

LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING

NEW CONSTRUCTION

SAINT MARY'S COUNTY PUBLIC SCHOOLS

23995 POINT LOOKOUT RD, LEONARDTOWN, MD 20650

PSC #: 18.004



St. Mary's County Public Schools



ARCHITECT



9211 CORPORATE BLVD, SUITE 340
ROCKVILLE, MD 20850
301-770-9177(P) 301-330-3224(F)

CIVIL

COA BARRETT, LLC

100 JIBSAIL DRIVE SUITE 103
PRINCE FREDERICK, MD 20678

STRUCTURAL

COMPREHENSIVE STRUCTURAL SOLUTIONS, LLC
9229 WIGHTMAN RD, SUITE 120
MONTGOMERY VILLAGE, MD 20886

MECHANICAL/ELECTRICAL/PLUMBING

ALBAN ENGINEERING

303 INTERNATIONAL CIRCLE, SUITE 450
HUNT VALLEY, MD 21030

GENERAL NOTES AND CONDITIONS

- THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS AND REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT.
- THE INTENT OF THESE DRAWINGS IS FOR THE CONTRACTOR TO PROVIDE ALL LABOR, MATERIAL, FINISHES, EQUIPMENT, INSTALLATION AND SERVICES NECESSARY FOR AND INCIDENTAL WITH THE WORK, TO PROVIDE THE OWNER WITH A COMPLETE PROJECT INCLUSIVE OF ALL SYSTEMS. THE DRAWINGS (ACROSS ALL DISCIPLINES) ARE COMPLEMENTARY TO ONE ANOTHER AND TO THE SPECIFICATIONS AND MUST BE REVIEWED, PRICED, ESTIMATED, AND CONSTRUCTED IN THEIR ENTIRETY. ANYTHING SHOWN OR IMPLIED ON ANY ONE DRAWING MUST BE PROVIDED, INSTALLED AND CONNECTED AS THOUGH IT WERE SHOWN ON ALL DRAWINGS AND INCLUDED IN THE ORIGINAL PRICING. NO REQUEST FOR ADDITIONAL COST OR CHANGE ORDER WILL BE ACCEPTED BY THE OWNER FROM ANY CONTRACTOR, SUPPLIER, OR INSTALLER THAT RESULTS FROM A FAILURE TO THOROUGHLY REVIEW ALL DRAWINGS AND SPECIFICATIONS IN WRITING TO DETERMINE ALL EXISTING CONDITIONS.
- PRIOR TO BID AND CONTRACT AWARD, THE CONTRACTOR IS REQUIRED TO VISIT THE SITE, FAMILIARIZE THEMSELVES WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND ARE NECESSARY FOR CONSTRUCTION, AND CORRELATE THEIR OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. SHOULD ACTUAL CONDITIONS EITHER CONFLICT WITH THE PROPOSED WORK OR DIFFER MATERIALLY FROM THOSE ORDINARILY ENCOUNTERED AND GENERALLY RECOGNIZED AS INHERENT IN WORK OF THE CONTRACTOR PROVIDED BY THE CONTRACT, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER FOR CLARIFICATION. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR EXECUTING ANY AND ALL WORK SHOWN, NOTED OR SPECIFIED AND MAY WAIVE THE CONTRACTORS RIGHT TO ADDITIONAL TIME OR CONSIDERATION FOR SUCH CONDITIONS.
- IT IS ASSUMED THAT THE CONTRACTOR HAS OBTAINED, BEFORE AWARD OF THE CONTRACT, CLARIFICATION OF ALL QUESTIONS AS TO THE INTENT OF CONTRACT DOCUMENTS, OR OF ASSUMED OR ACTUAL CONFLICT BETWEEN TWO OR MORE ITEMS IN THE CONTRACT DOCUMENTS OR WITH THE EXISTING CONDITIONS. SHOULD THE CONTRACTOR FAIL TO OBTAIN SUCH CLARIFICATION, WORK SHALL BE REQUIRED TO CONFORM TO THE METHOD SHOWN, NOTED, OR SPECIFIED BY THE CONTRACT DOCUMENTS WHICH WILL PRODUCE THE BEST RESULTS, AS JUDGED BY THE OWNER. IN SUCH CASES OF CONFLICT, THE MORE EXPENSIVE OR HIGHER QUALITY OPTION IS ASSUMED TO APPLY, UNLESS DIRECTED OTHERWISE IN WRITING BY THE OWNER. SUCH DIRECTION SHALL NOT ENTITLE THE CONTRACTOR TO ANY CLAIM FOR ADDITIONAL COST.
- PRIOR TO INITIATING ANY PORTION OF THE WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATE ALL PORTIONS OF THE CONTRACT DOCUMENTS RELATING TO THAT PORTION OF THE WORK AND AFFECTING ADJOINING PORTIONS. IF DISCREPANCIES EXIST, THEY SHALL BE REPORTED TO THE OWNER FOR CLARIFICATION AND/OR RESOLUTION PRIOR TO ORDERING MATERIALS AND COMMENCING SUCH WORK.
- BY SUBMITTING A BID PROPOSAL, THE CONTRACTOR CERTIFIES THAT HE OR SHE HAS VISITED THE SITE AND UNDERSTANDS THE COMPLETE SCOPE OF WORK, WHICH IS INCLUDED IN THE PROPOSAL.
- DEFINITIONS: "PROVIDE" MEANS "FURNISH AND INSTALL"; "VERIFY" MEANS "VERIFY IN THE FIELD AND COORDINATE DIMENSIONS AND DISCREPANCIES".
- THESE NOTES AND OTHER NOTES ON THE DRAWINGS ARE DIRECTIONS FOR THE CONTRACTORS' PERFORMANCE, UNLESS NOTED OTHERWISE (I.N.O.). FOR EXAMPLE, THE VERB "INSTALL" MEANS "CONTRACTOR SHALL INSTALL"; "RELOCATE" MEANS "CONTRACTOR SHALL RELOCATE", ETC.
- IF CONFLICT EXISTS ON THE DRAWINGS, THEN THE MORE STRINGENT REQUIREMENT SHALL APPLY. FINAL INTERPRETATION SHALL BE MADE BY THE OWNER.
- DURING THE WORK, ANY CONDITION UNCOVERED THAT CAUSES CONFLICT WITH THE INTENDED DESIGN MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER.
- CONTRACTOR SHALL STAGE WORK IN SUCH A WAY AS TO ENSURE SAFE EMERGENCY EGRESS AT ALL TIMES.
- EXCEPT FOR PREFINISHED SURFACES, ALL ITEMS DISTURBED OR DAMAGED BY WORK SHALL BE REFINISHED TO MATCH THE SURROUNDING AREA OR FINISHED AS INDICATED.
- THE ARCHITECT SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES. CONTRACTOR IS TO TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THEIR FORCES AND OTHERS FROM EXPOSURE TO HAZARDOUS MATERIALS. REFER ALSO TO RELEVANT SPECIFICATION SECTION(S).
- UNLESS OTHERWISE INDICATED ALL PIPING, CONDUIT, DUCTWORK AND SIMILAR SERVICES SHALL BE CONCEALED.
- AT NEW WALL CONSTRUCTION, ELECTRICAL AND LOW-VOLTAGE CONDUIT AND SIMILAR ITEMS ARE TO BE CONCEALED INSIDE MASONRY CORES.
- GENERAL NOTES, THOSE FOUND ON THIS SHEET, APPLY TO ALL DRAWINGS RELATED TO THIS PROJECT.
- KEY NOTES SPECIFICALLY REFER TO ITEMS NOTED WITH NUMBER OR LETTER DESIGNATIONS ON THE RESPECTIVE DRAWING WHERE THE DESIGNATIONS ARE SHOWN.
- CONTRACTOR SHALL STAGE WORK IN SUCH A WAY AS TO ENSURE SAFE EMERGENCY EGRESS AT ALL TIMES.
- REFER TO CONTRACT DOCUMENTS FOR COMPLETE SCOPE OF WORK.
- CONTRACTOR SHALL, ON COMPLETION OF THE WORK, CLEAN THE SPACE INCLUDING BUT NOT LIMITED TO GLASS, DOORS, FRAMES, FLOORS, BASE, HVAC, DIFFUSERS, GRILLES, LIGHT FIXTURE LENSES, AND CARPETS.
- UNLESS NOTED OTHERWISE, CONTRACTOR SHALL PROVIDE BULLNOSE CMU UNITS AT ALL OUTSIDE CORNERS OF MASONRY INTERIOR TO BUILDING. DO NOT PROVIDE BULLNOSE UNITS WHERE CMU WILL BE COVERED BY FRP.
- WORKING NORTH IS TO BE SET AS THE TOP CONSTRUCTION SHEET AND MAY NOT BE TRUE NORTH.

COVER SHEET

CS	COVER SHEET
CIVIL	
C-1	SITE PLAN
C-2	UTILITY PROFILES
ARCHITECTURAL	
A-1	CODE ANALYSIS
A-2	PROPOSED FLOOR PLAN AND SCHEDULES
A-3	BUILDING ELEVATIONS AND SECTIONS
A-4	WALL SECTIONS AND DETAILS
A-5	FINISH SCHEDULE AND FINISH PLAN
STRUCTURAL	
S-1	FOUNDATION AND ROOF FRAMING PLANS
S-2	TYPICAL DETAILS
S-3	TYPICAL DETAILS
MECHANICAL	
M-1	MECHANICAL LEGEND & ABBREVIATION
M-2	MECHANICAL FLOOR & ROOF PLANS
M-3	MISCELLANEOUS DETAILS
M-4	MISCELLANEOUS CONTROL DIAGRAM
M-5	MECHANICAL EQUIPMENT SCHEDULE
PLUMBING	
P-1	PLUMBING LEGEND AND GENERAL NOTES
P-2	PLUMBING FLOOR PLANS
P-3	PLUMBING RISER DIAGRAMS
P-4	PIPING, SUPPORT AND EQUIPMENT DETAILS
P-5	PLUMBING FIXTURE PIPING DETAILS
P-6	PLUMBING SCHEDULES AND EQUIPMENT NOTES
ELECTRICAL	
E-1	ELECTRICAL LEGEND, DETAILS, & LIGHT FIXTURE SCHEDULE
E-2	FLOOR PLANS - ELECTRICAL



VICINITY MAP: N.T.S.

CERTIFICATION

THESE PLANS FOR THE NEW CONCESSIONS BUILDING AT LEONARDTOWN HIGH SCHOOL WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE OF ST. MARY'S COUNTY AND THE STATE OF MARYLAND FIRE PREVENTION CODE.

ARCHITECT, MARYLAND REGISTRATION NO. 16066

DATE

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland, License No.: 16066, Expiration Date: 1/6/2026.

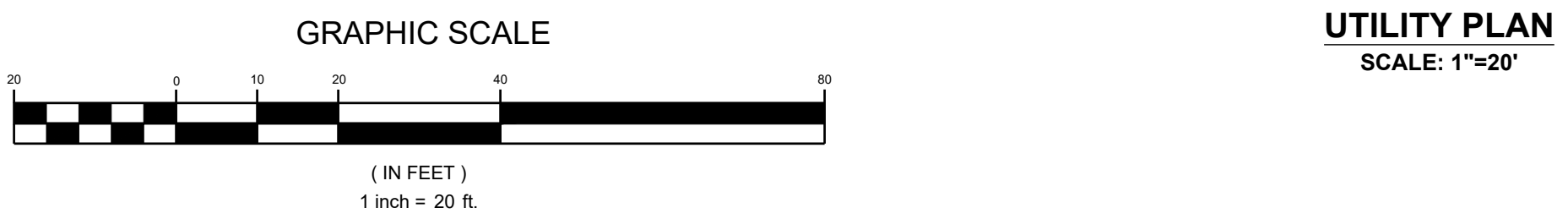
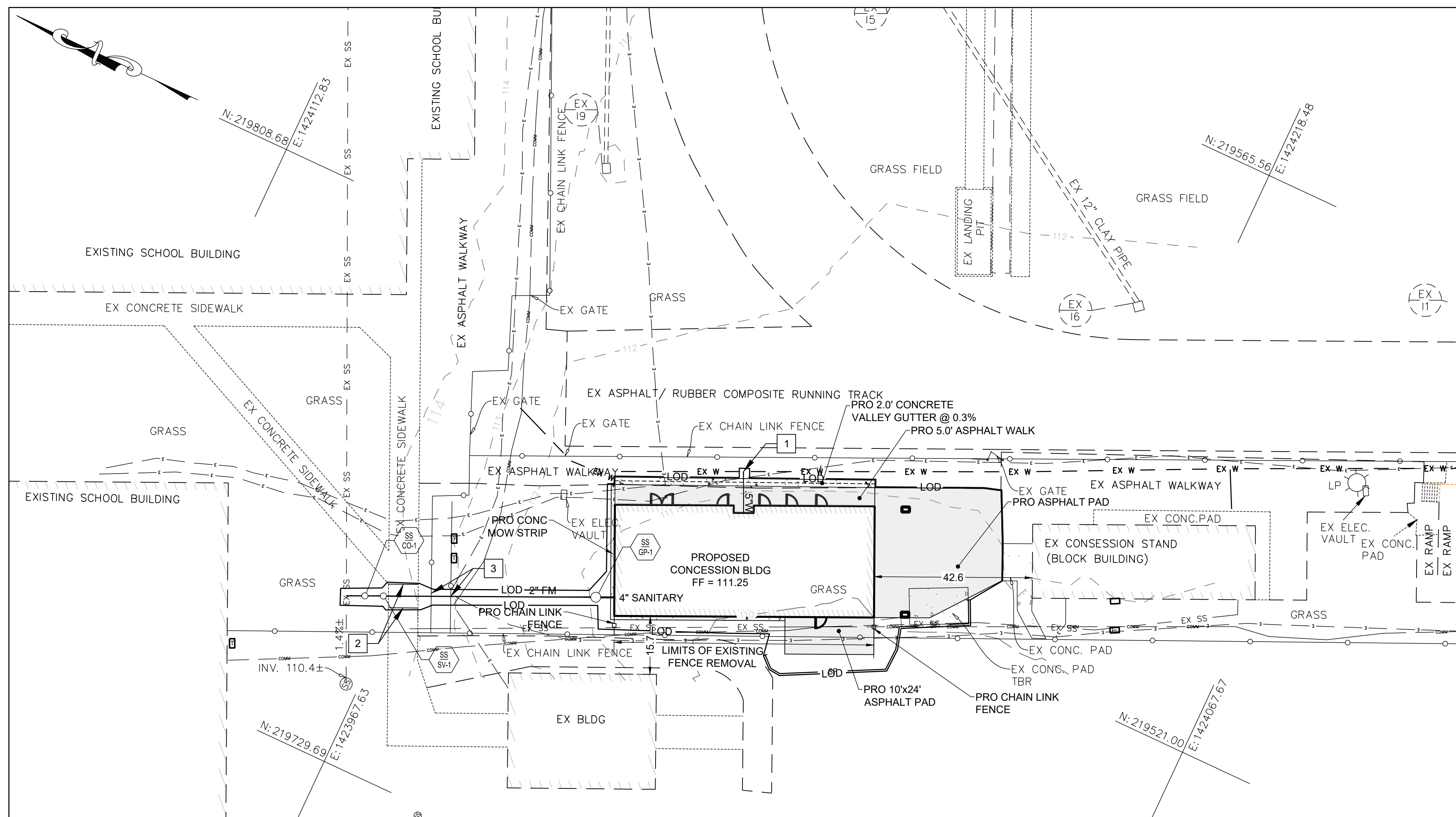
PROFESSIONAL SEAL:

PRINTS ISSUED

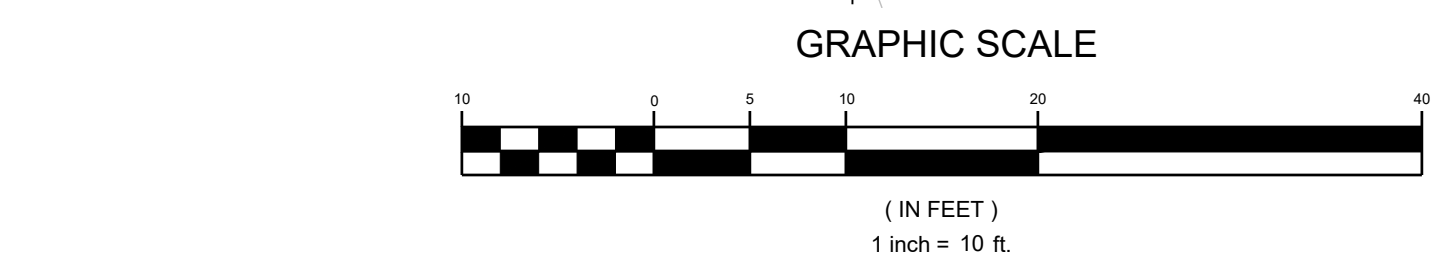
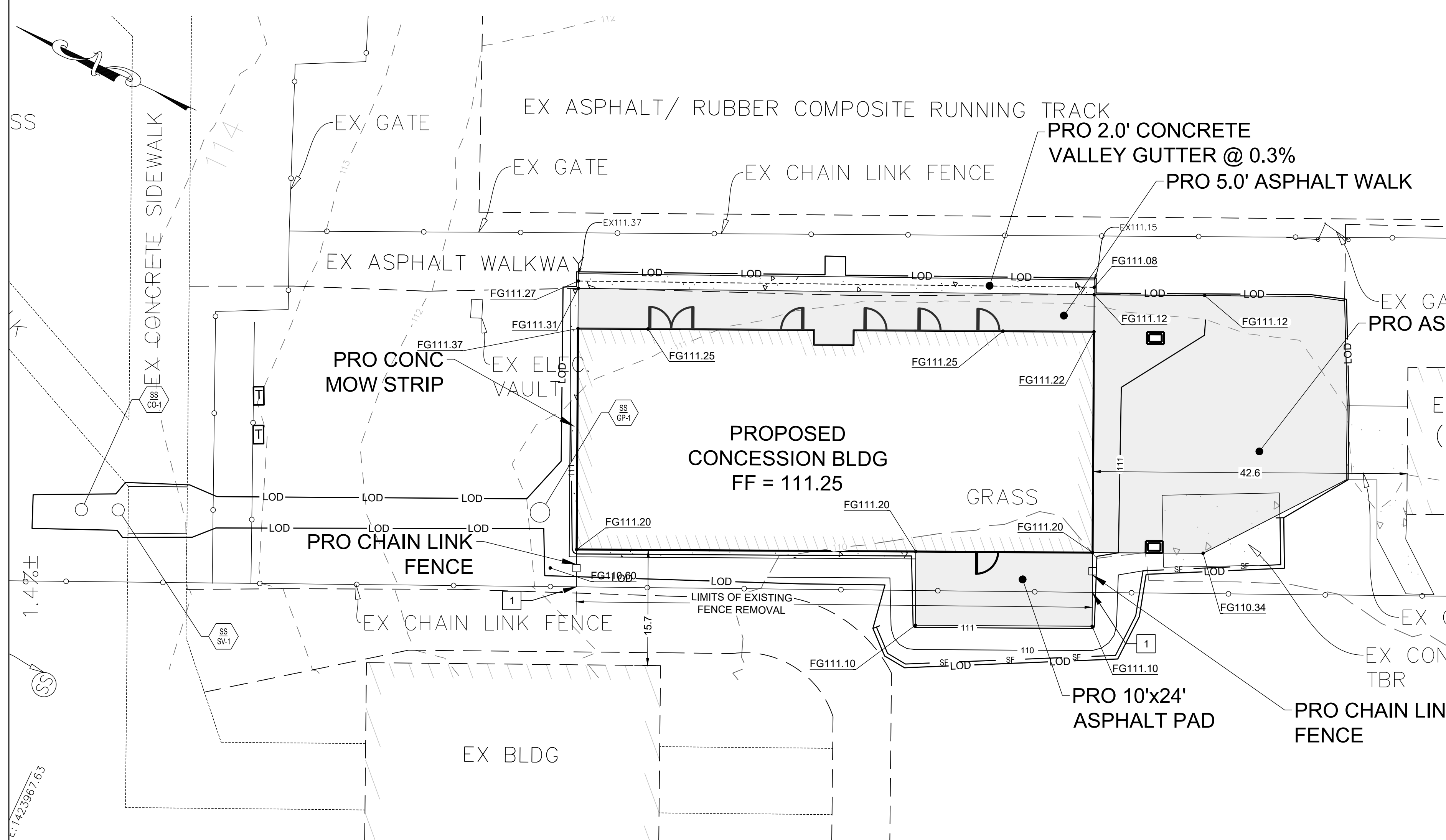
NO.	DESCRIPTION	DATE:
1	CD COORDINATION SET	12/06/2023
2	CD 90% SET	12/19/2023
3	BID DOCUMENTS	4/8/2024

ARCHITECTURAL ABBREVIATIONS

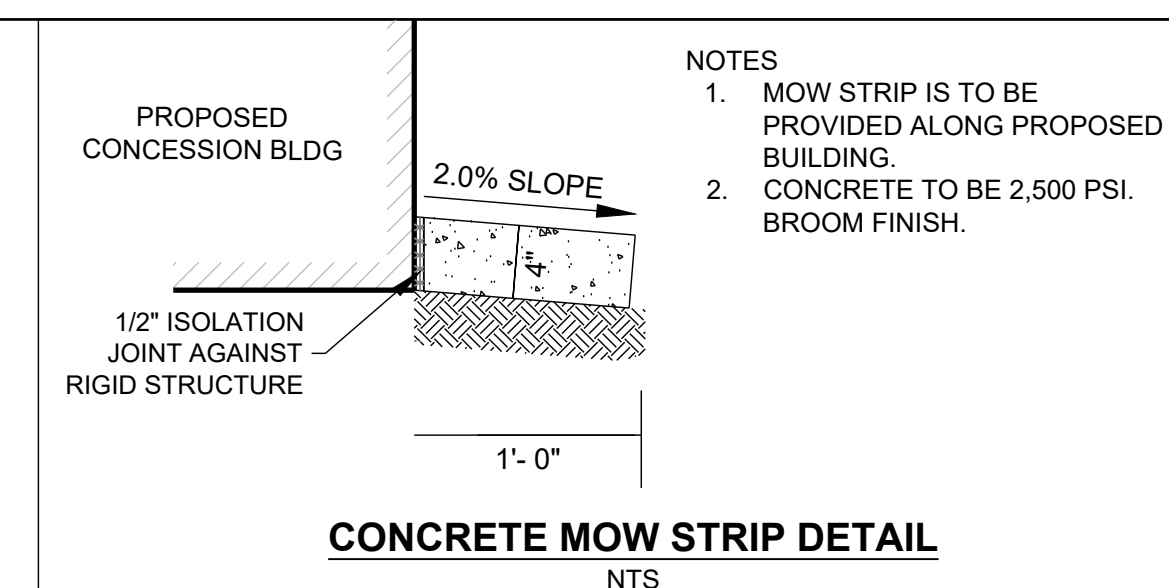
ABV	ABOVE	CTR	CENTER	DN	DOWN	GALV	GALVANIZED IRON	JCT	JUNCTION	NEG (-)	NEGATIVE	RAD (R)	RADIUS	SWM	STORM WATER MANAGEMENT	VIF	VERIFY IN FIELD
ACST	ACOUSTIC	CL	CENTERLINE	DS	DOWNSPROUT	GALV (G)	GALVANIZED IRON	JS	JUNCTION BOX	NEG	NOT IN CONTRACT	ROPI (RECP)	RECEPTACLE	SWM	STORAGE	VP	VENT PIPE
ACTL (ACT)	ACTUAL	C TO C	CENTER TO CENTER	DOZ	DOZEN	GAS	GASOLINE	KLD	KILN-DRIED	NRC	NOISE REDUCTION COEFFICIENT	RECT	RECTANGLE, RECTANGULAR	STRCT	STRUCTURE	VS	VENT STACK
ADH	ADHERIVE	CT	CERAMIC TILE	EA	EACH	GIRLS	GIRL'S TOILET	KD	KNOCK DOWN	NOM	NON-STANDARD	REF	REFER, REFERENCE	SFRG	STRUCTURAL GLAZED FACING TILE	VENT	VENTILATE, VENTILATOR
ADJ	ADJACENT	CV	CHECK VALVE	E	EAST	G	GIRDER	LAB	LABORATORY	NRD	NON-REDUCED	REFR	REFRIGERATE, REFRIGERATOR	SGFT	STRUCTURE	VERT	VERTICAL
AGOR	AGGREGATE	CHW	CHILLED WATER	EL	ELECTRICAL	GL	GLASS	LGE	LARGE	N	NORTH	RGTE (REG)	REGISTER	SURF	SURFACE	VCT	VINYL COMPOSITION TILE
AIR COND (AC)	AIR CONDITIONED	CR	CIRCUIT	ELV	ELEVATOR	GLZ	GLAZED FACED MASONRY UNIT	LAT	LATITUDE	NRS	NOT TO SCALE	RGR	REGULAR	TSUR	TERRAZZO	V	VOLTAGE
ALM	ALIGNMENT	CBT	CIRCUIT BREAKER	ENGR	ENGINEER	GWT	GRAZED WALL TILE	LAV	LAVATORY	NO. #	NUMBER	REFR	REFRIGERATE	SUSP	SUSPENDED	VOL	VOLUME
ALT.N (ALT)	ALTERNATE	CIRC	CIRCULAR	ENGRG	ENGINEERING	GR	GRADE	LF	LEFT	OFF (O)	OFFICE	RK	REMOVE AND REPLACE	WALL	WALL	WB	WALLBOARD
ALUM	ALUMINUM	ENTR (ENT)	ENTRANCE	EQ	EQUAL	GRV	GRAVEL	LH	LEFT HAND	OPNG	OPENING	R & R	REMOVE AND REPLACE	WATER	WATER	WBR	WALL COVERING WATER CLOSET
ALU	ALUMINUM	CLNOUT	CLEANOUT	EQP	EQUIPMENT	GT	GREASE TRAP	LSC	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
AMP	AMERICAN WIRE GAGE	EQP (EQU)	EQUIPMENT	EQP	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
AMP	AMPERAGE (CURRENT)	CLO (CL)	CLOSET	GYP	GYPSONIUM	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
APVD (APPD)	APPROVED	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
APPROX	APPROXIMATE	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
ARCH	ARCHITECTURE, ARCHITECTURAL	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
ASPH	ASPHALT	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
ASSN	ASSOCIATION	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
AUTO	AUTOMATIC	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
ADP	AUTOMATIC DATA PROCESSING	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
AVE	AVENUE	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
AVG	AVERAGE	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BSMT	BASEMENT	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BR	BATHROOM	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BM	BEAM	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BRG	BREASTING	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BRD	BEDROOM	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BLW	BELOW	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BETW (BET)	BETWEEN	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BLO	BLOWER	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BLR	BOLTER	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BOT	BOTTOM	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BOYS	BOYS' TOILET	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BOY	BOYS' TOILET	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BRK	BREAK	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BTU	BRITISH THERMAL UNIT	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BLDG	BUILDING LINE	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
BLTN (BI)	BULTIN	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
CAB	CABINET	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
CAP	CAPTURE	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
CPT	CARPET	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
CI	CAST IRON	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
CIP	CAST IRON PIPE	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
CLG	CALLING	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
CLG	CEILING	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
CEM	CEMENT	CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
		CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
		CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
		CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
		CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
		CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
		CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
		CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
		CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
		CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
		CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
		CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
		CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
		CRS	CORRUGATED	EQR	EQUIPMENT	LSC	LIFE SAFETY CODE	LT	LIGHT	OPNG	OPENING	REFL	REFLECT	WATER	WATER	WCR	WATER COOLER
		CRS	CORRUGATED	EQR													



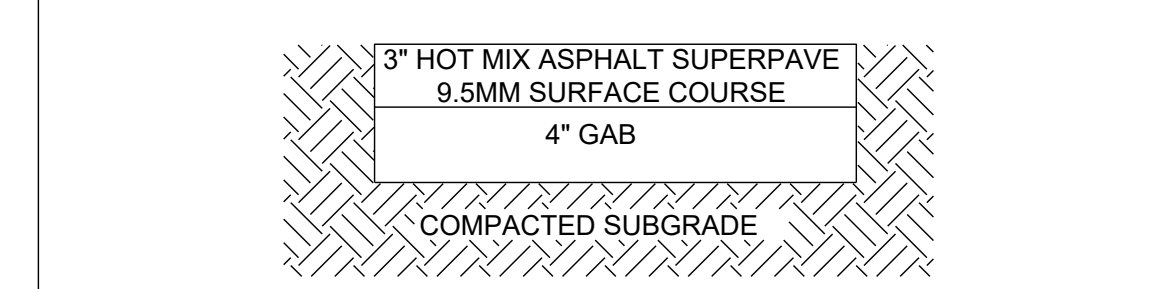
UTILITY PLAN
SCALE: 1"=20'



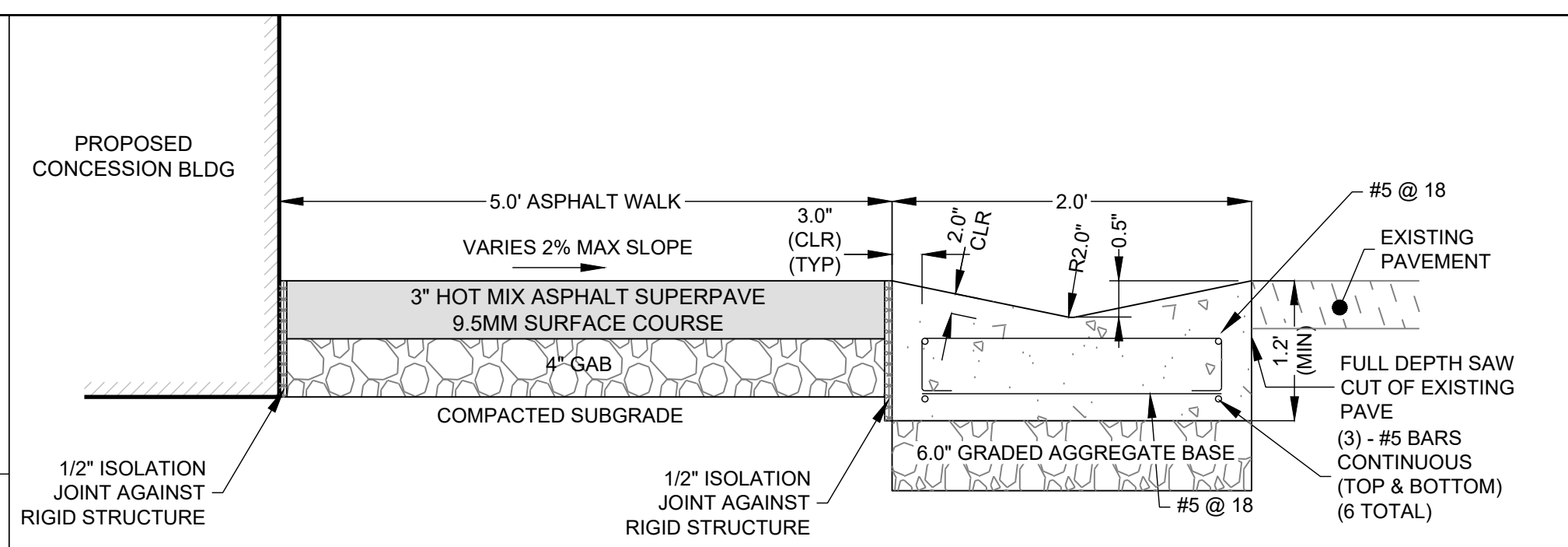
GRADING PLAN
SCALE: 1"=10'



CONCRETE MOW STRIP DETAIL
NTS



ASPHALT PAD DETAIL
NTS



CONCRETE VALLEY GUTTER
NTS

- UTILITY PLAN NOTES**
- TEST PITS ARE REQUIRED TO DETERMINE THE EXACT LOCATION AND ELEVATION OF ANY EXISTING WATERLINE, SEWER LINE, TELECOMMUNICATIONS, ELECTRIC, AND STORM DRAIN, ETC. AT ALL UTILITY CROSSINGS AND CONNECTION LOCATIONS.
 - EXISTING WATER AND SEWER CONNECTIONS SHALL BE CONSTRUCTED AND/OR UTILIZED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
 - EXISTING UTILITY FEATURES INCLUDING BUT NOT LIMITED TO STORM DRAIN, WATER, SEWER, ELECTRIC, AND TELECOMMUNICATIONS SHALL BE ADJUSTED TO THE PROPOSED GRADES ON THIS PLAN.
 - ALL TRENCHES OR HOLES FOR UTILITY INSTALLATION SHALL BE BACKFILLED, COMPACTED AND STABILIZED AT THE END OF EACH WORKING DAY. EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH OR HOLE. NO TRENCH/HOLE SHALL BE OPENED MORE THAN CAN BE STABILIZED THE SAME DAY. IF AN AREA MUST BE LEFT UNSTABILIZED OVERNIGHT, SILT FENCE WILL BE PLACED IMMEDIATELY DOWNHILL OF ALL DISTURBED AREAS AND STOCKPILES AND APPROPRIATE SAFETY MEASURES SHALL BE INSTALLED AS REQUIRED.

- UTILITY PLAN KEYED NOTES**
- | | |
|---|--|
| 1 | TIE TO EXISTING WATER LINE WITH SADDLE AND CORPORATION STOP ASSEMBLY PER METCOM STD W-9. TEST PIT WATERLINE TO VERIFY LOCATION, SIZE AND MATERIAL PRIOR TO CONSTRUCTION. |
| 2 | REPLACE EXISTING CONCRETE SIDEWALK DISTURBED BY SEWER INSTALLATION IN-KIND TO NEAREST CONSTRUCTION JOINT. |
| 3 | REMOVE AND RESET EXISTING FENCE AS NEEDED FOR SEWER INSTALLATION. |

- NOTICE TO CONTRACTOR - CAUTION**
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES AT THE CONTRACTOR'S EXPENSE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
- GENERAL NOTES**
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEET ALL OF THE REQUIREMENTS OF THE STATE AND LOCAL DEPARTMENTS OF TRANSPORTATION, HEALTH, ENVIRONMENT, AND UTILITIES COMPANIES, IN ADDITION TO THE INFORMATION STATED ON THESE PLANS.
 - ALL MATERIAL SPECIFICATIONS, METHODS OF CONSTRUCTION AND METHODS OF MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION MATERIALS, MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION SPECIFICATIONS AS CURRENTLY AMENDED. ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ST. MARY'S COUNTY METROPOLITAN COMMISSIONS DESIGN MANUAL, TECHNICAL SPECIFICATIONS AND STANDARDS FOR CONSTRUCTION DETAILS.
 - IN CASE OF CONFLICT BETWEEN ANY PART OF THESE PLANS AND SPECIFICATIONS, OR IF ANY ERRORS OR OMISSIONS ARE DISCOVERED IN THE LINES, GRADES AND DIMENSIONS, THE CONTRACTOR SHALL NOTIFY THE SITE CONSULTANT IMMEDIATELY AND SHALL REQUEST A WRITTEN DETERMINATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED. IF THE WORK PROCEEDS WITH THE KNOWLEDGE OF THE ERROR OR OMISSION AND WITHOUT A WRITTEN DETERMINATION, SUCH WORK WILL NOT BE CONSIDERED IN COMPLIANCE WITH THESE PLANS AND SPECIFICATIONS.
 - PRIOR TO CONSTRUCTION, CONTACT THE ENFORCEMENT DIVISION, DEPARTMENT OF THE ENVIRONMENT, SEDIMENT AND STORMWATER MANAGEMENT ADMINISTRATION 1800 WASHINGTON BLVD, BALTIMORE, MARYLAND 21230 PHONE: (410) 537-3510
 - NOTIFY MISS UTILITY AT (800) 257-7777, 3 DAYS PRIOR TO THE START OF ANY WORK ON THIS SITE.
 - AS CONSTRUCTION PROCEEDS, ADDITIONAL MEASURES MAY BE EMPLOYED WITH THE ENGINEER'S APPROVAL, IF CONDITIONS WARRANT, TO ENSURE EFFECTIVE STORMWATER DRAINAGE AND SEDIMENT CONTROL.
 - SEDIMENT CONTROL MEASURES AND PROPOSED TREE LINE REPRESENTS LIMIT OF WORK UNLESS OTHERWISE STATED.
 - EXISTING ELEVATIONS SHOWN HEREON ARE FROM ST. MARY'S COUNTY AERIAL TOPOGRAPHY AND SUPPLEMENTED BY A FIELD RUN SURVEY BY COA BARRETT, LLC. HORIZONTAL DATUM IS BASED ON NAD 83/91, VERTICAL DATUM NAVD83.
 - ALL ELEVATIONS SHOWN HEREON ARE IN REFERENCE TO BENCH MARKS AND MUST BE FIELD VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.
 - IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
 - THE PROJECT LIMIT OF DISTURBANCE IS LESS THAN 5,000 SQUARE FEET THEREFORE THE PROJECT IS EXEMPT FROM STORMWATER MANAGEMENT PER SECTION 3.2.A OF THE MARYLAND STORMWATER MANAGEMENT AND EROSION & SEDIMENT CONTROL GUIDELINES FOR STATE AND FEDERAL PROJECTS.
 - GRADING ACTIVITIES DISTURB LESS THAN 5,000 SQUARE FEET AND LESS THAN 100 CUBIC YARDS OF EARTH THEREFORE THE PROJECT IS EXEMPT FROM EROSION & SEDIMENT CONTROL REVIEW AND APPROVAL PER SECTION 3.2.B OF THE MARYLAND STORMWATER MANAGEMENT AND EROSION & SEDIMENT CONTROL GUIDELINES FOR STATE AND FEDERAL PROJECTS. THE PROJECT IS NOT EXEMPT FROM CONTROLLING EROSION AND SEDIMENT DURING CONSTRUCTION AND MUST IMPLEMENT EAS PRACTICES IN ACCORDANCE WITH THESE PLANS.
 - THE DEVELOPMENT SHOWN HEREON IS LOCATED OUTSIDE OF THE CHESAPEAKE BAY CRITICAL AREA AS DELINEATED ON THE ST. MARY'S COUNTY ZONING MAP AND OUTSIDE OF THE FLOODPLAIN AS DELINEATED ON THE FIRM INSURANCE RATE MAP 24032015E REVISED 10/16/2004 FOR ST. MARY'S COUNTY MARYLAND AND DISTRIBUTED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).
 - THERE ARE NO HIGHLY ERODIBLE SOIL TYPES PRESENT WITHIN THE LIMIT OF DISTURBANCE PER THE SOIL SURVEY OF ST. MARY'S COUNTY AS DISTRIBUTED BY THE U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE.

- SITE PLAN NOTES**
- ALL EXISTING FEATURES ARE TO REMAIN UNLESS OTHERWISE NOTED. ACCESS TO ALL EXISTING STRUCTURES/FIELDS/TRACKS/ETC. SHALL BE MAINTAINED CONTINUOUSLY THROUGHOUT THE LIFE OF CONSTRUCTION.
 - ALL DISTURBED AREAS WHICH ARE TO BE LANDSCAPED GREEN AREAS SHALL BE STABILIZED WITH 4" TOPSOIL AND SOD.
 - EXISTING PAVED SURFACES WHICH ARE PROPOSED TO BE LANDSCAPED GREEN AREAS SHALL HAVE PAVEMENT, GRAVEL & SUB GRADE MATERIAL REMOVED AND REPLACED WITH TOPSOIL TO THE EXTENT REQUIRED TO PROVIDE SUITABLE SOILS FOR THE ESTABLISHMENT OF LANDSCAPE MATERIALS.
 - AREAS OF SIDEWALK AND/OR PAVEMENT TO BE REMOVED TO CONSTRUCT SITE IMPROVEMENTS AND/OR INSTALL UTILITIES SHALL BE SAWCUT TO FACILITATE REMOVAL AND INSTALLATION. CONCRETE SHALL BE SAWCUT AT NEAREST CONSTRUCTION JOINT.
 - ALL SIDEWALKS/ASPHALT PADS SHALL MEET CURRENT ADA STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE GRADE AND DRAINAGE OVER ALL PAVED SURFACES. NO PONDING OR PUDDLING IS ALLOWABLE FOLLOWING PAVEMENT PLACEMENT.

- SITE PLAN KEYED NOTES**
- | | |
|---|--|
| 1 | PROPOSED FENCE (MATCH EXISTING) TO TIE TO EXISTING FENCE WITH CORNER POST ADDED AT TIE-IN POINT. |
|---|--|

SEDIMENT & EROSION CONTROL

DISCRPTION	SYMBOL	UNITS	QUANTITY
LIMIT OF DISTURBANCE (LOD)	---	SF ±	4,982
SILT FENCE	---	LF ±	73
EARTHWORK CUT	---	CY ±	0
EARTHWORK FILL	---	CY ±	98

NOTE: QUANTITIES ARE FOR OBTAINING PERMITS ONLY. QUANTITIES TO BE VERIFIED BY CONTRACTOR.

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SEI SMOLEN + FMR
KILKOVITCH
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COMPREHENSIVE STRUCTURAL
SOLUTIONS, LLC

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**MECHANICAL/
ELECTRICAL/PLUMBING**
ALBAN ENGINEERING

303 INTERNATIONAL CIRCLE, SUITE 450
HUNT VALLEY, MD 21030

DLLR CERTIFICATION

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland License No. 31181; Expiration Date: 01/13/25

PROFESSIONAL SEAL:

PRINTS ISSUED

NO.	DESCRIPTION	DATE
1	CD COORDINATION SET	12/06/2023
2	CD 90% SET	12/19/2023
3	IBID DOCUMENTS	04/09/2024

**SMCPS
LEONARDTOWN HS
CONCESSION
BUILDING**

SEI ARCHITECTS

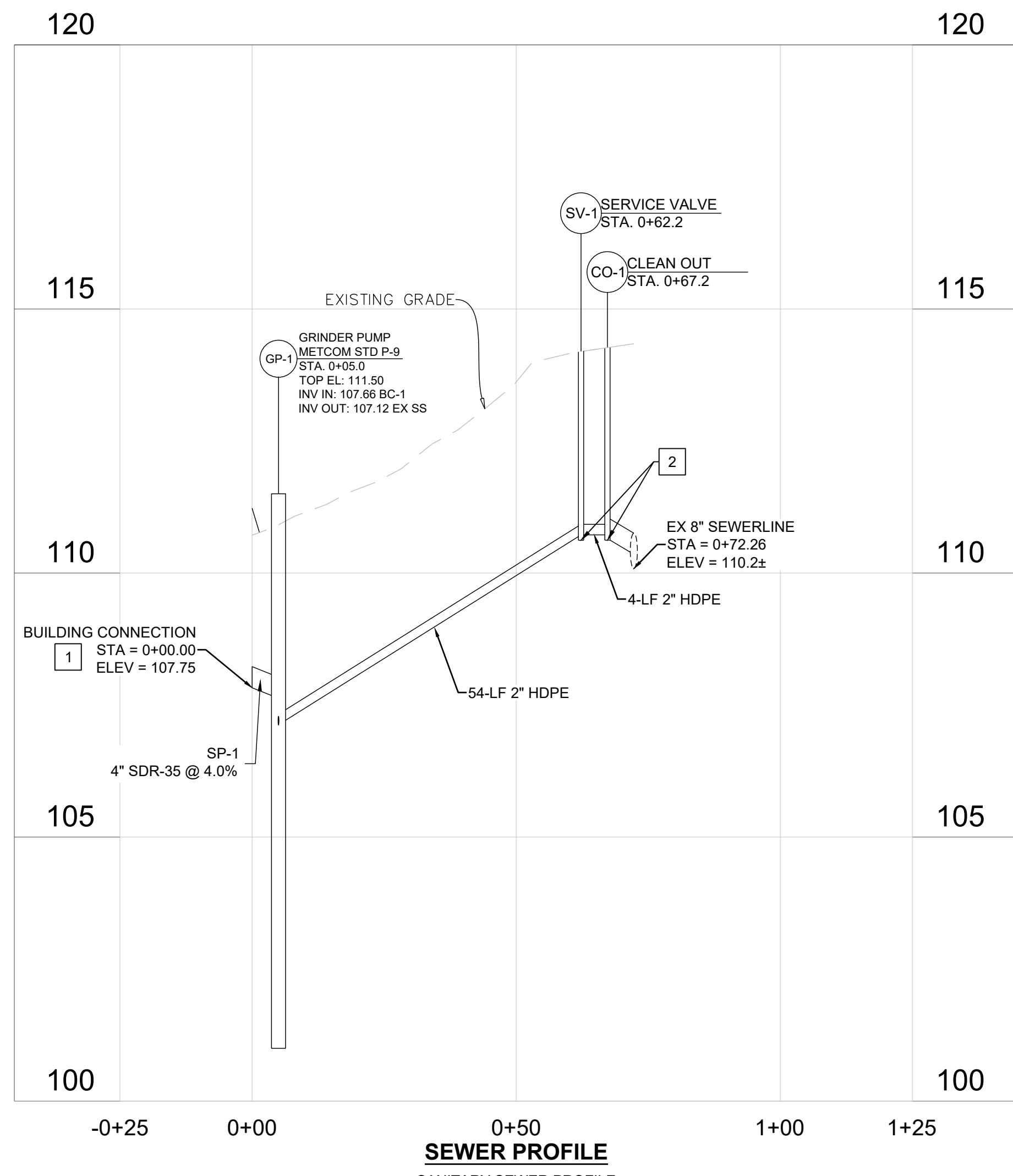
SHEET TITLE:
SITE PLAN

PROJECT NO:
SEI 13022.0
COAB: SM09027

DATE:
04/08/2024

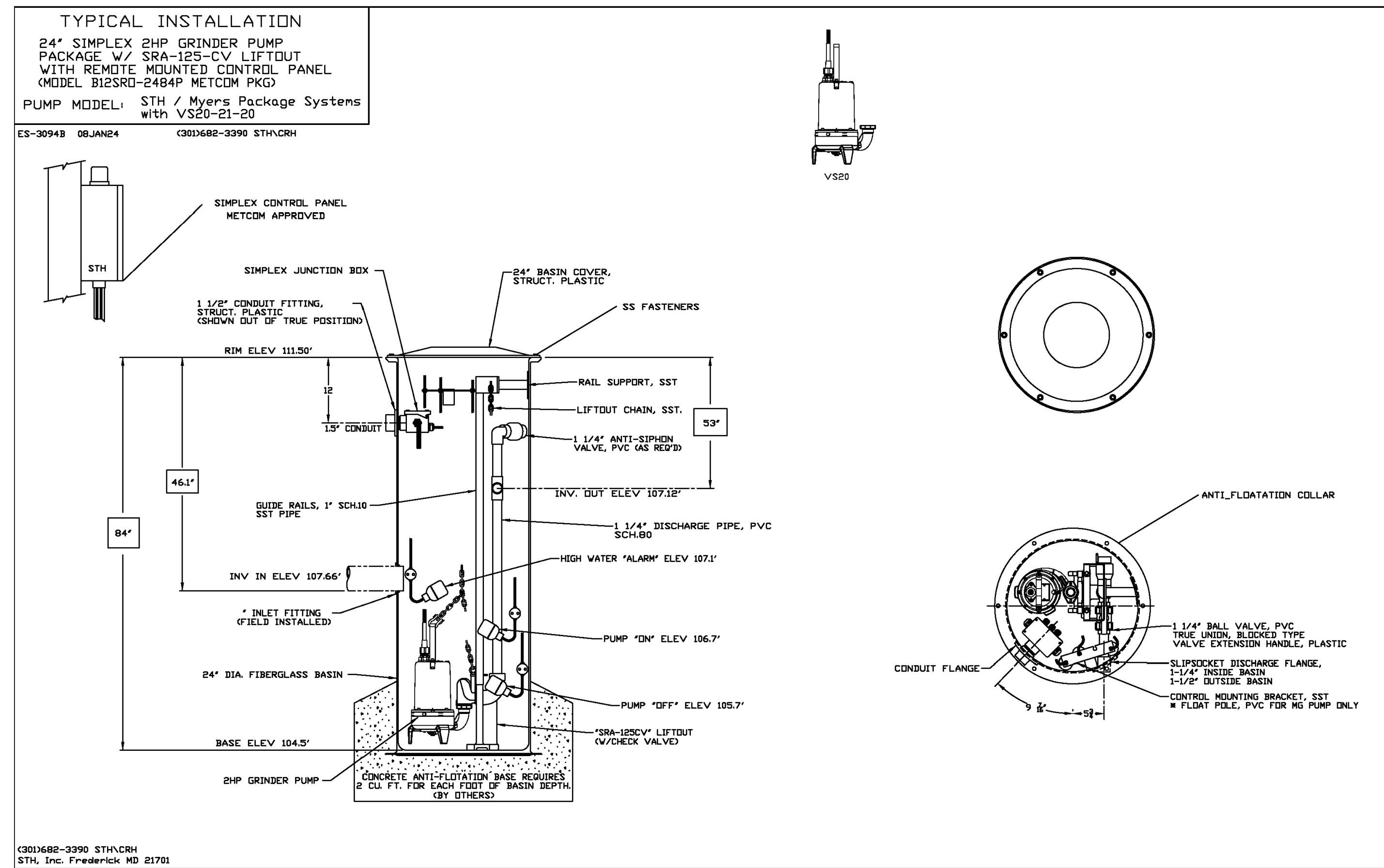
SCALE:
AS SHOWN

DRAWN BY: MAE
CHECKED BY: JJK
SHEET NO:



KEYED NOTES

- SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND COORDINATE CONNECTION LOCATIONS AND ELEVATIONS. FURNISH AND INSTALL ADAPTERS AND/OR FITTINGS AS REQUIRED TO TIE-IN TO MEP SYSTEMS. CLEANOUT TO BE PROVIDED 5 FEET +/- FROM BUILDING. REFER TO MEP PLANS FOR TYPICAL EXTERIOR CLEANOUT DETAIL.
- REFER TO METCOM DETAIL P-10.

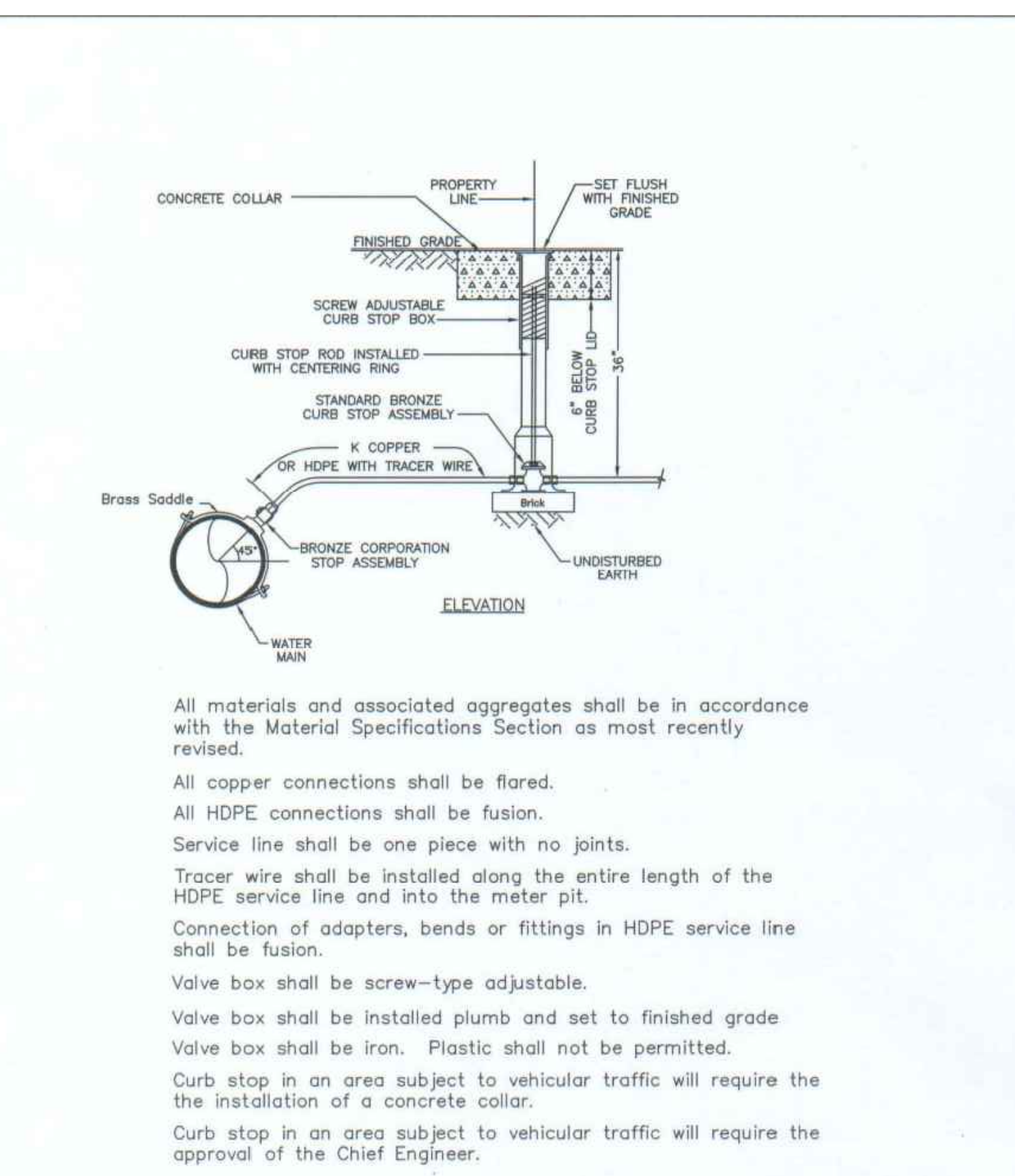
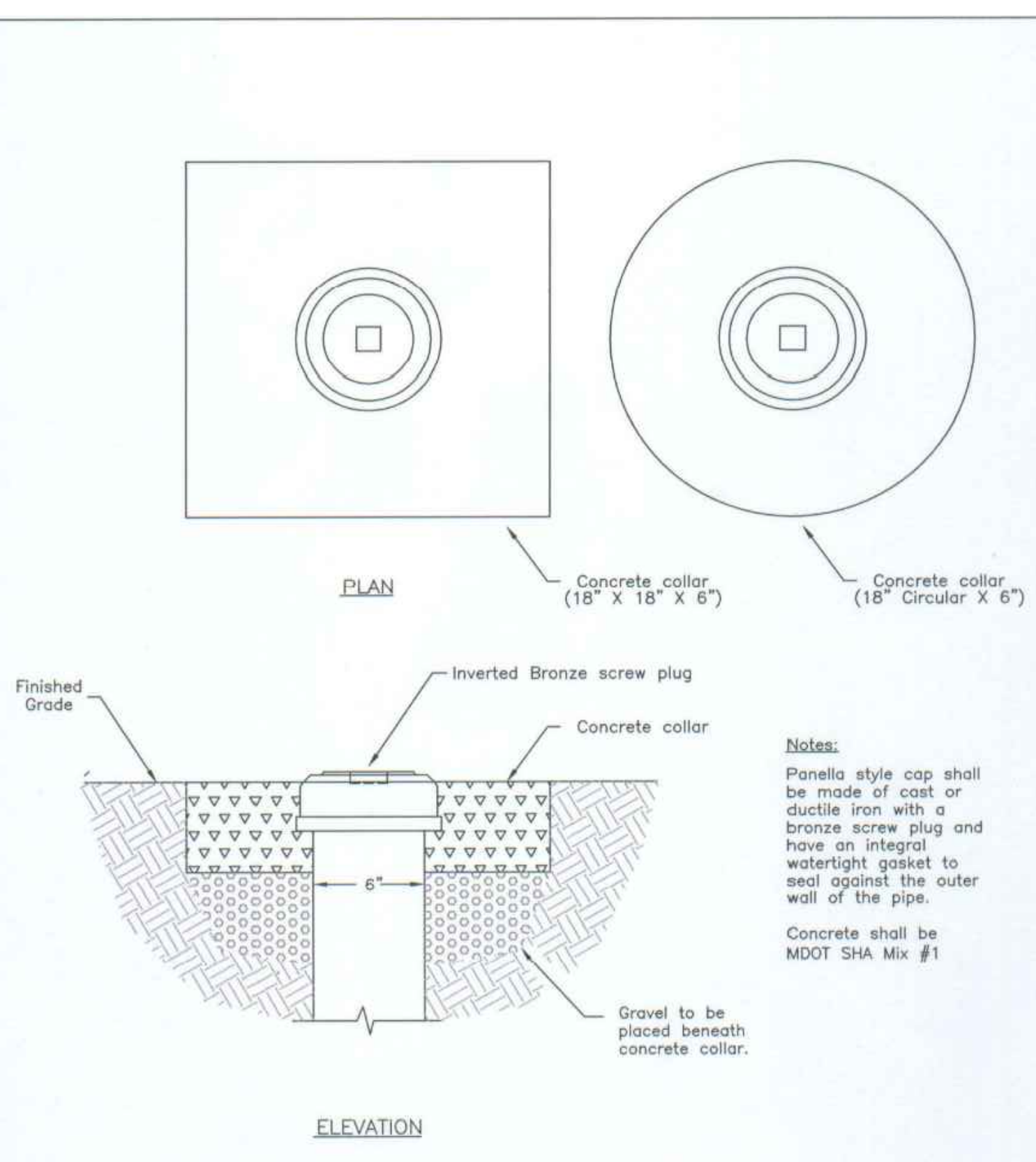
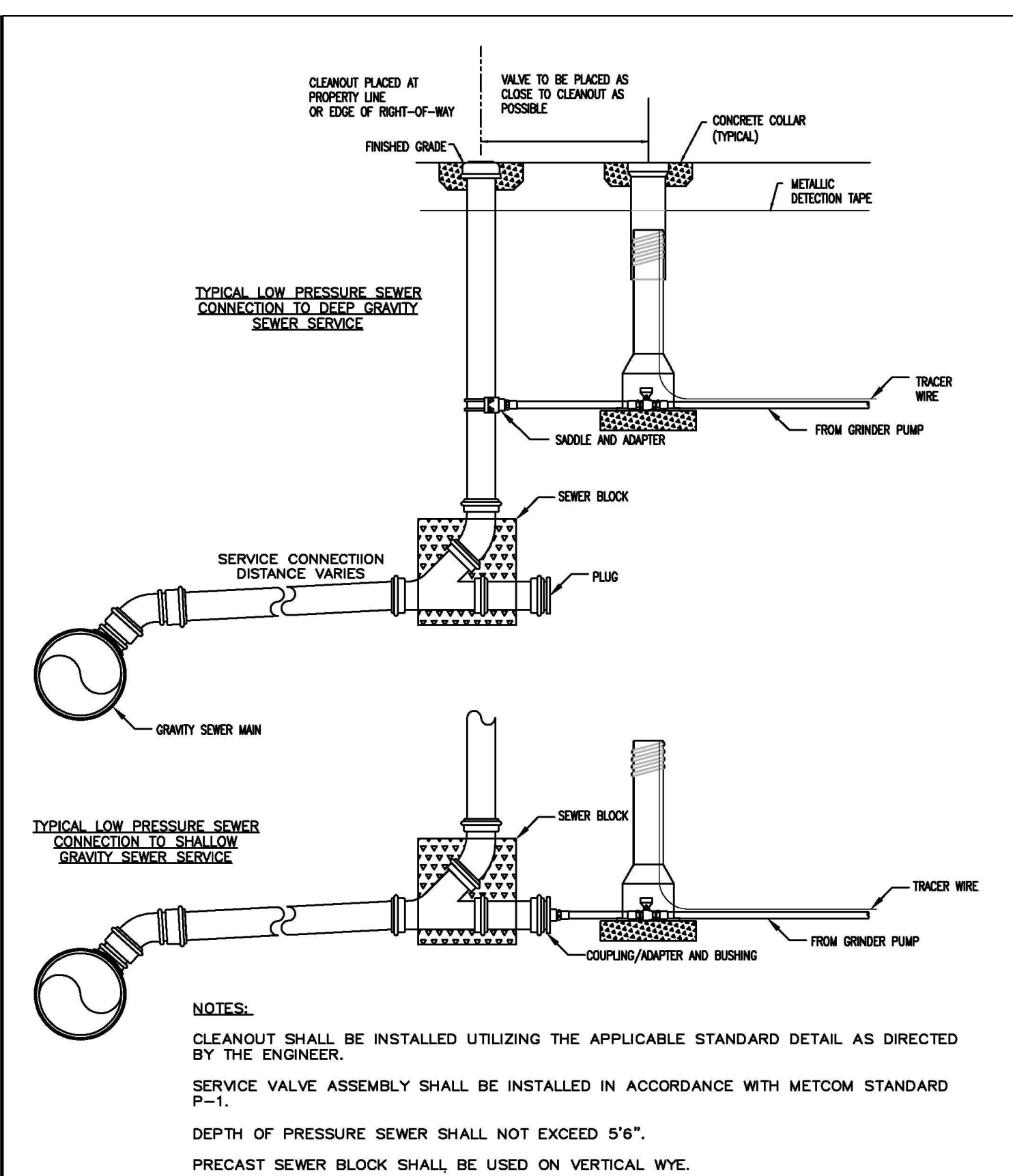
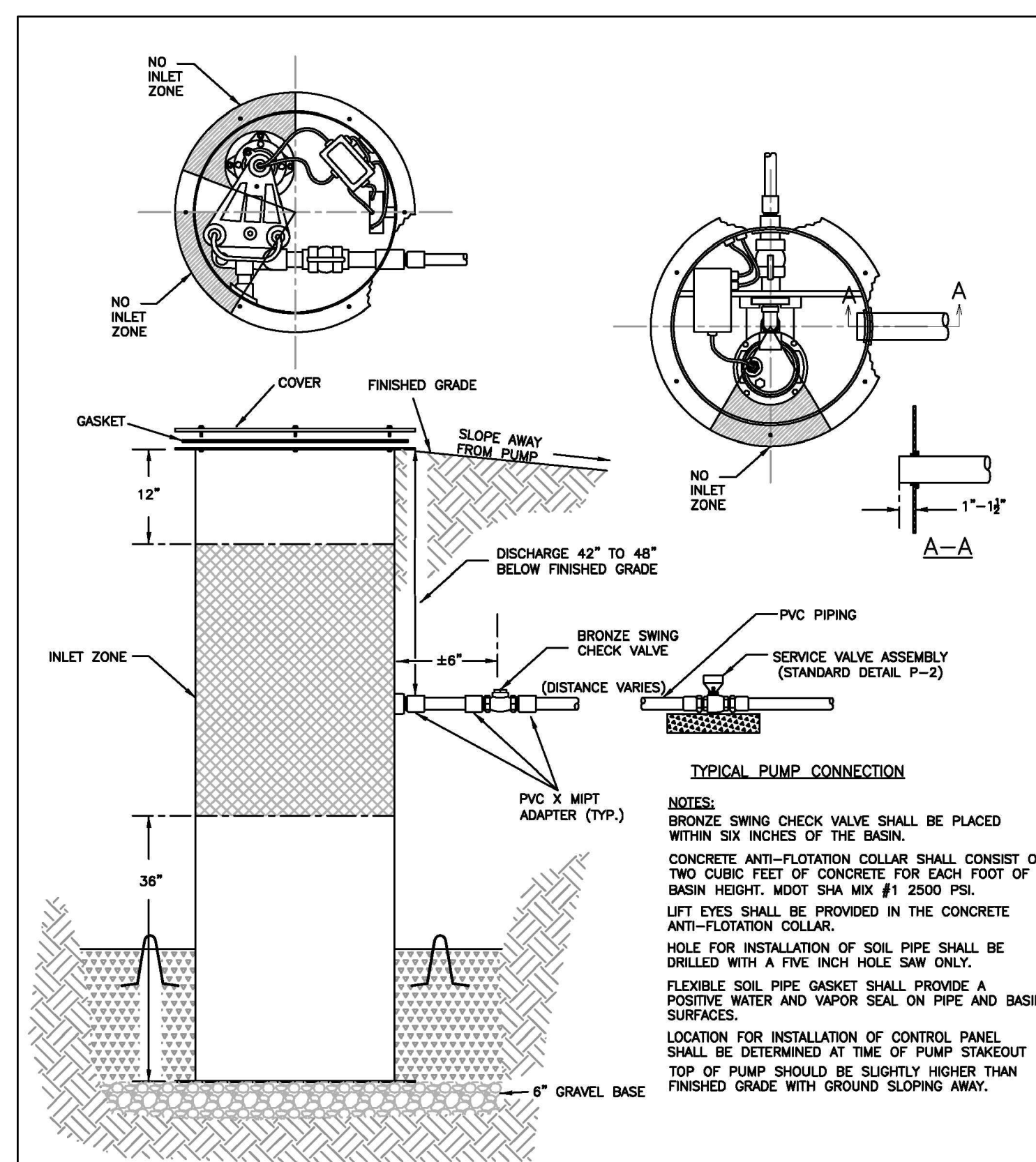
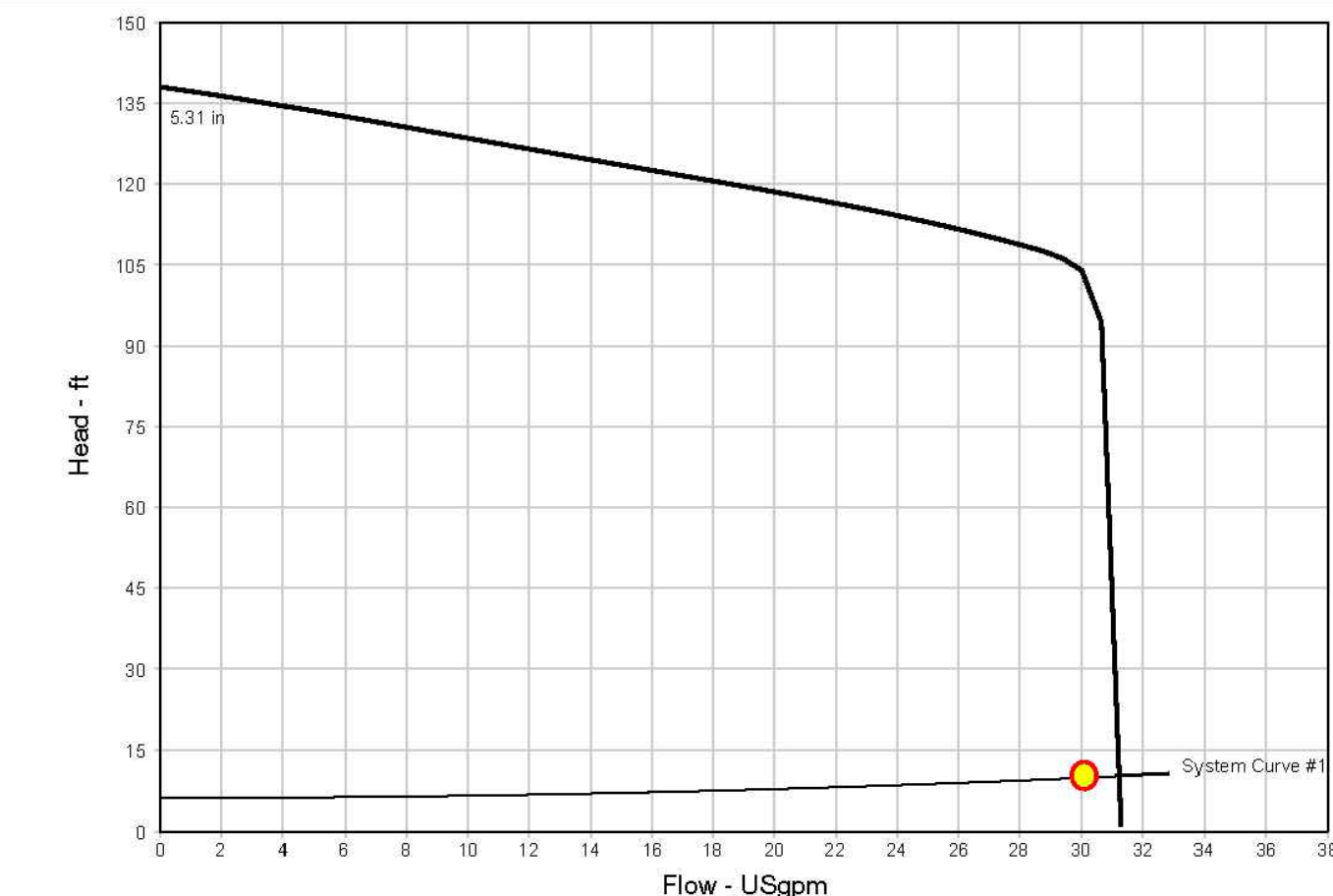


PENTAIR Customer: COA Barrett
Project name: SMCPs Leonardtown HS Concessions Bldg

Pump Performance Datasheet
STH, INC. Frederick MD

Item Number / Tags	Simplex	Size	Myers - VS20 - METCOM
Service	230V 1phase	Stages	1
Quantity	1	Based on curve number	SUB_G_O_AH_00010_A_2 Rev
Quote number		Date last saved	2017-05-30
			08 Jan 2024 7:10 AM

Operating Conditions	Liquid	Wastewater
Flow, rated	30.0 USgpm	Additional liquid description
Differential head / pressure, rated (requested)	10.0 ft	Solids diameter, max
Differential head / pressure, rated (actual)	10.3 ft	Solids diameter limit
Suction pressure, rated / max	0.00 / 0.00 psig	Solids concentration, by volume
NPSH available, rated	Ample	Temperature, max
Site Supply Frequency	60 Hz	Fluid density, rated / max
Performance		Viscosity, rated
Speed criteria	Synchronous	Vapor pressure, rated
Speed, rated	3500 rpm	Material selected
Impeller diameter, rated	5.31 in	Pressure Data
Impeller diameter, maximum	5.31 in	Maximum working pressure
Impeller diameter, minimum	5.31 in	Maximum allowable working pressure
Efficiency	-	Maximum allowable suction pressure
NPSH required / margin required	- / 0.00 ft	Maximum hydrostatic test pressure
nq (imp. eye flow) / S (mp. eye flow)	5.31 ft	Driver & Power Data (@Max density)
Minimum Continuous Stable Flow	-	Driver sizing specification
Head, maximum, rated diameter	138.0 ft	Margin over specification
Head rise to shutoff	31.08 %	Service factor
Flow ratio, rated / BEP	-	Power, hydraulic
Diameter ratio (rated / max)	100.00 %	Power, rated
Head ratio (rated dia / max dia)	100.00 %	Power, maximum, rated diameter
Cq/Cn/Ce/Cs (ANSI/HI 9.8.7-2010)	1.00 / 1.00 / 1.00 / 1.00	Motor rating
Selection status	Acceptable	



APPROVED

REVISIONS

DATE	INITIALS	DESCRIPTION
7/25/10	JEG	
7/24/14	JEG	
2/5/19	JEG	

ST. MARY'S COUNTY METROPOLITAN COMMISSION STANDARDS FOR PUBLIC WATER, SEWER AND INCIDENTAL STRUCTURES

LOW PRESSURE SEWER DETAIL GRINDER PUMP TYPICAL INSTALLATION

STANDARD NO. P-9

APPROVED

REVISIONS

DATE	INITIALS	DESCRIPTION
6/18/09	JEG	
1/8/19	JEG	

ST. MARY'S COUNTY METROPOLITAN COMMISSION STANDARDS FOR PUBLIC WATER, SEWER AND INCIDENTAL STRUCTURES

LOW PRESSURE SEWER CONNECTION TO NEW OR EXISTING GRAVITY SEWER SERVICE

STANDARD NO. P-10

APPROVED

REVISIONS

DATE	INITIALS	DESCRIPTION
6/18/09	JEG	

ST. MARY'S COUNTY METROPOLITAN COMMISSION STANDARDS FOR PUBLIC WATER, SEWER AND INCIDENTAL STRUCTURES

CLEANOUT CAP

STANDARD NO. S-17

APPROVED

REVISIONS

DATE	INITIALS	DESCRIPTION
6/18/09	JEG	
5/2/11	JEG	
5/11/11	JEG	

ST. MARY'S COUNTY METROPOLITAN COMMISSION STANDARDS FOR PUBLIC WATER, SEWER AND INCIDENTAL STRUCTURES

WATER SERVICE CONNECTION 1 1/2", 1 1/2", 2" SETTING

STANDARD NO. W-9

ARCHITECT
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ALBAN ENGINEERING
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DLR CERTIFICATION
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland License No. 31181; Expiration Date: 01/13/25

PROFESSIONAL SEAL:

STH, INC. Frederick MD 21701
Phone: (301)892-3390
murocpe@sthn.com

MYERS
CR Homes

PENTAIR

PRINTS ISSUED

NO.	DESCRIPTION	DATE
1	CD COORDINATION SET	12/08/2023
2	CD 90% SET	12/19/2023
3	IBD DOCUMENTS	04/08/2024

SMCPs LEONARDTOWN HS CONCESSION BUILDING

SEI ARCHITECTS

UTILITY PROFILES

PROJECT NO: SEI: 13022.0
COAB: SM09027

DATE: 04/08/2024

SCALE: AS SHOWN

DRAWN BY: MAE

CHECKED BY: JJK

SHEET NO:

WORKING NORTH

2 OF 2

1 ADMINISTRATION

LEONARDTOWN HIGH SCHOOL
13865 POINT LOOKOUT ROAD,
LEONARDTOWN, MD 20650

SCOPE OF WORK

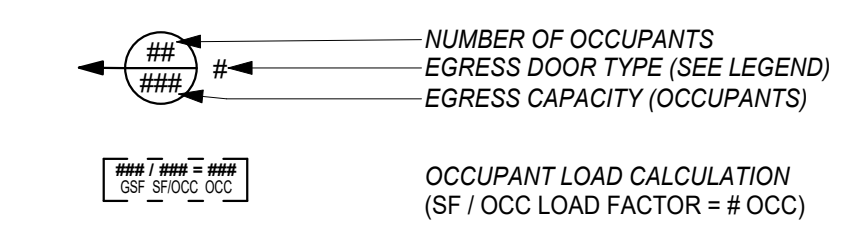
NEW CONSTRUCTION

CODE REFERENCES

- INTERNATIONAL BUILDING CODE 2021
- INTERNATIONAL ENERGY CONSERVATION CODE 2021
- INTERNATIONAL MECHANICAL CODE 2021
- NATIONAL ELECTRIC CODE 2020
- INTERNATIONAL PLUMBING CODE 2021
- ADA STANDARDS FOR ACCESSIBLE DESIGN 2010
- NFPA 1 2021
- NFPA 101 2021

2 DEFINITIONS

LEGEND:



3 USE AND OCCUPANCY CLASSIFICATION

IBC: SECTION 309 MERCANTILE GROUP M

303.1.2 SMALL ASSEMBLY SPACES. THE FOLLOWING ROOMS AND SPACES SHALL NOT BE CLASSIFIED AS ASSEMBLY OCCUPANCIES.
 1. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.
 2. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS LESS THAN 750 SQUARE FEET IN AREA AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

309.1 MERCANTILE GROUP M

MERCANTILE GROUP M OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE OR A PORTION THEREOF FOR THE DISPLAY AND SALE OF MERCHANDISE...

NFPA: 6.1.10 MERCANTILE

6.1.10.1 DEFINITION - MERCANTILE OCCUPANCY. AN OCCUPANCY USED FOR THE DISPLAY AND SALE OF MERCHANDISE.
 6.1.2.1 ASSEMBLY OCCUPANCIES

RESTAURANTS AND DRINKING ESTABLISHMENTS WITH AN OCCUPANT LOAD OF FEWER THAN 50 PERSONS SHOULD BE CLASSIFIED AS MERCANTILE OCCUPANCIES.
 OCCUPANCY OF ANY ROOM OR SPACE FOR ASSEMBLY PURPOSES BY FEWER THAN 50 PERSONS IN ANOTHER OCCUPANCY, AND INCIDENTAL TO SUCH OTHER OCCUPANCY, SHOULD BE CLASSIFIED AS PART OF THE OTHER OCCUPANCY AND SHOULD BE SUBJECT TO THE PROVISIONS APPLICABLE THERETO.

5 GENERAL BUILDING HEIGHT AND AREAS

TABLE 504.3 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE

OCCUPANCY CLASSIFICATION	SPRINKLERED	TYPE OF CONSTRUCTION	ALLOWABLE HEIGHT	ACTUAL HEIGHT
M	NO	VB	40' - 0"	+/- 18' - 0"

TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE

OCCUPANCY CLASSIFICATION	SPRINKLERED	TYPE OF CONSTRUCTION	ALLOWABLE STORIES	ACTUAL STORIES
M	NO	VB	1	1

TABLE 506.2 ALLOWABLE AREA FACTOR

OCCUPANCY CLASSIFICATION	SPRINKLERED	TYPE OF CONSTRUCTION	ALLOWABLE AREA	ACTUAL AREA
M	NO	VB	9,000 SF	+/- 1,850 SF

6 SECTION 602 CONSTRUCTION CLASSIFICATION

602.5 TYPE V. TYPE V CONSTRUCTION IS THAT TYPE OF CONSTRUCTION IN WHICH THE STRUCTURAL ELEMENTS, EXTERIOR WALLS, AND INTERIOR WALLS ARE OF ANY MATERIALS PERMITTED BY CODE.

