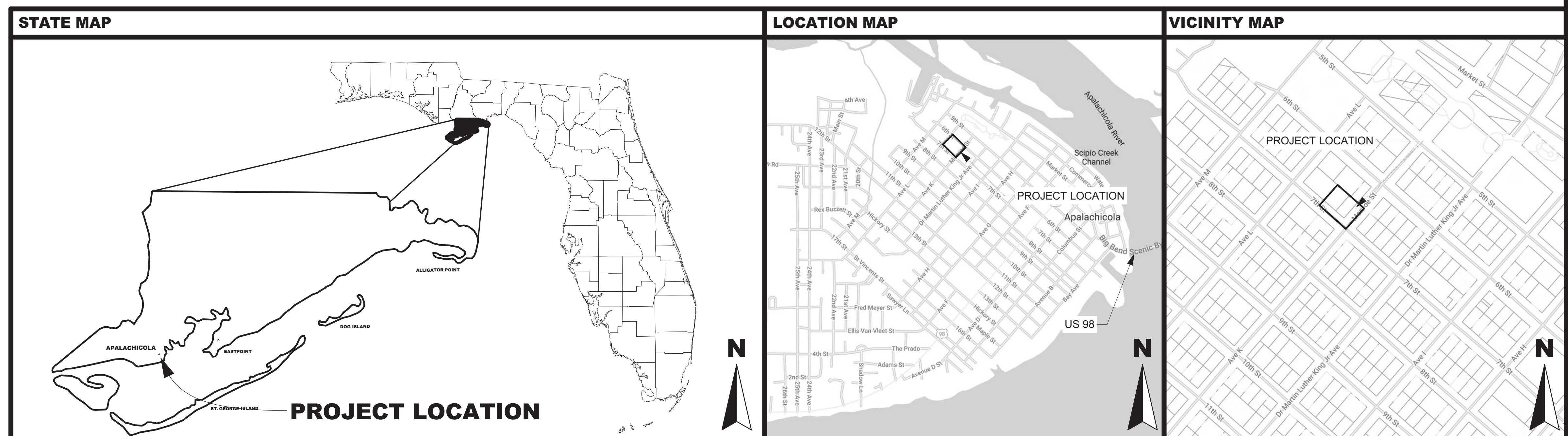




# CITY OF APALACHICOLA

## AFRICAN-AMERICAN CULTURAL HISTORY MUSEUM

**203 7TH ST APALACHICOLA FLORIDA 32320**  
**100% CONSTRUCTION DOCUMENTS 01/29/2025**  
**REBID DOCUMENTS MAY 2025**



**HAMMOND**  
*Design*  
**GROUP, LLC**  
**ARCHITECTS**

ARCHITECTURE	AR 16903
LANDSCAPE ARCHITECTURE	LA 0001313

**2627 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32301 - 5905  
850-222-2092 PHONE  
www.hdg-architects.com**



ARCHITECTURE AR 14284

**RHODES + BRITO ARCHITECTS**  
**THE DAY BUILDING**  
**605 E. ROBINSON ST. SUITE 750**  
**ORLANDO, FLORIDA 32801**  
**407-648-7288 PHONE**  
**[www.rbarchitects.com](http://www.rbarchitects.com)**

<b>CITY OF APALACHICOLA</b>
<b>AFRICAN-AMERICAN CULTURAL HISTORY MUSEUM</b>
<b>100% CONSTRUCTION DOCUMENTS</b>
<b>COVER</b>

[illegible]

ID	DATE	DESCRIPTION
1	05/30/2025	REBID DOUCMENTS

<b>DATE</b>	01/29/2025
<b>DRAWN</b>	IWP
<b>CHECKED</b>	BDH
<b>JOB NO.</b>	HDGA 2314

**SIGNATURE & SEAL**



## DRAWING

COVER



ABBREVIATIONS									
AC	AIR CONDITIONED	GA.	GAUGE	R	RADIUS				
ACP	ACOUSTICAL PANEL	GAL.	GALLON	R.A.	RETURN AIR				
A.C.T.	ACOUSTICAL TIE	GALV.	GALVANIZED	RAD.	RADIUS				
A.F.F.	ABOVE FINISH FLOOR	G.F.E.	GOVERNMENT FURNISHED EQUIPMENT	R.A.G.	RETURN AIR GRILLE				
A.H.U.	AIR HANDLING UNIT	GL.	GLASS	R.A.R.	RETURN AIR REGISTER				
AJ	ACOUSTICAL JOINT	GND.	GROUND	RD.	ROUND				
ALT.	ALTERNATE	G.P.M.	GALLONS PER MINUTE	R.D.	ROOF DRAIN				
ALUM.	ALUMINUM	GR.	GRILLE	RDY	READY				
AMP.A	AMPERES	GWB	GYPSUM WALLBOARD	RECIRC.	RECIRCULATING				
AN	ANODIZED	GYP.BD.	GYPSUM BOARD	RECP.	RECEPTACLE				
APPROX.	APPROXIMATELY	H.B.	HOSE BIBB	REG.	REGISTER				
ARCH.	ARCHITECTURAL	H.C.	HOLLOW CORE	REINF.	REINFORCING				
		H.T.	HOLLOW METAL	REQ.	REQUIRED				
B	BOTTOM	H.M.	HIGH POINT	RET.	RETURN				
BD.	BOARD	H.P.	HOUR	R.G.	RETURN GRILLE				
BLK.	BLOCK	HR.	HEATING	RM.	ROOM				
BM.	BEAM	HTG.	HEATING & VENTILATION	R.O.	ROUGH OPENING				
BAL.	BALANCE	H&V.	HARDWARE	R.P.M.	REVOLUTION/MINUTE				
BRG.	BEARING	HYD.	HYDRANT	RWL.	RAIN WATER LEADER				
B.T.U.M.	BRITISH THERMAL UNIT/HOUR	I.D.	INSIDE DIAMETER	S.A.	SUPPLY AIR				
C	CONDUIT	INV. EL.	INVERT ELEVATION	S.A.T.	SUSPENDED ACOUSTICAL TILE				
CAB.	CABINET	IN.	INCHES	SCH.	SCHEDULE				
CAP.	CAPACITY	IN.CAND.	INCANDESCENT	SECT.	SECTION				
C/B	CIRCUIT BREAKER	INSUL.	INSULATION	SERV.	SERVICE				
C.D.	CEILING DIFFUSER	INT.	INTERIOR	S.G.	SUPPLY GRILLE				
C.L.	CENTER LINE	J.B.	JUNCTION BOX	SHT.	SHEET				
CER.	CERAMIC	JCT.	JUNCTION JOINT	SP	STAND PIPE				
C.F.M.	CUBIC FEET/MINUTE	JT.	JOINT	SPEC.	SPEC.				
CIRC.	CIRCULATING	KVA	KILOVOLT	SQ. FT.	SQ. FT.				
C.I.	CAST IRON	LAV.	LAVATORY	SRB	STRAIGHT RESILIENT BASE				
CKT	CIRCUIT	LB (#)	POUND	SS	STAINLESS STEEL				
CLR	CLEAR	L.P.	LOW POINT	STL	STEEL				
CLG.	CEILING	LTG.	LIGHTING	STOR.	STORAGE				
C.M.U.	CONCRETE MASONRY UNIT	M.	MOTOR	STRUC.	STRUCTURAL				
C.O.	CARRIET	MAINT.	MAINTENANCE	SUSP.	SUSPENDED				
COL.	COLUMN	MAX.	MAXIMUM	SW.	SWITCH				
COMP.	COMPRESSOR	M.D.P.	MAIN DISTRIBUTION PANEL	T	TOP				
CONC.	CONCRETE	MECH.	MECHANICAL	TEL.	TELEPHONE				
COND.	CONDENSATE	MTL.	METAL	THK.	THICK				
CONN.	CONNECTION	MIN.	MINIMUM	THD.	THRESHOLD (THRESH)				
CONT.	CONTINUOUS	MISC.	MISCELLANEOUS	T.O.W.(B)	TOP OF WALL (BEAM)				
CONT.	CONTROL JOINT	MO	MASONRY OPENING	TOIL	TOILET				
CT	CERAMIC TILE	MOD.BIT.	MODIFIED BITUMEN	TYP.	TYPICAL				
C.T.B.	CERAMIC TILE BASE	MR	METAL THRESHOLD	UNO	UNLESS NOTED OTHERWISE				
C.U.	CONDENSING UNIT	MTG.	MOUNTING	UR.	URINAL				
		N	NORTH	V.	VOLT				
DET	DETAIL	N.A.	NOT APPLICABLE	VT	VINYL COMPOSITE TILE				
DIA.D.	DIAMETER	N.I.C.	NOT IN CONTRACT	V.C.	VITROUS CLAY				
DIFF.	DIFFUSER	NO.	NUMBER	V.E.J.	VERTICAL EXPANSION JOINT				
DIM.	DIMENSION	NTS	NOT TO SCALE	VERT.	VERTICAL				
DISC.	DISCONNECT	O.C.	ON CENTER	V.I.F.	VERIFY IN FIELD				
DIST.	DISTRIBUTION	O.D.	OUTSIDE DIAMETER	V.I.F.	VENT THRU ROOF				
D.J.	DUMMY JOINT	O.H.	OVERHEAD	W.	WATT				
DN.	DOWN	OPG.	OPENING	W.	WITH				
DR.	DRAIN	OPP.	OPPOSITE	W.C.	WATER CLOSET				
D.S.	DOWNSPOUT	P.LAM	PLASTIC LAMINATE	W.C.O.	WASTE CLEAN OUT				
DWG.(S)	DRAWING(S)	PAR.	PARTITION	WD.	WOOD				
		PC	PRECAST CONCRETE	WD.	WINDOW DIMENSION				
E	EAST	PER	PERIMETER	WF	WIDE FLANGE				
EA.	EACH	PL.	PLATE	WG.	WATER GAGE				
E.C.	EMPTY CONDUIT	PLBG.	PLUMBING	WP	WEATHERPROOF				
E.F.	EXHAUST FAN	PLYWD	PLYWOOD	WTR.	WATER				
EL	FLOOR ELEVATION	PNL.	PANEL	W.W.F.	WELDED WIRE FABRIC				
ELEV	ELEVATION	PRESS.	PRESSURE	W.W.M.	WELDED WIRE MESH				
EQ.	EQUAL	PSF	POUNDS/SQUARE FOOT						
EQUIP.	EQUIPMENT	PSI	POUNDS/SQUARE INCH						
E.W.C.	ELECTRIC WATER COOLER	PSTG.	POUNDS/SQUARE INCH GAGE						
EXH.	EXHAUST	PT.	PRESSURE TREATED						
EXP.	EXPANSION	PTD.	PAINTED						
E.J.	EXPANSION JOINT(EJ)	QT	QUARRY TILE						
EXT.	EXTERIOR	QTR.	QUARTER						
EXIST.	EXISTING	QUAN.	QUANTITY						
F.A.	FIRE ALARM								
F.C.	FLEXIBLE CONNECTION								
F.D.	FLOOR DRAIN								
F.E.	FIRE EXTINGUISHER & BRACKET								
F.E.C.	FIRE EXTINGUISHER & CABINET								
F.H.C.	FIRE HOSE CABINET W/ EXTINGUISHER								
FIN.	FINISH								
FL.	FLOOR								
FP	FIRE PROOFING								
FT.	FOOT-FEET								
FTG.	FOOTING								
FVC	FIRE VALVE CABINET								

- GENERAL ARCHITECTURAL NOTES
1.

THESE DRAWINGS AND RENDERINGS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS AND COPIES THEREOF, INCLUDING ELECTRONIC MEDIA AND CAD FILES, ARE THE PROPERTY OF HAMMOND DESIGN GROUP, LLC. THEIR USE, REPRESENTATION OR REPRODUCTION IN ACTUAL FORM OR CONTENT BY ANY ENTITY THAT POSSESSES THEM FOR ANY PURPOSE EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT IS PROHIBITED. THIS COPYRIGHT NOTIFICATION SHALL BE TRUE AS IF DIRECTLY PLACED ON EACH DRAWING, DETAIL, EXHIBIT OR RENDERING ON THIS DOCUMENT AND SHALL NOT BE REMOVED FROM THESE DOCUMENTS. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE MISUSE OF THESE DRAWINGS.
2.

ALL DIMENSIONS ARE TO THE FACE OF GYPSUM BOARD, FACE OF MASONRY, AND TO THE CENTER LINE OF STRUCTURAL STEEL COLUMNS AND BEAMS, UNLESS OTHERWISE NOTED.
3.

WHERE CLEAR DIMENSIONS ARE INDICATED, THIS SHALL MEAN CLEAR WIDTH FROM FINISHED WALL TO FINISHED WALL OR CLEAR FLOOR AREA BETWEEN BUILDING COMPONENTS.
4.

DIMENSIONS FOR PATHS OF EGRESS INCLUDING CORRIDORS AND STAIRS SHALL MEAN CLEAR WIDTH BETWEEN CORRIDOR WALLS, AND AT STAIRS CLEAR WIDTH BETWEEN WALLS OR CURBS.
5.

REFER TO LIFE SAFETY PLANS FOR BUILDING OCCUPANCY, BUILDING CONSTRUCTION TYPE, EGRESS, OCCUPANT COUNT, AND LIFE SAFETY FEATURES.
6.

DO NOT SCALE DRAWINGS. IF THERE IS A CONFLICT IN DIMENSIONS OR IF THERE IS INSUFFICIENT DIMENSIONING, CONTACT THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING.
7.

IF AN ORDER OF PRECEDENT FOR THE INTERPRETATION OF DOCUMENTS IS NOT PROVIDED IN THE PROJECT MANUAL, AND A CONFLICT OCCURS IN THE SPECIFICATIONS, ON THE DRAWINGS, OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, CONTACT THE ARCHITECT. ALL REQUESTS FOR CLARIFICATION TO THE ARCHITECT SHALL BE MADE IN WRITING. THE ARCHITECT'S RESPONSE SHALL BE MADE IN WRITING.
8.

ALL FIRE RATED PARTITION OR WALL ASSEMBLIES SHALL EXTEND FROM THE FLOOR SLAB TO THE UNDERSIDE OF THE BUILDING STRUCTURE AND/OR DECK ABOVE UNLESS OTHERWISE DETAILED. ALL PENETRATIONS IN RATED CONSTRUCTION SHALL BE PROPERLY SEALED TO INSURE THE RATING IS MAINTAINED.
9.

ALL FIRE RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLIES SHALL BE CONTINUOUS BETWEEN PARTITIONS AND/OR WALLS FOR THE SPACE OR HORIZONTAL AREA INDICATED. ALL PENETRATIONS IN RATED CONSTRUCTION SHALL BE PROPERLY SEALED TO INSURE THE RATING IS MAINTAINED.
10.

TYPICAL AND STANDARD DETAILS MAY BE PROVIDED IN THE DRAWINGS. IF A SPECIFIC DETAIL IS NOT PROVIDED FOR CONDITION OF FABRICATION AND/OR INSTALLATION, CONTACT THE ARCHITECT PRIOR TO PROCEEDING.
11.

ALL COLORS AND FINISHES SHALL BE SELECTED BY THE ARCHITECT. THE ARCHITECT SHALL ISSUE SUPPLEMENTAL INSTRUCTIONS FOR COLORS AND FINISHES AS REQUIRED. VENDOR OR CONTRACTOR NOTES ON SHOP DRAWINGS OR PRODUCT SUBMITTALS REQUESTING A COLOR SELECTION SHALL BE CONFIRMED BY THE ARCHITECT.
12.

SPECIFIED TRANSITION STRIPS INCLUDING ALUMINUM THRESHOLDS, ALUMINUM SADDLES, RUBBER REDEUCER STRIPS, MARBLE THRESHOLDS, ETC. ARE REQUIRED BETWEEN FLOOR FINISHES WITH VARYING HEIGHTS.
13.

THE INSTALLATION OF MECHANICAL, PLUMBING AND ELECTRICAL ITEMS (INCLUDING UTILITIES, ROUGH-INS, SYSTEM COMPONENTS AND FINISHED FIXTURES) IN EXPOSED TO VIEW AREAS OR SPACES SHALL BE UNDERTAKEN WITH SKILL AND CRAFTSMANSHIP TO PROVIDE A FINISHED CONDITION ACCEPTABLE TO THE ARCHITECT. ALL EXPOSED TO VIEW ITEMS SHALL BE FINISHED WITH PAINT UNLESS OTHERWISE SPECIFIED TO BE PREFINISHED OR NOT TO BE PAINTED.
14.

THESE GENERAL NOTES HAVE THE SAME AUTHORITY AS OTHER NOTES AND REFERENCES IN THE DRAWINGS OR SPECIFICATIONS AND SHALL NOT BE EXCLUDED IN THE EXECUTION OF THE WORK. THEY MAY REQUIRE COORDINATION BETWEEN VARIOUS TRADE CONTRACTORS. IN ADDITION TO THESE GENERAL NOTES, REFER TO DEMOLITION AND CONSTRUCTION NOTES SPECIFIC TO EACH DRAWING.

GENERAL LEGEND

1

A4.01

1

A4.01

1

A4.01

1

A3.01

1

A5.01

1

D01

W01

3050

P-1

100

EL. 0.00'

0"

N

NEW STEEL/

MISC. METAL

EXIST. STEEL/

MISC. METAL

BUILDING SECTION

SECTION NUMBER

SHEET NUMBER

WALL OR SECTION

NUMBER

SHEET NUMBER

ELEVATION

NUMBER

SHEET NUMBER

DETAIL MARKER

DRAWING NUMBER

SHEET NUMBER

PLAN/SECTION/

DETAIL NUMBER

DOOR MARK

REFER TO ROOM

NUMBER

WINDOW TYPE

REFER TO SHEET

PARTITION TYPE

REFER TO SHEET

ROOM NAME

AND NUMBER

ELEVATION HEIGHT

SPOT ELEVATION

NORTH ARROW

NEW STEEL/

MISC. METAL

EXIST. STEEL/

MISC. METAL

STRUCTURAL GRID LINE

COLUMN LETTER

OR NUMBER

PROPERTY LINE

HIDDEN LINE

(BEYOND)

OVERHANG OR

SOFFIT LINE (ABOVE)

BREAK LINE

WOOD-CONTINUOUS

NON-CONTINUOUS

EARTH/COMPACTED

FILL

EXISTING CONSTRUCTION

TO REMAIN

EXISTING CONSTRUCTION

TO BE DEMOLISHED

GRAVEL

P.I.P. CONC.

FINISH WOOD

BATT INSULATION

RIGID INSULATION

SPRAY FOAM INSULATION

BLOCK

BRICK

SAND

CONCRETE

MORTAR/PLASTER

STUCCO

APPLICABLE CODES

FLORIDA BUILDING CODE, BUILDING (FBC-B)

2023, 8TH EDITION

FLORIDA BUILDING CODE, ACCESSIBILITY (FBC-A)

2023, 8TH EDITION

FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB)

2023, 8TH EDITION

FLORIDA BUILDING CODE, MECHANICAL (FBC-M)

2023, 8TH EDITION

FLORIDA BUILDING CODE, FUEL GAS (FBC-FG)

2023, 8TH EDITION

FLORIDA BUILDING CODE, PLUMBING (FBC-P)

2023, 8TH EDITION

FLORIDA FIRE PREVENTION CODE (FFPC)

2023, 8TH EDITION

Based on Florida Amended 2012 Editions of NFPA 1 & 101

NATIONAL ELECTRICAL CODE, (NEC)

2020 EDITION

W/ One Local Utility Related Amendment

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BUILDING/PROJECT INFO		GROSS CONDITIONED SQUARE FOOTAGE: ~2106 S.F.		GROSS UNCONDITIONED SQUARE FOOTAGE: ~1000 S.F.		OCCUPANCY: ASSEMBLY A-3 [70] PERSONS		CONSTRUCTION TYPE: TYPE iiB									
BASIS OF DESIGN																	
PRODUCTS SPECIFIED IN THE DRAWINGS & SPECIFICATIONS ARE NOT INTENDED TO BE A PRESCRIPTIVE LIST BUT, TO CONVEY THE INTENT OF THE ARCHITECTURAL DESIGN.																	
REFER TO RESPECTIVE SPECIALTY'S DRAWINGS FOR PLUMBING EQUIPMENT & FIXTURES, ELECTRICAL EQUIPMENT & FIXTURES, AND MECHANICAL EQUIPMENT & FIXTURES.																	
ROOF	SIPLAST PARADIENE 20/30 SELF-ADHESIVE SBS-MODIFIED BITUMEN MEMBRANE ROOF SYSTEM			ACOUSTICAL PANELS	ZINTRA ACOUSTIC WALL PANEL; 12MM PANEL [QUANTITY: 18] COLORS TO BE SELECTED  SUSPENDED IN EXHIBITION SPACE; BAFFLES - BEAMS SQUARE 12MM [QUANTITY: 12] COLORS & LOCATIONS TO BE SELECTED.												
EXTERIOR CLADDING	STUCCO WITH INTEGRAL COLOR - (WHITE) HEAVY DASH TEXTURE STUC-O-FLEX BREATHEABLE ELASTOMERIC ACRYLIC FINISH OR DRYVIT STUCCOAT PROVIDE FULL RANGE OF MANUF. COLOR SAMPLES FOR SELECTION DRAINAGE MAT - WATERWAY 7MM 5/16" DRAINAGE MAT  CLADDING FASTENERS BASIS OF DESIGN 5" BLUE CLIMASEAL TAPCON 3" BLUE CLIMASEAL TAPCON SURE TIE WS WITH GALV. HOOK 2" PLASTIC INSULATION RENTENTION WASHERS SPAX THERMAL-GRIP BRICK MASONRY VENEER: FIELD BRICK: ENDICOTT - GRAY BLEND VELOUR MODULAR ACCENT BRICK: GLEN GERY - IRONSPOT OYSTER GRAY PROVIDE FULL RANGE OF COLOR SAMPLES FOR MORTAR SELECTION ACME BRICK - MILTON JOHNSON 850 575 0106 msjohnson@brick.com			CASEWORK LAMINATES	WILSONART LAMINATES [L1] - DESIGNER WHITE [L2] - BLACK [L3] - COLUMBIAN WALNUT												
EXTERIOR SOFFITS	RULON INTERNATIONAL - ENDURE #900 - 408 KNOTTY OAK			WALL BASE	FLEXCO - BASE SCULPTURES - BLISS PROFILE - DAHLIA BLACK COLOR												
DOORS	KAWNEER - AA250/425 THERMAL ENTRANCE - MEDIUM STILE - #29 BLACK			CEILINGS	USG - ACOUSTICAL TILES - FINELINE GRID - SANDRIFT TILES												
WINDOWS	KAWNEER - 8400TL THERMAL WINDOWS - FIXED - #29 BLACK			RECEPTION DESK WOOD PANELS	OCTOPUS PRODUCTS LTD. - OCTOTERRA LINEA OTP45 PANELS TO BE STAINED & HAVE A CLEAR WOOD SEALER PROVIDE FULL COLOR RANGE FOR SELECTION												
INTR. STOREFRONT	KAWNEER - INFRAME INTR. FRAMING SYSTEM 6"(1/4" INFILL) - #29 BLACK			COUNTERTOPS	VETROSTONEUSA - OYSTER BAY - BRUSHED FINISH												
TOILET ROOM ACC.	BOBRICK WASHROOM EQUIPMENT - BLACK MATTE COLLECTION			LAVATORY SINK	SOLID SURFACE - WILSONART RECT. ADA RAMP BOWL AV1513 - BRIGHT WHITE												
INTERIOR PAINT	SHERWIN WILLIAMS - OYSTER WHITE(WALL PAINT) TRICORN BLACK(ACCENT-TRIM, DOOR FRAMES, ETC.)																
FLOORING	HOMOGENOUS SHEET FLOORING - ARMSTRONG FLOORING MEDINTONE - QUIET NIGHT H2019 MEDINTONE - RAVEN H2022 USE "RAVEN" WELD RODS AT INTERSECTION OF COLORS.																

HAMMOND

Design

GROUP, LLC

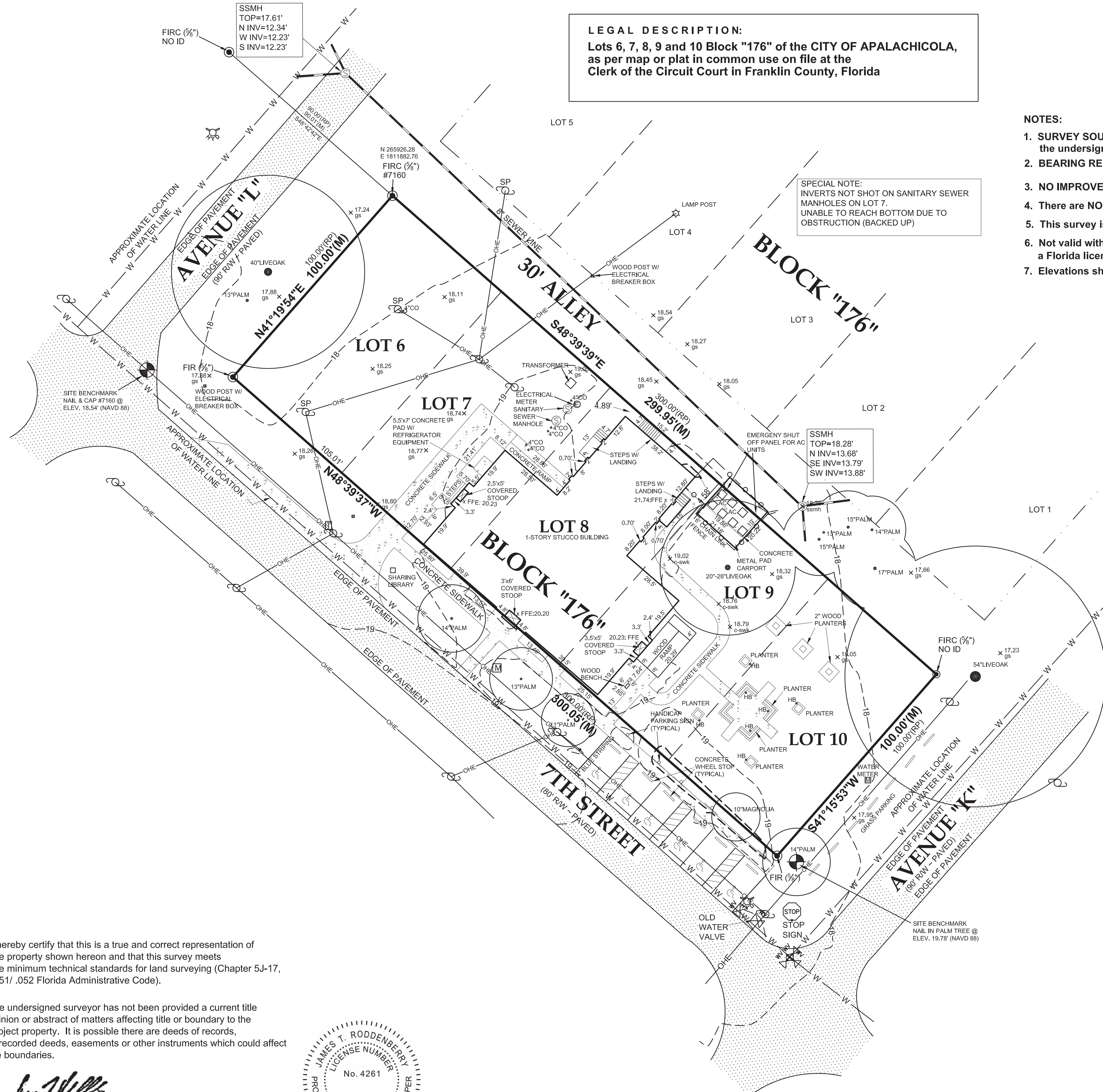
ARCHITECTS

ARCHITECTURE

LANDSCAPE



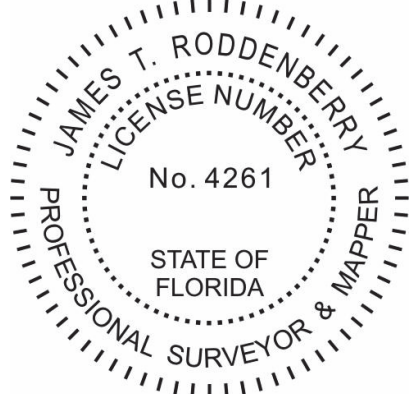
PLAT OF BOUNDARY AND TOPOGRAPHICAL SURVEY CERTIFIED TO:  
HAMMOND DESIGN GROUP



I hereby certify that this is a true and correct representation of the property shown hereon and that this survey meets the minimum technical standards for land surveying (Chapter 5J-17, .051/.052 Florida Administrative Code).

The undersigned surveyor has not been provided a current title opinion or abstract of matters affecting title or boundary to the subject property. It is possible there are deeds of records, unrecorded deeds, easements or other instruments which could affect the boundaries.

*James T. Roddenberry*  
JAMES T. RODDENBERRY  
Surveyor and Mapper  
Florida Certificate No: 4261



**HAMMOND**  
*Design*  
**GROUP, LLC**  
**ARCHITECTS**

ARCHITECTURE AR 16903  
LANDSCAPE ARCHITECTURE LA 0001313

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ARCHITECTURE AR 14284

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SURVEY

REVISIONS		
ID	DATE	DESCRIPTION

DATE 01/29/2025  
DRAWN IWP  
CHECKED BDH  
JOB NO. HDGA 2314

**SIGNATURE & SEAL**  
Digitally signed by Bret D Hammond  
Date: 2025.05.30 13:41:49 -04'00'

**DRAWING**

**AS1.01**

TR & A

THURMAN RODDENBERRY & ASSOCIATES, INC

PROFESSIONAL SURVEYORS AND MAPPERS

P.O. BOX 100 • 125 SHELDON STREET • SOPCHOPPY, FLORIDA 32358

PHONE NUMBER: 850-962-2538 FAX NUMBER: 850-962-1103

LB # 7160

DATE: 09/14/23

DRAWN BY: MMD

COUNTY: FRANKLIN

FILE: 10110.DWG

DATE OF LAST FIELD WORK: 09/13/23

JOB NUMBER: 10-110





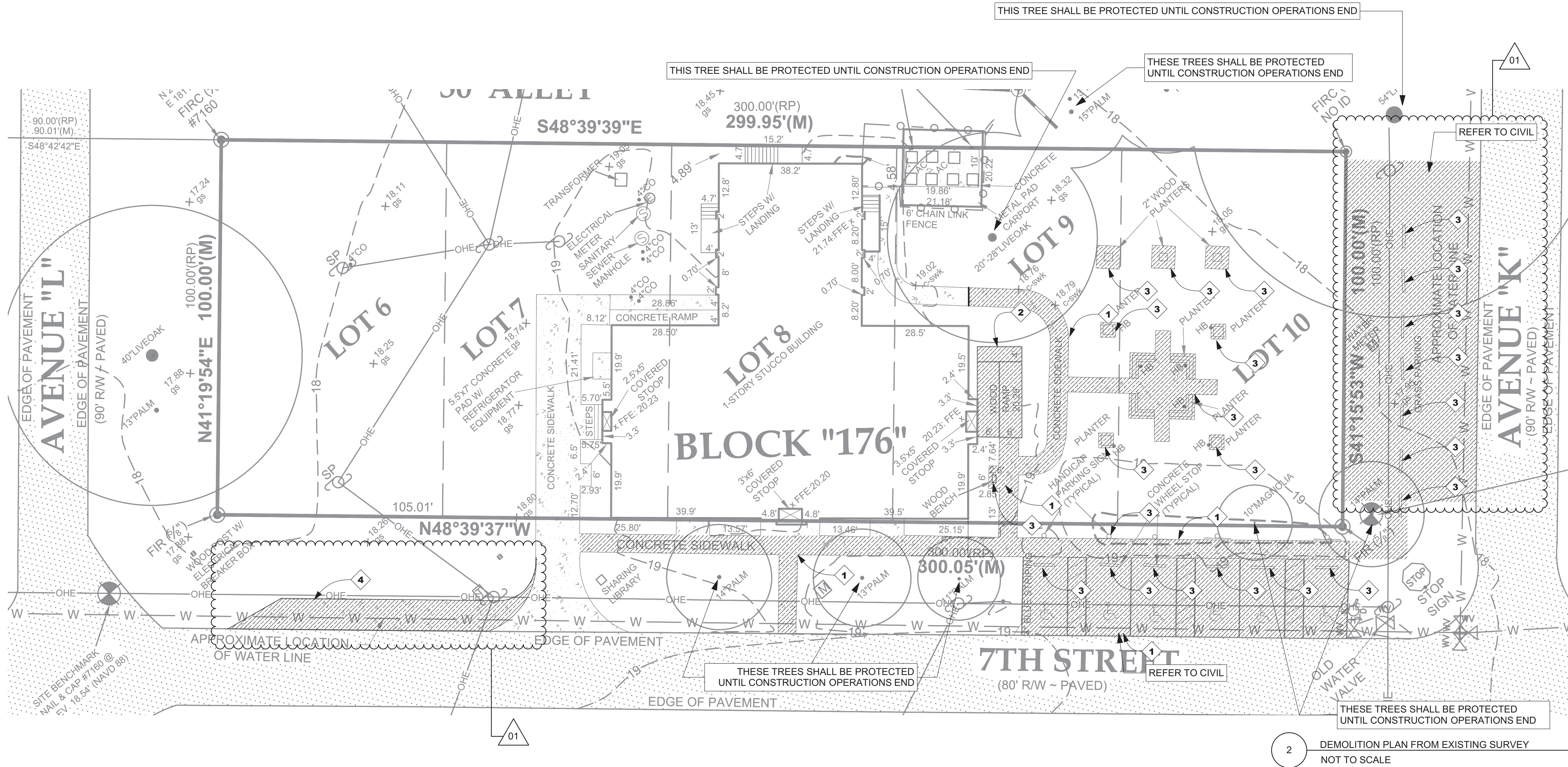
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**JOB NO.** HDGA 2314

**SIGNATURE & SEAL**  
Digitally signed by Bret D Hammond  
Date: 2025.05.30 13:42:12 -04'00'

**DRAWING**

**AD1.01**



**KEY NOTES**

**REFER TO CIVIL DRAWINGS**

CONTRACTOR TO USE CAUTION TO AVOID UNNECESSARY DAMAGE TO EXISTING STRUCTURE WHEN DEMOLISHING ACCESS RAMP. COMPLETELY REPAIR & REFINISH TO A LIKE-NEW CONDITION, MATCHING SURROUNDINGS.

CONTRACTOR TO COORDINATE WITH OWNER TO DETERMINE IF ANY ELEMENTS DESIGNATED FOR DEMOLITION SHOULD BE INSTEAD MARKED FOR DISASSEMBLY & STORED FOR LATER INSTALLATION OR FOR OWNERS' USE. ELEMENTS INCLUDE:  
HANDICAP PARKING SIGNS & WHEELSTOPS  
HOSE BIBBS & PLANTER BOX MATERIAL  
BUILT-IN FURNITURE (WOOD & METAL BENCHES)

PARKING AREAS MARKED FOR DEMOLITION ARE APPROXIMATE AND SHOULD BE COORDINATED WITH CIVIL DRAWINGS.

PROTECT TREES NOT DESIGNATED FOR REMOVAL. WRITTEN APPROVAL BY THE CITY OF APALACHICOLA SHALL BE REQUIRED BEFORE REMOVAL OF ANY TREE.

**DEMOLITION LEGEND**

- COMPLETELY REMOVE CONCRETE/ASPHALT. PREPARE TO RECEIVE NEW CONCRETE OR ASPHALT - REFER TO CIVIL
- COMPLETELY REMOVE WOOD RAMP & LANDINGS. PREPARE TO RECEIVE NEW CONCRETE RAMP - REFER TO A0.1&A0.2
- COMPLETELY REMOVE PLANTERS, HOSE BIBBS, WHEELSTOPS, HANDICAP PARKING SIGNS, BENCHES, ETC.
- COMPLETELY REMOVE CONCRETE/ASPHALT. PREPARE TO RECEIVE NEW CONCRETE OR ASPHALT - REFER TO CIVIL

**GENERAL DEMOLITION NOTES**

EXISTING CONDITIONS AS SHOWN ARE BASED ON FIELD MEASUREMENTS AND MAY VARY. ACTUAL FIELD CONDITIONS SHALL GOVERN.

CONTRACTOR(S) SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT 10 DAYS PRIOR TO BID SUBMISSION.

CONTRACTOR IS RESPONSIBLE FOR ALL THE PERMITS NECESSARY FOR THE DEMOLITION OF AREAS INDICATED AND SHALL COMPLY WITH THE APPROPRIATE AGENCIES AND REGULATIONS GOVERNING THE DISPOSAL OF THE DEMOLISHED MATERIALS.

PROCEED WITH SELECTIVE DEMOLITION SYSTEMATICALLY FROM HIGHER TO LOWER. STRUCTURAL MODIFICATIONS ARE PROHIBITED. IN THE EVENT OF REQUIRED STRUCTURAL MODIFICATIONS, THEY SHALL BE SIGNED BY STRUCTURAL ENGINEER, LICENSED IN THE STATE OF FLORIDA, HIRED BY THE CONTRACTOR.

CONTRACTOR SHALL USE CAUTION & MONITOR FOR ANY HAZARDOUS MATERIALS DURING ALL PHASES OF CONSTRUCTION.

CONTRACTOR SHALL SECURE ANY AFFECTED AREAS BY THE END OF BUSINESS EACH DAY

LIMITS OF ALTERATION WORK - ALTERATION WORK ZONE LIMITS ARE ESTABLISHED ON THE DRAWINGS. ALL ALTERATION WORK CONTRACTORS AND TRADES SHALL COORDINATE THEIR WORK WITH ONE ANOTHER WITHIN THE ESTABLISHED LIMITS.

SEQUENCE OF ALTERATION WORK - IN THE EVENT THAT ANY SPECIAL SEQUENCING OF THE WORK IS REQUIRED BY OWNER, THE CONTRACTOR SHALL ARRANGE A CONFERENCE WITH THE OWNER FOR THE PURPOSE OF ESTABLISHING ANY SPECIAL SCHEDULING 72 HOURS BEFORE ANY SUCH WORK HAS BEGUN.

PROTECTIONS - PROVIDE ANY SPECIAL BARRICADING, MAINTAIN ANY SECURITY, REQUIRED LIGHTS, WARNING & DIRECTIONAL SIGNS, & ANY OTHER PROTECTIONS NEAR AND ABOUT THE SITE OF ALTERATION WORK AS MAY BE REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION.

PROTECT ANY ADJACENT SITES, STRUCTURES, PROPERTIES, & UTILITIES. MAINTAIN ALL SAFETY MEASURES UNTIL REMOVAL IS DIRECTED BY OWNER'S REPRESENTATIVE OR ARCHITECT.

ANY UTILITIES OR OTHER SERVICES THAT MAY BE UNCOVERED SHALL NOT BE DISTURBED BUT BROUGHT TO THE ARCHITECT'S ATTENTION FOR DIRECTION ON HOW TO PROCEED.

TEMPORARY SHORING - PROVIDE ANY TEMPORARY SHORING, CRIBBING, OR UNDERPINNING AS MAY BE REQUIRED, AT ANY TIME, AND IN ANY PORTION OF THE ALTERATION WORK.

GENERAL CUTTING & PATCHING - PERFORM ANY AND ALL CUTTING, PATCHING, AND GENERAL RESTORATION AS MAY BE REQUIRED BY THE ALTERATION WORK.

DISCONNECT AND SEAL ANY UTILITIES SERVING STRUCTURES TO BE DEMOLISHED. IF APPLICABLE.

CONTRACTOR REQUIRED TO KEEP WORK AREA AND ADJACENT SPACES, ESPECIALLY COMMON AREAS, CLEANED DAILY OF ALL CONSTRUCTION DEBRIS.

CONTRACTOR SHALL USE CAUTION TO MINIMIZE ADDITIONAL DAMAGE TO AREAS NOT DESIGNATED FOR DEMOLITION. REPAIR AND REFINISH ELEMENTS ADJOINING EXISTING ELEMENTS TO PROVIDE A SEAMLESS TRANSITION.





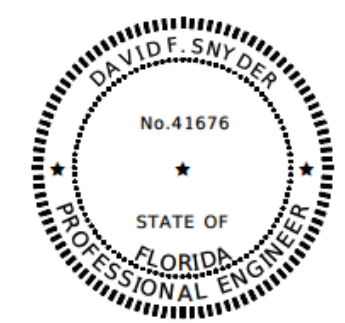
**CITY OF APALACHICOLA**  
**AFRICAN-AMERICAN CULTURAL HISTORY MUSEUM**  
**100% CONSTRUCTION DOCUMENTS**  
**FOR CONSTRUCTION**  
**EXISTING CONDITIONS**

**REVISIONS**

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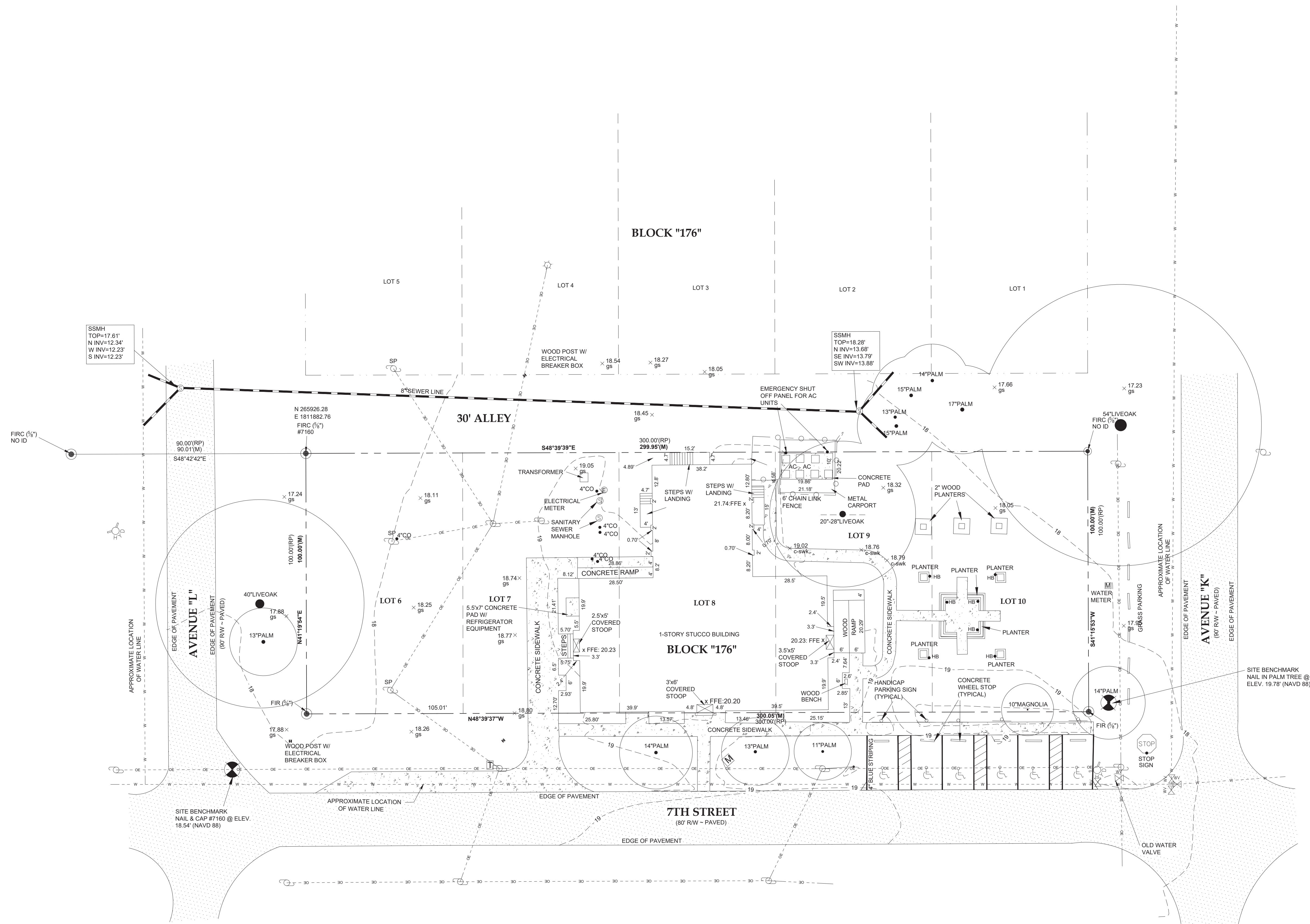
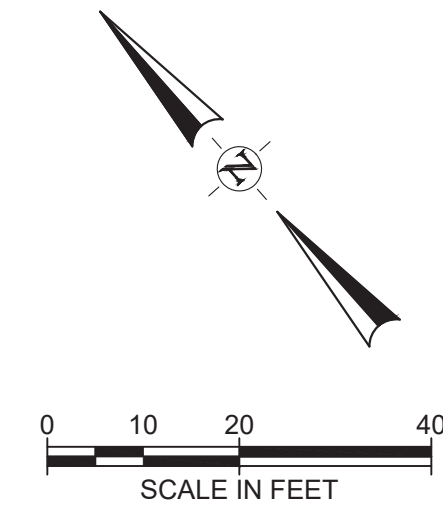
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**CHECKED** DS  
**JOB NO.** 54644.001

**SIGNATURE & SEAL**



**DRAWING**

**C0.1**



David F  
Snyder

Digitally signed by David F. Snyder  
DN: cn=David F. Snyder,  
o=Florida,  
email=dsnyder@hdmf.com,  
Date: 2025.05.29 09:50:11 -0400

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TALLAHASSEE, FLORIDA 32309  
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**THURMAN RODDENBERRY & ASSOCIATES, INC.**  
PROFESSIONAL SURVEYORS AND MAPPERS  
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1.B # 7160



FILE NAME: A:154000s154644001PLAN\CADD\Sheets\C-PLAN-PROJ-154644.dwg DATE: May 28, 2025, TIME: 9:59 AM, USER: ah014

SWPPP NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN NPDES CONSTRUCTION PERMIT PRIOR TO CONSTRUCTION ACTIVITIES AND FOR COMPLIANCE WITH ALL STATE, LOCAL, AND FEDERAL PERMITS RELATED TO THIS PROJECT.
- THE EROSION CONTROL MEASURES SET FORTH IN THESE PLANS ARE INTENDED AS MINIMUM STANDARDS. ALL EROSION CONTROL REQUIRED SHALL BE IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXPOSED AREAS, COST OF WHICH SHALL BE INCIDENTAL TO THE PROJECT.
- PRIOR TO THE REQUIRED PRE-CONSTRUCTION MEETING, CONTRACTOR SHALL PROVIDE IN WRITING THE NAME AND TELEPHONE NUMBER OF THE STORMWATER CONTROL OFFICER TO THE OWNER, THE OWNER'S DESIGNATED REPRESENTATIVE, CITY OF APALACHICOLA GROWTH MANAGEMENT, AND FDEP. THE OFFICER SHALL BE CERTIFIED UNDER THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM AND SHALL BE AVAILABLE IN PERSON OR BY PHONE AT ALL TIMES DURING CONSTRUCTION.
- THE STORMWATER CONTROL OFFICER SHALL BE RESPONSIBLE FOR CONTINUALLY MONITORING WEATHER CONDITIONS AND EVALUATE THE EFFECTIVENESS OF THE CONTROL MEASURES THROUGHOUT ALL PHASES OF CONSTRUCTION.
- AS CONSTRUCTION PROGRESSES, THE STORMWATER CONTROL OFFICER SHALL MAKE ADJUSTMENTS AND/OR INSTALL ADDITIONAL MEASURES TO PREVENT DIRECT FLOW OR TRACKING OF SEDIMENTS ONTO ADJACENT PROPERTY, CONSERVATION AREAS, PUBLIC STREETS OR DRAINAGE SYSTEMS.
- ANY SEDIMENTS, GRAVEL OR MUD SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ADJACENT PROPERTY, ROADS OR INTO STORM DRAINAGE SYSTEMS SHALL BE RECOVERED AND DISPOSED OF PROPERLY.
- TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PLACED ADJACENT TO ANY WATERWAY OR DRAINAGE FEATURE PRIOR TO CONSTRUCTION AND REMAIN IN PLACE UNTIL CONSTRUCTION OF THE FEATURE IS COMPLETE AND ALL AREAS ARE SUITABLY STABILIZED.
- CONTRACTOR SHALL REVISE THE SWPPP WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING AN INSPECTION WHEN ADDITIONS AND/OR MODIFICATIONS TO BEST MANAGEMENT PRACTICES (BMPs) ARE NECESSARY TO CORRECT OBSERVED PROBLEMS. REVISIONS SHALL OCCUR WHENEVER:
  - A CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE AT THE CONSTRUCTION SITE HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE UNITED STATES NOT PREVIOUSLY ADDRESSED IN THE DOCUMENT.
  - DISCHARGES ARE CAUSING WATER QUALITY EXCEEDANCES, AS DEFINED BY THE EPA, OR THE BMPs ARE INEFFECTIVE IN MINIMIZING POLLUTANTS IN STORMWATER DISCHARGING FROM THE CONSTRUCTION SITE.
- EROSION CONTROL MEASURES SHALL REMAIN IN PLACE AT LOCATIONS SHOWN IN THE PLANS OR AS REQUIRED UNTIL CONSTRUCTION IS COMPLETED, SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. ALL EROSION CONTROL MEASURES ARE THEN TO BE REMOVED UPON APPROVAL BY THE CITY OF APALACHICOLA ENVIRONMENTAL INSPECTOR.
- EROSION CONTROL ITEMS ARE ESTIMATED FOR PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMENTATION AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT LOCATIONS DESCRIBED IN THE APPROVED SWPPP OR AS DIRECTED BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
- SWEEPING THE PERIMETER ROADS SHALL BE REQUIRED AS NEEDED TO REMOVE ANY DEBRIS OR SEDIMENT AS A RESULT OF PROJECT ACTIVITIES, AS PER THE CITY OF APALACHICOLA ENVIRONMENTAL INSPECTOR OR FDEP'S COMPLIANCE AND ENFORCEMENT OFFICER.
- ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED DURING ANY PHASE OF DEVELOPMENT, AT THE DISCRETION OF THE CITY OF APALACHICOLA ENVIRONMENTAL INSPECTOR OR FDEP'S COMPLIANCE AND ENFORCEMENT OFFICER.
- CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT SITE. SHOULD CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE. CONTRACTOR SHALL PROVIDE THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. SINCE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED THE MSDS MANAGEMENT PERMIT. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE AND WHO SHALL PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE.
- ALL SOD MATERIALS SHALL BE SUBJECT TO INSPECTION PRIOR TO PLACEMENT. ANY SOD WITH NOXIOUS WEEDS AND/OR GRASSES SHALL BE REJECTED FOR USE ON THE PROJECT. CONTRACTOR SHALL FURNISH THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICE DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, HAY, STRAW, AND MULCH MATERIALS ARE FREE OF NOXIOUS WEEDS.
- EQUIPMENT MAINTENANCE AND REPAIR SHALL BE LIMITED TO ONE AREA OF THE PROJECT. AN ADEQUATE NUMBER OF WASTE DISPOSAL RECEPTACLES FOR LIQUID AND SOLID WASTE SHALL BE PROVIDED. WASTE SHALL BE DISPOSED OF PROPERLY OFF-SITE. THE MAINTENANCE AREAS SHALL BE INSPECTED AND CLEANED DAILY. CARE SHALL BE TAKEN THAT ANY OILS, GASOLINE, GREASE, SOLVENTS, AND OTHER POTENTIAL POLLUTANTS SHALL NOT BE WASHED OFF-SITE, EITHER DIRECTLY OR INDIRECTLY, THROUGH THE STORMWATER CONVEYANCE SYSTEMS.
- WASTE COLLECTION AND DISPOSAL - A SUFFICIENT NUMBER OF WASTE AND TRASH RECEPTACLES SHALL BE PROVIDED AT ALL TIMES. RECEPTACLES AND OTHER WASTE COLLECTION AREAS SHALL BE KEPT NEAT AND ORDERLY. TRASH CANS AND DUMPSTERS SHALL HAVE COVERS TO PREVENT THE ENTRANCE OF RAINFALL. ALL WASTE MATERIALS SHALL BE COLLECTED WEEKLY AT A MINIMUM AND DISPOSED AT A SUITABLE LANDFILL. TRASH COLLECTION POINTS SHALL BE LOCATED WHERE THEY WILL BE LEAST IMPACTED BY CONCENTRATED STORMWATER RUNOFF.
- DEMOLITION AND ACCESS AREAS - DUST CONTROL TECHNIQUES SHALL BE USED DURING DEMOLITION WHERE LARGE AMOUNTS OF DUST ARE GENERATED. IF WATER OR SLURRY IS USED TO CONTROL DUST, IT SHALL BE RETAINED ON THE SITE.
- WASHING AREAS - AN AREA SHALL BE DESIGNATED BY THE CONTRACTOR FOR WASHING VEHICLES AND WILL BE LOCATED WHERE THE WASH WATER WILL SPREAD OUT AND EVAPORATE OR INFILTRATE DIRECTLY INTO THE GROUND OR WHERE THE RUNOFF CAN BE COLLECTED IN A TEMPORARY HOLDING OR SEEPAGE BASIN. WASH AREAS SHALL HAVE GRAVEL BASES TO MINIMIZE MUD GENERATION.
- STORAGE OF CONSTRUCTION MATERIALS - AN ISOLATED AREA SHALL BE DESIGNATED TO STORE CHEMICALS, CEMENTS, SOLVENTS, PAINTS, OR OTHER POTENTIAL WATER POLLUTANTS. THE AREA SHALL BE SO LOCATED AS TO ELIMINATE RUNOFF POLLUTION. TOXIC CHEMICALS AND MATERIALS, SUCH AS PESTICIDES, PAINTS, AND ACIDS SHALL BE STORED ACCORDING TO THE MANUFACTURER'S GUIDELINES. CARE SHALL BE TAKEN IN THE USE OF THESE MATERIALS TO AVOID ACCIDENTAL SPILLS. GROUNDWATER RESOURCES SHALL BE PROTECTED BY THE USE OF PLASTIC MATS, TAR PAPER OR OTHER IMPERVIOUS MATERIALS ON ANY GROUND SURFACE WHERE TOXIC LIQUIDS ARE TO BE OPENED AND STORED.
- SANITARY FACILITIES - ADEQUATE SANITARY FACILITIES SHALL BE PROVIDED DURING ALL CONSTRUCTION PHASES FOR WORKERS ACCORDING TO APPLICABLE HEALTH AND SAFETY PRACTICES AND REGULATIONS.
- ALL DISTURBED AREAS TO BE LEFT IDLE LONGER THAN 14 DAYS MUST BE STABILIZED WITH QUICK GROW GRASS SEED AND MULCH.
- ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED, DURING ANY PHASE OF THE DEVELOPMENT, AT THE DISCRETION OF THE CITY OF APALACHICOLA'S ENVIRONMENTAL INSPECTOR.
- NO TRENCHING OR EXCAVATION SHALL BE ALLOWED WITHIN THE CPZ OF PROTECTED TREES, EXCEPT WHERE DEBITS OR AN ARBORICULTURAL MITIGATION PLAN HAVE BEEN NOTED ON THE PLANS.
- WHERE UNDERGROUND UTILITIES CONFLICT WITH PROPOSED PLANTINGS, TREE PLACEMENT SHALL BE A MINIMUM OF TEN FEET FROM THE UNDERGROUND UTILITY OR A ROOT BARRIER OF TWO FEET DEEP SHALL BE INSTALLED.

SURVEY PROVIDED BY:

TR & A

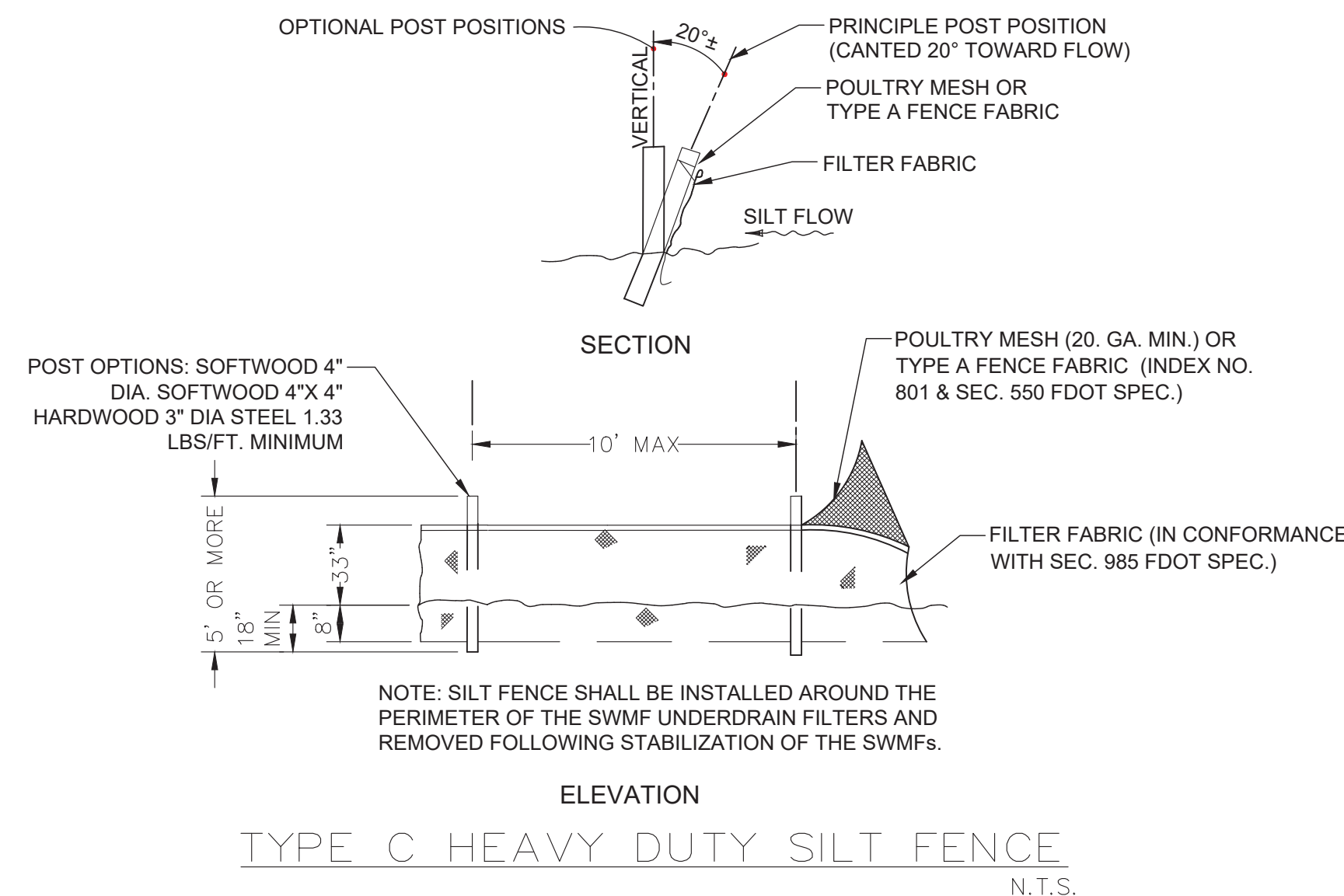
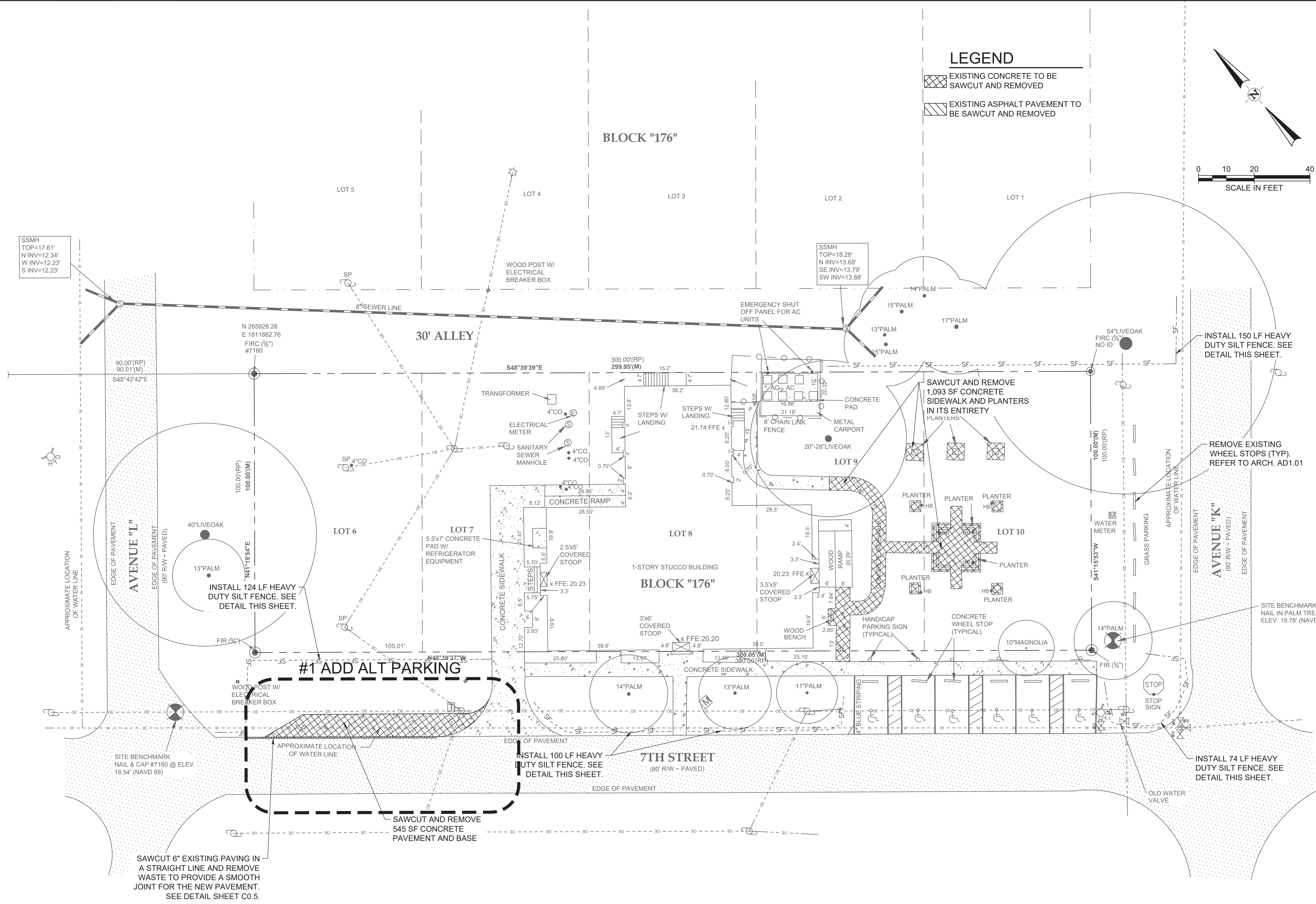
THURMAN RODDENBERRY & ASSOCIATES, INC

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L.B. # 7160



**HISTORICAL RESOURCES**  
IF A CONCENTRATION OF PREHISTORIC OR HISTORIC ARTIFACTS, SUCH AS POTTERY OR CERAMICS, STONE TOOLS OR METAL IMPLEMENTS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN CULTURES, EARLY COLONIAL, TERRITORIAL OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME WITHIN THE PROJECT AREA, THE PERMITTED PROJECT SHOULD CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF SUCH DISCOVERIES. THE AGENCY SHOULD CONTACT THE COMPLIANCE AND REVIEW SECTION, AS WELL AS THE APPROPRIATE PERMITTING AGENCY. PROJECT ACTIVITIES SHOULD NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION FROM THE DIVISION OF HISTORICAL RESOURCES. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK MUST STOP IMMEDIATELY AND PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH SECTION 872.5, FLORIDA STATUTES.

half

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CITY OF APALACHICOLA  
AFRICAN-AMERICAN CULTURAL HISTORY MUSEUM

100% CONSTRUCTION DOCUMENTS  
FOR CONSTRUCTION

DEMOLITION AND  
EROSION CONTROL PLAN

REVISIONS

ID	DATE	DESCRIPTION

DATE: 05/30/2025  
DRAWN: SRW  
CHECKED: DS  
JOB NO.: 54644.001

SIGNATURE & SEAL

DAVID F. SNYDER  
No. 41676  
STATE OF FLORIDA  
REGISTERED PROFESSIONAL ENGINEER

DATE: 05/30/2025

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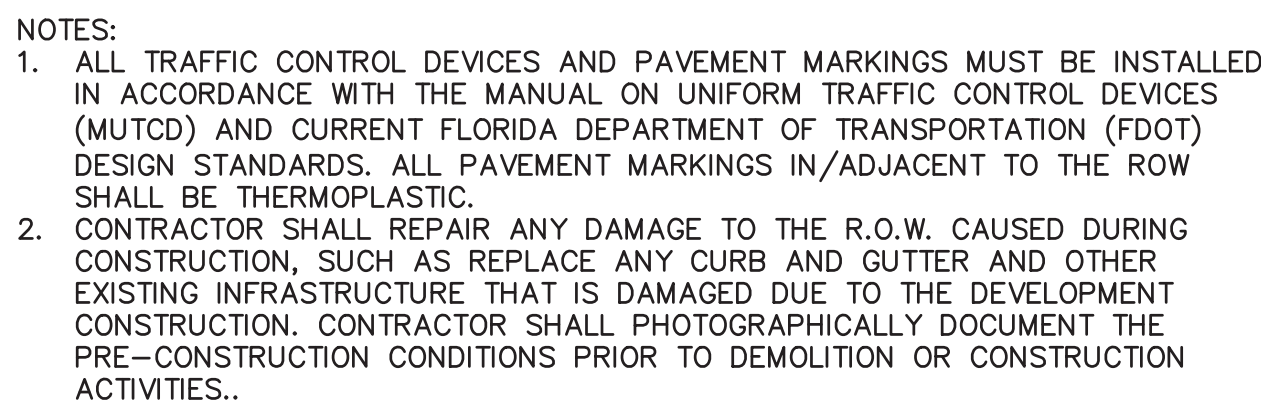
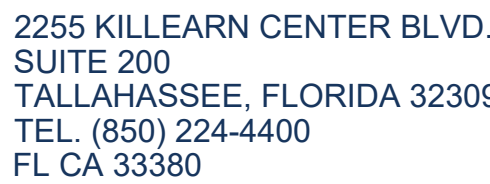
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DATE           ■ 05/30/2025  
DRAWN        ■ SRW  
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JOB NO.       ■ 54644.001

A circular professional engineer seal for David F. Snyder. The outer ring contains the text "DAVID F. SNYDER" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner circle contains the text "No. 41676" at the top, a single star in the center, and "STATE OF FLORIDA" at the bottom.

# CO.3

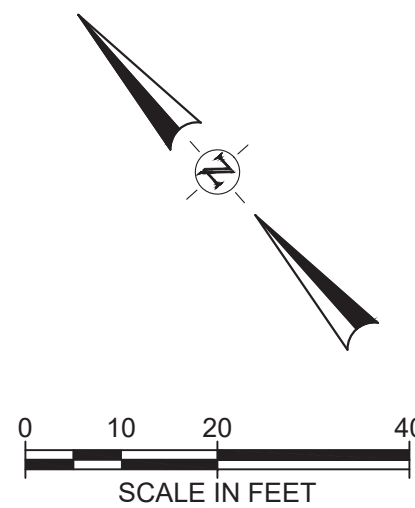




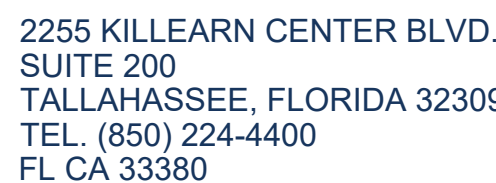
## 100% CONSTRUCTION DOCUMENTS FOR CONSTRUCTION

**DATE** ■ 05/30/2025  
**DRAWN** ■ SRW  
**CHECKED** ■ DS  
**JOB NO.** ■ 54644.001

## CO.4



1. ACCESSIBLE PARKING SPACES SHALL BE 12' WIDE, AND OUTLINED WITH BLUE PAINT. §502.2 AND §502.6, FBC-A
2. ACCESS AISLES REQUIRED ADJACENT TO PARKING SPACES SHALL BE 5' WIDE WITH DIAGONAL STRIPING. §502., FBC-A
3. ACCESSIBLE PARKING AND ACCESS AISLES SHALL BE LEVEL (NOT TO EXCEED 1:48) ON A STABLE, FIRM & SLIP RESISTANT SURFACE. RE: §302.1, §502.3. FBC-A
4. ACCESSIBLE PARKING SIGNS SHALL BE FDOT APPROVED AND SHALL READ 'PARKING BY DISABLED PERMIT ONLY' AND SHALL INDICATE A \$250 FINE FOR ILLEGAL USE. INSTALL SIGNS A MINIMUM 60"(INCHES) FROM THE GROUND TO THE BOTTOM OF THE SIGN(S). RE: §502.6 AND F.S 553.5041.
5. ALL RAMPS WITH A RISE GREATER THAN 6" SHALL PROVIDE EDGE PROTECTION COMPLYING WITH §405.9 FACBC. RAMPS SHALL HAVE 60" MIN LEVEL LANDINGS AT THE TOP & BOTTOM. RE: §405.7. FBC-A.
6. ALL RAMPS WITH A RISE GREATER THAN 6" SHALL HAVE HANDRAILS ON BOTH SIDES WITH 12" HORIZONTAL EXTENSIONS AT THE TOP & BOTTOM OF THE RAMP. RE: §1010.9 FBC-B (FLORIDA BUILDING CODE – BUILDING) AND §505.10 FBC-A.
7. ACCESSIBLE ROUTES TO "MAIN ENTRY" FROM AN ACCESSIBLE PARKING SPACE, AND FROM THE "PUBLIC WAY", SHALL NOT EXCEED 1:20 SLOPE (UNLESS RAMPS, HANDRAILS WITH PROPER EXTENSIONS ARE PROVIDED) WITH CROSS SLOPE NOT IN EXCESS OF 1:48. RE: §206, §402 AND §403., FBC-A.





FILE NAME: A:\54000s\54644\100\PLANCADD\Sheets\C-PLAN-PROJ-54644.dwg DATE: May 28, 2025, TIME: 9:59 AM, USER: ah5014

GENERAL CONSTRUCTION NOTES:

- ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK AND SHALL CONFORM TO THE MINIMUM STANDARDS SET FORTH BY THE CITY OF APALACHICOLA.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH ALL THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS.
- THE CONTRACTOR SHALL, PRIOR TO ANY CONSTRUCTION ACTIVITY, SPONSOR A PRE-CONSTRUCTION MEETING WITH ALL PERMITTING AGENCIES INVOLVED, INCLUDING, THE CITY OF APALACHICOLA, HAMMOND DESIGN GROUP, HALFF, AND UTILITY OWNERS WHOSE SYSTEMS ARE WITHIN THE LIMITS OF CONSTRUCTION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING THE CITY WITH A LOCATION FOR STAGING PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS BEFORE PERFORMING WORK IN THE AFFECTED AREA.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT.
- ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT", CHAPTER 553, PART III, FLORIDA STATUTES. THE CONTRACTOR SHALL INSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATION.
- PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT DRAWINGS ON ALL PRE-CAST MATERIALS AND MANUFACTURED ITEMS TO THE ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
- IF THE CONTRACTOR PROPOSES ANY MODIFICATION TO THESE PLANS OR STANDARDS, CONTRACTOR SHALL SUBMIT, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, DRAWINGS AND CALCULATIONS, DEMONSTRATING THE PROPOSED MODIFICATION WILL MEET THE REQUIREMENTS OF THE CONTRACT, REFERRED STANDARDS AND PERMITTING AGENCIES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE FOLLOWING IN THE FIELD: RIGHT OF WAY LINES, BENCHMARKS (ELEVATIONS), COORDINATES, CENTER LINES AND STATIONING AS MAY BE REQUIRED TO CONSTRUCT THE PROJECT.
- ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS.
- ALL EXISTING ITEMS SHOWN IN THE PLANS ARE TO REMAIN UNLESS OTHERWISE DENOTED.
- WHERE PROPOSED CURBING, ROADS, AND SIDEWALKS TIE INTO EXISTING CURBING, ROADS, AND SIDEWALKS, THE TIE IN POINT IS TO MATCH EXISTING.

PAVING AND GRADING NOTES:

- ALL ROADWAY WORK SHALL BE PERFORMED IN ACCORDANCE WITH FDOT "STANDARD PLANS FOR ROAD CONSTRUCTION" CURRENT EDITION.
- ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MULCH, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE ENGINEER, OR REPRESENTATIVE FROM THE SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER REPRESENTATIVE. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH THE SOILS REPORT. CONTRACTOR WILL ALSO REFER TO FDOT SPECIFICATIONS FOR FILL MATERIAL. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
- ALL NECESSARY FILL AND EMBANKMENT, THAT IS PLACED DURING CONSTRUCTION, SHALL CONSIST OF MATERIAL SPECIFIED BY THE SOIL TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS OR THE REFERENCED SOIL REPORTS.
- PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- CONTRACTOR TO PROVIDE A 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (BUILDING, OTHER POURED CONCRETE, ETC.).
- ALL PAVEMENT MARKINGS INSIDE CITY R.O.W. SHALL BE THERMOPLASTIC. ALL OTHER PAVEMENT MARKING SHALL BE MADE WITH PERMANENT PAINT U.N.O. AND ALL PAVEMENT MARKINGS SHALL CONFORM TO FDOT STANDARD PLANS 711-001.
- THE CONTRACTOR WILL STABILIZE BY SOD OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY THE OWNER.
- ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED PRIOR TO BASE AND SURFACE CONSTRUCTION.
- ALL WORKMANSHIP AND MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION, AND THE LATEST CITY OF APALACHICOLA STANDARDS, UNLESS OTHERWISE INDICATED. THE MORE STRINGENT SHALL BE APPLICABLE.
- EXISTING SIGNAGE THAT WILL BE AFFECTED BY CONSTRUCTION WILL BE RELOCATED DURING CONSTRUCTION AND KEPT VISIBLE AT ALL TIMES.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH AN INDEPENDENT TESTING COMPANY TO VERIFY COMPACTION. UPON COMPLETION OF THE WORK, SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO OWNER AND THE ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

MAINTENANCE OF TRAFFIC GENERAL NOTES:

- TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE CURRENT EDITION, FDOT STANDARD PLANS, INDEX 102-600 AND THE CURRENT EDITION FHWA "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". SIGNAGE SHALL BE IN ACCORDANCE WITH INDEX 102-603.
- TEMPORARY TRAVEL LANES SHALL NOT BE LESS THAN 10 FEET IN WIDTH ON ROADWAYS OPEN TO TRAFFIC AND ADJACENT SIDE ROADS. TRAVEL LANES ON ROADWAYS OPEN TO TRAFFIC SHALL BE PROPERLY DELINEATED DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE CLOSURES WITH BUSINESS OWNERS. THE CONTRACTOR SHALL REQUEST FROM THE PROJECT ADMINISTRATOR, A STREET, LANE OR SIDEWALK CLOSURE 24 HOURS IN ADVANCE OF SUCH CLOSURE.
- DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CLEAR ZONE REQUIREMENTS FOR EQUIPMENT AND MATERIALS STORAGE AND WORK ZONE PROTECTION AS SPECIFIED IN FDOT STANDARD PLANS 102-600.
- THE CONTRACTOR MUST PROVIDE TEMPORARY DRAINAGE WHEN HISTORICAL DRAINAGE PATTERNS ARE IMPEDED IN AN ACTIVE WORK ZONE. ANY ADDITIONAL COST ASSOCIATED WITH DRAINAGE (INSTALLATION AND REMOVAL OF TEMPORARY STRUCTURES, DESILTING OF EXISTING PIPES) SHALL BE INCIDENTAL TO MAINTENANCE OF TRAFFIC MEASURES.
- THE CONTRACTOR MUST PROVIDE A QUALIFIED MAINTENANCE OF TRAFFIC SUPERVISOR TO BE ON SITE WHEN WORK IS TAKING PLACE AND SHALL BE ON CALL FOR EMERGENCIES WHEN THE CONTRACTOR IS NOT AVAILABLE. THE CONTRACTOR SHALL PROVIDE THE PROJECT ADMINISTRATOR A 24-HOUR ON-CALL TELEPHONE NUMBER.
- THE PROJECT ADMINISTRATOR RESERVES THE RIGHT TO REQUIRE ADDITIONAL DEVICES AND/OR CHANGES TO THE TRAFFIC CONTROL PLAN BASED UPON CHANGING TRAFFIC CONDITIONS OR TRAFFIC SAFETY PROBLEMS.
- THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL OFFICER (WITH FLASHING LIGHTS) DURING ALL LANE CLOSURE OPERATIONS, NIGHT TIME OPERATIONS, AERIAL SIGNAL CONSTRUCTION OR MODIFICATIONS, AND DURING IMPLEMENTATION OF CHANGE IN THE TRAFFIC PATTERN (REROUTING OR SHIFTING TRAFFIC).
- OPEN TRENCHES MUST BE BACKFILLED BY THE END OF THE WORK DAY OR COVERED WITH TRENCH PLATES.

SITework NOTES:

- CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE RECONSTRUCTED, SEEDED, MULCHED OR SODDED WITHIN ONE WEEK FOLLOWING CONSTRUCTION.
- DURING CLEARING AND GRUBBING, THE REMOVED SOIL SHALL BE STOCKPILED AS DESIGNATED BY THE ENGINEER OR CITY OF APALACHICOLA TO BE USED FOR FILL PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER. REMAINING EARTHWORK THAT

- RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE. EXCESS MATERIAL IS TO BE EITHER STOCKPILED ON THE SITE OR DISPOSED OF AS DIRECTED BY THE OWNER. STOCKPILED MATERIAL WILL BE PROTECTED WITH SILT FENCING. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING EXCESS EARTHWORK FROM THE SITE.
- THE CONTRACTOR SHALL SURVEY AND STAKE THE CLEARING LIMITS AS INDICATED BY THE PLANS AND RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO COMMENCING WITH THE CLEARING AND GRUBBING OPERATION.
  - BURNING OF MATERIALS AND/OR DEBRIS AS A MEANS OF DISPOSAL IS PROHIBITED WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL DISPOSE OF ALL CLEARING AND GRUBBING MATERIAL OFF-SITE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING WRITTEN PERMISSION FROM THE PROPERTY OWNERS PRIOR TO STORING OR STAGING ANY EQUIPMENT OR MATERIALS ON ANY PROPERTY NOT OWNED BY THE CITY. A COPY OF THE WRITTEN PERMISSION WILL BE PROVIDED TO THE ENGINEER AND CITY PRIOR TO STORING OR STAGING.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL AND STATE REGULATIONS CONCERNING SITE SAFELY AND HANDLING AND DISPOSAL OF CONTAMINATED SOILS AND MATERIALS.
  - A-8 AND OTHER NON-SELECT SOILS, WHEN ENCOUNTERED, SHALL BE REMOVED FROM CONSTRUCTION AREAS AND BACK-FILLED WITH SELECT MATERIALS IN ACCORDANCE WITH FDOT INDICES 120-001 AND 120-002.
  - CLEARING AND GRUBBING INCLUDES THE REMOVAL OF ALL INCIDENTAL ITEMS INCLUDING BUT NOT LIMITED TO STRUCTURES, CONCRETE, ASPHALT, GRAVEL, FENCING AND ANY OTHER IMPROVEMENTS TO BE REMOVED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF SUCH ITEMS OFF SITE AT APPROVED FACILITIES.
  - ALL ROCKS OR STONES LARGER THAN 6" IN DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN 1-FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN 2" IN DIAMETER.
  - ANY DAMAGE TO EXISTING TOPOGRAPHIC FEATURES, NOT SPECIFICALLY ADDRESSED IN THE PLANS, SHALL BE RECONSTRUCTED AT THE COST OF THE CONTRACTOR.

EXISTING FACILITIES:

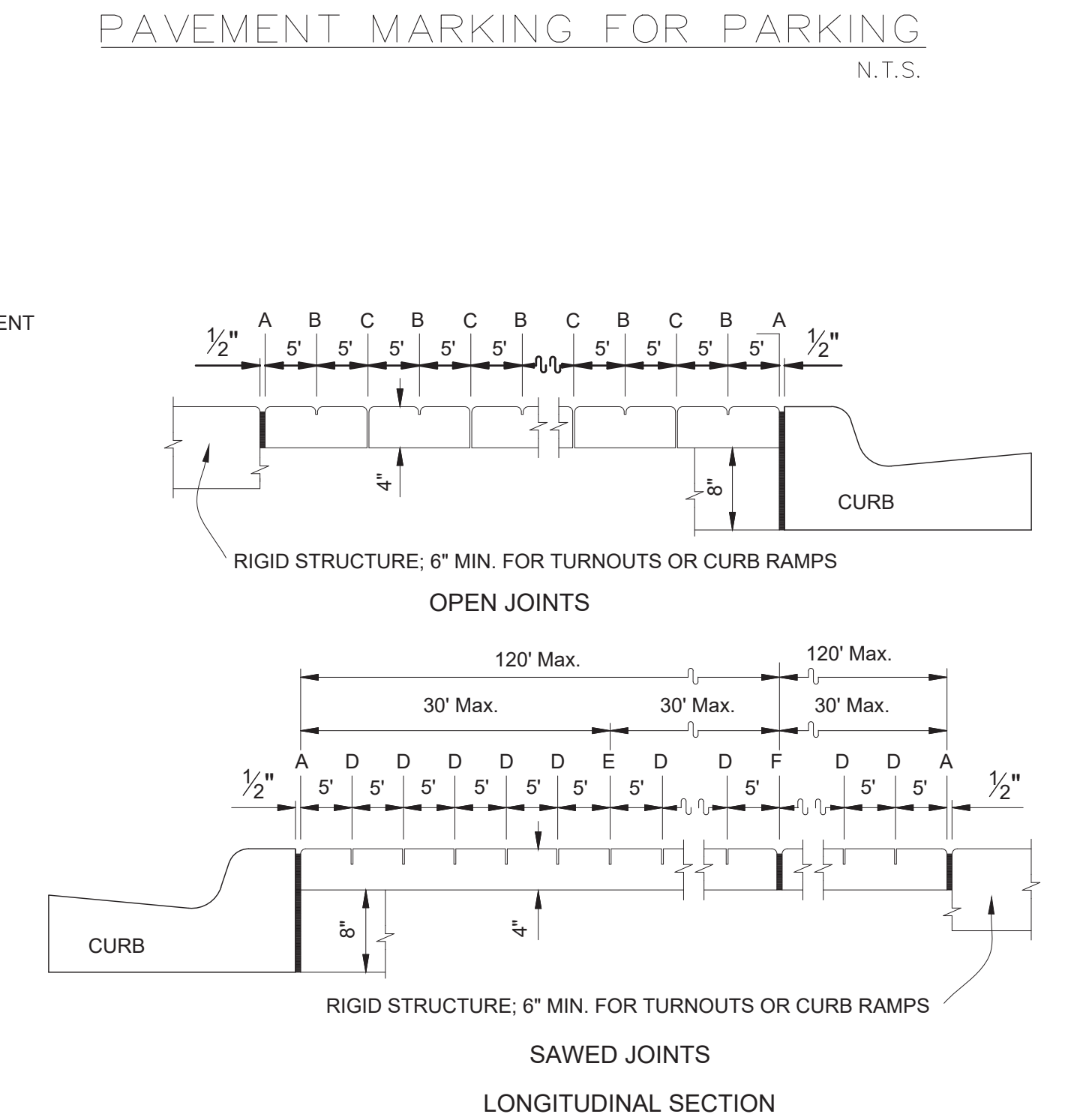
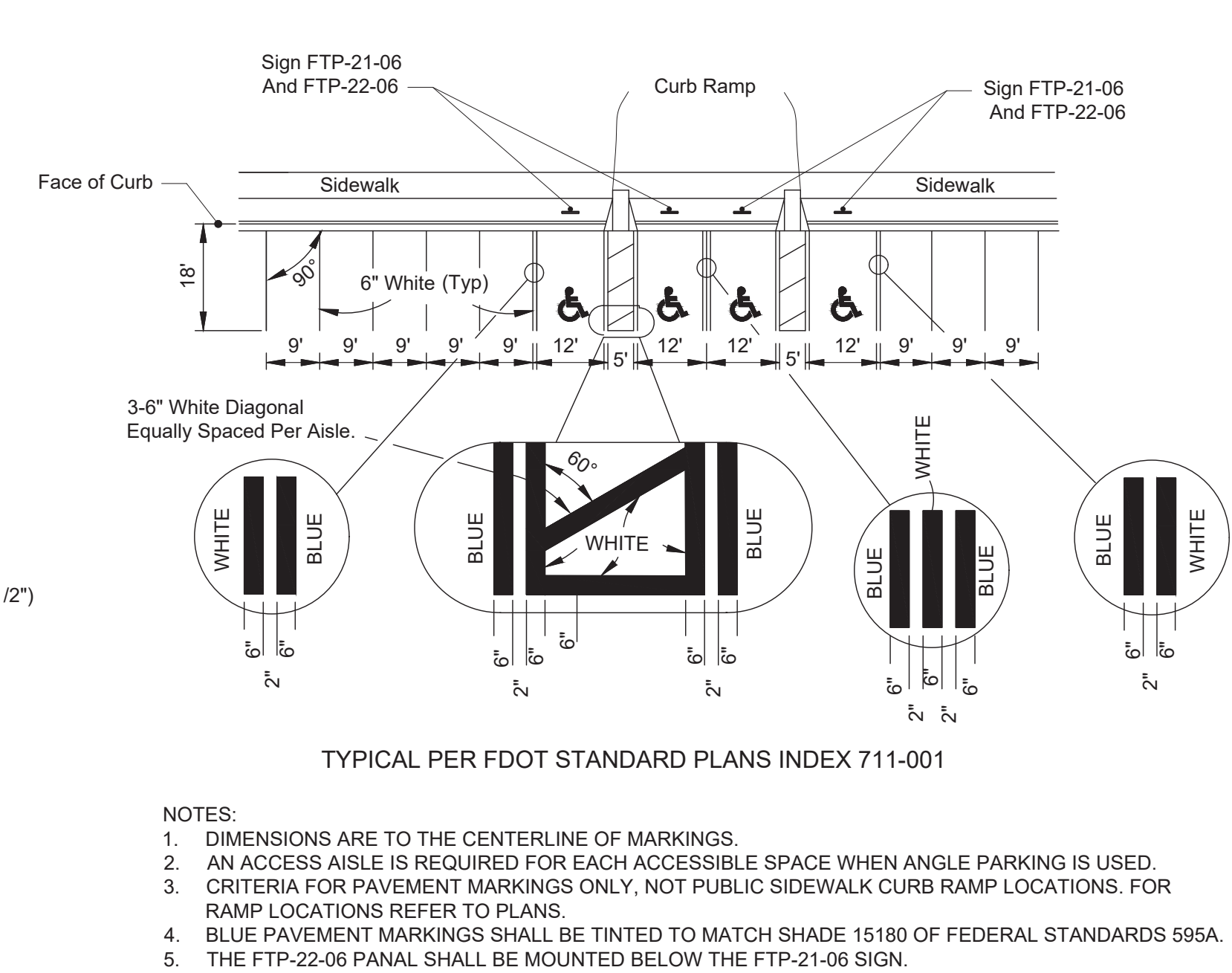
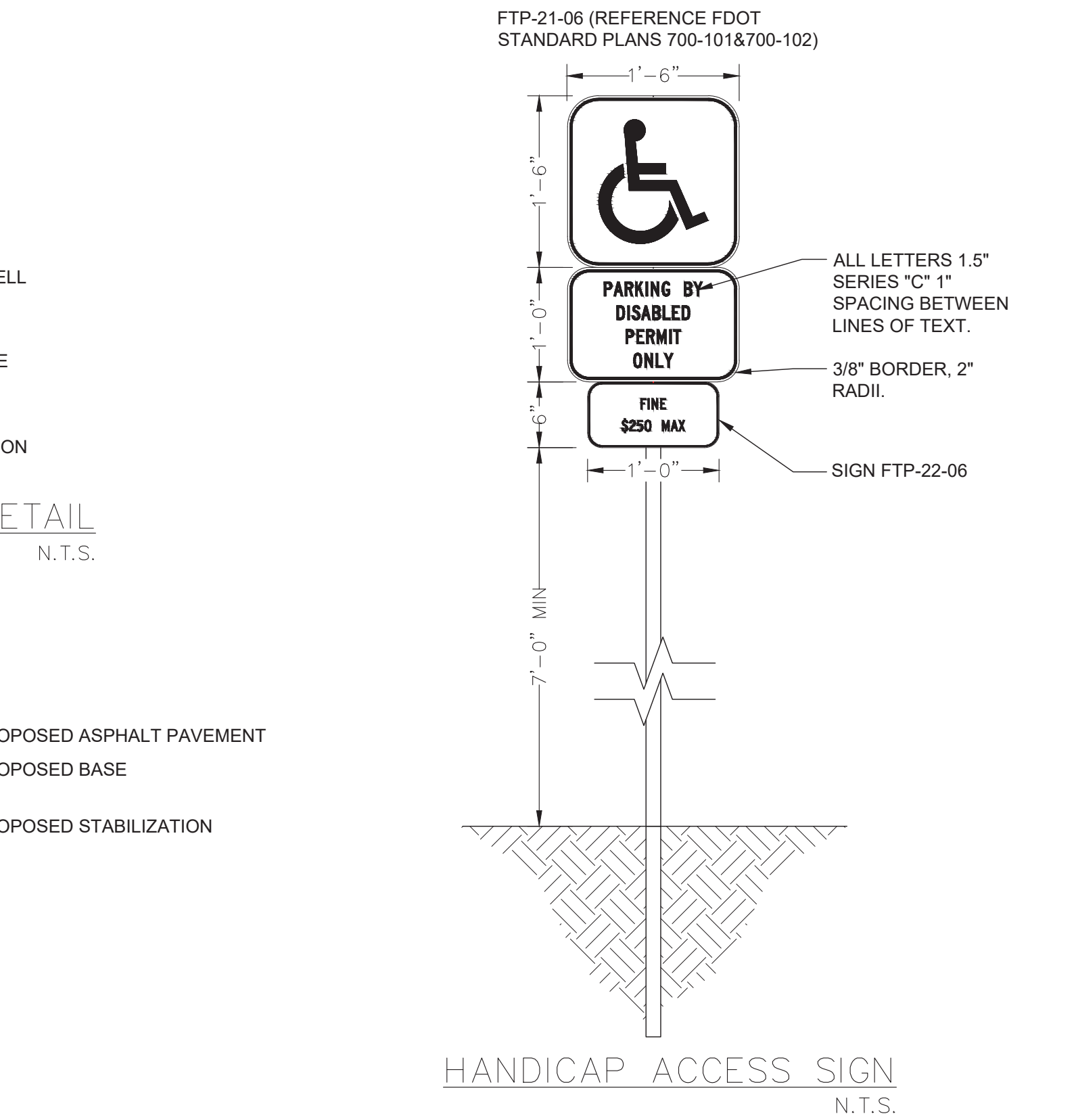
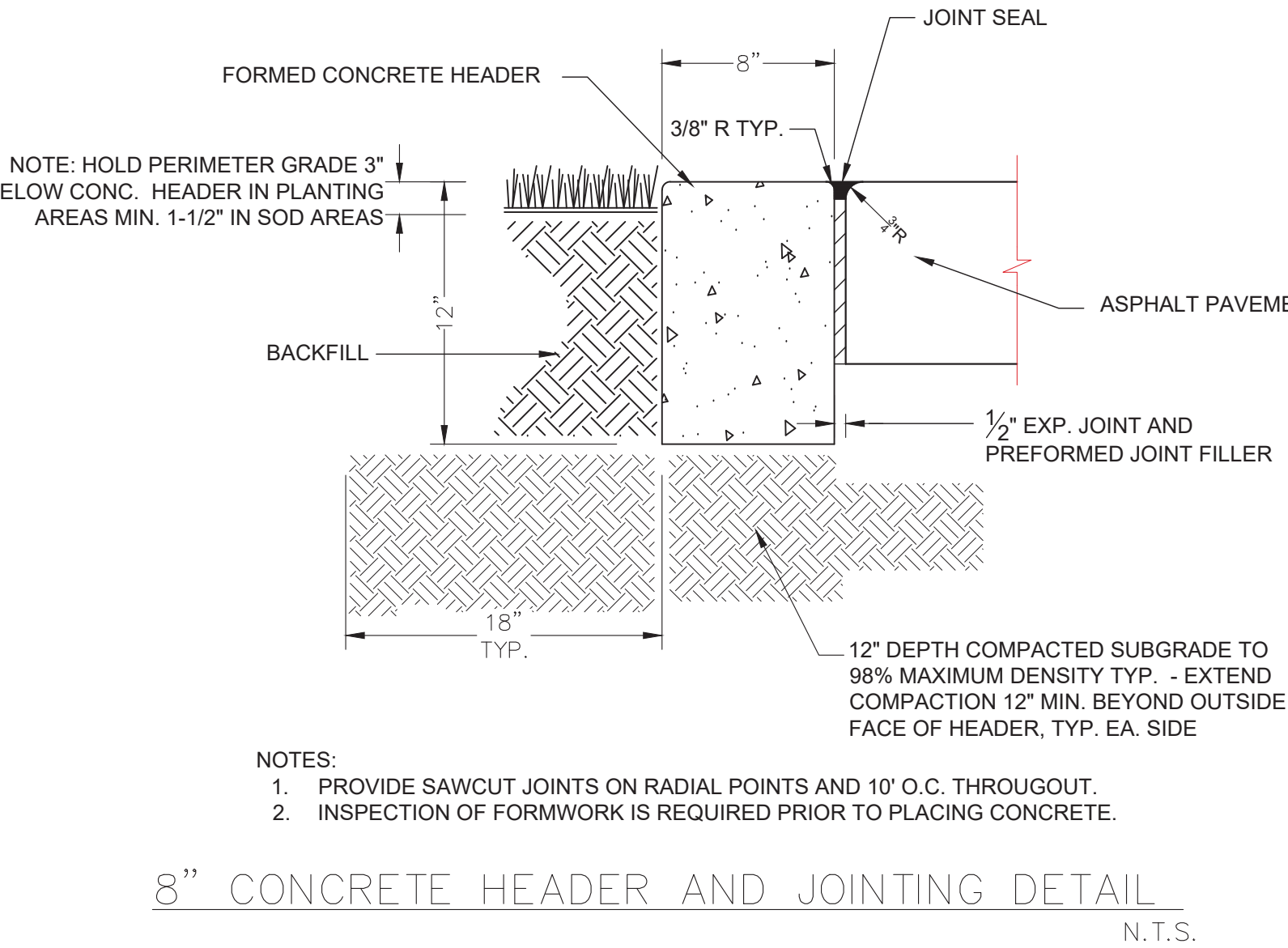
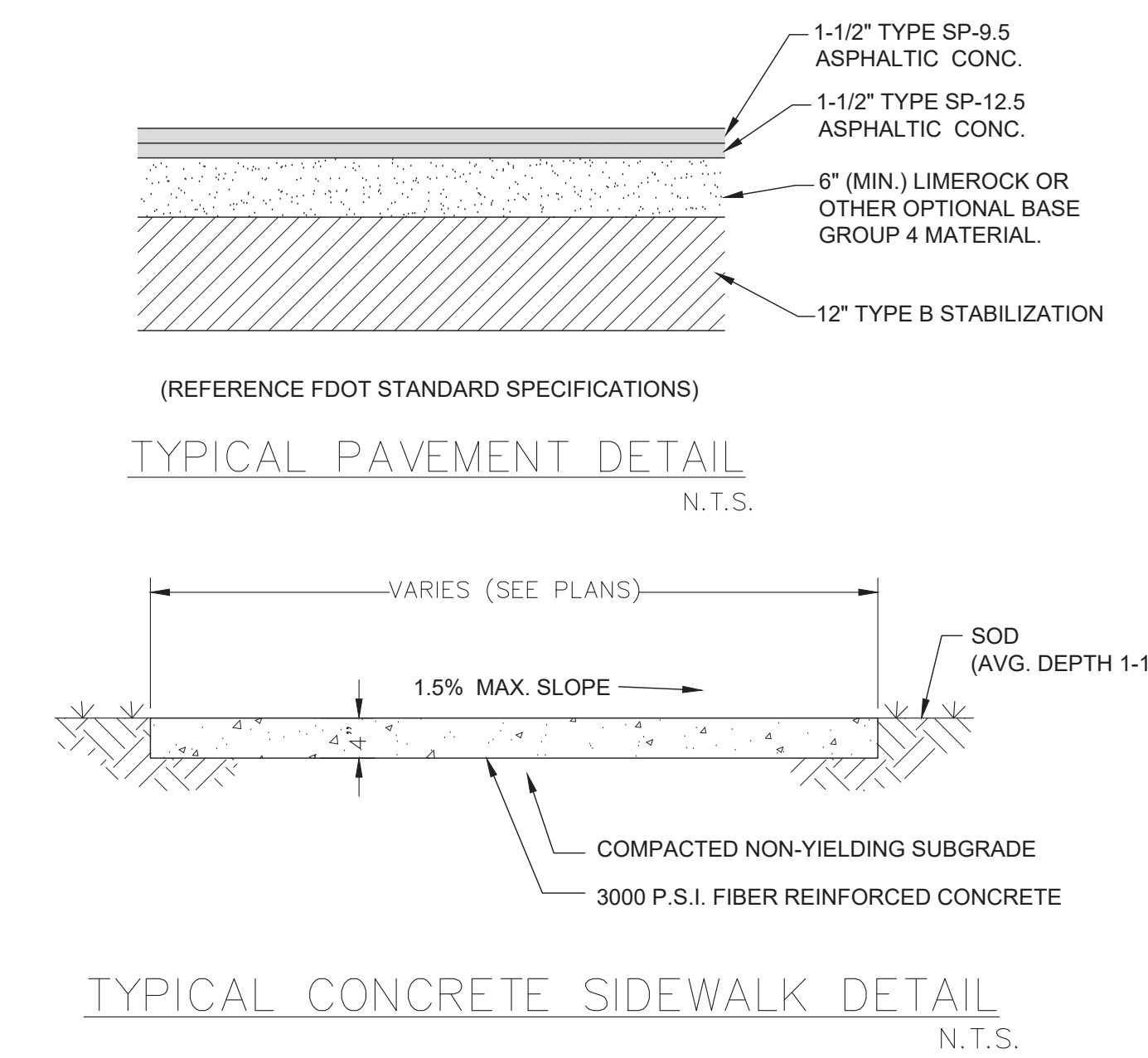
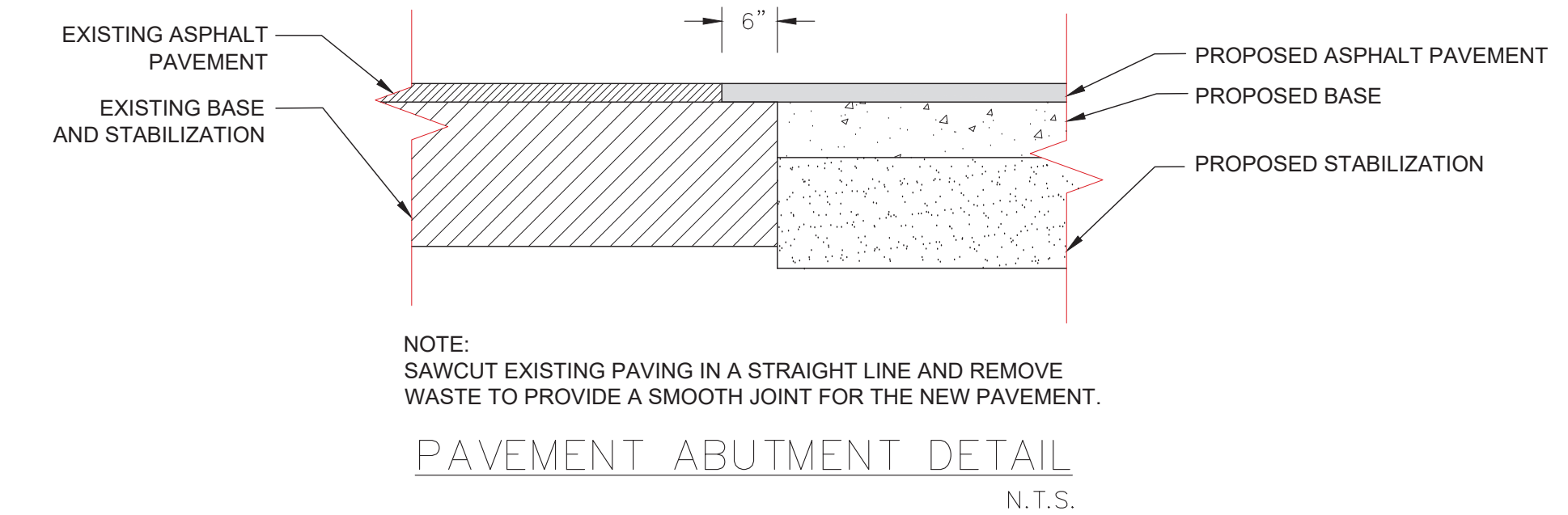
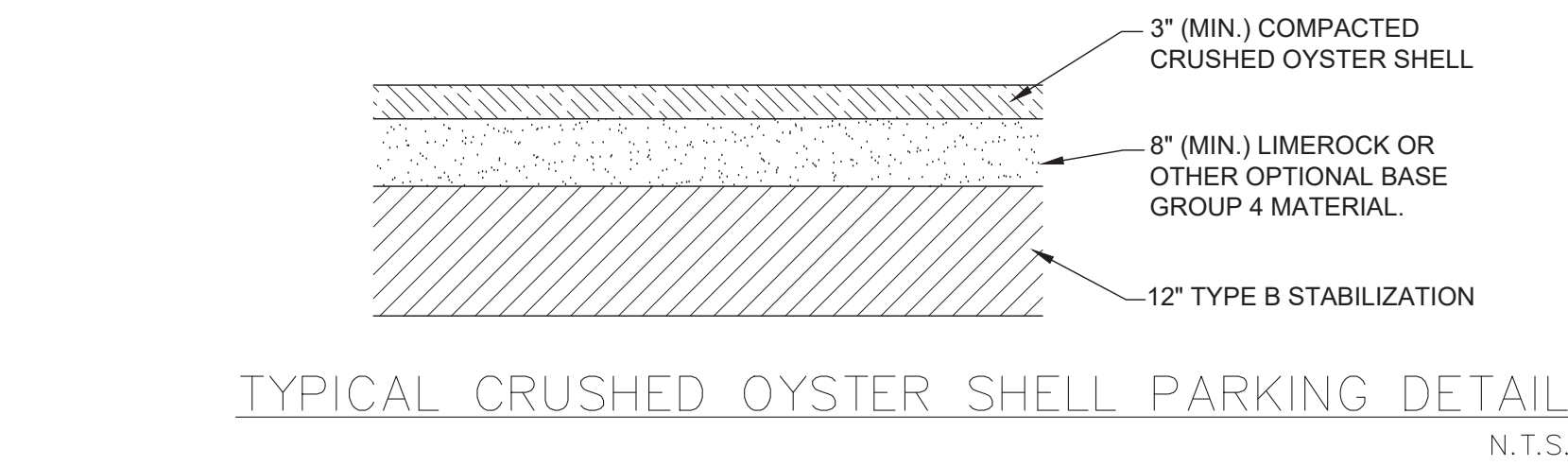
- INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE, AND LOCATION OF WATER AND WASTEWATER UTILITIES IS BASED ON THE CITY'S UTILITY RECORDS AND TOPOGRAPHIC SURVEYS PROVIDED BY THE OWNER. THE PLANS MAY NOT SHOW ALL UTILITIES (ACTIVE OR INACTIVE) WITHIN THE PROJECT LIMITS, OR THAT UTILITIES ARE ACTUALLY IN THE HORIZONTAL OR VERTICAL POSITIONS SHOWN ON THE PLANS. DETERMINE THE TYPE, SIZE, AND LOCATION OF UNDERGROUND UTILITIES TO ESTABLISH THEIR LOCATIONS AND TO AVOID DAMAGE TO OTHER UTILITIES. CALL 811 (SUNSHINE ONE CALL OF FLORIDA) AT LEAST TWO FULL BUSINESS DAYS BEFORE EXCAVATING TO HAVE UNDERGROUND UTILITIES MARKED.

