

ITB #26-408 Hampstead Library Construction Services

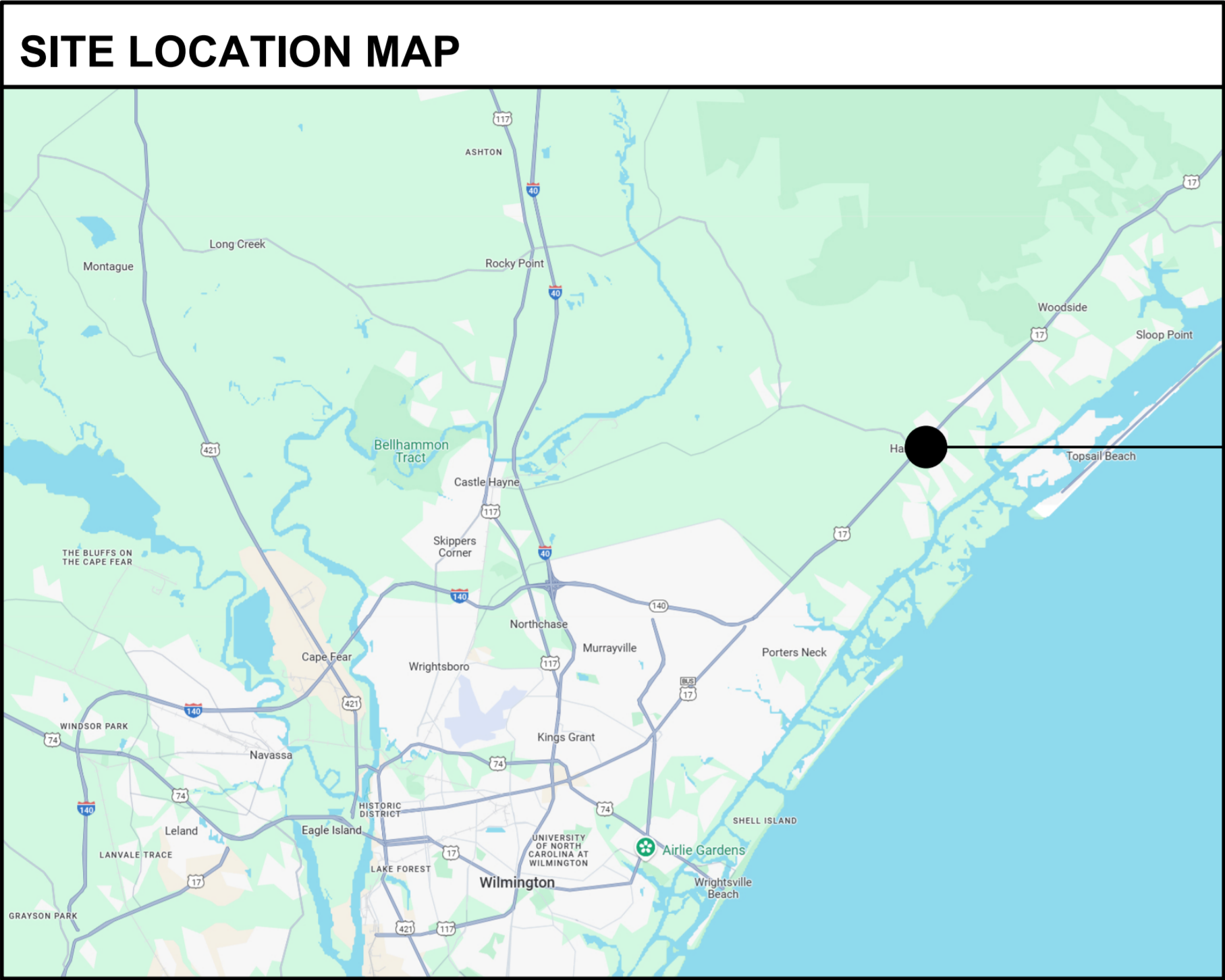
Pender County Library, Hampstead Branch

15146 US Hwy 17

Hampstead, NC 28443

Construction Drawings

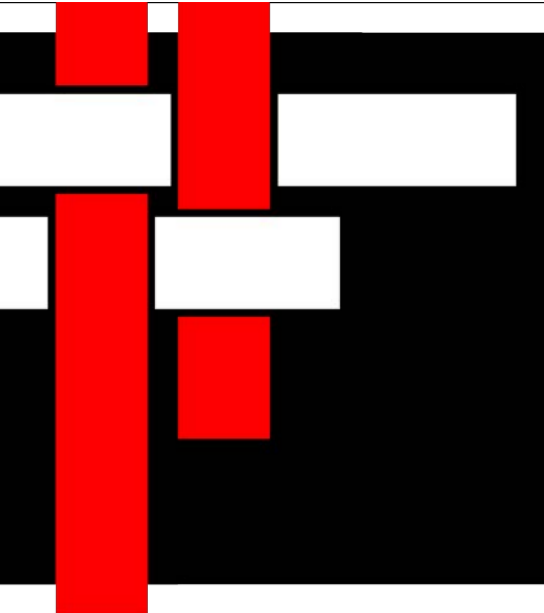
October 6, 2025



Project Site


Abbreviations	Symbols Legend
A.C.T. - ACOUSTICAL CEILING TILE ADJ. - ADJUSTABLE A.F.F. - ABOVE FINISHED FLOOR ALUM. - ALUMINUM AHU - AIR HANDLING UNIT BLDG. - BUILDING B.O.S. - BOTTOM OF STEEL B.R. - BACKER ROD C.J. - CONTROL JOINT C.M.U. - CONCRETE MASONRY UNIT CONC. - CONCRETE C.O. - CLEAN OUT CONT. - CONTINUOUS CP - CONCRETE PIPE C.L. - CENTER LINE DIA. - DIAMETER DIM. - DIMENSION D.S. - DOWN SPOUT E.C. - ELECTRICAL CONTRACTOR E.J. - EXPANSION JOINT ELEV. - ELEVATION EQ. - EQUAL EQUIP. - EQUIPMENT EXIST. - EXISTING EXP. JT. - EXPANSION JOINT F.F.E. - FINISH FLOOR ELEVATION F.V. - FIELD VERIFY GALV. - GALVANIZED GA. - GAUGE G.C. - GENERAL CONTRACTOR GWB. - GYPSUM WALL BOARD HT. - HEIGHT INSUL. - INSULATION INV. - INVERT JT. - JOINT MAS. - MASONRY MAX. - MAXIMUM MECH. - MECHANICAL MFG. - MANUFACTURER MIN. - MINIMUM NOM. - NOMINAL O.C. - ON CENTER PERF. - PERFORATED HPL. - HIGH PRESSURE LAMINATE PLYWD. - PLYWOOD P.S.I. - POUNDS PER SQUARE INCH R. - RADIUS R/A. - RETURN AIR R.A.G. - RETURN AIR GRILL R.C.P. - REINFORCED CONCRETE PIPE RD. - ROOF DRAIN REINF. - REINFORCEMENT REQ'D. - REQUIRED R.O. - ROUGH OPENING S/A. - SUPPLY AIR S.S. - STAINLESS STEEL T.O.M. - TOP OF MASONRY STRUCT. - STRUCTURAL T.O.S. - TOP OF STEEL TRTD. - TREATED TYP. - TYPICAL V.B. - VAPOR BARRIER V.C.T. - VINYL COMPOSITE TILE VERT. - VERTICAL W/ - WITH @ - AT, AROUND, REGARDING	<p>DRAWING TITLE</p> <p>INDICATES DRAWING #</p> <p>2 Drawing Title Scale</p> <p>SECTION REFERENCE</p> <p>INDICATES SECTION #</p> <p>1/A1.0 INDICATES SHEET WHERE DRAWING IS SHOWN</p> <p>ELEVATION REFERENCE</p> <p>1/A2.0 INDICATES SHEET WHERE ELEVATION IS SHOWN</p> <p>INDICATES ELEVATION #</p> <p>PLAN DETAIL REFERENCE</p> <p>INDICATES DETAIL #</p> <p>INDICATES SHEET WHERE DETAIL IS SHOWN</p> <p>INDICATES ENLARGED DETAIL</p> <p>100 DOOR # 100 ROOM #</p> <p>A WINDOW TYPE</p> <p>VERTICAL ELEVATION ABOVE REFERENCE POINT</p>


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ARCHITECTURE**


124 Market Street
Wilmington, NC 28401
910 762-0892
s2a3.com


 **CLH DESIGN, P.A.**
4401 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 318-6716
Fax: (919) 318-7516
LA. C-1585

 **CHEATHAM AND ASSOCIATES, P.A.
CONSULTING ENGINEERS**
3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
FAX: (910) 452-4211
OFFICE@CHEATHAMPA.COM
WWW.CHEATHAMPA.COM
NC LICENSE# C-1073

 **WOODS ENGINEERING**
Consulting Structural Engineers

254 North Front Street Phone: 910.343.8007
Suite 201 Fax: 910.343.8088
Wilmington, NC 28401 www.woodseng.com

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Hampstead Branch

15146 US Hwy 17
Hampstead, NC 28443

Construction Drawings

Issue Date: October 6, 2025

Cover

Rev.	Date	Notes

G1.0

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2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Pender County Library, Hampstead Branch
Address: 15146 US Hwy 17, Hampstead, NC Zip Code 28443
Owner/Authorized Agent: Sawyer Sherwood & Associate, P.C., Phone # (910) 762-0892, E-Mail jenny@s2a3.com
Owned By: County
Code Enforcement Jurisdiction: County

CONTACT:

DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE #	EMAIL
Architectural	Sawyer Sherwood & Associate, PC	Jenny L. Williams	14231	(910)762-0892	jenny@s2a3.com
Civil	CLH Design, PA	Robert F. Lawson	44704	(919)319-6716	rlawson@clhdesignpa.com
	RSC Engineering, PLLC	Anthony C. Braun	23044	(910)270-9599	cliff@rsconengineering.com
Electrical	Cheatham & Associates, PA	Mark Cheatham	17592	(910)452-4210	markc@cheathamco.com
Fire Alarm	Cheatham & Associates, PA	Mark Cheatham	17592	(910)452-4210	markc@cheathamco.com
Plumbing	Cheatham & Associates, PA	Casey Gilman	43164	(910)452-4210	cgilman@cheathamco.com
Mechanical	Cheatham & Associates, PA	Kenneth Lynch	17655	(910)452-4210	klynch@cheathamco.com
Sprinkler	Cheatham & Associates, PA	Casey Gilman	43164	(910)452-4210	cgilman@cheathamco.com
Structural	Woods Engineering, PA	Adam Sisk	41563	(910)343-8007	adam@woodseng.com
Ret. Walls	N/A				
Landscape	CLH Design, PA	Troy R. Olson	2045	(919)319-6716	tolson@clhdesignpa.com

(*Other* should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: New Building

2018 NC EXISTING BUILDING CODE: N/A N/A N/A

CONSTRUCTED: (date) N/A CURRENT OCCUPANCY(S) (Ch. 3): N/A

RENOVATED: (date) N/A PROPOSED OCCUPANCY(S) (Ch. 3): N/A

RISK CATEGORY (Table 1604.5): Current: N/A Proposed: III

BASIC BUILDING DATA

Construction Type: V-B

Sprinklers: Yes NEPA 13

Standpipes: No

Primary Fire District: No

Flood Hazard Area: No
Special Inspections Required: Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor			
2 nd Floor			
Mezzanine			
1 st Floor		20,428	
Basement			
TOTAL		20,428	

2018 NC Administrative Code and Policies

ALLOWABLE AREA

Primary Occupancy Classification(s): Assembly - A-3 N/A N/A N/A N/A N/A

Accessory Occupancy Classification(s): _____

Incidental Uses (Table 509): _____

Special Uses (Chapter 4 – List Code Sections): _____

Special Provisions: (Chapter 5 – List Code Sections): _____

Mixed Occupancy: No Separation: Select one Exception: _____

Select one

$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$

_____ + _____ + = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ¹ AREA	(C) AREA FOR FRONTAGE INCREASE ^{2,3}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{3,4}
1	Library	20,428	24,000	-	24,000

- ¹ Frontage area increases from Section 506.3 are computed thus:
- Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
 - Total Building Perimeter = _____ (P)
 - Ratio (F/P) = _____ (F/P)
 - W = Minimum width of public way = _____ (W)
 - Percent of frontage increase $I_f = 100(F/P - 0.25) \times W/30 = \text{_____} (\%)$

² Unlimited area applicable under conditions of Section 507.

³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).

⁴ The maximum area of open parking garages must comply with Table 406.5.4.

⁵ Frontage increase is based on the unspinklered area value in Table 506.2.

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
Building Height in Feet (Table 504.3) ²	60'	21'-7"	
Building Height in Stories (Table 504.4) ³	2	1	

¹ Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

² The maximum height of air traffic control towers must comply with Table 412.3.1.

³ The maximum height of open parking garages must comply with Table 406.5.4.

2018 NC Administrative Code and Policies

FIRE PROTECTION REQUIREMENTS							
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, joists,							
Bearing Walls							
Exterior							
North	> 30 ft	N/A					
East	> 30 ft	N/A					
West	26'-6" ft	N/A					
South	> 30 ft	N/A					
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North	N/A						
East	N/A						
West	N/A						
South	N/A						
Interior walls and partitions							
Floor Construction	N/A						
Including supporting beams and joists	N/A						
Floor Ceiling Assembly	N/A						
Columns Supporting Floors	0 Hr						
Roof Construction, including supporting beams and joists	0 Hr						
Roof Ceiling Assembly	0 Hr						
Columns Supporting Roof	0 Hr						
Shift Enclosures - East	N/A						
Shift Enclosures - Other	N/A						
Corridor Separation	2 Hr		2 Hr	1/G2.0	NCBC Table 703.1(2), Item # 14.1.5		
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation	N/A						
Smoke Barrier Separation	N/A						
Smoke Partition	N/A						
Tenant/Dwelling Unit Sleeping Unit Separation	N/A						
Incidental Use Separation	N/A						

* Indicate section number permitting reduction

2018 NC Administrative Code and Policies

PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
West: 25 > 30 ft	0	No limit	
South, East, and North: > 30 ft	0	No limit	

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes
Exit Signs: Yes
Fire Alarm: Yes
Smoke Detection Systems: No
Carbon Monoxide Detection: No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G2.1

- ☒ Fire and/or smoke rated wall locations (Chapter 7)
- ☒ Assumed and real property line locations (if not on the site plan)
- ☒ Exterior wall opening area with respect to distance to assumed property lines (705.8)
- ☒ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- ☒ Occupant loads for each area
- ☒ Exit access travel distances (1017)
- ☒ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
- ☒ Dead end lengths (1020.4)
- ☒ Clear exit widths for each exit door
- ☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- ☒ Actual occupant load for each exit door
- ☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
- ☒ Location of doors with panic hardware (1010.1.10)
- ☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- ☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
- ☐ Location of doors equipped with hold-open devices
- ☐ Location of emergency escape windows (1030)
- ☒ The square footage of each fire area (202)
- ☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- ☒ Note any code exceptions or table notes that may have been utilized regarding the items above

2018 NC Administrative Code and Policies

ACCESSIBLE DWELLING UNITS (SECTION 1107)							
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
-	N/A						

ACCESSIBLE PARKING (SECTION 1106)							
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED	
			REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE		
Library	41	51	0	0	4	4	
TOTAL	41	51	0	0	4	4	

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)											
USE	WATER CLOSETS			URINALS		LAVATORIES		SHOWERS / TUBS		DRINKING FOUNTAINS	
	MALE	FEMALE	UNSEX	MALE	FEMALE	MALE	FEMALE	UNSEX	REGULAR	ACCESSIBLE	
EXIST'G	1	2	3	1	2	2	3	-	-	1	1
NEW REQ'D	2	4	0	1	2	2	0	-	-	1	1

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

NC Department of Insurance, NC Department of Transportation

2018 NC Administrative Code and Policies

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: Select one N/A

Exempt Building: Select one Provide code or statutory reference: N/A

Climate Zone: 3A

Method of Compliance: Energy Code - Prescriptive
(If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

- Roof/Ceiling Assembly** (each assembly)
- Description of assembly:
- Low-slope membrane roofing
 - 1/2" gypsum cover board
 - 4'-12" Polyisocyanurate insulation at R-5.6 per inch
 - Wood roof deck
- U-Value of total assembly: U-0.036
- R-Value of insulation: R-25.2
- Skylights in each assembly: N/A
- U-Value of skylight: N/A
- Total square footage of skylights in each assembly: N/A
- Exterior Walls** (each assembly)
- Description of assembly: Stud walls with brick veneer
- Brick veneer
 - Wood sheathing
 - 2x8 Wood studs with 8-inch fiberglass batt insulation compressed to 7-1/4 inches
 - 5/8" Gypsum wall board
- U-Value of total assembly: U-0.049
- R-Value of insulation: R-24
- Openings (windows or doors with glazing)
- U-Value of assembly: 0.38
- Solar heat gain coefficient: 0.23
- Projection factor: < 0.25
- Door R-Values: U-0.67
- Description of assembly: Stud walls with metal siding
- Metal panel siding
 - Wood sheathing
 - 2x8 Wood studs with 8-inch fiberglass batt insulation compressed to 7-1/4 inches
 - 5/8" Gypsum wall board
- U-Value of total assembly: U-0.050
- R-Value of insulation: R-24
- Openings (windows or doors with glazing)
- U-Value of assembly: 0.38
- Solar heat gain coefficient: 0.23
- Projection factor: < 0.25
- Door R-Values: U-0.67

2018 NC Administrative Code and Policies

Floors slab on grade

Description of assembly: 4" Concrete slab on structural fill.

U-Value of total assembly: F-0.730

R-Value of insulation: N/R per Table C402.1.3

Horizontal/vertical requirement: N/A

Slab heated: No

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

SEE STRUCTURAL DRAWINGS

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

SEE MECHANICAL DRAWINGS

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

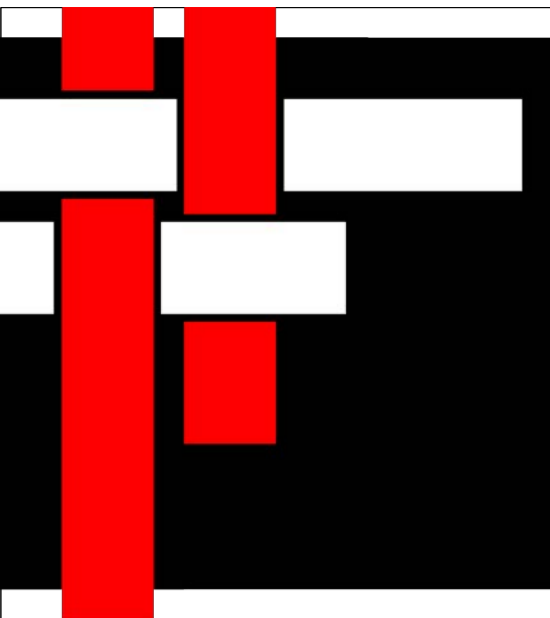
ELECTRICAL SUMMARY

SEE ELECTRICAL DRAWINGS

2018 NC Administrative Code and Policies

2024 NC BUILDING CODE TABLE 721.1(2)—continued RATED FIRE-RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS * * *						
MATERIAL	ITEM NUMBER	CONSTRUCTION	MINIMUM FINISHED THICKNESS FACE-TO-FACE ¹ (inches)			
			4 hours	3 hours	2 hours	1 hour
14. Wood studs— interior partition with gypsum wallboard each side	14-1.1 ^h _m	2" × 4" wood studs 16" on center with two layers of 3/8" regular gypsum wallboard ² each side. 4d cooler ³ or wallboard ⁴ nails at 8" on center first layer. 5d cooler ³ or wallboard ⁴ nails at 8" on center second layer with laminating compound between layers, joints staggered. First layer applied full length vertically, second layer applied horizontally or vertically.	—	—	—	5
	14-1.2 ^h _m	2" × 4" wood studs 16" on center with two layers 1/2" regular gypsum wallboard ² applied vertically or horizontally each side, joints staggered. Nail base layer with 5d cooler ³ or wallboard ⁴ nails at 8" on center face layer with 8d cooler ³ or wallboard ⁴ nails at 8" on center.	—	—	—	5 1/2
	14-1.3 ^h _m	2" × 4" wood studs 24" on center with 3/8" Type X gypsum wallboard ² applied vertically or horizontally nailed with 6d cooler ³ or wallboard ⁴ nails at 7" on center with end joints on nailing members. Stagger joints each side.	—	—	—	4 1/4
	14-1.4 ^h _m	2" × 4" fire-retardant-treated wood studs spaced 24" on center with one layer of 3/4" Type X gypsum wallboard ² applied with face paper grain (long dimension) parallel to studs. Wallboard attached with 6d cooler ³ or wallboard ⁴ nails at 7" on center.	—	—	—	4 1/4
	14-1.5 ^h _m	2" × 4" wood studs 16" on center with two layers 3/8" Type X gypsum wallboard ² each side. Base layers applied vertically and nailed with 6d cooler ³ or wallboard ⁴ nails at 9" on center. Face layer applied vertically or horizontally and nailed with 8d cooler ³ or wallboard ⁴ nails at 7" on center. For nail-adhesive application, base layers are nailed 6" on center. Face layers applied with coating of approved wallboard adhesive and nailed 12" on center.	—	—	6	—
	14-1.6 ^h _m	2" × 3" fire-retardant-treated wood studs spaced 24" on center with one layer of 3/4" Type X gypsum wallboard ² applied with face paper grain (long dimension) at right angles to studs. Wallboard attached with 6d cement-coated box nails spaced 7" on center.	—	—	—	3 3/4

1
G2.0
Typical Fire Barrier Detail
Scale: NOT TO SCALE

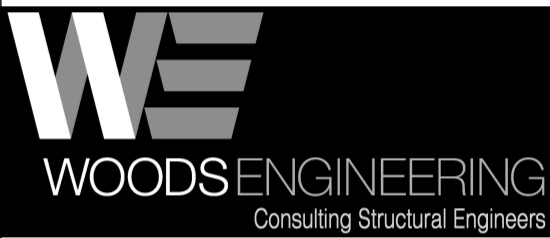


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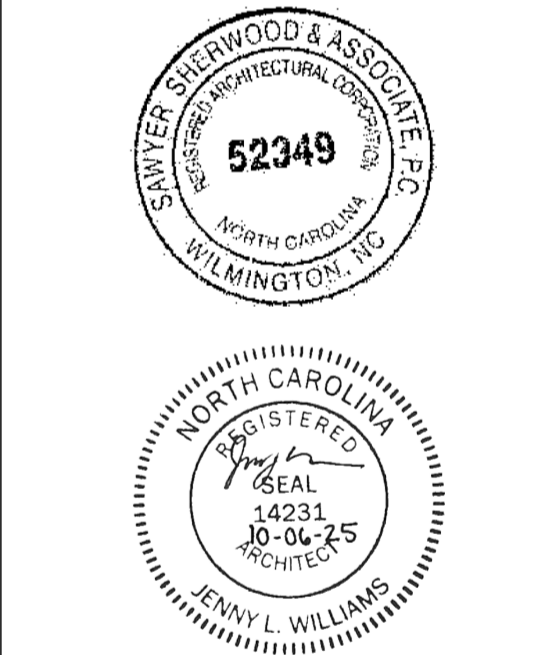


CHEATHAM AND ASSOCIATES, P.A.
CONSULTING ENGINEERS
3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
FAX: (910) 452-4211
OFFICE@CHEATHAMPA.COM
WWW.CHEATHAMPA.COM
NC LICENSE# C-1073



254 North Front Street Phone: 910.343.8007
Suite 201 Fax: 910.343.8088
Wilmington, NC 28401 www.woodseng.com

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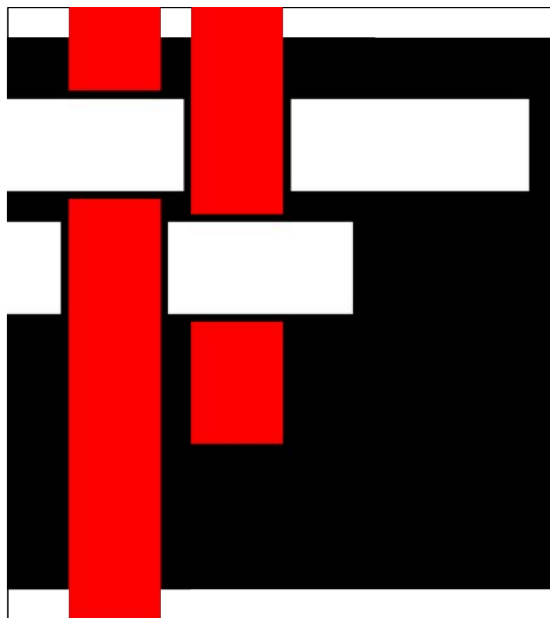
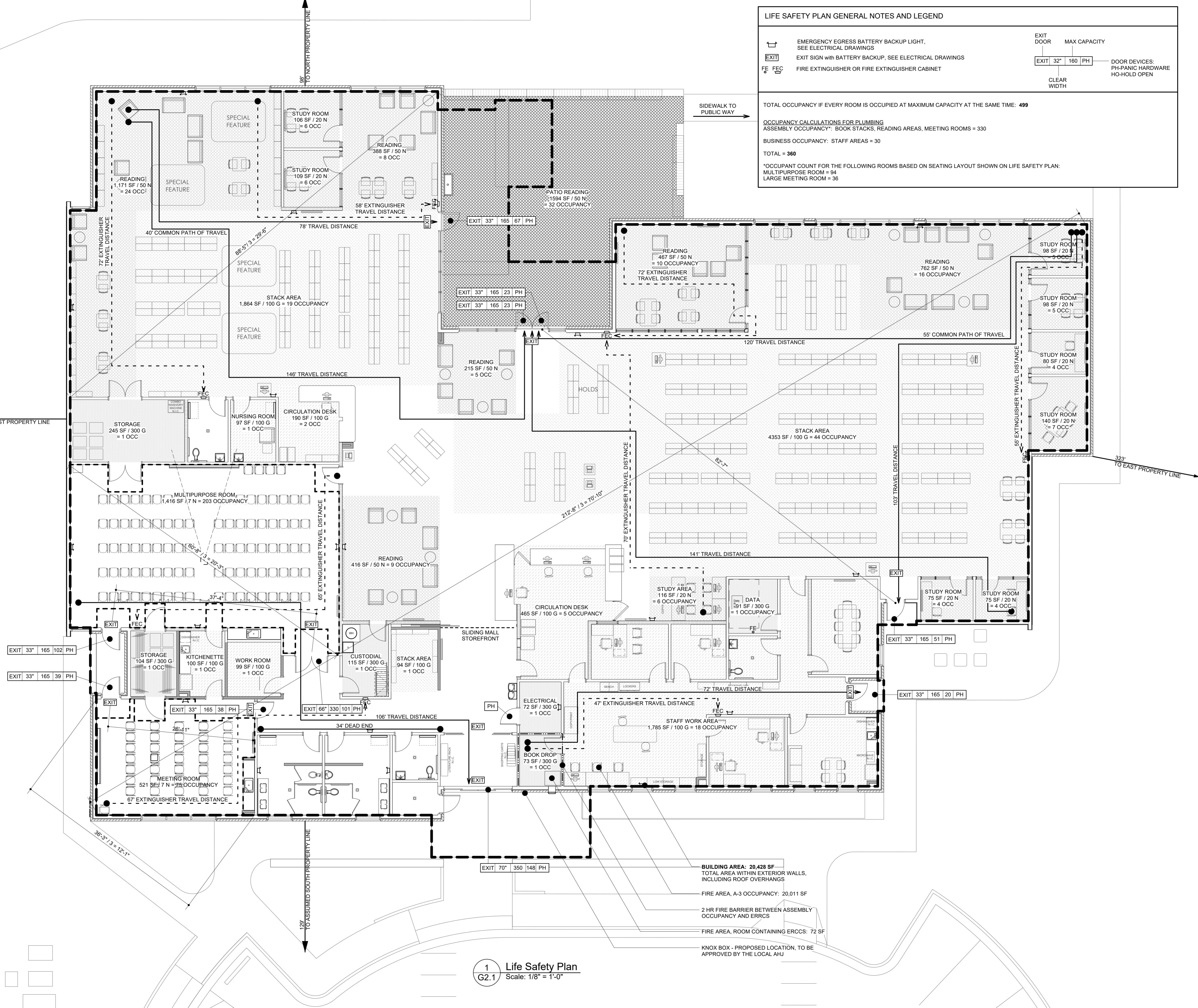
Construction Drawings

Issue Date: October 6, 2025

Appendix B & UL
Assemblies

Rev.	Date	Notes

G2.0



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124 Market Street
Wilmington, NC 28401
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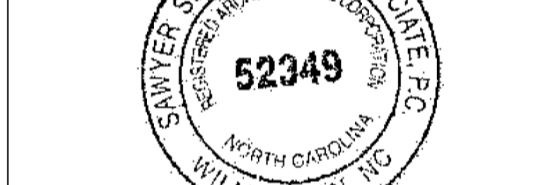
CLH DESIGN, P.A.
440 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 319-6716
Fax: (919) 319-7516
LA C-185
PE C-1585



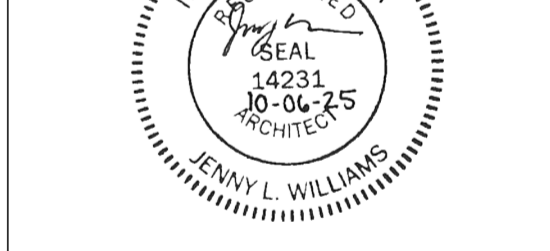
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3412 ENTERPRISE DRIVE
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FAX: (910) 452-4211
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**ReThinking
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**Pender County
Library,
Hampstead Branch**

15146 US Hwy 17
Hampstead, NC 28443

Construction Drawings

Issue Date: October 6, 2025

Life Safety Plan

Rev.	Date	Notes

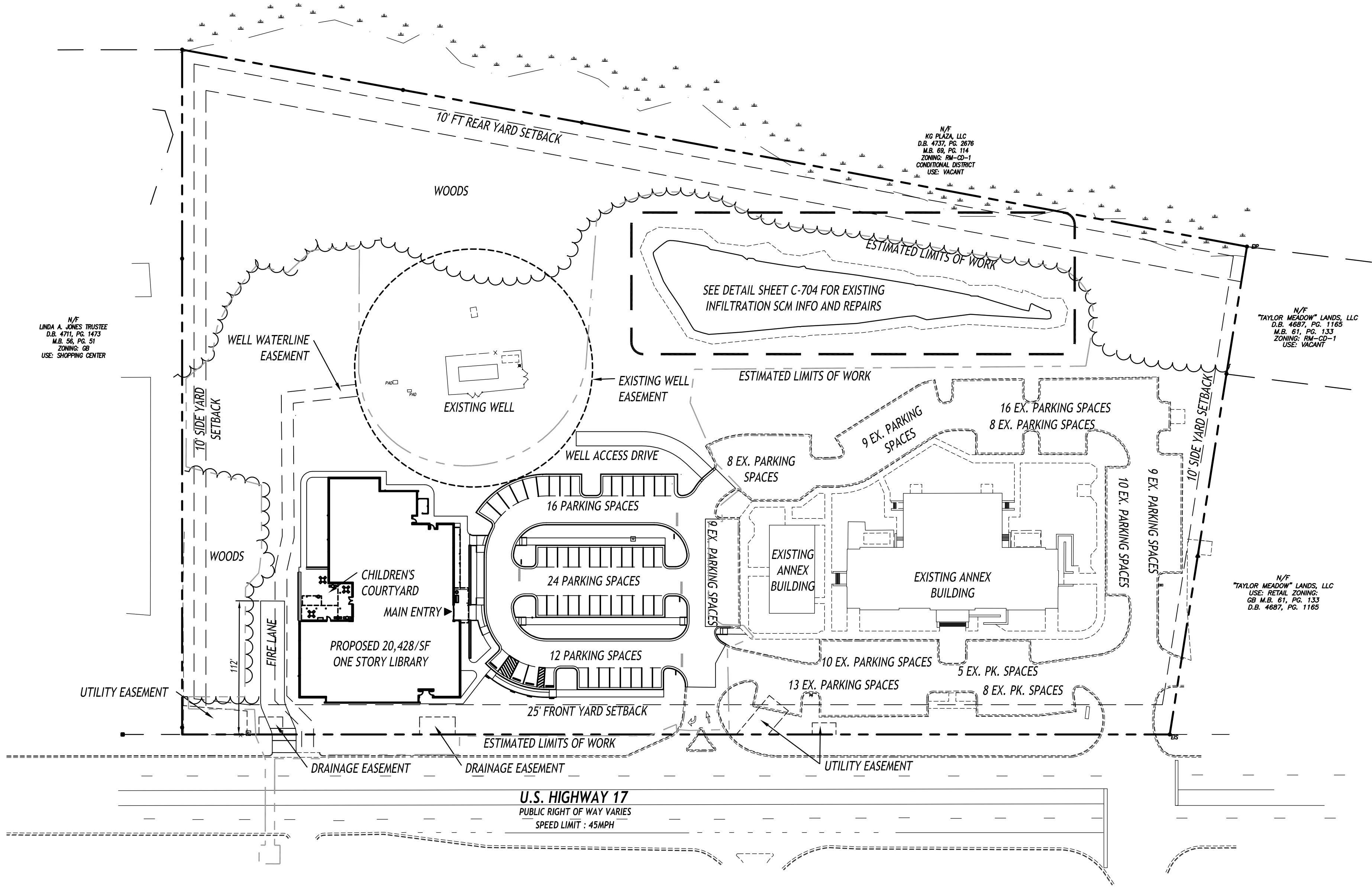
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PENDER COUNTY LIBRARY HAMPSTEAD BRANCH

15060 US HWY 17
HAMPSTEAD, NC, 28443
CONSTRUCTION DRAWINGS

OVERALL PLAN



SITE DATA

PROJECT:	PENDER COUNTY - HAMPSTEAD BRANCH LIBRARY
OWNER CONTACT:	MARGARET BLUE, INTERIM COUNTY MANAGER
ADDRESS:	805 SOUTH WALKER STREET
PHONE:	PO BOX 5, BURGAU, NC 28425
EMAIL:	910-259-1200
DESIGNER:	MBLUE@PENDERCOUNTYNC.GOV
DESIGNER CONTACT:	CLH DESIGN, PA
EMAIL:	TROY OLSON, PLA
ADDRESS:	TOLSON@CLHDESIGNPA.COM
PHONE:	REGENCY PARK
FAX:	400 REGENCY FOREST DR, SUITE 120
PROJECT ADDRESS:	CARY, NC 27516
FIN:	919-319-7516
DEED BOOK & PAGE:	919-319-7516
CURRENT ZONING:	3292-08-6686-0000
PROPOSED USE:	2317/338
DEEDED ACREAGE:	GB- GENERAL BUSINESS DISTRICT
CALCULATED ACREAGE:	CIVIC
EXISTING FLOOR AREA:	9.5 ACRES
PROPOSED GROSS FLOOR AREA:	9.83 ACRES
PROPOSED MAX BUILDING HEIGHT:	N/A
PROPOSED TOTAL IMPERVIOUS AREA:	20,428 SF
PROPOSED IMPERVIOUS PERCENTAGE:	21'-7"
DISTURBED AREA:	137,005 (3.15 AC)
RIVER BASIN:	56.0%
FLOOD ZONE:	4.1 AC
FEMA MAP:	CAPE FEAR RIVER BASIN
BUILDING / STRUCTURE SETBACKS (MIN):	FLOOD ZONE X
FROM PRIMARY STREET:	372032800K
FROM SIDE LOT:	25'
FROM REAR LOT:	10'
MAX BUILDING HEIGHT:	10'
PARKING REQUIREMENTS:	40'
EMERGENCY SERVICES:	
PARKING CODE:	7.10.01
EXISTING PARKING:	118 SPACES
DEMOT PARKING:	12
TOTAL SPACES REQ'D:	1 PER 500 SF
TOTAL SPACES PROVIDED:	40 SPACES
TOTAL H/C SPACES REQ'D:	52 SPACES
TOTAL H/C SPACES PROVIDED:	2
TOTAL PARKING FOR PARCEL:	4 H/C SPACES
SITE LIGHTING PROVIDED BY DUKE ENERGY:	170 PARKING SPACES

INDEX OF DRAWINGS

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C4.1	INITIAL EROSION PLAN
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C5.1	LANDSCAPE PLAN
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C7.1	SITE DETAILS
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C7.3	STORM DETAILS
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U9.3	PCU DETAILS 3
U9.4	PCU DETAILS 4
U9.5	PLURIS DETAILS 1

SERVICE PROVIDERS

WATER PROVIDER:	PENDER COUNTY UTILITIES
SEWER PROVIDER:	605 E FREMONT ST, BURGAU, NC 28425
ELECTRICAL PROVIDER:	910-259-1570
	PLURIS MANAGEMENT GROUP
	44 SHUCKIN STREET, STE 203, HAMPSTEAD, NC 28443
	888-758-7471
	DUKE ENERGY
	1451 MILITARY CUTOFF ROAD, WILMINGTON, NC 28403
	910-509-7321

VICINITY MAP

Hampstead Library - Pender County



APPROVED BY THE PENDER COUNTY UNIFIED DEVELOPMENT ORDINANCE ADMINISTRATOR

SIGNATURE: _____

DATE: _____

*SITE PLAN VALID FOR TWO (2) YEARS FROM APPROVAL DATE

**S A W Y E R
S H E R W O O D
& A S S O C I A T E
A R C H I T E C T U R E**

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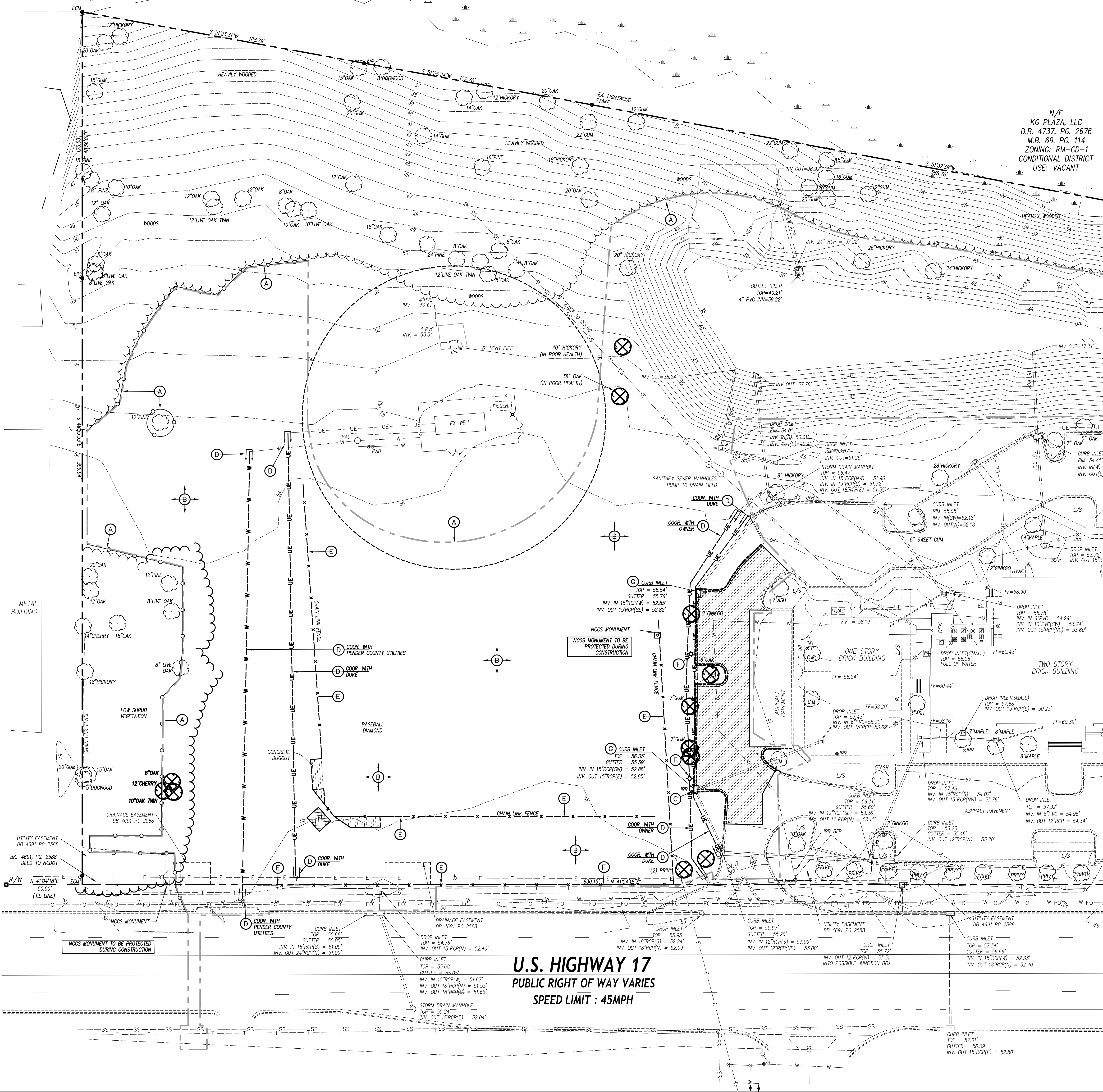
Construction Drawings

Issue Date: November 7, 2025

COVER SHEET

Rev.	Date	Notes

C0.0



EXISTING CONDITIONS AND DEMOLITION LEGEND

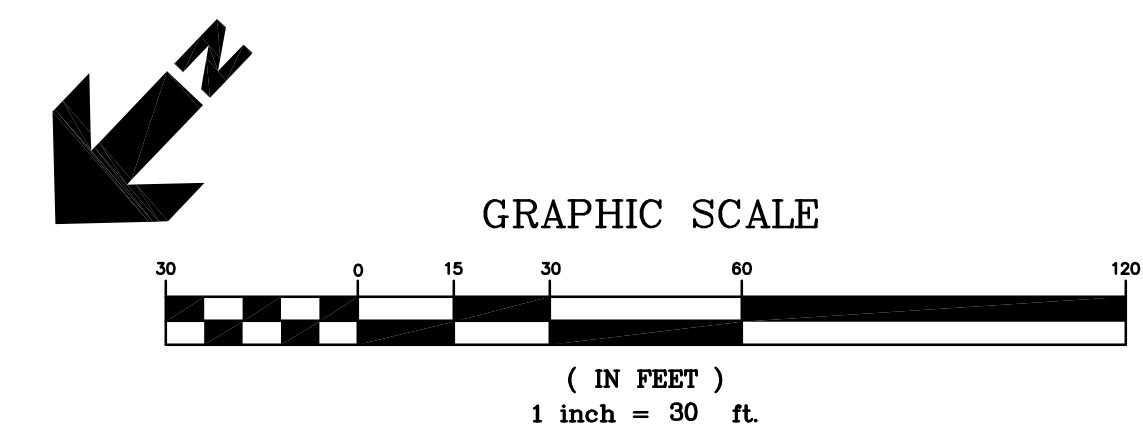
STRUCTURES/UTILITIES TO BE REMOVED	STRUCTURES/UTILITIES TO REMAIN
OVERHEAD ELECTRICAL	OVERHEAD ELECTRICAL
UNDERGROUND ELECTRICAL	UNDERGROUND ELECTRICAL
FIRE PROTECTION	FIRE PROTECTION
GAS	GAS
SANITARY SEWER	SANITARY SEWER
TELEPHONE	TELEPHONE
UNDERGROUND TELEPHONE	UNDERGROUND TELEPHONE
FIBER OPTIC	FIBER OPTIC
WATER	WATER
FORCE MAIN	FORCE MAIN
STORM DRAIN	STORM DRAIN
INDIVIDUAL TREE TO BE REMOVED	INDIVIDUAL TREE TO REMAIN
LIGHT POLE	LIGHT POLE
UTILITY POLE	UTILITY POLE
MANHOLE	MANHOLE
CLEAN OUT	CLEAN OUT
DROP INLET/CATCH BASIN	DROP INLET/CATCH BASIN
FIRE HYDRANT	FIRE HYDRANT
WATER VALVE	WATER VALVE
CONSTR./CLEARING LIMITS	PAVEMENT, S/W, C&G TO BE REMOVED.
TREE PROTECTION FENCE	BUILDING/STRUCTURE TO BE REMOVED AND DISPOSED.

EXISTING CONDITION AND DEMOLITION GENERAL NOTES

- ALL EXISTING STRUCTURES AND UTILITIES SHALL BE REMOVED AS NEEDED TO ALLOW NEW CONSTRUCTION. IN GENERAL, FEATURES INDICATED IN BOLD ON THIS PLAN SHALL BE REMOVED.
- ALL ASPHALT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT, SIDEWALK, OR CURB AND GUTTER, ETC. SIDEWALK TO BE REMOVED TO NEAREST EXISTING JOINT. ANY EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH PRE-CONSTRUCTION CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED).
- ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
- ALL WASTE MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
- EXISTING SITE BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION WAS TAKEN FROM SURVEY BY ROBERT H. GOSLEE & ASSOCIATES, P.A. PERFORMED OCTOBER 2024. THESE PLANS DO NOT ASSUME ANY LIABILITY FOR ANY EXISTING INFORMATION BOTH SHOWN AND NOT SHOWN ON THE SURVEY AND ANY CHANGES TO THE EXISTING CONDITIONS THAT MAY HAVE OCCURRED AFTER THE SURVEY WAS ISSUED. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- INSTALL TREE PROTECTION FENCING PRIOR TO BEGINNING CLEARING OPERATIONS. CLEAR AND GRUB ALL AREAS AS SHOWN AND REQUIRED TO PERMIT INSTALLATION OF NEW CONSTRUCTION PER SPECIFICATIONS AND DRAWINGS. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL WHICH WILL CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED (WHETHER OR NOT SHOWN ON THE DRAWINGS). ALL CONTRACTORS SHALL VISIT THE SITE AND OBSERVE EXISTING CONDITIONS PRIOR TO BIDDING.
- TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE INTERIOR EDGE OF CLEARING LIMITS, THE CONTRACTOR SHALL CUT 2'-FT DEEP TRENCHES ALONG THE LIMITS OF DISTURBANCE, SO AS TO CUT, RATHER THAN TEAR ROOTS.
- PRIOR TO DEMOLISHING EXISTING STRUCTURES, MAKE AN INSPECTION FOR ANY HAZARDOUS MATERIALS. CONTACT ARCHITECT IMMEDIATELY IF ANY HAZARDOUS MATERIALS ARE DISCOVERED. CAP AND REMOVE UTILITY SERVICES, FUEL TANKS AND SEPTIC SYSTEMS. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- VERIFY ALL ILLUSTRATED UNDERGROUND ELEMENTS/UTILITIES. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS/UTILITIES. NOTIFY THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS/UTILITIES ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
- CONTACT UTILITY LOCATING SERVICE AT LEAST 48-HRS PRIOR TO EXCAVATION.
- PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, REPAIR IMMEDIATELY AS DIRECTED BY THE ARCHITECT. AREAS TO BE PROTECTED, REPAIRED AND CLEANED SHALL ALSO INCLUDE ANY STAGING AREAS, ACCESS ROUTES AND OTHER EXISTING IMPROVEMENTS WITHIN THE CONSTRUCTION LIMITS THAT ARE TO REMAIN.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PENDER COUNTY AND/OR NCDOT STANDARDS AND SPECIFICATIONS.
- ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISH GRADE.
- DEMOLITION AND PATCHING OF PAVEMENT, SIDEWALK, CURB AND GUTTER AND OTHER EXISTING PAVED SURFACES IN ADDITION TO THAT INDICATED ON THIS PLAN SHALL BE PERFORMED AS REQUIRED TO CONSTRUCT AND INSTALL NEW UTILITIES. ALL SUCH DEMOLITION AND PATCHING SHALL BE INCLUDED IN THE BASE BID SCOPE OF WORK. SEE SHEET C&2 FOR PAVEMENT REPAIR DETAILS.
- THIS SITE IS NOT LOCATED WITHIN SPECIAL FLOOD HAZARD AREAS AS DETERMINED BY FEMA AND DEPICTED ON F.I.R.M. MAP 3720329200, DATED 2007 AS BEING WITHIN ZONE "X" OTHER AREA".
- NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

EXISTING CONDITION AND DEMOLITION KEY NOTES

- TEMPORARY TREE PROTECTION FENCE, SEE DETAIL SHEET C&2.
- CLEAR AND GRUB, STOP TOPSOIL WITHIN CONSTRUCTION LIMITS.
- COORDINATE REMOVAL OF IRRIGATION WITH OWNER.
- UTILITY LINE/STRUCTURE TO BE REMOVED/RELOCATED BY LOCAL UTILITY COMPANY. LOCAL UTILITY COMPANY SHALL DETERMINE THE LIMITS AND EXTENT OF REMOVAL/RELOCATION OF UTILITIES REQUIRED FOR NEW CONSTRUCTION. COORDINATE SCHEDULE AND WORK WITH LOCAL UTILITY COMPANY AND ARCHITECT/OWNER.
- FENCE TO BE REMOVED.
- EXISTING LIGHT POLES TO BE REMOVED.
- CURB INLET AND TOP 18" OF EXISTING STRUCTURE TO BE REMOVED. SEE EROSION CONTROLS AND GRADING PLANS FOR ADDITIONAL INFORMATION.



SAWYER SHERWOOD & ASSOCIATE ARCHITECTURE
124 Market Street
Wilmington, NC 28401
910 762-0892
s2a3.com

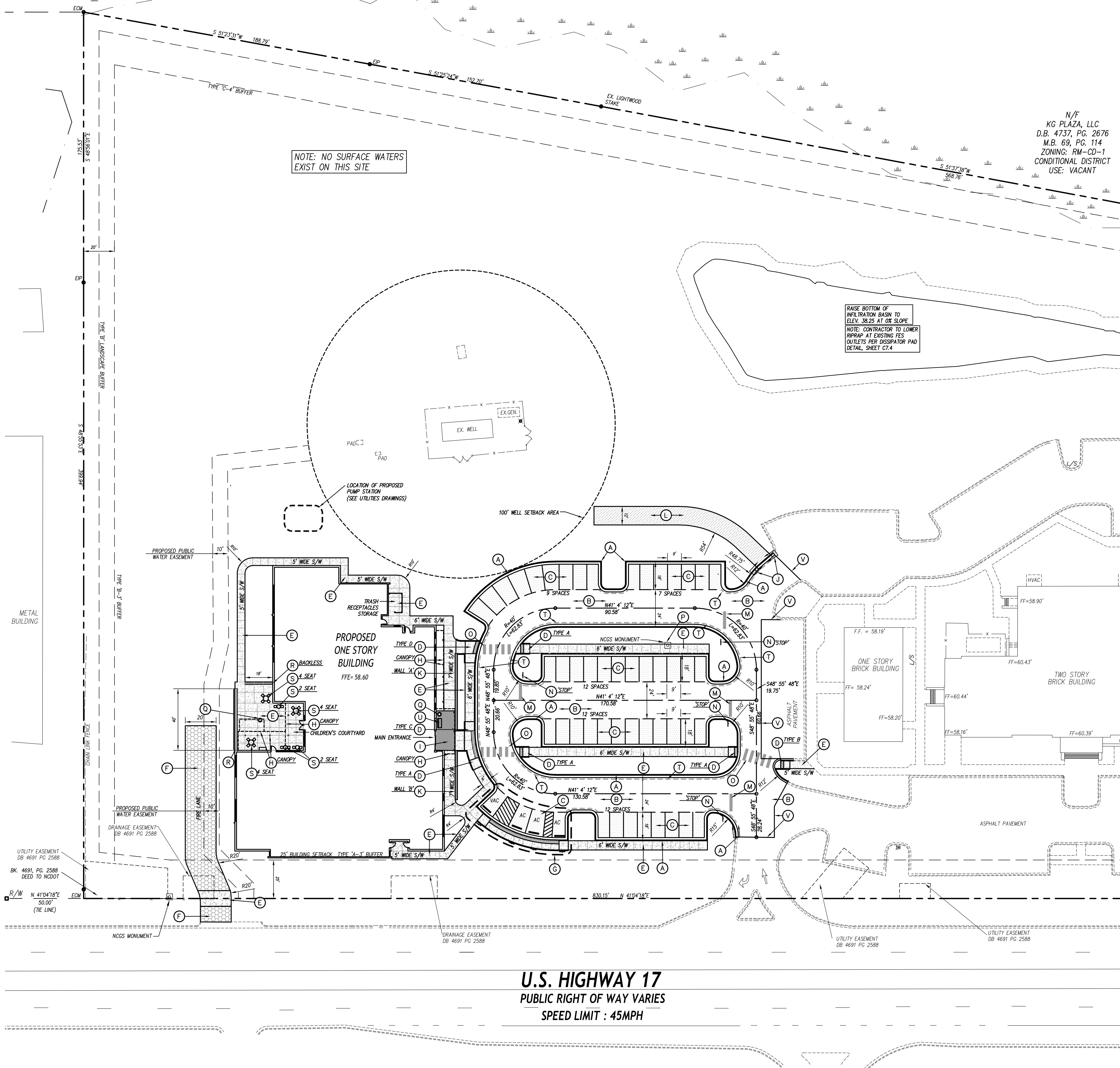
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No. 2044
11-07-25

Pender County Library
Hampstead Branch
15146 US Hwy 17
Hampstead, NC 28443
Construction Drawings
Issue Date: November 7, 2025
Site Demolition and Existing Condition Plan
Rev. Date Notes
C1.0



STAKING GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL PENDER COUNTY AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
4. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
6. ALL FACE OF CURB RADII ARE 4'-FT UNLESS OTHERWISE SHOWN.
7. ALL PARKING SPACES SHALL BE A MINIMUM OF 9'-FT WIDE X 18'-FT DEEP.
8. (AC) DENOTES ACCESSIBLE PARKING SPACE.
9. (VAC) DENOTES VAN ACCESSIBLE PARKING SPACE.
10. ANY AND ALL LANDSCAPING, EXISTING TREES OR SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
11. CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
12. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
13. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.
14. ALL SIGNAGE SHALL COMPLY WITH ARTICLE 7.11 AND ARTICLE 9 OF THE PENDER COUNTY UDO.
15. SITE SHALL COMPLY WITH ARTICLE 7.11 OF PENDER COUNTY UDO.

STAKING KEY LEGEND

- (A) 24-IN CURB & GUTTER, SEE DETAIL SHEET C7.1.
- (B) 'HEAVY' DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C7.2.
- (C) 'LIGHT' DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C7.2.
- (D) ACCESSIBLE CURB RAMP, SEE DETAIL SHEET C7.2.
- (E) CONCRETE SIDEWALK, SEE DETAIL SHEET C7.1.
- (F) GRASS PAVE FIRE LANE SEE DETAIL C7.2.
- (G) ACCESSIBLE PARKING, SEE SIGNAGE AND C7.2.
- (H) SEE ARCHITECTURAL PLANS FOR CANOPY, AND MECHANICAL SERVICE YARD.
- (I) PRECAST PAVER, SEE DETAIL SHEET C7.2.
- (J) ROLL CURB, SEE DETAIL SHEET C7.1.
- (K) VEHICLE BARRIER, SEE DETAIL SHEET C7.1.
- (L) ABC DRIVE, SEE DETAIL SHEET C7.2.
- (M) STOP BAR, SEE NOTES BELOW.
- (N) TRAFFIC CONTROL SIGNAGE, SEE NOTES BELOW.
- (O) CROSSWALK, SEE NOTE BELOW.
- (P) ENSURE SIDEWALK DOES NOT COVER MONUMENT.
- (Q) TRASH RECEPTACLE, SEE DETAIL C7.2 AND SPECS.
- (R) BENCH, SEE SPECS.
- (S) OUTDOOR TABLE, SEE SPECS.
- (T) FIRE LANE STRIPING, SHOWN FOR PRICING COORDINATE WITH LOCAL FIRE MARSHALL FOR FINAL APPROVAL.
- (U) FREE STANDING BENCH, SEE SPECS AND DETAIL C7.2.
- (V) THE PROPOSED ASPHALT TO EXISTING ASPHALT FLUSH.

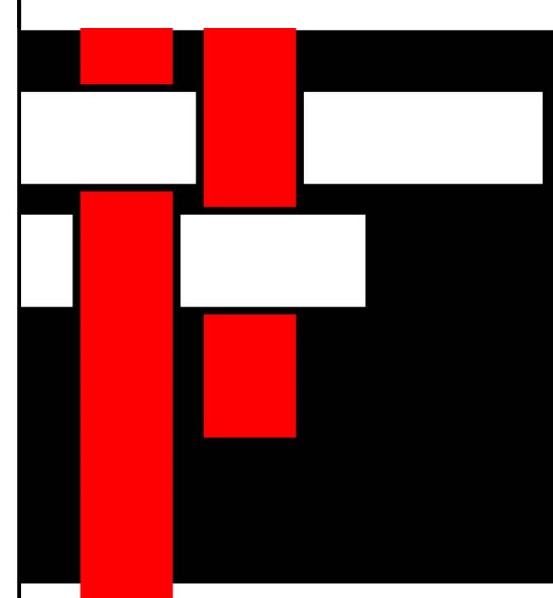
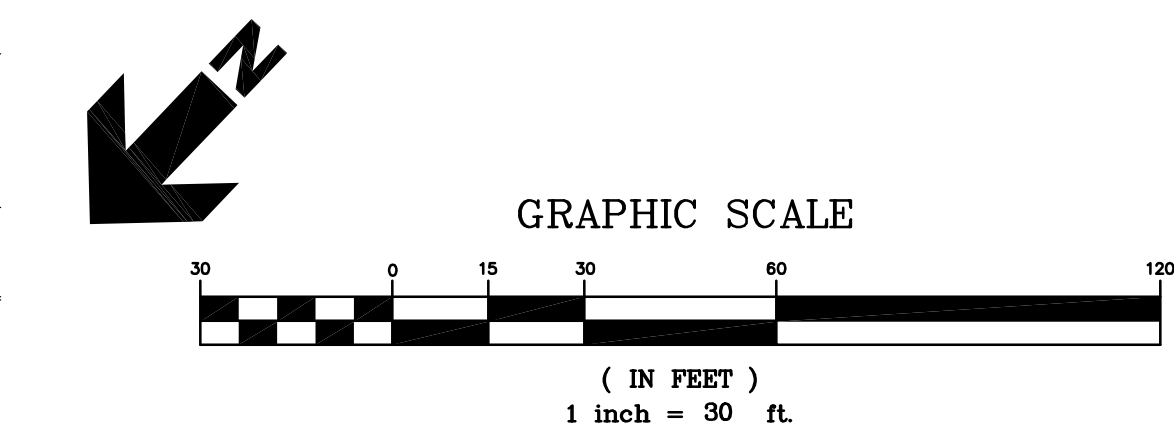
TRAFFIC CONTROL NOTES

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

SIGN	MUTCD STD.	SIZE
STOP	R1-1	30"x30"
2. ALL SIGNS SHALL BE MOUNTED WITH 7'-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3'-FT DEEP X 12-IN DIA. CONCRETE FOOTING.
3. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACES	1205.07(H-VIS)	4-IN	WHI.
CROSSWALK		24-IN	WHI.
NO PARKING - FIRE LANE *		4-IN	YEL.
DIAGONAL	1205.09	8-IN	YEL.
STOP BAR	-	24-IN	WHI.

* NO PARKING - FIRE LANE MARKING SHALL BE THERMOPLASTIC AND CONFORM TO PENDER COUNTY STANDARD SPECIFICATION 03050.D FIRE LANE STRIPING AND CONSIST OF A 4" SOLID YELLOW STRIPE AND 8" HIGH YELLOW TEXT "NO PARKING - FIRE LANE" AT 40' INTERVALS.
4. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC TYPE EXCEPT FOR PARKING SPACE LINES WHICH SHALL BE AUTO-RESIN TYPE PAINT.
5. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.
6. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
7. COORDINATE FIRE LANE MARKINGS WITH PENDER COUNTY FIRE MARSHAL.
8. ALL SIGNS SHALL USE PRISMATIC SHEETING THAT MEETS MINIMUM REFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.



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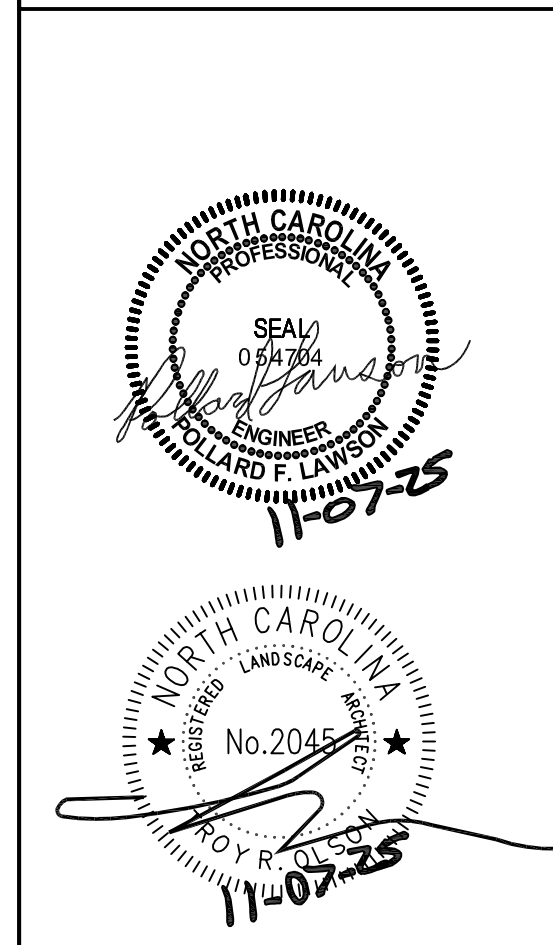
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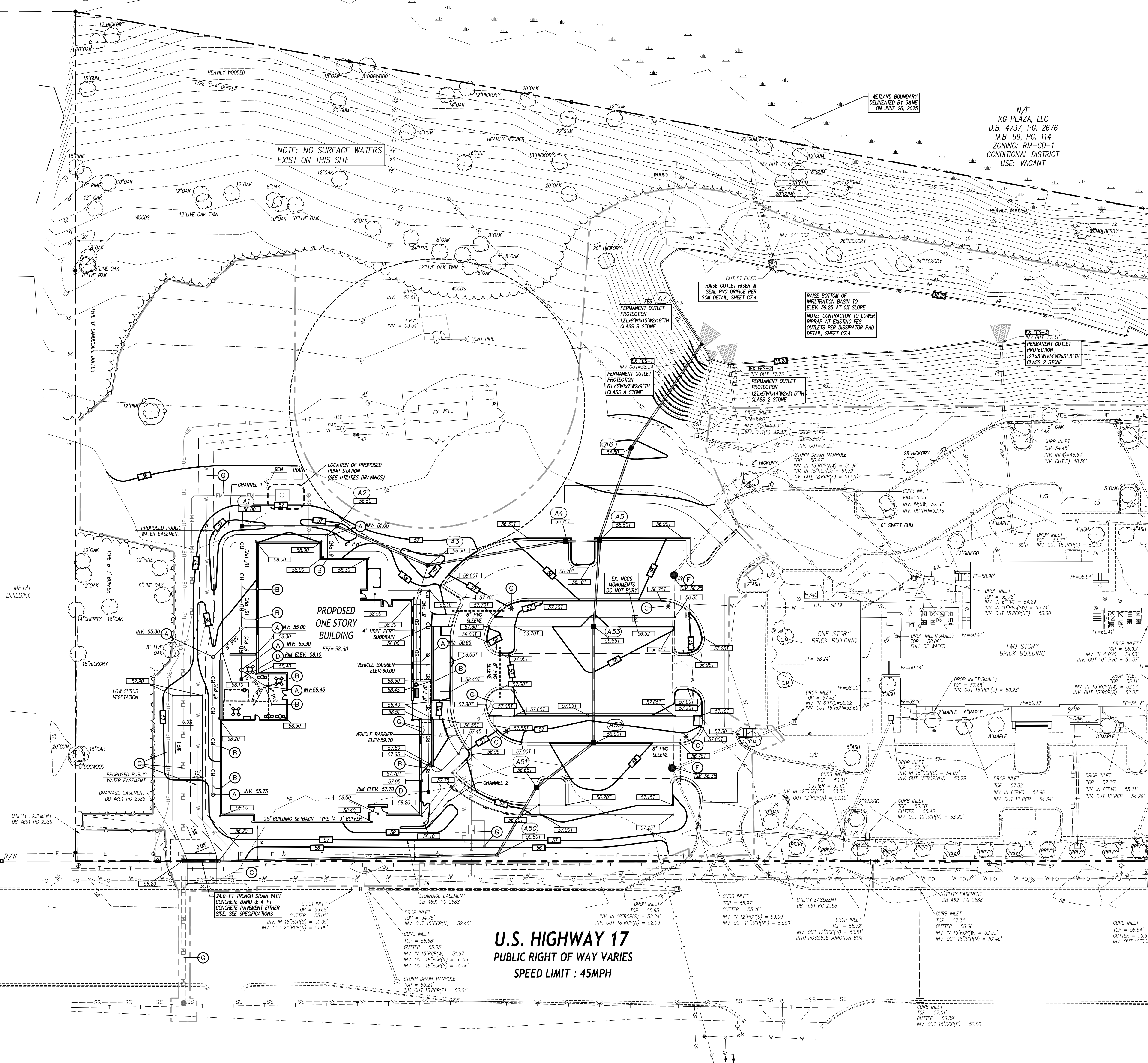
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Issue Date: November 7, 2025

Staking Plan

Rev.	Date	Notes

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GRADING LEGEND

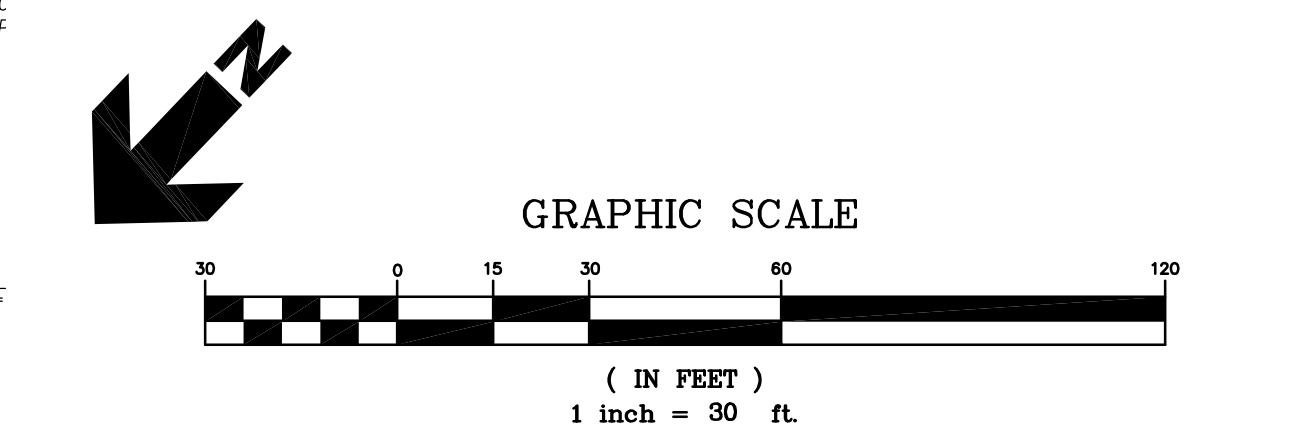
- CONSTRUCTION LIMITS
- EXISTING CONTOURS
- FINAL CONTOURS
- EXISTING SURVEY SPOT ELEVATION
- PROPOSED TOP OF CURB SPOT ELEVATION
- PROPOSED GROUND/PAVEMENT ELEVATION
- STORM STRUCTURE NUMBER
- EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- PROPOSED LOCATION OF SUBDRAIN
- PROPOSED ROOF DRAIN
- TREE PROTECTION FENCE

- GRADING GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL PENDER COUNTY AND NCDOT STANDARDS AND SPECIFICATIONS.
 - ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER AND ARE DENOTED TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
 - TOTAL DENIED AREA = 4.10 AC
 - CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
 - ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY. SEE DETAIL ON SHEET C6.2.
 - EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
 - ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
 - THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
 - THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
 - THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
 - CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS WHERE NEW CONSTRUCTION JOIN OR CONNECT TO EXISTING PAVEMENT, CURB AND OTHER RIGID STRUCTURES. NOTIFY ARCHITECT IF DISCREPANCIES OCCUR.

- DRAINAGE UTILITY NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL PENDER COUNTY AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
 - INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
 - COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CABLE.
 - VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
 - CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
 - ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSCS AND OSHA REQUIREMENTS.
 - THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION, SEE SPECS FOR ALL AS-BUILT REQUIREMENTS.
 - CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
 - SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
 - ALL ROOF DRAINS SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
 - ALL CONDENSATE LINES SHALL BE CONNECTED TO STORM DRAINAGE SYSTEM.
 - NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

- DRAINAGE KEY NOTES**
- ROOF DRAIN CLEANOUT, SEE DETAIL SHEET C7.3.
 - DOWNSPOUT CONNECTION, SEE DETAIL SHEET C7.3.
 - SITE LIGHT POLE BY DUKE ENERGY (APPROXIMATE LOCATION).
 - COORDINATE INSTALLATION & SCHEDULE WITH DUKE ENERGY.
 - INLINE DRAIN, SEE DETAIL SHEET C7.3.
 - PVC SLEEVES COORDINATE WITH DUKE AND ELECTRICAL CONSULTANT.
 - PROVIDE NEW #20 MANHOLE RIM AND COVER AND ANY BLOCKING REQUIRED TO MEET PROPOSED ELEVATIONS, SEE SPECIFICATION FOR ADDITIONAL INFORMATION.

DRAINAGE STRUCTURE SCHEDULE											
STRUCTURE NO.		PIPE	PIPE	PIPE	PIPE	UPPER	LOWER	UPSTREAM STRUCTURE DATA			
UP STRM	DN STRM	SLOPE	PIPE DIA. (IN)	PIPE LENGTH (LF)	MATRL	INV. (FT)	INV. (FT)	TOP ELEV. (FT)	DEPTH (FT)	TYPE	NOTES
A1	A2	1.00%	15	65	RCP	51.60	50.95	56.00	4.40	DI	
A2	A3	1.03%	15	68	RCP	50.70	50.00	56.50	5.80	DI	
A3	A4	1.05%	18	95	RCP	49.50	48.50	56.50	7.00	DI	
A4	A5	1.00%	24	20	RCP	48.40	48.20	55.75	7.35	CB	
A5	A6	1.06%	24	66	RCP	48.10	47.40	55.50	7.40	CB	
A6	A7	6.89%	30	86	RCP	44.00	38.25	54.50	10.50	DI	3
TD	A50	1.61%	8	186	DIP	55.20	52.20	56.20	1.00	TD	
A50	A51	1.73%	8	52	RCP	52.20	51.30	55.80	3.80	CB	
A51	A52	1.40%	15	50	RCP	51.20	50.50	56.65	5.45	CB	
A52	A53	1.01%	15	79	RCP	50.40	49.60	56.00	5.60	CB	
A53	A5	1.03%	18	58	RCP	49.50	48.90	55.85	6.35	CB	
LEGEND						NOTES					
CB	CATCH BASIN, SEE DETAIL SHEET C8.3										1. TOP ELEVATION IS TOP OF BACK OF CURB FOR CATCH BASINS, TOP OF RIM FOR DROP INLETS, AND FINISH GRADE FOR CLEANOUTS.
DI	DROP INLET, SEE DETAIL SHEET C8.3										2. ALL FEES INLETS & OUTLETS SHALL BE RCP.
FES	PRECAST FLARED END SECTION										3. DOWNSTREAM STRUCTURE IS A FES.
A2	STRUCTURE I.D. NUMBER										



SAWYER SHERWOOD & ASSOCIATE ARCHITECTURE

124 Market Street
Wilmington, NC 28401
910 762-0892
s2a3.com

CLH DESIGN, P.A.

400 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 319-6716
Fax: (919) 319-7516
LE: C-1585

CHEATHAM AND ASSOCIATES, P.A. CONSULTING ENGINEERS

3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
OFFICE: (910) 452-4210
WWW.CHEATHAMPA.COM
NC LICENSE# C-1073

WOODS ENGINEERING
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254 North Front Street
Suite 201
Wilmington, NC 28401
Phone: 910.343.8007
Fax: 910.343.8098
www.woodseng.com

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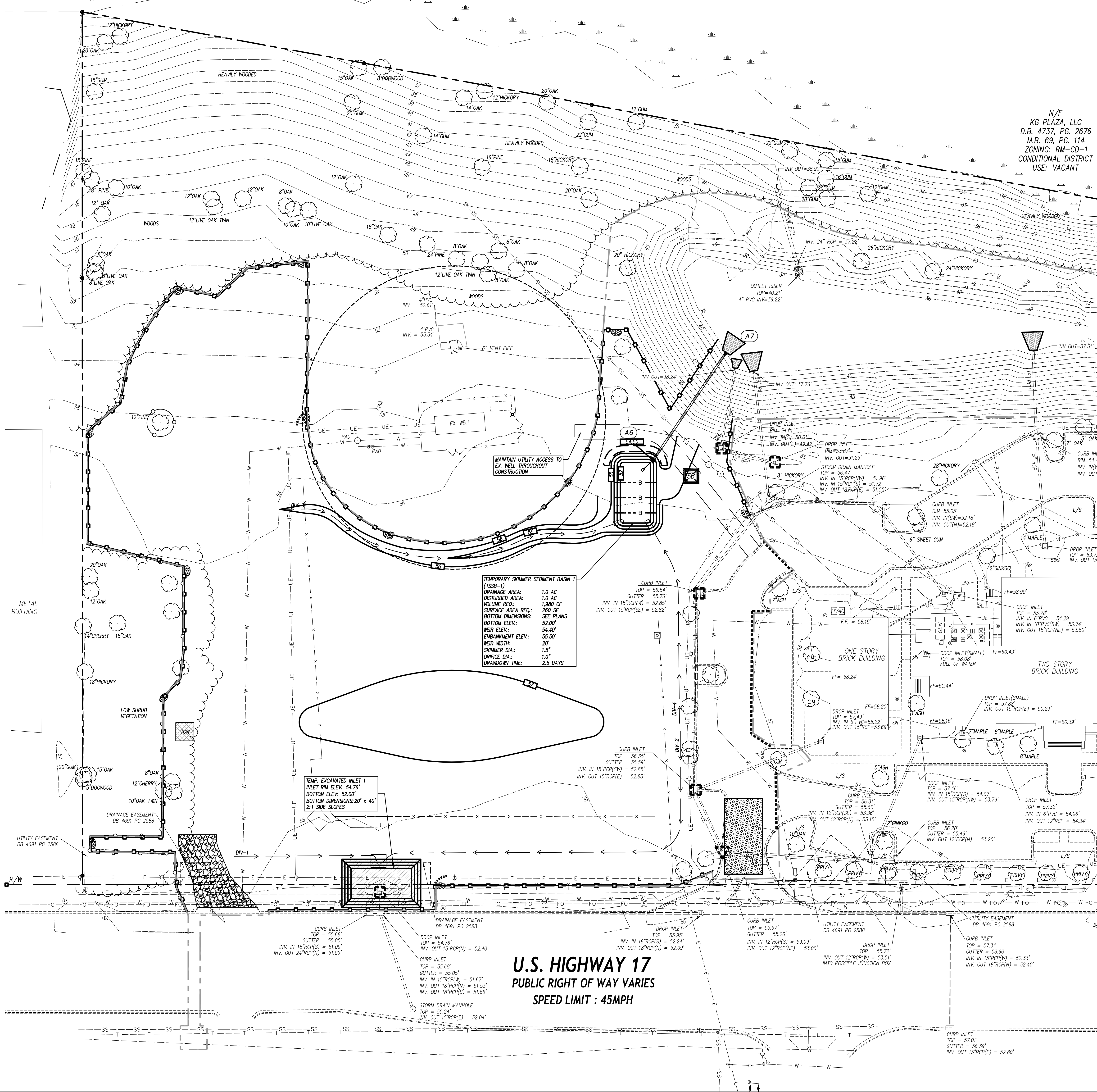
Issue Date: November 7, 2025

**Grading & Storm
Utility Plan**

Rev.	Date	Notes

C3.1

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LEGEND

	GRAVEL CONSTR. ENTRANCE, SEE DETAIL SHEET C6.2		TEMP. SKIMMER SEDIMENT BASIN, SEE DETAIL SHEET C6.3
	TEMP. INLET PROTECTION DEVICE, SEE DETAIL SHEET C6.2		TEMP. BAFFLES, SEE DETAIL SHEET C6.3
	TEMP. SILT BAG INLET PROTECTION, SEE DETAIL SHEET C6.2		EXISTING CONTOUR
	TEMP. DIVERSION DITCH / BERM, SEE DETAIL SHEET C6.3		FINISHED CONTOUR
	TEMP. SILT FENCE, SEE DETAIL SHEET C6.2		TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.)
	TEMP. REINFORCED SILT FENCE, SEE DETAIL SHEET C6.2		CHANNEL LINING, SEE DETAIL SHEET C6.2
	PERMANENT OUTLET PROTECTION, SEE DETAIL SHEET C6.2		TEMP. DEWATERING SILT BAG, SEE DETAIL SHEET C6.1
	TEMP. CONCRETE WASHOUT AREA, SEE DETAIL SHEET C6.1		TREE PROTECTION FENCE, SEE DETAIL SHEET C6.2
	TEMP. PLASTIC LINING, SEE TEMP. BASIN BAFFLES DETAIL SHEET C6.3		TEMP. COMPOST SOCK, SEE DETAIL SHEET C6.1
	TRACK-OUT MAT CONSTRUCTION ENTRANCE, SEE DETAIL SHEET C6.3		PROPOSED STORM SEWER PIPES
	TEMP. EXCAVATED INLET, SEE DETAIL SHEET C6.3		EXISTING STORM SEWER PIPES
	TEMP. REINFORCED SILT FENCE, J-HOOK, SEE DETAIL SHEET C6.3		CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.

- GENERAL NOTES**
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL PENDER COUNTY, NCEQ, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
 2. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE. SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIALS.
 3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ARCHITECT.
 4. TOTAL DISTURBED AREA: 4.10 AC.
 5. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY. SEE DETAIL SHEET C6.2.
 6. ALL STORM DRAINAGE SYSTEMS SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM. CLEANING SHALL BE PERFORMED IN A MANNER WHICH PREVENTS SEDIMENT FROM BEING FLUSHED THROUGH PIPES TO THE EXISTING DRAINAGE SYSTEM.
 7. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
 8. SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
 9. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS ISSUED. A CERTIFICATE OF OCCUPANCY (CO) SHALL BE OBTAINED PRIOR TO THE REMOVAL OF THE FENCING. THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
 10. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE COUNTY ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
 11. ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 12. INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS. SEE DETAIL SHEET C6.2 (PERMANENT CHANNEL) AND C6.1 (TEMPORARY DIVERSION DITCH) FOR TYPE OF MATTING TO USE.
 13. ANY DEWATERING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CONVERSION PURPOSES IS TO BE DONE THROUGH A SILT BAG.
 14. ANY DEWATERING OF STORM/UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
 15. GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NOTES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.
 16. CONTRACTOR SHALL USE TIRE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF CONSTRUCTION ENTRANCE IS FOUND INSUFFICIENT AT NO ADDITIONAL COST TO OWNER.
 17. CONTRACTOR SHALL UTILIZE PAM FLOCCULANTS TO REDUCE RUN-OFF TURBIDITY. SEE SPECS.

- MAINTENANCE PLAN**
1. DURING ALL PHASES OF CONSTRUCTION, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (SHEET C6.1) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
 2. FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (SHEET C6.1) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
 3. THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
 4. SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
 5. ALL OTHER SEEDD AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

SELF-INSPECTION RULES

SEE SHEET C6.1 FOR SELF-INSPECTION REQUIREMENTS.

THE CONTRACTOR (ACTING AS AN AGENT FOR THE FINANCIALLY RESPONSIBLE PERSON) SHALL PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES USING NCEM/LR'S SELF INSPECTION REPORT (WORKSHEET) AND SHALL KEEP COPIES OF INSPECTION REPORTS ONSITE.

SLOPE & SURFACE STABILIZATION

GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET C6.1.

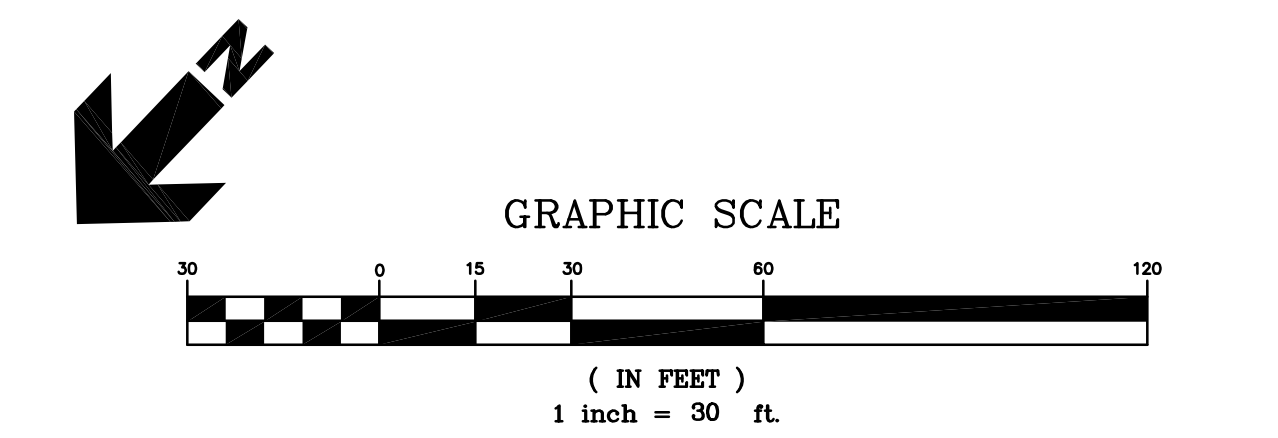
EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION 1.6(2) (b)).

THE REQUIREMENTS ON SHEET C6.1 ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED MINIMUM REQUIREMENTS.

INSTALL TEMPORARY EXCERIOR MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCONUT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

SEE SHEET C6.2 EROSION CONTROL CONSTRUCTION SEQUENCE.

SEE SHEET C6.2 EROSION CONTROL GROUND COVER PLAN FOR MORE INFORMATION.



SAWYER SHERWOOD & ASSOCIATE ARCHITECTURE

124 Market Street
Wilmington, NC 28401
910 762-0892
s2a3.com

CLH DESIGN, P.A.

400 Regency Forest Drive
Suite 120
Fayetteville, NC 28404
Phone: (910) 318-4716
Fax: (910) 318-5168
LA C-1985

CHEATHAM AND ASSOCIATES, P.A. CONSULTING ENGINEERS

3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
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WWW.CHEATHAMPA.COM
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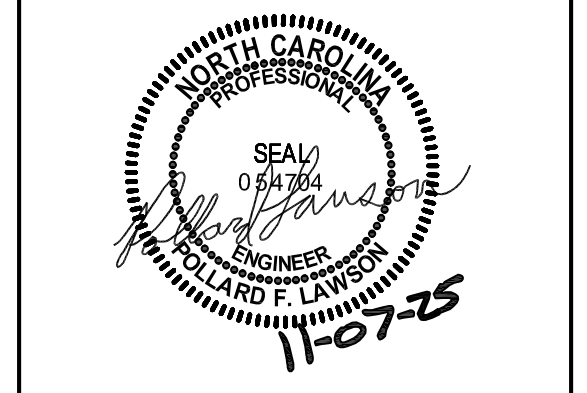
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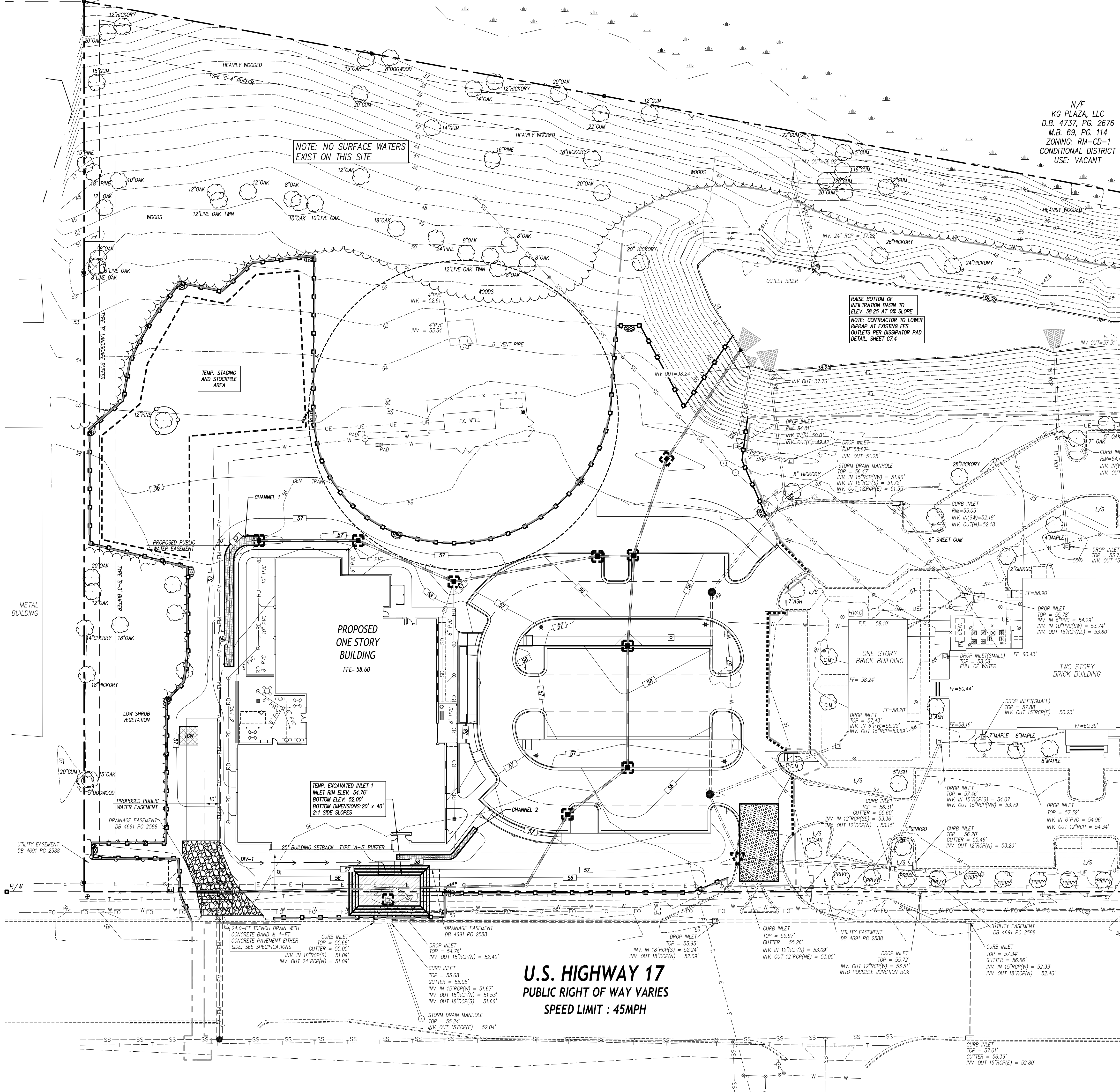
Construction Drawings

Issue Date: November 7, 2025

INITIAL
EROSION PLAN

Rev.	Date	Notes
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C4.0



LEGEND

- GRAVEL CONSTR. ENTRANCE, SEE DETAIL SHEET C6.2
- TEMP. INLET PROTECTION DEVICE, SEE DETAIL SHEET C6.2
- TEMP. SILT BAG INLET PROTECTION, SEE DETAIL SHEET C6.2
- TEMP. DIVERSION DITCH / BERM, SEE DETAIL SHEET C6.3
- TEMP. SILT FENCE, SEE DETAIL SHEET C6.2
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- CONTRACTOR SHALL UTILIZE PAM FLOCCULANTS TO REDUCE RUN-OFF TURBIDITY. SEE SPECS.

MAINTENANCE PLAN

- DURING ALL PHASES OF CONSTRUCTION, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (SHEET C6.1) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
- FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (SHEET C6.1) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
- SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
- ALL OTHER SEEDD AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

SELF-INSPECTION RULES

SEE SHEET C6.1 FOR SELF-INSPECTION REQUIREMENTS.

THE CONTRACTOR (ACTING AS AN AGENT FOR THE FINANCIALLY RESPONSIBLE PERSON) SHALL PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES USING NCEM/LR'S SELF INSPECTION REPORT (WORKSHEET) AND SHALL KEEP COPIES OF INSPECTION REPORTS ONSITE.

SLOPE & SURFACE STABILIZATION

GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET C6.1.

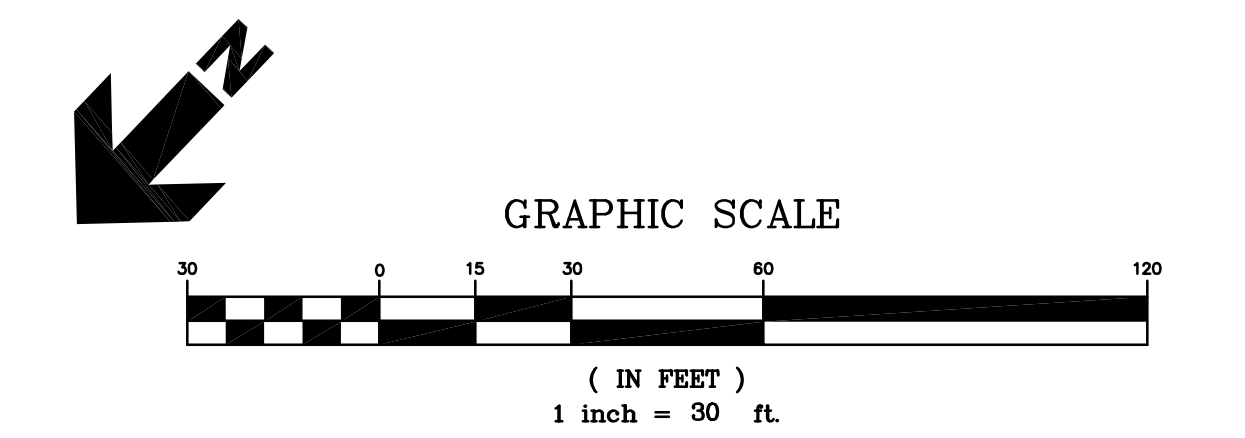
EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION 1.B(2) (b)).

THE REQUIREMENTS ON SHEET C6.1 ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED MINIMUM REQUIREMENTS.

INSTALL TEMPORARY EXCLOSURE MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

SEE SHEET C6.2 EROSION CONTROL CONSTRUCTION SEQUENCE.

SEE SHEET C6.2 EROSION CONTROL GROUND COVER PLAN FOR MORE INFORMATION.



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124 Market Street
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910 762-0892
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Suite 120
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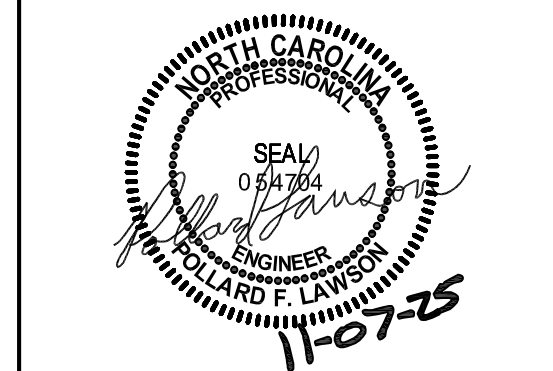
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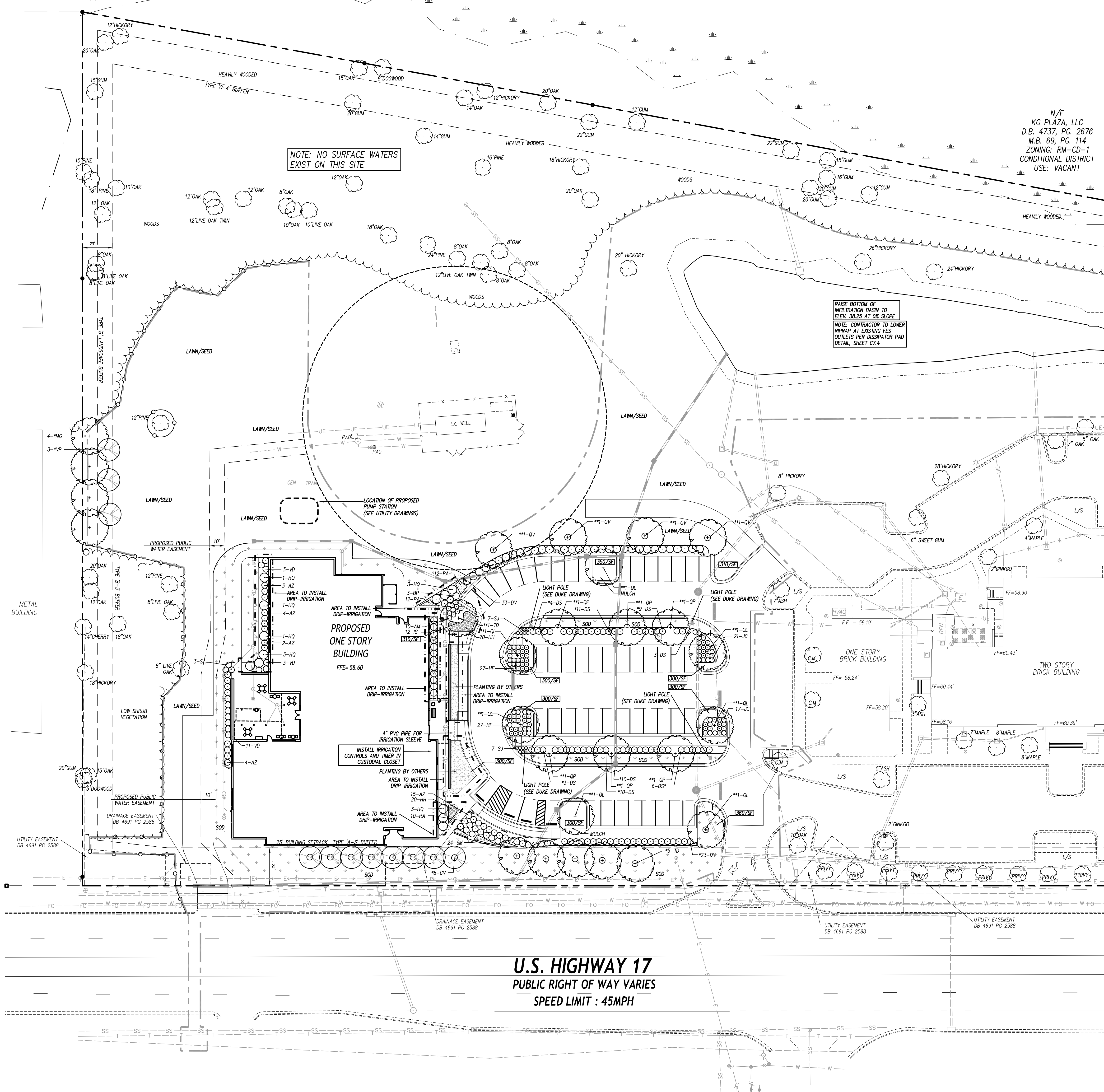
Construction Drawings

Issue Date: November 7, 2025

EROSION CONTROL PLAN

Rev.	Date	Notes

C4.1



LANDSCAPE REQUIREMENTS CALCULATIONS

REQUIRED ALONG U.S. HIGHWAY 17
BUFFER A-3: 1 CANOPY TREE AND 2 UNDERSTORY TREES WITH AT LEAST 98% LAWN
COVERAGE PER 100/LF

PROVIDED ALONG U.S. HIGHWAY 17: (*) PER 425/LF
(3) CANOPY TREES
(8) UNDERSTORY TREES

REQUIRED ALONG SIDE YARD ALONG EASTERN BOUNDARY
BUFFER B-3: 1 CANOPY TREE AND 2 UNDERSTORY TREES WITH AT LEAST 98% LAWN
COVERAGE PER 100/LF

PROVIDED ALONG SIDE YARD ALONG EASTERN BOUNDARY
TOTAL BUFFER LENGTH = 570/LF
PROVIDING 36/LF
REMAINING 476/LF CREDIT FOR EXISTING VEGETATION
(4) CANOPY TREES
(3) UNDERSTORY

REQUIRED ALONG REAR BUFFER EXISTING WOODS TO REMAIN

[XXXX/SP] AREAS OF SQUARE FOOTAGE ON PARKING LOT ISLAND PER PENDER COUNTY UDO

PLANT LIST

KEY	QTY	PLANT NAME	MIN. SIZE	REMARKS	REQ.
CANOPY TREES					
**QL	7	OVERCUP OAK <i>Quercus lyrata</i>	2.5" CAL. 10' HT. MIN.	B&B: STRAIGHT TRUNK FULL CROWN	**PARKING
**QP	6	WILLOW OAK <i>Quercus phellos</i>	2.5" CAL. 10' HT. MIN.	B&B: STRAIGHT TRUNK FULL CROWN	**PARKING
**QV	4	SOUTHERN LIVE OAK <i>Quercus virginiana</i>	2.5" CAL. 10' HT. MIN.	B&B: STRAIGHT TRUNK FULL CROWN	**PARKING
**MG	4	SOUTHERN MAGNOLIA <i>Magnolia grandiflora</i>	2.5" CAL. 10' HT. MIN.	B&B: STRAIGHT TRUNK FULL CROWN	**BUFFER A
**TD	6	BALD CYPRESS <i>Taxodium distichum</i>	2.5" CAL. 10' HT. MIN.	B&B: STRAIGHT TRUNK FULL CROWN	**BUFFER A
UNDERSTORY TREES					
*CV	8	AMERICAN FRINGETREE <i>Chionanthus virginicus</i>	1.5" CAL. 8' HT. MIN.	B&B: STRAIGHT TRUNK FULL CROWN	**BUFFER A
*VP	7	BLACKHAW <i>Viburnum prunifolium</i>	1" CAL. 6' HT. MIN.	B&B: STRAIGHT TRUNK FULL CROWN	**BUFFER A
SHRUBS					
AM	10	BLACK CHOKEBERRY <i>Aronia melanocarpa 'Low Scope Mound'</i>	12"-15" HT. CONT.	FULL PLANTS	
AZ	28	AUTUMN MOONLIGHT ENCORE AZALEA <i>Azalea x 'Autumn Moonlight'</i>	18"-24" HT. CONT.	FULL PLANTS	
BP	3	PUSTER PINKER BUTTERFLY BUSH <i>Buddleia 'Pugster Pinker'</i>	10"-24" HT. CONT.	FULL PLANTS	
DV	56	DISTYLIUM 'Vintage Jade' <i>Distylium</i>	18"-24" HT. CONT.	FULL PLANTS	
DS	53	DISTYLIUM 'Spring Frost' <i>Distylium</i>	18"-24" HT. CONT.	FULL PLANTS	**PARKING SCREEN
HQ	12	ALICE OAKLEAF HYDRANGEA <i>Hydrangea quercifolia 'Alice'</i>	24"-36" HT. CONT.	FULL PLANTS	
HF	54	ST. JOHN'S WORT <i>Hypericum frondosum 'Sunburst'</i>	12"-15" HT. CONT.	FULL PLANTS	
IS	12	SCORPIO ANISE <i>Wittum 'Scorpio'</i>	24" HT.	FULL PLANTS	
JC	38	PARSON'S JUNIPER <i>Juniperus chinensis 'Parsonii'</i>	12"-15" HT. CONT.	FULL PLANTS	
RA	10	COASTAL AZALEA <i>Rhododendron atlanticum</i>	18"-24" HT. CONT.	FULL PLANTS	
SA	3	DWARF PALMETTO <i>Sabal Minor</i>	12"-18" HT. CONT.	FULL PLANTS	
SJ	14	MAGIC CARPET SPIRAEA <i>Spiraea japonica 'Magic Carpet'</i>	12"-15" HT. CONT.	FULL PLANTS	
VD	17	DAVID VIBURNUM <i>Viburnum davidii</i>	18"-24" HT. CONT.	FULL PLANTS	
GRASSES / PERENNIALS					
HH	90	HAPPY RETURN DAYLILY <i>Emerocallis 'Happy Returns'</i>	12"-15" HT. CONT.	FULL PLANTS MATCHING: 2' O.C.	
PA	24	DWARF FOUNTAIN GRASS <i>Pennisetum alopecuroides 'Cassini'</i>	12"-18" HT. CONT.	FULL PLANTS MATCHING: 2' O.C.	
SM	24	HOT LIPS SALVIA <i>Salvia microphylla 'Hot Lips'</i>	12"-15" HT. CONT.	FULL PLANTS MATCHING: 2' O.C.	
TIF-TUF BERMUDA SOD					
				SEE DETAIL SHEET C-7.1	
TREE PROTECTION FENCE, SEE EROSION CONTROL PLANS					
SEE SHEET C7.1 FOR DETAILS AND ADDITIONAL INFORMATION. GRAPHIC SYMBOLS SUPERSEDE WRITTEN QUANTITIES WHERE DISCREPANCIES OCCUR. * PLANTS REQUIRED BY MUNICIPALITY CODE/AUD.					
CONTRACTOR TO PROVIDE 18" DEEP 50/50 MIX OF TOPSOIL AND ORGANIC COMPOST. DRIP IRRIGATION TO BE INSTALLED IN THESE AREAS. PLEASE SEE SPEC FOR ADDITIONAL INFORMATION. PLANTS AND MULCH PROVIDED BY OTHERS.					

**SAWYER
SHERWOOD
& ASSOCIATE
ARCHITECTURE**

124 Market Street
Wilmington, NC 28401
910 762-0892
s2a3.com

CLH DESIGN, P.A.
400 Regency Forest Drive
Suite 100
Wilmington, North Carolina 27918
Phone: (910) 318-4716
Fax: (910) 318-5198
LA: C-1985

**CHEATHAM AND ASSOCIATES, P.A.
CONSULTING ENGINEERS**
ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
FAX: (910) 452-4211
OFFICE@CHEATHAMPA.COM
WWW.CHEATHAMPA.COM
NC LICENSE# C-1073

**WE
WOODS ENGINEERING**
Consulting Structural Engineers
254 North Front Street
Suite 201
Wilmington, NC 28401
Phone: 910.343.8007
Fax: 910.343.8088
www.woodseng.com

**ReThinking
Libraries**
508 Villanova Ct
Fort Collins, CO 80525
317-509-3268
rethinkinglibraries.org

**NORTH CAROLINA
REGISTERED LANDSCAPE ARCHITECT**
SEAL
05/17/24
11-07-25
11-07-25

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Hampstead Branch

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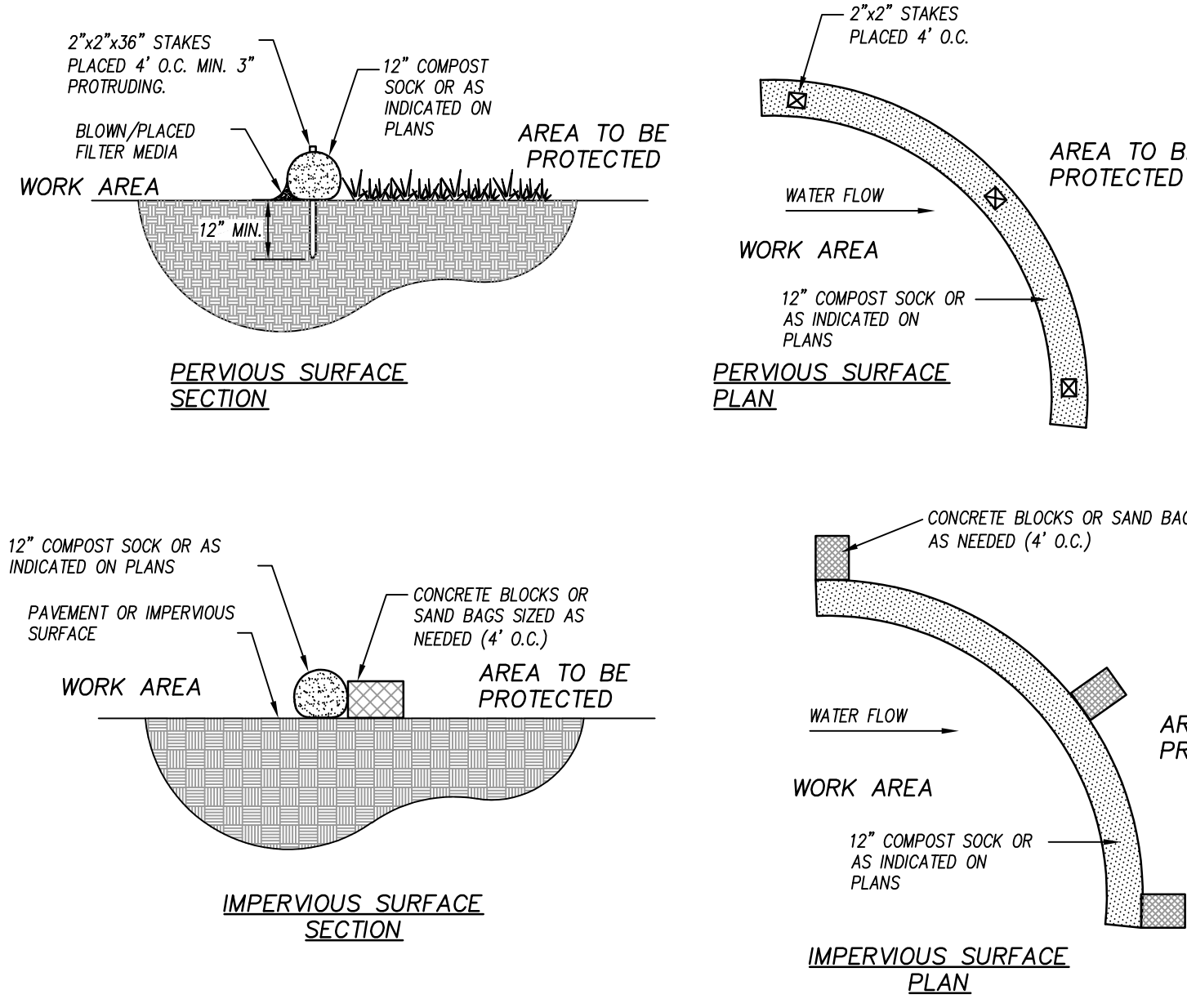
Construction Drawings

Issue Date: November 7, 2025

Landscape Plan

Rev.	Date	Notes

C5.0



NOTES:

1. MATERIALS TO BE FILTREXY OR APPROVED EQUAL.
2. ALL MATERIAL AND INSTALLATION TO MEET STATE AND LOCAL SPECIFICATIONS.
3. COMPOST SOCKS SHALL BE INSTALLED PARALLEL TO THE SLOPE OR OTHER AFFECTED AREAS, PERPENDICULAR TO SHEET FLOW. COMPOST SOCKS ARE EFFECTIVE IN AREAS WHERE SEDIMENT ACCUMULATION OF LESS THAN SIX INCHES IS EXPECTED.
4. COMPOST SOCKS CAN BE APPLIED ON SLOPES UP TO A 2:1 GRADE WITH A MAXIMUM HEIGHT OF 10 FEET. COMPOST SOCK SHOULD NOT BE USED ALONE BELOW GRADED SLOPES GREATER THAN 10 FEET IN HEIGHT.
5. 2"x2" OAK OR OTHER DURABLE HARDWOOD STAKES SHALL BE USED. STAKES SHALL BE PLACED AT A MAXIMUM INTERVAL OF 4 FEET, OR A MAXIMUM INTERVAL OF 8 FEET IF THE SOCK IS PLACED IN A 4 INCH TRENCH. STAKES SHALL BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCKS.
6. COMPOST SOCKS SHALL BE SLEEVED WHEN SECTIONS LONGER THAN 200'-0" ARE REQUIRED. STAKES SHALL BE PLACED ON SLEEVED AREAS TO KEEP SECTIONS TOGETHER.
7. IN THE EVENT STAKING IS NOT POSSIBLE (I.E., WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS OR SAND BAGS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING RUNOFF EVENTS.
8. COMPOST SOCK SHOULD BE PLACED AT A 10 FOOT MINIMUM DISTANCE FROM THE TOE OF THE SLOPE TO ALLOW FOR A PROPER RUNOFF ACCUMULATION AND MAXIMUM SEDIMENT STORAGE. ON FLAT AREAS, COMPOST SOCK SHALL BE PLACED AT THE EDGE OF DISTURBED AREAS.
9. THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.

MAINTENANCE NOTES:

1. INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2" INCH OR GREATER).
2. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED 1/2 THE HEIGHT OF THE CHECK DAM.
3. THE COMPOST SOCK MUST BE REPLACED IF CLOSED OR TORN.
4. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
5. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLOGED.
6. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

TEMPORARY COMPOST SOCK PERIMETER FENCE

N.T.S.

CONSTRUCTION SEQUENCE

1. INITIAL EROSION CONTROL INSTALLATION
2. EROSION AND SEDIMENT CONTROL (E&S) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR. OBTAIN APPROVED PLAN AND APPROVAL PLACARD. A COPY OF THE APPROVED PLAN MUST BE ON FILE AT THE JOB SITE. NOTIFY EROSION CONTROL AUTHORITIES OF PROPOSED STARTING DATE OF LAND DISTURBING ACTIVITIES.
3. EROSION AND SEDIMENT CONTROL (E&S) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES (INCLUDING TIMBERING AND DEMOLITION) OCCUR.
4. INSTALL TREE PROTECTION FENCING.
5. CONTACT NC DEQ LOS RALEIGH OFFICE AT 919-791-4200 TO SCHEDULE PRE-CONSTRUCTION MEETING AT LEAST 72 HOURS PRIOR TO PROJECT ACTIVATION.
6. THE CONTRACTOR SHALL CONDUCT SELF-INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES AND COMPLETE THE FOLLOWING COMBINED SELF-INSPECTION FORM FOUND ON THE DEQ.WEBSITE: <https://deq.nc.gov/about/divisions/energy-mineral-land-resources/erosion-sediment-control/forms>. TWELVE MONTHS OF COMPLETE INSPECTION FORMS SHALL BE KEPT ON-SITE AND AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS RECOMMENDED A COPY BE KEPT IN A PERMITS BOX.
7. THE FOLLOWING MUST BE KEPT ON SITE UNTIL THE E&S PLAN HAS BEEN CLOSED OUT BY LAND QUALITY, RAIN GAUGE, A COPY OF APPROVED E&S PLAN WITH APPROVAL CERTIFICATE/LETTER, COC, AND NPDES PERMIT WITH A MINIMUM OF MOST RECENT 30 DAYS OF SELF-INSPECTION RECORDS (SEE SELF-INSPECTION REQUIREMENTS BELOW). THESE ITEMS SHOULD BE LOCATED NEAR THE MAIN CONSTRUCTION ENTRANCE, FAILURE TO MAINTAIN THESE ON-SITE VIOLATES THE NPDES PERMIT.
8. CONTACT THE NC DEQ LOS FAYETTEVILLE OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITIES.
9. INSTALL CONSTRUCTION ENTRANCES AND PERIMETER SILT FENCES. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
10. INSTALL AND STABILIZE TEMPORARY SUMMER SEDIMENT BASIN 1. TEMP. EXCAVATED INLET 1, TEMPORARY DIVERSIONS, AND CULVERT AB-AT-AS SHOWN ON THE INITIAL INSTALLATION EROSION CONTROL PLANS. ALL TEMPORARY BASINS AND DIVERSIONS SHALL BE SEEDED AND MULCHED UPON INSTALLATION. INFORMATION FOR THE CULVERT IS ON SHEET C301.
11. BASINS SHALL BE IDENTIFIED IN THE FIELD WITH PERMANENT SIGNAGE THAT CORRESPONDS TO THE BASIN NUMBERS ON DRAWINGS. SILT FENCE OUTLETS SHALL BE IDENTIFIED BY PAINT NUMBERS ON ADJACENT SILT FENCE CORRESPONDING TO OUTLET NUMBERS.
12. STOCKPILES, LAYDOWN OR WASTE AREAS, CONCRETE WASHOUTS, PORTABLE TOILETS, AND FUELS MUST BE LOCATED AT LEAST 50 FEET AWAY FROM ANY OPEN WATER CONVEYANCES, SUCH AS BASINS, DITCHES, STORM DRAIN INLETS, ETC. THE LOCATION OF THESE ACTIVITIES MAY BE FIELD ADJUSTED IF THE DISTANCE REQUIREMENTS ARE MET.
13. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT. UPSTREAM AND DOWNSTREAM BASIN SLOPES SHALL BE LINED WITH A SUITABLE RECP AFTER SEEDING.
14. ESTABLISH TEMPORARY CONSTRUCTION TRAILERS WITHIN STAGING AREA.
15. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED.
16. CALL FOR INSPECTION OF INSTALLED DEVICES.

CONSTRUCTION EROSION CONTROL & MAINTENANCE

1. CLEAR AND GRUB WITHIN CONSTRUCTION LIMITS.
2. STRIP TOPSOIL, STOCKPILE TOPSOIL WITHIN TEMPORARY STOCKPILE LIMITS. MAINTAIN ALL SILT FENCE AROUND TEMPORARY STOCKPILES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
3. INSTALL AND STABILIZE TEMPORARY EROSION CONTROL MEASURES AS DETAILED ON THE GRADING PLAN PRIOR TO ANY GRADING OPERATIONS. STORM DRAINAGE SYSTEM SHALL BE INSTALLED IN DRY CONDITIONS. INSTALL INLET AND OUTLET PROTECTION DEVICES AS STORMWATER DEVICES ARE CONSTRUCTED. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
4. BEGIN ROUGH GRADING OPERATIONS.
5. INSTALL SLOPE PROTECTION BLANKETS AND TEMPORARILY SEED STEEP SLOPES AS THEY ARE ESTABLISHED AT FINISH GRADE. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
6. RESPAED TOPSOIL, INSTALL SLOPE PROTECTION BLANKETS AND VEGETATE STEEP SLOPES AS THE ARE ESTABLISHED. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
7. VEGETATE (OR OTHERWISE STABILIZE WITH PAVEMENT, BUILDING PAD ETC.) IMMEDIATELY TO ALL DISTURBED AREAS AS SHOWN IN SLOPE AND STABILIZATION NOTES. MAINTAIN THROUGHOUT THE DURATION OF THE PROJECT. SEED STABILIZATION NOTES AND NPDES TIME TABLE.
8. MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION.

REMOVAL OF EROSION CONTROL DEVICES

1. WHEN THE PROJECT IS COMPLETE, THE PERMITTEE SHALL CONTACT DEMAR TO CLOSE OUT THE E&S PLAN. CALL FOR INSPECTION OF STABILIZED SITE. SEED AND MULCH SLOPE OF ALL DISTURBED AREAS REMAINING ON SITE. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
2. REMOVE TEMPORARY CONSTRUCTION ENTRANCES, CONTRACTOR STAGING AREA AND ANY REMAINING TEMPORARY MATERIAL STOCKPILES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
3. CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, REMAIN ALL REMAINING TEMPORARY EROSION CONTROL MEASURES. SEED AND MULCH ANY REMAINING DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
4. PERFORM AS-BUILT TOPOGRAPHIC SURVEYS OF SITE UTILITIES AS REQUIRED FOR CERTIFICATE OF OCCUPANCY CERTIFICATIONS.
5. WHEN THE PROJECT IS COMPLETE, THE PERMITTEE SHALL CONTACT DEMAR TO CLOSE OUT THE E&S PLAN. AFTER DEMAR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, WA INSPECTION REPORT, THE PERMITTEE SHALL VISIT deq.nc.gov/nc001 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (e-NOT). A \$100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE e-NOT HAS BEEN FILLED OUT.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	1. Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual day rainfall information is available, record the cumulative rain measurement for those unattended days (are this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&S Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Indication of whether the measures were operating properly. 5. Description of maintenance needs for the measure. 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits. 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetland on-site or off-site (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item 2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading/installation of perimeter E&S measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART II, SECTION G, ITEM (4)

DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (a) The E&S plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&S plan authority has approved these items.
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item 2)(c) and (d) of this permit.
- (c) Dewatering devices are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sized, designed and maintained dewatering tanks, weir tanks, and filtration systems.
- (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in item (c) above.
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- (f) Sediment removed from the dewatering treatment devices described in item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&S Plan Documentation

The approved E&S plan as well as any approved deviation shall be kept on the site. The approved E&S plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&S plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&S measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&S plan.	Initial and date each E&S measure on a copy of the approved E&S plan or complete, date and sign an inspection report that lists each E&S measure shown on the approved E&S plan. This documentation is required upon the initial installation of the E&S measures or if the E&S measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&S plan.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&S measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&S measures.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&S plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- (c) Documentation to be Retained for Three Years
All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]



PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none">• Within 24 hours, an oral or electronic notification.• Within 7 calendar days, a report that contains a description of the sediment and action taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.• If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring. Inspections or report more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of 100 (a) above	<ul style="list-style-type: none">• Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.• A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none">• Within 24 hours, an oral or electronic notification.• Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none">• Within 24 hours, an oral or electronic notification.• Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(i)(7)]	<ul style="list-style-type: none">• Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(i)(6)].• Division staff may waive the requirement for a written report on a case-by-case basis.



SAWYER SHERWOOD & ASSOCIATE ARCHITECTURE

124 Market Street
Wilmington, NC 28401
910 762-0892
s2a3.com

CLH DESIGN, P.A.

400 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 319-6716
Fax: (919) 319-7216
P.E. C-1066

CHEATHAM AND ASSOCIATES, P.A. CONSULTING ENGINEERS

WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
FAX: (910) 452-4211
OFFICE@CHEATHAMPA.COM
WWW.CHEATHAMPA.COM
NC LICENSE# C-1073

WOODS ENGINEERING
Consulting Structural Engineers

254 North Front Street
Suite 201
Wilmington, NC 28401

Phone: 910.343.8007
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Hampstead Branch**

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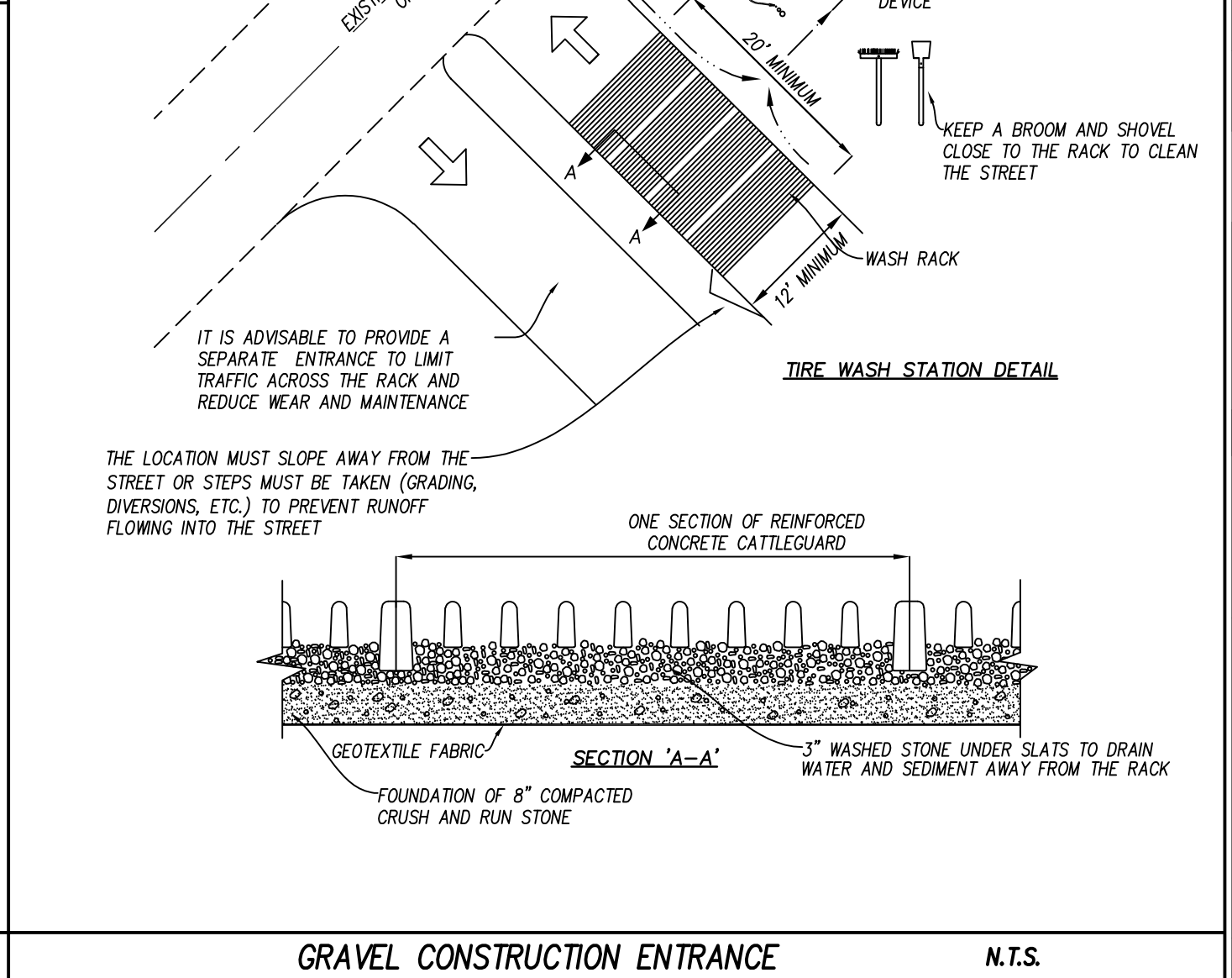
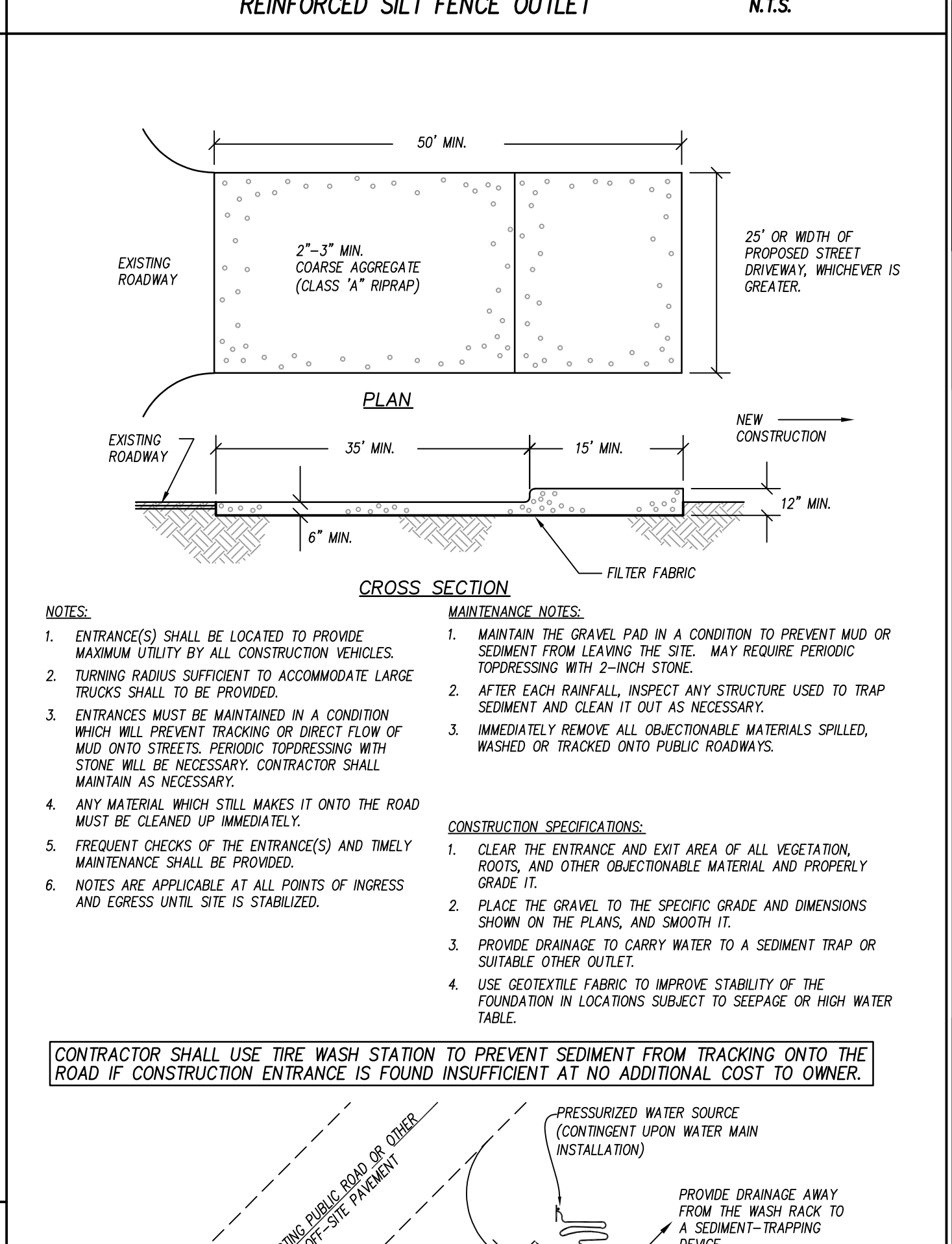
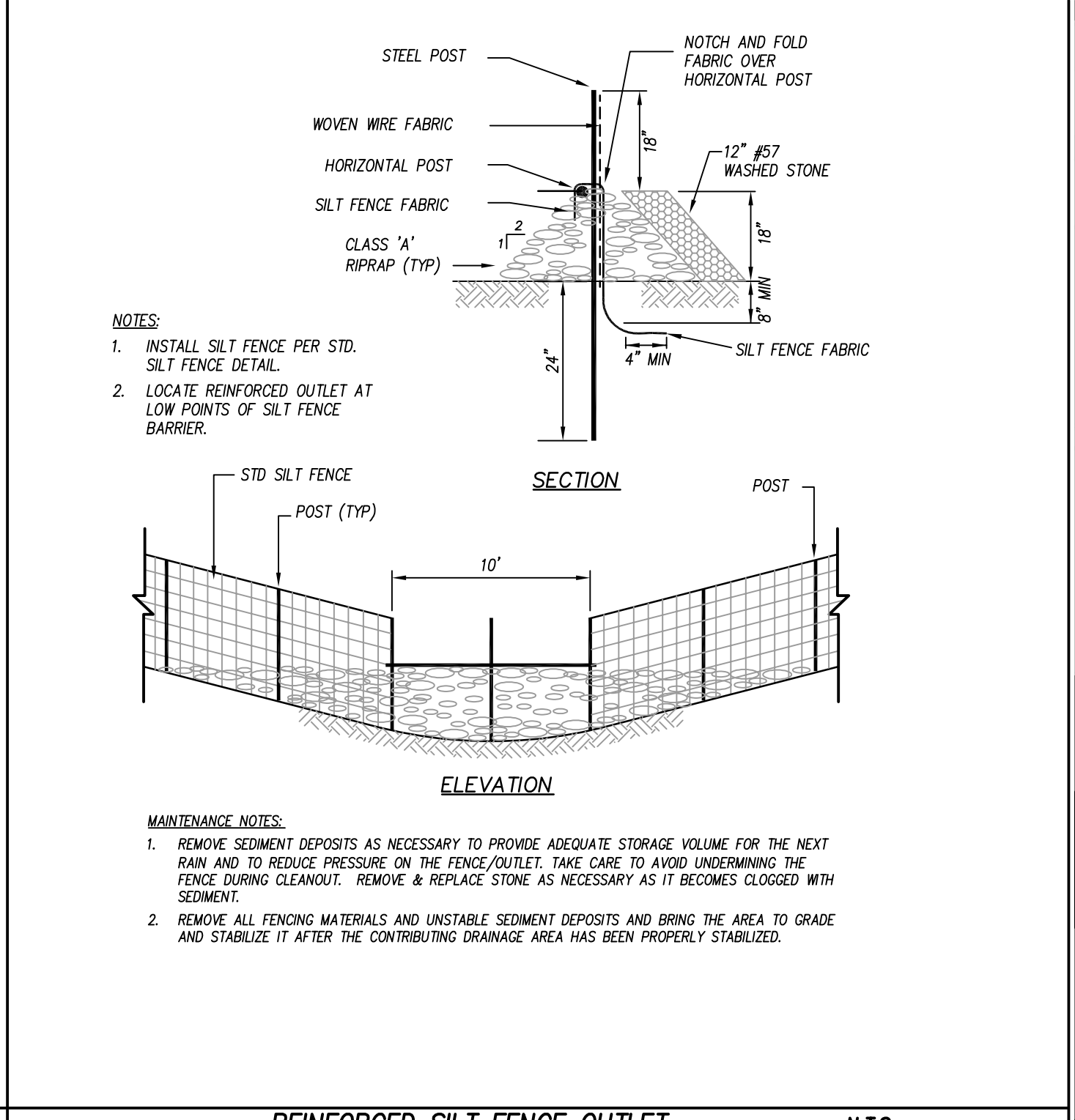
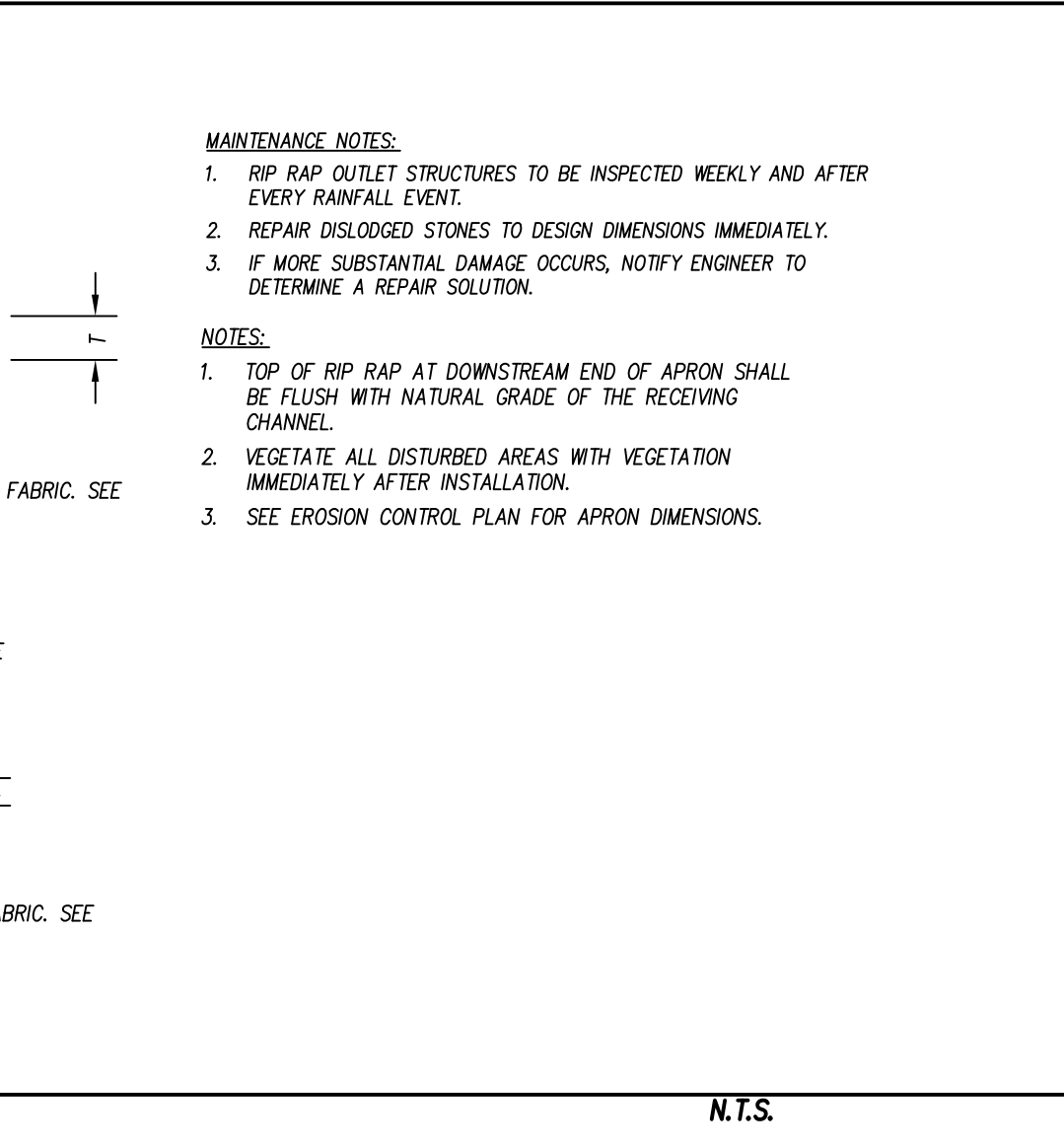
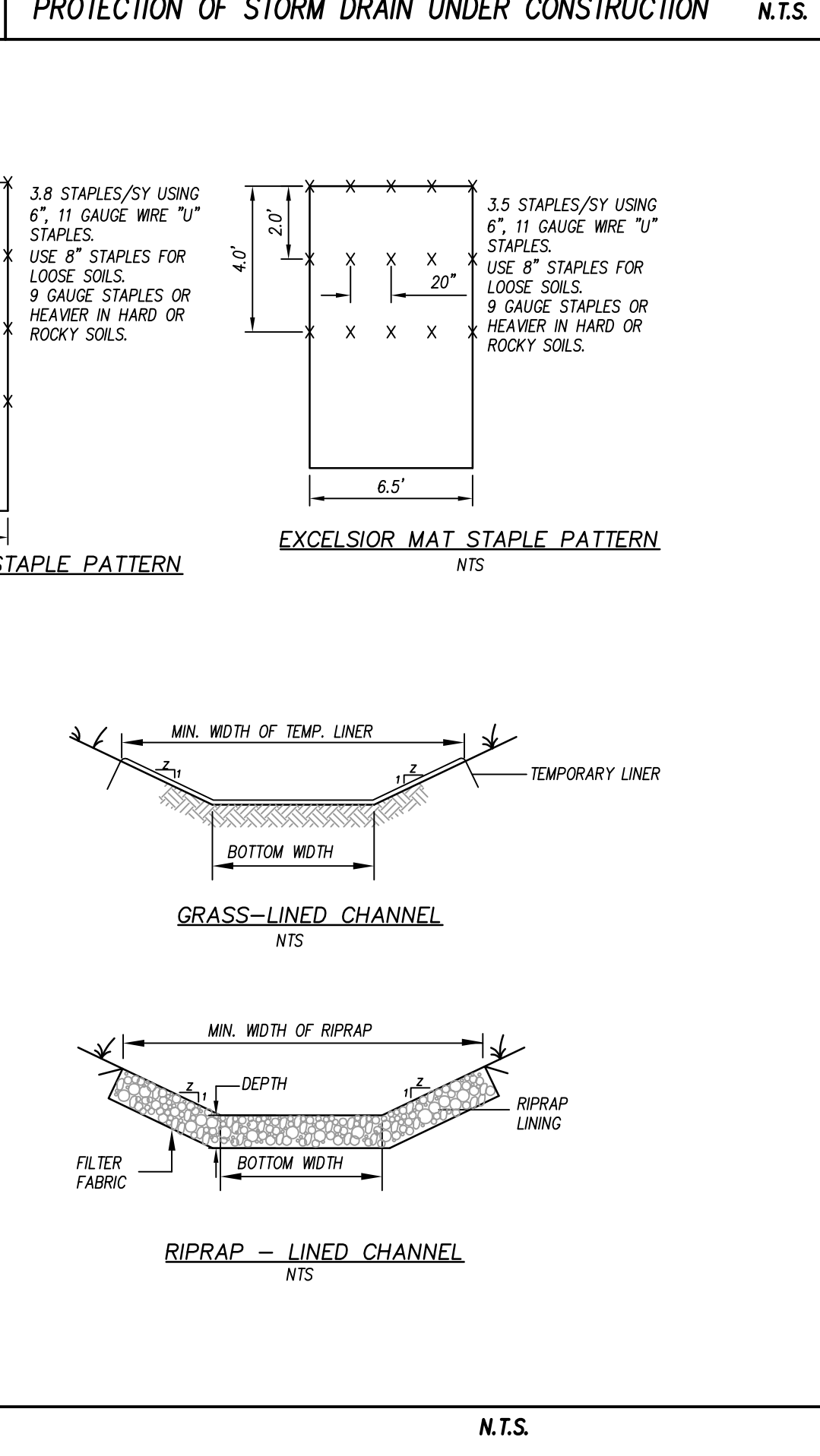
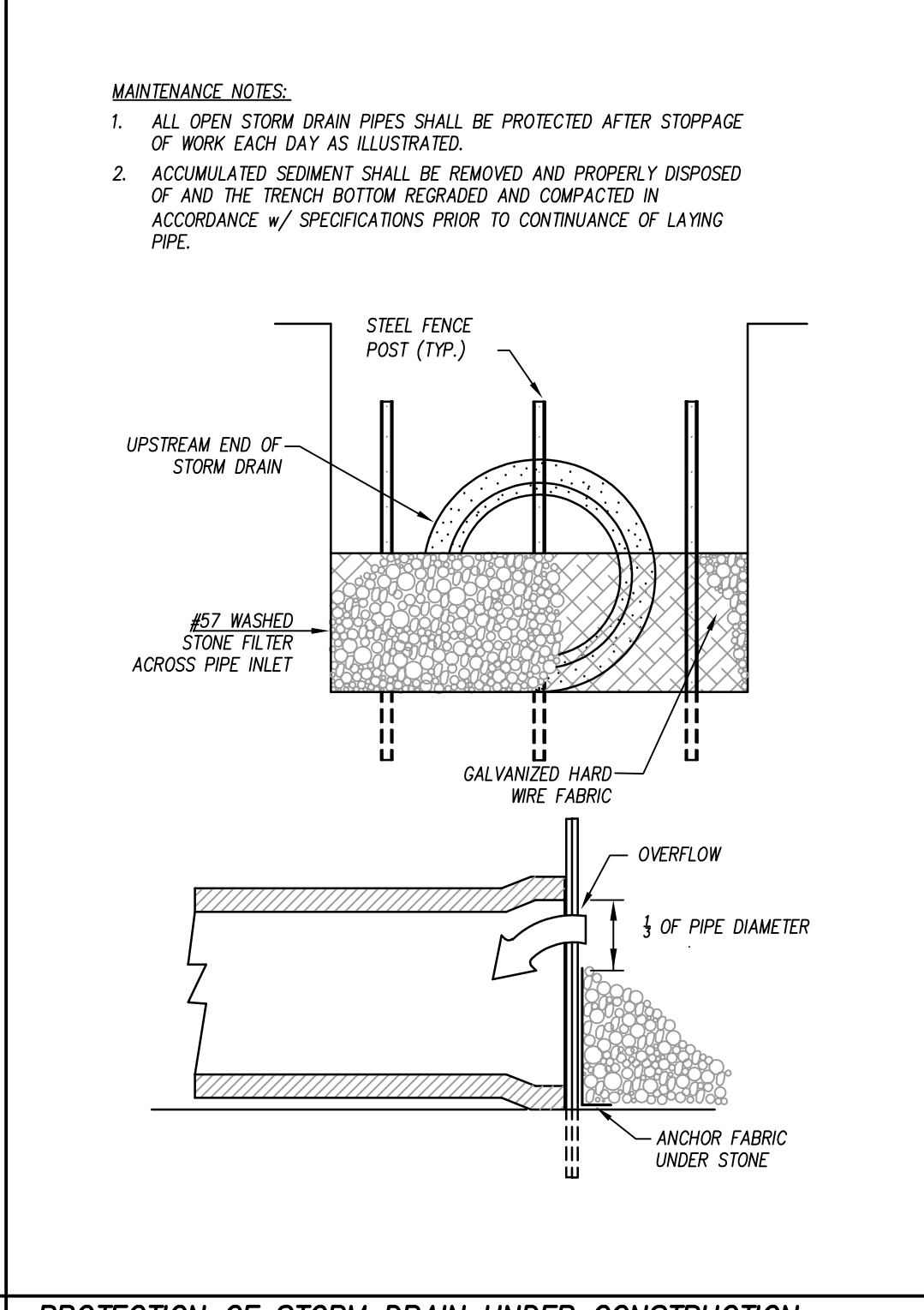
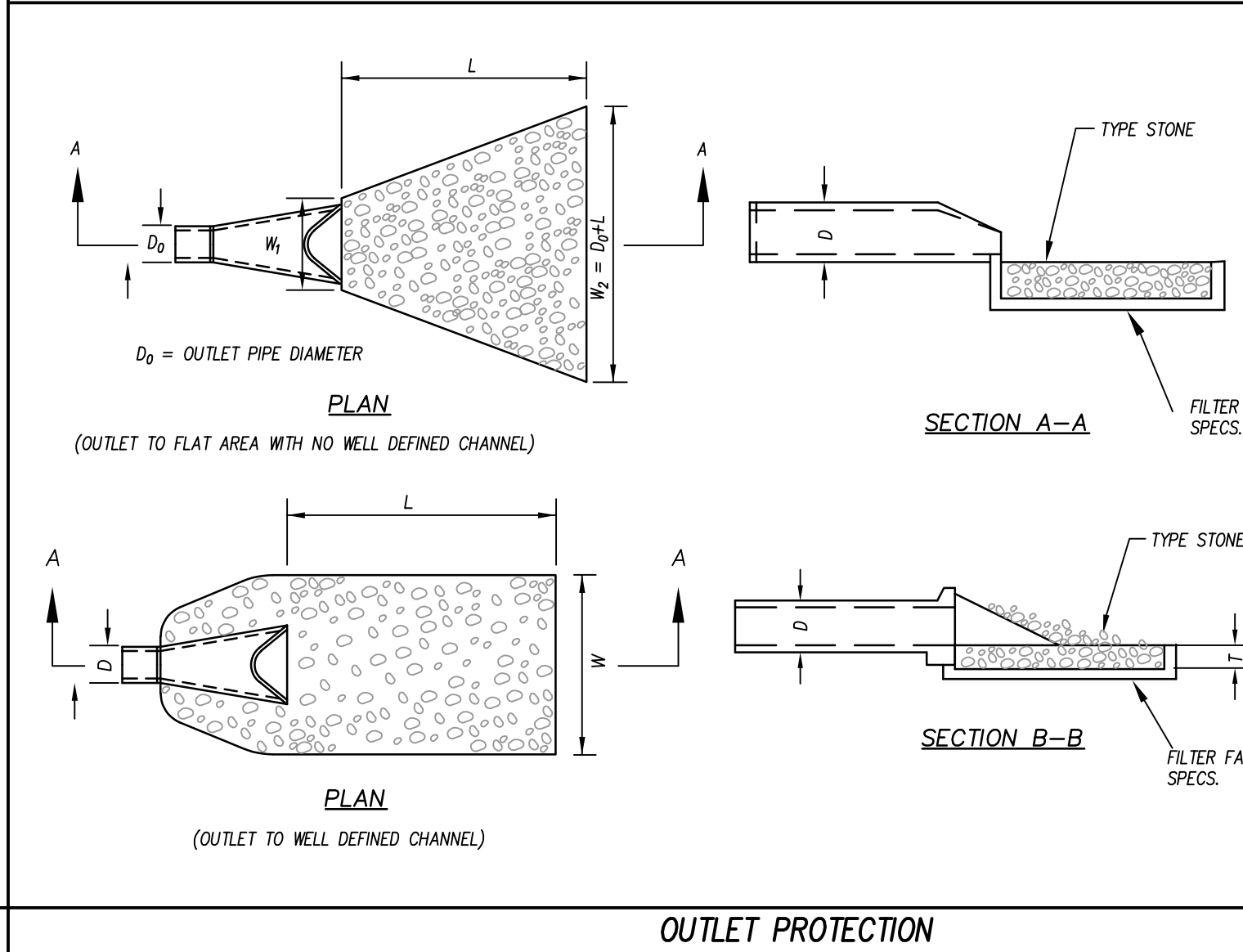
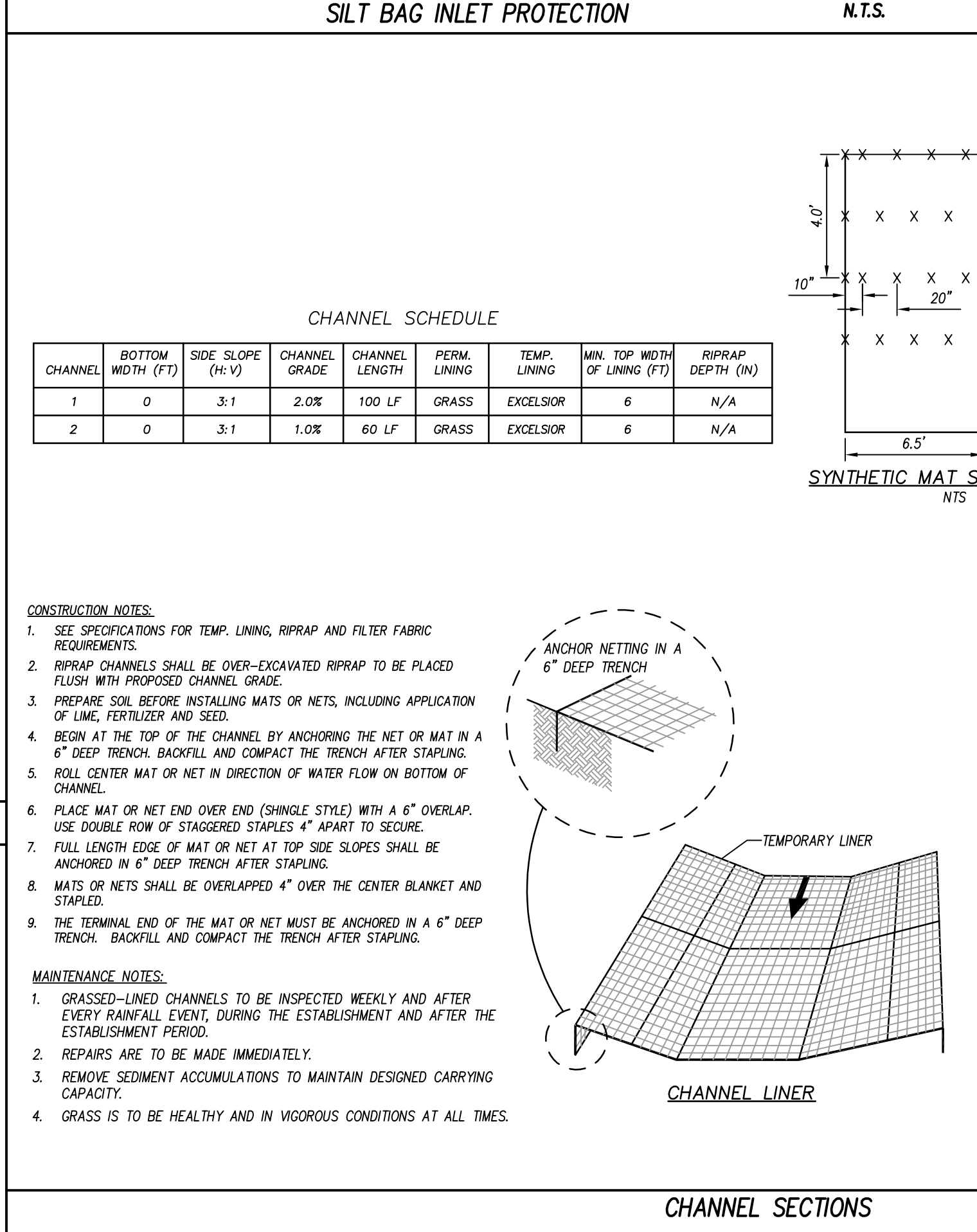
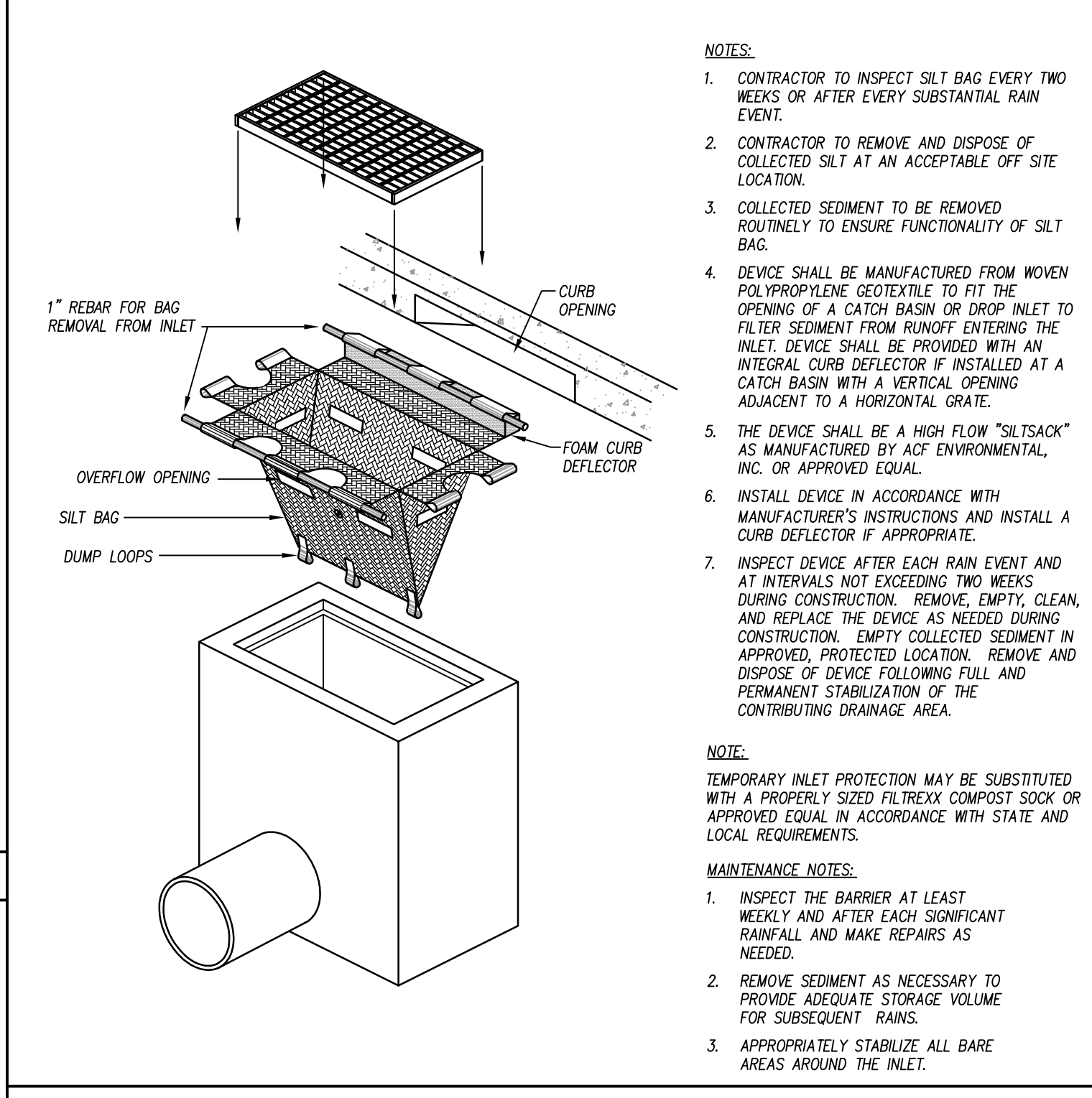
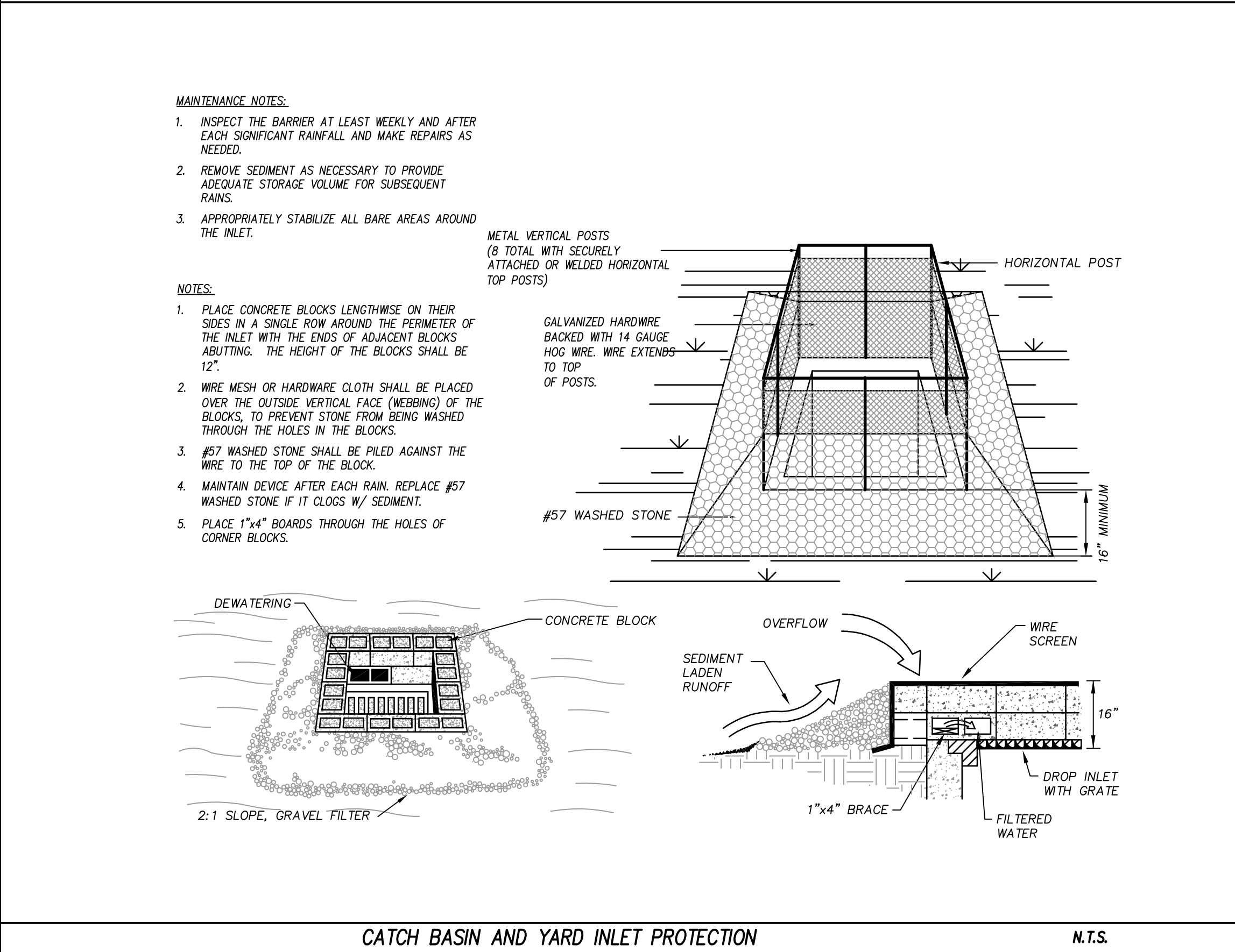
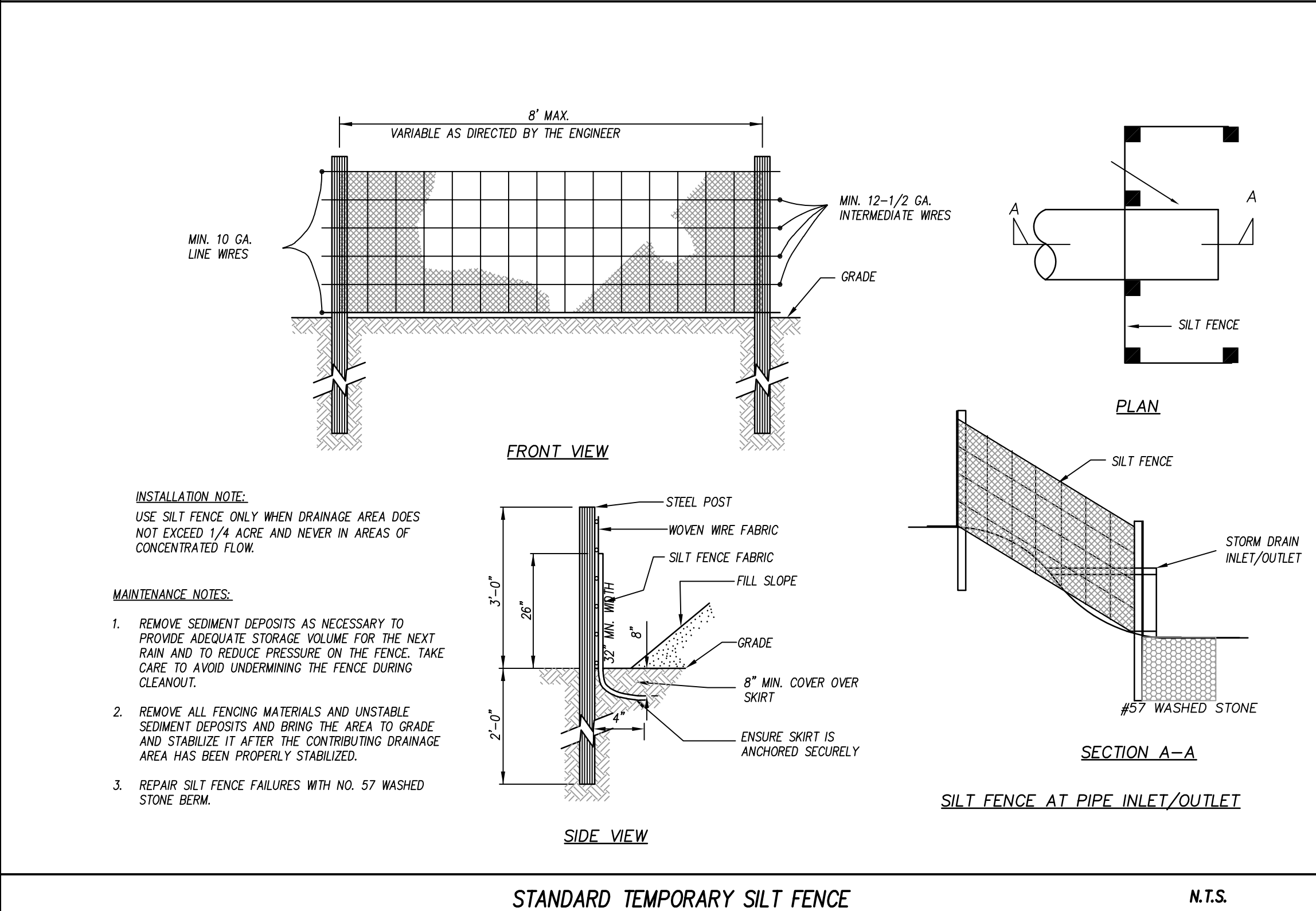
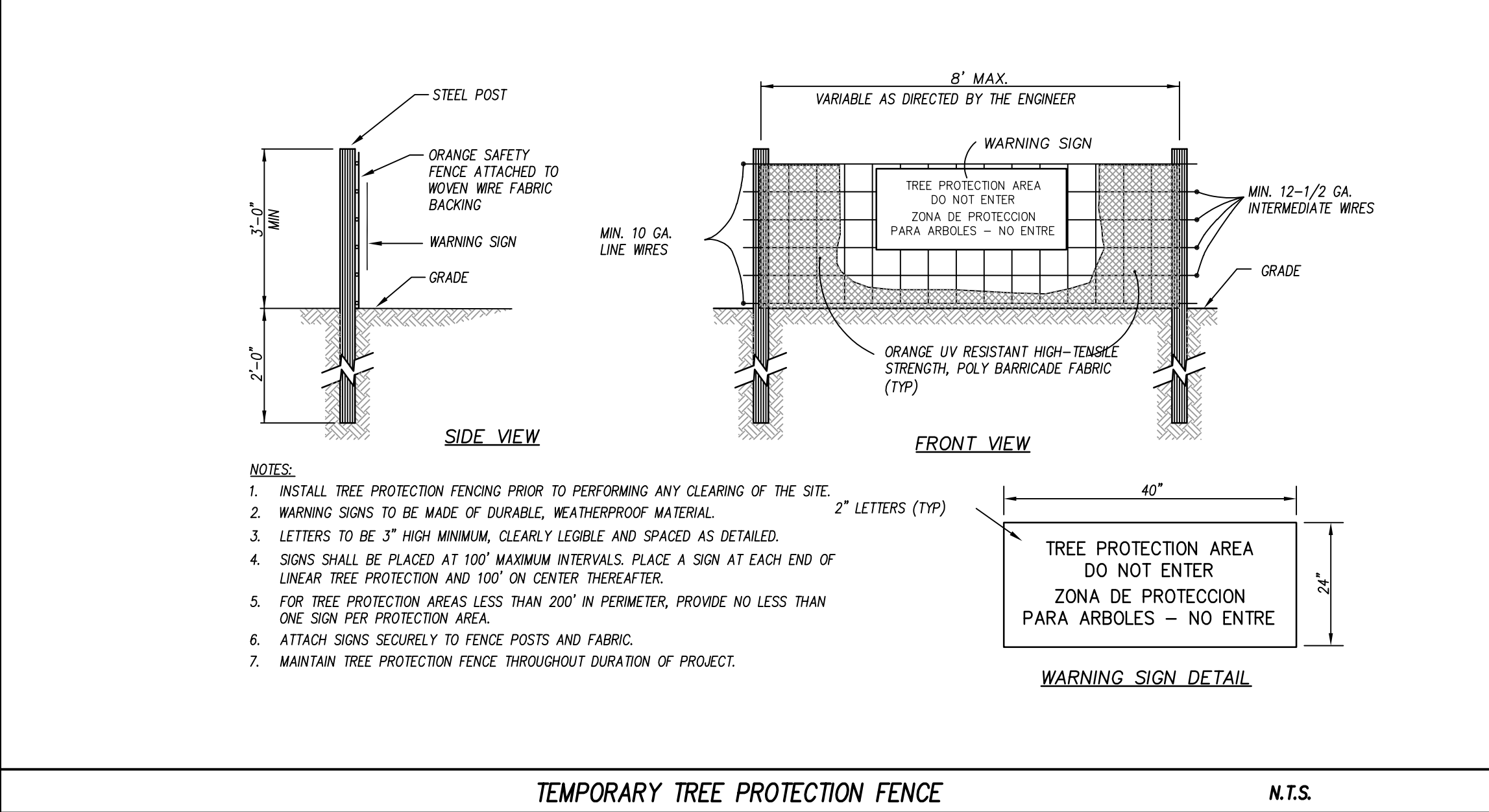
Construction Drawings

Issue Date: November 7, 2025

Erosion Control Details

Rev.	Date	Notes

C6.1



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Wilmington, NC 28401
910 762-0892
s2a3.com

CLH DESIGN, P.A.

