	EXTERIOR
FIN.	FINISH
FLR.	FLOOR
G.B.	GRAB BAR
GYP.	GYPSON
H.M.	HOLLOW METAL
HT.	HEIGHT
INT.	INTERIOR
INSUL.	INSULATION
LVL.	LEVEL
MANF.	MANUFACTURER
M.B.C.	METAL BUILDING CONTRACTOR
MIN.	MINIMUM OR MINUTE
MTL.	METAL
O.C.	ON CENTER
PART.	PARTITION
PR.	PAIR
PRE-FIN.	PRE-FINISHED
REQ'D	REQUIRED
SCH.	SCHEDULE
S.S.	STAINLESS STEEL
STL.	STEEL
SPEC.	SPECIFICATIONS
STRUCT.	STRUCTURAL
TLT.	TOILET
W.	WIDTH
W/	WITH
U.L.	UNDERWRITERS LABORATORIES
WINDW.	WINDOW
V.C.T.	VINYL COMPOSITION TILE

DRAWING INDEX

T-1.0	TITLE SHEET	A1.0	CODE PLAN	S0.0	GENERAL NOTES	M1.1	HVAC SYSTEM	E1.1	POWER WIRING
G1	CIVIL GENERAL NOTES	A1.1	U.L. ASSEMBLIES	S0.1	SPECIAL INSPECTIONS & GENERAL NOTES	M1.2	HVAC SYSTEM	E1.2	DETAILS
C1	EXISTING SITE PLAN	A1.2	U.L. ASSEMBLIES	S0.2	SCHEDULES	M1.3	HVAC SYSTEM	E2.1	LIGHTING
C2	EXISTING UTILITY PLAN	A2.0	FLOOR PLAN	S0.3	MASONRY DETAILS	M1.4	HVAC SYSTEM	E3.1	FIRE ALARM
C3	PROPOSED GRADING PLAN	A2.1	ROOF PLAN	S1.1	FOUNDATION PLAN	P1.1	WASTE & VENT		
C4	PROPOSED UTILITY PLAN	A3.0	EXTERIOR ELEVATIONS	S2.1	FOUNDATION DETAILS	P1.2	WASTE & VENT		
C5	CIVIL DETAILS-1	A4.0	BUILDING SECTIONS	S3.1	ROOF LEVEL FRAMING PLAN	P2.1	SUPPLY PIPING		
		A5.0	WALL SECTIONS	S4.1	FRAMING DETAILS	P2.2	SUPPLY PIPING		
		A5.1	WALL SECTIONS	S4.2	FRAMING DETAILS				
		A5.2	WALL DETAILS	S5.1	BUILDING SECTIONS				
		A5.3	WALL DETAILS						
		A5.4	WALL DETAILS						
		A7.0	DOOR AND ROOM FINISH SCHEDULES						
		A8.0	INTERIOR ELEVATIONS						
		A8.1	CABINET DETAILS						
		A9.0	FINISH FLOORING PLAN						
		A9.1	REFLECTED CEILING PLAN						

CITY LOCATION



SITE LOCATION



REVISIONS



BRETT PATRICK DILLE
ARKANSAS ARCHITECT LICENSE NO. 8794

ARCHITECTURAL CORPORATION MISSOURI
LICENSE NO. 2009025483

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NEW ELEMENTARY SCHOOL
MAYNARD SCHOOL DISTRICT
MAYNARD, ARKANSAS 72444

CONFIDENTIAL

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DATE	10-27-2016
SHEET TITLE	TITLE SHEET
JOB NO.	1419
SHEET	1

TI.0

NOTICE: ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLY DIRECTED TO THE ARCHITECT.

GENERAL LEGENDS AND ABBREVIATIONS

AC	AIR CONDITIONER	FB	FIRE HYDRANT	P.J.F.	PRE-FORMED JOINT FILLE
ACI	AMERICAN CONCRETE INSTITUTE	F.L.	FLOW LINE	P.O.	PUSH ON
AFF	ABOVE FINISHED FLOOR	FL	FLANGE OR FLANGED JOINT	POJ	PUSH ON JOINT
ALUM.	ALUMINUM MATERIALS	FL/VC	FLANGE OR VICTAULIC COUPLING	PP	POWER POLE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FL. OR FLG	FLANGE	PR	PRIVATE
ATG	ADJUST TO GRADE	FT.	FOOT OR FEET	PSF	POUNDS PER SQUARE FOOT
AWS	AMERICAN WELDING SOCIETY	G	GAS	PSI	POUNDS PER SQUARE INCH
B1	GEOTECHNICAL BORING	GAL.	GALLONS	PV	PLUG VALVE
(B)	BOTTOM INVERT ELEVATION OF VERTICAL PIPE RISER	GALV.	GALVANIZED	P.V.C.	POLYVINYL CHLORIDE PIPE
B.F.	BLIND FLANGE/BOTH FACE	G.P.M.	GALLONS PER MINUTE	PVMT	PAVEMENT
BIT	BITUMINOUS CONCRETE	GR	GRADE	R	RADIUS
BOC	BACK OF CURB	GS	GRAVITY SEWER	R.C.P.	REINFORCED CONCRETE PIPE
BOCA	BUILDING OFFICIALS & CODE ADMINISTRATION	HB	HOSE BIBB	RD	ROOF DRAIN
BM	BENCHMARK	H.D.G.	HOT DIPPED GALVANIZED	REINF.	REINFORCEMENT
BLV	BALL VALVE	H.M.	HOLLOW METAL	RJ	RESTRAINED JOINT
BV	BUTTERFLY VALVE	H.W.L.	HIGH WATER LEVEL	ROW	RIGHT OF WAY
C.A.	COARSE AGGREGATE	HP	HORSE POWER	RT.	RIGHT
CAV	COMBINATION AIR VALVE	HWO	HANDWHEEL OPERATOR	SAN	SANITARY SEWER
CF	CUBIC FEET	I.D.	INSIDE DIAMETER	SCH	SCHEDULE
CFM	CUBIC FEET PER MINUTE	I.E. OR INV.	INVERT ELEVATION	S.D.G.	SLIDE GATE
CFS	CUBIC FEET PER SECOND	IN.	INCH OR INCHES	S.J.	SAWN JOINT
CI	CAST IRON	INF	INFLUENT	S.S.	STAINLESS STEEL
CIP	CAST IRON PIPE	INV	INVERT	STA.	STATION
CISP	CAST IRON SOIL PIPE	JMP	JET MOTIVE PUMP	STD.	STANDARD
C.J.T.	CONTROL JOINT	K	ONE THOUSAND	S.T.G.	STOP GATE
C	CENTERLINE	L	LITERS	STL	STEEL
CL	CLEARANCE	LB OR LBS	POUNDS	STM	STORM SEWER
C.M.P.	CORRUGATED METAL PIPE	L.F.	LINEAL FEET	SV	SEWER VENT
C.M.U.	CONCRETE MASONRY UNIT	LO	LEVER OPERATOR	S.Y.	SQUARE YARD
CONC	CONCRETE	LT.	LEFT	(T)	TOP INVERT ELEVATION OF VERTICAL PIPE RISER
CP	CONTROL POINT	LS	LIGHT STANDARD	T	TOP
CPLG.	COUPLING	L.W.L.	LOW WATER LEVEL	T. & B	TOP AND BOTTOM
CTR.	CENTER	MAX	MAXIMUM	TBA	TO BE ABANDONED
C.Y.	CUBIC YARD	MG	MILLIGRAMS	TBA&F	TO BE ABANDONED AND FILLED
D	DAY	M.H.	MANHOLE	TBR	TO BE REMOVED
DIA	DIAMETER	M.J.	MECHANICAL JOINT	TBR&R	TO BE REMOVED AND REPLACED
D.I.	DUCTILE IRON	M.G.D.	MILLION GALLONS PER DAY	TBLV	TRUE UNION BALL VALVE
D.I.P.	DUCTILE IRON PIPE	MIN.	MINIMUM	T.O.C	TOP OF CONCRETE
DND	DO NOT DISTURB	MODOT	MISSOURI DEPARTMENT OF TRANSPORTATION	T.O.F.	TOP OF FOOTING
DR	DRAIN	N	NORTHING	TR	TO REMAIN
DS	DOWN SPOUT	NIC	NOT IN CONTRACT	T/S	TOP OF STEEL
E	EASTING	NO. OR #	NUMBER	TYP.	TYPICAL
EA.	EACH	NPW	NON-POTABLE WATER	U.E.	UNDERGROUND ELECTRIC
EB	ELECTRICAL BOX	N.T.S.	NOT TO SCALE	U.N.O.	UNLESS NOTED OTHERWISE
E.F.	EACH FACE	O.C.	ON CENTER	UIP	USE IN PLACE
EFF	EFFLUENT	O.D.	OUTSIDE DIAMETER	VC	VICTAULIC COUPLING
EL. OR ELEV.	ELEVATION	O.E. OR OHE	OVERHEAD ELECTRIC	FL/VC	CONTRACTOR'S OPTION TO USE FLANGED PIPE OR VICTAULIC COUPLING
EO	ELECTRICALLY MOTORIZED OPERATOR	O/F	OVERFLOW	V.F.D.	VARIABLE FREQUENCY DRIVE
EQ	EQUAL	P.E.	PLAIN END	W	WATERMAIN
E.W.	EACH WAY	PCC	PORTLAND CEMENT CONCRETE	WI	WROUGHT IRON
EX	EXISTING	PH	POST HYDRANT	WP	POTABLE WATER
FA.	FINE AGGREGATE			W.S	WATER SURFACE
F.D.	FLOOR DRAIN			' "	FEET INCHES
FES	FLARED END SECTION				
F.F.	FINISHED FLOOR ELEVATION				
FIN.	FINISHED				

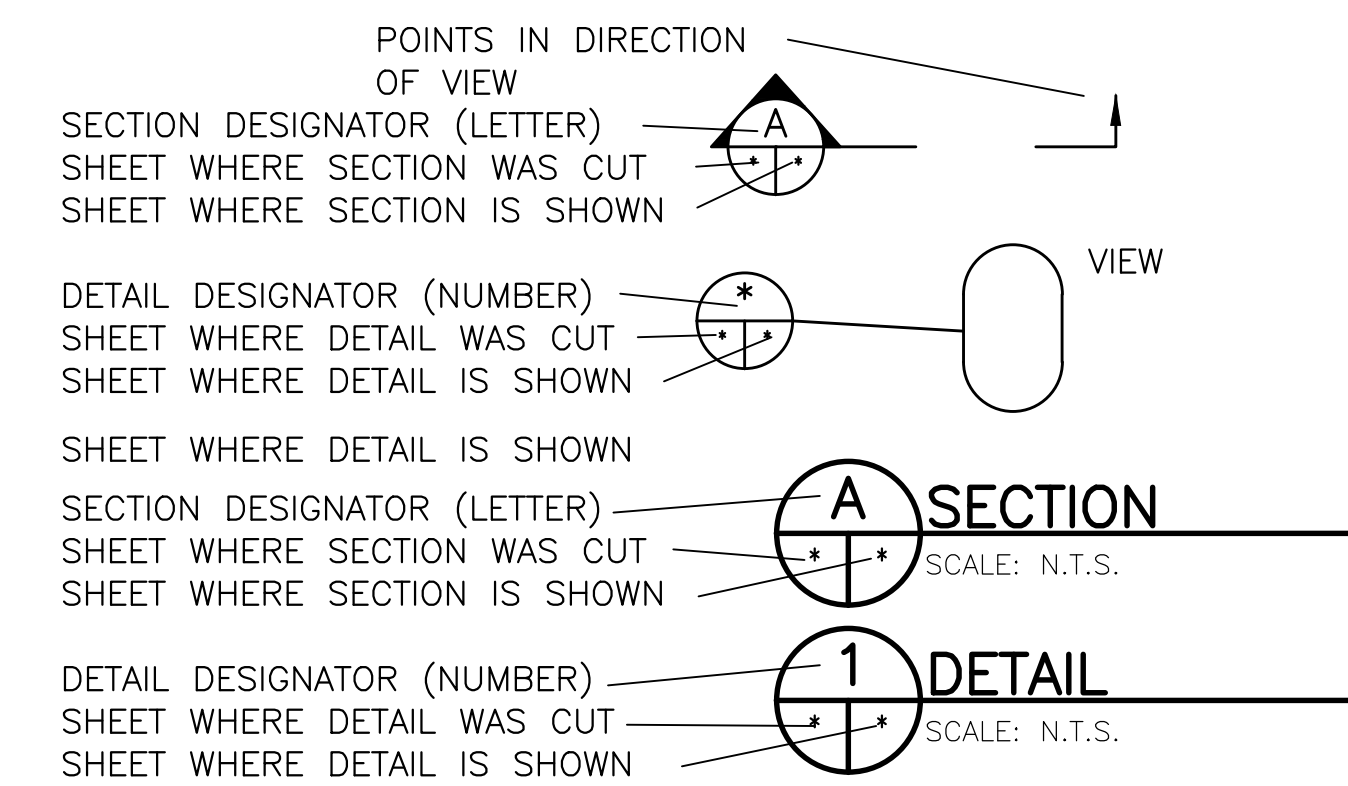
SYMBOLS LEGEND

	MECHANICAL OR PUSH ON JOINT		WATER		SWALE		CLEANOUT
	FLANGED JOINT		GAS		TREE/BRUSH LINE		EXISTING POWER POLE
	BALL VALVE		ELECTRIC		EX. FENCE		EXISTING POWER POLE W/ GUY WIRE
	CHECK VALVE		OVERHEAD ELECTRIC		PROPOSED FENCE		POWER POLE
	GATE VALVE		UNDERGROUND ELECTRIC		SURVEY MARKER		BORING LOCATION
	PLUG VALVE		UNDERGROUND TELEPHONE		EXISTING FIRE HYDRANT		LIGHT STANDARD
	BUTTERFLY VALVE		FIBER OPTIC		EXISTING YARD HYDRANT		WATER VALVE
	HOSE BIBB		FORCE MAIN		FIRE HYDRANT		WATER METER
			EX. MINOR CONTOUR		YARD HYDRANT		GAS VALVE
			EX. MAJOR CONTOUR		GATE VALVE		GAS METER
			MINOR CONTOUR		EX. MANHOLE		ELECTRIC BOX
			MAJOR CONTOUR		GRATE MANHOLE		TELEPHONE BOX
			SPOT ELEVATION		PROPOSED MANHOLE		TELEPHONE PEDESTAL
			EX. PROPERTY LINE		EX. INLET		STREET SIGN
			RIGHT OF WAY		GRATE INLET		
			EX. PAVEMENT		PROPOSED INLET		
			EX. SANITARY				
			EX. STORM				

DISCIPLINE ABBREVIATIONS

- A - ARCHITECTURAL
- C - CIVIL
- E - ELECTRICAL
- G - GENERAL
- M - MECHANICAL
- P - PROCESS
- S - STRUCTURAL

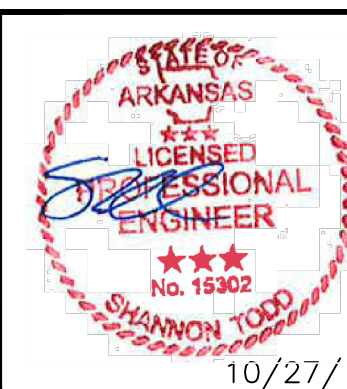
SECTION AND DETAIL CUT LEGEND



GENERAL CONSTRUCTION INFORMATION/REQUIREMENTS:

- UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS; THEREFORE, THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN. THE LOCATION OF THE EXISTING UNDERGROUND UTILITIES INCLUDING WATER MAINS, SEWERS, ETC., AS SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY OWNER IN ADVANCE OF CROSSING OVER OR UNDER ANY UTILITIES SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLANS.
- ALL IMPROVEMENTS MUST BE PERFORMED BY CONTRACTOR UNLESS NOTED OTHERWISE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE, COUNTY, AND LOCAL STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING CONSTRUCTION, AND FOR THE SAFETY OF ALL PERSONS AND/OR PROPERTY ON SITE.
- ALL EXISTING WATER MAINS AND OTHER FACILITIES SHALL BE KEPT IN SERVICE DURING CONSTRUCTION, EXCEPT WHERE PERMISSION IS GRANTED BY THE OWNER.
- WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING, THE LOCATION AND ELEVATION OF THE EXISTING PIPE SHALL BE FIELD VERIFIED, PRIOR TO MAKING NEW CONNECTIONS, ETC. AND NOTIFICATION GIVEN TO THE ENGINEER IF THE EXISTING PIPING IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS.
- IT IS THE INTENT OF THE GRADING SHOWN ON THE DRAWINGS TO PROVIDE ADEQUATE DRAINAGE AWAY FROM THE BUILDINGS AND STRUCTURES. ALTERATIONS MAY BE NECESSARY TO ACHIEVE THIS IN THE FIELD. ALL CHANGES WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS RELATED TO ANY EQUIPMENT SHOWN ON THESE DRAWINGS WITH CORRESPONDING DIMENSIONS INDICATED ON APPROVED EQUIPMENT MANUFACTURERS SHOP DRAWINGS PRIOR TO START OF CONSTRUCTION.
- PROVIDE, INSTALL AND MAINTAIN SILT FENCE AROUND DISTURBED CONSTRUCTION SITE FOR DURATION OF THE PROJECT. PROVIDE OTHER METHODS OF EROSION CONTROL AS REQUIRED TO PREVENT SOIL EROSION AND CONTROL SEDIMENTATION. SEE SILT FENCE DETAIL ON SHEET C10.
- ALL ELEVATIONS SHOWN FOR PIPELINES ARE INVERT ELEVATIONS, UNLESS OTHERWISE NOTED.
- ALL ELEVATIONS SHOWN ARE TO THE FINISHED GRADE OF TOPSOIL SURFACE IN GRADED EARTHEN AREAS, TOP OF PAVEMENT, OR TOP OF SLAB, UNLESS OTHERWISE NOTED.
- EROSION CONTROL SHALL BE IN ACCORDANCE WITH STATE, COUNTY, AND LOCAL REQUIREMENTS.
- EARTH SLOPES SHALL NOT EXCEED 3:1 (HORIZONTAL:VERTICAL) UNLESS OTHERWISE NOTED.
- ALL EXISTING FEATURES NOT LABELED SHALL BE USED IN PLACE.
- ALL MATERIAL REMOVED DURING GRADING OPERATIONS, INCLUDING RUBBISH, SHALL BE DISPOSED OFF SITE BY THE CONTRACTOR IN ACCORDANCE WITH STATE, COUNTY, AND LOCAL ORDINANCES.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH. SEEDING AND TOPSOIL SHALL BE COMPLETED BY CONTRACTOR.
- ANY DISTURBED PROPERTY (I.E. BUSHES, FENCES, MAILBOXES, ETC.) SHALL BE REPLACED IN KIND, AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE ANY STREET OR PORTION OF STREETS WITHOUT PRIOR APPROVAL OF THE LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT ANY CLOSURES ARE REQUIRED AND APPROVED, THE CONTRACTOR SHALL INSTALL ADEQUATE BARRICADES AND SIGNAGE IN ACCORDANCE WITH THE FEDERAL HIGHWAYS' "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
- TEMPORARY TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAYS' "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
- IN ORDER TO AVOID DAMAGE TO UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES BELONGING TO THE MISSOURI ONE CALL SYSTEM ALONG WITH THOSE WHO DO NOT, AND OBTAIN THE LOCATION AND DEPTH OF THEIR RESPECTIVE FACILITIES.
- UPON REQUEST, HORNER & SHIFRIN WILL PROVIDE THE CONTRACTOR A COPY OF THE ELECTRONIC FILES FOR CONSTRUCTION STAKING PURPOSES. HORIZONTAL AND VERTICAL CONTROL FOR LOCATION OF IMPROVEMENTS ARE CONTAINED IN THESE FILES.

REVISIONS



10/27/16

LICENSE NO. PE-2004017257
EXPIRATION DATE: 12/31/16



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NEW ELEMENTARY SCHOOL
MAYNARD SCHOOL DISTRICT

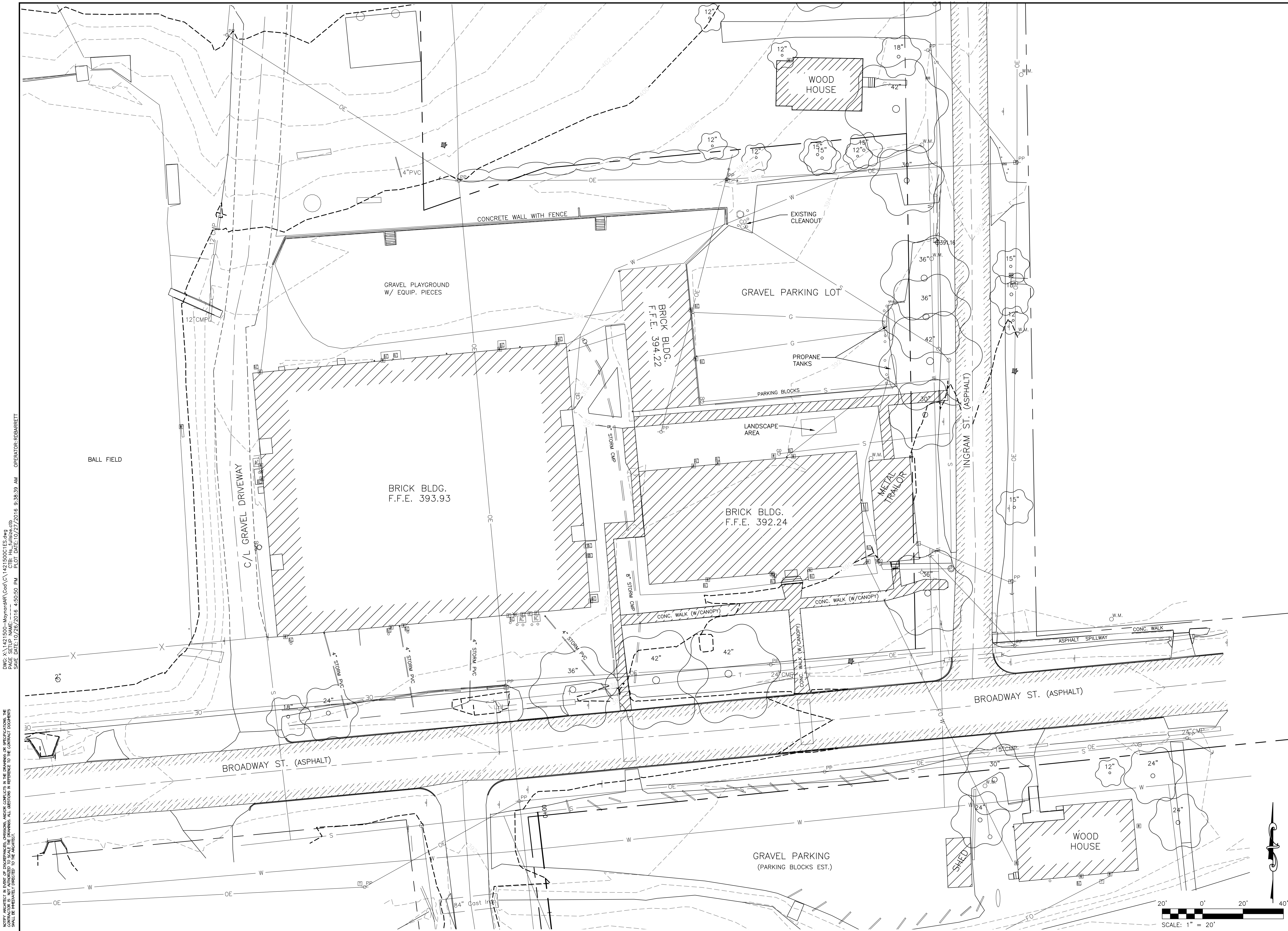
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DATE
10-27-2016
SHEET TITLE
GENERAL CIVIL NOTES
JOB NO.
14-19
SHEET

G1

DWG: \\1421500-MaynardAR\Code\A\142150001ES.dwg
 SAVE DATE: 10/26/2016 4:31:31 PM PLOT DATE: 10/27/2016 9:38:32 AM OPERATOR: ROBBARRETT
 NOT A CONTRACTOR IN STATE OF MISSOURI. DESIGN OR CONSTRUCTION OF THESE DRAWINGS OR SPECIFICATIONS, THE DESIGN OR CONSTRUCTION OF THESE DRAWINGS OR SPECIFICATIONS, OR THE CONSTRUCTION OF THESE DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT.



DWG: A:\1421500-Maynard\AR\Code\C\1421500001ES.dwg
 SAVE DATE: 10/26/2016 4:50:50 PM PLOT DATE: 10/27/2016 9:38:39 AM OPERATOR: ROBARRETT
 NOTED: ADJUST IN PART OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS, THE DESIGNER SHALL BE RESPONSIBLE FOR CORRECTING THE SAME. ANY CHANGES MADE TO THESE DRAWINGS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT.

REVISIONS



LICENSE NO. PE-2004017257
EXPIRATION DATE: 12/31/16

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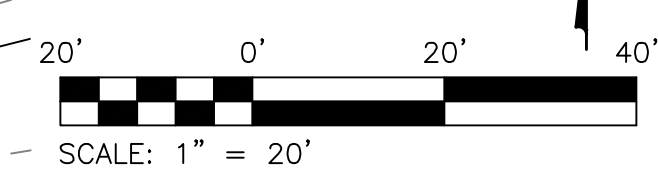
NEW ELEMENTARY SCHOOL MAYNARD SCHOOL DISTRICT

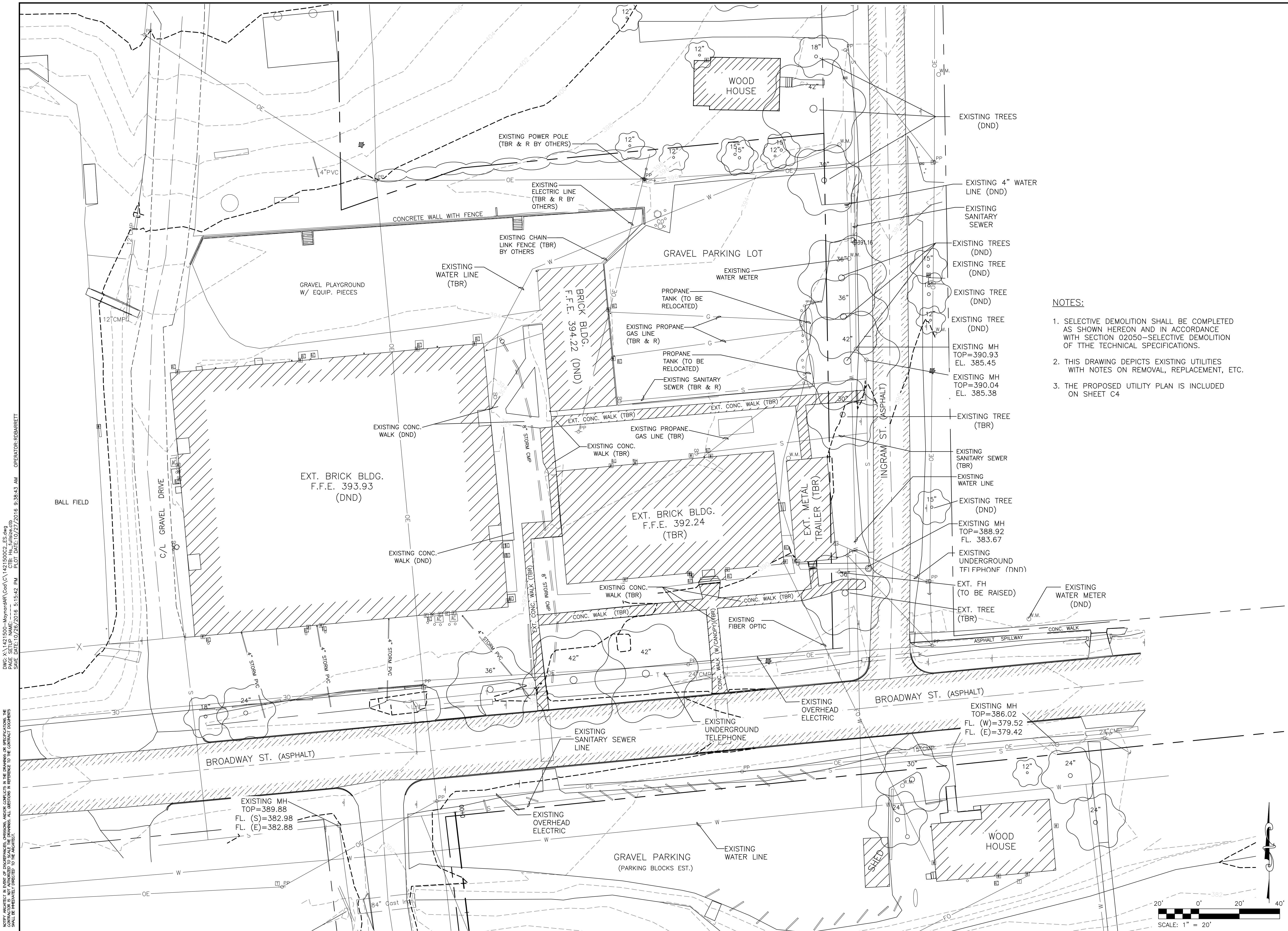
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DATE: 10-27-2016
SHEET TITLE: EXISTING SITE PLAN
JOB NO.: 14-19
SHEET

C1



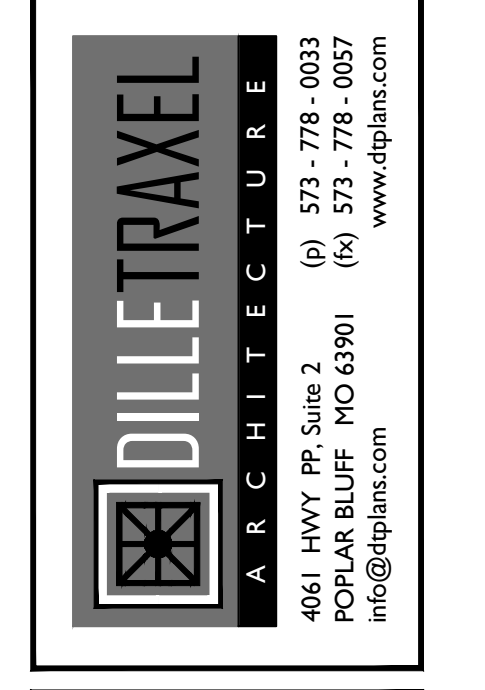


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 SAVE DATE: 10/26/2016 5:15:42 PM PLOT DATE: 10/27/2016 9:38:43 AM OPERATOR: ROBARRETT
 NOTES: CONTRACTOR TO VERIFY ALL UTILITIES, EXISTING OR PROPOSED, BEFORE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

REVISIONS



LICENSE NO. PE-2004017257
 EXPIRATION DATE: 12/31/16



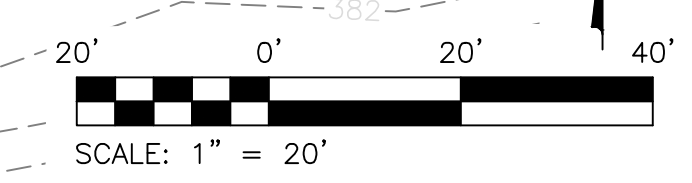
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 (P) 417-888-3445
MECH / ELEC ENGINEER:
 STRICKLAND ENGINEERING
 113 W. MAIN STREET, STE. 1
 JACKSON, MO 63753
 (P) 573-243-4080
 (F) 573-243-2191

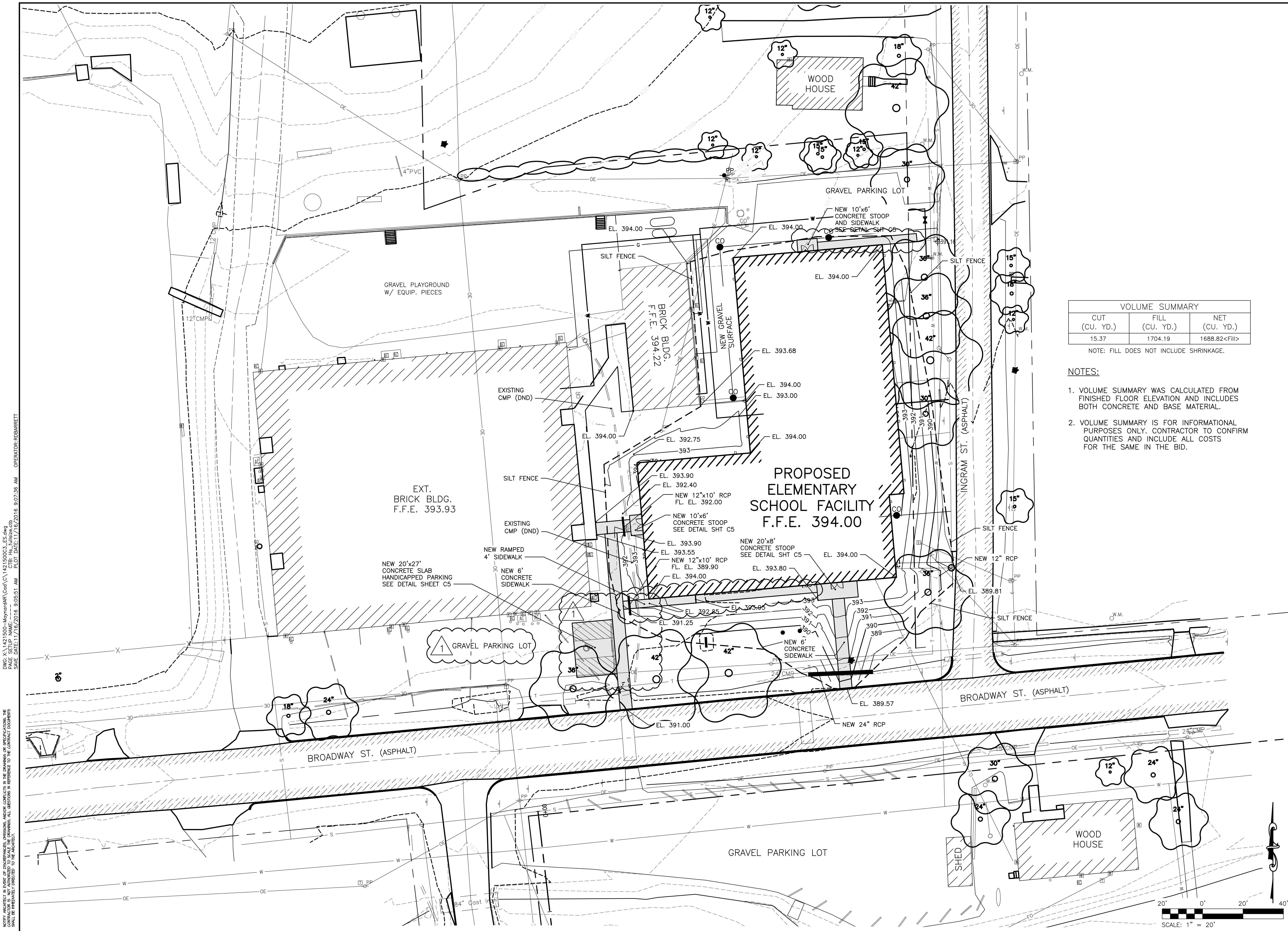
- NOTES:**
- SELECTIVE DEMOLITION SHALL BE COMPLETED AS SHOWN HEREON AND IN ACCORDANCE WITH SECTION 02050-SELECTIVE DEMOLITION OF THE TECHNICAL SPECIFICATIONS.
 - THIS DRAWING DEPICTS EXISTING UTILITIES WITH NOTES ON REMOVAL, REPLACEMENT, ETC.
 - THE PROPOSED UTILITY PLAN IS INCLUDED ON SHEET C4

NEW ELEMENTARY SCHOOL MAYNARD SCHOOL DISTRICT

CONFIDENTIAL
 THESE PLANS ARE THE CONFIDENTIAL PROPERTY AND CONTAIN EXCLUSIVE DESIGN INFORMATION OF DILLE & TRAXEL, LLC. ANY USE OF THESE DRAWINGS OR THE INFORMATION CONTAINED HEREIN FOR ANY REASON OTHER THAN AS EXPRESSLY AUTHORIZED BY DILLE & TRAXEL, LLC IS STRICTLY PROHIBITED. THESE DRAWINGS HAVE BEEN DISTRIBUTED WITH THE UNDERSTANDING THAT ANYONE RECEIVING OR OTHERWISE OBTAINING POSSESSION OF THEM WILL BE EXPRESSLY NOTIFIED OF THEIR CONFIDENTIAL NATURE.

DATE: 10-27-2016
 SHEET TITLE: EXISTING UTILITY PLAN
 JOB NO.: 14-19
 SHEET: C2





DWG: A:\1421500-Maynard\DR\Code\C\1421500\CL\ES.dwg
 SAVE DATE: 11/16/2016 9:05:51 AM PLOT DATE: 11/16/2016 9:07:36 AM OPERATOR: ROBARRETT

NOTES: CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE DRAWING OR SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

VOLUME SUMMARY		
CUT (CU. YD.)	FILL (CU. YD.)	NET (CU. YD.)
15.37	1704.19	1688.82<FILL>

NOTE: FILL DOES NOT INCLUDE SHRINKAGE.

- NOTES:**
- VOLUME SUMMARY WAS CALCULATED FROM FINISHED FLOOR ELEVATION AND INCLUDES BOTH CONCRETE AND BASE MATERIAL.
 - VOLUME SUMMARY IS FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO CONFIRM QUANTITIES AND INCLUDE ALL COSTS FOR THE SAME IN THE BID.

REVISIONS

11-16-16-ADD HANDICAPPED PARKING AND SIDEWALK NORTH AND SOUTH END OF BLDG. DESIGNATE GRAVEL PARKING.	1
--	---

10/27/16

LICENSE NO. PE-2004017257
EXPIRATION DATE: 12/31/16

DILLETRAXEL
ARCHITECTURE
4061 HWY PP, SUITE 2
POPULAR BLUFF, MO 63901
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(F) 573-727-9668
www.diplans.com

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TOTH ENGINEERING, INC.
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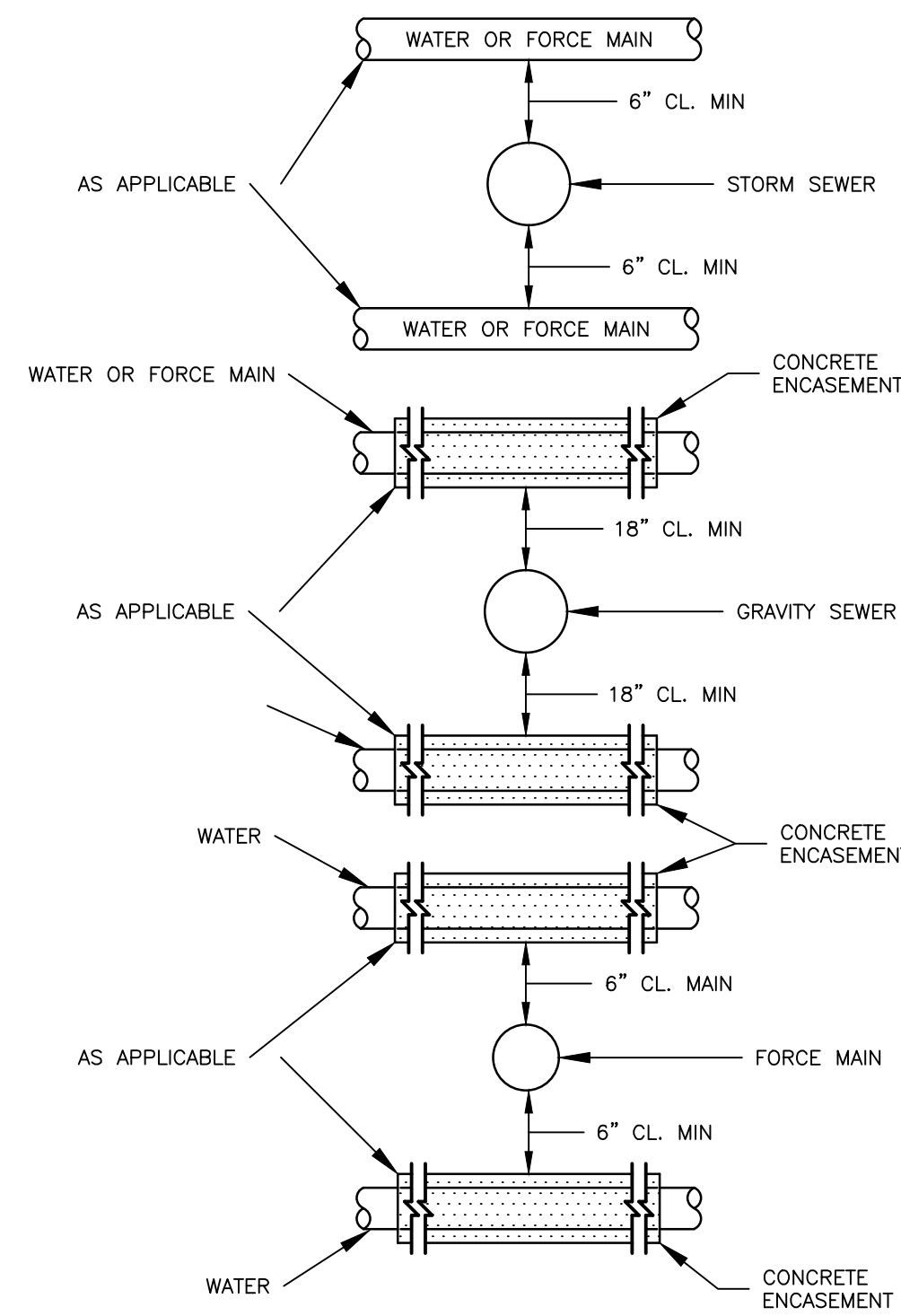
MECH / ELEC ENGINEER:
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(P) 573-243-4080
(F) 573-243-2191

**NEW ELEMENTARY SCHOOL
MAYNARD SCHOOL
DISTRICT**

CONFIDENTIAL

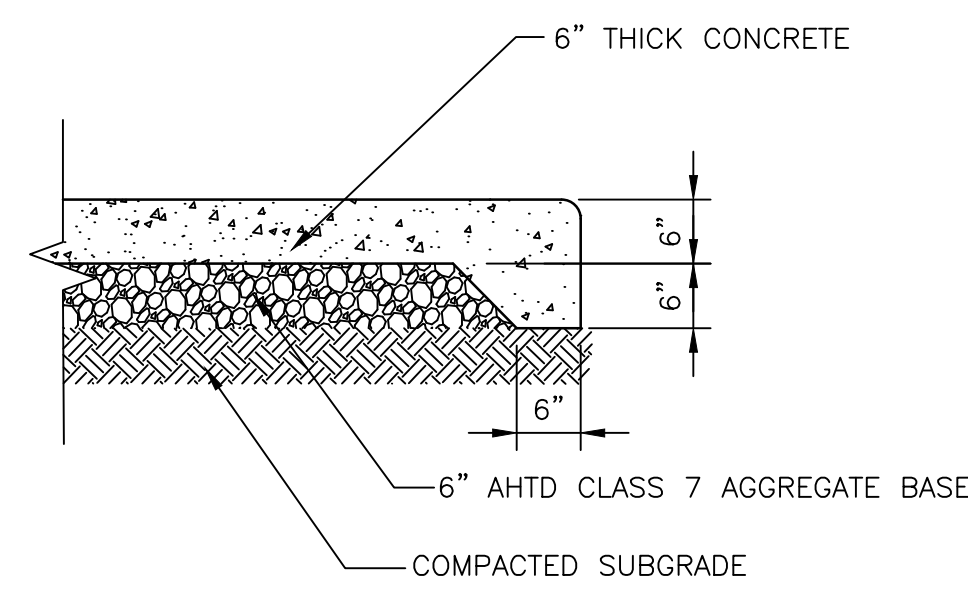
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DATE: 10-27-2016
SHEET TITLE: PROPOSED GRADING PLAN
JOB NO.: 14-19
SHEET: C3

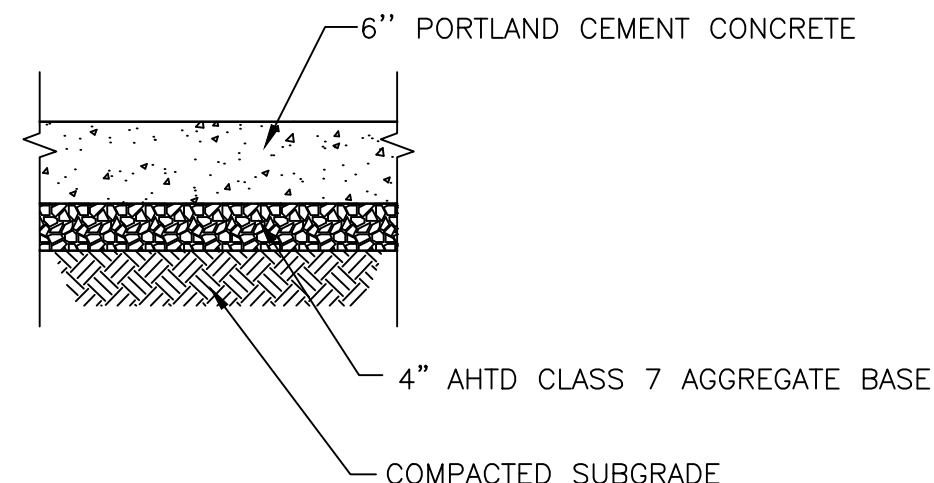


NOTES:
 1. CONCRETE ENCASMENT TO EXTEND A MINIMUM OF 10' ON BOTH SIDES OF CROSSING.
 2. FOR ELEVATION OF PIPES, SEE PLANS.
 3. CONCRETE ENCASMENT REQUIRED IF 18" VERTICAL SEPARATION IS NOT MAINTAINED.

TYPICAL PIPE CROSSING
 SCALE: N.T.S.

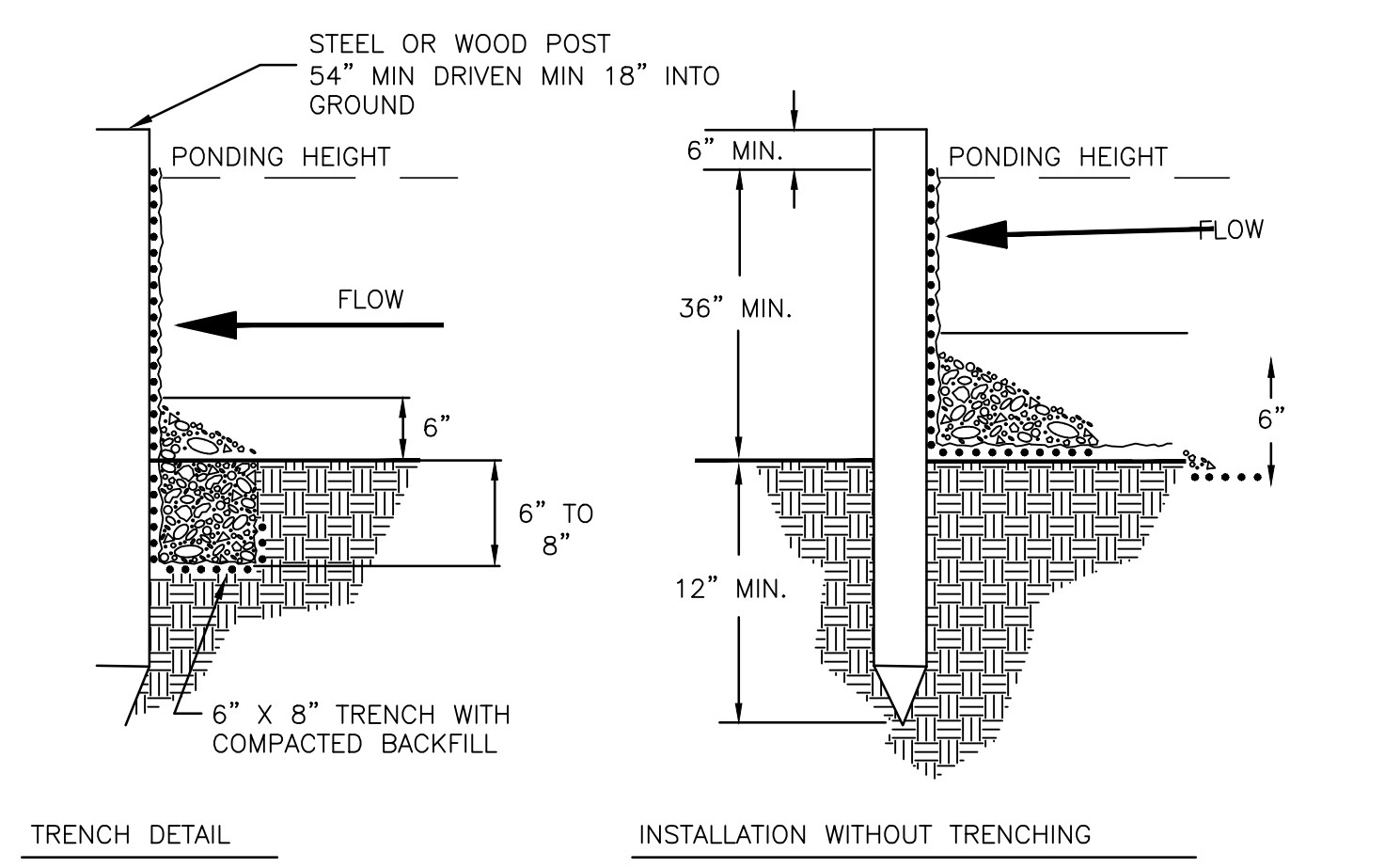
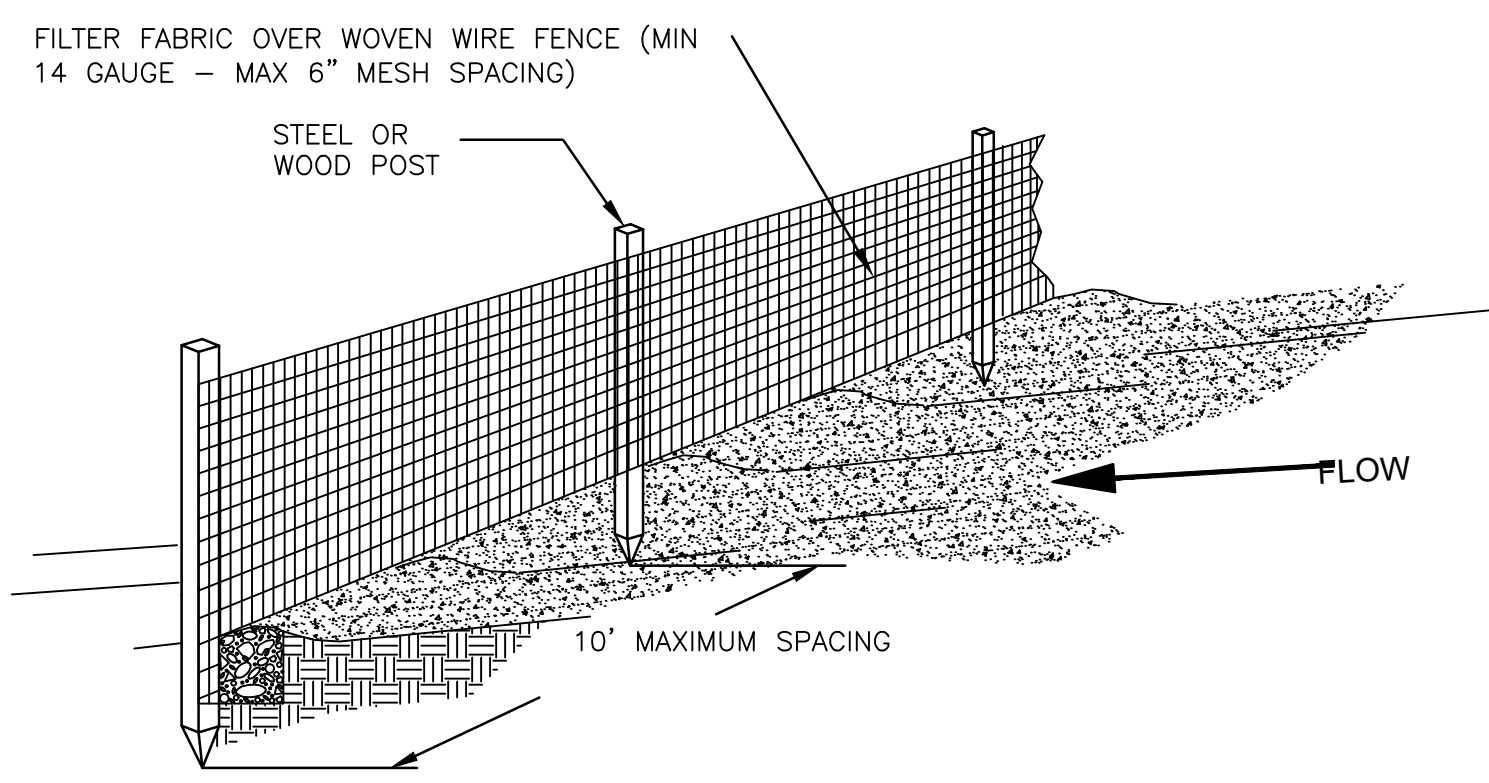


CONCRETE STOOP DETAIL
 SCALE: N.T.S.

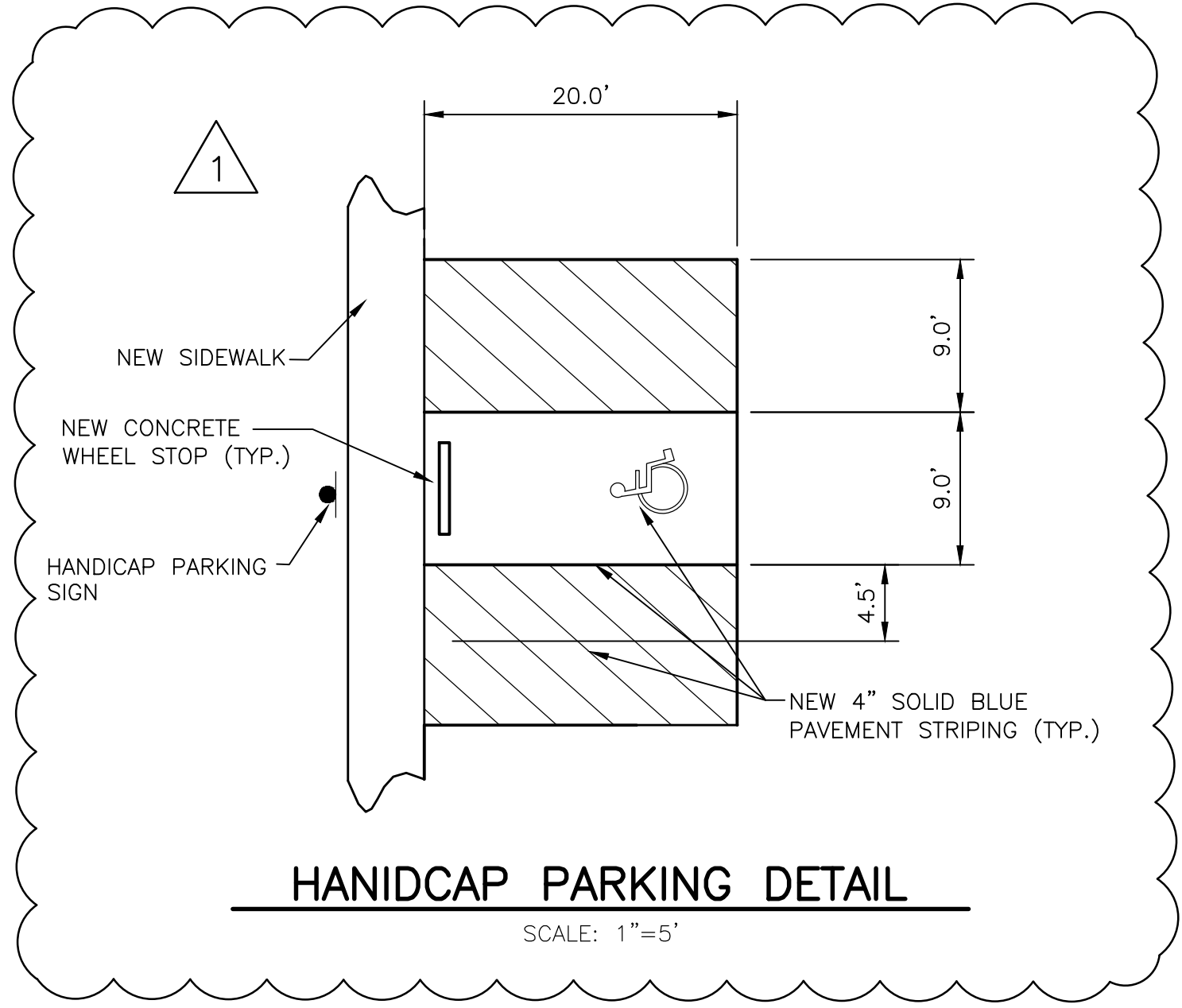


WALK DETAIL
 SCALE: N.T.S.

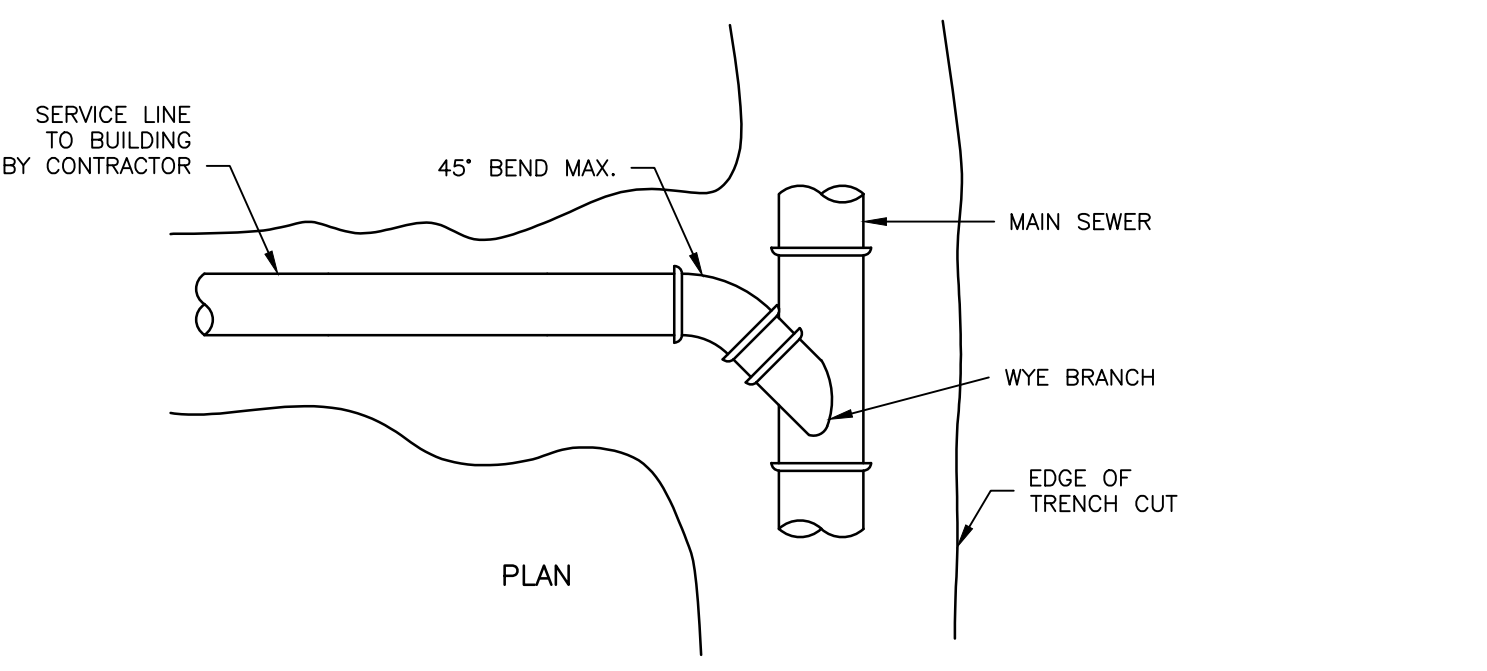
NOTES:
 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MIDSECTION.
 3. WHEN TWO SECTION OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
 5. POSTS: STEEL EITHER T OR U TYPE OR 2"x2" HARDWOOD
 FENCE: WOVEN WIRE, 14 GA. 6" MAX MESH OPENING
 FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL
 PREFABRICATION UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL



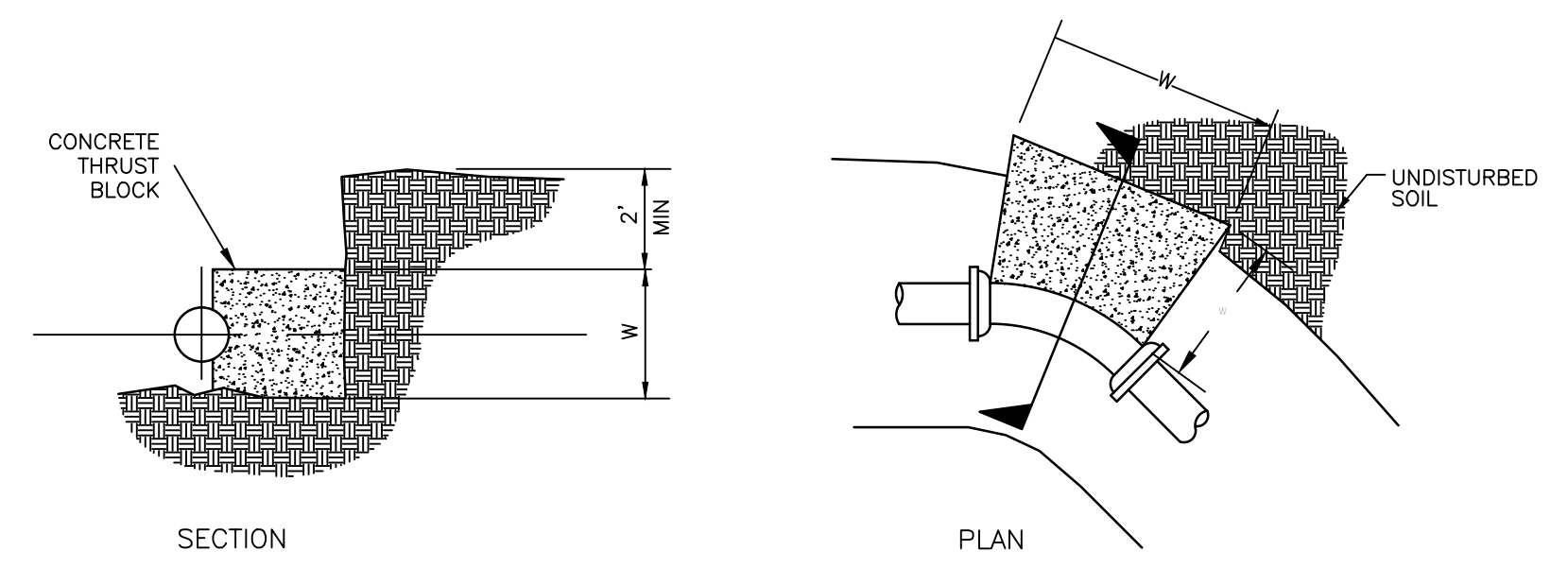
SILT FENCE DETAIL
 SCALE: N.T.S.



HANIDCAP PARKING DETAIL
 SCALE: 1"=5'



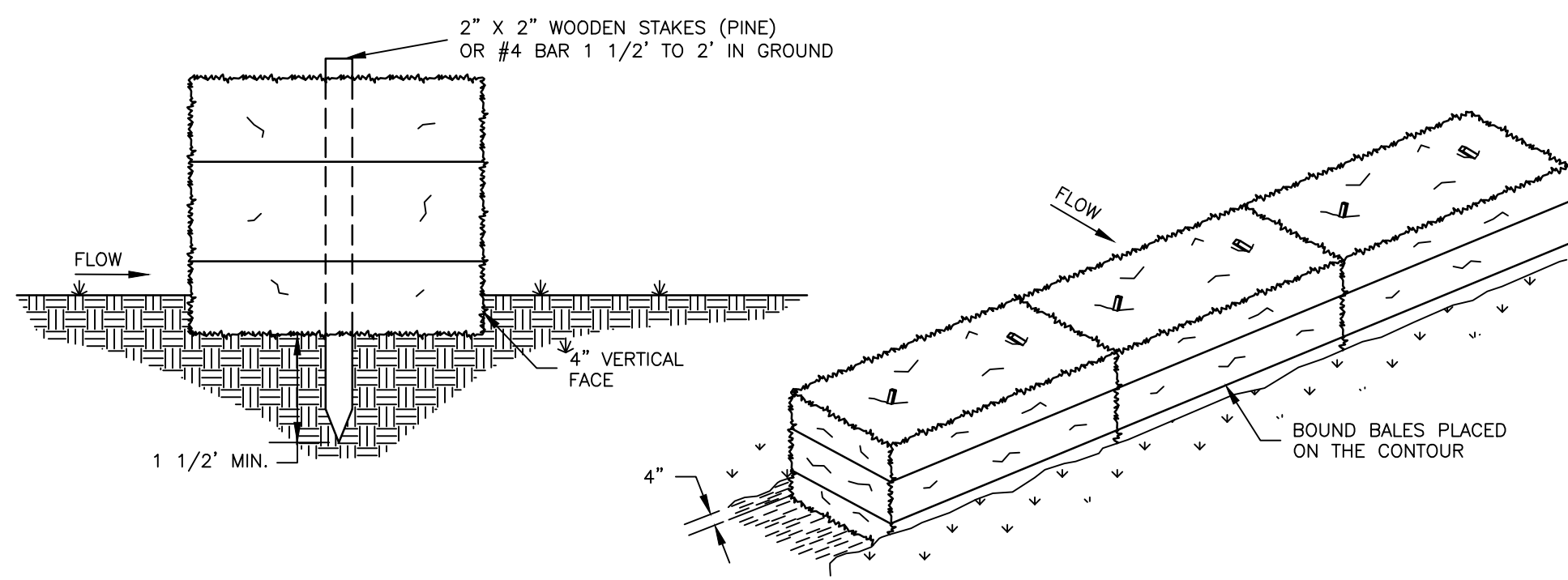
SANITARY SERVICE CONNECTION DETAIL
 SCALE: N.T.S.



NOTES:
 1) AREA OF BLOCK $A = W \times W$ (Ft²)
 2) MINIMUM BLOCK VOLUME = 1 FT³
 3) BLOCKING BASED ON OPERATING PRESSURE OF 200 PSI AND MINIMUM SOIL BEARING CAPACITY OF 1000 PSF.
 4) CONTRACTOR SHALL REPORT POOR SOIL CONDITIONS FOUND IN AREAS FOR THRUST BLOCKING PRIOR TO INSTALLATION.
 5) VOLUMES SHOWN ARE ESTIMATES AND WILL VARY DEPENDING ON THE PIPE PLACEMENT.

PIPE SIZE	THRUST BLOCK AREAS (SURFACE TOUCHING UNDISTURBED SOIL)				
	TEE & PLUGS		90°	45°	22-1/2°
2"	1 S.F. (± 1.00 C.F.)	1 S.F. (± 1.00 C.F.)	1 S.F. (± 1.00 C.F.)	1 S.F. (± 1.00 C.F.)	1 S.F. (± 1.00 C.F.)
3"	2 S.F. (± 1.75 C.F.)	2 S.F. (± 1.75 C.F.)	2 S.F. (± 1.75 C.F.)	2 S.F. (± 1.75 C.F.)	1 S.F. (± 1.00 C.F.)
4"	2 S.F. (± 1.75 C.F.)	3 S.F. (± 2.00 C.F.)	2 S.F. (± 1.75 C.F.)	1 S.F. (± 1.00 C.F.)	1 S.F. (± 1.00 C.F.)
6"	5 S.F. (± 3.25 C.F.)	6 S.F. (± 4.00 C.F.)	3 S.F. (± 2.00 C.F.)	2.5 S.F. (± 1.85 C.F.)	1 S.F. (± 1.00 C.F.)
8"	8 S.F. (± 6.00 C.F.)	12 S.F. (± 7.00 C.F.)	6 S.F. (± 4.00 C.F.)	3 S.F. (± 2.00 C.F.)	1 S.F. (± 1.00 C.F.)

CONCRETE THRUST BLOCK DETAILS
 SCALE: N.T.S.



1.) BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 2.) EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
 3.) BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR REBARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARDS PREVIOUSLY LAID BALE TO FORCE THE TWO TOGETHER.
 4.) BALES SHALL REMAIN IN PLACE AND MAINTAINED UNTIL SITE VEGETATION HAS BEEN RE-ESTABLISHED (NORMALLY ONE FULL GROWING SEASON).

STRAW BALE EROSION CONTROL DETAIL
 SCALE: N.T.S.

DWG: X:\1421500-Maynard\Maynard\Code\1421500\06_ES.dwg
 DATE: 11/17/2016 11:23:03 AM
 USER: RDBARRETT
 OPERATOR: RDBARRETT
 NOTIFY ARCHITECT IN WRITING OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWING OR SPECIFICATIONS. THE ARCHITECT SHALL BE IMMEDIATELY ADVISED OF ANY SUCH DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS. ALL CHANGES TO THE DRAWING SHALL BE IMMEDIATELY DIRECTIONED TO THE ARCHITECT.

REVISIONS

11-14-16-ADD HANDICAPPED PARKING DETAIL

10/27/16

LICENSE NO. PE-2004017257
 EXPIRATION DATE: 12/31/16

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 TOTH ENGINEERING, INC.
 838 PRIMROSE, SUITE 200
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 (P) 417-888-0645

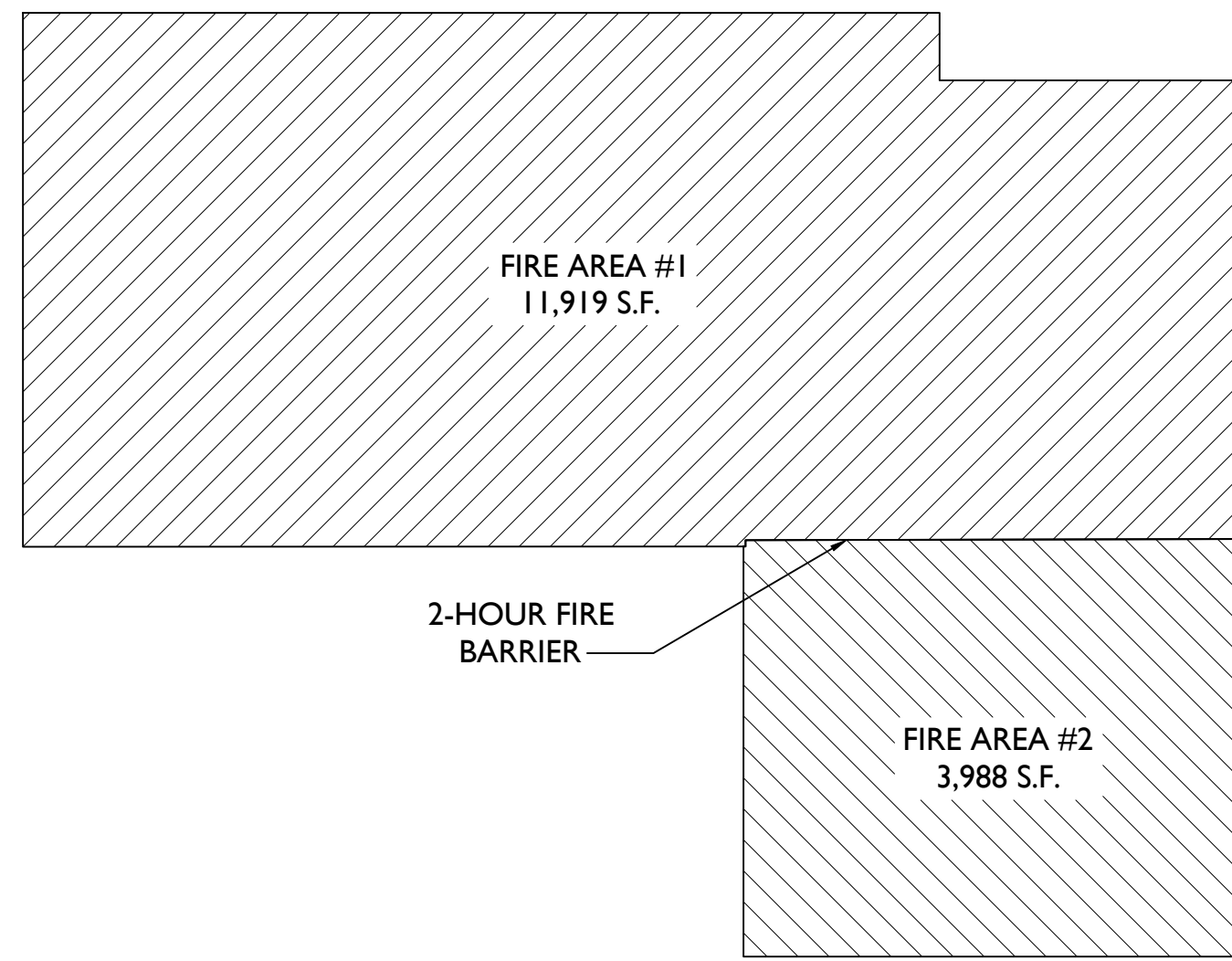
MECH / ELEC ENGINEER:
 STRICKLAND ENGINEERING
 113 W. MAIN STREET, STE 1
 JACKSON, MO 63755
 (P) 573-243-4686
 (F) 573-243-2191

NEW ELEMENTARY SCHOOL
MAYNARD SCHOOL DISTRICT

CONFIDENTIAL

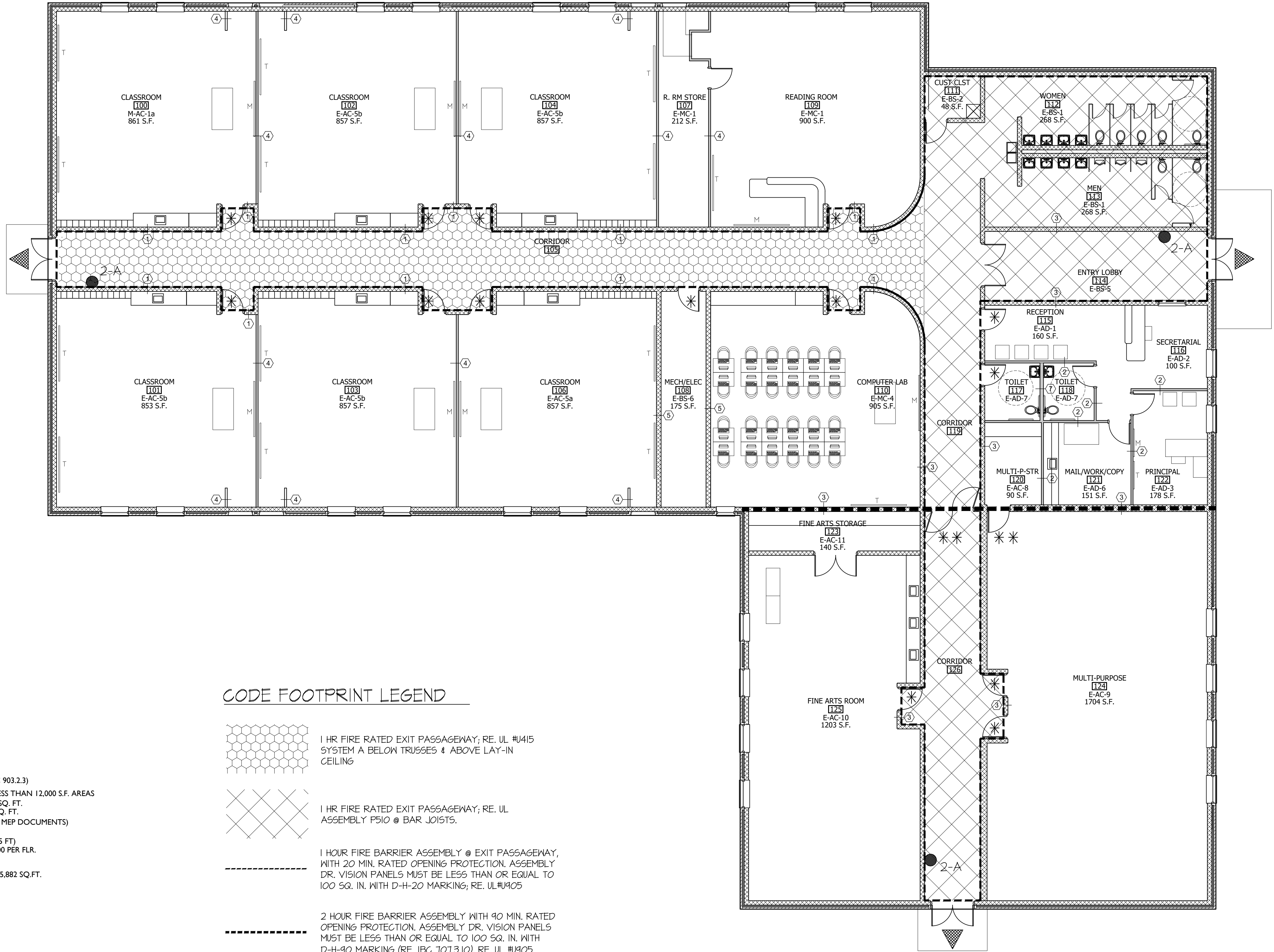
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DATE: 10-27-2016
 SHEET TITLE: CIVIL DETAILS-1
 JOB NO: 14-19
 SHEET: C5



2 FIRE AREA PLAN

NO SCALE



CODE ANALYSIS

BUILDING CODE IN EFFECT:	2012 IBC
ZONING CLASSIFICATION:	COMMERCIAL
CONSTRUCTION TYPE CLASSIFICATION:	II-B
USE GROUP CLASSIFICATION:	USE GROUP E
BUILDING FIRE SUPPRESSION SYSTEM:	NOT APPLICABLE (IBC 903.2.3)
FIRE SEPARATION BETWEEN BUILDING AREAS:	2 HR. (IBC 707.3.10) LESS THAN 12,000 S.F. AREAS FIRE AREA # 1: 11,919 SQ. FT. FIRE AREA # 2: 3,988 SQ. FT. NOT APPLICABLE (RE: MEP DOCUMENTS)
MECHANICAL VENTILATION SYSTEM:	NOT APPLICABLE (RE: MEP DOCUMENTS)
ALLOWABLE HEIGHT AND BUILDING AREAS:	HEIGHT: 2 STORIES (55 FT) E OCCUPANCY: 14,500 PER FLR.
PROPOSED HEIGHT AND BUILDING AREAS:	HEIGHT: 1 STORY GRADE LEVEL AREA: 15,882 SQ. FT.
FIRE-RESISTANCE RATING REQUIREMENTS:	
STRUCTURAL FRAME:	0 HRS.
BEARING WALLS (INT. & EXT.):	0 HRS.
NONBEARING WALLS AND PARTITIONS:	0 HRS.
ROOF CONSTRUCTION:	0 HRS.
FLOOR CONSTRUCTION:	0 HRS.
CORRIDORS:	1 HRS.
EXIT ENCLOSURE:	NA
STORAGE AREA (OVER 100 SQ. FT.):	0 HRS.
SHAFT ENCLOSURE:	NA
MECH ROOM:	0 HRS.
ELEVATOR EQUIPMENT RM:	NA

FLOOR AREA & OCCUPANCY:	MAIN LEVEL:
	CLASSROOMS: 6278 SQ. FT. (NET) / 20 = 314 OCCUPANTS
	BUS/ADMIN: 1261 SQ. FT. (GROSS) / 100 = 13 OCCUPANTS
	STORAGE/MECH: 660 SQ. FT. (GROSS) / 300 = 2 OCCUPANTS
	TOTAL MAIN LEVEL = 329 OCCUPANTS
	TOTAL BUILDING OCCUPANTS: 522 OCCUPANTS

PARKING REQUIREMENTS:	RE: CIVIL SITE PLAN
SPECIAL INSPECTION REQUIRED VERIFICATIONS:	PAGE S0.1
U.L. ASSEMBLIES:	PAGE A1.1
FIRESTOPPING ASSEMBLIES:	PAGE A1.2

CODE FOOTPRINT LEGEND

- 1 HR FIRE RATED EXIT PASSAGEWAY; RE. UL #415 SYSTEM A BELOW TRUSSES & ABOVE LAY-IN CEILING
- 1 HR FIRE RATED EXIT PASSAGEWAY; RE. UL ASSEMBLY P510 @ BAR JOISTS.
- 1 HOUR FIRE BARRIER ASSEMBLY @ EXIT PASSAGEWAY, WITH 20 MIN. RATED OPENING PROTECTION. ASSEMBLY DR. VISION PANELS MUST BE LESS THAN OR EQUAL TO 100 SQ. IN. WITH D-H-20 MARKING; RE. UL #1905
- 2 HOUR FIRE BARRIER ASSEMBLY WITH 90 MIN. RATED OPENING PROTECTION. ASSEMBLY DR. VISION PANELS MUST BE LESS THAN OR EQUAL TO 100 SQ. IN. WITH D-H-90 MARKING (RE. IBC 707.3.10), RE. UL #1905
- 2-A LOCATION OF FIRE EXTINGUISHER CABINET (CLASS 2-A)
- DESIGNATED EXIT
- 20 MIN DOOR AND FRAME ASSEMBLY
- 90 MIN DOOR AND FRAME ASSEMBLY

CODE PLAN

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

NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE ARCHITECT SHALL BE IMMEDIATELY ADVISED BY THE CONTRACTOR.

REVISIONS

1	11-18-2016	PER STATE FIRE MARSHAL
2	11-21-2016	PER STATE FIRE MARSHAL



BRETT PATRICK DILLE
ARKANSAS ARCHITECT LICENSE NO. 8794

ARCHITECTURAL CORPORATION MISSOURI
LICENSE NO. 200900549



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NEW ELEMENTARY SCHOOL
MAYNARD SCHOOL DISTRICT
MAYNARD, ARKANSAS 72444

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DATE	10-27-2016
SHEET TITLE	CODE PAGE
JOB NO.	1419
SHEET	

A1.0

REVISIONS

1	11-10-2016	PER STATE FIRE MARSHAL
2	11-21-2016	PER FIRE MARSHALL



BRETT PATRICK DILLE
ARKANSAS ARCHITECT LICENSE NO. 6794

ARCHITECTURAL CORPORATION MISSOURI
LICENSE NO. 200902469

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ARCHITECTURE

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DATE

10-27-2016

SHEET TITLE

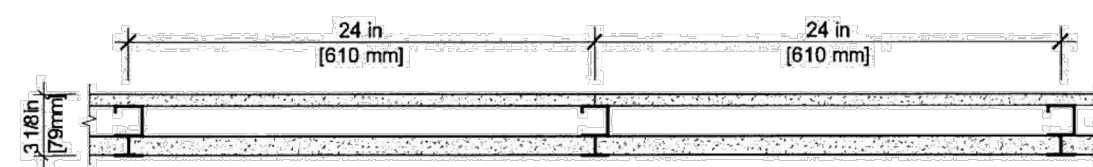
U.L. ASSEMBLIES

JOB NO.

1419

SHEET

AI.1



UL U415 System A

Shaft Wall -Steel Stud (Non-load-bearing)

Fire Rating	1 hour
System Thickness	3-1/8"

Assembly Options

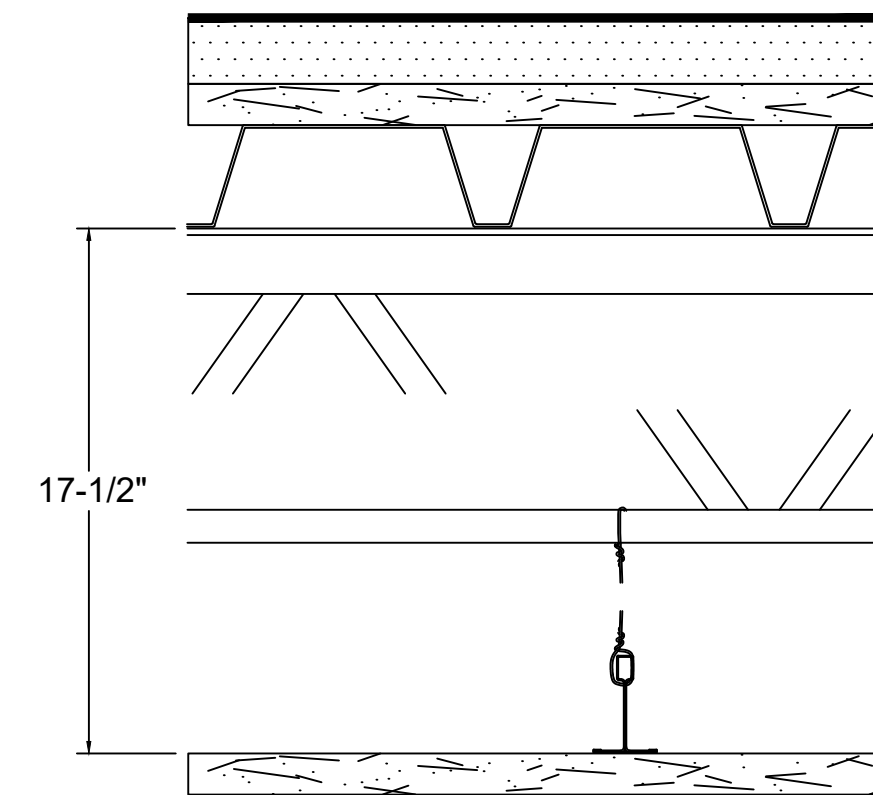
Gypsum Board - 5/8 in. thick gypsum board applied horizontally or vertically

- * USG Sheetrock® Brand Gypsum Panels AR Firecode® X - 5/8" (UL Type AR)
- * USG Sheetrock® Brand Glass-Mat Panels Mold Tough® AR Firecode® X - 5/8" (UL Type AR)
- * USG Durock™ Brand Glass-Mat Tile Backerboard - 5/8" (UL Type SGX)
- * USG Fiberock® Brand Aqua-Tough™ AR Interior Panels - 5/8" (UL Type FRX-G)
- * USG Sheetrock® Brand Glass-Mat Panels Mold Tough® VHI Firecode® X - 5/8" (UL Type AR)
- * USG Fiberock® Brand AR Interior Panels - 5/8" (UL Type FRX-G)
- * USG Sheetrock® Brand Mold Tough® AR Firecode® X Panels - 5/8" (UL Type AR)
- * USG Sheetrock® Brand Gypsum Base Imperial® Firecode® C - 5/8" (UL Type IP-X2)
- * USG Sheetrock® Brand Firecode® C Panels - 5/8" (UL Type C)
- * USG Sheetrock® Brand Gypsum Base Imperial® Firecode® X - 5/8" (UL Type IP-X1)
- * USG Sheetrock® Brand Mold Tough® Firecode® C Panels - 5/8" (UL Type C)
- * USG Sheetrock® Brand Mold Tough® Panels Firecode® X - 5/8" (UL Type SCX)
- * USG Sheetrock® Brand Mold Tough® VHI Firecode® X Panels - 5/8" (UL Type AR)
- * USG Sheetrock® Brand Firecode® X Panels - 5/8" (UL Type SCX)
- * USG Sheetrock® Brand Glass-Mat Panels Mold Tough® - 5/8" (UL Type SGX)
- * USG Sheetrock® Brand UltraLight Panels Firecode® X - 5/8" (UL Type ULX)

Steel Studs - Min. 2-1/2 in. USG C-H studs, 25 ga. spaced 24 in. OC

Gypsum Board - 1 in. thick by nom. 2 ft. wide gypsum liner panels friction fit

- * USG Sheetrock® Brand Mold Tough® Gypsum Liner Panels - 1" (UL Type SLX)
- * USG Sheetrock® Brand Glass-Mat Liner Panels Mold Tough® - 1" (UL Type SLX)



System Performance
1-1/2 HR Fire
UL Design No. P510

System Description

Roof Ceiling Assembly

- roof covering
- min. 1" mineral and fiber boards on foamed plastic roof insulation
- 5/8" SECUROCK Brand Roof Board
- min. 1" deep steel roof deck
- steel joists type 10J4 or 12K3 @ 72" o.c. max
- 15/16" wide USG DGL Drywall Suspension System
- 5/8" SHEETROCK Brand FIRECODE C Core Gypsum Panels

U.L. ASSEMBLY U415 SYSTEM A

N.T.S.

BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U905

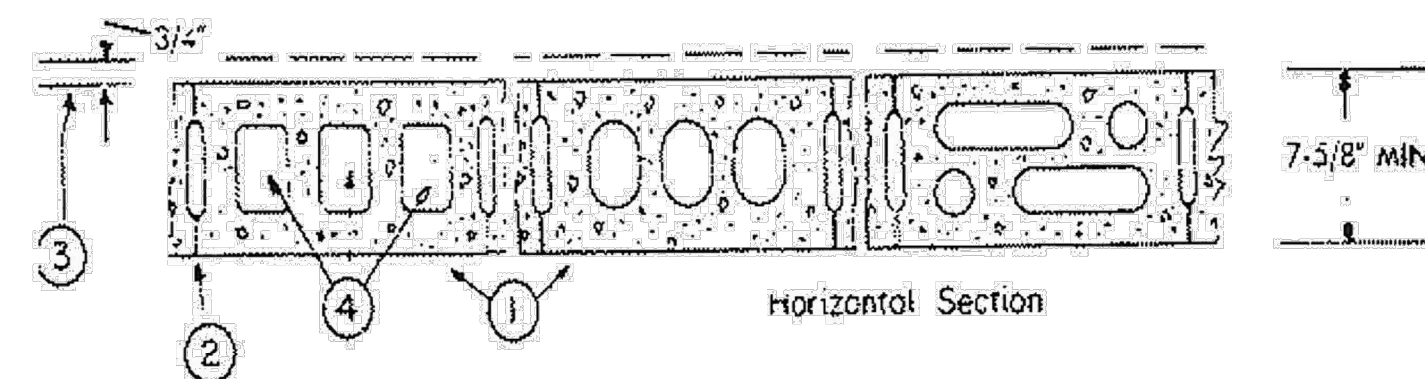
March 11, 2016

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Concrete Blocks* — Various designs. Classification D-2 (2 hr).

See Concrete Blocks category for list of eligible manufacturers.

2. Mortar — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. Portland Cement Stucco or Gypsum Plaster — Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be

U.L. ASSEMBLY U905

N.T.S.

applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. Loose Masonry Fill — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. Foamed Plastic* — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation" and "EnergyShield Pro 2 Wall Insulation"

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ Sheath

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS — Types Xci-Class A, Xci 286

RMAX OPERATING L L C — "TSX-8500", "TSX-8510", "Thermasheath-XP", "ECOMAXci", "Thermasheath-3", "Durasheath-3"

THE DOW CHEMICAL CO — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP) and TUFF-R™ ci Insulation

5A. Building Units — As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

RMAX OPERATING L L C — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI"

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2016-03-11

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REVISIONS



BRETT PATRICK DILLE
ARKANSAS ARCHITECT LICENSE NO. 8794

DILLE & TRAXEL, LLC
ARKANSAS LICENSE NO. 14-04



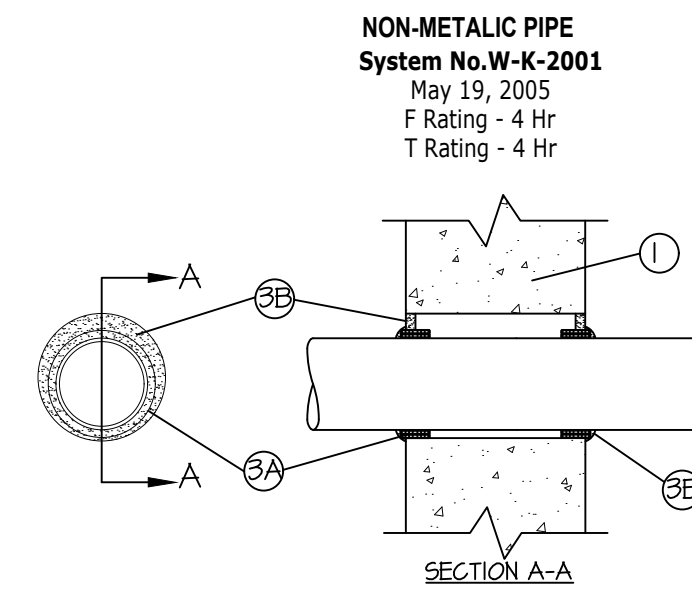
NEW HIGH SCHOOL
MAYNARD SCHOOL DISTRICT
74 CAMPUS DRIVE
MAYNARD, ARKANSAS 72444

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DATE
07/31/2015
SHEET TITLE
THROUGH PENETRATIONS
JOB NO.
1418
SHEET

AI.2



1. Wall Assembly - Min 8-5/8 in. (219 mm) thick wall assembly constructed of any UL Classified **Concrete Blocks*** or common bricks, laid up with mortar. Max diam of opening is 3 in. (76 mm).

See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrants - One nonmetallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe or conduit and periphery of opening shall be min of 1/4 in. to max 1/8 in. (6 mm to max 22 mm). Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:

- A. **Polyvinyl Chloride (PVC) Pipe** - Nom 1-1/2 in. (38 mm) diam (or smaller), Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 1-1/2 in. (38 mm) diam (or smaller) SDR135 CPVC pipe for use in closed (process or supply) piping systems.
- C. **Rigid Nonmetallic Conduit** - Nom 1-1/2 in. (38 mm) diam (or smaller), Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NECA No. 70).
- D. **Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 1-1/2 in. (38 mm) diam (or smaller), Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- E. **Fire Retardant Polypropylene (FRPP) Pipe** - Nom 1-1/2 in. (38 mm) diam (or smaller), Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

3. Firestop System - The firestop system shall consist of the following:

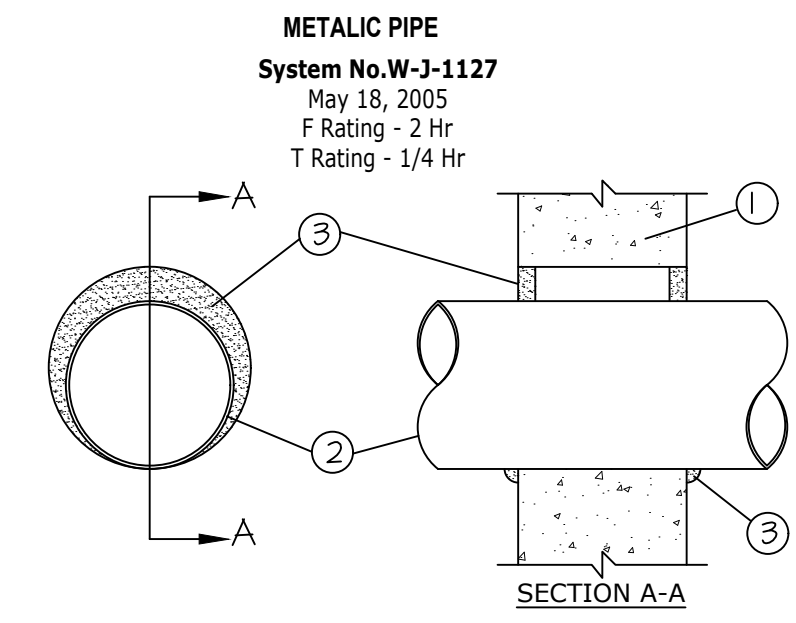
- A. **Fill, Void or Cavity Materials* - Wrap Strip** - Nom 1/8 in. (3.2 mm) thick intumescent material supplied in 2 in. (51 mm) wide strips. Two continuous layers of wrap strip tightly wrapped around nonmetallic pipe and held in place with 2 in. (51 mm) wide minimum 3 mil foil tape. Wrap strip to be slid into annular space on both sides of wall such that a 1/4 in. (6 mm) of wrap strip extends beyond both surfaces of the wall.

3M COMPANY - Ultra 66

- B. **Fill, Void or Cavity Materials* - Caulk or Sealant** - Min thickness of 5/8 in. (16 mm) of caulk applied within annulus between wrap strip and periphery of the opening. Flush with both surfaces of wall assembly. An additional 1/4 in. (6 mm) diam bead of caulk applied at the wrap strip/wall interface on both sides of wall.

3M COMPANY - CP 255B+, IC 155B+ caulk or FB-3000 NT sealant
(Note: CP 255B+ not suitable for use with CPVC pipes.)

*Bearing the UL Classification Mark
+Bearing the UL Listing Mark



1. Wall Assembly - Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 10-1/2 in. (267 mm).

See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrants - One metallic pipe, conduit, tubing or flexible metal pipe installed concentrically or eccentrically within opening. Annular space between penetrant and periphery of opening to be min 0 in. (point contact) to max 1-7/8 in. (48 mm) Penetrant to be rigidly supported on both sides of wall. The following types and sizes of penetrants may be used:

- A. **Steel Pipe** - Nom 2 in. (203 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
- B. **Iron Pipe** - Nom 2 in. (203 mm) diam (or smaller) cast or ductile iron pipe.
- C. **Conduit** - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or nom 6 in. (152 mm) rigid steel conduit.
- D. **Copper Tubing** - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
- E. **Copper Pipe** - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
- F. **Through Penetrating Product* - Flexible Metal Piping** - The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC.

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

TITFLEX CORP, A BUNDY CO.

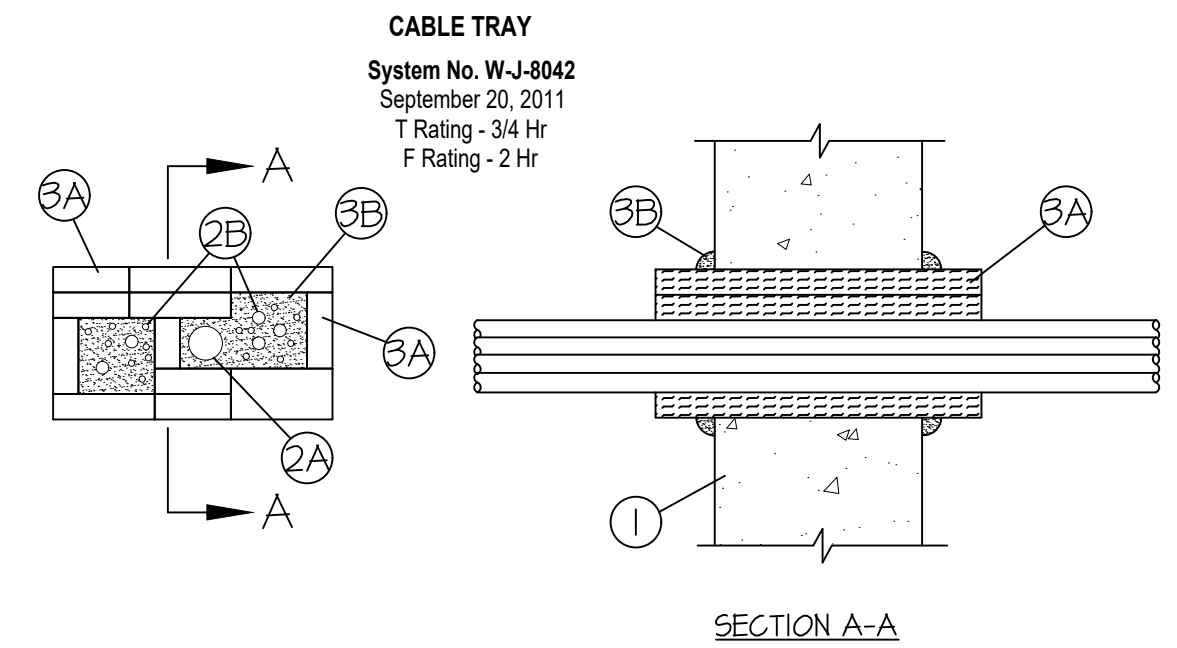
3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG INC.

3. Fill, Void or Cavity Material* - Caulk or Sealant - Min 5/8 in. (16 mm) thickness of caulk applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to penetrant/wall interface at point contact location on both sides of wall.

3M COMPANY - CP 255B+, IC 155B+ caulk or FB-3000 NT sealant.

*Bearing the UL Classification Marking



1. Wall Assembly - Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max size of opening to be 8 in. (114 mm) high by 16 in. (406 mm) wide.

See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.

2. Through-Penetrants - Max two cables bundles and one optical fiber raceway as described below. Through penetrants to be rigidly supported on both sides of wall assembly. The following types and sizes of through-penetrants may be used:

A. **Nonmetallic Penetrant** - One nonmetallic raceway as described in a single line item below.

AI. **Optical Fiber/Communications/Signaling/Coaxial Cable Raceways*** - Nom 1-1/4 in. (32 mm) diam (or smaller) plenum rated raceways installed in accordance with the National Electrical Code (NFPA No. 70). Raceway to be positioned in the center of the wall opening.

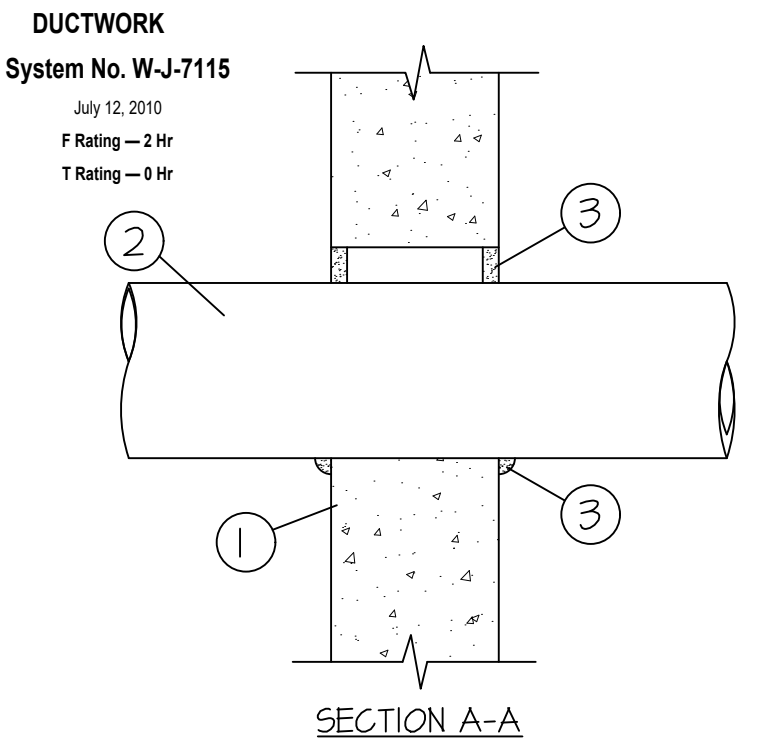
See **Optical Fiber/Communications/Signaling/Coaxial Cable Raceway (CAZM)** category in the Electrical Construction Equipment Directory for names of manufacturers.

B. **Cables** - Cables installed in a max of two bundles having a max bundle diam of 4 in. (102 mm). Cable bundles to be positioned in the middle of wall opening and a min of 2-1/2 in. (64 mm) from opening edge to center of bundle.

3. Firestop System - The firestop system shall consist of the following:

A. **Fill, Void or Cavity Materials* - Pillows** - Max 9 in. (229 mm) long by 6 in. (152 mm) wide by 2 and 3 in. (51 and 76 mm) thick plastic covered pillows tightly-packed to fill annular space between the cable bundles, raceway and periphery of opening and the annular space between the cable bundles and raceway installed within the opening. Pillows installed with 9 in. (229 mm) dimension projecting through wall and centered within the opening.

3M COMPANY
3M FIRE PROTECTION PRODUCTS - Fire Barrier Pillow or Fire Barrier Self-Locking Pillow



1. Wall Assembly - Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 14 in. (356 mm).

See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.

2. Steel Duct - Nom 12 in. (305 mm) diam (or smaller) No. 26 gauge (or heavier) spiral wound or long seam galv steel duct. The duct shall be constructed and reinforced in accordance with SMACNA construction standards. Annular space between duct and periphery of opening to be min 0 in. (point contact) to max 2 in. (51 mm). Duct to be rigidly supported on both sides of the wall assembly.

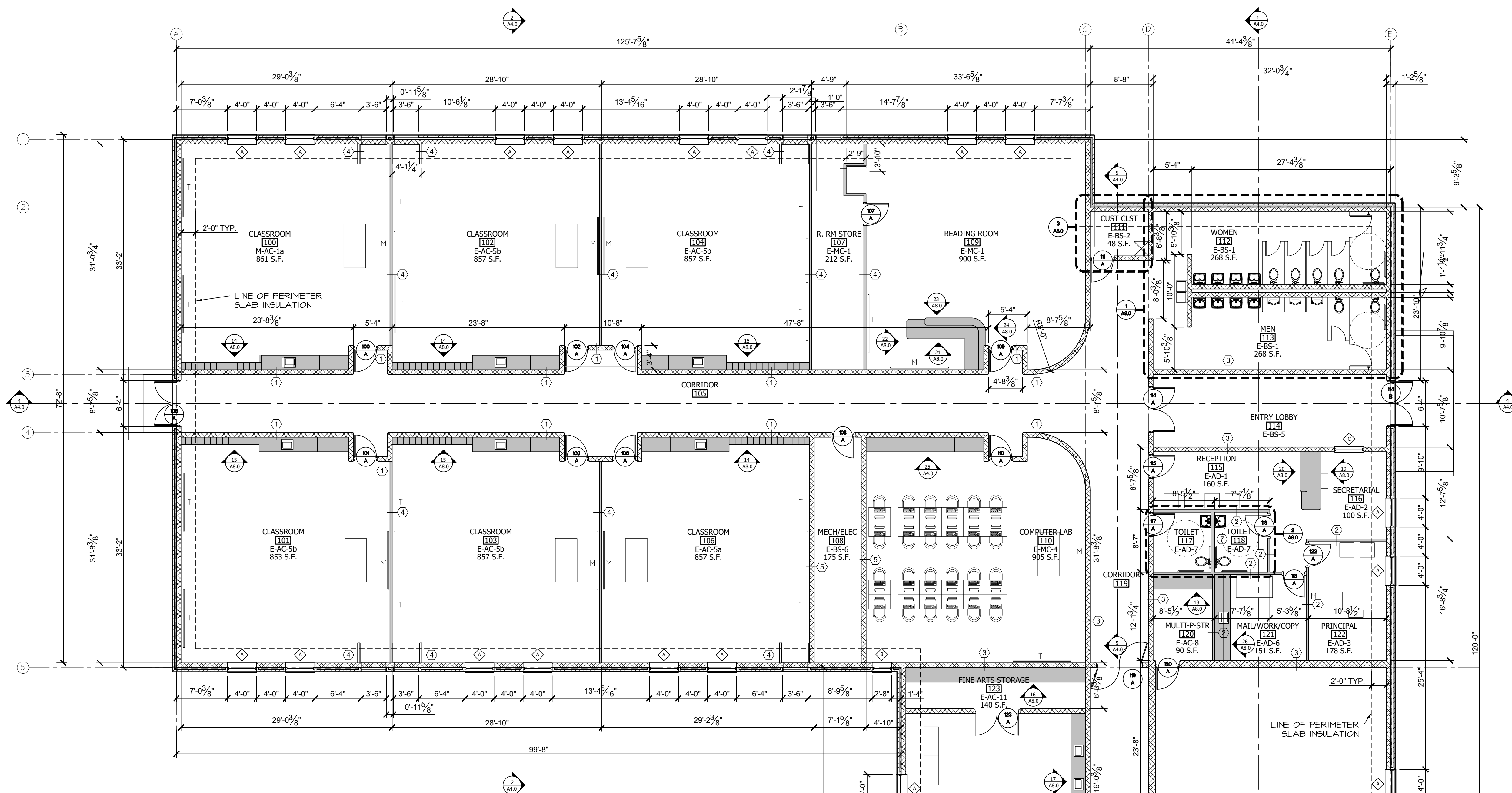
3. Fill, Void or Cavity Material* - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At point contact location, min 1/4 in. (6 mm) diam bead of fill material applied at steel duct/concrete interface on both surfaces of wall.

3M COMPANY
3M FIRE PROTECTION PRODUCTS - IC 155B+, CP 255B+ or FB-3000 NT sealant

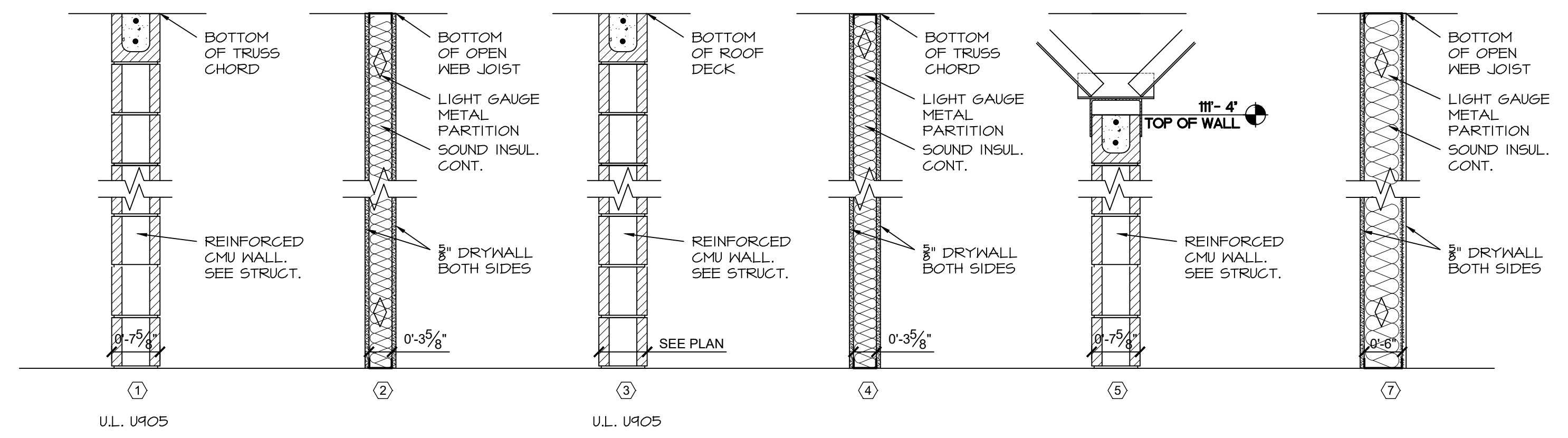
*Bearing the UL Classification Mark

2 THROUGH PENETRATION FIRESTOP ASSEMBLIES
NTS.

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



REVISIONS	
1	REVISED INTERIOR ELEVATION TAGS
2	11-18-2016
3	REVISED TO DOUBLE EGRESS DOOR
4	11-18-2016
5	PER STATE FIRE MARSHAL



BRETT PATRICK DILLE
ARKANSAS ARCHITECT LICENSE NO. 200902485

ARCHITECTURAL CORPORATION MISSOURI
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DATE: 10-27-2016
SHEET TITLE: FLOOR PLAN
JOB NO: 1419
SHEET

A2.0

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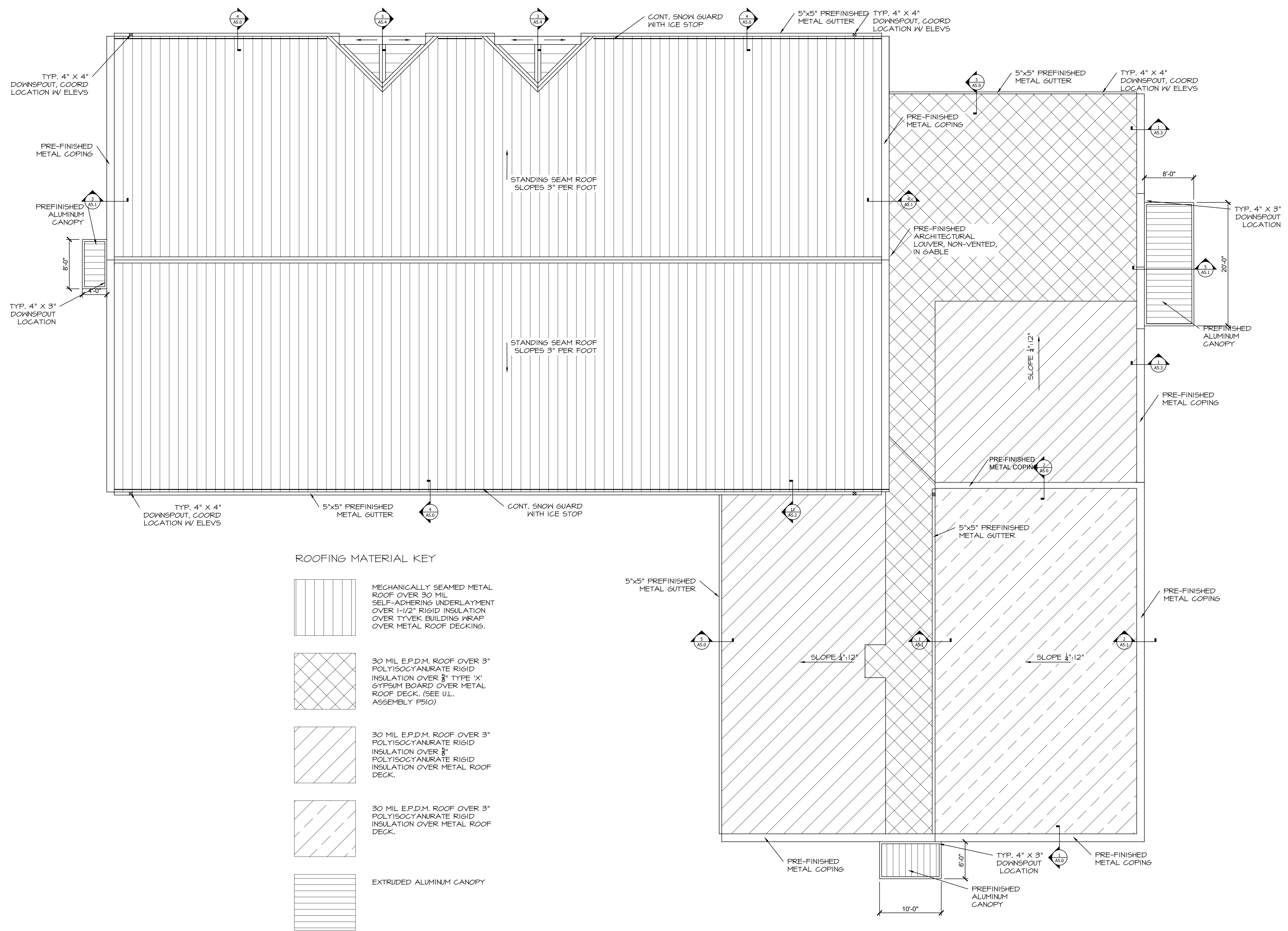
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DATE
10-27-2016
SHEET TITLE
ROOF PLAN
JOB NO.
1419
SHEET

A2.1



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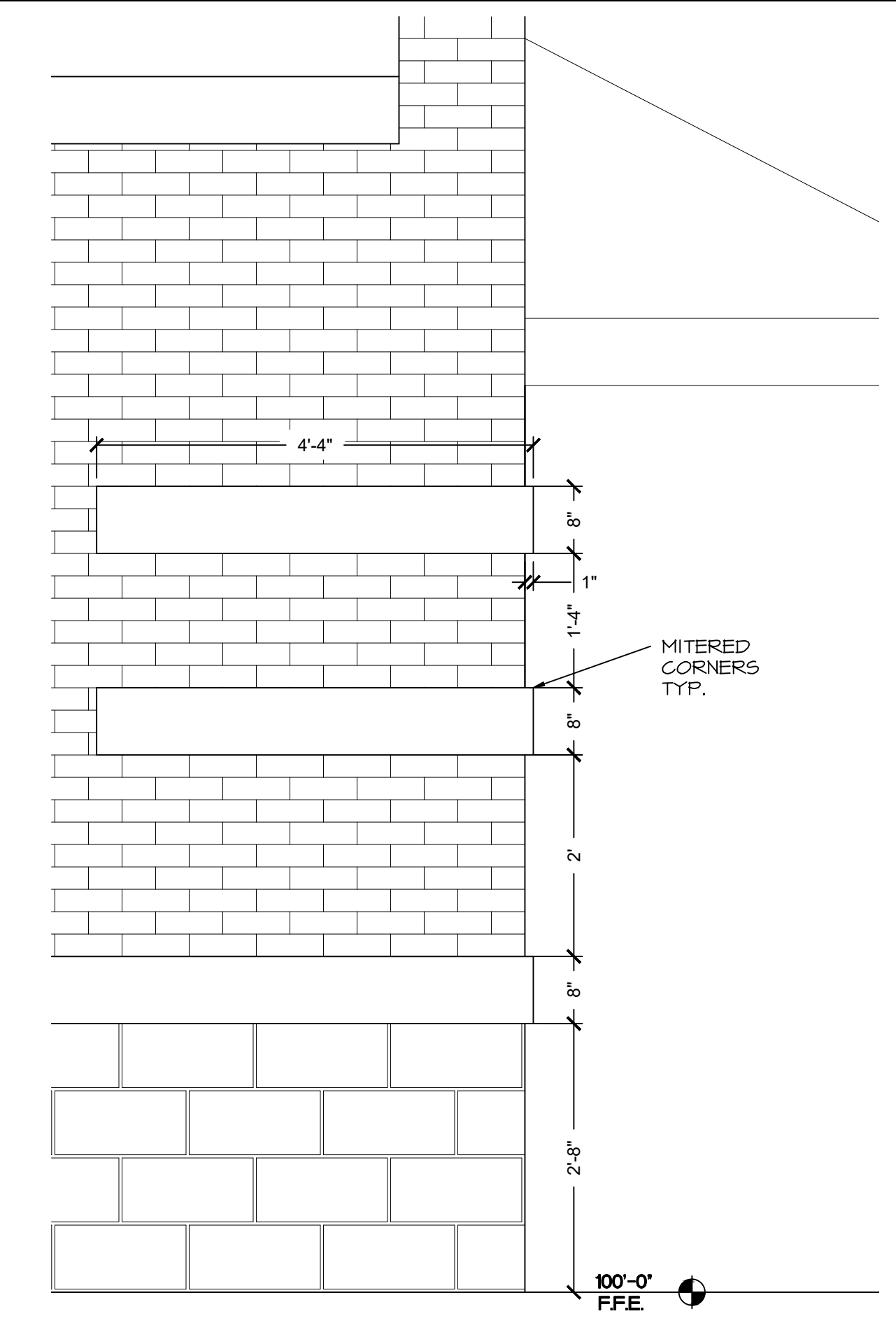
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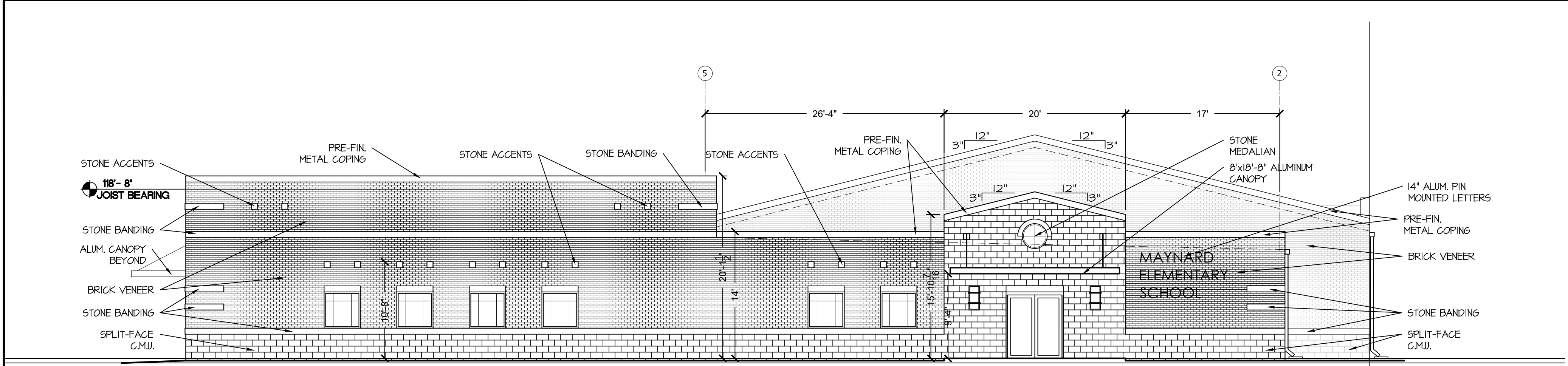
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DATE: 10-27-2016
SHEET TITLE: EXTERIOR ELEVATIONS
JOB NO.: 1419
SHEET

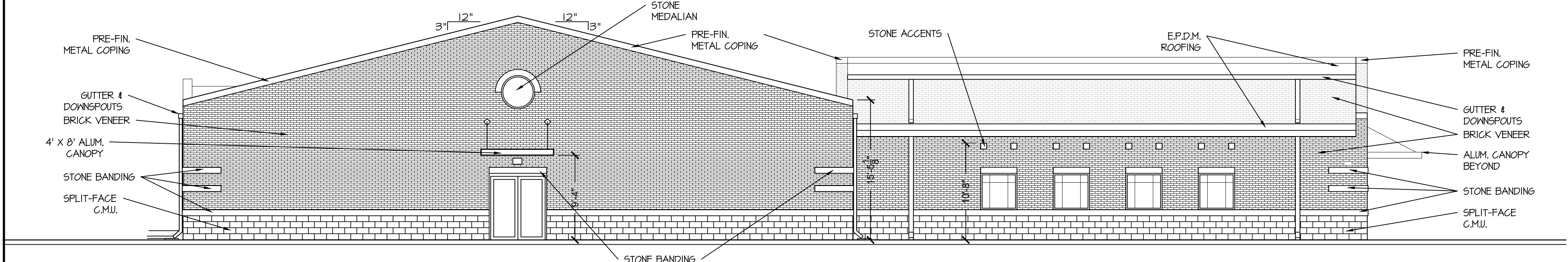
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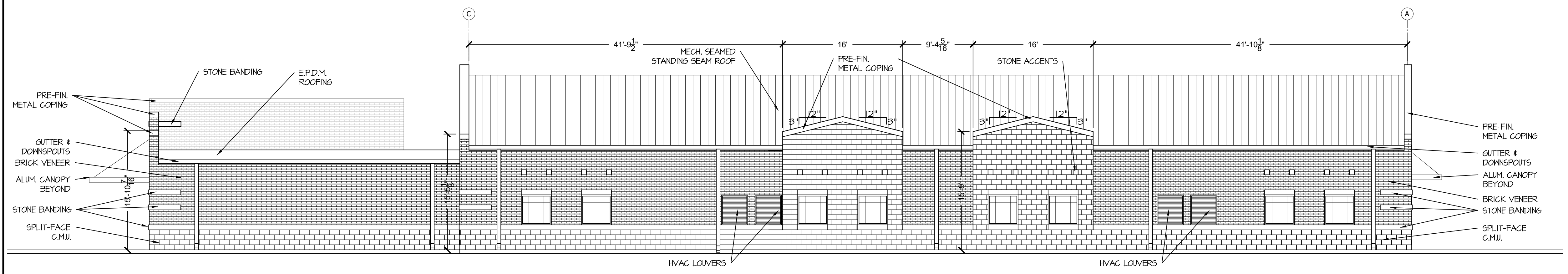
5 TYP. STONE BANDING
SCALE: 3/4" = 1'-0"



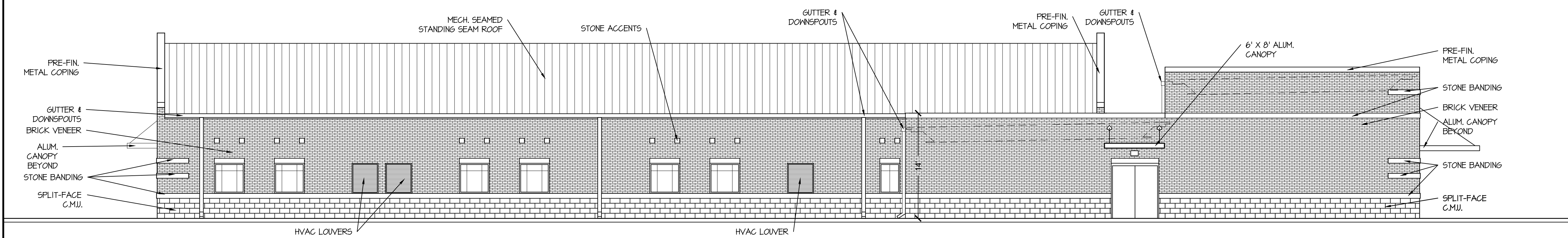
SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



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

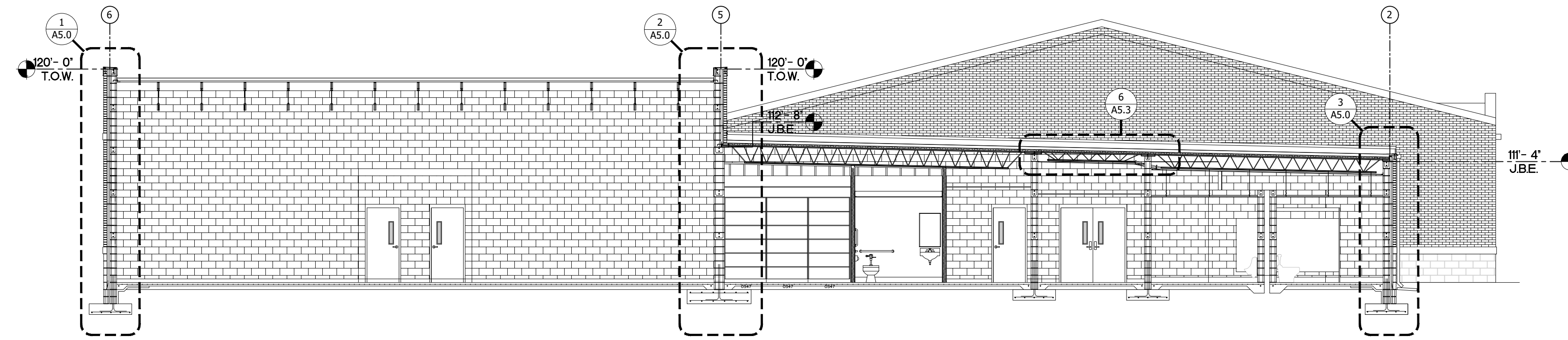


3 EAST ELEVATION
SCALE: 1/8" = 1'-0"

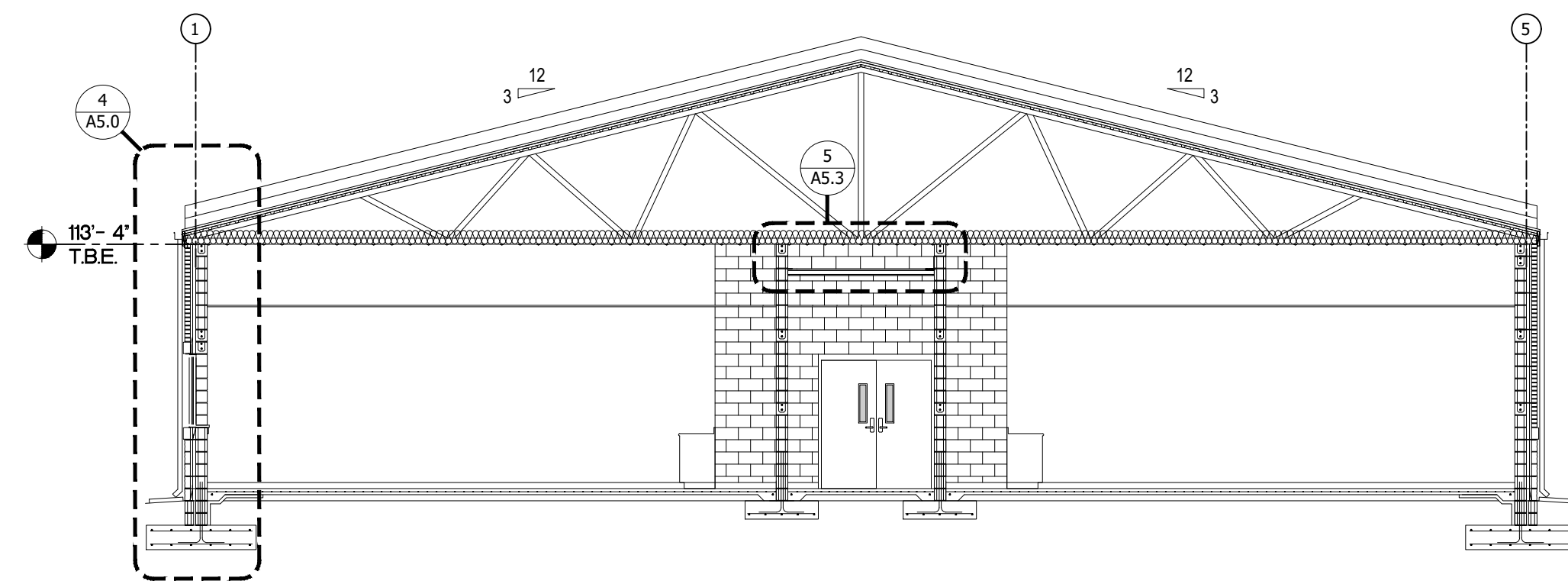


4 WEST ELEVATION
SCALE: 1/8" = 1'-0"

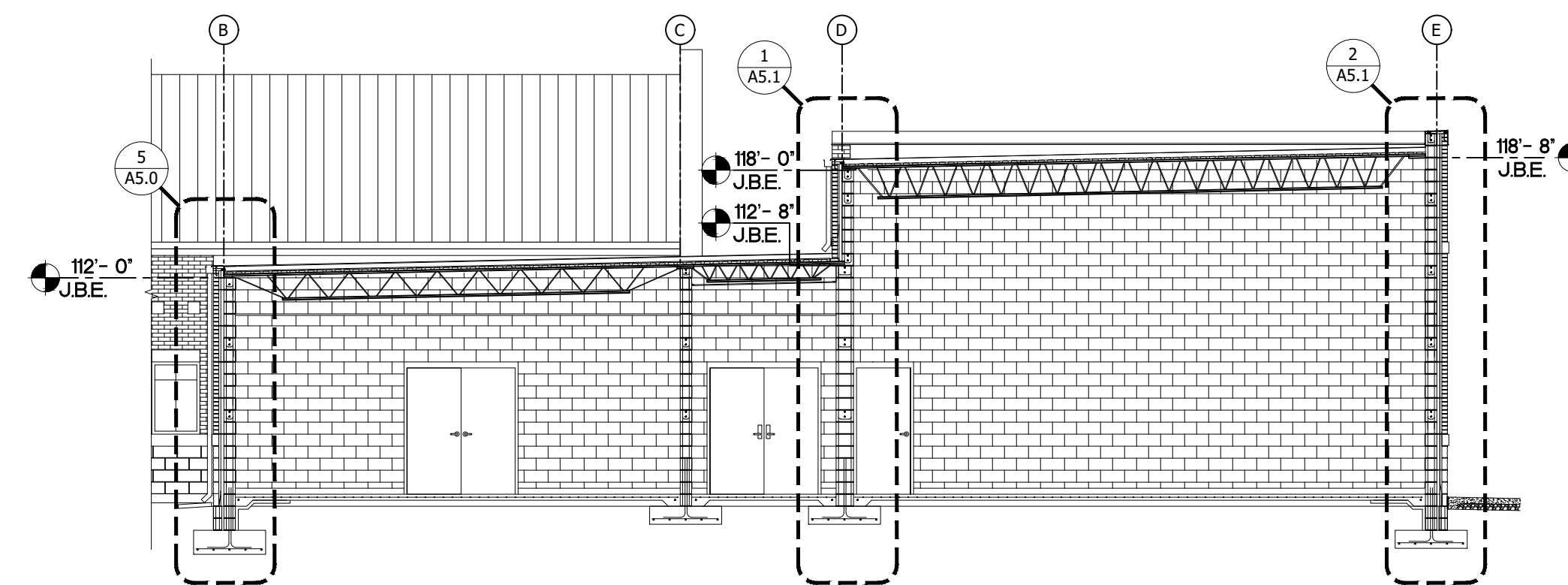
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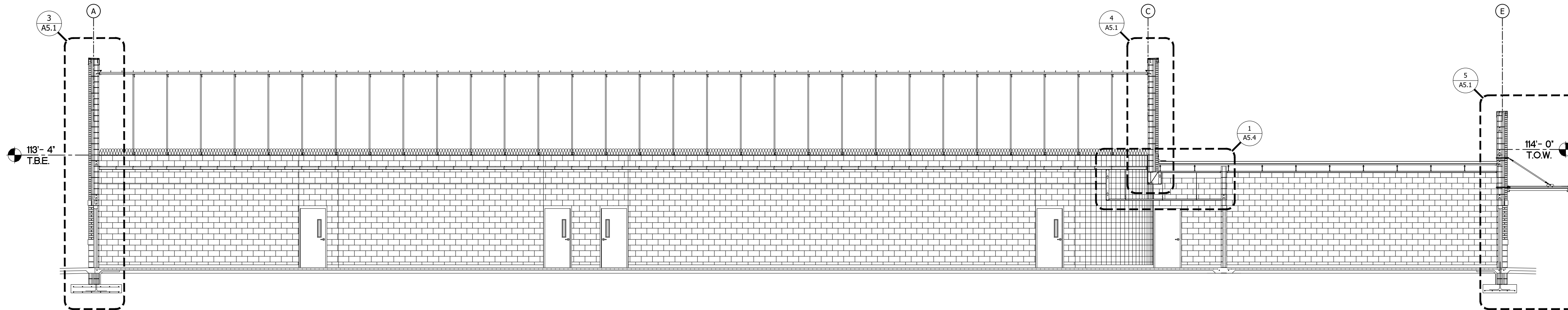
1 BUILDING SECTION
SCALE: 1/8" = 1'-0"



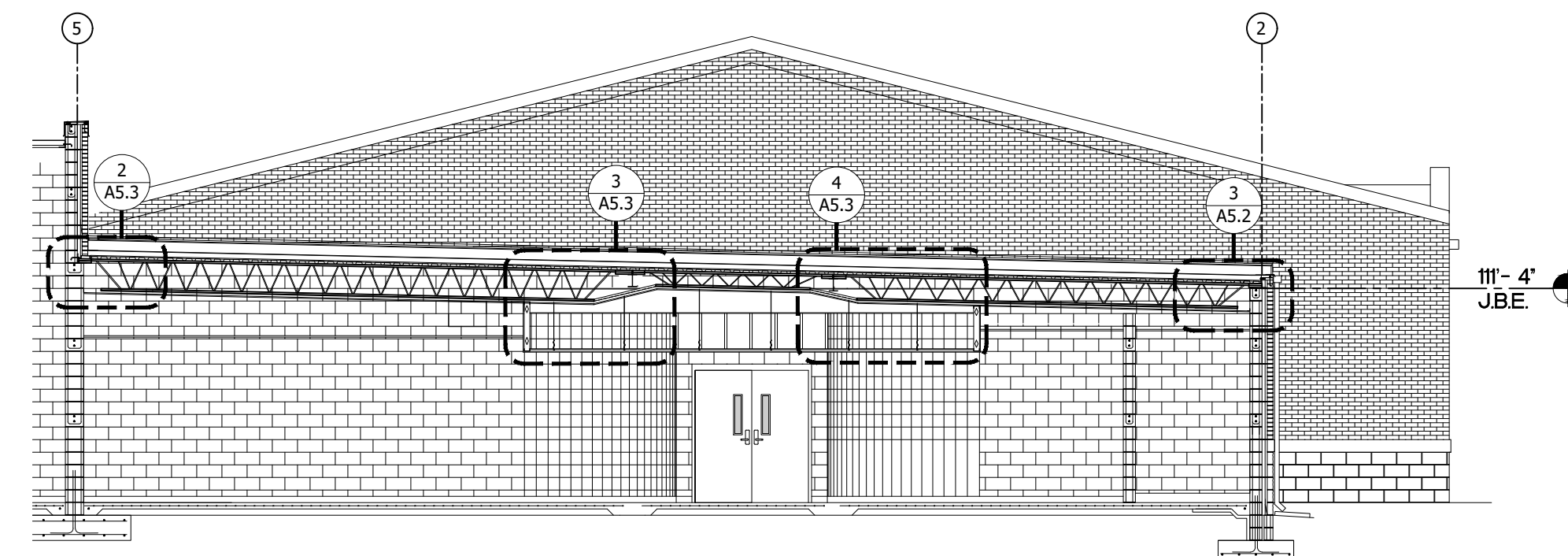
2 BUILDING SECTION
SCALE: 1/8" = 1'-0"



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



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



5 BUILDING SECTION
SCALE: 1/8" = 1'-0"

REVISIONS



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DATE
10-27-2016
SHEET TITLE
BUILDING SECTIONS
JOB NO.
1419
SHEET

A4.0

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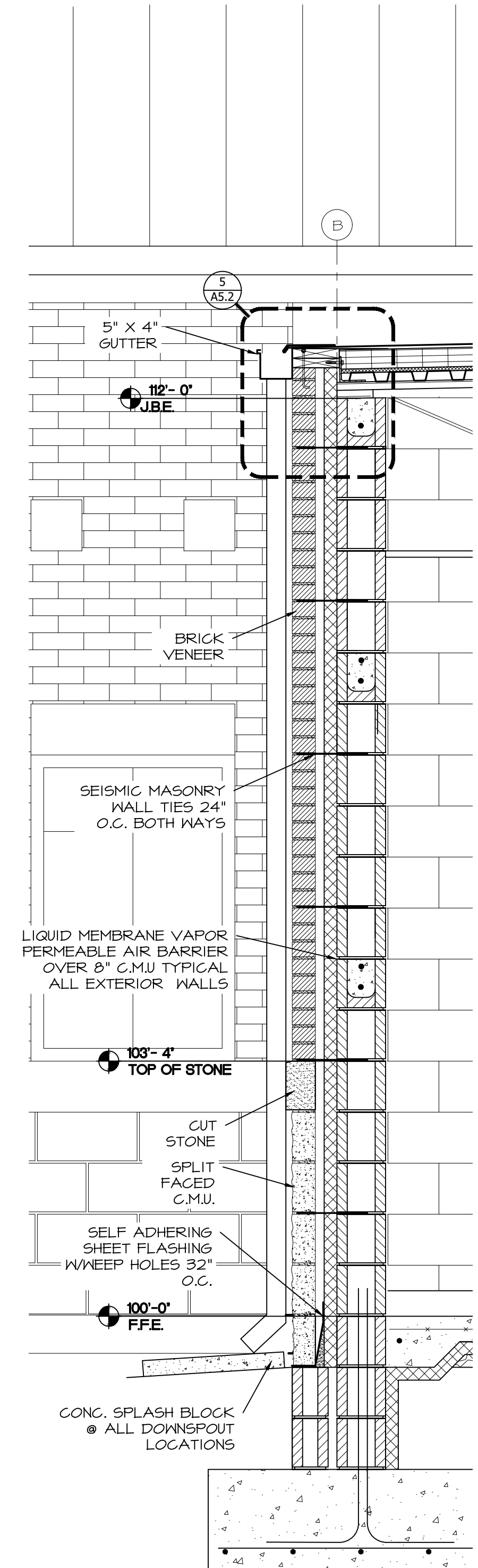
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MAYNARD, ARKANSAS 72444

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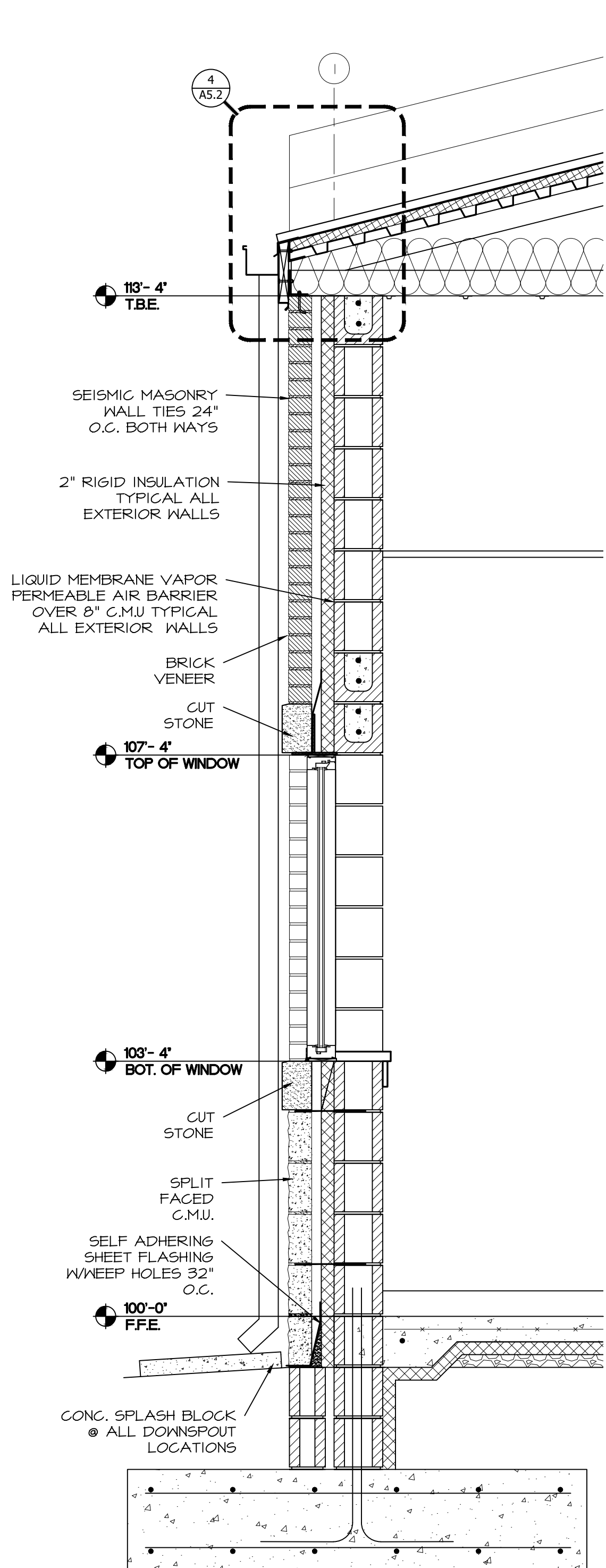
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DATE
10-27-2016
SHEET TITLE
WALL SECTIONS
JOB NO.
1419
SHEET

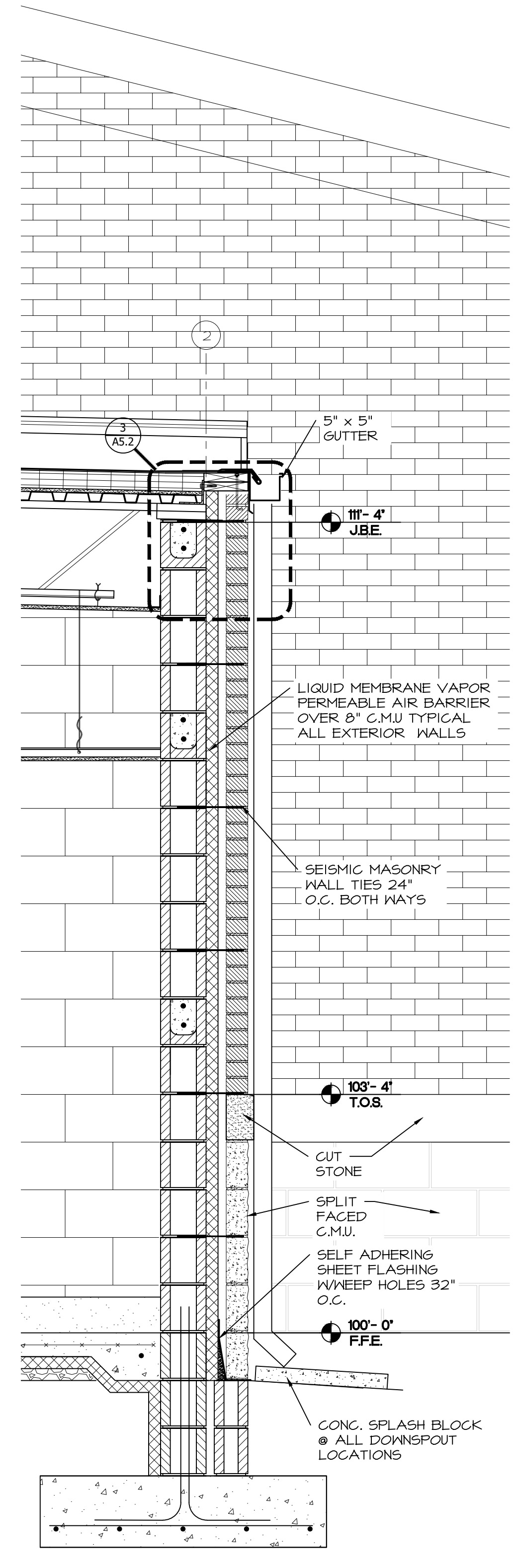
A5.0



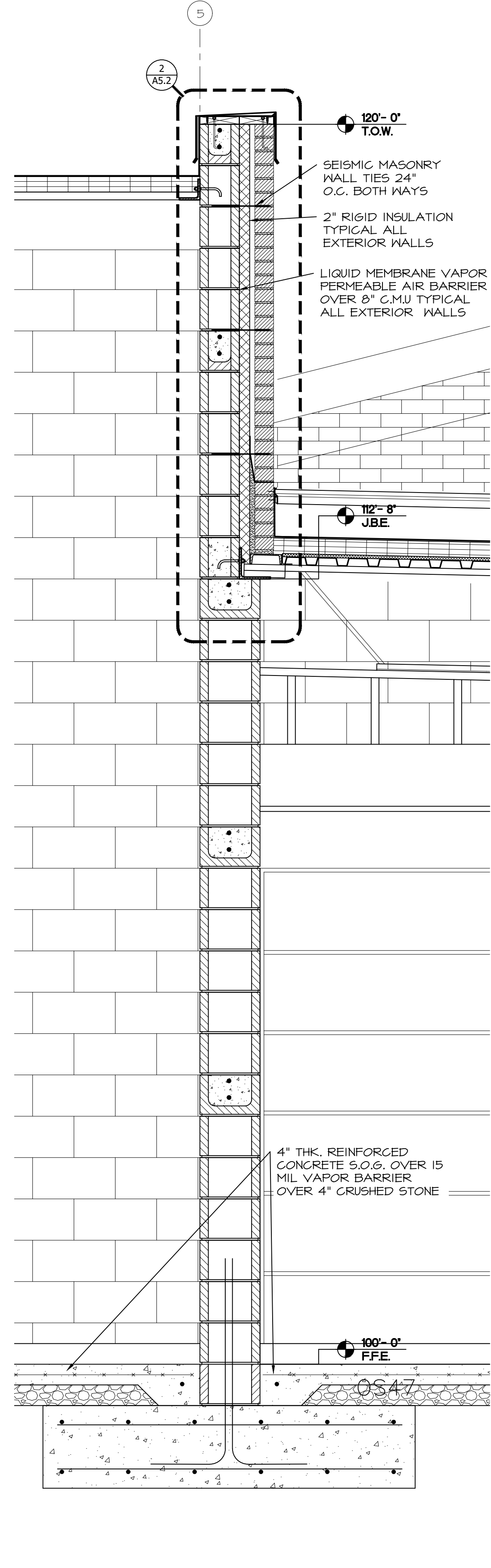
5 WALL SECTION
SCALE: 3/4" = 1'-0"



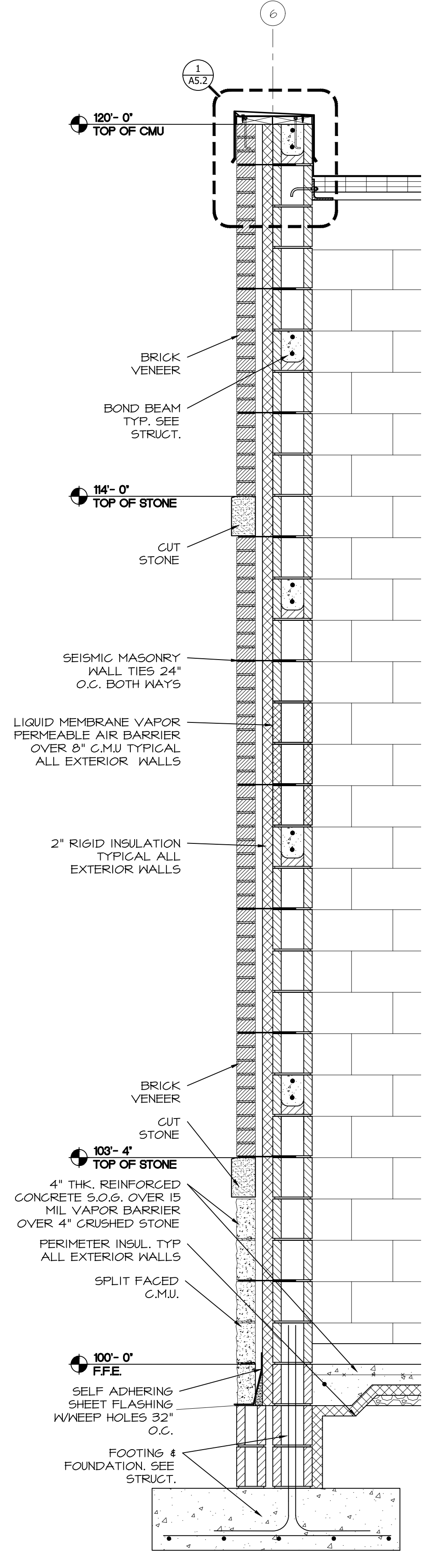
4 WALL SECTION
SCALE: 3/4" = 1'-0"



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



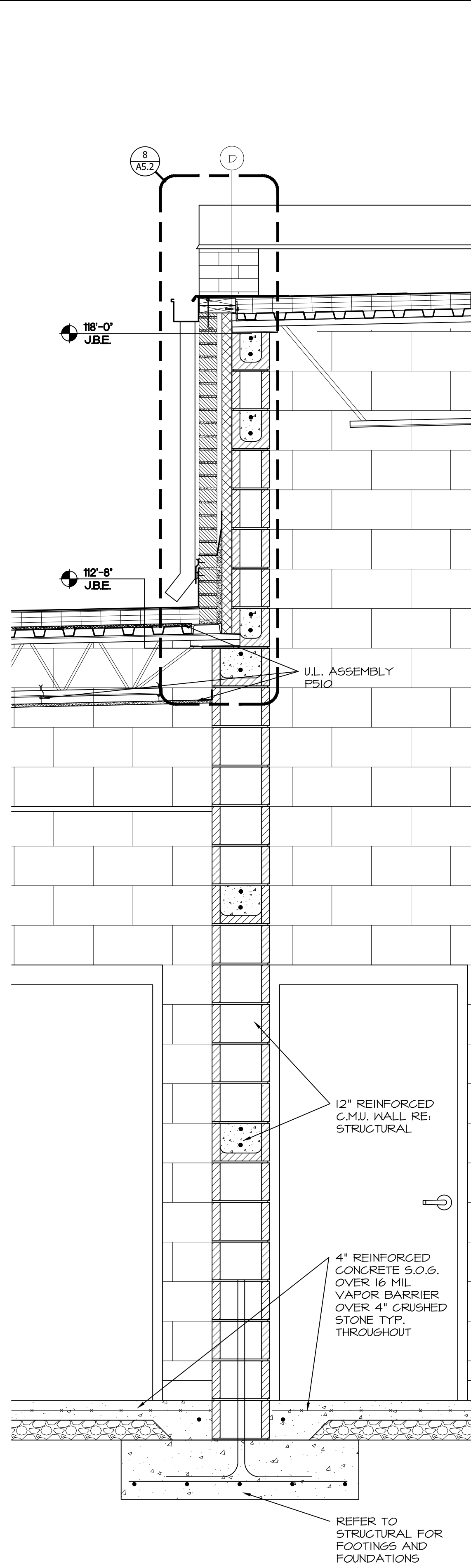
2 WALL SECTION
SCALE: 3/4" = 1'-0"



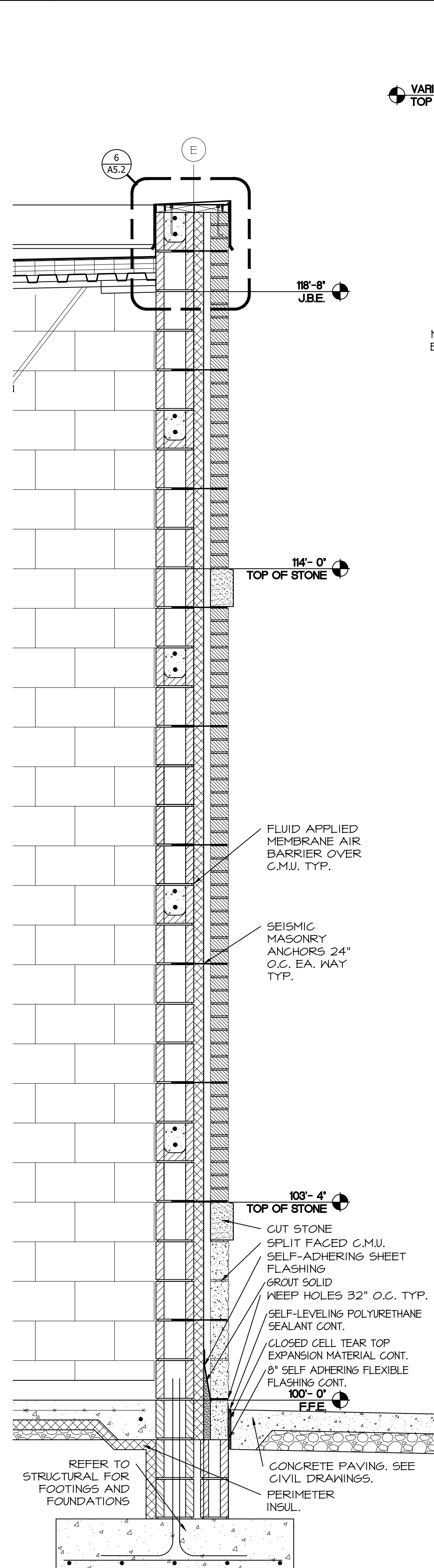
1 WALL SECTION
SCALE: 3/4" = 1'-0"

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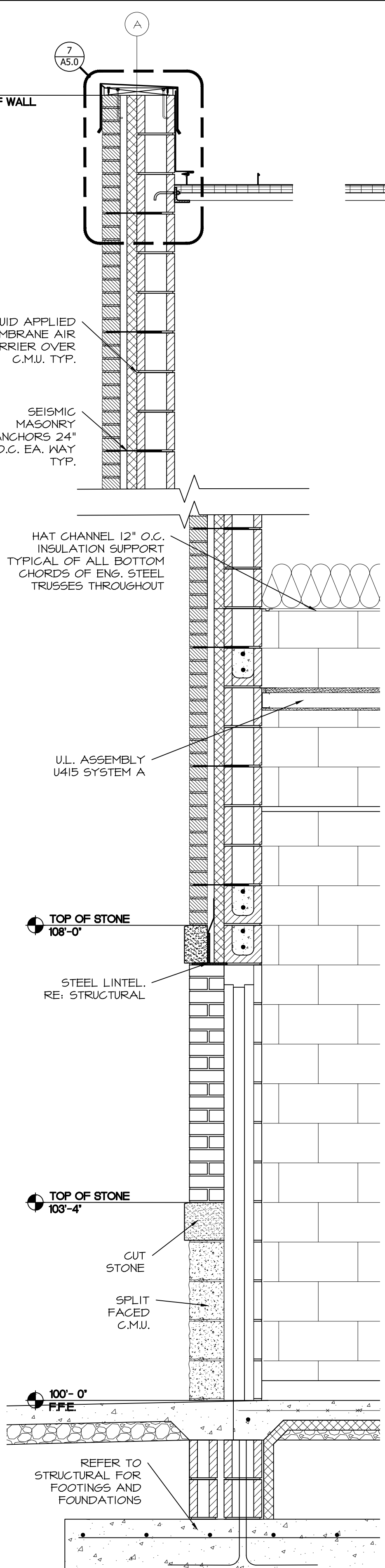
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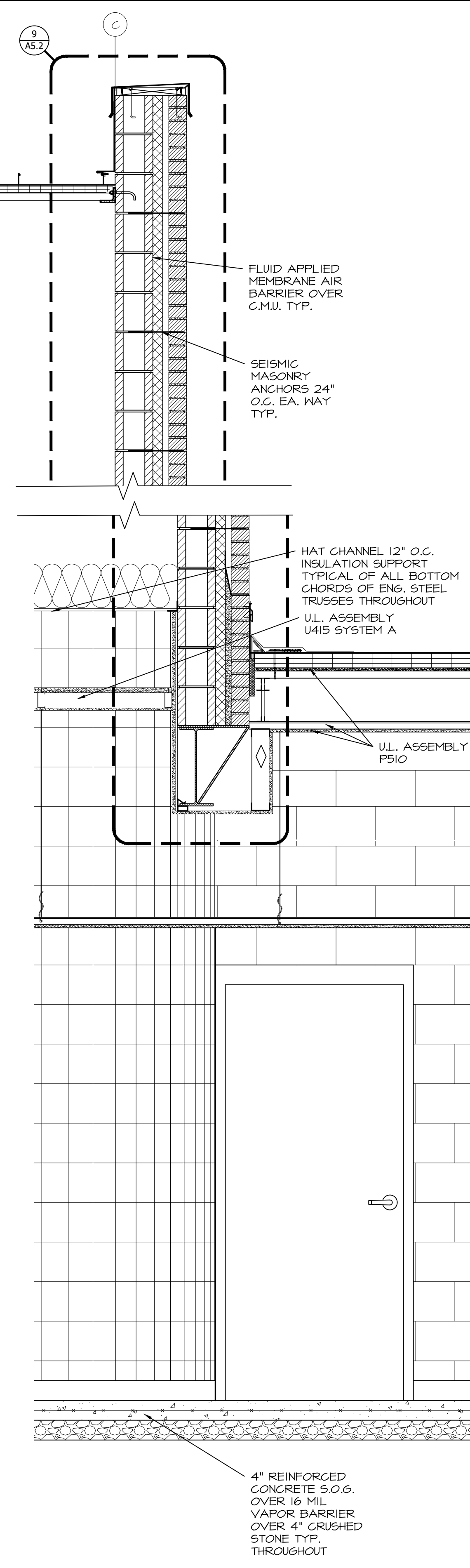
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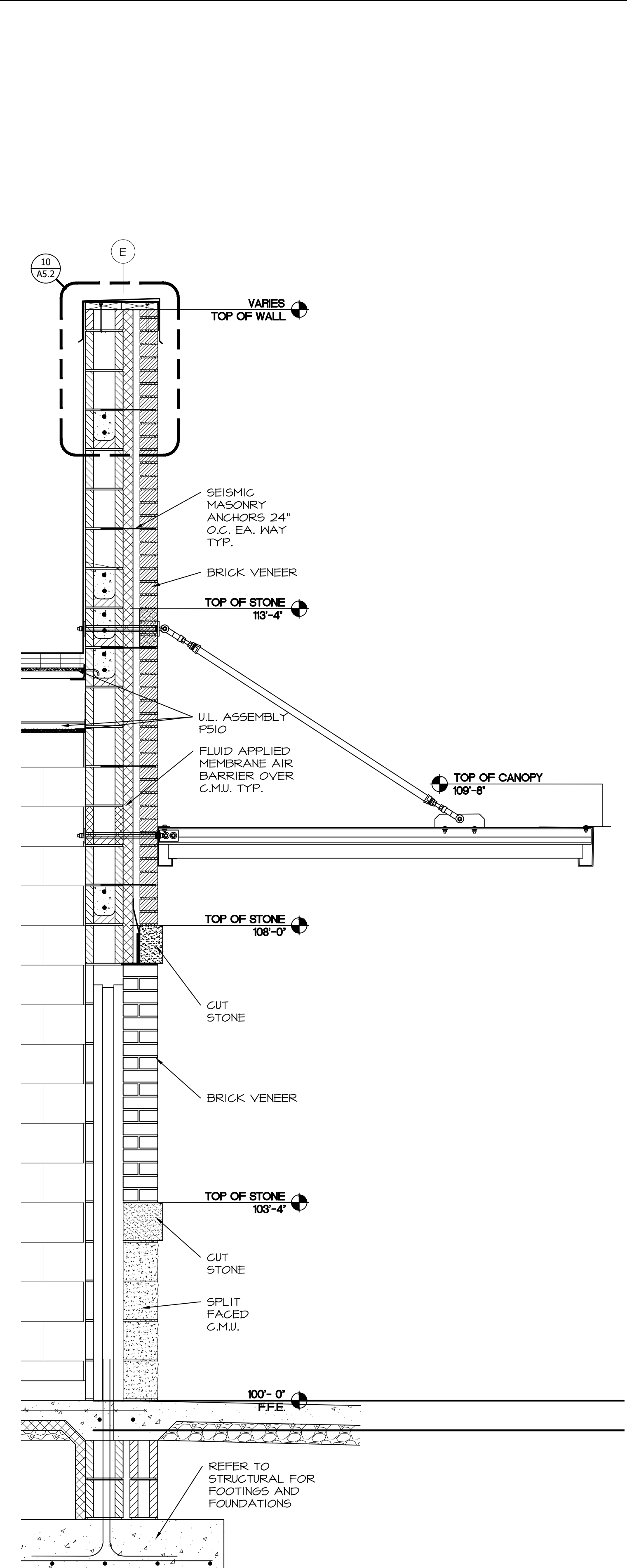
2 WALL SECTION
SCALE: 3/4" = 1'-0"



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



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



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

REVISIONS



BRETT PATRICK DILLE
ARKANSAS ARCHITECT LICENSE NO. 8794

ARCHITECTURAL CORPORATION MISSOURI
LICENSE NO. 2009039493



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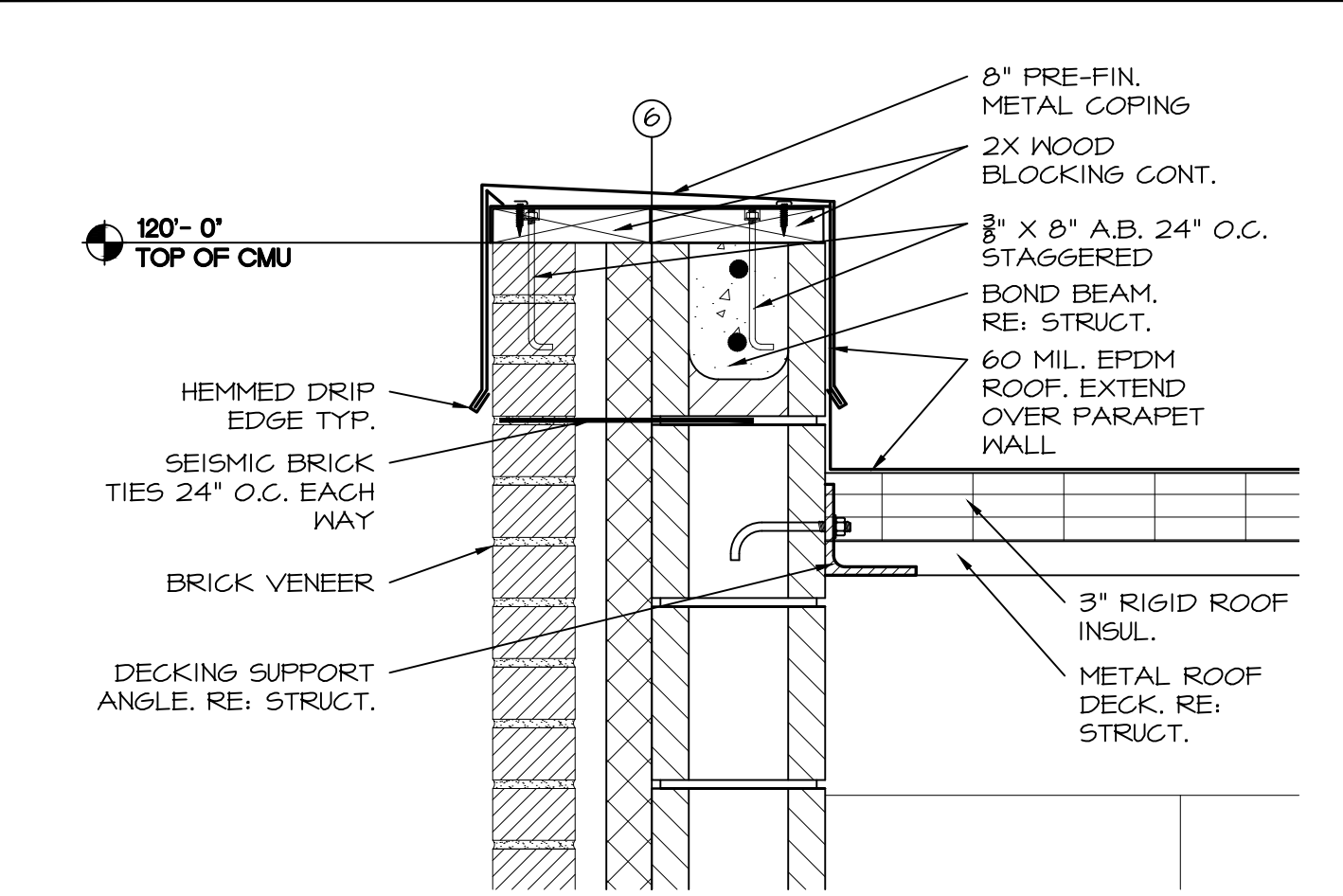
NEW ELEMENTARY SCHOOL
MAYNARD SCHOOL DISTRICT
 MAYNARD, ARKANSAS 72444

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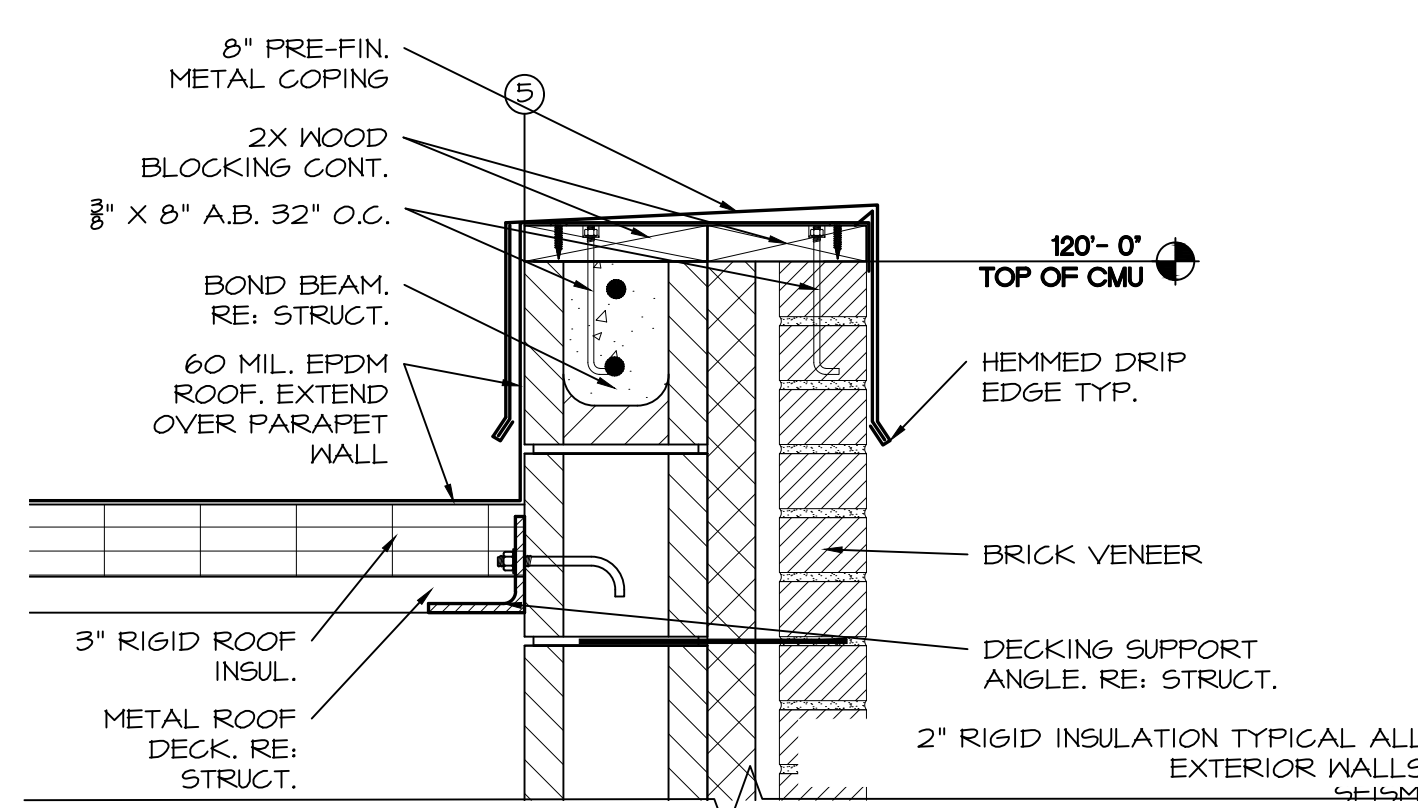
DATE: 10-27-2016
SHEET TITLE: WALL SECTIONS
JOB NO: 1419
SHEET