AS-BUILT RECORD DRAWINGS:

- PREPARE AND SUBMIT TO THE ENGINEER FOR APPROVAL, FINAL RECORD DRAWINGS DEPICTING THE AS-BUILT CONDITIONS AS REQUIRED BY THE CITY OF APALACHICOLA PERMIT CLOSEOUT CHECKLIST. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND IT SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS IN THE CONTRACT.
- AS-BUILT CONDITIONS MEANS LOCATING BOTH HORIZONTALLY AND VERTICALLY ALL CONSTRUCTED IMPROVEMENTS ON THE SITE AND IDENTIFYING ELEVATIONS BY DEVELOPING CONTOURS AND SPOT ELEVATIONS TO DEMONSTRATE COMPLIANCE WITH DESIGN DRAWINGS.
- CONTRACTOR IS TO PROVIDE SIX (6) AS-BUILT DRAWINGS AND ASSOCIATED ELECTRONIC FILES IN DWG FORMAT.
- CONTRACTOR SHALL ALSO PROVIDE A FINAL AS-BUILT SURVEY (SIGNED AND SEALED BY A FLORIDA PROFESSIONAL SURVEYOR AND MAPPER).

SURVEY NOTES:

- ALL VERTICAL ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- HORIZONTAL DATUM REFERS TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
- ANY PUBLIC LAND CORNER OR BENCH MARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE IMMEDIATELY. ANY MONUMENT OTHERWISE DESTROYED BY CONTRACTOR SHALL BE RESET BY A FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AT CONTRACTOR'S EXPENSE.
- IF ANY GEODETIC MONUMENT WITHIN THE LIMITS OF CONSTRUCTION ARE DISTURBED, CONTRACTOR SHALL NOTIFY:  
DENIS RIORDAN  
REGIONAL GEODETIC ADVISOR  
NATIONAL GEODETIC SURVEY  
JACKSON, MS  
(240) 678-2107  
[DENIS.RIORDAN@NOAA.GOV](mailto:DENIS.RIORDAN@NOAA.GOV)
- ALL BENCHMARKS NOTED ON THE PLANS ARE TO BE MAINTAINED THROUGHOUT THE PROJECT. DESTROYED BENCHMARKS SHALL BE REDEFINED BY A FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AT THE CONTRACTOR'S EXPENSE.





2255 KILLEARN CENTER BLVD.  
SUITE 200  
TALLAHASSEE, FLORIDA 32309  
TEL. (850) 224-4400  
FL CA 33380

# HAMMOND

## Design

# GROUP, LLC

## ARCHITECTS

ARCHITECTURE LANDSCAPE ARCHITECTURE AR 18903

2627 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32301 • 5905  
850-222-2092 PHONE  
[www.hdg-architects.com](http://www.hdg-architects.com)

ARCHITECTURE AR 14284

RHODES +BRITO ARCHITECTS  
THE DAY BUILDING  
605 E. ROBINSON ST. SUITE 750  
ORALNDO, FLORIDA 32801  
407-648-7288 PHONE  
[www.rbarchitects.com](http://www.rbarchitects.com)

CITY OF APALACHICOLA  
AFRICAN-AMERICAN CULTURAL HISTORY MUSEUM

100% CONSTRUCTION DOCUMENTS  
FOR CONSTRUCTION

CONSTRUCTION NOTES AND DETAILS

REVISIONS		
ID	DATE	DESCRIPTION

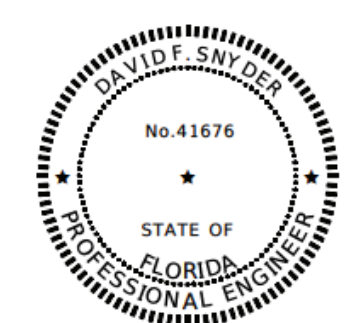
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DRAWN SRW

CHECKED DS

JOB NO. 54644.001

SIGNATURE & SEAL



DRAWING

# C0.5



ABBREVIATIONS

A/C	AIR CONDITIONER	HDR	HEADER
AB	ANCHOR BOLT	HORIZ	HORIZONTAL
ADJ	ADJACENT	HT	HEIGHT
AFF	ABOVE FINISHED FLOOR	HVAC	HEATING , VENTILATION & A/C
AGG	AGGREGATE	IN	INCH
ALT	ALTERNATE	INSUL	INSULATION
ALUM	ALUMINUM	INT	INTERIOR
AO	ACCESS OPENING	JT	JOINT
APPROX	APPROXIMATE	K	KIPS
ARCH	ARCHITECTURAL	KSI	KIPS PER SQUARE INCH
ASPH	ASPHALT	KSF	KIPS PER SQUARE FOOT
B	BOTTOM	L	ANGLE
BLDG	BUILDING	LAM	LAMINATED
BLKG	BLOCKING	LBS	POUNDS
BM	BENCH MARK	LL	LIVE LOAD
BO	BOTTOM OF	LLBB	LONG LEG BACK TO BACK
BRG	BEARING	LLH	LONG LEG HORIZONTAL
C	CHANNEL	LLV	LONG LEG VERTICAL
CANT	CANTILEVER	LWC	LIGHT WEIGHT CONCRETE
CIP	CAST IN PLACE	MAX	MAXIMUM
CJ	CONSTRUCTION JOINT	MBR	MEMBER
CL	CENTER LINE	MECH	MECHANICAL
< CMU	CONCRETE MASONRY UNIT	MFG	MANUFACTURER
COL	COLUMN	MIN	MINIMUM
CONC	CONCRETE	MISC	MISCELLANEOUS
CONN	CONNECTION	ML	MATCH LINE
CONST	CONSTRUCTION	MO	MASONRY OPENING
CONT	CONTINUOUS	MTL	METAL
CR	COLD ROLLED	N/A	NOT APPLICABLE
CTR	CENTER	NIC	NOT IN CONTRACT
DBL	DOUBLE	NOM	NOMINAL
DEG. ^	DEGREES	NS	NON SHRINK
DET	DETAIL	NTS	NOT TO SCALE
DIA.~	DIAMETER	OC	ON CENTER
DL	DIMENSION	PCF	POUNDS PER CUBIC FOOT
DTL	DEAD LOAD	PL,>	PLATE
DWG	DRAWING	PLF	POUNDS PER LINEAR FOOT
DWL	DOWEL	PREFAB	PREFABRICATED
EA	EACH	PRELIM	PRELIMINARY
EJ	EXPANSION JOINT	PSF	POUNDS PER SQUARE FOOT
ELEV	ELEVATION	PSI	POUNDS PER SQUARE INCH
ELEC	ELECTRICAL	PT	PRESSURE TREATED
EMBED	EMBEDMENT	RAD	RADIUS
ENCL	ENCLOSED	REF	REFERENCE
ENGR	ENGINEER	REINF	REINFORCED
EQ	EQUAL	REQ	REQUIRED
EST	ESTIMATED	SCHED	SCHEDULE
EW	EACH WAY	SECT	SECTION
EXIST	EXISTING	SF	SQUARE FOOT
EXT	EXTERIOR	SIM	SIMILAR
FAB	FABRICATE	SJ	STEEL JOIST INSTITUTE
FBC	FLORIDA BUILDING CODE	SLBB	SHORT LEG BACK TO BACK
FD	FLOOR DRAIN	SPEC	SPECIFICATION
FDN	FOUNDATION	SQ	SQUARE
FF	FINISHED FLOOR	STD	STANDARD
FFE	FINISHED FLOOR ELEVATION	STL	STEEL
FG	FINISHED GRADE	SYM	SYMMETRICAL
FIN	FINISH	T	TOP
FL	FLOOR	T&B	TOP & BOTTOM
FT	FEET	TEMP	TEMPERED
FTG	FOOTING	TOC	TOP OF CONCRETE
GA	GAUGE	TOM	TOP OF MASONRY
GALV	GALVANIZED	TOS	TOP OF STEEL
GC	GENERAL CONTRACTOR	UNF	UNFINISHED
GEN	GENERAL	UON	UNLESS OTHERWISE NOTED
GND	GROUND	VERT	VERTICAL
GYP	GYPSUM	W/	WITH
HC	HOLLOW CORE	W/O	WITH OUT
		WWF	WELDED WIRE FABRIC

GENERAL NOTES (2023 FBC)

- THE GOVERNING CODE FOR THIS PROJECT IS THE 2023 FLORIDA BUILDING CODE, 8<sup>th</sup> EDITION. THIS CODE PRESCRIBES WHICH EDITION OF EACH REFERENCE STANDARD APPLIES TO THIS PROJECT.
- TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL DRAWINGS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING BUILDING CODE.
- CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.
- THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DOCUMENTS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS.
- DETAILS LABELED "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEVED IN AT EACH LOCATION. QUESTIONS REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ARCHITECT.
- OPENINGS SHOWN ON STRUCTURAL DRAWINGS ARE ONLY PICTORIAL. SEE THE ARCHITECTURAL AND M.E.P. DRAWINGS FOR THE SIZE AND LOCATION OF OPENINGS IN THE STRUCTURE.
- CONTRACTORS WHO DISCOVER DISCREPANCIES, OMISSIONS OR VARIATIONS IN THE CONTRACT DOCUMENTS DURING BIDDING SHALL IMMEDIATELY NOTIFY THE ARCHITECT. THE ARCHITECT WILL RESOLVE THE CONDITION AND ISSUE A WRITTEN CLARIFICATION.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS AND DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS. USE ONLY PRINTED DIMENSIONS. ELECTRONIC DRAWINGS SHOULD NOT BE ASSUMED TO BE DRAWN TO SCALE. REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE STRUCTURAL ENGINEER OF RECORD.
- THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK AND THE PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOBSITE SAFETY INCLUDING ALL OSHA REQUIREMENTS.
- THE STRUCTURE IS DESIGNED TO BE STRUCTURALLY SOUND WHEN COMPLETED. PRIOR TO COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR STABILITY AND TEMPORARY BRACING, INCLUDING, BUT NOT LIMITED TO, MASONRY WALLS. WHEREVER THE CONTRACTOR IS UNSURE OF THESE REQUIREMENTS, THE CONTRACTOR SHALL RETAIN A FLORIDA LICENSED ENGINEER TO DESIGN AND INSPECT THE TEMPORARY BRACING AND STABILITY OF THE STRUCTURE.

SHOP DRAWINGS AND OTHER SUBMITTALS

- REFER TO DIVISION 1 OF THE SPECIFICATIONS FOR SUBMITTAL PROCEDURE AND REQUIREMENTS. REFER TO THE APPLICABLE SPECIFICATION SECTIONS FOR TECHNICAL CONTENT REQUIREMENTS. INCOMPLETE SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
- SUBMIT SPECIFIC COMPONENTS, SUCH AS COLUMN, FOOTINGS, ETC., IN A SINGLE PACKAGE.
- CAD FILES OF STRUCTURAL DRAWINGS MAY BE USED AS AN AID IN PREPARING SHOP DRAWINGS UPON THE CONTRACTOR SIGNING AN AGREEMENT AND PAYING THE FEE ESTABLISHED AT THE TIME, IF ANY.
- DO NOT USE OR REPRODUCE STRUCTURAL DRAWINGS AS PART OF SHOP DRAWINGS WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT/ENGINEER. IF CAD FILES ARE REQUESTED, THE CONTRACTOR MAY BE REQUIRED TO SIGN AN AGREEMENT FOR THE USE OF CAD FILES. WHEN CAD FILES OR COPIES OF THE STRUCTURAL DRAWINGS ARE MADE AVAILABLE, IT IS UNDER THE FOLLOWING CONDITIONS:
  - ALL INFORMATION CONTAINED IN THE CAD FILES OR COPIES OF THE STRUCTURAL DRAWINGS ARE INSTRUMENTS OF SERVICE OF THE ARCHITECT / ENGINEER AND SHALL NOT BE USED FOR OTHER PROJECTS, ADDITIONS TO THE PROJECT OR THE COMPLETION OF THE PROJECT BY OTHERS. CAD FILES AND COPIES OF THE STRUCTURAL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECT/ENGINEER AND IN NO CASE SHALL THEIR TRANSFER BE CONSIDERED A SALE,
  - CAD FILES OR COPIES OF THE STRUCTURAL DRAWINGS ARE NOT CONTRACT DOCUMENTS. IN THE EVENT OF A CONFLICT, THE STRUCTURAL DRAWINGS SHALL GOVERN,
  - THE USE OF CAD FILES OR COPIES OF THE STRUCTURAL DRAWINGS SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR PROPER CHECKING AND COORDINATION OF DIMENSIONS, DETAILS, SIZES AND QUANTITIES OF MATERIALS AS REQUIRED FOR THE PREPARATION OF COMPLETE AND ACCURATE SHOP DRAWINGS,
  - THE CONTRACTOR SHALL REVISE ALL REFERENCES TO CONTRACT DOCUMENT SHEET NUMBERS AND

- SECTIONS MARKS AND SHALL REMOVE INFORMATION THAT IS NOT REQUIRED FOR THEIR WORK FROM THE CAD FILES OR COPIES OF THE STRUCTURAL DRAWINGS, INCLUDING THE TITLE BLOCK.
- ON FIRST SUBMITTAL, CLEARLY FLAG AND CLOUD ALL DIFFERENCES FROM THE CONTRACT DOCUMENTS. ON RE-SUBMITTALS, FLAG AND CLOUD ALL CHANGES AND ADDITIONS TO PREVIOUS SUBMITTAL, ONLY CLOUDED ITEMS WILL BE REVIEWED.
  - SUBMITTALS FOR CUSTOM STRUCTURAL, LOAD-CARRYING ITEMS THAT ARE REQUIRED BY CODES OR STANDARDS TO RESIST FORCES MUST BE PREPARED BY, OR UNDER THE DIRECT SUPERVISION OF, A DELEGATED ENGINEER. EXAMPLES INCLUDE OPEN WEB STEEL JOIST, RE-ENGINEERED METAL BUILDINGS, STRUCTURAL LIGHT GAGE STEEL FRAMING, EXTERIOR ENCLOSURE SYSTEMS, AND SHORING AND RE-SHORING.
  - A DELEGATED ENGINEER IS DEFINED AS A FLORIDA LICENSED ENGINEER WHO SPECIALIZES IN AND UNDERTAKES THE DESIGN OF STRUCTURAL COMPONENTS OR STRUCTURAL SYSTEMS INCLUDED IN A SPECIFIC SUBMITTAL. PREPARED FOR THIS PROJECT AND IS AN EMPLOYEE OR OFFICER OF, OR CONSULTANT TO, THE CONTRACTOR OR FABRICATOR RESPONSIBLE FOR THE SUBMITTAL. THE DELEGATED ENGINEER SHALL SIGN, SEAL AND DATE THE SUBMITTAL, INCLUDING CALCULATIONS AND DRAWINGS, SEE SPECIFICATIONS FOR MORE SPECIFIC CRITERIA.
  - THE GENERAL CONTRACTOR SHALL REVIEW AND APPROVE SUBMITTALS AND SHALL SIGN AND DATE EACH DRAWING PRIOR TO SUBMITTING TO THE ARCHITECT. THIS APPROVAL IS TO CONFIRM THAT THE SUBMITTAL IS COMPLETE, COMPUES WITH THE SUBMITTAL REQUIREMENTS AND IS COORDINATED WITH FIELD DIMENSIONS, OTHER TRADES, ERECTION SEQUENCING AND CONSTRUCTIBLE.
  - THE STRUCTURAL ENGINEER REVIEWS SUBMITTALS TO CONFIRM THAT THE SUBMITTAL IS IN GENERAL CONFORMANCE WITH THE DESIGN CONCEPT PRESENTED IN THE CONTRACT DOCUMENTS, QUANTITIES AND DIMENSIONS ARE NOT CHECKED. BEING CONSTRUCTIBLE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR/FABRICATOR.
  - THE STRUCTURAL ENGINEER'S REVIEW OF DELEGATED ENGINEER SUBMITTALS IS LIMITED TO VERIFYING THAT THE SPECIFIED STRUCTURAL SUBMITTAL HAS BEEN FURNISHED AND SEALED BY THE DELEGATED ENGINEER AND THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND USED THE SPECIFIED STRUCTURAL CRITERIA. NO DETAILED CHECK OF CALCULATIONS WILL BE MADE. ALL COMMENTS BY THE STRUCTURAL ENGINEER WILL BE MADE ON THE SHOP DRAWINGS. CALCULATIONS ARE FOR ARCHITECT'S AND ENGINEER'S RECORDS AND ARE NOT APPROVED NOR RETURNED.

DESIGN LOADS

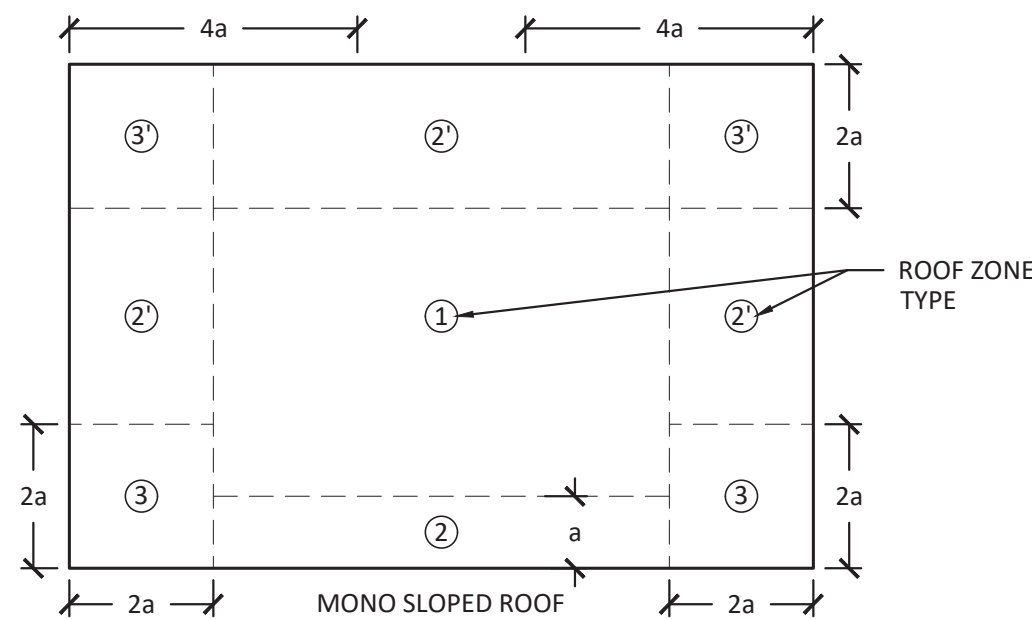
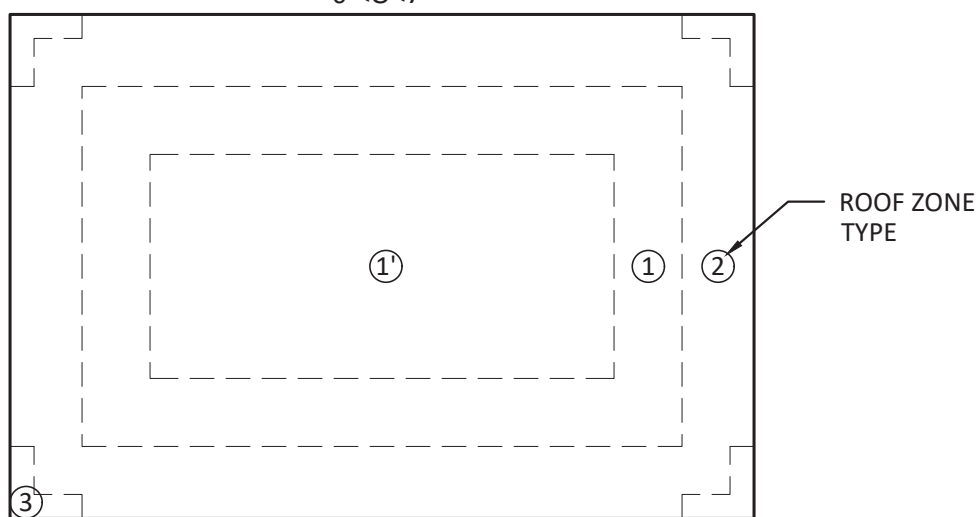
OCCUPANCY-	LIVE LOAD	DEAD LOAD	RAIN LOAD
ROOF	20 PSF	20 PSF	16 PSF
OFFICE	50 PSF	15 PSF	
PUBLIC CORRIDORS	80 PSF	15 PSF	
HANDRAILS & GUARDRAILS	200 LBS POINT OR 50 PLF		

LOADS LISTED ABOVE DO NOT INCLUDE MASONRY WALLS OR CONCRETE SLABS SELF WEIGHT.

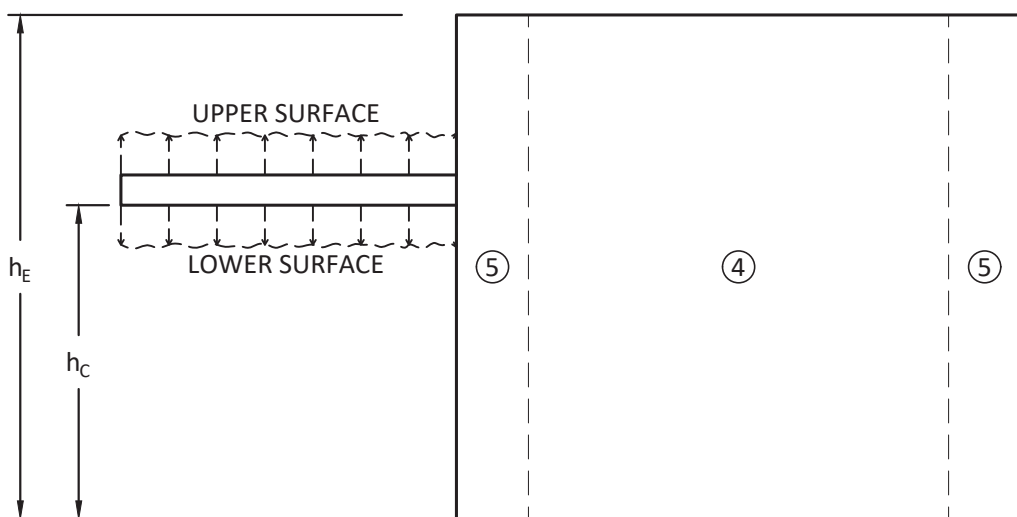
WIND LOAD DESIGN CRITERIA

GOVERNING CODE .....	ASCE 7-22
BUILDING TYPE.....	ENCLOSED
BUILDING CATEGORY.....	II
EXPOSURE CATEGORY.....	B
BASIC WIND SPEED.....	V =135 MPH
INTERNAL PRESSURE COEFFICIENT.....	GCFI = +/-0.18

FLAT/HIP/GABLE SLOPED ROOF  
0°<θ<7°



ATTACHED CANOPY



COMPONENT & CLADDING LOADS - FLAT ROOF			
TRIB AREA	PRESSURE		O.H. PRESSURE
ZONE (1) ROOF - INTERIOR			
10 SQ. FT.	16	-52.2	-52.2
20 SQ. FT.	16	-49.4	-51.6
50 SQ. FT.	16	-43.9	-50.3
100 SQ. FT.	16	-41.1	-49.5
ZONE (1') ROOF - INTERIOR			
10 SQ. FT.	16	-30.0	N.A.
20 SQ. FT.	16	-30.0	N.A.
50 SQ. FT.	16	-30.0	N.A.
100 SQ. FT.	16	-30.0	N.A.
ZONE (2) ROOF - EXTERIOR EDGE			
10 SQ. FT.	16	-68.8	-68.8
20 SQ. FT.	16	-64.7	-63.3
50 SQ. FT.	16	-58.3	-55.0
100 SQ. FT.	16	-55.0	-49.4
ZONE (3) ROOF - EXTERIOR CORNER			
10 SQ. FT.	16	-93.8	-93.8
20 SQ. FT.	16	-85.5	-82.7
50 SQ. FT.	16	-73.0	-69.4
100 SQ. FT.	16	-64.7	-60.5
EDGE ZONE (0.6h) = 8'-0" & (0.2h) = 3'-0"			

COMPONENT & CLADDING LOADS - WALLS			
TRIB AREA	PRESSURE		
ZONE (4)	WALLS - INTERIOR		PARAPETS
10 SQ. FT.	32.8	-35.5	101.7
20 SQ. FT.	30.0	-34.1	95.7
50 SQ. FT.	28.6	-32.8	87.9
100 SQ. FT.	27.2	-31.4	82.0
ZONE (5)	WALLS - CORNER		
10 SQ. FT.	32.8	-43.9	126.6
20 SQ. FT.	30.0	-41.1	116.3
50 SQ. FT.	28.6	-36.9	102.7
100 SQ. FT.	27.2	-34.1	92.3

NOTE:  
FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOADS MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.

- NUMBERS ARE THE GROSS ULTIMATE PRESSURES PERPENDICULAR TO THE SURFACE (IN PSF) BASED ON TRIBUTARY AREA. MULTIPLY ULTIMATE PRESSURES BY 0.6 TO OBTAIN PRESSURES FOR UNFACTORED LOADS USING ASD (ASCE 7-22 2.4).
- USE DL = 5 PSF TO CONVERT GROSS PRESSURES TO NET PRESSURES.
- NEGATIVE PRESSURES ACT AWAY FROM SURFACE, POSITIVE PRESSURES ACT TOWARD SURFACE.
- ALL DIMENSIONS ARE MEASURED PERPENDICULAR TO SURFACE.

SHALLOW FOUNDATIONS

- FOUNDATION DESIGN, SOIL PREPARATION AND COMPACTION ARE BASED ON GEO-TECHNICAL INVESTIGATION, DATA AND RECOMMENDATIONS IN FILE NO. 25-5997 BY ALPHA GEOTECHNICAL AND TESTING SERVICES, INC., DATED MARCH 4, 2025.
- FOOTING SIZES AND REINFORCING ARE BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF. ALL FOOTINGS SHALL BEAR ON COMPACTED FILL OR NATURAL SOIL PREPARED PER THE GEO-TECHNICAL REPORT.
- SUB-GRADE PREPARATION SHALL BE FIELD CONTROLLED AND TESTED BY A LICENSED SOILS ENGINEER IN ACCORDANCE WITH THE GEO-TECHNICAL REPORT. AT COMPLETION, THAT ENGINEER SHALL PREPARE AND SUBMIT TO THE OWNER, ARCHITECT, CONTRACTOR AND STRUCTURAL ENGINEER A SIGNED AND SEALED LETTER INDICATING THAT THE RECOMMENDATIONS OF THE GEO-TECHNICAL REPORT HAVE BEEN FOLLOWED.
- CENTER ALL FOOTINGS UNDER THEIR RESPECTIVE COLUMNS OR WALLS, U.O.N.
- TOP OF ALL FOOTINGS IS NOTED ON THE DRAWINGS.

SLAB ON GRADE

- REFER TO GEO-TECH FOR SUB-GRADE PREPARATION MORE THAN 12" BELOW BOTTOM OF SLAB.
- ABOVE SUB-GRADE, USE FILL CONTAINING NOT MORE THAN 10% PASSING #200 SIEVE AND MAXIMUM 1"Ø. COMPACT TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR ASTM D-1557.
- FILL PLACEMENT AND REINFORCING SHALL BE MONITORED AND ACCEPTED BY THE TESTING AGENCY. TAKE A MINIMUM OF ONE FIELD DENSITY TEST (ASTN D-1556 OR D 2922) FOR EACH 2,500 SQUARE FEET OF EACH LAYER. THE TESTING AGENCY SHALL RANDOMLY SELECT TEST LOCATIONS.
- FOR INTERIOR SLABS PLACE 6 MIL POLYETHYLENE SHEETING BETWEEN SOIL AND BOTTOM OF SLAB. DO NOT USE ANY SHEETING BELOW EXTERIOR CONCRETE SLABS.
- USE 4" THICK SLABS ON GRADE REINFORCED WITH 4x4 - W2.9 x W2.9 WELDED WIRE REINFORCEMENT SUPPLIED IN FLAT SHEETS ONLY, U.O.N. USE CHAIRS TO SUPPORT WIRE FABRIC IN THE CENTER OF SLAB.
- PROVIDE CRACK CONTROL JOINTS AT 15 FEET MAXIMUM TO LIMIT AREAS BETWEEN JOINTS TO 225 SQ. FT. IN ALL FLOATING SLABS ON GRADE. LOCATE TO CONFORM TO BAY SPACING WHENEVER POSSIBLE, ADD CRACK CONTROL JOINTS AT RE-ENTRANT CORNERS WHICH TEND TO INVITE CRACKS.
- IN SIDEWALKS AND WALKWAYS, LOCATE ISOLATION JOINTS AT 20 FT. O.C. MAXIMUM SCORE AND TOOL BETWEEN ISOLATION JOINTS IN EQUAL BAYS OF 5 FT. OR LESS.
- SEE THE ARCHITECTURAL DRAWINGS FOR SLAB ON GRADE DEPRESSIONS AND OTHER REQUIREMENTS.

TERMITE TREATMENT

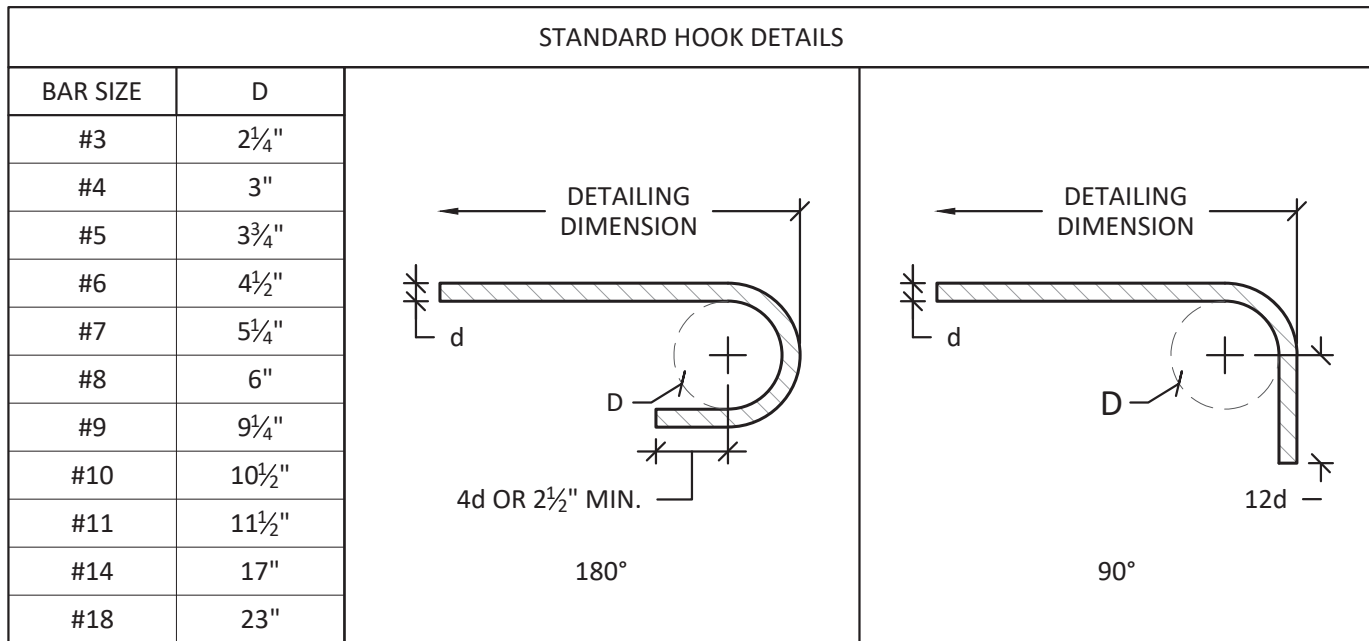
- RETREATMENT IS REQUIRED, IF ANY SOIL AREAS ARE DISTURBED FOR THE INSTALLATION OF TRAPS, ETC. AFTER THE INITIAL SOIL TREATMENT. FBC 1816.1.2
- BOXED AREAS IN CONCRETE FLOORS FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC. SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. FBC 1816.1.3
- MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. FBL 1816.1.4
- CONCRETE OVERPOUR OR MORTAR ACCUMULATED ALONG THE EXTERIOR FOUNDATION PERIMETER SHALL BE REMOVED PRIOR TO EXTERIOR SOIL TREATMENT. FBC 1816.1.5
- SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6
- AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED SHALL BE PROMPTLY RETREATED. FBC 1816.1.6
- ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT. FBC 1816.1.7
- A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. FBC 1816.1.7
- AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING, AND OTHER CELLULOSE CONTAINING MATERIALS. FBC 2303.1.3
- NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED. FBC 2303.1.4
- CONDENSATE AND ROOF DOWNSPOUT SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM THE BUILDING SIDE WALLS. FBC 1503.4.4

COMPONENT & CLADDING LOADS - SLOPED ROOF			
TRIB AREA	PRESSURE		O.H. PRESSURE
ZONE (1)			
10 SQ. FT.	16	-36	-
20 SQ. FT.	16	-36	-
50 SQ. FT.	16	-36	-
100 SQ. FT.	16	-36	-
ZONE (2)			
ROOF - EXTERIOR EDGE			
10 SQ. FT.	16	-42	-
20 SQ. FT.	16	-41	-
50 SQ. FT.	16	-40	-
100 SQ. FT.	16	-39	-
ZONE (2')			
ROOF - EXTERIOR EDGE			
10 SQ. FT.	16	-50	-
20 SQ. FT.	16	-49	-
50 SQ. FT.	16	-48	-
100 SQ. FT.	16	-47	-
ZONE (3)			
ROOF - EXTERIOR CORNER			
10 SQ. FT.	16	-55	-
20 SQ. FT.	16	-50	-
50 SQ. FT.	16	-44	-
100 SQ. FT.	16	-39	-
ZONE (3')			
ROOF - EXTERIOR CORNER			
10 SQ. FT.	16	-78	-
20 SQ. FT.	16	-69	-
50 SQ. FT.	16	-58	-
100 SQ. FT.	16	-50	-
EDGE ZONE (a) = 5'-0"			

COMPONENT & CLADDING LOADS - ATTACHED CANOPY	
TRIB AREA	PRESSURE
UPPER SURFACE	
10 SQ. FT.	-30.1
20 SQ. FT.	-29.0
50 SQ. FT.	-25.8
100 SQ. FT.	-20.5
LOWER SURFACE	
10 SQ. FT.	-21.9
20 SQ. FT.	-21.3
50 SQ. FT.	-19.4
100 SQ. FT.	-16.4
UPPER & LOWER SURFACES	
10 SQ. FT.	20.5
20 SQ. FT.	20.0
50 SQ. FT.	18.7
100 SQ. FT.	16.4

REINFORCED CONCRETE

- COMPLY WITH ACI 301 AND 318.
- PROVIDE STRUCTURAL CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE DESIGN STRENGTH IN 28 DAYS OF:
  - SLAB ON GRADE 3,000 PSI
  - FOUNDATION 4,000 PSI
  - WALLS & SLABS 5,000 PSI
- USE NORMAL WEIGHT CONCRETE FOR ALL STRUCTURAL MEMBERS. U.O.N.
- PROVIDE ASTM A-615 GRADE 60 REINFORCING STEEL. REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE, WITH APPROPRIATE BAR SUPPORTS AND SPACERS. LAP CONTINUOUS REINFORCING 48 BAR Ø. LAP BOTTOM STEEL OVER SUPPORTS AND TOP STEEL AT MID-SPAN, U.O.N. HOOK DISCONTINUOUS ENDS OF ALL TOP BARS AND ALL BARS IN WALLS, U.O.N.
- PROVIDE COVER OVER REINFORCING AS FOLLOWS:
  - CAST AGAINST & EXPOSED TO EARTH/WEATHER 3"
  - EXPOSED TO EARTH/WEATHER
    - #6 THROUGH #18 REBAR 2"
    - #5 REBAR, W31/D31 WIRE OR SMALLER 1½"
    - NOT EXPOSED TO EARTH/WEATHER
      - SLABS, WALLS, JOISTS
        - #14 AND #18 REBAR 1½"
        - #11 REBAR AND SMALLER ¾"
        - BEAMS AND COLUMNS
          - REINF, TIES, STIRRUPS, SPIRALS 1½"
- WHERE SPECIFIED, PROVIDE PLAIN, COLD-DRAWN ELECTRICALLY-WELDED WIRE REINFORCEMENT CONFORMING TO ASTM A-185. SUPPLY IN FLAT SHEETS ONLY. LAP SPLICE ONE CROSS WIRE SPACING PLUS TWO INCHES.
- UTILITIES SHALL NOT PENETRATE BEAMS OR COLUMNS BUT MAY PASS THROUGH SLABS AND WALLS INDIVIDUALLY, U.O.N. FOR OPENINGS 24" LONG OR LESS, CUT REINFORCING AND REPLACE A LONG SIDE OPENING WITH SPLICE BARS OF EQUIVALENT AREA WITH 48 BAR Ø LAP. PREPARE AND SUBMIT SHOP DRAWINGS FOR OPENINGS LONGER THAN 24". FOR RECTANGULAR OPENINGS 12" LONG OR LONGER, ADD (1) #5 x 6" MID DEPTH & DIAGONAL AT ALL 4 CORNERS.
- WHERE REINFORCING STEEL CONGESTION PERMITS, CONDUIT AND PIPES UP TO 1"Ø MAY BE EMBEDDED IN CONCRETE PER ACI 318, SECTION 6.3. SPACE AT 30 O.C. PLACE BETWEEN OUTER LAYERS OF REINFORCING IF CONDUITS ARE SIGNIFICANTLY CONGESTED, ADDITIONAL REINFORCING PERPENDICULAR TO PIPING MAY BE REQUIRED. REQUESTS TO EMBED LARGER PIPES SHOULD BE ACCOMPANIED BY A DETAILED DESCRIPTION AND BE SUBMITTED TO THE ARCHITECT FOR EVALUATION.
- PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI 318, SECTION 6.4. PROVIDE KEYWAYS AND ADEQUATE DOWELS. SUBMIT DRAWINGS SHOWING LOCATION OF CONSTRUCTION JOINTS AND DIRECTION OF POUR FOR REVIEW.
- PROVIDE REINFORCING STEEL PLACED WITH A SET OF STRUCTURAL DRAWINGS FOR FIELD REFERENCE. INSPECT REINFORCING STEEL PLACING FROM STRUCTURAL DRAWINGS.



REQUIRED DEVELOPMENT LENGTHS FOR REBAR (INCH)								
BAR SIZE	3,000 psi		4,000 psi		5,000 psi		6,000 psi	
	TENSION	COMPRESSION	TENSION	COMPRESSION	TENSION	COMPRESSION	TENSION	COMPRESSION
#3	16	8	14	8	13	8	12	8
#4	22	11	19	9	17	9	15	11
#5	27	14	24	12	21	11	19	14
#6	33	16	28	14	25	14	23	16
#7	48	19	42	17	37	16	34	19
#8	55	22	47	19	42	18	39	22
#9	62	25	54	21	48	20	44	20
#10	70	28	60	24	54	23	49	23
#11	77	31	67	27	60	25	55	25

MIN. TENSION EMBEDMENT FOR STANDARD HOOKS (INCH)					
BAR SIZE	3 Ksi	4 Ksi	5 Ksi	6 Ksi	
#3	6	6	6	6	



CONCRETE MASONRY

- CONSTRUCT MASONRY IN ACCORDANCE WITH ACI 530/ASCE 5, "BUILDING CODE REQUIREMENTS FOR CONCRETE M530.1 /ASCE 6, "SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY".
- USE 50% SOLID, NOMINAL 8x8x16, CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. LAY UP UNITS IN RUNNING BOND. SAW CUT UNITS WHICH ARE NOT IN MULTIPLES OF 8". UNITS SHALL BE AT LEAST 8" LONG. BAND CORNERS BY LAPPING ENDS 8" IN SUCCESSIVE VERTICAL COURSES. DESIGN OF WALLS IS BASED ON A F<sub>m</sub> OF 2000 PSI.
- USE TYPE 9 MORTAR IN ACCORDANCE WITH ASTM C270 EXCEPT USE TYPE M MORTAR BELOW GRADE. HEAD AND BED JOINTS SHALL BE ¾" FOR THE THICKNESS OF THE FACE SHELL. WEBS ARE TO BE FULLY MORTARED IN ALL COURSES OF PIERS, COLUMNS AND PILASTERS, IN THE STARTING COURSE AND WHERE AN ADJACENT CELL IS TO BE GROUTED. REMOVE MORTAR PROTRUSIONS EXTENDING ½" OR MORE INTO CELLS TO BE GROUTED.
- USE STANDARD (9 GAGE) HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A-82 IN EVERY OTHER COURSE. OVERLAP DISCONTINUOUS ENDS 6". USE PREFABRICATED CORNERS AND TESTS. USE TRUSS TYPE, EXCEPT USE LADDER TYPE IN WALLS WITH VERTICAL REINFORCING. EXTEND JOINT REINFORCING A MINIMUM OF 4" INTO THE COLUMNS.
- USE FINE GROUT CONFORMING TO ASTM C-476, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI IN 28 DAYS. AGGREGATE TO CONFORM TO ASTM C404 FOR FINE GROUT, WITH SLUMP OF 8" TO 10". GROUT ALL MASONRY CONTAINING REINFORCING, ALL CELLS OF 4 HOUR RATED WALLS AND WHERE INDICATED ON THE DRAWINGS. ALLOW MORTAR TO CURE 24 HOURS PRIOR TO GROUTING. PROVIDE CLEANOUT OPENINGS AT THE BASE OF CELLS CONTAINING REINFORCING STEEL TO CLEAN THE CELL AND TO TIE THE VERTICAL BAR TO THE DOWEL. IN HIGH-LIFT GROUTING, USE 5'-0" (MAXIMUM) LIFTS, WITH ½" HOUR TO 1 HOUR BETWEEN LIFTS. VIBRATE EACH LIFT AND RECONSOLIDATE THE PREVIOUS LIFT.
- USE ASTM A-615 GRADE 60 REINFORCING STEEL. REINFORCE WALLS WHERE INDICATED ON THE DRAWINGS AND AT ALL INTERSECTIONS, EACH SIDE OF OPENINGS AND AT THE ENDS OF WALLS. USE BAR SPACERS AT 10'-0" O.C. WHERE GROUT POUR HEIGHT EXCEEDS 10'-0".
- AT BOND/TIE BEAM CORNERS AND INTERSECTIONS, PLACE (1) #5 X 5'-0" T&B CORNER BAR, WITH 30" LEGS EACH WAY, AT THE EXTERIOR FACE.
- BEAMS NOT SCHEDULED ARE MINIMUM 8"x12" TIE BEAMS WITH (2) #5 BARS TOP AND BOTTOM AND #3 TIES SPACED AT 18" O.C. TYPICAL AND #4 TIES AT 12" O.C. AT ENDS AND INTERSECTIONS, U.O.N. COLUMNS NOT SCHEDULED ARE MINIMUM 8"x12" TIE COLUMNS WITH (4) #5 VERTICAL BARS AND #2 TIES AT 12" O.C. USE 30" LAP SPICES. HOOK ALL BARS AT DISCONTINUOUS ENDS.
- REINFORCED MASONRY WALL CONSTRUCTION SHALL BE INSPECTED BY AN ENGINEER OR ARCHITECT IN ACCORDANCE WITH ACI 530. 1/ASCE 6.
- WHERE ANCHOR BOLTS, WEDGE ANCHORS OR ANCHORS SET IN EPOXY ARE SET IN A MASONRY WALL, FILL CELLS WITH GROUT FOR BOLTED COURSE, ONE COURSE ABOVE AND TWO COURSES BELOW.
- PROVIDE LINTELS OR HEADERS WITH MINIMUM 8" BEARING OVER ALL MASONRY OPENINGS.
- USE PRESSURE-TREATED WOOD FOR WOOD IN CONTACT WITH MASONRY.
- THE STRUCTURE IS SUPPORTED BY BEARING WALLS, U.O.N. ERECT MASONRY PRIOR TO CASTING CONCRETE COLUMNS WITHIN BEARING WALLS OR CASTING BEAMS AND SLABS SUPPORTED BY BEARING WALLS.

CHEMICAL ADHESIVE FOR ANCHOR BOLTS, REINFORCING BOLTS & THREADED BARS

- USE AN EPOXY, ACRYLIC OR POLYESTER RESIN ADHESIVE SYSTEM SUCH AS THE POWERS RAWL POWER-FAST SYSTEM, HILTI HIT HY150, ITW RAMSET/RED HEAD EPCON A7 OR C6 INJECTION SYSTEM, ALLIED FASTENER ALLIED GOLD A-1000, OR ACCEPTED EQUIVALENT. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION.
- CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A ¼"Ø PILOT HOLE FOR EACH ANCHOR. DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- DRILL ½"Ø LARGER Ø HOLE THAN ANCHOR BOLT AND ¾"Ø LARGER HOLE THAN REINFORCING BAR. THOROUGHLY CLEAN HOLE INCLUDING REMOVAL OF DUST PRIOR TO FILLING WITH EPOXY.
- PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.
- THREADED RODS ARE A-36 GALVANIZED STEEL, U.O.N.

EXCAVATION, BACKFILL AND DE-WATERING

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LOGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STRESS AND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT AND OSHA REGULATIONS. DO NOT EXCAVATE WITHIN ONE FOOT OF THE ANGLE OF REPOSE OF ANY SOIL BEARING FOUNDATION UNLESS THE FOUNDATION IS PROPERLY PROTECTED AGAINST SETTLEMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER IN A MANNER THAT DOES NOT INCONVENIENCE OR DAMAGE THE WORK.

EXPANSION ANCHORS

- USE WEDGE-TYPE EXPANSION ANCHORS SUCH AS THE HILTI KWIK BOLT II, ITW RAMSET RED HEAD TRUBOLT WEDGE, POWERS RAWL POWER-STUD, OR ACCEPTED EQUIVALENT FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION.
- CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A ¼"Ø PILOT HOLE FOR EACH ANCHOR. DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.

STRUCTURAL STEEL

- FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE, W/ AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", WITH COMMENTARY, AND ALL OSHA REQUIREMENTS.
- STRUCTURAL STEEL SHAPES SHALL BE FABRICATED FROM THE FOLLOWING MATERIALS:
  - ROLLED W AND WT SHAPES: ASTM A992, GRADE 50.
  - ROLLED M, S, C AND MC SHAPES AND ANGLES: ASTM A36, F<sub>y</sub>=36 KSI.
  - PLATES AND BARS: ASTM A36, F<sub>y</sub>=36 KSI.
  - COLD-FORMED HOLLOW STRUCTURAL SECTIONS (HSS):
  - ROUND SECTIONS: ASTM A500, GRADE C, F<sub>y</sub>=46 KSI.
  - SQUARE AND RECTANGULAR SECTIONS: ASTM A500, GRADE B, F<sub>y</sub>=46 KSI.
  - STEEL PIPE: ASTM A53, TYPE E OR S, GRADE B, F<sub>y</sub>=35 KSI.
- ALL SHOP AND FIELD WELDING SHALL CONFORM TO THE AWS D1.1 STRUCTURAL WELDING CODE BY THE AMERICAN WELDING SOCIETY. USE E70 SERIES WELDING ELECTRODES, U.O.N. WHERE NECESSARY, REMOVE GALVANIZING OR PRIMER PRIOR TO WELDING.
- A325 BOLTS SHALL COMPLY WITH "SPECIFICATION FOR STRUCTURAL JOINTS USING: ASTM A325 OR A490 BOLTS", INCLUDING COMMENTARY.
  - TYP. BOLTS USED IN STRUCTURAL CONNECTIONS FOR THIS PROJECT ARE ¾"Ø.
  - TIGHTEN BEARING-TYPE BOLTS (A-325N) TO THE SNUG TIGHT CONDITION AS FOLLOWS:
    - BOLTS SHALL BE PLACED IN ALL HOLES, WITH WASHERS POSITIONED AS REQUIRED AND NUTS THREADED TO COMPLETE THE ASSEMBLY.
    - COMPACTING THE JOINT TO THE SNUG-TIGHT CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT.
    - THE SNUG-TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH.
    - MORE THAN ONE CYCLE THROUGH THE BOLT PATTERN MAY BE REQUIRED TO ACHIEVE THE SNUG-TIGHTENED JOINT.
    - PROVIDE HARDENED WASHERS CONFORMING TO ASTM F436 AND PLACE UNDER THE PART BEING TURNED.
    - DO NOT REUSE OR RETIGHTEN BOLTS WHICH HAVE BEEN FULLY TIGHTENED.
    - USE ONLY NON-GALVANIZED NUTS AND BOLTS THAT ARE CLEAN, RUST-FREE, AND WELL LUBRICATED. BOLTS AND NUTS SHALL BE WAX DIPPED BY THE BOLT SUPPLIER OR LUBRICATED WITH JOHNSON'S STICK WAX 140.
    - CLEANING AND LUBRICATION OF ASTM F1852 TWIST-OFF-TYPE TENSION-CONTROL BOLTS IS NOT PERMITTED.
    - STORE FASTENER COMPONENTS IN SEALED CONTAINERS UNTIL READY FOR USE. RESEAL OPEN CONTAINERS TO PREVENT CONTAMINATION BY MOISTURE OR OTHER DELETERIOUS SUBSTANCES. STORE CLOSED CONTAINERS FROM DIRT AND MOISTURE IN A PROTECTIVE SHELTER. TAKE FROM PROTECTIVE STORAGE ONLY AS MANY FASTENER COMPONENTS AS ARE ANTICIPATED TO BE INSTALLED DURING THE WORK SHIFT.
    - FASTENER COMPONENTS THAT ARE NOT INCORPORATED INTO THE WORK SHALL BE RETURNED TO PROTECTIVE STORAGE AT THE END OF THE WORK SHIFT.
    - FASTENERS FROM OPEN CONTAINERS AND FASTENERS THAT ACCUMULATE RUST OR DIRT SHALL NOT BE USED AND SHALL BE IMMEDIATELY AND PERMANENTLY REMOVED FROM THE PROJECT SITE.
    - USE A-307 BOLTS FOR ALL ERECTION BOLTS AND BOLTS LESS THAN ¾"Ø, U.O.N.
    - ANCHOR RODS SHALL BE ASTM F1554 GRADE 55 WITH SUPPLEMENTARY
- ANCHOR RODS - UNLESS INDICATED OTHERWISE IN THE COLUMN SCHEDULE OR ON THE DRAWINGS, ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 55 AND THE SIZE SHALL BE ¾"Ø AND SHALL BE EMBEDDED INTO THE CONCRETE FOUNDATION A DISTANCE OF 1'-0" WITH A HEAVY HEX NUT AT THE EMBEDDED END. STRIKE BOLT THREADS AT THE EMBEDDED END TWO PLACES BELOW THE NUT.
- SETTING BASE AND BEARING PLATES:
  - CLEAN CONCRETE AND MASONRY BEARING SURFACE OF BOND-REDUCING MATERIALS AND CLEAN BOTTOM OF BASE AND BEARING PLATE.
  - SET BASE OR BEARING PLATE ON WEDGE OR OTHER ADJUSTING DEVICES.
  - TIGHTEN ANCHOR RODS AFTER STRUCTURAL STEEL FRAME HAS BEEN PLUMBED. DO NOT REMOVE WEDGES OR SHIMS BUT, IF PROTRUDING, CUT OFF FLUSH WITH EDGE OF BASE OR BEARING PLATE PRIOR TO PACKING WITH GROUT.
  - PACK OR POUR NON-SHRINK GROUT SOLIDLY BETWEEN BEARING SURFACE AND BASE OR BEARING PLATE. ENSURE THAT NO VOIDS REMAIN. FINISH EXPOSED SURFACES, PROTECT GROUT AND ALLOW TO CURE.
  - FOR PROPRIETARY GROUT MATERIALS, COMPLY WITH MANUFACTURER'S INSTRUCTIONS.
  - BASE PLATES MUST BE GROUTED A MINIMUM OF 72 HOURS PRIOR TO PLACING CONCRETE SLABS ON SUPPORTING STEEL STRUCTURE.
- CUT, DRILL, OR PUNCH HOLES PERPENDICULAR TO METAL SURFACES. REAM HOLES THAT MUST BE ENLARGED TO ADMIT BOLTS AS PERMITTED BY ARCHITECT. DO NOT ENLARGE UNFAIR HOLES BY BURNING OR USING DRIFT PINS.
- DO NOT SPLICE STRUCTURAL STEEL MEMBERS EXCEPT WHERE INDICATED ON THE DRAWINGS.
- SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR MISCELLANEOUS STEEL NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- REFER TO ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR PAINTING AND FIREPROOFING OF STRUCTURAL STEEL. DO NOT PAINT STEEL SURFACES IN CONTACT WITH CONCRETE OR FIREPROOFING.

WOOD FRAMING & SHEATHING

- WOOD CONSTRUCTION SHALL COMPLY WITH AF&PA NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND CHAPTER 23 OF FBC.
- MANUFACTURED LUMBER, S4S AND GRADE-STAMPED, TO COMPLY WITH PS20 AND APPLICABLE GRADING RULES OF INSPECTION AGENCIES CERTIFIED BY ALSC'S BOARD OF REVIEW.
- PROVIDE SEASONED LUMBER WITH 19% MOISTURE CONTENT AT TIME OF DRESSING AND SHIPMENT, FOR SIZES 2" OR LESS IN THICKNESS.
- COMPLY WITH "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES".
- ALL STRUCTURAL LUMBER TO BE MIN. SOUTHERN YELLOW PINE NO. 2 S4S, GRADE-STAMPED. ALL OTHER LUMBER PER ARCHITECTURAL SPECIFICATIONS. NON-LOAD BEARING WOOD FRAME WALLS MAY BE NO. 2 SPRUCE PINE FIR.
- USE LUMBER WITH MINIMUM F<sub>b</sub>=1100 PSI FOR 2x4, 1000 PSI FOR 2x6, 925 PSI FOR 2x8, 800 PSI FOR 2x10 AND, 750 PSI FOR 2x12 FOR SINGLE/REPETITIVE USE AND A MODULES OF ELASTICITY, "E" OF 1,400,000 PSI (FOR WALLS AND BEAMS). PARALLEL STRAND LUMBER SHALL HAVE MINIMUM F<sub>b</sub>=2900 PSI, E=2,000,000 PSI & F<sub>v</sub>=290 PSI.
- DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS, U.O.N.
- USE MANUFACTURERS REQUIRED SIZE AND NUMBER OF NAILS OR BOLTS FOR ANCHOR TIE DOWNS, HURRICANE CLIPS AND ALL CONNECTORS U.O.N.
- SECURELY ATTACH CARPENTRY WORK TO SUBSTRATES AND SUPPORTING MEMBERS USING FASTENERS OF SIZE THAT WILL NOT PENETRATE MEMBERS WHERE THE OPPOSITE SIDE WILL BE EXPOSED TO VIEW OR RECEIVE FINISH MATERIALS.
- GYPSUM WALL SHEATHING AT EXTERIOR WALLS, LOAD BEARING WALLS AND INTERIOR WALLS INTERSECTING WALLS TO BE SECURED TO STUDS WITH DRYWALL NAILS AT 12" O.C. @ EACH STUD.
- CONTRACTOR TO VERIFY THAT HURRICANE CLIPS/TIE DOWNS SHOWN WILL RESIST WIND UPLIFT FROM ROOF TRUSSES. IF UPLIFT VALUE FROM ROOF TRUSS MANUFACTURER EXCEEDS CAPACITY OF THE HURRICANE CLIPS/TIE DOWN, THE CONTRACTOR SHALL PROVIDE A CONNECTOR TO SAFELY RESIST THE UPLIFT LOADS. THE CONTRACTOR CAN SIZE HURRICANE CLIPS BY USING THE TRUSS DRAWINGS IN COMBINATION WITH THE HC/TIE DOWN CHART.
- ANCHOR BOLTS TO BE ½"Øx10" LONG W/ 2" SQ. WASHERS SPACED @ 24" O.C. U.O.N. FIRST ANCHOR BOLT IS TO BE PLACED MAX 10" FROM EACH CORNER.
- PROVIDE THREADED ROD TIE-DOWN SYSTEM AT LOCATIONS NOTED ON PLANS.
- THE ENGINEER SHOULD BE NOTIFIED OF ANY DEVIATIONS FROM THE PLANS.
- CEILING TO BE A MINIMUM OF ½" GYPSUM WITH 5D COOLER NAILS OR GWB-54 1½" NAILS INSTALLED AT 10" O.C. AND 7" O.C. ALONG EDGES.

STEEL JOISTS

- MANUFACTURE AND ERECT STEEL JOISTS AND BRIDGING IN ACCORDANCE WITH SPECIFICATION SECTION 052100, SPECIFICATIONS OF THE STEEL JOIST INSTITUTE, AND ALL OSHA REQUIREMENTS. MANUFACTURE JOISTS WITH SJI RECOMMENDED APPROXIMATE CAMBER.
- REFER TO SPECIFICATION SECTION 052100 FOR SUBMITTAL REQUIREMENTS, INCLUDING THE LETTER SIGNED AND SEALED BY THE FABRICATOR'S ENGINEER ACCEPTING RESPONSIBILITY FOR DESIGNING ALL OF THE JOISTS ON THE PROJECT.
- DESIGN JOISTS FOR WIND NET UPLIFT AS SHOWN ON THE DRAWINGS. AN ALLOWABLE STRESS INCREASE FOR LOAD COMBINATIONS INCLUDING WIND IS PROHIBITED.
- PROVIDE MIN. BEARING PER SJI REQUIREMENTS AND CONNECT EACH SIDE OF JOIST TO SUPPORT STEEL WITH ⅝"x2" FILLET WELDS FOR K-SERIES AND 1"x3" FILLET WELDS FOR LH- AND DLH-SERIES. COMPLY WITH ALL OSHA REQUIREMENTS. FOR JOISTS 40'-0" OR LONGER SUPPORTED BY STEEL FRAMING, FASTEN JOISTS WITH TWO ¾"Ø A307 BOLTS FOR K-SERIES AND TWO ¾" A325N BOLTS FOR LH- AND DLH-SERIES. FIELD BOLT JOISTS AT COLUMN LINES IF STRUCTURAL STEEL IS NOT FRAMED IN TWO DIRECTIONS. IF SLOTTED HOLES ARE USED, SLOT JOIST SEAT, NOT SUPPORTING STEEL.
- BRACE ALL JOISTS WITH STEEL ANGLE CROSS BRIDGING SPACED PER SJI AND AS SHOWN ON THE DRAWINGS. PROVIDE THE FOLLOWING SIZES:

BRACING SIZE	MAX. JOIST SPACING
L1x1x¼	60"
L1½x1½x¼	75"

WELD BRIDGING TO THE TOP AND BOTTOM OF JOISTS AND BEAMS, AT INTERSECTIONS, AND TO ALL STRUCTURAL MEMBERS PARALLEL TO JOISTS. FOR JOISTS SPANNING 40'-0" OR MORE, THE CENTER ROW OF BRIDGING SHALL BE BOLTED. HORIZONTAL BRIDGING WILL NOT BE ACCEPTED IN LIEU OF DIAGONAL BRIDGING. FOR JOISTS SUBJECTED TO WIND UPLIFT, PROVIDE HORIZONTAL BOTTOM CHORD BRIDGING AT THE FIRST INTERIOR PANEL POINT IN ADDITION TO ALL OTHER BRIDGING.
- SUSPEND CEILING GRID MAY BE HUNG ANYWHERE ALONG JOIST BOTTOM CHORD. DESIGN SUPERIMPOSED DEAD LOAD WHICH IS HUNG AS A CONCENTRATED LOAD IS LIMITED TO PANEL POINT LOCATIONS AND MAXIMUM 100 POUNDS.

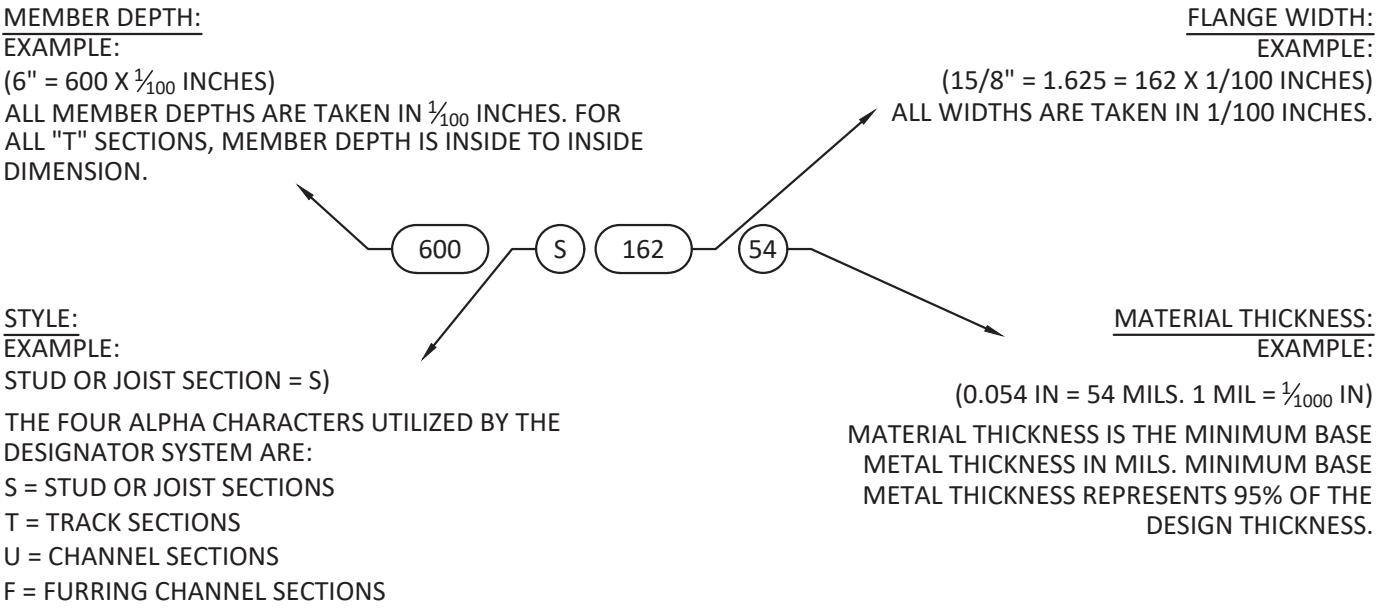
STEEL ROOF DECK

- MANUFACTURE AND INSTALL STEEL ROOF DECK IN ACCORDANCE WITH SPECIFICATION SECTION 053100 AND SPECIFICATIONS OF THE STEEL DECK INSTITUTE.
- MANUFACTURE STEEL SHEETS CONFORMING TO ASTM A653, WITH A MINIMUM YIELD POINT OF 50KSI AND A G90 PROTECTIVE ZINC COATING. MINIMUM DECK PROPERTIES ARE AS FOLLOWS:

DEPTH	GAGE	Sp (in <sup>3</sup> )	Sn (in <sup>3</sup> )
1½"	20	0.234	0.247
- FASTEN DECK TO ALL SUPPORTS WITH HILTI X-ENP 19 PINS OR ⅜" DIAMETER PUDDLE WELDS. FASTENER PATTERN SHALL BE 36/7 FOR 1½" DECK. FASTEN DECK TO END SUPPORT AT EACH RIB AND TO EDGE SUPPORT AT 6" O.C. MAX. FASTEN SIDELAPS WITH #10 TEK SCREWS @ 18" O.C. MAX.
- ERECT STEEL DECK CLOSURES AND OTHER LIGHT GAGE MATERIAL REQUIRED TO PRODUCE A COMPLETED INSTALLATION.
- MANUFACTURE AND INSTALL STEEL DECK FOR A MINIMUM TWO SPAN CONDITION. ONE SPAN CONDITIONS ARE PROHIBITED EXCEPT WHERE SPECIFICALLY SHOWN ON THE DRAWINGS.
- DO NOT HANG CEILING, DUCT, LIGHT FIXTURES, EQUIPMENT, OR OTHER ITEMS FROM ROOF DECK.

LIGHT GAGE STEEL FRAMING (LTGFRM)

- FABRICATE AND ERECT EXTERIOR STUD CONSTRUCTION IN ACCORDANCE WITH THE GENERAL NOTES AND SPECIFICATION SECTION 05400 "COLD-FORMED METAL FRAMING".
- LIGHT GAGE STEEL FRAMING DETAILS SHOWN ON CONTRACT DOCUMENTS REPRESENT A MINIMUM DESIGN INTENT TO BE FOLLOWED. CONNECTIONS NOT DETAILED IN CONTRACT DOCUMENTS SHALL BE DESIGNED AND DETAILED BY FABRICATOR ACCORDING TO SPECIFICATIONS AND REQUIREMENTS HEREIN. MINIMUM GAGE OF MEMBERS IS 18 GAGE, BUT NOT LESS THAN THAT SHOWN ON THE PLANS AND DETAILS.
- SUBMIT COMPLETE SHOP DRAWINGS AND CALCULATIONS SHOWING METHOD OF FABRICATION, ERECTION PROCEDURES, ATTACHMENT OF THE SYSTEM TO THE BUILDING, JOINTS, CONNECTIONS AND FRAMING. CALCULATIONS AND SHOP DRAWINGS SHALL BE PREPARED, SIGNED AND SEALED BY A DELEGATED ENGINEER. SEE NOTES "SHOP DRAWINGS AND OTHER SUBMITTALS". CALCULATIONS ARE SUBMITTED FOR RECORD ONLY.
- USE GALVANIZED STEEL "C" STUDS, TRACKS, ANGLES AND STRAPS AS SHOWN ON DRAWINGS. ALL TRACKS TO BE SAME GAGE AS STUDS WITH MINIMUM OF 1½" LEG.
- MAXIMUM SPACING OF LATERAL BRIDGING FOR LTG FRM STUDS SHALL BE 5'-0" FOR SPANS GREATER THAN TEN (10) FEET AND MIDSPAN FOR SHORTER SPANS. LATERAL BRIDGING SHALL ALSO BE PROVIDED AT FREE ENDS OF CANTILEVERED PARAPETS AND NEAR THE SUPPORTS OF CONTINUOUS SPANS.
- LTG FRM CONNECTIONS TO STRUCTURAL FRAMING SHALL BE CAPABLE OF WITHSTANDING A MINIMUM 250 POUNDS FORCE IN ANY DIRECTION, BUT NOT LESS THAN THAT REQUIRED BY CALCULATIONS. CONNECT LTG FRM TO STRUCTURAL FRAME SO AS TO MINIMIZE INTRODUCTION OF FLEXURAL AND TORSIONAL FORCES IN STRUCTURAL MEMBERS. PROVIDE STRUTS, KNEE BRACING, ETC., TO STABILIZE LTG FRM FRAMING AS REQUIRED.
- DOOR AND WINDOW SILLS, HEADERS, AND JAMBS SHALL BE DESIGNED TO RESIST WIND FORCES ON TRIBUTARY WINDOWS AND DOORS AND TO TRANSMIT THESE FORCES TO THE PRIMARY STRUCTURAL FRAME. AS A MINIMUM, AT OPENINGS PROVIDE DOUBLE SILLS, HEADERS AND JAMBS.
- SCREWS, WHERE REQUIRED, SHALL MEET THE MINIMUM REQUIREMENTS OF SAE J-429 GRADE 5 AND IFI-105. SCREWS SHALL HAVE A PROTECTIVE COATING EQUIVALENT TO CADMIUM OR ZINC PLATING, ASTM 8766.
- THE FOLLOWING ARE MINIMUM FASTENER REQUIREMENTS:
  - LTG FRM TO LTG FRM:
    - USE SELF-TAPPING/DRILLING SCREWS, NO. 10-16 FOR 18 GA AND NO. 12-14 FOR 16 GA LTG FRM. TWO SCREWS PER CONNECTION. ONE SCREW EACH FLANGE FOR STUD TO TRACK CONNECTIONS.
  - LTG FRM TO CONCRETE AND STRUCTURAL STEEL:
    - 3⅝" TRACK - 1 PIN AT 24" O.C. STAGGERED
    - 6" TRACK - 2 PINS AT 24" O.C. AT STUDS
- SCREWS, WHERE REQUIRED, SHALL MEET THE MINIMUM REQUIREMENTS OF SAE J-429 GRADE 5 AND IFI-105. SCREWS SHALL HAVE A PROTECTIVE COATING EQUIVALENT TO CADMIUM OR ZINC PLATING, ASTM 8766.
- THE FIELD CUTTING OF LTG FRM FRAMING MEMBERS SHALL BE BY SAW OR SHEAR. TORCH CUTTING IS NOT PERMITTED.
- SPLICING OF FRAMING COMPONENTS, OTHER THAN THE CONTINUOUS TRACK AT THE TOP AND BOTTOM OF WALLS, IS NOT PERMITTED, U.O.N. SPLICING OF TRACK USED IN THE CONSTRUCTION OF THE JAMB, HEAD OR SILL ASSEMBLIES OF FRAMED WALL OPENINGS IS NOT PERMITTED, WHERE SPLICING OF TRACK IS NECESSARY BETWEEN STUD SPACING, A SECTION OF STUD SHALL BE PLACED IN THE ADJOINING TRACKS ACROSS THE JOINT AND FASTENED TO THE FLANGES AT BOTH SIDES OF THE WALL.



STYLE: EXAMPLE: STUD OR JOIST SECTION = S) THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE: S = STUD OR JOIST SECTIONS T = TRACK SECTIONS U = CHANNEL SECTIONS F = FURRING CHANNEL SECTIONS

THICKNESS- STEEL COMPONENTS				DESIGN STIFFENING LIP LENGTH		
MINIMUM THICKNESS (MILS)	DESIGN THICKNESS (MILS)	INSIDE CORNER RADIUS (IN)	REFERENCE ONLY GAUGE NO.	SECTION	FLANGE WIDTH (IN)	DESIGN STIFFENING LIP LENGTH (IN)
18	0.0188	0.0843	25	S125	1.5"	0.162
27	0.0283	0.0796	22	S137	1.375"	0.375
30	0.0312	0.0781	20-DRYWALL	S162	1.625"	0.500
33	0.0345	0.0764	20-STRUCT.	S200	2"	0.625
43	0.0451	0.0712	18	S250	2.5"	0.625
54	0.0566	0.0849	16			
68	0.0713	0.1068	14			
97	0.1017	0.1525	12			

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Primus V. Mtenga

FLORIDA

PROFESSIONAL ENGINEER

NO. 46667

DATE

2025.03.20

TIME

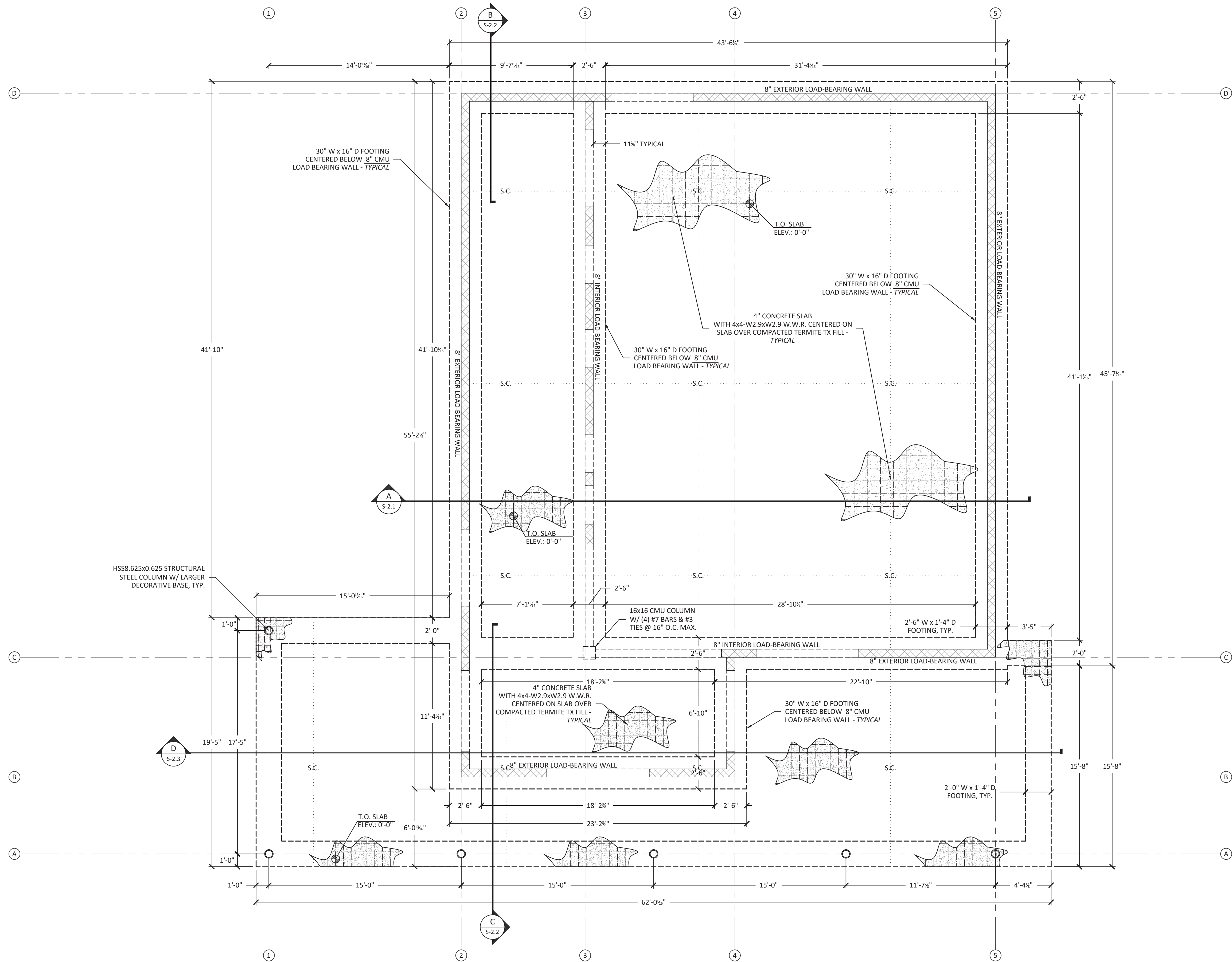
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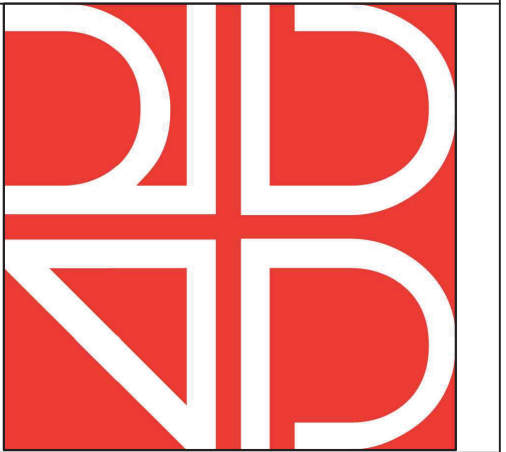
S-0.2

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**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"



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FOUNDATION PLAN

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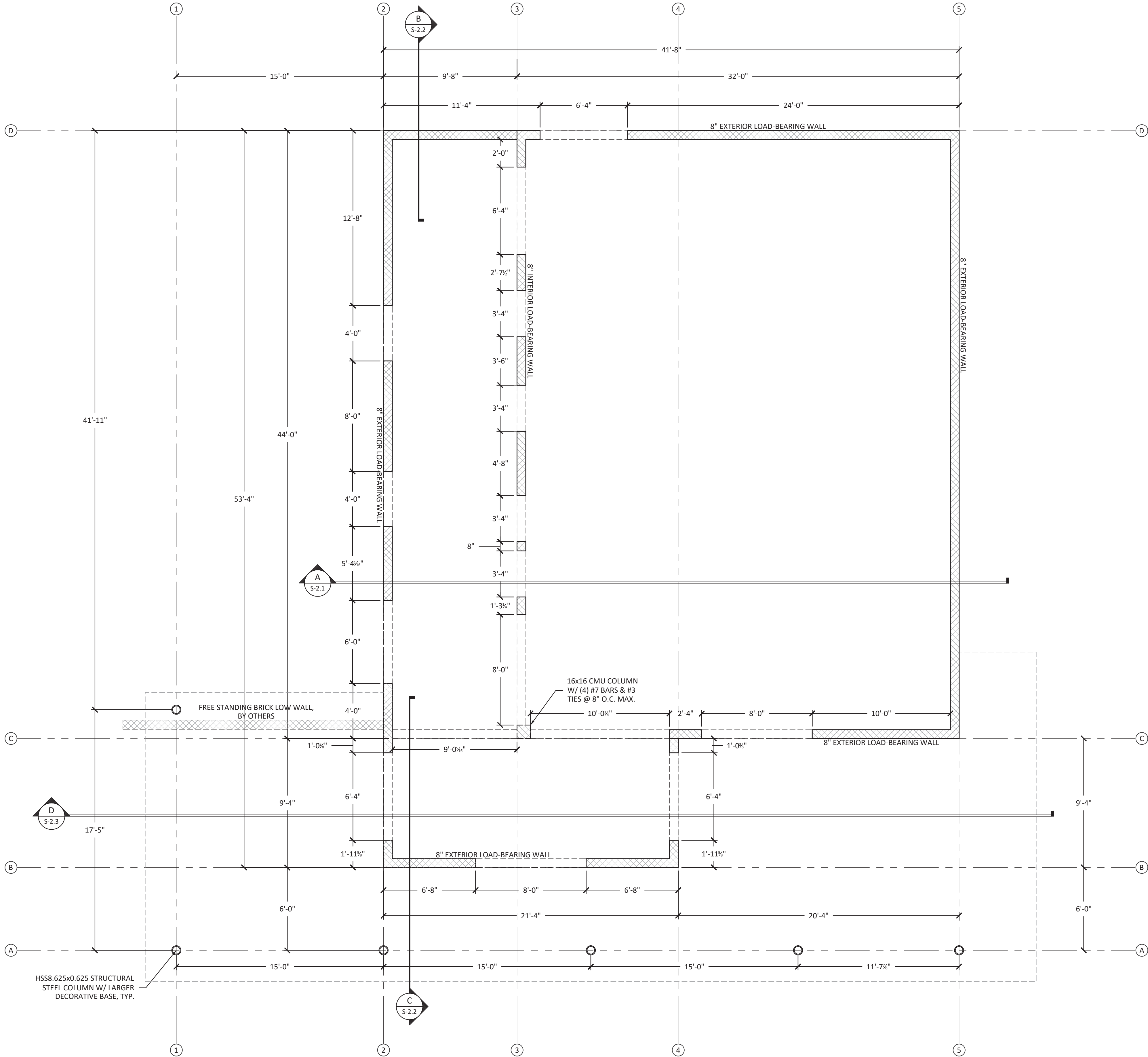
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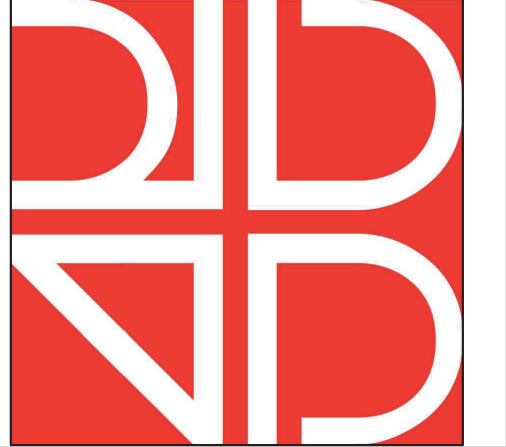
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**S-1.1**





 **WALL LAYOUT PLAN**  
SCALE: 1/4" = 1'-0"



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FIRST FLOOR FRAMING PLAN

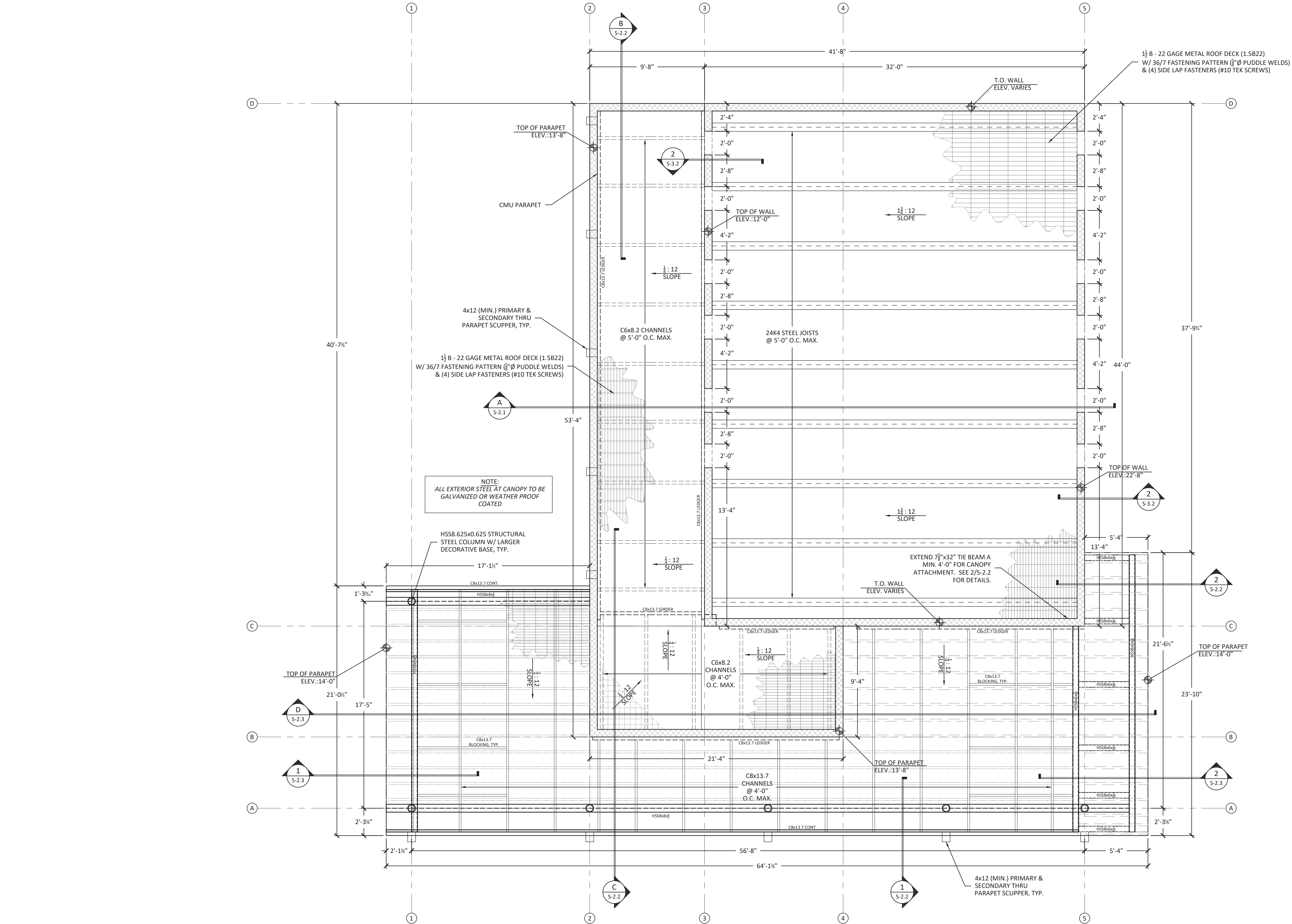
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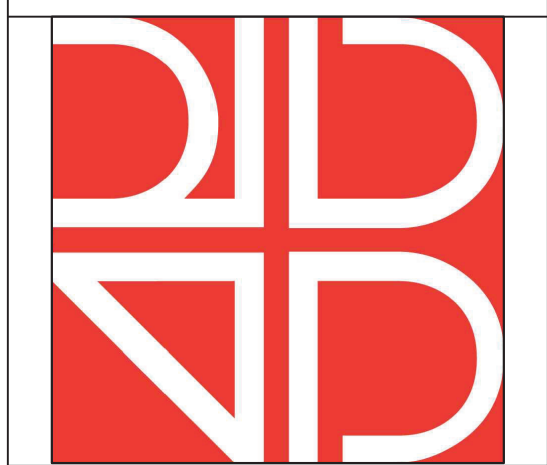
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**ROOF FRAMING PLAN**  
SCALE: 1/4" = 1'-0"



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**ROOF FRAMING PLAN**

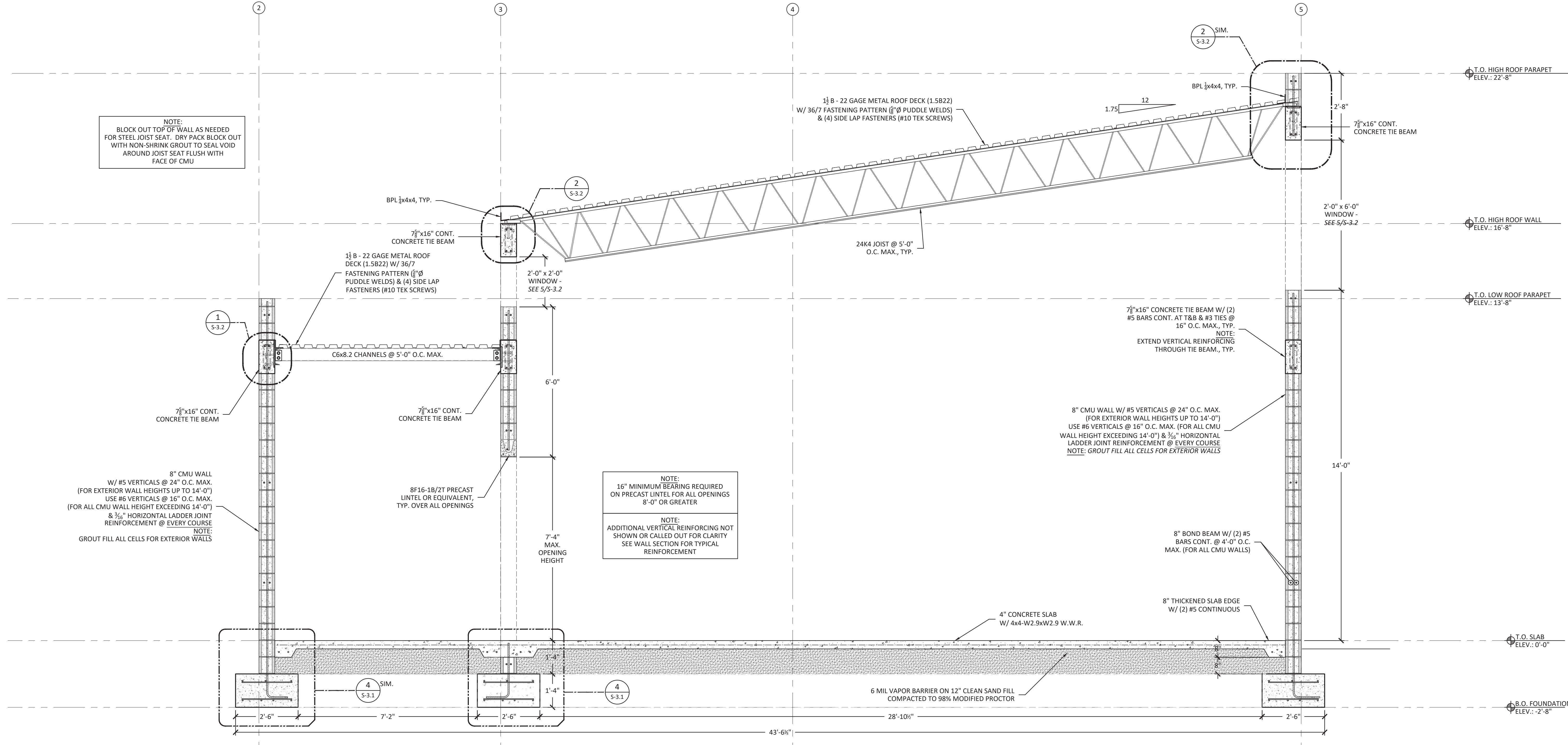
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**A**  
S-2.1 WALL SECTION  
SCALE: 1/2" = 1'-0"