400 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 319-6716
Fax: (919) 319-7518
LA: C-1585
PE: C-1585

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STATE OF NORTH CAROLINA
LICENSE NO. 11-07-25

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Construction Drawings

Issue Date: November 7, 2025

Erosion Control Details

Rev.	Date	Notes

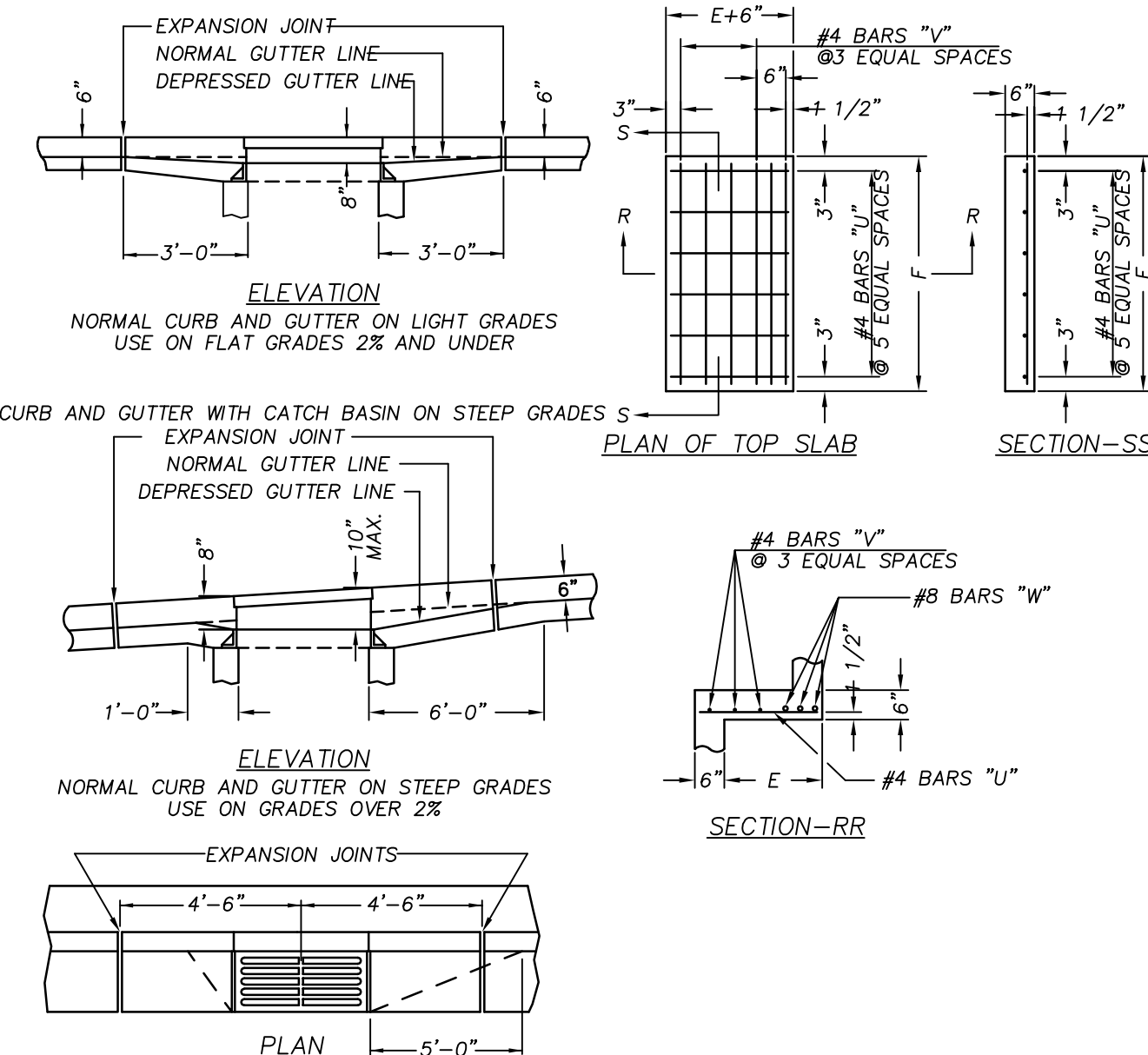
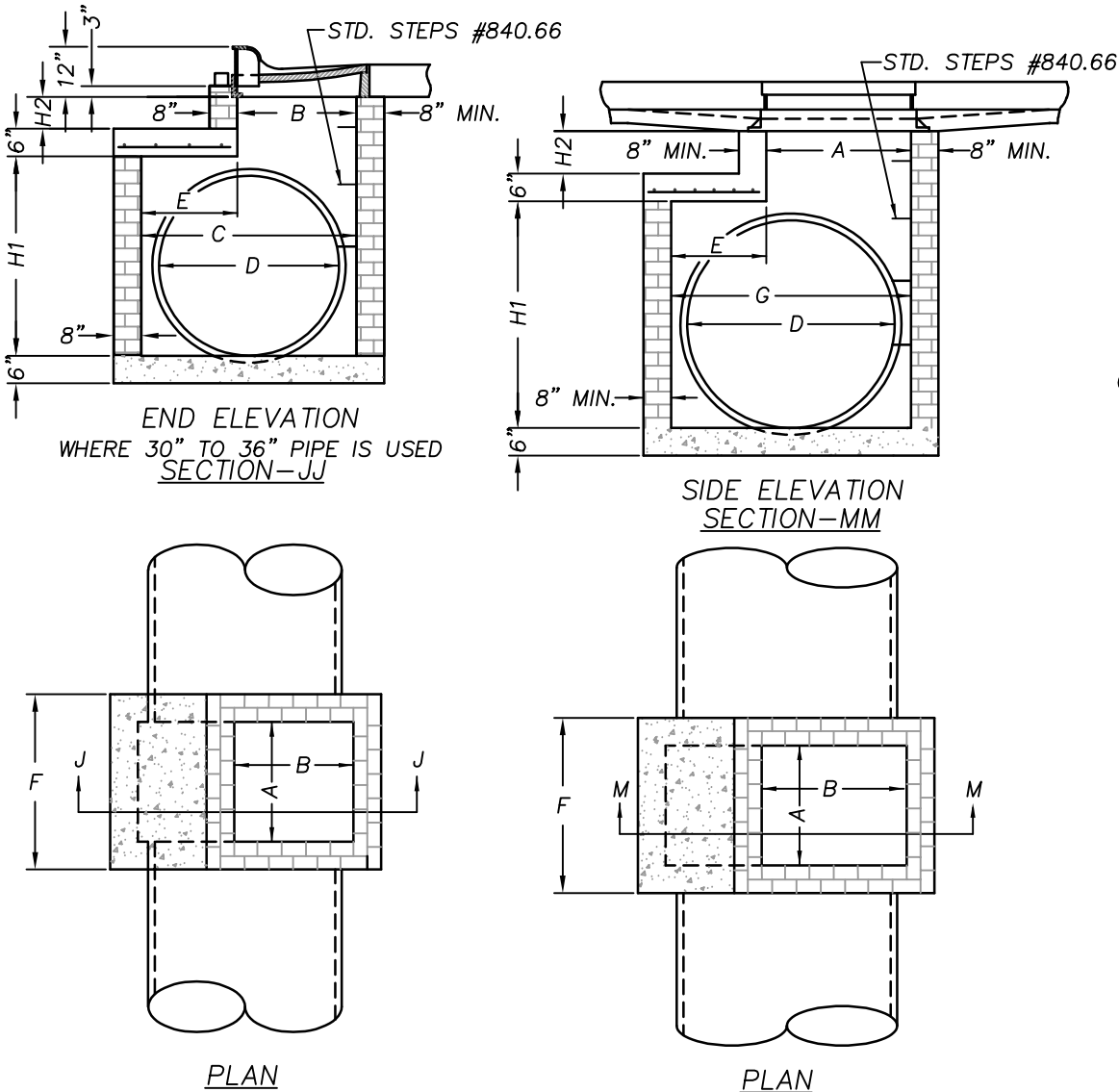
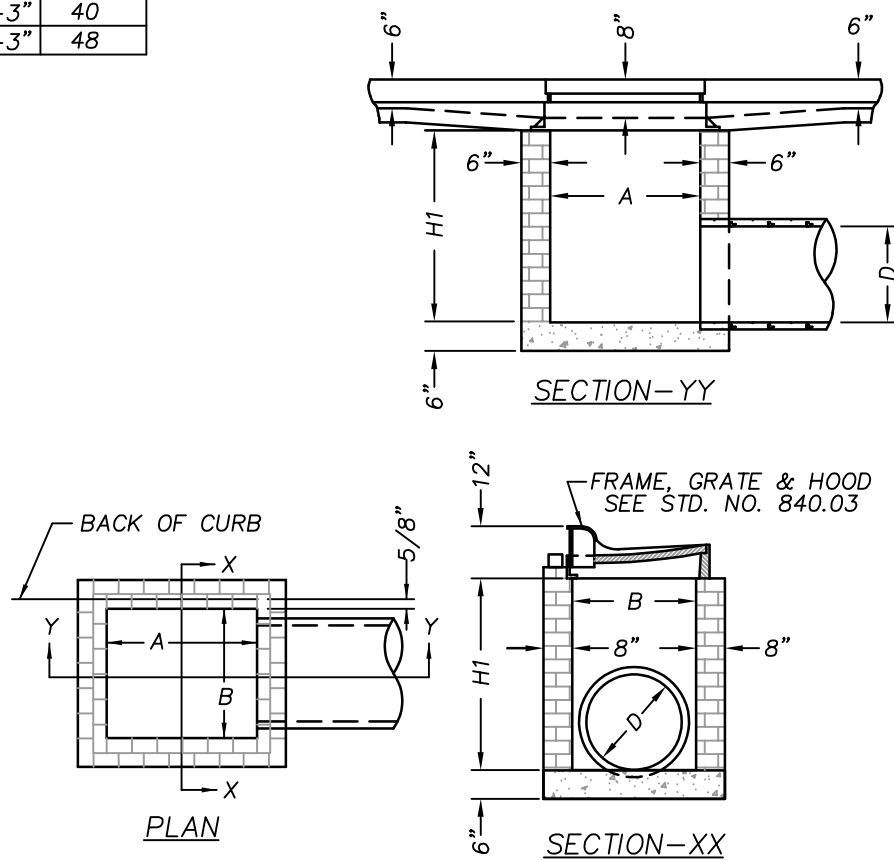
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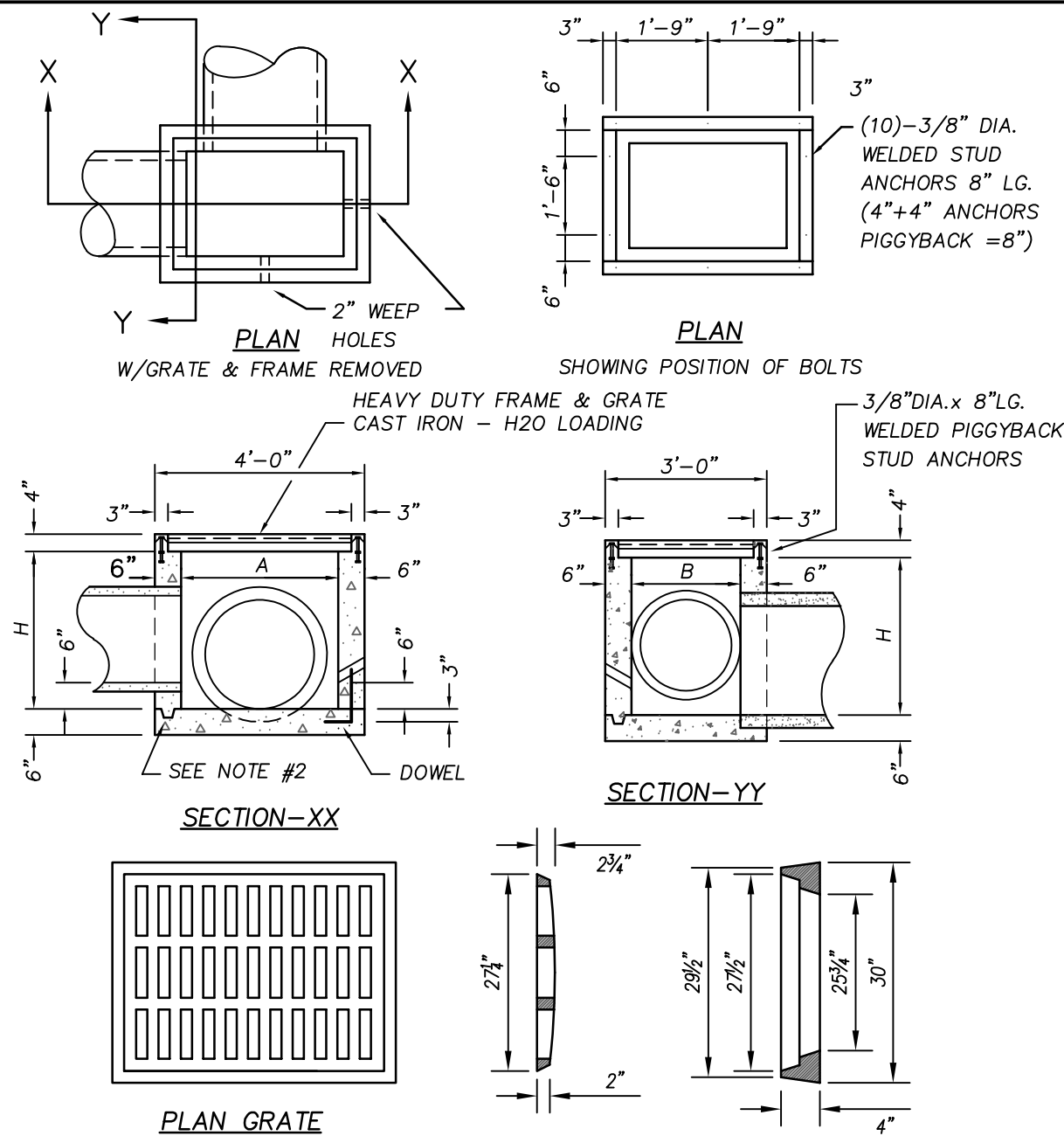
MINIMUM DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASIN													
DIMENSIONS OF BOX AND PIPE							COVER						
PIPE	SPAN	WIDTH	WIDTH	SPAN	HEIGHT	HEIGHT	DIMENSION						
D	A	B	C	G	H1	H2	E	F	NO.	LENGTH	BARS-V	BARS-W	TOTAL
12"	3'-0"	2'-2"	-	-	2'-3"	-	-	-	-	-	-	-	-
15"	3'-0"	2'-2"	-	-	2'-6"	-	-	-	-	-	-	-	-
18"	3'-0"	2'-2"	-	-	2'-10"	-	-	-	-	-	-	-	-
24"	3'-0"	2'-2"	-	-	3'-2"	-	-	-	-	-	-	-	-
30"	3'-0"	2'-2"	-	3'-4"	-	-	1'-10"	4'-4"	4	1'-6"	3	4'-1"	45
36"	3'-0"	2'-2"	-	3'-10"	-	-	2'-4"	4'-4"	4	2'-0"	4	4'-1"	49
42"	3'-0"	2'-2"	-	4'-5"	4'-4"	-	2'-1"	3'-6"	4	1'-9"	3	3'-3"	38
48"	3'-0"	2'-2"	-	5'-0"	4'-10"	-	2'-8"	3'-6"	4	2'-6"	4	3'-3"	40
54"	3'-0"	2'-2"	-	5'-7"	5'-4"	-	3'-3"	3'-6"	4	3'-0"	6	3'-3"	48

GENERAL NOTES:

- MORTAR JOINTS 1/2" TO 1/8" THICK.
- CLASS "B" CONCRETE TO BE USED THROUGHOUT.
- THE POURING OF FLOOR SLAB TO BE ACCOMPLISHED BY FORMING.
- DEDUCT FOR PIPE(S) FROM TOTAL CU. YARDS OF BRICK MASONRY.
- ALL CATCH BASINS OVER 3'-6" IN DEPTH TO BE PROVIDED WITH STEPS 1'-2" ON CENTER. STEPS SHALL BE IN ACCORDANCE WITH STD. NO. 840.66.
- USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
- JUMBO BRICK WILL BE PERMITTED. CONCRETE BRICK OR 4" SOLID CONCRETE BLOCKS MAY BE USED IN LIEU OF CLAY BRICK.
- IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OR BOX, ADD TO BASE AS SHOWN ON NCDOT STD. NO. 840.00.
- FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALLS. OVER 8'-0" IN HEIGHT, USE 12" WALL TO 6'-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6'-0". QUALITIES TO BE ADJUSTED ACCORDINGLY.
- PRECAST CONCRETE CONSTRUCTION MAY BE USED IN LIEU OF BRICK AND BLOCK CONSTRUCTION.



CATCH BASIN

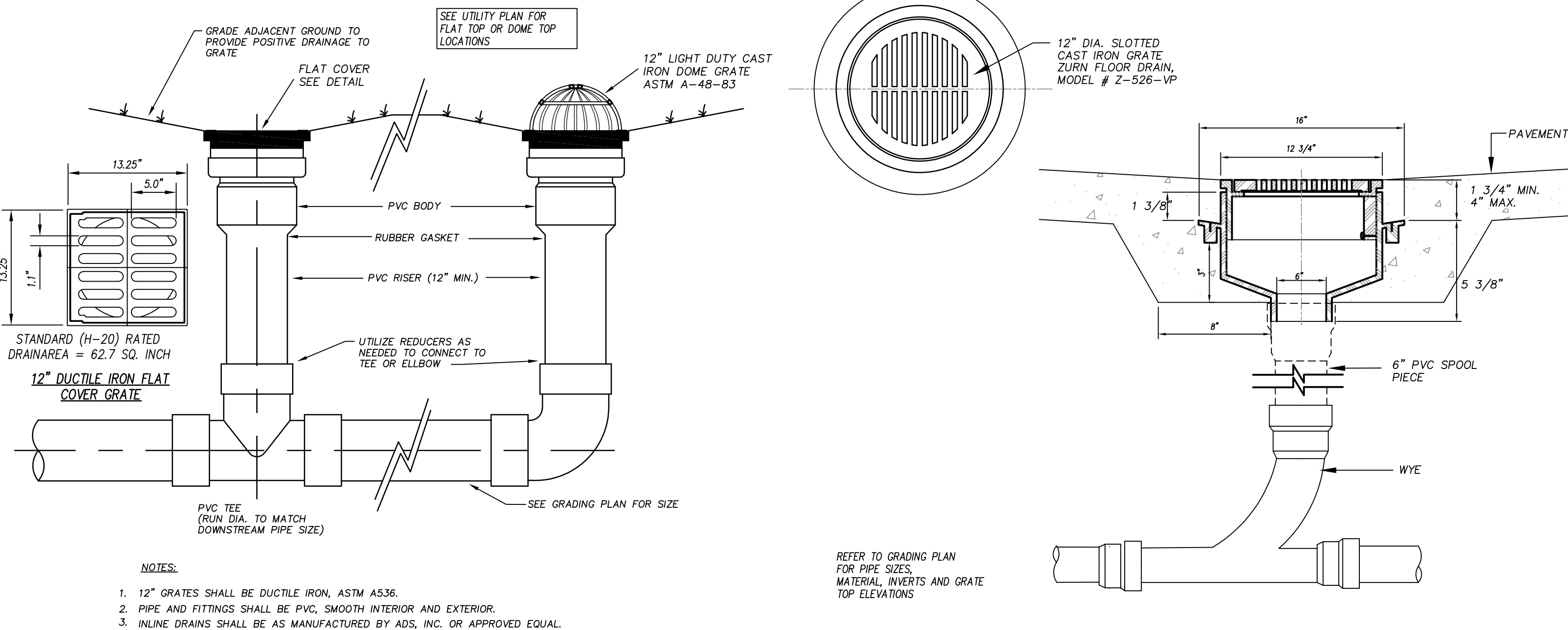


DIMENSIONS FOR DROP INLET			
PIPE	SPAN	WIDTH	HEIGHT
12"	3'-0"	2'-0"	2'-8"
15"	3'-0"	2'-0"	3'-0"
18"	3'-0"	2'-0"	3'-5"
24"	3'-0"	2'-0"	4'-0"
30"	3'-0"	2'-0"	4'-3"

DIMENSIONS FOR CHANNELS			
NO.	SIZE	LENGTH	TOTAL LIN. FT.
2	3"x4.1"	4'-0"	8'-0"
2	3"x4.1"	2'-6"	5'-0"

GENERAL NOTES:

- CLASS "B" CONCRETE TO BE USED THROUGHOUT.
- OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTER, AS DIRECTED BY THE DESIGNER.
- TWO 2" PIPE WEEP HOLES TO BE PLACED AS DIRECTED BY DESIGNER.
- FORMS ARE TO BE USED FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
- IF REINFORCED CONCRETE PIPE IS SET IN BASE OF BOX, ADD TO BASE AS SHOWN ON N.C.D.O.T. STANDARD 840.00.
- A STONE DRAIN CONSISTING OF 1 CUBIC FOOT OF NO. 78M STONE CONTAINED IN A BAG OF POROUS FABRIC SHALL BE PLACED AT EACH WEEP HOLE.
- ALL DROP INLETS OVER 3'-6" IN DEPTH TO BE PROVIDED WITH STEPS 1'-2" ON CENTERS. STEPS SHALL BE IN ACCORDANCE WITH N.C.D.O.T. STANDARD 840.66.
- ADA RATED HEAVY DUTY GRATE TO BE INSTALLED PEDESTRIAN AREAS.



NOTES:

- 12" GRATES SHALL BE DUCTILE IRON, ASTM A536.
- PIPE AND FITTINGS SHALL BE PVC, SMOOTH INTERIOR AND EXTERIOR.
- INLINE DRAINS SHALL BE AS MANUFACTURED BY ADS, INC. OR APPROVED EQUAL.

DROP INLET

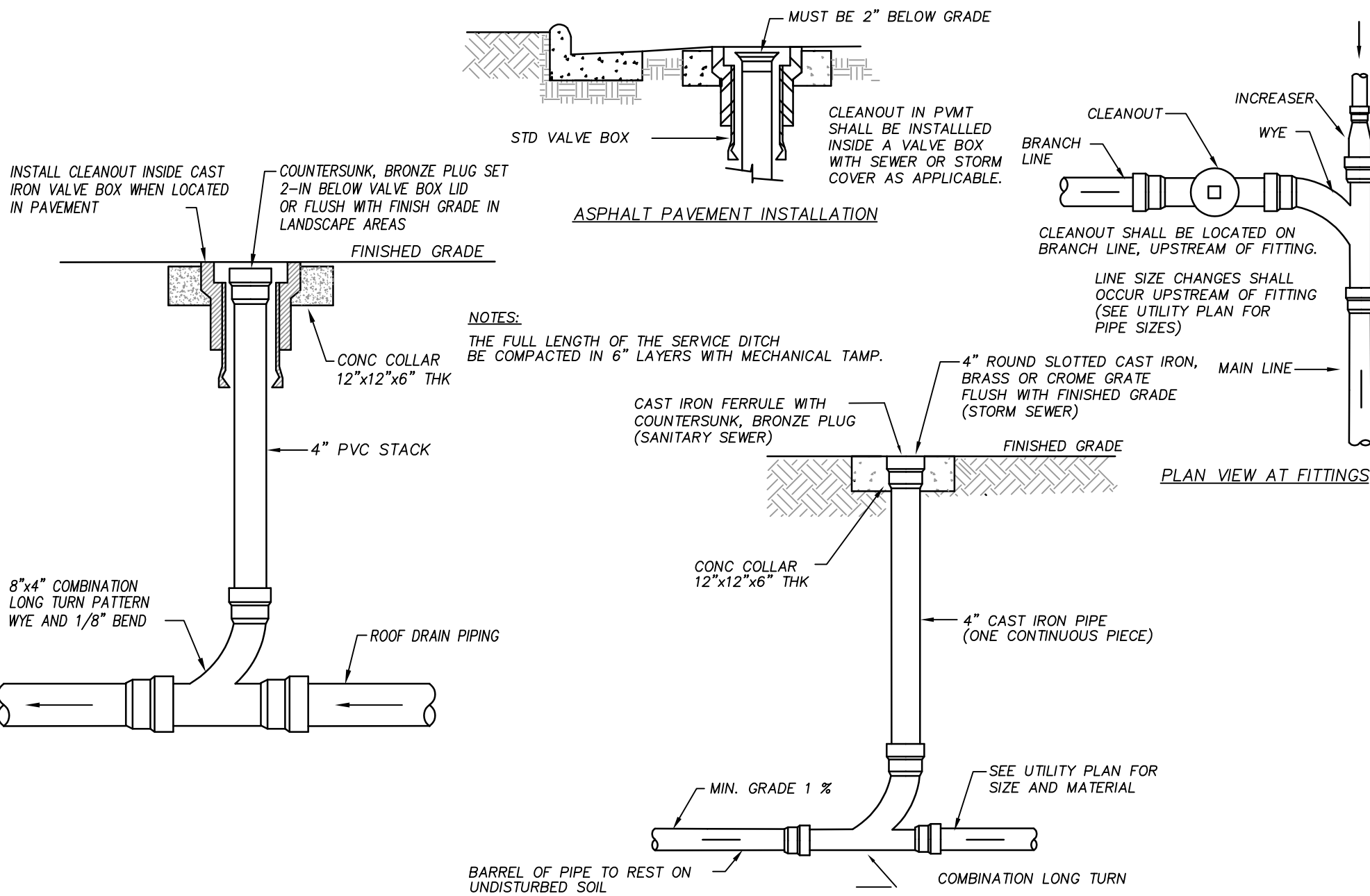
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INLINE DRAIN

N.T.S.

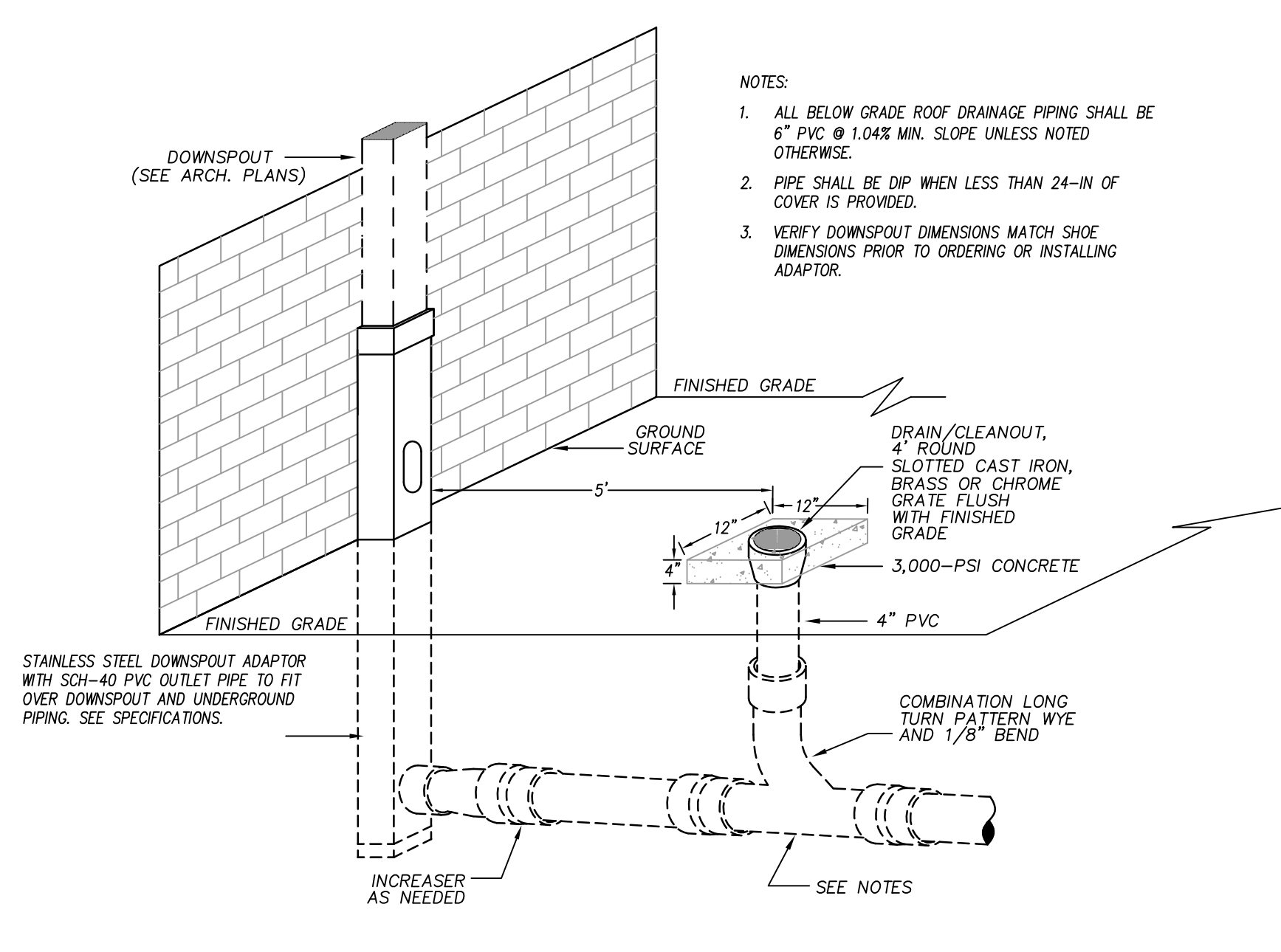
FLOOR DRAIN

N.T.S.



ROOF DRAIN CLEANOUT

N.T.S.



DOWNSPOUT BOOT

N.T.S.

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Wilmington, NC 28401
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s2a3.com



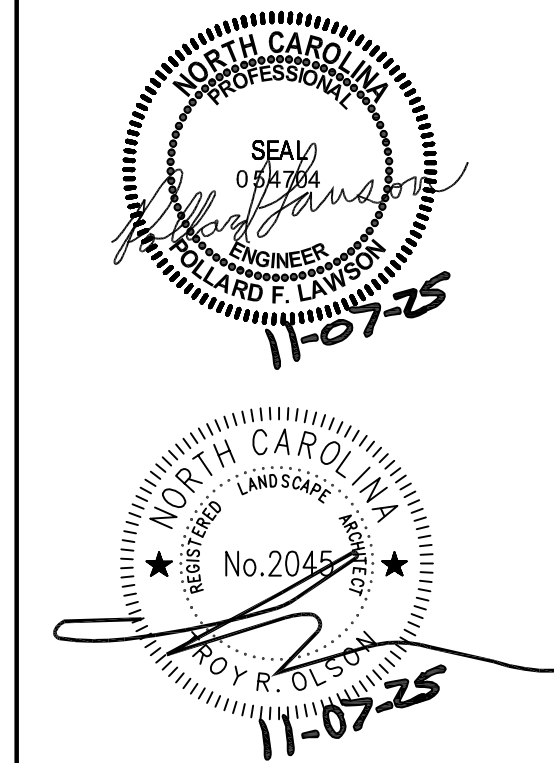
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CONSULTING ENGINEERS
3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
FAX: (910) 452-4211
OFFICE@CHEATHAMPA.COM
WWW.CHEATHAMPA.COM
NC LICENSE# C-1073



254 North Front Street
Suite 201
Wilmington, NC 28401
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PERMIT SET

Issue Date: SEPTEMBER 30, 2025

STORM DETAILS

Rev.	Date	Notes

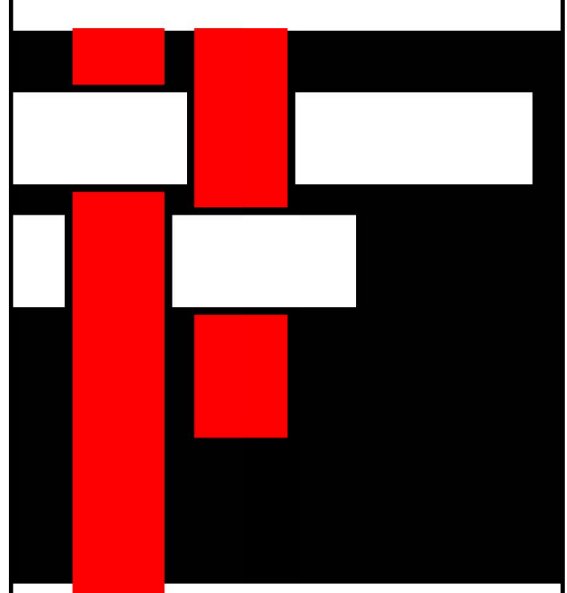
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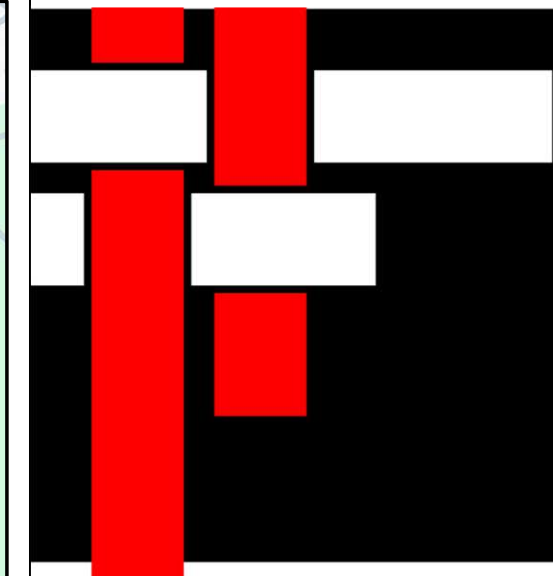
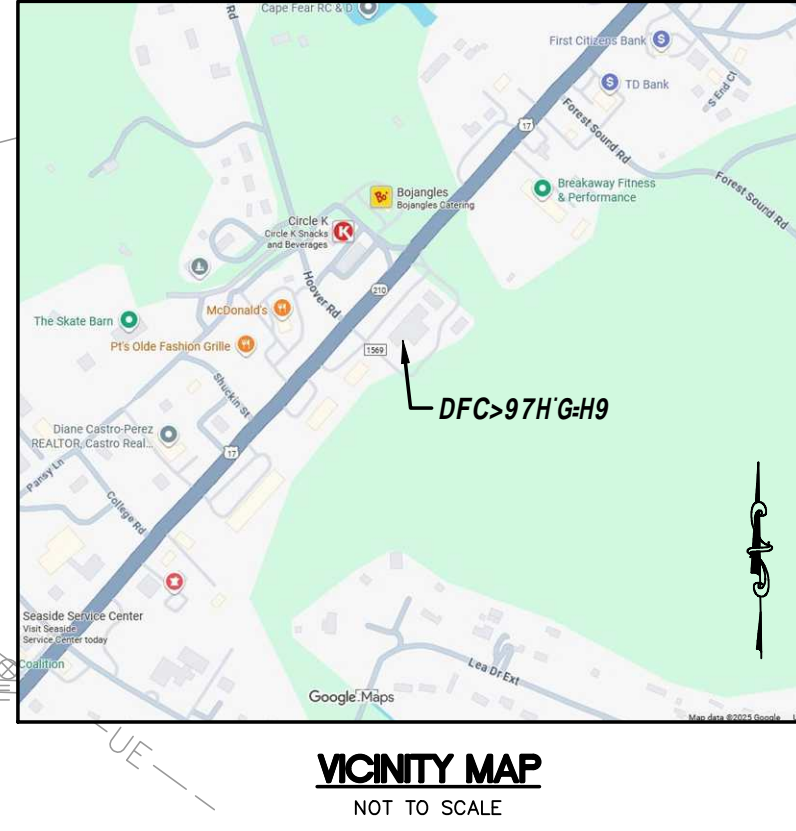
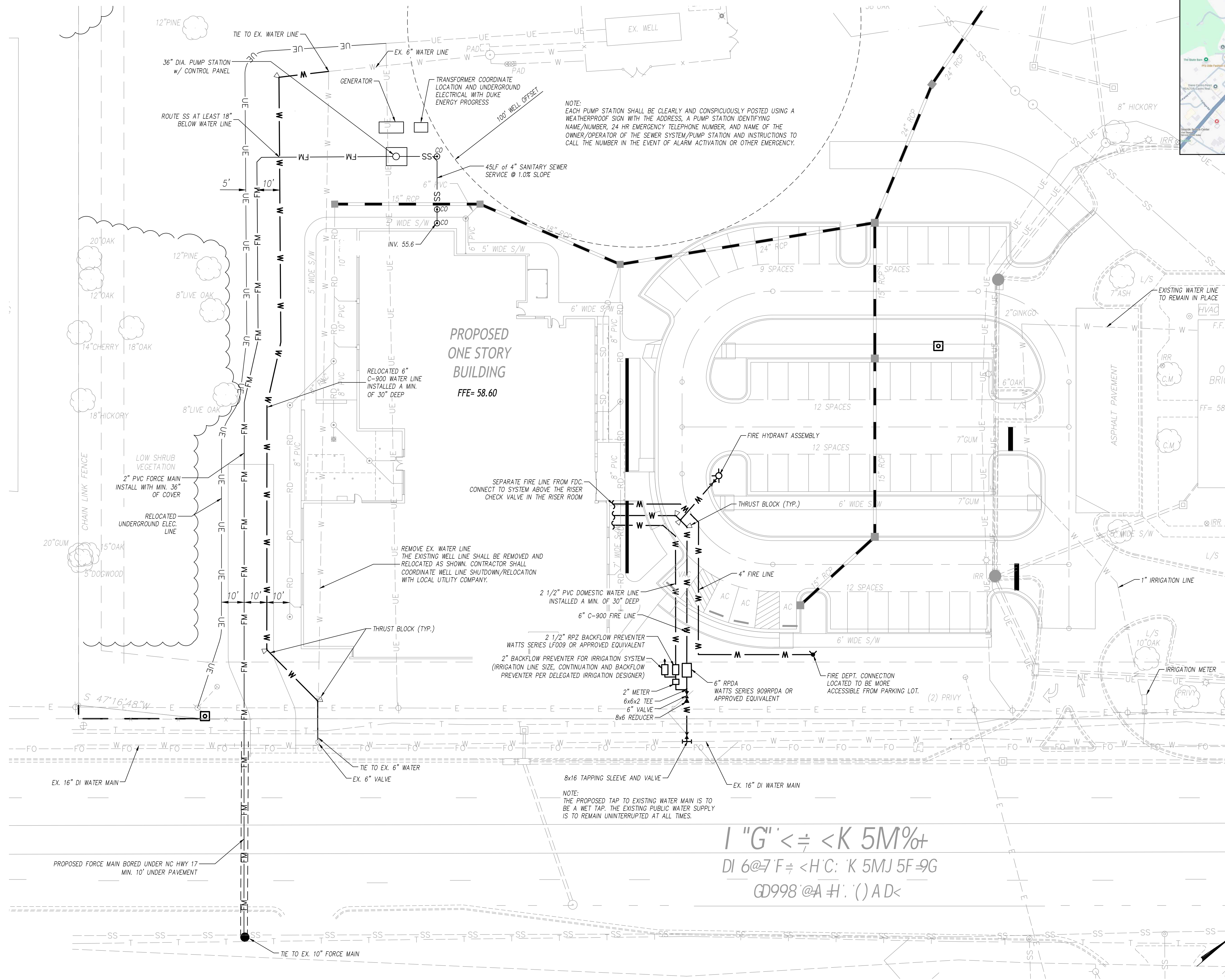
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Rev.	Date	Notes

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ARCHITECTURE**

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Wilmington, NC 28401
910 762-0892
s2a3.com

CLH DESIGN, P.A.
200 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 319-4718
Fax: (919) 319-7916
LA C-105
E.C. 16895

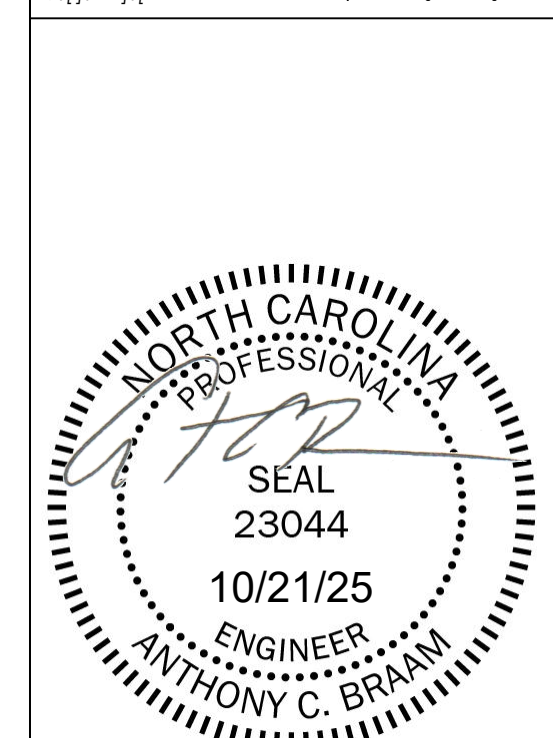
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CONSULTING ENGINEERS**
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WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
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Wilmington, NC 28401
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15226 US HWY 17
HAMPSHIRE, NORTH CAROLINA 28443
PHONE: 910.270.8559 • FAX: 910.270.8559
E-Mail: sonya@rscengineering.com



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**100% CONSTRUCTION
DOCUMENTS**

Issue Date: OCTOBER 20, 2025

SITE UTILITY

Rev.	Date	Notes
1	10/20/25	ADDED PUMP STATION NOTE

U5.1

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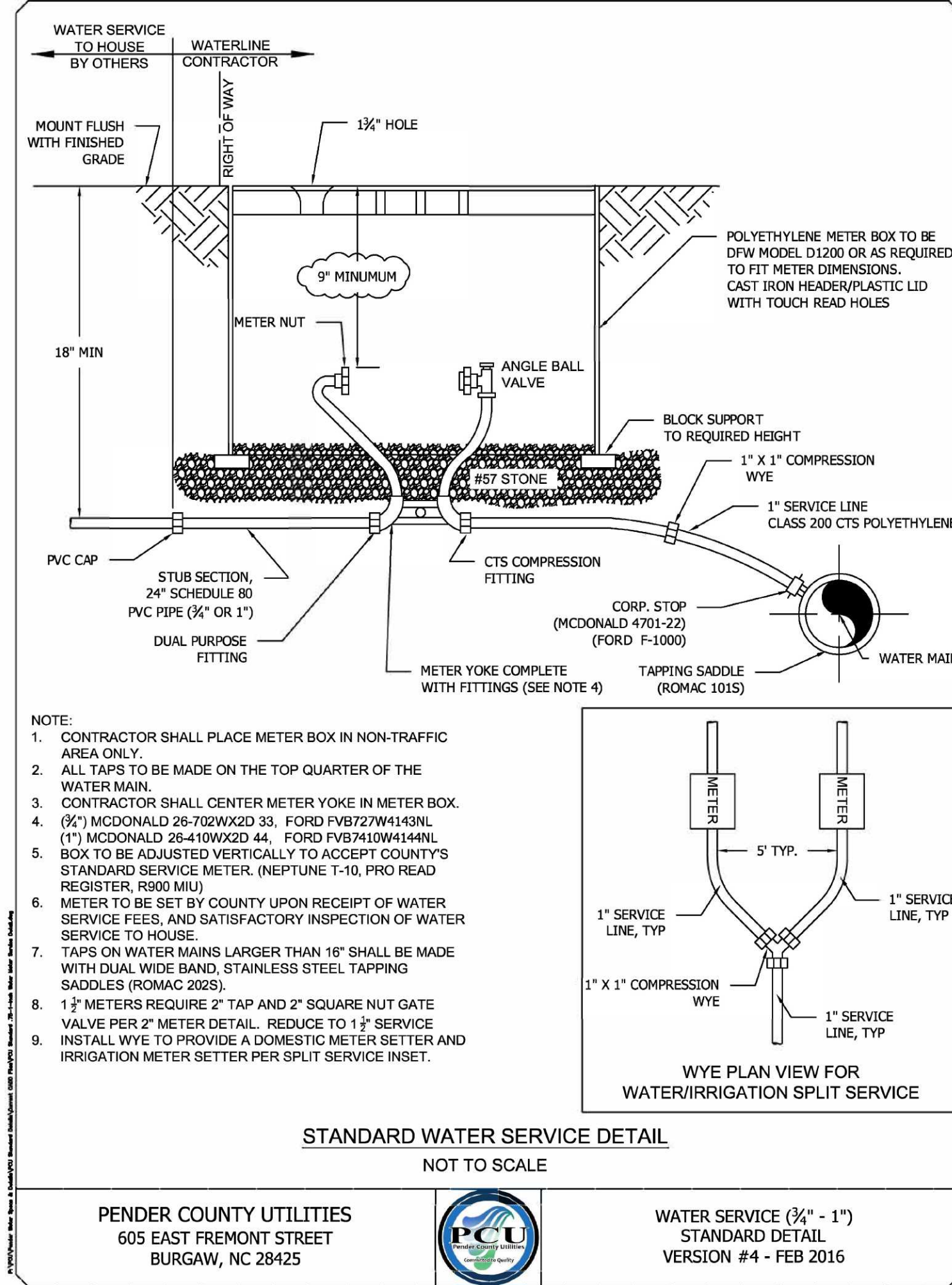
PCU STANDARD NOTES

1. A PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE BEGINNING WORK. THE MEETING MUST BE SCHEDULED WITH PENDER COUNTY UTILITIES (PCU) AT LEAST ONE WEEK IN ADVANCE. ATTENDEES MUST INCLUDE PCU, THE UTILITY CONTRACTOR'S SUPERINTENDENT, THE SUPPLIER, AND THE CONSULTING ENGINEER.
2. ALL MATERIALS USED SHALL CONFORM TO PENDER COUNTY UTILITIES REQUIREMENTS. NON-CONFORMING MATERIAL WILL NOT BE ACCEPTED FOR FINAL CERTIFICATION.
3. ALL PIPE SHALL BE C900 CR18 PVC, UNLESS OTHERWISE NOTED (SEE PCU STANDARD DETAIL). PCU MUST APPROVE THE USE OF DIP IN THE FIELD BEFORE INSTALLATION. PIPE SHOULD NEVER BE UNDER THE ROADWAY, PARKING LOT, OR SIDEWALKS. PENDER COUNTY UTILITIES DOES NOT ALLOW SIZE-ON-SIZE TAPS.
4. PCU STANDARD WATERLINE PIPE RESTRAINING METHOD IS MEGA LUGS. AT A MINIMUM ALL FITTINGS, VALVES, ETC. MUST BE RESTRAINED (SEE PCU STANDARD DETAIL).
5. PCU MUST INSPECT CASING INSTALLATIONS PRIOR TO BACKFILL. PCU MUST WITNESS PRESSURE TESTS, AND WITHDRAWAL OF BACTERIOLOGICAL SMAPLES. CONTACT PENDER COUNTY UTILITIES INSPECTOR TO SCHEDULE.
6. CLOSE-OUT DOCUMENTS WHICH MUST BE RECEIVED PRIOR TO PCU SIGNING THE NCDEQ PWSS APPLICANT CERTIFICATION INCLUDE: BACTERIOLOGICAL TESTS, PRESSURE TESTS, DEED OF DEDICATION, AFFIDAVIT/RELEASE OF LIENS, WARRANTY, AND RECORDS DRAWINGS (PDF & GIO REFERENCED CAD).
7. AN 18-MONTH WARRANTY PERIOD APPLIES TO ALL WATERLINE CONSTRUCTION. THIS WARRANTY PERIOD DOES NOT BEGIN UNTIL FINAL APPROVAL OF THE SYSTEM HAS BEEN RECEIVED FROM NCDEQ PWSS.

PENDER COUNTY UTILITIES
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PO BOX 995, BURGAW, NC 28425



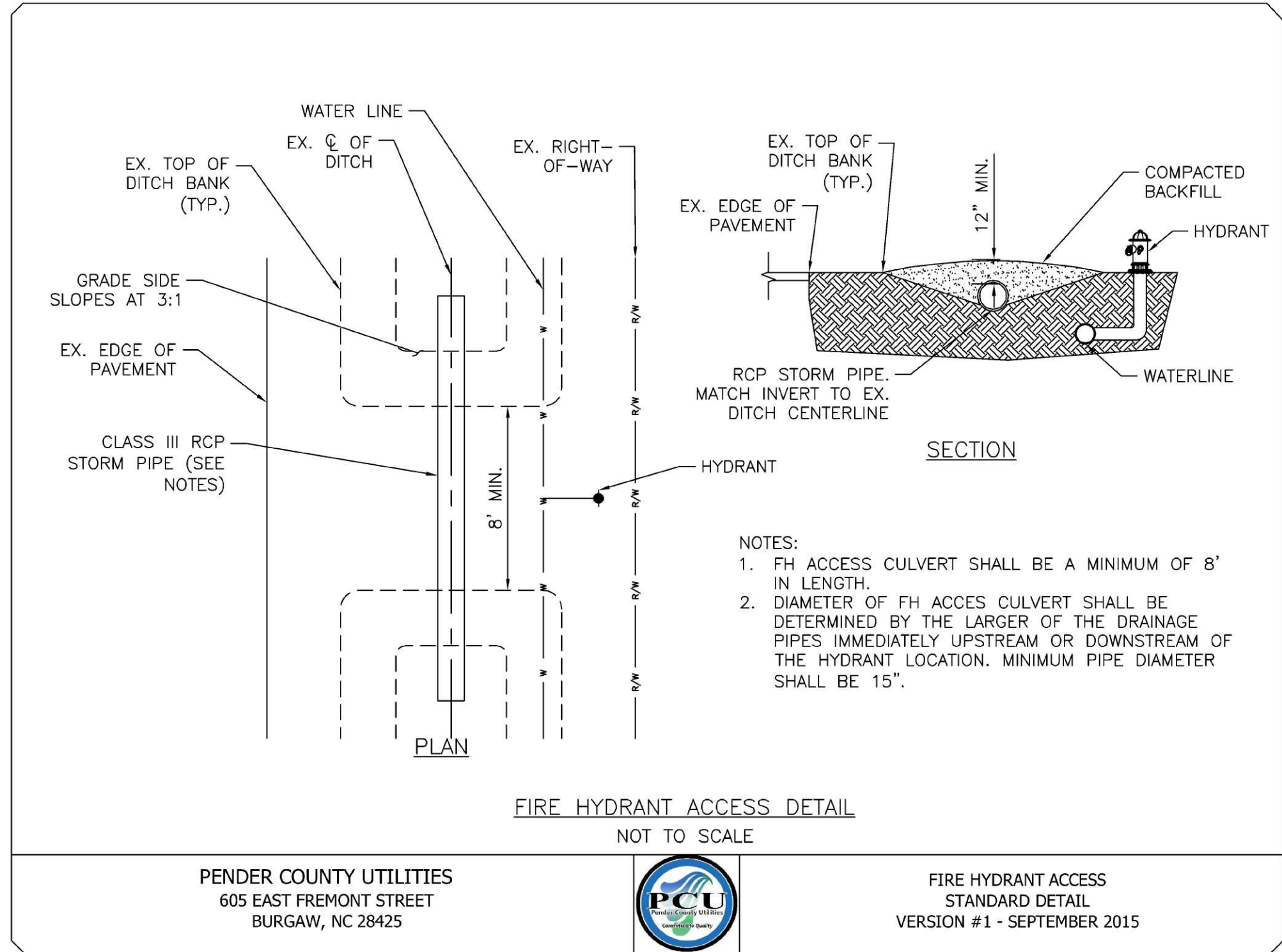
STANDARD NOTES
PCU WATER SYSTEMS
VERSION #4 – OCTOBER 2023



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BURGAW, NC 28425



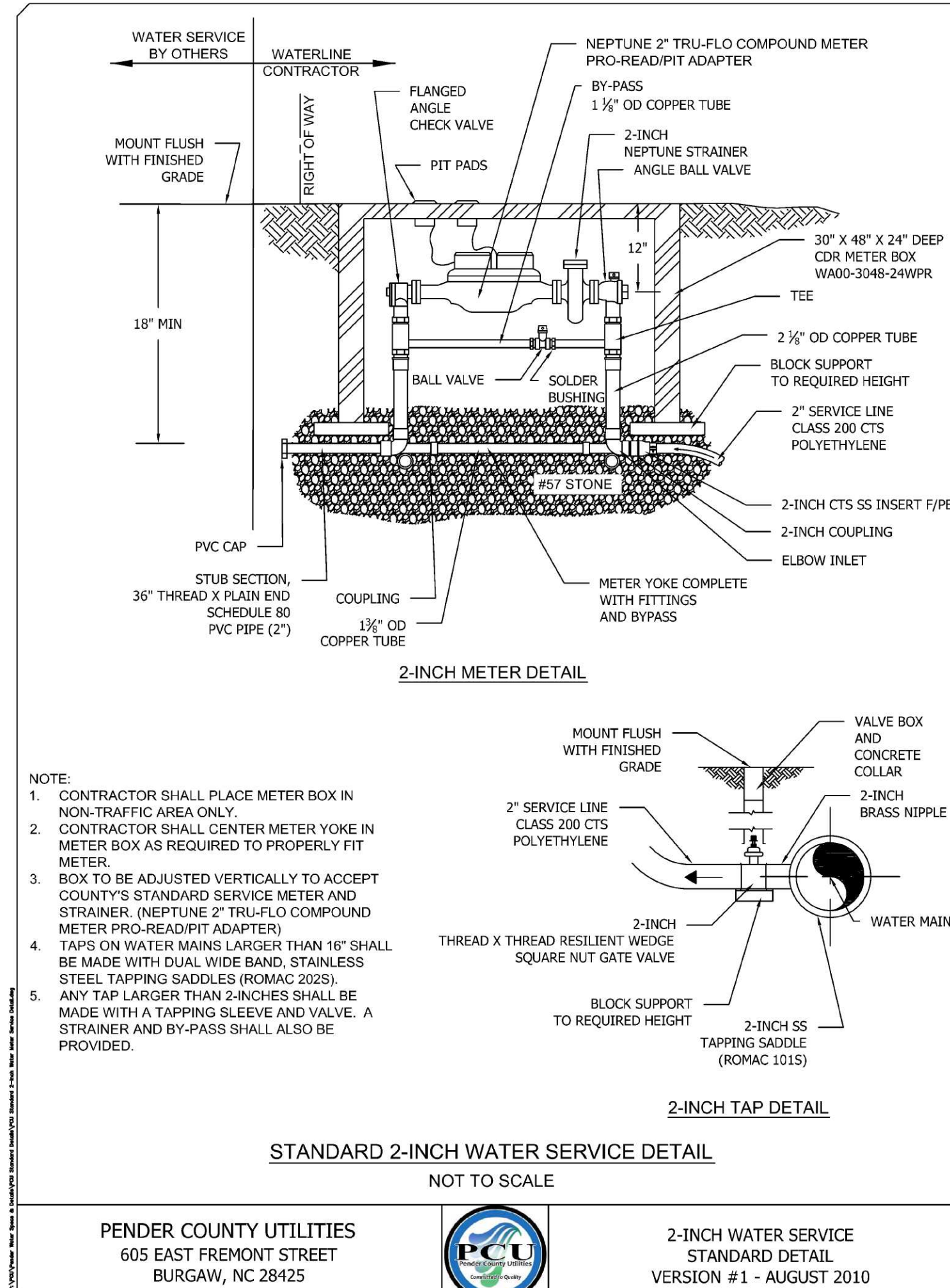
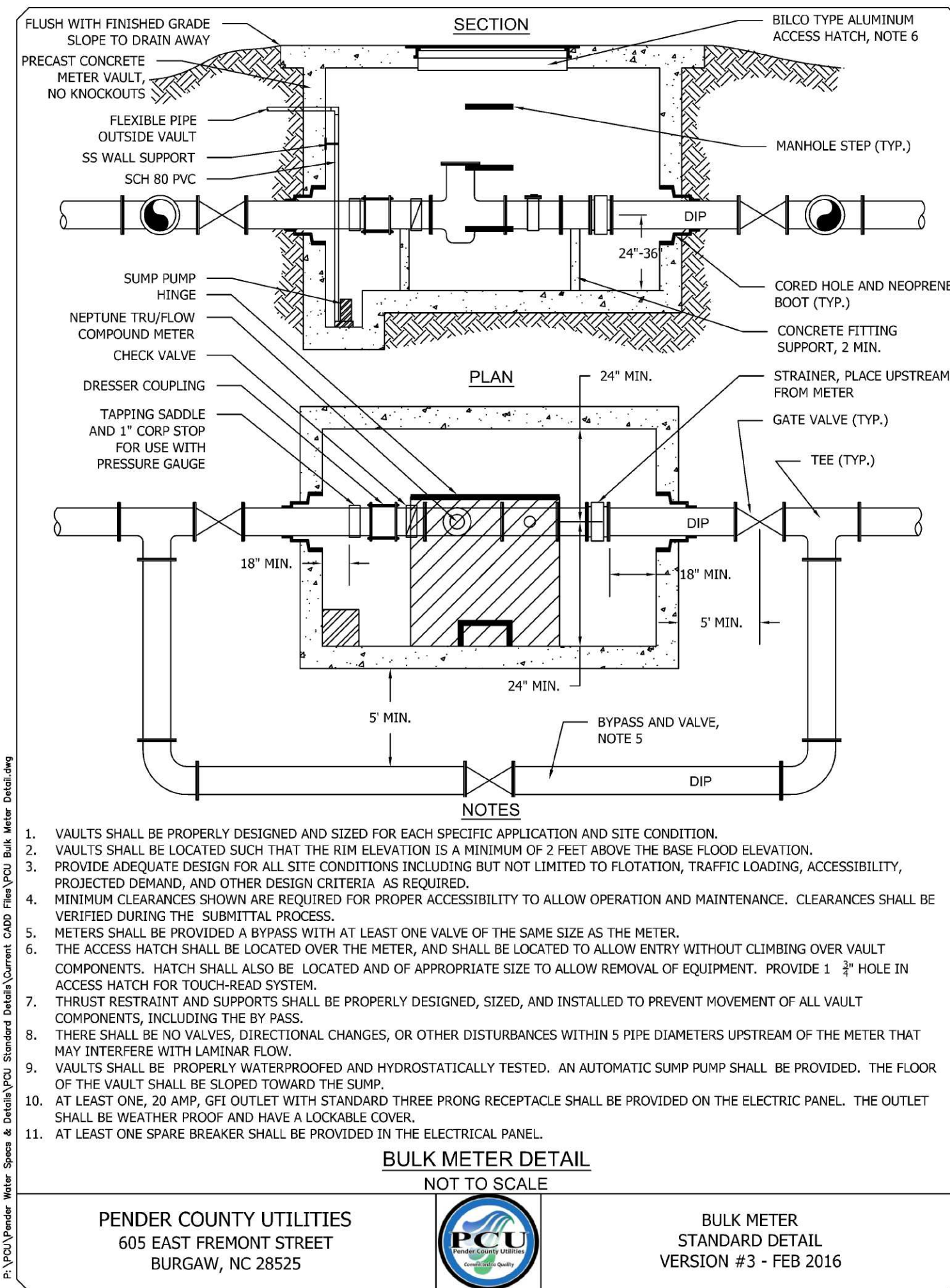
WATER SERVICE (3/4\"/>



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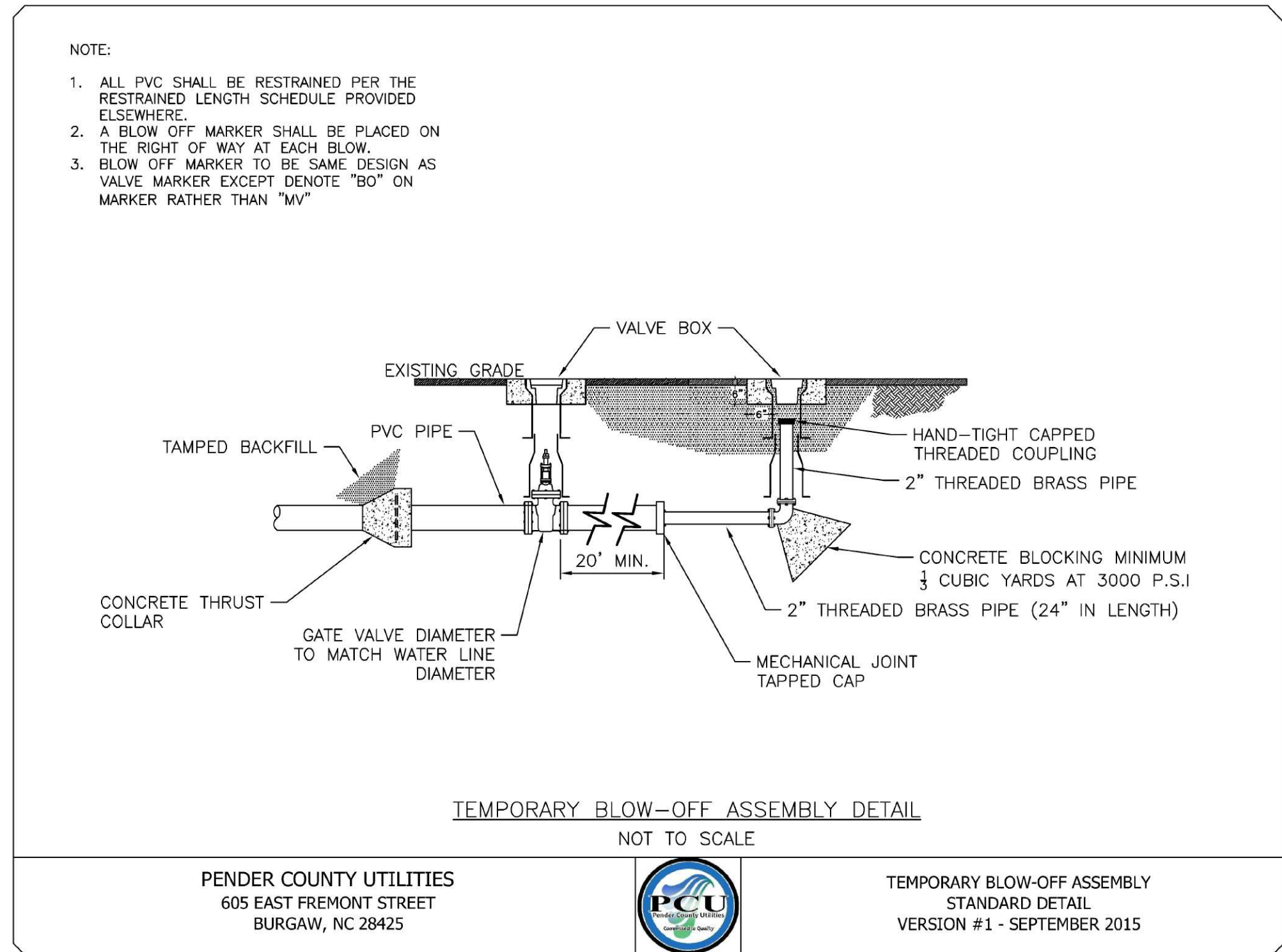
FIRE HYDRANT ACCESS
STANDARD DETAIL
VERSION #1 - SEPTEMBER 2015



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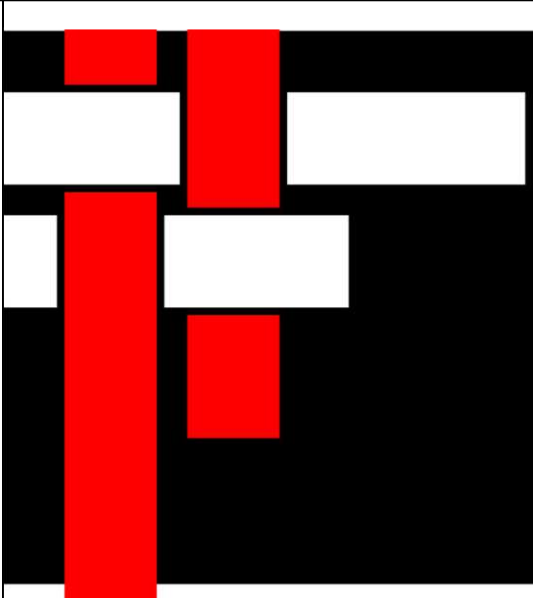
2-INCH WATER SERVICE
STANDARD DETAIL
VERSION #1 - AUGUST 2010



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TEMPORARY BLOW-OFF ASSEMBLY
STANDARD DETAIL
VERSION #1 - SEPTEMBER 2015

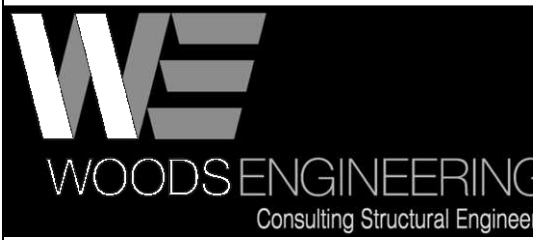


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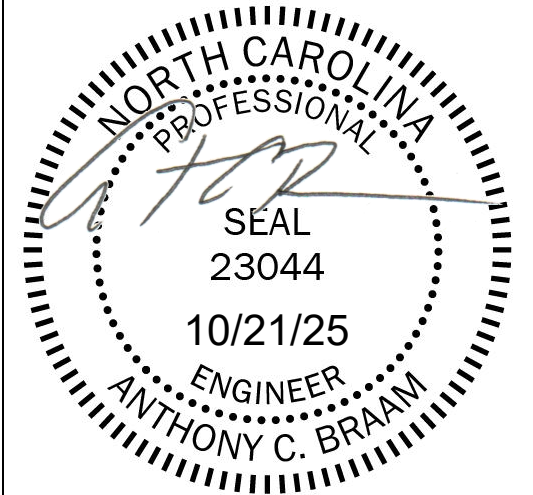
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RSC ENGINEERING, PLLC
15226 US HWY 17
HAMPSHIRE, NORTH CAROLINA 28443
PHONE: 910.270.8559 • FAX: 910.270.8559
E-Mail: sonya@rscengineering.com



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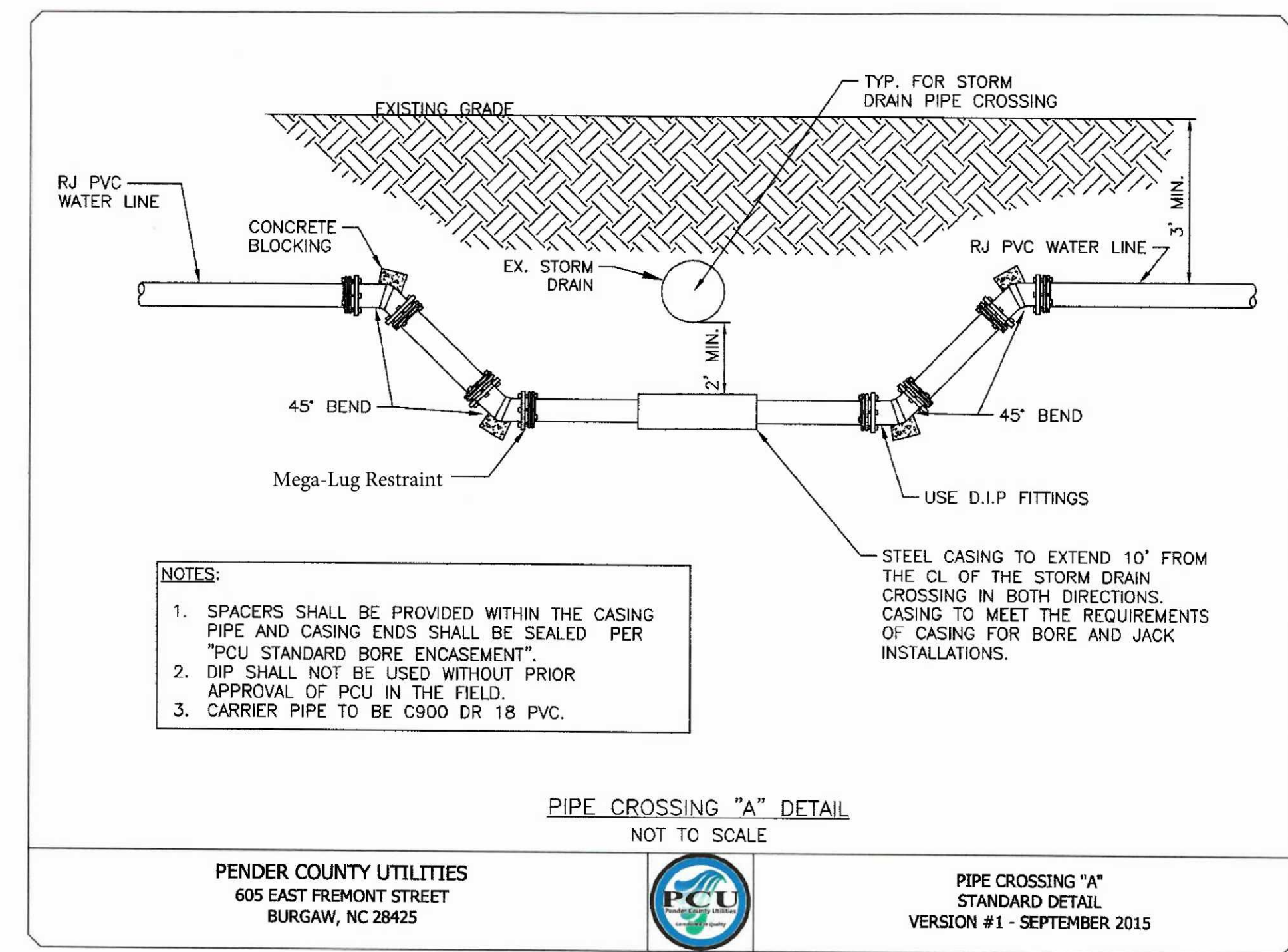
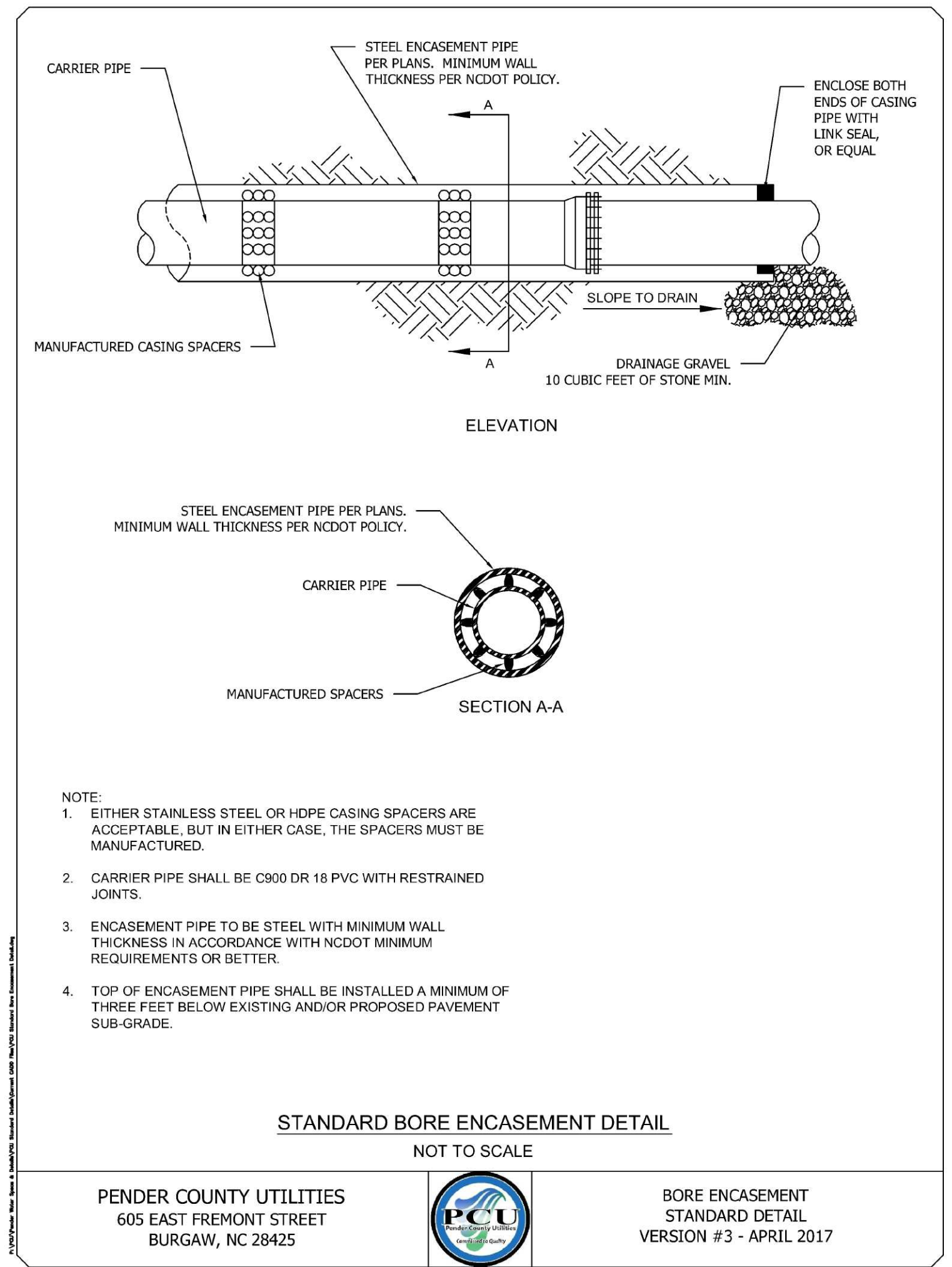
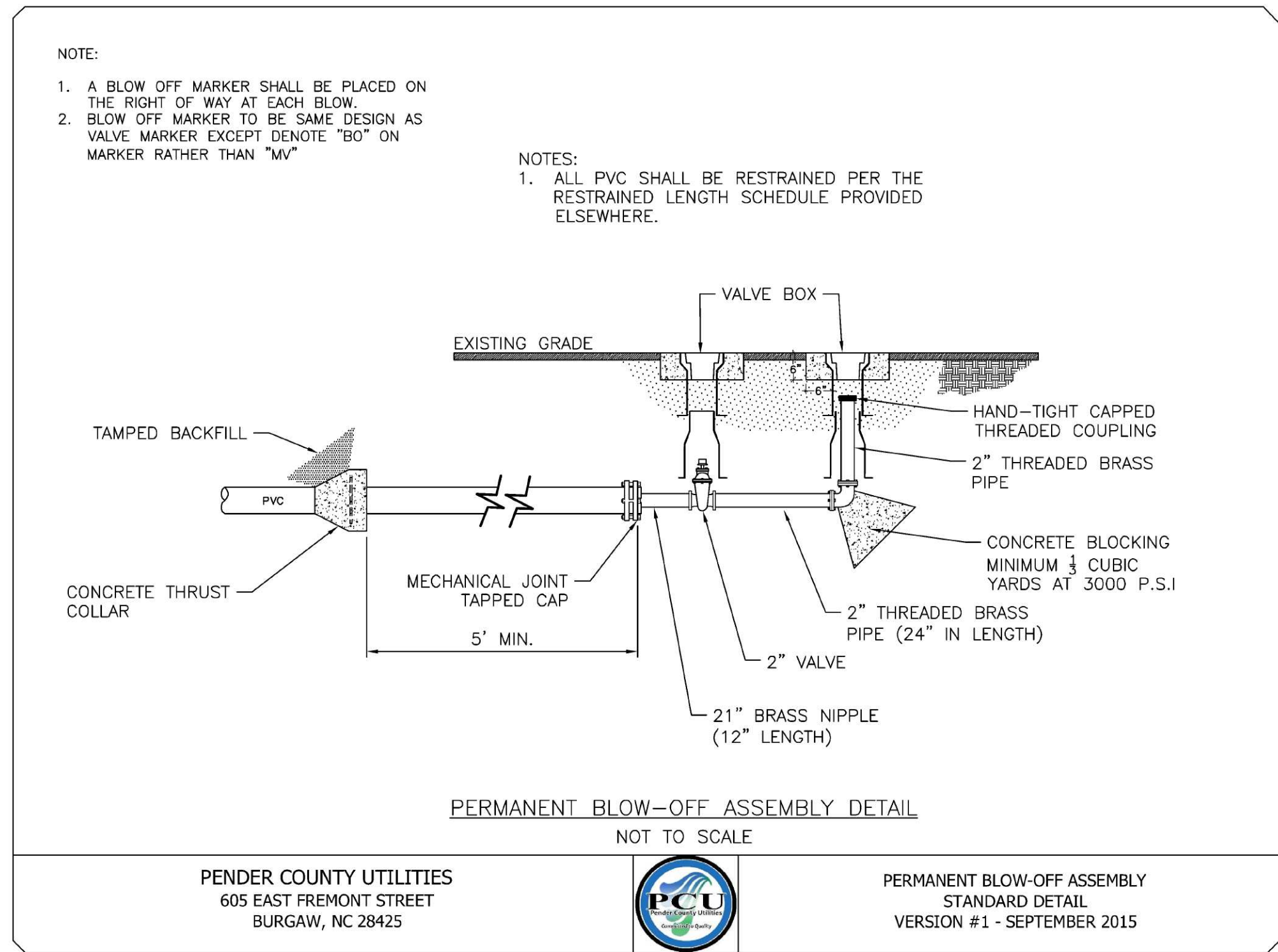
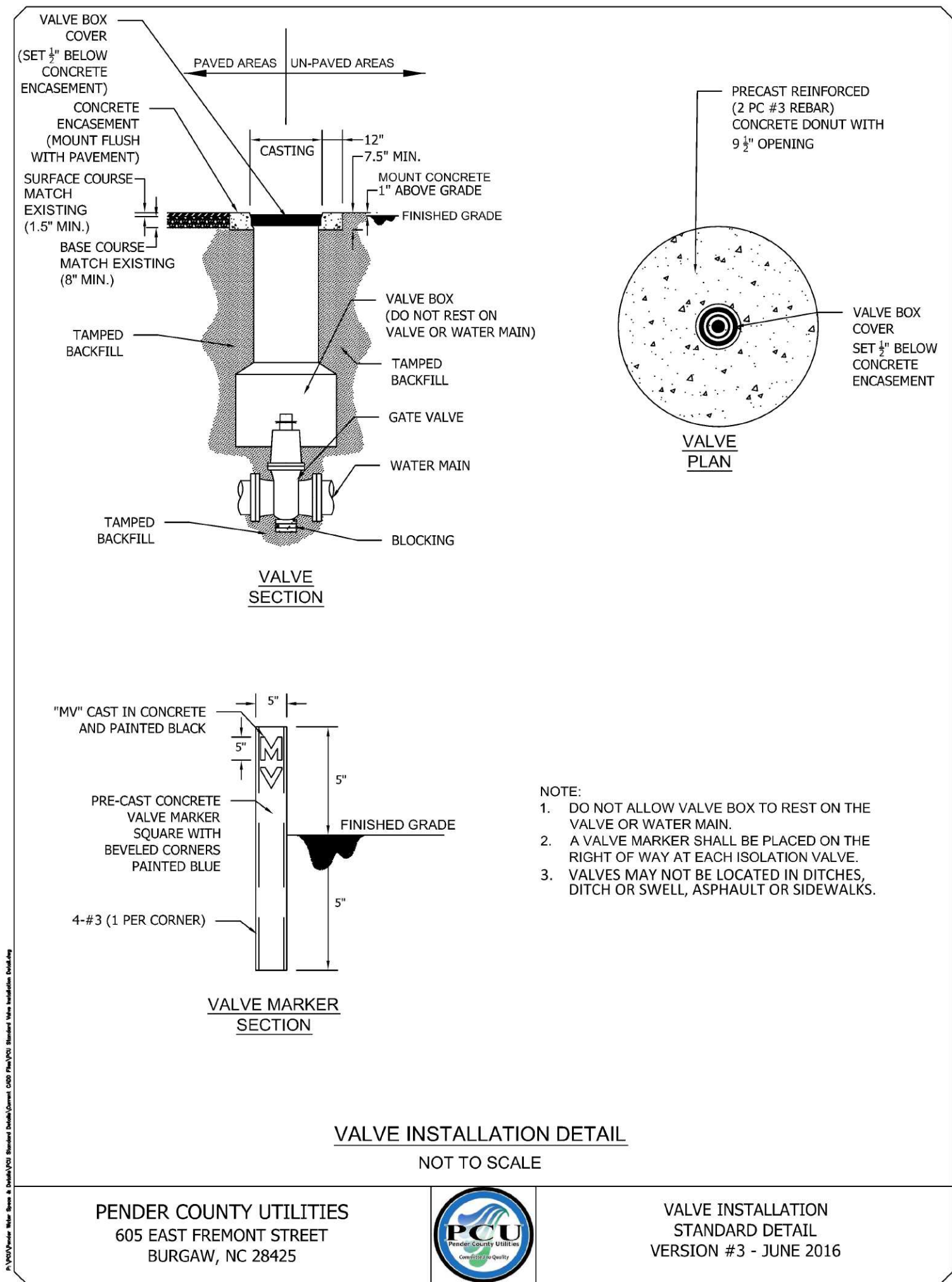
100% CONSTRUCTION
DOCUMENTS

Issue Date: OCTOBER 20, 2025

PCU
DETAILS 1

Rev.	Date	Notes

U9.1



Restrained Length In Feet Each Side of Fitting Joint												
PIPE DIAMETER (INCHES)	D. I. P.				P. V. C.							
	90°	45°	22 1/2°	11 1/4°	90°	45°	22 1/2°	11 1/4°				
3"	30'	18'	10'	8'	40'	20'	10'	8'				
4"	38'	18'	10'	8'	58'	28'	15'	10'				
6"	58'	28'	15'	10'	80'	38'	20'	10'				
8"	68'	30'	18'	10'	90'	40'	20'	10'				
10"	80'	38'	20'	10'	110'	50'	25'	15'				
12"	98'	40'	20'	10'	130'	58'	30'	18'				
16"	120'	50'	25'	15'	168'	70'	35'	20'				
20"	150'	68'	30'	18'	200'	88'	40'	20'				
24"	180'	70'	35'	20'	210'	90'	45'	25'				
30"	190'	80'	40'	20'	280'	108'	50'	28'				
36"	220'	98'	48'	28'	0	0	0	0				
42"	248'	108'	50'	28'	0	0	0	0				
48"	280'	120'	60'	30'	0	0	0	0				

Restrained lengths for valves, dead ends and branches from tees shall be the same as for 90° (degree) bends

Restrained Length In Feet For Reducer										
PIPE DIAMETER (INCHES)	3"	4"	6"	8"	10"	12"	16"	20"	24"	30"
3"	0	0	0	0	0	0	0	0	0	0
4"	40'	0	0	0	0	0	0	0	0	0
6"	50'	45'	0	0	0	0	0	0	0	0
8"	78'	70'	40'	0	0	0	0	0	0	0
10"	98'	90'	70'	40'	0	0	0	0	0	0
12"	120'	118'	100'	78'	40'	0	0	0	0	0
16"	160'	158'	140'	128'	100'	70'	0	0	0	0
20"	200'	198'	188'	170'	150'	130'	78'	0	0	0
24"	180'	158'	150'	140'	138'	120'	90'	50'	0	0
30"	188'	180'	188'	180'	170'	160'	120'	108'	70'	0
36"	228'	220'	218'	210'	208'	198'	180'	168'	128'	70'
42"	248'	240'	238'	230'	228'	220'	208'	180'	158'	108'
48"	288'	280'	248'	240'	238'	230'	218'	198'	178'	128'

Length of restrained joint for larger diameter pipe

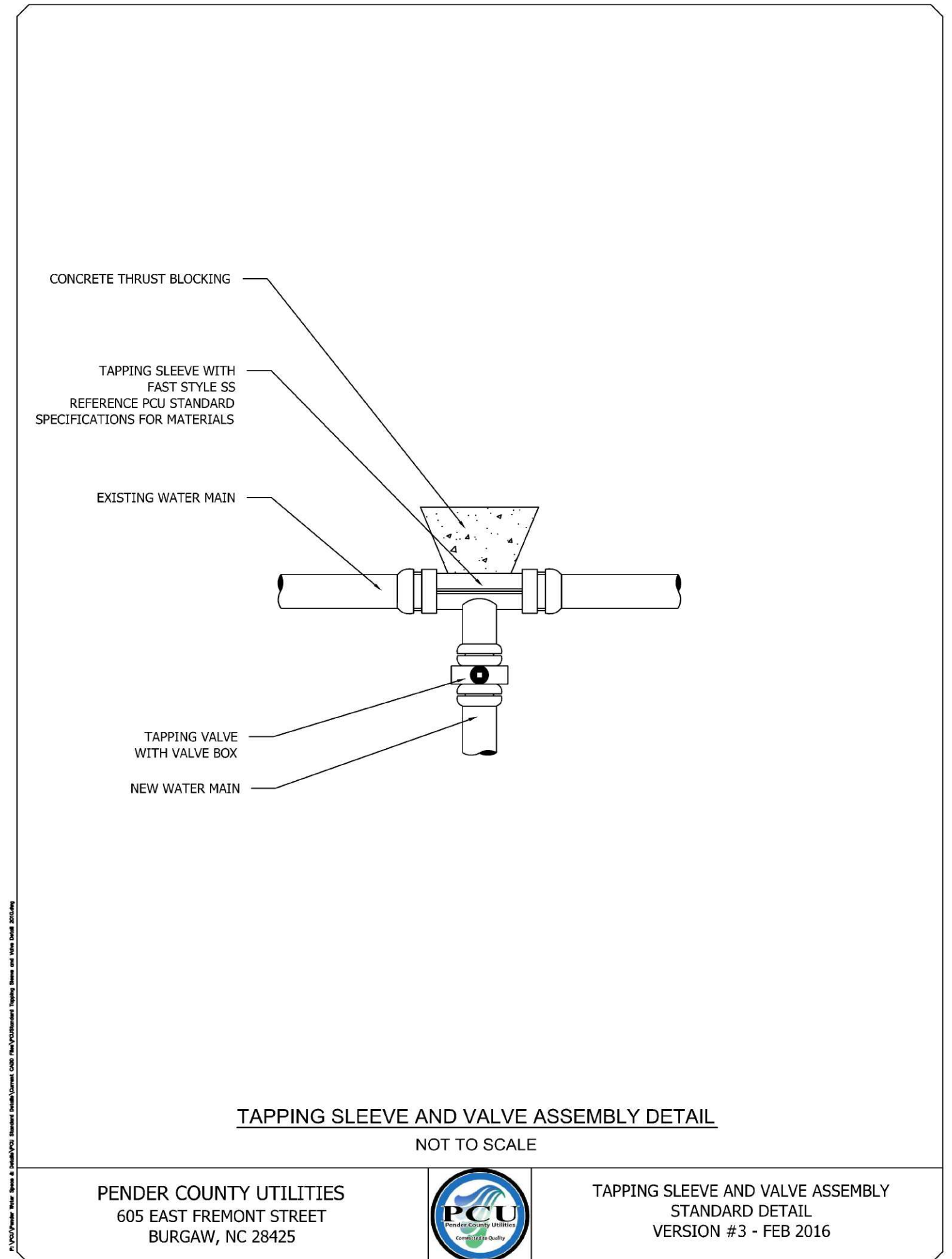
NOTES:

- PENDER COUNTY STANDARD RESTRAINT METHOD IS MEGA LUGS, UNLESS SPECIFICALLY APPROVED BY PCU IN WRITING.
- ALL FITTINGS AND JOINTS SHALL BE RESTRAINED JOINT.
- "L" ABOVE IS GIVEN IN FEET FROM FITTING JOINT.

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PCU

RESTRAINED JOINT TABLE STANDARD DETAIL
VERSION #2 - OCTOBER 2023



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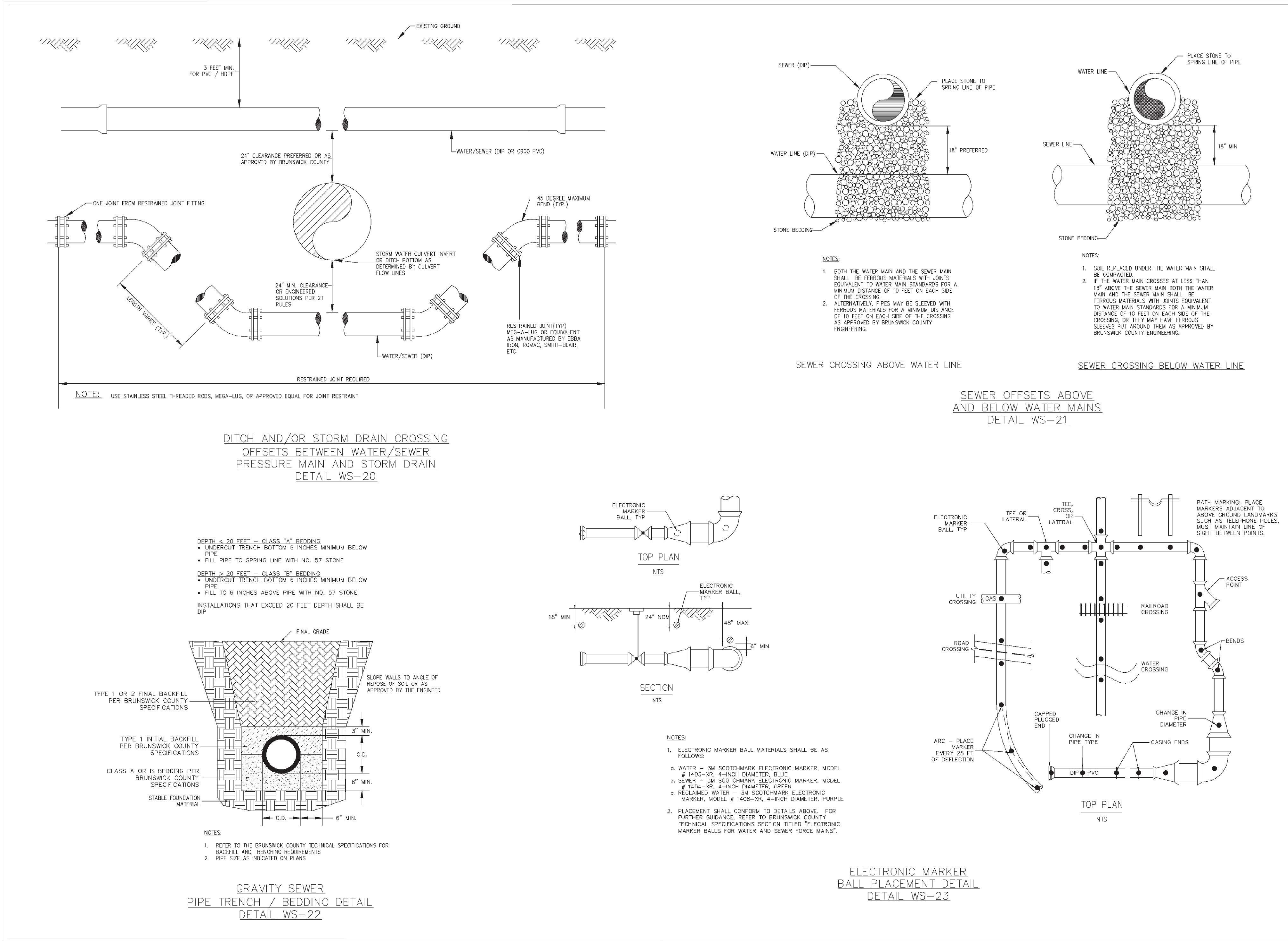
Issue Date: OCTOBER 20, 2025

PCU DETAILS 2

Rev.	Date	Notes

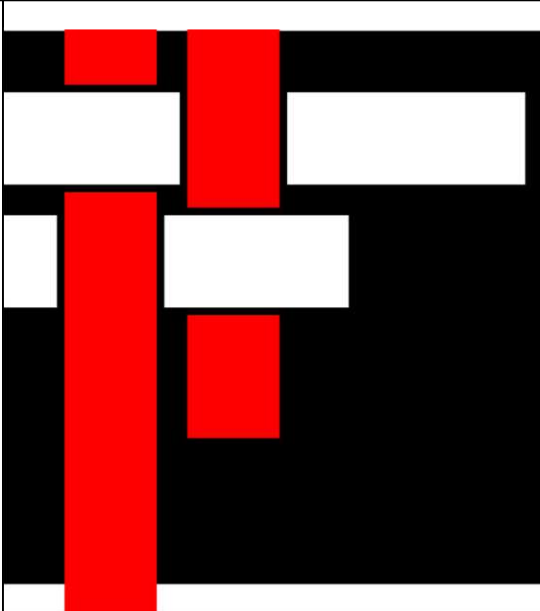
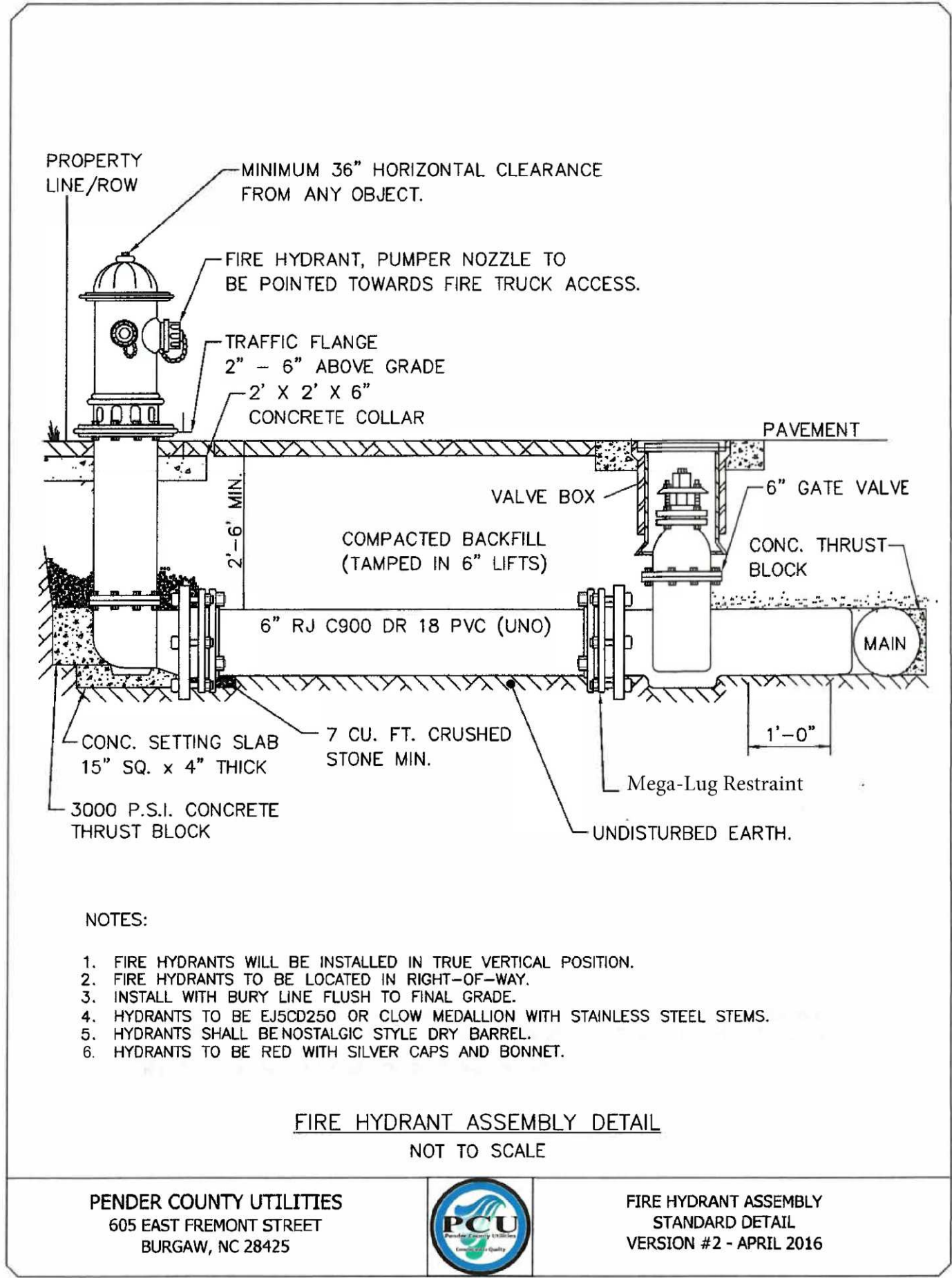
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GENERAL WATER & SEWER DETAIL
VERSION # 1 - APRIL 2024

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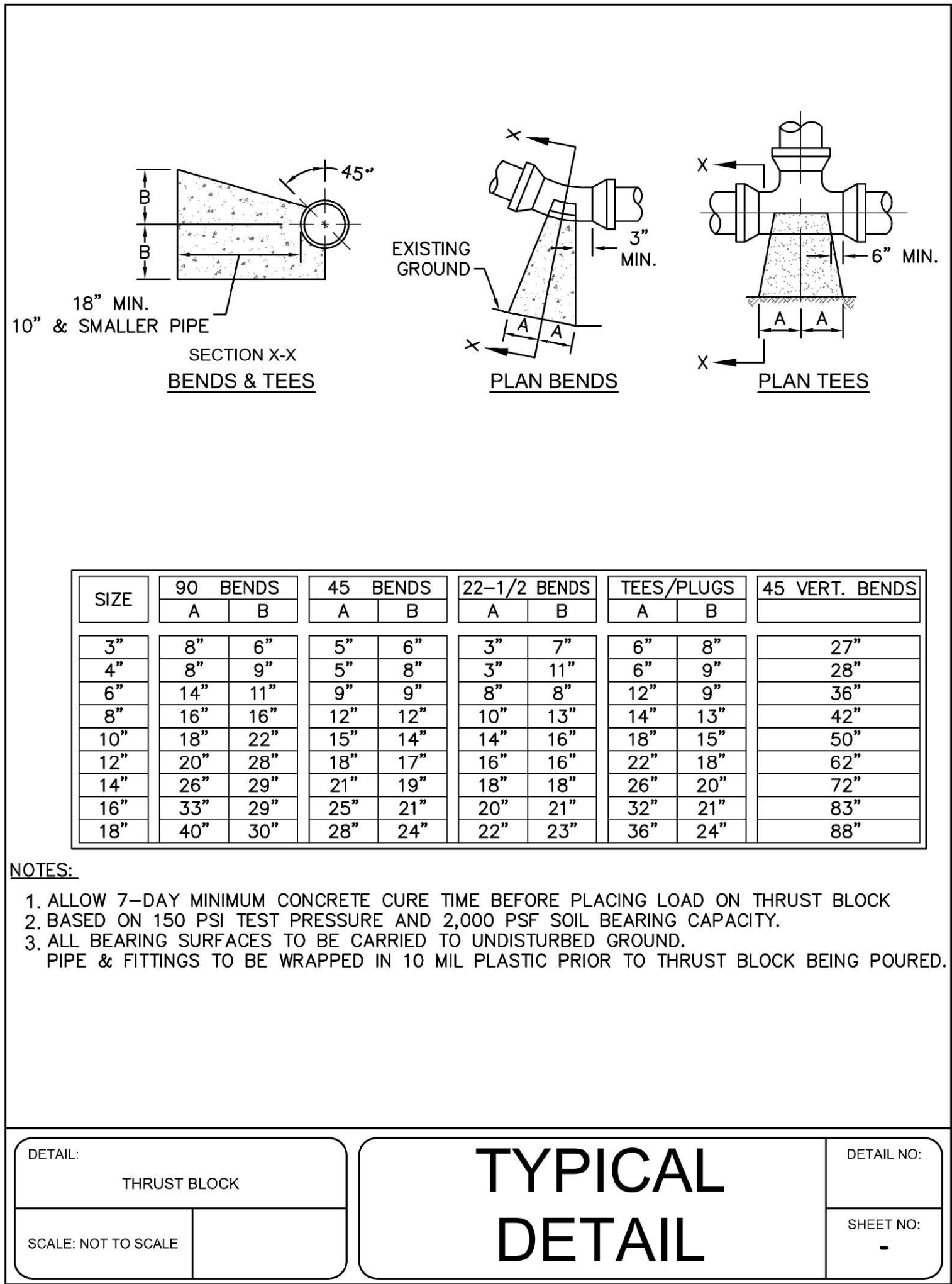
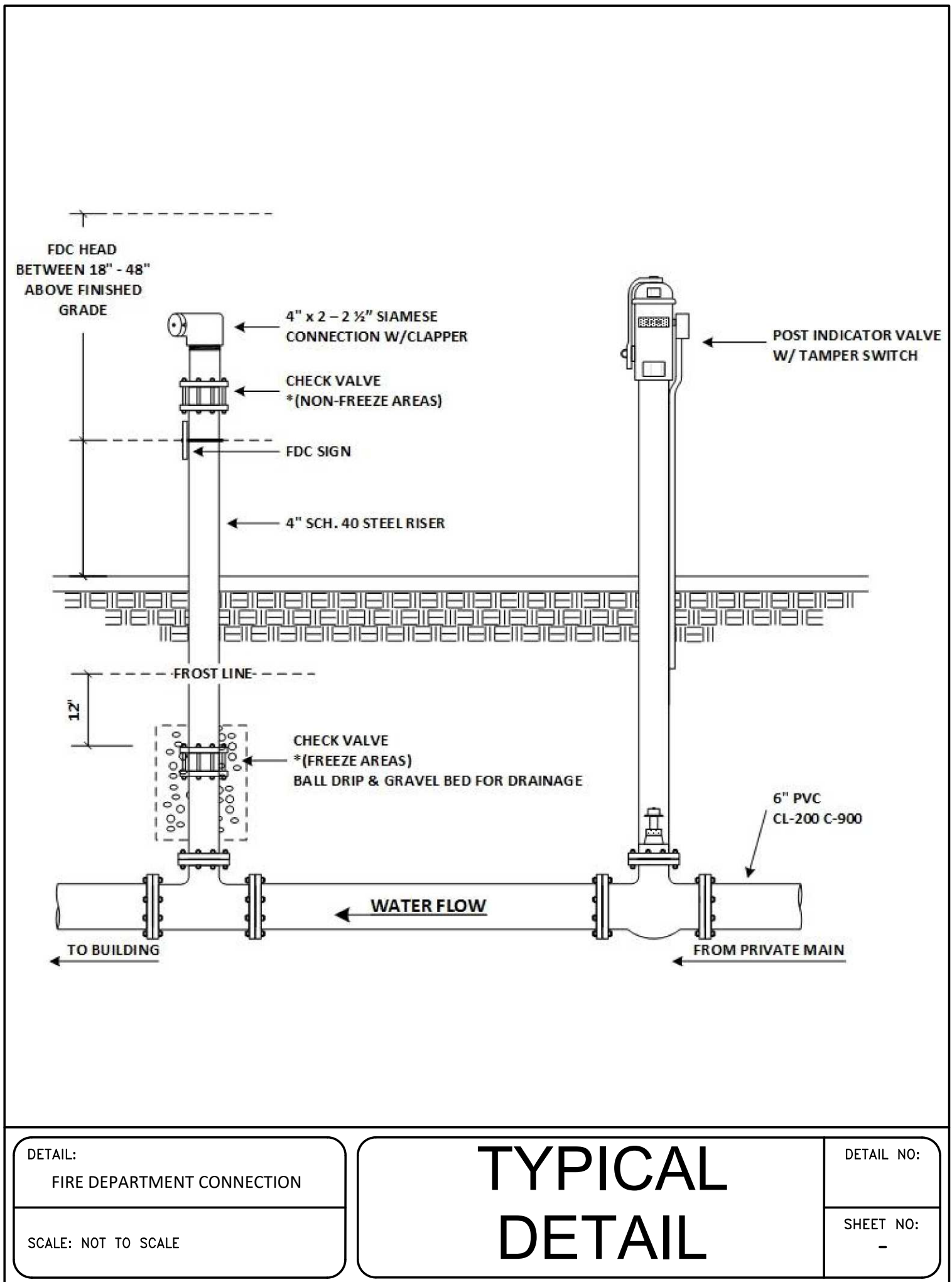
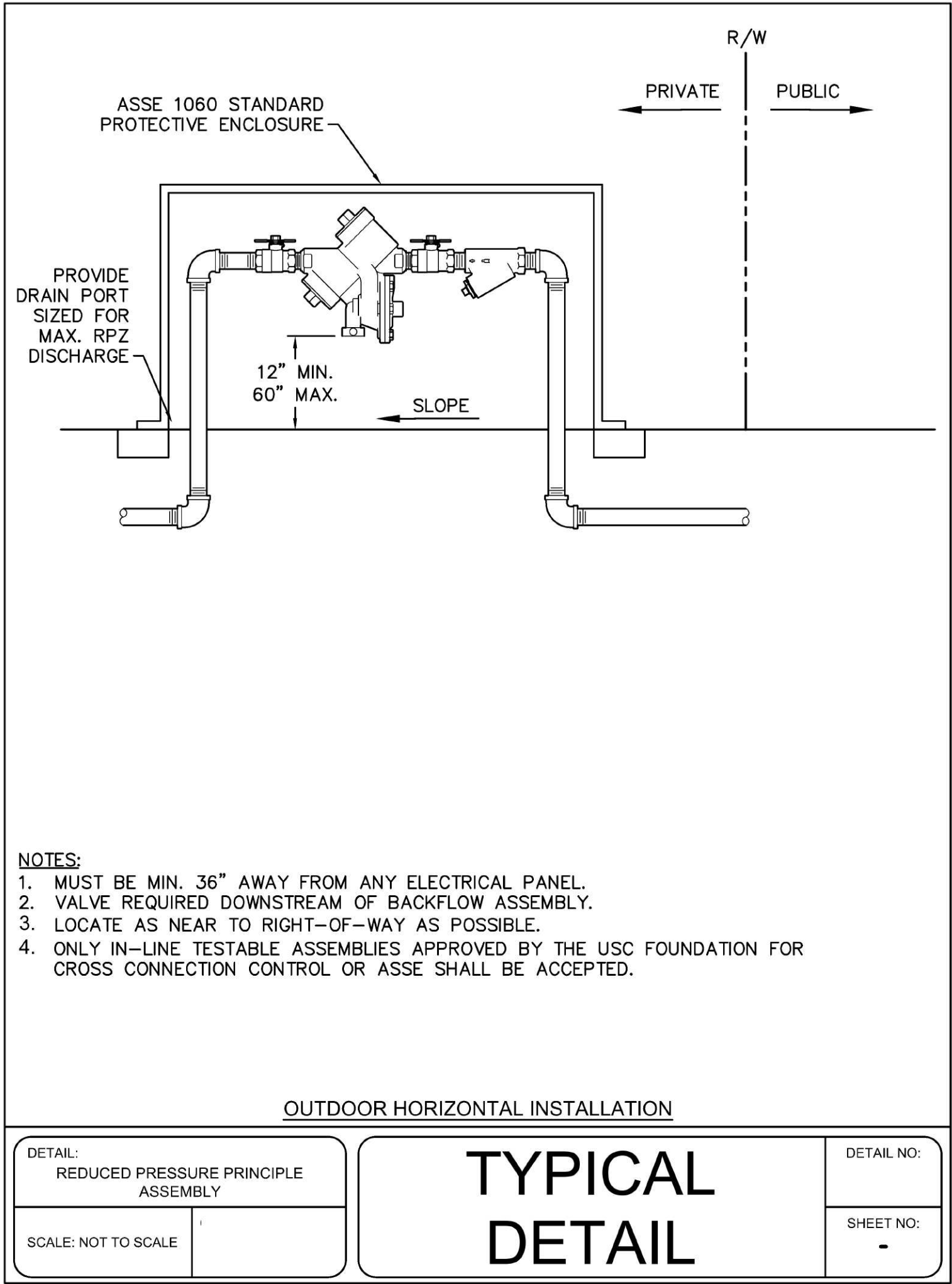
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Issue Date: OCTOBER 20, 2025

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DETAILS 3**

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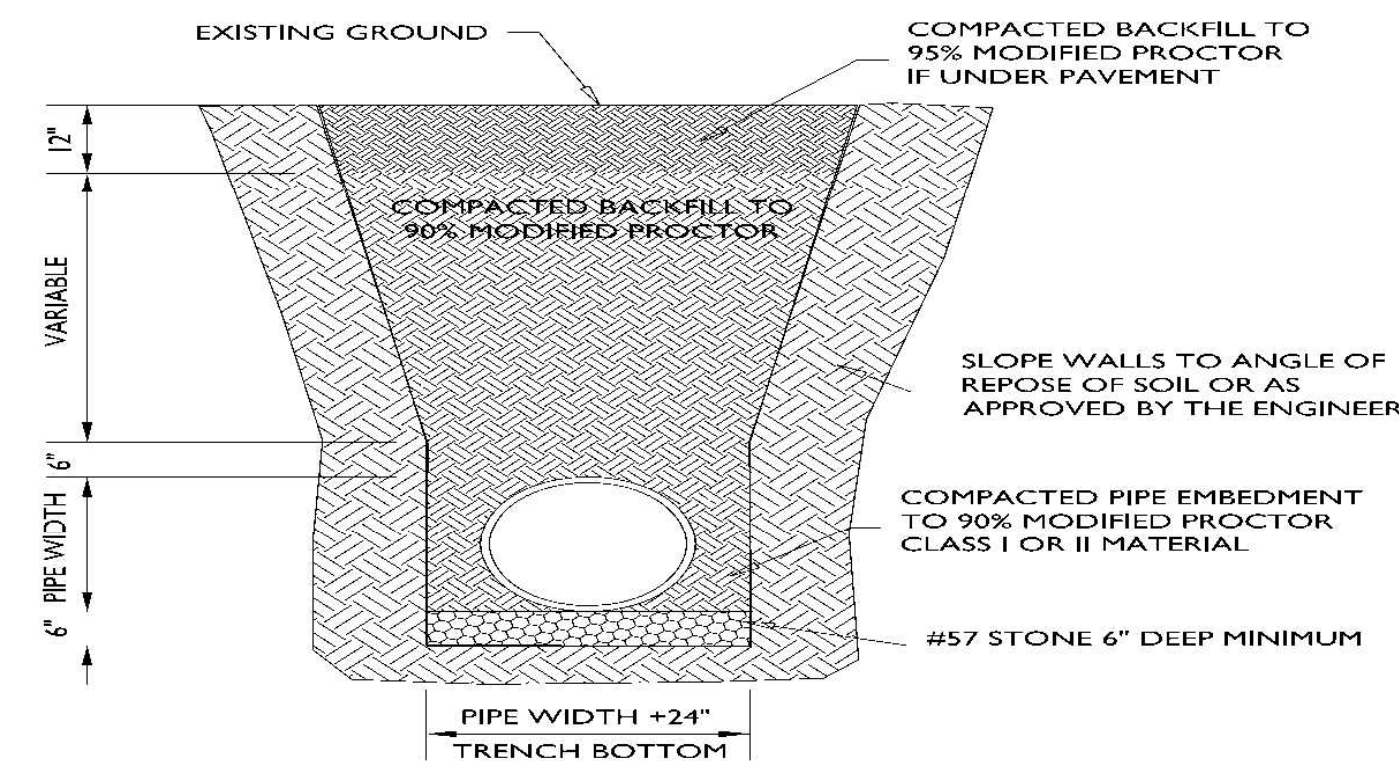
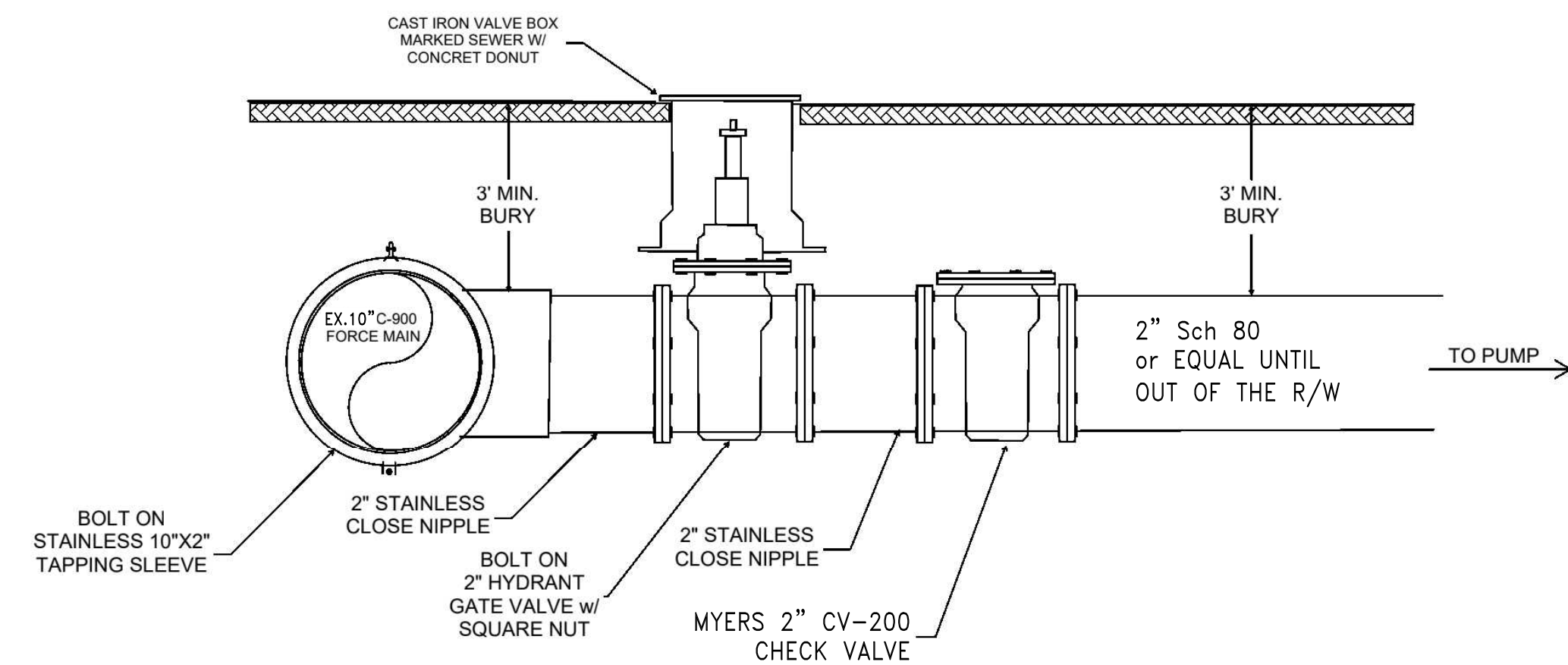
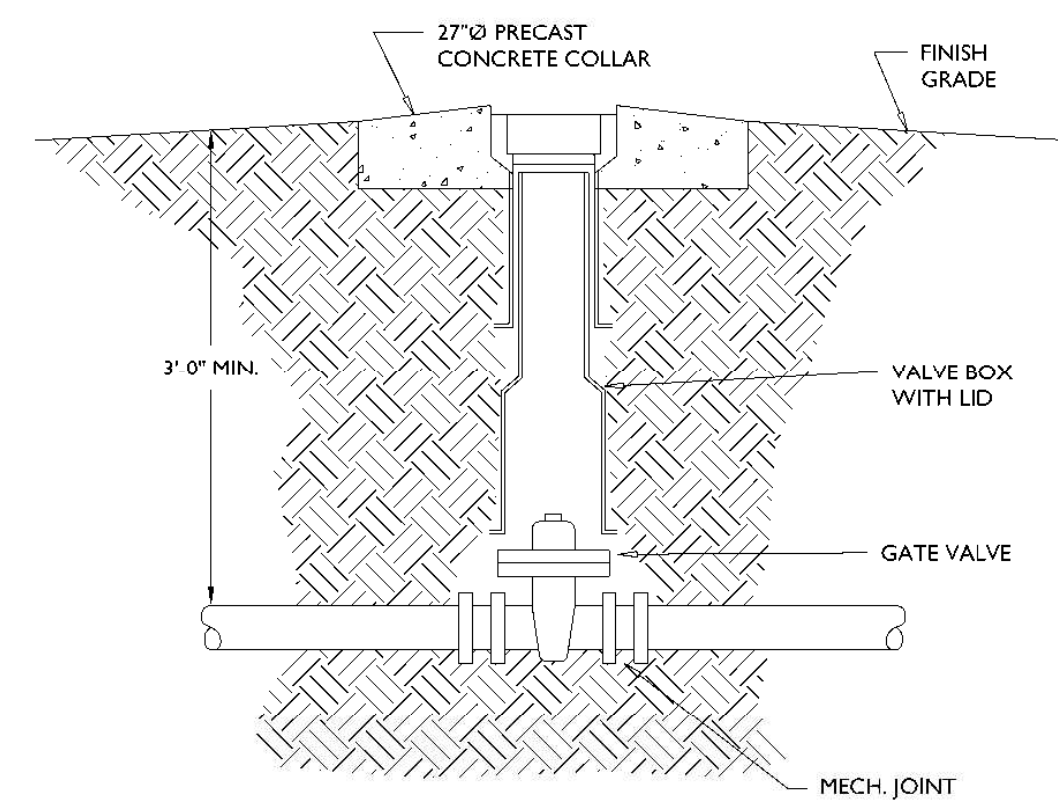
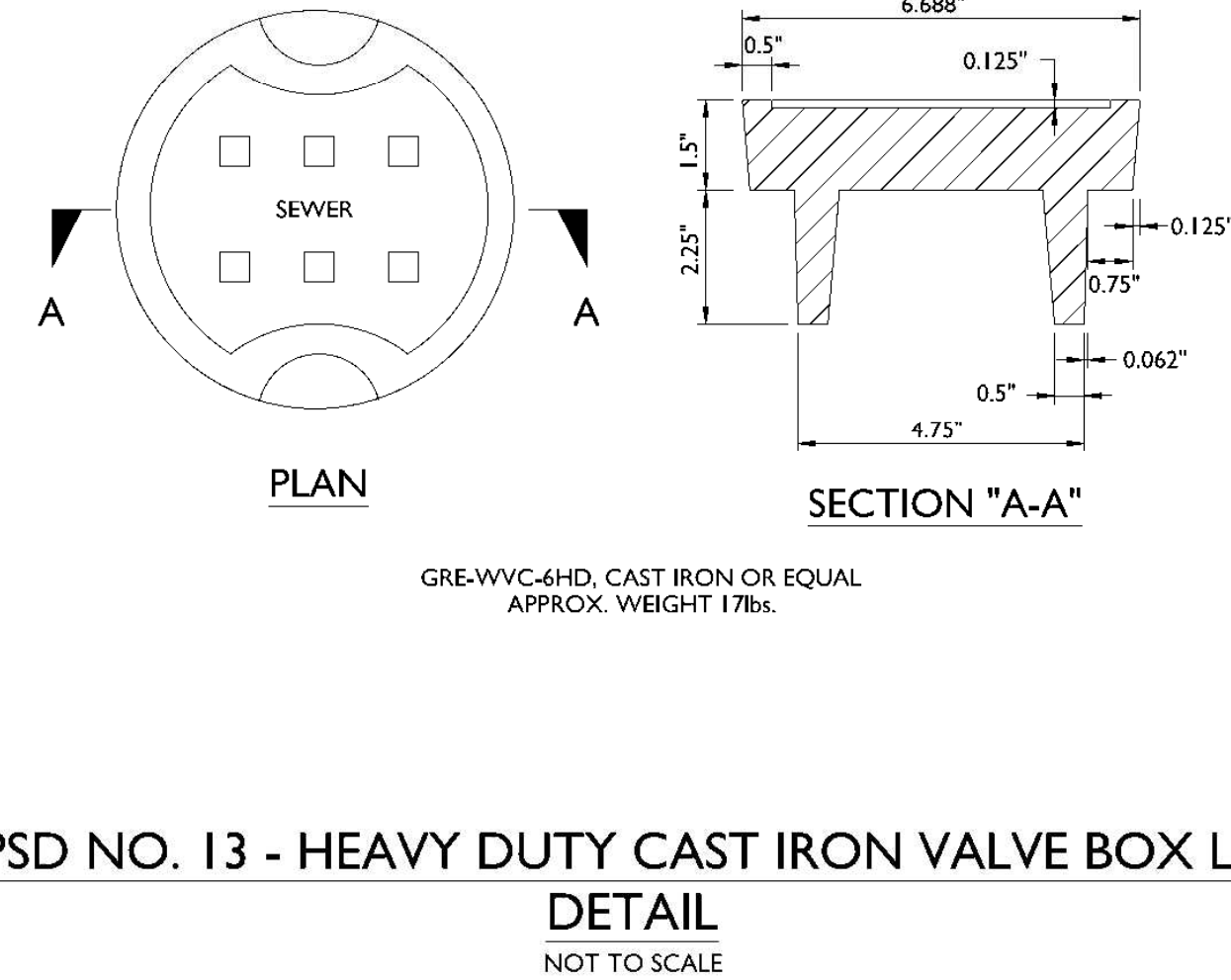
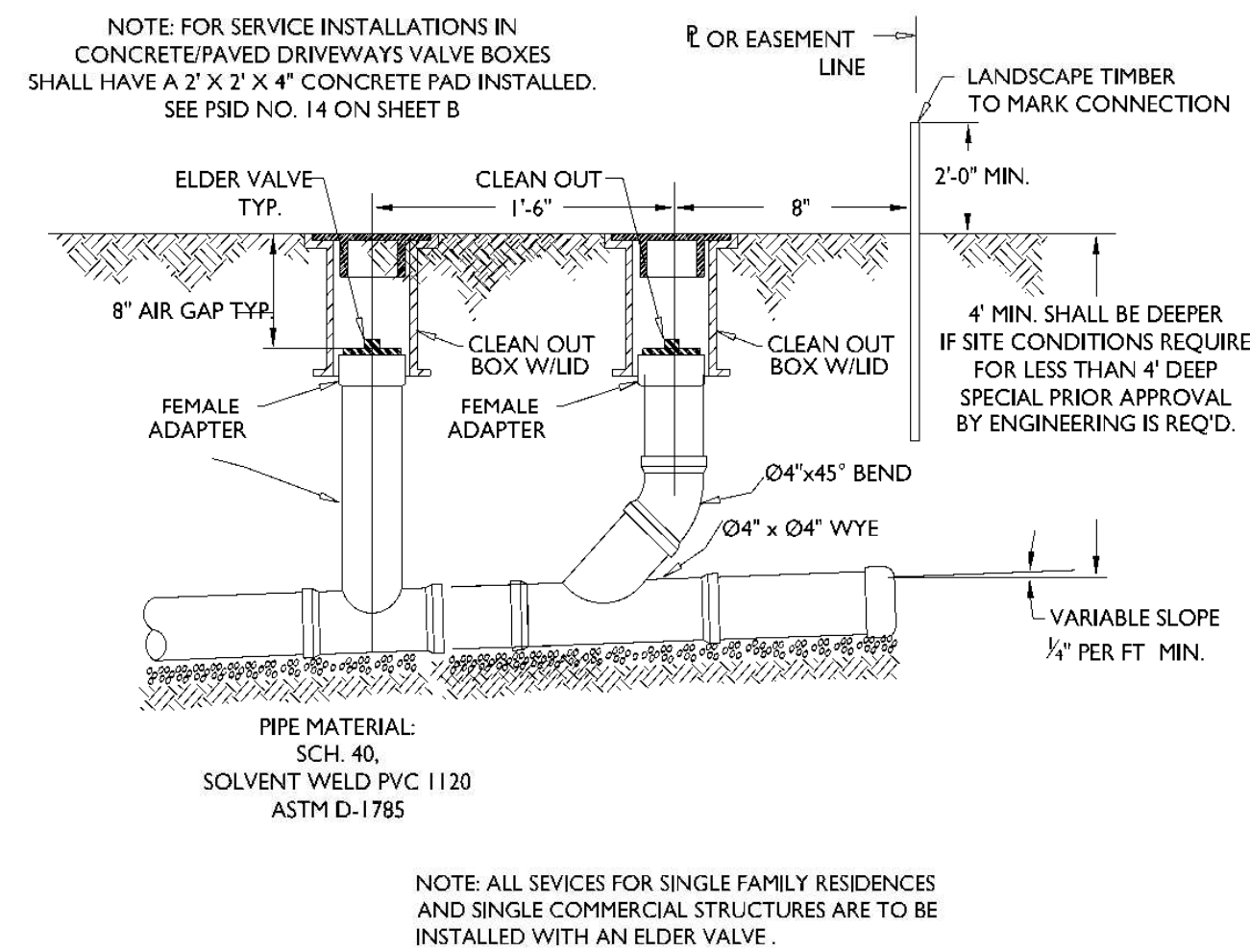
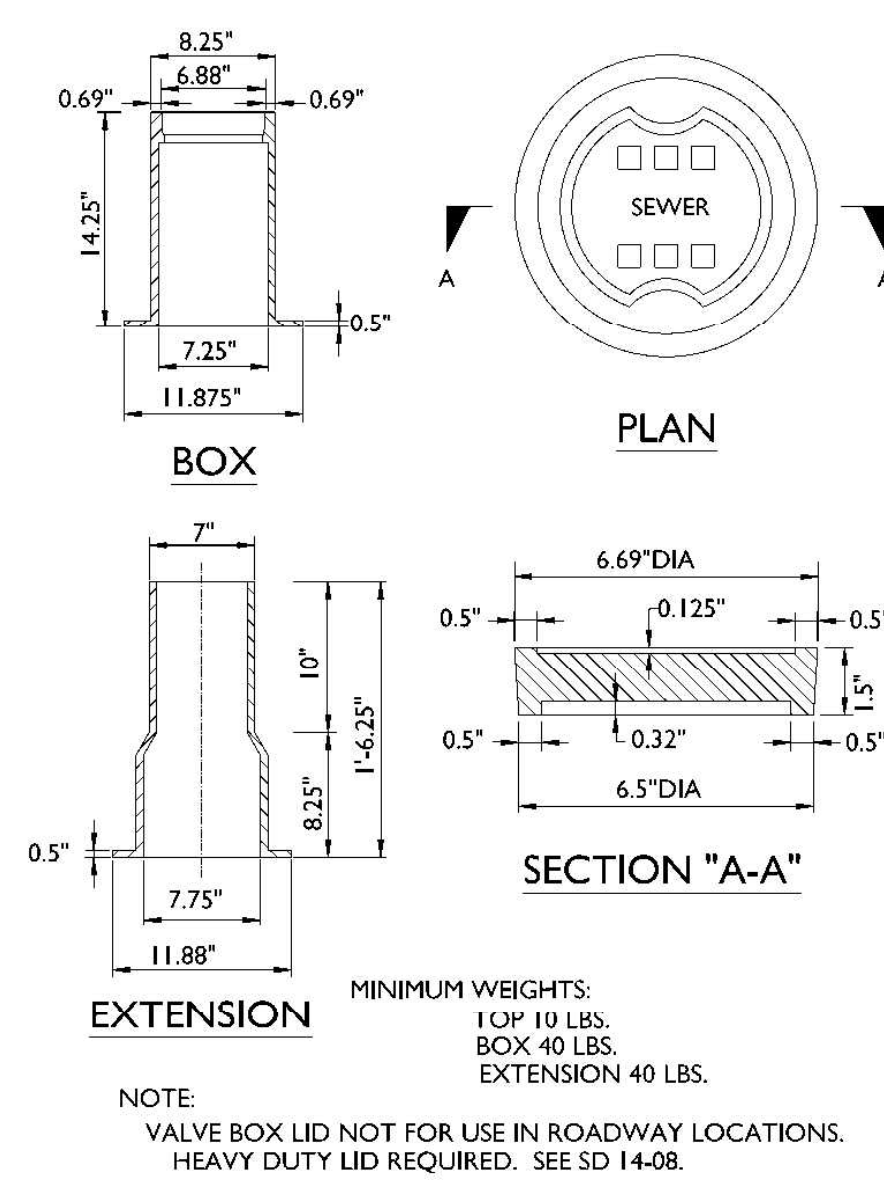
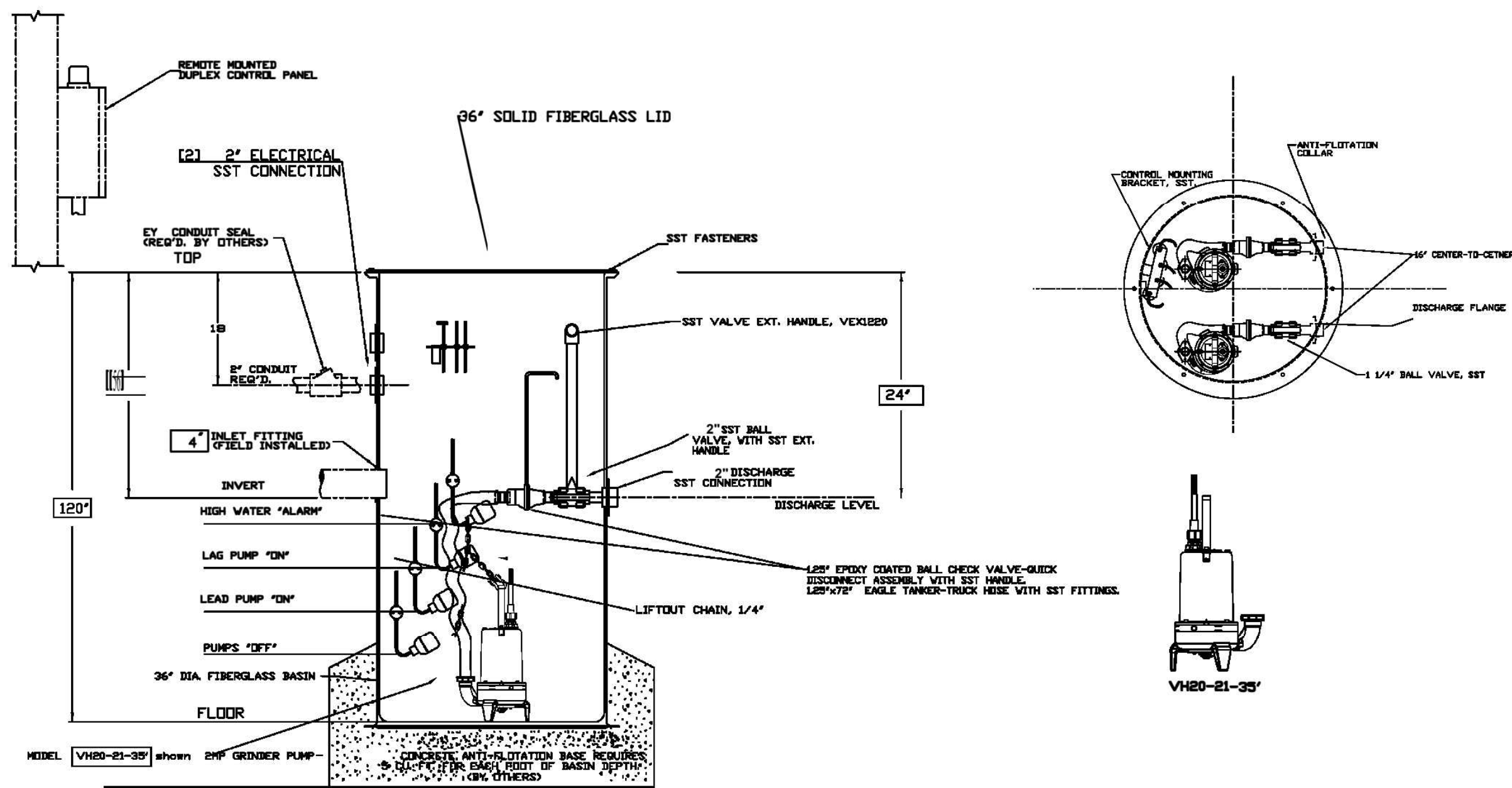
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DETAILS 4

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- NOTES:

1. SEPARATE METER BASE IS NOT REQUIRED IF PRIVATELY OWNED.
2. ALL CONDUITS TO BASIN SHALL BE INSTALLED TO ENSURE POSITIVE DRAINAGE TOWARD BASIN.
3. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
4. NUMBER AND SIZE OF CONDUITS INTO BASIN SHALL BE AS REQUIRED BY CONTROLLER MANUFACTURER AND THE NATIONAL ELECTRIC CODE.
5. ALL CONDUITS TO BE PLUGGED WITH DUCT SEAL AT BOTH ENDS.
6. ALL WIRING FROM THE BASIN (INCLUDING PUMP WIRE AND FLOAT WIRES) SHALL BE CONTINUOUS TO PUMP CONTROL PANEL (NO SPLICES).
7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF DUPLEX CONTROL PANEL, GENERATOR CONNECTION, AND PUMPS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASE.
8. LIFT STATION SITE PLAN DETAIL IS GENERIC. CONTRACTOR SHALL CONSULT WITH BUILDER/OWNER TO CONFIRM PROPOSED LAYOUT.
9. ELECTRICAL SERVICE TO STATION SHALL BE 208 VOLT, SINGLE PHASE POWER.
10. CELLULAR AUTO DIALER SHALL BE AS APPROVED BY SEWER PROVIDER IF REQUIRED.
11. CONTRACTOR SHALL VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES TO INSURE THAT SETBACKS BY 15A NCAC 02T.0305 (F) CAN BE MET.
12. THE DEPTH AND LOCATION OF EXISTING FORCE MAIN SHALL BE DETERMINED BY CONTRACTOR AND REVIEWED BY SEWER PROVIDER.
13. THE PUMP STATION RIM SHALL BE SEALED. THE CONTROL PANEL AND VENT SHALL BE LOCATED 2' ABOVE THE BASE FLOOD ELEVATION.
14. CONTRACTOR SHALL FURNISH MATERIALS AND LABOR CONSISTENT WITH SEWER PROVIDER APPROVED SPECIFICATIONS.
15. NO SEWER APPURTENANCE SHALL BE LOCATED WITHIN 100 FEET OF ANY EXISTING WELL.
16. PRIOR TO SCHEDULING THE TAP OF THE SEWER MAIN, ALL PARTS FOR THE TAP MUST BE VERIFIED TO BE OF PLURIS SANDARD.
17. PRIOR TO TAPPING THE SEWER MAIN, THE TAPPING SLEEVE AND GATE VALVE MUST BE PRESURE TESTED, AFTER WHICH THE TAP CAN BE MADE, AND THE COUPON RETRIEVED.
18. AFTER INSTALLATION OF THE SEWER MAIN AND CHECK VALVE, THEY WILL NEED TO BE PRESURE TESTED AS WELL.