A5.1



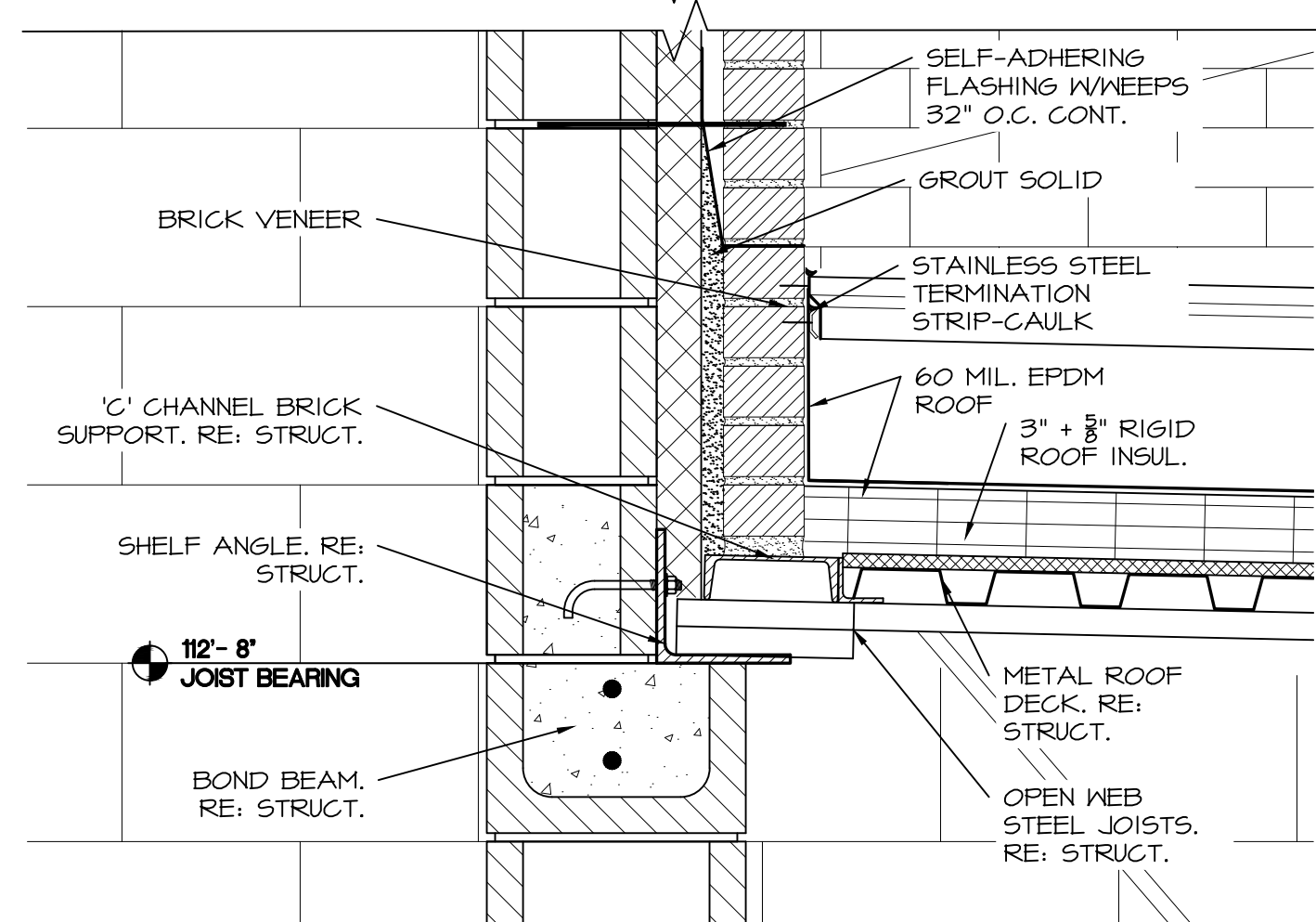
1 WALL DETAIL

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



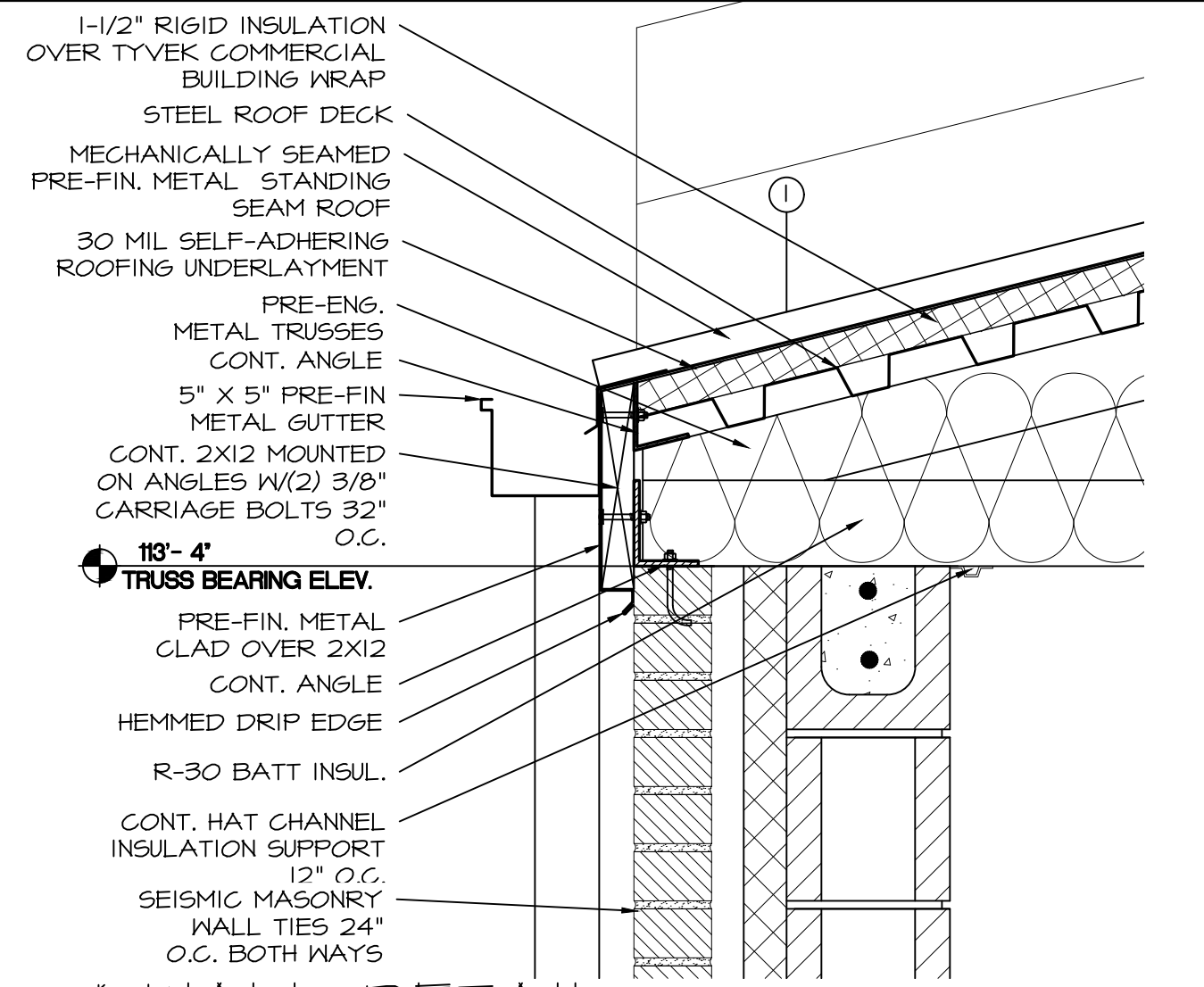
2 WALL DETAIL

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



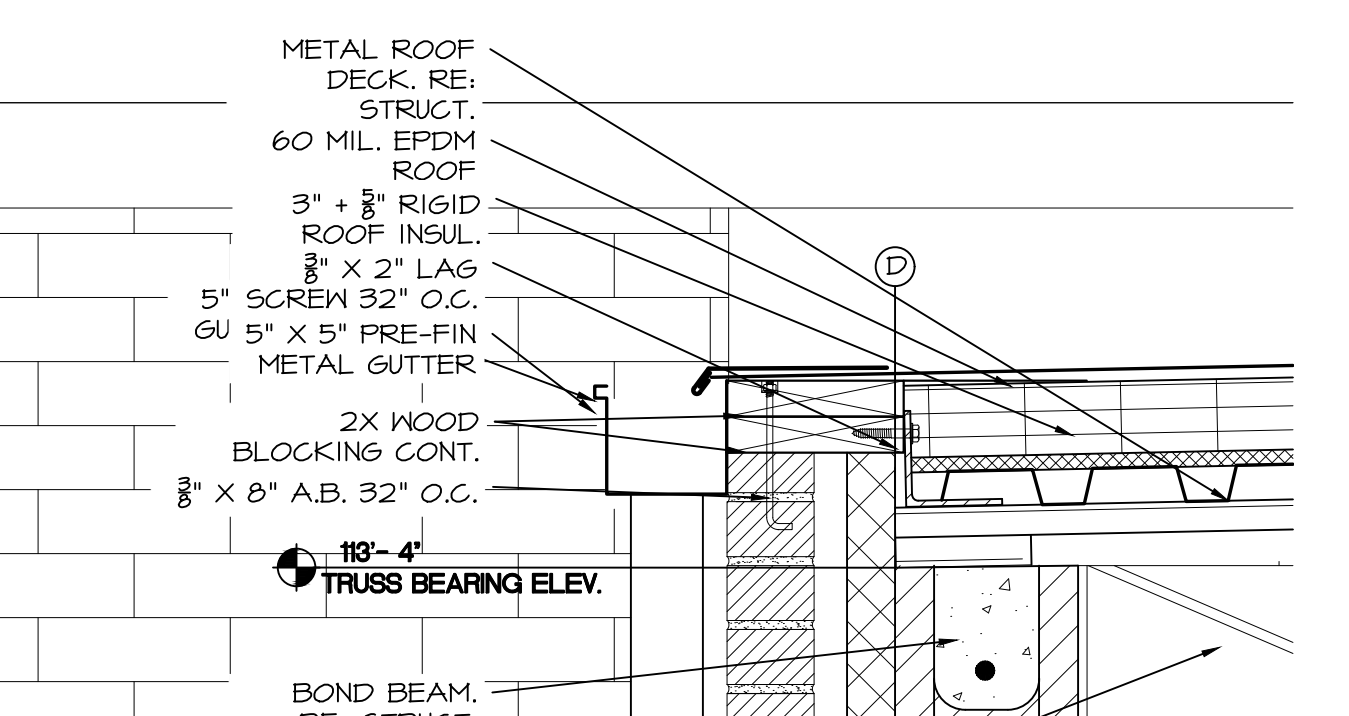
3 WALL DETAIL

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



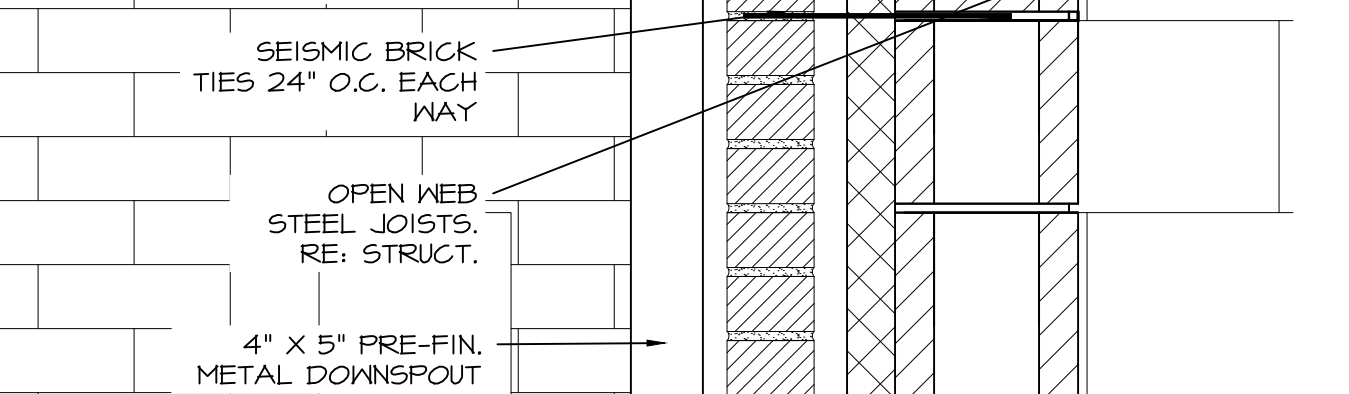
4 WALL DETAIL

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



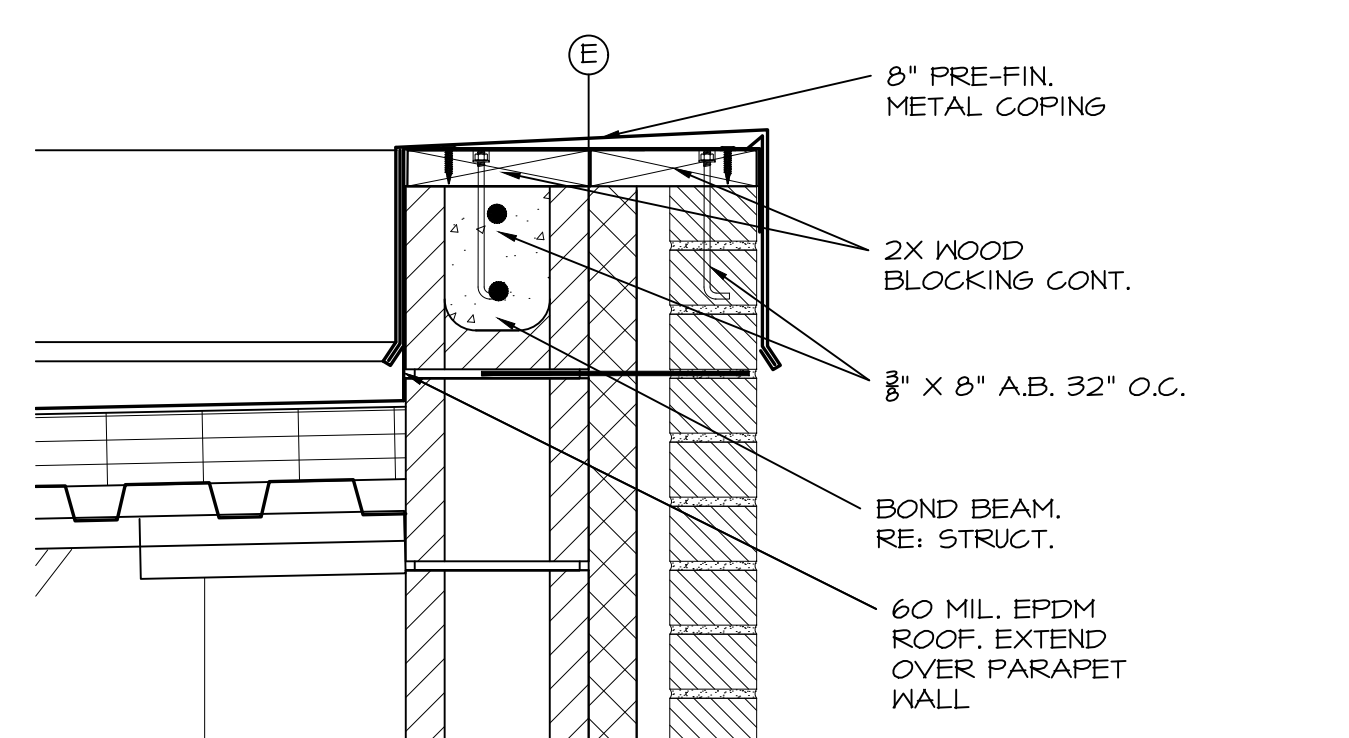
5 WALL DETAIL

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



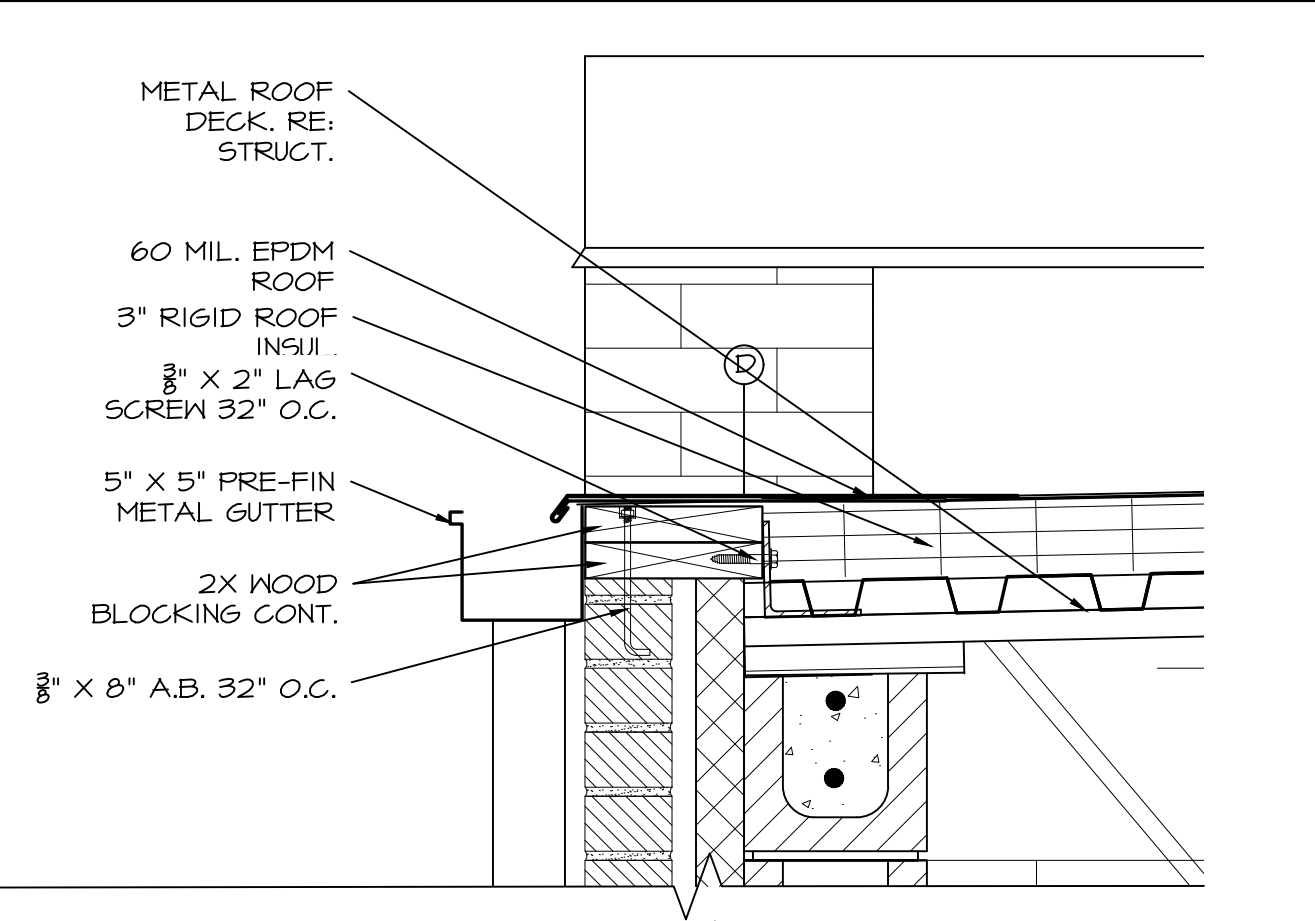
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SCALE: 1-1/2" = 1'-0"



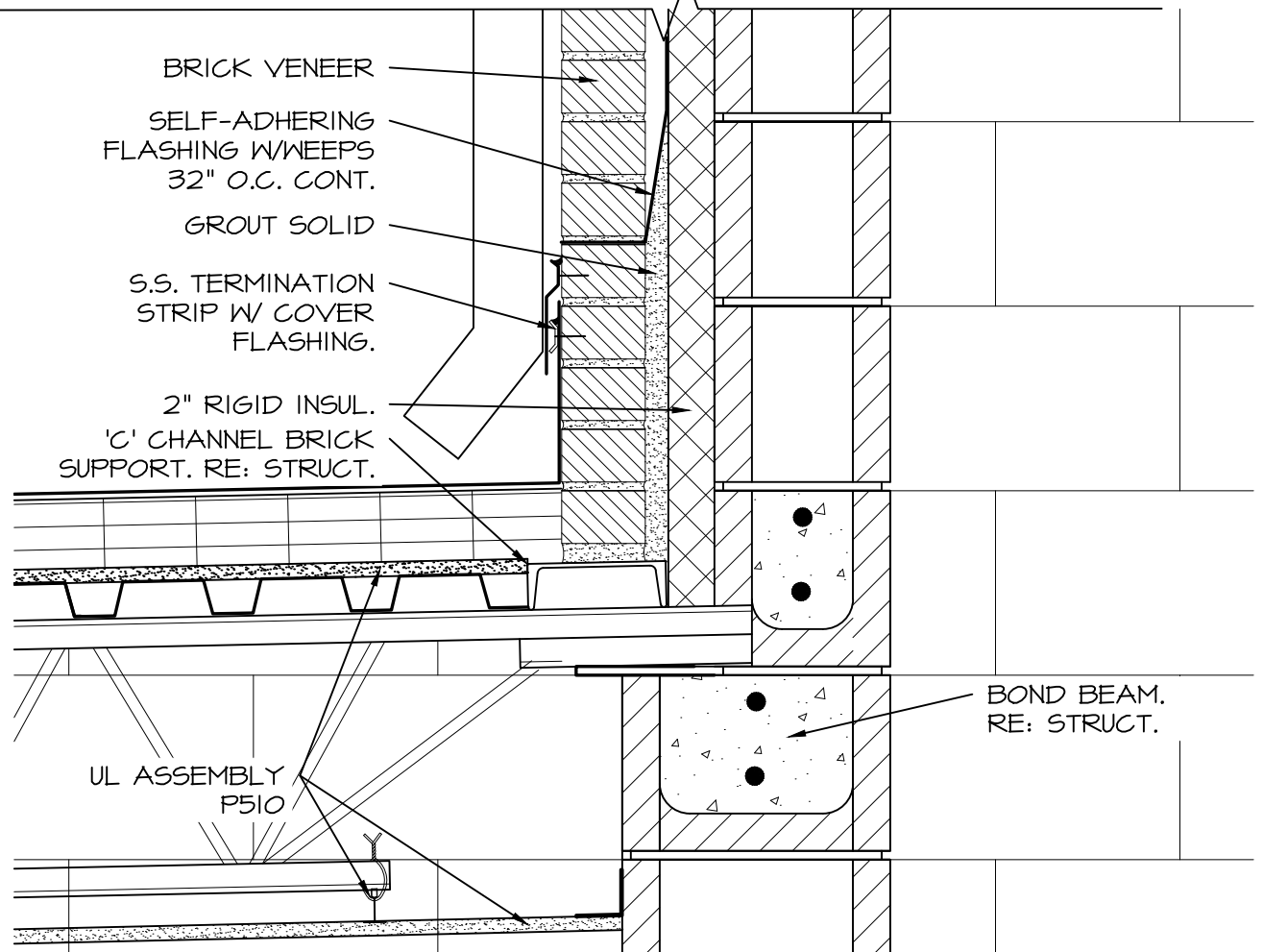
7 WALL DETAIL

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



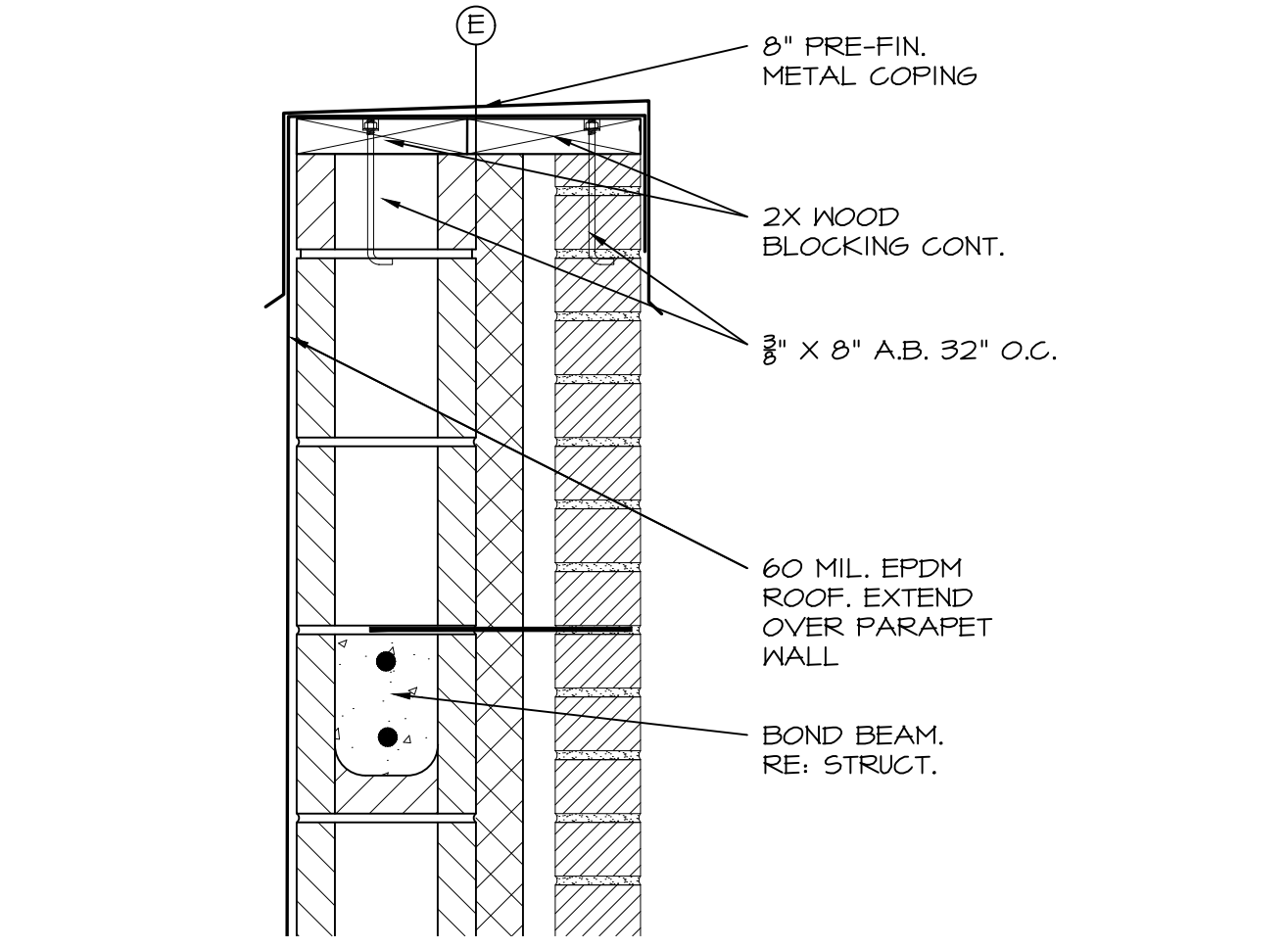
8 WALL DETAIL

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



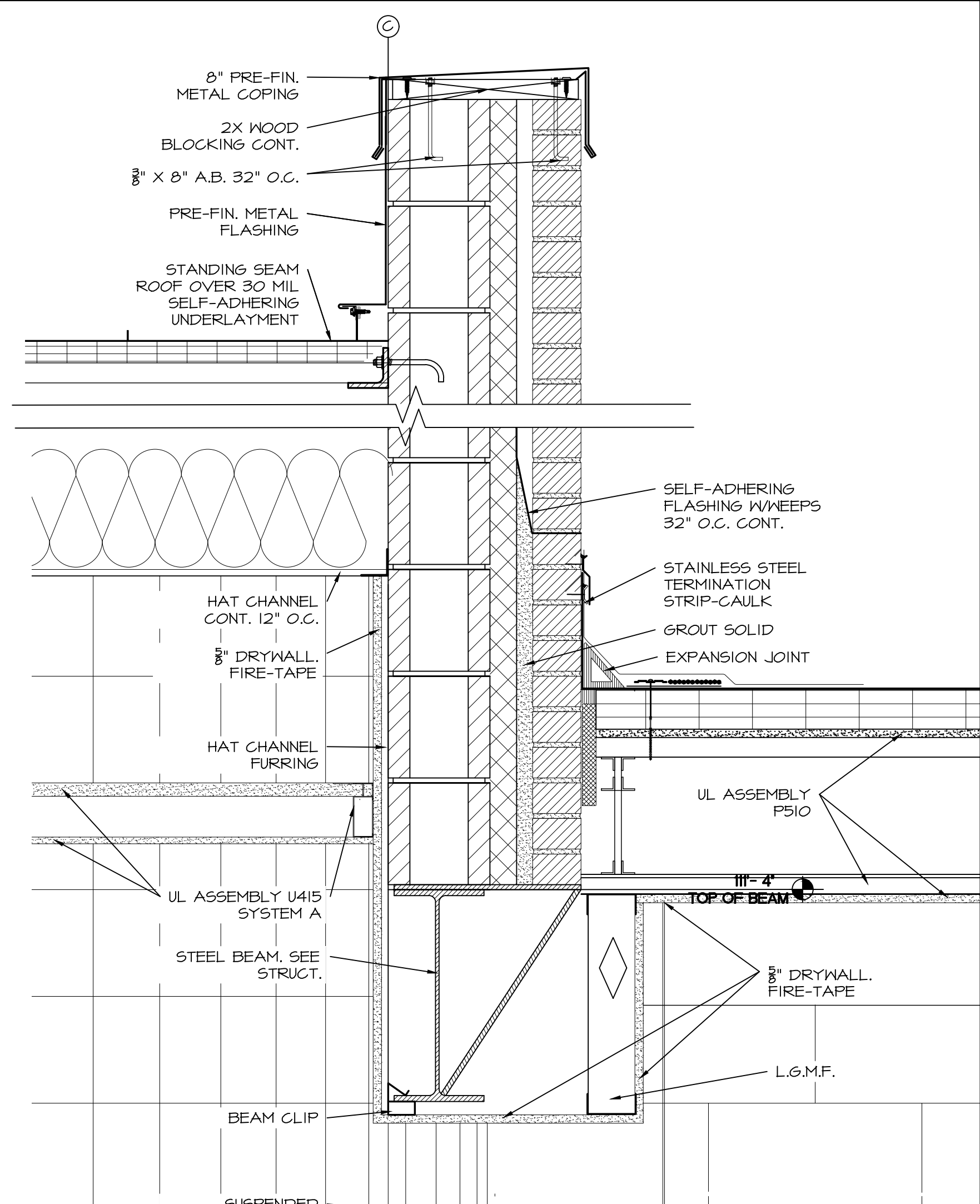
9 WALL DETAIL

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



10 WALL DETAIL

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



TYP. ROOF EDGE DETAIL

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

REVISIONS

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Arkansas Architect License No. 63901

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NEW ELEMENTARY SCHOOL

MAYNARD SCHOOL DISTRICT

MAYNARD, ARKANSAS 72444

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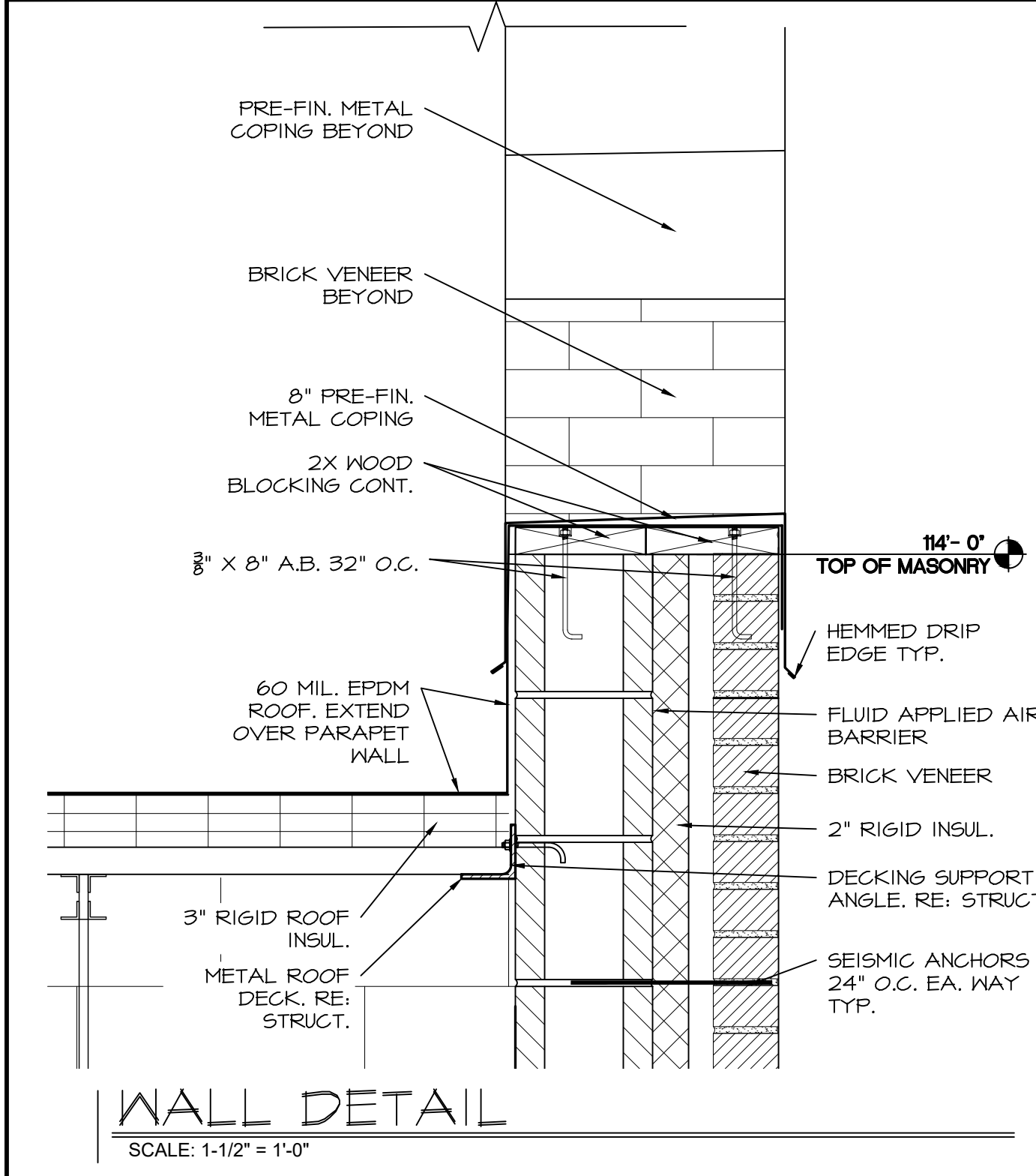
DATE: 10-27-2016

SHEET TITLE: WALL DETAILS

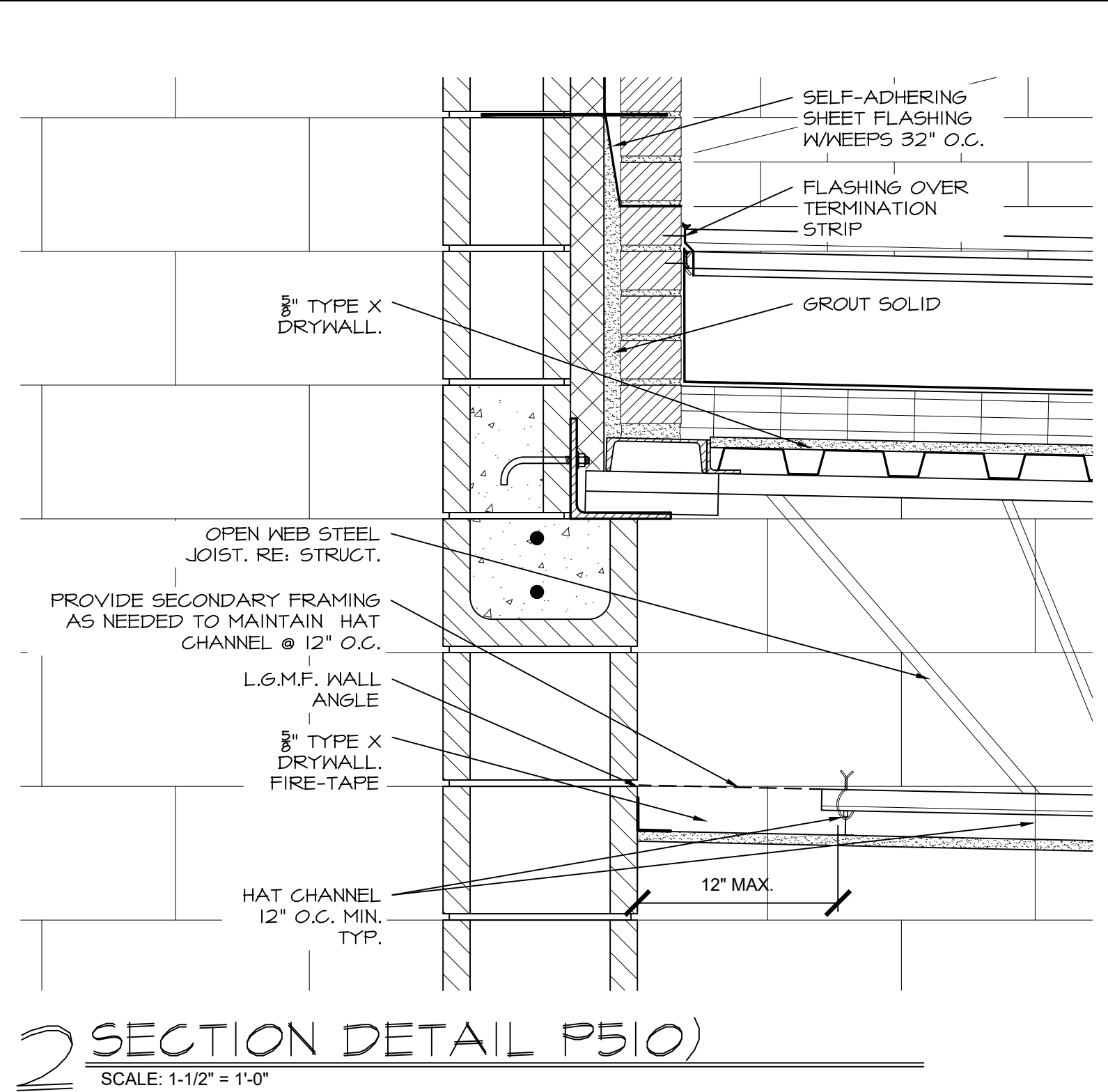
JOB NO: 1419

SHEET: A5.2

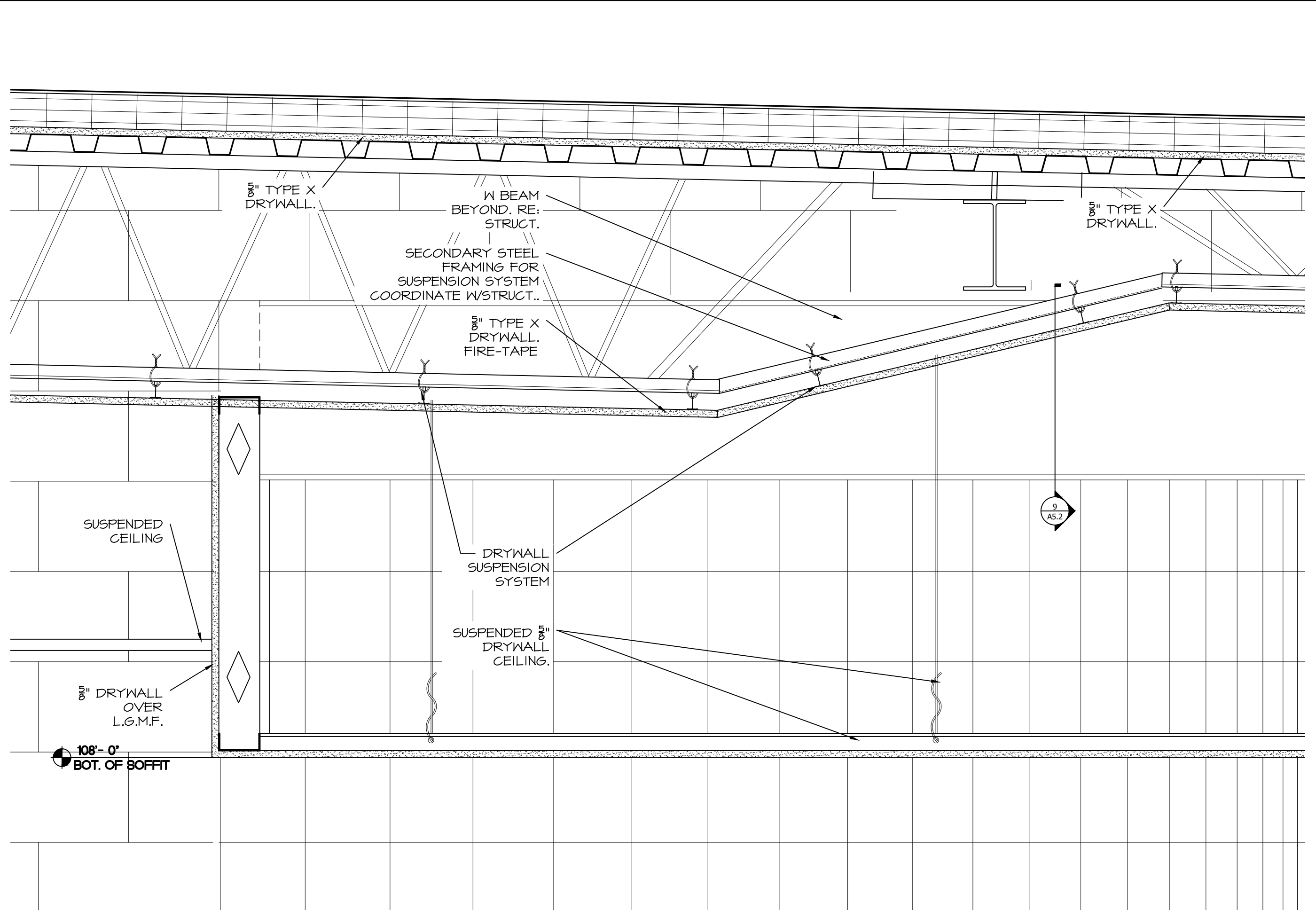
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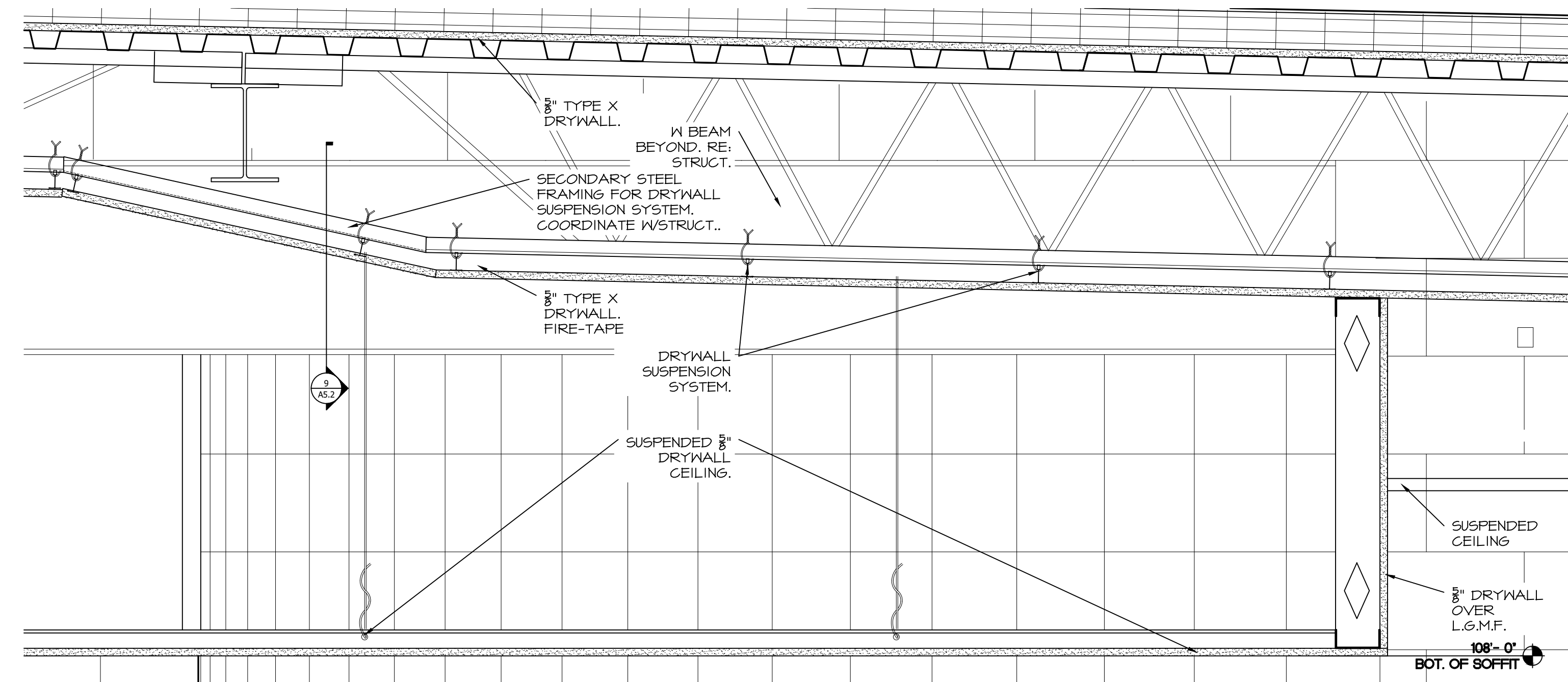
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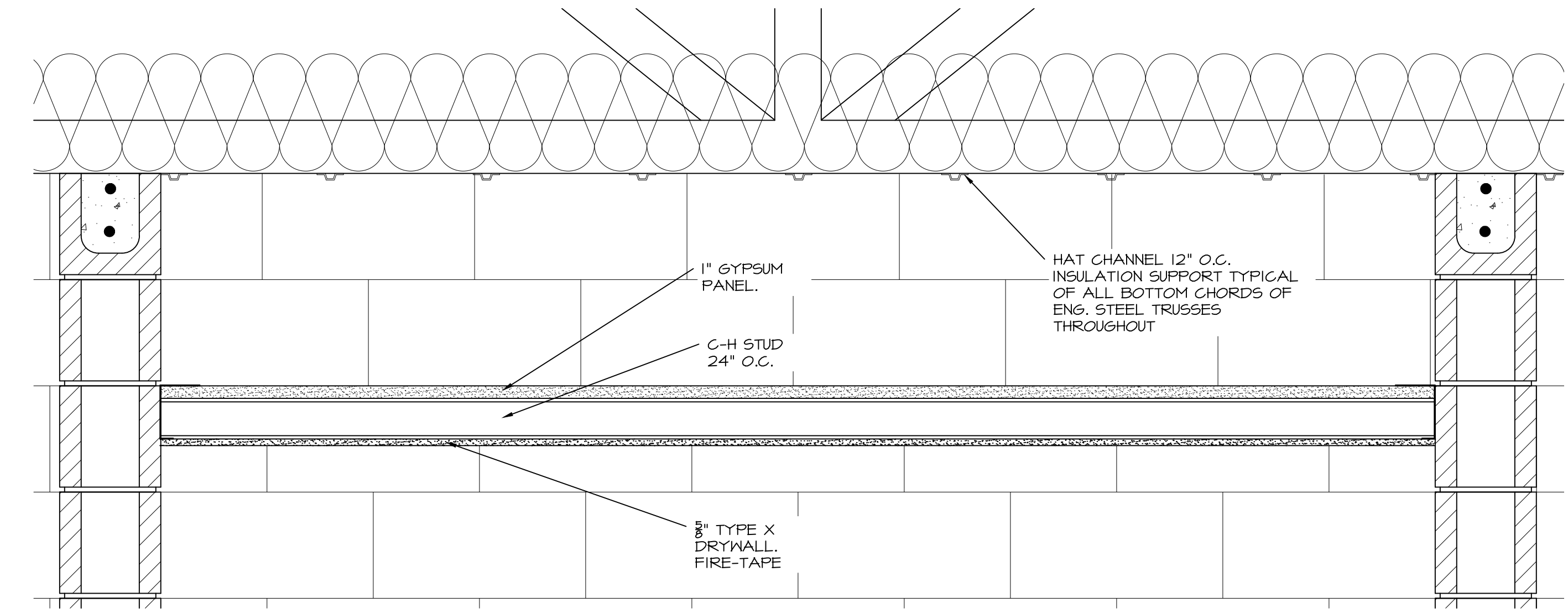
2 SECTION DETAIL P510
SCALE: 1-1/2" = 1'-0"



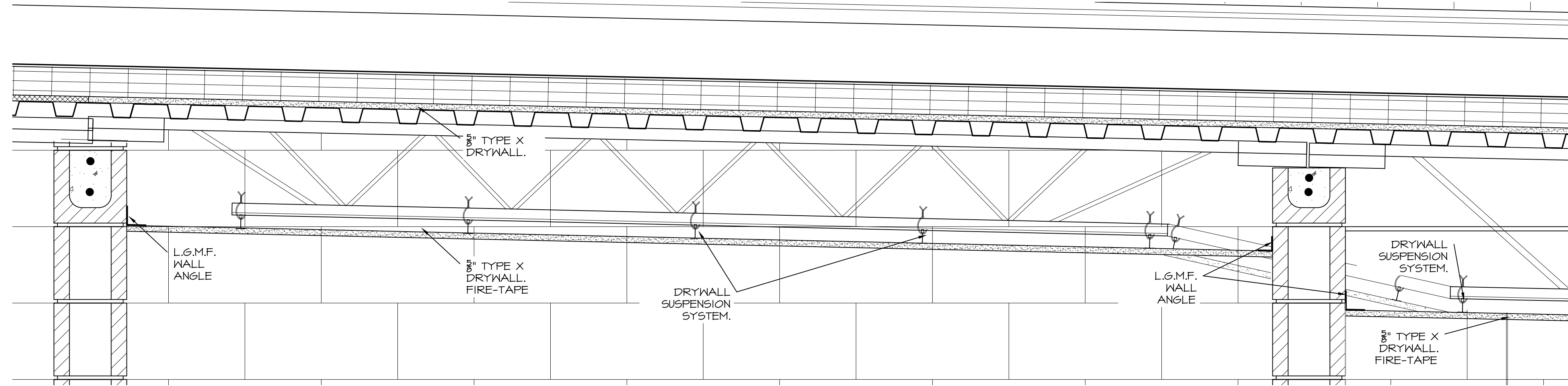
3 SECTION DETAIL (U.L. P510)
SCALE: 1-1/2" = 1'-0"



4 SECTION DETAIL (U.L. P510)
SCALE: 1-1/2" = 1'-0"



5 SECTION DETAIL (UL U415 SYSTEM A)
SCALE: 1-1/2" = 1'-0"



6 SECTION DETAIL (U.L. P510)
SCALE: 1-1/2" = 1'-0"

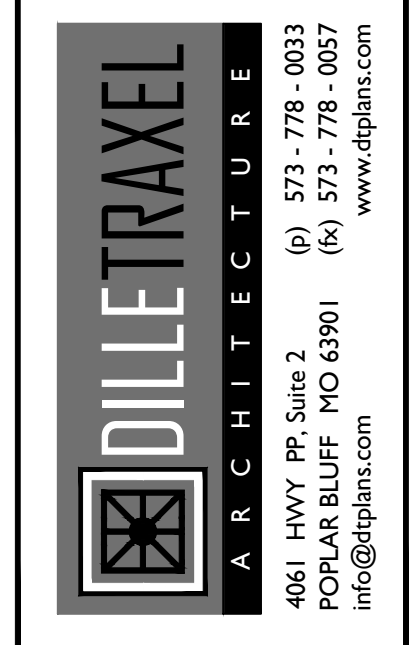
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REVISIONS	
1	11-18-2016 CLARIFIED U.L. ASSEMBLIES
2	11-21-2016 PER FIRE MARSHALL



BRETT PATRICK DILLE
ARKANSAS ARCHITECT LICENSE NO. 8794

ARCHITECTURAL CORPORATION MISSOURI
LICENSE NO. 200903493



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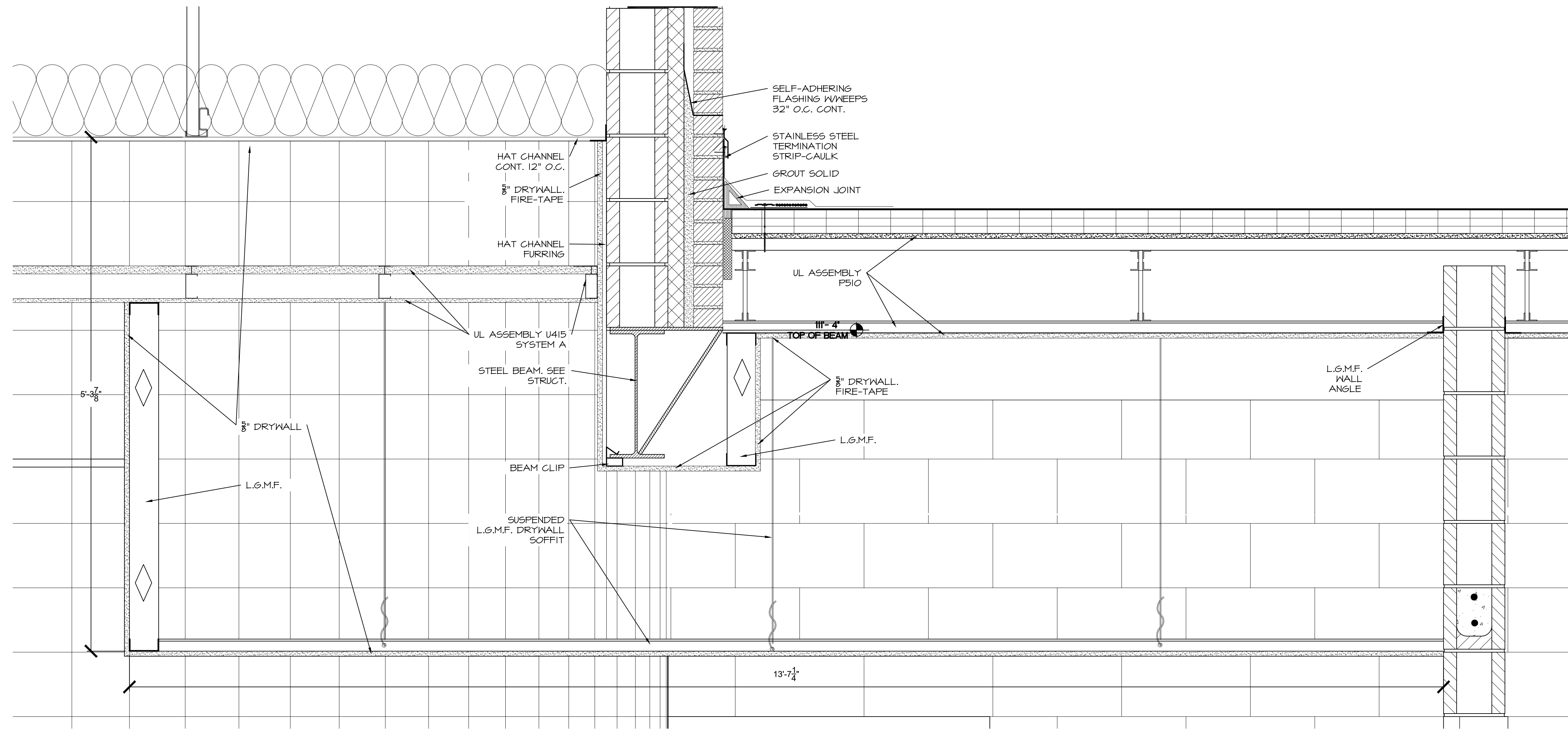
MECH / ELEC ENGINEER:
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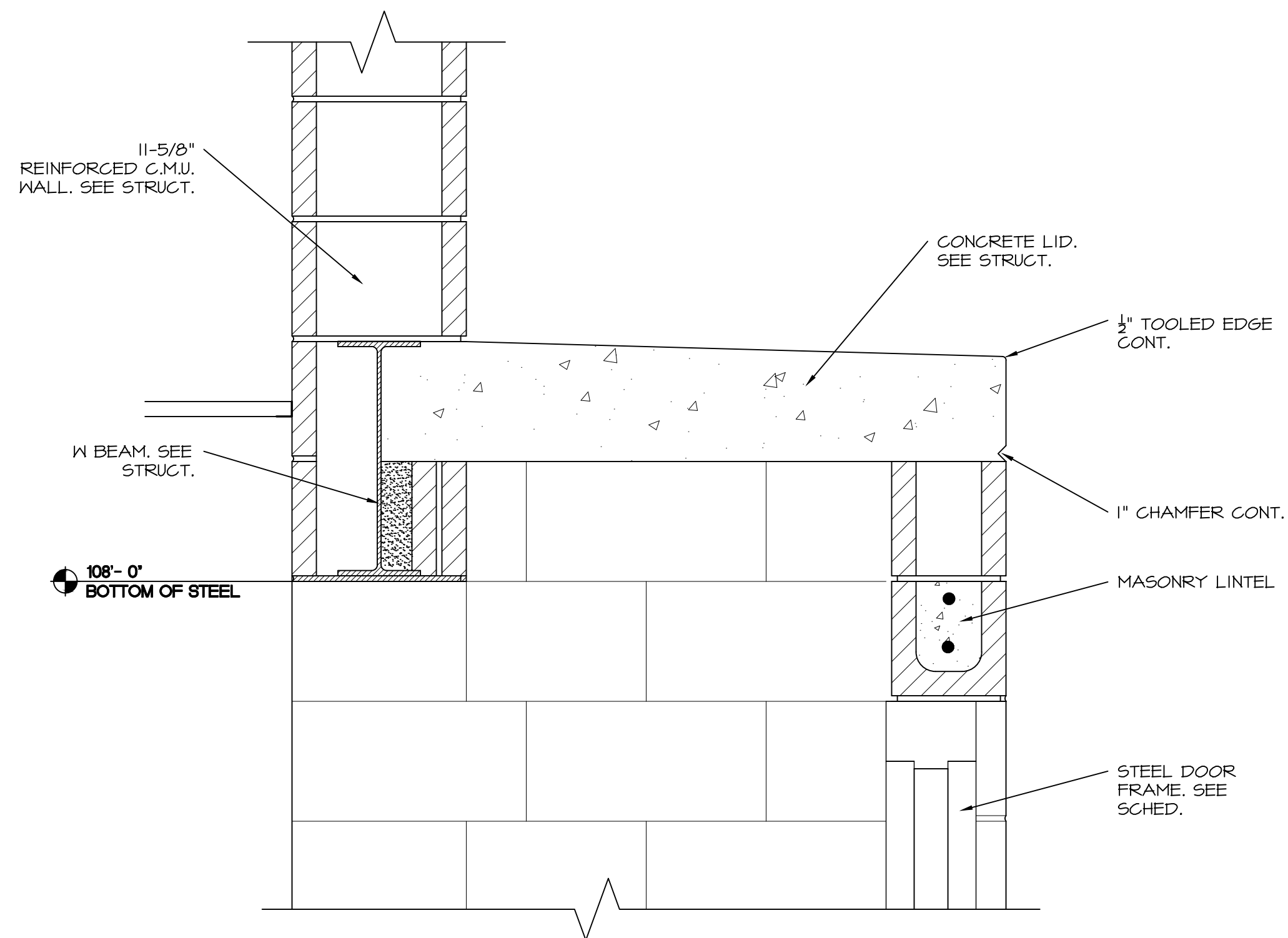
DATE: 10-27-2016
SHEET TITLE: WALL DETAILS
JOB NO: 1419
SHEET

A5.3



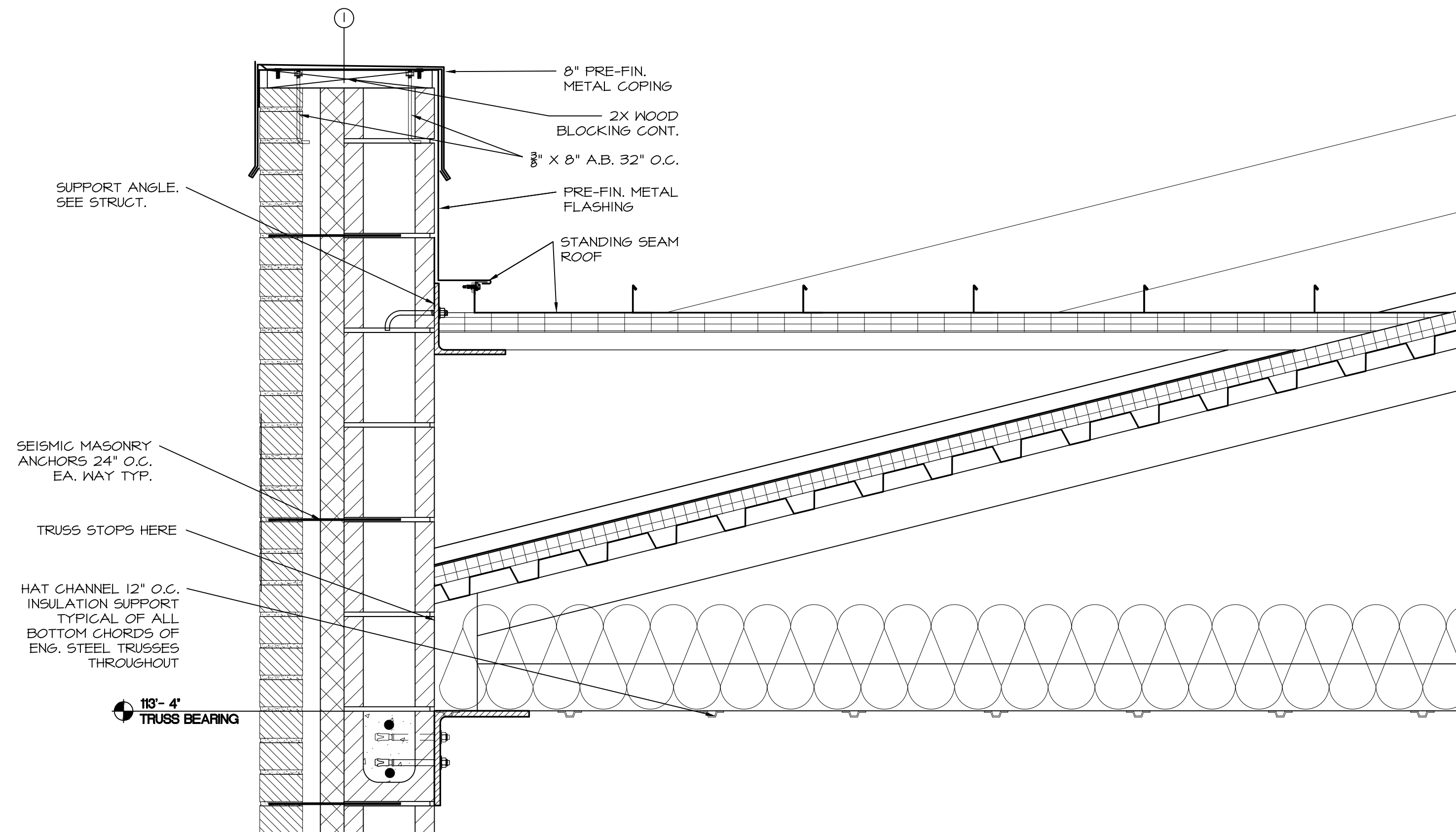
SECTION DETAIL

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



SECTION DETAIL

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



SECTION DETAIL

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

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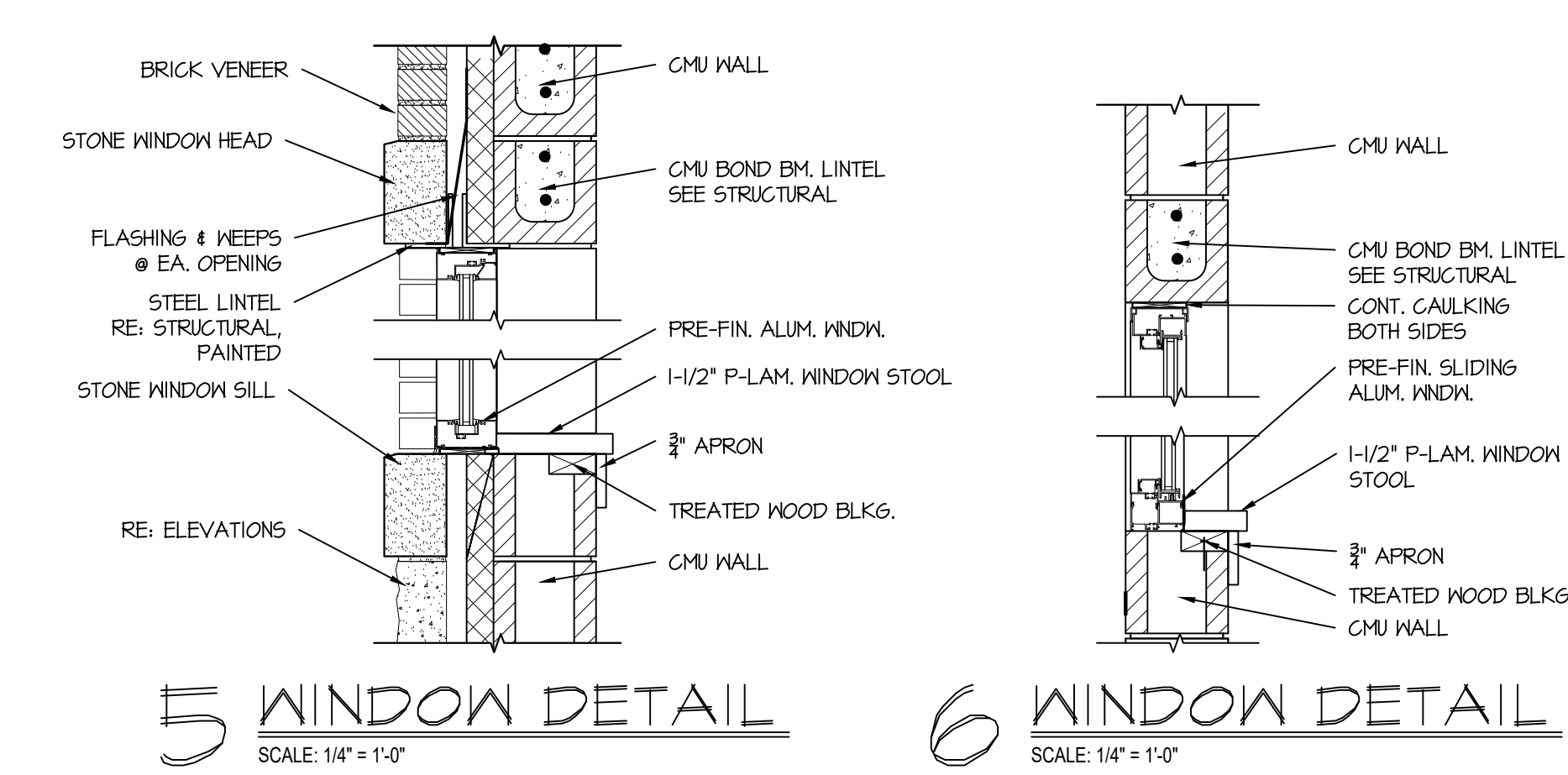
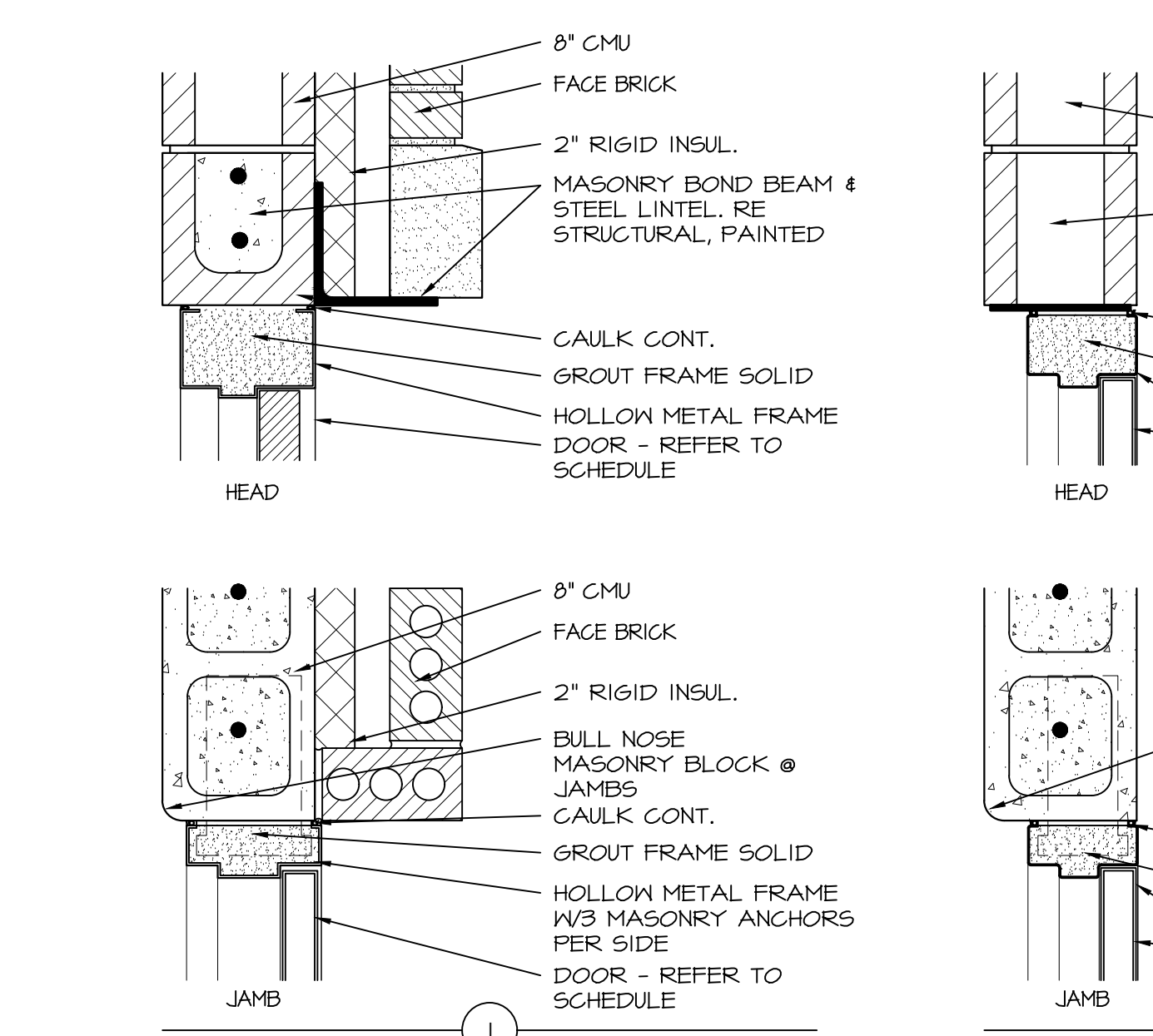
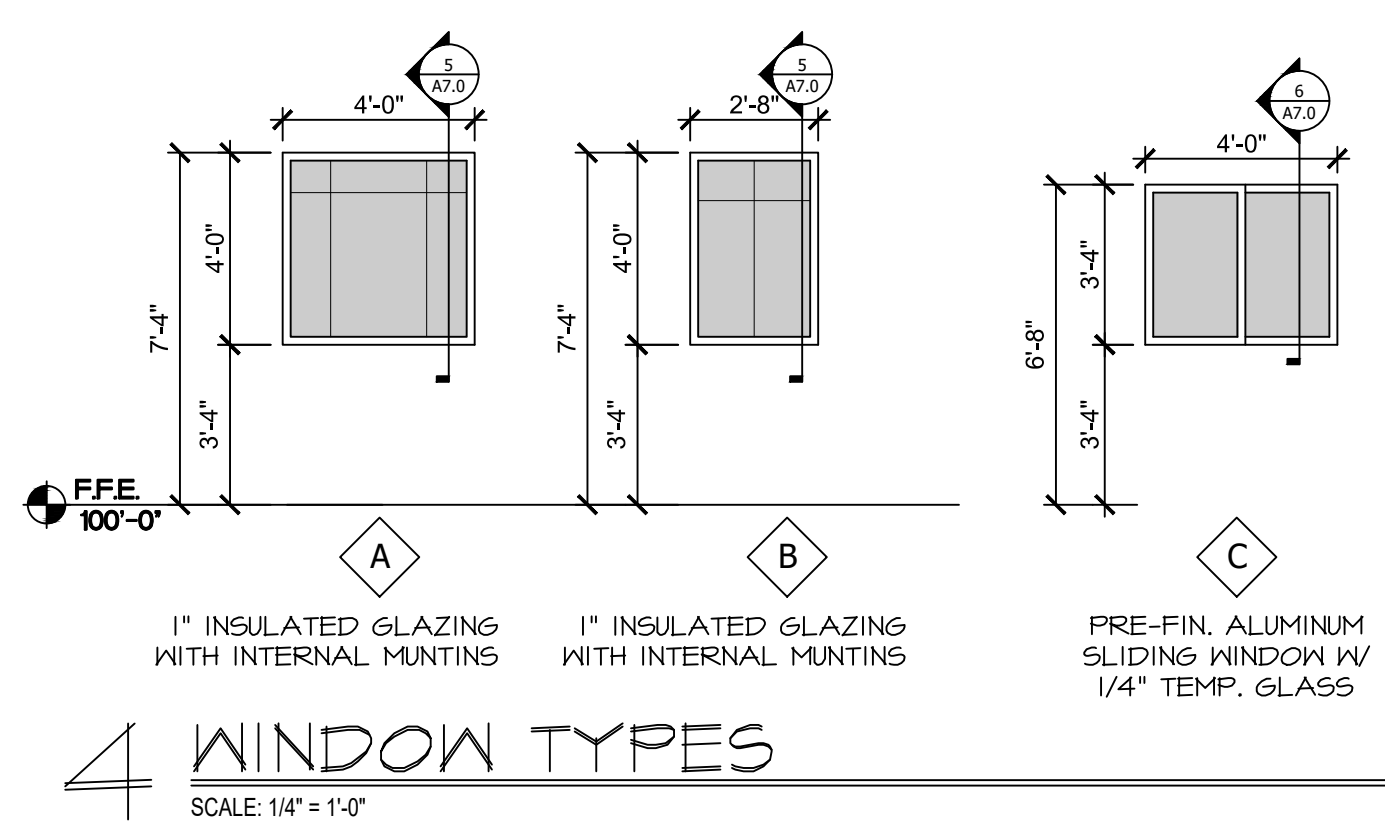
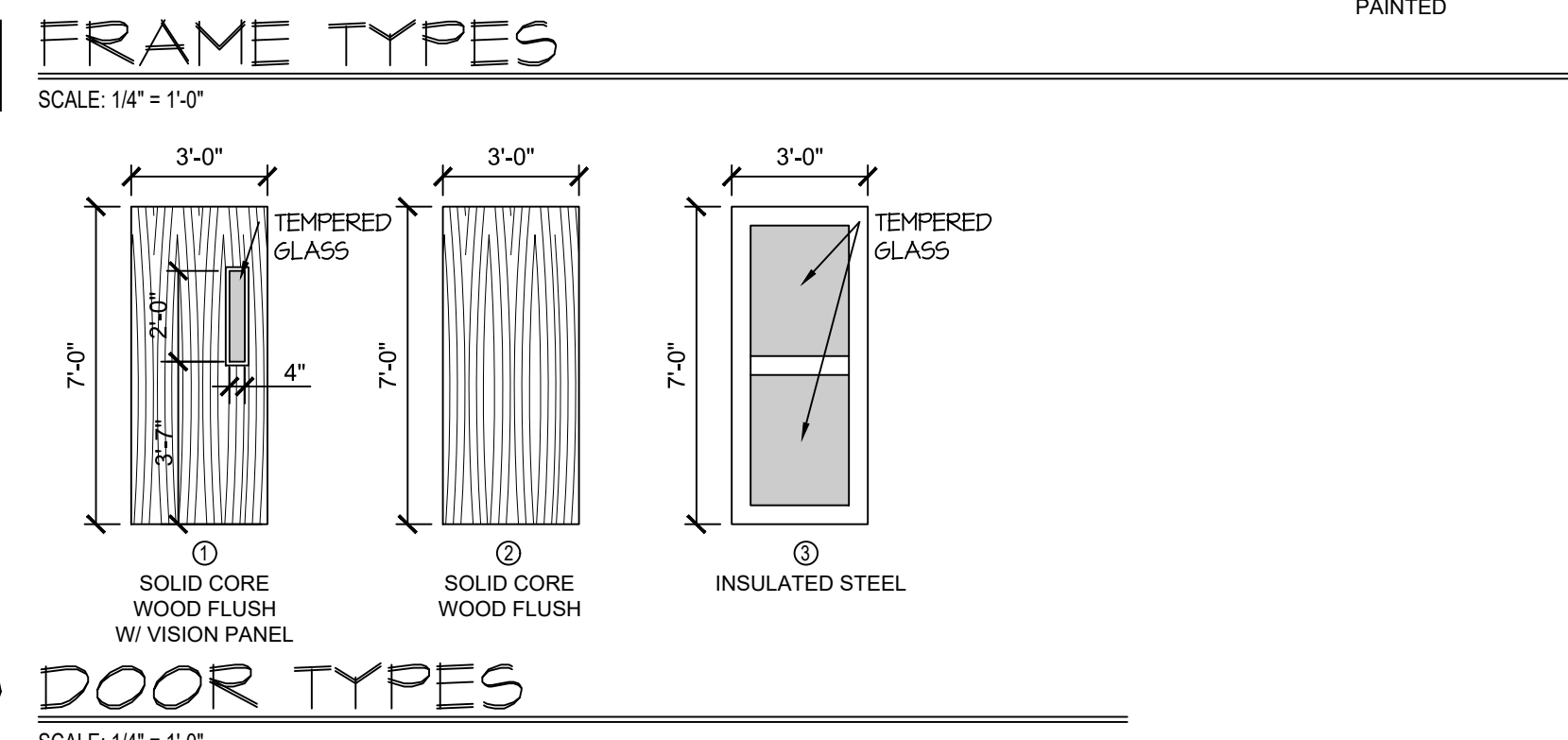
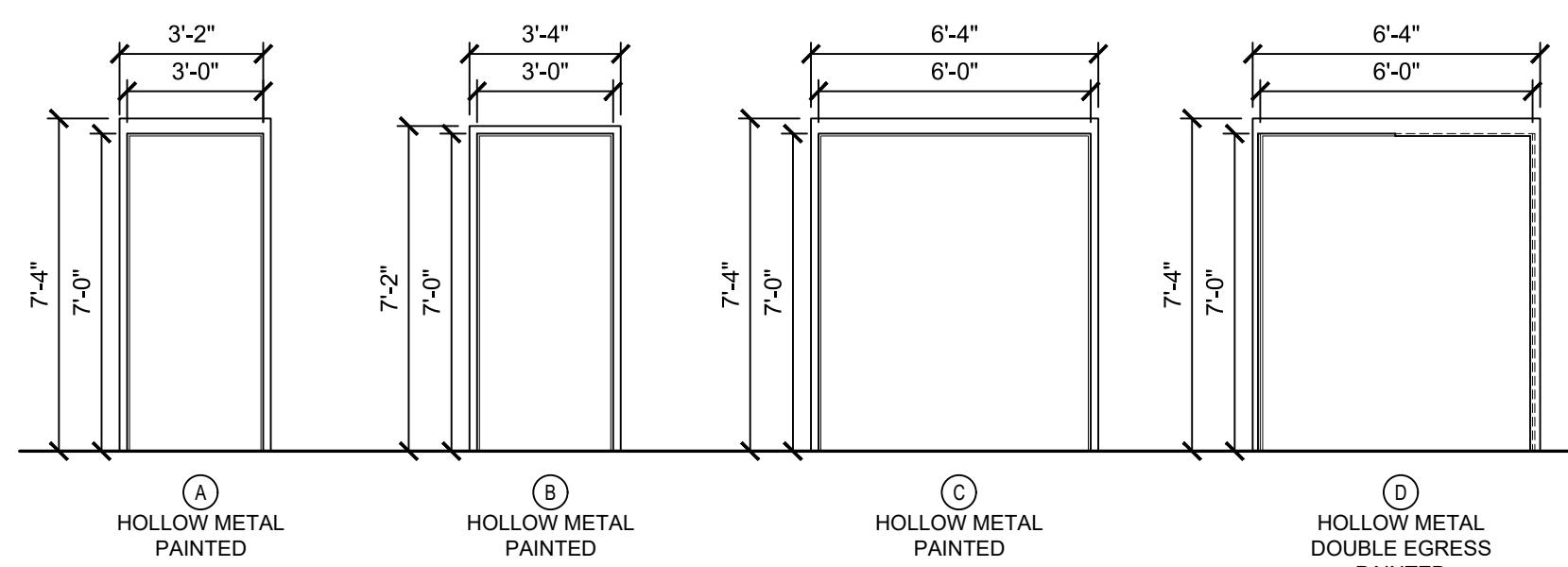
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DATE: 10-27-2016
SHEET TITLE: WALL DETAILS
JOB NO: 1419
SHEET

A5.4

DOOR SCHEDULE													
LOCATION		FRAME					DOOR			HDWR #	NOTES		
NO.	ROOM	FIRE	TYPE	DETAIL	MTRL	FINISH	W.	HT.	TYPE	MTRL	THK.	FIN.	NO.
100-A	CLASSROOM	20 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	I	WOOD	1 3/4"	STAIN	3.0
101-A	CLASSROOM	20 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	I	WOOD	1 3/4"	STAIN	3.0
102-A	CLASSROOM	20 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	I	WOOD	1 3/4"	STAIN	3.0
103-A	CLASSROOM	20 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	I	WOOD	1 3/4"	STAIN	3.0
104-A	CLASSROOM	20 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	I	WOOD	1 3/4"	STAIN	3.0
105-A	CORRIDOR		C	I	HM	PAINT	RR 3'-0"	7'-0"	3	STL	1 3/4"	PAINT	1.0
106-A	CLASSROOM	20 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	I	WOOD	1 3/4"	STAIN	3.0
107-A	READING RM. STORAGE		A	II	HM	PAINT	3'-0"	7'-0"	I	WOOD	1 3/4"	STAIN	3.0
108-A	MECH/ELEC.	20 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	2	WOOD	1 3/4"	STAIN	5.0
109-A	READING ROOM	20 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	1	WOOD	1 3/4"	STAIN	3.0
110-A	COMPUTER LAB	20 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	1	WOOD	1 3/4"	STAIN	3.0
111-A	CUSTODIAN CLOSET	20 MIN.	F	II	HM	PAINT	3'-0"	7'-0"	2	WOOD	1 3/4"	STAIN	5.0
114-A	ENTRY LOBBY		C	II	HM	PAINT	RR 3'-0"	7'-0"	1	WOOD	1 3/4"	STAIN	4.0
114-B	ENTRY LOBBY		C	I	HM	PAINT	RR 3'-0"	7'-0"	3	STL	1 3/4"	PAINT	1.0
115-A	RECEPTION	20 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	1	WOOD	1 3/4"	STAIN	3.0
117-A	TOILET	20 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	2	WOOD	1 3/4"	STAIN	2.0
118-A	TOILET		B	III	HM	PAINT	3'-0"	7'-0"	2	WOOD	1 3/4"	STAIN	2.0
119-A	CORRIDOR	90 MIN.	C	II	HM	PAINT	RR 3'-0"	7'-0"	2	WOOD	1 3/4"	STAIN	8.0
120-A	MULTI-P STORAGE	90 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	2	WOOD	1 3/4"	STAIN	5.0
121-A	MAIL/WORK/COPY		B	III	HM	PAINT	3'-0"	7'-0"	2	WOOD	1 3/4"	STAIN	1.0
122-A	PRINCIPAL		B	III	HM	PAINT	3'-0"	7'-0"	1	WOOD	1 3/4"	STAIN	1.0
123-A	FINE ARTS STORAGE		C	II	HM	PAINT	RR 3'-0"	7'-0"	2	WOOD	1 3/4"	STAIN	4.0
124-A	MULTI-PURPOSE	20 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	1	WOOD	1 3/4"	STAIN	6.0
124-B	MULTI-PURPOSE	20 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	1	WOOD	1 3/4"	STAIN	6.0
125-A	FINE ARTS ROOM	20 MIN.	A	II	HM	PAINT	3'-0"	7'-0"	1	WOOD	1 3/4"	STAIN	6.0
126-A	CORRIDOR		D	I	HM	PAINT	RR 3'-0"	7'-0"	3	STL	1 3/4"	PAINT	1.0

ROOM FINISH SCHEDULE											
ROOM		FLOOR	BASE	WALL	CEILING						
NO.	NAME	CASSETTE TILE TYPE OVER CONCRETE SEALER CONCRETE RESINOUS FLOORING & BASE	4" VINYL BASE RESINOUS BASE	DRYWALL - PAINT LATEX CMU FILL/PAINT CMU FILL/PAINT EPOXY	DRYWALL - PAINT ACOUSTICAL 2 X 4 LAY-IN OPEN TO DECK	CLG. HT.					
100	CLASSROOM	●	●	●	●	10'-0"					
101	CLASSROOM	●	●	●	●	10'-0"					
102	CLASSROOM	●	●	●	●	10'-0"					
103	CLASSROOM	●	●	●	●	10'-0"					
104	CLASSROOM	●	●	●	●	10'-0"					
105	CORRIDOR	●	●	●	●	10'-0"					
106	CLASSROOM	●	●	●	●	10'-0"					
107	READING RM. STORAGE	●	●	●	●	10'-0"					
108	MECH/ELEC.	●	●	●	●	OPEN					
109	READING ROOM	●	●	●	●	10'-0"					
110	COMPUTER LAB	●	●	●	●	10'-0"					
111	CUSTODIAN CLOSET	●	●	●	●	9'-0"					
112	WOMENS	●	●	●	●	8'-0"					
113	MENS	●	●	●	●	8'-0"					
114	ENTRY LOBBY	●	●	●	●	8'-0"					
115	RECEPTION	●	●	●	●	9'-0"					
116	SECRETARIAL	●	●	●	●	9'-0"					
117	TOILET	●	●	●	●	8'-0"					
118	TOILET	●	●	●	●	8'-0"					
119	CORRIDOR	●	●	●	●	8'-8"					
120	MULTI P. STORAGE	●	●	●	●	9'-0"					
121	MAIL/WORK/COPY	●	●	●	●	9'-0"					
122	PRINCIPAL	●	●	●	●	9'-0"					
123	F. ARTS STORAGE	●	●	●	●	9'-0"					
124	MULTI-PURPOSE	●	●	●	●	OPEN					
125	FINE ARTS ROOM	●	●	●	●	9'-0"					
126	CORRIDOR	●	●	●	●	9'-0"					



REVISIONS

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REGISTERED ARCHITECT
Arkansas
BRETT PATRICK DILLE
ARKANSAS ARCHITECT LICENSE NO. 8794

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(F) 573-727-9648

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(P) 417-888-0645

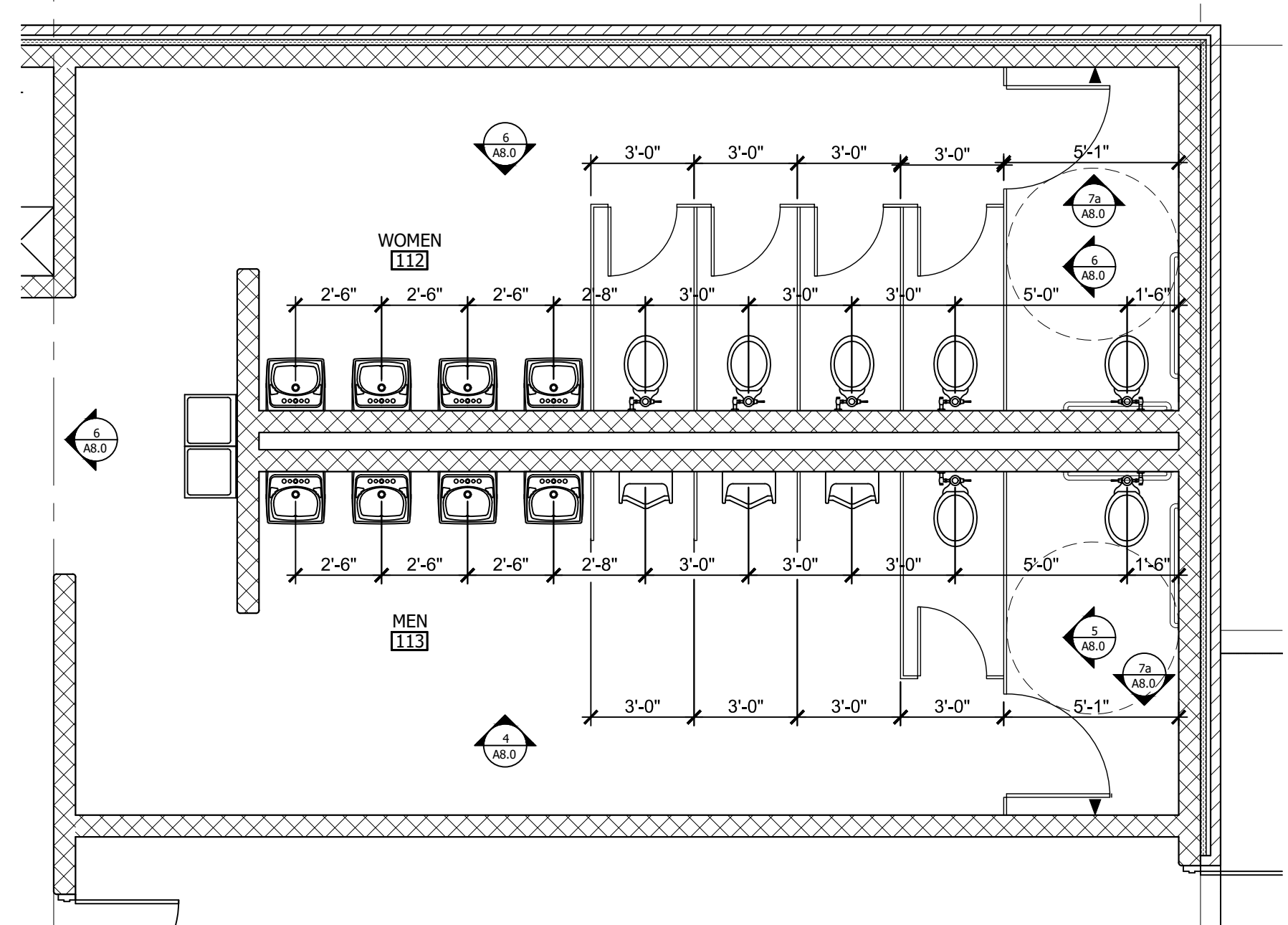
MECH / ELEC ENGINEER:
STRICKLAND ENGINEERING
113 W. MAIN STREET, STE 1
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(P) 573-243-6986
(F) 573-243-2191