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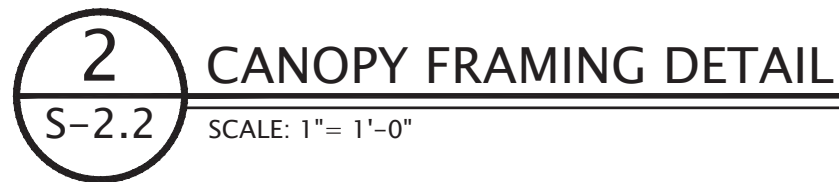
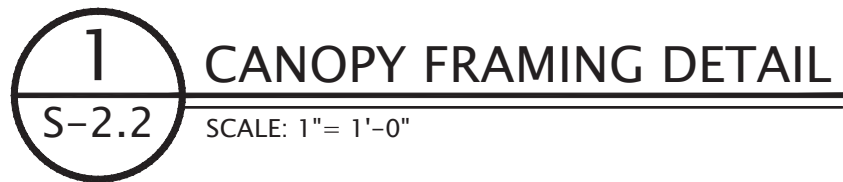
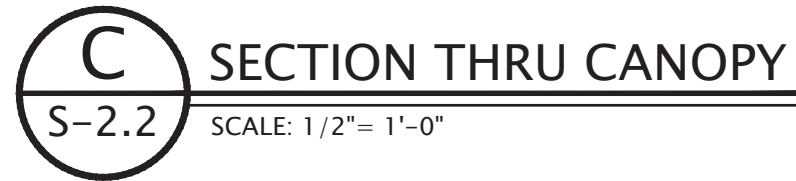
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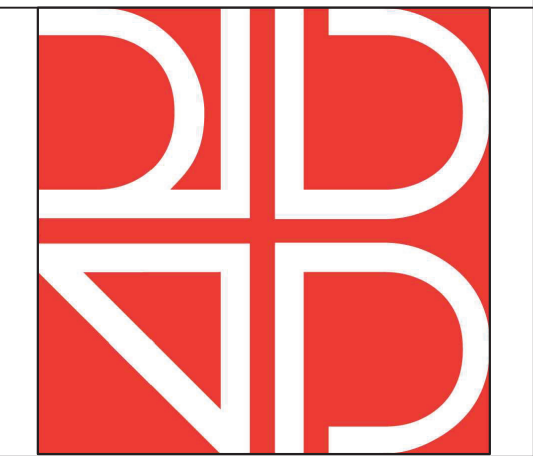
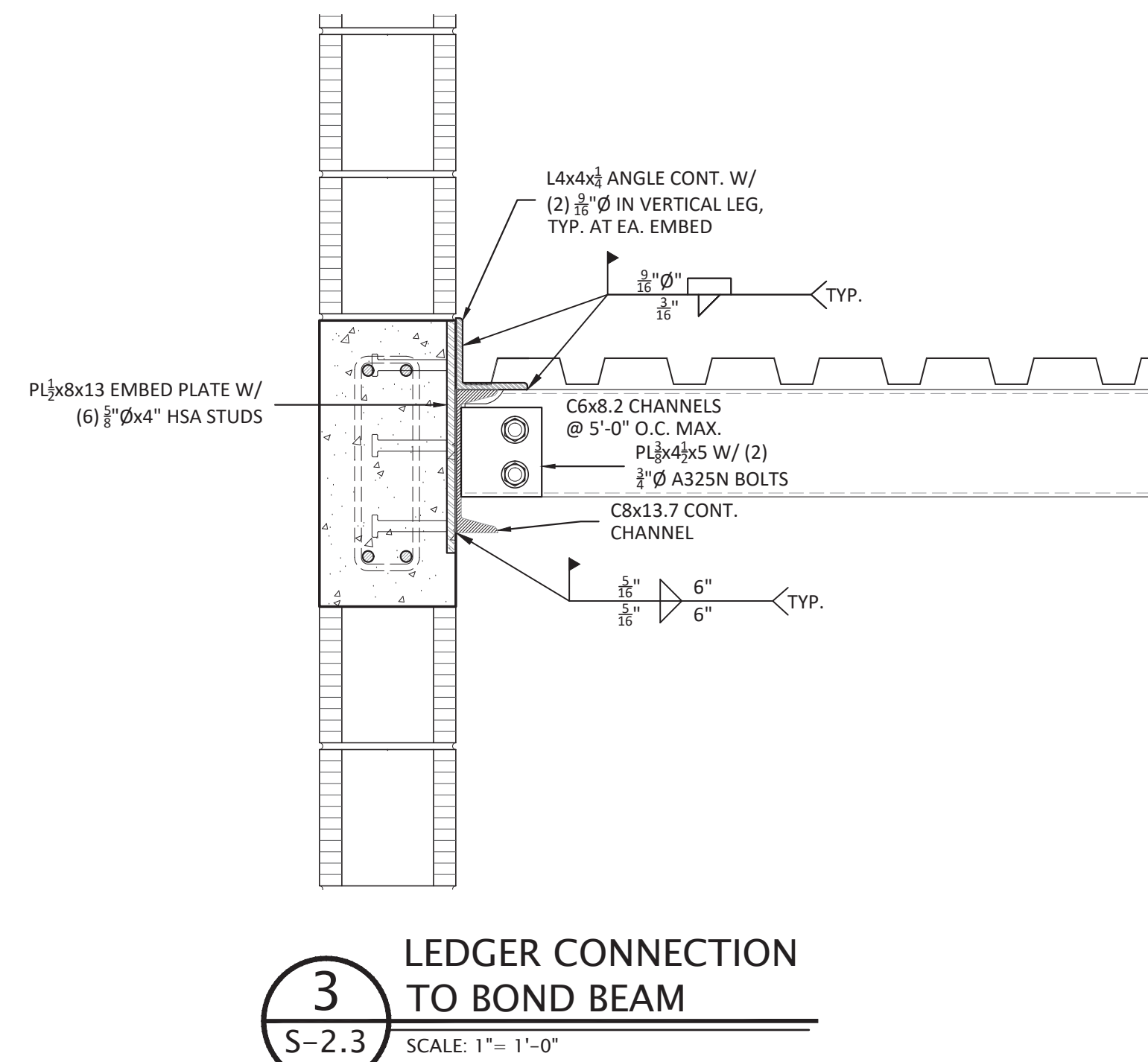
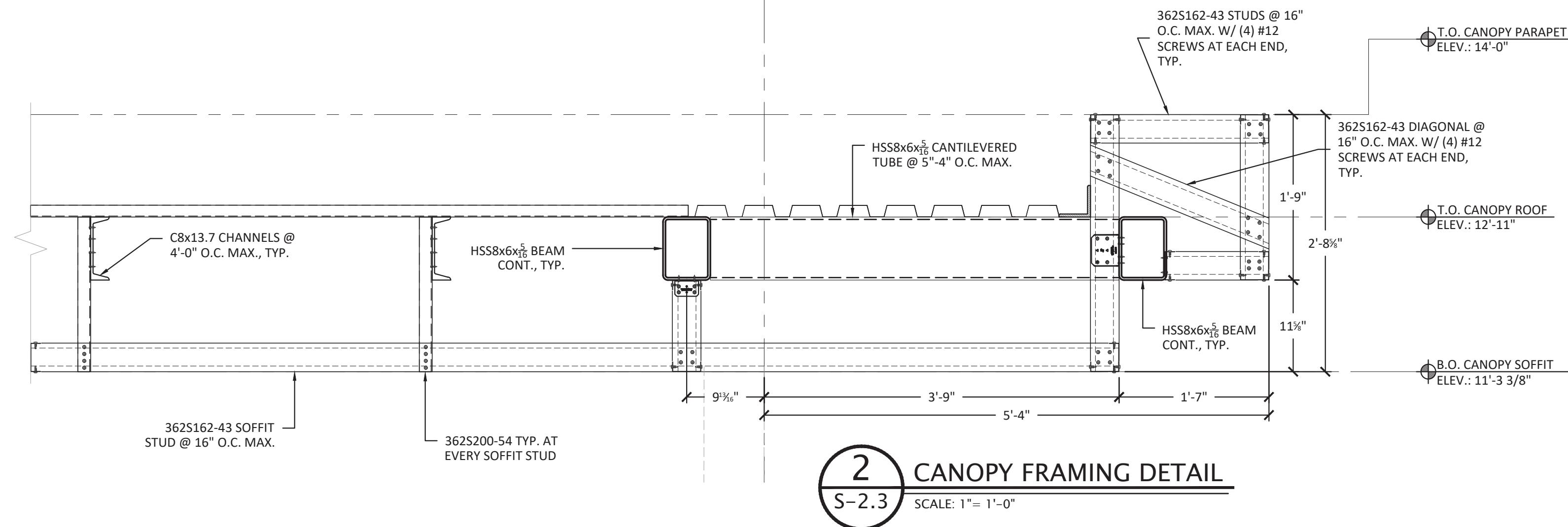
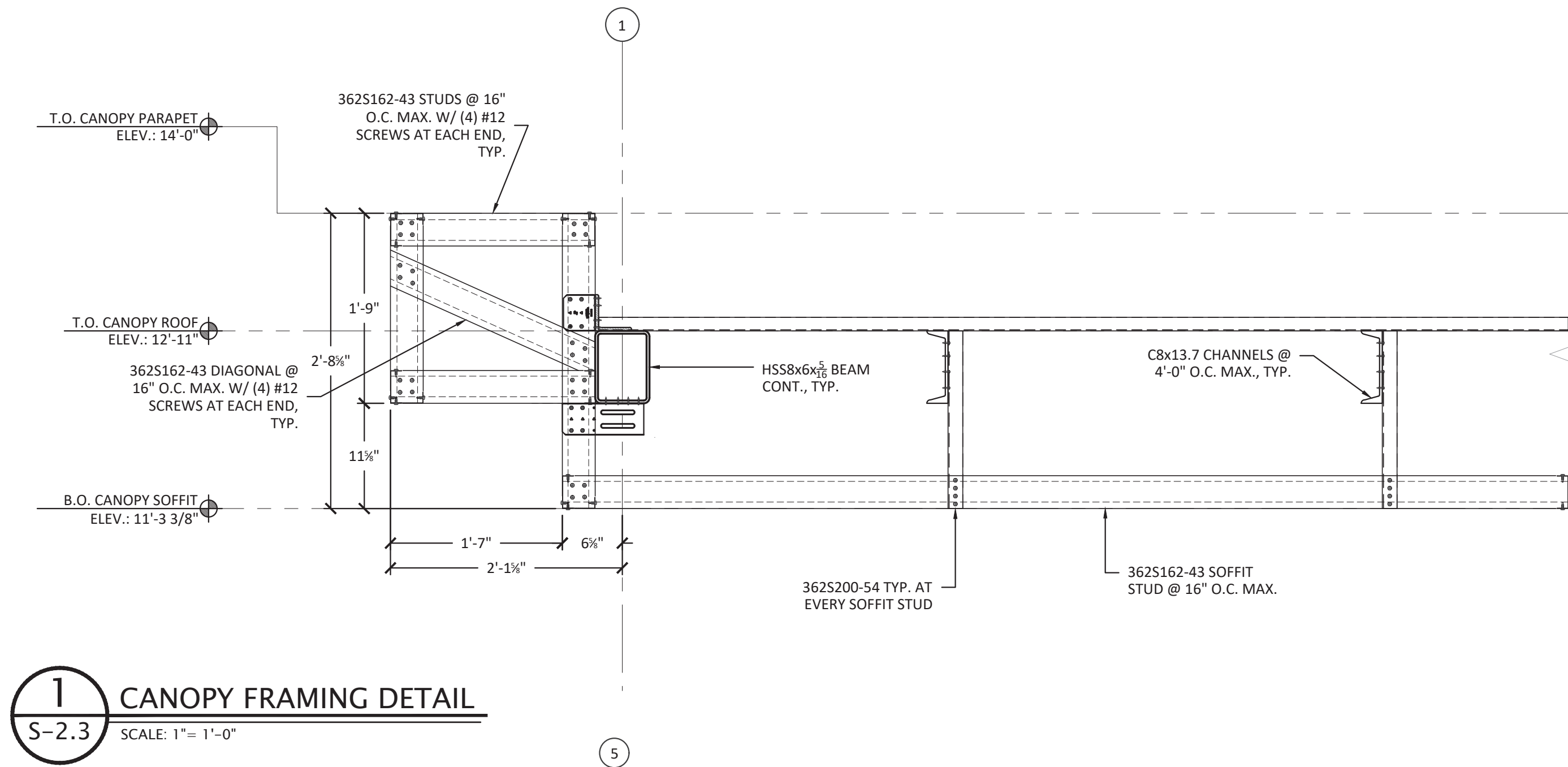
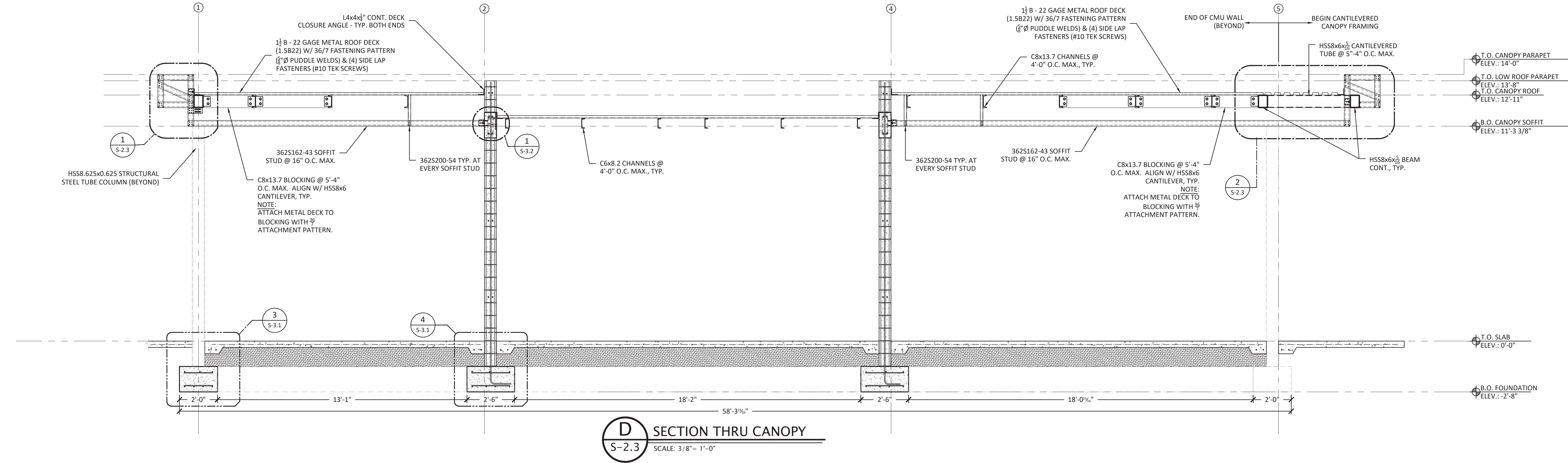
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## S-2.2







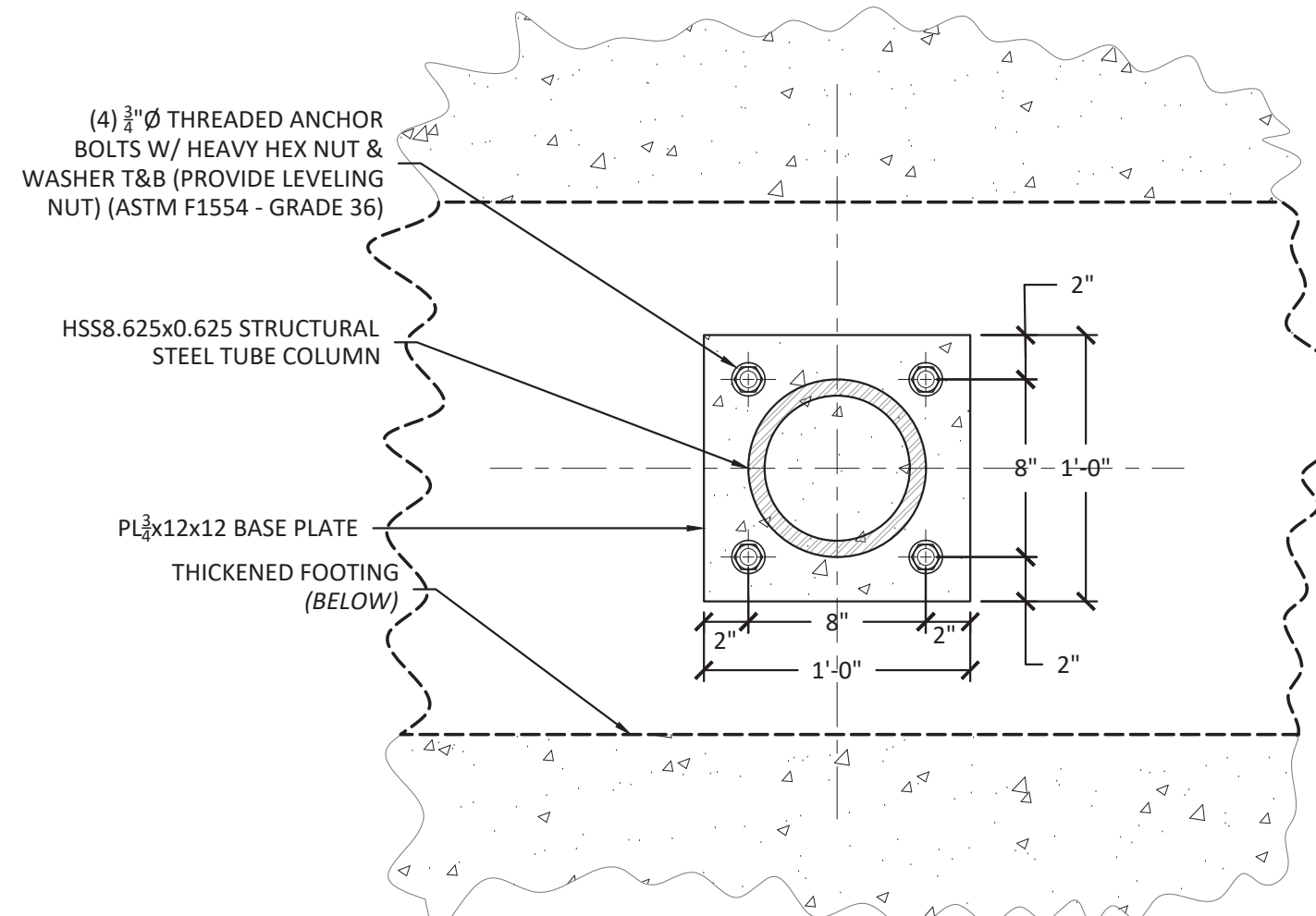
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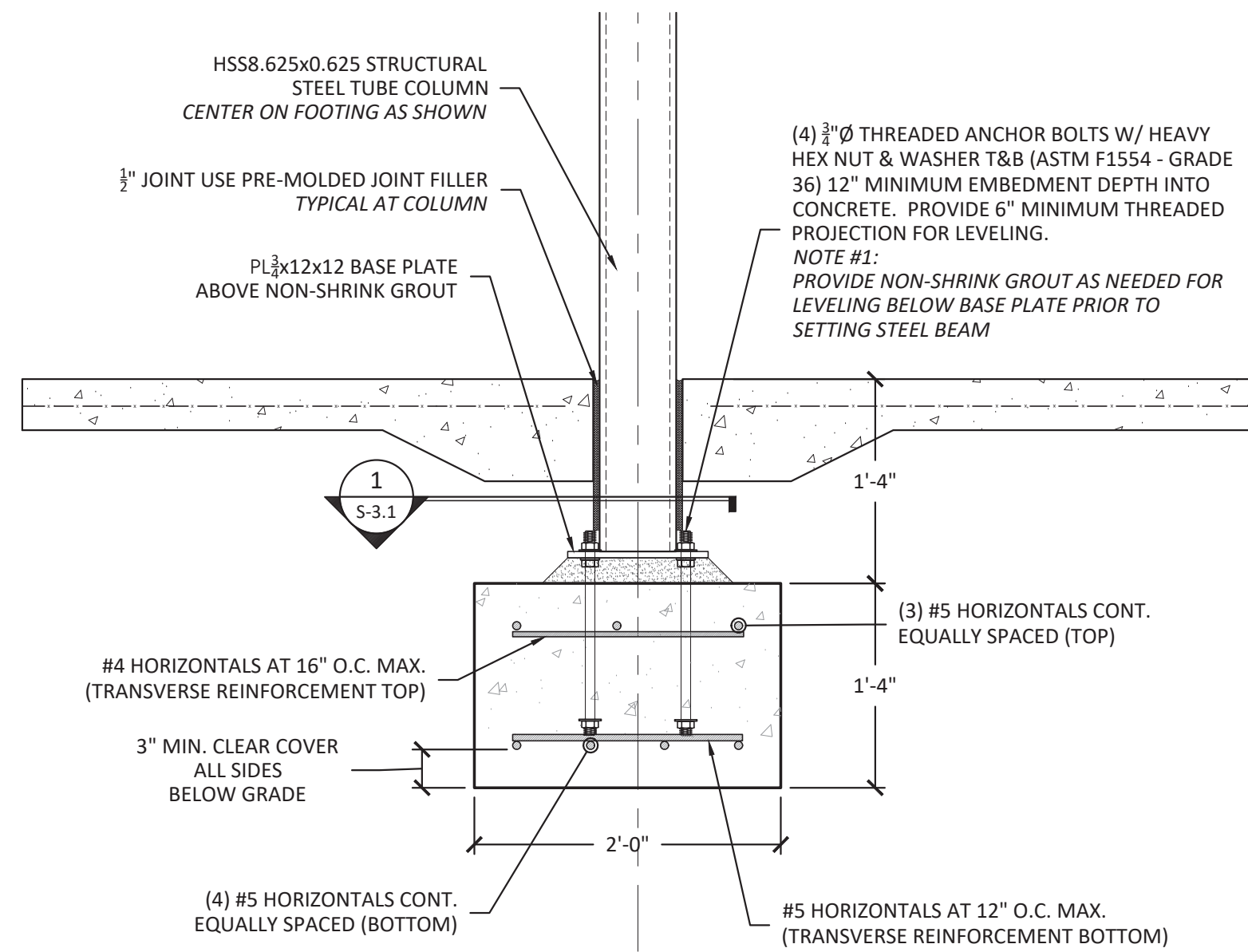
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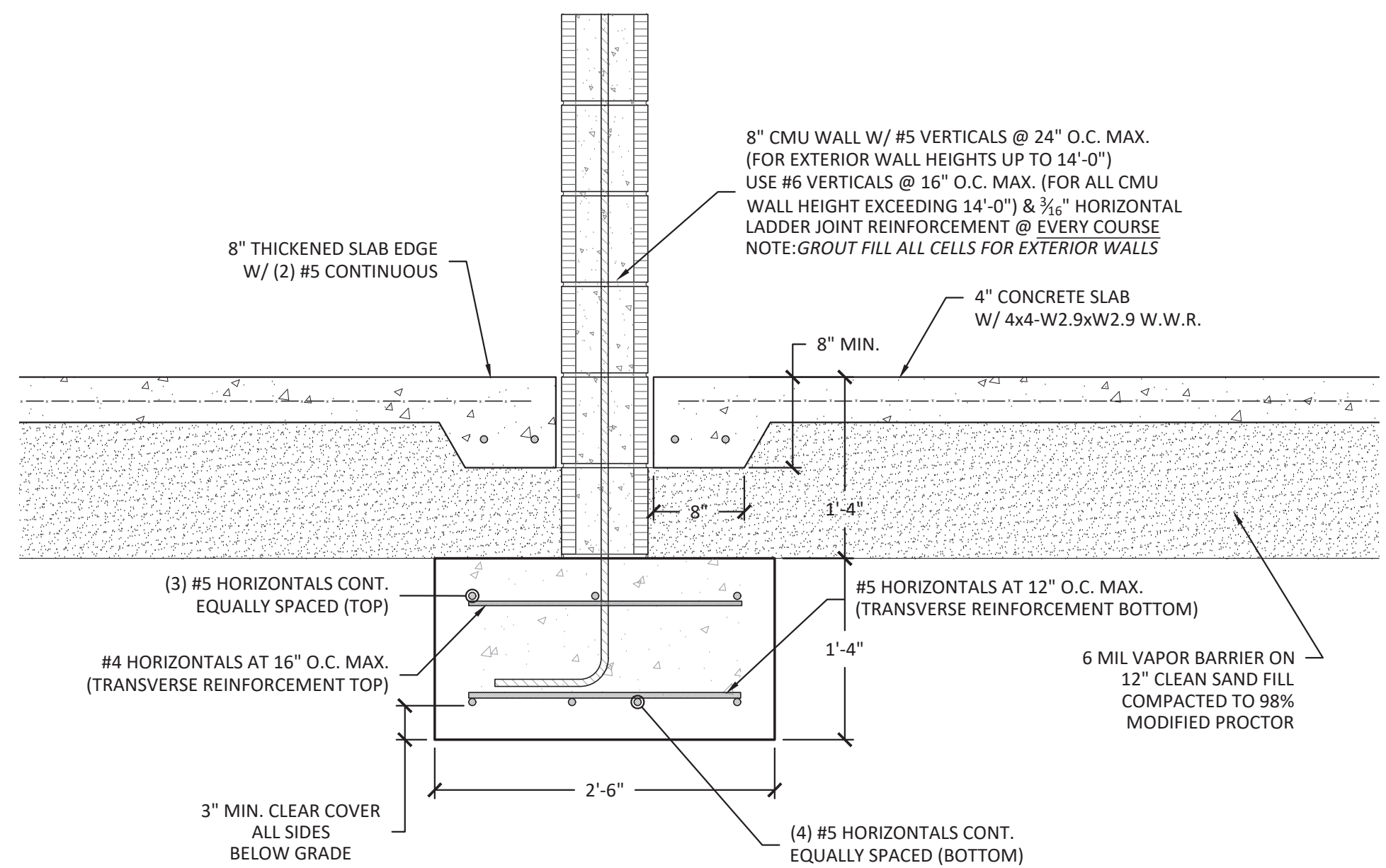




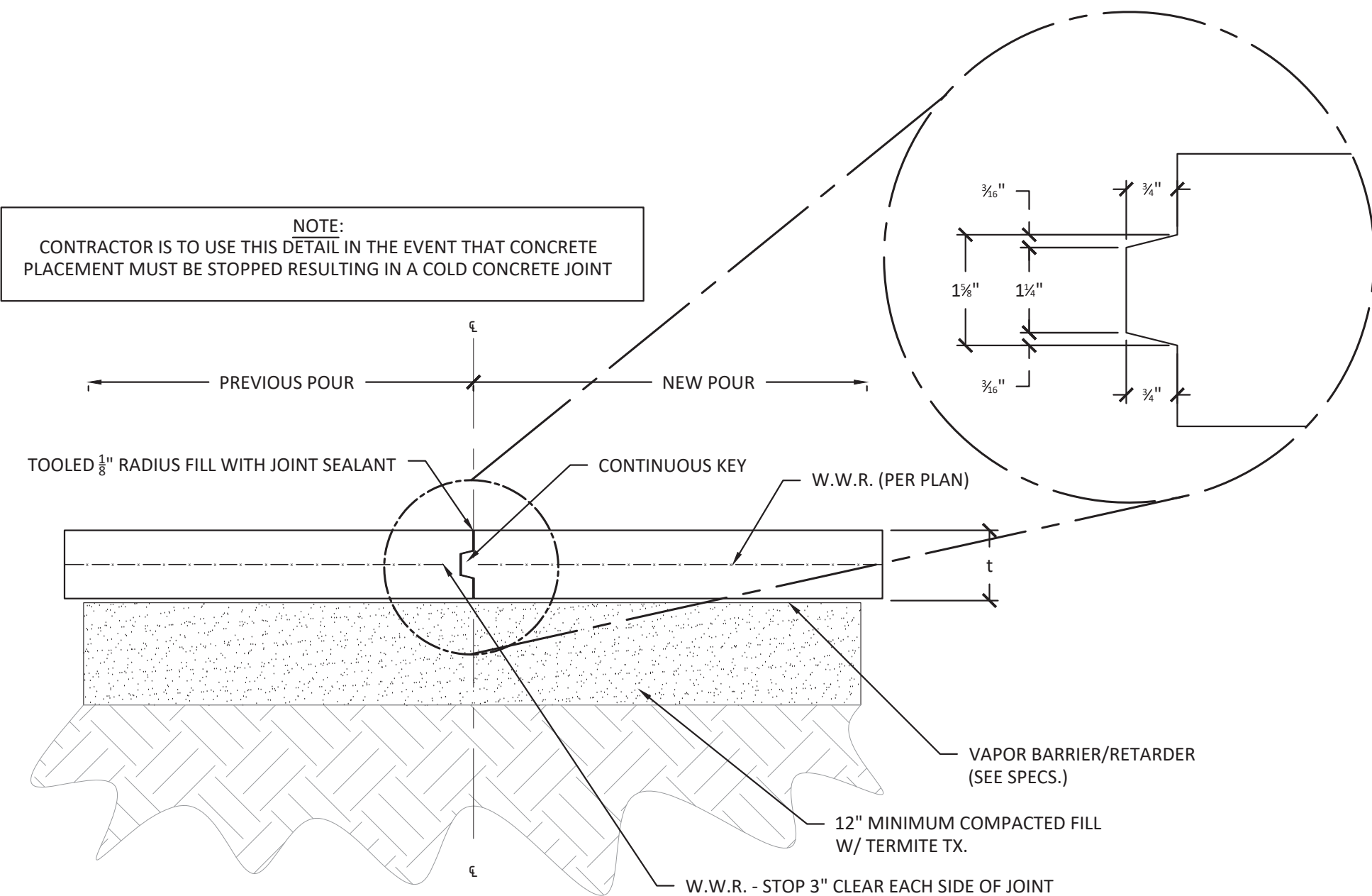
**1** STEEL BASE PLATE DETAIL AT CANOPY  
S-3.1 SCALE: 1 1/2" = 1'-0"



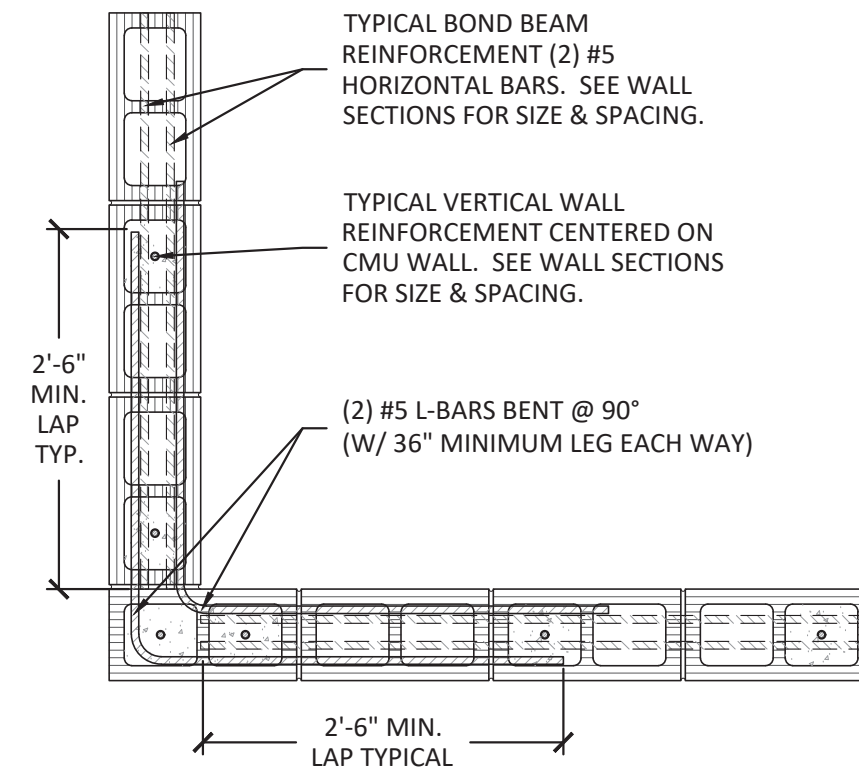
**3** CANOPY FOUNDATION DETAIL  
S-3.1 SCALE: 1" = 1'-0"



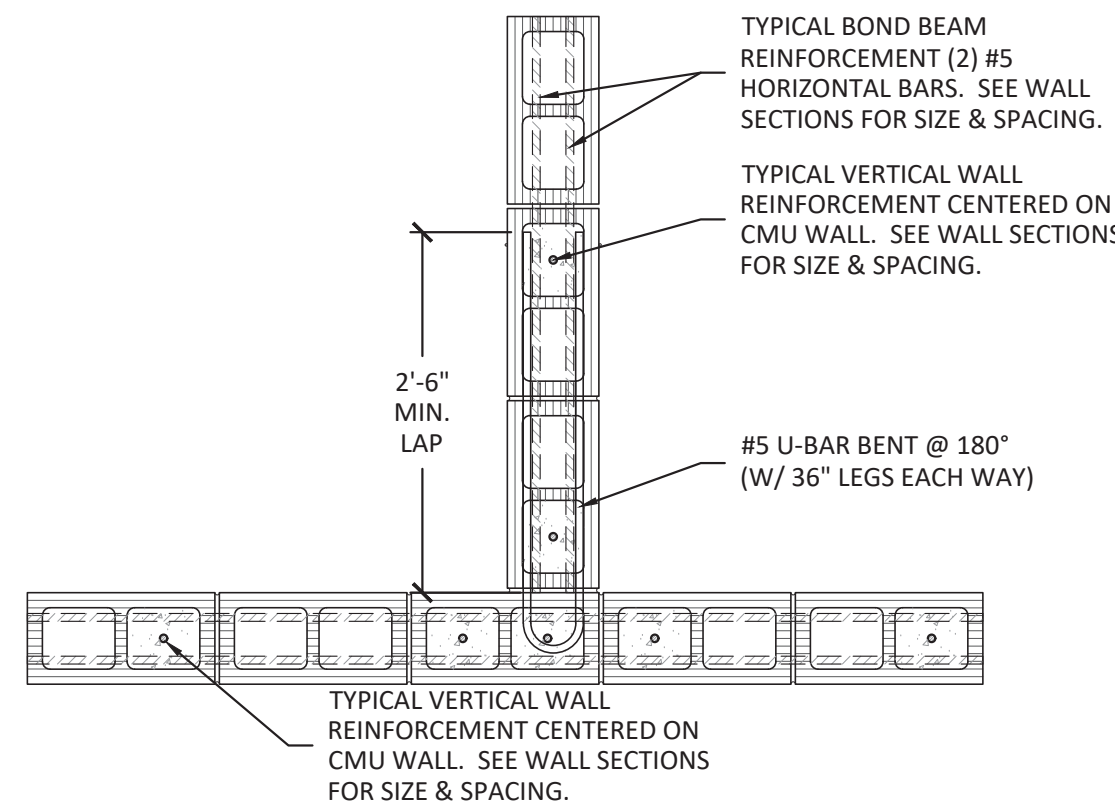
**4** WALL FOUNDATION DETAIL  
S-3.1 SCALE: 1" = 1'-0"



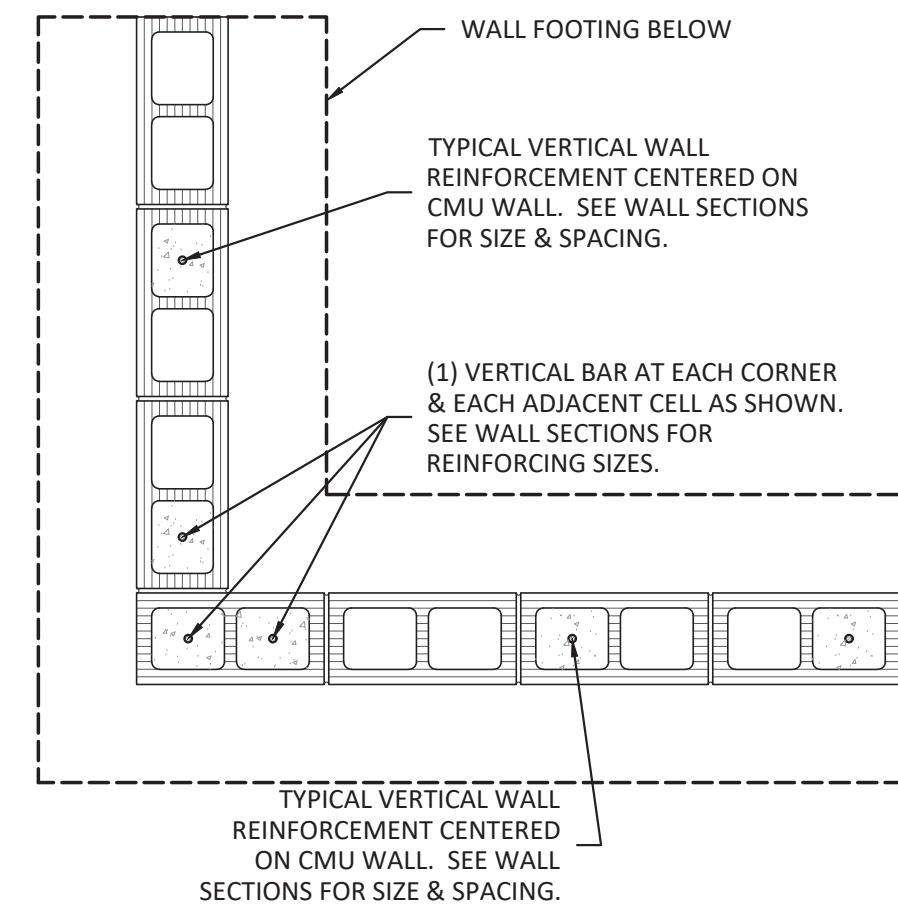
**6** TYPICAL CONSTRUCTION JOINT DETAIL  
S-3.1 SCALE: 1 1/2" = 1'-0"



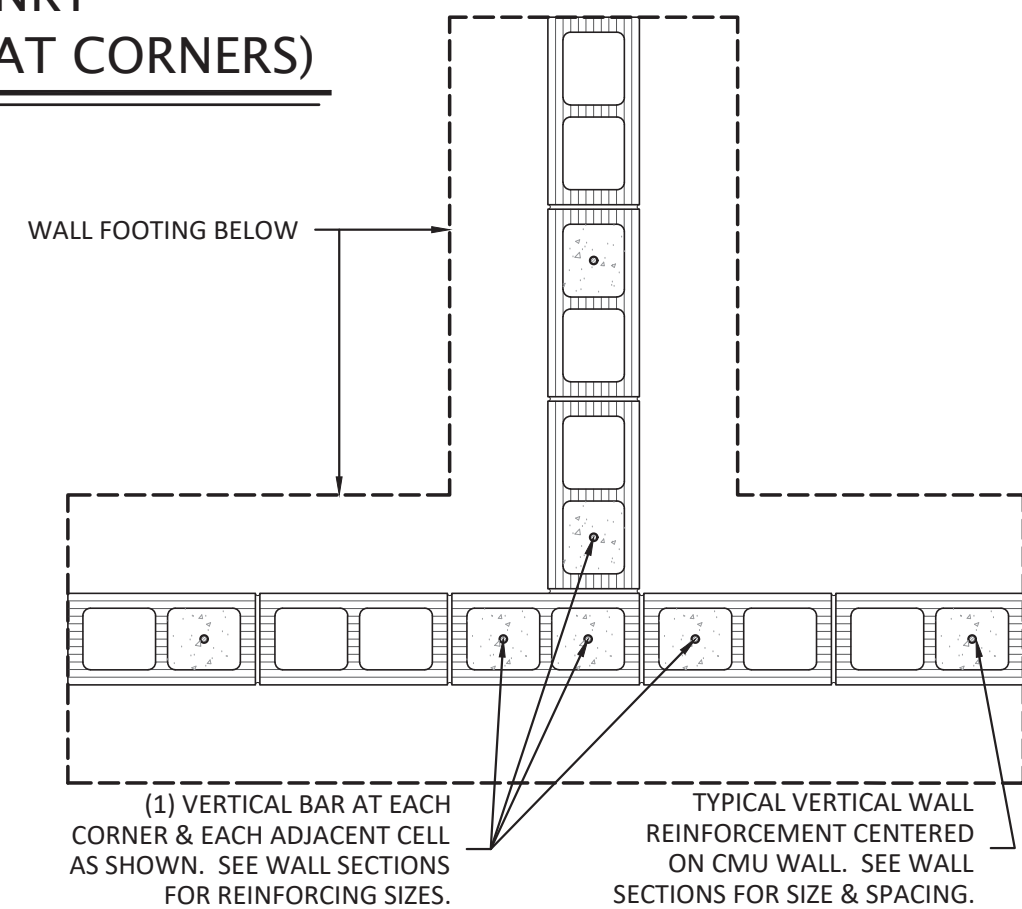
**10** TYPICAL BOND BEAM REINFORCING (AT CORNERS)  
S-3.1 SCALE: 3/4" = 1'-0"



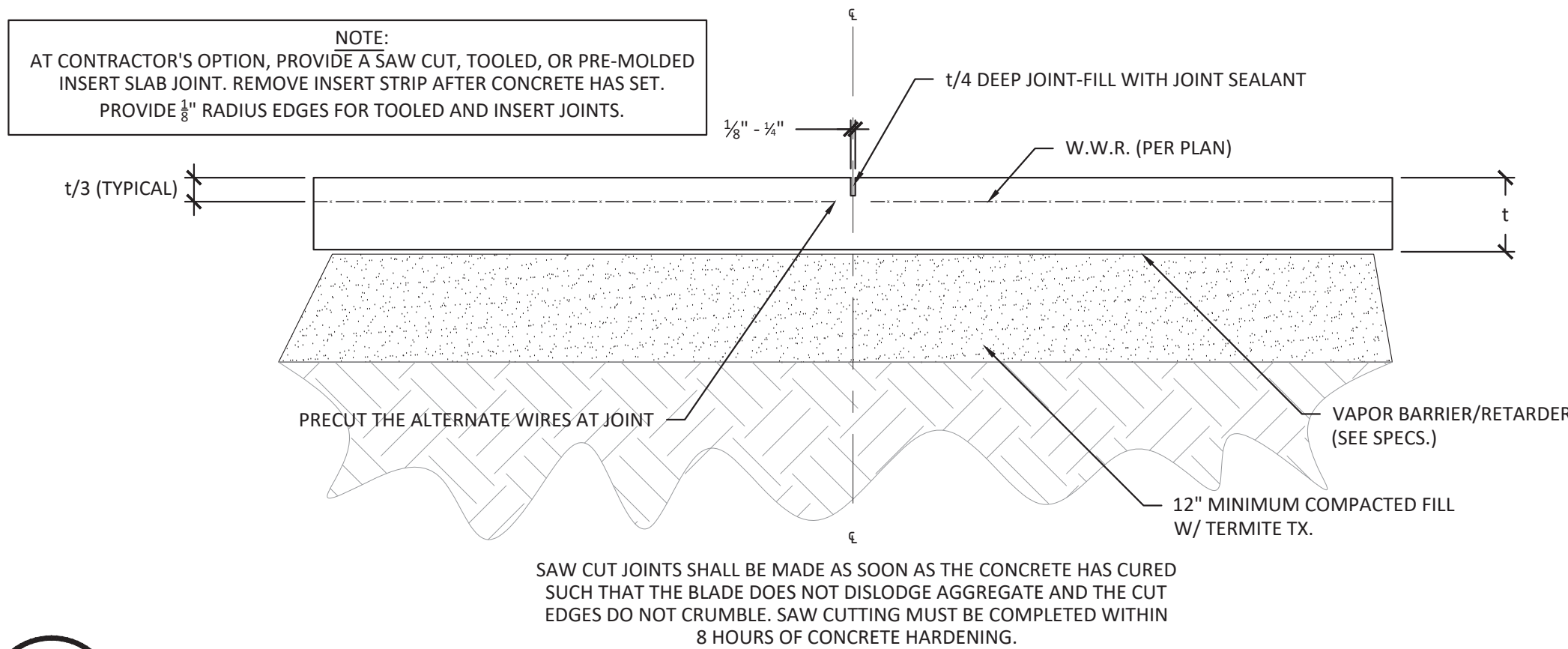
**11** TYPICAL BOND BEAM REINFORCING (AT INTERSECTIONS)  
S-3.1 SCALE: 3/4" = 1'-0"



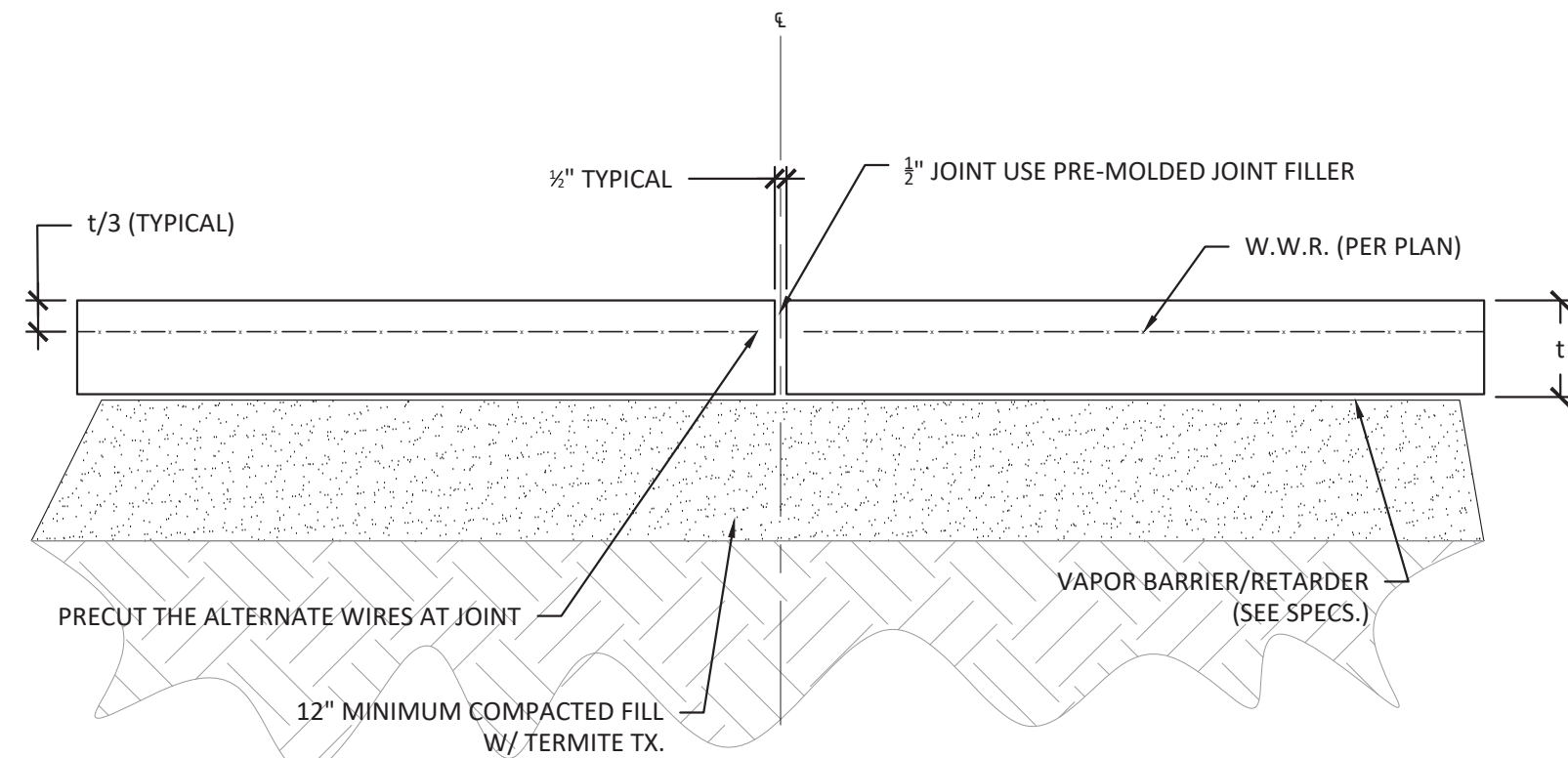
**2** TYPICAL MASONRY REINFORCING (AT CORNERS)  
S-3.1 SCALE: 3/4" = 1'-0"



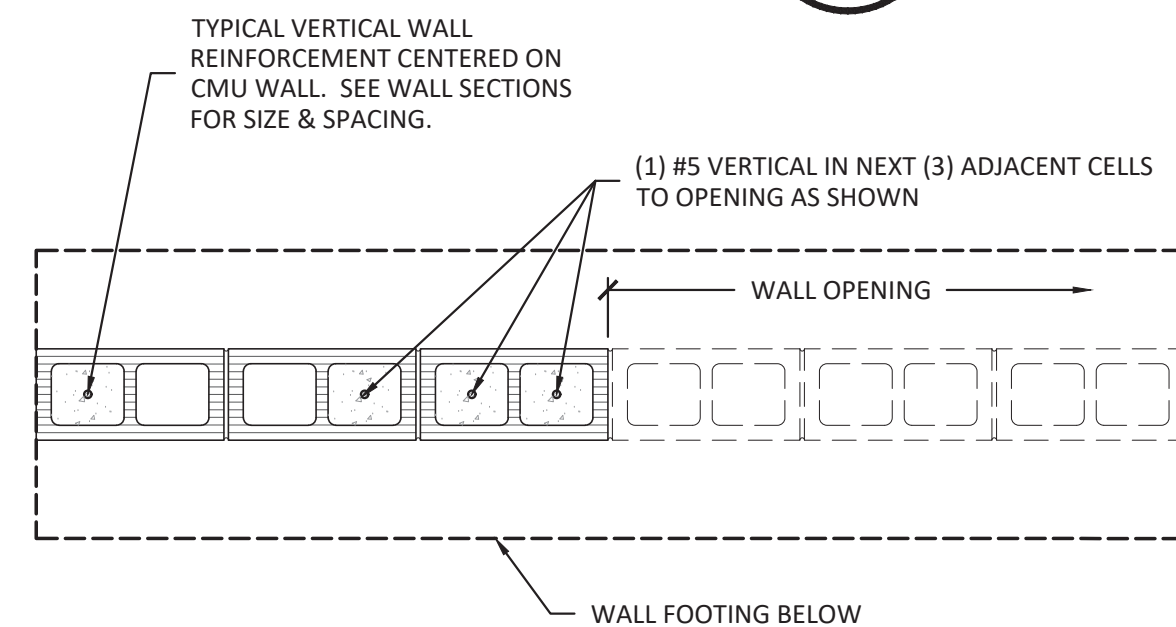
**8** TYPICAL MASONRY REINFORCING (AT INTERSECTIONS)  
S-3.1 SCALE: 3/4" = 1'-0"



**5** TYPICAL SAW CUT JOINT DETAIL  
S-3.1 SCALE: 1 1/2" = 1'-0"



**7** TYPICAL ISOLATION JOINT DETAIL  
S-3.1 SCALE: 1 1/2" = 1'-0"



**9** TYPICAL MASONRY REINFORCING (AT OPENINGS)  
S-3.1 SCALE: 3/4" = 1'-0"

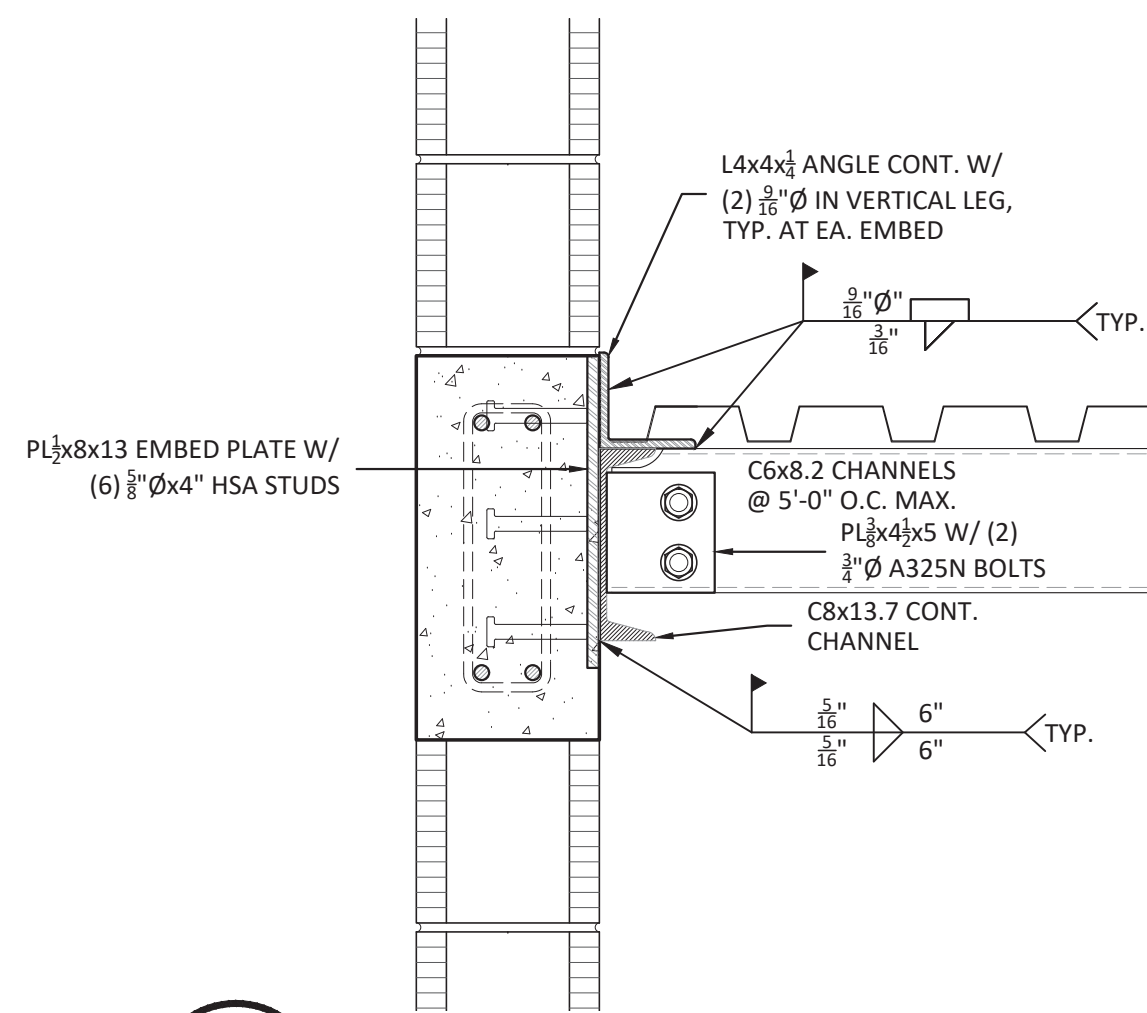
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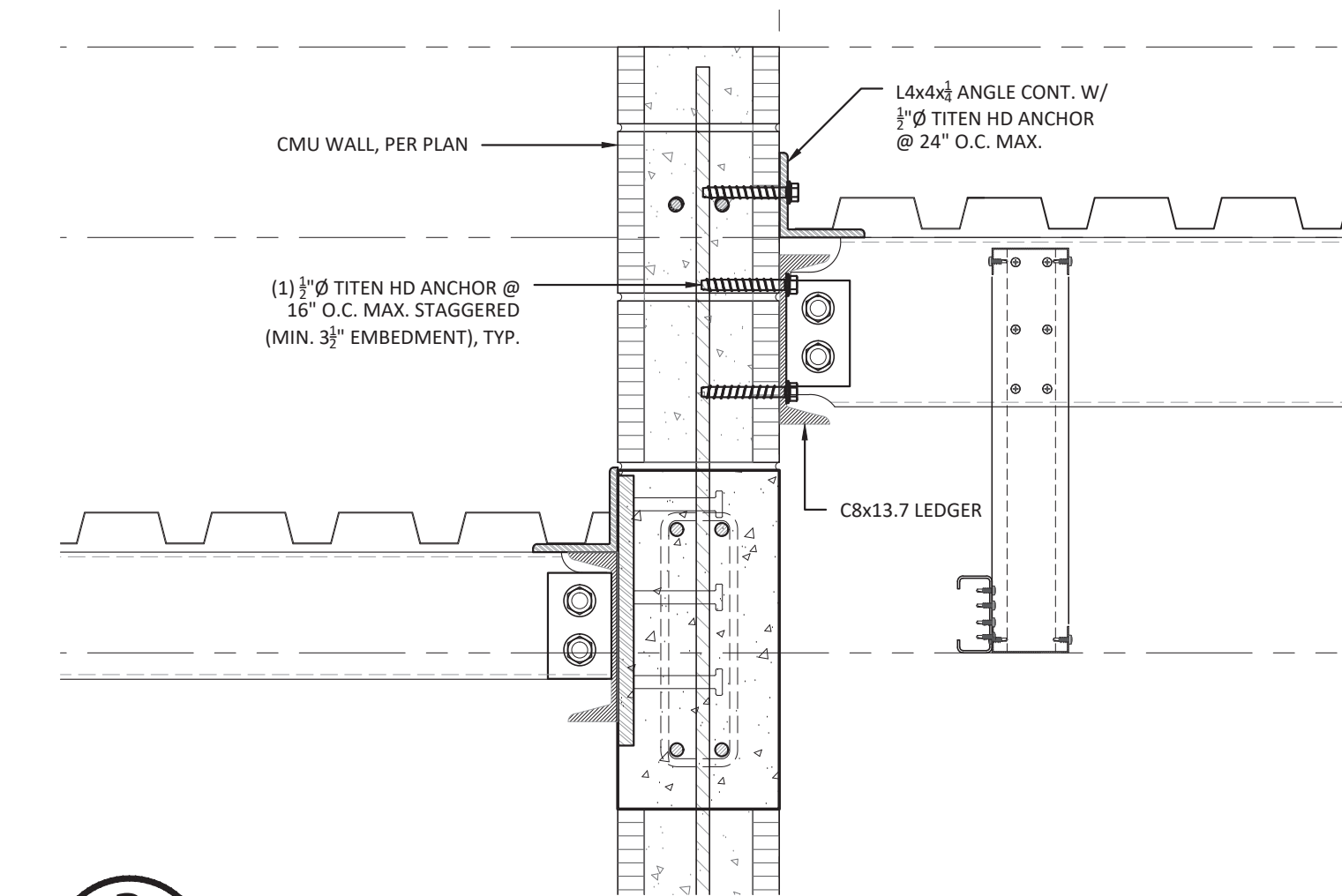
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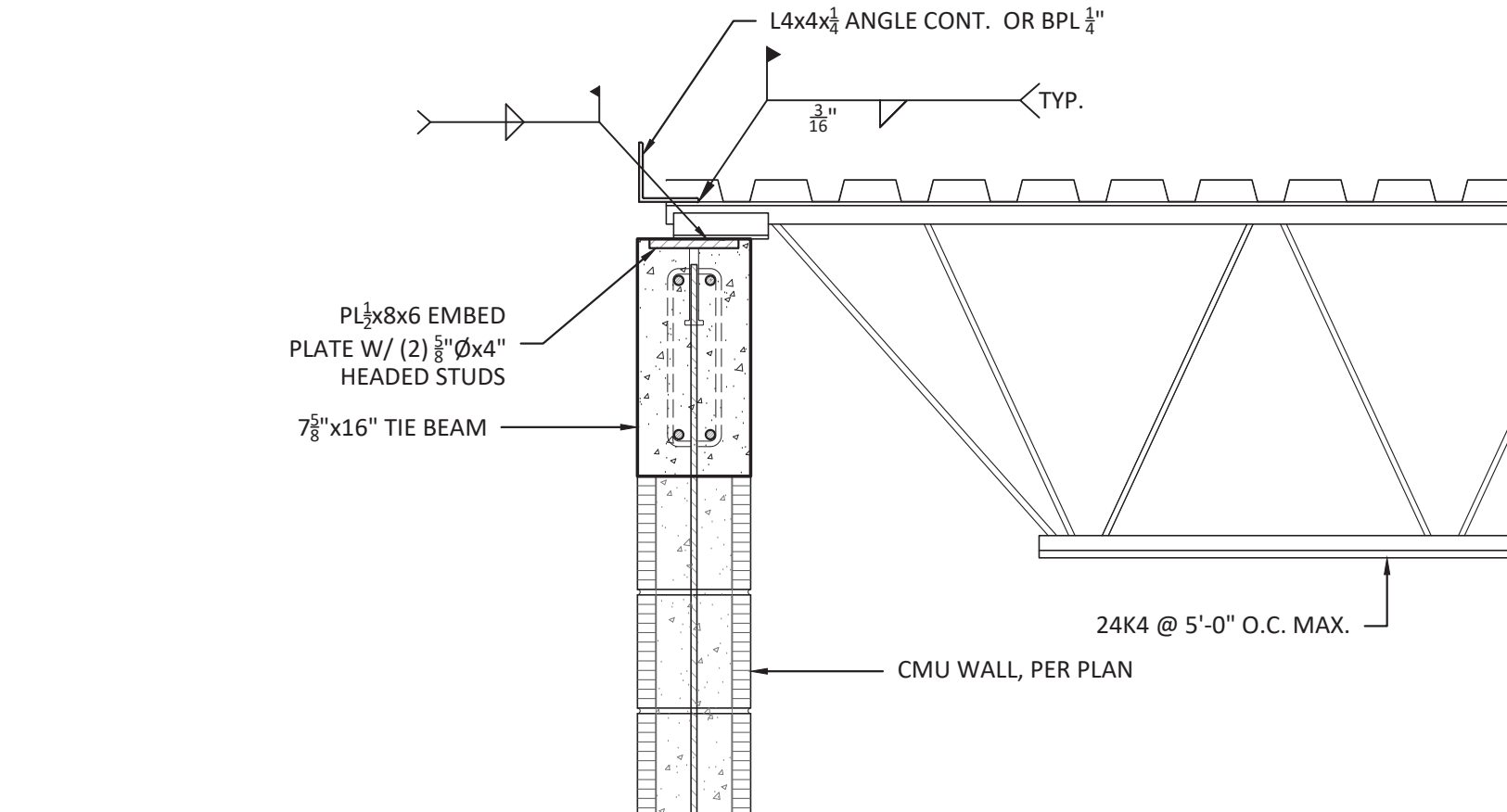




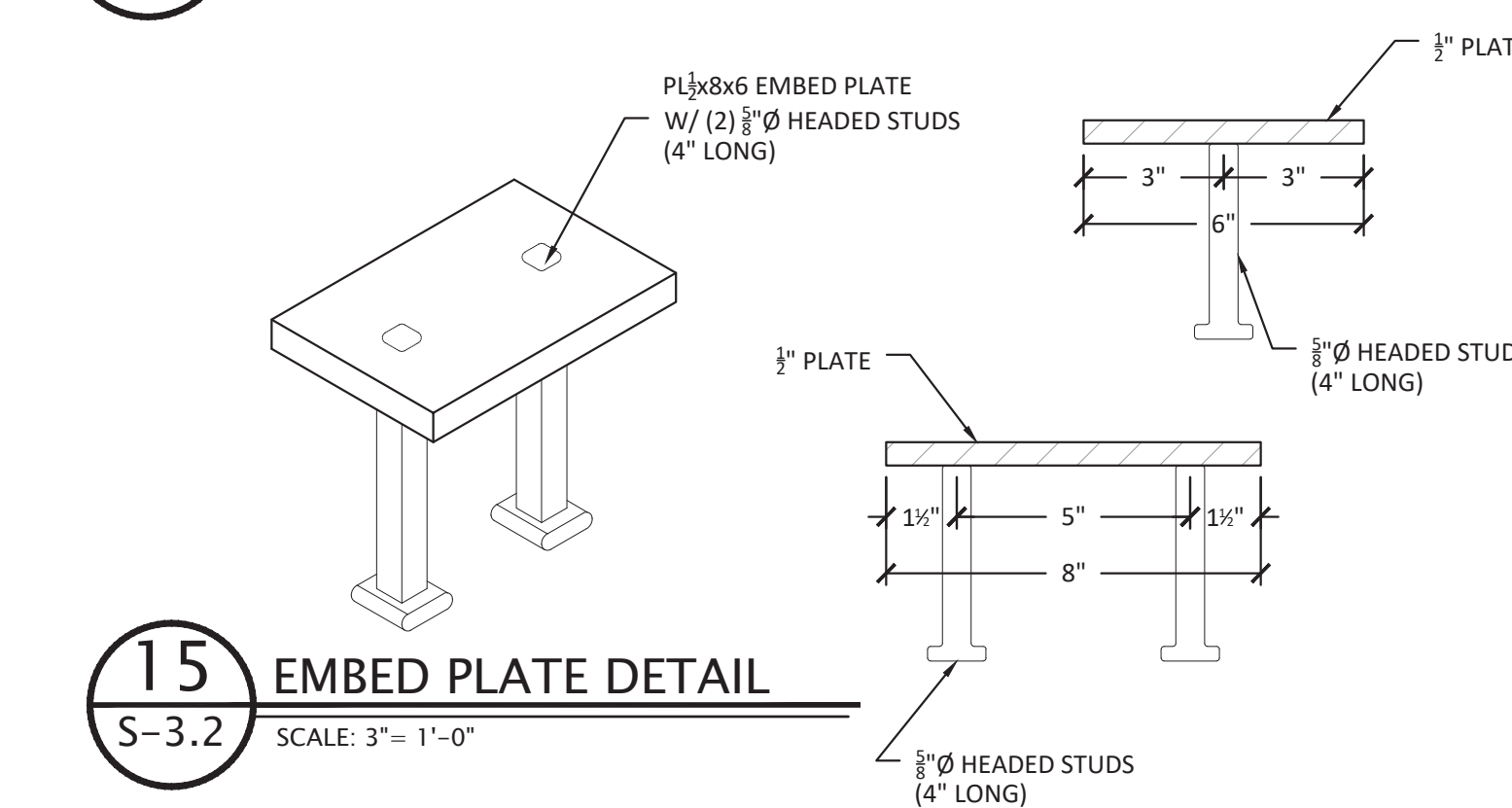
1 CHANNEL EMBED WALL DETAIL  
S-3.2 SCALE: 1 1/2" = 1'-0"



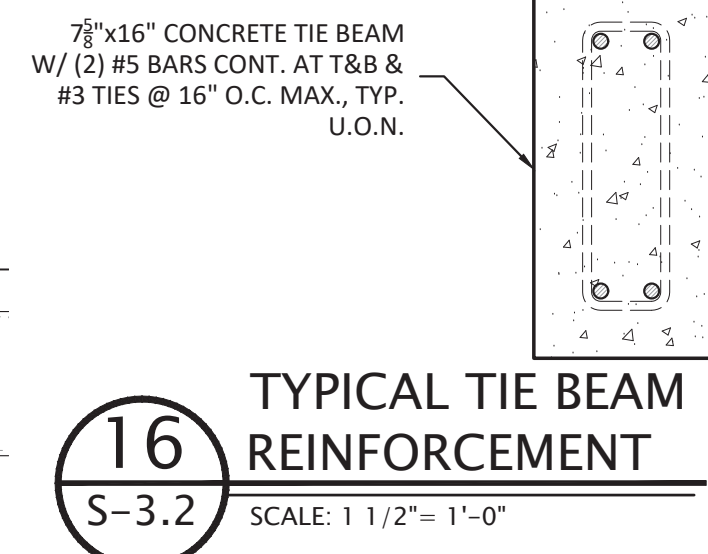
3 TYPICAL CANOPY LEDGER DETAIL  
S-3.2 SCALE: 1 1/2" = 1'-0"



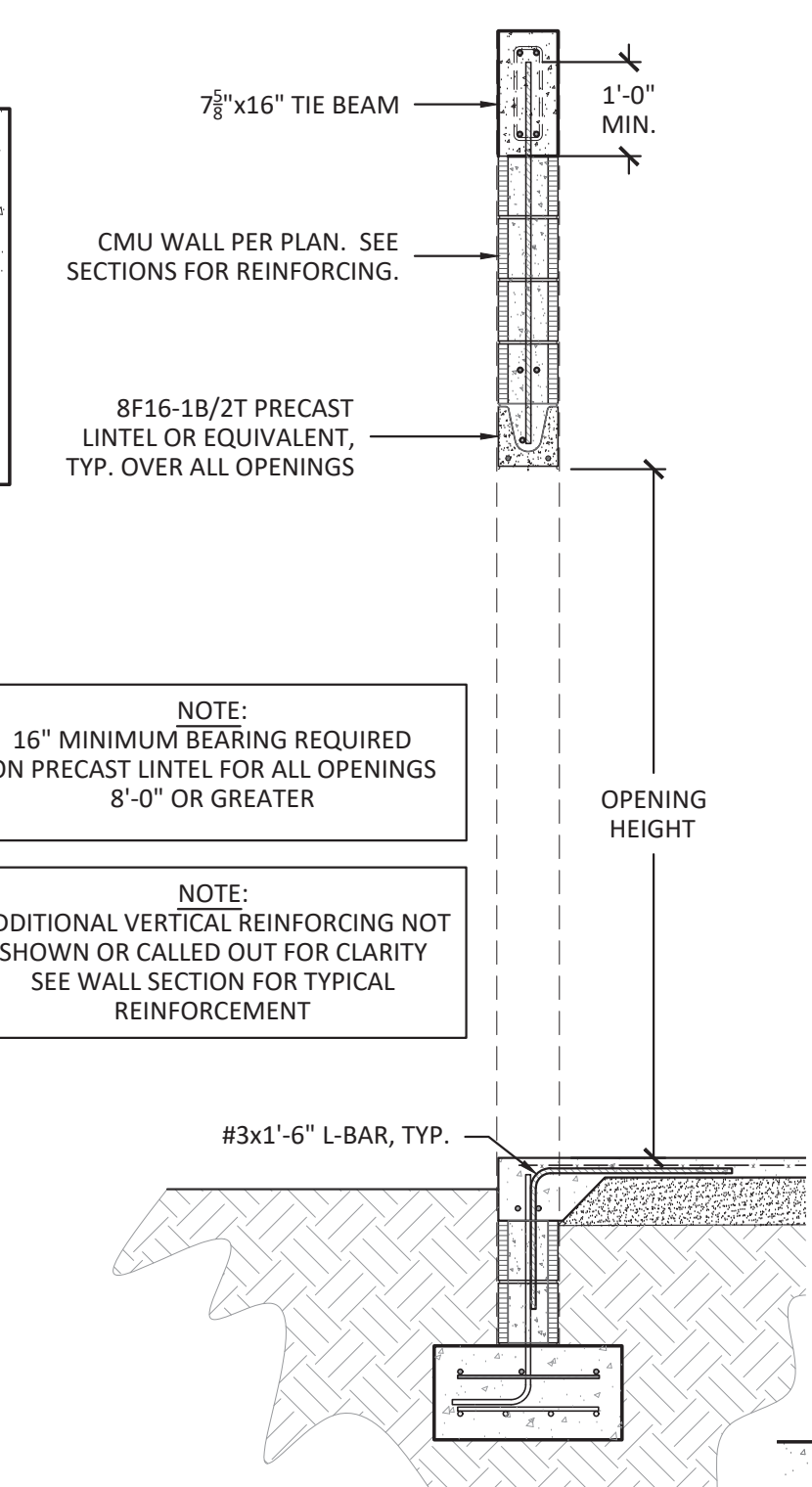
2 TYPICAL JOIST CONNECTION  
S-3.2 SCALE: 1" = 1'-0"



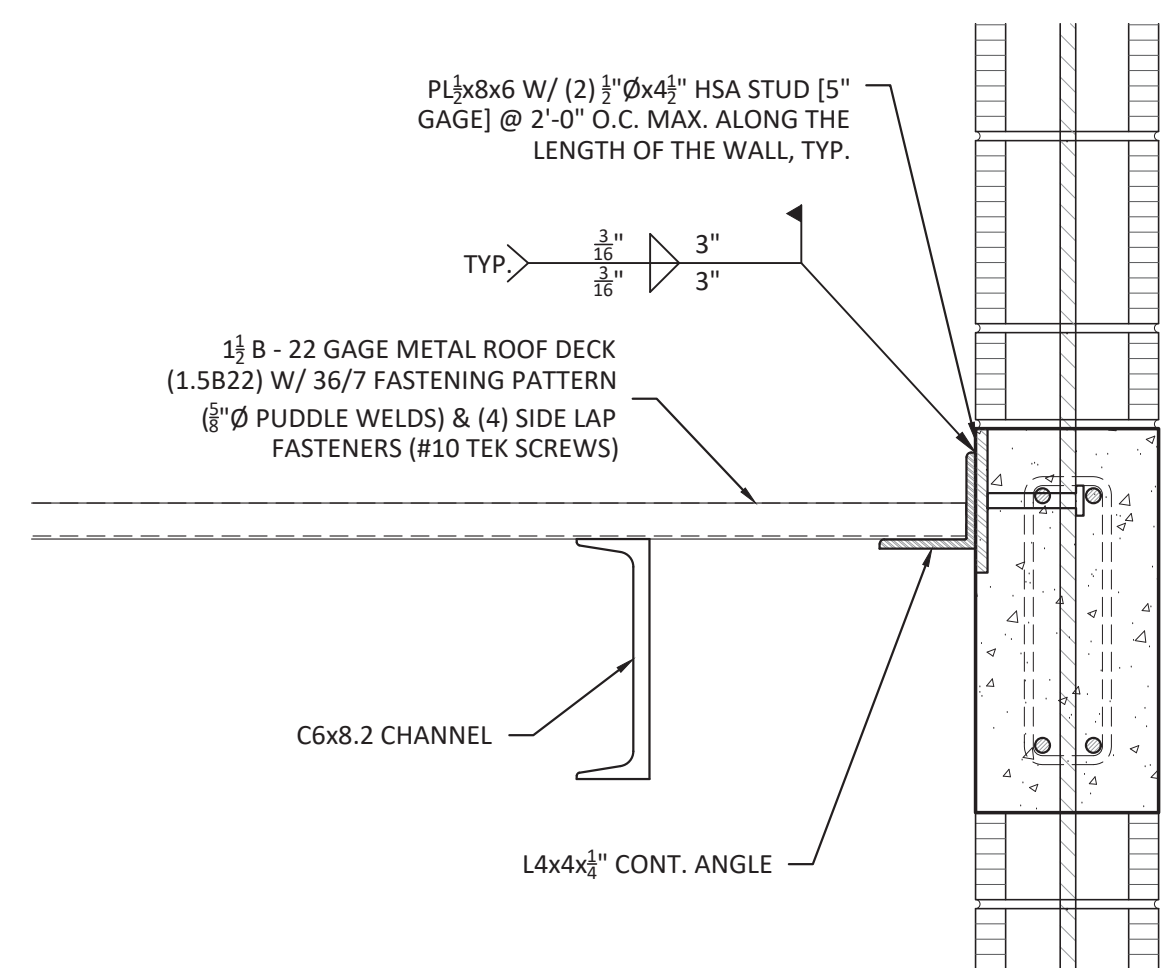
15 EMBED PLATE DETAIL  
S-3.2 SCALE: 3" = 1'-0"



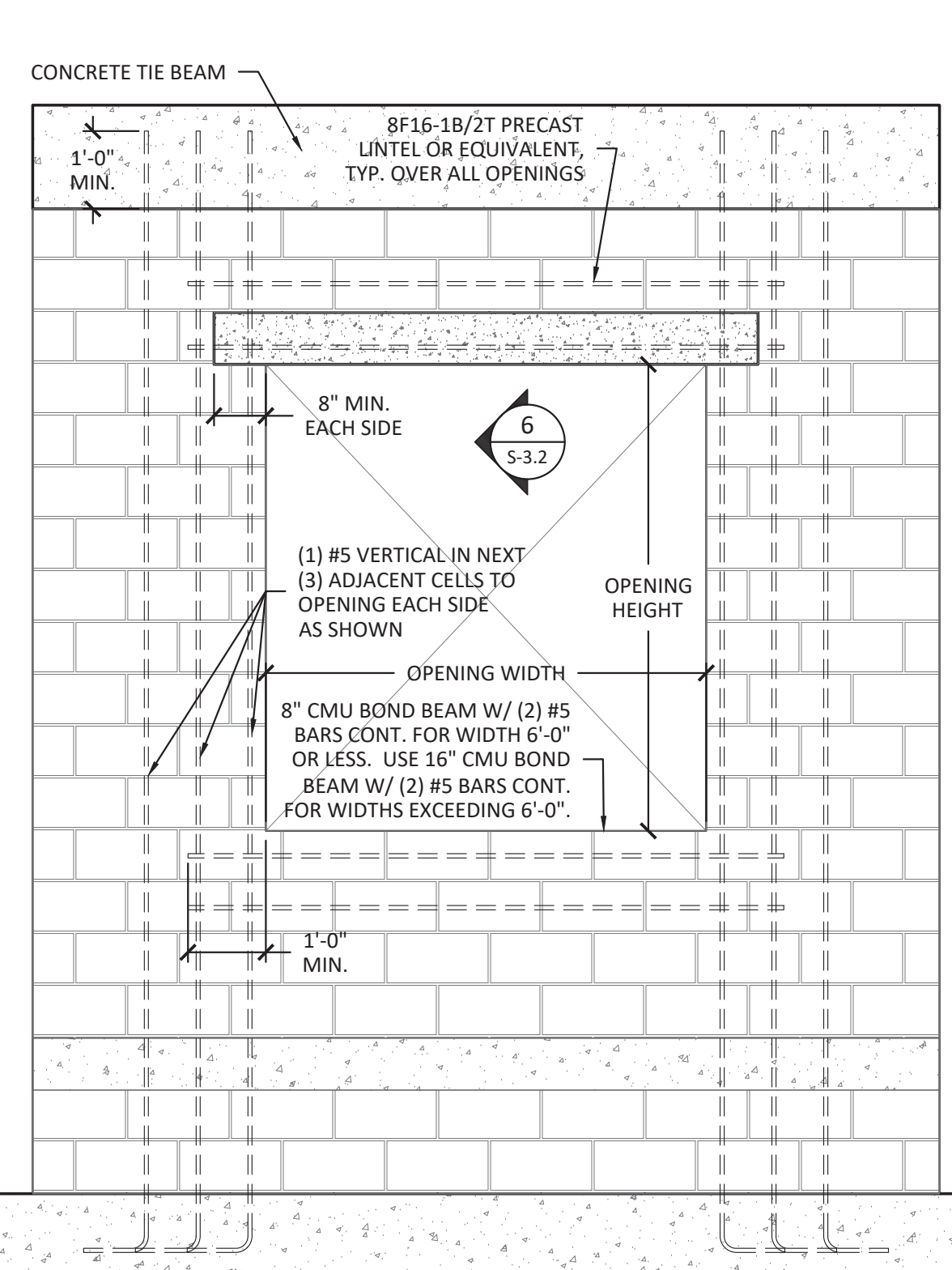
16 TYPICAL TIE BEAM REINFORCEMENT  
S-3.2 SCALE: 1 1/2" = 1'-0"



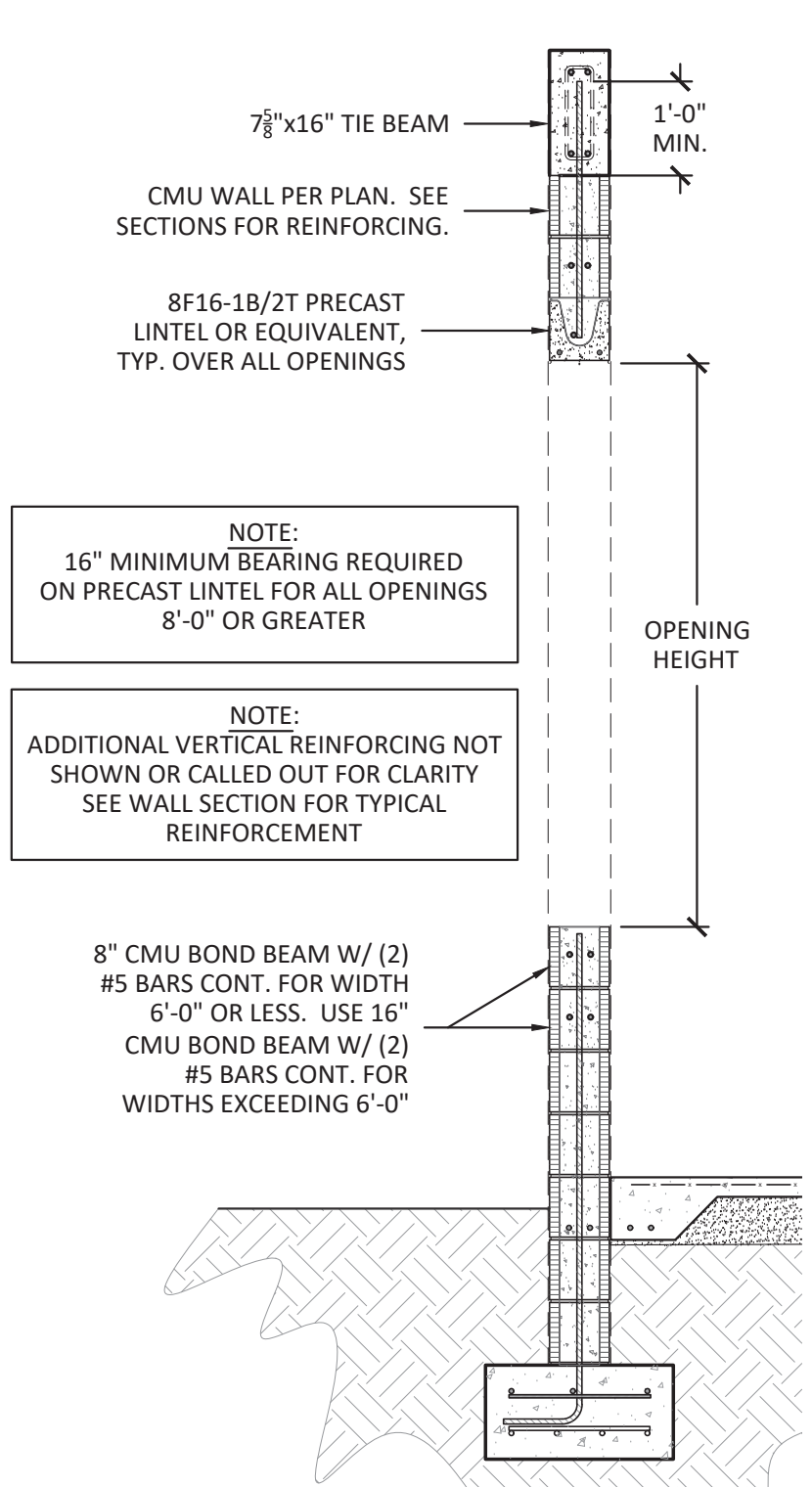
8 SECTION THRU TYPICAL WALL OPENING  
S-3.2 SCALE: 1/2" = 1'-0"



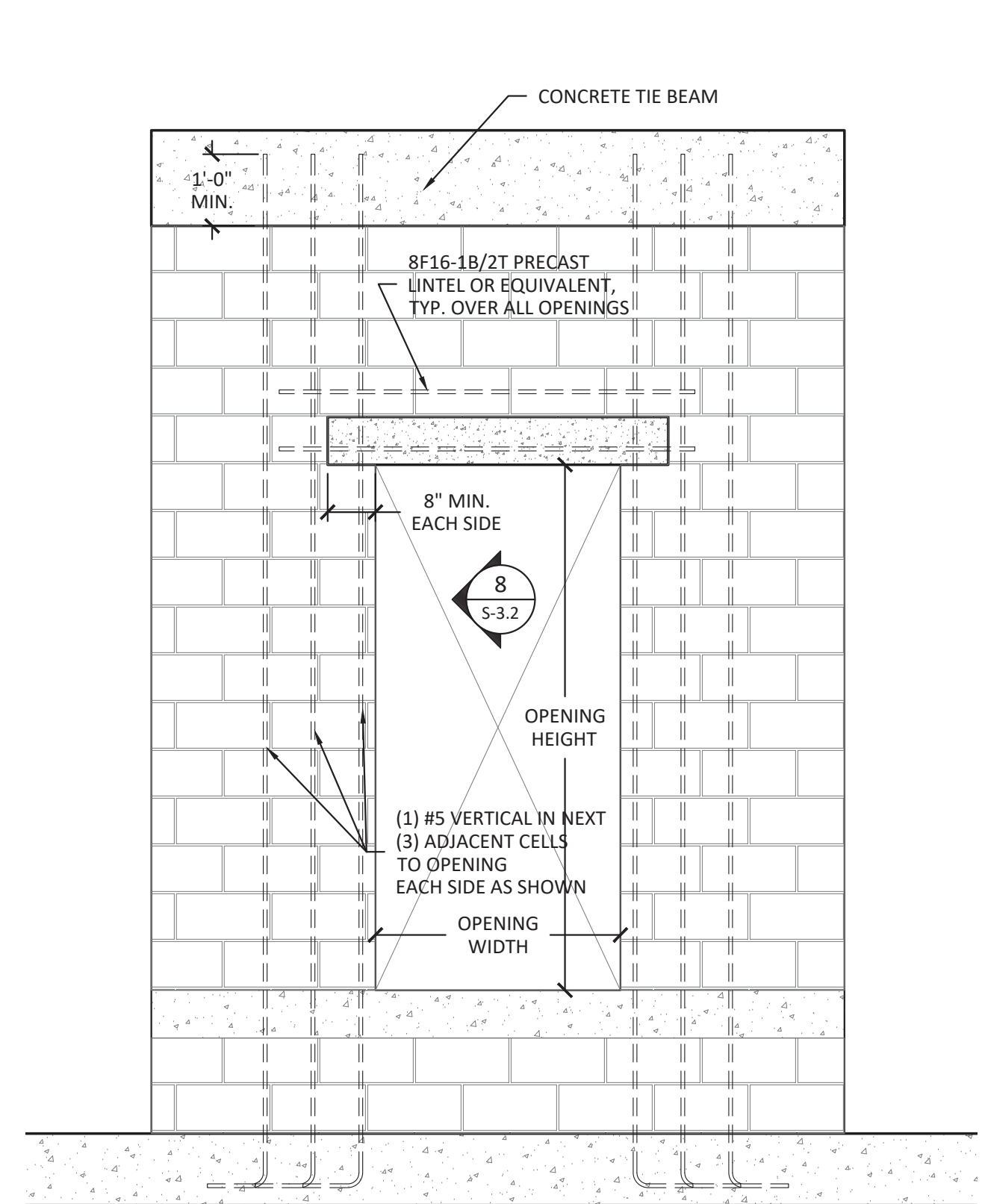
14 TYPICAL METAL DECK TERMINATION AT CMU WALL  
S-3.2 SCALE: 1 1/2" = 1'-0"



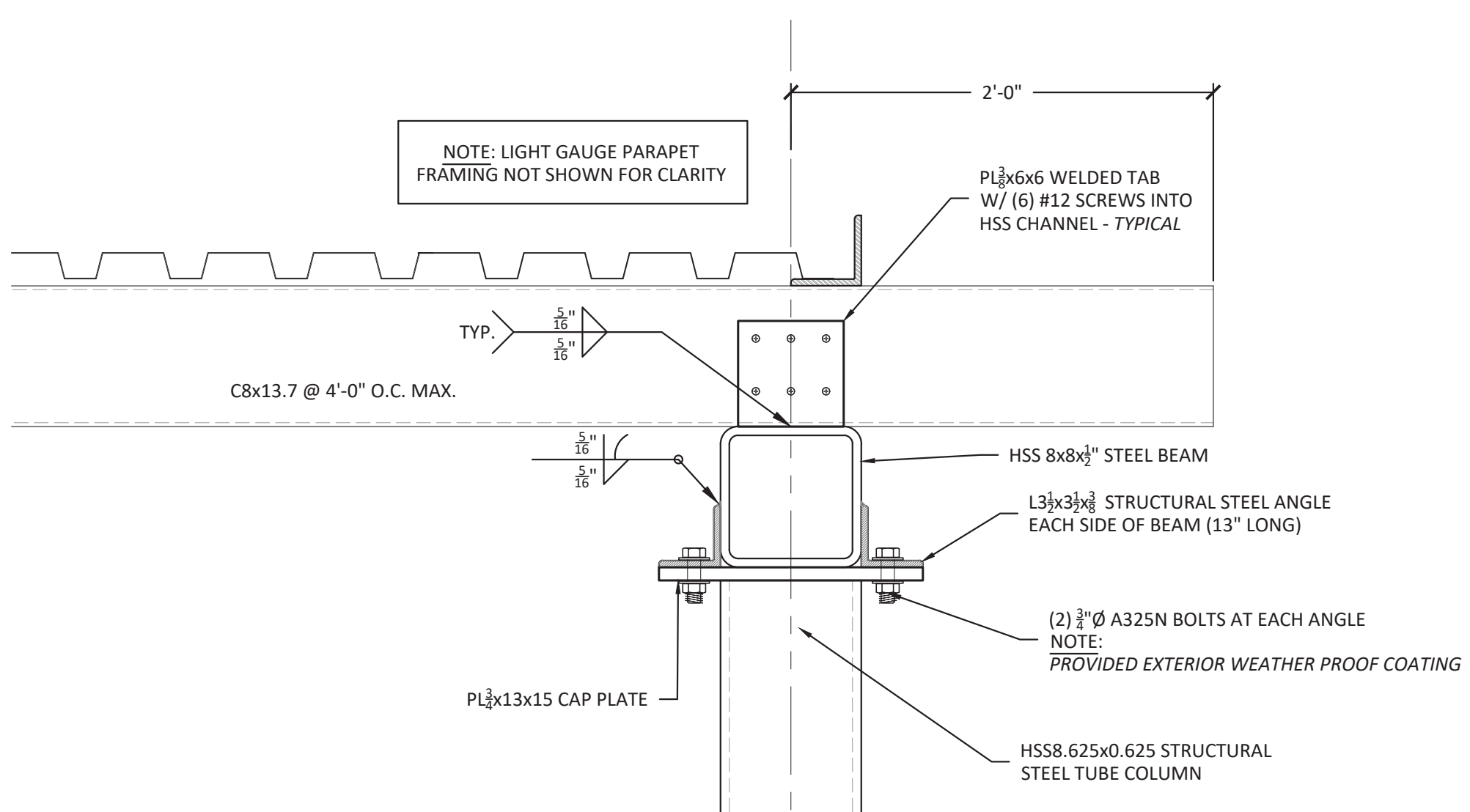
5 TYPICAL WALL OPENING  
S-3.2 SCALE: 1/2" = 1'-0"



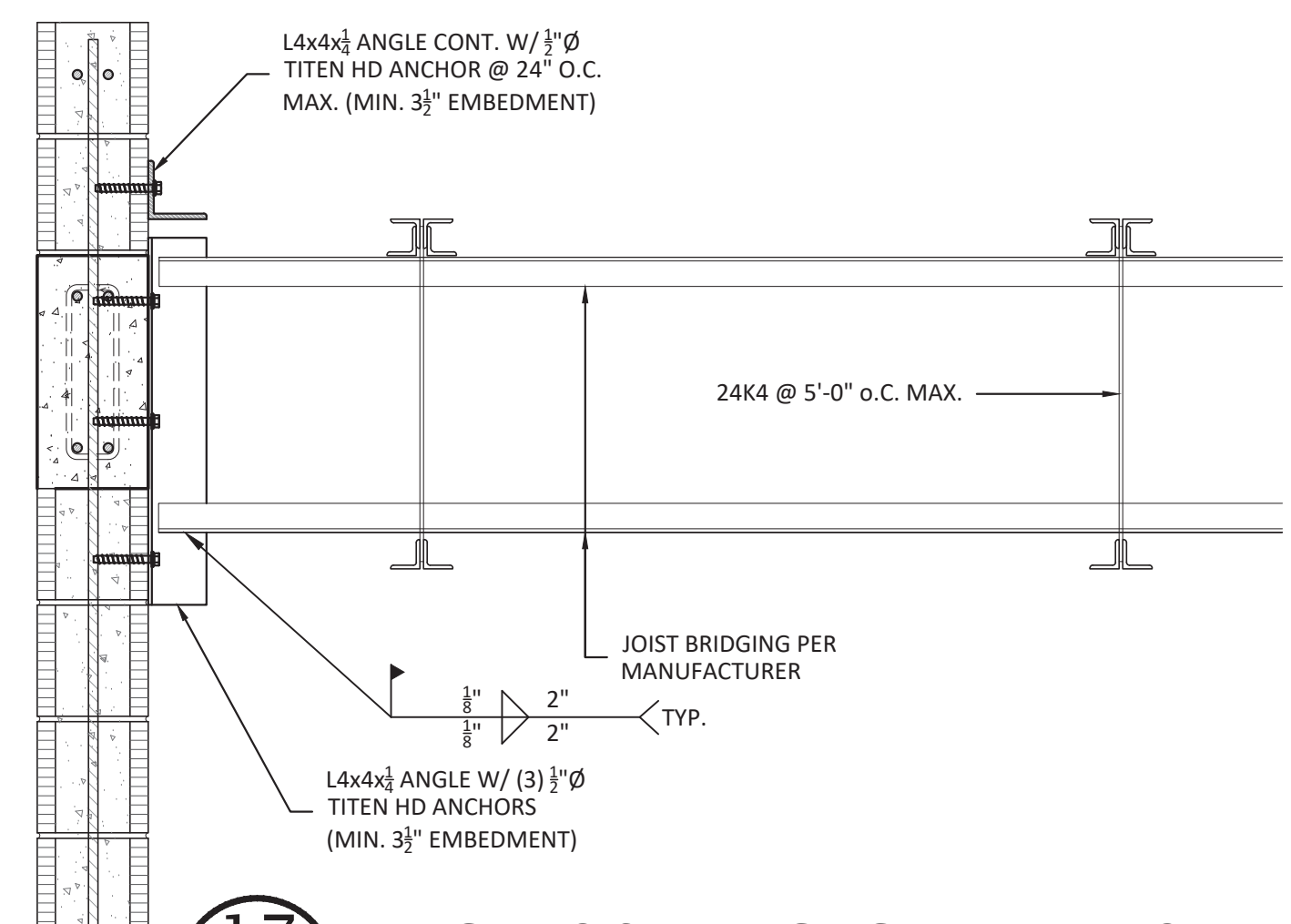
6 SECTION THRU TYPICAL WALL OPENING  
S-3.2 SCALE: 1/2" = 1'-0"



7 TYPICAL WALL OPENING  
S-3.2 SCALE: 1/2" = 1'-0"



16 TYPICAL HSS CONNECTIONS  
S-3.2 SCALE: 1 1/2" = 1'-0"



17 TYPICAL JOIST BRIDGING TERMINATION  
S-3.2 SCALE: 1" = 1'-0"

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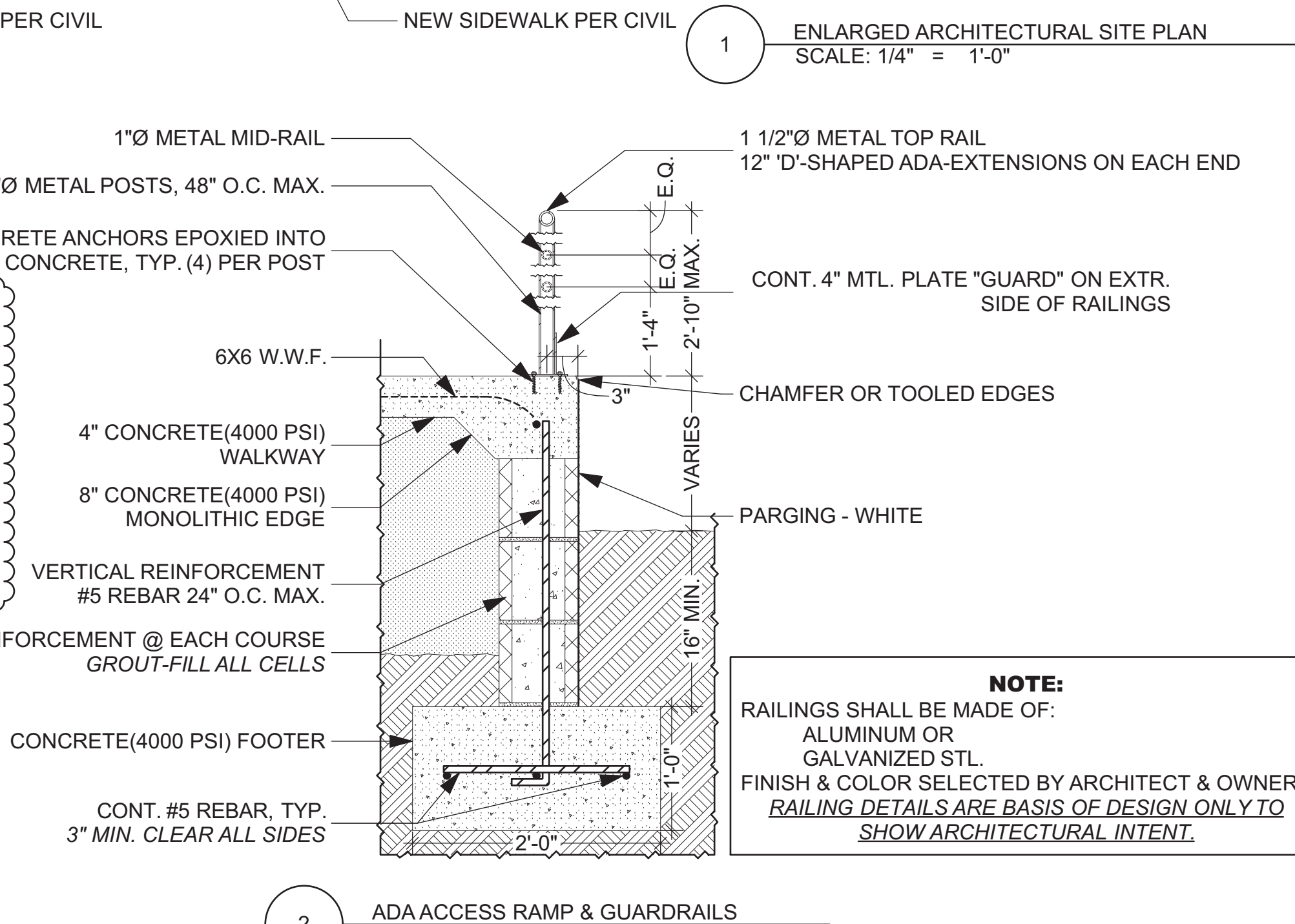
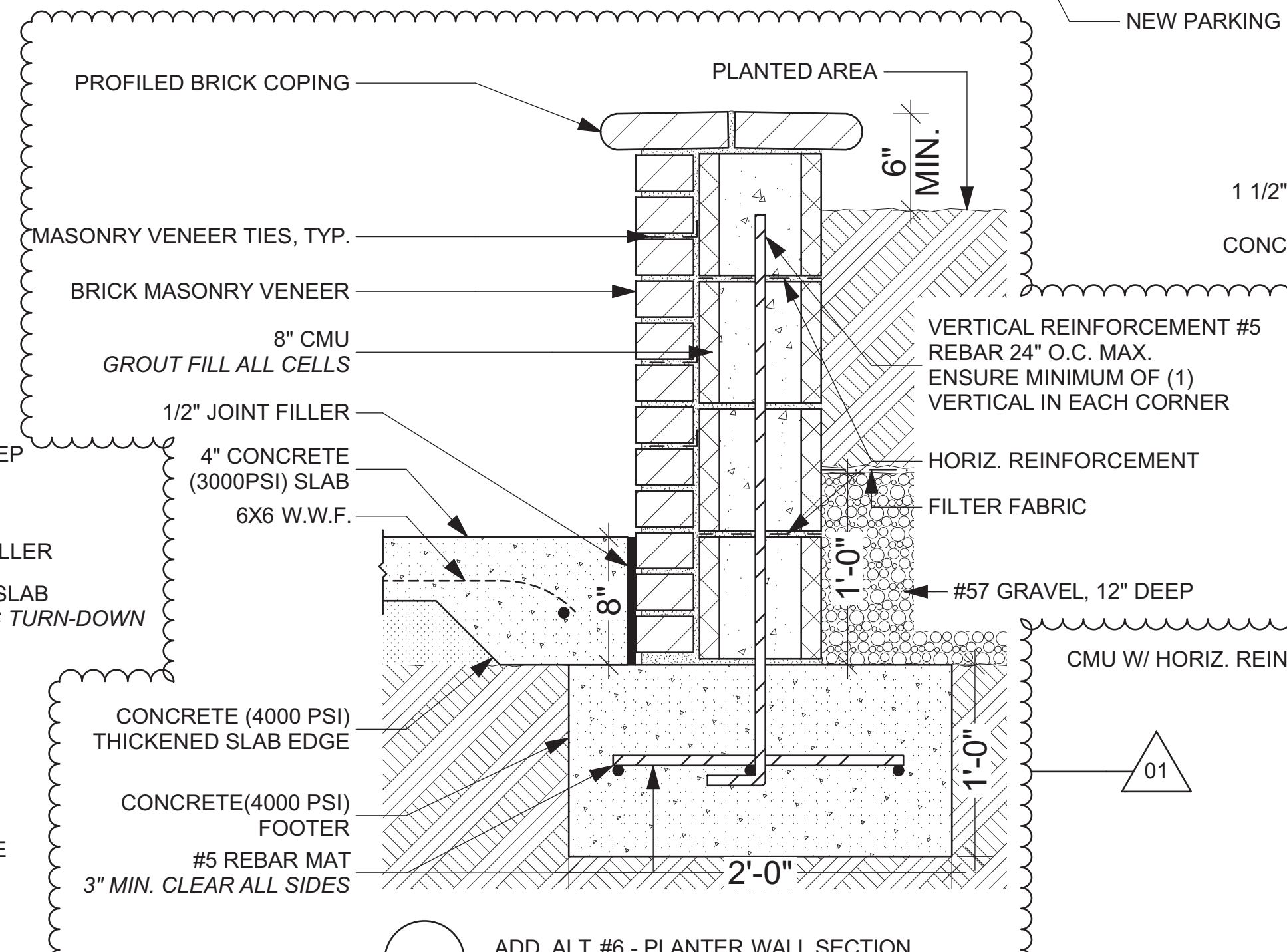
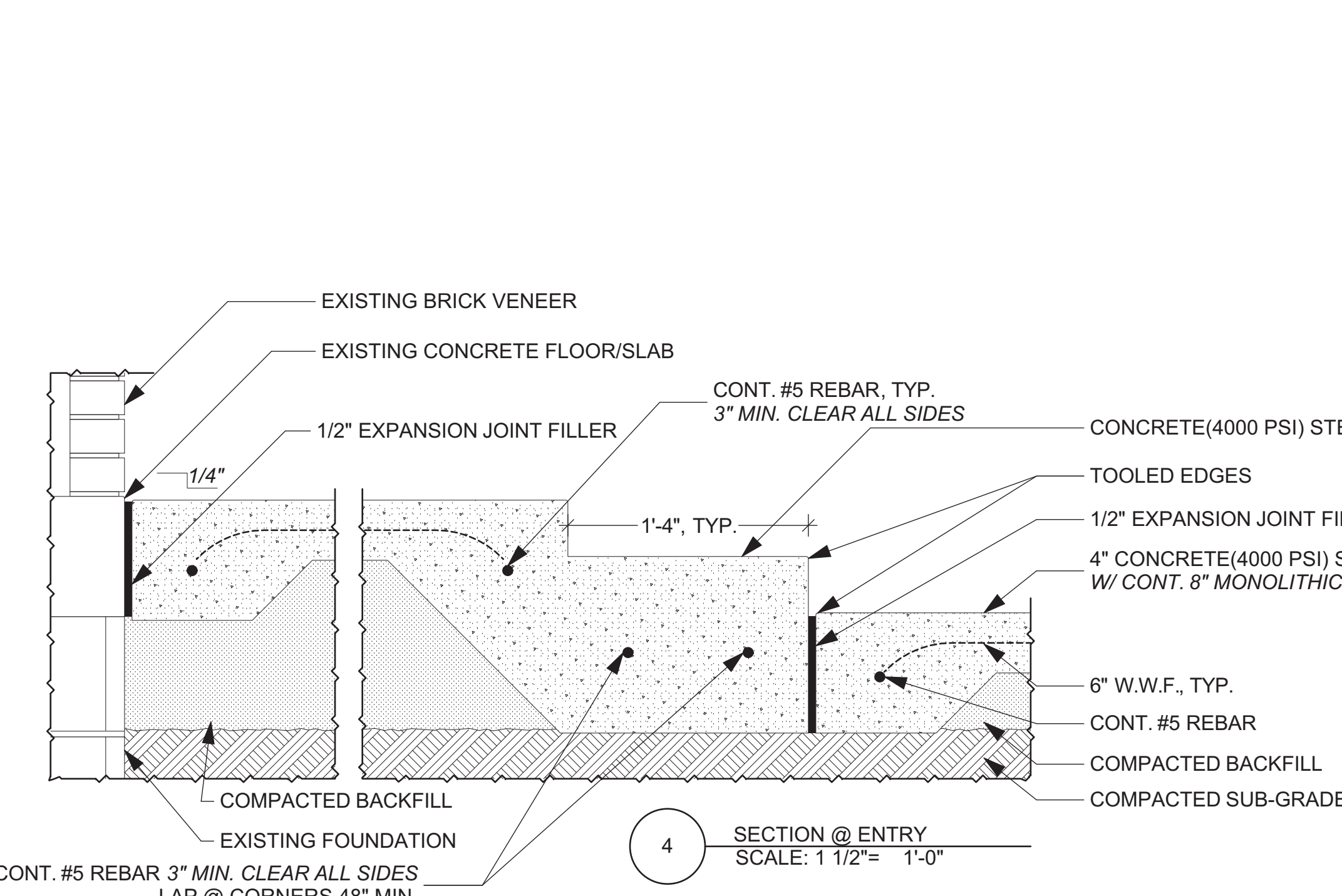
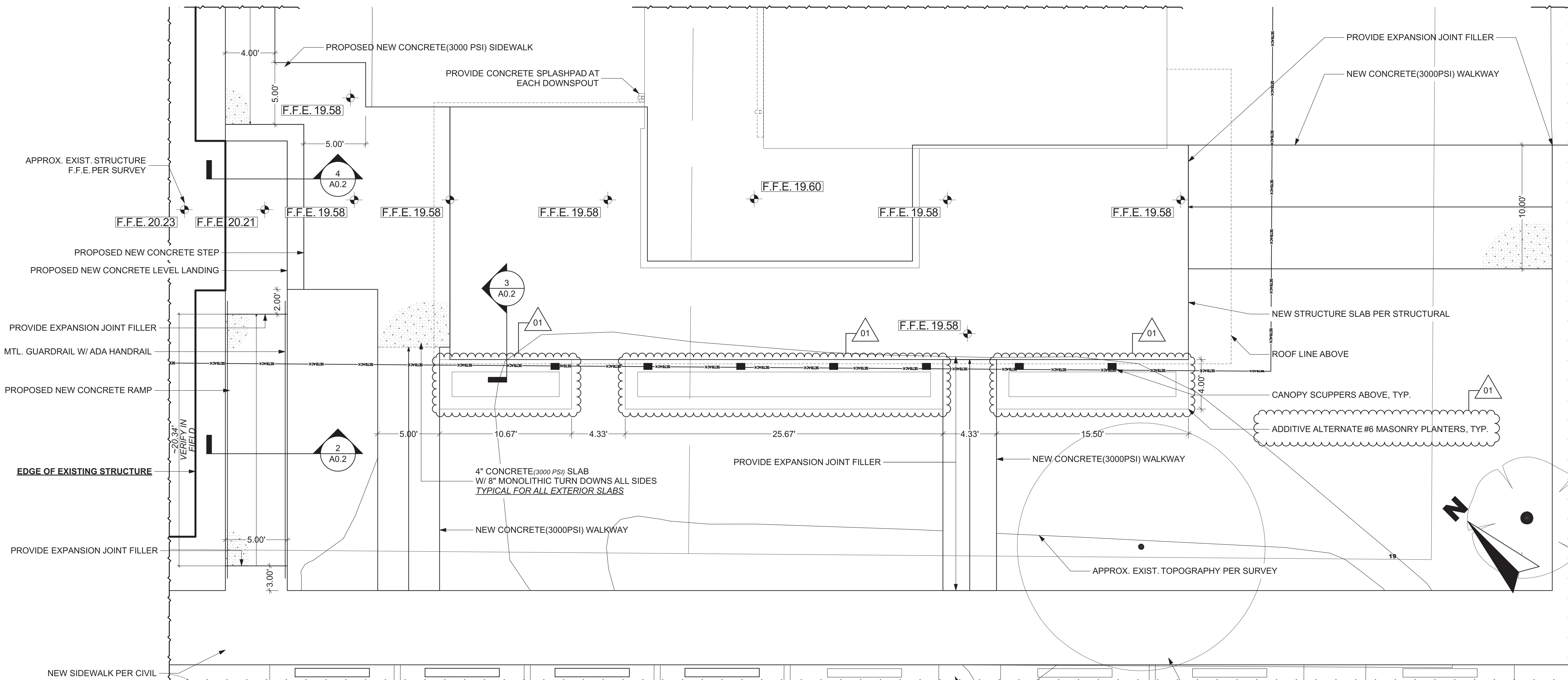


1 ARCHITECTURAL SITE PLAN  
SCALE: 1" = 10'

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CITY OF APALACHICOLA  AFRICAN-AMERICAN CULTURAL HISTORY MUSEUM	100% CONSTRUCTION DOCUMENTS	ARCHITECTURAL SITE PLAN															
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ID	DATE	DESCRIPTION															
▲	05/30/2025	REBID DOUCMENTS															
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<b>DRAWING</b>  <h1 style="margin: 0;">A0.1</h1>																	



REFER TO CIVIL DRAWINGS



**NOTE:**  
RAILINGS SHALL BE MADE OF:  
ALUMINUM OR  
GALVANIZED STL.  
FINISH & COLOR SELECTED BY ARCHITECT & OWNER.  
RAILING DETAILS ARE BASIS OF DESIGN ONLY TO  
SHOW ARCHITECTURAL INTENT.