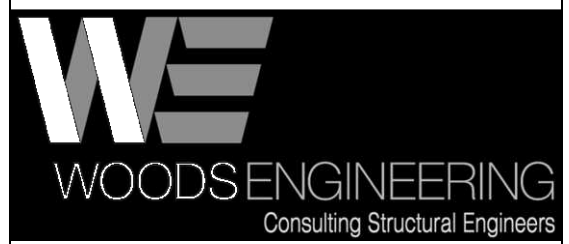


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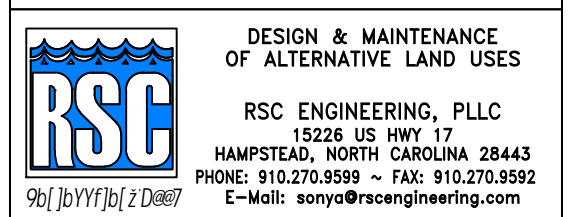
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DETAILS 1

Rev.	Date	Notes

U9.5





SHOEBOX LED
(Meets Dark Sky Criteria)

LED
(Light-emitting diode)

Mounting height

Color

Pole

Applications

150 | 220 | 420 | 530 watts

25', 30', 35'

Black | Bronze | Gray | White

Fiberglass (1 or 2 fixtures per pole)
Decorative tapered metal
Decorative square metal

Neighborhoods
Roadways
Shopping centers

Light source: LED (white)

Wattage: 150 | 220 | 420 | 530 watts

Light pattern: IES Type V Type IV (forward throw) | Type III

IESNA cutoff classifications: Full-cutoff

BUG rating: 150W Type III = B2U03 / Type IV = B3U04 / Type V = B5U03
220W Type III = B2U04 / Type IV = B3U04 / Type V = B4U03
420W Type IV = B3U05 / Type V = B5U05
530W Type IV = B3U05 / Type V = B5U05

Color temperature: 4,000K

POLE AVAILABLE	MOUNTING HEIGHT	COLOR
Round tapered decorative metal	35'	Black, Bronze
Decorative square metal	25' and 30'	Black, Bronze, Gray, White
Fiberglass	25' and 30'	Black (1 or 2 fixtures per pole) Gray (1 or 2 fixtures per pole)

right distribution pattern

Type V

Type IV

Type III

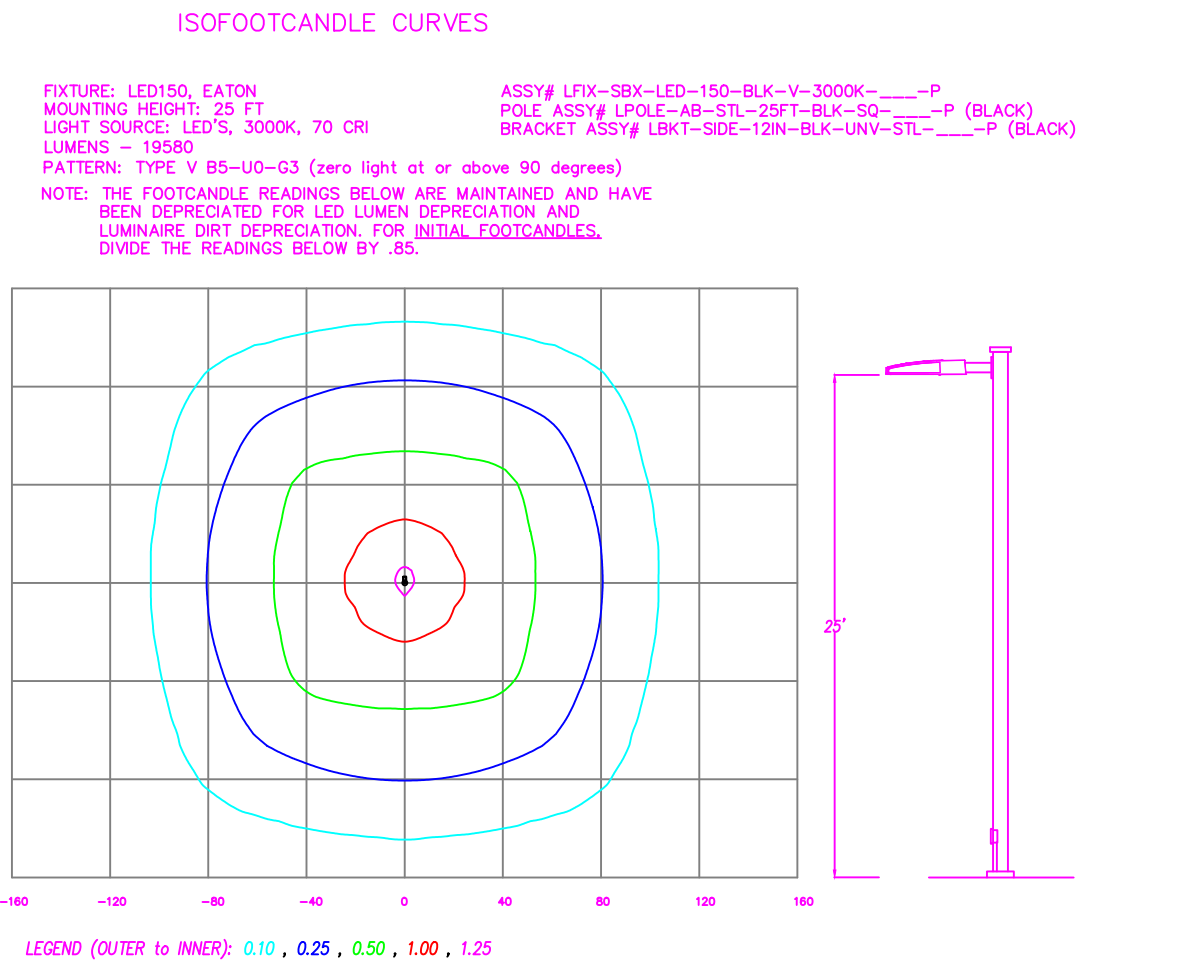
FEATURES	BENEFITS
Turnkey operation	Provides hassle-free installation and service
Little or no installation cost	Press up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance, electricity & warranty included	Eliminates high and unexpected repair bills
One low monthly cost on your electric bill	Convenience and savings for you

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Statistics					
Description	Symbol	Avg	Max	Min	Max/Min
Parking	✕	1.2 fc	2.0 fc	0.5 fc	4.0:1

Schedule					
Symbol	Label	QTY	Description	Number Lamps	Lamp Output
✕ ○	A	4	LED 150w Shoebox — Type V — 3000K	48	400

REV	DATE	REVISION	BY
REV B	6/17/2025	UPDATED THE SITE DRAWING	ST

NO.	DATE	REVISION	BY
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LIGHTING DESIGN TOLERANCE

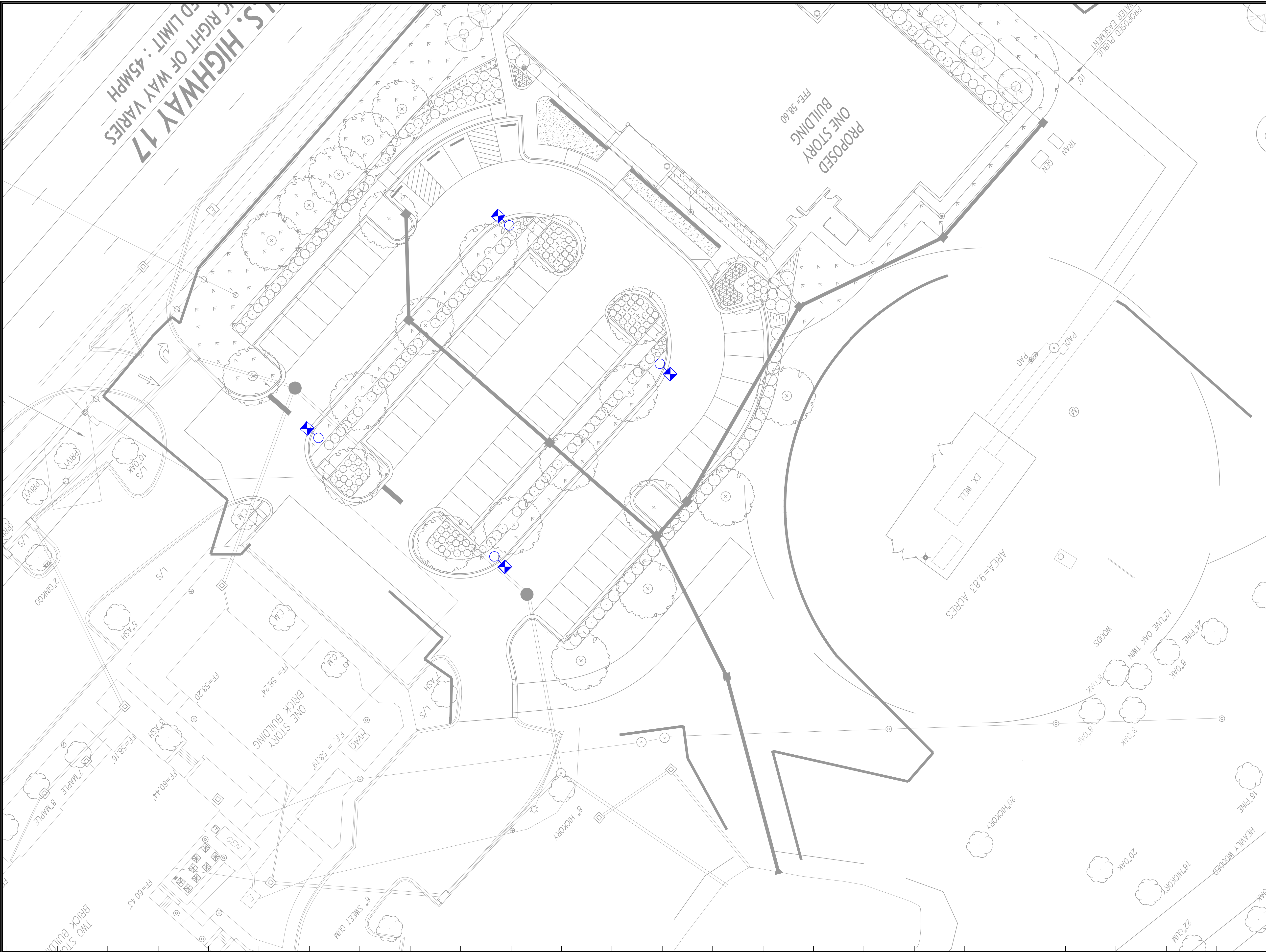
The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.




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Designed by	DUKE ENERGY PROGRESS LIGHTING SOLUTIONS	
Reviewed by	S. Thapa	Scale 1" = 20'
Date	6/17/2025	Size Drawing size "D"
Description	LED Shoebox	
Drawing No.	25-0111B	Sht. 1 OF 1





SHOEBOX LED
(Meets Dark Sky Criteria)

LED
(Light-emitting diode) **150** | 220 | 420 | 530 watts

Mounting height **25**, 30', 35'

Color **Black**, Bronze | Gray | White

Pole Fiberglass (1 or 2 fixtures per pole)
Decorative tapered metal
Decorative square metal

Applications Neighborhoods
Roadways
Shopping centers

Light source: LED (white)
Wattage: **150** | 220 | 420 | 530 watts
Light pattern: **IES Type V** | Type IV (forward throw) | Type III
IESNA cutoff classifications: Full-cutoff
BUG rating: **150W** Type III = B2U0G3 / Type IV = B3U0G4 / **Type V = B5U0G3**
220W Type III = B2U0G4 / Type IV = B3U0G4 / Type V = B4U0G3
420W Type IV = B3U0G5 / Type V = B5U0G5
530W Type IV = B3U0G5 / Type V = B5U0G5


Color temperature: 4,000K

POLE AVAILABLE	MOUNTING HEIGHT	COLOR
Round tapered decorative metal*	35'	Black, Bronze
Decorative square metal	25 and 30'	Black , Bronze, Gray, White
Fiberglass	25' and 30'	Black (1 or 2 fixtures per pole) Gray (1 or 2 fixtures per pole)

FEATURES	BENEFITS
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Maintenance, electricity & warranty included	Eliminates high and unexpected repair bills
One low monthly cost on your electric bill	Convenience and savings for you

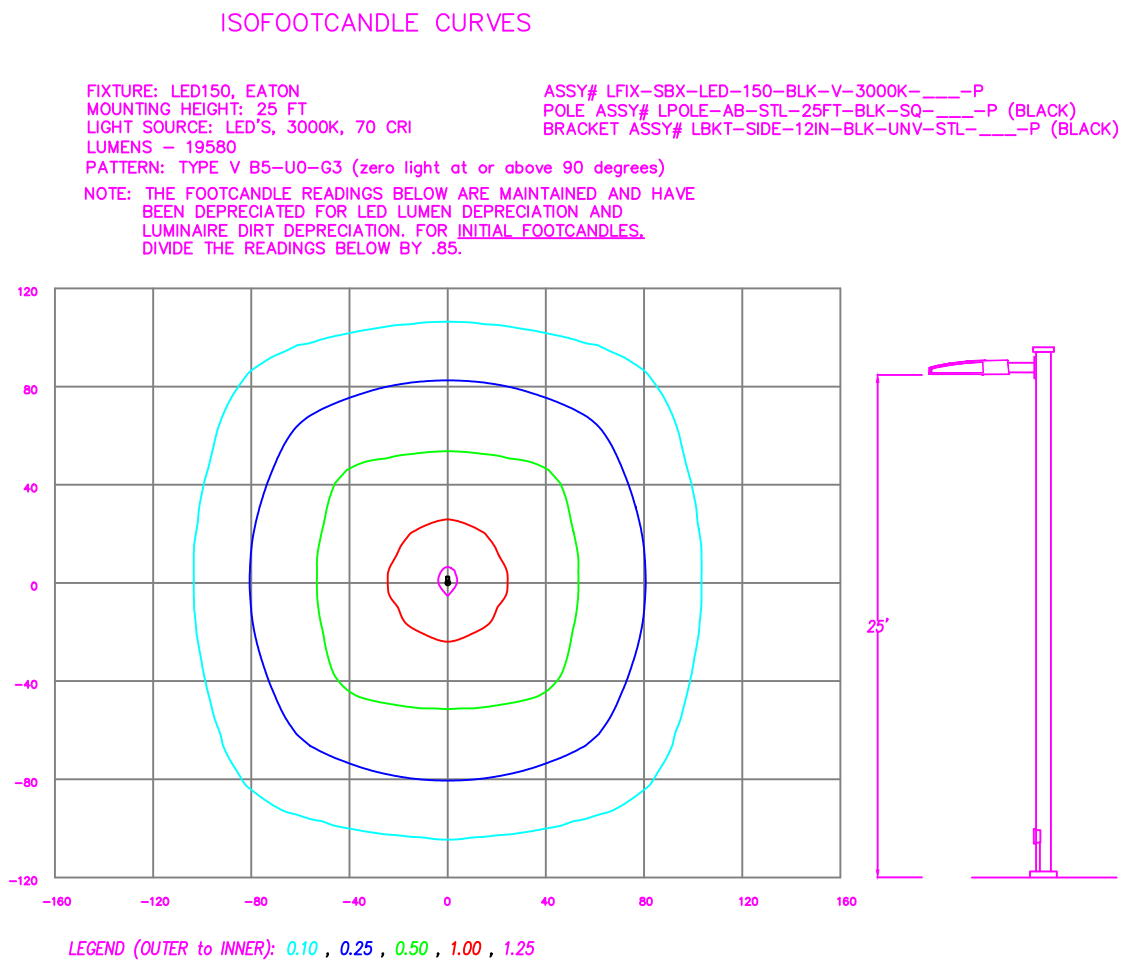
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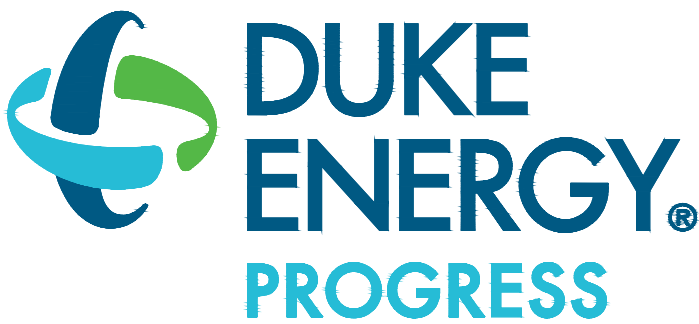
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Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking	✕	1.2 fc	2.0 fc	0.5 fc	4.0:1	2.4:1

Schedule						
Symbol	Label	QTY	Description	Number Lamps	Lamp Output	LLF
✕ ○	A	4	LED 150w Shoebox - Type V - 3000K	48	400	0.85

REV	NO.	DATE	REVISION	BY
REV B	6/17/2025	UPDATED THE SITE DRAWING		ST

LIGHTING DESIGN TOLERANCE

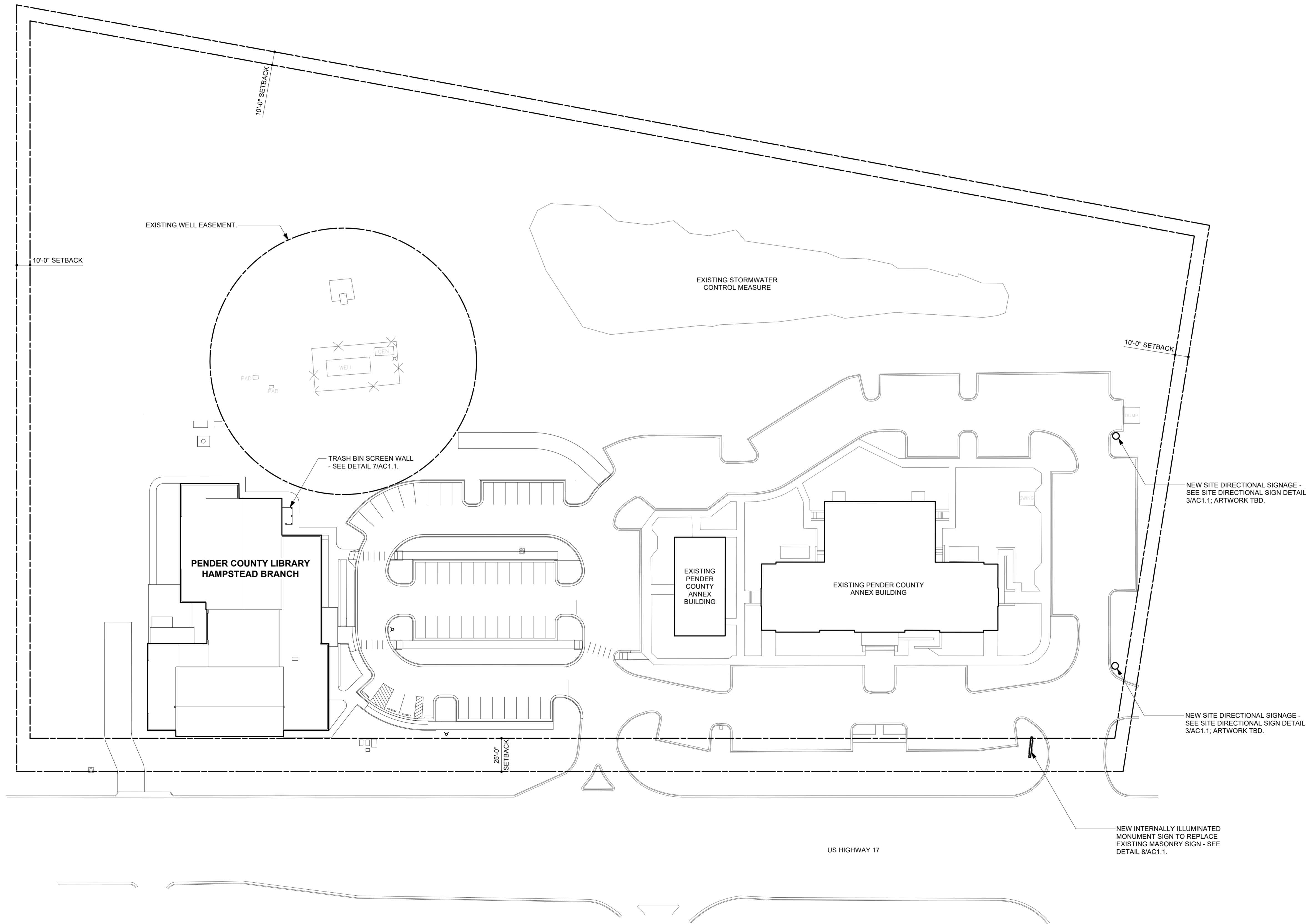
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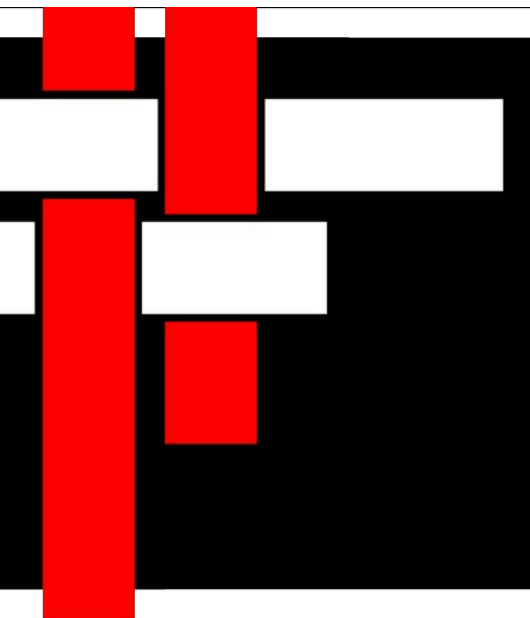
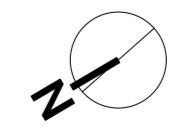
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Date	6/17/2025	Size Drawing size "D"
Description	LED Shoebox	
Drawing No.	25-0111B	Sht. 1 OF 1



1
AC1.0 Architectural Site Plan
Scale: 1" = 40'-0"



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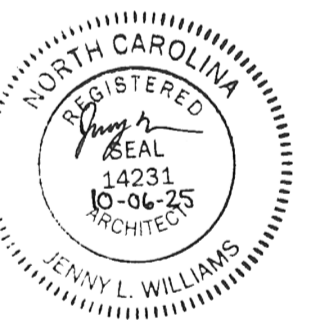
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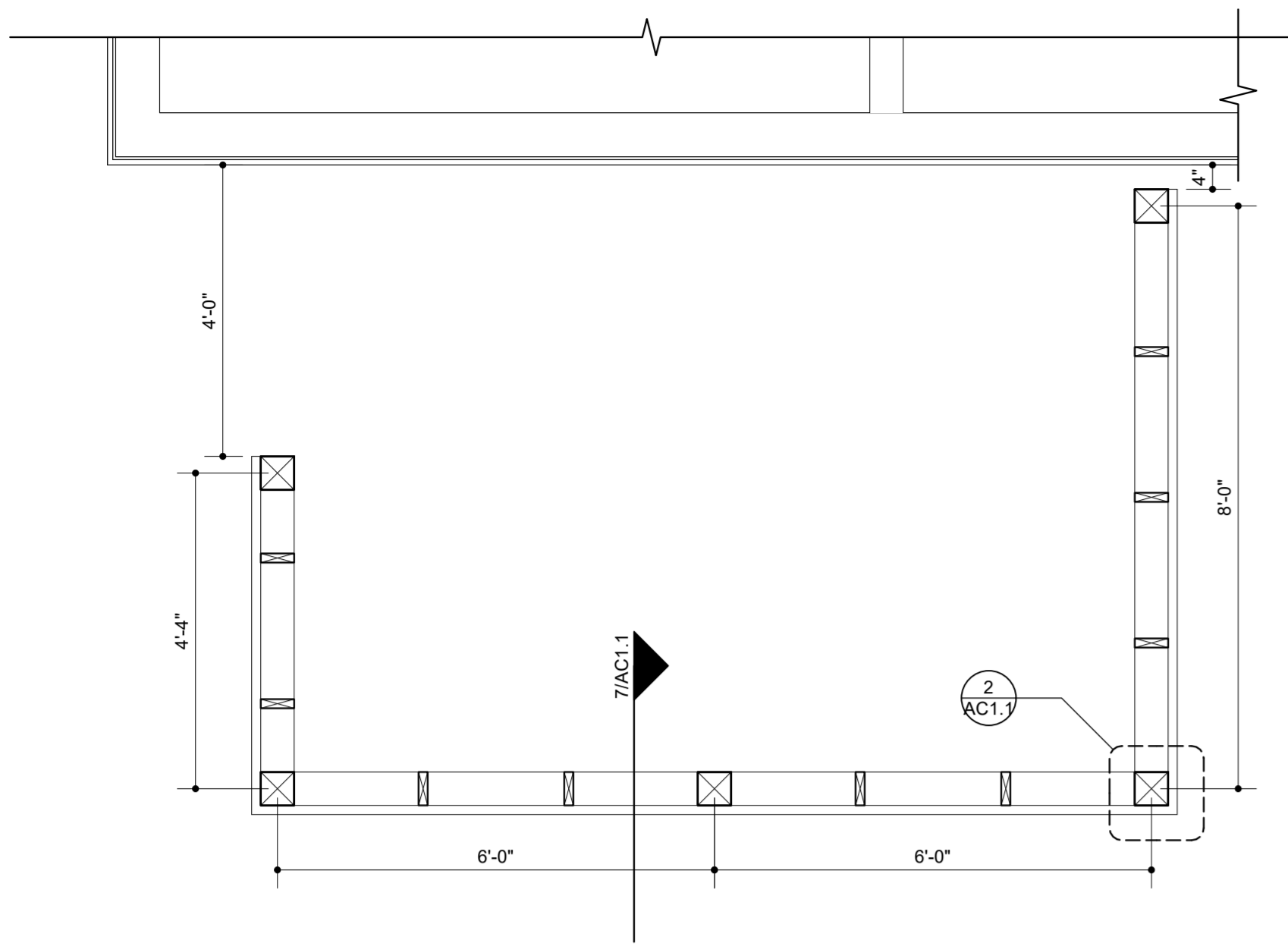
Construction Drawings

Issue Date: October 6, 2025

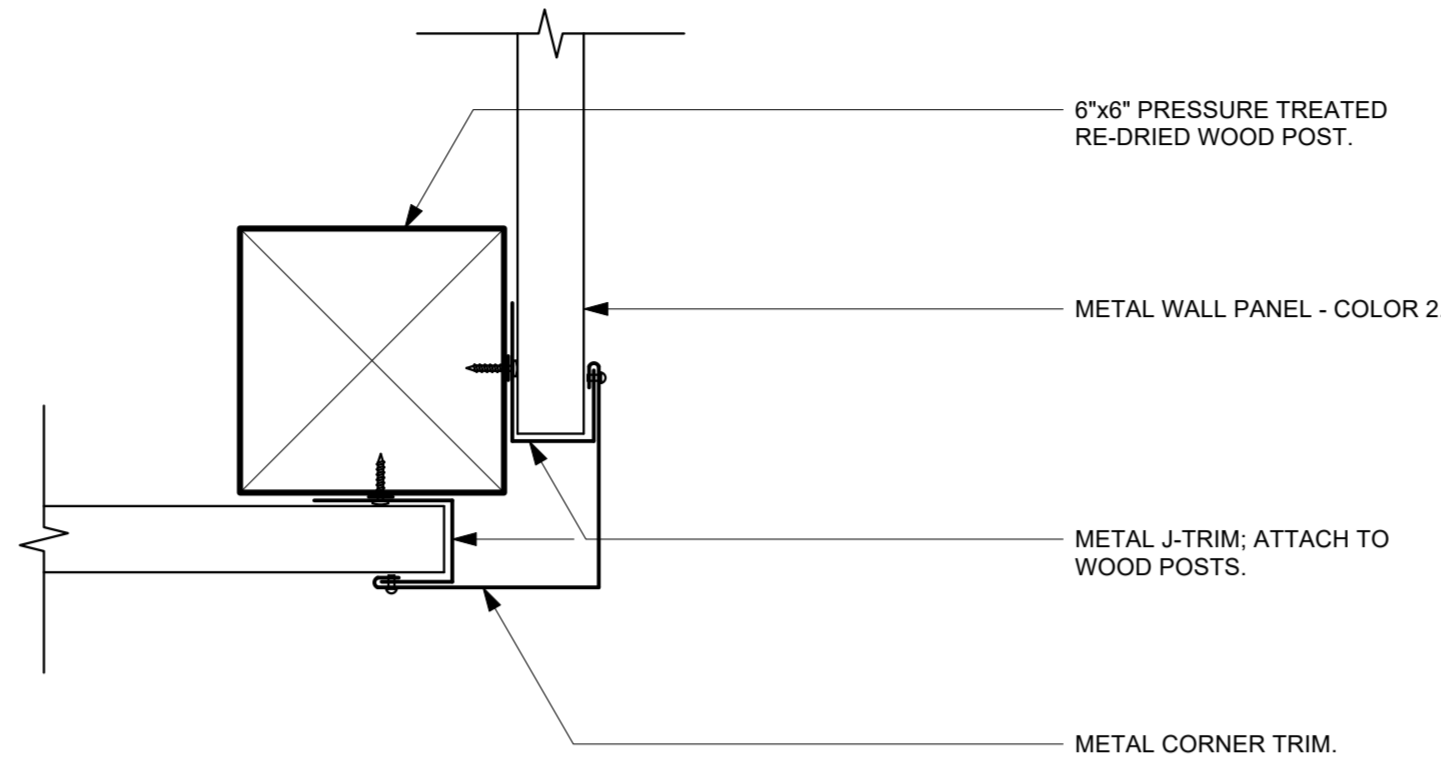
Architectural Site Plan

Rev.	Date	Notes

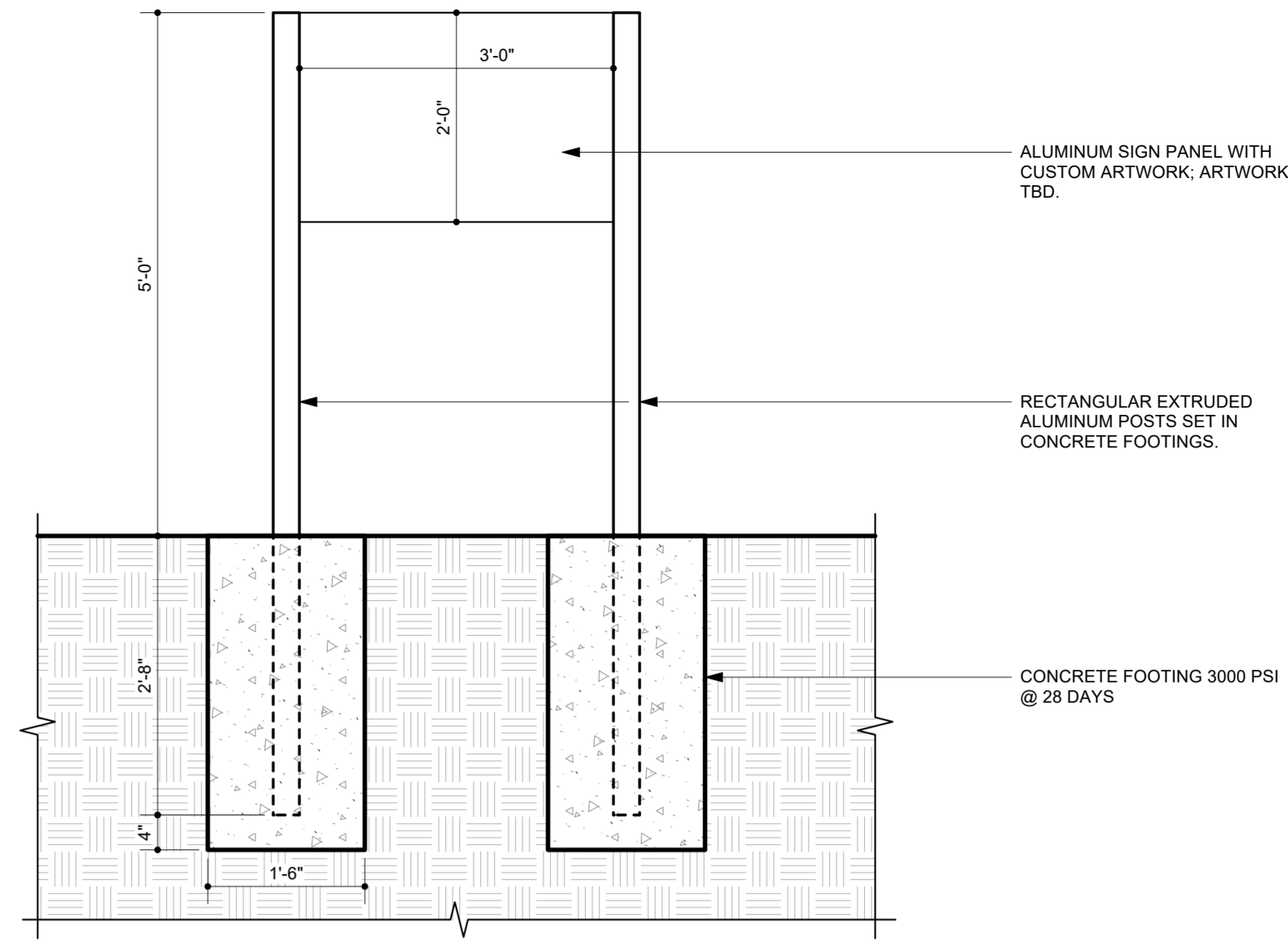
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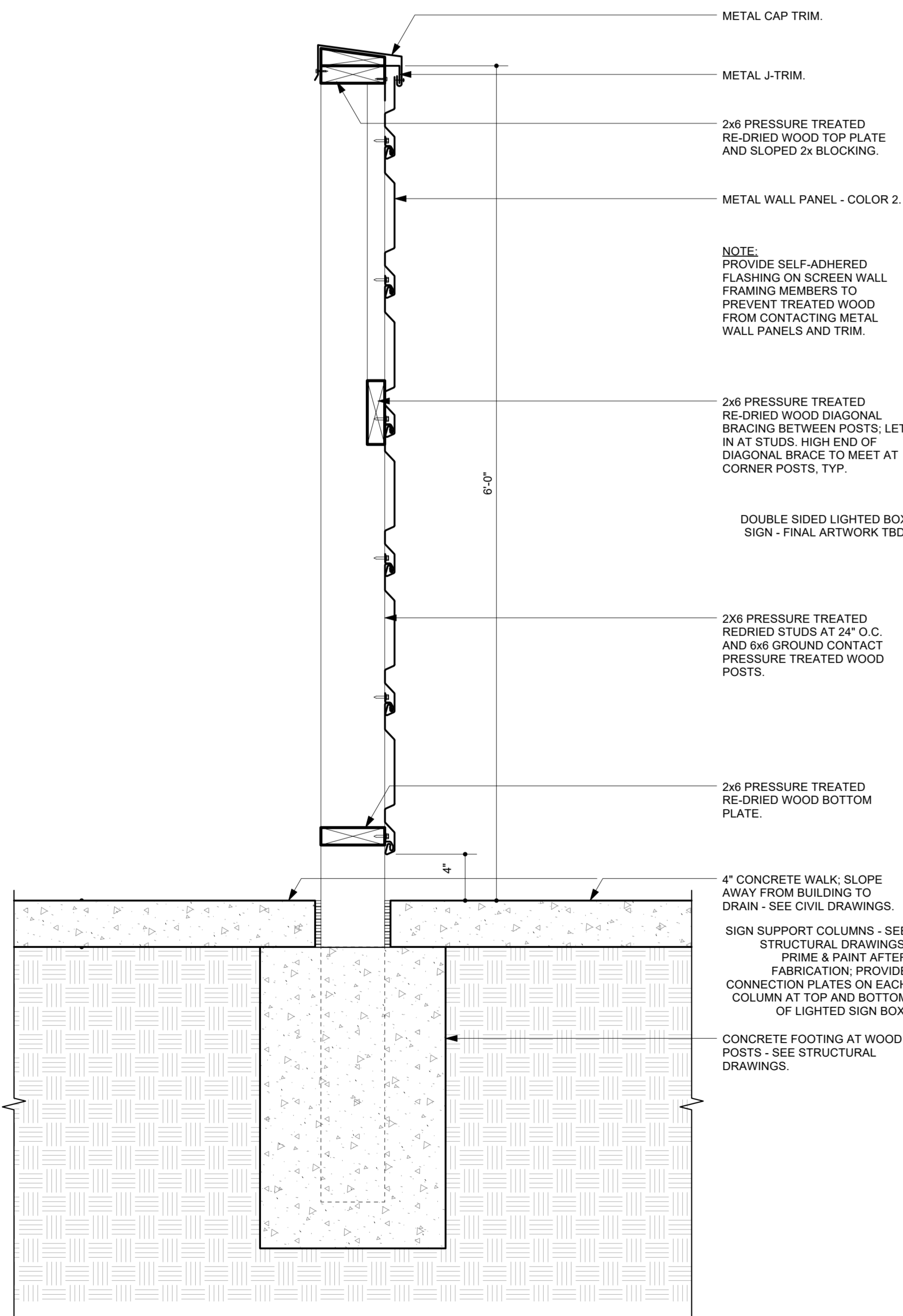
1 Enlarged Trash Bin Screen Wall Plan
Scale: 1/2" = 1'-0"



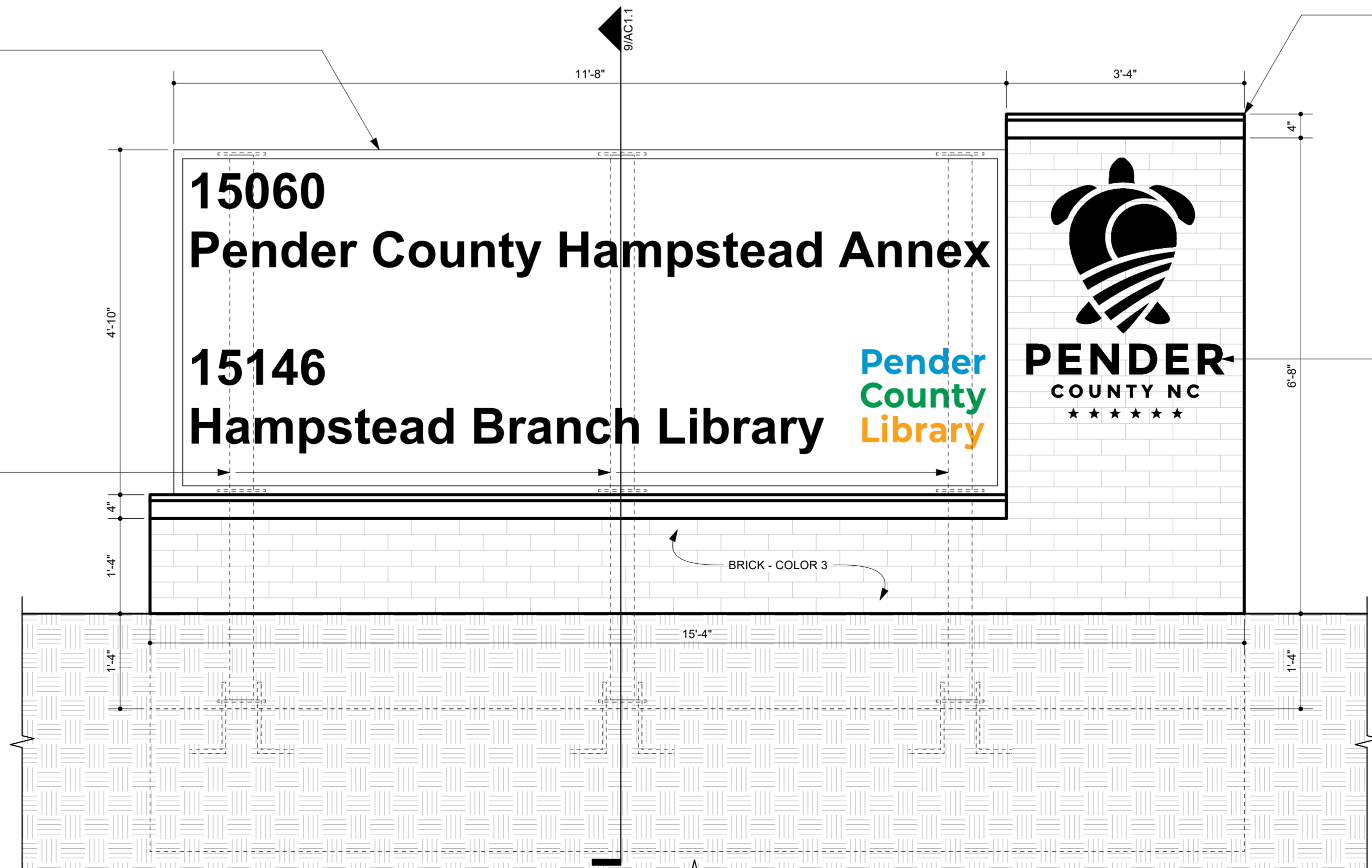
2 Trash Bin Screen Corner Detail
Scale: 3" = 1'-0"



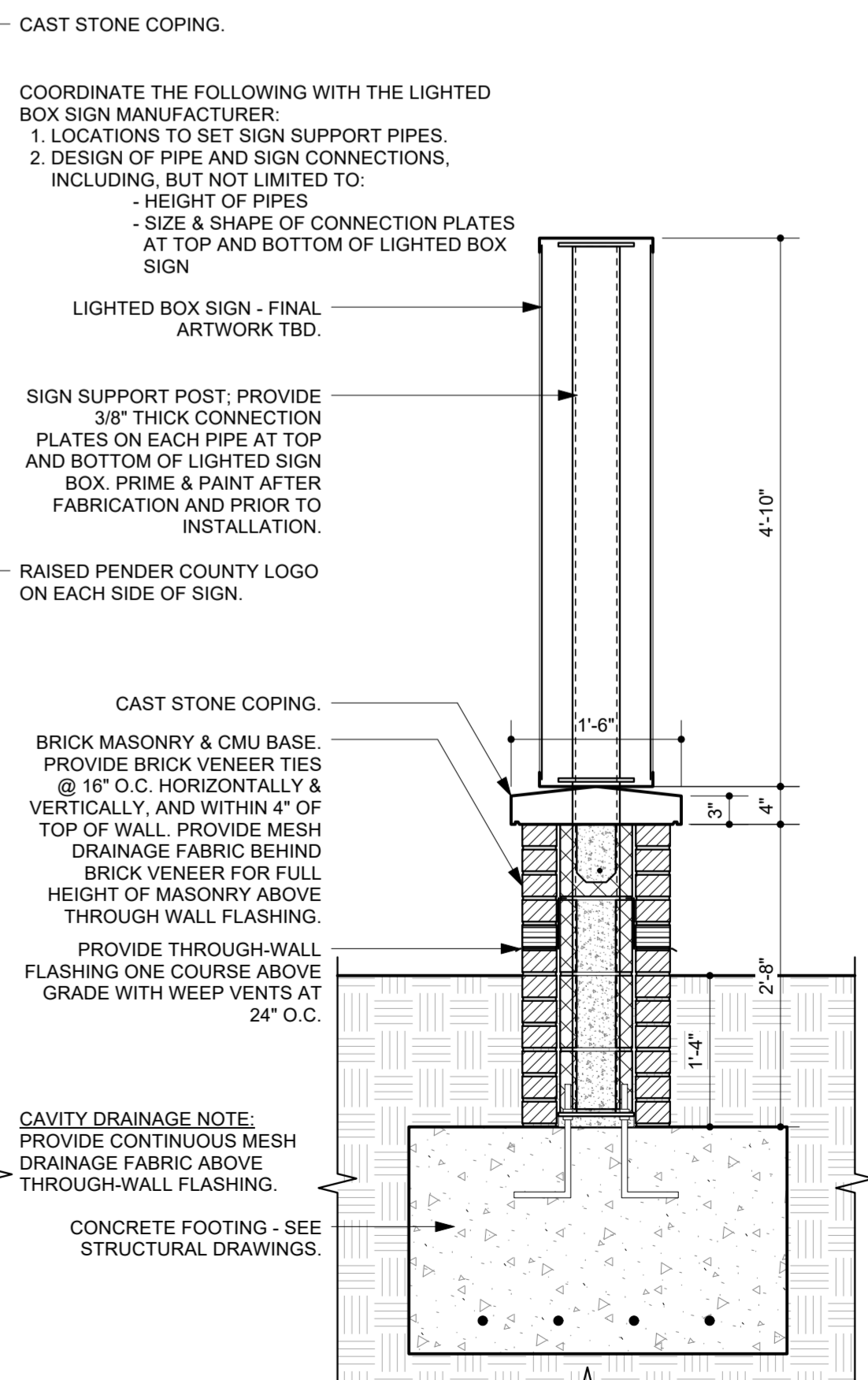
3 Site Directional Signage
Scale: 3/4" = 1'-0"



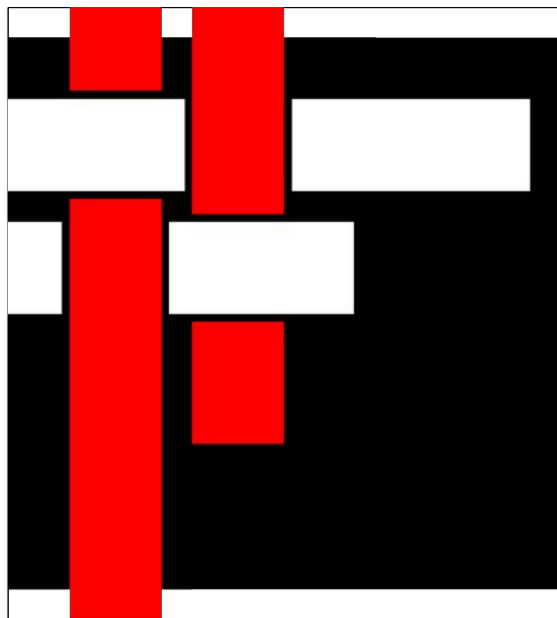
7 Typical Trash Bin Screen Wall Section
Scale: 1 1/2" = 1'-0"



8 Monument Sign Elevation
Scale: 3/4" = 1'-0"



9 Monument Sign Section
Scale: 3/4" = 1'-0"



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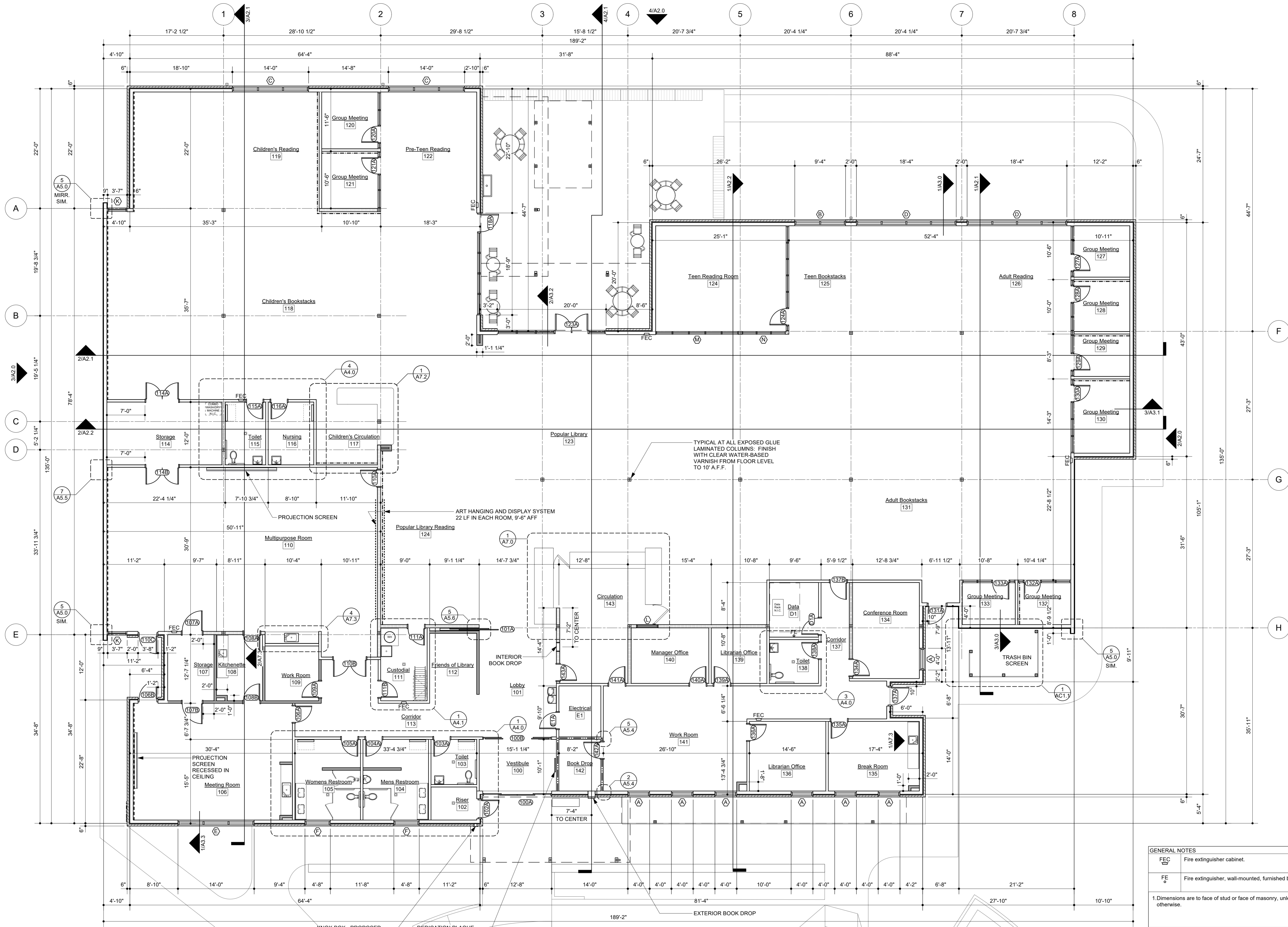
Construction Drawings

Issue Date: October 6, 2025

Site Details

Rev.	Date	Notes

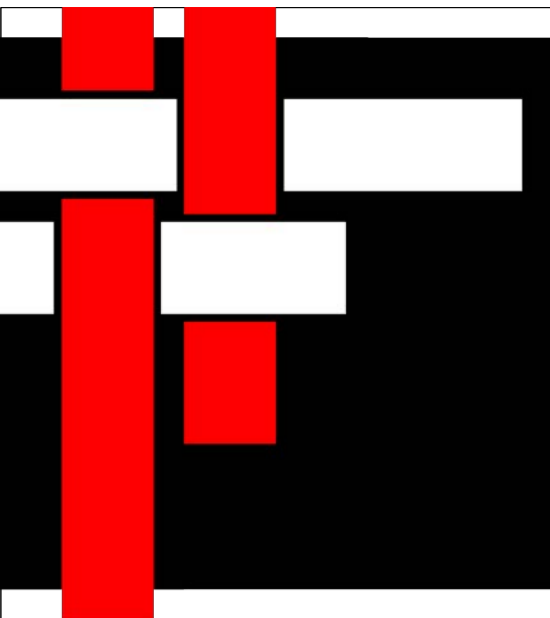
AC1.1



GENERAL NOTES		
FEC	Fire extinguisher cabinet.	
FE	Fire extinguisher, wall-mounted, furnished by Owner.	
1. Dimensions are to face of stud or face of masonry, unless noted otherwise.		

WALL LEGEND		
	Nominal 8" wood studs (See structural) with 5/8" GWB, exterior wall sheathing, air barrier, and 4" brick veneer. Maintain 6" from exterior face of brick to exterior face of stud, U.N.O. Fill stud cavity with batt insulation.	
	Nominal 8" wood studs (See structural) with 5/8" GWB, exterior wall sheathing, air barrier, and metal wall panel. Fill stud cavity with batt insulation.	
	Nominal 8" wood studs (See structural) with 5/8" GWB, 7/8" metal hat channels and acoustic clips at 24" O.C., exterior wall sheathing, air barrier, and metal wall panel. Fill metal hat channel and stud cavities with batt insulation. See Detail 8/A5.4.	
	2x8 wood studs at 16" O.C., U.N.O. 5/8" GWB each side, to roof deck. Fill stud cavity with sound batt insulation.	
	2x6 wood studs at 16" O.C., U.N.O. 5/8" GWB each side, to roof deck. Fill stud cavity with sound batt insulation.	
	2x6 wood studs at 16" O.C., U.N.O. 5/8" GWB each side, to 12" above ceiling. Fill stud cavity with sound batt insulation.	
	2-hour fire barrier - See 1/G2.0 for additional info. 2x6 wood studs at 16" O.C., U.N.O. with two (2) layers 5/8" GWB each side, to roof deck. Fill stud cavity with fiberglass batt insulation. Stencil rated walls above ceiling centered on each wall with 3-inch lettering: 2 HOUR FIRE BARRIER.	
	Dashed line indicates stud wall with 5/8" sound-dampening wall board on side indicated and 5/8" GWB on other side, all wall board to roof deck. Fill stud cavity with sound batt insulation.	

1 Floor Plan
A1.0 Scale: 1/8" = 1'-0"



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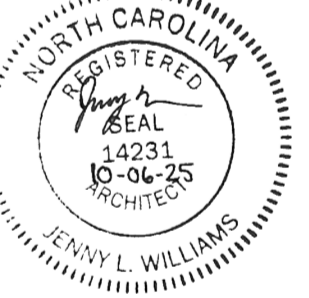
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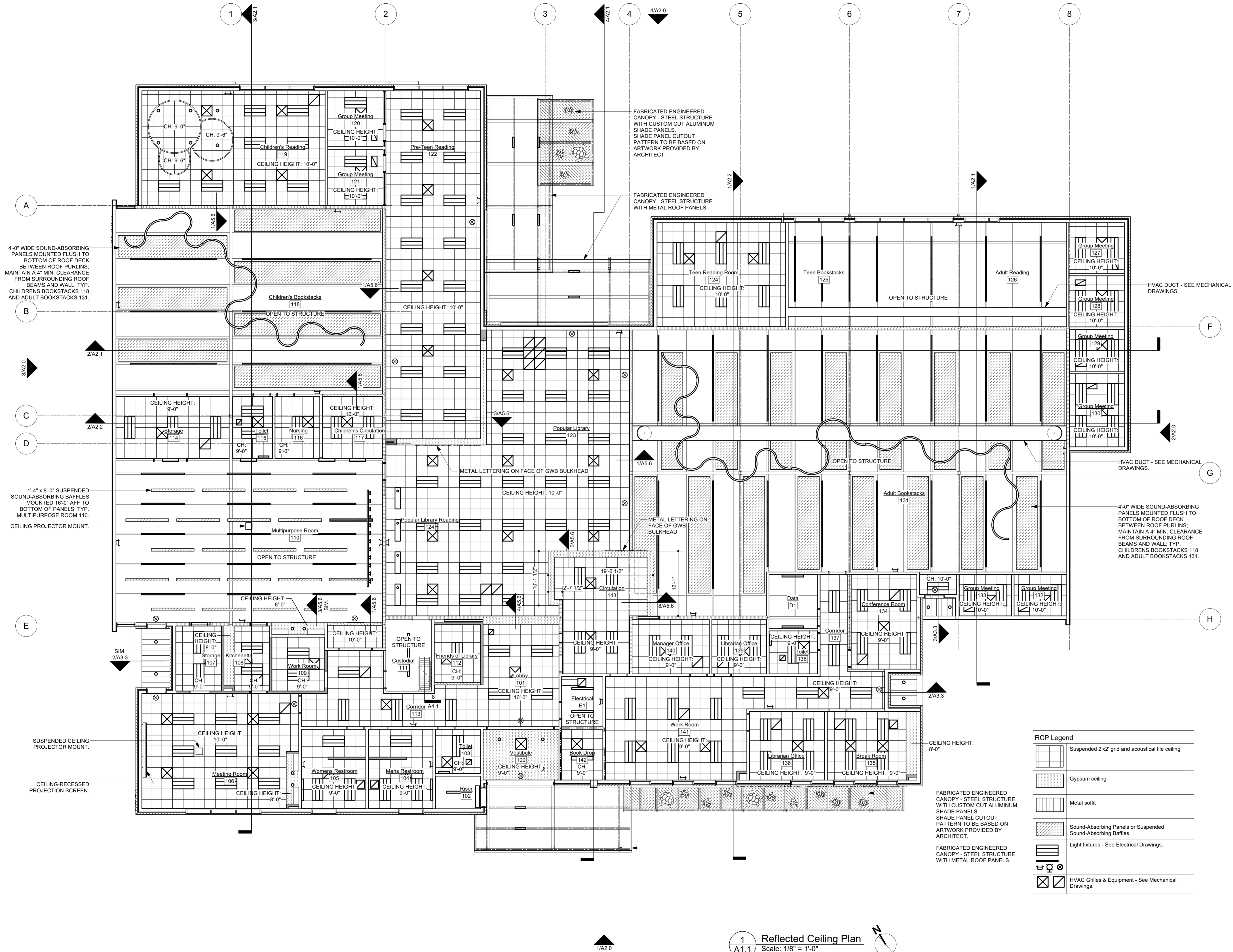
Construction Drawings

Issue Date: October 6, 2025

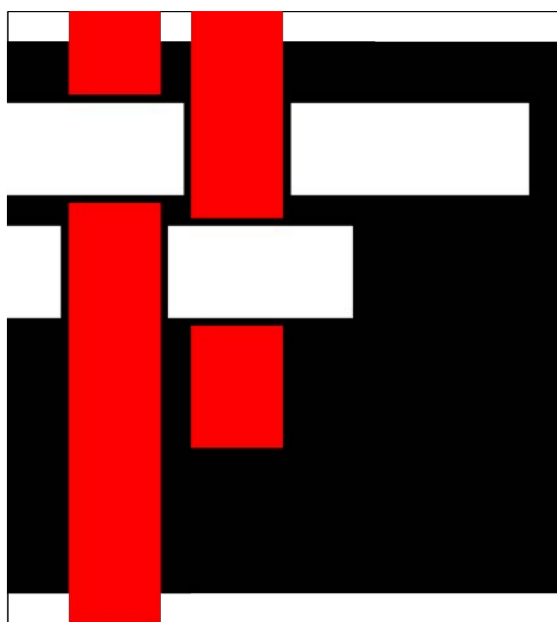
Floor Plan

Rev.	Date	Notes

A1.0



1 Reflected Ceiling Plan
A1.1 Scale: 1/8" = 1'-0"



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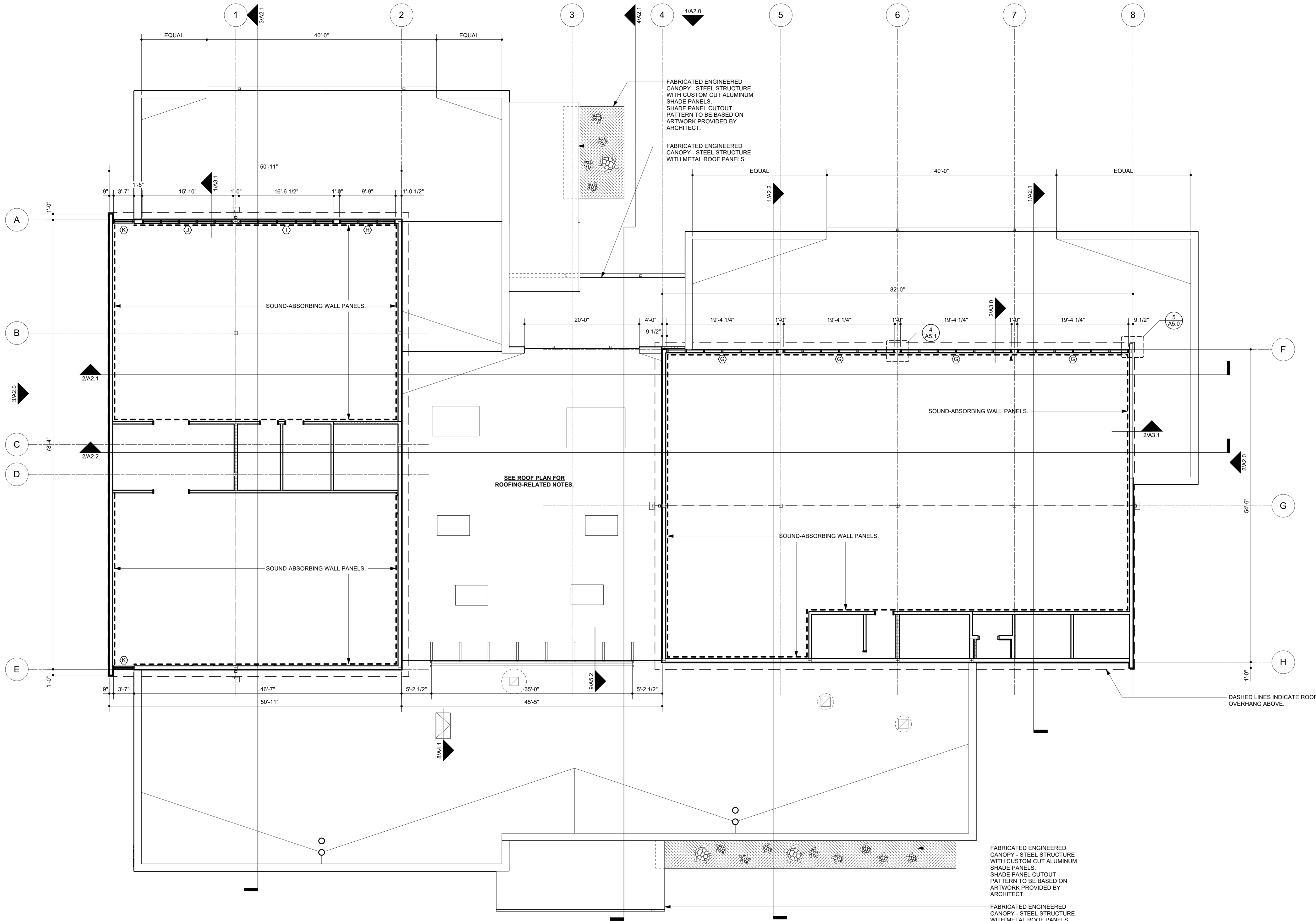
Construction Drawings

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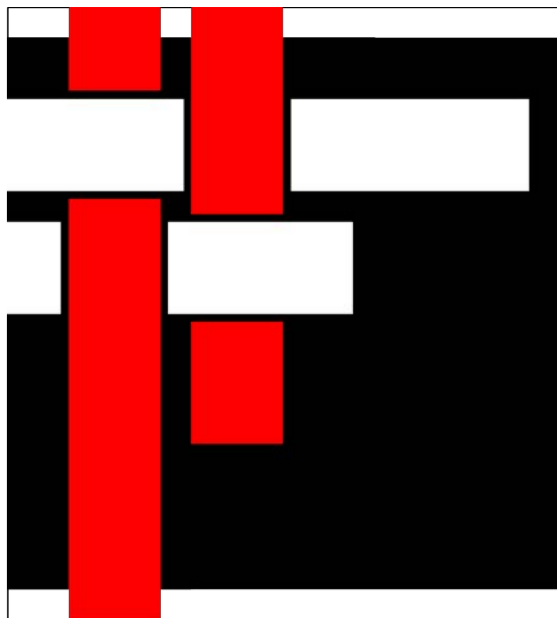
Reflected Ceiling Plan

Rev.	Date	Notes

A1.1



1 High Wall Floor Plan
A1.2 Scale: 1/8" = 1'-0"



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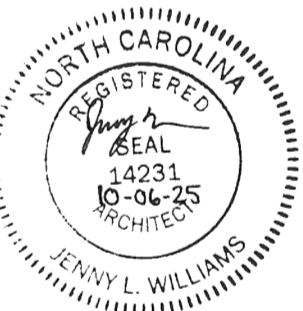
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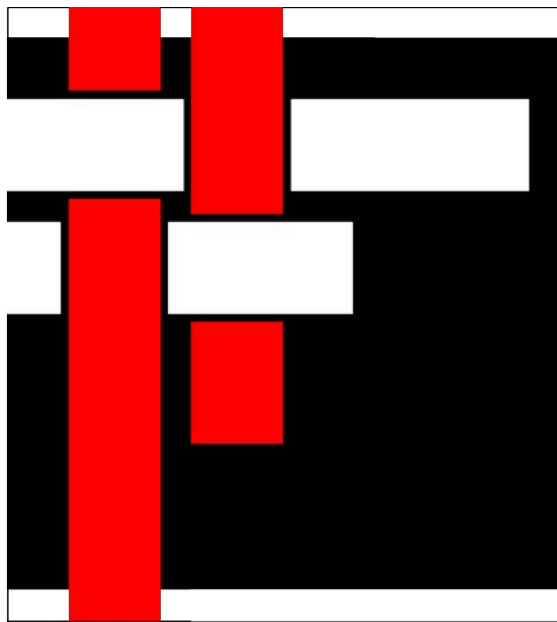
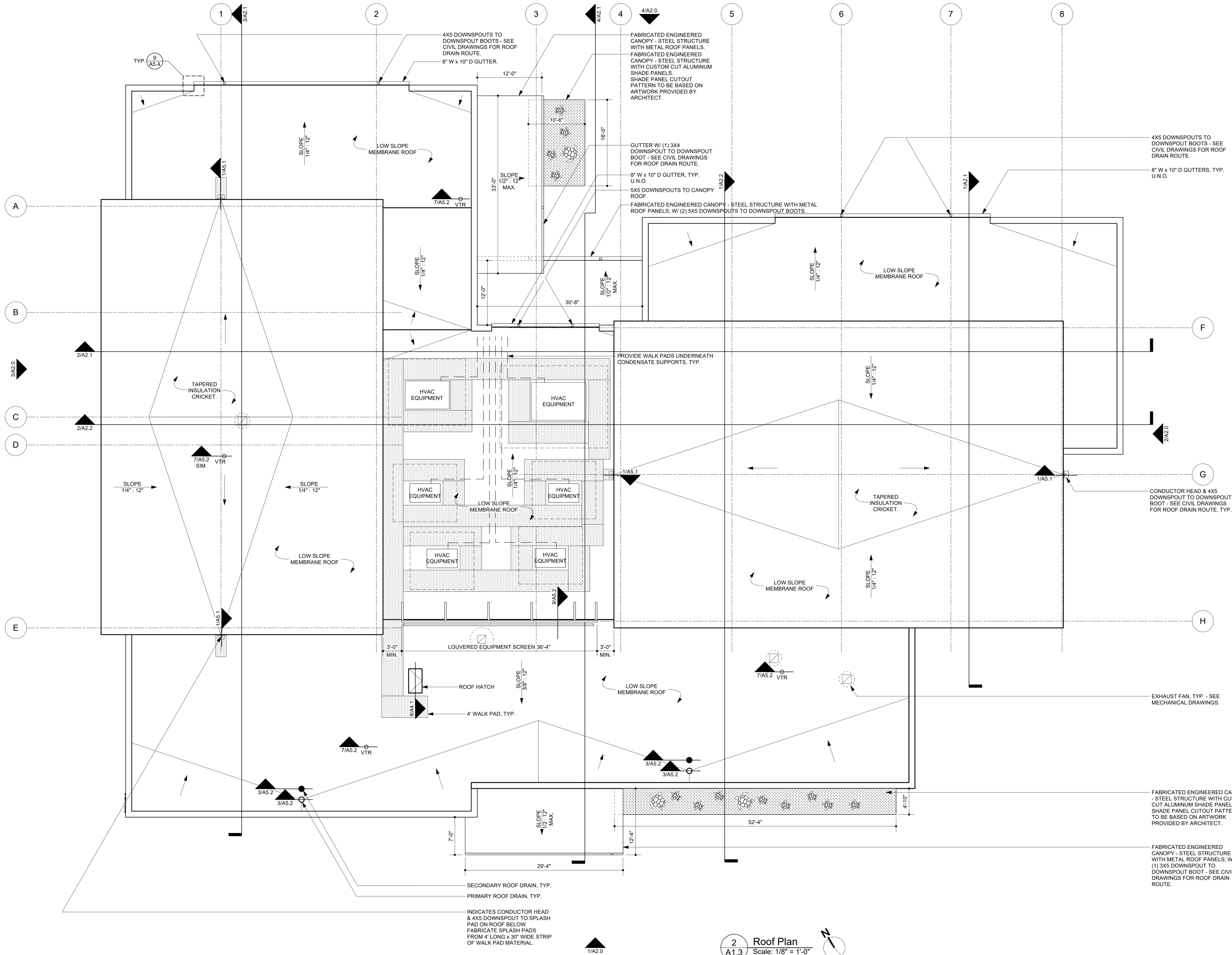
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High Wall Plan

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A1.2



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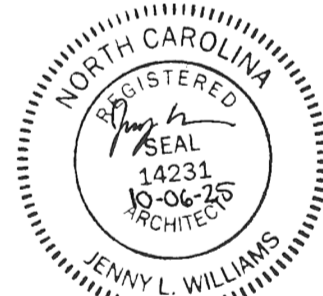
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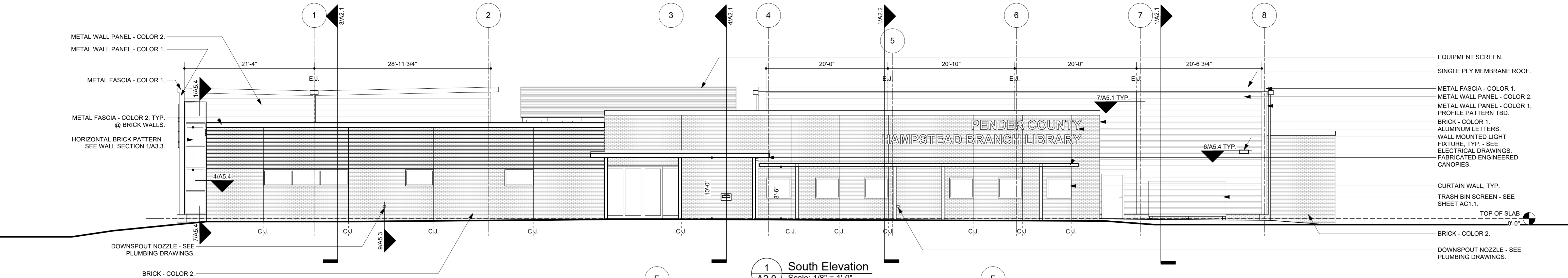
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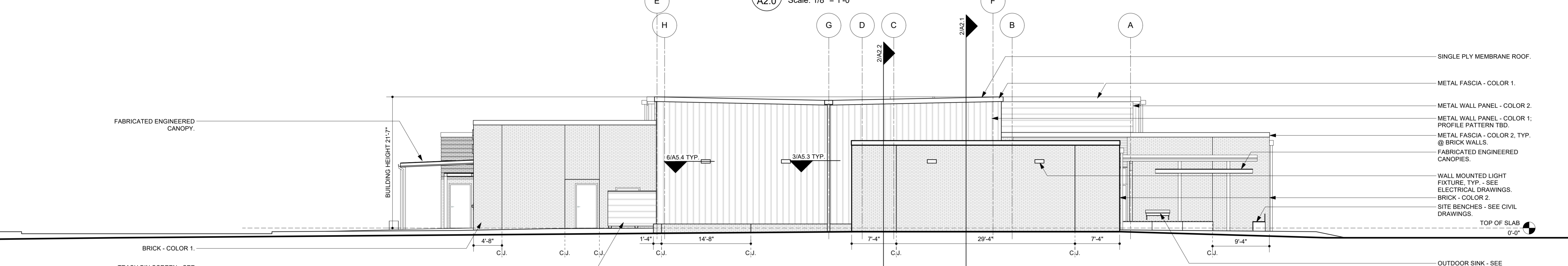
Roof Plan

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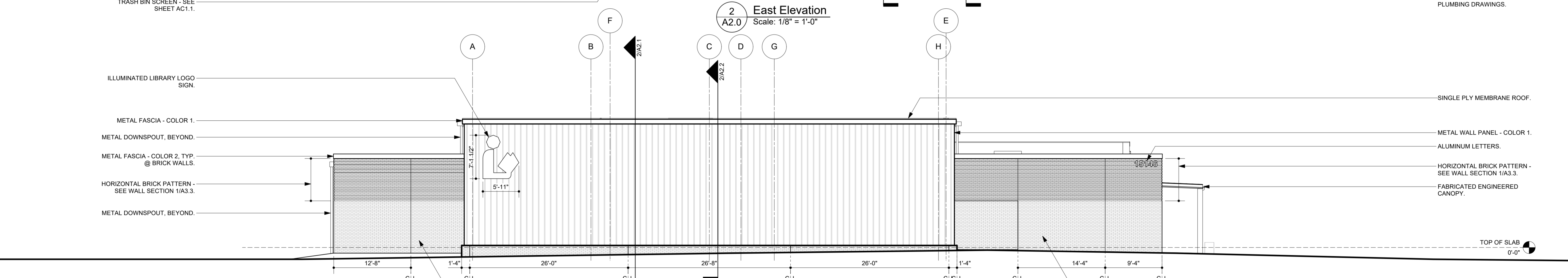
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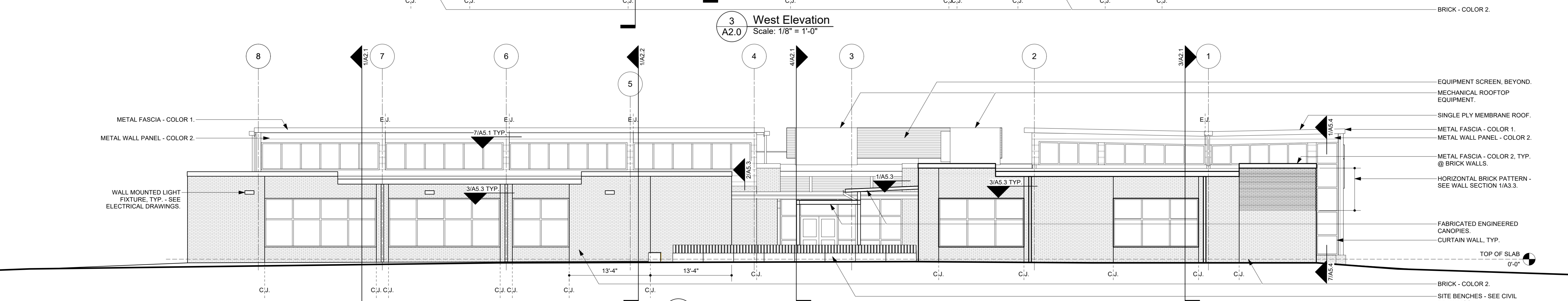
1 South Elevation
Scale: 1/8" = 1'-0"



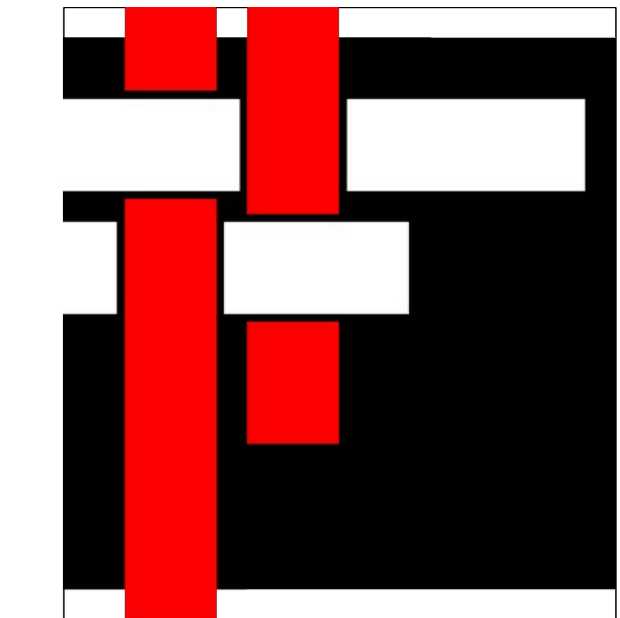
2 East Elevation
Scale: 1/8" = 1'-0"



3 West Elevation
Scale: 1/8" = 1'-0"



4 North Elevation
Scale: 1/8" = 1'-0"



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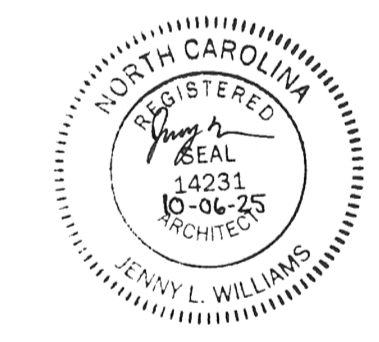
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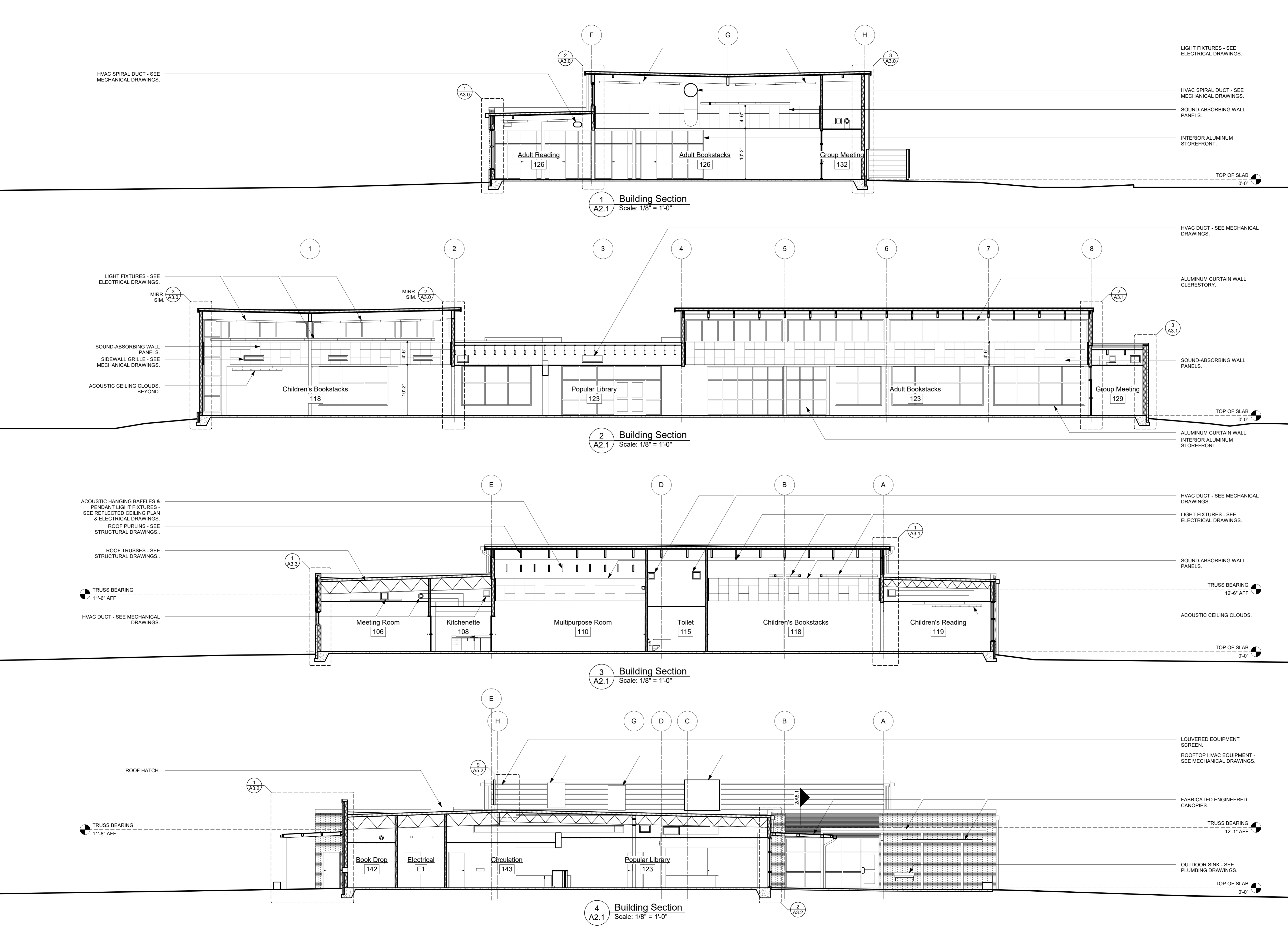
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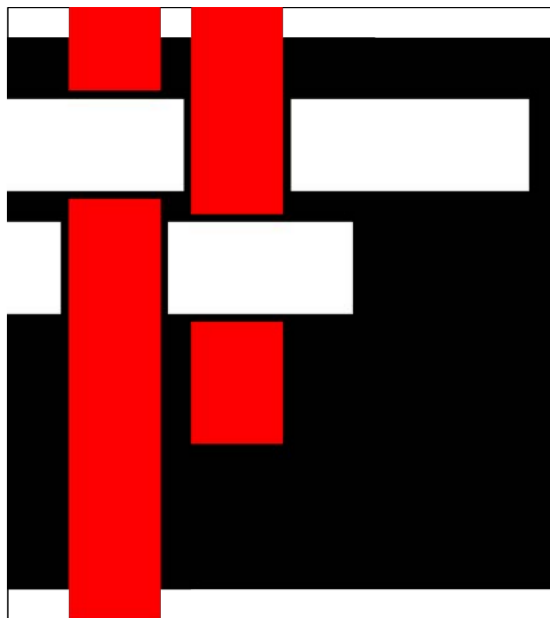
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Building Elevations

Rev.	Date	Notes


A2.0






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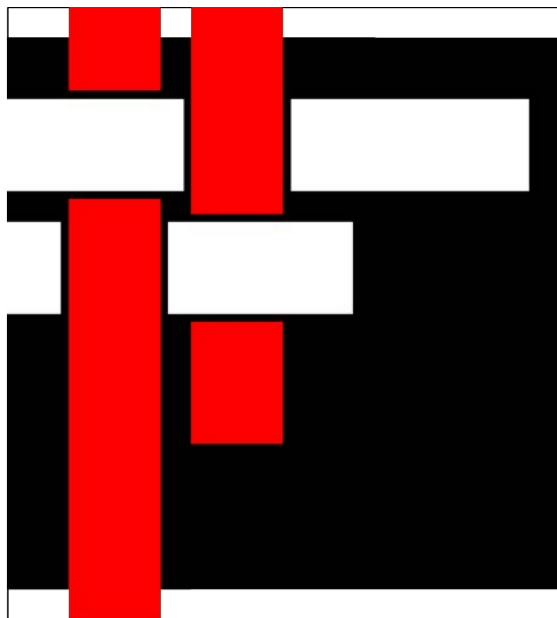
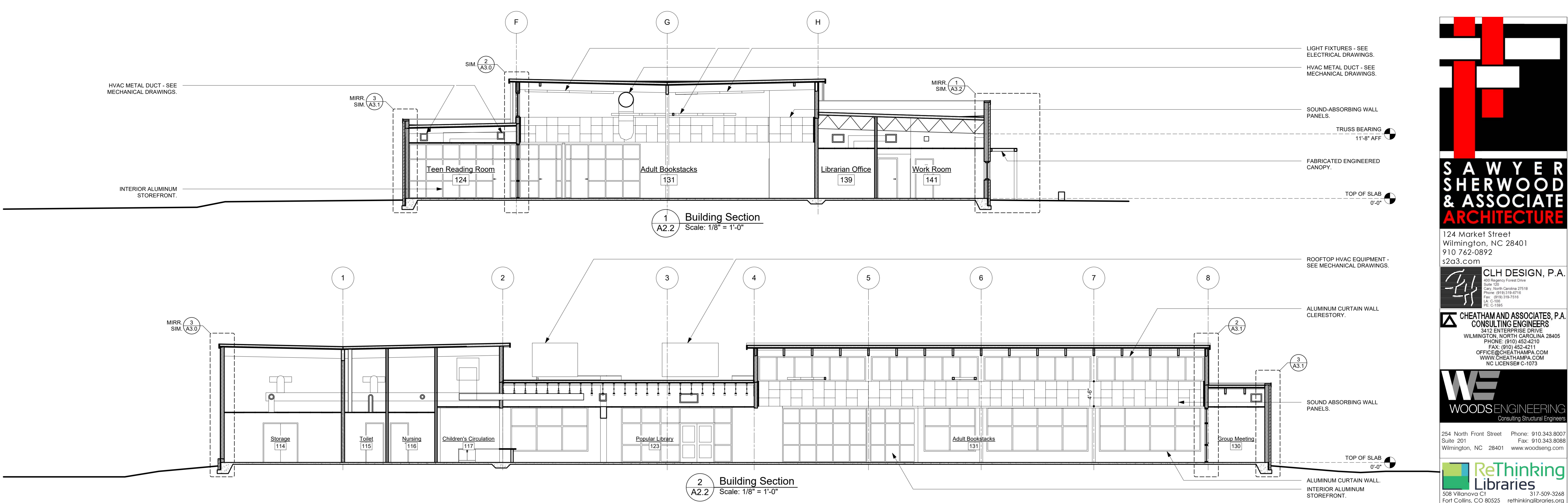
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Building Sections

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A2.1

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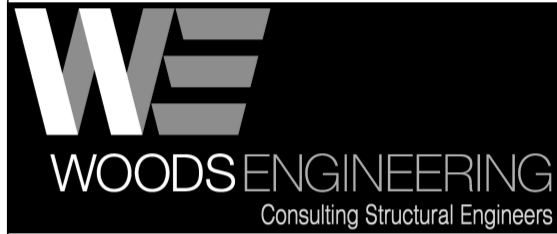


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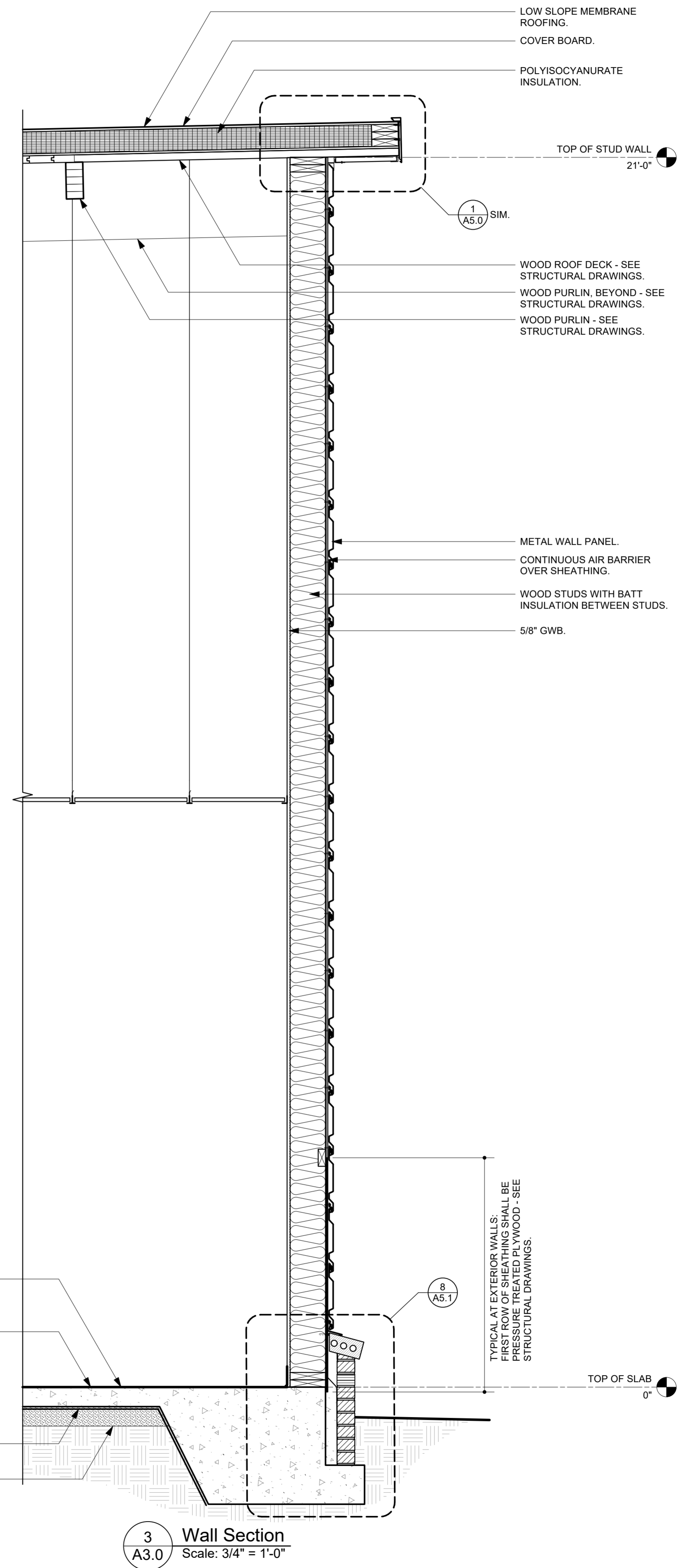
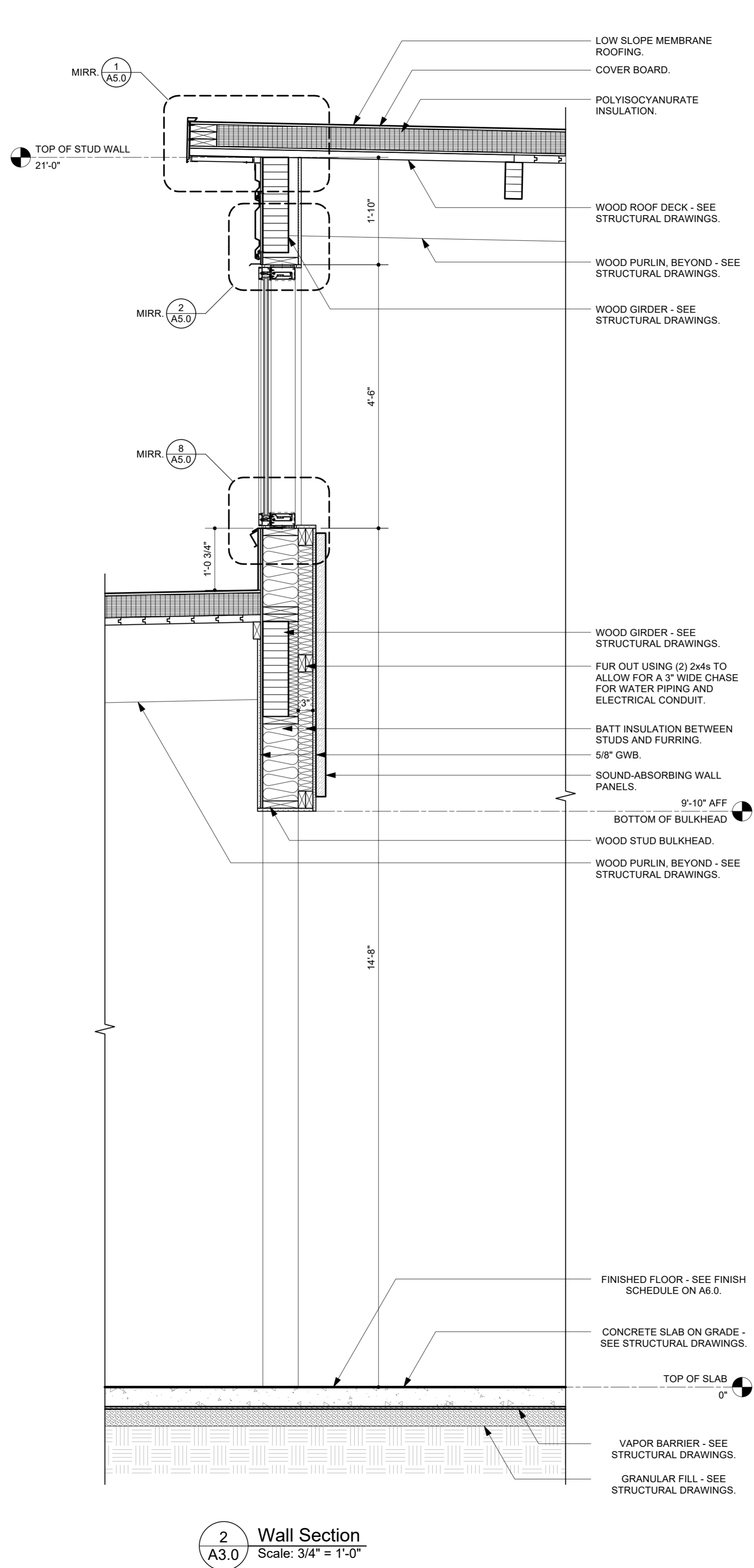
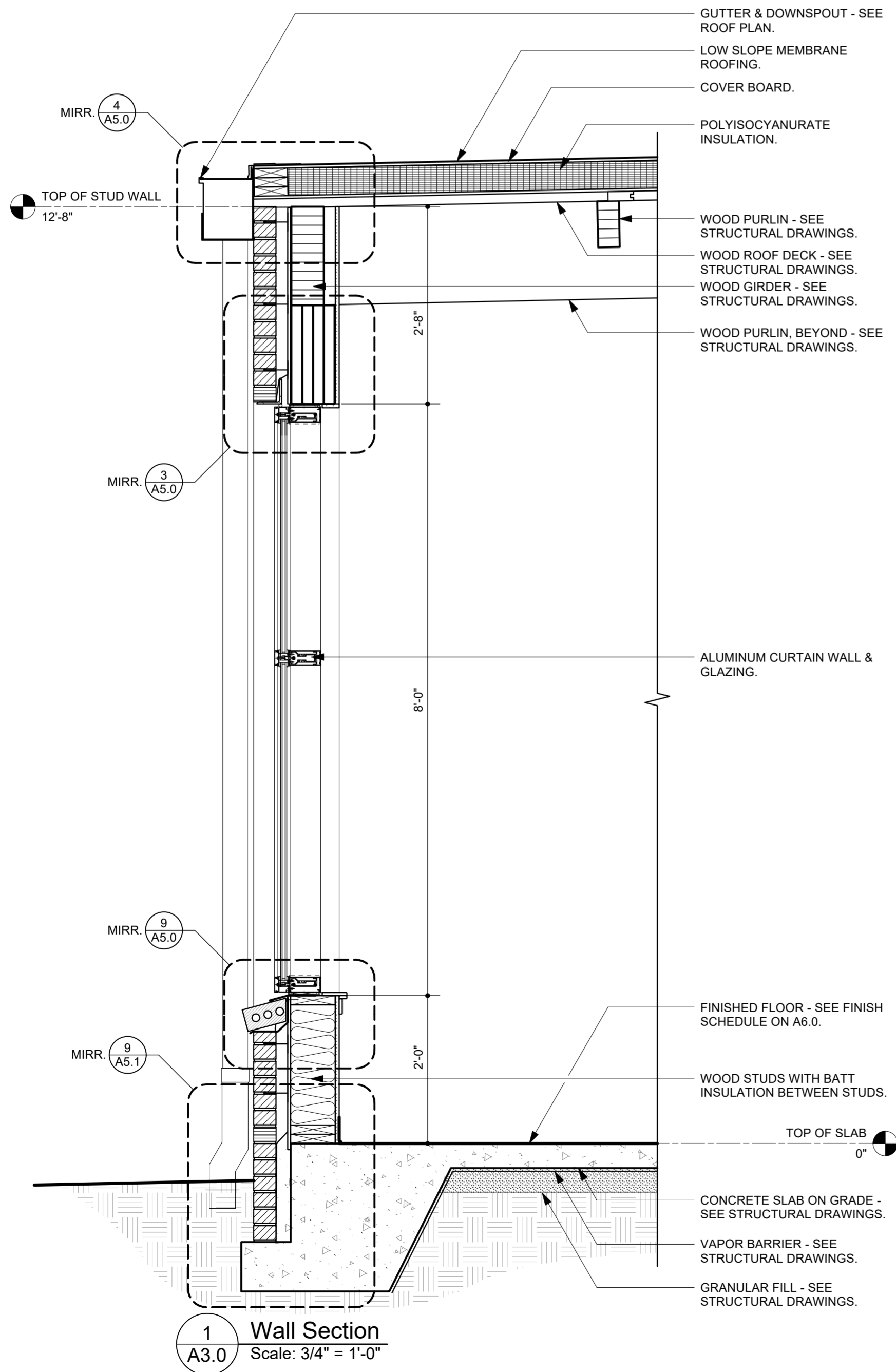
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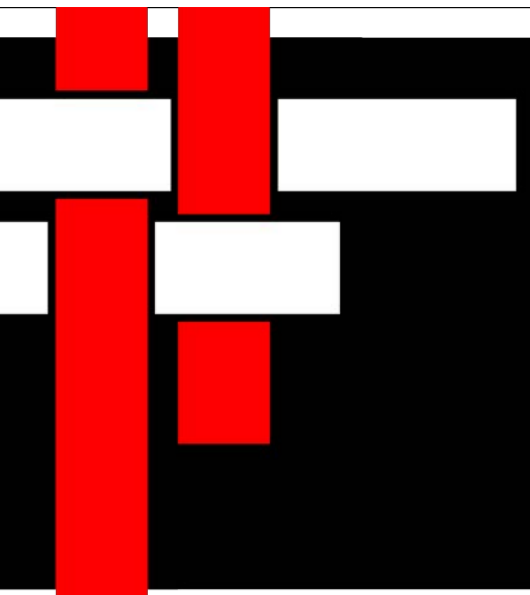
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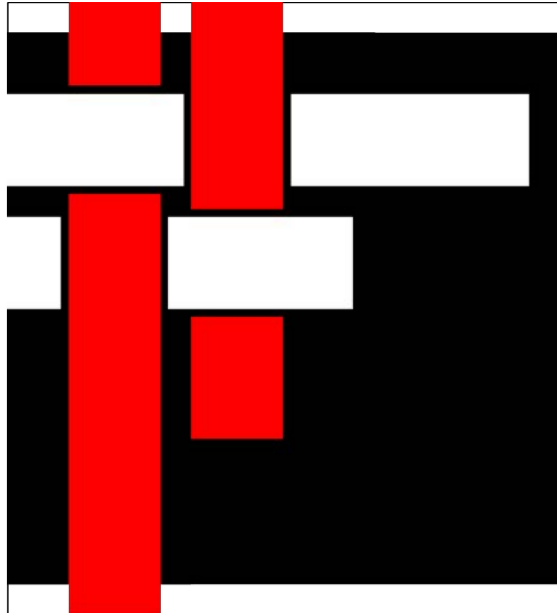
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Wall Sections

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A3.0

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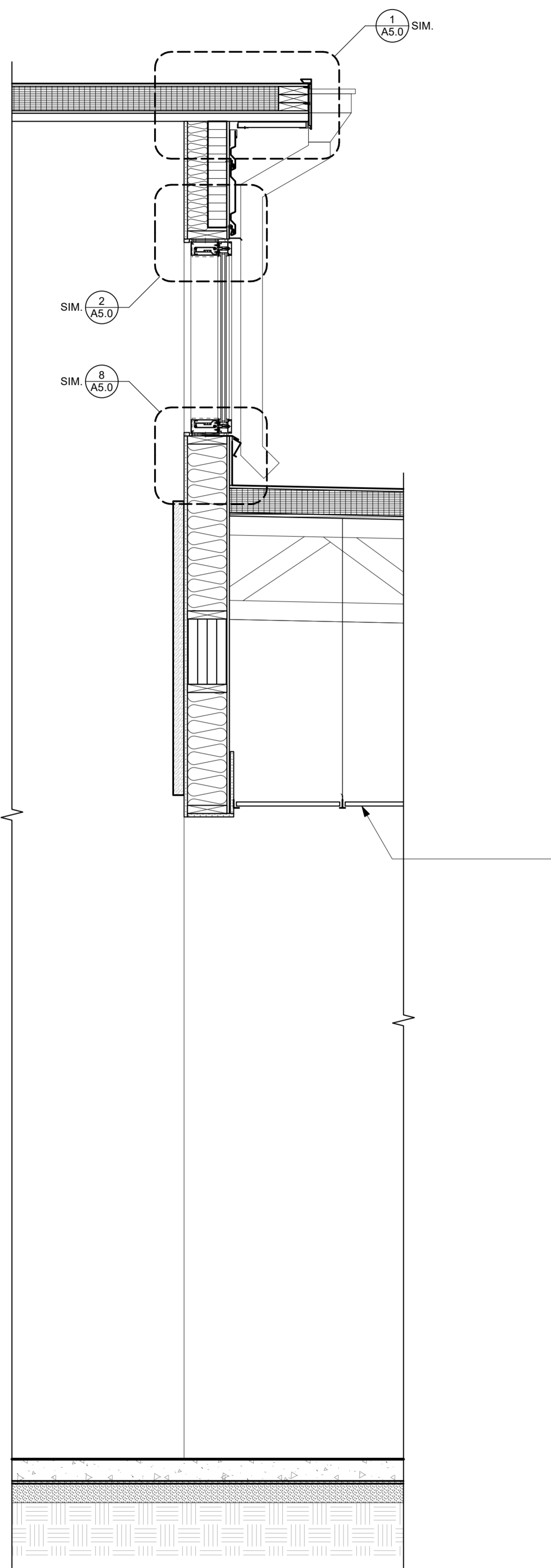
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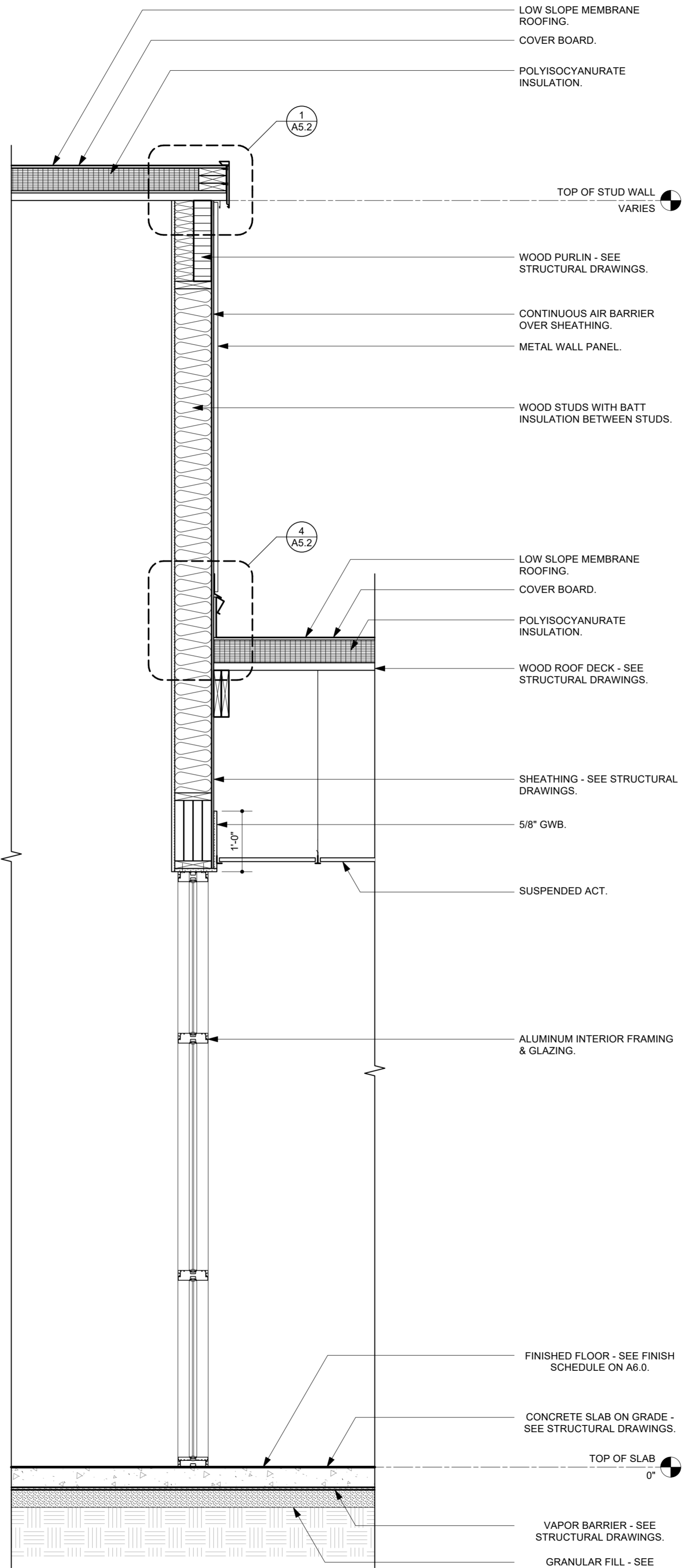
Wall Sections

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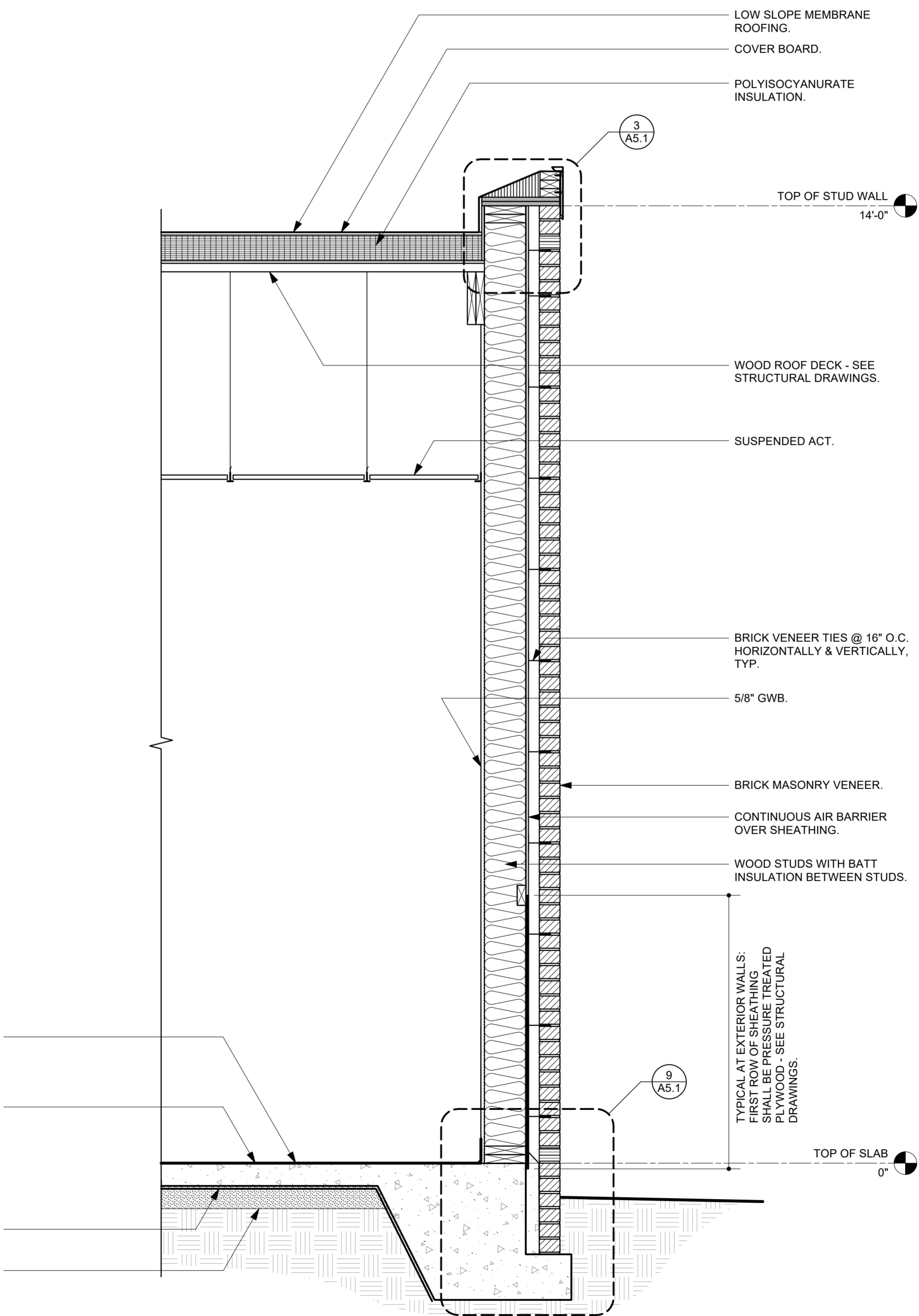
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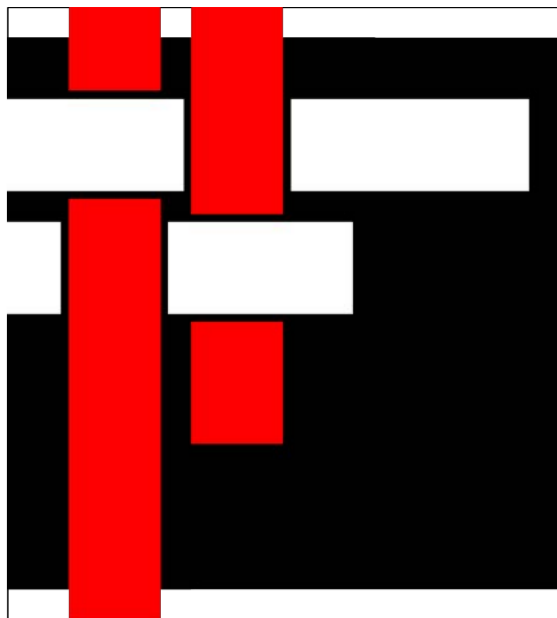
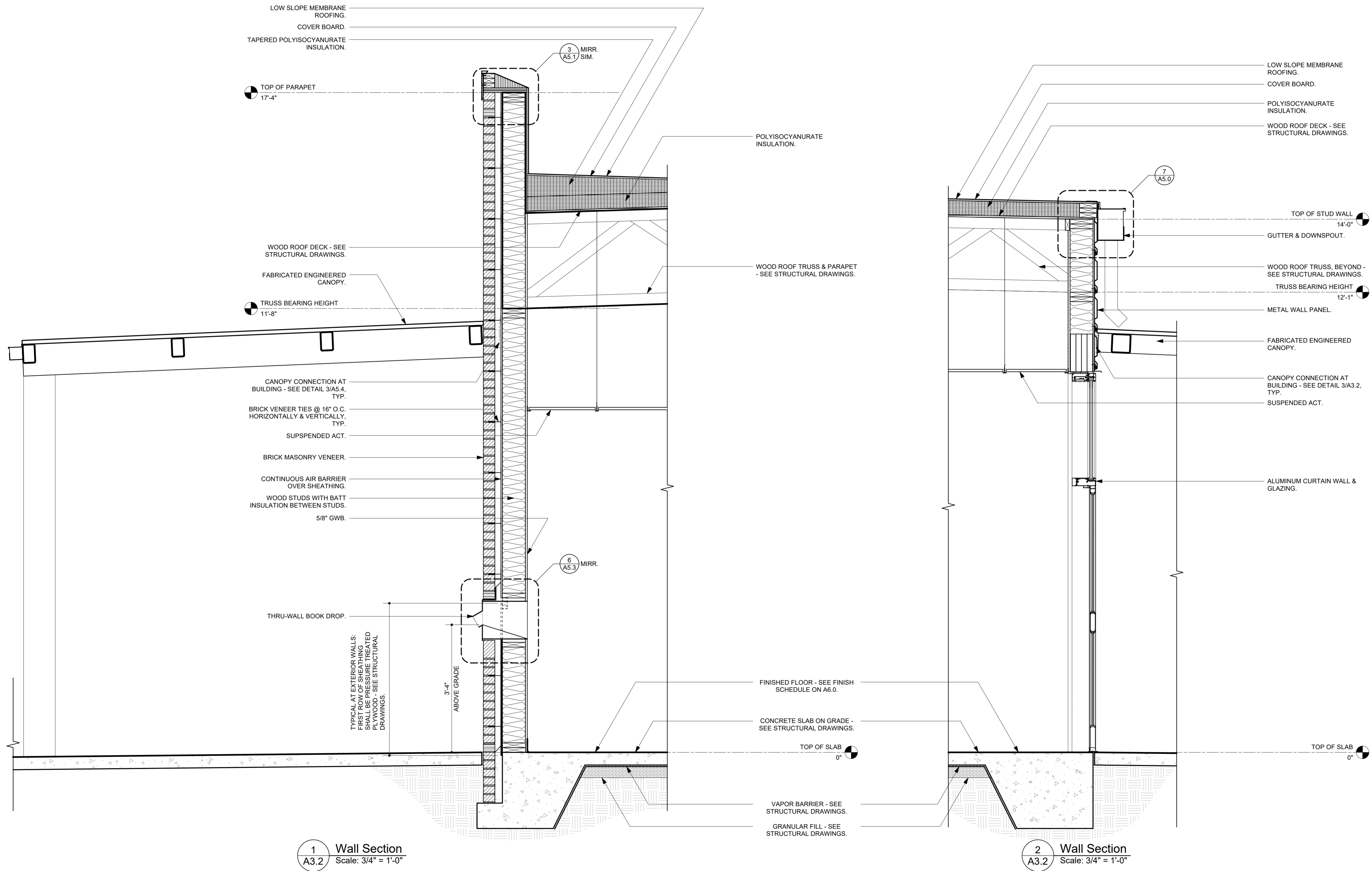
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A3.1 Wall Section
Scale: 3/4" = 1'-0"



2
A3.1 Wall Section
Scale: 3/4" = 1'-0"



3
A3.1 Wall Section
Scale: 3/4" = 1'-0"



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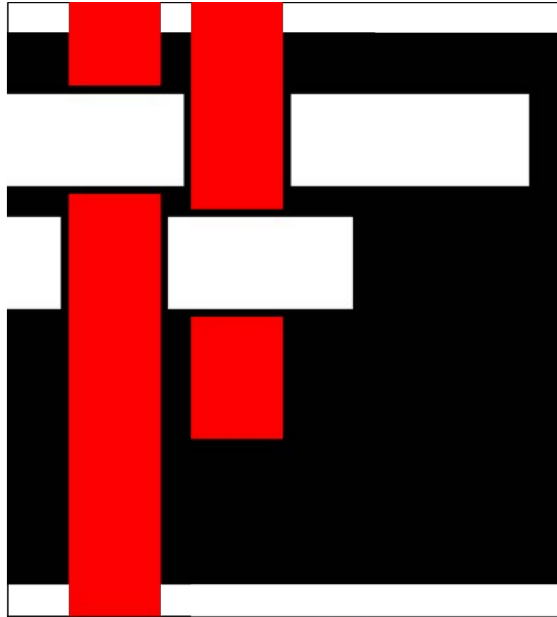
Construction Drawings

Issue Date: October 6, 2025

Wall Sections

Rev.	Date	Notes

A3.2



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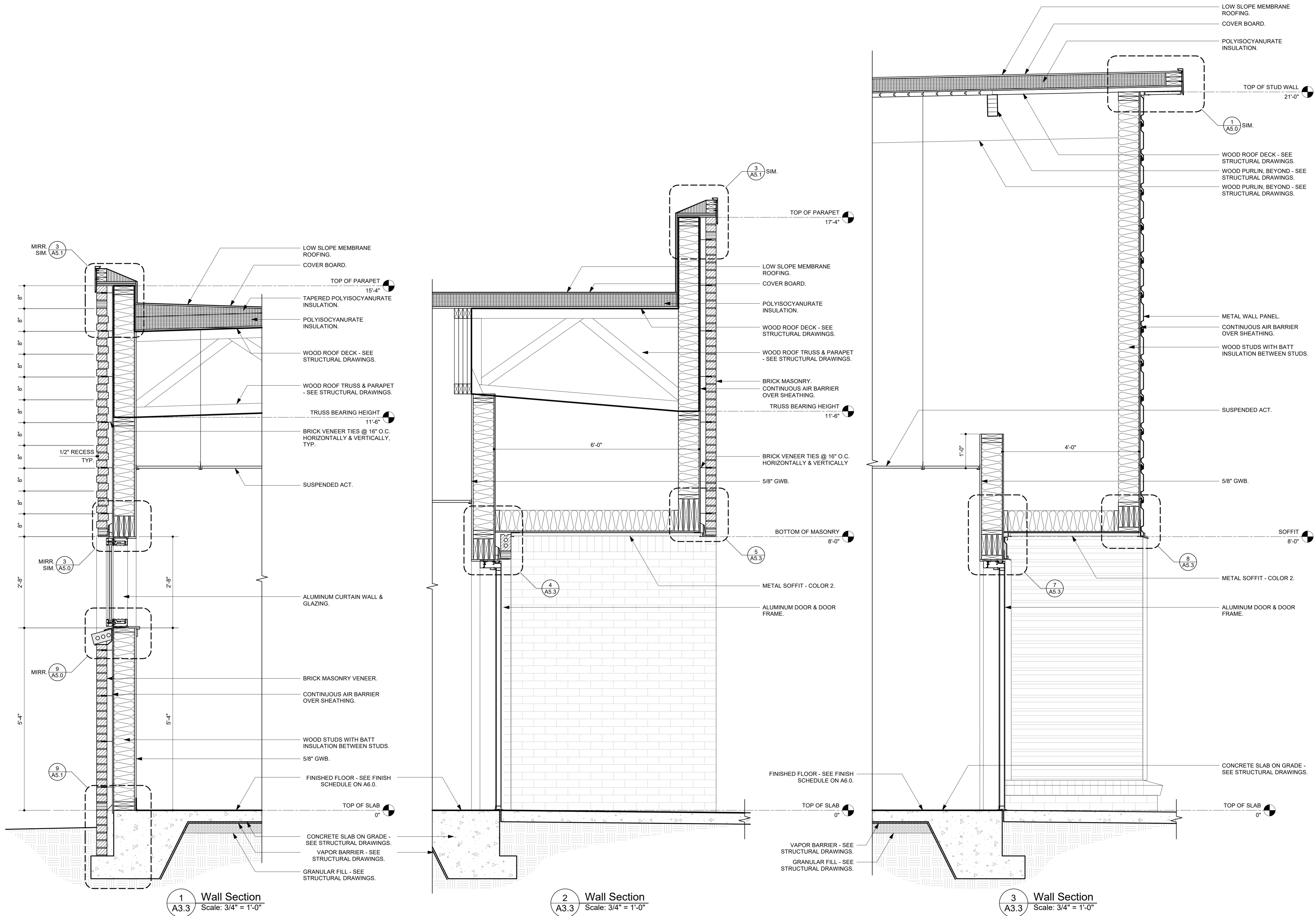
Construction Drawings

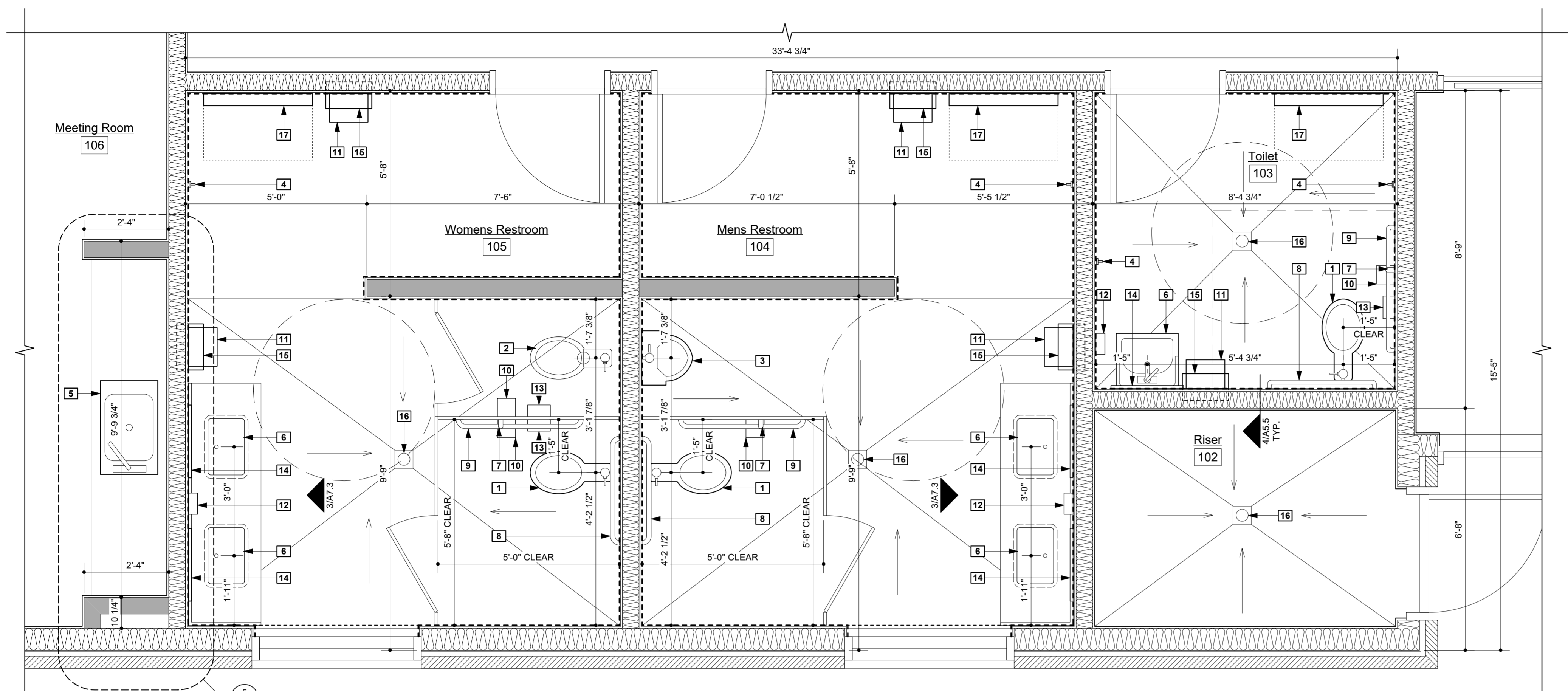
Issue Date: October 6, 2025

Wall Sections

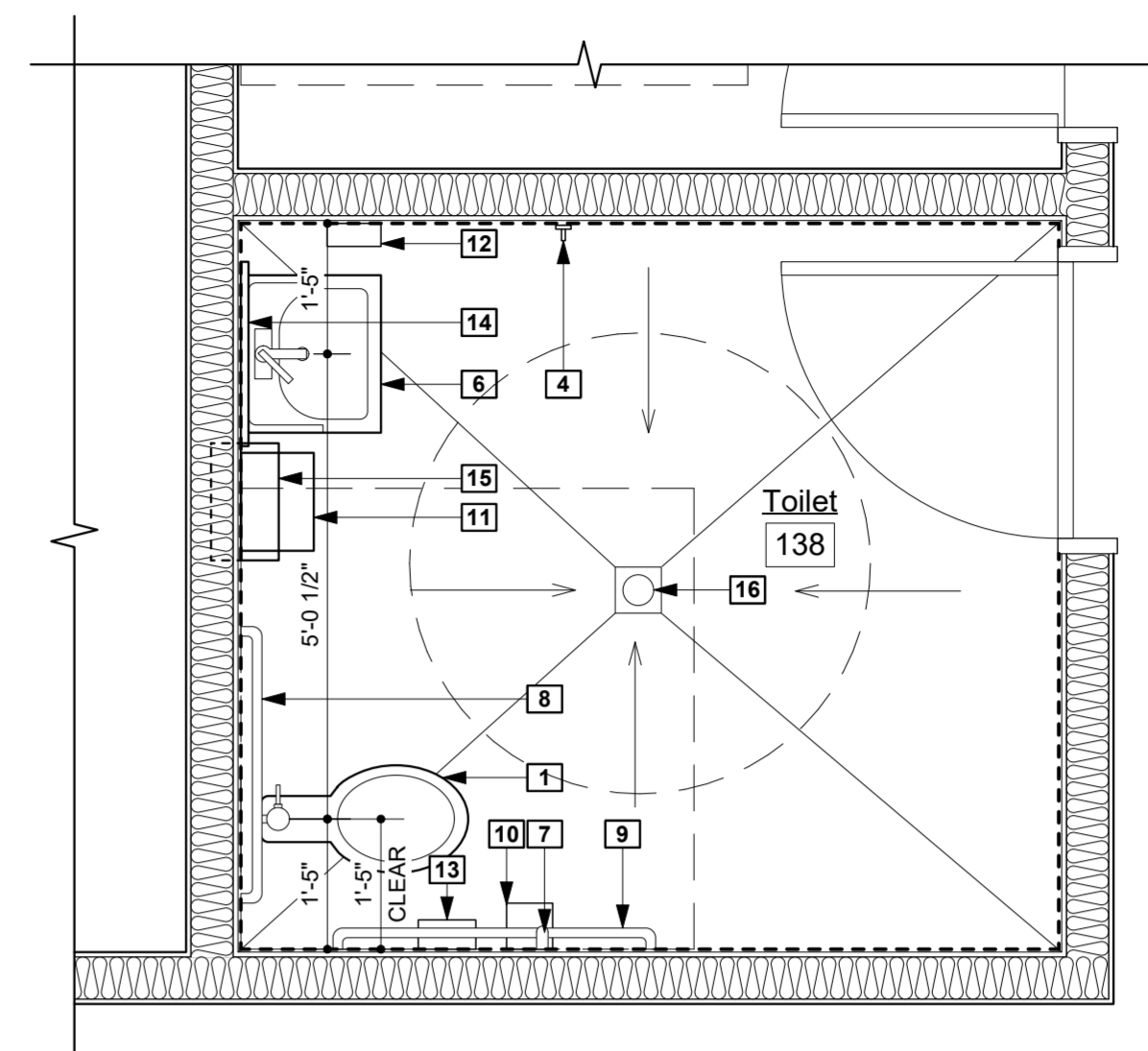
Rev.	Date	Notes

A3.3





1 Enlarged Group Restrooms Plan
A4.0 Scale: 1/2" = 1'-0"

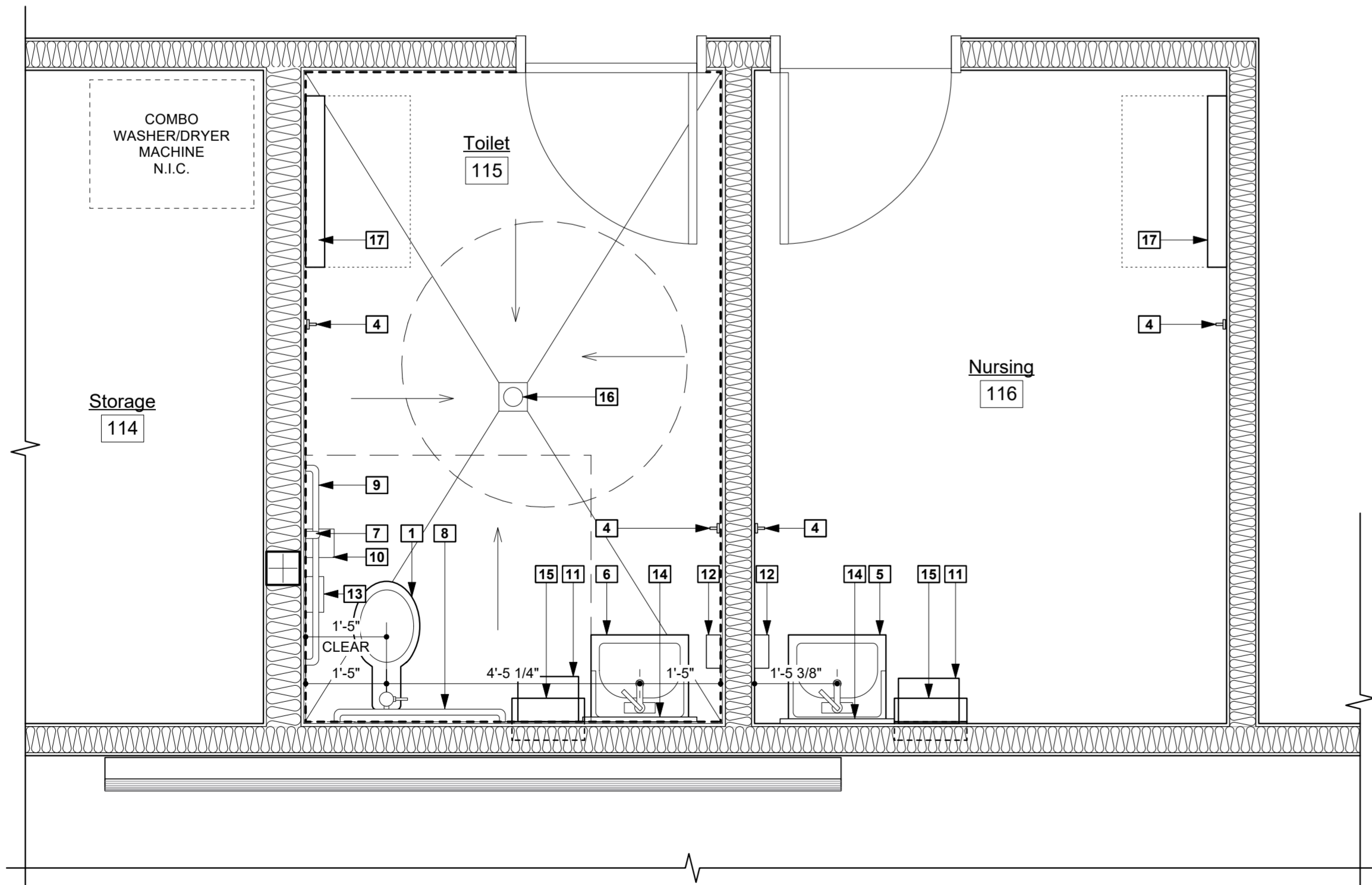


3 Enlarged Toilet 138 Plan
A4.0 Scale: 1/2" = 1'-0"

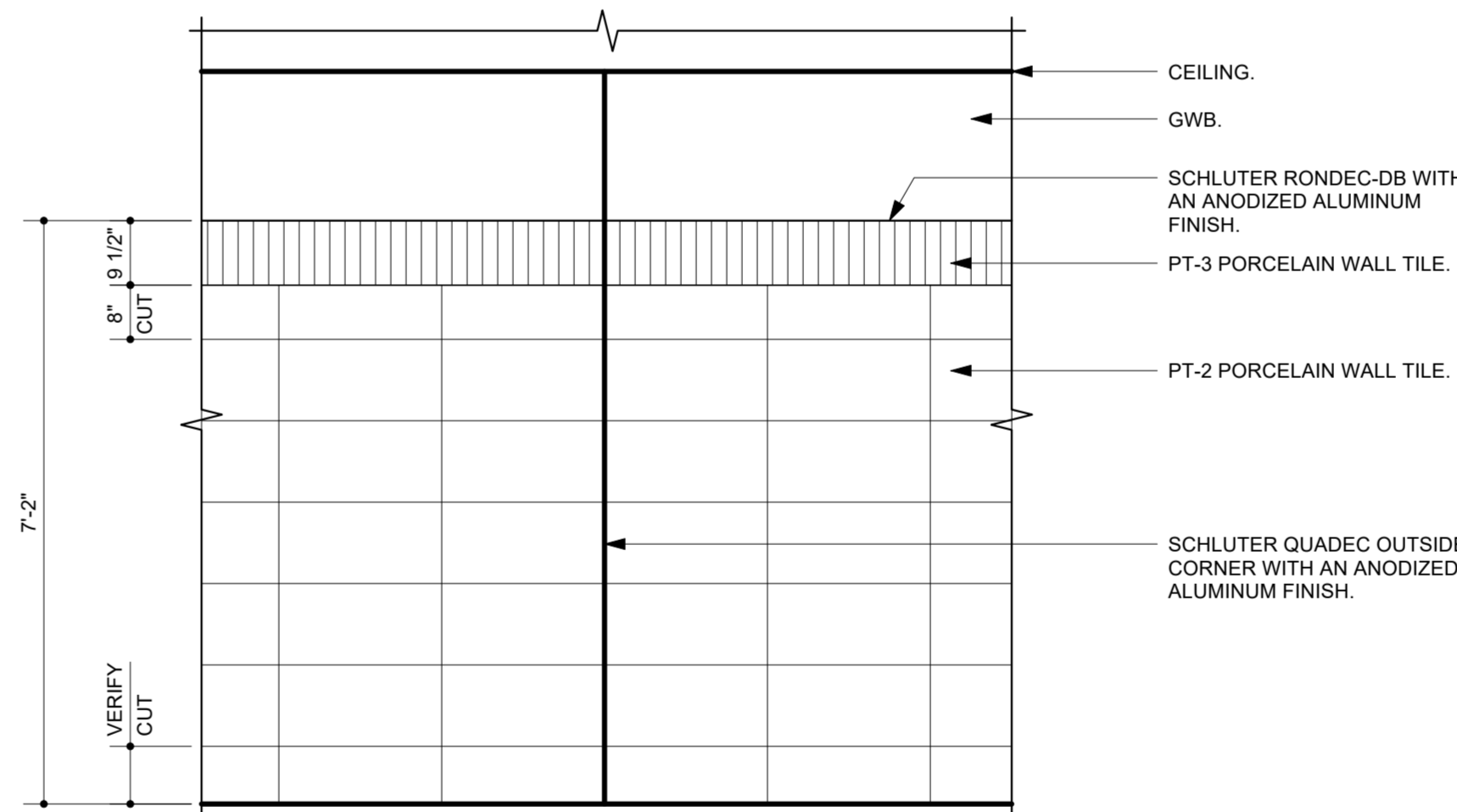
Accessory Key Notes			
1	Accessible Toilet Fixture	12	Soap Dispenser**
2	Toilet Fixture	13	Sanitary Napkin Disposal**
3	Accessible Urinal Fixture	14	Mirror
4	Utility Hook	15	Waste Receptacle
5	Accessible Sink	16	Floor Drain
6	Accessible Lavatory	17	Changing Table
7	Grab Bar 18"		
8	Grab Bar 36"		
9	Grab Bar 42"		
10	Toilet Tissue Dispenser**		
11	Paper Towel Dispenser**		

** FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.

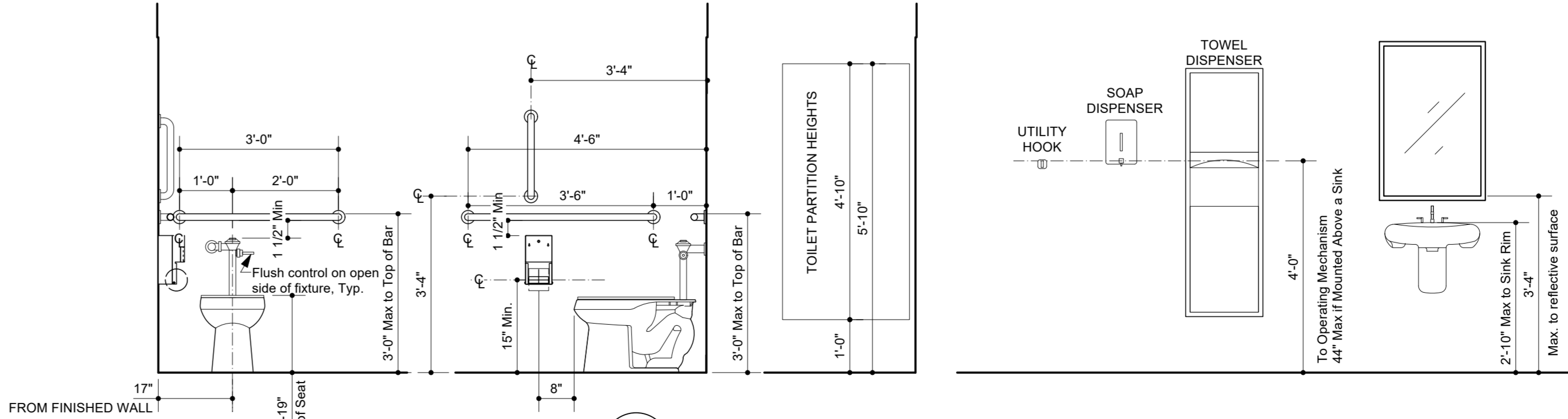
Notes
1. Measure fixture dimensions from face of wall finish to centerline of fixture.
2. Measure toilet stall dimensions from face of wall finish to centerline of partition.
3. Slope restroom floors to drain as indicated on enlarged plan, slope not to exceed 2%.
4. Heavy dashed line shows extents of 7'-2" high porcelain tile wainscot.



4 Enlarged Toilet 115 & Nursing 116 Plan
A4.0 Scale: 1/2" = 1'-0"

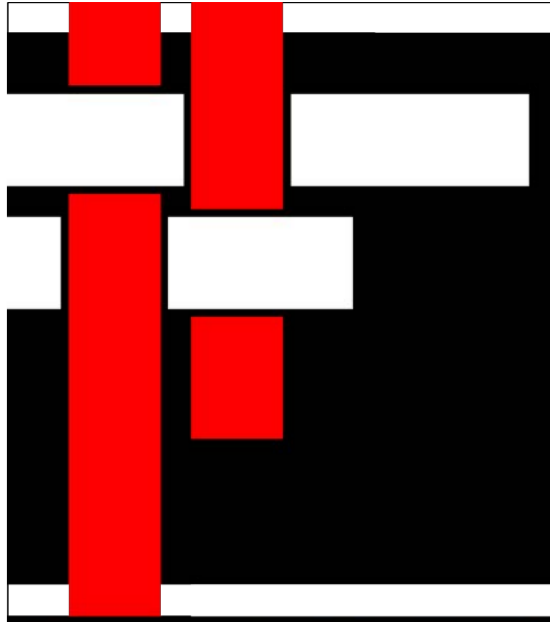


5 Tile Wainscot Detail
A4.0 Scale: 1/2" = 1'-0"



6 Restroom Fixture & Accessory Details
A4.0 Scale: 1/2" = 1'-0"

Note: Fixtures and Accessories shown are for dimensional purposes only and are not intended to accurately represent specified items. See drawings and specifications for fixture, accessory information, location and orientation.