**NEW ELEMENTARY SCHOOL
MAYNARD SCHOOL DISTRICT
MAYNARD, ARKANSAS 72444**

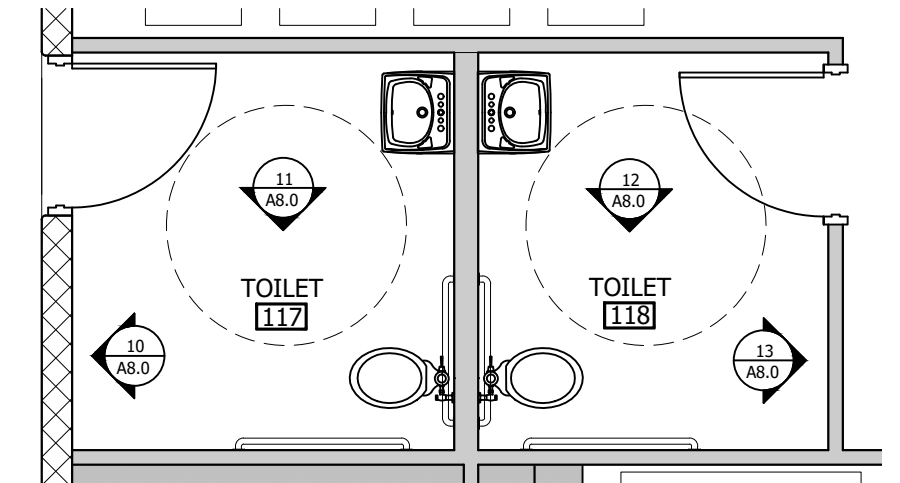
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DATE: 10-27-2016
SHEET TITLE: SCHEDULES
JOB NO.: 1419
SHEET: A7.0

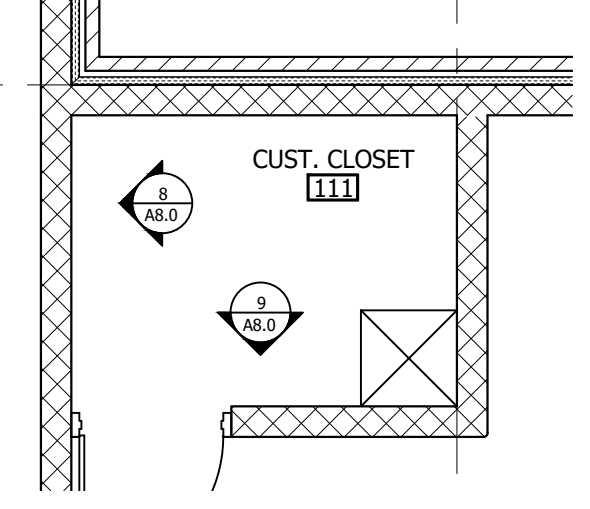
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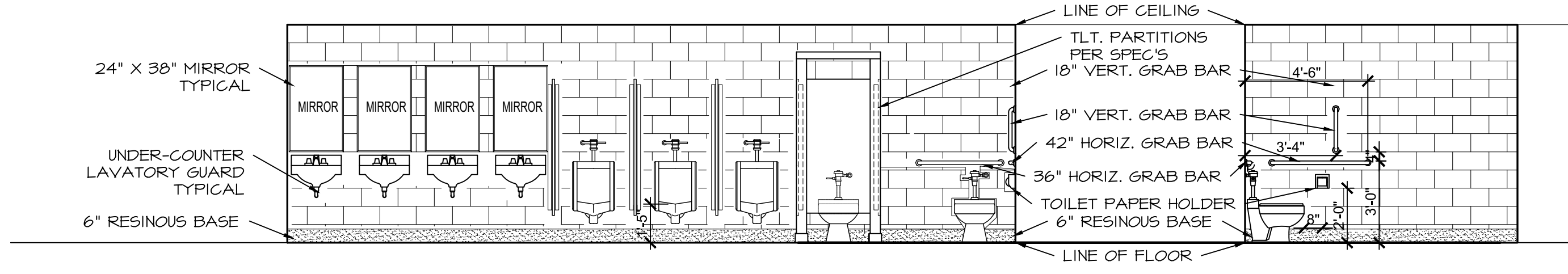
ENLARGED PLAN
SCALE: 1/4" = 1'-0"



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

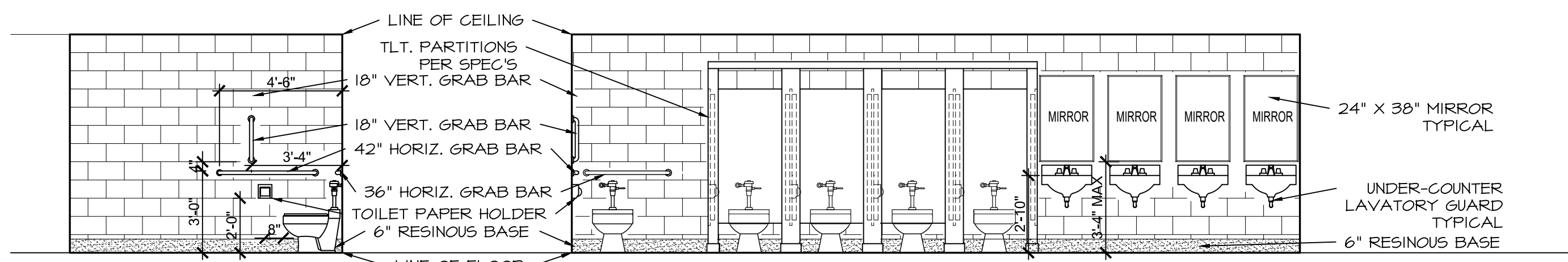


3 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



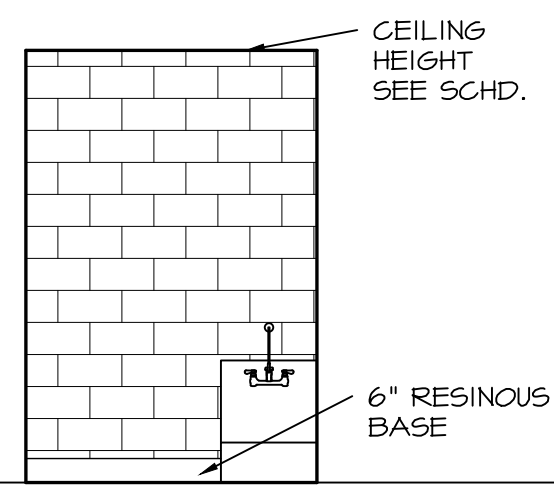
4 INTERIOR ELEVATION RM. 113
SCALE: 1/4" = 1'-0"

5 INT. ELEV. RM. 113
SCALE: 1/4" = 1'-0"

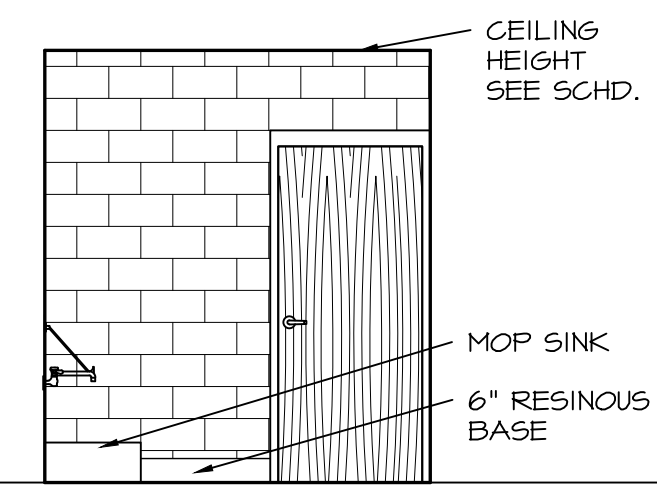


6 INT. ELEV. RM. 112
SCALE: 1/4" = 1'-0"

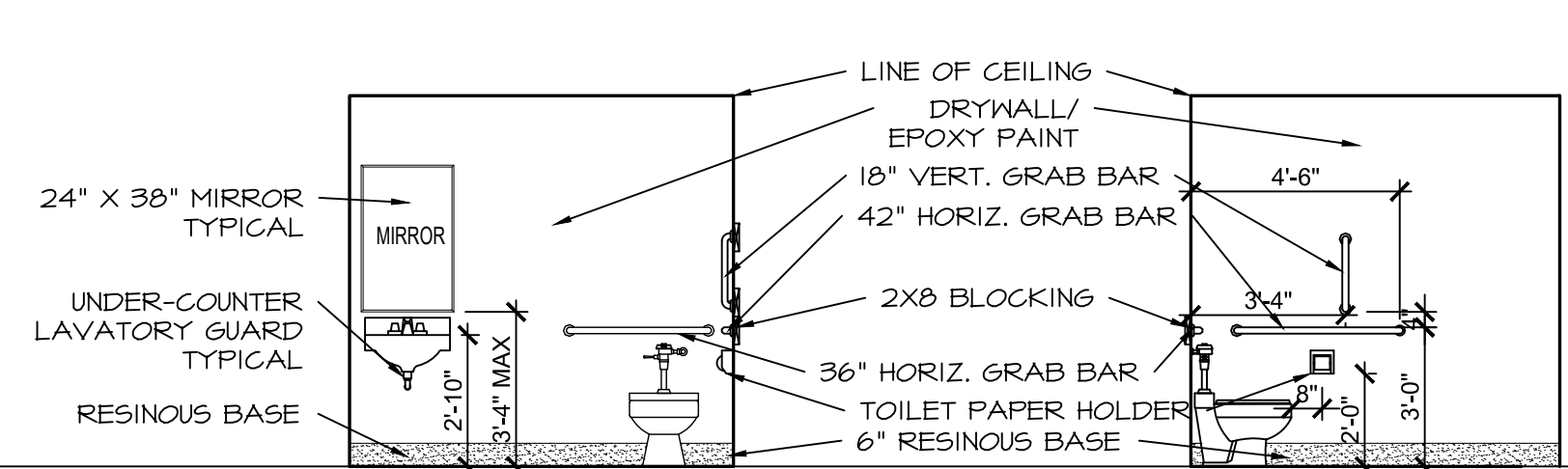
7 INTERIOR ELEVATION RM. 112
SCALE: 1/4" = 1'-0"



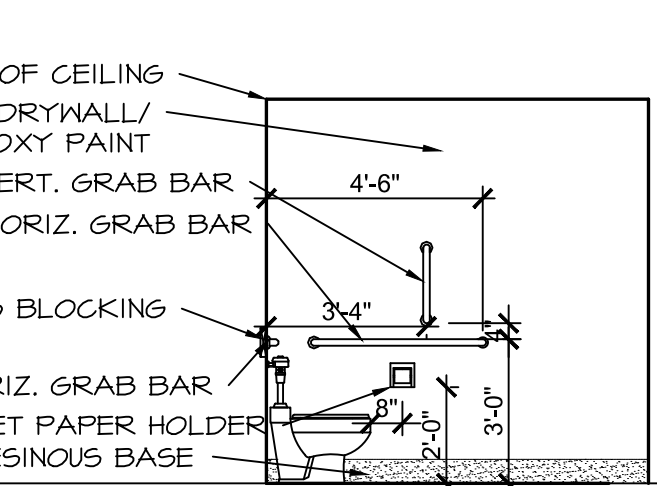
8 INT. ELEV. RM. 111
SCALE: 1/4" = 1'-0"



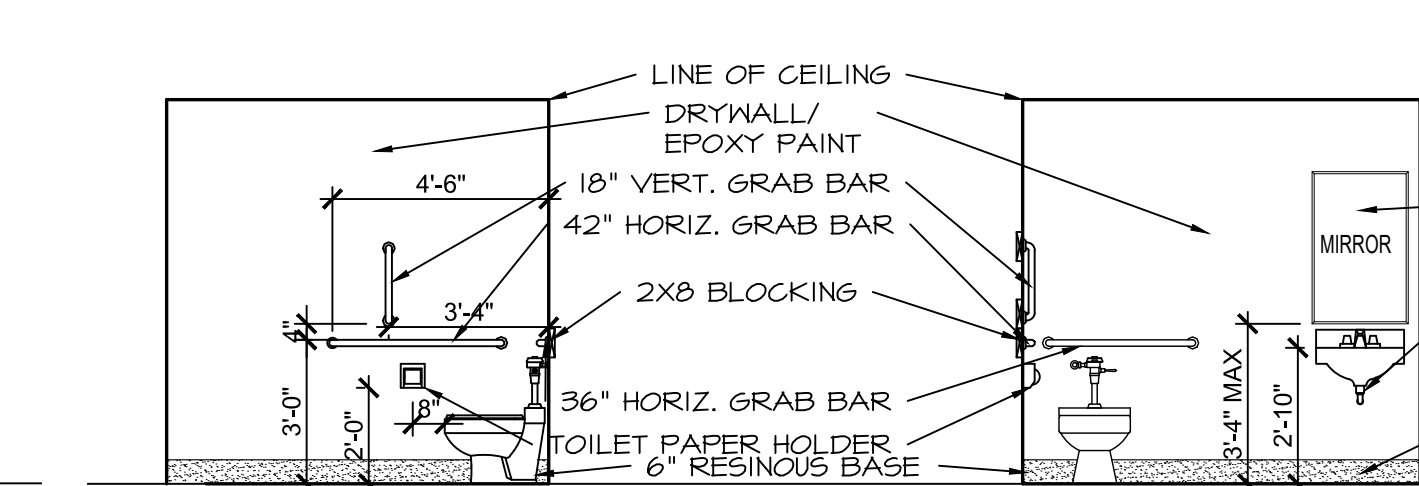
9 INT. ELEV. RM. 111
SCALE: 1/4" = 1'-0"



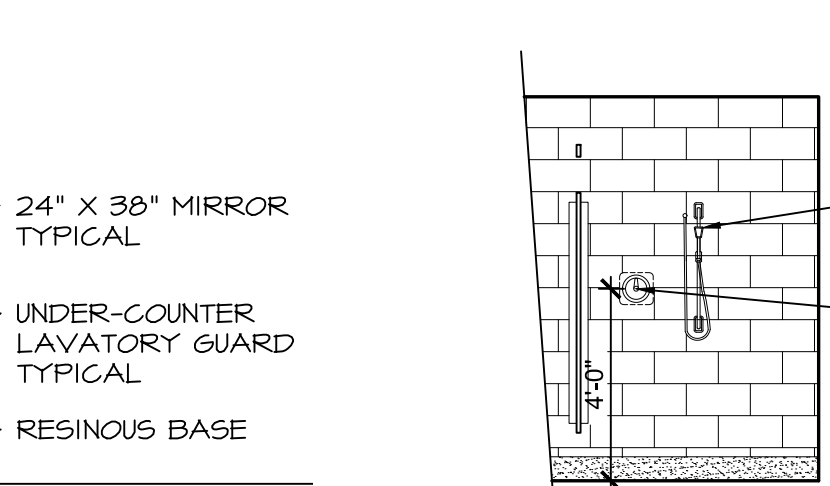
10 INT. ELEV. RM. 117
SCALE: 1/4" = 1'-0"



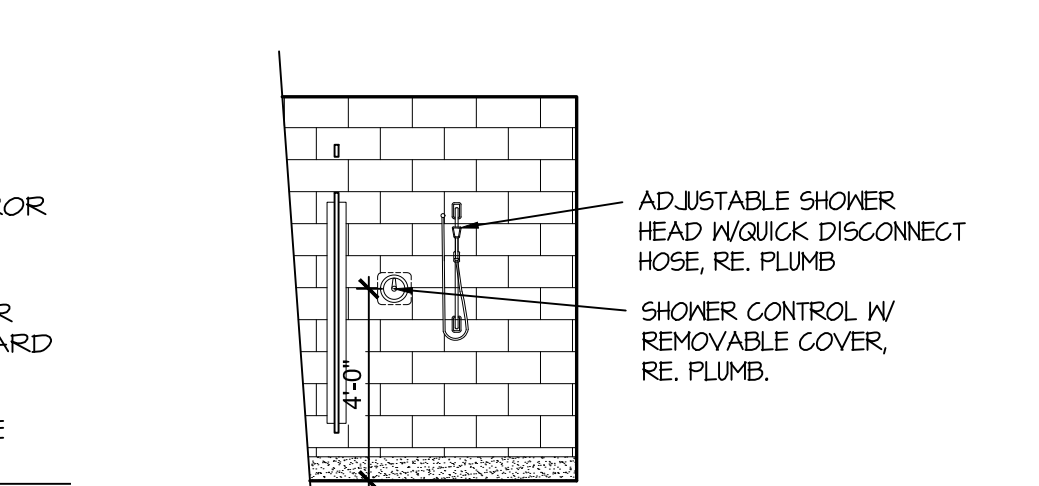
11 INT. ELEV. RM. 117
SCALE: 1/4" = 1'-0"



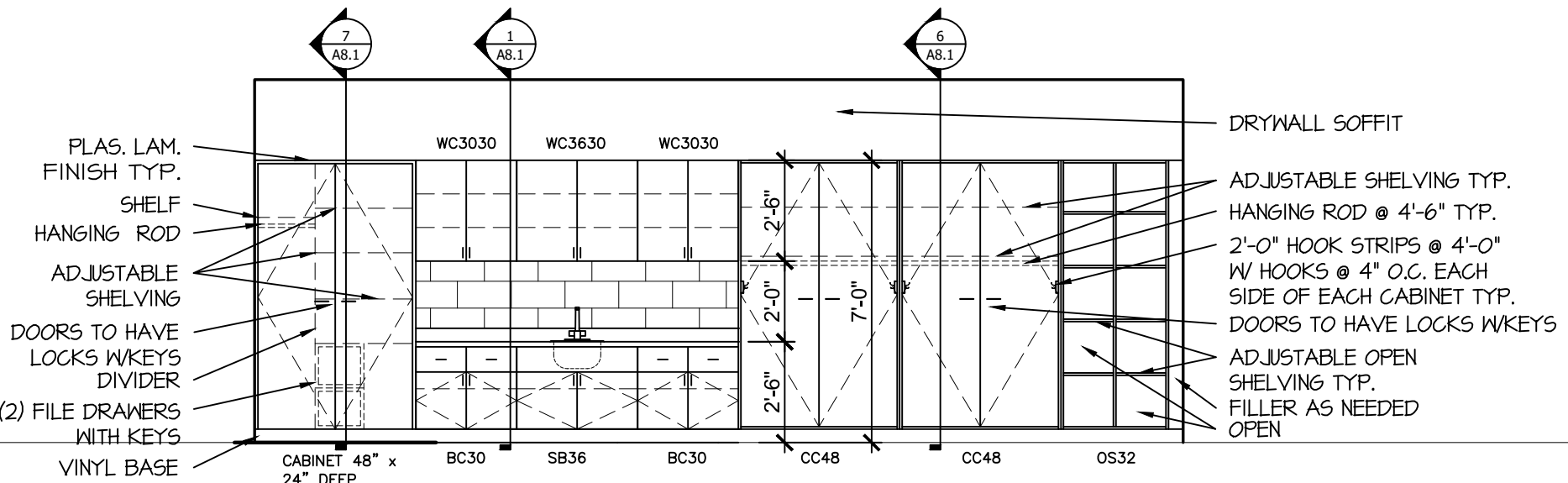
12 INT. ELEV. RM. 118
SCALE: 1/4" = 1'-0"



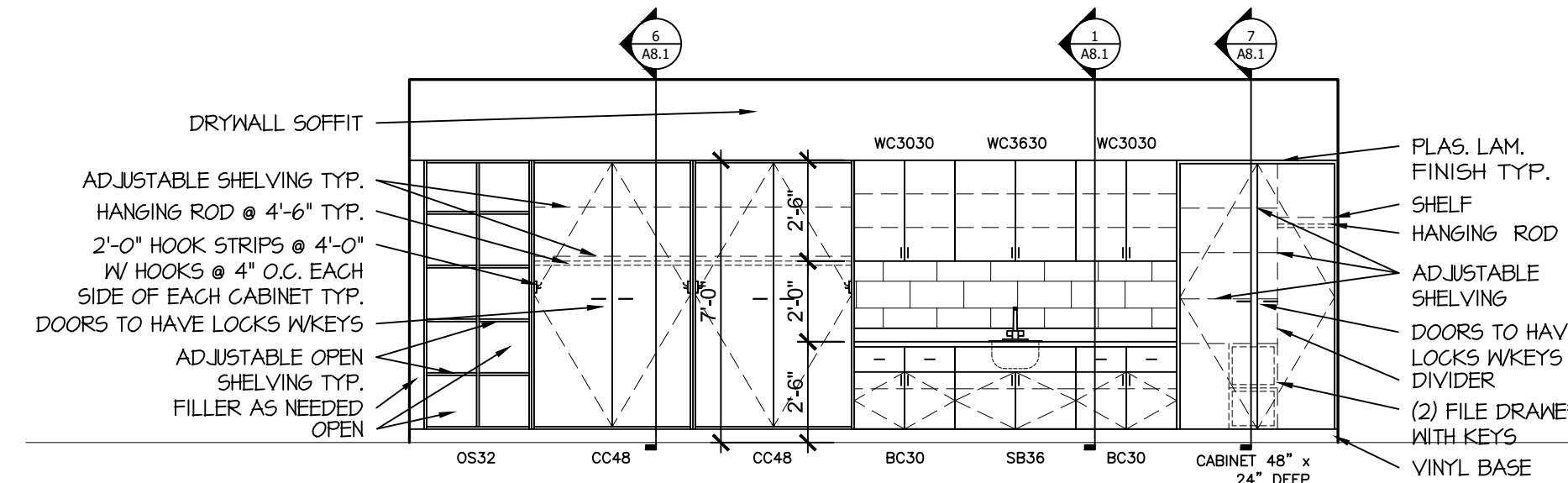
13 INT. ELEV. RM. 118
SCALE: 1/4" = 1'-0"



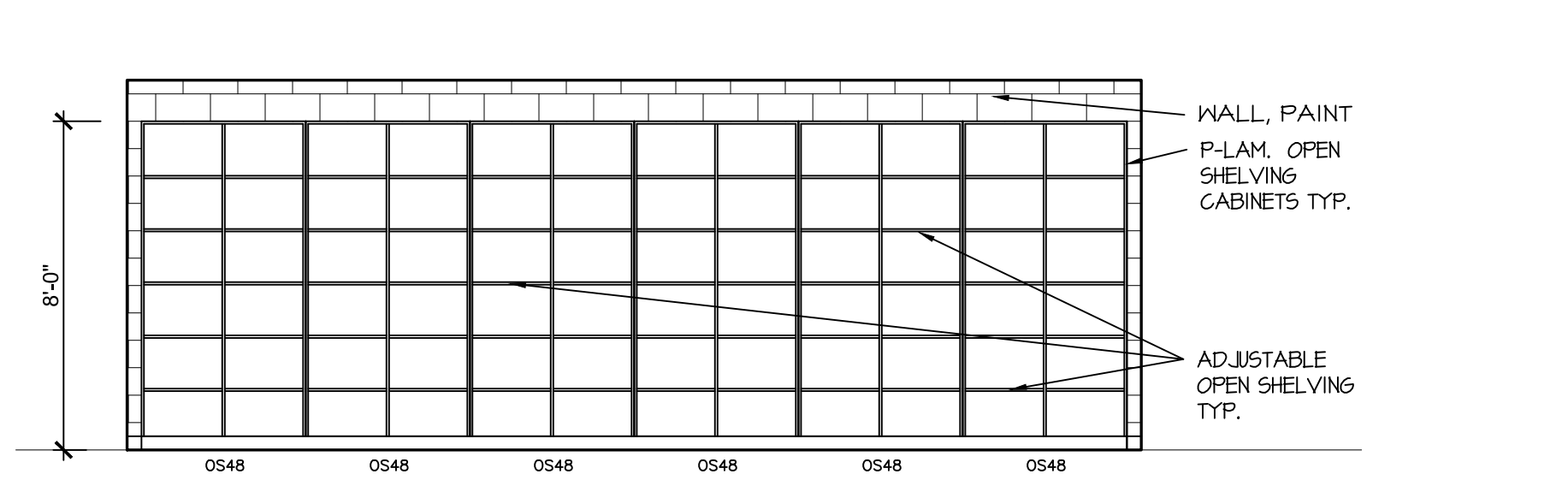
14 INTERIOR ELEVATION RM. 112
SCALE: 1/4" = 1'-0"



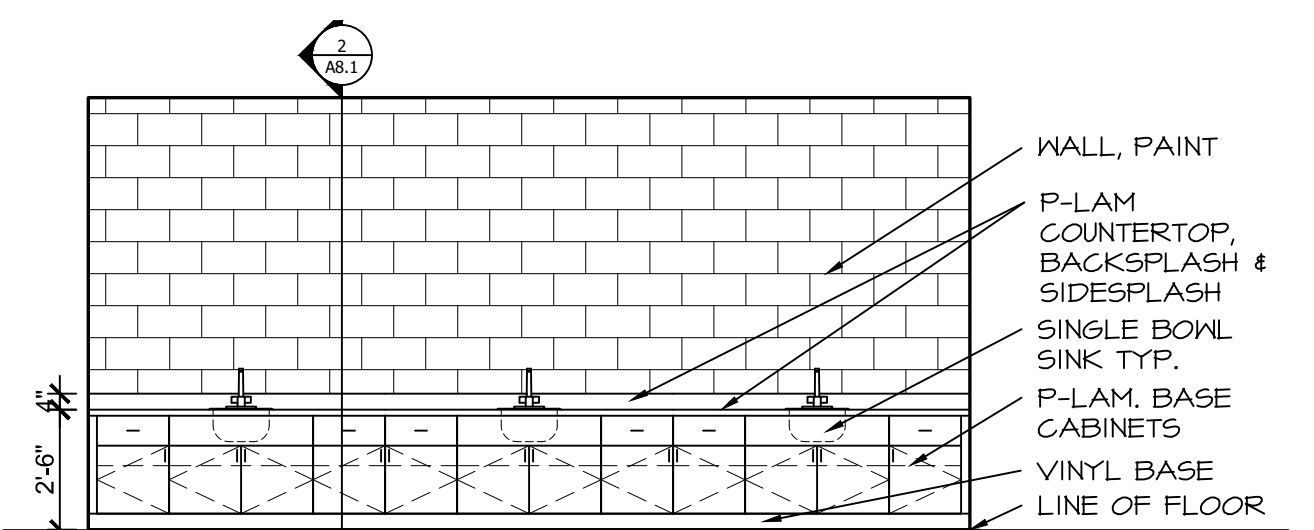
14 INT. ELEV. RMS. 100, 102 & 106
SCALE: 1/4" = 1'-0"



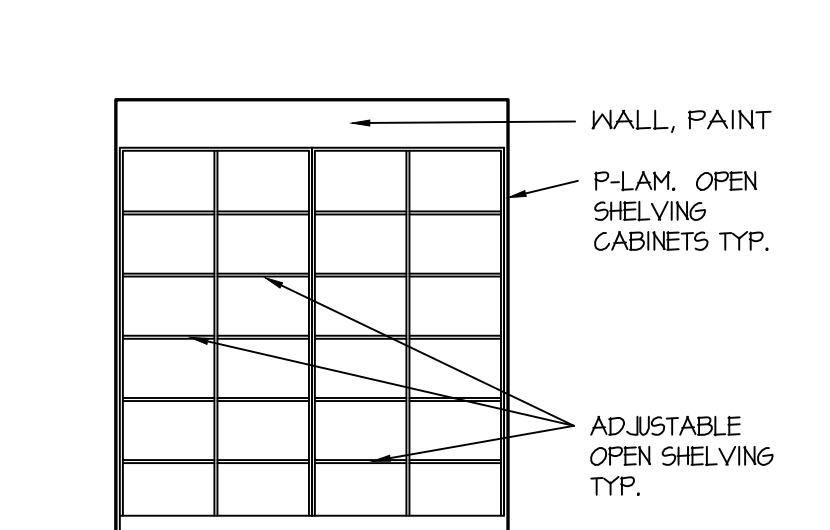
15 INT. ELEV. RMS. 101, 103 & 104
SCALE: 1/4" = 1'-0"



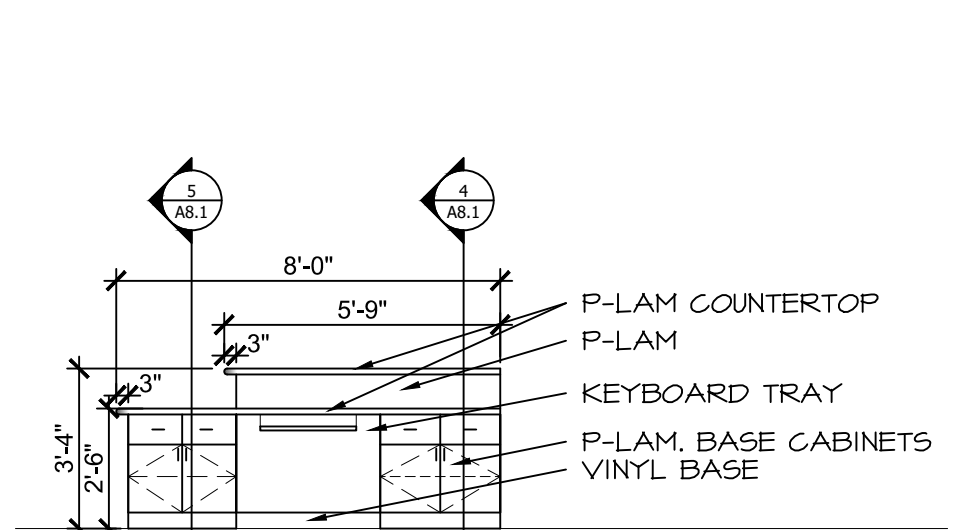
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SCALE: 1/4" = 1'-0"



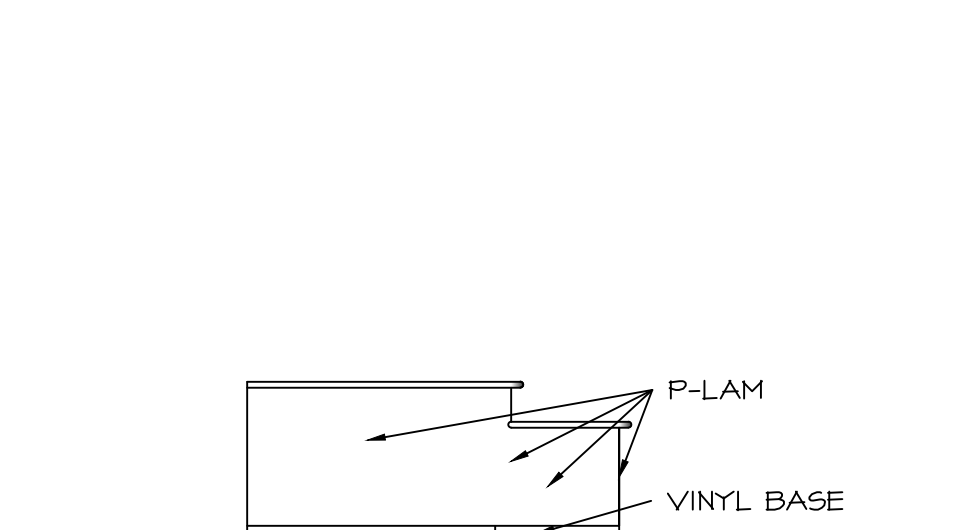
17 INT. ELEV. RM. 125
SCALE: 1/4" = 1'-0"



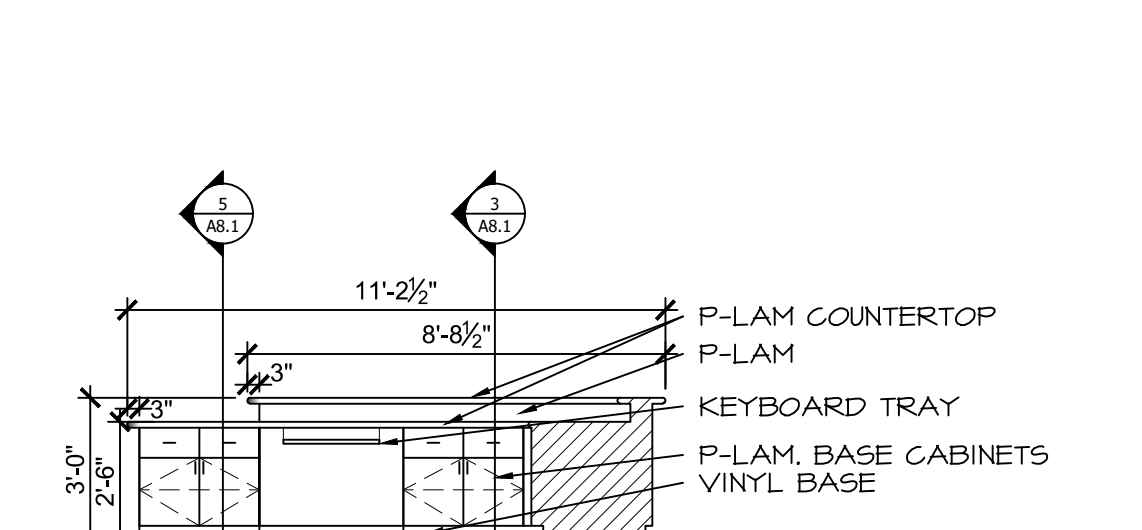
18 INT. ELEV. RM. 120
SCALE: 1/4" = 1'-0"



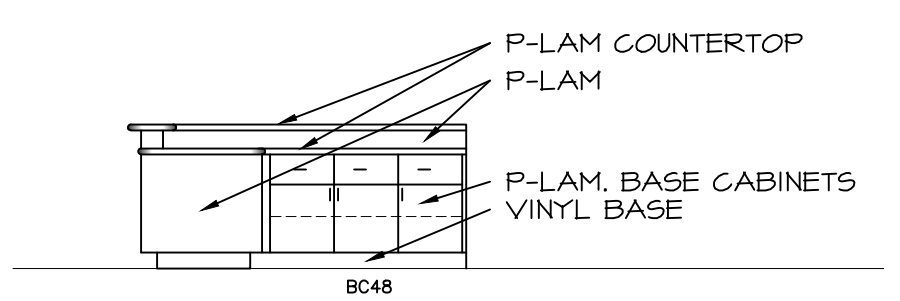
19 INT. ELEV. RM. 116
SCALE: 1/4" = 1'-0"



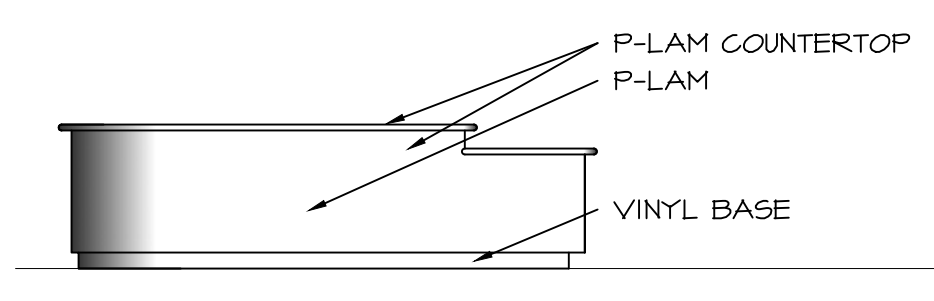
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SCALE: 1/4" = 1'-0"



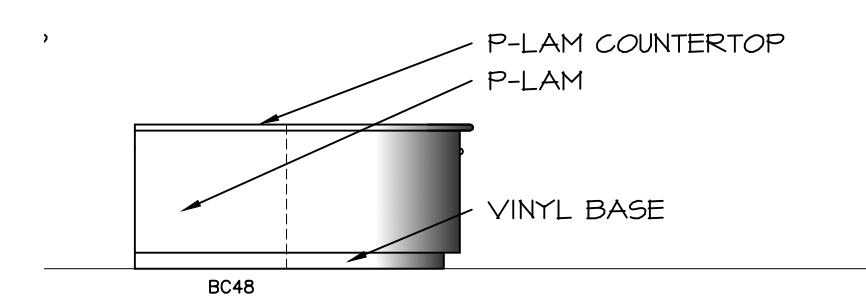
21 INT. ELEV. RM. 109
SCALE: 1/4" = 1'-0"



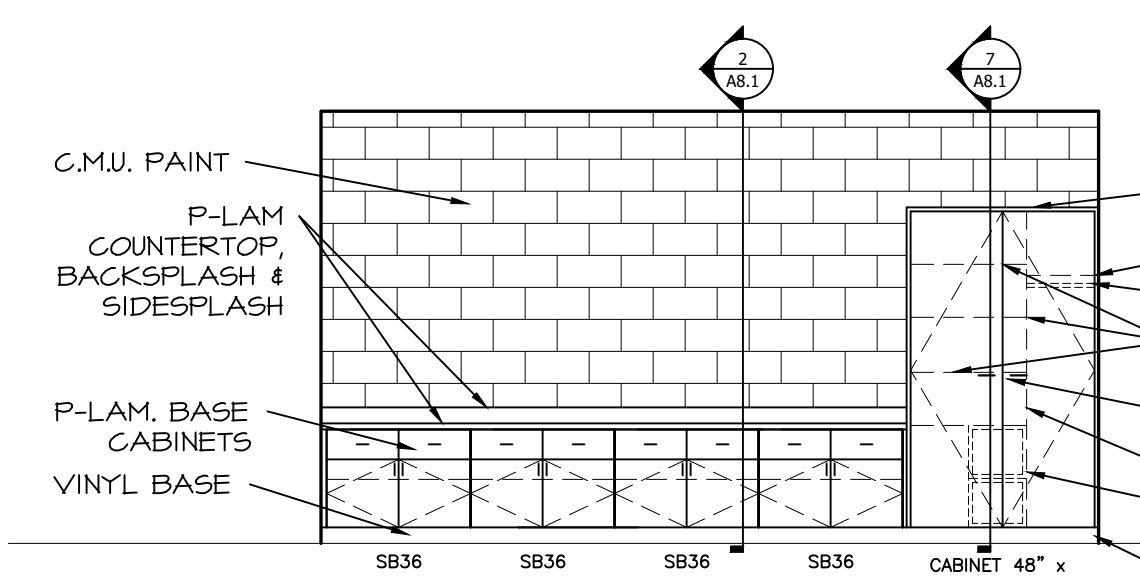
22 INT. ELEV. RM. 109
SCALE: 1/4" = 1'-0"



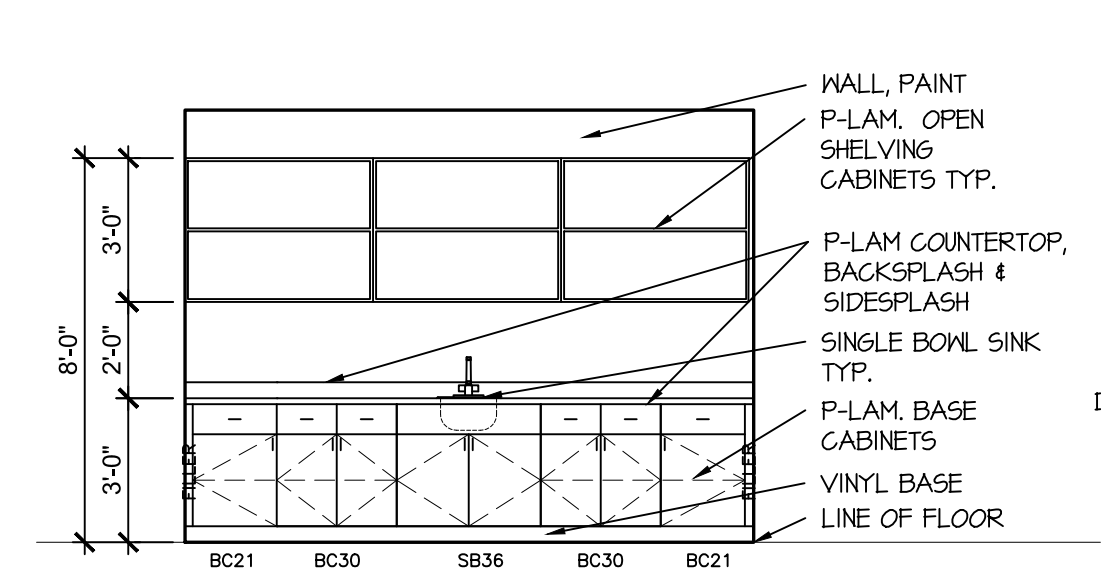
23 INT. ELEV. RM. 109
SCALE: 1/4" = 1'-0"



24 INT. ELEV. RM. 109
SCALE: 1/4" = 1'-0"



25 INT. ELEV. RM. 110
SCALE: 1/4" = 1'-0"



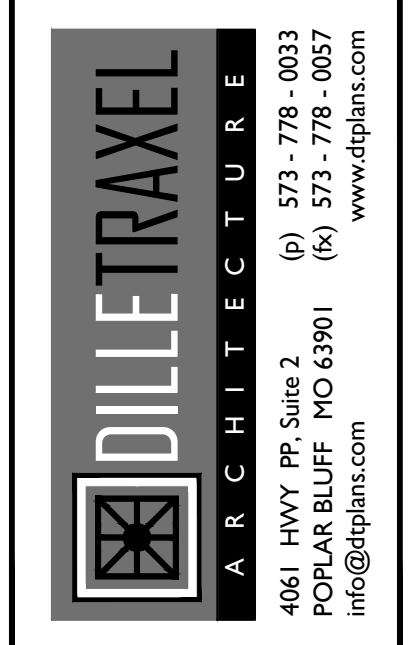
26 INT. ELEV. RM. 121
SCALE: 1/4" = 1'-0"

NO.	REVISIONS



BRETT PATRICK DILLE
ARKANSAS ARCHITECT LICENSE NO. 6194

ARCHITECTURAL CORPORATION MISSOURI
LICENSE NO. 200909489



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MECH / ELEC ENGINEER:
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(F) 573-243-2191

NEW ELEMENTARY SCHOOL
MAYNARD SCHOOL DISTRICT
MAYNARD, ARKANSAS 72444

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DATE: 10-27-2016
SHEET TITLE: INTERIOR ELEVATIONS
JOB NO: 1419
SHEET

A8.0

NOTICE: ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS, THE USER SHALL REFER TO THE CONTRACT DOCUMENTS. ALL QUESTIONS IN REFERENCE TO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT.

REVISIONS



BRETT PATRICK DILLE
ARKANSAS ARCHITECT LICENSE NO. 8794

ARCHITECTURAL CORPORATION MISSOURI
LICENSE NO. 2009003469



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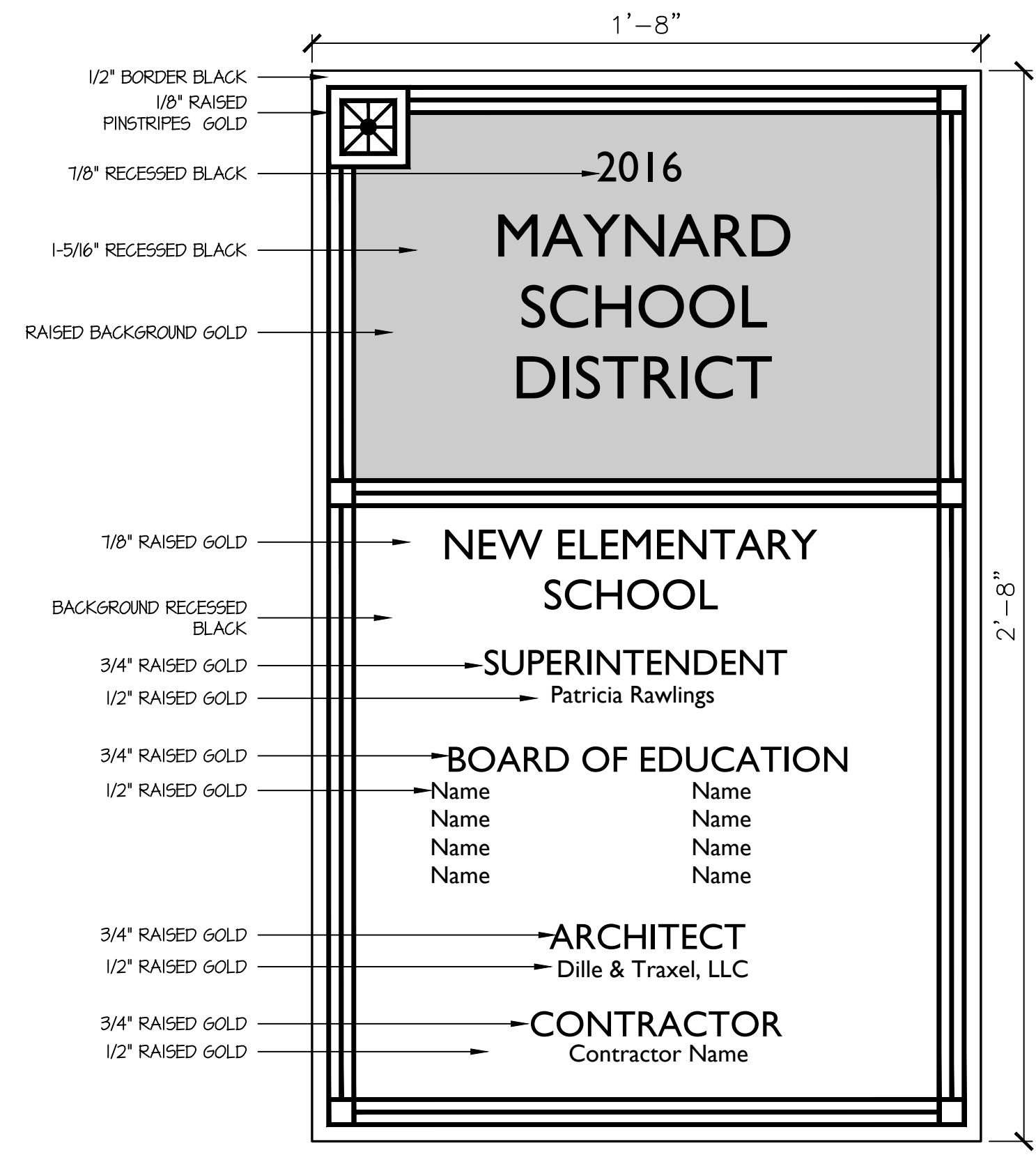
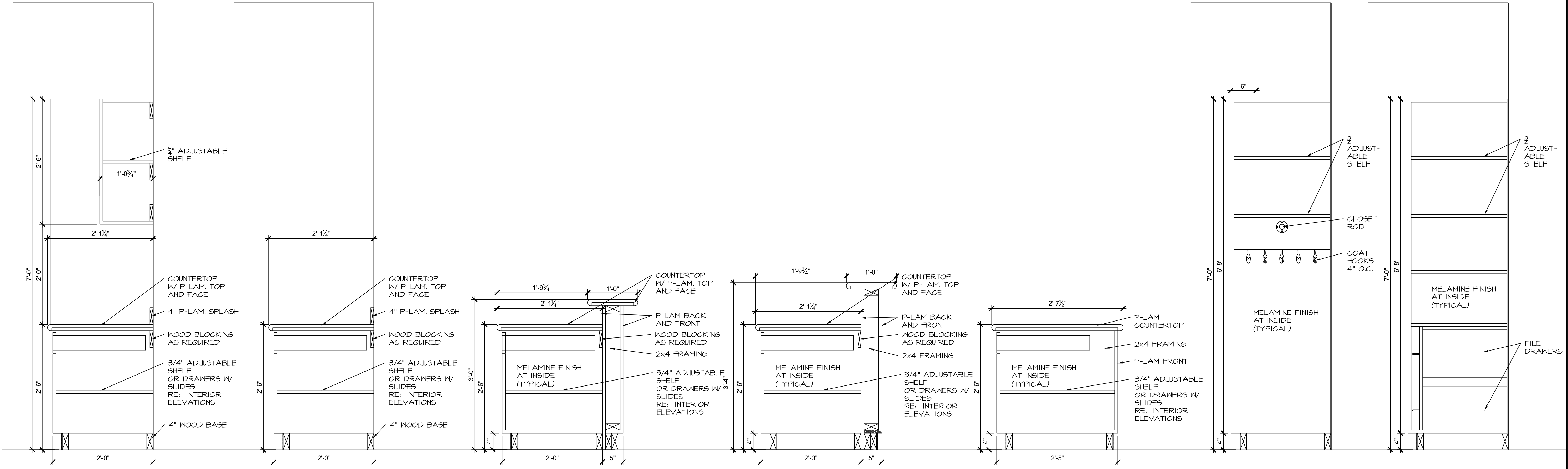
NEW ELEMENTARY SCHOOL
MAYNARD SCHOOL DISTRICT
MAYNARD, ARKANSAS 72444

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DATE
10-27-2016
SHEET TITLE
CABINET DETAILS
JOB NO.
1419
SHEET

A8.1



8 CAST PLAQUE DRAWING
SCALE: 3" = 1'-0"

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ARKANSAS ARCHITECT LICENSE NO. 8794

ARCHITECTURAL CORPORATION MISSOURI
LICENSE NO. 2009005489



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830 PEMBROKE, SUITE 200
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(P) 417-888-0445

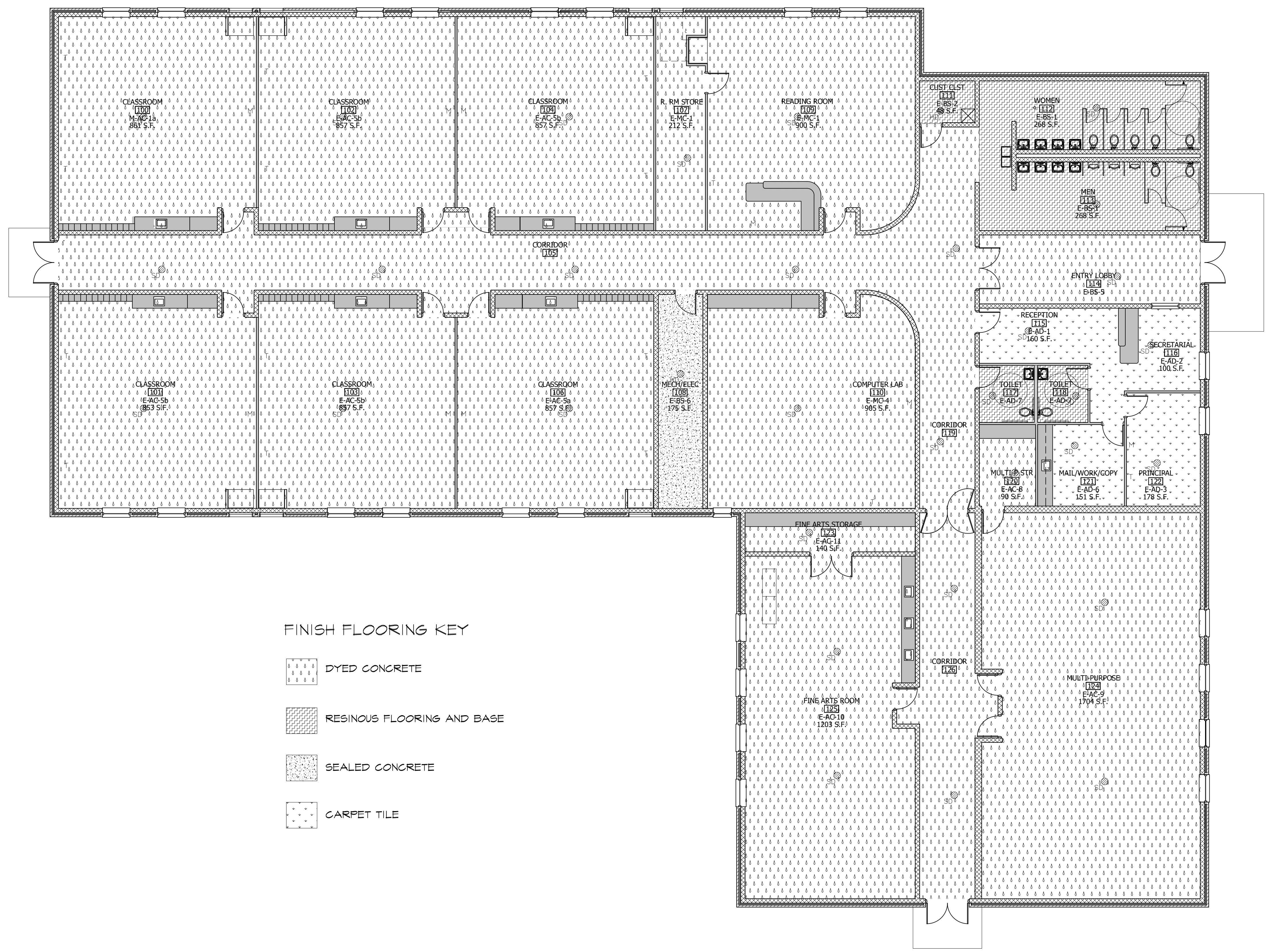
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MAYNARD SCHOOL DISTRICT
MAYNARD, ARKANSAS 72444


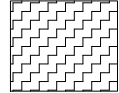
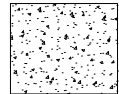
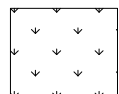
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DATE: 10-27-2016
SHEET TITLE: FINISH FLOORING PLAN
JOB NO: 1419
SHEET

A9.0



FINISH FLOORING KEY

-  DYED CONCRETE
-  RESINOUS FLOORING AND BASE
-  SEALED CONCRETE
-  CARPET TILE

FINISH FLOORING PLAN
SCALE: 1/8" = 1'-0"

NOTICE: ARCHITECT IN DATE OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS, THE DESIGNER SHALL BE RESPONSIBLE FOR RESOLUTION. ALL QUESTIONS IN REFERENCE TO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT.

REVISIONS



BRETT PATRICK DILLE
ARKANSAS ARCHITECT LICENSE NO. 6794

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LICENSE NO. 200902469

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STRICKLAND ENGINEERING
113 W. MAIN STREET, STE. 1
JACKSON, MO 63755
(P) 573-243-4080
(F) 573-243-2191

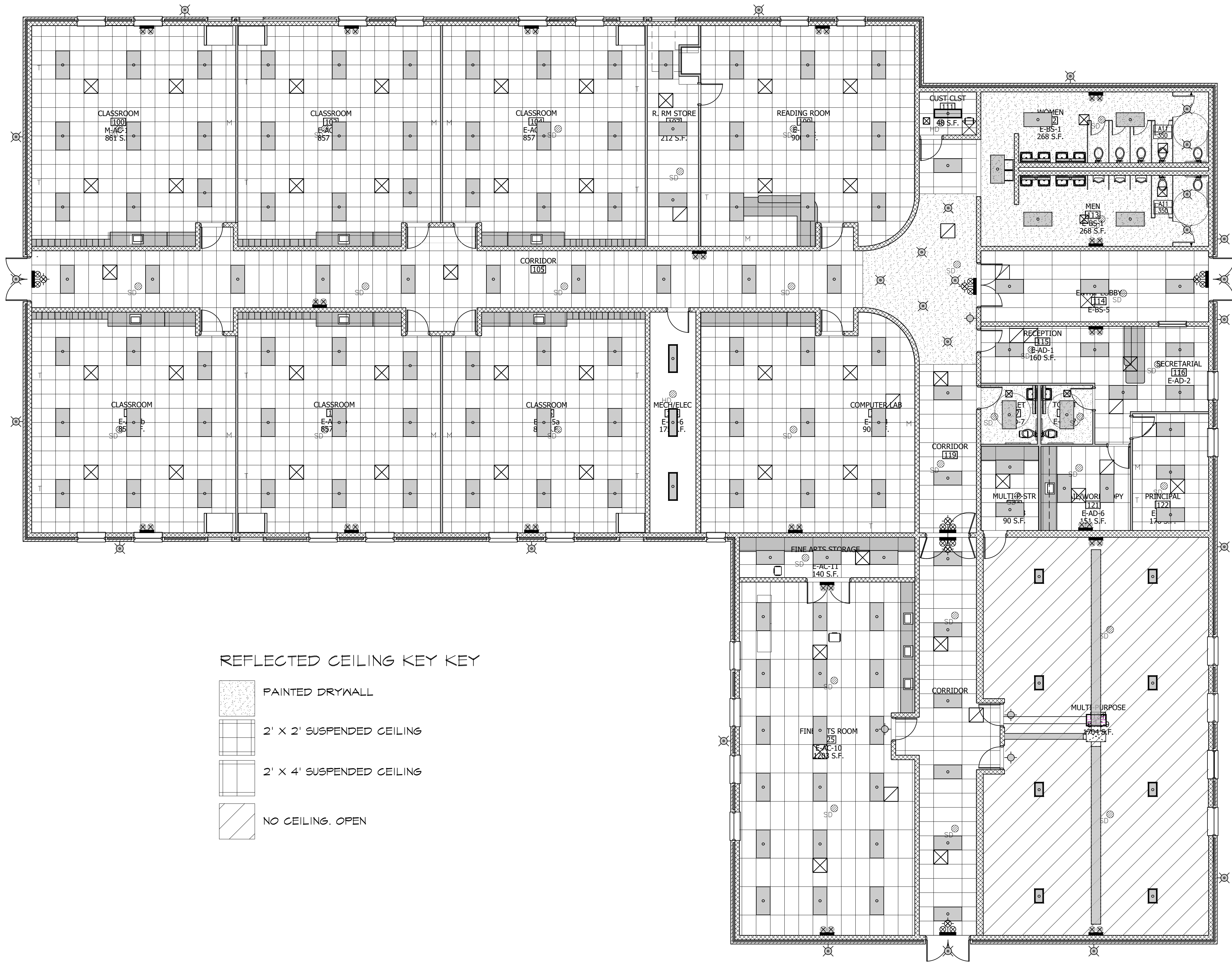
NEW ELEMENTARY SCHOOL
MAYNARD SCHOOL DISTRICT
MAYNARD, ARKANSAS 72444

CONFIDENTIAL





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DATE	10-27-2016
SHEET TITLE	REFLECTED CEILING PLAN
JOB NO.	1419
SHEET	

A9.1



REFLECTED CEILING KEY KEY

-  PAINTED DRYWALL
-  2' X 2' SUSPENDED CEILING
-  2' X 4' SUSPENDED CEILING
-  NO CEILING, OPEN

REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

NOTIFY ARCHITECT IN WRITING OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE USER OF THESE DRAWINGS OR THE INFORMATION CONTAINED HEREIN FOR ANY REASON OTHER THAN AS EXPRESSLY AUTHORIZED BY DILLE & TRAXEL, LLC IS STRICTLY PROHIBITED. THESE DRAWINGS HAVE BEEN DISTRIBUTED WITH THE UNDERSTANDING THAT ANYONE RECEIVING OR OTHERWISE OBTAINING POSSESSION OF THEM WILL BE EXPRESSLY NOTIFIED OF THEIR CONFIDENTIAL NATURE.

COLD FORMED STEEL FRAMING NOTES

- 1. DESIGN OF COLD-FORMED STEEL STRUCTURAL LOAD BEARING AND NON-LOAD BEARING AND NON-STRUCTURAL MEMBERS AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR...

SLAB ON GRADE GENERAL NOTES:

- 1. REINFORCE SLAB ON GRADE WITH WWR 6X8 W2 2XW2.9 (IN SHEETS). LOCATE WWR IN TOP THIRD OF SLAB. PROVIDE BOLSTERS, CHAIRS, OR OTHER MEANS APPROVED IN WRITING BY THE ENGINEER TO PROPERLY LOCATE REINFORCING...

PRE-ENGINEERED LIGHT GAGE TRUSS NOTES

- 1. GENERAL TRUSS LAYOUTS HAVE BEEN PROVIDED ON THE ROOF FRAMING PLANS FOR THE STRUCTURE. THE LAYOUTS HAVE BEEN PROVIDED TO SHOW THE DESIGNERS INTENT FOR LOAD TRANSFER INTO THE SUPPORTING STRUCTURE...

CONCRETE NOTES

- 1. SHOP DRAWINGS SHALL BE SUBMITTED INDICATING COMPLETE INFORMATION REQUIRED FOR CONSTRUCTION OF THE REINFORCED CONCRETE ELEMENTS...

Table with 5 columns: USE, 28-DAY Fc, SLUMP, MAX WC, AIR. Rows include FOOTING, FOUNDATION WALLS, INTERIOR SOG, EXTERIOR SOG.

EXISTING CONDITIONS AND DIMENSIONS NOTE

- 1. THIS PROJECT CONSISTS OF ADDITIONS AND MODIFICATIONS TO EXISTING FACILITIES. INFORMATION DEPICTED ON THE DRAWINGS WAS TAKEN FROM ORIGINAL DESIGN DRAWINGS, WHICH WERE ASSUMED TO BE 'AS-BUILT' DRAWINGS...

FOUNDATION NOTES

- 1. REFERENCE THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON, INC DATED OCTOBER 21, 2014 FOR ADDITIONAL SITE DEVELOPMENT REQUIREMENTS NOT INCLUDED IN THESE NOTES...

STEEL JOIST NOTES

- 1. ALL STEEL JOISTS SHALL BE DESIGNED BY THE JOIST MANUFACTURER. THE MANUFACTURERS ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ALL STEEL JOISTS...

MASONRY GENERAL NOTES

- 1. COMPRESSIVE STRENGTH OF CONCRETE MASONRY CONSTRUCTION (CMU) SHALL BE AS FOLLOWS: MASONRY STRENGTH NOT SPECIFICALLY NOTED IN PLAN SHALL BE fm = 1600 PSI...

GENERAL NOTES

- 1. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF WORK, INCLUDING SAFETY OF PROPERTY AND PERSONS. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT JUST DURING NORMAL WORKING HOURS...

STRUCTURAL STEEL NOTES

- 1. FOR BOLTED CONNECTIONS OF BEAMS AND COLUMNS USE A325 OR A490 BOLTS, SIZE AS REQUIRED. ALL BOLTS FOR SLIP CRITICAL CONNECTIONS SHALL BE LEAD INDICATED...

Table with 2 columns: STRUCTURAL STEEL DESIGN PROPERTIES, VALUE. Rows include W-AND WIT-SHAPES ANGLES AND C-SHAPES, PLATES AND BARS, STEEL TUBING, STEEL PIPE, HEADED STUD ANCHORS.

STEEL DECK NOTES

- 1. ALL STEEL DECKING SHALL BE ATTACHED TO SUPPORTING BEAMS AND JOISTS IN ACCORDANCE WITH MANUFACTURERS LATEST RECOMMENDATIONS...

Table with 2 columns: CODE STUDY, MAYNARD ELEMENTARY SCHOOL ADDITION. Rows include DESIGN CODE, DEAD LOADS, LIVE LOADS, ROOF SNOW LOADS, WIND LOADS, COMPONENTS AND CLADDING WIND PRESSURES, SEISMIC LOADS.

Professional Engineer Seal for Brian M. Orr, Engineer AR# 13335. Includes a circular seal with 'Arkansas Professional Engineer' text.

Brian M. Orr, Engineer AR# 13335

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Vertical banner for MAYNARD ELEMENTARY SCHOOL DISTRICT, MAYNARD, ARKANSAS 72444.

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NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUANTITIES SHALL BE REFERENCED TO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT...

NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT.

SPECIAL STRUCTURAL INSPECTION NOTES

- SPECIAL INSPECTIONS SHALL BE IN CONFORMANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE 2012 EDITION.
- PERIODIC INSPECTION IS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTIONS BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
- CONTINUOUS INSPECTIONS IS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
- INSPECTION REPORTS SHALL BE PREPARED ACCORDING TO IBC SECTION 1704.1.2.
- IBC SECTION 109 SHALL BE REFERENCED FOR GENERAL REQUIREMENTS REGARDING INSPECTIONS.
- 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 TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE STATEMENT SHALL INCLUDE THE FOLLOWING:
 - ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED ON THE STATEMENT OF SPECIAL INSPECTIONS.
 - ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
 - PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTORS ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF REPORTS.
 - IDENTIFICATION AND QUALIFICATIONS OF THE PERSONS EXERCISING SUCH CONTROL AND THEIR POSITION IN THE ORGANIZATION.
- SPECIAL INSPECTORS SHALL KEEP RECORDS OF SPECIAL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE OWNER, ENGINEER OF RECORD, CONTRACTOR, BUILDING OFFICIAL, AND OTHER DESIGNATED PERSONS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND BUILDING OFFICIAL. SPECIAL INSPECTORS SHALL SUBMIT FINAL REPORTS DOCUMENTING SPECIAL INSPECTIONS AND CORRECTIONS OF ANY DISCREPANCIES.

SPECIAL INSPECTION OF MASONRY CONSTRUCTION LEVEL 1

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	ACI 530/ASCE 5/TMS 402*	ACI 530.1/ASCE 6/TMS 602*
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. PROPORTIONS OF SITE-PREPARED MORTAR.	-	X	-	-	ART. 2.6A
b. CONSTRUCTION OF MORTAR JOINTS.	-	X	-	-	ART. 3.3B
c. LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES.	-	X	-	-	ART. 3.4, 3.6A
d. PRESTRESSING TECHNIQUE.	-	X	-	-	ART. 3.6B
e. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	-	X	-	-	ART. 2.4B, 2.4H
2. THE INSPECTION PROGRAM SHALL VERIFY:					
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	-	X	-	-	ART. 3.3G
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	-	X	-	SEC. 1.2.2(e), 2.1.4, 3.1.6	-
c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.	-	X	-	SEC. 1.13	ART. 2.4, 3.4
d. WELDING OF REINFORCING BARS	X	-	-	SEC. 2.1.10.7.2, 3.3.3.4(b)	-
e. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	-	X	SEC. 2.104.3, 2.104.4	-	ART. 1.8C, 1.8D
f. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	-	X	-	-	ART. 3.6B
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. GROUT SPACE IS CLEAN.	-	X	-	-	ART. 3.2D
b. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.	-	X	-	SEC. 1.13	ART. 3.4
c. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	-	X	-	-	ART. 2.6B
d. CONSTRUCTION OF MORTAR JOINTS.	-	X	-	-	ART. 3.3B
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	X	-	-	-	ART. 3.5
a. GROUTING OF PRESTRESSING BONDED TENDONS.	X	-	-	-	ART. 3.6C
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	X	-	SEC. 2.105.2.2, 2.105.3	-	ART. 1.4
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	-	X	-	-	ART. 1.5

FOR SI: *C = (°F - 32)/1.8
 a. THE SPECIFIC STANDARDS REFERENCED ARE THOSE LISTED IN CHAPTER 35.

REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	-
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD*	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	-	X	ACI 318: 3.5, 7.1-7.7	1913.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5b.	-	-	AWS D1.4 ACI 318: 3.5.2	-
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	X	-	-	1911.5
4. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 5.11-5.13	1913.9
8. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X X	-	ACI 318: 18.20 ACI 318: 18.18.4	-
9. ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: CH. 16	-
10. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 6.2	-
11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 6.1.1	-

FOR SI: 1 INCH = 25.4 MM
 a. WHERE APPLICABLE, SEE ALSO SECTION 1707.1, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

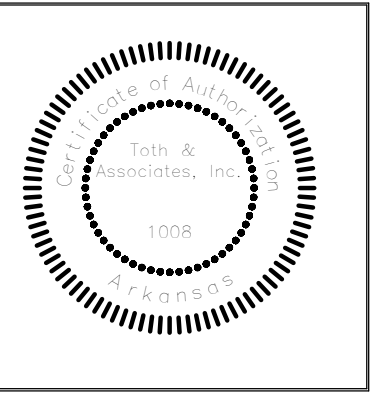
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD*	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS, AISC 360, SECTION A3.3	-
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	X	-	-
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
a. BEARING-TYPE CONNECTIONS.	-	X	-	-
b. SLIP-CRITICAL CONNECTIONS.	X	X	AISC 360, SECTION M2.5	1704.3.3
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	-	ASTM A 6 OR ASTM A 568	1708.4
b. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.	-	-	ASTM A 6 OR ASTM A 568	-
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	-	AISC 360, SECTION A3.5	-
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	-	-	-
5. INSPECTION OF WELDING: a. STRUCTURAL STEEL:				
1. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	-	-	-
2. MULTIPASS FILLET WELDS.	X	-	AWS D1.1	1704.3.1
3. SINGLE-PASS FILLET WELDS > 5/16"	X	-	-	-
4. SINGLE-PASS FILLET WELDS ≤ 5/16"	-	X	-	-
5. FLOOR AND ROOF DECK WELDS.	-	X	AWS D1.1	-
b. REINFORCING STEEL:				
1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	-	X	-	-
2. REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	-	AWS D1.4 ACI 318: 3.5.2	-
3. SHEAR REINFORCEMENT.	X	-	-	-
4. OTHER REINFORCING STEEL.	-	X	-	-
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: a. DETAILS SUCH AS BRACING AND STIFFENING. b. MEMBER LOCATIONS. c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	- - -	- - -	- - -	1704.3.2

FOR SI: 1 INCH = 25.4 MM
 a. WHERE APPLICABLE, SEE ALSO SECTION 1707.1, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.

No.	Date	Description



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 SHEET TITLE: SP INSPECTIONS AND GEN NOTES
 JOB NO: 12-028
 SHEET: **S0.1**
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ABBREVIATION LEGEND	
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BO	BOTTOM OF
BOA	BACK OF ANGLE
BOF	BOTTOM OF FOOTING ELEVATION
BOS	BOTTOM OF STEEL ELEVATION
BOT	BOTTOM
BRG	BEARING
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
DB	DECK BEARING ELEVATION
DIA	DIAMETER
EF	EACH FACE
EL	ELEVATION
EQ	EQUAL
EW	EACH WAY
FDN	FOUNDATION
FF	FINISHED FLOOR
FS	FAR SIDE
FTG	FOOTING
FV	FIELD VERIFY
GA	GAGE
GC	GENERAL CONTRACTOR
HAS	HEADED ANCHOR STUD
HORIZ	HORIZONTAL
INFO	INFORMATION
JB	JOIST BEARING ELEVATION
JST	JOIST
KSI	KIPS PER SQUARE INCH
L	LENGTH
LB	POUNDS
LGMF	LIGHT GAGE METAL FRAMING
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	MASONRY LINTEL
MTL	METAL
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PAF	POWDER ACTUATED FASTENER
PCF	POUNDS PER CUBIC FOOT
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RE	REFER TO
REIN	REINFORCING
REQ	REQUIREMENTS / REQUIRED
RTU	ROOF TOP UNIT
SDI	STEEL DECK INSTITUTE
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SL	STRUCTURE LINE
SOG	SLAB ON GRADE
SPEC	SPECIFICATIONS
T	THICKNESS
T&B	TOP AND BOTTOM
TO	TOP OF
TOC	TOP OF CONCRETE ELEVATION
TOF	TOP OF FOOTING ELEVATION
TOP	TOP OF PEDESTAL ELEVATION
TOS	TOP OF STEEL ELEVATION
TOSW	TOP OF STEEWALL ELEVATION
TOW	TOP OF WALL ELEVATION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VLD	VERTICAL LEG DOWN
W	WIDTH
WP	WORK POINT
WWR	WELDED WIRE REINFORCING

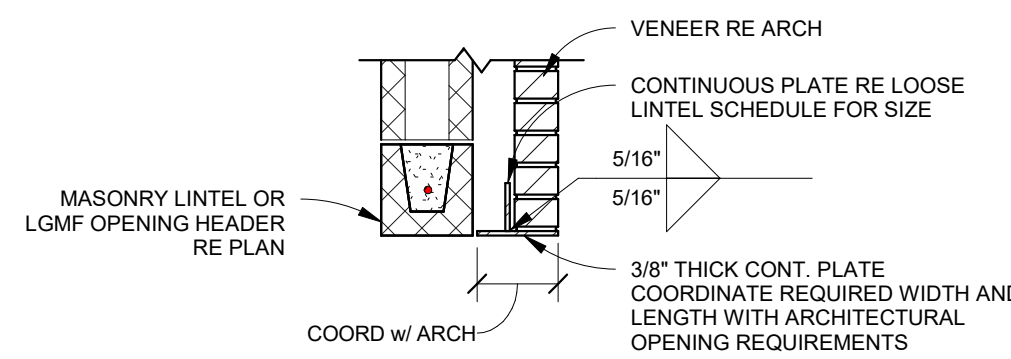
TAG LEGEND	
11	BASEPLATE MARK
11	COLUMN MARK
11	PEDESTAL MARK
11	FOOTING MARK
11	REINFORCING BAR
11	REVISION TAG
11	CENTER LINE
11	KEYNOTE TAG
11	CMU WALL REINFORCING TAG
11	CONTINUOUS WALL FOOTING TAG

CONCRETE DEVELOPMENT AND SPLICE						
LAP SPLICE LENGTHS (INCHES)						
BAR SIZE	TENSION (CLASS B SPLICE)					
	F _c =3000 psi		F _c =4000 psi		F _c =5000 psi	
	TOP	OTHER	TOP	OTHER	TOP	OTHER
3	28	22	24	19	22	17
4	37	29	32	25	29	22
5	47	36	40	31	36	28
6	56	43	48	37	43	33
7	65	50	56	43	50	39
8	74	57	64	50	58	45

DEVELOPMENT LENGTHS (INCHES)						
BAR SIZE	STRAIGHT DOWEL DEVELOPMENT LENGTHS					
	F _c =3000 psi		F _c =4000 psi		F _c =5000 psi	
	TOP	OTHER	TOP	OTHER	TOP	OTHER
3	22	17	19	15	17	13
4	29	22	25	19	22	17
5	36	28	31	24	28	22
6	43	33	37	29	33	26
7	50	40	44	34	39	31
8	58	47	52	40	46	37

- NOTES:
- TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST BELOW THE REINFORCEMENT.
 - LAP SPLICE LENGTHS ARE BASED ON BARS SPACED AT 4 BAR DIAMETERS OR MORE ON CENTER. NOTIFY ENGINEER IF SPACING IS LESS THAN 4 BAR DIAMETERS.