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**ENLARGED ARCHITECTURAL SITE PLAN**

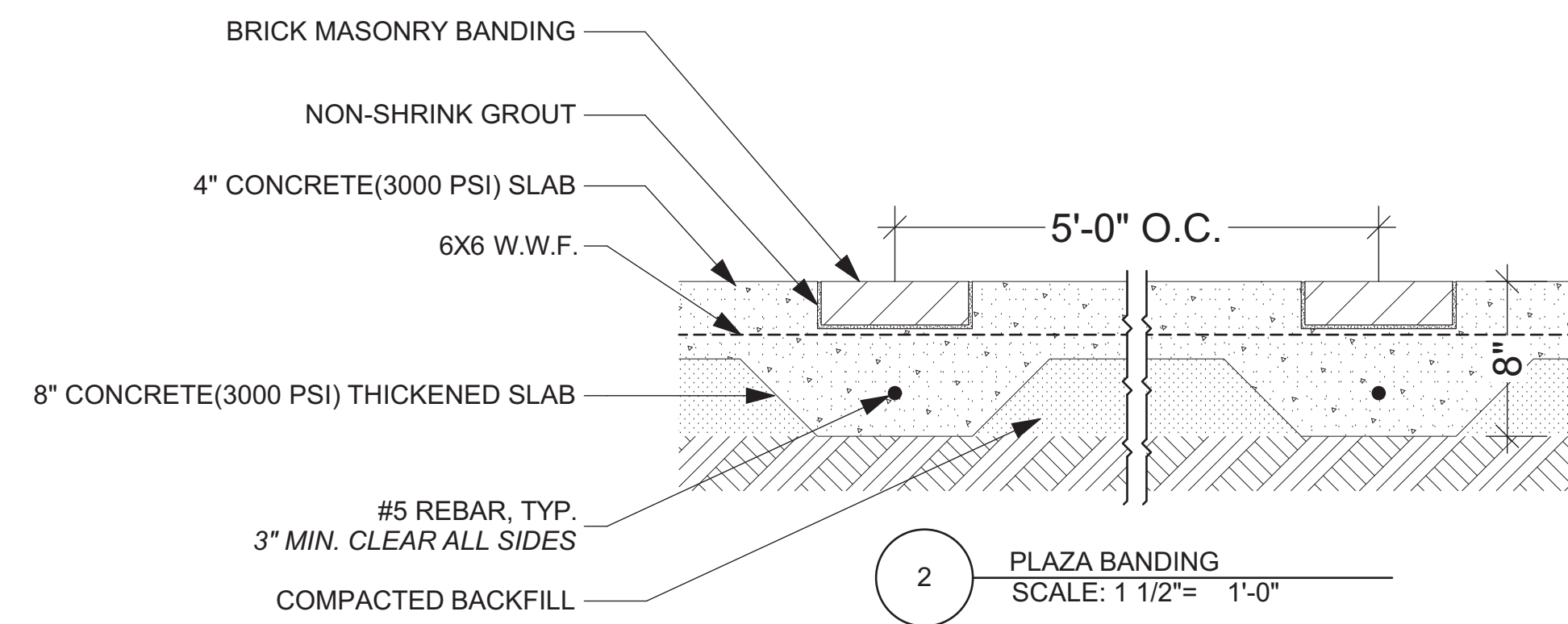
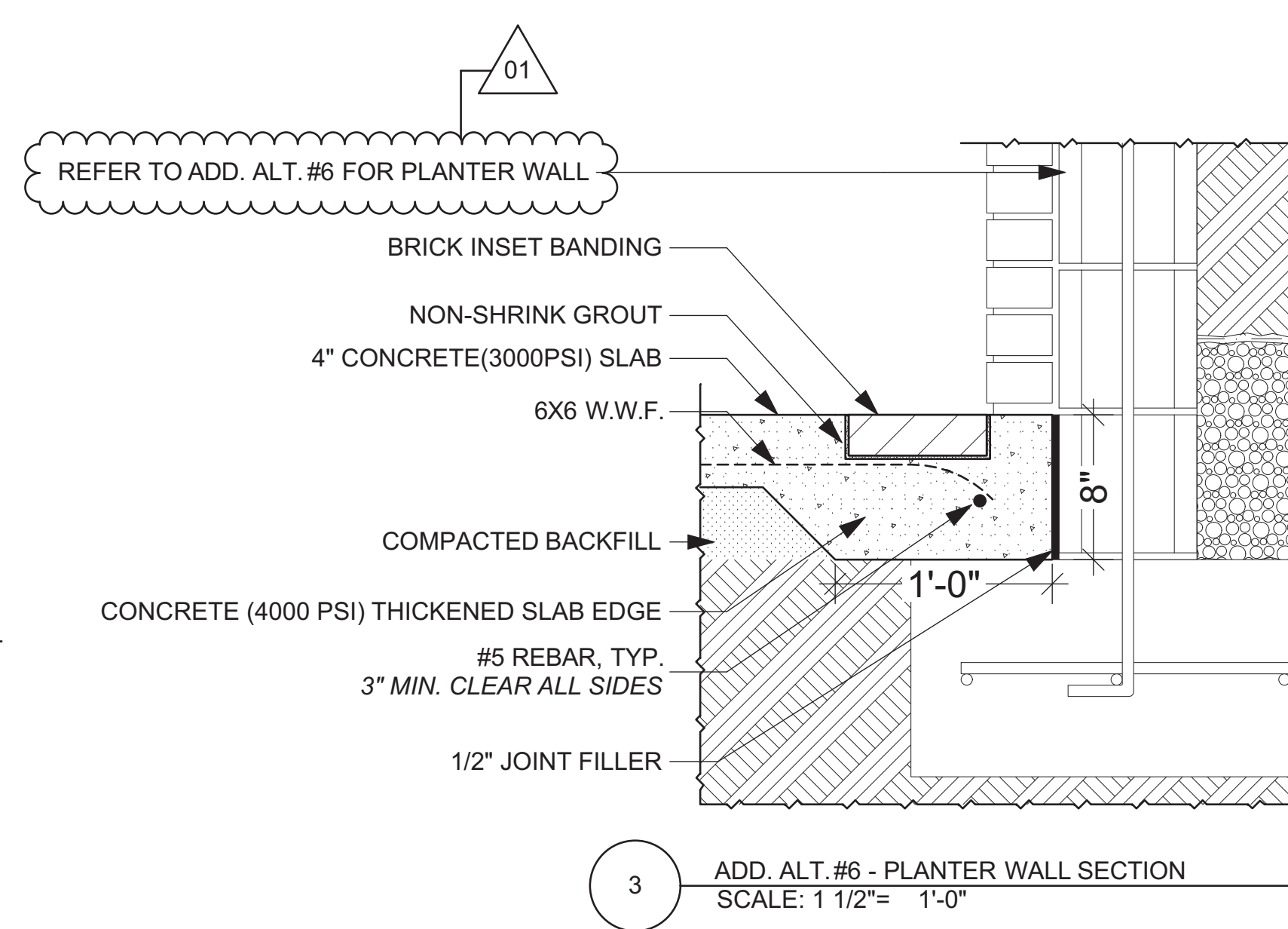
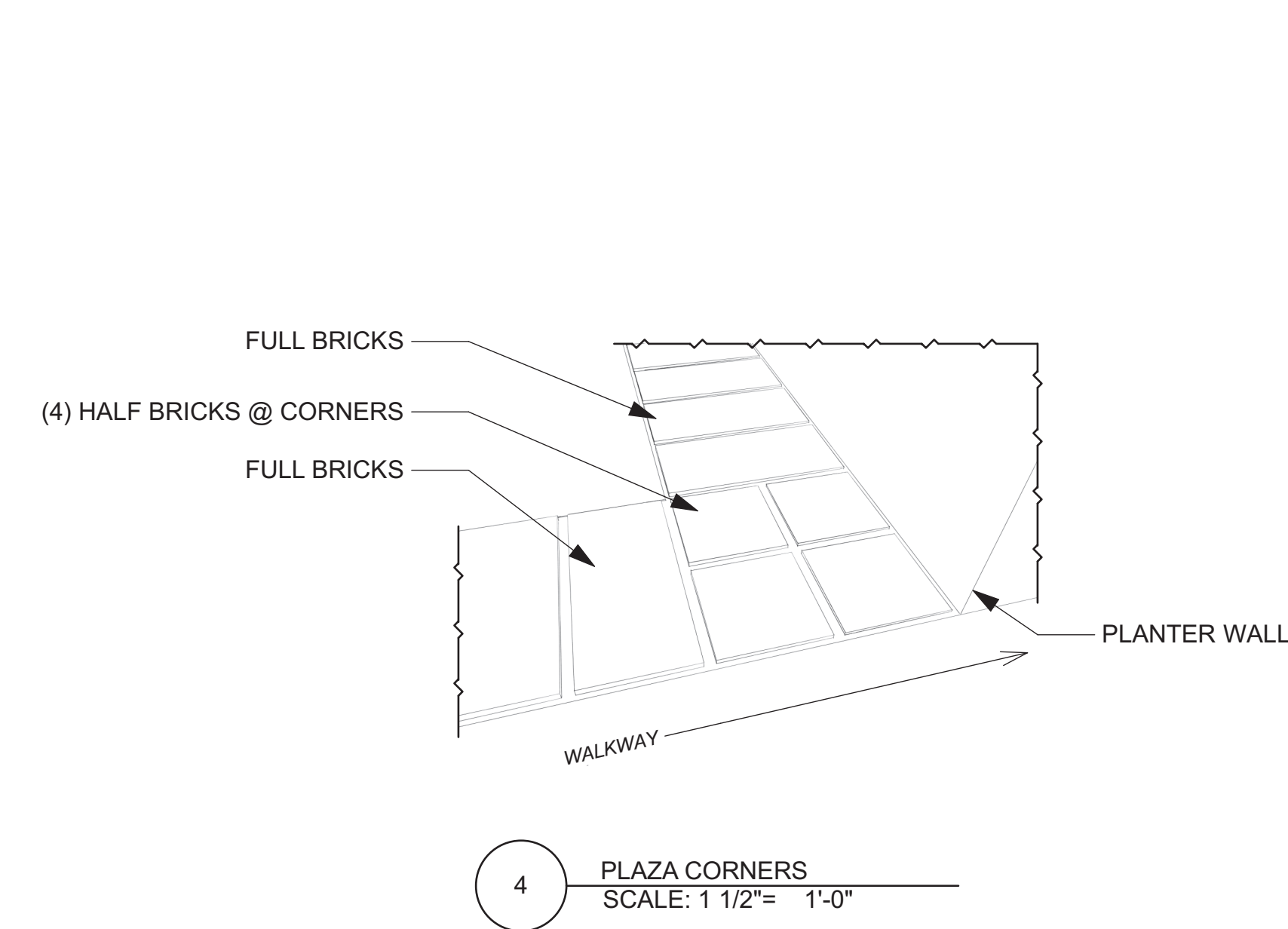
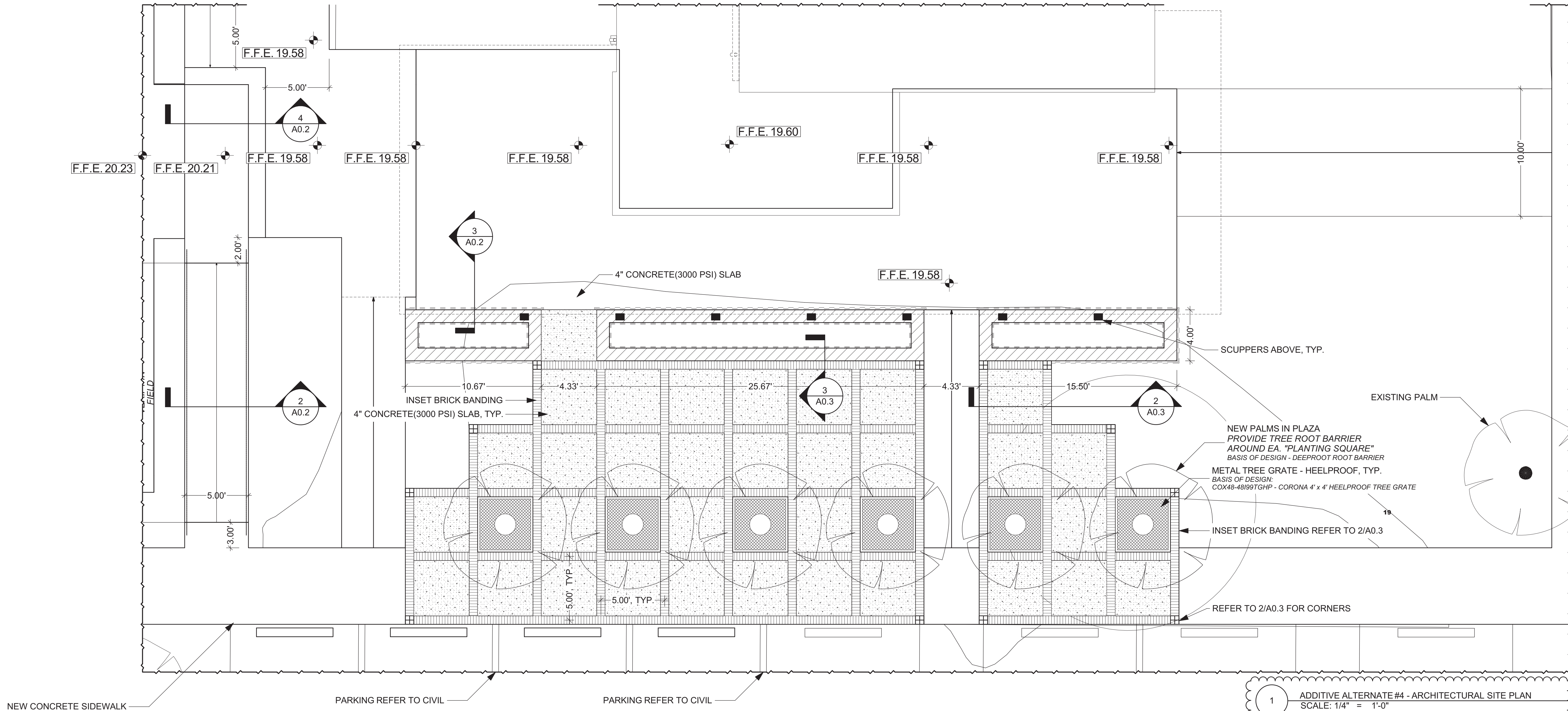
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ADDITIVE ALTERNATE #4

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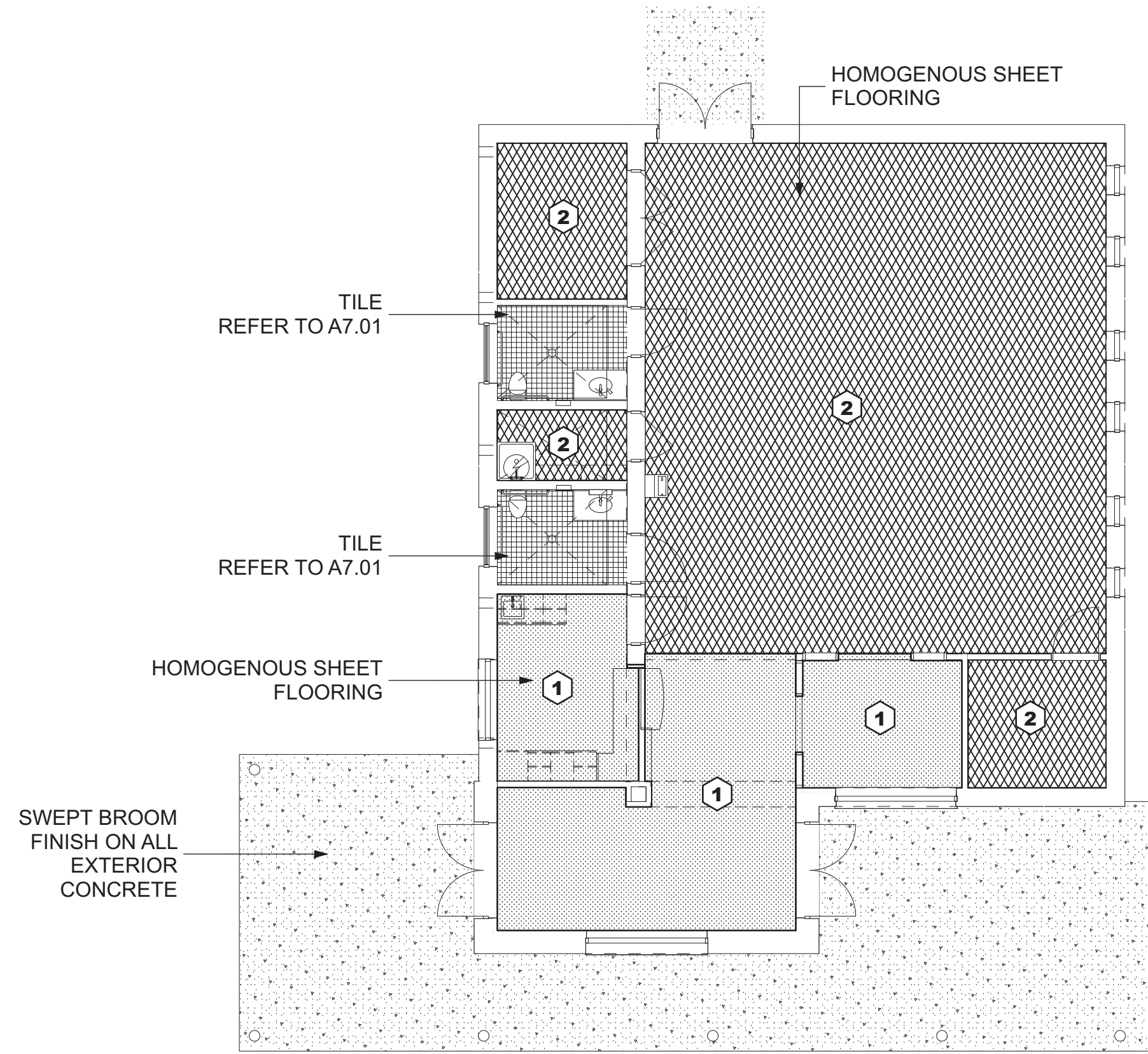
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DIMENSIONS ARE TO FACE OF MASONRY, FACE OF FRAMING STUDS, OR MASONRY OPENING.



2 FLOOR PATTERN  
SCALE: 1/8" = 1'-0"

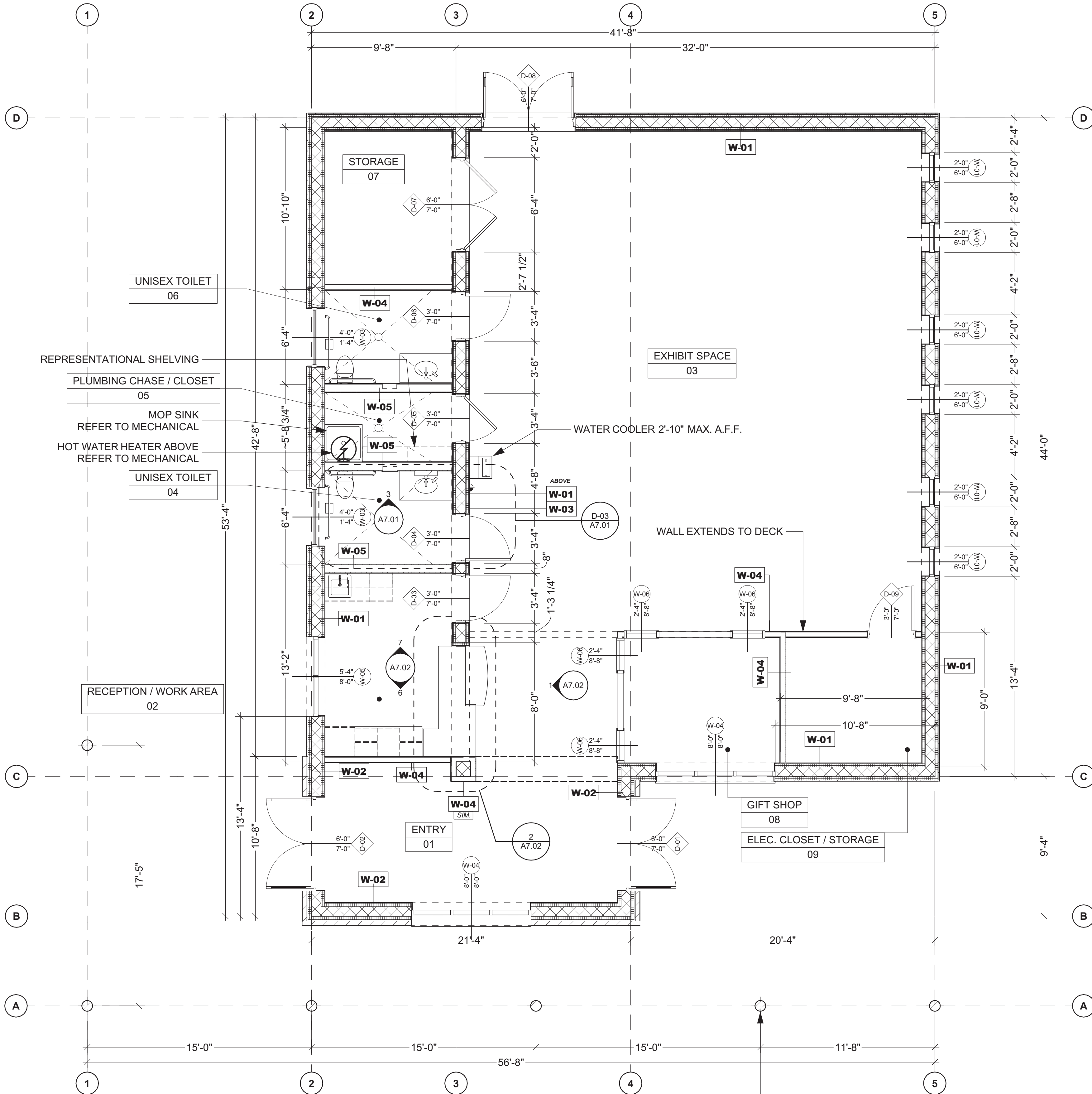
REFER TO A2.01 FOR FINISH SCHEDULE

#### EXTERIOR WALL TYPE LEGEND

W-01		10	1	STANDARD 8X8X816 CONCRETE MASONRY UNIT
		9	2	(LIQUID/FLUID)-APPLIED VAPOR-PERMEABLE WATERPROOFING
		8	3	5/16" DRAINAGE MAT (& METAL INSECT SCREENING; REFER TO DETAILS)
		7	4	2 1/2" FIBERGLASS-FACED POLYISOCYANURATE RIGID INSULATION
		6	5	ASPHALT-PAPER-BACKED SELF-FURRING METAL LATH
W-02		5	6	CORROSIVE-RESISTANT CONCRETE MASONRY FASTENERS WITH 2" PLASTIC INSULATION RETENTION WASHERS
		4	7	3-COAT STUCCO WITH ELASTOMERIC ACRYLIC COATING
		3	8	2 1/2" RIGID FIBERGLASS INSULATION (SEMI-PERMEABLE RIGID INSULATION)
		2	9	2 1/2" METAL ZEE FURRING
		1	10	5/8" PAINTED GYPSUM BOARD (MOLD&MOISTURE RESISTANT BOARD IN WET LOCATIONS)
		12	11	CORROSIVE-RESISTANT CONCRETE MASONRY FASTENERS WITH INTEGRAL MASONRY VENEER ATTACHMENT & MASONRY VENEER ANCHORS (GALV. OR S.S.) & 2" PLASTIC INSULATION RETENTION WASHERS
		11	12	BRICK MASONRY VENEER

#### INTERIOR WALL TYPE LEGEND

W-03		5	1	3 5/8" METAL STUDS, 16" O.C.
		4	2	5/8" PAINTED GYPSUM BOARD
		3	3	MINERAL WOOL ACOUSTICAL INSULATION
		2	4	6" METAL STUDS, 16" O.C.
		1	5	5/8" MOLD & MOISTURE RESISTANT PAINTED GYPSUM BOARD
W-04		5	6	2 1/2" METAL ZEE FURRING
		4	7	2 1/2" RIGID FIBERGLASS INSULATION (SEMI-PERMEABLE RIGID INSULATION)
		3	8	STANDARD 8X8X816 CONCRETE MASONRY UNIT
W-05		2	9	1/4" CEMENT BACKER BOARD
		1	10	WALL TILE, MORTAR, GROUT
W-05		10		



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

ROUND METAL COLUMN W/ DECORATIVE BASE[A5.03], TYP.  
REFER TO STRUCTURAL

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FLOOR PLAN

#### REVISIONS

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#### DRAWING

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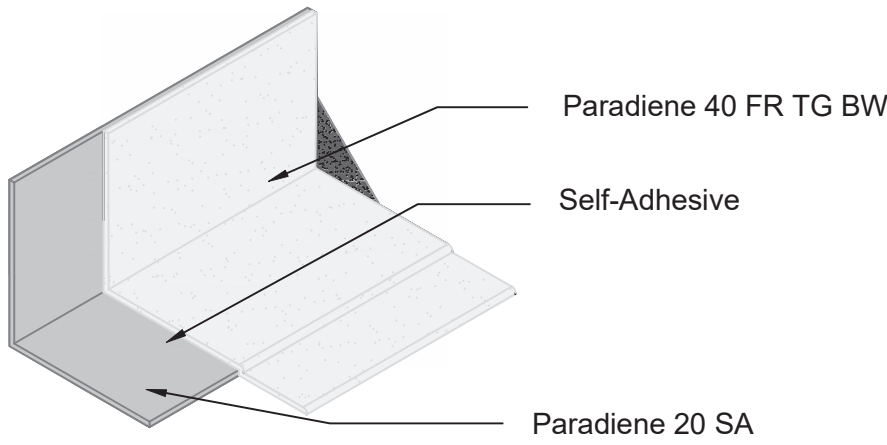
**GENERAL NOTES:**  
CMU WALL OUTLINES SHOWN - NO WALL FINISH OR COPING IS SHOWN  
ROOF CANTS NOT SHOWN  
SLOPES ARE ACHIEVED THROUGH TAPERED INSULATION  
ROOF SLOPES ARE APPROXIMATE AND VARIATIONS MAY NEED TO OCCUR.  
MINIMUM ROOF SLOPES SHALL BE IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.

**SELECTED ROOFING SYSTEM IS THE BASIS OF DESIGN ONLY AND NOT A PRESCRIPTIVE DESIGNATION OF MANUFACTUER OR ROOFING SYSTEM. CONTRACTOR SHALL SUBMIT PRODUCT INFORMATION & SHOP DRAWINGS FOR SELECTED ROOF SYSTEM.**

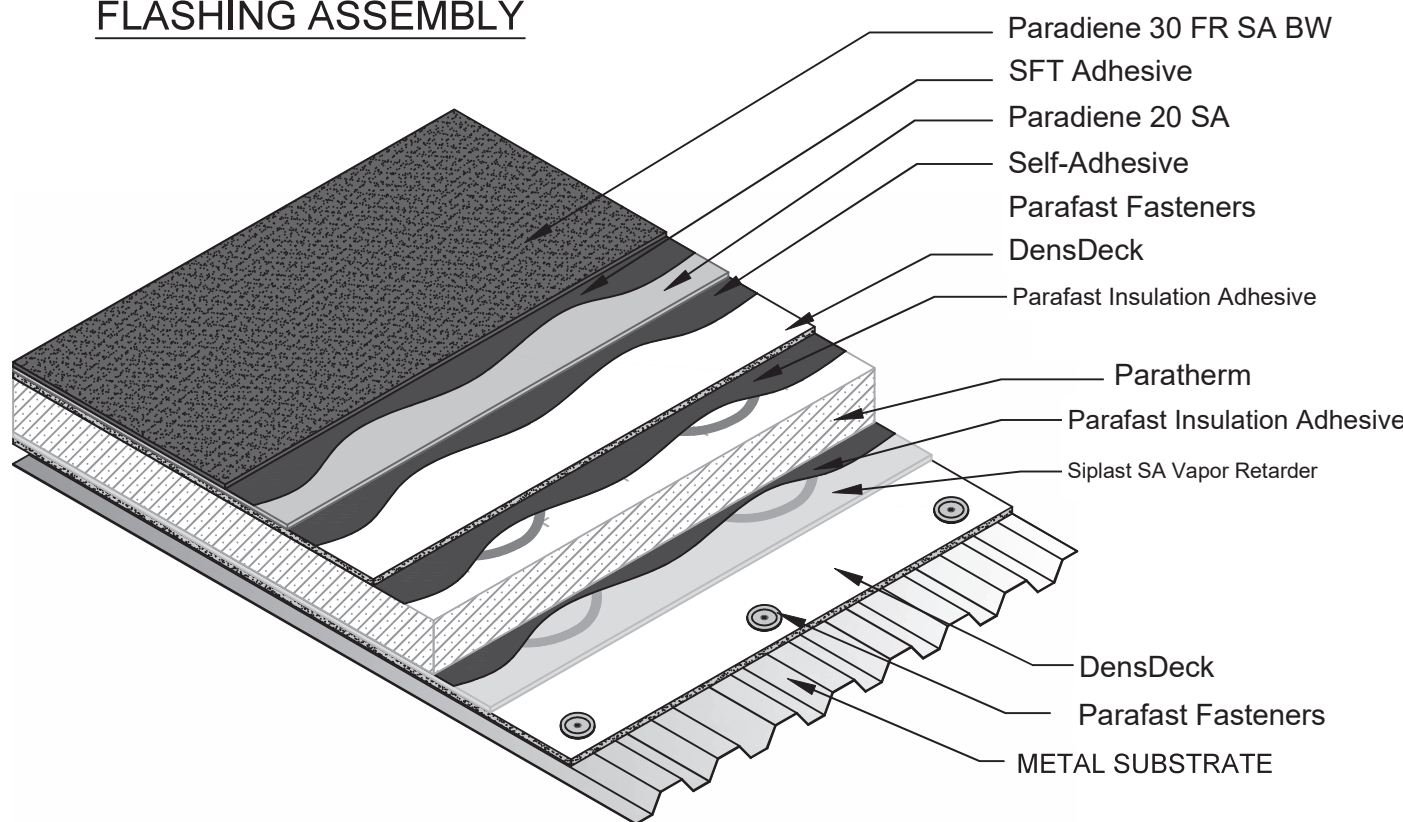
PROJECT: APALACHICOLA A-A HISTORY MUSEUM

\*CLICK ON THE LINKS BELOW FOR MORE INFORMATION\*

- [SPECIFICATION](#)
- [DETAILS](#)
- [PRODUCT DATA SHEETS](#)



FLASHING ASSEMBLY

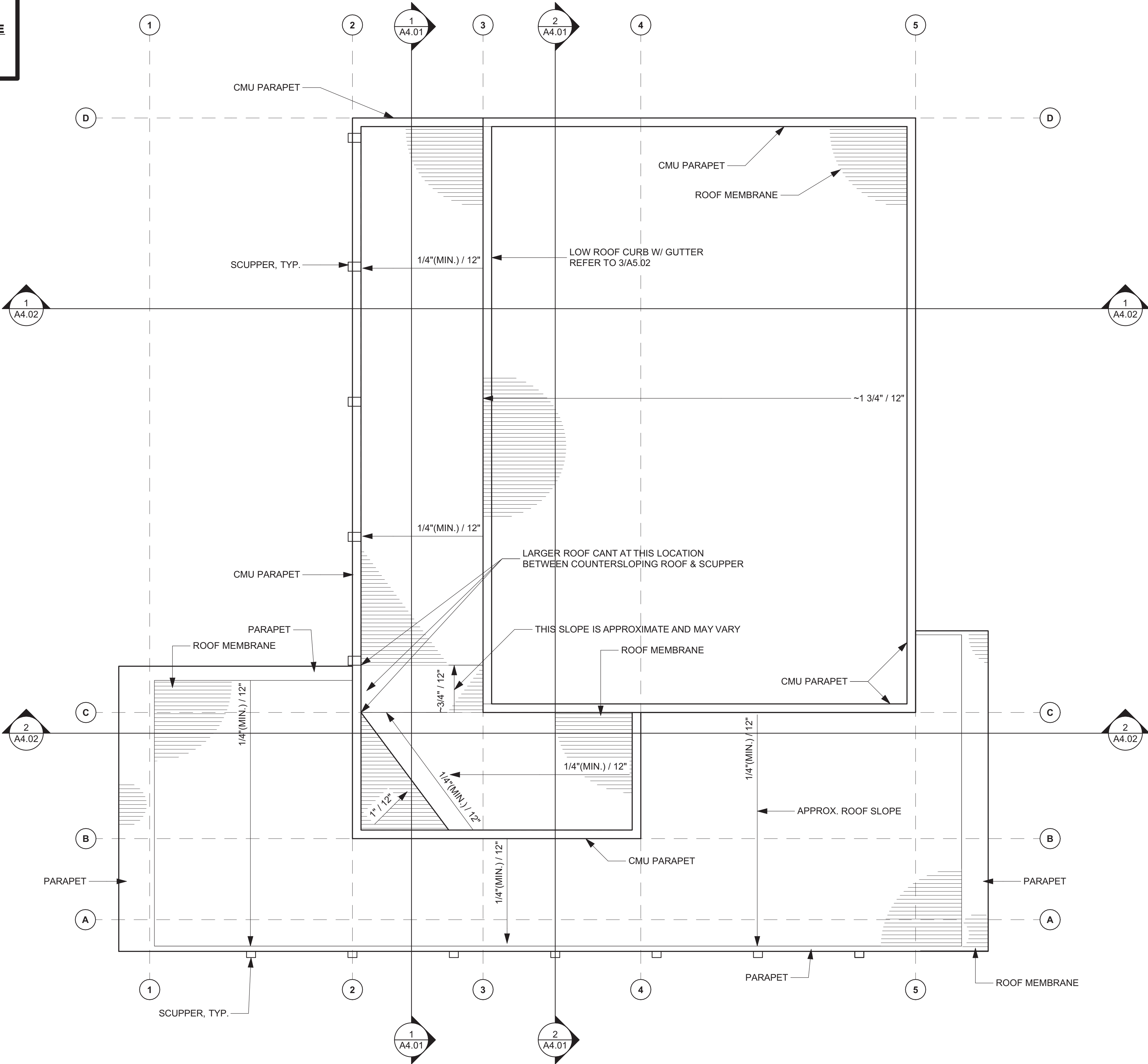


ROOF ASSEMBLY

1. SIPLAST STANDARD SPECIFICATIONS AND REQUIREMENTS SHALL APPLY IN ADDITION TO THIS DRAWING.  
2. SIPLAST RECOMMENDS THAT ALL PRACTICES PERTAINING TO INDUSTRY STANDARD TORCH SAFETY REQUIREMENTS AND GUIDELINES BE FOLLOWED. THIS INCLUDES PERFORMING A FIRE WATCH FOLLOWING ANY TORCH APPLICATIONS. ALWAYS HAVE APPROVED FIRE EXTINGUISHING EQUIPMENT NEARBY WHEN USING A TORCH.  
3. PRO BASE SERIES BASE PLIES ARE REQUIRED FOR ALL SELF ADHERED FINISH PLIES.

\*USE ADOBE READER TO TURN OFF/ON LAYERS THAT DO NOT APPLY\*

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2

BASIS OF DESIGN: ROOF ASSEMBLY SPEC PLATE

1

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

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**ROOF PLAN**

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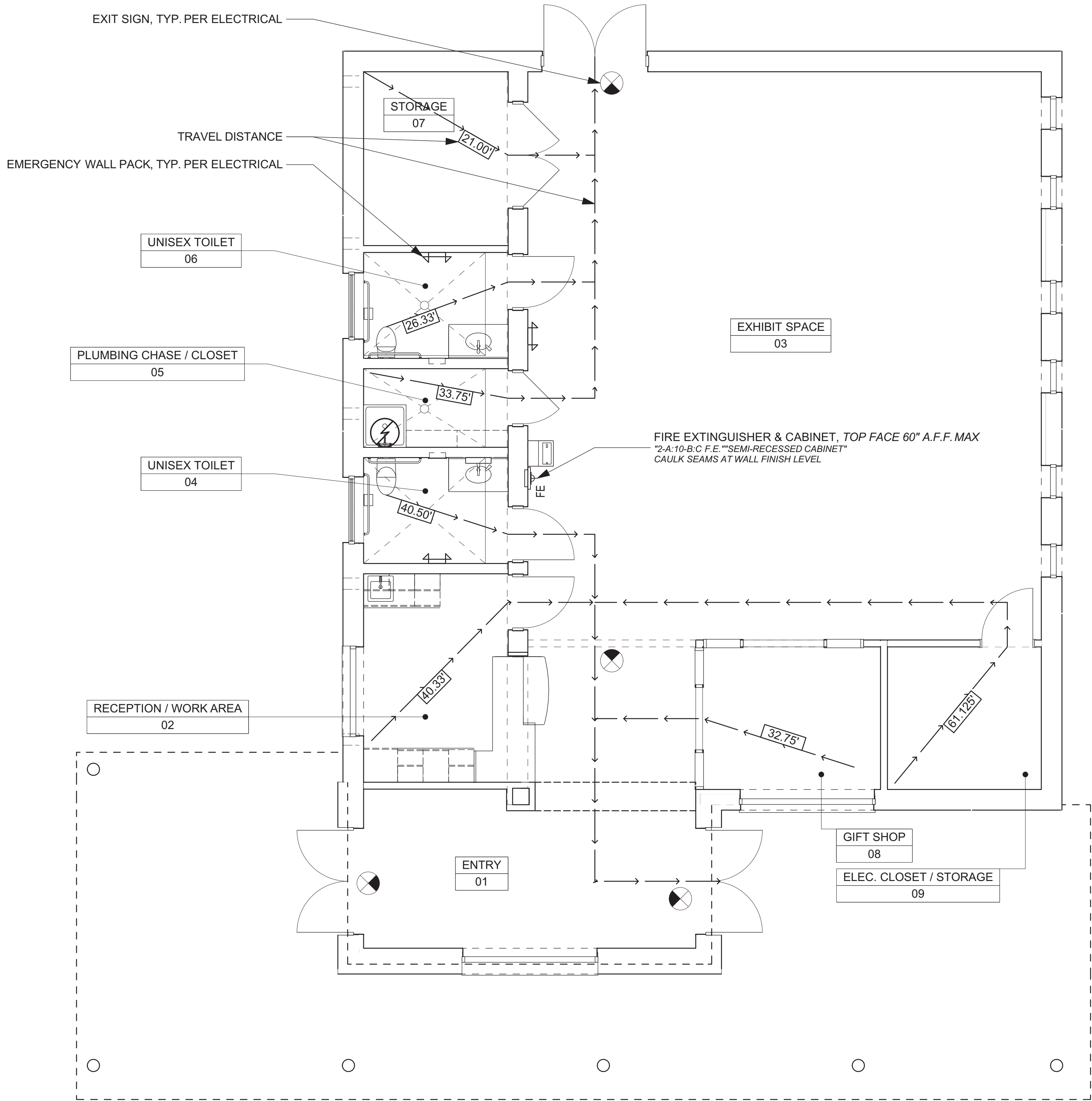
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1 GROUND LEVEL LIFE SAFETY PLAN  
SCALE: 1/4" = 1'-0"

LIFE SAFETY PLAN SYMBOL LEGEND	
<div>ROOM 101</div>	ROOM NAME / ROOM NUMBER
<div>→ →</div>	PATH OF EGRESS TRAVEL. ARROW INDICATES DIRECTION OF TRAVEL
<div>→ XX'X"</div>	REMOTE TRAVEL DISTANCE
<div>FE</div>	FIRE EXTINGUISHER COORDINATE WITH FLOOR PLANS
<div>4</div>	EMERGENCY WALL-PACK REFER TO ELECTRICAL

EMERGENCY EGRESS INFORMATION

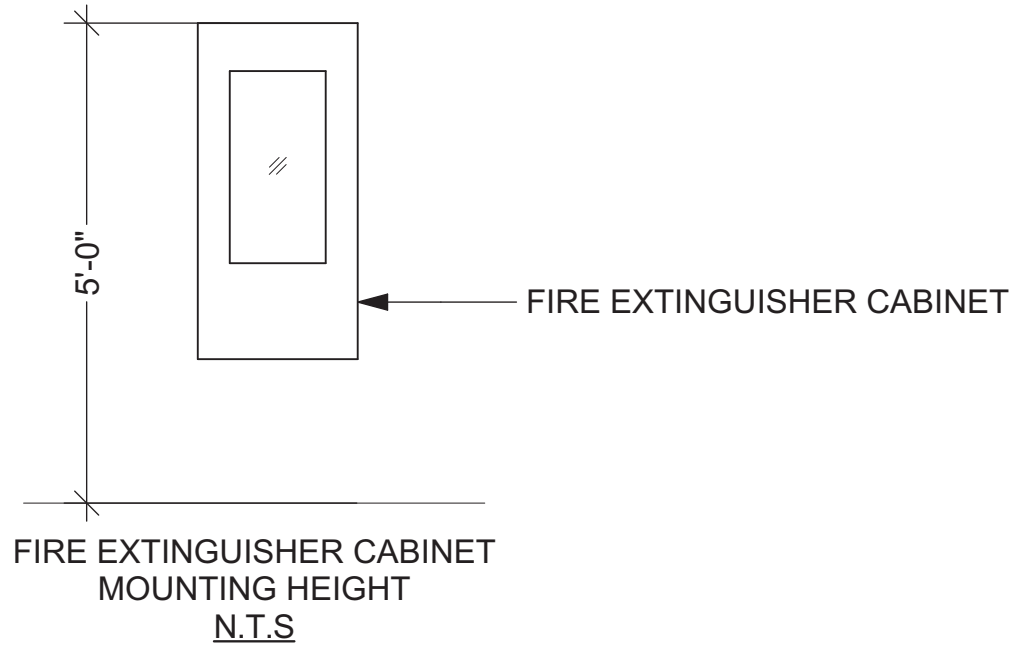
REQUIRED EMERGENCY EGRESS CAPACITY	0.2 INCHES
> EGRESS WIDTH PER PERSON (AT DOORS)(NFPA 101 TABLE 7.3.3.1):	0.3 INCHES
> EGRESS WIDTH PER PERSON (AT STAIRWAYS)(NFPA 101 TABLE 7.3.3.1):	44 INCHES
MINIMUM CORRIDOR WIDTH FOR EGRESS:	
>MINIMUM CLEAR OPENING OF EXIT DOOR:	34 INCHES
>MINIMUM NUMBER OF EXITS PER FLOOR:	2
>MINIMUM CLEAR WIDTH FOR HANDICAP ACCESSIBLE EGRESS:	36 INCHES
PROVIDED EMERGENCY EGRESS	0.3
>NUMBER OF EXITS:	3
>SINGLE DOOR OPENING CLEAR WIDTH: (36") 36" / 0.2" =	180 PERSON CAPACITY
>DOUBLE DOOR OPENING CLEAR WIDTH: (60") 60" / 0.2" =	300 PERSON CAPACITY

NOTE: ALL EGRESS DOORS SHALL BE PROVIDED WITH PANIC EXIT DEVICES

TRAVEL DISTANCE REQUIREMENTS	
>MAXIMUM TRAVEL DISTANCE TO EXIT: (NON-SPRINKLED):	200 FEET
>ACTUAL MAXIMUM TRAVEL DISTANCE:	APPROX. 61'-2"

**FLOOR ELEVATION NOTE**  
THE ELEVATION OF THE FLOOR SURFACE ON BOTH SIDES OF A DOOR SHALL NOT VARY BY MORE THAN 1/2 INCH FOR A DISTANCE NOT LESS THAN THE WIDTH OF THE WIDEST LEAF. NFPA 101, SECTION 7.2.1.3.1 ABD 7.2.1.3.2, FLORIDA 7TH ED.  
  
VERTICAL CHANGE IN ELEVATION OF ALL ACCESSIBLE ROUTES SHALL NOT EXCEED MORE THAN 1/4 INCH (F.B.C.-ACCESSIBILITY SECTION 303.1 & 303.2); 1/2" WITH A BEVEL (F.B.C.-ACCESSIBILITY SECTION 303.3).  
  
ANY VERTICAL CHANGE ON AN ACCESSIBLE ROUTE MORE THAN 1/2 INCH SHALL BE RAMPED PER F.B.C.-ACCESSIBILITY SECTION 303.4  
  
ALL THRESHOLDS AT DOORWAYS OR ACCESSIBLE ROUTES SHALL NOT EXCEED 1/2 INCH. F.B.C.-ACCESSIBILITY SECTION 404.2.5

**FIRE PROTECTION NOTES**  
1. FIRE EXTINGUISHERS SHALL BE UL RATED 2-A:10-B-C FIRE EXTINGUISHER IN SEMI-RECESSED CABINETS, UNLESS OTHERWISE NOTED.  
1 FIRE EXTINGUISHER PER 3000 S.F.  
2107 / 3000 = 1 FIRE EXTINGUISHER REQUIRED.  
REFER TO PLANS FOR LOCATION.  
PLACE AS INDICATED OR ALONG PATH OF TRAVEL DISPERSED EVENLY ACCROSS BUILDING.



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Design

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LIFE SAFETY INFORMATION & PLAN

REVISIONS

10

DATE

DESCRIPTION

10

DATE

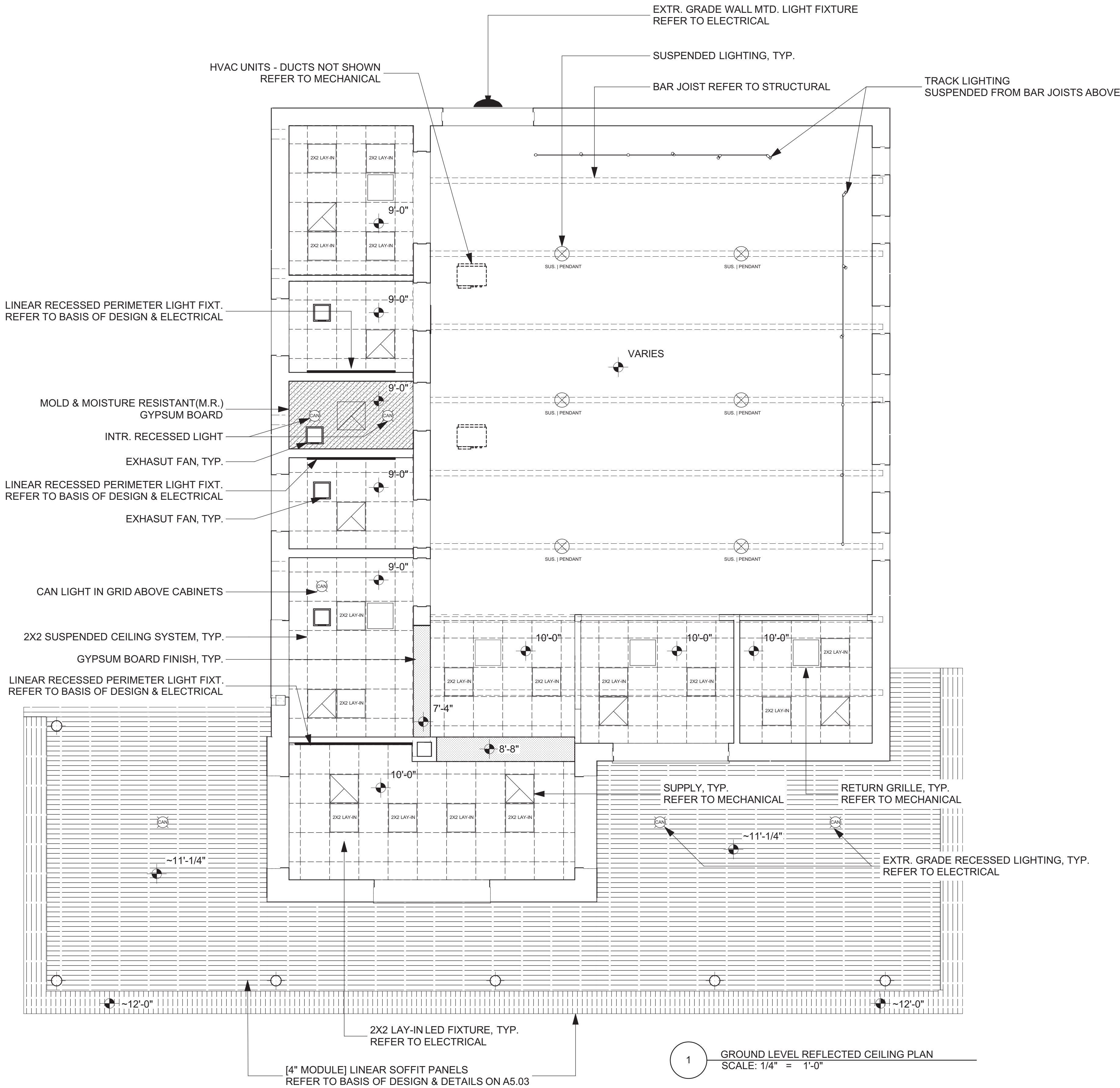
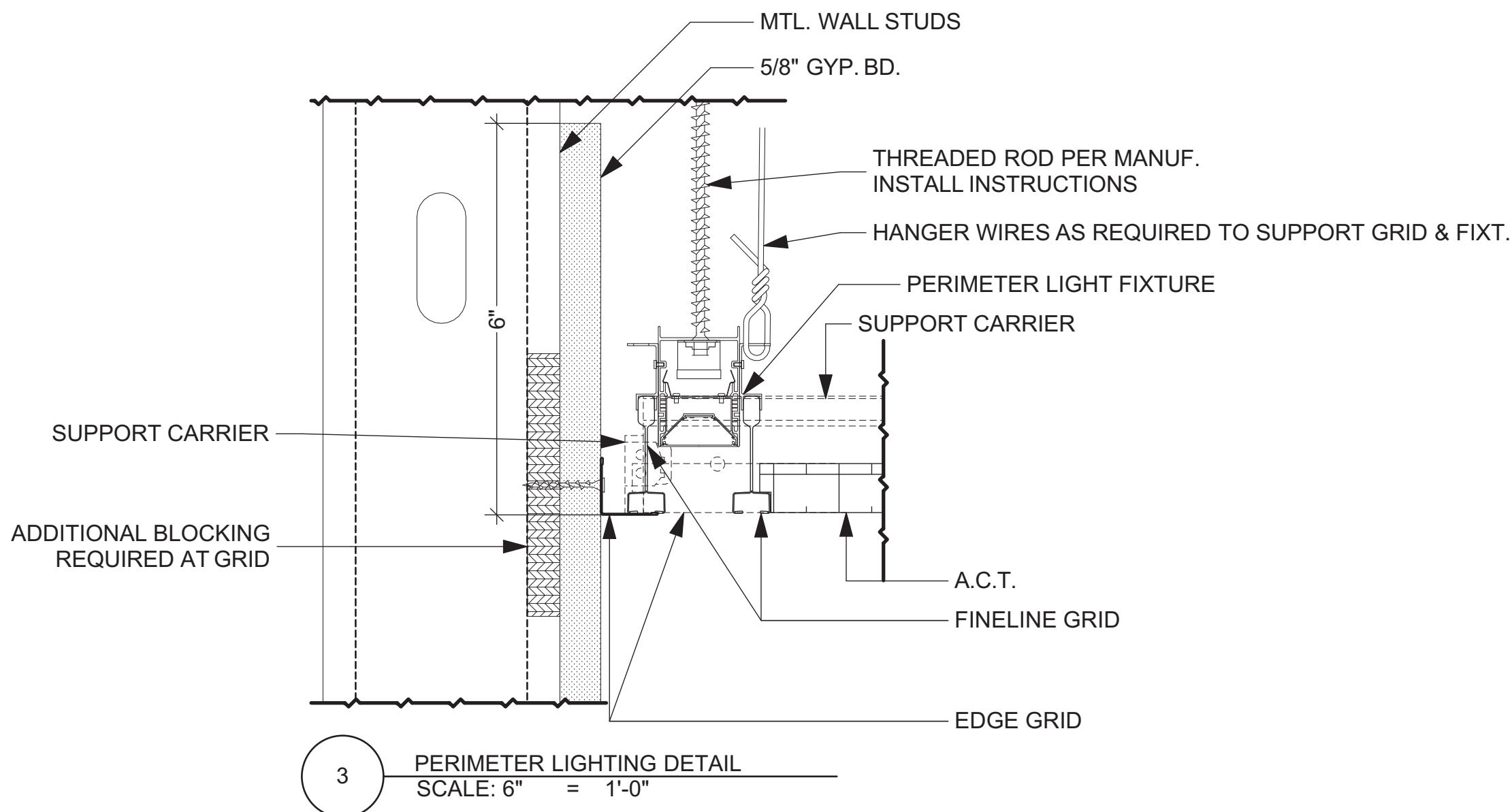
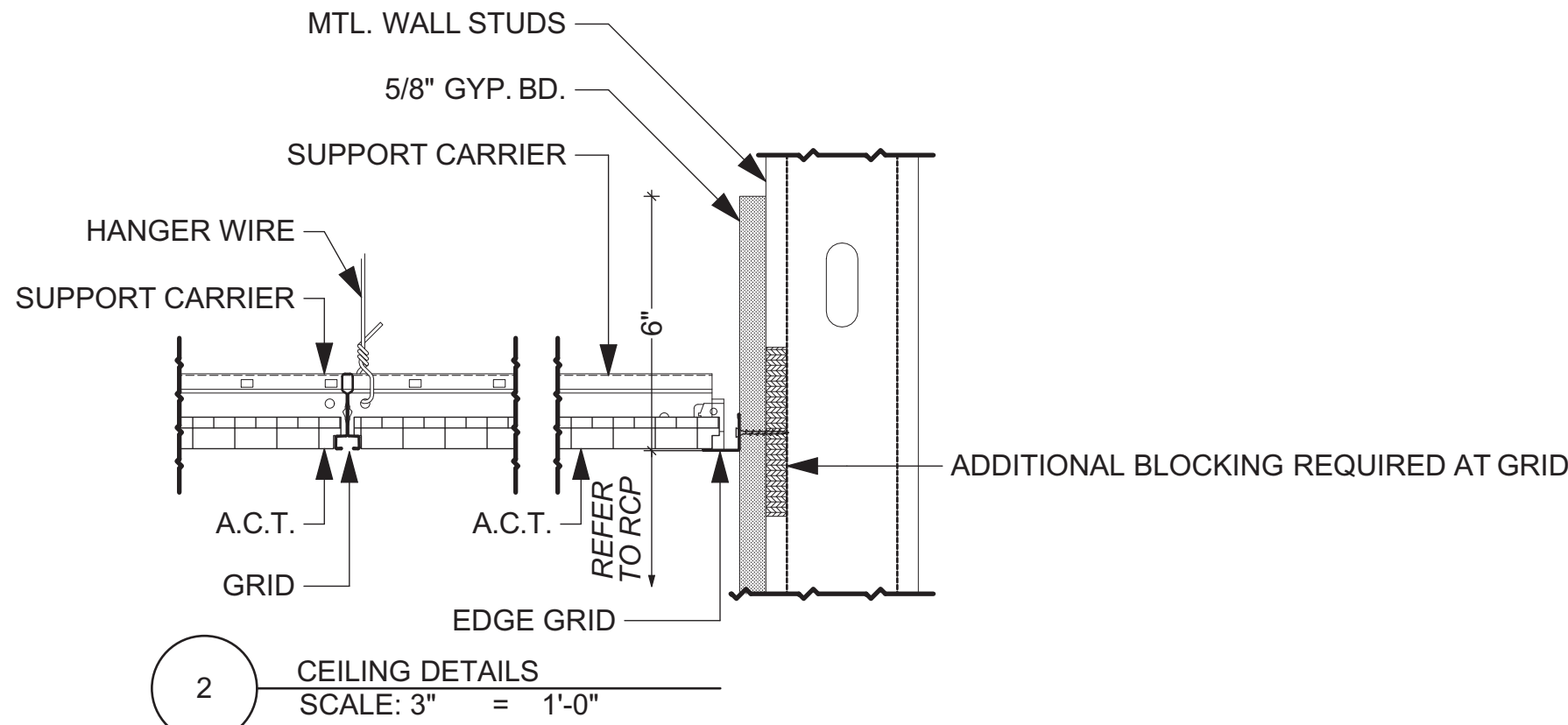
DESCRIPTION



FINISH SCHEDULE								
ROOM		APPROX. S.F.	FLOORING	WALLS		BASE	CLG.	NOTES
NUMBER	NAME			ACCENT WALL	WALL FINISH			
01	ENTRY	275.30	HOM1		FP1	B1	ACT1	
02	RECEPTION / WORK AREA	108.15	HOM1		FP1	B1	ACT1	
03	EXHIBIT SPACE	1,009.59	HOM2		FP1	B1	EXP	PAINT CEILING, ROOF STRUCTURE, DUCTWORK, ETC. FLAT BLACK - MATTE
04	UNISEX TOILET	56.76	FT1; FT2; AT1; AT2; AT3		FP1	B2	ACT1	TILE WAINSCOT FP1 ABOVE; REFER A7.01
05	PLUMBING CHASE / CLOSET	43.14	HOM2		FP1	B1	M.R. GYP.	PAINT CEILING FP1
06	UNISEX TOILET	56.85	FT1; FT2; AT1; AT2; AT3		FP1	B2	ACT1	TILE WAINSCOT FP1 ABOVE; REFER A7.01
07	STORAGE	94.23	HOM2		FP1	B1	ACT1	
08	GIFT SHOP	87.77	HOM1		FP1	B1	ACT1	
09	ELEC. CLOSET / STORAGE	77.27	HOM2		FP1	B1	ACT1	

**GENERAL FINISH NOTES:**  
DOOR FRAMES SHALL HAVE AN INTEGRAL COLOR(BLACK) OR PAINTED FP2.  
A SUBSTITUTION OF "FLASH COVING" PROVIDED BY THE HOMOGENOUS SHEET FLOORING IS AN ACCEPTABLE SUBSTITUTION FOR WALL BASE (B1) IN THE PLUMBING CHASE & STORAGE ROOMS ONLY.

FP1	SW7637 SHERWIN WILLIAMS - OYSTER WHITE
FP2	SW6258 SHERWIN WILLIAMS - TRICORN BLACK
FT1	AMERICAN OLEANS - UNGLAZED MOSAICS - 1" - SQUARE - LIGHT SMOKE(A43)
FT2	AMERICAN OLEANS - UNGLAZED MOSAICS - 1" - HEX - LIGHT SMOKE(A43)
AT1	AMERICAN OLEANS - UNGLAZED MOSAICS - 1" - SQUARE - BLACK(A34)
AT2	AMERICAN OLEANS - UNGLAZED MOSAICS - 1" - SQUARE - ICE WHITE(A25)
AT3	AMERICAN OLEANS - UNGLAZED MOSAICS - 1" - HEX - ICE WHITE(A25)
B1	FLEXCO FLOORING - BASE SCULPTURES - PROFILE 'BLISS' - 'DAHLIA BLACK' COLOR
B2	AMERICAN OLEANS - UNGLAZED MOSAICS - COVE BASE - ICE WHITE(A25)
HOM1	ARMSTRONG FLOORING - MEDINTONE SERIES - <i>QUIET NIGHT</i> [BLUE]
HOM2	ARMSTRONG FLOORING - MEDINTONE SERIES - <i>RAVEN</i> [BLACK]
ACT1	USG ACOUSTICAL PANELS - <i>SANDRIFT</i> - WHITE - FINELINE GRID SYSTEM
L1	WILSONART STANDARD LAMINATE - DESIGNER WHITE
L2	WILSONART STANDARD LAMINATE - BLACK
L3	WILSONART PREMIUM LAMINATE - COLUMBIAN WALNUT



CONTRACTOR RESPONSIBLE FOR ANY ADDITIONAL BLOCKING OR FRAMING REQUIRED TO INSTALL LIGHT FIXTURES

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**CITY OF APALACHICOLA**  
**AFRICAN-AMERICAN CULTURAL HISTORY MUSEUM**

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REFLECTED CEILING PLAN

REVISIONS		
ID	DATE	DESCRIPTION

DATE

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JOB NO.

01/29/2025

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BDH

HDGA 2314

**SIGNATURE & SEAL**

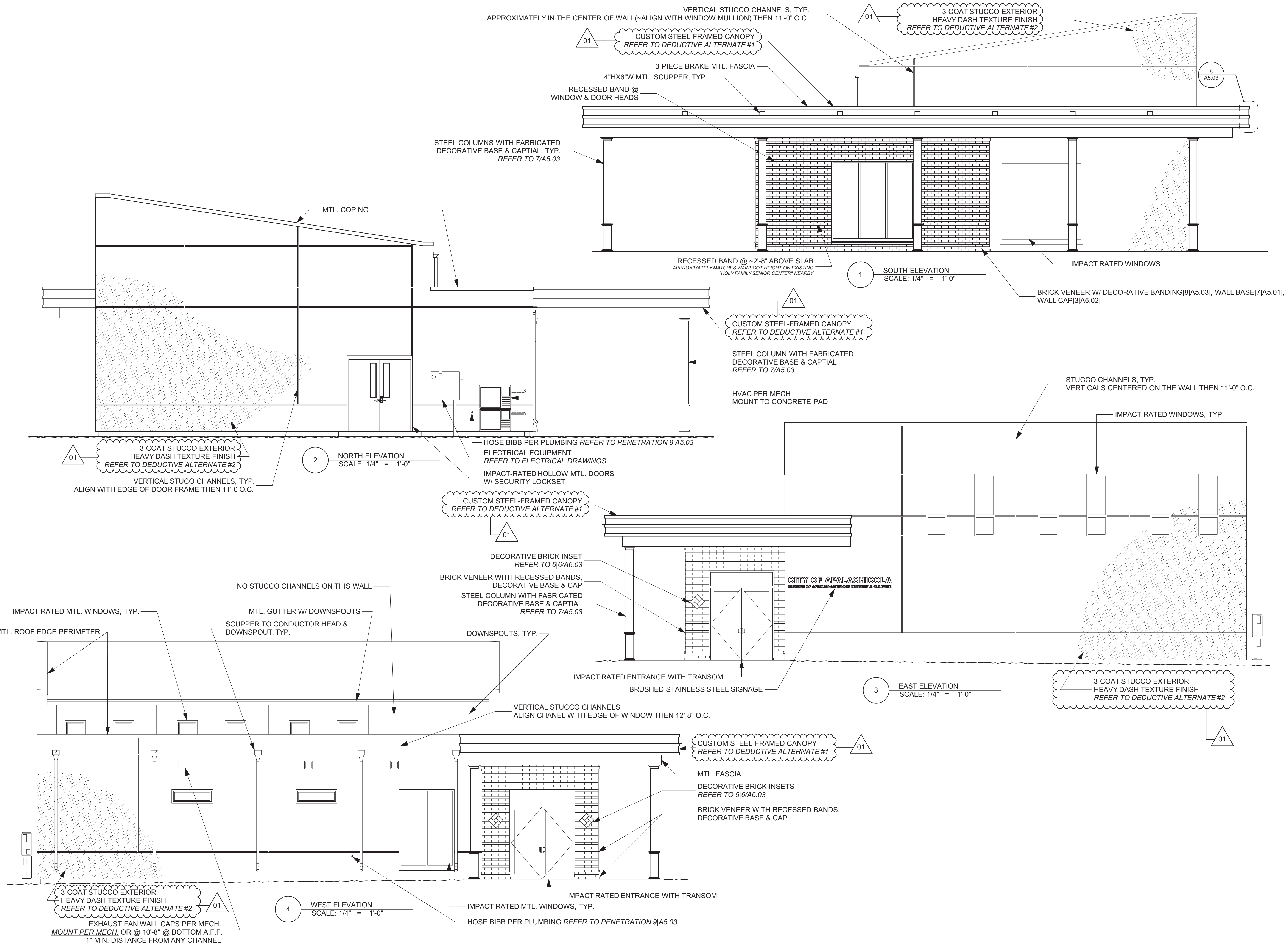
STATE OF FLORIDA  
BRET D. HAMMOND  
ARCHITECT  
AR016903

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Hammond  
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**A2.01**





**REVISIONS**

ID	DATE	DESCRIPTION
1	05/30/2025	REBID DOUCMENTS

**DATE** ■ 01/29/2025  
**DRAWN** ■ IWP  
**CHECKED** ■ BDH  
**JOB NO.** ■ HDGA 2314

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**REVISIONS**

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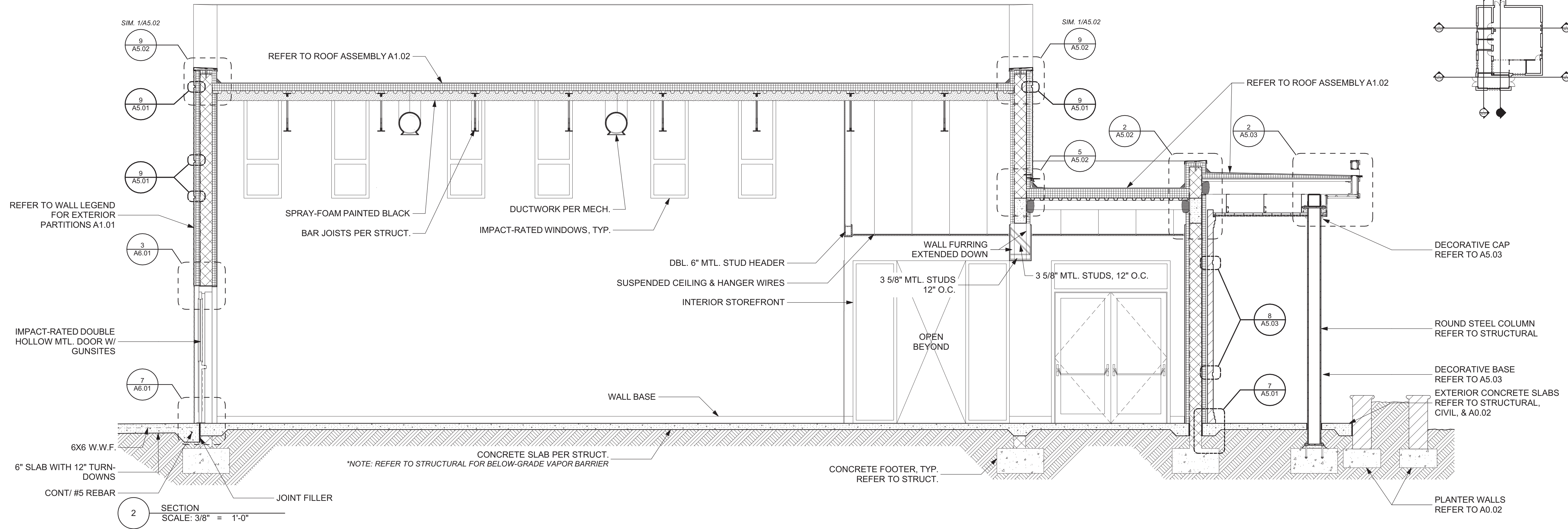
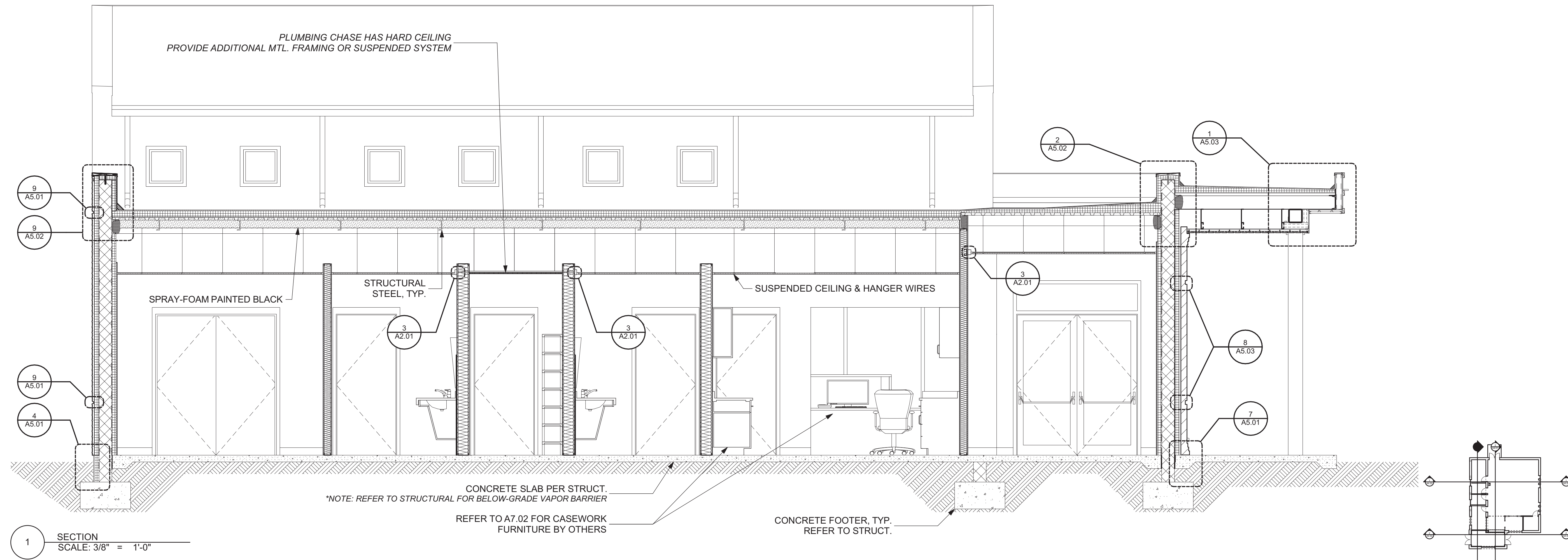
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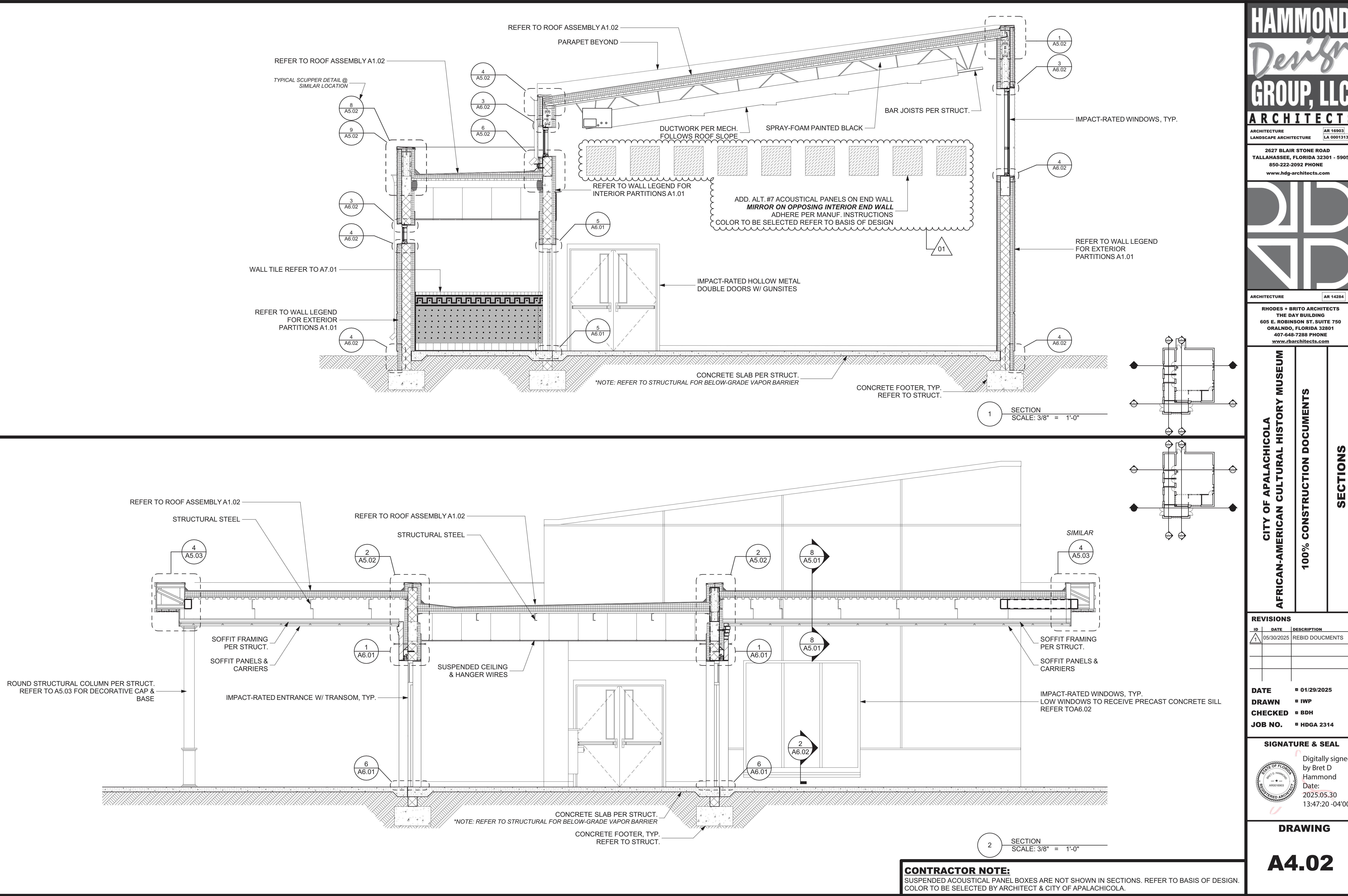
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**A4.01**



**CONTRACTOR NOTE:**  
SUSPENDED ACOUSTICAL PANEL BOXES ARE NOT SHOWN IN SECTIONS. REFER TO BASIS OF DESIGN.  
COLOR TO BE SELECTED BY ARCHITECT & CITY OF APALACHICOLA.





ID	DATE	DESCRIPTION
1	05/30/2025	REBID DOUCMENTS

**DATE** 01/29/2025  
**DRAWN** IWP  
**CHECKED** BDH  
**JOB NO.** HDGA 2314

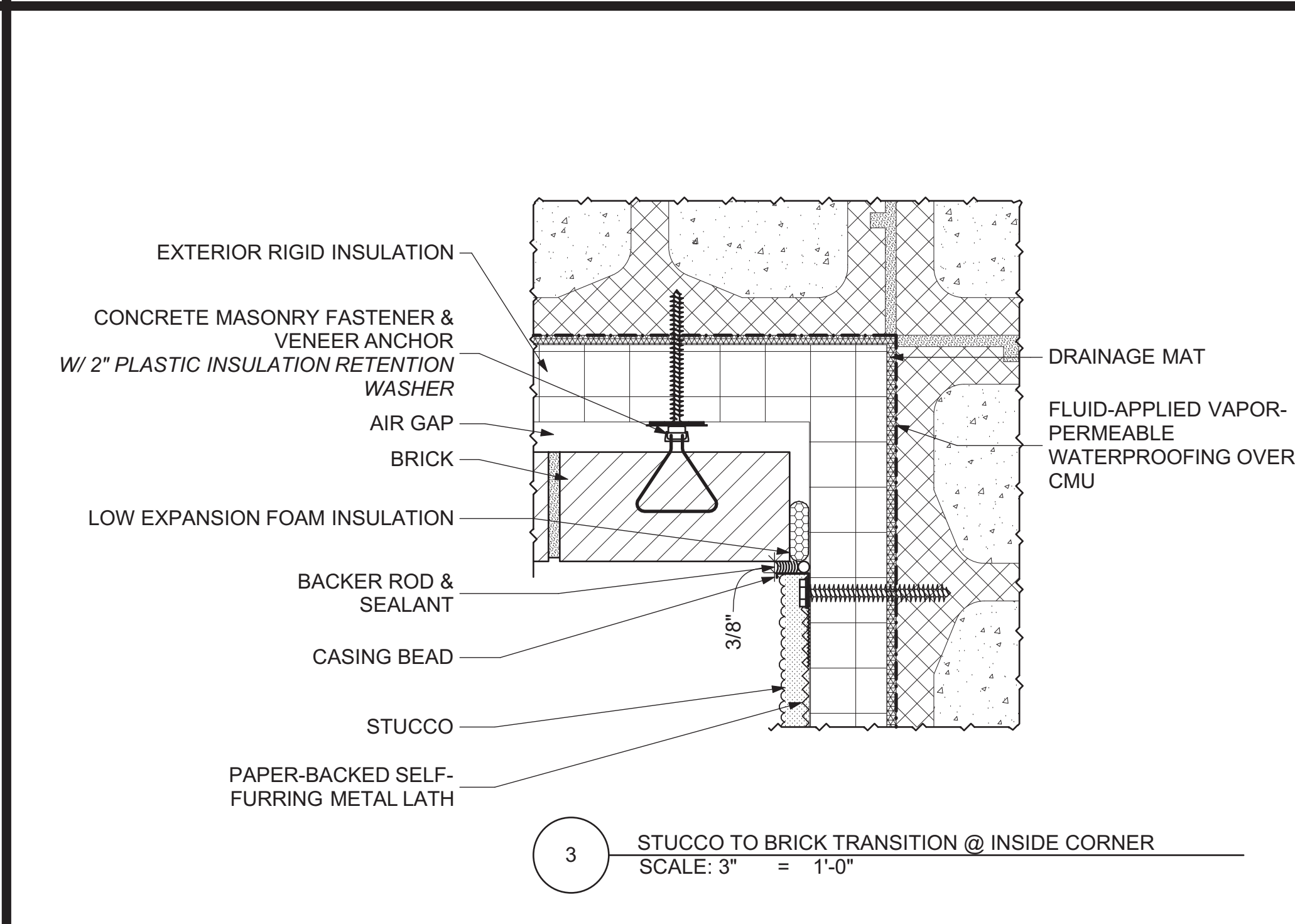
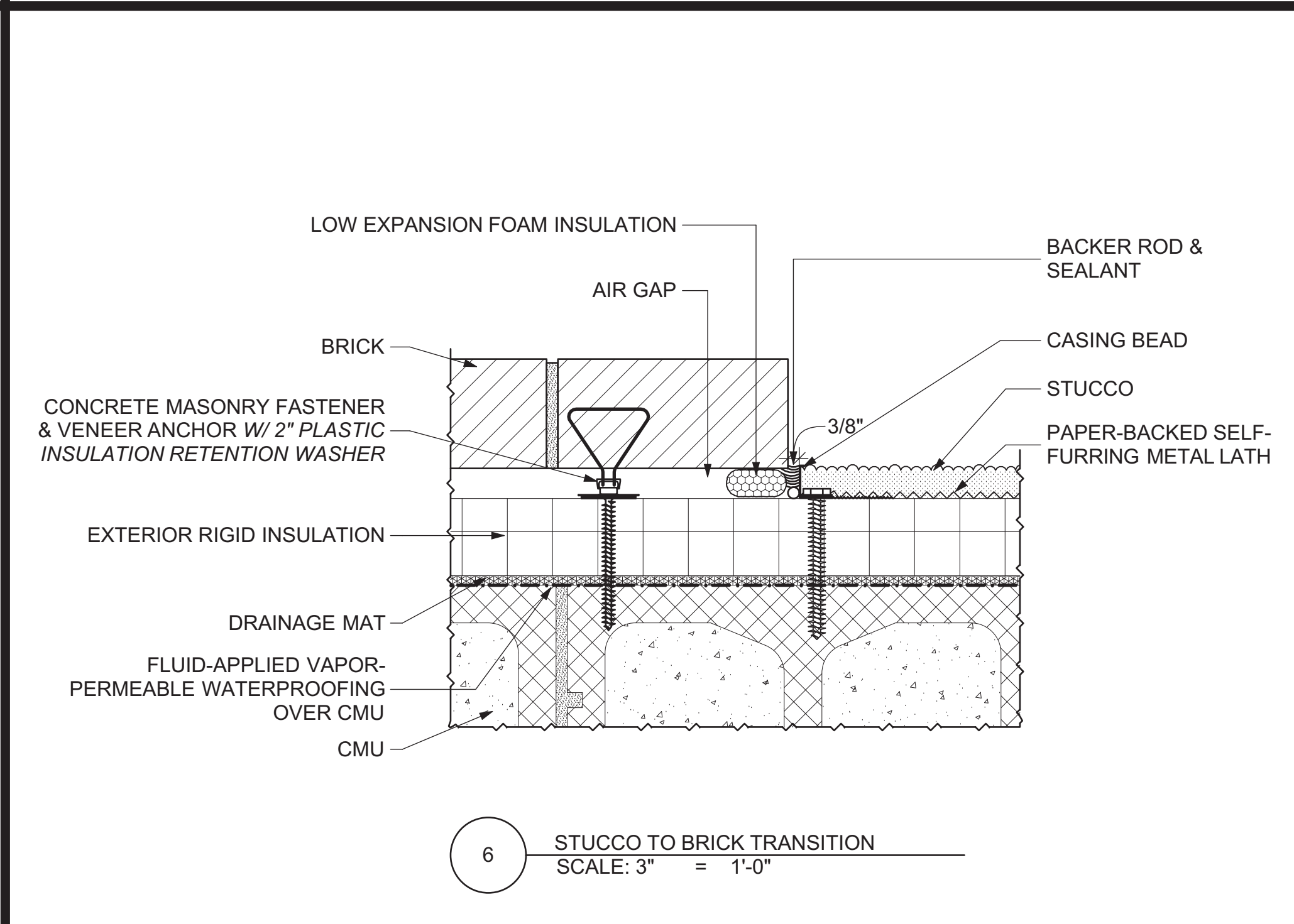
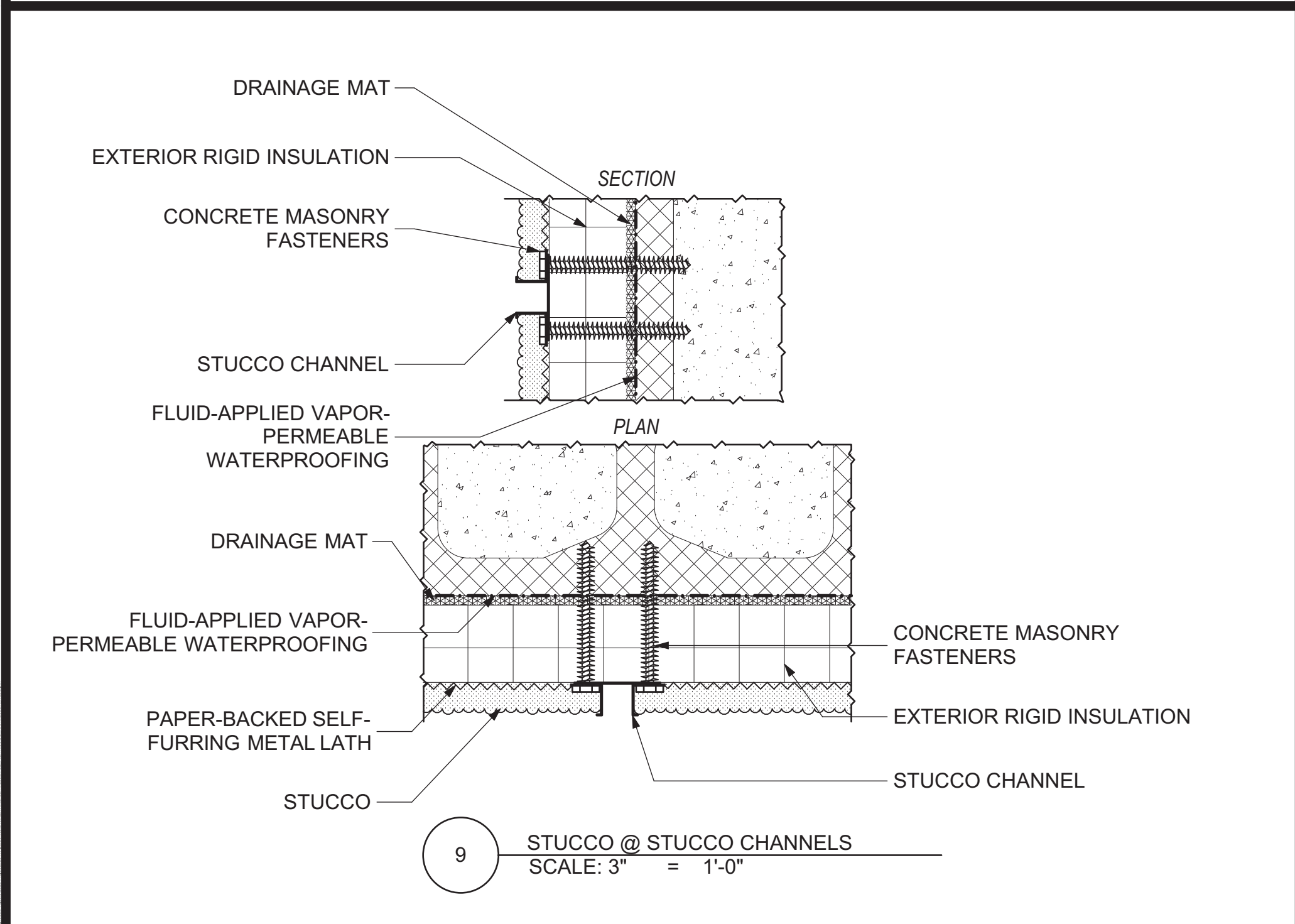
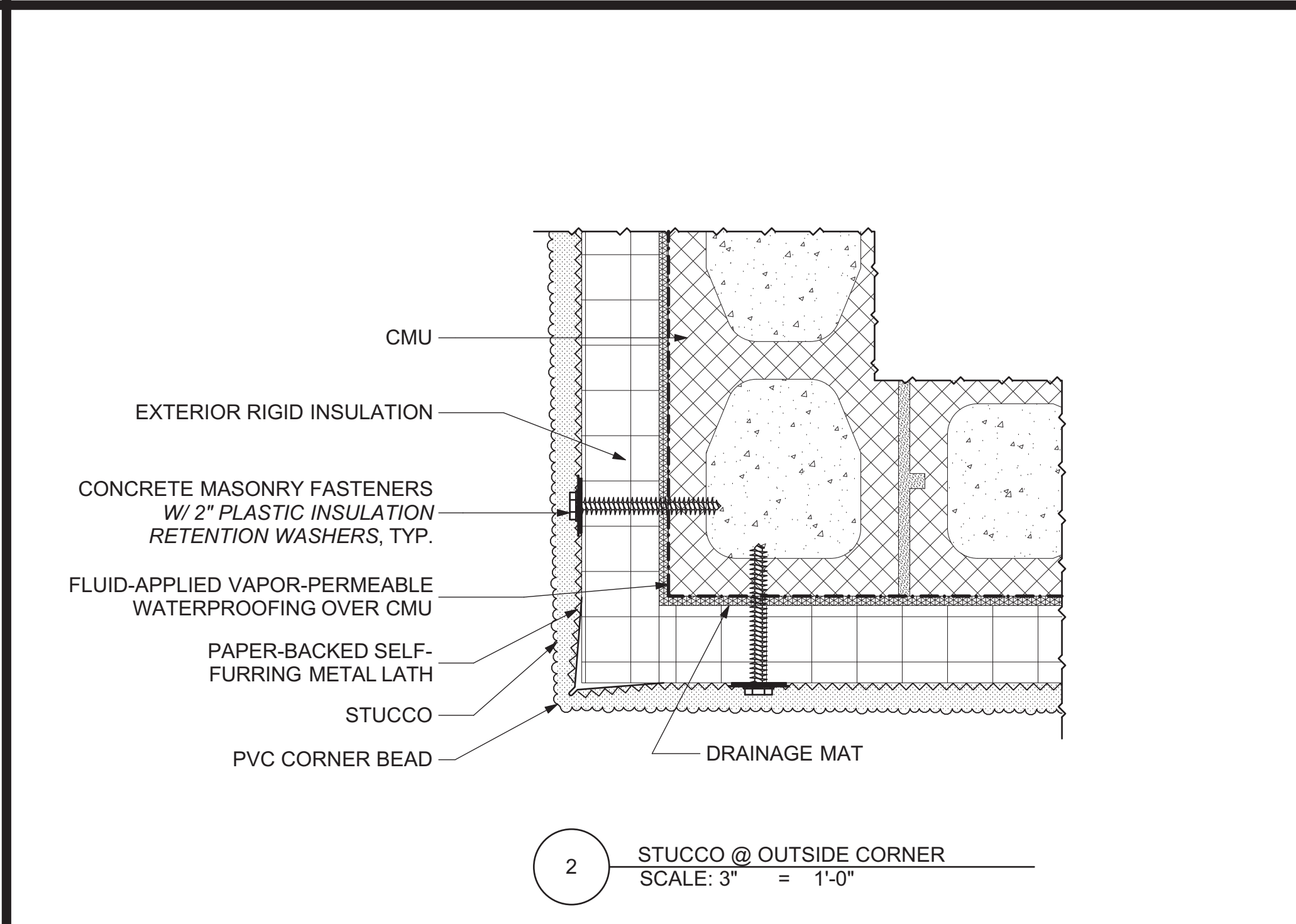
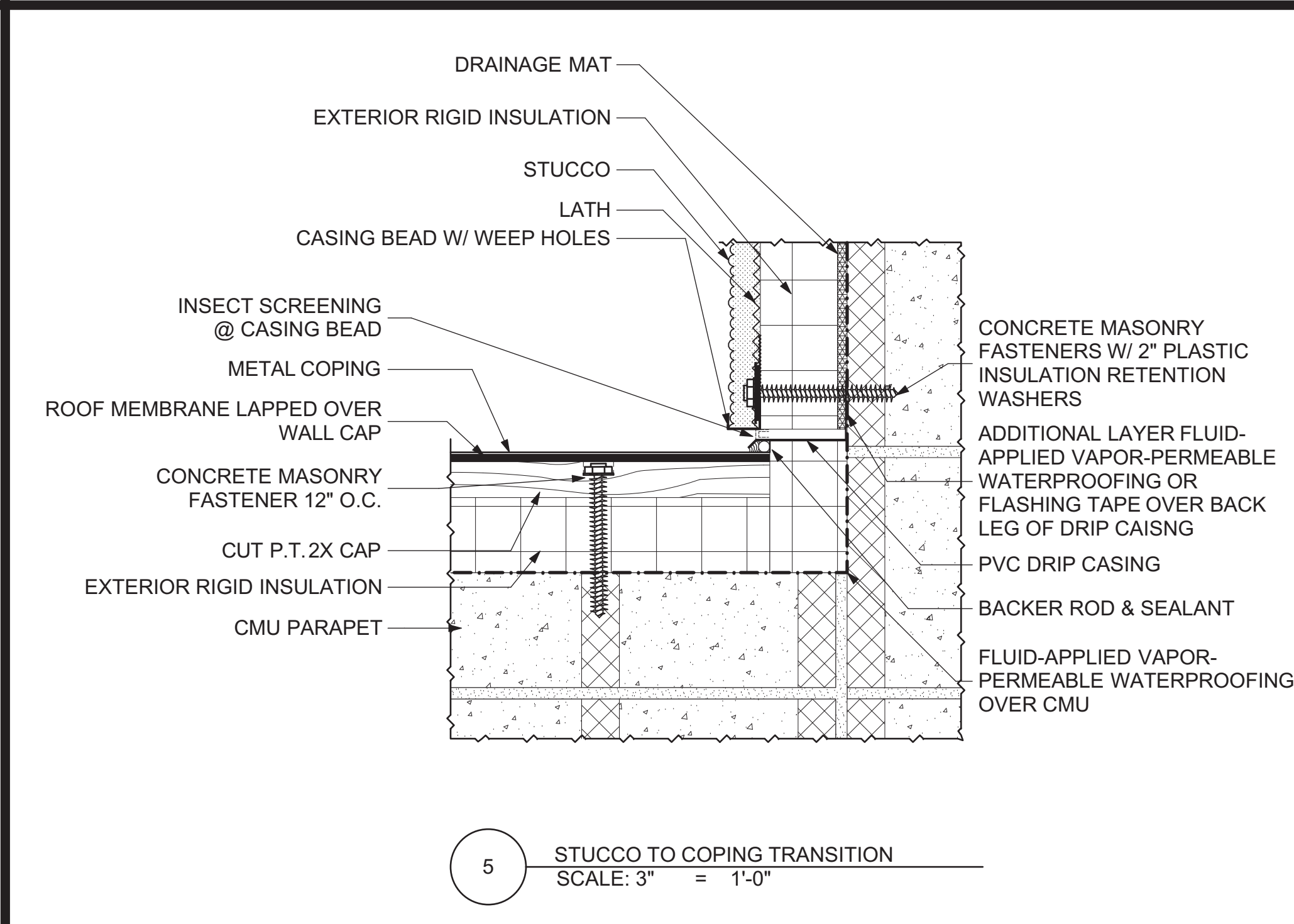
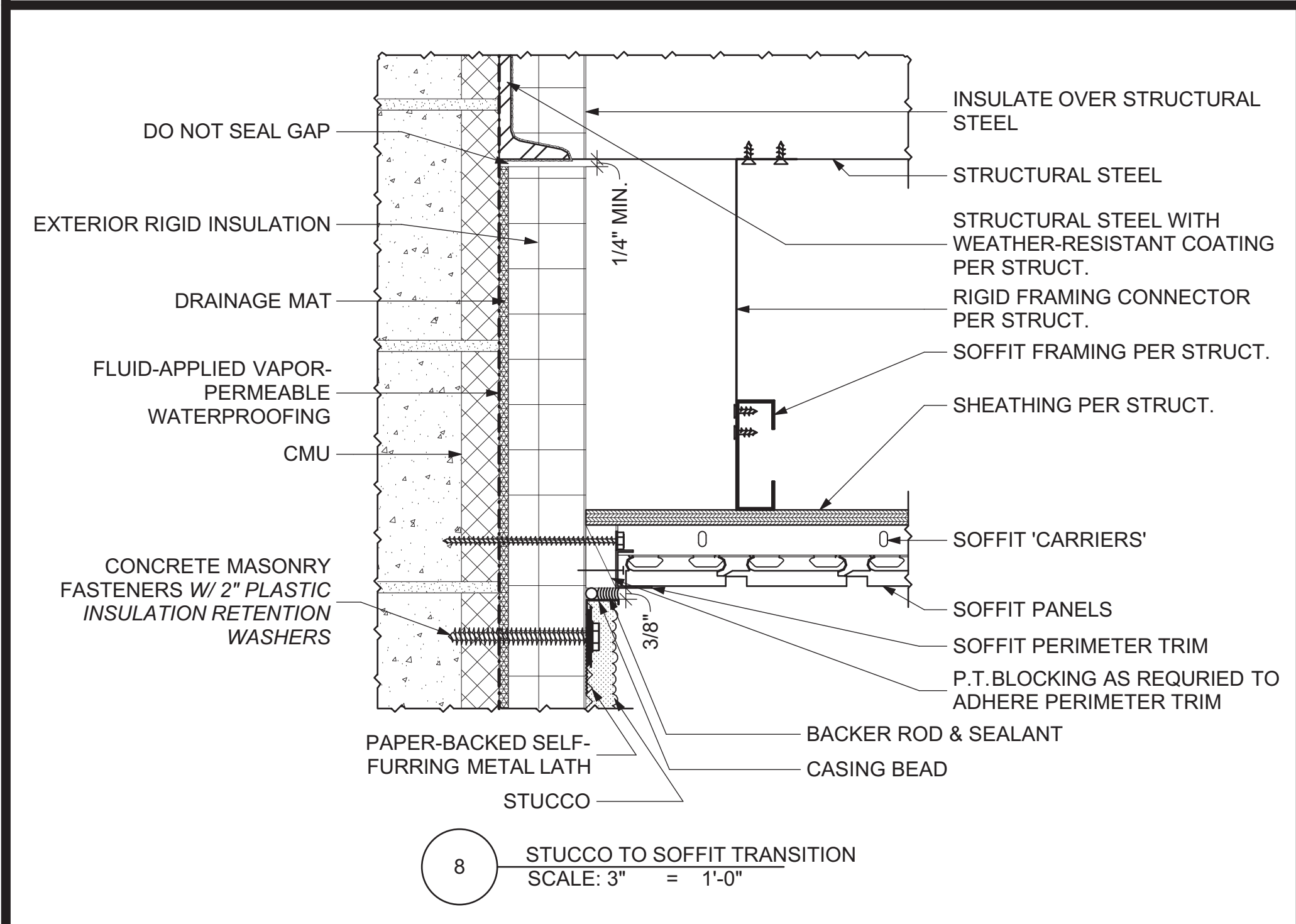
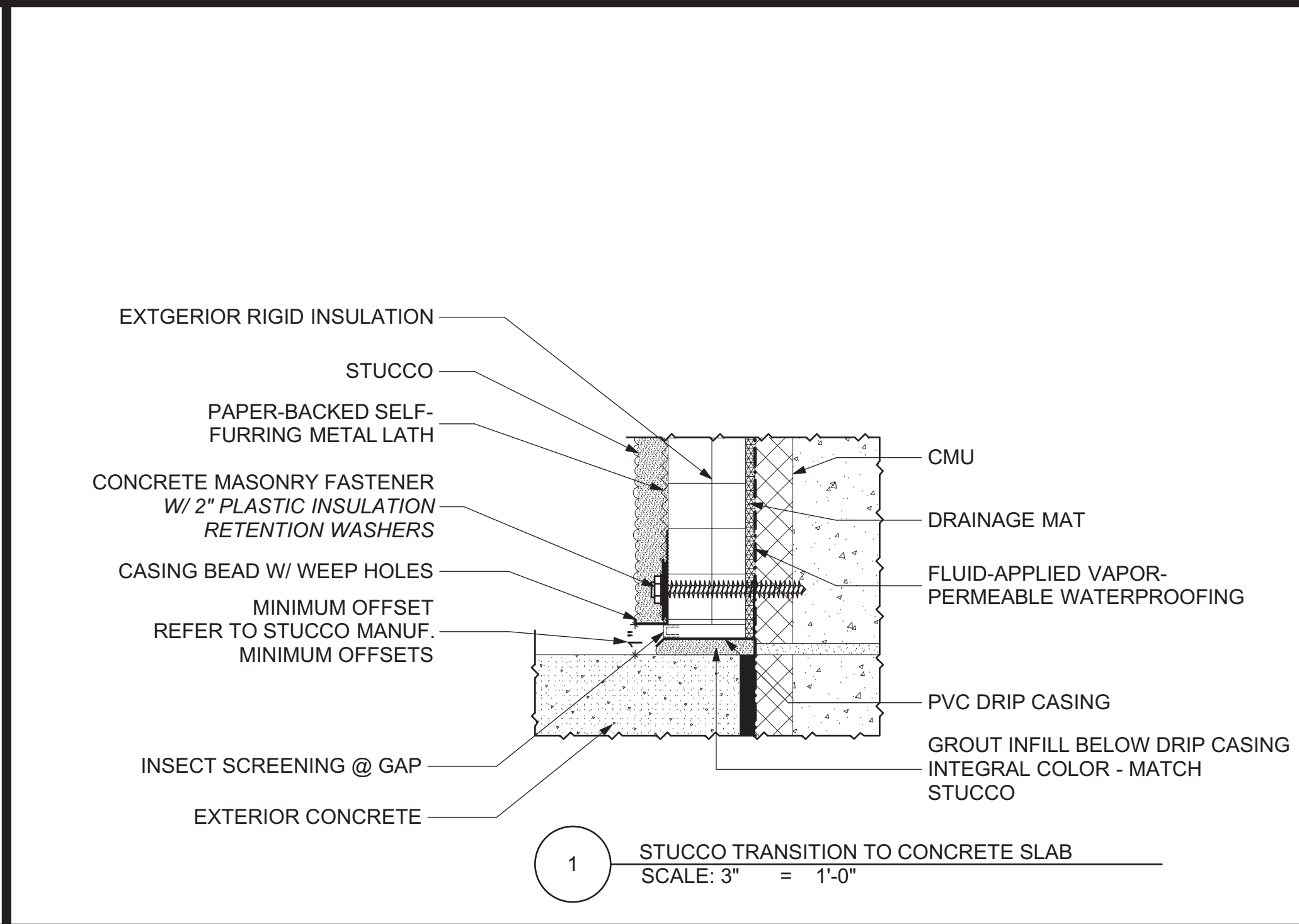
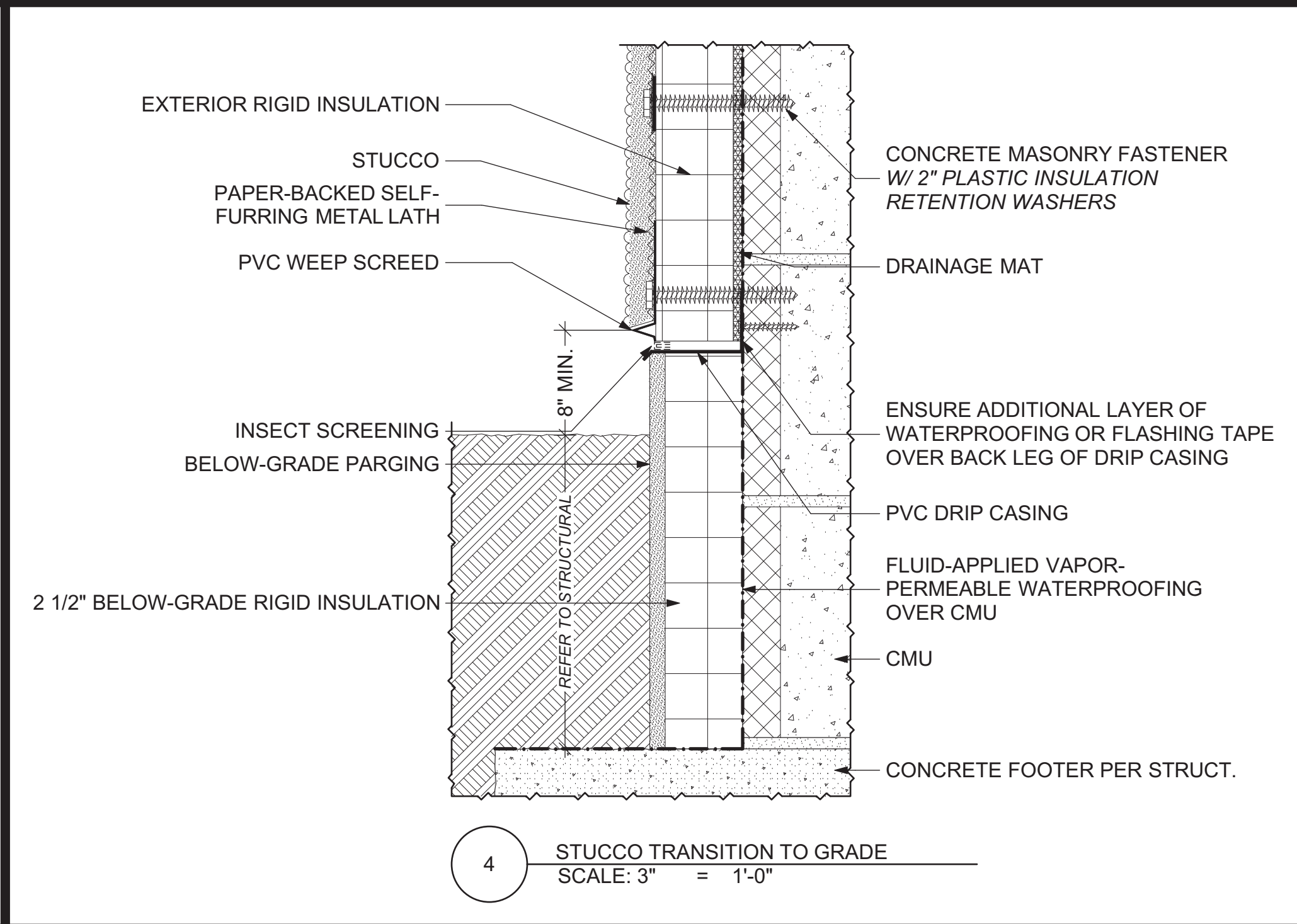
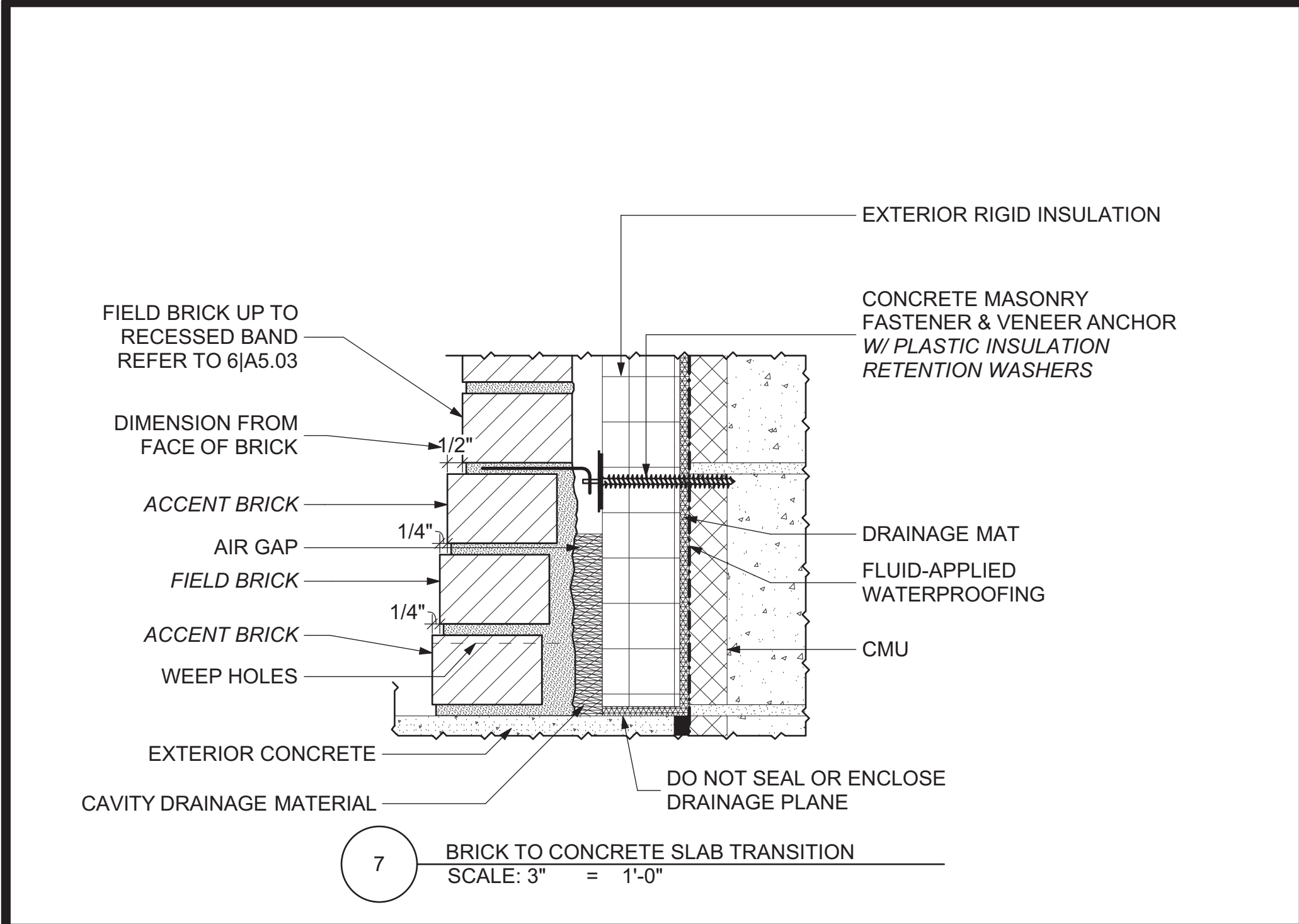
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**A4.02**