TABLE 601 FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

BUILDING ELEMENTS	TYPE V	
	REQUIRED	PROVIDED
PRIMARY STRUCTURAL FRAME	0 HOUR	0 HOUR
BEARING WALLS:	EXTERIOR	0 HOUR*
	INTERIOR	0 HOUR*
NON-BEARING WALLS	EXTERIOR	SEE TABLE 705.5
	INTERIOR	0 HOUR
FLOOR CONSTRUCTION INCLUDING SUPPORTS	0 HOUR	0 HOUR
ROOF CONSTRUCTION INCLUDING SUPPORTS	0 HOUR	0 HOUR

* NOT LESS THAN THE FIRE RESISTANCE RATING BASED ON FIRE SEPARATION DISTANCE (SEE TABLE 705.5)

7 TABLE 705.5 FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

DISTANCE	CONSTRUCTION TYPE	OCC. GROUP M
< 5 FT	VB	2
5 FT TO < 10 FT		1
10 FT TO < 30 FT		0
> 30 FT		0

NOTE: NEW BUILDING WILL BE LOCATED > 10 FT FROM ALL EXISTING BUILDINGS

8 INTERIOR FINISHES

TABLE 803.13 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

GROUP	NONSPRINKLERED	
	ROOMS AND ENCLOSED SPACES	
M	C	

10 MEANS OF EGRESS

SECTION 1004 OCCUPANT LOAD

TABLE 1004.1 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	FLOOR AREA IN SF PER OCCUPANT (IBC 1004.5)	FLOOR AREA IN SF PER OCCUPANT (NFPA TABLE 7.3.1.2)
ACCESSORY STORAGE AREAS, MECHANICAL EQ. ROOM	300 GSF	300 GSF
KITCHENS	200 GSF	100 GSF
LOCKER ROOMS / BENCH-TYPE SEATING	50 GSF	1 PER 18" BENCH

SECTION 1005 EGRESS WIDTH

1005.3 REQUIRED CAPACITY BASED ON OCCUPANT LOAD. THE REQUIRED CAPACITY, IN INCHES, OF THE MEANS OF EGRESS FOR ANY ROOM, AREA, SPACE OR STORY SHALL BE NOT LESS THAN THAT DETERMINED IN ACCORDANCE WITH SECTIONS 1005.3.1 AND 1005.3.2.
 IBC SECTIONS 1005.3.2: 2" PER PERSON (EGRESS COMPONENTS OTHER THAN STAIRWAYS)
 NFPA TABLE 7.3.1.1: 2" PER PERSON (LEVEL COMPONENTS)
 REFER TO DOOR SYMBOLS ON CODE ANALYSIS PLAN ON PLAN FOR OCCUPANT LOAD AND CAPACITY AT EACH EXTERIOR DOOR

SECTION 1017 EXIT ACCESS TRAVEL DISTANCE

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE

OCCUPANCY	WITHOUT SPRINKLER SYSTEM
A, E, F-1, M, R, S-1	200 FT

NFPA 36.2.6.1 - IN MERCANTILE OCCUPANCIES CLASSIFIED AS ORDINARY HAZARD, TRAVEL DISTANCE SHALL NOT EXCEED 150 FT.

13 ENERGY EFFICIENCY

1301.1.1 CRITERIA BUILDINGS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE.

IECC TABLE C402.1.3 - OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD

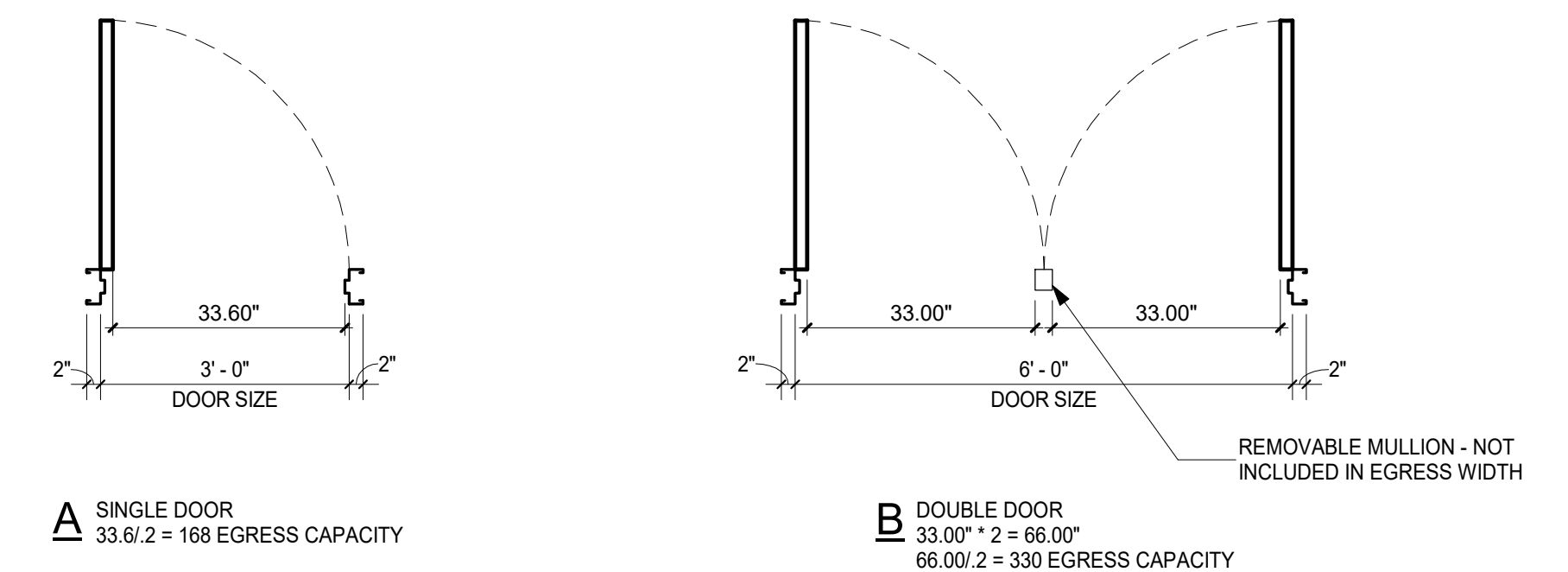
	CLIMATE ZONE: 4	
	REQUIRED	PROPOSED
ROOFS (ATTIC AND OTHER)	R-49	R-49
WALLS, ABOVE GRADE (MASS)	R-9.5 ci	R-9.5 ci (MIN)
SLAB-ON-GRADE FLOORS (UNHEATED SLABS)	R-10 FOR 24"	R-10 FOR 24"

ci = CONTINUOUS INSULATION

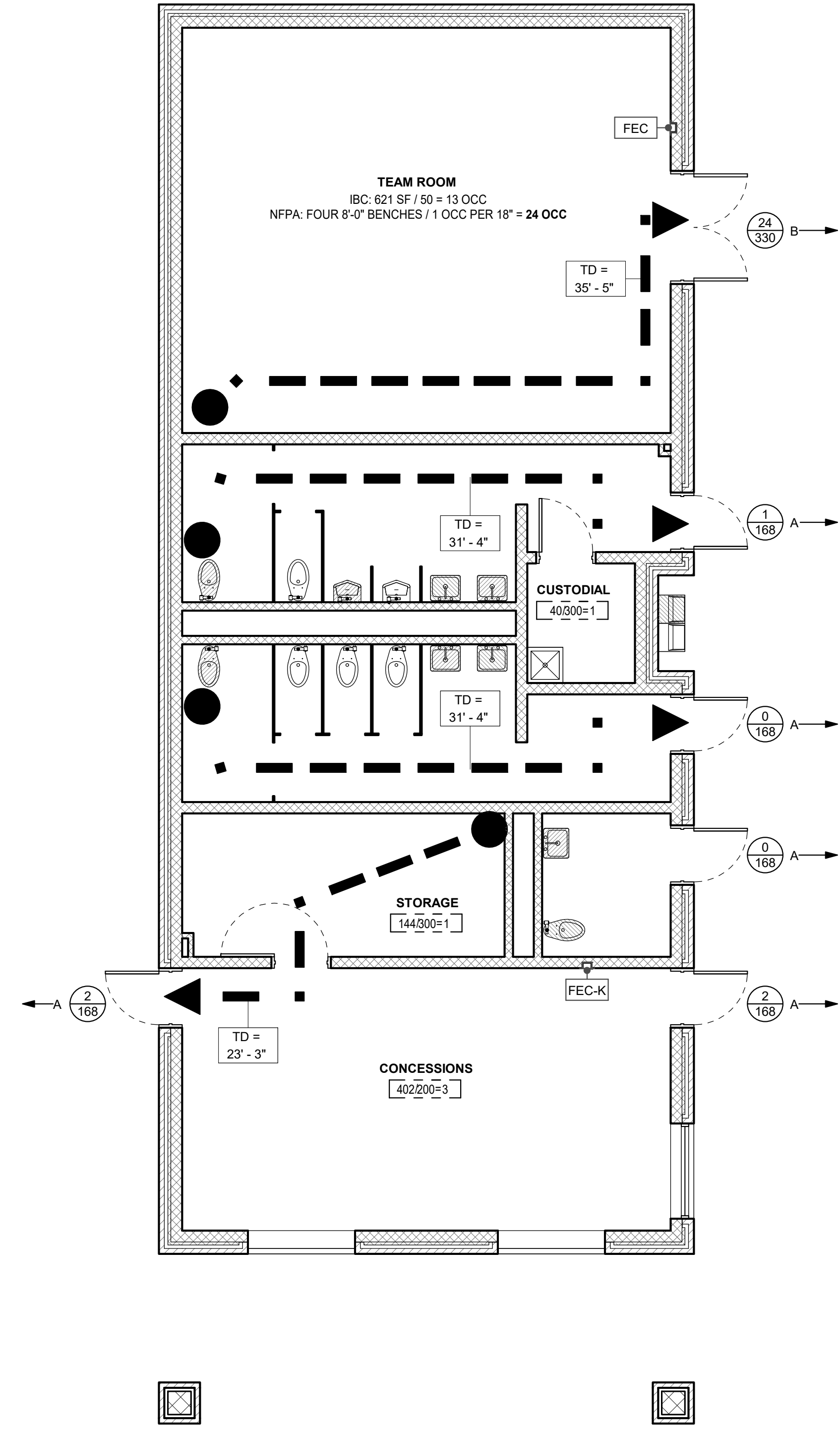
IECC C402.2.2 ABOVE-GRADE WALLS "MASS WALLS" WHERE USED AS A COMPONENT IN THE THERMAL ENVELOPE OF A BUILDING SHALL COMPLY WITH ONE OF THE FOLLOWING:
 1. WEIGH NOT LESS THAN 35 POUNDS PER SQUARE FOOT OF WALL SURFACE AREA.
 THE EXTERIOR WALLS OF THIS BUILDING WILL BE 8" CMU REINFORCED AT 32" OC CENTER = 47 POUNDS PER SQUARE FOOT

29 SECTION 2902 MINIMUM PLUMBING FACILITIES

CLASSIFICATION (OCCUPANCY)	WATER CLOSET		LAVATORIES		DRINKING FOUNTAINS		SERVICE SINK	
	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.*	REQ.	PROV.
MERCANTILE	1 PER 500		1 PER 750		1 PER 1000		1	
	1	9	7	5	7	2	7	1



2 EGRESS DOOR WIDTHS
SCALE: 1/2" = 1'-0"



1 CODE ANALYSIS FLOOR PLAN
SCALE: 3/16" = 1'-0"

ARCHITECT



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ALBAN ENGINEERING
303 INTERNATIONAL CIRCLE, SUITE 450
HUNT VALLEY, MD 21030

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland. License No.: 16066, Expiration Date: 1/6/2026.

PROFESSIONAL SEAL:

PRINTS ISSUED

NO.	DESCRIPTION:	DATE:
1	CD COORDINATION SET	12/06/2023
2	CD 90% SET	12/19/2023
3	BID DOCUMENTS	4/8/2024

LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING
ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:
CODE ANALYSIS

PROJECT NO: 23010	
DATE: 4/8/2024	
SCALE: As indicated	
DRAWN BY: PN	
CHECKED BY: BM	
SHEET NO:	

A-1

GENERAL DOOR AND FRAME NOTES

A. COORDINATE ALL LINTELS WITH STRUCTURAL DRAWINGS.
 B. ALL EXTERIOR HOLLOW METAL DOORS AND FRAMES ARE TO BE INSULATED PER SPECS.
 C. ALL HOLLOW METAL DOORS AND FRAMES ARE TO BE PAINTED, COLOR PER FINISH SCHEDULE NOTES.
 D. WALLS 8" OR LESS SHALL HAVE WRAP AROUND FRAMES AND WALLS LARGER THAN 8", INCLUDING CAVITY WALLS, SHALL HAVE 8" FRAMES.
 E. COORDINATE DOOR AND FRAME SIZES BEFORE FABRICATION. REFER ALSO TO DOOR AND FRAME SCHEDULE. COORDINATE DOOR FRAMES WITH ELECTRICAL. DO NOT GROUT DOOR HEADS SOLID.
 F. ALL FRAMES TO BE GLAZED WITH GLAZING STOP SURFACE. COORDINATE STOP SIZES WITH WIDTH OF GLAZING GLAZERS.
 G. INDICATED WINDOW/FRAME DIMENSIONS ARE NOMINAL. GENERAL CONTRACTOR SHALL COORDINATE ACTUAL SIZES OF MASONRY OPENINGS AND WINDOWS/FRAMES.
 H. FOR DOOR HARDWARE SETS. SEE SPECIFICATIONS. COORDINATE UNDERCUTS WITH HARDWARE/L UNO, PROVIDE 3/4" FACTORY UNDERCUTS AT ALL EXTERIOR AND TOILET ROOM DOORS, AND 3/8" FACTORY UNDERCUTS AT ALL OTHER DOORS.
 I. ALL NEW GLAZING SHALL BE SAFETY GLAZING - REFER ALSO TO GLAZING SPECIFICATION.
 K. CONTRACTOR SHALL FIELD VERIFY ALL OPENINGS.
 L. DOOR CONSTRUCTION TO COMPLY WITH ADA 402.2.10 (SURFACE) AND ADA 402.2.11 (LITE HEIGHT). DOOR INSTALLATION TO COMPLY WITH ADA 402.3 (CLOSING SPEED) AND 402.3 (OPENING FORCE).
 N. ALL PUSH BARS, LEVERS, ETC SHALL BE LOCATED AT 36" TO CENTERLINE U.O.
 O. ALL DOOR HARDWARE IS TO BE ADA COMPLIANT.
 P. REFER TO FLOOR PLANS FOR DOOR SWING DIRECTIONS.
 Q. PROVIDE BLINDS PER SPEC AT ALL WINDOWS. PROVIDE ROLLER SHADES PER SPEC AT DOOR VISIONS.

HOLLOW METAL FRAME TYPES
SCALE: 1/8" = 1'-0"

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

HOLLOW METAL WINDOW TYPES
SCALE: 1/8" = 1'-0"

LOCATION		DOOR		FRAME		FRAME MATERIAL		FIRE RATING (MIN)		HARDWARE		COMMENTS
NO.	FROM	TO	PAIR	SIZE	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	FIRE RATING (MIN)	HARDWARE		
C100A	CONCESSIONS	EXTERIOR		3'-0" x 7'-0" x 1'-3/4"	A1	HM	HM01	HM		1		
C100B	EXTERIOR	CONCESSIONS		3'-0" x 7'-0" x 1'-3/4"	A1	HM	HM01	HM		2		
C101	FAMILY RESTROOM	EXTERIOR		3'-0" x 7'-0" x 1'-3/4"	A1	HM	HM01	HM		2		
C102	STORAGE	CONCESSIONS		3'-0" x 7'-0" x 1'-3/4"	A1	HM	HM01	HM		3	180 SWING	
C104	EXTERIOR	WOMEN'S RESTROOM		3'-0" x 7'-0" x 1'-3/4"	A1	HM	HM01	HM		4		
C105	MEN'S RESTROOM	CUSTODIAL		3'-0" x 7'-0" x 1'-3/4"	A1	HM	HM01	HM		3.1		
C106	MEN'S RESTROOM	EXTERIOR		3'-0" x 7'-0" x 1'-3/4"	A1	HM	HM01	HM		4		
C107	EXTERIOR	TEAM ROOM	PAIR	6'-0" x 7'-0" x 1'-3/4"	A2	HM	HM02	HM		5		PART OF ALTERNATE #1

TAG	DESCRIPTION	MODEL	COMMENTS
EQ-1	KITCHEN WORK STATION TABLE	ST4-3072SK-4	
EQ-2	G-SERIES 2 SECTION DISPLAY REFRIGERATOR	G21010-043	
EQ-3	G-SERIES 3 SECTION DISPLAY REFRIGERATOR	G32010-043	
EQ-4	G-SERIES 2-SECTION REFRIGERATOR REACH-IN	G20010	
EQ-5	G-SERIES 2-SECTION FREEZER REACH-IN	G22010	
EQ-6	STAINLESS STEEL WALL-MOUNTED COUNTERTOP		20" DEEP (SEE NOTE BELOW), 34" HIGH WITH SS BACKSLASH AND SIDESPLASHES. ROUNDED CORNERS. REFER TO PLUMBING
EQ-7	SINK, 3 COMPARTMENT		REFER TO PLUMBING
EQ-8	WALL MOUNTED HAND SINK		REFER TO PLUMBING
EQ-9	WALL MOUNTED CABINETS		33" WIDE, 30" HIGH, 14" DEEP. MOUNT AT 5'-6". PROVIDE ADJUSTABLE SHELVING.
EQ-10	METAL SHELVING		24" WIDE, 72" HIGH, 18" DEEP
EQ-11	COUNTERTOP MICROWAVE	WMC30516H	
EQ-12	WALL MOUNTED MICROWAVE	WMH31017H	
EQ-13	RUBBERMAID BRUTE 44 GAL. TRASH CAN	H-1046	32" HIGH, 24" DIAMETER. GRAY HEAVY DUTY PLASTIC.
EQ-14	BENCH (OOD SALSBURY)	77778	PART OF ALTERNATE #1
EQ-15	MARKER BOARD		PART OF ALTERNATE #1
EQ-16	GREASE INTERCEPTOR		REFER TO PLUMBING DRAWINGS
EQ-17	CHANGING TABLE	KB310-SSRE	
FEC	FIRE EXTINGUISHER CABINET		PART OF ALTERNATE #1
FEC-K	FIRE EXTINGUISHER CABINET - KITCHEN		
W1	OVERHEAD COLING WINDOW		

PROVIDE AND INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS
 FOR EQ-6, 20" DEPTH IS PREFERRED, HOWEVER 25" DEPTH IS ACCEPTABLE IF CHEAPER/MORE READILY AVAILABLE (CONTRACTOR'S OPTION)

ALUMINUM THRESHOLD, FASTEN TO ONE SIDE OF CONCRETE ONLY USING COUNTERSINK FLATHEAD EXPANSION BOLTS @ 2'-0" O.C.
 GROUT SOLID

NOTES:

- CONTRACTOR SHALL INSTALL THIS THRESHOLD AT ALL EXTERIOR DOORS.
- THRESHOLDS TO BE CENTERED ON DOOR FRAMES. ASSOCIATED FLOOR FINISHES TO EXTEND FULLY TO THRESHOLDS AS INDICATED.

THRESHOLD / TRANSITION DETAIL
SCALE: 6" = 1'-0"

NOTE: REFER TO STRUCTURAL DRAWINGS FOR APPROPRIATE LINTELS

HEAD/JAMB AT TYP. CMU WALLS

HEAD/JAMB AT THICK CMU WALLS

3 HOLLOW METAL HEAD AND JAMB DETAILS
SCALE: 1 1/2" = 1'-0"

HEAD & JAMB DETAIL MATERIAL LEGEND:

- A GROUT SOLID; COORD. W/ ELEC.
- B SEALANT (BOTH SIDES)
- C VENEER PER ELEVATIONS
- D CMU
- E SELF-ADHERED MEMBRANE
- F CONTINUOUS FLASHING
- G CAVITY WIDTH x 10" MORTAR STOP
- H INSULATION
- J LINTEL PER STRUCTURAL
- K CERAMIC TILE
- L FIELD BULLNOSE CORNER
- M NOT USED
- N OPEN HEAD JOINT @ 16" O.C.

ADA DIMENSIONS

SYMBOL	FEATURE / ACCESSORY	DIM
1A	ADA WATER CLOSET (TOILET SEAT HT)	18"
2A	ADA WATER CLOSET (CENTERLINE TO WALL)	17"
2A	URINAL (RIM HT AFF)	16"
3A	ADA LAVATORY (COUNTER HT AFF)	34" MAX
3A	ADA LAVATORY (KNEE CLEARANCE)	27" MIN
A & B	GRAB BAR (TOP OF GRIPPING SURFACE)	35"
C	GRAB BAR (VERTICAL)	40"
D	TOILET PAPER DISPENSER	13" MIN
E	PAPER TOWEL DISPENSER (OPERABLE PARTS)	44"-48"
F	SOAP DISPENSER (OPERABLE PARTS)	44"-48"
G	MIRROR	36"

ADA CLEARANCES

GRAB BAR

WATER CLOSET

URINAL

LAVATORY

TOILET TISSUE DISPENSER

PAPER TOWEL DISPENSER

SOAP DISPENSER

MIRROR

SANITARY NAPKIN DISPOSAL

MOP RACK

PREFIX LETTER

LEGEND:

LEGEND: PREFIX LETTER INDICATES WALL TYPE DESIGNATION NUMBER THAT FOLLOWS LETTER IN WALL TYPE DESIGNATION INDICATES NOMINAL THICKNESS OF WALL SYSTEM.

GENERAL NOTES:

- ALL MASONRY DIMENSIONS INDICATED ON WALL TYPES ARE NOMINAL.
- REFER TO ROOM FINISH SCHEDULE FOR WALL FINISHES, TYPICAL.
- CONTRACTOR SHALL PROVIDE FOOTING OR THICKENED SLAB AS REQUIRED AT WALLS WHERE REQUIRED BY STRUCTURAL DRAWINGS.
- ALL GWB TO BE 5/8" U.N.O. CONTRACTOR SHALL PROVIDE MOISTURE-RESISTANT GWB WHERE GWB PARTITIONS ARE SCHEDULED IN HIGH MOISTURE SPACES, SUCH AS TOILET ROOMS AND CONCESSIONS ROOM. REFER TO SPECIFICATIONS.

NEW CONSTRUCTION KEYNOTES:

- 24" x 24" ATTIC ACCESS HATCH IN CEILING ABOVE. COORDINATE EXACT LOCATION WITH TRUSS MANUFACTURER AND MEP WORK; PAINT.
- PROVIDE ALUMINUM DOWNSPOUT AND SPLASHBLOCK AT EACH CORNER OF THE BUILDING. SLOPE ALUMINUM GUTTERS TO DOWNSPOUTS. DOWNSPOUT AND GUTTER COLORS TO BE SELECTED BY OWNER.
- WALL-MOUNTED MICROWAVE. REFER TO EQUIPMENT SCHEDULE.
- COUNTERTOP MICROWAVE. REFER TO EQUIPMENT SCHEDULE.

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

GENERAL PLAN NOTES:

- ALL GENERAL NOTES AND SYMBOLS PERTAIN TO ALL NEW CONSTRUCTION PLANS.
- CONTRACTOR SHALL PROVIDE ACCESS PANELS IN WALLS AND CEILINGS WHERE REQUIRED BY MEP.
- REFER TO WALL TYPE LEGEND FOR INTERIOR WALL DETAILS AND NOTES.
- REFER TO WALL SECTIONS FOR TYPICAL EXTERIOR WALL COMPOSITION AND NOTES.

SYMBOLS LEGEND:

- AX/XX WALL SECTION/DETAIL
- XX/XX BUILDING ELEVATION
- XX/XX BUILDING SECTION
- XX/XX DETAIL BUBBLE
- Room name / 101 ROOM NAME / NUMBER
- 101 WALL TYPES, SYMBOL TO APPLY TO ENTIRE LENGTH OF WALL, UNLESS NEW WALL SYMBOL IS PROVIDED.
- X WINDOW TYPE
- 101 DOOR/FRAME NUMBER
- NEW DOOR AND FRAME
- MASONRY CONTROL JOINTS

MATERIALS LEGEND:

- NEW CMU WALL
- NEW INSULATED CAVITY WALL, CMU BACKUP

1 PROPOSED FLOOR PLAN
SCALE: 1/4" = 1'-0"

NOTE: REFER TO WEST ELEVATIONS FOR LOCATIONS OF CONTROL JOINTS AND MURAL WALL IN BASE BID AND ADD ALTERNATE #1

NOTE: REFER TO WEST ELEVATIONS FOR LOCATIONS OF CONTROL JOINTS AND MURAL WALL IN BASE BID AND ADD ALTERNATE #1

THIS WALL IS TO BE A TYP. EXT. CAVITY WALL UNDER BASE BID

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NO.	DESCRIPTION:	DATE:
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2	CD 90% SET	12/19/2023
3	BID DOCUMENTS	4/8/2024

LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING

ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:
PROPOSED FLOOR PLAN AND SCHEDULES

PROJECT NO: 23010

DATE: 4/8/2024

SCALE: As indicated

DRAWN BY: PN

CHECKED BY: BM

SHEET NO:

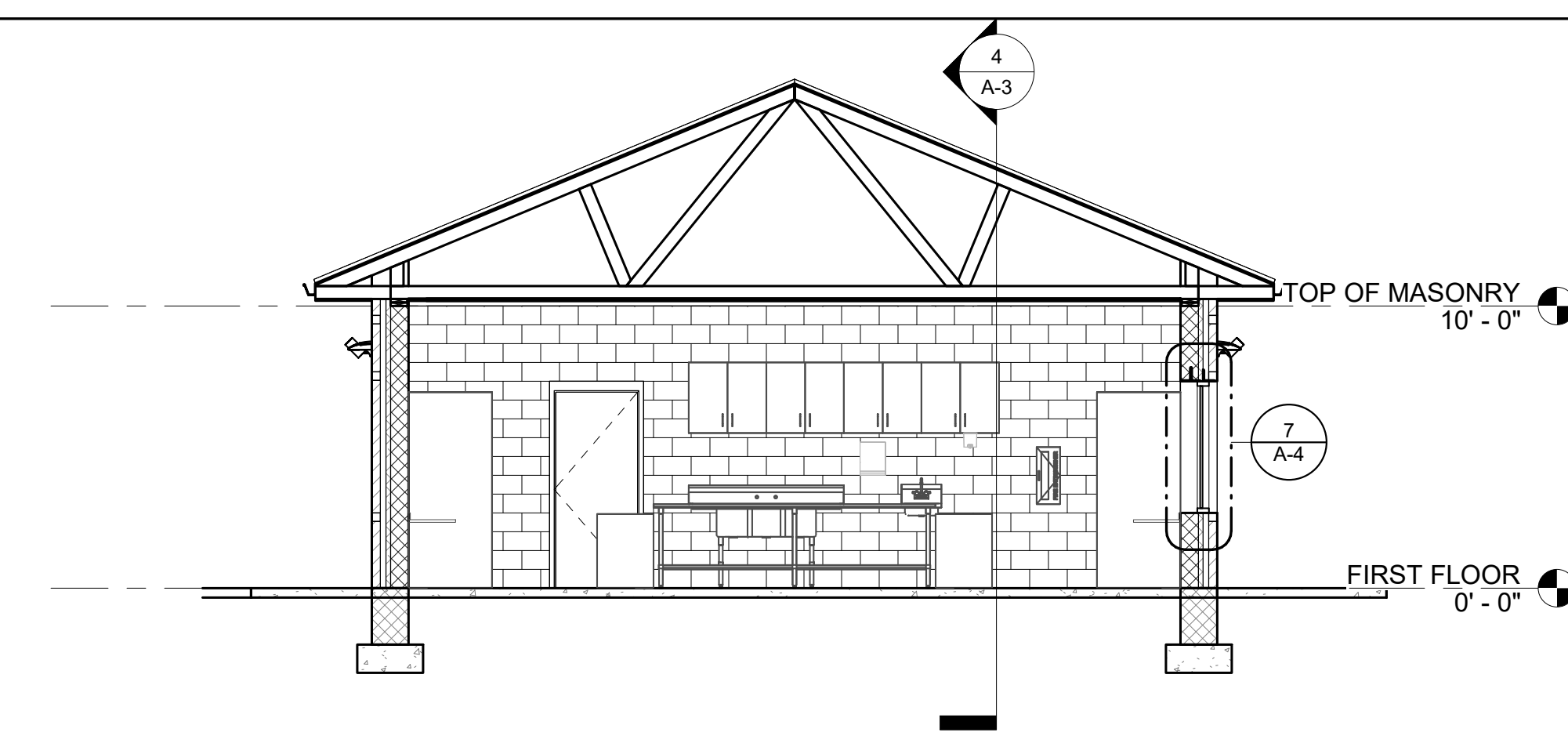
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ELEVATION LEGEND:

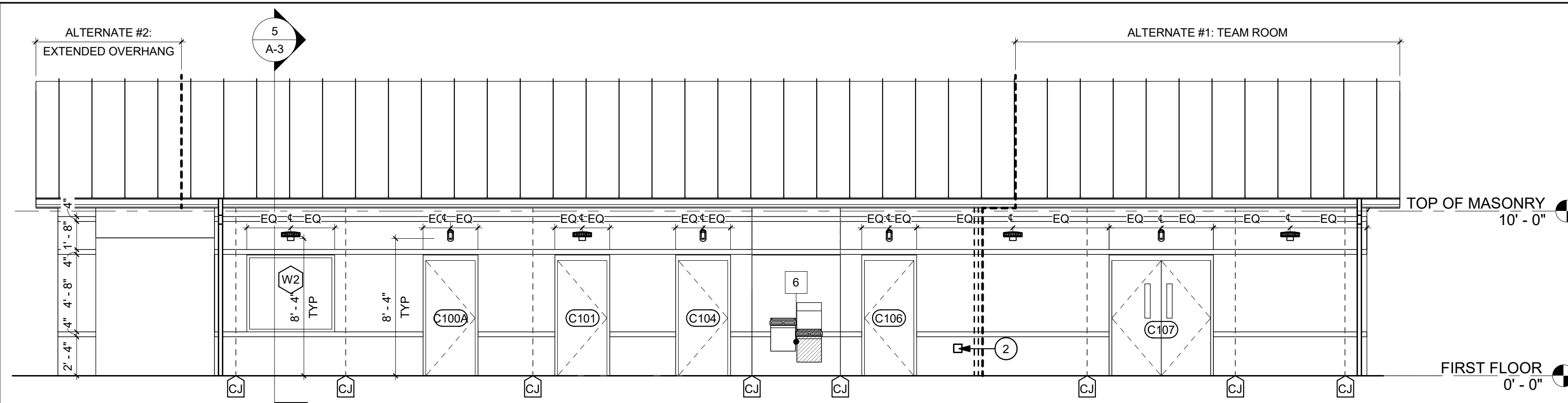
- (1A) BRICK TYPE 1A (MATCH TO EXISTING FIELD RED BRICK)
- (1B) BRICK TYPE 1B (MATCH TO EXISTING BANDING BEIGE BRICK)
- (1C) PLYWOOD SIDING PANELS, PAINTED SW 6126 NAVAJO WHITE. 8 O.D. GEORGIA-PACIFIC PLYTANUM T1-11 PANELS. INSTALL IN ACCORDANCE WITH ALL MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.
- (2) NON-FREEZE WALL HYDRANT WITH DOOR - COORDINATE WITH PLUMBING. MOUNT 1' - 8" FROM "FLOOR" LEVEL TO CENTERLINE OF NFVH U.N.O. COLOR TO BE SELECTED BY OWNER.
- (3) WALL-MOUNTED EXTERIOR LIGHT FIXTURE - COORDINATE WITH ELECTRICAL. REFER TO ELEVATIONS FOR MOUNTING HEIGHTS. COLOR TO BE SELECTED BY OWNER.
- (4) ALUMINUM GUTTER. SLOPE TO DOWNSPOUTS
- (5) PROVIDE ALUMINUM DOWNSPOUT AND SPLASHBLOCK AT EACH CORNER OF THE BUILDING. SLOPE GUTTERS TO DOWNSPOUTS. DOWNSPOUT COLOR TO MATCH GUTTERS
- (6) MASONRY CONTROL JOINT. COORDINATE CONTROL JOINTS WITH BRICK COURSING. SEALANT COLOR TO MATCH MASONRY VENEER BRICK TYPE 1A. REFER ALSO TO ARCHITECTURAL FLOOR PLAN FOR LOCATIONS AND TO STRUCTURAL DETAILS.

GENERAL NOTES:

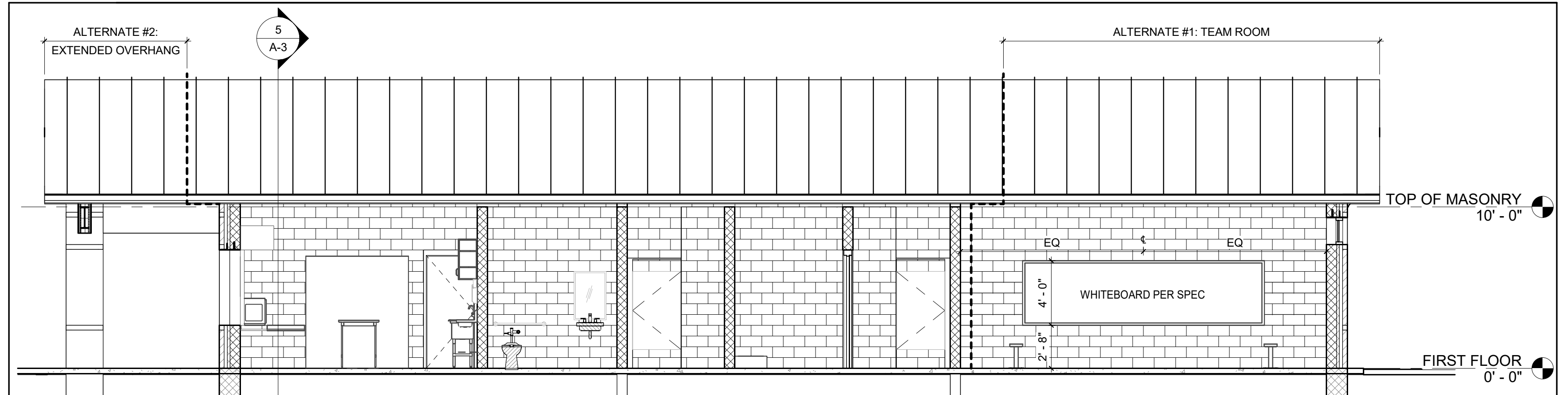
- A. REFER TO FLOOR PLAN FOR LOCATIONS OF MASONRY CONTROL JOINTS
- B. ALL EXPOSED STEEL IS TO BE HOT-DIP GALVANIZED, PREPARED, PRIMED, AND PAINTED - COLOR TO MATCH MASONRY DIRECTLY ABOVE



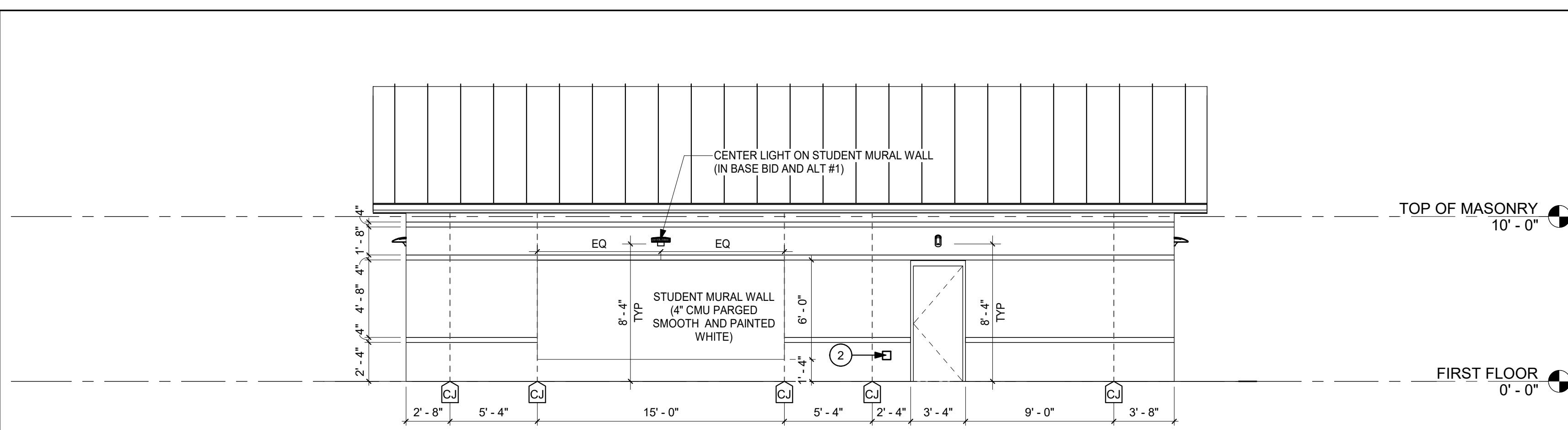
5 BUILDING SECTION 2
SCALE: 3/16" = 1'-0"



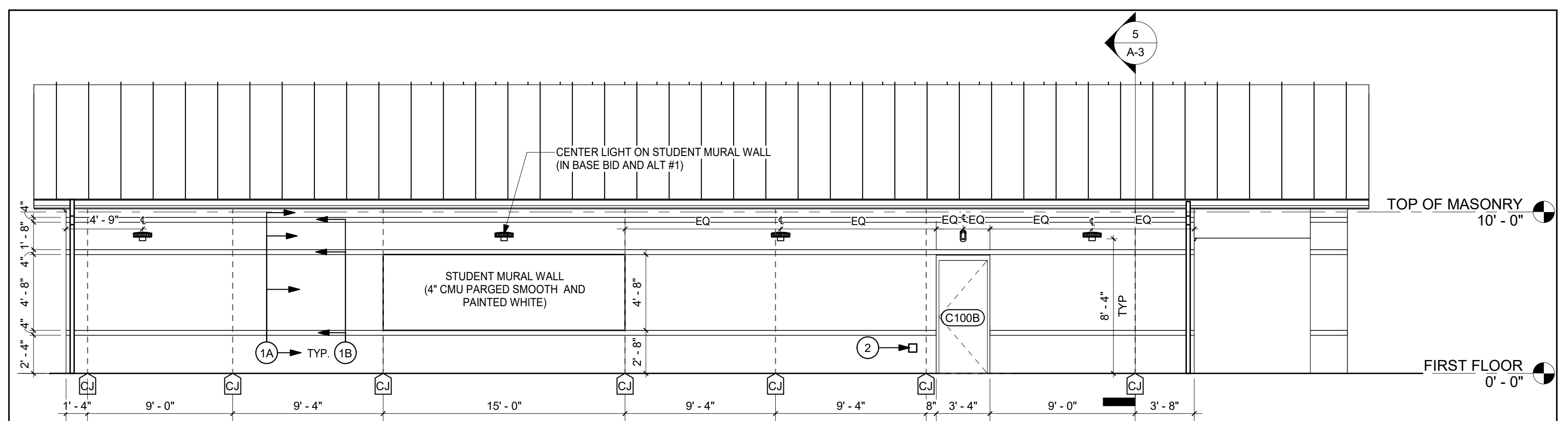
9 EAST ELEVATION
SCALE: 3/16" = 1'-0"



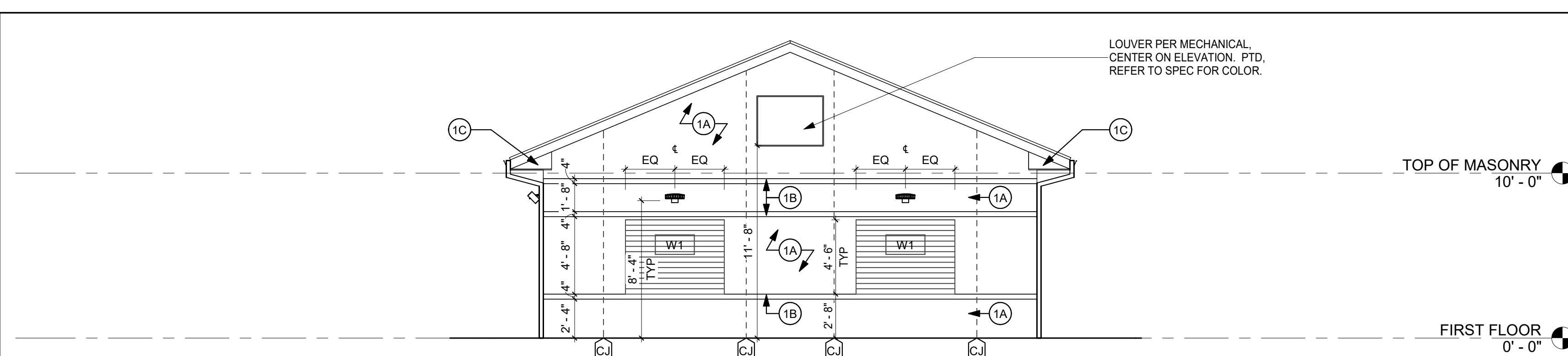
4 BUILDING SECTION 1
SCALE: 3/16" = 1'-0"



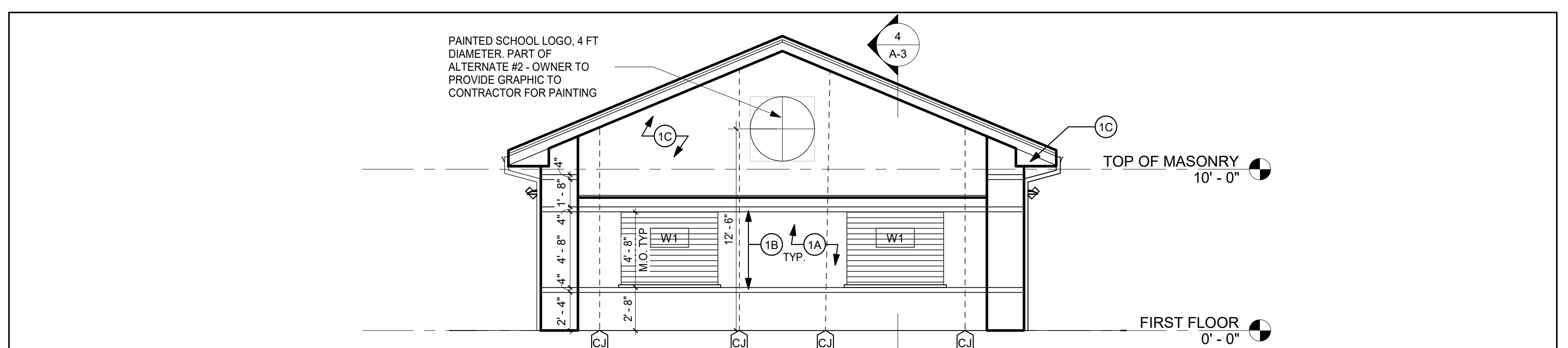
8 WEST ELEVATION - BASE BID
SCALE: 3/16" = 1'-0"



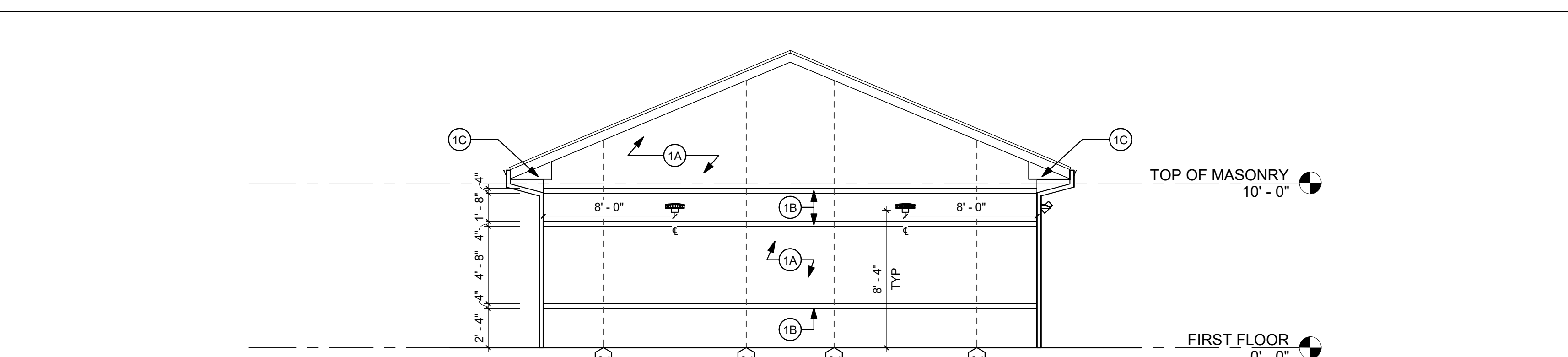
3 WEST ELEVATION - ALTERNATES
SCALE: 3/16" = 1'-0"



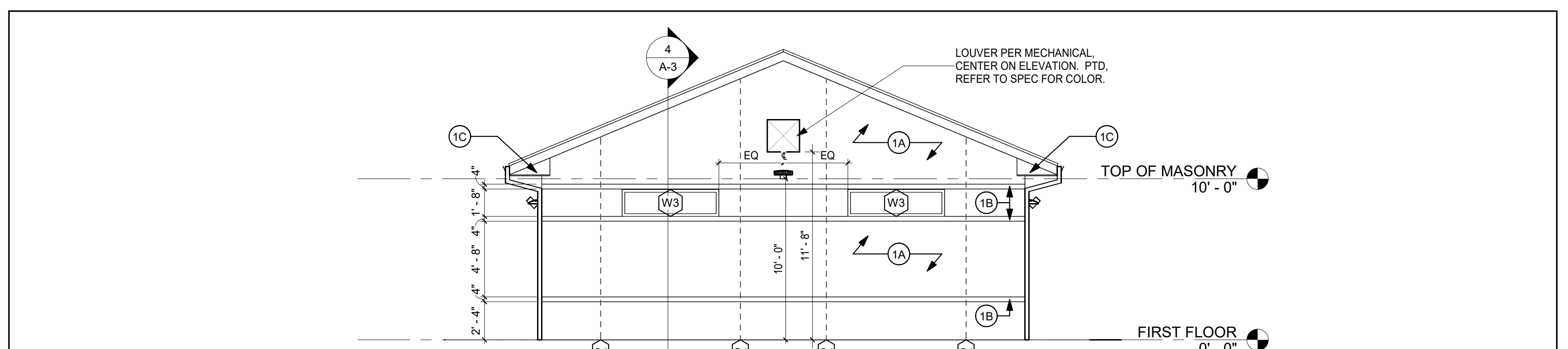
7 SOUTH ELEVATION - BASE BID
SCALE: 3/16" = 1'-0"



2 SOUTH ELEVATION - ALTERNATE #2
SCALE: 3/16" = 1'-0"



6 NORTH ELEVATION - BASE BID
SCALE: 3/16" = 1'-0"



1 NORTH ELEVATION - ALTERNATE #1
SCALE: 3/16" = 1'-0"

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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland. License No.: 16066, Expiration Date: 1/6/2026.

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LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING

ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:

BUILDING ELEVATIONS AND SECTIONS

PROJECT NO:

23010

DATE:

4/8/2024

SCALE:

As indicated

DRAWN BY:

PN

CHECKED BY:

BM

SHEET NO:

A-3



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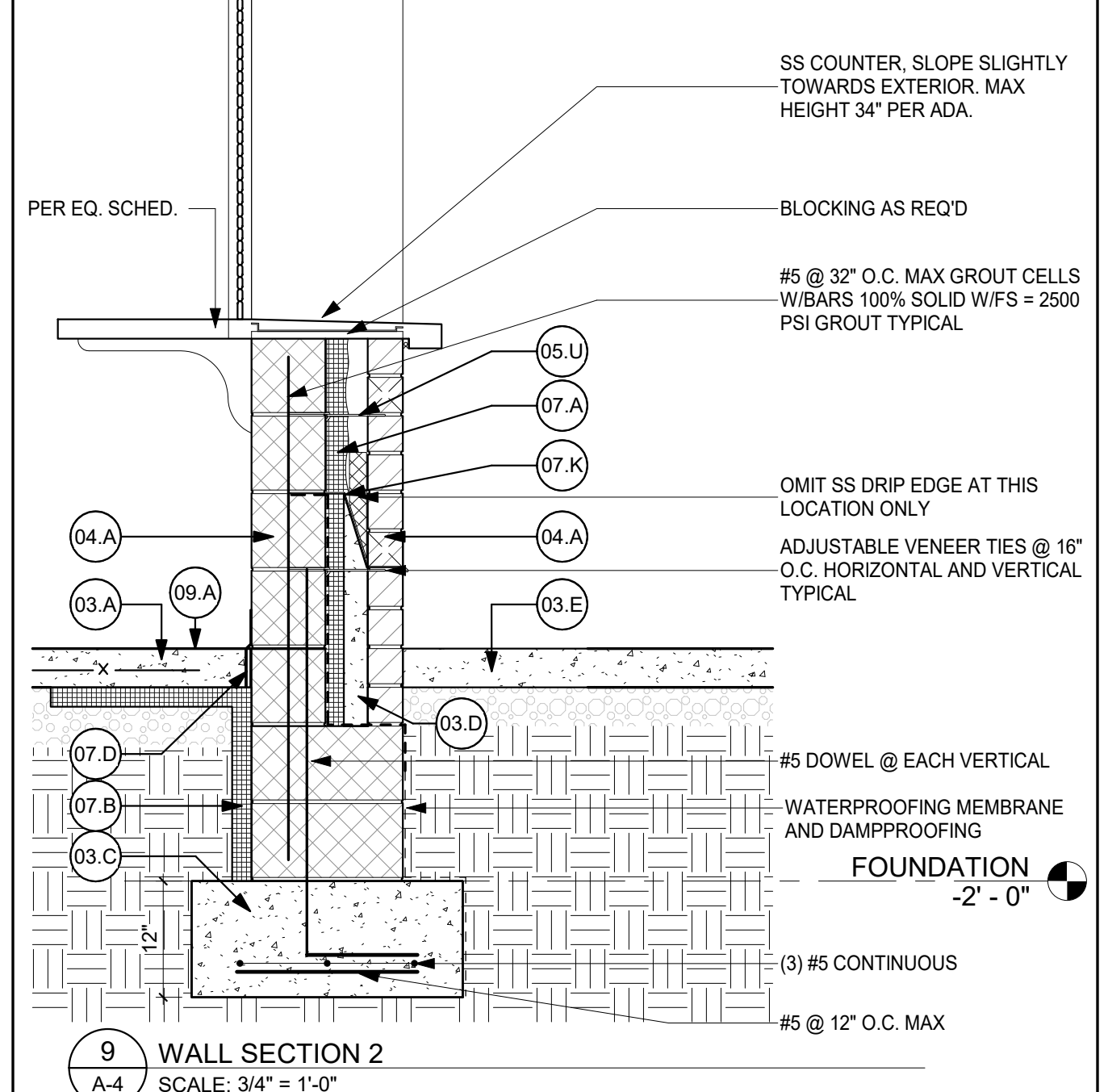
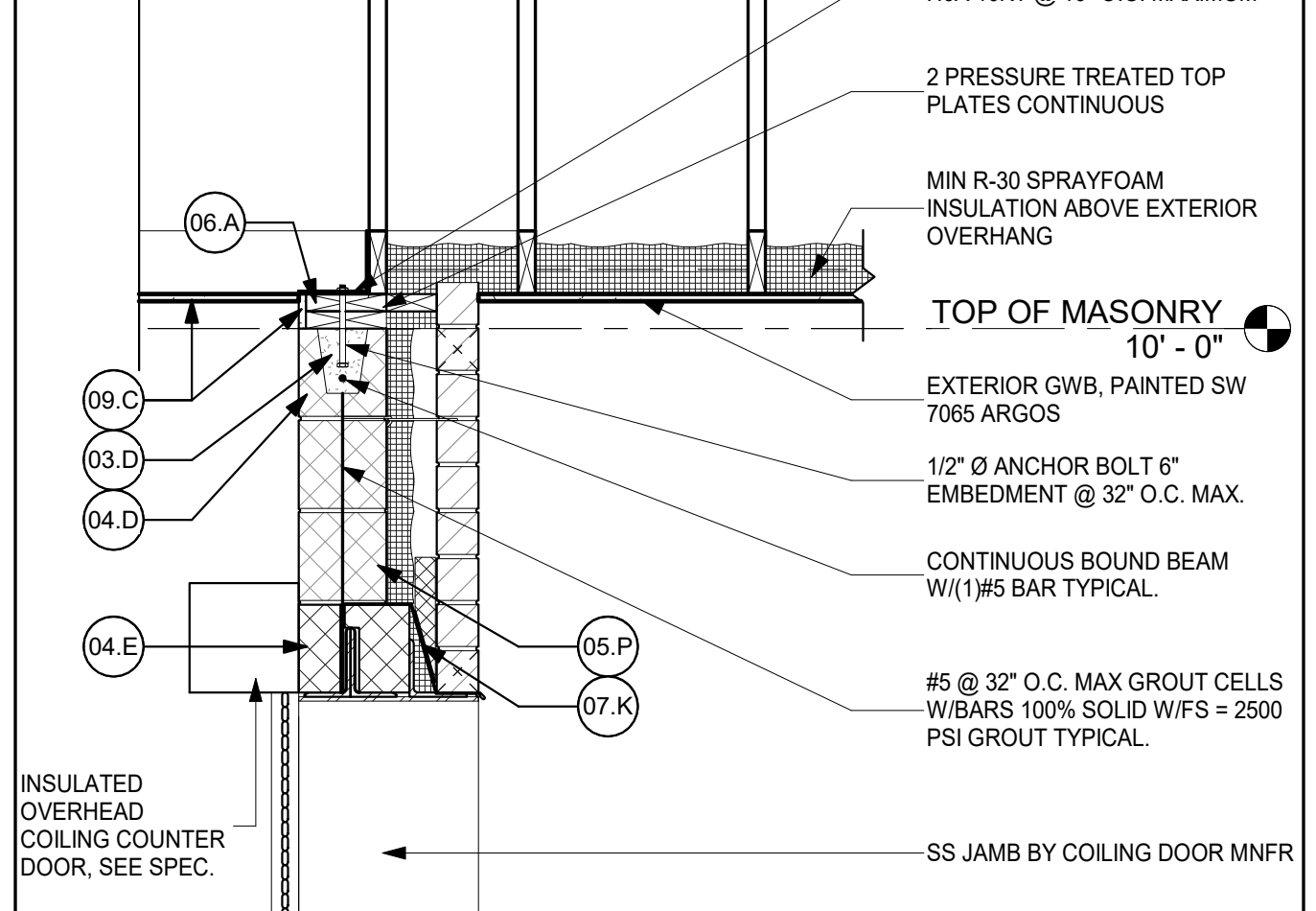
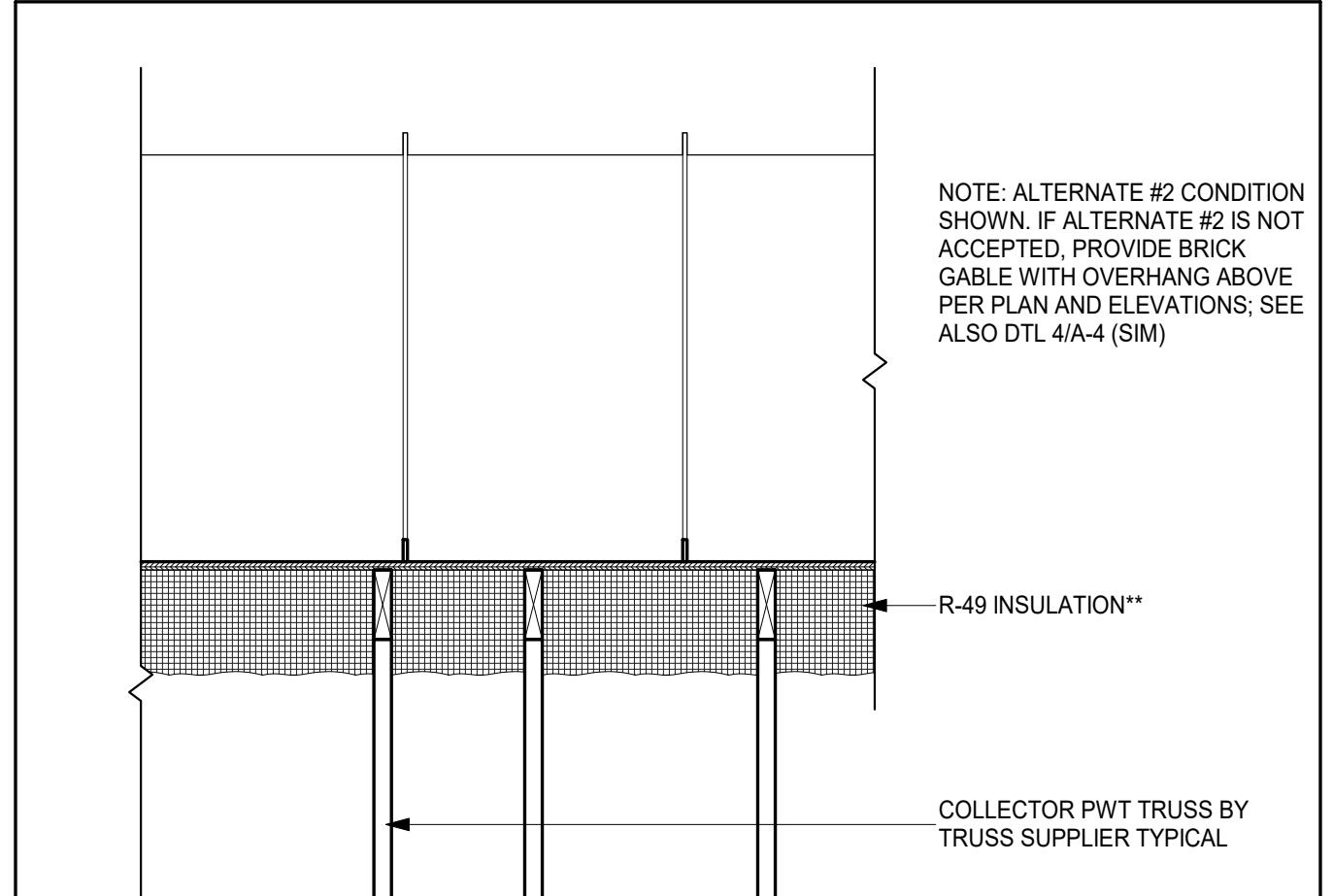
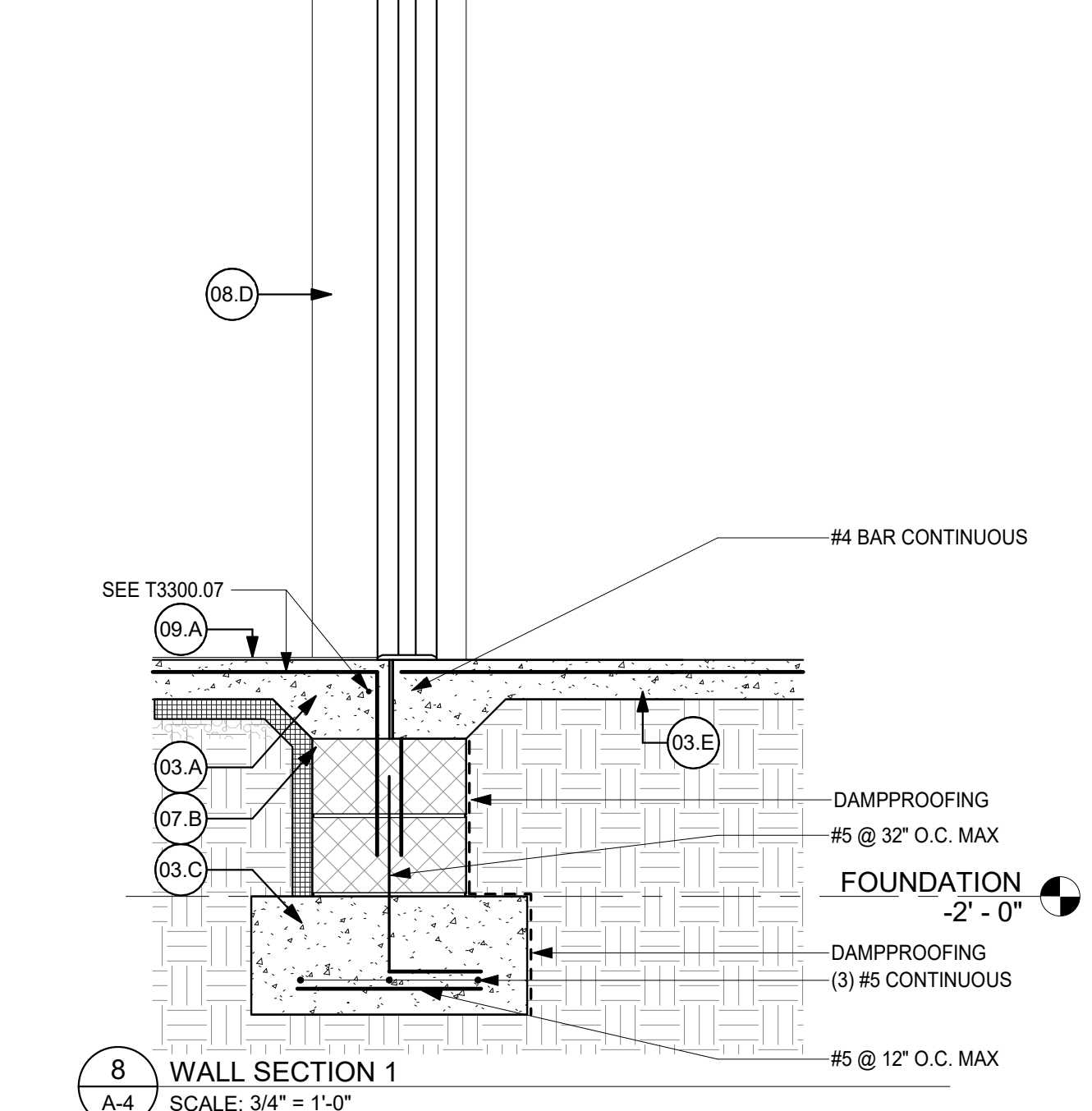
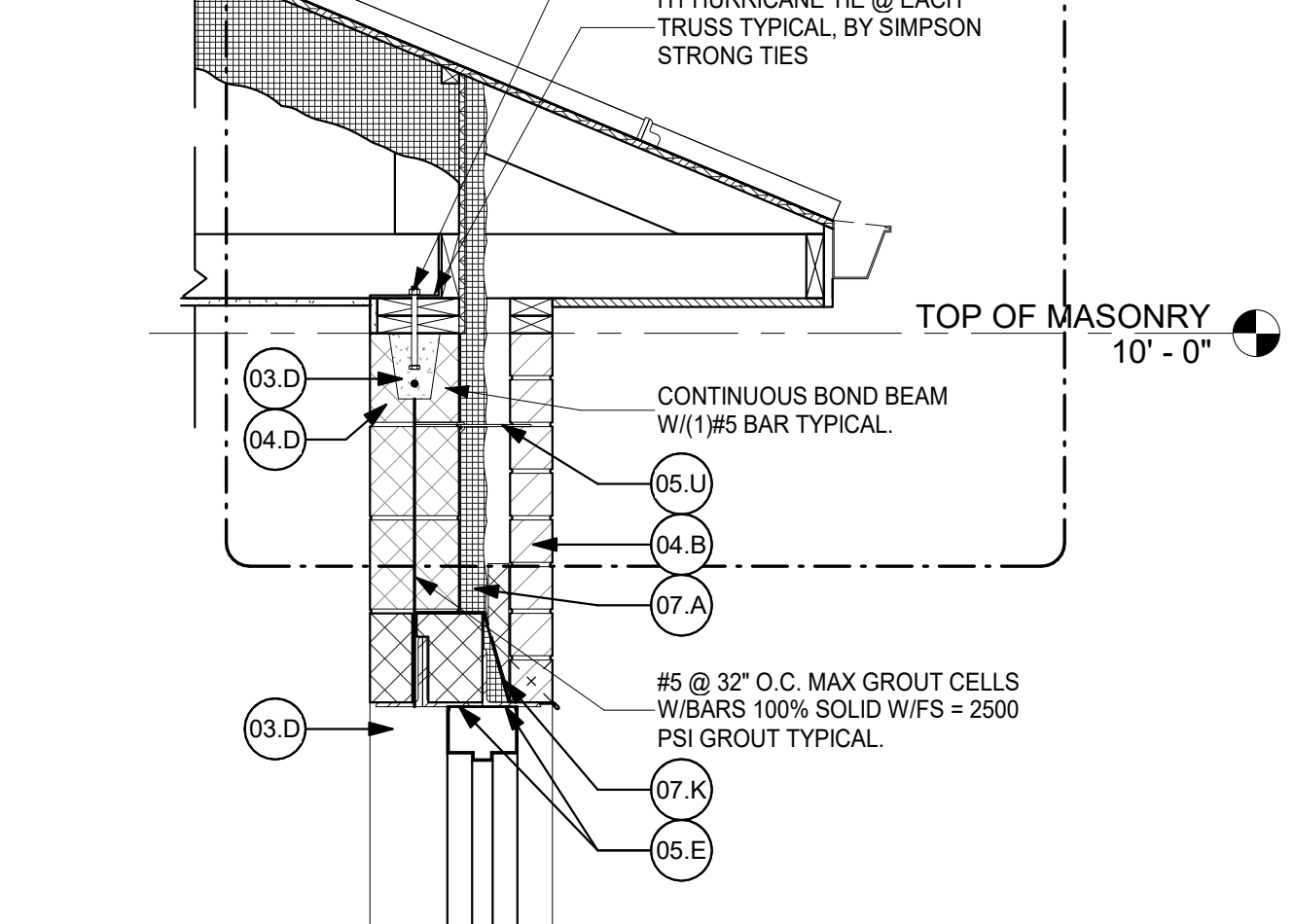
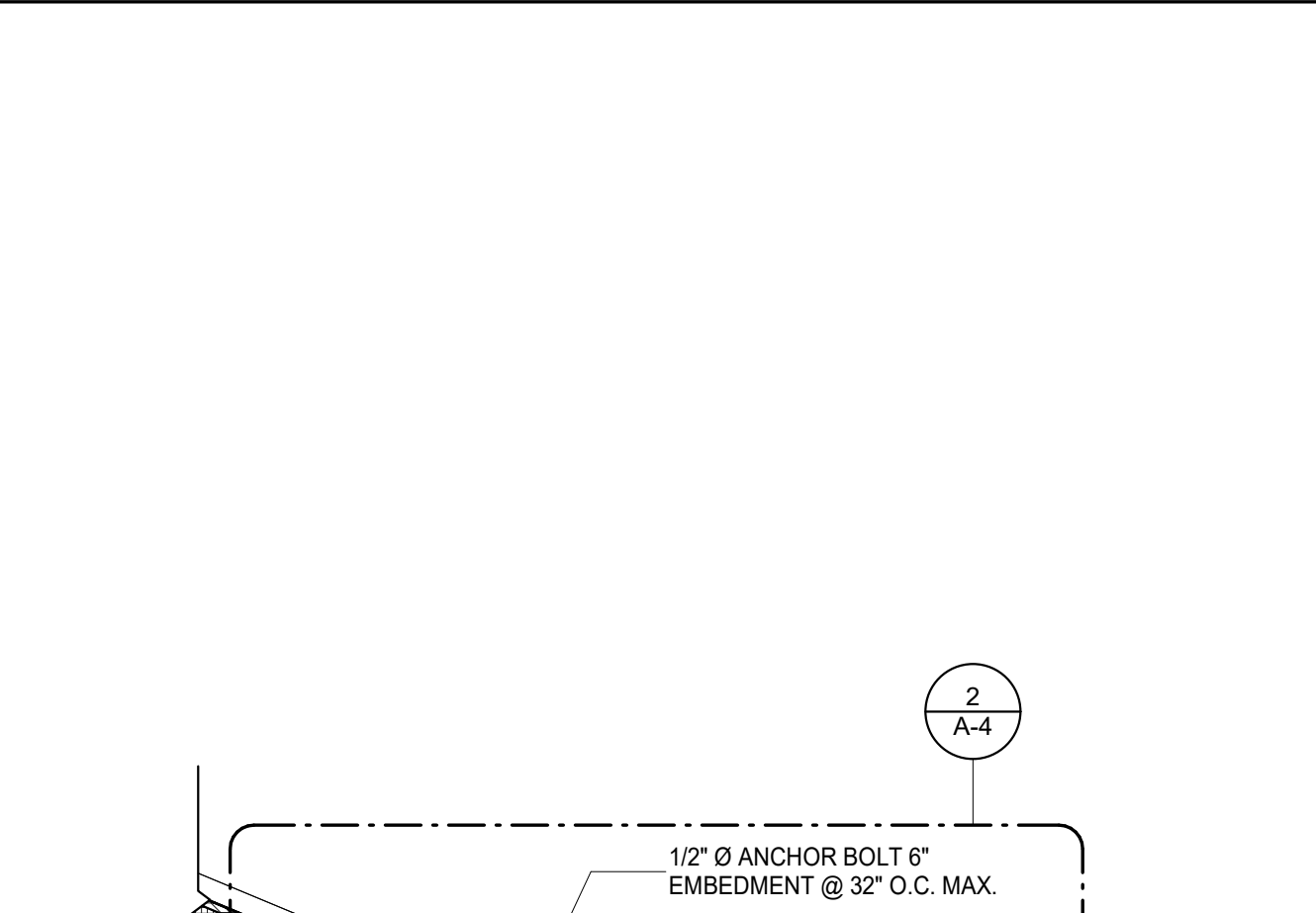
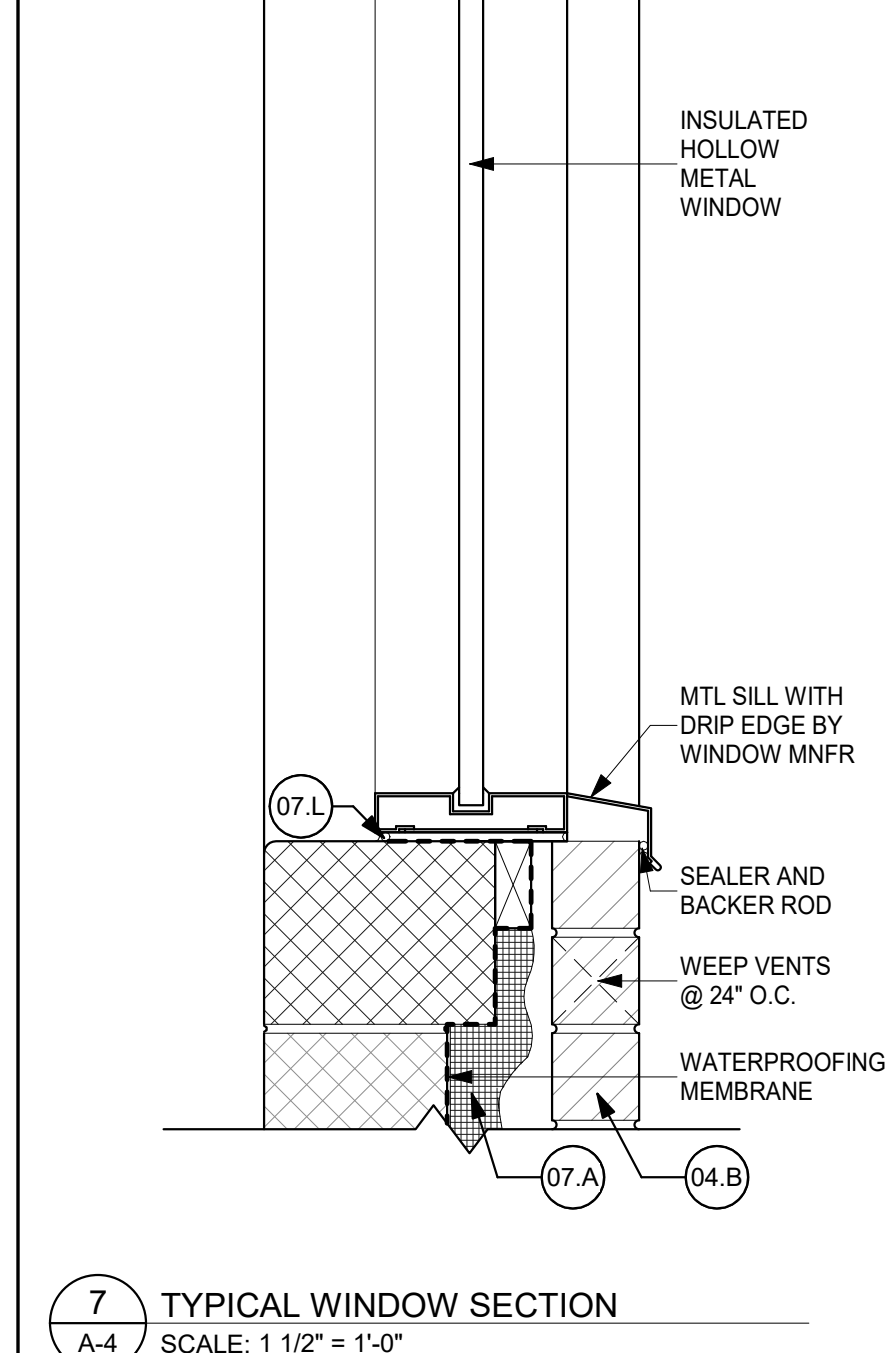
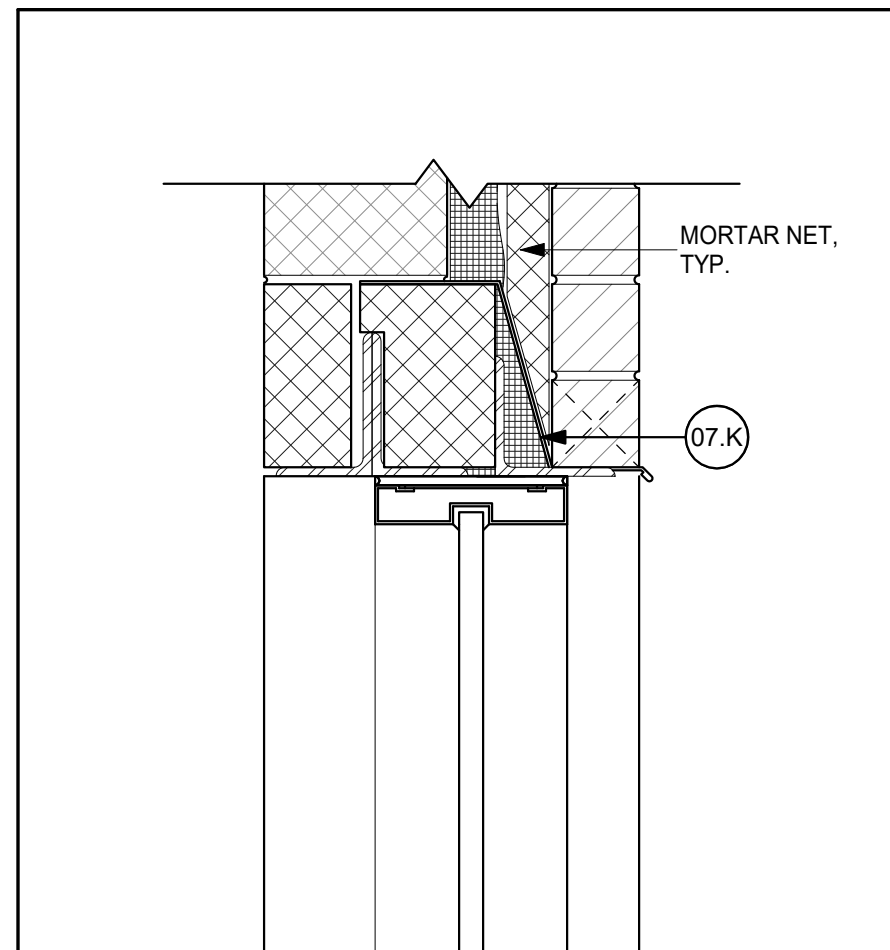
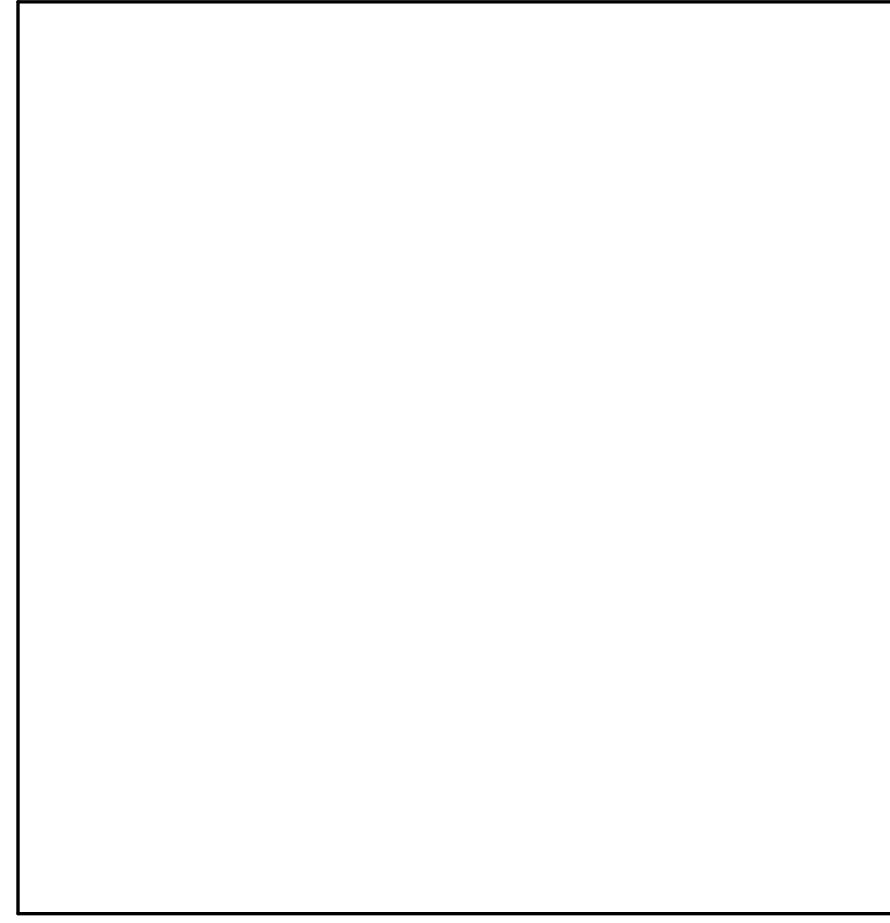
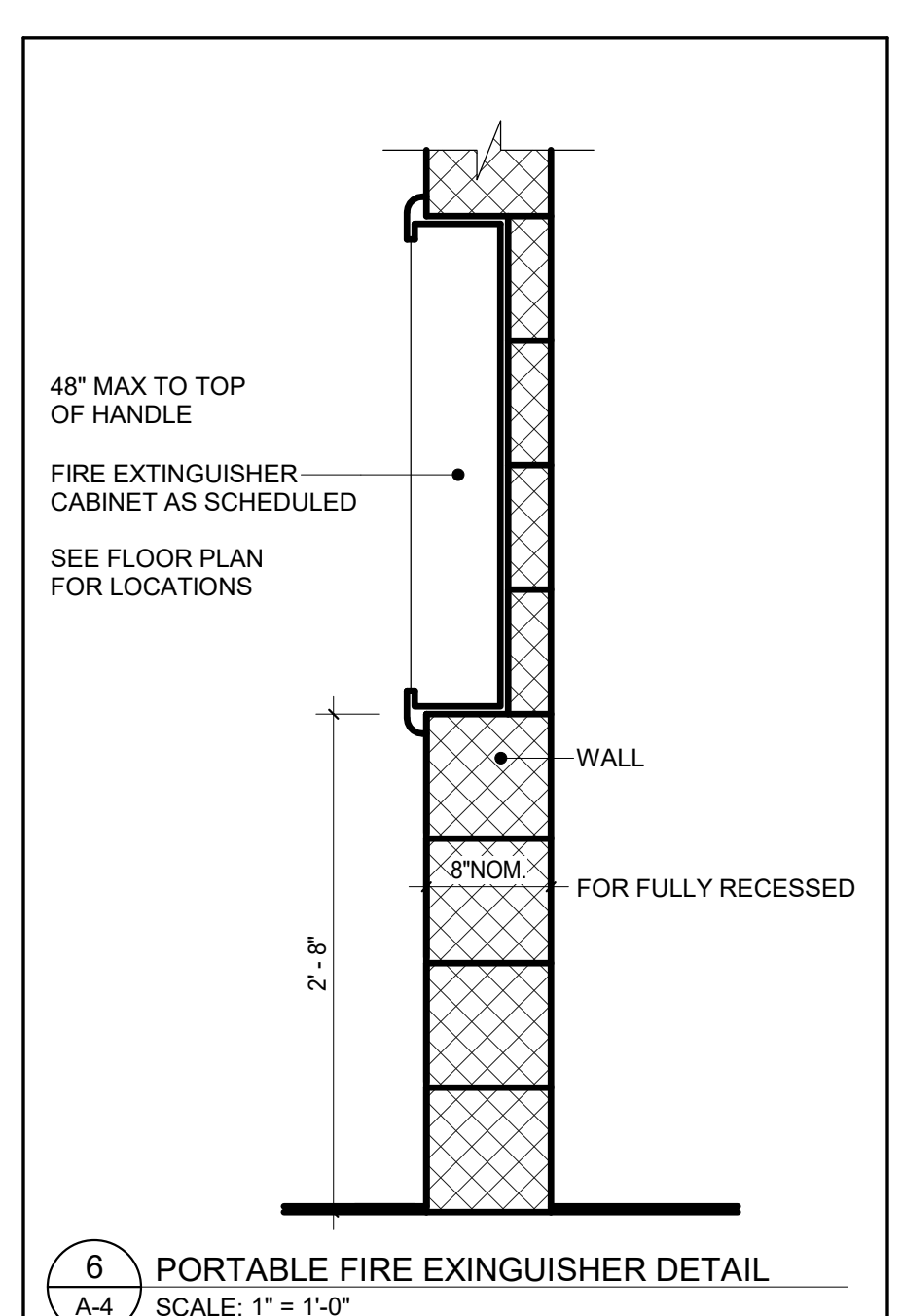
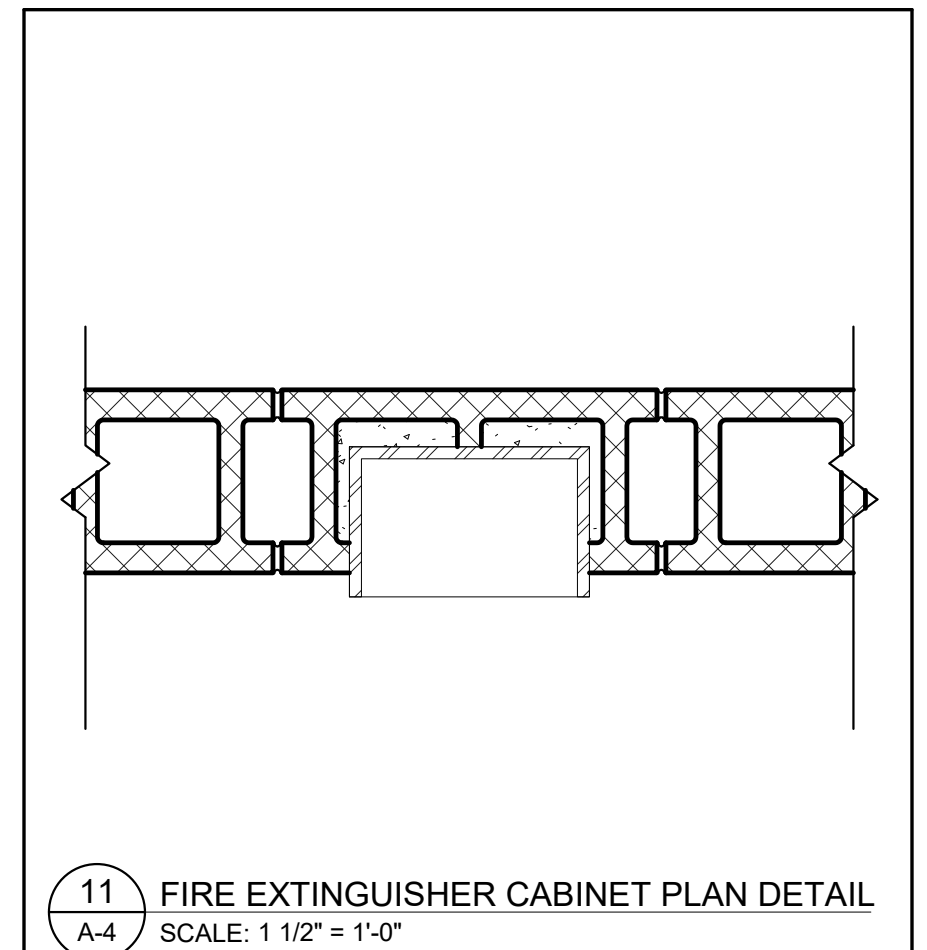
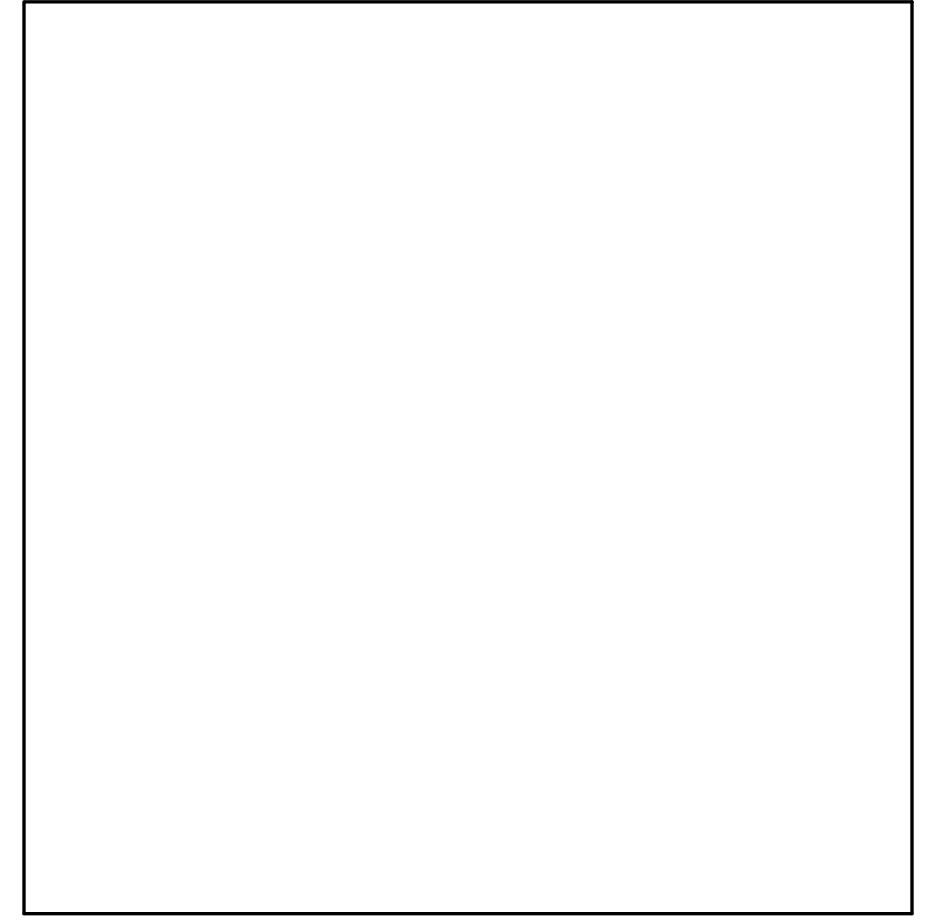
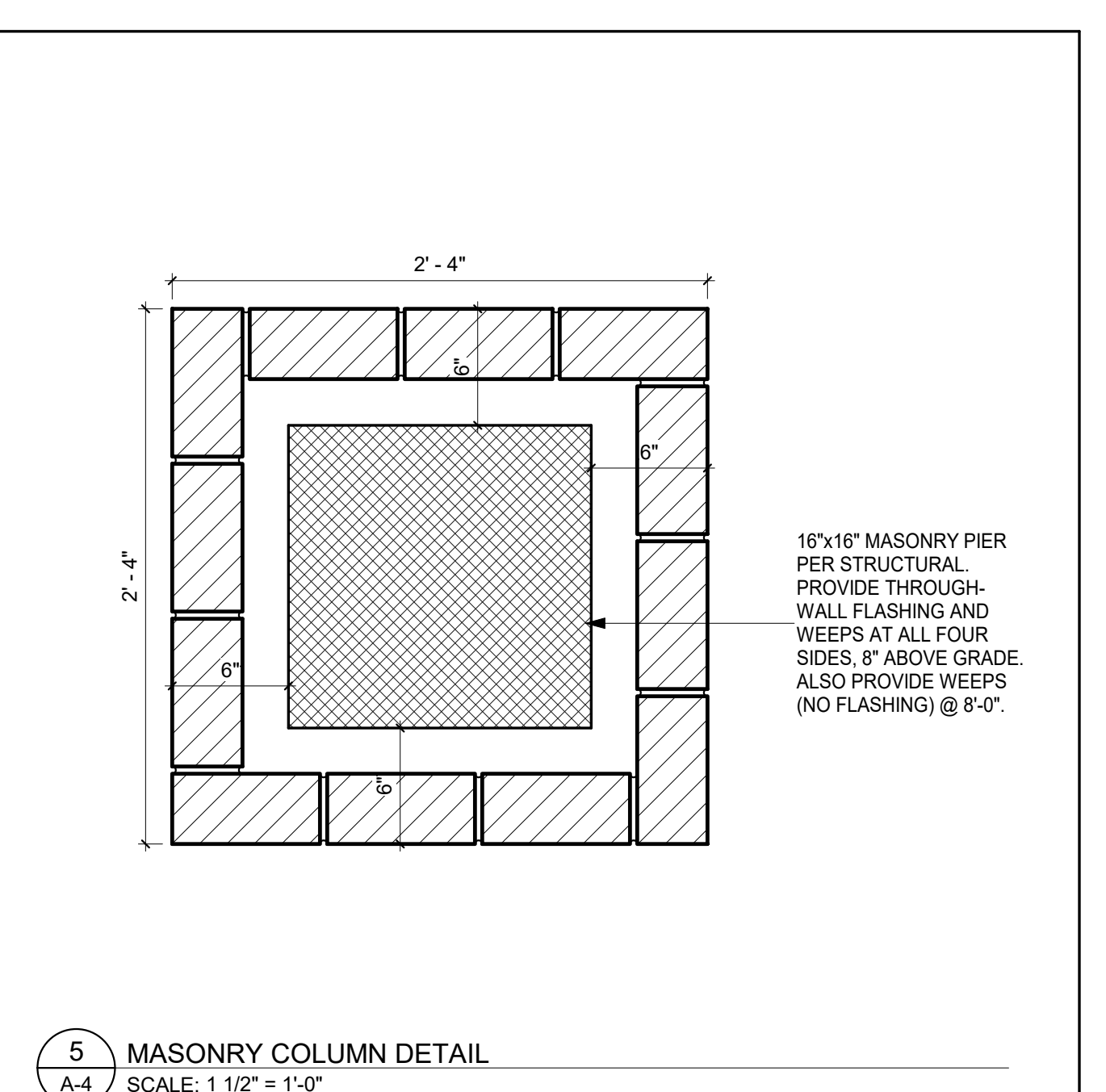
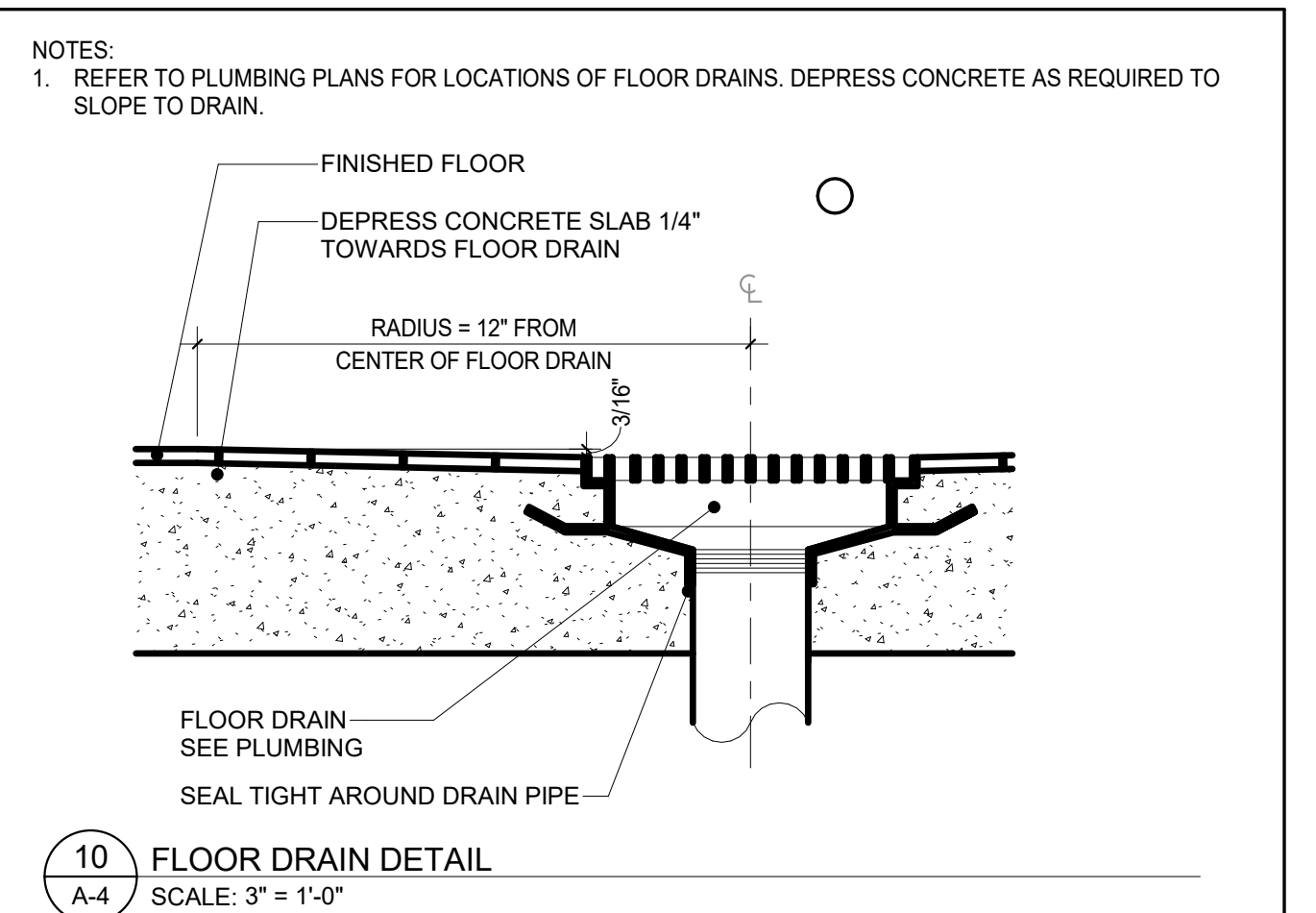
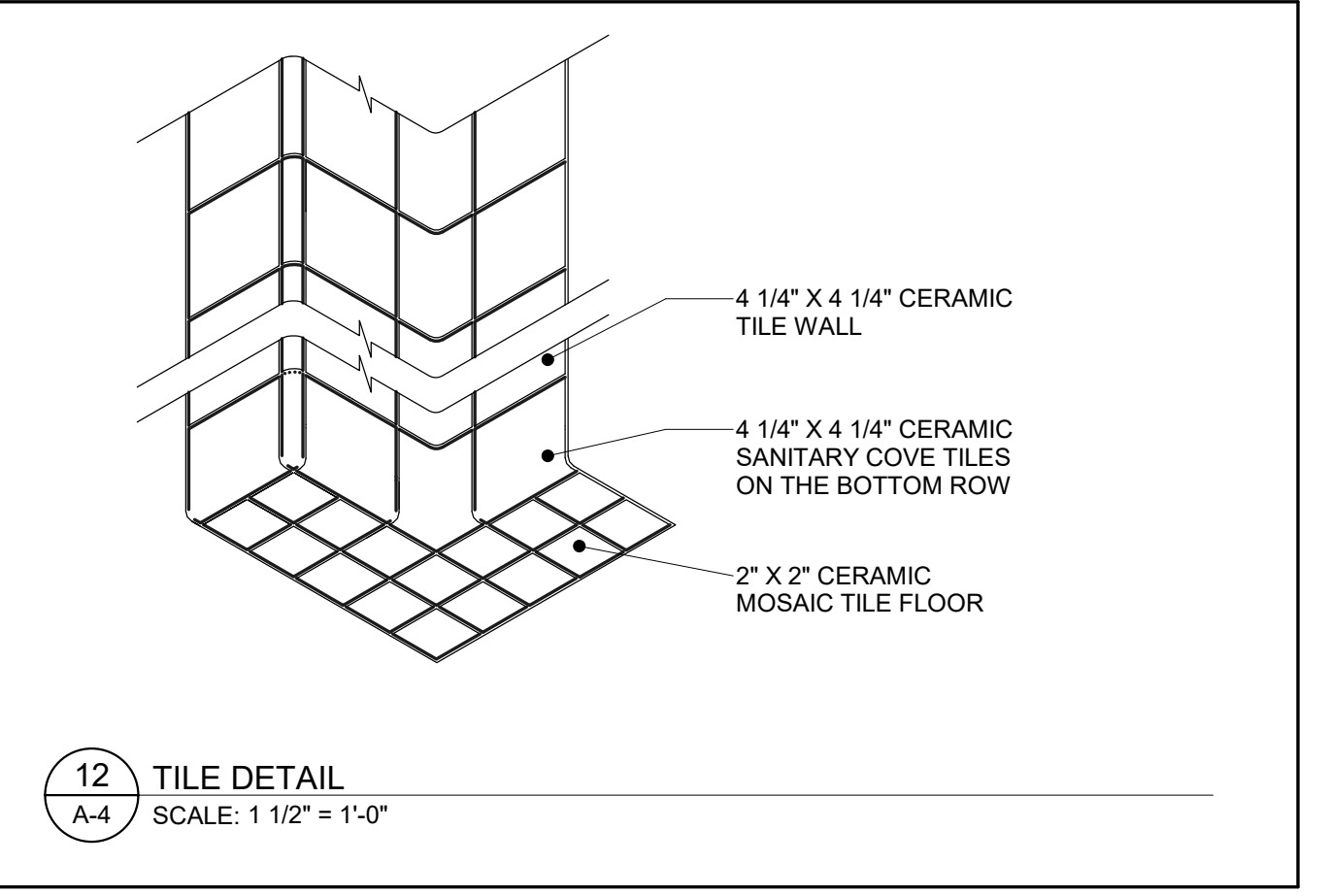
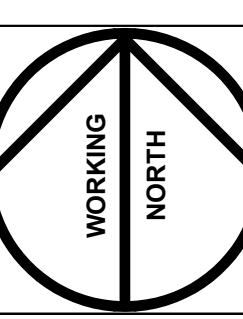
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LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING
ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:
WALL SECTIONS AND DETAILS