LOOSE LINTEL SCHEDULE		
MAX CLEAR OPENING	PLATE SIZE	MINIMUM BEARING (INCHES)
3'-0"	3 1/2 X 5/16	0'-4"
4'-0"	4 X 5/16	0'-4"
6'-0"	5 X 3/8	0'-4"
8'-0"	6 X 3/8	0'-8"



- NOTES:
- PROVIDE LOOSE LINTEL FOR SUPPORT TO BRICK MASONRY AND OTHER VENEERS AT LOCATIONS WHERE MASONRY LINTELS ARE NOT PROVIDED. AT LOCATIONS WITH STEEL LINTELS BRICK SHALL BE SUPPORTED BY MINIMUM 3/8\"/>
 - ALL LINTELS SHALL BE HOT DIPPED GALVANIZED

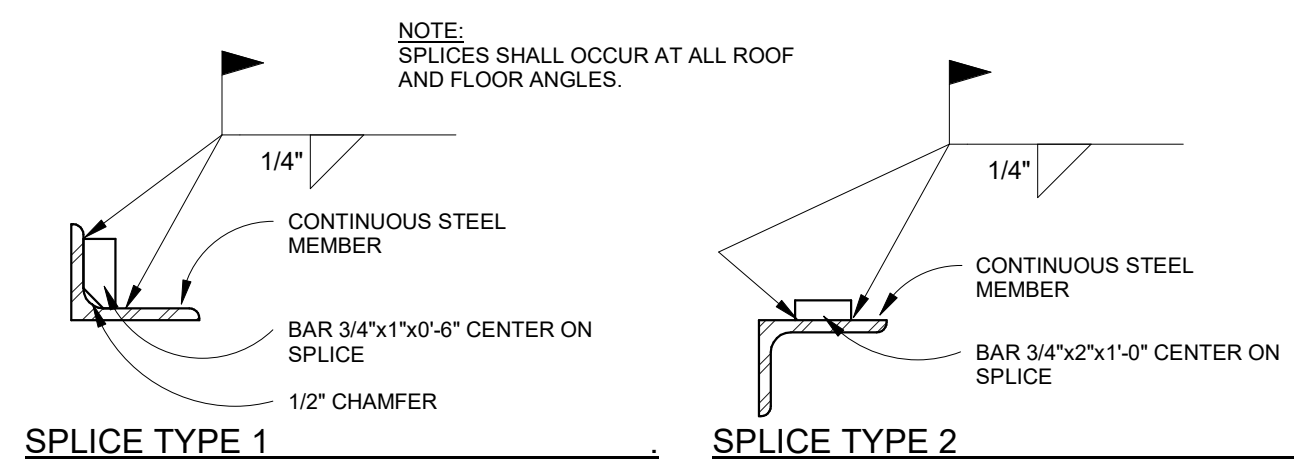
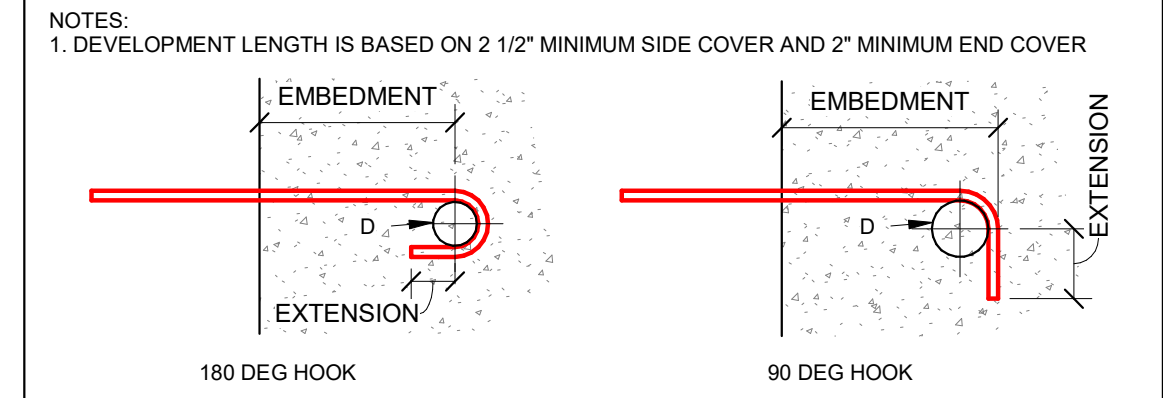
STRUCTURAL STEEL			
TYPICAL BOLTED CONNECTION TABLE			
1. TYPICAL BOLT PATTERN AND PLATE LENGTH (USE 3/4\"/>			
2. REFERENCE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.			
NOMINAL MEMBER DEPTH	BOLT ROWS	MIN. PLATE LENGTH *	PLATE THICKNESS
8"	2	6"	3/8"
10"	3	9"	3/8"
12"	3	9"	3/8"
14"	3	9"	3/8"
16"	4	12"	3/8"
18"	5	15"	3/8"
21"	6	18"	1/2"
24"	7	21"	1/2"
27"	7	21"	1/2"
30"	8	24"	1/2"

* LENGTH ALSO APPLIES TO CONNECTIONS USING WT OR ANGLES

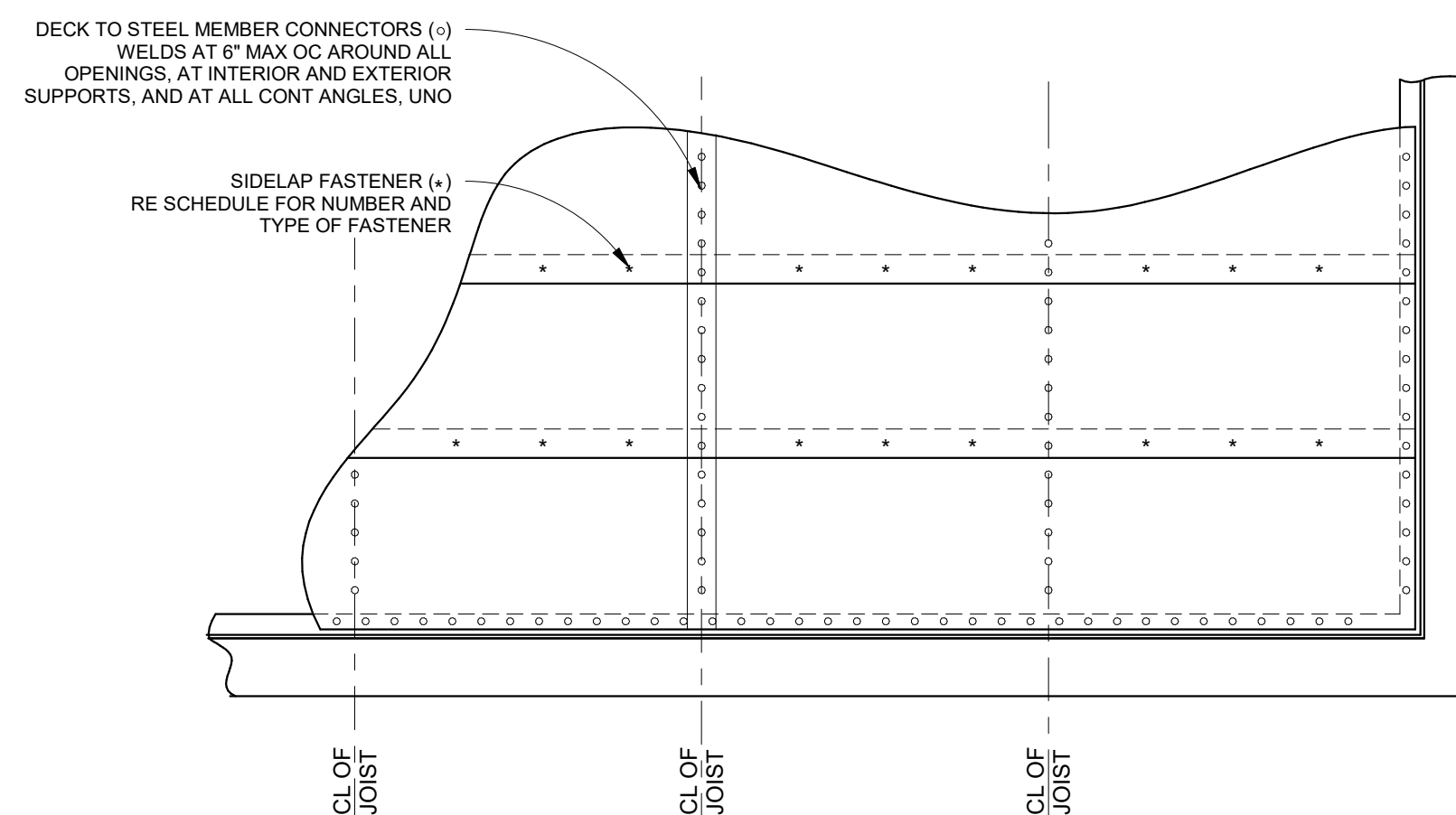
MASONRY DEVELOPMENT AND SPLICE			
BAR SIZE	TENSION / COMPRESSION		LAP
	8"	12"	8" or 12"
3	24	24	27
4	24	24	36
5	26	26	45
6	43	40	54
7	60	46	63
8	92	61	72

WALL FOOTING SCHEDULE			
MARK	W x T	LONGITUDINAL REINFORCING	TRANSVERSE REINFORCING
WF2	2'-0" x 1'-0"	(3) #5s BTM	#5s @ 12" OC BTM
WF4	4'-0" x 1'-0"	(5) #5s BTM	#5s @ 12" OC BTM
WF6	6'-0" x 1'-0"	(6) #5s T & B	#5s @ 12" OC T & B

HOOKED DOWEL DEVELOPMENT LENGTHS IN TENSION (INCHES)					
BAR SIZE	EMBEDMENT			EXTENSION	
	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	90 DEG HOOK	180 DEG HOOK MINIMUM DIA OF BEND "D" (IN)
#3	6	6	6	4.5	2.5
#4	8	7	7	6.0	2.5
#5	10	8	8	7.5	2.5
#6	12	10	10	9.0	3.0
#7	13	12	10	10.5	3.5
#8	15	13	12	12.0	4.0
#9	17	15	13	13.5	4.5
#10	19	17	15	15.2	5.1
#11	22	19	16	16.9	5.6

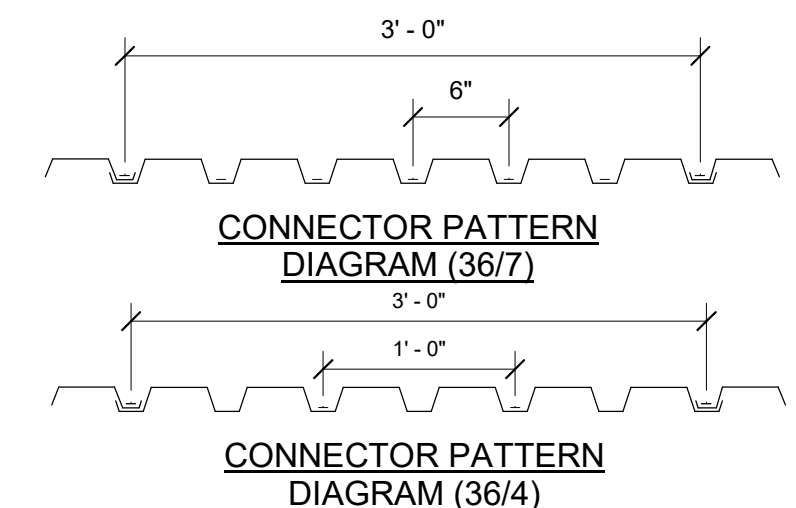


2 SPLICE DETAILS
Scale: 1" = 1'-0"



1 DIAPHRAGM CONNECTION DIAGRAM
Scale: 1" = 1'-0"

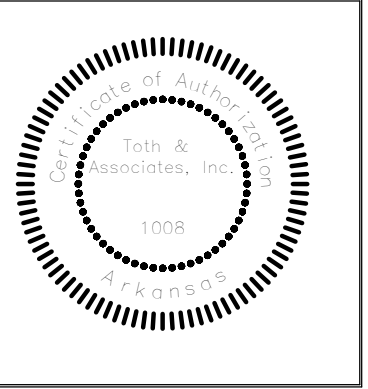
SIDELAP FASTENER SCHEDULE		
DECK TYPE	() DECK TO STEEL MEMBER CONNECTOR TYP	() NUMBER OF SIDELAP CONNECTORS (#10 TEK SCREWS, UNO)
1.5 B DECK CONNECTOR PATTERN 36/7	5/8" DIA PUDDLE WELDS #12 TEK SCREWS	4 CONNECTORS AT 5 EQUAL SPACES 8 CONNECTORS AT 9 EQUAL SPACES
1.5 C DECK CONNECTOR PATTERN 36/4	5/8" DIA PUDDLE WELDS #12 TEK SCREWS	1 CONNECTORS AT 2 EQUAL SPACES 4 CONNECTORS AT 5 EQUAL SPACES



No.	Date	Description



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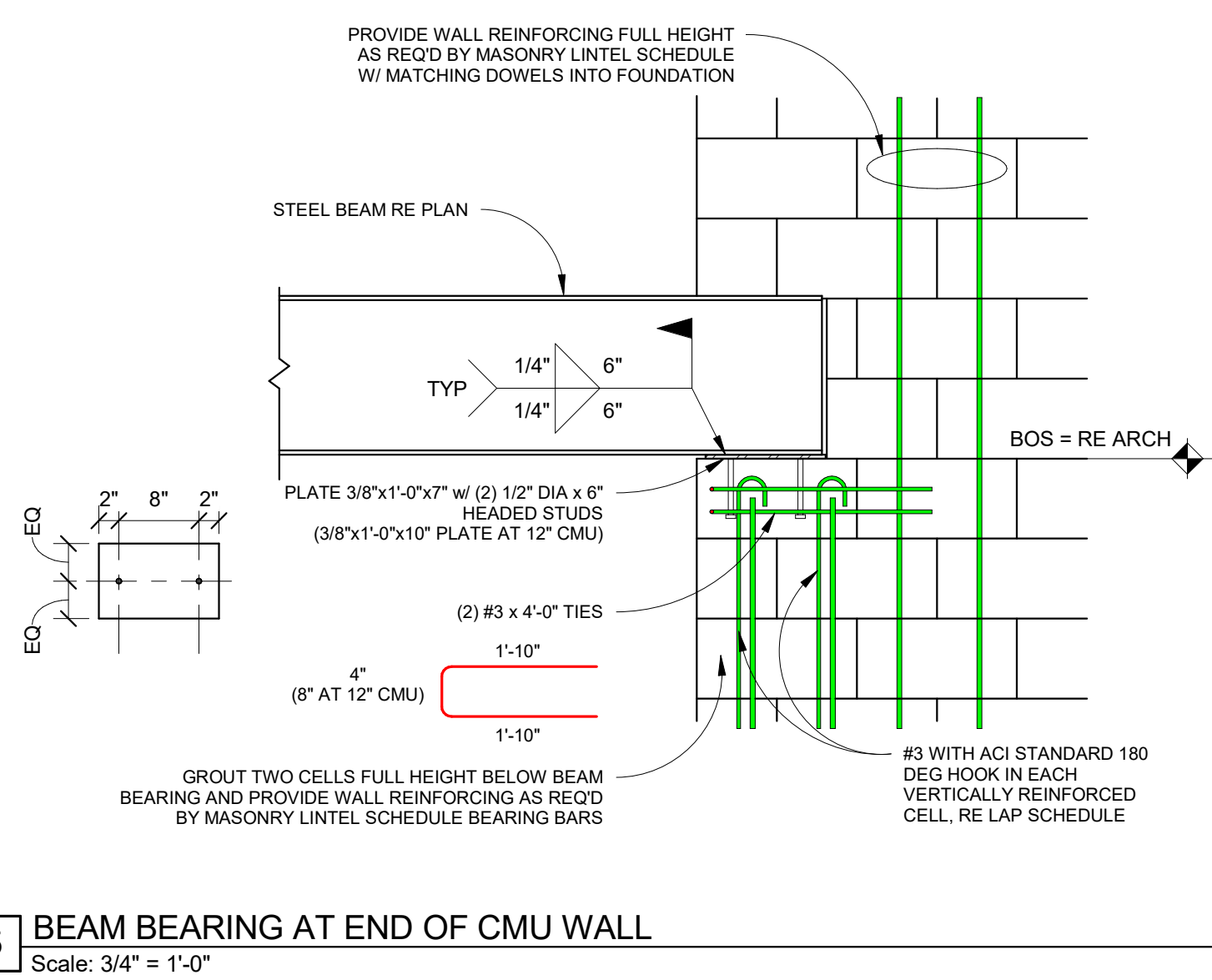
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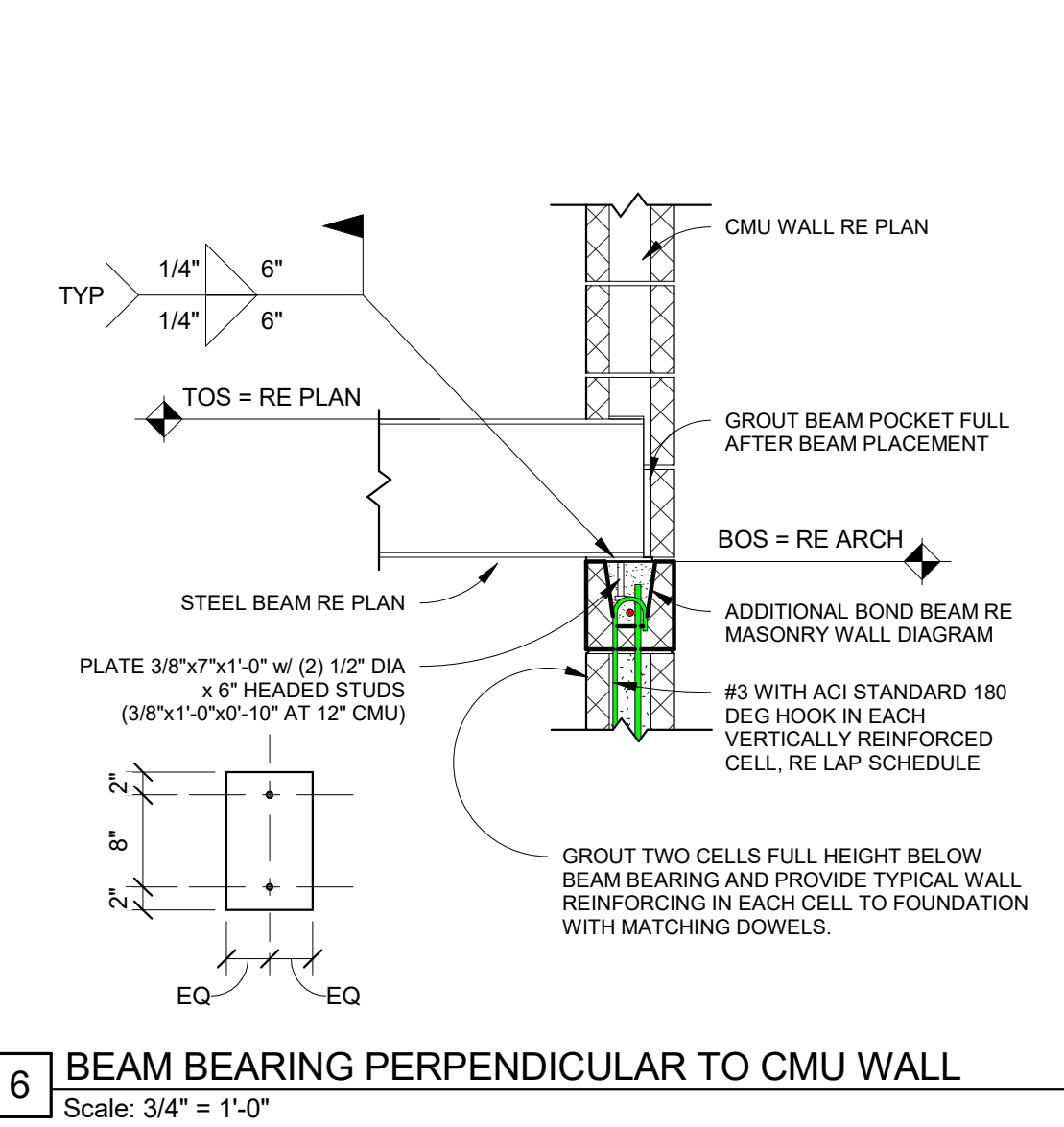
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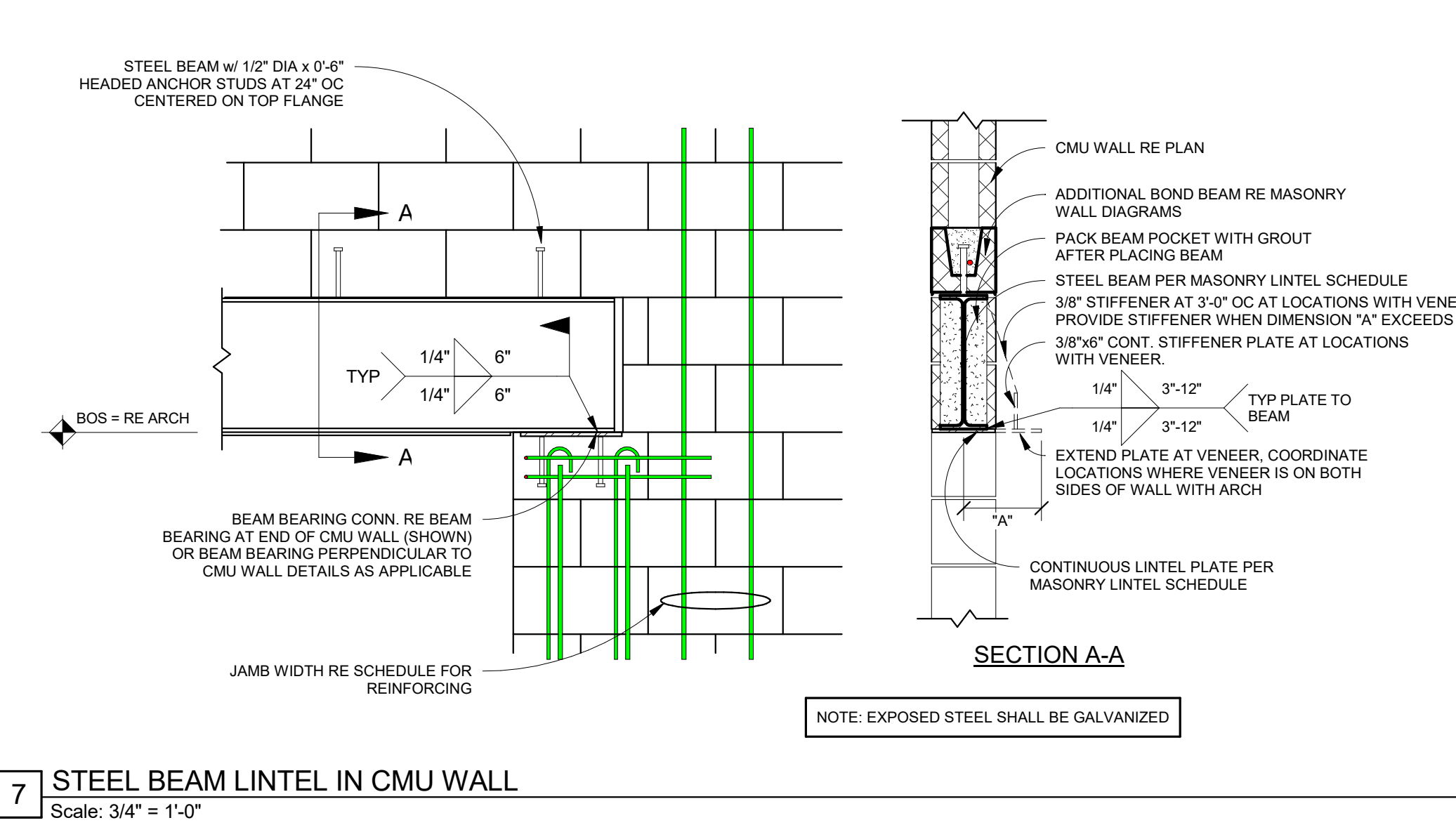
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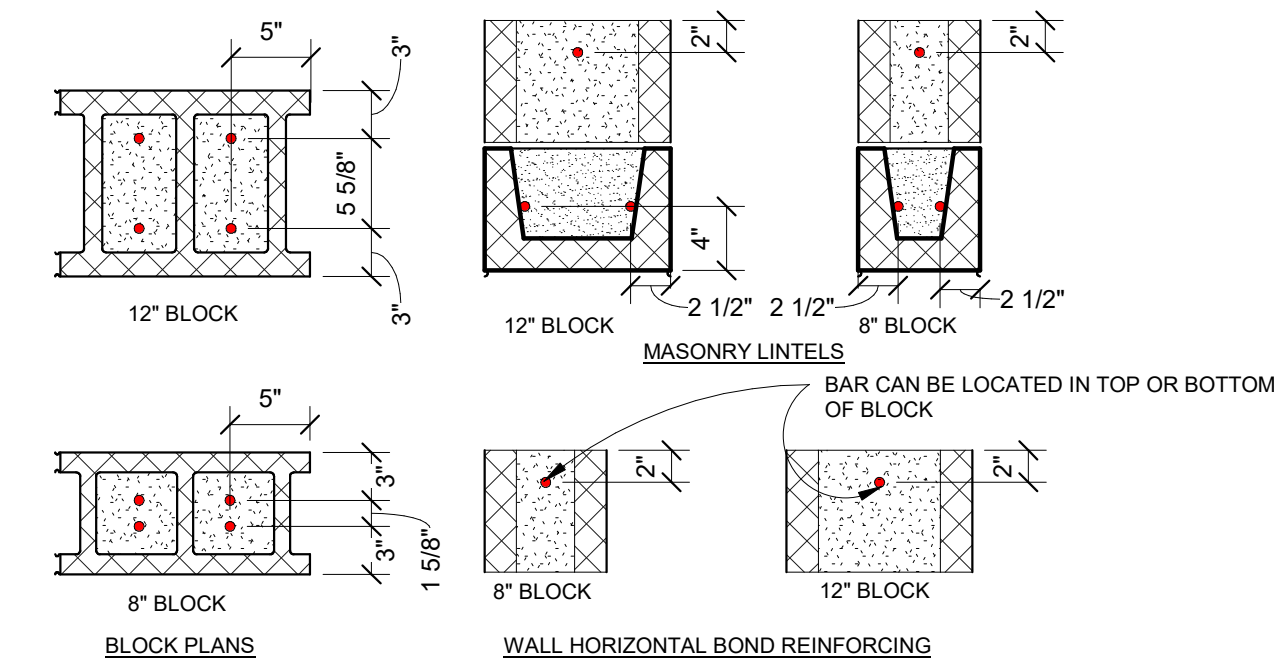
5 BEAM BEARING AT END OF CMU WALL
Scale: 3/4" = 1'-0"



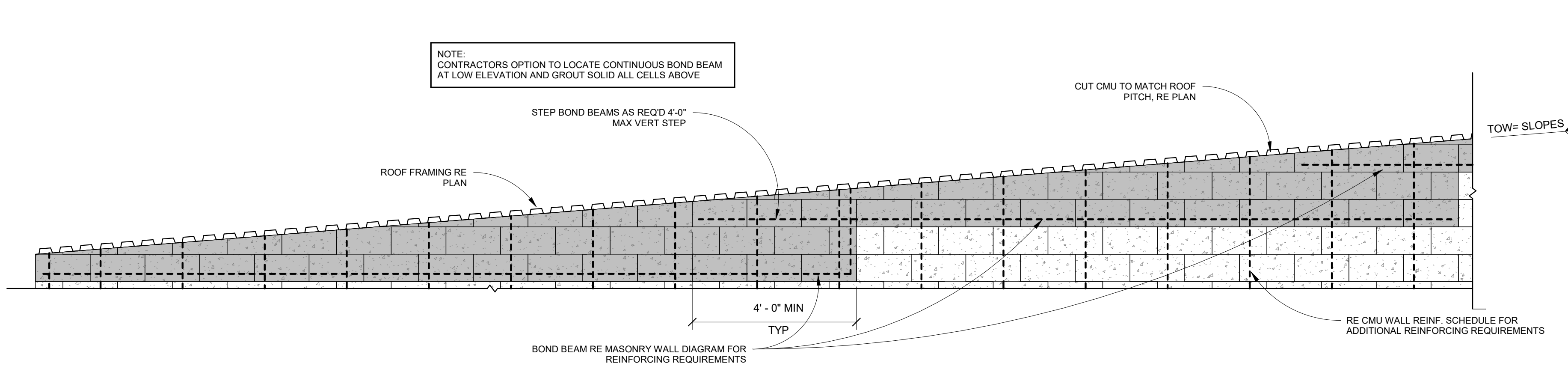
6 BEAM BEARING PERPENDICULAR TO CMU WALL
Scale: 3/4" = 1'-0"



7 STEEL BEAM LINTEL IN CMU WALL
Scale: 3/4" = 1'-0"

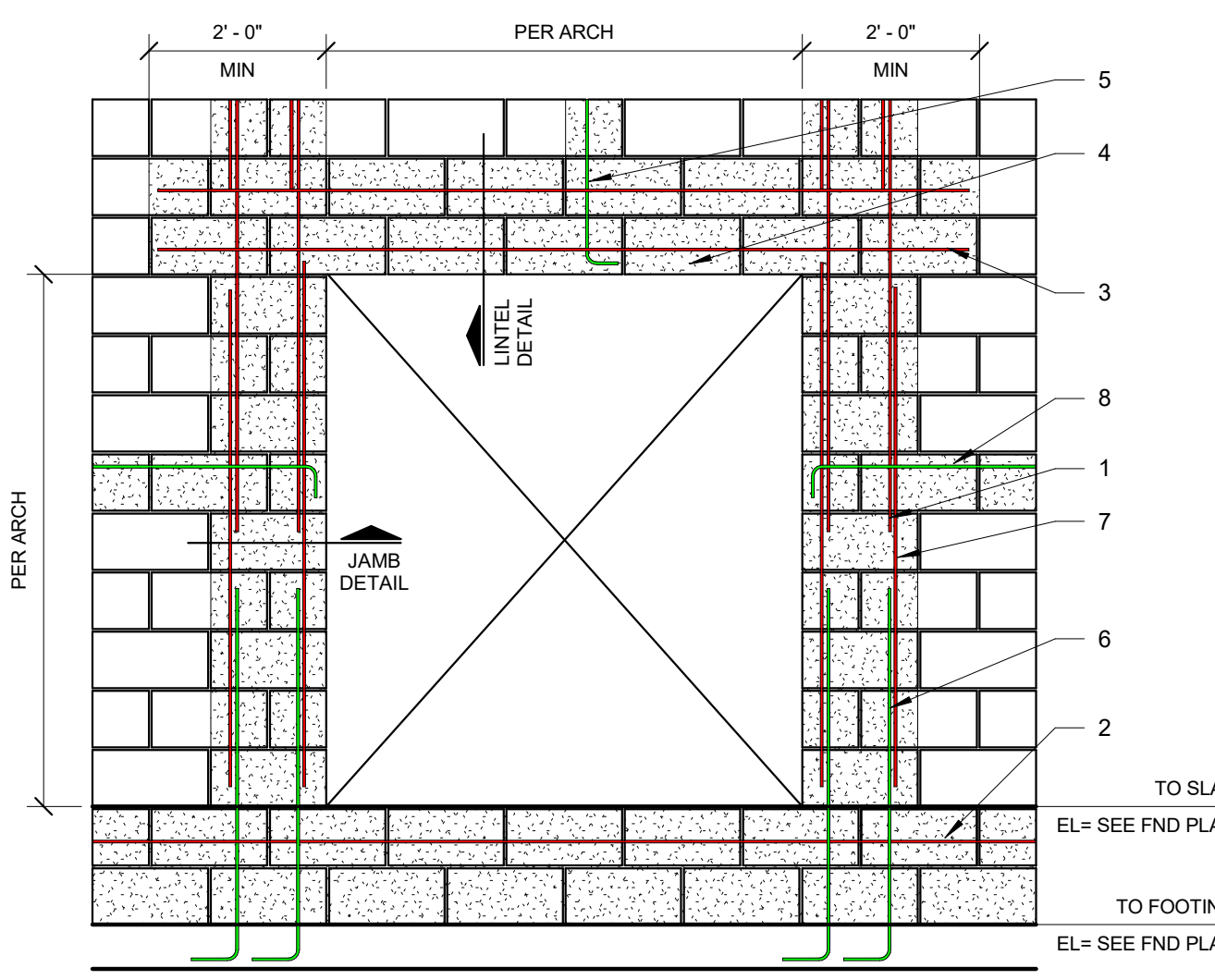


3 CMU BAR POSITIONING DETAIL
Scale: 1" = 1'-0"

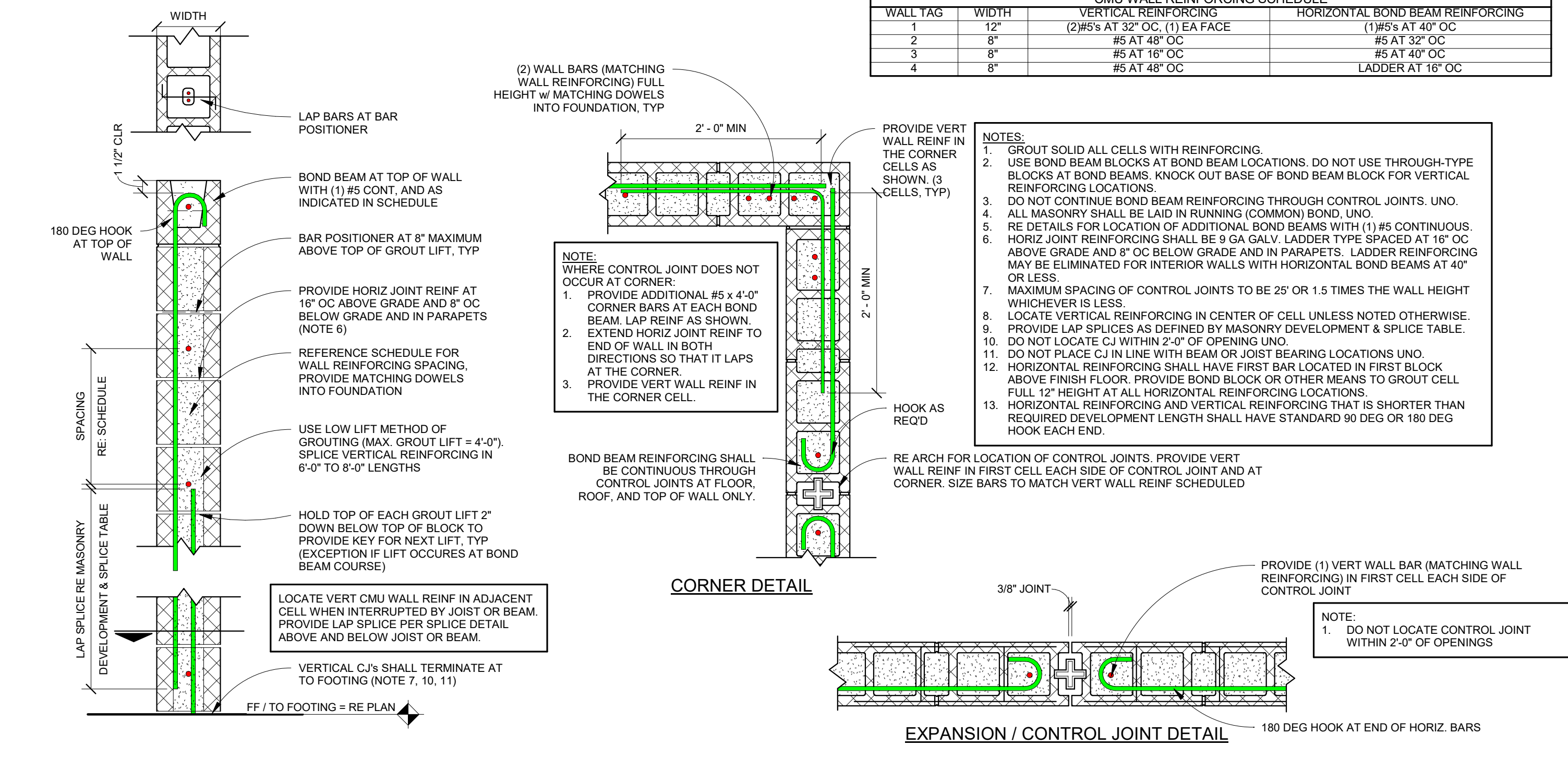
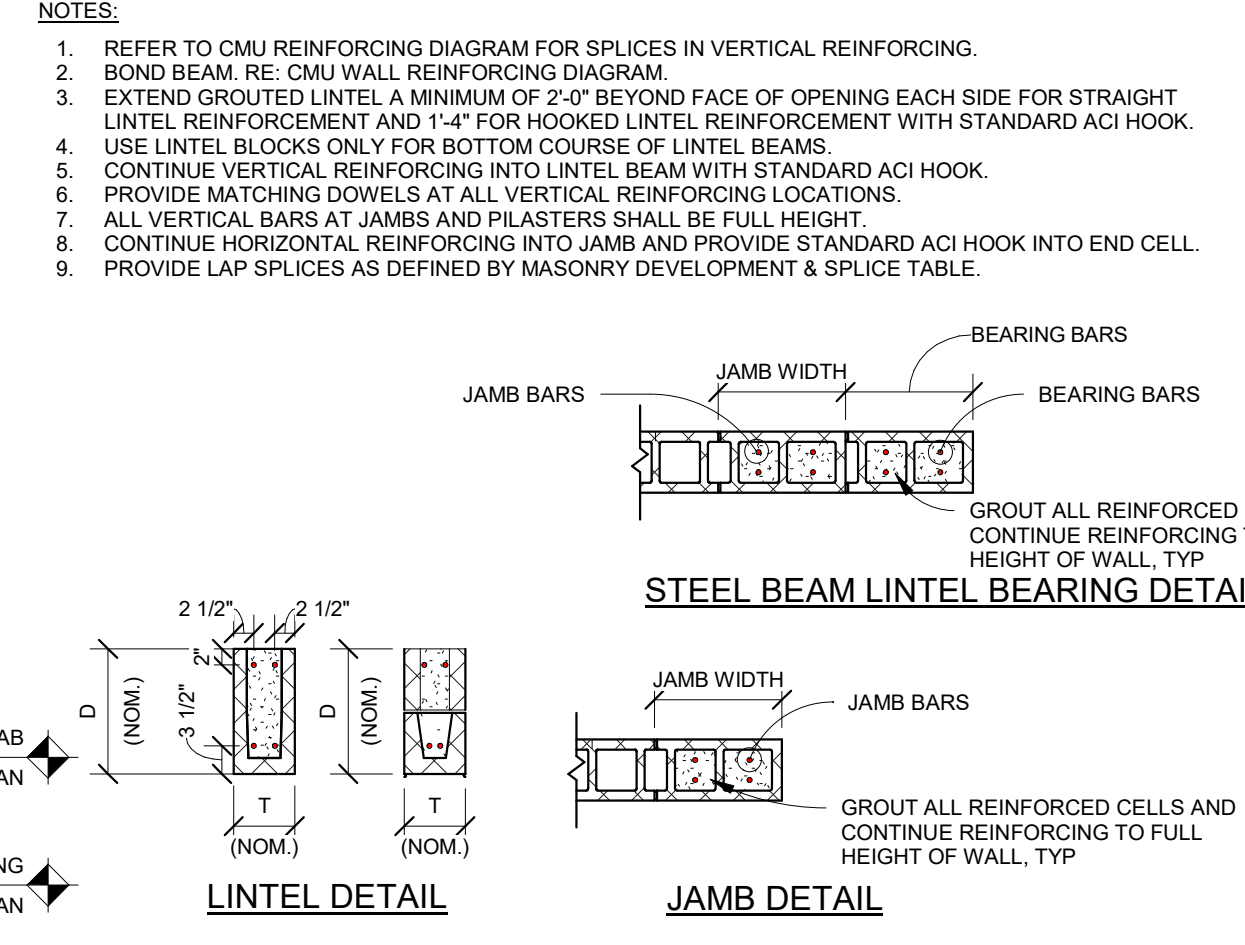


4 MASONRY END WALL DIAGRAM w/ SLOPED ROOF FRAMING
Scale: 1/2" = 1'-0"

MASONRY LINTEL SCHEDULE											
MARK	MAX CLEAR OPENING	WALL THICKNESS (T)	JAMB WIDTH	JAMB BARS EACH CELL FOR JAMB WIDTH	BEARING BAR WIDTH	JAMB BEARING BARS EACH CELL UNDER BEAM BEARING	LINTEL DEPTH (D)	HORIZONTAL BARS	STEEL BEAM	BOTTOM PLATE	DETAIL
ML-1	4'-0"	8"	8"	(2) #5 (1) EA FACE			16"	(2) #5 BOT		3/8" PLATE AS REQUIRED	3/SO.3
ML-2	8'-4"	8"	8"	(2) #5 (1) EA FACE			16"	(2) #5 TOP & BOT		3/8" PLATE AS REQUIRED	3/SO.3
ML-3	10'-8"	12"	8"	(2) #5 (1) EA FACE	8"	(2) #5 (1) EA FACE	16"	(2) #5 TOP & BOT	W16X36	3/8" PLATE AS REQUIRED	7/SO.3
ML-4	3'-4"	12"	8"	(2) #5 (1) EA FACE			16"	(2) #5 BOT		3/8" PLATE AS REQUIRED	3/SO.3
ML-5	8'-4"	8"	16"	(2) #5 (1) EA FACE			16"	(2) #5 TOP & BOT		3/8" PLATE AS REQUIRED	3/SO.3



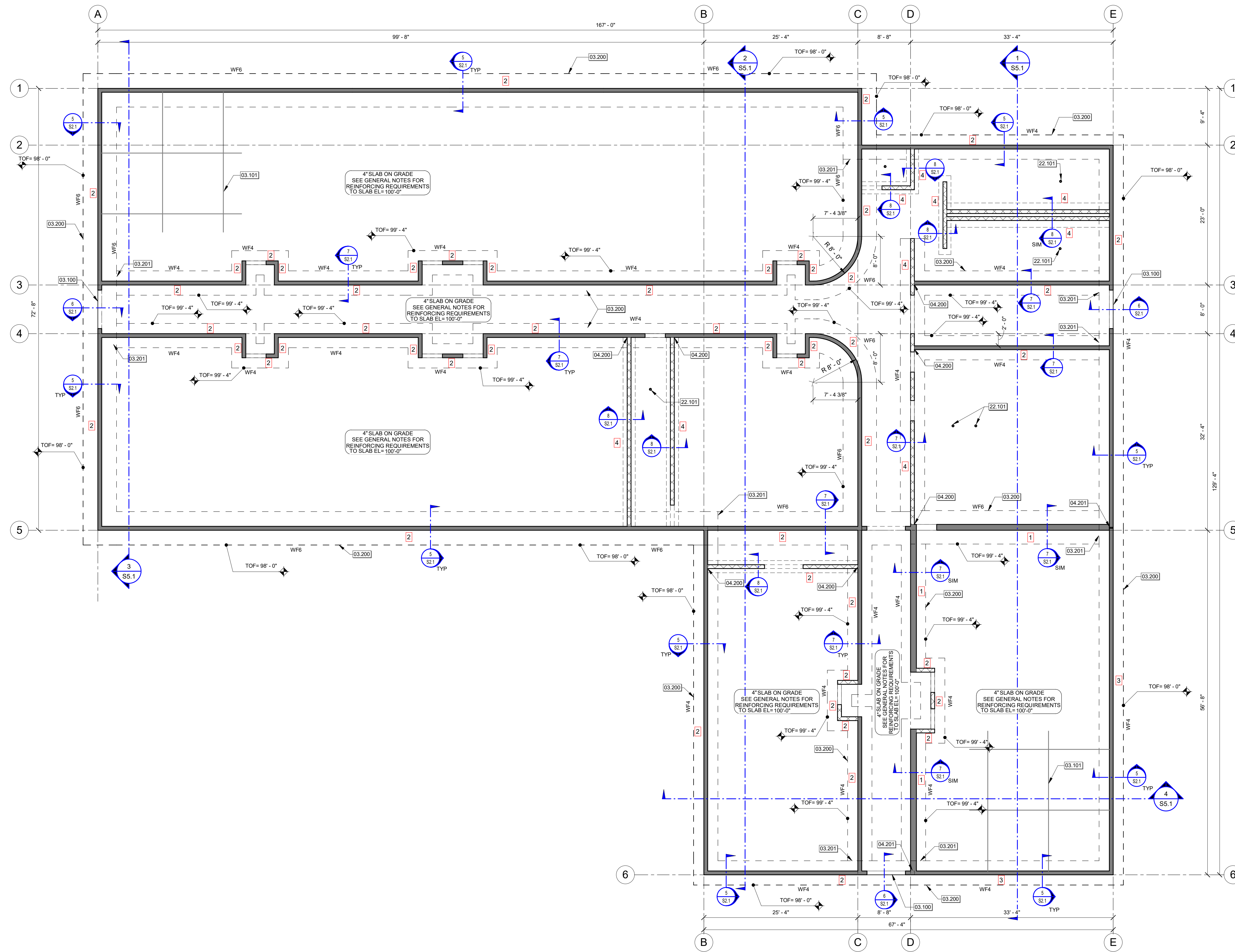
1 TYPICAL MASONRY LINTEL REINFORCING DIAGRAM
Scale: 1/2" = 1'-0"



2 MASONRY WALL DIAGRAM
Scale: 1" = 1'-0"

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1 FOUNDATION PLAN
Scale: 1/8" = 1'-0"

FOUNDATION KEYNOTES	
KEYNOTE	DESCRIPTION
03.100	DARK LINE INDICATES SLAB EDGE.
03.101	LINE INDICATES SLAB CONTROL JOINTS. REFER TO CONCRETE SLAB JOINTS DETAIL FOR REQUIREMENTS. SHOWN IN ONE BAY ONLY FOR CLARITY.
03.200	DASHED LINE INDICATES FOUNDATION BELOW.
03.201	FOOTING STEP. RE TYPICAL FOOTING STEP DETAIL. CONTRACTOR SHALL COORDINATE ACTUAL LOCATION WITH FINISH GRADE.
04.200	WHERE NON-LOAD BEARING WALLS INTERSECT LOAD BEARING WALLS DOWEL NON-LOAD BEARING WALLS INTO LOAD BEARING WALLS AT BOND BEAM LOCATIONS.
04.201	PROVIDE #5 CORNER BARS WITH MINIMUM 24" LONG LEGS AT EVERY COURSE BETWEEN 12" AND 8" CMU WALLS. ALTERNATE DIRECTION OF LEG IN 12" WALL.
22.101	FLOOR DRAIN. REFER TO PLUMBING DRAWING FOR EXACT SIZE AND LOCATION. SLOPE SLAB TO DRAIN AS REQUIRED.

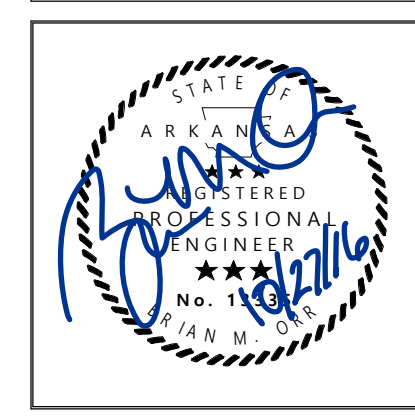
- FOUNDATION PLAN NOTES**
- TOP OF SLAB ELEVATION= 100'-0" = CIVIL ELEVATION= 394.00'
 - PERIMETER INSULATION SHALL BE AS REQUIRED BY ARCHITECTURAL DRAWINGS.
 - NOT ALL PENETRATIONS ARE SHOWN ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL COORDINATE ADDITIONAL SLAB AND FOUNDATION OPENINGS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. COORDINATE NEW AND EXISTING UTILITIES SUCH THAT THEY PASS ABOVE OR BELOW BUILDING FOOTINGS WITH A MINIMUM OF 8 INCHES OF CLEARANCE.
 - SLAB FINISH REQUIREMENTS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
 - COORDINATE ALL ELEVATIONS WITH CIVIL AND ARCH. DRAWINGS, REPORT ANY DISCREPANCIES TO ARCH.
 - ALL UNCONTROLLED FILL SHALL BE REMOVED UNDER THE BUILDING FOOTPRINT. REPLACE SOIL UNDER BUILDING FOUNDATIONS WITH APPROVED BACKFILL MATERIAL AS DEFINED BY GEOTECHNICAL ENGINEERING REPORT. AREAS WITH REMOVED UNCONTROLLED FILL UNDER NEW BUILDING SLAB SHALL BE BACKFILLED WITH MATERIAL MEETING THE REQUIREMENTS OF THE LVCL AS SPECIFIED IN THE GEOTECHNICAL ENGINEERING REPORT. THE TOP 6" OF MATERIAL UNDER ENTIRE SLAB SHALL MEET THE FREE DRAINING GRANULAR MATERIAL REQUIREMENTS AS SPECIFIED IN THE SLAB ON GRADE GENERAL NOTES.
 - PROVIDE 2'-0" LOW VOLUME CHANGE LAYER UNDER ENTIRE BUILDING FOOTPRINT. REFERENCE GENERAL NOTES AND GEOTECHNICAL ENGINEERING REPORT FOR REQUIREMENTS.
 - REFERENCE FRONT END SPECIFICATIONS FOR ALLOWANCES AND UNIT PRICES. THE ESTIMATED ALLOWANCES DO NOT INCLUDE WHAT IS REQUIRED TO CONSTRUCT THE BUILDING PAD AND LOW VOLUME CHANGE LAYER. THIS SHALL BE INCLUDED AS PART OF THE BASE BID.
 - REFERENCE TYPICAL SLAB REINFORCING DETAIL FOR SUPPLEMENTAL REINFORCING AT RE-ENTRANT CORNERS, SLAB OPENINGS, AND DOOR OPENINGS. REINFORCING SHALL BE CONTINUOUS IN ALL CONCRETE CONSTRUCTION. REFERENCE CORNER BAR REINFORCING DETAIL. THIS INCLUDES WALL REINFORCING WHERE PEDESTALS ARE INTEGRAL WITH THE WALL.

- MASONRY PLAN NOTES**
- REFER TO ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF CHASES, INSERTS, OPENINGS, SLEEVES, WASHES, DRIPS, REVEALS, AND OTHER PROJECT REQUIREMENTS THAT AFFECT MASONRY WORK. COMBINE THE REQUIREMENTS INTO THE SHOP DRAWINGS AND PROVIDE STRUCTURAL FRAMING CONSISTENT WITH TYPICAL DETAILS AS REQUIRED AT WALL OPENINGS WHERE STRUCTURAL FRAMING IS NOT SPECIFICALLY SHOWN.
 - ALL OPENINGS THROUGH MASONRY SHALL BE SHOWN ON THE SHOP DRAWINGS. OPENINGS WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE SUBJECT TO REVIEW AND ACCEPTANCE AND SHALL BE CLEARLY INDICATED FOR REVIEW AND ACCEPTANCE ON THE SHOP DRAWINGS.
 - ALL UN TAGGED NON-LOAD BEARING WALLS SHALL BE WALL TAG 4. REFER TO MASONRY WALL DIAGRAM SCHEDULE.
 - ALL OPENINGS IN MASONRY SHALL HAVE A LINTEL AS DEFINED BY THE MASONRY LINTEL SCHEDULE BASED ON WIDTH OF OPENING. ALL HEAD AND SILL HEIGHTS SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
 - ALL LINTELS MAY NOT BE INDICATED ON PLANS. CONTRACTOR SHALL SIZE LINTELS DEFINED BY MASONRY LINTEL SCHEDULE FOR NON-LOAD BEARING WALLS

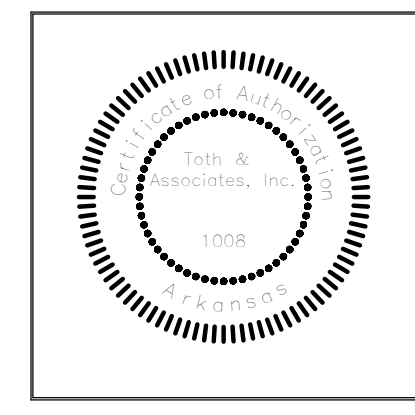
WALL LEGEND

	- REPRESENTS CMU BEARING WALL. RE PLAN FOR WALL TYPE.
	- REPRESENTS 8" CMU NON BEARING WALL, U.N.O.

No.	Date	Description



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AR# 13335



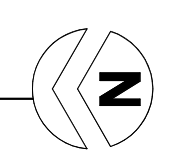
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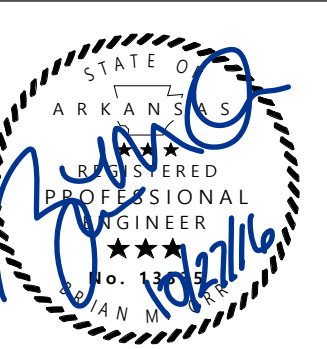
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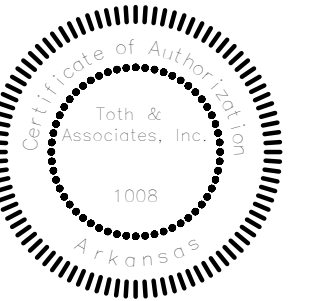
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 JOB NO: 12-028
 SHEET: **S1.1**
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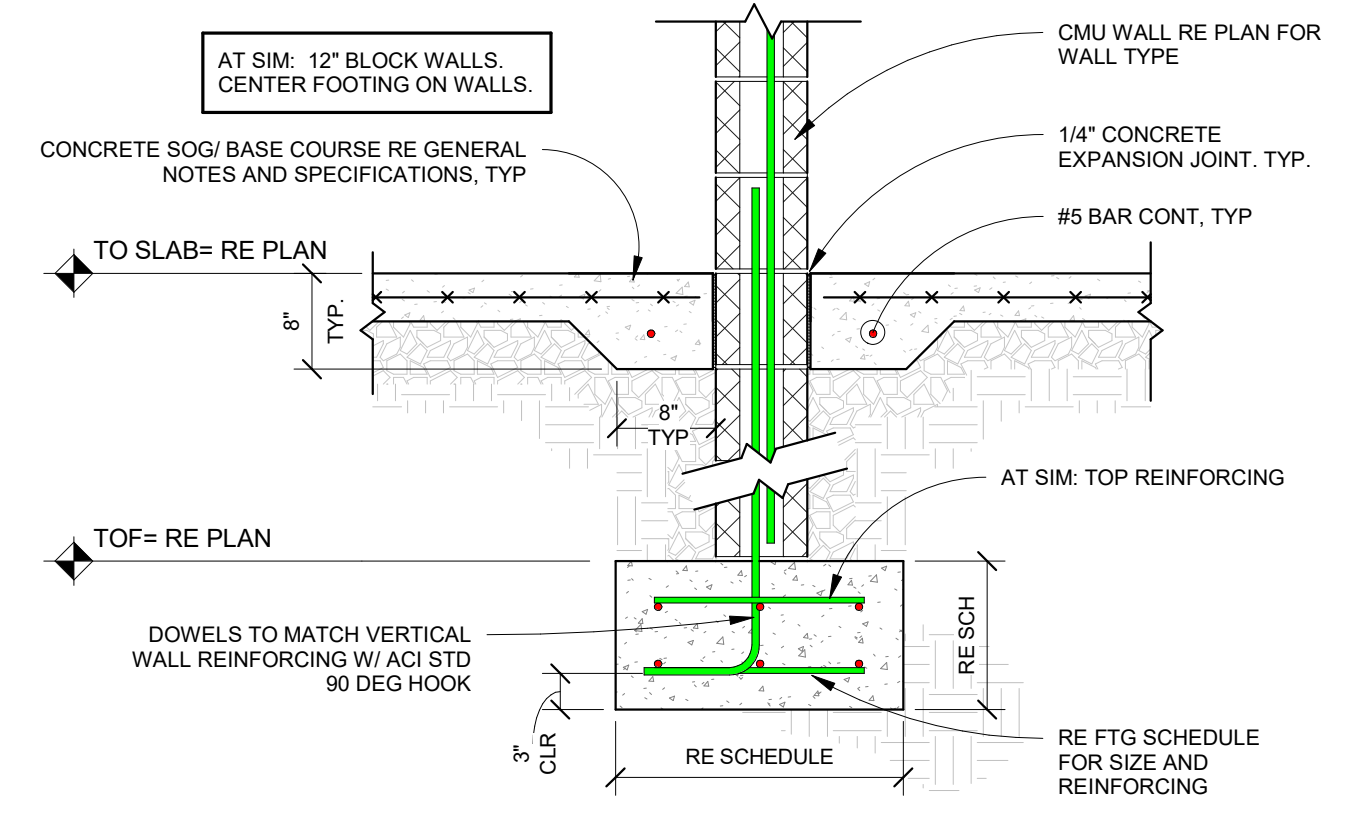
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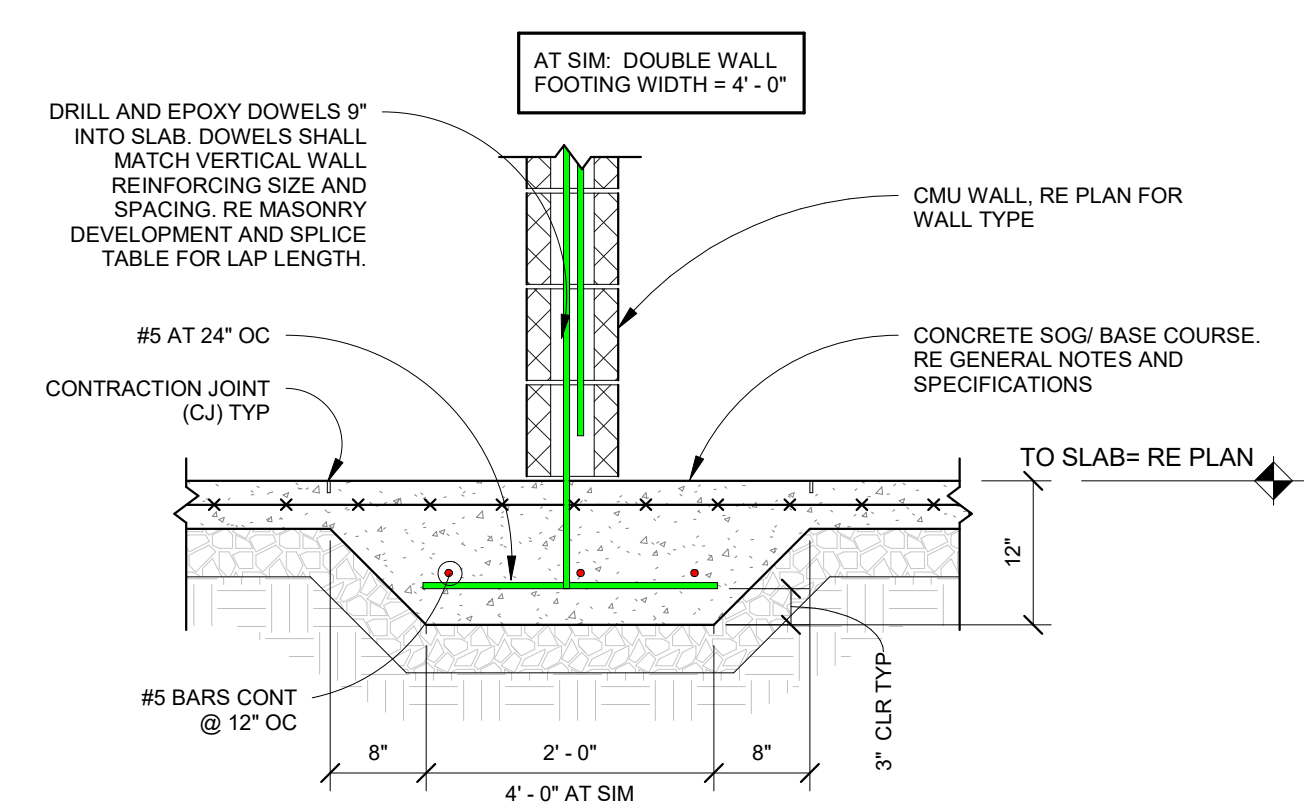
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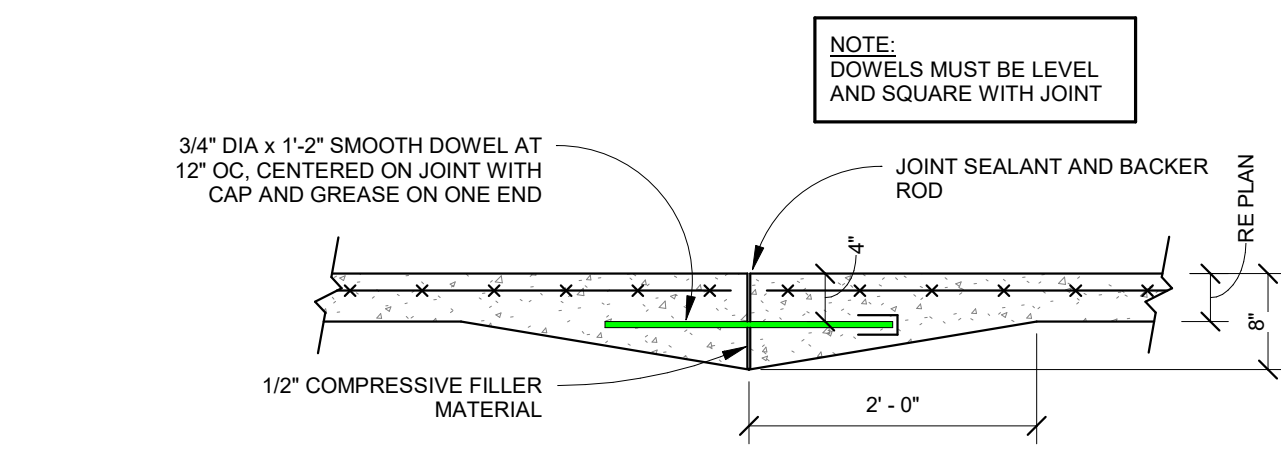
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JOB NO: 12-028
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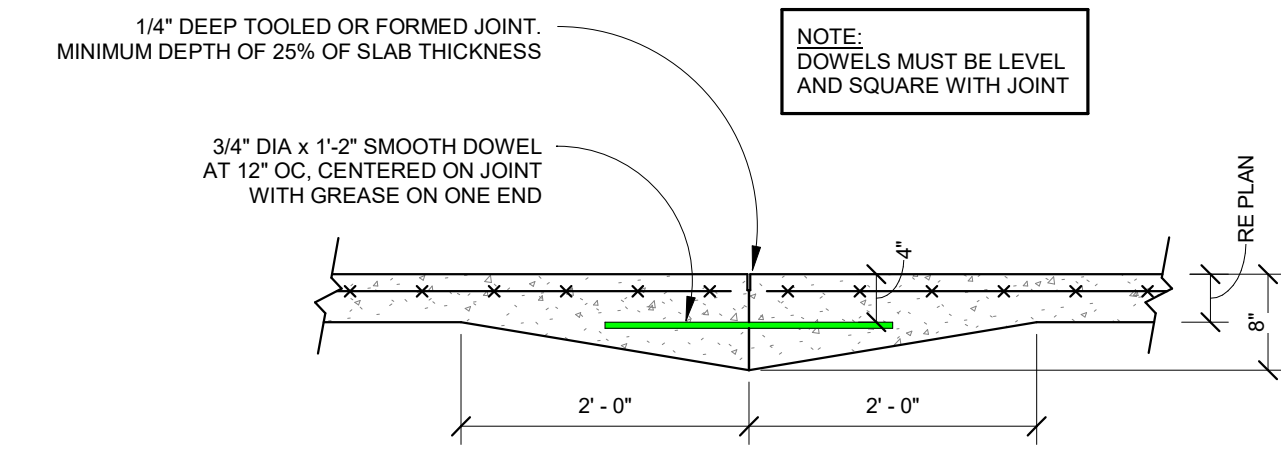
7 CMU INTERIOR WALL FOUNDATION
Scale: 3/4" = 1'-0"



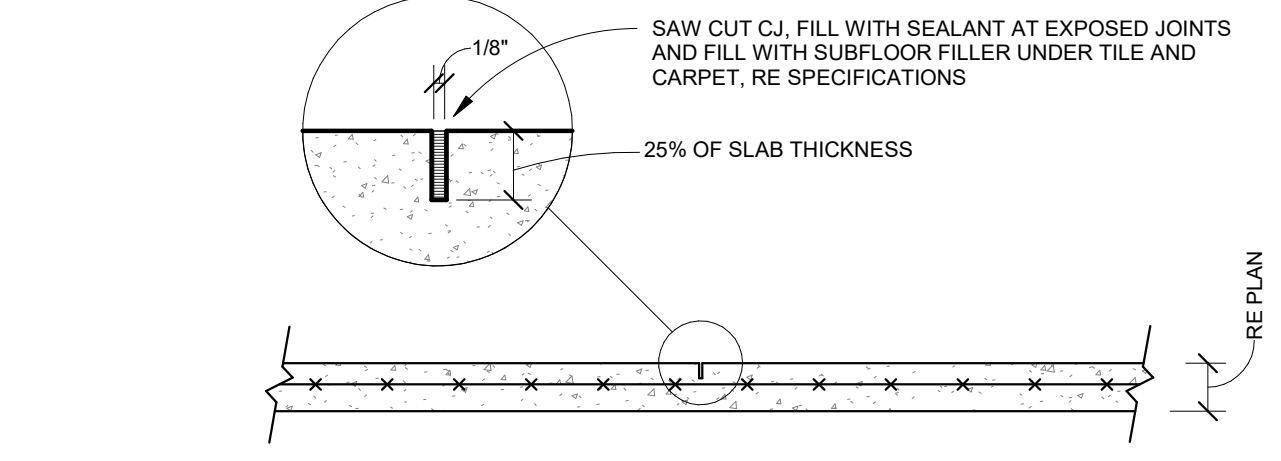
8 THICKENED SLAB AT CMU
Scale: 3/4" = 1'-0"



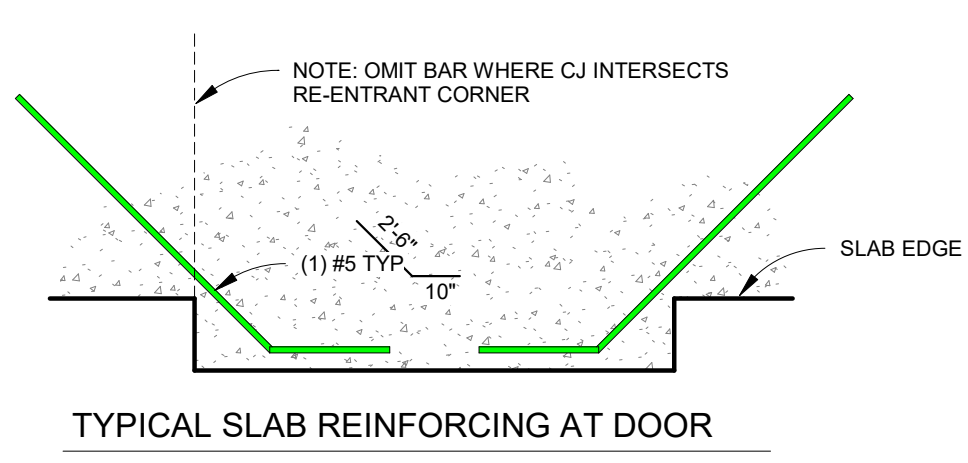
1 CONCRETE SLAB JOINTS
Scale: 3/4" = 1'-0"



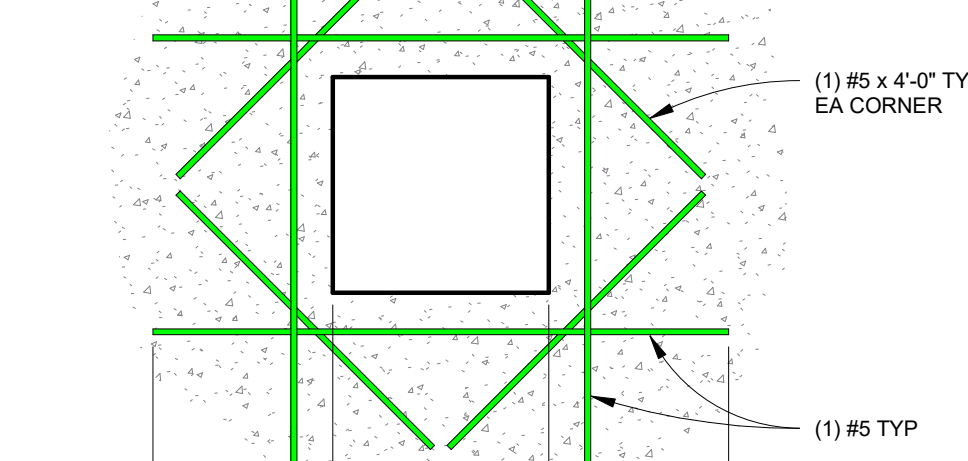
2 TYPICAL SLAB REINFORCING
Scale: 3/4" = 1'-0"



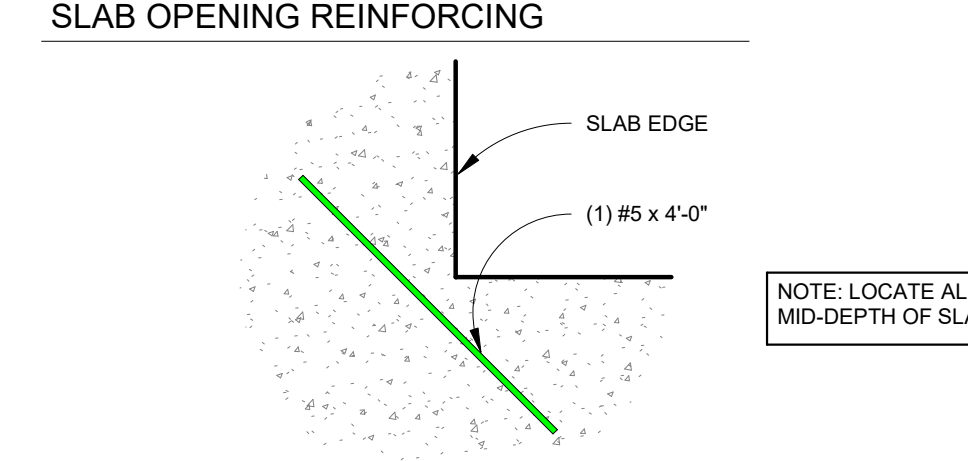
3 CORNER BAR REINFORCING
Scale: 3/4" = 1'-0"



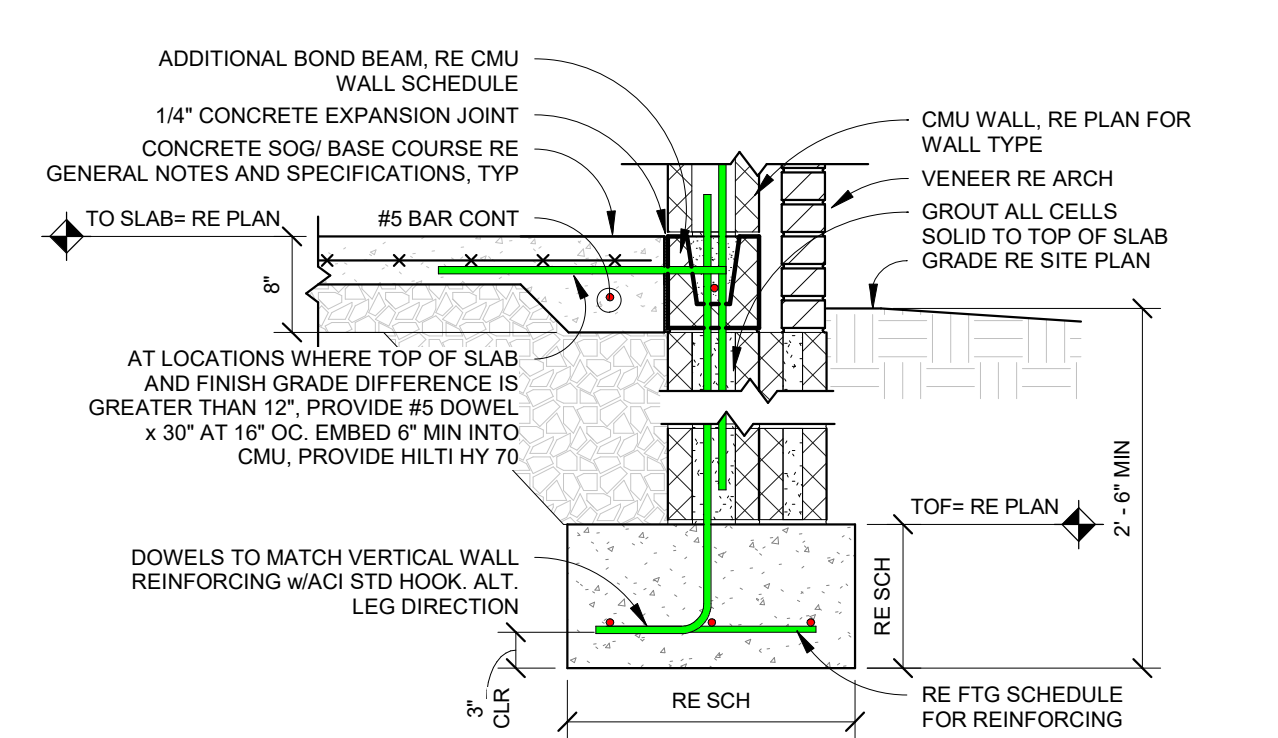
4 TYPICAL FOOTING STEP
Scale: 3/4" = 1'-0"



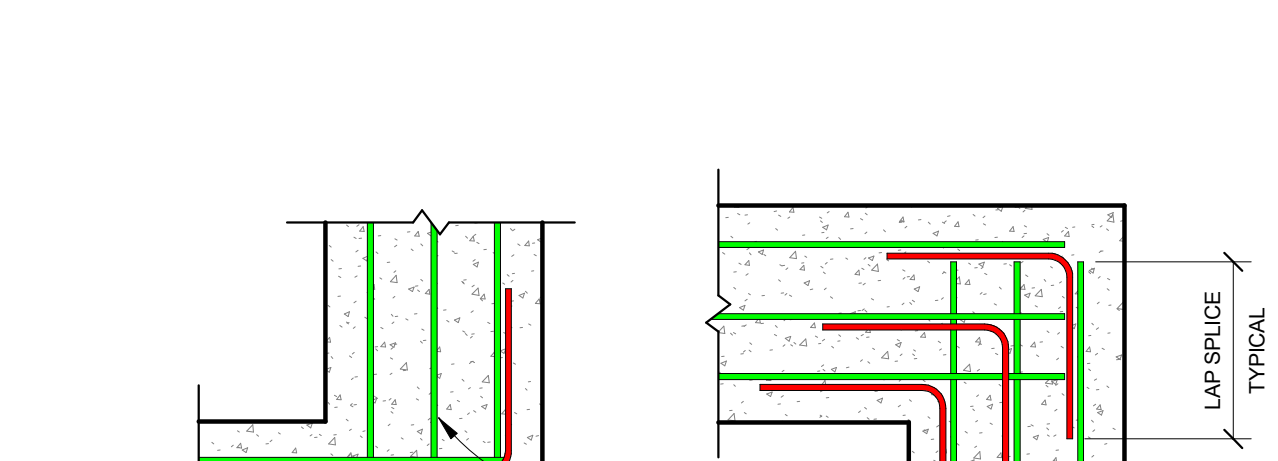
5 CMU EXTERIOR WALL FOUNDATION
Scale: 3/4" = 1'-0"



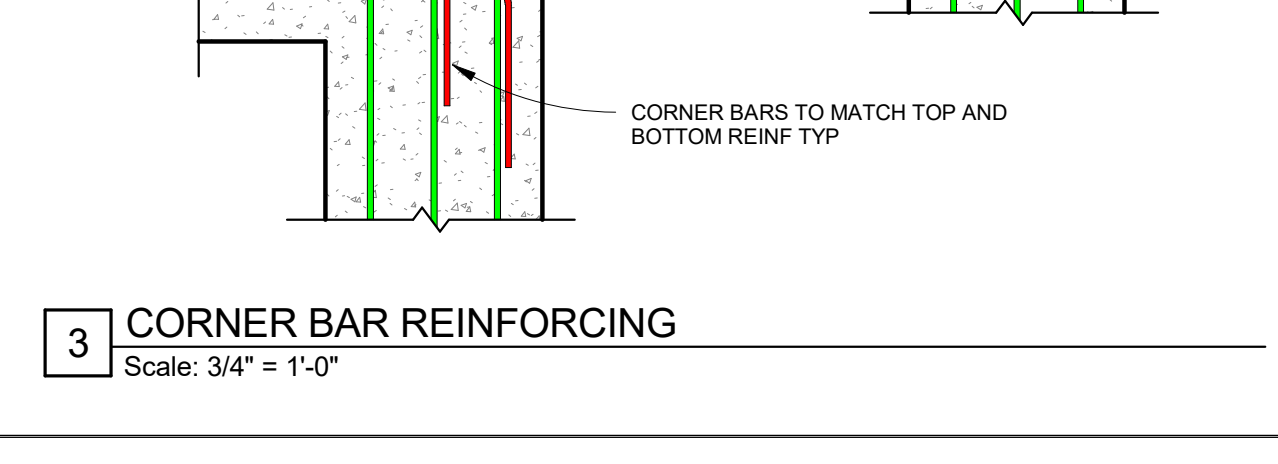
6 CMU EXTERIOR CMU WALL FOUNDATION
Scale: 3/4" = 1'-0"



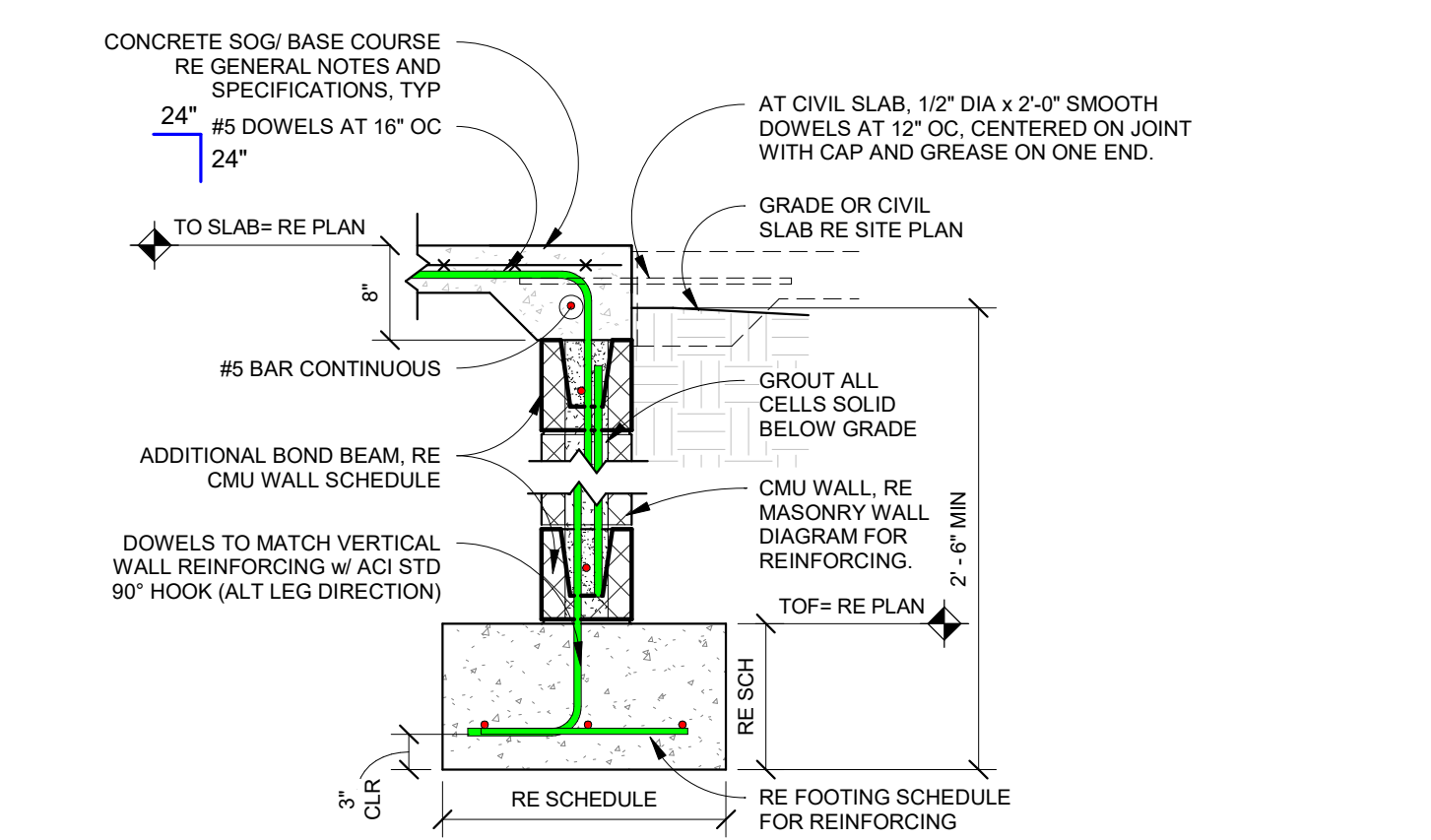
7 EXPANSION JOINT (EXP JOINT)
Scale: 3/4" = 1'-0"



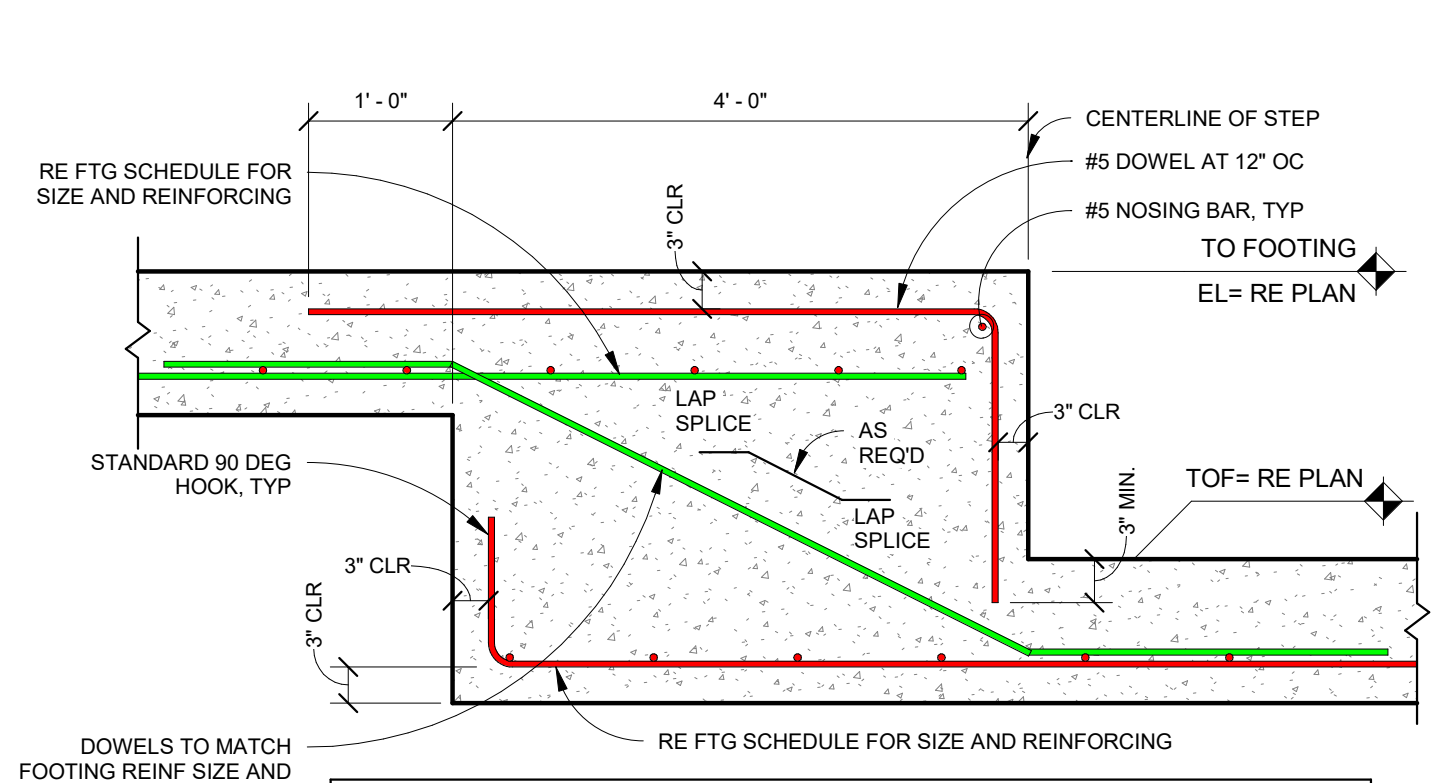
8 CONSTRUCTION JOINT (CONST JOINT)
Scale: 3/4" = 1'-0"



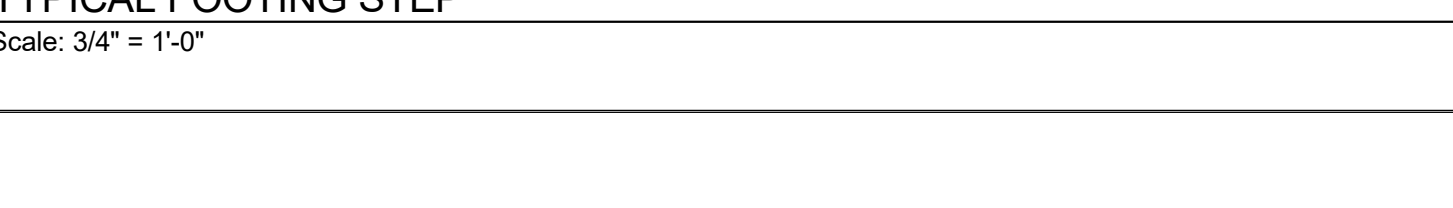
9 RE-ENTRANT CORNER REINFORCING
Scale: 3/4" = 1'-0"



10 TYPICAL SLAB REINFORCING AT DOOR
Scale: 3/4" = 1'-0"



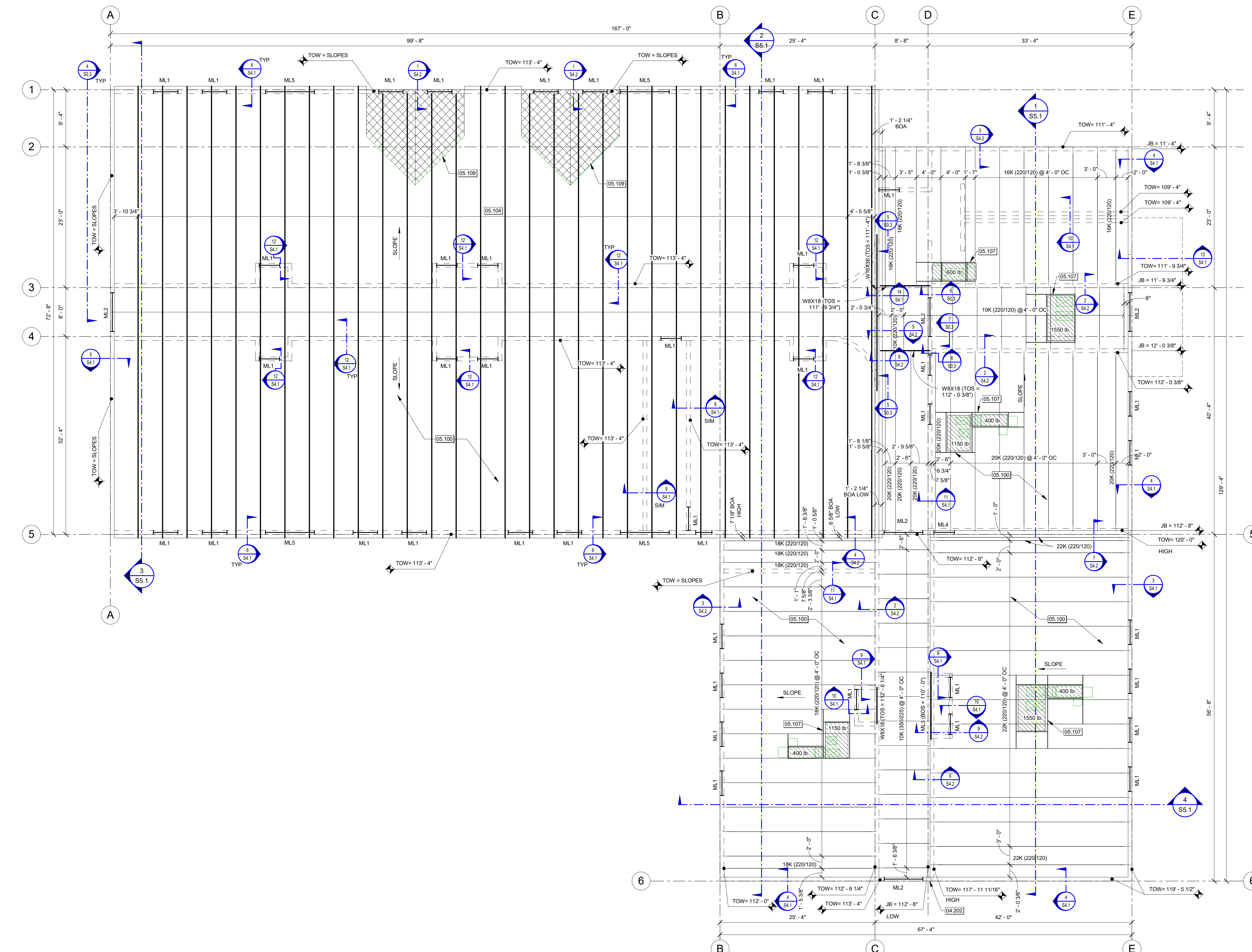
11 SLAB OPENING REINFORCING
Scale: 3/4" = 1'-0"



12 RE-ENTRANT CORNER REINFORCING
Scale: 3/4" = 1'-0"

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FRAMING KEYNOTES	
KEYNOTE	DESCRIPTION
04.202	TOP OF WALL STEPS AT THIS LOCATION
05.104	PRE-ENGINEERED LIGHT GAGE TRUSS AT 4'-0" ON CENTER UNO
05.107	PROVIDE 1.5X3X1/4 (LVL) H-FRAME AROUND OPENING AND BELOW RTU CURB, WELD TO ROOF JOISTS, BEAMS, AND GIRDERS W/ 1/8" FILLET WELDS AT EACH END. REINFORCE JOISTS PER TYPICAL JOIST REINFORCING DETAIL AS REQUIRED.

HATCH LEGEND

REPRESENTS PRE-ENGINEERED LIGHT GAGE TRUSS OVERBUILD BY LIGHT GAGE TRUSS SUPPLIER. METAL DECK SHALL BE CONTINUOUSLY SUPPORTED AT 4'-0" OC MAX.

- FRAMING PLAN NOTES**
- ALL ELEVATIONS, DOOR LOCATIONS, OPENING WIDTHS, HEAD AND SILL HEIGHTS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
 - MECHANICAL EQUIPMENT WEIGHTS AND LOCATIONS ARE ESTIMATES ONLY. GC COORDINATE EXACT WEIGHT AND LOCATIONS WITH EQUIPMENT PROVIDER. JOIST PROVIDER TO DESIGN ASSOCIATED JOISTS FOR ADDITIONAL LOADS DUE TO MECHANICAL EQUIPMENT.
 - PROVIDE ANGLE SUPPORT FRAME FOR ALL DECK OPENINGS GREATER THAN 10 INCHES SQUARE. THIS INCLUDES ROOF DRAIN PENETRATIONS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF PARTITION WALL ELEVATIONS. BRACE TOPS OF WALLS IN ACCORDANCE WITH TYPICAL DETAILS.
 - PROVIDE A STEEL LINTEL IN ACCORDANCE WITH THE LOOSE LINTEL SCHEDULE AT ALL OPENINGS IN MASONRY VENEER.
 - COORDINATE FIREPROOFING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
 - PROVIDE JOIST BRIDGING AS REQUIRED BY THE JOIST PROVIDER. GC COORDINATE BRIDGING LOCATIONS WITH OTHER TRADES.
 - MECHANICAL HANGERS AND OTHER ITEMS SUPPORTED FROM FLOOR OR ROOF FRAMING ARE TO BE SUPPORTED FROM JOIST PANEL POINTS ONLY. REFER TO JOIST REINFORCING DETAIL FOR ADDITIONAL INFORMATION.
 - AT ALL LIGHT GAGE TRUSS RIDGES, VALLEYS, AND HIPS AN 1/8" x 8" CONT. PLATE (BENT TO MATCH ROOF PROFILE) SHALL BE PROVIDED. ATTACH PLATE TO EACH TRUSS W/ (4) - #12 TEK SCREWS TYP. ATTACH DECK TO PLATE PER ROOF DIAPHRAGM CONNECTION DIAGRAM.
 - COORDINATE ALL ROOF OVERHANG DIMENSIONS WITH ARCH.
 - ALL ROOF DECK BEARING CONDITIONS SHALL HAVE 1 1/2" MIN BEARING WIDTH AT EXTERIOR SUPPORTS AND 0" AT INTERIOR SUPPORTS IN ACCORDANCE WITH SDI REQUIREMENTS. TRUSS SUPPLIER SHALL PROVIDE ADDITIONAL MEMBERS, PLATES, FILLERS ETC AS REQUIRED.