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**DETAILS**

REVISIONS		
ID	DATE	DESCRIPTION

DATE: 01/29/2025  
DRAWN: IWP  
CHECKED: BDH  
JOB NO.: HDGA 2314

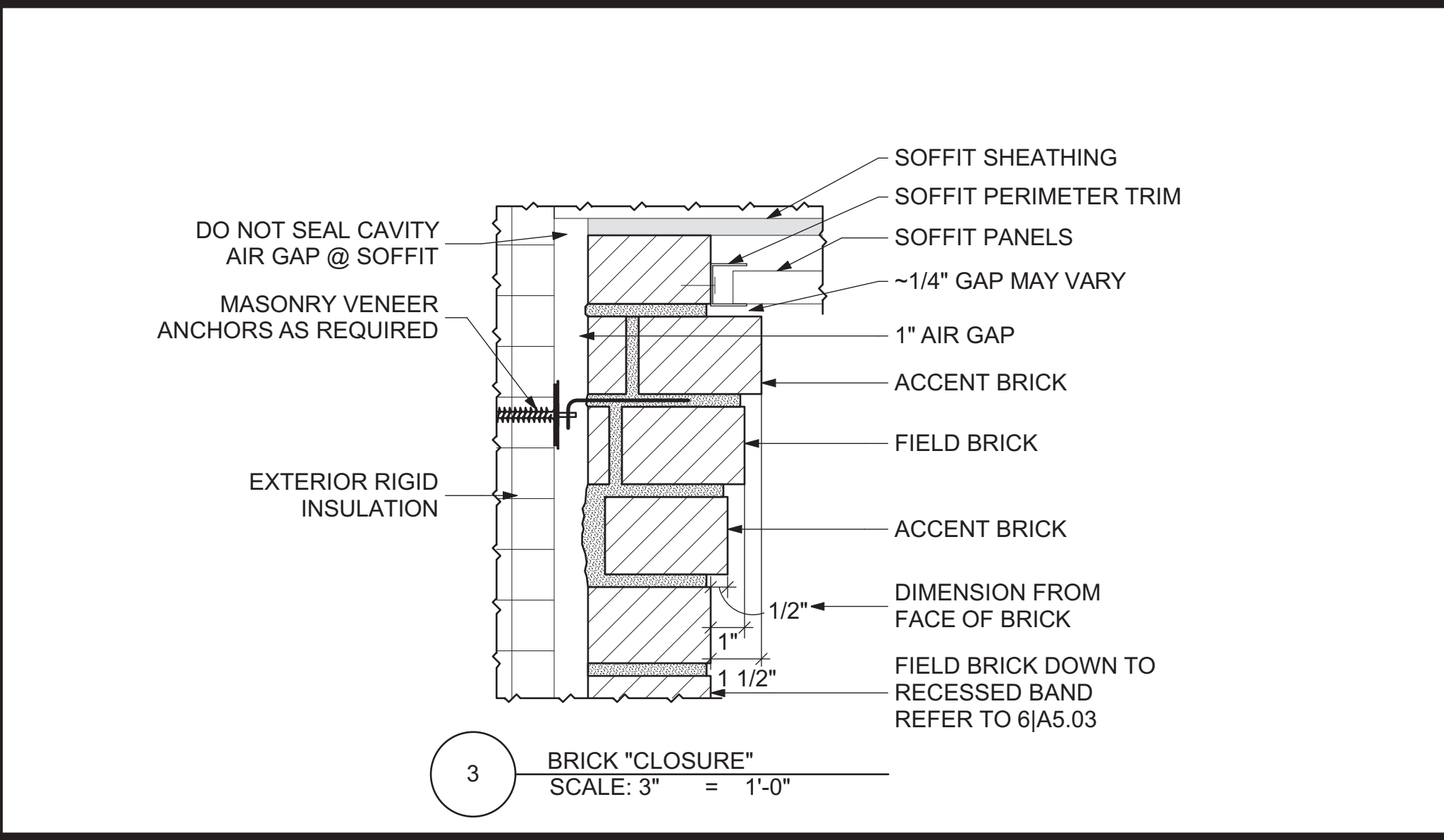
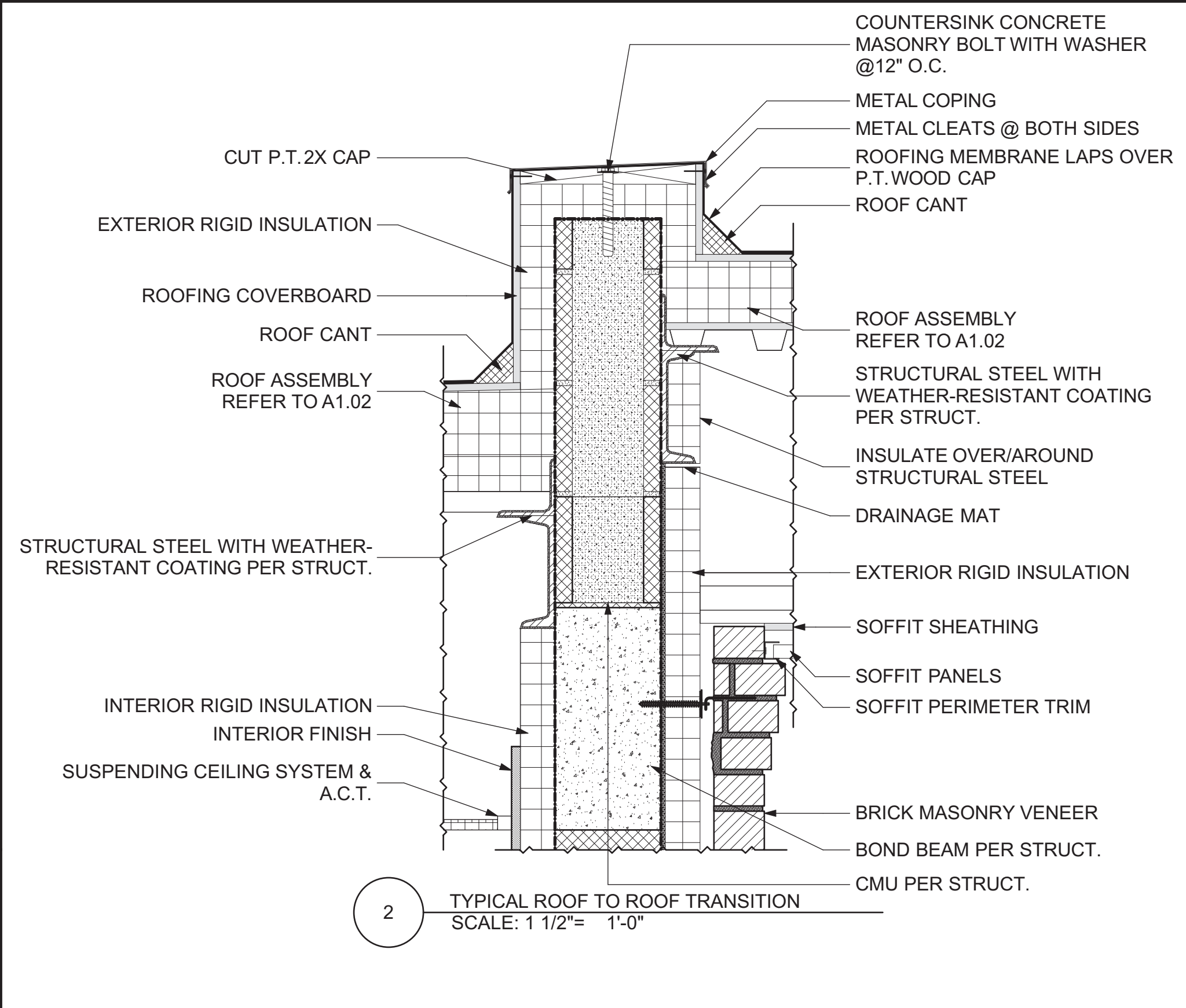
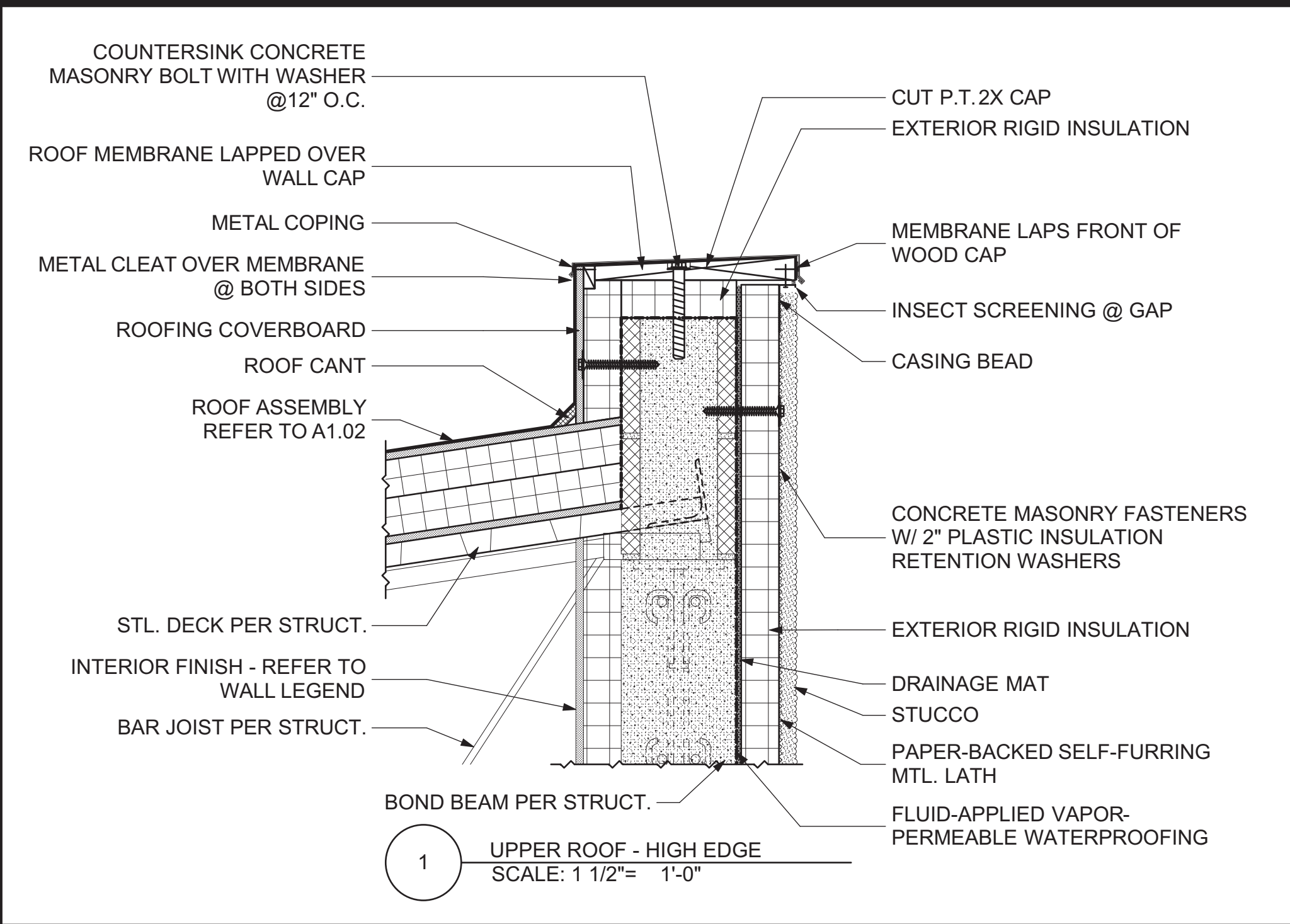
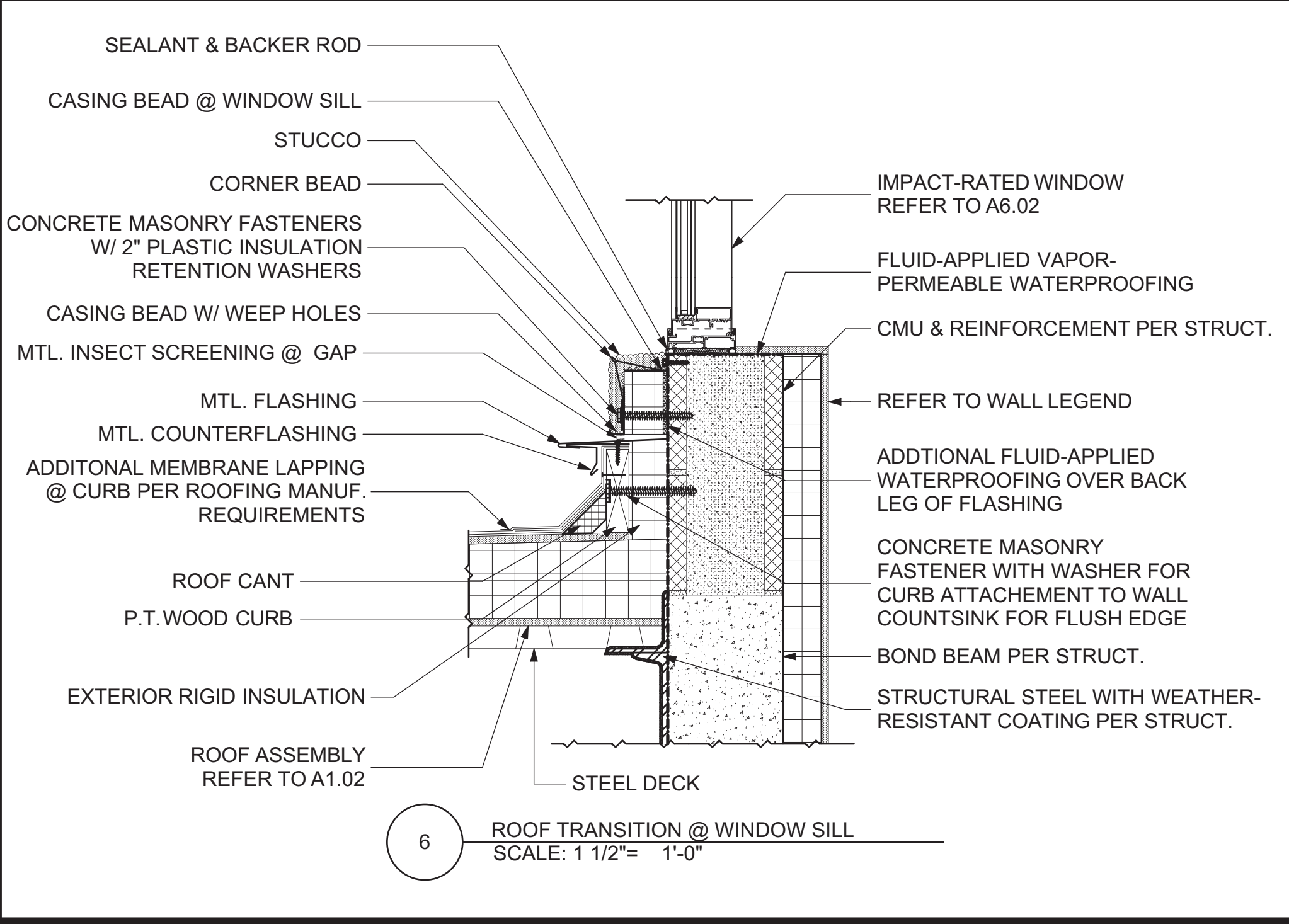
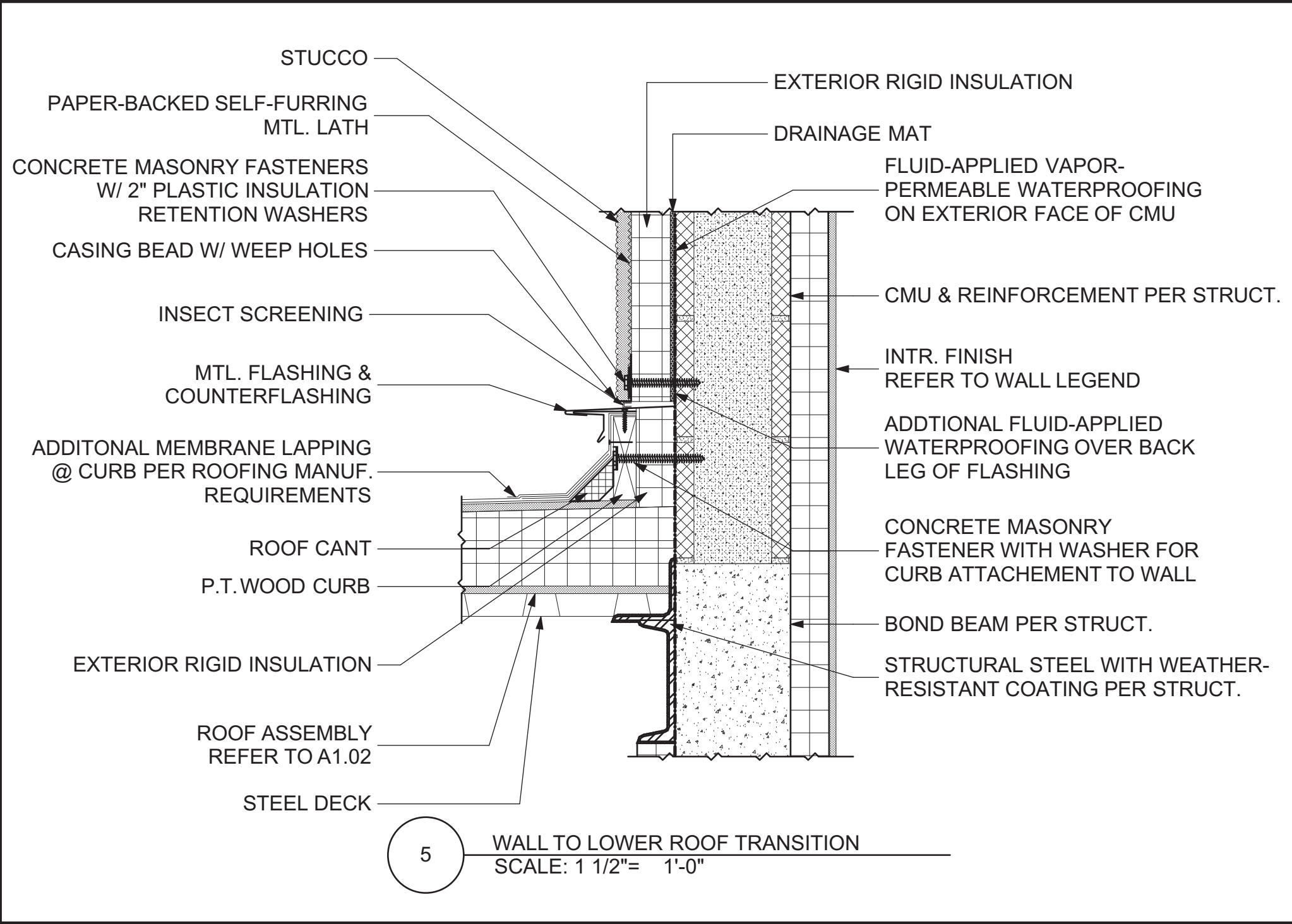
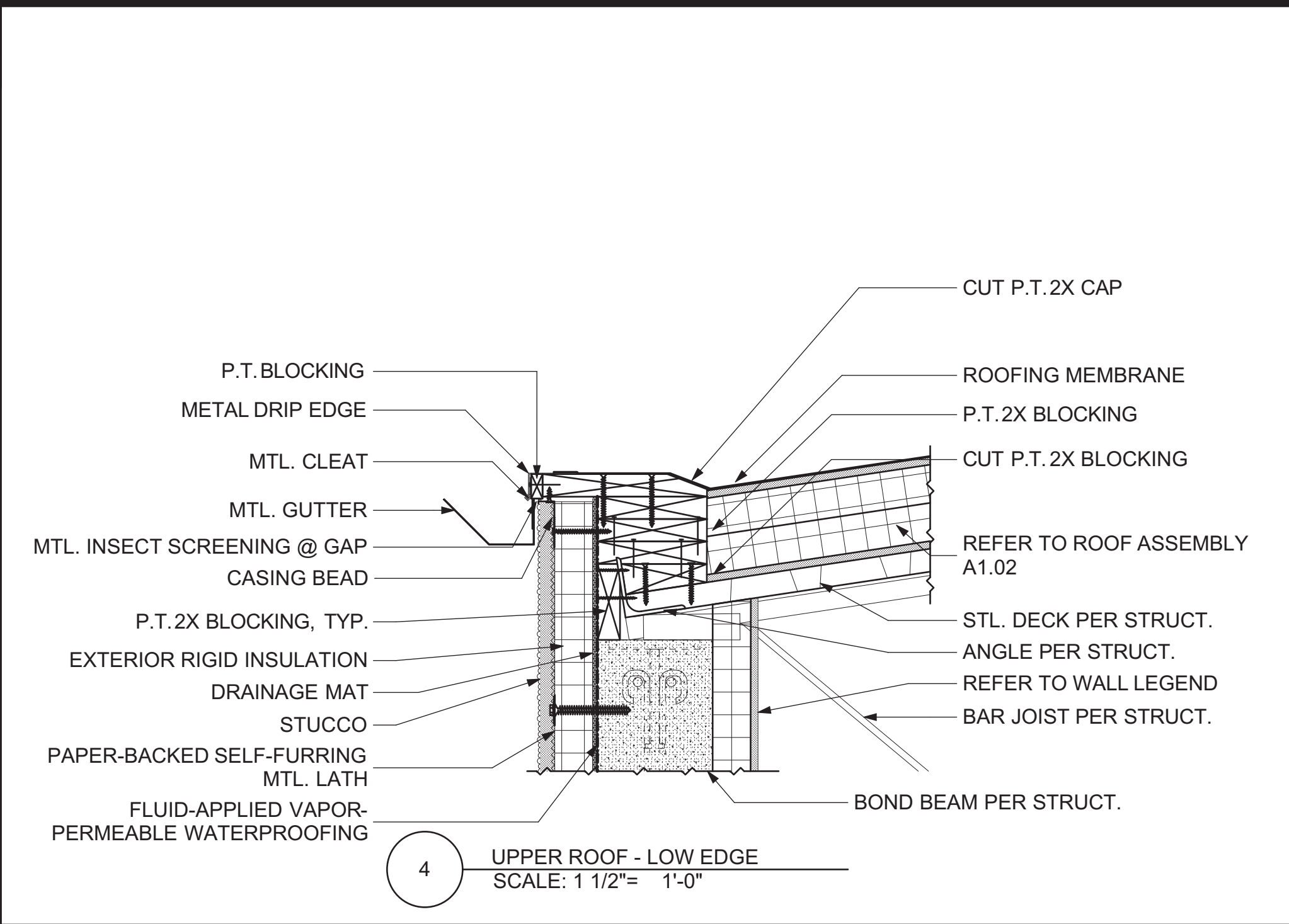
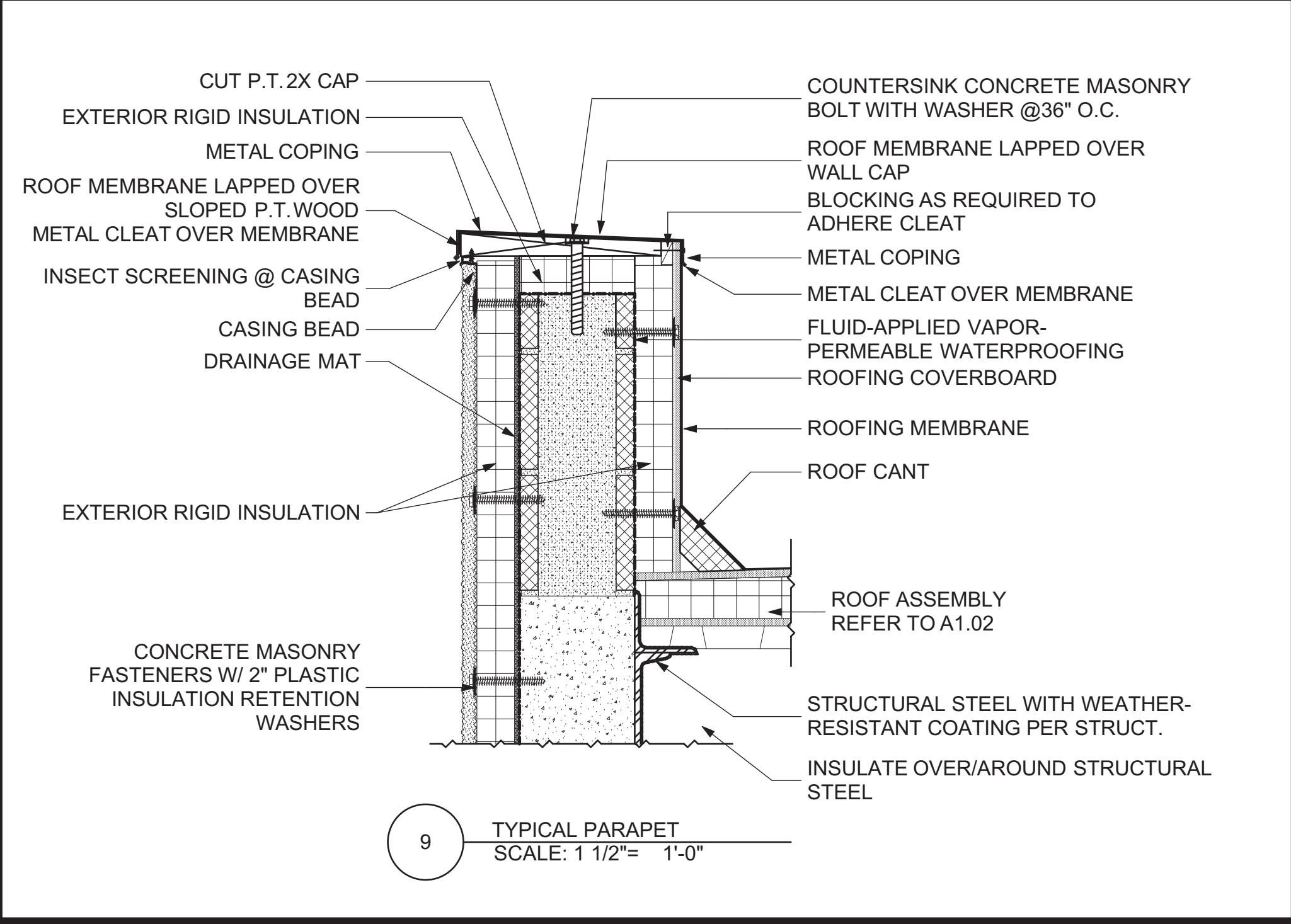
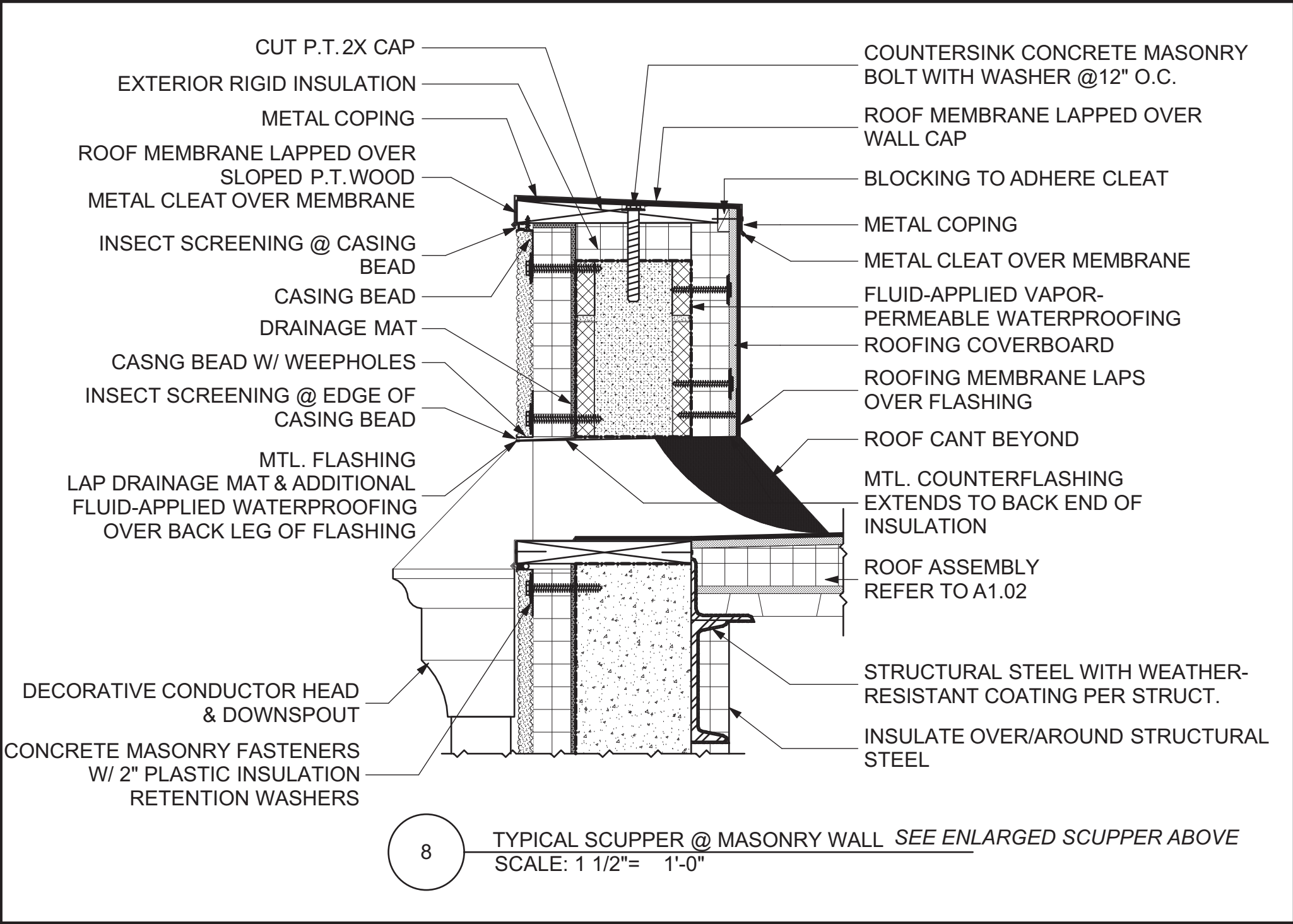
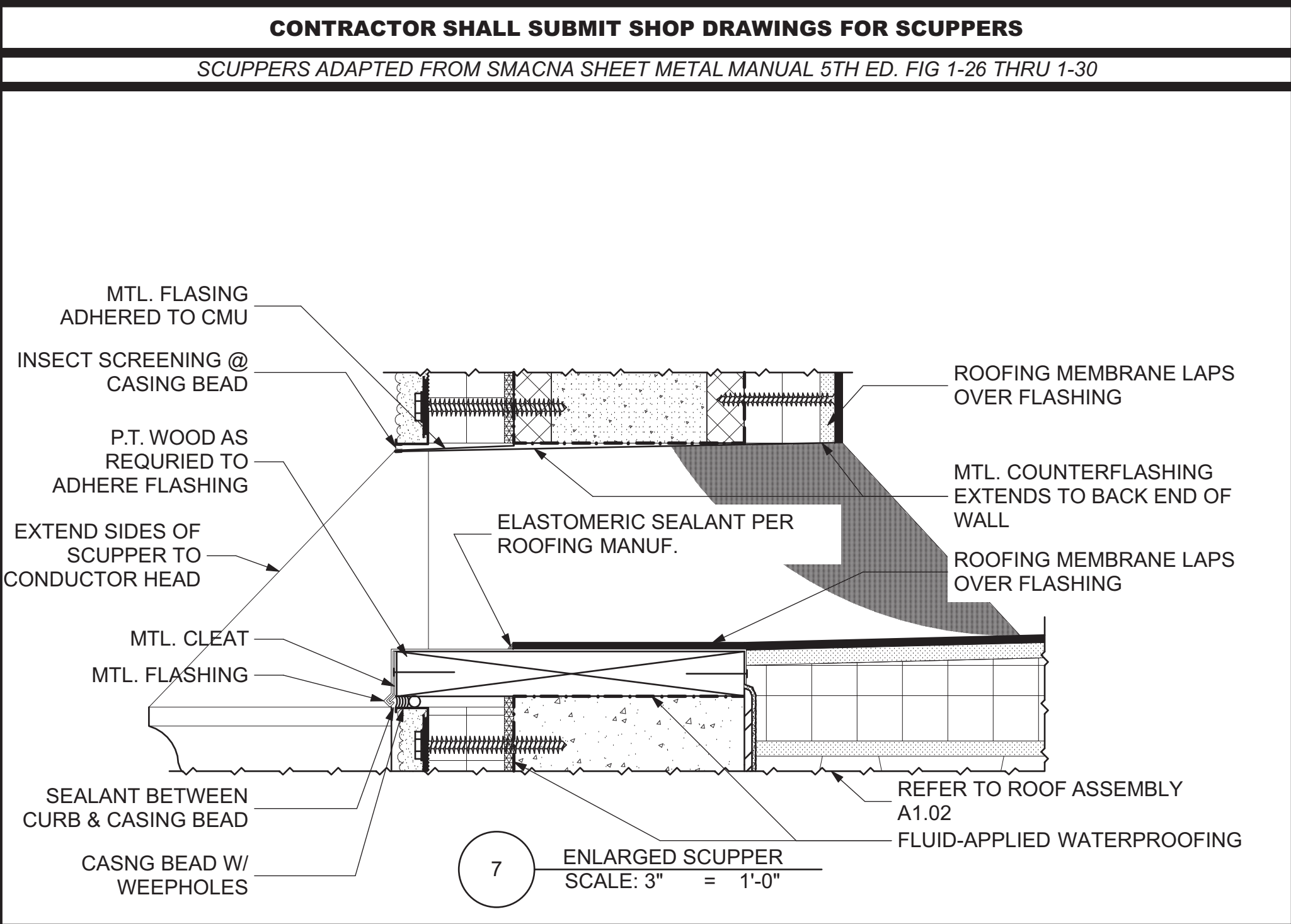
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**A5.01**





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REVISIONS		
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CHECKED BDH  
JOB NO. HDGA 2314

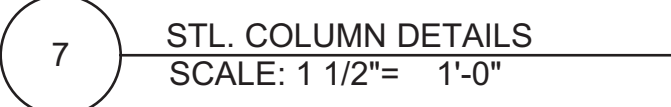
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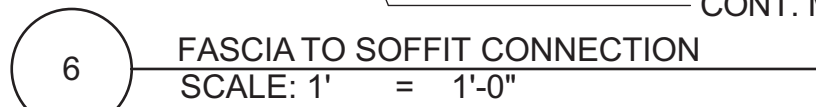
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8 RECESSED BRICK BAND  
SCALE: 3" = 1'-0"

9 TYPICAL PENETRATION  
SCALE: 3" = 1'-0"



2 SCUPPER @ CANOPY  
SCALE: 1 1/2"= 1'-0"





DOOR HARDWARE SCHEDULE				
ID	LOCKSET	DESCRIPTION	ELEMENTS	FINISH
1	ENTRY	STOREFRONT ENTRANCES	2 CONTINUOUS HINGES	29
			2 OFFSET PULLS	625
			2 <b>FALCON 1990</b> CONCEALED ROD EXIT DEVICE	29
			1 <b>MS-1850-050 ADAMS RITE</b>	
2	HOLLOW METAL ENTRANCES	ENTRY    CORRIDOR ML2048	2 <b>LCN5030</b> CONCEALED OVERHEAD CLOSER	
			1 IMPACT-RATED CENTER-HUNG THRESHOLD	ALUM.
			2 <b>88-F VON DUPRIN</b> RIM EXIT DEVICE	
			2 <b>ML2000</b> SERIES PSM, <b>CORBIN RUSSWIN</b>	
3	OFFICE    STORAGE	ML2057	6 COMPLIANT HINGES	BLACK ALUM.
			1 <b>65 SERIES ZERO INTERNATIONAL</b> THRESHOLD	
			1 <b>8144 ZERO INTERNATIONAL</b> WEATHERSTRIPPING	
			1 SADDLE THRESHOLD	ALUM.
4	PUBLIC    PRIVATE TOILET	ML2030	1 <b>ML2000</b> SERIES PSM, <b>CORBIN RUSSWIN</b>	625
			1 CYLINDER EXTR. KEYED    INTR. THUMBTURN	625
			3 EA. HINGES <b>HAGER BB1191-4 1/2 X 1/2 N.R.P.</b>	625
			1 DOOR STOP <b>ROCKWOOD 441</b>	625
5	DOORS WHICH REQUIRE THE OPTION TO BE SECURED SUCH AS AN OFFICE OR STORAGE ROOM	ML2057	1 SADDLE THRESHOLD	ALUM.
			1 <b>ML2000</b> SERIES PSM, <b>CORBIN RUSSWIN</b>	625
			1 CYLINDER EXTR. KEYED    INTR. THUMBTURN	625
			3 EA. HINGES <b>HAGER BB1191-4 1/2 X 1/2 N.R.P.</b>	625
6	SINGLE-OCCUPANT TOILET INSIDE A BUILDING OR STRUCTURE	PUBLIC ACCESS REQUIRES CLOSER LEVER HARDWARE	1 DOOR STOP <b>ROCKWOOD 404</b>	625
			1 DOOR CLOSER <b>CORBIN RUSSWIN DC8220</b>	625
			1 SADDLE THRESHOLD	ALUM.
			1 <b>ML2000</b> SERIES PSM, <b>CORBIN RUSSWIN</b>	625
1. ALL DOORS SHALL BE OPERABLE BY A SINGLE EFFORT. DOORS AND CLOSERS SHALL BE ADJUSTED SUCH THAT EXTERIOR SWINGING DOORS CAN BE OPERATED BY NO MORE THAN 8.5 POUNDS OF FORCE ON THE LATCH STILE; INTERIOR DOORS BY NO MORE THAN 5.0 POUNDS OF FORCE.				
2. PUSH BARS, HANDRAILS, PULLS, LOCKSETS & OTHER OPERATING MECHANISMS ON ALL DOORS AND OTHER MECHANISMS, OR U-SHAPED HANDLES, SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. THIS REQUIREMENT SHALL BE SATISFIED BY THE 5 POUND FEET STANDARD. ALL DOORS SHALL MEET ACCESSIBILITY REQUIREMENTS PER F.B.C.-ACCESSIBILITY.				

DOOR SCHEDULE															
DOOR LEAF										BASIS OF DESIGN					
ID	WIDTH	HEIGHT	THK	MAT.	ELEV.	MAT.	ELEV	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	HARDWARE SET	CLOSER	MANUFACTURER	MODEL	NOTES
D-01	6'-0"	7'-0"	1 3/4"	ALUM	A	ALUM	A	1/A6.01	2/A6.01	6/A6.01	1	☒	KAWNEER	AA250 THERMAL ENTRANCES	DBL. DOOR; OVERHEAD CONCEALED CLOSER; IMPACT GLAZING
D-02	6'-0"	7'-0"	1 3/4"	ALUM	A	ALUM	A	1/A6.01	2/A6.01	6/A6.01	1	☒	KAWNEER	AA250 THERMAL ENTRANCES	DBL. DOOR; OVERHEAD CONCEALED CLOSER; IMPACT GLAZING
D-03	3'-0"	7'-0"	1 3/4"	SC WOOD	D	HM	D	5/A6.01	8/A6.01	9/A6.01	3	☐	STEELCRAFT   DOORMERICA	F SERIES-FRAMES; DOORMERICA ARCH. PRE-FIN. HW DOORS - FLORIDA FINISH	
D-04	3'-0"	7'-0"	1 3/4"	SC WOOD	D	HM	D	5/A6.01	8/A6.01	10/A6.01	4	☒	STEELCRAFT   DOORMERICA	F SERIES-FRAMES; DOORMERICA ARCH. PRE-FIN. HW DOORS - FLORIDA FINISH	
D-05	3'-0"	7'-0"	1 3/4"	SC WOOD	D	HM	D	5/A6.01	8/A6.01	9/A6.01	3	☐	STEELCRAFT   DOORMERICA	F SERIES-FRAMES; DOORMERICA ARCH. PRE-FIN. HW DOORS - FLORIDA FINISH	
D-06	3'-0"	7'-0"	1 3/4"	SC WOOD	D	HM	D	5/A6.01	8/A6.01	10/A6.01	4	☒	STEELCRAFT   DOORMERICA	F SERIES-FRAMES; DOORMERICA ARCH. PRE-FIN. HW DOORS - FLORIDA FINISH	
D-07	6'-0"	7'-0"	1 3/4"	SC WOOD	C	HM	C	5/A6.01	8/A6.01	9/A6.01	3	☐	STEELCRAFT   DOORMERICA	F SERIES-FRAMES; DOORMERICA ARCH. PRE-FIN. HW DOORS - FLORIDA FINISH	
D-08	6'-0"	7'-0"	1 3/4"	HM	B	HM	B	3/A6.01	4/A6.01	7/A6.01	2	☒	STEELCRAFT	H16 DOORS; F-SERIES FRAMES	DBL. DOOR; IMPACT-RATED CLOSER; IMPACT GLAZING
D-09	3'-0"	7'-0"	1 3/4"	SC WOOD	D	HM	D	5/A6.01	8/A6.01	9/A6.01	3	☐	STEELCRAFT   DOORMERICA	F SERIES-FRAMES; DOORMERICA ARCH. PRE-FIN. HW DOORS - FLORIDA FINISH	

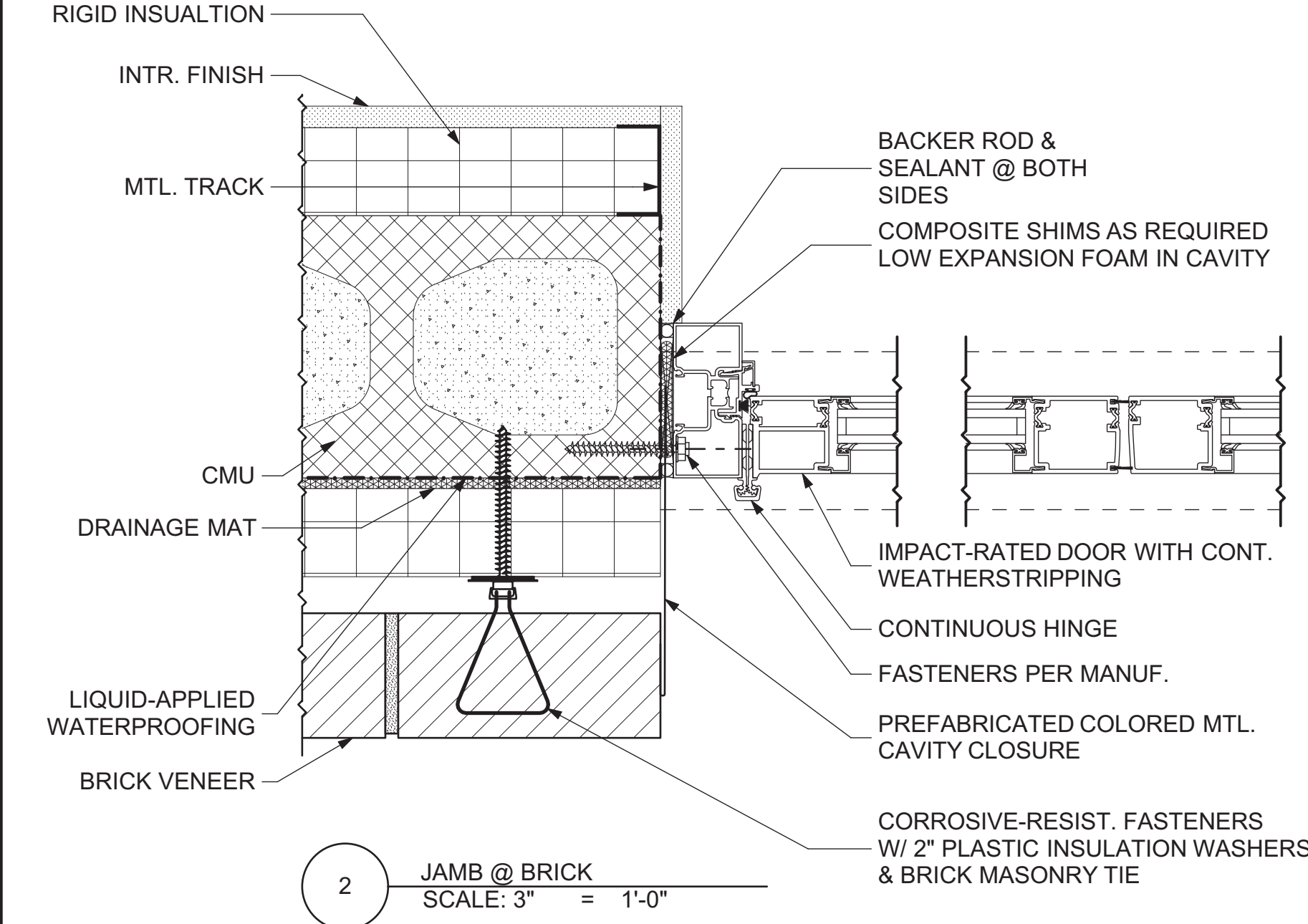
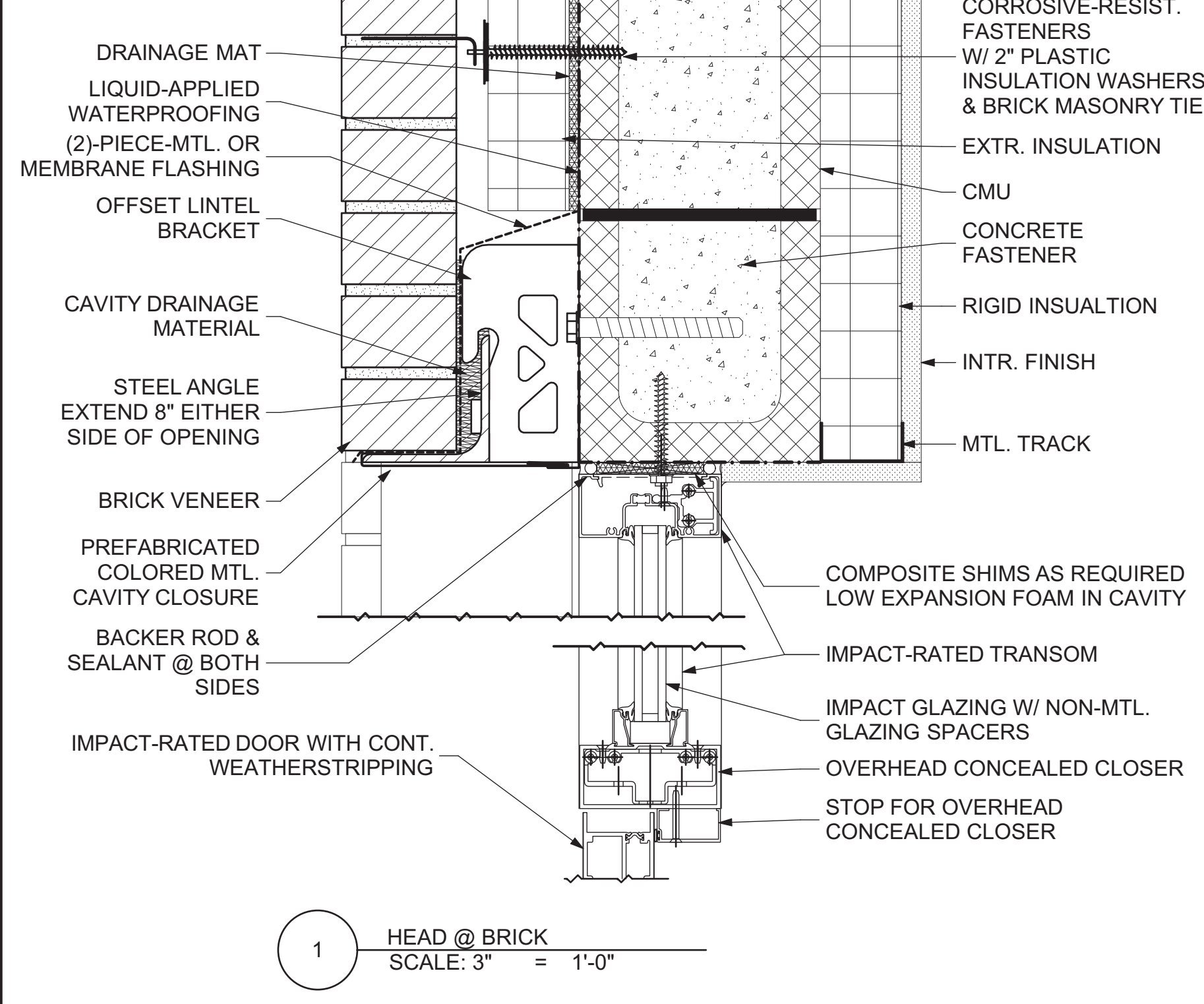
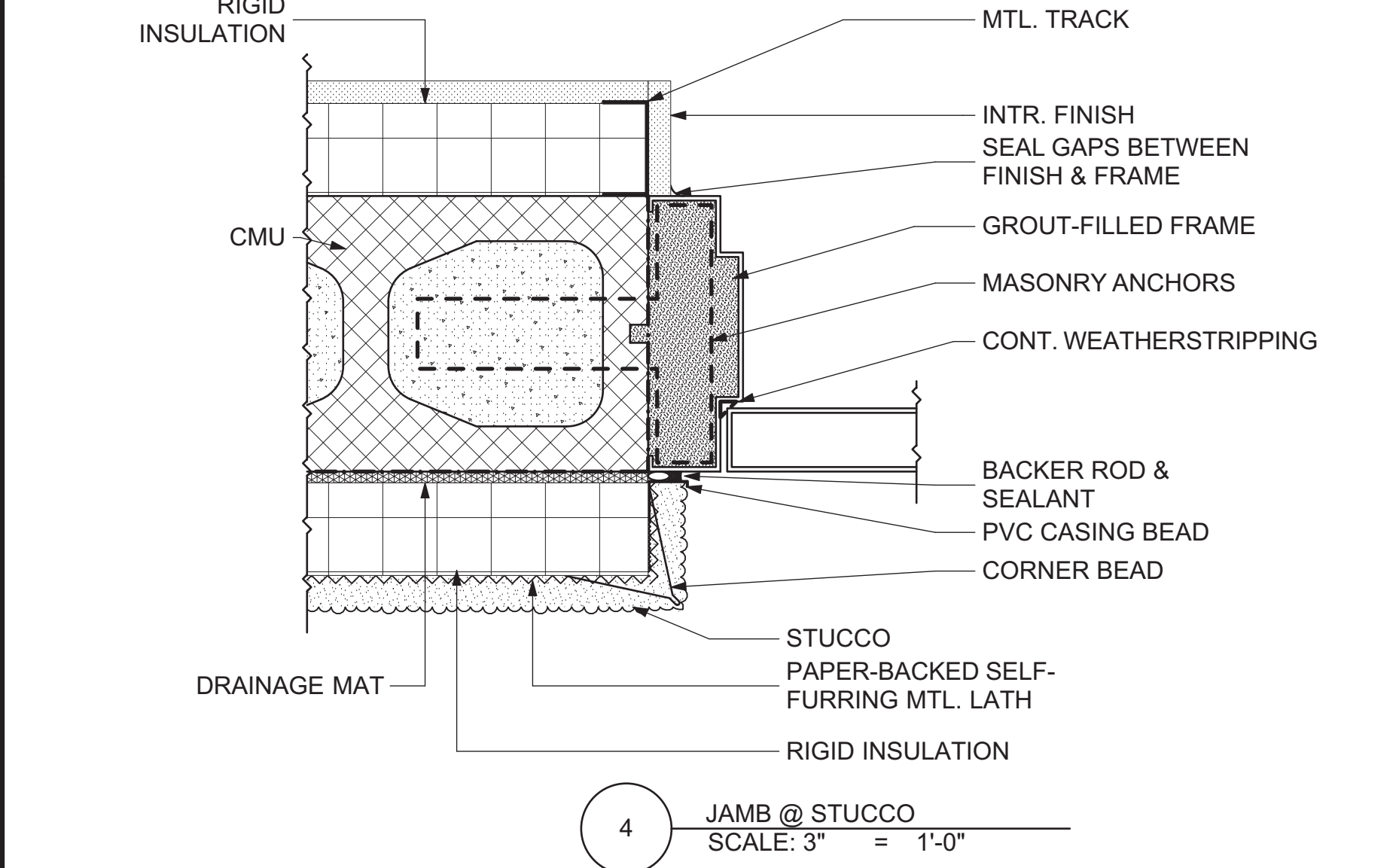
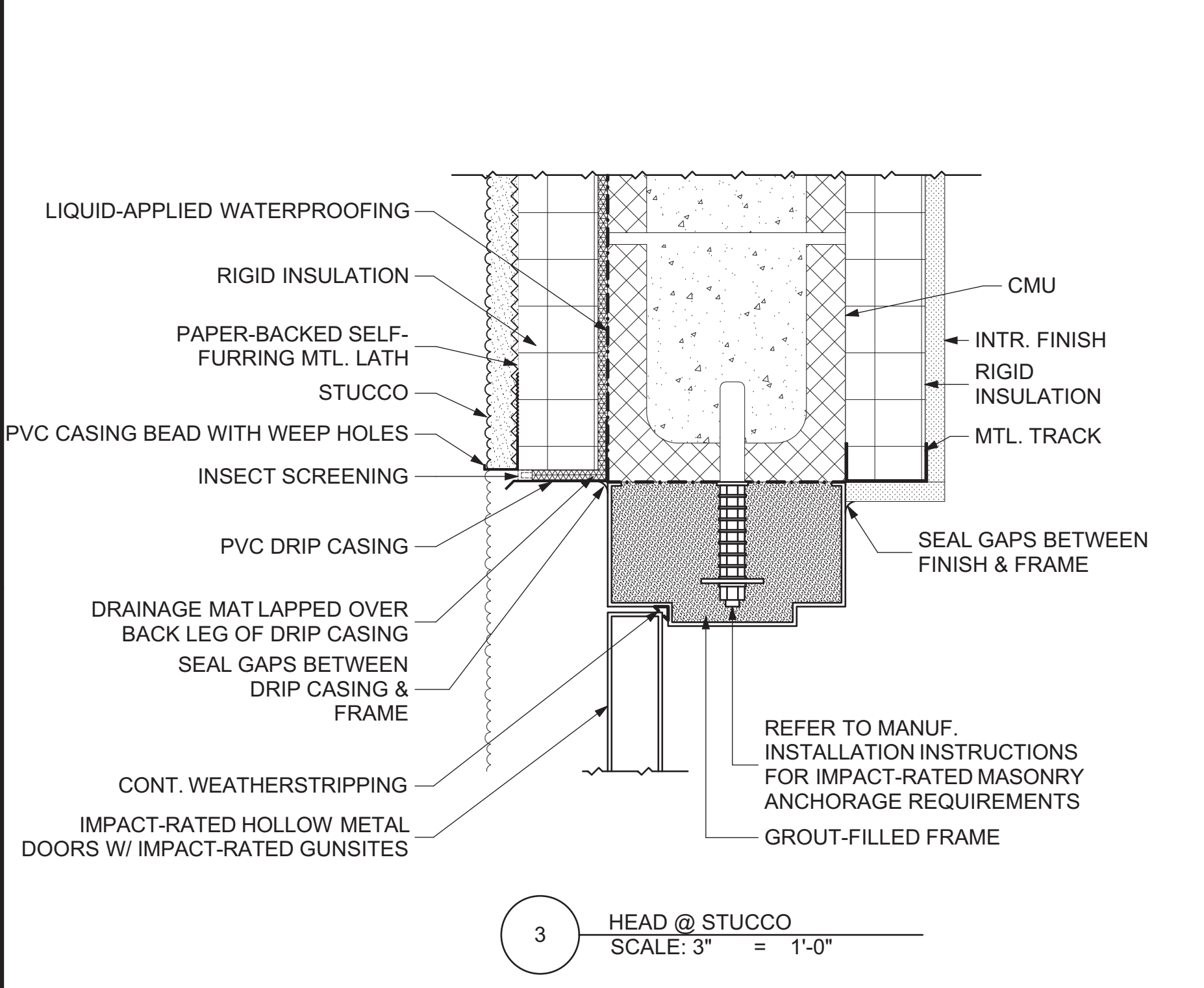
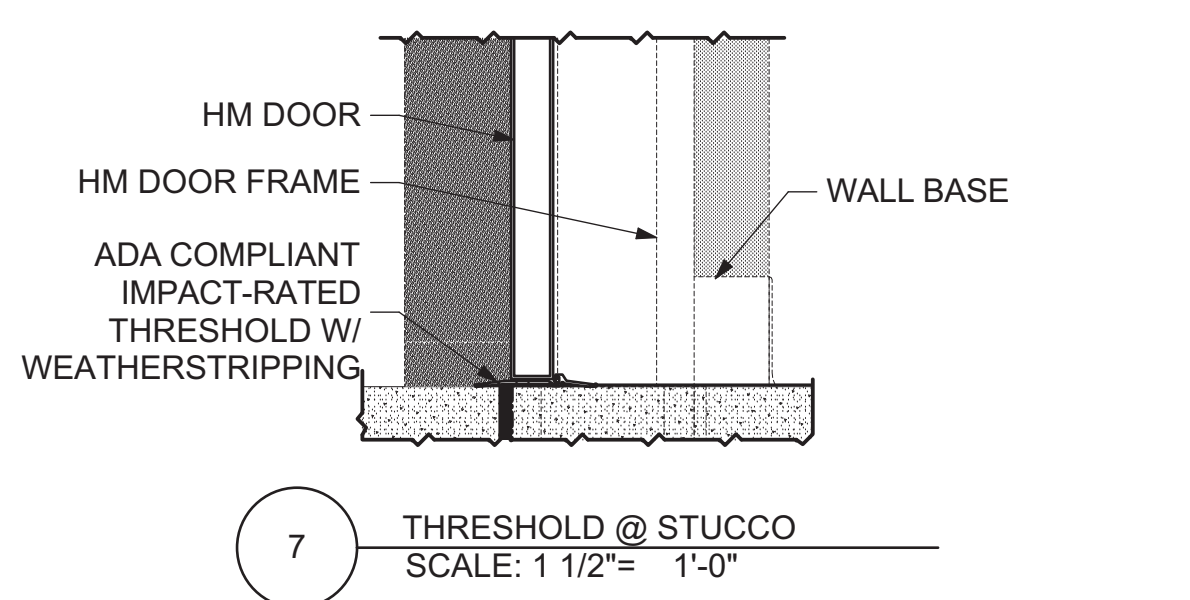
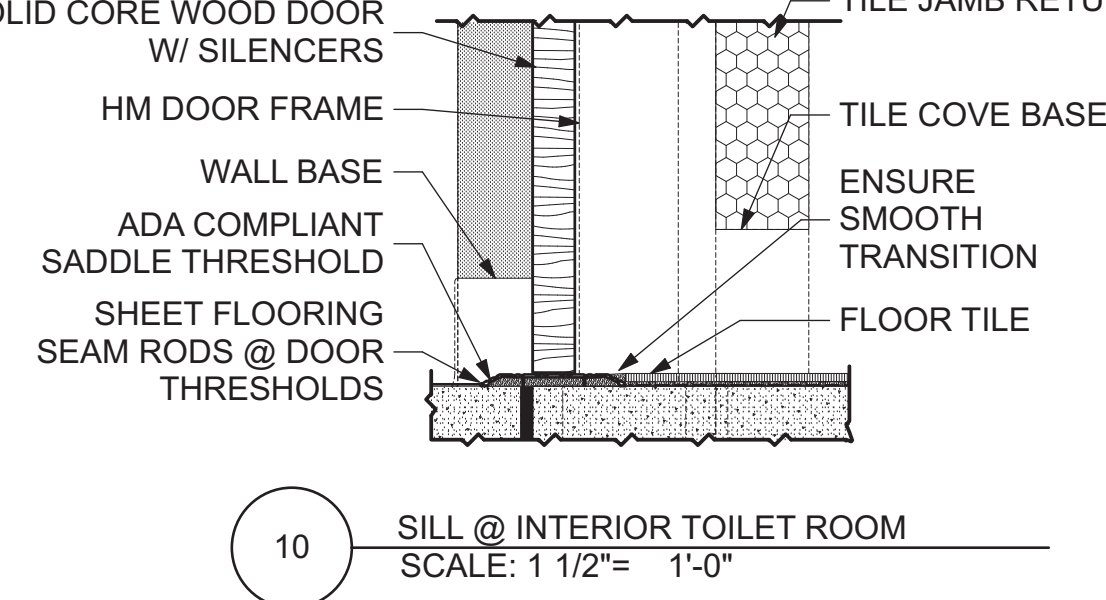
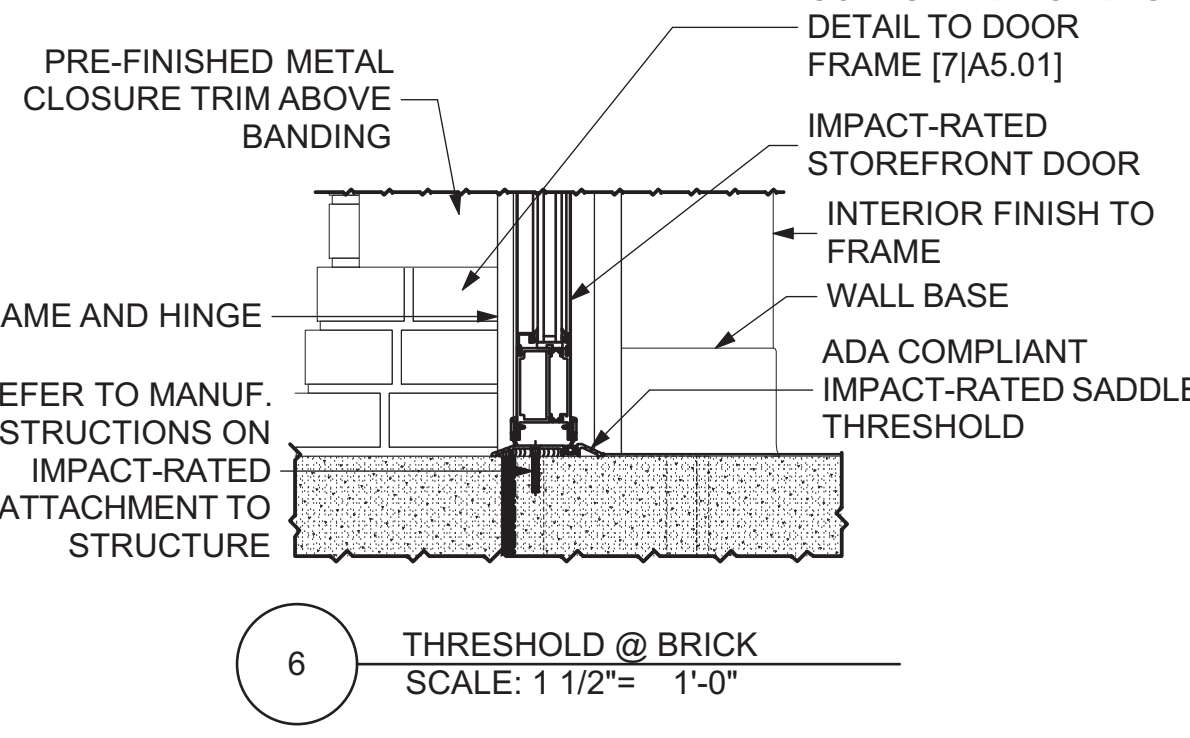
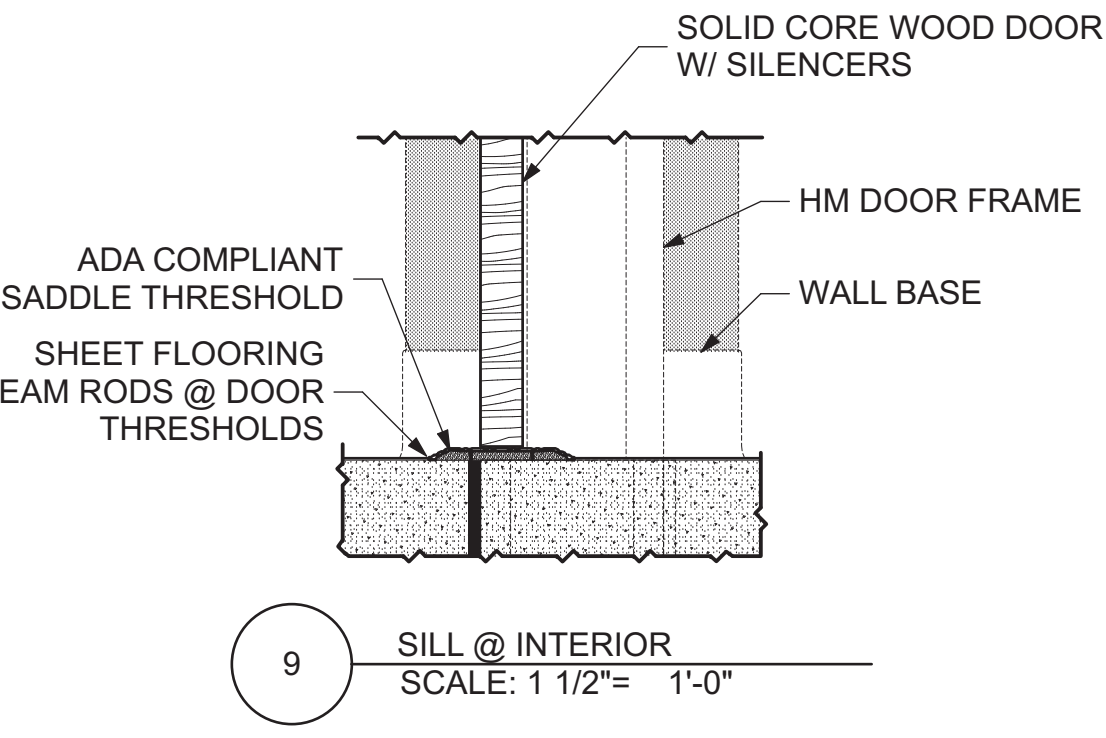
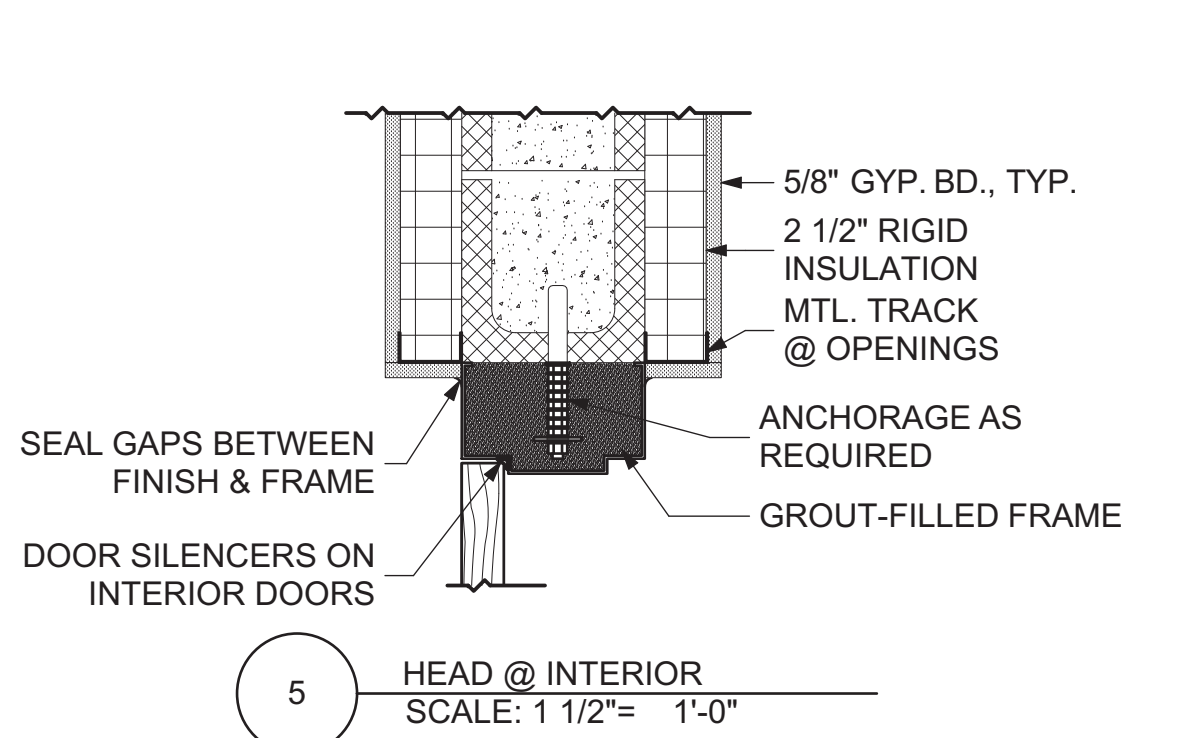
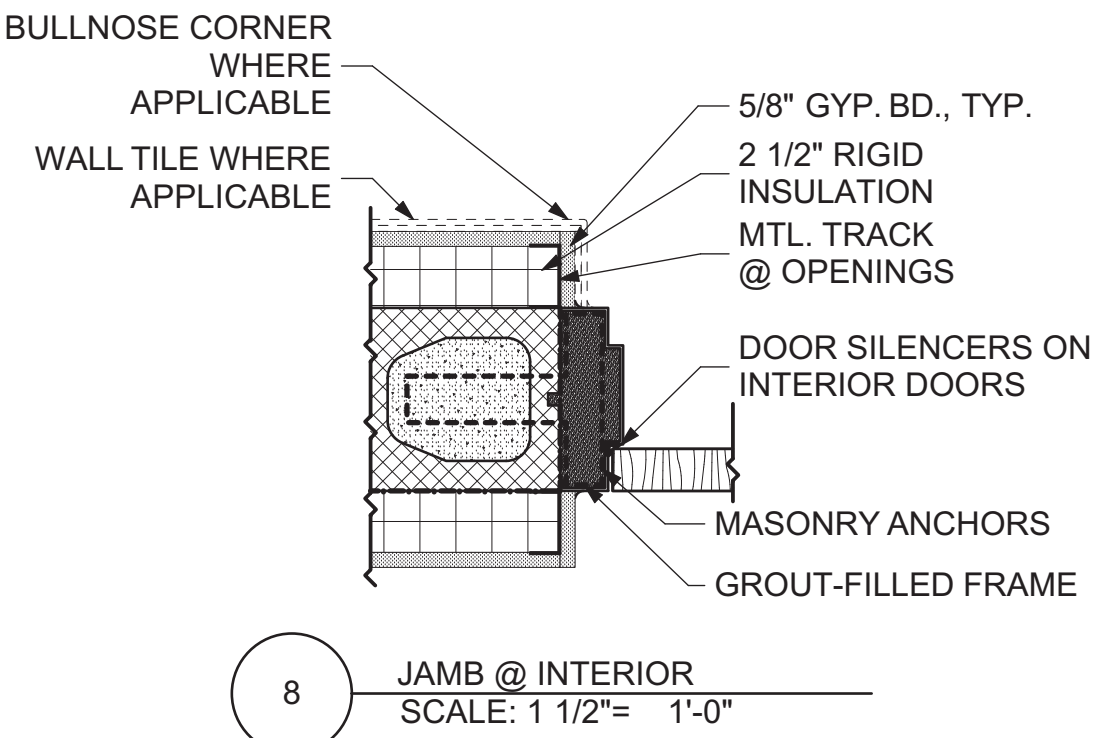
DOOR LEGEND			
Door Elevation ID	A	B	C
ELEVATION			

**DOOR HARDWARE NOTE:**

CONTRACTOR SHALL COORDINATE WITH THE CITY OF APALACHICOLA FOR SECURITY LOCKSETS. THE CITY OF APALACHICOLA SHALL HAVE FINAL SELECTION OF DOOR HARDWARE SETS & MANUF. FOR SECURITY PURPOSES.

ALL EXTERIOR DOOR HARDWARE SHALL COMPLY WITH HURRICANE OR TORNADO IMPACT RATINGS.

ALL DOOR HARDWARE SHALL BE BLACK IN COLOR.



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**DOOR ELEV., SCHED., DETAILS**

**REVISIONS**

ID	DATE	DESCRIPTION

**DATE** ■ 01/29/2025  
**DRAWN** ■ IWP  
**CHECKED** ■ BDH  
**JOB NO.** ■ HDGA 2314

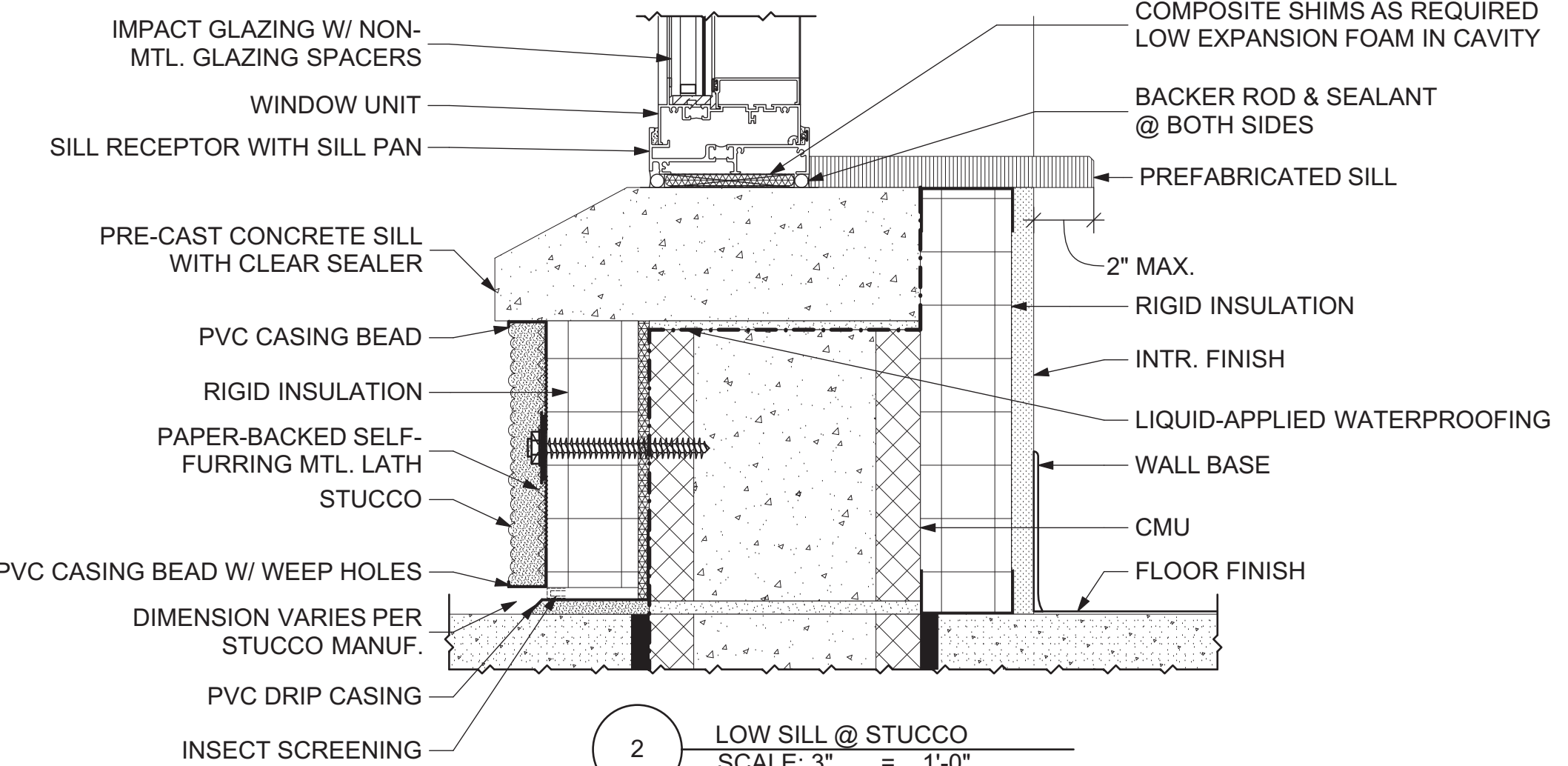
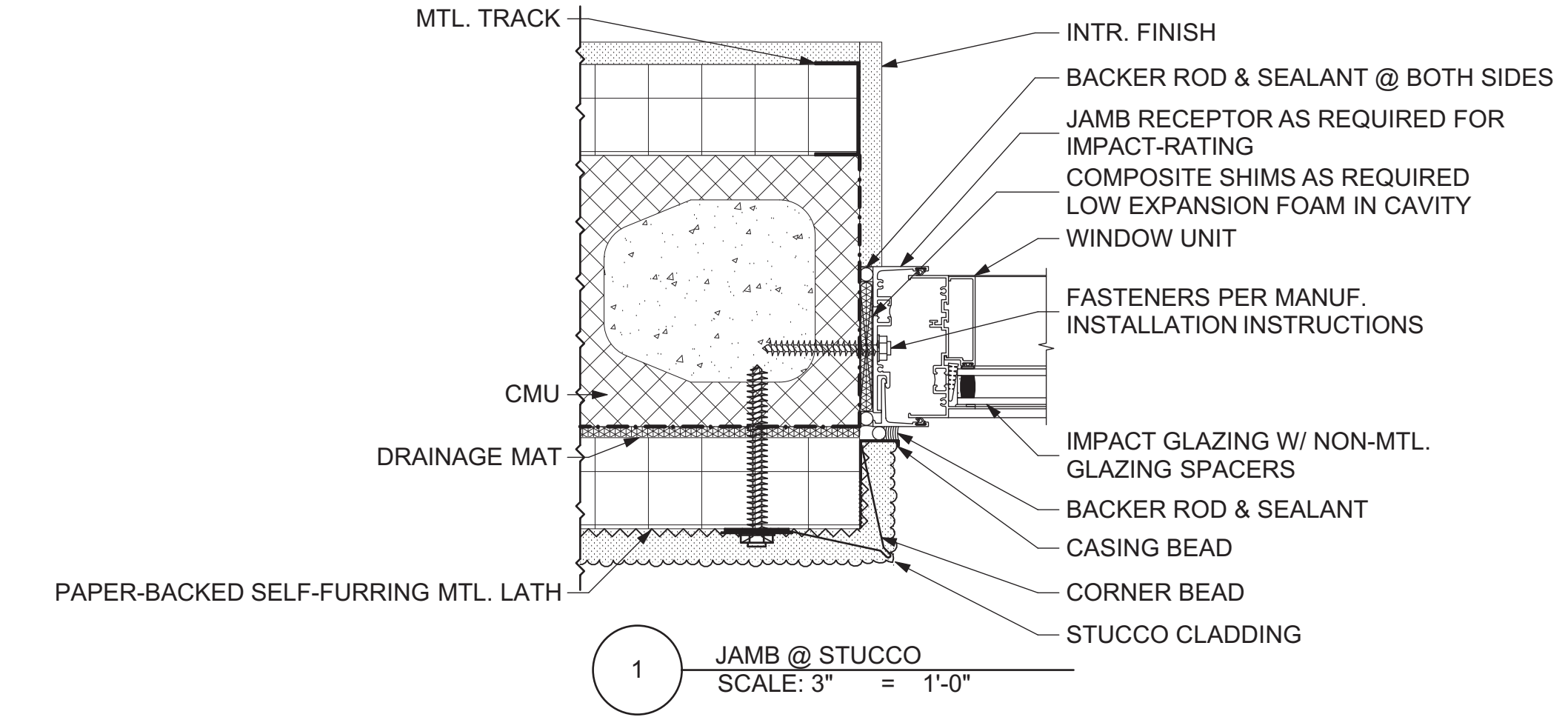
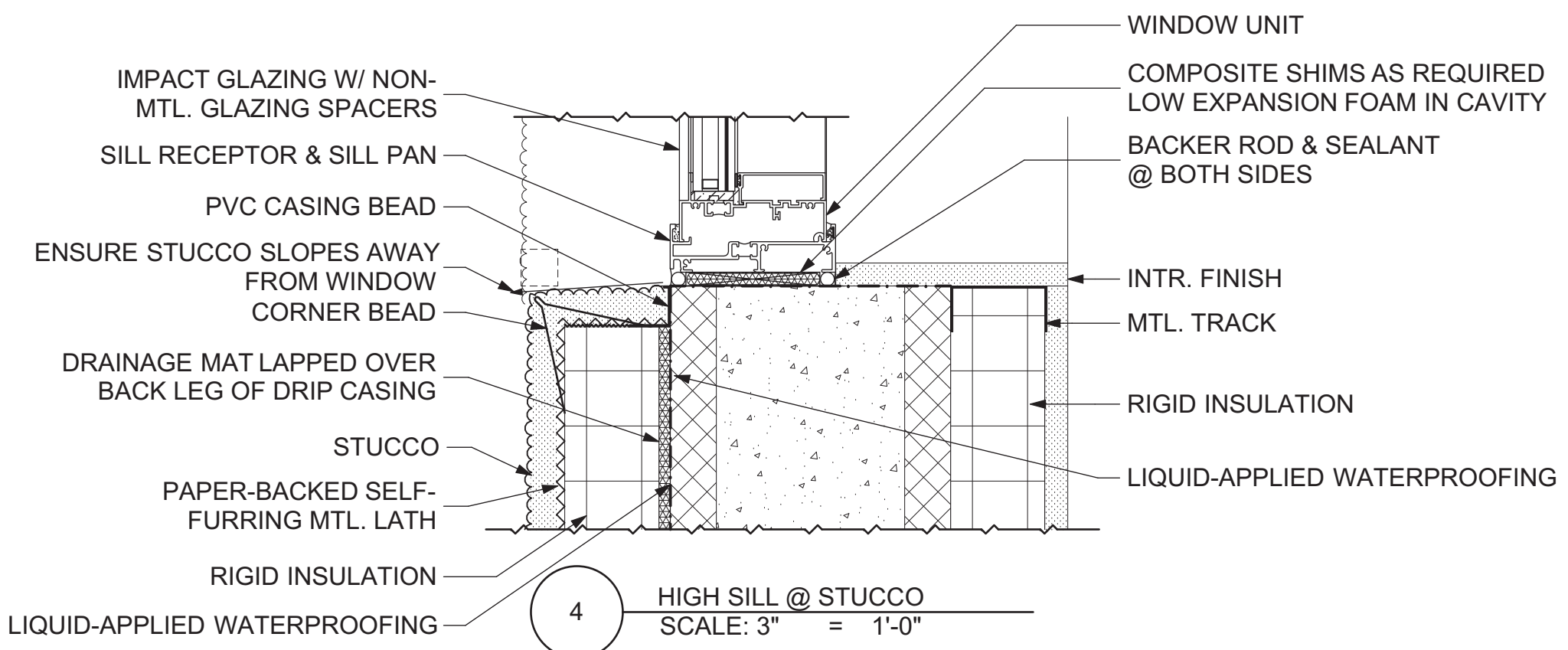
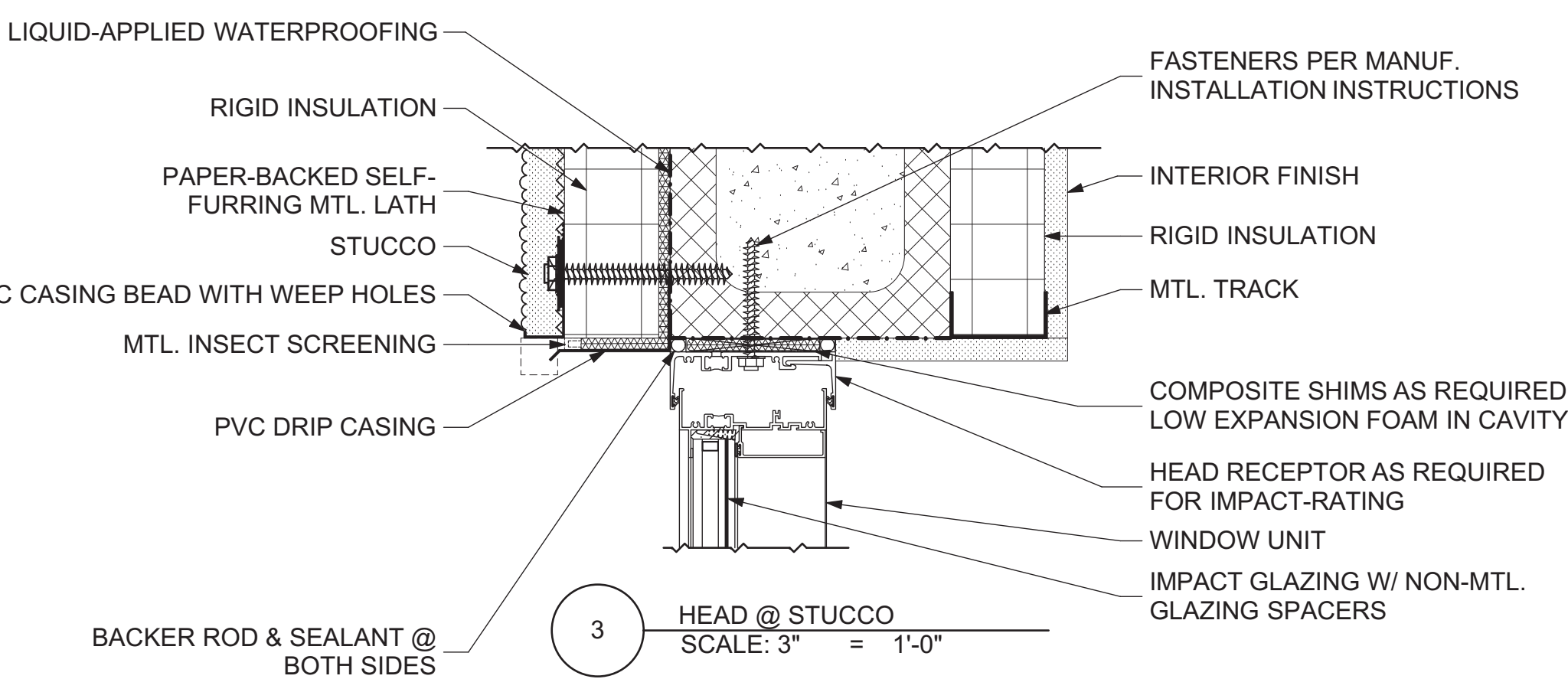
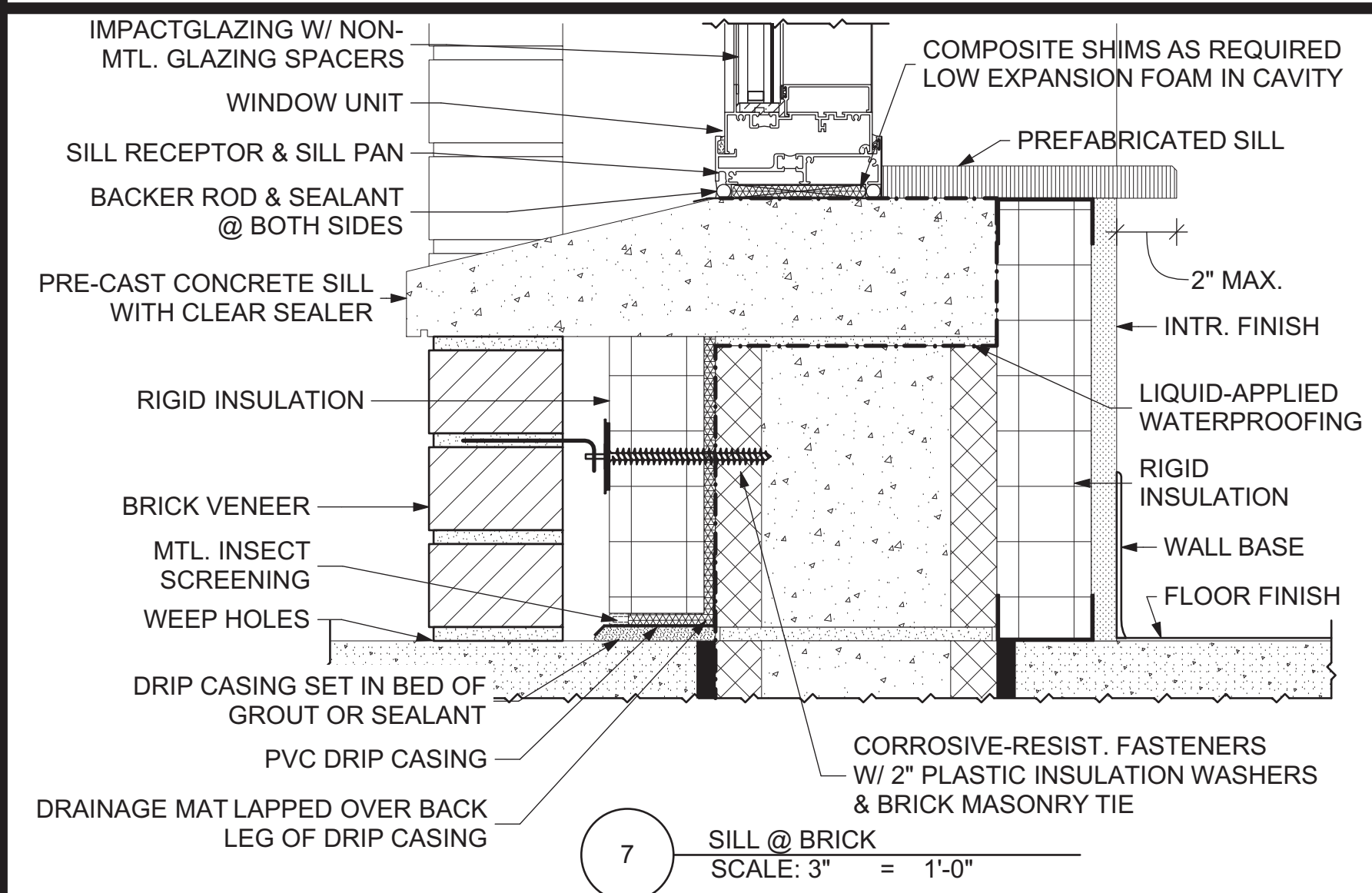
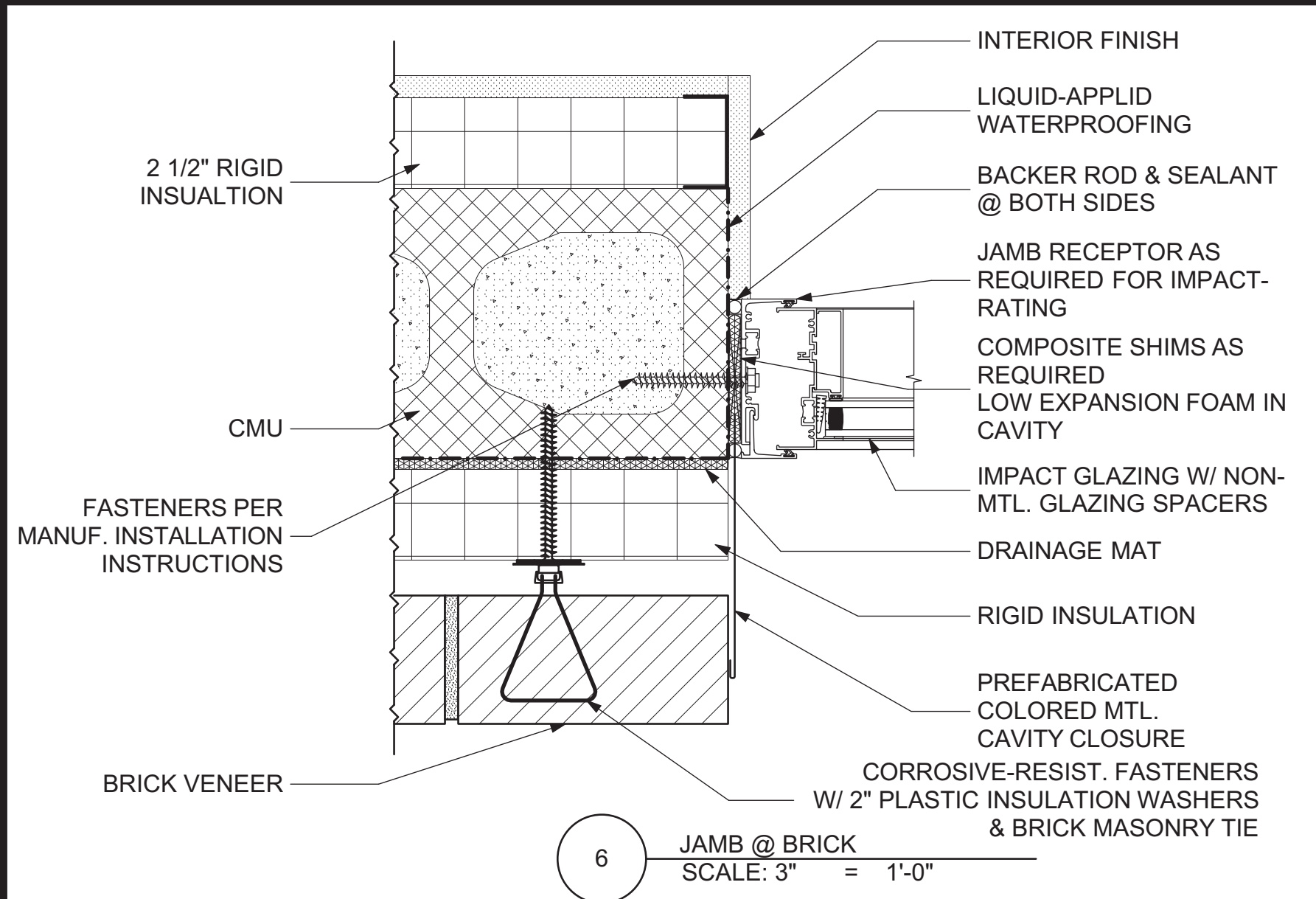
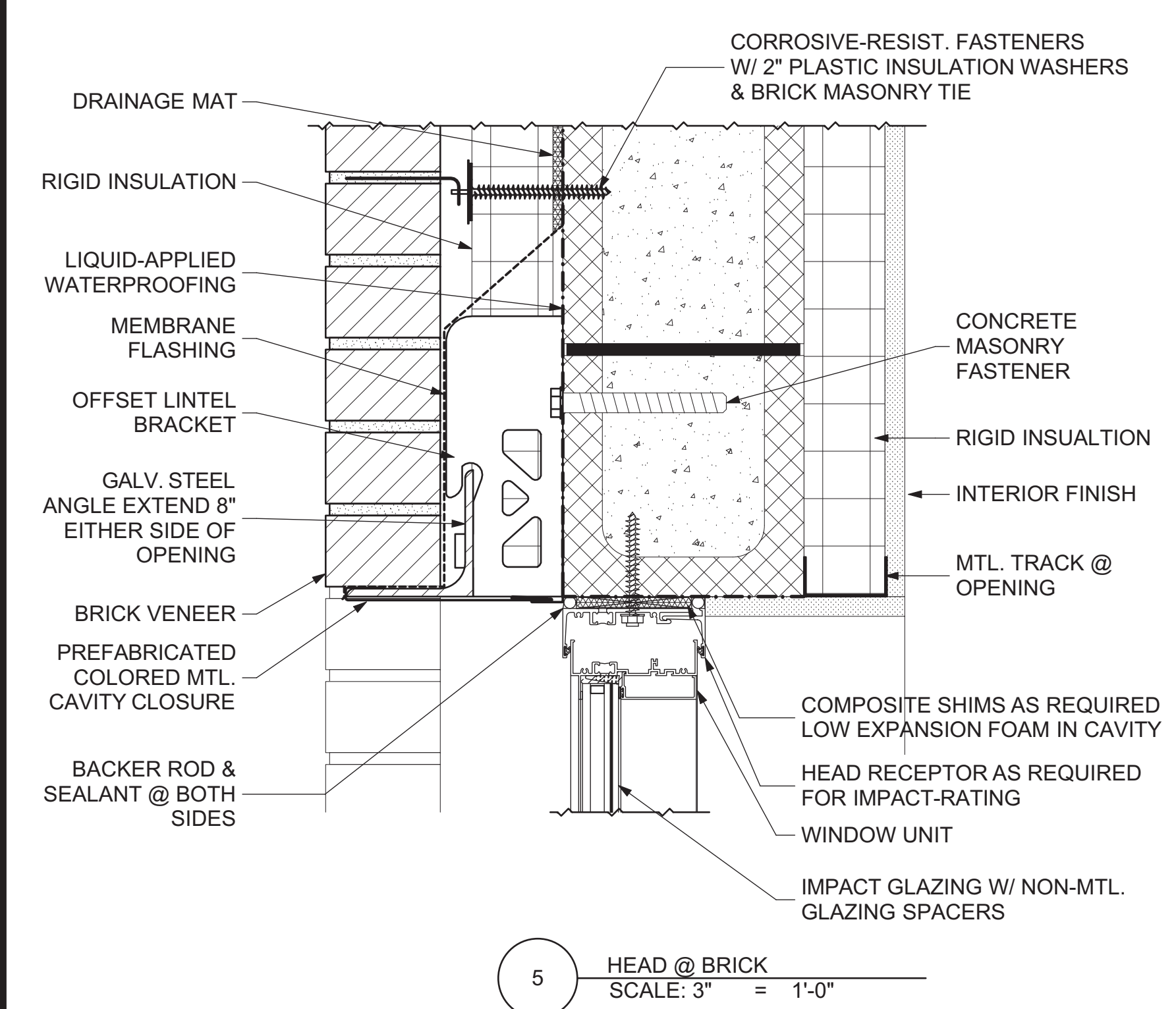
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WINDOW SCHEDULE										
ID	Unit Dimensions W X H	TYPE	DETAILS				TEMPERED	BASIS OF DESIGN		REMARKS
			HEAD DETAIL	JAMB DETAIL	SILL DETAIL	MANUFACTURER		MODEL		
W-01	2'-0"×6'-0"	FIXED	3   A6.02	1   A6.02	4   A6.02	<input type="checkbox"/>	KAWNEER	8400TL THERMAL WINDOWS		
W-02	2'-0"×2'-0"	FIXED	3   A6.02	1   A6.02	4   A6.02	<input type="checkbox"/>	KAWNEER	8400TL THERMAL WINDOWS		
W-03	4'-0"×1'-4"	FIXED	3   A6.02	1   A6.02	4   A6.02	<input type="checkbox"/>	KAWNEER	8400TL THERMAL WINDOWS	FROSTED   OBSCURED GLAZING	
W-04	8'-0"×8'-0"	FIXED	3 OR 5   A6.02	1 OR 6   A6.02	2 OR 7   A6.02	<input type="checkbox"/>	KAWNEER	8400TL THERMAL WINDOWS		
W-05	5'-4"×8'-0"	FIXED	3   A6.02	1   A6.02	4   A6.02	<input type="checkbox"/>	KAWNEER	8400TL THERMAL WINDOWS	FROSTED   OBSCURED GLAZING	
W-06	2'-4"×8'-8"	STOREFRONT	2   A6.03	4   A6.03	3   A6.03	<input checked="" type="checkbox"/>	KAWNEER	8400TL THERMAL WINDOWS		
WINDOW LEGEND										
Element ID	W-01	W-02	W-03	W-04	W-05	W-06				
WINDOW TYPE	FIXED	FIXED	FIXED	FIXED	FIXED	STOREFRONT				
ELEVATION										
DIMENSIONS	2'-0"×6'-0"	2'-0"×2'-0"	4'-0"×1'-4"	8'-0"×8'-0"	5'-4"×8'-0"	2'-4"×8'-8"				

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WINDOW ELEV., SCHED., DETAILS

REVISIONS

ID	DATE	DESCRIPTION

DATE

01/29/2025

DRAWN

IWP

CHECKED

BDH

JOB NO.