PROJECT NO: 23010
DATE: 4/8/2024
SCALE: As indicated
DRAWN BY: PN
CHECKED BY: BM
SHEET NO:



WALL SECTION NOTES:

DIVISION 3 - CONCRETE
03.A 5" REINFORCED CONCRETE SLAB ON 10 MIL. (PVC) VAPOR BARRIER, ON 4" GRAVEL, ON COMPACTED FILL, SEE STRUCTURAL
03.C CONCRETE FOOTING, SEE STRUCTURAL
03.D GROUT SOLID
03.E ASPHALT SIDEWALK, SEE CIVIL

DIVISION 4 - MASONRY
04.A TYPICAL CMU (PAINTED WHERE EXPOSED)
04.B MASONRY VENEER, SEE ELEVATION FOR TYPE
04.D CONTINUOUS REINFORCED BOND BEAM, SEE STRUCTURAL
04.E PRECAST LINTEL, SEE STRUCTURAL

DIVISION 5 - METALS
05.A HORIZONTAL JOINT REINFORCEMENT AND MASONRY TIES AT 16" O.C. VERTICAL (TYPICAL)
05.C STEEL BEAM, SEE STRL - ALL STEEL EXPOSED TO WEATHER IS TO BE HOT DIPPED GALVANIZED
05.E STEEL ANGLE, SEE STRL - ALL STEEL EXPOSED TO WEATHER IS TO BE HOT DIPPED GALVANIZED
05.N ALUMINUM THRESHOLD - ADA COMPLIANT
05.O STEEL BENT PLATE, SEE STRL - ALL STEEL EXPOSED TO WEATHER IS TO BE HOT DIPPED GALVANIZED
05.P STEEL BEAM AND HUNG PLATE, SEE STRL - ALL STEEL EXPOSED TO WEATHER IS TO BE HOT DIPPED GALVANIZED
05.U MASONRY TIES @ 16" O.C. VERTICAL

DIVISION 6 - WOOD & PLASTICS
06.A FIRE-RETARDANT WOOD BLOCKING
06.B 3/4" EXTERIOR GRADE PLYWOOD, FIRE RETARDANT TREATED

DIVISION 7 - THERMAL & MOISTURE
07.A SPRAYED INSULATION, MINIMUM R-9.5
07.B 2" PERIMETER INSULATION TO EXTEND VERTICALLY FROM TOP OF FOOTING AND 24" HORIZONTALLY, MINIMUM R-10
07.C 3/4" PARING AND DAMPROOFING
07.D PRE-MOLDED, COMPRESSIBLE EXPANSION JOINT FILLER
07.E SPRAYED INSULATION, MINIMUM R-4.9
07.F 1/2" NEOPRENE GASKET
07.K THROUGH-WALL FLASHING WITH PVC WEEP VENT INSERTS IN OPEN HEAD JOINTS @ 24" O.C. PROVIDE CAVITY WIDTH x 10" MORTAR STOP AT ALL THROUGH-WALL FLASHINGS, TYPICAL. PROVIDE SS DRIP EDGE U.N.O. SEALANT. PROVIDE BACKER ROD AS REQ'D
07.L SELF-ADHESIVE WATERPROOFING MEMBRANE
07.U FIRE STOPPING
07.V FOUNDATION WALL WATERPROOFING MEMBRANE

DIVISION 8 - DOORS & WINDOWS
08.D DOOR / FRAME, SEE SCHEDULE

DIVISION 9 - FINISHES
09.A FLOOR FINISH AS SCHEDULED
09.C 5/8" HIGH-IMPACT GYPSUM BOARD (PAINTED)
09.D EXTERIOR GYPSUM BOARD
09.E GYPSUM BOARD CEILING
09.F 5/8" GYPSUM BOARD (PAINTED)
09.H 5/8" MOISTURE RESISTANT GYPSUM BOARD

DIVISION 26 - ELECTRICAL
26.A LIGHT FIXTURE, SEE ELECTRICAL

GENERAL CONSTRUCTION NOTES

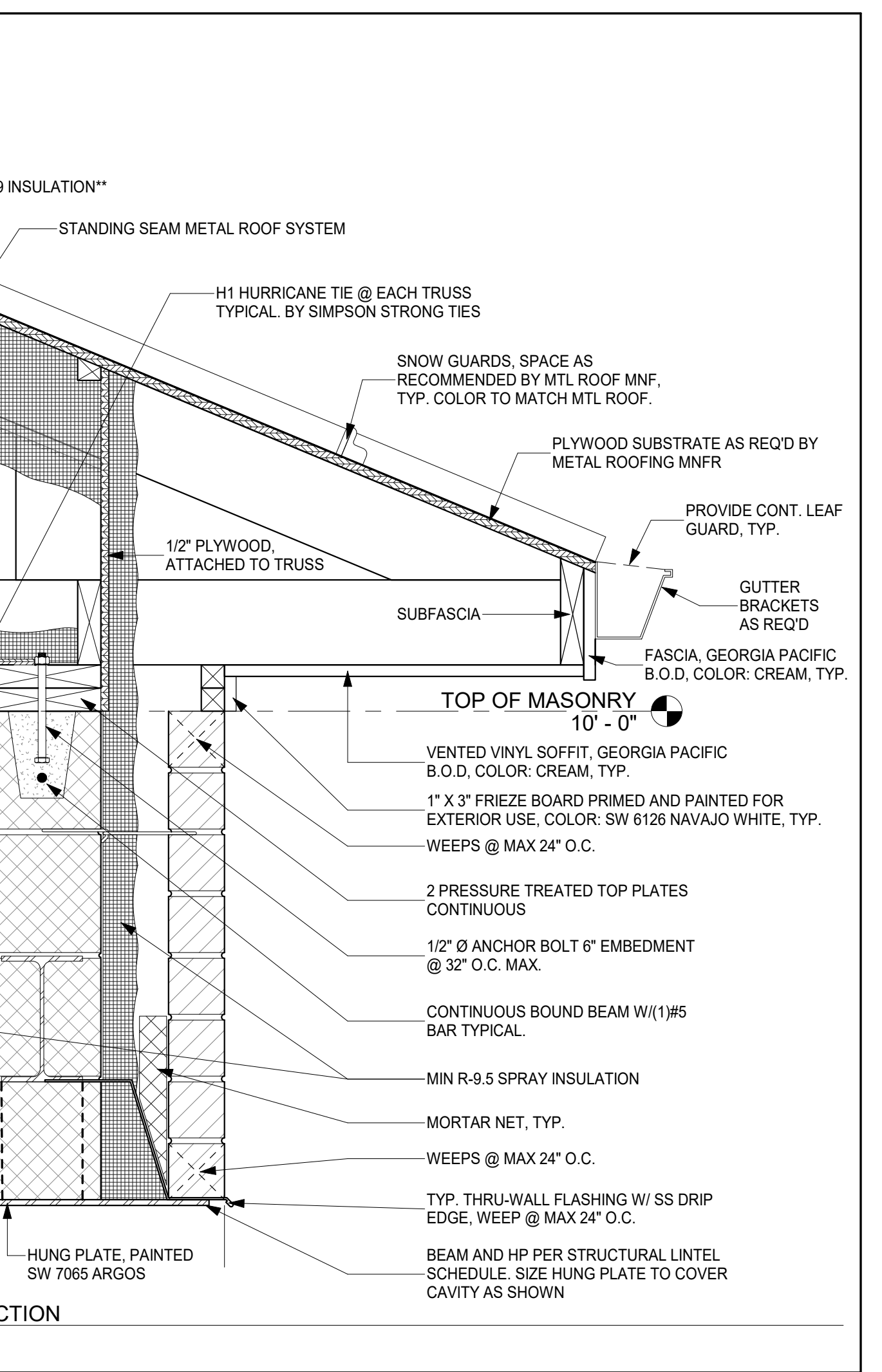
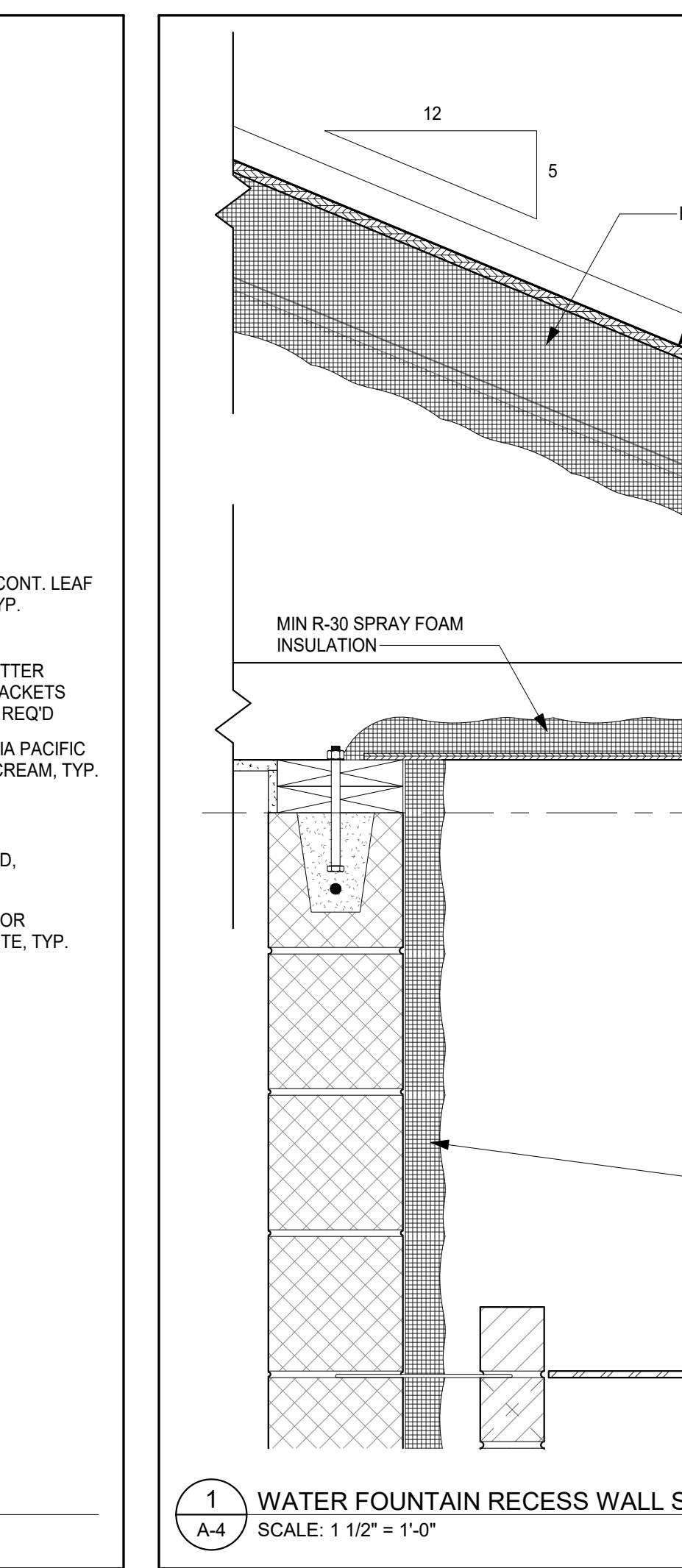
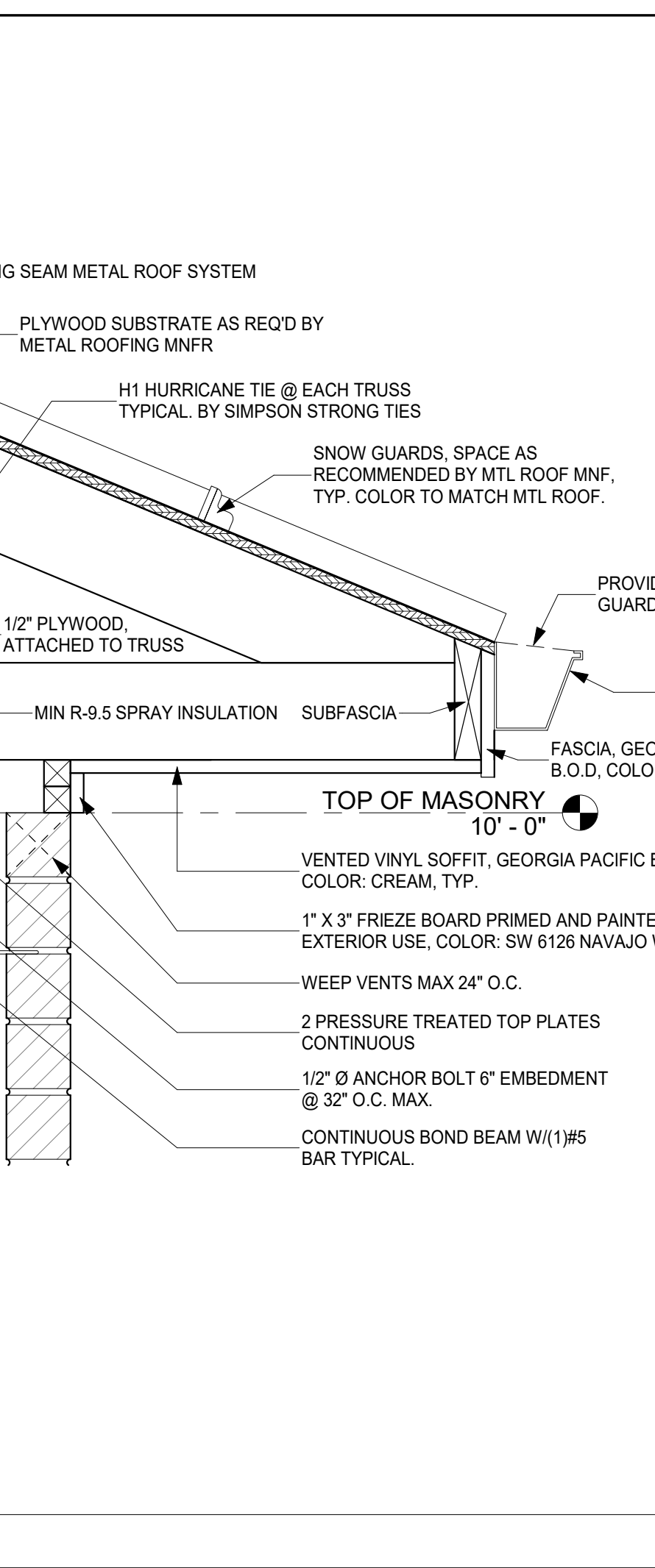
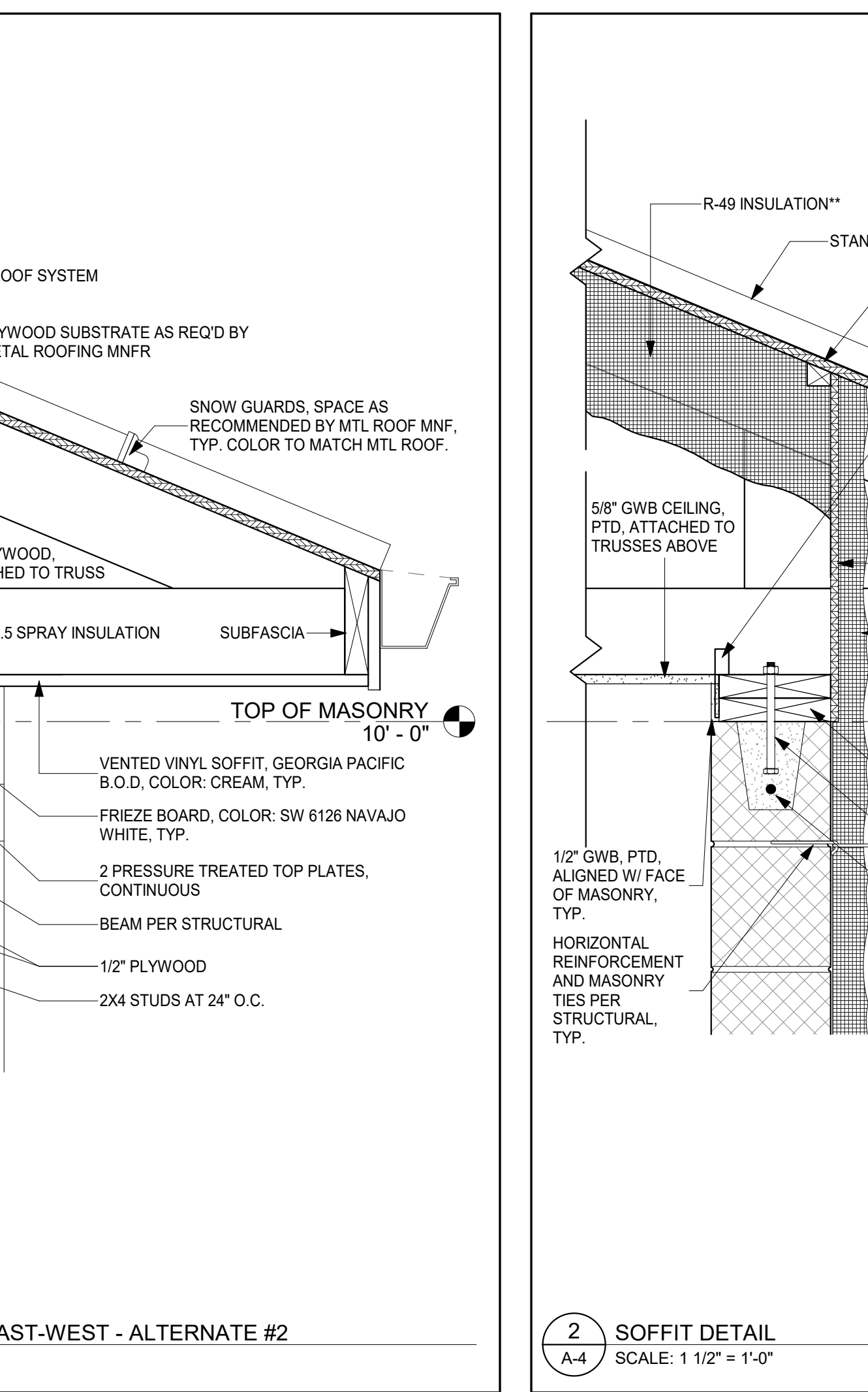
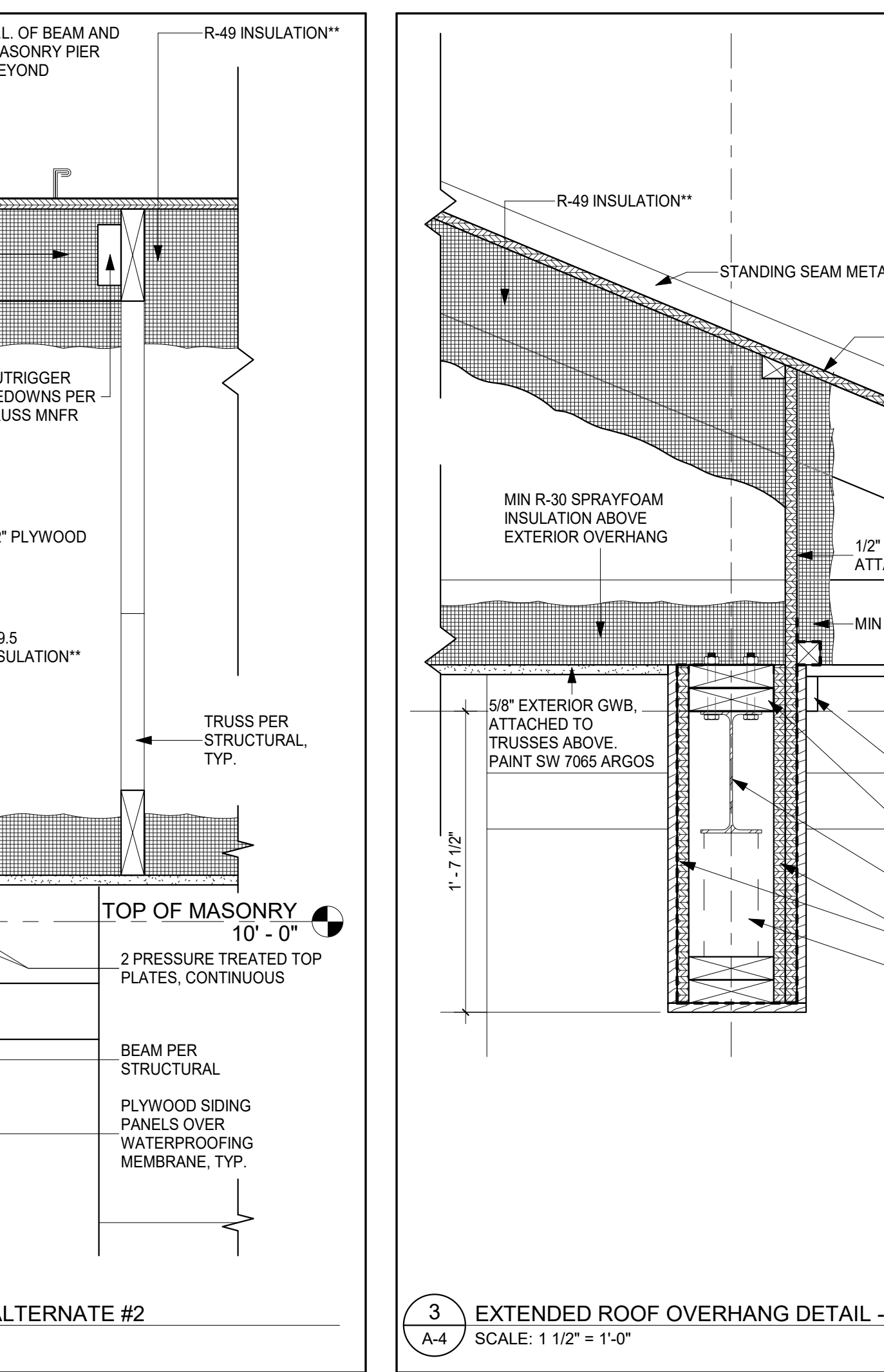
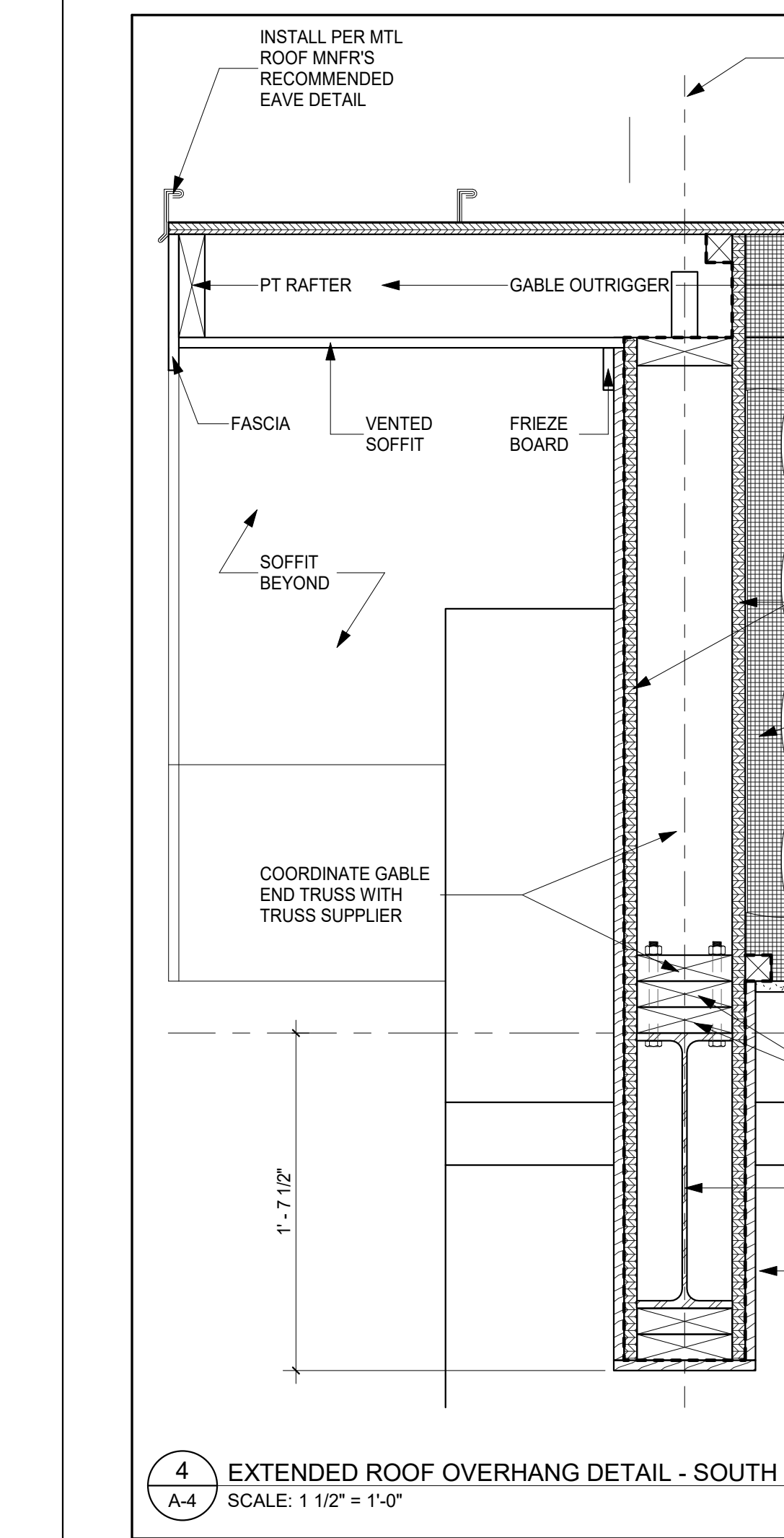
- KEYNOTES AND TEXT NOTES SHOWN ON ANY ONE SECTION OR DETAIL SHALL APPLY TO ALL SIMILAR CONDITIONS IN OTHER SECTIONS AND DETAILS.
- SEE STRUCTURAL DRAWINGS FOR ALL INFORMATION IN RELATION TO BEARING WALLS, FOUNDATIONS, STEEL BEAMS, ALL LINTELS, JOISTS, CONCRETE AND BRACING.
- WHEN STEEL BEAM FLANGES PROTRUDE INTO WALL CAVITY INSTALL CONTINUOUS RUBBERIZED FLASHING AND WEEP HOLES TO THE EXTERIOR AT 16" INTERVALS AT BOTH TOP AND BOTTOM FLANGES FOR ENTIRE LENGTH OF BEAM.
- ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED, TYPICAL.
- SEE EXTERIOR ELEVATION DRAWINGS FOR EXTENT AND TYPE OF MASONRY VENEER AND EXTERIOR MATERIAL.
- ALL FLASHING AND ROOFING METALS SHALL COMPLY WITH SMACNA REQUIREMENTS.
- ALL DIMENSIONS SHOWN ARE TAKEN TO FACE OF MASONRY, U.N.O.
- IN THE DETAILS, THE NOTE "INSULATION" INDICATES CONTRACTOR'S OPTION FOR TYPE OF INSULATION (BLANKET, RIGID, SPRAYFOAM) AS LONG AS INSULATION IS SECURELY ATTACHED, IS INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, AND MEETS OR EXCEEDS THE R-VALUE INDICATED.

4 EXTENDED ROOF OVERHANG DETAIL - SOUTH - ALTERNATE #2
SCALE: 1 1/2" = 1'-0"

3 EXTENDED ROOF OVERHANG DETAIL - EAST-WEST - ALTERNATE #2
SCALE: 1 1/2" = 1'-0"

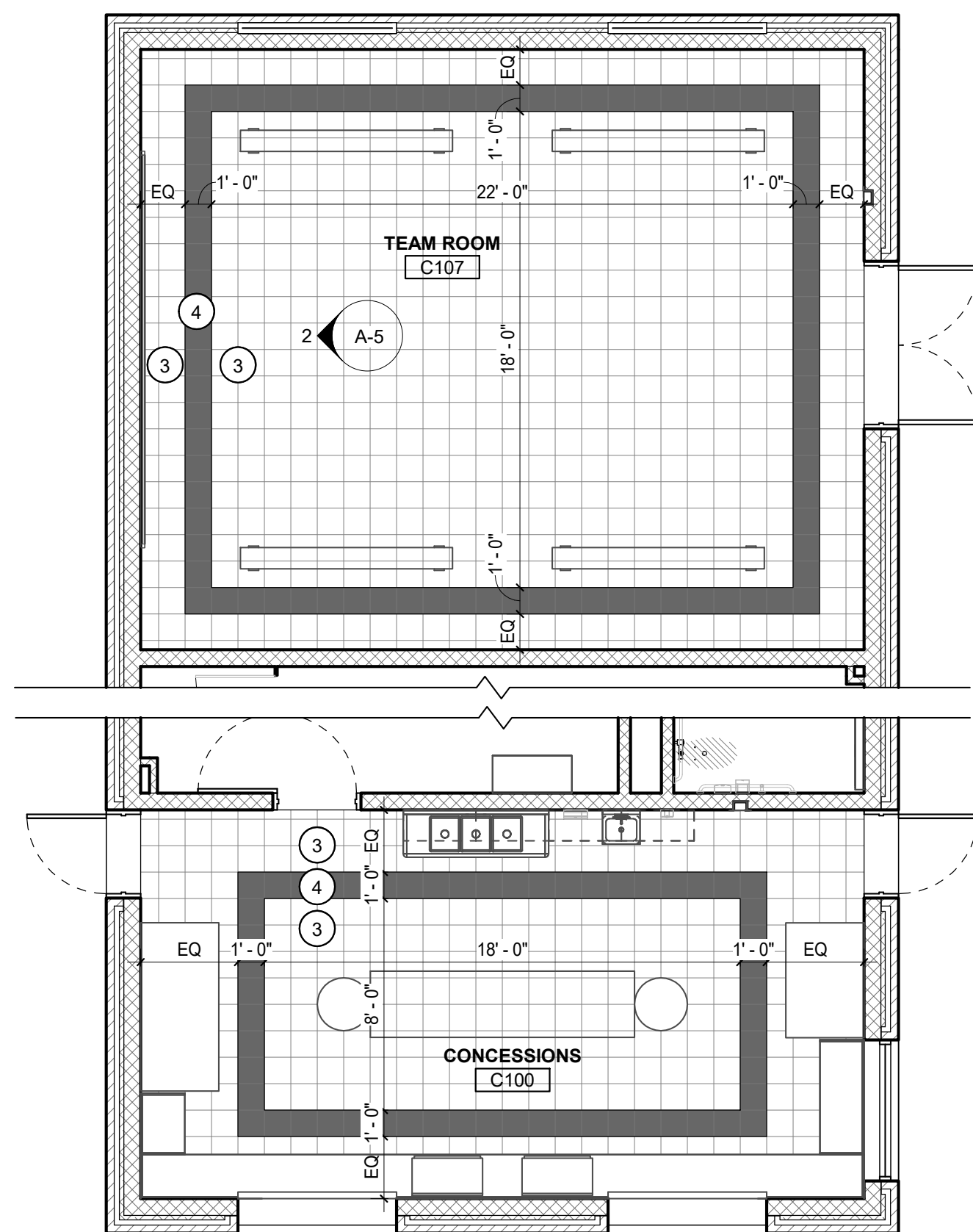
2 SOFFIT DETAIL
SCALE: 1 1/2" = 1'-0"

1 WATER FOUNTAIN RECESS WALL SECTION
SCALE: 1 1/2" = 1'-0"

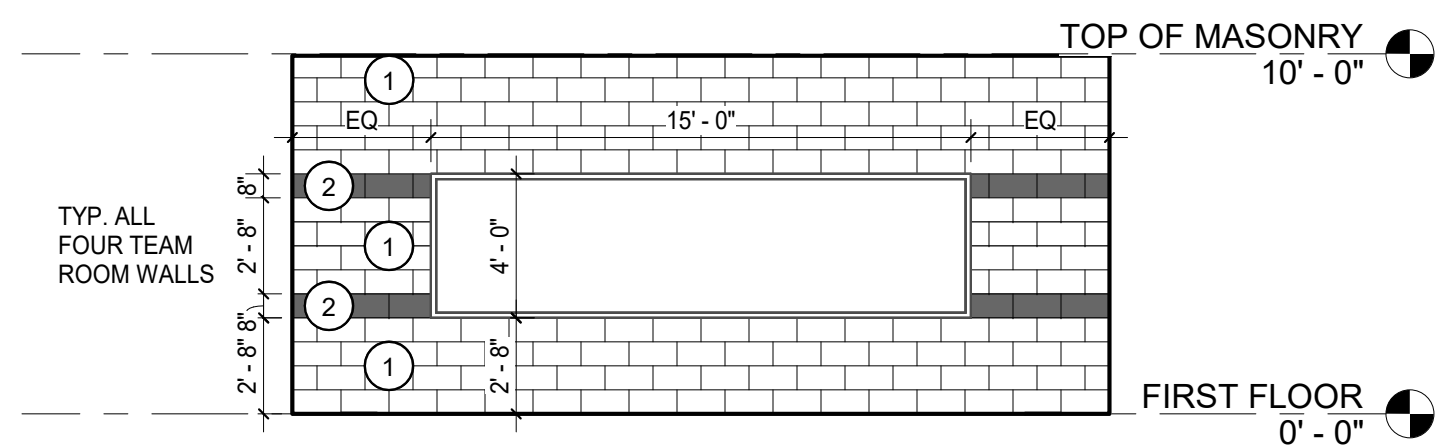


FINISH KEY NOTES:

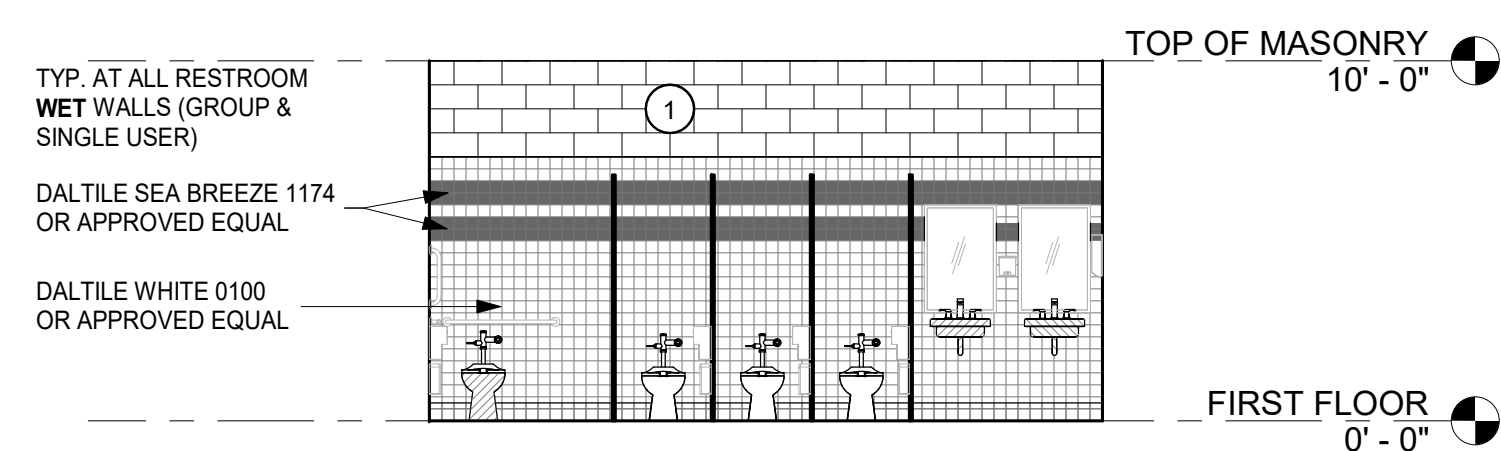
- 1 PAINTED CMU, B.O.D. SW PURE WHITE 7005, TYP.
- 2 PAINTED CMU, B.O.D. SW BLUEBLOOD 6966, TYP.
- 3 VCT, B.O.D. ARMSTRONG FLOORING WHITE OUT 57518, TYP.
- 4 VCT, B.O.D. ARMSTRONG FLOORING BLUE MOON 57535, TYP.



3 FINISH FLOOR PLAN
SCALE: 3/16" = 1'-0"



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



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

FINISH SCHEDULE

ROOM	FLOOR		BASE			WALL			CEILING	COMMENTS
	F1-VCT	F2-CERAMIC TILE	F3-SEALED CONCRETE	B1-RUBBERBASE	B2-CERAMIC TILE	B3-NONE	W1-FRFP PANELS	W2-CERAMIC TILE	W3-CMU/PAINTED	
C100										
C101										
C102										
C104										
C105										
C106										
C107										

FINISH SCHEDULE NOTES:

- 1. ALL INTERIOR CEILINGS ARE TO BE PAINTED GWB ON TREATED WOOD FURRING ATTACHED TO THE UNDERSIDE OF THE ROOF TRUSSES.
- 2. ALL INTERIOR GWB CEILINGS AND CMU WALLS ARE TO BE PAINTED SHERWIN WILLIAMS PURE WHITE 7005, EXCEPT AS NOTED OTHERWISE.
- 3. AT ALL ROOMS SCHEDULED TO RECEIVE NEW CERAMIC WALL TILE, PROVIDE CERAMIC TILE TO MIN 6'-8" AFF (DO NOT CUT TILE) AT WET WALLS ONLY. PAINT WALLS ABOVE CERAMIC TILE.
- 4. WHERE CERAMIC TILE WALL BASE IS SCHEDULED, CT BASE IS TO BE PROVIDED AT ALL WALLS IN THE ROOM (MATCH WALL CERAMIC TILE FIELD COLOR).
- 5. PROVIDE SCHLUTER STRIPS (OR EQUAL) WHERE REQUIRED AT CERAMIC TILE.
- 6. ALL HOLLOW METAL DOORS, WINDOWS, AND FRAMES ARE TO BE PAINTED SW ARGOS 7065.
- 7. ALL FINISHES ARE TO HAVE A CLASS C OR BETTER FLAME SPREAD RATING.

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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland. License No.: 16066, Expiration Date: 1/6/2026.

PROFESSIONAL SEAL:

PRINTS ISSUED

NO.	DESCRIPTION	DATE
1	CD COORDINATION SET	12/06/2023
2	CD 90% SET	12/19/2023
3	BID DOCUMENTS	4/8/2024

LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING

ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:

FINISH SCHEDULE AND FINISH PLAN

PROJECT NO:

23010

DATE:

4/8/2024

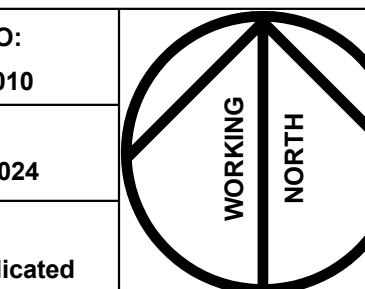
SCALE:

As indicated

DRAWN BY: PN

CHECKED BY: BM

SHEET NO:



A-5

DIVISION 1 – GENERAL REQUIREMENTS

GENERAL CODES AND STANDARDS
 BUILDING CODES: IBC 2018
 RISK CATEGORY: I
 WIND CRITERIA
 V_w = 115 MPH
 V_w = 8 MPH
 EXPOSURE CATEGORY = B
 APPLICABLE INTERNAL PRESSURE COEFFICIENTS = +/- .18
 COMPONENTS AND CLADDING = (EWA + 10 S0FT)
 ZONE 4 + 21.16 PSF (DESIGN WIND PRESSURE – UNFACTORED)
 ZONE 5 + 20.16 PSF (DESIGN WIND PRESSURE – UNFACTORED)
 SEISMIC CRITERIA
 I_e = 1.0
 SITE CLASS = D
 S₁ = 0.12
 S₂ = .042
 S₃ = .129
 S₄ = .067
 R = 2
 C_s = .064
 SEISMIC DESIGN CATEGORY = B
 SEISMIC FORCE RESISTING SYSTEM = ORDINARY REINFORCED MASONRY SHEAR WALL
 ANALYSIS PROCEDURE – EQUIVALENT LATERAL FORCE PROCEDURE
 SNOW LOADS
 P_g = 25 PSF
 I_s = 1.0
 C_t = 1.2
 P_s = 21 PSF
 LIVE LOADS
 ROOF = 25 PSF (MINIMUM + SNOW DRIFT)

LOADS GREATER THAN THE DESIGN LOADS STATED ABOVE SHALL NOT BE PLACED ON THE STRUCTURE DURING OR AFTER CONSTRUCTION.

CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING IN ORDER TO CONSTRUCT THE BUILDING. CONTRACTOR SHALL HAVE ALL TEMPORARY BRACING, SHEETING, SHORING, FORMWORK, UNDERPINNING, ETC. DESIGNED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION. ONE SET OF SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO COMPREHENSIVE STRUCTURAL SOLUTIONS FOR RECORD PURPOSES. COMPREHENSIVE STRUCTURAL SOLUTIONS IS NOT RESPONSIBLE FOR ANY TEMPORARY SHORING.

CONTRACTOR SHALL SUPPORT AND PROTECT ALL ADJACENT UTILITIES, STRUCTURES, EXCAVATIONS, ETC. AS REQUIRED TO INSTALL THE STRUCTURAL ELEMENTS AS CONTAINED WITHIN THIS SET OF DOCUMENTS.

NO MODIFICATION IN SIZE, DIMENSION, POSITION, OR PENETRATION THROUGH ANY STRUCTURAL ELEMENT SHALL BE MADE WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD.

REFER TO OTHER DISCIPLINE DRAWINGS FOR LOCATIONS OF SLAB PENETRATIONS, DIMENSIONS OF CHASES, INSERTS, OPENINGS, SLEEVES, REVEALS, DEPRESSIONS, AND OTHER SUCH ELEMENTS NOT DETAILED ON THE STRUCTURAL DRAWINGS. STRUCTURAL DRAWINGS SHOW BASIC STRUCTURAL CONDITIONS. THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH OTHER DISCIPLINE DRAWINGS CONTAINED IN THIS SET AND MUST BE COORDINATED AS A WHOLE ELEMENT. DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE OBTAINED FROM THE ARCHITECTURAL PLANS. DISCREPANCIES BETWEEN THESE NOTES, THE STRUCTURAL PLANS, THE PROJECT SPECIFICATIONS, AND/OR THE DRAWINGS OF OTHER DISCIPLINES SHALL BE DETERMINED BY THE ARCHITECT/ENGINEER. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK.

CONTRACTOR SHALL REVIEW ALL DISCIPLINE DRAWINGS PRIOR TO BID. MINOR STRUCTURAL ELEMENTS SUCH AS MISCELLANEOUS ANGLES, LINTELS, AND OR PLATES MAY BE IDENTIFIED ON THE ARCHITECTURAL DRAWINGS, BUT NOT SPECIFICALLY DETAILED ON THE STRUCTURAL SET. ALL MISCELLANEOUS STRUCTURAL ELEMENTS IDENTIFIED ON ARCHITECTURAL AND MEP DRAWINGS MUST BE INCLUDED IN THE CONTRACTOR'S BID.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN IN THE CONTRACT DOCUMENTS. IF THE STRUCTURAL DRAWINGS ARE REPLICATED FOR SHOP DRAWING USE BY THE CONTRACTOR, THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL INFORMATION SHOWN ON THE SHOP DRAWING. ANY DEVIATIONS FROM THE CONTRACT AS DETAILED ON THE SHOP DRAWINGS SHALL BE HIGHLIGHTED BY THE CONTRACTOR FOR REVIEW BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL ALLOW A MINIMUM OF 10 WORKING DAYS FOR SHOP DRAWING REVIEW.

ALL WORK SHALL BE INSPECTED IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE – SPECIAL INSPECTIONS. ALL INSPECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION, HIRED BY THE CONTRACTOR ON BEHALF OF THE OWNER. ALL INSPECTIONS SHALL BE IN COMPLIANCE WITH LOCAL CODE AMENDMENTS. SPECIAL INSPECTOR SHALL COORDINATE ALL REQUIREMENTS. COMPREHENSIVE STRUCTURAL SOLUTIONS WILL NOT PERFORM CODE REQUIRED INSPECTIONS.

DIVISION 2 – SITE WORK

FOOTINGS ARE DESIGNED FOR AN ASSUMED BEARING CAPACITY OF 2000 PSF AND SHALL BEAR ON NATURAL UNDISTURBED SOIL OR FILL ENGINEERED FILL. FOOTINGS SHALL BE LOCATED AT A MINIMUM OF 2 FEET BELOW EXTERIOR GRADE ELEVATION FOR FROST PROTECTION. SOIL BEARING PRESSURE MUST BE VERIFIED BY A QUALIFIED INSPECTOR. IF FIELD CONDITIONS VARY FROM CONDITIONS NOTED HEREIN, A GEOTECHNICAL ENGINEER MUST BE ENGAGED. IF BEARING CAPACITY IS LESS THAN NOTED ABOVE, THE FOUNDATIONS SHALL BE REDESIGNED.

CONTRACTOR MUST PROVIDE FROST PROTECTION FOR ALL FOOTINGS AND SUBGRADES DURING CONSTRUCTION. NO FOOTINGS SHALL BE CAST ON FROZEN MATERIAL.

ALL FILL UNDER SLABS ON GRADE MUST BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. ALL SLABS SHALL HAVE CONTRACTION JOINTS AS LOCATED PER THE PLANS AND TYPICAL DETAILS, BUT IN NO CASE SHALL BE GREATER THAN 15' ON CENTER SPACING.

DIVISION 3 – CONCRETE

ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE UNLESS OTHERWISE SPECIFIED.
 FOR ALL CONCRETE NOT EXPOSED TO WEATHER: F_c = 3000 PSI MINIMUM AT 28 DAYS UNLESS NOTED OTHERWISE.

FOR ALL CONCRETE EXPOSED TO WEATHER: F_c = 4000 PSI MINIMUM AIR-ENTRAINED CONCRETE AT 28 DAYS UNLESS NOTED OTHERWISE. EXPOSED CONCRETE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.45

THE CONTRACTOR MUST SUBMIT A CONCRETE MIX DESIGN IN ACCORDANCE WITH ACI-318 (LATEST LOCAL APPROVED EDITION). THE ADDITION OF WATER AT THE PLANT OR IN THE FIELD GREATER THAN 1% IS STRICTLY PROHIBITED.

WELDED WIRE FABRIC SHALL BE SUPPORTED BY CHAIRS AND SHALL HAVE ENDS LAPPED AND WIRE TIED ONE FULL MESH AND SHALL EXTEND INTO SUPPORTING WALLS AND/OR BEAMS EXCEPT AT SLAB ON GRADE CONDITIONS.

REINFORCING STEEL, INCLUDING TIES AND STIRRUPS, SHALL BE DEFORMED HIGH STRENGTH BILLET STEEL AND SHALL CONFORM TO ASTM A615 (LATEST LOCAL APPROVED EDITION) GRADE 60. ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND CONSTRUCTED IN ACCORDANCE WITH THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES (ACI-318, LATEST LOCAL APPROVED EDITION).

ALL REINFORCING BARS SHALL BE SUPPORTED BY CHAIRS. REBAR STAKES ARE NOT PERMITTED. WET STICKING OF REBAR DOWELS IS NOT PERMITTED.

ALL REINFORCING SPLICES SHALL BE CLASS "B" SPLICES IN ACCORDANCE WITH ACI-318 (LATEST LOCAL APPROVED EDITION) UNLESS OTHERWISE NOTED. UNLESS NOTED OTHERWISE, HORIZONTAL WALL REINFORCING SHALL BE BENT AROUND CORNERS AND EXTEND 1'-0" MINIMUM INTO ADJACENT CONSTRUCTION. PROVIDE 4'-0" LONG CORNER BARS TO MATCH HORIZONTAL REINFORCING.

UNLESS OTHERWISE SPECIFIED, PROVIDE THE FOLLOWING MINIMUM CONCRETE PROTECTION:
 CAST AGAINST EARTH 3"
 #5 AND SMALLER BARS 1 1/2"
 #6 AND LARGER BARS 2"
 NOT EXPOSED TO EARTH OR WEATHER
 SLABS, WALLS, JOISTS 1/2"
 BEAMS, GIRDERS, COLUMNS 1 1/2" TO TIES, STIRRUPS, OR SPIRALS

ALL FORMWORK SHALL BE IN ACCORDANCE WITH THE ACI "FORMWORK FOR CONCRETE" (SPECIAL PUBLICATION #4) AND ACI "STANDARD RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" (ACI-347, LATEST LOCAL APPROVED EDITION).

ALL CAST IN PLACE CONCRETE SLABS AND WALLS SHALL HAVE CONTROL JOINTS PER THE TYPICAL DETAILS.

ALL CONCRETE WORK SHALL CONFORM TO THE LATEST CODE APPROVED EDITIONS OF THE ACI AND ASTM SPECIFICATIONS.

DIVISION 4 – MASONRY

ALL CONCRETE MASONRY SHALL CONFORM TO THE LATEST EDITION OF ASTM C90 AND C145 SPECIFICATIONS. ALL MORTAR SHALL CONFORM TO ASTM C270 AND SHALL BE TYPE "M" BELOW GRADE AND TYPE "S" ABOVE GRADE MINIMUM.

ALL GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C78 WITH A MINIMUM GROUT STRENGTH OF 2500 PSI. CONTRACTOR SHALL SUBMIT A MIX DESIGN IN ACCORDANCE WITH ASTM C1019.

ALL MASONRY BELOW GRADE SHALL BE GROUTED 100% SOLID UNLESS NOTED OTHERWISE. WET STICKING OF VERTICAL REINFORCING INTO GROUTED CELLS FOR LAPS IS NOT ACCEPTABLE. PROVIDE CONTACT LAP SPLICES THROUGH ALL COMPOSITE CONSTRUCTION. USE VIBRATORS TO CONSOLIDATE GROUT IN MASONRY WALLS, RODDING IS NOT ACCEPTABLE. UTILIZE REBAR POSITIONERS TYPICAL TO ENSURE PROPER REBAR PLACEMENT.

ALL INTERIOR NON-STRUCTURAL MASONRY PARTITION WALLS SHALL BE ON THICKENED SLABS AS SHOWN ON T3300.06. ALL INTERIOR NON-STRUCTURAL MASONRY PARTITION WALLS SHALL BRACE PER THE TYPICAL DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL PARTITION WALLS.

ALL CONCRETE MASONRY UNITS SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH ASTM C140. ALL MORTAR FOR CONCRETE MASONRY CONSTRUCTION SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH ASTM C91. ALL LOAD BEARING MASONRY ASSEMBLIES SHALL BE PRISM TESTED IN ACCORDANCE WITH ASTM C1314.

ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530, LATEST LOCAL APPROVED EDITION).

CALCIUM CHLORIDE SHALL NOT BE USED AS AN ADMIXTURE.

ALL MASONRY CONSTRUCTION SHALL BE CONSTRUCTED WITH HORIZONTAL JOINT REINFORCING AT 16" O.C. MINIMUM UNLESS NOTED OTHERWISE – SEE TYPICAL MASONRY WALL CONSTRUCTION DETAILS.

HOLLOW MASONRY UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL FACE SHELLS. WEBS SHALL BE BEDDED IN ALL CONNECTIONS FOR PIERS, COLUMNS, AND PILASTERS, AND THE STARTING COURSE ON FOOTINGS AND SOLID FOUNDATION WALLS.

THE MINIMUM REQUIRED COMPRESSIVE STRENGTH FOR ALL MASONRY CONSTRUCTION SHALL BE 2000 PSI AT 28 DAYS. A MASONRY LOAD BEARING STRUCTURE MUST NOT BE LOADED UNTIL ITS DESIGN STRENGTH IS ACHIEVED (F_m AT 28 DAYS).

ALL MASONRY WALLS SHALL BE TEMPORARILY BRACED DURING CONSTRUCTION. BRACING SHALL BE BASED UPON THE COUNCIL FOR MASONRY WALL BRACING – STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION OR ANOTHER EQUIVALENT INDUSTRY RECOGNIZED STANDARD. BRACING DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION. ONE COPY OF THE SIGNED AND SEALED DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE PROJECT ARCHITECT FOR RECORD PURPOSES.

LINTEL SCHEDULE:

LINTELS OVER OPENINGS IN MASONRY WALLS NOT OTHERWISE SPECIFIED SHALL BE LOOSE ANGLE LINTELS AS FOLLOWS EXTERIOR:

0'-0" – 3'-0"	(2) 6" X 4" X 3/8" ANGLE (LLV) + 5" X 5" X 3/8" BRICK SHELF ANGLE
3'-1" – 5'-0"	(2) 6" X 4" X 3/8" ANGLE (LLV) + 5" X 5" X 3/8" BRICK SHELF ANGLE
5'-1" – 6'-0"	(2) 6" X 4" X 3/8" ANGLE (LLV) + 5" X 5" X 3/8" BRICK SHELF ANGLE
6'-0" – 8'-0"	W8X18 + HUNG PLATE W/ 7"X7"X3/8" BEARING PLATE EACH END

MINIMUM LINTEL END BEARING = 6"
 FOR INTERIOR NON LOAD BEARING WALLS, REINFORCED CMU LINTELS MAY BE UTILIZED UP TO 8' SPANS IN LIEU OF STEEL ANGLE LINTELS

DIVISION 5 – STRUCTURAL STEEL

ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
 W-SHAPES ASTM A992
 ANGLES, CHANNELS, PLATES ASTM A36
 TUBES (COLD-FORMED) ASTM A500 GRADE B
 PIPES (HOT FORMED) ASTM A53 GRADE B
 ANCHOR BOLTS ASTM F1554 GR. 55

SUBMIT MILL TEST REPORTS TO THE ARCHITECT AND ENGINEER FOR RECORD PURPOSES.

ALL STEEL SHALL BE DETAILED, FABRICATED, AND ERRECTED IN ACCORDANCE WITH THE AISC SPECIFICATION AND AISC CODE OF STANDARD PRACTICE.

ALL STEEL SHALL BE FABRICATED WITH NATURAL GAMBER UP.

ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 (LATEST LOCAL APPROVED EDITION) STRUCTURAL WELDING CODE – STEEL. WELDING SHALL BE MADE BY A QUALIFIED WELDER AND CONFORM TO ALL AWS QAOQC INSPECTION REQUIREMENTS.

BEAM AND GIRDER CONNECTIONS SHALL BE DETAILED TO DEVELOP THE REACTIONS INDICATED ON PLAN. WHERE REACTIONS ARE NOT SHOWN, THE END REACTION SHALL EQUAL 50% OF THE TOTAL UNIFORM LOAD SUPPORTED BY THE BEAM AS TABULATED IN THE APPLICABLE EDITION OF THE STEEL CONSTRUCTION MANUAL FOR NON-COMPOSITE CONSTRUCTION. HIGH STRENGTH STEEL BOLTS SHALL CONFORM TO ASTM A-325. IN GENERAL, ALL FIELD CONNECTIONS SHALL BE 1/2" DIAMETER A-325 HIGH TENSILE BOLTS AND WASHERS MINIMUM UNLESS OTHERWISE NOTED. BOLTS SHALL BE SNUG TIGHT UNLESS NOTED OTHERWISE.