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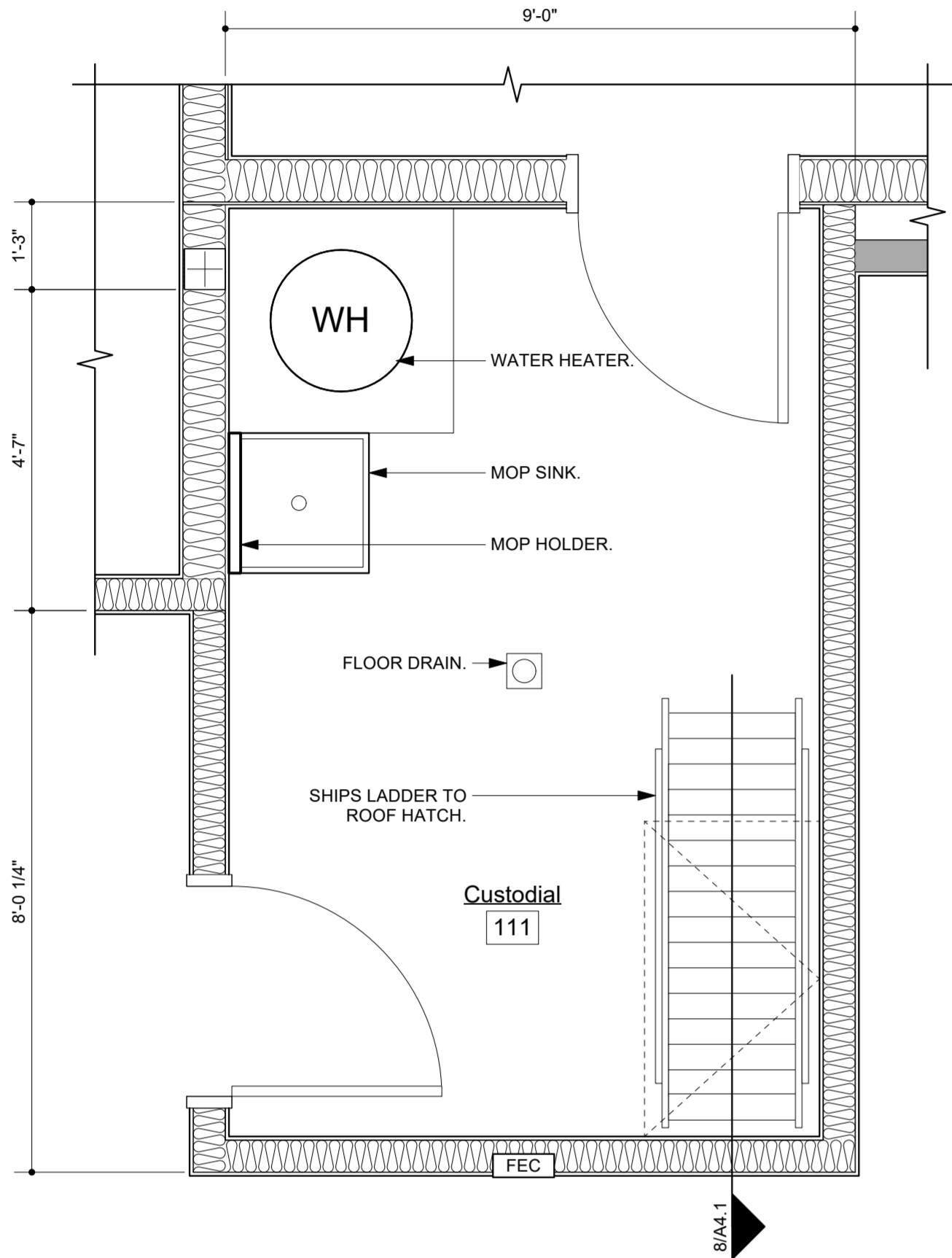
Construction Drawings

Issue Date: October 6, 2025

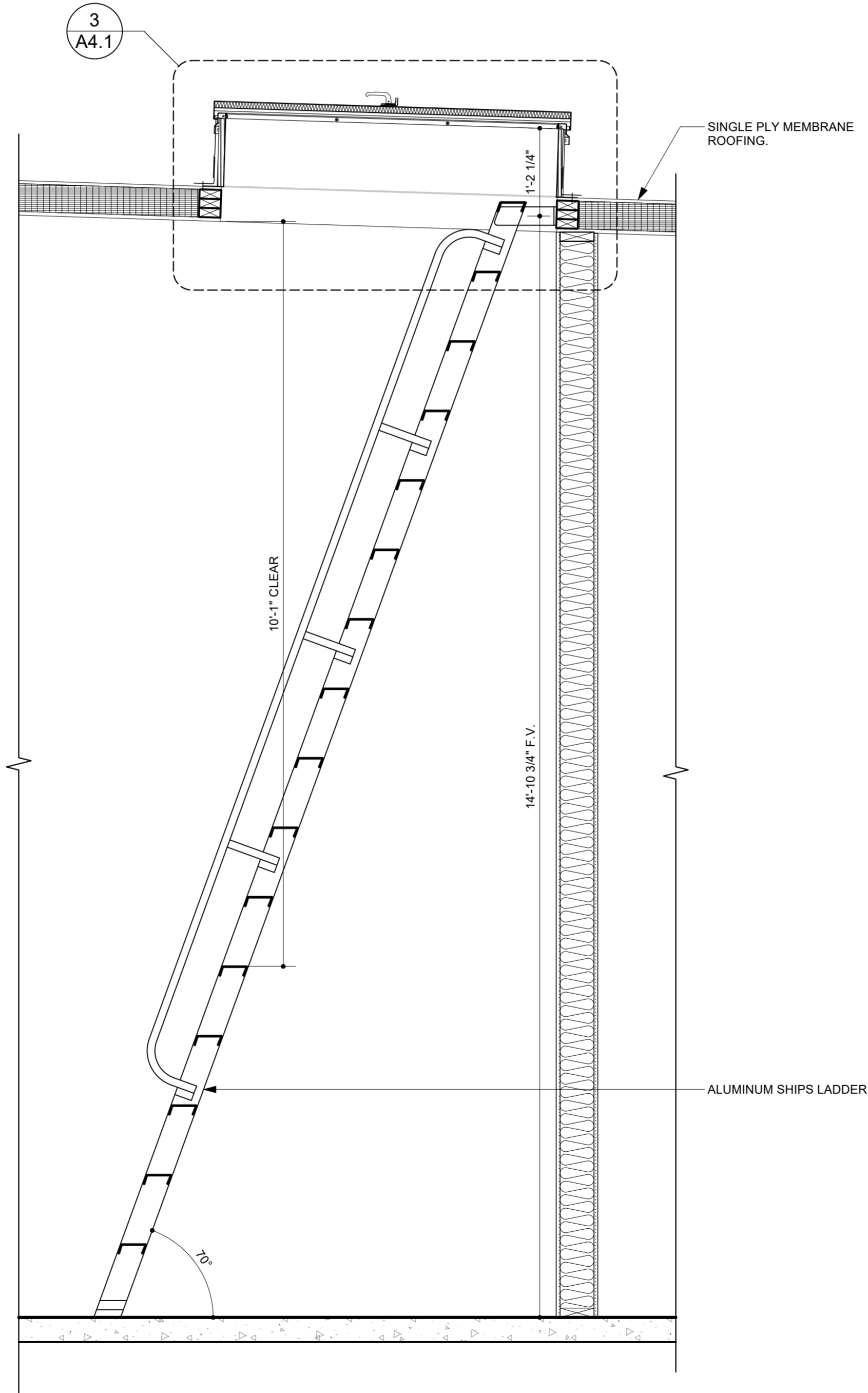
Enlarged Restroom
Plans

Rev.	Date	Notes

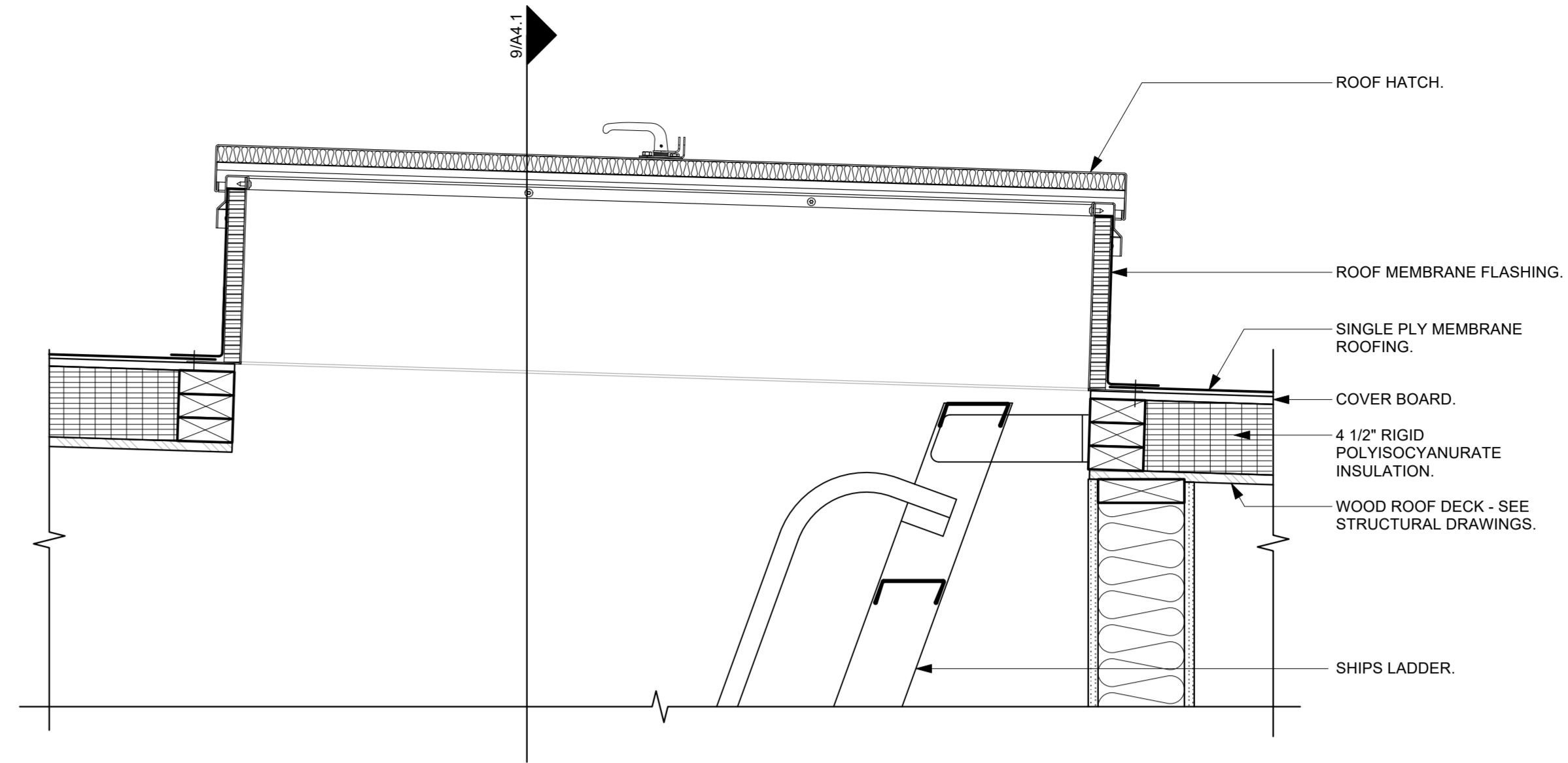
A4.0



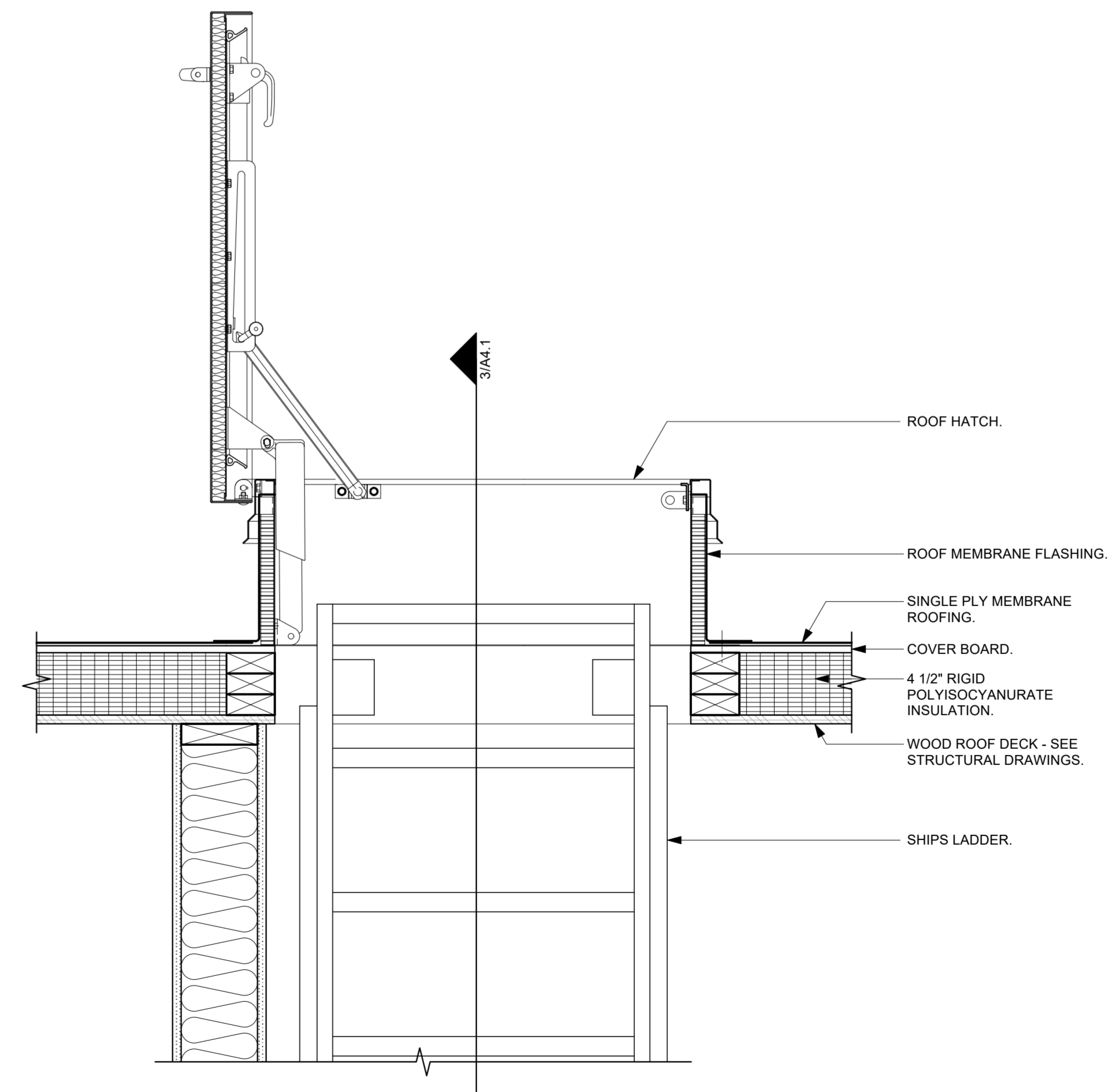
1 Custodial Room Enlarged Plan
A4.1 Scale: 1/2" = 1'-0"



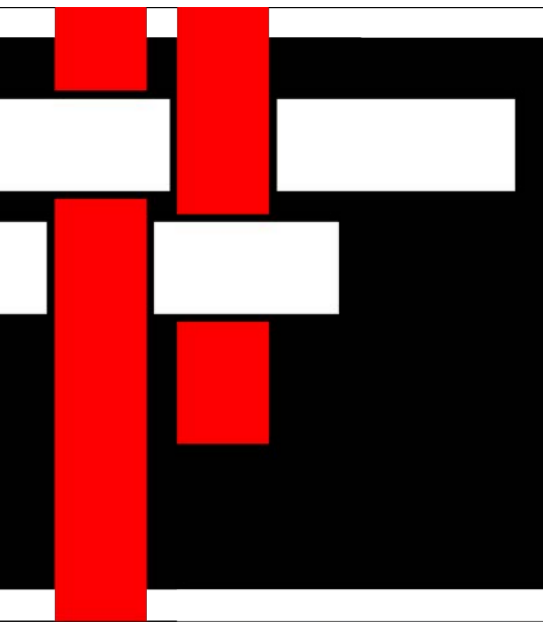
8 Ships Ladder Section
A4.1 Scale: 3/4" = 1'-0"



3 Roof Hatch Detail
A4.1 Scale: 1 1/2" = 1'-0"



9 Roof Hatch Detail
A4.1 Scale: 1 1/2" = 1'-0"



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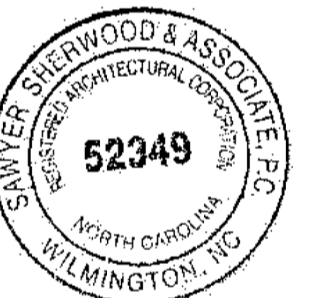
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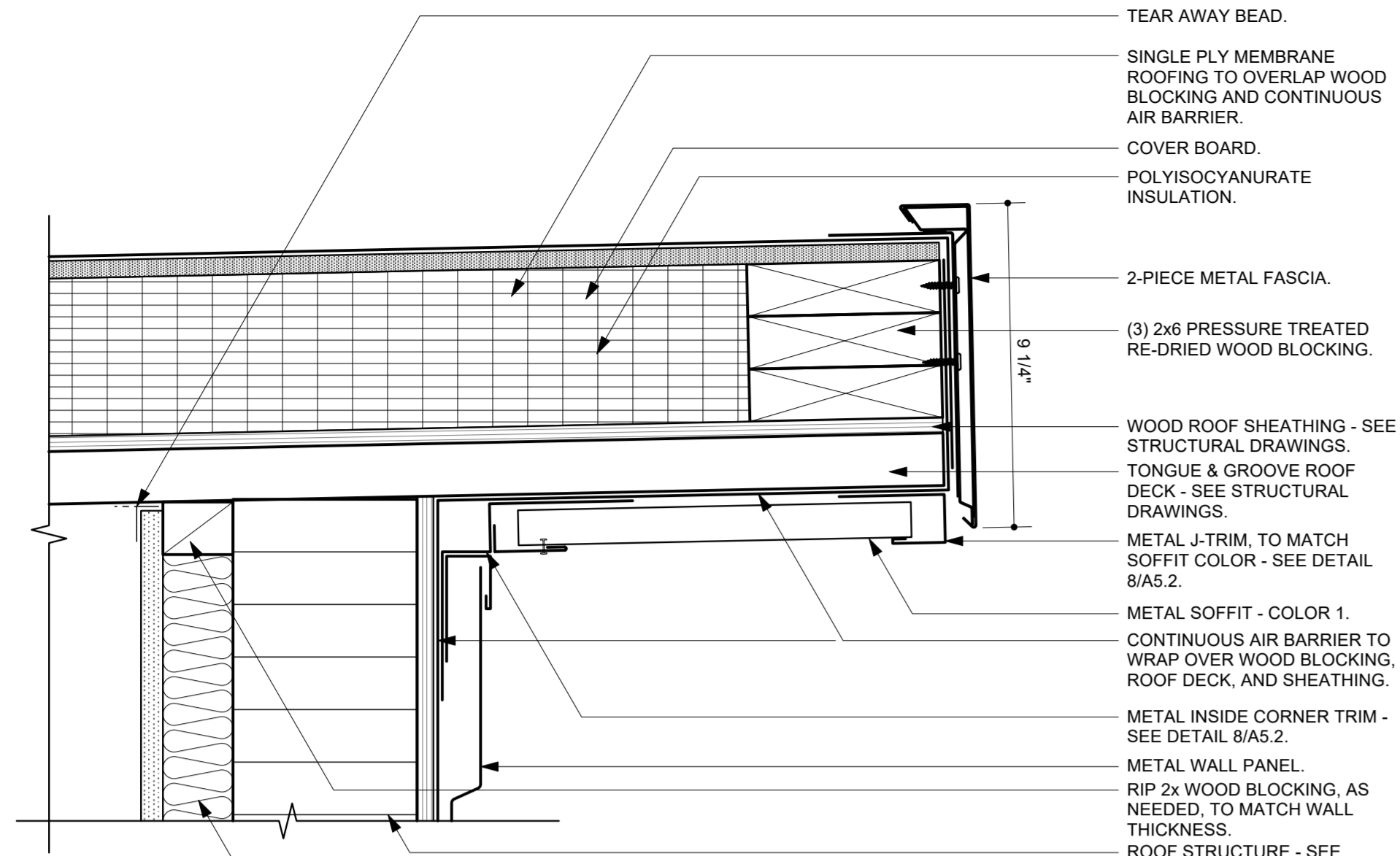
Construction Drawings

Issue Date: October 6, 2025

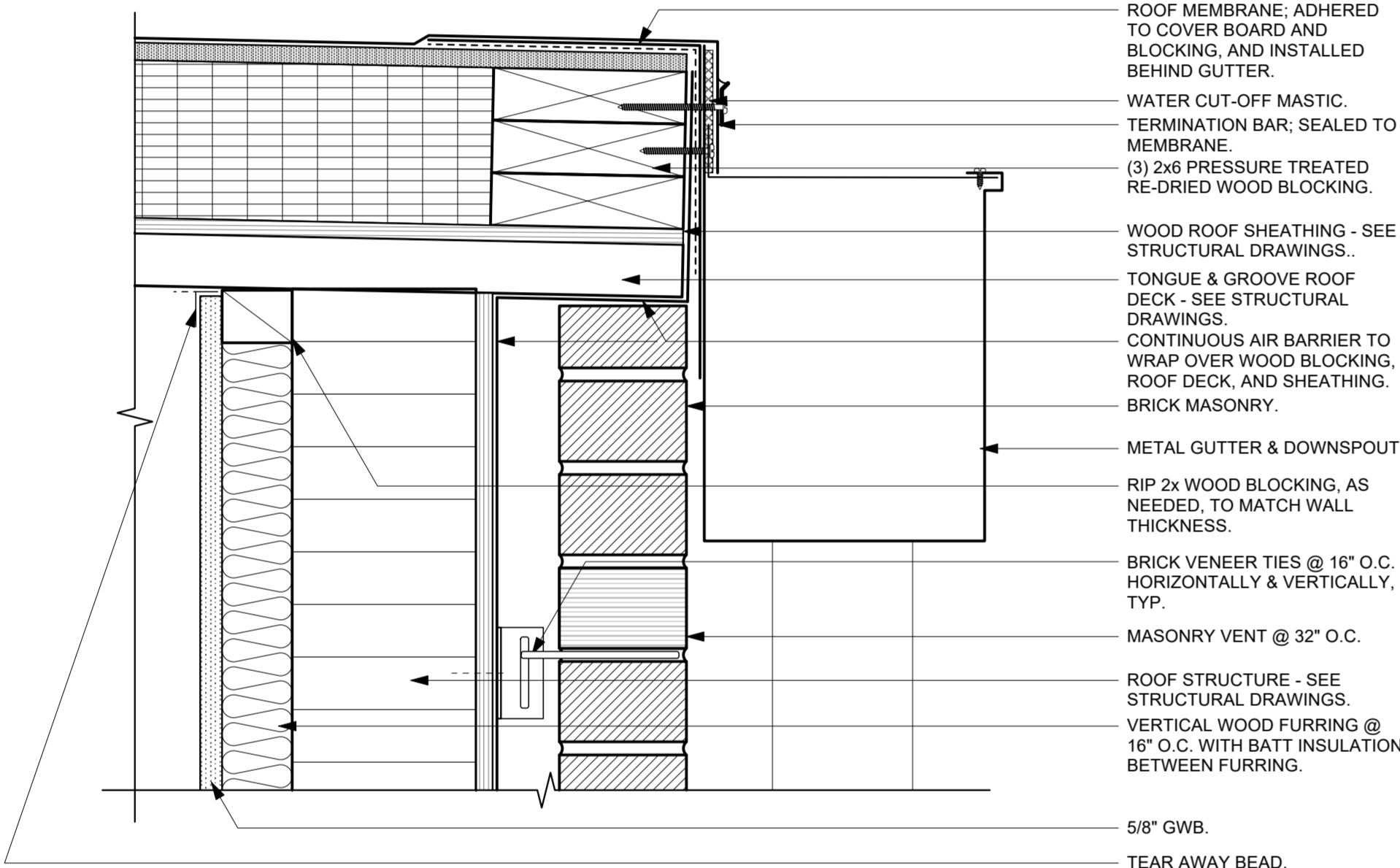
**Enlarged Custodial
Plan and Ladder
Section & Details**

Rev.	Date	Notes

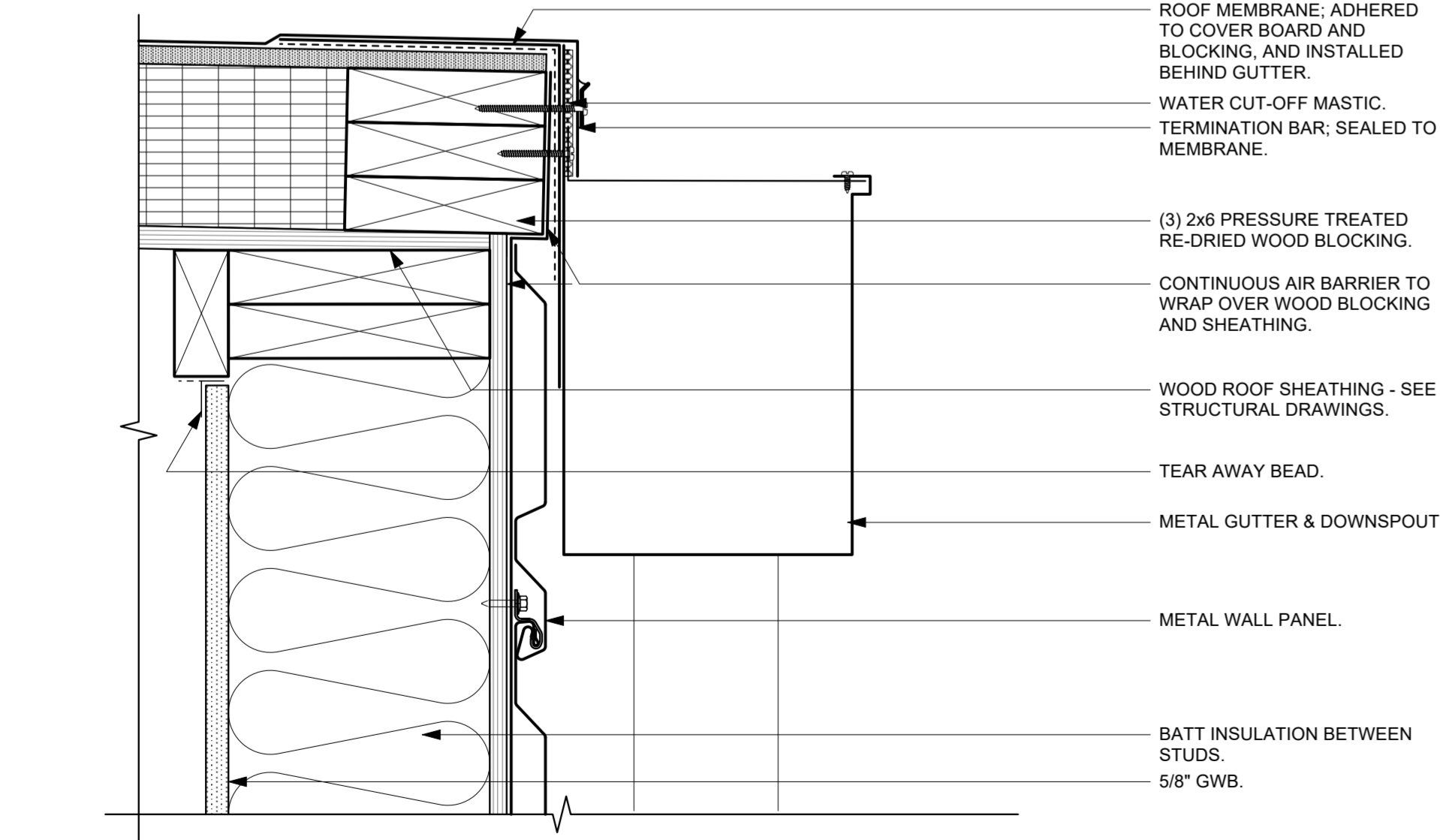
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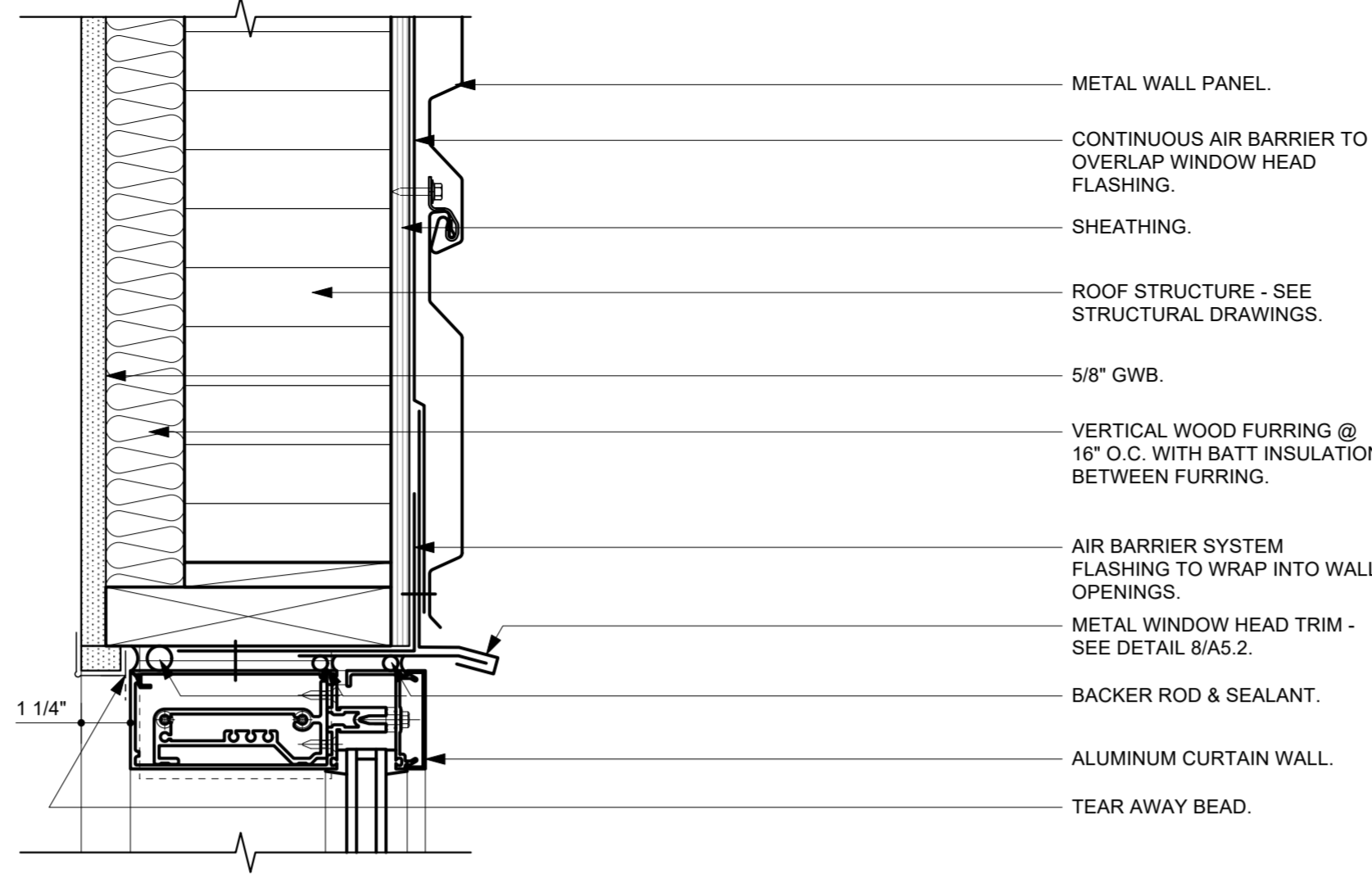
1 Roof Overhang Detail
A5.0 Scale: 3" = 1'-0"



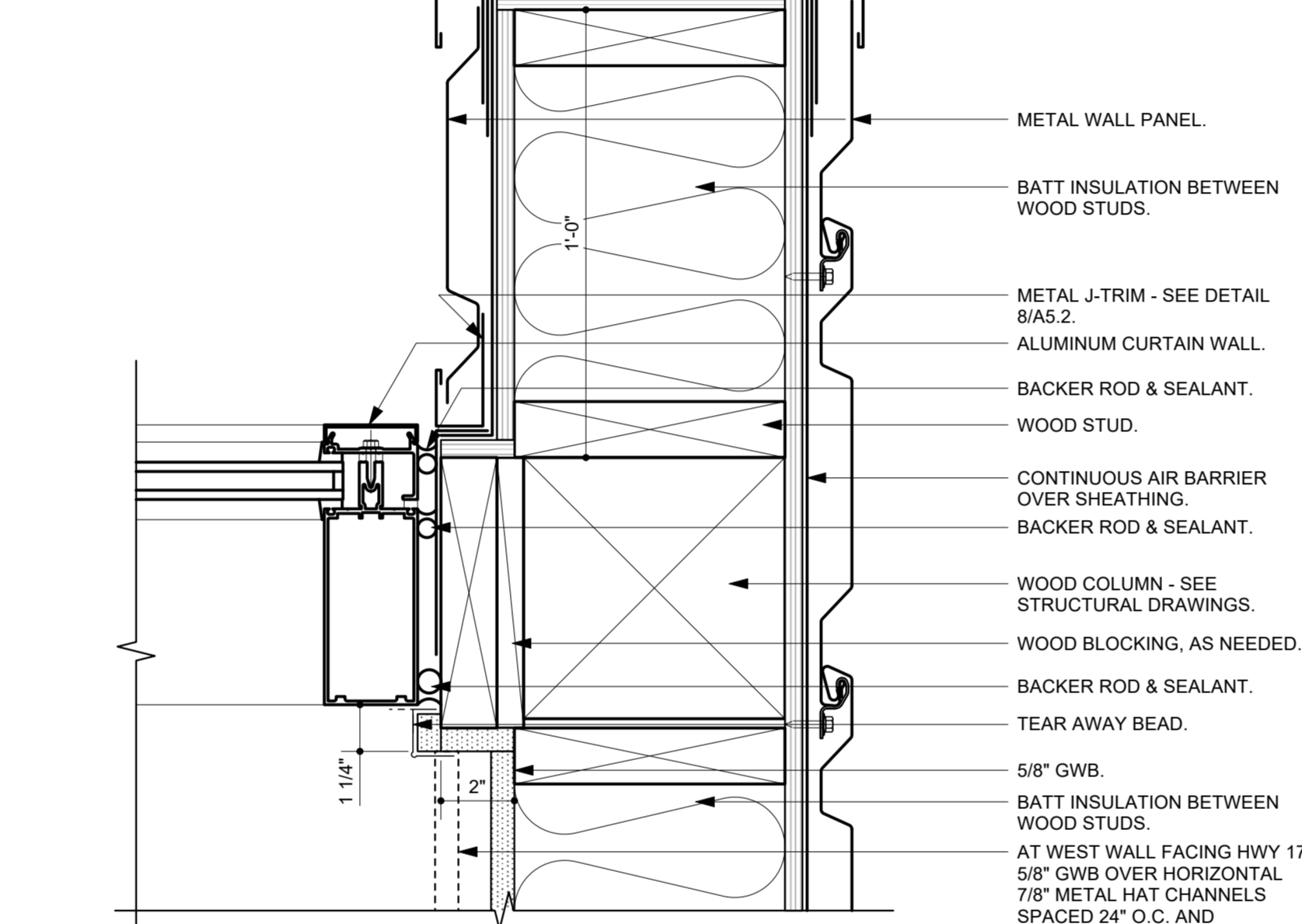
4 Gutter @ Brick Detail
A5.0 Scale: 3" = 1'-0"



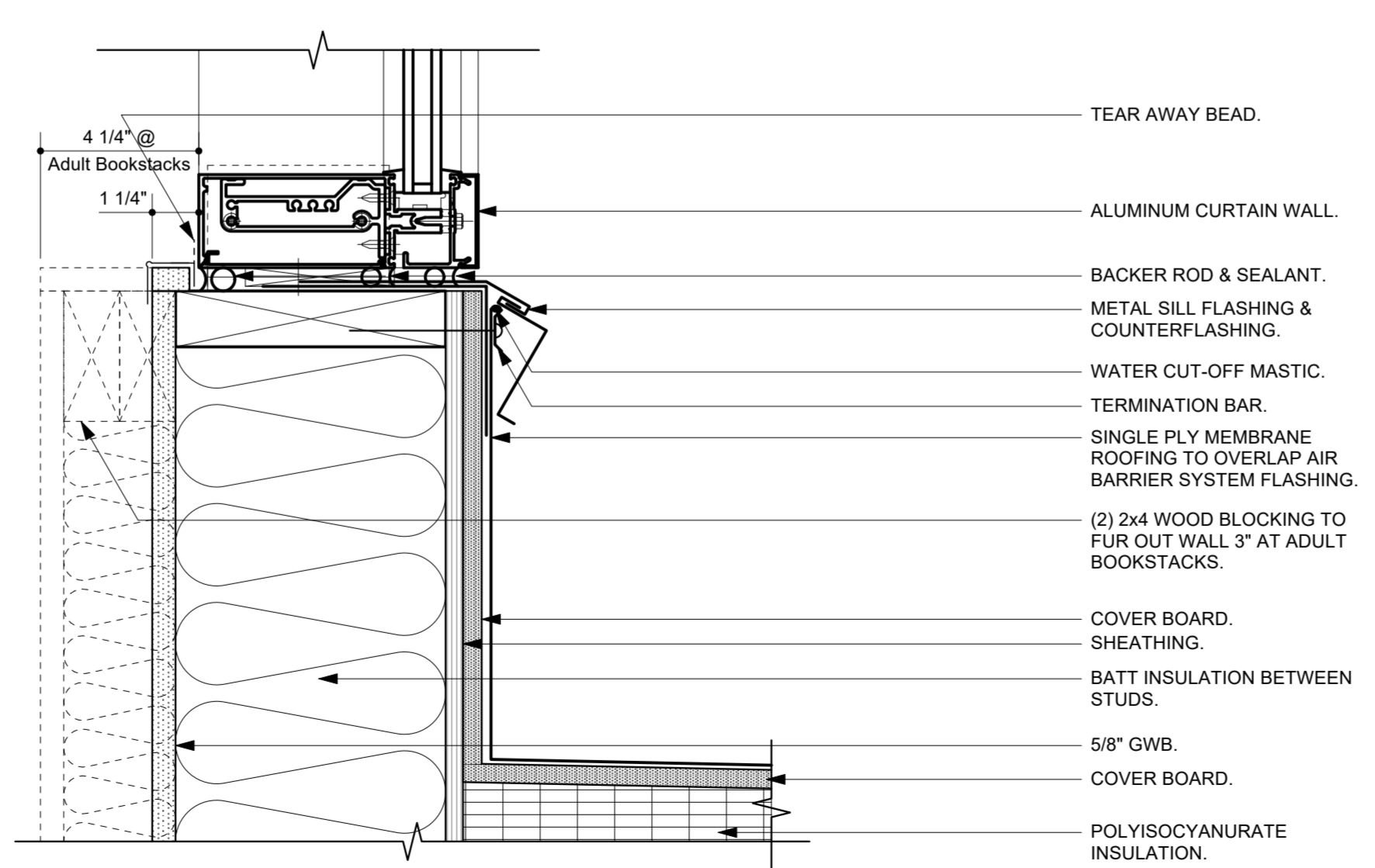
7 Gutter @ Metal Wall Panel Detail
A5.0 Scale: 3" = 1'-0"



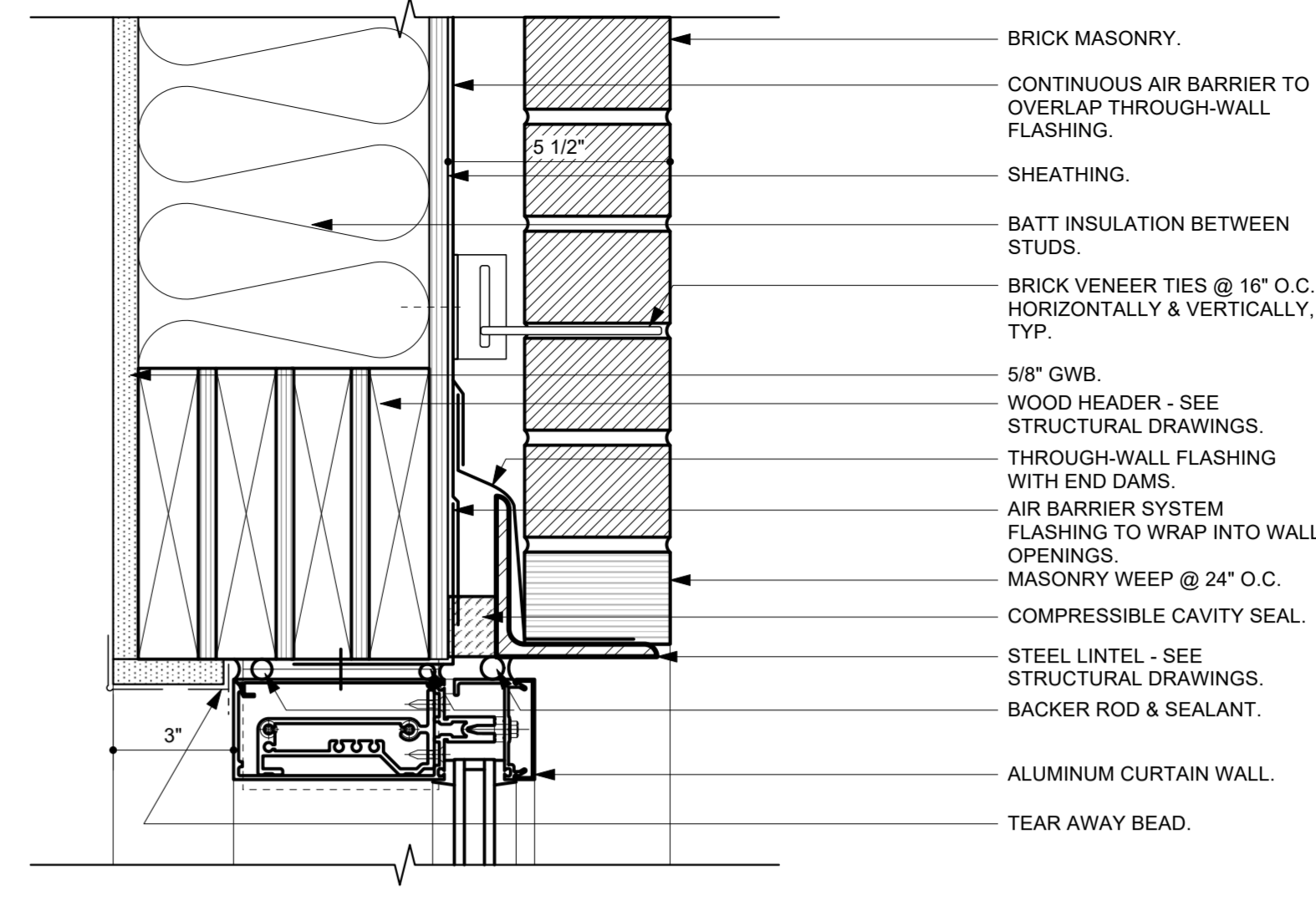
2 Curtain Wall Head @ Metal Wall Panel Detail
A5.0 Scale: 3" = 1'-0"



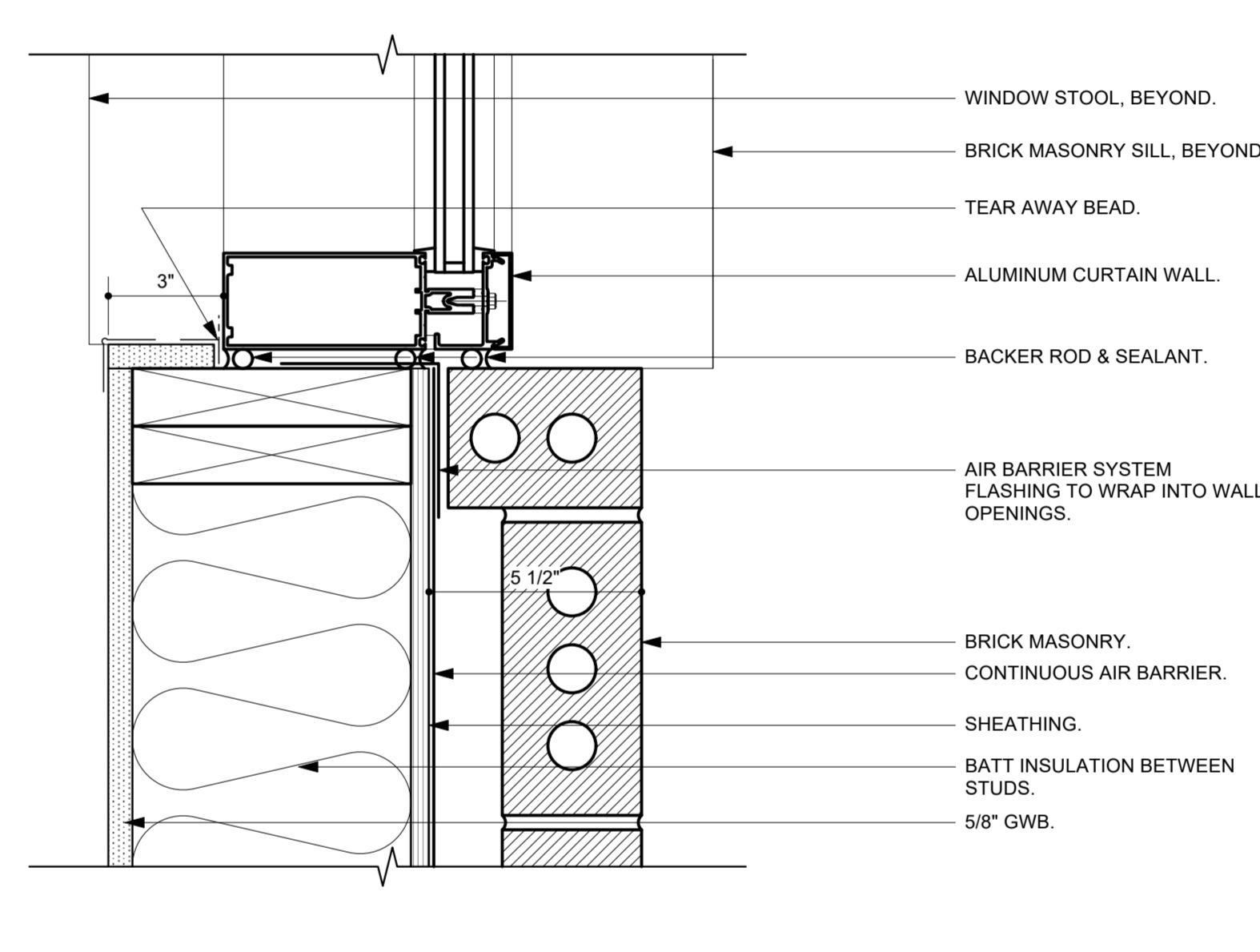
5 Curtain Wall Jamb @ Metal Wall Panel Detail
A5.0 Scale: 3" = 1'-0"



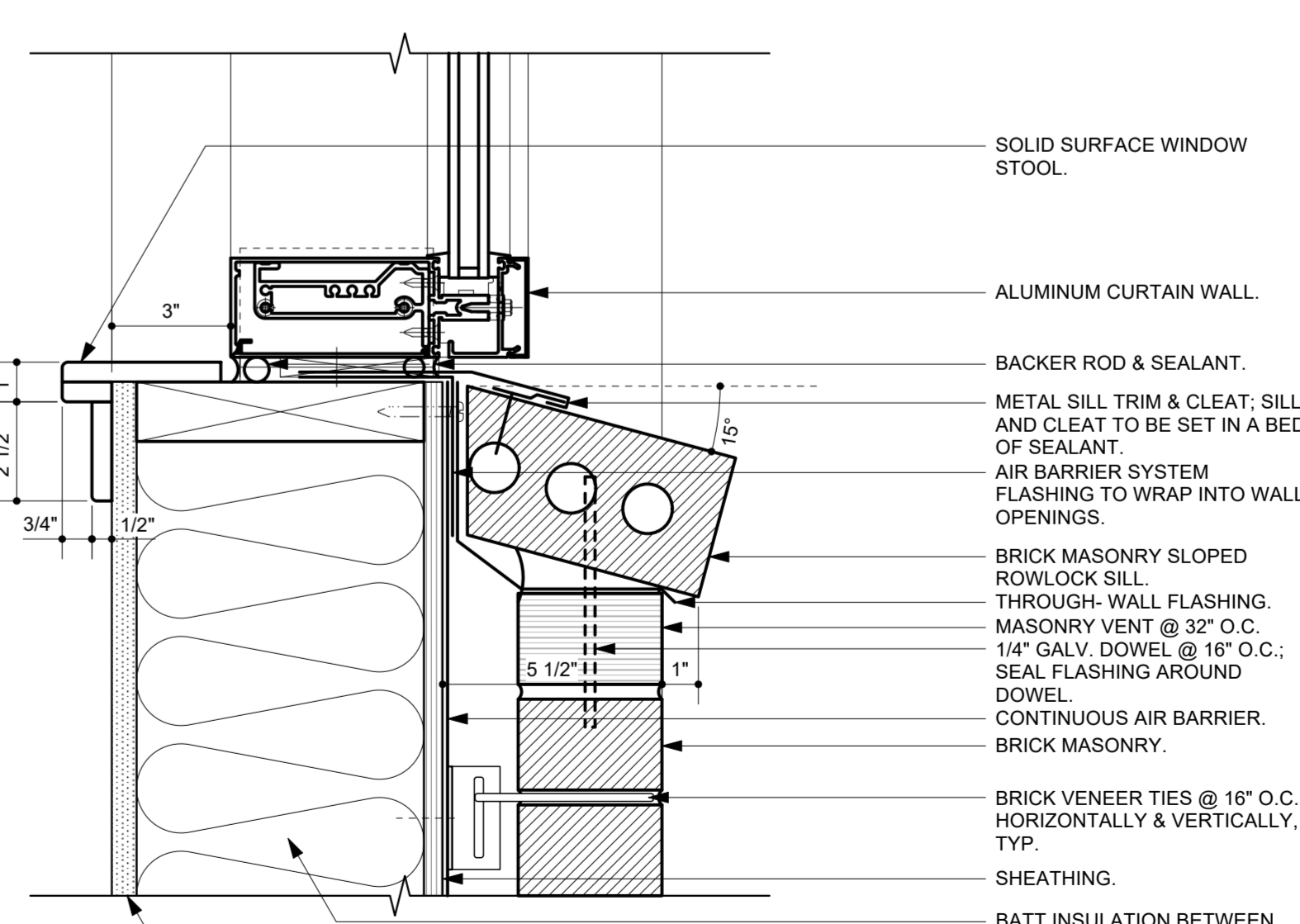
8 Curtain Wall Sill @ Roof Detail
A5.0 Scale: 3" = 1'-0"



3 Curtain Wall Head @ Brick Detail
A5.0 Scale: 3" = 1'-0"

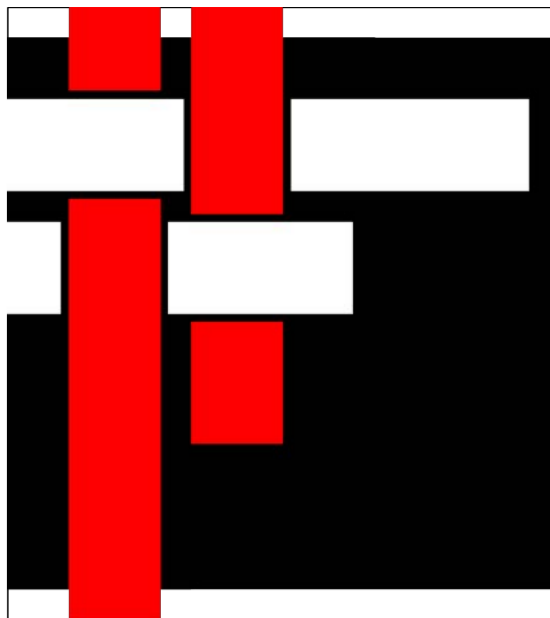


6 Curtain Wall Jamb @ Brick Detail
A5.0 Scale: 3" = 1'-0"



9 Curtain Wall Sill @ Brick Detail
A5.0 Scale: 3" = 1'-0"

SLOPED ROWLOCK SILL TYPICAL NOTES:
-PROVIDE THROUGH-WALL FLASHING DIRECTLY BELOW SLOPED ROWLOCK SILL.
-MECHANICALLY FASTEN THROUGH-WALL FLASHING TO FACE OF WALL.
-AT STUD BACKUP, LAP WATER BARRIER OVER VERTICAL LEG OF THROUGH WALL FLASHING.
-WHERE SILLS ARE BELOW WINDOW OPENINGS WITH BRICK MASONRY JAMBS, PROVIDE FOLDED END DAMS AT JAMB ENDS OF SILL.
-PROVIDE 3/8" DRAIN TUBES W/ EXTENDED WICKS @ 16" O.C. IN MORTAR JOINT ABOVE THROUGH-WALL FLASHING.
-ANCHOR SILLS TO BRICK BELOW WITH 1/4" H.D.G. DOWEL ANCHORS @ 16" O.C. SEAL PENETRATIONS IN THROUGH-WALL FLASHING.

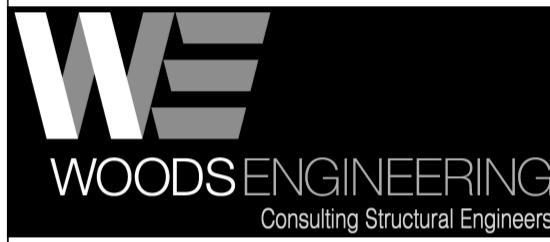


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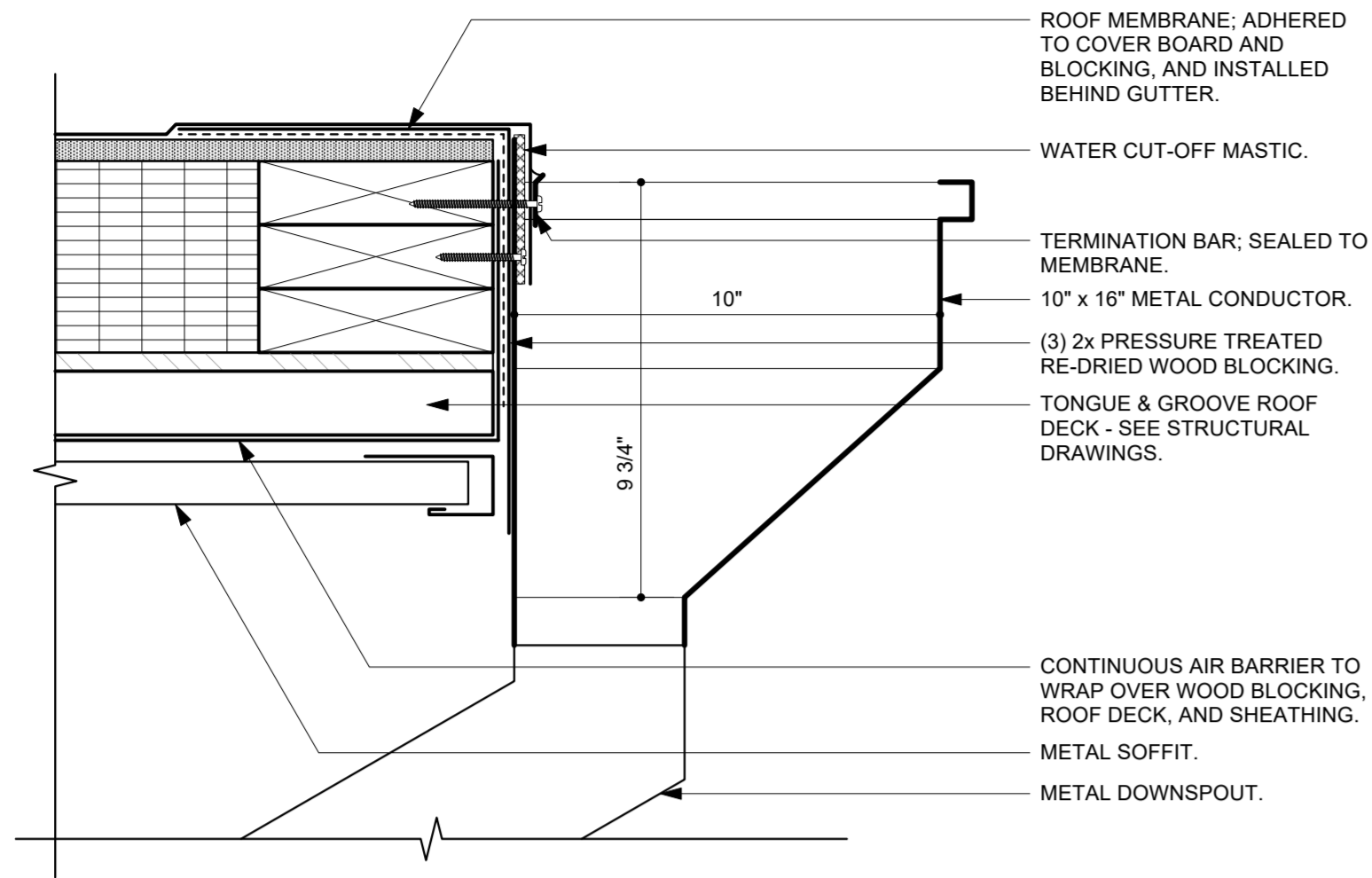
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Issue Date: October 6, 2025

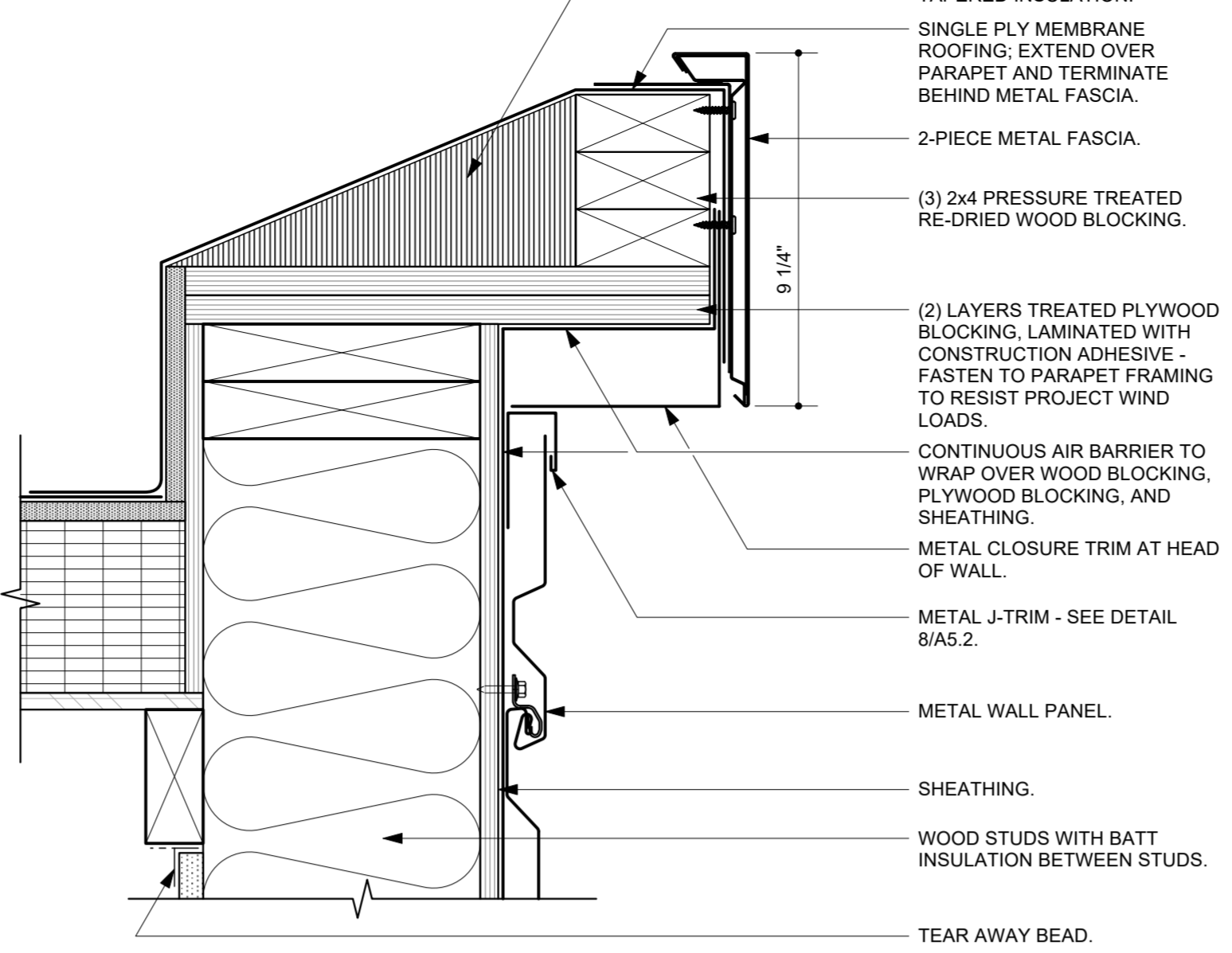
Exterior Details

Rev.	Date	Notes

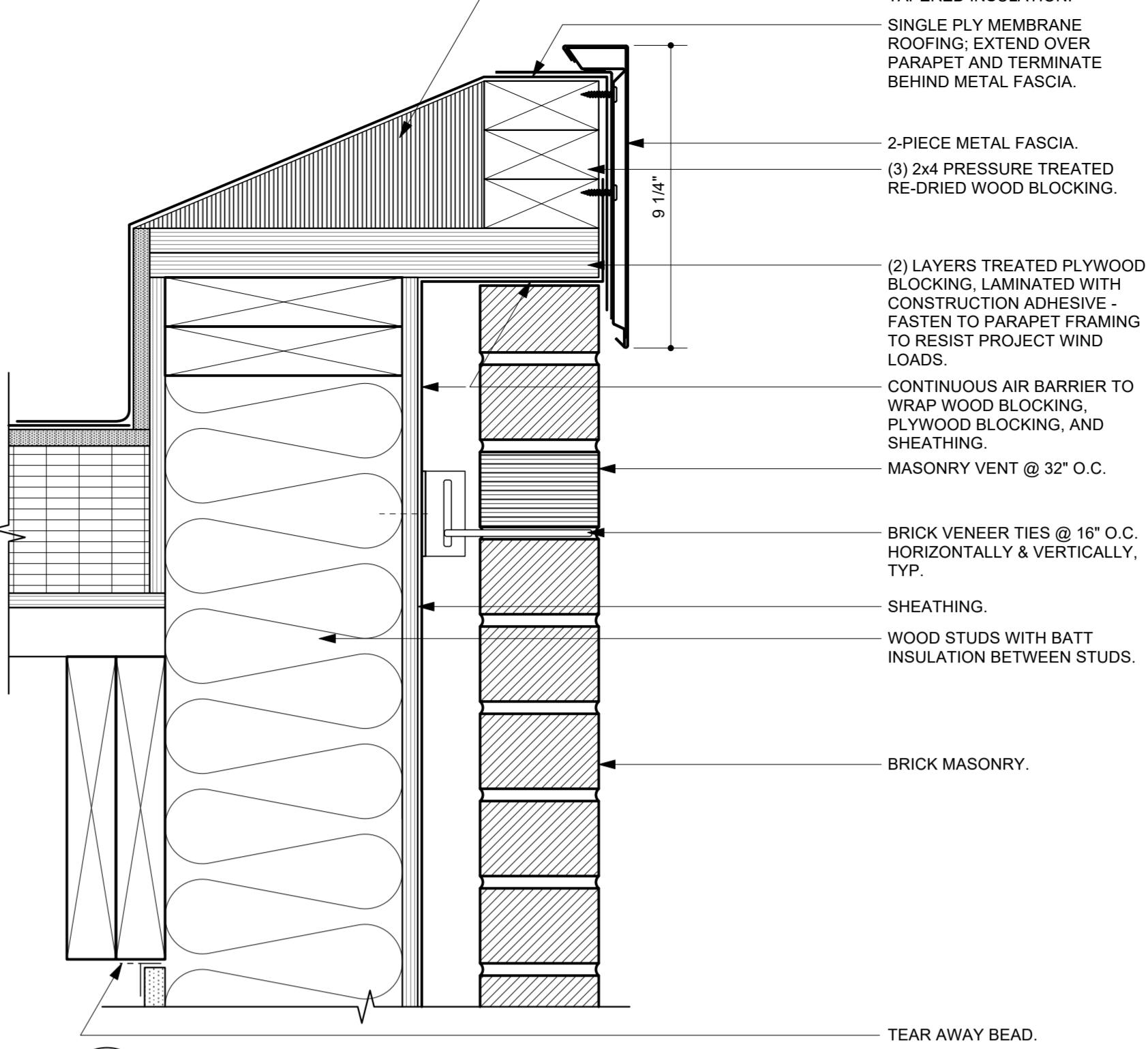
A5.0



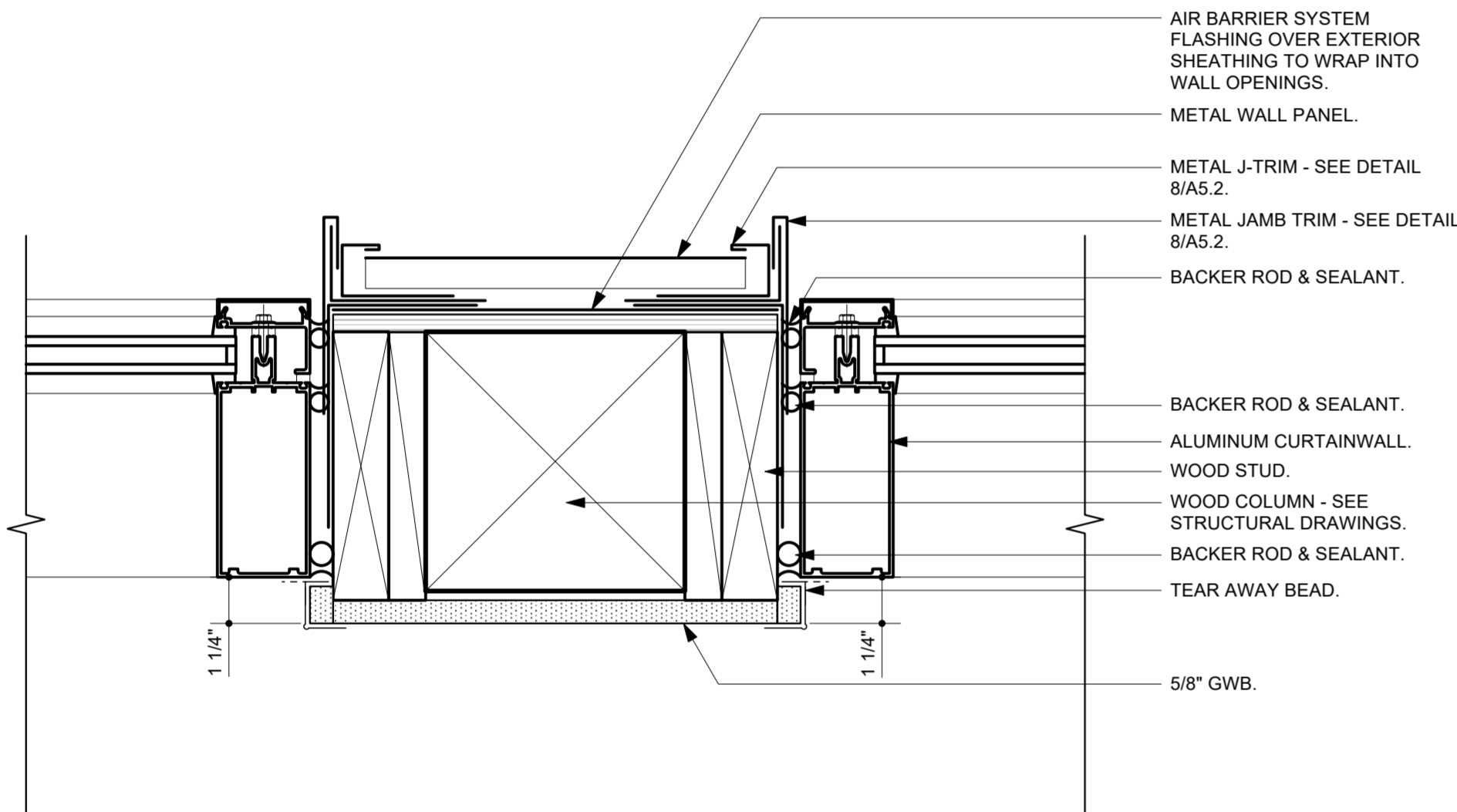
1 Roof Conductor Head Detail
A5.1 Scale: 3" = 1'-0"



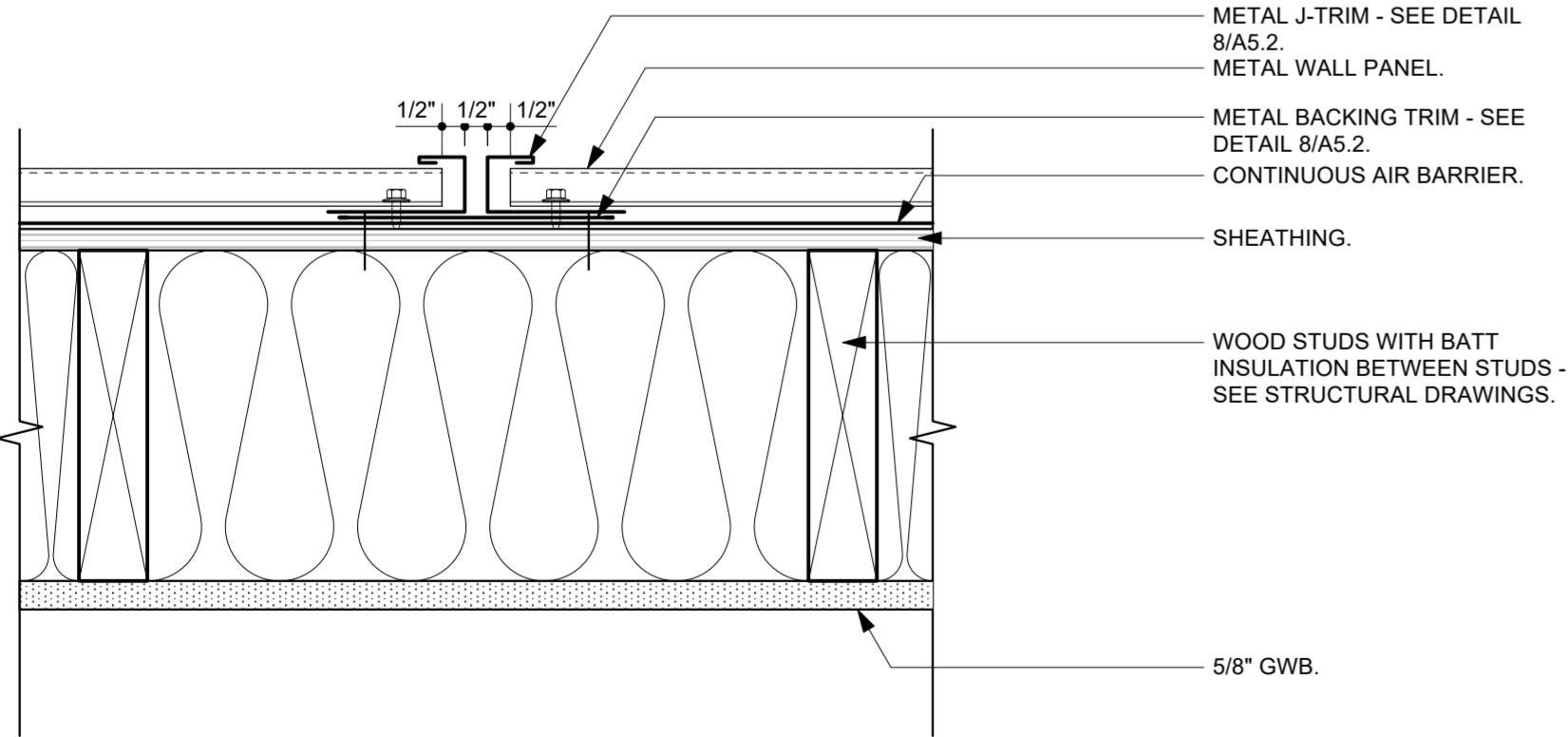
2 Roof Parapet @ Metal Wall Panel Detail
A5.1 Scale: 3" = 1'-0"



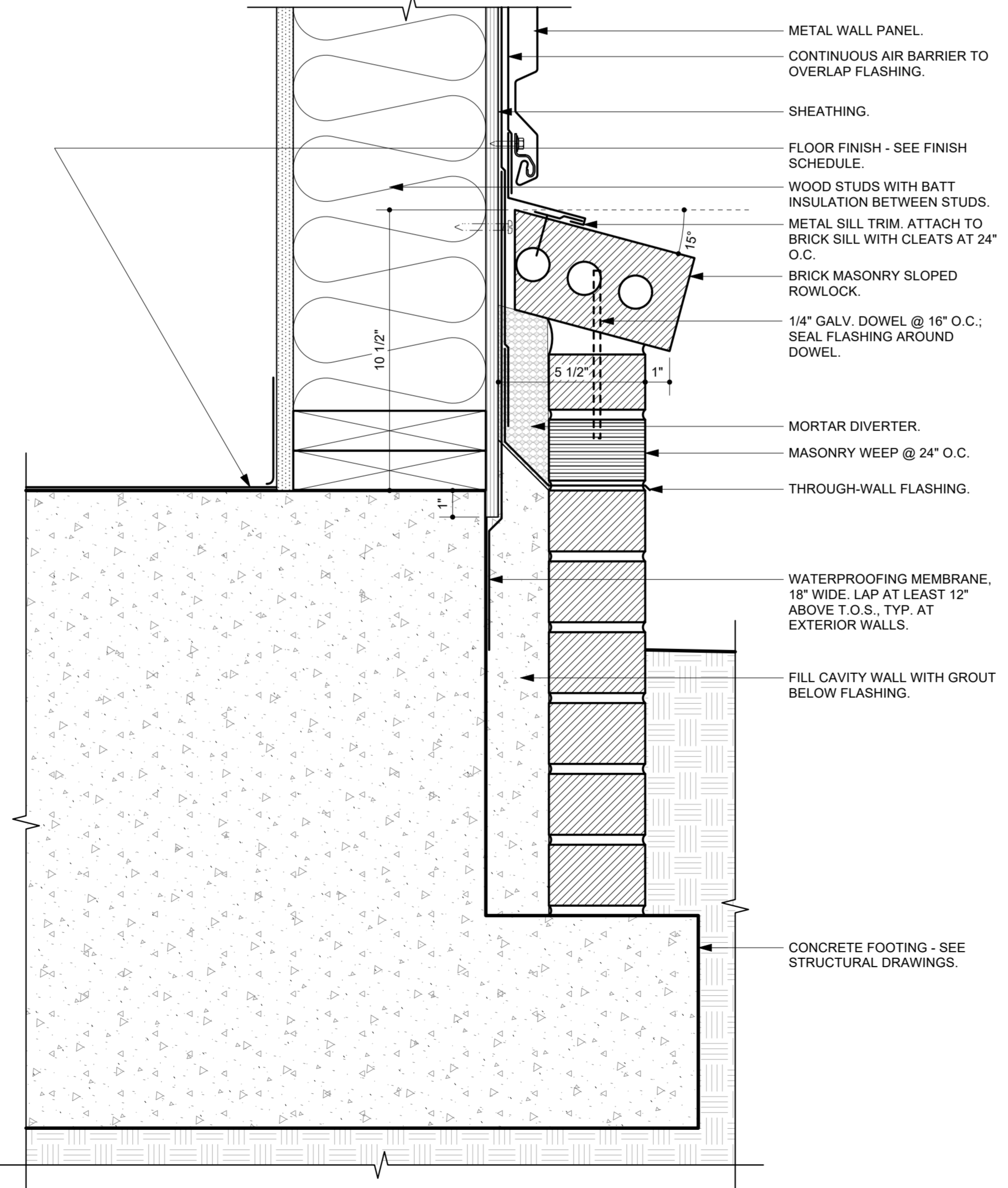
3 Roof Parapet @ Brick Detail
A5.1 Scale: 3" = 1'-0"



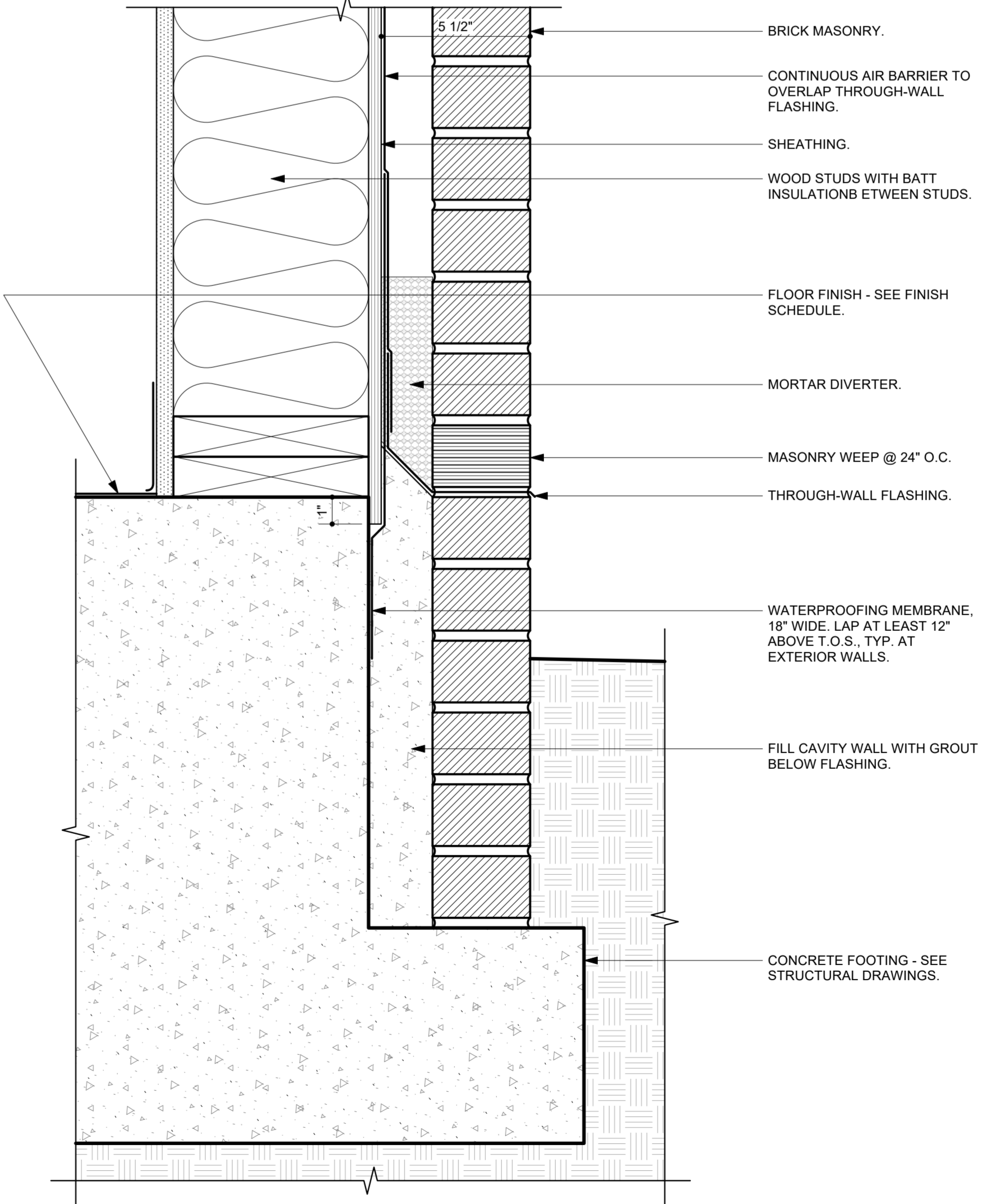
4 Curtain Wall Jamb @ Metal Wall Panel Detail
A5.1 Scale: 3" = 1'-0"



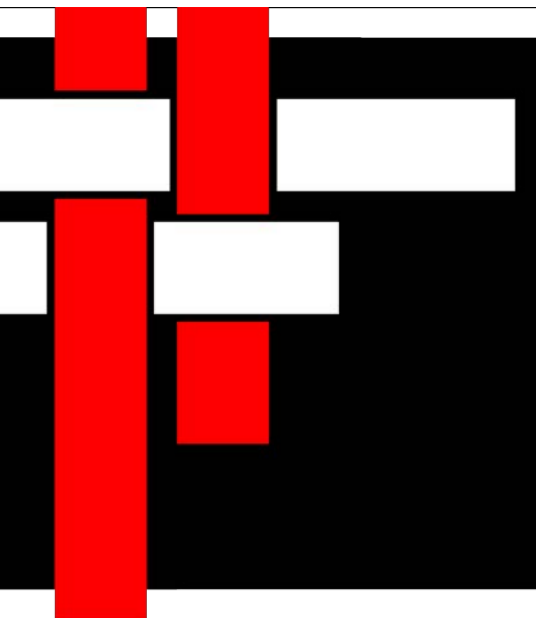
7 Metal Wall Panel Expansion Joint
A5.1 Scale: 3" = 1'-0"



8 Foundation Detail @ Metal Wall Panel
A5.1 Scale: 3" = 1'-0"



9 Foundation Detail @ Brick
A5.1 Scale: 3" = 1'-0"

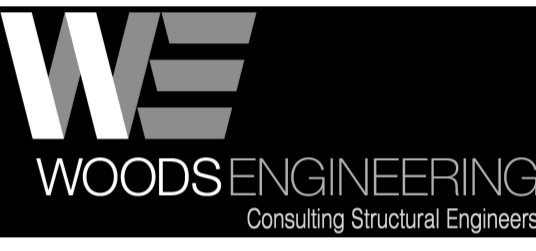


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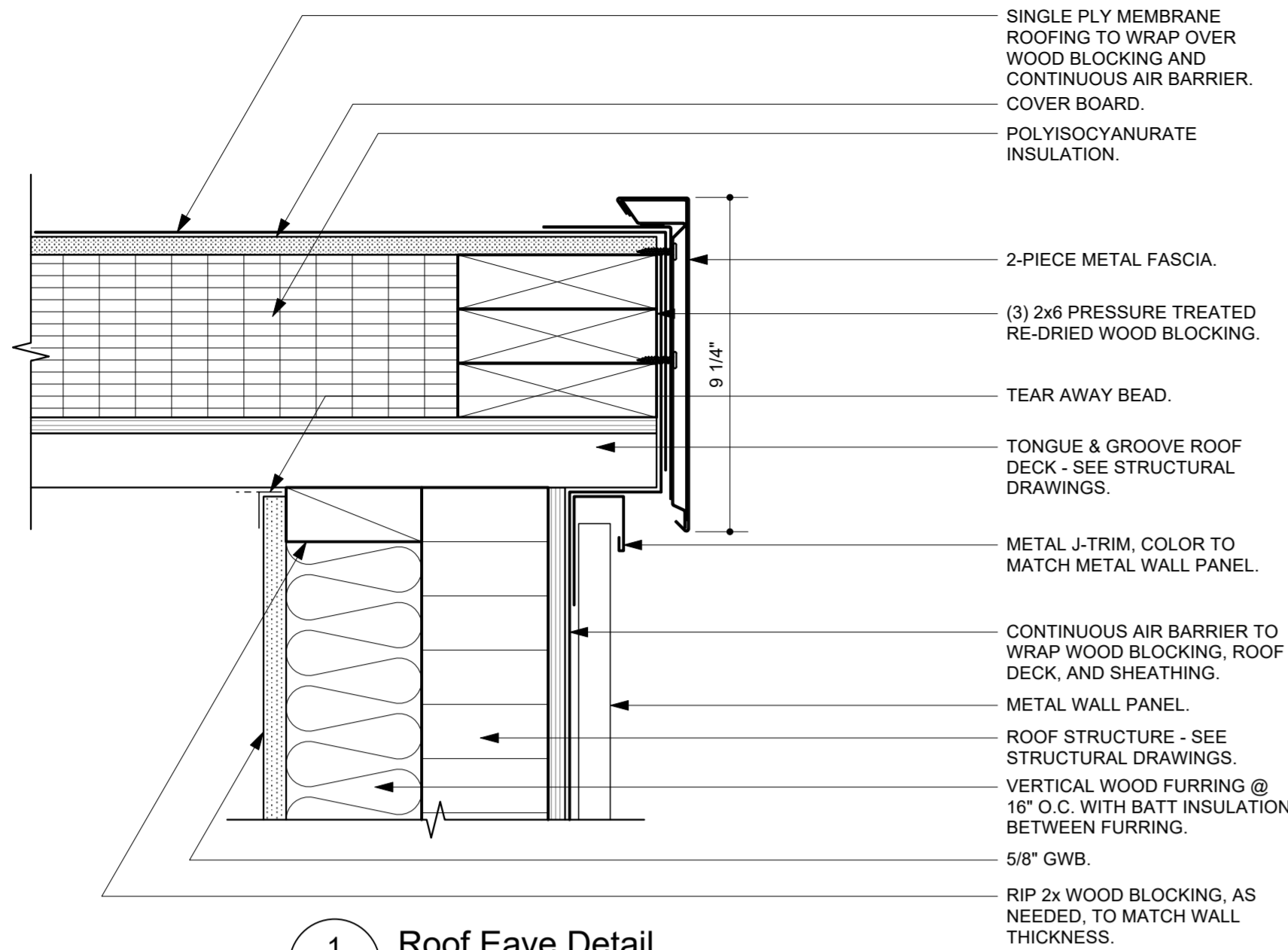
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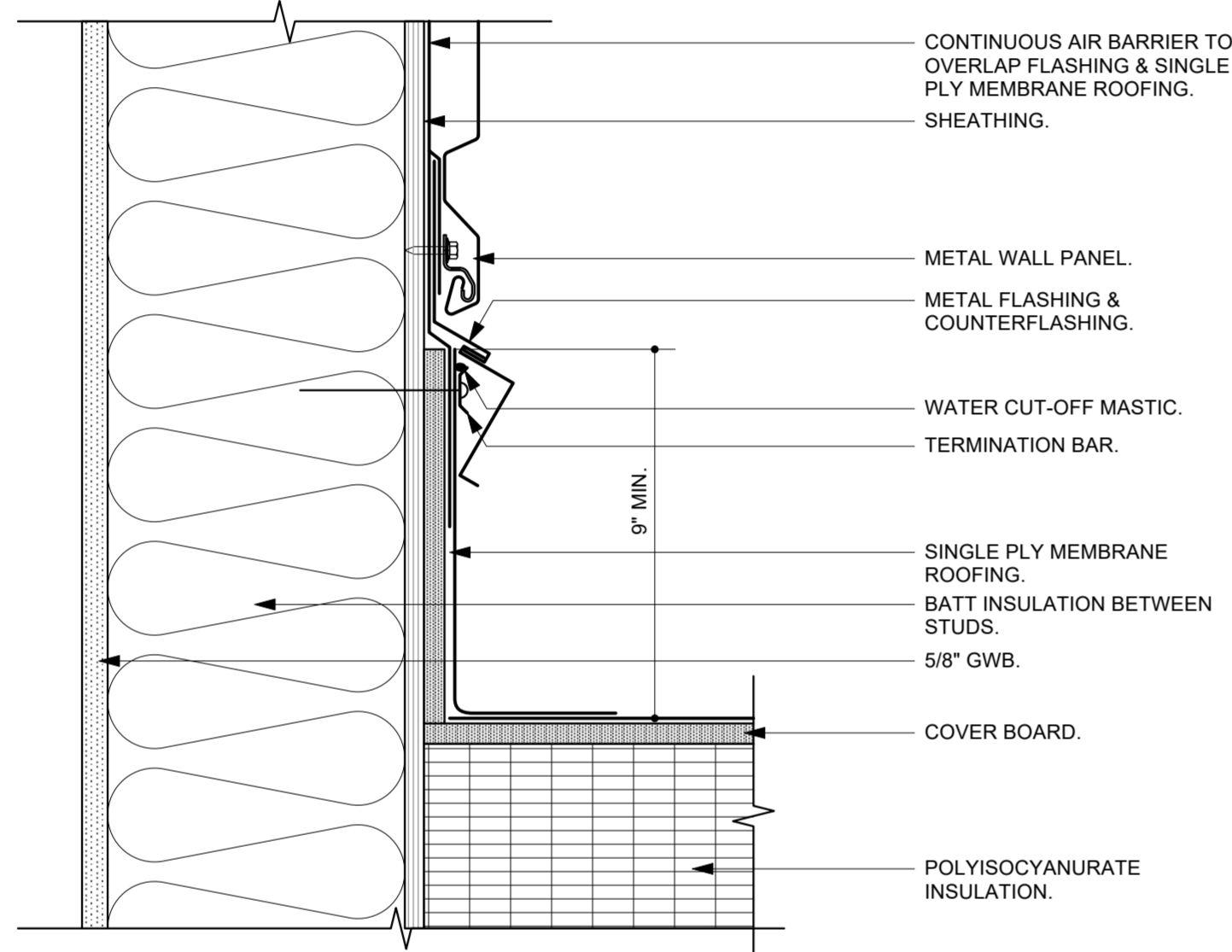
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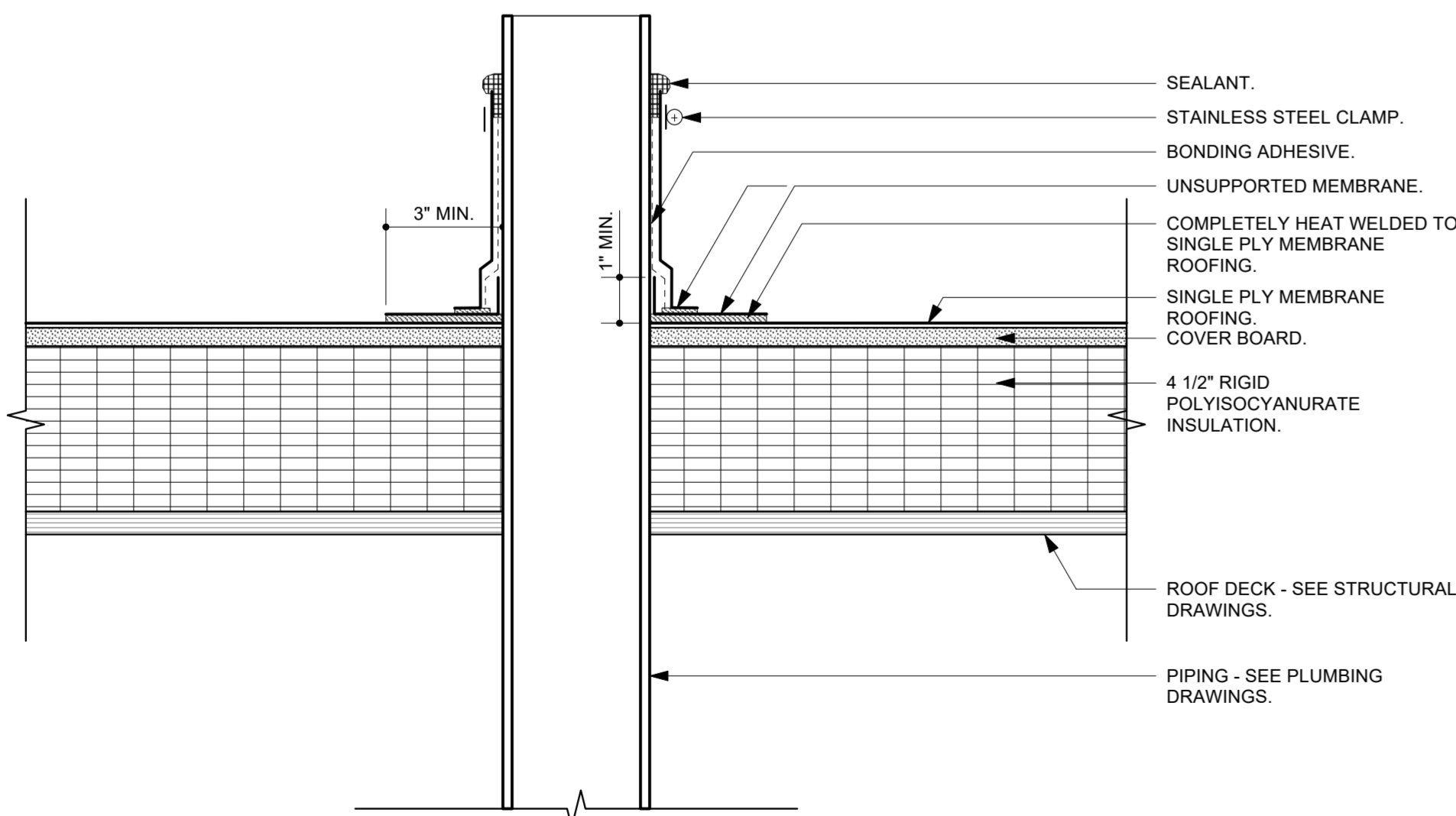
Exterior Details		
Rev.	Date	Notes



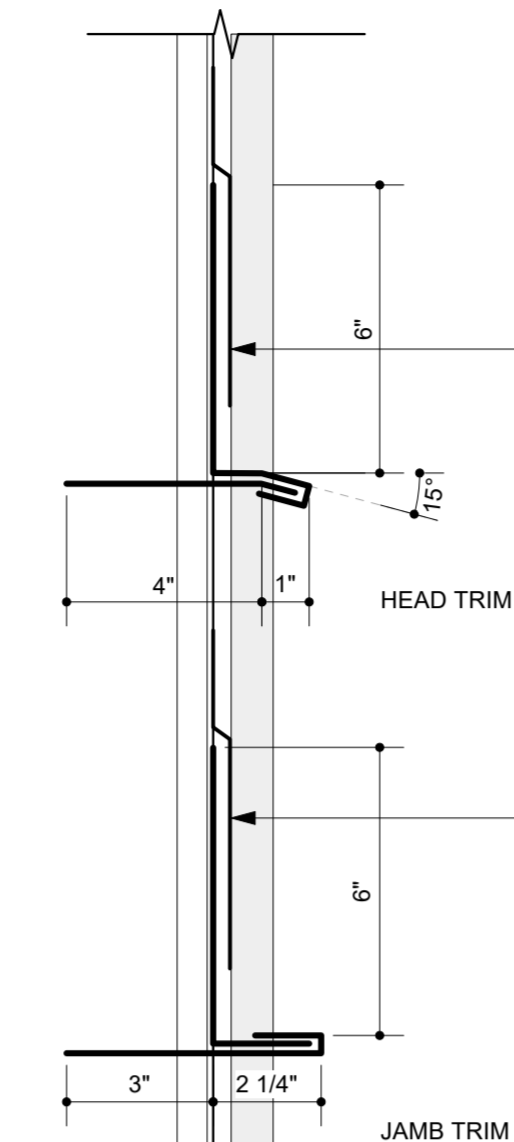
1 Roof Eave Detail
A5.2 Scale: 3" = 1'-0"



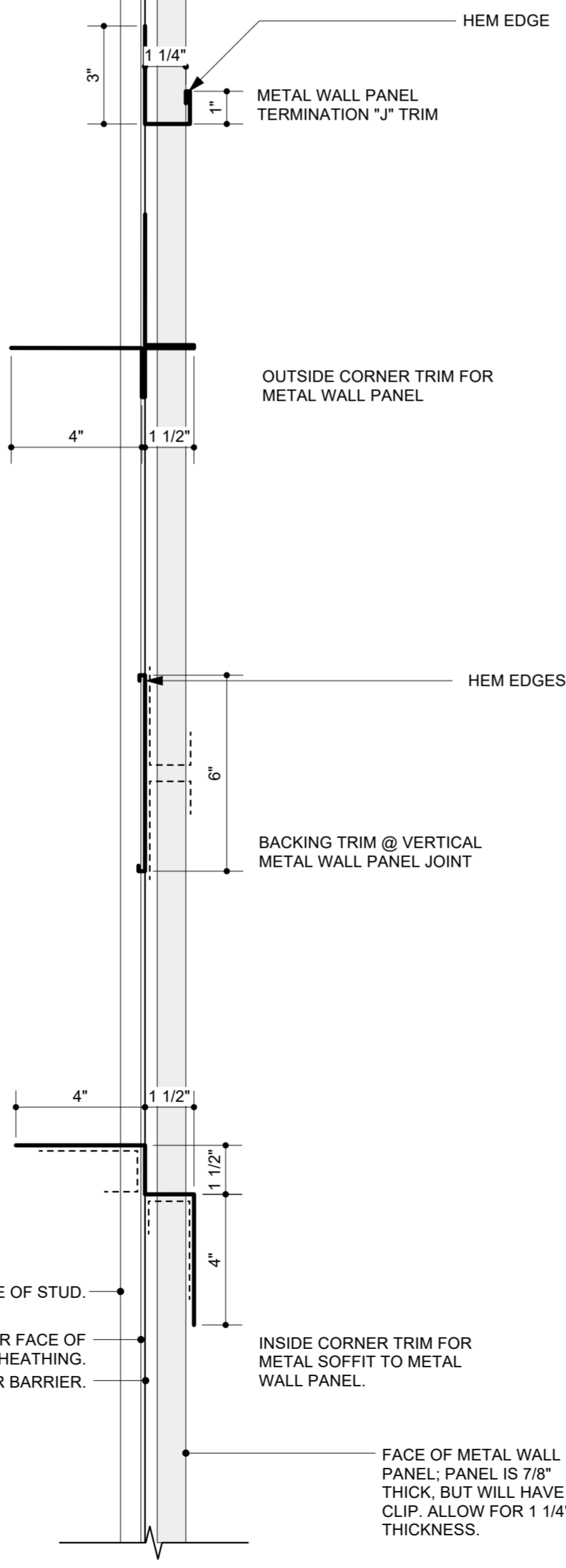
4 Metal Wall Panel to Roof Detail
A5.2 Scale: 3" = 1'-0"



7 Piping Thru Roofing Detail
A5.2 Scale: 3" = 1'-0"

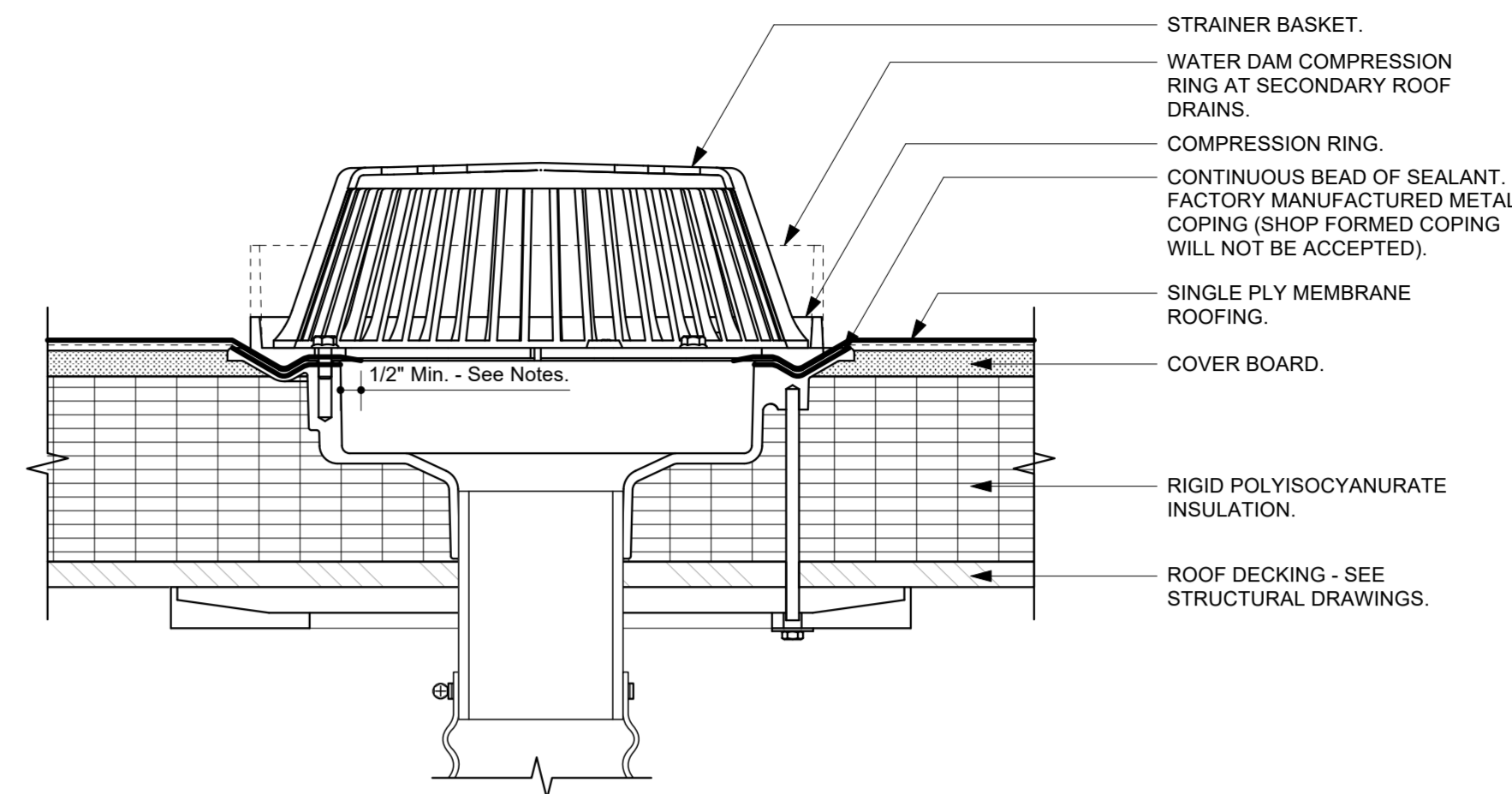


8 Metal Trim Details
A5.2 Scale: 3" = 1'-0"



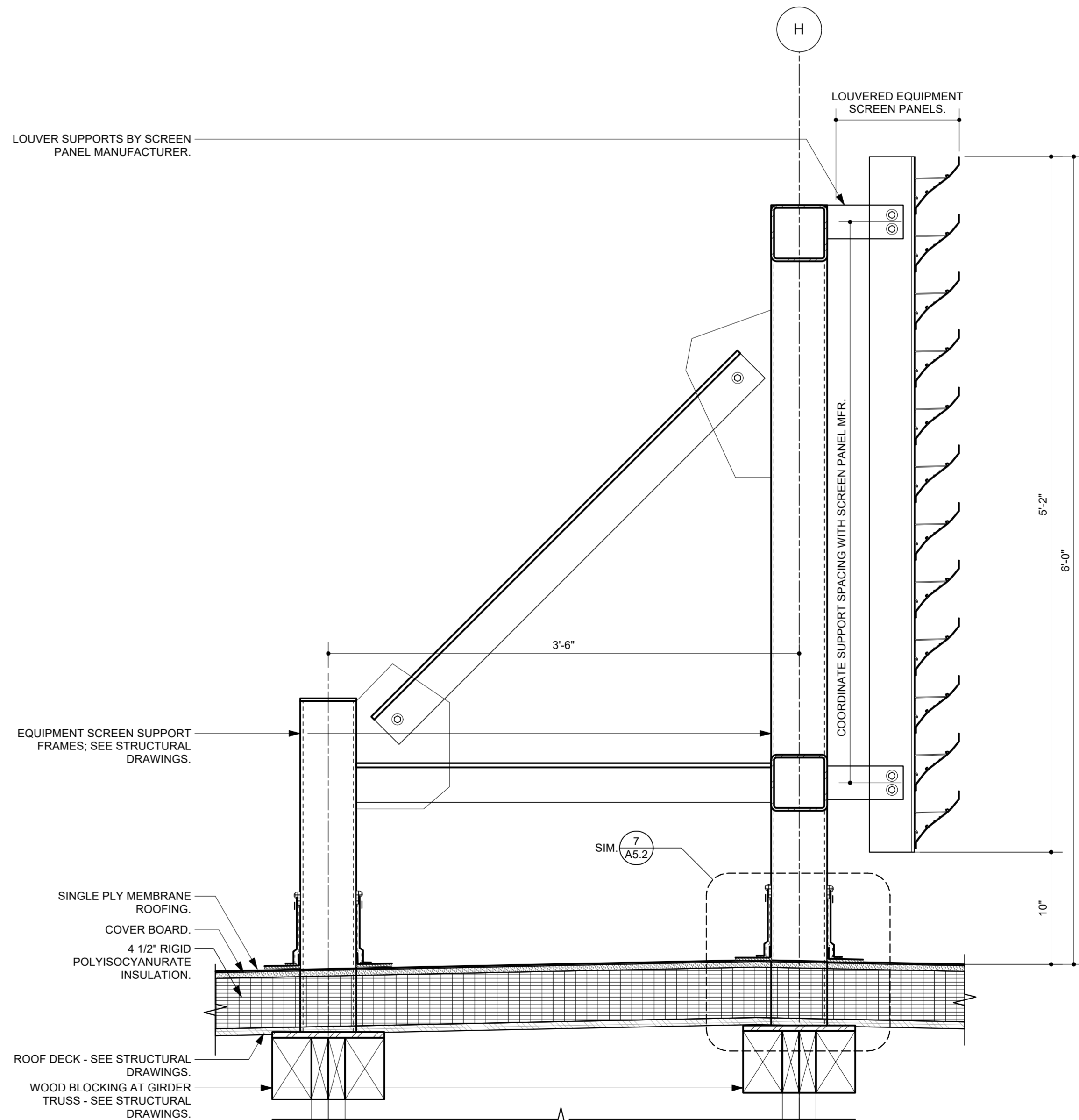
AIR BARRIER SHALL BE CONTINUOUS TO ALL EXTENTS OF THE WALL AND ALL METAL FLASHING SHALL BE OVERLAPPED WITH AIR BARRIER FLASHING.

AIR BARRIER SHALL BE CONTINUOUS TO ALL EXTENTS OF THE WALL AND ALL METAL FLASHING SHALL BE OVERLAPPED WITH AIR BARRIER FLASHING.

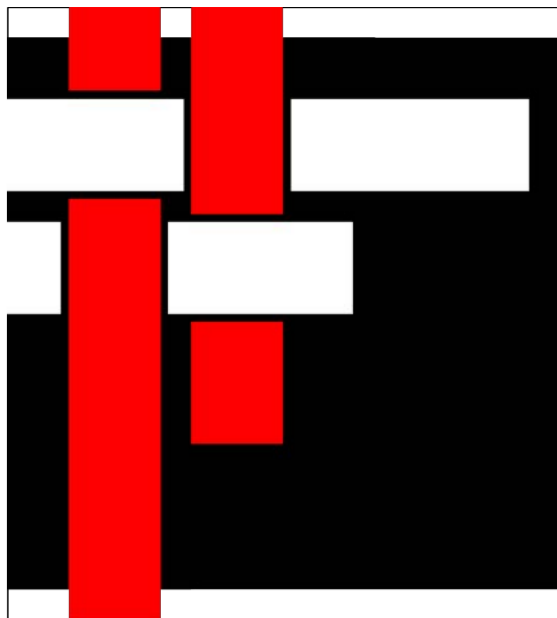


3 Roof Drain Detail
A5.2 Scale: 3" = 1'-0"

LOUVER SUPPORTS BY SCREEN PANEL MANUFACTURER.



9 Equipment Screen Detail
A5.2 Scale: 1 1/2" = 1'-0"

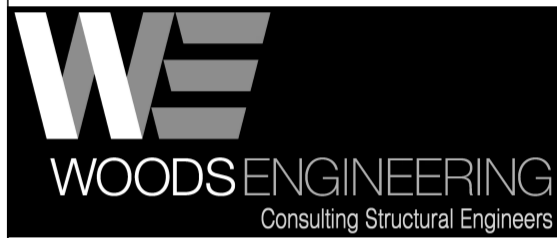


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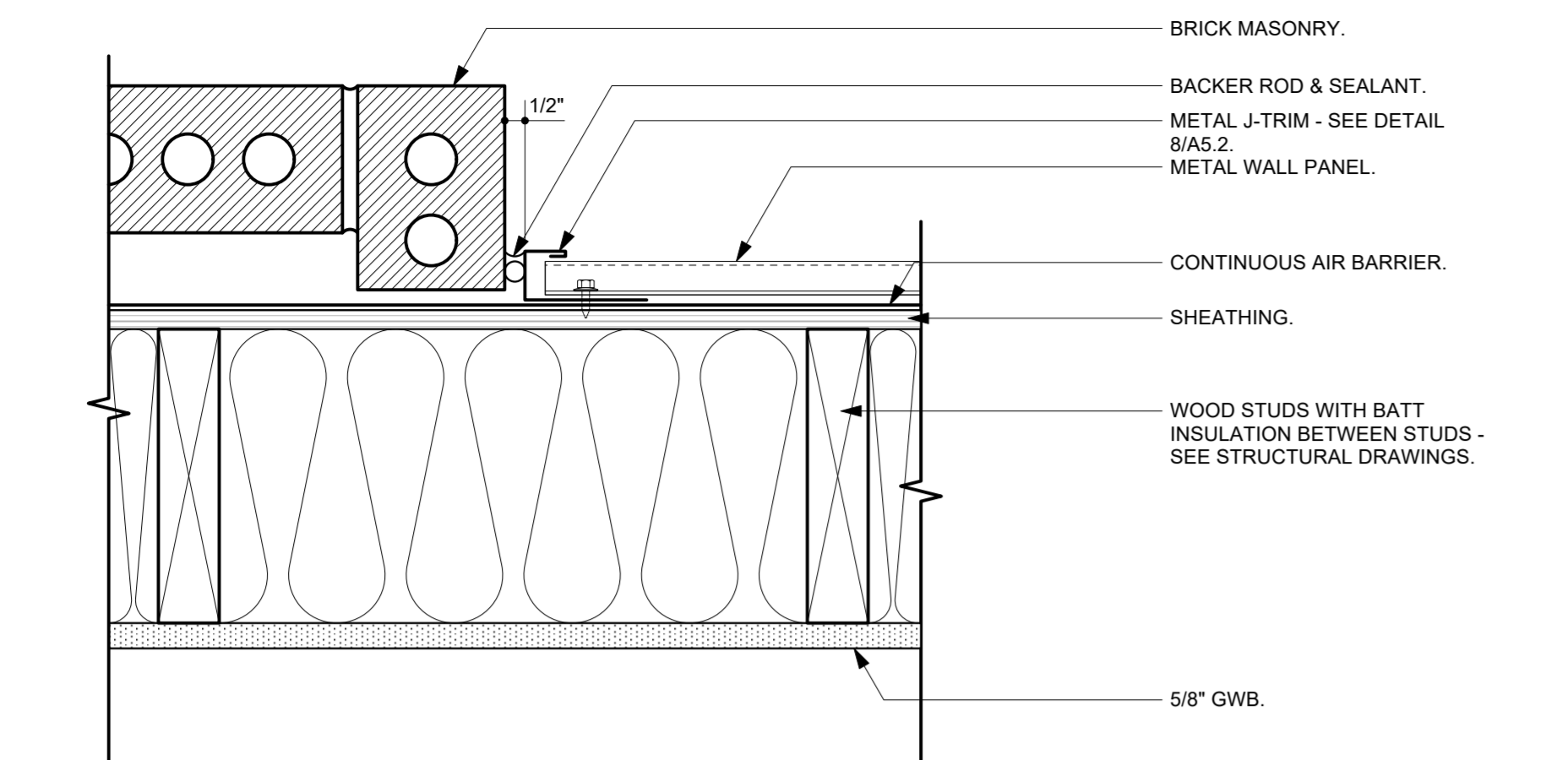
Construction Drawings

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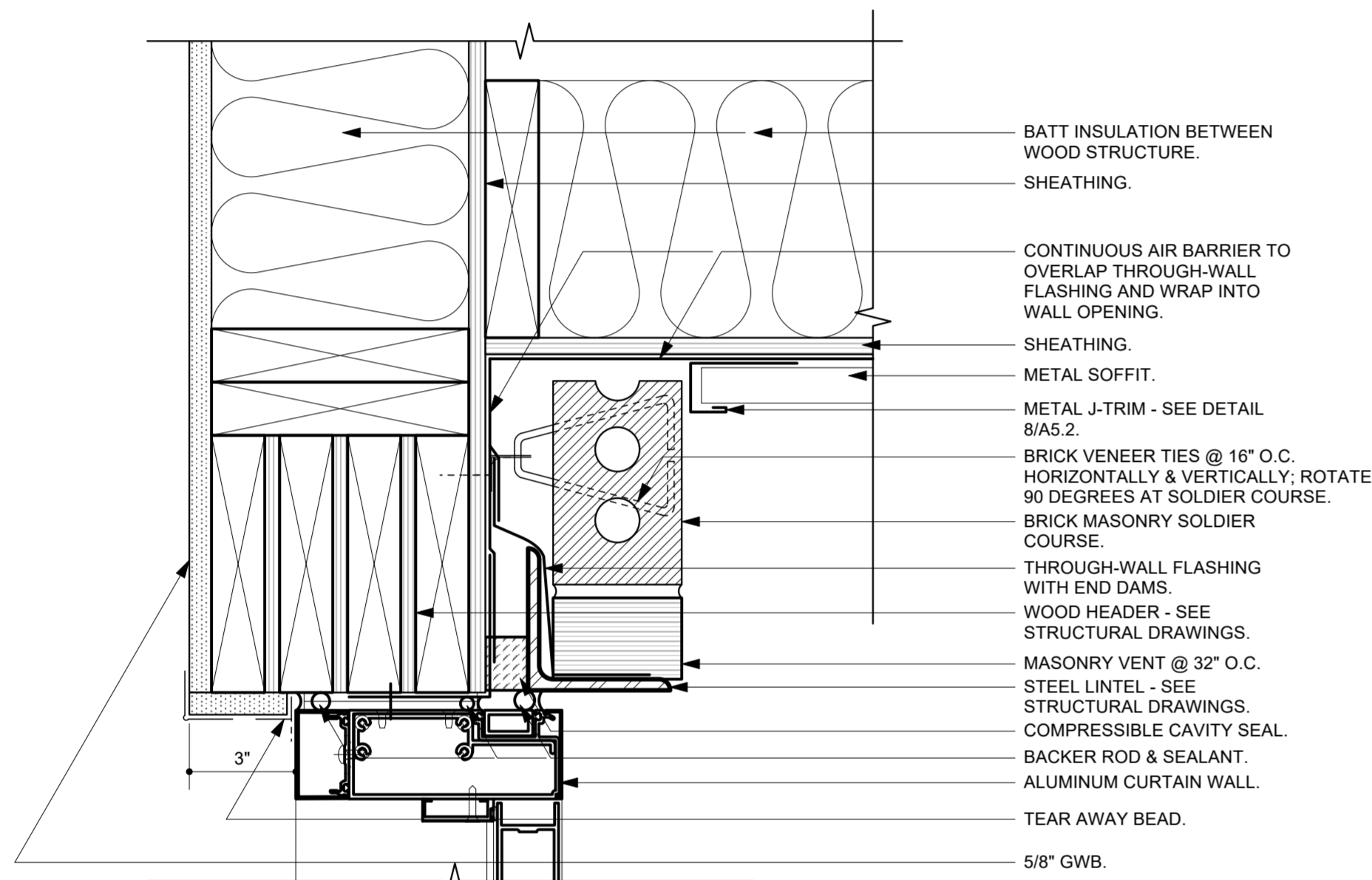
Exterior Details

Rev.	Date	Notes

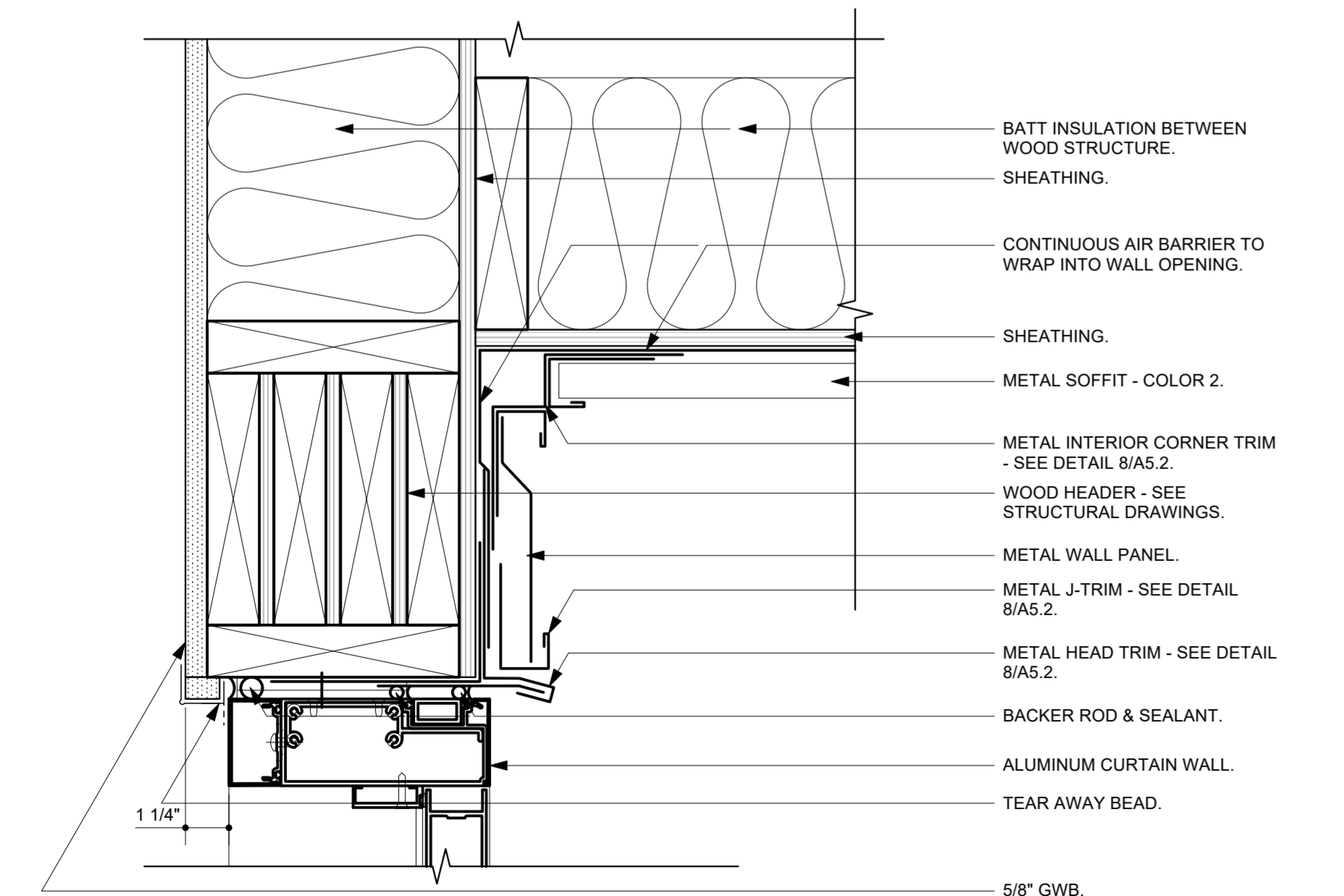
A5.2



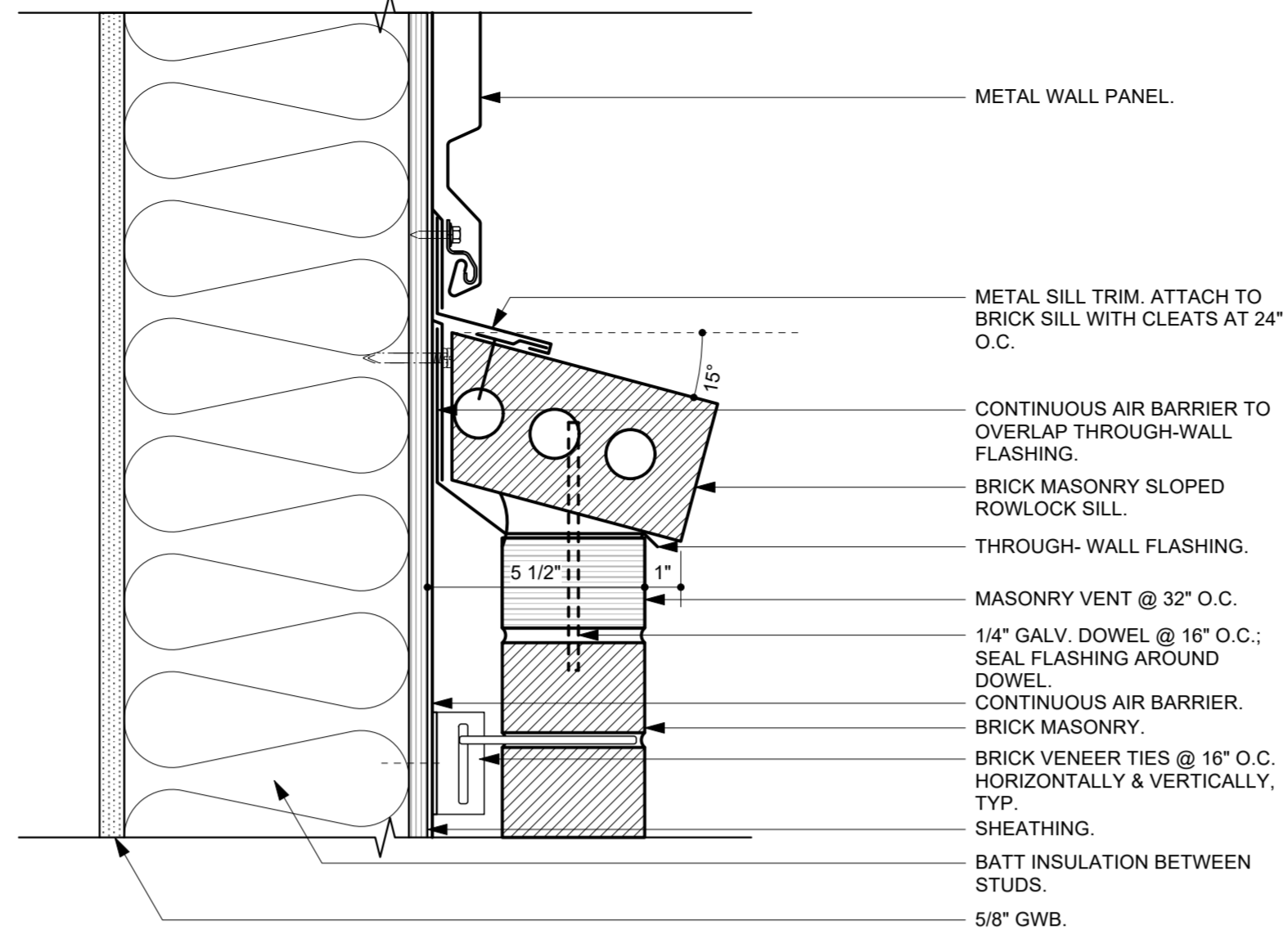
1 Metal Wall Panel to Brick Detail
A5.3 Scale: 3" = 1'-0"



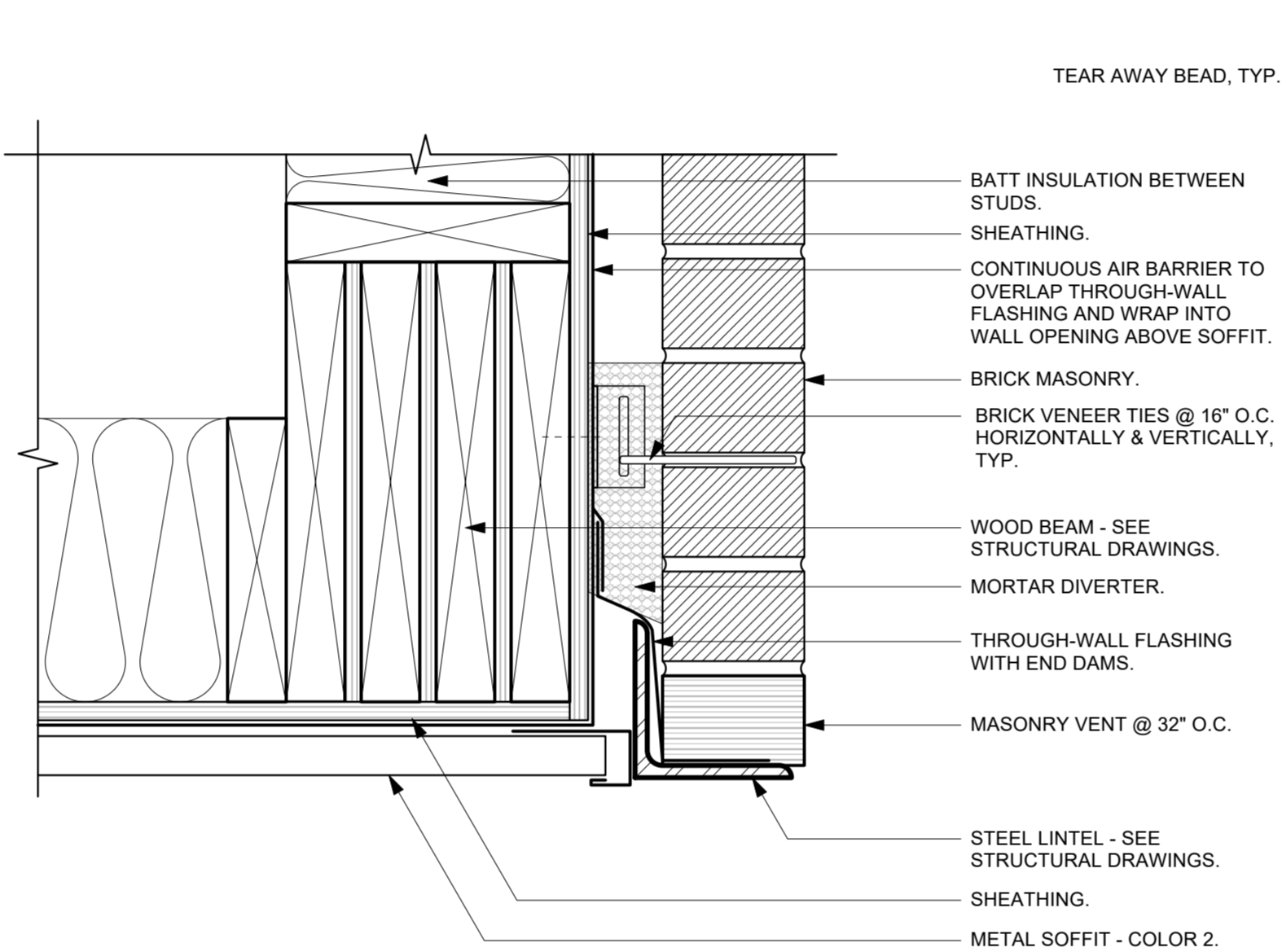
4 Soffit @ Brick Detail
A5.3 Scale: 3" = 1'-0"



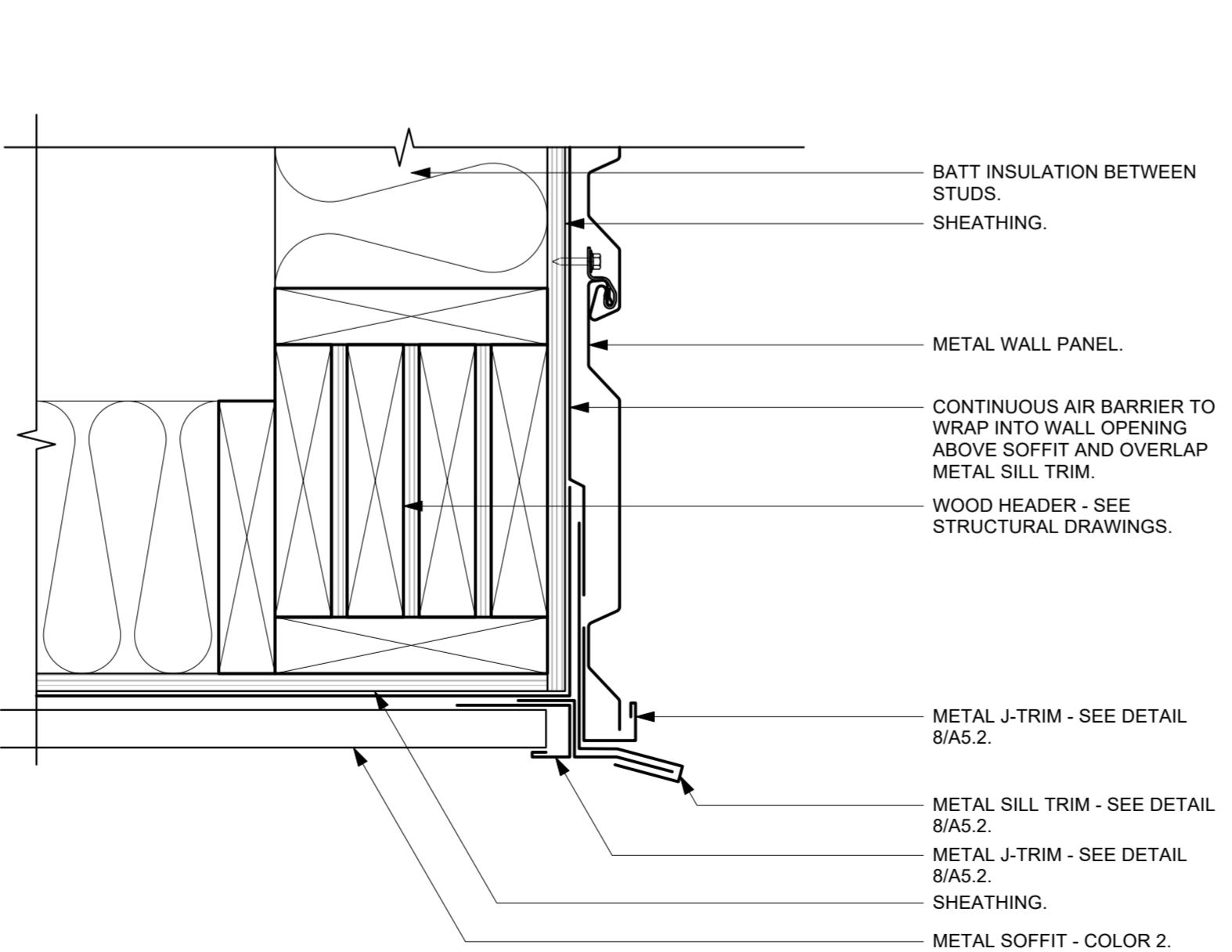
7 Soffit @ Metal Wall Panel Detail
A5.3 Scale: 3" = 1'-0"



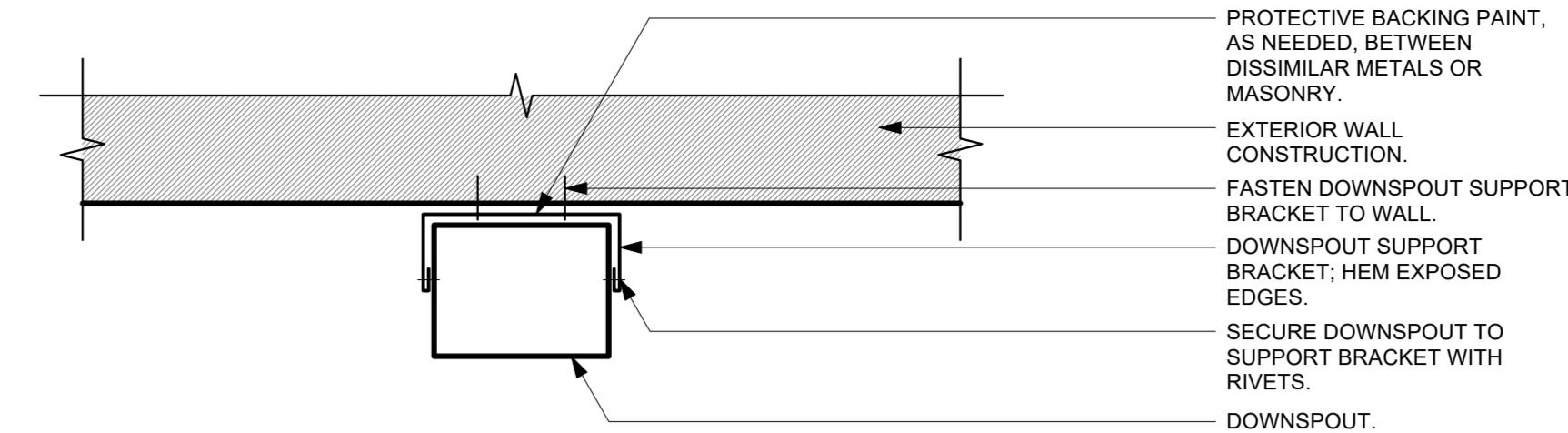
2 Metal Wall Panel to Brick Detail
A5.3 Scale: 3" = 1'-0"



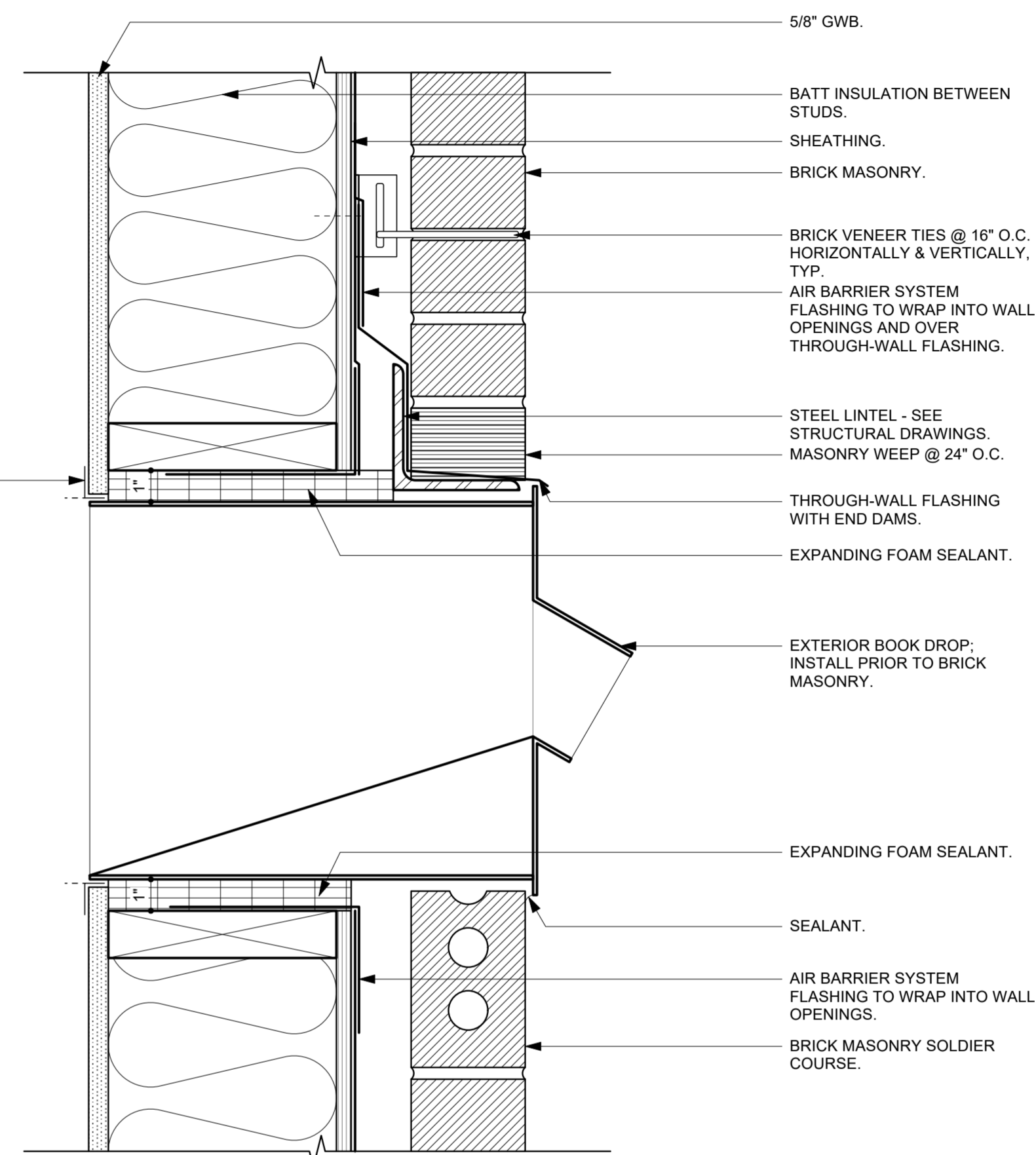
5 Soffit @ Brick Detail
A5.3 Scale: 3" = 1'-0"



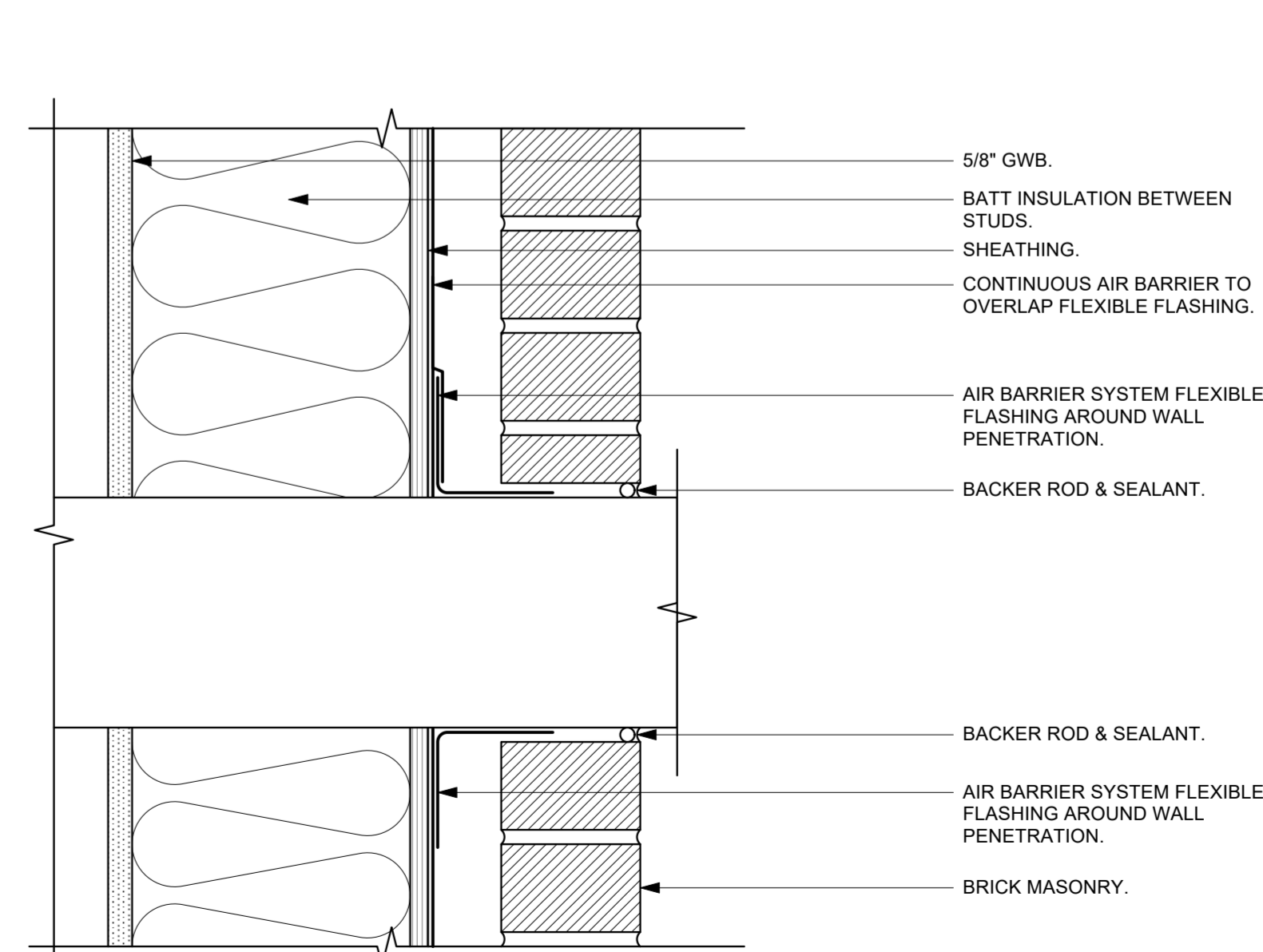
8 Soffit @ Metal Wall Panel Detail
A5.3 Scale: 3" = 1'-0"



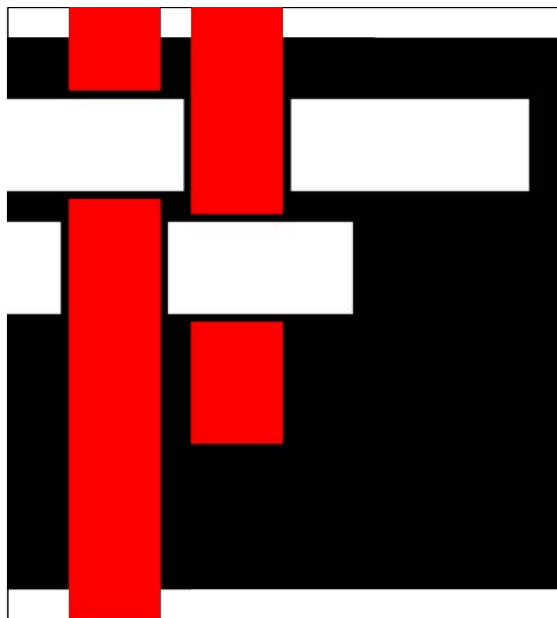
3 Downspout Bracket Detail
A5.3 Scale: 3" = 1'-0"



6 Exterior Book Drop Detail
A5.3 Scale: 3" = 1'-0"



9 Typical Wall Penetration Detail
A5.3 Scale: 3" = 1'-0"



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4401 Hagerwood Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 319-6716
Fax: (919) 319-7516
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CONSULTING ENGINEERS
3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
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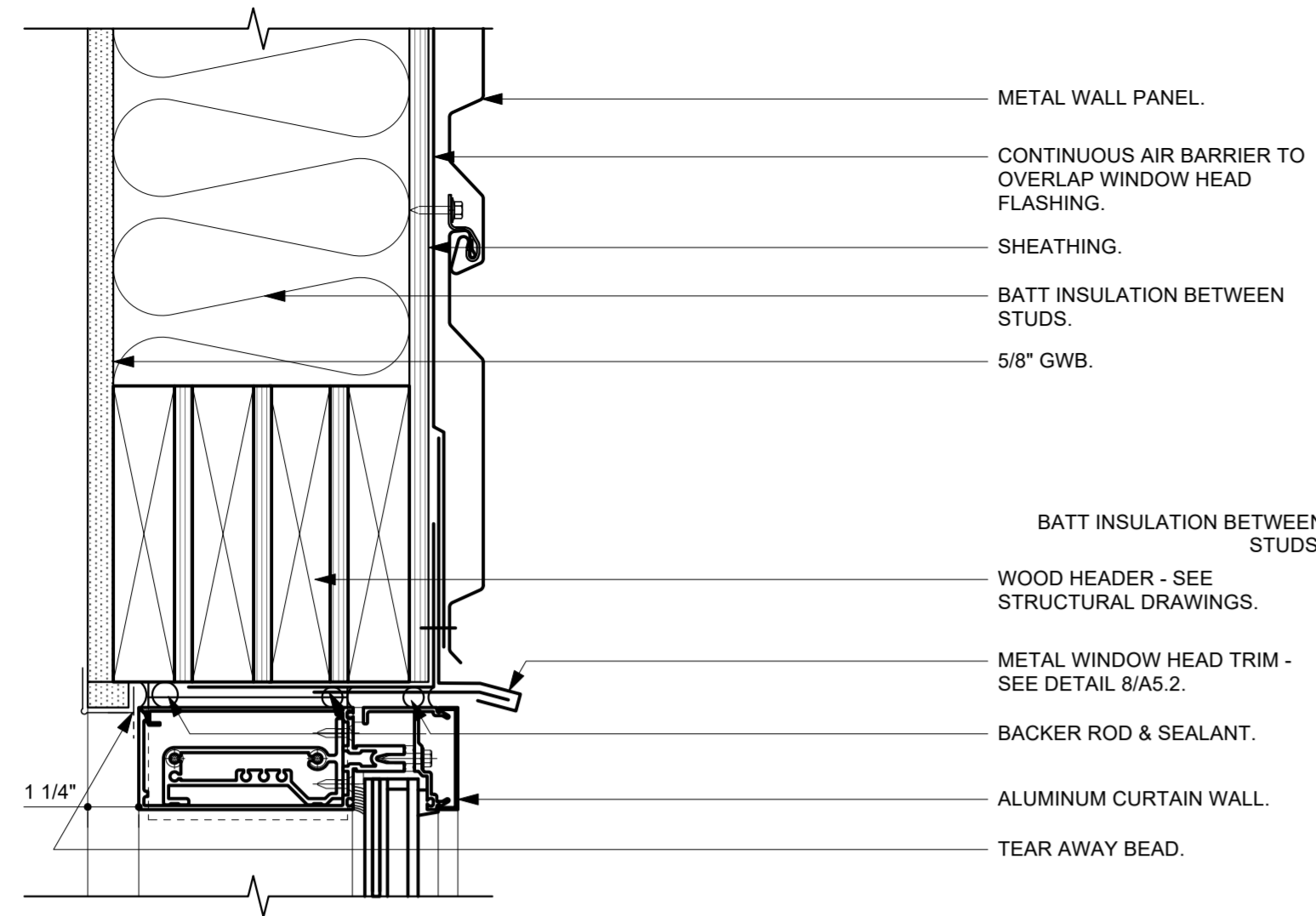
Construction Drawings

Issue Date: October 6, 2025

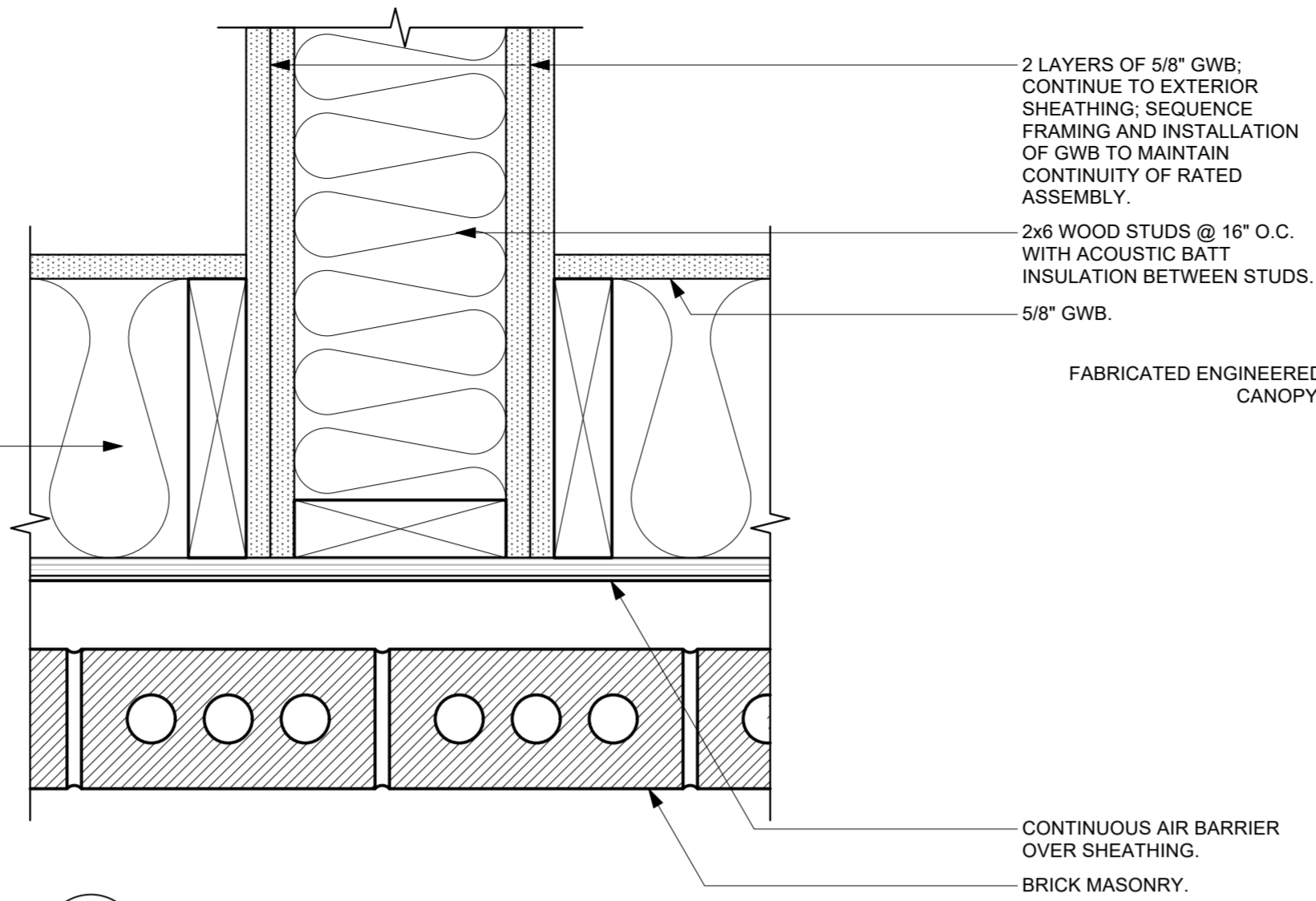
Exterior Details

Rev.	Date	Notes

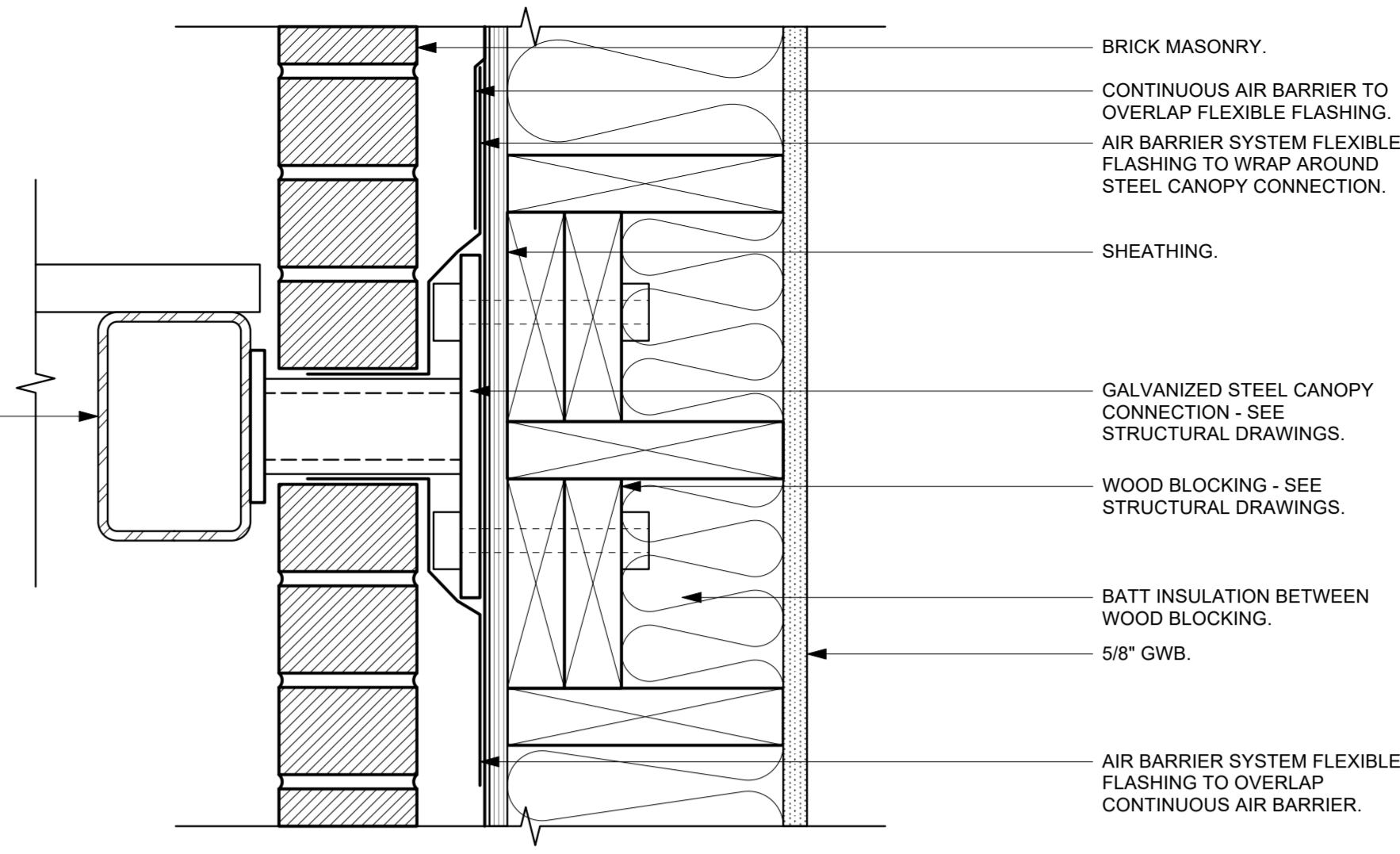
A5.3



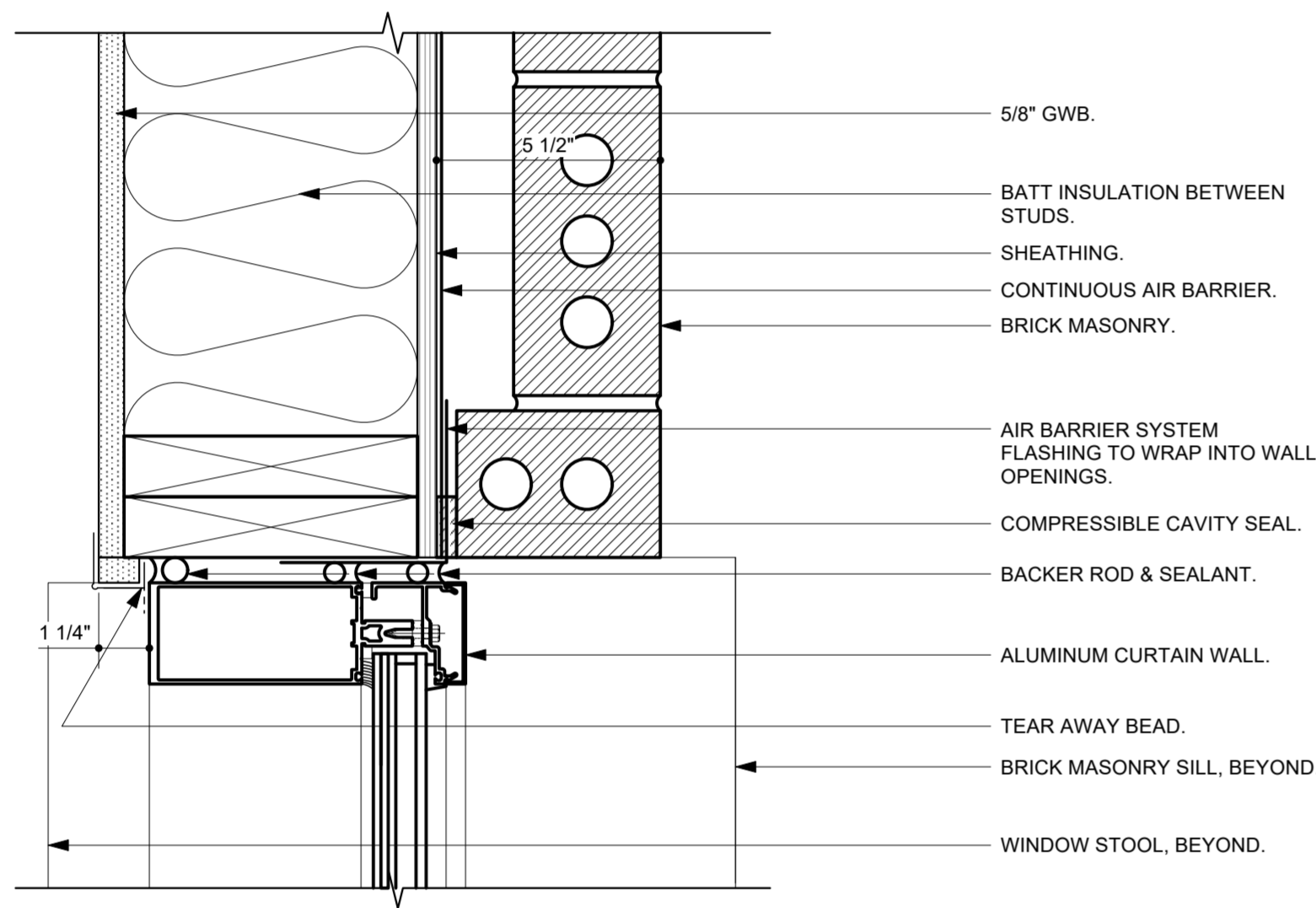
1
A5.4
Curtain Wall Head @ Window K Detail
Scale: 3" = 1'-0"



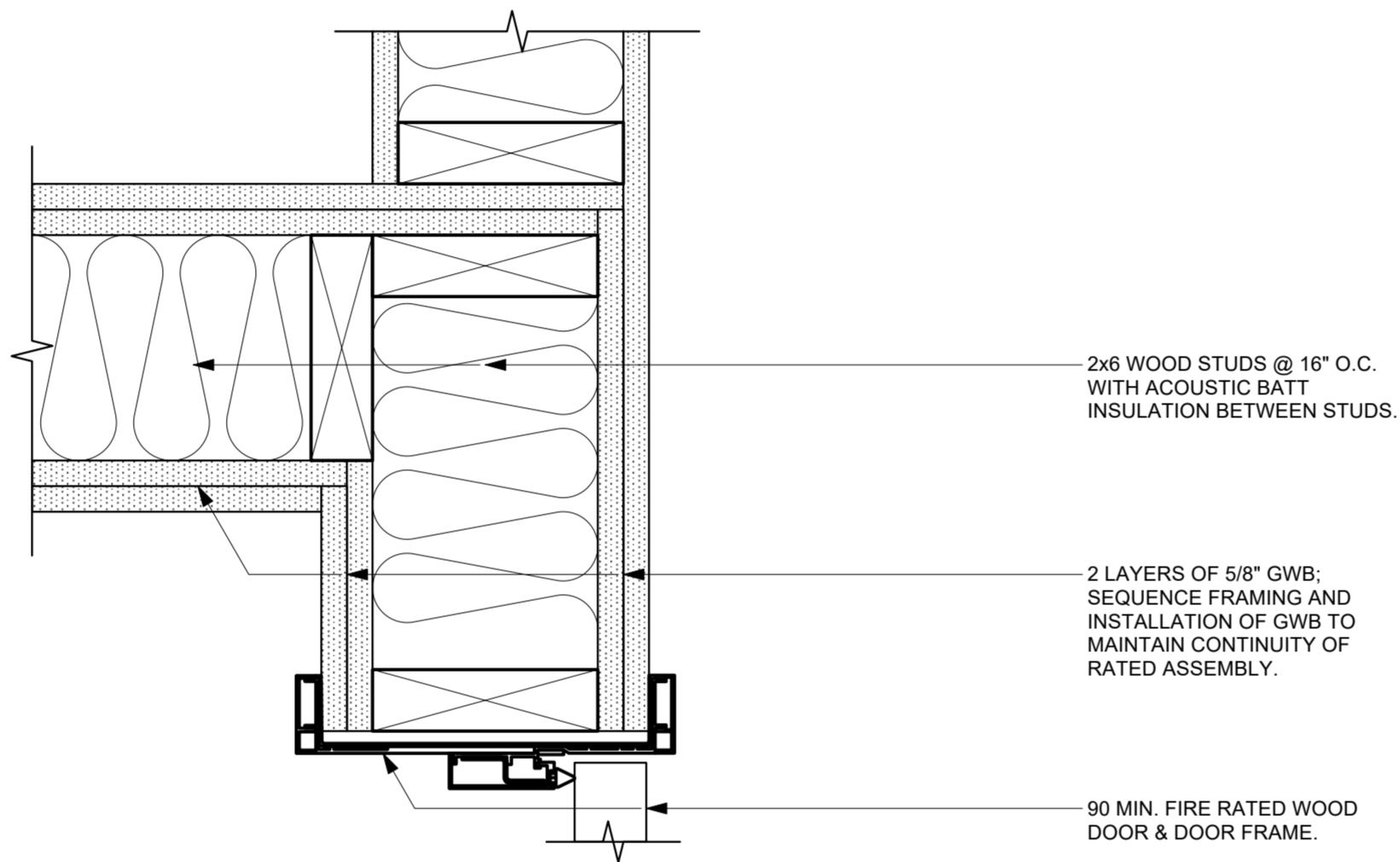
2
A5.4
2-HR Fire Rated Wall @ Exterior Wall Detail
Scale: 3" = 1'-0"
SEE RATED WALL ASSEMBLY DETAIL 1/G2.0