HDGA 2314

SIGNATURE & SEAL

STATE OF FLORIDA

BRET D. HAMMOND

ARCHITECT

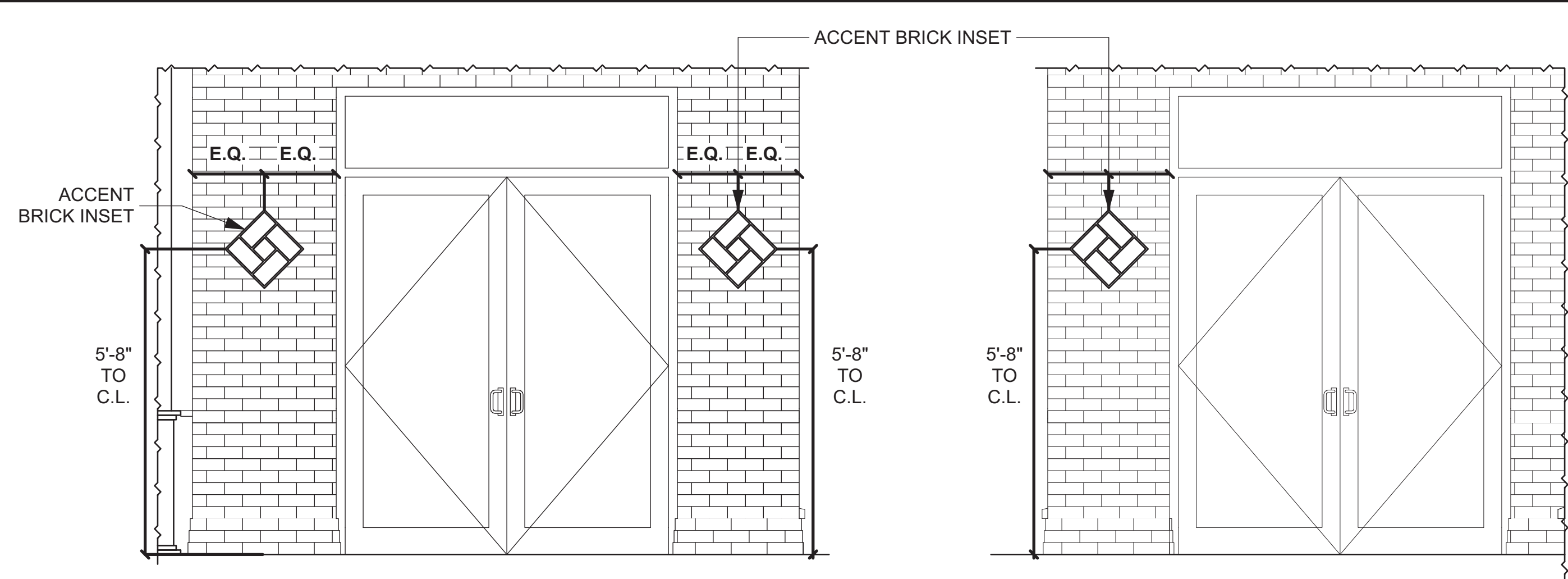
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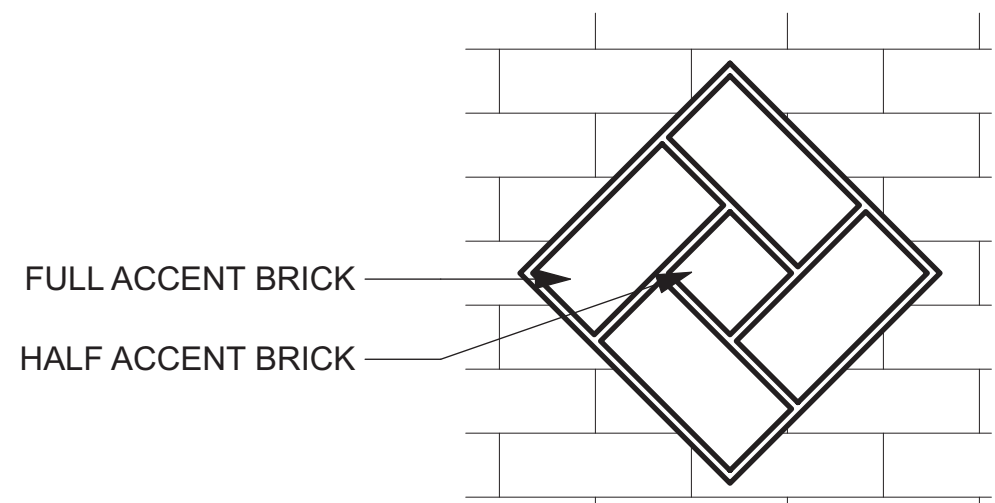
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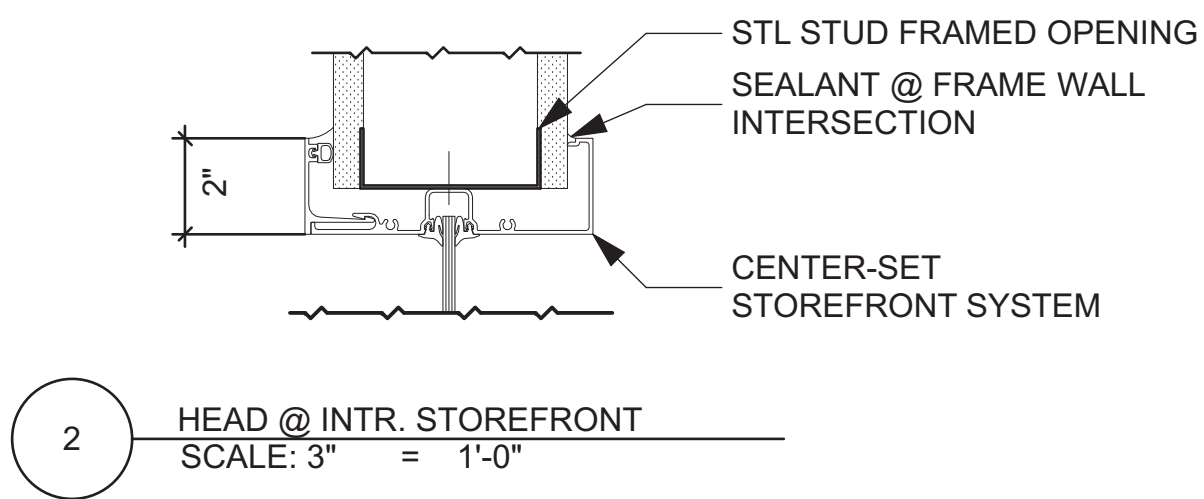


7 BRICK INSET WEST ELEVATION  
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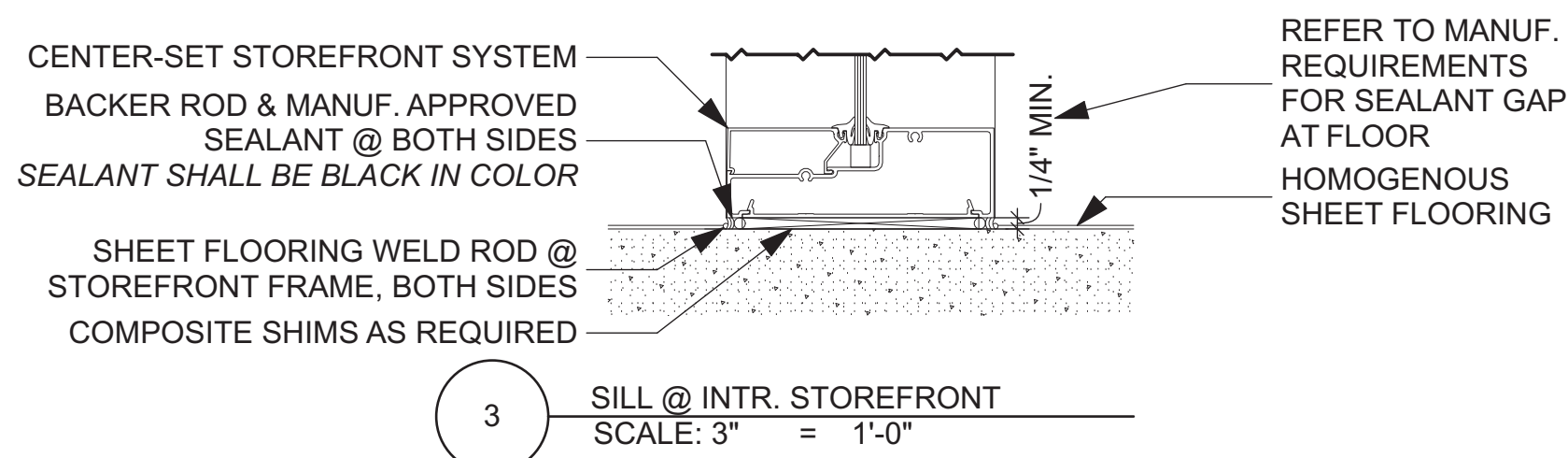
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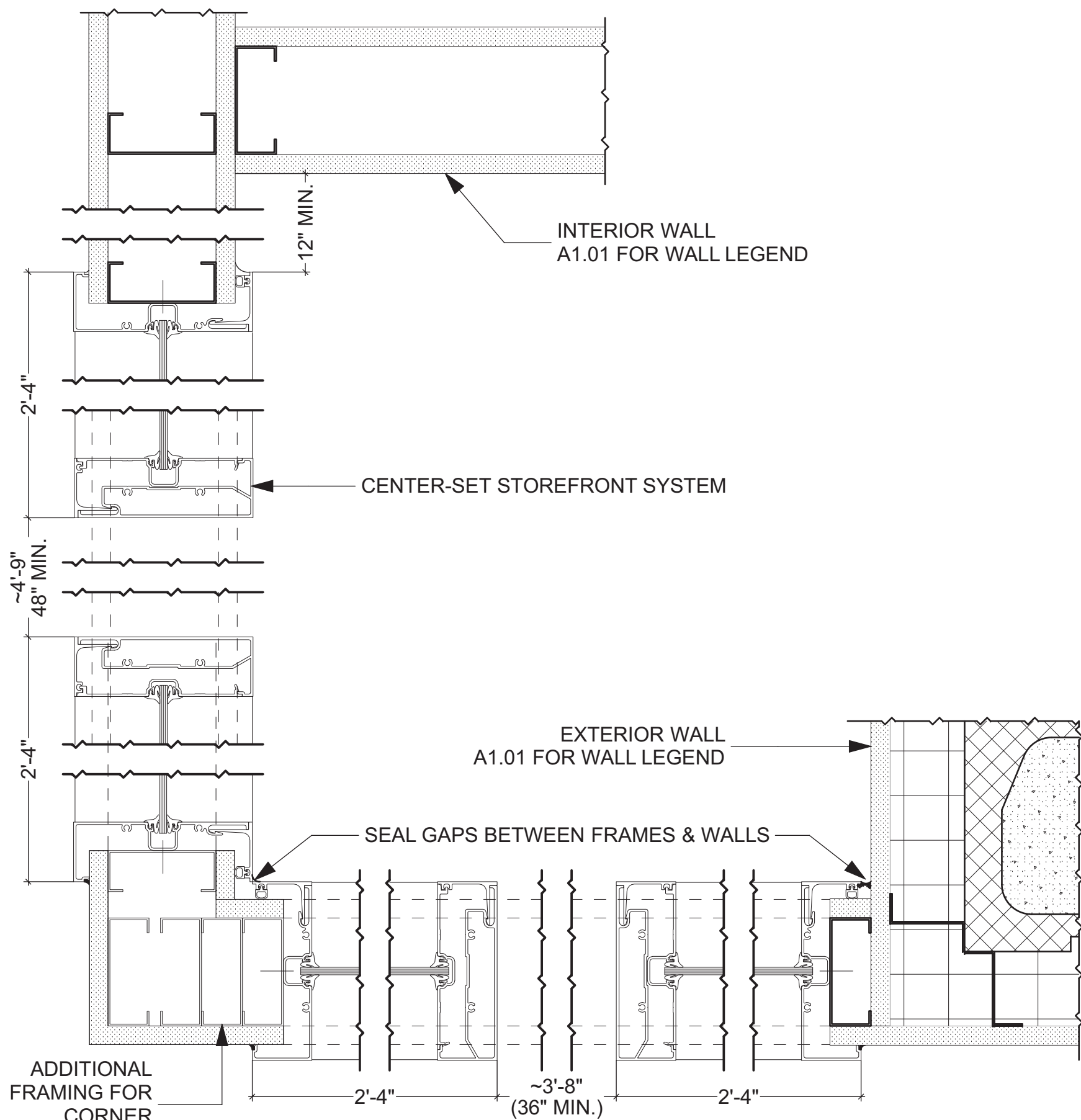
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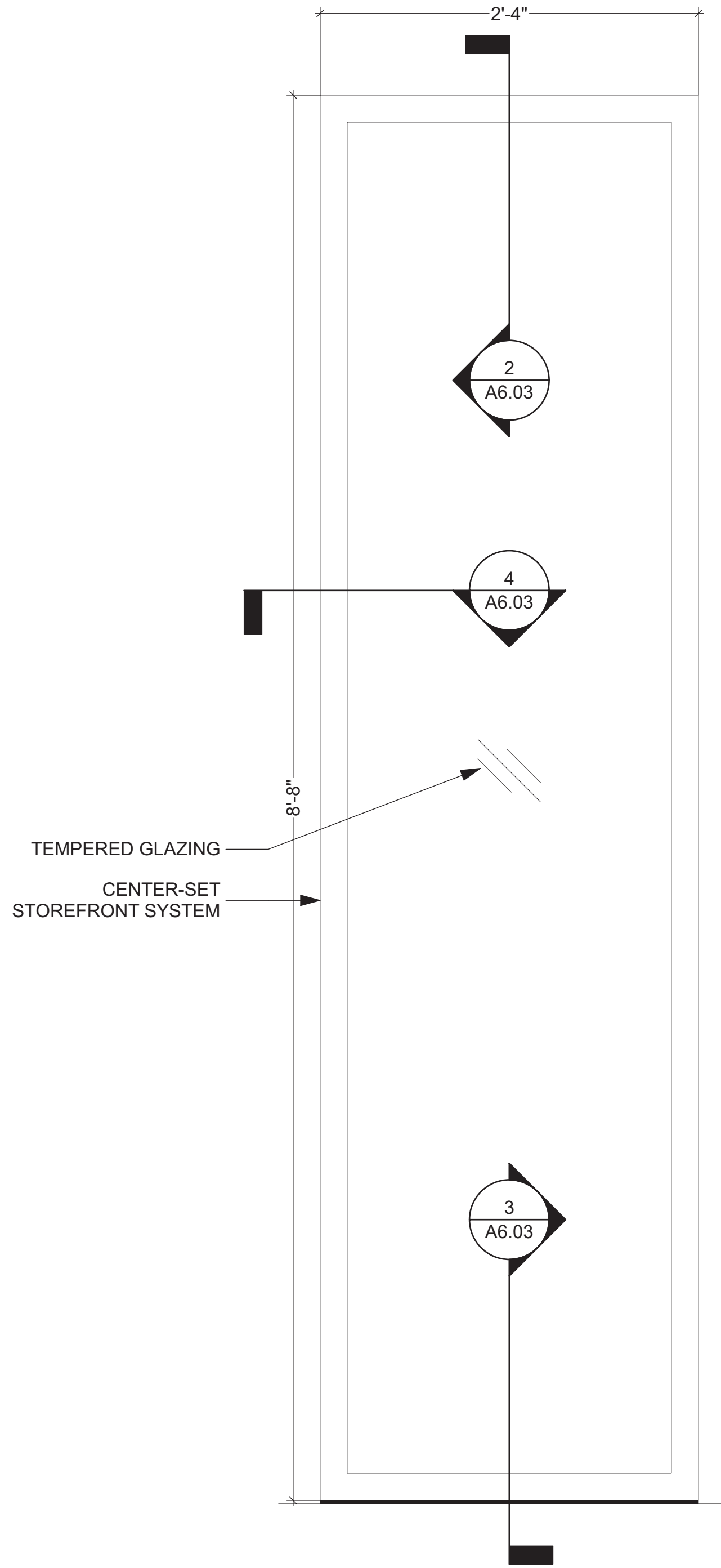
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SCALE: 3" = 1'-0"



3 SILL @ INTR. STOREFRONT  
SCALE: 3" = 1'-0"



4 JAMB @ INTR. STOREFRONT  
SCALE: 3" = 1'-0"



1 ELEVATION @ INTR. STOREFRONT  
SCALE: 1 1/2" = 1'-0"

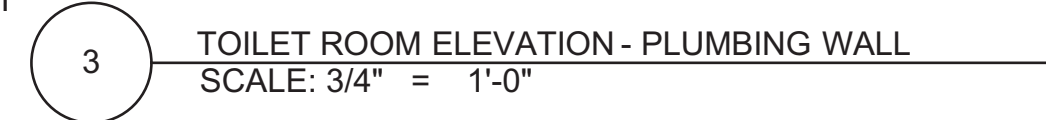
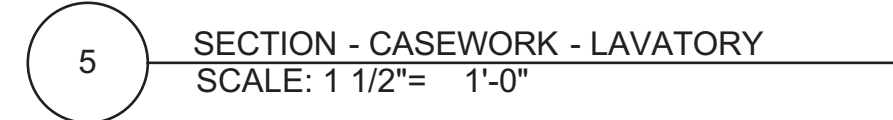
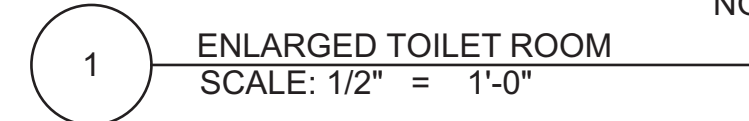
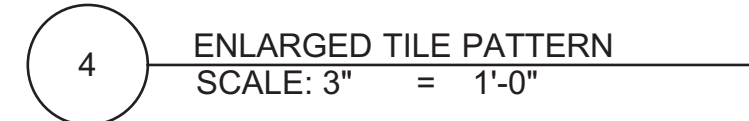
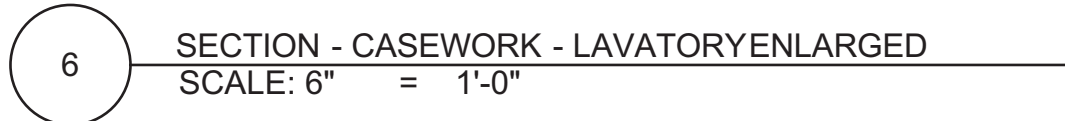
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ID	DATE	DESCRIPTION

DATE 01/29/2025  
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CHECKED BDH  
JOB NO. HDGA 2314

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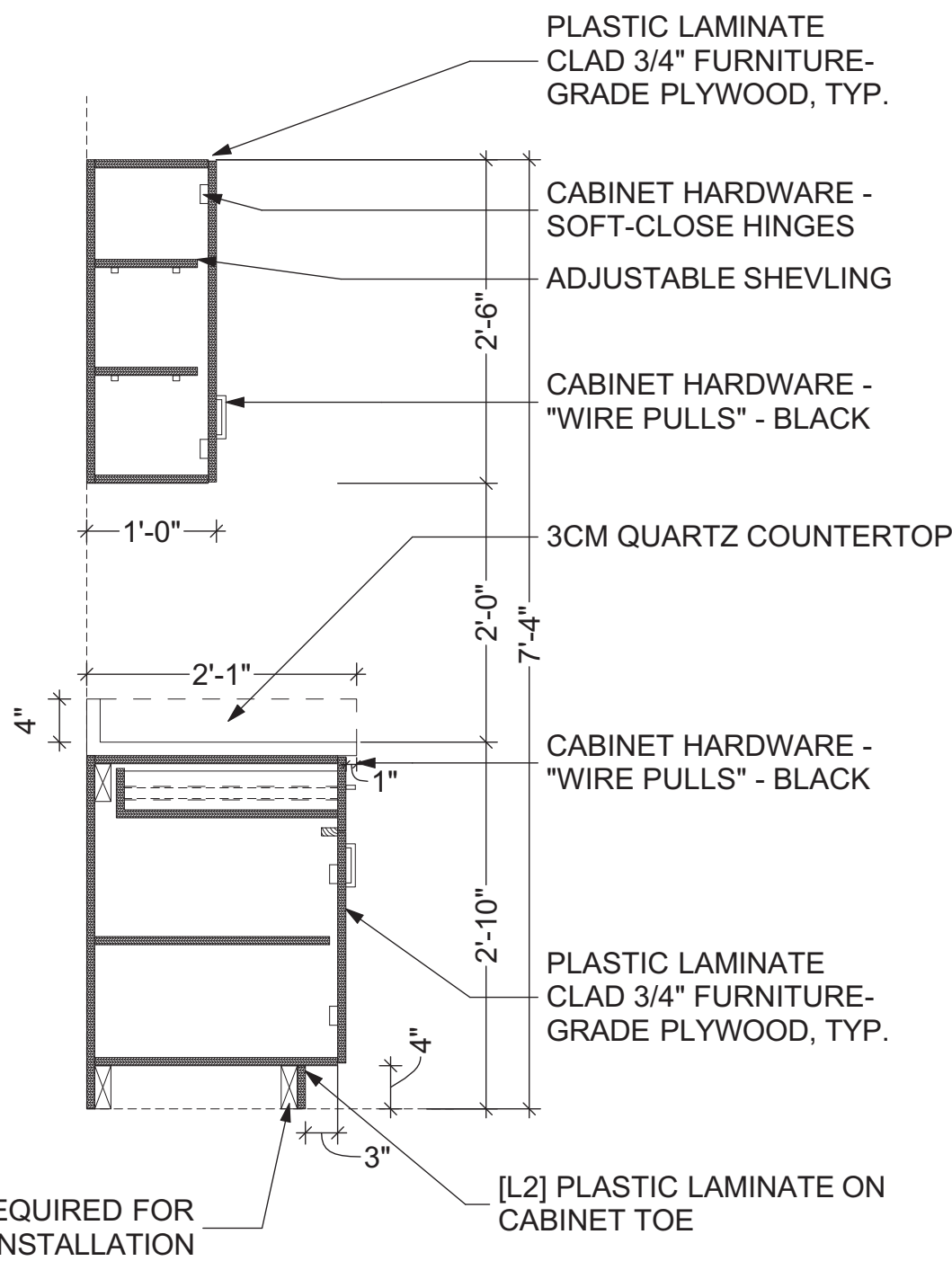
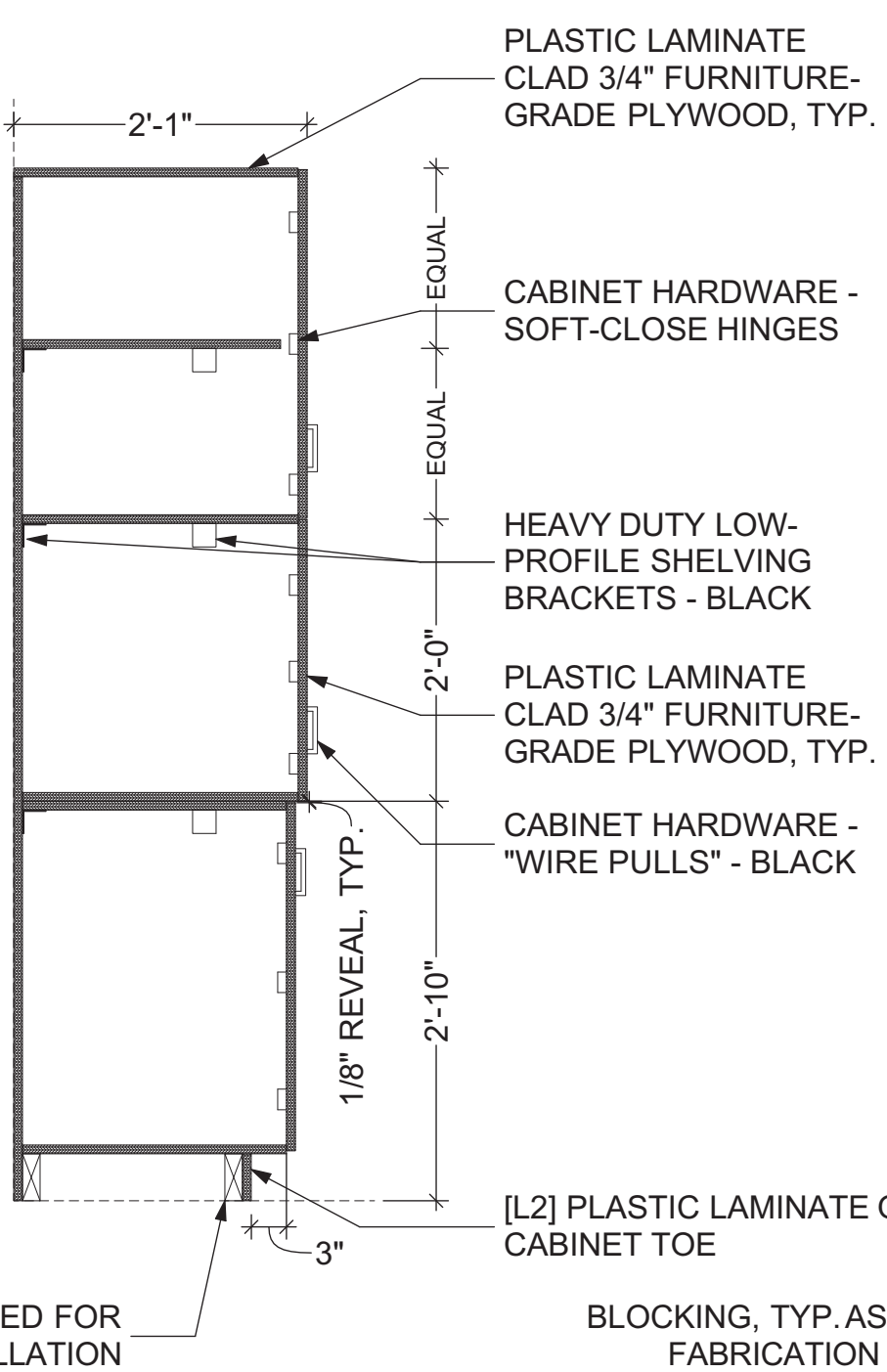
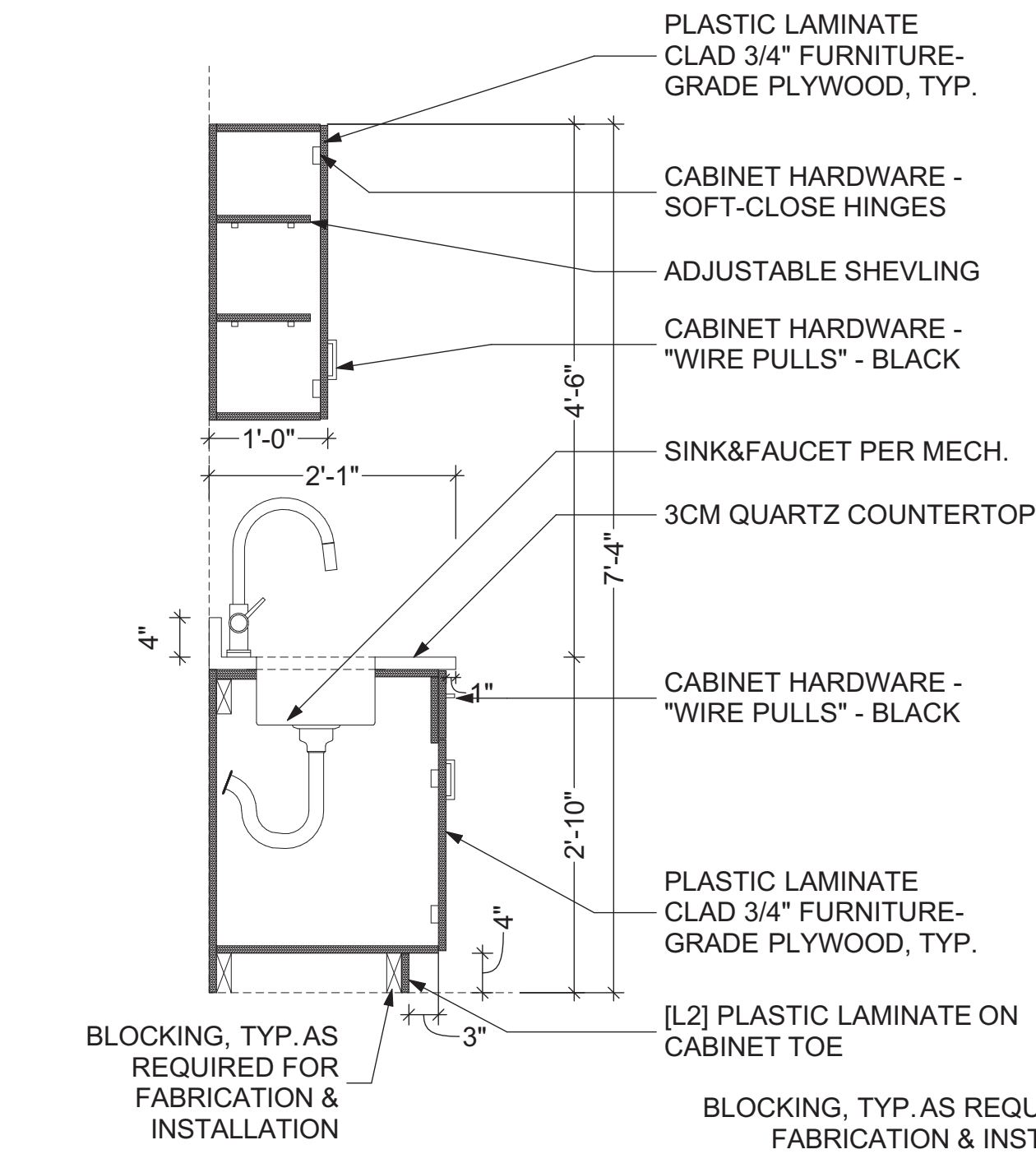
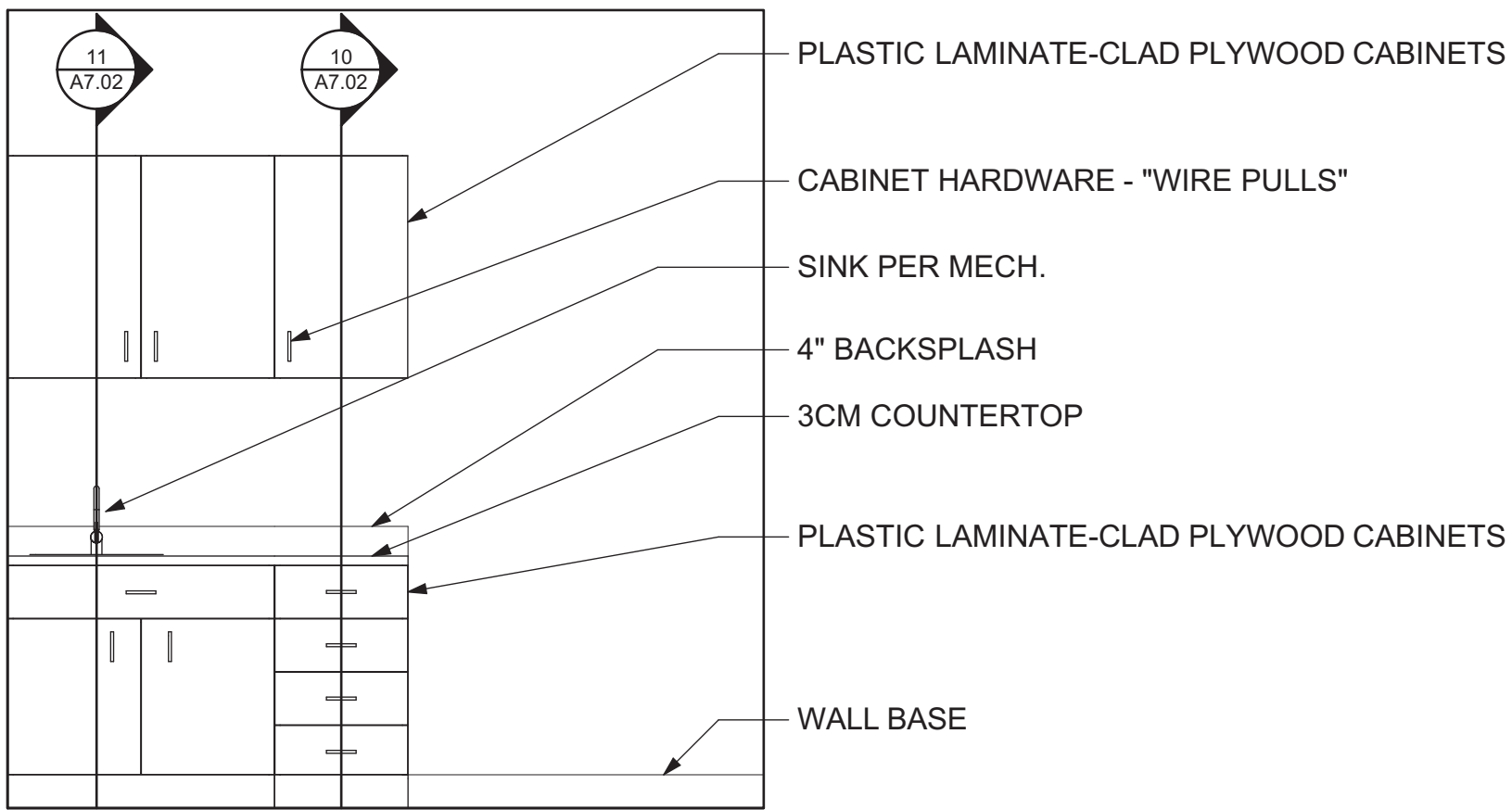
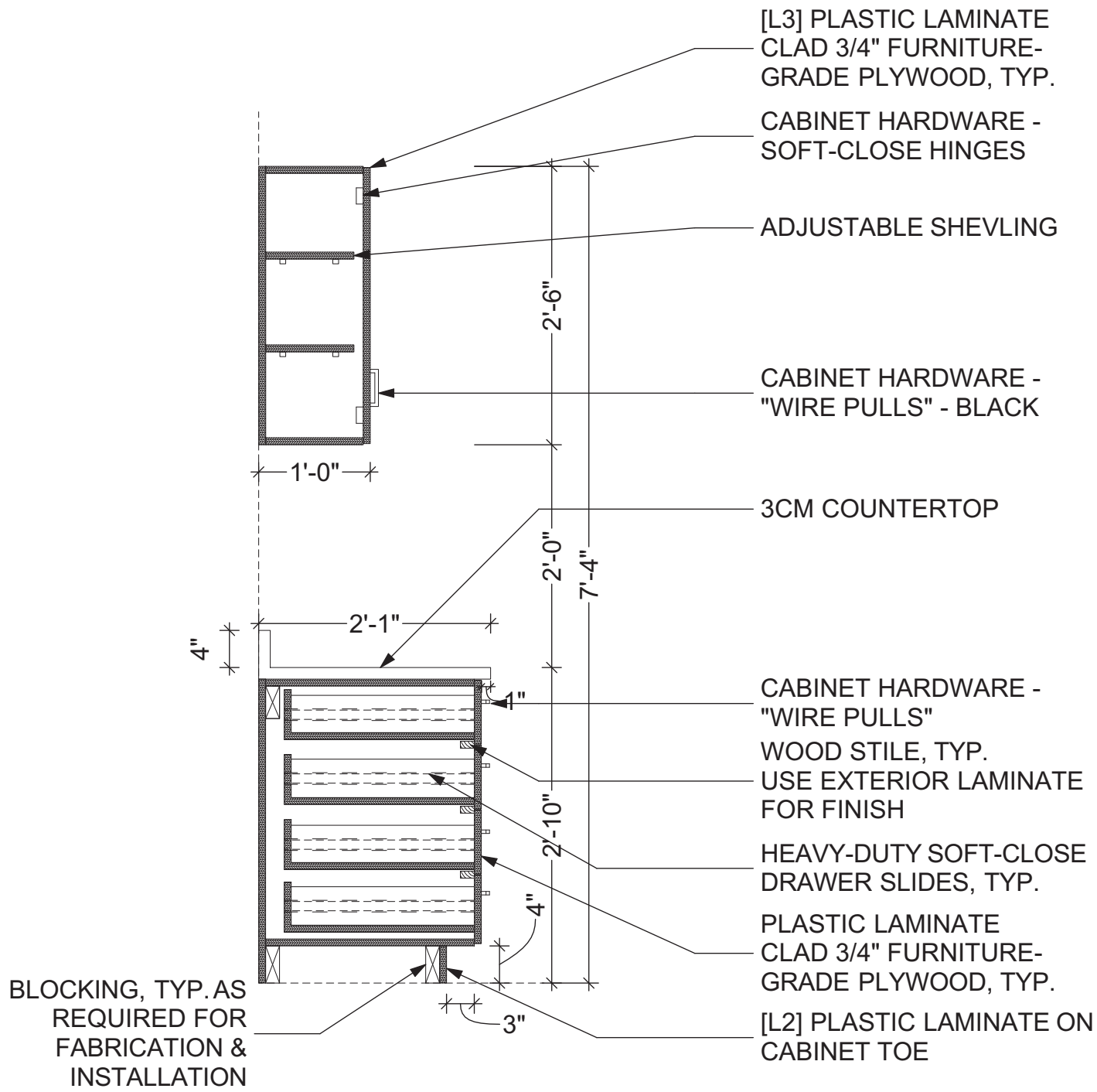
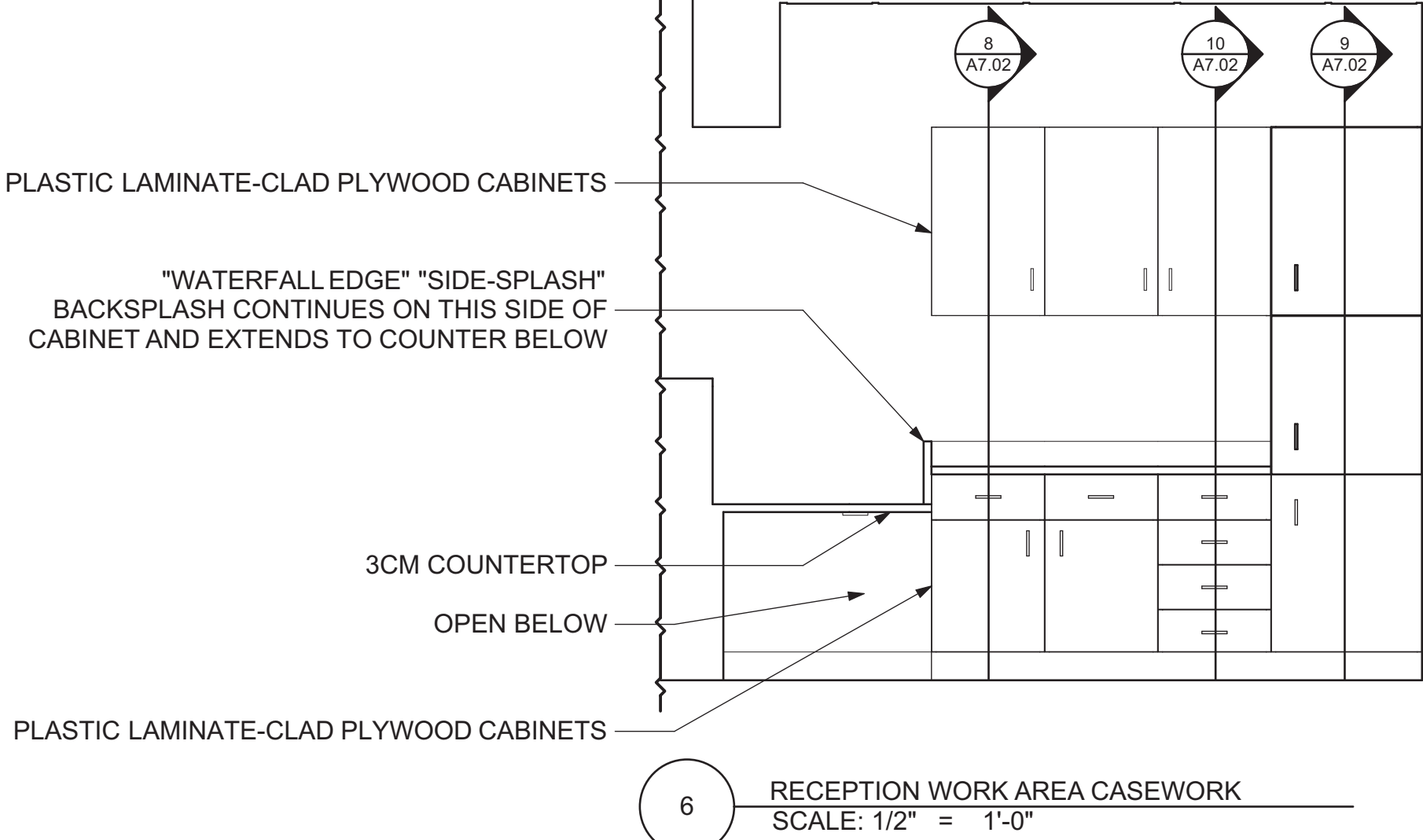
LAVATORY CASEWORK SHALL HAVE [L2] LAMINATE OVER EXTERIOR  
EXPOSED INTERIOR (HINGED ACCESS PANEL, BOTTOM & BACK FACES, ETC.) SHALL HAVE [L1] LAMINATE



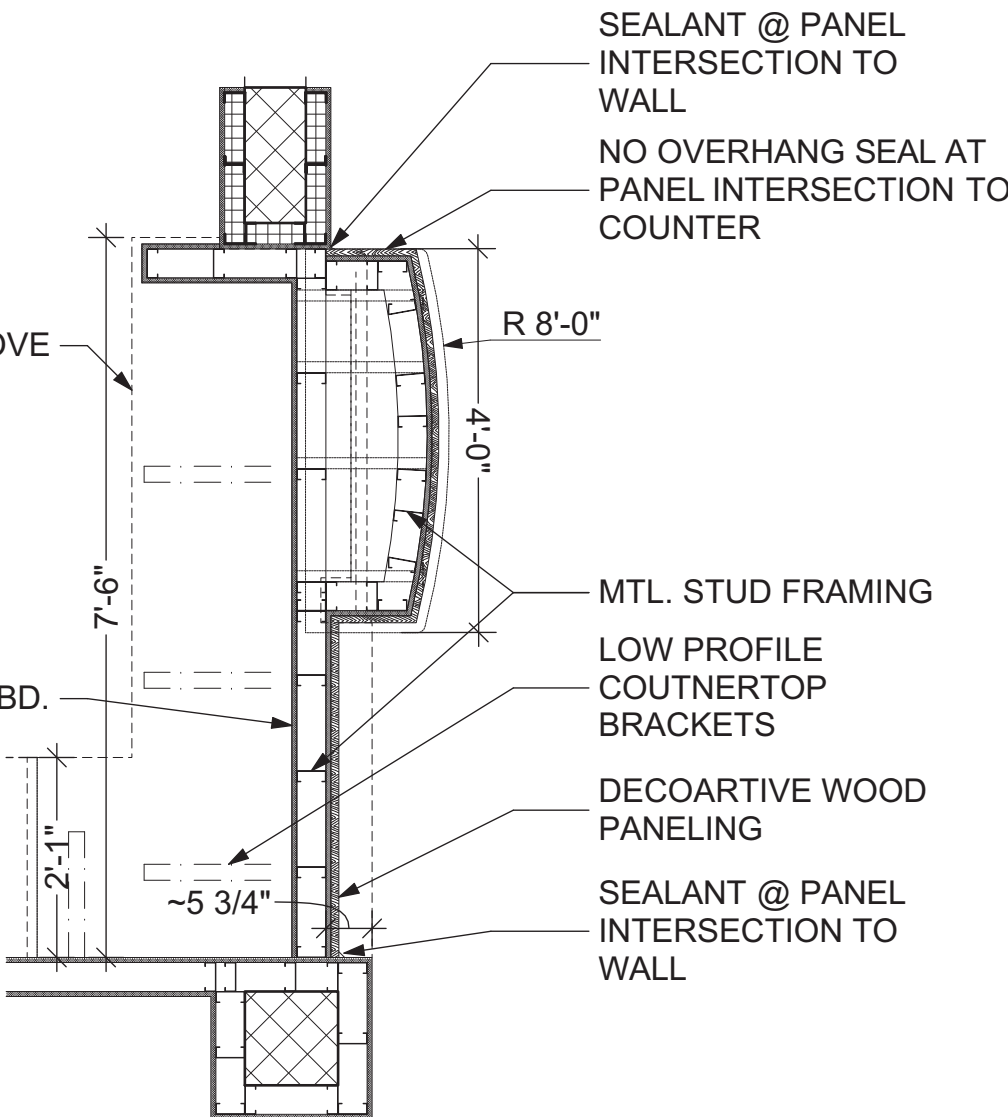
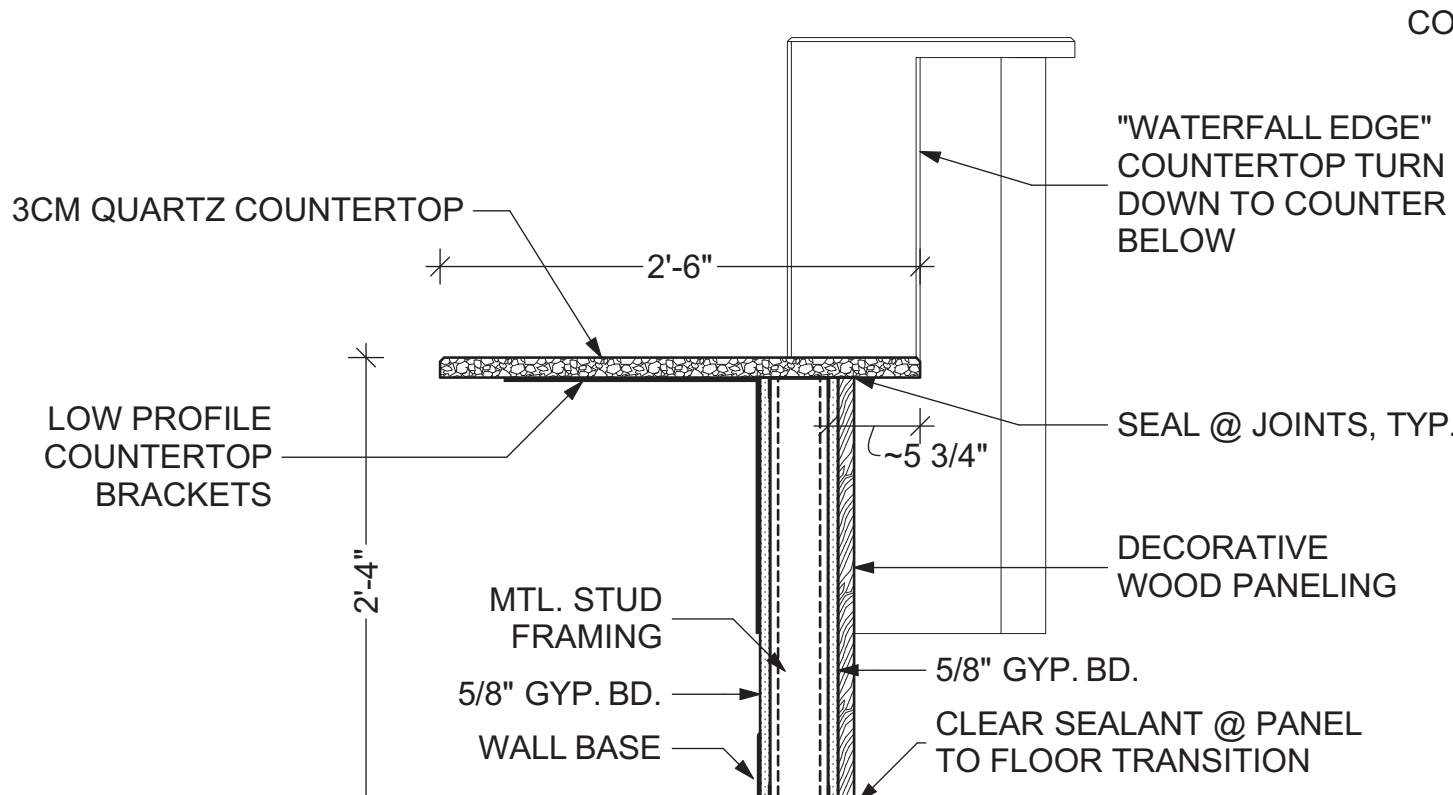
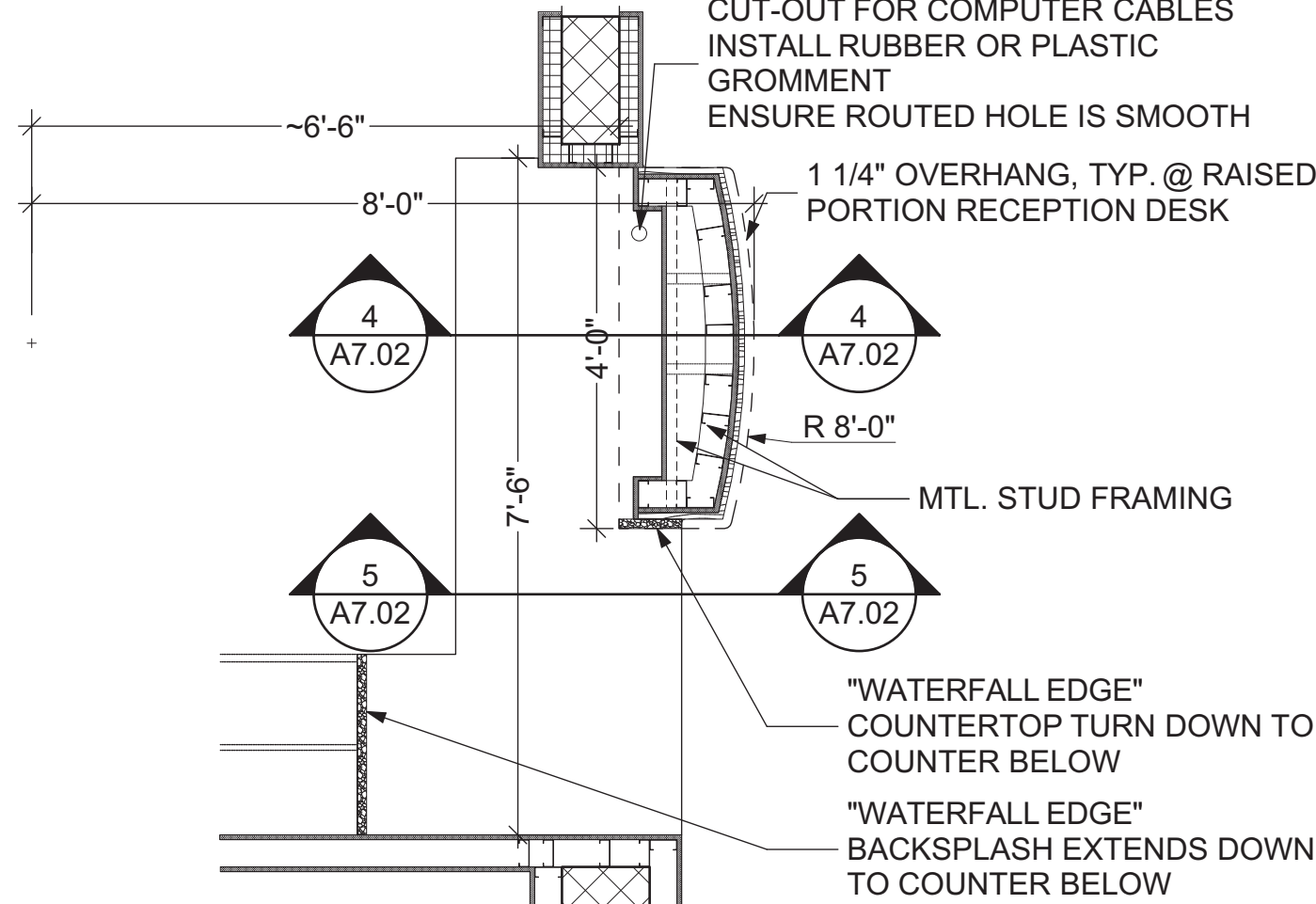
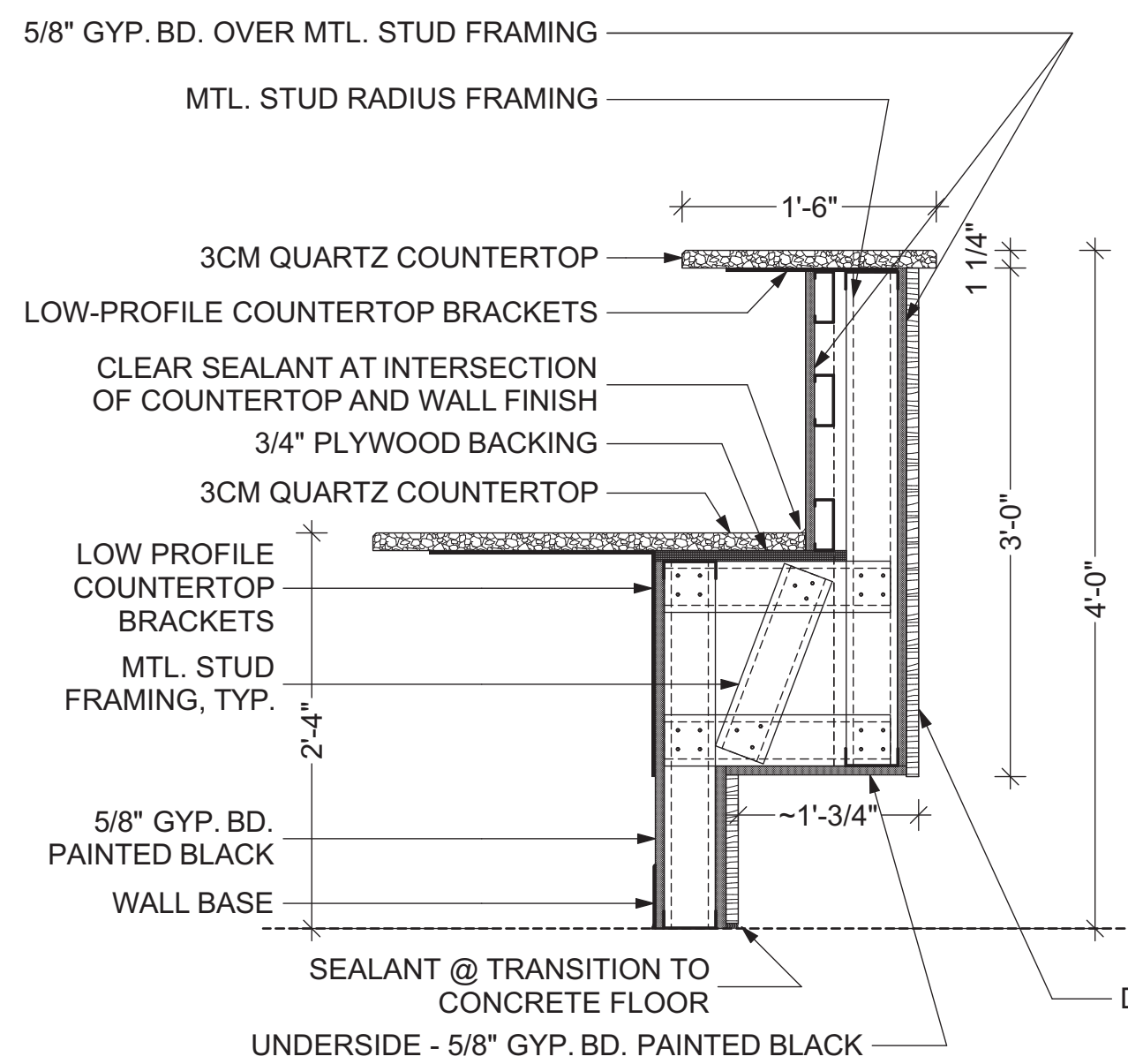
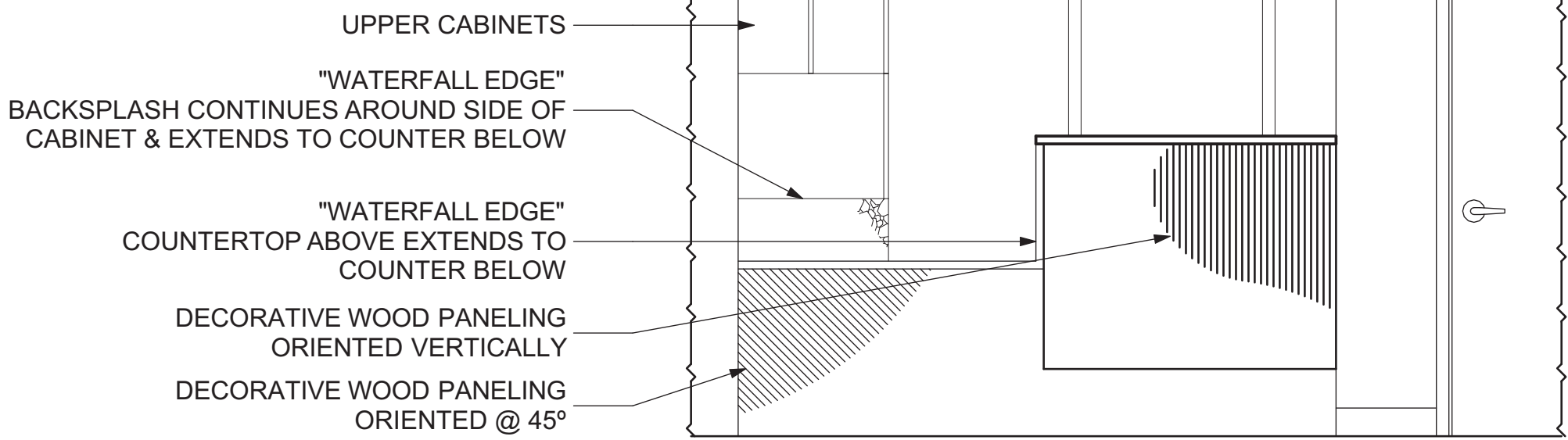
## A7.01



**GENERAL NOTES:**  
CASEWORK SHALL HAVE [L3] LAMINATE EXTERIOR & INTERIOR  
CASEWORK SHALL HAVE [L2] LAMINATE ON TOE (MATCHES WALL BASE)



**GENERAL NOTES:**  
RECEPTION COUNTER FRAMING SHOWN, IN PLAN/SECTIONAL DETAILS, IS A SINGLE DESIGN CONFIGURATION, USED TO SHOW ARCHITECTURAL INTENT & FINISHED-PRODUCT DESIGN.  
IT IS NOT A PRESCRIPTIVE DIAGRAM, OR SET OF INSTRUCTIONS, ON HOW TO CONSTRUCT THE BUILT-IN RECEPTION DESK.



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**100% CONSTRUCTION DOCUMENTS**  
**CASEWORK DETAILS**

REVISIONS		
ID	DATE	DESCRIPTION

**DATE** ■ 01/29/2025  
**DRAWN** ■ IWP  
**CHECKED** ■ BDH  
**JOB NO.** ■ HDGA 2314

**SIGNATURE & SEAL**

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**A7.02**



ELECTRICAL SPECIFICATIONS

BASIC ELECTRICAL MATERIALS AND METHODS

- ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- IDENTIFICATION DEVICE COLORS: USE THOSE PRESCRIBED BY ANSI A13.1, NFPA 70, AND THESE SPECIFICATIONS.
- COLOR ADHESIVE MARKING TAPE FOR RACEWAYS, WIRES, AND CABLES: SELF-ADHESIVE VINYL TAPE, NOT LESS THAN 1 INCH WIDE BY 3 MILS THICK (25 MM WDE BY 0.08 MM THICK).
- TAPE MARKERS FOR CONDUCTORS: VINYL OR VINYL-CLOTH, SELF-ADHESIVE, WRAPAROUND TYPE WITH PREPRINTED NUMBERS AND LETTERS.
- ENGRAVED-PLASTIC LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK, MELAMINE PLASTIC LAMINATE PUNCHED OR DRILLED FOR MECHANICAL FASTENERS 1/16-INCH (1.6-MM) MINIMUM THICKNESS FOR SIGNS UP TO 20 SQ. IN. (129 SQ. CM) AND 1/8-INCH (3.2-MM) MINIMUM THICKNESS FOR LARGER SIZES. ENGRAVED LEGEND IN BLACK LETTERS ON WHITE BACKGROUND.
- PULL STRINGS: PROVIDE PULL STRINGS IN ALL SPARE OR EMPTY CONDUITS AND RACEWAYS.
- COORDINATE NAMES, ABBREVIATIONS, COLORS, AND OTHER DESIGNATIONS USED FOR ELECTRICAL IDENTIFICATION WITH CORRESPONDING DESIGNATIONS INDICATED IN THE CONTRACT DOCUMENTS OR REQUIRED BY CODES AND STANDARDS. USE CONSISTENT DESIGNATIONS THROUGHOUT PROJECT.
- CUT, CHANNEL, CHASE, AND DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED. SLEEVE ALL CABLE PENETRATIONS OF WALLS. SEAL ALL CONDUIT PENETRATIONS.
- REPAIR, REFINISH AND TOUCH UP DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES.
- ALL WORK SHALL COMPLY WITH CODES AND STANDARDS LISTED ON PLANS.
- WITHIN 30 DAYS OF COMMENCEMENT, CONTRACTOR SHALL ARRANGE AND ATTEND A MEETING ON-SITE WITH A REPRESENTATIVE OF THE UTILITY TO COORDINATE REQUIREMENTS AND SCHEDULE FOR INSTALLATION OF NEW SERVICE.

GROUNDING AND BONDING

- EQUIPMENT GROUNDING CONDUCTORS: COMPLY WITH NFPA 70, ARTICLE 250, FOR TYPES, SIZES, AND QUANTITIES OF EQUIPMENT GROUNDING CONDUCTORS, UNLESS SPECIFIC TYPES, LARGER SIZES, OR MORE CONDUCTORS THAN REQUIRED BY NFPA 70 ARE INDICATED.
- INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS AND BRANCH CIRCUITS.
- ALL GROUNDING CONDUCTORS SHALL BE COPPER; COMPLY WITH DIVISION 16 SECTION "CONDUCTORS AND CABLES" AND ASTM B, AS APPLICABLE.
- EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED INSULATION.
- GROUNDING ELECTRODE CONDUCTORS: STRANDED COPPER CABLE.
- UNDERGROUND CONDUCTORS: BARE, TINNED, STRANDED, UNLESS OTHERWISE INDICATED.
- CONNECTORS: COMPLY WITH IEEE 837 AND UL 467; LISTED FOR USE FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND CONNECTED ITEMS.
- IN RACEWAYS, USE INSULATED EQUIPMENT GROUNDING CONDUCTORS.
- EXOTHERMIC-WELDED CONNECTIONS: USE FOR CONNECTIONS TO STRUCTURAL STEEL AND FOR UNDERGROUND CONNECTIONS.
- GROUNDING CONDUCTORS: ROUTE ALONG SHORTEST AND STRAIGHTEST PATHS POSSIBLE, UNLESS OTHERWISE INDICATED. AVOID OBSTRUCTING ACCESS OR PLACING CONDUCTORS WHERE THEY MAY BE SUBJECTED TO STRAIN, IMPACT, OR DAMAGE.
- BONDING STRAPS AND JUMPERS: INSTALL SO VIBRATION BY EQUIPMENT MOUNTED ON VIBRATION ISOLATION HANGERS OR SUPPORTS IS NOT TRANSMITTED TO RIGIDLY MOUNTED EQUIPMENT

CONDUCTORS AND CABLES

- CONDUCTOR MATERIAL: COPPER COMPLYING WITH NEMA WC 5 OR 7; SOLID CONDUCTOR FOR NO. 10 AWG AND SMALLER, STRANDED FOR NO. 8 AWG AND LARGER.
- CONDUCTOR INSULATION TYPES: TYPE THHN-THWN COMPLYING WITH NEMA WC 5 OR WC 7.
- TYPE MC CABLE SHALL BE PERMITTED IN CONCEALED LOCATIONS, WHERE PERMITTED BY CODE.
- BRANCH CIRCUITS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY; TYPE MC CABLE.
- CONCEAL CABLES AND RACEWAYS IN FINISHED WALLS, CEILINGS, AND FLOORS.
- USE MANUFACTURER-APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY; COMPOUND USED MUST NOT DEGRADATE CONDUCTOR OR INSULATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES.
- IN EXPOSED LOCATIONS, ALL CONDUCTORS AND CABLES SHALL BE INSTALLED IN RACEWAY.
- MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.
- WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 6 INCHES (150 MM) OF SLACK.

RACEWAYS AND BOXES

- PERMANENTLY LABEL ALL RACEWAYS AND JUNCTION/PULL BOX COVERS TO INDICATE PANEL/CIRCUIT NUMBERS CONTAINED.
- UNLESS OTHERWISE NOTED, PROVIDE NEMA 1 ENCLOSURES IN INDOOR LOCATIONS, NEMA 3R ENCLOSURES IN OUTDOOR LOCATIONS.
- MINIMUM RACEWAY SIZE: 1/2" TRADE SIZE.
- KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARALLEL RUNS OF HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING.
- PROTECT STUB-UPS FROM DAMAGE WHERE CONDUITS RISE THROUGH FLOOR SLABS. ARRANGE SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE FINISHED SLAB.
- MAKE BENDS AND OFFSETS SO ID IS NOT REDUCED. KEEP LEGS OF BENDS IN SAME PLANE AND KEEP STRAIGHT LEGS OF OFFSETS PARALLEL, UNLESS OTHERWISE INDICATED.
- CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS, CEILINGS, AND FLOORS WHERE PRACTICAL.
- INSTALL EXPOSED RACEWAYS PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE.
- INSTALL RACEWAY SEALING FITTINGS AT SUITABLE, APPROVED, AND ACCESSIBLE LOCATIONS AND FILL THEM WITH UL-LISTED SEALING COMPOUND. INSTALL RACEWAY SEALING FITTINGS WHERE CONDUITS PASS FROM WARM TO COLD LOCATIONS, SUCH AS BOUNDARIES OF REFRIGERATED SPACES AND WHERE OTHERWISE REQUIRED BY NFPA 70.
- FLEXIBLE CONNECTIONS: USE MAXIMUM OF 72 INCHES (1830 MM) OF FLEXIBLE CONDUIT FOR RECESSED AND SEMIRECESSED LIGHTING FIXTURES; FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR ALL MOTORS. USE LFMC IN DAMP OR WET LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.
- FOR EMT, PROVIDE COMPRESSION TYPE FITTINGS/COUPLINGS.

WIRING DEVICES

- STRAIGHT-BLADE-TYPE RECEPTACLES: COMPLY WITH NEMA WD 1, NEMA WD 6, DSCC W-C-596G, AND UL 498. STRAIGHT-BLADE AND LOCKING RECEPTACLES: HEAVY-DUTY GRADE.
- GFCI RECEPTACLES: STRAIGHT BLADE, HEAVY-DUTY GRADE, WITH INTEGRAL NEMA WD 6, CONFIGURATION 5-20R DUPLEX RECEPTACLE, COMPLYING WITH UL 498 AND UL 943.
- SINGLE- AND DOUBLE-POLE SWITCHES: COMPLY WITH DSCC W-C-896F AND UL 20.
- SNAP SWITCHES: HEAVY-DUTY GRADE, QUIET TYPE.
- DIMMERS SHALL BE SLIDE-TYPE, WITH PRESET. DIMMERS SHALL BE RATED FOR THE LOAD TYPE CONTROLLED (E.G., INCANDESCENT, LED, FLUORESCENT). DIMMERS SHALL BE RATED FOR 500W, MINIMUM; DERATE, AS PER MANUFACTURER'S RECOMMENDATIONS, FOR GANG INSTALLATION.
- DEVICE & COVERPLATE FINISH: MATCH EXISTING, UNLESS OTHERWISE INDICATED OR REQUIRED BY NFPA 70.
- INSTALL DEVICES AND ASSEMBLIES LEVEL, PLUMB, AND SQUARE WITH BUILDING LINES.
- ARRANGEMENT OF DEVICES: UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.
- REMOVE WALL PLATES AND PROTECT DEVICES AND ASSEMBLIES DURING PAINTING.
- AFTER INSTALLING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS.
- TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ALL 15A/120V AND 20A/120V RECEPTACLES SHALL BE TAMPER-RESISTANT.

ENCLOSED SWITCHES

- ENCLOSED SWITCHES SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER, GE, OR SIEMENS.
- ALL ENCLOSED SWITCHES SHALL BE LOCKABLE.
- MOUNT INDIVIDUAL WALL-MOUNTING SWITCHES WITH TOPS AT UNIFORM HEIGHT, UNLESS OTHERWISE INDICATED.
- ENCLOSED SWITCHES SHALL BE UL LISTED FOR THE APPLICATION USED; ENCLOSURES SHALL BE NEMA-3R UNLESS NOTED OTHERWISE.
- MOTOR STARTERS SHALL BE NEMA-RATED, WITH OVERLOADS SIZED PER LOAD. COORDINATE COIL VOLTAGE WITH CONTROLS.

PANELBOARDS

- MANUFACTURERS: PANELBOARDS SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER, GE, OR SIEMENS.
- ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS. NEMA PB 1, TYPE 1.
- PHASE AND GROUND BUSES: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
- CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL.
- SERVICE EQUIPMENT LABEL: UL LABELED FOR USE AS SERVICE EQUIPMENT FOR PANELBOARDS WITH MAIN SERVICE DISCONNECT SWITCHES.
- FUTURE DEVICES: MOUNTING BRACKETS, BUS CONNECTIONS, AND NECESSARY APPURTENANCES REQUIRED FOR FUTURE INSTALLATION OF DEVICES.
- PANELBOARD SHORT-CIRCUIT RATING: SERIES RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS.
- MAIN OVERCURRENT PROTECTIVE DEVICES: CIRCUIT BREAKER.
- MOLDED-CASE CIRCUIT BREAKER: UL 489, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS.
- MOUNT TOP OF TRIM 74 INCHES (1880 MM) ABOVE FINISHED FLOOR, UNLESS OTHERWISE INDICATED.
- MOUNT PLUMB AND RIGID WITHOUT DISTORTION OF BOX. MOUNT RECESSED PANELBOARDS WITH FRONTS UNIFORMLY FLUSH WITH WALL FINISH.
- INSTALL FILLER PLATES IN UNUSED SPACES.
- PROVIDE NEW TYPE-WRITTEN PANEL DIRECTORIES, SHOWING ALL EXISTING AND NEW CIRCUITS.
- PANELBOARD NAMEPLATES: LABEL EACH PANELBOARD WITH ENGRAVED METAL OR LAMINATED-PLASTIC NAMEPLATE MOUNTED WITH CORROSION-RESISTANT SCREWS.
- WHERE BREAKER IS SERVING HARD-WIRED APPLIANCE WITHOUT A SEPARATE DISCONNECT, PROVIDE A PERMANENTLY INSTALLED PROVISION TO LOCK THE BREAKER IN THE "OFF" POSITION.

LIGHTING

- LIGHTING FIXTURES: PER FIXTURE SCHEDULE ON PROJECT PLANS. CONTACT NATIONAL ACCOUNTS VENDOR LISTED IN LIGHTING NOTES.
- WHERE EXIT SIGNS ARE USED, THEY SHALL BE LED-TYPE.
- FIXTURES: SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS. INSTALL LAMPS IN EACH FIXTURE.
- FOR EMERGENCY LIGHTING FIXTURES, PROVIDE UNSWITCHED HOT CONDUCTOR AS INDICATED ON THE PLANS.
- PROVIDE ALL BACKBOXES, SUPPORTS, STEMS, ROUGH-INS, TRIMS, HARDWARE, LAMPS, DRIVERS, AND BALLASTS FOR A COMPLETE AND FUNCTIONAL INSTALLATION.

ENERGY CONSERVATION REQUIREMENTS:

- WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION, CONTRACTOR SHALL PROVIDE RECORD DRAWINGS, OPERATING MANUAL, AND MAINTENANCE MANUALS TO THE BUILDING OWNER.
- RECORD DRAWINGS SHALL INCLUDE: A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM; AND FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
- CONTRACTOR SHALL PROVIDE OPERATION MANUALS AND MAINTENANCE MANUALS TO THE OWNER FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE; REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- CONTRACTOR SHALL PROVIDE TO THE OWNER NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
- CONTRACTOR SHALL CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR ALL OCCUPANCY SENSORS YIELD ACCEPTABLE RESULTS.
- CONTRACTOR SHALL CONFIRM THAT TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
- WHERE DAYLIGHT HARVESTING IS USED, CONTRACTOR SHALL CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.
- CONTRACTOR SHALL PROGRAM AND ADJUST ALL CONTROLS AS NEEDED TO ACHIEVE PERFORMANCE THAT IS SATISFACTORY TO THE OWNER.
- CONTRACTOR SHALL TEST ALL LIGHTING CONTROL SYSTEMS TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS.
- FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE ENERGY CONSERVATION SECTIONS C408.3.1.1 AND C408.3.1.2 FOR THE APPLICABLE CONTROL TYPE, AND CONTRACTOR SHALL DOCUMENT TESTING AS FOLLOWS: FOR EACH ITEM LISTED IN SECTION C408.3.1.1 AND C408.3.1.2, CONTRACTOR SHALL LIST THE TEST REQUIREMENT, INDICATE THAT THE TEST WAS "PASSED" OR WAS "NOT APPLICABLE" TO THE PROJECT; DOCUMENT SHALL BE SIGNED AND DATED BY THE TECHNICIAN PERFORMING THE TEST, AND ELECTRONIC COPY SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO SUBSTANTIAL COMPLETION.
- DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA OF FLORIDA BUILDING CODE ENERGY CONSERVATION SECTION C405 ARE TO BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

CODES AND STANDARDS

NFPA 70 NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION

NFPA 72 NATIONAL FIRE ALARM CODE, 2019 EDITION

FLORIDA FIRE PREVENTION CODE, EIGHTH EDITION.

FLORIDA BUILDING CODE, EIGHTH EDITION.

ELECTRICAL LEGEND



2 X 2 LIGHT FIXTURE.



RECESSED CAN LIGHTING FIXTURE.



EMERGENCY WALL PACK.



TRACK LIGHTING.



DECORATIVE PENDANT TYPE FIXTURE.



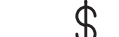
COMBINATION LED EXIT SIGN AND EMERGENCY AREA LIGHT WITH INTEGRAL BATTERY. PROVIDE UNSWITCHED HOT CONDUCTOR.



LED EXIT LIGHT, SAME AS ABOVE, WALL MOUNTED



WALL-MOUNTED EMERGENCY LIGHTING FIXTURE, WITH INTEGRAL BATTERY. PROVIDE UNSWITCHED HOT CONDUCTOR.



120V/20A QUIET-TYPE SNAP SWITCH. SWITCHES SHALL BE MOUNTED 44" A.F.F. UNLESS NOTED OTHERWISE. "3" INDICATES 3-WAY SWITCH.



LIGHTING CONTROL DIMMER (SLIDE-TYPE, WITH PRESET). COORDINATE TYPE WITH LIGHTING FIXTURES TO BE CONTROLLED. PROVIDE LOW-VOLTAGE WIRING AS REQUIRED FOR 0-10V DIMMABLE FIXTURES. VERIFY FINISH WITH ARCHITECT. LOWER CASE SUB-SCRIPT "o" INDICATES DEVICES CONTROLLED. MOUNT 44" A.F.F.



WALL-SWITCH WITH OCCUPANCY SENSOR; MOUNT 44" A.F.F., UNLESS NOTED OTHERWISE. WATTSTOPPER #PW-301, OR APPROVED EQUAL.



ROOM OCCUPANCY SENSOR (LOW-VOLTAGE). UNLESS NOTED OTHERWISE, CEILING MOUNTED WATTSTOPPER #DT-300, OR APPROVED EQUAL. PROVIDE ROOM CONTROLLER(S) (#BZ-250) AS REQUIRED. LOWER CASE LETTER "o" INDICATES DEVICES CONTROLLED.



24 HOUR/7 DAY PROGRAMMABLE ASTRONOMICAL TIME CLOCK (WITH BATTERY BACKUP) AS MANUFACTURED BY TORK OR APPROVED EQUAL. PROVIDE CONTACTOR(S) AS REQUIRED TO SERVE ALL CIRCUITS SHOWN.



20A/120V DUPLEX RECEPTACLE. MOUNT AT 18" A.F.F., UNLESS NOTED OTHERWISE.



20A/120V DUPLEX RECEPTACLE. MOUNT AT 44" A.F.F., UNLESS NOTED OTHERWISE.



120V/20A DUPLEX RECEPTACLE, WITH INTEGRAL GFI PROTECTION. RECEPTACLES SHALL BE MOUNTED 18" A.F.F., UNLESS NOTED OTHERWISE. "WP" INDICATES CAST-ALUMINUM WEATHERPROOF IN USE COVER.



120V/20A DUPLEX RECEPTACLE, WITH INTEGRAL GFI PROTECTION. RECEPTACLES SHALL BE MOUNTED 44" A.F.F. UNLESS NOTED OTHERWISE.



DUAL-SERVICE RECESSED FLOORBOX, WITH DUPLEX RECEPTACLE, DATA OUTLET AND FLUSH COVER. CONTRACTOR TO VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. PROVIDE (1) 3/4" C. (COMMS) TO CBB.



ENCLOSED SAFETY SWITCH, RATING AND CIRCUITING AS INDICATED ON THE PLANS. FIELD-LOCATE TO ASSURE 36" FRONT CLEARANCE.



ELECTRICAL PANEL. SEE RISER & PANEL SCHEDULES.



CIRCUIT CONDUCTORS IN CONDUIT OR CABLE. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. 120V CIRCUIT HOMERUNS LONGER THAN 100FT SHALL BE #10 AWG, MINIMUM. PROVIDE DEDICATED GREEN EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS. MC CABLE ALLOWED IN CONCEALED LOCATIONS, WHERE ALLOWED BY CODE.



CONDUCTORS IN CONDUIT, CONCEALED IN WALLS, CEILING, OR BELOW GRADE. HOMERUN TO PANEL INDICATED.



CEILING-MOUNTED EXHAUST FAN. COORDINATE WITH MECHANICAL.



COMMUNICATIONS OUTLET, MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE RECESSED DEVICE BOX, WITH 3/4" EMT (NYLON BUSHING) TO ACCESSIBLE CEILING.



2'x 4' COMMUNICATIONS BACKBOARD, 3/4" PLYWOOD PAINTED WITH 2 COATS FIRE RETARDANT PAINT.

ABBREVIATIONS

AFF ABOVE FINISHED FLOOR.

C CONDUIT.

GND GROUND.

WP WEATHERPROOF.



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CITY OF APALACHICOLA

AFRICAN-AMERICAN CULTURAL HISTORY MUSEUM

100% CONSTRUCTION DOCUMENTS

ELECTRICAL LEGEND & NOTES

REVISIONS		
ID	DATE	DESCRIPTION

DATE 1/29/2025  
DRAWN MRC  
CHECKED JML  
JOB NO. HDGA 2314

SIGNATURE & SEAL

James M. Lamb  
Digitally signed by James M. Lamb, DN: C=US, O=Florida, email=jm.lamb@ard-eng.com, serial=100700, reason: I am approving this document.  
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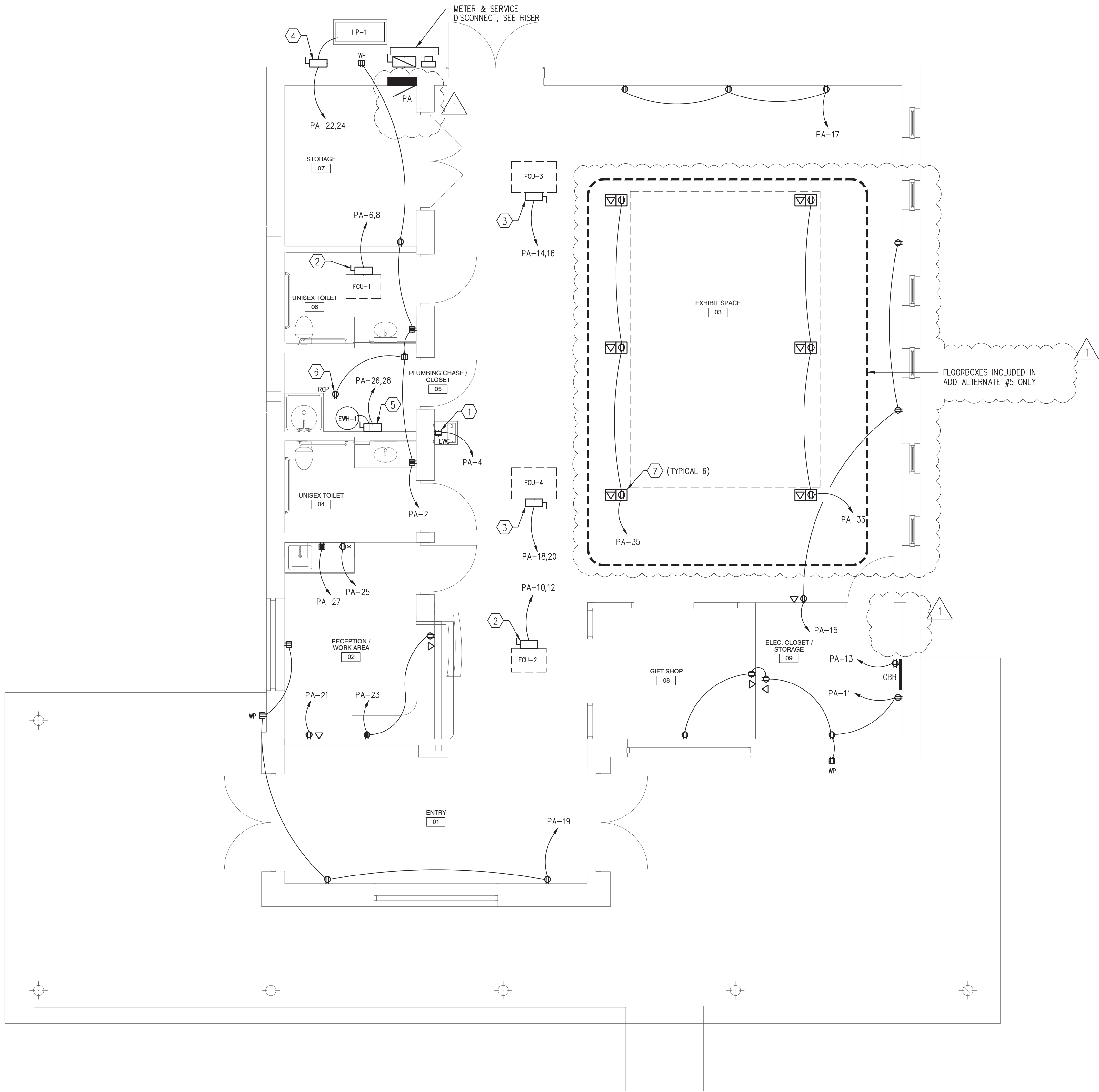
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ARD PROJECT #4083

APPLIED RESEARCH AND DESIGN, INC.