ALL CONNECTIONS DETAILED BY THE FABRICATOR SHALL MEET THE FOLLOWING REQUIREMENTS:
 1. CONNECTIONS SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH PART 10 OF THE AISC MANUAL – 15TH EDITION.
 2. WHERE BEARING TYPE CONNECTIONS ARE SPECIFIED, SHEAR VALUES FOR THREADS INCLUDED IN THE SHEAR PLANE SHALL BE USED. EXCEPT AS FOLLOWS: SPECIAL CONNECTIONS FOR REACTIONS EXCEEDING 45 KIPS MAY BE DESIGNED AND DETAILED USING LARGE DIAMETER BOLTS AND / OR BOLT STRENGTHS FOR THREADS EXCLUDED FROM THE SHEAR PLANE.
 3. CONNECTIONS OTHER THAN THOSE SPECIFIED ABOVE MAY BE UTILIZED ONLY IF COMPLETE COMPUTATIONS, SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION, ARE SUBMITTED TO THE ENGINEER OF RECORD (FOR RECORD PURPOSES ONLY).
 4. BOLTS IN MOMENT RESISTING CONNECTIONS SHALL BE SLIP CRITICAL TYPE.
 5. BEAMS FRAMING INTO THE WEAK AXIS OF A COLUMN SHALL FRAME DIRECTLY TO THE COLUMN WEB WHERE EVER POSSIBLE.

ALL STRUCTURAL STEEL SHALL BE PAINTED WITH A RUST-INHIBITIVE PRIMER (RED OXIDE). IT IS ONLY NECESSARY TO MASK OUT AREAS FOR WELDING FOR FRICTION-TYPE CONNECTIONS. ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED TO INCLUDE ALL LINTELS (INCLUDING PLATES, PLATE HANGERS, AND HUNG PLATES) IN EXTERIOR WALLS.

DIVISION 6 – WOOD

WOOD TRUSS NOTES:
 A. PREENGINEERED WOOD TRUSSES SHALL BE DESIGNED, FABRICATED AND ERRECTED IN ACCORDANCE WITH THE DESIGN SPECIFICATION FOR LIGHT METAL PLATE CONNECTOR WOOD TRUSSES TPI 1 (LATEST EDITION) AND BUILDING COMPONENT SAFETY INFORMATION (BCSI) AS PUBLISHED BY TPI AND SBCA AND IN ACCORDANCE WITH THE APPLICABLE EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. PROVIDE BRACING AS INDICATED ON THE DRAWINGS, BUT IN NO CASE SHALL THE ANCHORAGE FOR EACH TRUSS BE LESS THAN ONE SIMPSON 52 ST TIE. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL OVER BUILT ROOF FRAMING IS TO BE PREENGINEERED WOOD TRUSSES.

B. PREENGINEERED WOOD TRUSSES ARE TO BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE LOCAL JURISDICTION. SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW. FOR SPECIFIC LOADS AND LOADING CONDITIONS, SEE THE PLANS AND DIVISION 1 NOTES. THE DESIGN OF WOOD TRUSSES SHALL MEET OR EXCEED THE MINIMUM GRAVITY LOADS SET FORTH IN THESE DOCUMENTS (INCLUDING UNBALANCED SNOW LOADS) AND THE MINIMUM WIND LOAD PER THE APPROPRIATE BUILDING CODE OR REFERENCED STANDARD.

C. ALL MEMBERS AND CONNECTIONS AND ATTACHMENTS MUST BE DESIGNED FOR THE APPROPRIATE DEAD, LIVE, AND WIND LOADS AND FOR ALL COMBINATIONS SPECIFIED IN THE IBC CODE (INCLUDING WIND UPLIFT).

D. PREENGINEERED WOOD TRUSS MANUFACTURER MUST PROVIDE THE NECESSARY PERMANENT LATERAL BRIDGING/BRACING BETWEEN THE TRUSSES AND TO ADJACENT STRUCTURAL ELEMENTS THAT IS REQUIRED FOR INDIVIDUAL TRUSS MEMBERS BASED ON THE DESIGN OF THE INDIVIDUAL TRUSS MEMBERS AND TO INSURE TRUSS STABILITY. MINIMALLY, PROVIDE A 2X4 (SP#) AT EACH REQUIRED LATERAL RESTRAINT POINT INDICATED ON THE TRUSS COMPONENT DRAWINGS, REFERENCE BCSI FOR TYPICAL BRACING LAYOUT AND INSTALLATION PROCEDURES. COMPREHENSIVE STRUCTURAL SOLUTIONS HAS INDICATED THE STRUCTURAL ELEMENTS OF THE OVERALL BUILDING LATERAL LOAD RESISTING SYSTEM AND GRAVITY LOAD SYSTEM AND THE PERMANENT ATTACHMENT OF THESE ELEMENTS TO ONE ANOTHER. CONTRACTOR MUST PROVIDE THE NECESSARY TEMPORARY BRACING TO ASSURE TRUSS STABILITY DURING CONSTRUCTION AND UNTIL ALL PERMANENT BRIDGING/BRACING OF THE TRUSS MANUFACTURER IS IN PLACE AND UNTIL ALL OTHER PERMANENT STRUCTURAL ELEMENTS AND ATTACHMENTS ARE IN PLACE. NOTE THAT ADEQUATE BEARING FOR TRUSSES IS PART OF THE TRUSS MANUFACTURER'S DESIGN.

E. ANY HORIZONTAL DEFLECTIONS OF THE ROOF TRUSSES DUE TO THE TRUSS CONFIGURATION (I.E. SLOPED BOTTOM CHORD) SHALL BE ACCOUNTED FOR IN THE TRUSS CONNECTION DETAILS AND SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

F. ALLOWANCE SHALL BE MADE BY THE CONTRACTOR FOR POTENTIAL UPLIFT OF ROOF TRUSS BOTTOM CHORDS THAT MIGHT BE CAUSED BY DISTORTION OF THE TRUSS MEMBERS DUE TO VARIATIONS IN THE MOISTURE CONTENT OF THE TRUSS MEMBERS.

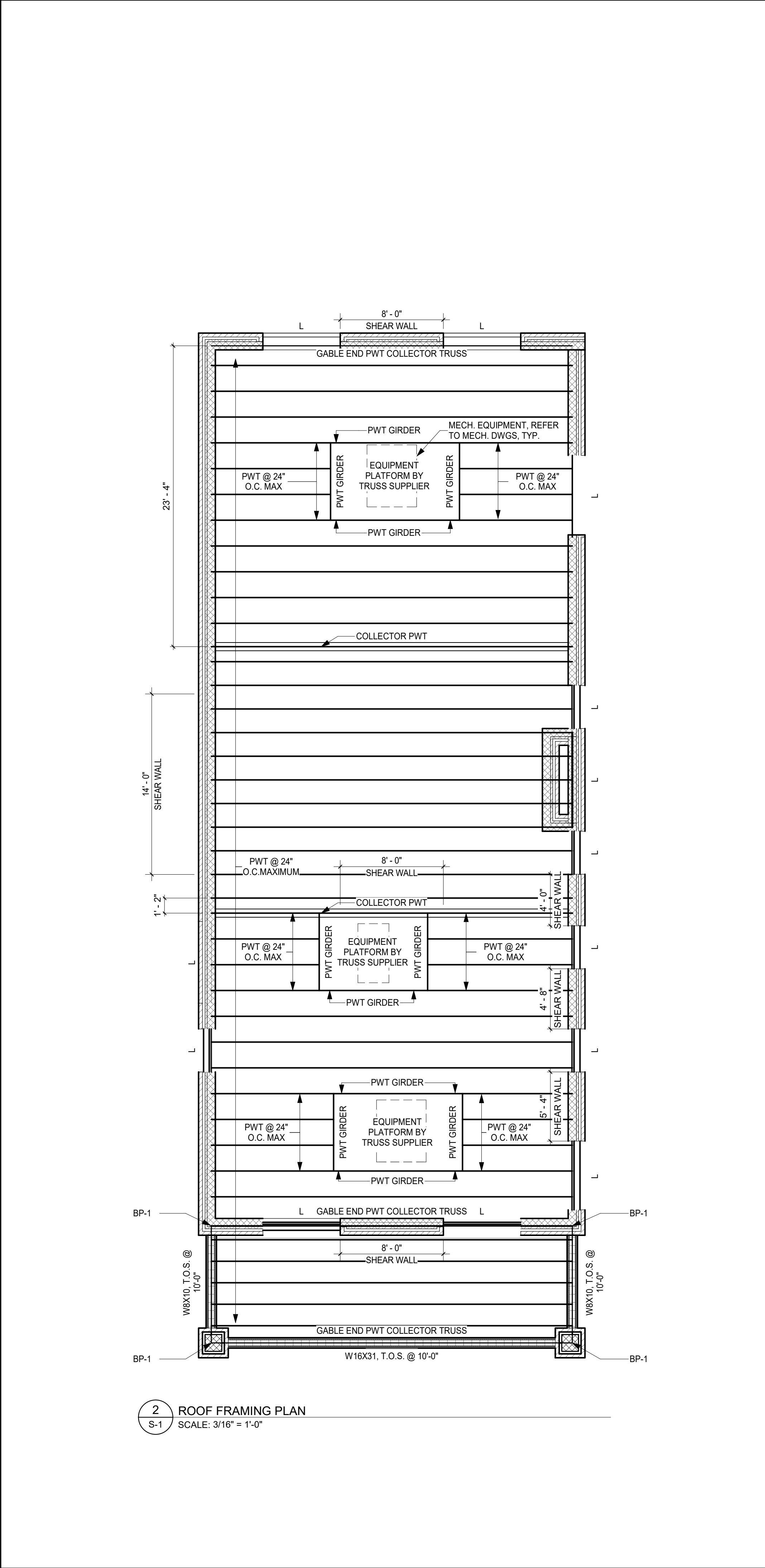
G. ALL LUMBER FOR USE IN THE TRUSSES SHALL BE #2 SOUTHERN PINE (19 PERCENT MAXIMUM MOISTURE CONTENT IN USE) OR BETTER.

H. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS COMPLETE WITH SIGNED AND SEALED ERECTION PLANS AND CALCULATIONS. SHOP DRAWINGS SHALL INDICATE THE SIZE AND CAPACITY OF ALL CONNECTOR PLATES. SHOP DRAWINGS ALSO INDICATE THE WOOD GRADE, MEMBER SIZES AND WEB CONFIGURATION OF ALL TRUSSES. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE LOCAL JURISDICTION.

I. COORDINATE LOCATIONS, SIZES, AND WEIGHTS OF MECHANICAL EQUIPMENT WITH THE MECHANICAL DRAWINGS AND THE MECHANICAL SUBCONTRACTOR. TRUSSES SHALL BE DESIGNED TO ACCOMMODATE THE WEIGHT OF ALL MECHANICAL EQUIPMENT.

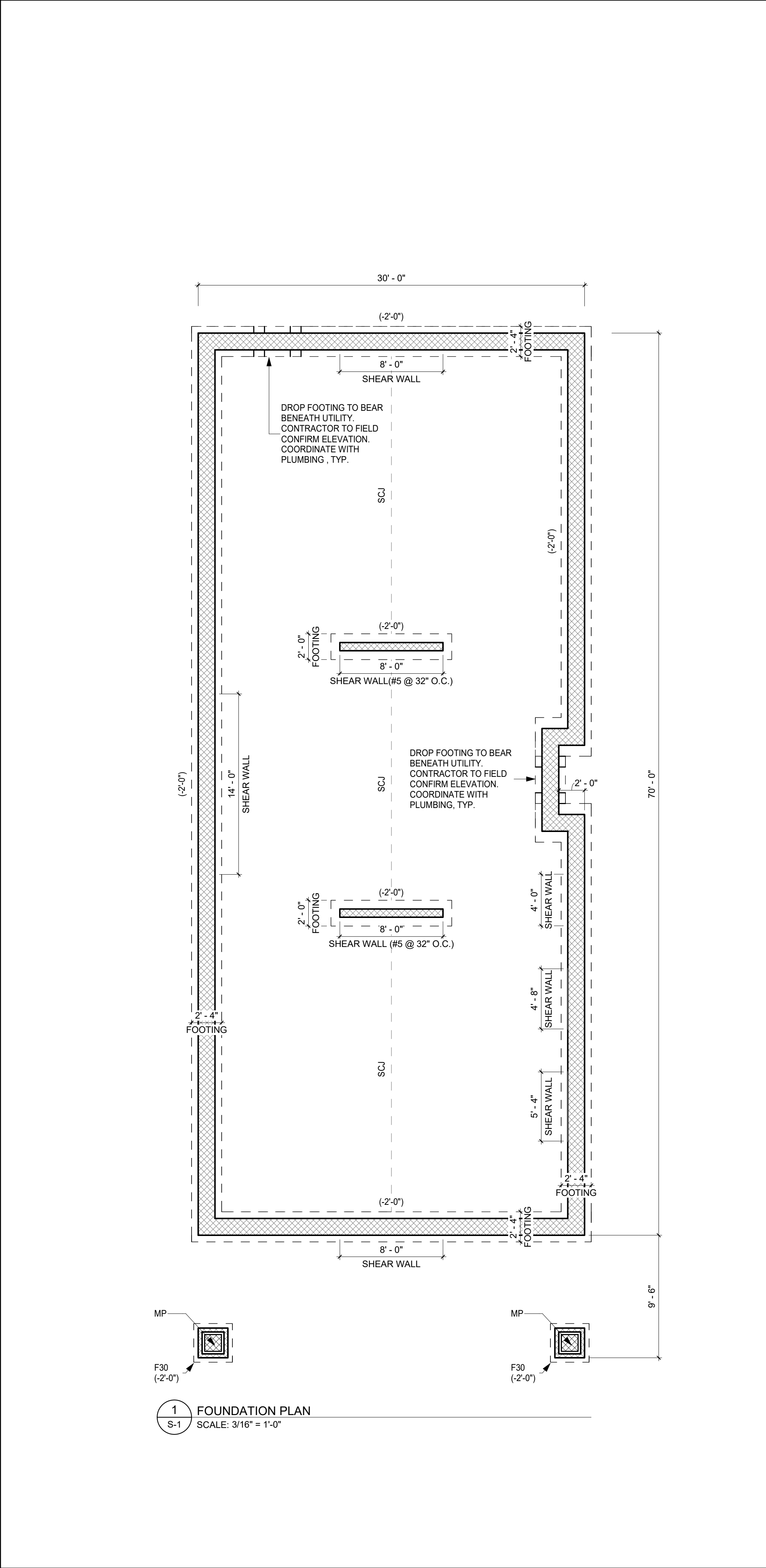
ROOF NOTES:

- SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPES AND FINISH MATERIAL OVER PLYWOOD. PLYWOOD SHALL BE 5/8" THICK, APA RATED EXTERIOR GRADE, 32/16 SPAN RATING.
 - PWT DENOTES PRE-ENGINEERED WOOD TRUSSES BY THE WOOD TRUSS FABRICATOR. SEE DIVISION 6 NOTES FOR ADDITIONAL WOOD TRUSS NOTES. ALL WOOD TRUSS SHOP DRAWINGS AND CALCULATIONS ARE TO BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION AND DESIGNED FOR THE FOLLOWING MINIMUM LOADS. PRE-ENGINEERED WOOD TRUSS DESIGN SHALL TAKE INTO ACCOUNT ALL UNIFORM AND CONCENTRATED LOADS FROM OTHER FRAMING OR EQUIPMENT SUPPORTED BY THE TRUSSES.
 **CONTRACTOR SHALL COORDINATE ALL DESIRED TRUSS PROFILES, SLOPED BOTTOM CHORD, ATTIC ACCESS ETC WITH ARCHITECTURAL DRAWINGS AND TRUSS SUPPLIER.
 **CONTRACTOR SHALL COORDINATE ALL TRUSS PROFILES WITH MECHANICAL DUCTWORK AND EQUIPMENT.
- TOP CHORD
 LIVE LOAD 25 PSF + DRIFTING PER LOCAL CODE REQUIREMENTS
 DEAD LOAD 10 PSF
- BOTTOM CHORD
 LIVE LOAD ATTIC WITH STORAGE 20 PSF
 ATTIC WITHOUT STORAGE 10 PSF
 DEAD LOAD 10 PSF
- ALL NECESSARY FRAMING FOR INFILLS TO CREATE VALLIES, HIPS, GABLES, ETC. IS TO BE SUPPLIED ALONG WITH ROOF TRUSSES BY ONE SOURCE. GABLES SHALL BE BUILT ON TOP OF TYPICAL TRUSSES TO ENSURE A UNIFORM LOAD ON THE EXISTING STRUCTURE. ANY CONVENTIONAL FRAMING REQUIRED FOR INFILLS SHALL HAVE COMPUTATIONS SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION.
4. BP-1 DENOTES 7' X 7' X 3/8" BEARING PLATE W/ (2) #3 BARS (12" + 2" HOOK) WELDED TO THE UNDERSIDE OF THE PLATE.



FOUNDATION NOTES:

- SLAB ON GRADE SHALL BE 5" NORMAL WEIGHT CONCRETE (F_c = 3000 PSI, 145 PCF) WITH @6"X6"-W2.XXW2.G WELDED WIRE FABRIC OVER VAPOR BARRIER OVER 6" OF COMPACTED WASHED GRAVEL.
- TOP OF SLAB ELEVATION + 0' - 0" UNLESS NOTED OTHERWISE.
- (-0'-0") DENOTES TOP OF FOOTING ELEVATION MEASURED FROM TOP OF SLAB ON GRADE ELEVATION. FOOTING ELEVATIONS ARE FOR BIDDING PURPOSES ONLY AND MAY HAVE TO BE ADJUSTED BASED ON FIELD CONDITIONS ENCOUNTERED DURING EXCAVATION.
- ALL FOOTINGS SHALL BE LOWERED TO BEAR BELOW ANY UTILITIES. SEE TYPICAL DETAIL. CONTRACTOR FIELD LOCATE ALL FINAL UTILITY LOCATIONS AND COORDINATE INVERT ELEVATIONS WITH FOOTINGS. ADD ADDITIONAL FOOTING STEPS AS NEEDED AT ALL UTILITIES.
- ALL SUBGRADE PREPARATION FOR THE SLAB ON GRADE, FOOTINGS, INSTALLATION OF CONTROLLED FILL, ETC SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- REFER TO THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, CIVIL DRAWINGS FOR BELOW GRADE UTILITIES, BELOW GRADE CONDUITS, SLAB DEPRESSIONS, SLAB SLOPES, ETC.
- SCJ DENOTES SLAB CONTRACTION JOINT. SEE TYPICAL DETAIL.
- ALL EXTERIOR MASONRY WALLS SHALL BE REINFORCED WITH #5 BARS AT 32" ON CENTER LOCATED IN THE CENTER OF THE CMU BACKUP UNLESS NOTED OTHERWISE. GROUT CELLS CONTAINING BARS 100% SOLID WITH F_G = 2500 PSI GROUT. REFER TO THE REINFORCED MASONRY TYPICAL DETAILS AND SECTIONS. PROVIDE THE FOLLOWING FULL HEIGHT REINFORCED MASONRY PIERS AT EACH SIDE OF EACH OPENING IN THE EXTERIOR WALLS.
 WALL TYPE PIER
 4" BRICK+ CAVITY+ 6" BLOCK 8"X16" WITH 1-#5 BARS EACH FACE
 9. MP DENOTES 16" X 16" MASONRY PIER W/ (1) #5 BAR W/ EACH CELL AND #3 TIES @ 8" O.C. GROUT PIER 100% SOLID W/ F_G = 2500 PSI GROUT
- F30 DENOTES 3'-0" X 3'-0" X 12" FOOTING W/ (4) #4 BARS
- L DENOTES LINTEL - SEE SCHEDULE



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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland, License No.: 16066, Expiration Date: 1/6/2026.

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NO.	DESCRIPTION:	DATE:
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3	BID DOCUMENTS	4/8/2024

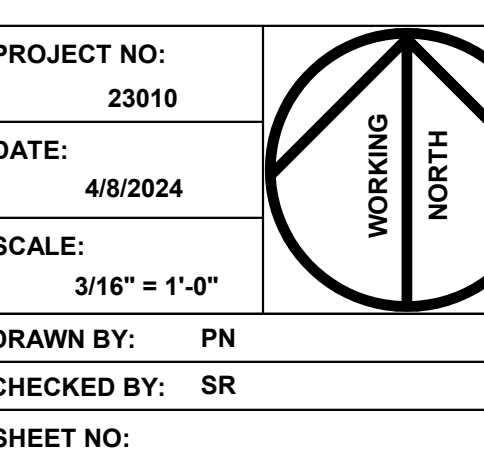
PRINTS ISSUED

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2	CD 90% SET	12/19/2023
3	BID DOCUMENTS	4/8/2024

LEONARDTOWN HIGH SCHOOL CONNECTIONS BUILDING
ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:
FOUNDATION AND ROOF FRAMING PLANS

PROJECT NO: 23010
DATE: 4/8/2024
SCALE: 3/16" = 1'-0"
DRAWN BY: PN
CHECKED BY: SR
SHEET NO:



S-1

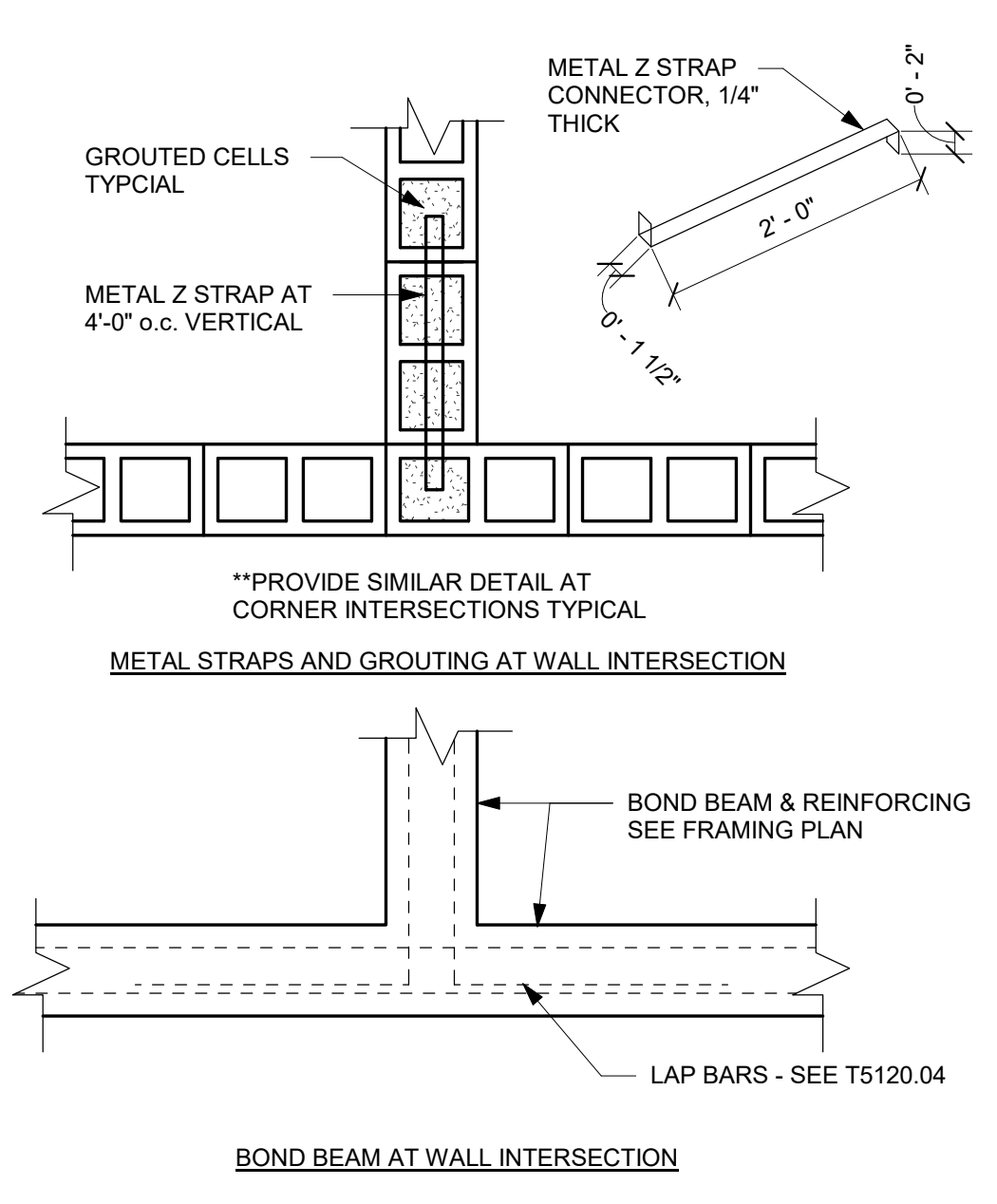


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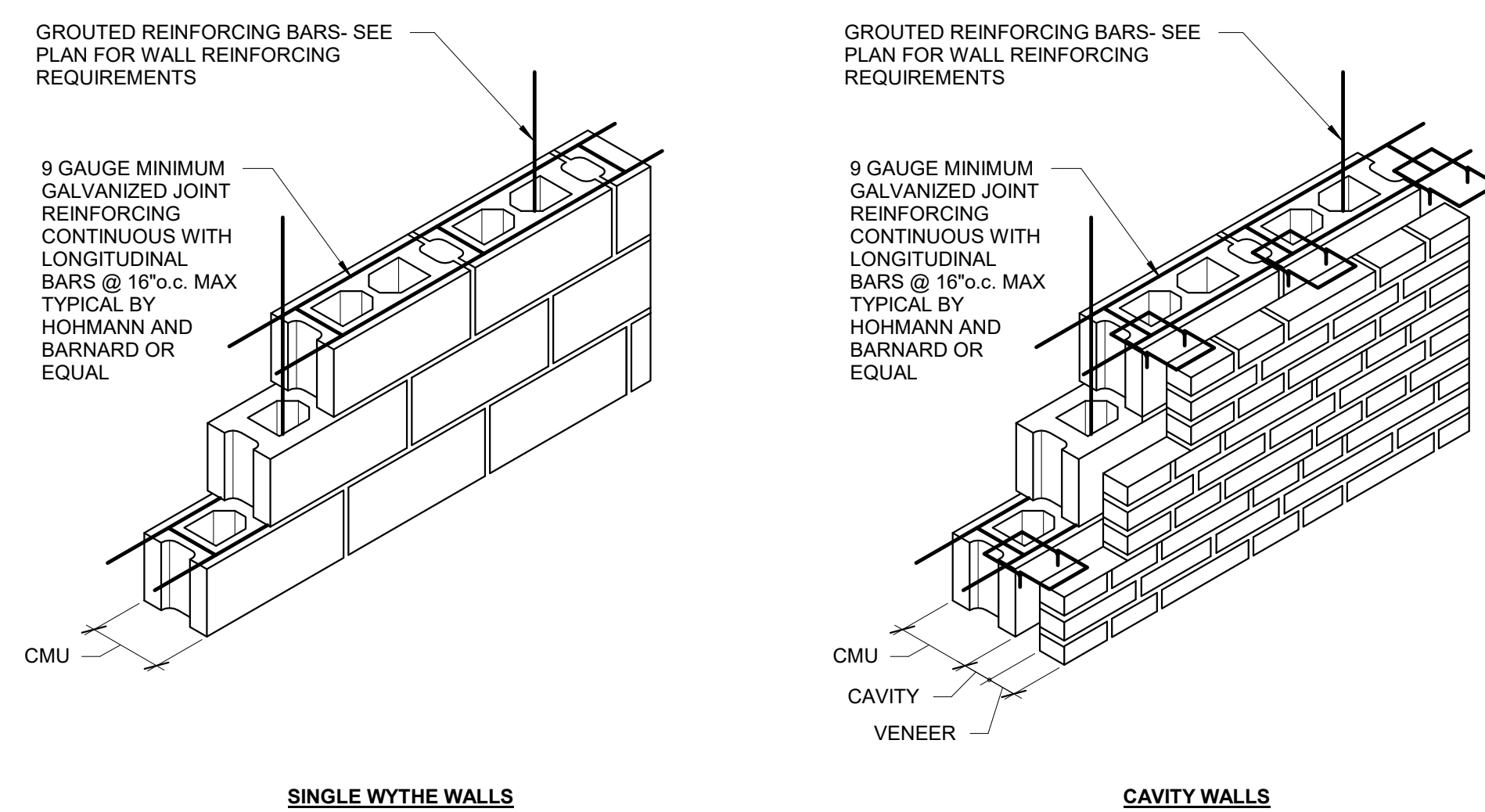
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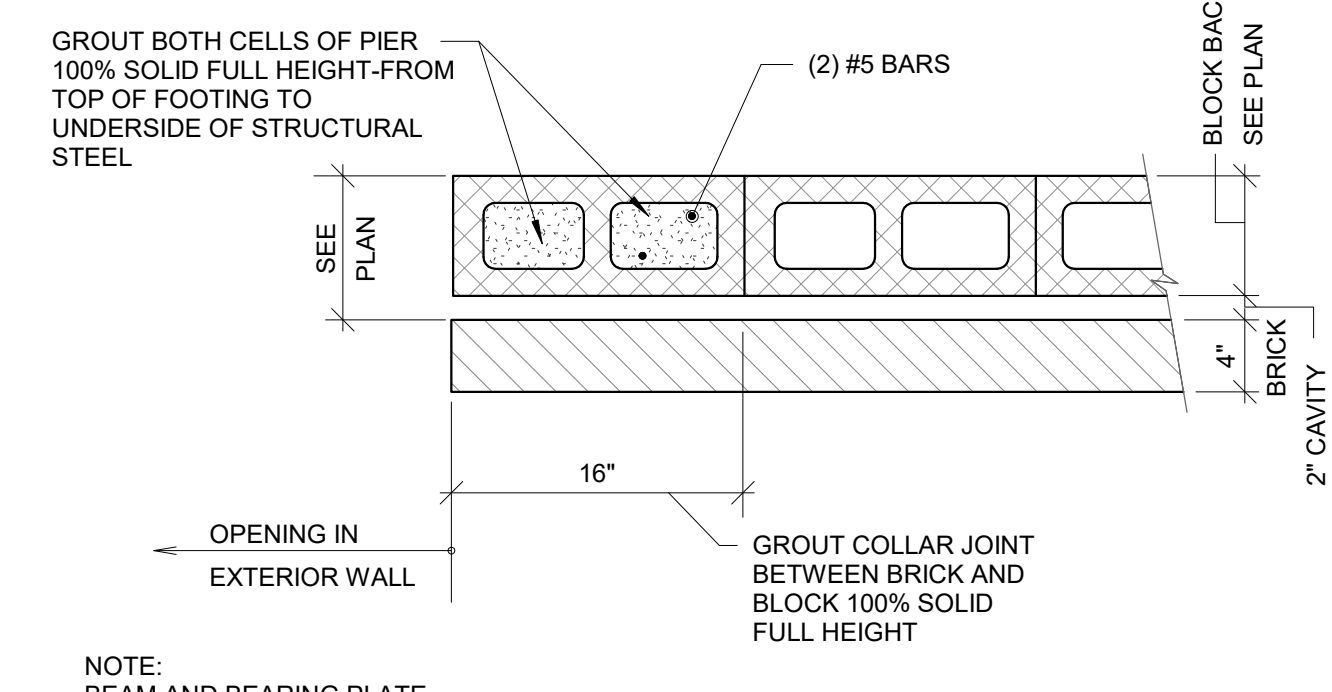
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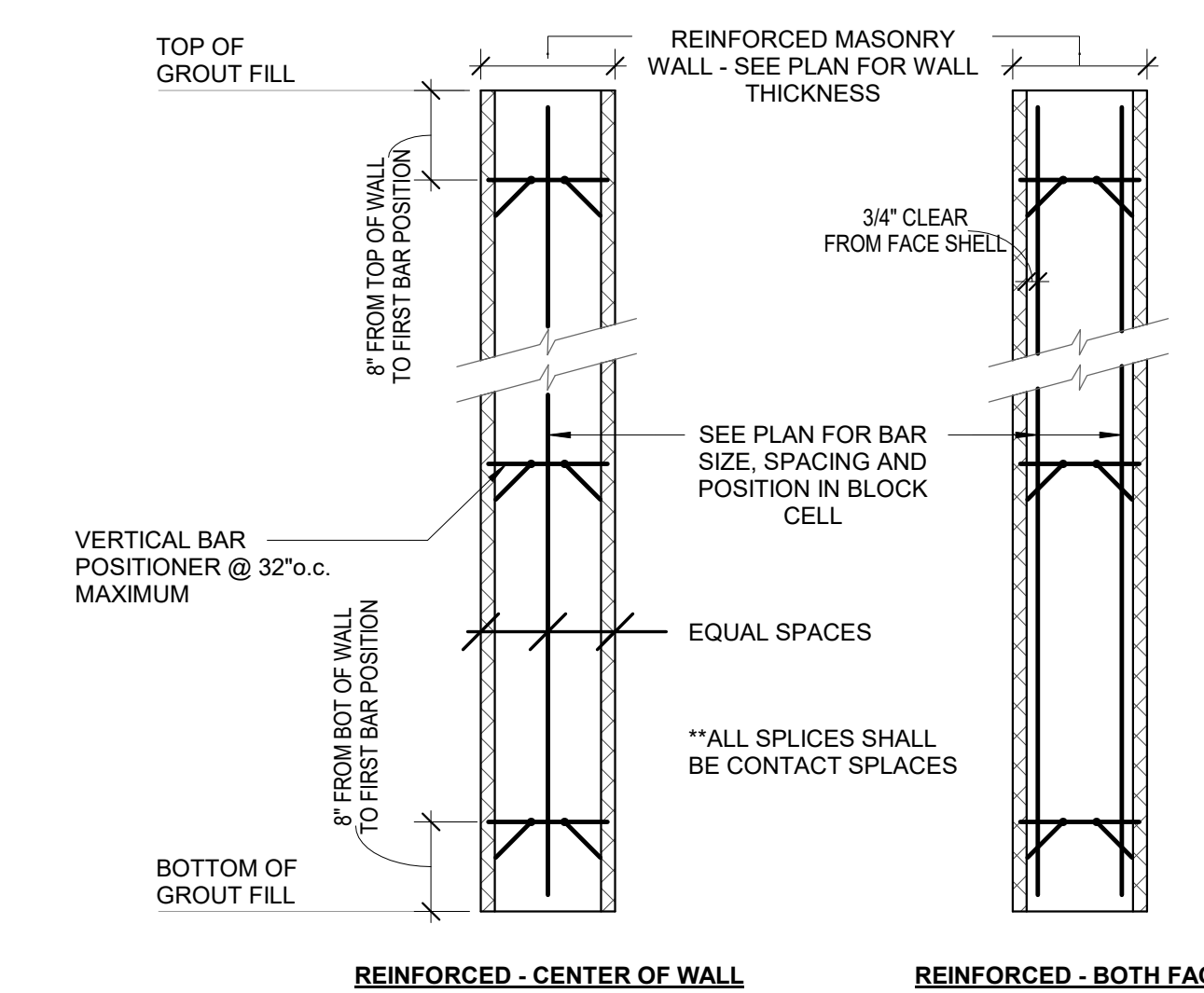
TYPICAL DETAIL AT MASONRY WALL INTERSECTION
T4230.08
N.T.S.



TYPICAL PREFABRICATED ADJUSTABLE METAL JOINT REINFORCING IN VERTICALLY REINFORCED MASONRY WALLS
T4230.07
N.T.S.



TYPICAL WALL BEARING AT OPENING
T4230.06
N.T.S.



TYPICAL REINFORCED MASONRY WALL DETAILS
T4230.03
N.T.S.

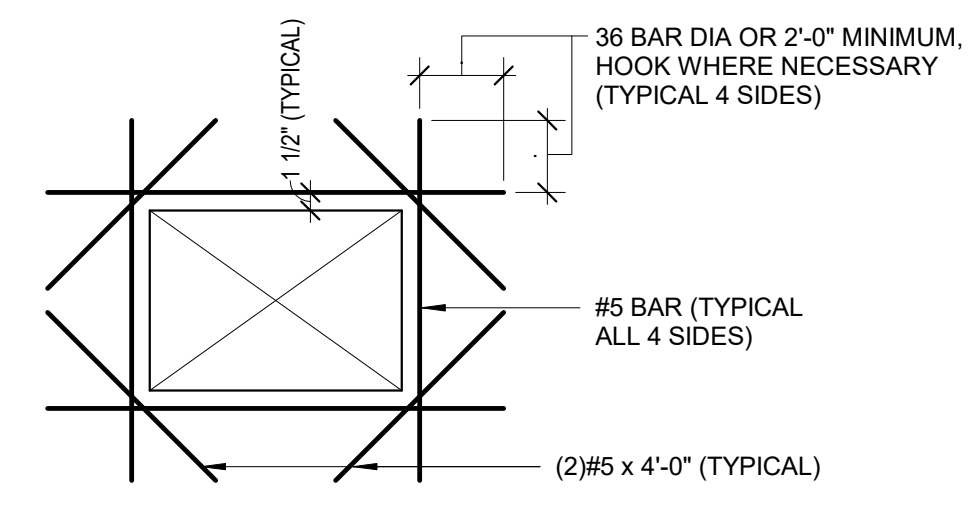
BAR LAPS	
BAR SIZE	LAP
#4	24"
#5	36"
#6	60"

NOTES:
1. ALL REINFORCING BARS SHALL BE GRADE 60 KSI.
2. ALL CELLS CONTAINING REINFORCING BARS SHALL BE GROUTED 100% SOLID WITH $f_c = 2500$ PSI GROUT UNLESS NOTED OTHERWISE.
3. USE LADDER TYPE HORIZONTAL REINFORCING IN REINFORCED MASONRY WALLS.
4. GROUT WALLS IN 4'-0" HIGH LIFTS (MAXIMUM).
5. SPLICE BARS AS REQUIRED.
6. REBAR POSITIONERS MUST BE UTILIZED TO ENSURE PROPER BAR ALIGNMENT.

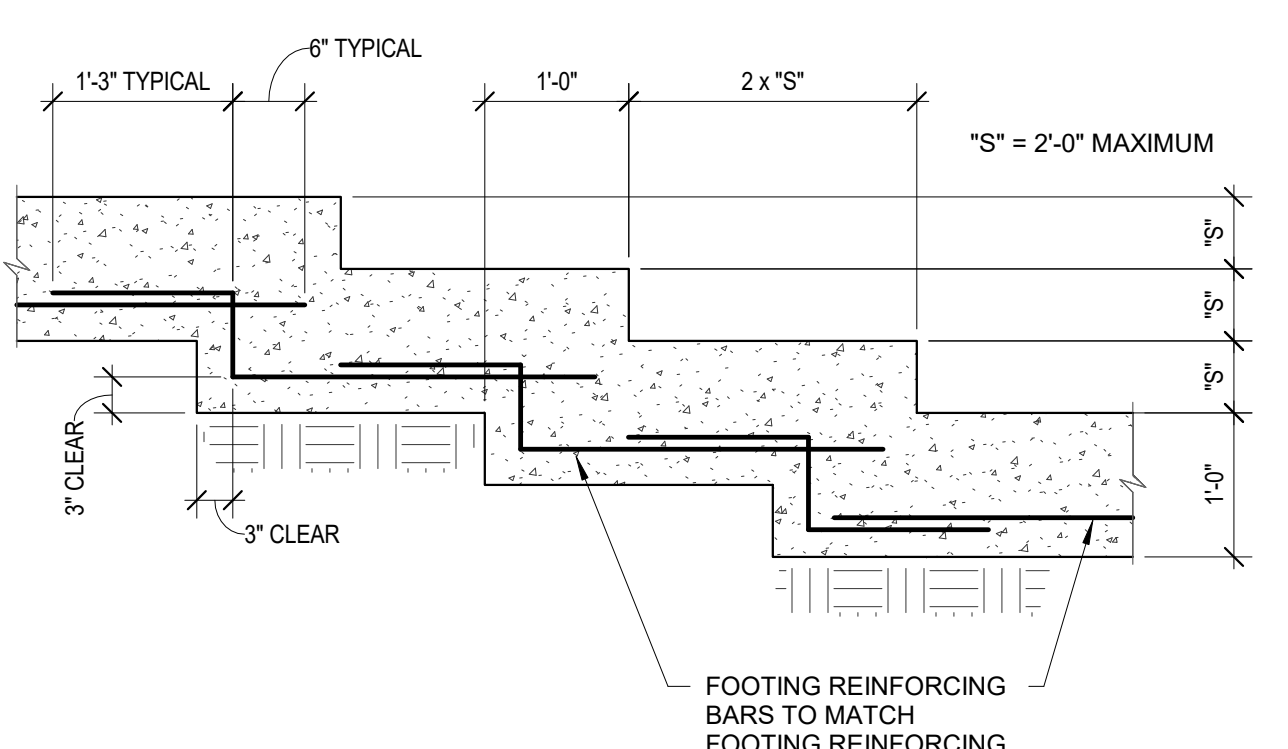
FOOTING SCHEDULE (2000 PSF)

MARK	SIZE (LENGTH x WIDTH x THICKNESS)	REINFORCEMENT (EACH WAY BOTTOM)
F20	2'-0"x2'-0"x12"	3-#4
F24	2'-4"x2'-4"x12"	3-#4
F28	2'-8"x2'-8"x12"	3-#4
F30	3'-0"x3'-0"x12"	4-#4
F34	3'-4"x3'-4"x12"	4-#4
F38	3'-8"x3'-8"x12"	4-#4
F40	4'-0"x4'-0"x12"	5-#4
F44	4'-4"x4'-4"x12"	5-#4
F48	4'-8"x4'-8"x12"	6-#4
F50	5'-0"x5'-0"x12"	7-#4
F54	5'-4"x5'-4"x12"	6-#5
F58	5'-8"x5'-8"x12"	6-#6
F60	6'-0"x6'-0"x12"	7-#6
F64	6'-4"x6'-4"x14"	9-#5
F68	6'-8"x6'-8"x14"	7-#6
F70	7'-0"x7'-0"x14"	8-#6
F74	7'-4"x7'-4"x16"	8-#6
F78	7'-8"x7'-8"x16"	9-#6
F80	8'-0"x8'-0"x16"	9-#7
F86	8'-6"x8'-6"x18"	11-#6
F90	9'-0"x9'-0"x18"	10-#7
F96	9'-6"x9'-6"x20"	10-#7
F100	10'-0"x10'-0"x20"	12-#7
F106	10'-6"x10'-6"x22"	12-#8
F110	11'-0"x11'-0"x24"	13-#7
F116	11'-6"x11'-6"x24"	12-#8
F120	12'-0"x12'-0"x26"	12-#8
F126	12'-6"x12'-6"x26"	14-#8

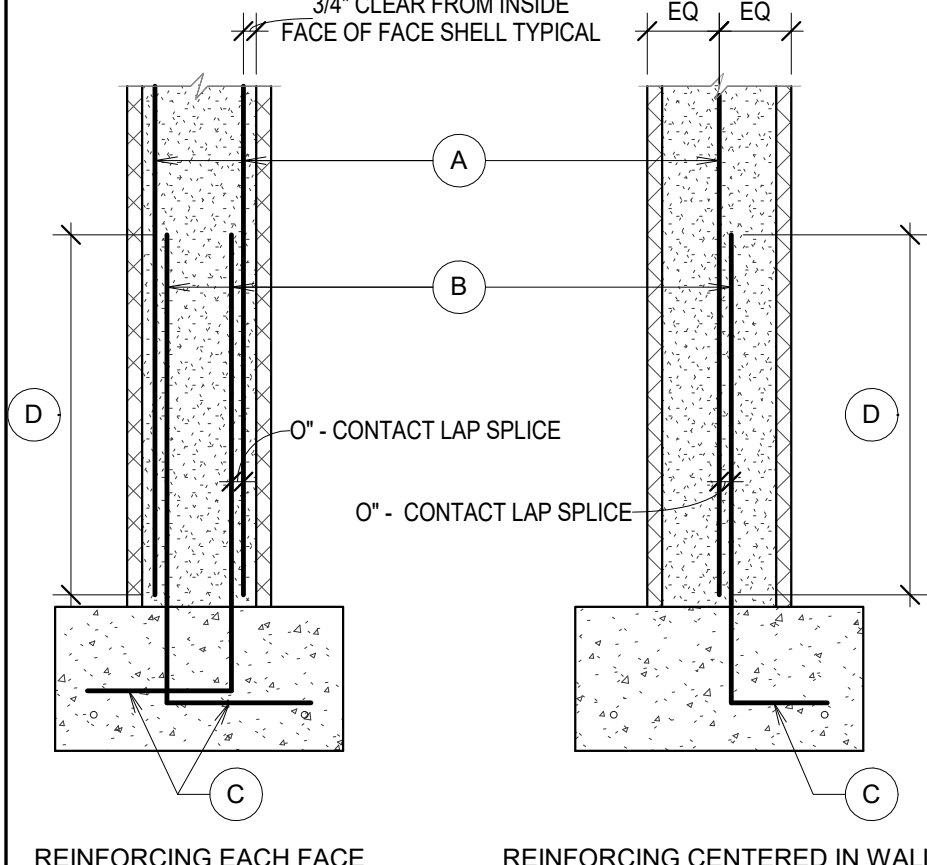
FOOTING SCHEDULE (2000 PSF)
T3300.56
N.T.S.



TYPICAL REINFORCING DETAIL AT PENETRATIONS IN SLAB ON GRADE AND CONCRETE WALLS
T3300.37
N.T.S.



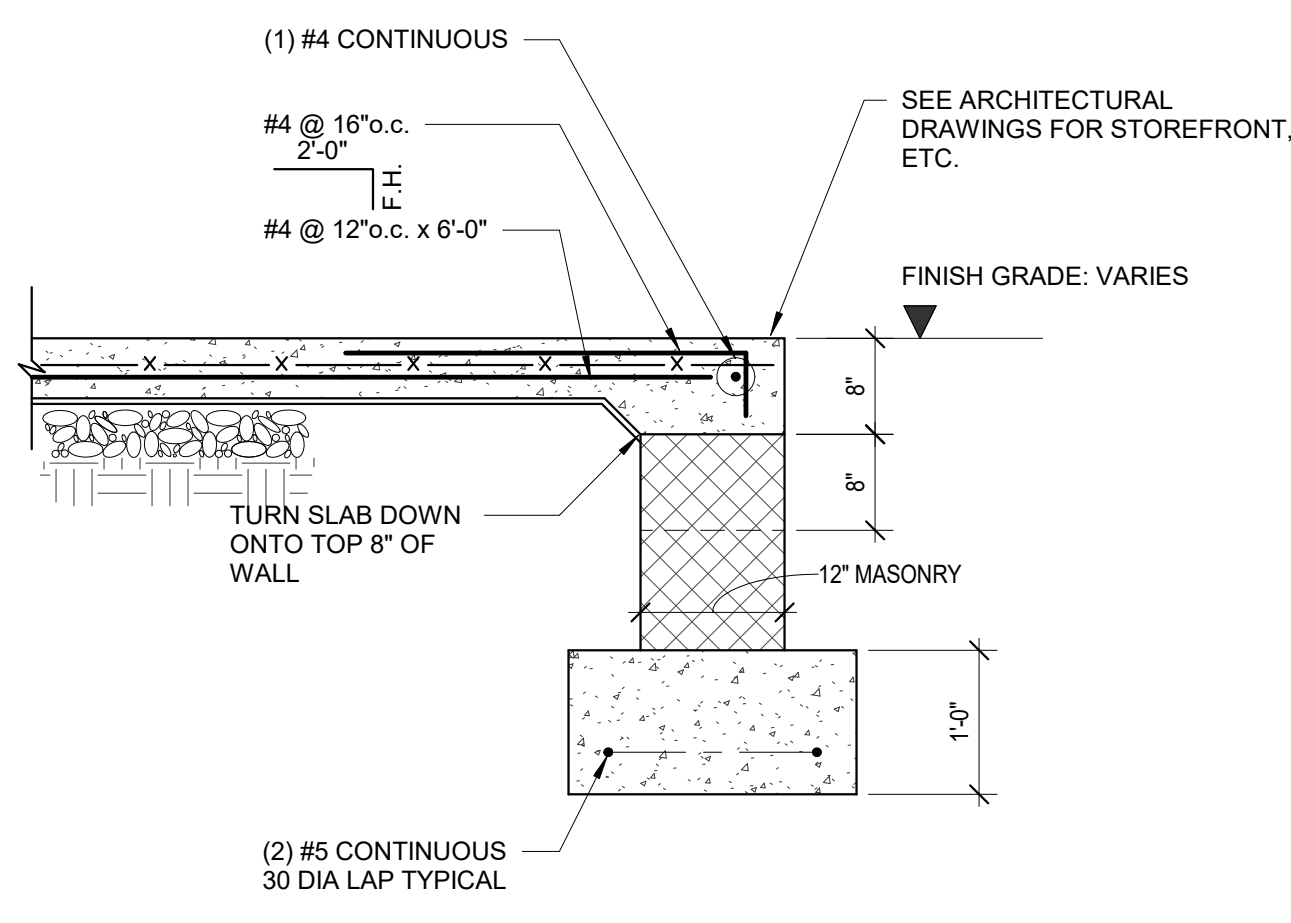
TYPICAL STEPPED FOOTING
T3300.39
N.T.S.



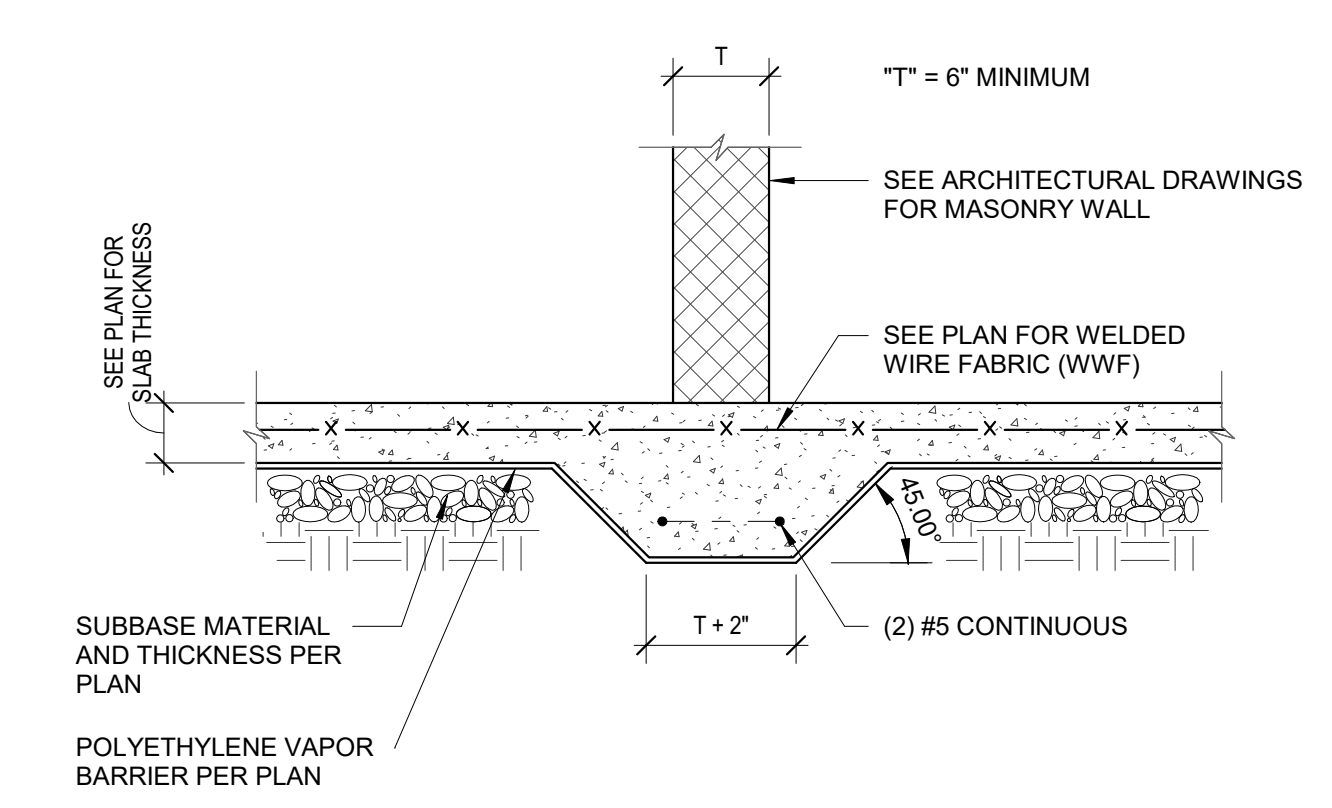
TYPICAL MASONRY WALL DOWELS INTO FOOTING
T3300.27R
N.T.S.

LEGEND
A VERTICAL WALL REINFORCING SEE PLANS AND SECTIONS FOR SIZE AND SPACING, TYPICAL
B WALL DOWEL INTO FOOTING, SIZE AND SPACING TO MATCH VERTICAL REINFORCING, TYPICAL
C HOOK BAR IN FOOTING, PROVIDE 12" HORIZONTAL LEG, DOWEL MAY BE SKEWED TO FIT WITHIN WIDTH OF FOOTING
D LAP SPLICE, PROVIDE THE FOLLOWING MINIMUM LAP (TYPICAL UNLESS NOTED OTHERWISE): #4 - 24", #5 - 36", #6 - 50"

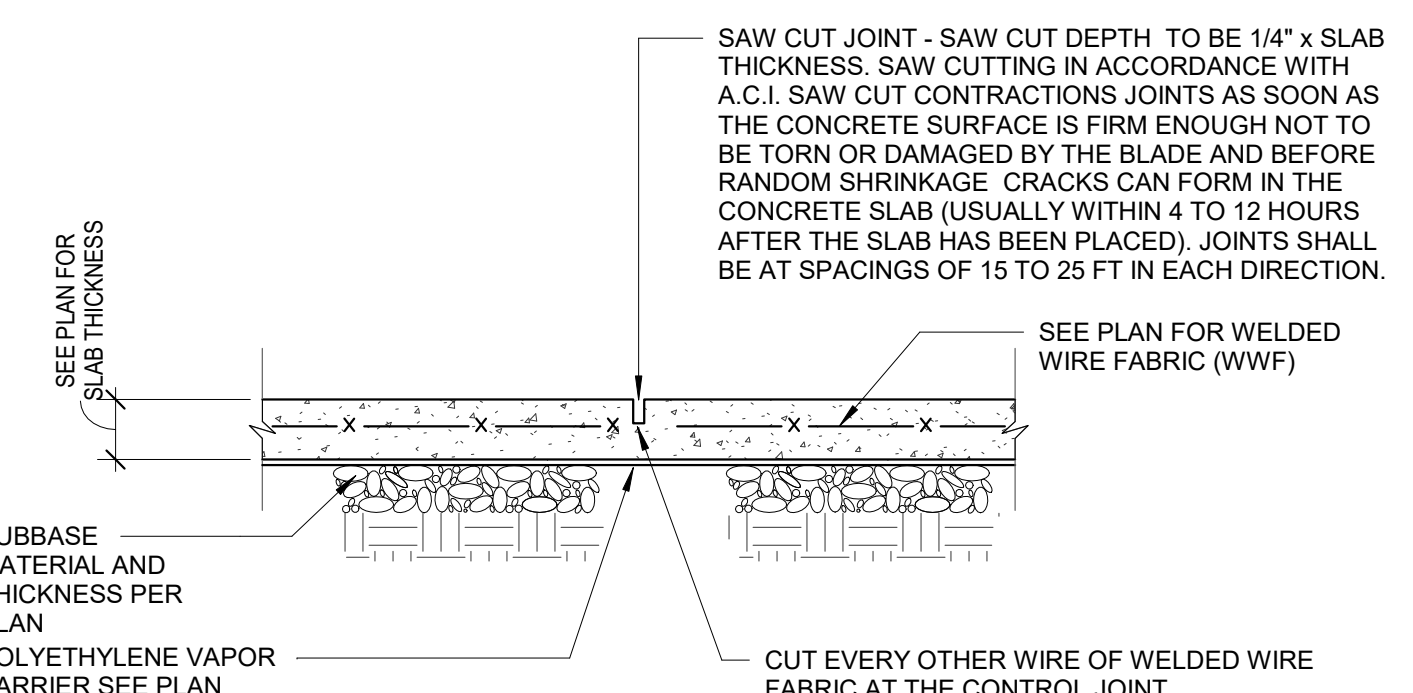
NOTES:
1. GROUT ALL CELLS CONTAINING BARS WITH $f_g = 2,500$ PSI GROUT.
2. SEE FOUNDATION PLAN AND SECTIONS FOR WALL FOOTING SIZE AND REINFORCING.



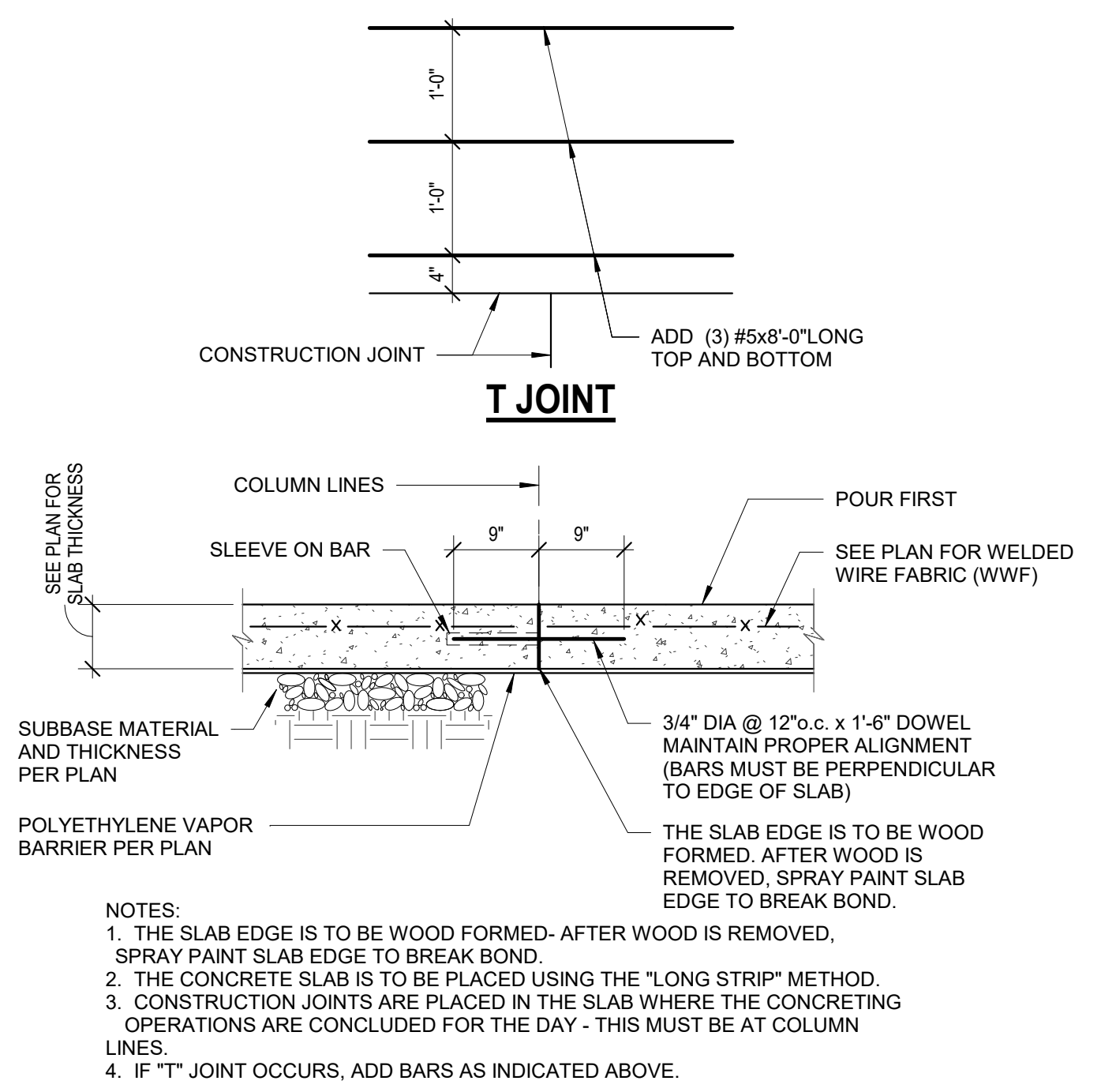
TYPICAL TURNED DOWN SLAB ON MASONRY WALL
T3300.07
N.T.S.



TYPICAL DEEPENED SLAB
T3300.06
N.T.S.

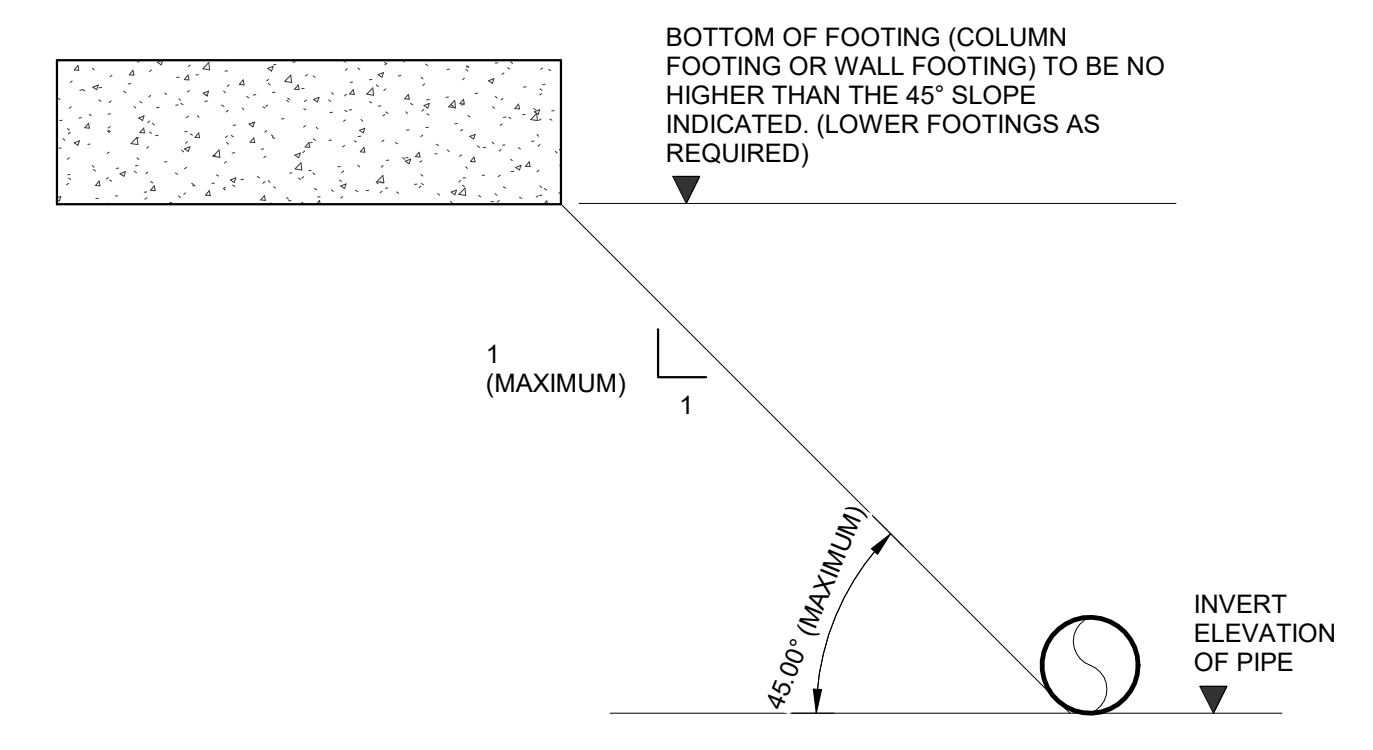


TYPICAL CONTRACTION JOINT - SAW CUT
T3300.05
N.T.S.



TYPICAL SLAB ON GROUND AND CONSTRUCTION JOINT
T3300.02
N.T.S.

NOTES:
1. THE SLAB EDGE IS TO BE WOOD FORMED. AFTER WOOD IS REMOVED, SPRAY PAINT SLAB EDGE TO BREAK BOND.
2. THE CONCRETE SLAB IS TO BE PLACED USING THE "LONG STRIP" METHOD.
3. CONSTRUCTION JOINTS ARE PLACED IN THE SLAB WHERE THE CONCRETING OPERATIONS ARE CONCLUDED FOR THE DAY - THIS MUST BE AT COLUMN LINES.
4. IF "T" JOINT OCCURS, ADD BARS AS INDICATED ABOVE.



TYPICAL PIPE INVERT AND FOOTING RELATIONSHIP
T2384.01
N.T.S.

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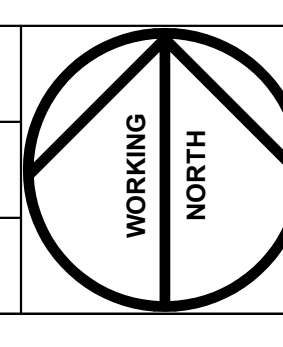
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2	CD 90% SET	12/19/2023
3	BID DOCUMENTS	4/8/2024

LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING
ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:
TYPICAL DETAILS

PROJECT NO: 23010
DATE: 4/8/2024
SCALE: 3/4" = 1'-0"
DRAWN BY: PN
CHECKED BY: SR
SHEET NO:





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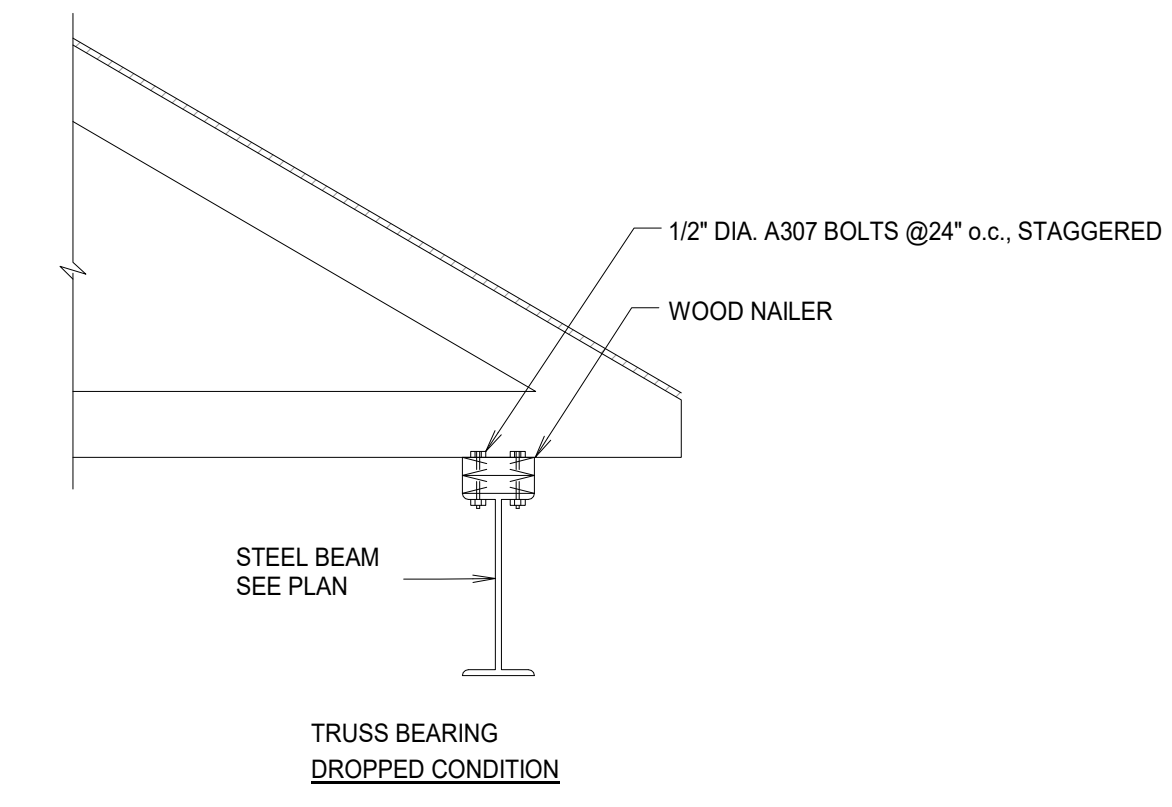
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LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING
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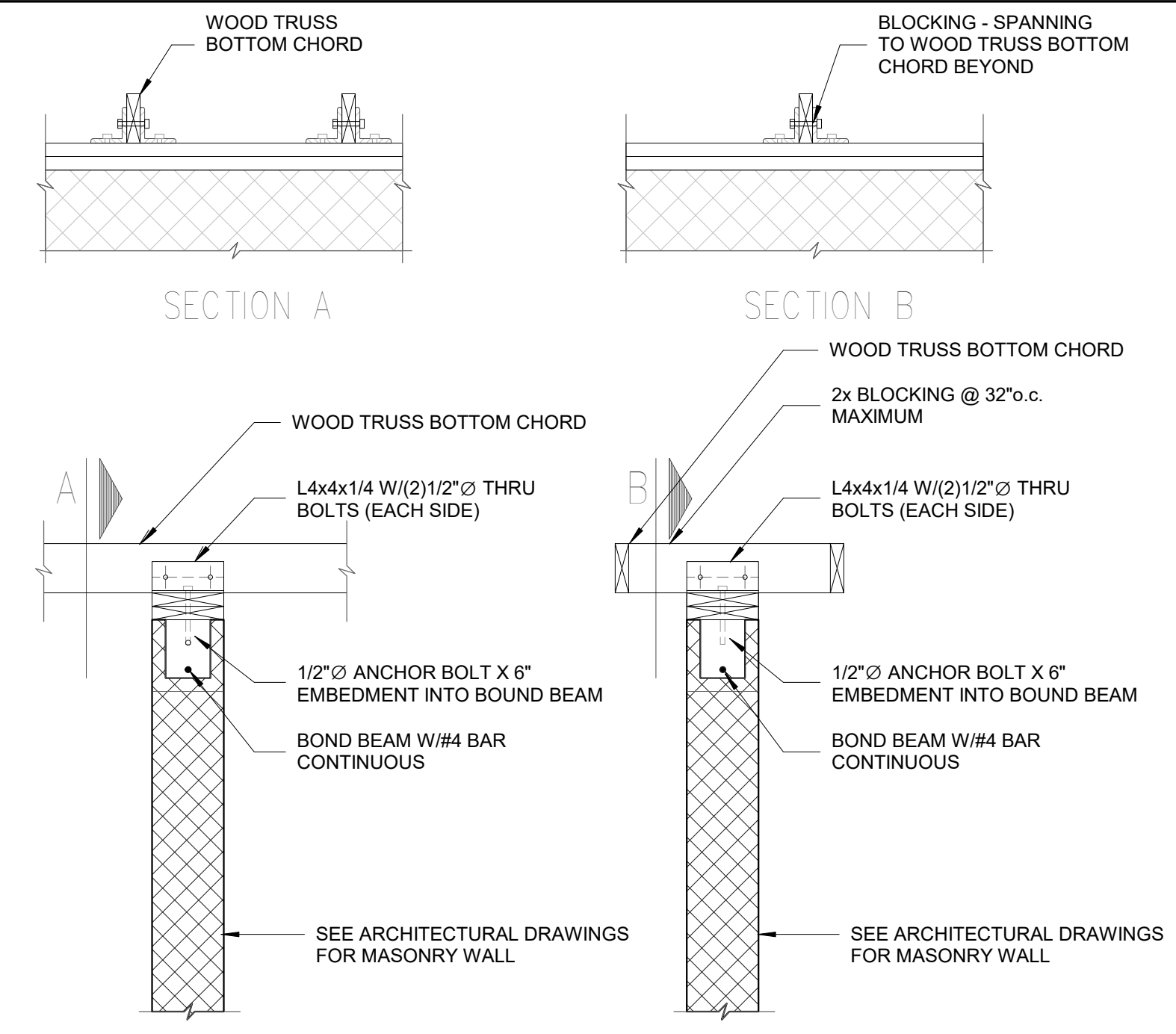
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TYPICAL DETAILS

PROJECT NO:	23010
DATE:	4/8/2024
SCALE:	3/4" = 1'-0"
DRAWN BY:	PN
CHECKED BY:	SR
SHEET NO:	