No.	Date	Description

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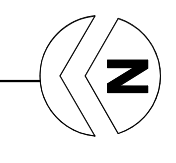
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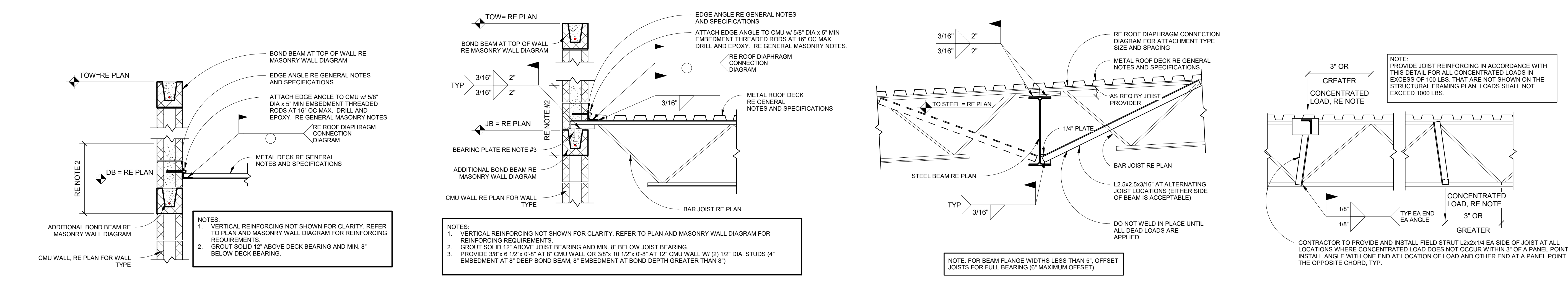
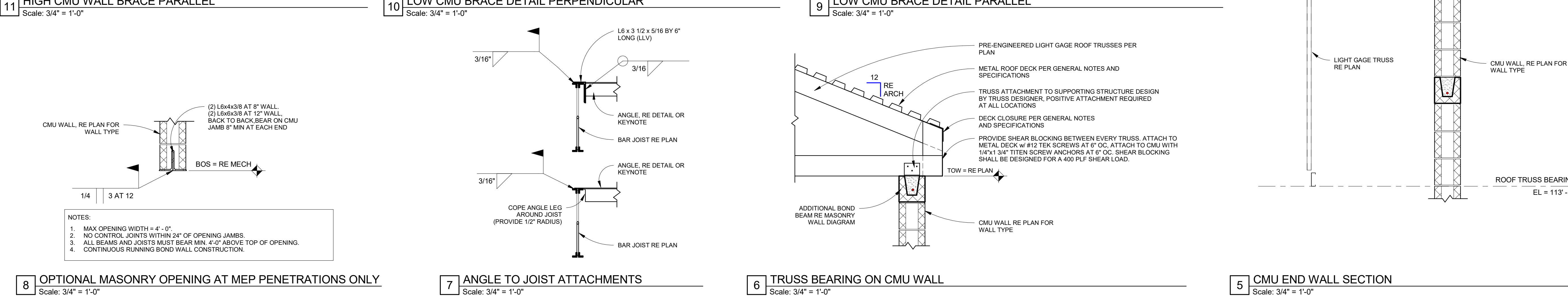
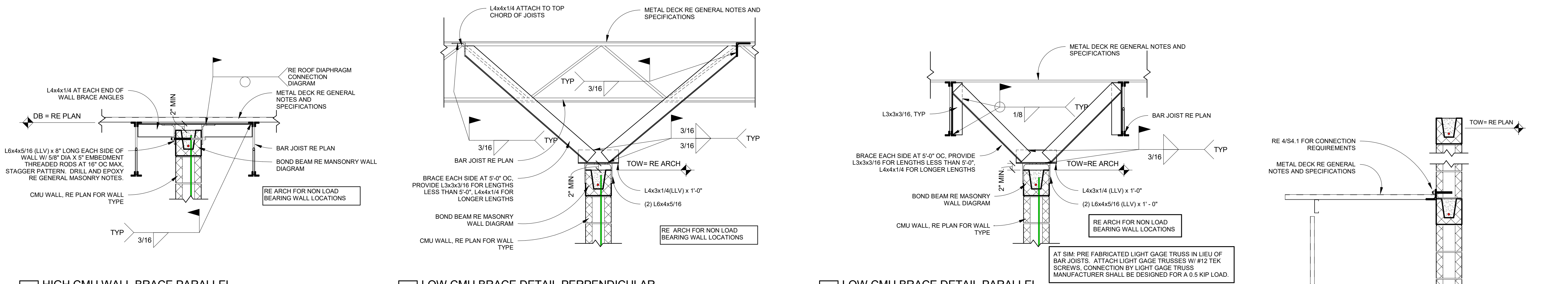
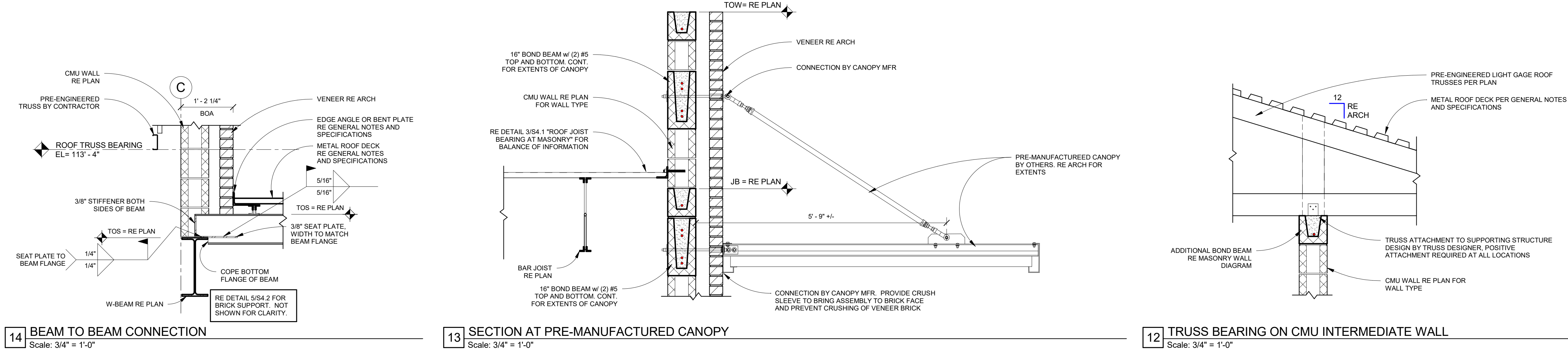
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DATE
10-27-2016
 SHEET TITLE
ROOF LEVEL FRAMING PLAN
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12-028
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1 ROOF FRAMING PLAN
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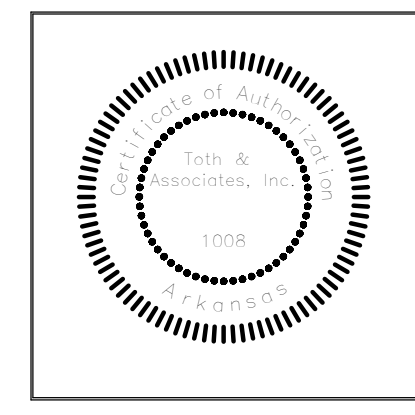
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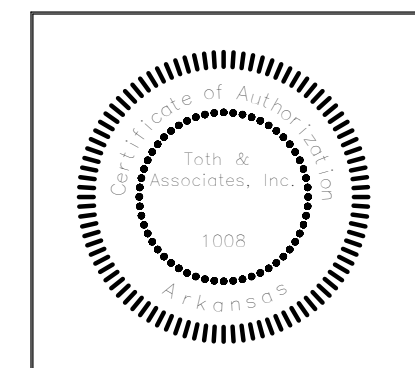
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DATE: 10-27-2016
SHEET TITLE: FRAMING DETAILS
JOB NO.: 12-028
SHEET: S4.1
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No.	Date	Description



Brian M. Orr, Engineer
AR# 13335



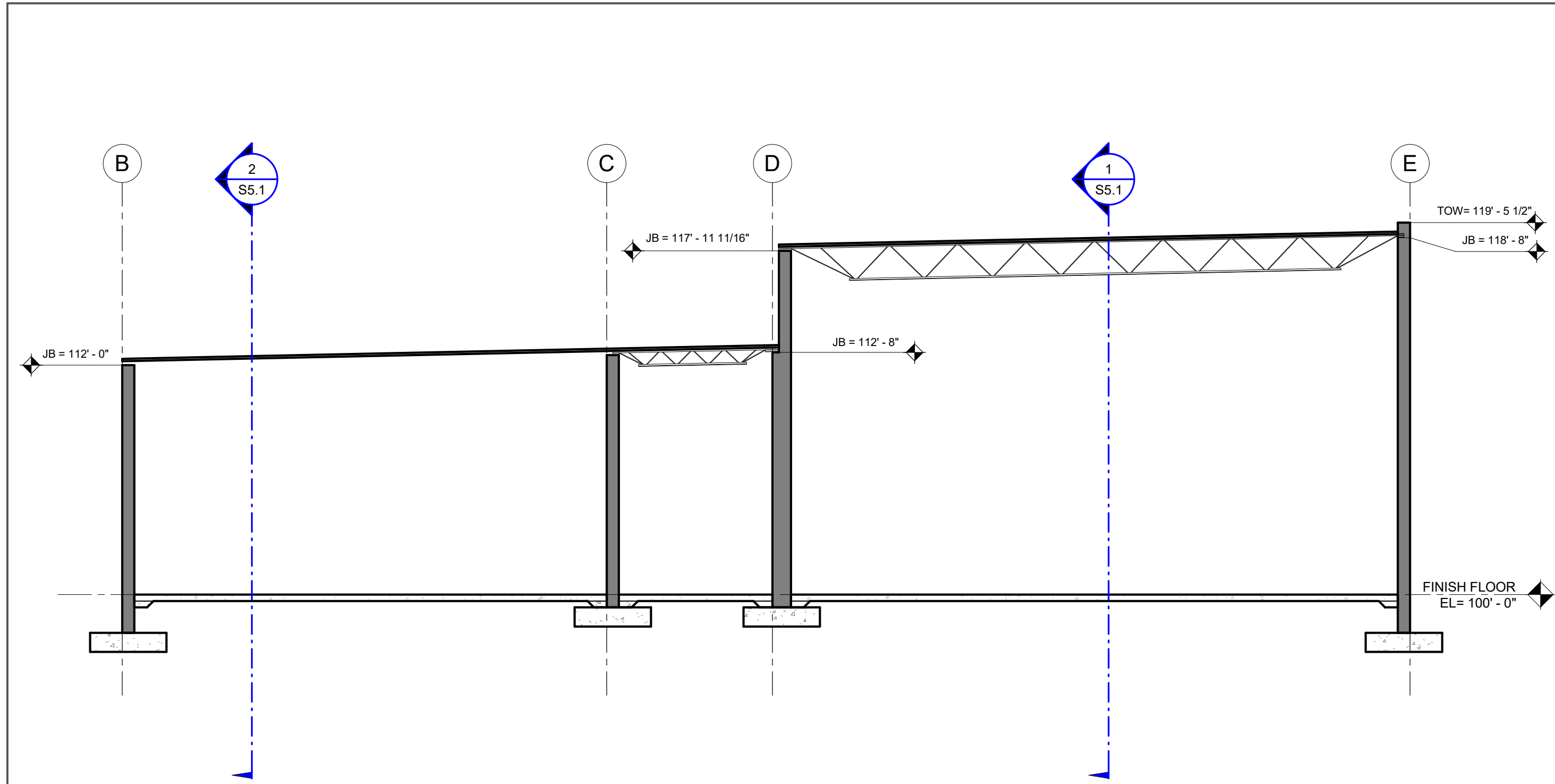
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TOTH & ASSOCIATES
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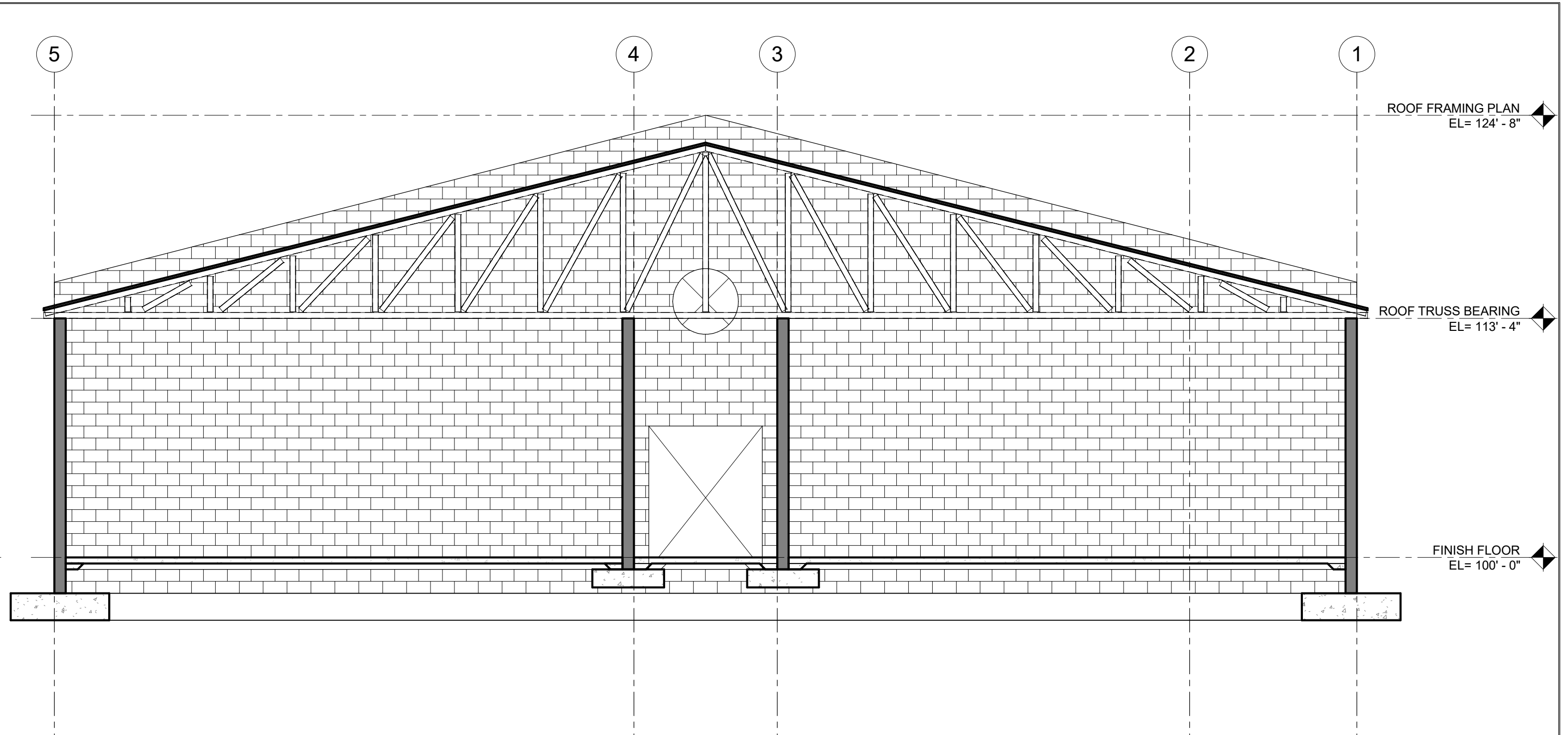
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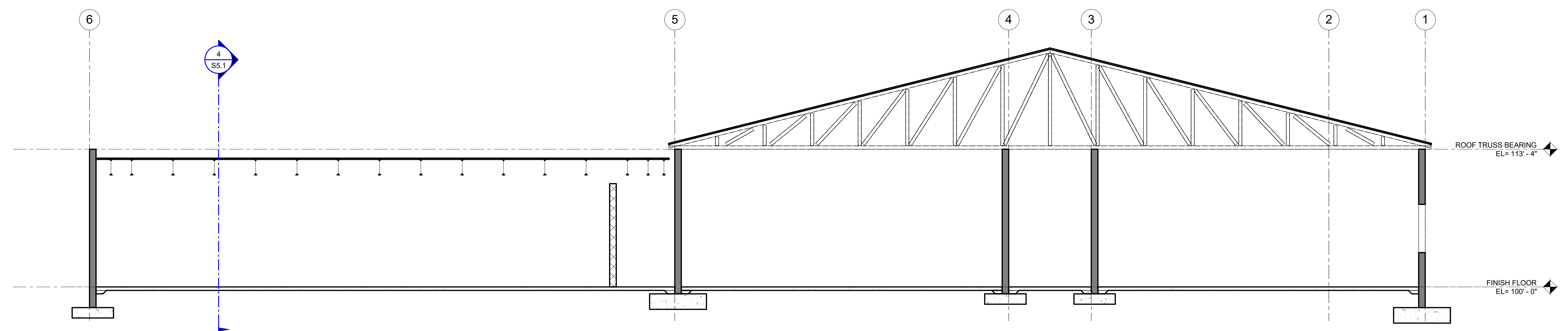
DATE: 10-27-2016
 SHEET TITLE: BUILDING SECTIONS
 JOB NO.: 12-028
 SHEET: **S5.1**
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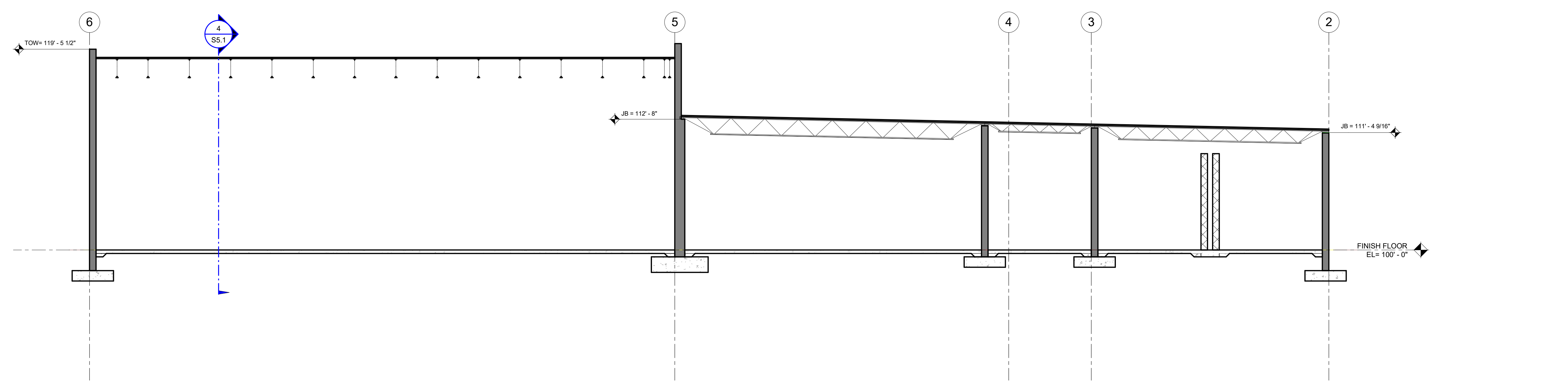
4 NORTH-SOUTH SECTION NEAR GRID 6
 Scale: 3/16" = 1'-0"



3 EAST-WEST SECTION AT GRID A
 Scale: 3/16" = 1'-0"



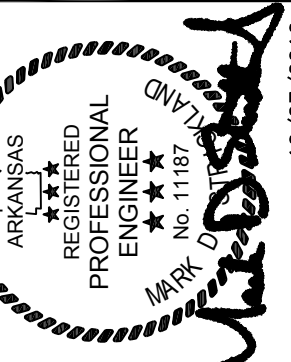
2 EAST-WEST SECTION BETWEEN GRID B & C
 Scale: 3/16" = 1'-0"



1 EAST-WEST SECTION BETWEEN GRID C & D
 Scale: 3/16" = 1'-0"

NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT.

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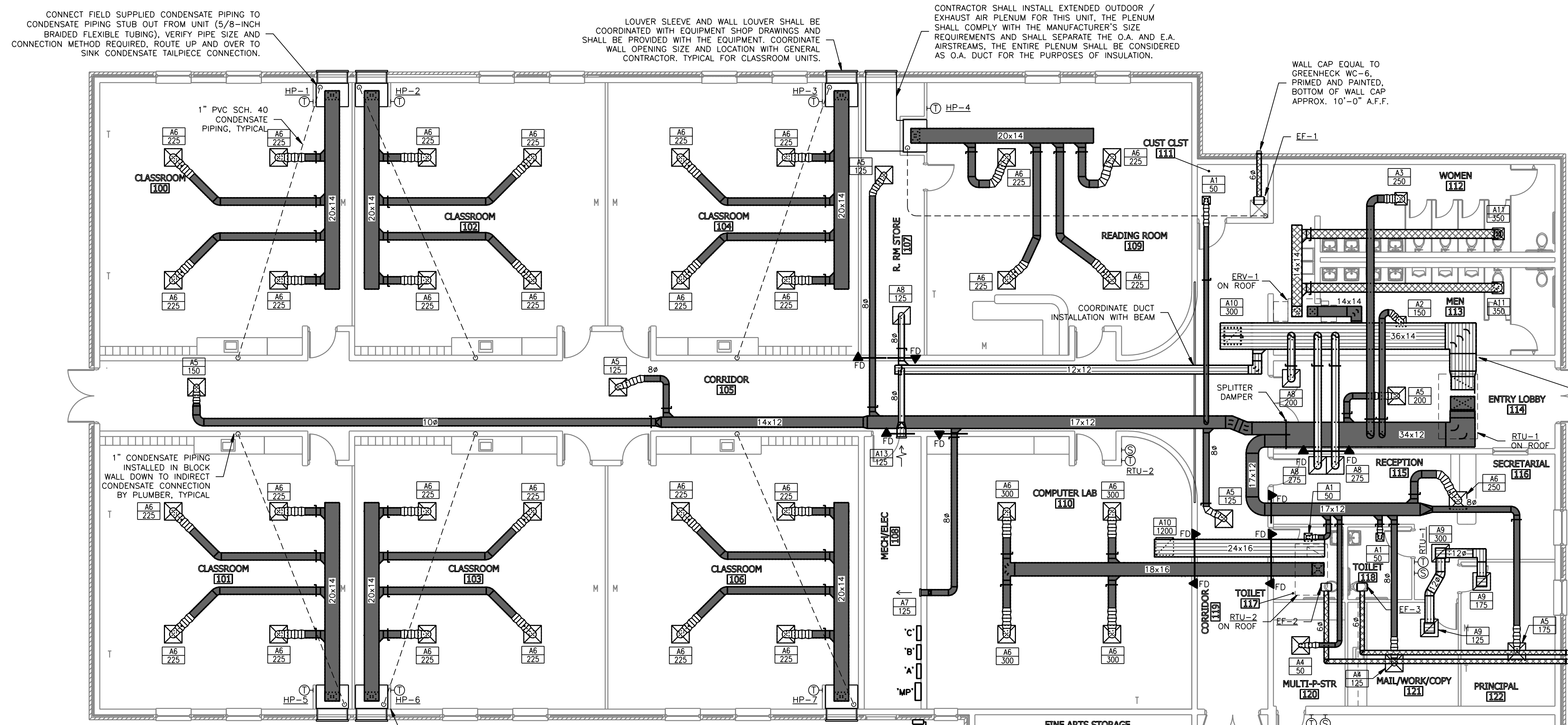
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DATE: 10/27/2016
SHEET TITLE: HVAC SYSTEM
JOB NO.: 14-089
SHEET

M1.1



CONNECT FIELD SUPPLIED CONDENSATE PIPING TO CONDENSATE PIPING STUB OUT FROM UNIT (5/8-INCH BRAIDED FLEXIBLE TUBING). VERIFY PIPE SIZE AND CONNECTION METHOD REQUIRED, ROUTE UP AND OVER TO SINK CONDENSATE TAILPIECE CONNECTION.

LOUVER SLEEVE AND WALL LOUVER SHALL BE COORDINATED WITH EQUIPMENT SHOP DRAWINGS AND SHALL BE PROVIDED WITH THE EQUIPMENT. COORDINATE WALL OPENING SIZE AND LOCATION WITH GENERAL CONTRACTOR. TYPICAL FOR CLASSROOM UNITS.

CONTRACTOR SHALL INSTALL EXTENDED OUTDOOR / EXHAUST AIR PLENUM FOR THIS UNIT, THE PLENUM SHALL COMPLY WITH THE MANUFACTURER'S SIZE REQUIREMENTS AND SHALL SEPARATE THE O.A. AND E.A. AIRSTREAMS, THE ENTIRE PLENUM SHALL BE CONSIDERED AS O.A. DUCT FOR THE PURPOSES OF INSULATION.

WALL CAP EQUAL TO GREENHECK WC-6, PRIMED AND PAINTED, BOTTOM OF WALL CAP APPROX. 10'-0" A.F.F.

INSTALL RETURN AIR DUCT AS HIGH AS POSSIBLE WHILE STILL CLEARING BOND BEAM. OFFSET DUCT DOWN TO BELOW ROOF FRAMING ABOVE MEN 113 CEILING

(2) WALL CAPS EQUAL TO GREENHECK WC-6, PRIMED AND PAINTED, BOTTOM OF WALL CAPS APPROX. 10'-0" A.F.F.

BRANCH DUCT SCHEDULE

CFM RANGE	DUCT SIZE
50 - 125	6"ø
126 - 200	8"ø
201 - 350	10"ø
351 - 500	12"ø
501 - 750	14"ø
751 - 850	16"ø
851 - 1100	18"ø
1101 - 1500	20"ø

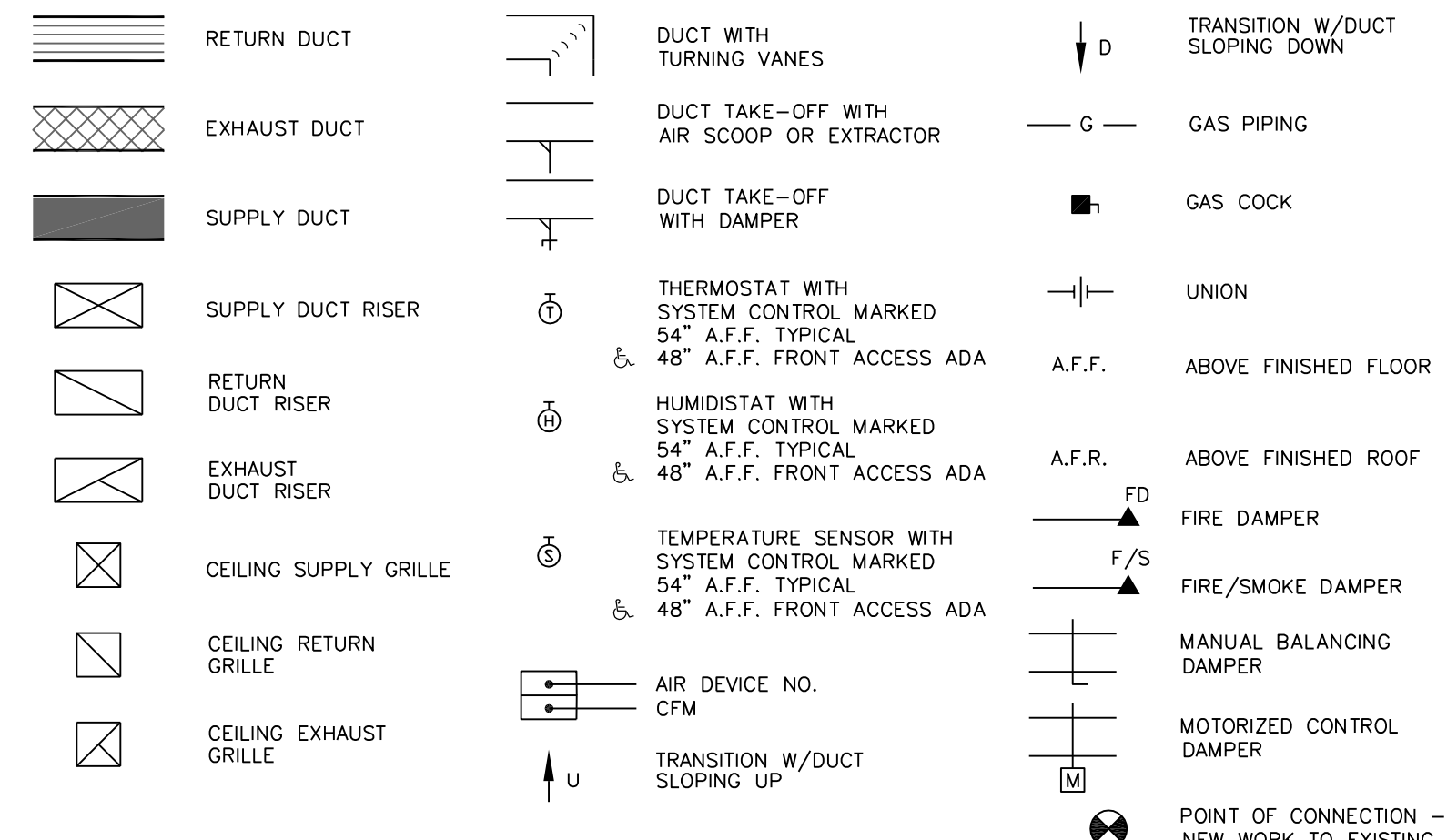
NOTE: BRANCH DUCTING TO AIR DEVICE SHALL BE ROUND DUCT AND SHALL BE SIZED PER BRANCH DUCT SCHEDULE, UNLESS OTHERWISE NOTED.

DUCTWORK GENERAL NOTES:
1. ALL DUCTWORK DIMENSIONS SHOWN ARE SHEETMETAL DIMENSIONS. CONTRACTOR DOES NOT NEED TO INCREASE OR DECREASE DUCT SIZE SHOWN ON PLANS FOR INSULATION.
2. RECTANGULAR SUPPLY AND RETURN DUCTWORK SHALL BE INTERNALLY INSULATED, UNLESS OTHERWISE NOTED.
3. RECTANGULAR FRESH AIR AND EXHAUST DUCTWORK SHALL BE EXTERNALLY INSULATED, UNLESS OTHERWISE NOTED.
4. ROUND BRANCH DUCTWORK SHALL BE EXTERNALLY INSULATED WITH INSULATED FLEXIBLE DUCT AS SPECIFIED IN MECHANICAL NOTES.

MECHANICAL GENERAL NOTES AND SPECIFICATIONS:

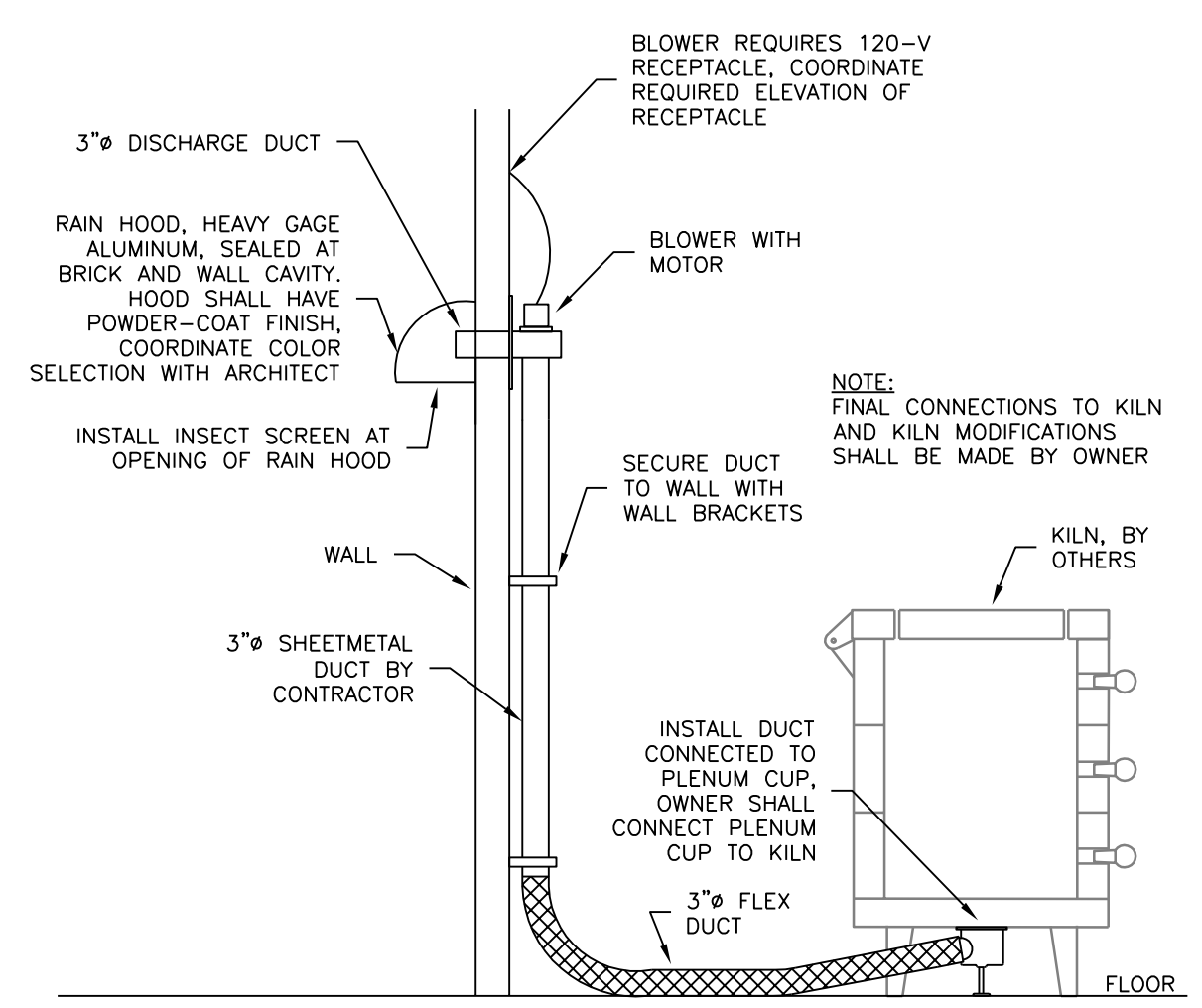
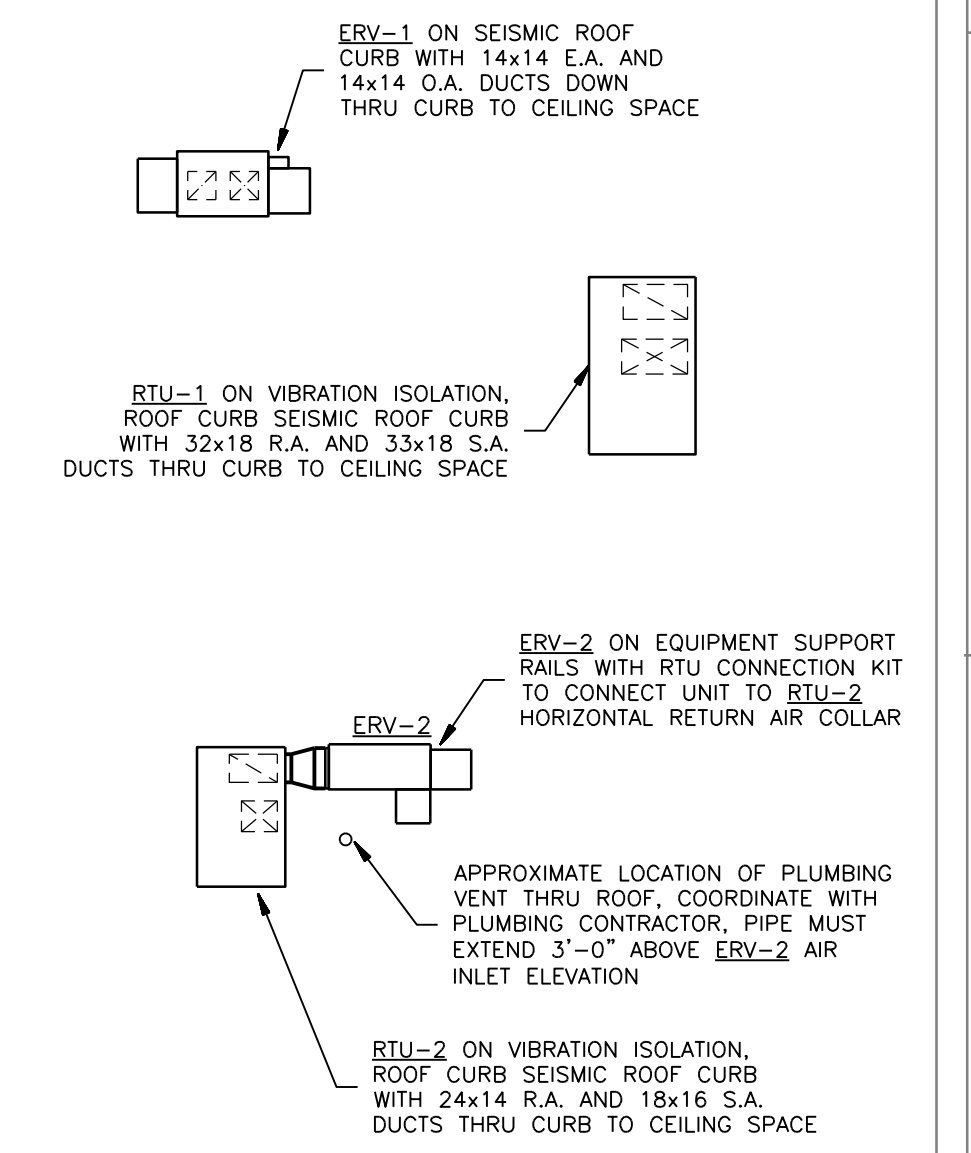
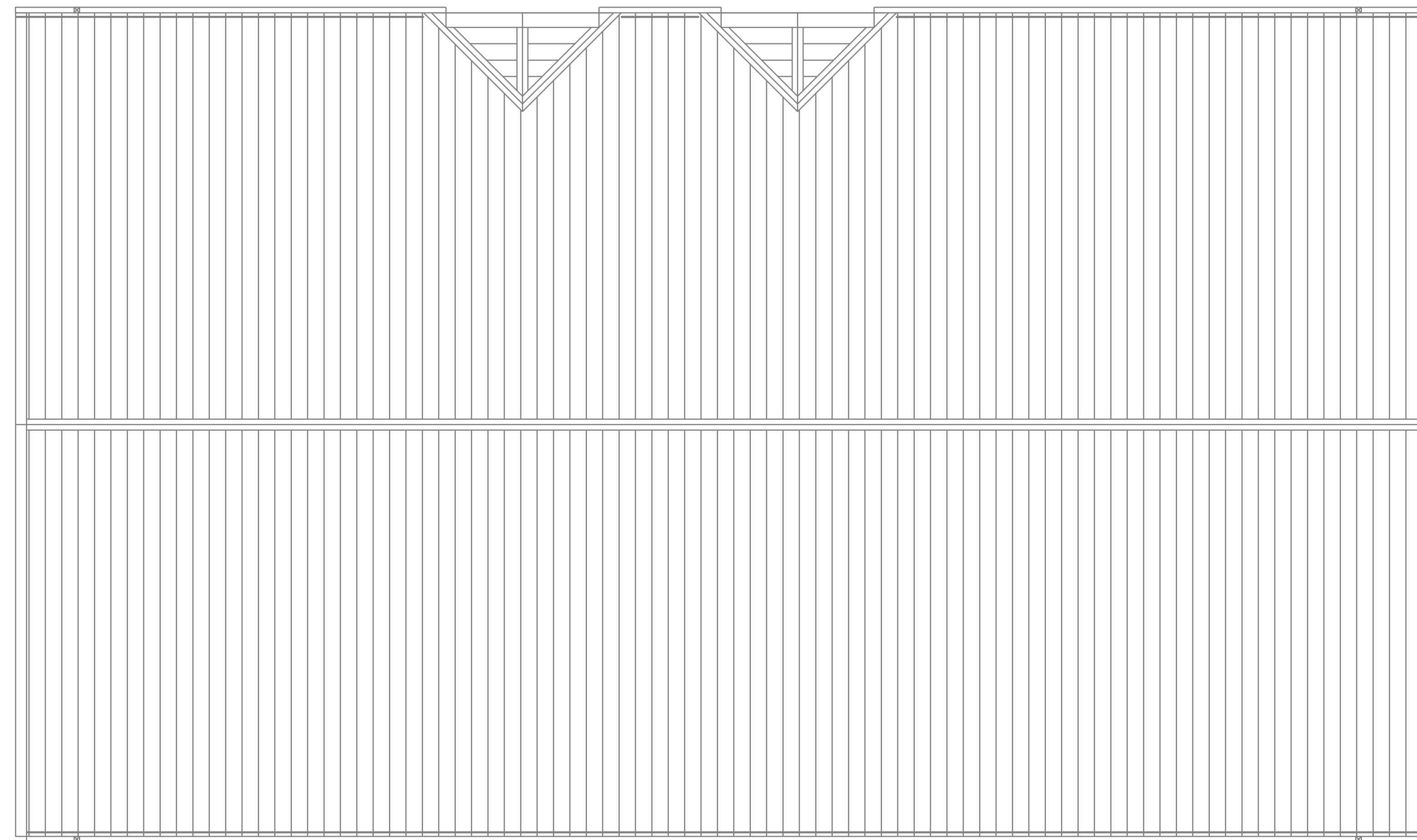
- ALL MECHANICAL WORK SHALL COMPLY WITH ALL CURRENT REQUIREMENTS OF FEDERAL, STATE, AND LOCAL CODES & INTERNATIONAL BUILDING AND MECHANICAL CODES, ADOPTED EDITION.
- ALL MECHANICAL WORK SHALL COMPLY WITH ALL CURRENT REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AS A MINIMUM STANDARD.
- ALL MECHANICAL WORK FOR THE EQUIPMENT SHALL BE INSTALLED IN COMPLIANCE WITH THE MANUFACTURER'S SHOP DRAWINGS AND INSTALLATION INSTRUCTIONS. VERIFY EXACT LOCATIONS FOR EQUIPMENT AND CONNECTIONS TO EQUIPMENT. ALL CONNECTIONS AND CONTROLS FOR EQUIPMENT SHALL BE INSTALLED TO COMPLY WITH THE MANUFACTURER'S SHOP DRAWINGS AND INSTALLATION INSTRUCTIONS.
- PRIOR TO START OF WORK, CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, EQUIPMENT AND SIZES, CLEARANCES, PIPING LOCATIONS AND SIZES, AND BUILDING CONSTRUCTION.
- PRIOR TO CONSTRUCTING OPENINGS THRU ROOF, WALLS OR FLOORS, COORDINATE WITH GENERAL CONTRACTOR AND ALL OTHER TRADES. COORDINATE WITH GENERAL CONTRACTOR TO PATCH AND/OR REPAIR OPENINGS. DO NOT CUT EXISTING STRUCTURAL ELEMENTS.
- GENERAL CONTRACTOR SHALL CONSTRUCT ROOF PENETRATIONS AND INSTALL STRUCTURAL COMPONENTS FOR ROOF MOUNTED EQUIPMENT. PROVIDE EXACT LOCATIONS AND DIMENSIONS FOR ALL ROOF MOUNTED EQUIPMENT. INSTALL ROOF CURBS AND COORDINATE WITH GENERAL CONTRACTOR FOR FLASHING AND WEATHERPROOFING TO ROOF.
- HVAC SUPPLY AIR, RETURN AIR, OUTSIDE AIR AND EXHAUST AIR DUCTWORK SHALL BE FABRICATED FROM GALVANIZED SHEET STEEL COMPLYING WITH ASTM A527, LOCKFORMING QUALITY, WITH G90 ZINC COATING IN ACCORDANCE WITH ASTM A525, AND MILL PHOSPHATIZED FOR EXPOSED LOCATIONS. SHEET METAL GAUGES SHALL COMPLY WITH SMACNA SPECIFICATIONS. ALL DUCTING SHALL BE SEALED AIRTIGHT W/ POLYKEN NO. 337 ALUMINUM DUCT TAPE.
- INSTALL TURNING VANES AND DUCT EXTRACTORS IN DUCTWORK AS SHOWN AND/OR AS REQUIRED FOR AIR FLOW.
- RECTANGULAR SUPPLY & RETURN AIR SHEET METAL DUCTWORK SHALL HAVE 1" THICK DUCT LINER, CLASS 1, U.L. 181 APPROVED. ALL EDGES OF DUCT LINER, EXPOSED TO THE AIRSTREAM, SHALL BE SEALED TO PREVENT EROSION. ROUND DUCTWORK AND OUTSIDE AIR DUCTWORK SHALL BE INSULATED W/ CLASS 1, INSULATED FLEXIBLE DUCT W/ REINFORCED VAPOR-BARRIER JACKET, 1-1/4" THICKNESS, U.L. 181 APPROVED. SEAL DUCTWORK AIR TIGHT BEFORE INSTALLING INSULATION OVER DUCTWORK. ALL INSULATION SHALL BE UL CLASSIFIED AND SHALL MEET THE REQUIREMENTS OF NFPA-90A AND NFPA-90B. INSULATION SHALL NOT EXCEED 25 FLAME SPREAD RATING AND 50 SMOKE DEVELOPED RATING. INSTALL ALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- INSTALL ALL WORK AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS, COORDINATE WITH OTHER TRADES, AND DETERMINE PROPER ELEVATIONS FOR ALL COMPONENTS. VERIFY EXACT LOCATIONS AND ELEVATION OF ALL WORK. ALL WORK SHALL BE INSTALLED IN A NEAT MANNER USING GOOD WORKMANSHIP AND SHALL BE RIGIDLY SECURED IN PLACE TO PROVIDE THE INTENDED SERVICE.
- ALL DUCTWORK SHALL BE SUPPORTED BY HANGERS OF TYPES AND AT THE SPACINGS AS RECOMMENDED BY SMACNA, UNLESS OTHERWISE SHOWN AND/OR NOTED ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL STEEL ANGLES, CHANNELS, UNISTRUT, ETC., AS REQUIRED TO SPAN BETWEEN STRUCTURAL MEMBERS IN ORDER TO HANG DUCTING AT PROPER INTERVALS AND AT NECESSARY POINTS.
- PRIOR TO START OF WORK, COORDINATE WITH GENERAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION CONTRACTORS AND DRAWINGS FOR LOCATION OF ALL DUCTWORK AND GRILLES. COORDINATE WITH REFLECTED CEILING PLANS AND LIGHTING PLANS FOR LOCATION OF CEILING GRILLES. INSURE THAT THERE IS ADEQUATE CLEARANCE FOR DUCTWORK IN THE CEILING SPACE.
- FURNISH AND INSTALL FIRE AND/OR SMOKE DAMPERS WITH SLEEVES AND DUCT ACCESS DOORS IN ALL DUCT PENETRATIONS THROUGH RATED ASSEMBLIES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING LIFE SAFETY DAMPERS IN ALL RATED ASSEMBLY PENETRATIONS REGARDLESS OF THE PRESENCE OF A DAMPER SYMBOL ON THE PLAN.
- ALL LOW VOLTAGE CONTROL WIRING SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. LOW VOLTAGE WIRING SHALL BE INSTALLED IN EMT CONDUIT PER ELECTRICAL SPECIFICATIONS AND SHALL BE INSTALLED CONCEALED WITHIN WALLS AND CEILING SPACES.

HVAC SYMBOLS

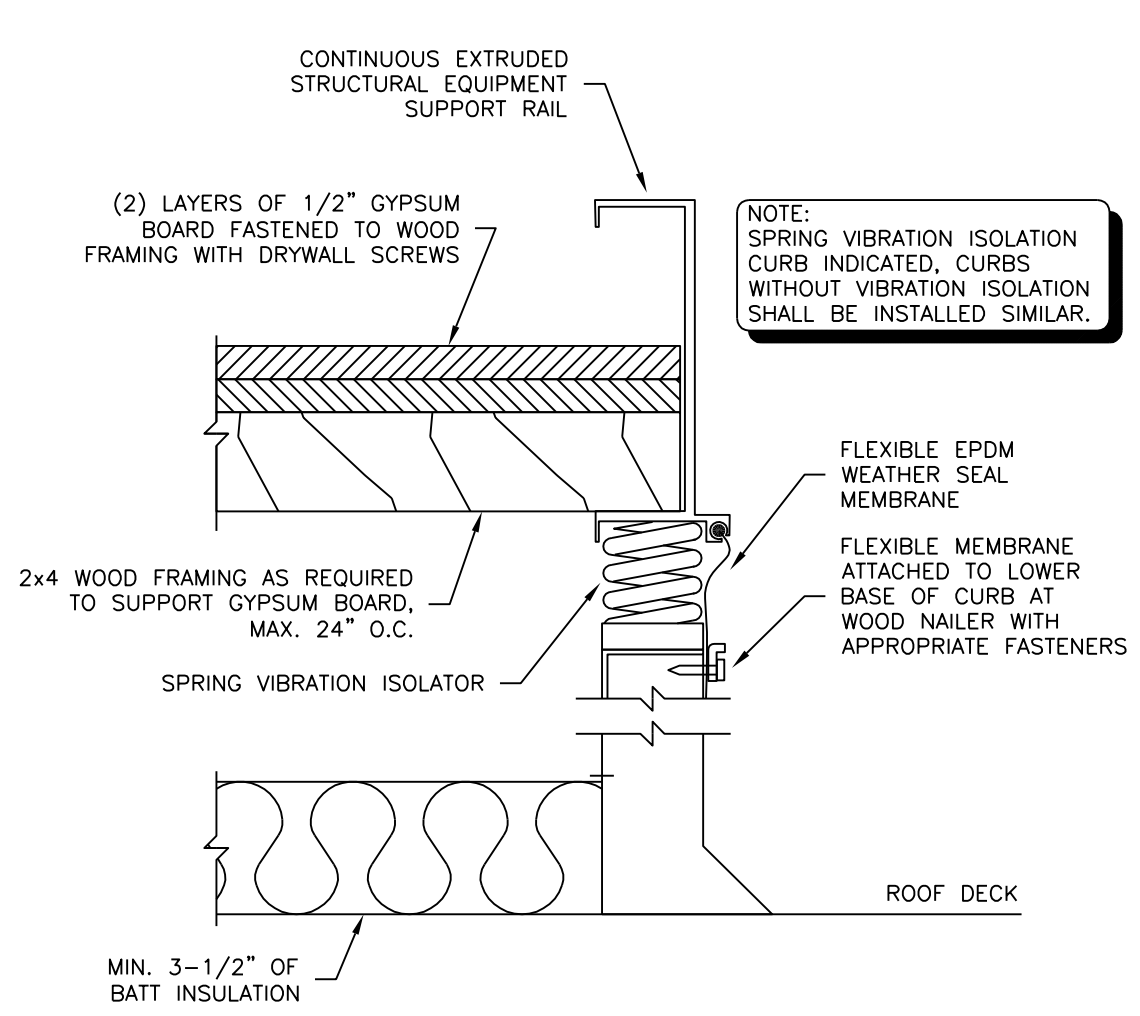


NORTH
1
M1.1
SCALE: 1/8" = 1'-0"
FLOOR PLAN - HVAC SYSTEM

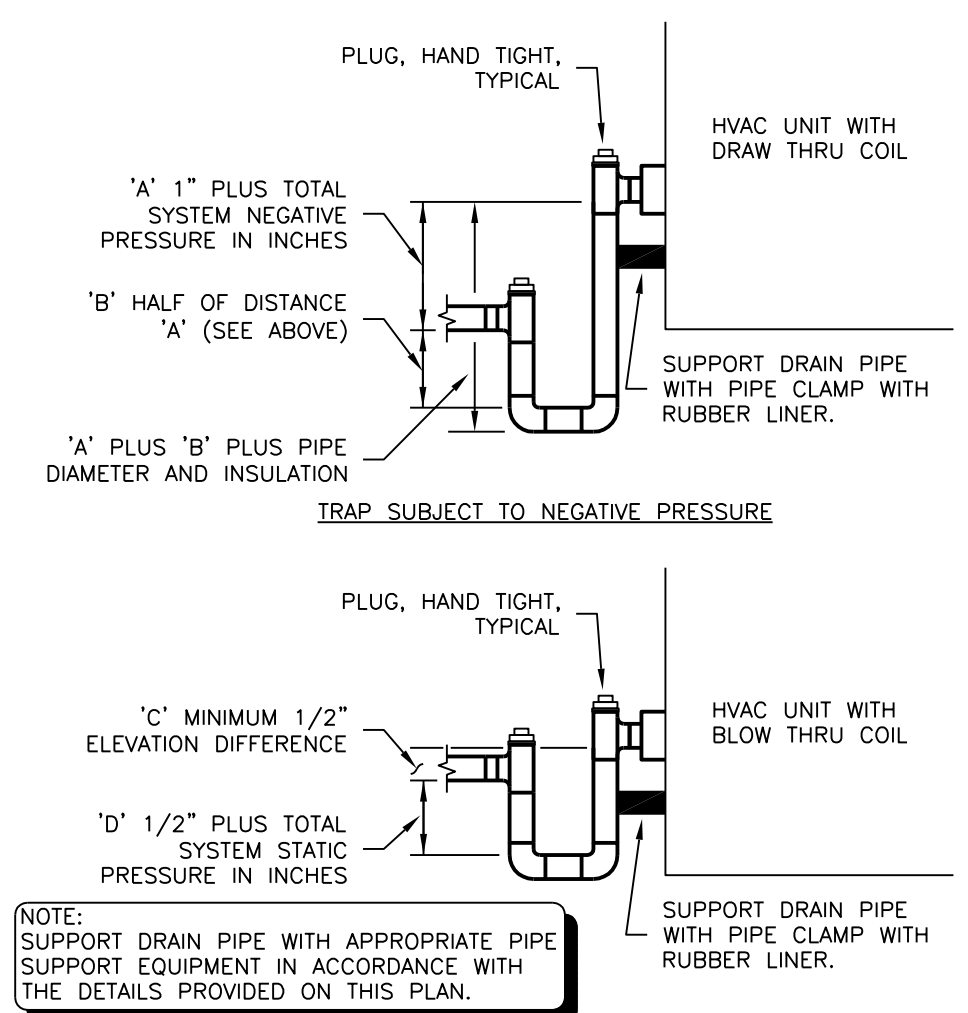
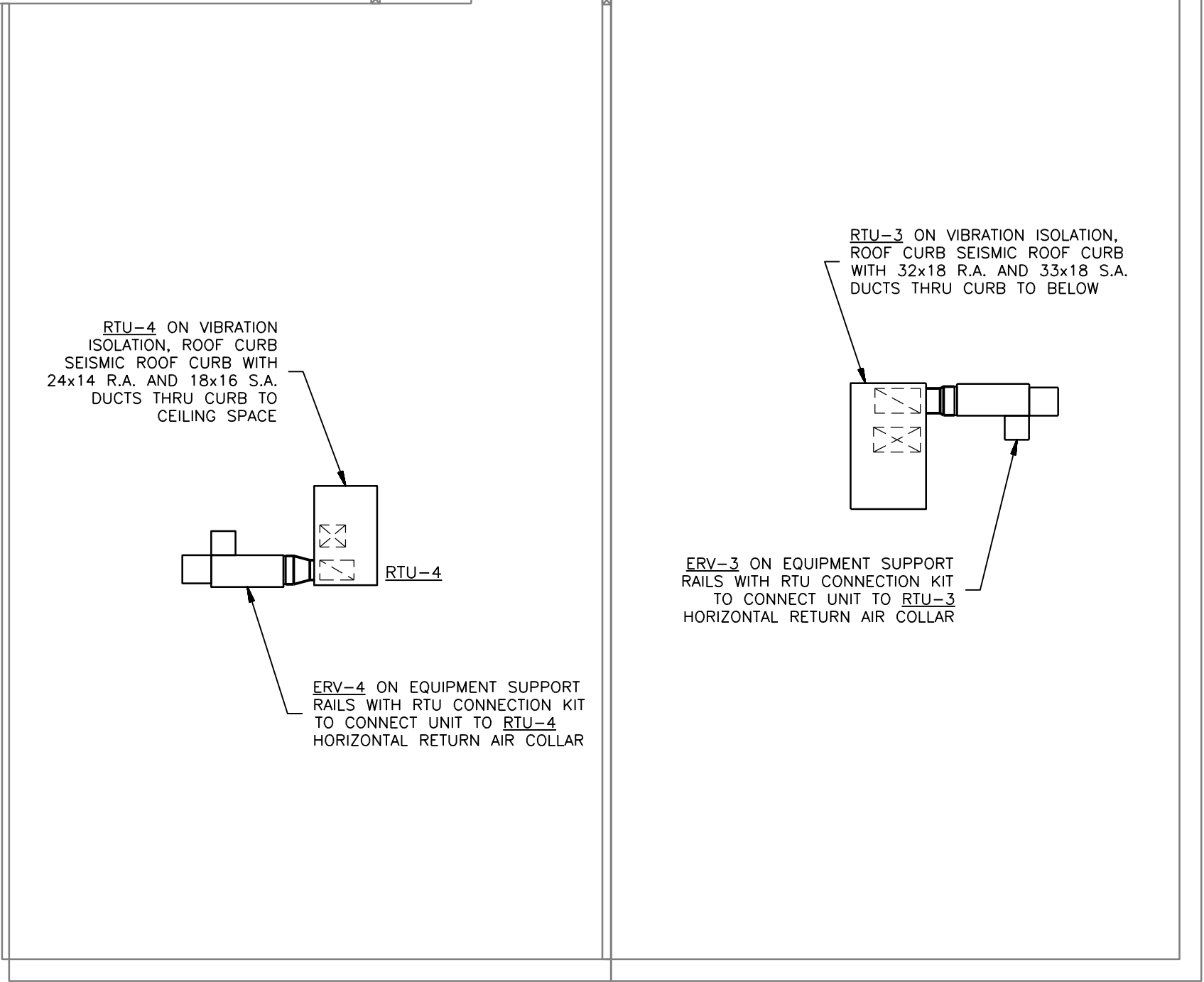
NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS IN REFERENCE TO THE CONTRACT DOCUMENTS. ANY CHANGES SHALL BE IMMEDIATELY SUBMITTED TO THE ARCHITECT.



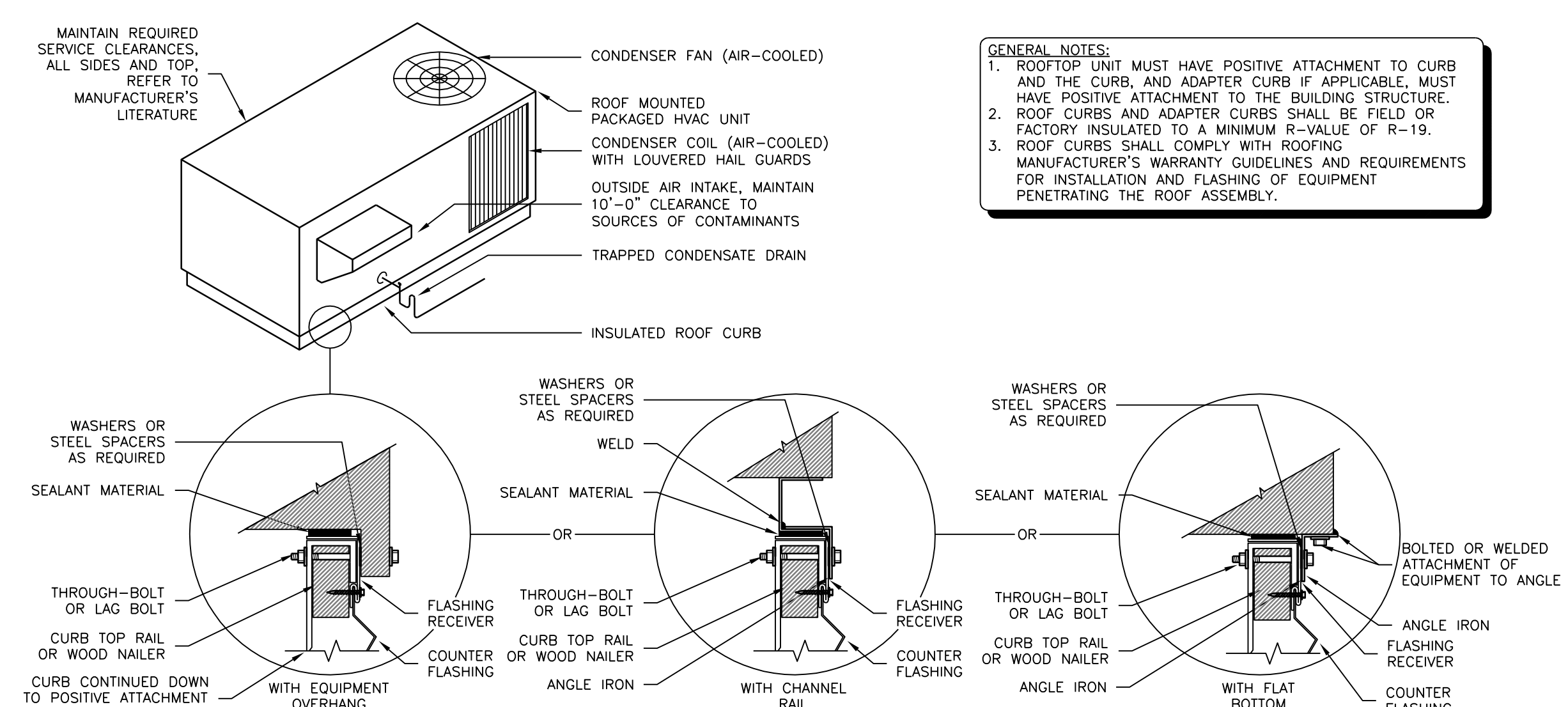
KILN VENT DETAIL
NOT TO SCALE



TYPICAL RTU CURB NOISE REDUCTION TREATMENT
NOT TO SCALE



TYPICAL CONDENSATE TRAP DETAILS
NOT TO SCALE



ROOFTOP UNIT MOUNTING DETAIL
NOT TO SCALE

GENERAL NOTES:
 1. ROOFTOP UNIT MUST HAVE POSITIVE ATTACHMENT TO CURB AND THE CURB, AND ADAPTER CURB IF APPLICABLE, MUST HAVE POSITIVE ATTACHMENT TO THE BUILDING STRUCTURE.
 2. ROOF CURBS AND ADAPTER CURBS SHALL BE FIELD OR FACTORY INSULATED TO A MINIMUM R-VALUE OF R-19.
 3. ROOF CURBS SHALL COMPLY WITH ROOFING MANUFACTURER'S WARRANTY GUIDELINES AND REQUIREMENTS FOR INSTALLATION AND FLASHING OF EQUIPMENT PENETRATING THE ROOF ASSEMBLY.

1
ROOF PLAN - HVAC SYSTEM
 SCALE: 1/8" = 1'-0"

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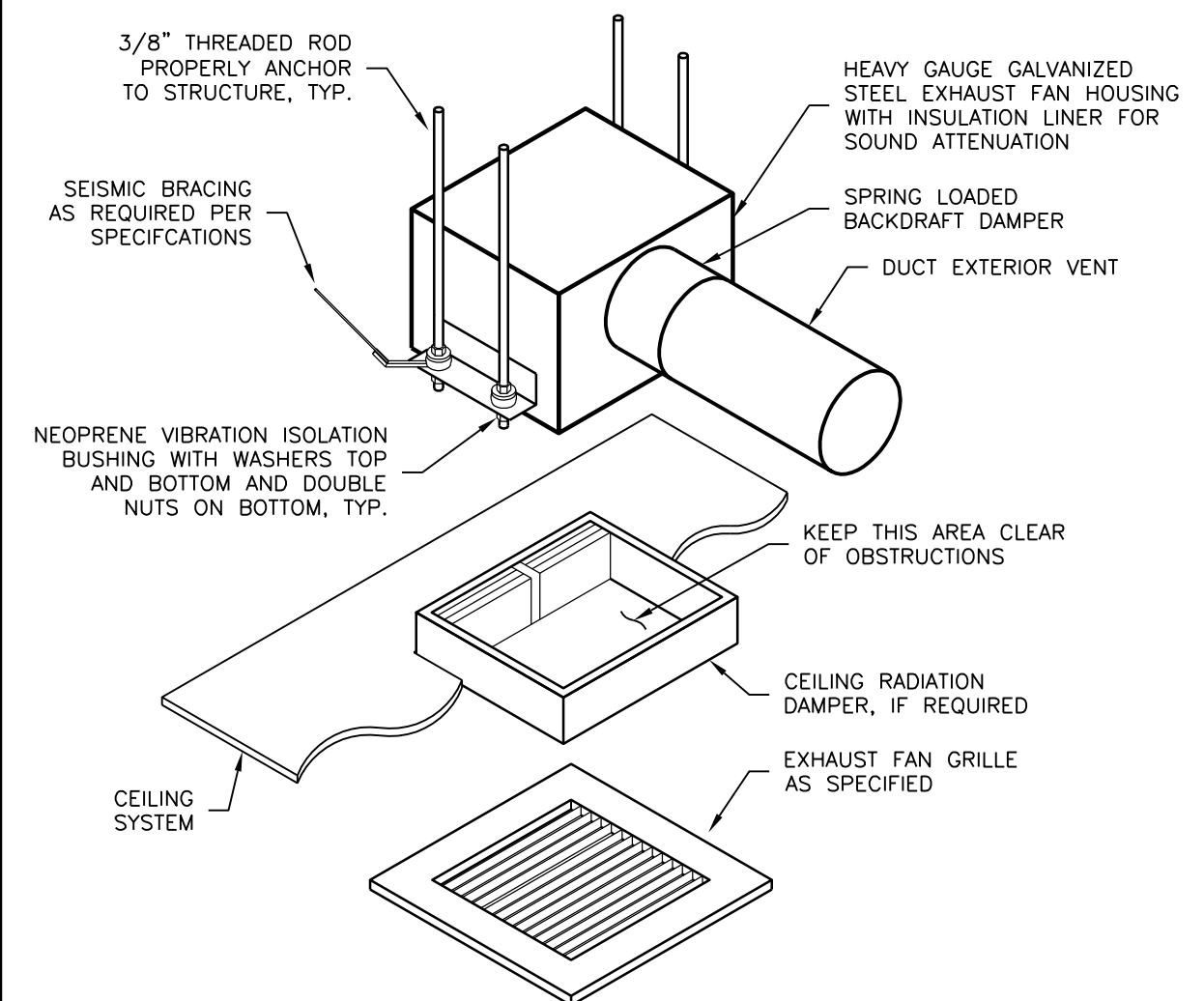
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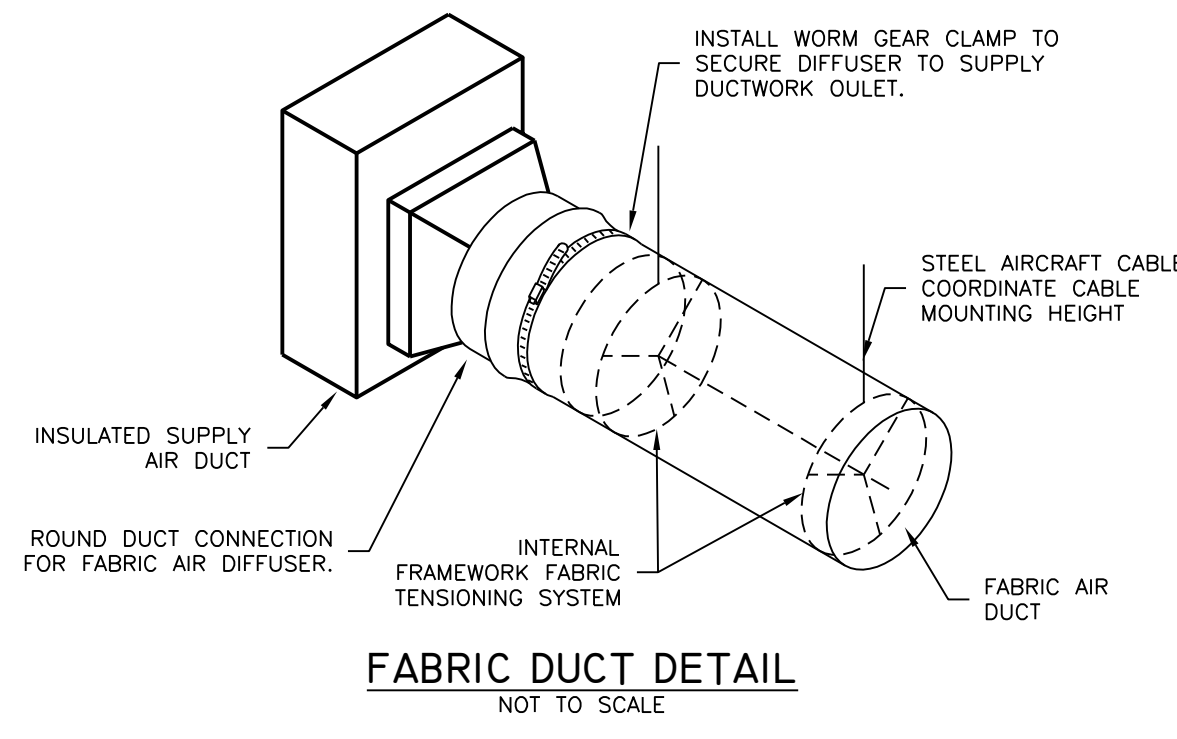
DATE: 10/27/2016
 SHEET TITLE: HVAC SYSTEM
 JOB NO.: 14-089
 SHEET: **M1.2**

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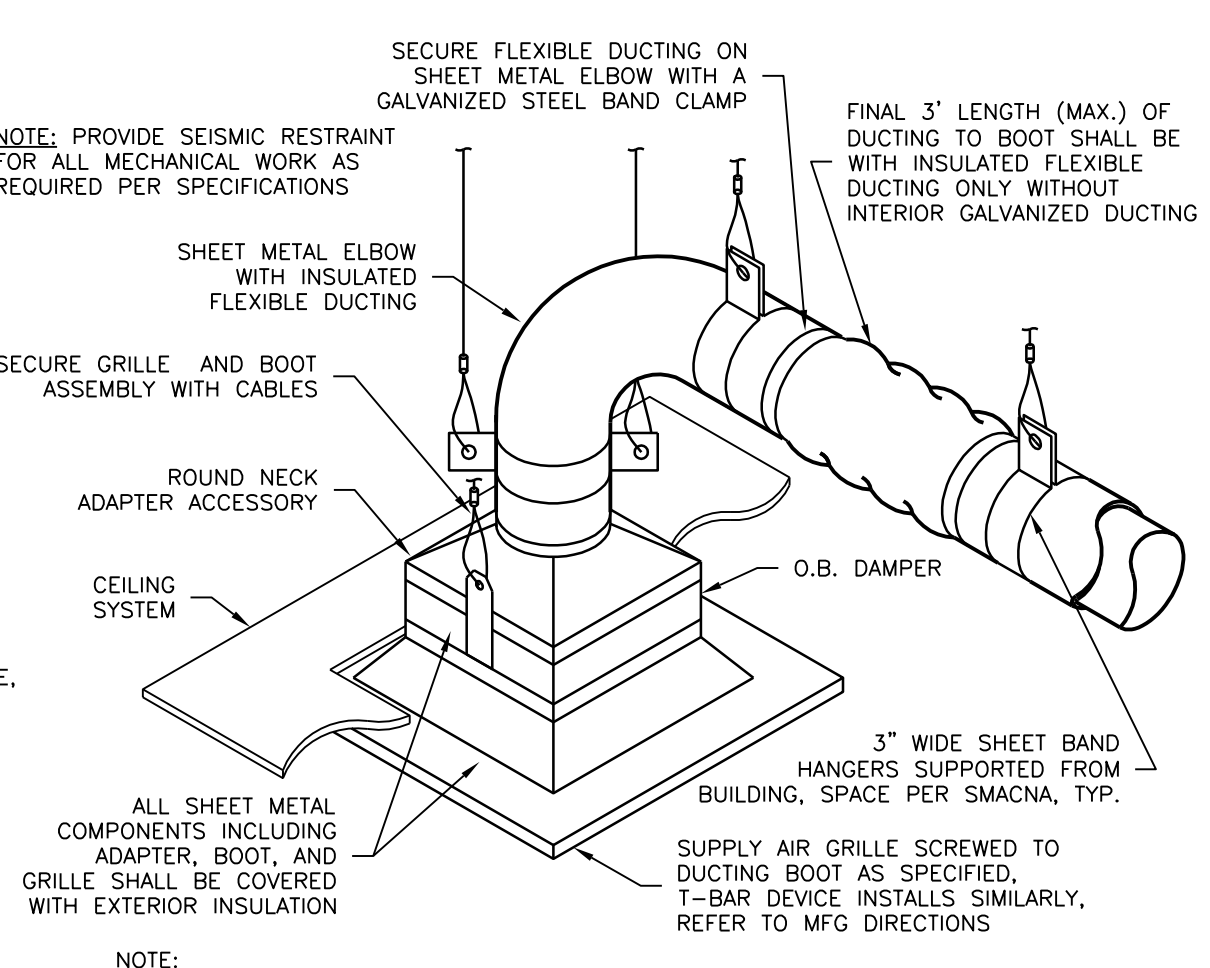
- NOTES:**
1. THE FABRIC DUCT SYSTEM SHALL BE EQUAL TO DUCTSOX TUFTEX FABRIC DUCT WITH ORIFICE SIZES AND QUANTITY DETERMINED BY PRODUCT MANUFACTURER. DUCT SHALL USE COMFORT FLOW AIR ORIFICE TYPE. DUCT SYSTEM SHALL INCLUDE INTERNAL FRAMEWORK FABRIC TENSIONING SYSTEM TO MAINTAIN DUCT SHAPE AT ALL TIMES. COLOR SELECTION SHALL BE BY THE ARCHITECT.
 2. INSTALL WITH ANCHOR SYSTEM AS REQUIRED BY MANUFACTURER.
 3. INSTALL STEEL CABLE CLAMPS, HEAVY DUTY TURNBUCKLES, AND INTERMEDIATE SUPPORT BRACKETS AS REQUIRED BY MANUFACTURER.
 4. AIR ORIFICES SHALL BE LOCATED AT 4 O'CLOCK AND 8 O'CLOCK ORIENTATIONS.



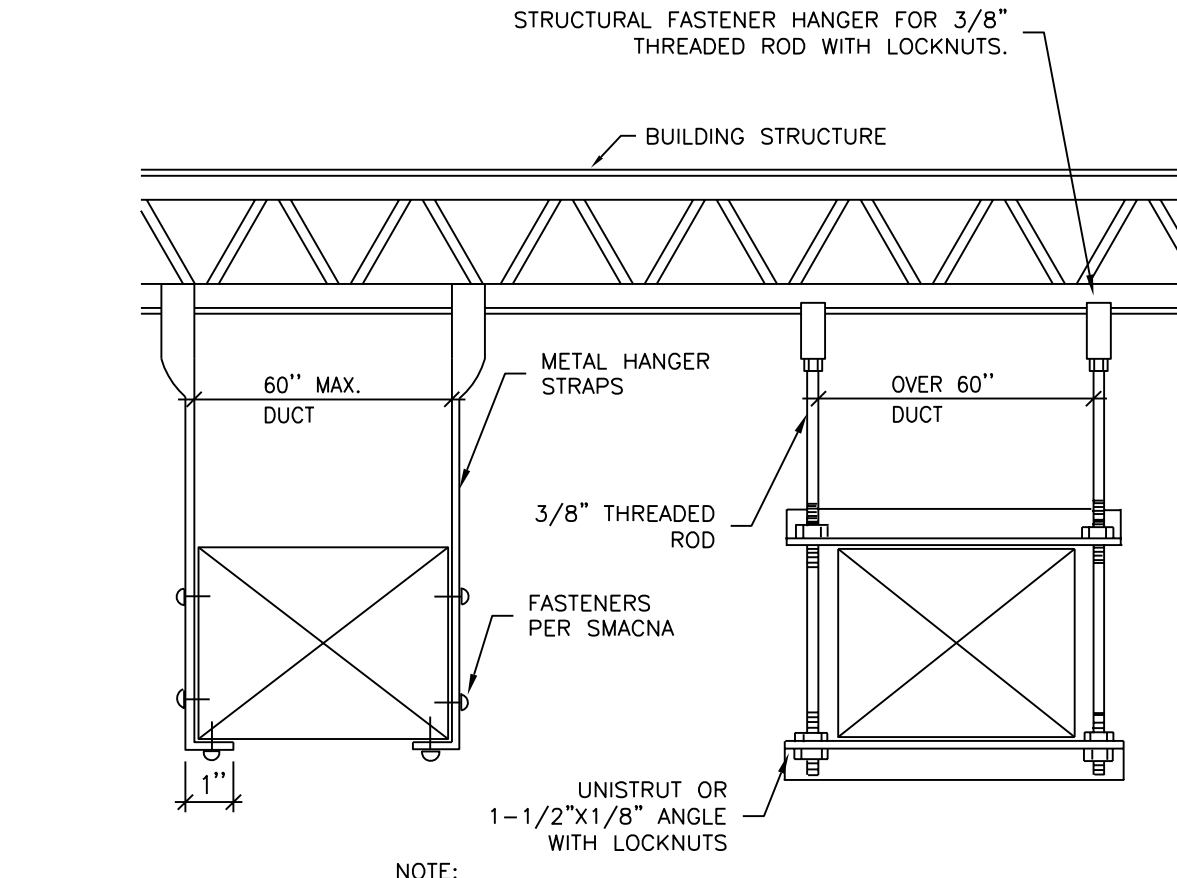
SUSPENDED CEILING EXHAUST FAN DETAIL
NOT TO SCALE



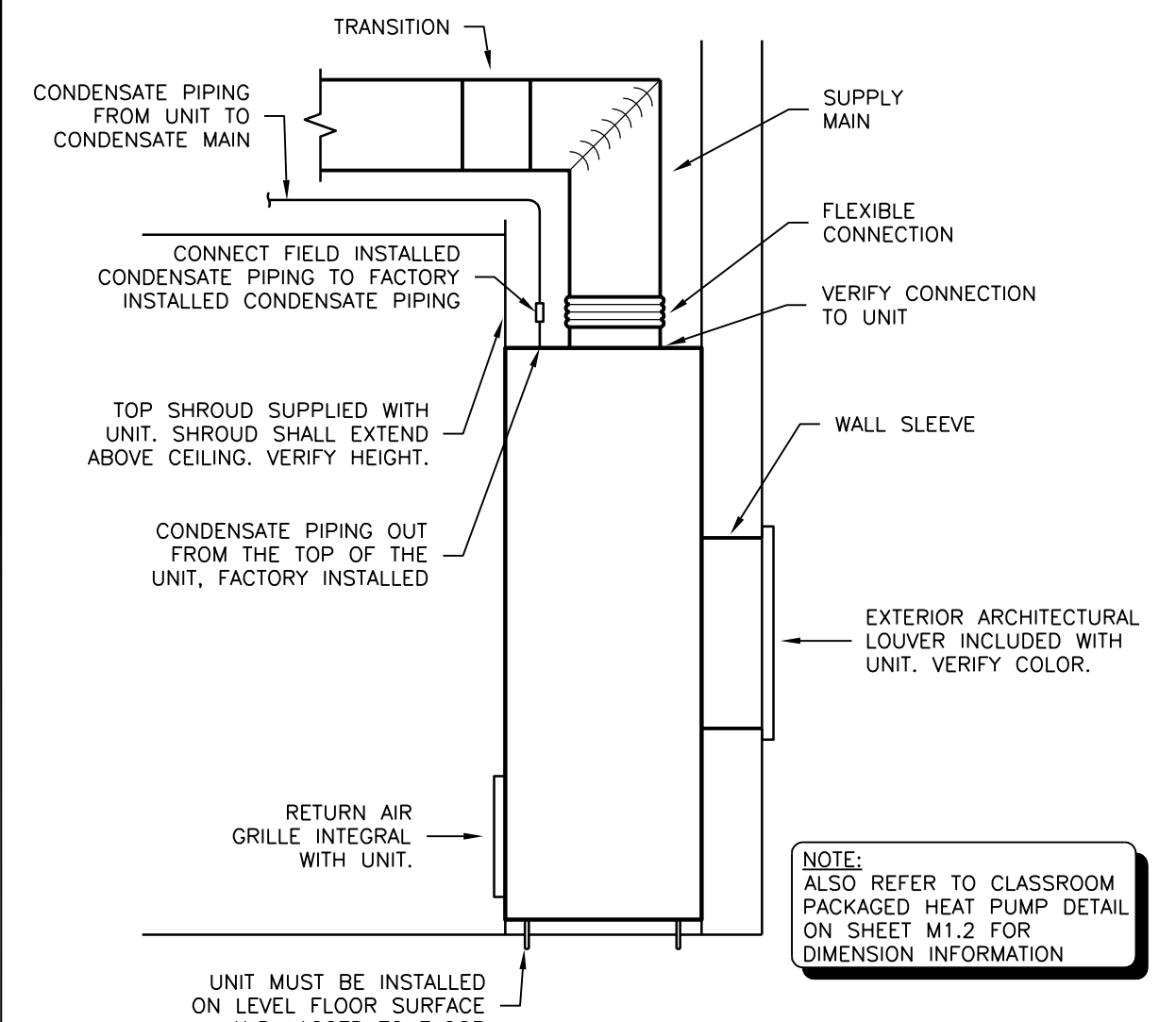
FABRIC DUCT DETAIL
NOT TO SCALE



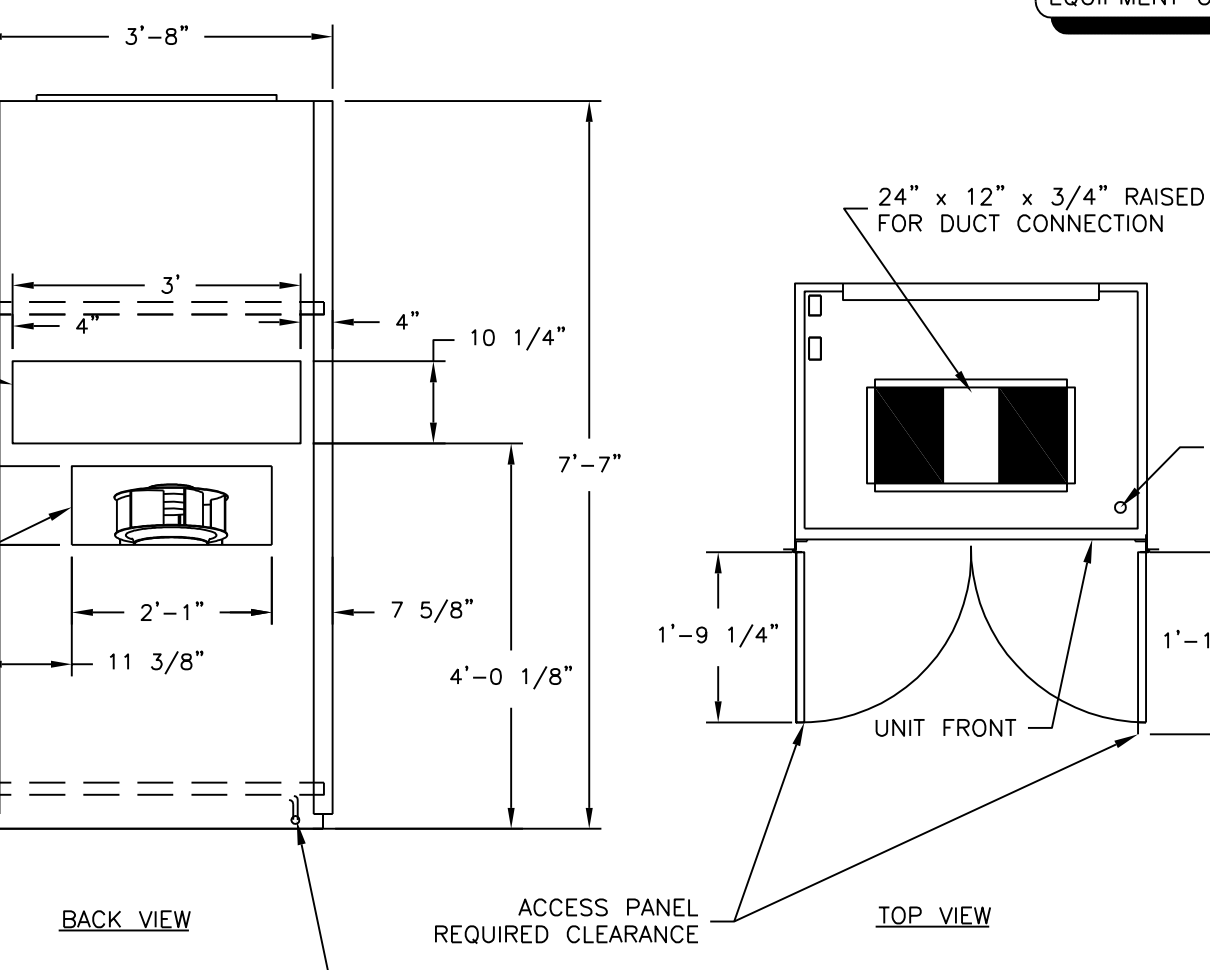
TYPICAL SUPPLY AIR GRILLE
NOT TO SCALE



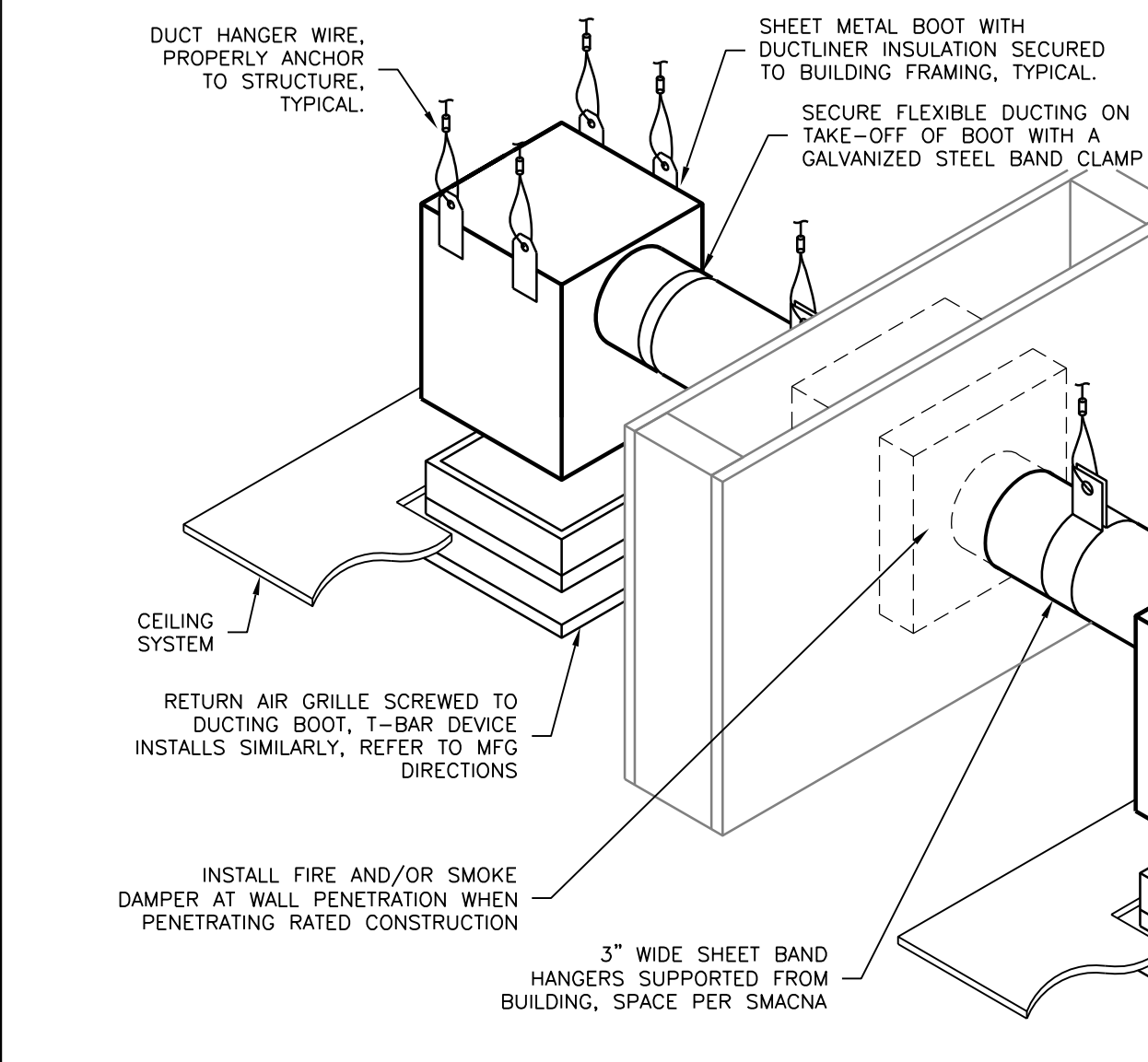
TYPICAL SUSPENDED DUCT MOUNTING DETAIL
NOT TO SCALE