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FLOOR PLAN - POWER & SYSTEMS

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

WORK NOTES:

(THIS SHEET ONLY)

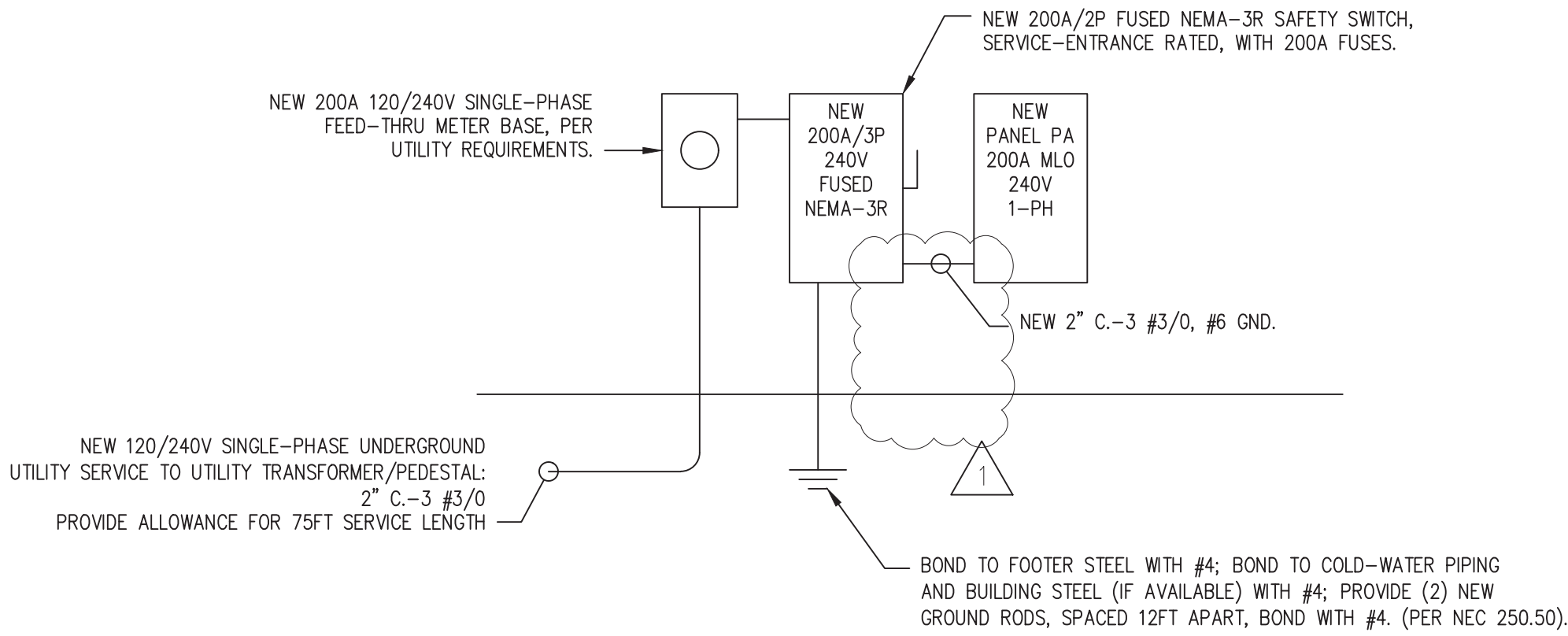
- ELECTRIC WATER COOLER (EWC); IF RECEPTACLE IS ACCESSIBLE PROVIDE AS INDICATED. IF EQUIPMENT COVERS THE RECEPTACLE MAKING IT INACCESSIBLE PROVIDE A STANDARD 20A DUPLEX RECEPTACLE, WITH GFCI BREAKER AT PANEL.
- FCU-1 & 2: 240V, 1PH, PROVIDE NEW 30A/2P 240V N.F. NEMA-1 SAFETY SWITCH, WITH 3/4" C.-2 #12, #12 GND, TO PANEL, PROVIDE A 20A SNAP SWITCH AT OR NEAR THE UNIT FOR CONDENSATE PUMP (NOT SHOWN), IF REQUIRED. CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT AND HARD WIRE TO PUMP. IF NO CONDENSATE PUMP PROVIDED, PROVIDE SIMPLEX RECEPTACLE AT UNIT.
- FCU-3 & 4: 240V, 1PH, PROVIDE NEW 30A/2P 240V N.F. NEMA-1 SAFETY SWITCH, WITH 3/4" C.-2 #12, #12 GND, TO PANEL, PROVIDE A 20A SNAP SWITCH AT OR NEAR THE UNIT FOR CONDENSATE PUMP (NOT SHOWN), IF REQUIRED. CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT AND HARD WIRE TO PUMP. IF NO CONDENSATE PUMP PROVIDED, PROVIDE SIMPLEX RECEPTACLE AT UNIT.
- HP-1: 240V, 1PH, PROVIDE NEW 60A/2P 240V N.F. NEMA-3R SAFETY SWITCH, WITH 3/4" C.-2 #6, #10 GND, TO PANEL.
- EW-1: 2.5KW, 120V, 1PH, PROVIDE NEW 30A/2P 240V N.F. NEMA-1 SAFETY SWITCH, WITH 1" C.-2 #10, #10 GND, TO PANEL.
- PROVIDE 20A DUPLEX RECEPTACLE FOR REQIRC PUMP, MOUNT AT OR NEAR UNIT.
- PROVIDE FLUSH MOUNTED FLOOR OUTLETS AS DIRECTED BY ARCHITECT/OWNER. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.

GENERAL NOTES:

(THIS SHEET ONLY)

- PROVIDE DEDICATED NEUTRAL WITH ALL 120V BRANCH CIRCUITS.
- ELECTRICAL FOR HVAC EQUIPMENT IS BASED ON EQUIPMENT INFORMATION PROVIDED AT THE TIME OF DESIGN. CONTRACTOR SHALL VERIFY FINAL EQUIPMENT SELECTIONS AND REQUIREMENTS (INCLUDING ROUGH-IN LOCATIONS, ELEVATIONS, CONNECTION REQUIREMENTS, DISCONNECT REQUIREMENTS, ETC.) AND LAYOUT INFORMATION AT ROUGH-IN; NOTIFY ENGINEER OF ANY DISCREPANCIES.

PANEL: PA															
MAIN: 200A MLO SERVICE: 120/240V, 1-PHASE, 3-WIRE LOCATION: SEE PLAN RATING: 14,000 AIC TYPE: NEMA-1, RECESSED								NOTE: PROVIDE UL-1449 LISTED TYPE 1 SURGE PROTECTION DEVICE AT PANEL (40KA PER MODE, MINIMUM)							
KVA															
CKT	DESCRIPTION	BKR	P	LOAD	A	B	LOAD	BKR	P	DESCRIPTION	CKT				
1	LTS-OFFICE, R.R., ETC.	20	1	0.85	1.93		1.08	20	1	REC-R.R., STORAGE, ETC.	2				
3	LTS-EXHIBIT AREA	20	1	0.49		1.29	0.80	20	1	REC-EWC	4				
5	LTS-EXTERIOR	20	1	0.03	0.13		0.10	15	2	FCU-1	6				
7	TIME CLOCK (TC)	20	1	0.10		0.20	0.10				8				
9	SPARE	20	1		0.10		0.10	15	2	FCU-2	10				
11	REC-OFFICE, ETC.	20	1	1.08		1.18	0.10				12				
13	REC-COMMS	20	1	0.36	0.66		0.30	15	2	FCU-3	14				
15	REC-EXHIBIT AREA	20	1	0.72		1.02	0.30				16				
17	REC-EXHIBIT AREA	20	1	0.54	0.84		0.30	15	2	FCU-4	18				
19	REC-ENTRY, ETC.	20	1	0.72		1.02	0.30				20				
21	REC-RECEPTION	20	1	1.00	4.50		3.50	35	2	HP-1	22				
23	REC-RECEPTION	20	1	1.00		4.50	3.50				24				
25	REC-REFRIG.	20G	1	1.00	3.50		2.50	25	1	EW-1	26				
27	REC-RECEPTION	20	1	1.00		1.00				SPACE	28				
29	FOR LTG/POWER DROPS	20	1	1.00	1.00					SPACE	30				
31	FOR LTG/POWER DROPS	20	1	1.00		1.00				SPACE	32				
33	REC-EXHIBIT SPACE FLOOR	20	1	0.54	0.54					SPACE	34				
35	REC-EXHIBIT SPACE FLOOR	20	1	0.54		0.54				SPACE	36				
37	SPARE	20	1		0.00					SPACE	38				
39	SPARE	20	1			0.00		30	2	SURGE PROT. DEVICE	40				
41	SPARE	20	1		0.00						42				
				13.20		11.75									
TOTAL CONNECTED LOAD (KVA):				24.95 KVA				104.0 AMPS							



RISER DIAGRAM

NO SCALE

ARD PROJECT #4083

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ARCHITECTURE

LANDSCAPE ARCHITECTURE

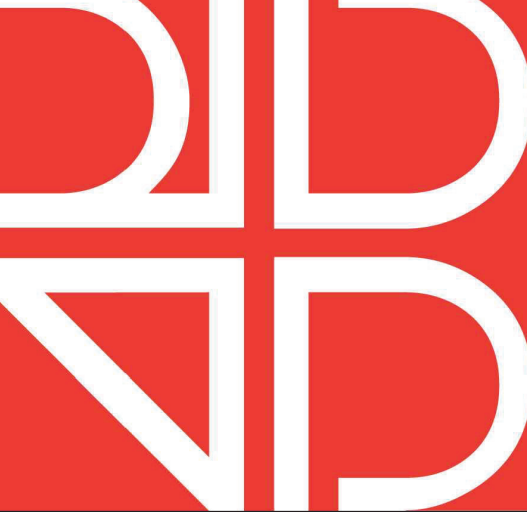
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REVISIONS

ID	DATE	DESCRIPTION
1	5/30/25	BID REVISIONS

DATE 1/29/2025

DRAWN MRC

CHECKED JML

JOB NO. HDGA 2314

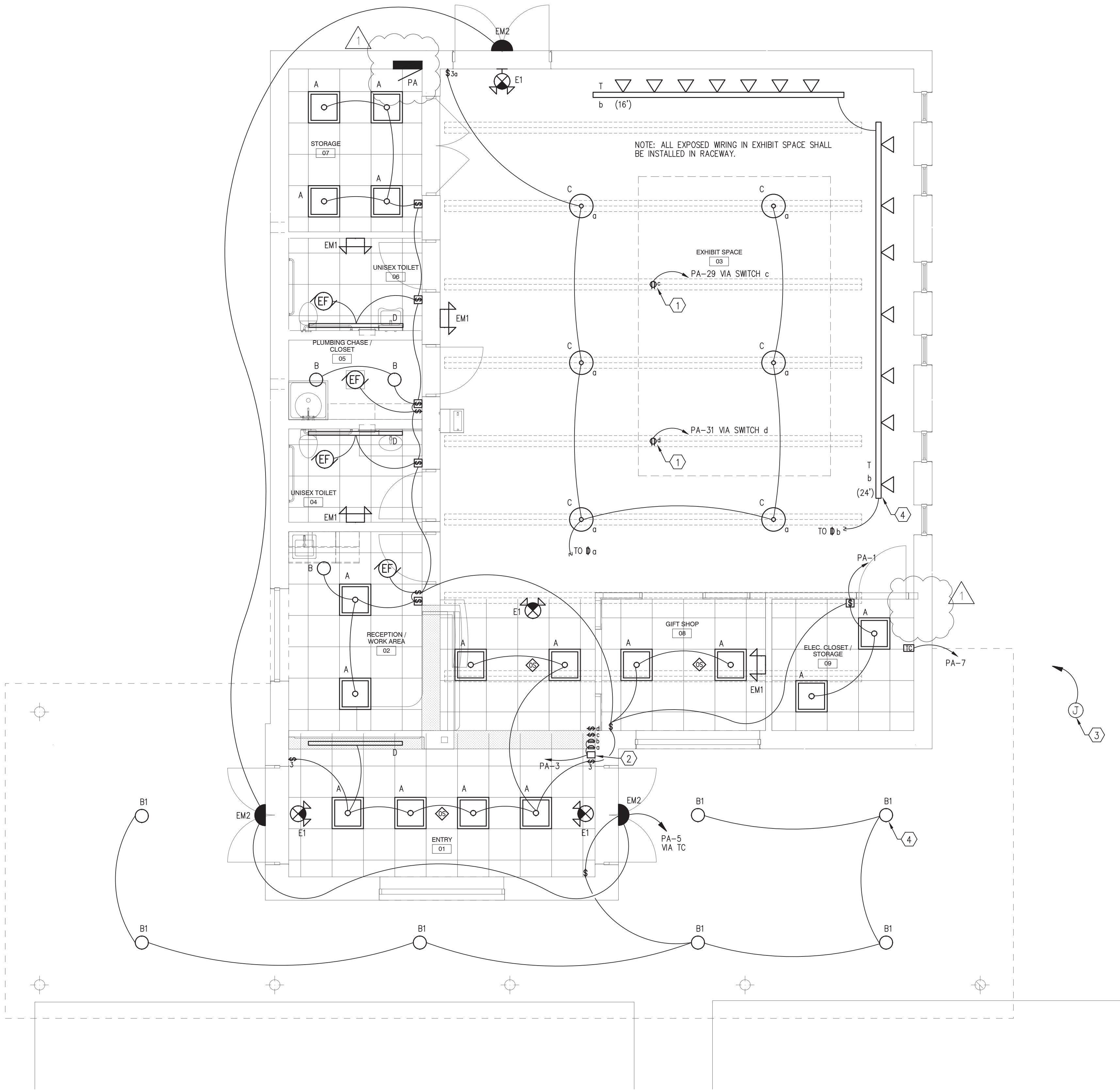
SIGNATURE & SEAL

James M. Lamb  
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FLOOR PLAN - LIGHTING  
SCALE: 1/4" = 1' - 0"

GENERAL NOTES:  
(THIS SHEET ONLY)

1. PROVIDE POWER PACKS AS REQUIRED FOR OCCUPANCY SENSORS.
2. ALL WALL MOUNTED OCCUPANCY SENSORS ARE MANUAL ON/AUTOMATIC OFF.
3. PROVIDE ALL LOW VOLTAGE CONTROL CABLING FOR LIGHTING, PLENUM RATED.
4. PROVIDE SEPARATE NEUTRAL FOR EACH 120V BRANCH CIRCUIT.

WORK NOTES:  
(THIS SHEET ONLY)

- 1 PROVIDE SWITCHED DUPLEX RECEPTACLE AT CEILING BAR JOIST FOR ADDITIONAL LIGHTING/POWER DROPS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- 2 PROVIDE 20A/6-POLE 240V LIGHTING CONTACTOR IN NEMA-1 ENCLOSURE (NOT SHOWN) TO BE CONCEALED ABOVE ACCESSIBLE CEILING, TO SERVE ALL EXHIBIT SPACE LIGHTING CIRCUITS AND SWITCHED OUTLETS (CONTACTOR TO BE CIRCUITED TO "LINE" SIDE OF MANUAL LIGHTING CONTROLS). CONTACTOR IS TO BE CONTROLLED BY WALL-MOUNTED ELECTRONIC PROGRAMMABLE TIMSWITCH WITH MANUAL OVER-RIDE (EQUAL TO INTERMATIC #E1600) AT SWITCHBANK.
- 3 PROVIDE 6" ROUND IN-GROUND J-BOX, WITH BOLT-DOWN COVER, WITH 3/4" CONDUIT (SPARE) TO EXTERIOR LIGHTING TIMECLOCK, FOR FUTURE LANDSCAPE LIGHTING.
- 4 PROVIDE 300W LV DIMMABLE TRANSFORMER TO SERVE TRACK LIGHTS; CONCEAL ABOVE CEILING IN ELECTRICAL CLOSET.

Lighting Fixture Schedule					
TYPE	DESCRIPTION	MNFR/SUPPLIER	MODEL #	LAMPS	NOTES
A	2X2 LED ARHITECTURAL TROFFER	H.E. WILLIAMS	LT-22-L39-835-AF-DIM-UNV	33W LED	
B	6" LED RECESSED DOWN LIGHT	LIGHTOUER	M6R-DL-25-9CS-W-CL-Z10-U	17W LED	SET FOR LOW OUTPUT (1500 LUMEN), 3500K COLOR TEMP
B1	EXTERIOR 6" LED RECESSED DOWN LIGHT	LIGHTOUER	M6R-DL-10-9CS-W-CL-Z10-U	17W LED	SET FOR MEDIUM OUTPUT (750 LUMEN), 3500K COLOR TEMP
C	8" LED PENDANT CYLINDER, SELECTABLE WATTAGE	PEACHTREE	CY-R-8-DMLV1-W-35K-80-SJ	58W LED	FINISH PER ARCHITECT. PROVIDE RIGID STEM MOUNT, MOUNT BOTTOM OF FIXTURE 13'-0" AFF
D	6FT LED RECESSED PERIMETER WALL LIGHT	ALCON LIGHTING	12100-8-R 6 7L-*35K-F	41W LED	PROVIDE FINISH PER ARCHITECT
E1	WHITE THERMOPLASTIC LED EMERGENCY/EXIT COMBO SIGN	CHLORIDE	CLC-N-RW	LED	
EM1	EMERGENCY BATTERY UNIT	CHLORIDE	CLU-N-W	LED	MOUNT 7'-6" AFF
EM2	LED LOW-PROFILE ARCHITECTURAL WALL PACK WITH INTEGRAL EMERGENCY BATTERY	BEGHELLI	MUR-SA-CL	LED	MOUNT CENTERED ABOVE DOOR. FINISH PER ARCHITECT. WIRE FOR NORMAL OPERATION ON TIMECLOCK.
T	TRACK LIGHT	MP LIGHTING	HEADS: X01-SF-X TRACK: RAL001-S-MC	10W LED MAX PER HEAD	MOUNT HEADS WITH 18" STEM
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LIGHTING NOTES:

1. VERIFY ALL CEILING FINISHES, FIXTURE TRIMS, AND VOLTAGES PRIOR TO ORDERING AND PROVIDE AS REQUIRED.
2. FIXTURES SHOWN ARE BASIS OF DESIGN; FIXTURES OF SIMILAR STYLE, PERFORMANCE, AND ELECTRICAL CHARACTERISTICS THAT ARE ACCEPTABLE TO THE OWNER AND ENGINEER WILL BE ALLOWED.
3. PROVIDE ALL LOW-VOLTAGE WIRING AS REQUIRED, FOR DIMMING AND CONTROLS.
4. PROVIDE LAMPS/BALLASTS/DRIVERS WITH ALL FIXTURES.
5. PROVIDE ALL BOXES, BACKBOXES, SUPPORTS, FEEDS, TRIMS, STEMS, ROUGH-INS AND BLOCKING AS MAY BE REQUIRED FOR INSTALLATION.

REVISIONS		
ID	DATE	DESCRIPTION
Δ	5/30/25	BID REVISIONS

DATE 1/29/2025  
DRAWN MRC  
CHECKED JML  
JOB NO. HDGA 2314

SIGNATURE & SEAL  
James M Lamb  
Digitally signed by James M Lamb, DN: cn=X, o=Florida, email=jml@ard-eng.com, c=US, Reason: I am approving this document  
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ABBREVIATIONS

ABV	ABOVE	MAX	MAXIMUM
ADJ	ADJUSTABLE	MBH	1000 X BTUH
AF	AIRFOIL	MIN	MINIMUM
AFF	ABOVE FINISHED FLOOR	MVD	MANUAL VOLUME DAMPER
AC	AIR CONDITIONER	MZ	MULTI-ZONE
ACU	AIR CONDITIONING UNIT	N.T.S.	NOT TO SCALE
AHU	AIR HANDLING UNIT	OA	OUTSIDE AIR
AP	ACCESS PANEL	OBMVD	OPPOSED BLADE MANUAL VOLUME DAMPER
BAS	BUILDING AUTOMATION SYSTEM	ODP	OPEN DRIP PROOF
BI	BACKWARD INCLINE	PROP	PROPELLER
BLDG	BUILDING	PCR	PRE-CONDITIONED AIR SYSTEM RETURN WATER
BHP	BRAKE HORSEPOWER		
BTUH	BRITISH THERMAL UNIT PER HOUR	PCT	PERCENT
CD	CONDENSATE DRAIN	PD	PRESSURE DROP
CFM	CUBIC FEET PER MINUTE	PERF. PL	PERFORATED PLATE
CLG	CEILING	PLBG	PLUMBING
CW	CONDENSER WATER	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
CWR	CONDENSER WATER RETURN		
CWS	CONDENSER WATER SUPPLY	PSIG	POUNDS PER SQUARE INCH GAUGE
CHW	CHILLED WATER		
CHWR	CHILLED WATER RETURN	RA	RETURN AIR
CHWS	CHILLED WATER SUPPLY	RD	RADIATION DAMPER
CONC	CONCRETE	REG	REGISTER
COND	CONDENSATE	REQ'D	REQUIRED
CONT	CONTINUOUS	RG	RETURN AIR GRILLE
CO	CARBON MONOXIDE	RH	RELATIVE HUMIDITY
CO	COEFFICIENT OF PERFORMANCE	RPM	REVOLUTIONS PER MINUTE
CUP	CONDENSING UNIT	RR	RETURN AIR REGISTER
DB	DRYBULB	RTU	ROOFTOP UNIT
DWDI	DOUBLE WIDTH, DOUBLE INLET	SA	SUPPLY AIR
DWGS	DRAWINGS	SF	SUPPLY FAN
DX	DIRECT EXPANSION	SDT	SMOKE DETECTOR
EF	EXHAUST FAN	SD	SUPPLY DIFFUSER
EXH	EXHAUST	SDMP	SMOKE DAMPER
EA	EACH	SQ.FT.	SQUARE FOOT
EAT	ENTERING AIR TEMPERATURE	SR	SUPPLY REGISTER
EER	ENERGY EFFICIENCY RATIO	STR	STARTER
ELECT	ELECTRICAL	SWSI	SINGLE WIDTH, SINGLE INLET
ENT	ENTERING	SZ	SINGLE ZONE
EQ	EQUAL	TEFC	TOTALLY ENCLOSED FAN COOLED
ER	EXHAUST REGISTER	TEMP	TEMPERATURE
EWT	ENTERING WATER TEMPERATURE	TG	TRANSFER GRILLE
FC	FORWARD CURVED	T/O	TRANSFER OPENING ABOVE CEILING
FCU	FAN COIL UNIT	T'STAT	THERMOSTAT
FD	FIRE DAMPER	TYP	TYPICAL
FL	FLOOR	UC	UNDERCUT (DOOR)
FLEX	FLEXIBLE CONNECTOR OR DUCT	VFC	VARIABLE FREQUENCY DRIVE CONTROLLER
FM	FEET PER MINUTE		
F/S	COMBINATION FIRE AND SMOKE DAMPER	VAV	VARIABLE AIR VOLUME
FT. HD.	FEET OF HEAD	VS	VARIABLE SPEED
°F	DEGREES FAHRENHEIT	VFD	VARIABLE FREQUENCY DRIVE
GA	GAUGE	W	WATTS
GAL	GALLON	W	WITH
GALV	GALVANIZED	W/O	WITHOUT
GPM	GALLONS PER MINUTE	WB	WETBULB
HP	HORSEPOWER	ZD	ZONE DAMPER
HTWR	HIGH TEMPERATURE HOT WATER RETURN		
HTWS	HIGH TEMPERATURE HOT WATER SUPPLY		
HW	HOT WATER		
HWR	HOT WATER RETURN		
HWS	HOT WATER SUPPLY		
HVAC	HEATING VENTILATING AND AIR CONDITIONING		
HV	HEATING AND VENTILATING		
IN. H <sub>2</sub> O	INCHES WATER GAUGE		
KW	KILOWATTS		
LAT	LEAVING AIR TEMPERATURE		
LD	LINEAR DIFFUSER		
LWT	LEAVING WATER TEMPERATURE		

MECHANICAL LEGEND

	SUPPLY DIFFUSER. ARROWS INDICATE 1 WAY, 2 WAY, OR 3 WAY. NO ARROWS INDICATE 4-WAY.		INDICATES POINT OF CONNECTION BETWEEN NEW AND EXISTING.
	RETURN OR OUTDOOR AIR GRILLE		POINT OF DISCONNECT
	EXHAUST GRILLE		CONDENSATE DRAIN PIPING.
	CEILING MOUNTED EXHAUST FAN		REFRIGERANT PIPING
	SUPPLY DUCT UP SECTION (RECTANGULAR)		TEE (PLAN, UP, DOWN).
	RETURN DUCT UP SECTION (RECTANGULAR)		ELBOW (PLAN, UP, DOWN).
	EXHAUST DUCT UP SECTION (RECTANGULAR)		VALVE.
	SUPPLY DUCT DOWN SECTION (RECTANGULAR)		BALL VALVE FOR PIPING 2-INCHES AND SMALLER, BUTTERFLY VALVE FOR PIPING 2-1/2 INCHES AND LARGER.
	RETURN DUCT DOWN SECTION (RECTANGULAR)		CHECK VALVE.
	EXHAUST DUCT DOWN SECTION (RECTANGULAR)		STRAINER.
	SUPPLY DUCT UP SECTION (ROUND).		BALANCE VALVE WITH INTEGRAL TAPS FOR CONNECTION OF DIFFERENTIAL PRESSURE METER. VALVE SHALL HAVE NAMEPLATE INDICATING WATER FLOW RATE VERSUS VALVE PRESSURE DROP.
	SUPPLY DUCT DOWN SECTION (ROUND).		UNION.
	LINEAR SLOT DIFFUSER		FLEXIBLE CONNECTION.
	RECTANGULAR DUCTWORK WITH TAKE-OFF, BALANCING DAMPER AND INSULATED FLEXIBLE ROUND DUCT. SAME SIZE AS DIFFUSER INLET UNLESS NOTED OTHERWISE. FIRST DIMENSION IS THAT OF SIDE SHOWN.		PRESSURE RELIEF VALVE.
	ROUND DUCTWORK.		MOTORIZED ACTUATOR
	CONICAL FITTING WITH DAMPER ON BRANCH CONNECTION TO RECTANGULAR MAIN (PROVIDE DAMPER IN LOW PRESSURE DUCTWORK ONLY).		1" DOOR UNDER CUT. ARROW INDICATES DIRECTION OF FLOW
	DUCT MOUNTED SMOKE DETECTOR PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT BY MECHANICAL CONTRACTOR. REFER TO SPECIFICATIONS FOR CONTROL REQUIREMENTS.		ELBOW WITH TURNING VANES
	AIR DEVICE TAG MARK-CFM		RADIATION DAMPER INSTALLED IN AIR DEVICE RADIATION DAMPER INSTALLED IN DUCT.
	SIDEWALL TRANSFER GRILLE		CONDENSER UNIT OR HEAT PUMP
	SIDEWALL SUPPLY REGISTER		CONDENSER UNIT OR HEAT PUMP
	SIDEWALL RETURN GRILLE		
	SIDEWALL EXHAUST GRILLE OR SIDEWALL EXHAUST FAN		
	SIDEWALL FRESH AIR INTAKE LOUVER OR EXHAUST LOUVER		
	WALL MOUNTED DDC TEMPERATURE SENSOR MOUNT 5'-0" ABOVE FINISHED FLOOR.		WALL MOUNTED DDC HUMIDITY SENSOR MOUNT 5'-0" ABOVE FINISHED FLOOR.
	WALL MOUNTED THERMOSTAT MOUNT 5'-0" ABOVE FINISHED FLOOR.		WALL MOUNTED HUMIDISTAT SENSOR MOUNT 5'-0" ABOVE FINISHED FLOOR.
	WALL MOUNTED CO SENSOR MOUNT 5'-0" ABOVE FINISHED FLOOR.		REFERENCE NOTES
	WALL MOUNTED CO <sub>2</sub> SENSOR MOUNT 5'-0" ABOVE FINISHED FLOOR.		REFERENCE NOTE - MULTI-DISCIPLINE SHEETS
			DEMOLITION NOTES

GENERAL NOTES/MATERIALS AND INSTALLATION:

THE ABBREVIATIONS, LEGEND, GENERAL NOTES, MECHANICAL SPECIFICATIONS, SCHEDULES, DETAILS, CONTROLS, RISER DIAGRAMS, AND FLOOR PLANS SHALL BE USED TOGETHER TO DEFINE THE COMPLETE MECHANICAL SYSTEMS CONSISTING OF, BUT NOT LIMITED TO HEATING, VENTILATION AND AIR CONDITIONING. ALL EQUIPMENT AND COMPONENTS SHALL BE INSTALLED PER THE MANUFACTURERS INSTALLATION, OPERATION AND MAINTENANCE MANUAL AND COMPLY WITH ALL APPLICABLE CODES. IF CONFLICTS OCCURE BETWEEN SHEET AND BOOK SPECIFICATIONS BOOK SPECIFICATIONS SHALL SUPERSEDE. GENERAL NOTES AND SPECIFICATIONS ARE TO BE FOLLOWED UNLESS STATED OTHERWISE ON FLOOR PLANS OR DETAILS.

INSTALLATION OF ALL HVAC EQUIPMENT, PIPING, AND DUCTWORK (MAIN TRUNK AND BRANCH LINES) IN SPACE BETWEEN/THROUGH JOIST/TRUSSES SHALL BE COORDINATED WITH JOIST/TRUSS DESIGN. ADJUSTMENTS AND ADDITIONAL TRUSS BLOCK-OUTS/REPAIRS REQUIRED TO ROUTE DUCT AS DESIGNED SHALL BE REVIEWED/DESIGNED AND CERTIFIED BY A REGISTERED STRUCTURAL ENGINEER.

DUCTWORK:

DUCT ROUTING IS DIAGRAMMATIC IN NATURE AND DOES NOT REPRESENT ALL REQUIRED TURNS AND FITTINGS TO ROUTE DUCT AS SHOWN. FIELD VERIFY ALL CONDITIONS AFFECTING DUCT ROUTING PRIOR TO FABRICATION OF DUCT.

COMPLETE SYSTEMS OF DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH NFPA 90A AND THE RECOMMENDED AND STANDARD PRACTICES CONTAINED IN THE LATEST EDITION OF THE SMACNA "HVAC DUCT METAL DUCTWORK" HANDBOOK. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE SHEETMETAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC.

INSTALL DUCTWORK INDICATED ON DRAWINGS, MAKING NECESSARY CHANGES IN CROSS-SECTIONS AND OFFSETS, WHETHER OR NOT SPECIFICALLY INDICATED. PROVIDE OFFSETS AND OTHER FIELD CHANGES AS NECESSARY TO SUIT THE SIZE OF FACTORY FABRICATED EQUIPMENT ACTUALLY FURNISHED. SUCH CHANGES SHALL BE DESIGNED TO MINIMIZE LOSSES IN PRESSURE AND PERFORMANCE DUE TO SUDDEN EXPANSION AND CONTRACTION. TRANSITIONS SHALL BE USED IN FIELD CHANGES AS WELL AS MODIFICATIONS TO CONNECTING DUCTS. DUCTWORK SHALL BE OPERATE WITHOUT CHATTER, VIBRATION AND BE AIRTIGHT SO THAT NO DUST MARKS FROM AIR LEAKS WILL SHOW AT CONNECTIONS OR OUTLETS. ALL JOINTS SHALL BE SEALED WITH APPROVED DUCT ALL DIMENSIONS ARE INSIDE NET FREE AREA.

ALL DUCTWORK LOCATED IN UNCONDITIONED INTERIOR SPACES SHALL BE GALVANIZED STEEL, UNLESS NOTED OTHERWISE. DUCT SHALL BE FABRICATED, ASSEMBLED AND MOUNTED ACCORDING TO SMACNA GUIDELINES. SUPPLY AND RETURN SHALL BE WRAPPED WITH AN R-6 (INSTALLED) RATED FIBERGLASS BLANKET INSULATION AND FACTORY APPLIED VAPOR BARRIER. DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. SEAL ALL TAPED INSULATION JOINTS WITH MASTIC. FIELD VERIFY ALL CONDITIONS AFFECTING DUCT ROUTING PRIOR TO FABRICATION OF DUCTWORK. PROVIDE FLEXIBLE CONNECTIONS AT ALL RETURN AND SUPPLY DUCT CONNECTIONS TO AIR HANDLERS.

ALL DUCTWORK LOCATED IN UNCONDITIONED AREAS OUTSIDE THE BUILDING THERMAL ENVELOPE SHALL BE GALVANIZED STEEL, UNLESS NOTED OTHERWIS E. DUCT SHALL BE FABRICATED, ASSEMBLED AND MOUNTED ACCORDING TO SMACNA GUIDELINES. SUPPLY AND RETURN SHALL BE WRAPPED WITH AN R-8 (INSTALLED) RATED FIBERGLASS BLANKET INSULATION AND FACTORY APPLIED VAPOR BARRIER. DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. SEAL ALL TAPED INSULATION JOINTS WITH MASTIC. FIELD VERIFY ALL CONDITIONS AFFECTING DUCTROUTING PRIOR TO FABRICATION OF DUCTWORK. PROVIDE FLEXIBLE CONNECTIONS AT ALL RETURN AND SUPPLY DUCT CONNECTIONS TO AIR HANDLERS.

FLEXIBLE DUCTWORK SHALL BE ACOUSTICAL LOW PRESSURE TYPE WITH INTERIOR LINER, METAL HELIX, FIBERGLASS INSULATION WITH AN R-VALUE OF 8.0 OR GREATER, AND COPOLYMER SEAMLESS OUTSIDE SLEEVE. THE ENTIRE FLEXIBLE DUCT ASSEMBLY SHALL BE LISTED IN ACCORDANCE WITH UL-181 CLASS 1 AIR DUCT MATERIAL. FLEXIBLE DUCTWORK SHALL MEET THE FLORIDA MODEL ENERGY EFFICIENCY CODE. ALL JOINTS AT CONNECTIONS TO DIFFUSERS AND DUCTWORK SHALL BE SEALED WITH GLASS FABRIC AND MASTIC. RIGID DUCTWORK SHALL BE FLEX DUCT. RIGID DUCTWORK SHALL BE RIGID METAL TO WITHIN 5 FEET OF REGISTER. NO MORE THAN THE FINAL 7 FEET SHALL BE FLEX DUCT.

ALL EXPOSED INTERIOR DUCT SHALL BE DOUBLE WALL INSULATED RIGID METAL SPIRAL DUCT UNLESS STATED OTHERWISE ON FLOOR PLAN DRAWINGS. DUCT TO BE PAINTED; ARCHITECT/OWNER TO SELECT/APPROVE COLOR.

EXPOSED EXTERIOR DUCTWORK: ROUTE DUCT INTO THE EXTERNAL SIDE OF THE BUILDING. THE DUCTWORK SHALL BE WRAPPED WITH 3" OF RIGID INSULATION AND A VAPOR BARRIER. THE DUCTWORK SHALL BE FASTEN SECURELY TO WALL AND UNIT TO MEET SEISMIC REQUIREMENTS FOR THE AREA. PROVIDE 16GA SHEET METAL ENCLOSURE WITH AWNING AROUND EXTERNAL DUCTWORK.

ALL DUCTWORK MATERIALS, INCLUDING CEMENTS AND VAPOR BARRIER SHALL CONFORM TO THE REQUIREMENTS OF UL 181 STANDARDS FOR CLASS 1 AIR DUCT MATERIAL, NFPA-90A AND SMACNA FGDCS. ALL DUCTWORK SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA "HVAC DUCT METAL DUCTWORK" HANDBOOK.

PROVIDE TURNING VANES IN ALL RECTANGULAR DUCT ELBOWS. PROVIDE WALL SLEEVES OR METAL THIMBLES AT LEAST 3/8" LARGER THAN THE O.D. OF ALL O.D. PIPING PENETRATING CONCRETE OR MASONRY WALLS, CEILINGS, OR FLOORS. SEAL AROUND PENETRATIONS WITH MATERIALS APPROVED BY THE ARCHITECT. SEAL AROUND SLEEVES IN EXTERIOR CONCRETE OR MASONRY WALLS WITH GROUT.

ALTERNATE PRICING: PROVIDE AN ALTERNATE PRICE TO USE MANSVILLE FR-800 (SUPERDUCT) IN LIEU OF SHEET METAL DUCT FOR LOW PRESSURE SUPPLY AND RETURN DUCTWORK. PROVIDE "R" VALUE OF THE INSULATION TO MATCH INSULATION VALUES LISTED FOR SHEET METAL DUCT. DUCTWORK SHALL BE LINED WITH ANTI MICROBIAL INSULATION. SEAL ALL JOINTS WITH GLASS FABRIC AND MASTIC.

ADJUSTABLE SPLITTERS AND DAMPERS SHALL BE INSTALLED IN EVERY SPLIT AND BRANCH DUCT AND SHALL BE PROVIDED WITH LOCKING QUADRANTS ON EXPOSED OR IN ACCESSIBLE AREAS OF THE DUCT FOR EASE OF OPERATION. ACCESS PANELS OR YOUNG REGULATORS SHALL BE PROVIDED WHERE DAMPERS ARE INSTALLED ABOVE HARD CEILINGS OR IN SUFFITS.

ELBOWS OR CHANGES IN DUCT DIRECTION GREATER THAN 45 DEGREES SHALL BE FITTED WITH AIR TURNS CONSISTING OF CURVED AIRFOIL BLADES OR VANES WHICH WILL PERMIT THE AIR TO MAKE ABRUPT TURNS WITHOUT APPRECIABLE TURBULENCE. PROVIDE SQUARE TO ROUND TAPS WHERE BRANCH DUCT DIAMETER IS EQUIVALENT TO MAIN DUCT

TEMPORARY CLOSURE OF POLYETHYLENE FILM OR SIMILAR COVERING SHALL BE PROVIDED AT ENDS OF DUCTS WHICH ARE NOT CONNECTED TO EQUIPMENT OR AIR DEVICES. AT THE TIME OF INSTALLATION, DUCTWORK AWAITING INSTALLATION, AND EQUIPMENT INSTALLED OR AWAITING INSTALLATION TO PREVENT DUST AND DEBRIS FROM ENTERING THE SYSTEM. BEFORE MAKING FINAL CONNECTIONS TO AIR DISTRIBUTION OUTLETS, THE CONTRACTOR SHALL OPERATE FANS AND SHALL THOROUGHLY CLEAN OUT THE INTERIOR SURFACES OF ALL DUCTS.

DUCT HANGERS AND SUPPORTS

PROVIDE ALL NECESSARY HANGER RODS, CLAMPS AND ATTACHMENTS TO PROPERLY INSTALL AND SUPPORT DUCTWORK, PIPING AND EQUIPMENT FROM THE BUILDING STRUCTURE. PROVIDE ANY ANGLE IRON OR UNISTRUT AND SUSPENSION RODS REQUIRED TO INSTALL EQUIPMENT, PIPING AND DUCTWORK. THE USE OF BALING WIRE OR PERFORATED METAL STRAPPING IS NOT ACCEPTABLE FOR SUPPORTS. ALL SUPPORTS EXPOSED TO OUTDOORS SHALL BE CLEANED, PRIMED AND PAINTED TO PREVENT RUSTING. FINISH COLOR AS SELECTED BY OWNER.

INSULATION:

CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ADEQUATE AND PROPER INSULATION AND MOISTURE-SEAL IN A MANNER THAT WILL PERMANENTLY PREVENT THE ACCUMULATION OF ANY OBJECTIONABLE MOISTURE ON THE EXTERIOR OF AIR CONDITIONING UNITS, REFRIGERANT PIPING, CONDENSATE DRAIN PIPING, AIR DUCTS OR OTHER PARTS OF THE SYSTEM. CONTRACTOR SHALL CORRECT THE CAUSE OF ANY CONDENSATION AND FULLY REPAIR, WITHOUT COST TO THE OWNER, ANY DAMAGES TO BUILDING SURFACES, FURNISHINGS OR EQUIPMENT CAUSED BY CONDENSATION FROM THIS SYSTEM, FOR THE FULL PERIOD OF GUARANTEE.

SHALL BE AS MANUFACTURED BY CERTAINTED, OWENS-CORNING, MANVILLE, PITTSBURGH CORNING, ARMSTRONG, OR APPROVED EQUAL. INSULATION SUBSTITUTES AND ADHESIVES SHALL BE AS MANUFACTURED BY BENJAMIN FOSTER, CHILDERS, WIMASCO, OR APPROVED EQUAL. ALL INSULATION SHALL BE SUITABLE FOR INSTALLATION IN A RETURN AIR PLENUM. INSULATE DUCT INTERIOR OF TRANSFER DUCTS WITH AP ARMAFLEX FOR ACOUSTIC ATTENUATION PURPOSES.

INSULATE ALL SHEETMETAL DUCTWORK EXCEPT EXHAUST DUCTWORK EXTERNALLY WITH MANVILLE R SERIES MICROSLITE TYPE 75 OR 100 INSULATION OR APPROVED. INSULATION TO HAVE TYPE II FSK FACING AND UL FIRE HAZARD CLASSIFICATION OF FLAME SPREAD 25/SMOKE DEVELOPED 50/FUEL CONTRIBUTED 50. INSTALL INSULATION PER SMACNA, FLORIDA MODEL ENERGY EFFICIENCY CODE AND MANUFACTURER'S RECOMMENDATIONS. ALL INSULATION JOINTS SHALL BE SEALED WITH GLASS FABRIC AND MASTIC.

MINIMUM INSULATION REQUIREMENTS AS FOLLOWS:  
- SUPPLY AND RETURN AIR UNCONDITIONED: 2" (R-6 MIN)  
- OUTSIDE AIR: 2" (R-6 MIN)

PROVIDE ALL EXTERIOR INSULATION DUCTWORK OR PIPING EXPOSED TO THE OUTDOORS WITH A MINIMUM 8 MIL THICK ALUMINUM OR PVC JACKET.

NOTE TO BIDDERS/CONTRACTORS

THE DRAWINGS ARE A SCHEMATIC 2D REPRESENTATION OF A 3D SYSTEM. ALL FIELD CONDITIONS MAY NOT BE EVIDENT AT THE TIME OF ISSUANCE OF THIS DRAWING. SOME TURNS, ELEVATION CHANGES, DUCTWORK FITTINGS, ETC. WILL HAVE TO BE FABRICATED, CHANGED OR MODIFIED IN THE FIELD TO MEET THE CONDITIONS PRESENT AT THE TIME OF CONSTRUCTION. COORDINATE WITH ALL TRADES AS WELL AS ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. MECHANICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR COORDINATION PRIOR TO SUBMITTING A BID.

HAMMOND

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CITY OF APALACHICOLA  
AFRICAN-AMERICAN CULTURAL HISTORY MUSEUM

100% CONSTRUCTION DOCUMENTS 12/18/2024

MECHANICAL GENERAL NOTES, LEGEND, AND ABBREVIATIONS

REVISIONS

ID	DATE	DESCRIPTION

DATE

12/18/2024

DRAWN

MEPVE

CHECKED

MEPVE

JOB NO.

HDDA 2314

SIGNATURE & SEAL

Mohamed Said Mahmoud

No. 88276

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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DRAWING

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MECHANICAL SPECIFICATIONS

THE GENERAL MECHANICAL SPECIFICATIONS APPLY TO THE WORK SPECIFIED IN THIS SECTION. THE CONTRACTOR SHALL PROVIDE QUALIFIED SUPERVISION, SKILLED LABOR, QUALITY MATERIAL, MACHINERY, PLANT, AND ANY OTHER ITEMS NECESSARY FOR THE COMPLETE AND PROPERLY FUNCTIONING MECHANICAL SYSTEM. INCLUDED SHALL BE THE FABRICATION, INSTALLATION, AND/OR RENOVATION OF MECHANICAL SYSTEMS INCLUDING HEATING, VENTILATING, AIR CONDITIONING AND MISCELLANEOUS SYSTEMS AS INDICATED IN DESIGN DRAWINGS AND AS OUTLINED IN THESE SPECIFICATIONS AND THE APPLICABLE CODES/STANDARDS. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND PAY ALL FEES.

PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED PROJECT AND EXAMINE ALL SECTIONS OF THE SPECIFICATIONS AND THE COMPLETE SET OF CONTRACT DRAWINGS INCLUDING THE ARCHITECTURAL, CIVIL, STRUCTURAL AND FIRE PROTECTION DRAWINGS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR OMISSIONS, CONFLICTS, OR CONCERNS EFFECTING THIS DIVISION OF THE WORK. INSTALL AND CONNECT PER THE REGULATIONS OF THE LOCAL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING APPLICABLE CODES/STANDARDS:

- 2023 FBC - BUILDING, 8 EDITION (IBC 2021 AMENDED)
- 2023 FBC - EXISTING BUILDING, 8 EDITION (IEBC 2021 AMENDED)
- 2023 FBC - MECHANICAL, 8 EDITION (IMC 2021 AMENDED)
- 2023 FBC - PLUMBING, 8 EDITION (IPC 2021 AMENDED)
- 2023 FBC - ENERGY CONSERVATION, 8 EDITION (IECC 2021 AMENDED)
- 2020 FLORIDA ELECTRICAL CODE (NFPA 70, 2020 NOT AMENDED)
- SMACNA DUCT CONSTRUCTION STANDARDS
- ASHRAE

SCOPE OF WORK:

FURNISH AND INSTALL COMPLETE AIR CONDITIONING SYSTEMS AS INDICATED ON THE DESIGN DRAWINGS AND AS OUTLINED WITHIN THESE SPECIFICATIONS. WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FABRICATION AND/OR INSTALLATION OF THE SCHEDULED AIR CONDITIONING UNITS, EXHAUST FANS, AIR DISTRIBUTION AND DUCTWORK.

CLEANING, TESTING AND ADJUSTING: THE MECHANICAL CONTRACTOR, AT HIS EXPENSE, SHALL CLEAN, REPAIR, ADJUST, CHECK, BALANCE, AND PLACE IN SERVICE THE VARIOUS SYSTEMS HEREIN SPECIFIED WITH THEIR RESPECTIVE EQUIPMENT, ACCESSORIES AND PIPING. HE SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND TOOLS REQUIRED TO PERFORM TESTS REQUIRED BY THESE SPECIFICATIONS AND BY THE GOVERNING AUTHORITIES.

NO WORK SHALL BE COVERED OR CONCEALED UNTIL PROPERLY INSPECTED AND TESTED.

EXCUTION:

DO NOT SCALE PLANS. ALL LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC., INDICATED ON THE DRAWINGS IS DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE TO THE PLANS SUBJECT TO BUILDING CONSTRUCTION AND INTERFERENCES WITH OTHER TRADES. CONTRACTOR IS RESPONSIBLE FOR ANY FIELD MEASUREMENTS REQUIRED TO PROVIDE AN APPROVED AND FUNCTIONAL INSTALLATION.

COORDINATE WITH OTHER TRADES AND FIELD-VERIFY EXISTING CONDITIONS FOR EXACT LOCATION AND ROUTING OF SYSTEMS. PROVIDE OFFSETS, TRANSITIONS AND ADAPTORS AS REQUIRED.

NOT ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION ARE SHOWN ON THESE DRAWINGS. REFER TO EQUIPMENT INSTALLATION INSTRUCTION, SCHEDULES AND APPLICABLE CODES FOR ADDITIONAL INFORMATION, INCLUDING REQUIRED CONNECTION LOCATIONS, TYPES AND SIZES.

PERFORM ALL WORK NECESSARY TO PREPARE THE STRUCTURE FOR THE INSTALLATION OF THE WORK. ALL HOLES, OPENINGS AND DAMAGED MATERIALS CREATED DURING CONSTRUCTION SHALL BE REPAIRED. ALL PENETRATIONS SHALL BE SLEEVED AND SEALED SO AS TO BE WATER AND AIR TIGHT.

EQUIPMENT:

ALL COMFORT SYSTEMS CALCULATIONS HAVE BEEN PERFORMED WITH THE ASSUMPTION THAT ALL EXTERIOR DOORS AND WINDOWS ARE CLOSED, AND NO ONE IS COOKING DURING THE PEAK LOAD. OTHER THAN NORMAL EXITING AND ENTERING, ASHRAE RECOMMENDS THAT THE OCCUPANTS KEEP THE EXTERIOR DOORS AND WINDOWS CLOSED AT TEMPERATURES BELOW 70°F, TEMPERATURES ABOVE 80°F, OR AT OUTDOOR WIND SPEEDS OVER 1.8 MPH.

PROVIDE AUXILIARY DRAIN PANS WITH FLOAT SWITCH AND OVERFLOW PIPE. PIPE AS ACCEPTABLE BY LOCAL BUILDING OFFICIALS FOR AIR HANDLERS AND FAN COIL UNITS.

CONTRACTOR SHALL PROVIDE MOTORIZED DAMPERS IN OUTSIDE INTAKE DUCT THAT COMPLY WITH A MAXIMUM LEAKAGE RATE OF 4 CFM/FT<sup>2</sup> AT 1.0 INCH WATER GAUGE WHEN TESTED IN ACCORDANCE WITH AMCA 500D.

GRAVITY DAMPERS USED IN BUILDINGS FOR EXHAUST AND RELIEF SHALL COMPLY WITH A MAXIMUM 2 LEAKAGE RATE OF 20 CFM/FT<sup>2</sup> AT 1.0 INCH WATER GAUGE WHEN TESTED IN ACCORDANCE WITH AMCA 500D.

PROVIDE ALL FILTER FRAMES WITH NEW DISPOSABLE FILTERS AT THE COMPLETION OF THE PROJECT.

PROVIDE SEISMIC PROTECTION OF DUCT, AIR HANDLERS, AND OUTDOOR EQUIPMENT PER SECTION 301.18 OF THE IMC.

HVAC SYSTEMS:

HVAC SYSTEMS MAY INCLUDE WATER SOURCE HEAT PUMPS, BARD SYSTEMS, DX SYSTEMS, SPLIT SYSTEMS, OR AIR-COOLED CHILLER SYSTEMS TO ENSURE ALL SPACES ARE MAINTAINED AT A COMFORTABLE TEMPERATURE OF 75° F/50%RH. ADDITIONALLY, A CENTRAL PRE-CONDITIONED FRESH AIR SYSTEM MAY BE REQUIRED TO MEET VENTILATION CODES.

MECHANICAL EQUIPMENT ACCESS, CATWALKS AND GUARD RAILS PROVIDED BY GENERAL CONTRACTOR. ACCESS DOORS SHALL BE HINGED AND LATCHED. ACCESS DOORS SHALL PROVIDE READY ACCESS TO OPERATING PARTS OF ANY KIND. MAKE DOORS AIRTIGHT WITH A NEOPRENE GASKET. INSULATE DOORS IN INSULATED DUCTWORK.

TOTAL COOLING CAPACITY OF THE UNITS SHALL BE AS SCHEDULED ON DRAWINGS. UNIT CABINET SHALL BE CONSTRUCTED OF GALVANIZED STEEL, BONDED AND COATED WITH BAKED ENAMEL. CABINET INSULATION SHALL COMPLY WITH FLORIDA ENERGY CODE, WITH INTEGRAL ELECTRIC RESISTANCE HEATERS SHALL HAVE A SINGLE-POINT ELECTRIC CONNECTION.

FANS AND MOTORS - THE INDOOR AIR FANS SHALL BE OF THE FORWARD-CURVED CENTRIFUGAL CLASS 1 TYPE. MOTOR AND DRIVE TO PROVIDE HIGHER FAN OUTPUT WHEN JOB REQUIREMENTS EXCEED STANDARD FAN CAPACITY SHALL BE PROVIDED.

COOLING SYSTEM SHALL BE PROTECTED BY LOSS OF CHARGE PROTECTION, HIGH AND LOW PRESSURE SENSORS, COMPRESSOR MOTOR OVERLOADS, AND A TIMING DEVICE WHICH WILL PROHIBIT THE COMPRESSOR MOTOR FROM BEING SUBJECTED TO A STARTING CURRENT MORE THAN ONCE EVERY FIVE MINUTES.

HEAT PUMP/CONDENSING UNIT INSTALLATION:

ARCHITECT/ OWNER TO APPROVE FINAL LOCATION OF HEAT PUMPS/ CONDENSERS. MECHANICAL CONTRACTOR SHALL VERIFY LINE SET LENGTH AND COORDINATE FINAL LOCATION OF ROOF TOP UNITS, HEAT PUMPS/ CONDENSERS AND CONFIRM LOCATION IS NOT VISIBLE FROM FRONT OF THE BUILDING.

CONTRACTOR TO PROVIDE CONCRETE PADS FOR GRADE MOUNTED HEAT PUMPS AND CONDENSING UNITS. PADS SHALL BE A MINIMUM OF 4" THICK 3,000 PSI CONCRETE, 4" MINIMUM ABOVE FINISHED GRADE, AND 4" LARGER ON EACH SIDE THAN THE FOOTPRINT OF THE CONDENSING UNIT UNLESS SPECIFIED OTHERWISE. VERIFY UNIT DIMENSIONS WITH APPROVED SHOP DRAWINGS PRIOR TO FABRICATION OF PADS.

CONTRACTOR TO PROVIDE BUILDING STRUCTURE MODIFICATIONS AS REQUIRED FOR INSTALLATION OF ROOF MOUNTED HEAT PUMPS AND WIND RAILS, 42" HIGH RAILING REQUIRED AROUND ALL ROOF EDGES WITHIN 10'-0" OF ROOFTOP EQUIPMENT. MOUNT CONDENSING UNITS ON 12" TALL, ALL ALUMINUM, WIND RESISTANT, PRE-ENGINEERED STAND ASSEMBLIES. APPROVED MANUFACTURER IS PRECISION ALUMINUM PRODUCTS, INC., OF DEERFIELD BEACH, FL. FABRICATE SHEET METAL COVER TO FIT AROUND SUPPLY/RETURN DUCT UNDER THE ROOF TOP UNIT TO COVER THE OPENING. INTERNALLY INSULATE THE COVER WITH FIBERGLASS DUCT LINER FOR ACOUSTIC ATTENUATION PURPOSES. ALL ROOF PENETRATIONS SHALL BE FLASHED BY A LICENSED ROOFER AT NO ADDITIONAL EXPENSE TO OWNER.

PROVIDE AN ACTUATED DAMPER IN THE OUTSIDE AIR DUCT. DAMPER TO OPEN UPON START OF THE COMPRESSOR AND CLOSE WHEN THE COMPRESSOR SHUTS DOWN. MECHANICAL STOP SHALL BE USED TO ADJUST THE OPEN POSITION, BALANCE TO THE CFM SCHEDULED. PROVIDE BLADE JAMB SEAL FOR DAMPER.

VIBRATION ISOLATION:

ALL BLOWER UNITS AND VIBRATING TYPE EQUIPMENT SHALL BE PROPERLY FITTED WITH MASON UNITIES VIBRATION ISOLATION EQUIPMENT SIZED IN ACCORDANCE WITH EQUIPMENT WEIGHT AND DUTY. ONSTALL EQUIPMENT VIBRATION-ISOLATING PADS WITH MAX. STATED LOAD OF 2400 LB OR GREATER, POSITIONED BENEATH EQUIPMENT TO PROVIDE STABILIZATION AND DAMPEN NOISE AND VIBRATION. MATERIAL IS EITHER NEOPRENE OR NITRILE PADS THAT RESIST CHEMICALS, LUBRICANTS, AND OILS. FLAT SURFACE PADS STABILIZE AND LEVEL EQUIPMENT, WHILE TEXTURED PADS, SUCH AS DIAMOND OR WAFFLE PROFILE, PROVIDE A FIRM GRIPPING SURFACE TO MINIMIZE VIBRATION. USE 6 IN X 6 IN, 3/4 IN THICK, MASON WAFFLE PAD 200J19 OR EQUAL. ALL SUPPLY AND RETURN DUCTWORK SHALL BE EQUIPPED WITH EQUIPMENT CONSISTING OF HEAVY CANVAS OR NEOPRENE FABRIC WITH AIRTIGHT SEAMS AND CONNECTIONS TO THE EQUIPMENT.

PROJECT MANAGEMENT:

PROVIDE A DESIGNATED PROJECT MANAGER WHO WILL BE RESPONSIBLE FOR THE FOLLOWING:

1. CONSTRUCT AND MAINTAIN PROJECT SCHEDULE.
2. ON-SITE COORDINATION WITH ALL APPLICABLE TRADES AND SUBCONTRACTORS.
3. AUTHORIZED TO ACCEPT AND EXECUTE ORDERS OR INSTRUCTIONS FROM OWNER/ARCHITECT.
4. ATTEND PROJECT MEETINGS AS NECESSARY TO AVOID CONFLICTS AND DELAYS.
5. MAKE NECESSARY FIELD DECISIONS RELATING TO THIS SCOPE OF WORK.
6. COORDINATION/SINGLE POINT OF CONTACT.

COORDINATION:

MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL CONTRACTORS SHALL COORDINATE WORK WITH ALL TRADES TO AVOID INTERFERENCE AND ESTABLISH NECESSARY SPACE REQUIREMENTS AND TIE-INS FOR EACH TRADE. WHERE AREAS ARE CONGESTED, THE MECHANICAL CONTRACTOR, IN A COORDINATED EFFORT WITH ALL TRADES, SHALL SUBMIT COORDINATED DRAWINGS OF THE AREA. CONGESTED AREAS SHALL BE AS DETERMINED BY THE ARCHITECT/OWNER OR AS INDICATED ON THE PLANS. THE DRAWINGS SHALL BE TO SCALE, MINIMUM 1/8" SHALL INCLUDE THE FOLLOWING DETAIL:

1. DUCTWORK SIZE (INCLUDING INTERIOR LINER AND/OR INSULATION)
2. BOTTOM AND TOP OF DUCTWORK ELEVATIONS
3. BOTTOM AND TOP OF PIPING ELEVATIONS
4. STRUCTURAL MEMBER TYPE, SIZE, AND ELEVATIONS
5. DIMENSIONS INDICATING LOCATIONS OF DUCTWORK, EQUIPMENT, PIPING, ETC. (IN RELATION TO COLUMN LINES OR BUILDING EXTERIOR).
6. HANGER/SUPPORT TYPE, SIZE, AND LOCATIONS
7. BOTTOM AND TOP OF CONDUIT ELEVATIONS
8. EQUIPMENT WITH TAG, SHOWING ACTUAL SIZE, DIMENSIONED, WITH ACCESSORIES, ELEVATIONS
9. TOP ELEVATION OF RECESSED LIGHT FIXTURES
10. CABLE TRAY ELEVATIONS
11. CHANGES IN ELEVATION

SYSTEM IDENTIFICATION:

PERMANENT ALUMINUM OR PHENOLIC EQUIPMENT TAGS SHALL BE PROVIDED ON EACH HEAT PUMP/AIR HANDLER CLEARLY IDENTIFYING THE "AREA" THE EQUIPMENT SERVES. THE DISCONNECT FOR ALL EQUIPMENT SHALL ALSO BE TAGGED CLEARLY IDENTIFYING THE EQUIPMENT IT SERVES. COORDINATE "AREA" DESIGNATIONS WITH OWNER PRIOR TO TAGGING.

PROVIDE IDENTIFICATION LABELS ON OR NEAR EACH PIECE OF MAJOR EQUIPMENT AND EACH OPERATION DEVICE AND DISCONNECT. LABELS SHALL BE CONSTRUCTED OF ENGRAVED PLASTIC LAMINATE SIGN OR PLASTIC EQUIPMENT MARKER PERMANENTLY SECURED TO EQUIPMENT. LETTERING SHALL BE A MINIMUM OF 1/2 INCH HIGH FOR EQUIPMENT NAME AND 3/8 INCH HIGH FOR EQUIPMENT INFORMATION.

VALVES SHALL BE TAGGED USING PLASTIC LAMINATE TAGS SECURED WITH BRASS CHAINS INDICATING THE VALVE SIZE, SERVICE AND FUNCTION.

PIPING MATERIALS:

CONDENSATE LINES SHALL NOT BE ROUTED TO BUILDING SEWERS. CONDENSATE ON FIRST FLOOR SHALL BE ROUTED TO BUILDING EXTERIOR INDEPENDENTLY. CONDENSATE FROM UPPER FLOORS SHALL BE ROUTED TO HUB/ CONDENSATE RISER PROVIDED BY THE PLUMBING CONTRACTOR.

COMPONENTS OF THE CONDENSATE DISPOSAL SYSTEM SHALL BE ABS, CAST IRON, COPPER AND COPPER ALLOY, CPVC, CROSS-LINKED POLYETHYLENE, GALVANIZED STEEL, PE-RT, POLYETHYLENE, POLYPROPYLENE, PVC OR PVDF PIPE OR TUBING. COMPONENTS SHALL BE SELECTED FOR THE PRESSURE AND TEMPERATURE RATING OF THE INSTALLATION.

ROUTE TO NEAREST DRAIN HUB OR AS INDICATED ON PLANS. UNITS 3 TONS AND SMALLER MAY DRAIN TO GRADE, ELSE COORDINATE WITH PLUMBER TO PROVIDE HUB DRAIN(S) IN MECHANICAL ROOM. HVAC CONTRACTOR TO PROVIDE P-TRAP AT UNIT SIZED FOR 2" GREATER THAN UNIT STATIC PRESSURE. PROVIDE CLEANOUT AT UNIT FOR SUSPENDED HORIZONTAL AIR HANDLERS. CONDENSATE DRAIN LINE SHALL BE NOT LESS THAN THE EQUIPMENT DRAIN LINE SIZE AND IN NO CASE LESS THAN 3/4" PIPE SIZE. DRAIN LINE SHALL SLOPE A MINIMUM OF 1/8" PER FOOT TOWARDS DRAIN. CONDENSATE PIPE SHALL BE SCHEDULE 40 PVC. PROVIDE P-TRAP WITH CLEAN-OUT AND SLOPE TO DRAIN. INSULATE ENTIRE DRAIN LINE WITH WITH 1/2" ARMAFLEX (OR EQUAL) INSULATION RATED FOR PLENUM APPLICATION.

CONDENSATE DRAIN SIZING:

- 1" DIAMETER MINIMUM UP TO 39 TONS
- 1-1/4" DIAMETER MINIMUM 40 TONS UP TO 89 TONS
- 1-1/2" DIAMETER MINIMUM 90 TONS UP TO 125 TONS
- 2" DIAMETER MINIMUM OVER 125 TONS

REFRIGERANT PIPING:

SIZE REFRIGERANT PIPING PER HEAT PUMP MANUFACTURER'S RECOMMENDATION FOR DISTANCE AND LIFT BETWEEN AIR HANDLER AND HEAT PUMP. INCLUDE ANY EQUIPMENT OR PIPE ACCESSORIES RECOMMENDED BY MANUFACTURER. THIS INCLUDES, BUT IS NOT LIMITED TO, SUCTION LINE ACCUMULATORS, HEAD PRESSURE CONTROLS, TXV'S, ORIFICE CHANGE, CRANKCASE HEATER, PIPE MATERIAL, AND TIME DELAY RELAY.

PIPING SHALL BE FIELD FABRICATED ASTM B260 MUELLER STREAMLINE ACR OR READING HARD DRAWN FACTORY SEALED NITROGEN CHARGED SPECIAL REFRIGERATION DUTY COPPER TUBING. FITTINGS SHALL BE MUELLER OR NIBCO WROUGHT COPPER LONG RADIUS REFRIGERATION TYPE.

WORKMANSHIP ON THESE SYSTEMS MUST BE GOOD, AND CLEANLINESS OF PIPING SYSTEMS IS MANDATORY. WORK THAT DOES NOT MEET THESE CRITERIA SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER. THE ENGINEER SHALL DETERMINE WHETHER THE WORK MEETS THESE CRITERIA.

COVER ALL EXPOSED LIQUID LINES AND ALL SUCTION PIPING (INDOORS AND OUTDOORS), FITTINGS, VALVES, ETC., CONTINUOUS THROUGH SLEEVES, HANGERS, ETC., WITH 3/4" FR/ARMAFLEX. INSTALLATION SHALL BE CONDENSATION FREE AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. PAINT ALL INSULATION EXPOSED TO OUTDOORS WITH UV PROTECTIVE PAINT PER MANUFACTURERS RECOMMENDATIONS.

REFRIGERANT PIPING BELOW GRADE SHALL BE ROUTED THROUGH MINIMUM 4" DIAMETER PVC PIPE SLEEVES TO EACH CONDENSING UNIT. ALL UNDERGROUND REFRIGERANT PIPING SHALL BE CONTINUOUS SOFT DRAWN TUBING WITH NO UNDERGROUND JOINTS ALLOWED. REFRIGERANT PIPE SIZES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATION BASED ON LENGTH OF RUN BETWEEN CONDENSING UNITS AND AHU'S.

PIPING ROUTED ALONG BUILDING EXTERIOR WALL SHALL BE PROTECTED BY SHEET METAL HOUSING SECURELY ATTACHED TO WALL AT 8'-0" INTERVALS AND PAINTED TO MATCH BUILDING EXTERIOR.

TRAP OIL IN SUCTION LINE AT EVAPORATOR COIL. NO OTHER COIL TRAPS PERMITTED. PROVIDE SUCTION RISERS, CHECK VALVES, SOLENOID VALVES, OR OTHER DEVICES REQUIRED IN PIPING SYSTEM BY MANUFACTURER'S INSTALLATION INSTRUCTIONS.

FURNISH ALL LABOR AND MATERIALS TO REPLACE REFRIGERANT LOST DURING THE ONE YEAR WARRANTY PERIOD.

REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS OR SHALL BE OTHERWISE SECURED TO PREVENT UNAUTHORIZED ACCESS.

PIPE HANGERS AND SUPPORTS:

ATTACH LINES SECURELY ALONG PAD/FLOOR/EQUIPMENT/STRUCTURE TO PREVENT MOVEMENT. SUPPORT IN A MANNER THAT LINES DO NOT HANG FROM EVAPORATOR CONNECTIONS OR BLOCK ACCESS TO FILTERS, CONTROLS, ETC.

HORIZONTAL PIPE HANGERS, WHERE NEEDED, SHALL BE GRINNEL #260 CLEVIS TYPE, SPACED 5'-0" ON CENTER, SECURELY ATTACHED TO BUILDING CONSTRUCTION. VERTICAL SUPPORT SPACED AT MIN. 8'-0" INTERVALS.

KITCHEN HOOD SYSTEMS

KITCHEN HOOD: SYSTEM SHALL BE LOCATED AS SHOWN ON THE DRAWINGS, MATERIALS, DUCTWORK, FANS, AND/OR EQUIPMENT PERFORMANCE MUST CONFORM TO THE DESIGN STANDARDS OF THE MANUFACTURE. KITCHEN HOOD, EXHAUST FAN, DUCTWORK, FIRE SUPPRESSION AND ALL OTHER RELATED APPURTENANCES SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. VERIFY HOOD REQUIREMENTS BASED ON KITCHEN EQUIPMENT PRIOR TO PURCHASING INSTALLATION.KITCHEN HOOD SHALL BE INTEGRATED WITH THE RANGE(S) TO OPERATE ANYTIME THE RANGE IS IN OPERATION. REFER TO RANGE HOOD NOTES FOR ADDITIONAL INFORMATION.

EXISTING HOODS: CONTRACTOR IS TO COMPLETE A HIGH-PRESSURE WATER TEST ON THE HOOD OR VERIFY THE ANSEL SYSTEM IS FULLY OPERATIONAL.

BALANCING DAMPERS:

PROVIDE FACTORY-FABRICATED BALANCING DAMPERS WITH LOCKING QUADRANTS AT ALL BRANCH TAKE-OFFS TO FACILITATE BALANCING. DAMPER SHALL BE 1 GAGE HEAVIER THAN INSTALLED DUCTWORK. DO NOT INSTALL A VOLUME DAMPER WITH A FRAME THAT PROTRUDES INTO AN AIRSTREAM DUE TO EXCESSIVE NOISE AND PRESSURE DROP. DAMPERS THAT ARE INTEGRAL PARTS OF SUPPLY DIFFUSERS ARE NOT PERMITTED FOR BALANCING. PROVIDE DAMPERS AT BRANCHES OR TAKEOFFS FOR BALANCING.

INSTALL ALL DAMPERS SO THAT THEY ARE ACCESSIBLE FOR ADJUSTMENT. EXTEND DAMPER ROD BEYOND INSULATION AND PROVIDE LOCKING DEVICE. CONSPICUOUSLY MARK DAMPER ROD FOR QUICK IDENTIFICATION. BRIGHT COLORED RIBBONS SHALL BE TIED TO THE DAMPER QUADRANT FOR LOCATIONS TO BE QUICKLY IDENTIFIED. RIBBON SHALL HANG DOWN A MINIMUM OF 12" .

PROVIDE AND INSTALL CABLE OPERATED DAMPER CONTROLLER POTTORF MODEL RCS-10R SINGLE BLADE DIAMETER TO MATCH DUCT ABOVE HARD CEILINGS WHERE ACCESS TO DAMPER IS NOT ACCESSABLE AFTER INSTALLATION.

RETURN AIR SYSTEMS:

SMOKE DETECTORS SHALL BE INSTALLED IN SUPPLY AND RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2,000 CFM (8.9 M<sup>3</sup>/S), IN THE RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, OUTDOOR AIR CONNECTIONS, OR DECONTAMINATION EQUIPMENT AND APPLIANCES. CONTRACTOR SHALL WIRE AIR HANDLERS TO SHUT DOWN IN THE EVENT OF SMOKE DETECTION.

EXCEPTION: SMOKE DETECTORS ARE NOT REQUIRED IN THE RETURN AIR SYSTEM WHERE ALL PORTIONS OF THE BUILDING SERVED BY THE AIR DISTRIBUTION SYSTEM ARE PROTECTED BY AREA SMOKE DETECTORS CONNECTED TO A FIRE ALARM SYSTEM. WHERE RETURN AIR RISERS SERVE TWO OR MORE STORIES AND SERVE ANY PORTION OF A RETURN AIR SYSTEM HAVING A DESIGN CAPACITY GREATER THAN 15,000 CFM (7.1 M<sup>3</sup>/S), SMOKE DETECTORS SHALL BE INSTALLED AT EACH STORY. SUCH SMOKE DETECTORS SHALL BE LOCATED UPSTREAM OF THE CONNECTION BETWEEN THE RETURN AIR RISER AND ANY AIR DUCTS OR PLENUMS.

AIR FILTERS:

FILTERS SHALL BE 1" FIBERGLASS MEDIA THROW AWAY TYPE IN A RIGID FRAME WITH A SUPPORTING MAZE ACROSS BOTH ENTERING AND LEAVING SURFACES. SUPPLY ONE COMPLETE SET OF FILTERS AFTER OWNER'S FINAL ACCEPTANCE. FARR 3030 OR EQUAL.

FIRE DAMPERS:

REFER TO ARCHITECTURAL DRAWINGS TO DETERMINE FIRE RATED WALLS/CEILINGS/ASSEMBLIES AND SMOKE BARRIERS. PROVIDE UL LISTED FIRE DAMPERS OR SUITABLE ARRANGEMENT AT ANY POINT OF FIRE-RATED WALL/CEILING PENETRATION. FIRE DAMPER SHALL BE (TYPE 2) INTERNAL ASSEMBLY OUT OF THE AIR STREAM.

AIR DISTRIBUTION EQUIPMENT:

FURNISH SUPPLY AIR GRILLES AND RETURN AIR REGISTERS WITH OPPOSED BLADE BALANCING DAMPERS AS SCHEDULED ON THE DESIGN DRAWINGS. COORDINATE EXACT LOCATION OF CEILING GRILLES AND DIFFUSERS WITH LIGHTING AND OTHER TRADES. WHERE DIFFUSER OR GRILLE INTERFERES WITH LIGHTING, LOCATE GRILLE OR DIFFUSER IN NEAREST OPEN TILE TO LOCATION SHOWN.

GRILLES, REGISTERS, AND CEILING DIFFUSERS SHALL BE FURNISHED AS SCHEDULED ON THE DESIGN DRAWINGS AND SHALL BE ALL ALUMINUM CONSTRUCTION UNLESS NOTED OTHERWISE. AIR DISTRIBUTION SHALL NOT EXCEED NC-30 NOISE CRITERIA AS DEFINED IN THE LATEST ASHRAE GUIDE.

ALL EXTERIOR LOUVERS SHALL HURRICANE RATED AND PROVIDED WITH ALUMINUM INSECT SCREEN.

EXHAUST AND DRYER DUCT:

EXHAUST AND DRYER DUCTS SHALL NOT TERMINATE OVER WALKWAY. EXHAUST SHALL BE LOCATED A MINIMUM OF 10 FEET FROM OUTSIDE AIR INTAKE AND A MINIMUM OF 3 FEET FROM BUILDING OPENINGS.

CONTRACTOR SHALL PROVIDE DRYER AN IN-O-VATE TECHNOLOGIES 'THE DRYER BOX' FOR EACH RESIDENTIAL SYTLE DRYER. REFER TO DETAILS FOR DRYER EXHAUST SYSTEM REQUIREMENTS. GROUND FLOOR UNITS: ROUTE DUCT UPWARD AND ABOVE CEILING OF UNIT. ALL OTHER UNITS: ROUTE DUCT DOWNWARD AND BELOW FLOOR OF UNIT. TO "DEFLECT-O" DAHCA ALUMINUM WALL CAP WITH BACKDRIFT DAMPER.

WHERE A CLOTHES DRYER PENETRATES A WALL OR CEILING MEMBRANE, THE ANNULAR SPACE SHALL BE SEALED WITH NONCOMBUSTIBLE MATERIAL. APPROVED FIRE CAULKING OR A NONCOMBUSTIBLE DRYER EXHAUST DUCT WALL RECEPTACLE DUCTS THAT EXHAUST CLOTHES DRYERS SHALL NOT PENETRATE OR BE LOCATED WITHIN ANY FIRE-LOCKING, DRAFTSTOPS OR ANY WALL, FLOOR/CEILING OR OTHER ASSEMBLY REQUIRED BY THE INTERNATIONAL BUILDING CODE TO BE FIRE-RESISTANCE RATED, UNLESS SUCH DUCT IS CONSTRUCTED OF GALVANIZED STEEL OR ALUMINUM OF THE THICKNESS SPECIFIED IN SECTION 603.4 AND THE FIRE-RESISTANCE RATING IS MAINTAINED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. FIRE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS AND ANY SIMILAR DEVICES THAT WILL OBSTRUCT THE EXHAUST FLOW SHALL BE PROHIBITED IN CLOTHES DRYER EXHAUST DUCTS.

EXHAUST FANS:

FURNISH EXHAUST FANS WITH PERFORMANCE AND CAPACITIES AS LISTED ON THE DESIGN DRAWINGS. RESTROOM EXHAUST FANS SHALL BE INTERLOCKED WITH THE LIGHTS BY ELECTRICAL CONTRACTOR, UNLESS SPECIFIED OTHERWISE ON THE ELECTRICAL DRAWINGS. SEAL PERIMETER OF EXHAUST AND MAKE-UP AIR VENTS WITH PAINTABLE WEATHERPROOF SEALANT. COORDINATE WITH ARCHITECT TO LOCATE EXHAUST FANS, EXHAUST GRILLES, WALL OR ROOF CAPS A MINIMUM DISTANCE OF 10'-0" FROM ANY OPERABLE WINDOW, DOOR OR FRESH AIR INTAKE.

CEILING FANS:

MECHANICAL CONTRACTOR SHALL COORDINATE FANS EXACT LOCATION OF CEILING FANS WITH STRUCTURE AND LIGHTING. FAN SUPPLIER/MANUFACTURER TO ASSIST WITH FINAL LOCATION/MOUNTING HEIGHT OF FANS. MOUNT FAN PER MANUFACTURERS RECOMMENDATIONS. FAN WITH EXPOSED BLADES TO HAVE 24" CLEARANCE FROM ALL OBSTRUCTIONS. MISCELLANEOUS STRUCTURAL STEEL FOR FAN SUPPORT BY GENERAL CONTRACTOR.

CARBON MONOXIDE DETECTION SYSTEMS:

CARBON MONOXIDE DETECTING VENTILATION FAN CONTROLLER AND MONITOR(S): HONEYWELL VULCAN 201M 120VC. FURNISH FOR INSTALLATION BY ELECTRICAL CONTRACTOR. DETECTOR SHALL ENERGIZE EF-7 WHEN 25 PPM CO LEVEL DETECTED. ALARM SHALL SOUND WHEN CO LEVEL EXCEEDS 100 PPM FOR 15 MINUTES. LOCATE DETECTOR PER MANUFACTURERS RECOMMENDATION OR APPROXIMATELY 6'-0" ABOVE FINISHED FLOOR.

HEAT AND VENTILATION AREAS

AREAS DESIGNATED ON FLOOR PLANS AS HEAT AND VENTILATION, CONTRACT SHALL PROVIDE AND INSTALL UNIT HEATERS, AIR INTAKE, AND LOUVERED EXHAUST. INTERLOCK UNIT HEATERS WITH BAY DOORS TO TURN OFF HEATERS WHEN DOORS ARE OPEN LONGER THAN 5 MINUTES. WALL MOUNTED AIR INTAKE LOUVERS SHALL BE INTERLOCKED/OPENED UPON ACTIVATION OF VENTILATION FAN. LOUVER TO CLOSE UPON DE-ACTIVATION OF VENTILATION FAN. ROOF TOP AIR INTAKE UNITS ARE TO BE PROVIDED WITH ROOF CURB, INSECT/BIRD SCREEN. LOCATE TO MAINTAIN 10'-0" MINIMUM FROM ANY PLUMBING VENTS OR BUILDING EXHAUST.

RENOVATION AND ADDITION PROJECTS

PREPARATION OF THESE CONSTRUCTION DRAWINGS IS BASED ON FIELD INVESTIGATIONS OF AS-BUILT CONDITIONS AS CONDUCTED BY THE ARCHITECT AND RAST DALLERY ENGINEERS, P.C. AS A RESULT, REASONABLE ASSUMPTIONS WERE MADE WITH RESPECT TO CONCEALED OR OTHERWISE INACCESSIBLE PORTIONS OF THE EXISTING CONSTRUCTION AND ITS SYSTEMS. AS SUCH, VARIED GRAPHIC DEPICTION OF THE WORK TO BE PERFORMED ARE CONCEPTUAL IN NATURE AND WILL BE SUBJECT TO ADJUSTMENTS IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS, SLOPES, CONNECTION TO EXISTING SERVICES AND OTHER UNITS OF MEASURE AS IT PERTAINS TO THE EXECUTION OF THE WORK, AND TO IDENTIFY DISCREPANCIES AND REPORT INFORMATION TO THE ARCHITECT AND OWNER FOR REVIEW AND ADJUSTMENTS.

REPLACEMENT OF PACKAGED ROOFTOP UNITS CONTRACTOR SHALL RE-USE EXISTING ROOF OPENING AND MODIFY ROOF CURB AS REQUIRED. FURNISH AND INSTALL INSULATED STEEL AS REQUIRED TO PROPERLY SUPPORT THE ROOF CURB. MECHANICAL CONTRACTOR SHALL USE THE OWNERS ORIGINAL ROOF CONTRACTOR FOR ALL NEW ROOF OPENINGS, PENETRATIONS, AND STRUCTURAL SUPPORT. GENERAL CONTRACTOR SHALL COORDINATE ALL WORK. EXISTING ROOF WARRANTY SHALL BE MAINTAINED.

EXISTING PACKAGED ROOFTOP UNITS SHALL BE SERVICED AND CONFIRMED FUNCTIONAL. ALSO, CONFIRM COOLING CAPACITY AFTER SERVICE OF THE UNIT. PROVIDE A WRITTEN REPORT TO THE ARCHITECT, ENGINEER, AND OWNER ON SERVICE WORK REQUIRED AND THE PERFORMANCE OF THE UNIT. REPLACE ALL COMPONENTS/ACCESSORIES THAT ARE NOT FUNCTIONAL, HAVE EXTENSIVE WEAR, OR ARE DAMAGED. PROVIDE NEW PROGRAMMABLE THERMOSTAT/HUMIDISTAT. FURNISH AND INSTALL UV-C GERMICIDAL LAMPS DOWNSTREAM OF COOLING COIL.

VERIFY AND INSPECT EXISTING FIRE DAMPER, CONFIRM THE FIRE DAMPER IS OPERABLE AND CLOSSES FULLY. IF NECESSARY REPAIR OR REPLACE FIRE DAMPER AS REQUIRED.

SHOP DRAWINGS AND SUBMITTALS:

SUBMIT SHOP DRAWINGS AND MANUFACTURER'S DATA FOR ALL NEW EQUIPMENT FOR ENGINEER'S APPROVAL PRIOR TO PURCHASE AND/OR FABRICATION. SHOP DRAWINGS FOR EQUIPMENT REQUIRING ELECTRIC POWER OR CONTROL WIRING SHALL INCLUDE COMPLETE WIRING DIAGRAMS.

HVAC CONTRACTORS SHALL SUBMIT COMPLETE DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. SHOP DRAWINGS SHALL INCLUDE COORDINATION WITH GENERAL CONTRACTOR REGARDING EXACT OPENINGS REQUIRED IN EXTERIOR WALLS. THE DUCTWORK SHOP DRAWINGS WILL ONLY BE REVIEWED FOR COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS. DRAWINGS WILL NOT BE CHECKED FOR COORDINATION WITH OTHER TRADES OR BUILDINGS STRUCTURE. IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO COORDINATE AND VERIFY ROUTING AND EXACT LOCATION OF SYSTEM COMPONENTS.

SUBSTITUTIONS:

EQUIPMENT AND DESIGN OF SYSTEMS INDICATED ON THE DRAWINGS AND WITHIN THESE SPECIFICATIONS SHALL BE CONSIDERED AS "STANDARD OF QUALITY". NO SUBSTITUTIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER. ALL EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED. FREE OF DEFECTS, AS SHOWN ON THE DRAWINGS OR INDICATED IN SPECIFICATIONS. DEVIATIONS FROM SPECIFIED EQUIPMENT AFFECTING ELECTRICAL REQUIREMENTS SHALL BE COORDINATED BETWEEN VENDOR, MECHANICAL CONTRACTOR, AND ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING BIDS. FAILURE TO DO SO WILL NOT BE CAUSE FOR CHANGE OF BID AT A LATER TIME. IN ADDITION, THE MECHANICAL CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR ANY AND ALL CHANGES TO ENGINEERING PLANS REQUIRED BY AUTHORITY HAVING JURISDICTION.

TESTING:

ALL PIPING SYSTEMS FOR WHICH SPECIFIC TESTS HAVE NOT BEEN SPECIFIED SHALL BE TESTED HYDROSTATICALLY AND PROVED MECHANICALLY SOUND AND FREE FROM LEAKS. TEST PRESSURE FOR SUCH TESTS SHALL BE 150% OF THE DESIGN WORKING PRESSURE OF THE LINE, BUT IN NO CASE LESS THAN 125 PSIG. BALANCE ALL WATER CIRCULATING SYSTEMS SO THAT QUANTITIES CIRCULATED WILL BE AS SPECIFIED.

CONDUCT DUCT LEAKAGE TEST ON ALL DUCTWORK CONSTRUCTED TO 2" PRESSURE CLASS OR HIGHER. REFER TO PLANS FOR DUCTWORK PRESSURE CLASS SCHEDULE. LEAKAGE TEST SHALL BE IN ACCORDANCE WITH SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL. REPAIR LEAKS AND REPEAT TESTS UNTIL TOTAL LEAKAGE IS LESS THAN THE MAXIMUM PERMISSIBLE LEAKAGE FOR THE PRESSURE CLASS AS LISTED ON THE PLANS.

PRIOR APPROVAL BY THE ENGINEER OF TESTING AND BALANCING CONTRACTOR IS REQUIRED. THE MECHANICAL CONTRACTOR SHALL PROVIDE A LETTER TO THE OWNER STATING THE SYSTEM(S) ARE COMPLETE AND READY FOR TEST AND BALANCE. CONTRACTOR SHALL TEST AND BALANCE SYSTEM TO WITHIN 10% +/- PRIOR TO PROVIDING LETTER TO THE OWNER STATING COMPLETE AND READY FOR FINAL TESTING.

A THIRD PARTY TEST AND BALANCE FIRM SPECIALIZING IN TOTAL SYSTEM TESTING AND BALANCING SHALL BE CONTRACTED BY THE CONTRACTOR TO EXECUTE THE FINAL TEST AND BALANCE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS. TESTING AGENCY QUALIFICATIONS: AGENCY SHALL BE NEBB OR AABC CERTIFIED IN TESTING AND BALANCING DISCIPLINES REQUIRED FOR THIS PROJECT. WORK SHALL BE PERFORMED UNDER DIRECT SUPERVISION OF A NEBB, OR AABC CERTIFIED SUPERVISOR.

ADJUST THE AIR CONDITIONING SYSTEMS, VENTILATING SYSTEMS, FANS, ETC., TO DELIVER NOT LESS THAN THE REQUIRED AIR QUANTITY WITH QUANTITIES WITH-IN 10% OF EXCESS AND SUBJECT TO THE APPROVAL OF THE ENGINEER IF FOUND TO NOT HAVE OBJECTIONABLE EFFECTS SUCH AS NOISE, DRAFTS, OR MOTOR OVERLOAD.

THIS CONTRACTOR SHALL PROVIDE THREE (3) COPIES OF A TEST AND BALANCE REPORT TO THE ENGINEER AT TIME OF SUBSTANTIAL COMPLETION INSPECTION. THE REPORT SHALL BE PREPARED BY A CONTRACTOR CERTIFIED BY ASSOCIATED AIR BALANCE COUNCIL OR NATIONAL ENVIRONMENTAL BALANCING BUREAU.

THE TEST AND BALANCE REPORT SHALL BE TYPEWRITTEN AND CONTAIN THE FOLLOWING DATA:

1. DATE, TIME, WEATHER, WHEN TEST TAKEN.
2. AIR CAPACITIES AT EACH UNIT INCLUDING OUTSIDE AIR. (ENTERING AND LEAVING DBWB)
3. STATIC PRESSURE THROUGH UNITS AND UNIT COMPONENTS.
4. MOTOR OPERATING VOLTAGE AND AMPERAGE.
5. DRIVE TYPES, SIZES AND SPEED RANGE.
6. IDENTIFICATION OF ALL AIR TERMINAL DEVICES WITH DESIGN CFM AND ACTUAL CFM.

ADDITIONALLY, SYSTEMS DRAWING CLEARLY MARKED TO IDENTIFY LOCATION OF EQUIPMENT AND AIR DEVICES TESTED SHALL BE PROVIDED ALONG WITH THE WRITTEN TEST AND BALANCE REPORT.

MAINTENANCE MANUALS

PROVIDE COMPLETE OPERATING AND MAINTENANCE MANUALS IN PDF FORM ON ALL NEW EQUIPMENT. ORGANIZE TYPES OF INFORMATION. THE INFORMATION WILL BE TURNED OVER TO THE OWNER AT TIME OF SUBSTANTIAL COMPLETION:

- OPERATING AND MAINTENANCE INSTRUCTIONS
- SPARE PARTS LIST
- COPIES OF WARRANTIES
- WIRING DIAGRAMS
- INSPECTION REPORTS AND APPROVALS
- SHOP DRAWINGS AND PRODUCT DATA
- TEST AND BALANCE INFORMATION

TRAINING SERVICES

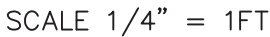
THOROUGHLY INSTRUCT THE OWNER'S REPRESENTATIVE IN THE OPERATION OF ALL EQUIPMENT FURNISHED AND LOCATION OF ALL VALVES AND CONTROL DEVICES.

TRAIN BUILDING OWNER'S PERSONNEL DURING NORMAL WORKING HOURS ON STARTUP AND SHUTDOWN PROCEDURES, TROUBLESHOOTING PROCEDURES, SERVICING AND PREVENTATIVE MAINTENANCE SCHEDULE AND PROCEDURES. REVIEW WITH THE OWNER'S PERSONNEL, THE DATA CONTAINED IN THE OPERATING AND MAINTENANCE MANUALS. SCHEDULE TRAINING WITH OWNER, PROVIDE AT LEAST 7-DAYS PRIOR NOTICE TO ARCHITECT/ENGINEER.

WARRANTY/GUARANTEE:

CONTRACTOR SHALL PROVIDE A WARRANTY/GUARANTEE THAT ALL WORKMANSHIP, NEW EQUIPMENT, AND MATERIALS ARE FREE FROM DEFECTS FOR A WARRANTY PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OR FIRST BENEFICIAL





- ## M1.01

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HEAT PUMP SCHEDULE								
MARK	NOMINAL TONS	COOLING CAPACITY		HEATING CAPACITY (MBH @ 47° F)	SEER	VOLTS/PH.	MANUFACTURER & MODEL NO.	ACCESSORIES
		TOTAL	SENSIBLE					
HP-1	5.0	57.5	48.0	57.0	18	208/230/1	DAIKIN RXTQ60TBVJUB	4,8,9
ACCESSORIES: 1. CRANKCASE HEATER 2. HARD START DEVICE 3. LIQUID LINE SOLENOID 4. DISCONNECT SWITCH 5. LOW AMBIENT CONTROL 6. ANTI-SHORT CYCLE TIMER 7. LONG LINE SET (ALL UNITS ON FOURTH FLOOR) 8. VARIABLE-SPEED, INVERTER DRIVE, HIGH-EFFICIENCY. 9. DAIKIN VRV IV S-SERIES SYSTEM- NO SUBSTITUTIONS								

AIR HANDLER SCHEDULE										
MARK	NOMINAL TONS	COOLING (MBU)	CFM	O.A CFM	EXT. S.P. (IN. WC)	FAN WATTS	SPEED SETTING	VOLTS/PH.	MANUFACTURER & MODEL NO.	ACCESSORIES
FCU-1	0.75	9.5	318	--	0.5	78	HIGH	208/230/1	DAIKIN FXSQ09TBVJU - CONSEALED	1,2,3,4
FCU-2	0.75	9.5	318	--	0.5	78	HIGH	208/230/1	DAIKIN FXSQ09TBVJU - CONSEALED	1,2,3,4
FCU-3	2.5	30	812	--	0.5	230	HIGH	208/230/1	DAIKIN FXSQ30TBVJU - CONSEALED	1,2,3,4
FCU-4	2.5	30	812	--	0.5	230	HIGH	208/230/1	DAIKIN FXSQ30TBVJU - CONSEALED	1,2,3,4
ACCESSORIES: 1. AUTO CHANGEOVER DIGITAL THERMOSTAT/HUMIDITY CONTROLLER. 2. INTEGRAL DISCONNECT SWITCH 3. INTEGRAL FILTER FRAME 4. SINGLE POINT POWER CONNECTION.										

FAN SCHEDULE									
MARK	DESCRIPTION	SERVICE	CFM	RPM	ESP	HP (WATTS)	VOLTS/PH.	MANUF. & MODEL NO.	ACCESSORIES
EF-1	CEILING EXHAUST FAN	BATH, KITCHEN	75	900	0.26	16	125/1	GREENHECK SP-A90	1,2,3
ACCESSORIES 1. 4"Ø RIGID METAL DUCT TO WALL CAP. 2. UL LISTED RADIATION DAMPER ASSEMBLY. 3. BACKDRAFT DAMPER 4. 4"Ø METAL DUCT TO ROOF CAP. OFFSET TO BACK SIDE OF ROOF.									

DIFFUSER, REGISTER, AND LOUVER SCHEDULE							
MARK	DESCRIPTION	SERVICE	CFM	STAT. PRESS.	NECK SIZE	MANUFACTURER & MODEL NO.	ACCESSORIES
TMR	ROUND CEILING DIFFUSERS	SUPPLY	75-120	.065	6"Ø	TITUS TMR-AA = THREE CONE ALUMINUM	5
CD-1	SQUARE CEILING DIFFUSERS	SUPPLY	75-120	.065	8"Ø	TITUS TMS-AA = ALUMINUM	1
G-1	SUPPLY GRILLE	SUPPLY	40-75	.065	6"x6"	TITUS 272-AA = ALUMINUM	1
R-1	FILTER GRILLE	RETURN	< 900	.022	24"x24"	TITUS 3FFS = 3/4" SPACING ALUMINUM	13
ACCESSORIES: 1. LAY-IN CEILING GRID 2. SURFACE MOUNT 3. RADIATION DAMPER 4. PROVIDE OPPOSED BLADE DAMPER (FACE OPERATED) 5. DUCT MOUNTED 6. TOTAL DIFFUSER LENGHT 4 FT ACTIVE SECTIONS WITH INSULATED PLENUM AT EACH END 7. BRANCH DUCT TO SLOT DIFFUSER TO BE TWO (2) INCHES LARGER THAN NECK SIZE (I.E. 8"Ø NECK SIZE, BRANCH DUCT SHALL BE 10"Ø) 8. PROVIDE MOLDED INSULATION BLANKET 9. AIR SCOOP DAMPER (FACE OPERATED) 10. END CAP AND GASKET SEAL 11. BLANK-OFF FOR NON-ACTIVE SECTIONS 12. UL LISTED FIRE DAMPER 13. PROVIDE MERV 8 AIR FILTER AND SPARE FILTER							
NOTES: 1. BRANCH DUCT TO BE DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE 2. DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE INDICATED BY FLOW ARROWS (→) 3. ARCHITECT TO APPROVE/CONFIRM COLOR OF DIFFUSERS/REGISTERS/GRILLES/LOUVERS.							