S-3

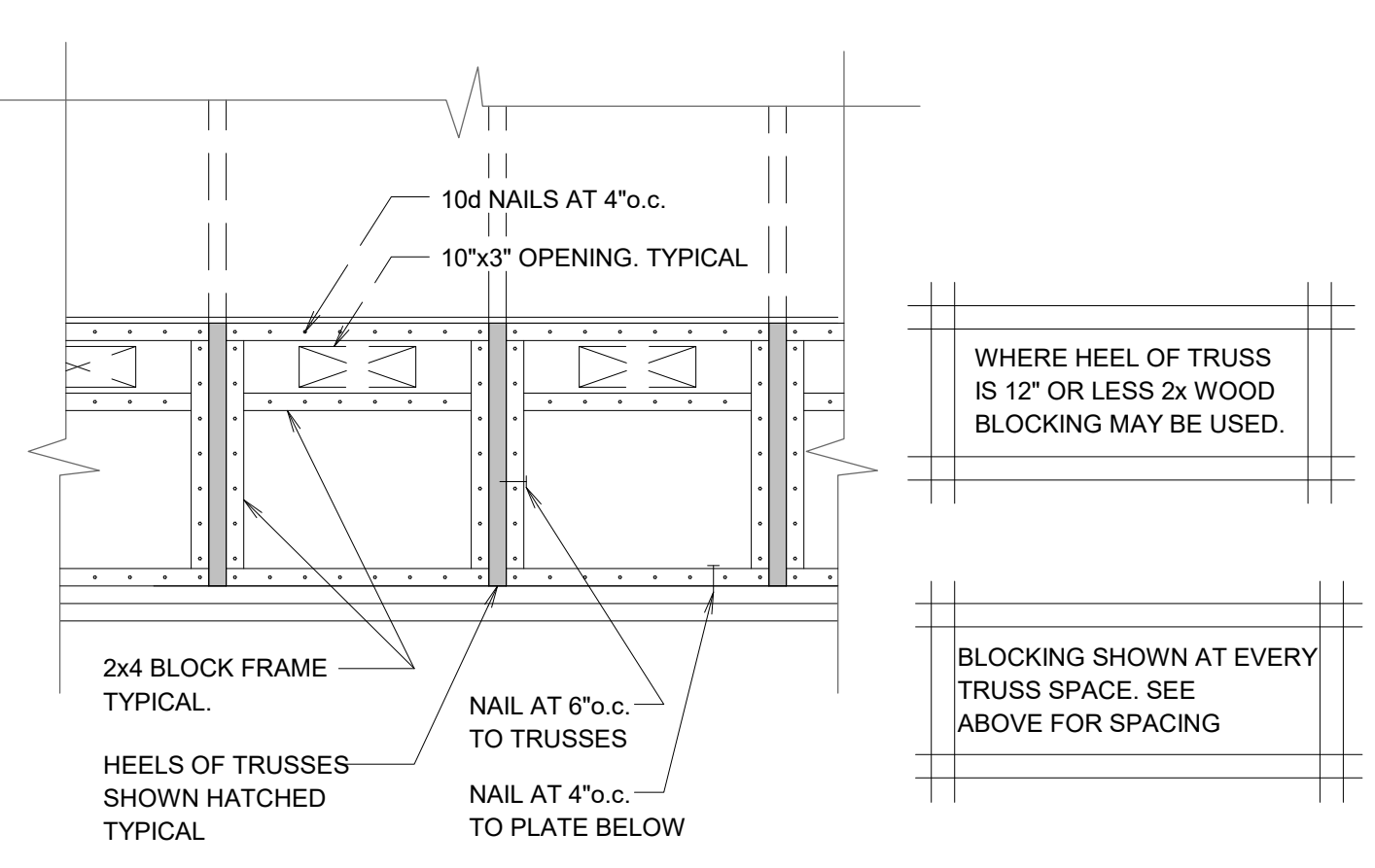


TYPICAL WOOD TO STEEL BEAM CONNECTIONS
N.T.S. T6200.18

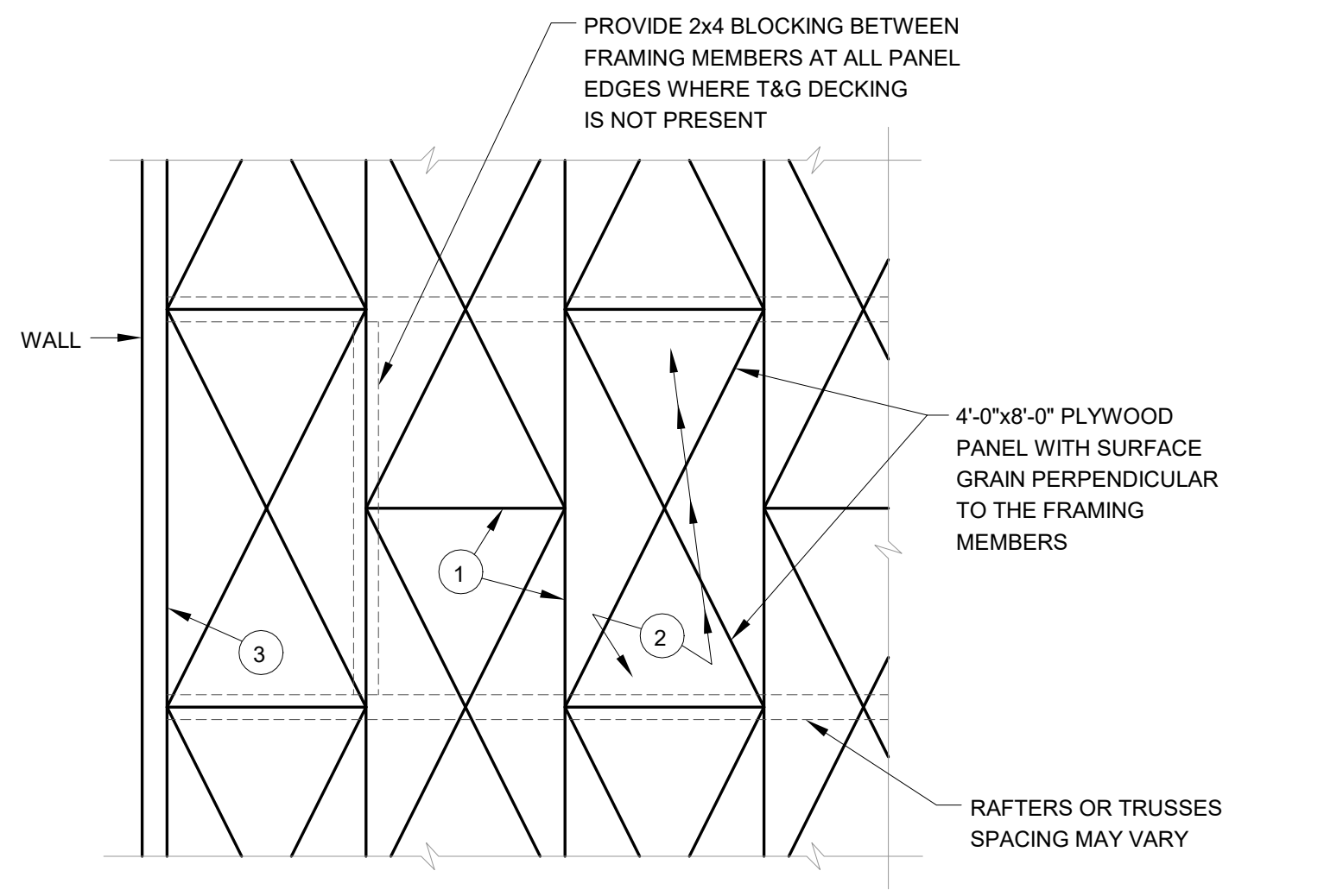


TYPICAL INTERIOR MASONRY BRACING DETAIL
N.T.S. T5500.03

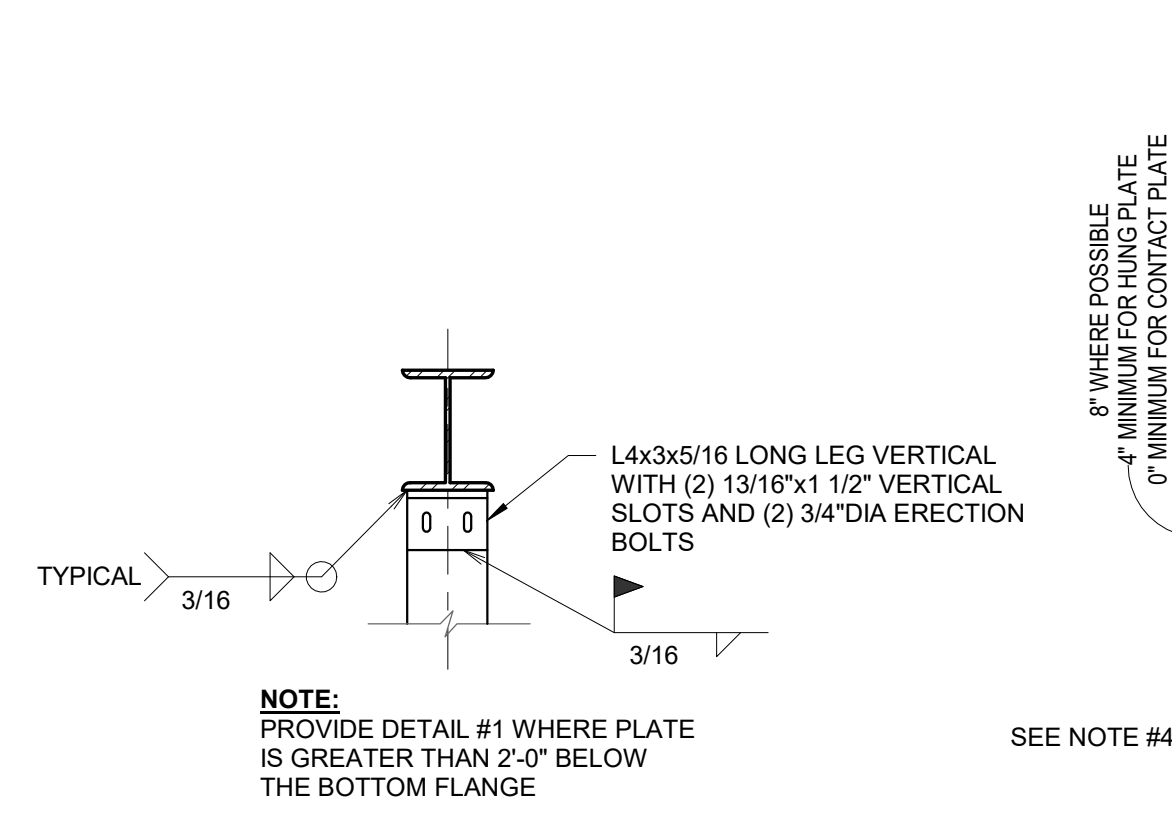
BLOCKING DETAIL REQUIREMENTS:	
LOCATION	SPACING
DIRECTLY ABOVE SHEAR WALLS	EVERY OTHER TRUSS SPACE
ALL OTHER LOCATIONS	EVERY 4TH TRUSS SPACE AT LEAST 2 PER WALL RUN



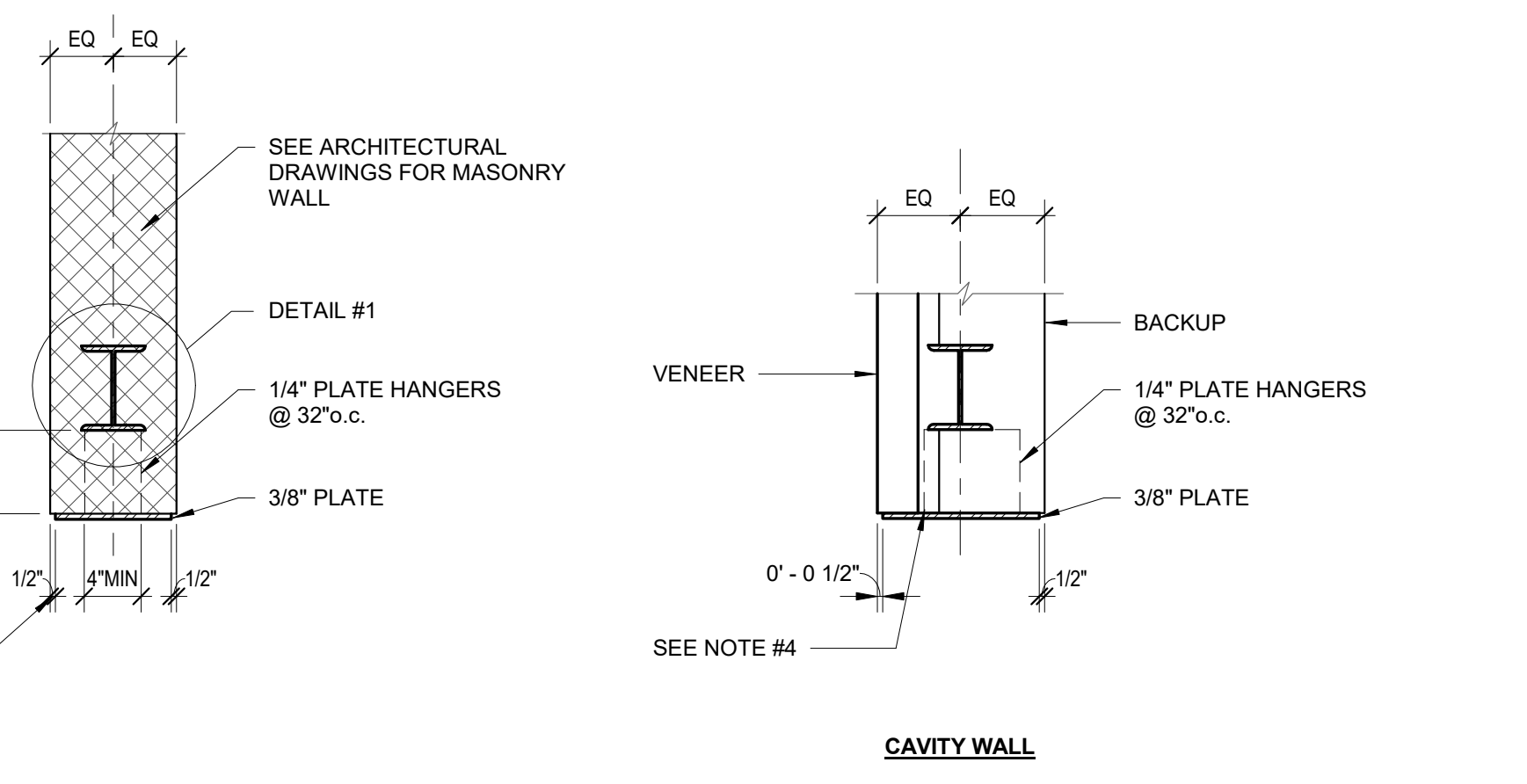
TYPICAL TRUSS HEEL BLOCKING DETAIL
N.T.S. T6200.20



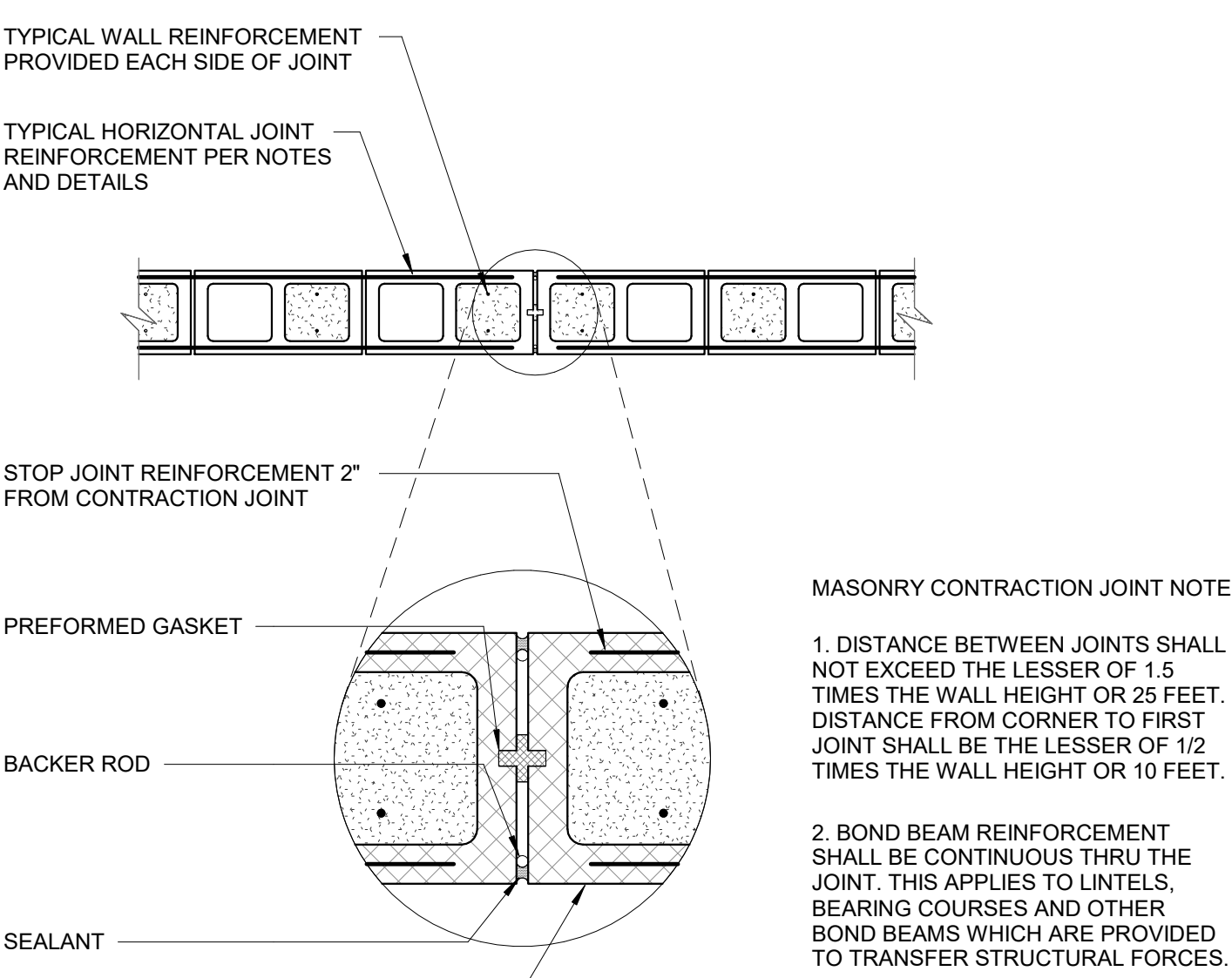
TYPICAL PLYWOOD DIAPHRAGM LAYOUT
N.T.S. T6200.02



TYPICAL BEAM AND HUNG PLATE OR TYPICAL BEAM AND CONTACT PLATE
N.T.S. T5120.10

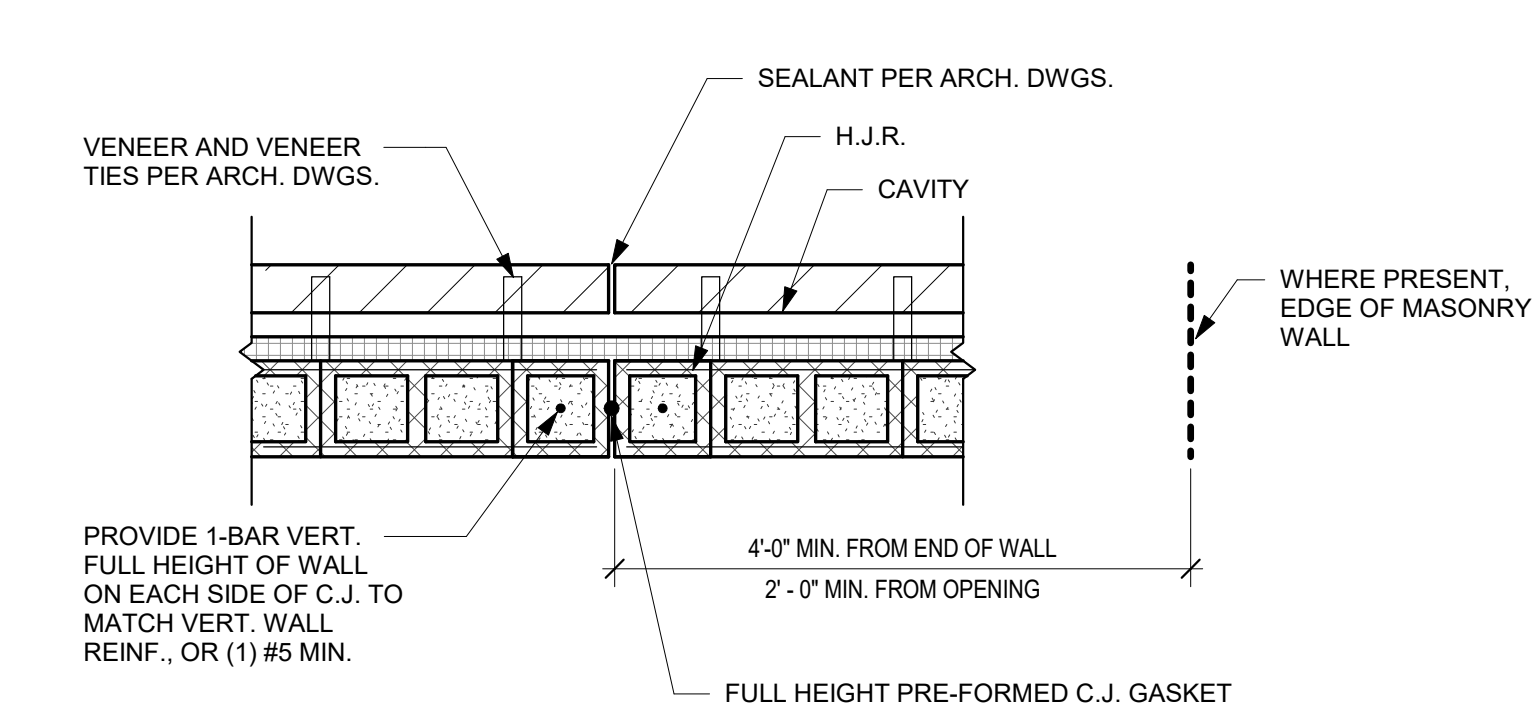
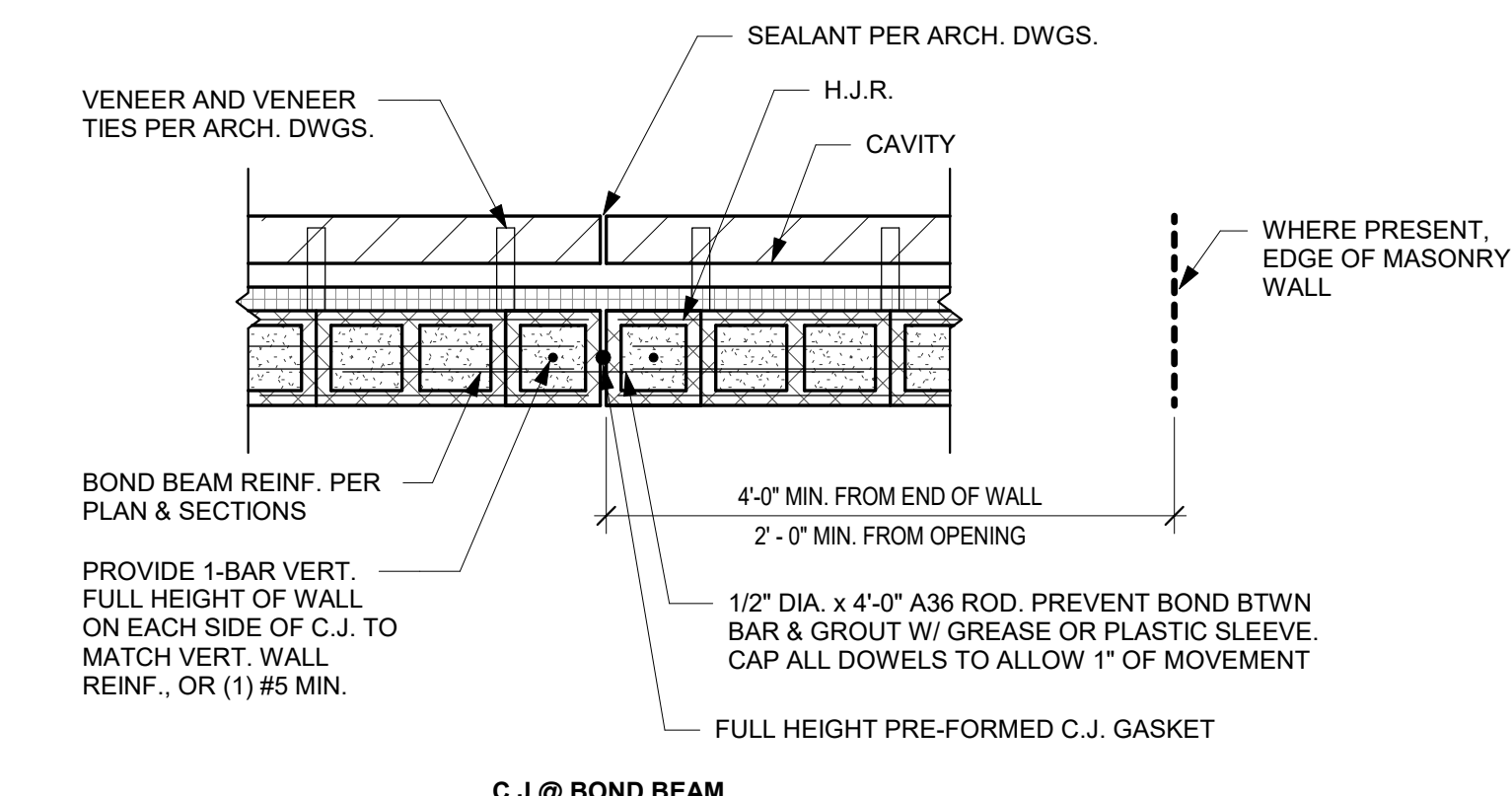


TYPICAL CAVITY WALL
N.T.S. T5120.10

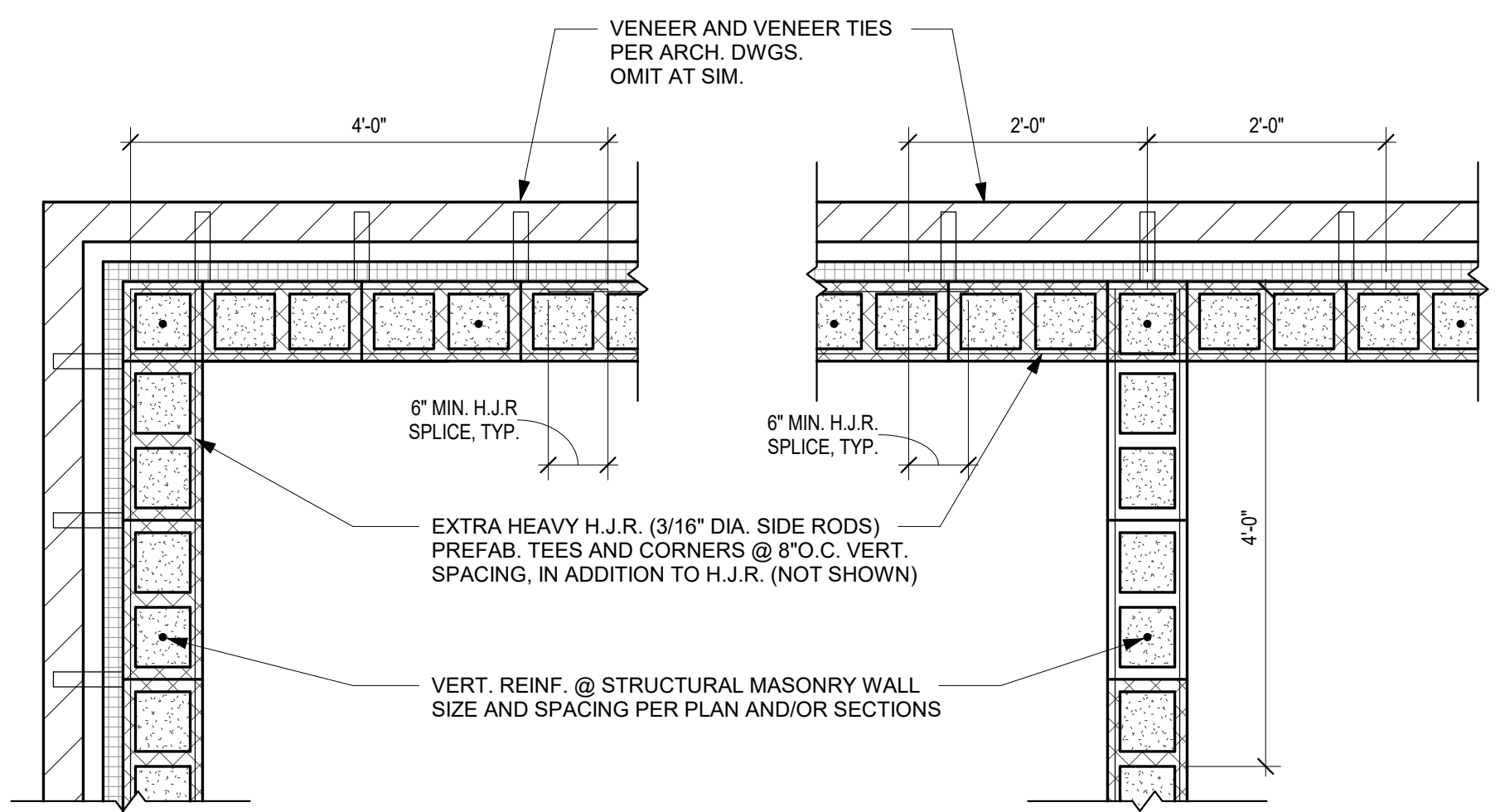


TYPICAL MASONRY WALL CONTRACTION JOINT PLAN DETAIL
N.T.S. T4230.14

MASONRY CONTRACTION JOINT NOTES:
1. DISTANCE BETWEEN JOINTS SHALL NOT EXCEED THE LESSER OF 15 TIMES THE WALL HEIGHT OR 25 FEET. DISTANCE FROM CORNER TO FIRST JOINT SHALL BE THE LESSER OF 1/2 TIMES THE WALL HEIGHT OR 10 FEET.
2. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS THRU THE JOINT. THIS APPLIES TO LINTELS, BEARING COURSES AND OTHER BOND BEAMS WHICH ARE PROVIDED TO TRANSFER STRUCTURAL FORCES.



TYPICAL WALL CONTROL JOINT WITH VENEER
N.T.S. T4230.12



TYPICAL CORNER TEE INTERSECTION HJR REINFORCING
N.T.S. T4230.11

NOTES:
WHERE CORNERS ARE NOT 90 DEG. AND H.J.R. CANNOT BE USED, USE (2) #5 BAR W/ 45° LEGS (ONE EACH FACE) IN PLACE OF H.J.R.

GENERAL NOTES: (MECHANICAL)

GENERAL NOTES AND CONDITIONS:

- COORDINATE NEW WORK BETWEEN ALL DISCIPLINES.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS, AND REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT.
- THE INTENT OF THESE DRAWINGS IS FOR THE CONTRACTOR TO PROVIDE ALL LABOR, MATERIAL, FINISHES, EQUIPMENT, INSTALLATION, AND SERVICES NECESSARY FOR AND INCIDENTAL WITH THE WORK, TO PROVIDE THE OWNER WITH A COMPLETE PROJECT INCLUSIVE OF ALL SYSTEMS.
- PRIOR TO INITIATING ANY PORTION OF THE WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATE ALL PORTIONS OF THE CONTRACT DOCUMENTS RELATING TO THAT PORTION OF THE WORK AND AFFECTING ADJOINING PORTIONS. IF DISCREPANCIES EXIST, THEY SHALL BE REPORTED TO THE OWNER FOR CLARIFICATION AND/OR RESOLUTION BEFORE COMMENCING SUCH WORK.
- BY SUBMITTING A BID PROPOSAL THE CONTRACTOR CERTIFIES THAT THEY HAVE VISITED THE SITE AND UNDERSTAND THE COMPLETE SCOPE OF WORK, WHICH IS INCLUDED IN THE PROPOSAL.
- DEFINITIONS: "PROVIDE" MEANS "FURNISH AND INSTALL". "VERIFY" MEANS "VERIFY IN THE FIELD AND COORDINATE DIMENSIONS AND DISCREPANCIES".
- THESE NOTES AND OTHER NOTES ON THE DRAWINGS ARE DIRECTIONS FOR THE CONTRACTOR'S PERFORMANCE, UNLESS NOTED OTHERWISE (U.N.O.). FOR EXAMPLE, THE VERB "INSTALL" MEANS "CONTRACTOR SHALL INSTALL"; "RELOCATE" MEANS "CONTRACTOR SHALL RELOCATE", ETC.
- UNLESS NOTED OTHERWISE, NUMBERED DIMENSIONS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER SCALED DRAWINGS. DETAIL DRAWINGS TAKE PRECEDENCE OVER GENERAL DRAWINGS. IF CONFLICTS EXIST ON THE DRAWINGS, THEN THE MORE STRINGENT REQUIREMENT SHALL APPLY. FINAL INTERPRETATION SHALL BE MADE BY THE ENGINEER.
- SAMPLES AND SHOP DRAWINGS MUST BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR REVIEW AND PROCESSING BEFORE THE PURCHASE OR FABRICATION OF ANY MATERIALS.
- DURING THE WORK, ANY CONDITION DISCOVERED THAT CAUSES CONFLICT WITH THE INTENDED DESIGN MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- CONTRACTOR SHALL STAGE WORK IN SUCH A WAY AS TO ENSURE SAFE EMERGENCY EGRESS AT ALL TIMES.
- EXCEPT FOR PREFINISHED SURFACES, ALL ITEMS DISTURBED OR DAMAGED BY WORK SHALL BE REFINISHED TO MATCH SURROUNDING AREA OR FINISHED AS INDICATED.
- ALL HOLES AND PENETRATIONS IN WALLS AND CEILING SURFACES SHALL BE PATCHED AND FIRE STOPPED.
- ANY ALTERATION TO THE STRUCTURE (I.E. CORE DRILLING CONCRETE, ETC.) SHALL BE COORDINATED WITH THE GENERAL TRADES CONTRACTOR.
- UNLESS OTHERWISE INDICATED, ALL PIPING, CONDUIT, DUCTWORK, AND SIMILAR SERVICES SHALL BE CONCEALED.
- GENERAL NOTES, THOSE FOUND ON THIS SHEET, APPLY TO ALL DRAWINGS RELATED TO THIS PROJECT.
- DRAWING NOTES SPECIFICALLY REFER TO ITEMS NOTED WITH NUMBER OR LETTER DESIGNATIONS ON THE RESPECTIVE DRAWING WHERE THE DESIGNATIONS ARE SHOWN.
- ALL INSULATED EXTERIOR PIPING SYSTEM SHALL BE PROVIDED WITH ALUMINUM JACKETING.
- PROVIDE MANUAL VOLUME DAMPERS FOR EACH AIR DEVICE (SUPPLY, RETURN, RELIEF, EXHAUST) WHICH IS INDICATED TO HAVE A SPECIFIC AIRFLOW (CFM).
- PROVIDE INSULATED STAND-OFFS FOR ALL MANUAL VOLUME DAMPERS INSTALLED IN INSULATED DUCT SYSTEMS.
- PROVIDE LIQUID LEVEL OVERFLOW SENSORS IN ALL UNIT CONDENSATE DRAIN PANS. INTERLOCK TO DEENERGIZE UNIT AND ALARM THROUGH THE EMS.
- ALL TRANSFER AIR DUCTS SHALL BE SINGLE WALL SOUND LINED (NO INNER GALVANIZED LINER). ALL OTHER SOUND LINED DUCTS EXCEPT FOR DIFFUSER PLENUM BOXES SHALL BE DOUBLE WALL TYPE WITH PERFORATED GALVANIZED INNER LINER.
- ALL EXPOSED DUCTWORK SHALL BE PAINT GRADE TYPE WITH SELF SEALING JOINTS UNLESS NOTED OTHERWISE.
- USE RADIUS ELBOWS WHEREVER POSSIBLE. USE 90° MITERED ELBOWS WHERE RADIUS ELBOWS CAN'T BE USED.
- ALL ROOF MOUNTED EXHAUST FANS AND INTAKE VENTS SHALL BE PROVIDED WITH MOTOR OPERATED DAMPERS (MOD'S-ATC) EXCEPT FOR KITCHEN HOOD / RANGE HOOD EXHAUST FANS.
- PROVIDE DOUBLE WALL INSULATED BLANK OFF PANELS BEHIND UNUSED PORTION OF LOUVERS.
- ALL EXPOSED CABINETS (CABINET UNIT HEATERS, CONNECTORS ETC), BRICK VENTS, LOUVERS ETC SHALL BE PROVIDED WITH A CUSTOM COLOR AS SELECTED BY THE ARCHITECT.
- PROVIDE FRAME/ESCUTCHEON AROUND EXPOSED DUCTS PENETRATING WALLS.
- WHERE DUCT RUNNOUTS ARE EXPOSED TO VIEW, UTILIZE RIGID DUCTWORK IN LEU OF FLEXIBLE TYPE.
- ALL ROOF CURBS FOR FANS, VENTS AND UNITS SHALL BE A MINIMUM OF 18" ABOVE FINISHED ROOF AND TOP OF CURB SHALL BE LEVEL.
- LOCATE ALL ROOF MOUNTED EQUIPMENT WHICH REQUIRES SERVICING A MINIMUM OF 10 FEET FROM THE EDGE OF THE ROOF UNLESS THERE IS MIN 42" HIGH PARAPET. PROVIDE OSHA APPROVED HANDRAILS WHERE EQUIPMENT IS LOCATED WITHIN 10'-0" OF ROOF EDGE.
- COORDINATE LOCATION OF ALL ROOF MOUNTED INTAKE VENTS TO BE A MINIMUM OF 15 FEET FROM PLUMBING VENTS, EXHAUST VENTS, EXHAUST FANS ETC.
- ALL WALL MOUNTED SENSORS SHALL BE PROVIDED WITH PROTECTIVE METAL GUARDS OR CAGES.
- DUCT DETECTORS SHALL BE FURNISHED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE ATC CONTRACTOR SHALL HARD WIRE INTERLOCK TO THE AHU AND THE FIRE ALARM CONTRACTOR SHALL INTERLOCK WITH THE FIRE ALARM. DUCT SMOKE DETECTORS SHALL BE PROVIDED IN ALL AIR HANDLING UNITS 2000 CFM AND GREATER (SUPPLY AND RETURN).
- ALL OPEN END DUCTS SHALL BE PROVIDED WITH ½" X ½" MESH BIRD SCREEN.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL REFRIGERANT ROUTING, SIZING, ACCESSORIES AND INSTALLATION IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR PATCHING AND REPAIRING ALL PENETRATIONS TO MATCH EXISTING MATERIALS AND FINISHES.
- LEAVE SPACE CLEAN ON COMPLETION, INCLUDING THE CLEANING OF GLASS, DOORS, FRAMES, FLOORS, GRILLES, LIGHT LENSES, ETC.
- REFER TO STRUCTURAL DRAWINGS FOR TYPICAL PENETRATION/OPENING/INFILL DETAILS.
- IT IS THE INTENT OF THESE DRAWINGS FOR ALL DISCIPLINES AND SPECIFICATIONS TO PRODUCE A COMPLETE PROJECT. IN ALL CASES THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED, PRICED, ESTIMATED, AND CONSTRUCTED IN THEIR ENTIRETY. THE DRAWINGS ARE COMPLEMENTARY TO ONE ANOTHER AND THE SPECIFICATIONS, ANYTHING SHOWN OR IMPLIED ON ANY ONE DRAWING MUST BE PROVIDED, INSTALLED AND CONNECTED AS THOUGH IT WAS SHOWN ON ALL DRAWINGS AND INCLUDED IN THE ORIGINAL PRICING. NO REQUEST FOR ADDITIONAL COST OR CHANGE ORDER WILL BE ACCEPTED BY THE OWNER FROM ANY CONTRACTOR, SUPPLIER, OR INSTALLER THAT RESULTS FROM A FAILURE TO THOROUGHLY REVIEW ALL DRAWINGS AND SPECIFICATIONS, COORDINATE WITH OTHER TRADES, OR THOROUGHLY INSPECT THE SITE TO DETERMINE ALL EXISTING CONDITIONS.
- IF AN ASSUMED OR ACTUAL CONFLICT IS DISCOVERED IN THE CONTRACT DOCUMENTS, THE MORE EXPENSIVE OR HIGHER QUALITY OPTION (AS DETERMINED BY THE ARCHITECT/ENGINEER) SHALL BE ASSUMED TO APPLY UNLESS DIRECTED OTHERWISE BY THE ARCHITECT/ENGINEER.
- THE CONTRACTOR IS REQUIRED TO VISIT THE SITE, FAMILIARIZE THEMSELVES WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND AS ARE NECESSARY FOR CONSTRUCTION, AND CORRELATE THEIR OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. IT IS ASSUMED THAT THE CONTRACTOR HAS OBTAINED, BEFORE AWARD OF THE CONTRACT, CLARIFICATION OF ALL QUESTIONS AS TO THE INTENT OF THE CONTRACT DOCUMENTS AND OF ASSUMED OR ACTUAL CONFLICT BETWEEN TWO OR MORE ITEMS IN CONTRACT DOCUMENTS. SHOULD THE CONTRACTOR FAIL TO OBTAIN SUCH CLARIFICATION, THE ARCHITECT/ENGINEER SHALL DIRECT WORK TO PROCEED BY THE METHOD INDICATED, SPECIFIED OR REQUIRED BY CONTRACT DOCUMENTS WHICH WILL PRODUCE THE BEST RESULTS, AS JUDGED BY THE ARCHITECT/ENGINEER. SUCH DIRECTION BY THE ARCHITECT/ENGINEER SHALL NOT ENTITLE THE CONTRACTOR TO ANY CLAIM FOR EXTRA COST.
- IF ACTUAL FIELD CONDITIONS VARY FROM WHAT IS SHOWN OR ASSUMED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR IS REQUIRED TO PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK AFFECTED BY THE ACTUAL FIELD CONDITION.
- COORDINATE ALL DUCTWORK WITH WOOD TRUSS DESIGNER/FABRICATOR.

MECHANICAL LEGEND

SYMBOL	ABBREV	DEFINITION	SYMBOL	ABBREV	DEFINITION
	SA	SUPPLY AIR DUCT UP, DOWN		HPS	HIGH PRESSURE STEAM
	RA	RETURN AIR DUCT UP, DOWN		MPS	MEDIUM PRESSURE STEAM
	EA	EXHAUST AIR DUCT UP, DOWN		LPS	LOW PRESSURE STEAM
	OA	OUTSIDE AIR DUCT UP, DOWN		HPR	HIGH PRESSURE RETURN
		RECT. TO ROUND TRANSITION		PC	PUMPED CONDENSATE
		FLEXIBLE CONNECTION (DUCTWORK)		LPS	LOW PRESSURE STEAM
		FLEXIBLE DUCT		AD	ACCESS DOOR
	VD	MANUAL VOLUME DAMPER		AF	ABOVE FINISHED FLOOR
	FD	FIRE DAMPER		APFF	AIRFOIL PLENUM FAN
	MOD	MOTOR OPERATED DAMPER		AHU	AIR HANDLING UNIT
	SMD	SMOKE ISOLATION DAMPER		AMS	AIR MONITORING STATION
	CD	COMBINATION FIRE/SMOKE DAMPER		AP	ACCESS PANEL
	SL	ACOUSTICAL DUCT LINING		APD	AIR PRESSURE DROP
		DUCT TRANSITION		ATC	AUTOMATIC TEMPERATURE CONTROL
		CHANGE IN ELEVATION RISE (R); DROP (D)		BBR	BASEBOARD RADIATION
	AMS	AIR MONITORING STATION		BHP	BRAKE HORSEPOWER
	DD	DUCT SMOKE DETECTOR		BTU	BRITISH THERMAL UNIT
		ELBOW W/TURNING VANES		C	CLOSED
		RADIUS ELBOW		CAP	CAPACITY
		PHOENIX VALVE AND HW HEAT COIL		CAV	CONSTANT AIR VOLUME
		POWER ROOF VENTILATOR		CFM	CUBIC FEET PER MINUTE
	T*STAT	THERMOSTAT		CONV	CONVECTOR
		FAN SWITCH		CW	DOMESTIC COLD WATER
		HUMIDISTAT		CHR	CHILLED WATER RETURN
		GATE VALVE		CHS	CHILLED WATER SUPPLY
		GLOBE VALVE		CHR(P)	CHILLED WATER RETURN (PRIMARY)
		BALL VALVE		CHS(P)	CHILLED WATER SUPPLY (PRIMARY)
		BALANCING VALVE		DB	DRY BULB
		MULTI-PURPOSE VALVE		DB	DECIBEL
		CHECK VALVE		Ø	DIAMETER
		BUTTERFLY VALVE		DIFF	DIFFUSER
		3-WAY MODULATING VALVE (ATC)		DWG	DRAWING
		2-WAY MODULATING VALVE (ATC)		EAT	ENTERING AIR TEMPERATURE
	PRV	PRESSURE REDUCING VALVE		EF	EXHAUST FAN
		NEEDLE VALVE		EFF	EFFICIENCY
		PRESSURE RELIEF OR SAFETY VALVE		ELECT. CHAR.	ELECTRICAL CHARACTERISTICS
	HED	HOSE END DRAIN VALVE		EMS	ENERGY MANAGEMENT SYSTEM
		STRAINER W/HOSE END DRAIN VALVE & CAP		ESP	EXTERNAL STATIC PRESSURE
		COMBINATION BALANCING/SHUT-OFF VALVE		EX	EXISTING
		AUTOMATIC AIR VENT		ETR	EXISTING TO REMAIN
		MANUAL AIR VENT		EXH	EXHAUST
		FLOW METER FITTING		EWT	ENTERING WATER TEMPERATURE
		UNION		F	FAN
		FLANGE		°F	DEGREES FAHRENHEIT
		CONCENTRIC REDUCER		FOB	FLAT ON BOTTOM
		ECCENTRIC REDUCER		FOT	FLAT ON TOP
		FLEXIBLE CONNECTION (PIPING)		FPM	FEET PER MINUTE
		THERMOMETER		FT H ₂ O	FEET WATER GAUGE
		PRESSURE GAUGE W/NEEDLE VALVE		FTR	FINNED TUBE RADIATION
		TEMPERATURE SENSOR		FZ	FREEZESTAT
		STATIC PRESSURE GAUGE		G	NATURAL GAS
	DP	DIFFERENTIAL PRESSURE CONTROLLER		GPM	GALLONS PER MINUTE
	DPT	DIFFERENTIAL PRESSURE TRANSMITTER		HP	HORSEPOWER
	AFC	AUTOMATIC FLOW CONTROL VALVE		HPU	HEAT PUMP UNIT
	FS	FLOW SWITCH		HUR	HEAT RECOVERY UNIT
	SPC	STATIC PRESSURE CONTROLLER		HR	HEATING WATER RETURN
		EXPANSION LOOP		HS	HEATING WATER SUPPLY
		SOLENOID VALVE		HR(P)	HEATING WATER RETURN (PRIMARY)
	UH	UNIT HEATER		HS(P)	HEATING WATER SUPPLY (PRIMARY)
		PIPE ALIGNMENT GUIDE		RL	REFRIGERANT LIQUID
		PIPE ANCHOR		RS	REFRIGERANT SUCTION
	F&T	FLOAT AND THERMOSTATIC TRAP		HT	HEIGHT
		PIPE-TURN DOWN		HWG	HOT WATER GENERATOR
		PIPE-TURN UP		HZ	HERTZ
		PIPE-TURN DOWN (DOUBLE LINE PIPE)		IN H ₂ O	INCHES WATER GAUGE
		PIPE-TURN UP (DOUBLE LINE PIPE)		KW	KILOWATT
		PIPE TEE UP		LAT	LEAVING AIR TEMPERATURE
		PIPE TEE DOWN		LBS	POUNDS
		END CAP		LF	LINEAR FOOT
		DIRECTION OF FLOW		LWT	LEAVING WATER TEMPERATURE
		BLIND FLANGE		MAX	MAXIMUM
	P/T	PRESSURE/TEMPERATURE PORT		MBH	BTU PER HOUR (THOUSAND)
		CONNECT TO EXISTING		MIN	MINIMUM
		DEMOLITION ENDS HERE		NC	NOISE CRITERIA
		DRAWING NOTE DESIGNATION		N.C.	NORMALLY CLOSED
		AIR DEVICE DESIGNATION		No.	NUMBER
				N.O.	NORMALLY OPEN
				OAF	OUTSIDE AIR FAN
				OAT	OUTSIDE AIR TEMPERATURE
				O/C	ON CENTER
				OED	OPEN END DUCT
				P	PUMP
				PA	PRIMARY AIR
				PD	PRESSURE DROP
				PSI	POUNDS PER SQUARE INCH
				RAF	RETURN AIR FAN
				REG	REGISTER
				REQ'D	REQUIRED
				RPM	REVOLUTIONS PER MINUTE
				RX	REMOVE EXISTING
				SAF	SUPPLY AIR FAN
				SB	STAND-BY
				SENS	SENSIBLE
				SP	STATIC PRESSURE
				SPLY	SUPPLY
				SQ	SQUARE
				SS	STAINLESS STEEL
				STD	STANDARD
				SWT	SUPPLY WATER TEMPERATURE
				TCU	TERMINAL CONTROL UNIT
				TEMP	TEMPERATURE
				TONS	TONS OF REFRIGERATION
				V	VOLTS
				VAV	VARIABLE AIR VOLUME
				VEL	VELOCITY
				VSD	VARIABLE SPEED DRIVE
				WITH	WITH
				WB	WET BULB
				WG	WATER GAUGE
				WPD	WATER PRESSURE DROP
				WSHP	WATER SOURCE HEAT PUMP
				ΔT	TEMPERATURE DIFFERENCE
				%	PERCENT
				∅	ELECTRICAL PHASE

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ALBAN ENGINEERING
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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No.: 45531, Expiration Date: 6/3/2024.

PROFESSIONAL SEAL:

PRINTS ISSUED

NO.	DESCRIPTION:	DATE:
CD	COORDINATION SET	12/01/2023
CD	90% SET	12/19/2023
	BID DOCUMENTS	04/08/2024

LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING

ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:

MECHANICAL LEGEND & ABBREVIATION

PROJECT NO: 23010	
DATE: 04/08/2024	
SCALE: As Indicated	
DRAWN BY: ALBAN ENGINEERING	
CHECKED BY: ALBAN ENGINEERING	
SHEET NO:	

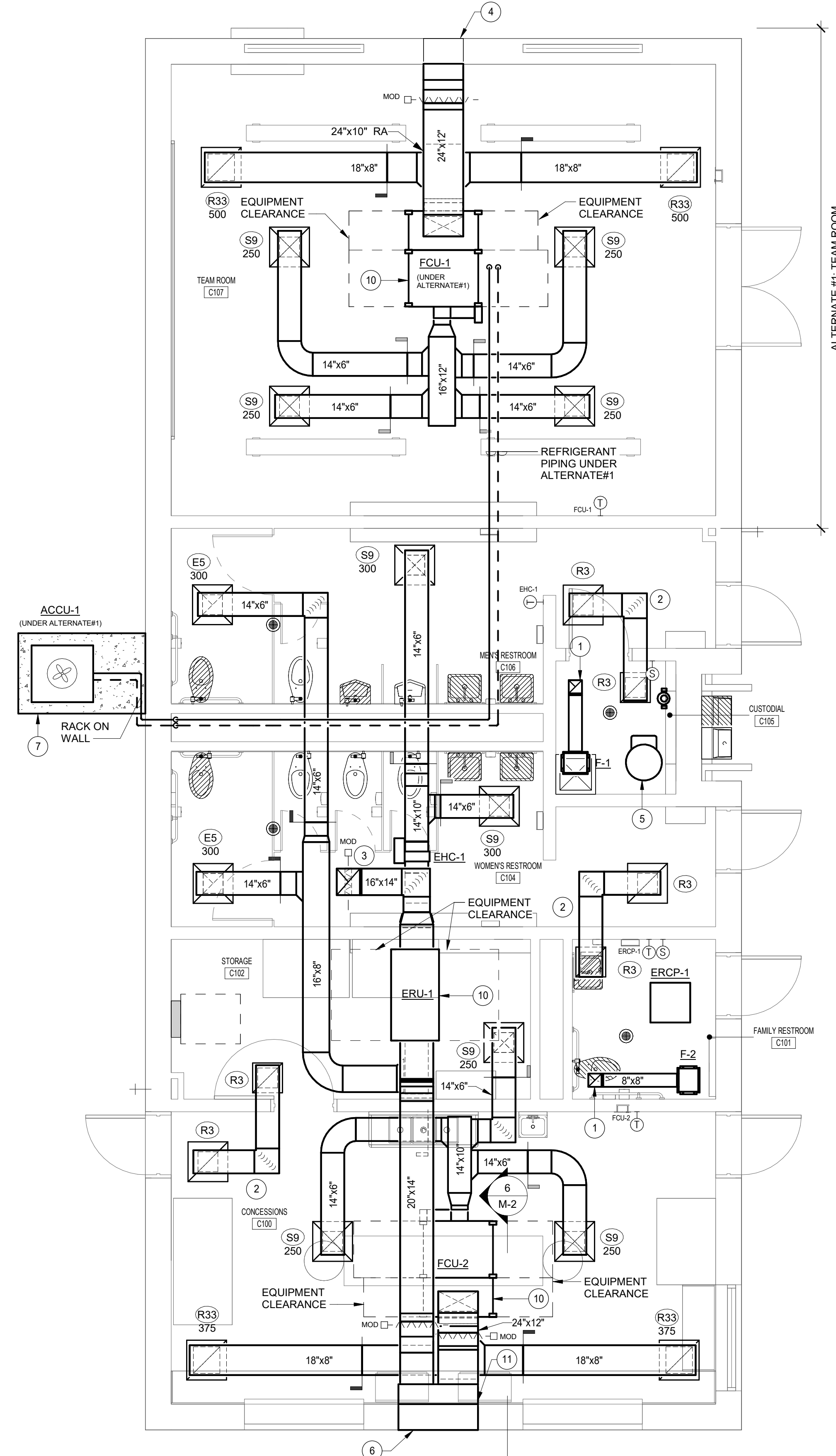
M-1

GENERAL NOTES:

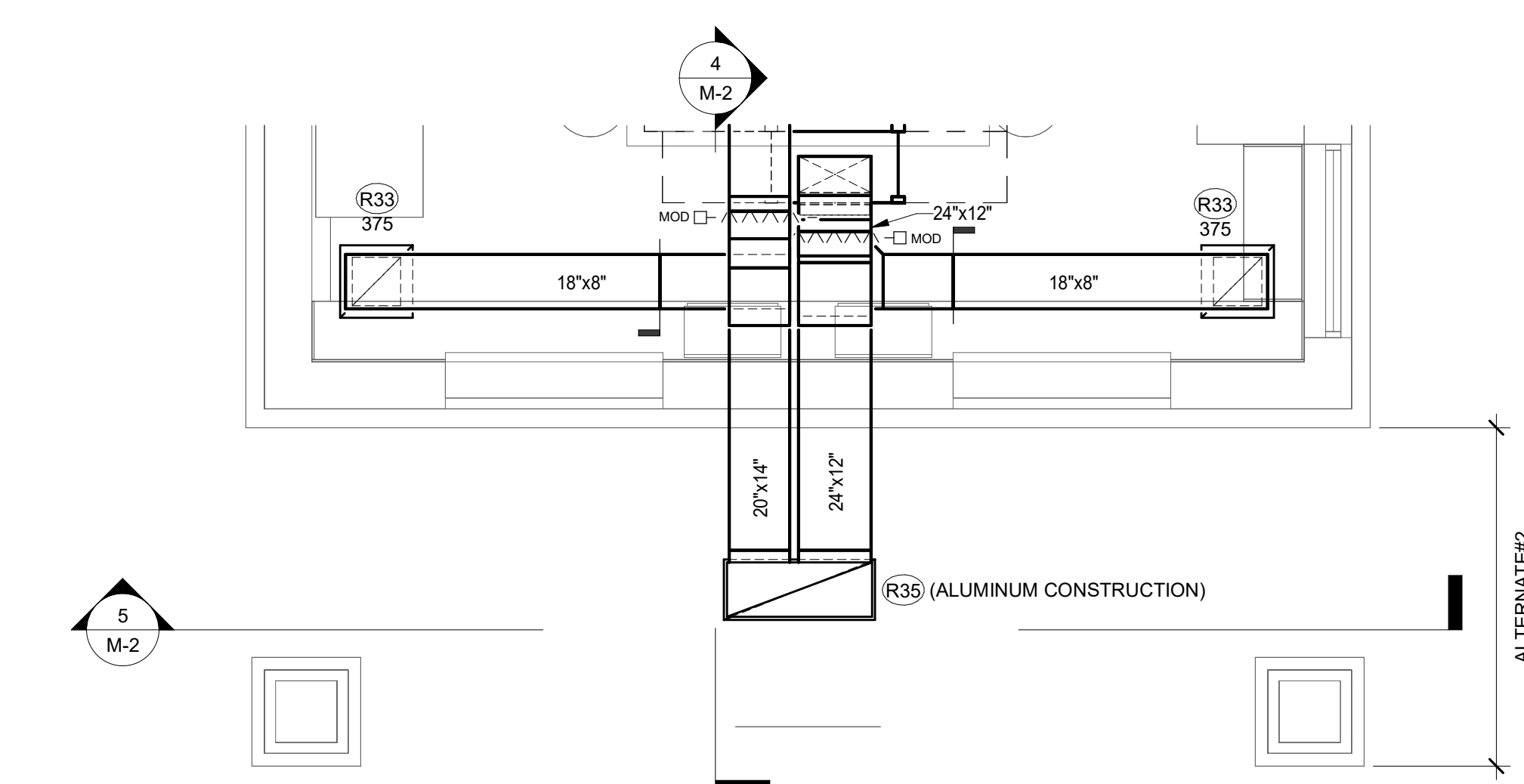
1. THE MECHANICAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE WOOD TRUSS MANUFACTURER FOR DUCTWORK AND EQUIPMENT INSTALLATION REQUIREMENTS PRIOR TO THE FABRICATION OF THE WOOD TRUSSES.
2. ALL DUCTWORK SHALL BE PROVIDED WITH 2" THICK, 1.00 PCF, R6 INSULATION.

DRAWING NOTES:

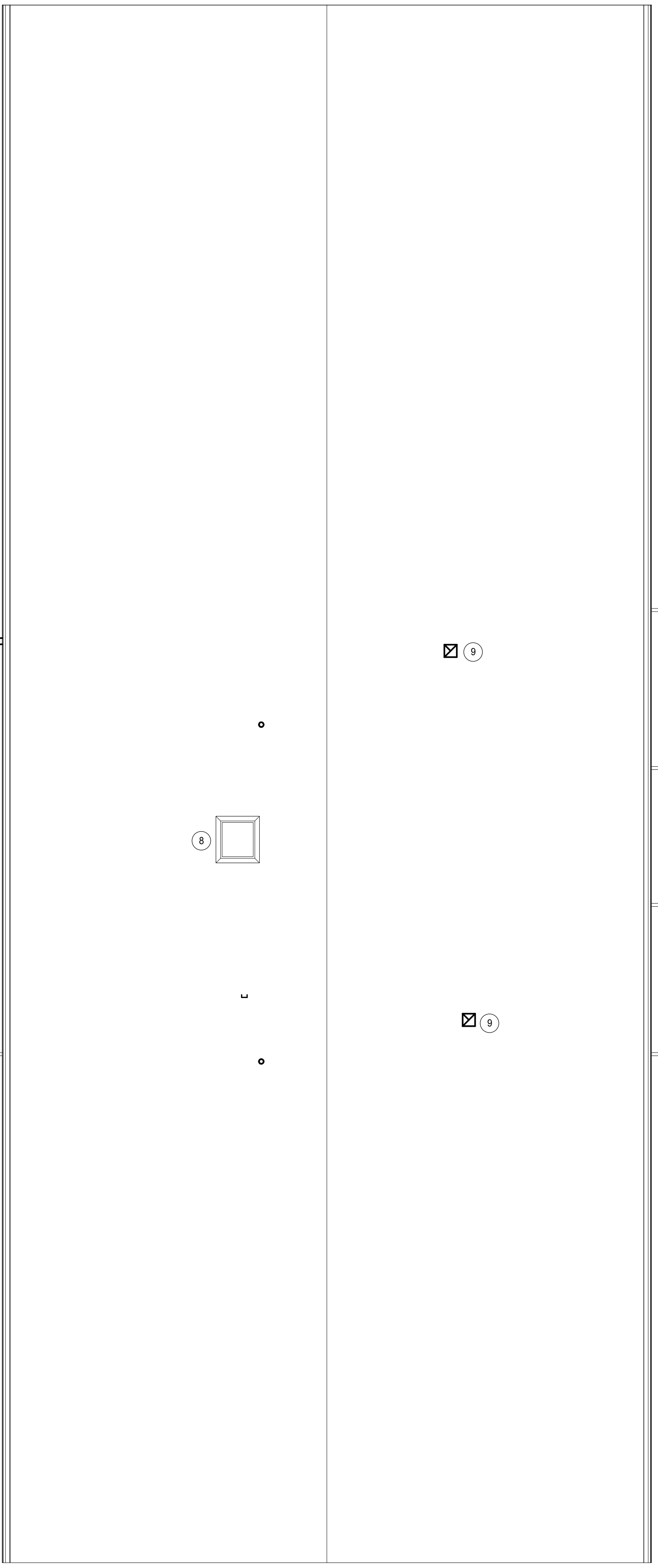
- 1 8"x8" E/A DUCT UP THROUGH ROOF TO GOOSENECK.
- 2 14"x8" SOUNDLINED TRANSFER AIR DUCT.
- 3 16"x14" E/A DUCT UP W/MOD TO GRAVITY RELIEF VENT ON ROOF.
- 4 24" x 24" LOUVER. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
- 5 ELECTRIC WATER HEATER. REFER TO PLUMBING DRAWINGS.
- 6 48" x 36" LOUVER UNDER BASE BID. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
- 7 6" CONCRETE HOUSEKEEPING PAD.
- 8 GRAVITY RELIEF VENT
 LOUVERED TYPE
 16"x14" THROAT
 30"x28"x12"
 600 CFM @ 386 FPM
 0.023" MAX APD
 GREENHECK MODEL WRH OR EQUAL
- 9 GOOSENECK.
- 10 FCU/ERU SUPPORTED FROM STRUCTURE.
- 11 48" Lx36" Hx12" DEEP PLENUM BOX CONNECT FULL SIZE TO LOUVER.



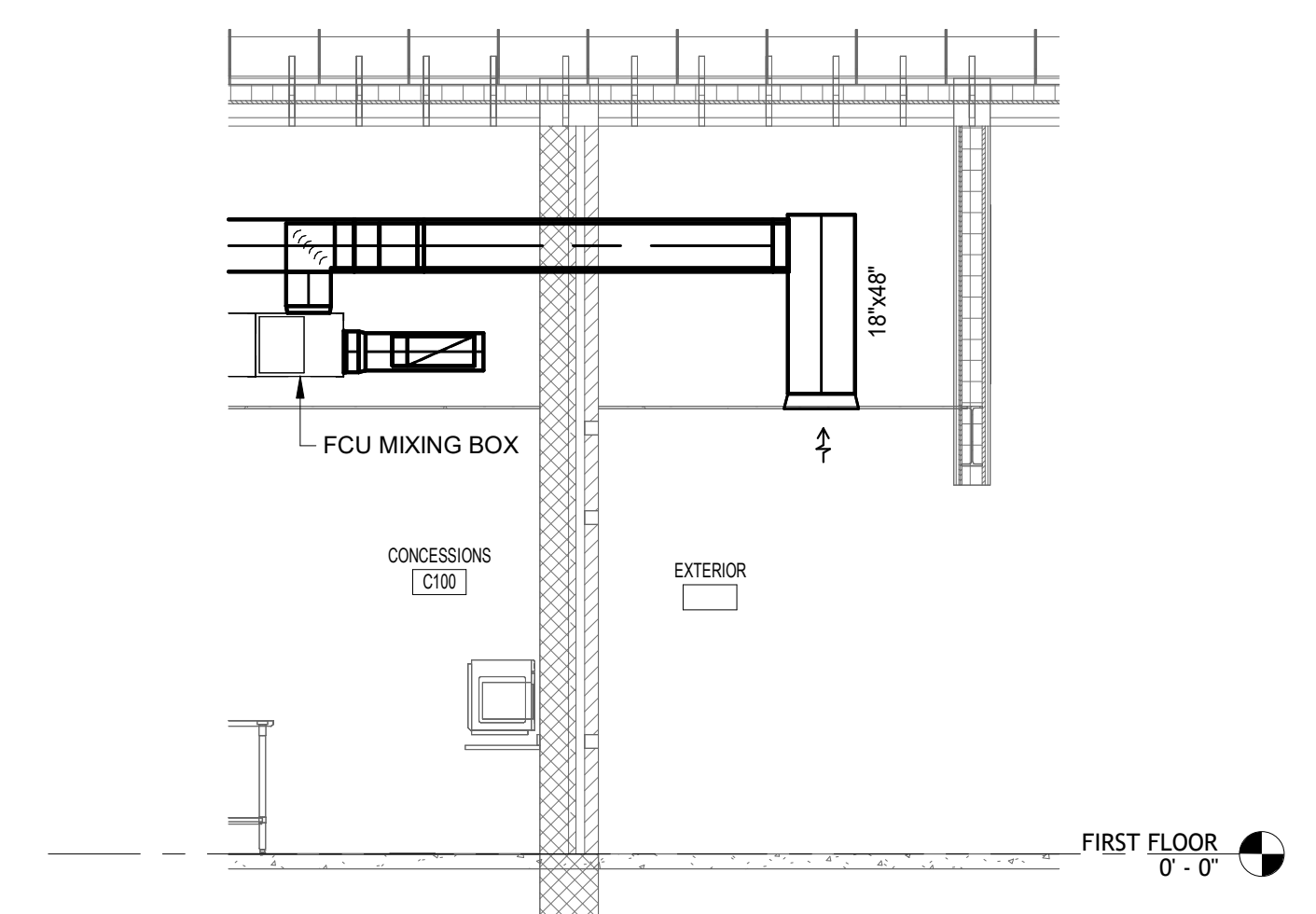
FIRST FLOOR PLAN
 1/4" = 1'-0"



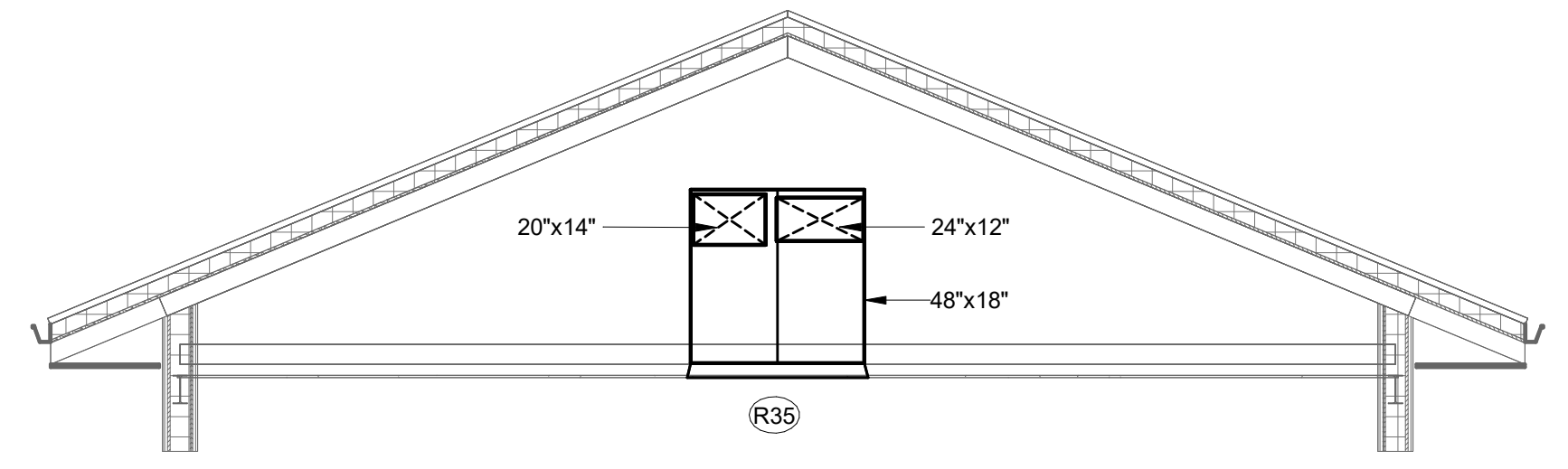
FIRST FLOOR PLAN - ALTERNATE#2
 1/4" = 1'-0"



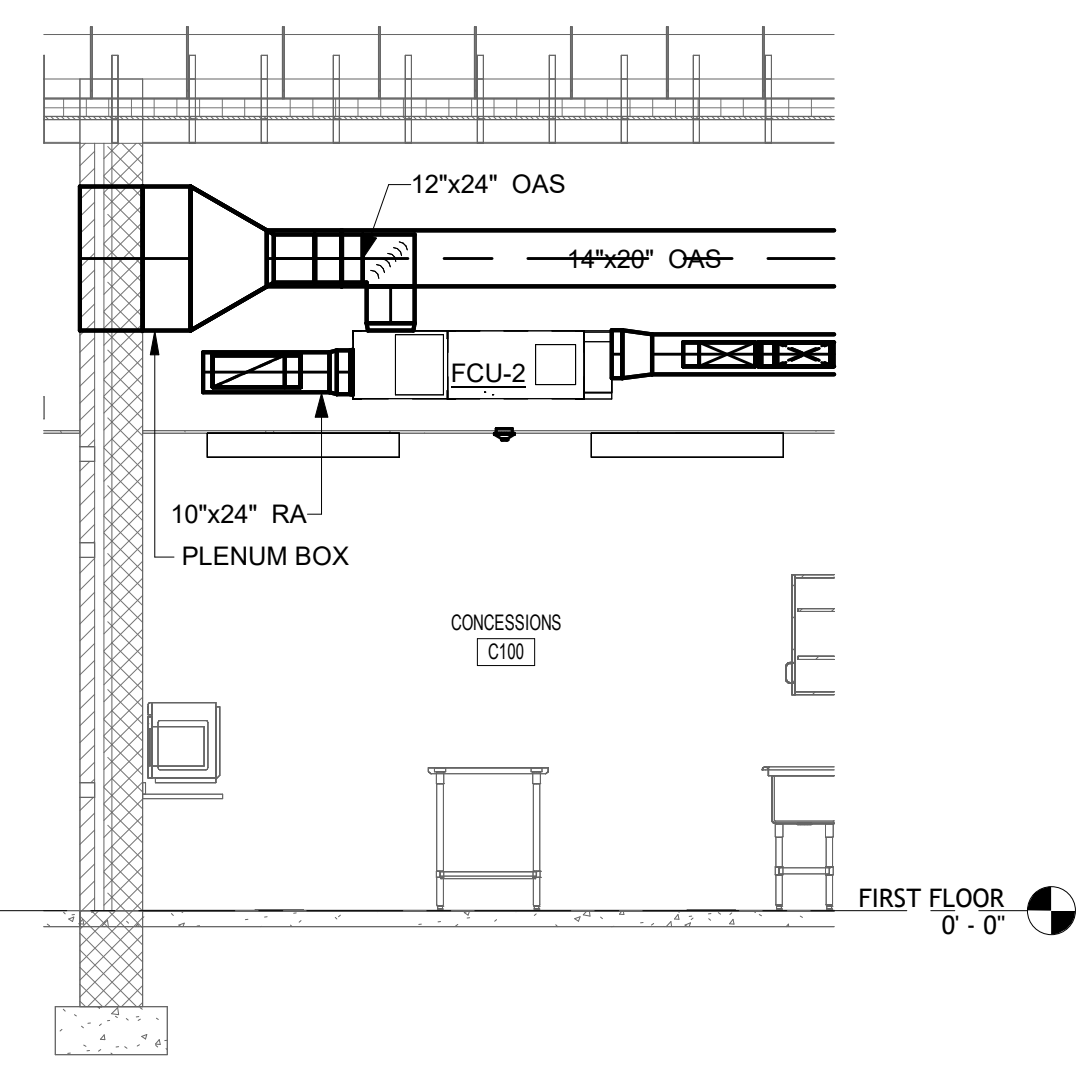
ROOF PLAN
 1/4" = 1'-0"



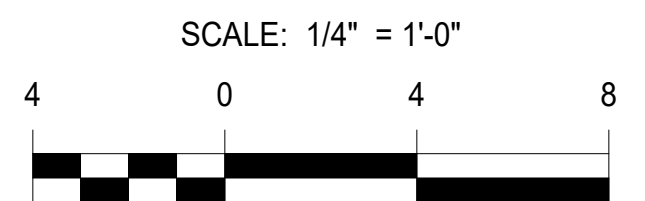
Section 1
 1/4" = 1'-0"



Section 2
 1/4" = 1'-0"



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



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland. License No.: 45531, Expiration Date: 6/3/2024.