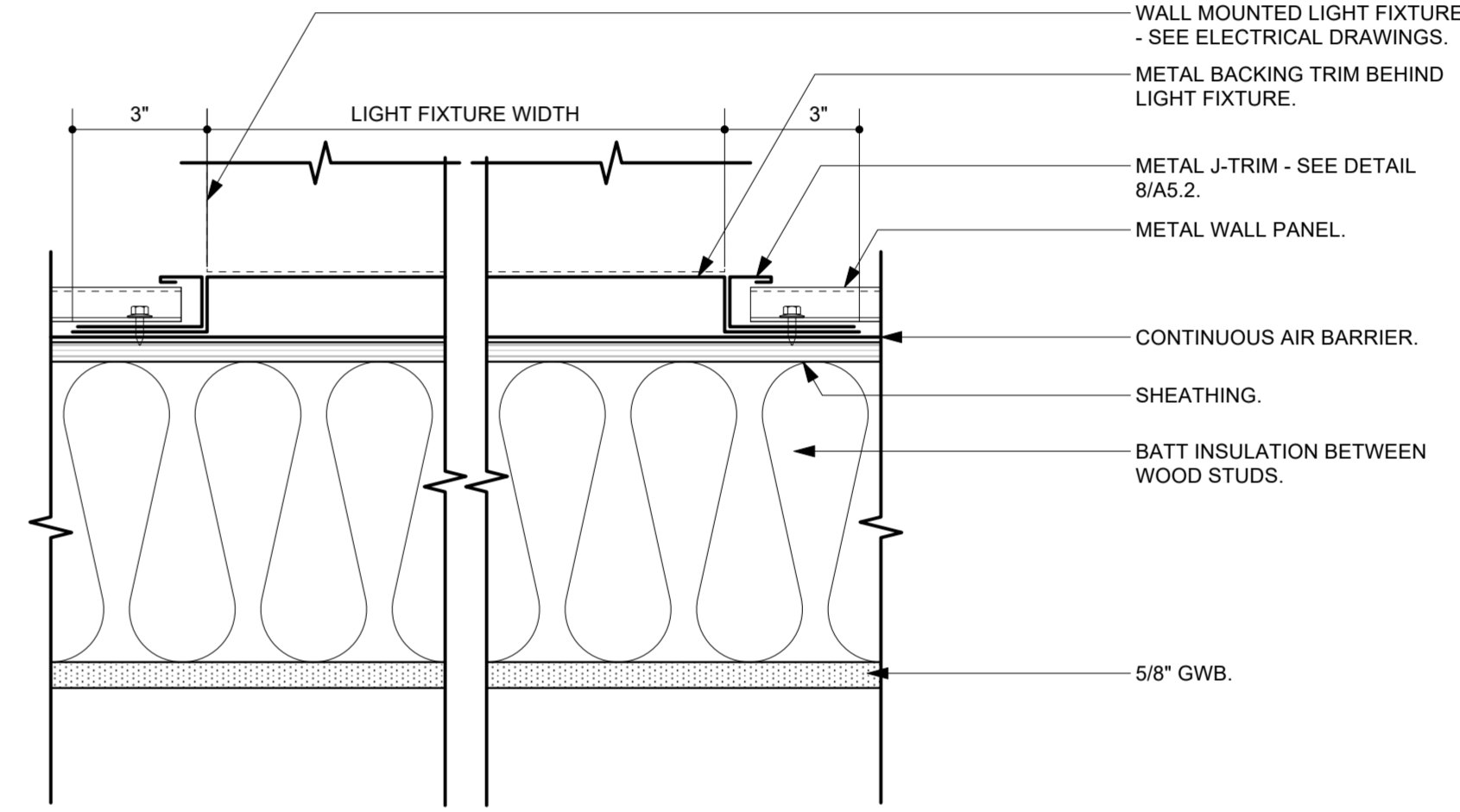
3
A5.4
Canopy Connection Detail
Scale: 3" = 1'-0"



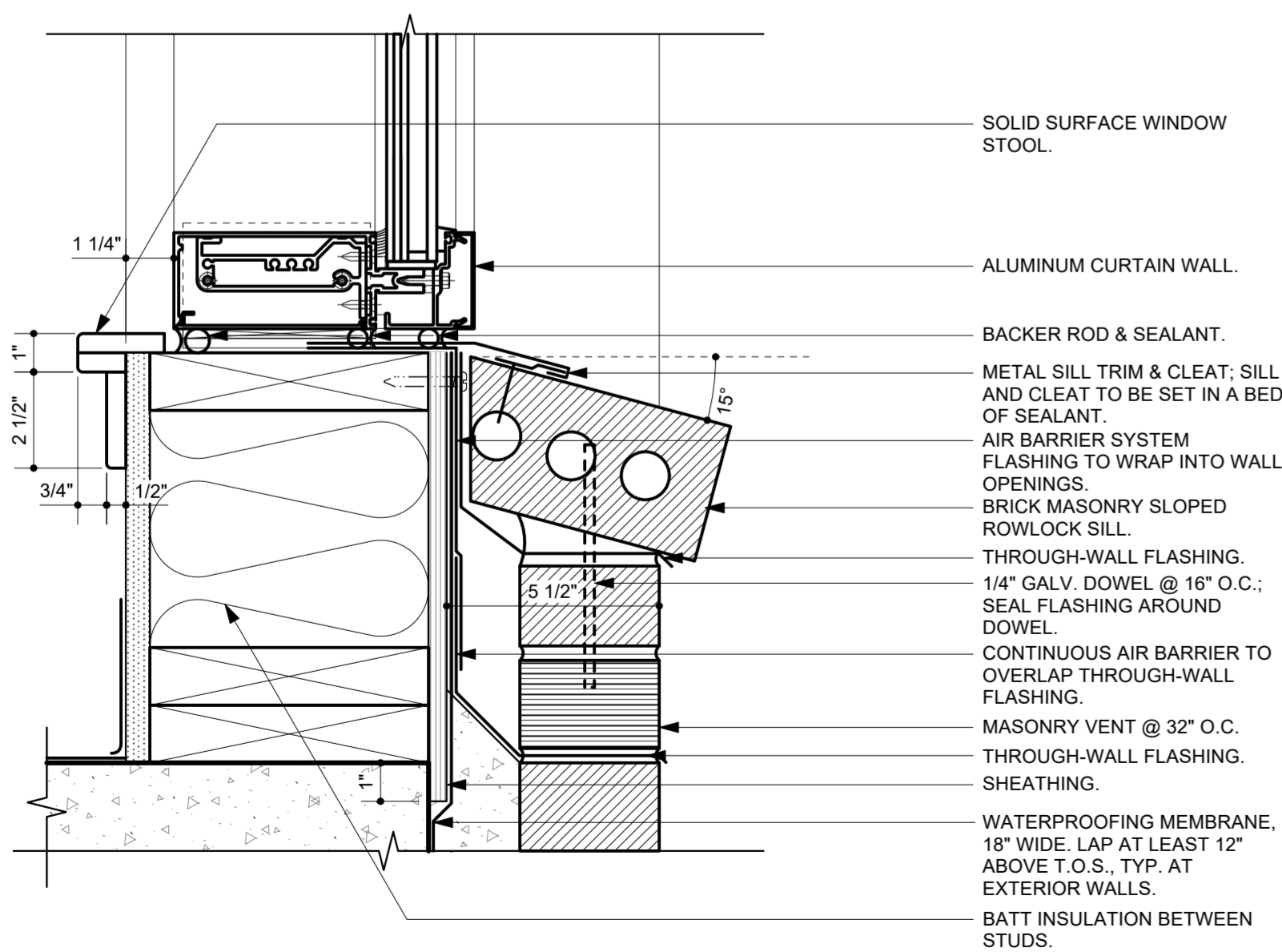
4
A5.4
Curtain Wall Jamb @ Window K Brick Detail
Scale: 3" = 1'-0"



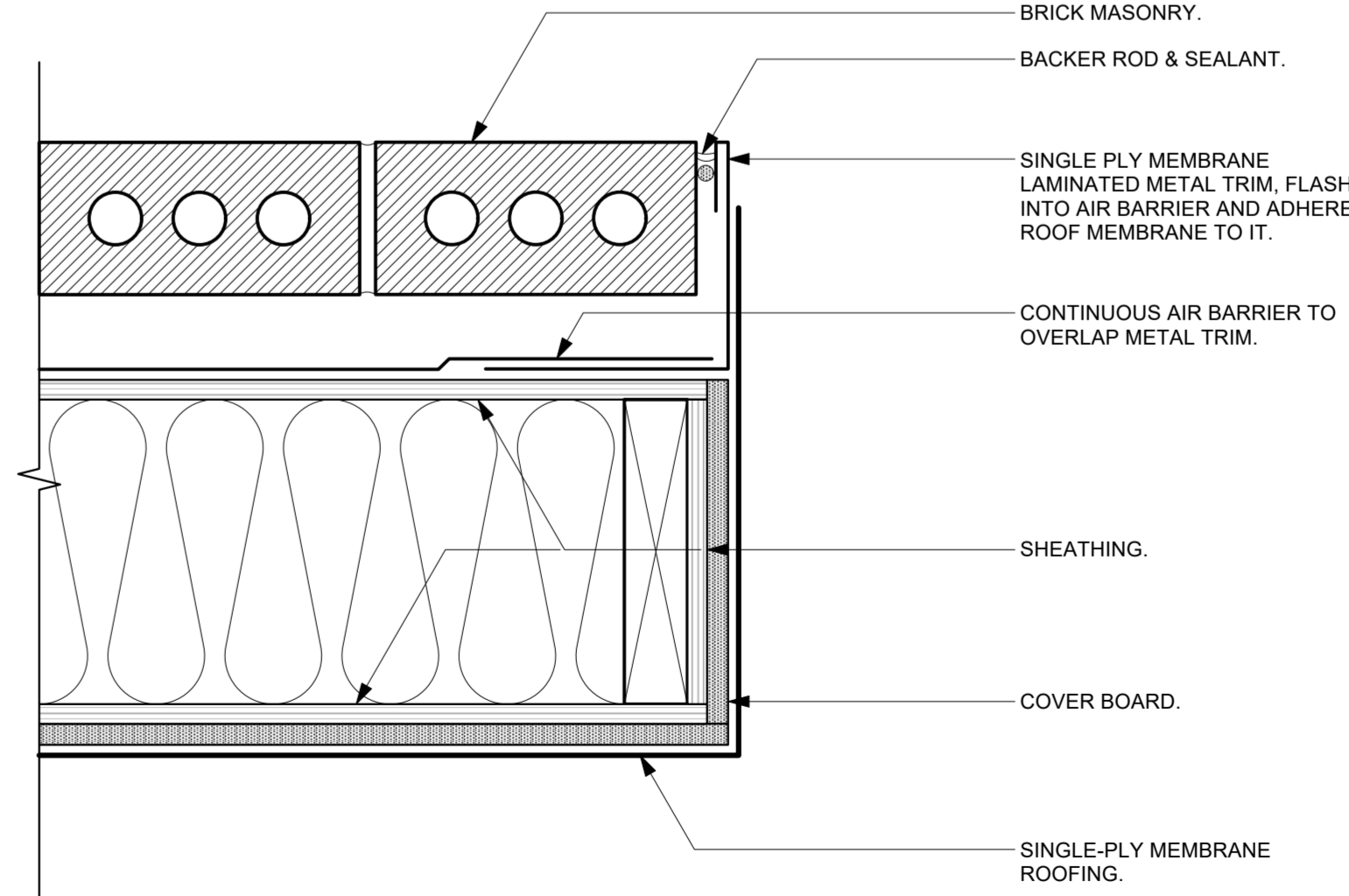
5
A5.4
2-HR Fire Rated Wall Detail
Scale: 3" = 1'-0"
SEE RATED WALL ASSEMBLY DETAIL 1/G2.0



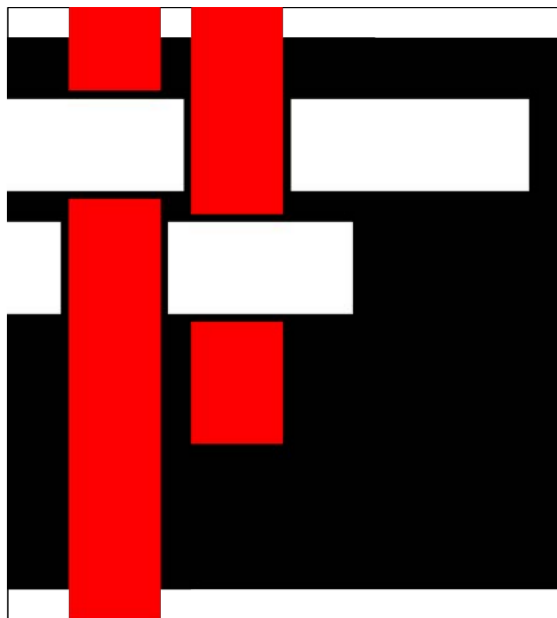
6
A5.4
Exterior Wall Light @ Metal Wall Panel
Scale: 3" = 1'-0"



7
A5.4
Curtain Wall Sill @ Window K Detail
Scale: 3" = 1'-0"



9
A5.4
Parapet to Roof Jamb Detail
Scale: 3" = 1'-0"



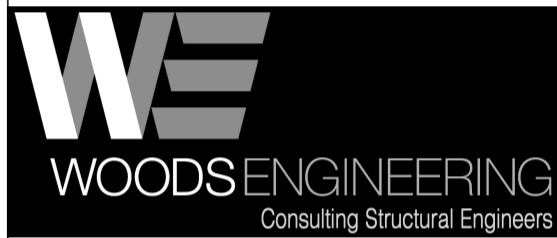
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Cary, North Carolina 27518
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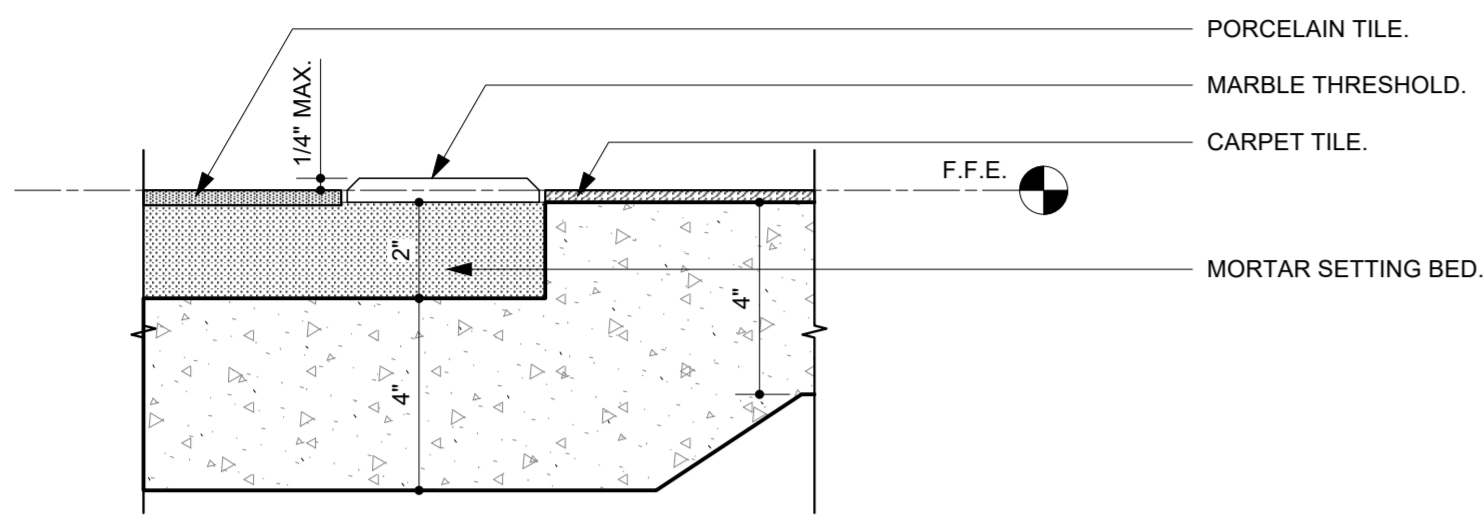
Construction Drawings

Issue Date: October 6, 2025

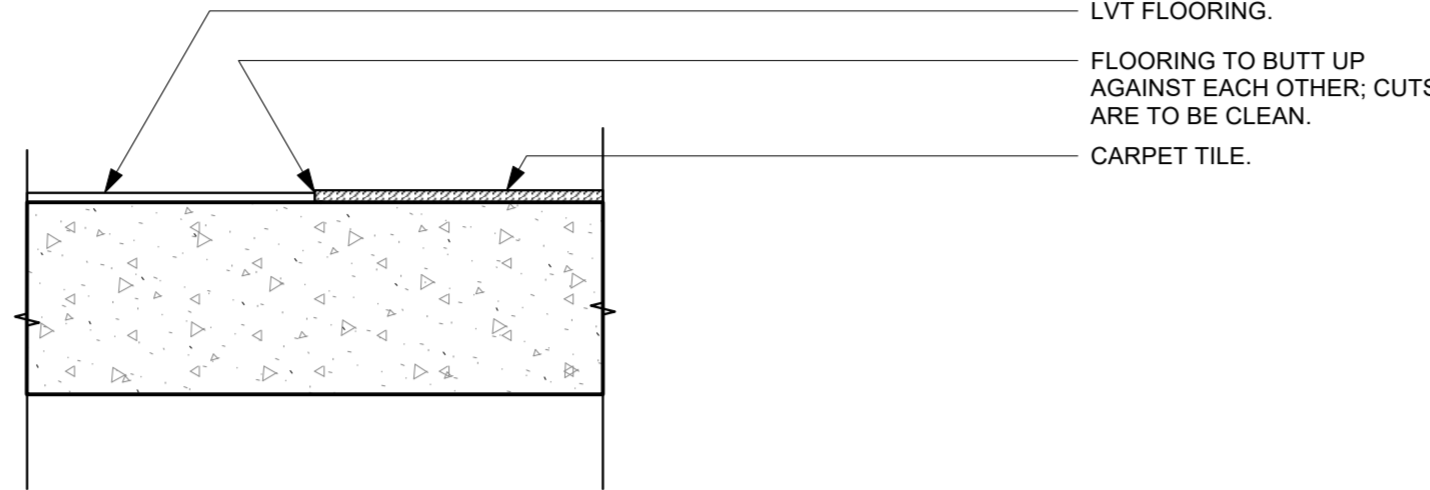
**Exterior & Interior
Details**

Rev.	Date	Notes

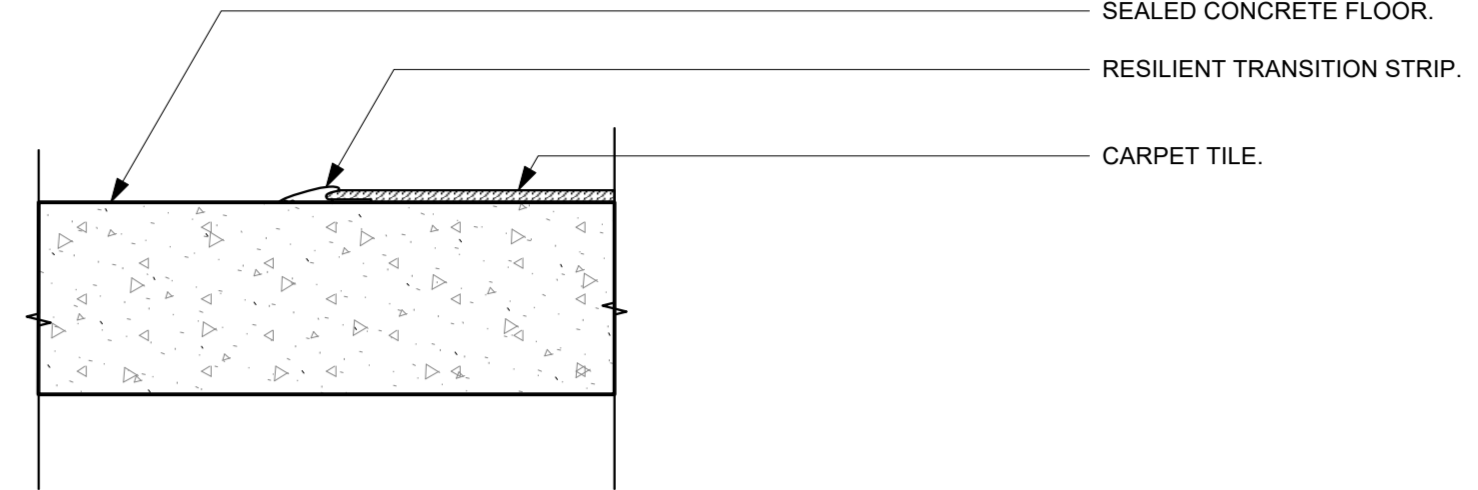
A5.4



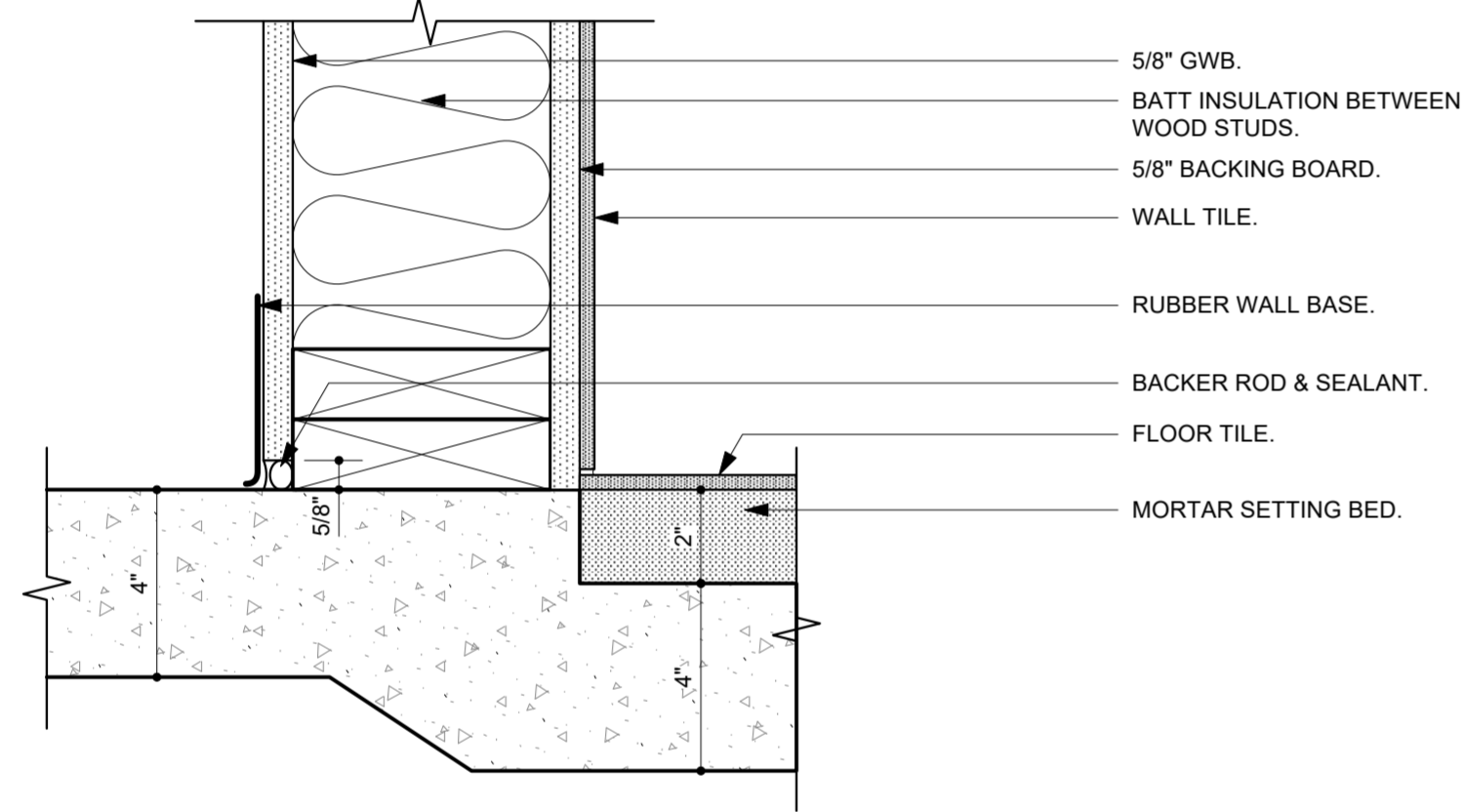
1 Porcelain Tile Flooring to Carpet Tile Flooring Detail
A5.5 Scale: 3" = 1'-0"



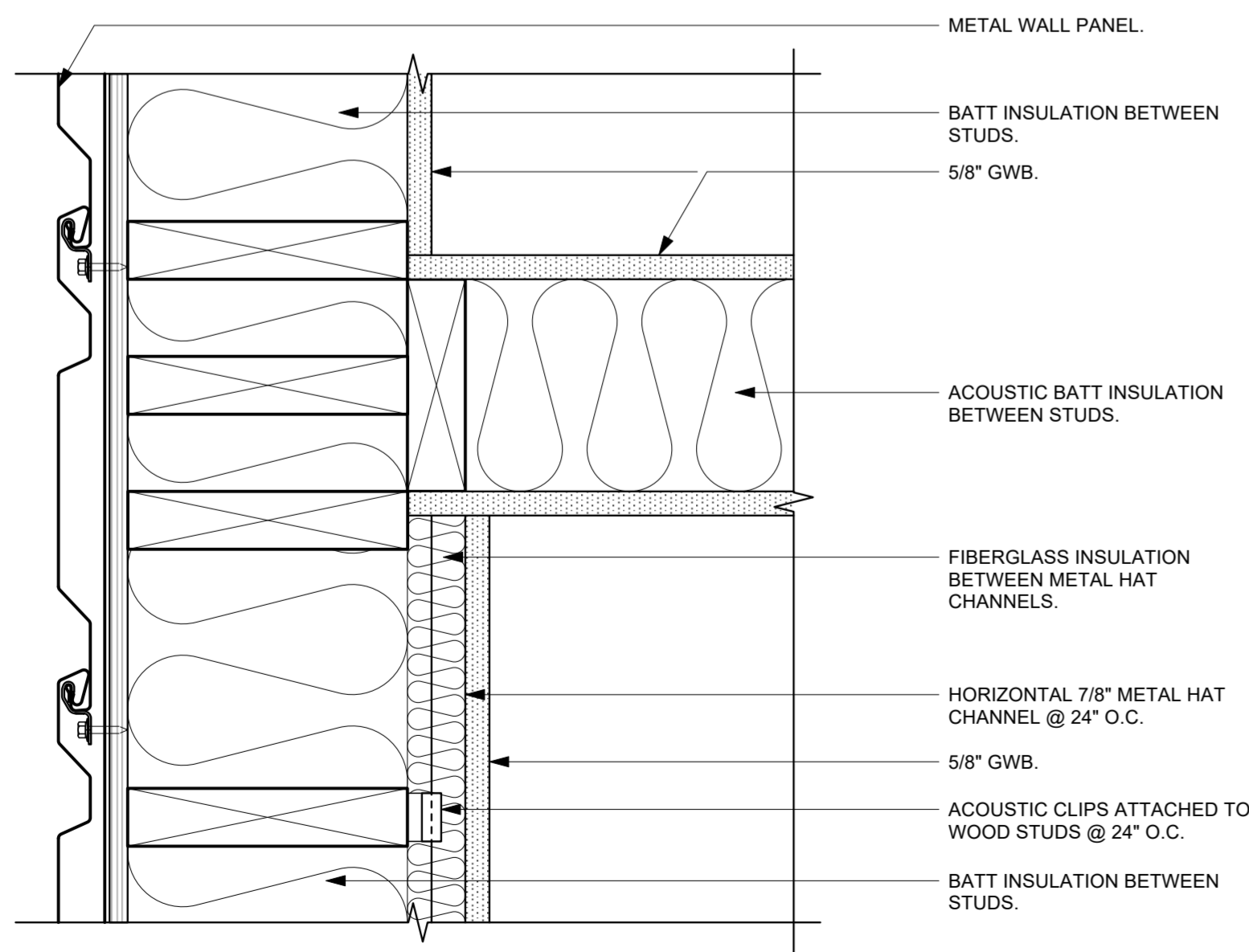
2 LVT Flooring to Carpet Tile Flooring Detail
A5.5 Scale: 3" = 1'-0"



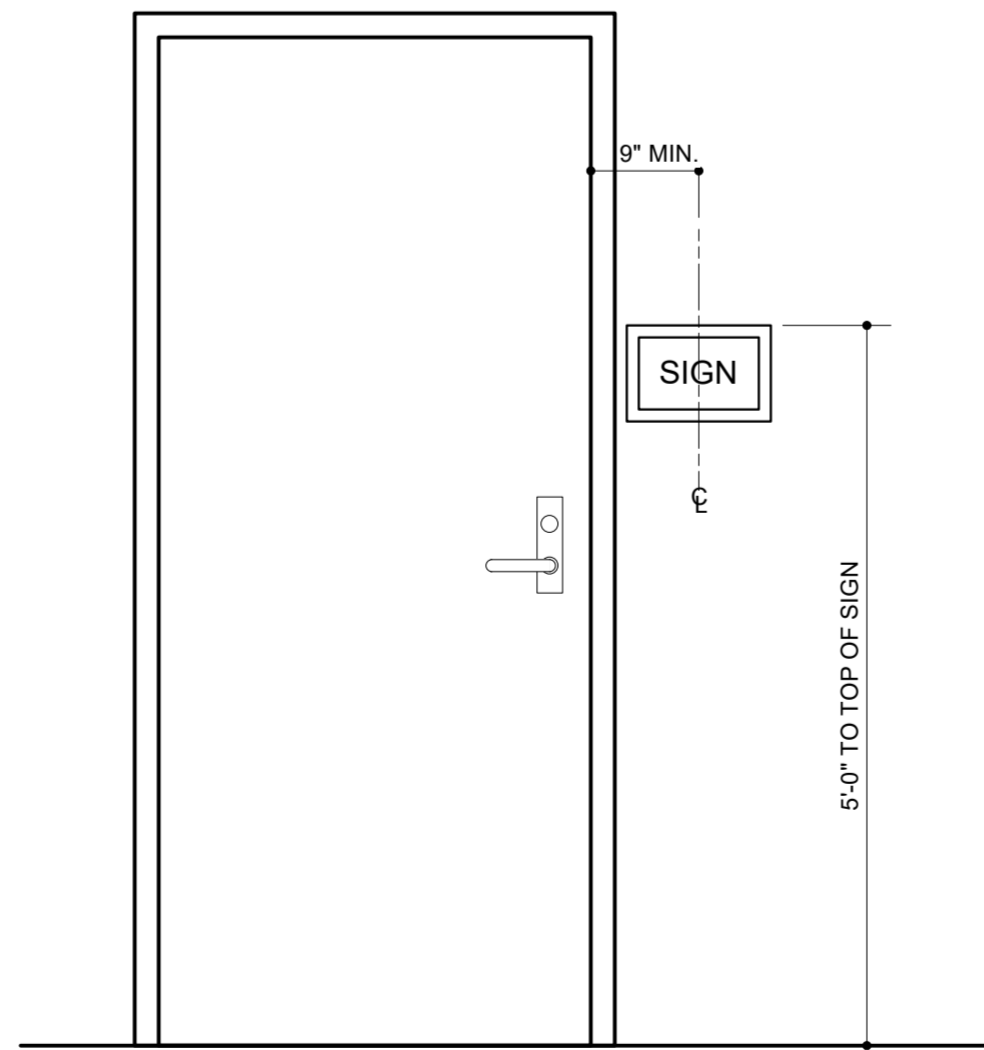
3 Sealed Concrete Flooring to Carpet Tile Flooring Detail
A5.5 Scale: 3" = 1'-0"



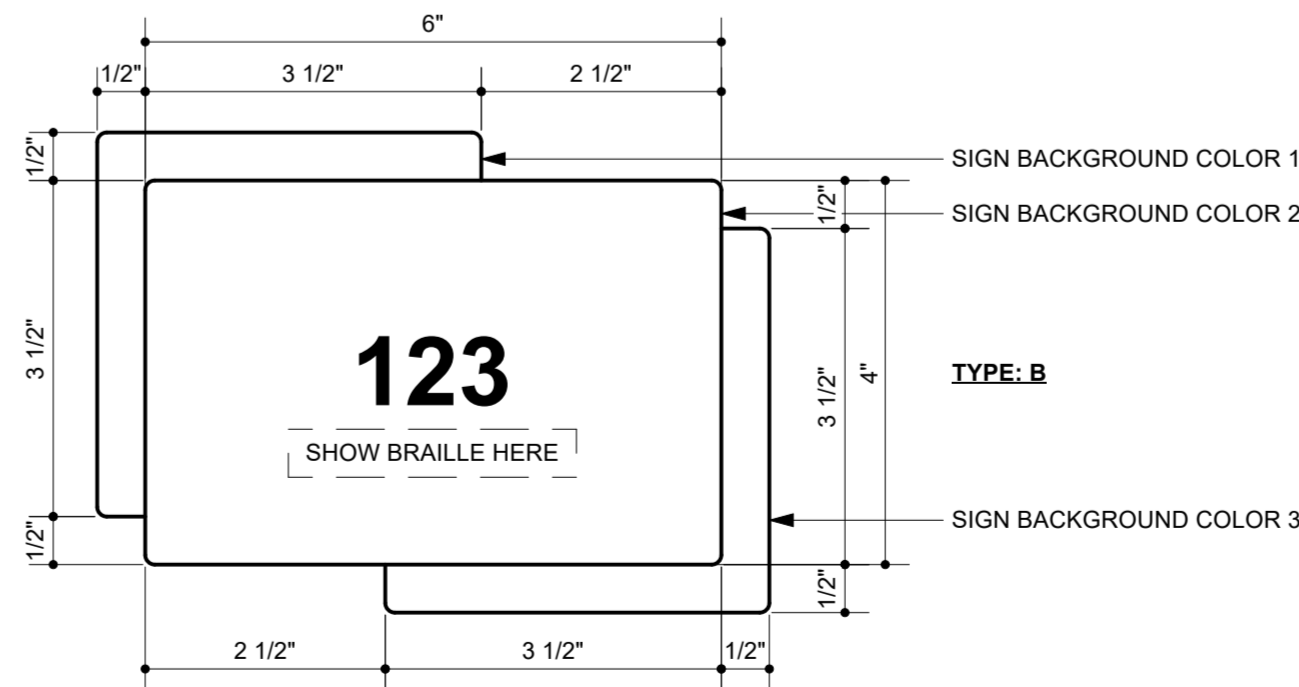
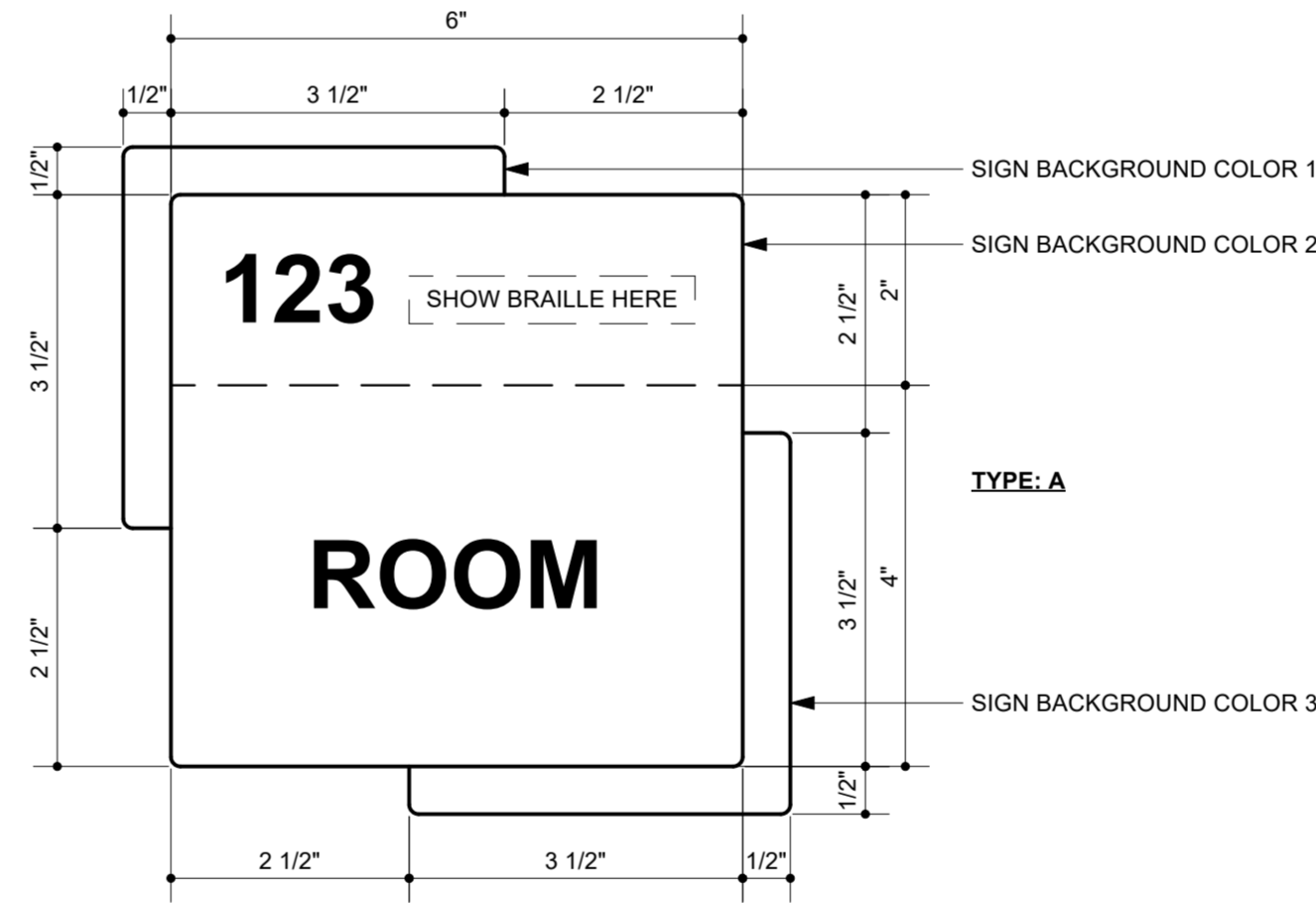
4 Riser Room Wall Base Detail
A5.5 Scale: 3" = 1'-0"



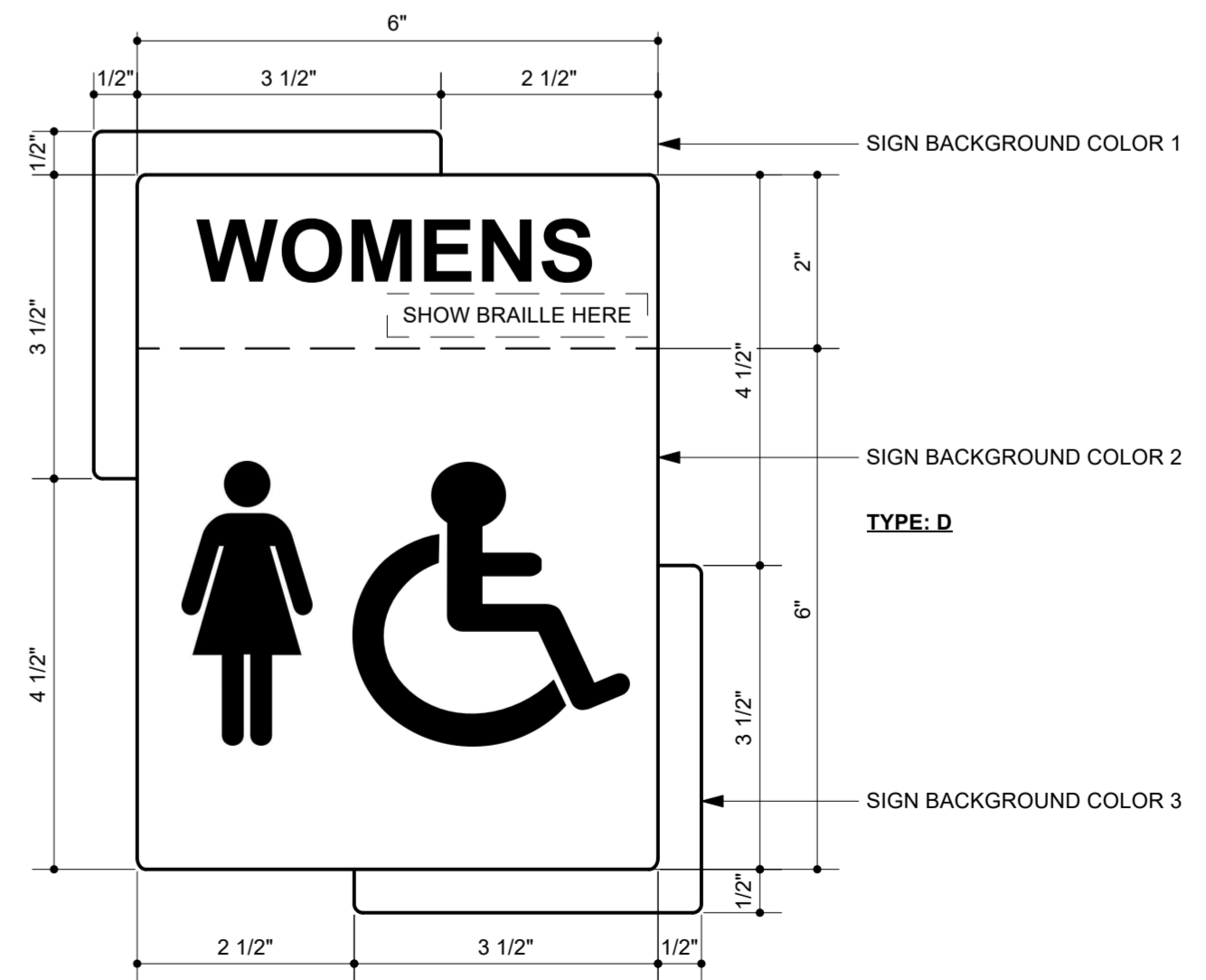
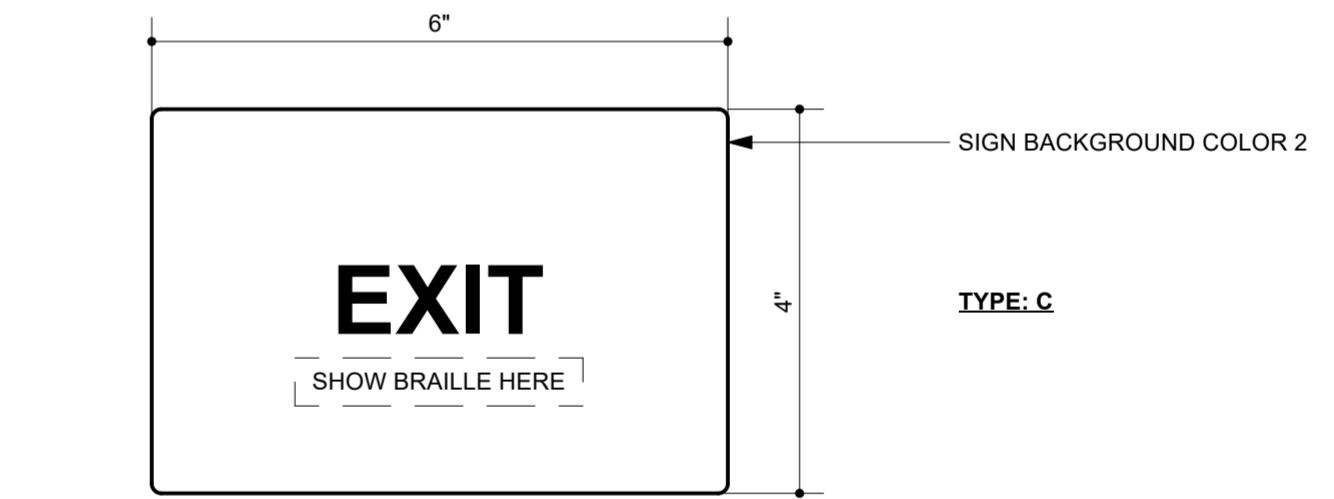
7 Acoustic Wall Detail
A5.5 Scale: 3" = 1'-0"



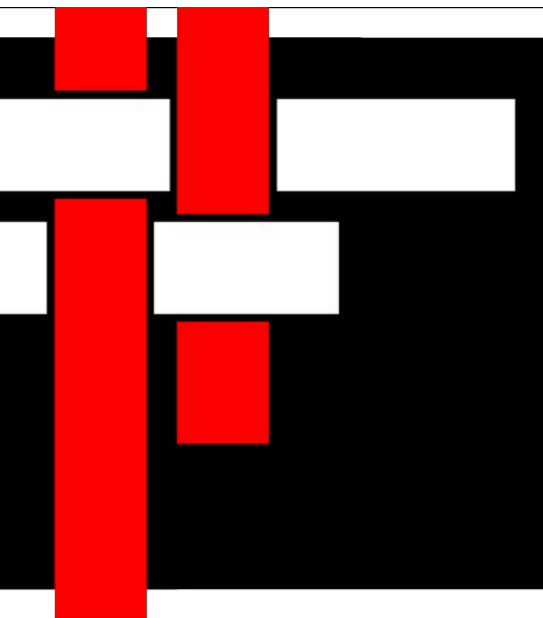
8 Signage Mounting Detail
A5.5 Scale: 3/4" = 1'-0"



9 Signage Details
A5.5 Scale: Half Actual Size



NOTE: WOMENS RESTROOM SIGNAGE SHOWN AS AN EXAMPLE. PROVIDE APPROPRIATE SYMBOLS TO MATCH RESTROOM AS INDICATED ON DOOR SCHEDULE.



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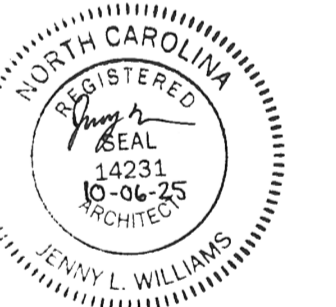
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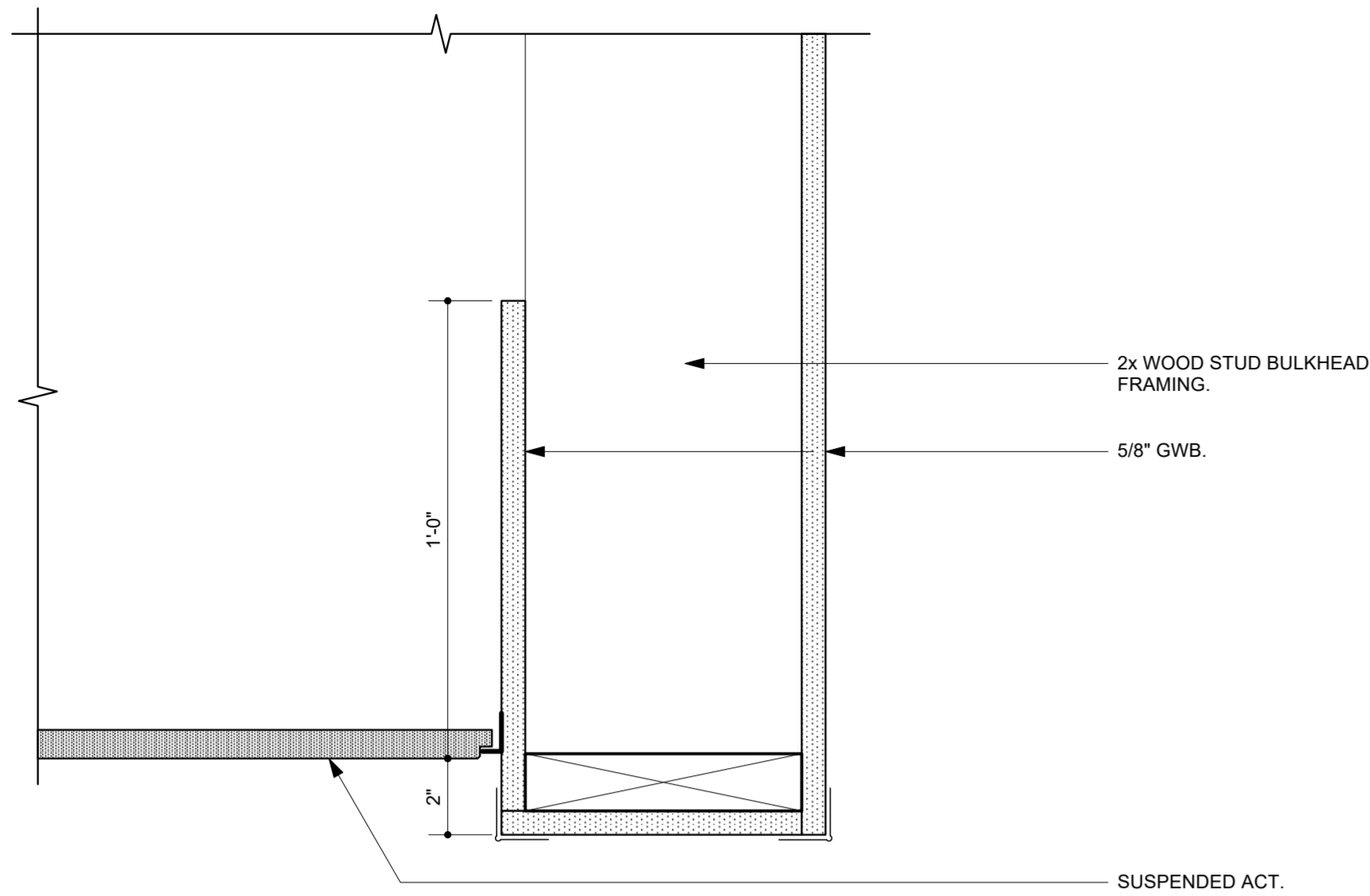
Construction Drawings

Issue Date: October 6, 2025

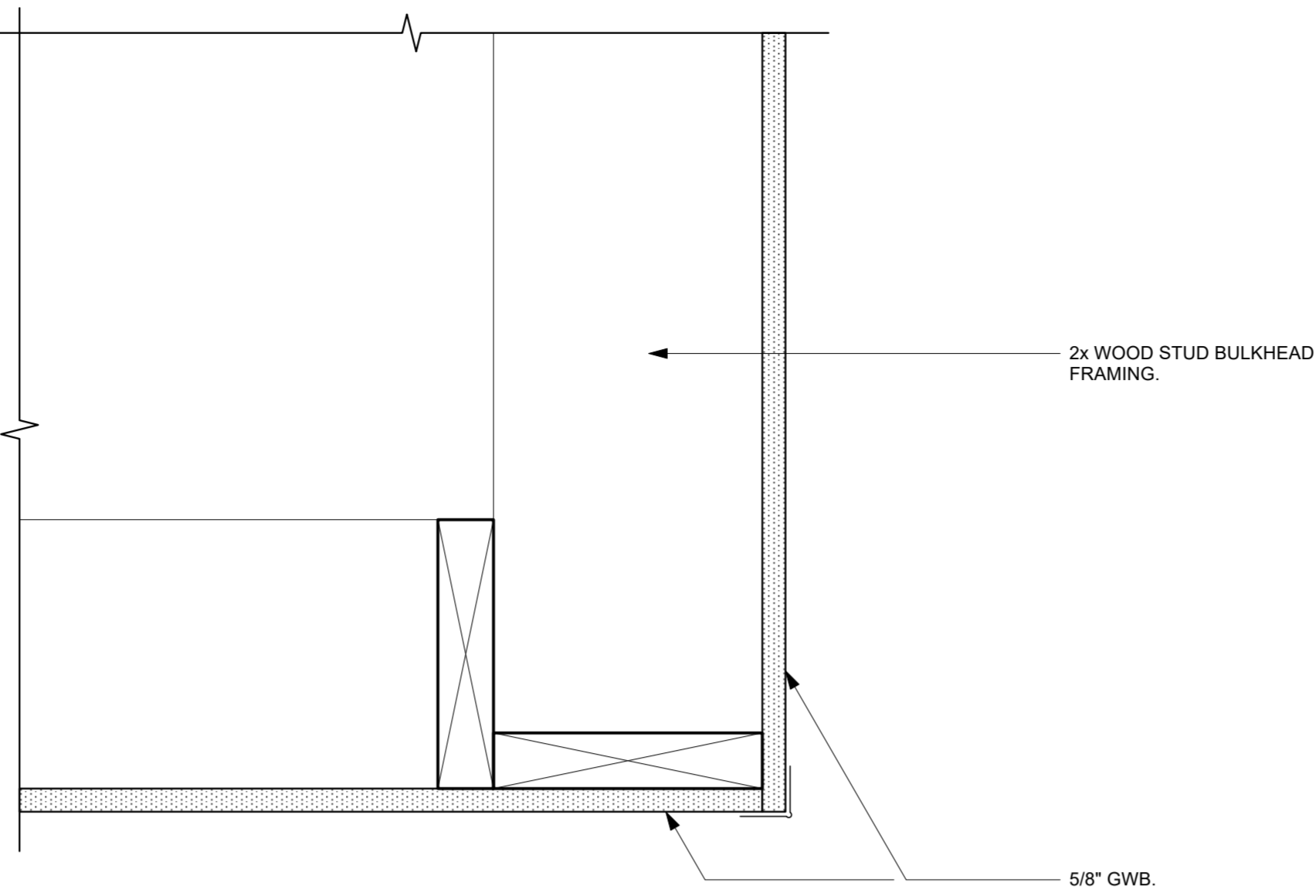
Interior Details

Rev.	Date	Notes

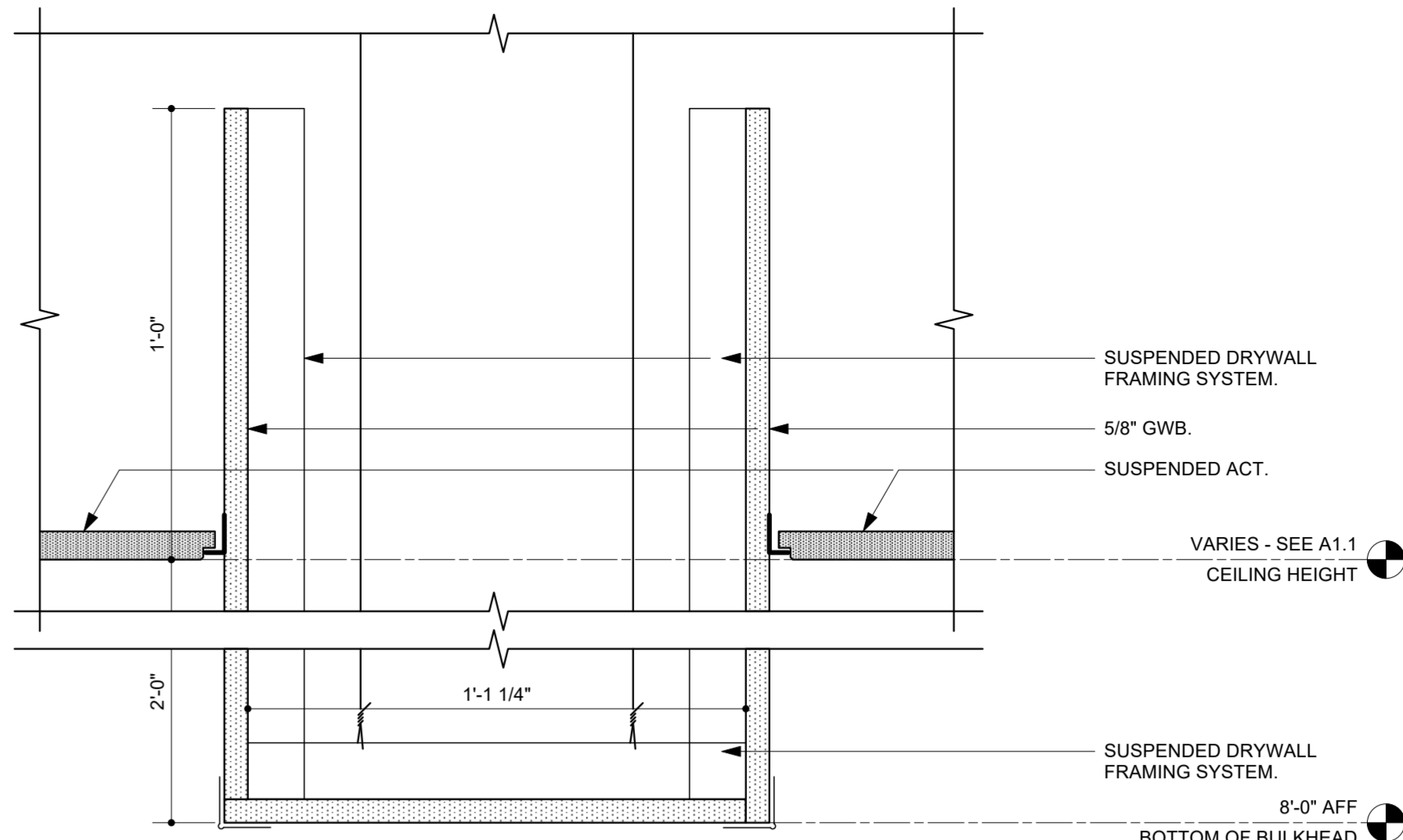
A5.5



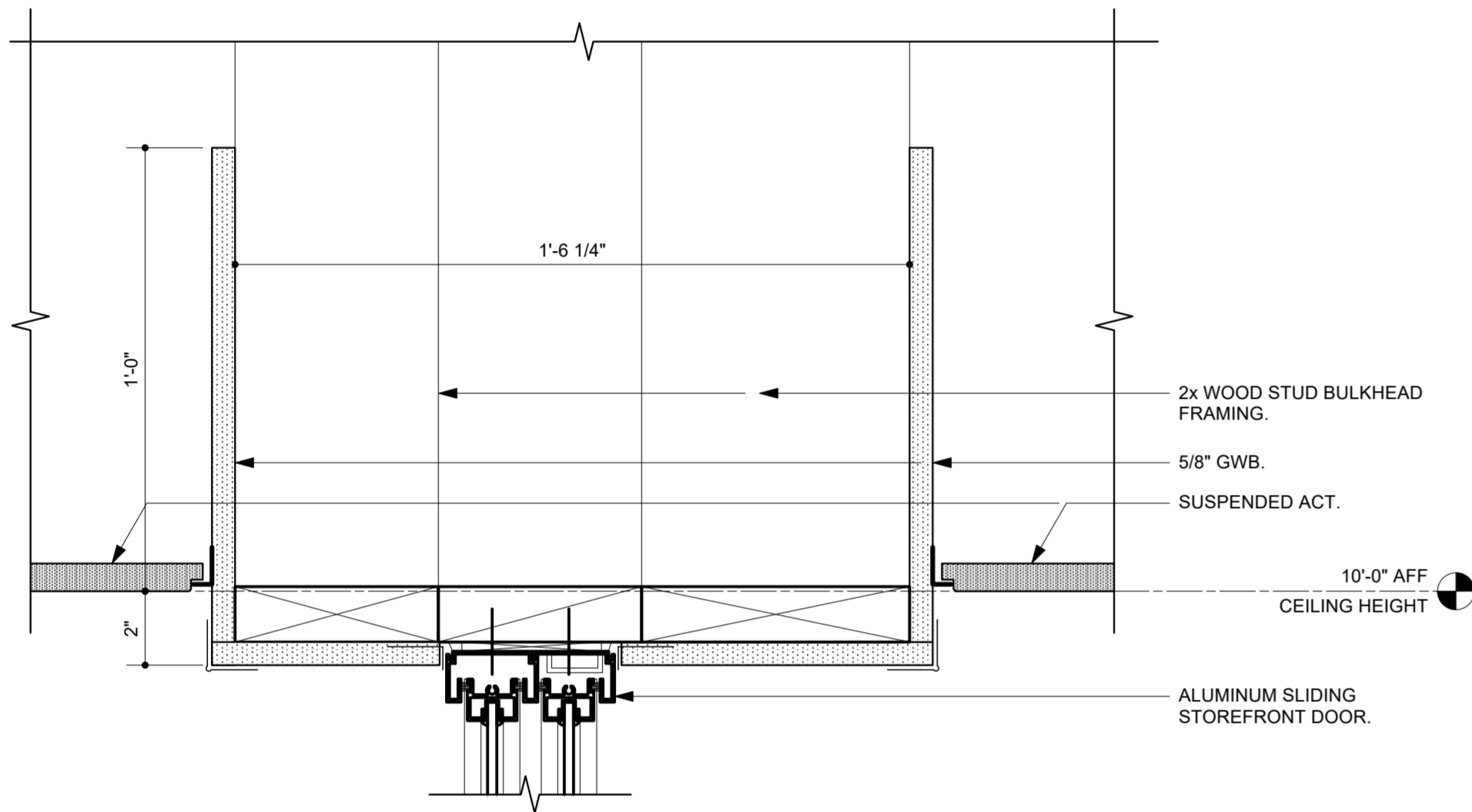
1 ACT to Open Structure Ceiling Detail
A5.6 Scale: 3" = 1'-0"



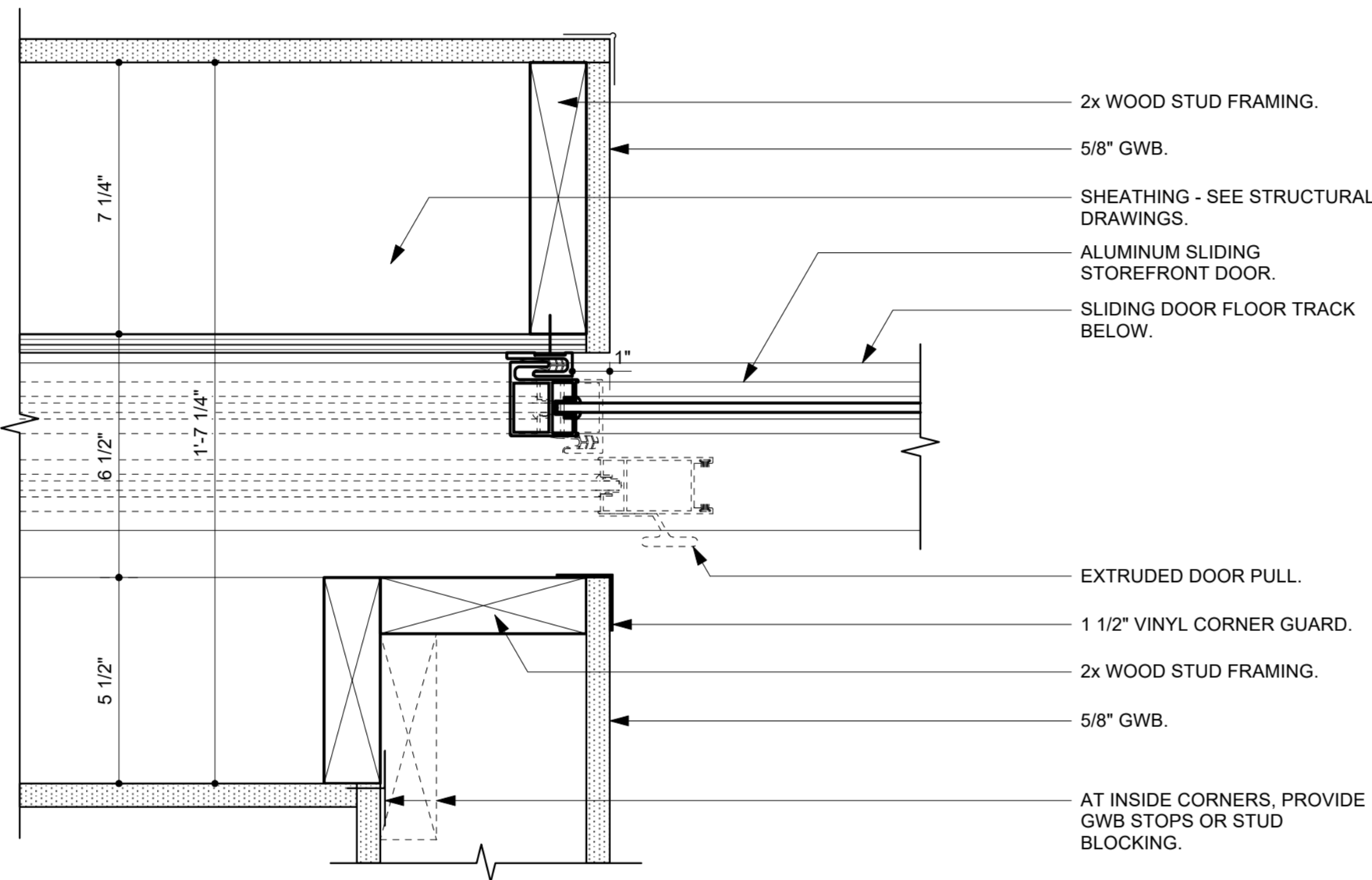
2 GWB to Open Structure Ceiling Detail
A5.6 Scale: 3" = 1'-0"



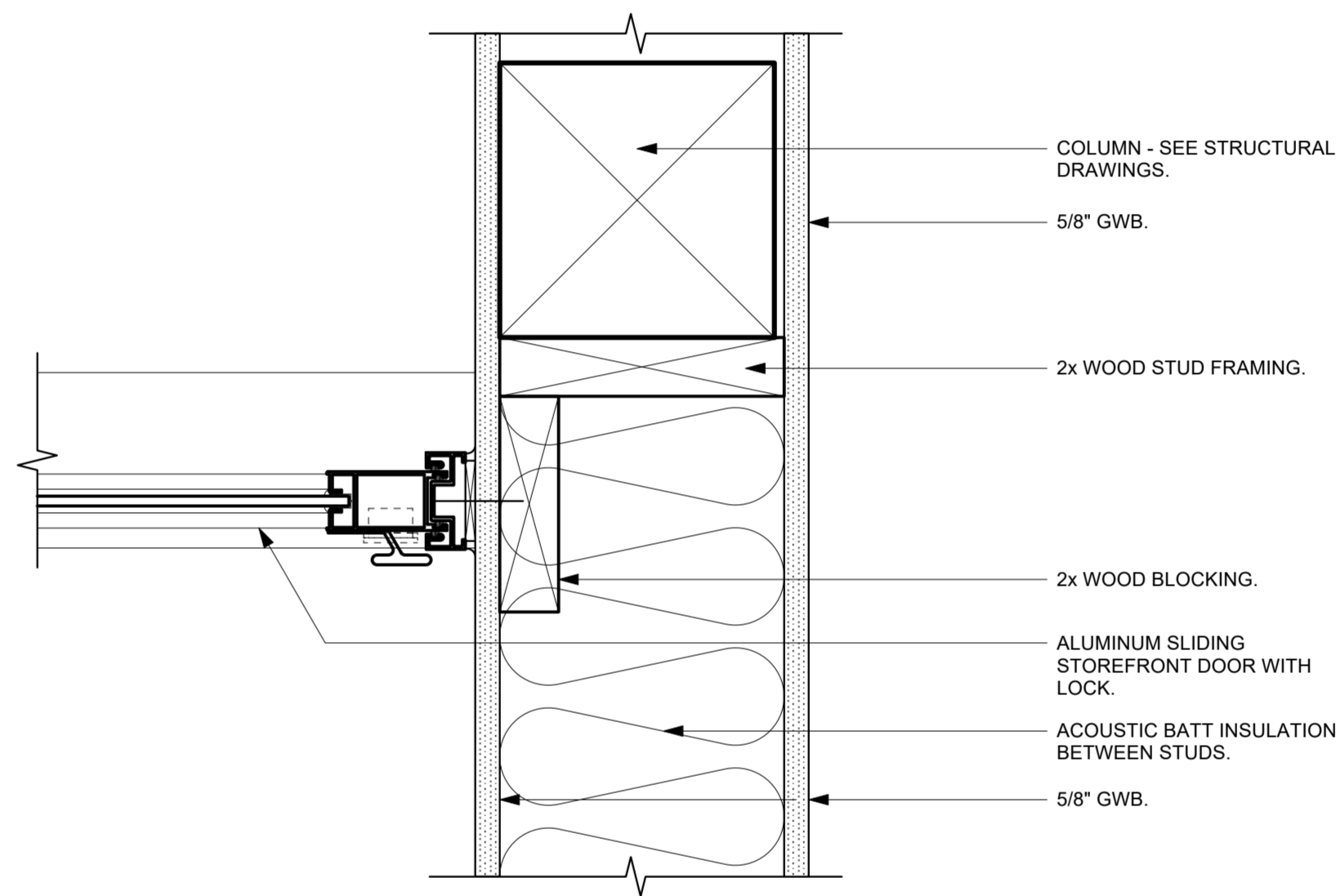
3 Bulkhead Detail
A5.6 Scale: 3" = 1'-0"



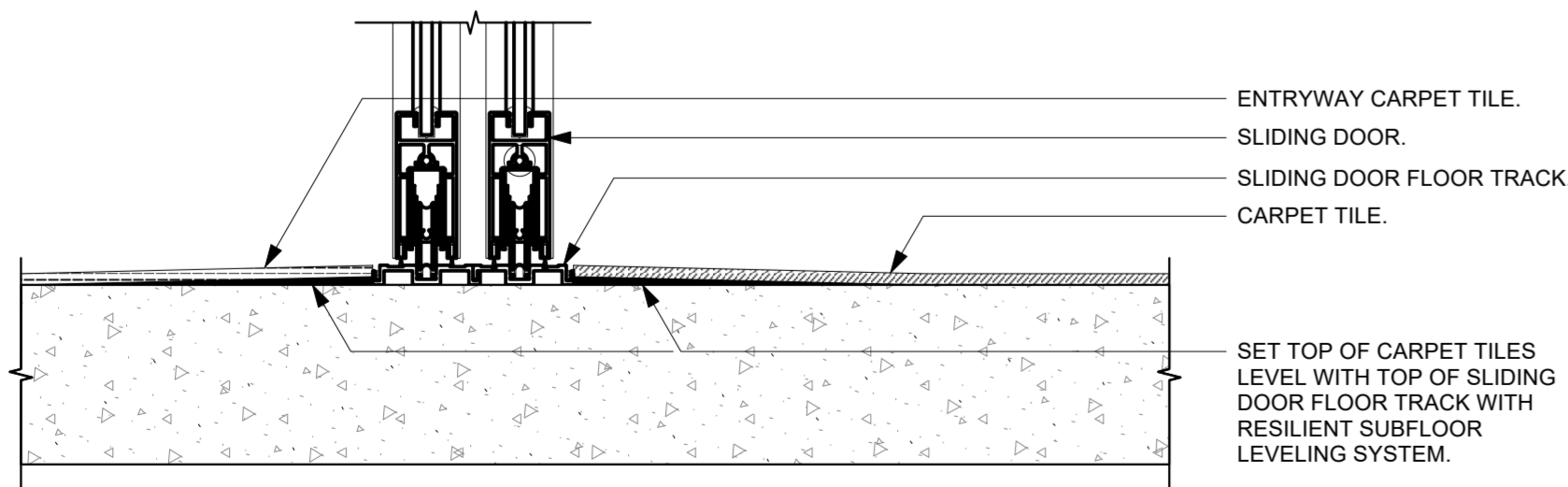
4 Sliding Door Head Detail
A5.6 Scale: 3" = 1'-0"



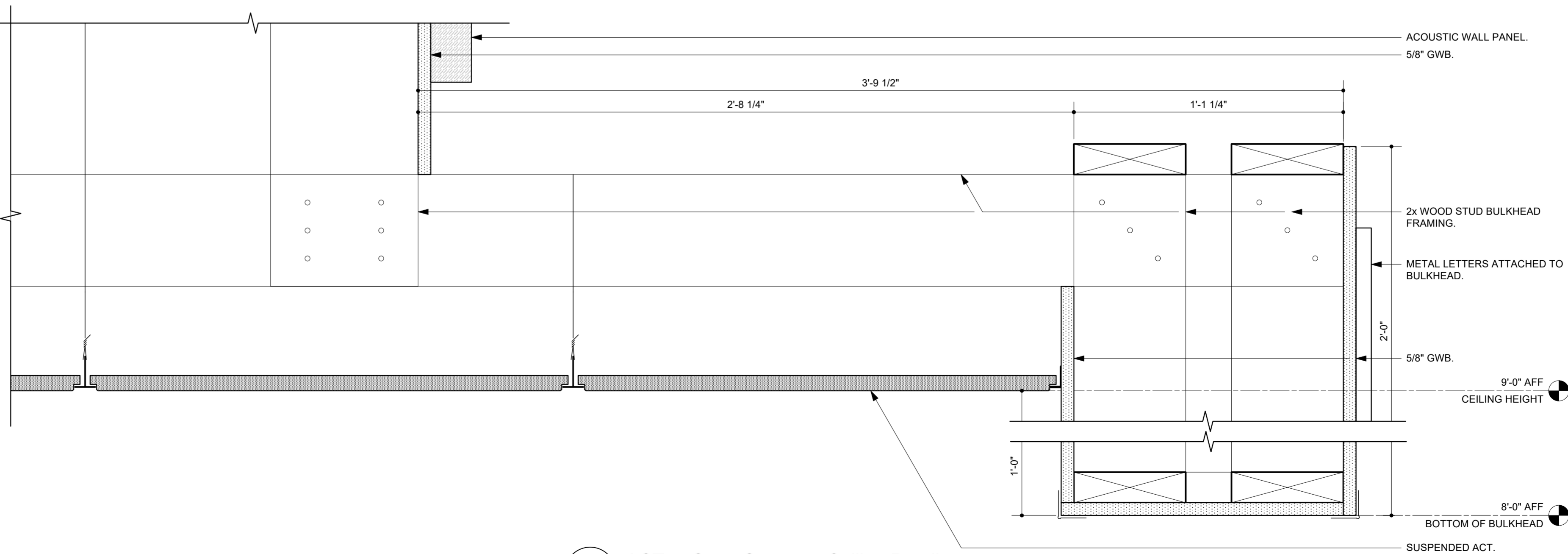
5 Sliding Door Jamb @ Pocket Detail
A5.6 Scale: 3" = 1'-0"



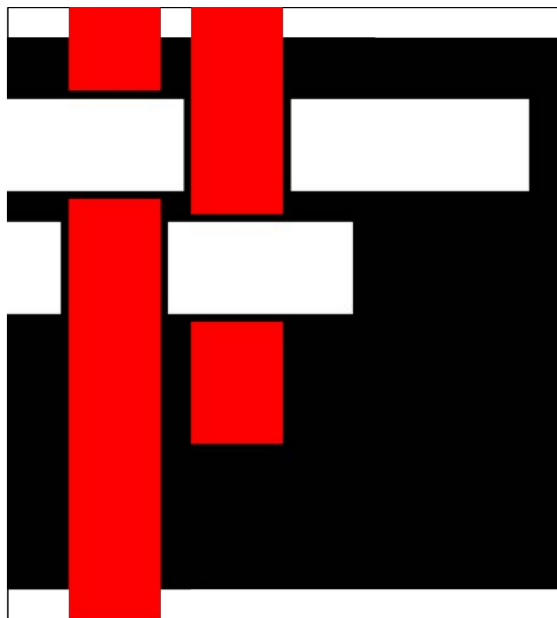
6 Sliding Door Jamb @ Lock Detail
A5.6 Scale: 3" = 1'-0"



7 Floor Transition at Sliding Door Detail
A5.6 Scale: 3" = 1'-0"



8 ACT to Open Structure Ceiling Detail
A5.6 Scale: 3" = 1'-0"



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Interior Details

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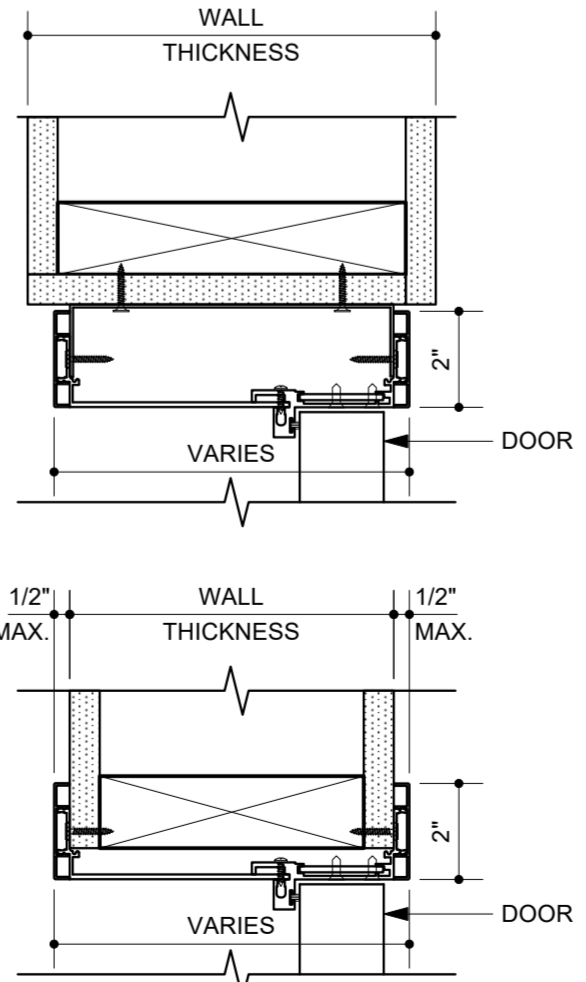
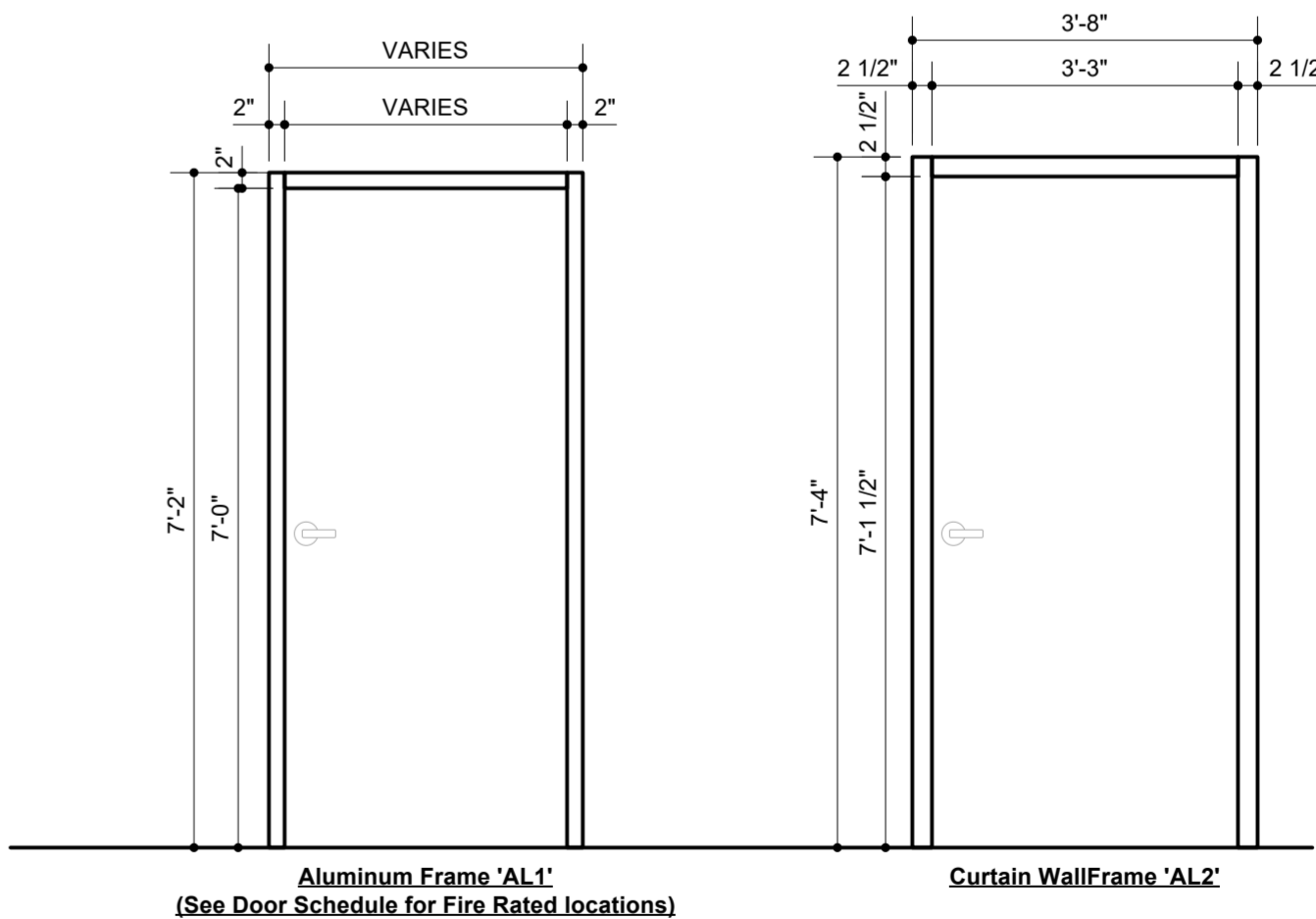
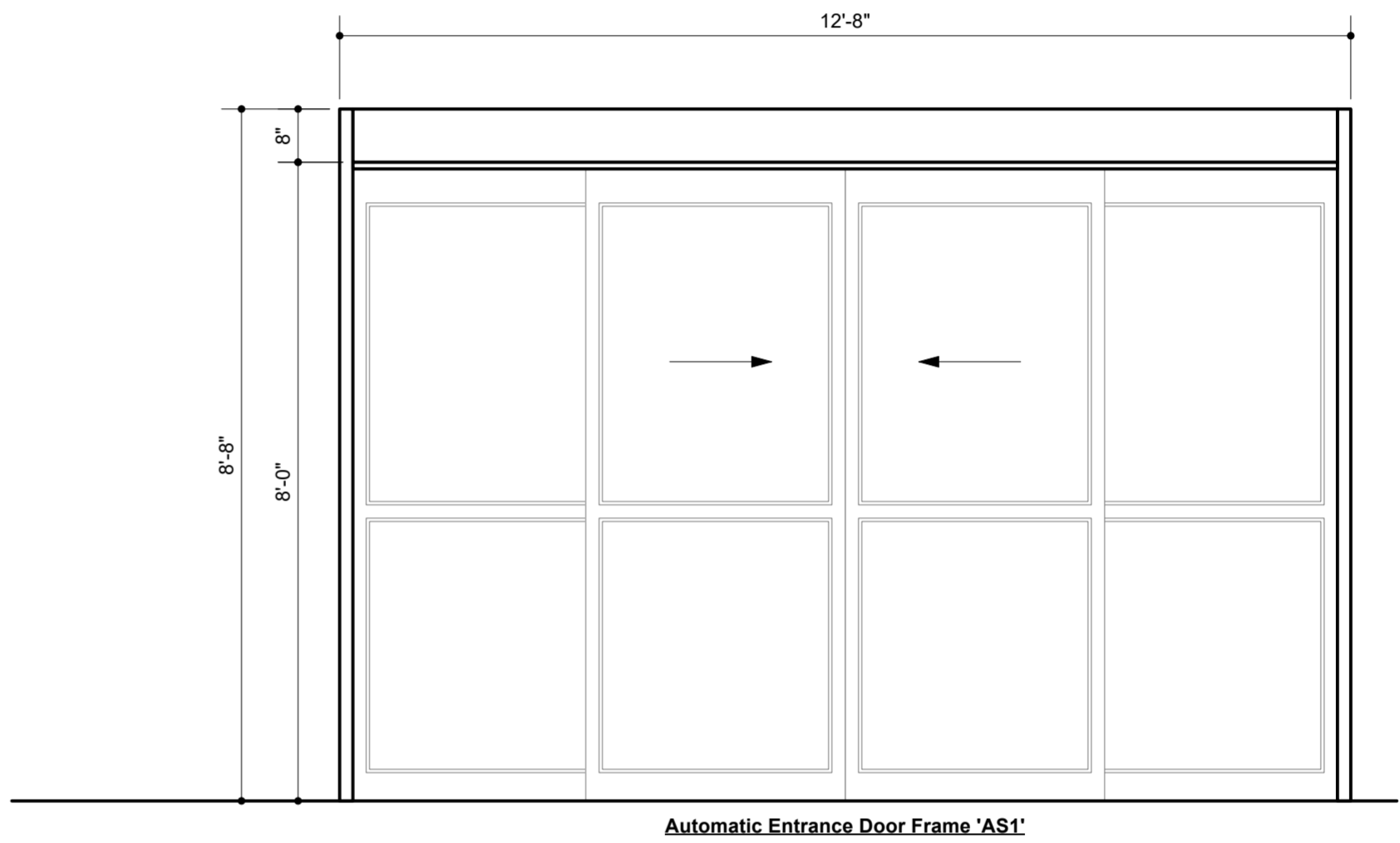
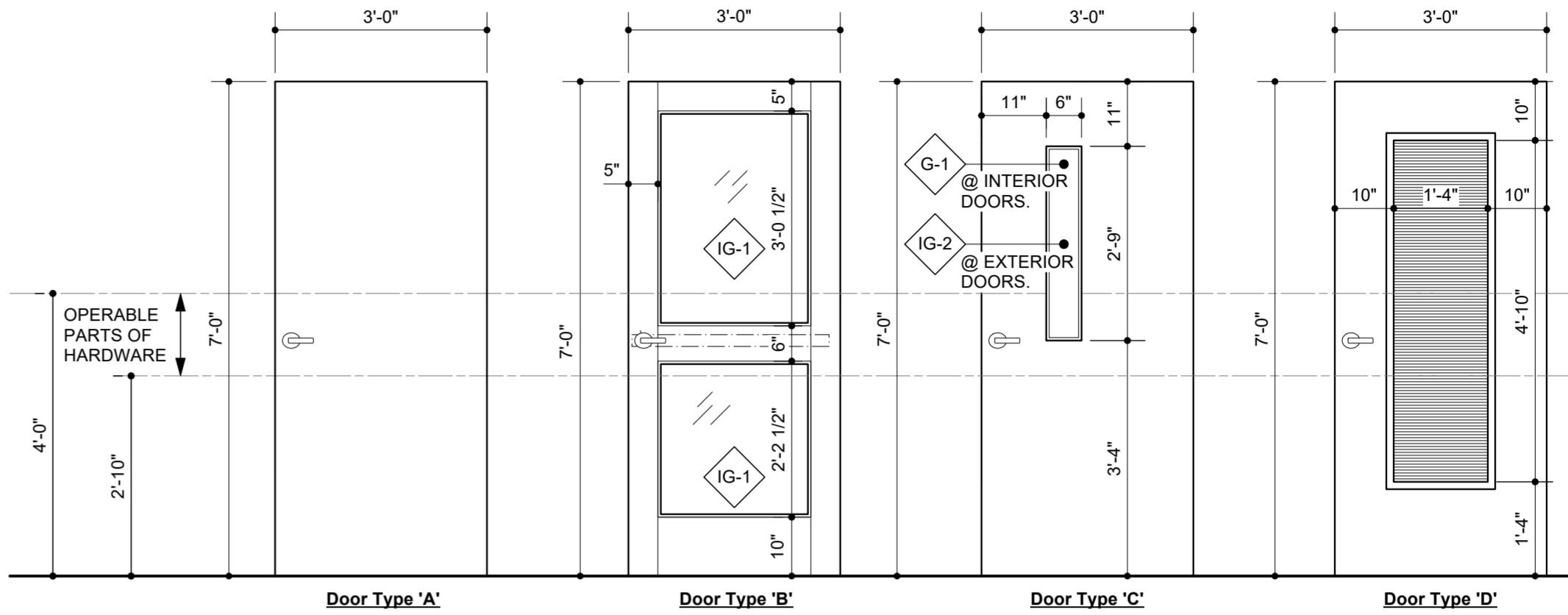
A5.6

FINISH SCHEDULE								
ID	ROOM NAME	FLOOR FINISH	BASE MATERIAL	NORTH WALL FINISH	EAST WALL FINISH	SOUTH WALL FINISH	WEST WALL FINISH	REMARKS
100	Vestibule	Entryway Tile Carpet	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
101	Lobby	Entryway Tile Carpet	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
102	Riser	Sealed Concrete	RB	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	
103	Toilet	PT-1	PT	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	Wall Tile Wainscot - See detail drawings.
104	Mens Restroom	PT-1	PT	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	Wall Tile Wainscot - See detail drawings.
105	Womens Restroom	PT-1	PT	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	Wall Tile Wainscot - See detail drawings.
106	Meeting Room	LVT	RB	Painted GWB	Painted GWB; PT	Painted GWB	Painted GWB	PT wainscot at sink - See sheet A4.0; Wall Protection up to 4'-0" AFF - See sheet A7.5 for extents; Roller Shades at windows
107	Storage	LVT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
108	Kitchenette	LVT	RB	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	
109	Work Room	LVT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
110	Multipurpose Room	LVT	RB	Painted GWB	Painted GWB	Painted GWB; PT	Painted GWB	PT wainscot at sink - See sheet A4.0; Wall Protection up to 4'-0" AFF - See sheet A7.5 for extents; Roller Shades at window
111	Custodial	Sealed Concrete	RB	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	
112	Friends of Library	Entryway Tile Carpet	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
113	Corridor	Entryway Tile Carpet	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
114	Storage	LVT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
115	Toilet	PT-1	PT	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	Wall Tile Wainscot - See detail drawings.
116	Nursing	LVT	RB	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	
117	Children's Circulation	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
118	Children's Library	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
119	Children's Reading	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
120	Group Meeting	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
121	Group Meeting	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
122	Pre-Teen Reading	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	Entryway Tile Carpet at exterior door - See plan for extents.
123	Popular Library	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	Entryway Tile Carpet at exterior door - See plan for extents.
124	Popular Library Reading	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
125	Teen Reading Room	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
126	Teen Bookstacks	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
127	Adult Reading	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
128	Group Meeting	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
129	Group Meeting	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
130	Group Meeting	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
131	Adult Library	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
132	Group Meeting	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
133	Group Meeting	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
134	Conference Room	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	Roller Shades at windows
135	Break Room	LVT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	Roller Shades at windows
136	Librarian Office	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	Roller Shades at windows
137	Corridor	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	Entryway Tile Carpet at exterior door - See plan for extents.
138	Toilet	PT-1	PT	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	Epoxy Painted GWB	Wall Tile Wainscot - See detail drawings.
139	Librarian Office	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
140	Manager Office	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	Roller Shades at windows
141	Work Room	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	Roller Shades at windows
142	Book Drop	LVT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	2-HR Fire Rated Room
143	Circulation	CPT	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
D1	Data	Sealed Concrete	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	
E1	Electrical	Sealed Concrete	RB	Painted GWB	Painted GWB	Painted GWB	Painted GWB	

NOTES:
- See Floor Finish Plan for additional information.
- Refer to individual finish technical specifications in the project manual for additional information related to interior finish class ratings.

DOOR SCHEDULE																
Door									Frame				Remarks			Hardware
																Signage
ID #	WIDTH	HEIGHT	THICKNESS	OPERATION	TYPE	MATERIAL	GLAZING TYPE	FIRE RATING	JAMB DEPTH	TYPE	MATERIAL	FIRE RATING				SET #
																SIGN TYPE
100A	12'8"	8'8"	1 3/4"	Double Bi-part		ALUM		-	4 1/2"	AS1	ALUM	-	Automatic Entrance Door; comply with section 1010.1.4.3 of the 2018 NCBC			01
100B	12'8"	8'8"	1 3/4"	Double Bi-part		ALUM		-	4 1/2"	AS1	ALUM	-	Automatic Entrance Door; comply with section 1010.1.4.3 of the 2018 NCBC			01
101A	14'1 1/4"	10'0"	1 1/2"	Single		ALUM		-			ALUM	-	Horizontal Sliding Storefront			01
102A	3'3"	7'1 1/2"	1 3/4"	Single	A	ALUM		-	7 1/2"	AL2	ALUM	-				05
103A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	7 3/4"	AL1	ALUM	-				19
104A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	7 3/4"	AL1	ALUM	-				13
105A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	7 3/4"	AL1	ALUM	-				13
106A	3'0"	7'0"	1 3/4"	Single	C	WOOD		-	7 3/4"	AL1	ALUM	-	Panic Hardware			10
106B	3'3"	7'1 1/2"	1 3/4"	Single	C	ALUM		-	7 1/2"	AL2	ALUM	-	Panic Hardware			04
107A	3'8"	7'0"	1 3/4"	Single	A	WOOD		-	10"	AL1	ALUM	-				15
107B	3'8"	7'0"	1 3/4"	Single	A	WOOD		-	7 3/4"	AL1	ALUM	-				15
108A	3'0"	7'0"	1 3/4"	Single	C	WOOD		-	10"	AL1	ALUM	-				12
108B	3'0"	7'0"	1 3/4"	Single	C	WOOD		-	7 3/4"	AL1	ALUM	-				12
109A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	7 3/4"	AL1	ALUM	-				18
110A	3'0"	7'0"	1 3/4"	Single	C	WOOD		-	10"	AL1	ALUM	-				08
110B	6'0"	7'0"	1 3/4"	Double Bi-part	C	WOOD		-	7 3/4"	AL1	ALUM	-				09
110C	3'3"	7'1 1/2"	1 3/4"	Single	C	ALUM		-	7 1/2"	AL2	ALUM	-	Panic Hardware			04
111A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	10"	AL1	ALUM	-				17
111B	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	7 3/4"	AL1	ALUM	-				17
114A	6'0"	7'0"	1 3/4"	Double Bi-part	A	WOOD		-	7 3/4"	AL1	ALUM	-				16
114B	6'0"	7'0"	1 3/4"	Double Bi-part	A	WOOD		-	7 3/4"	AL1	ALUM	-				09
115A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	7 3/4"	AL1	ALUM	-				19
116A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	7 3/4"	AL1	ALUM	-				19
118A	3'3"	7'0"	2 1/4"	Single	B	ALUM		-	7 1/2"	AL4	ALUM	-	Panic Hardware			03
120A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	6"	AL6	ALUM	-				20
121A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	6"	AL6	ALUM	-				20
123A	6'0"	7'0"	2 1/4"	Double Bi-part	B	ALUM		-	7 1/2"	AL3	ALUM	-	Panic Hardware			02
124A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	6"	AL8	ALUM	-				21
127A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	6"	AL6	ALUM	-				20
128A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	6"	AL6	ALUM	-				20
129A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	6"	AL5	ALUM	-				20
130A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	6"	AL7	ALUM	-				20
131A	3'3"	7'1 1/2"	1 3/4"	Single	A	WOOD		-	7 1/2"	AL2	ALUM	-	Panic Hardware			04
132A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	6"	AL6	ALUM	-				20
133A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	6"	AL6	ALUM	-				20
134A	3'0"	7'0"	1 3/4"	Single	C	WOOD		-	9 1/2"	AL1	ALUM	-				11
135A	3'0"	7'0"	1 3/4"	Single	C	WOOD		-	7 3/4"	AL1	ALUM	-				11
136A	3'0"	7'0"	1 3/4"	Single	C	WOOD		-	7 3/4"	AL1	ALUM	-				18
137A	3'3"	7'1 1/2"	1 3/4"	Single	C	ALUM		-	7 1/2"	AL2	ALUM	-	Panic Hardware			04
137B	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	7 3/4"	AL1	ALUM	-				14
138A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	7 3/4"	AL1	ALUM	-				19
139A	3'0"	7'0"	1 3/4"	Single	C	WOOD		-	7 3/4"	AL1	ALUM	-				18
140A	3'0"	7'0"	1 3/4"	Single	C	WOOD		-	7 3/4"	AL1	ALUM	-				18
141A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	7 3/4"	AL1	ALUM	-				11
142A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	9 1/4"	AL1	ALUM	-	90 MIN Fire-rated door and frame			06
143A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	9 1/2"	AL1	ALUM	-				14
D1A	3'0"	7'0"	1 3/4"	Single	D	WOOD		-	7 3/4"	AL1	ALUM	-	Lowered Door			14
E1A	3'0"	7'0"	1 3/4"	Single	A	WOOD		-	7 3/4"	AL1	ALUM	-	Panic Hardware			07

SEE INTERIOR DETAILS SHEET A5.5 FOR ADDITIONAL SIGNAGE INFO.



Typical Interior Alum. Door Frame Profiles

GLAZING TYPES	
1" INSULATED, TEMPERED, CLEAR	1" INSULATED, TEMPERED, OBSCURE, TINTED
1" INSULATED, TEMPERED, TINTED	1/4" MONOLITHIC, TEMPERED
1-5/16" INSULATED, TEMPERED, SOUND CONTROL, CLEAR	9/16" MONOLITHIC, TEMPERED, SOUND CONTROL, CLEAR
1-5/16" INSULATED, TEMPERED, SOUND CONTROL, TINTED	

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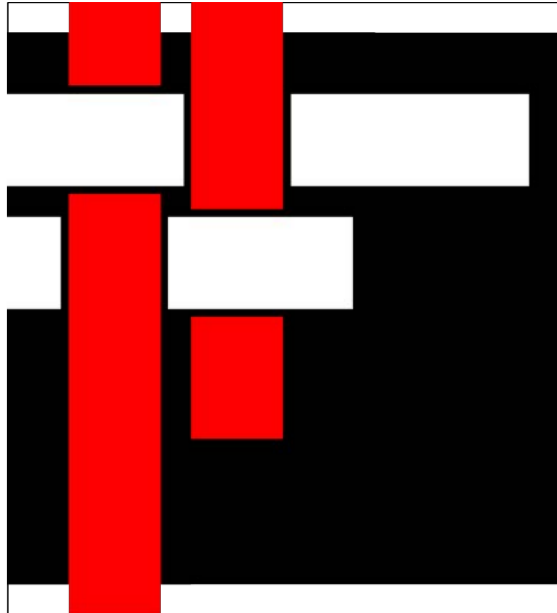
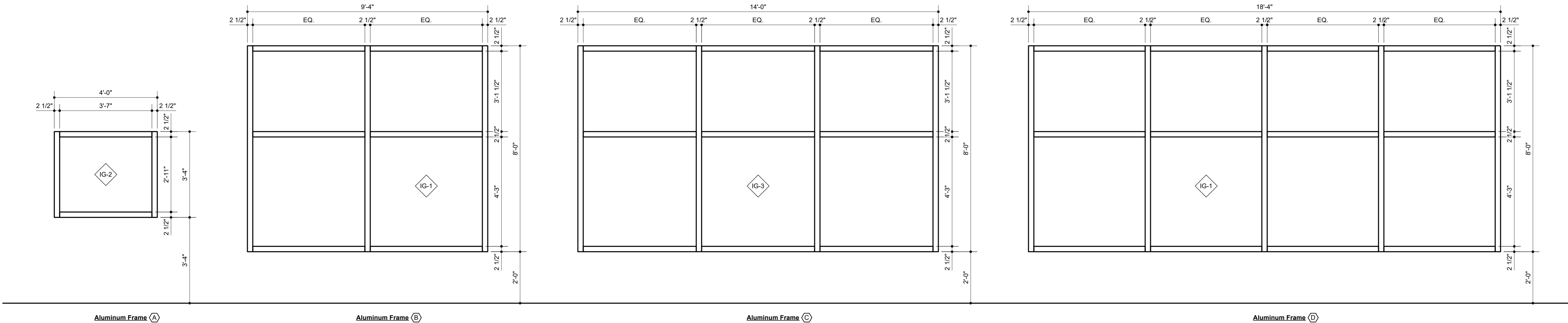
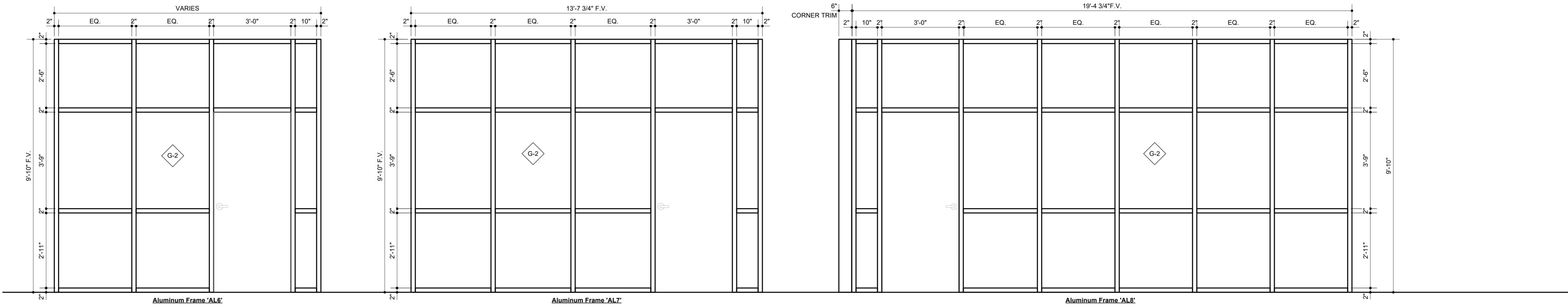
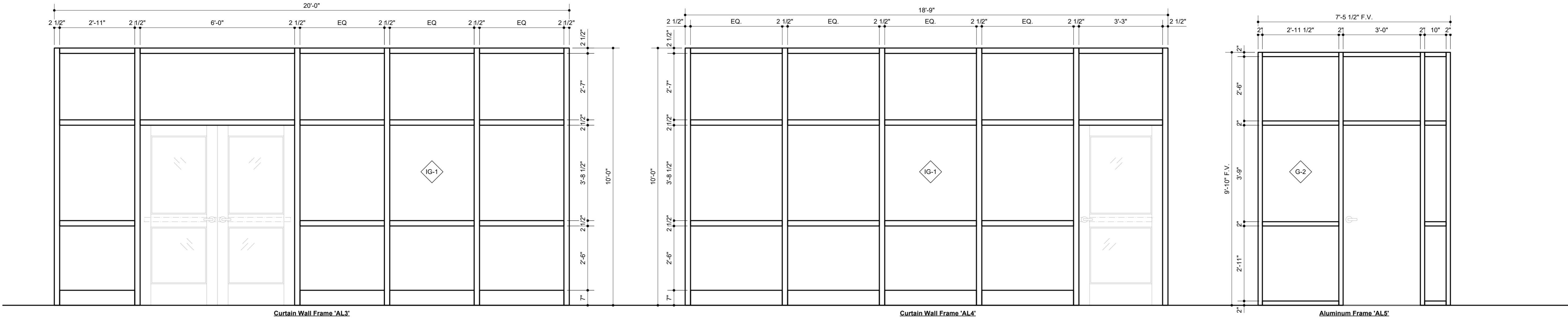
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FAX: (910) 452-4211
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WWW.CHEATHAMPA.COM
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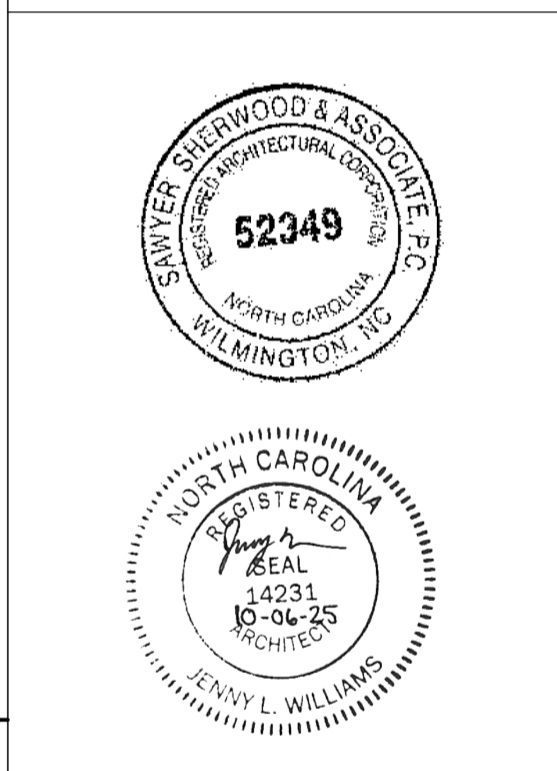
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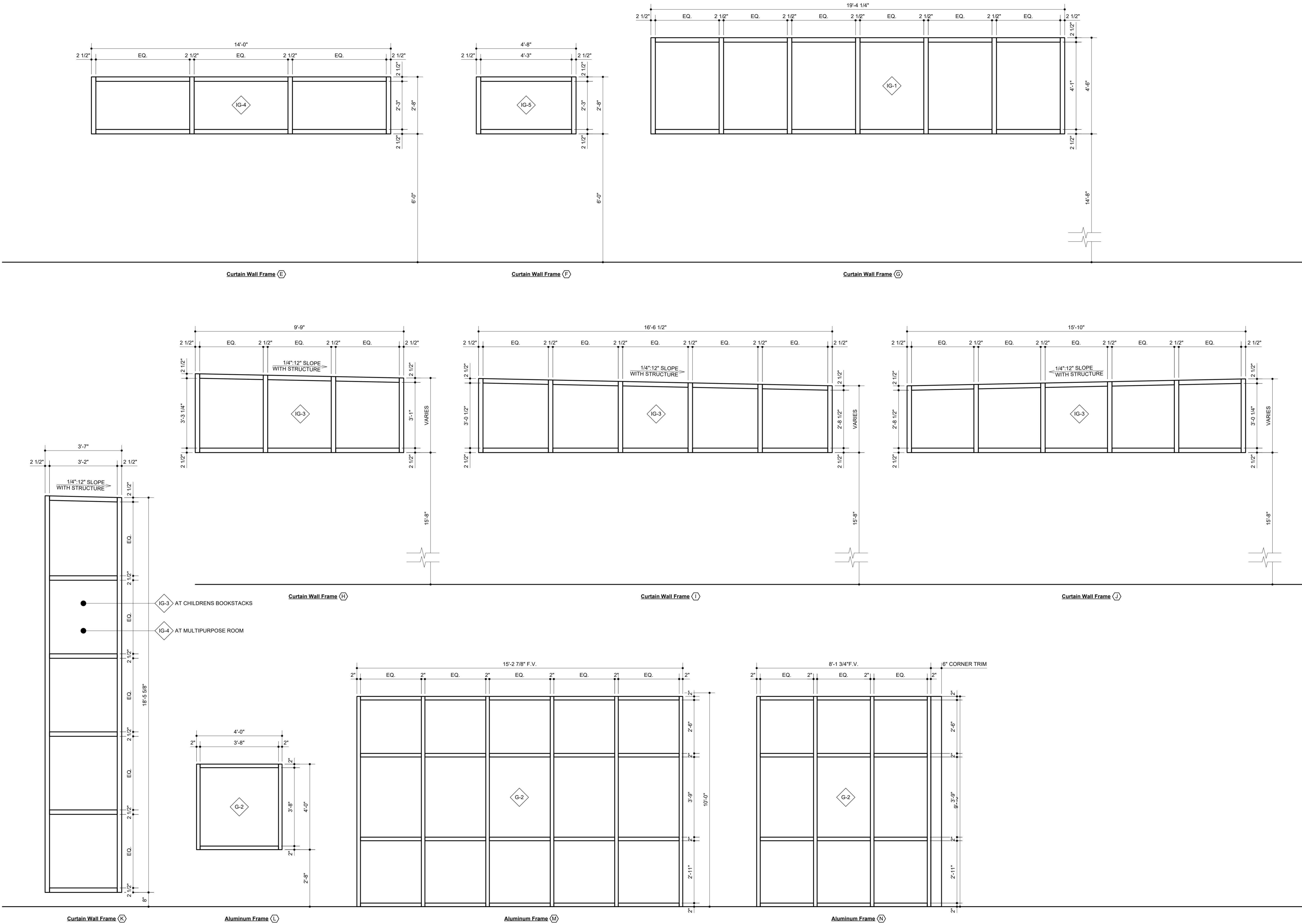
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Issue Date: October 6, 2025

**Door & Window
Elevations**

Rev.	Date	Notes

A6.1



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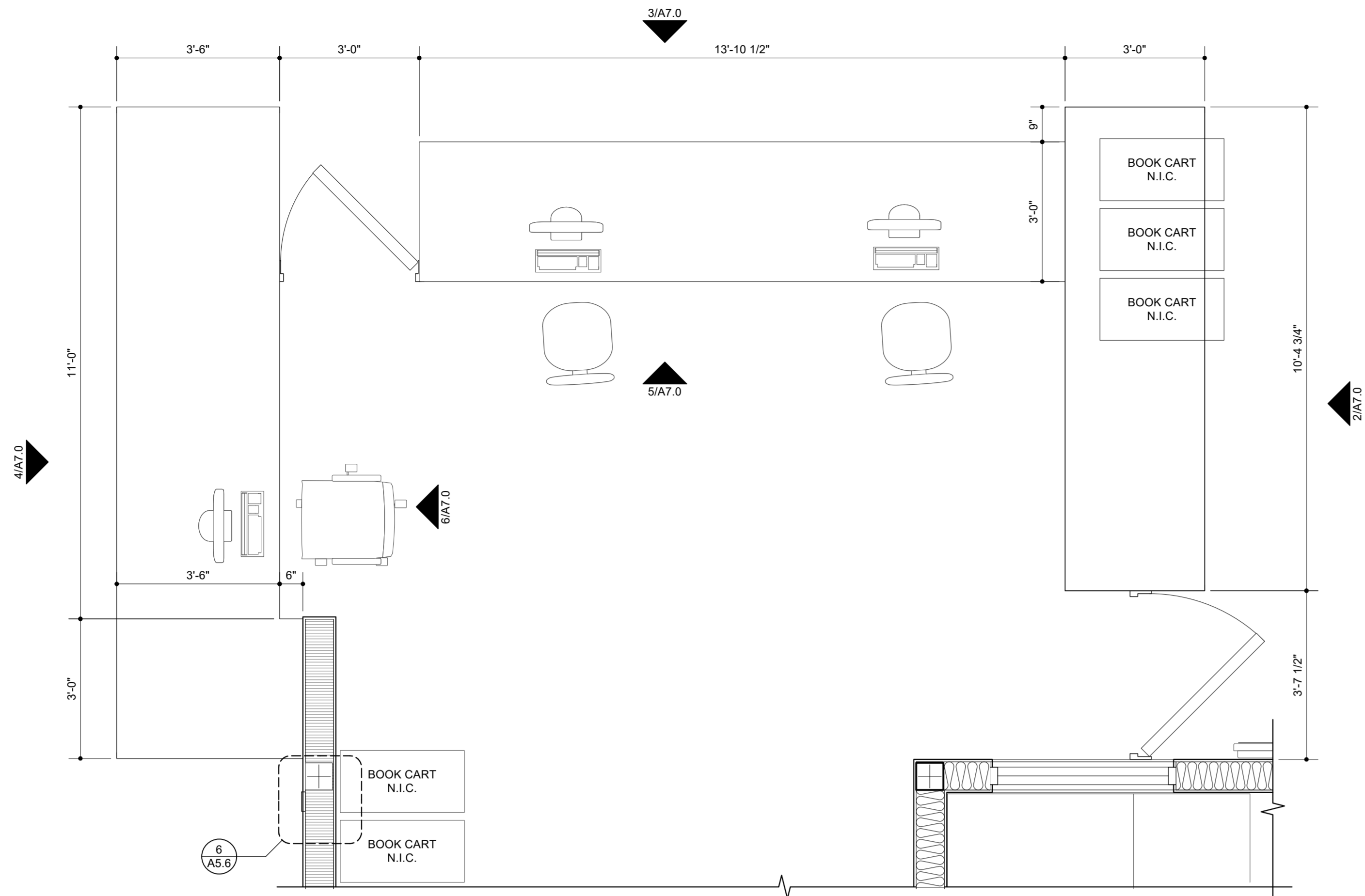
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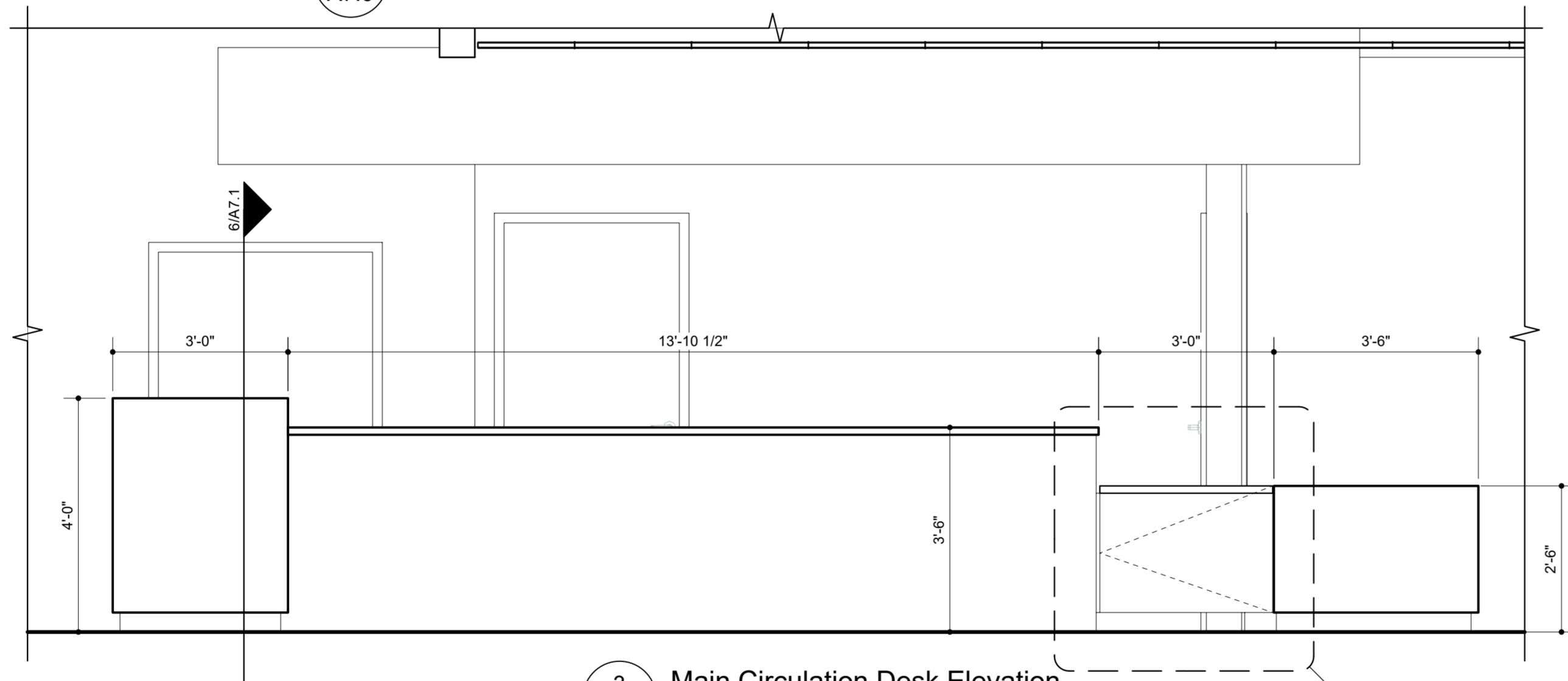
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Window Elevations

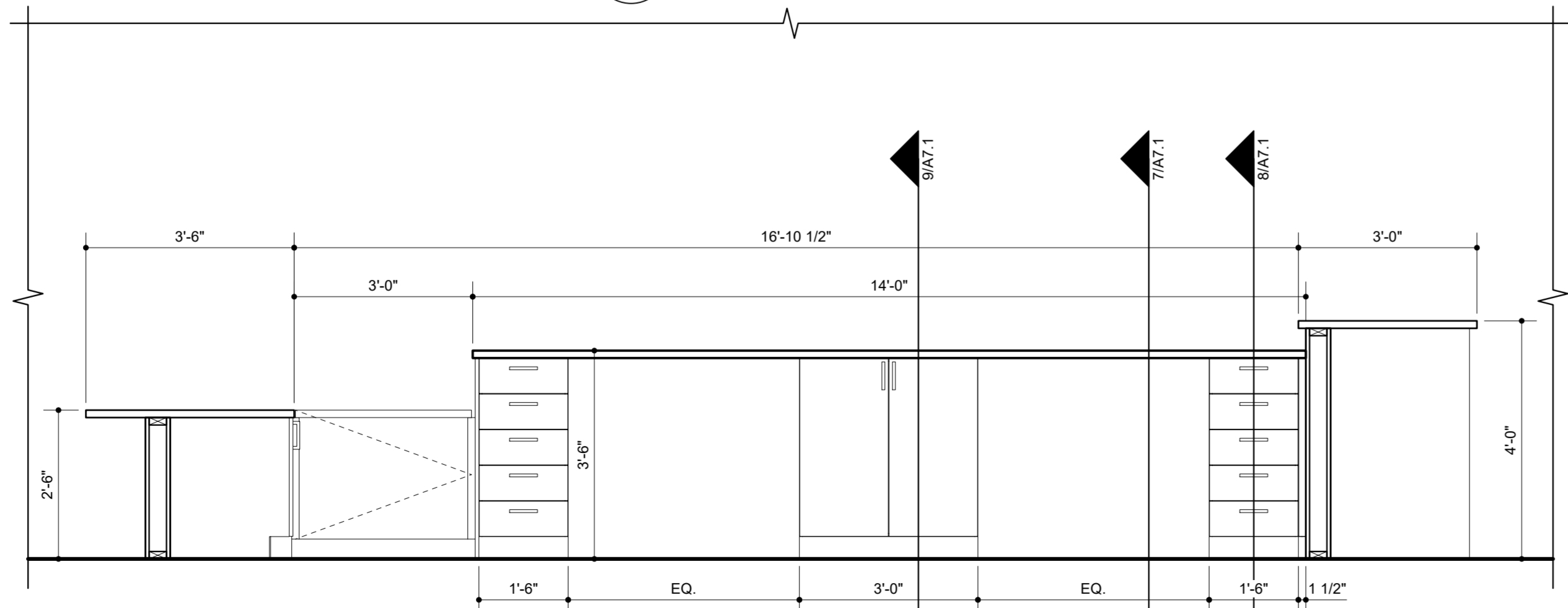
Rev.	Date	Notes



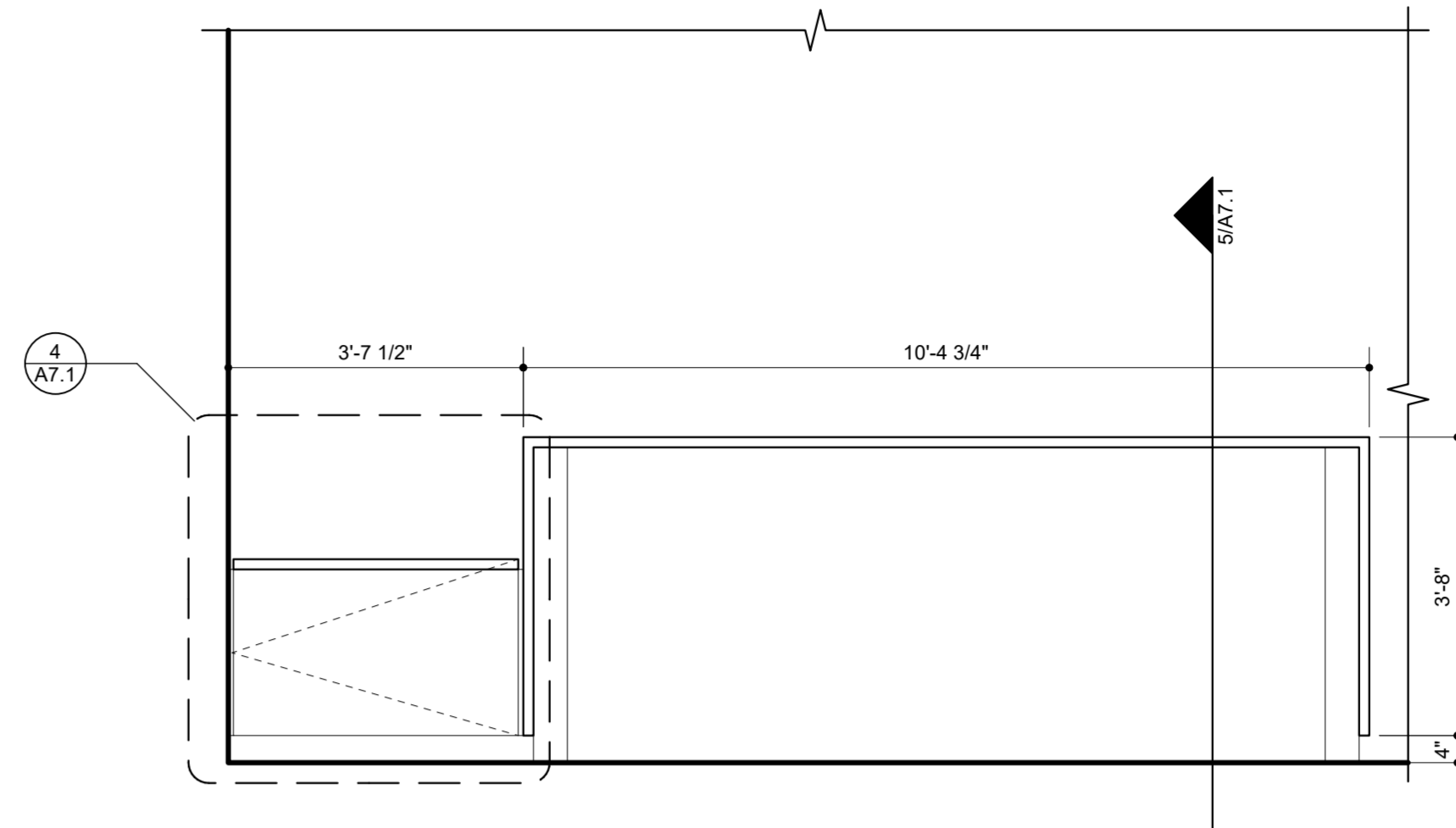
1 Circulation Desk Enlarged Plan
Scale: 1/2" = 1'-0"



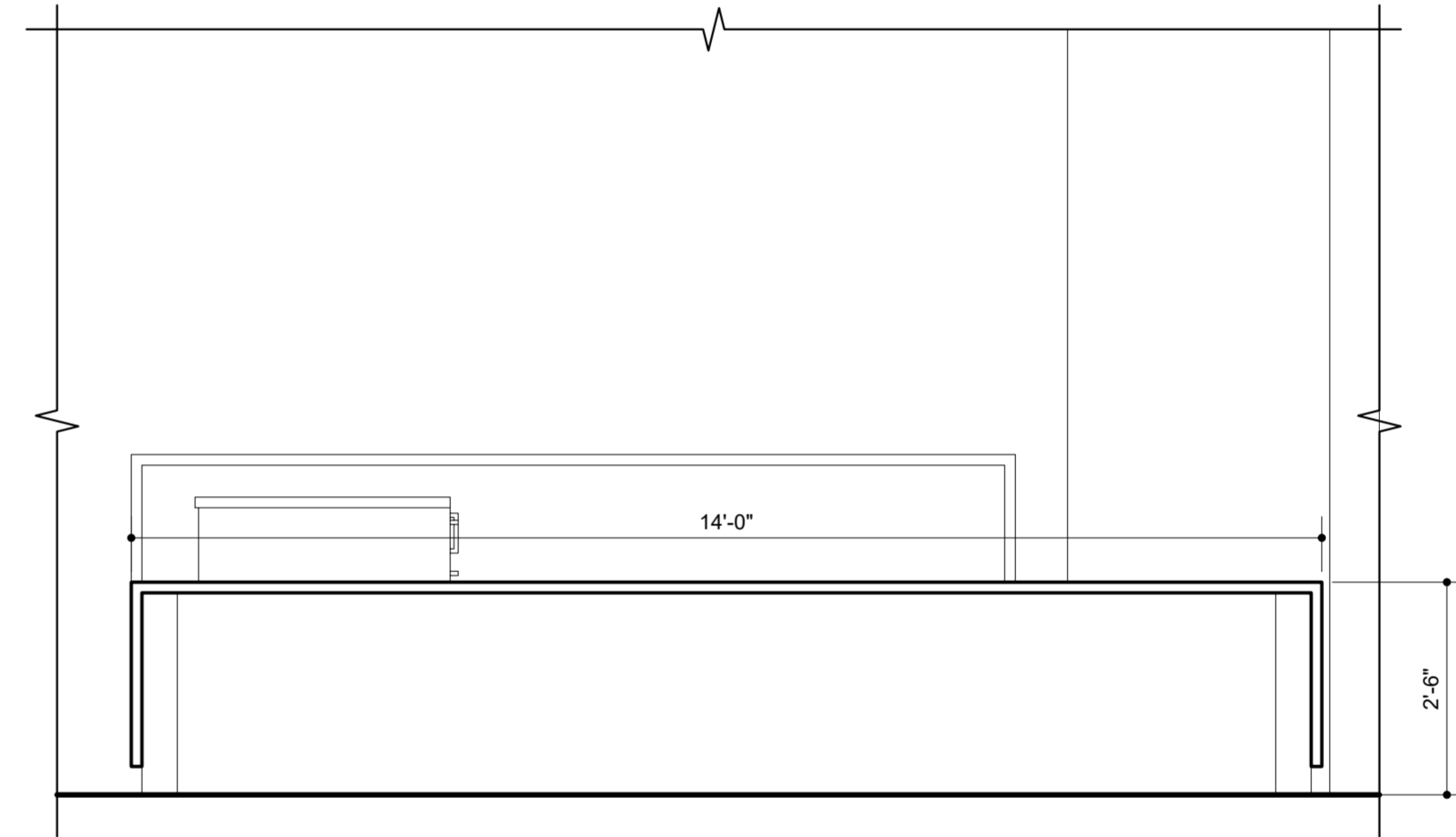
3 Main Circulation Desk Elevation
Scale: 1/2" = 1'-0"



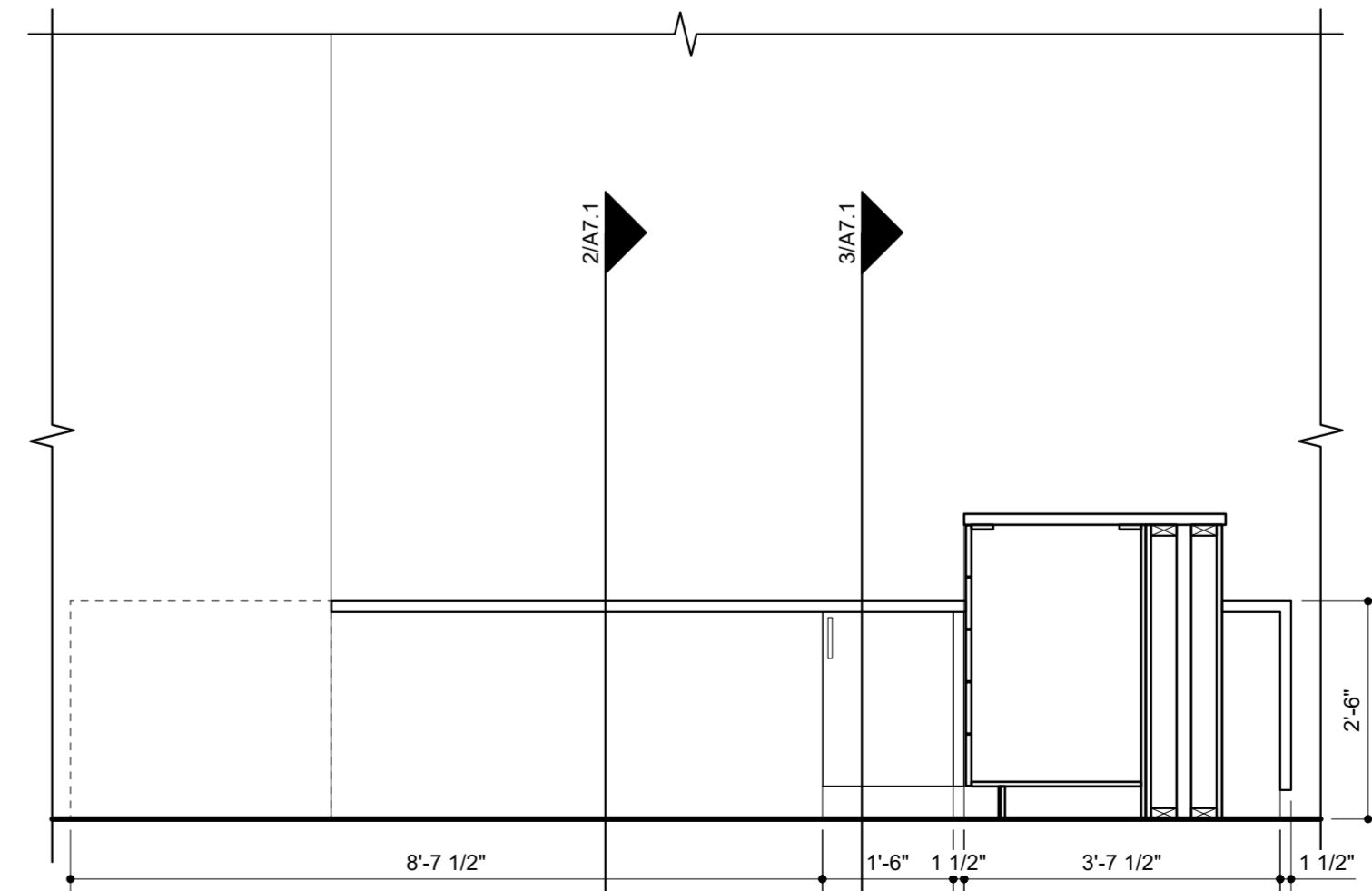
5 Main Circulation Desk Elevation
Scale: 1/2" = 1'-0"



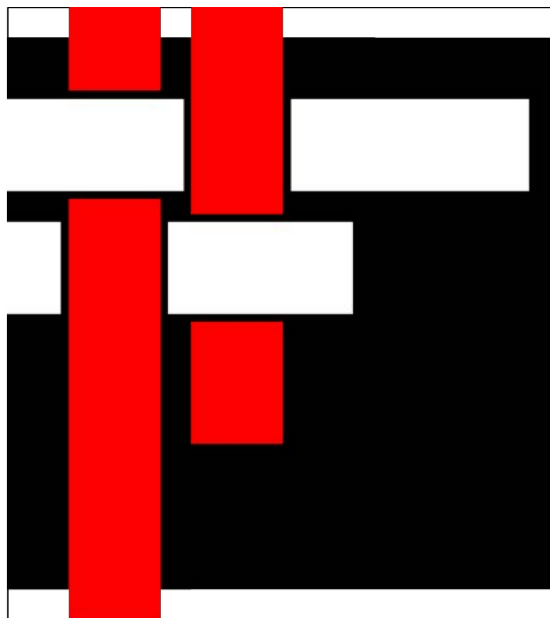
2 Main Circulation Desk Elevation
Scale: 1/2" = 1'-0"



4 Main Circulation Desk Elevation
Scale: 1/2" = 1'-0"



6 Main Circulation Desk Elevation
Scale: 1/2" = 1'-0"



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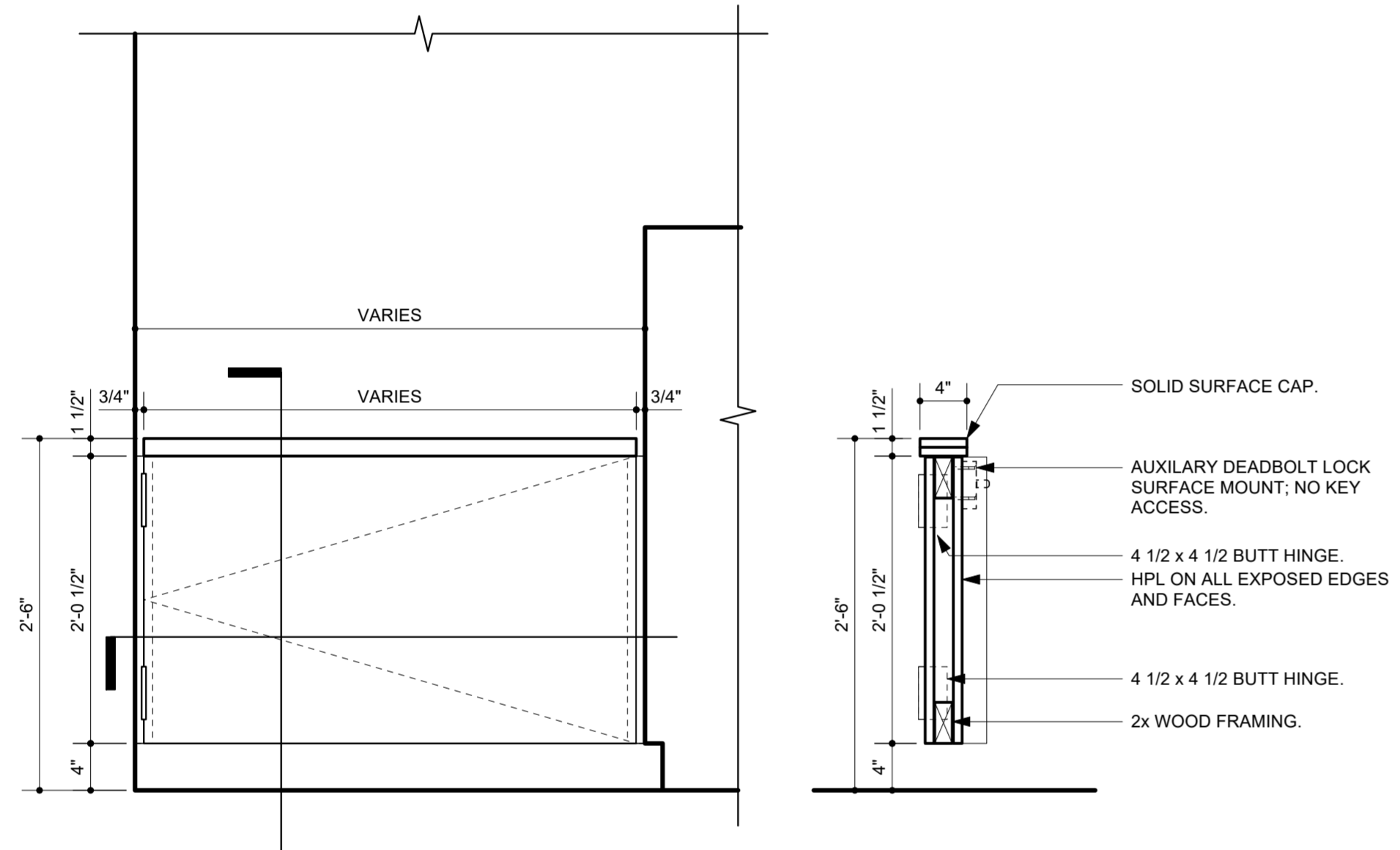
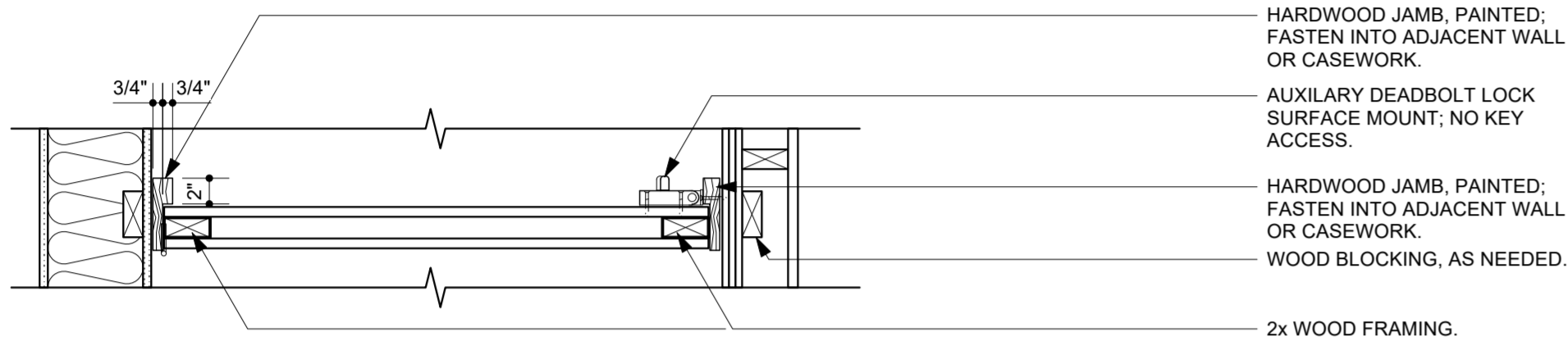
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Issue Date: October 6, 2025

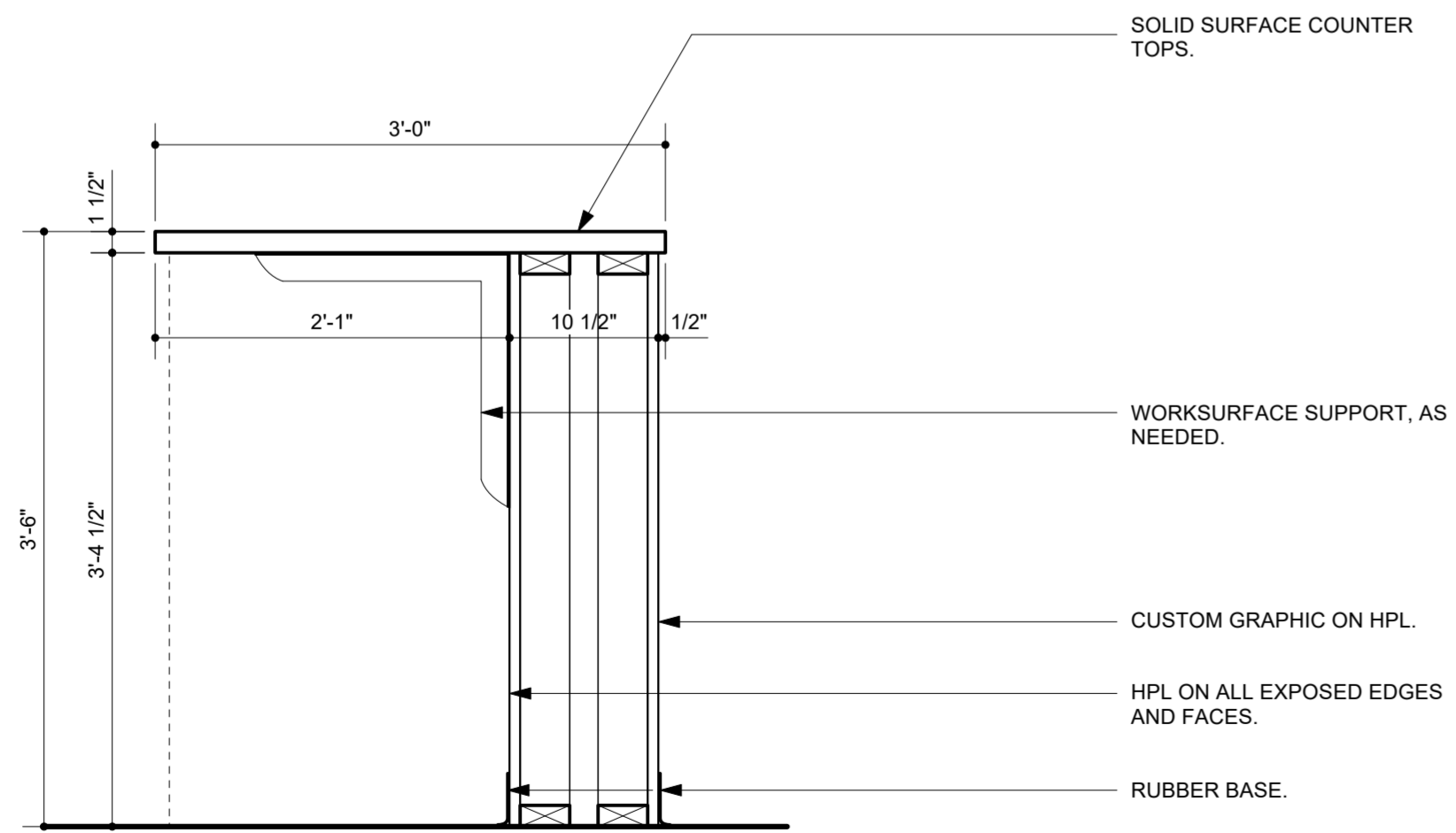
Main Circulation Desk
Casework

Rev.	Date	Notes

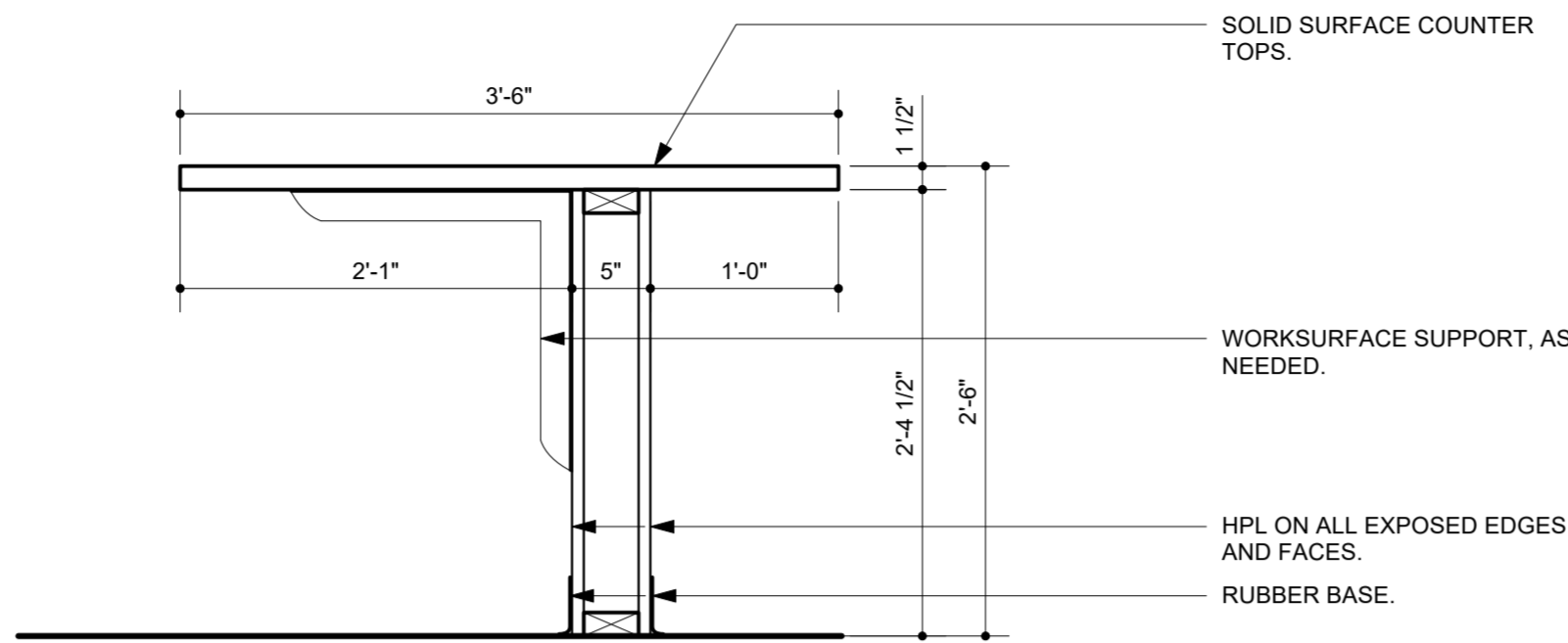
A7.0



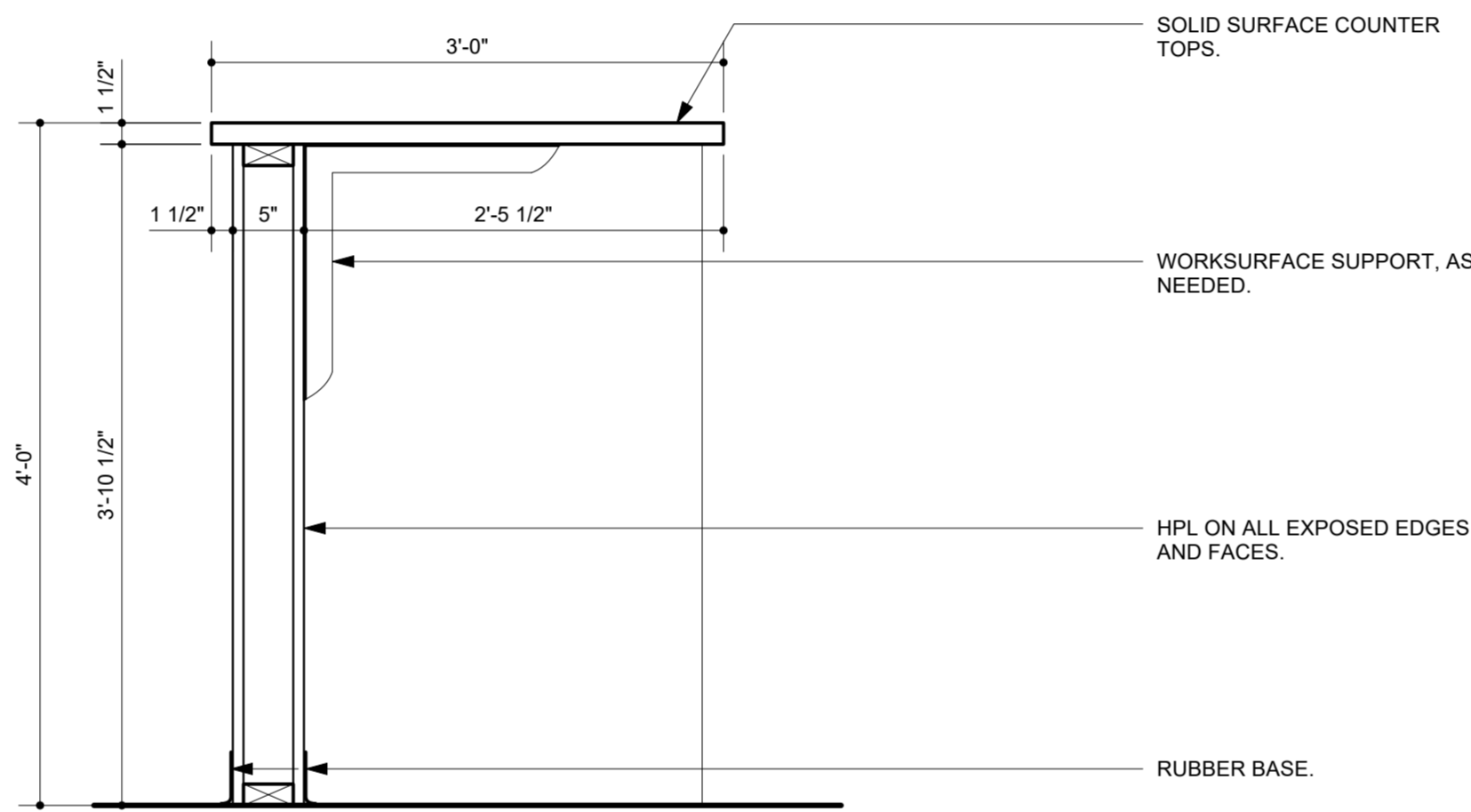
4 Main Circulation Desk Gate
A7.1 Scale: 1" = 1'-0"