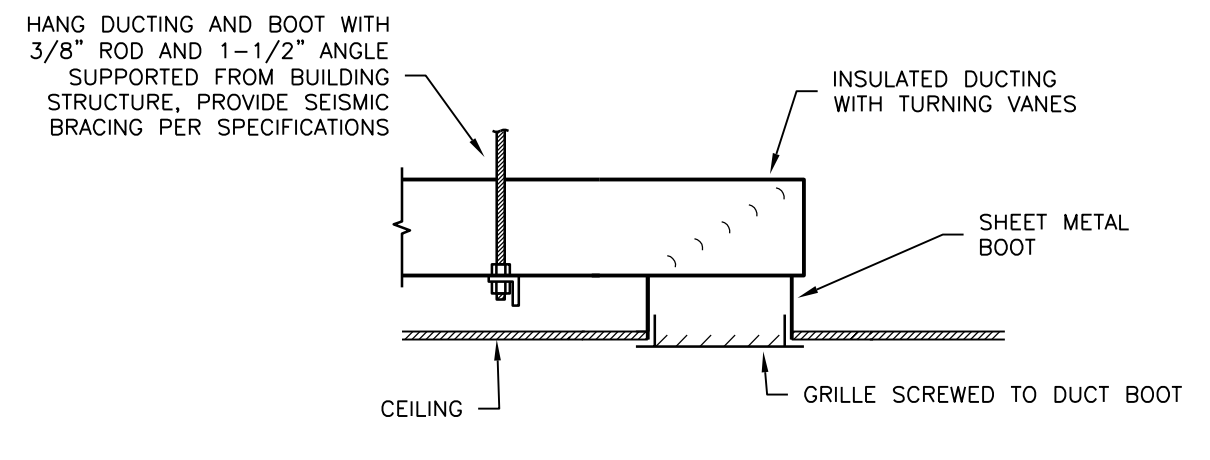
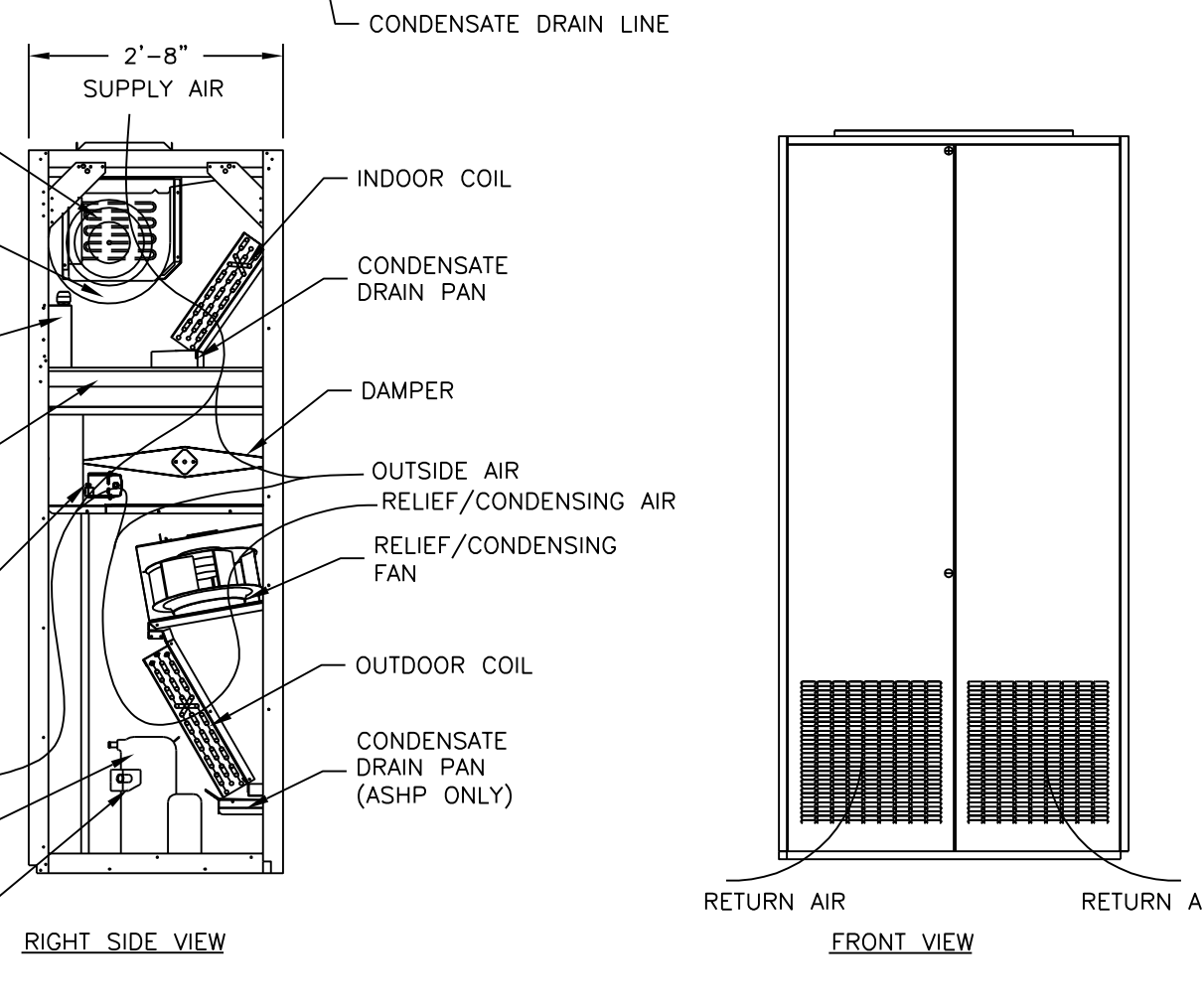
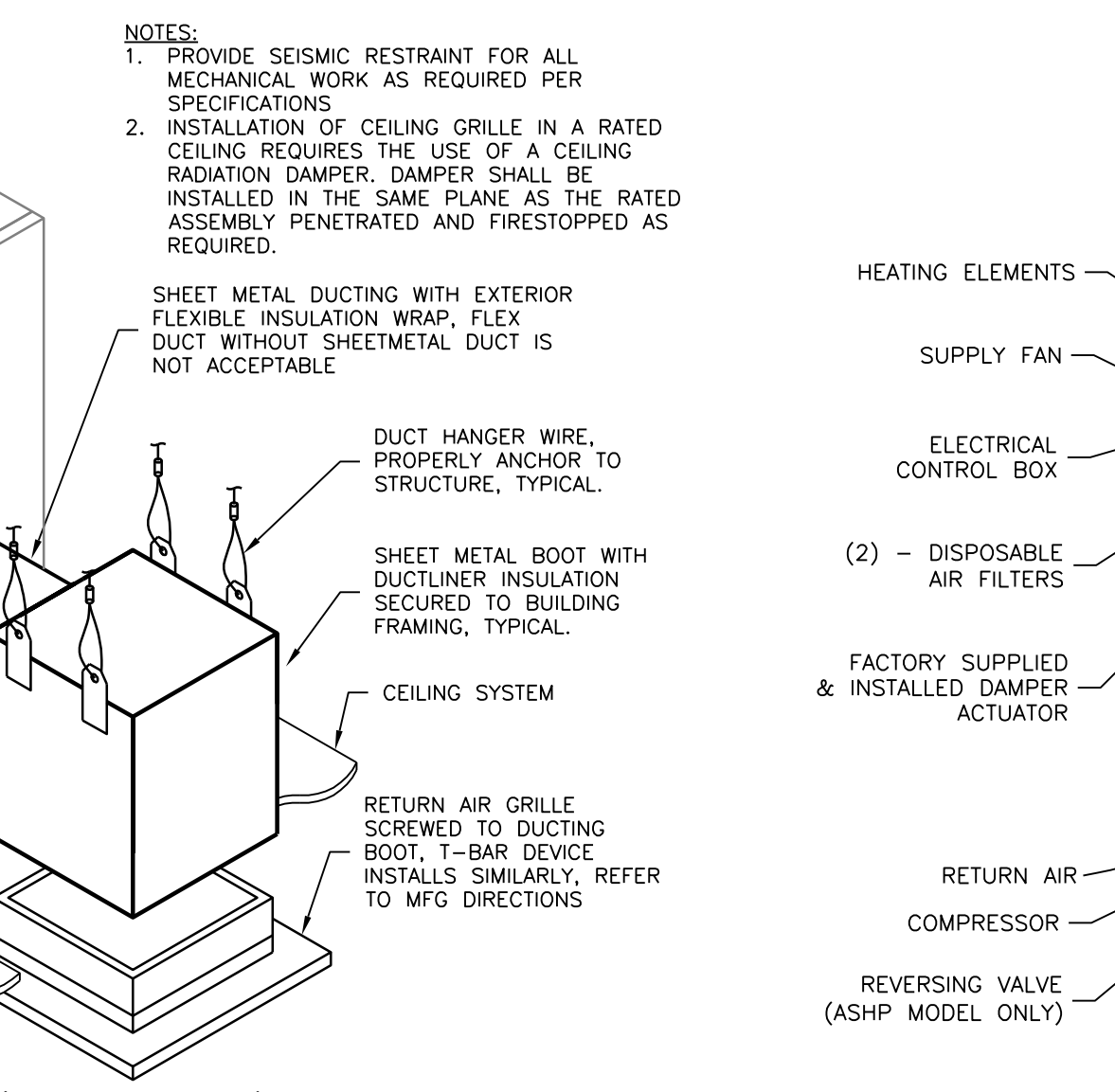
CLASSROOM PACKAGED HEAT PUMP
NOT TO SCALE



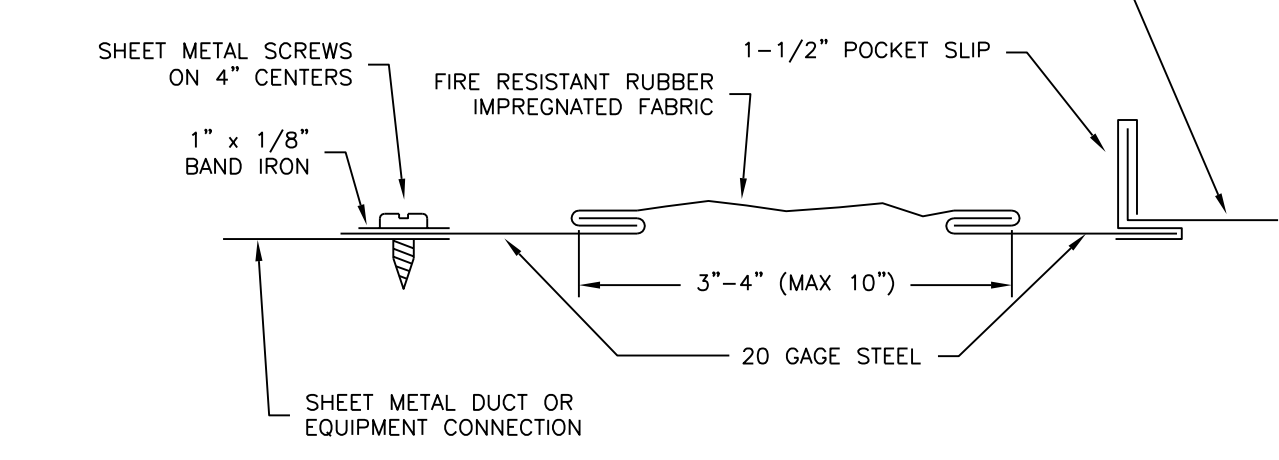
CLASSROOM PACKAGED AIR SOURCE HEAT PUMP DIMENSION INFORMATION
NOT TO SCALE



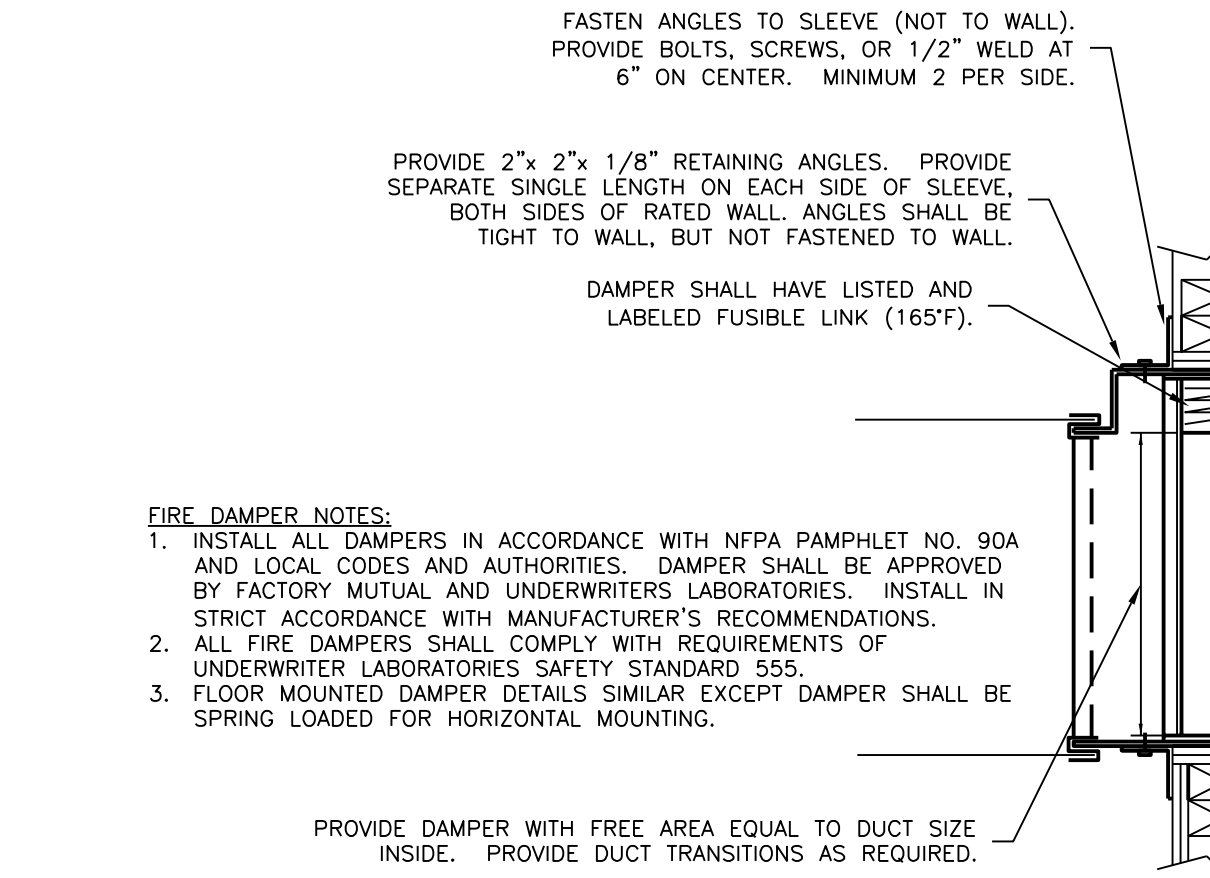
TYPICAL TRANSFER AIR GRILLE (ROUND DUCT)
NOT TO SCALE



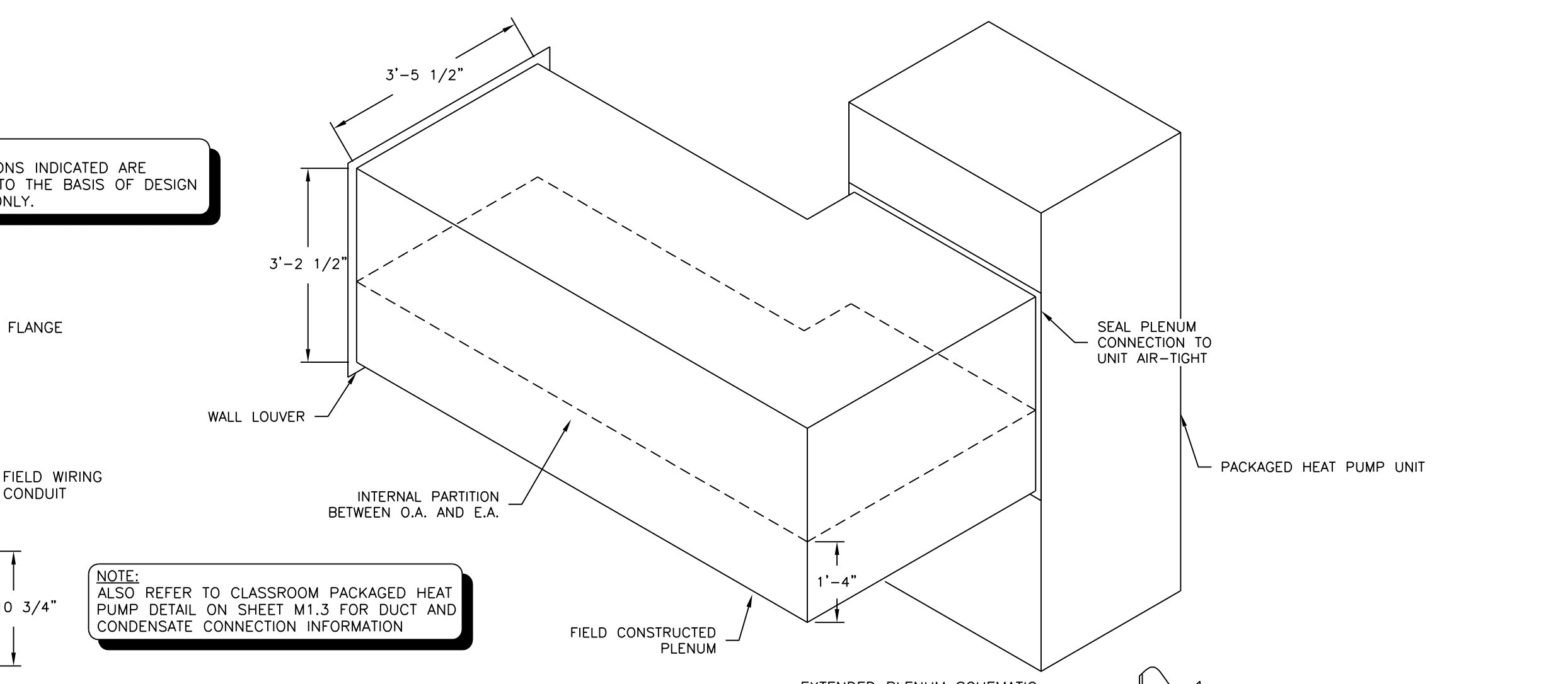
TYPICAL RETURN AIR AND EXHAUST AIR GRILLE
NOT TO SCALE



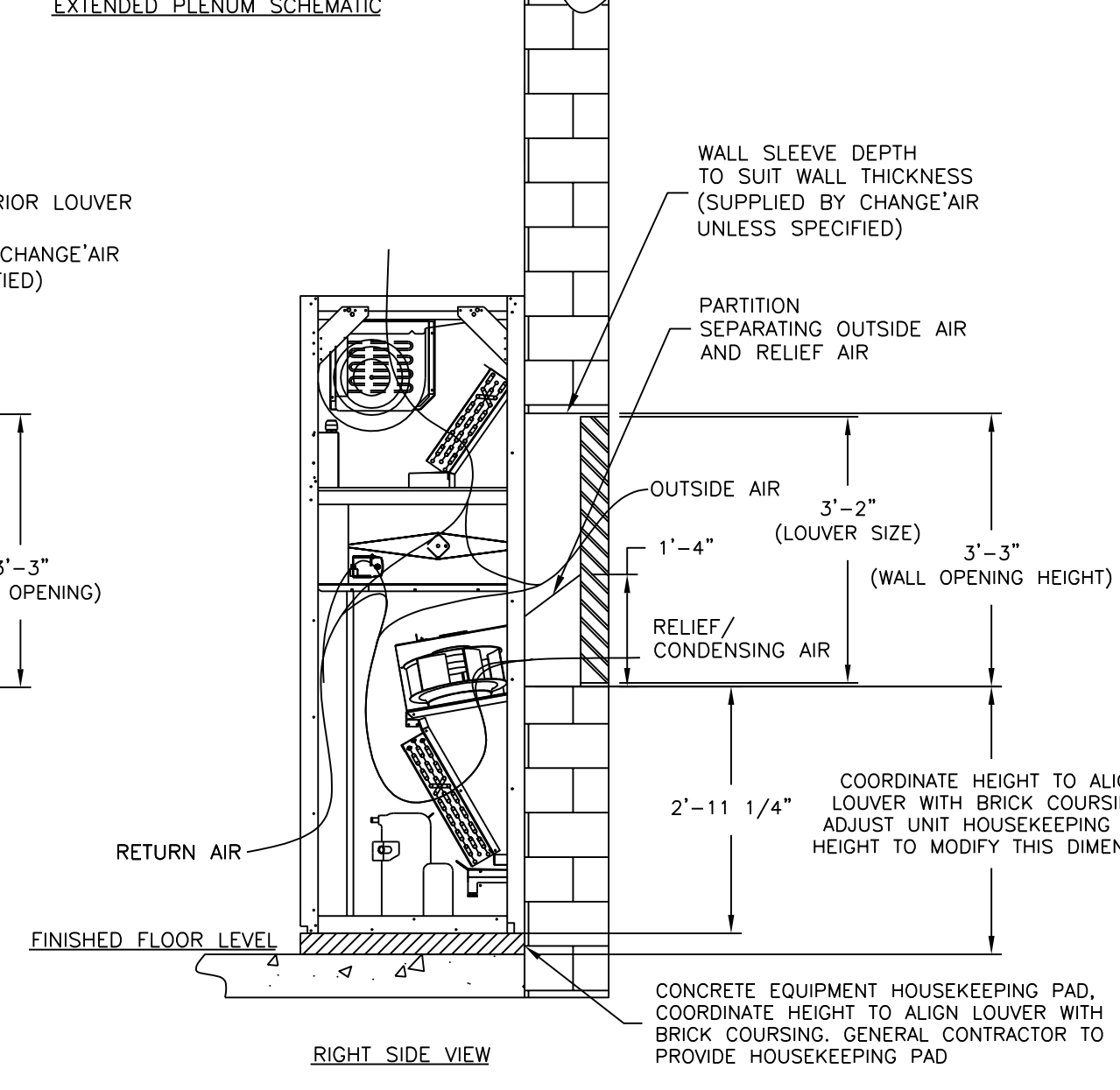
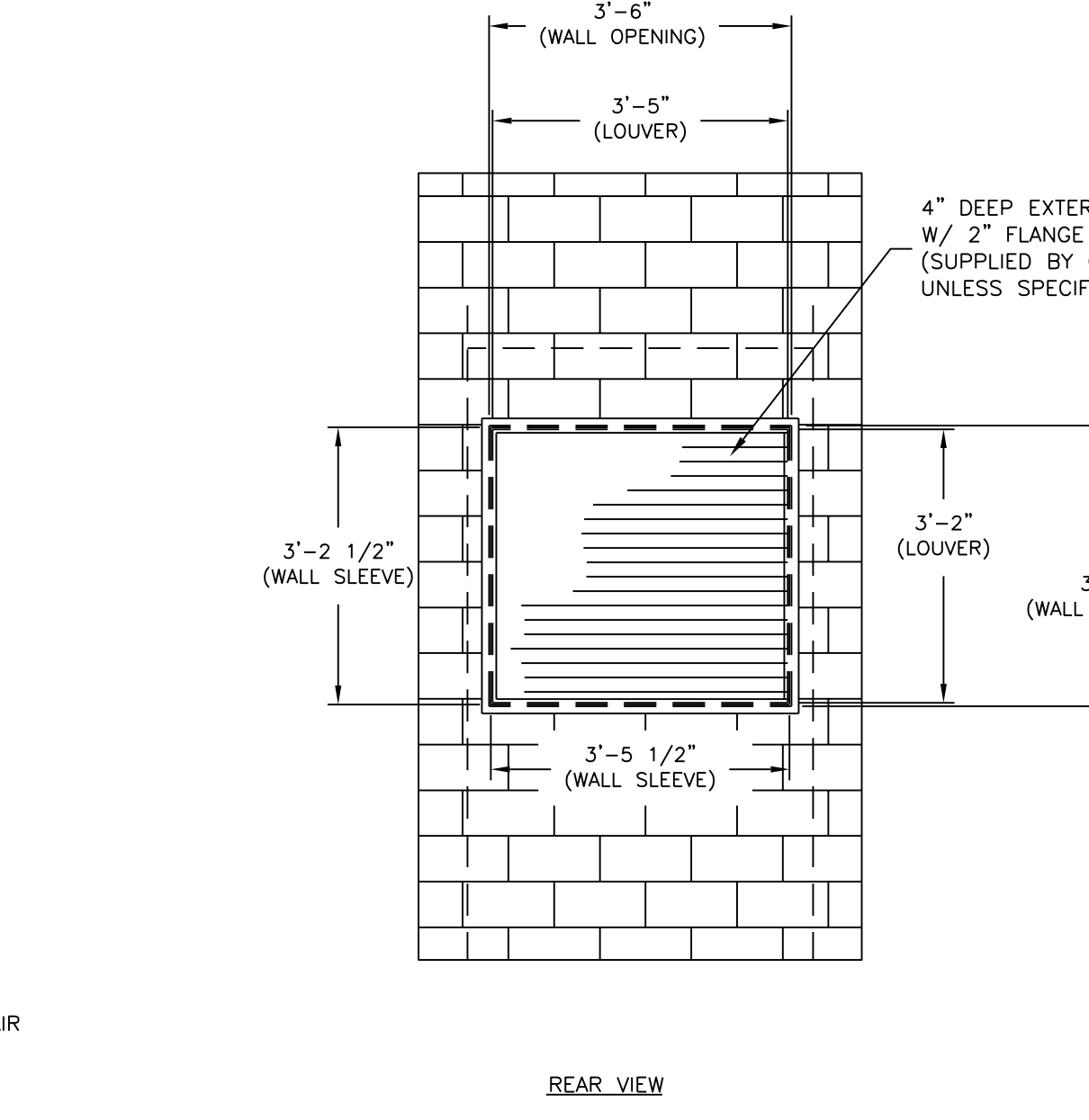
TYPICAL FLEXIBLE CONNECTION
NOT TO SCALE



FIRE DAMPER DETAIL
NOT TO SCALE



EXTENDED PLENUM SCHEMATIC



REVISIONS

10/27/2016

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11818
Mark D. Strickland

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DATE: 10/27/2016
SHEET TITLE: HVAC SYSTEM
JOB NO: 14-089
SHEET: M1.3

HVAC EQUIPMENT SCHEDULE

MARK	ITEM	MANUFACTURER	MODEL NO.	SPECIFICATIONS	REMARKS	OPERATING CONDITIONS	
RTU-1	ROOFTOP AIR CONDITIONER WITH HOT GAS REHEAT AND ELECTRIC HEAT	TRANE	THC060E	15 SEER	NOTES: 1, 2, 3, 4, 5, 6, 10, 11, 12, 13	SUMMER AMBIENT DB / WB (F) 95 / 76 WINTER AMBIENT DB (F) 8.0 SUPPLY AIR CFM 2000.0 OUTSIDE AIR CFM 700.0	
	SUPPLY FAN			2000 CFM @ 0.60" ESP 2 HP, 880 RPM, 0.96 BHP		RETURN AIR CFM 1300.0 CLG COIL TOTAL CAPACITY (MBH) 63.5 CLG COIL SENS. CAPACITY (MBH) 47.3 HTG COIL CAPACITY TOTAL (MBH) 59.0 HGRH COIL CAPACITY (MBH) 38.2	
	COMPRESSOR			(1) SINGLE-STAGE SCROLL COMPRESSOR			
	ELECTRIC HEAT	BAYHTR323		18-KW ELECTRIC HEAT (23 KW HEAT KIT)			
	ELECTRICAL DATA			208 VOLT, 3-PHASE, 66.3 MCA, 70 MOCP			
	OPTIONS INCLUDED	HIGH EFFICIENCY R-410 REFRIGERANT SYSTEM, TWO-STAGE HEAT, HOT GAS REHEAT, SINGLE-STAGE COOLING, STAINLESS STEEL CONDENSATE PAN, LOUVERED HAIL GUARDS, FACTORY INSTALLED ELECTRICAL DISCONNECT, PHASE MONITOR, HINGED ACCESS DOORS, FIELD WIRED GFCI CONVENIENCE RECEPTACLE, 2" MERV 8 FILTER(S)					
	CONTROLS	TRANE		BACNET COMPATIBLE WITH PROGRAMMABLE THERMOSTAT INTERFACE		TOTAL UNIT WEIGHT (LBS) 1025.0	
	RTU-3	ROOFTOP AIR CONDITIONER WITH HOT GAS REHEAT AND ELECTRIC HEAT	TRANE	THC060E	15 SEER	NOTES: 1, 2, 3, 4, 5, 6, 10, 11, 12, 13	SUMMER AMBIENT DB / WB (F) 95 / 76 WINTER AMBIENT DB (F) 8.0 SUPPLY AIR CFM 2000.0 OUTSIDE AIR CFM 600.0
	SUPPLY FAN			2000 CFM @ 0.60" ESP 2 HP, 880 RPM, 0.96 BHP		RETURN AIR CFM 1400.0 CLG COIL TOTAL CAPACITY (MBH) 63.5 CLG COIL SENS. CAPACITY (MBH) 47.3 HTG COIL CAPACITY TOTAL (MBH) 59.0 HGRH COIL CAPACITY (MBH) 38.2	
	COMPRESSOR			(1) SINGLE-STAGE SCROLL COMPRESSOR			
ELECTRIC HEAT	BAYHTR323		18-KW ELECTRIC HEAT (23 KW HEAT KIT)				
ELECTRICAL DATA			208 VOLT, 3-PHASE, 66.3 MCA, 70 MOCP				
OPTIONS INCLUDED	HIGH EFFICIENCY R-410 REFRIGERANT SYSTEM, TWO-STAGE HEAT, HOT GAS REHEAT, SINGLE-STAGE COOLING, STAINLESS STEEL CONDENSATE PAN, LOUVERED HAIL GUARDS, FACTORY INSTALLED ELECTRICAL DISCONNECT, PHASE MONITOR, HINGED ACCESS DOORS, FIELD WIRED GFCI CONVENIENCE RECEPTACLE, 2" MERV 8 FILTER(S)						
CONTROLS	TRANE		BACNET COMPATIBLE WITH PROGRAMMABLE THERMOSTAT INTERFACE		TOTAL UNIT WEIGHT (LBS) 1025.0		
RTU-2.4	ROOFTOP AIR CONDITIONER WITH HOT GAS REHEAT AND ELECTRIC HEAT	TRANE	THC036E	15 SEER	NOTES: 1, 2, 3, 4, 5, 6, 10, 11, 12, 13	SUMMER AMBIENT DB / WB (F) 95 / 76 WINTER AMBIENT DB (F) 8.0 SUPPLY AIR CFM 1200.0 OUTSIDE AIR CFM 325.0	
	SUPPLY FAN			1200 CFM @ 0.60" ESP 3/4 HP, 943 RPM, 0.54 BHP		RETURN AIR CFM 875.0 CLG COIL TOTAL CAPACITY (MBH) 37.9 CLG COIL SENS. CAPACITY (MBH) 28.5 HTG COIL CAPACITY TOTAL (MBH) 44.7 HGRH COIL CAPACITY (MBH) 22.7	
	COMPRESSOR			(1) SINGLE-STAGE SCROLL COMPRESSOR			
	ELECTRIC HEAT	BAYHTR318		13-KW ELECTRIC HEAT (18 KW HEAT KIT)			
	ELECTRICAL DATA			208 VOLT, 3-PHASE, 51.6 MCA, 60 MOCP			
	OPTIONS INCLUDED	HIGH EFFICIENCY R-410 REFRIGERANT SYSTEM, TWO-STAGE HEAT, HOT GAS REHEAT, SINGLE-STAGE COOLING, STAINLESS STEEL CONDENSATE PAN, LOUVERED HAIL GUARDS, FACTORY INSTALLED ELECTRICAL DISCONNECT, PHASE MONITOR, HINGED ACCESS DOORS, FIELD WIRED GFCI CONVENIENCE RECEPTACLE, 2" MERV 8 FILTER(S)					
	CONTROLS	TRANE		BACNET COMPATIBLE WITH PROGRAMMABLE THERMOSTAT INTERFACE		TOTAL UNIT WEIGHT (LBS) 773.0	
	HP-1 THRU HP-7	VERTICAL AIR SOURCE HEAT PUMP CLASSROOM VENTILATOR	CHANGEAIR	EHP 36 900 O B	3.0-TON NOMINAL	NOTES: 1, 2, 3, 4, 5, 6, 10, 19	SUMMER AMBIENT DB / WB (F) 96.0 / 78.0 WINTER AMBIENT DB (F) 10.0 SUPPLY AIR CFM 900 OUTSIDE AIR CFM 325
	SUPPLY FAN			900 CFM @ 0.25" ESP (1) 1/2 HP EC MOTORS		RETURN AIR CFM 575 CLG COIL EAT DB / WB (F) 81.0 / 67.2 CLG COIL LAT DB (F) 55.0	
	ENERGY RECOVERY WHEEL EXHAUST AIR FAN			325 CFM (1) 2/3 HP EC MOTORS		CLG COIL TOTAL CAPACITY (MBH) 33.8 CLG COIL SENS. CAPACITY (MBH) 23.1 HTG COIL CAPACITY TOTAL (MBH) 22.3 CLG ERW TOTAL CAPACITY (MBH) 10.6 HTG ERW TOTAL CAPACITY (MBH) 18.5 ELECTRIC HEAT CAPACITY (MBH) 34.13	
COMPRESSOR			(1) TWO-STAGE SCROLL COMPRESSOR				
ELECTRICAL DATA			208 VOLT, 3-PHASE, 46.7 MCA, 60 MOCP				
OPTIONS INCLUDED	HIGH EFFICIENCY R-410 REFRIGERANT SYSTEM, TWO-STAGE HEAT, 10-KW ELECTRIC BACKUP HEAT, HOT GAS REHEAT, TWO-STAGE COOLING, ENERGY RECOVERY WHEEL, CLOSED CELL FOAM INSULATION LINER, FACTORY INSTALLED CONDENSATE PUMP, FACTORY INSTALLED ELECTRICAL DISCONNECT, PHASE MONITOR, HINGED ACCESS DOORS, 2" MERV 8 FILTER(S), WALL LOUVER SIZED FOR UNIT WALL OPENING BY MANUFACTURER						
CONTROLS	CHANGEAIR		BACNET COMPATIBLE WITH PROGRAMMABLE THERMOSTAT INTERFACE		TOTAL UNIT WEIGHT (LBS) 650.0		
ERV-1	STATIC CORE ENERGY RECOVERY SYSTEM	RENEWAIRE			NOTES: 7, 8, 9, 10, 11, 12, 14, 15	SUMMER AMBIENT DB / WB (F) 96.0 / 78.0 WINTER AMBIENT DB (F) 10.0 / 7.7 SUPPLY AIR CFM 700.0	
	STATIC PLATE ENERGY RECOVERY CORE	RENEWAIRE	HE15XRT ECM	(1) STATIC PLATE ENERGY RECOVERY CORE FOR SENSIBLE AND LATENT ENERGY RECOVERY		EXHAUST AIR CFM 700.0 SUMMER EAT DB / WB (F) 75.0 / 62.6 WINTER EAT DB / WB (F) 70.0 / 58.0	
	SUPPLY AIR FAN	RENEWAIRE		700 CFM @ 0.1" E.S.P.		SUMMER TEMPERED LAT DB / WB (F) 80.1 / 69.4 WINTER TEMPERED LAT DB / WB (F) 55.5 / 47.1 WINTER TOTAL RECOVERY EFFECT. 71.0	
	EXHAUST AIR FAN	RENEWAIRE		ELECTRICALLY COMMUTATED MOTOR 700 CFM @ 0.25" E.S.P.		SUMMER TOTAL RECOVERY EFFECT. 62.0	
	ELECTRICAL DATA			208 VOLT, 1-PHASE, 14.0 MCA, 15 MOCP			
	OPTIONS INCLUDED	NON-FUSED DISCONNECT, TRANSFORMER/RELAY PACKAGE, MOTORIZED ISOLATION DAMPERS, ROOF CURB					
	CONTROLS			CONTACTOR PACKAGE		UNIT WEIGHT (LBS.) 500.0	
	ERV-2, 4	STATIC CORE ENERGY RECOVERY SYSTEM	RENEWAIRE			NOTES: 7, 8, 9, 10, 14, 15	SUMMER AMBIENT DB / WB (F) 96.0 / 78.0 WINTER AMBIENT DB (F) 10.0 / 7.7 SUPPLY AIR CFM 325.0
	STATIC PLATE ENERGY RECOVERY CORE	RENEWAIRE	HE1XRTC ECM	(1) STATIC PLATE ENERGY RECOVERY CORE FOR SENSIBLE AND LATENT ENERGY RECOVERY		EXHAUST AIR CFM 325.0 SUMMER EAT DB / WB (F) 75.0 / 62.6 WINTER EAT DB / WB (F) 70.0 / 58.0	
	SUPPLY AIR FAN	RENEWAIRE		325 CFM @ 0.1" E.S.P.		SUMMER TEMPERED LAT DB / WB (F) 79.7 / 69.0 WINTER TEMPERED LAT DB / WB (F) 56.5 / 48.0 WINTER TOTAL RECOVERY EFFECT. 73.0	
EXHAUST AIR FAN	RENEWAIRE		ELECTRICALLY COMMUTATED MOTOR 325 CFM @ 0.1" E.S.P.		SUMMER TOTAL RECOVERY EFFECT. 64.0		
ELECTRICAL DATA			208 VOLT, 1-PHASE, 11.5 MCA, 15 MOCP				
OPTIONS INCLUDED	NON-FUSED DISCONNECT, TRANSFORMER/RELAY PACKAGE, MOTORIZED ISOLATION DAMPERS, TRANSITION KIT TO RTU HORIZONTAL RETURN AIR CONNECTION						
CONTROLS			CONTACTOR PACKAGE		UNIT WEIGHT (LBS.) 250.0		
ERV-3	STATIC CORE ENERGY RECOVERY SYSTEM	RENEWAIRE			NOTES: 7, 8, 9, 10, 14, 15	SUMMER AMBIENT DB / WB (F) 96.0 / 78.0 WINTER AMBIENT DB (F) 10.0 / 7.7 SUPPLY AIR CFM 600.0	
STATIC PLATE ENERGY RECOVERY CORE	RENEWAIRE	HE1XRTC ECM	(1) STATIC PLATE ENERGY RECOVERY CORE FOR SENSIBLE AND LATENT ENERGY RECOVERY		EXHAUST AIR CFM 600.0 SUMMER EAT DB / WB (F) 75.0 / 62.6 WINTER EAT DB / WB (F) 70.0 / 58.0		
SUPPLY AIR FAN	RENEWAIRE		600 CFM @ 0.1" E.S.P.		SUMMER TEMPERED LAT DB / WB (F) 80.6 / 69.9 WINTER TEMPERED LAT DB / WB (F) 53.9 / 45.7 WINTER TOTAL RECOVERY EFFECT. 65.0		
EXHAUST AIR FAN	RENEWAIRE		ELECTRICALLY COMMUTATED MOTOR 600 CFM @ 0.1" E.S.P.		SUMMER TOTAL RECOVERY EFFECT. 58.0		
ELECTRICAL DATA			208 VOLT, 1-PHASE, 11.5 MCA, 15 MOCP				
OPTIONS INCLUDED	NON-FUSED DISCONNECT, TRANSFORMER/RELAY PACKAGE, MOTORIZED ISOLATION DAMPERS, TRANSITION KIT TO RTU HORIZONTAL RETURN AIR CONNECTION						
CONTROLS			CONTACTOR PACKAGE		UNIT WEIGHT (LBS.) 250.0		

MARK	DESCRIPTION	MANUFACTURER	MODEL	FACE SIZE	NECK SIZE	FINISH	REMARKS
EF-1	CEILING MOUNTED EXHAUST FAN	GREENHECK	SP-A90	75 CFM @ 125" SP 29 WATTS, 832 RPM, 0.4 SONES, 115V, 1PH			NOTES: 14, 15, 16, 17 CONTROL-CONSTANT OPERATION UNIT WEIGHT (LBS.) 14.0
EF-2.3	CEILING MOUNTED EXHAUST FAN	GREENHECK	SP-A90	75 CFM @ 125" SP 29 WATTS, 832 RPM, 0.4 SONES, 115V, 1PH			NOTES: 14, 15, 16, 17, 18 CONTROL-OCCUPANCY SENSOR (FACTORY) UNIT WEIGHT (LBS.) 14.0
EF-4	CEILING MOUNTED EXHAUST FAN	GREENHECK	SP-A250	250 CFM @ 125" SP, 83 WATTS, 936 RPM, 2.0 SONES, 115V, 1PH			NOTES: 14, 15, 16, 17 CONTROL-THERMOSTAT (COOL FUNCTION) UNIT WEIGHT (LBS.) 14.0
EF-5	CEILING MOUNTED EXHAUST FAN	GREENHECK	SP-A510	400 CFM @ 25" SP, 224 WATTS, 1003 RPM, 3.5 SONES, 115V, 1PH			NOTES: 14, 15, 16, 17 CONTROL-WALL SWITCH UNIT WEIGHT (LBS.) 14.0

HVAC EQUIPMENT NOTES:

- REFRIGERANT PIPING SHALL BE TYPE "L" COPPER WITH BRAZED JOINTS. INSULATE PIPING WITH UV RATED 1/2" THICK RUBBER CLOSED CELL INSULATION. THESE MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- CONTROL SYSTEM SHALL BE INSTALLED W/ SHIELDED CABLE INSTALLED IN EMT CONDUIT PER ELECTRICAL SPECIFICATIONS AND SHALL BE RUN CONCEALED WITHIN WALLS AND CEILING SPACE.
- UNIT SHALL BE EQUIPPED FOR LOW AMBIENT TEMPERATURE OPERATION.
- UNIT SHALL INCLUDE FACTORY-INSTALLED CONTROLS AND WIRING TO PROVIDE MONITORING AND PROTECTION OF EQUIPMENT FROM: (1) VOLTAGE UNBALANCE; (2) OVER/UNDER VOLTAGE; (3) PHASE LOSS, REVERSAL, INCORRECT PHASE SEQUENCING; (4) RAPID SYSTEM RECYCLING; (5) FIRE ALARM SHUT-DOWN RELAY.
- UNIT SHALL INCLUDE A ONE (1) YEAR PARTS AND LABOR WARRANTY FOR THE UNIT. THE COMPRESSOR SHALL INCLUDE A WARRANTY FOR NOT LESS THAN FIVE (5) YEARS.
- UNIT SHALL BE PROVIDED WITH TWO SETS OF MERV-8, 2" PLEATED FILTERS.
- UNIT CONTROL VOLTAGE SHALL BE 24-VAC. CONTROLS FOR THE UNIT SHALL INCLUDE REQUIRED RELAYS AND CONTACTORS FOR AUTOMATIC CONTROL OF UNIT ON-OFF OPERATION.
- UNIT SHALL INCLUDE ELECTRONIC COMMUTATION MOTOR OPTION.
- POWER SUPPLY SHALL BE AS SHOWN IN SCHEDULE WITH 24 VOLT LOW VOLTAGE CONTROL. POWER FEEDER SHALL BE SINGLE POINT CONNECTION. UNIT SHALL INCLUDE STEPDOWN TRANSFORMER TO POWER ALL 24V CONTROLS FOR THIS UNIT.
- ROOFTOP UNIT AND CURB SHALL INCLUDE PROVISIONS FOR INSTALLING POWER WIRING, RECEPTACLE WIRING, CONTROL WIRING IN CONDUIT FROM BUILDING CEILING SPACE CONCEALED UP THROUGH CURBS TO ROOFTOP CONNECTION POINTS. MECHANICAL CONTRACTOR SHALL INSTALL CONTROL CONDUIT AND WIRING. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT AND WIRING FOR RTU POWER CIRCUITS. FLASH & SEAL CURB WATERTIGHT. CURB SHALL COMPLY WITH ROOFING MANUFACTURER'S SPECIFICATIONS.
- UNIT SHALL INCLUDE 16-INCH HIGH, INSULATED SEISMIC RATED ROOF CURB. CURB TOP SHALL BE LEVEL. SECURE NEW CURB BOTTOM TO BUILDING STRUCTURE. FLASH & SEAL CURB WATERTIGHT. PROPERLY FASTEN THE CURB TO THE BUILDING STRUCTURE FOR SEISMIC RESTRAINT. CONTRACTOR SHALL PROVIDE SUBMITTALS FOR CURBS INDICATING SEISMIC COMPLIANCE. ROOF CURBS FOR UNITS WITH COMPRESSORS SHALL INCLUDE VIBRATION ISOLATION AND NOISE REDUCTION CURB COMPONENTS.
- UNIT SHALL INCLUDE THE FOLLOWING OPTIONS:
12.1. NON-POWERED 115-V GFCI CONVENIENCE OUTLET (FACTORY MOUNTED, FIELD WIRED BY ELECTRICIAN)
12.2. NON-FUSED ELECTRICAL DISCONNECT (FACTORY)
12.3. TWO-STAGE ELECTRIC HEAT (FACTORY)
12.4. HINGED ACCESS PANELS (FACTORY)
12.5. 2" PLEATED FILTERS, MERV-8 (FACTORY)
12.6. THROUGH BASE ELECTRIC CONNECTIONS (FACTORY)
12.7. DEHUMIDIFICATION OPTION (HOT GAS REHEAT) (FACTORY)
12.8. FROST AND CRANKCASE HEATER (FACTORY)
12.9. RETURN AIR SMOKE DETECTOR
12.10. CLOGGED FILTER, FAN FAL SWITCH (FACTORY)
12.11. CONDENSER COIL HAIL GUARDS (FACTORY)
12.12. FACTORY INSTALLED CONTROLS WITH BACNET CAPABILITY AND THERMOSTAT INTERFACE. CONTROLS SHALL INCLUDE INTEGRAL OCCUPANCY SENSOR OR ABILITY TO CONNECT WITH EXTERNAL OCCUPANCY SENSOR FOR VENTILATION CONTROL. CONTROLS SHALL INCLUDE HUMIDISTAT.
- UNIT SHALL BE LISTED WITH THERMAL OVERLOAD AND A FACTORY INSTALLED DISCONNECT SWITCH.
- MOTOR SHALL INCLUDE PERMANENTLY LUBRICATED, SEALED BALL BEARINGS.
- UNIT SHALL INCLUDE ROUND DUCT ADAPTER, BACKDRAFT DAMPER, ISOLATION KIT, ALUMINUM FAN WHEEL, AND FAN SPEED CONTROLLER.
- UNIT SHALL INCLUDE INSULATED HOUSING.
- UNIT SHALL BE CONTROLLED BY FACTORY INSTALLED AND WIRED GRILLE MOUNTED OCCUPANCY SENSOR. FAN RUN TIME DELAY SHALL BE FIELD ADJUSTABLE. UNIT SHALL HAVE GRILLE AS REQUIRED FOR FACTORY MOUNTED OCCUPANCY SENSOR OPTION.
- CLASSROOM PACKAGED HEAT PUMP UNIT SHALL INCLUDE THE FOLLOWING OPTIONS:
18.1. UNIT SHALL INCLUDE FACTORY MOUNTED NON-FUSED ELECTRICAL DISCONNECT.
18.2. UNIT SHALL INCLUDE ENERGY RECOVERY WHEEL.
18.3. UNIT SHALL INCLUDE HINGED ACCESS PANELS, WALL SLEEVE, AND WALL LOUVER. ARCHITECT TO SELECT LOUVER FINISH COLOR.
18.4. UNIT SHALL INCLUDE HOT GAS REHEAT.
18.5. UNIT SHALL INCLUDE TWO-STAGE COMPRESSOR OPERATION.
18.6. UNIT SHALL INCLUDE COMPRESSOR SHROUD FOR SOUND DAMPENING.
18.7. UNIT SHALL INCLUDE A FACTORY INSTALLED, FACTORY-WIRED, FACTORY-PIPED CONDENSATE PUMP INSTALLED IN THE UNIT CABINET TO COLLECT AND DISCHARGE ALL CONDENSATE PRODUCED BY THE UNIT.
18.8. FACTORY INSTALLED CONTROLS WITH BACNET CAPABILITY AND THERMOSTAT INTERFACE. CONTROLS SHALL INCLUDE INTEGRAL OCCUPANCY SENSOR OR ABILITY TO CONNECT WITH EXTERNAL OCCUPANCY SENSOR FOR VENTILATION CONTROL. CONTROLS SHALL INCLUDE HUMIDISTAT.

AIR DEVICE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	FACE SIZE	NECK SIZE	FINISH	REMARKS
A1	SURFACE MOUNTED ALUMINUM FOUR-WAY SUPPLY DIFFUSER WITH ROUND NECK ADAPTER AND ALUMINUM DAMPER	METALAIRE	5500-1-S4-D5A	11 x 11	6x6, 6Ø	WHITE	NOTES: 1, 2
A2	SURFACE MOUNTED ALUMINUM FOUR-WAY SUPPLY DIFFUSER WITH ROUND NECK ADAPTER AND ALUMINUM DAMPER	METALAIRE	5500-1-S4-D5A	14 x 14	9x9, 8Ø	WHITE	NOTES: 1, 2
A3	SURFACE MOUNTED ALUMINUM FOUR-WAY SUPPLY DIFFUSER WITH ROUND NECK ADAPTER AND ALUMINUM DAMPER	METALAIRE	5500-1-S4-D5A	17 x 17	12x12, 10Ø	WHITE	NOTES: 1, 2
A4	GRID MOUNTED ALUMINUM FOUR-WAY SUPPLY DIFFUSER WITH ROUND NECK ADAPTER AND ALUMINUM DAMPER	METALAIRE	5500-6-S4-D5A	24 x 24	6x6, 6Ø	WHITE	NOTES: 1, 2
A5	GRID MOUNTED ALUMINUM FOUR-WAY SUPPLY DIFFUSER WITH ROUND NECK ADAPTER AND ALUMINUM DAMPER	METALAIRE	5500-6-S4-D5A	24 x 24	9x9, 8Ø	WHITE	NOTES: 1, 2
A6	GRID MOUNTED ALUMINUM FOUR-WAY SUPPLY DIFFUSER WITH ROUND NECK ADAPTER AND ALUMINUM DAMPER	METALAIRE	5500-6-S4-D5A	24 x 24	12x12, 10Ø	WHITE	NOTES: 1, 2
A7	SURFACE MOUNTED EXTRUDED ALUMINUM DOUBLE DEFLECTION SUPPLY GRILLE WITH ALUMINUM DAMPER	METALAIRE	V4004-1-0BDA	10W x 8H	8W x 6H	WHITE	NOTES: 1, 2
A8	GRID MOUNTED ALUMINUM GRID CORE (1/2"x1/2"x1/2") RETURN GRILLE WITH ALUM DAMPER	METALAIRE	CC5-6-0BDA	24 x 24	10 x 10	WHITE	NOTES: 1, 2
A9	GRID MOUNTED ALUMINUM GRID CORE (1/2"x1/2"x1/2") RETURN GRILLE WITH ALUM DAMPER	METALAIRE	CC5-6-0BDA	24 x 24	14 x 14	WHITE	NOTES: 1, 2
A10	GRID MOUNTED ALUMINUM GRID CORE (1/2"x1/2"x1/2") RETURN GRILLE WITH ALUM DAMPER	METALAIRE	CC5-6-0BDA	24 x 24	22 x 22	WHITE	NOTES: 1, 2
A11	SURFACE MOUNTED ALUMINUM GRID CORE (1/2"x1/2"x1/2") EXHAUST GRILLE WITH ALUM DAMPER	METALAIRE	CC5-1-0BDA	16 x 16	14 x 14	WHITE	NOTES: 1, 2
A12	SURFACE MOUNTED EXTRUDED ALUMINUM RETURN GRILLE	METALAIRE	RHE-1-0BDA	14 x 8	12 x 6	WHITE	NOTES: 1, 2
A13	SURFACE MOUNTED EXTRUDED ALUMINUM RETURN GRILLE	METALAIRE	RHE-1-0BDA	34 x 20	32 x 18	WHITE	NOTES: 1, 2
A14	GALVANIZED STEEL MANUAL BALANCING DAMPER WITH LOCKING MANUAL QUADRANT	GREENHECK	MBD SERIES	AS REQUIRED	AS REQUIRED	GALVANIZED	NOTE: 3
A15	GALVANIZED STEEL DUCT ACCESS DOOR, CAM STYLE	GREENHECK	CAD SERIES	UP TO 12x12	AS REQUIRED	GALVANIZED	NOTE: 4
A16	GALVANIZED STEEL DUCT ACCESS DOOR, HINGED STYLE	GREENHECK	HAD SERIES	ABOVE 12x12	AS REQUIRED	GALVANIZED	NOTE: 4
A17	GALVANIZED STEEL DYNAMIC RATED FIRE DAMPER FOR USE IN WALL AND PARTITIONS RATED 3 HRS. OR LESS	GREENHECK	DFD SERIES	AS REQUIRED	AS REQUIRED	GALVANIZED	NOTE: 5

- GRILLE SHALL BE FACTORY FINISHED WITH A WASHABLE ENAMEL PAINT. FIELD SPRAY ALL GALVANIZED SHEET METAL AND DAMPERS BEHIND GRILLE WHICH ARE EXPOSED TO SIGHT WITH FLAT BLACK ENAMEL PAINT.
- GRILLE SHALL INCLUDE AN ALUMINUM OPPOSED BLADE DAMPER. THE O.B. DAMPER SHALL BE FINISHED THE SAME AS GRILLE.
- BALANCING DAMPER SHALL INCLUDE A MANUAL ADJUSTMENT LEVER WITH WING NUT LOCK.
- ACCESS DOORS SHALL BE INSTALLED IN DUCTING TO PROVIDE ACCESS TO ALL FIRE DAMPERS, SMOKE DETECTORS, DUCT TEMPERATURE SENSORS, AND ANY OTHER ITEM INSTALLED INSIDE THE DUCTING. SIZE DOOR TO PROVIDE REQUIRED ACCESS. USE 'CAD' SERIES FOR SIZES UP TO 12"x12" AND 'HAD' SERIES FOR LARGER THAN 12"x12" ACCESS OPENINGS.
- FIRE DAMPER SHALL HAVE AN U.L. APPROVED 212" F. FUSIBLE LINK. SELECT FRAME WIDTH AND ACCESSORIES (FRAMES, SLEEVES, ETC.) AS REQUIRED FOR THE FIRE RATED ASSEMBLY BEING PENETRATED. SHALL HAVE OUT OF AIRSTREAM BLADE CONFIGURATION WHENEVER POSSIBLE.

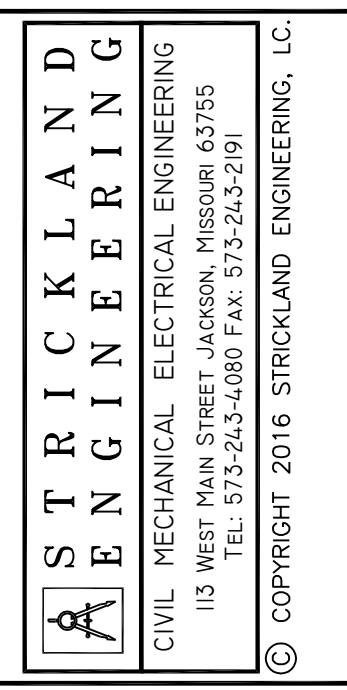
REVISIONS

NO.	DATE	DESCRIPTION



MARK D. STRICKLAND, P.E.
ENGINEER LICENSE NO. 11871

STRICKLAND ENGINEERING, LC
ARKANSAS LICENSE NO. 1005



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MAYNARD SCHOOL DISTRICT
MAYNARD, ARKANSAS 72444

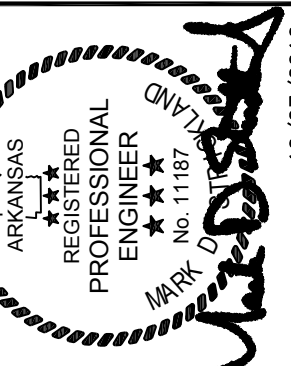
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DATE
10/27/2016
SHEET TITLE
HVAC SYSTEM
JOB NO.
14-089
SHEET

M1.4

NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN REFERENCE TO THE CONTRACT DOCUMENTS. DIMENSIONS PRESENTED SHALL BE PRESENTED TO THE ARCHITECT.



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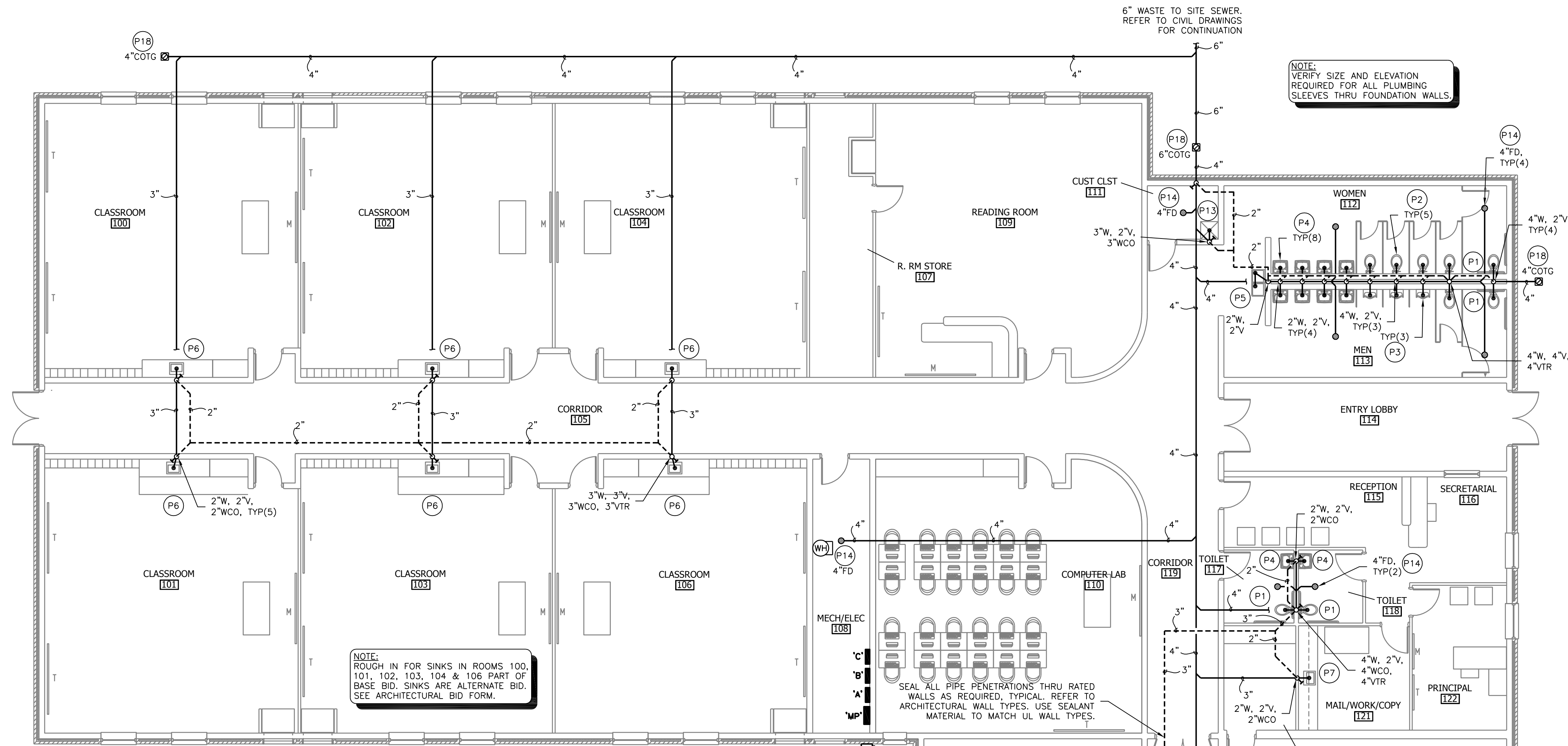
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DATE: 10/27/2016
SHEET TITLE: WASTE & VENT
JOB NO.: 14-089
SHEET

P1.1

NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN REFERENCE TO THE CONTRACT DOCUMENTS. DIMENSIONS SHALL BE PRESENTLY SPECIFIED TO THE ARCHITECT.

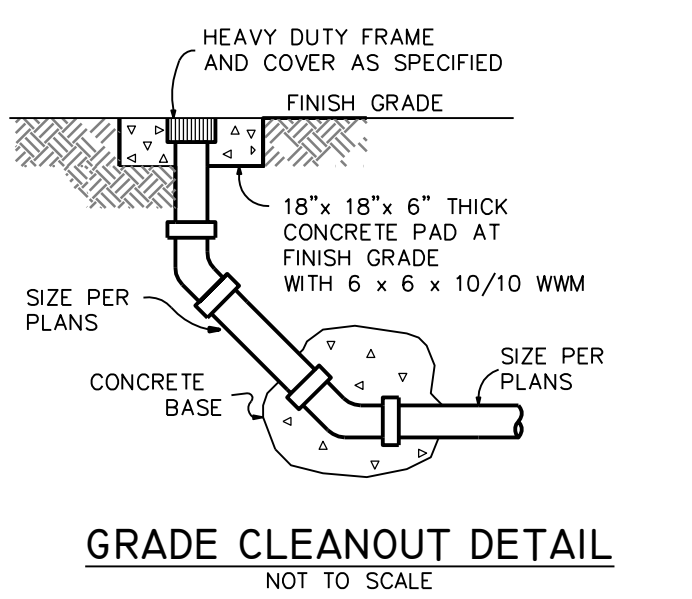
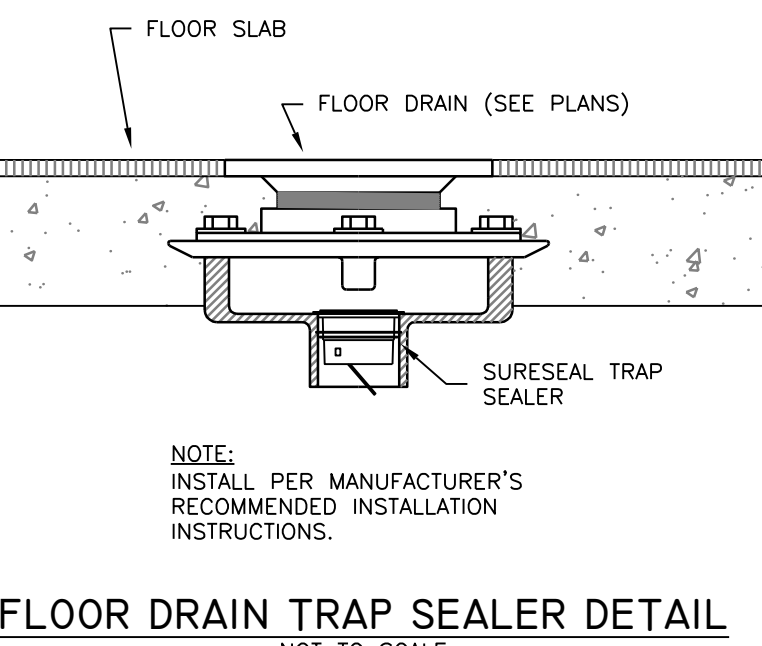


PLUMBING GENERAL NOTES AND SPECIFICATIONS:

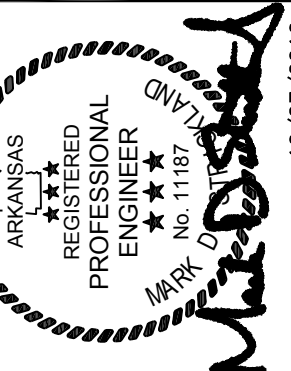
- ALL PLUMBING WORK SHALL COMPLY WITH ALL CURRENT REQUIREMENTS OF FEDERAL, STATE, AND LOCAL CODES.
- ALL PLUMBING WORK SHALL COMPLY WITH THE ADOPTED EDITION OF THE ADOPTED BUILDING CODES, AND ADOPTED ARKANSAS PLUMBING CODE, AND ALL CURRENT REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AS A MINIMUM STANDARD.
- ALL PLUMBING WORK FOR THE EQUIPMENT SHALL BE INSTALLED IN COMPLIANCE WITH THE MANUFACTURER'S SHOP DRAWINGS AND INSTALLATION INSTRUCTIONS. VERIFY EXACT LOCATIONS FOR EQUIPMENT AND LOCATIONS FOR CONNECTIONS TO EQUIPMENT. ALL CONNECTIONS AND CONTROLS FOR EQUIPMENT SHALL BE INSTALLED TO COMPLY WITH THE MANUFACTURER'S SHOP DRAWINGS AND INSTALLATION INSTRUCTIONS.
- PRIOR TO START OF WORK, CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, EQUIPMENT AND SIZES, CLEARANCES, PIPING LOCATION, SIZES AND ELEVATIONS, AND BUILDING CONSTRUCTION.
- WASTE AND VENT PIPING BELOW AND ABOVE FLOORS SHALL BE SCH 40 DWV PVC PLASTIC PIPE WITH SOLVENT CEMENT JOINTS. SECURE PIPING WITH APPROVED HANGERS. PIPING SMALLER THAN 3" SHALL BE INSTALLED WITH 1/4" / FT. MIN. SLOPE. PIPING 3" AND LARGER SHALL BE INSTALLED WITH 1/8" / FT. MIN. SLOPE. CARRIERS FOR WALL HUNG WATER CLOSETS & URINALS SHALL BE CAST IRON.
- DOMESTIC WATER SUPPLY PIPING BELOW THE FLOOR SHALL BE TYPE "K" COPPER OR APPROVED ALTERNATE. DOMESTIC WATER SUPPLY PIPING ABOVE THE FLOOR SHALL BE TYPE-L HARD TEMPER COPPER WITH SOLDERED JOINTS OR APPROVED ALTERNATE. DOMESTIC WATER SUPPLY BRANCH PIPING UNDERFLOOR IN KITCHEN SHALL BE SOFT COPPER TUBING. TUBING SHALL BE INSTALLED WITH NO JOINTS LOCATED BELOW FLOOR SLAB. CONCEAL PIPING IN WALLS, ABOVE CEILING, AND SECURED TO BUILDING FRAMING. DO NOT INSTALL PIPING BELOW THE FLOOR SLAB AFTER THE RISER INTO THE BUILDING EXCEPT AS NOTED. INSULATE PIPING AND PROTECT FROM FREEZING AND CONDENSATION. INSULATION THICKNESS SHALL BE 1" THICK, MINIMUM, FOR HOT WATER & HOT WATER RECIRCULATING, AND 1/2" THICK, MINIMUM, FOR COLD WATER PIPING. INSTALL SHEET METAL INSULATION GUARDS AT ALL PIPE HANGERS ABOVE CEILING.
- INSTALL ALL WORK AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS. COORDINATE WITH OTHER TRADES, AND DETERMINE PROPER ELEVATIONS FOR ALL COMPONENTS. VERIFY EXACT LOCATIONS AND ELEVATION OF ALL WORK. ALL WORK SHALL BE INSTALLED IN A NEAT MANNER USING GOOD WORKMANSHIP AND SHALL BE RIGIDLY SECURED IN PLACE TO PROVIDE THE INTENDED SERVICE.
- ALL PIPING SHALL BE INSTALLED WITH SEISMIC RESTRAINTS TO COMPLY WITH ALL CURRENT REQUIREMENTS OF THE APPLICABLE CODES.
- ALL WATER PIPING SHALL BE INSTALLED CONCEALED WITHIN THE CEILING SPACE ABOVE THE LAY-IN CEILING, EXCEPT PIPING IN MECHANICAL ROOM SHALL BE INSTALLED EXPOSED. COORDINATE LOCATION OF THE PIPING WITH GENERAL, MECHANICAL, FIRE PROTECTION AND ELECTRICAL CONTRACTORS, BUILDING STRUCTURE, LIGHTING FIXTURES AND DUCTWORK. INSTALL PIPING BELOW THE DUCTWORK WHERE POSSIBLE.
- ALL PIPE PENETRATIONS THRU FIRE WALLS SHALL BE FIRESTOPPED IN ACCORDANCE WITH ALL STANDARDS USING U.L. LISTED FIRESTOP MATERIAL. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIREWALLS.
- ALL FLOOR DRAINS, TRENCH DRAINS AND FLOOR SINKS SHALL INCLUDE A TRAP SEALER.
- GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL. GAS PIPING SIZE 2" OR SMALLER MAY BE SCREWED WITH MALLEABLE STEEL SCREWED FITTINGS. GAS PIPING ABOVE 2" SHALL BE WELDED WITH MALLEABLE WELDED FITTINGS. ALL GAS PIPING AND FITTINGS EXPOSED TO THE EXTERIOR SHALL BE PRIMED AND PAINTED YELLOW. INSTALL A.G.A. APPROVED GAS COCK, DIRT LEG, PRESSURE REGULATOR AND FLEXIBLE CONNECTION AT EACH CONNECTION TO EQUIPMENT.
- CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY SUPPLIER FOR SIZE, LOCATION OF GAS METER AND FOR EXTENSION, PIPE SIZE AND CONNECTION TO GAS MAIN.

PLUMBING SYMBOLS

— G — GAS PIPING	— WCO — WALL CLEAN-OUT	— CHECK VALVE, FLOW MARKED
— FW — FILTERED WATER PIPING	— CO — CLEAN-OUT	— UNION
— 140 — 140°F HOT WATER	— WASTE, SOIL, LEADER PIPING	— FREEZE PROOF WATER HYDRANT
— WASTE, SOIL, LEADER PIPING	— COTG — CLEAN-OUT TO GRADE	— F.P.W.H.
— VENT PIPING	— FS — FLOOR SINK	— E.W.C. — ELECTRIC WATER COOLER
— COLD WATER PIPING	— TPV — TRAP PRIMER VALVE	— BALANCING COCK
— HOT WATER PIPING	— TRAP	— GAS COCK
— RECIRCULATED HOT WATER PIPING	— FD — FLOOR DRAIN	— A.F.F. — ABOVE FINISHED FLOOR
— ST — STORM DRAIN PIPING	— FCO — FLOOR CLEAN-OUT	— A.F.R. — ABOVE FINISHED ROOF
— V — VENT	— GATE VALVE	— VENT-THRU-ROOF
— BALL VALVE	— BALL VALVE	— POINT OF CONNECTION - NEW WORK TO EXISTING.



NORTH
1
P1.1
SCALE: 1/8" = 1'-0"
LOWER LEVEL FLOOR PLAN - WASTE & VENT PIPING



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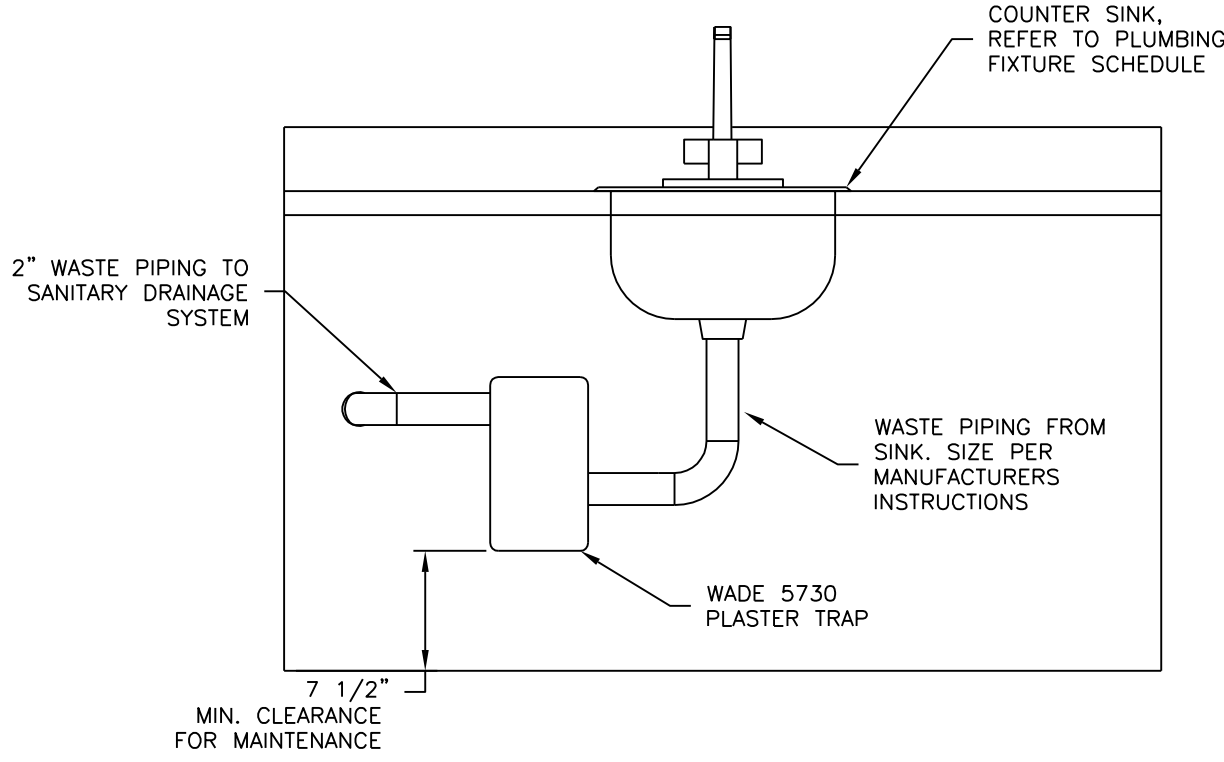
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10/27/2016
SHEET TITLE
WASTE & VENT
JOB NO.
14-089
SHEET

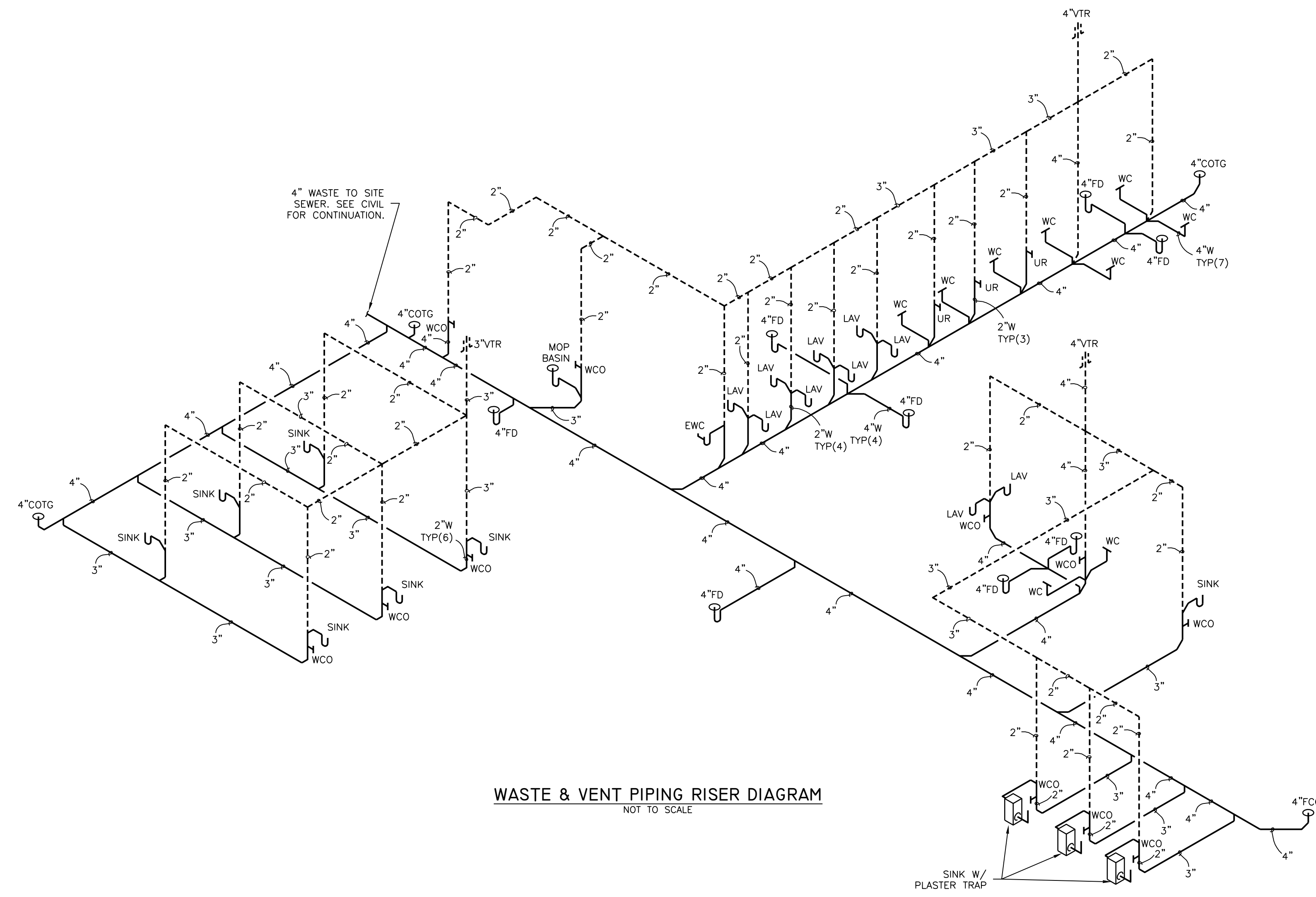
P1.2

PLUMBING FIXTURE SCHEDULE					
MARK	ITEM	MANUFACTURER	MODEL NO.	FITTINGS / ACCESSORIES	REMARKS
P1	MADERA FLOOR MTD., FLUSH VALVE, ADA TOILET	AMERICAN STANDARD	3043.712	TOTO TET1GNC-32 FLUSH VALVE CHURCH 295CT SEAT	1.6 GPF INFRARED FLUSH VALVE, VALVE SUPPORT, SELF-GENERATING, 17" RIM HEIGHT
P2	MADERA FLOOR MTD., FLUSH VALVE, TOILET	AMERICAN STANDARD	3461.712	TOTO TET1GNC-32 FLUSH VALVE CHURCH 295CT SEAT	1.6 GPF INFRARED FLUSH VALVE, VALVE SUPPORT, SELF-GENERATING, 15" RIM HEIGHT
P3	WALL MOUNTED URINAL, ADA	AMERICAN STANDARD	6601.010	TOTO TEU1GNC-12 3/4" TOP SPUD FLUSH VALVE W/ PIPE SUPPORT, WADE 400 CARRIER	1.0 GPF INFRARED VALVE, VALVE SUPPORT, SELF-GENERATING, NOTE 4
P4	WALL MOUNTED LAVATORY ADA	AMERICAN STANDARD	356.015	TOTO TEL105-D10E FAUCET KIT W/ SPOUT & CONTROLLER WALL HUNG, WHITE CHINA, THREE HOLE, FLOOR MOUNTED CARRIER AND TRAP.	INSTALL WITH TRUEBRO WHITE LAV-SHIELD, INFRARED FAUCET, SELF GENERATING, SINGLE SPOUT, 10 SECOND, SEE DRAWING DETAIL, NOTE 4
P5	ELECTRIC WATER COOLER	ELKAY	VRCHDTL8SC	DUAL HEIGHT, STAINLESS STEEL, FRONT PUSH BUTTON, 8 GPH, 120 V, 1-PH VANDAL RESISTANT	INSTALL PER ADA REQUIREMENTS
P6	COUNTER SINK W/BUBBLER	JUST	CRB-2022-ADA-A-GR, SINK, 20"x22", 16"x14" BOWL, JSB-10-FLX BUBBLER	JUST JGN-750 GOOSENECK FAUCET, J-35 DRAIN, P-TRAP, SUPPLIES W/ STOPS, SELF-CLOSING BUBBLER, FLEXIBLE MOUTHGUARD	18 GAUGE, TYPE 304 STAINLESS STEEL, SINGLE COMPARTMENT
P7	COUNTER SINK	JUST	SLN-17519-AGR, 17.5"x19"x7.5"D, 3-HOLE, SELF-RIMMING	JUST JTR-50 SWINGSPOUT FAUCET W/ 4" WRIST BLADE HANDLES, J-35 DRAIN, SUPPLIES W/ STOPS	18 GAUGE, TYPE 304 STAINLESS STEEL, SINGLE COMPARTMENT
P8	COUNTER SINK W/ PLASTER TRAP	JUST	SLN-17519-AGR, 17.5"x19"x7.5"D, 3-HOLE, SELF-RIMMING	JUST JTR-50 SWINGSPOUT FAUCET W/ 4" WRIST BLADE HANDLES, J-35 DRAIN, SUPPLIES W/ STOPS	18 GAUGE, TYPE 304 STAINLESS STEEL, SINGLE COMPARTMENT, W/ WADE 5730 PLASTER TRAP, NOTE 5
P9	COLD WATER SUPPLY	GUY GRAY	MIB	COLD WATER SUPPLY WITH QUARTER TURN SHUTOFF	WITH MOUNTING SCREWS
P10	WALL HYDRANT	WOODFORD	67	STANDARD W/ VACUUM BREAK VERIFY LENGTH	LOOSE KEY OPERATOR, FREEZELESS
P11	HOSE BIBB IN WALL BOX	WOODFORD	B75	STANDARD W/ VACUUM BREAKER AND BOX	RECESSED BOX W/ LOCKING COVER, LOOSE KEY OPERATOR
P12	ELECTRIC WATER HEATER	A.O. SMITH	DRE-120-45	5000 W ELEMENTS, 208V, 3PH, 45 KW	120 GALLON CAPACITY, SET FOR 140°F, P & T RELIEF VALVE.
P13	MOP BASIN	FIAT PRODUCTS	MSB-2424	830-AA FAUCET, VAC. BKR, 832-AA HOSE & BRACKET QDC-3XH QUICK DRAIN E-77-AA VINYL BUMPERGUARDS MSG-2424 STAINLESS STEEL WALL GUARDS	GROUT LEVEL AND SILICONE CAULK ALL CRACKS AT WALL AND FLOOR INSTALL WALL GUARDS
P14	FLOOR DRAIN	ZURN	Z415B	6" N BRONZE STRAINER CAST IRON	SET TO FLOOR FINISH, SIZE TO PIPING, NOTE 1, 2, 3
P15	FLOOR SINK	ZURN	Z1901	12"x12"x8", ALUM. DOME STRAINER, HALF-GRATE, TRAP PRIMER CONN.	SET TO FLOOR FINISH, SIZE TO PIPING, NOTE 2
P16	WALL CLEANOUT	ZURN	Z1469	STAINLESS STEEL COVER	SIZE TO PIPING
P17	FLOOR CLEANOUT	ZURN	Z1400-ZN	NICKEL BRONZE TOP SV HUB OUTLET	SET TO FLOOR FINISH, SIZE TO PIPING, NOTE 1
P18	GRADE CLEANOUT	ZURN	Z1400-Z	CAST IRON TRACTOR TOP SV HUB OUTLET	SET TO FINISH GRADE
P19	ADA SHOWER	BRADLEY	1WCX-ADA EF/SHV	EQUA FLO PRESSURE BALANCED MIXING VALVE, STAINLESS STEEL HOSE SUPPLY INLETS, AND HANDHELD HOSE SHOWER SPRAY	18 GA. TYPE 304 STAINLESS STEEL W/ VERTICAL SHROUD INSTALL PER REQUIREMENTS FOR ADA

PLUMBING FIXTURE SCHEDULE NOTES:
 1 MATCH TOP TO FLOOR FINISH. PROVIDE ROUND STRAINER FOR TOP. VERIFY FLOOR TYPES.
 2 ALL FLOOR DRAINS AND FLOOR SINKS SHALL INCLUDE A TRAP SEALER EQUAL TO SURESEAL MANUFACTURING INLINE FLOOR DRAIN TRAP SEALER.
 3 FLOOR DRAIN STRAINERS TO RECEIVE CONDENSATE AND/OR WATER HEATER DRAINAGE SHALL INCLUDE A FUNNEL.
 4 SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES.
 5 PLUMBING CONTRACTOR SHALL PROVIDE PLASTER TRAP FOR INSTALLATION UNDER SINK. PLUMBER SHALL VERIFY ALL COMPONENTS FOR COMPLETE INSTALLATION.



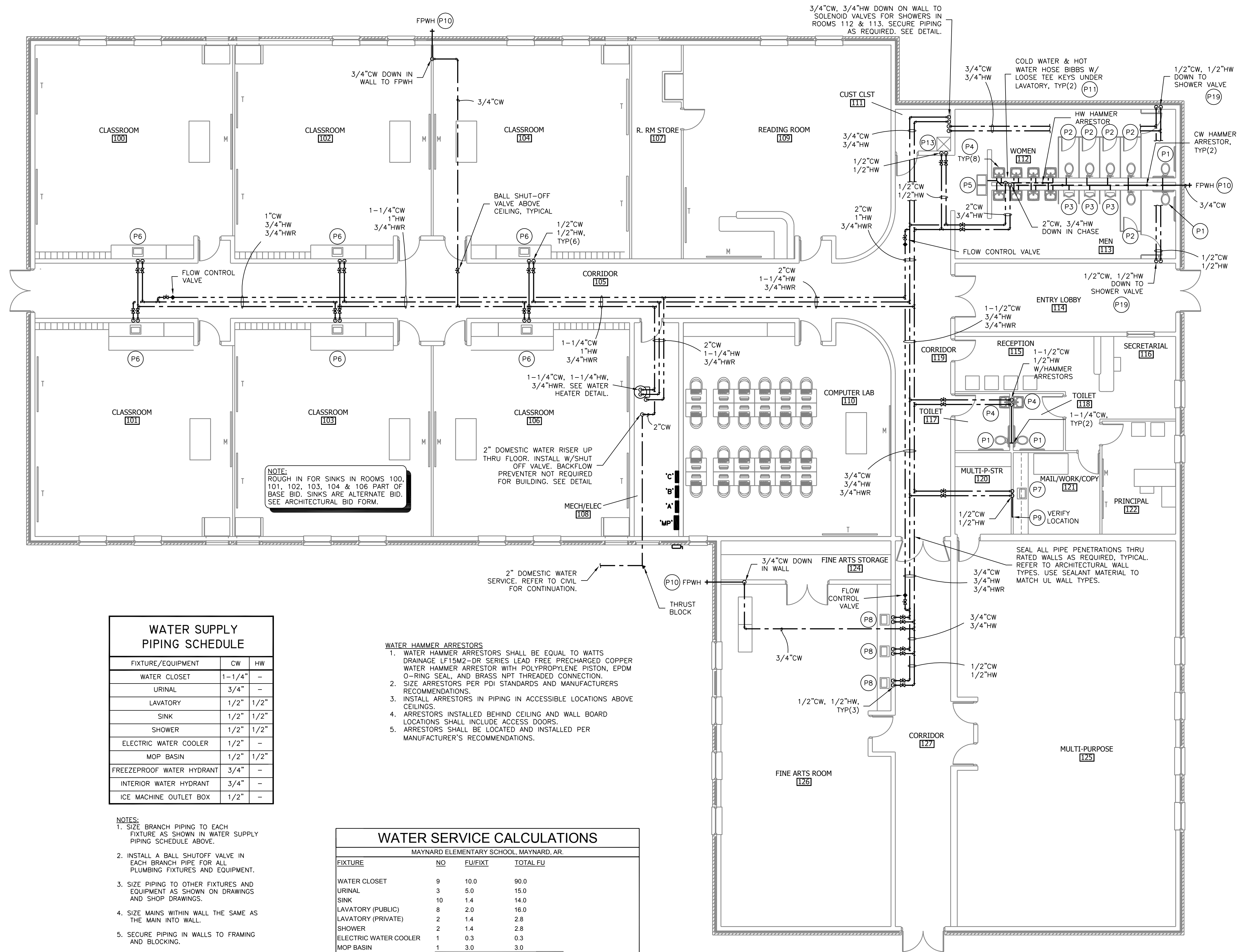
UNDER COUNTER PLASTER TRAP DETAIL
NOT TO SCALE



WASTE & VENT PIPING RISER DIAGRAM
NOT TO SCALE

NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONSULTANT SHALL BE RESPONSIBLE FOR RESOLVING ALL DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN REFERENCE TO THE CONTRACT DOCUMENTS. CONSULTANT SHALL BE IMMEDIATELY ADVISED TO THE ARCHITECT.

NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS IN REFERENCE TO THE CONTRACT DOCUMENTS.