PROFESSIONAL SEAL:

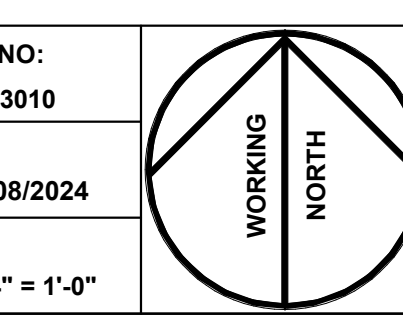
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NO.	DESCRIPTION:	DATE:
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CD	90% SET	12/19/2023
BID	DOCUMENTS	04/08/2024

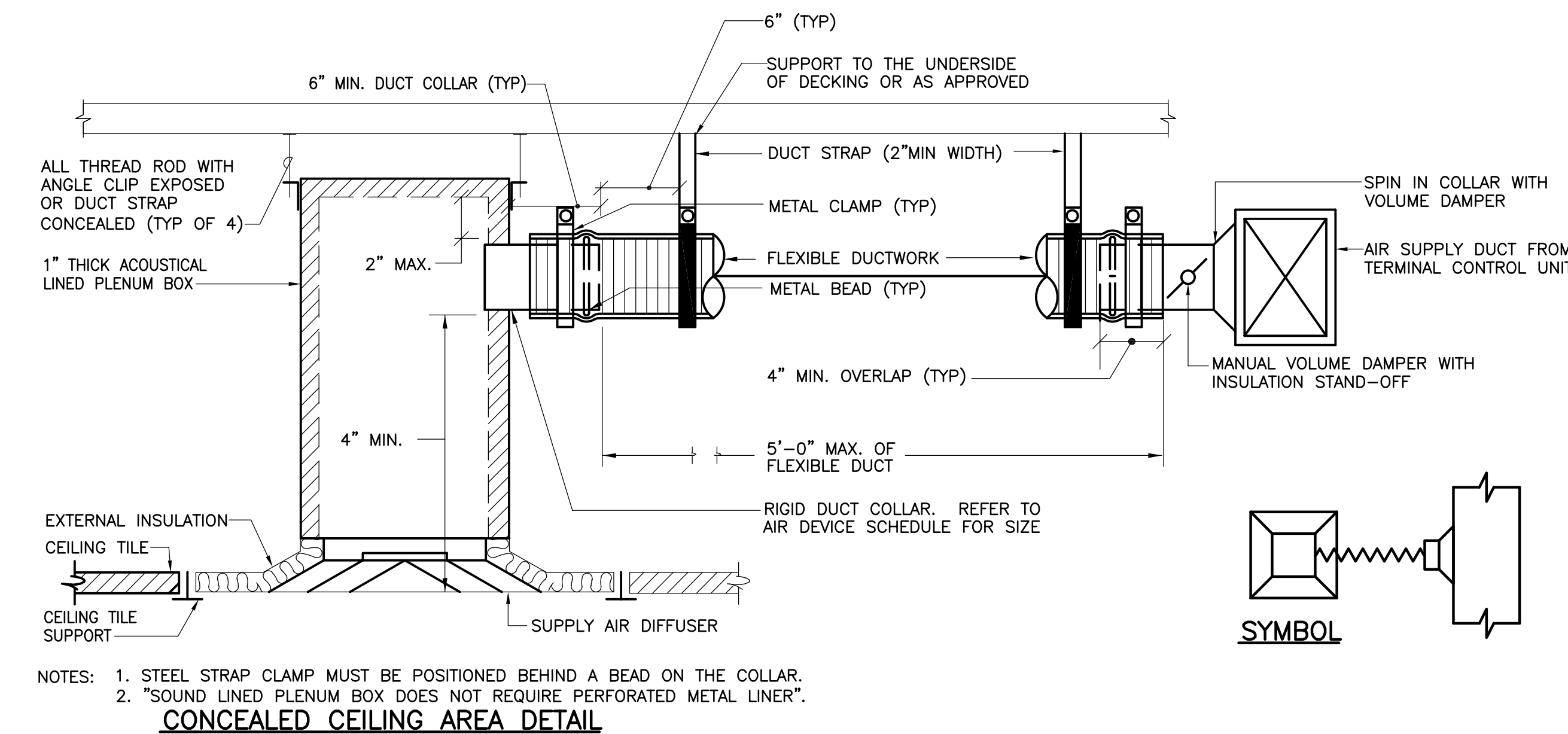
LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING
ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:
MECHANICAL FLOOR & ROOF PLANS

PROJECT NO:	23010
DATE:	04/08/2024
SCALE:	1/4" = 1'-0"
DRAWN BY:	Author
CHECKED BY:	Checker
SHEET NO:	

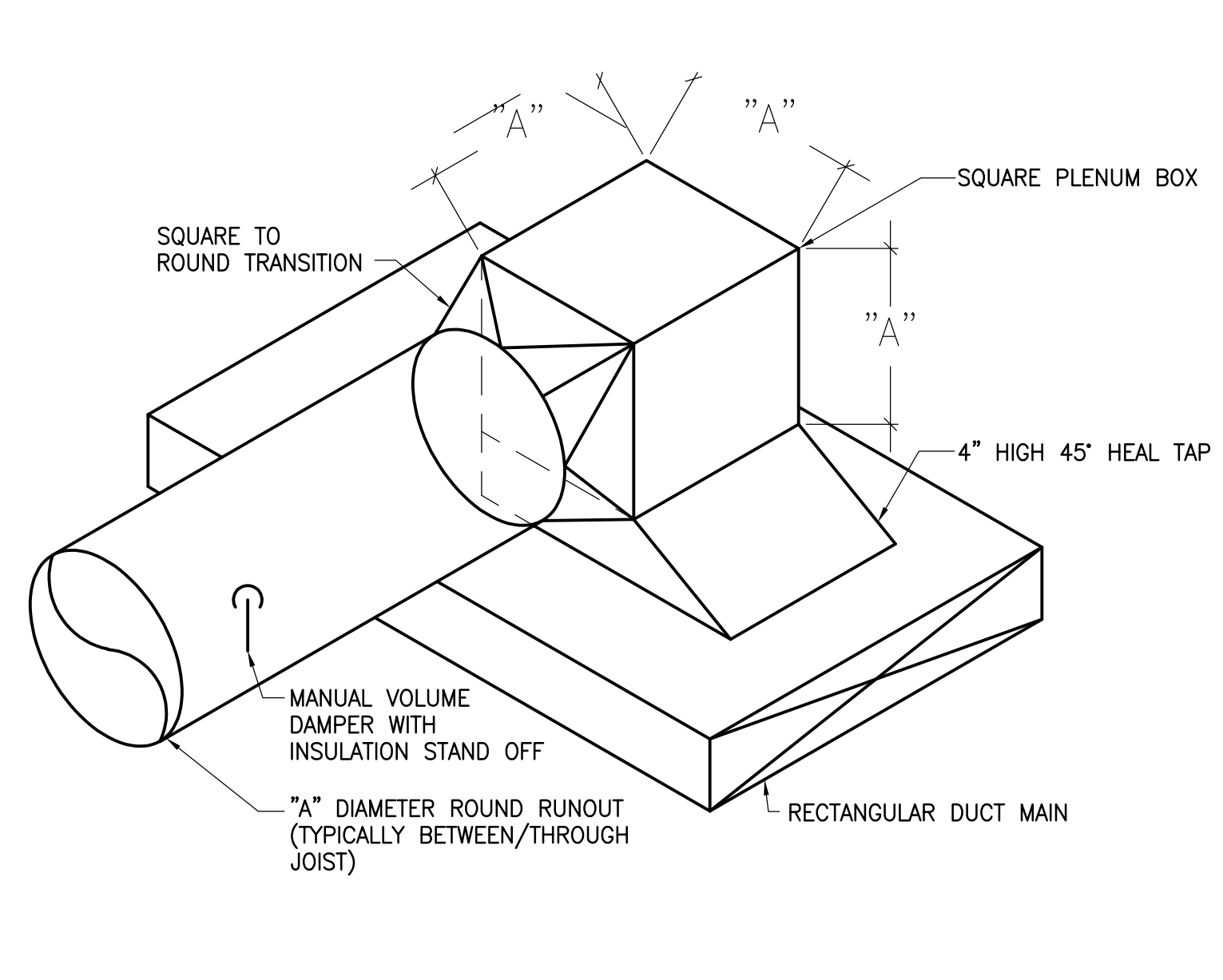


M-2



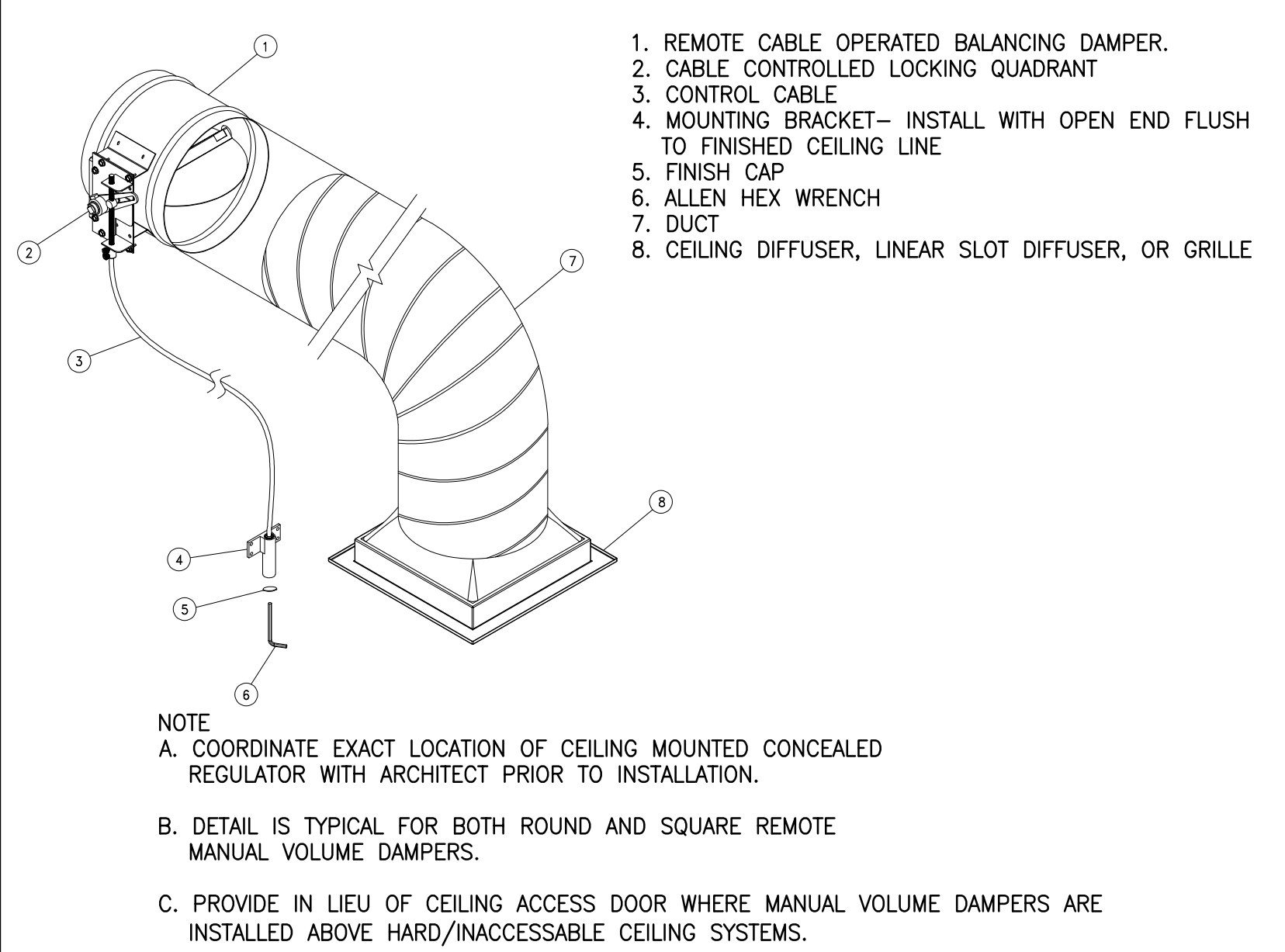
1 TYPICAL SUPPLY AIR DEVICE INSTALLATION DETAIL

SCALE: NONE



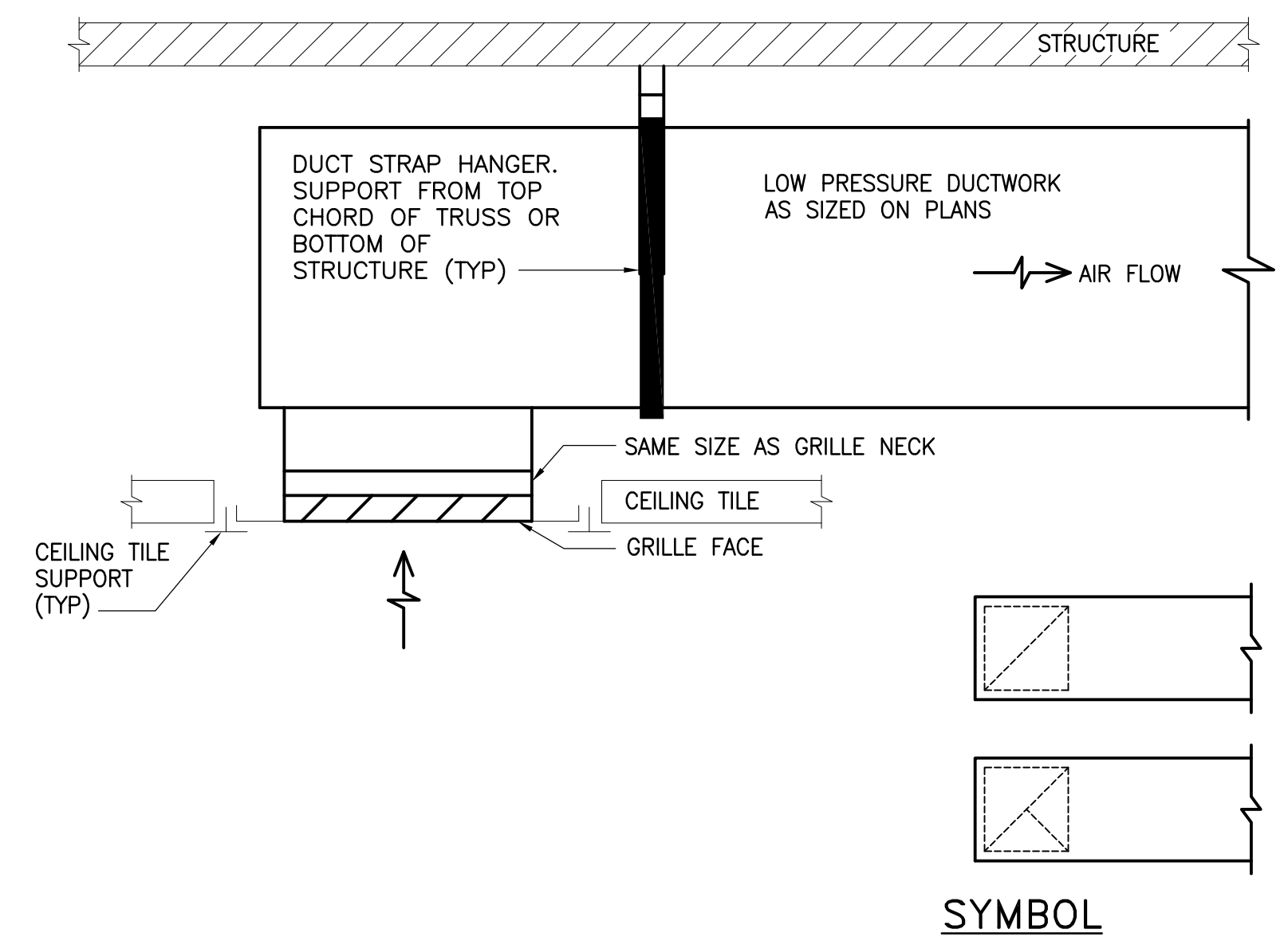
2 TYPICAL SUPPLY/RETURN AIR RUNOUT DETAIL

SCALE: NONE



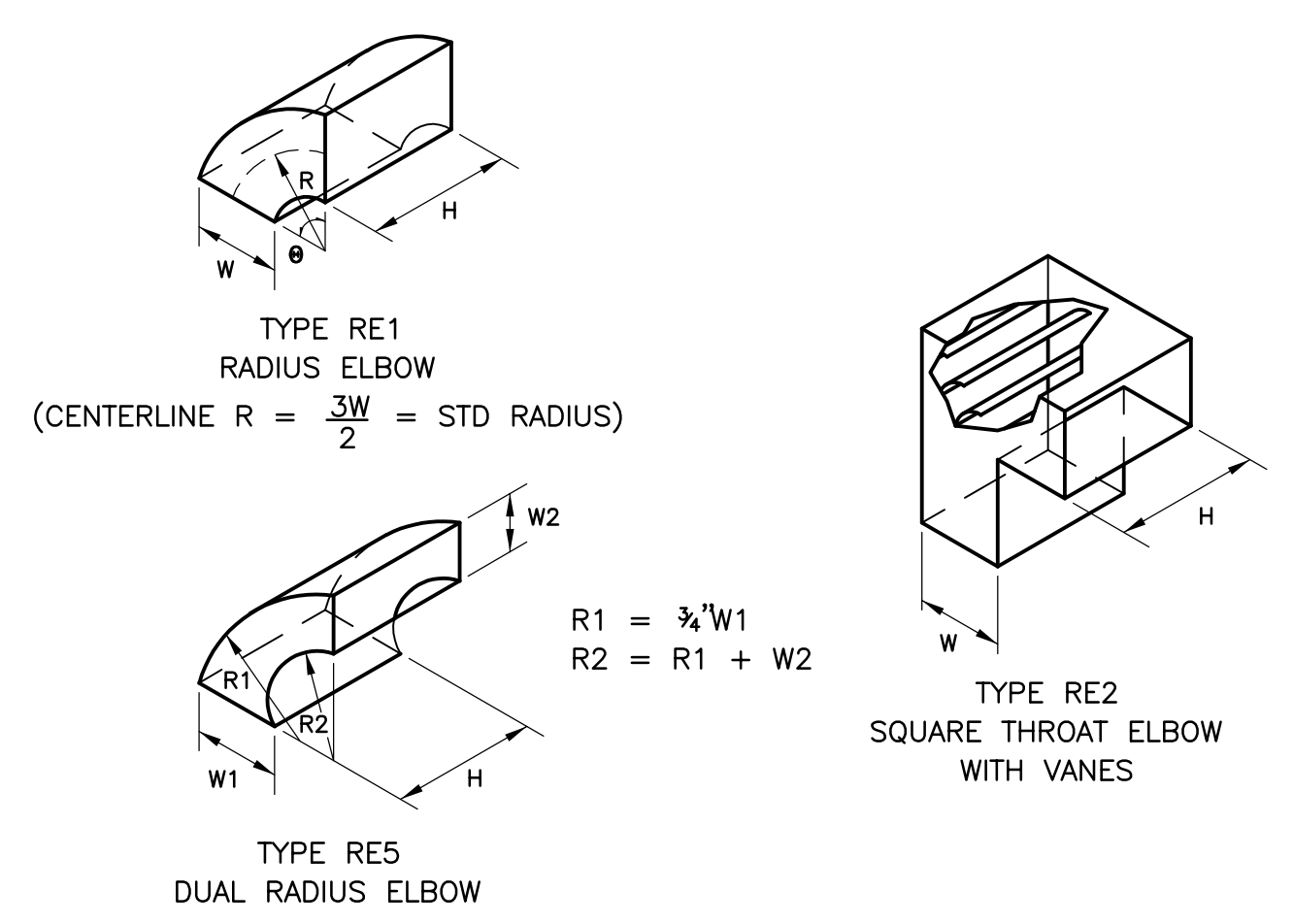
3 TYPICAL REMOTE MANUAL VOLUME DAMPER DETAIL

SCALE: NONE



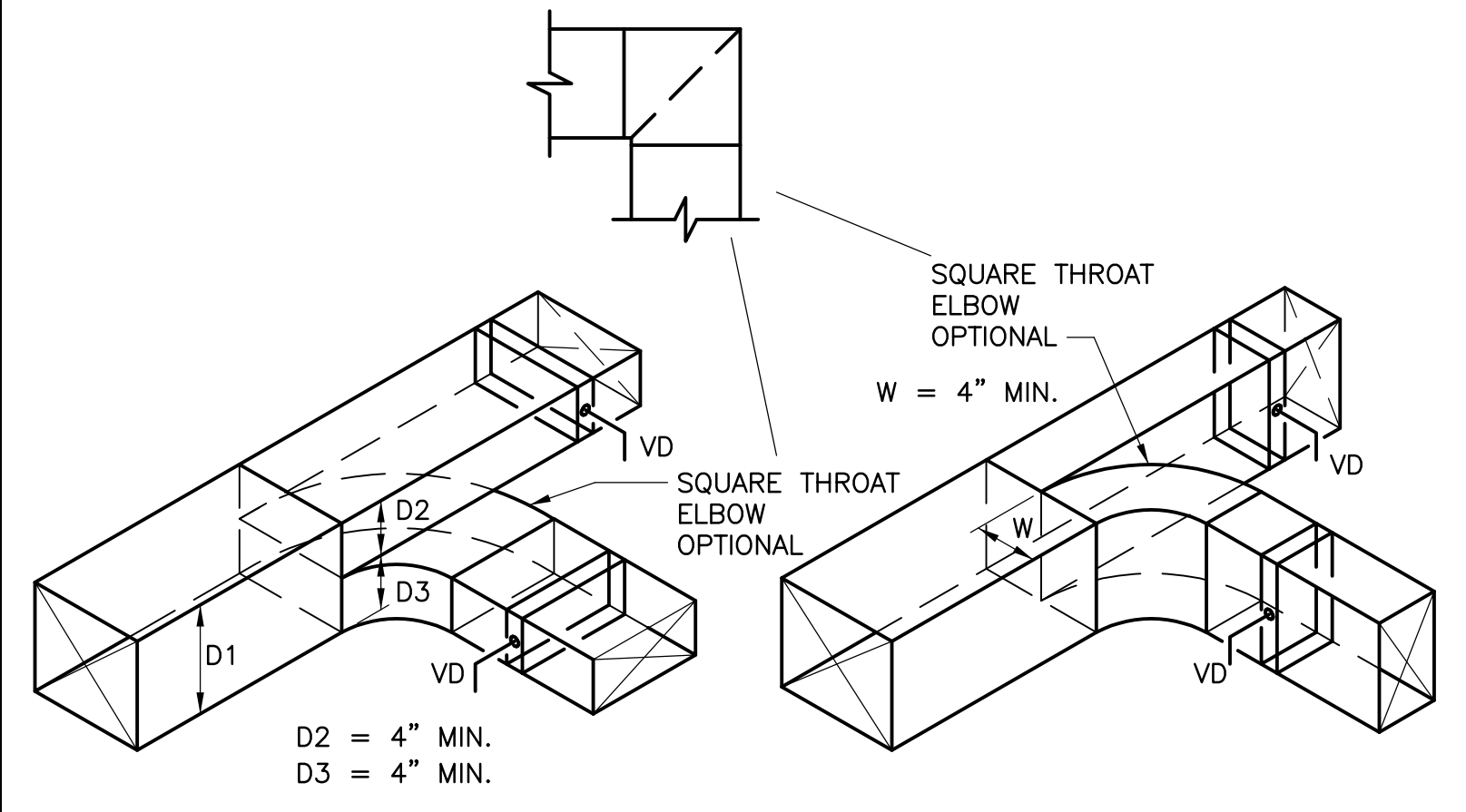
4 TYPICAL CEILING RETURN AND EXHAUST AIR DEVICE DETAIL

SCALE: NONE



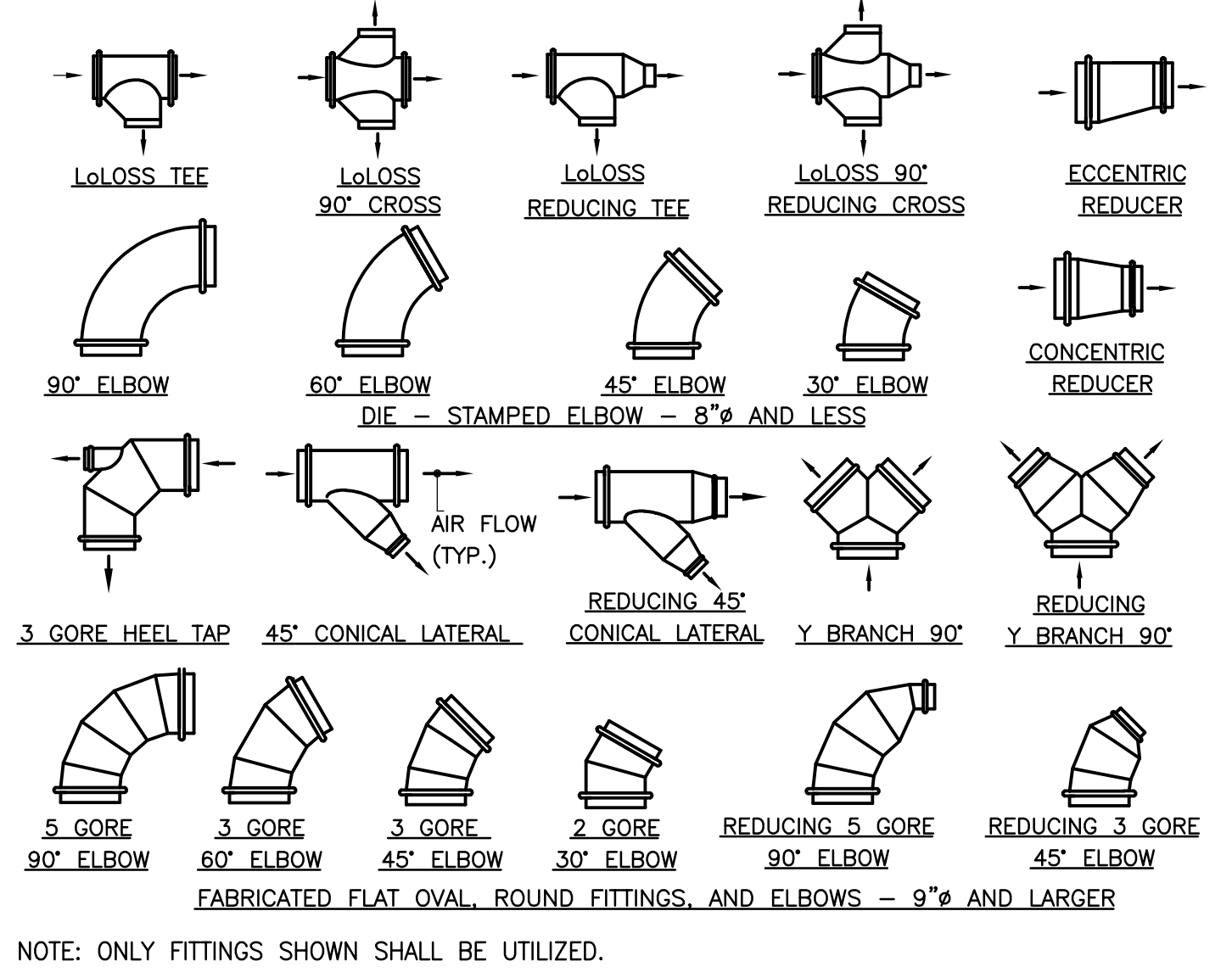
5 TYPICAL RECTANGULAR DUCT CONSTRUCTION DETAIL

SCALE: NONE



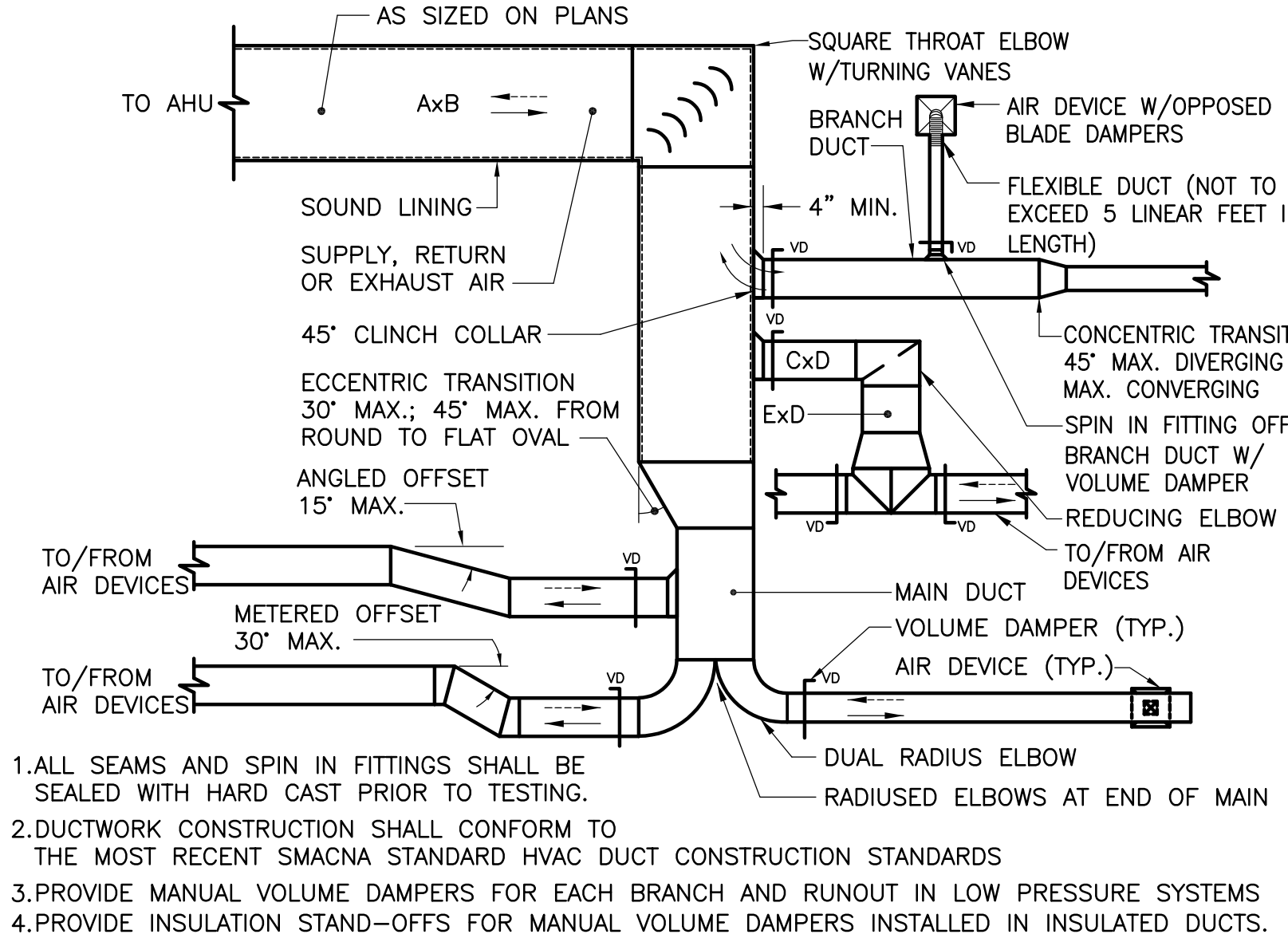
6 PARALLEL FLOW BRANCHES DETAIL

SCALE: NONE



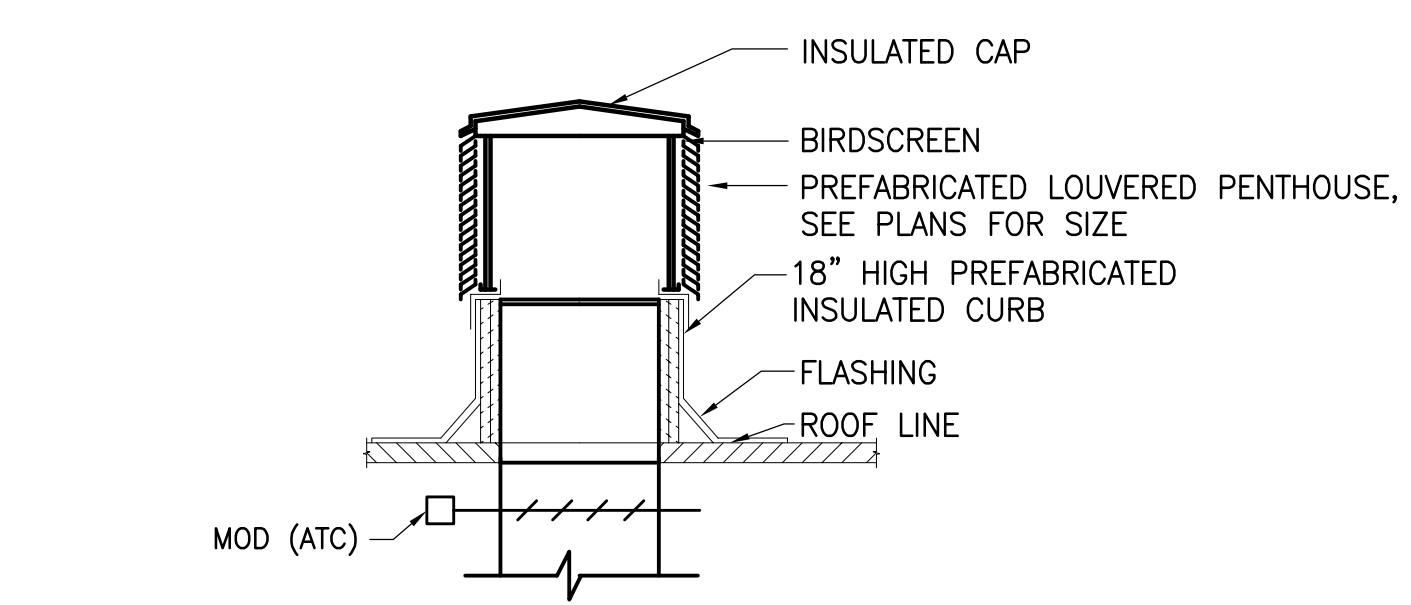
7 TYPICAL DUCT FITTINGS DETAIL

SCALE: NONE



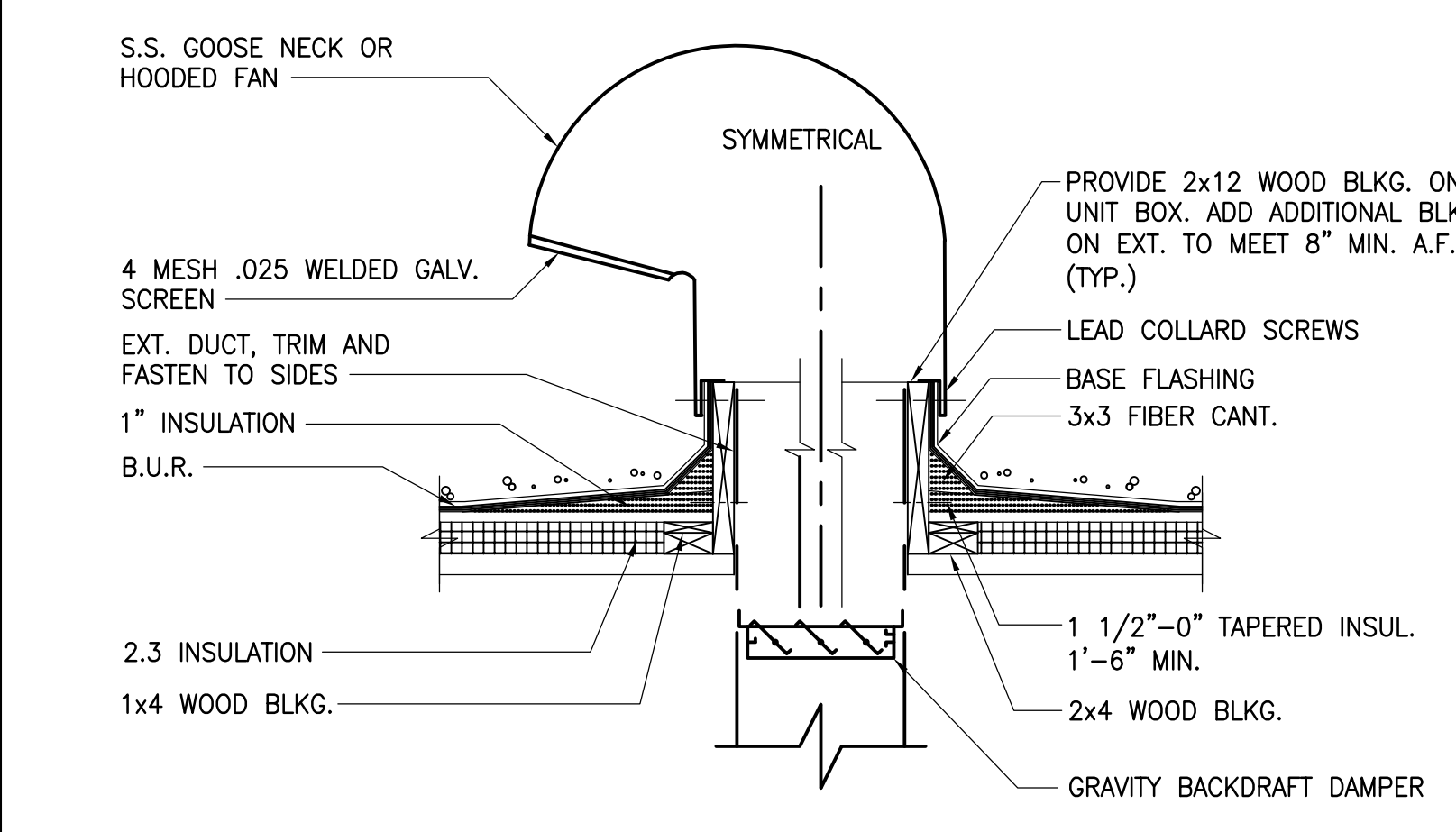
8 TYPICAL SUPPLY, EXHAUST, OR RETURN DUCT OFFSET AND TRANSITION DETAIL

SCALE: NONE



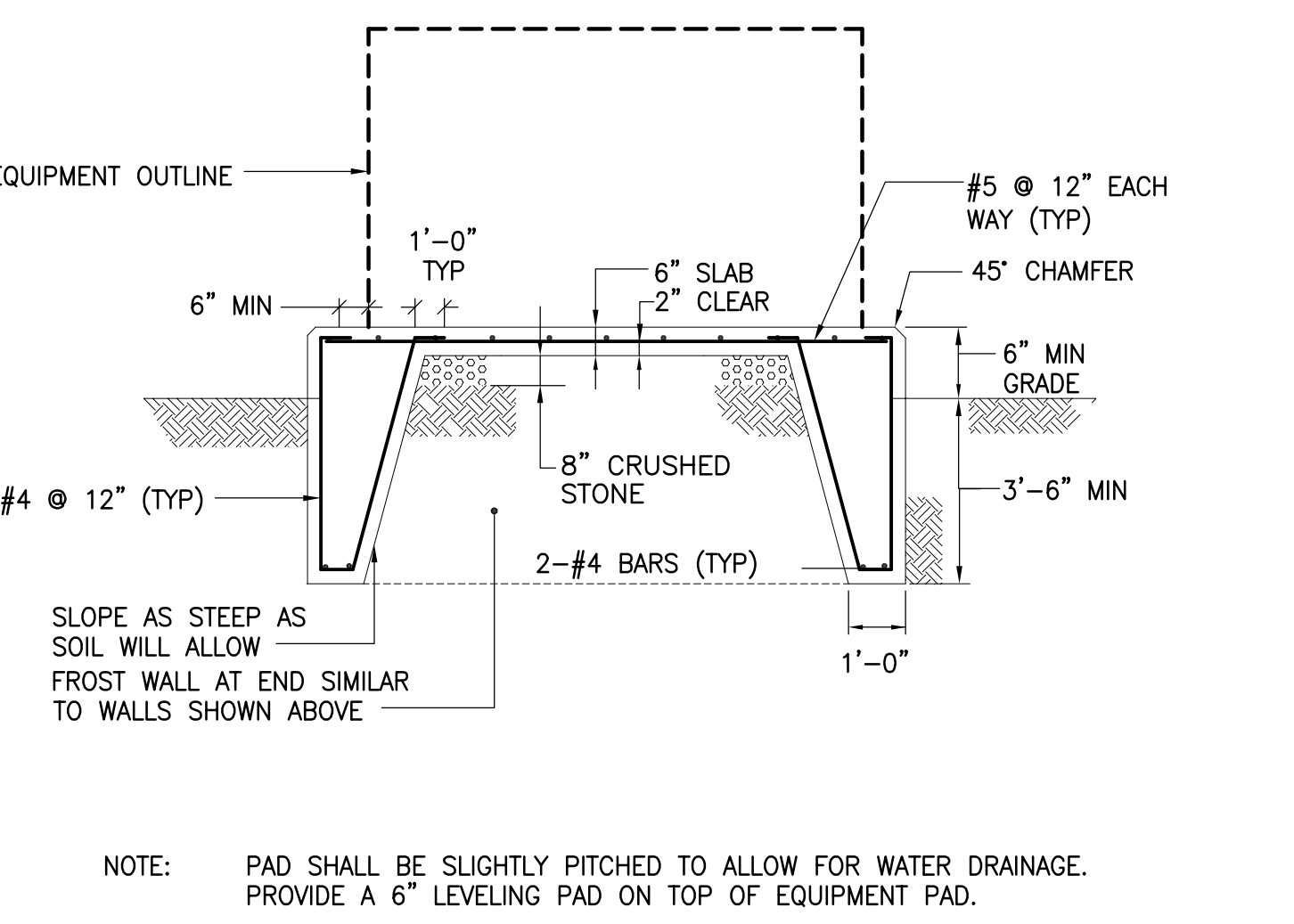
9 TYPICAL RELIEF/INTAKE DETAIL

SCALE: NONE



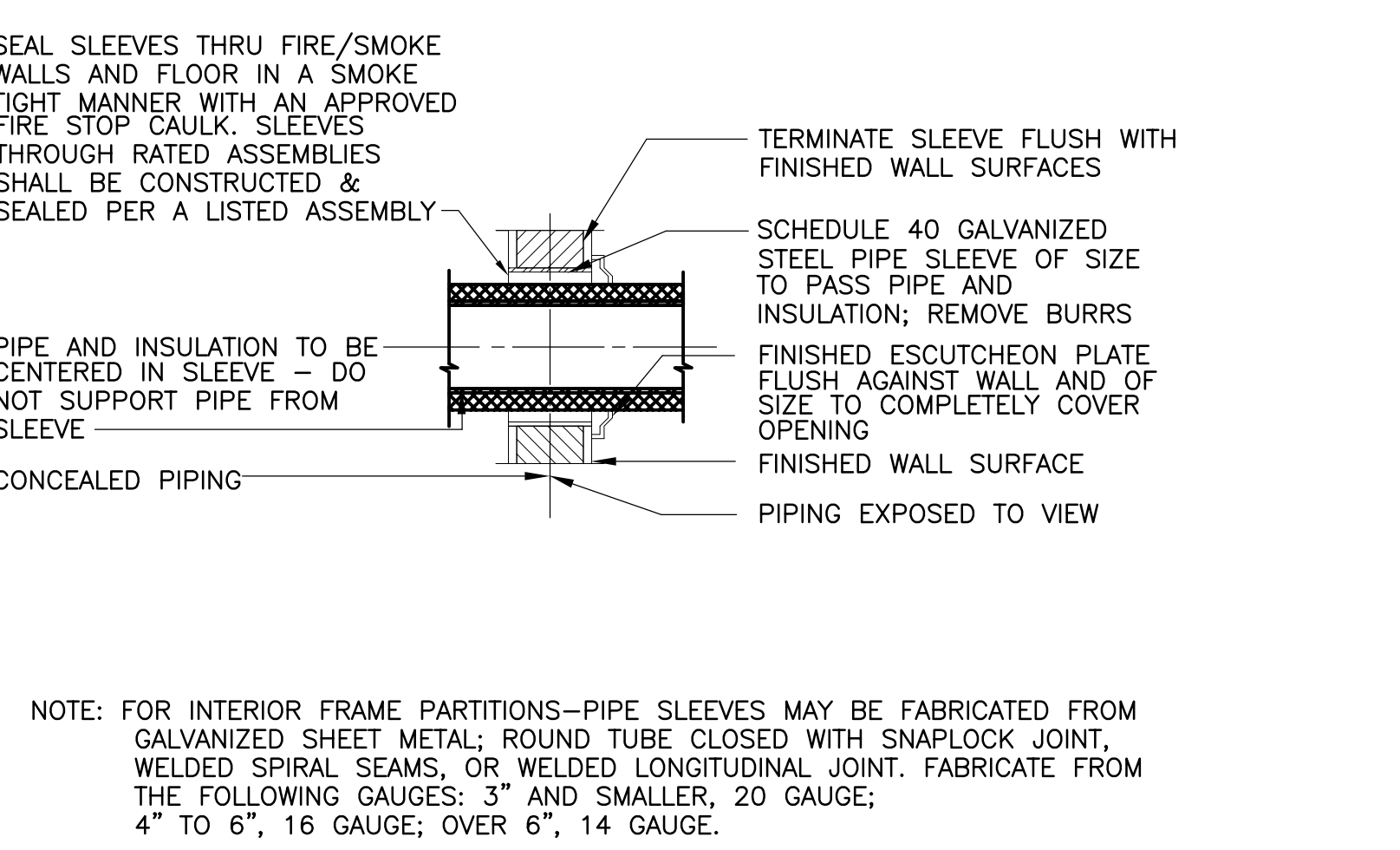
10 TYPICAL GOOSENECK DETAIL

SCALE: NONE



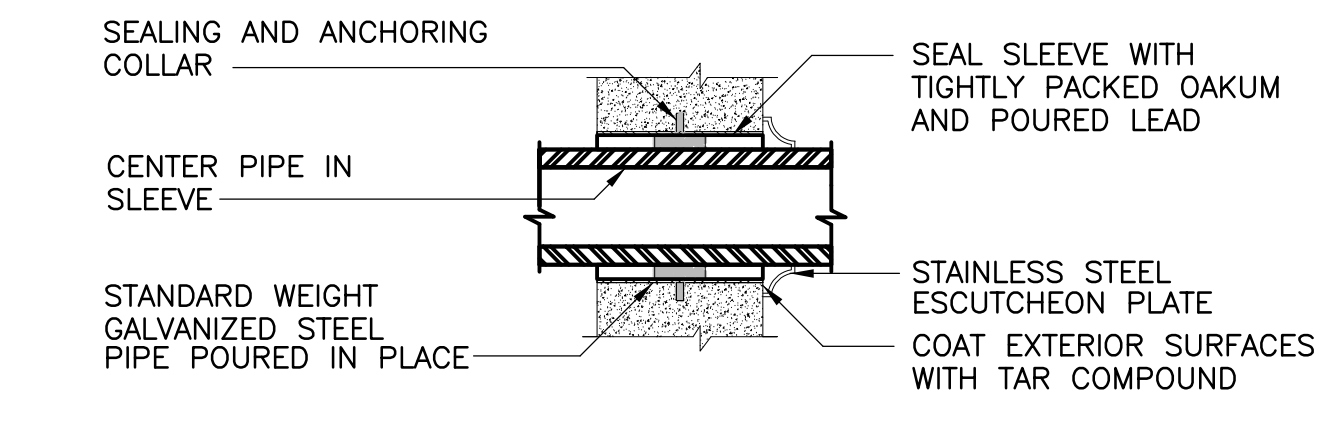
11 CONCRETE EQUIPMENT PAD DETAIL

SCALE: NONE



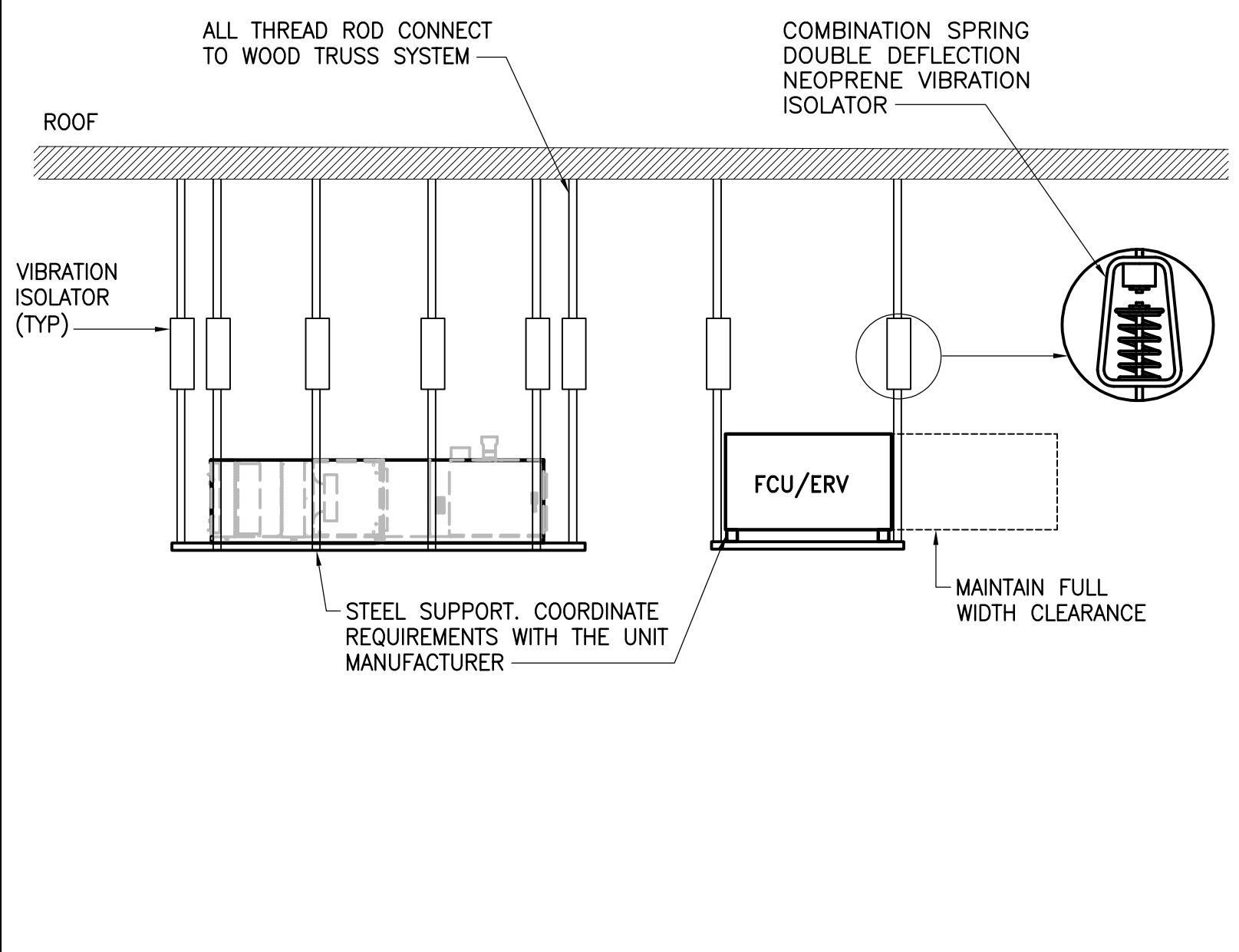
12 TYPICAL PIPE SLEEVE THRU INTERIOR WALL DETAIL

SCALE: NONE



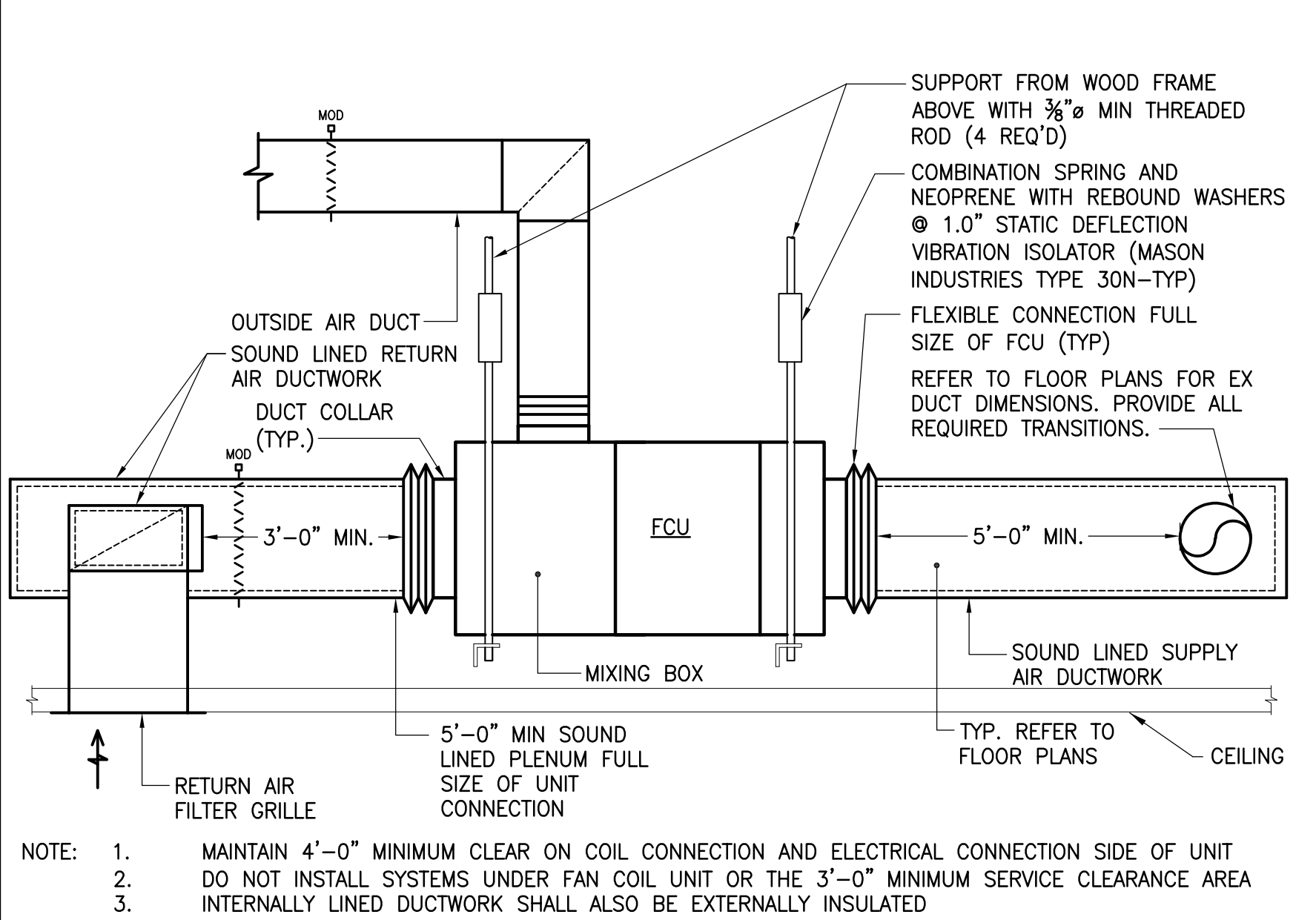
13 TYPICAL PIPE SLEEVE THRU EXTERIOR WALL ABOVE GRADE DETAIL

SCALE: NONE



14 INDOOR UNIT SUPPORT DETAIL

SCALE: NONE



15 TYPICAL HORIZONTAL FCU MOUNTING DETAIL

SCALE: NONE

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ALBAN ENGINEERING
 303 INTERNATIONAL CIRCLE, SUITE 450
 HUNT VALLEY, MD 21030

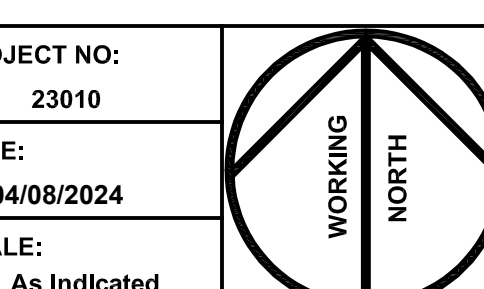
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No.: 45531, Expiration Date: 6/3/2024.

PROFESSIONAL SEAL:

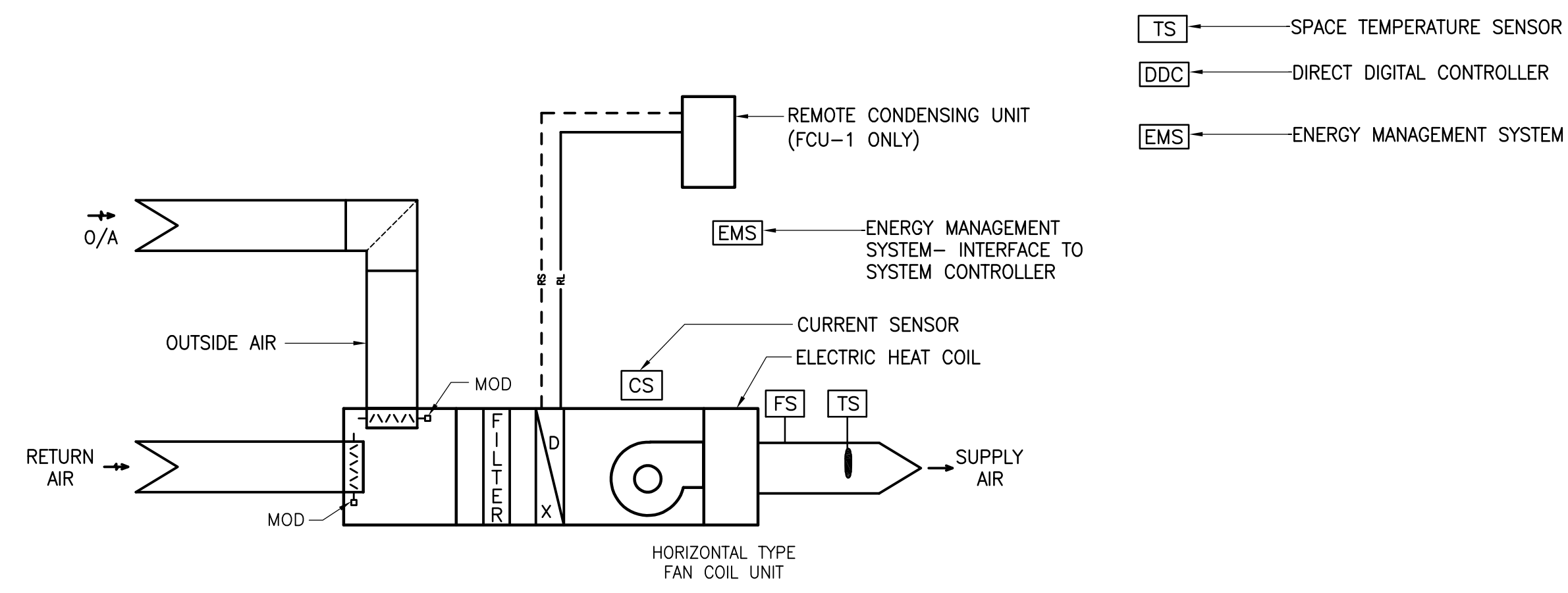
PRINTS ISSUED		
NO.	DESCRIPTION:	DATE:
CD	COORDINATION SET	12/01/2023
CD	90% SET	12/19/2023
BID	DOCUMENTS	04/08/2024

LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING
ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:
MISCELLANEOUS DETAILS
 PROJECT NO: 23010
 DATE: 04/08/2024
 SCALE: As Indicated
 DRAWN BY: ALBAN ENGINEERING
 CHECKED BY: ALBAN ENGINEERING
 SHEET NO:



M-3

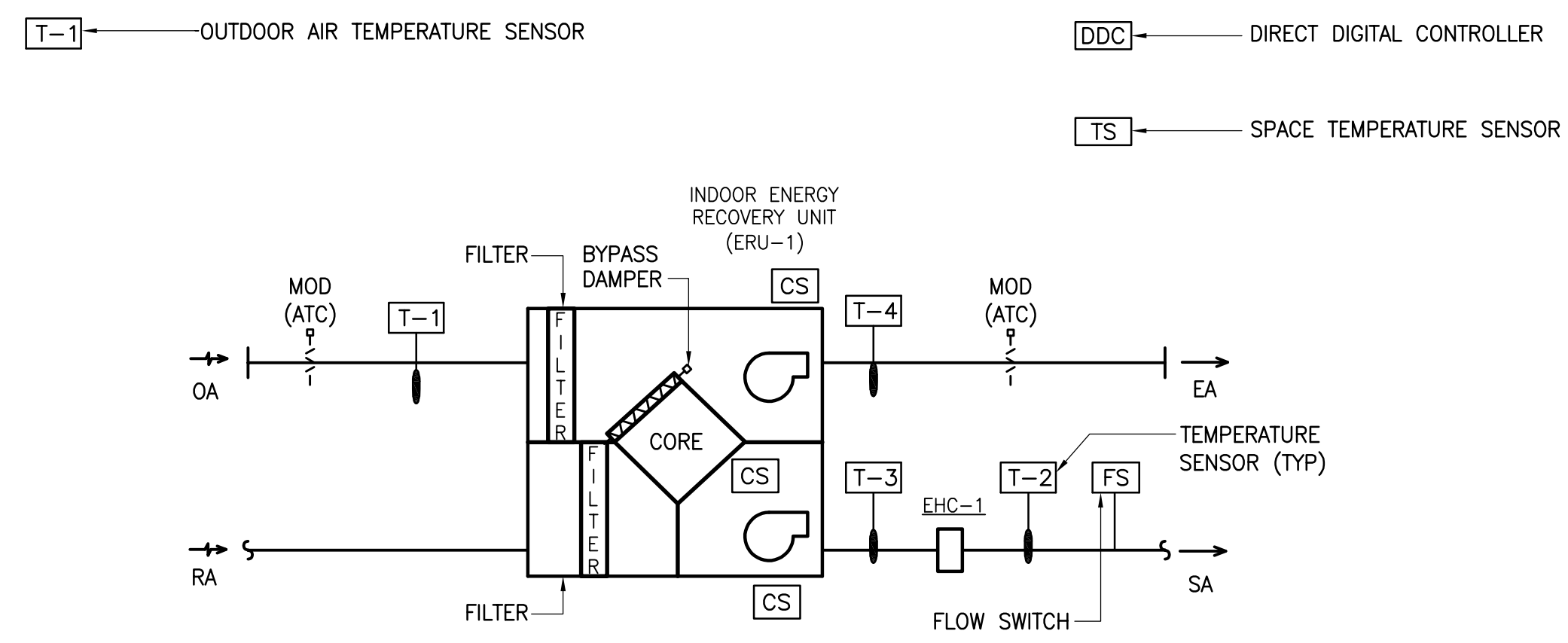


SEQUENCE OF OPERATION

1. OCCUPIED MODE: WHENEVER THE FAN COIL UNIT IS INDEXED TO OCCUPIED MODE BY THE EMS, THE OUTSIDE AIR DAMPER SHALL OPEN AND RETURN AIR DAMPER SHALL MODULATE TO ITS CORRESPONDING POSITION.
2. UNOCCUPIED MODE: WHENEVER THE FAN COIL UNIT IS INDEXED TO UNOCCUPIED MODE BY THE EMS, THE OUTSIDE AIR DAMPER SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN.
3. DAMPER POSITIONS, FAN STATUS, SPACE TEMPERATURE AND SUPPLY AIR TEMPERATURE SHALL BE MONITORED THROUGH THE EMS.
4. SPACE TEMPERATURE SENSOR SHALL MODULATE ELECTRIC HEATING COIL TO MAINTAIN 70°F (ADJUSTABLE THROUGH SOFTWARE). HEATING COIL SHALL ONLY BE ENERGIZED WHEN AIR FLOW IS PROVED BY AIR FLOW SAIL SWITCH.
5. SPACE TEMPERATURE SENSOR SHALL SEQUENCE REMOTE AIR COOLED CONDENSING UNIT TO MAINTAIN 75°F (ADJUSTABLE THROUGH SOFTWARE) SPACE TEMPERATURE.
6. PROVIDE CONDENSATE DRAIN PAN WATER LEVEL SENSOR. UNIT SHALL DE-ENERGIZE AND ALARM THROUGH THE EMS WHEN HIGH WATER LEVEL IS SENSED.

TYPICAL FAN COIL UNIT/SPLIT SYSTEM DIRECT VENTILATION CONTROL DIAGRAM

SCALE: NONE

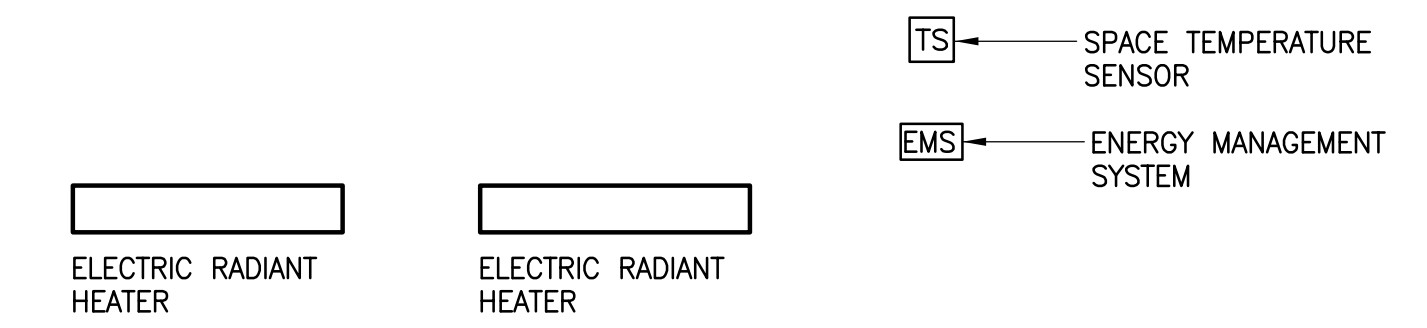


SEQUENCE OF OPERATION

1. INDOOR UNIT (ERU-1):
 - A. UNIT SHALL HAVE OUTDOOR AIR TEMPERATURE SENSOR (T-1), EHC-1 DISCHARGE AIR TEMPERATURE SENSOR (T-2), INDOOR UNIT SUPPLY AIR TEMPERATURE SENSOR (T-3), AND EXHAUST AIR TEMPERATURE SENSOR (T-4).
 - B. OUTDOOR AIR DAMPER AND EXHAUST AIR DAMPER SHALL OPEN (PROVEN BY AN END SWITCH) WHEN THE INDOOR UNIT IS COMMANDED TO ENERGIZED AND CLOSED WHEN THE INDOOR UNIT IS DE-ENERGIZED. SUPPLY AND RELIEF FANS SHALL ONLY ENERGIZE WHEN BOTH DAMPERS ARE PROVEN OPEN BY DAMPER END SWITCHES.
2. ELECTRIC HEATING COIL (EHC-1):
 - A. SPACE TEMPERATURE SENSOR SHALL SEQUENCE THE ELECTRIC HEATING COIL TO MAINTAIN 70°F (ADJUSTABLE THROUGH SOFTWARE) ONCE FLOW IS PROVEN BY AIR FLOW SAIL SWITCH.
3. THE EMS SHALL DETERMINE OCCUPIED/UNOCCUPIED MODES OF OPERATION THROUGH TIME OF DAY SCHEDULING. ERU-1 SHALL ONLY OPERATE IN AN OCCUPIED MODE OF OPERATION (UNLESS OVERRIDDEN BY OWNER).
4. INTERLOCK WITH THE HIGH SCHOOL EMS. PROVIDE GRAPHICS IN EMS FOR ENTIRE SYSTEM.
5. ENTHALPY CORE PLATE (OUTDOOR AIR):
 - A. WHEN THE SYSTEM IS INDEXED ON THE ENTHALPIC CORE PLATE TYPE HEAT EXCHANGER SHALL BE UTILIZED. ENTERING AND LEAVING AIR TEMPERATURES OF SUPPLY AND RELIEF AIR STREAMS SHALL BE MONITORED BY THE EMS. DURING INTERMEDIATE WEATHER CONDITIONS WHEN OUTDOOR AIR TEMPERATURES IS ABOVE 65°F (ADJUSTABLE), THE ENTHALPIC CORE TYPE HEAT EXCHANGER SHALL BE BYPASSED FOR ECONOMIZER COOLING AND VENTILATION.

TYPICAL VENTILATION AIR UNIT (ERU) SYSTEM CONTROL DIAGRAM

SCALE: NONE



SEQUENCE OF OPERATION

1. SPACE TEMPERATURE SENSOR SHALL ENERGIZE/DEENERGIZE ELECTRIC RADIANT HEATERS TO MAINTAIN SPACE TEMPERATURE SETPOINT OF 70°F (ADJUSTABLE THROUGH SOFTWARE).
2. SPACE TEMPERATURE SHALL BE MONITORED THROUGH THE EMS.

TYPICAL ELECTRIC RADIANT HEATER CONTROL DIAGRAM

SCALE: NONE

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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No.: 45531, Expiration Date: 6/3/2024.

PROFESSIONAL SEAL:

PRINTS ISSUED

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BID	DOCUMENTS	04/08/2024

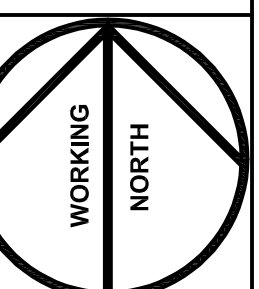
LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING

ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:

MISCELLANEOUS CONTROL DIAGRAM

PROJECT NO:
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As Indicated



DRAWN BY: ALBAN ENGINEERING

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SHEET NO:

M-4

FCU UNIT SCHEDULE																															
FCU NO.	SERVICE	LOCATION	SUPPLY FAN						COOLING COIL SYSTEM CONDITION						ELECTRIC REHEAT COIL				OUTSIDE AIR			ELECTRICAL CHARACTERISTICS			WEIGHT (LBS)	BASED ON (TRANE)	REMARKS				
			FAN HP	FAN RPM	STD. AIR CFM	MAX. CFM	FAN TYPE	FAN QTY	MAX ESP (IN H ₂ O)	EAT DB (°F)	LAT DB (°F)	LAT WB (°F)	MAX. FACE VEL. (FPM)	MAX. A.P.D. (IN H ₂ O)	SENS. CAP. (MBH)	TOTAL CAP. (MBH)	EAT DB (°F)	LAT DB (°F)	TOTAL CAP. (MBH)	MAX. A.P.D. (IN H ₂ O)	KW	MIN. CFM	MAX. CFM	%				V/ø/Hz	MCA	MOP	
FCU-1	TEAM ROOMS C107	ABOVE CEILING	1	1610	300	1,000	FC	1	1.0	80	67	58	56	375	0.29	24.4	35.4	60	92	34.2	0.14	10.0	300	1,000	30	280/3/60	40.5	45	350	BCHE036	ALTERNATE #1
FCU-2	CONCESSIONS C100	ABOVE CEILING	1/2	1261	120	750	FC	1	1.0	-	-	-	-	-	-	-	-	60	92	25.4	0.08	10.0	120	750	16	280/3/60	37.8	40	350	BCHE036	-

- NOTES:
- VAV=VARIABLE AIR VOLUME / CV=CONSTANT AIR VOLUME / MS=MULTIPLE SPEED
 - ESP = EXTERNAL STATIC PRESSURE BASED ON THE PRESSURE REQUIRED AT THE AHU DUCT CONNECTION.
 - FC = FORWARD CURVED, BIAF = BACKWARD INCLINED AIR FOIL, APFF = AIRFOIL PLENUM FAN (SINGLE WIDTH, SINGLE INLET).
 - PROVIDE 2" MERV 8.

ENERGY RECOVERY VENTILATOR UNIT (ERV) SCHEDULE																																			
EQUIP. DESIG.	SERVICE	LOCATION	SUPPLY AIR FAN						RETURN/RELIEF AIR FAN						OUTSIDE AIR				ELECTRICAL				ENTHALPY HEAT RECOVERY DEVICE						WEIGHT (LBS)	EMER. POWER	BASED ON GREENHECK				
			PERFORMANCE CHAR.			RPM	STD. AIR CFM	PERFORMANCE CHAR.			RPM	STD. AIR CFM	MIN	%	MAX	%	V/ø/Hz	MCA	MOP	WINTER CONDITION			SUPPLY			EXHAUST									
HP	FAN QTY	FAN TYPE	MAX ESP	MAX	MIN	MAX	HP	FAN QTY	FAN TYPE	MAX ESP	MAX	MIN	MAX	MIN	CFM	%	MAX	CFM	%	EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	LAT DB	LAT WB				
ERV-1	WOMEN'S & MEN'S RESTROOM	TEAM ROOM	0.5	1	BIAF	0.5	1,750	600	600	0.5	1	BIAF	0.5	1750	600	600	600	600	100	600	100	208/3/60	10.8	15	500	NO	10	8	50.0	41	72	56.0	32	31	ECV-10L-VG-F

- NOTES:
- VAV = VARIABLE AIR VOLUME / CV = CONSTANT VOLUME.
 - ESP = EXTERNAL STATIC PRESSURE BASED ON PRESSURE REQUIRED AT AHU DUCT CONNECTION.
 - FC = FORWARD CURVED, BIAF = BACKWARD INCLINED AIR FOIL (DOUBLE WIDTH, DOUBLE INLET).
 - APFF = AIRFOIL PLENUM FAN (SINGLE WIDTH, SINGLE INLET).
 - ALL FANS SHALL BE DIRECT DRIVE TYPE - NO EXCEPTIONS
 - EXHAUST FAN CFM VALUE DOES NOT INCLUDE WHEEL PURGE CFM.
 - PROVIDE INDEPENDENT 120V ELECTRICAL CONNECTION FOR LIGHTS AND GFI RECEPTALS.
 - FAN HP IS BASED ON TOTAL MOTOR HP.
 - ALL EQUIPMENT SHALL COMPLY WITH ASHRAE 90.1-2013

FAN SCHEDULE													
UNIT F-X	AREA SERVED	INTERLOCK	LOCATION	CHARACTERISTICS							TYPE	BASED ON (GREENHECK)	
				CFM	ESP (IN H ₂ O)	FRPM	DRIVE TYPE	MOTOR		ELECTRICAL			
1	CUSTODIAL C105	LIGHT SW	C105	150	0.30	900	DIRECT	52 WATTS	ODP	115/1/60	NO	CEILING EXHAUST	SP-A200
2	FAMILY RESTROOM C101	LIGHT SW	C101	150	0.30	900	DIRECT	52 WATTS	ODP	115/1/60	NO	CEILING EXHAUST	SP-A200

- NOTES:
- TSTAT=THERMOSTAT; HSTAT=HUMIDISTAT; SW=SWITCH; SP=STATIC PRESSURE, TD=WITH 15 MINUTE TIME DELAY ZONE=ZONE OCC/UNOCC MODE
 - PROVIDE FACTORY MOUNTED DISCONNECT SWITCH FOR ALL EXHAUST FANS, COORDINATING REQUIREMENTS AND INTERLOCKS WITH ELECTRICAL
 - REFER TO CONTROL DIAGRAMS FOR SPECIFIC SEQUENCES OF OPERATION AND INTERLOCK ARRANGEMENTS
 - PROVIDE SPEED CONTROLLER FOR ALL DIRECT DRIVE FANS

ELECTRIC RADINAT CEILING PANEL SCHEDULE						
ERCP-X	AREA SERVED	SIZE (L'XW')	TOTAL CAP. (WATTS)	AMPS	ELEC. CHAR. (V/ø/Hz)	REMARKS (BASED ON)
ERCP-1	FAMILY RESTROOM C101	24x24	310	2.6	120/1/60	BERKO CP311F

- NOTES:
- PROVIDE CUSTOM COLOR AS SELECTED BY THE OWNER.
 - ALL UNITS SHALL BE HEAVY DUTY CONSTRUCTED.
 - PROVIDE RECESSED OR SURFACE MOUNTED FRAME AS REQUIRED.

DUCT MOUNTED ELECTRIC HEATING COIL SCHEDULE									
No. EHC-X	INTERLOCK	REHEAT COIL CHARACTERISTICS							REMARKS (BASED ON)
		CFM	EAT DB (°F)	LAT DB (°F)	KW	MBH	ELECT. CHAR.	CONTROL TYPE	
1	ERV-1	600	55	85	7.5	25.6	460/3/60	SCR	BERKO FT SERIES

- NOTES:
- PROVIDE AND INTERLOCK SPACE TEMPERATURE SENSOR TO THE ELECTRIC HEAT COIL AND BUILDING ENERGY MANAGEMENT SYSTEM.
 - PROVIDE INSULATED CONTROL CABINET TO PREVENT CONDENSATION.
 - PROVIDE SINGLE POINT POWER CONNECTION WITH DISCONNECT, TIME DELAY RELAY, FUSES, AND UL SAFETY PROTECTION (PRIMARY & SECONDARY THERMAL CUTOFF).
 - PROVIDE FINNED TUBULAR ELEMENTS WITH SCR CONTROL.
 - PROVIDE AIR FLOW SAIL SWITCH.
 - MAINTAIN 48" CLEAR IN FRONT OF CONTROL CABINET.

AIR COOLED CONDENSING UNIT SCHEDULE											
UNIT	AREA SERVED	UNIT LOCATION	COOLING CAPACITY (45°)(MBH)	OAT (°F)	ELECTRICAL			WEIGHT (LBS)	EMER. POWER	BASED ON TRANE	REMARKS
					MCA	MOP	V/ø/Hz				
ACCU-1	TEAM ROOM	GRADE	42	95	18	30	280/3/60	300	NO	4TWA4042A	ALTERNATE#1

- NOTES:
- COORDINATE ALL CAPACITY REQUIREMENTS WITH INDOOR AIR HANDLING UNITS.
 - INSTALL REFRIGERANT PIPING AND ACCESSORIES PER THE MANUFACTURERS RECOMMENDATIONS.
 - COOLING CAPACITIES ARE BASED ON A MAXIMUM OF 45°F SATURATED SUCTION TEMPERATURE.

AIR DEVICE SCHEDULE										
No. (SD)	CFM	NECK SIZE	COLLAR # SIZE	MAX NC	TYPE (SEE SPEC.)					
						MAX	MIN	MAX	MIN	
SUPPLY AIR DEVICE										
S1	125	6x6	6"ø	18	TITUS TDC					
S2	230	9x9	8"ø	18	TITUS TDC					
S3	400	12x12	10"ø	18	TITUS TDC					
S4	600	15x15	12"ø	18	TITUS TDC					
S5	800	18x18	14"ø	18	TITUS TDC					
S6	1000	21x21	16"ø	18	TITUS TDC					
S7	125	6x6	-	18	TITUS TDC					
S8	230	9x9	-	18	TITUS TDC					
S9	400	12x12	-	18	TITUS TDC					
S10	600	15x15	-	18	TITUS TDC					
S11	800	18x18	-	18	TITUS TDC					
S12	1000	21x21	-	18	TITUS TDC					
S13	200	12x12/8"ø	-	18	TITUS TDC					
S14	270	12x12/10"ø	-	18	TITUS TDC					
S15	500	15x15/12"ø	-	18	TITUS TDC					
S16	150	8x6	-	18	TITUS 300RS					
S17	200	12x6	-	18	TITUS 300RS					
S18	315	18x6	-	18	TITUS 300RS					
S19	350	12x12	-	18	TITUS 300RS					
S20	450	24x6	-	18	TITUS 300RS					
S21	550	18x12	-	18	TITUS 300RS					
S22	650	18x12	-	18	TITUS 300RS					
S23	725	22x10	-	18	TITUS 300RS					
S24	850	24x12	-	18	TITUS 300RS					
S25	950	24x14	-	18	TITUS 300RS					
S26	950	36x10	-	18	TITUS 300RS					
S27	1100	36x12	-	18	TITUS 300RS					
S28	1300	42x12	-	18	TITUS 300RS					
S29	1700	36x18	-	18	TITUS 300RS					
S30	2000	42x18	-	18	TITUS 300RS					
S31	150	12x4	-	18	TITUS S300FS					
S32	200	12x6	-	18	TITUS S300FS					
S33	475	36x6	-	18	TITUS S300FS					
S34	450	18x8	-	18	TITUS S300FS					
S35	670	18x12	-	18	TITUS S300FS					
S36	850	24x12	-	18	TITUS S300FS					
S37	950	30x12	-	18	TITUS S300FS					
S38	1000	36x12	-	18	TITUS S300FS					
S39	1500	36x16	-	18	TITUS S300FS					
S40	390	12"ø	-	18	TITUS XC-310					
S41	500	14"ø	-	18	TITUS XC-310					
S42	650	16"ø	-	18	TITUS XC-310					
S43	800	18"ø	-	18	TITUS XC-310					
RETURN AIR DEVICE										
R1	100	6x6	-	18	TITUS 350RL					
R2	300	10x10	-	18	TITUS 350RL					
R3	450	12x12	-	18	TITUS 350RL					
R4	800	16x16	-	18	TITUS 350RL					
R5	1000	18x18	-	18	TITUS 350RL					
R6	1300	20x20	-	18	TITUS 350RL					
R7	1660	22x22	-	18	TITUS 350RL					
R8	3300	42x42	-	18	TITUS 350RL					
R9	650	18x12	-	18	TITUS 350RL					
R10	1000	30x12	-	18	TITUS 350RL					
R11	1250	36x12	-	18	TITUS 350RL					
R12	900	22x10	-	18	TITUS 50F					
R13	1900	22x22	-	18	TITUS 50F					
R14	4000	46x22	-	18	TITUS 50F					
R15	1600	20x20	-	18	TITUS 50FF					
R16	3400	42x20	-	18	TITUS 50FF					
R17	700	24x12	-	18	TITUS 33RS					
R18	1200	24x24	-	18	TITUS 33RS					
R19	1700	36x24	-	18	TITUS 33RS					
R20	2600	36x36	-	18	TITUS 33RS					
R21	3100	42x36	-	18	TITUS 33RS					
R22	4600	48x36	-	18	TITUS 33RS					
R23	3600	42x42	-	18	TITUS 33RS					
R24	4650	48x48	-	18	TITUS 33RS					
R25	350	18x6	-	18	TITUS 350RL					
R26	685	22x10	-	18	TITUS 350RL					
R27	2750	32x32	-	18	TITUS 350RL					
R28	1610	36x14	-	18	TITUS 350RL					
R29	5500	42x38	-	18	TITUS 350RL					
R30	2110	36x18	-	18	TITUS 350RL					
R31	300	10x10	-	18	TITUS 350RL					
R32	450	12x12	-	18	TITUS 350RLF					
R33	800	16x16	-	18	TITUS 350RLF					
R34	1660	22x22	-	18	TITUS 350RLF					
R35	2800	48x18	-	18	TITUS 350RLF					
EXHAUST AIR DEVICE										
E1	100	6x6	-	18	TITUS 350RL					
E2	150	8x6	-	18	TITUS 350RL					
E3	300	12x8	-	18	TITUS 350RL					
E4	325	10x10	-	18	TITUS 350RL					
E5	450	12x12	-	18	TITUS 350RL					
E6	750	18x12	-	18	TITUS 350RL					
E7	800	16x16	-	18	TITUS 350RL					
E8	900	24x12	-	18	TITUS 350RL					
E9	1050	18x18	-	18	TITUS 350RL					
E10	1300	20x20	-	18	TITUS 350RL					
E11	1550	22x22	-	18	TITUS 350RL					
E12	1750	30x18	-	18	TITUS 350RL					
E13	2450	42x18	-	18	TITUS 350RL					
E14	2750	42x20	-	18	TITUS 350RL					
E15	3300	46x22	-	18	TITUS 350RL					

- NOTES:
- ALL SUPPLY AIR DIFFUSERS SHALL BE 4-WAY BLOW UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
 - ALL SUPPLY AIR REGISTERS SHALL BE DOUBLE DEFLECTION WITH FRONT BLADES PARALLEL TO THE SHORT DIMENSION (VERTICAL).
 - PROVIDE 24x24 OR 48x24 MODULE FOR ALL LAY-IN SUPPLY, RETURN AND EXHAUST AIR DEVICES. TRIM MODULE AS NECESSARY TO FIT INTO GRID IF LESS THAN 24x24 OR 48x24 IS AVAILABLE.
 - EGGCRATE REGISTERS SHALL HAVE 1/2"x1/2"x1" DEEP ALUMINUM CORES.
 - EXHAUST REGISTERS CONNECTED TO STAINLESS STEEL DUCTWORK SHALL BE CONSTRUCTED OF STAINLESS STEEL.
 - FOR SUPPLY AIR DEVICES CONNECTED TO THE BOTTOM OF BRANCH DUCTS (ie SERVING MORE THAN ONE AIR DEVICE) PROVIDE DAMPER WITH GRID, TITUS AG-65 OR EQUAL.
 - NOT ALL AIR DEVICES SCHEDULED MAY BE USED.
 - COLLAR SIZE REFERS TO RUNNOUT CONNECTION TO SOUND LINED PLENUM BOX FABRICATED BY THE SHEET METAL CONTRACTOR CONNECTING TO THE DIFFUSER NECK. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
 - PROVIDE AIR EXTRACTOR FOR ALL SIDEWALL SUPPLY REGISTERS.
 - PROVIDE ALUMINUM CONSTRUCTION FOR ALL AIR DEVICES LOCATED IN LOCKER ROOMS, KITCHEN, ROOMS WITH SHOWERS AND ALL SCIENCE LABS.
 - ALL TDCA TYPE DIFFUSERS SHALL BE PROVIDED WITH ADJUSTABLE VANES, ACCESSIBLE FROM THE DIFFUSER FACE, WITH THE DISCHARGE PATTERN SET TO THE VERTICAL POSITION.
 - PROVIDE FILTER FOR ALL FILTER RETURN AIR GRILLES.