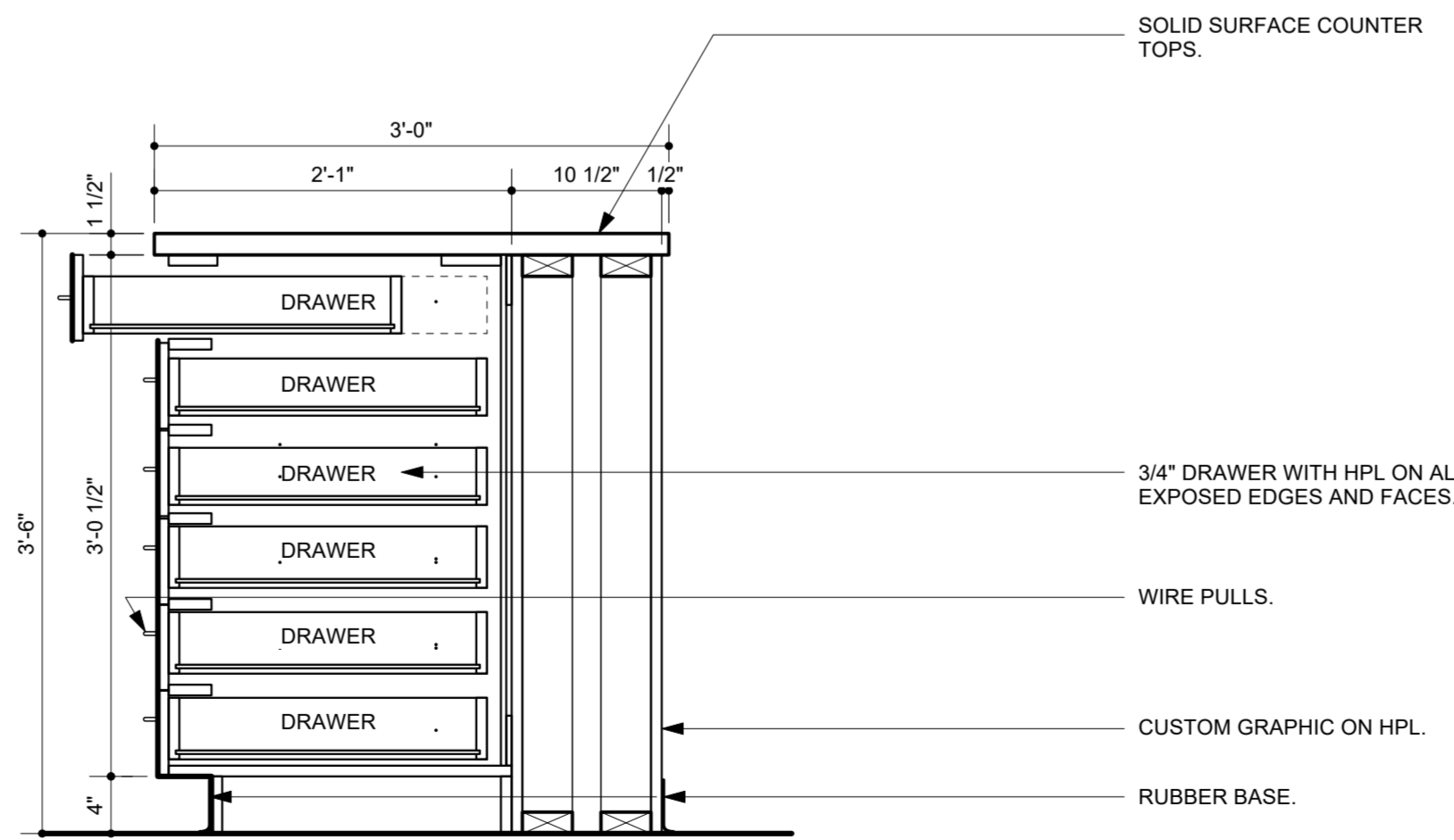
7 Main Circulation Desk Section
A7.1 Scale: 1" = 1'-0"



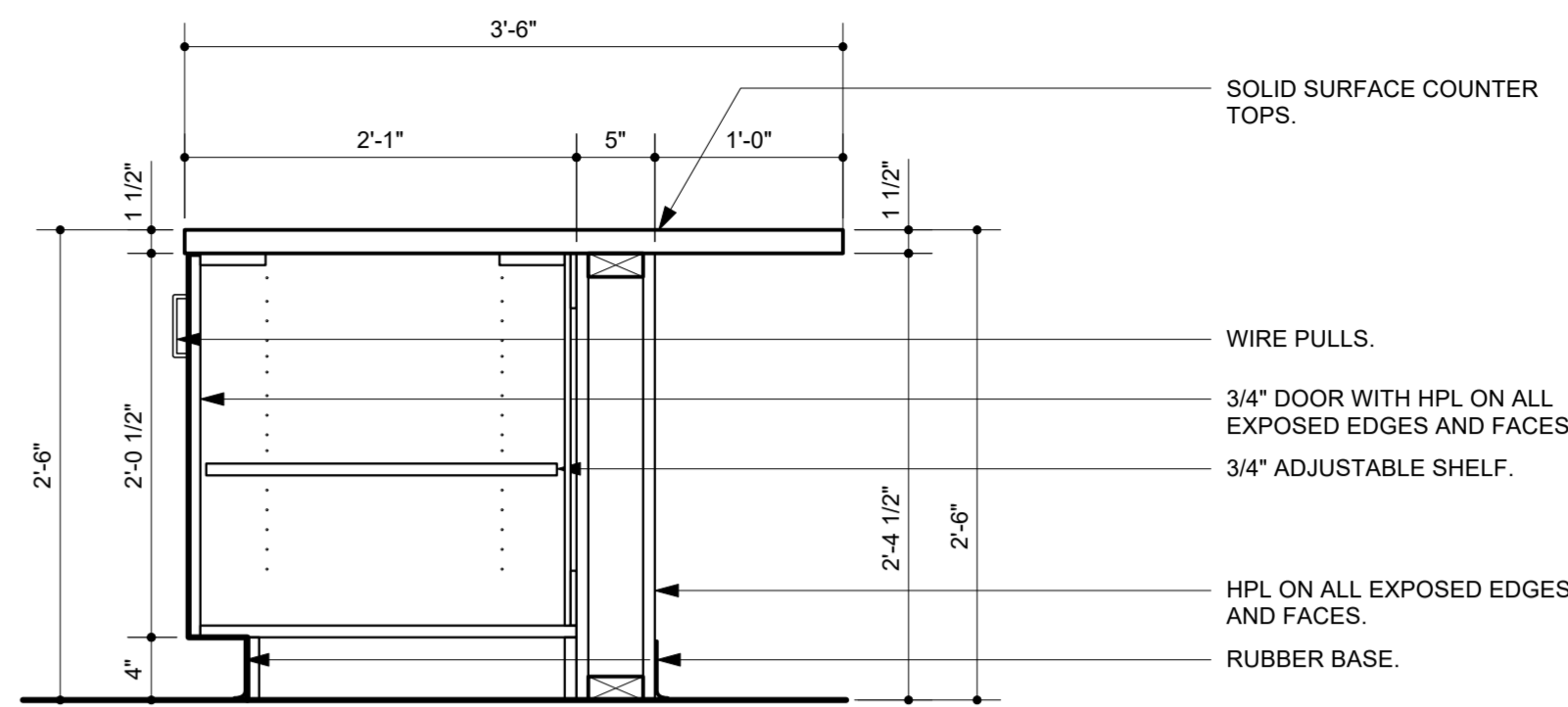
2 Main Circulation Desk Section
A7.1 Scale: 1" = 1'-0"



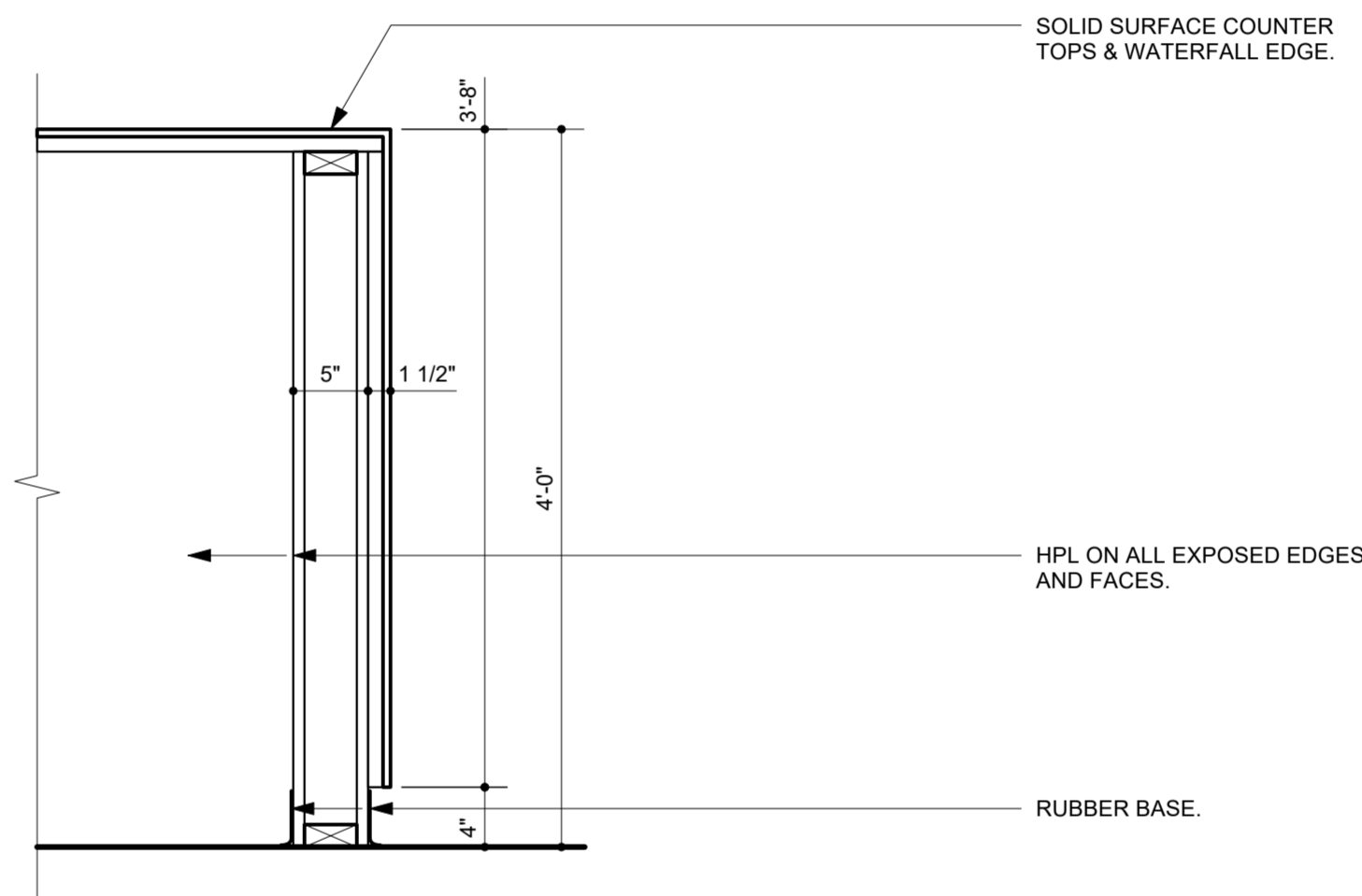
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A7.1 Scale: 1" = 1'-0"



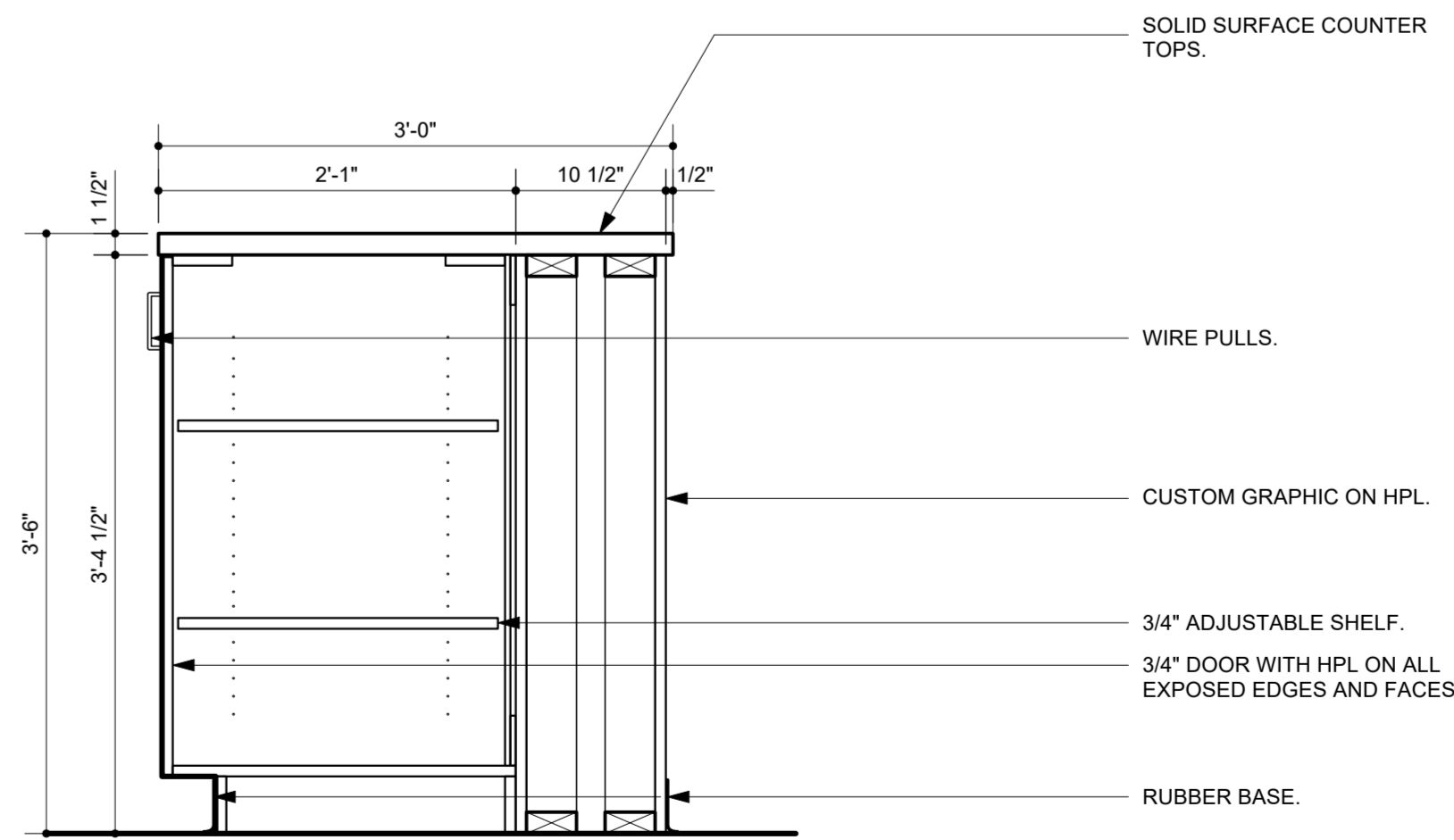
8 Main Circulation Desk Section
A7.1 Scale: 1" = 1'-0"



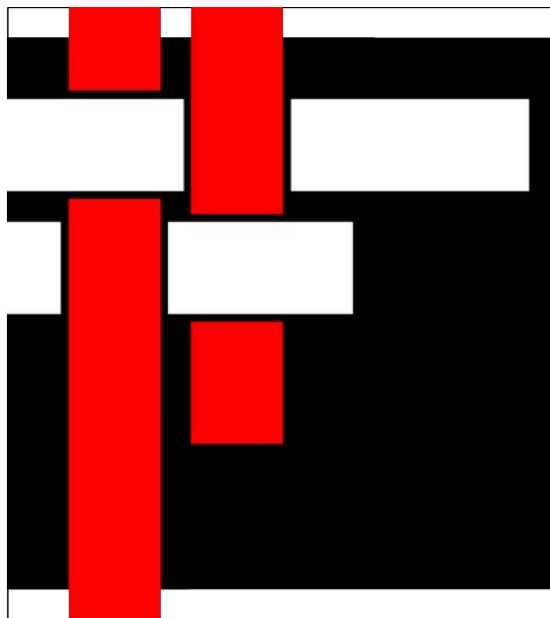
3 Main Circulation Desk Section
A7.1 Scale: 1" = 1'-0"



6 Main Circulation Desk Section
A7.1 Scale: 1" = 1'-0"



9 Main Circulation Desk Section
A7.1 Scale: 1" = 1'-0"



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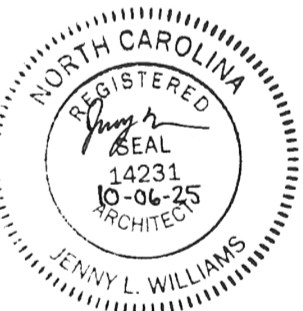
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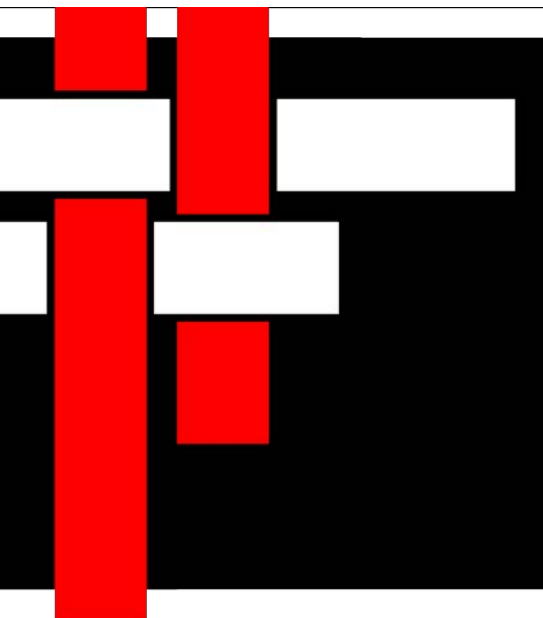
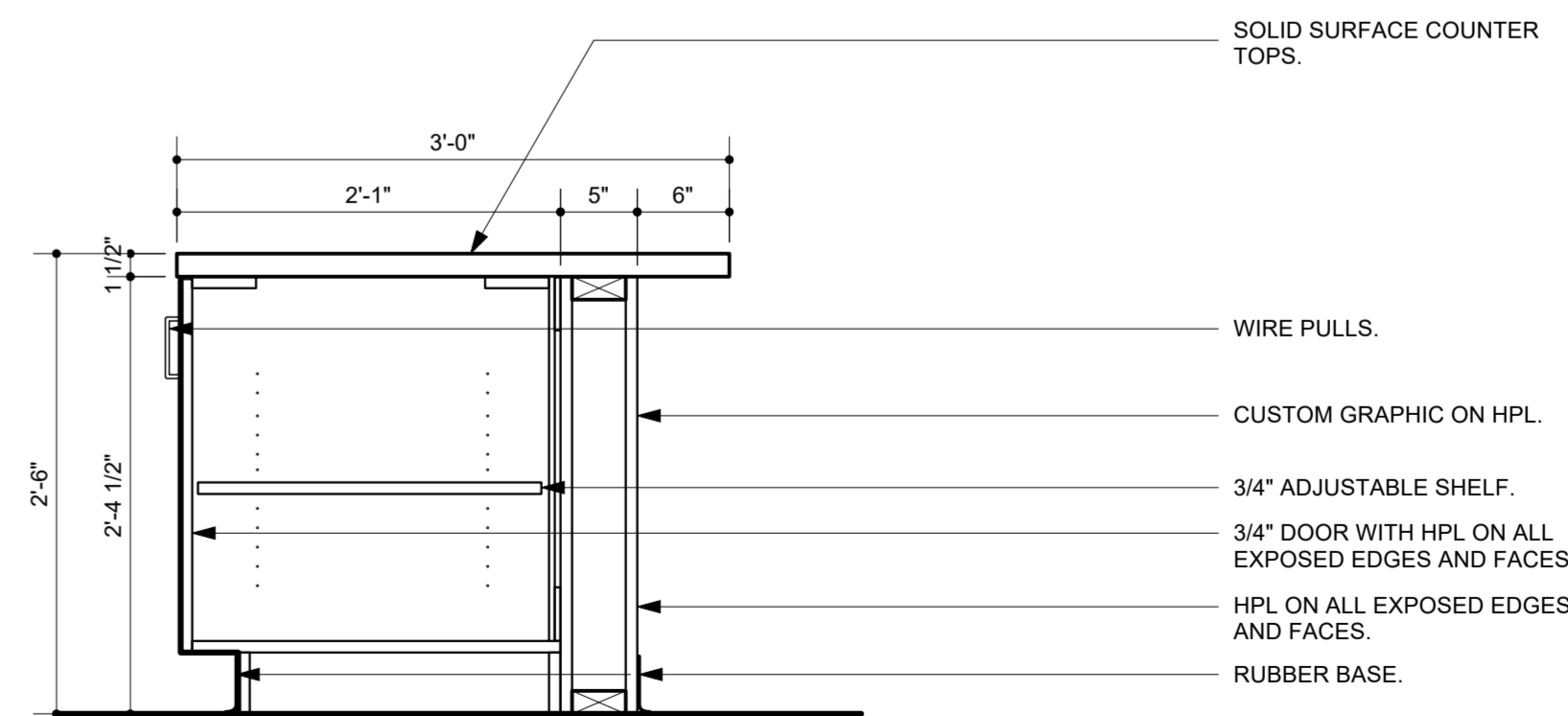
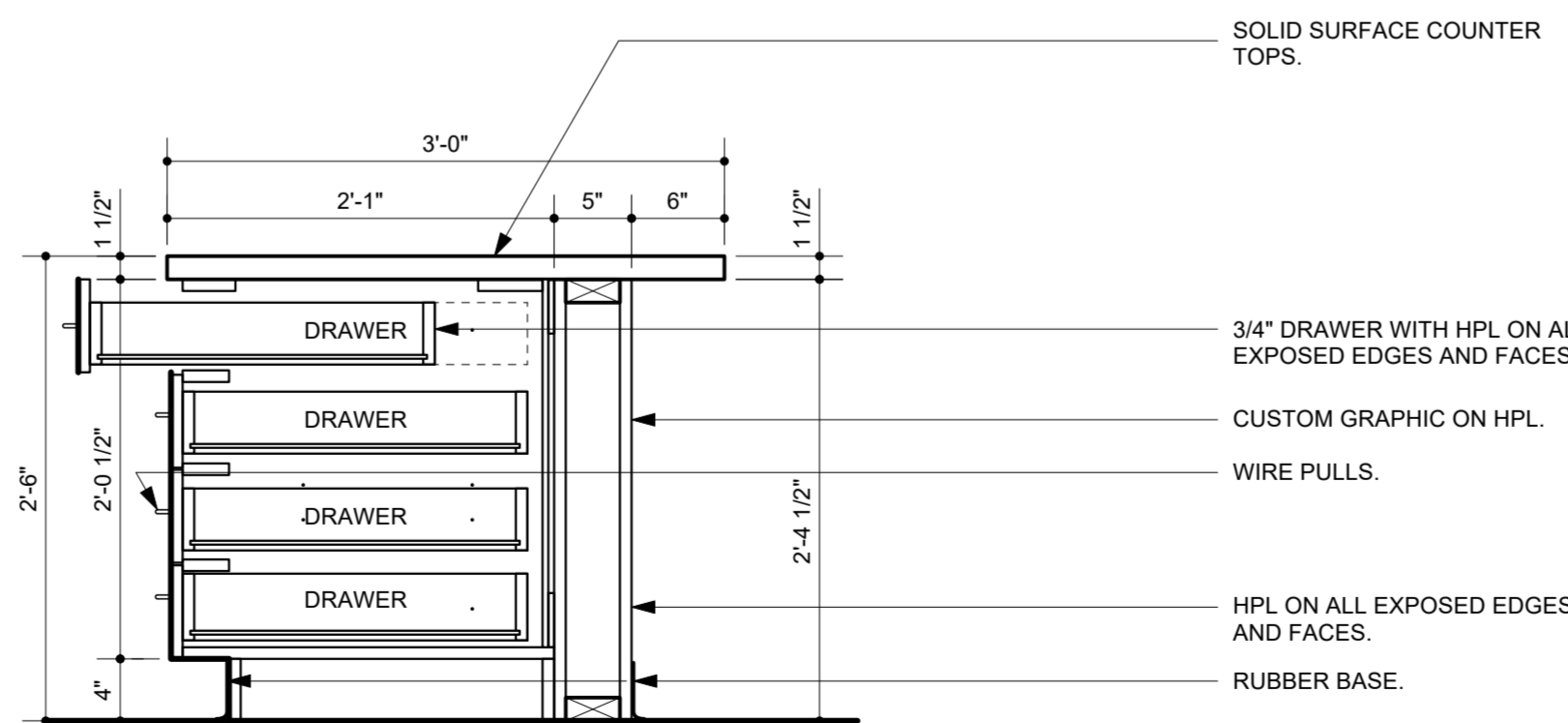
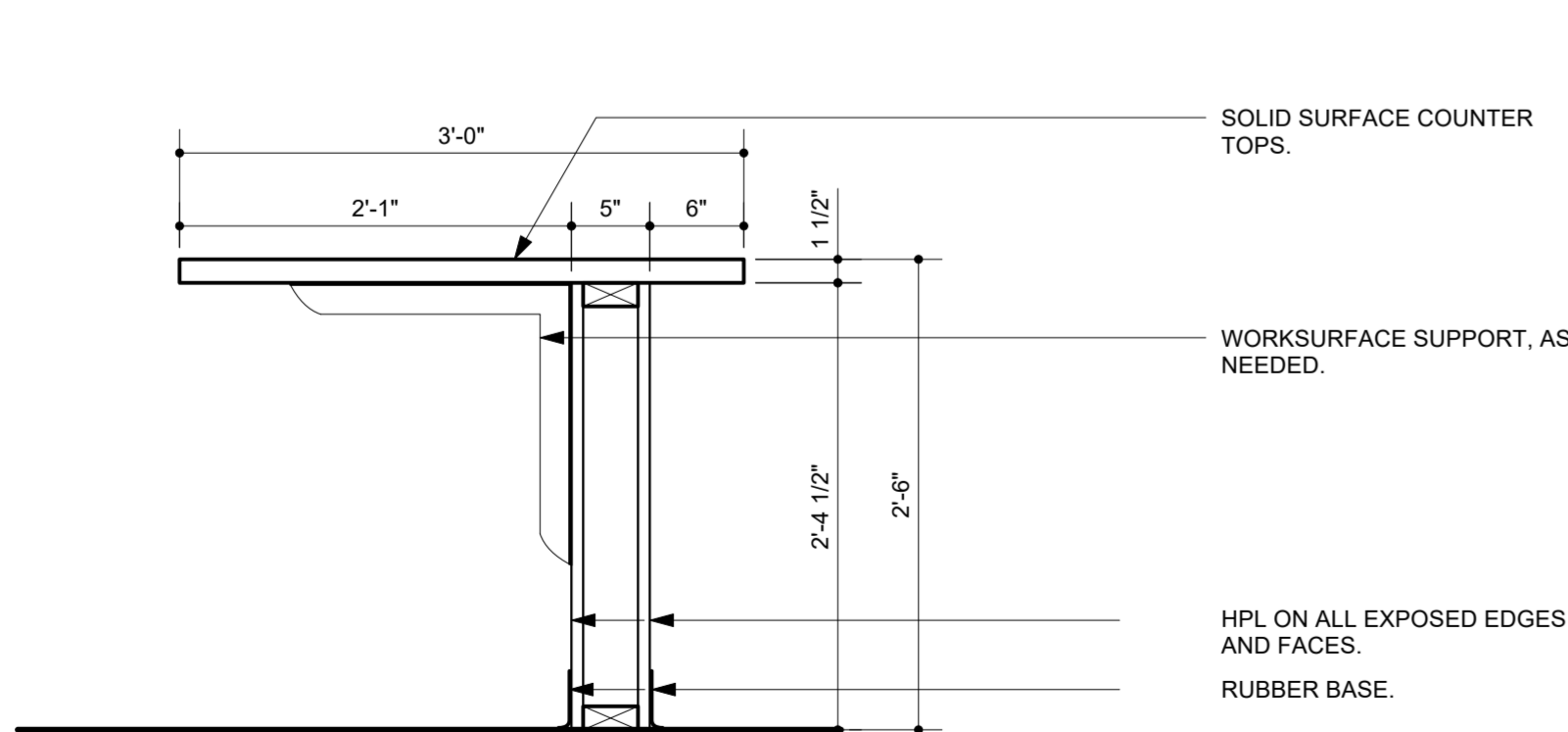
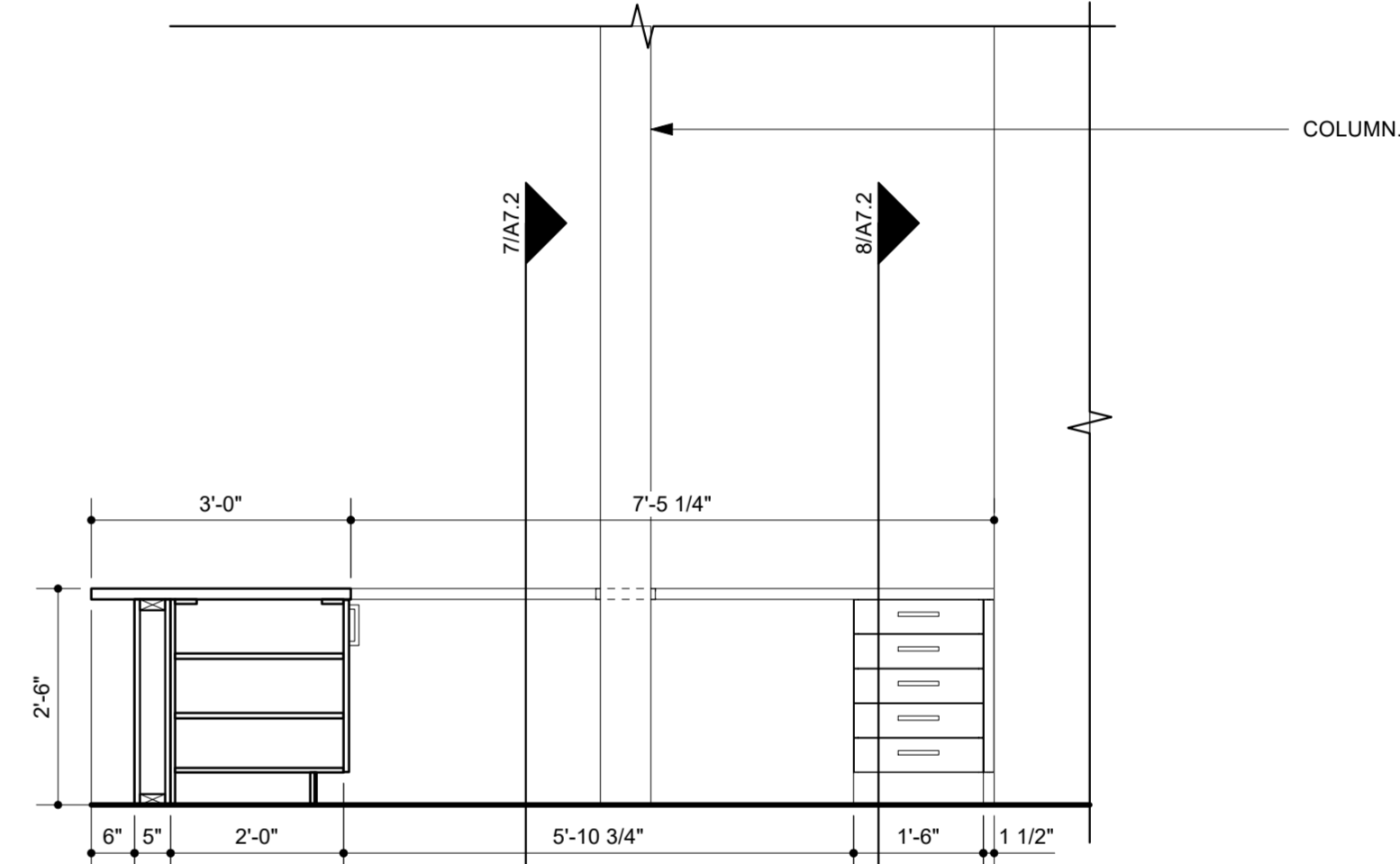
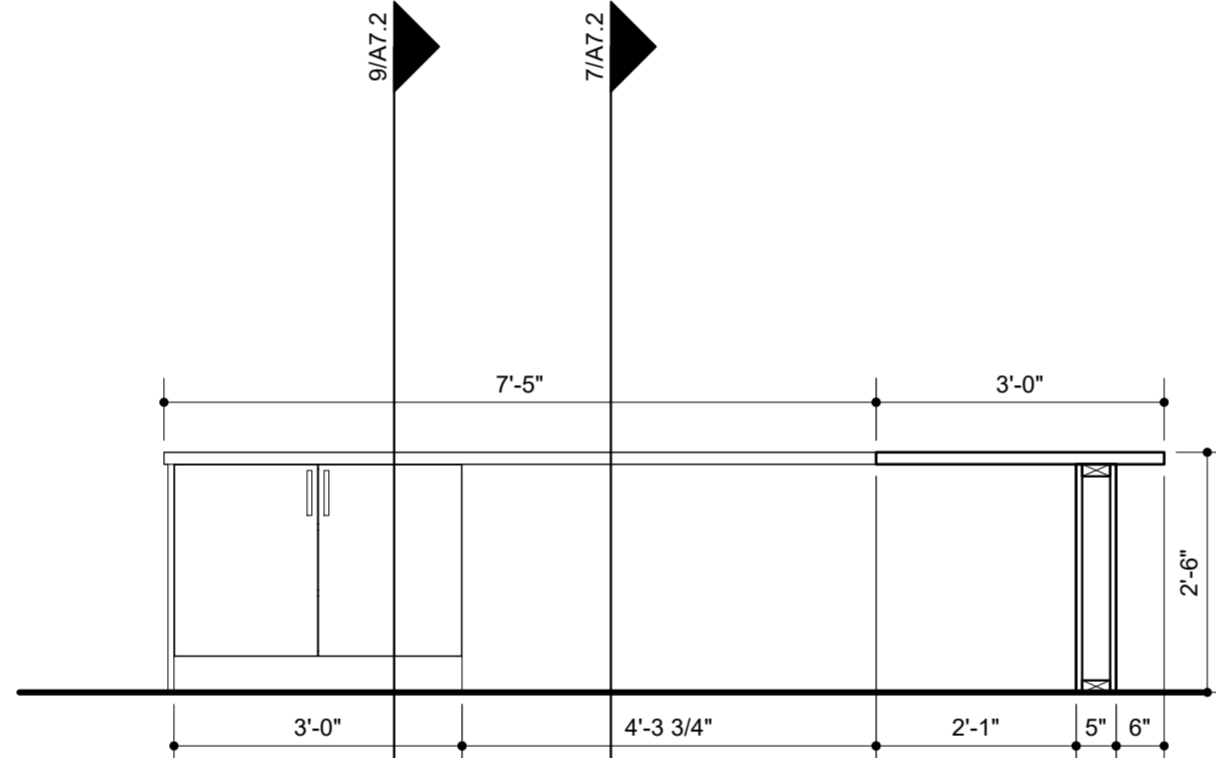
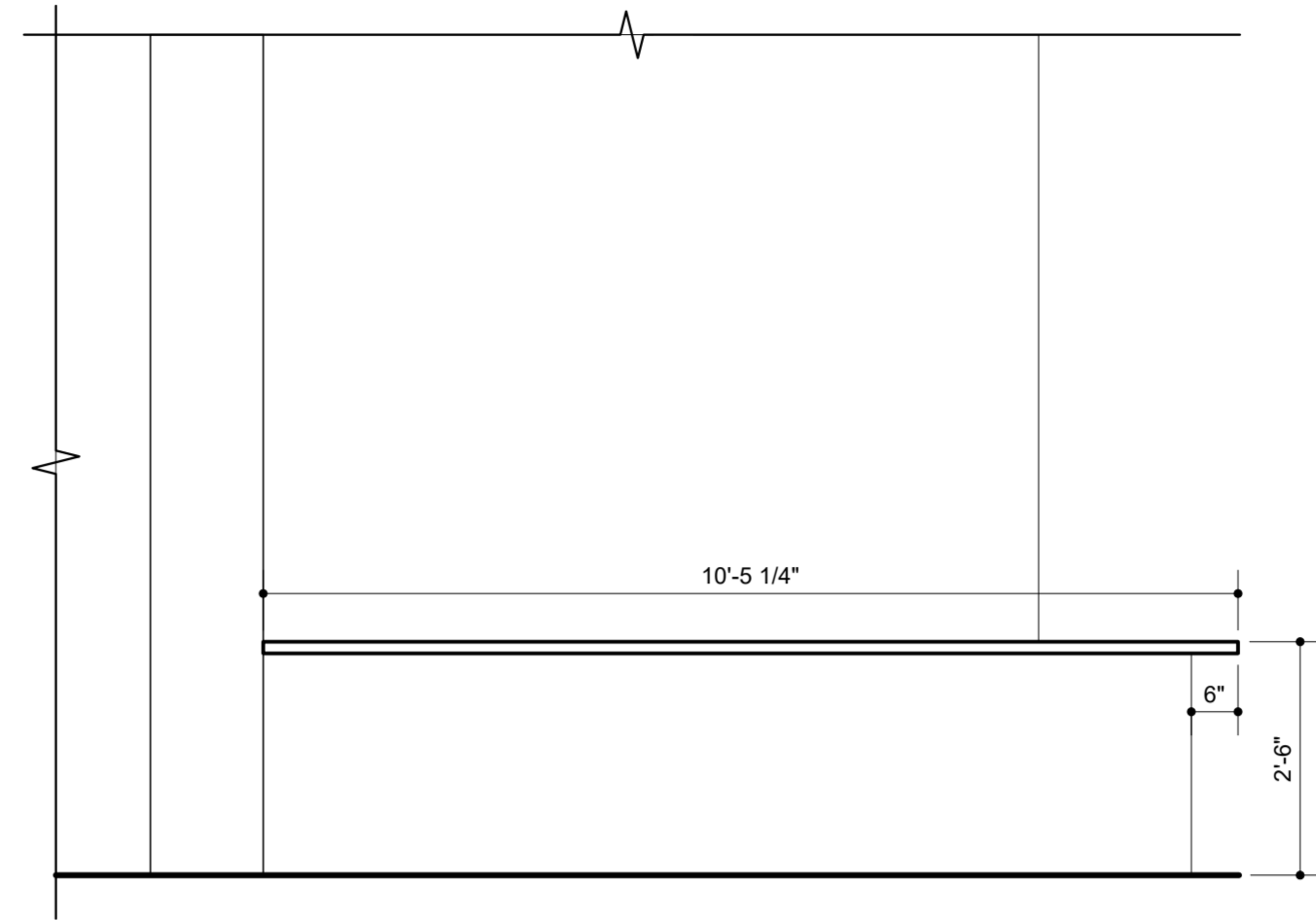
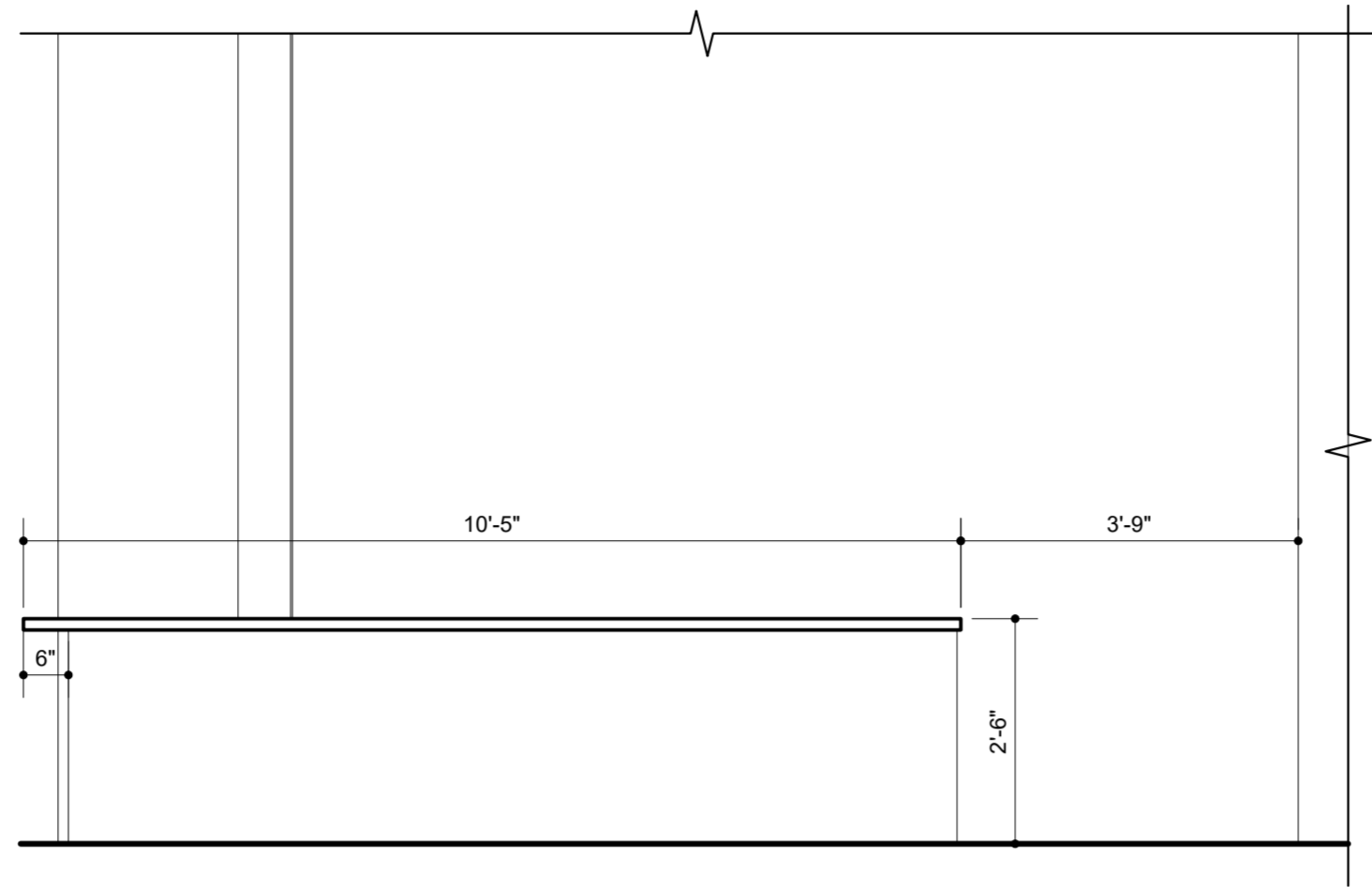
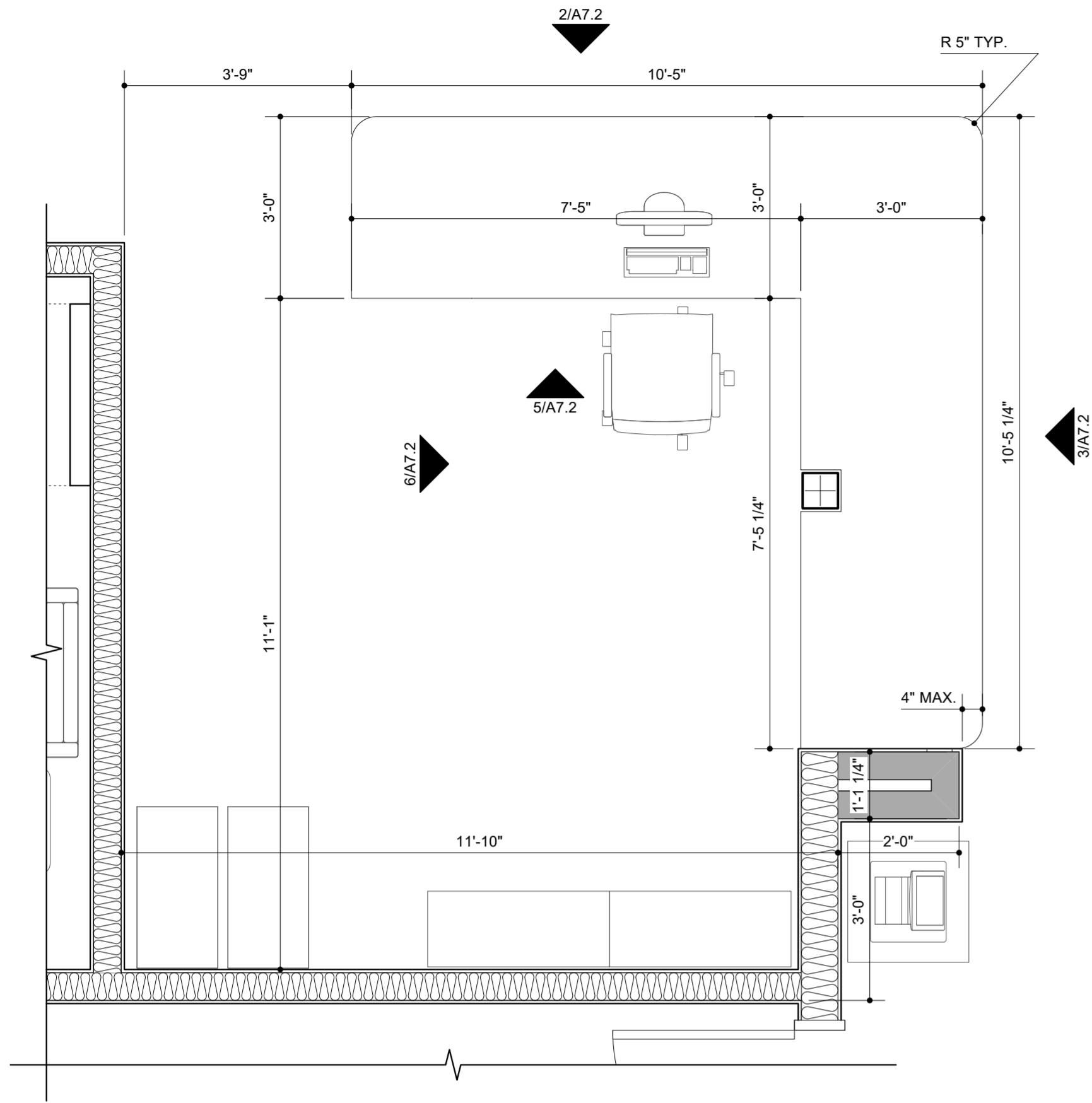
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**Main Circulation Desk
Casework Sections**

Rev.	Date	Notes

A7.1



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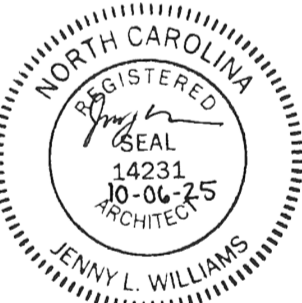
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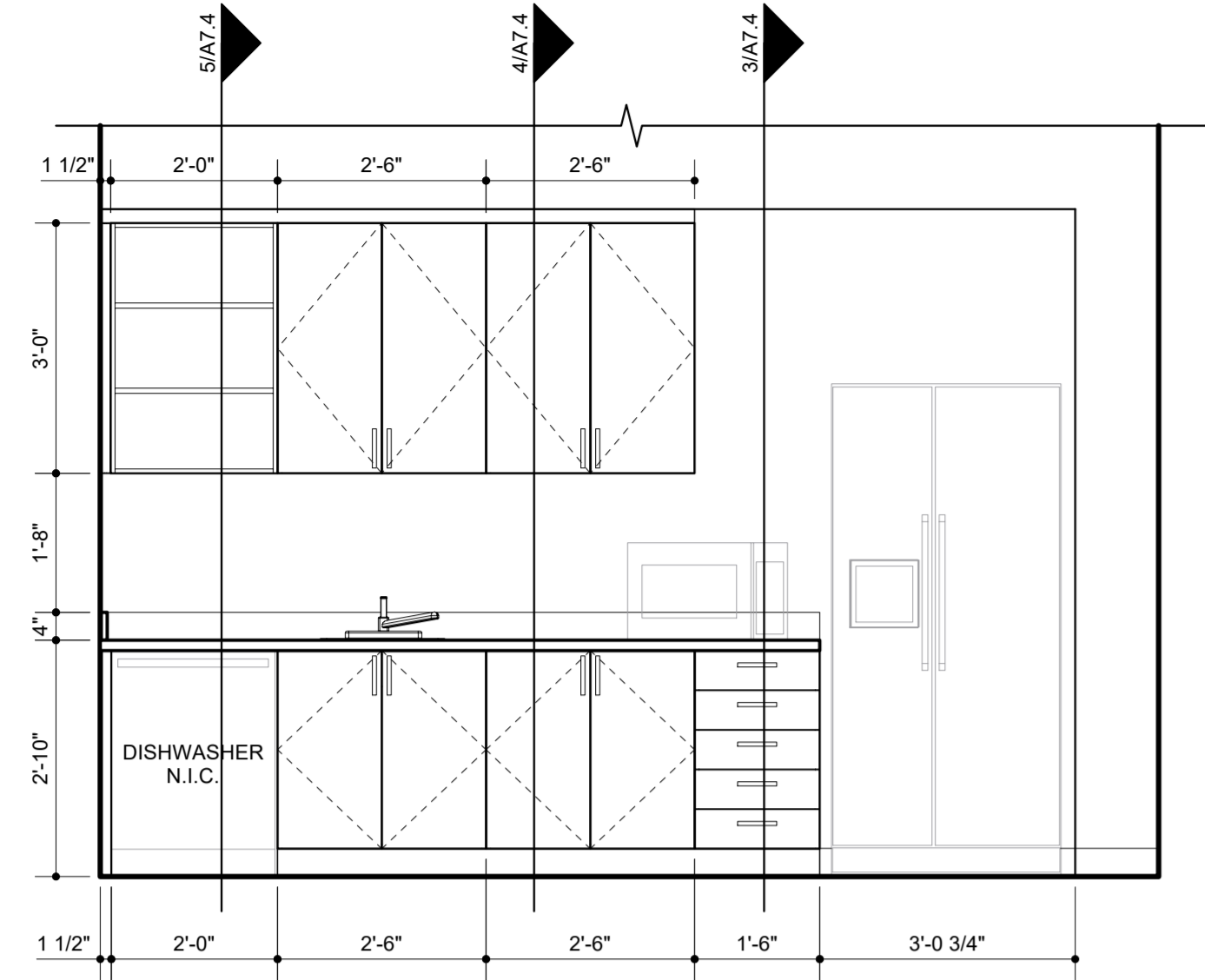
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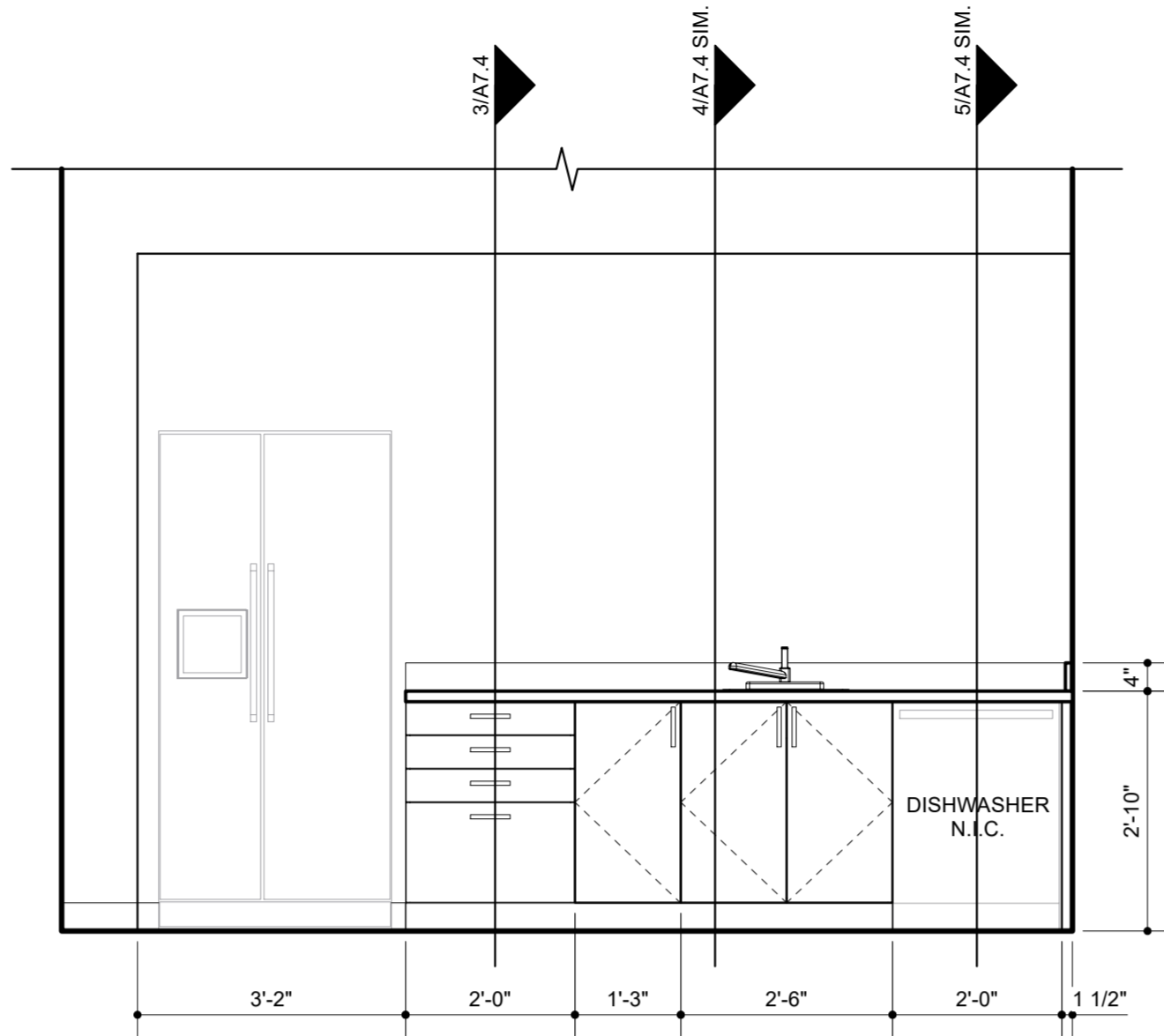
Children's Circulation
Desk Casework

Rev.	Date	Notes

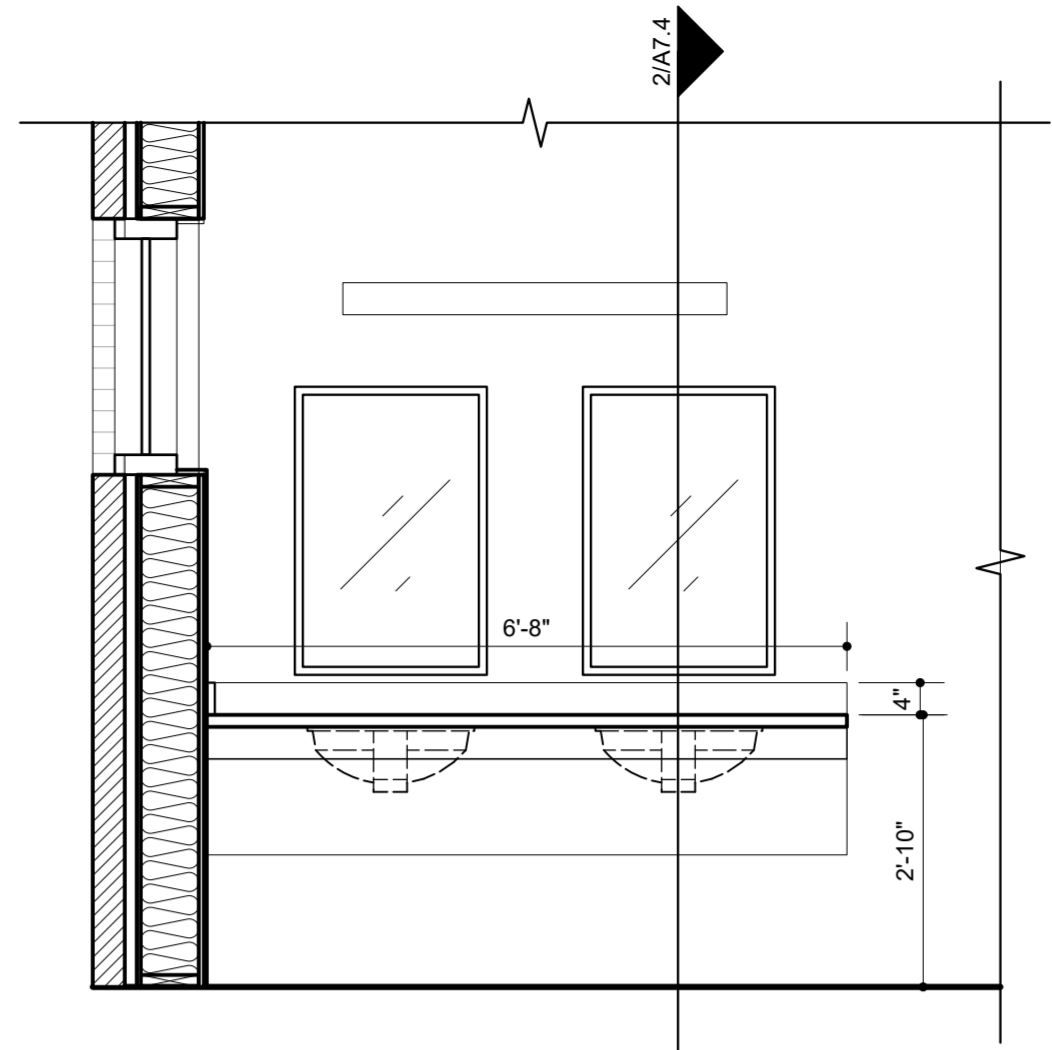
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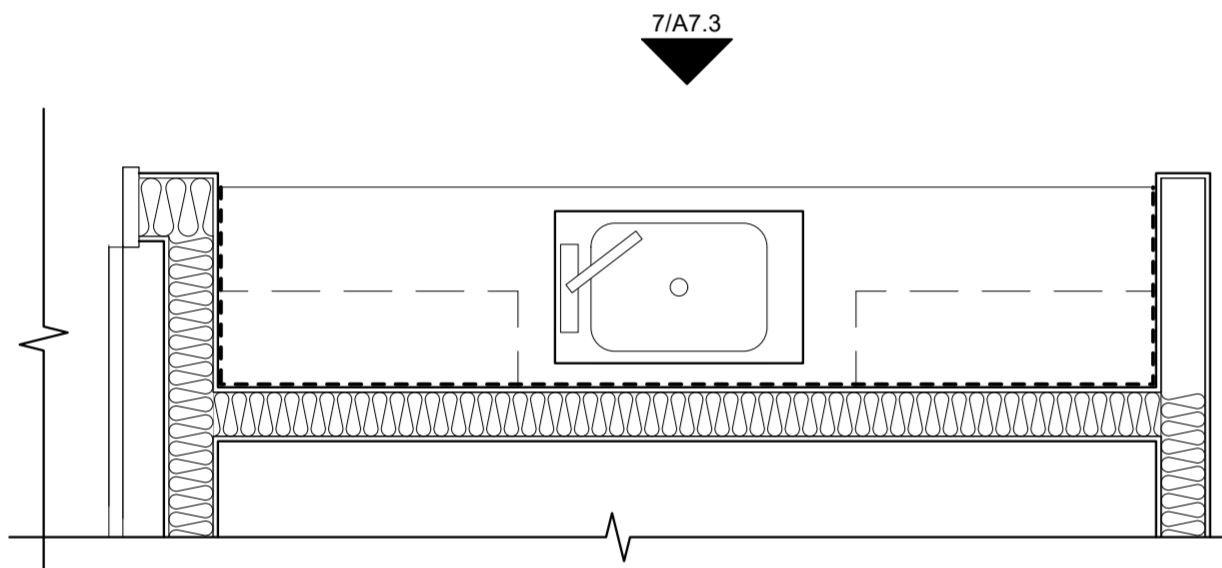
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A7.3 Scale: 1/2" = 1'-0"



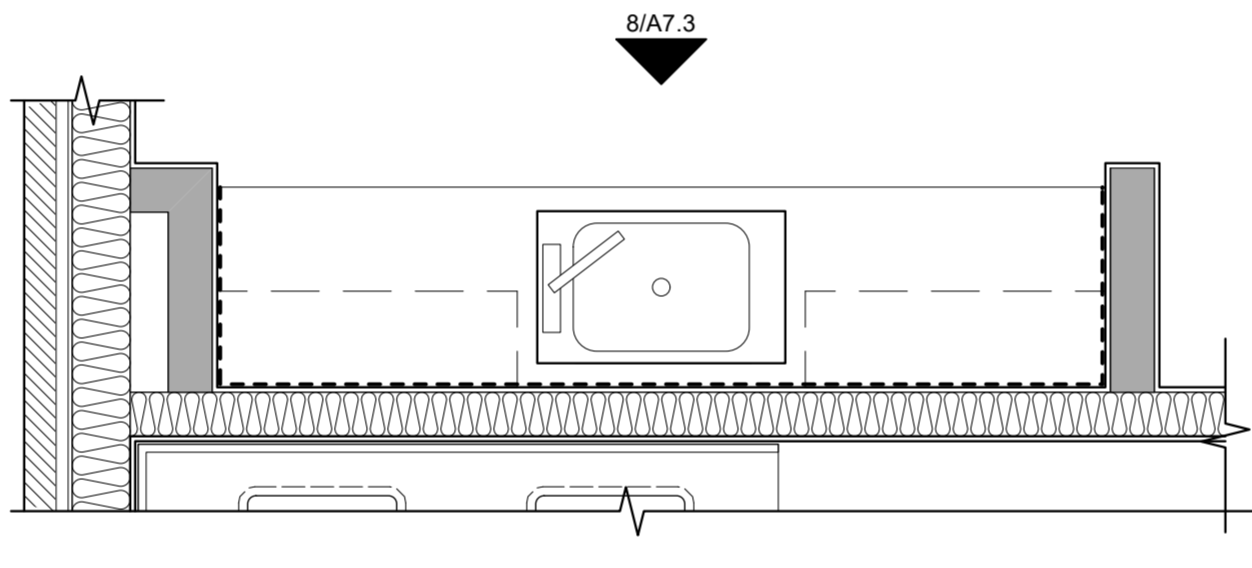
2 Kitchenette 108 Casework Elevation
A7.3 Scale: 1/2" = 1'-0"



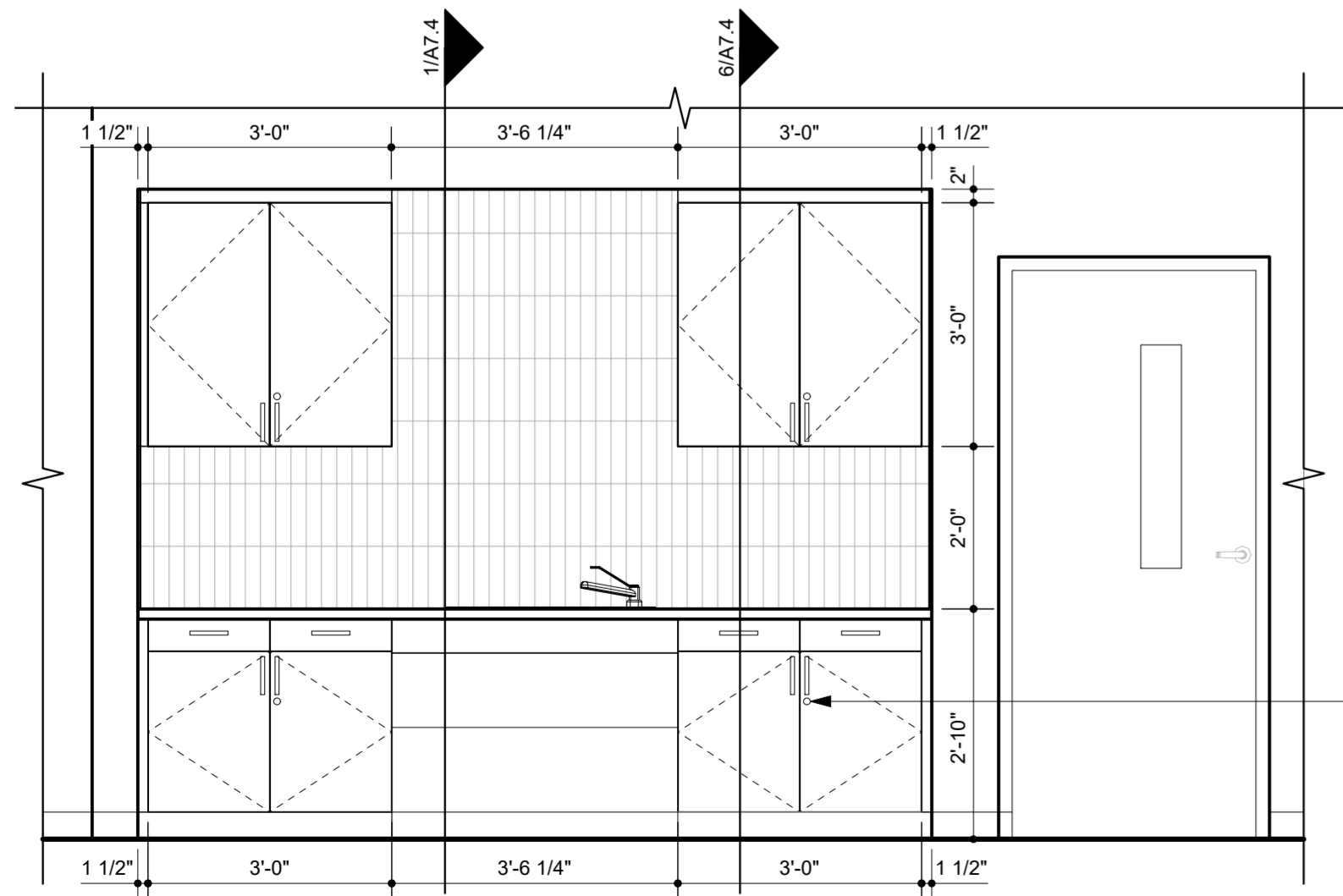
3 Typical Group Restroom Casework Elevation
A7.3 Scale: 1/2" = 1'-0"



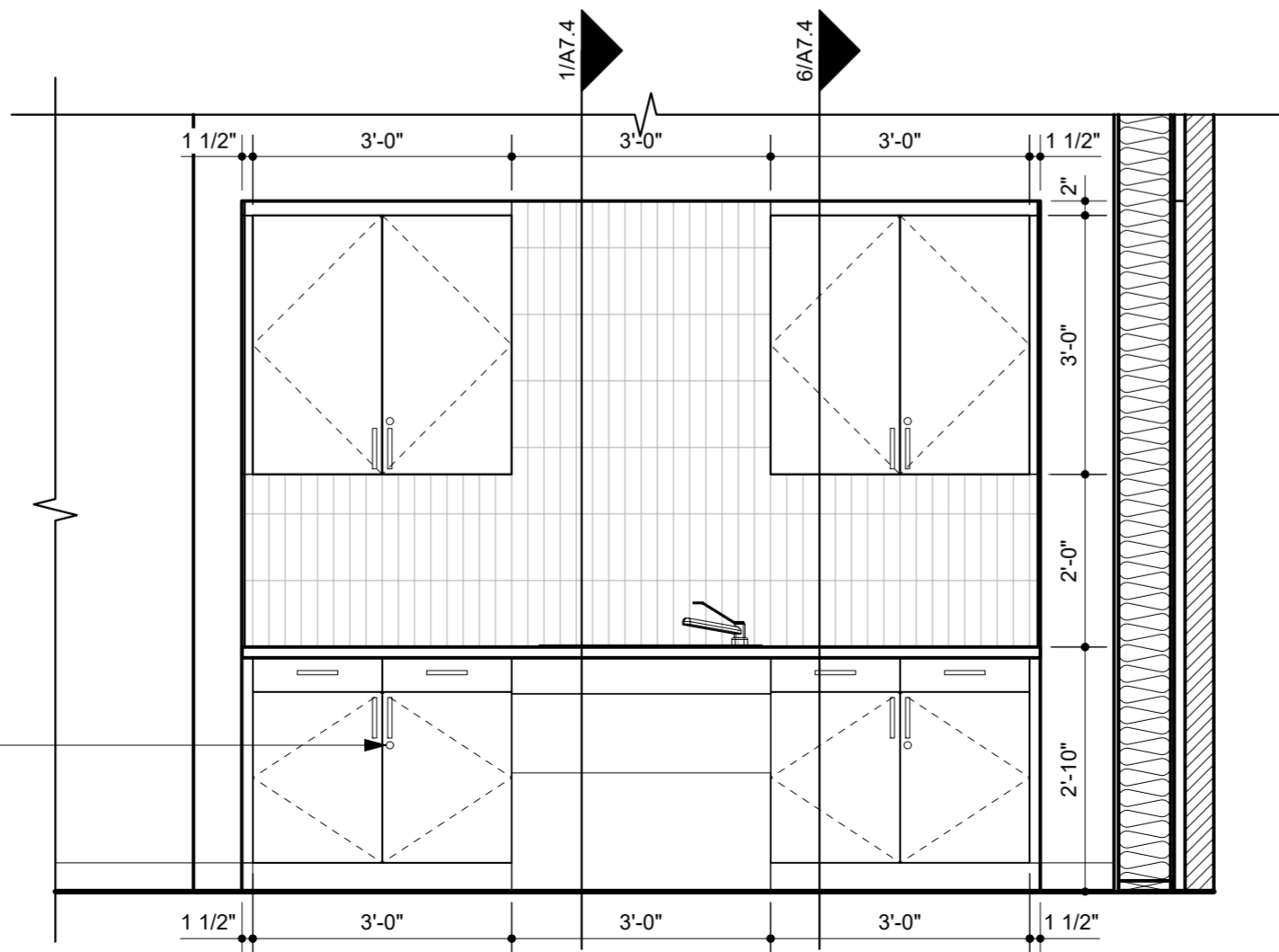
4 Multipurpose Room 110 Casework Enlarged Plan
A7.3 Scale: 1/2" = 1'-0"



5 Meeting Room 106 Casework Enlarged Plan
A7.3 Scale: 1/2" = 1'-0"

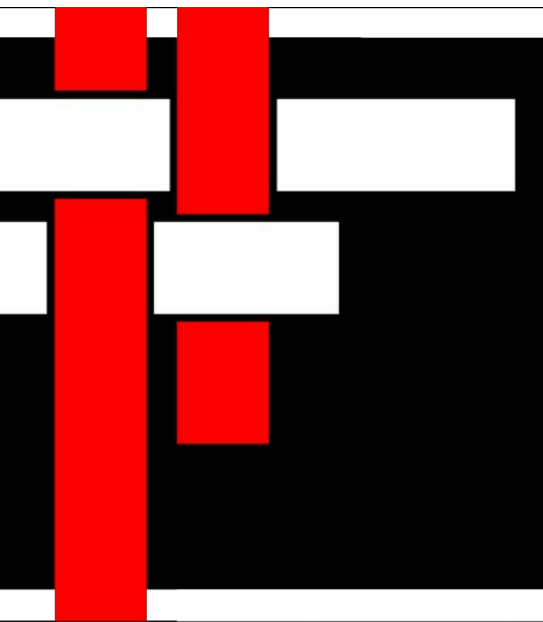


7 Multipurpose Room 110 Casework Elevation
A7.3 Scale: 1/2" = 1'-0"



8 Meeting Room 106 Casework Elevation
A7.3 Scale: 1/2" = 1'-0"

CABINET LOCK, TYP.

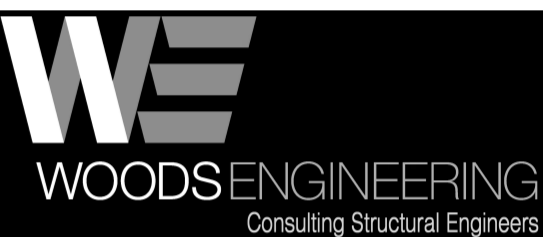


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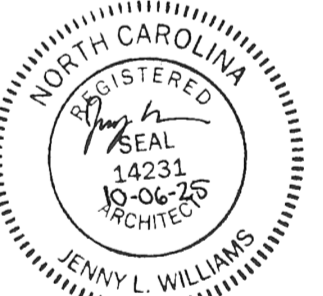


CHEATHAM AND ASSOCIATES, P.A.
CONSULTING ENGINEERS
3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
FAX: (910) 452-4211
OFFICE@CHEATHAMPA.COM
WWW.CHEATHAMPA.COM
NC LICENSE# C-1073



254 North Front Street Suite 201
Wilmington, NC 28401
Phone: 910.343.8007
Fax: 910.343.8088
www.woodseng.com

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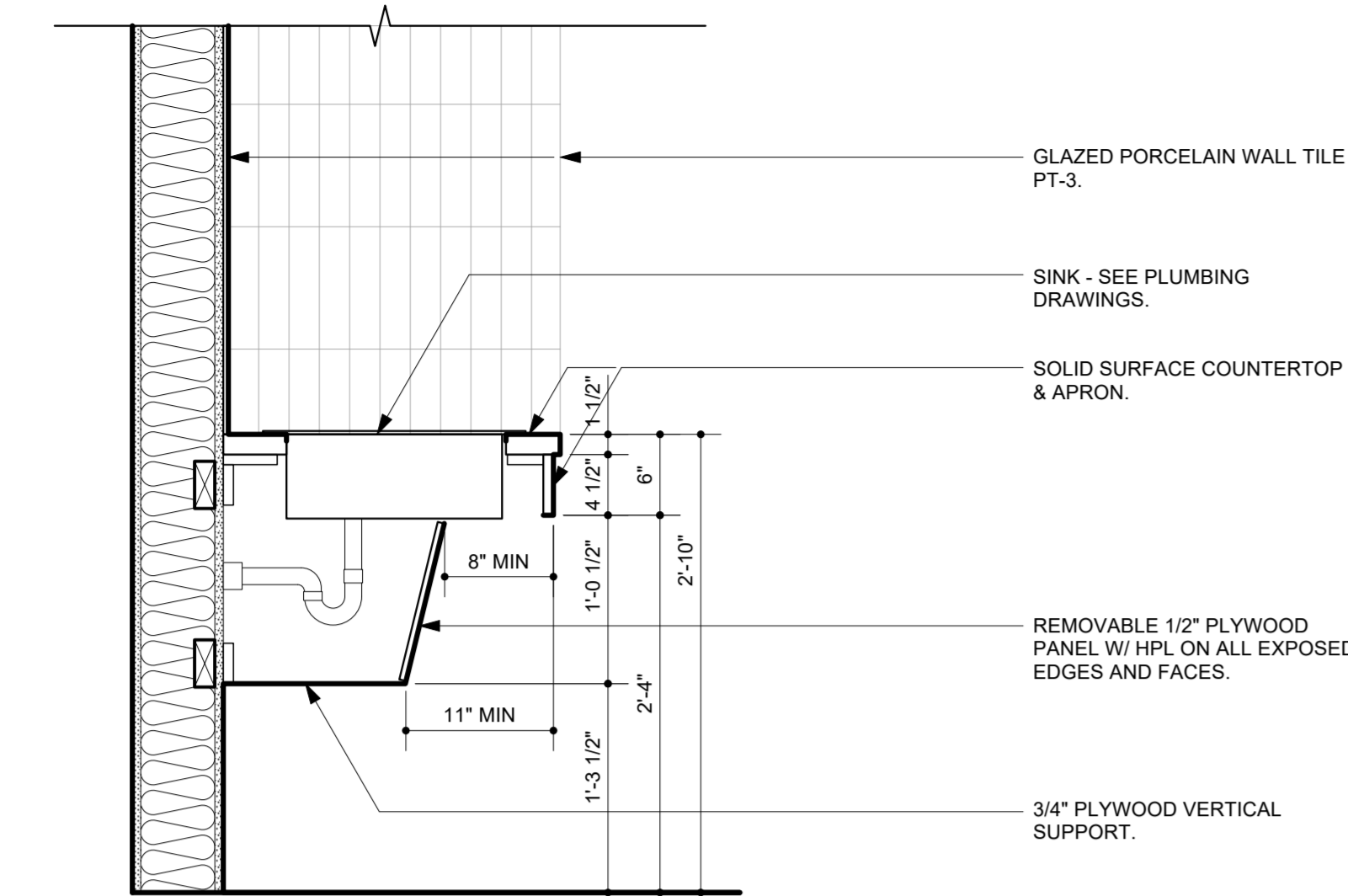
Construction Drawings

Issue Date: October 6, 2025

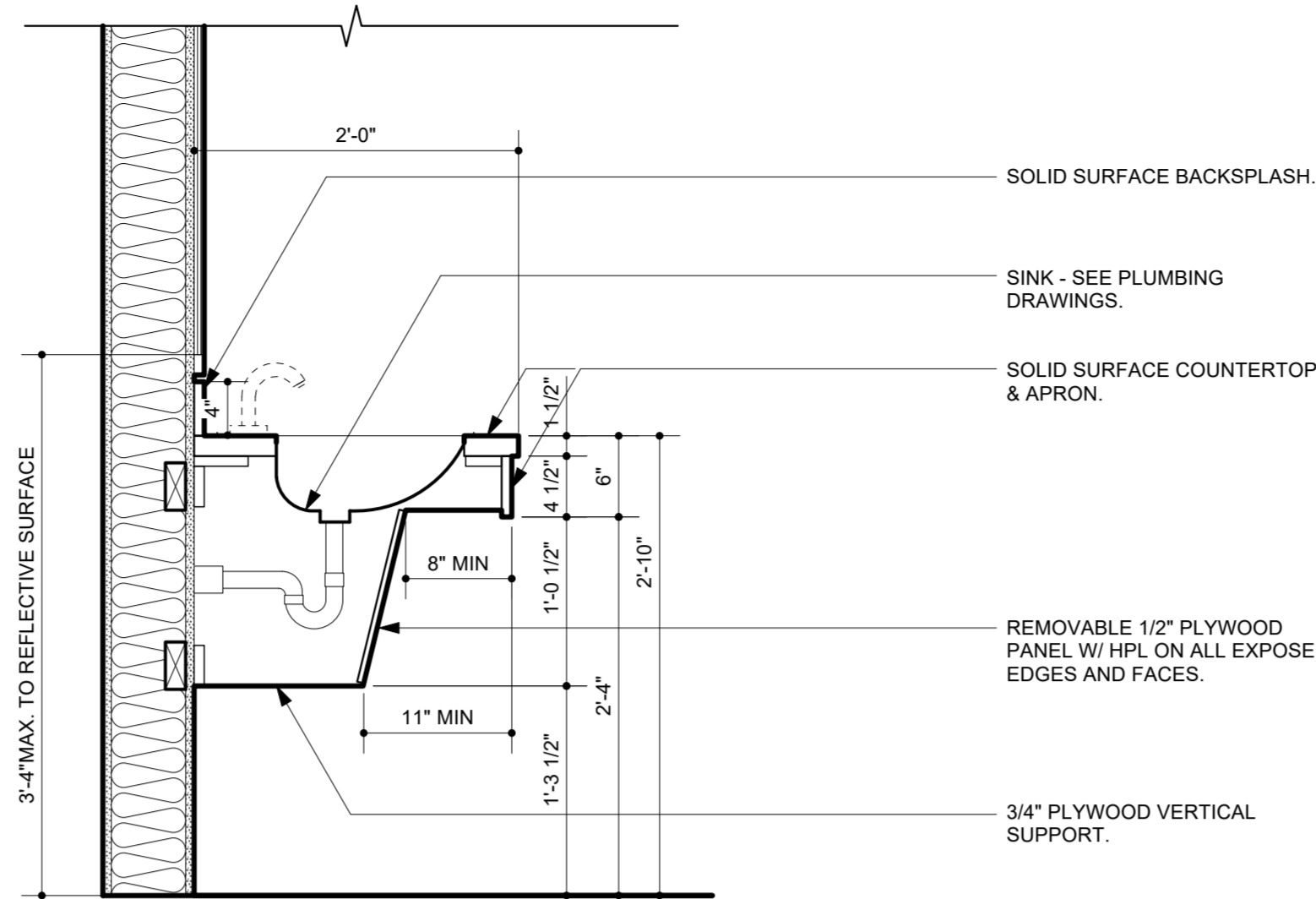
Casework Elevations &
Sections

Rev.	Date	Notes

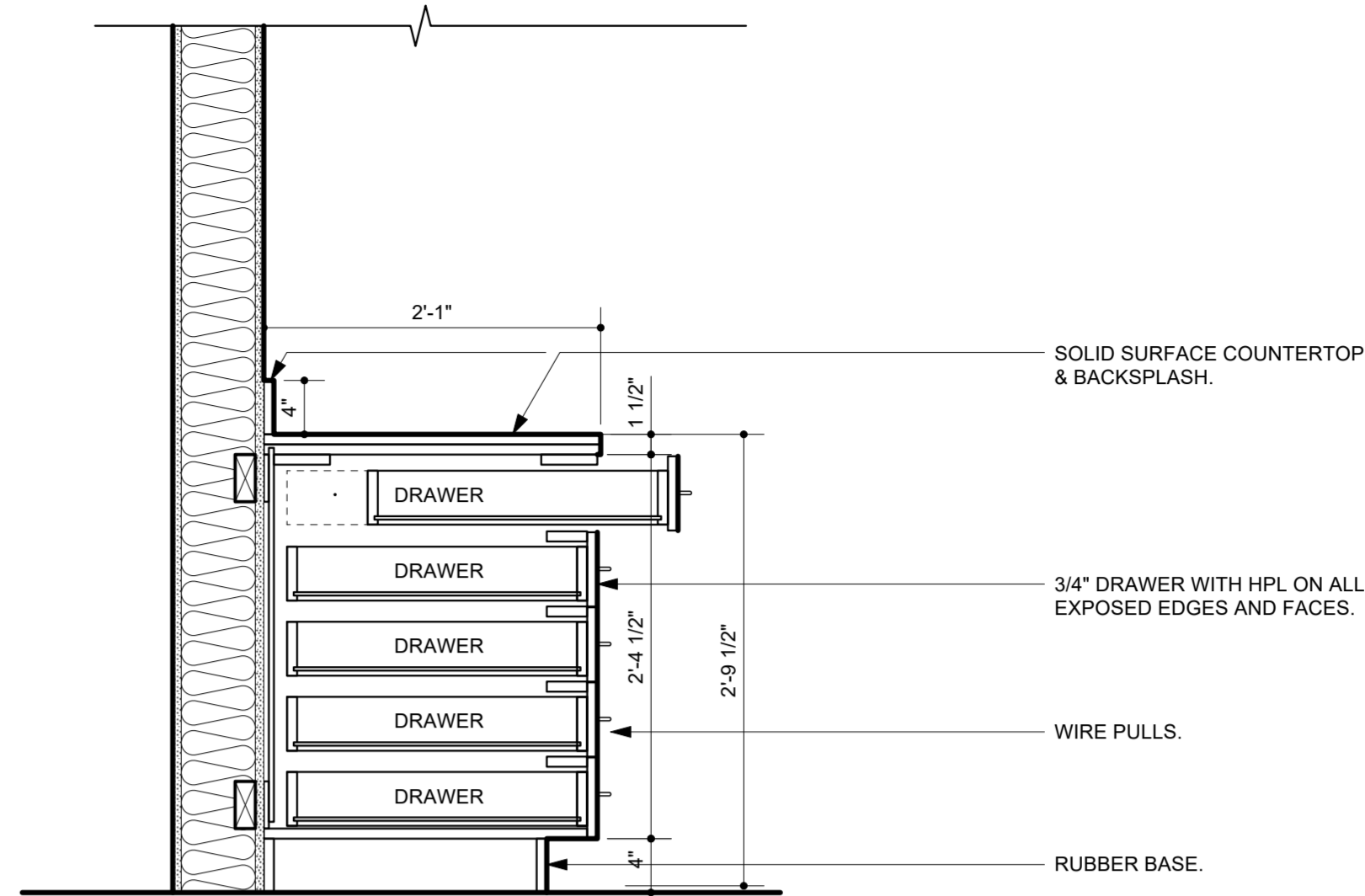
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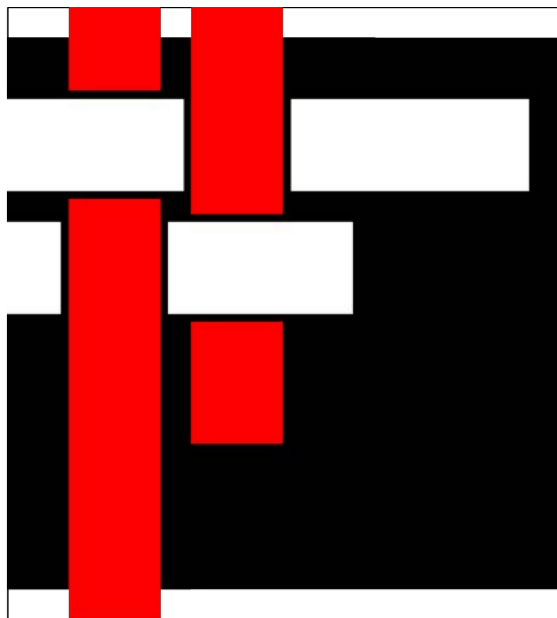
1 Casework Section
A7.4 Scale: 1" = 1'-0"



2 Casework Section
A7.4 Scale: 1" = 1'-0"



3 Casework Section
A7.4 Scale: 1" = 1'-0"



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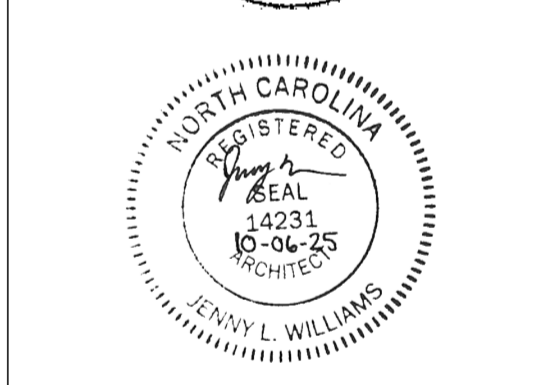
CLH DESIGN, P.A.
4401 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 318-6716
Fax: (919) 318-7516
LA C-105
PE C-1585

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CONSULTING ENGINEERS
3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
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OFFICE@CHEATHAMPA.COM
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NC LICENSE# C-1073

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WOODS ENGINEERING
Consulting Structural Engineers

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Wilmington, NC 28401
Phone: 910.343.8007
Fax: 910.343.8088
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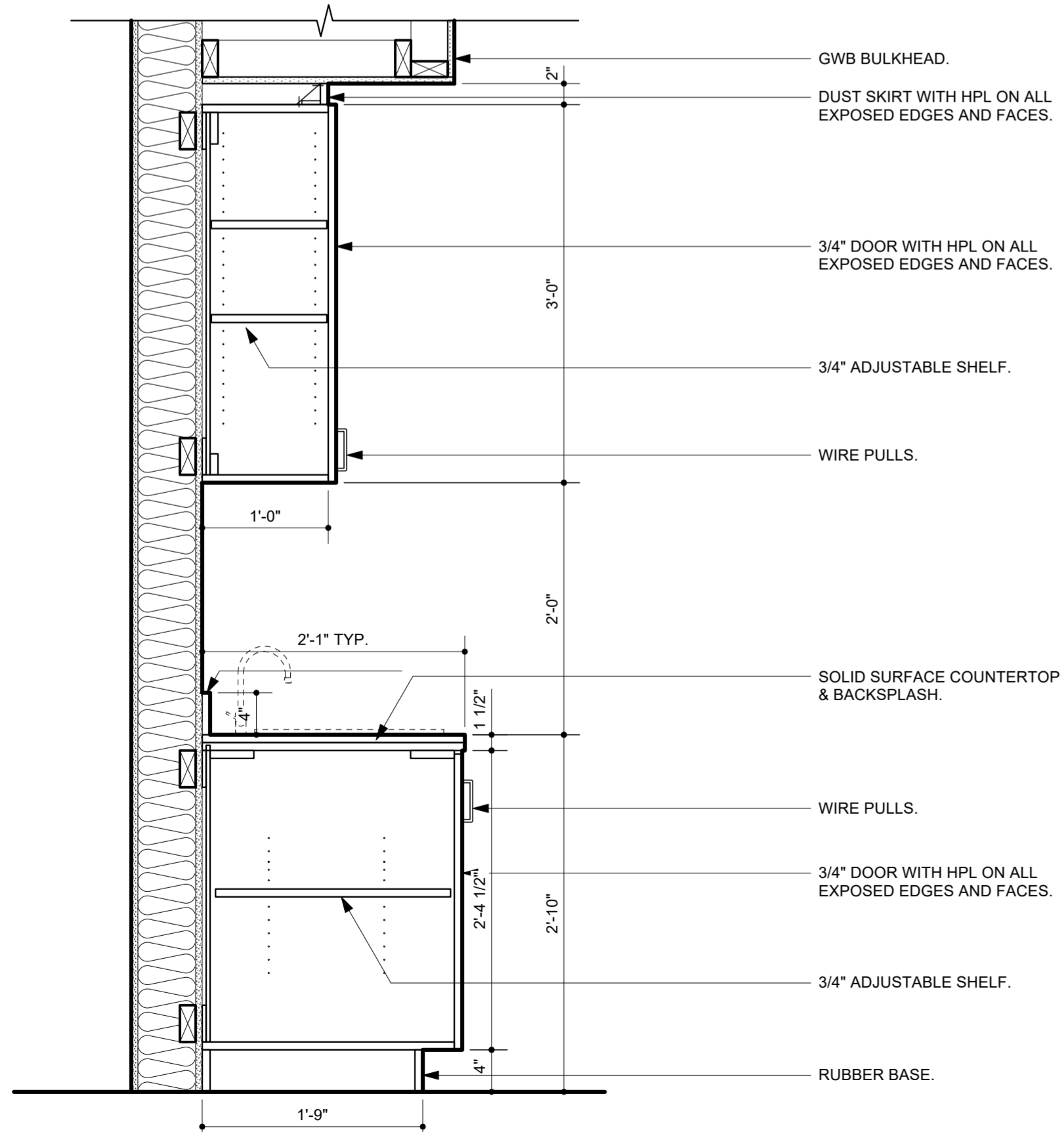
Construction Drawings

Issue Date: October 6, 2025

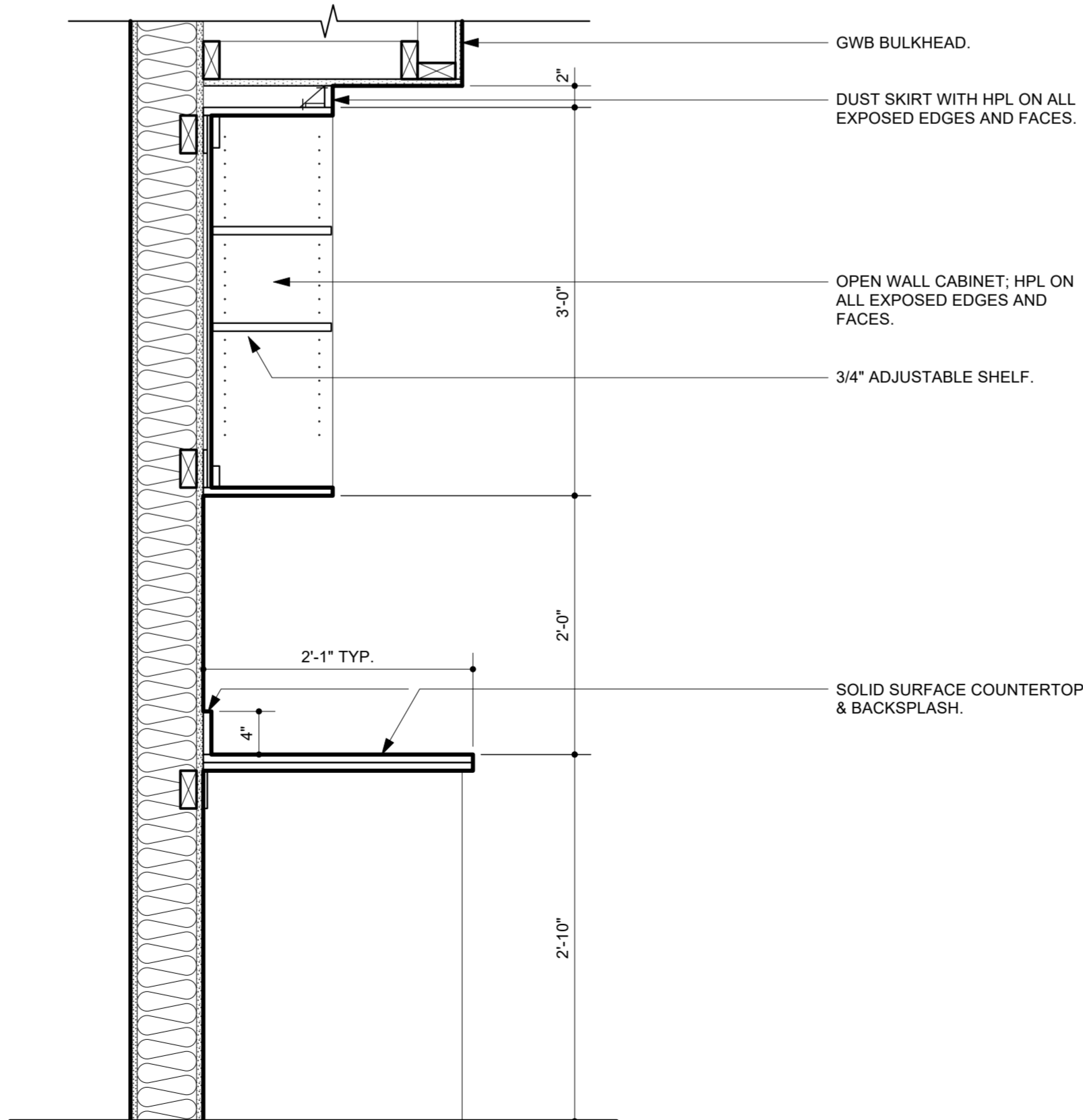
Casework Sections

Rev.	Date	Notes

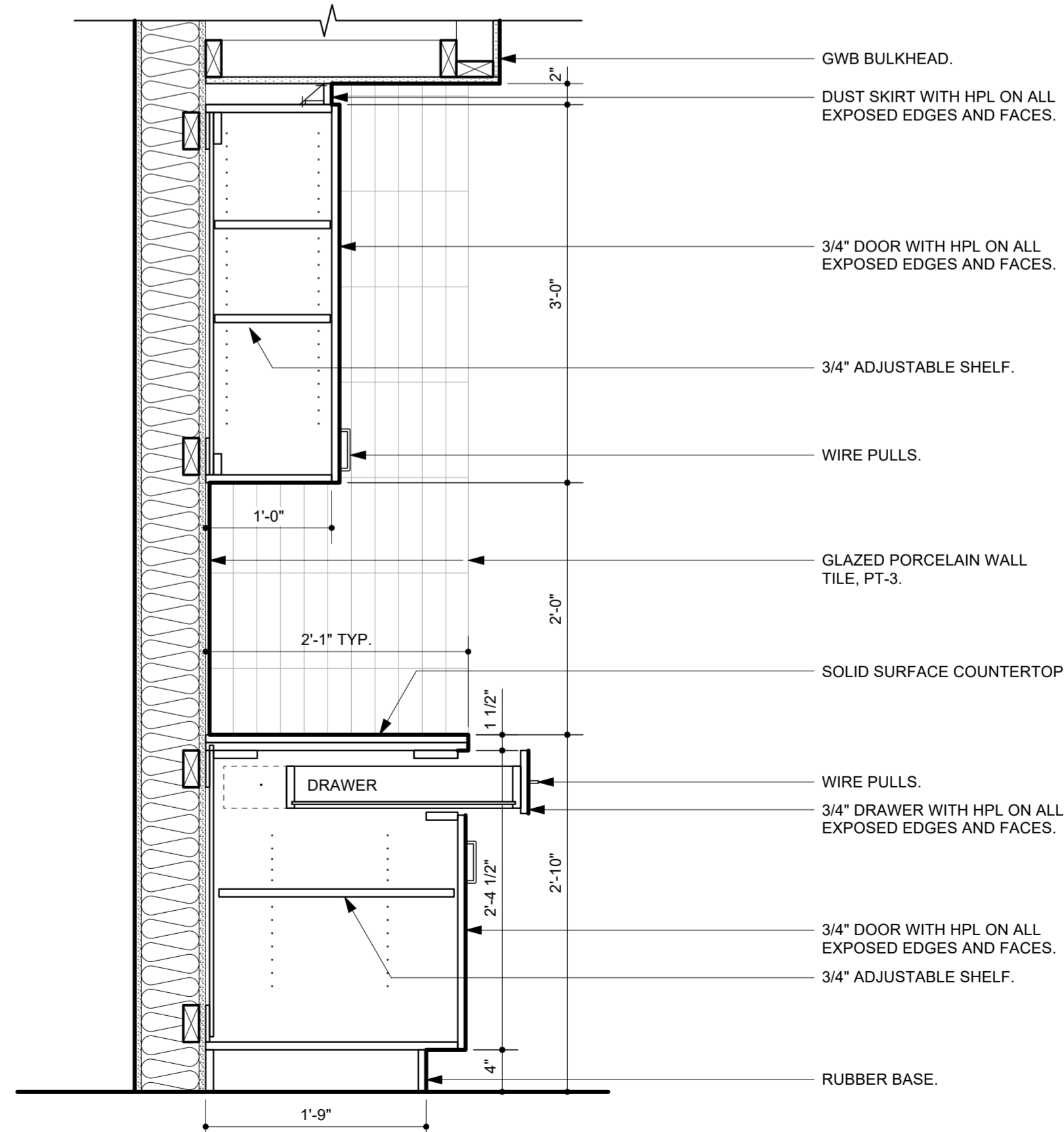
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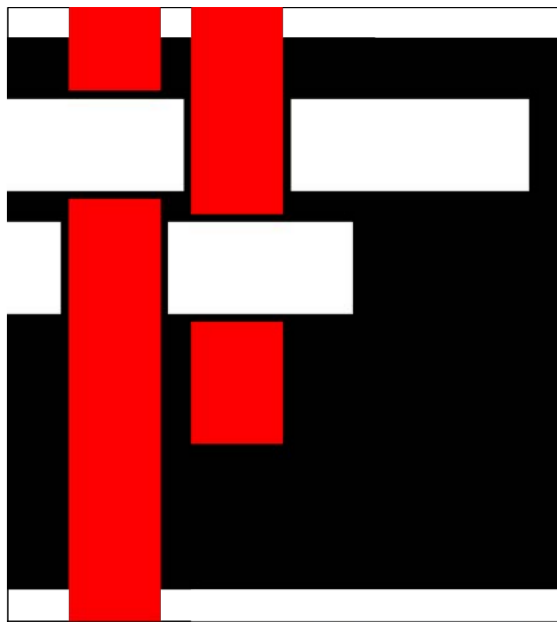
4 Casework Section
A7.4 Scale: 1" = 1'-0"



5 Casework Section
A7.4 Scale: 1" = 1'-0"



6 Casework Section
A7.4 Scale: 1" = 1'-0"



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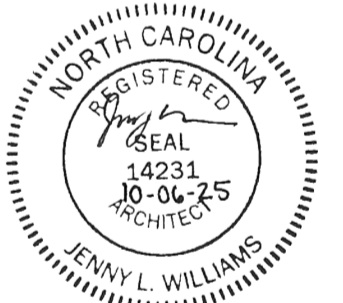
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4401 Regency Forest Drive
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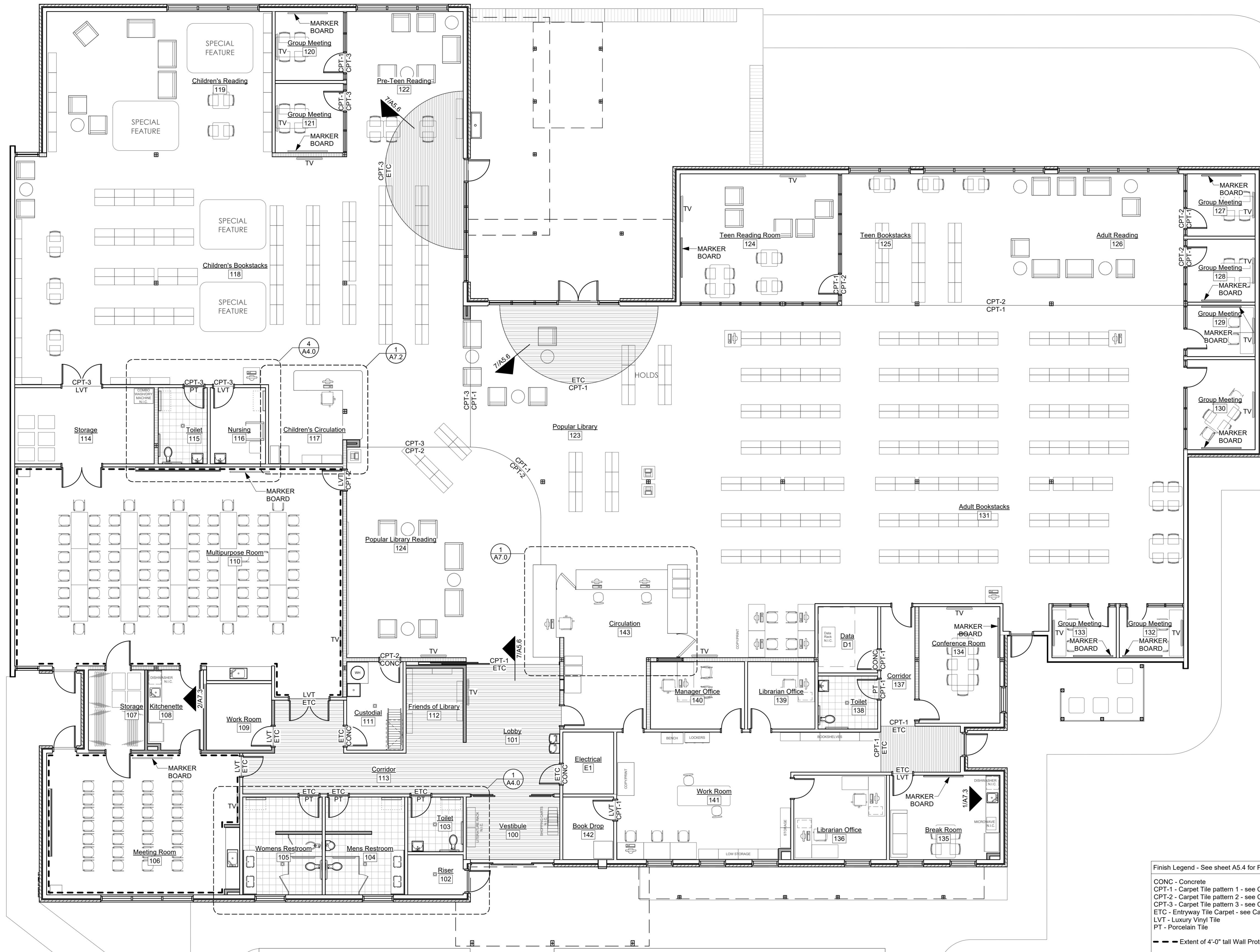
Construction Drawings

Issue Date: October 6, 2025

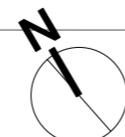
Finish Floor Plan

Rev.	Date	Notes

A7.5



1
A7.5 **Finish Floor Plan**
Scale: 1/8" = 1'-0"



Finish Legend - See sheet A5.4 for Floor Transition Details
CONC - Concrete
CPT-1 - Carpet Tile pattern 1 - see Carpet Tile spec
CPT-2 - Carpet Tile pattern 2 - see Carpet Tile spec
CPT-3 - Carpet Tile pattern 3 - see Carpet Tile spec
ETC - Entryway Tile Carpet - see Carpet Tile spec
LVT - Luxury Vinyl Tile
PT - Porcelain Tile
--- Extent of 4'-0" tall Wall Protection

Notes
1. Provide blocking at TV locations for TV wall mount; coordinate locations with Owner.
2. Coordinate final locations of marker boards with Owner.

- 1.0 CODES AND STANDARDS:
- 1.1 "2018 North Carolina State Building Code" and "International Building Code", 2015.
- 1.2 "Minimum Design Loads for Buildings and other Structures" SEI/ASCE 7-16.
- 1.3 "Building Code Requirements for Structural Concrete (ACI 318-14)" American Concrete Institute 2014.
- 1.4 "Manual of Standard Practice", Concrete Reinforcing Steel Institute, latest edition.
- 1.5 "National Design Specification for Wood Construction with 2015 NDS Supplement," ANSI/AWC NDS-2015.
- 2.0 DESIGN LOADS:
Project Located in: City of Hampstead, County of Pender, State of North Carolina.
- 2.1 Gravity Loads: (Reduced where allowed)

GRAVITY LOADS		
Location	Uniform (psf)	Concentrated (lbs) (Over 2.5x2.5)
Roof Loads:		
Dead Load	20	
Live Load	20	300
Floor Loads:		
Dead Load	50	
Live Load	100	

- 2.2 Snow Loads per Referenced Code.

Pg = 10 psf
I = 1.1
Ce = 0.9
Ct = 1.0

- 2.3 Risk Category = III

- 2.4 Wind Loads per Referenced Code.

Basic Design Wind Speed:
3-second Gust PER ASCE
V = 153 mph
Exposure "C"

Main Wind Force Resisting System:
Building is enclosed & Internal Pressure coefficient (GCpi) = +0.18 & -0.18
Topographic Factor Kzt = 1.0
Wind Directionality Factor, Kd = 0.85

CALCULATED WIND BASE SHEAR (VULT FOR MWFRS)		
Unit Name	Vx (k)	Vy (k)
Main Building	95	134

- Components & Cladding

Components and Cladding Wind Pressure (psf)									
Walls	Area < 100R2	Area < 200R2	Area < 500R2	Area < 1000R2	Area < 5000R2				
Zone 4	51.4	-55.7	49.2	-53.6	45.9	-50.3	43.6	-48.1	38.3
Zone 5	51.4	-68.8	49.2	-64.5	45.9	-57.9	43.6	-53.6	38.3
Roof	Area < 100R2	Area < 200R2	Area < 500R2	Area < 1000R2	Area < 5000R2				
Zone 1'	23.2	-52.3	21.3	-52.3	19.4	-52.3	18.4	-52.3	18.4
Zone 1	23.2	-91.0	21.3	-86.1	19.4	-76.5	18.4	-71.6	18.4
Zone 2	23.2	-120.0	21.3	-112.8	19.4	-103.1	18.4	-93.4	18.4
Zone 3	23.2	-163.6	21.3	-149.0	19.4	-127.3	18.4	-112.8	18.4

- Notes:
- Areas noted are effective wind areas as per ASCE 7, 26.2 definitions.
 - See figures this sheet for Zone locations.
 - Plus and minus signs signify pressures acting toward and away from surfaces, respectively.
 - Design pressures shown in table are strength design wind pressures. Allowable stress design wind pressures may be calculated by factoring the pressures by 0.6.
 - Design pressures for effective wind areas between those noted in schedule may be interpolated.
 - Tributary area = greater of LxW or LxL/3.
 - Deflections may be calculated based on 42% of these loads.

- 2.5 Seismic Loads per Referenced Code.

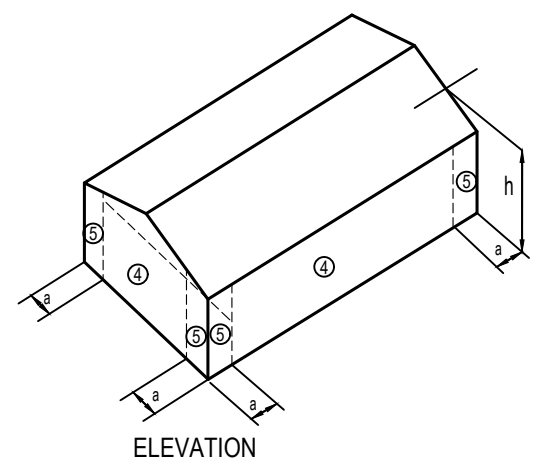
Risk Category = III
Site class = "D" (Per Geotechnical Report)
Spectral Response Coefficients:
SS = 0.137g
S1 = 0.062g
SDS = 0.146g
SD1 = 0.14
Cs = 0.0225

Seismic Design Category = "B"
Seismic Importance Factor = 1.25
Basic Seismic - Force - Resisting System
Building Frame System - Wood Walls Sheathed with wood structural panels rated for Shear Resistance
RX=RY=6.5, QX=QY=3.0, CDX=CDY=4.0
Design Base Shear Vb = 13k Vy = 13k
Building Height Limit = NL
Analysis Procedure - per Referenced Code.
Equivalent Lateral Force Procedure

- 2.6 Guardrail designed per Referenced Code, Chapter 16 IRC

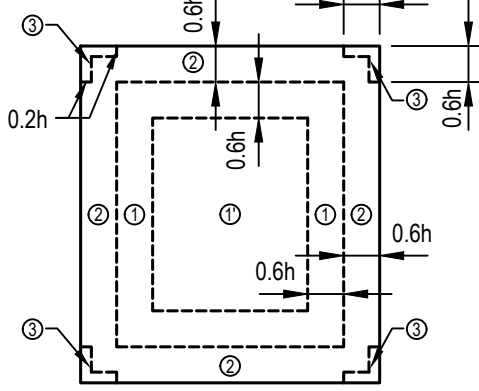
Guardrail:
Uniform load = 50 ptf, any direction
Concentrated load = 200 lbs, any direction
Intermediate Rail: (all those except handrail)

- 2.7 Flood Loads:
Project is not located in a flood zone.



COMPONENT & CLADDING WALL ZONES

a = 14ft



COMPONENT & CLADDING FLAT ROOF ZONES

h = 25ft "mean roof height"

- 3.0 FOUNDATIONS:

- 3.1 Foundation design is based on geotechnical report # K6245099 by TERRACON Hampstead, NC dated December 13, 2024. This report is available in the project manual. The recommendations contained in this report are herein made part of the requirements of these contract documents.
- 3.2 Footings shall bear on strata capable of sustaining a minimum bearing pressure of 2000 psf.
- 3.3 Top of footing (T/FTG) elevations are shown on the drawings or are to be determined by the Contractor in the field in accordance with the guidelines set forth in the drawings.
- 3.4 Bottom of exterior footings shall bear at a minimum depth of 1'-0" below final grade per Geotechnical Report
- 3.5 Testing and Inspection:
- All areas to have slabs on grade shall be proof rolled in accordance with and under observation of the Geotechnical Engineer and approved prior to preparation for concrete placement.
 - All foundation bearing strata shall be inspected and approved by the Geotechnical Engineer prior to any concrete placement.
 - Geotechnical Engineer shall be the sole judge as to suitability of all foundation and/or slab bearing strata.
 - Footing bearing elevations shall be adjusted in the field as required to meet the design bearing pressures by additional excavation or compaction and/or backfilling or by other means acceptable to the Geotechnical Engineer.

- 3.6 Undercutting to remove existing fill beneath footings and slab shall be performed at the direction of the Geotechnical Engineer.

- 3.7 Engineered Fill: All fill material shall be selected in accordance with the Geotechnical Report Material shall be a clean, low plastic soil with a plasticity index less than 30 (less than 15 is preferred), liquid limit less than 50, and unit weight of 120 pcf (+ 5 pcf)

- 3.8 Compaction: All fill shall be placed in loose lifts not exceeding 8 inches in thickness and compacted to a minimum of 96 percent Standard Proctor (ASTM D-698) except that the top 12 inches shall be compacted to a minimum of 98 percent Standard Proctor. Moisture shall be controlled to within 3 percent above or below optimum content.

- 3.9 Remove all topsoil and organic materials. The stripping should extend at least 10' beyond the proposed construction limits.

- 3.10 Contractor shall review all construction considerations as outlined in the Geotechnical report and bid accordingly.

- 4.0 CONCRETE:

- 4.1 Concrete Strength:
All concrete shall be in accordance with the American Concrete Institute (ACI) 301 and 318. Concrete Subcontractor shall be ACI Certified, submit documentation of current certification.

- 4.2 Concrete shall have a 28 day compressive strength and density as follows:

CONCRETE STRENGTH SCHEDULE			
Location	Concrete Strength	Density	Comments
Footings, Grade Beams	3,000 psi	±145 pcf	-
Slab-on-grade	See Schedule S3 sheets	±145 pcf	-
Piers	3,000 psi	±145 pcf	-

- 4.3 Concrete Mix Designs:
- Submittals: Submit mix designs of each proposed concrete mix not less than 15 days prior to the start of work.
 - Mix designs, including water, cement ratios and slump, shall be prepared in accordance with ACI 301-05, Section 4. Cement shall conform to ASTM C 150 Type 1 or at contractor's option, ASTM C 595 Type I where fly ash is permitted. Normal weight aggregate shall conform to ASTM C 33 and light weight aggregate shall conform to ASTM C 330. No admixtures containing calcium chloride shall be permitted in any concrete.
 - Aggregate size shall be #67 stone for supported slabs or other formed concrete elements; #57 stone for slabs on grade and footings or other concrete elements formed from and poured against earth; #89 stone for masonry grout.
 - Water reducing admixture shall be used in all concrete.
 - Air entraining admixture in accordance with ACI 301 shall be used in all concrete exposed freezing and thawing during construction or service conditions.
 - Concrete subjected to freezing/thawing shall have a maximum water/cement ratio of 0.45 and shall contain the amount of air entraining agent specified in ACI 301-05 Section 4.
 - All columns and walls shall have superplasticizer admixture

- 4.4 Curing:
See specifications for curing method options and apply within two (2) hours after completion of finishing to all concrete flatwork and walls, U.N.O., other than footings and grade beams.

- 4.5 Use a non-corrosive, non-chloride accelerating admixture in concrete exposed to temperatures below 40°. Uniformly heat the water and aggregates to a temperature of not less than 50° Place and cure concrete in accordance with ACI 306.

- 4.6 When hot weather conditions exist, place and cure concrete in accordance with ACI 301. Cool ingredients before mixing to maintain concrete temp. at time of placement below 90°.

- 4.7 Reinforcing in all abutting concrete, including footings shall be continuous through or around all corners or intersections. Dowels or splices shall be equal in size and spacing to the reinforcing in the abutting members.

- 4.8 Refer to architectural drawings for door and window openings, drips, reglets, washes, masonry anchors, brick ledge elevations, slab depressions and miscellaneous embedded plates, bolts, anchors, angles, etc.

- 4.9 Refer to plumbing, mechanical and electrical drawings for underfloor, perimeter and other drains and for sleeves, outlet boxes, conduit, anchors, etc. The various trades are responsible for their items.

- 4.10 Base plates, anchor rods, support angles and other steel exposed to earth or granular fill shall be covered with a minimum of 3" of concrete.

- 4.11 Fill slabs, not shown on the structural drawings and all exterior slabs to be broom finished, shall be reinforced with a minimum of 6 x 6 x W2.0 x W2.0 WWM unless noted otherwise on other drawings.

- 4.12 Finish surfaces to the following tolerances, according to ASTM E 1155, for a randomly trafficked floor surface:
- Specified overall values of flatness, F(F) 35; and of levelness, F(L) 25; with minimum local values of flatness, F(F) 24 and of levelness, F(L) 17.
 - The composite F(F) and F(L) numbers shall be measured and reported within 72 hours after completion of slab concrete finishing operations and before removal of any supporting shores.

- 4.13 Non-shrink grout shall be pre-mixed, non-corrosive, non-metallic, non-staining containing silica sands, Portland cement, shrinkage compensating and water reducing agents. Product shall only require the addition of water. Minimum compressive strength shall be 2500 psi after one day and 7000 psi after 28 days. Grout shall be free of gas producing or air releasing and oxidizing agents and contain no corrosive iron, aluminum or gypsum.

- 4.14 Provide concrete grout - not mortar - for reinforced masonry lintel and bond beams where indicated on drawing or as scheduled.

- 4.15 Tolerance for anchor rods and other embedded items shall be per the AISC Code of Standard Practice Section 7.5.

- 4.16 Unless otherwise shown in the architectural drawings, provide 3/4" chamfers at all column, wall, slab or beam edges that are exposed to view in the finished structure.

- 4.17 Concrete cover for cast-in-place concrete reinforcement:
- Concrete cast against & permanently exposed to earth:.....3"
- Concrete exposed to earth or weather:
- No. 6 through No. 18 Bars:.....2"
- No. 5 Bar and smaller:.....1 1/2"
- Concrete not exposed to weather or in contact with ground:
- Slabs, Walls, Joists:
- No. 11 Bar and smaller:.....3/4"
- Beams, Columns:
- Primary Reinforcement, Ties, Stirrups:.....1 1/2"

- 5.0 REINFORCING STEEL:

- 5.1 Reinforcing shall be domestic new billet steel conforming to ASTM A615, Grade 60 or 60S including stirrups and ties, except that reinforcing which is required to be welded shall conform to ASTM A706.

- 5.2 Field bending of concrete reinforcing steel is not permitted.

- 5.3 Welded wire mat and fabric shall conform to ASTM A184 and A185 respectively and shall be provided in flat sheets. Welded wire mat/fabric shall be lapped 0'-6" at all splices.

- 5.4 Bar Splices:

Bar Size	Fc = 3,000psi		Fc = 4,000psi		Fc = 5,000psi	
	Ld (in)	Class "B" Lap Splice (in)	Ld (in)	Class "B" Lap Splice (in)	Ld (in)	Class "B" Lap Splice (in)
#3	17	22	15	19	13	17
#4	22	29	19	25	17	23
#5	28	36	24	31	22	28
#6	33	43	29	37	26	34
#7	48	63	42	54	38	49
#8	55	72	48	62	43	56
#9	62	81	54	70	48	63
#10	69	90	60	78	54	69
#11	76	98	66	85	59	76

- NOTES:
- Values are based on normal weight concrete.
 - Ld = minimum embed of rebar
 - Class "B" lap splice refers to minimum distance bars must be lapped for a full tension splice.
 - For Epoxy Coated bars multiply table values by 1.2
 - For Beam Top Bars multiply table values by 1.3
 - For Top Bars in Slabs and Footings 13in and thicker multiply table values by 1.3

- 6.0 GENERAL WOOD FRAMING NOTES:

- 6.1 All load bearing walls shall be SPF#2 U.N.O. or approved equal:
- See plans and load bearing wall schedule for locations, spacing, and load bearing studs species.
- All interior non-load bearing wall, shall be SPF #2, or approved equal.
- All top plates shall be SYP #2 or better. All sill plates shall be SYP #3 or better. Pressure treat all sill plates in contact with concrete or masonry.
- All pressure treated 2x material shall be SYP #2 or better and shall be treated in accordance with AWWA Standard U1 to the requirements of Use Category 3B (UC3B) or Use Category 4A (UCA4).
- All pressure treated Parallam shall be Truss Joist MacMillan, Wolmanized Parallam PSL, or approved equal.
- See S4 Sheets for Glulam Grade Schedule.
- All Blocking, Headers, beams and miscellaneous framing shall be SYP#2 U.N.O.

- 6.2 All Laminated Veneer Lumber (LVL) shall be Louisiana Pacific, Gang-Lam 3100F, 2.0E or approved equal.
- All roof and floor trusses shall be Builders First Source or approved equal. Truss supplier shall construct trusses to provide full bearing on all walls and girders. The truss supplier shall also submit drawings for review prior to fabrication. The shop drawings shall show the following:

- Lay-out plan
- Bearing locations
- Truss elevations
- Mechanical openings
- Structural calculations
- Professional engineer seal to certify design. Engineer must be licensed in the state where the project is located.
- Hurricane clips and tie downs

- 6.3 Wall Sheathing

- Exterior wall sheathing shall be 7/8" exposure 1 grade plywood or OSB U.N.O.
- Interior Shear Wall sheathing shall be 7/8" OSB or plywood.
- Block all edges @ exterior walls and Shear Walls.
- First row of sheathing at slab on grade shall be pressure treated, installed horizontally.
- See S5 sheets for shear wall nailing requirements block all edges.
- All other non-shear Wall sheathing shall be nailed to supports w/ 8d @ 3'o.c. edges and 12'o.c. field.

- 6.4 Roof Deck/Diaphragm

- Roof sheathing shall be 5/8" Exterior plywood on flat roof trusses and 2x Tongue groove at timber beam locations with 5/8" Exterior plywood sheathing
- Place long direction perpendicular to framing
- Stagger end joints
- Provide roof sheathing clips, Simpson PSC/LPSCA or approved equal at all unsupported edges.
- Nail to supporting members with 10d ring shank @ 6'o.c. edges and 12'o.c. field.

- 6.5 See plan for location of Wood Shear Walls and detail sheets for framing requirements.

- 6.6 [X] number in box notes the required number of bundled studs in that location. Bundled studs shall rest on framing member below or provide solid blocking from sub-floor to plate or girder below. Good framing practices shall be used in all cases.

- 6.7 All strap and tie connections shall have z-max (g185) triple zinc coating (or hot-dipped galvanized). All nails in contact with pressure treated lumber shall be hot-dipped galvanized and approved for use in pressure treated lumber.

- 6.8 Do not bend coil straps.

- 6.9 Unless noted otherwise, connect all building components per table 2304.10.1 - fastening schedule, per IBC 2015.

- 7.0 SHEAR WALL AND UPLIFT HOLDOWN SYSTEM:

- 7.1 See plans for shear wall locations and designations. See S5 Sheets for typical details and shear wall holdown requirements

- 7.3 See roof plan and sections for uplift requirements.

- 8.0 CONSTRUCTION AND SAFETY:

- 8.1 Woods Engineering P.A.'s responsibility is limited to the details and information shown on these drawings. It is the responsibility of the Contractor to provide adequate safety measures required by local codes as well as OSHA Standards for the Construction Industry. This should include, but not be limited to the following:
- Shoring to protect new as well as existing structures.
 - Necessary Scaffolding.
 - Material Handling Equipment.
 - Trench Boxing.

- 9.0 SHOP DRAWING SUBMITTAL:

- 9.1 See Project Manual

- 9.2 Contractor shall submit Electronic copies (PDF format) of each shop drawing for review. Shop drawings shall be reviewed by the Contractor prior to submission to the Engineer. The Contractor shall allow 10 working days for shop drawing approval.

- 10.0 SPECIAL INSPECTIONS:

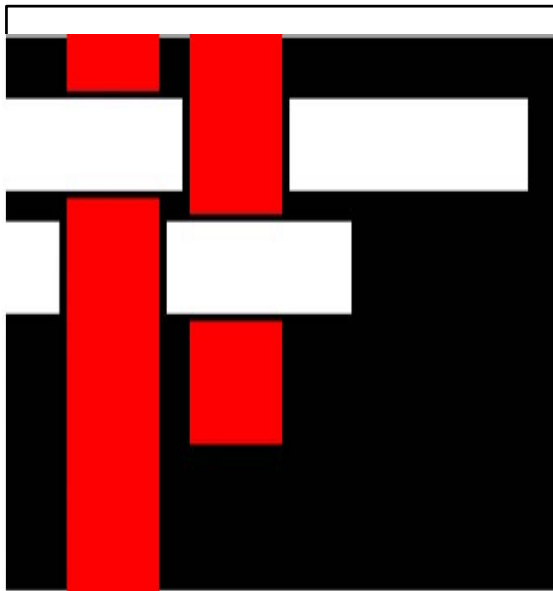
- 10.1 Refer to Specification Section 014533 and for all Special Inspections requirements.

ABBREVIATIONS

@	AT	KSI	KIPS PER SQUARE INCH
&	AND	(L)	LONG SIDE REINFORCEMENT
AB	ANCHOR BOLTS	LB	LONG BAR
ACI	AMERICAN CONCRETE INSTITUTE	LBS	POUNDS
ADDL	ADDITIONAL	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISHED FLOOR	LLV	LONG LEG VERTICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LO	LOW
	AMERICAN IRON AND STEEL INSTITUTE	LOC	LOCATION
AISI	ALTERNATE	LWC	LIGHT WEIGHT CONCRETE
	ARCHITECTS - ARCHITECTURAL	MC	MAXIMUM
ALT	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MECH	MOMENT CONNECTION
ASTM	AMERICAN WELDING SOCIETY	MFR	MANUFACTURER
	BOTTOM	MID	MIDDLE
AWS	CONCRETE	MIN	MINIMUM
B, BOTT	CONCRETE CONNECTION	MISC	MISCELLANEOUS
BCX	BOTTOM CHORD EXTENSION	MOW	MIDDLE OF WALL
BFF	BELOW FINISHED FLOOR	MP	MASONRY PILASTER
BLDG	BUILDING	d	NAILS - PENNY
BM	BEAM	NUMBER	NUMBER
BOS	BOTTOM OF STEEL	NS	NEAR SIDE
BRG	BEARING	NTS	NOT TO SCALE
BTWN	BETWEEN	NWC	NORMAL WEIGHT CONCRETE
CFS	COLD FORMED STEEL	OC	ON CENTER
CJ	CONTRACTION JOINT	OFB	OUTSIDE FACE OF BRICK
CL	CENTERLINE	OFM	OUTSIDE FACE OF MASONRY
CLR	CLEAR	OFS	OUTSIDE FACE OF STUD
CMU	CONCRETE MASONRY UNITS	OPNG	OPENING
COL	COLUMN	OPPG	OPPOSITE HAND
CONC	CONCRETE	PEBS	PRE-ENGINEERED BUILDING
CONN	CONNECTION		SUPPLIER
CONST JT	CONSTRUCTION JOINT	PED	PEDESTAL
CONT	CONTINUOUS	PL	PLATE
CONTR	CONTRACTOR	PSF	POUNDS PER SQUARE FOOT
CSJ	COMPOSITE STEEL JOIST	PSI	POUNDS PER SQUARE INCH
CTRD	CENTERED	PSL	PARALLEL STRAND LUMBER
DBA	DEFORMED BAR ANCHOR	PLF	POUNDS PER LINEAR FOOT
DD	DELEGATED DESIGN	PT	PRESSURE TREATED
DEFL	DEFLECTION	REF	REFERENCE
DEPR	DEPRESSION - DEPRESSED	REINF	REINFORCING
DET	DETAIL	REQD	REQUIRED
DIAG	DIAGONAL	(S)	SHORT SIDE REINFORCEMENT
Ø	DIAMETER	SCHD	SCHEDULE
DIM	DIMENSION	SF	STEP FOOTING
DIST	DISTANCE	SIM	SIMILAR
DWG(S)	DRAWING(S)	SOG	SLAB ON GRADE
DWL(S)	DOWEL(S)	SPEC(S)	SPECIFICATION(S)
EA	EACH	SPF	SPRUCE PINE FUR
ELEV	ELEVATION	SQ	SQUARE
EMBED	EMBEDDED - EMBEDMENT	STD	STANDARD
ENG	ENGINEER	STIFF	STIFFENER
EOR	ENGINEER OF RECORD	STIRR	STIRRUP
EQ	EQUAL	STL	STEEL
EQUIP	EQUIPMENT	STR	STRUCTURAL
EF	EACH FACE	SW	SHEAR WALL
EJ	EXPANSION JOINT	SYP	SOUTHERN YELLOW PINE
EOD	EDGE OF DECK	T	TOP
EOM	EDGE OF MASONRY	TCX	TOP CHORD EXTENSION
EOS	EDGE OF SLAB	TOC	TOP OF CONCRETE
EOW	EDGE OF WALL	TOS	TOP OF STEEL
EW	EACH WAY	TOW	TOP OF WALL
EXIST	EXISTING	TYP	TYPICAL
EXP	EXPANSION	UNO	UNLESS NOTED OTHERWISE
EXT	EXTERIOR	VB	VEHICLE BARRIER
FDN	FOUNDATION	VERT	VERTICAL
FFE	FINISHED FLOOR ELEVATION	VIF	VERIFY IN FIELD
FS	FAR SIDE	W	WITH
FTG	FOOTING	WWF	WELDED WIRE FABRIC
GA	GAUGE		
GALV	GALVANIZED		
GT	GIRDER TRUSS		
HD	HEADED		
HI	HIGH		
HORIZ	HORIZONTAL		
HSS	HOLLOW STRUCTURAL SECTION		
HT	HIP TRUSS		
IFM	INSIDE FACE OF MASONRY		
INT	INTERIOR		
JBE	JOIST BEARING ELEVATION		
JT	JOINT		
K	KIP-S		
KB	KICKER BRACE		

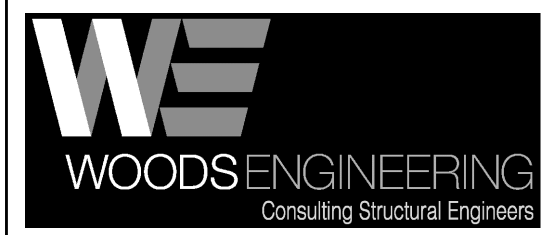
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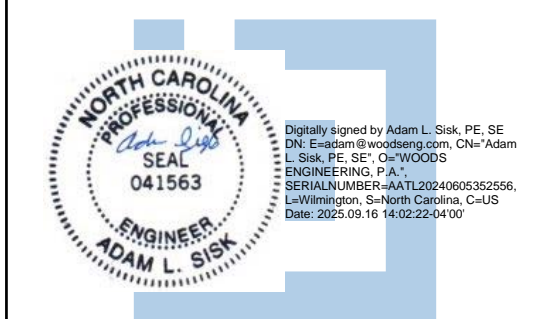
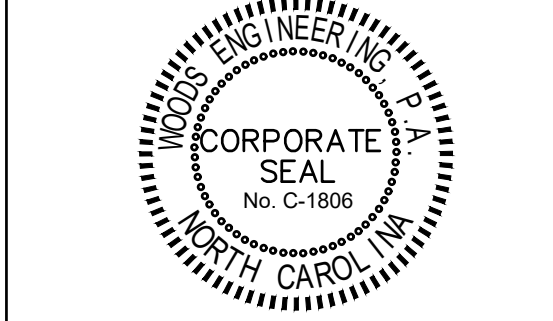
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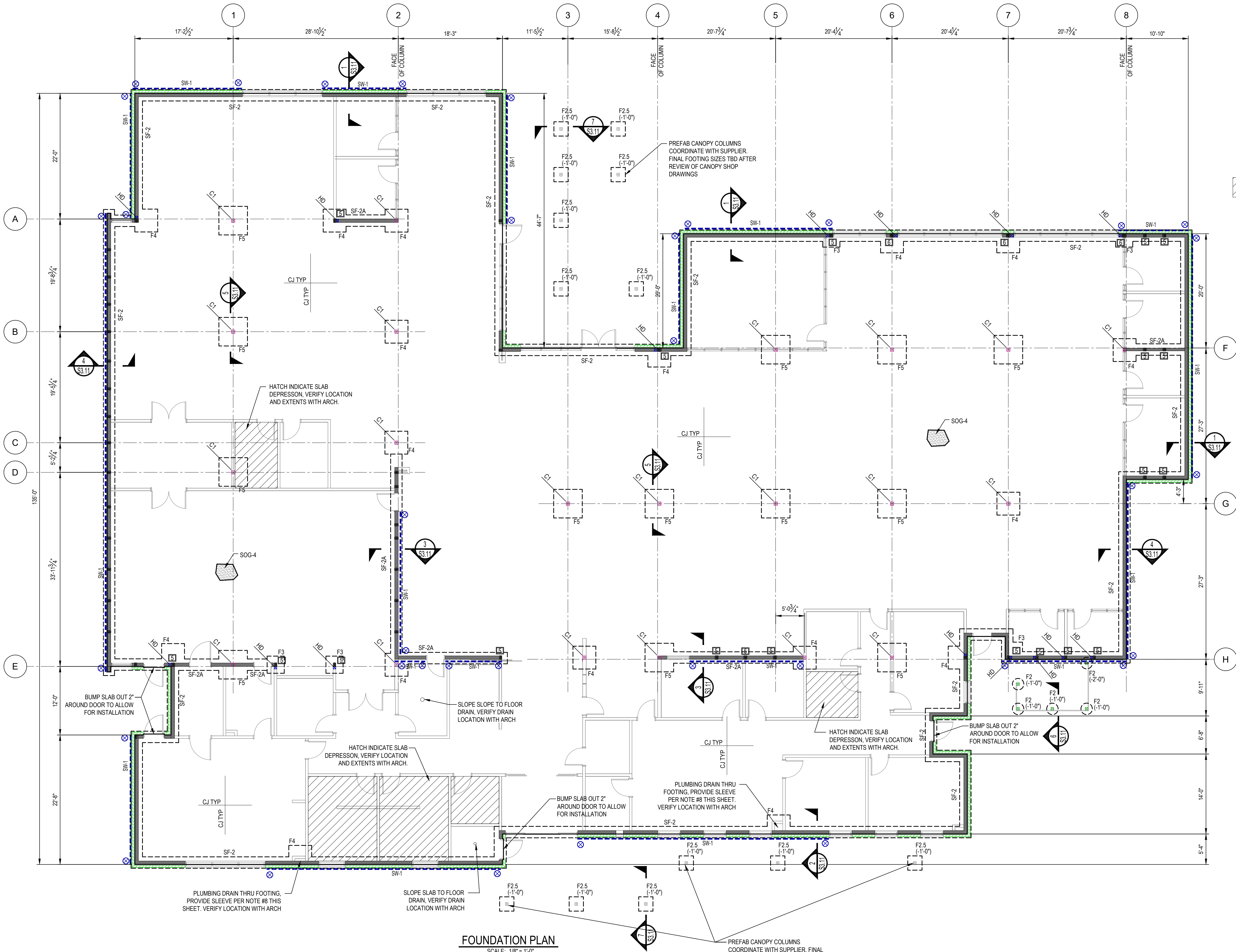
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FOUNDATION PLAN

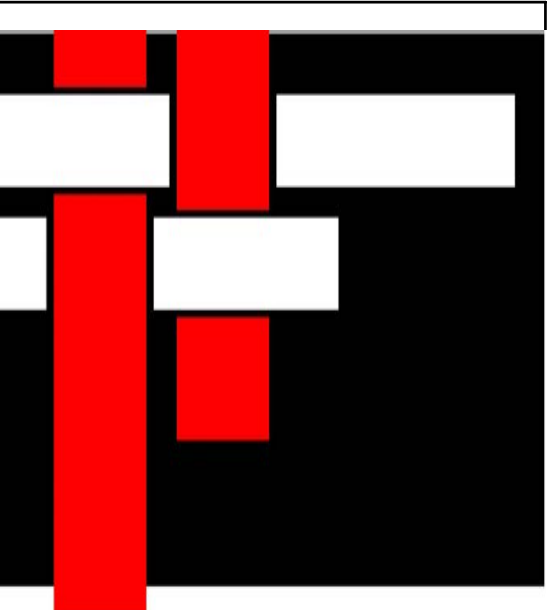
SCALE: 1/8" = 1'-0"

FOUNDATION LEGEND:

- LBW-x LOAD BEARING WALLS (ABOVE) SEE SCHEDULE ON S4 SHEETS
- SF-x STRIP FOOTING DESIGNATION SEE SCHEDULE ON S3 SHEETS
- Fx SPREAD FOOTING DESIGNATION SEE SCHEDULE ON S3 SHEETS
- SW-x SHEAR WALL DESIGNATION SEE S5 SHEETS FOR SCHEDULE, DETAILS, & REQUIREMENTS. 'X' INDICATES # OF STORIES
- ⊗ INDICATES APPROXIMATE LOCATION OF SHEAR WALL HOLDDOWN SEE SCHEDULE ON S5 SHEETS
- 7" 7" GLULAM POST SEE SCHEDULE S4 SHEETS FOR GRADE
- INDICATES CONCRETE SLAB CONTRACTION JOINTS, SEE S3 SHEETS FOR TYPICAL DETAILS. SEE PLAN FOR LOCATIONS. MAXIMUM SPACING = 16' IN BOTH DIRECTIONS.
- SEE BEAM SCHEDULE S4 SHEETS FOR BUNDLED STUDS REQUIREMENTS
- INDICATES SLAB-ON-GRADE. SEE SCHEDULE ON S3 SHEETS
- 2" SLAB DEPRESSION VERIFY DEPTH AND LOCATION WITH ARCH.
- GRID DESIGNATION FOR CENTERLINE OF COLUMN U.N.O.
- SIMPSON HDU5-SDS2.5 HOLDOWN AT BUNDLED STUDS POST LOCATIONS

FOUNDATION PLAN NOTES:

- SEE S1 SHEETS FOR ADDITIONAL GENERAL NOTES, FOUNDATION NOTES, CONCRETE NOTES, AND REINFORCING STEEL NOTES.
- DATUM ELEVATION = TOP OF SLAB ELEVATION = ASSUMED 0'-0". OTHER ELEVATIONS ARE NOTED AS (+ OR -) FROM DATUM ELEVATION. SEE CIVIL FOR ELEVATIONS RELATIVE TO MSL.
- FOOTINGS SHALL BE MONOLITHIC W/ SLAB, U.N.O.
- SEE SLAB-ON-GRADE SCHEDULE S3 SHEETS.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER DISCIPLINE DRAWINGS FOR OPENINGS AND DEPRESSIONS NOT SHOWN ON THESE DRAWINGS.
- SEE S5 SHEETS FOR SHEAR WALL INFORMATION AND REQUIREMENTS.
- WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED, U.N.O.
- RELOCATE ANY UTILITY LINES THAT CONFLICT WITH THE FOUNDATIONS OR DROP THE FOUNDATIONS TO AN ELEVATION BELOW THE PROPOSED UTILITIES. RELOCATE ANY GRAVITY FLOW LINES THAT CONFLICT WITH SPREAD FOOTINGS AS SHOWN ON STRUCTURAL FOUNDATION PLANS. IF A GRAVITY FLOW LINE TRAVELS UNDER A CONTINUOUS STRIP FOOTING EITHER:
 - DROP THE FOOTING ELEVATION BELOW THE PROPOSED LINE.
 - IF THE UTILITY LINE IS < 2'-0" BELOW THE STRIP FOOTING, THEN ENCASE THE LINE IN A STEEL PIPE 2" LARGER IN DIAMETER THAN THE LINE AND EXTEND THE PIPE 1'-0" PAST EACH SIDE OF THE CONCRETE FOOTING. BACKFILL THE TRENCH WITH #57 STONE. THE BEARING CAPACITY OF THIS AREA MUST MEET OR EXCEED THE ALLOWABLE SOIL BEARING CAPACITY.
 - IF THE UTILITY LINE IS > 2'-0" BELOW BOTTOM OF FOOTING, THEN STEEL PIPE IS NOT REQUIRED. BACKFILL THE TRENCH WITH #57 STONE. THE BEARING CAPACITY OF THIS AREA MUST MEET OR EXCEED THE ALLOWABLE SOIL BEARING CAPACITY.
- DIMENSIONS SHOWN ARE TO E.O.S. AND O.F.B. (U.N.O.) COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- IF DISCREPANCIES EXIST NOTIFY (AOR) AND (EOR) FOR CLARIFICATIONS.
- SEE S3.12 FOR MONUMENT SIGN DETAILS



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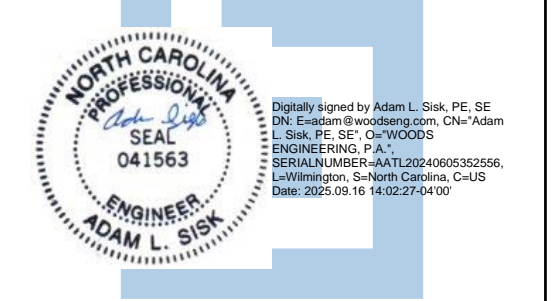
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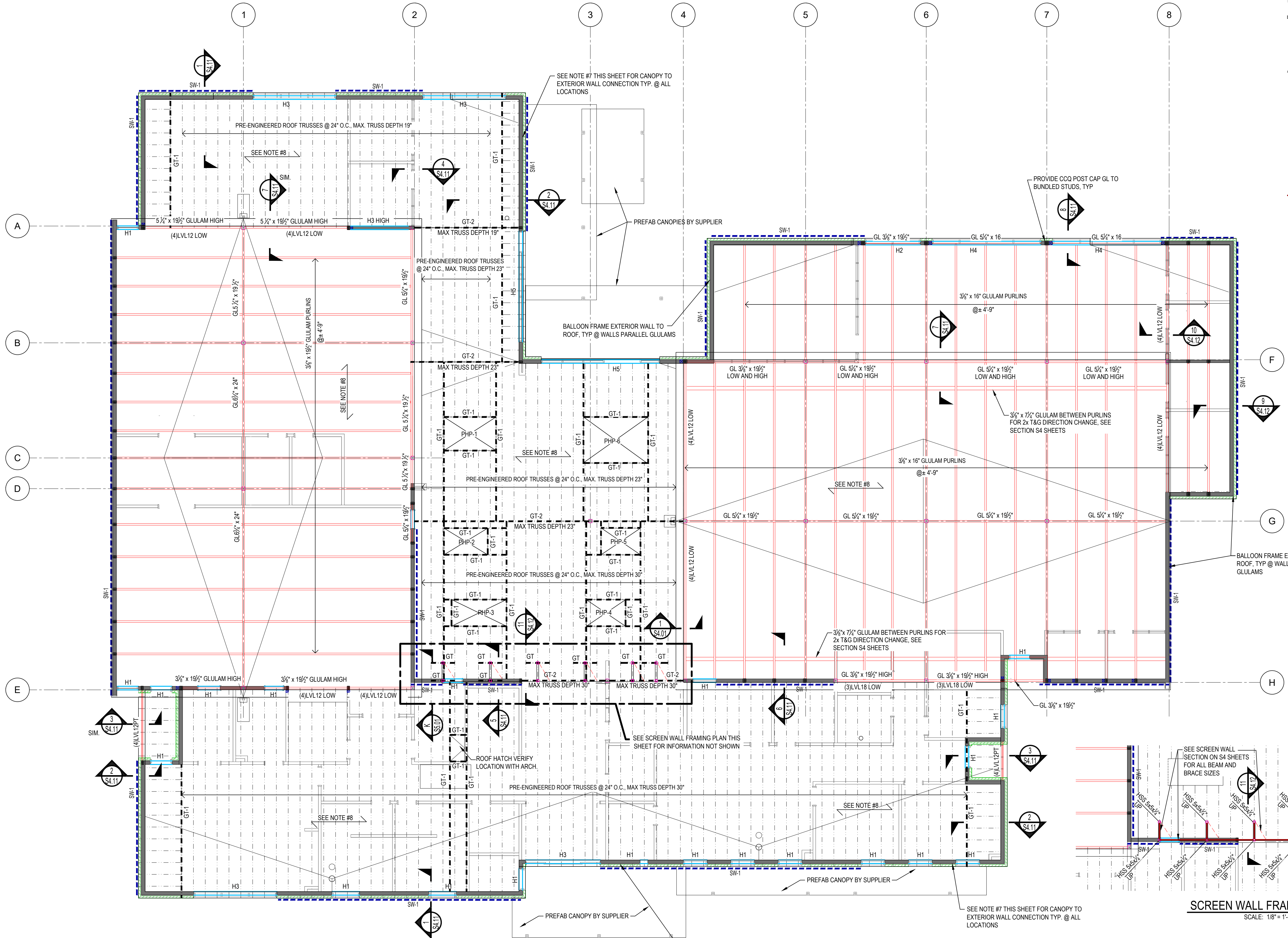
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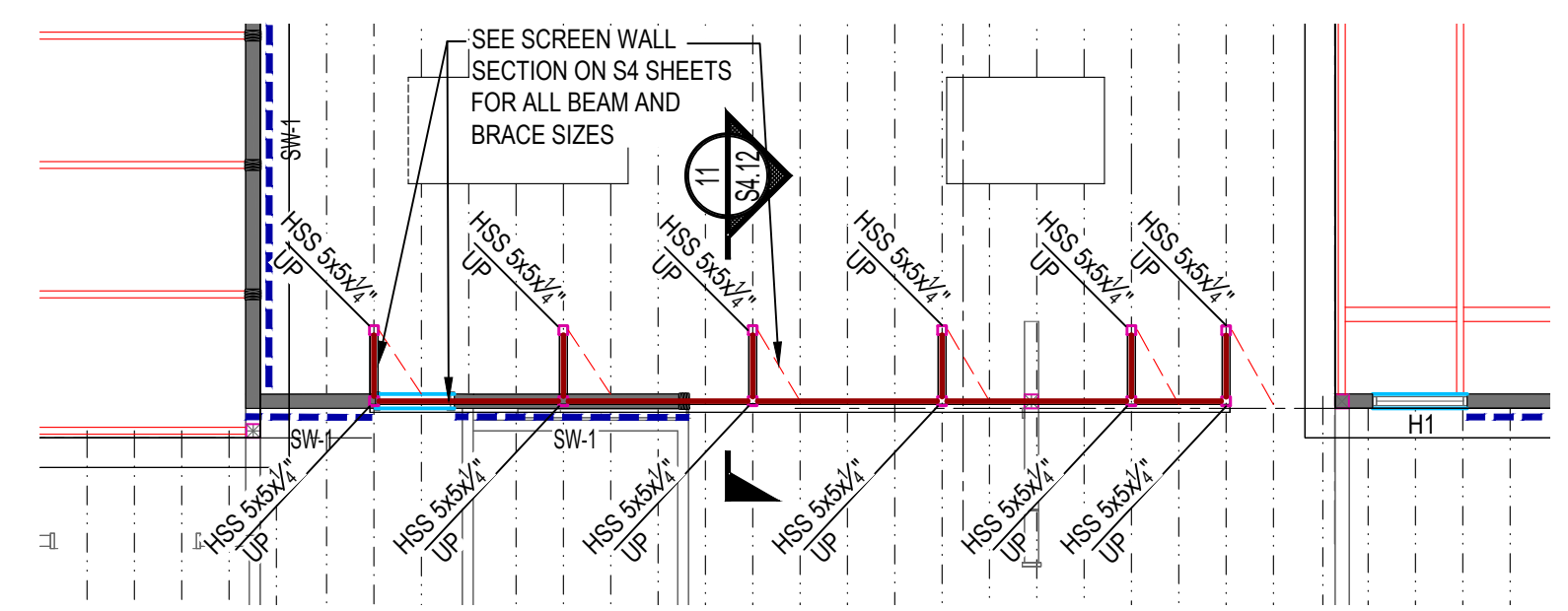
Foundation Plan

Rev.	Date	Notes

S2.01



- ROOF FRAMING LEGEND**
- ROOF TRUSSES @ 24" o.c.
 - HEADER, SEE SCHEDULE ON S4 SHEETS
 - WOOD BEAM, SEE PLAN AND SCHEDULE S4 SHEETS FOR SPECIES
 - 2x WALLS (ABOVE)
 - LOAD BEARING WALLS (ABOVE) SEE SCHEDULE ON S4 SHEETS
 - SHEAR WALL DESIGNATION SEE S5 SHEETS FOR SCHEDULE, DETAILS, & REQUIREMENTS. 'X' INDICATES # OF STORIES
 - INDICATES GIRDER TRUSS SEE SCHEDULE S4 SHEETS
 - INDICATES 7" x 7" GLULAM POST SEE SCHEDULE S4 SHEETS FOR GRADE SEE BEAM SCHEDULE S4 SHEETS FOR BUNDLED STUDS REQUIREMENTS
 - STEEL BRACE SEE SCREEN WALL SECTION S4 SHEETS
 - STEEL HSS SCREEN WALL POST SEE PLAN AND S4 SHEETS
 - STEEL BEAM AT SCREEN WALL, SEE PLAN AND S4 SHEETS
- ROOF FRAMING PLAN NOTES:**
- FOR GENERAL FRAMING INFORMATION AND MATERIAL SPECIFICATIONS, SEE S1 SHEETS.
 - HEADERS, BEAMS, LOAD BEARING WALLS AND SHEAR WALLS SHOWN ARE FOR FRAMING BELOW THIS LEVEL.
 - ROOF TRUSS SUPPLIER SHALL PROVIDE DRAG TRUSSES DIRECTLY ABOVE ALL INTERIOR SHEAR WALLS. SEE S5 SHEETS FOR REQUIREMENTS.
 - WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED, U.N.O.
 - TRUSS DESIGNER TO COORDINATE WEIGHT AND LOCATION OF ROOF TOP MECHANICAL UNITS WITH MECHANICAL DRAWINGS. SEE DETAIL ON S4 SHEETS FOR TYPICAL ROOF TOP MECHANICAL CURB DETAIL.
 - SEE BRICK SUPPORT ANGLE DETAIL S4 SHEETS FOR OPENING GREATER THAN 12 FT.
 - SEE DETAIL A ON S4.11 FOR CANOPY SUPPORT CONNECTION TO EXTERIOR WALL.
 - SEE S1.01 FOR ROOF SHEATHING REQUIREMENTS.