WATER SUPPLY PIPING SCHEDULE		
FIXTURE/EQUIPMENT	CW	HW
WATER CLOSET	1-1/4"	-
URINAL	3/4"	-
LAVATORY	1/2"	1/2"
SINK	1/2"	1/2"
SHOWER	1/2"	1/2"
ELECTRIC WATER COOLER	1/2"	-
MOP BASIN	1/2"	1/2"
FREEZEPROOF WATER HYDRANT	3/4"	-
INTERIOR WATER HYDRANT	3/4"	-
ICE MACHINE OUTLET BOX	1/2"	-

- NOTES:**
1. SIZE BRANCH PIPING TO EACH FIXTURE AS SHOWN IN WATER SUPPLY PIPING SCHEDULE ABOVE.
 2. INSTALL A BALL SHUTOFF VALVE IN EACH BRANCH PIPE FOR ALL PLUMBING FIXTURES AND EQUIPMENT.
 3. SIZE PIPING TO OTHER FIXTURES AND EQUIPMENT AS SHOWN ON DRAWINGS AND SHOP DRAWINGS.
 4. SIZE MAINS WITHIN WALL THE SAME AS THE MAIN INTO WALL.
 5. SECURE PIPING IN WALLS TO FRAMING AND BLOCKING.

- WATER HAMMER ARRESTORS**
1. WATER HAMMER ARRESTORS SHALL BE EQUAL TO WATTS DRAINAGE LF15M2-DR SERIES LEAD FREE PRECHARGED COPPER WATER HAMMER ARRESTOR WITH POLYPROPYLENE PISTON, EPDM O-RING SEAL, AND BRASS NPT THREADED CONNECTION.
 2. SIZE ARRESTORS PER PDI STANDARDS AND MANUFACTURERS RECOMMENDATIONS.
 3. INSTALL ARRESTORS IN PIPING IN ACCESSIBLE LOCATIONS ABOVE CEILINGS.
 4. ARRESTORS INSTALLED BEHIND CEILING AND WALL BOARD LOCATIONS SHALL INCLUDE ACCESS DOORS.
 5. ARRESTORS SHALL BE LOCATED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

WATER SERVICE CALCULATIONS		
MAYNARD ELEMENTARY SCHOOL, MAYNARD, AR.		
FIXTURE	NO	TOTAL FU
WATER CLOSET	9	90.0
URINAL	3	15.0
SINK	10	14.0
LAVATORY (PUBLIC)	8	16.0
LAVATORY (PRIVATE)	2	2.8
SHOWER	2	2.8
ELECTRIC WATER COOLER	1	0.3
MOP BASIN	1	3.0
TOTAL		143.9 WSFU

MAX. PROBABLE FLOW = 78 GPM	
(1) HOSE BIBB IN USE (+5) = 83 GPM	

HEAD LOSSES:	
2" TAP AT 83 GPM	= 0.75
2" SERVICE: 110' X 5.0 PSI/100'	= 5.5
PIPING TO REMOTE FIXTURE = 114' X 3.5 PSI/100'	= 3.99
TOTAL HEAD LOSS	= 10.24 PSI
	= 11 PSI

ASSUMED WATER PRESSURE = 55 PSI @ WATER MAIN
THEREFORE @ MOST REMOTE FIXTURE, PRESSURE = 55 PSI - 11 PSI = 28 PSI
MIN. FLOW PRESSURE REQUIRED @ FIXTURE = 25 PSI



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DATE: 10/27/2016
SHEET TITLE: SUPPLY PIPING
JOB NO.: 14-089
SHEET: P2.1

NO.	DATE	DESCRIPTION



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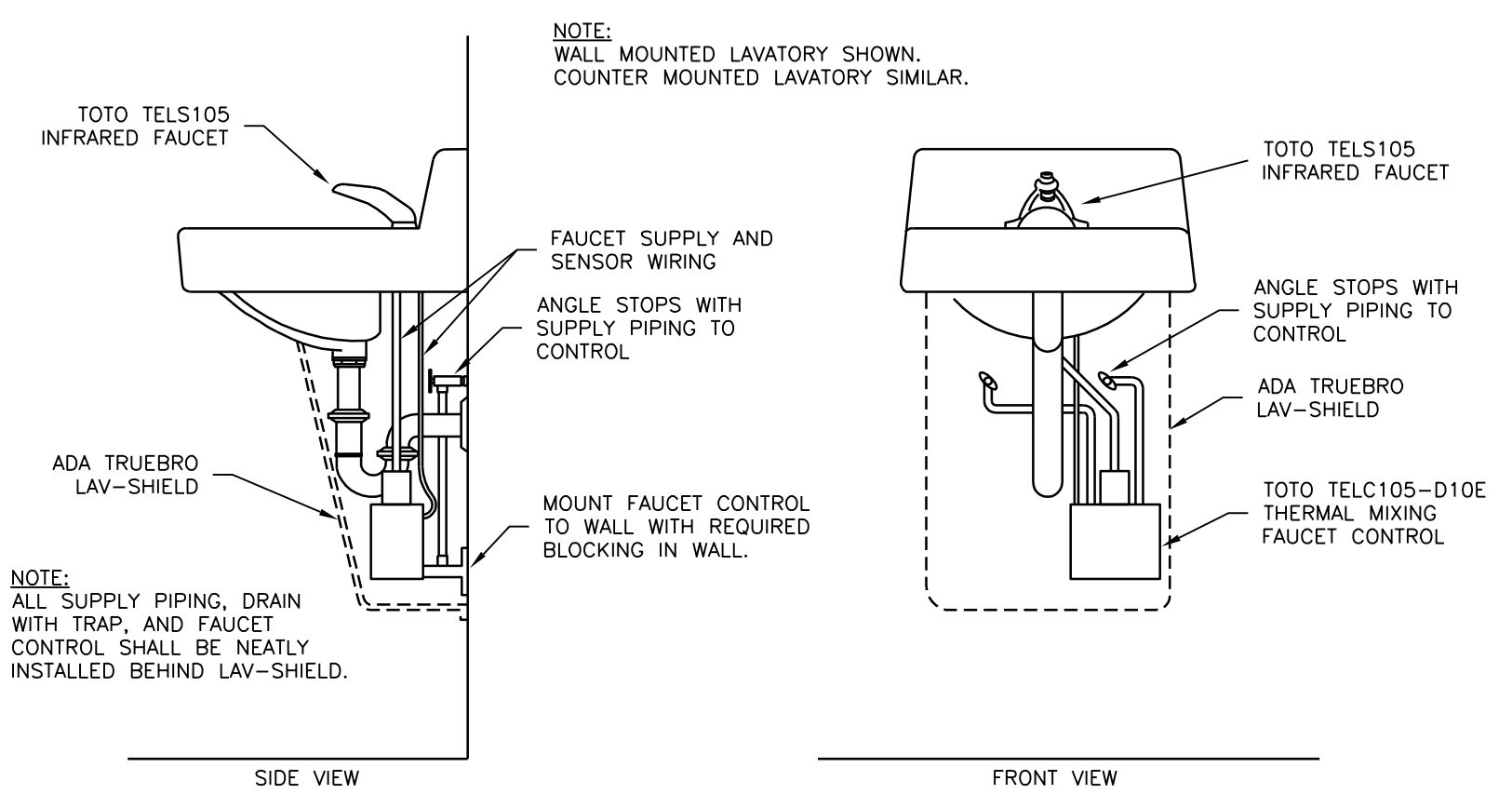
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SHEET TITLE: SUPPLY PIPING
JOB NO.: 14-089
SHEET

P2.2

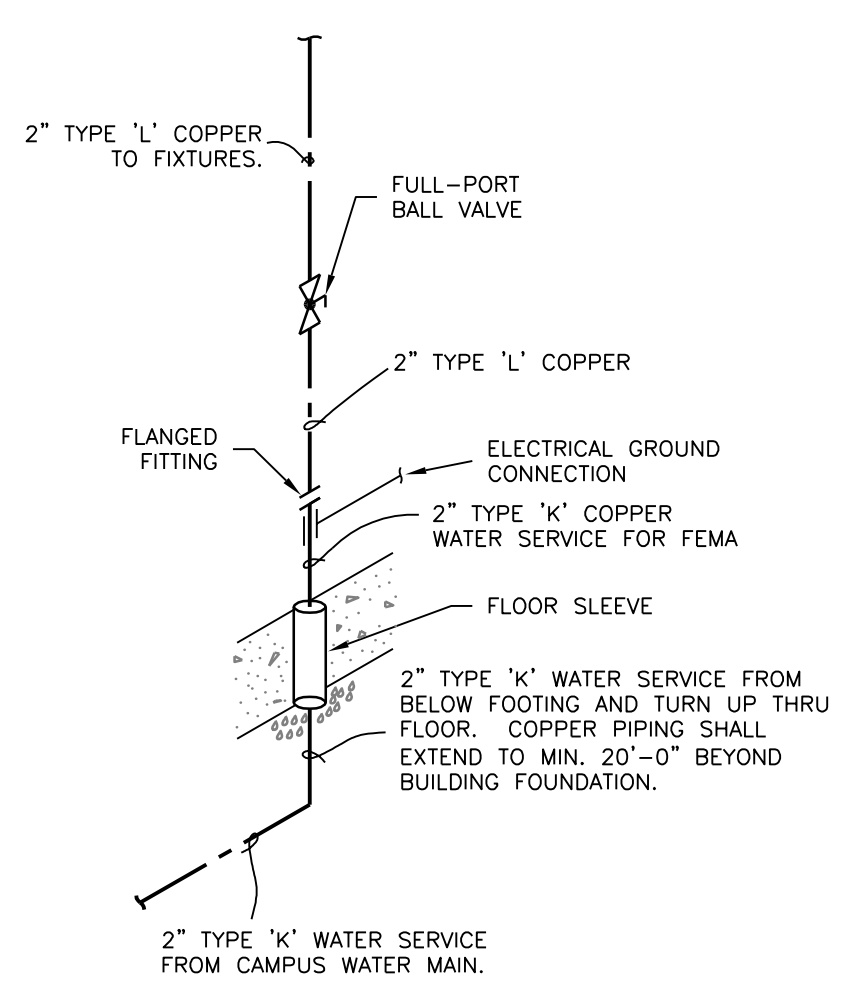
- WATER HEATER DETAIL NOTES:**
- REFER TO DRAWINGS FOR PIPE SIZES.
 - REFER TO SHOP DRAWINGS FOR CONNECTIONS & CONNECTION SIZES TO EQUIPMENT.
 - ANCHOR WATER HEATER, EXPANSION TANK, THERMOSTATIC MIXING VALVE AND ALL PIPING AS REQUIRED TO PREVENT SEISMIC MOVEMENT.
 - SEE ELECTRICAL DRAWINGS FOR 120 VOLT POWER AND CONTROL OF WATER HEATER CIRCULATING PUMP, AQUASTATS, AND AUDIBLE ALARM.

NOTE:
AQUASTAT NO. 1 FOR 120V SUPPLY PIPING SHALL BE SET TO CLOSE A CONTACT IF THE WATER TEMPERATURE EXCEEDS 125°F (ADJUSTABLE). FURNISH AN AUDIBLE ALARM IN MECHANICAL ROOM TO BE WIRED BY THE ELECTRICAL CONTRACTOR TO THE AQUASTAT AND POWERED FROM THE WATER HEATER 120 VOLT CIRCUIT. AQUASTAT SHALL BE FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ALL HIGH VOLTAGE WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR.
AQUASTAT NO. 2 SHALL CONTROL HOT WATER RECIRCULATING PUMP PER LAWLER INSTALLATION INSTRUCTIONS.
SEE CONTROL DIAGRAM, SHOWN ON THE ELECTRICAL DRAWINGS.

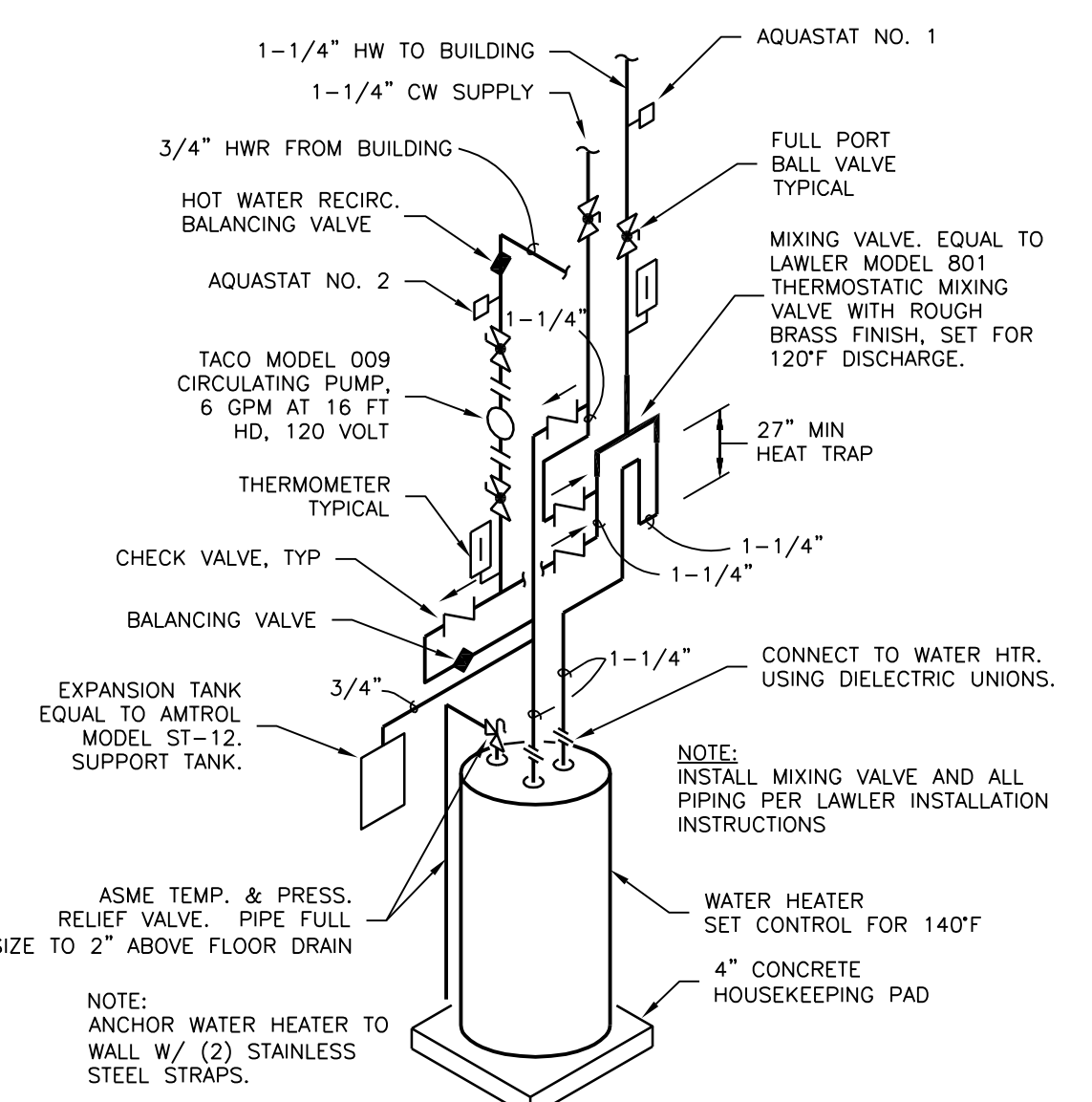


ADA WALL MOUNTED LAV DETAIL
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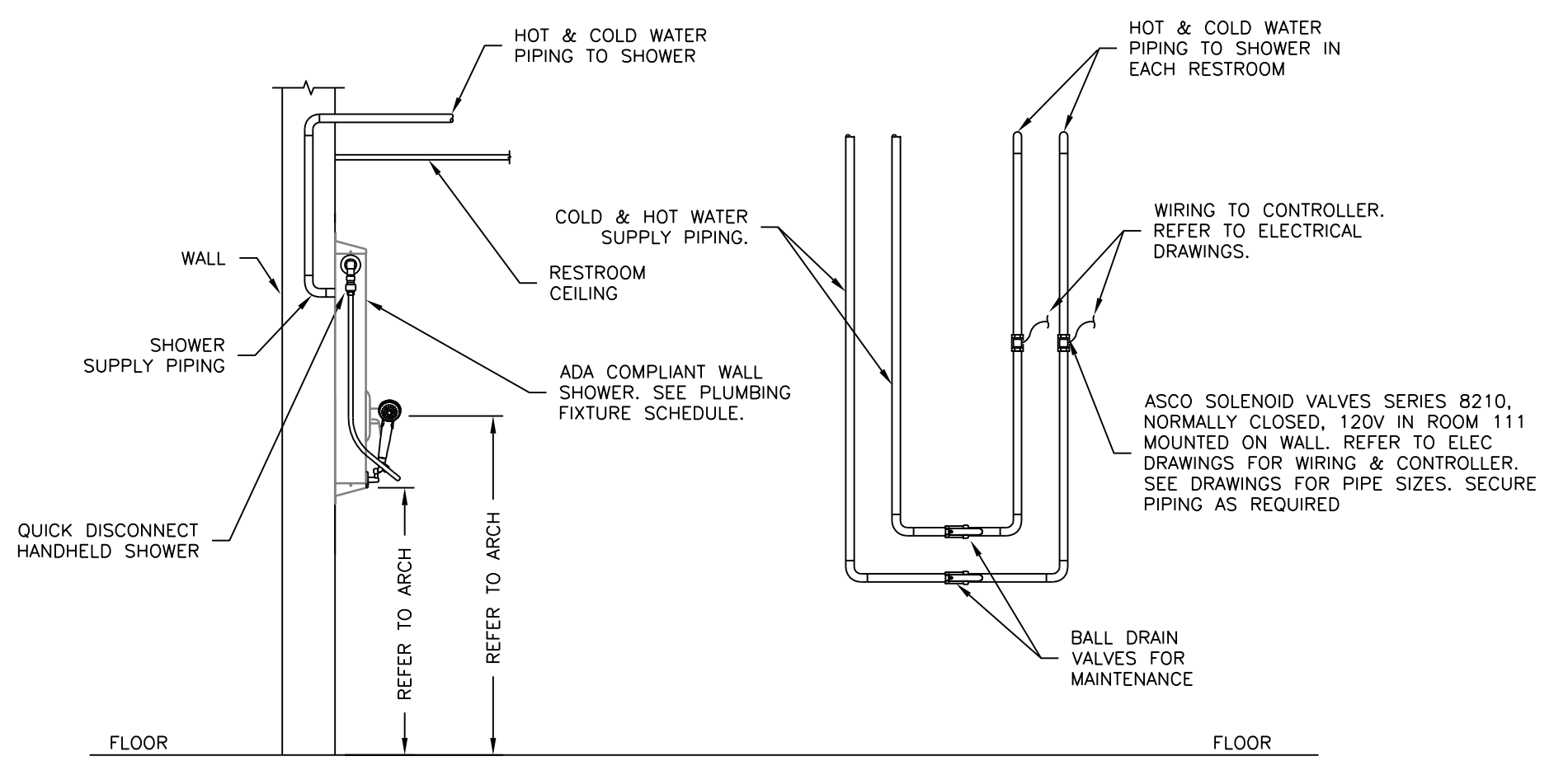
NOTE:
BACKFLOW PREVENTER IS NOT REQUIRED. BACKFLOW PREVENTER IS LOCATED ON CAMPUS WATER MAIN AND SERVES ALL BUILDINGS.



WATER SUPPLY PIPING RISER
NOT TO SCALE



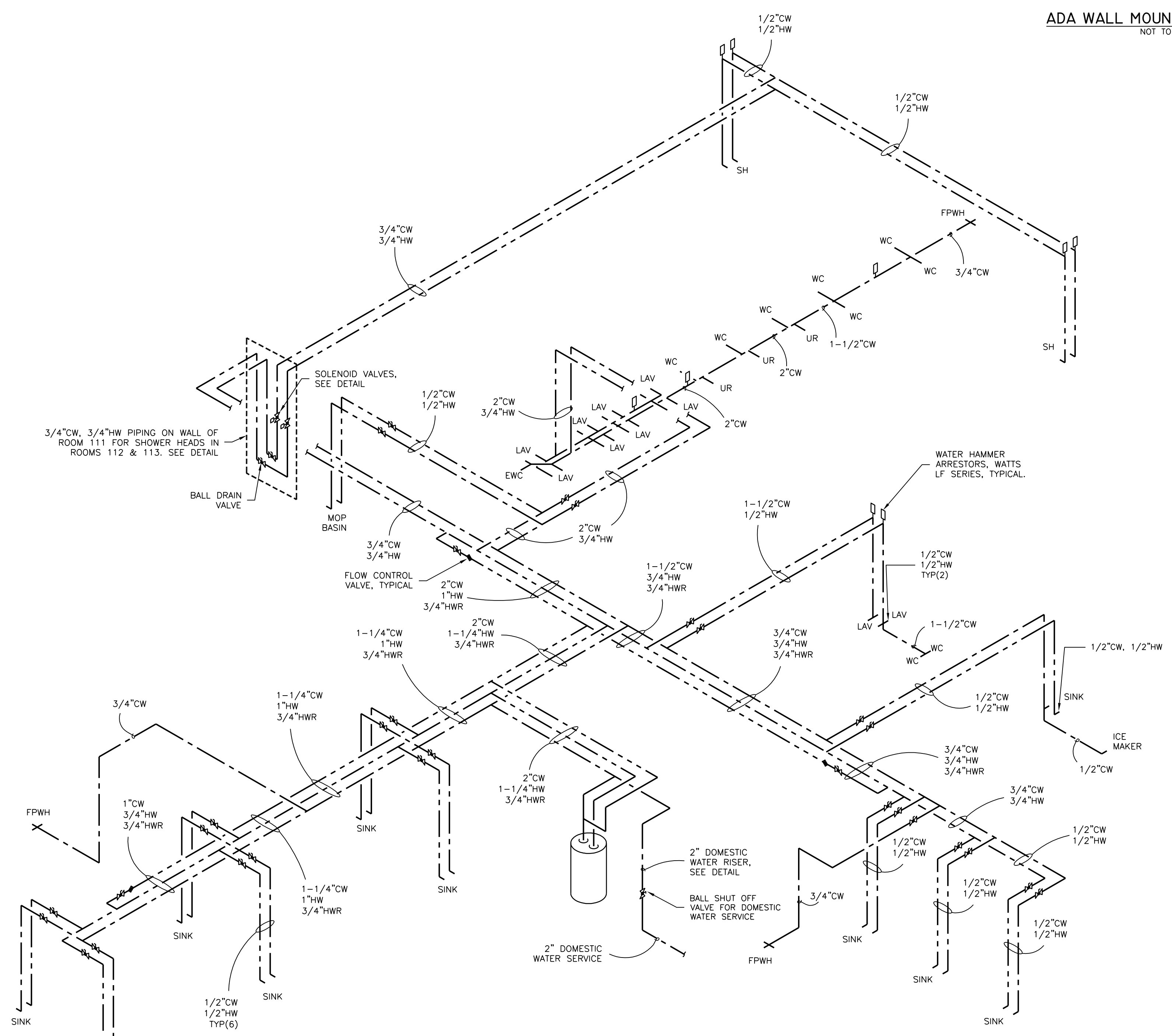
WATER HEATER PIPING DIAGRAM
NOT TO SCALE



REMOTE SHOWER VALVE DETAIL
NOT TO SCALE

- WATER HAMMER ARRESTORS**
- WATER HAMMER ARRESTORS SHALL BE EQUAL TO WATTS DRAINAGE LF15M2-DR SERIES LEAD FREE PRECHARGED COPPER WATER HAMMER ARRESTOR WITH POLYPROPYLENE PISTON, EPDM O-RING SEAL, AND BRASS NPT THREADED CONNECTION.
 - SIZE ARRESTORS PER PDI STANDARDS AND MANUFACTURERS RECOMMENDATIONS.
 - INSTALL ARRESTORS IN PIPING IN ACCESSIBLE LOCATIONS ABOVE CEILING.
 - ARRESTORS INSTALLED BEHIND CEILING AND WALL BOARD LOCATIONS SHALL INCLUDE ACCESS DOORS.
 - ARRESTORS SHALL BE LOCATED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

NOTE:
ALL SUPPLY PIPING, DRAIN WITH TRAP, AND FAUCET CONTROL SHALL BE NEATLY INSTALLED BEHIND LAV-SHIELD.



SUPPLY PIPING RISER DIAGRAM
NOT TO SCALE

NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS IN REFERENCE TO THE CONTRACT DOCUMENTS. DIMENSIONS SHALL BE PRESENTLY SPECIFIED TO THE ARCHITECT.

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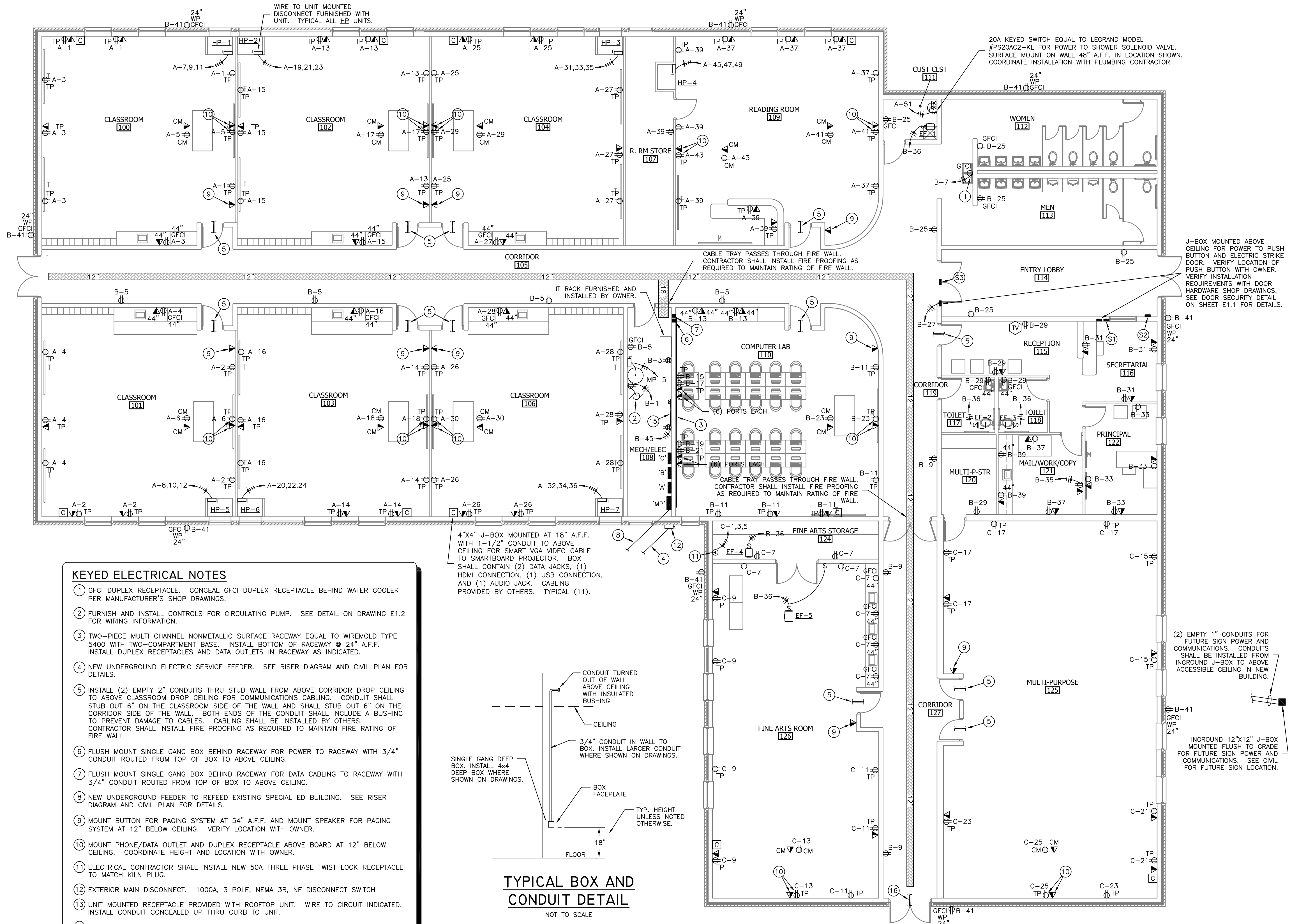
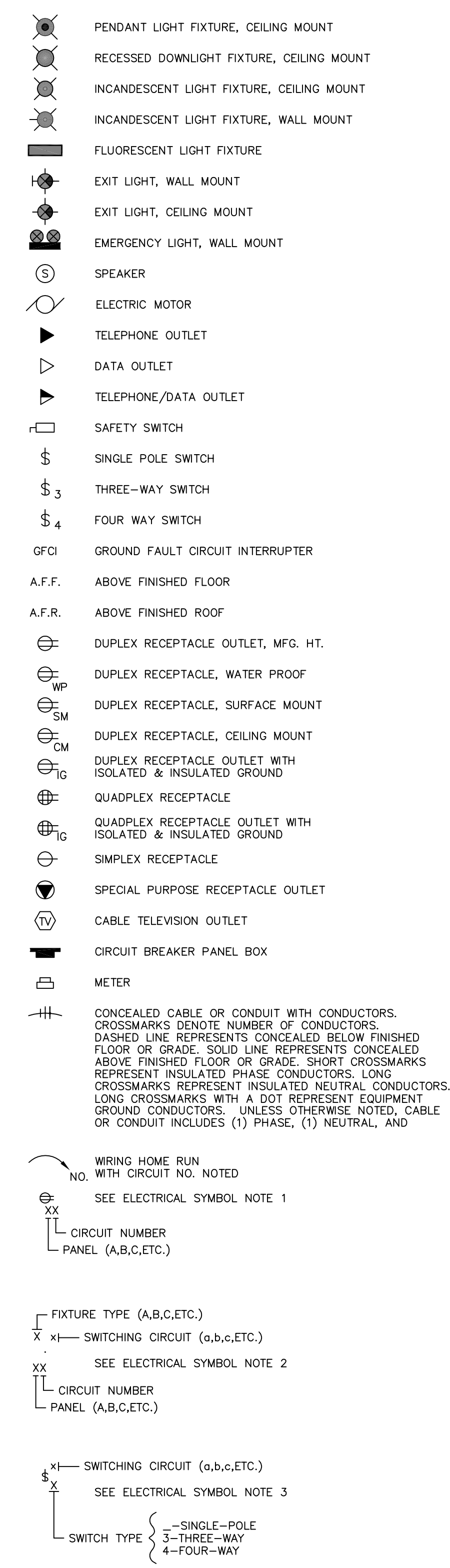
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DATE: 10/27/2016
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JOB NO: 14-089
SHEET

E1.1

ELECTRICAL SYMBOLS



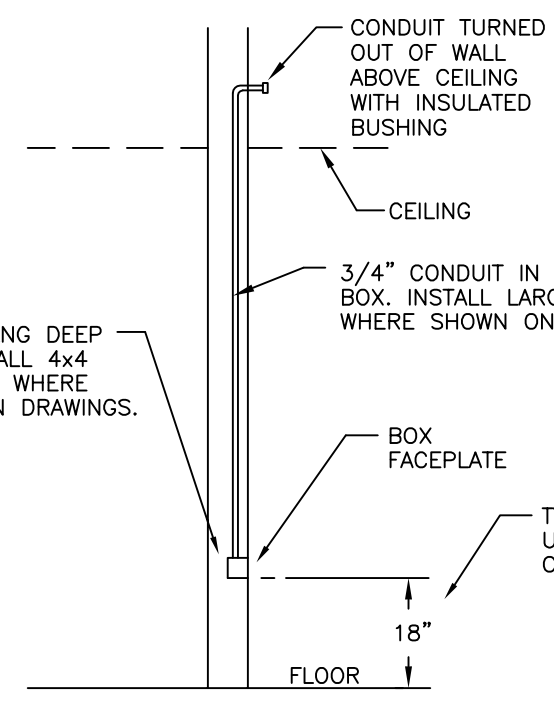
KEYED ELECTRICAL NOTES

- GFCI DUPLEX RECEPTACLE. CONCEAL GFCI DUPLEX RECEPTACLE BEHIND WATER COOLER PER MANUFACTURER'S SHOP DRAWINGS.
- FURNISH AND INSTALL CONTROLS FOR CIRCULATING PUMP. SEE DETAIL ON DRAWING E1.2 FOR WIRING INFORMATION.
- TWO-PIECE MULTI CHANNEL NONMETALLIC SURFACE RACEWAY EQUAL TO WIREMOLD TYPE 5400 WITH TWO-COMPARTMENT BASE. INSTALL BOTTOM OF RACEWAY @ 24" A.F.F. INSTALL DUPLEX RECEPTACLES AND DATA OUTLETS IN RACEWAY AS INDICATED.
- NEW UNDERGROUND ELECTRIC SERVICE FEEDER. SEE RISER DIAGRAM AND CIVIL PLAN FOR DETAILS.
- INSTALL (2) EMPTY 2" CONDUITS THRU STUD WALL FROM ABOVE CORRIDOR DROP CEILING TO ABOVE CLASSROOM DROP CEILING FOR COMMUNICATIONS CABLING. CONDUIT SHALL STUB OUT 6" ON THE CLASSROOM SIDE OF THE WALL AND SHALL STUB OUT 6" ON THE CORRIDOR SIDE OF THE WALL. BOTH ENDS OF THE CONDUIT SHALL INCLUDE A BUSHING TO PREVENT DAMAGE TO CABLES. CABLING SHALL BE INSTALLED BY OTHERS. CONTRACTOR SHALL INSTALL FIRE PROOFING AS REQUIRED TO MAINTAIN FIRE RATING OF FIRE WALL.
- FLUSH MOUNT SINGLE GANG BOX BEHIND RACEWAY FOR POWER TO RACEWAY WITH 3/4" CONDUIT ROUTED FROM TOP OF BOX TO ABOVE CEILING.
- FLUSH MOUNT SINGLE GANG BOX BEHIND RACEWAY FOR DATA CABLING TO RACEWAY WITH 3/4" CONDUIT ROUTED FROM TOP OF BOX TO ABOVE CEILING.
- NEW UNDERGROUND FEEDER TO REFEED EXISTING SPECIAL ED BUILDING. SEE RISER DIAGRAM AND CIVIL PLAN FOR DETAILS.
- MOUNT BUTTON FOR PAGING SYSTEM AT 54" A.F.F. AND MOUNT SPEAKER FOR PAGING SYSTEM AT 12" BELOW CEILING. VERIFY LOCATION WITH OWNER.
- MOUNT PHONE/DATA OUTLET AND DUPLEX RECEPTACLE ABOVE BOARD AT 12" BELOW CEILING. COORDINATE HEIGHT AND LOCATION WITH OWNER.
- ELECTRICAL CONTRACTOR SHALL INSTALL NEW 50A THREE PHASE TWIST LOCK RECEPTACLE TO MATCH KILN PLUG.
- EXTERIOR MAIN DISCONNECT. 1000A, 3 POLE, NEMA 3R, NF DISCONNECT SWITCH
- UNIT MOUNTED RECEPTACLE PROVIDED WITH ROOFTOP UNIT. WIRE TO CIRCUIT INDICATED. INSTALL CONDUIT CONCEALED UP THRU CURB TO UNIT.
- WIRE TO UNIT MOUNTED DISCONNECT FURNISHED WITH ROOFTOP UNIT. INSTALL CONDUIT CONCEALED UP THRU CURB TO UNIT.
- TELEPHONE PANEL SHALL BE A 4"x4"x3/4" PAINTED PLYWOOD PANEL MOUNTED ON WALL AT LOCATION SHOWN ON PLANS. TELEPHONE PANEL SHALL BE USED FOR MOUNTING TELEPHONE SYSTEMS EQUIPMENT WHICH SHALL BE FURNISHED AND INSTALLED BY OTHERS. (2) 2" CONDUITS SHALL BE INSTALLED UNDERGROUND FROM THE PHONE PANEL AND STUBBED OUT 10" OUTSIDE THE BUILDING FOR TELEPHONE AND CABLE SERVICE. VERIFY LOCATION OF CONDUITS.
- CONTRACTOR SHALL INSTALL CONDUIT THROUGH WALL TO EXISTING ELEMENTARY SCHOOL BUILDING ABOVE CANOPY FOR COMMUNICATIONS. VERIFY SIZE AND QUANTITY OF CONDUITS REQUIRED WITH OWNER, MINIMUM OF (2) 3" CONDUITS.

SECURITY SYSTEM NOTES:

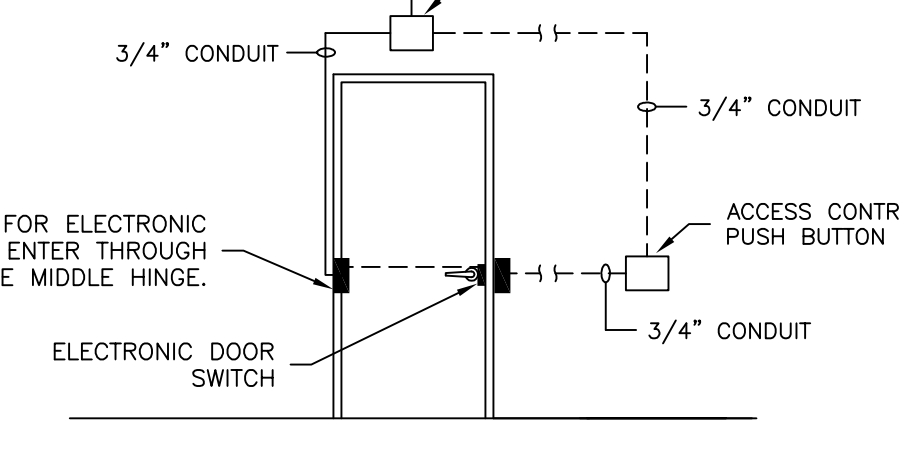
- GENERAL: INSTALL NEW AIPHONE AX SERIES DOOR SECURITY SYSTEM. SYSTEM SHALL BE USED FOR FRONT DOOR ACCESS CONTROL. CONTRACTOR SHALL PROVIDE ALL COMPONENTS FOR A COMPLETE INSTALLATION.
- INSTALL AIPHONE AX-8MV MASTER STATION ON WALL. VERIFY LOCATION WITH OWNER.
 - INSTALL AIPHONE AX-DV DOOR STATION ON WALL. INSTALL AT ADA HEIGHT. VERIFY LOCATION WITH OWNER.
 - INSTALL CONTROLS/RELAYS AS REQUIRED TO RELEASE DOOR LOCK AND ENABLE ADA DOOR OPERATOR. DOOR HARDWARE BY OTHERS.

TYPICAL BOX AND CONDUIT DETAIL



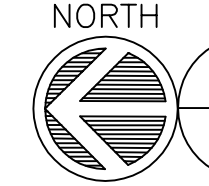
NOTES:

- ALL WIRING SHALL BE INSTALLED CONCEALED.
- COORDINATE INSTALLATION WITH OTHER TRADES.
- VERIFY INSTALLATION REQUIREMENTS WITH DOOR HARDWARE SHOP DRAWINGS.



DOOR SECURITY DETAIL

NOT TO SCALE



FLOOR PLAN - POWER WIRING

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

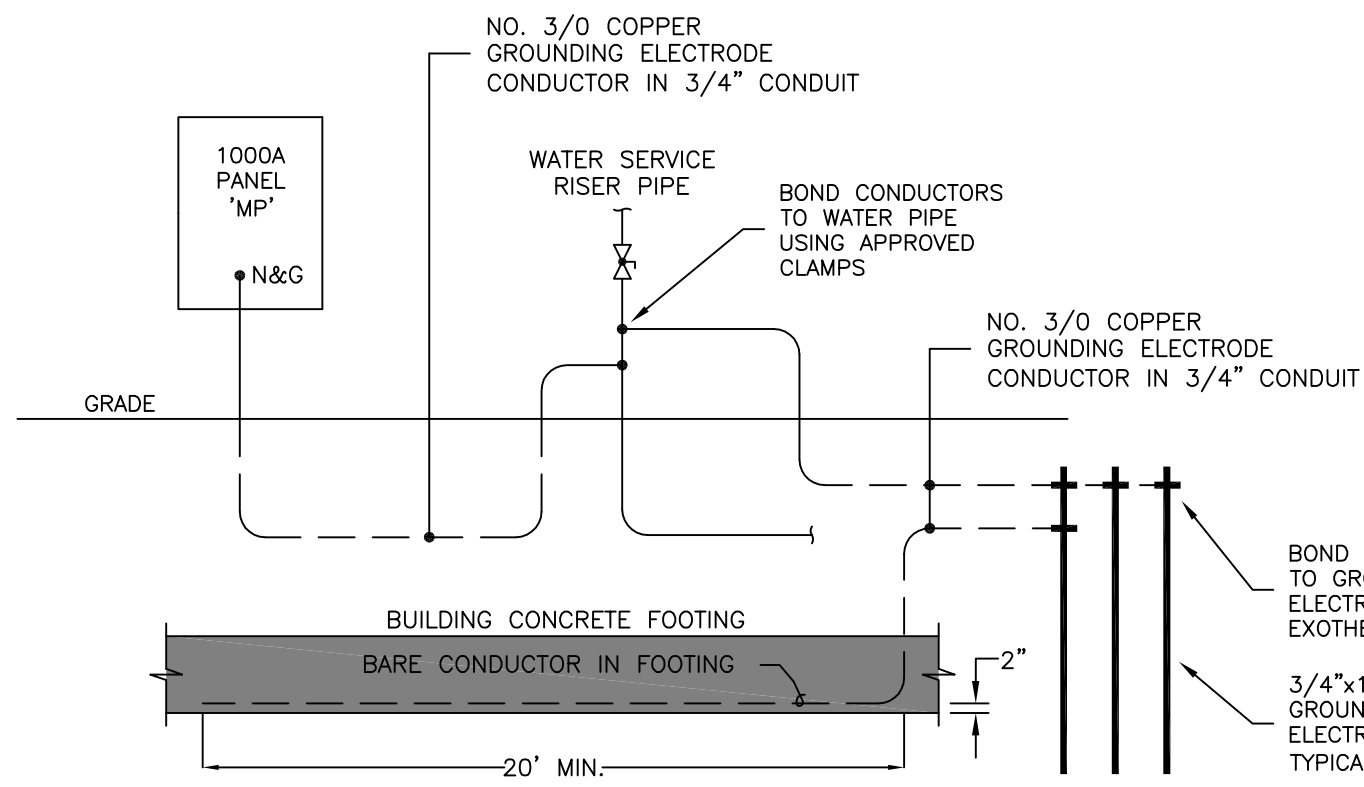
NOTE: CONTRACTOR SHALL BE REQUIRED TO HAVE A PRE-INSTALLATION CONFERENCE WITH THE ARCHITECT, ENGINEER, AND OWNER TO DISCUSS DATA LOCATIONS.

NOTE: FOR ALL PHONE, DATA, AND PHONE/DATA OUTLETS, CONTRACTOR SHALL FURNISH AND INSTALL OUTLET BOX WITH EMPTY CONDUIT TO ABOVE DROP CEILING. SEE TYPICAL BOX AND CONDUIT DETAIL ON E1.1 FOR DETAILS. ALL PHONE AND DATA CABLING, FACEPLATES, IT RACK, AND TERMINATIONS FOR PHONE AND DATA SHALL BE FURNISHED AND INSTALLED BY THE OWNER UNLESS NOTED OTHERWISE IN THE PLANS AND SPECIFICATIONS.

CABLE TRAY GENERAL NOTES:

- THE CABLE TRAY SHALL BE INSTALLED ABOVE THE CEILING AT LOCATIONS SHOWN.
- ALL CABLES FOR EACH TYPE OF SYSTEM (VIDEO, PHONE/DATA, FIRE ALARM, ETC.) SHALL BE GROUPED TOGETHER IN THE CABLE TRAYS USING CABLE TIES.
- ALL OTHER PARTS NECESSARY TO CREATE A COMPLETE CABLE TRAY SYSTEM SHALL BE PROVIDED AS NEEDED.
- COORDINATE CABLE TRAY INSTALLATION WITH ALL OTHER TRADES.
- SEISMIC SUPPORT AND BRACING SHALL BE PROVIDED AS SPECIFIED. SEE SPECIFICATION SECTION 26 0548.

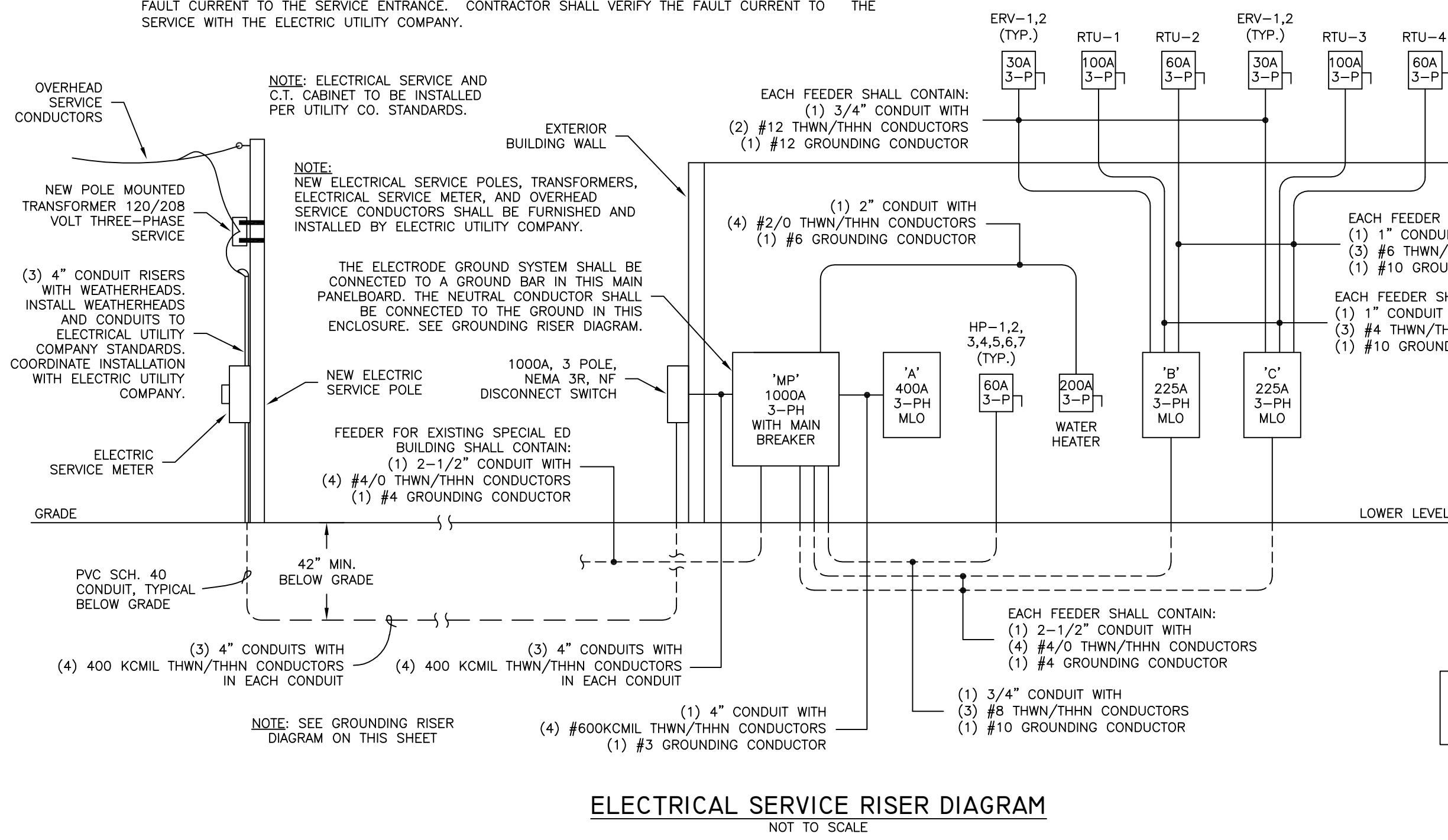
NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN REFERENCE TO THE CONTRACT DOCUMENTS. SHALL BE THE RESPONSIBILITY OF THE ARCHITECT.



ELECTRICAL SERVICE GROUNDING RISER DIAGRAM
NOT TO SCALE

ELECTRICAL SERVICE NOTES:

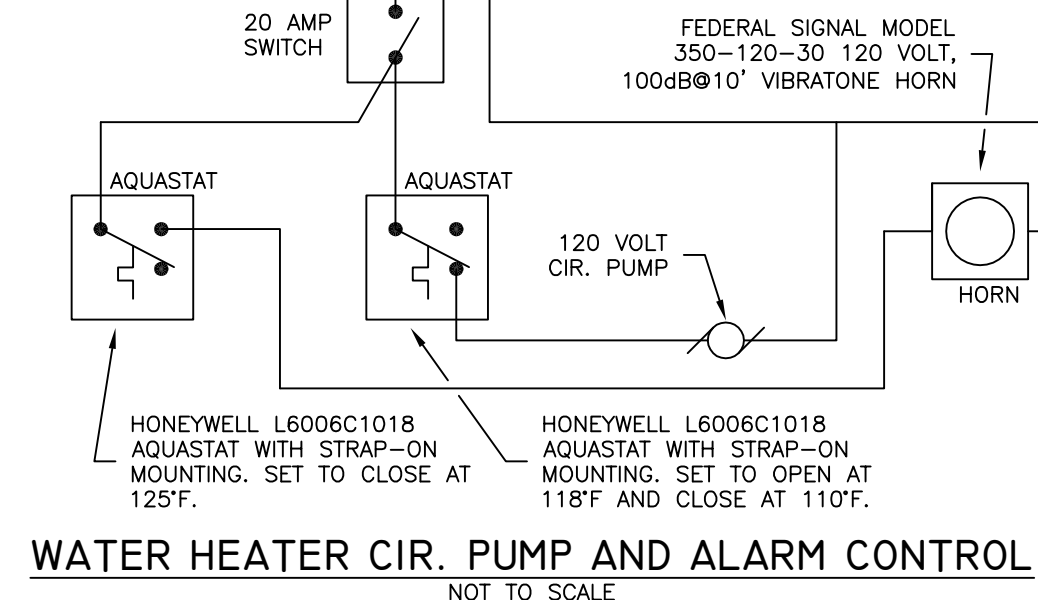
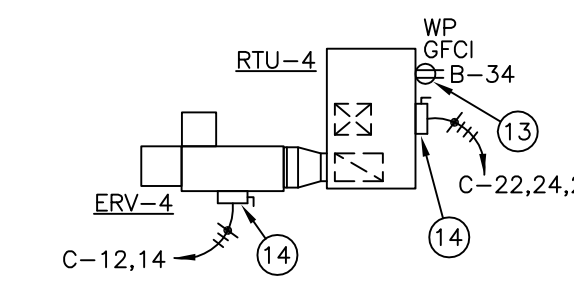
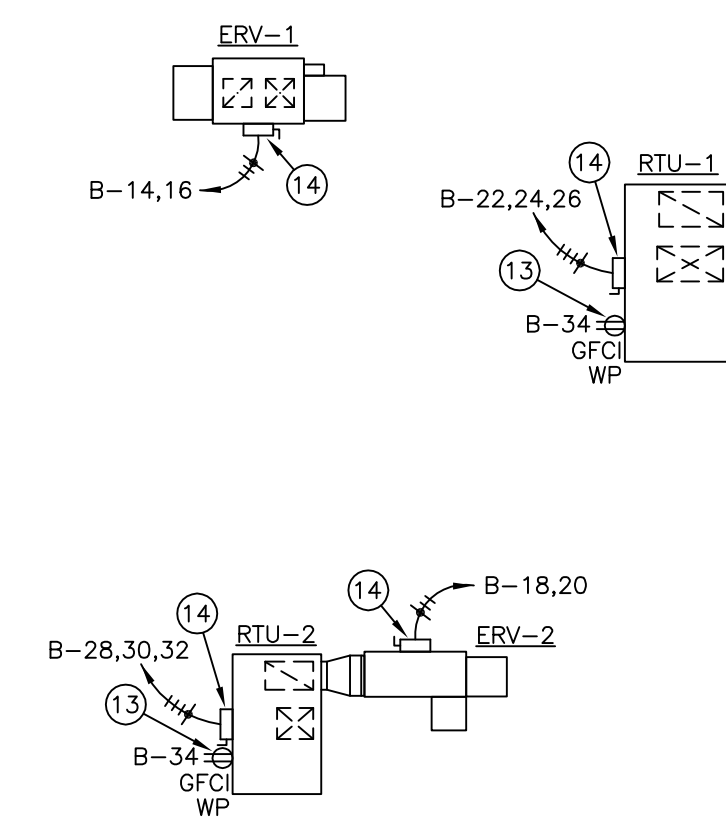
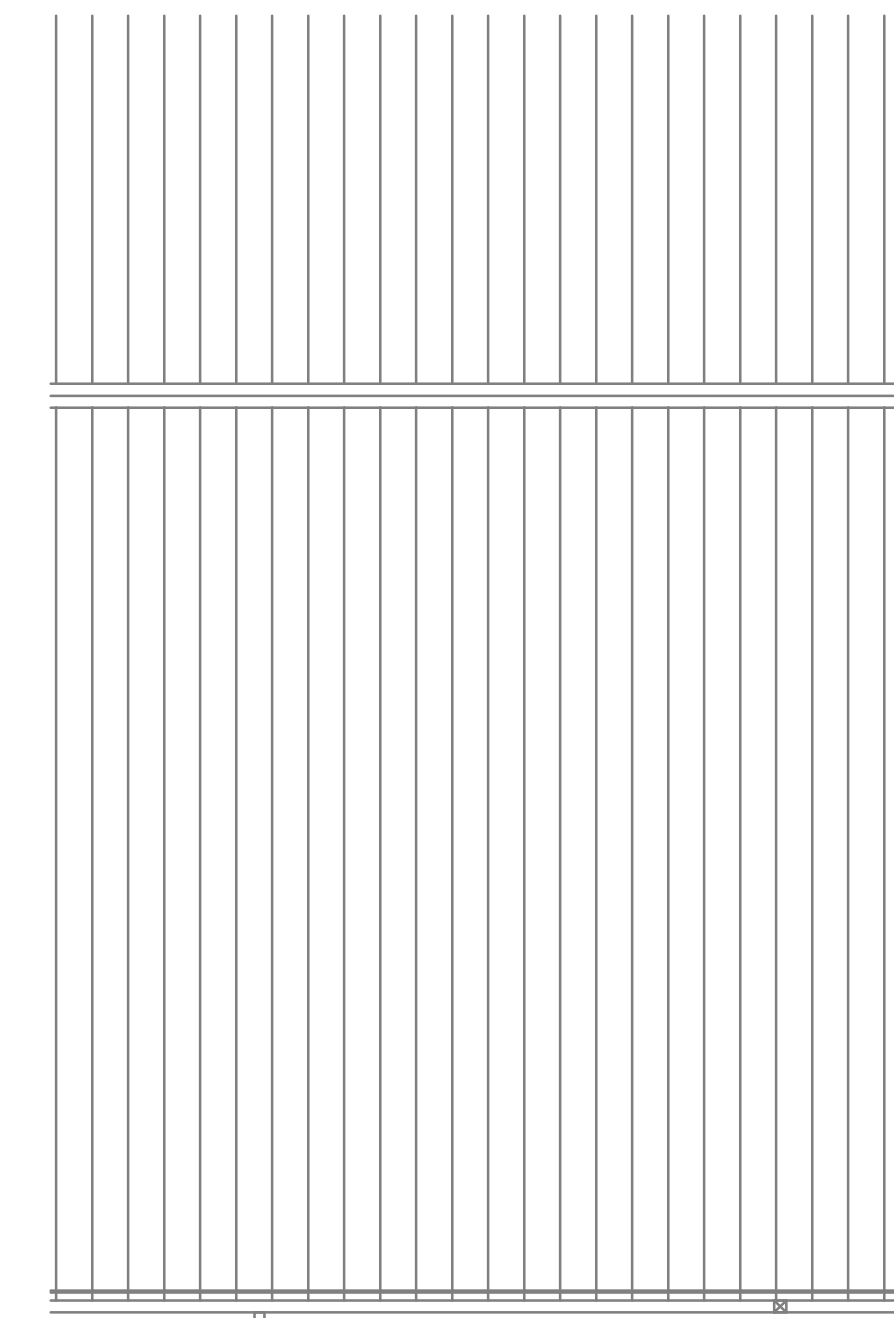
1. VERIFY TRANSFORMER LOCATION WITH UTILITY CO. SEE CIVIL PLAN.
2. VERIFY ELECTRICAL SERVICE AND METERING WITH ELECTRIC UTILITY COMPANY. VERIFY LOCATION OF METER.
3. INSTALL ELECTRICAL SERVICE IN COMPLIANCE WITH THE ELECTRIC UTILITY CO. ELECTRICAL STANDARDS AND SPECIFICATIONS.
4. ALL FEEDER CONDUITS SHALL BE INSTALLED UNDER-GROUND AT MINIMUM 42\"/>



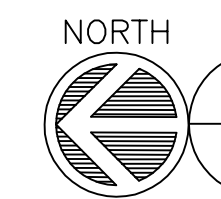
ELECTRICAL SERVICE RISER DIAGRAM
NOT TO SCALE

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL CURRENT REQUIREMENTS OF FEDERAL, STATE, AND LOCAL CODES.
2. ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, 2002, AND ALL CURRENT REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA), AS A MINIMUM STANDARD.
3. ALL WIRING SHALL BE INSTALLED USING PROPERLY SIZED CONDUCTORS IN RACEWAYS, CONDUIT, AND FLEXIBLE CONDUIT. CONDUIT ABOVE GRADE INSIDE THE BUILDING SHALL BE GALVANIZED STEEL ELECTRICAL METALLIC TUBING (EMT) WITH SET SCREW FITTINGS, UNLESS OTHERWISE NOTED. CONDUIT BELOW GRADE AND IN OR BELOW CONCRETE SLABS SHALL BE SCHEDULE 40 PVC, 90 C RATED, WITH FITTINGS REQUIRED TO PROVIDE MOISTURE PROOF JOINTS, UNLESS OTHERWISE NOTED.
4. WIRING AND CABLE SHALL BE RATED AT 600 VOLTS AND 98% CONDUCTIVITY COPPER. MINIMUM SIZE CONDUCTOR FOR LIGHTING AND POWER SHALL BE #12 AWG. CONDUCTORS SIZED #10 AWG AND SMALLER SHALL BE TYPE 'THWN/THHN' SOLID OR STRANDED. CONDUCTORS SIZED #8 AWG AND LARGER SHALL BE TYPE 'THWN/THHN' STRANDED.
5. ALL WIRING DEVICES SHALL BE LISTED BY UNDERWRITERS LABORATORIES AND SHALL BE OF SPECIFICATION GRADE OR BETTER.
6. ALL SAFETY SWITCHES SHALL BE UL LISTED GENERAL DUTY WITH CLASS R FUSES. EXTERIOR SWITCHES SHALL BE NEMA 3R TYPE.
7. ALL ELECTRICAL EQUIPMENT, DEVICES, LIGHTING FIXTURES, AND CONDUIT SHALL INCLUDE SEISMIC SUPPORTS AND RESTRAINTS AS REQUIRED BY APPLICABLE FEDERAL, STATE AND LOCAL CODES TO MEET THE SEISMIC REQUIREMENTS FOR THE PROJECT LOCATION.
8. ALL ELECTRICAL WORK FOR EQUIPMENT SHALL BE INSTALLED IN COMPLIANCE WITH THE MANUFACTURER'S SHOP DRAWINGS, AND INSTALLATION INSTRUCTIONS. VERIFY EXACT LOCATIONS FOR EQUIPMENT & LOCATIONS FOR ELECTRIC FEEDERS TO EQUIPMENT. ALL CONTROL CONDUIT AND WIRING SHALL BE INSTALLED TO COMPLY WITH THE MANUFACTURER'S SHOP DRAWINGS AND INSTALLATIONS INSTRUCTIONS.
9. CAREFULLY LAYOUT ELECTRICAL WORK, COORDINATE WITH OTHER TRADES, AND DETERMINE PROPER ELEVATIONS FOR ALL COMPONENTS. VERIFY EXACT LOCATIONS AND ELEVATION OF ALL ELECTRICAL WORK.
10. WIRING SHALL BE INSTALLED CONCEALED WITHIN WALLS, FLOORS, ABOVE CEILING & IN CHASES. ALL ELECTRICAL WORK SHALL BE INSTALLED IN A NEAT MANNER USING GOOD WORKMANSHIP AND SHALL BE RIGIDLY SECURED IN PLACE TO PROVIDE THE INTENDED SERVICE.



WATER HEATER CIR. PUMP AND ALARM CONTROL
NOT TO SCALE



FLOOR PLAN - ROOF POWER WIRING
SCALE: 1/8\"/>

PANEL #	CIRCUIT DESCRIPTION	KVA LOAD			BREAKER TRIP/POLES	COND.	FEEDER RACEWAY AND CONDUCTORS	
		A	B	C			COND.	CONDUCTORS
1	PANEL A	39.6	39.2	40.9	400/3	CU	4\"/>	

PANEL #	CIRCUIT DESCRIPTION	KVA LOAD			WIRE SIZE	CIRCUIT DESCRIPTION	KVA LOAD		
		A	B	C			A	B	C
1	RCPTS	0.9			2 20/1 #12	RCPTS	0.72		
2	RCPTS	0.72			4 20/1 #12	RCPTS	0.72		1.2
3	PROJECTOR, SMARTBOARD	1.2			6 20/1 #12	PROJECTOR, SMARTBOARD	1.2		1.2

PANEL #	CIRCUIT DESCRIPTION	KVA LOAD			WIRE SIZE	CIRCUIT DESCRIPTION	KVA LOAD		
		A	B	C			A	B	C
1	RCIRC. PUMP	1.2			2 20/1 #12	LIGHTING, LTG	1.07		
2	IT RACK	1.2	1.2		4 20/1 #12	LIGHTING	1.04	1.1	
3	RCPTS	0.9			6 20/1 #12	LIGHTING			1.1

PANEL #	CIRCUIT DESCRIPTION	KVA LOAD			WIRE SIZE	CIRCUIT DESCRIPTION	KVA LOAD		
		A	B	C			A	B	C
1	KILN	4.2			2 20/1 #12	LIGHTING	1.23	0.5	
2	RCPTS	4.2	4.2		4 20/1 #12	MULTI LTG	0.5	0.5	
3	RCPTS	1.44			6 15/2 #12	ERV-2	0.955		

PANEL SCHEDULE NOTES:
1. THIS PANEL SHALL BE EQUAL TO A SQUARE 'D' TYPE 'NO' PANELBOARD WITH TYPE 'LAP' MAIN BREAKER AND TYPE 'JD' (225 A & 400 A) BRANCH BREAKERS.

PANEL SCHEDULE NOTES:
1. THIS PANEL SHALL BE EQUAL TO A SQUARE 'D' TYPE 'NO' PANELBOARD WITH TYPE 'QOB' BRANCH BREAKERS.

PANEL SCHEDULE NOTES:
1. THIS PANEL SHALL BE EQUAL TO A SQUARE 'D' TYPE 'NO' PANELBOARD WITH TYPE 'QOB' BRANCH BREAKERS.
2. CIRCUIT B-12 SHALL INCLUDE A 'HOLD-ON' CLAMP TO ENSURE THAT POWER TO THESE EMERGENCY CIRCUITS REMAINS ON AT ALL TIMES.

PANEL SCHEDULE NOTES:
1. THIS PANEL SHALL BE EQUAL TO A SQUARE 'D' TYPE 'NO' PANELBOARD WITH TYPE 'QOB' BRANCH BREAKERS.

REVISIONS

NO.	DESCRIPTION	DATE



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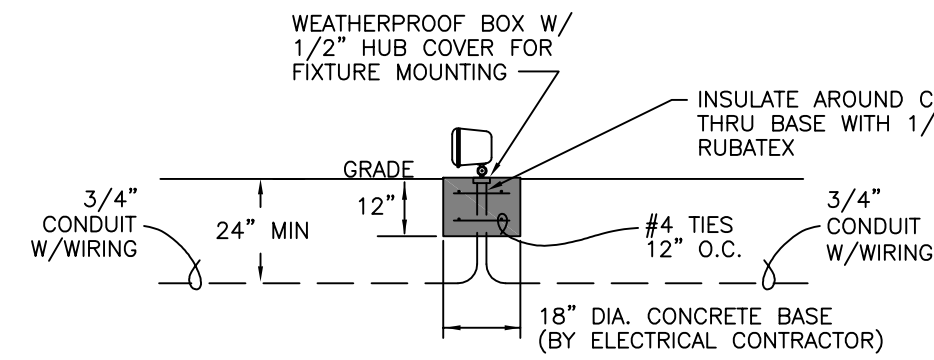
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DATE: 10/27/2016
SHEET TITLE: DETAILS
JOB NO.: 14-089
SHEET: E1.2

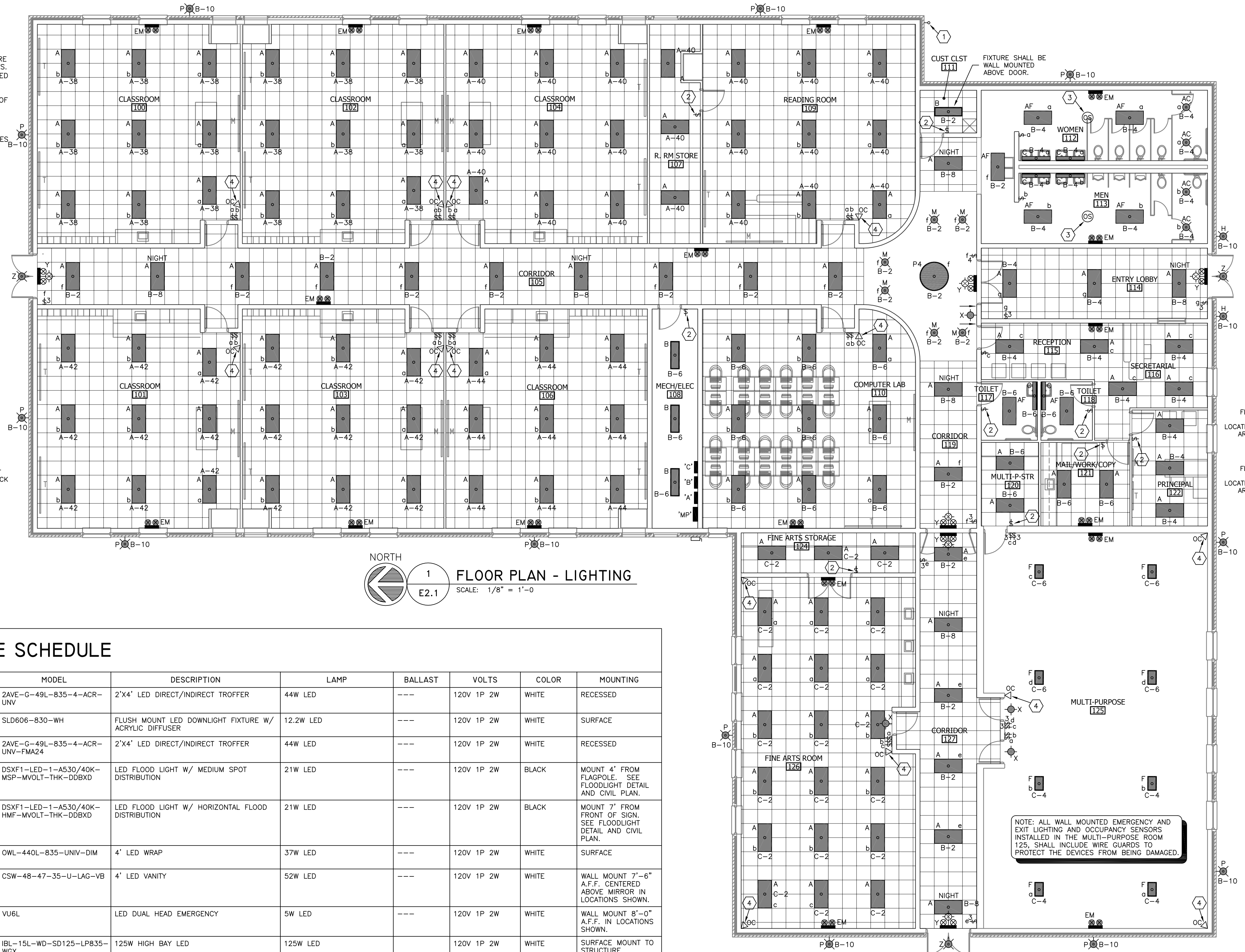
GENERAL LIGHTING NOTES:

1. ALL TYPE 'EM', 'Y' AND 'Z' EMERGENCY LIGHT FIXTURES SHALL BE WIRED TO CIRCUIT 'B-12'. THE CIRCUIT BREAKER FOR THIS EMERGENCY CIRCUIT SHALL INCLUDE A 'HOLD-ON' CLAMP TO ENSURE THAT POWER TO THE EMERGENCY CIRCUIT REMAINS ON AT ALL TIMES.
2. BUILDING 'P', 'AM', AND 'AN' LIGHT FIXTURES SHALL BE CONNECTED TO CIRCUIT B-10 AND WIRED THRU THE PHOTOCELL. VERIFY LOCATION OF PHOTOCELL.
3. ALL 'NIGHT' LIGHT FIXTURES SHALL BE USED FOR NIGHT LIGHTING OF AREAS. POWER WIRING TO THESE FIXTURES SHALL BE WIRED DIRECTLY TO THE INDICATED CIRCUIT BREAKER. NO ADDITIONAL SWITCHING IS REQUIRED.
4. LIGHT FIXTURES AND WIRING DEVICES SHALL BE INSTALLED IN LOCATIONS AS INDICATED ON PLANS. COORDINATE WITH OTHER TRADES BEFORE CONSTRUCTION TO AVOID CONFLICTS IN THE FIELD. IF CONFLICT ARISES, CONTACT THE ENGINEER FOR RESOLUTION.

NOTE: TOP OF CONCRETE FLOOD LIGHT BASE SHALL BE AT FINISHED GRADE. VERIFY EACH FLOOD LIGHT BASE WITH SITE GRADING PLAN.



FLOOD LIGHT DETAIL
NOT TO SCALE



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

LIGHTING FIXTURE SCHEDULE

CALLOUT	SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	LAMP	BALLAST	VOLTS	COLOR	MOUNTING
A	[Symbol]	DAY-BRITE	2AVE-G-49L-835-4-ACR-UNV	2'X4' LED DIRECT/INDIRECT TROFFER	44W LED	---	120V 1P 2W	WHITE	RECESSED
AC	[Symbol]	COOPER	SLD606-830-WH	FLUSH MOUNT LED DOWNLIGHT FIXTURE W/ ACRYLIC DIFFUSER	12.2W LED	---	120V 1P 2W	WHITE	SURFACE
AF	[Symbol]	DAY-BRITE	2AVE-G-49L-835-4-ACR-UNV-FMA24	2'X4' LED DIRECT/INDIRECT TROFFER	44W LED	---	120V 1P 2W	WHITE	RECESSED
AM	[Symbol]	LITHONIA	DSXF1-LED-1-A530/40K-MSP-MVOLT-THK-DOBXD	LED FLOOD LIGHT W/ MEDIUM SPOT DISTRIBUTION	21W LED	---	120V 1P 2W	BLACK	MOUNT 4' FROM FLAGPOLE. SEE FLOODLIGHT DETAIL AND CIVIL PLAN.
AN	[Symbol]	LITHONIA	DSXF1-LED-1-A530/40K-HMF-MVOLT-THK-DOBXD	LED FLOOD LIGHT W/ HORIZONTAL FLOOD DISTRIBUTION	21W LED	---	120V 1P 2W	BLACK	MOUNT 7' FROM FRONT OF SIGN. SEE FLOODLIGHT DETAIL AND CIVIL PLAN.
B	[Symbol]	DAY-BRITE	OWL-440L-835-UNV-DIM	4' LED WRAP	37W LED	---	120V 1P 2W	WHITE	SURFACE
C	[Symbol]	DAY-BRITE	CSW-48-47-35-U-LAG-VB	4' LED VANITY	52W LED	---	120V 1P 2W	WHITE	WALL MOUNT 7'-6" A.F.F. CENTERED ABOVE MIRROR IN LOCATIONS SHOWN.
EM	[Symbol]	CHLORIDE	VU6L	LED DUAL HEAD EMERGENCY	5W LED	---	120V 1P 2W	WHITE	WALL MOUNT 8'-0" A.F.F. IN LOCATIONS SHOWN.
F	[Symbol]	LITHONIA	IBL-15L-WD-SD125-LP835-WGX	125W HIGH BAY LED	125W LED	---	120V 1P 2W	WHITE	SURFACE MOUNT TO STRUCTURE. COORDINATE W/ ARCHITECT
H	[Symbol]	SHAPER	673-25-WP-L4/840-120V-ALP-2HTB/2VTB	OUTDOOR LED WALL SCONCE	29W LED	---	120V 1P 2W	ALUMINUM	WALL MOUNT CENTER OF FIXTURE 6'-0" A.F.F.
M	[Symbol]	HALO	H750ICAT-ML5612935-692H	6" RECESSED LED CAN	17.5W LED	---	120V 1P 2W	WHITE	RECESSED
P	[Symbol]	INVUE	ENT-B02-LED-E1-BL3-BZ	LED ARCHITECTURAL WALL PACK	(2) 25.5W 21 LED LIGHTBARS	ELECTRONIC LED DRIVER	120V 1P 2W	BRONZE	WALL MOUNT 10' TO BOTTOM OF FIXTURE AT LOCATIONS SHOWN
P4	[Symbol]	FOCAL POINT	FSDL-44-FLXP-9000L-35K-1C-UNV-LD1-U-WH	4' ROUND LED RECESSED MOUNT FIXTURE	94W LED	---	120V 1P 2W	SATIN WHITE	RECESSED
X	[Symbol]	SURE-LITES	LPX7	POLYCARBONATE LED EXIT, UNIVERSAL MOUNT	(1) RED LED	---	120V 1P 2W	WHITE	WALL MOUNT AT 8'-0" A.F.F.
Y	[Symbol]	CHLORIDE	S25L-1RW-IC-H12-2	LED EXIT EMERGENCY COMBO	12W LED	---	120V 1P 2W	WHITE	WALL MOUNT 7'-6" A.F.F. IN LOCATIONS SHOWN ON DRAWINGS.
Z	[Symbol]	DUAL LITE	PG-2-HTR	WALL MOUNT EMERGENCY LED FIXTURE	15W LED	---	120V 1P 2W	DARK BRONZE	WALL MOUNT BOTTOM OF FIXTURE 8'-0" A.F.F. IN LOCATIONS SHOWN

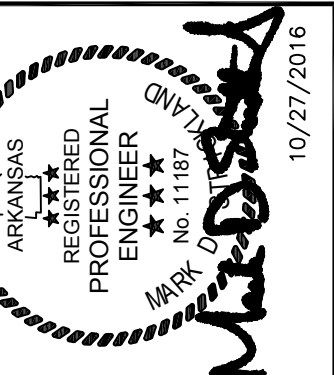
LIGHT FIXTURE SCHEDULE NOTES:

1. ALL FIXTURES SHALL INCLUDE SHIELDING AND GASKETING TO PREVENT LIGHT LEAKS.
2. ALL LEDS SHALL HAVE A COLOR TEMPERATURE OF 3500K UNLESS OTHERWISE NOTED.
3. ALL INCANDESCENT LAMPS SHALL BE RATED 130 VOLT.

ELECTRICAL ACCESSORIES SCHEDULE

MARK	ITEM	MANUFACTURER & MODEL	SPECIFICATIONS & REMARKS
①	PHOTOCONTROL	TORK 2107	15A, 120-277 VOLT, SPST, UL RATED MOUNT ON EXTERIOR WALL OF BUILDING AT LOCATION SHOWN NEAR ROOF LINE. SHIELD AS REQ'D.
②	WALL MOUNT OCCUPANCY SENSOR	LEGRAND RWU600WCC4	PIR SENSING W/ ADJUSTABLE TIME DELAY AND AUTO-ON OR MANUAL-ON OPERATION.
③	ULTRASONIC CEILING OCCUPANCY SENSOR W/ POWER PACK	WATT-STOPPER DT-305 W/ BZ-50	12SEC.-30 MIN. DELAY W/ 120V RATED POWER PACK SURFACE MOUNT ON CEILING AT LOCATIONS SHOWN W/ POWER PACK MOUNTED TO SENSOR BACKBOX.
④	ULTRASONIC WALL OCCUPANCY SENSOR W/ POWER PACK	WATT-STOPPER DT-205 W/ BZ-50	12SEC.-30 MIN. DELAY W/ 120V RATED POWER PACK SURFACE MOUNT ON WALL JUST BELOW CEILING IN LOCATIONS SHOWN ON DRAWINGS.

REVISIONS



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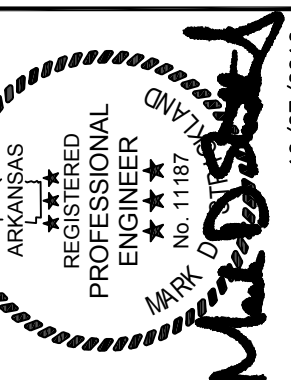
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JOB NO.: 14-089
SHEET

E2.1

REVISIONS

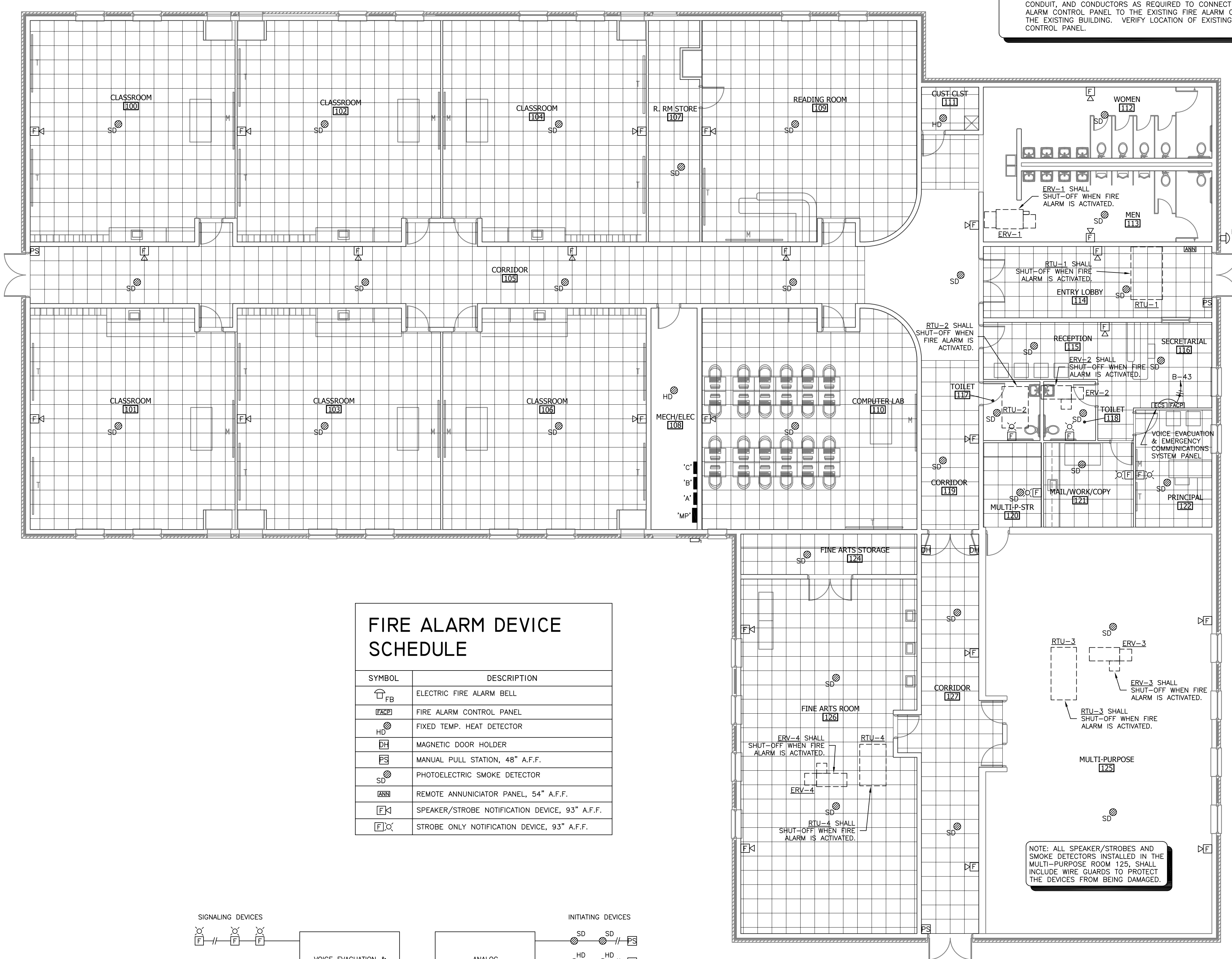


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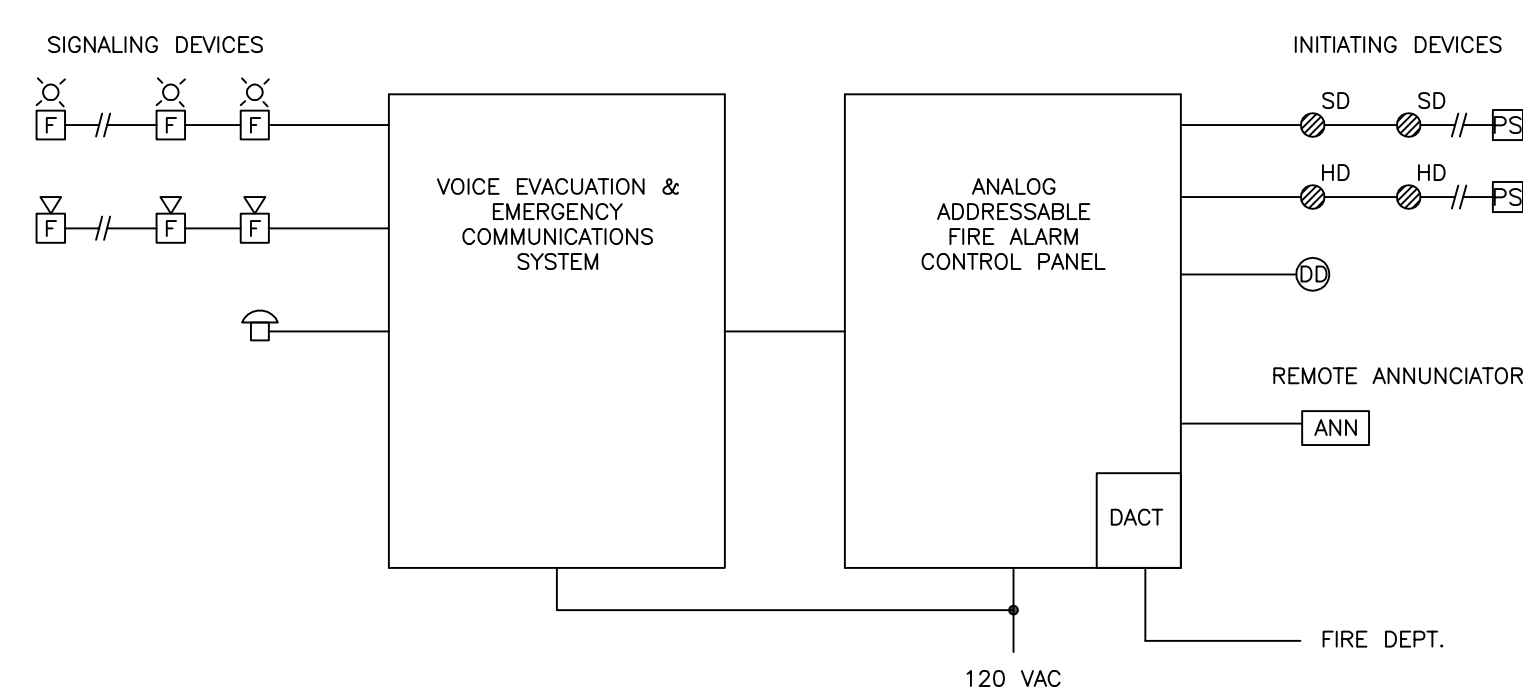
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- GENERAL FIRE ALARM NOTES:**
1. DEVICES SHALL BE INSTALLED IN LOCATIONS AS INDICATED ON PLANS. COORDINATE W/ OTHER TRADES BEFORE CONSTRUCTION TO AVOID CONFLICTS IN THE FIELD. IF CONFLICT ARISES, CONTACT THE ENGINEER FOR RESOLUTION.
 2. THE INSTALLATION OF ALL WORK SHALL BE IN ACCORDANCE WITH PROJECT DRAWINGS, AND THE LATEST CODES RELEVANT TO THE SYSTEM BEING INSTALLED.
 3. REFER TO ELEVATIONS FOR LOCATION OF ALL DEVICES.
 4. ALL DEVICE HEIGHTS LISTED ARE TO THE BOTTOM OF THE DEVICE UNLESS OTHERWISE NOTED.
 5. CONTRACTOR SHALL FURNISH AND INSTALL ALL EXPANSION MODULES, CONDUIT, AND CONDUCTORS AS REQUIRED TO CONNECT NEW MAIN FIRE ALARM CONTROL PANEL TO THE EXISTING FIRE ALARM CONTROL PANEL IN THE EXISTING BUILDING. VERIFY LOCATION OF EXISTING FIRE ALARM CONTROL PANEL.



FIRE ALARM DEVICE SCHEDULE

SYMBOL	DESCRIPTION
	ELECTRIC FIRE ALARM BELL
	FIRE ALARM CONTROL PANEL
	FIXED TEMP. HEAT DETECTOR
	MAGNETIC DOOR HOLDER
	MANUAL PULL STATION, 48" A.F.F.
	PHOTOELECTRIC SMOKE DETECTOR
	REMOTE ANNUNCIATOR PANEL, 54" A.F.F.
	SPEAKER/STROBE NOTIFICATION DEVICE, 93" A.F.F.
	STROBE ONLY NOTIFICATION DEVICE, 93" A.F.F.



FIRE ALARM RISER DIAGRAM
NOT TO SCALE

NORTH
1 FLOOR PLAN - FIRE ALARM
E3.1
SCALE: 1/8" = 1'-0"

NOTE: ALL SPEAKER/STROBES AND SMOKE DETECTORS INSTALLED IN THE MULTI-PURPOSE ROOM 125, SHALL INCLUDE WIRE GUARDS TO PROTECT THE DEVICES FROM BEING DAMAGED.

NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CLIENT SHALL BE RESPONSIBLE FOR RESOLVING ALL DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE CONTRACT DOCUMENTS. THIS DRAWING IS THE PROPERTY OF STRICKLAND ENGINEERING, L.C. AND SHALL BE INSTANTLY REVERTED TO THE ARCHITECT.

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DATE: 10/27/2016
SHEET TITLE: FIRE ALARM
JOB NO.: 14-089
SHEET

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