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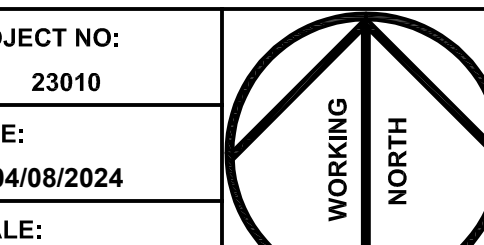
LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING

ST. MARY'S COUNTY PUBLIC SCHOOLS

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MECHANICAL EQUIPMENT SCHEDULES

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CHECKED BY: ALBAN ENGINEERING
SHEET NO:



M-5

PLUMBING NOTES

- COORDINATE WORK BETWEEN DISCIPLINES
- CONDENSATE FROM MECHANICAL EQUIPMENT COILS SHALL BE PIPED TO THE STORM DRAIN PIPING UNLESS OTHERWISE INDICATED ON DRAWINGS.
- REFER TO SECTIONS OF ARCHITECTURAL AND MECHANICAL DRAWINGS FOR PIPE ROUTING THROUGH THE FACILITY.
- COORDINATE PLUMBING PIPING ENCLOSURES WITH ARCHITECTURAL DRAWINGS PRIOR TO SETTING PIPING BELOW SLABS.
- COORDINATE ALL FLOOR, SINK AND TRENCH DRAIN LOCATIONS WITH MECHANICAL EQUIPMENT PLACEMENT PRIOR TO SETTING SUCH DRAINS. DRAINS SHALL BE LOCATED AS CLOSE TO EQUIPMENT DRAIN POINTS AS POSSIBLE.
- PROVIDE SHUTOFF VALVES IN DOMESTIC WATER SYSTEM BRANCH LINES SERVING TWO OR MORE FIXTURES.
- INSTALL PIPING SO VALVES ARE ACCESSIBLE. ALL SHUT-OFF VALVES SHALL BE BALL TYPE ONLY.
- WHERE HOT AND COLD WATER PIPING DROPS INTO PIPE CHASE THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.
- ITEMS SUCH AS ACCESS DOORS, RISE AND DROPS IN PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.
- ALL PLUMBING FIXTURES SHALL HAVE A MINIMUM AIR GAP FROM THE LOWEST END OF A POTABLE WATER OUTLET TO THE FLOOR RIM OR LINE OF THE FIXTURE INTO WHICH IT DISCHARGES. THE AIR GAP SHALL BE A MINIMUM OF TWICE THE EFFECTIVE OPENING OF A POTABLE WATER OUTLET UNLESS THE OUTLET IS A DISTANCE LESS THAN 3 TIMES THE EFFECTIVE OPENING OF AWAY FROM A WALL OR SIMILAR VERTICAL SURFACE IN WHICH CASE THE MINIMUM REQUIRED AIR GAP SHALL BE 3 TIMES THE EFFECTIVE OPENING OF THE OUTLET.
- FIXTURES SUBJECT TO INTERMITTENT OR CONTINUOUS PRESSURE BACK-SIPHONAGE SHALL BE PROVIDED WITH A BACKFLOW PREVENTION DEVICE. (ASSE PER AHJ).
- FIXTURES WHICH DISCHARGE INDIRECTLY INTO A FLOOR DRAIN OR FLOOR SINK SHALL DISCHARGE WITH AN AIR GAP EQUAL TO TWICE THE DIAMETER OF THE FIXTURE DISCHARGE PIPE.
- INSULATE ALL HORIZONTAL SECTIONS OF STORM WATER AND STORM WATER OVERFLOW PIPING.
- COORDINATE SETTING AND ELEVATION OF KITCHEN FLOOR SINKS AND DRAINS WITH LOCAL PLUMBING INSPECTOR.
- ALL PIPING NOT INDICATED IN CHASES SHALL BE LOCATED ABOVE CEILING AS HIGH AS POSSIBLE. COORDINATE ROUTING OF PIPING WITH OTHER DISCIPLINES.
- PROVIDE SINK TAILPIECE WITH DISHWASHER DRAIN CONNECTION AND PROVIDE HOT WATER SUPPLY CONNECTION TO DISHWASHER AT REQUIRED LOCATIONS AS INDICATED PER ARCHITECTURAL DRAWINGS. INSTALL PLUMBING UTILITIES AS REQUIRED PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE WATER HAMMER ARRESTORS WHERE QUICK CLOSING VALVES ARE INSTALLED. INSTALLATION AND QUANTITY SHALL BE PER CONTRACT DRAWINGS AND MANUFACTURERS RECOMMENDATIONS. WATER HAMMER ARRESTORS SHALL BE ACCESSIBLE FOR MAINTENANCE.
- THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR PROTECTING ALL DRAINS DURING THE CONSTRUCTION AND RETURNING THEM TO FREE FLOWING AND IN WORKING CONDITIONS. THE CONTRACTOR SHALL GUARANTEE ALL DRAINS FOR AT LEAST 90 DAYS AFTER FINAL COMPLETION OF THE BUILDING.
- IF SITE WORK PIPING IS INSTALLED AT THE SAME TIME THE PLUMBING CONTRACTOR IS INSTALLING PIPING, THE PLUMBING CONTRACTOR SHALL MAKE THE CONNECTIONS TO THE SITE PLUMBING.
- AFTER PRESSURE TESTS ARE COMPLETE ALL SANITARY AND STORM WATER PIPING 3" AND LARGER LOCATED UNDER SLAB SHALL BE VIDEO TAPED BY A THIRD PARTY TO THE FIRST MANHOLE OR CLEAN-OUT LOCATED OUTSIDE THE BUILDING.
- ALL DOMESTIC WATER PIPING, VALVES, TANKS ETC IN ITS ENTIRETY SHALL BE NSF 61 CERTIFIED AND COMPLY WITH HB 372 LEAD FREE REQUIREMENTS.
- ALL ADA ACCESSIBLE SINKS AND LAVS SHALL UTILIZE OFFSET DRAIN PIPING AND ALL EXPOSED PIPING SHALL BE PROVIDED WITH PRE MANUFACTURED INSULATION KITS.
- PROVIDE TRAP TRAP SEALS FOR ALL FLOOR DRAINS.
- PIPE ALL GAS VENTS (w/ REGULATORS) TO THE EXTERIOR. VENT LIMITERS ARE PROHIBITED.

PLUMBING LEGEND

SYMBOLS

SYMBOL	DEFINITION
	COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	ABOVE
	FIRE LINE
	SPRINKLER LINE
	SANITARY
	VENT
	STORM WATER
	OVERFLOW (STORM WATER)
	PUMPED DISCHARGE
	CONDENSATE DRAIN
	FOUNDATION DRAIN
	ACID RESISTANT WASTE
	ACID RESISTANT VENT
	NATURAL GAS
	BALL VALVE
	PIPING BELOW GRADE OR SLAB
	BUTTERFLY VALVE
	UNION
	GATE VALVE
	GLOVE VALVE
	BALANCING VALVE
	PLUG VALVE
	REDUCED PRESS. BACKFLOW PREVENTER
	PRESSURE REDUCING VALVE
	CHECK VALVE
	DOUBLE DETECTOR CHECK VALVE
	BACKWATER VALVE
	FLOOR CLEANOUT
	WALL CLEANOUT
	PIPE UP
	PIPE UP & DN
	PIPE DOWN
	SIGHT GLASS
	FLOAT VALVE
	FLOOR DRAIN
	FLOOR DRAIN WITH TRAP PRIMER
	FLOOR SINK
	ROOF DRAIN (W/ SQ FT INDICATED)
	TRAP (ELEVATION)
	VENT THROUGH ROOF (ELEVATION)
	VENT THROUGH ROOF (PLAN)
	MIXING VALVE
	METER (FLUID OR GAS)
	INCHES
	FEET
	HOSE BIBB (PLAN)
	NON-FREEZE WALL HYDRANT
	HOSE BIBB (ELEVATION)
	HOSE END DRAIN
	OUTSIDE STEM & YOKE VALVE
	NON-RISING STEM & YOKE
	FLOW SWITCH
	TAMPER SWITCH
	PRESSURE SWITCH
	FIRE DEPT HOSE CONNECTION
	FLOOR CONTROL VALVE ASSEMBLY
	Y-STRAINER
	WATER HAMMER ARRESTOR
	ACCESS PANEL
	POINT OF CONN. TO SITE UTILITIES
	SQUARE FOOTAGE
	DUPLEX GAS OUTLET
	ECCENTRIC REDUCER
	CONCENTRIC REDUCER
	FLEXIBLE CONNECTION
	CAPPED PIPE
	BLIND FLANGE
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	BLOW DOWN VALVE (W/ HOSE END)
	PRESSURE/TEMP. RELIEF VALVE
	PRESSURE DIFFERENCE
	TEMPERATURE DIFFERENCE
	CENTERLINE
	THERMOMETER
	PRESSURE GAUGE W/ NEEDLE VALVE
	DIAMETER (OR ELECTRICAL PHASE)
	BACKWATER VALVE W/ ACCESS COVER
	SOLENOID VALVE
	SLOPE OF PIPE (WITH % SLOPE SHOWN)
	DIRECTION OF FLOW
	FUNNEL CONNECTION @ FLOOR DRAIN
	SANITARY/WATER RISER DESIGNATION
	CONNECT TO EXISTING
	DEMOLITION ENDS HERE
	DRAWING NOTE DESIGNATION

NOTE:
NOT ALL SYMBOLS MAY BE USED.

ABBREVIATIONS

SYMBOL	DEFINITION
140"	140" DOMESTIC HOT WATER
140"R	140" DOMESTIC HOT WATER RETURN
AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
ANC	ANCHOR
AP	ACCESS PANEL
APPROX	APPROXIMATE
AQ	AQUASTAT
AV	ACID VENT
AW	ACID WASTE
BDV	BLOW DOWN VALVE
BF	BLIND FLANGE
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOP	BOTTOM OF PIPE
BOTT	BOTTOM
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWV	BACKWATER VALVE W/ ACCESS COVER
CAP	CAPACITY
CD, COND	CONDENSATE DRAIN
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
CONN	CONNECT
CONC	CONCRETE
CU FT	CUBIC FEET
CW	COLD WATER
CX	CONNECT TO EXISTING
DDC	DOUBLE DETECTOR CHECK VALVE
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DISH	DISCHARGE
DN	PIPE DOWN
DS	DOWN SPOUT W/ BOOT
DST	DEEP SEAL TRAP
DWG	DRAWING
ELEC	ELECTRIC
ELEV	ELEVATION
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	FIRE LINE
FC	FUNNEL CONNECTION @ FD
FCO	FLOOR CLEANOUT
FCVA	FLOOR CONTROL VALVE ASSEMBLY
FD	FLOOR DRAIN
FDW	FIRE DEPT. HOSE CONNECTION
FS	FLOW SWITCH
FT	FEET
FT, HD	FEET OF HEAD
G	GAS
GA	GAUGE
GalV	GALVANIZED
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HED	HOSE END DRAIN
HOR	HORIZONTAL
HP	HORSEPOWER
HT	HEAT TRAP
HW	HOT WATER RETURN (120")
HWR	HOT WATER RETURN (120")
HYD	HYDRAULIC
IN	INCHES
IE	INVERT ELEVATION
IV	INDIRECT WASTE
LOC	LIMIT OF CONTRACT
MAV	MANUAL AIR VENT
NFGH	NON-FREEZE GROUND HYDRANT
NFVH	NON-FREEZE WALL HYDRANT
NRS	NON-RISING STEM & YOKE VALVE
OF	OVERFLOW
OHD	OPEN HUB DRAIN
O.S.&Y	OUTSIDE STEM & YOKE VALVE
P	PRESSURE
PCOND	PUMPED CONDENSATE
PD	PUMPED DISCHARGE
PH	PIPE HANGER
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSAN	PUMPED SANITARY
PSC	PUMPED STEAM CONDENSATE
RD	ROOF DRAIN
RL	RAIN LEADER
SAN, S	SANITARY
SC	STEAM CONDENSATE
SCH	SCHEDULE
SP	SPRINKLER LINE
STD	STANDARD
SW	STORM WATER
T	TEMPERATURE
TD	TRENCH DRAIN
TS	TAMPER SWITCH
TW	TEMPERED WATER
TWR	TEMPERED WATER RETURN
UP	PIPE UP
UP & DN	PIPE UP & DN
V	VENT
VB	VACUUM BREAKER
VTR	VENT THROUGH ROUGH
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTOR
WSFU	WATER SUPPLY FIXTURE UNITS
TD	TRENCH DRAIN

NOTE:
NOT ALL ABBREVIATIONS MAY BE USED.

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PROFESSIONAL SEAL:

PRINTS ISSUED

NO.	DESCRIPTION	DATE:
CD	COORDINATION SET	12/06/2023
CD	90% SET	12/19/2023
BID	DOCUMENTS	04/08/2024

**LEONARDTOWN HIGH SCHOOL
CONNECTIONS
BUILDING**

**ST. MARY'S COUNTY
PUBLIC SCHOOLS**

SHEET TITLE:

**PLUMBING LEGEND
AND GENERAL
NOTES**

PROJECT NO:
23010

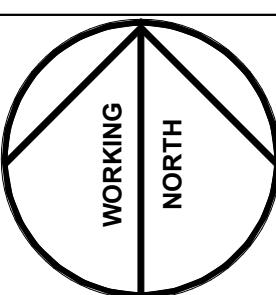
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12" = 1'-0"

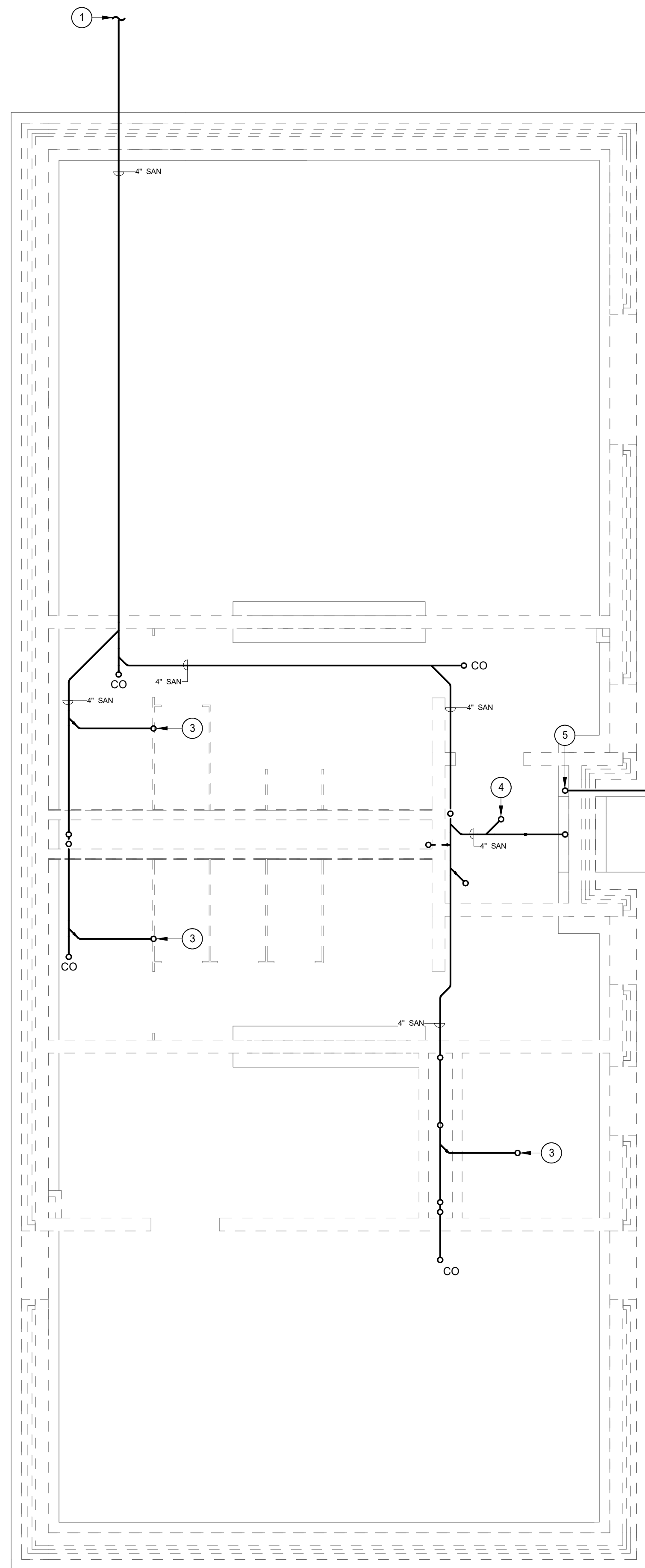
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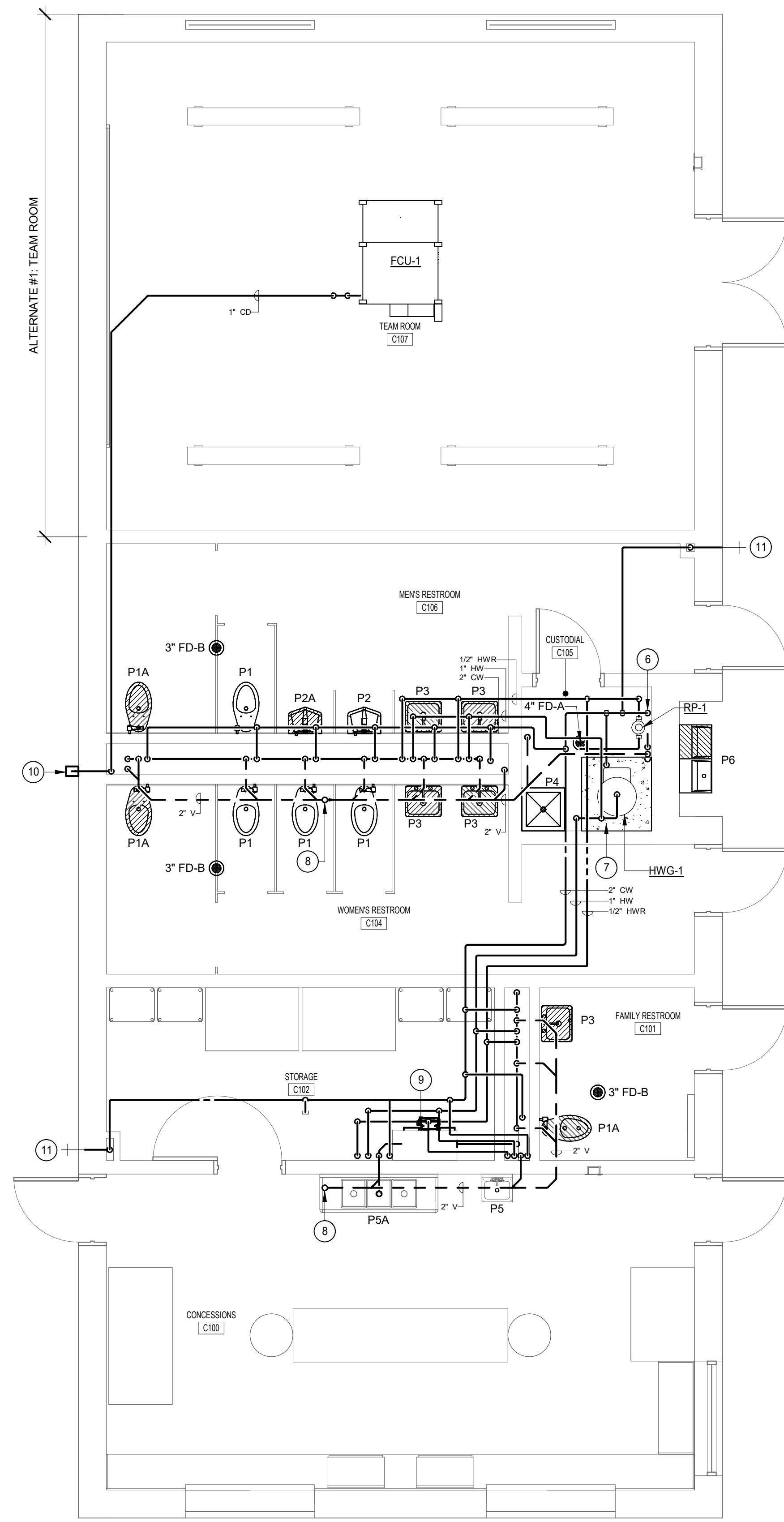
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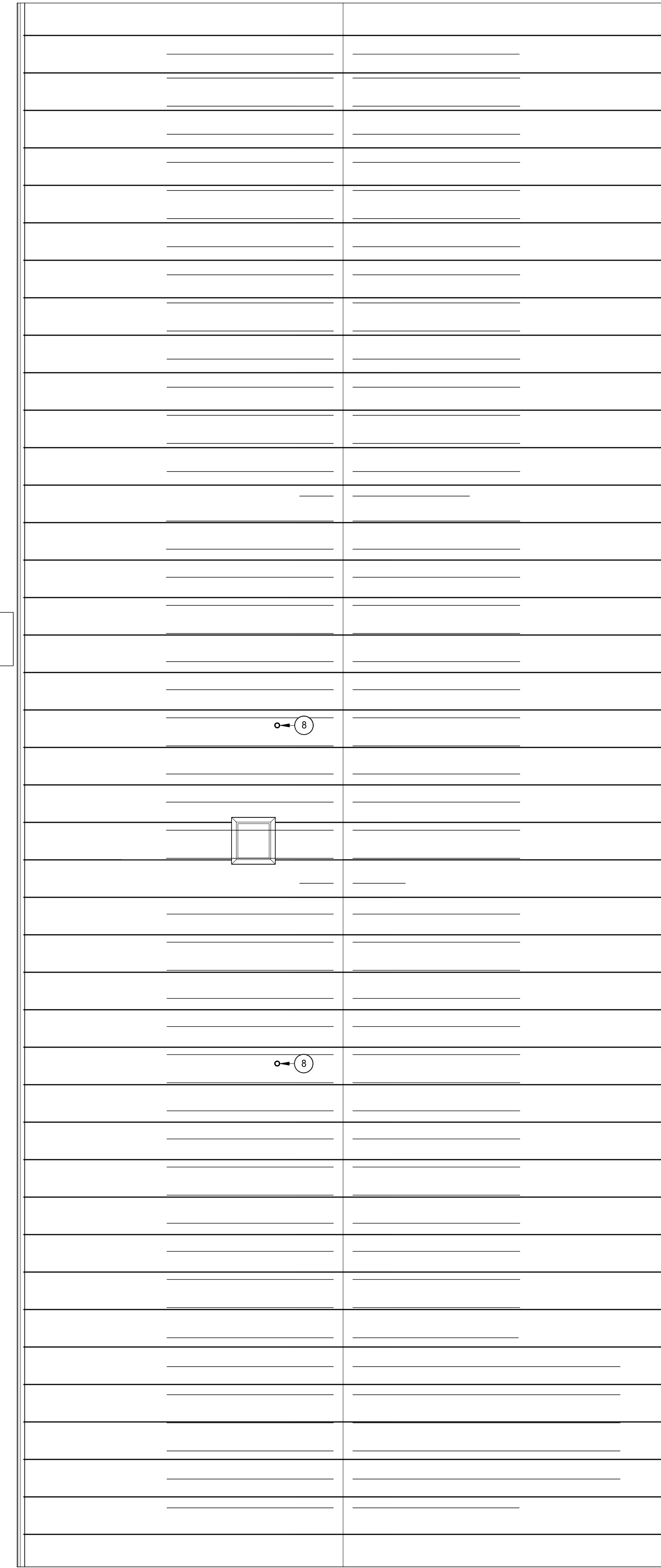
P-1



FOUNDATION PLAN
1/4" = 1'-0"



FIRST FLOOR PLAN
1/4" = 1'-0"



ROOF PLAN
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR CONTINUATION OF ALL UTILITIES.
2. REFER TO MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT.
4. PROVIDE LOW POINT DRAIN VALVES AND CONNECTIONS FOR COMPRESSED AIR FOR DRAINING/PURGING OF SYSTEM/WINTERIZATION
5. PROVIDE TRAP SEALS FOR ALL FLOOR DRAINS.

DRAWING NOTES

- 1 4" SAN (I.E. 107.75") REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 2 2" CW (I.E. 108.05") REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 3 3" SAN UP TO FD-B
- 4 4" SAN UP TO FD-A
- 5 2" CW UP.
- 6 2" CW DN.
- 7 6" HOUSEKEEPING PAD.
- 8 4" VTR.
- 9 GREASE INTERCEPTOR
85 LBS GREASE RETENTION CAPACITY
35 GPM
304 STAINLESS STEEL
10.2 AMPS, 115V/1ϕ/60Hz
FLOOR MOUNTED
BIG DIPPER MODEL W-350-IS
- 10 CONCRETE SPLASH BLOCK (ADD ALTERNATE No.1)
- 11 1/2" NFWH

ARCHITECT



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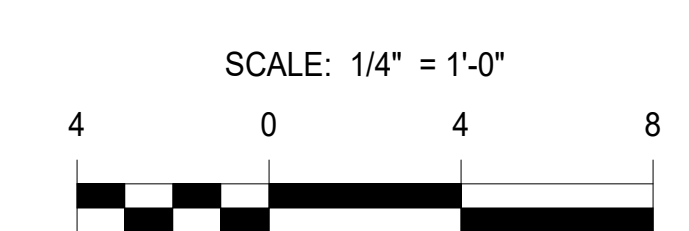
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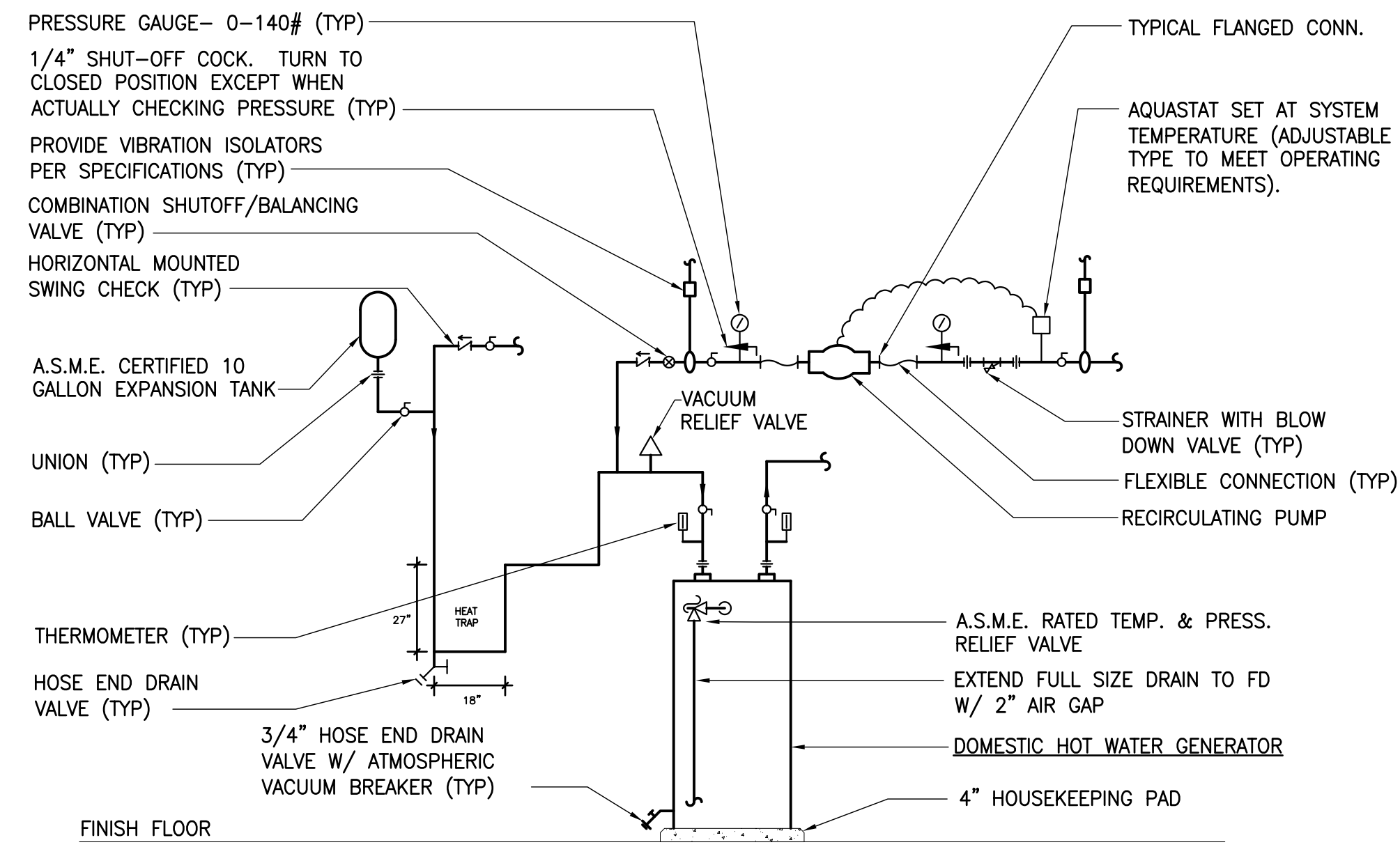
LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING
ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:
PLUMBING FLOOR PLANS

PROJECT NO: 23010	
DATE: 04/08/2024	
SCALE: 1/4" = 1'-0"	
DRAWN BY: ALBAN ENGINEERING	
CHECKED BY: ALBAN ENGINEERING	
SHEET NO:	

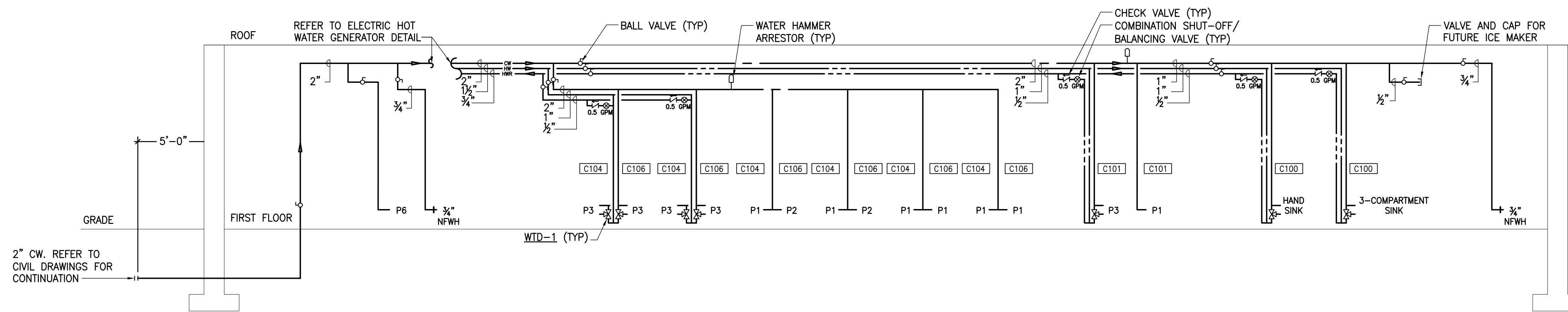
P-2





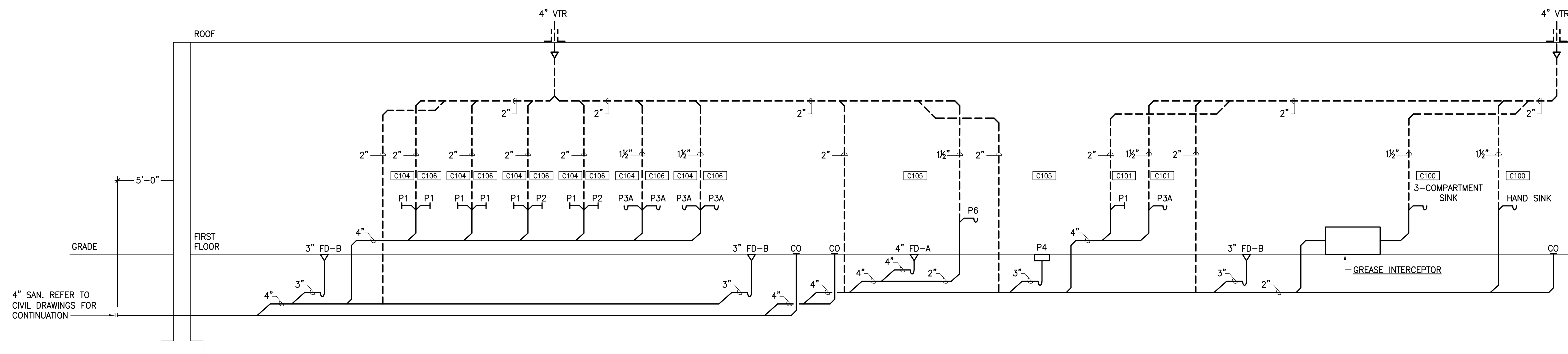
ELECTRIC HOT WATER GENERATOR DETAIL

SCALE: NOT TO SCALE



DOMESTIC WATER RISER DIAGRAM

SCALE: NOT TO SCALE



SANITARY AND VENT RISER DIAGRAM

SCALE: NOT TO SCALE

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CD	90% SET	12/19/2023
BID	DOCUMENTS	04/08/2024

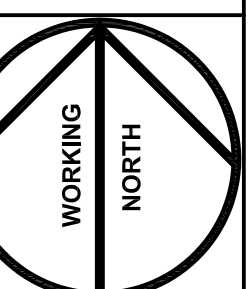
LEONARDTOWN HIGH SCHOOL
CONCESSIONS
BUILDING

ST. MARY'S COUNTY
PUBLIC SCHOOLS

SHEET TITLE:

PLUMBING RISER
DIAGRAMS

PROJECT NO:
23010
DATE:
04/08/2024
SCALE:
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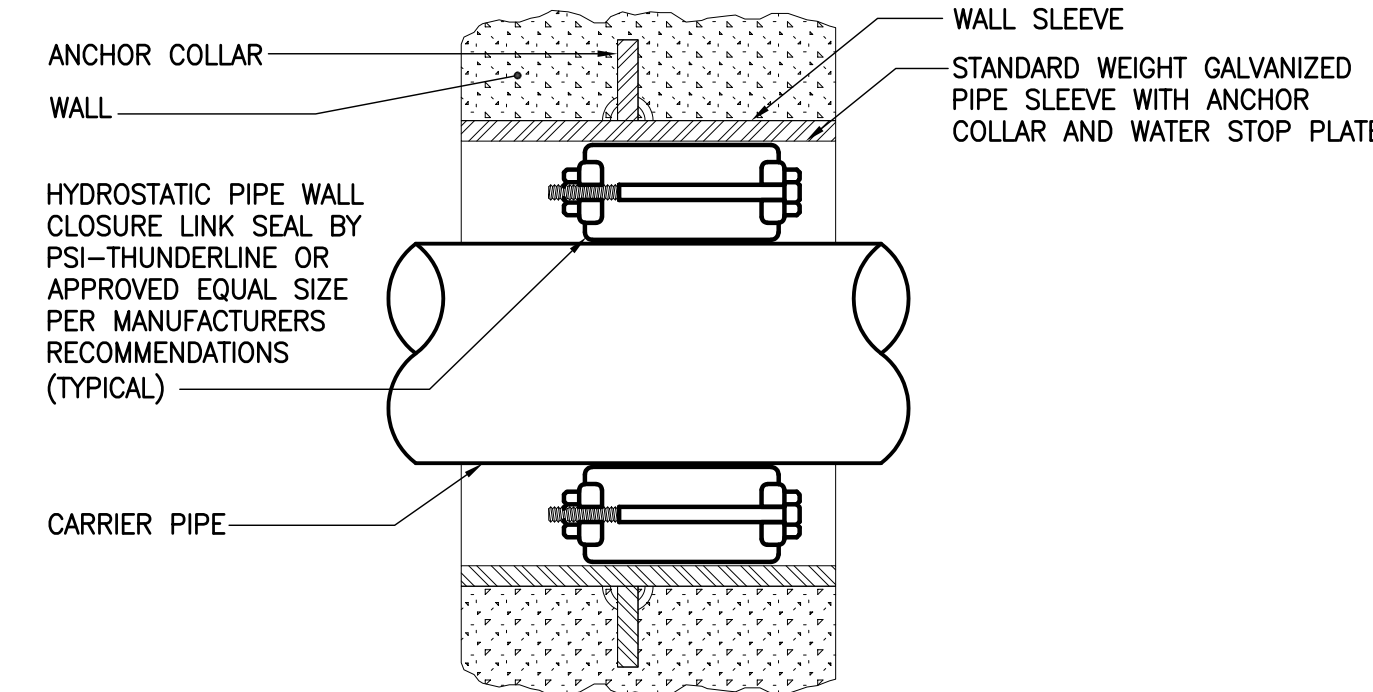


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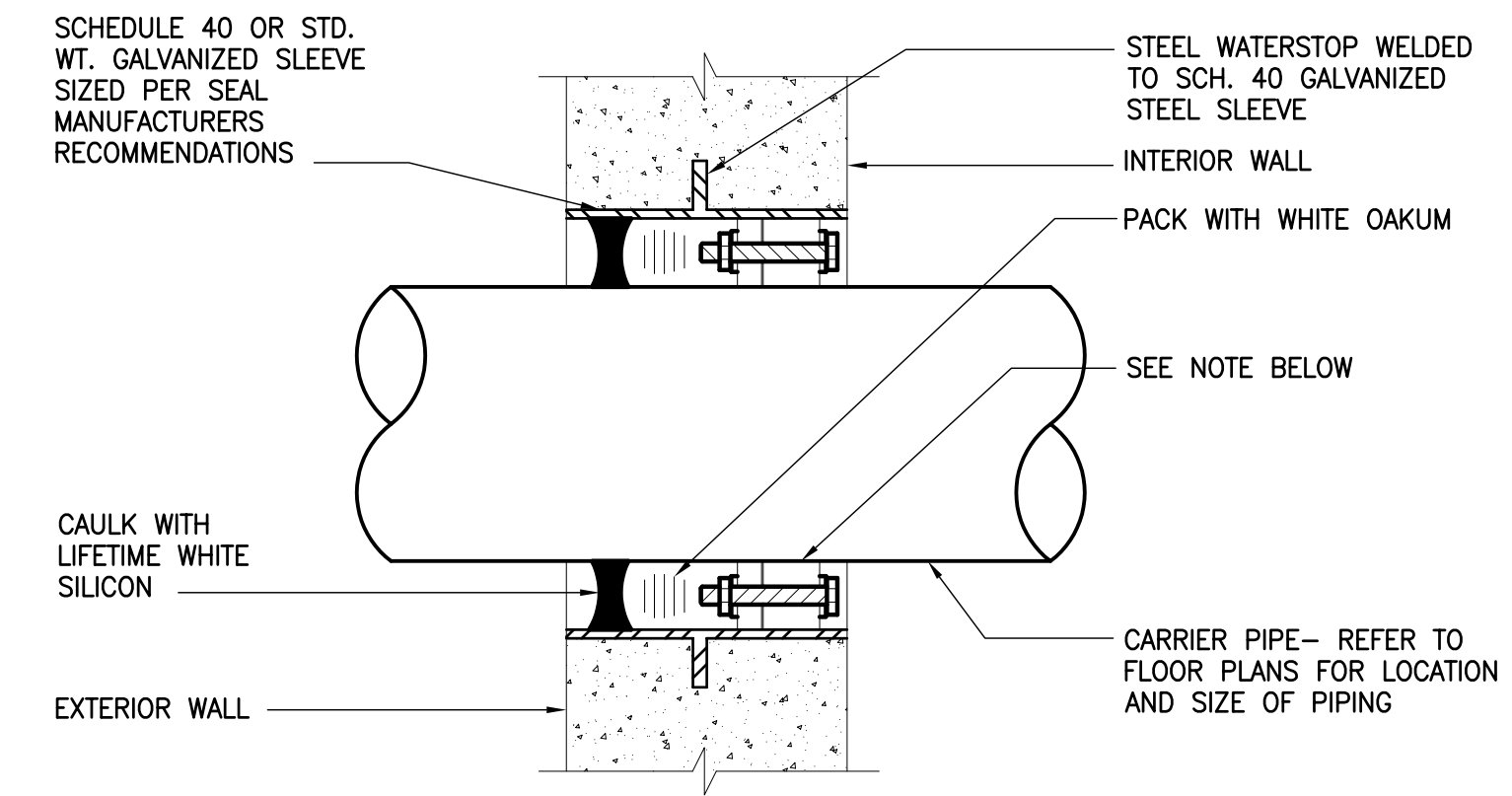
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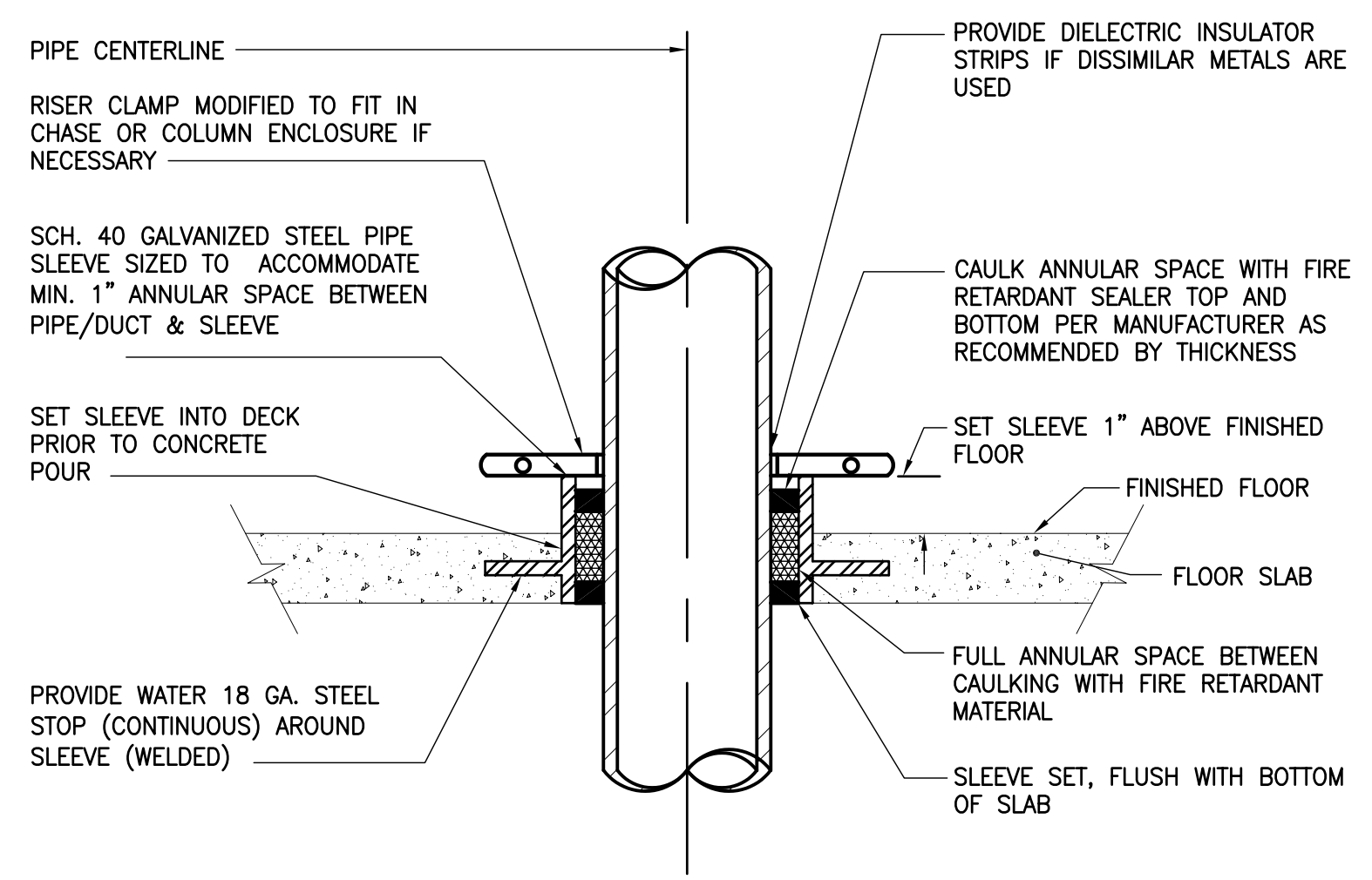
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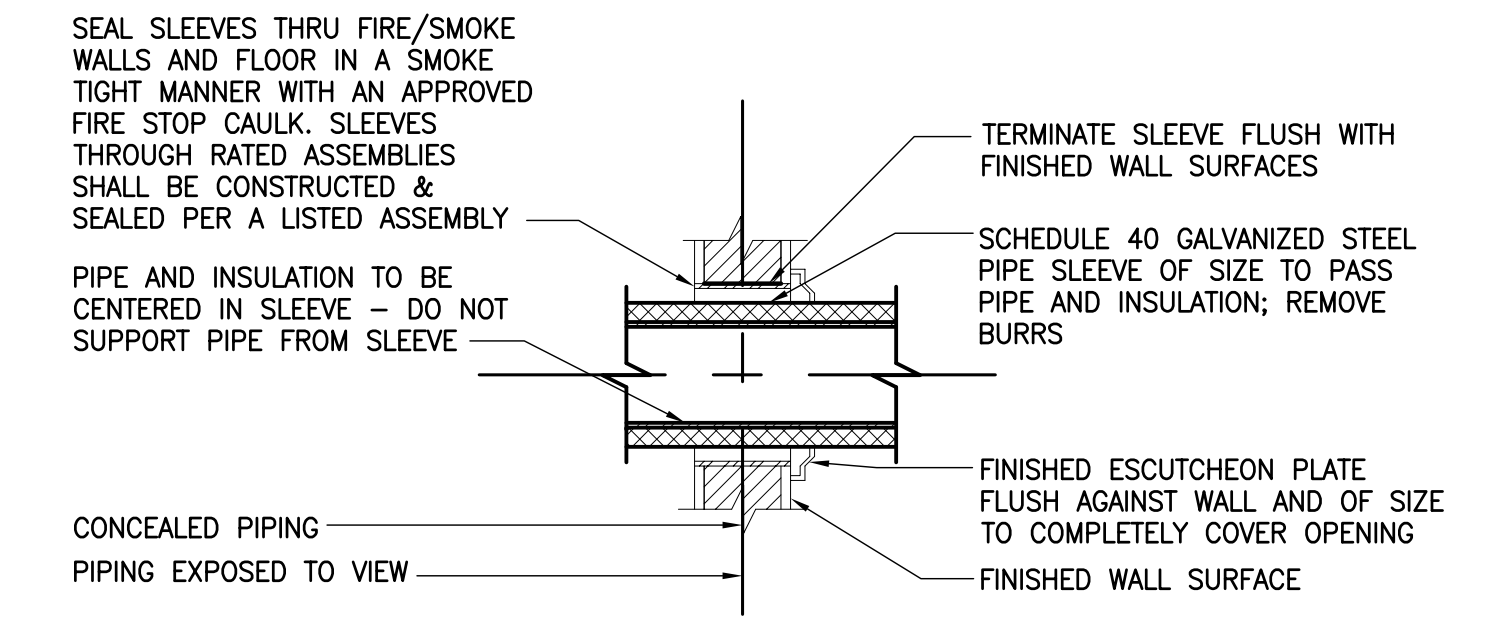
1 TYPICAL PIPE THRU EXTERIOR WALL PENETRATION SEAL BELOW GRADE DETAIL SCALE: NONE



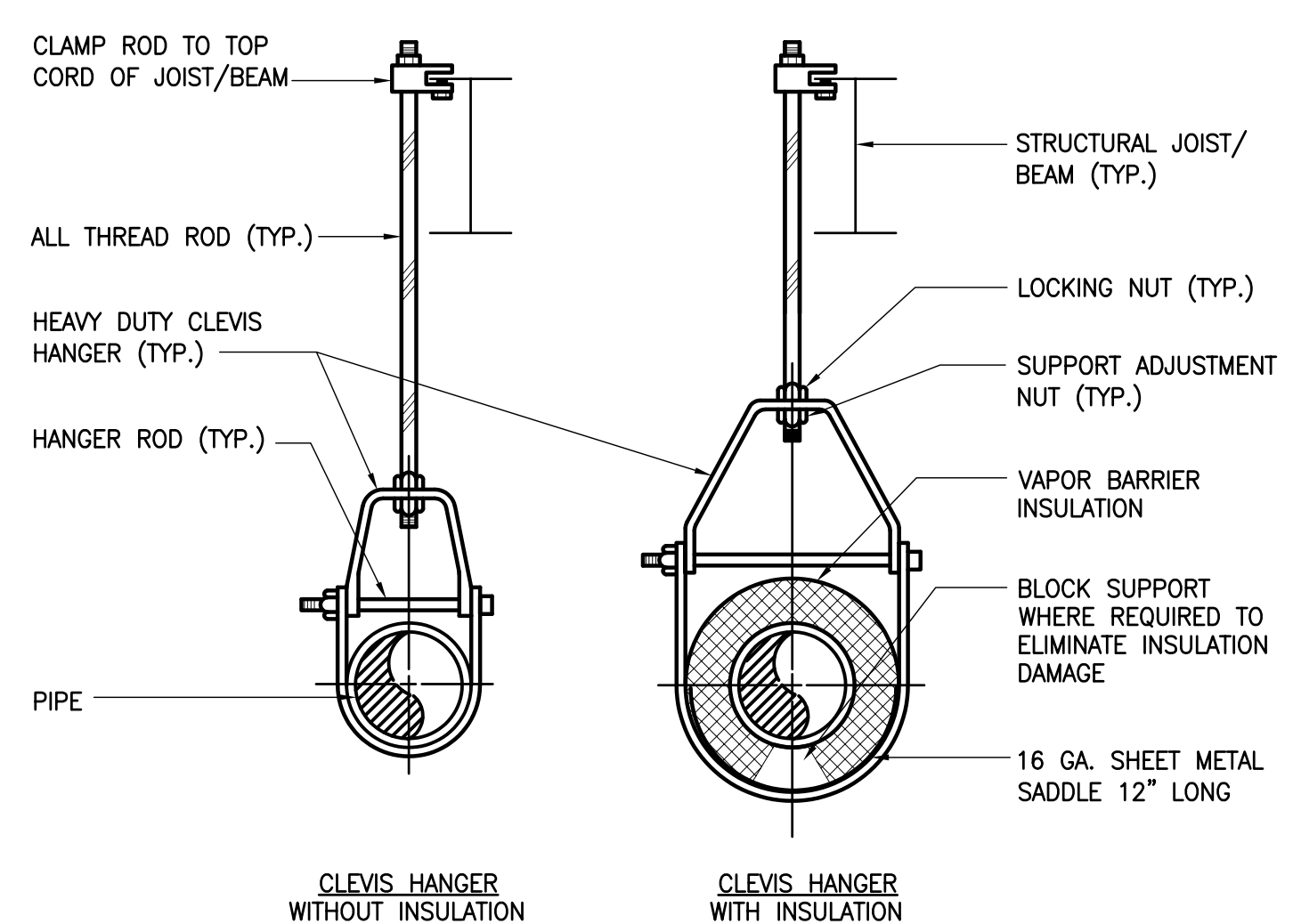
2 TYPICAL WATERTIGHT SLEEVE THRU EXTERIOR WALL ABOVE GRADE DETAIL SCALE: NONE



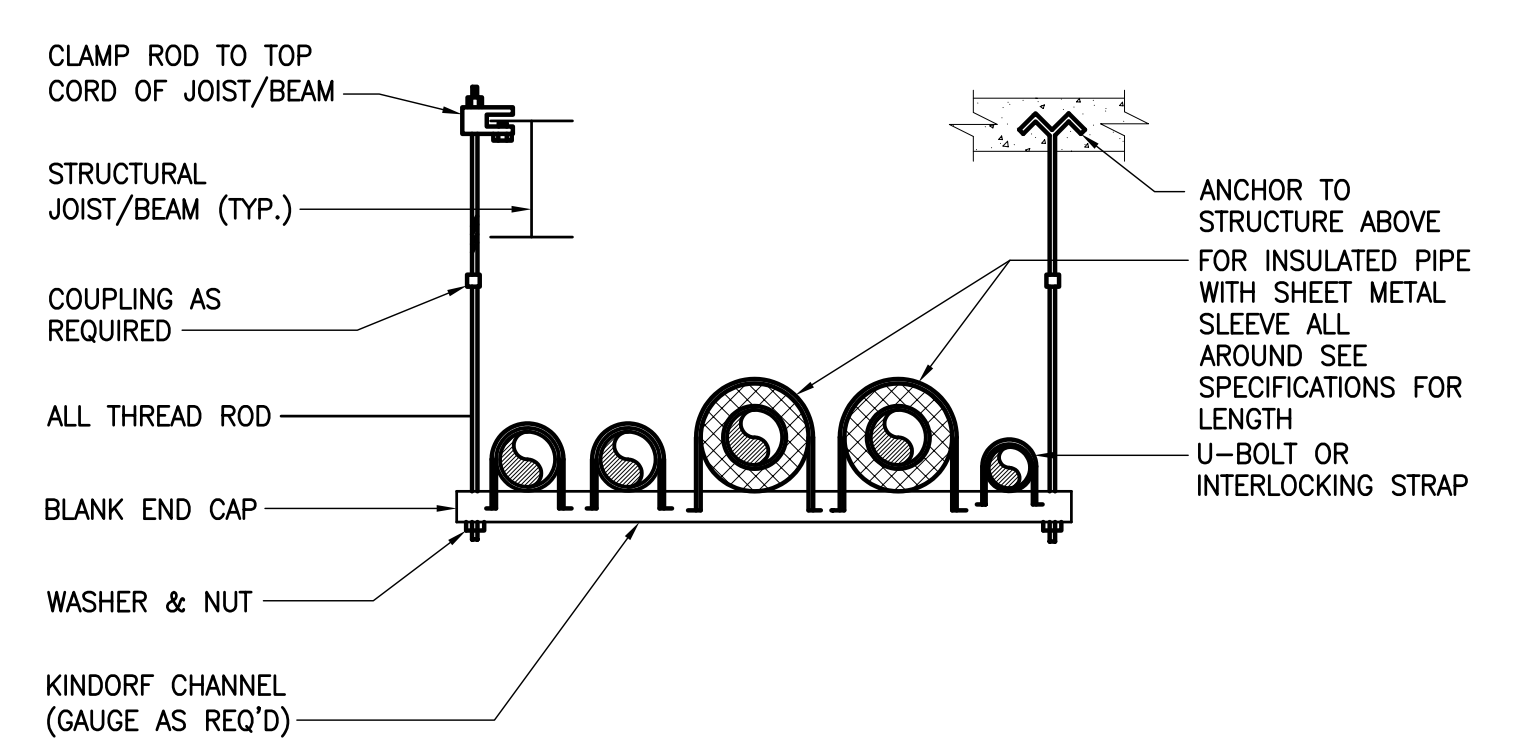
3 TYPICAL SLEEVE THROUGH FLOOR DETAIL SCALE: NONE



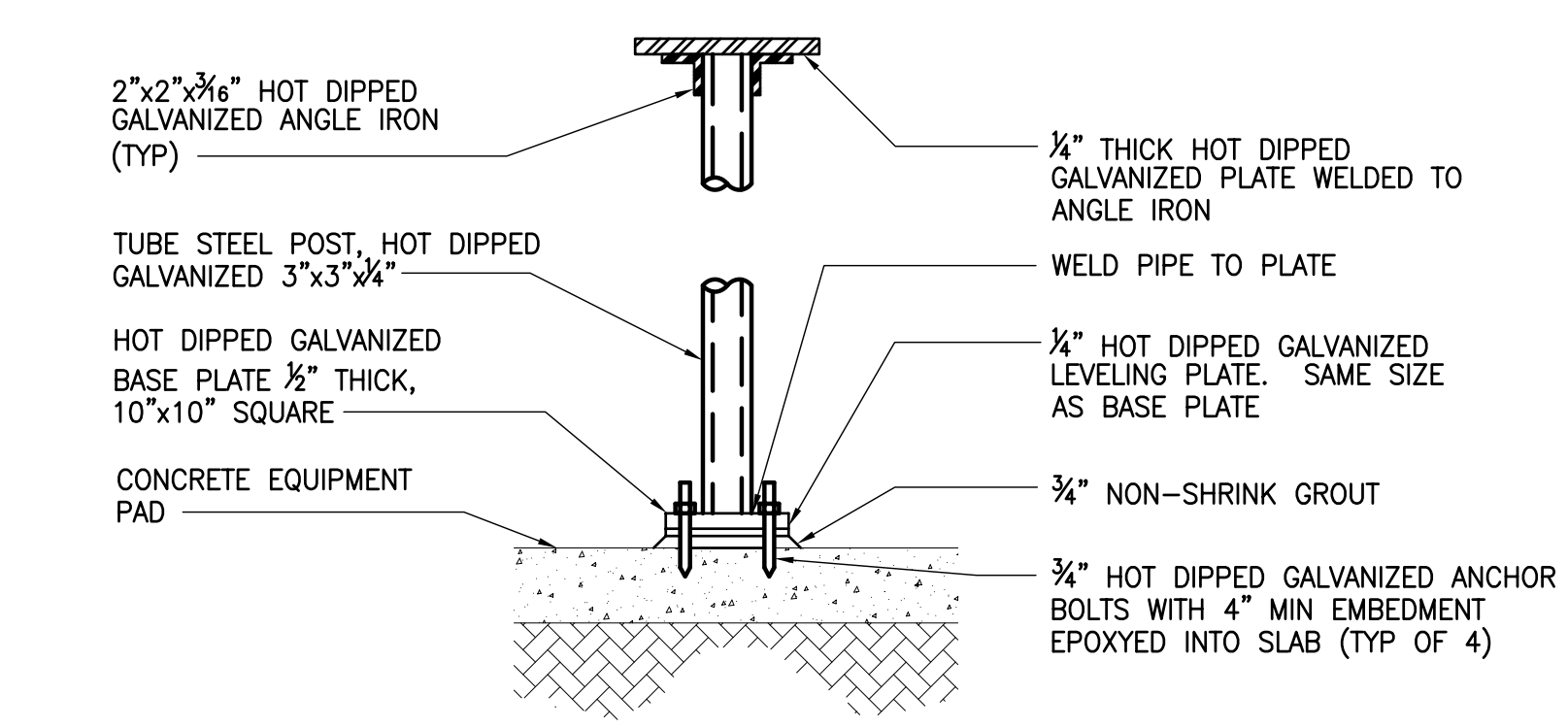
4 TYPICAL PIPE SLEEVE THRU INTERNAL WALL DETAIL SCALE: NONE



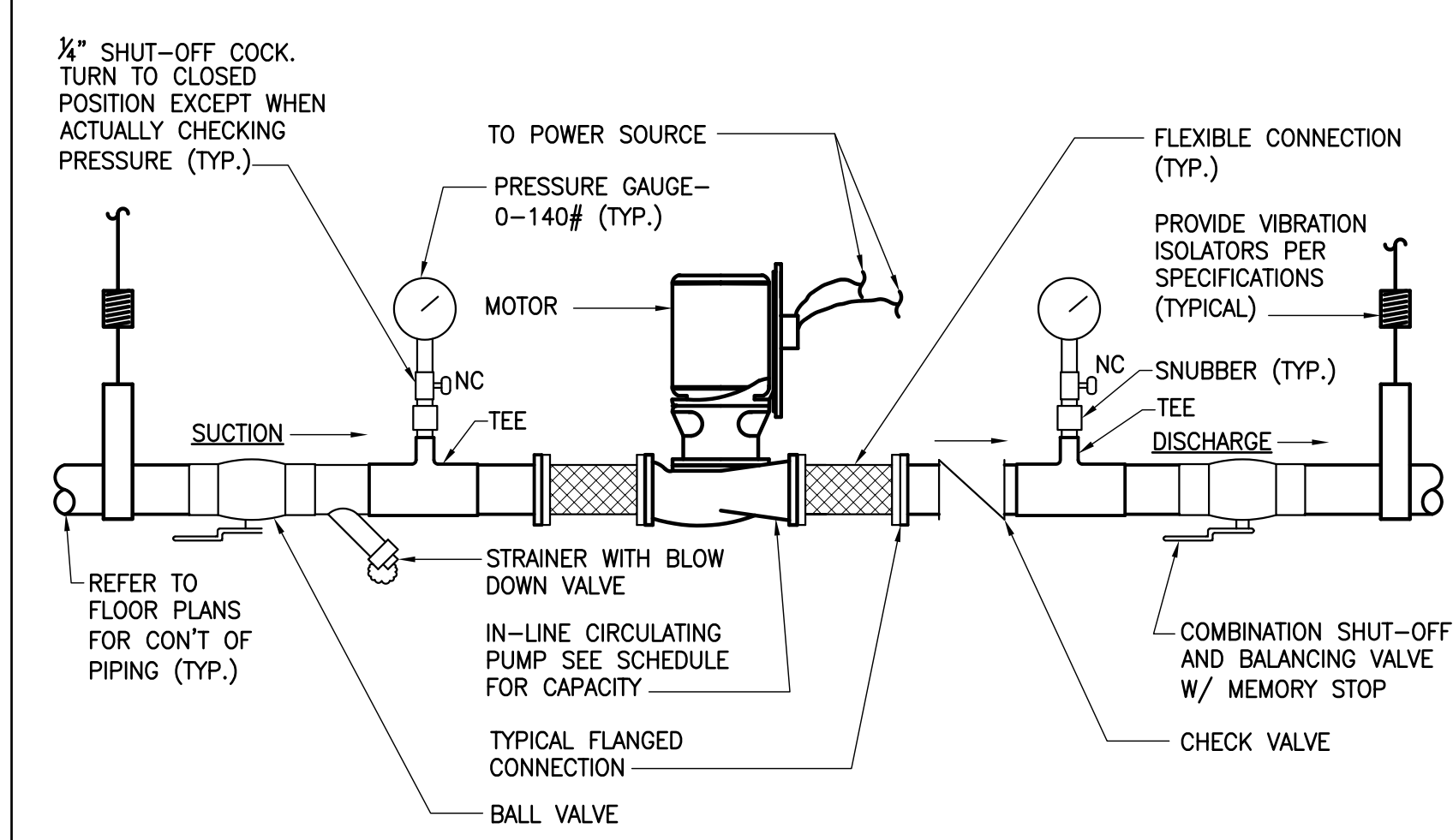
5 TYPICAL PIPE SUPPORT DETAIL SCALE: NONE



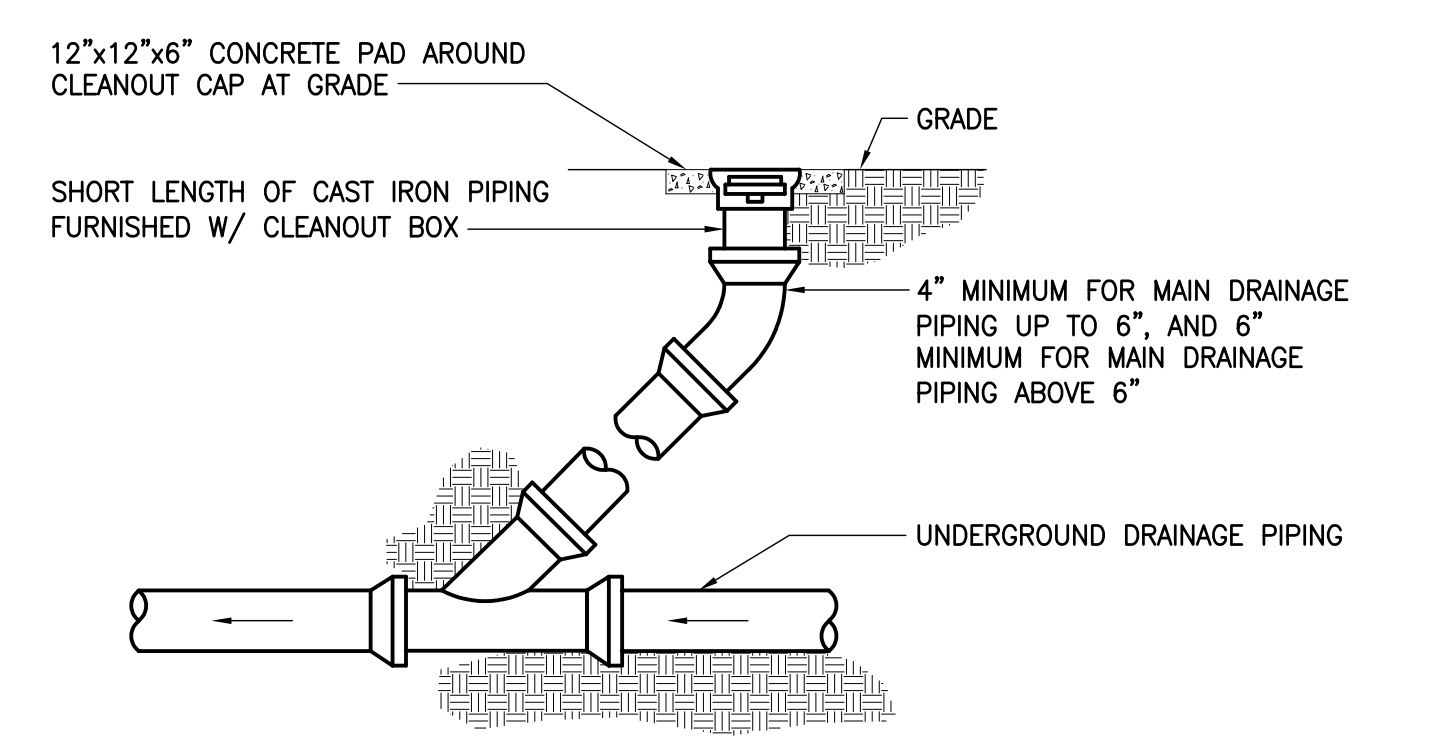
6 TYPICAL TRAPEZE PIPE SUPPORT DETAIL SCALE: NONE



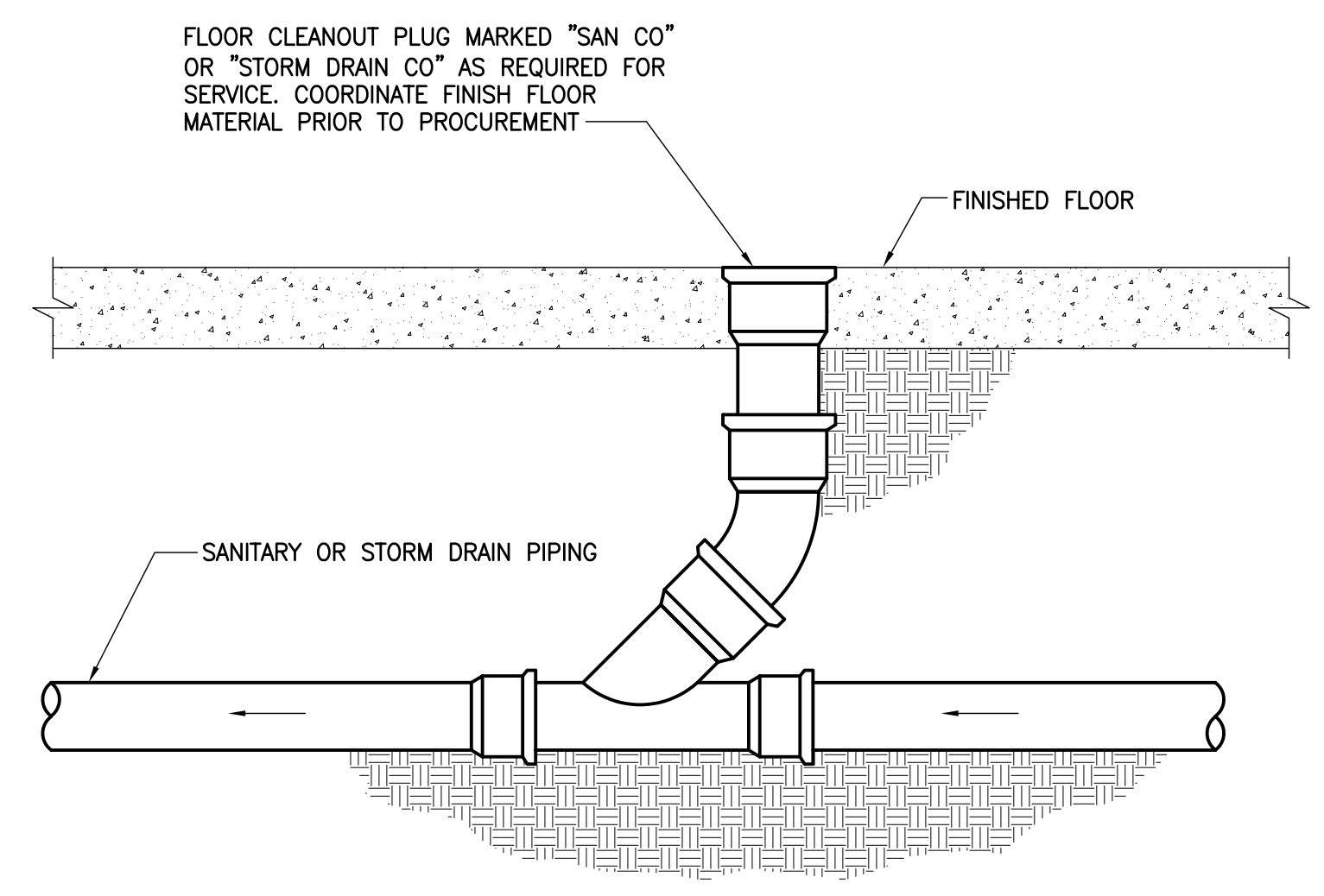
7 TYPICAL PIPE SUPPORT DETAIL SCALE: NONE



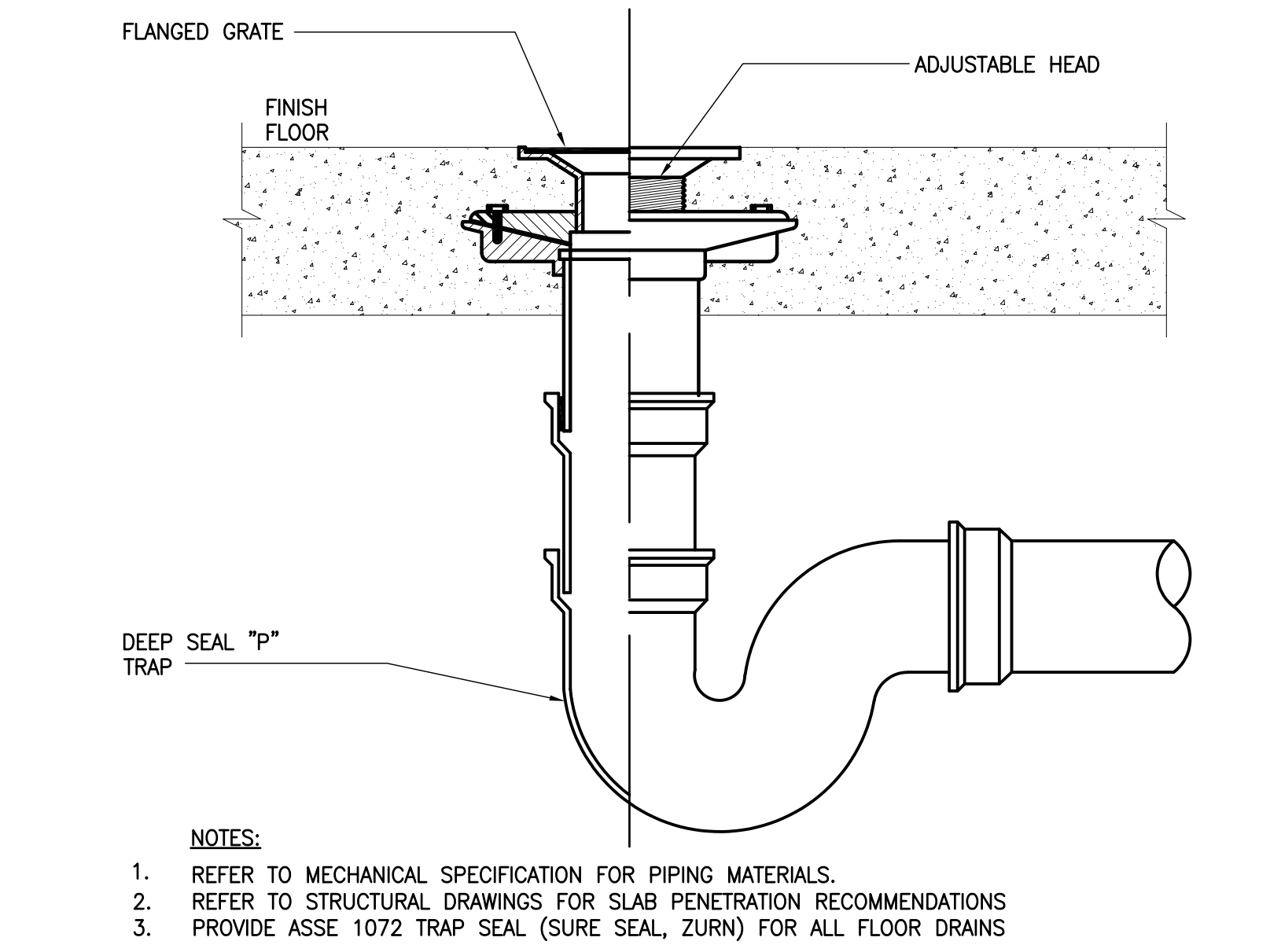
8 IN-LINE HOT WATER RECIRCULATION PUMP DETAIL SCALE: NONE



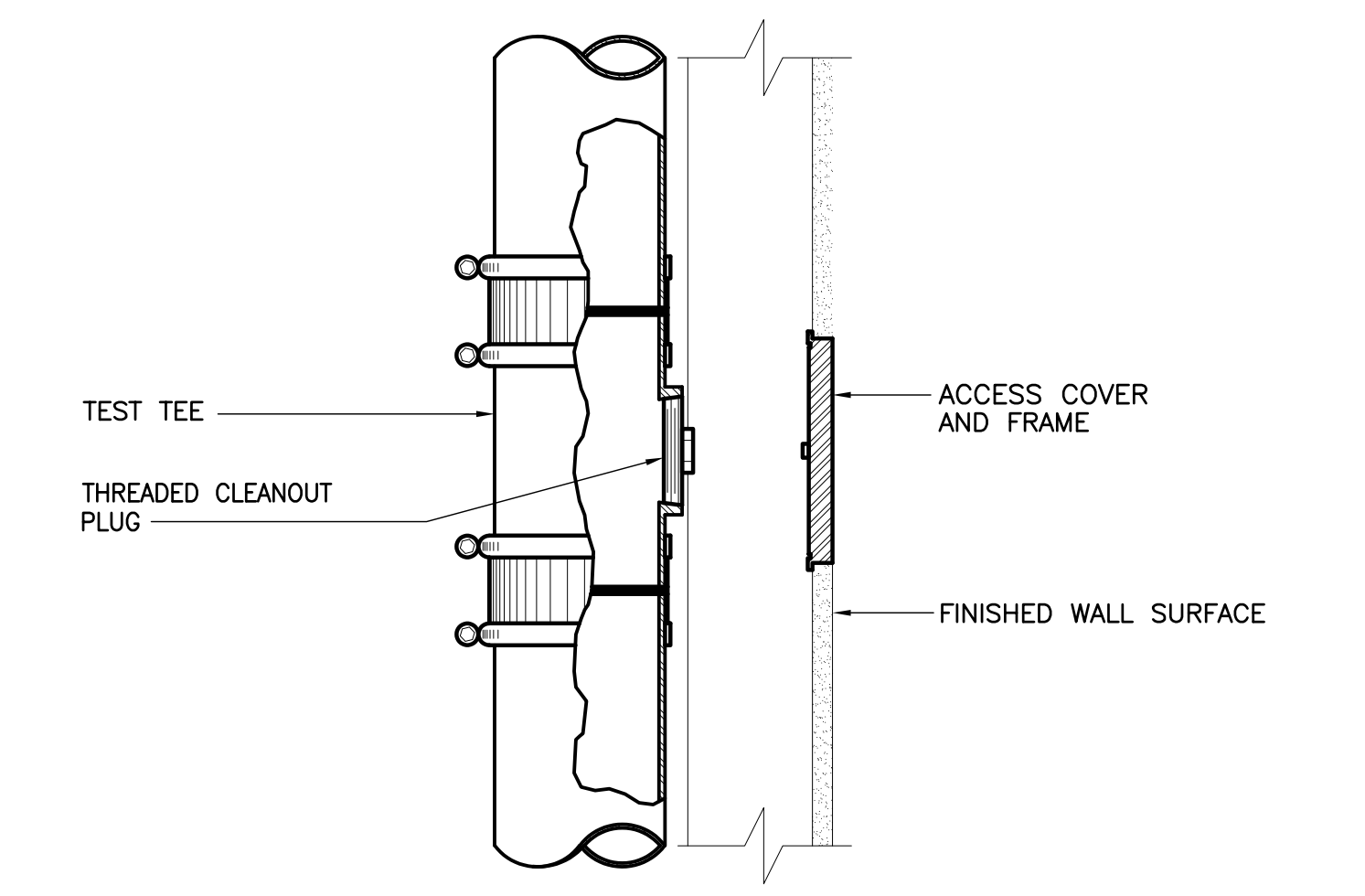
9 TYPICAL EXTERIOR CLEANOUT DETAIL SCALE: NONE