SCREEN WALL FRAMING PLAN
SCALE: 1/8" = 1'-0"

NOTE: ALL SCREEN WALL STEEL SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION

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



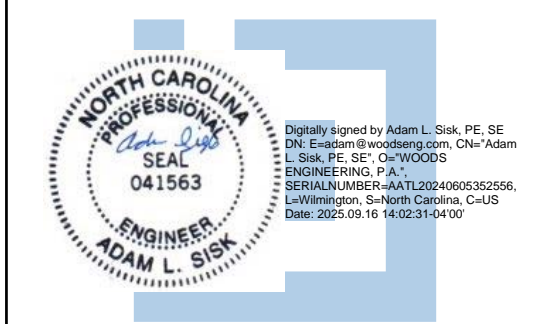
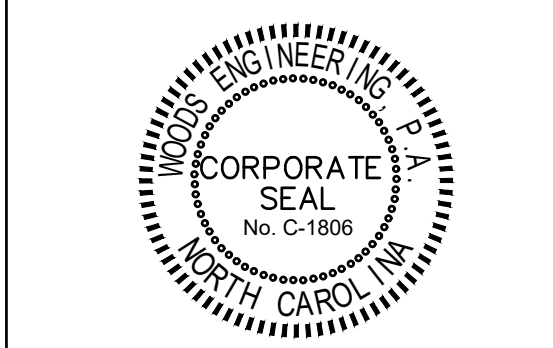
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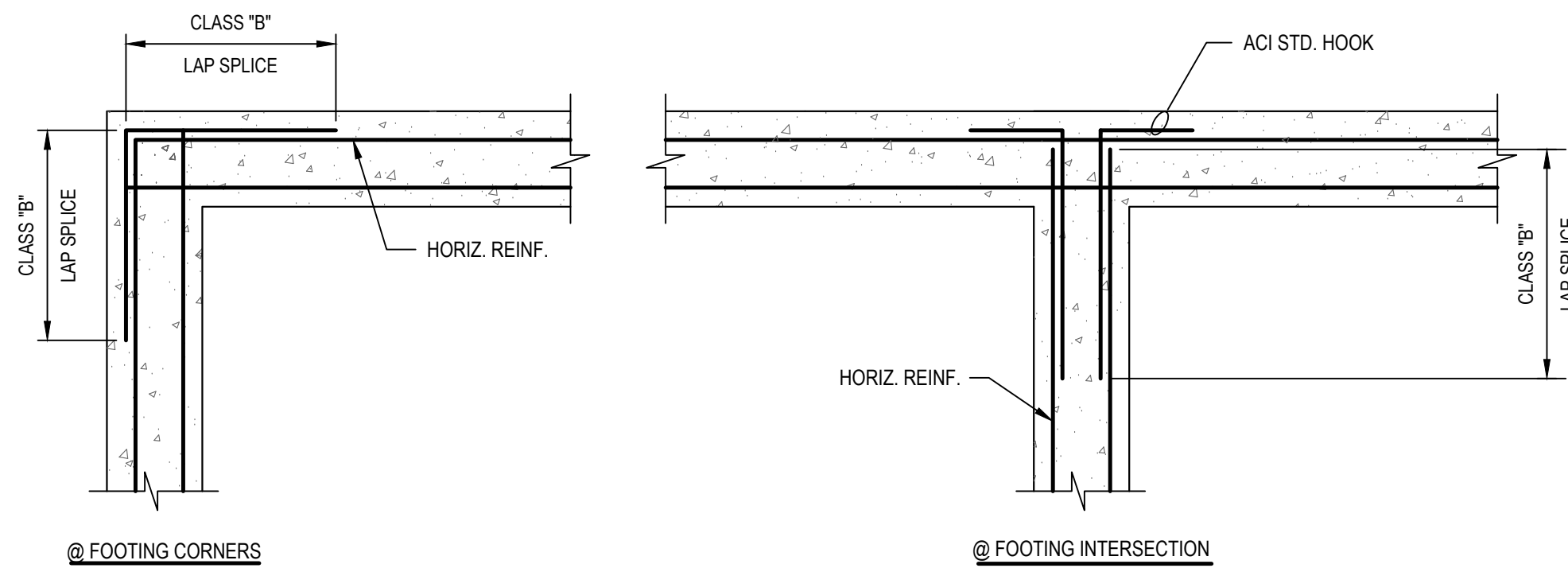
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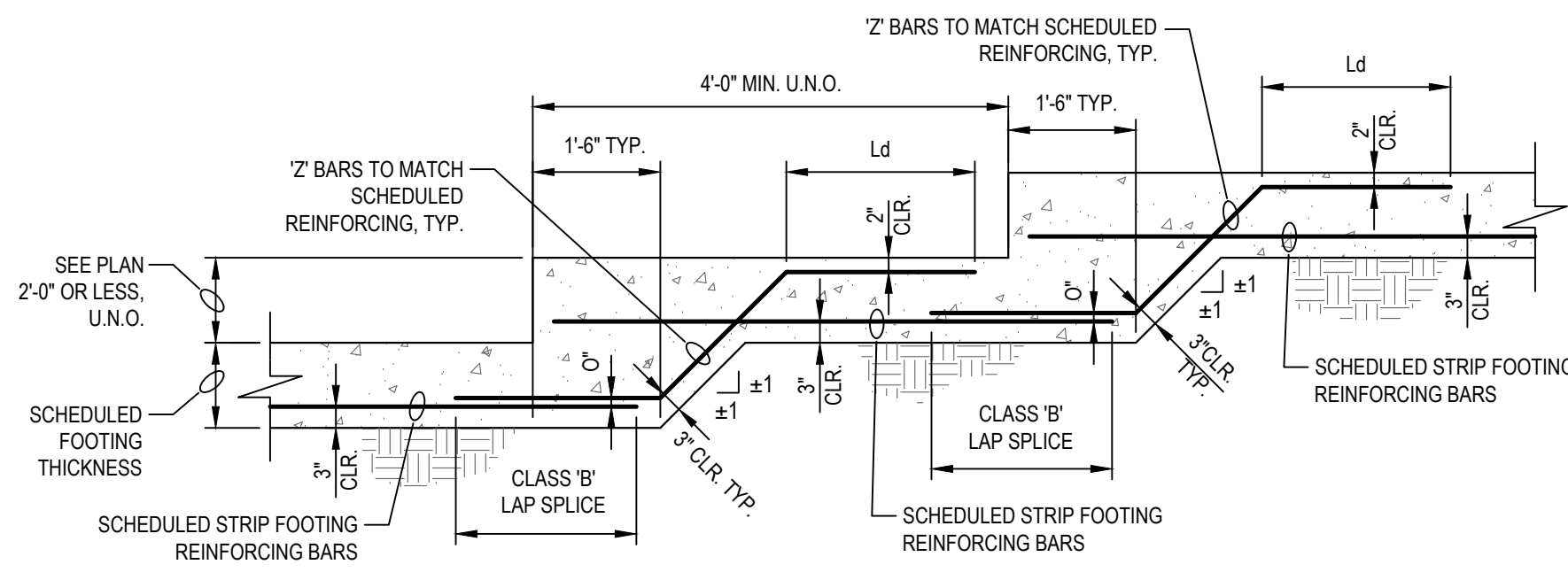
Roof Framing
Plan

Rev.	Date	Notes

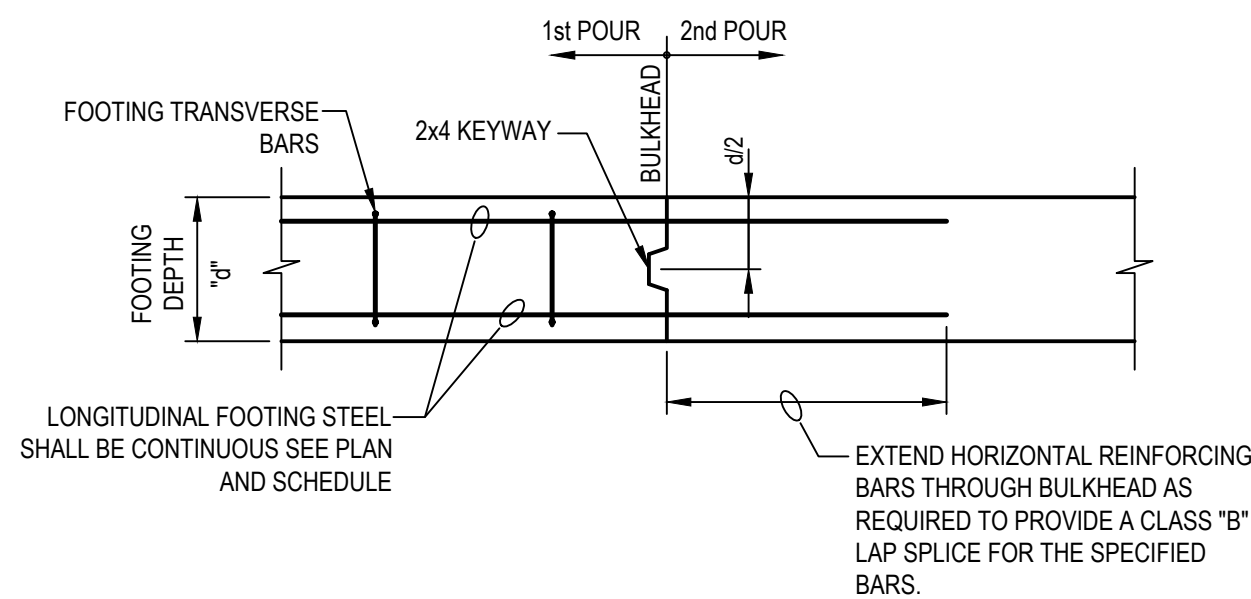
S2.02



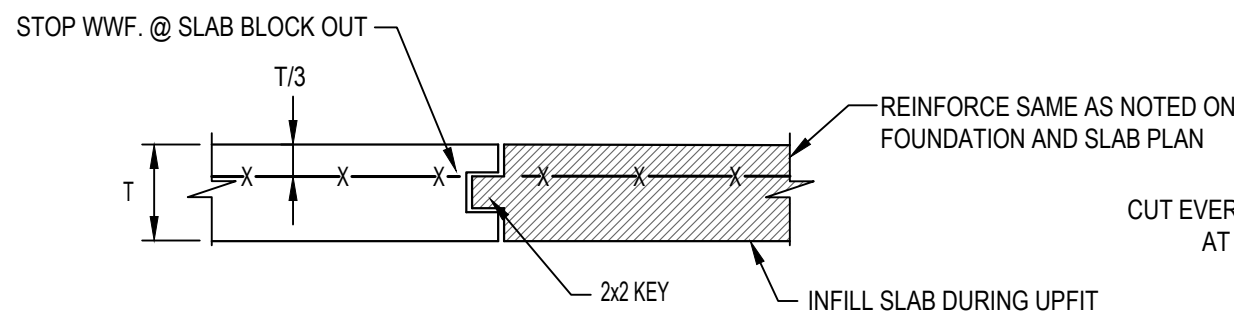
TYPICAL CORNER
REINFORCING FOR CONCRETE FOOTINGS
SCALE: 3/4" = 1'-0"



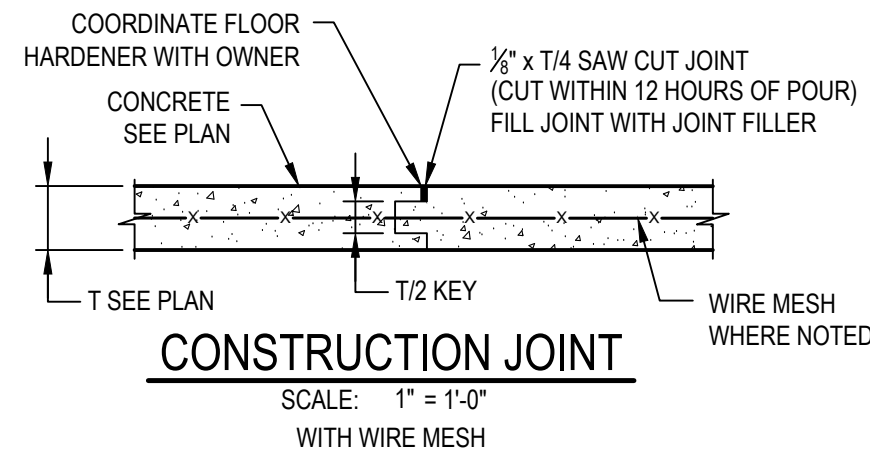
STEP FOOTING DETAIL
SCALE: 1/2" = 1'-0"



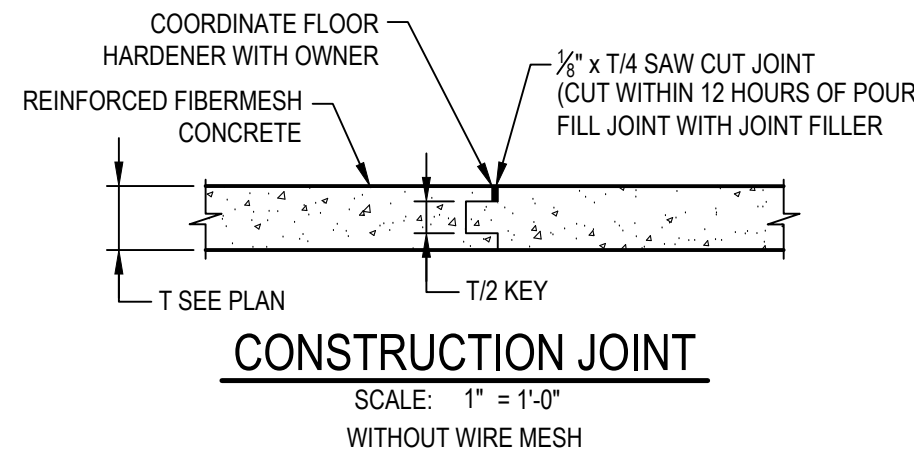
TYPICAL FOOTING CONSTRUCTION JOINT SECTION
SCALE: 3/4" = 1'-0"



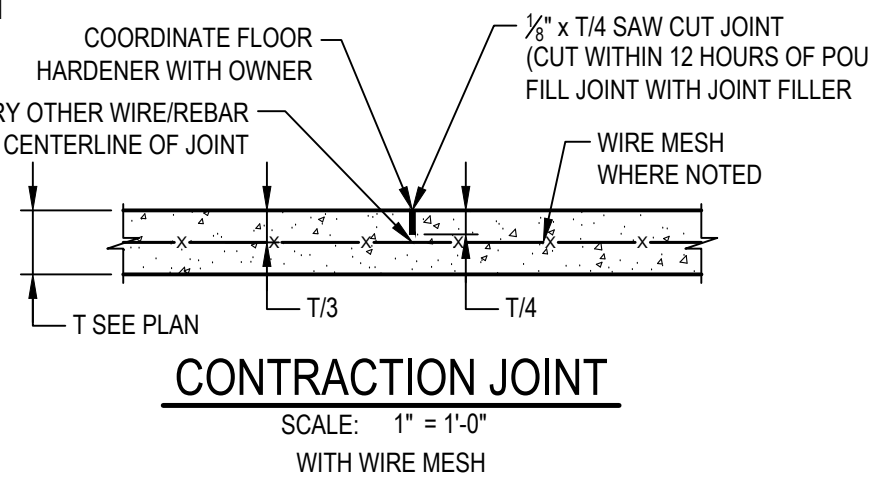
TYPICAL SLAB CONSTRUCTION
JOINT @ SLAB BLOCKOUT
NOT TO SCALE



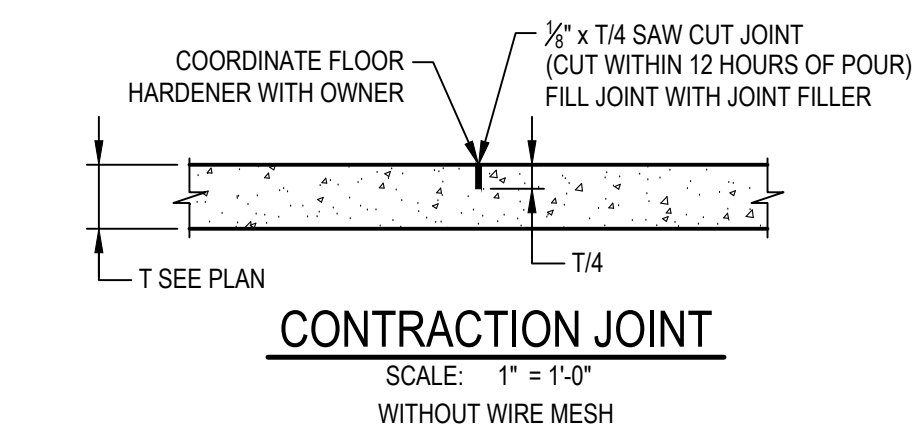
CONSTRUCTION JOINT
SCALE: 1" = 1'-0"
WITH WIRE MESH



CONSTRUCTION JOINT
SCALE: 1" = 1'-0"
WITHOUT WIRE MESH



CONTRACTION JOINT
SCALE: 1" = 1'-0"
WITH WIRE MESH



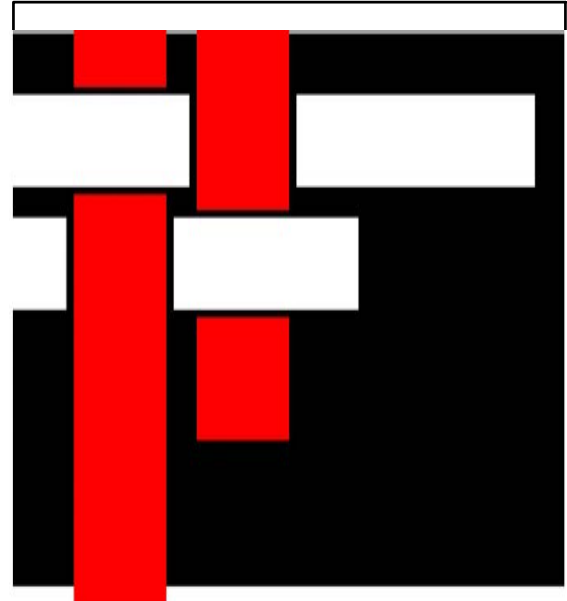
CONTRACTION JOINT
SCALE: 1" = 1'-0"
WITHOUT WIRE MESH

STRIP FOOTING (SF-X) SCHEDULE				
MARK	SIZE width x thickness x length	REINFORCEMENT (BOTTOM BARS U.N.O.)	REMARKS	TYPICAL LOCATION, U.N.O.
SF-2	2'-0" x 2'-0" x CONT.	(3)#5x CONT. BOTT & (1)#4xCONT. TOP	ADD (3)#5 x CONT. TOP @ SHEAR WALL LOCATIONS EXTEND REBAR 5'-0" PAST HOLDOWN	EXTERIOR WALLS
SF-2A	2'-0" x 1'-4" x CONT.	(3)#4xCONT.	ADD (3)#4 x CONT. TOP @ SHEAR WALL LOCATIONS EXTEND REBAR 5'-0" PAST HOLDOWN	INTERIOR WALLS

SPREAD FOOTING (FX) SCHEDULE			
MARK	SIZE length x width x thickness	REINFORCEMENT (BOTTOM BARS EACH WAY UNO)	REMARKS
F2	SEE SECTION S3 SHEETS	SEE SECTION S3 SHEETS	TYPICAL TRASH ENCLOSURE POST FOOTING
F2.5	2'-6" x 2'-6" x 1'-8"	SEE SECTION S3 SHEETS	TYP. CANOPY FOOTING
F3	3'-0" x 3'-0" x 2'-0"	(4) #5 E.W. TOP & BOTTOM	-
F4	4'-0" x 4'-0" x 2'-0"	(5) #5 E.W. TOP & BOTTOM	-
F5	5'-0" x 5'-0" x 2'-0"	(6) #5 E.W. TOP & BOTTOM	-

SLAB ON GRADE SCHEDULE						
MARK	THICKNESS	CONCRETE STRENGTH	REINFORCEMENT	AIR ENTRAINMENT	TYPICAL LOCATION	VAPOR BARRIER
SOG-4	4"	3,000psi	WW6x6xW2.0xW2.0 OR 3lb/cy MACROFIBER	NO	TYP INTERIOR	15mil
SOG-4E	4"	4,000psi	WW6x6xW2.0xW2.0 FLAT SHEETS	YES	TYP EXTERIOR	10mil

NOTES:
-ALL SLAB-ON-GRADES SHALL BEAR ON DRAINAGE LAYER AND WELL COMPACTED SUBGRADE PER GEOTECHNICAL REPORT. VERIFY COMPACTION AND MATERIAL WITH GEOTECHNICAL ENGINEER.



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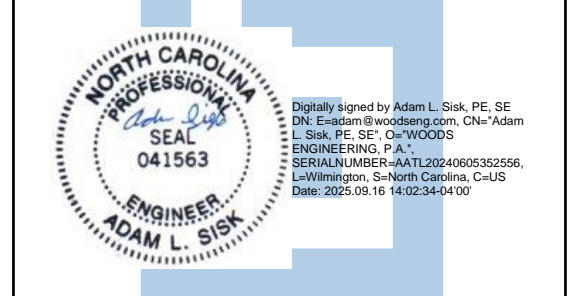
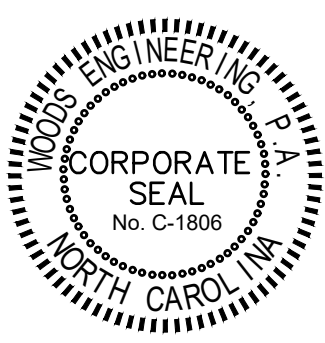
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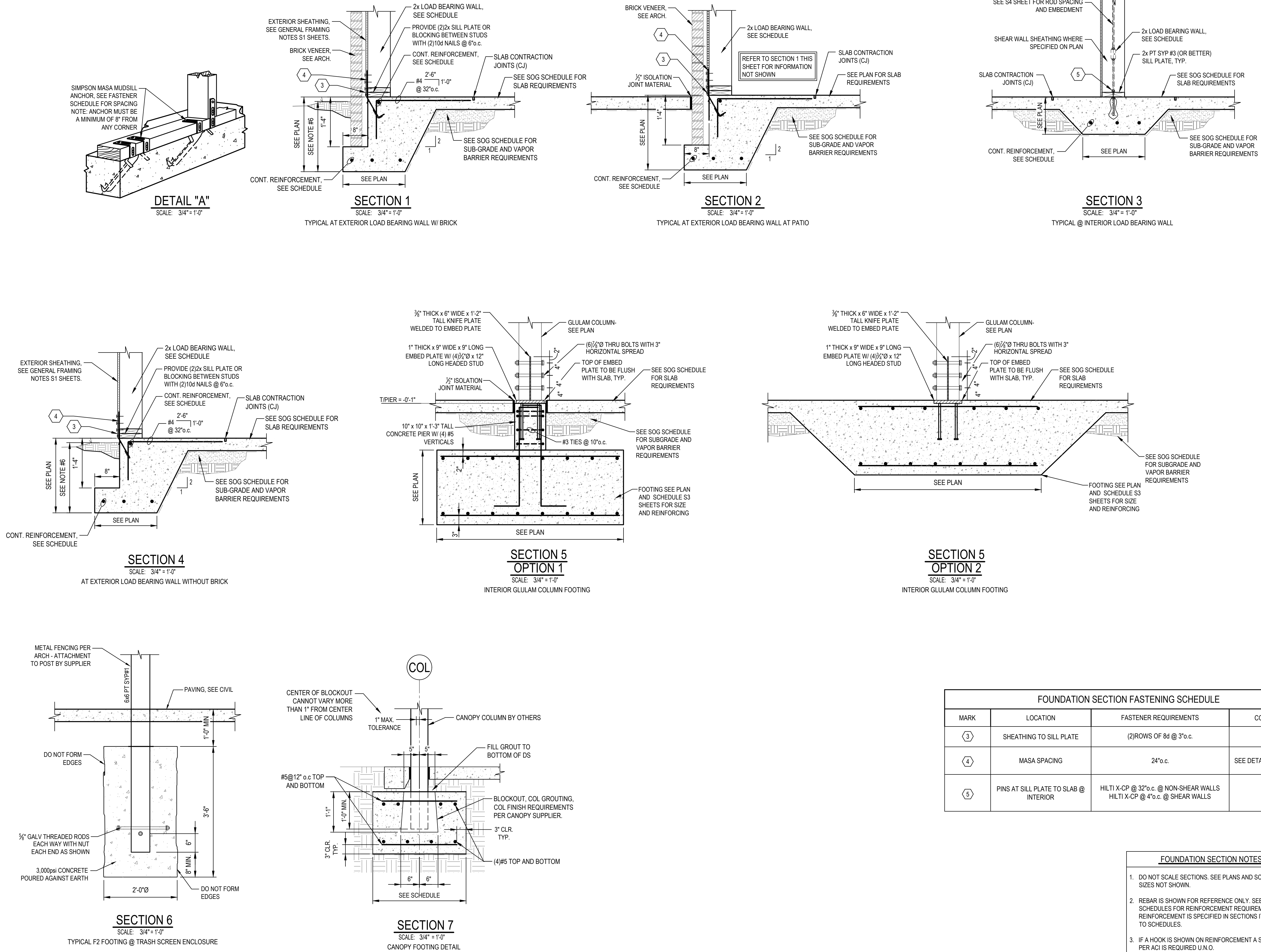
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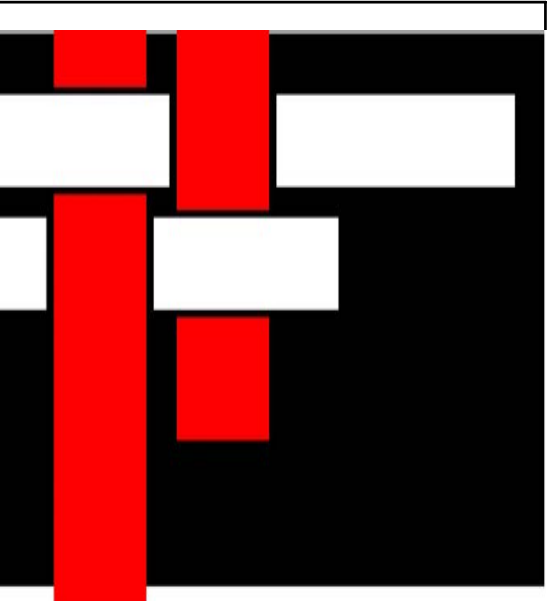
Foundation
Details

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S3.01



- FOUNDATION SECTION NOTES**
- DO NOT SCALE SECTIONS. SEE PLANS AND SCHEDULES FOR SIZES NOT SHOWN.
 - REBAR IS SHOWN FOR REFERENCE ONLY. SEE PLANS AND SCHEDULES FOR REINFORCEMENT REQUIREMENTS. WHERE REINFORCEMENT IS SPECIFIED IN SECTIONS IT IS IN ADDITION TO SCHEDULES.
 - IF A HOOK IS SHOWN ON REINFORCEMENT A STANDARD HOOK PER ACI IS REQUIRED U.N.O.
 - IF A DISCREPANCY EXISTS BETWEEN THE SECTIONS AND PLAN THE MORE STRINGENT REQUIREMENTS SHALL APPLY
 - WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED. U.N.O.
 - SEE S1 SHEETS FOR MINIMUM DEPTH OF FOOTING BEARING BELOW GRADE
 - ALL EPOXY FOR CONCRETE SHALL BE HILTI HY-200 OR APPROVED EQUAL
 - ALL EPOXY FOR CMU SHALL BE HILTI HY-270 OR APPROVED EQUAL



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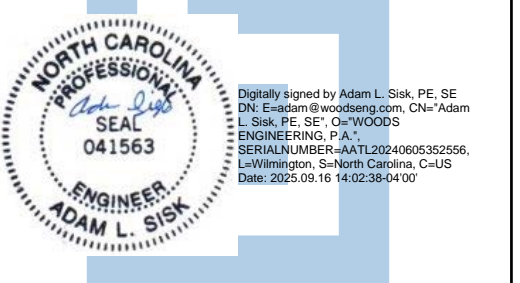
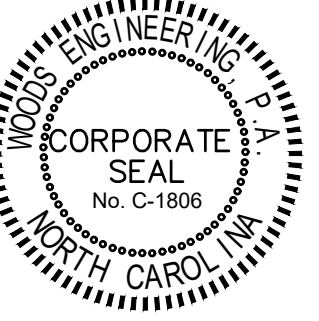
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Details**

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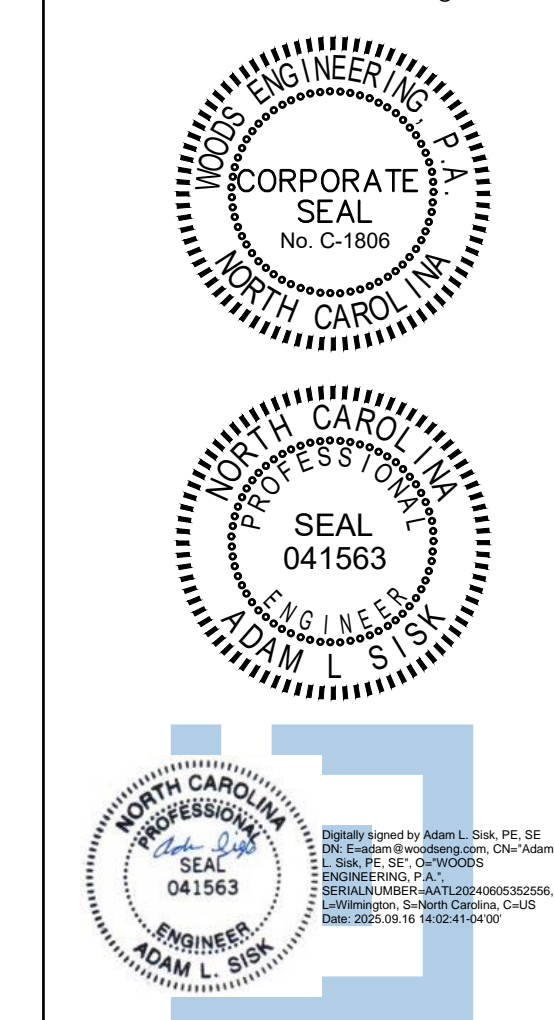
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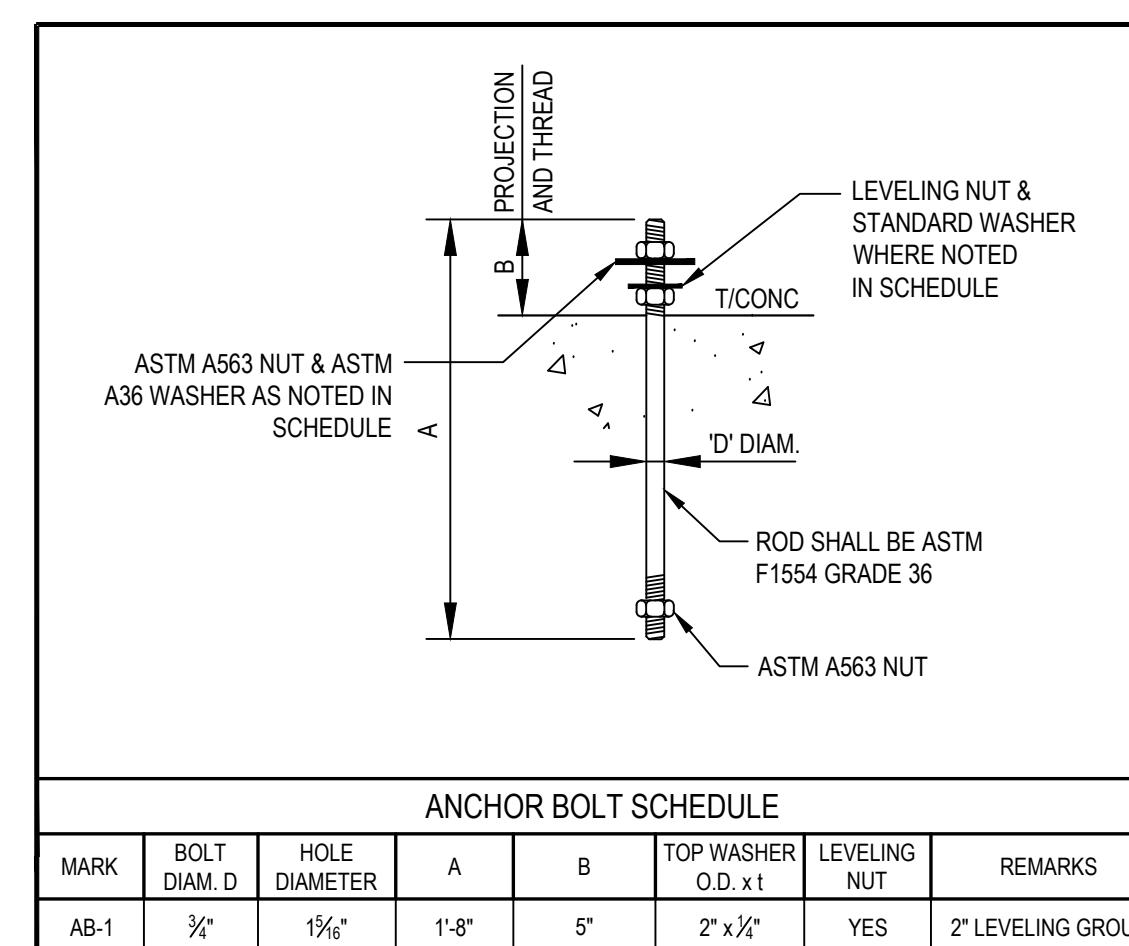
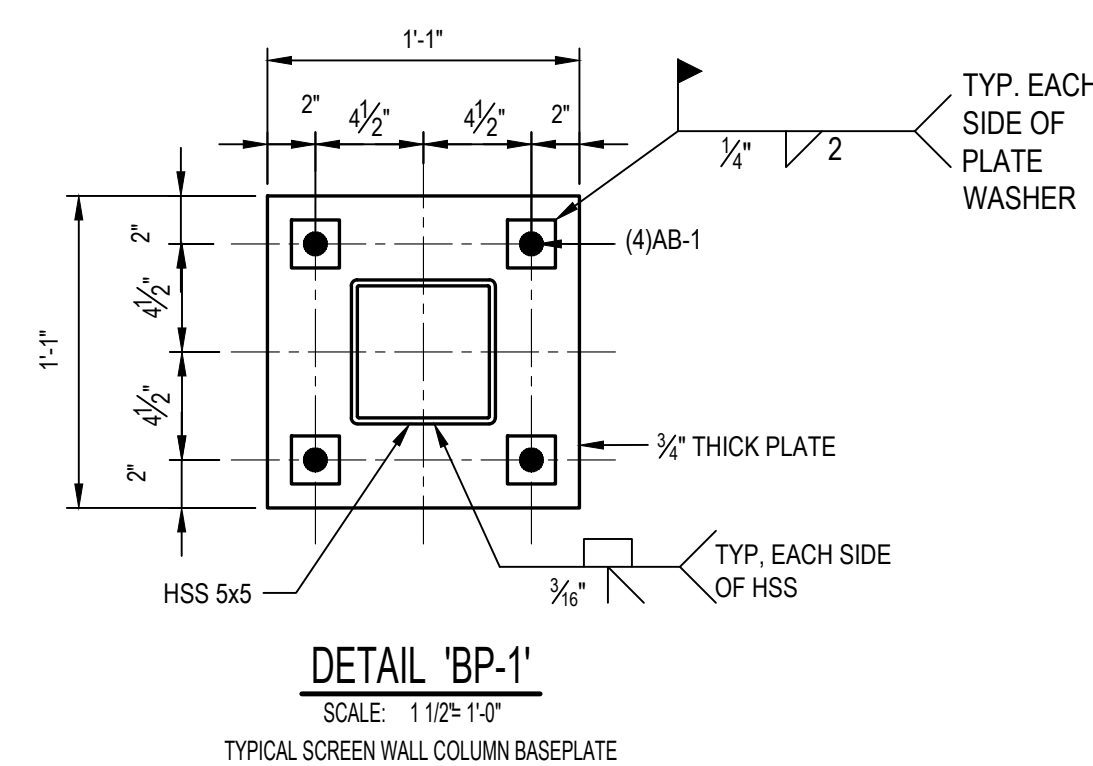
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S3.12

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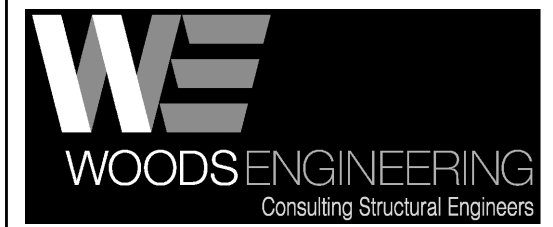
ANCHOR BOLT SCHEDULE							
MARK	BOLT DIAM. D	HOLE DIAMETER	A	B	TOP WASHER O.D. x t	LEVELING NUT	REMARKS
AB-1	3/4"	1 1/16"	1'-8"	5"	2" x 3/4"	YES	2" LEVELING GROUND

- ### FOUNDATION SECTION NOTES
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 3. IF A HOOK IS SHOWN ON REINFORCEMENT A STANDARD HOOK PER ACI IS REQUIRED U.N.O.
 4. IF A DISCREPANCY EXISTS BETWEEN THE SECTIONS AND PLANS THE MORE STRINGENT REQUIREMENTS SHALL APPLY
 5. WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED, U.N.O.
 6. SEE S1 SHEETS FOR MINIMUM DEPTH OF FOOTING BEARING BELOW GRADE
 7. ALL EPOXY FOR CONCRETE SHALL BE HILTI HY-200 OR APPROVED EQUAL
 8. ALL EPOXY FOR CMU SHALL BE HILTI HY-270 OR APPROVED EQUAL



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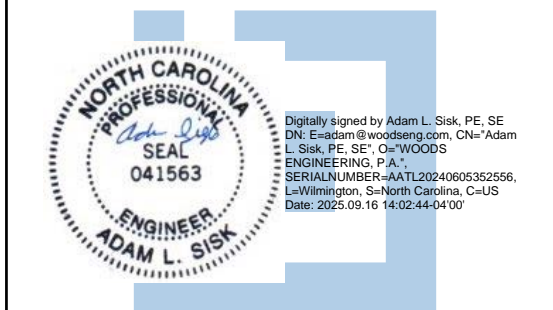
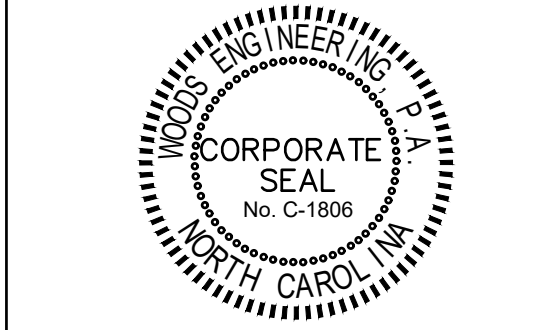
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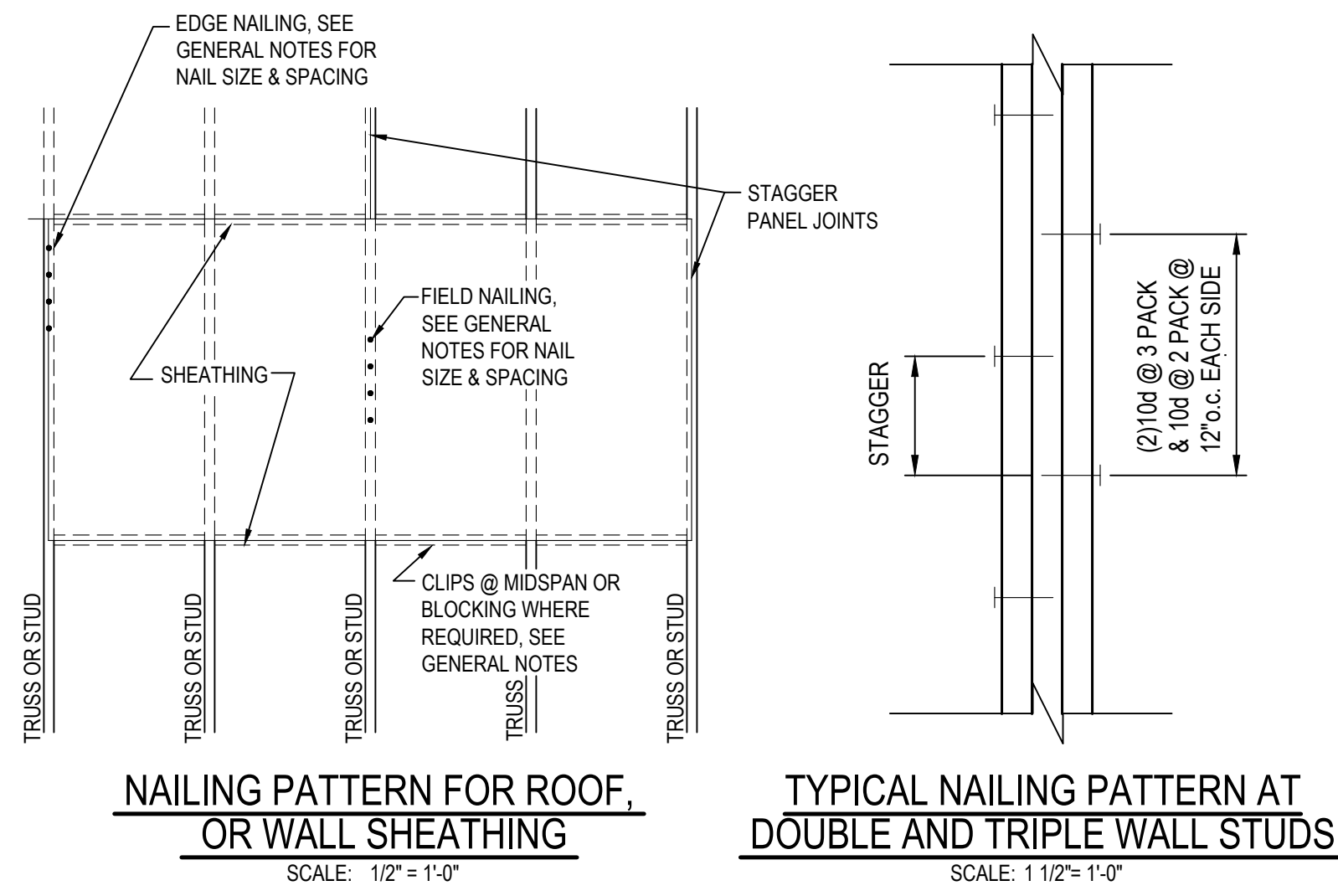
Construction Drawings

Issue Date: July 23, 2025

Framing Details

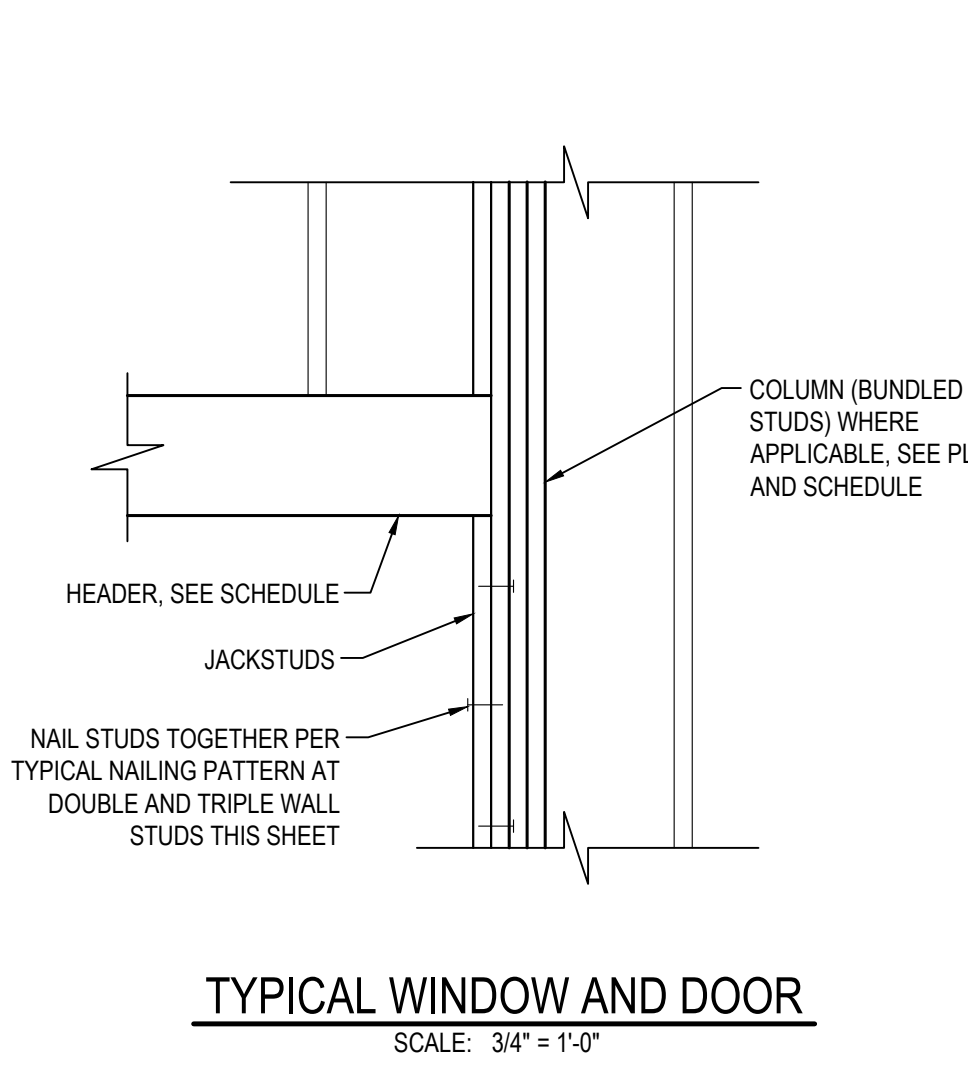
Rev.	Date	Notes

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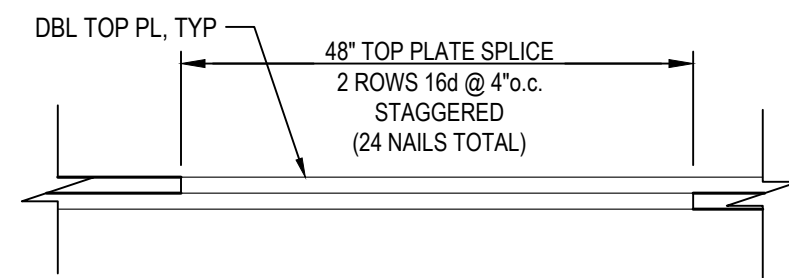
TYPICAL NAILING PATTERN AT DOUBLE AND TRIPLE WALL STUDS

SCALE: 1 1/2" = 1'-0"
FOR ADDITIONAL PLYS PROVIDE 10d @ 12" o.c.



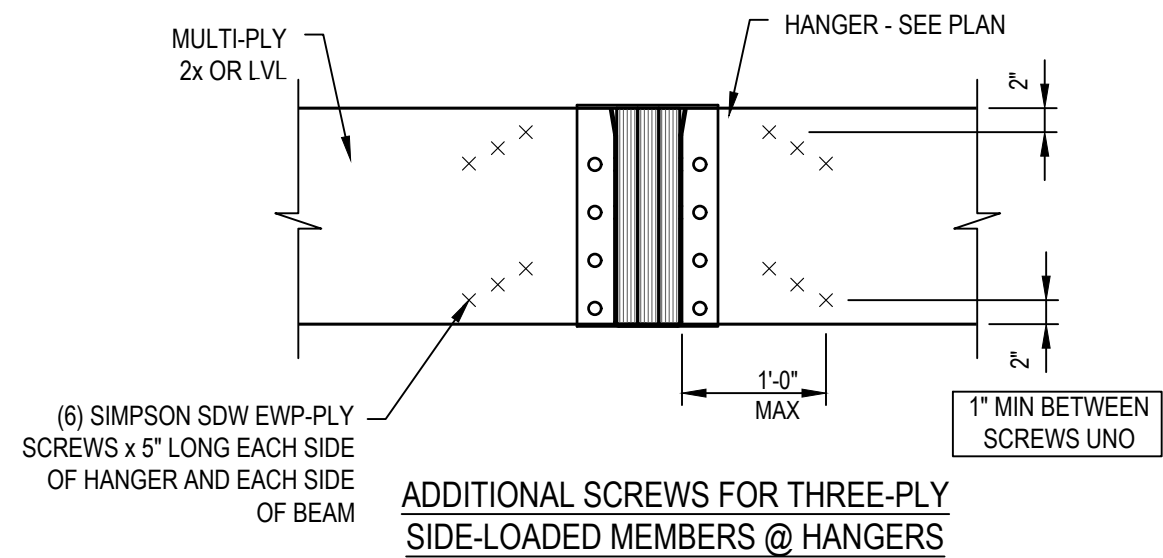
TYPICAL WINDOW AND DOOR

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

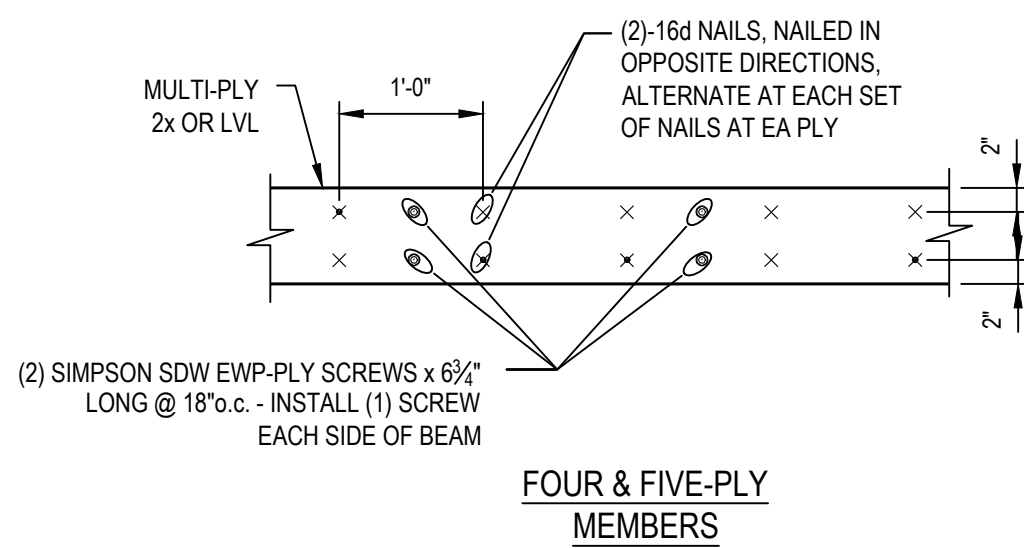


TYPICAL TOP PLATE SPLICE

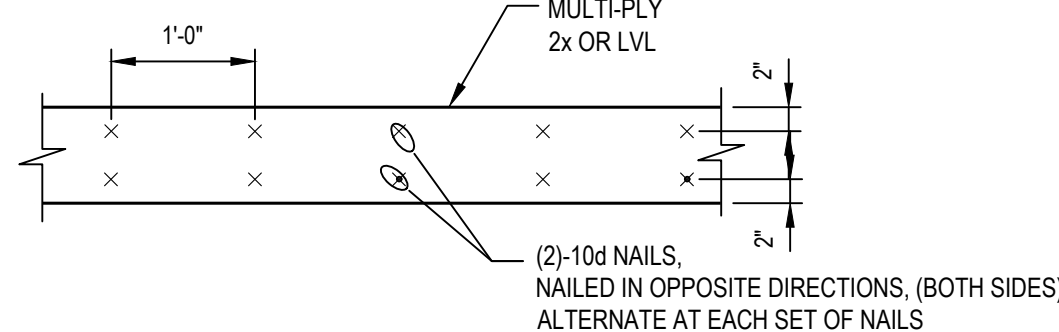
SCALE: 1" = 1'-0"



ADDITIONAL SCREWS FOR THREE-PLY SIDE-LOADED MEMBERS @ HANGERS



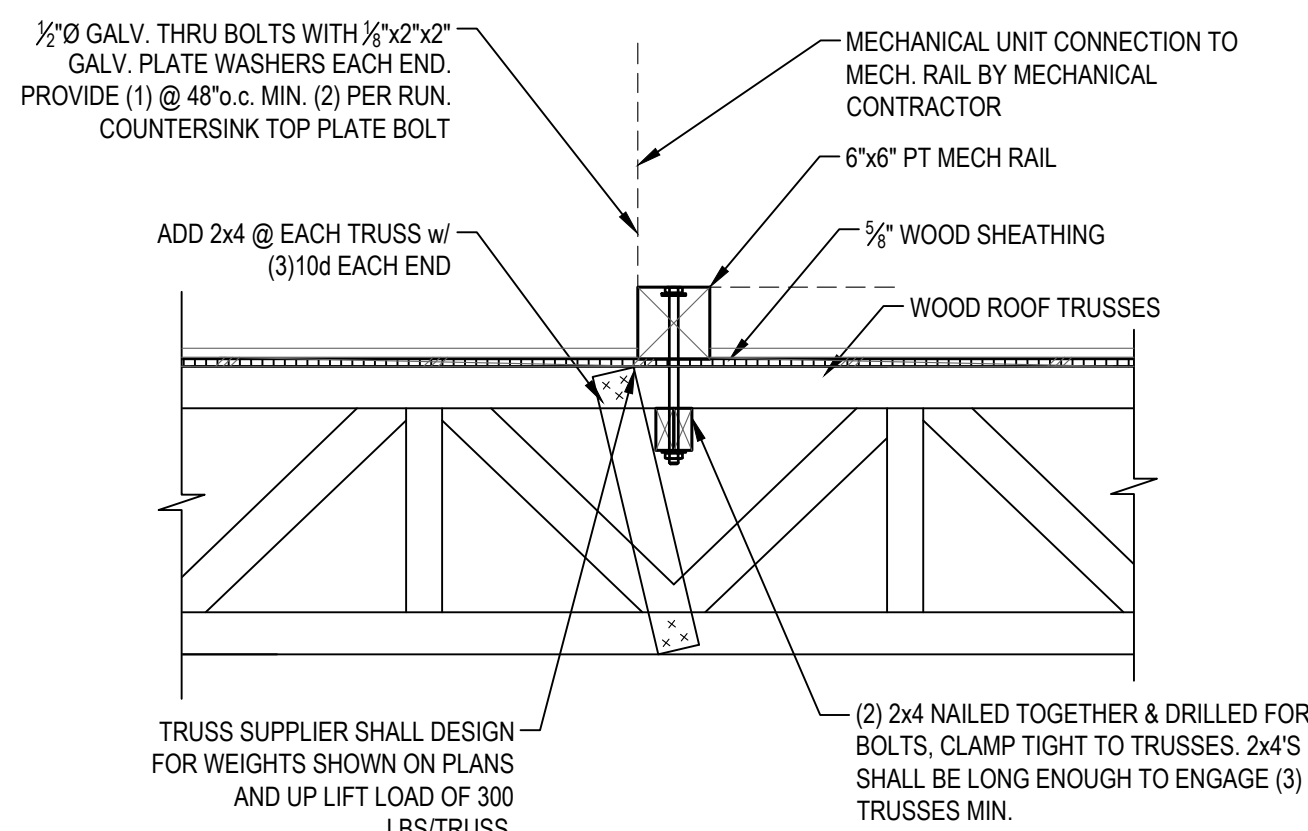
FOUR & FIVE-PLY MEMBERS



TWO-PLY AND THREE-PLY MEMBERS

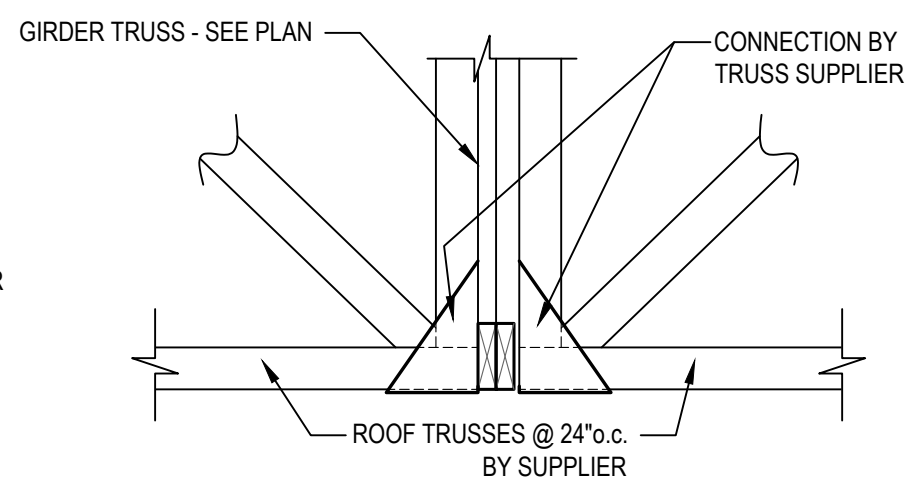
TYPICAL NAILING PATTERN AT MULTI-PLY MEMBERS

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



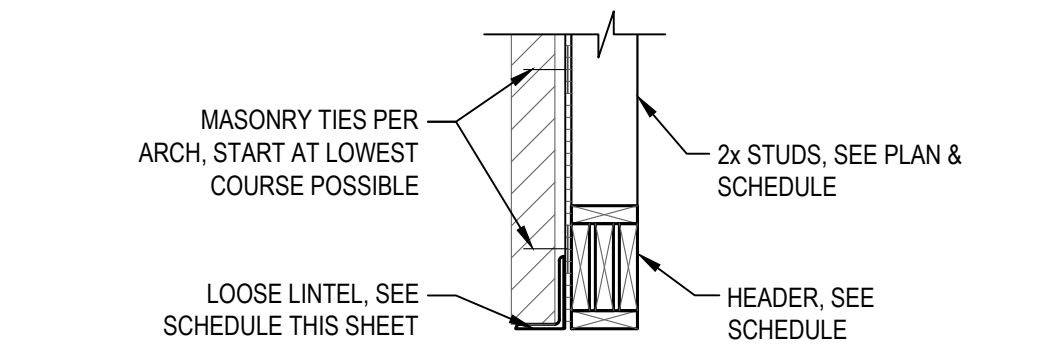
DETAIL @ MECHANICAL CURB

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



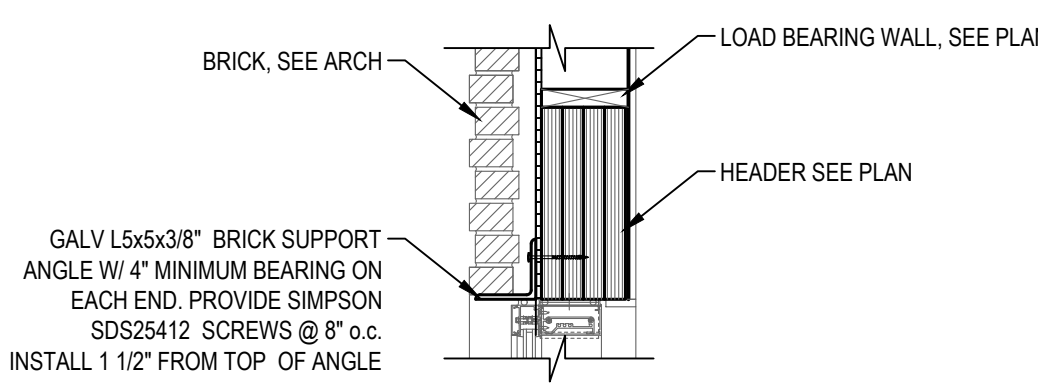
TYPICAL ROOF TRUSS TO GIRDER TRUSS

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



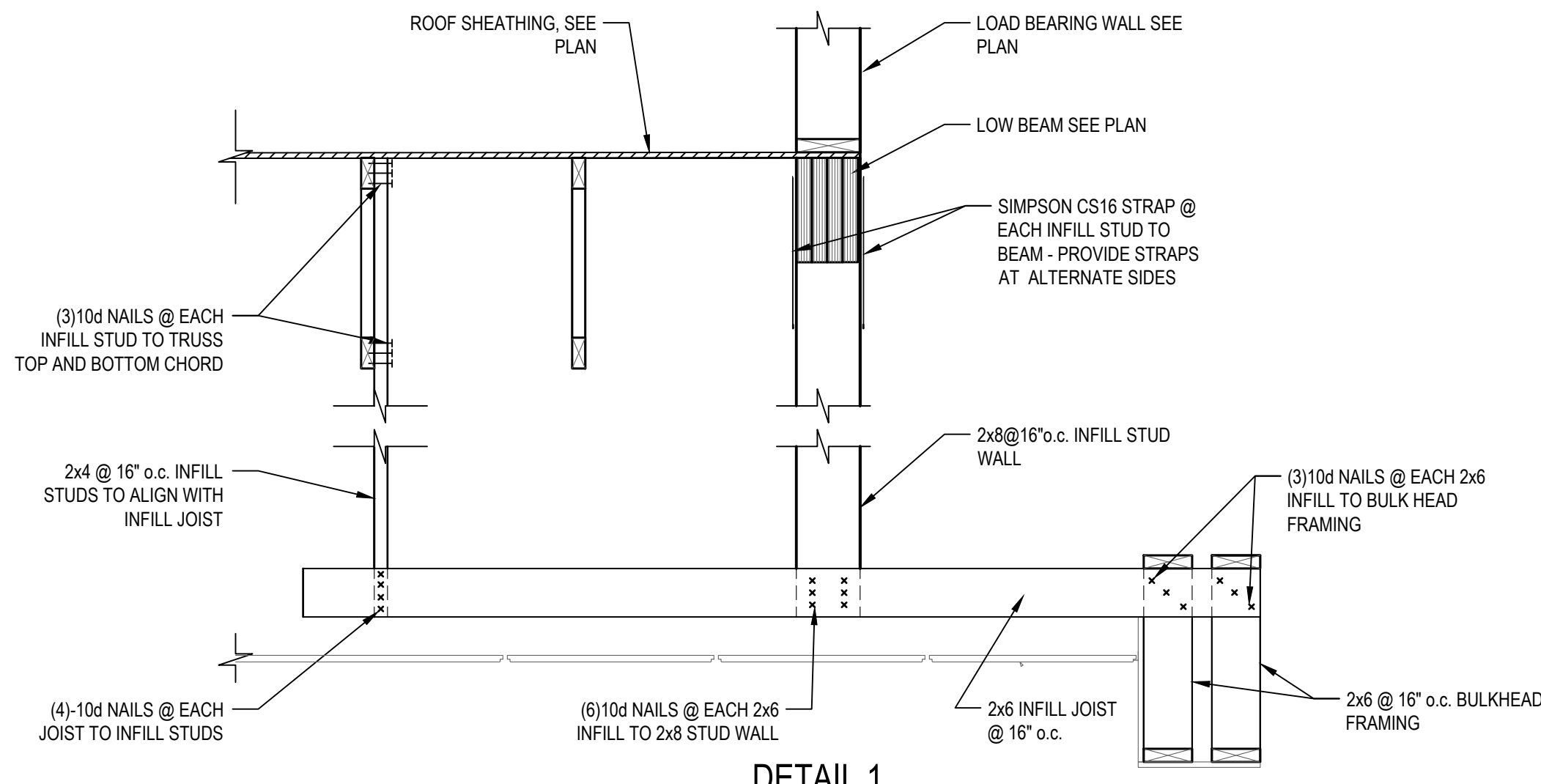
LOOSE LINTEL DETAIL

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



BRICK SUPPORT ANGLE DETAIL FOR OPENING GREATER THAN 12 FT

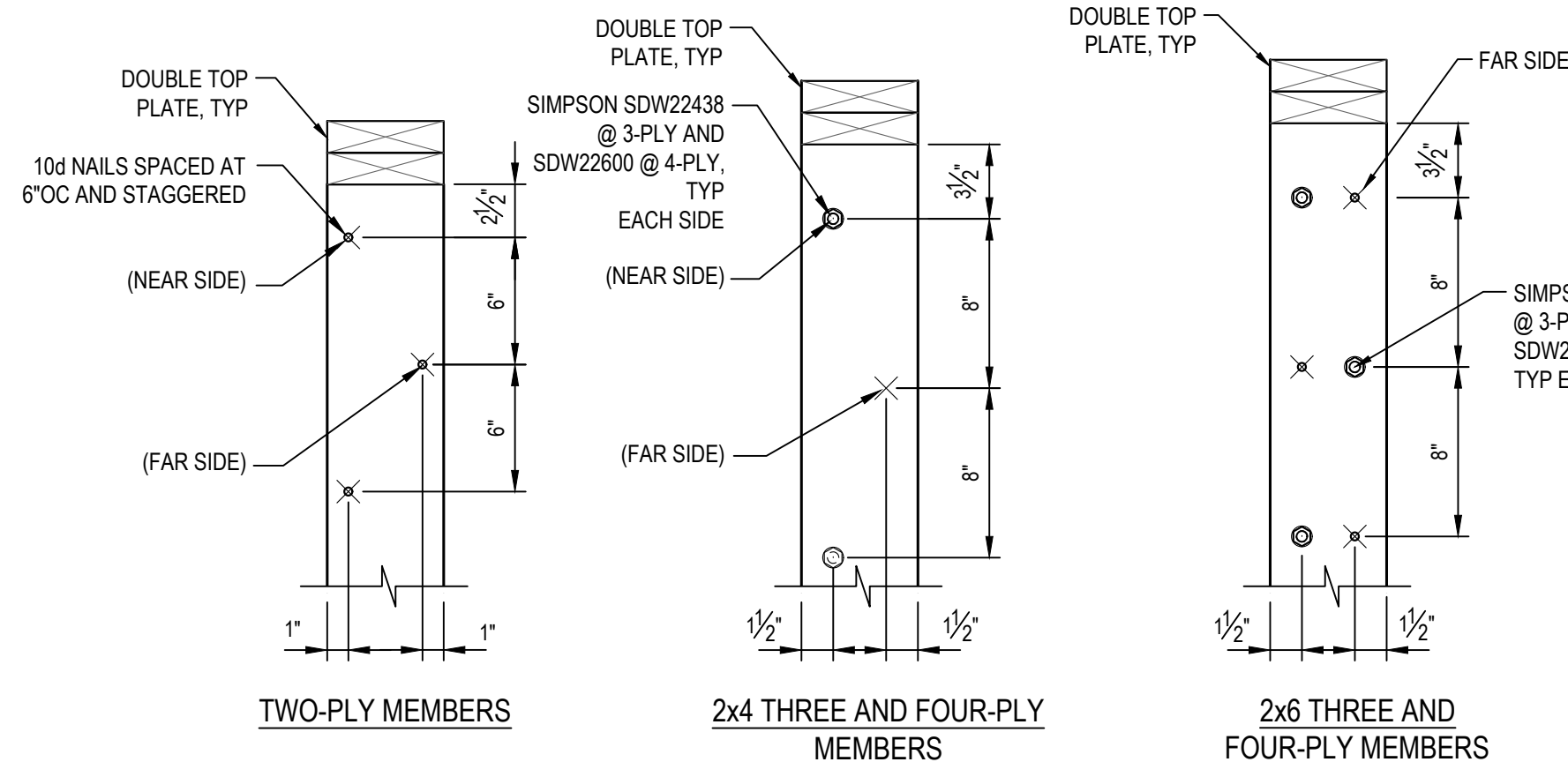
SCALE: NTS = 1'-0"



DETAIL 1

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

SUSPENDED BULKHEAD
@ CIRCULATION DECK



TWO-PLY MEMBERS

2x4 THREE AND FOUR-PLY MEMBERS

2x6 THREE AND FOUR-PLY MEMBERS

TYPICAL NAILING PATTERN AT BUILT-UP STAND ALONE POST

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

GIRDER TRUSS SCHEDULE	BUNDLED STUDS (U.N.O)
MARK	FL #1
GT-1	5
GT-2	6

HEADER SCHEDULE		JAMB REQUIREMENTS
MARK	HEADER REQUIREMENTS	FL #1
H1	(4) 2x8	2K/1J
H2	(4) 2x12	2K/2J
H3	(4) 1 1/2" x 14" LVL	4K/3J
H4	(4) 1 1/2" x 16" LVL	5K/3J
H5	(4) 1 1/2" x 20" LVL	5K/3J

- NOTES:
- 2x's TO HAVE 1/4" SHEATHING OR PLYWOOD BETWEEN PLYS TO FLUSH OUT WITH WALL FRAMING
 - K = KING STUDS / J = JACK STUDS

GLULAM GRADE TABLE	
SIZE	GRADE
3 1/2" x 16"	(24F-V4, SP)
3 1/2" x 19 1/2"	(24F-V4, SP)
5 1/2" x 16"	(30F-2.1E, SP)
5 1/2" x 19 1/2"	(30F-2.1E, SP)
6 1/2" x 24"	(30F-2.1E, SP)
7" x 7" POST	(30F-2.1E, SP)

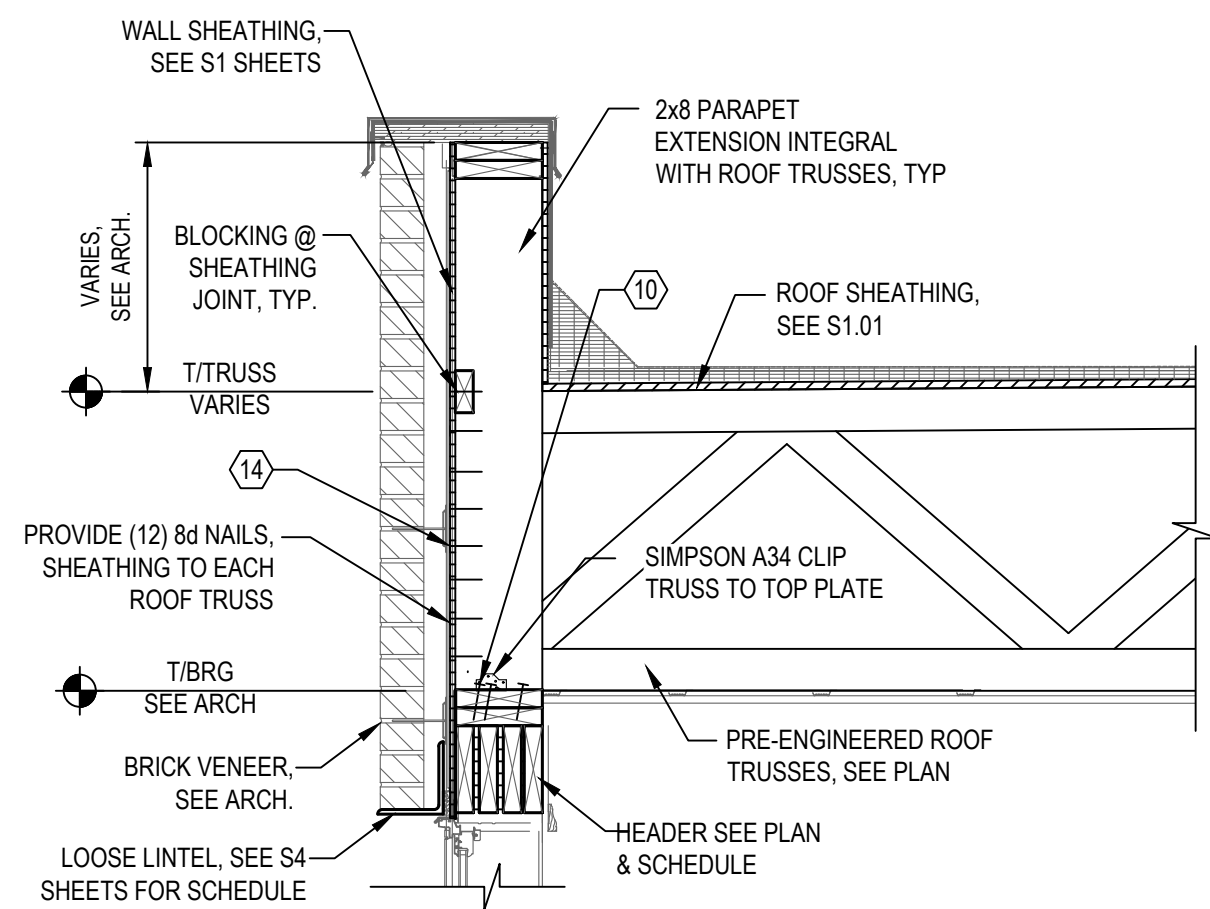
LOAD BEARING WALL (LBW #X) SCHEDULE		
FLOOR LEVEL	STUD WALL REQUIREMENT BY TYPE	
	LBW #1	LBW #2
1st	2x8	1.5" x 7 1/2" LSL
TYP. LOCATION, U.N.O.	INTERIOR AND EXTERIOR WALL SHORTER THAN OR EQUAL TO 16R	INTERIOR AND EXTERIOR WALL TALLER THAN 16R

- NOTES:
- ALL STUDS TO BE LOCATED @ 16" o.c. U.N.O.
 - ALL STUDS TO BE SPF #2 OR BETTER, EXCEPT AS NOTED BELOW AND IN SCHEDULE.
 - SEE GENERAL WALL FRAMING DETAILS ON S4 SHEETS.

HEIGHT OF BRICK ABOVE (FT)	LENGTH OF LINTEL (FT)				
	4	6	8	10	12
4	L4x4x3/8	L4x4x3/8	L6x4x3/8	L6x4x3/8	L7x4x3/8
6	L4x4x3/8	L4x4x3/8	L6x4x3/8	L7x4x3/8	L8x4x3/8
8	L4x4x3/8	L6x4x3/8	L6x4x3/8	L8x4x3/8	L8x4x3/8
10	L4x4x3/8	L6x4x3/8	L6x4x3/8	L8x4x3/8	BP10x4x3/8
12	L4x4x3/8	L6x4x3/8	L7x4x3/8	L8x4x3/8	-

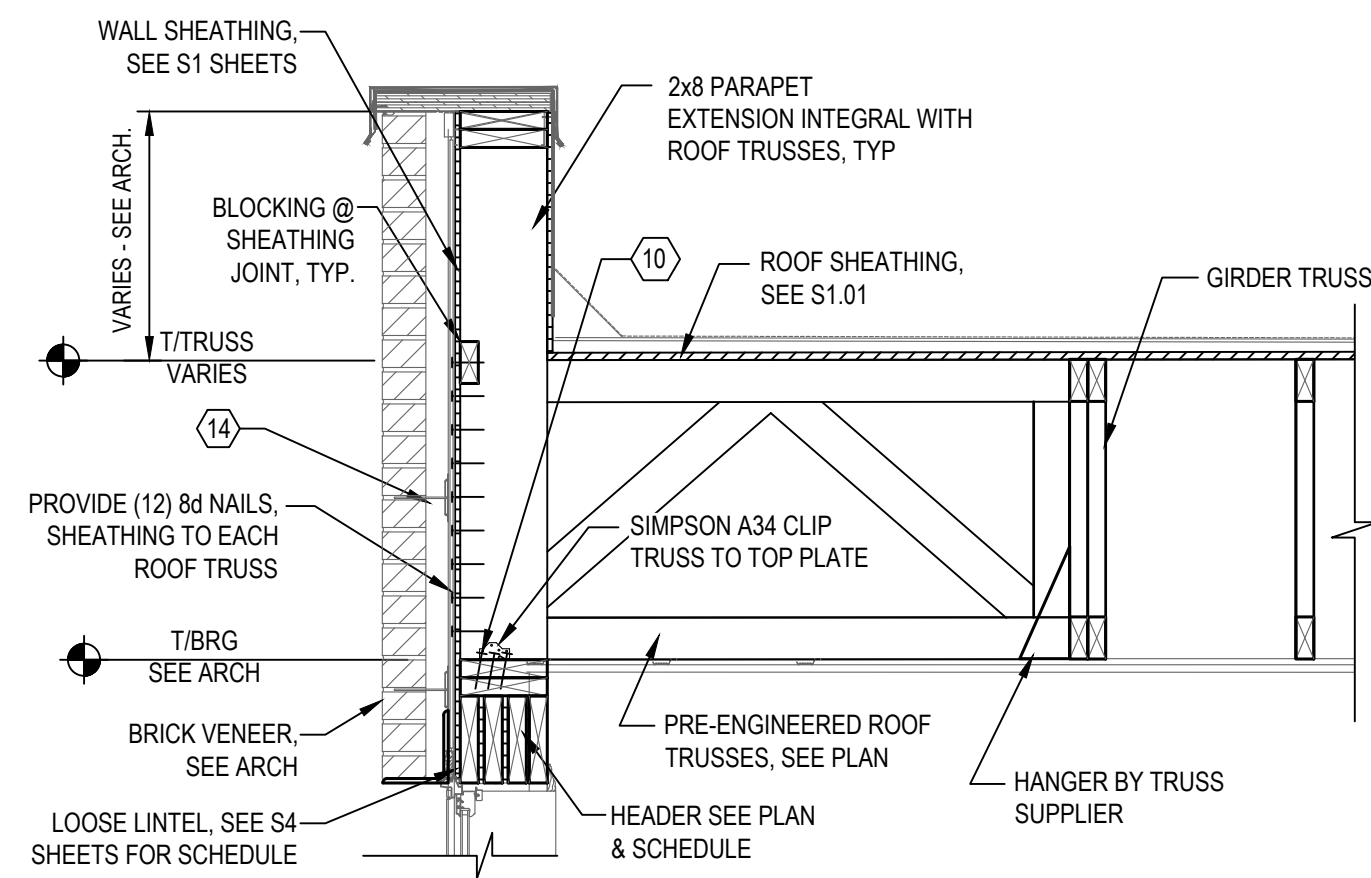
- NOTES:
- WHERE LINTELS BEAR ON HOLLOW MASONRY UNITS FILL ALL CORES UNDER BEARING WITH GROUT FROM BOTTOM OF LINTEL TO 16" MINIMUM BELOW.
 - THESE LINTELS ARE NOT DESIGNED FOR MASONRY WALLS THAT CARRY FLOOR OR ROOF LOAD.
 - LINTELS ARE DESIGNED TO CARRY THE MAXIMUM HEIGHT OF BRICK LISTED IN SCHEDULE. IF STACKED BRICK HEIGHT EXCEEDS LISTED VALUE, THEN CONTACT STRUCTURAL ENGINEER FOR ALTERNATE DESIGN.
 - ALL STEEL LINTELS SHALL BE HOT DIP GALVANIZED.
 - SEE DETAIL BELOW FOR REQUIREMENTS
 - ALL LINTELS HAVE LONG LEG VERTICAL U.N.O.
 - "BP" INDICATES STEEL BENT PLATE

MARK	BEAM REQUIREMENT	BEAM SCHEDULE		
		BUNDLE STUDS (U.N.O)	HANGERS (U.N.O)	CONCEALED FLANGE HANGERS @ EXPOSED BEAM LOCATIONS
(3)LVL12	(3) 1 1/2"x11 1/2" LVLs	4	HGU5.50/14	MGU5.5-SDS
(3)LVL18	(3) 1 1/2"x18" LVLs	4	HGU5.50/14	MGU5.5-SDS
(4)LVL12	(4) 1 1/2"x11 1/2" LVLs	5	HGU5.75-SDS	HGU5.75-SDS
GL 3 1/2"x16"	3 1/2"x16" GLULAM	4	LGU3.63-SDS	CBH2.37 x 7.63
GL 3 1/2"x19 1/2"	3 1/2"x19 1/2" GLULAM	5	MGU3.63-SDS	CBH2.37 x 9.75
GL 5 1/2"x16"	5 1/2"x16" GLULAM	5	MGU5.5-SDS	CBH2.37 x 9.75
GL 5 1/2"x19 1/2"	5 1/2"x19 1/2" GLULAM	6	MGU5.5-SDS	ACBH 3 x 15.37
GL 6-3/4"x24"	6 3/4"x24" GLULAM	6	NA	ACBH 3 x 15.37



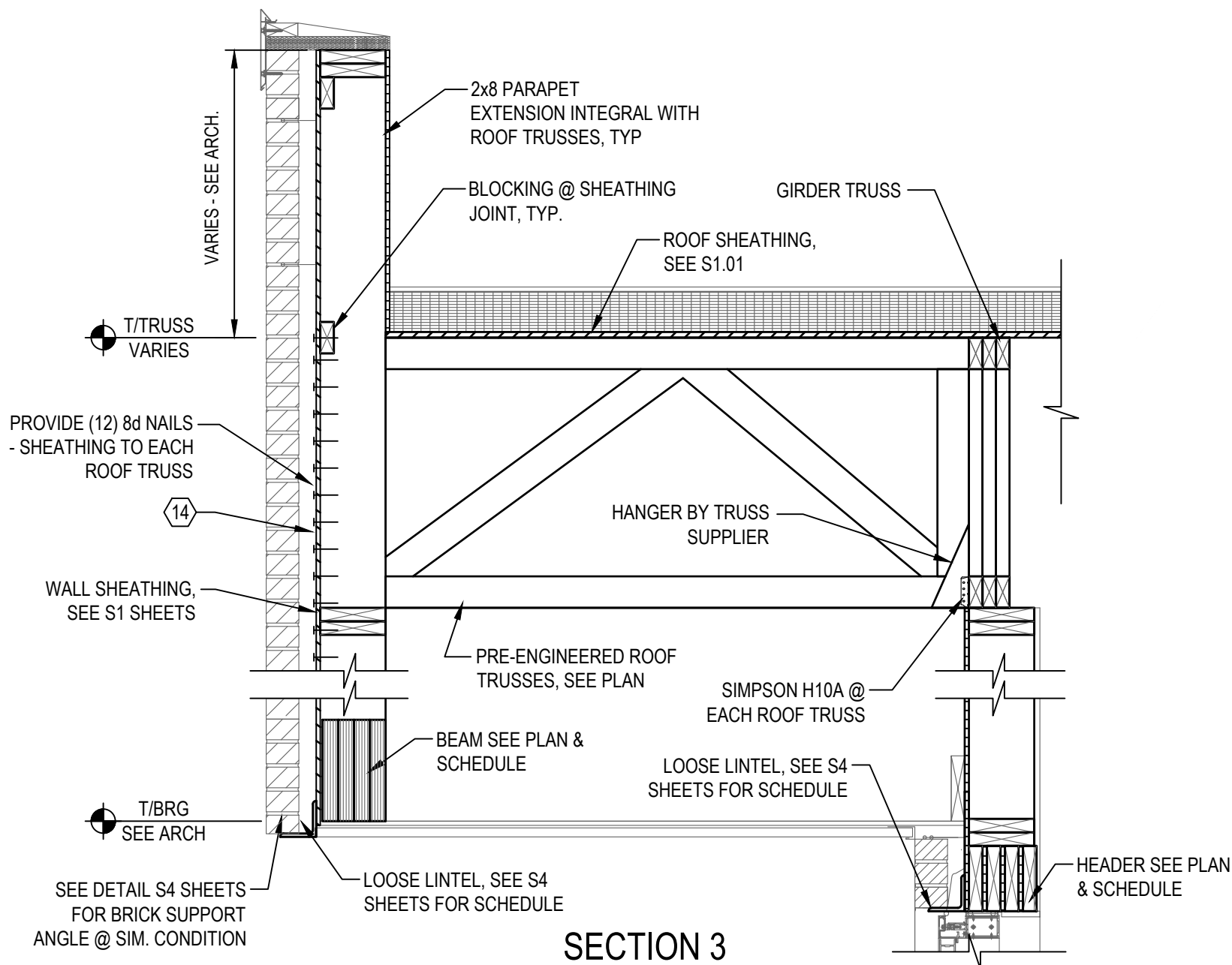
SECTION 1

SCALE: 3/4" = 1'-0"
EXTERIOR WALL @ ROOF
PERPENDICULAR TO MAIN TRUSSES



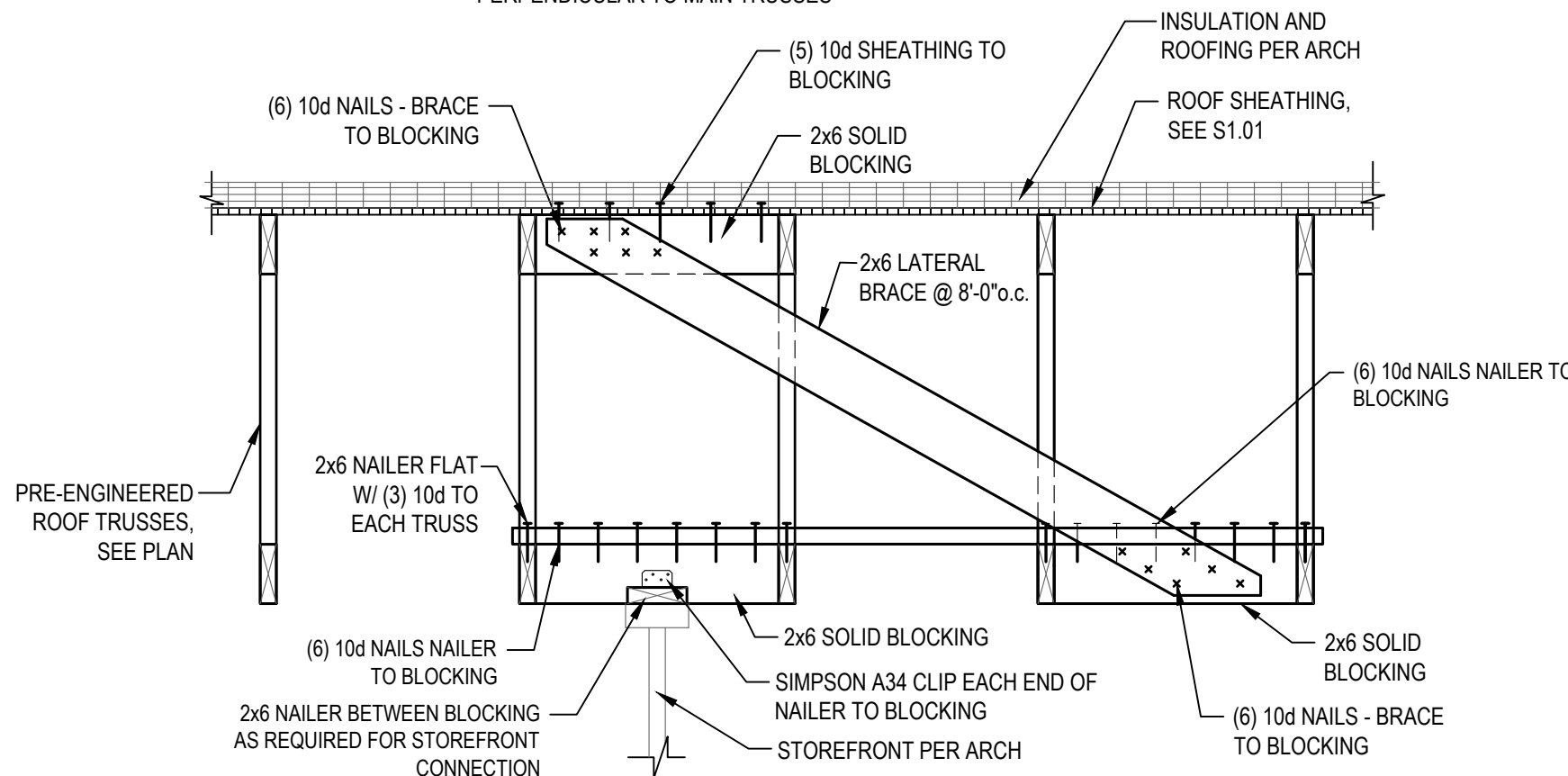
SECTION 2

SCALE: 3/4" = 1'-0"
TYPICAL @ EXTERIOR WALL PARALLEL TO LONG TRUSSES



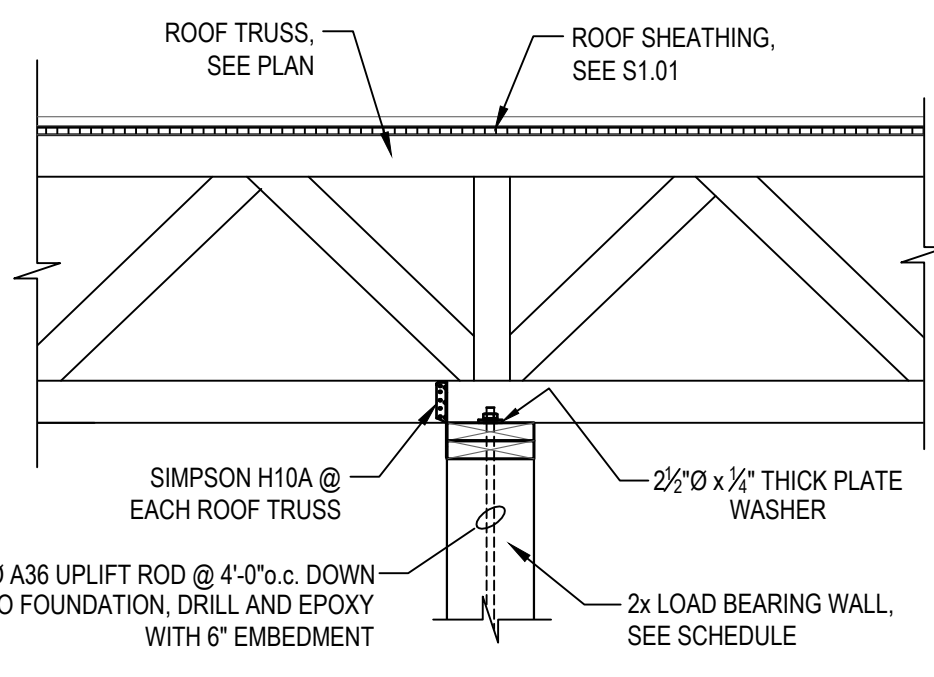
SECTION 3

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



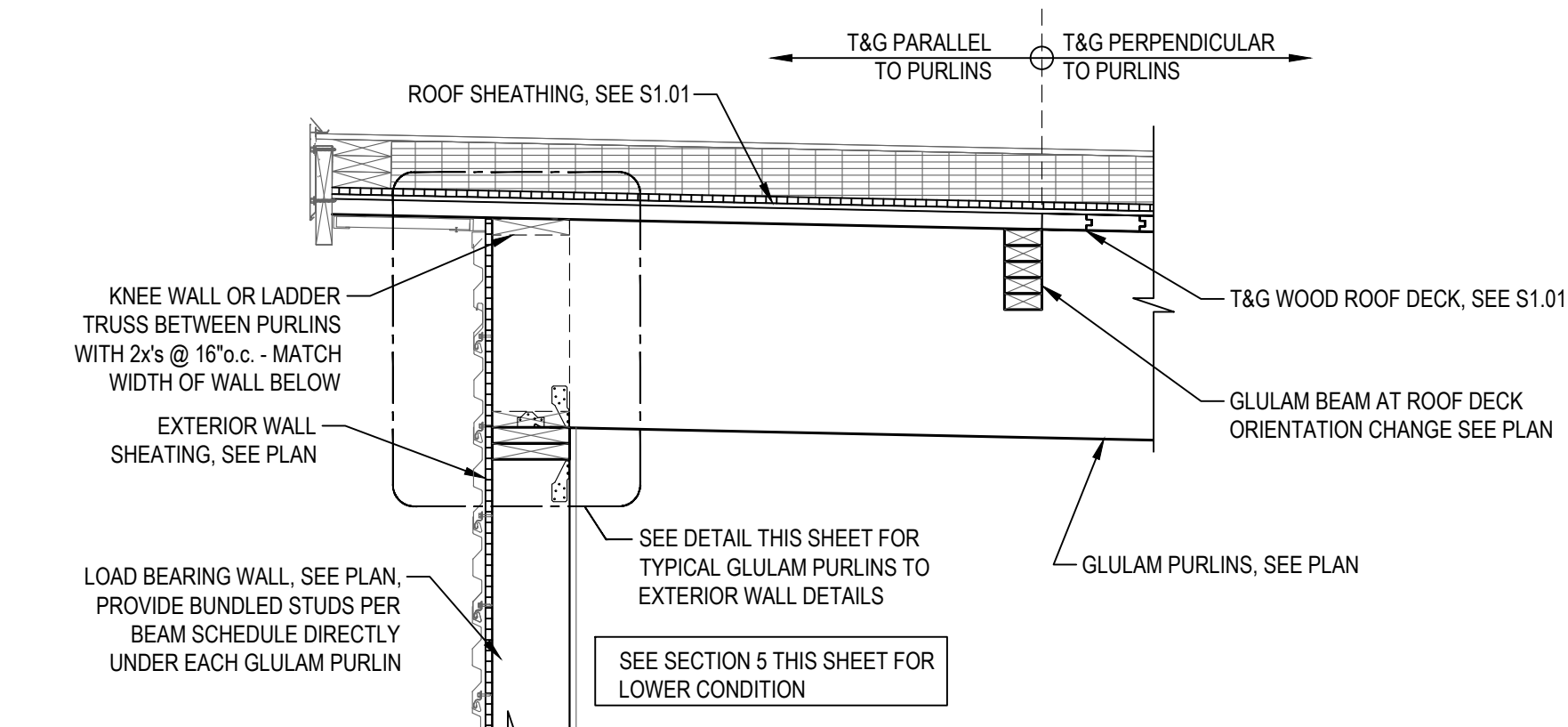
SECTION 4

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



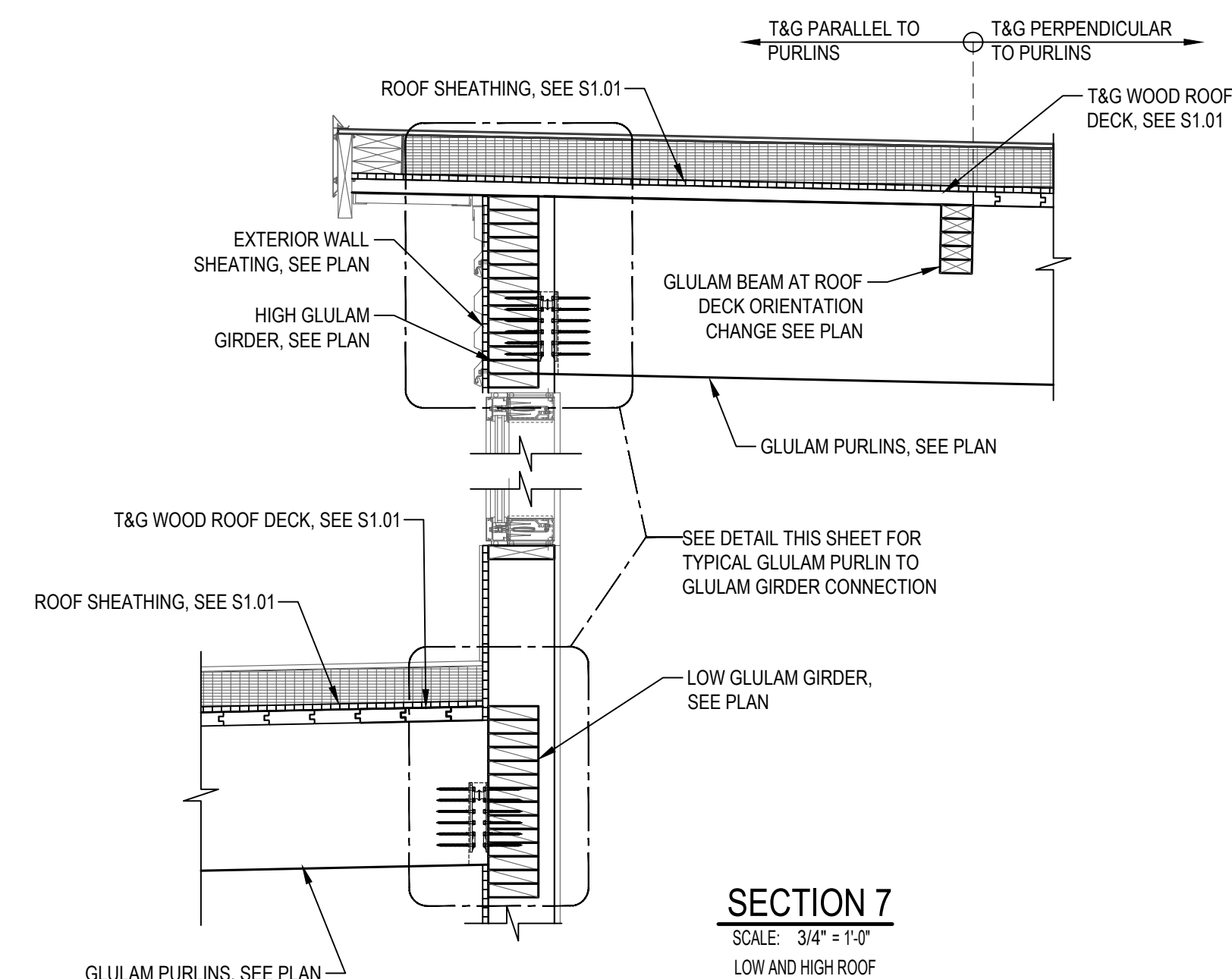
SECTION 5

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



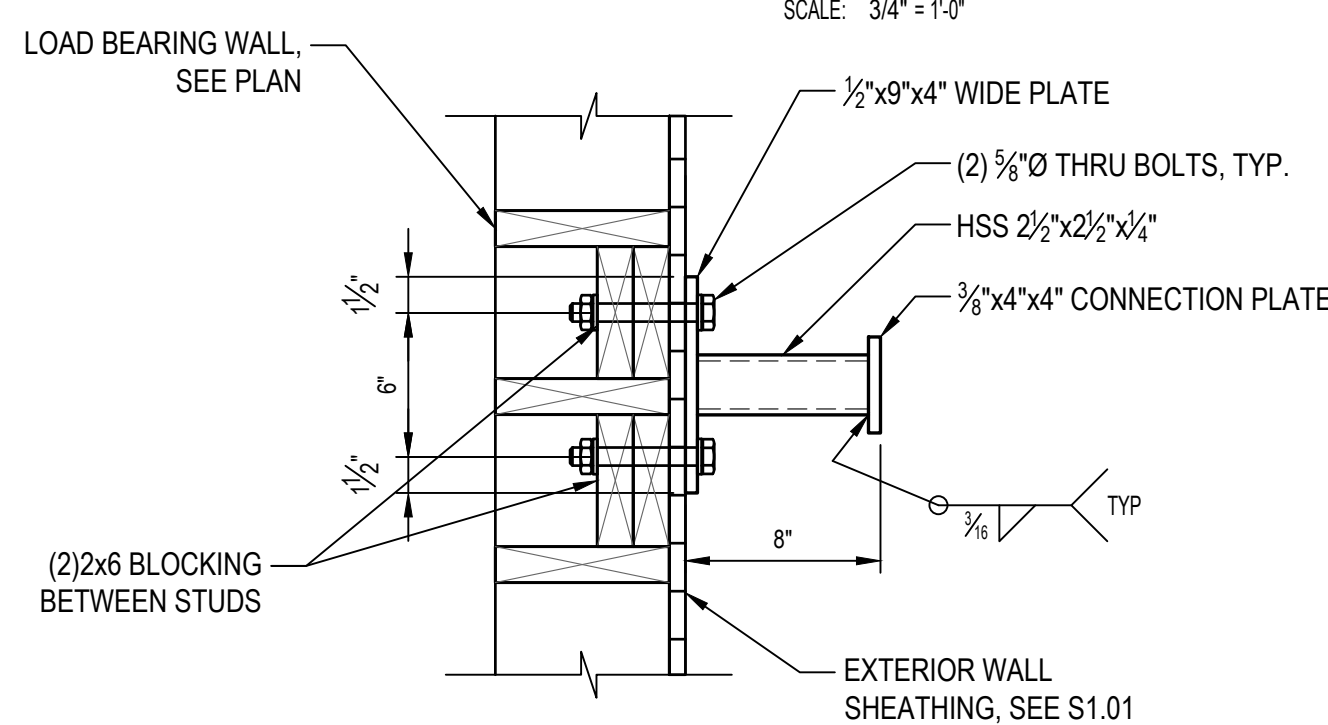
SECTION 6

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



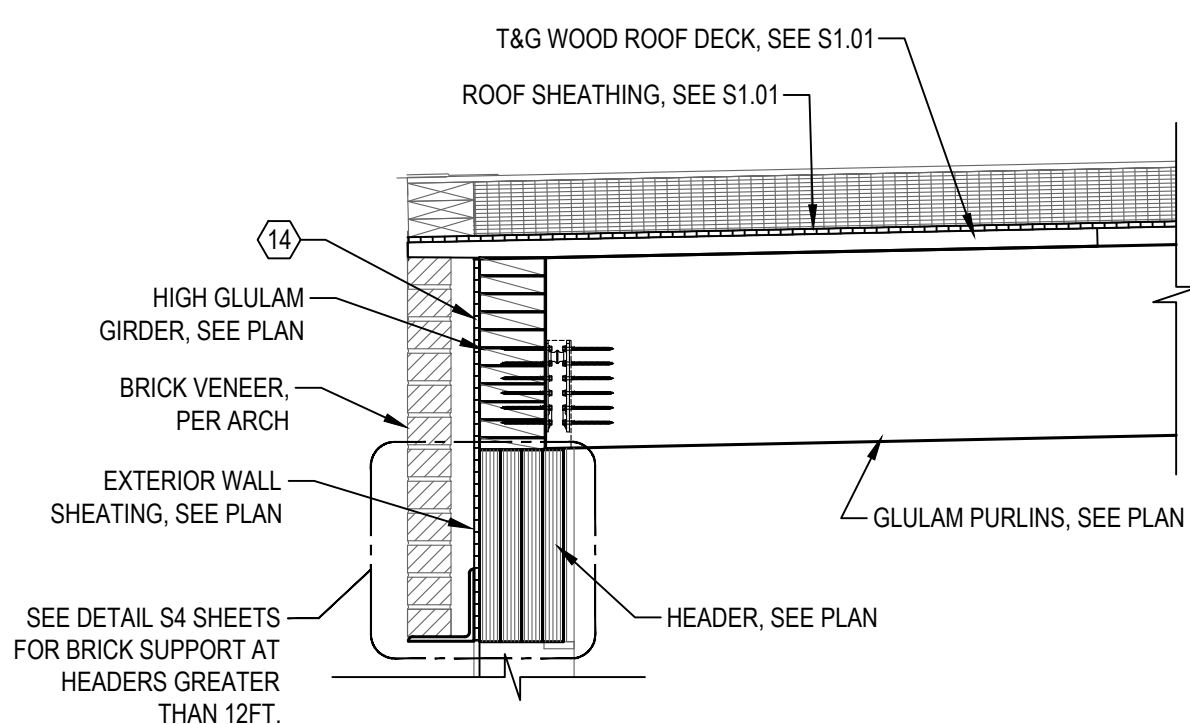
SECTION 7

SCALE: 3/4" = 1'-0"
LOW AND HIGH ROOF



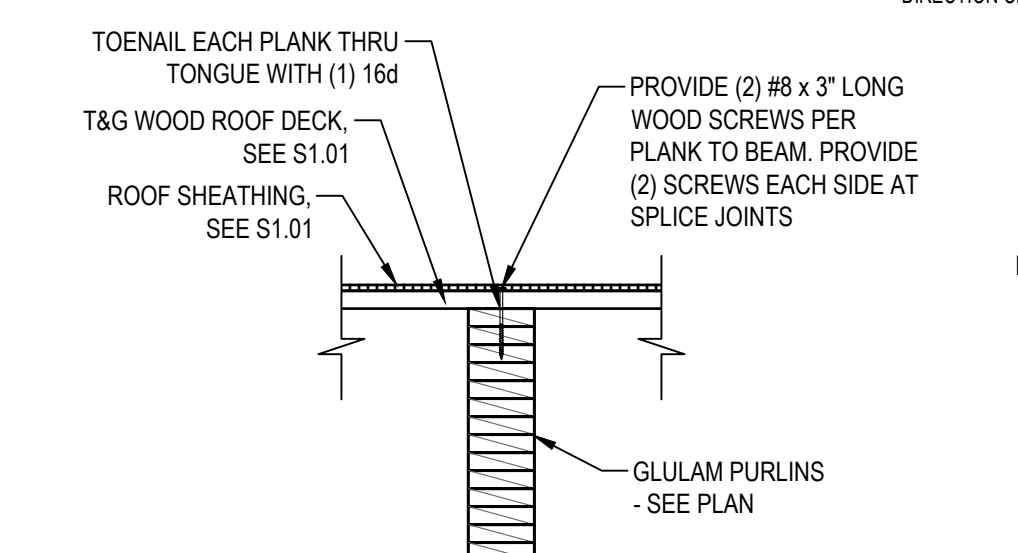
DETAIL A

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



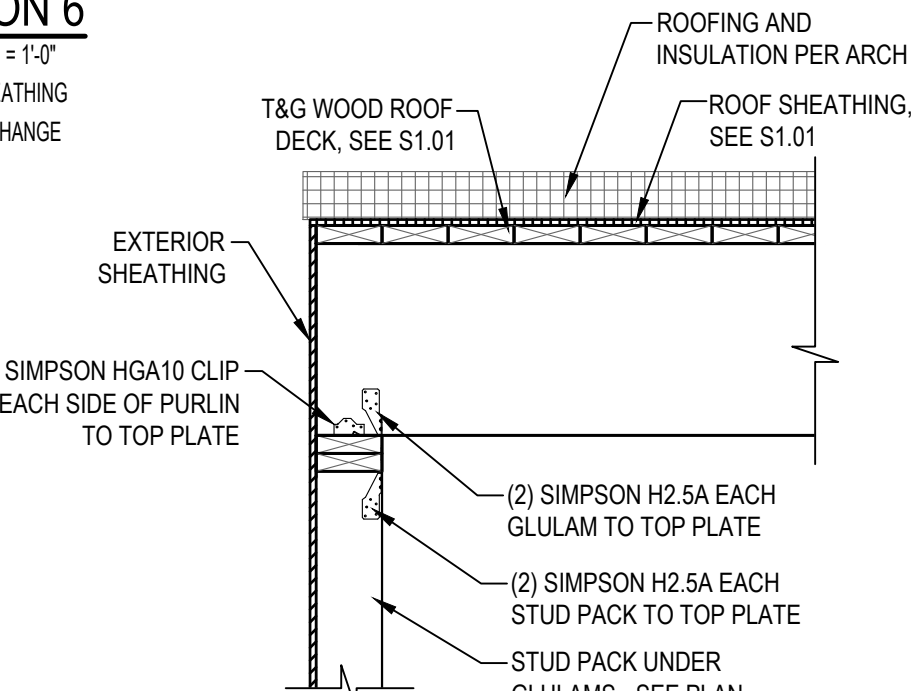
SECTION 8

SCALE: 3/4" = 1'-0"
LOW AND HIGH ROOF



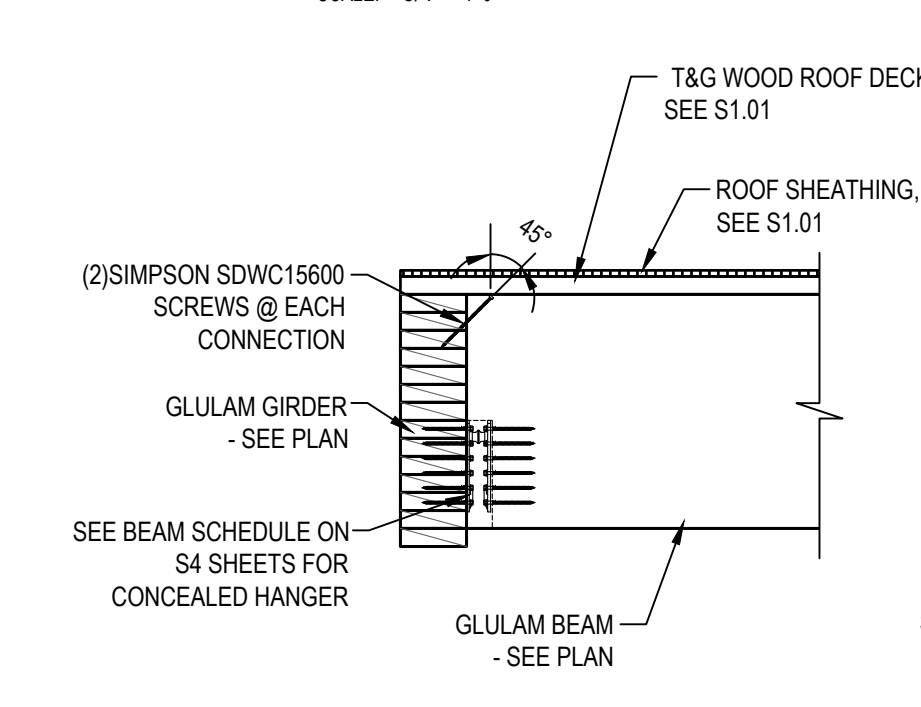
T&G WOOD ROOF DECK, SEE S1.01 ATTACHMENT
TO GLULAM PURLINS DETAIL

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



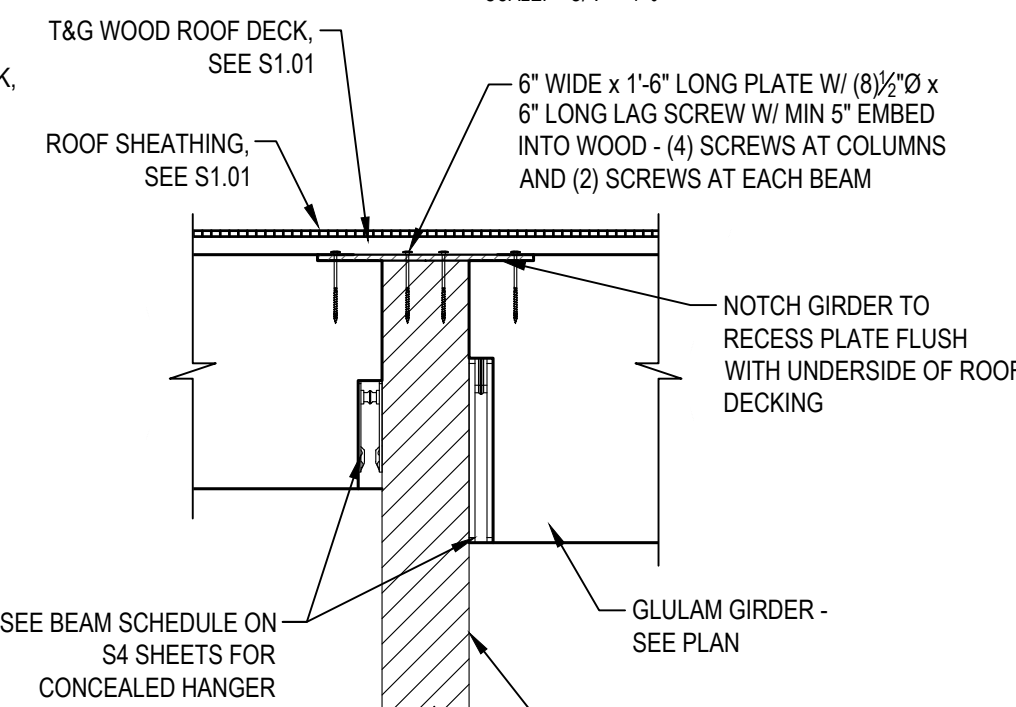
GLULAM PURLINS
TO EXTERIOR WALL DETAIL

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



GLULAM PURLIN TO
GLULAM GIRDER FRAMING

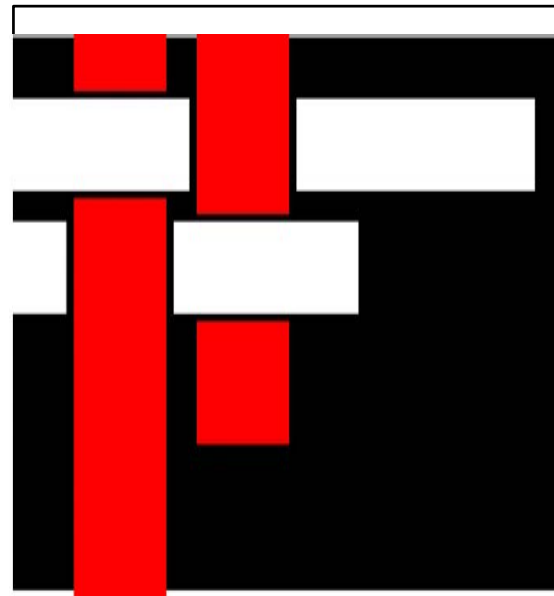
SCALE: 3/4" = 1'-0"



GLULAM GIRDER TO GLULAM
COLUMN FRAMING

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

FRAMING SECTION FASTENING SCHEDULE			
MARK	LOCATION	FASTENER REQUIREMENTS	COMMENTS
10	ROOF TRUSS TO TOP PLATE	(3)10d TOENAILS PER TRUSS	
14	EXTERIOR SHEATHING AT FLOOR LEVEL	TYPICAL NO SPLICE ZONE	SEE DETAIL ON S4 SHEETS
15	(2) 2x8 LOW ROOF LEDGER	(2) SDWS22600DB@ EACH STUD	INSTALL SCREWS 1 1/2" FROM TOP AND BOTTOM OF LEDGER



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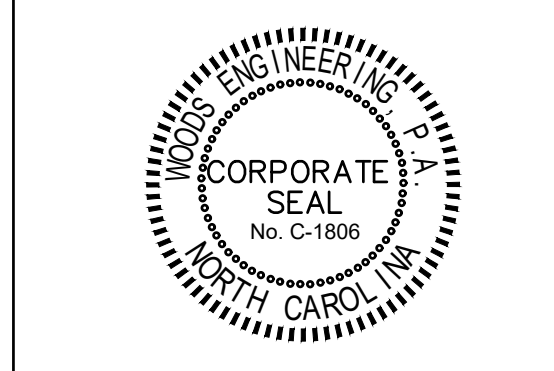
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Suite 100
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Phone: (919) 319-5718
Fax: (919) 319-7516
A: CLH
P: CLH

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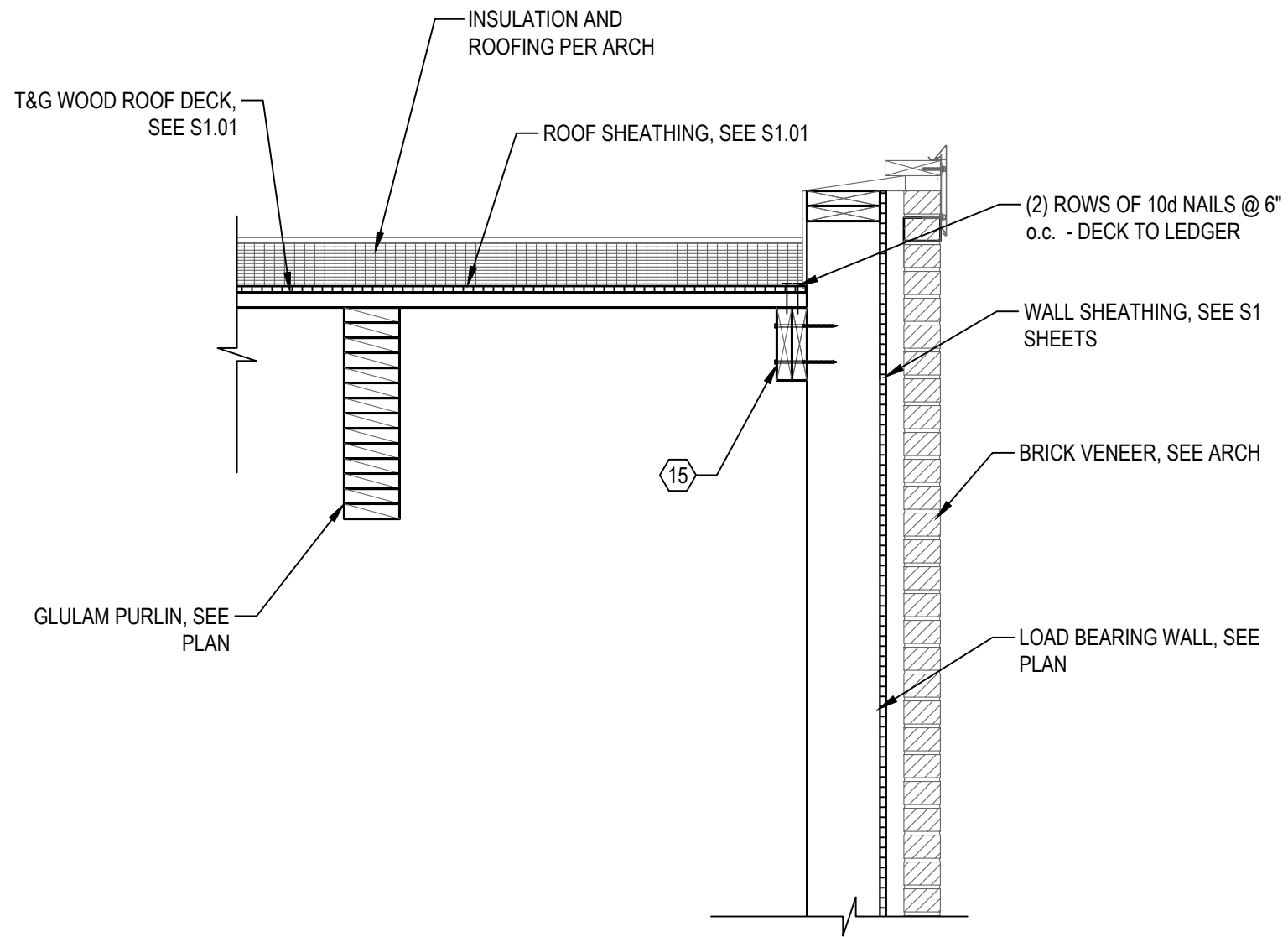
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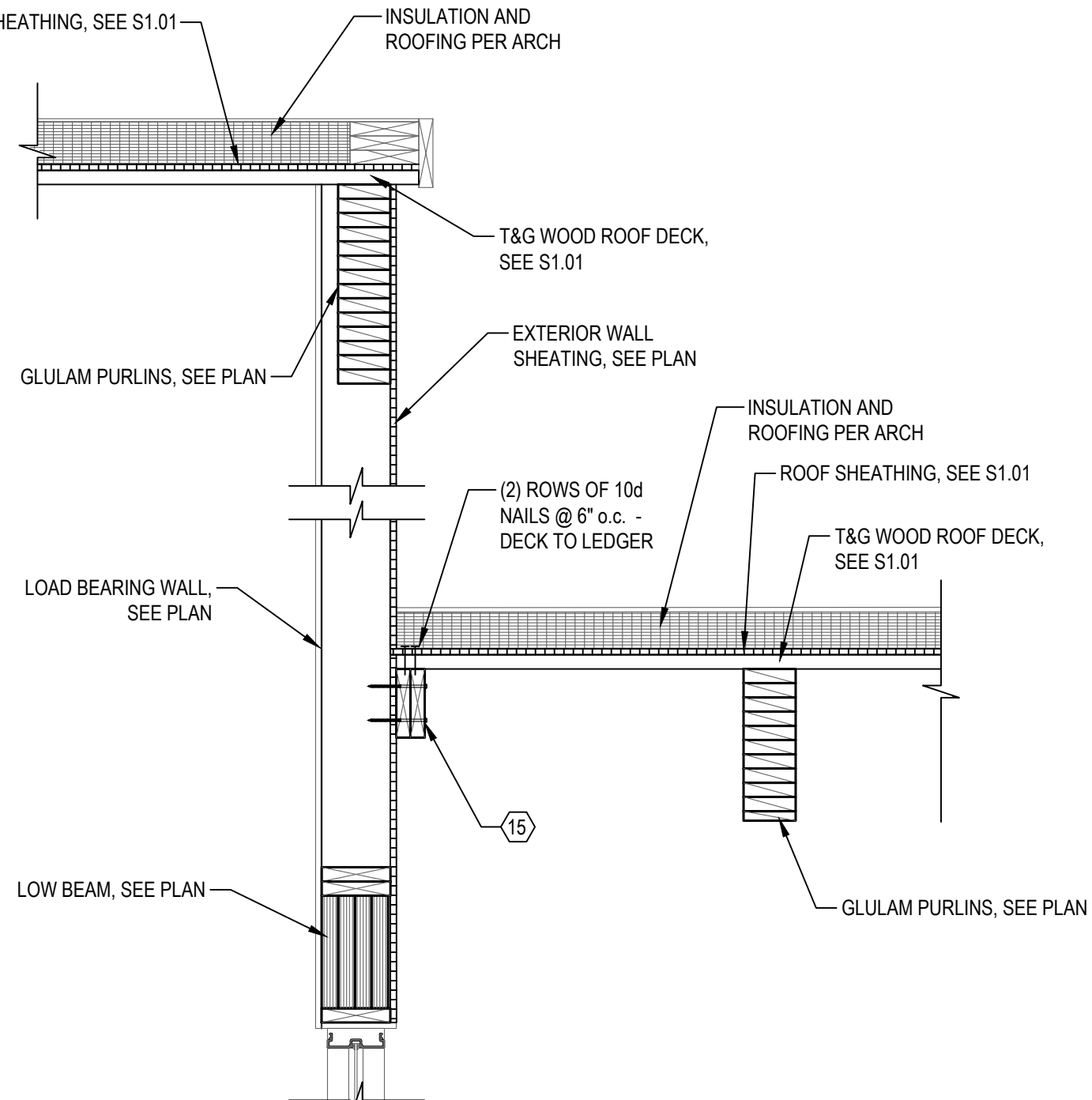
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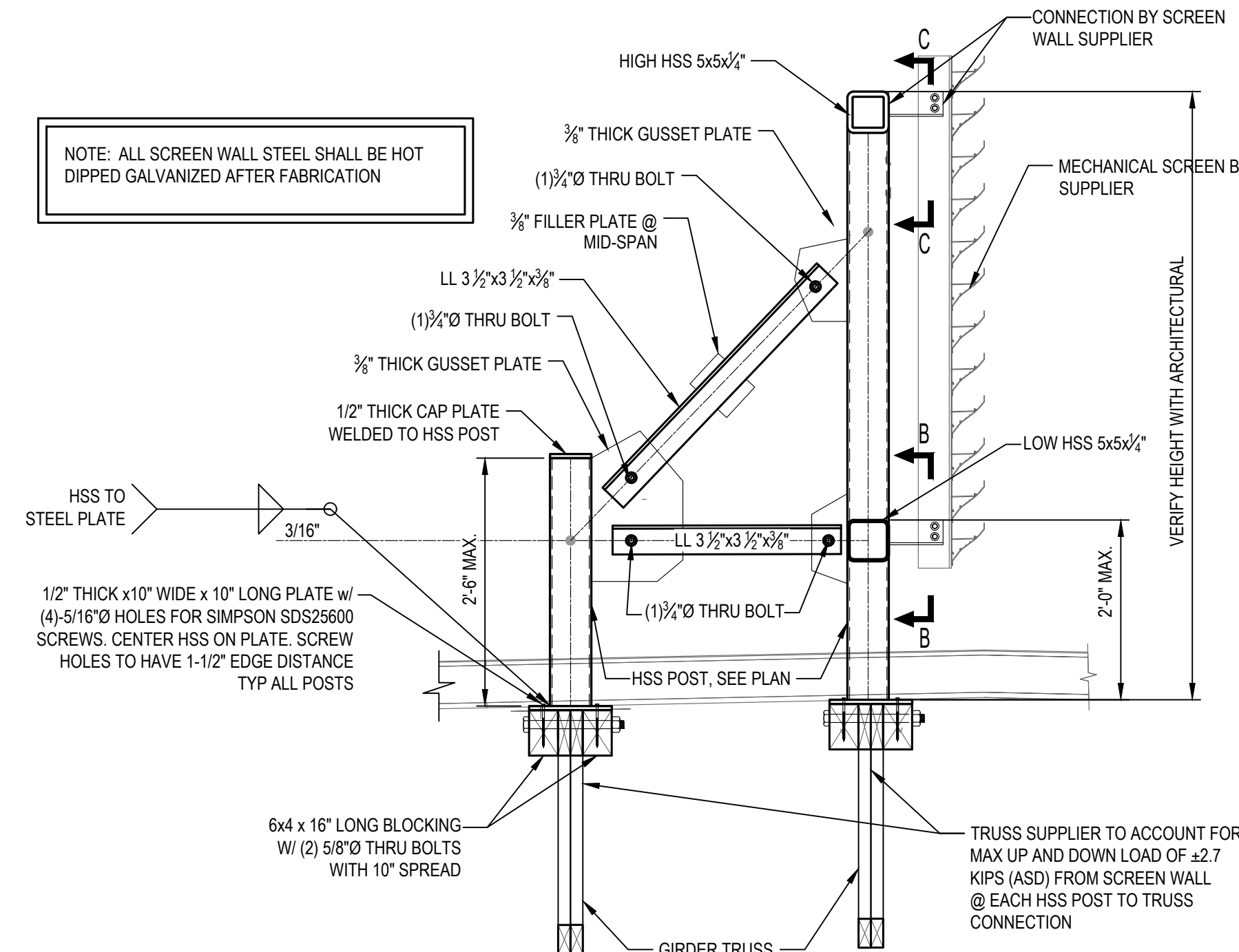
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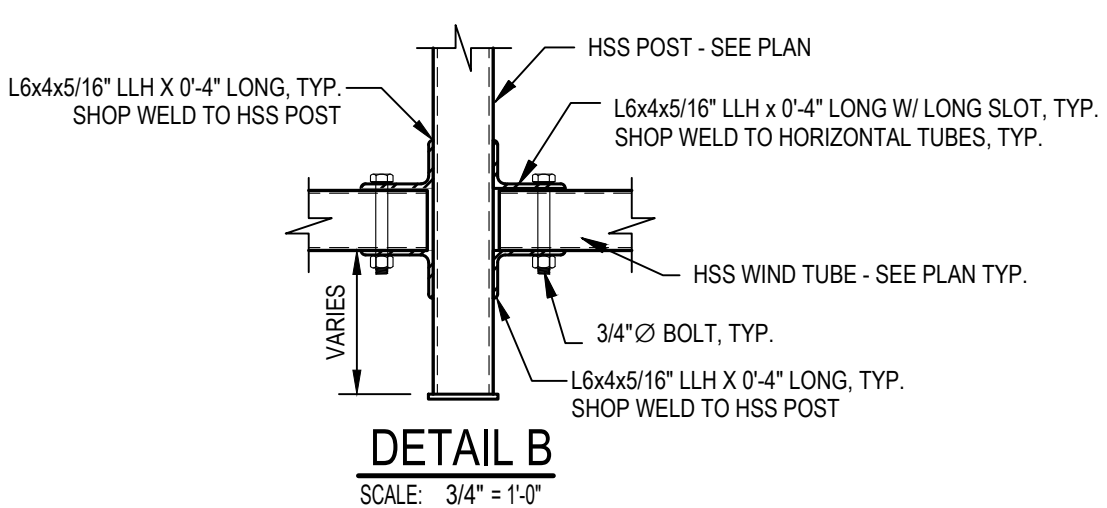
SECTION 9
SCALE: 3/4" = 1'-0"



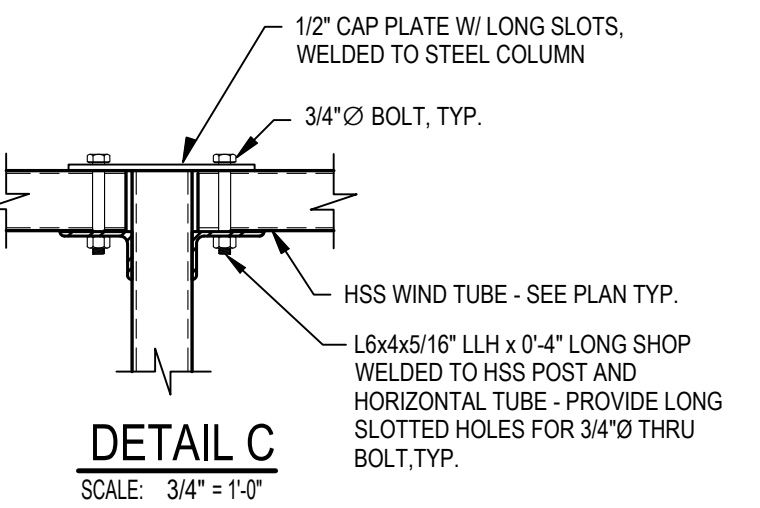
SECTION 10
SCALE: 3/4" = 1'-0"



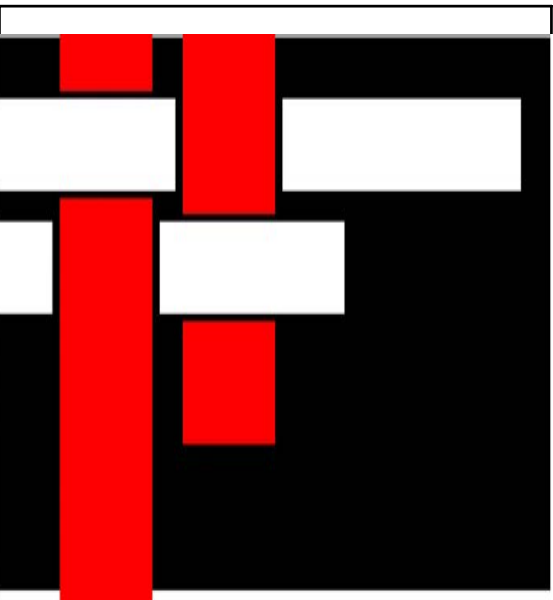
SECTION 11
SCALE: 3/4" = 1'-0"
@ EXTERIOR SCREEN WALL



DETAIL B
SCALE: 3/4" = 1'-0"



DETAIL C
SCALE: 3/4" = 1'-0"



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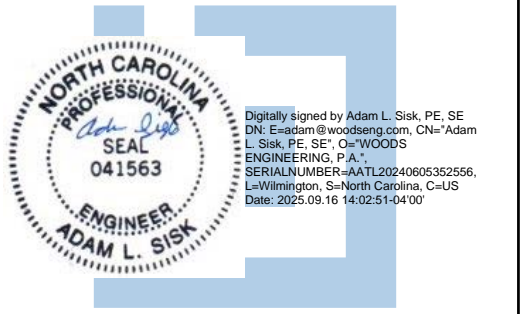
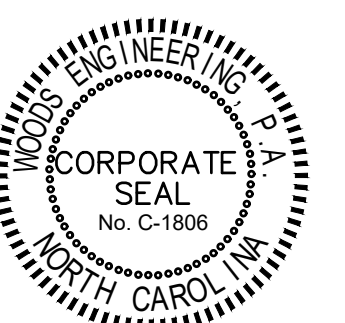
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A: C-1006
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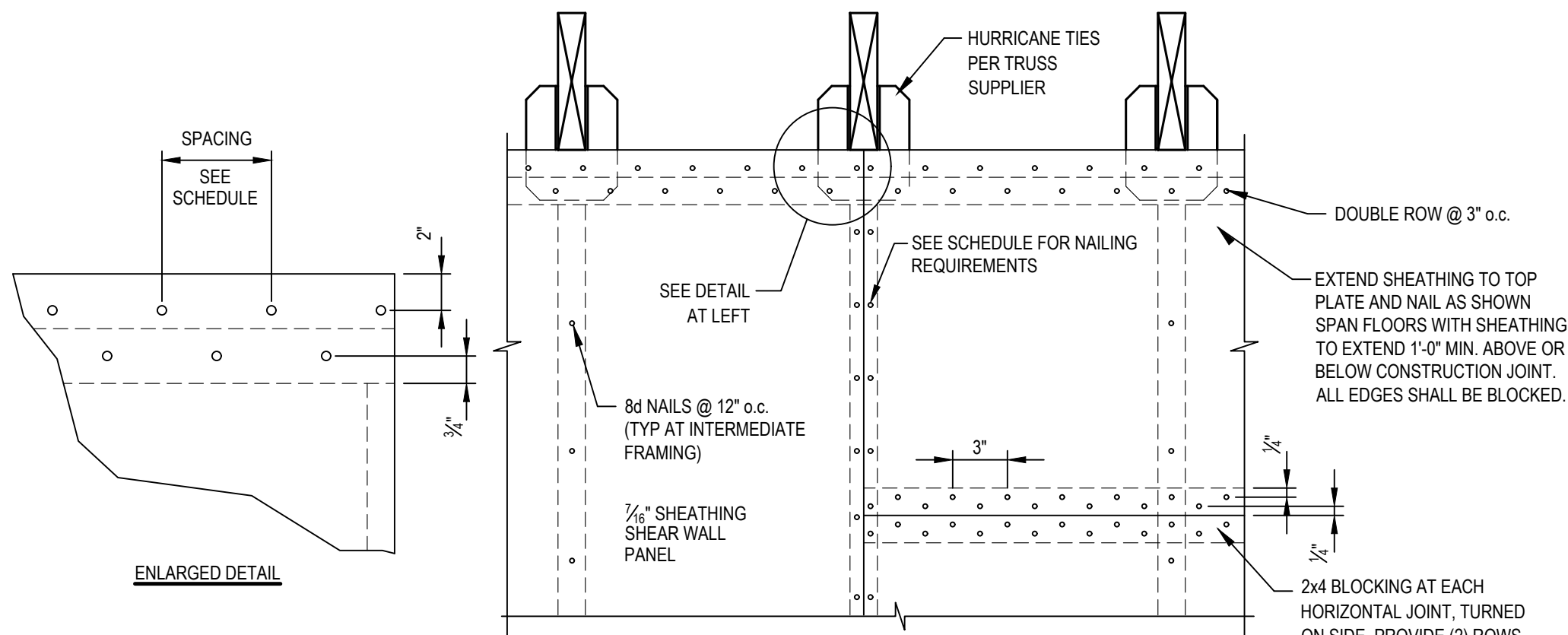
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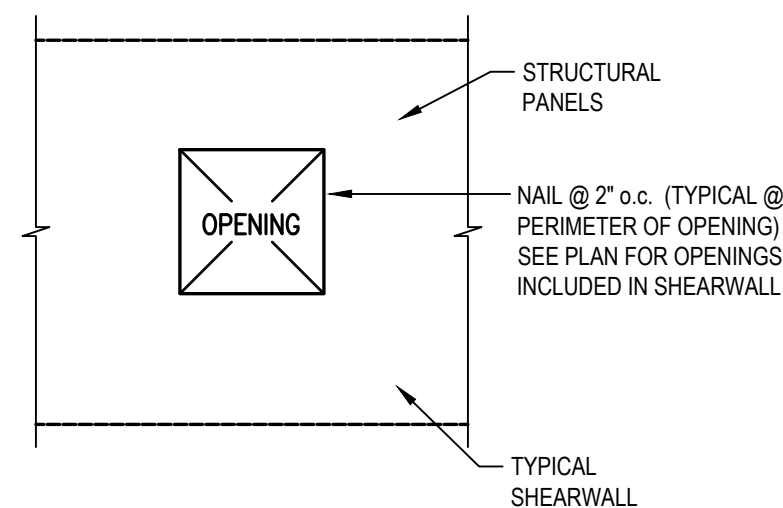
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S4.12

SEE S4.11 FOR FRAMING SECTION
FASTENING SCHEDULE



DETAIL B
SCALE: 1 1/2" = 1'-0"
TYPICAL SHEATHING SHEAR WALL NAILING PATTERN



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

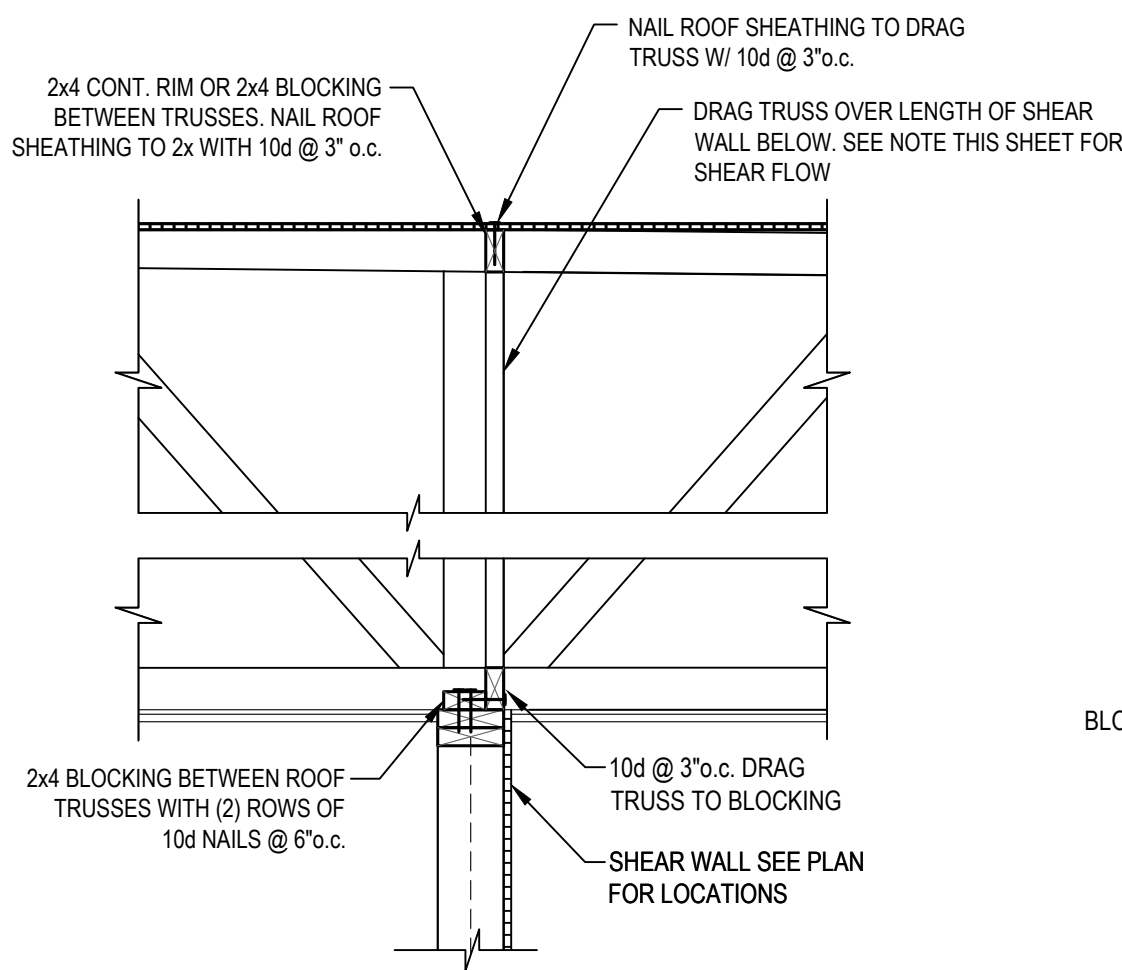
SHEAR WALL NOTES:

- FOR GENERAL FRAMING INFORMATION, SEE SHEET S-101
- SHEAR WALL SHEATHING SHALL BE 7/16" SHEATHING OR PLYWOOD WITH 8d NAILS @ 3" o.c. AT EDGES AND 12" o.c. IN FIELD (NOTED AS TYP). SEE SCHEDULES THIS SHEET FOR ADDITIONAL INFORMATION
- PROVIDE SIMPSON HDU5-SDS2.5 WITH 5/8" Ø ROD AND (2) STUDS AROUND DOOR OPENINGS AT THE BOTTOM FLOOR.
- ALL RODS SHALL BE ASTM A36. SEE TABLE THIS SHEET FOR CAPACITIES USED IN DESIGN
- ALL STUDS SHALL MATCH LOAD BEARING WALL SPACING AND SPECIES.
- PSL = 1.8E PARALLAM PSL BY WEYERHAEUSER.
- ALL ROD HOLDDOWNS TO BE LOCATED A MAXIMUM DISTANCE OF 12" FROM END OF WALL. (TYP. OF ALL SHEAR WALLS)
- EPOXY SHALL BE HILTI HY-200. SEE TABLE THIS SHEET FOR REQUIRED EMBEDMENT.
- ALL HOLDDOWN RODS LOCATED ON EXTERIOR WALL SHALL BE CAST-IN-PLACE.
- HOLES DRILLED FOR EPOXY RODS SHALL BE INSPECTED BY THIRD PARTY INSPECTOR FOR CLEANLINESS AND DEPTH PRIOR TO INSTALLATION.