SYSTEM CONTROLS / SEQUENCE OF OPERATIONS
<p>FACTORY MOUNTED CONTROL SHALL BE PROVIDED TO ACCOMPLISH THE SEQUENCE OF OPERATION. ALL INTERIOR CONTROLS SHALL BE FACTORY FURNISHED AND INSTALLED.</p> <p>PROVIDE ALL 24 VOLT WIRING BETWEEN CONTROL DEVICES AS NECESSARY TO MAKE COMPLETE AND OPERATION SYSTEM. PROVIDE 110/24 VAC TRANSFORMERS AS REQUIRED. COORDINATE WITH DIVISION 16 FOR 120V POWER ROUGH-IN, CONTROL, POWER AND WIRING. 24 VOLT WIRING SHALL BE PLENUM RATED.</p> <p>OCCUPIED AND UNOCCUPIED SCHEDULES (TIME) TO BE DEFINED BY OWNER. SET ALL THERMOSTATS 2 TO 4 DEGREES F OF EACH OTHER. RECOMMENDED INITIAL SET POINTS ARE TO BE ADJUSTABLE AFTER INSTALLATION AND TESTING.</p> <p>INITIAL SETPOINTS:</p> <p>OCCUPIED</p> <p>– 75°F, 50% TO 55% RH (SUMMER)</p> <p>– 68°F TO 70°F (WINTER)</p> <p>UNOCCUPIED</p> <p>– 80°F TO 82°F, 50% TO 60% RH (SUMMER)</p> <p>– 60°F TO 62°F (WINTER)</p> <p>SPLIT SYSTEM HEAT PUMPS/AIR HANDLERS</p> <p>– UNITS SHALL OPERATE OFF OF A LOCAL THERMOSTAT.</p> <p>– UNITS SHALL ENERGIZE, AS REQUIRED, TO MEET SETPOINT.</p> <p>EXHAUST FANS</p> <p>– BATHROOM FANS OPERATE WITH ROOM LIGHTS.</p>

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MECHANICAL SCHEDULES

REVISIONS

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DATE

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HDGA 2314

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Mohamed Said Mahmoud

No. 88276

STATE OF FLORIDA

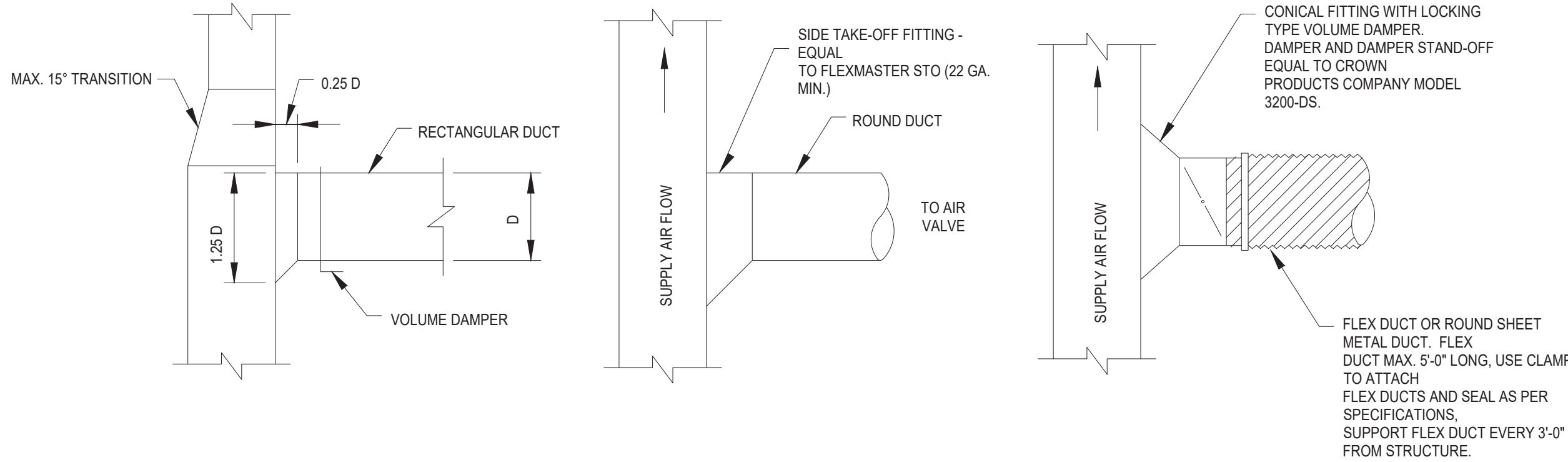
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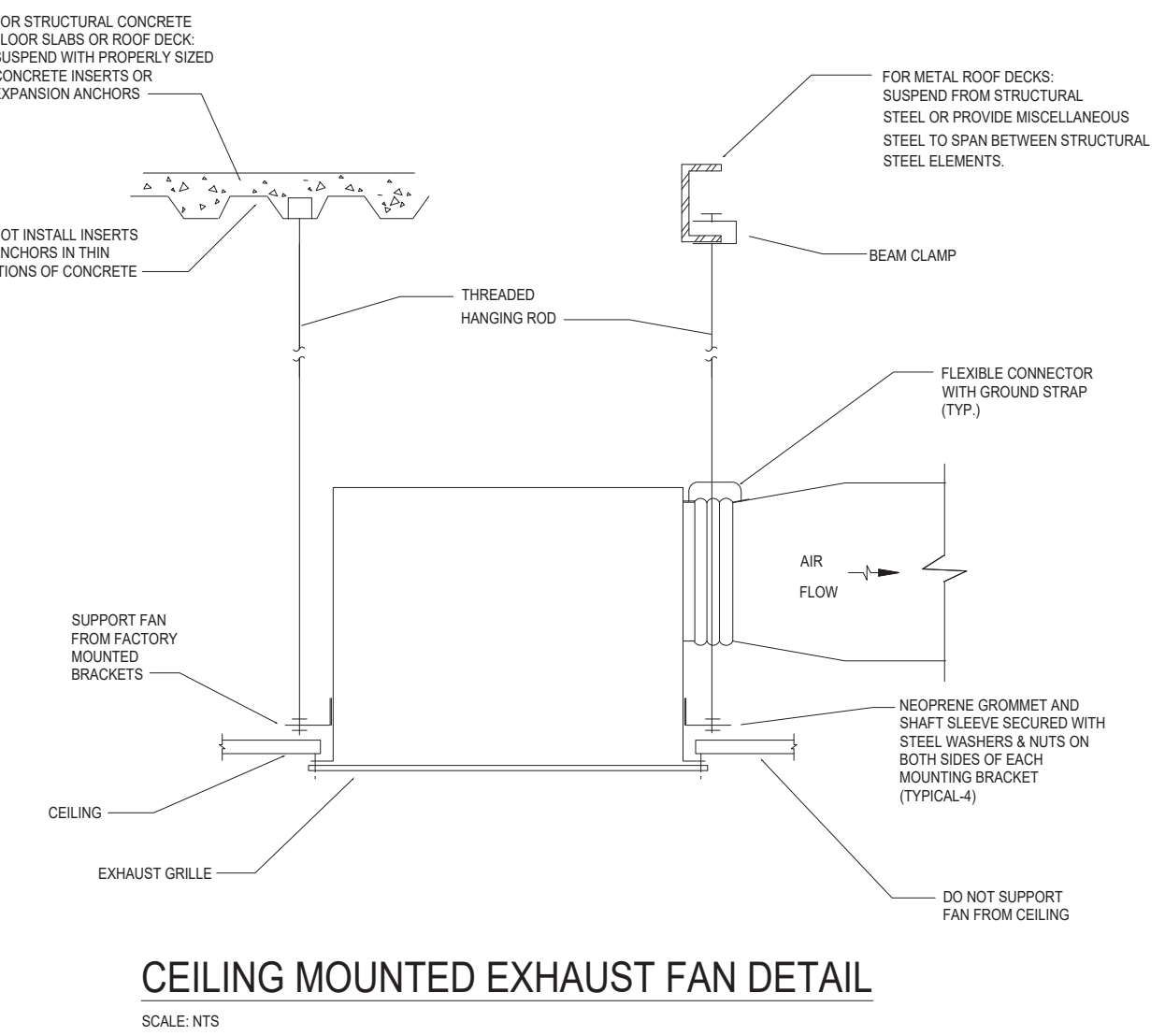
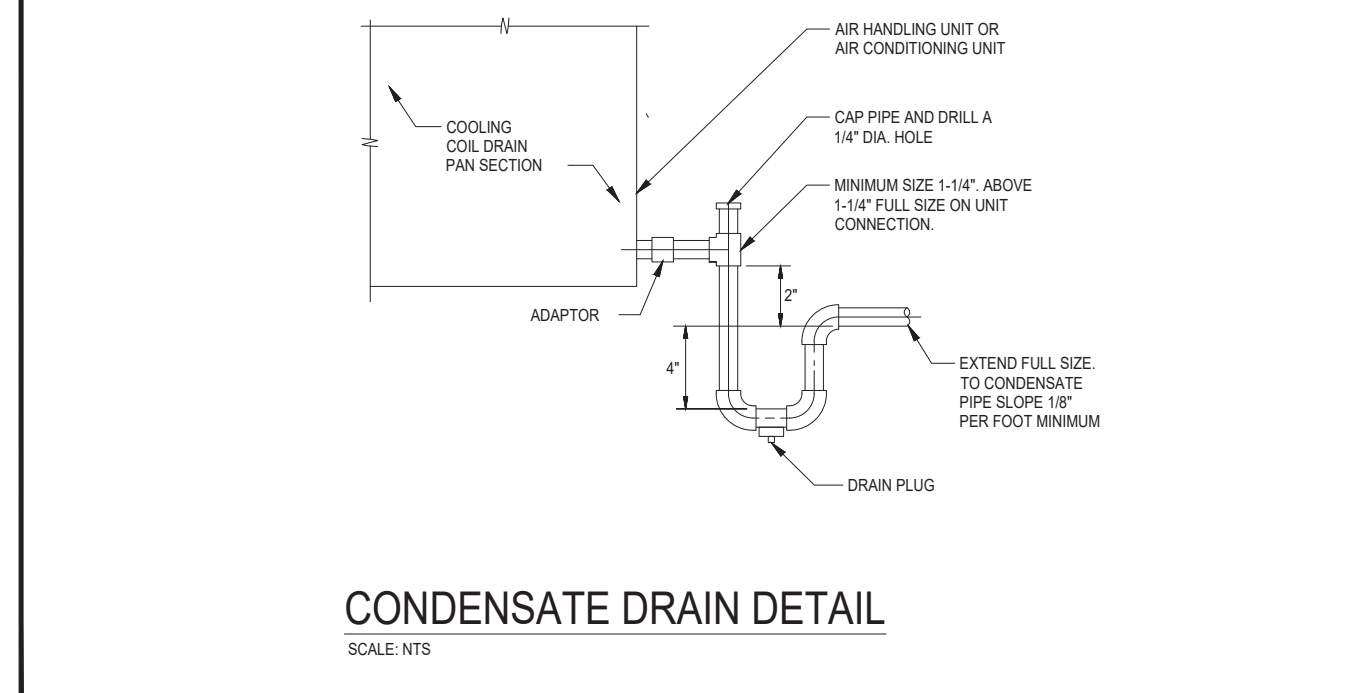
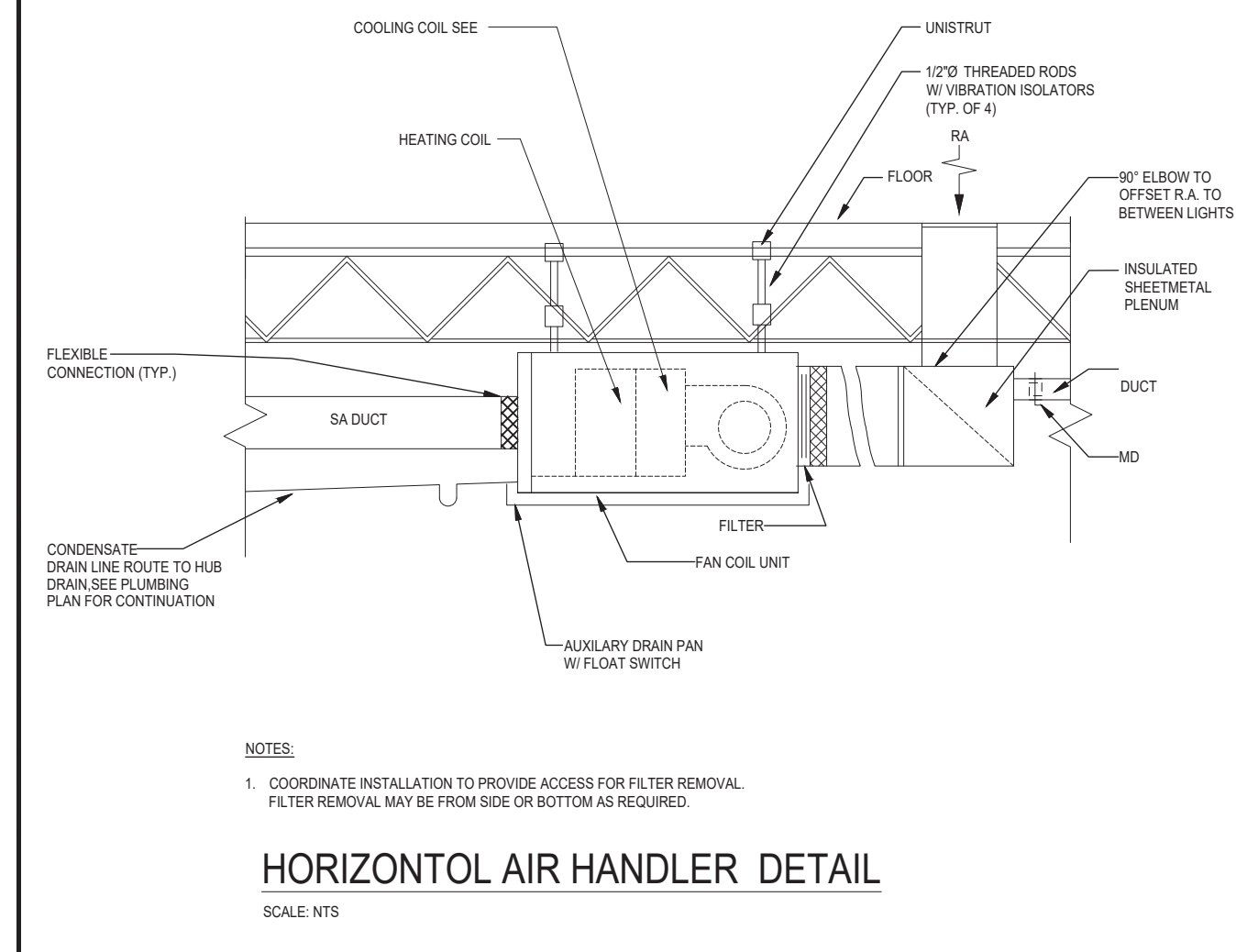
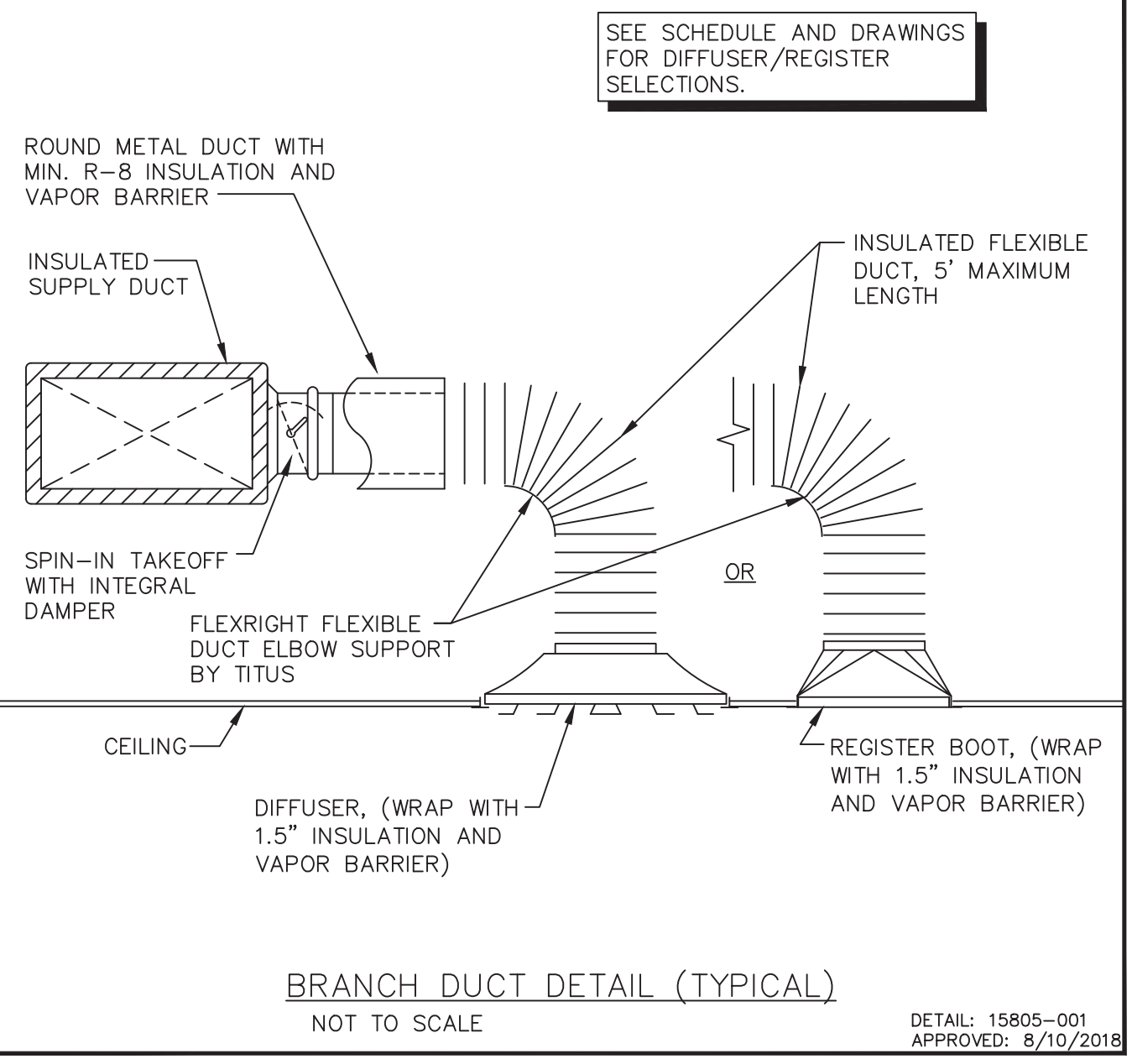
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DUCT CONNECTION DETAILS  
SCALE: NTS



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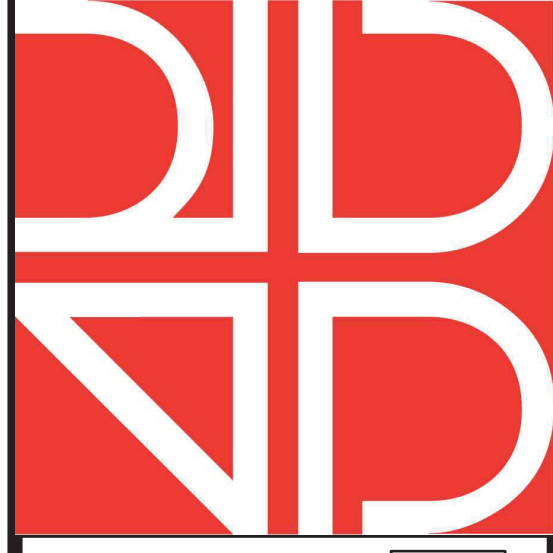


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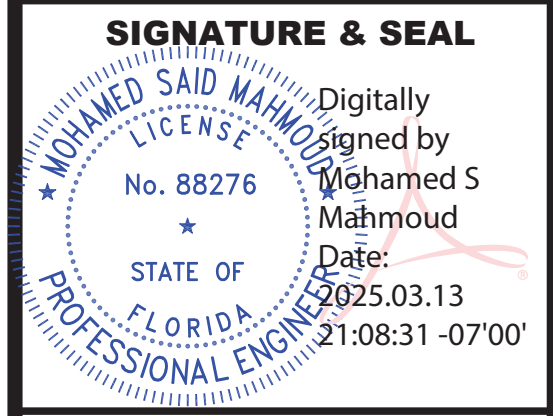
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MECHANICAL DETAILS

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PLUMBING SPECIFICATIONS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. GENERAL PROVISIONS SPECIFICALLY APPLICABLE TO DIVISION 15 SECTIONS, IN ADDITION TO DIVISION 1 - GENERAL REQUIREMENTS.

1.2 SCOPE

- A. THE WORK SHALL INCLUDE THE PROVISIONS OF SYSTEMS, EQUIPMENT AND MATERIALS SPECIFIED IN THIS DIVISION AND AS CALLED FOR ON THE DRAWINGS. WORK SHALL ALSO INCLUDE SUPERVISION, OPERATION, METHODS AND LABOR FOR THE FABRICATION, START-UP AND TESTS FOR A COMPLETE OPERATIONAL PLUMBING INSTALLATION.

- B. DRAWINGS FOR THE WORK ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO CONVEY THE SCOPE OF THE INSTALLATION AND TO INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS PIPE FITTINGS, ACCESS PANELS, AND SLEEVES MAY NOT BE SHOWN. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE EQUIPMENT TO FIT THE SPACE PROVIDED, THE LOCATION AND SIZES FOR PIPE FITTINGS, SLEEVES, INSERTS, FIRE AND/OR SMOKE DAMPERS, AND OTHER BASIC ITEMS REQUIRED BY CODE AND OTHER SECTIONS SHALL BE COORDINATED AND INCLUDED FOR THE PROPER INSTALLATION OF THE WORK.

- C. EQUIPMENT SPECIFICATIONS MAY NOT DEAL INDIVIDUALLY WITH MINUTE ITEMS REQUIRED SUCH AS COMPONENTS, PARTS, CONTROLS AND DEVICES WHICH MAY BE REQUIRED TO PRODUCE THE EQUIPMENT PERFORMANCE SPECIFIED OR AS REQUIRED TO MEET THE EQUIPMENT WARRANTIES. WHERE SUCH ITEMS ARE REQUIRED, THEY SHALL BE INCLUDED BY THE INSTALLER OF THE EQUIPMENT, WHETHER OR NOT SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS WITH NO ADDITIONAL COST INCURRED.

- D. WHERE NOTED ON THE DRAWINGS OR INDICATED IN OTHER SECTIONS OF THE SPECIFICATION, THE CONTRACTOR FOR THIS DIVISION SHALL INSTALL PLUMBING EQUIPMENT FURNISHED BY OTHERS, AND SHALL MAKE ALL FINAL CONNECTIONS. CONTRACTOR SHALL INSTALL EQUIPMENT AND SYSTEMS IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

- E. COORDINATE WITH ALL TRADES IN SUBMITTAL OF SHOP DRAWINGS. TIGHT SPACE CONDITIONS SHALL BE DETAILED TO THE SATISFACTION OF ALL TRADES, SUBJECT TO THE REVIEW AND FINAL ACCEPTANCE OF THE ARCHITECT/ENGINEER. IN THE EVENT THAT THE CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES OR SO AS TO CAUSE ANY INTERFERENCE WITH THE WORK OF THE OTHER TRADES THIS CONTRACTOR SHALL MAKE ALL REQUIRED CHANGES TO CORRECT THE CONDITION AT NO ADDITIONAL COST TO THE PROJECT.

- F. CONTRACTOR SHALL VERIFY ALL EQUIPMENT CONNECTION SIZES PRIOR TO INSTALLATION OF ANY SYSTEMS. THIS CONTRACTOR SHALL ADJUST PIPING SYSTEM SIZES AS REQUIRED TO MATCH EQUIPMENT CONNECTIONS. UTILIZE REDUCERS WHERE EQUIPMENT CONNECTIONS ARE SMALLER THAN PIPE SIZES INDICATED ON PLANS, NO PIPING SHALL BE DECREASED IN SIZE (IN THE DIRECTION OF FLOW).

G. EXAMINATION OF BIDDING DOCUMENTS:

1. EACH BIDDER SHALL EXAMINE THE BIDDING DOCUMENTS CAREFULLY AND NOT LATER THAN TEN (10) DAYS PRIOR TO THE DATE FOR RECEIPT OF BIDS, SHALL MAKE WRITTEN REQUEST TO THE ENGINEER FOR INTERPRETATION OR CORRECTION OF ANY AMBIGUITY, INCONSISTENCY OR ERROR THEREIN. ANY INTERPRETATION OR CORRECTION WILL BE ISSUED AS AN ADDENDUM BY THE ENGINEER. ONLY A WRITTEN INTERPRETATION OR CORRECTION TO BID DOCUMENTS BY ADDENDUM SHALL BE BINDING. NO BIDDER SHALL RELY UPON ANY INTERPRETATION OR CORRECTION GIVEN BY ANY OTHER METHOD.

H. SUBSTITUTIONS:

1. EXCEPT AS PROVIDED BELOW, EACH BIDDER REPRESENTS THAT HIS BID IS BASED UPON THE MATERIALS AND EQUIPMENT DESCRIBED IN THE BIDDING DOCUMENTS.
2. NO SUBSTITUTIONS FOR OTHER MATERIALS AND EQUIPMENT WILL BE CONSIDERED UNLESS WRITTEN REQUEST HAS BEEN SUBMITTED TO THE ENGINEER FOR APPROVAL AT LEAST TEN (10) DAYS PRIOR TO THE DATE FOR RECEIPT OF BIDS. EACH SUCH REQUEST SHALL INCLUDE A COMPLETE DESCRIPTION OF THE PROPOSED SUBSTITUTE, THE NAME OF THE MATERIAL OR EQUIPMENT FOR WHICH IT IS TO BE SUBSTITUTED, DRAWINGS, CUTS, PERFORMANCE AND TEST DATA OR INFORMATION NECESSARY FOR A COMPLETE EVALUATION.
3. IF THE ENGINEER APPROVES ANY PROPOSED SUBSTITUTION, SUCH APPROVAL WILL BE ISSUED AS AN ADDENDUM FORWARDED TO ALL PARTICIPATING BIDDERS.
4. IF ANY BIDDER IS UNABLE TO PROCURE WRITTEN APPROVAL OF ANY SUBSTITUTION FROM THE ENGINEER PRIOR TO THE OPENING OF BIDS, THEN HE SHALL BASE HIS BID ON ITEMS AND SYSTEMS AS SPECIFIED IN BID DOCUMENTS.
5. SUBSTITUTIONS REQUESTED ON THE BID PROPOSAL FORM WHICH ARE PRIOR APPROVED BY THE ENGINEER WILL BE INCORPORATED INTO THE CONTRACT WITH THE SUCCESSFUL BIDDER.
6. REQUESTS FOR ANY SUBSTITUTIONS NOT SUBMITTED AND APPROVED IN ACCORDANCE WITH THE ABOVE INSTRUCTIONS WILL BE DENIED BY THE ENGINEER.

1.3 REGULATORY REQUIREMENTS

- A. ALL INSTALLATIONS AND EQUIPMENT SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE STATUTES, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION.

1.4 CUTTING AND PATCHING

- A. SUBMIT WRITTEN REQUEST IN ADVANCE OF CUTTING OR ALTERING ELEMENTS.
- B. EMPLOY SKILLED AND EXPERIENCED INSTALLER TO PERFORM CUTTING AND PATCHING WHICH EFFECT:
1. INTEGRITY OF WEATHER PROOFING MATERIALS.
2. EFFICIENCY, MAINTENANCE, OR SAFETY OF ELEMENT.
3. VISUAL QUALITIES OF SIGHT.
4. WORK OF OWNER OR SEPERATE CONTRACTOR.
- C. NO STRUCTURAL ELEMENTS TO BE CUT WITHOUT PRIOR APPROVAL OF THE ARCHITECT.

PART 2 PRODUCTS

2.1 PIPE HANGERS AND SUPPORTS

A. MANUFACTURERS:

1. B-LINE
2. OTHER ACCEPTABLE MANUFACTURERS OFFERING EQUIVALENT PRODUCTS.
- A) MICHIGAN HANGER.
- B) PHD.

2.2 HOT WATER WATER PIPING INSULATION

A. MANUFACTURERS:

1. OWENS-CORNING
2. JOHNS-MANVILLE
3. KNAUF
- B. ASTM C547, RIGID MOLDED NON-COMBUSTIBLE FIBERGLASS INSULATION. "K" VALUE .024 @ 75 DEGREES F.
- C. VAPOR BARRIER JACKET, KRAFT PAPER WITH GLASS FIBER YARN AND BONDED TO ALUMINUM FILM. CLOSURE SYSTEM SHALL BE UL 181.
- D. INSULATION THICKNESS 1".

2.3 SANITARY SEWER & VENT PIPING:

A. PVC: ASTM D2665 SCHEDULE 40 PVC PIPING.

1. FITTINGS: ASTM D2665 SCHEDULE 40 PVC DWV FITTINGS.
2. JOINTS: ASTM D2564 SOLVENT CEMENT. JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2855.

2.4 WATER PIPING, ABOVE GRADE:

A. COPPER PIPING: ASTM B88 TYPE 'L' HARD DRAWN.

1. FITTINGS: ASME 16.18 CAST BRONZE OR ASME B16.22 WROUGHT COPPER OR BRONZE.
2. JOINTS: ASTM B32 SOLDER, ASTM 95-5 TA MINIMUM, FLUX ASTM B813. JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM B828.

2.5 COMPRESSED AIR PIPING:

A. ATLAS COPCO AIRNET ALUMINUM PIPING

PART 3 INSTALLATION

A. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEREVER JOINTING DISSIMILAR METALS.

C. ROUTE PIPING IN ORDERLY MANNER AND MAINTAIN GRADIENT.

D. INSTALL PIPING TO CONSERVE BUILDING SPACE AND NOT INTERFERE WITH USE OF SPACE.

E. GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS.

F. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.

G. PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.

H. PROVIDE ACCESS WHERE VALVES AND FITTINGS ARE NOT EXPOSED. COORDINATE SIZE AND LOCATION OF ACCESS DOORS WITH APPROPRIATE ARCHITECTURAL SECTION.

I. ESTABLISH ELEVATIONS OF BURIED PIPING OUTSIDE THE BUILDING TO ENSURE PROPER SLOPE AND COVER.

J. ESTABLISH ELEVATIONS OF EXISTING BURIED PIPING FOR CONNECTION TO NEW WORK TO ENSURE PROPER SLOPE AND COVER.

K. WHERE PIPE SUPPORT MEMBERS ARE WELDED TO STRUCTURAL BUILDING FRAMING, SCRAPE, BRUSH CLEAN, AND APPLY ONE COAT OF ZINC RICH PRIMER TO WELDING.

L. EXTEND CLEANOUTS TO FINISHED FLOOR OR WALL SURFACE. LUBRICATE THREADED CLEANOUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL. ENSURE CLEARANCE AT CLEANOUT FOR RODDING OF DRAINAGE SYSTEM.

M. INSTALL WATER HAMMER SHOCK ARRESTORS AT EACH FIXTURE OR BATTERY OF FIXTURES WHERE REQUIRED. ARRESTORS SHALL BE FACTORY FABRICATED. INSTALL ARRESTORS AND SIZE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH-201. ACCEPTABLE MANUFACTURERS ZURN, JOSAM, SIOUX CHIEF, PPP INC. FOR 1-11 FU'S PROVIDE PDI-A, FOR 12-32 FU'S PDI-B, 33-60 FU'S PDI-C, 61-113 FU'S PDI-D.

SCHEDULES

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE TYPE	WASTE	WATER		VENT	DESCRIPTION
			COLD	HOT		
P-1	WATERCLOSET - ADA	4"	1 1/2"	-	2"	KOHLER MODEL K-96057 FLOOR MOUNT, TOP SPUD, ELONGATED, WHITEK-4650 LUSTRA ELONGATED OPEN-FRONT SEAT KOHLER MODEL K-76322-CP MANUAL TOILET FLUSHOMETER
P-2	NOT USED	--	--	--	--	--
P-3	NOT USED	--	--	--	--	--
P-4	NOT USED	--	--	--	--	--
P-5	DROP IN LAVATORY	2"	1/2"	1/2"	1-1/2"	REFER TO ARCHITECTURAL PLANS KOHLER K-11015-4 CENTERSET FAUCET - MATTE BLACK FINISH
P-6	MOP SINK	3"	1/2"	1/2"	1-1/2"	MOP SERVICE BASINS TSB 100 PROVIDE MOP HOLDER T&S BRASS B-0655-BSTP
P-7	NOT USED	--	--	--	--	--
P-8	SELF-RIMMING SS SINK	2"	1/2"	1/2"	1-1/2"	ELKAY LRAD-1517 STRAINER ELKAY LKAD-174 T&S BRASS B-0866-04
P-9	DRINKING FOUNTAIN	2"	1/2"	-	1-1/2"	ELKAY WALL MOUNT ELECTRIC WATER COOLER MODEL NO. EZH20 BOTTLE FILLING STATION WITH SINGLE ADA COOLER
P-10	FLOOR DRAIN	3"	-	-	1-1/2"	JR SMITH 2210 PROVIDE SQUARE TOP BRONZE COVER
P-11	HOSE BIB	-	1/2"	-	-	FROST PROOF WITH LOCK BOX JR SMITH 5509QT
FCO	FLOOR CLEAN OUT	-	-	-	-	ZURN Z1840-6B-NH
HYD	WALL HYDRANT	-	-	-	-	ZURN Z1840-6B-NH
WCO	WALL CLEAN OUT	-	-	-	-	ZURN Z1333-C
WHA	WATER HAMMER ARRESTOR	-	-	-	-	JAY R. SMITH MODEL 5010 HYDROTROL ENGINEERED WATER HAMMER ARRESTOR

NOTE : CONFIRM FLOOR CONSTRUCTION PRIOR TO ORDER TO PROVIDE ALL FLUSH WATERTIGHT FEATURES NEEDED.  
\*PROVIDE DEEP SEAL TRAP.

WATER HEATER SCHEDULE

MANUFACTURER / MODEL NUMBER	MARK	LOCATION	CAPACITY (GALLONS)	VOLTS/PHASE	KW	QUANTITY
AO SMITH / DRE-52	EWH-1	PLUMBING CLOSET 011	50	208/3	9	2

RECIRCULATION PUMP SCHEDULE

EQUIPMENT			PERFORMANCE		ELECTRICAL	
TAG	MANUFACTURER	MODEL	FLOW (GPM)	HEAD (FEET)	HP	ELECTRICAL V/PH/Hz
RP-1	GRUNDFOS	UP15-10SU7P TLC	0.5	2.5	1/25	120/1/60

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH 2023, 8TH EDITION FLORIDA BUILDING CODE, PLUMBING AND COUNTY OF FRANKLIN AMENDMENTS.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. ALL PLUMBING IN ATTIC SHALL BE WRAPPED IN HEAT TAPE.

WATER CALCULATIONS

FIXTURE CALCULATIONS

BUILDING FIXTURES	NO. OF FIXTURES	WATER		WASTE	
		F.U.	TOTAL	F.U.	TOTAL
WATER CLOSET (FLUSH TANK)	14	2	28	3	42
LAVATORY	14	0.5	7	1	14
FLOOR DRAIN	14	0	0	2	28
TRENCH DRAIN	14	0	0	2	28
HOSE BIB	14	1	14	0	0
TOTAL F.U.		49		112	
112 WASTE F.U.	1/8 SLOPE	=	4 INCH	BLDG. WASTE SIZE	
49 FLUSH TANK F.U.		=	29.1	GPM	
			1-1/2 INCH	BLDG. WATER SIZE	

PRESSURE CALCULATIONS

STATIC LOSS	=	10	FT.	X	.43	=	4.3	PSI
29.1 GPM THRU (1) 2 INCH						=	4.0	PSI
METER(S)								
BACKFLOW PREVENTER						=	10	PSI
PRESSURE REQUIRED AT FIXTURE						=	15.00	PSI
TOTAL PRESSURE LOSS						=	33.30	PSI
BUILDING PRESSURE						=	45.00	PSI
PRESSURE LOSS						=	33.30	PSI
PRESSURE AVAILABLE FOR PIPING LOSS						=	11.70	FT.
PIPING LENGTH TAP TO METER						=	61.00	FT.
PIPING LENGTH METER TO FURTHEST FIXTURE						=	350.00	FT.
ALLOWANCE FOR FITTINGS AT 0.2						=	64	FT.
TOTAL LENGTH							475	FT.

11.7 PSI X 100 = (1170) / 475 = 2.46 PSI LOSS AVAIL / 100 FT.

LEGENDS

	SOIL OR WASTE
	VENT
	COLD WATER
	HOT WATER
	HOT WATER
	BALL VALVE
	POINT OF CONNECTION
	VENT THROUGH ROOF
	FLOOR CLEANOUT
	FLOOR DRAIN
	HOSE BIBB

NOTE:

THESE ARE STANDARD SYMBOLS AND MAY NOT ALWAYS APPEAR ON THE DRAWINGS, HOWEVER, WHERE THE SYMBOL DOES APPEAR, THE ITEM SHALL BE PROVIDED.

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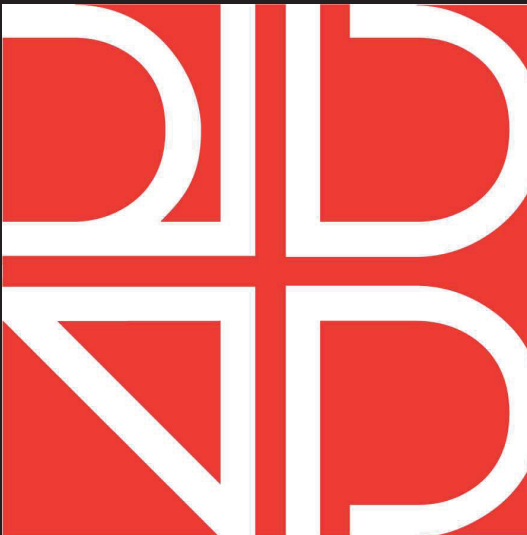


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PLUMBING GENERAL NOTES, LEGEND, AND ABBREVIATIONS

REVISIONS

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# PLUMBING SPECIFICATIONS

<p>THE GENERAL PLUMBING SPECIFICATIONS APPLY TO THE WORK SPECIFIED IN THIS SECTION. THE CONTRACTOR SHALL PROVIDE QUALIFIED SUPERVISION, SKILLED LABOR, QUALITY MATERIAL, MACHINERY, PLANT, AND ANY OTHER ITEMS NECESSARY FOR THE COMPLETE AND PROPERLY FUNCTIONING PLUMBING SYSTEM. INCLUDED SHALL BE THE FABRICATION, INSTALLATION, AND/OR RENOVATION OF PLUMBING SYSTEMS INCLUDING WATER HEATING, VENTILATING, STORM WATER DRAINAGE, SEWER WATER DRAINAGE AND MISCELLANEOUS SYSTEMS AS INDICATED IN DESIGN DRAWINGS AND AS OUTLINED IN THESE SPECIFICATIONS AND THE APPLICABLE CODES/STANDARDS. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND PAY ALL FEES.</p> <p>PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED PROJECT AND EXAMINE ALL SECTIONS OF THE SPECIFICATIONS AND THE COMPLETE SET OF CONTRACT DRAWINGS INCLUDING THE ARCHITECTURAL, CIVIL, STRUCTURAL, AND FIRE PROTECTION DRAWINGS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR OMISSIONS, CONFLICTS, OR CONCERNS EFFECTING THIS DIVISION OF THE WORK. INSTALL AND CONNECT PER THE REGULATIONS OF THE LOCAL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING APPLICABLE CODES/STANDARDS:</p> <ul style="list-style-type: none"><li>- 2023 FBC - BUILDING, 8<sup>TH</sup> EDITION (IBC 2021 AMENDED)</li><li>- 2023 FBC - EXISTING BUILDING, 8<sup>TH</sup> EDITION (IEBC 2021 AMENDED)</li><li>- 2023 2023 FBC - MECHANICAL, 8<sup>TH</sup> EDITION (IMC 2021 AMENDED)</li><li>- 2023 2023 FBC - PLUMBING, 8<sup>TH</sup> EDITION (IPC 2021 AMENDED)</li><li>- 2023 2023 FBC - ENERGY CONSERVATION, 8<sup>TH</sup> EDITION (IECC 2021 AMENDED)</li><li>- 2020 FLORIDA ELECTRICAL CODE (NFPA 70, 2020 NOT AMENDED)</li><li>- SMACNA DUCT CONSTRUCTION STANDARDS</li><li>- ASHRAE</li></ul> <p><u>COORDINATION:</u></p> <p>MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL CONTRACTORS SHALL COORDINATE WORK WITH ALL TRADES TO AVOID INTERFERENCE AND ESTABLISH NECESSARY SPACE REQUIREMENTS AND TIE-INS FOR EACH TRADE. WHERE AREAS ARE CONGESTED, THE MECHANICAL CONTRACTOR, IN A COORDINATED EFFORT WITH ALL TRADES, SHALL SUBMIT COORDINATED DRAWINGS OF THE AREA.</p> <p><u>SCOPE OF WORK:</u></p> <p>THE WORK SHALL INCLUDE THE PROVISIONS OF SYSTEMS, EQUIPMENT AND MATERIALS SPECIFIED IN THIS DIVISION AND AS CALLED FOR ON THE DRAWINGS. WORK SHALL ALSO INCLUDE SUPERVISION, OPERATION, METHODS AND LABOR FOR THE FABRICATION, START-UP AND TESTS FOR A COMPLETE OPERATIONAL PLUMBING INSTALLATION.</p> <p>DRAWINGS FOR THE WORK ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO CONVEY THE SCOPE OF THE INSTALLATION AND TO INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK BECAUSE OF THE SCALE OF THE DRAWINGS. CERTAIN BASIC ITEMS SUCH AS PIPE FITTINGS, ACCESS PANELS, AND SLEEVES MAY NOT BE SHOWN. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE EQUIPMENT TO FIT THE SPACE PROVIDED, THE LOCATION AND SIZES FOR PIPE FITTINGS, SLEEVES, INSERTS, FIRE AND/OR SMOKE DAMPERS, AND OTHER BASIC ITEMS REQUIRED BY CODE AND OTHER SECTIONS SHALL BE COORDINATED AND INCLUDED FOR THE PROPER INSTALLATION OF THE WORK.</p> <p><u>EQUIPMENT:</u></p> <p>EQUIPMENT SPECIFICATIONS MAY NOT DEAL INDIVIDUALLY WITH MINUTE ITEMS REQUIRED SUCH AS COMPONENTS, PARTS, CONTROLS AND DEVICES WHICH MAY BE REQUIRED TO PRODUCE THE EQUIPMENT PERFORMANCE SPECIFIED OR AS REQUIRED TO MEET THE EQUIPMENT WARRANTIES. WHERE SUCH ITEMS ARE REQUIRED, THEY SHALL BE INCLUDED BY THE INSTALLER OF THE EQUIPMENT, WHETHER OR NOT SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS WITH NO ADDITIONAL COST INCURRED.</p> <p>WHERE NOTED ON THE DRAWINGS OR INDICATED IN OTHER SECTIONS OF THE SPECIFICATION, THE CONTRACTOR FOR THIS DIVISION SHALL INSTALL PLUMBING EQUIPMENT FURNISHED BY OTHERS, AND SHALL MAKE ALL FINAL CONNECTIONS. CONTRACTOR SHALL INSTALL EQUIPMENT AND SYSTEMS IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.</p> <p>CONTRACTOR SHALL VERIFY ALL EQUIPMENT CONNECTION SIZES PRIOR TO INSTALLATION OF ANY SYSTEMS. THIS CONTRACTOR SHALL ADJUST PIPING SYSTEM SIZES AS REQUIRED TO MATCH EQUIPMENT CONNECTIONS, UTILIZE REDUCERS WHERE EQUIPMENT CONNECTIONS ARE SMALLER THAN PIPE SIZES INDICATED ON PLANS, NO PIPING SHALL BE DECREASED IN SIZE (IN THE DIRECTION OF FLOW).</p> <p><u>MOTORS:</u></p> <p>COMPLY WITH IEEE 841 FOR SEVERE-DUTY MOTORS.COMPLY WITH NEMA MG 1 UNLESS OTHERWISE INDICATED.</p> <p>COORDINATE FEATURES OF MOTORS, INSTALLED UNITS, AND ACCESSORY DEVICES TO BE COMPATIBLE WITH THE FOLLOWING MOTOR CONTROLLERS RATINGS AND CHARACTERISTICS OF SUPPLY CIRCUIT AND REQUIRED CONTROL SEQUENCE FOR TORQUE, SPEED, AND HORSEPOWER REQUIREMENTS OF THE LOAD AT AMBIENT AND ENVIRONMENTAL CONDITIONS OF INSTALLATION LOCATION.</p> <p><u>MATERIALS</u></p> <p><u>WATER PIPING</u></p> <p>PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY. POTABLE-WATER PIPING AND COMPONENTS SHALL COMPLY WITH NSF 14, NSF 61, AND NSF 372</p> <p>ALL ABOVE GROUND DOMESTIC COLD AND HOT WATER PIPING SHALL BE RIGID COPPER PIPING: ASTM B88 TYPE 1, HARD DRAWN, FITTINGS: ASTM B152 WROUGHT OR ASME B16.22 WROUGHT COPPER OR BRONZE. JOINTS: ASTM B32 SOLDER, ASTM 95-5 TA MINIMUM, FLUX ASTM B813. JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM B828.</p> <p>ALL UNDERGROUND DOMESTIC COLD AND HOT WATER PIPING SHALL BE RIGID COPPER TUBING ACCORDING TO CDA's "COPPER TUBE HANDBOOK"</p> <p>PIPE: TYPE K COPPER TUBE, ANNEALED TEMPER, ASTM B88/B280-16</p> <p>FITTINGS: WROUGHT COPPER, ASME B16.22</p> <p>JOINTS: BRAZED JOINTS, ASME B16.22, PIPE FLOODED WITH NITROGEN DURING BRAZING CONFORMING TO NFPA 99</p> <p><u>PIPE HANGERS AND SUPPORTS</u></p> <p>MANUFACTURERS SHALL BE ONE OF THE FOLLOWING, B+LINE, MICHIGAN HANGER, AND PHD.</p> <p><u>HOT WATER WATER PIPING INSULATION:</u></p> <p>MANUFACTURERS SHALL BE ONE OF THE FOLLOWING, OWENS-CORNING, JOHNS-MANVILLE, OR KNAUF. INSULATION SHALL BE THICKNESS 1", ASTM C547, RIGID MOLDED NON-COMBUSTIBLE FIBERGLASS INSULATION, "K" VALUE .024 @ 75 DEGREES F, VAPOR BARRIER JACKET, KRAFT PAPER WITH GLASS FIBER YARN AND BONDED TO ALUMINUM FILM. CLOSURE SYSTEM SHALL BE UL 181.</p> <p><u>STORM, SANITARY, SEWER &amp; VENT PIPING:</u></p> <p>PVC: ASTM D2665 SCHEDULE 40 PVC PIPING AND FITTINGS. JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2855 USING ASTM D2664 SOLVENT CEMENT, SOLID-WALL PVC PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS IN NON-RETURN AIR PLENUM LOCATIONS ONLY. VERIFY ALL LOCATIONS PRIOR TO PURCHASE OF PIPE. PVPC IN PLENUM RATED AREAS.</p> <p><u>COMPRESSED AIR PIPING:</u></p> <p>ATLAS COPCO AIRNET ALUMINUM PIPING</p> <p><u>SUBSTITUTIONS:</u></p> <p>EXCEPT AS PROVIDED BELOW, EACH BIDDER REPRESENTS THAT HIS BID IS BASED UPON THE MATERIALS AND EQUIPMENT DESCRIBED IN THE BIDDING DOCUMENTS.</p> <p>NO SUBSTITUTIONS FOR OTHER MATERIALS AND EQUIPMENT WILL BE CONSIDERED UNLESS WRITTEN REQUEST HAS BEEN SUBMITTED TO THE ENGINEER FOR APPROVAL, AT LEAST TEN (10) DAYS PRIOR TO THE DATE FOR RECEIPT OF BIDS. EACH SUCH REQUEST SHALL INCLUDE A COMPLETE DESCRIPTION OF THE PROPOSED SUBSTITUTE, THE NAME OF THE MATERIAL, OR EQUIPMENT FOR WHICH IT IS TO BE SUBSTITUTED, DRAWINGS, COST, PERFORMANCE AND TEST DATA OR INFORMATION NECESSARY FOR A COMPLETE EVALUATION.</p> <p>IF THE ENGINEER APPROVES ANY PROPOSED SUBSTITUTION, SUCH APPROVAL WILL BE ISSUED AS AN ADDENDUM FORWARDED TO ALL PARTICIPATING BIDDERS.</p> <p>IF ANY BIDDER IS UNABLE TO PROCURE WRITTEN APPROVAL OF ANY SUBSTITUTION FROM THE ENGINEER PRIOR TO THE OPENING OF BIDS, THEN HE SHALL BESS HIS BID ON ITEMS AND SYSTEMS AS SPECIFIED IN BID DOCUMENTS.</p> <p>SUBSTITUTIONS REQUESTED ON THE BID PROPOSAL FORM WHICH ARE PRIOR APPROVED BY THE ENGINEER WILL BE INCORPORATED INTO THE CONTRACT WITH THE SUCCESSFUL BIDDER.</p> <p>REQUESTS FOR ANY SUBSTITUTIONS NOT SUBMITTED AND APPROVED IN ACCORDANCE WITH THE ABOVE INSTRUCTIONS WILL BE DENIED BY THE ENGINEER.</p>	<p><u>DOMESTIC WATER PIPING</u></p> <p>COMPLY WITH REQUIREMENTS IN THE PIPING SCHEDULE ON THE DRAWINGS FOR APPLICATIONS OF PIPE, TUBE, FITTING, WELDED JOINTS, AND ACCESSORIES. SERVICE LOCATIONS, AND PIPE SIZES. PROVIDE COMPONENTS AND INSTALLATION CAPABLE OF PRODUCING DOMESTIC WATER PIPING SYSTEMS WITH 80 PSIG, UNLESS OTHERWISE INDICATED.</p> <p><u>ALTERNATE PRICING:</u></p> <p>PROVIDE AN ALTERNATE PRICE TO USE PEX DISTRIBUTION SYSTEM ABOVE GROUND: ASTM F 877, 879 TUBING, FITTINGS FOR PEX TUBE: ASTM F 1807, METAL-INSERT TYPE WITH COPPER OR STAINLESS-STEEL CRIMP RINGS AND MATCHING PEX TUBE DIMENSIONS.</p> <p>MANIFOLD: MULTIPLE-OUTLET, PLASTIC OR CORROSION-RESISTANT-METAL ASSEMBLY COMPLYING WITH ASTM F 877; WITH PLASTIC OR CORROSION-RESISTANT METAL VALVE FOR EACH OUTLET.</p> <p>CPVC PIPE: ASTM F 441/F 441M, SCHEDULE 40 AND SCHEDULE 80.</p> <p><u>METERS</u></p> <p>WATER METERS WILL BE FURNISHED AND INSTALLED BY UTILITY COMPANY. INSTALL EXPANSION JOINTS OF SIZES MATCHING SIZES OF PIPING IN WHICH THEY ARE INSTALLED. INSTALL RUBBER PACKLESS EXPANSION JOINTS ACCORDING TO FSA-PSJ-703. INSTALL SLEEVES FOR PIPING PASSING THROUGH PENETRATIONS IN FLOORS, PARTITIONS, ROOFS, AND WALLS. INSTALL METERS AND GAGES ADJACENT TO MACHINES AND EQUIPMENT TO ALLOW SERVICE AND MAINTENANCE OF METERS, GAGES, MACHINES, AND EQUIPMENT. SCALE RANGE FOR DOMESTIC WATER PIPING: 30 TO 240 DEG .</p> <p><u>PIPING INSTALLATION</u></p> <p>PIPE LABEL CONTENTS: INCLUDE IDENTIFICATION OF PIPING SERVICE USING SAME DESIGNATIONS OR ABBREVIATIONS AS USED ON DRAWINGS, ALSO INCLUDE PIPE SIZE AND AN ARROW INDICATING FLOW DIRECTION, FLOW-DIRECTION ARROWS. INTEGRAL WITH PIPING-SYSTEM SERVICE LETTERING TO ACCOMMODATE BOTH DIRECTIONS OR AS SEPARATE UNIT ON EACH PIPE LABEL TO INDICATE FLOW DIRECTION. SIZE LETTERS ACCORDING TO ASME A13.1 FOR PIPING.</p> <ol style="list-style-type: none"><li>1. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS.</li><li>2. PROVIDE NON-ORIG CONNECTIONS WHEREVER JOINING DISSIMILAR METALS.</li><li>3. ROUTE PIPING IN ORDERLY MANNER AND MAINTAIN GRADE/IN.</li><li>4. INSTALL PIPING TO CONSERVE BUILDING SPACE AND NOT INTERFERE WITH USE OF SPACE.</li><li>5. GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS.</li><li>6. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.</li><li>7. PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.</li><li>8. PROVIDE ACCESS WHERE VALVES AND FITTINGS ARE NOT EXPOSED. COORDINATE SIZE AND LOCATION OF ACCESS DOORS WITH APPROPRIATE ARCHITECTURAL SECTION.</li><li>9. ESTABLISH ELEVATIONS OF BURIED PIPING OUTSIDE THE BUILDING TO ENSURE PROPER SLOPE AND COVER.</li><li>10. ESTABLISH ELEVATIONS OF EXISTING BURIED PIPING FOR CONNECTION TO NEW WORK TO ENSURE PROPER SLOPE AND COVER.</li><li>11. WHERE PIPE SUPPORT MEMBERS ARE WELDED TO STRUCTURAL BUILDING FRAMING, SCRAPE, BRUSH CLEAN, AND APPLY ONE COAT OF 2NC RICH PRIMER TO WELDING.</li><li>12. EXTEND CLEANOUTS TO FINISHED FLOOR OR WALL SURFACE. LUBRICATE THREADED CLEANOUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL. ENSURE CLEARANCE AT CLEANOUT FOR RODDING OF DRAINAGE SYSTEM.</li><li>13. INSTALL WATER HAMMER SHOCK ARRESTORS AT EACH FIXTURE OR BATTERY OF FIXTURES WHERE REQUIRED. ARRESTORS SHALL BE FACTORY APPROVED. INSTALL ARRESTORS AND SIZE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH-201. ACCEPTABLE MANUFACTURERS: ZURN, JOSAM, SIOUX CHIEF, PIP INC. FOR 1-1/1 FUS PROVIDE PDIA, FOR 12-32 FUS PDIB, 33-60 FUS PDI-C, 61-113 FUS PDI-D.</li></ol> <p><u>VALVE SCHEDULE</u></p> <p>DRAWINGS INDICATE VALVE TYPES TO BE USED. WHERE SPECIFIC VALVE TYPES ARE NOT INDICATED, THE FOLLOWING REQUIREMENTS APPLY:</p> <ol style="list-style-type: none"><li>1. SHUTOFF DUTY: USE BALL OR GATE VALVES FOR PIPING NPS 2 (DN 50) AND SMALLER. USE BUTTERFLY, BALL, OR GATE VALVES WITH FLANGED OR GROOVED ENDS FOR PIPING NPS 2-1/2 (DN 65) AND LARGER.</li><li>2. THROTTLING DUTY: USE BALL OR GLOBE VALVES FOR PIPING NPS 2 (DN 50) AND SMALLER. USE BUTTERFLY OR BALL VALVES WITH FLANGED OR GROOVED ENDS FOR PIPING NPS 2-1/2 (DN 65) AND LARGER.</li><li>3. HOT-WATER CIRCULATION PIPING, BALANCING DUTY: CALIBRATED MANUAL OR AUTOMATIC BALANCING VALVES OR CIRCUITSOLVER.</li><li>4. DRAIN DUTY: HOSE-END DRAIN VALVES.</li><li>5. USE CHECK VALVES TO MAINTAIN CORRECT DIRECTION OF DOMESTIC WATER FLOW TO AND FROM EQUIPMENT.</li><li>6. DUCTILE-IRON, STAINLESS STEEL, AND CAST BRASS GROOVED-END VALVES MAY BE USED WITH GROOVED-END PIPING SYSTEMS OF STEEL, STAINLESS STEEL, COPPER AND CPVC.</li><li>7. CPVC VALVES MATCHING PIPING MATERIALS MAY BE USED.</li><li>8. INSTALL VALVE TAGS, STAMPED OR ENGRAVED WITH 1/4-INCH LETTERS FOR PIPING SYSTEM ABBREVIATION AND 1/2-INCH NUMBERS.</li></ol> <p><u>METAL PIPE-HANGER INSTALLATION:</u></p> <p>COMPLY WITH MSS SP-58. INSTALL HANGERS, SUPPORTS, CLAMPS, AND ATTACHMENTS AS REQUIRED TO PROPERLY SUPPORT PIPING FROM BUILDING STRUCTURE. LOAD DISTRIBUTION: INSTALL HANGERS AND SUPPORTS, SO THAT PIPING LIVE AND DEAD LOADS AND STRESSES FROM MOVEMENT WILL NOT BE TRANSMITTED TO CONNECTED EQUIPMENT. INSTALL HANGERS AND SUPPORTS TO PROVIDE INDICATED PIPE SLOPES AND TO NOT EXCEED MAXIMUM PIPE DEFLECTIONS ALLOWED BY ASME B31.9 FOR BUILDING SERVICES PIPING.</p> <p><u>HEAT TRACING FOR PLUMBING PIPING:</u></p> <p>PLUMBING PIPING HEAT TRACING FOR FREEZE PREVENTION WITH SELF-REGULATING, PARALLEL RESISTANCE ELECTRIC HEATING CABLES.</p> <ol style="list-style-type: none"><li>1. HEATING ELEMENT: PAIR OF PARALLEL STRANDED COPPER BUS WIRING EMBEDDED IN CROSSLINKED CONDUCTIVE POLYMER CORE, WHICH VARIES HEAT OUTPUT IN RESPONSE TO TEMPERATURE ALONG ITS LENGTH. TERMINATE WITH WATERPROOF, FACTORY-APPROVED, NON-LEAKING CONNECTIONS AT ONE END, AND SEAL THE OPPOSITE END WATERTIGHT. CABLE SHALL BE CAPABLE OF CROSSING OVER ITSELF ONCE WITHOUT OVERHEATING.</li><li>2. ELECTRICAL INSULATING JACKET: FLAME-RETARDANT POLYOLEFIN.</li><li>3. CABLE COVER: STAINLESS-STEEL BRAID AND POLYOLEFIN OUTER JACKET WITH ULTRAVIOLET INHIBITOR.</li></ol> <p>MAXIMUM OPERATING TEMPERATURE (POWER ON): 150 DEG F65 DEG OVER/RY TEMPERATURE OF CIRCULATED MEDIA IN FREEZE-PROTECTED PIPING IN "MAXIMUM EXPOSURE TEMPERATURE (POWER OFF)" PARAGRAPH BELOW.</p> <p>MAXIMUM EXPOSURE TEMPERATURE (POWER OFF): 185 DEG F65 DEG C</p> <p><u>PIPE INSULATION</u></p> <p>DESIGNATED TYPE 1 IN THE INSULATION SCHEDULE IN THE PROJECT DRAWINGS SHALL BE FLAT, CURVED OR GROOVED-BLOCK SECTIONS OF NONCOMBUSTIBLE, INORGANIC, HYDROUS CALCIUM SILICATE WITH A NON-ASBESTOS FIBROUS REINFORCEMENT, MUST COMPLY WITH ASTM C533.</p> <ol style="list-style-type: none"><li>1. THERMAL CONDUCTIVITY SHALL BE LESS THAN 0.41 BTU-IN/HR-FT2-OF AT 200 DEGREE F MEAN TEMPERATURE.</li><li>2. DENSITY OF: 14-16 LB/CU-FT</li><li>3. COMPRESSIVE STRENGTH OF 100-120 LB/SQ-IN.</li><li>4. OPERATING TEMPERATURES: UP TO 1200 DEGREE F.</li><li>5. ALL VALVES AND FITTINGS, EXCEPT UNIONS, SHALL BE INSULATED WITH MITERED SECTIONS OF THE PIPE INSULATION. BUTTERING VALVES AND FITTINGS WITH INSULATING CEMENT IS NOT ACCEPTABLE.</li></ol> <p>DESIGNATED TYPE 2 IN THE INSULATION SCHEDULE OR IN THE PROJECT DRAWINGS SHALL BE CLOSED CELL RUBBER INSULATION, MUST COMPLY WITH ASTM C534, TYPE I FOR TUBULAR MATERIALS AND TYPE II FOR SHEET MATERIALS. MANUFACTURERS ARE SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: THERMAL AEROFLEX USA INC, AEROCOL AC TUBE AND SHEET, ARMACELT, LLC, AP ARMAFLEX TUBES; AP ARMAFLEX SHEET &amp; ROLLS.</p> <ol style="list-style-type: none"><li>1. CONDUCTIVITY SHALL BE NO GREATER THAN 0.27 BTU-IN/HR-FT2-OF AT 75 DEGREE F MEAN TEMPERATURE.</li><li>2. OPERATING TEMPERATURE: -70 TO 220 DEGREE F.</li><li>3. ALL VALVES AND FITTINGS EXCEPT UNIONS SHALL BE INSULATED WITH MITERED SECTIONS OF PIPE INSULATION.</li><li>4. TRI-CLAMP VALVES AND FERRULES SHALL NOT BE INSULATED.</li></ol> <p><u>CLOSEOUT SUBMITTALS</u></p> <p>A TEST DOMESTIC WATER PIPING AS FOLLOWS:</p> <ol style="list-style-type: none"><li>1. FILL DOMESTIC WATER PIPING. CHECK COMPONENTS TO DETERMINE THAT THEY ARE NOT AIR BOUND AND THAT PIPING IS FULL OF WATER.</li><li>2. TEST FOR LEAKS AND DEFECTS IN NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED. IF TESTING IS PERFORMED IN SEGMENTS, SUBMIT SEPARATE REPORT FOR EACH TEST, COMPLETE WITH DIAGRAM OF PORTION OF PIPING TESTED.</li><li>3. LEAVE NEW, ALTERED, EXTENDED, OR REPLACED DOMESTIC WATER PIPING UNCOVERED AND UNCONCEALED UNTIL IT HAS BEEN TESTED AND APPROVED. EXPOSE WORK THAT WAS COVERED OR CONCEALED BEFORE IT WAS TESTED.</li><li>4. CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 50 PSIG ABOVE OPERATING PRESSURE, WITHOUT EXCEEDING PRESSURE RATINGS OF PIPING SYSTEM MATERIALS. ISOLATE TEST SOURCE AND ALLOW TO STAND FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.</li><li>5. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING OR PORTION THEREOF UNTIL SATISFACTORY RESULTS ARE OBTAINED.</li><li>6. PREPARE REPORTS FOR TESTS AND REQUIRED CORRECTIVE ACTION.</li><li>7. ADJUSTING</li><li>8. PERFORM THE FOLLOWING ADJUSTMENTS BEFORE OPERATION:<ol style="list-style-type: none"><li>1. CLOSE DRAIN VALVES, HYDRANTS, AND HOSE BIBBS.</li><li>2. OPEN SHUTOFF VALVES TO FULLY OPEN POSITION.</li><li>3. OPEN THROTTLING VALVES TO PROPER SETTING.</li></ol></li></ol> <p>ADJUST BALANCING VALVES IN HOT-WATER-CIRCULATION RETURN PIPING TO PROVIDE ADEQUATE</p>	<p><u>WATER HEATER INSTALLATION</u></p> <p>INSTALL WATER HEATERS LEVEL AND PLUMB, ACCORDING TO LAYOUT DRAWINGS, ORIGINAL DESIGN, AND REFERENCED STANDARDS. MAINTAIN MANUFACTURERS' RECOMMENDED CLEARANCES. ARRANGE UNITS SO CONTROLS AND DEVICES NEEDING SERVICE ARE ACCESSIBLE. INSTALL WATER-HEATER DRAIN PIPING AS INDIRECT WASTE TO PAIL BY POSITIVE AIR GAP INTO OPEN DRAINS OR OVER FLOOR DRAINS.</p> <p>PRESSURE RELIEF VALVES: ASME RATED AND STAMPED AND COMPLYING WITH ASME PTC 25.3. INCLUDE PRESSURE SETTING LESS THAN WATER HEATER WORKING-PRESSURE RATING.</p> <p>WATER HEATER STAND AND DRAIN-PAN UNITS: HIGH-DENSITY POLYETHYLENE-PLASTIC, 18-INCH, HIGH, ENCLOSED-BASE STAND COMPLYING WITH IAPMO PS 103 AND ISO NO. 2. INCLUDE INTEGRAL OR SEPARATE DRAIN PAN WITH RAISED EDGE AND NPS 1 DRAIN OUTLET WITH ASME B1.20.1 PIPE THREAD.</p> <p>WATER HEATER MOUNTING BRACKETS: WATER HEATER MANUFACTURER'S FACTORY-FABRICATED STEEL BRACKET FOR WALL MOUNTING AND CAPABLE OF SUPPORTING WATER HEATER AND WATER.</p> <p>WATER REGULATORS: ASSE 1003, WATER-PRESSURE REDUCING VALVE. SET AT 25-PSIG- MAXIMUM OUTLET PRESSURES, UNLESS OTHERWISE INDICATED.</p> <p>SHOCK ABSORBERS: ASSE 1010 OR PDI WH 201, SIZE A WATER HAMMER ARRESTER.</p> <p>FILL WATER HEATERS WITH WATER AND CHARGE COMPRESSION TANKS WITH AIR.</p> <p>GAS WATER HEATERS SHALL COMPLY WITH ANSI Z21.10.3CSA 4.3.</p> <ol style="list-style-type: none"><li>1. GAS PRESSURE REGULATORS: ANSI Z21.18, APPLIANCE TYPE. INCLUDE PRESSURE RATING, CAPACITY, AND PRESSURE DIFFERENTIAL REQUIRED BETWEEN GAS SUPPLY AND WATER HEATER.</li><li>2. INSTALL GAS SHUTOFF VALVES ON GAS SUPPLIES TO GAS WATER HEATERS WITHOUT SHUTOFF VALVES.</li></ol> <p>ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNERS MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN COMMON WATER HEATERS.</p> <p><u>DOMESTIC WATER BOOSTER PUMP</u></p> <p>IF INCLUDED IN THE DRAWING SCHEDULES, PROVIDE A UNITARY PRE-PACKAGED DOMESTIC WATER PRESSURE BOOSTER PUMPING SYSTEM PER ENGINEERING DATA FLOW, AND HEAD REQUIREMENTS. THEY ENTIRE SYSTEM SHALL BE LISTED UNDER UL 2011 65 YF, "PACKAGED PUMPING SYSTEM" REQUIREMENTS. SYSTEM DESIGN IN BASED ON DELTA P SYSTEMS, INC.</p> <p>PUMPS SHALL BE, CAST IRON, VERTICALLY MOUNTED, COUPE COUPLED, BRONZE FITTED, END SUCTON, CENTRIFUGAL, PUMPS WITH CARBON/CERAMIC MECHANICAL SEALS, MANUFACTURERS SHALL BE ONE OF THE FOLLOWING, DELTA P SYSTEMS, INC., AURORA/PENTAIR PUMP GROUP, ITTBELL &amp; GOSSETT, DIV., GRUNDFOS PUMPS, INC., VICKERY SYSTEMS, INC.</p> <p>MOTORS SHALL BE: 3450 RPM, HIGH EFFICIENCY, CLASS F INSULATED, ELECTRIC MOTORS DESIGNED FOR INVERTER DUTY APPLICATION. THE MOTORS SHALL BE SUITABLE FOR THE VOLTAGE, FREQUENCY, PHASING AND ENCLOSURE AS INDICATED IN THE PUMP SCHEDULE OR ON THE PROJECT PLAN SET. PUMPS AND MOTORS, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.</p> <p>STRUCTURAL ELEMENTS: THE ENTIRE SYSTEM SHALL BE FACTORY SHIP MOUNTED ON A MINIMUM, 304 STAINLESS-STEEL STRUCTURAL SQUARE TUBE SUPPORT FRAME, WITH IN-SHEAR MOLDED RUBBER VIBRATION ISOLATORS.</p> <p>VALVES:</p> <p>ALL VALVES SHALL BE FULL PORT BRONZE BALL VALVES, WITH S.S. BALL AND STEM DESIGN FOR VALVE SIZES 2 1/2" AND SMALLER, AND CAST IRON, EPOXY COATED LEVER OPERATED, GROOVED END TYPE BUTTERFLY VALVES, WITH STAINLESS STEEL DISC, AND STAINLESS STEEL SHAFT, FOR VALVE SIZES 3" AND LARGER. VALVES MUST BE RATED FOR MAXIMUM PRESSURE SERVICE FOR THE SYSTEM.</p> <p>CONTROL PANEL: THE PUMPING SYSTEM CONTROL PANEL SHALL INCORPORATE THE FOLLOWING ELEMENTS, AND CRITERIA. THE PUMP CONTROLLER, AND ALL ITS COMPONENTS SHALL BE HOUSED IN A NEMA 1, UL LISTED, VENTILATED, CONTROL ENCLOSURE. THE CONTROLLER SHALL HAVE A MAIN POWER DISCONNECT SWITCH, WITH ENCLOSURE DOOR INTERLOCK, WHICH SHALL REQUIRE OPENING THE DISCONNECT SWITCH BEFORE THE CONTROL CABINET MAY BE OPENED. THE SYSTEM SHALL PROVIDE FOR A SINGLE POINT ELECTRICAL CONNECTION, WITH ALL POWER, BOTH PRIMARY, AND SECONDARY TO BE DE-ACTIVATED WITH OPENING THE MAIN DISCONNECT SWITCH.</p> <p>THE ENTIRE CONTROLLER SHALL BE UL 508A LISTED, INDUSTRIAL CONTROL PANELS, AND HAVE ALL UL LISTED DEVICES OF TOUCH SAFE DESIGN, WHICH SHALL ELIMINATE ANY BARE HANDED SHOCK HAZARD. ALL PRIMARY, AND SECONDARY POWER FUSE HOLDERS SHALL BE SHROUDED, MODULAR, TOUCH SAFE DESIGN FOR SAFE REMOVAL, WITHOUT THE USE OF TOOLS. ALL SECONDARY CONTROL CIRCUIT WIRING SHALL BE 24 VOLTS, ACIDIC, OR LESS, TO INCLUDE ALL PILOT LIGHTS, SELECTOR SWITCHES, PANEL METERS, AND ALARM DEVICES. THE PRIMARY MOTOR BRANCH CIRCUITS SHALL HAVE THERMAL, MAGNETIC CIRCUIT BREAKER PROTECTION, (PRIMARY FUSES SHALL NOT BE ACCEPTABLE). THERE SHALL BE NOT PART OF THE INTERIOR OF THE CONTROL ENCLOSURE, WHICH SHALL PRODUCE A BARE HANDED SHOCK HAZARD EVEN WITH THE CONTROLLER POWERED UP. THERE SHALL BE NO EXCEPTIONS TO THIS REQUIREMENT.</p> <p>THE CONTROLLER SHALL UTILIZE A PROGRAMMABLE 24 VOLT EEPROM CONTROL MODULE, WITH REMOVABLE MEMORY CARD, WHICH SHALL PROVIDE ALL PUMP STAGING, AND TIMING FUNCTIONS. LOW SUCTION AND HIGH SYSTEM ALARM CONDITIONS SHALL HAVE AUDIBLE AND VISUAL INDICATORS, WITH TIMED DELAYED PROOF OF CONDITION AUTOMATIC RESET. THE EEPROM MODULE SHALL PROVIDE FOR AUTOMATIC ALTERNATION BETWEEN EQUAL PUMPS. PRESSURE-BASED PUMP SEQUENCING IS UNACCEPTABLE SINCE A CHANGE IN SUCTION PRESSURE CAN SKEW THE SEQUENCING POINT. PUMP SEQUENCING MUST BE ACCOMPLISHED THROUGH ELECTRONIC MEANS EITHER BY MEASURING KW, AMPERAGE OR FREQUENCY AS A REFERENCE TO PUMP FLOW. A SPARE EEPROM CONTROL CARD SHALL BE PROVIDED WITH CONTROL, SEQUENCE PRE-PROGRAMMED, AND TURNED OVER TO THE OWNER. THERE SHALL BE NO FAILURE OF ANY ONE SYSTEM COMPONENT WHICH WILL RENDER THE SYSTEM INCAPABLE OF MAINTAINING SYSTEM FLOW TO THE BUILDING. ALL CONTROLS MUST BE 100% FAIL-SAFE INCLUDING FAILURE OF THE PLC.</p> <p>THE CONTROLLER PANEL SHALL HAVE THE FOLLOWING FEATURES:</p> <ol style="list-style-type: none"><li>A. PROVIDE THREE PHASE LIGHTNING PROTECTION FOR ENTIRE CONTROL PANEL.</li><li>B. MAIN POWER UN-FUSED, DOOR INTERLOCKED DISCONNECT SWITCH.</li><li>C. INDIVIDUAL, GLYCERIN FILLED, PANEL MOUNTED, STAINLESS STEEL SUCTION AND SYSTEM PRESSURE GAUGES.</li><li>D. ILLUMINATED, CONTROL POWER OFF/ON SWITCH.</li><li>E. 5" LCD, 256 COLOR TOUCH SCREEN WITH BACKLIT DISPLAY.</li><li>F. LOW SUCTION CONDITION, AND HIGH SYSTEM PRESSURE ALARMS, BOTH AUDIBLE, AND VISUAL.</li><li>G. AUTOMATIC PUMP ALTERNATION BETWEEN EQUAL SPLIT PUMPS.</li><li>H. LOW SUCTION CONDITION SHALL BE INITIATED AS A SEPARATE EXCLUSIVE PRESSURE SWITCH, (FOR PRESSURE FEED SYSTEMS), OR A LIQUID LEVEL FLOAT SWITCH, (FOR BREAK TANK OPERATION).</li><li>I. ALL CONTROL COMPONENTS SHALL BE UL LISTED, OR RECOGNIZED DEVICES.</li><li>J. THE CONTROLLER SHALL BE UL 508 LISTED, AN IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, (NEC).</li><li>K. NOTE: ALL COMPONENTS SHALL BE OF STANDARD MANUFACTURE, AND NOT BE OF PROPRIETARY SOLE SOURCE. ALL COMPONENTS SHALL BEAR THE MANUFACTURERS ORIGINAL NAME/DATE DATA, AND SOURCE, SUCH THAT REPAIR PARTS MAY BE READILY AVAILABLE AT REASONABLE COST TO THE OWNER.</li><li>L. PUMP SEQUENCING SHALL BE INITIATED, AND CONTROLLED VIA THE PROGRAMMABLE LOGIC CONTROLLER WHICH COMMUNICATES WITH ALL VARIABLE FREQUENCY DRIVES AND PRESSURE INPUTS TO DETERMINE WHEN THE INITIAL PUMP HAS EXCEEDED ITS CAPACITY WITHIN A VARIABLE ON DELAY TIME, WHEN FLOW REACHED ZERO IN THE SYSTEM HEADERS, THE SYSTEM SHALL REVERT TO A "STAND-BY" MODE, (NO FLOW SHUT/DOWN).</li><li>M. PUMP THERMAL RELIEF: PROVIDE SECONDARY EMERGENCY, NON-ELECTRIC, THERMAL, AND PRESSURE RELIEF VALVE TO PREVENT PUMPS FROM OVERHEATING DUE TO DEAD HEADING CONDITION. THE PROTECTIVE DEVICE SHALL RELIEVE AT 145 DEGREES F AND PRESSURE SETTING SHALL BE BASED ON SYSTEM PRESSURE - 15 PSI FOR SYSTEMS OVER 80 PSIG AND 85 PSIG FOR SYSTEMS BELOW.</li><li>N. BLADDER TANK: NO BLADDER TANK IS RECOMMENDED, OR REQUIRED FOR THIS TYPE SYSTEM.</li><li>O. PRESSURE REGULATION: PRESSURE REGULATION IS PROVIDED VIA THE VARIABLE FREQUENCY DRIVE CONTROLLERS, WITH PID CONTROL. NO OTHER PRESSURE REGULATORS ARE REQUIRED. IN THE EVENT OF ANY DRIVE FAILURE, NEXT DRIVE IN SEQUENCE SHALL START AUTOMATICALLY AND THE FAILED DRIVE SHALL INDICATE A FAULT CONDITION, IN THE EVENT OF A LOSS OF TRANSDUCER SIGNAL, THE SYSTEM SHALL BE PRE-PROGRAMMED TO A "FAIL-SAFE MODE" WHICH WILL RAMP PUMPS TO A SAFE-SPEED AND MAINTAIN POSITIVE PRESSURE ON THE SYSTEM PIPING WITHOUT SHUTTING THE SYSTEM DOWN. THERE WILL BE NO FAILURE OF THE MAJOR CONTROL COMPONENTS WHICH WILL COMPROMISE THE BUILDING PIPE PRESSURE RATINGS.</li></ol> <p><u>FABRICATION:</u></p> <p>ALL HEADERS, NIPPLES, AND WELDED ATTACHMENTS TO THE HEADERS SHALL BE TYPE 304 STAINLESS STEEL MATERIALS. ALL WELDING SHALL BE IN ACCORDANCE WITH SECTION IX OF THE ASME BOILER AND PRESSURE VESSEL CODE, AND SHALL BE PERFORMED BY WELDERS QUALIFIED UNDER THAT STANDARD. THE COMPLETED SYSTEM SHALL BE HYDROSTATICALLY TESTED AFTER ALL APPURTENANCES HAVE BEEN INSTALLED TO A MINIMUM OF 1.5 TIMES THE SPECIFIED SYSTEM WORKING PRESSURE. EACH PUMP SHALL HAVE AN INDIVIDUAL, RESILIENT SEATED NON-SLAM TYPE CHECK VALVE ON EACH PUMP. IMMEDIATELY DOWNSTREAM OF THE PUMP DISCHARGE, ALL PUMPS SHALL BE MOUNTED UTILIZING IN-SHEAR RUBBER VIBRATION ISOLATORS MOUNTED TO THE MOTOR BASES. ALL STAINLESS STEEL SURFACES SHALL BE BRUSHED OR POLISHED.</p> <p><u>START-UP:</u></p> <p>INITIAL FACTORY START-UP, AND OWNER TRAINING SHALL BE PERFORMED BY A QUALIFIED FACTORY TRAINED TECHNICIAN. A FACTORY CERTIFIED START-UP REPORT MUST BE PROVIDED TO THE OWNER, DATED AND SIGNED BY THE FACTORY TECHNICIAN.</p> <p>PARTS: A COMPLETE LISTING OF ALL PARTS, AND EQUIPMENT FOR THE SYSTEM SHALL BE LISTED USING THE ORIGINAL MANUFACTURER'S MODEL, AND SERIAL NUMBERS, AND SOURCE INFORMATION.</p> <p>OWNER TRAINING: THE OWNER INSTRUCTION, AND TRAINING SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:</p> <ol style="list-style-type: none"><li>1. TRAINING IN THE REPLACEMENT OF THE MOTOR, MECHANICAL SEALS AND PUMP IMPELLER.</li><li>2. SAFE REPLACEMENT OF THE CONTROL MODULE EEPROM CHIP, FUSES, AND PILOT LAMPES.</li><li>3. PROPER OPERATION OF THE SYSTEM, TROUBLESHOOTING, ALARM, AND RESET FEATURES.</li></ol> <p>ON-SITE FACTORY WARRANTY: PROVIDE 3-YEAR EXTENDED WARRANTIES FOR ALL EQUIPMENT SERVICING COMMON AREAS. WARRANTY SHALL BE A "FACTORY ON-SITE" WARRANTY WHICH INCLUDES BOTH THE TIME AND MATERIALS IN THE EVENT OF A FAILURE. WARRANTY WILL BE PERFORMED BY THE MANUFACTURER OR A PROPERLY TRAINED FACTORY REPRESENTATIVE.</p>	<p><u>NATURAL GAS AND PROPANE PIPING:</u></p> <p>LABELING AND IDENTIFYING DETECTABLE WARNING TAPE: ACID- AND ALKALI-RESISTANT, PE FILM WARNING TAPE MANUFACTURED FOR MARKING AND IDENTIFYING UNDERGROUND UTILITIES, A MINIMUM OF 6 INCHES (150 MM) WIDE AND 4 MILS (0.1 MM) THICK, CONTINUOUSLY INSCRIBED WITH A DESCRIPTION OF UTILITY, WITH METALLIC CORE ENCASED IN A PROTECTIVE JACKET FOR CORROSION PROTECTION, DETECTABLE BY METAL DETECTOR WHEN TAPE IS BURIED UP TO 30 INCHES (750 MM) DEEP; COLORED YELLOW.</p> <p><u>MATERIAL:</u></p> <p>STEEL PIPE: ASTM A 53/A 53M, BLACK STEEL, SCHEDULE 40, TYPE E OR S, GRADE B WITH MINIMUM OPERATING-PRESSURE RATING FOR REGULATORS, PIPING AND VALVES: 100 PSIG (690 KPA) MINIMUM UNLESS OTHERWISE INDICATED. MINIMUM OPERATING PRESSURE OF SERVICE METER, 5 PSIG (34.5 KPA). COMPLY WITH NFPA 54 FOR INSTALLATION AND PURGING OF NATURAL-GAS PIPING. NATURAL-GAS SYSTEM PRESSURE WITHIN BUILDINGS: MORE THAN 0.5 PSIG (34.5 KPA) BUT NOT MORE THAN 2 PSIG (13.8 KPA). LINE PRESSURE REGULATORS COMPLY WITH ANSI Z21.80.</p> <p>COORDINATE SIZES AND LOCATIONS OF CONCRETE BASES WITH ACTUAL EQUIPMENT PROVIDED. COORDINATE REQUIREMENTS FOR ACCESS PANELS AND DOORS FOR VALVES INSTALLED CONCEALED BEHIND FINISHED SURFACES. COMPLY WITH REQUIREMENTS IN DIVISION 08 SECTION "ACCESS DOORS AND FRAMES."</p> <p>INTERRUPTION OF EXISTING NATURAL-GAS SERVICE: DO NOT INTERRUPT NATURAL-GAS SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE PURGING AND STARTUP OF NATURAL-GAS SUPPLY ACCORDING TO REQUIREMENTS INDICATED.</p> <ol style="list-style-type: none"><li>1. NOTIFY CONSTRUCTION MANAGER OR OWNER NO FEWER THAN TWO DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF NATURAL-GAS SERVICE.</li><li>2. DO NOT PROCEED WITH INTERRUPTION OF NATURAL-GAS SERVICE WITHOUT CONSTRUCTION MANAGERS OR OWNERS WRITTEN PERMISSION.</li></ol> <p>SERVICE-METER ASSEMBLY INSTALLATION</p> <ol style="list-style-type: none"><li>1. INSTALL SERVICE-METER ASSEMBLIES ABOVEGROUND, ON CONCRETE BASES.</li><li>2. INSTALL METAL SHUTOFF VALVES UPSTREAM FROM SERVICE REGULATORS. SHUTOFF VALVES ARE NOT REQUIRED AT SECOND REGULATORS IF TWO REGULATORS ARE INSTALLED IN SERIES.</li><li>3. INSTALL STRAINER OR FILTER BEFORE PRESSURE-REDUCING REGULATOR AND METER SET.</li><li>4. INSTALL SERVICE REGULATORS MOUNTED OUTSIDE WITH VENT OUTLET HORIZONTAL OR FACING DOWN. INSTALL SCREEN IN VENT OUTLET IF NOT INTEGRAL WITH SERVICE REGULATOR.</li><li>5. INSTALL METAL SHUTOFF VALVES UPSTREAM FROM SERVICE METERS. INSTALL DIELECTRIC FITTINGS DOWNSTREAM FROM SERVICE METERS.</li><li>6. INSTALL SERVICE METERS DOWNSTREAM FROM PRESSURE REGULATORS.</li><li>7. INSTALL METAL BOLLARDS TO PROTECT METER ASSEMBLIES. COMPLY WITH REQUIREMENTS IN DIVISION 05 SECTION "METAL FABRICATIONS" FOR PIPE BOLLARDS.</li></ol> <p><u>STORM, SANITARY AND WASTE VENT PIPING</u></p> <p>PERFORMANCE REQUIREMENTS: STORM DRAINAGE PIPING, SOIL, WASTE, AND VENT PIPING COMPONENTS COMPONENTS AND INSTALLATION SHALL BE CAPABLE OF WITHSTANDING A MINIMUM WORKING PRESSURE OF 10-FOOT HEAD OF WATER, UNLESS OTHERWISE INDICATED.</p> <p>COMPLY WITH NSF 14, "PLASTICS PIPING SYSTEMS COMPONENTS AND RELATED MATERIALS," FOR PLASTIC PIPING COMPONENTS. INCLUDE MARKING WITH "NSF-STORM" FOR PLASTIC DRAIN PIPING, "NSF-DRAIN" FOR PLASTIC DRAIN PIPING AND "NSF-SEWER" FOR PLASTIC SEWER PIPING. INSTALL PVC STORM, SOIL, AND WASTE DRAINAGE AND VENT PIPING ACCORDING TO ASTM D 2665.</p> <p>UNDERGROUND PIPING SHALL BE SOLID-WALL PVC PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS. DISSIMILAR PIPE-MATERIAL COUPLINGS: FLEXIBLE &amp; SHIELDED, NONPRESSURE PIPE COUPLINGS FOR JOINING DISSIMILAR PIPE MATERIALS WITH SMALL DIFFERENCE IN OD. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY. INSTALL UNDERGROUND PVC SOIL AND WASTE DRAINAGE PIPING ACCORDING TO ASTM D 2321.</p> <p>MAKE CHANGES IN DIRECTION FOR SOIL AND WASTE DRAINAGE AND VENT PIPING USING APPROPRIATE BRANCHES, BENDS, AND LONG SWEEP BENDS. SANITARY TEES AND SHORT-SWEEP 1/4 BENDS MAY BE USED ON VERTICAL STACKS IF CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL. USE LONG-TURN, DOUBLE Y-BRANCH AND 1/8-BEND FITTINGS IF 2 FIXTURES ARE INSTALLED BACK TO BACK OR SIDE BY SIDE WITH COMMON DRAIN PIPE. STRAIGHT TEES, ELBOWS, AND CROSSES MAY BE USED ON VENT LINES. DO NOT CHANGE DIRECTION OF FLOW MORE THAN 90 DEGREES. USE PROPER SIZE OF STANDARD INCREASERS AND REDUCERS IF PIPES OF DIFFERENT SIZES ARE CONNECTED. REDUCING SIZE OF DRAINAGE PIPING IN DIRECTION OF FLOW IS PROHIBITED.</p> <p>INSTALL HORIZONTAL STORM, SOIL, AND WASTE DRAINAGE AND VENT PIPING AT 2 PERCENT DOWNWARD MINIMUM SLOPES IN DIRECTION OF FLOW FOR PIPING NPS 3" AND SMALLER, 1 PERCENT DOWNWARD IN DIRECTION OF FLOW FOR PIPING NPS 4" AND LARGER. VENT PIPING: 1 PERCENT DOWN TOWARD VERTICAL FIXTURE VENT OR TOWARD VENT STACK.</p> <p>INSTALL HANGERS FOR PVC PIPING WITH THE FOLLOWING MAXIMUM HORIZONTAL SPACING AND MINIMUM ROD DIAMETERS:</p> <ol style="list-style-type: none"><li>1. NPS 1-1/2 AND NPS 2: 48 INCHES WITH 3/8-INCH ROD.</li><li>2. NPS 3: 48 INCHES WITH 1/2-INCH ROD.</li><li>3. NPS 4 AND 5: 48 INCHES WITH 5/8-INCH ROD.</li><li>4. NPS 6: 48 INCHES WITH 3/4-INCH ROD.</li><li>5. NPS 8 TO NPS 12: 48 INCHES WITH 7/8-INCH ROD.</li></ol> <p>TEST STORM, SANITARY DRAINAGE AND VENT PIPING ACCORDING TO PROCEDURES OF AUTHORITIES HAVING JURISDICTION OR IN ABSENCE OF PUBLISHED PROCEDURES, TEST FOR LEAKS AND DEFECTS IN NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED. IF TESTING IS PERFORMED IN SEGMENTS, SUBMIT SEPARATE REPORT FOR EACH TEST, COMPLETE WITH DIAGRAM OF PORTION OF PIPING TESTED.</p> <p>LEAVE UNCOVERED AND UNCONCEALED NEW, ALTERED, EXTENDED, OR REPLACED DRAINAGE AND VENT PIPING UNTIL IT HAS BEEN TESTED AND APPROVED. EXPOSE WORK THAT WAS COVERED OR CONCEALED BEFORE IT WAS TESTED.</p> <p>ROUGH-IN IN PLUMBING TEST PROCEDURE: TEST DRAINAGE AND VENT PIPING, EXCEPT OUTSIDE LEADERS, ON COMPLETION OF ROUGH-IN. CLOSE OPENINGS IN PIPING SYSTEM AND FILL WITH WATER TO POINT OF OVERFLOW, BUT NOT LESS THAN 10-FOOT HEAD OF WATER. INSPECT FOR LEAKS AND DEFECTS. AFTER INSPECTION STOPS TO COMPLETION OF INSPECTION, WATER LEVEL MUST NOT DROP. INSPECT JOINTS FOR LEAKS.</p> <p>FINISHED PLUMBING TEST PROCEDURE: AFTER PLUMBING FIXTURES HAVE BEEN SET AND TRAPS FILLED WITH WATER, TEST CONNECTIONS AND PROVE THEY ARE GASTIGHT AND WATERTIGHT. PLUG VENT STACK OPENINGS ON ROOF AND BUILDING DRAINS WHERE THEY LEAVE BUILDING. INTRODUCE AIR INTO PIPING SYSTEM EMO, TO PRESSURE OF 1-INCH WG. USE U-TUBE OR MANOMETER INSERTED IN TRAP OF WATER CLOSURE TO MEASURE THIS PRESSURE. AIR PRESSURE MUST REMAIN CONSTANT WITHOUT INTRODUCING ADDITIONAL AIR THROUGHOUT PERIOD OF INSPECTION. INSPECT PLUMBING FIXTURE CONNECTIONS FOR GAS AND WATER LEAKS.</p> <p>REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING, OR PORTION THEREOF, UNTIL SATISFACTORY RESULTS ARE OBTAINED.</p> <p>PREPARE REPORTS FOR TESTS AND REQUIRED CORRECTIVE ACTION.</p> <p><u>CLEANING</u></p> <ol style="list-style-type: none"><li>1. CLEAN INTERIOR OF PIPING. REMOVE DIRT AND DEBRIS AS WORK PROGRESSES.</li><li>2. PROTECT DRAINS DURING REMOVAL OF CONSTRUCTION PERIOD TO AVOID CLOGGING WITH DIRT AND DEBRIS AND TO PREVENT DAMAGE FROM TRAFFIC AND CONSTRUCTION WORK.</li><li>3. PLACE PLUGS IN ENDS OF UNCOMPLETED PIPING AT END OF DAY AND WHEN WORK STOPS.</li></ol> <p><u>PROTECTION EXPOSED PVC PIPING:</u></p> <p>PROTECT PLUMBING VENTS EXPOSED TO SUNLIGHT WITH TWO COATS OF WATER-BASED LATEX PAINT.</p> <p><u>DRAINAGE PIPING</u></p> <ol style="list-style-type: none"><li>1. INSTALL BACKWATER VALVES IN BUILDING DRAIN PIPING. FOR INTERIOR INSTALLATION, PROVIDE CLEANOUT DECK PLATE FLUSH WITH FLOOR AND CENTERED OVER BACKWATER VALVE COVER, AND OF ADEQUATE SIZE TO REMOVE VALVE COVER FOR SERVING.</li><li>2. INSTALL CLEANOUTS IN ABOVEGROUND PIPING AND BUILDING DRAIN PIPING ACCORDING TO THE FOLLOWING, UNLESS OTHERWISE INDICATED:<ol style="list-style-type: none"><li>1. FOR FLOOR CLEANOUTS FOR PIPING BELOW FLOORS, INSTALL CLEANOUT DECK PLATES WITH TOP FLUSH WITH FINISHED FLOOR.</li><li>2. FOR CLEANOUTS LOCATED IN CONCEALED PIPING, INSTALL CLEANOUT WALL ACCESS COVERS, OF TYPES INDICATED, WITH FRAME AND COVER FLUSH WITH FINISHED WALL.</li></ol></li><li>3. INSTALL FLOOR DRAINS AT LOW POINTS OF SURFACE AREAS TO BE DRAINED. POSITION FLOOR DRAINS FOR EASY ACCESS AND MAINTENANCE. SET GRATES OF DRAINS FLUSH WITH FINISHED FLOOR, UNLESS OTHERWISE INDICATED.</li><li>4. INSTALL ROOF DRAINS AT LOW POINTS OF ROOF AREAS ACCORDING TO ROOF-MEMBRANE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.</li><li>7. INSTALL ENGRAVED PLASTIC-LAMINATE EQUIPMENT NAMEPLATE OR SIGN ON OR NEAR EACH GREASE INTERCEPTOR.</li></ol> <p><u>CUTTING AND PATCHING:</u></p> <p>SUBMIT WRITTEN REQUEST IN ADVANCE OF CUTTING OR ALTERING ELEMENTS.</p> <p>EMPLOY SKILLED AND EXPERIENCED INSTALLER TO PERFORM CUTTING AND PATCHING WHICH EFFECT:</p> <ol style="list-style-type: none"><li>1. INTEGRITY OF WEATHER PROOFING MATERIALS.</li><li>2. EFFICIENCY, MAINTENANCE, OR SAFETY OF ELEMENT.</li><li>3. VISUAL QUALITIES OF SIGHT.</li><li>4. WORK OF OWNER OR SEPARATE CONTRACTOR.</li></ol> <p>NO STRUCTURAL ELEMENTS TO BE CUT WITHOUT PRIOR APPROVAL OF THE ARCHITECT.</p>
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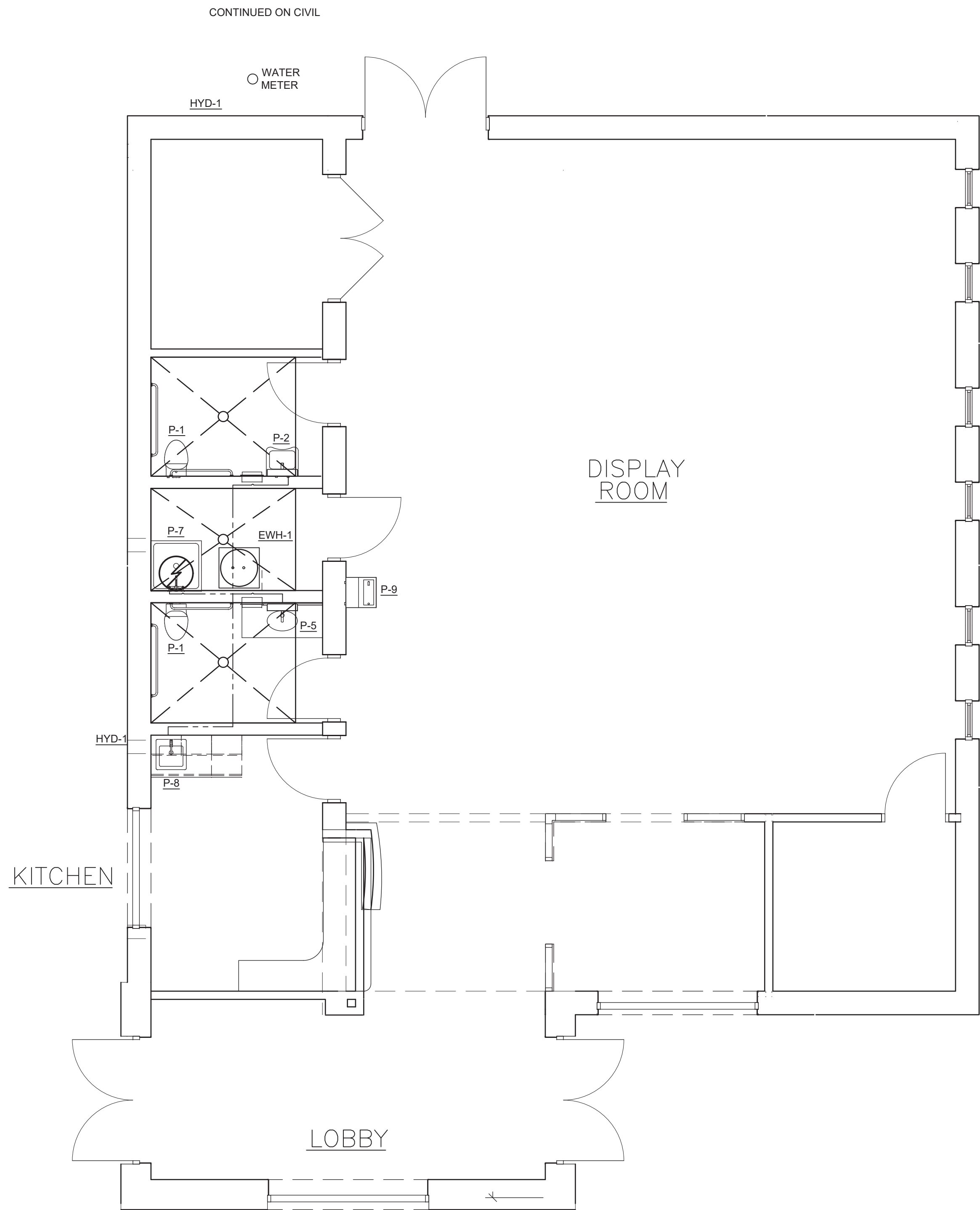
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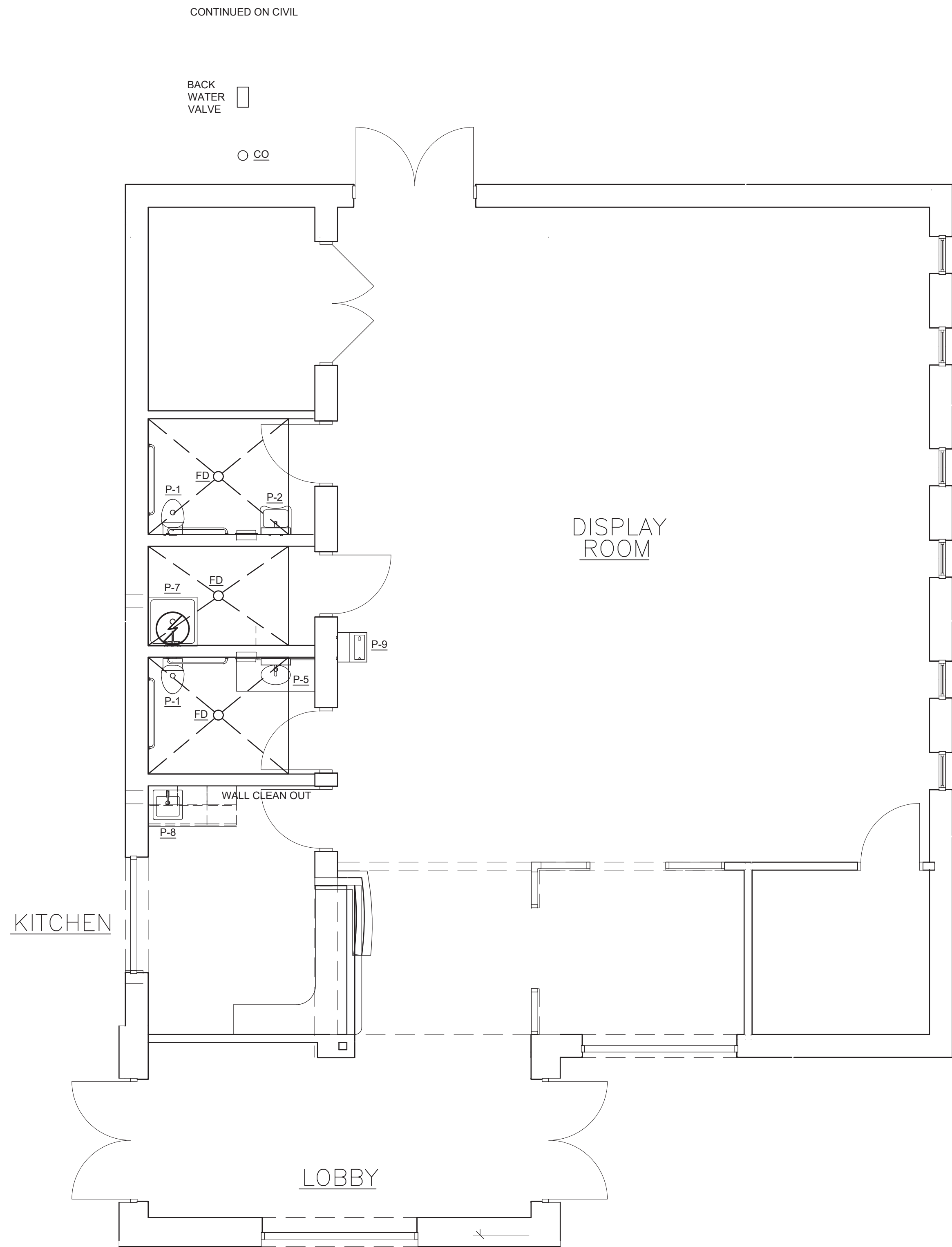


SHEET NOTES:  
1. REFER TO CIVIL/SITE PLANS FOR INFORMATION ON METER OR BFP.



**FIRST FLOOR PLAN - WATER SUPPLY**

SCALE 1/4" = 1FT



**FIRST FLOOR PLAN - WASTE WATER**

SCALE 1/4" = 1FT

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**PLUMBING FLOOR PLAN DOMESTIC WATER**

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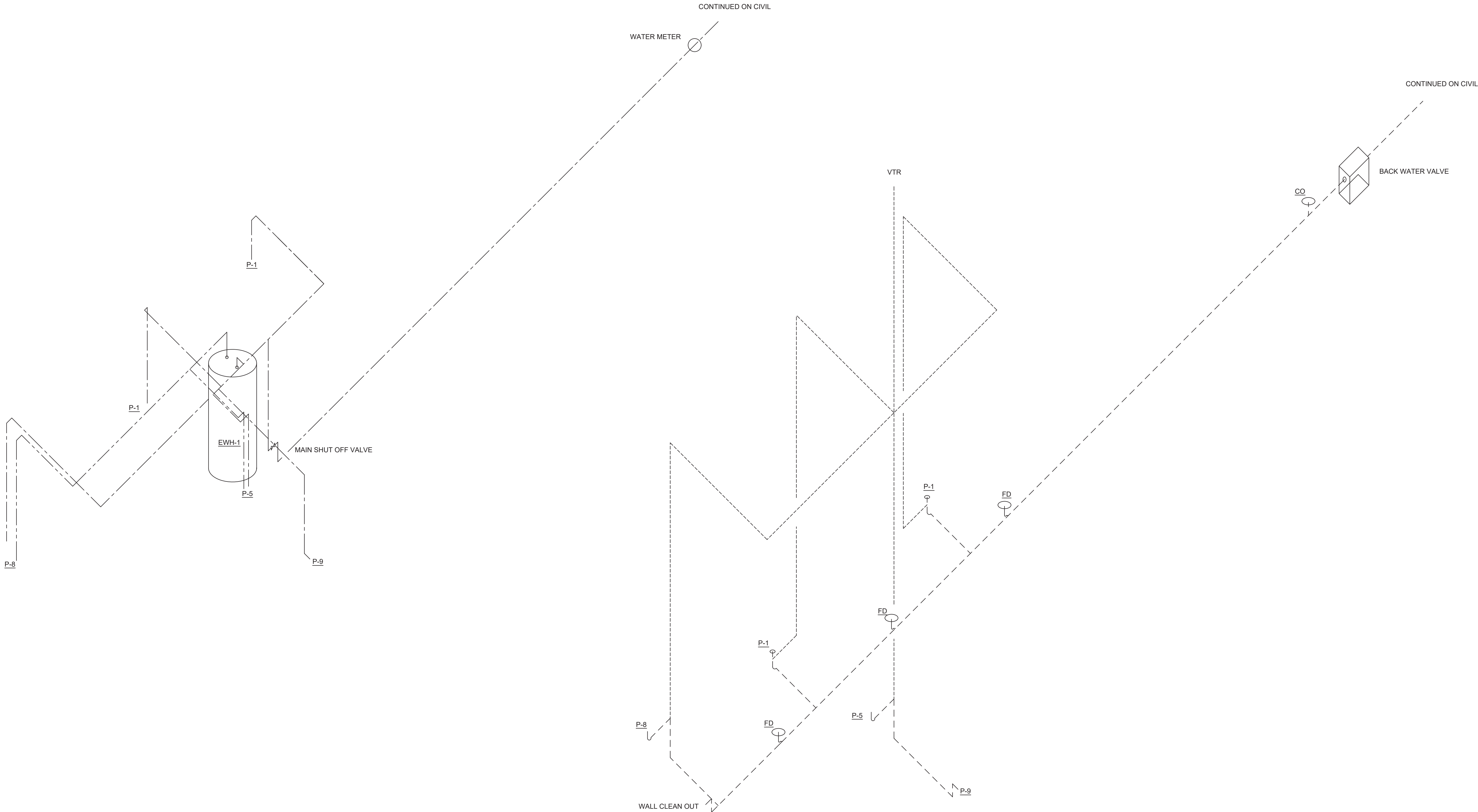
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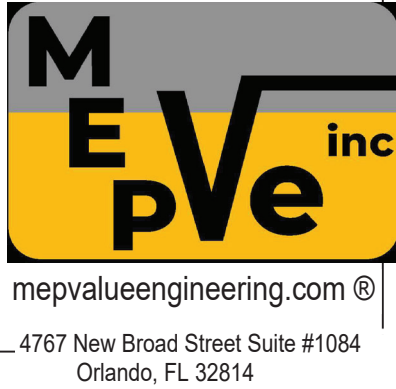
- SHEET NOTES:
1. ROUTE VENT PIPING ABOVE CEILING.
  2. TERMINATE VENT PIPE MIN 12" AFF WITH 3-INCH BIRD SCREEN. COORDINATE TERMINATION WITH EXHAUST AND RETURN LOUVER LOCATION. MAINTAIN 10 FT CLEARANCE FROM BUILDING OPENINGS.
  3. CONTRACTOR TO FIELD VERIFY THE INVERT AND FLOW DIRECTION OF THE SANITARY LINE . REFERENCE CIVIL PLANS FOR CONTINUATION.



**FIRST FLOOR RISER - WATER SUPPLY**  
NO SCALE

**FIRST FLOOR RISER - WASTE WATER**  
NO SCALE

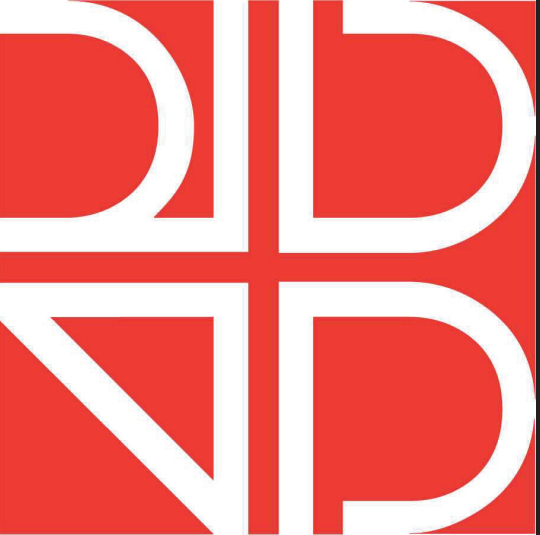
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**PLUMBING FLOOR PLAN WASTE WATER**

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