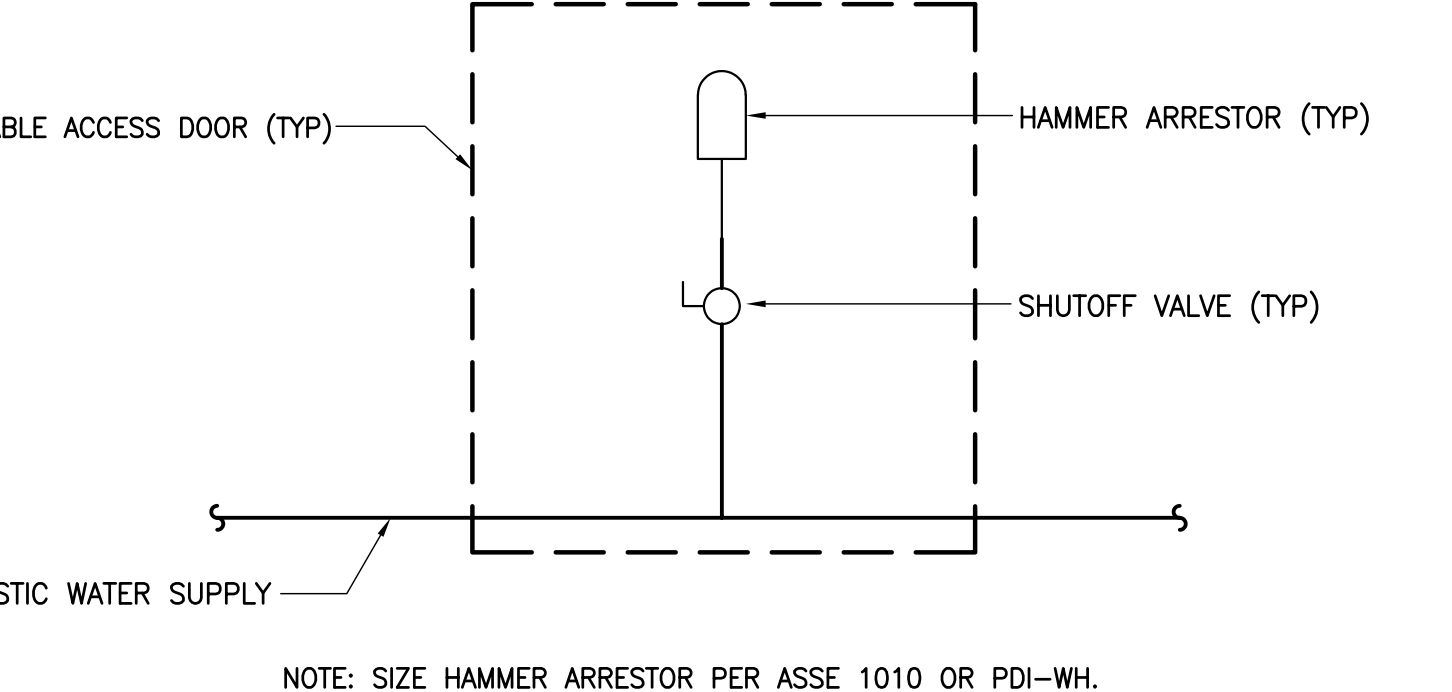
10 TYPICAL FLOOR CLEANOUT SCALE: NONE



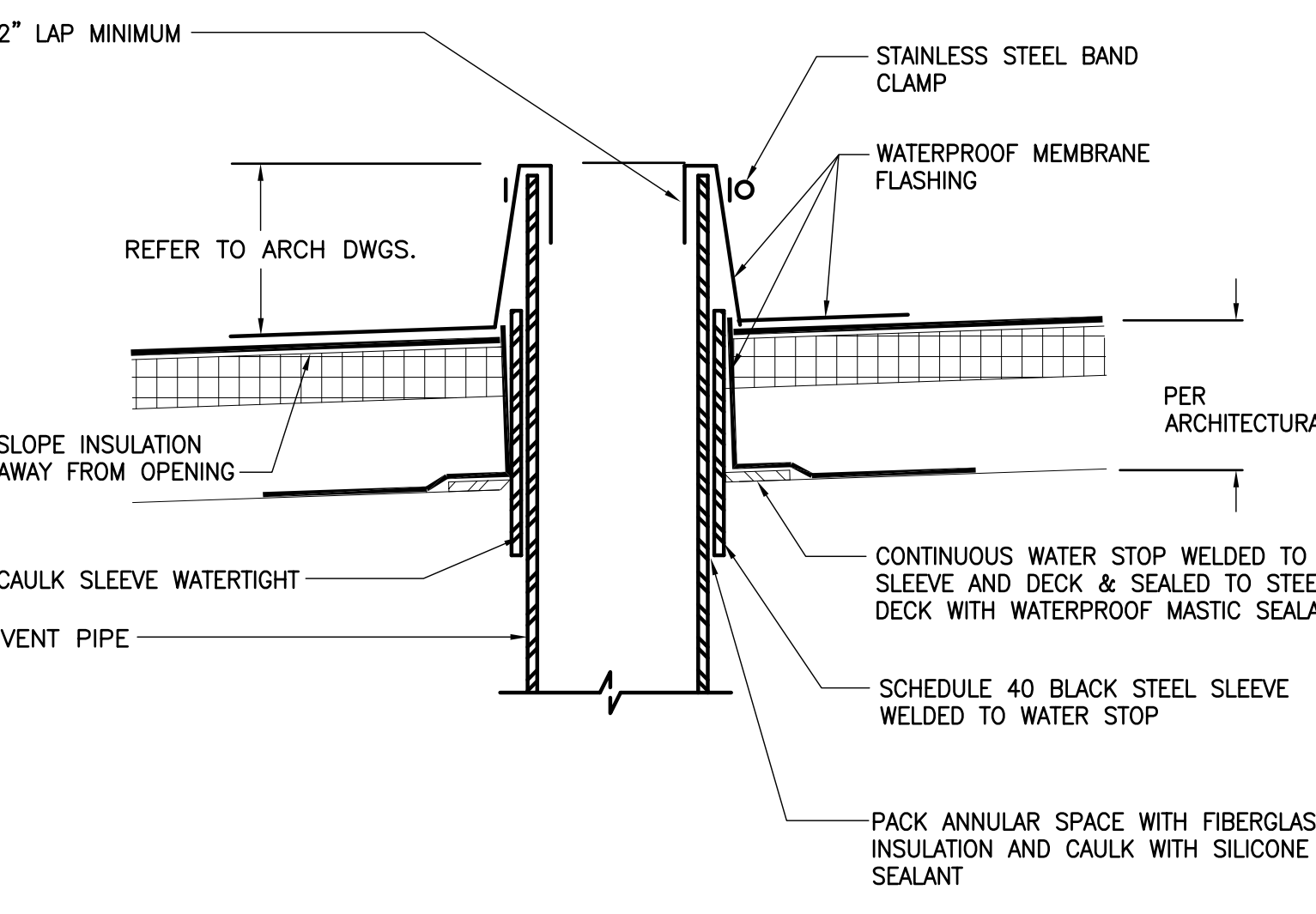
11 TYPICAL FLOOR DRAIN DETAIL SCALE: NONE



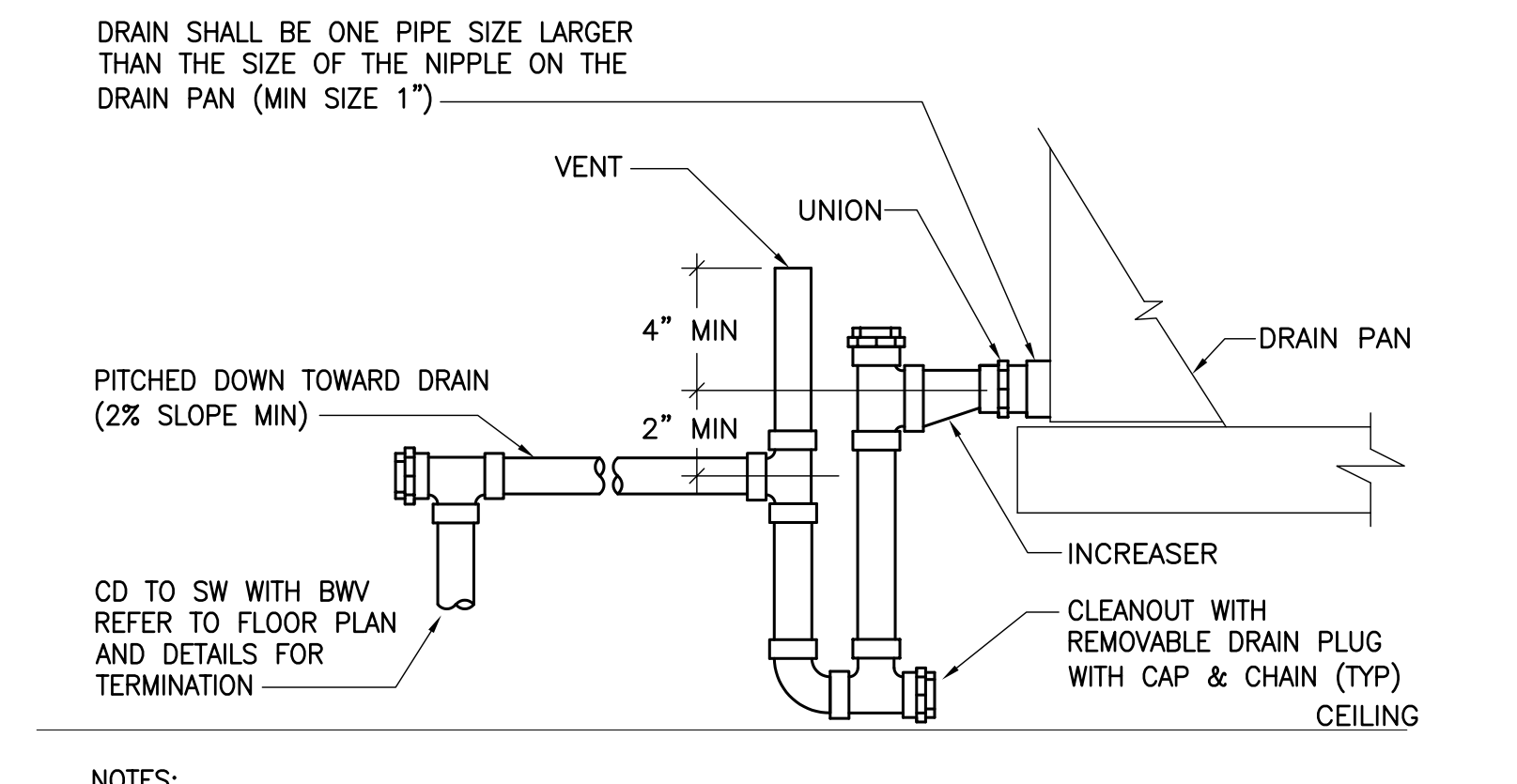
12 TYPICAL INTERIOR WALL CLEANOUT WITH ACCESS COVER DETAIL SCALE: NONE



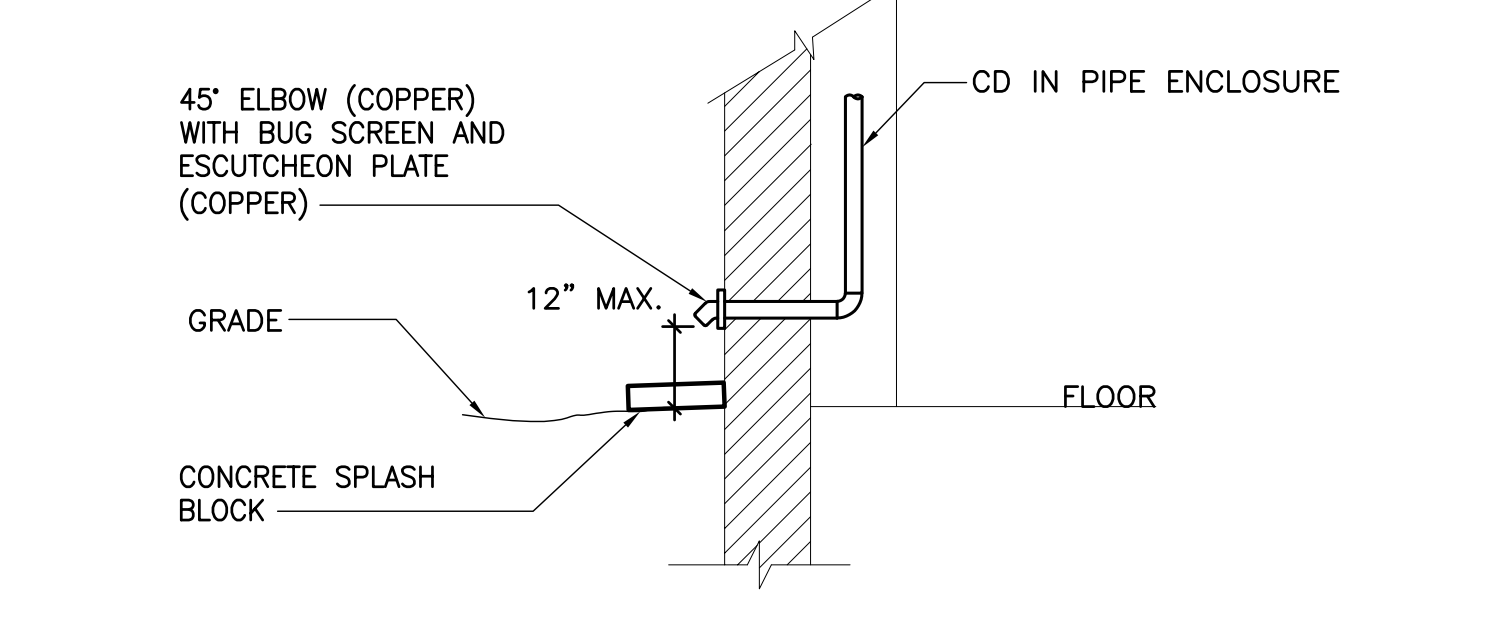
13 TYPICAL WATER HAMMER ARRESTOR PIPING AND ACCESS DETAIL SCALE: NONE



14 TYPICAL VENT PIPE THRU ROOF DETAIL SCALE: NONE



15 TYPICAL TERMINAL UNIT CONDENSATE DRAIN TRAP DETAIL SCALE: NONE



16 TYPICAL CONDENSATE DRAIN AT GRADE DETAIL SCALE: NONE

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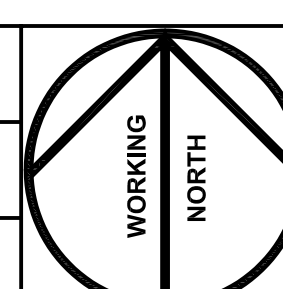
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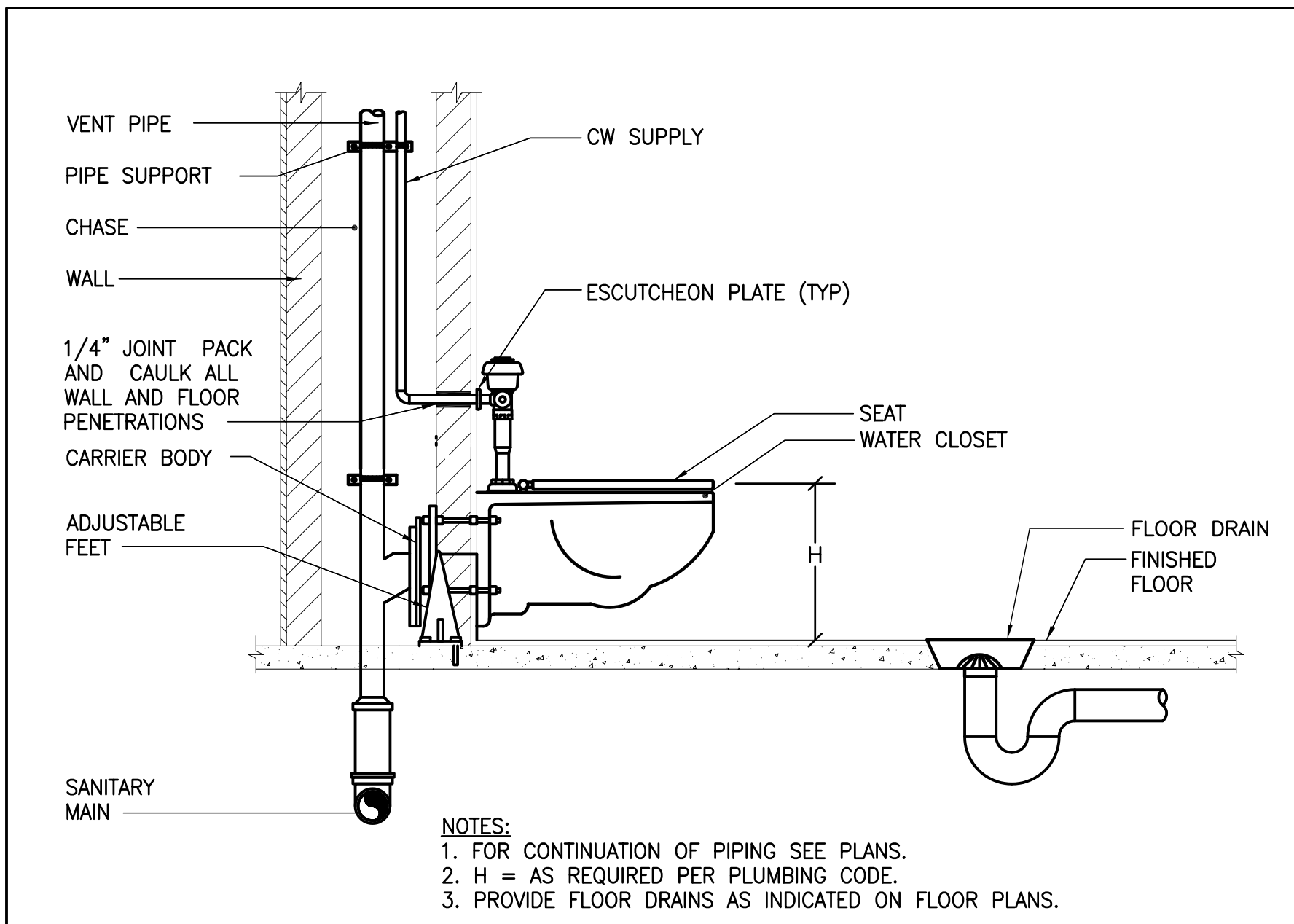
NO.	DESCRIPTION	DATE
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BID	DOCUMENTS	04/08/2024

LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING
ST. MARY'S COUNTY PUBLIC SCHOOLS

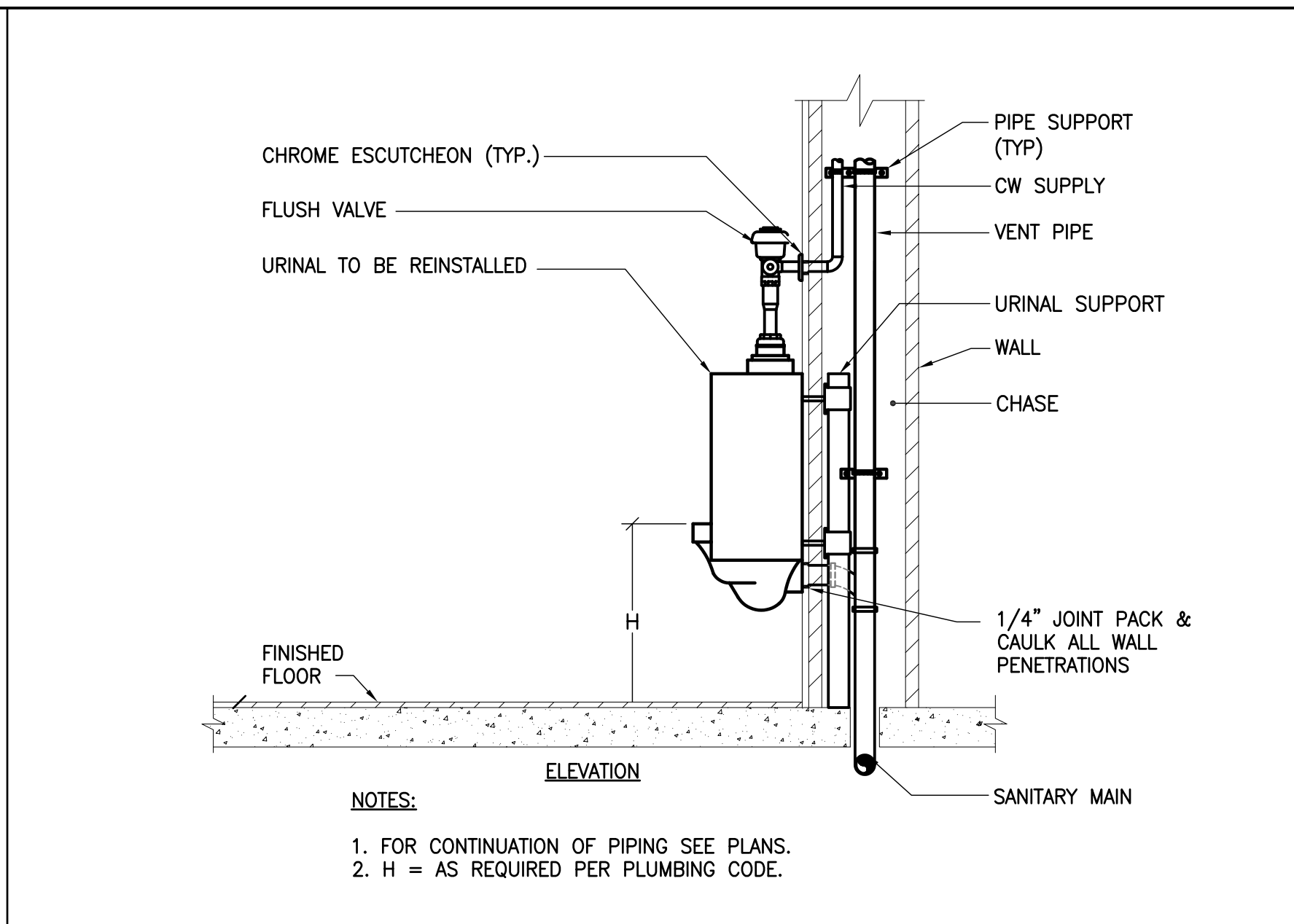
SHEET TITLE:
PIPING, SUPPORT AND EQUIPMENT DETAILS

PROJECT NO:	23010
DATE:	04/08/2024
SCALE:	As indicated
DRAWN BY:	ALBAN ENGINEERING
CHECKED BY:	ALBAN ENGINEERING
SHEET NO:	

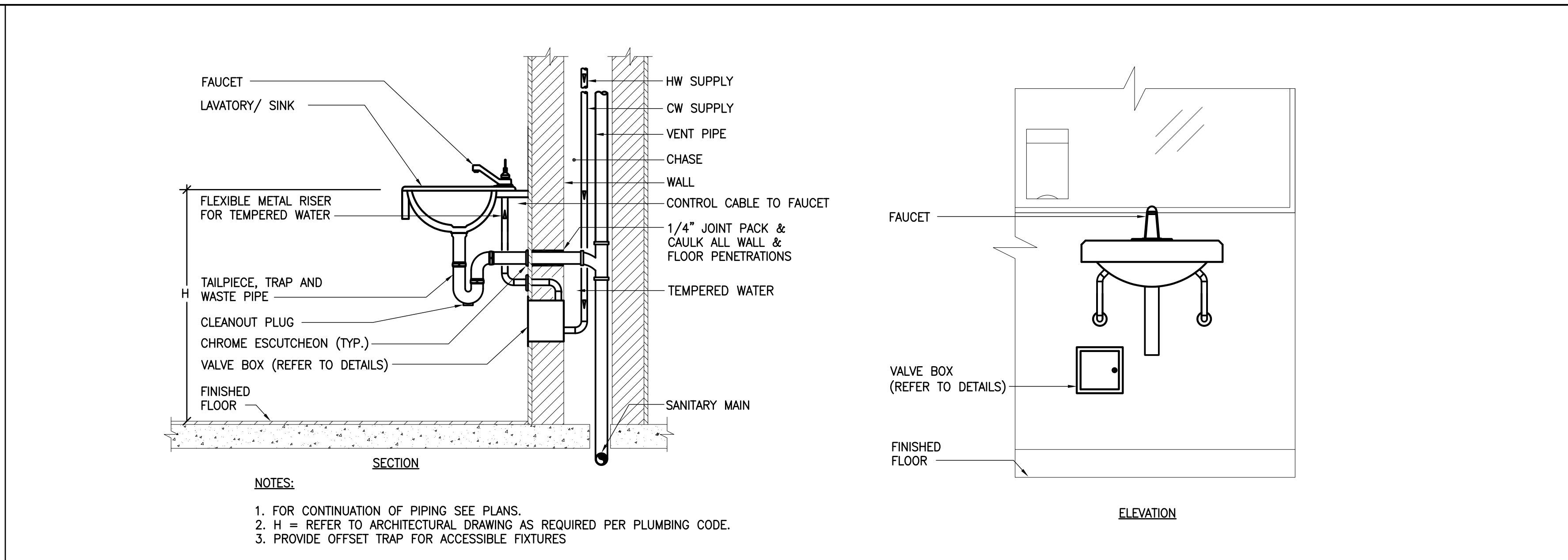




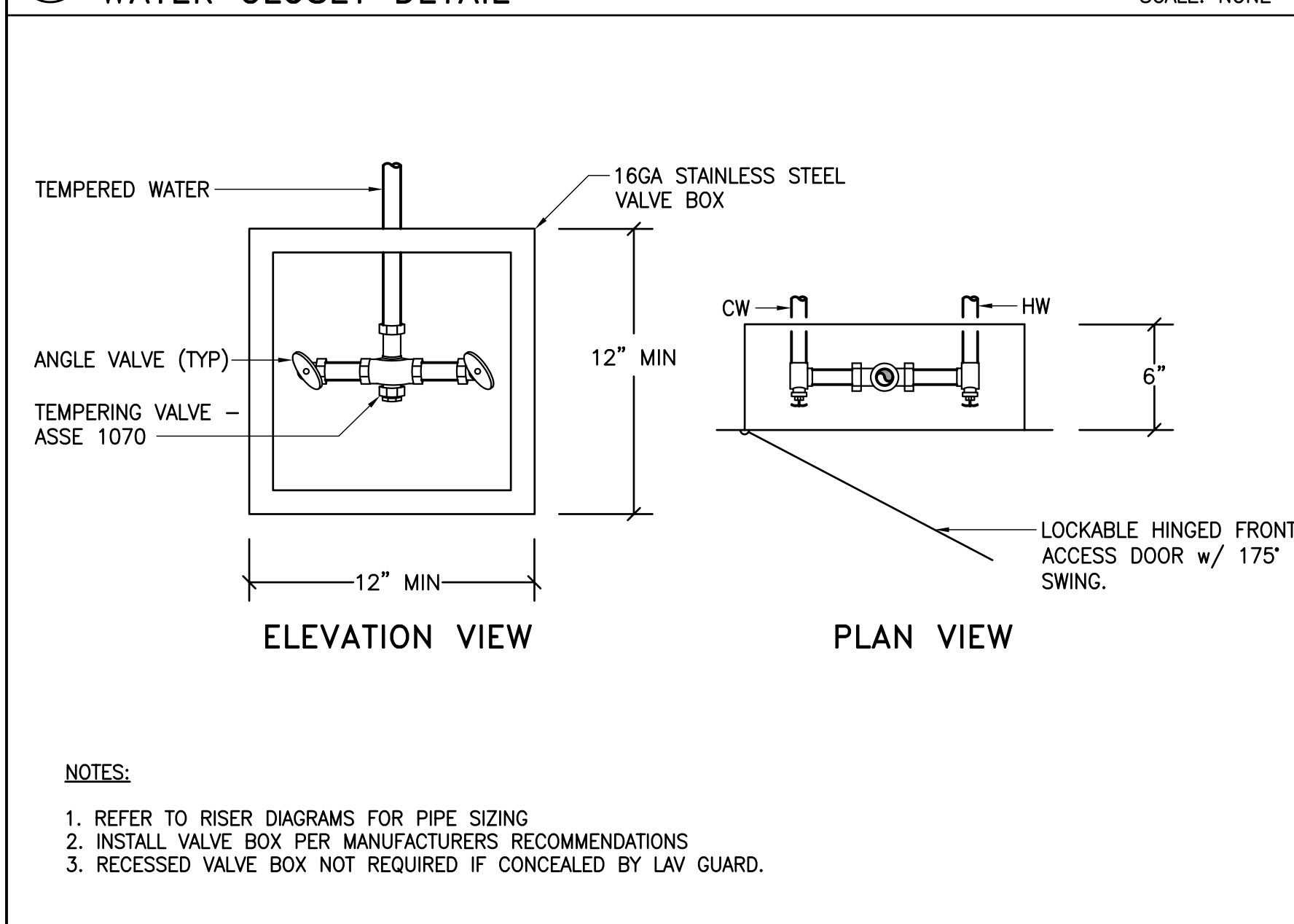
17 TYPICAL WALL MOUNTED, BACK OUTLET WATER CLOSET DETAIL SCALE: NONE



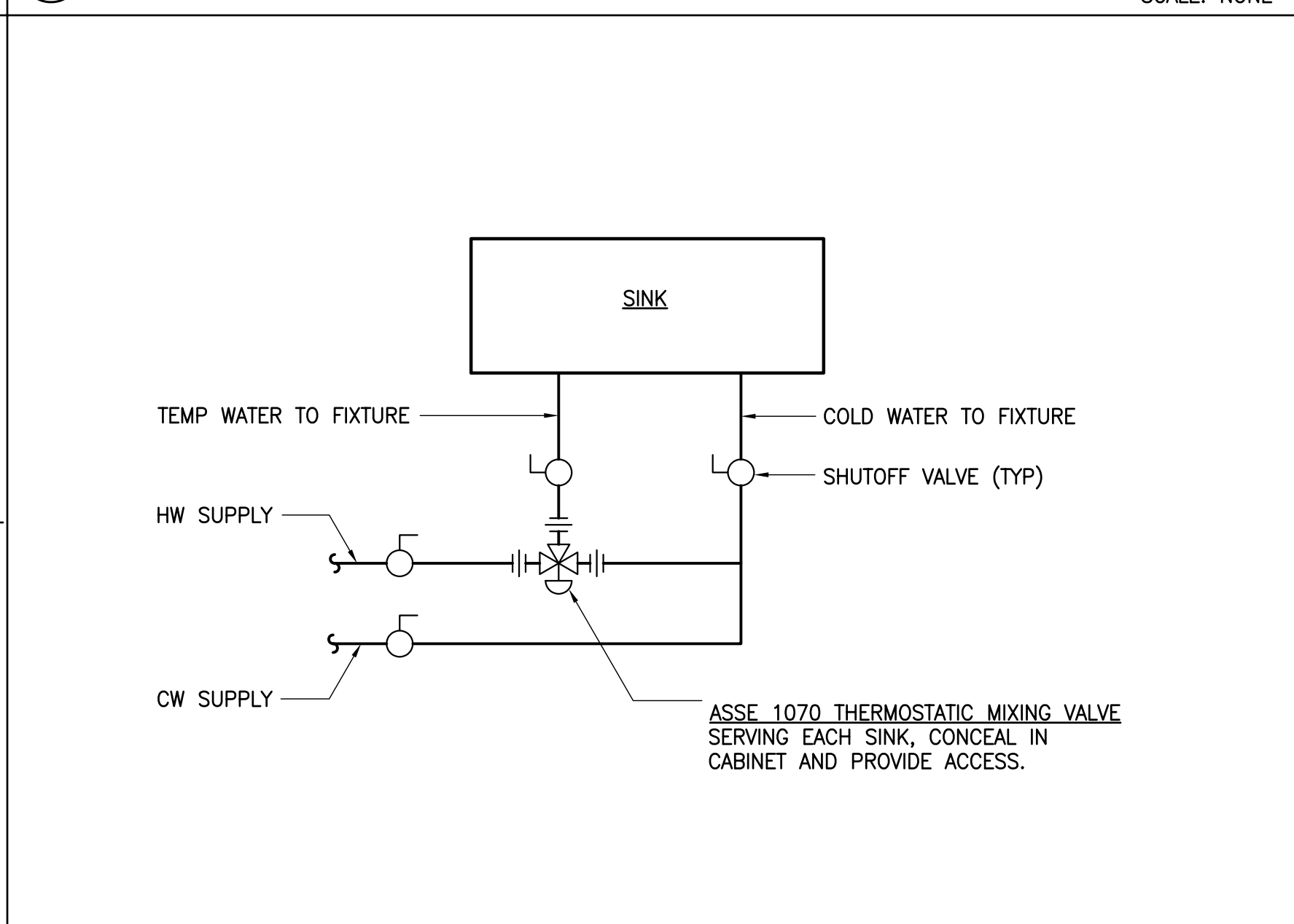
18 TYPICAL URINAL DETAIL SCALE: NONE



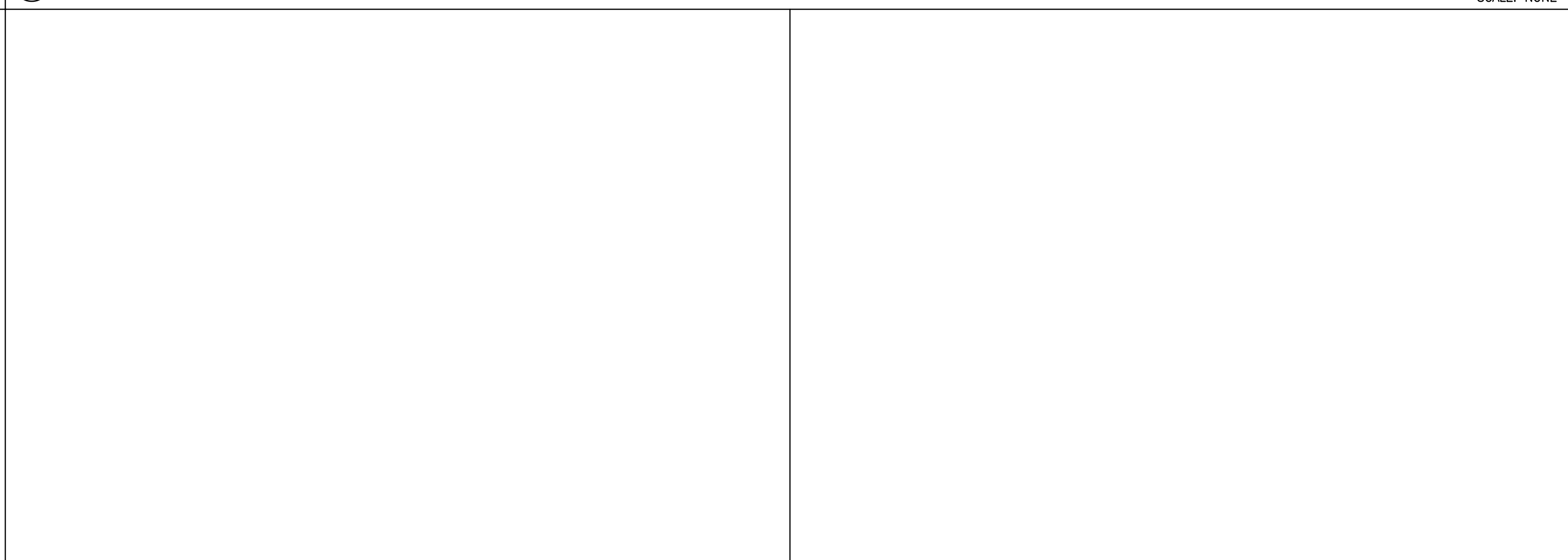
19 TYPICAL WALL MOUNTED LAVATORY DETAIL SCALE: NONE



20 TYPICAL ASSE 1070 TEMPERING VALVE BOX DETAIL SCALE: NONE



21 SINK ASSE 1070 MIXING VALVE INSTALLATION DETAIL SCALE: NONE



22 NOT USED SCALE: NONE

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23 NOT USED SCALE: NONE

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BID	DOCUMENTS	04/08/2024

LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING
ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:
PLUMBING FIXTURE PIPING DETAILS

PROJECT NO: 23010
 DATE: 04/08/2024
 SCALE: As indicated

DRAWN BY: ALBAN ENGINEERING
 CHECKED BY: ALBAN ENGINEERING

SHEET NO:
P-5

PLUMBING EQUIPMENT NOTES

1. HOT WATER GENERATOR #1 (HWG-1)

HOT WATER GENERATOR SHALL BE ULTRA HIGH EFFICIENCY, ELECTRIC TYPE, ASME TANK RATED FOR 150 PSI WORKING PRESSURE WITH A.G.A. RATED T & P VALVE. TANK CAPACITY: 50 GALLONS. ELECTRIC RATING: 15KW. RECOVERY RATE: 81 GPH @ 100°F RISE. 41.8 AMPS AT 208V/3Ø/4W/3Ø. UNIT SHALL BE UL LISTED AND SHALL MEET OR EXCEED ASHRAE/IES-90.1-2016 BASIS OF DESIGN AS SMITH MODEL DRE-52.

2. WATER TEMPERING DEVICE

WTD-1: PROVIDE FOR ALL FIXTURES FOR WHICH HOT WATER IS PROVIDED. TEMPER WATER TO 110°F. ASSE 1070 RATED, NSF-61 CERTIFIED. WATTS MODEL LFMMV OR APPROVED EQUAL.

PLUMBING FIXTURE SCHEDULE											
DESIG.	FIXTURE	ROUGH-IN CONNECTION				FIXTURE UNIT VALUES			GPM FLOW RATE	WATER TEMPERING DEVICE (WTD)	REMARKS
		C.W.	H.W.	SAN.	VENT	C.W.	H.W.	SAN.			
P1	WATER CLOSET	1"	---	4"	2"	10	---	6	1.28 GPF	---	STANDARD; WALL MOUNTED, BACK OUTLET
P1A	WATER CLOSET	1"	---	4"	2"	10	---	6	1.28 GPF	---	ADULT ADA ACCESSIBLE; WALL MOUNTED, BACK OUTLET
P2	URINAL (WIH)	3/4"	---	2"	1 1/2"	5	---	4	0.125 GPF	---	STANDARD
P2A	URINAL (WIH)	3/4"	---	2"	1 1/2"	5	---	4	0.125 GPF	---	ADULT ADA ACCESSIBLE
P3	LAVATORY (WIH)	1/2"	1/2"	1 1/2"	1 1/2"	1.5	1.5	1	0.35	WTD-1	ADULT ADA ACCESSIBLE
P4	MOP SINK	3/4"	3/4"	3"	1 1/2"	2.25	2.25	2	4.0	WTD-1	
P5	HAND SINK (WIH)	1/2"	1/2"	1 1/2"	1 1/2"	1.5	1.5	1	0.5	WTD-1	ADULT ADA ACCESSIBLE
P5A	3-COMPARTMENT SINK	1/2"	1/2"	1 1/2"	1 1/2"	1.5	1.5	1	1.0	WTD-1	TRIPLE COMPARTMENT
P6	ELECTRIC WATER COOLER	1/2"	---	1 1/2"	1 1/2"	0.25	---	0.5	---	---	ADA ACCESSIBLE, BI-LEVEL, BOTTLE FILLER, OUTDOOR

NOTES:

- 1) WIH = WALL HUNG
- 2) LOCATE ROUGH IN FOR HANDICAPPED TOILETS SO THAT FLUSH VALVE HANDLE IS IN THE WIDE SIDE OF THE STALL.
- 3) SLAB ON GRADE FIXTURE DRAINS SHALL BE 2" MINIMUM.
- 4) ALL ACCESSIBLE LAVS AND SINKS SHALL BE PROVIDED WITH PREFORMED PIPE INSULATION KIT (TRUBRO OR EQUAL).

PUMP SCHEDULE									
NO.	SERVICE	LOCATION	GPM	FT. OF HEAD	HP	RPM	ELECT. CHAR.	TYPE	REMARKS (BASED ON)
							V/φ/Hz		
RP-1	HOT WATER RECIRCULATION (CUSTODIAL C105)	MECHANICAL RM	2	9	1/40	3250	120/1/60	IN-LINE CIRCULATOR	TACO MODEL 006-IQBCA

NOTES:

- 1) ALL CIRCULATOR PUMPS SHALL BE ALL BRONZE OR STAINLESS STEEL CONSTRUCTION; LEAD FREE AS CERTIFIED BY NSF 61 & HB 372.

ARCHITECT



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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland. License No.: 45531, Expiration Date: 6/3/2024.

PROFESSIONAL SEAL:

PRINTS ISSUED

NO.	DESCRIPTION	DATE
CD	COORDINATION SET	12/06/2023
CD	90% SET	12/19/2023
BID	DOCUMENTS	04/08/2024

LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING

ST. MARY'S COUNTY PUBLIC SCHOOLS

PLUMBING SCHEDULES AND EQUIPMENT NOTES

PROJECT NO: 23010	
DATE: 04/08/2024	
SCALE: 12" = 1'-0"	
DRAWN BY: Author	
CHECKED BY: Checker	
SHEET NO:	

P-6

ELECTRICAL LEGEND:
(MOUNTING HEIGHTS ARE TO TOP OF DEVICE U.O.N.)

LIGHTING

LIGHT FIXTURE. TYPE AS SPECIFIED. REFER TO LIGHT FIXTURE SCHEDULE.

EMERGENCY BATTERY PACK. TYPE AS SPECIFIED. REFER TO LIGHT FIXTURE SCHEDULE. MOUNT AT 7'-6" A.F.F. U.O.N. CONNECT TO BRANCH LIGHTING CIRCUIT SERVING AREA LOCATED IN AHEAD OF ALL CONTROLS FOR POWER MONITORING AND BATTERY CHARGING WITH 2#12 + #12 GW IN 3/4" C. MINIMUM.

SWITCHES
(MOUNTING HEIGHTS TO TOP OF DEVICE)

LINE VOLTAGE TOGGLE SWITCH. MOUNT AT 48" A.F.F. U.O.N.

LOW VOLTAGE SWITCH. "4" INDICATES NUMBER OF BUTTONS. MOUNT AT 48" A.F.F. U.O.N. PROVIDE BACK BOX WITH 3/4" EMPTY CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING TERMINATED IN BUSHED END. PROVIDE ASSOCIATED ROOM CONTROLLER, WATTSTOPPER LMRC-210 SERIES OR APPROVED EQUALS. ENGRAVE BUTTONS AS ON, RAISE, LOWER, OFF.

KEY OPERATED SWITCH. MOUNT AT 48" A.F.F. U.O.N. PROVIDE ALL KEYED SWITCHES WITH EXACT SAME KEY. QUANTITY OF KEYS FOR PROJECT SHALL BE PER OWNERSHIP.

OCCUPANCY SENSOR, LOW VOLTAGE WITH POWER PACK, DUAL TECHNOLOGY, CEILING MOUNTED, 1000sq ft COVERAGE MINIMUM. WATTSTOPPER DT-300 SERIES OR APPROVED EQUALS. FAIL TO ON TYPE. TIME DELAY PER OWNERSHIP.

OCCUPANCY SENSOR, LINE VOLTAGE, DUAL TECHNOLOGY, CEILING MOUNTED, 1000sq ft COVERAGE MINIMUM. WATTSTOPPER DT-355 SERIES OR APPROVED EQUALS. FAIL TO ON TYPE.

DUAL TECHNOLOGY, SINGLE LEVEL WALL SWITCH SENSOR COMBINATION WITH MANUAL ON, AUTO OFF SETTING AND PUSHBUTTON FOR MANUAL ON/OFF. CAPABLE OF THREE WAY SWITCHING CONFIGURATION. NEUTRAL REQUIRED. TIME DELAY PER OWNERSHIP. WATTSTOPPER DSW-301 SERIES OR APPROVED EQUALS. FAIL TO ON TYPE. MOUNT AT 48" A.F.F. U.O.N.

DUAL TECHNOLOGY, DUAL RELAY, WALL SWITCH SENSOR COMBINATION WITH MANUAL ON, AUTO OFF SETTING AND PUSHBUTTON FOR MANUAL ON/OFF. RATED FOR 14 HP MOTOR LOAD WITH SEPARATE TIME DELAY FUNCTION. WATTSTOPPER DSW-302 SERIES. NEUTRAL REQUIRED. TIME DELAY PER OWNERSHIP. FAIL TO ON TYPE. MOUNT AT 48" A.F.F. U.O.N.

OUTLETS

DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; MOUNT AT 18" A.F.F. U.O.N. SUBSCRIPT DENOTES INDICATES BRANCH CIRCUIT CONNECTION. REFER TO SPECIFICATIONS AND THIS DRAWING FOR WIRE AND CONDUIT REQUIREMENTS.

DOUBLE DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; MOUNT AT 18" A.F.F. U.O.N. SUBSCRIPTS: USB - PROVIDE USB IN FACEPLATE

DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; GROUND FAULT INTERRUPTER MOUNT AT 18" A.F.F. U.O.N.

SPECIAL RECEPTACLE; TYPE AS NOTED; MOUNT AT 18" A.F.F. U.O.N.

SLASH INDICATES DEVICE TO BE MOUNTED AT 42" A.F.F. OR 6" ABOVE COUNTER U.O.N.

DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; WEATHERPROOF AND WEATHER RESISTANT, GROUND FAULT INTERRUPTER; MOUNT AT 18" A.F.F. U.O.N.

POWER

PANELBOARD; RECESSED, SURFACE MOUNTED. MOUNT AT 5'-6" A.F.F. TO TOP OF PANEL.

SINGLE POLE MANUAL MOTOR STARTING SWITCH WITH HOA SWITCH; MOUNT AT 48" A.F.F. IN NEMA 1 ENCLOSURE U.O.N.

MOTOR; TYPE AS NOTED.

SAFETY DISCONNECT SWITCH - FUSED, NON-FUSED. MOUNT AT 48" A.F.F. U.O.N. FUSED AS NOTED. REFER TO SPECIFICATION FOR NEMA RATING.

ENCLOSED CIRCUIT BREAKER. MOUNT AT 5'-6" A.F.F. TO TOP U.O.N. FUSE SIZE AS NOTED. REFER TO SPECIFICATIONS FOR NEMA RATING.

JUNCTION BOX - CEILING MOUNTED, WALL MOUNTED. TYPE AS NOTED.

CORD REEL.

EPO PUSHBUTTON. MOUNT AT 48" A.F.F. U.O.N.

TRANSFORMER.

SURGE PROTECTION DEVICE.

CONDUIT

HOMERUN TO PANELBOARD; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES.

BRANCH CIRCUIT CONDUIT AND WIRING CONCEALED IN CEILING OR WALL SPACE, OR SURFACE MOUNTED WHERE NO CEILING OR WALL SPACE EXISTS. REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES.

BRANCH CIRCUIT CONDUIT AND WIRING IN SLAB, UNDER FLOOR OR UNDERGROUND. REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES.

MISCELLANEOUS

REFERENCE TO DRAWING NOTE.

DETAIL REFERENCE: DETAIL NUMBER/DRAWING NUMBER

ELEVATION VIEW REFERENCE.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (EUHs)

EQUIPMENT DESIG.	ELECTRICAL CHARACTERISTICS			CIRCUIT DESIG.	MECS NOTES
	VOLTAGE	φ	AMPS		

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (ERCPS)

EQUIPMENT DESIG.	ELECTRICAL CHARACTERISTICS			CIRCUIT DESIG.	MECS NOTES
	VOLTAGE	φ	AMPS		
ERC-P-1	120 V	1	2.6 A	0.3 kVA	CB-39

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (FCUs)

EQUIPMENT DESIG.	ELECTRICAL CHARACTERISTICS			CIRCUIT DESIG.	MECS NOTES
	VOLTAGE	φ	AMPS		
FCU-1	208 V	3	36.0 A	13.0 kVA	CB-18,20,22
FCU-2	208 V	3	33.0 A	11.9 kVA	CB-23,25,27

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (ERUs)

EQUIPMENT DESIG.	ELECTRICAL CHARACTERISTICS			CIRCUIT DESIG.	MECS NOTES
	VOLTAGE	φ	AMPS		
ERU-1	208 V	3	10.80 A	3.89 kVA	CB-24,26,28

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (FANs)

EQUIPMENT DESIG.	ELECTRICAL CHARACTERISTICS			CIRCUIT DESIG.	MECS NOTES
	VOLTAGE	φ	AMPS		
F-1	120 V	1	1.0 A	0.1 kVA	CB-38
F-2	120 V	1	1.0 A	0.1 kVA	CB-38

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (PUMPs)

EQUIPMENT DESIG.	ELECTRICAL CHARACTERISTICS			CIRCUIT DESIG.	MECS NOTES
	VOLTAGE	φ	AMPS		
RP-1	120 V	1	1.0 A	0.1 kVA	CB-38

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (HWGs)

EQUIPMENT DESIG.	ELECTRICAL CHARACTERISTICS			CIRCUIT DESIG.	MECS NOTES
	VOLTAGE	φ	AMPS		
HWG-1	208 V	3	41.6 A	15.0 kVA	CB-17,19,21

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL	VOLTS	MAX. ALLOCATED WATTAGE	LAMPS	MOUNTING	REMARKS
E	THERMOPLASTIC STYLE LED EMERGENCY BATTERY UNIT WITH UNIVERSAL MOUNTING, TWO HIGH PERFORMANCE 6 WATT LED LAMPHEADS, POLYCARBONATE OPTICS, FIELD SELECTABLE VOLTAGE, HIGH CAPACITY MAINTENANCE FREE LITHIUM IRON PHOSPHATE BATTERY, TEST SWITCH, STATUS INDICATOR, LVCO, BROWN OUT SENSING, LINE LATCH FUNCTION, UL924 LISTED, DAMP LOCATION LISTED AND WHITE FINISH.	EVENLITE	TEBL6W SERIES	277 V	12.0 W	LED, 600lms EACH	WALL, SURFACE AT 8'-0" A.F.F.	
E1	SIMILAR TO TYPE 'E' EXCEPT WITH REDUCED LUMEN OUTPUT TO ALLOW FOR ADDITIONAL BATTERY CAPACITY (5 WATTS MINIMUM) TO POWER REMOTE HEAD(S) [TYPE 'ER']	EVENLITE	TEBL5W SERIES	277 V	15.0 W	LED, 300lms EACH	WALL, SURFACE AT 8'-0" A.F.F.	
ER	REMOTE EMERGENCY HEAD WITH DIE CAST ALUM. CONSTRUCTION, GASKETED MOUNTING PLATE, FULLY ADJUSTABLE WITH LOCKING SET SCREW AND BLACK FINISH.	EVENLITE	PRW LED 1.MV.B SERIES	10 V	1.0 W	LED	WALL, SURFACE AT 8'-0" A.F.G. REFER TO LFS NOTE No. 2.	POWERED VIA TYPE 'E1' LUMINAIRE.
SC	NOMINAL 4'58" x 15" DOWNLIGHT STYLE LED LUMINAIRE WITH IC RATED AIR-TIGHT NEW CONSTRUCTION HOUSING, 90+ CRI MIN., INTEGRAL 0-10v DIMMING DRIVER, WHITE BEVEL, WHITE TRIM, 50deg BEAM PATTERN (FIELD REPLACEABLE), SELF FLANGED DIE CAST TRIM, FROSTED ACRYLIC DIFFUSER AND LISTED FOR WET LOCATIONS UNDER COVERED CEILINGS.	INTEGER LIGHTS	RPA 4.12L 40.10V.UV.50.S.IC.RFD and 4RFO.W-W.WL SERIES	120 V	16.0 W	LED, 4000k, ~1200lms	CANOPY, RECESSED.	
SW	NOMINAL 13" w x 8" h x 5-1/2" h WALL PACK STYLE LED LUMINAIRE WITH DIE-CAST ALUM. HOUSING, 70+ CRI MIN., INTEGRAL DRIVER, ZERO UPLIGHT, 10kv SURGE PROTECTION DEVICE, UNIVERSAL WALL MOUNTING PLATE, IP65 RATED, IK08 RATED. TYPE 3 DISTRIBUTION AND FINISH SHALL BE DETERMINED BY ARCHITECT.	LSI	XWS.LED.2L.SIL.3.UV.DIM.40.70.x(finish)SP1 SERIES	120 V	19.0 W	LED, 4000k, ~2000lms	WALL, SURFACE AT ~9'-0" A.F.G. U.O.N. REFER TO LFS NOTE No. 1.	
V	NOMINAL 9" w x 47" h x 4" OVAL SHAPED VANDAL RESISTANT STYLE LED LUMINAIRE WITH DIE-FORMED HEAVY GAUGE STEEL HOUSING, NEOPRENE GASKETING, VANDAL RESISTANT STAINLESS STEEL HARDWARE, WHITE OPAL POLYCARBONATE DIFFUSER (WITH INTERNAL LINEAR RIBBING), INTEGRAL 0-10v DIMMING DRIVER, 80+ CRI MIN. AND WHITE FINISH.	ORACLE LIGHTING	4.OV2R.LED.4000L.DIM10.MVOLT.40K.85 SERIES	120 V	35.0 W	LED, 4000k, ~4000lms	CEILING, SURFACE.	FACTORY PROGRAMMED/MODIFIED LUMEN OUTPUT REQUIRED.

- GENERAL NOTES:**
- PROVIDE ALL 0-10V DIMMING DRIVERS PREWIRED WITH ISOLATE LEADS. WHEN A DIMMING DRIVER IS PROVIDED BUT ONLY CALLED FOR STATIC OPERATION, CAP 0-10V LEADS AND LEAVE IN PLACE, ENSURE LUMINAIRE STILL OPERATES AT 100% OUTPUT.
 - COORDINATE LIGHTING FIXTURES INDICATED ON DRAWINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS. VERIFY CEILING CONSTRUCTION IN ALL AREAS WITH ARCHITECTURAL DRAWINGS AND PROVIDE ALL MOUNTING FRAMES/HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION SUITABLE FOR THE CEILING TYPE.
 - IN SPRINKLERED AREAS, MAINTAIN ADEQUATE SPACING BETWEEN FIXTURES AND SPRINKLER HEADS PER COUNTY FIRE MARSHAL REQUIREMENTS.
 - ALL LOW VOLTAGE, CLASS 2 WIRING FROM A REMOTE POWER SUPPLY TO LUMINAIRE SHALL BE IN CONDUIT.
 - ALL DIMMING DRIVERS OR DIMMING BALLASTS SHALL BE COORDINATED WITH DIMMER/DIMMING SYSTEM TO ENSURE FLICKER FREE DIMMING DOWN TO 10% UNLESS SPECIFIED TO LOWER PERCENTAGE IN LIGHT FIXTURE SCHEDULE.
 - COORDINATE ALL EXIT SIGN MOUNTING POINTS WITH ARCHITECTURAL DRAWINGS, MILLWORK DRAWINGS AND ALL OTHER TRADES PRIOR TO ROUGH-IN.
 - PROVIDE ALL DRIVERS AS UNIVERSAL VOLTAGE.
 - MODEL NUMBERS ARE FOR REFERENCE ONLY. SUBMIT SHOP DRAWINGS BASED ON ENTIRE SCHEDULE AND DRAWING INFORMATION.
 - THE SUITABILITY OF NAMED ITEM ONLY HAS BEEN VERIFIED. WHERE MORE THAN ONE MANUFACTURER IS NAMED, ONLY THE FIRST NAMED MANUFACTURER HAS BEEN VERIFIED AS SUITABLE. MANUFACTURERS AND TIEMS OTHER THAN FIRST NAMED SHALL BE EQUAL OR BETTER IN QUALITY AND PERFORMANCE TO THAT OF SPECIFIED ITEMS, AND MUST BE SUITABLE FOR AVAILABLE SPACE, REQUIRED ARRANGMENT AND APPLICATION.

LIGHT FIXTURE SCHEDULE NOTES:

- REFER TO ARCHITECTURAL ELEVATIONS FOR ALL EXTERIOR WALL MOUNTED LUMINAIRES LOCATIONS AND ASSOCIATED MOUNTING HEIGHTS.
- ALL LOW VOLTAGE WIRING FROM EMERGENCY BATTERY TO REMOTE HEAD SHALL BE IN CONDUIT.

GENERAL NOTES:

- THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS OF ALL OTHER TRADES ON THE PROJECT. ELECTRICAL OR SYSTEMS CONNECTIONS INDICATED ON ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, KITCHEN AND ALL OTHER DRAWINGS WHICH ARE PART OF THIS PROJECT, SHALL BE CONSIDERED A PART OF THIS CONTRACT AND SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND AS SUCH SHALL NOT BE SCALED. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEVICES AND EQUIPMENT AND DIMENSIONAL INFORMATION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF SERVICE EQUIPMENT AND WIRING.
- COORDINATE MOUNTING HEIGHTS OF ALL DEVICES WITH ARCHITECTURAL PLANS, SECTIONS, ELEVATIONS AND CASEWORK DRAWINGS.
- COORDINATE NEW WALLS WITH ARCHITECTURAL PLANS.
- WIRING AND CONDUIT SIZES INDICATED IN PANEL SCHEDULES ARE MINIMUM ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT WIRING AND CONDUIT SIZES. CONTRACTOR SHALL PROVIDE SPLICE BLOCKS AND REDUCING PINS AS REQUIRED TO TERMINATE WIRING AND MAKE FINAL CONNECTIONS.
- ELECTRICAL BOXES IN FIRE RATED PARTITIONS SHALL NOT EXCEED 16 SQUARE INCHES IN AREA (IF 4"x4"), SHALL BE MADE OF STEEL AND SHALL BE SUCH THAT THE CUMULATIVE AREA OF BOX "CUTOUTS" IN THE FIREWALL DOES NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET OF WALL AREA. ELECTRICAL BOXES ON OPPOSITE SIDES OF THE SAME FIREWALL SHALL BE SEPARATED BY A HORIZONTAL AND VERTICAL DISTANCE OF NOT LESS THAN 24 INCHES. THE ELECTRICAL CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS, AS NECESSARY, TO ELECTRICAL BOX LOCATIONS TO ENSURE COMPLIANCE WITH THIS REQUIREMENT SINCE BOX LOCATIONS ARE TYPICALLY NOT DIMENSIONED ON THE DRAWINGS. CONSULT ARCHITECT IF CLARIFICATION IS REQUIRED.
- ALL CONDUIT SHALL BE CONCEALED IN WALLS, FLOORS, ABOVE CEILING OR THROUGH MILLWORK. AT TIMES CONDUIT ROUTING IS SHOWN FOR CLARITY AND IN NO WAY PROVIDES THE CONTRACTOR ABILITY TO NOT PROVIDE CONCEALED CONDUIT AT ANY POINT OTHER POINT NOT SHOWN IN THE BUILDING. REFER TO SPECIFICATIONS FOR CONDUIT AND WIRING REQUIREMENTS BASED ON APPLICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT ROUTING OF WIRING AND CONDUITS AND SHALL BE RESPONSIBLE FOR SIZING ALL BRANCH CIRCUIT WIRING TO LIMIT VOLTAGE DROP TO 3%. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE WIRING PER NEC.

Branch Panel: CB

LOCATION: MEP C103
SUPPLY FROM: MOUNTING: Surface

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4

A.I.C. RATING: 10K
MAINS RATING: 300 A
MCB RATING: 300 A
NEUTRAL RATING: 100%

Notes:
* PROVIDE PHOTOCELL AND TIME CLOCK CONTROL.
** PROVIDE UNDER ADD ALTERNATE #1, UNDER BASE BID PROVIDE SPARE BREAKER

CKT	CIRCUIT	WIRE SIZE	P	CB	A	B	C	CB	P	WIRE SIZE	CIRCUIT	CKT	
CB-1	* LTG. - EXTERIOR	(2)#12 + #12GW - 3/4" C	1	20 A	0.4 kVA	0.8 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	**REC - TEAM ROOM C107	CB-2	
CB-3	LTG. - TEAM ROOM, MENS	(2)#12 + #12GW - 3/4" C	1	20 A		0.6 kVA	0.8 kVA	20 A	1	(2)#12 + #12GW - 3/4" C	REC - C106, C104, C103, C105	CB-4	
CB-5	LTG. - CONCESSIONS, WOMENS	(2)#12 + #12GW - 3/4" C	1	20 A			0.7 kVA	0.8 kVA	20 A	1	(2)#12 + #12GW - 3/4" C	REC - ROOM C102, C100	CB-6
CB-7	FREEZER - STORAGE C102	(2)#12 + #12GW - 3/4" C	1	20 A	1.3 kVA	0.9 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	FRIDGE - STORAGE C102	CB-8	
CB-9	FRIDGE - CONCESSIONS C100	(2)#12 + #12GW - 3/4" C	1	20 A		1.8 kVA	1.0 kVA	20 A	1	(2)#12 + #12GW - 3/4" C	FRIDGE - CONCESSIONS C100	CB-10	
CB-11	MICROWAVE - CONCESSIONS C100	(2)#12 + #12GW - 3/4" C	1	20 A			1.9 kVA	1.8 kVA	20 A	1	(2)#12 + #12GW - 3/4" C	MICROWAVE - CONCESSIONS C100	CB-12
CB-13	REC - CONCESSIONS C100	(2)#12 + #12GW - 3/4" C	1	20 A	0.8 kVA	0.8 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	REC - CONCESSIONS C100	CB-14	
CB-15	REC - CONCESSIONS C100	(2)#12 + #12GW - 3/4" C	1	20 A		0.8 kVA	0.8 kVA	20 A	1	(2)#12 + #12GW - 3/4" C	REC - EXTERIOR	CB-16	
CB-17							5.0 kVA	4.3 kVA				CB-18	
CB-19	HWG-1	(3)#6 + #10GW - 3/4" C	3	55 A	5.0 kVA	4.3 kVA		45 A	3	(3)#6 + #10GW - 3/4" C	**FCU-1	CB-20	
CB-21						5.0 kVA	4.3 kVA					CB-22	
CB-23							4.0 kVA	1.3 kVA				CB-24	
CB-25	FCU-2	(3)#8 + #10GW - 3/4" C	3	40 A	4.0 kVA	1.3 kVA		15 A	3	(3)#12 + #12GW - 3/4" C	ERU-1	CB-26	
CB-27						4.0 kVA	1.3 kVA					CB-28	
CB-29							1.4 kVA	2.5 kVA				CB-30	
CB-31	GRINDER PUMP	(2)#10 + #10GW - 3/4" C	2	25 A	1.4 kVA	2.5 kVA		30 A	3	(3)#10 + #10GW - 3/4" C	EHC-1	CB-32	
CB-33	GREASE INTERCEPTOR	(2)#12 + #12GW - 3/4" C	1	20 A		1.1 kVA	2.5 kVA					CB-34	
CB-35	EWC	(2)#12 + #12GW - 3/4" C	1	20 A			6.0 kVA	0.8 kVA	20 A	1	(2)#12 + #12GW - 3/4" C	CORD REEL	CB-36
CB-37	CORD REEL	(2)#12 + #12GW - 3/4" C	1	20 A	0.8 kVA	0.4 kVA		20 A	1	(2)#12 + #12GW - 3/4" C	F-1, F-2, RP-1	CB-38	
CB-39	ERC-P-1	(2)#12 + #12GW - 3/4" C	1	20 A		0.3 kVA	1.8 kVA					CB-40	
CB-41							1.8 kVA		30 A	3	(3)#10 + #10GW - 3/4" C	**ACCU-1	CB-42
CB-43						1.8 kVA						CB-44	
CB-45												CB-46	
CB-47												CB-48	
CB-49												CB-50	
CB-51												CB-52	
CB-53												CB-54	
				Total Connected Load:		84.7...	26.4 kVA	26.0 kVA	32.2 kVA				

Legend:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANELBOARD TOTALS
MOTOR -	0.0 kVA	0.00%	0.0 kVA	Total Conn. Load: 84.7 kVA
REC -	21.4 kVA	73.36%	15.7 kVA	Total Est. Demand: 79.0 kVA
MECHANICAL -	60.1 kVA	100.00%	60.1 kVA	Total Conn.: 235 A
LTG. -	1.4 kVA	100.00%	1.4 kVA	Total Est. Demand: 219 A

ARCHITECT

SEI SMOLEN+EMR
ILKOVITCH
ARCHITECTS

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ROCKVILLE, MD 20860
301-770-6177(P) 301-330-3224(F)

CIVIL

COA BARRETT, LLC

100 JIBSAL DRIVE SUITE 103
PRINCE FREDERICK, MD 20678

STRUCTURAL

COMPREHENSIVE STRUCTURAL SOLUTIONS, LLC

9220 WRIGHTMAR RD, SUITE 120
MONTGOMERY VILLAGE, MD 20886

MECHANICAL/ELECTRICAL/PLUMBING

ALBAN ENGINEERING

303 INTERNATIONAL CIRCLE, SUITE 450
HUNT VALLEY, MD 21030

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland. License No.: 45531, Expiration Date: 6/3/2024.

PROFESSIONAL SEAL:

PRINTS ISSUED

NO.	DESCRIPTION	DATE:
CD	COORDINATION SET	12/06/2023
CD	90% SET	12/19/2023
BID	DOCUMENTS	04/08/2024

LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING

ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:
ELECTRICAL LEGEND, DETAILS, & SCHEDULES

PROJECT NO:	23010	
DATE:	04/08/2024	
SCALE:		
DRAWN BY:	Alban	
CHECKED BY:	Alban	
SHEET NO:		

E-1

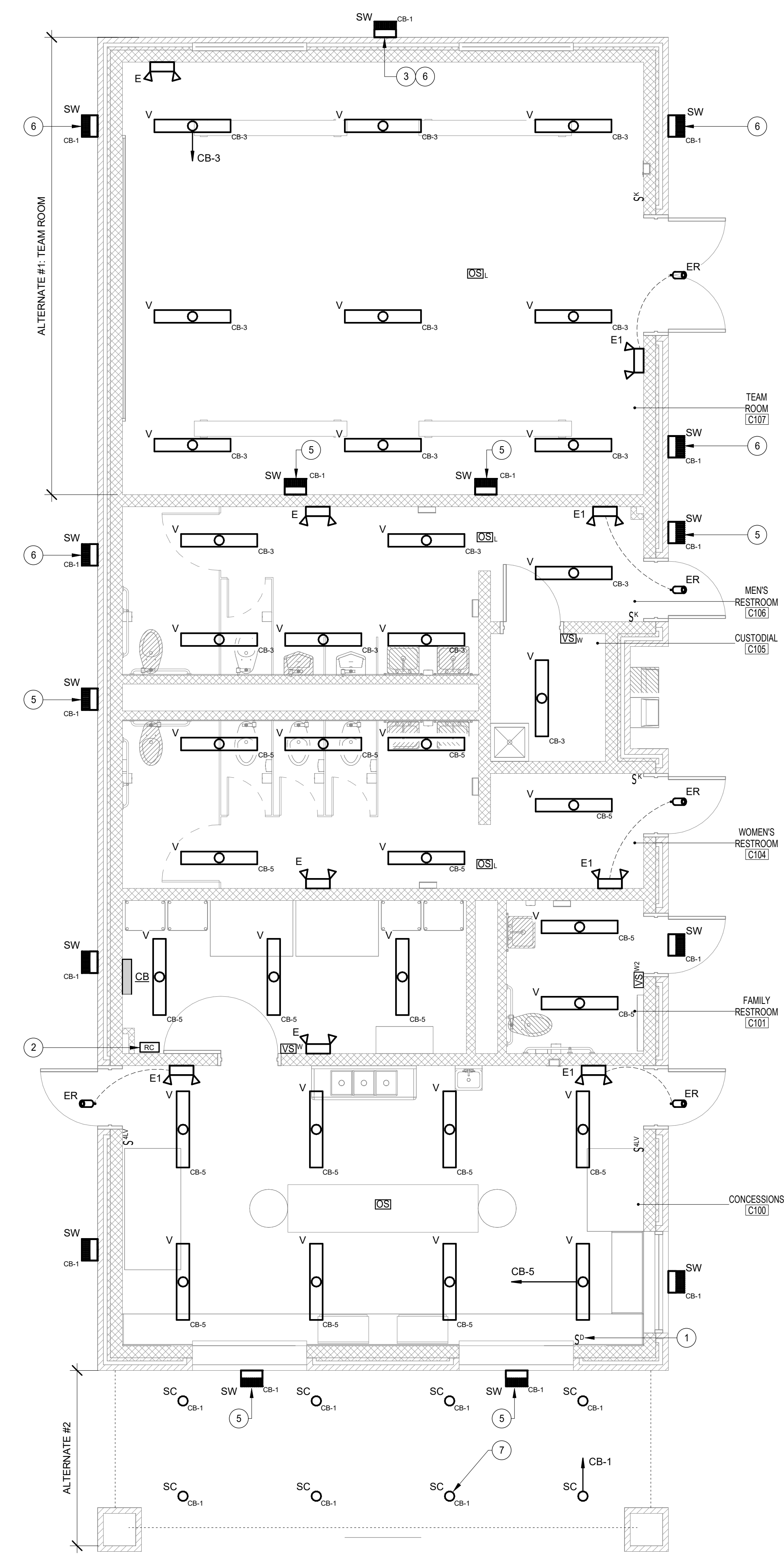
- DRAWING NOTES:**
- FOR LOCALIZED CONTROL OF ALL TYPE 'SC' LIGHT FIXTURES, WIRE DOWNSTREAM OF TIMECLOCK/PHOTOCELL CONTROLS.
 - PROPOSED LOCATION OF WALL MOUNTED ROOM CONTROLLER SERVING CONCESSIONS C100. FIELD VERIFY LOCATION WITH OWNERSHIP PRIOR TO ROUGH-IN.
 - AT APPROX. 10'-0" A.F.G. REFER TO LFS NOTE No. 1.
 - PROVIDE 3P-300A BREAKER IN DISTRIBUTION PANEL DELC (SQUARE D) LOCATED IN EXISTING HIGH SCHOOL ELECTRIC ROOM #44 APPROXIMATELY 375' AWAY AND FEED VIA (4)350KCMIL + #4GW - 2-1/2" C.
 - BASE BID ONLY.
 - ALTERNATE No. 1 ONLY.
 - ALL TYPE 'SC' LIGHT FIXTURES, ALTERNATE No. 2 ONLY.
 - UNDER BASE BID, INSTALL DEVICE ON NORTH WALL OF BASE BID BUILDING, UNDER ALTERNATE #1, INSTALL DEVICE AS SHOWN.
 - COORDINATE LOCATION WITH CIVIL DRAWINGS. MAKE ALL CONNECTIONS AS REQUIRED.

ARCHITECT
SEI SMOLEN + EMR
 + ILKOVITCH
 ARCHITECTS
 9211 CORPORATE BLVD, SUITE 340
 ROCKVILLE, MD 20850
 301-770-0177(P) 301-330-3224(F)

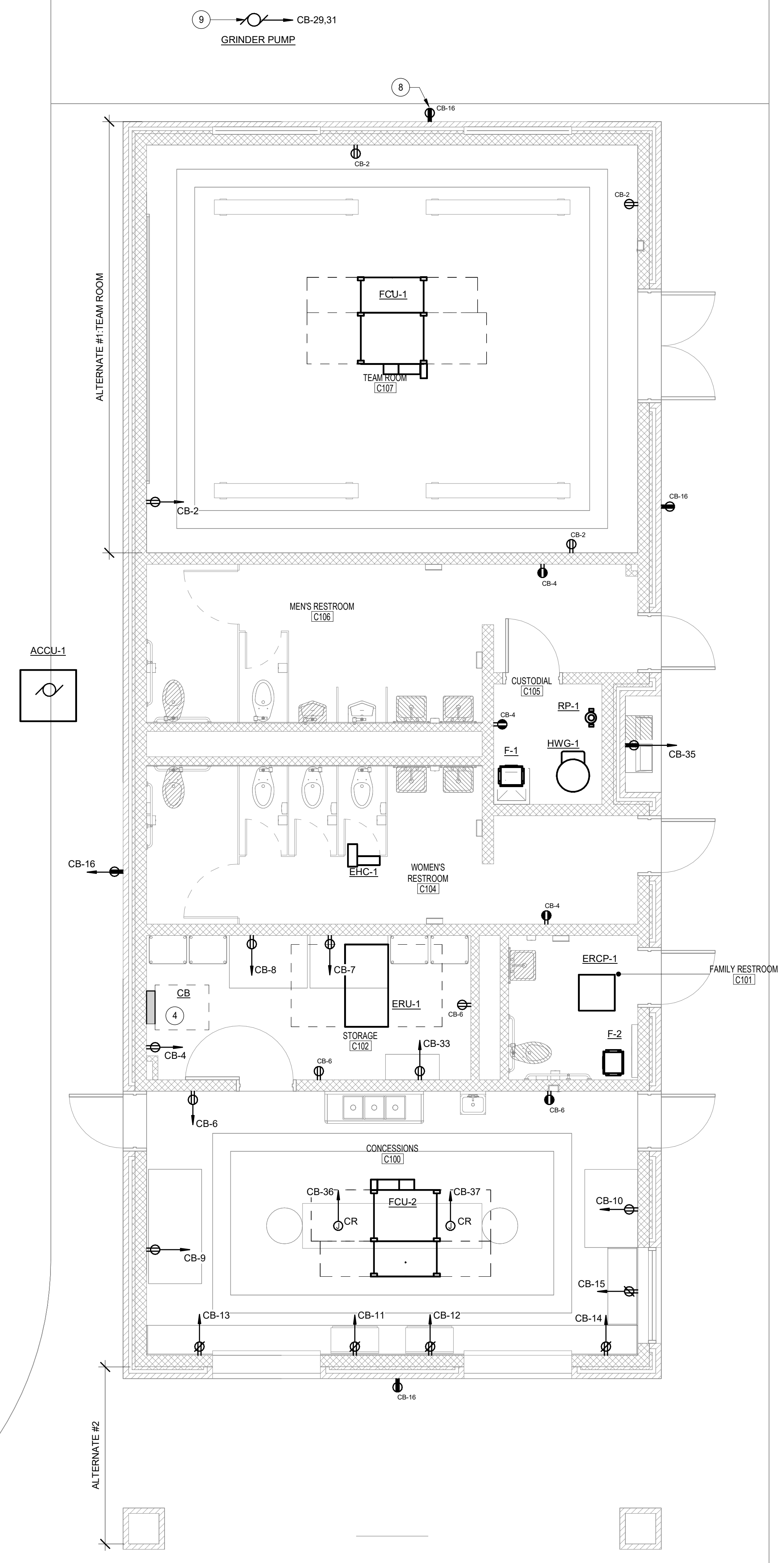
CIVIL
COA BARRETT, LLC
 100 JIBSAIL DRIVE SUITE 103
 PRINCE FREDERICK, MD 20678

STRUCTURAL
COMPREHENSIVE STRUCTURAL SOLUTIONS, LLC
 9220 WRIGHTMAN RD, SUITE 120
 MONTGOMERY VILLAGE, MD 20886

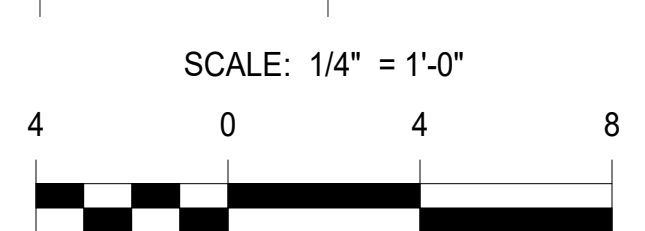
MECHANICAL/ELECTRICAL/PLUMBING
ALBAN ENGINEERING
 303 INTERNATIONAL CIRCLE, SUITE 450
 HUNT VALLEY, MD 21030



FIRST FLOOR PLAN - LIGHTING
 1/4" = 1'-0"



FIRST FLOOR PLAN - POWER
 1/4" = 1'-0"



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PRINTS ISSUED		
NO.	DESCRIPTION:	DATE:
CD	COORDINATION SET	12/06/2023
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BID	DOCUMENTS	04/08/2024

LEONARDTOWN HIGH SCHOOL CONCESSIONS BUILDING
ST. MARY'S COUNTY PUBLIC SCHOOLS

SHEET TITLE:
FLOOR PLANS - ELECTRICAL

PROJECT NO:	23010
DATE:	04/08/2024
SCALE:	1/4" = 1'-0"
DRAWN BY:	Alban
CHECKED BY:	Alban
SHEET NO:	E-2