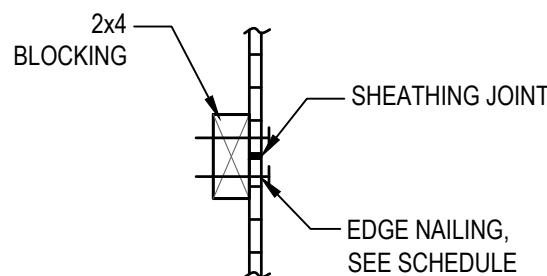
SHEAR WALL ANCHOR ROD EPOXY EMBEDMENT		
HOLDOWN	ROD SIZE	EMBEDMENT
	3/4" Ø	9"
	3/4" Ø	9"
	7/8" Ø	10"
HDU11-SDS2.5	1" Ø	14"
	1 1/2" Ø	16"

EPOXY SHALL BE HILTI HY-200
ALL EXTERIOR HOLDDOWN RODS SHALL BE CAST-IN-PLACE WITH 12" EMBEDMENT AND NUT ON BOTTOM

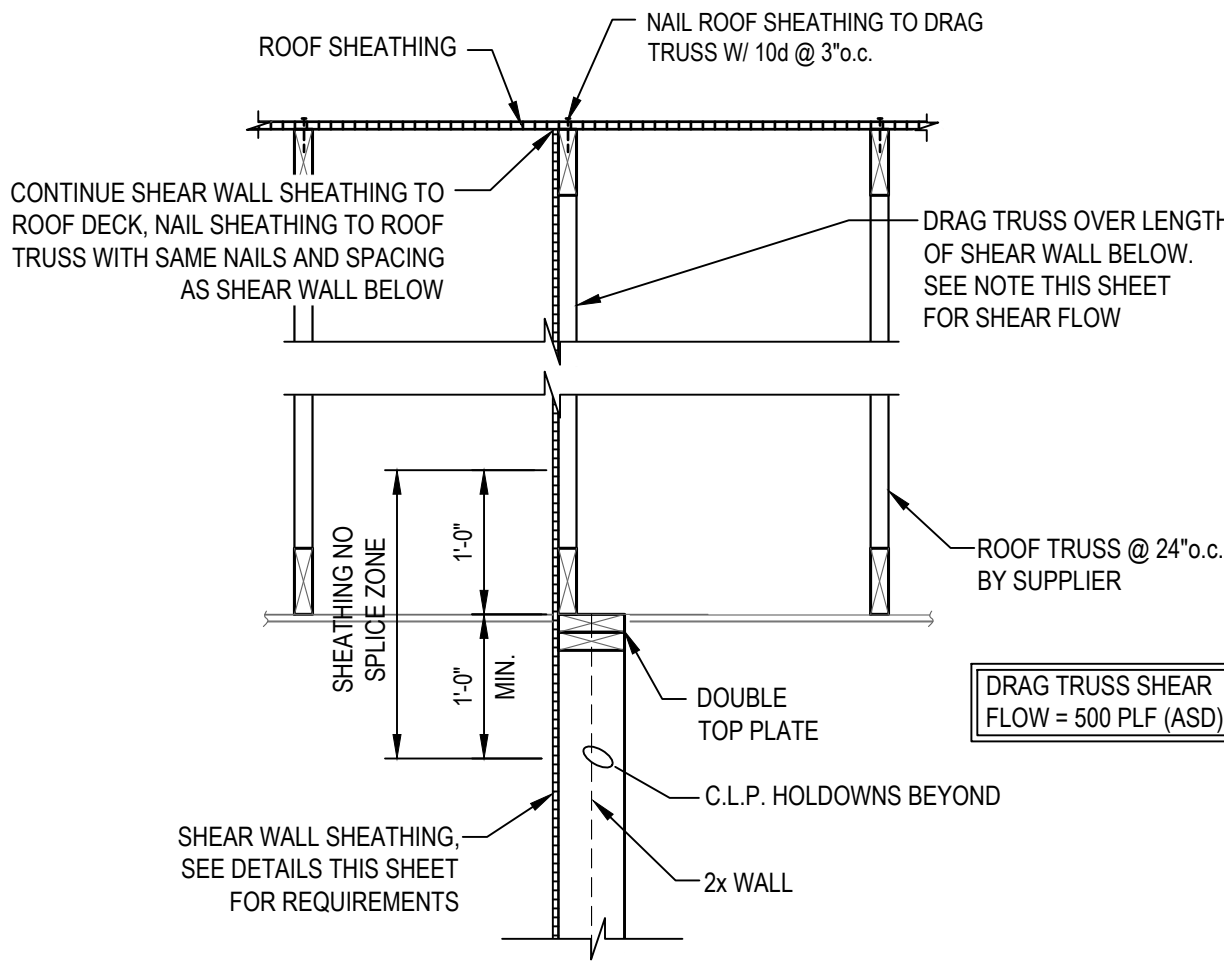
Shear Wall Schedule			
SW-1			
Level	Sheathing Requirement	Holdown	# Compression Studs @ Each Holdown
Fdn-Roof	TYP	HDU11-SDS2.5	(4)-2x8/ (3)-1 3/4"x 7 1/4" LSL



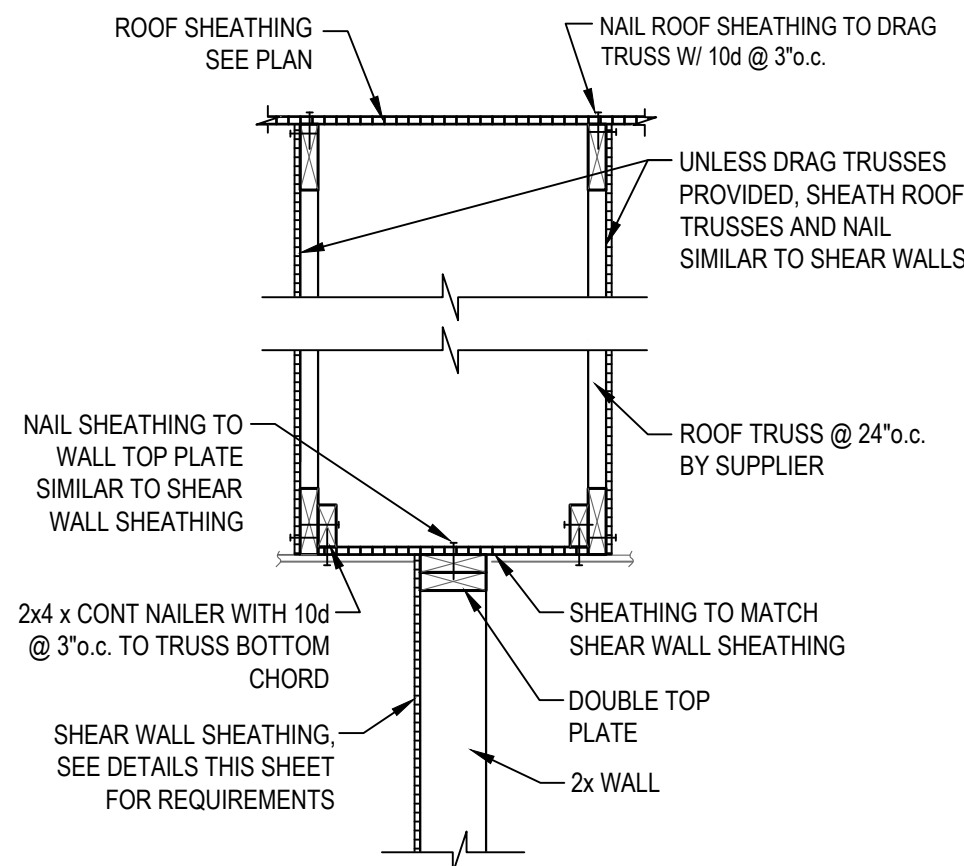
DETAIL "K"
SCALE: 3/4" = 1'-0"



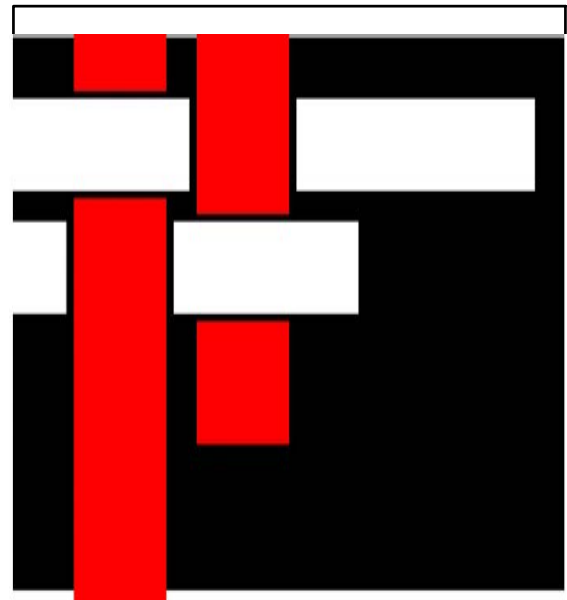
DETAIL "G"
SCALE: 1 1/2" = 1'-0"
SHEAR WALL BLOCKING



DETAIL "H"
SCALE: 3/4" = 1'-0"
SHEAR WALL PARALLEL TO ROOF TRUSS



ALTERNATE DETAIL WHERE SHEAR WALL DOES NOT ALIGN WITH DRAG TRUSSES
SCALE: 3/4" = 1'-0"

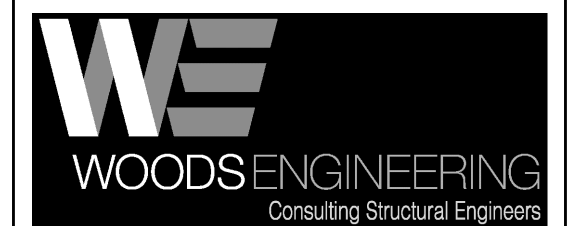


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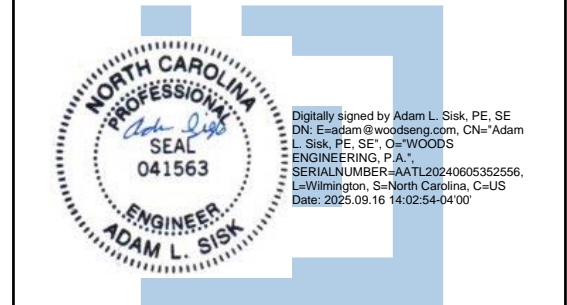
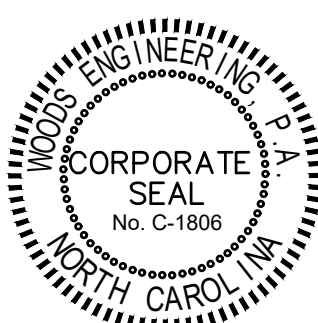
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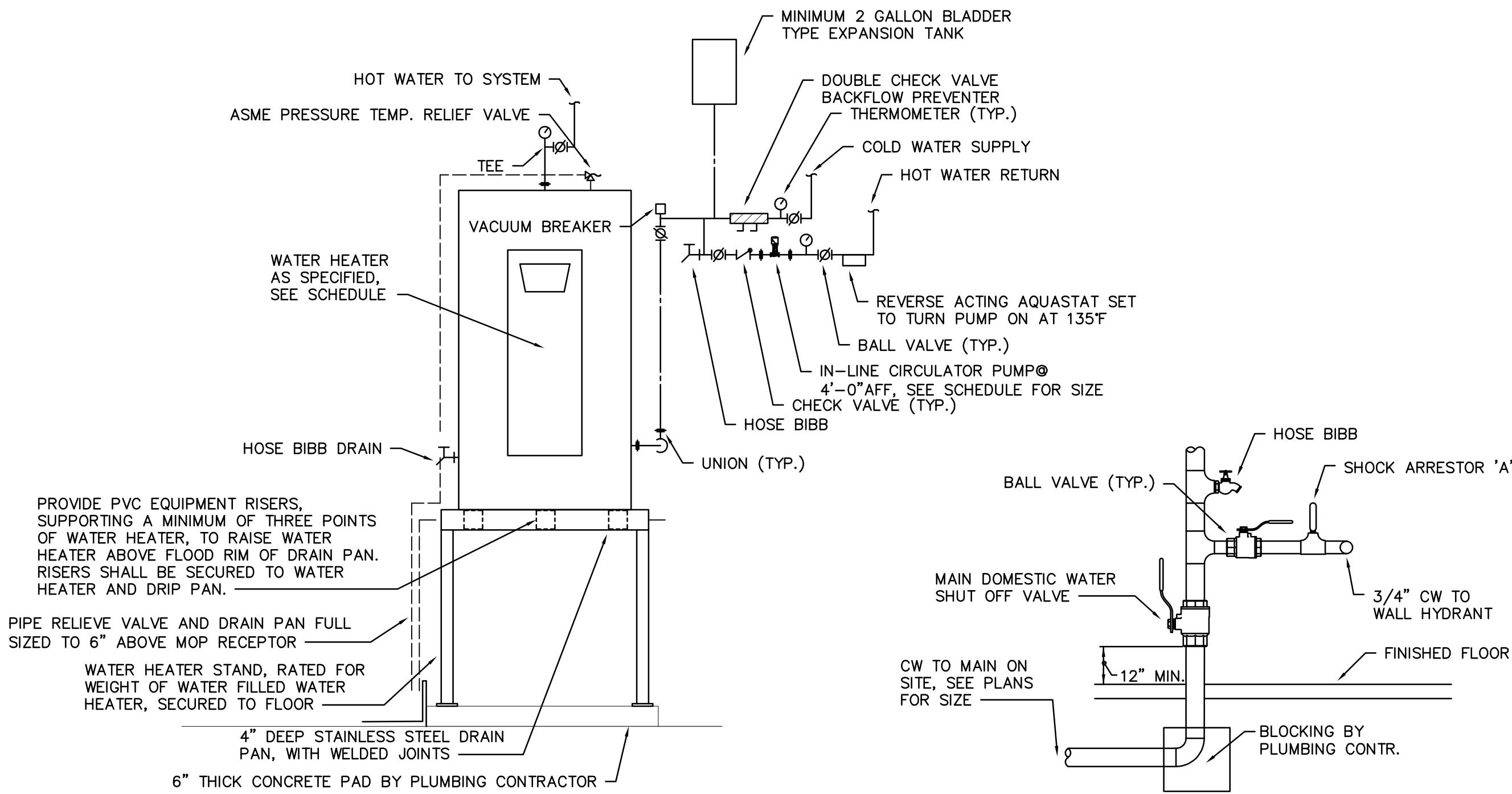
Construction Drawings

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**Shear Wall
Details**

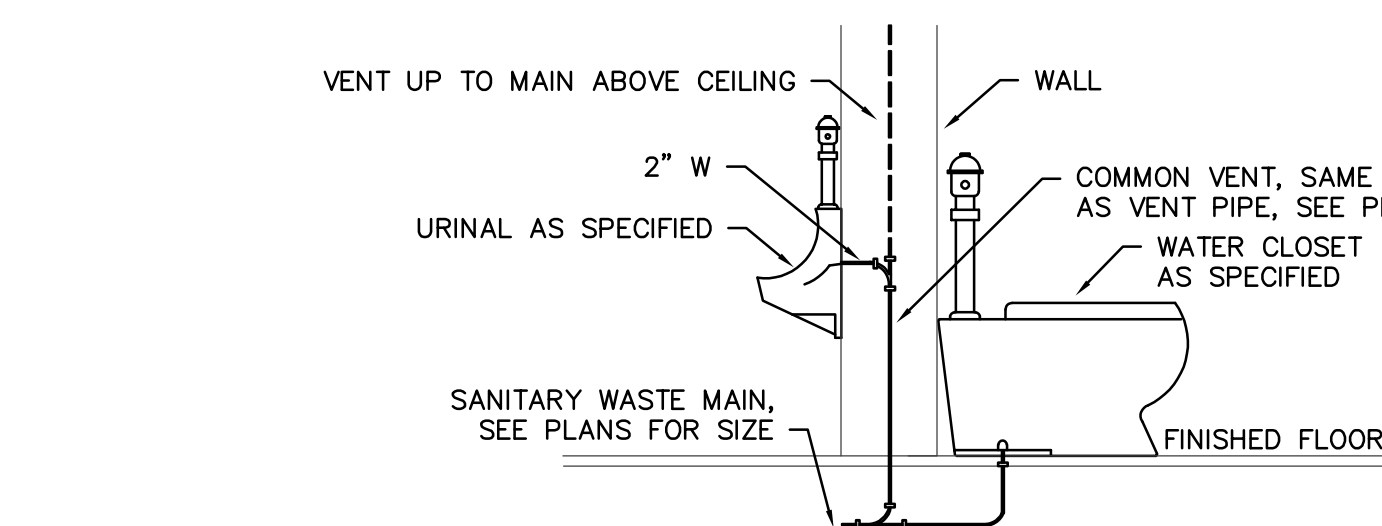
Rev.	Date	Notes

S5.01

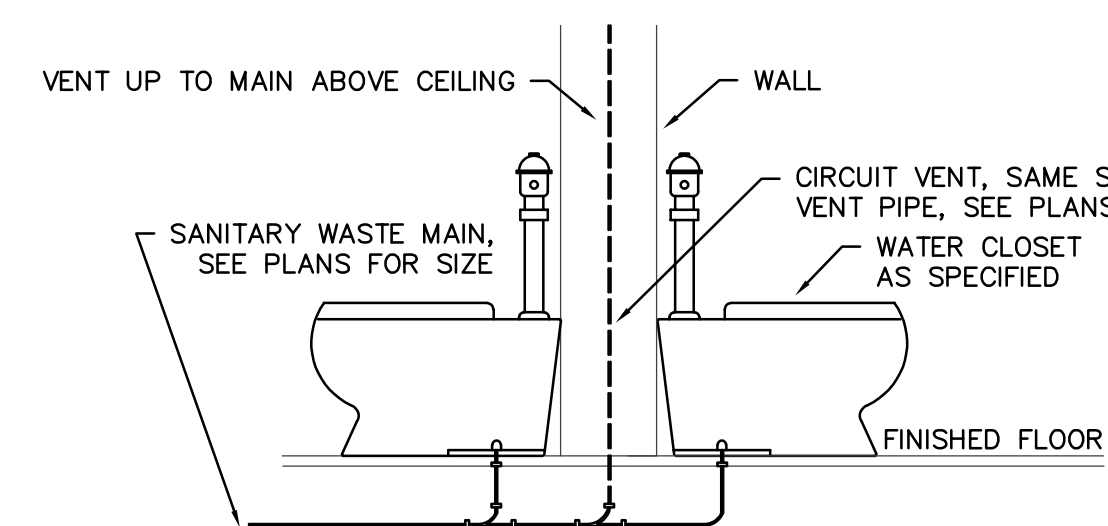


Q
P0.1
WATER HEATER PIPING DETAIL (WH-1)
NO SCALE

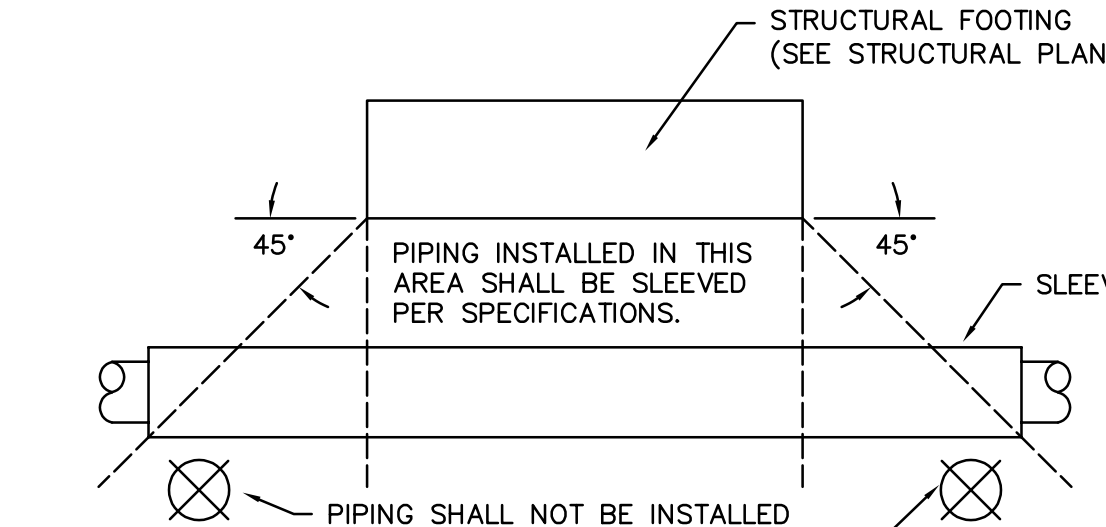
P
P0.1
DOMESTIC WATER ENTRANCE DETAIL
NO SCALE



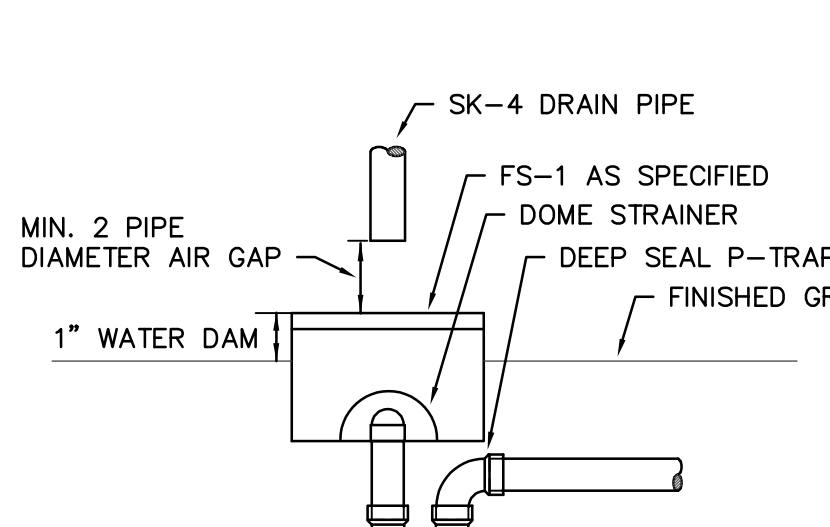
N
P0.1
BACK TO BACK URINAL & WATER CLOSET VENT DETAIL
NO SCALE



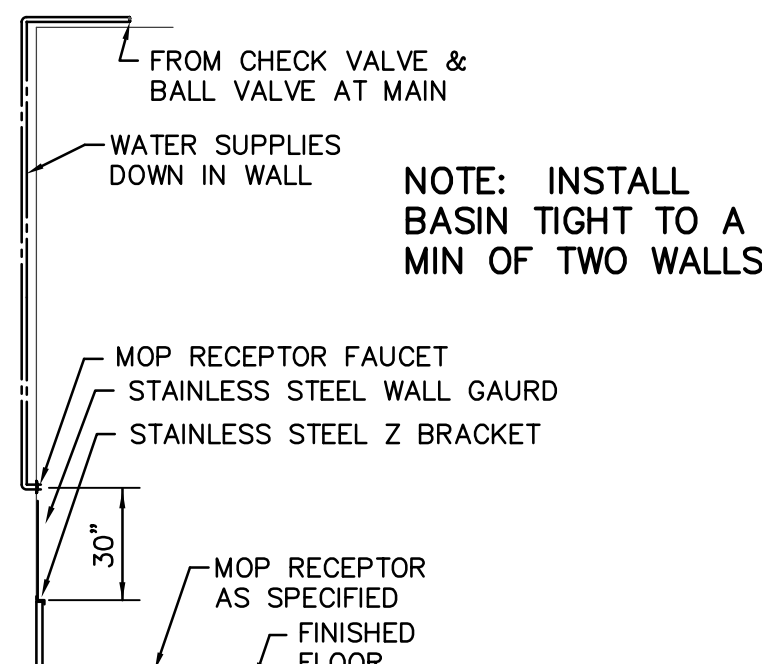
M
P0.1
BACK TO BACK WATER CLOSET VENT DETAIL
NO SCALE



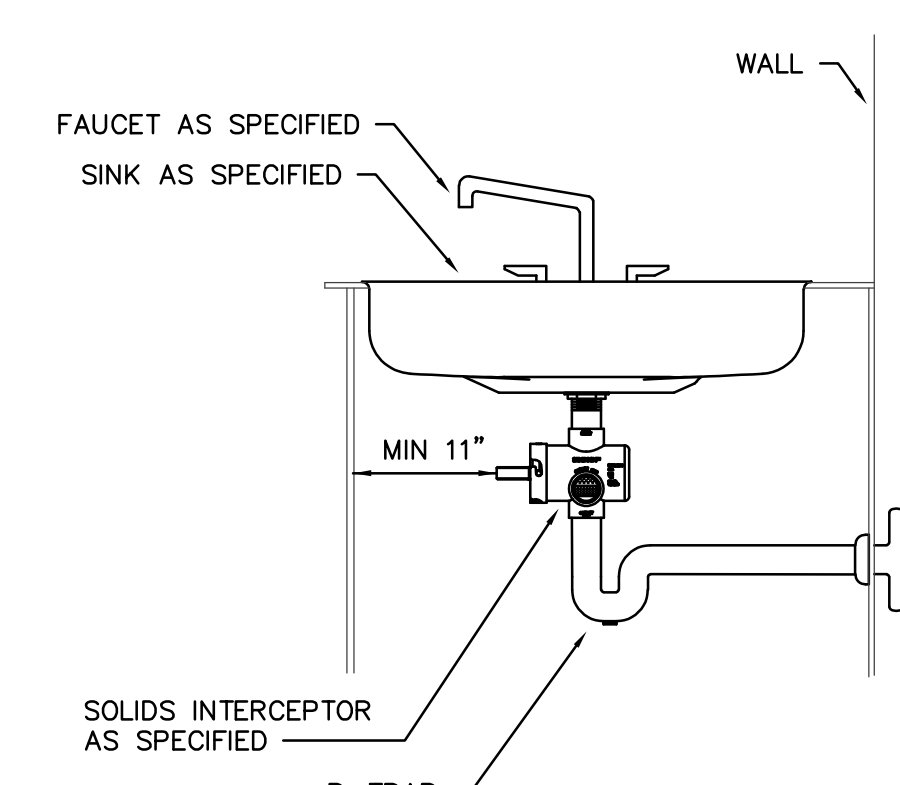
K
P0.1
PIPING UNDER FOOTINGS
NO SCALE



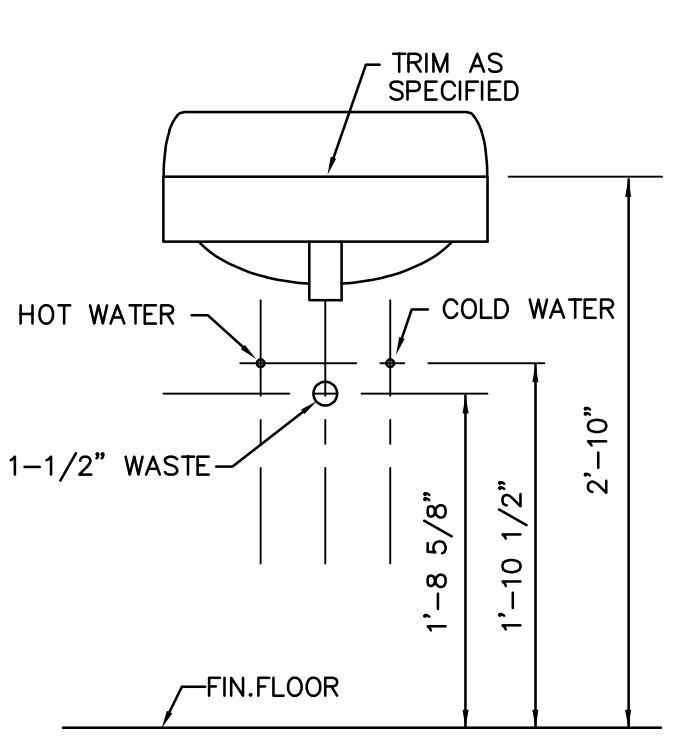
J
P0.1
EXTERIOR FLOOR SINK (FS-1) DETAIL
NO SCALE



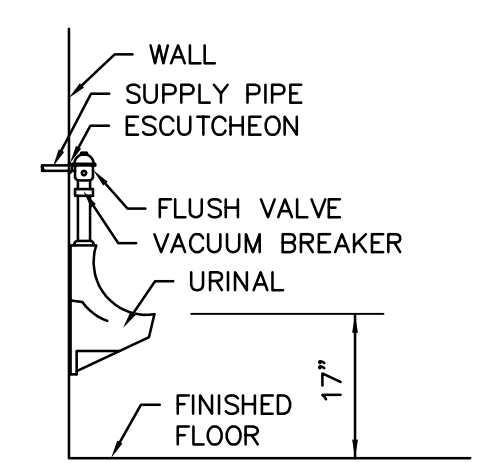
H
P0.1
MOP RECEPTOR (MR-1) DETAIL
NO SCALE



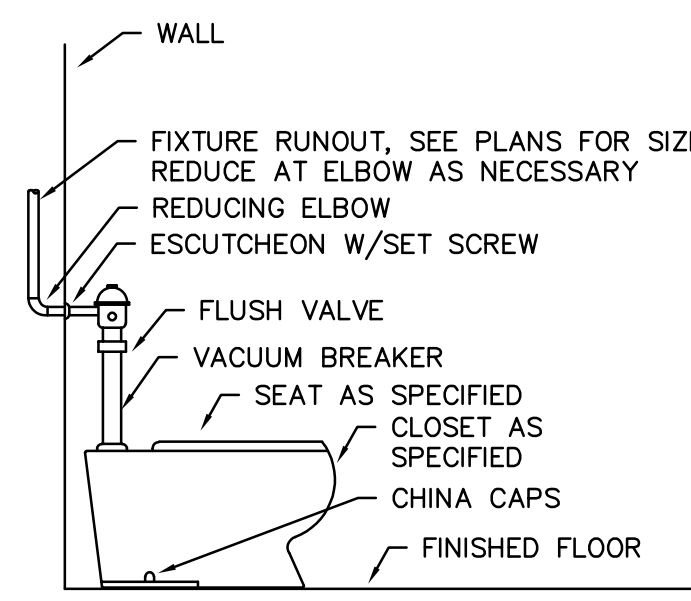
E
P0.1
COUNTER SINK (SK-2) POU SOLIDS INTERCEPTOR DETAIL
NO SCALE



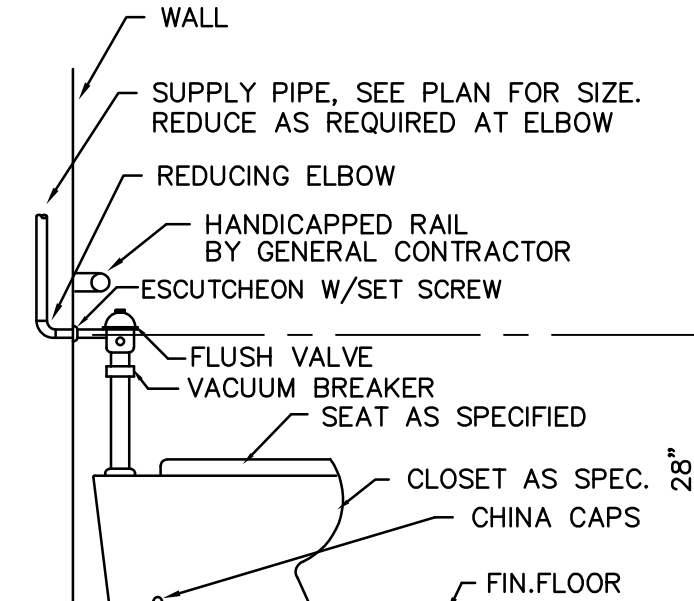
D
P0.1
ADULT ADA LAV/SINK (L-2 & SK-3) ROUGH-IN ELEVATION
NO SCALE



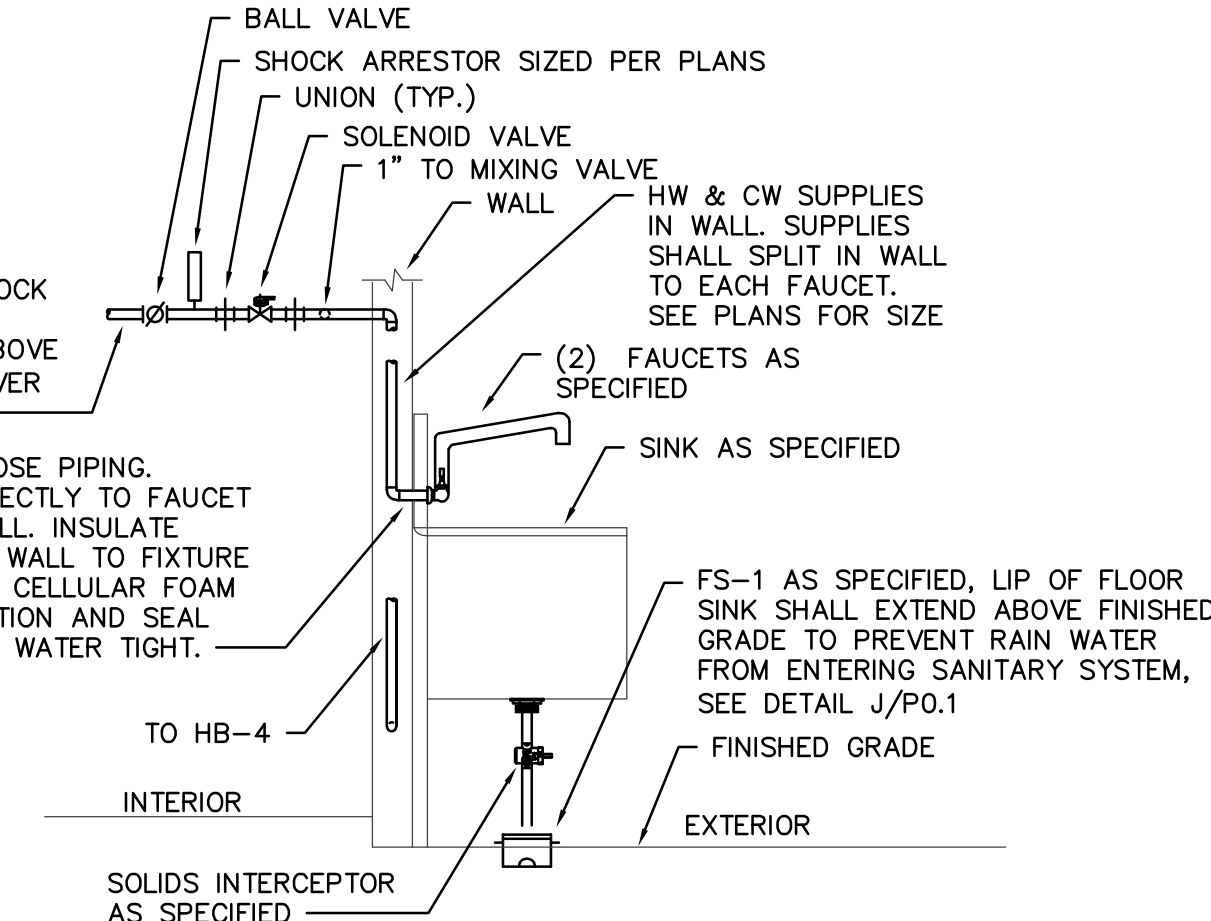
C
P0.1
ADULT ADA URINAL (U-1) ROUGH-IN DETAIL
NO SCALE



B
P0.1
ADULT STANDARD WATER CLOSET (WC-2) DETAIL
NO SCALE



A
P0.1
ADULT ADA WATER CLOSET (WC-1) DETAIL
NO SCALE



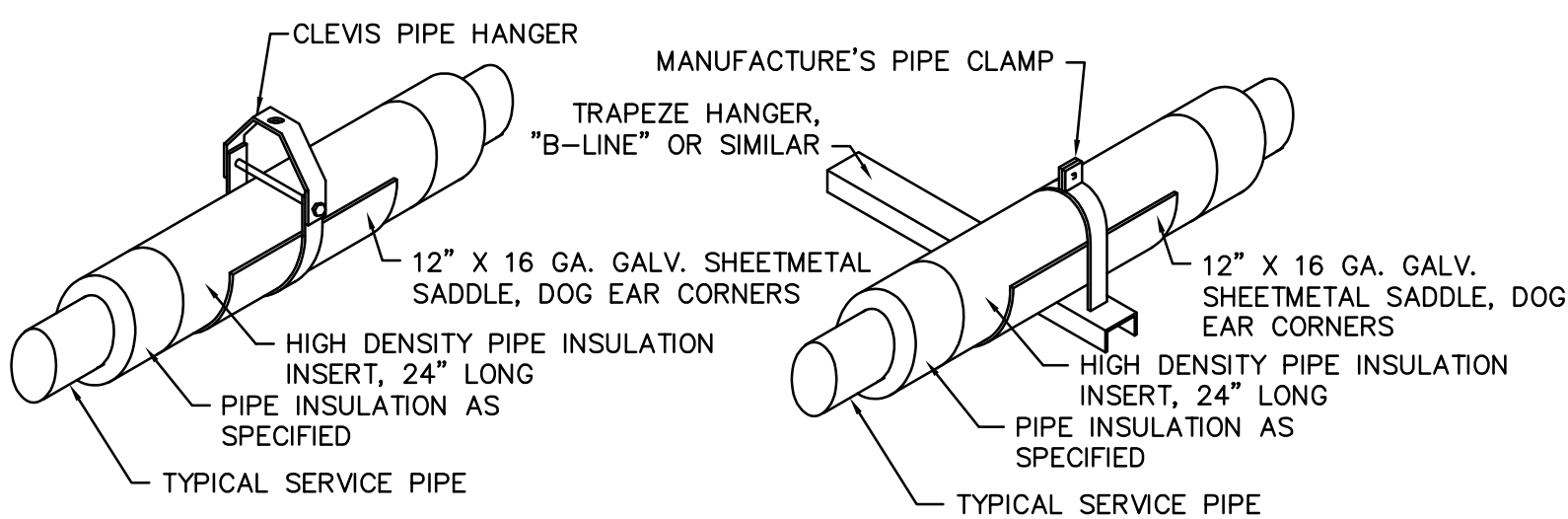
F
P0.1
EXTERIOR SINK (SK-4) DETAIL
NO SCALE

PLUMBING FIXTURE SCHEDULE						
SYMBOL	DESCRIPTION	ROUGH-IN SIZES			REMARKS	
		WASTE	C.W.	H.W.		
WC-1	WATER CLOSET-ADA	4"	1-1/4"	-	DETAIL A/P0.1	
WC-2	WATER CLOSET-STANDARD	4"	1-1/4"	-	DETAIL B/P0.1	
U-1	URINAL-ADA	2"	3/4"	-	DETAIL C/P0.1	
L-1	COUNTER LAVATORY-ADA	1-1/2"	1/2"	1/2"	ADA HEIGHT	
L-2	WALL HUNG LAVATORY-ADA	1-1/2"	1/2"	1/2"	ADA HEIGHT/D/P0.1	
SK-1	BREAKROOM SINK	1-1/2"	1/2"	1/2"	ADA SIDE APPROACH	
SK-2	COUNTER SINK	1-1/2"	1/2"	1/2"	ADA/DETAIL E/P0.1	
SK-3	NURSING SINK	1-1/2"	1/2"	1/2"	ADA/DETAIL D/P0.1	
SK-4	EXTERIOR SINK	1-1/2"	1/2"	1/2"	ADA/DETAIL F/P0.1	
EWC-1	ELECTRIC WATER COOLER	1-1/2"	1/2"	-	DUAL HEIGHT/DETAIL G/P0.1	
MR-1	MOP RECEPTOR	3"	1/2"	1/2"	DETAIL H/P0.1	
HB-1	HOSE BIBB IN BOX	-	1/2"	-	MOUNT 12" AFF	
HB-2	HOSE BIBB	-	1/2"	-	MOUNT 12" AFF	
HB-3	WALL HYDRANT	-	3/4"	-	MOUNT 24" AFG	
HB-4	WALL HYDRANT	-	3/4"	-	NARROW/MOUNT 24" AFG	
FD-1	FLOOR DRAIN	2"	-	-	SQUARE	
FD-2	FLOOR DRAIN	4"	-	-	ROUND	
FS-1	FLOOR SINK	3"	-	-	DETAIL J/P0.1	
CB-1	ICE MAKER CONNECTION BOX	-	1/2"	-		
CB-2	WASHER CONNECTION BOX	2"	1/2"	1/2"		
DW-1	DISHWASHER (OWNER PROVIDED)	3/4"	-	1/2"		

1. LAVATORIES SHALL HAVE MIXING VALVES INSTALLED SUCH THAT WATER TEMPERATURE IS LIMITED TO 110F. MIXING VALVES SHALL CONFORM TO ASSE 1070 OR CSA B125.3, SEE SPECIFICATIONS.

WATER HEATER SCHEDULE									
SYMBOL	DESCRIPTION	ROUGH-IN SIZES CW	HW	TEMP. SETTING	STORAGE CAPACITY	RECOVERY	FUEL	LOAD	ELEC.
WH-1	TANK TYPE-ELECTRIC	1-1/4"	1-1/4"	140°F	65 GAL	74 GPH	ELECTRIC	18 kW	208V, 3Ø

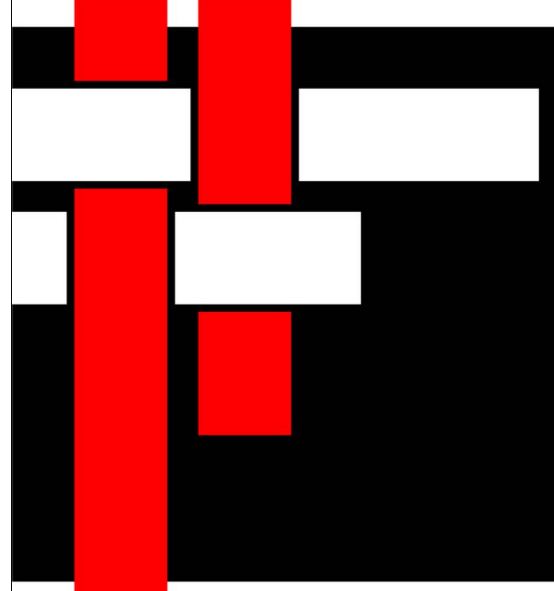
CIRCULATOR PUMP SCHEDULE							
SYMBOL	GPM	THD	ELECTRICAL		LOCATION	SERVICE	REMARKS
			HP	VOLTAGE			
CP-1	2	6	1/40	115 V., 1Ø	CUSTODIAL 111	H.W. RETURN	TIME CLOCK, AQUASTAT MOUNT @ 4'-0" AFF



L
P0.1
PIPE HANGER DETAILS
NO SCALE

LEGEND	
W	WASTE PIPING
V	VENT PIPING
CW	COLD WATER PIPING
HW	HOT WATER PIPING
HWR	HOT WATER RETURN PIPING
RDL	ROOF DRAIN LEADER
ORDL	OVERFLOW ROOF DRAIN LEADER
	BALL/BUTTERFLY VALVE
	BALL/BUTTERFLY VALVE IN VALVE BOX FLUSH WITH GRADE
	BALANCING VALVE
	GAS VALVE
	CHECK VALVE
	SOLENOID VALVE
	VALVE IN RISE
	PIPE ELBOW TURNED DOWN
	PIPE ELBOW TURNED UP
	PIPE TEE TURNED DOWN
	PIPE TEE TURNED UP
	UNION
	STRAINER
	DOUBLE CHECK VALVE BACKFLOW PREVENTER
	REDUCED PRESSURE BACKFLOW PREVENTER
	DRAINAGE INSTITUTE STANDARD SIZE SHOCK ARRESTER, 'A' INDICATES PLUMBING
	ASME PRESSURE TEMPERATURE RELIEF VALVE
VTR	VENT THRU ROOF
CO	CLEANOUT
ECO	EXTERIOR CLEANOUT
WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFG	BELOW FINISHED GRADE
INV	INVERT ELEVATION
MECH	MECHANICAL
	NUMBER INDICATES PLAN OR SECTION
	LETTER INDICATES ELEVATION OR DETAIL
	SHEET NUMBER WHERE PLAN, SECTION, ELEVATION OR DETAIL IS DRAWN

TOTAL CONNECTED LOAD	
WASTE FIXTURE UNITS =	68.5 F.U.
COLD WATER DEMAND =	86 GPM
HOT WATER DEMAND =	21 GPM



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ARCHITECTURE**
124 Market Street
Wilmington, NC 28401
910 762-0892
s2a3.com

CLH DESIGN, P.A.
4010 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 316-0716
Fax: (919) 316-7516
A/C-108
RE: C-1265

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CONSULTING ENGINEERS**
3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
FAX: (910) 452-4211
OFFICE@CHEATHAMP.A.COM
WWW.CHEATHAMP.A.COM
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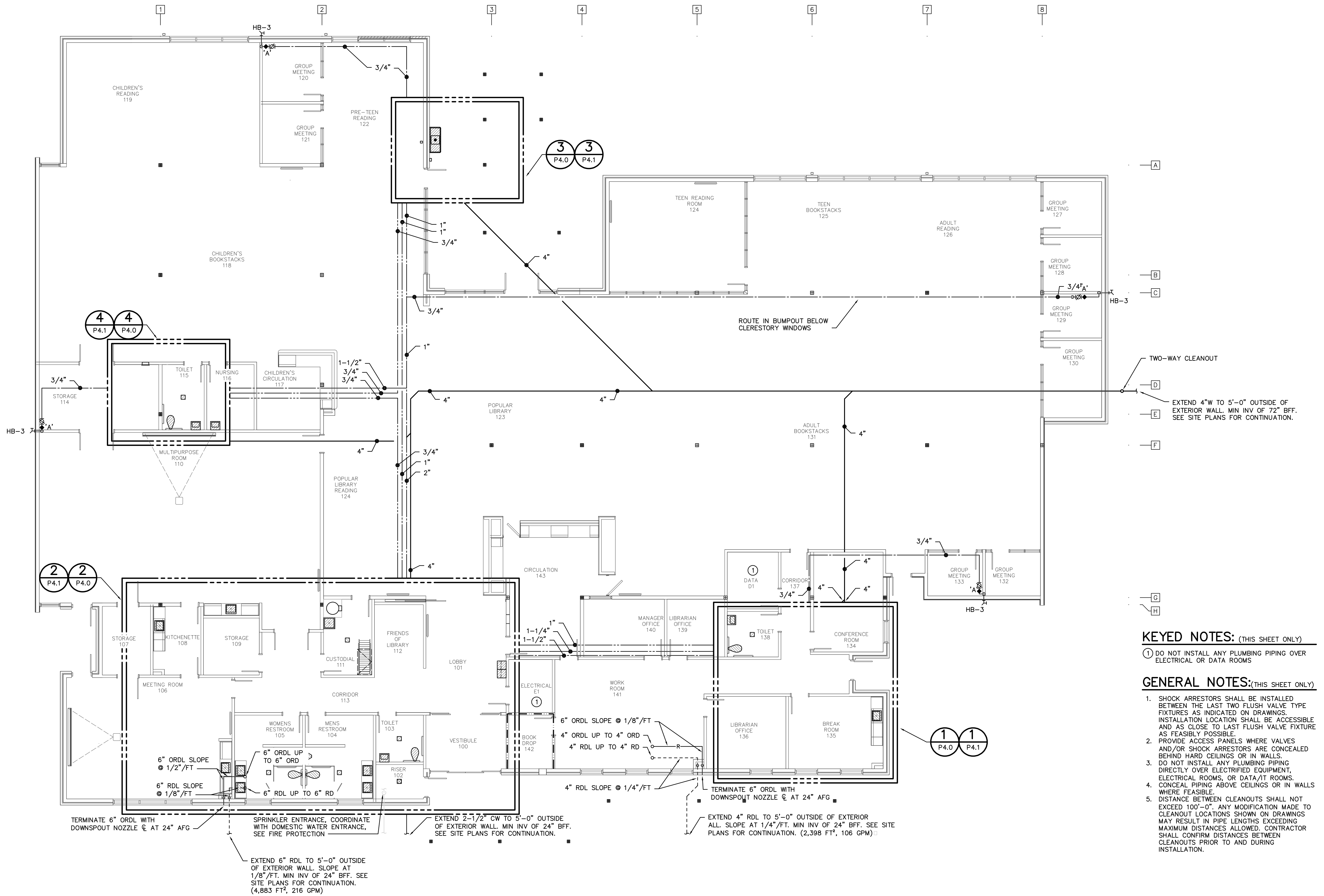
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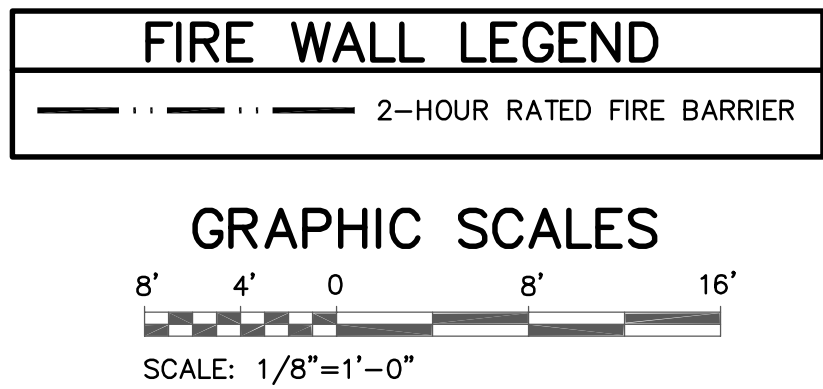
**PLUMBING LEGEND,
SCHEDULES AND
DETAILS**

Rev.	Date	Notes

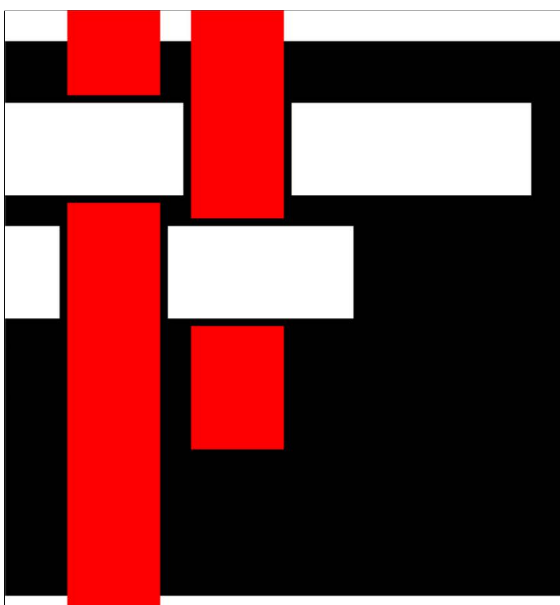
P0.1
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- KEYED NOTES: (THIS SHEET ONLY)**
- ① DO NOT INSTALL ANY PLUMBING PIPING OVER ELECTRICAL OR DATA ROOMS
- GENERAL NOTES: (THIS SHEET ONLY)**
- SHOCK ARRESTORS SHALL BE INSTALLED BETWEEN THE LAST TWO FLUSH VALVE TYPE FIXTURES AS INDICATED ON DRAWINGS. INSTALLATION LOCATION SHALL BE ACCESSIBLE AND AS CLOSE TO LAST FLUSH VALVE FIXTURE AS FEASIBLY POSSIBLE.
 - PROVIDE ACCESS PANELS WHERE VALVES AND/OR SHOCK ARRESTORS ARE CONCEALED BEHIND HARD CEILINGS OR IN WALLS.
 - DO NOT INSTALL ANY PLUMBING PIPING DIRECTLY OVER ELECTRIFIED EQUIPMENT, ELECTRICAL ROOMS, OR DATA/IT ROOMS.
 - CONCEAL PIPING ABOVE CEILINGS OR IN WALLS WHERE FEASIBLE.
 - DISTANCE BETWEEN CLEANOUTS SHALL NOT EXCEED 100'-0". ANY MODIFICATION MADE TO CLEANOUT LOCATIONS SHOWN ON DRAWINGS MAY RESULT IN PIPE LENGTHS EXCEEDING MAXIMUM DISTANCES ALLOWED. CONTRACTOR SHALL CONFIRM DISTANCES BETWEEN CLEANOUTS PRIOR TO AND DURING INSTALLATION.



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



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CLH DESIGN, P.A.
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Suite 120
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Phone: (919) 319-5718
Fax: (919) 319-7516
LA: C-1585
RE: C-1585



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PHONE: (910) 452-4210
FAX: (910) 452-4211
OFFICE@CHEATHAMP.A.COM
WWW.CHEATHAMP.A.COM
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JOB # 24036




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CASEY D. GILMAN
ENGINEER

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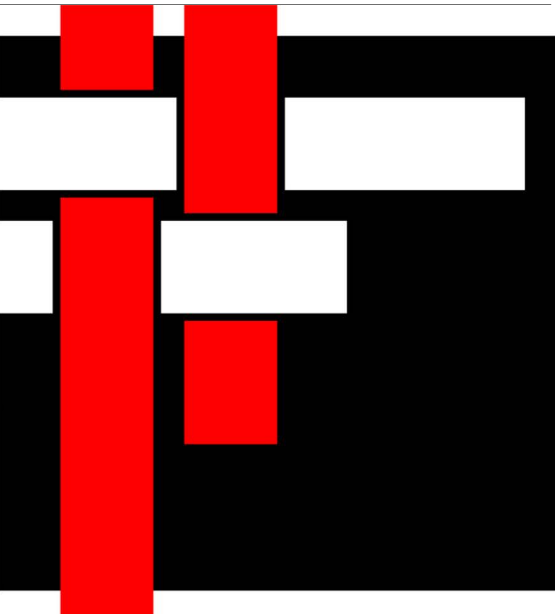
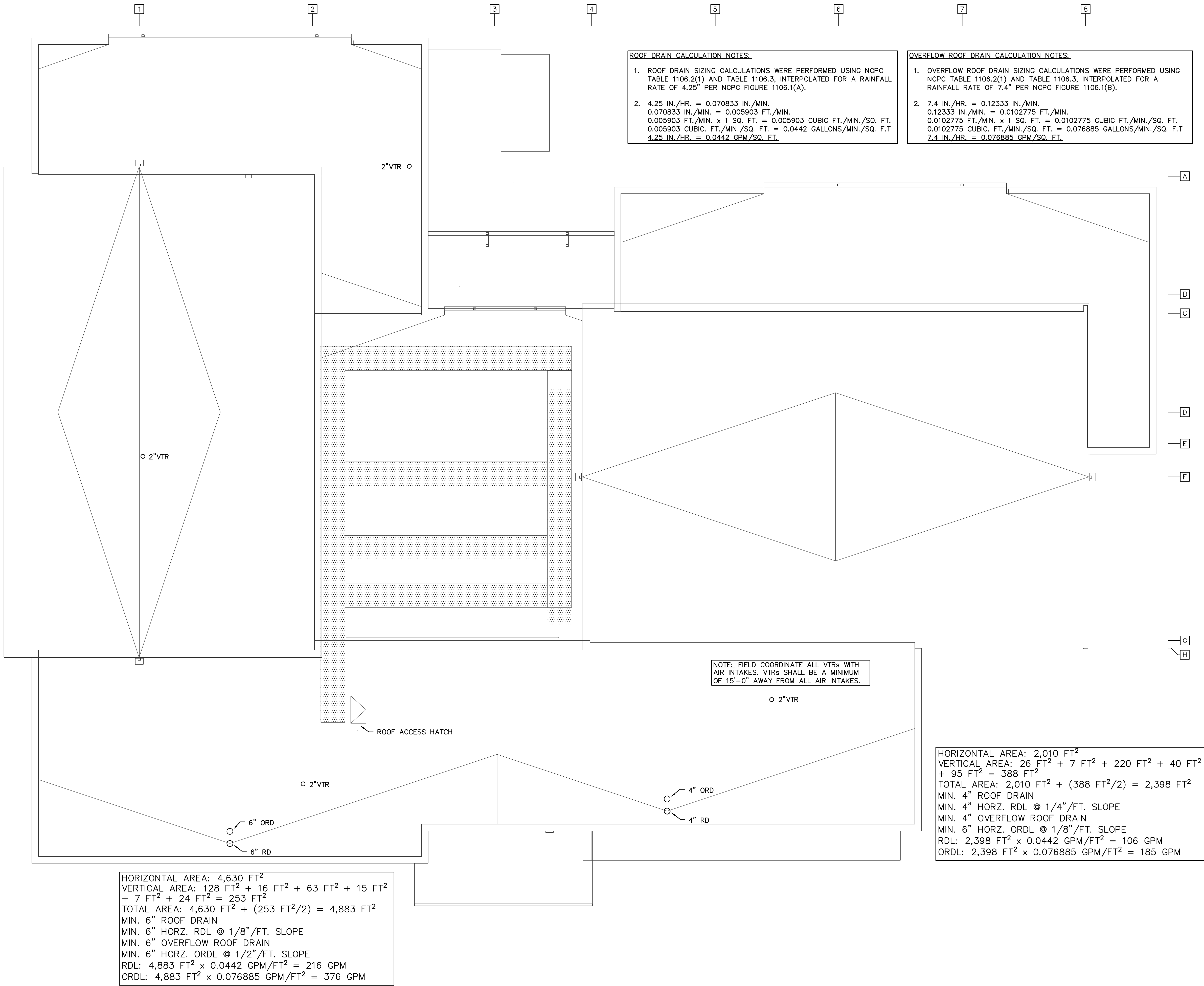
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PLUMBING PLAN

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P1.0

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FAX: (910) 452-4211
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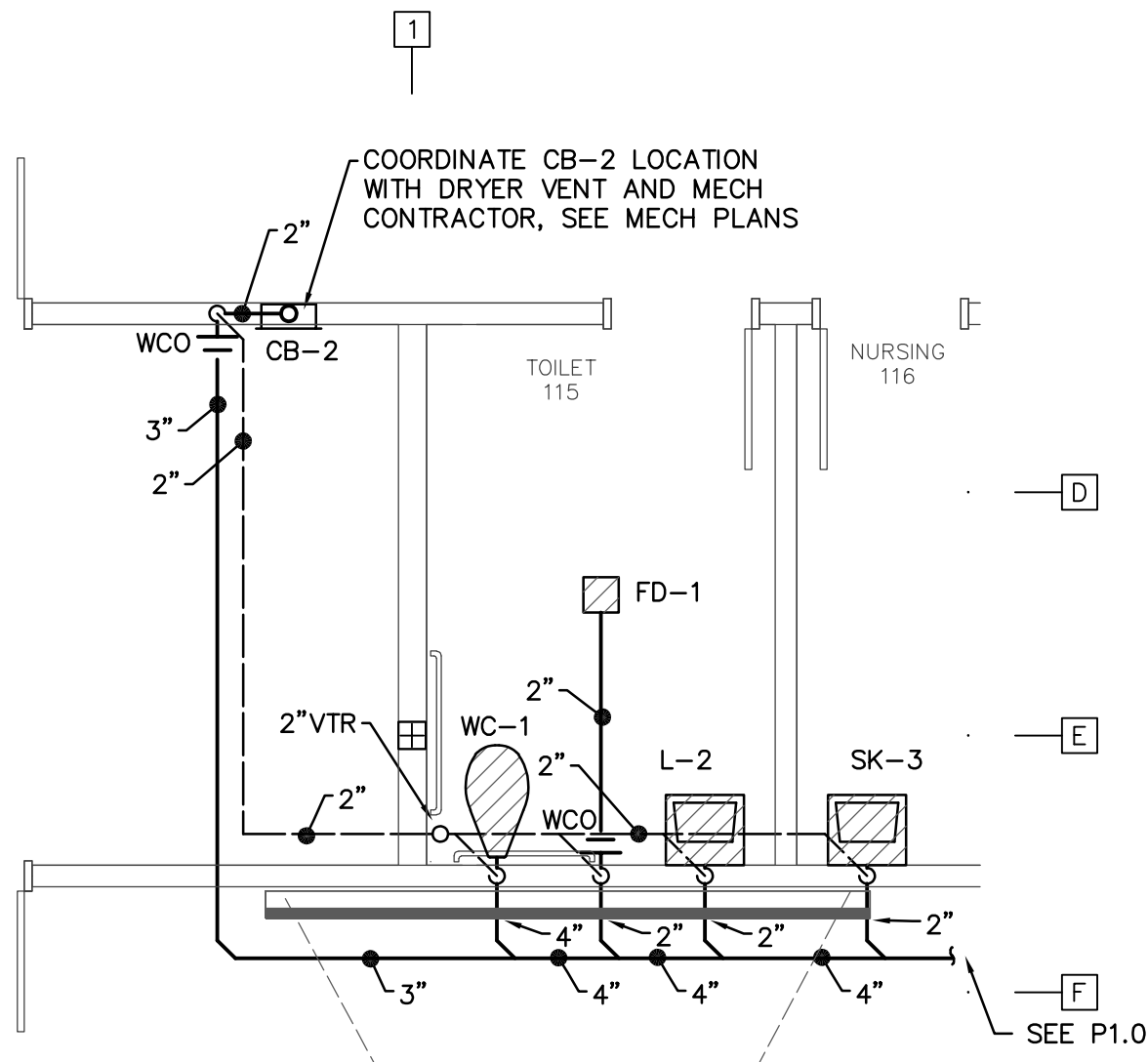
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**PLUMBING ROOF
PLAN**

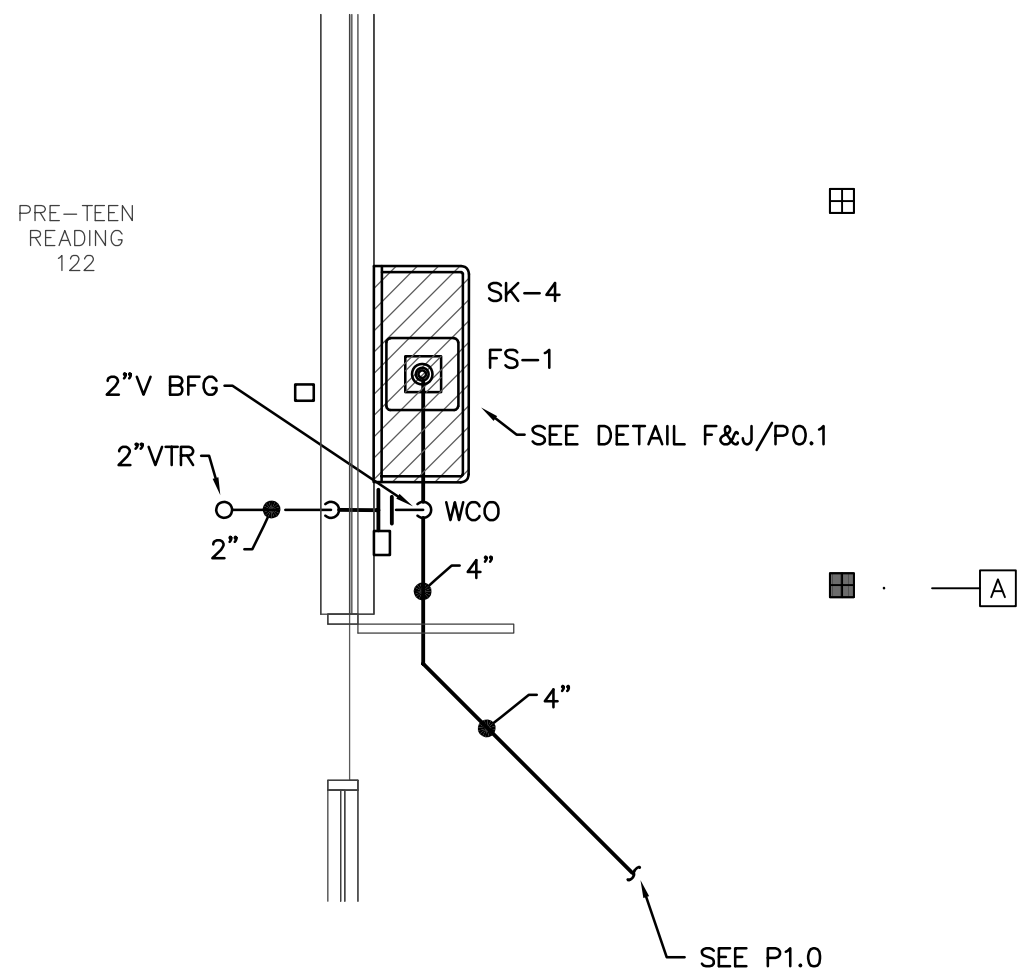
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P2.0

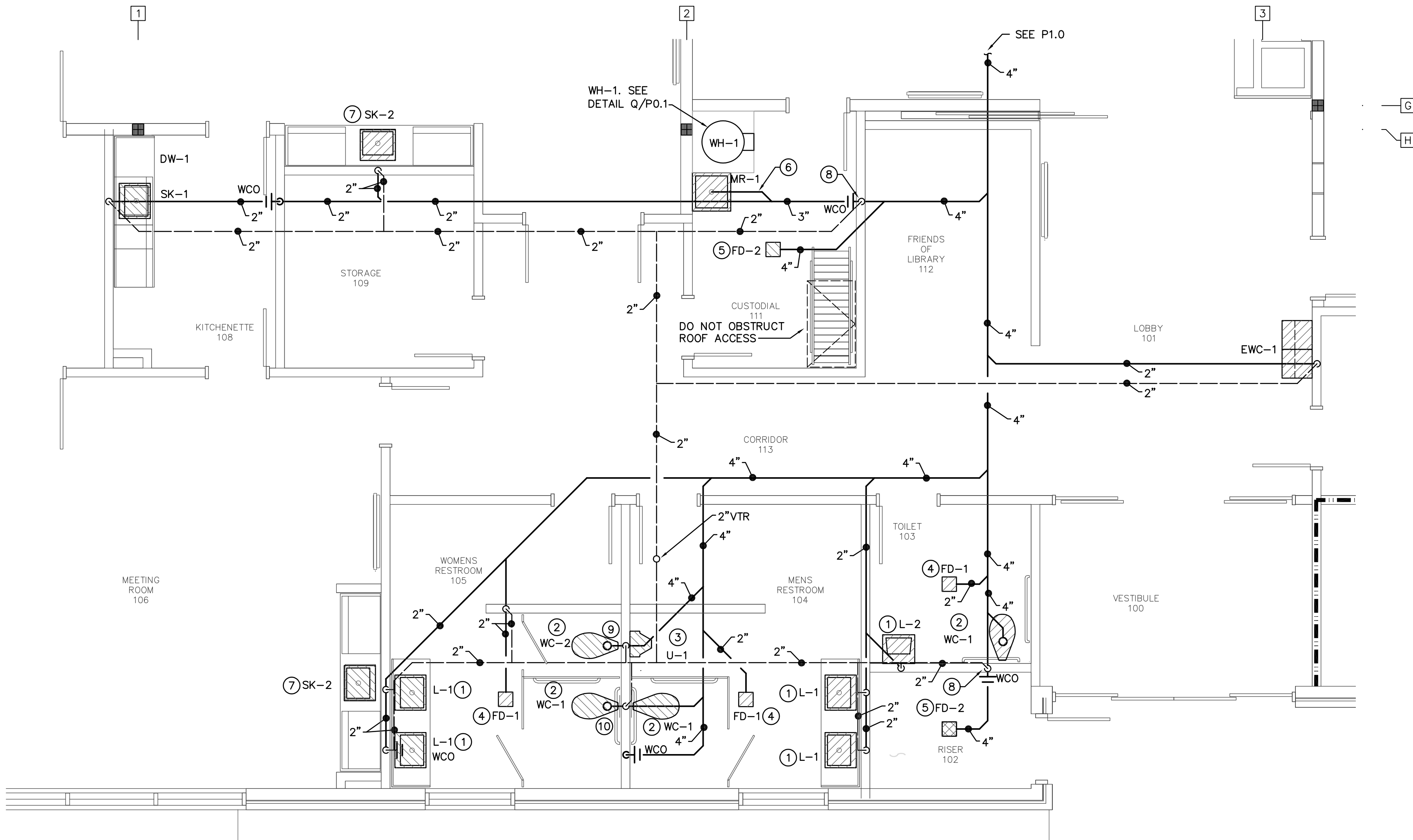
- KEYED NOTES: (THIS SHEET ONLY)
- 1 2"W & V TO L-1
 - 2 4"W TO WC-1 OR WC-2
 - 3 2"W TO U-1
 - 4 2"W TO FD-1
 - 5 4"W TO FD-2
 - 6 3"W TO MR-1, SEE DETAIL H/P0.1
 - 7 2"W & V TO SK-2, SEE DETAIL E/P0.1
 - 8 2" CIRCUIT VENT
 - 9 SEE DETAIL N/P0.1
 - 10 SEE DETAIL M/P0.1



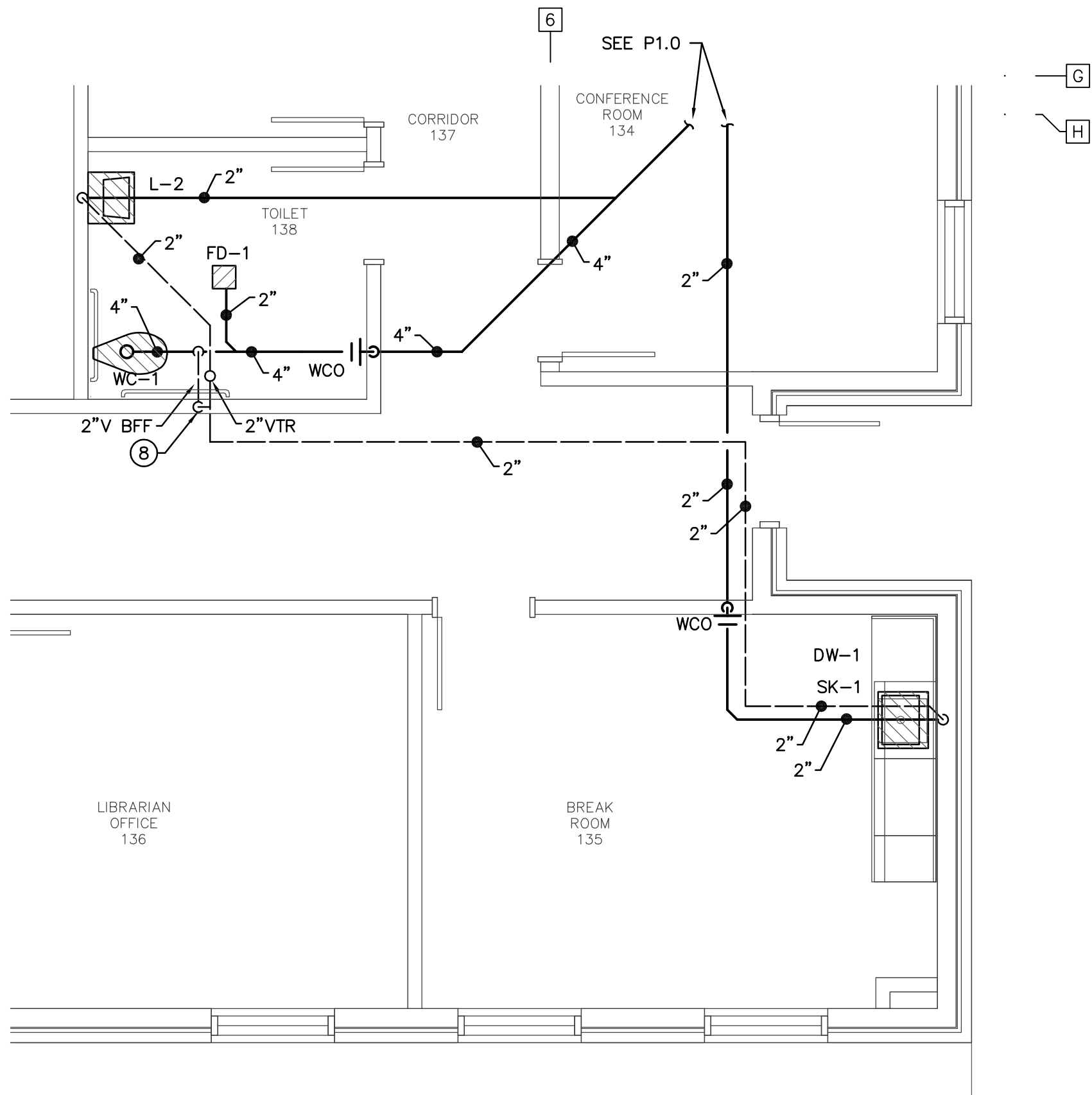
4 ENLARGED LAUNDRY- WASTE & VENT
SCALE: 1/4" = 1'-0"



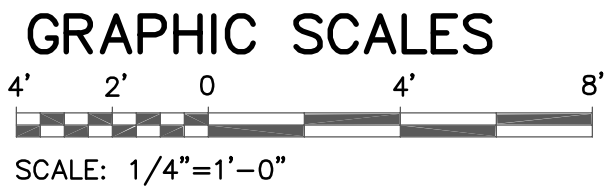
3 ENLARGED EXTERIOR- WASTE & VENT
SCALE: 1/4" = 1'-0"



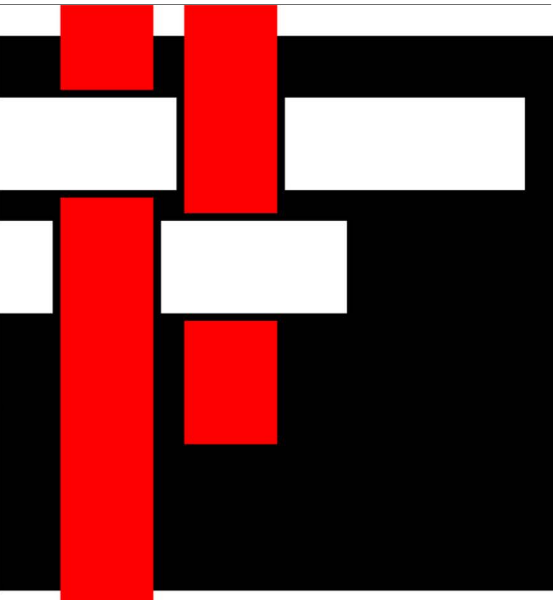
2 ENLARGED RESTROOMS-WASTE & VENT
SCALE: 1/4" = 1'-0"



1 ENLARGED BREAKROOM-WASTE & VENT
SCALE: 1/4" = 1'-0"



FIRE WALL LEGEND	
---	2-HOUR RATED FIRE BARRIER



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s2a3.com

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400 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 319-5716
Fax: (919) 319-7516
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CONSULTING ENGINEERS**
3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
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FAX: (910) 452-4211
OFFICE@CHEATHAMP.A.COM
WWW.CHEATHAMP.A.COM
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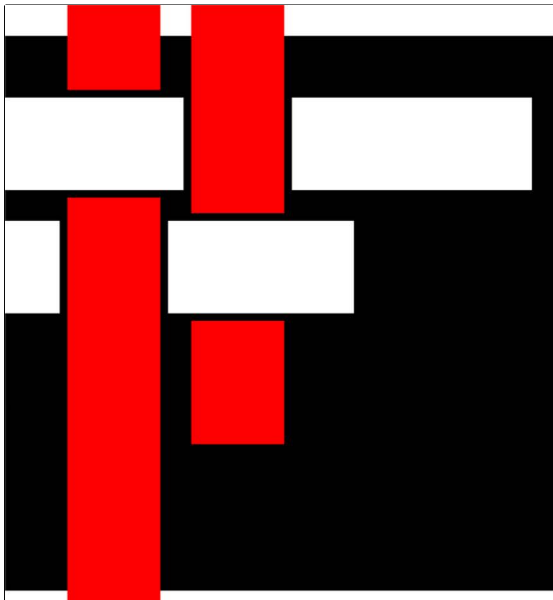
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ENLARGED WASTE
AND VENT PLANS

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P4.0



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400 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
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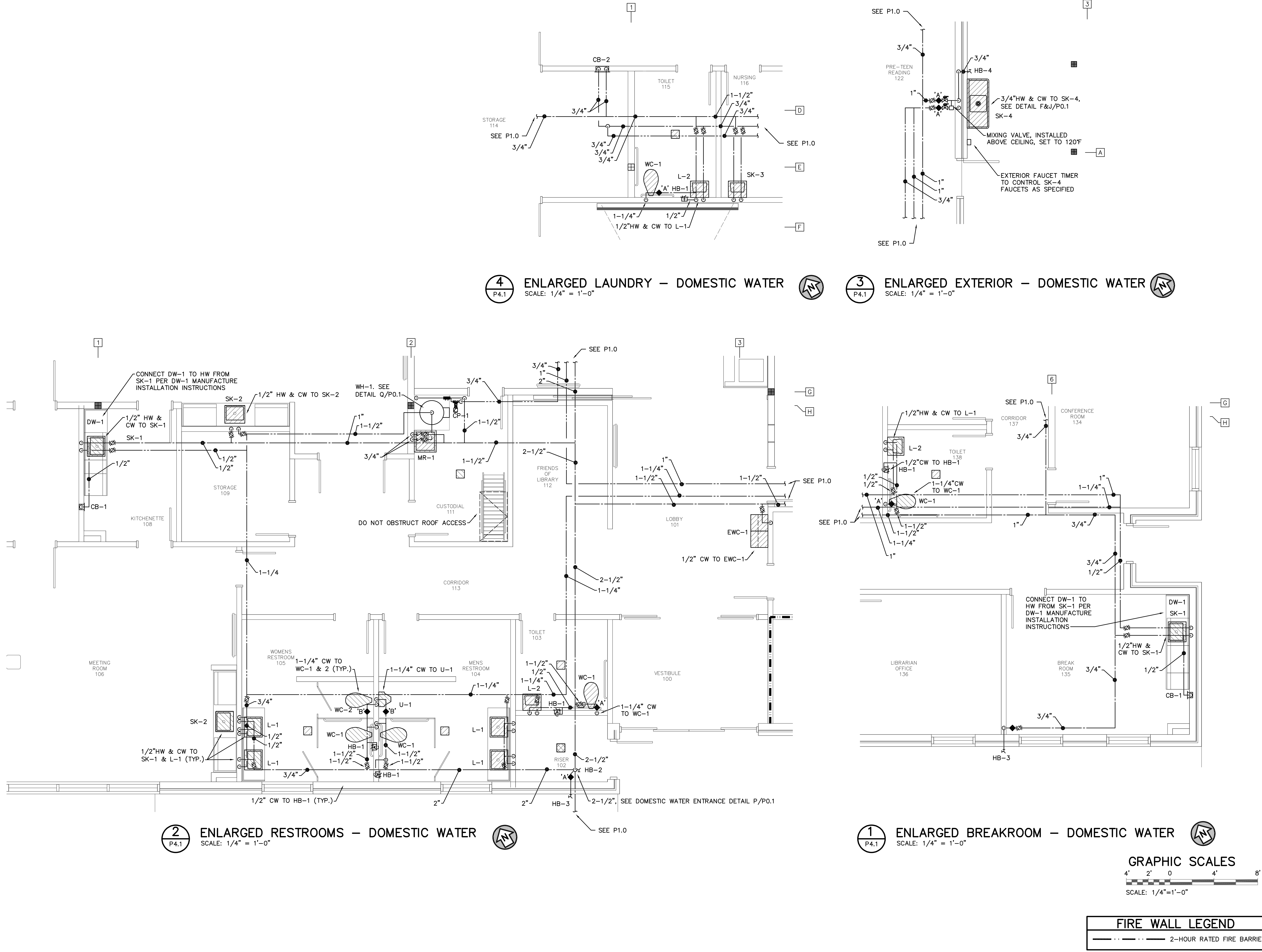
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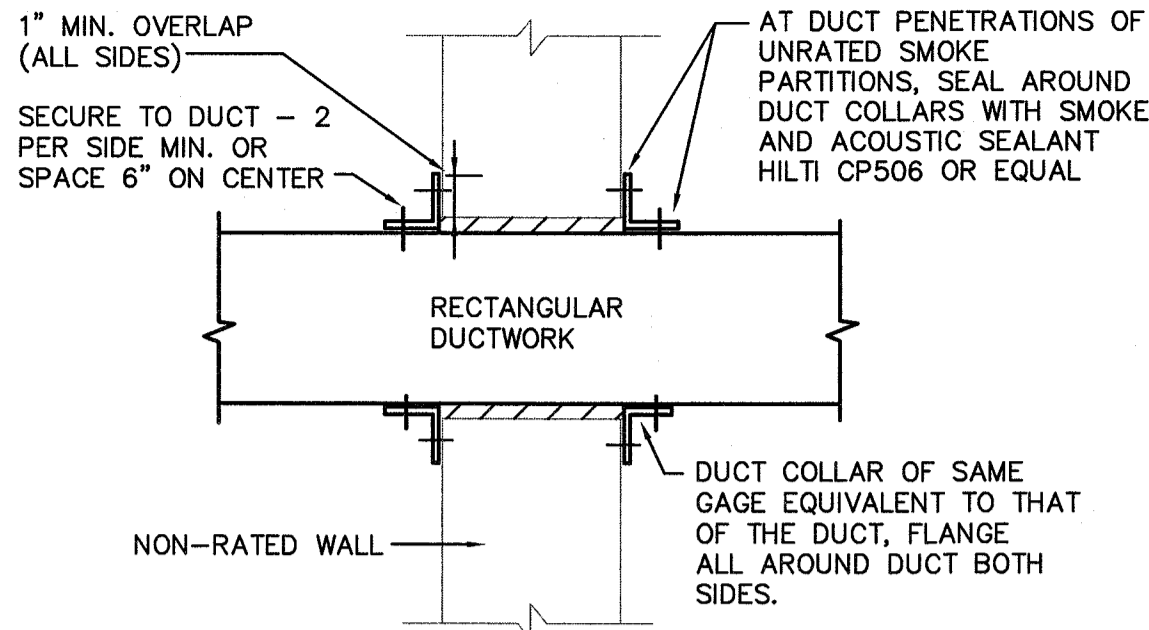
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**ENLARGED
DOMESTIC WATER
PLANS**

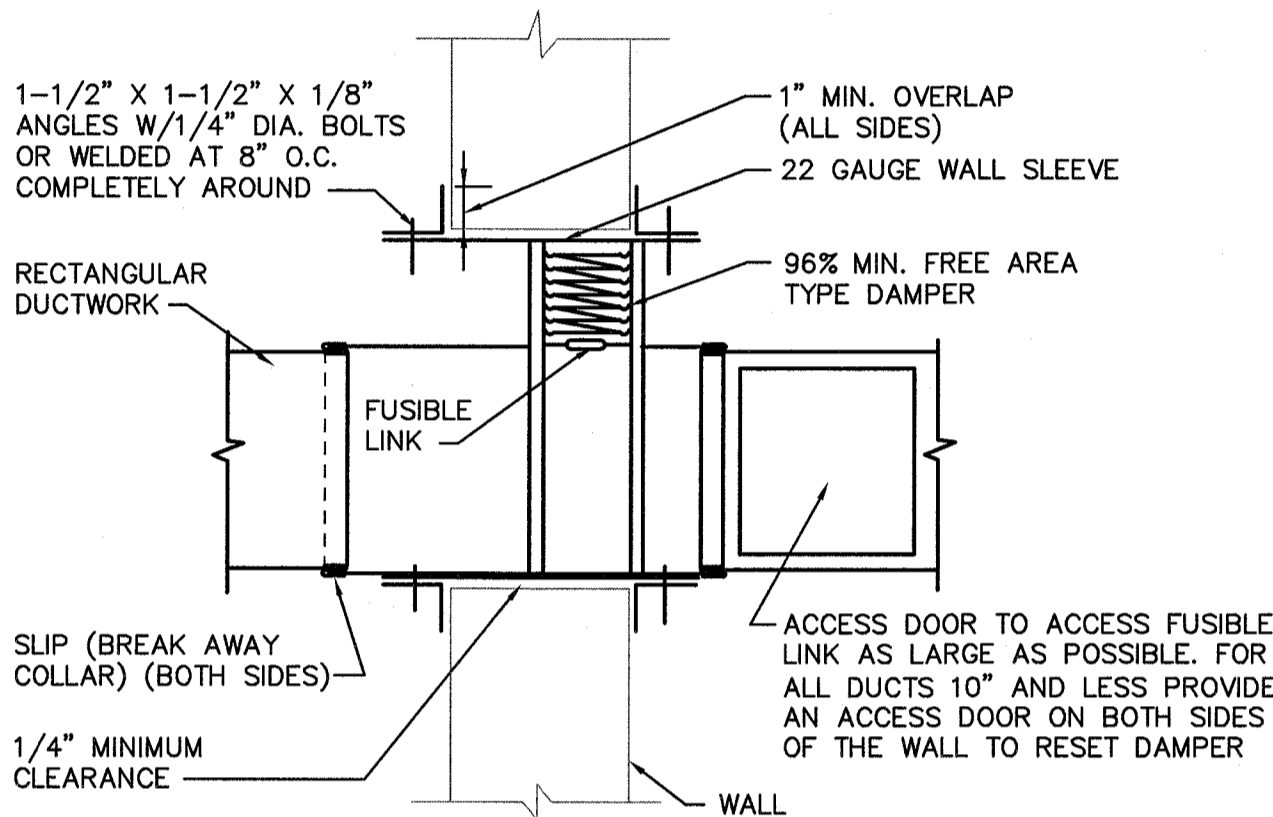
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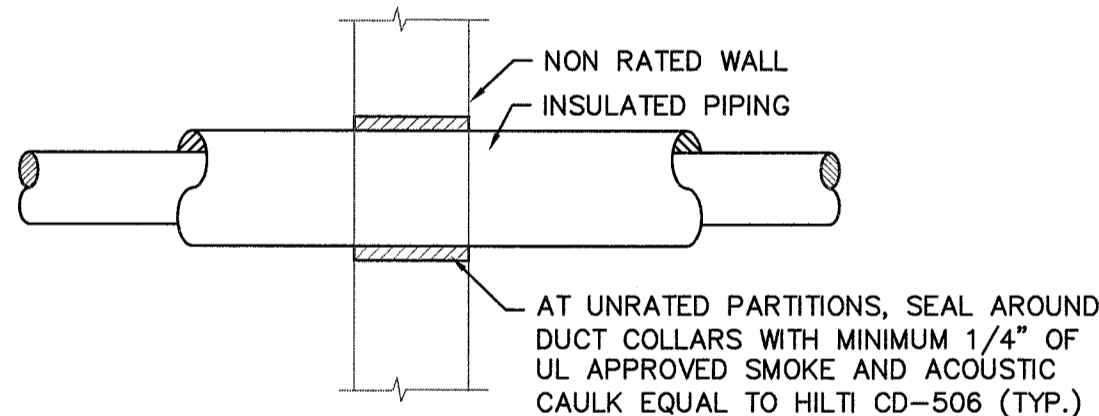




A
MO.1
NON-RATED WALLS
WALL PENETRATION DETAIL
NO SCALE



B
MO.1
TYPICAL VERTICAL FIRE DAMPER DETAIL
NO SCALE



C
MO.1
NON-RATED WALLS
PIPE PENETRATION DETAIL
NO SCALE

LEGEND	
R	REFRIGERANT PIPING
C	PUMPED CONDENSATE PIPING
	AIR CONDITIONING CONDENSATE PIPING
	RECTANGULAR DUCTWORK
	SUPPLY AIR DUCTWORK TURNED DOWN
	SUPPLY AIR DUCTWORK TURNED UP
	RETURN AIR/EXHAUST AIR TURNED DOWN
	RETURN AIR/EXHAUST AIR TURNED UP
	DOUBLE WALL FLAT OVAL SPIRAL DUCTWORK
	DOUBLE WALL ROUND SPIRAL DUCTWORK
	BRANCH TAKEOFF WITH TURNING VANES, SPLITTER DAMPER AND LOCKING QUADRANT
	DUCT TEE WITH TURNING VANES, SPLITTER DAMPER AND LOCKING QUADRANT
	DUCT WITH RUNOUT (SPIN-IN TAKE OFF WITH DAMPER)
	CEILING RETURN AIR/ EXHAUST AIR REGISTER
	CEILING SUPPLY AIR DIFFUSER
	REGISTER, GRILLE OR DIFFUSER SYMBOL
TH	AHU-##
TS	H OR C
	H OR C (HEATING OR COOLING) TEMPERATURE SENSOR
	DISCONNECT SWITCH
	KEYED NOTE SYMBOL
	DUCT SMOKE DETECTOR WITH DUCT ACCESS DOOR, ACCESS DOOR BY THE MECH. CONTR., DETECTOR FURNISHED BY THE ELECT. CONTR. AND INSTALLED BY THE MECH. CONTR. PROVIDE CEILING ACCESS DOOR (16"x16" MIN.) WHERE NECESSARY.
F/D	FIRE DAMPER MOUNTED IN WALL
SA	SUPPLY AIR
RA	RETURN AIR
OA	OUTSIDE AIR
EXA	EXHAUST AIR
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
MD	MANUAL DAMPER
MOD	MOTOR OPERATED DAMPER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
CONC	CONCRETE
CONT	CONTINUATION
CONTR	CONTRACTOR
CO	CLEANOUT
RDL	ROOF DRAIN LEADER

GENERAL NOTES:

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL RELEVANT DIMENSIONS, CLEARANCES, LOCATIONS AND ELEVATIONS PRIOR TO ORDERING, FABRICATION, AND INSTALLATION OF HIS WORK. DISCREPANCIES OR INTERFERENCE'S SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE.
- THE DRAWINGS DIAGRAMMATICALLY INDICATE THE GENERAL LOCATION OF DUCTS, PIPING AND EQUIPMENT AND DO NOT SHOW ALL SUPPORTS, OFFSETS, FITTINGS, BOLTS, CONNECTIONS, ETC. REQUIRED FOR A COMPLETE SYSTEM. WHILE THE DRAWINGS ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE, IF IT IS FOUND NECESSARY TO CHANGE THE LOCATION OF ANY WORK TO ACCOMMODATE THE CONDITIONS AT THE BUILDING, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER, AND AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL PROTECT EQUIPMENT AND SYSTEMS DURING CONSTRUCTION FROM MOISTURE, CONSTRUCTION DEBRIS, DUST AND OTHER FOREIGN MATERIALS BOTH BEFORE AND AFTER INSTALLATION. SELF-ADHESIVE 3-MIL POLYETHYLENE FILM SHALL BE INSTALLED OVER EQUIPMENT, CEILING EXHAUST FANS, DUCTLESS SPLIT SYSTEMS, AHUS, VRF AHUS, OPENINGS IN VAV BOXES, ETC AND ALL OPEN ENDS OF DUCTWORK.
- PROTECT ALL EXISTING EQUIPMENT TO REMAIN DURING CONSTRUCTION. DEENERGIZE EQUIPMENT DURING ANY SANDING, PAINTING AND SWEEPING AND COVER RETURN AIR GRILLES WITH FILTER MEDIA TO KEEP CONSTRUCTION DEBRIS AND DUCT FROM ENTERING DUCT SYSTEMS.
- PROTECT ALL EXISTING DUCTWORK, PIPING AND INSULATION DURING CONSTRUCTION. REPAIR ALL INSULATION TEARS TO MAINTAIN VAPOR BARRIERS ON DUCTWORK AND PIPING.
- HVAC CONTRACTOR/ CONTROLS CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR PROVISIONS OF POWER TO CONTROL SYSTEM CONTROL PANELS, CONTROLLERS, ETC.. NOT SHOWN ON M OR E DRAWINGS. ELECTRICAL CONTRACTOR WILL PROVIDE POWER TO GENERAL POINTS, JUNCTION BOXES, ETC., AND POWER WIRING FROM THOSE POINTS TO EQUIPMENT SHALL BE BY THE HVAC CONTRACTOR/CONTROL CONTRACTOR.
- PIPING, DUCTWORK, ETC., SHALL NOT BE SUPPORTED FROM BAR JOIST BRIDGING OR ROOF DECK. EQUIPMENT SUPPORTED BY BAR JOISTS SHALL HAVE SUPPORTS ATTACHED AS CLOSE AS POSSIBLE TO BAR JOIST PANEL POINTS. HVAC CONTRACTOR SHALL SUPPLY ANY AND ALL STRUCTURAL MEMBERS NECESSARY TO SUPPORT WORK BETWEEN BAR JOISTS, BEAMS, ETC. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS AND SUPPORTS TO STRUCTURE.
- ALL PIPING PENETRATIONS THROUGH NON RATED FLOORS AND WALLS SHALL BE PROTECTED USING DETAILS SHOWN ON SHEET M0.1. ALL DUCT PENETRATIONS THRU NON RATED FLOORS AND WALLS SHALL BE PROTECTED USING DETAIL SHOWN ON SHEET M0.1.
- IN AREAS WITH GYPBOARD CEILINGS, HVAC CONTRACTOR SHALL INSTALL EQUIPMENT, DUCTWORK AND PIPES PRIOR TO GYPBOARD INSTALLATION.
- ALL SUPPLY AND RETURN CONNECTIONS TO AHU SHALL BE MADE WITH A FLEXIBLE DUCT CONNECTION.
- ALL DUCT JOINTS SHALL BE SEALED AS SPECIFIED.
- ALL DUCTWORK DIMENSIONS ON THE DRAWINGS ARE FREE INSIDE DIMENSIONS.
- RETURN AIR DUCTWORK SHALL BE INSTALLED IN SUCH A MANNER THAT DUCT MOUNTED SMOKE DETECTORS ARE NO MORE THAN 24" ABOVE LAY-IN CEILING TILES.
- COORDINATE MECHANICAL DUCTWORK AND PIPING LOCATIONS TO AVOID ALL ELECTRICAL PANELS WITH THE ELECTRICAL CONTRACTOR.
- AIR CONDITIONING CONDENSATE LINES ARE MINIMAL SIZE. DO NOT INSTALL SMALLER THAN ACTUAL COIL CONNECTION SIZE.
- ALL THERMOSTATS AND SWITCHES FOR MECHANICAL SYSTEMS SHALL BE MOUNTED 44" AFF. BOTTOM OF CONTROL PANELS SHALL BE MOUNTED 44" AFF MAXIMUM.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR FINAL LOCATIONS OF REGISTERS, GRILLES, AND DIFFUSERS WITHIN CEILING GRID.
- STRAP ALL NEW ROOFTOP EQUIPMENT TO ROOF CURBS TO WITHSTAND LOADS BASED ON 150 MPH WIND SPEED (NCBC SECTION 1609).
- AS SPECIFIED IN DIVISION 23 SPECIFICATION SECTIONS TO COMPLY WITH SECTION C408 IN THE NORTH CAROLINA CONSERVATION CODE, THE HVAC CONTRACTOR SHALL PROVIDE:
 - DOCUMENTATION AS REQUIRED FOR OPERATION AND MAINTENANCE MANUALS.
 - REPORTS OF CERTIFIED TESTING AND BALANCING OF SYSTEM AIRFLOWS.
 - DEMONSTRATE FUNCTIONAL OPERATION OF ALL SYSTEMS AND EQUIPMENT TO THE ENGINEERING TEAM INCLUDING OBSERVATIONS OF THE INSTALLATION.
 - DEMONSTRATE FUNCTIONALITY OF THE CONTROL SYSTEM TO THE ENGINEERING TEAM INCLUDING SEQUENCES OF OPERATION.

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE

- ☒ COMPLIANCE PER CHAPTER 4 NORTH CAROLINA ENERGY CONSERVATION CODE - SECTIONS C403.2 (MANDATORY), C403.3 ECONOMIZERS (PRESCRIPTIVE) AND C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS.
- ☐ C406.2 MORE EFFICIENT HVAC PERFORMANCE
- ☒ C406.3 REDUCED LIGHTING POWER DENSITY
- ☐ C406.4 ENHANCED LIGHTING CONTROLS
- ☐ C406.5 ON-SITE RENEWABLE ENERGY
- ☐ C406.6 DOAS PROVISION FOR CERTAIN HVAC
- ☐ C406.7 HIGH ENERGY SERVICE WATER HEATING
- ☐ COMPLIANCE PER CHAPTER 4 NORTH CAROLINA ENERGY CONSERVATION CODE - SECTIONS C403.2 (MANDATORY), C403.3 ECONOMIZERS (PRESCRIPTIVE), C403.4 HYDRONIC AND MULTIPLE ZONE (PRESCRIPTIVE) AND C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS.
- ☐ C406.2 MORE EFFICIENT HVAC PERFORMANCE
- ☐ C406.3 REDUCED LIGHTING POWER DENSITY
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- ☐ C406.6 DOAS PROVISION FOR CERTAIN HVAC
- ☐ C406.7 HIGH ENERGY SERVICE WATER HEATING
- ☐ COMPLIANCE PER CHAPTER 4 NORTH CAROLINA ENERGY CONSERVATION CODE - SECTIONS C402.5, C403.2, C404, C405.2, C405.3, C405.5, C405.6 AND C407 TOTAL BUILDING PERFORMANCE. THE BUILDING ENERGY COST SHALL BE EQUAL TO OR LESS THAN 85 PERCENT OF THE STANDARD REFERENCE DESIGN BUILDING.
- ☐ COMPLIANCE PER ANSI/ASHRAE/IESNA 90.1-2013.
- ☐ COMPLIANCE PER NORTH CAROLINA SPECIFIC COMCHECK OR ASHRAE 90.1-2013 COMCHECK.

CLIMATE ZONE 3A

EXTERIOR DESIGN CONDITIONS

winter dry bulb: 24°F
summer dry bulb: 92°F DB/77°F WB

INTERIOR DESIGN CONDITIONS

winter dry bulb: 70°F
summer dry bulb: 74°F
relative humidity: 55%

BUILDING HEATING LOAD: BLOCK LOAD = 362.0 MBH

BUILDING COOLING LOAD: BLOCK LOAD = 33.9 TONS

MECHANICAL SPACING CONDITIONING SYSTEM

Unitary:
description of unit:
heating efficiency:
cooling efficiency:
heat output of unit:
cooling output of unit:
SEE SCHEDULES ON SHEET M2.0

Boiler: N/A
total boiler output. If oversized, state reason.
Chiller: N/A
total chiller capacity. If oversized, state reason.

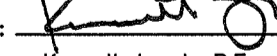
LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON SHEET M2.0

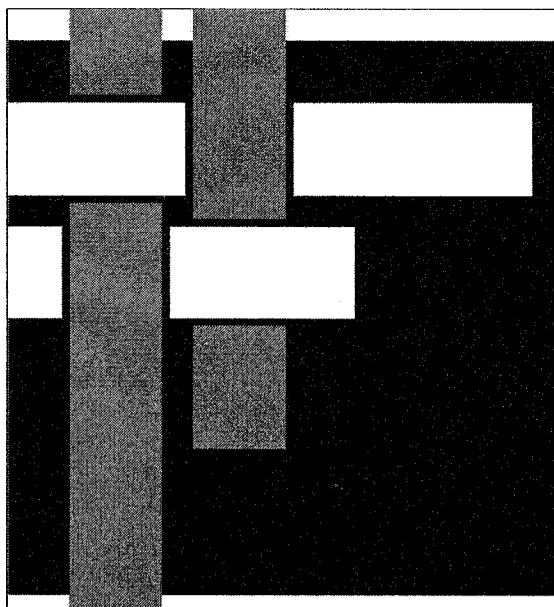
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)

motor horsepower:
number of phases:
minimum efficiency:
motor type:
of poles:
SEE SCHEDULES ON SHEET M2.0

DESIGNER STATEMENT

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Carolina Energy Conservation Code.

SIGNED: 
NAME: Kenneth Lynch, P.E.
TITLE: Professional Engineer



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ARCHITECTURE**

124 Market Street
Wilmington, NC 28401
910 762-0892
s2a3.com

CLH DESIGN, P.A.
401 Higgins Road
Suite 100
Cary, North Carolina 27518
Phone: (919) 916-8716
Fax: (919) 916-7516
LA: C-1169
PE: C-1269

CHEATHAM AND ASSOCIATES, P.A.
CONSULTING ENGINEERS
3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
FAX: (910) 452-4211
OFFICE@CHEATHAMPA.COM
WWW.CHEATHAMPA.COM
NC LICENSE# C-1073

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WOODS ENGINEERING
Consulting Structural Engineers

254 North Front Street
Suite 201
Wilmington, NC 28401
Phone: 910.343.8007
Fax: 910.343.8088
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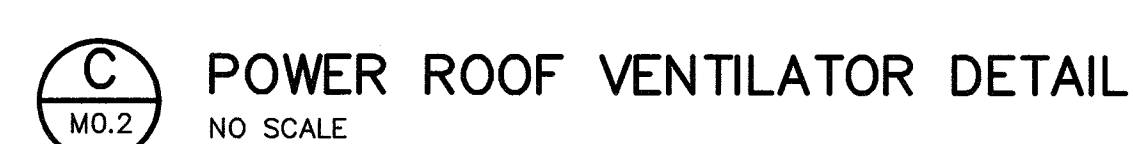
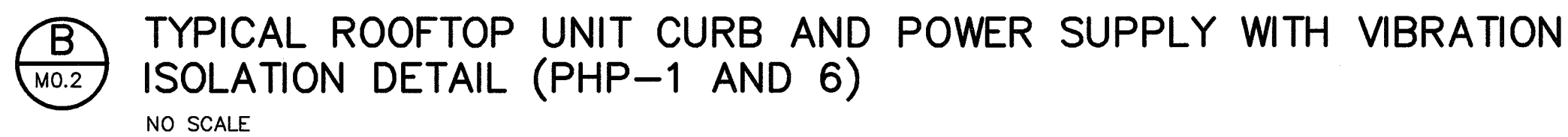
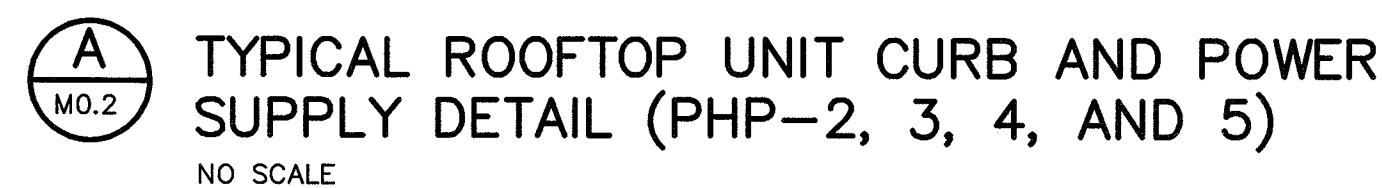
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**MECHANICAL
LEGEND, NOTES,
AND DETAILS**

Rev.	Date	Notes

M0.1



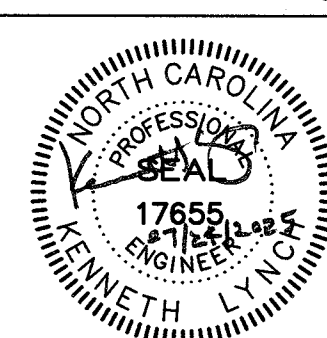
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403 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 315-8716
Fax: (919) 319-7516
LA: C-106
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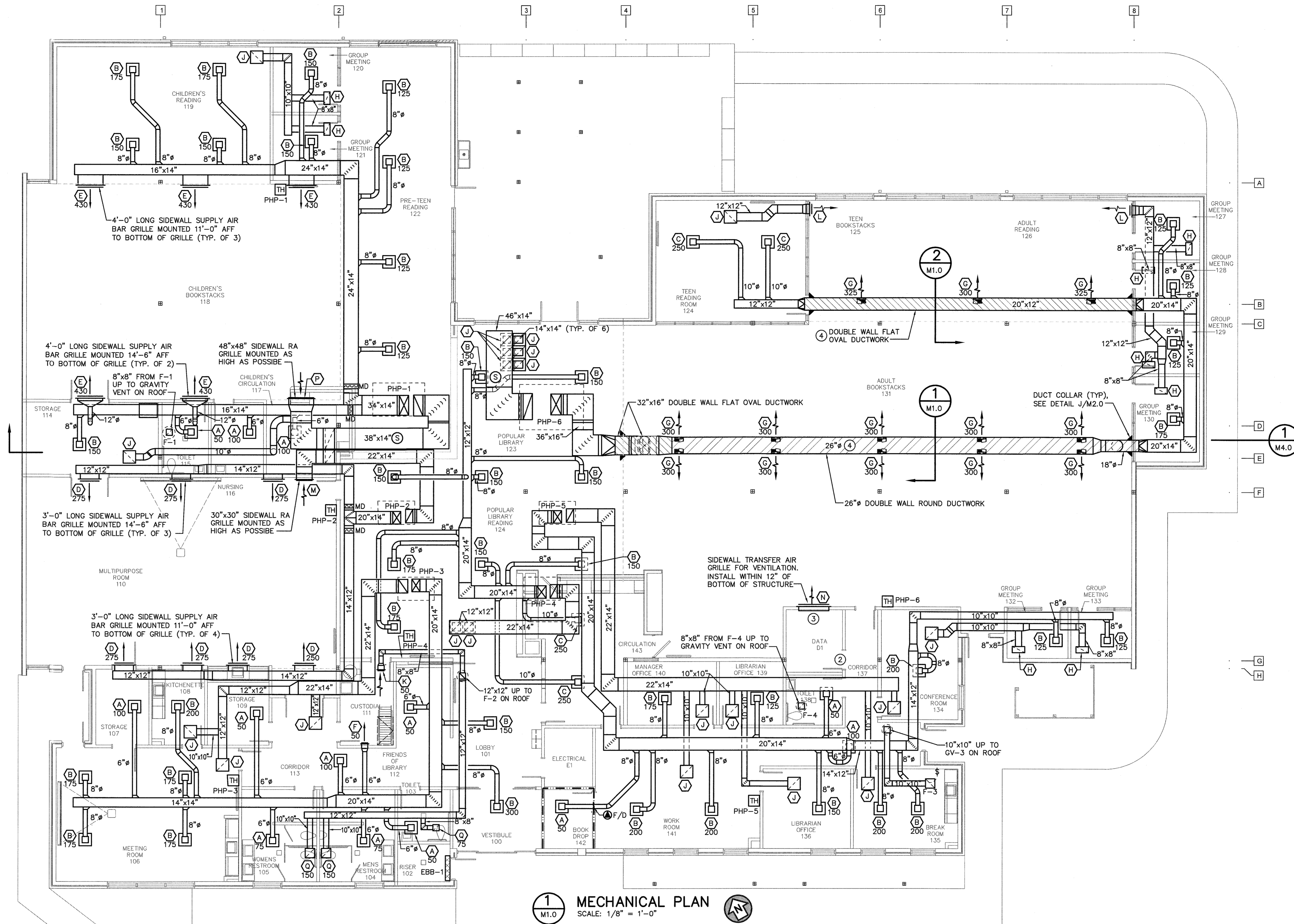
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MECHANICAL DETAILS

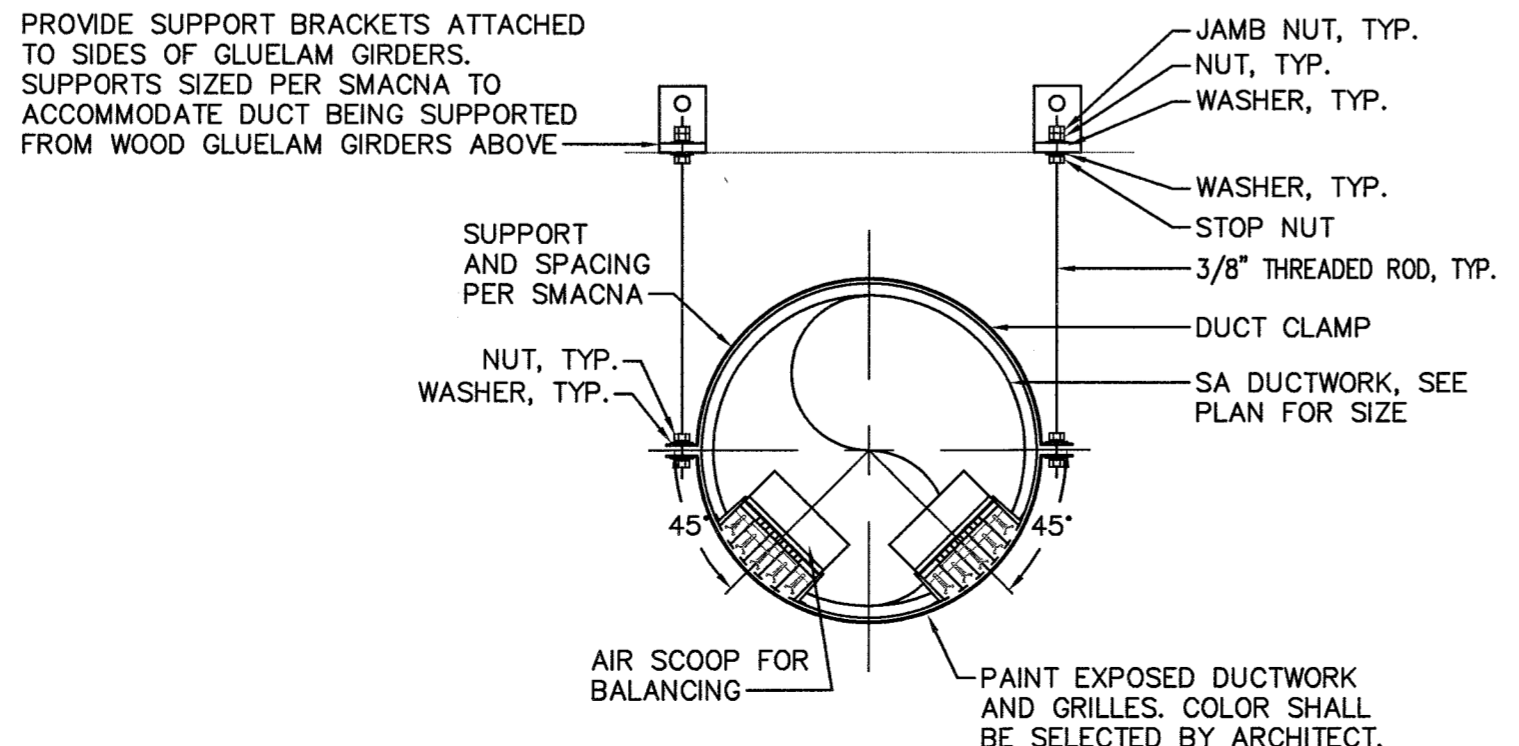
Rev	Date	Notes
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	Date	Notes

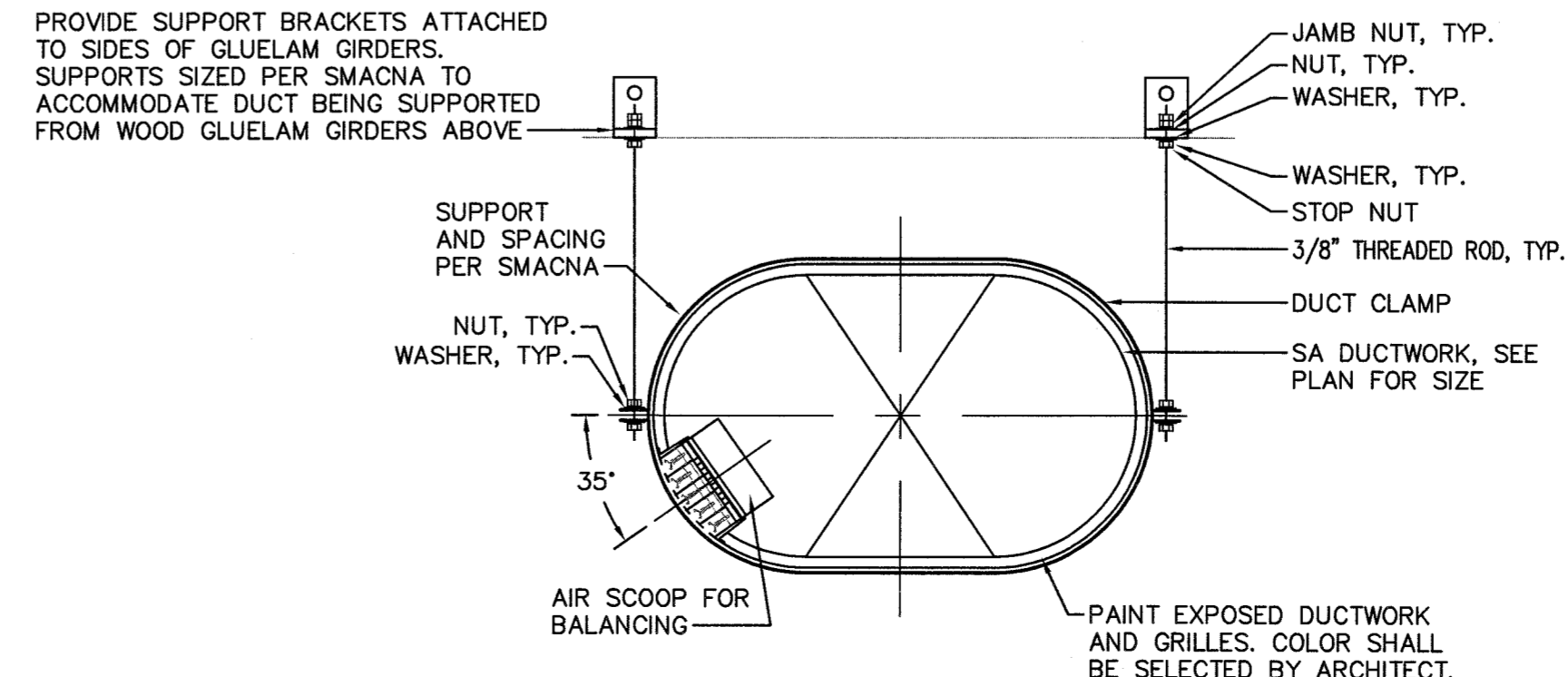
M0.2



1
M1.0
MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

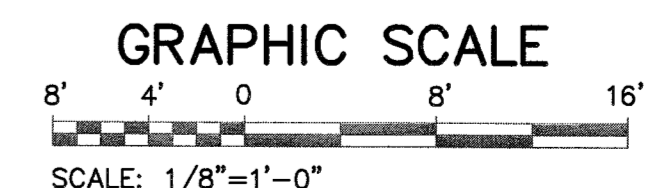


1
M1.0
DOUBLE WALL SPIRAL DUCT SECTION
NO SCALE



2
M1.0
DOUBLE WALL FLAT OVAL SPIRAL DUCT SECTION
NO SCALE

- KEYED NOTES: (THIS SHEET ONLY)**
- PLENUM BOX FULL SIZE OF LOUVER OR RETURN AIR GRILLE.
 - LOUVERED DOOR FOR INTAKE AIR, SEE ARCHITECTURAL DRAWINGS.
 - DUCTED OPENING FULL SIZE OF GRILLE.
 - ALL EXPOSED DUCTWORK AND ASSOCIATED SIDEWALL GRILLES SHALL BE PAINTED BY GC. COLOR SHALL BE SELECTED BY ARCHITECT.



FIRE WALL LEGEND	
— — — — —	2-HOUR RATED FIRE BARRIER

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124 Market Street
Wilmington, NC 28401
910 762-0892
s2a3.com

CLH DESIGN, P.A.

4500 Regatta Court Lane
Suite 100
Oak, North Carolina 27519
Phone: (919) 413-8716
Fax: (919) 413-8716
LA: C-108
PE: C-1085

CHEATHAM AND ASSOCIATES, P.A.
CONSULTING ENGINEERS

3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
FAX: (910) 452-4211
OFFICE@CHEATHAMPA.COM
WWW.CHEATHAMPA.COM
NC LICENSE# C-1073

WOODS ENGINEERING
Consulting Structural Engineers

254 North Front Street
Suite 201
Wilmington, NC 28401
Phone: 910.343.8007
Fax: 910.343.8088
www.woodseng.com

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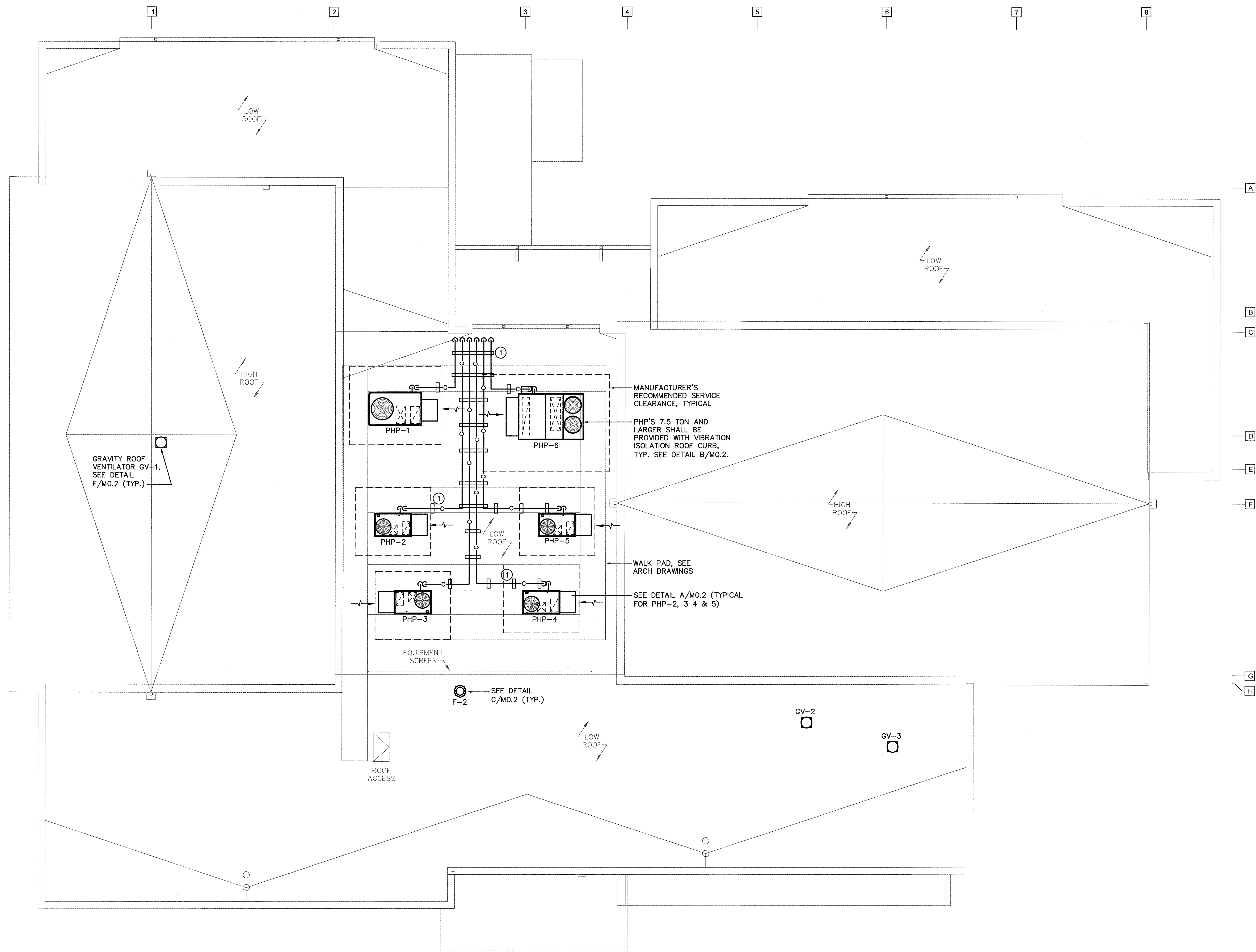
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**MECHANICAL
PLAN**

Rev.	Date	Notes

M1.0

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1
M1.1

MECHANICAL ROOF PLAN

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



GRAPHIC SCALE

8' 4' 0 8' 16'

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

KEYED NOTES: (THIS SHEET ONLY)

- PROVIDE HEAVY DUTY ADJUSTABLE SUPPORT FOR CONDENSATE PIPING TO PROVIDE PROPER SLOPE TO ROOF GUTTER SYSTEM. CONDENSATE SHALL TERMINATE MAX. 6" FROM ROOF GUTTER SYSTEM. PROVIDE ROOF WALKING PADS UNDER SUPPORTS, SEE DETAIL D/M0.2.

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ARCHITECTURE**

124 Market Street
Wilmington, NC 28401
910 762-0892
s2a3.com

CLH DESIGN, P.A.
401 Regency Forest Drive
Suite 100
Cary, NC 27513
Phone: (919) 318-0710
Fax: (919) 318-7516
AL: C-1266
PE: C-1265

CHEATHAM AND ASSOCIATES, P.A.
CONSULTING ENGINEERS
3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
FAX: (910) 452-4211
OFFICE@CHEATHAMPA.COM
WWW.CHEATHAMPA.COM
NC LICENSE# C-1073

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254 North Front Street
Suite 201
Wilmington, NC 28401
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MECHANICAL ROOF PLAN

Rev.	Date	Notes

M1.1

PACKAGED HEAT PUMP UNIT SCHEDULE														
SYMBOL	AIR QUANTITY		EXT. S.P. °H2O (1)	ELECTRICAL					COOLING CAPACITY BTUH (2)	MODULATING HOT GAS REHEAT COIL MIN. SADB °F	HEATING CAPACITY BTUH (5)	SEER	REMARKS	
	TOTAL CFM	OUTSIDE AIR CFM		STRIP HEAT (KW)		MCA	MOCP	VOLTAGE & PHASE						
				KW	STAGES									
PHP-1	4000	650 (4)	0.70	13.5	2	109.0	110.0	208V-3ø	121,000 (6)	72.0 (9)	51,400 (6)	11.0 (5)	(8) (7) (10)	
PHP-2	1900	325	0.65	9.0	2	61.0	70.0	208V-3ø	60,000	72.0 (9)	51,400	14.3	(10) (11)	
PHP-3	1900	325	0.55	9.0	2	61.0	70.0	208V-3ø	60,000	72.0 (9)	51,400	14.3	(10) (11)	
PHP-4	1900	325	0.50	9.0	2	61.0	70.0	208V-3ø	60,000	72.0 (9)	51,400	14.3	(10) (11)	
PHP-5	1900	325	0.75	9.0	2	61.0	70.0	208V-3ø	60,000	72.0 (9)	51,400	14.3	(10) (11)	
PHP-6	5000	850 (4)	1.10	13.5	2	125.0	125.0	208V-3ø	152,600 (6)	72.0 (9)	133,300 (6)	10.6 (5)	(8) (7) (10)	

- (1) EXT. S.P. INCLUDES SUPPLY & RETURN AIR DUCTWORK. FILTERS ARE NOT INCLUDED IN THIS FIGURE.
- (2) AHRI NET CAPACITY.
- (3) CAPACITY AT 47°F OUTSIDE AIR TEMPERATURE.
- (4) MINIMUM OUTSIDE AIR INDICATED. UNIT FURNISHED WITH 100% OA ECONOMIZER WITH GRAVITY RELIEF.
- (5) EER AT AHRI.
- (6) MULTIPLE COMPRESSORS AND/OR STAGES FOR STAGED COOLING AND HEATING.
- (7) SZVAV.
- (8) WITH VIBRATION ISOLATION TYPE ROOF CURB, SEE DETAIL B/M0.2.
- (9) FACTORY INSTALLED MODULATING HOT GAS REHEAT.
- (10) A2L REFRIGERANT, PROVIDE UNIT WITH INTEGRAL REFRIGERANT LEAK DETECTOR AND LEAK SAFETY SEQUENCE OF OPERATION.
- (11) FOR ROOF CURB INSTALLATION, SEE DETAIL A/M0.2.

POWER VENTILATOR SCHEDULE										
SYMBOL	CFM	ESP	RPM	TIP SPEED	ELECTRICAL		TYPE	DRIVE	CONTROL	REMARKS
					HP	VOLTAGE				
F-1	75	0.50"	765	1355	29	① 115V-1ø	CEILING EXHAUST	DIRECT	②	TOILET 115
F-2	425	0.50"	1495	4260	1/15	115V-1ø	ROOF MOUNTED CENTRIFUGAL ③	DIRECT	PHP-3	TOILET 103/MEN'S 104/WOMEN'S 105/CUST 115
F-3	100	0.50"	805	1425	34	① 115V-1ø	CEILING EXHAUST	DIRECT	SWITCH ON WALL	BREAK ROOM 135
F-4	75	0.50"	765	1355	29	① 115V-1ø	CEILING EXHAUST	DIRECT	②	TOILET 138

- (1) WATTS.
- (2) LIGHTING SYSTEM'S OCCUPANCY SENSOR.
- (3) FOR ROOF MOUNTING, SEE DETAIL C/M0.2.

REGISTER, GRILLE & DIFFUSER SCHEDULE					
SYMBOL	CFM	NECK SIZE	TYPE	RUNOUT SIZE	REMARKS
(A)	50-100	6"x6"	2'X2' LAY-IN CEILING SA DIFFUSER	6"ø	
(B)	125-225	9"x9"	2'X2' LAY-IN CEILING SA DIFFUSER	8"ø	
(C)	250-400	12"x12"	2'X2' LAY-IN CEILING SA DIFFUSER	10"ø	
(D)	125 CFM/LF MAX	-	3' SIDEWALL LINEAR BAR GRILLE	-	6" CORE AND 45 DEGREE DEFLECTION (1)
(E)	125 CFM/LF MAX	-	4' SIDEWALL LINEAR BAR GRILLE	-	6" CORE AND 45 DEGREE DEFLECTION (1)
(F)	50-150	10"x6"	SIDEWALL SA REGISTER	8"ø	
(G)	250-400	16"x8"	SPIRAL DUCT SA GRILLE CURVED WITH DUCT	-	WITH INTEGRAL AIR SCOOP
(H)	0-750	10"x22"	1'X2' LAY-IN R.A. REGISTER	SEE PLANS	INSTALL WITH BLADES UP
(J)	750-1600	22"x22"	2'X2' LAY-IN RA REGISTER	-	
(K)	0-300	12"x10"	SIDEWALL RA REGISTER	SEE PLANS	INSTALL WITH BLADES UP
(L)	325-550	18"x12"	SIDEWALL RA GRILLE	SEE PLANS	INSTALL WITH BLADES UP
(M)	2000-2500	30"x30"	SIDEWALL RA REGISTER	SEE PLANS	INSTALL WITH BLADES UP
(N)	875-1175	58"x18"	SIDEWALL RA GRILLE	-	
(P)	4000-6000	48"x48"	SIDEWALL RA REGISTER	-	
(Q)	50-200	10"x10"	EXHAUST REGISTER	SEE PLANS	INSTALL WITH BLADES UP

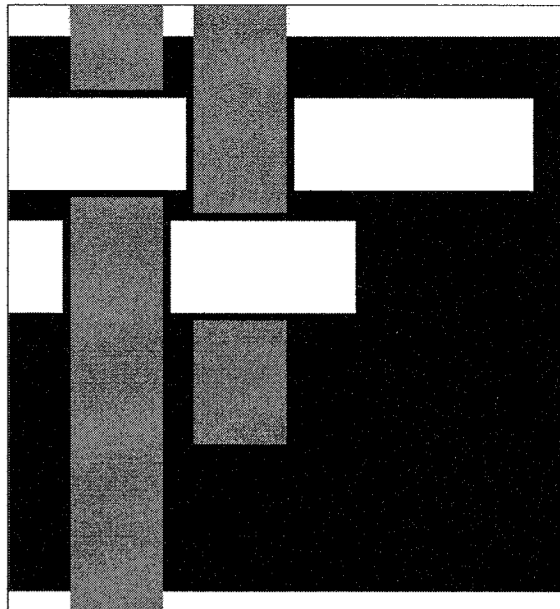
- (1) PROVIDE PLENUM BOX AND OPPOSED BLADE DAMPER.

BASEBOARD SCHEDULE						
SYMBOL	BTU/HR	ELECTRICAL		MAXIMUM LENGTH	MAXIMUM HEIGHT	REMARKS
		WATTS	VOLTAGE & PHASE			
EBB-1	3000	1000	208V-1ø	48"	(1)	RISER ROOM 102

- (1) MOUNT CENTERED ABOVE DOOR.

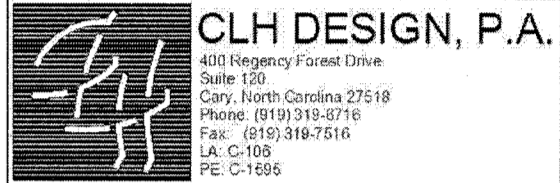
GRAVITY VENTILATOR SCHEDULE					
SYMBOL	CFM	THROAT SIZE	MAX.AIR PRESS. DROP °H2O	TYPE	SERVING
GV-1	75	11"x11"	0.10	EXHAUST AIR	F-1 (1)
GV-2	75	11"x11"	0.10	EXHAUST AIR	F-4 (1)
GV-3	100	11"x11"	0.10	EXHAUST AIR	F-3 (1)

- (1) FOR ROOF MOUNTING, SEE DETAIL F/M0.2.

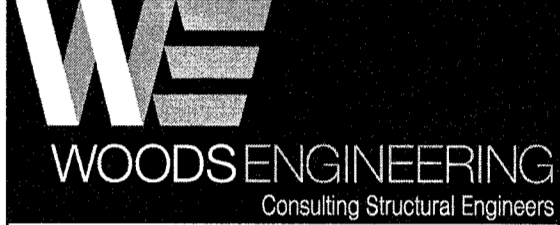


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Wilmington, NC 28401
910 762-0892
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3412 ENTERPRISE DRIVE
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FAX: (910) 452-4211
OFFICE@CHEATHAMPA.COM
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NC LICENSE# C-1073
JOB # 24036



254 North Front Street
Suite 201
Wilmington, NC 28401
Phone: 910.343.8007
Fax: 910.343.8086
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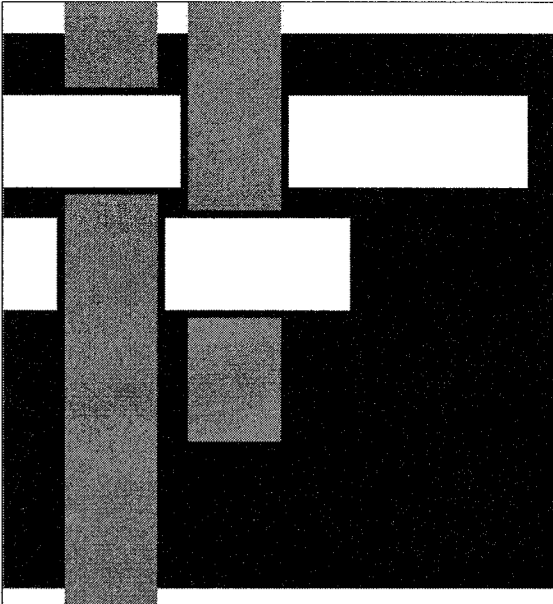
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MECHANICAL SCHEDULES

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ARCHITECTURE**

124 Market Street
Wilmington, NC 28401
910 762-0892
s2a3.com

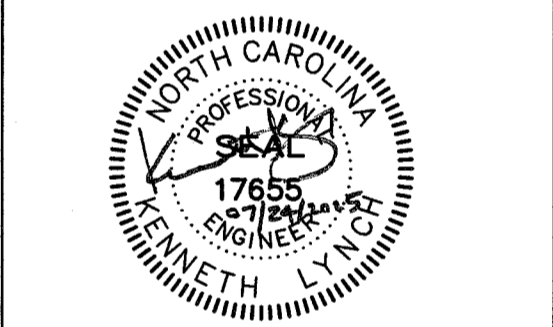
CLH DESIGN, P.A.
400 Regency Forest Drive
Suite 100
Cary, North Carolina 27518
Phone: (919) 313-2716
Fax: (919) 318-7216
LE: C-105
PE: C-105

CHEATHAM AND ASSOCIATES, P.A.
CONSULTING ENGINEERS
3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
FAX: (910) 452-4211
OFFICE@CHEATHAMPA.COM
WWW.CHEATHAMPA.COM
NC LICENSE# C-1073

WOODS ENGINEERING
Consulting Structural Engineers
254 North Front Street
Suite 201
Wilmington, NC 28401
Phone: 910.343.8007
Fax: 910.343.8088
www.woodseng.com

ReThinking Libraries
508 Villanova Ct
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317-509-3268
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**Pender County
Library
Hampstead Branch**

15146 US Hwy 17
Hampstead, NC 28443

Construction Drawings

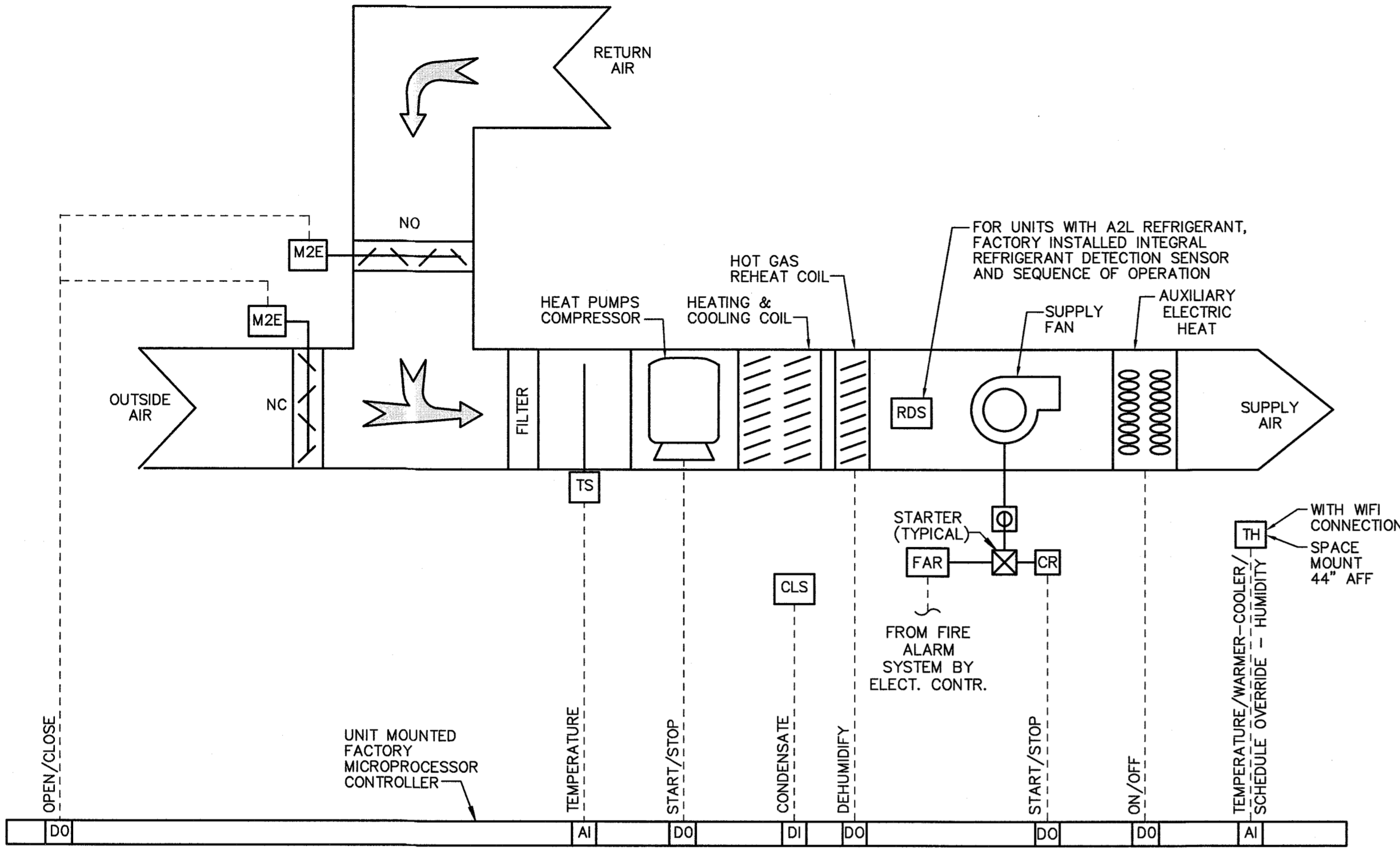
Issue Date: July 23, 2025

**MECHANICAL
CONTROL
DIAGRAMS**

Rev.	Date	Notes

M3.0

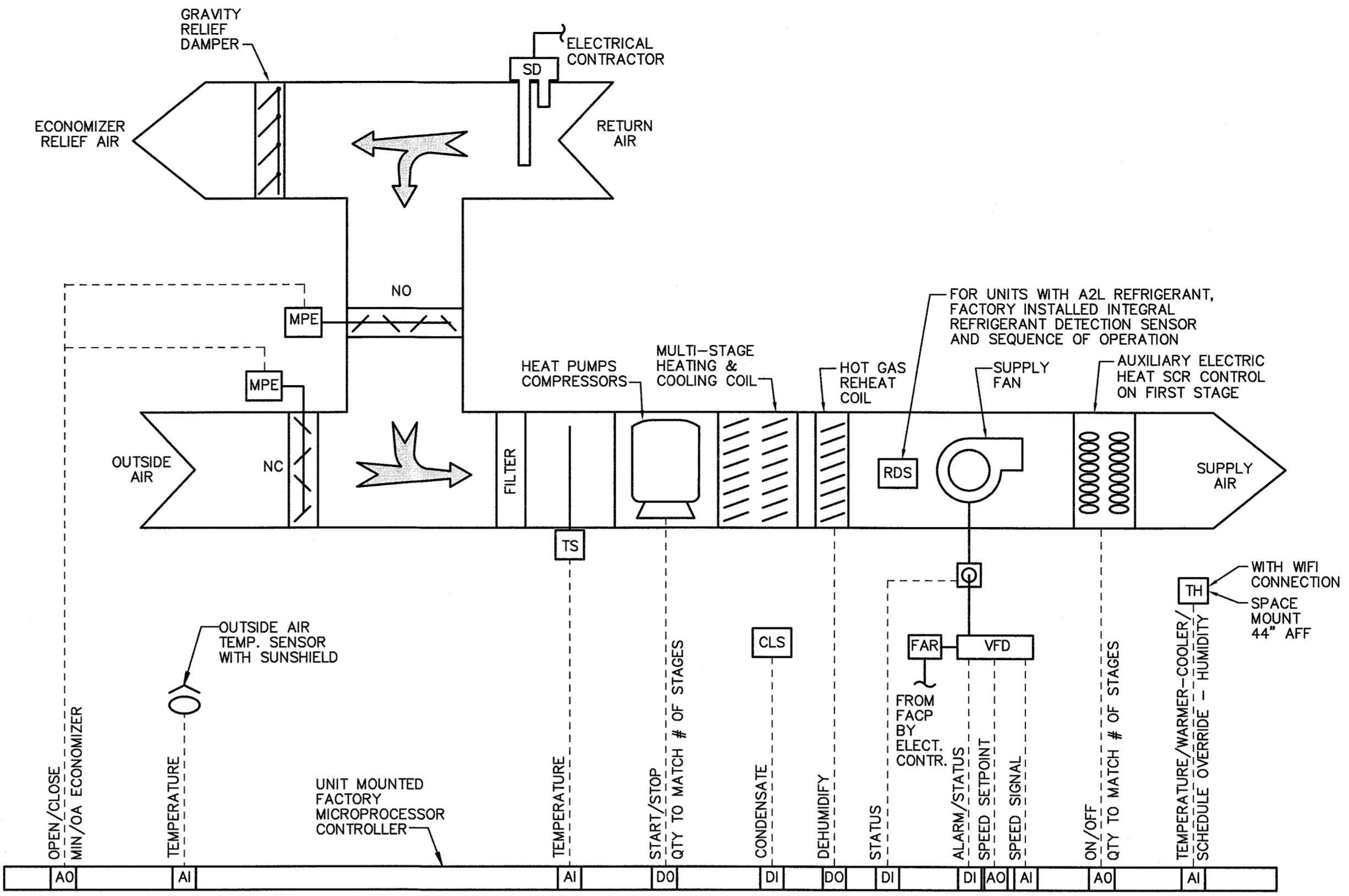
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PACKAGED HEAT PUMP UNIT (PHP-2, 3, 4 & 5)

SEQUENCE OF OPERATION

- A. OCCUPIED:
1. THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY.
 2. OUTSIDE AIR DAMPER AND RETURN AIR DAMPER SHALL OPEN TO POSITIONS FOR MINIMUM OUTSIDE AIR AIRFLOW.
 3. WHEN THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT, THE COMPRESSOR SHALL OPERATE COOLING TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 4. WHEN THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT, THE COMPRESSOR AND AUXILIARY ELECTRIC HEAT SHALL OPERATE HEATING IN STAGES AS NECESSARY TO MAINTAIN THE SPECIFIED SPACE TEMPERATURE SETPOINT.
- B. UNOCCUPIED: DURING THE UNOCCUPIED MODE, THE UNIT SHALL BE ENERGIZED WHEN NEEDED TO MAINTAIN THE UNOCCUPIED OR NIGHT SETBACK SPACE TEMPERATURE SETPOINTS AND UNIT SUPPLY FAN SHALL BE ON TO OPERATE THE SAME AS IN OCCUPIED MODE. OUTDOOR AIR DAMPERS SHALL BE CLOSED. RETURN AIR DAMPER SHALL BE OPEN FULL. FAN SPEED, COMPRESSORS AND AUXILIARY ELECTRIC HEAT SHALL OPERATE IN COOLING AND HEATING TO MAINTAIN SPACE TEMPERATURE SETPOINTS. UNIT AND FAN SHALL BE OFF WHEN THE SETPOINTS ARE SATISFIED. THE UNIT MAY BE RESET TO THE OCCUPIED MODE FOR A PREDETERMINED TIME PERIOD UPON A SIGNAL FROM THE THERMOSTAT.
- C. DE-HUMIDIFICATION: IF THE SPACE RELATIVE HUMIDITY RISES ABOVE A LIMIT OF 65% RH (ADJUSTABLE), SYSTEM COOLING SHALL BE ENERGIZED, HOT GAS REHEAT SHALL OPERATE AND MODULATE AS NECESSARY TO MAINTAIN THE SPACE TEMPERATURE AT COOLING SET POINT. WHEN THE HUMIDITY FALLS TO 50% RH (ADJUSTABLE), THE SYSTEM SHALL REVERT TO NORMAL MODE OF OPERATION.
- D. VENTILATION:
1. DURING THE OCCUPIED PERIOD THE DAMPERS SHALL MAINTAIN MINIMUM VENTILATION RATE. MINIMUM VENTILATION RATE IS INDICATED IN PACKAGED UNIT SCHEDULE ON THE DRAWINGS. THE OUTDOOR AIR DAMPER SHALL REMAIN CLOSED DURING UNOCCUPIED PERIODS AND UNOCCUPIED LOW/HIGH LIMIT CONDITIONS.
- E. SAFETIES:
1. UPON HIGH LEVELS OF CONDENSATE IN PAN, COOLING SHALL BE DEENERGIZED.
 2. UNITS SHALL DEENERGIZE IMMEDIATELY ON SIGNAL FROM FIRE ALARM SYSTEM.
 3. SYSTEMS USING A2L REFRIGERANTS:
 - a. SYSTEMS USING A2L WITH REFRIGERANT CHARGE > 4.0 LBS SHALL HAVE INTEGRAL FACTORY INSTALLED REFRIGERANT LEAK DETECTION SYSTEM MOUNTED IN THE AIR HANDLING UNIT SECTION DOWNSTREAM OF THE EVAPORATOR AND HGRH COILS WITH INTERNAL CONTROLS TO AUTOMATICALLY UPON REFRIGERANT DETECTED, UNIT COMMANDS COMPRESSORS AND ELECTRIC HEAT (IF PRESENT) OFF, AND COMMANDS AIR HANDLING UNIT'S FAN TO MAXIMUM AIRFLOW FOR AIR CIRCULATION. ONCE REFRIGERANT HAS NOT BEEN DETECTED FOR A MINIMUM OF 5 MINUTES, UNIT SHALL RETURN TO NORMAL OPERATION.
 - b. FOR SYSTEMS USING A2L REFRIGERANT, IF RELEASABLE REFRIGERANT CHARGE IN THE SYSTEM EXCEEDS THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 - 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME, PROVIDE SAFETY ISOLATION VALVES IN BOTH REFRIGERANT LINES AS RELEASE MITIGATION CONTROLS. VALVES SHALL AUTOMATICALLY CLOSE UPON SIGNAL FROM THE UNIT INTEGRAL REFRIGERANT LEAK DETECTOR. VALVE LOCATIONS SHALL BE AS SUCH FOR RELEASABLE REFRIGERANT CHARGE TO BE LESS THAN THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 - 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME.



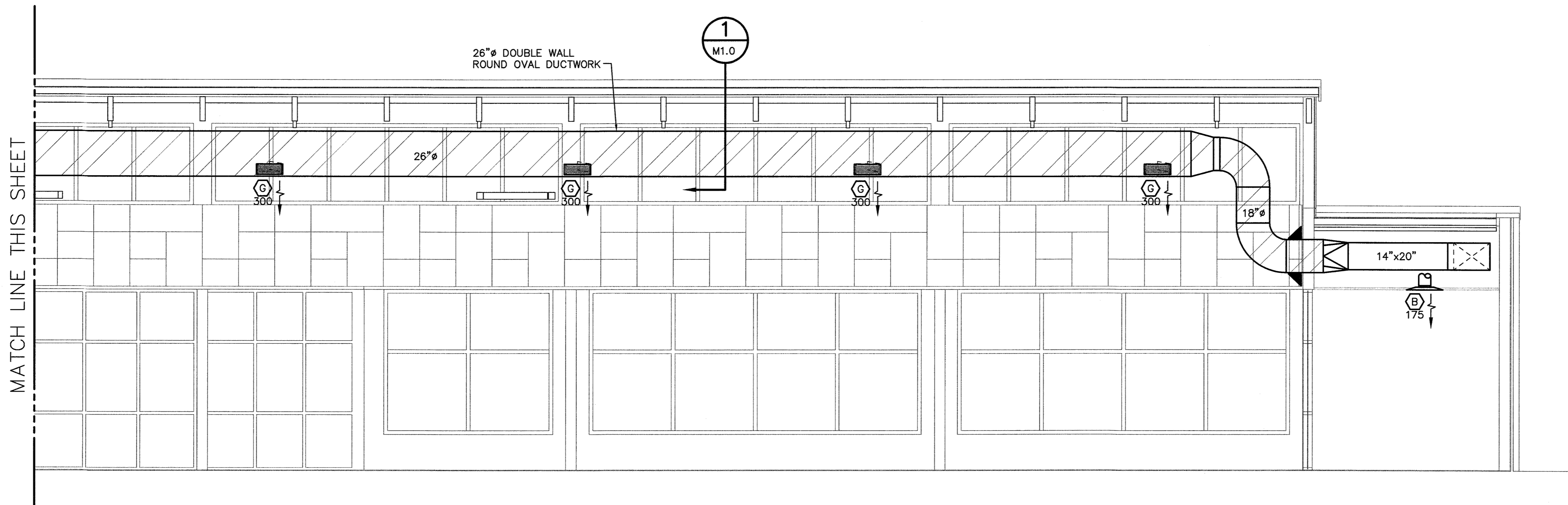
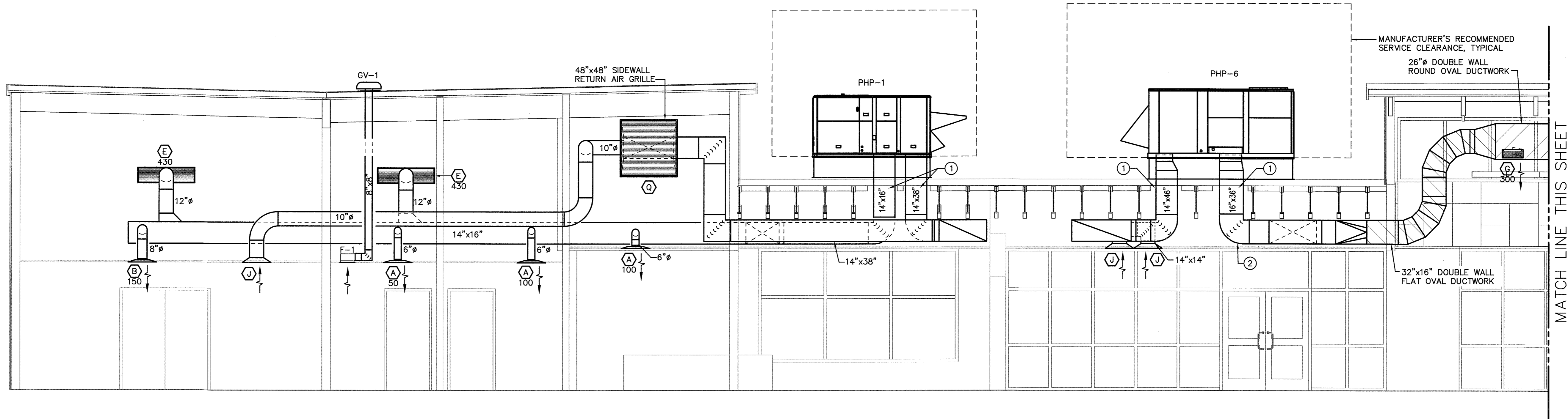
PACKAGED HEAT PUMP UNIT- SINGLE ZONE VAV & OA ECONOMIZER (PHP-1 & 6)

SEQUENCE OF OPERATION

- A. OCCUPIED:
1. THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY.
 2. OUTSIDE AIR DAMPER AND RETURN AIR DAMPER SHALL OPEN TO POSITIONS FOR MINIMUM OUTSIDE AIR AIRFLOW.
 3. WHEN THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT, THE COMPRESSORS SHALL OPERATE COOLING IN STAGES AND SUPPLY AIR FAN SHALL ADJUST SPEED TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 4. WHEN THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT, THE COMPRESSORS AND AUXILIARY ELECTRIC HEAT SHALL OPERATE HEATING IN STAGES AS NECESSARY TO MAINTAIN THE SPECIFIED SPACE TEMPERATURE SETPOINT AND SUPPLY AIR FAN SHALL BE AT FULL SPEED.
- B. UNOCCUPIED: DURING THE UNOCCUPIED MODE, THE UNIT SHALL BE ENERGIZED WHEN NEEDED TO MAINTAIN THE UNOCCUPIED OR NIGHT SETBACK SPACE TEMPERATURE SETPOINTS AND UNIT SUPPLY FAN SHALL BE ON TO OPERATE THE SAME AS IN OCCUPIED MODE. OUTDOOR AIR DAMPERS SHALL BE CLOSED. RETURN AIR DAMPER SHALL BE OPEN FULL. FAN SPEED, COMPRESSORS AND AUXILIARY ELECTRIC HEAT SHALL OPERATE IN COOLING AND HEATING TO MAINTAIN SPACE TEMPERATURE SETPOINTS. UNIT AND FAN SHALL BE OFF WHEN THE SETPOINTS ARE SATISFIED. THE UNIT MAY BE RESET TO THE OCCUPIED MODE FOR A PREDETERMINED TIME PERIOD UPON A SIGNAL FROM THE THERMOSTAT.
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- D. ECONOMIZER AND VENTILATION CYCLES:
1. DURING THE OCCUPIED PERIOD THE DAMPERS SHALL MODULATE TO MAINTAIN MINIMUM VENTILATION RATE. RELIEF AIR DAMPER SHALL BE CLOSED. MINIMUM VENTILATION RATE IS INDICATED IN PACKAGED UNIT SCHEDULE ON THE DRAWINGS. THE OUTDOOR AIR DAMPER SHALL REMAIN CLOSED DURING UNOCCUPIED PERIODS AND UNOCCUPIED LOW/HIGH LIMIT CONDITIONS.
 2. DURING THE OCCUPIED PERIOD WHEN THERE IS A CALL FOR COOLING BASED ON SPACE TEMPERATURE AND OUTSIDE AIR DRY BULB TEMPERATURE IS 55°F (ADJUSTABLE) OR LESS, ECONOMIZER MODE SHALL BE ENABLED. UNIT SHALL USE OUTDOOR AIR DAMPERS MODULATING OPEN OPEN TO 100%, RELIEF AIR DAMPERS OPENING AS NECESSARY, AND RETURN AIR DAMPERS MODULATING CLOSED TO 100% TO SATISFY SPACE COOLING SETPOINT. IF OUTDOOR AIR DAMPERS ARE 100% OPEN AND SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT, THE COMPRESSORS SHALL OPERATE IN COOLING.
- E. SAFETIES:
1. UPON HIGH LEVELS OF CONDENSATE IN PAN, COOLING SHALL BE DEENERGIZED.
 2. UNITS SHALL DEENERGIZE IMMEDIATELY ON SIGNAL FROM FIRE ALARM SYSTEM.
 3. SYSTEMS USING A2L REFRIGERANTS:
 - a. SYSTEMS USING A2L WITH REFRIGERANT CHARGE > 4.0 LBS SHALL HAVE INTEGRAL FACTORY INSTALLED REFRIGERANT LEAK DETECTION SYSTEM MOUNTED IN THE AIR HANDLING UNIT SECTION DOWNSTREAM OF THE EVAPORATOR AND HGRH COILS WITH INTERNAL CONTROLS TO AUTOMATICALLY UPON REFRIGERANT DETECTED, UNIT COMMANDS COMPRESSORS AND ELECTRIC HEAT (IF PRESENT) OFF, AND COMMANDS AIR HANDLING UNIT'S FAN TO MAXIMUM AIRFLOW FOR AIR CIRCULATION. ONCE REFRIGERANT HAS NOT BEEN DETECTED FOR A MINIMUM OF 5 MINUTES, UNIT SHALL RETURN TO NORMAL OPERATION.
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CONTROL SYMBOL LEGEND

TH	TEMPERATURE/HUMIDITY SENSOR	CLS	CONDENSATE LEVEL SENSOR
CR	CONTROL RELAY	O/V	OCCUPANCY/VACANCY SENSOR
M2E	MOTOR OPERATED TWO POSITION ELECTRIC	SA	SUPPLY AIR
MPE	MOTOR OPERATED PROPORTIONAL ELECTRIC	RA	RETURN AIR
NO	NORMALLY OPEN	OA	OUTSIDE AIR
NC	NORMALLY CLOSED	⊗	CURRENT SENSOR
FAR	FIRE ALARM RELAY	⊠	STARTER
RDS	REFRIGERANT LEAK DETECTION SYSTEM		

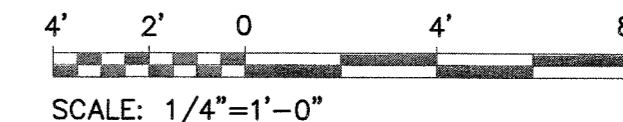


1 MECHANICAL SECTION
SCALE: 1/4" = 1'-0"

KEYED NOTES: (THIS SHEET ONLY)

- BOX OUT STRUCTURE AS NECESSARY FOR DUCTWORK PENETRATION THROUGH ROOF. SEE STRUCTURAL DRAWINGS. COORDINATE ACTUAL SIZE AND LOCATIONS WITH EQUIPMENT BEING PROVIDED.
- 90 DEGREE SQUARE THROAT WITH RADIUS ELBOW AT BOTTOM OF DUCTWORK TO/FROM PHP'S ON ROOF, TYPICAL FOR SUPPLY AND RETURN DUCTWORK.

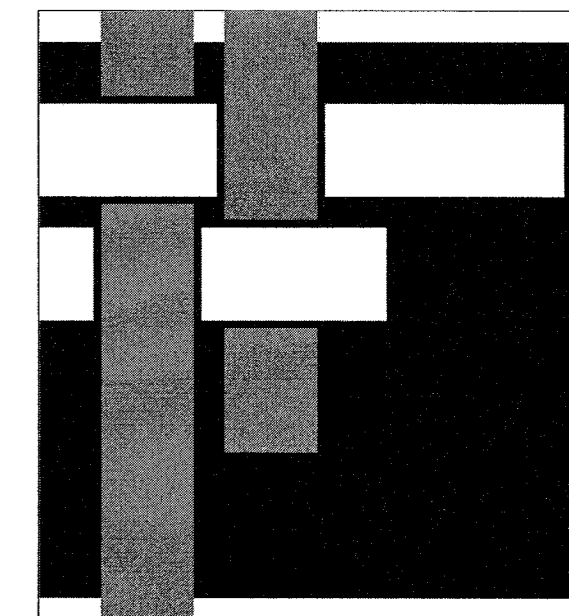
GRAPHIC SCALE



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

FIRE WALL LEGEND

---	2-HOUR RATED FIRE BARRIER
-----	---------------------------



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& ASSOCIATE
ARCHITECTURE**

124 Market Street
Wilmington, NC 28401
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s2a3.com

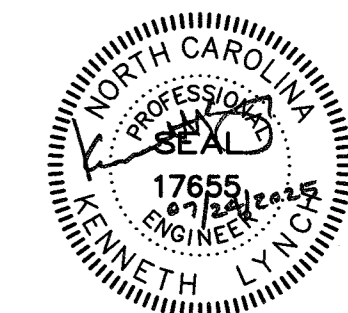
CLH DESIGN, P.A.
4201 Hargett Forest Drive
Suite 100
Cary, North Carolina 27518
Phone: (919) 318-0716
Fax: (919) 318-1516
LA C-108
PC C-1289

CHEATHAM AND ASSOCIATES, P.A.
CONSULTING ENGINEERS
3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
FAX: (910) 452-4211
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WE
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Construction Drawings

Issue Date: July 23, 2025

**MECHANICAL
SECTIONS**

Rev.	Date	Notes

M4.0

ELECTRICAL NOTES

1.

ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
2.

PERMITS FOR ELECTRICAL WORK SHALL BE OBTAINED BY AND PAID BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PAY FOR ANY ADDITIONAL FEES FOR INSPECTIONS, TESTS, AND OTHER SERVICES AS REQUIRED FOR THE COMPLETION OF THE WORK.
3.

THE ELECTRICAL CONTRACTOR AND ANY OF HIS SUBCONTRACTORS SHALL VISIT THE PROJECT SITE TO WITNESS EXISTING CONDITIONS AND BECOME FAMILIAR WITH THE SCOPE OF THE WORK REQUIRED PRIOR TO SUBMITTING PROPOSALS. WORK REQUIRED BY EXISTING JOB CONDITIONS NOT INDICATED ON DRAWINGS SHALL BE INCLUDED IN THE PROPOSALS.
4.

THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO RESULT IN THE PRODUCTION OF A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT, AND OTHER SERVICES AS NECESSARY TO COMPLETE THE WORK.
5.

DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS THAT WILL AFFECT THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO SUBMITTING PROPOSALS.
6.

UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND INCLUDE A 3RD PARTY LABEL (I.E.: UL, CSA, ETL, ETC.) LISTING APPROVAL FOR ITS INSTALLED APPLICATION.
7.

REVIEW PLANS OF OTHER TRADES FOR COORDINATION OF WORK AND FOR RELATED AND ADJOINING WORK.
8.

REVIEW COMPLETE PLAN SET FOR CONSTRUCTION TYPE, FINISHES, HEADROOM, ROOF FINISHES, CEILINGS, ETC. REVIEW COMPLETE PLAN SET FOR PROJECT PHASING AND STAGING. REVIEW COMPLETE PLAN SET FOR WORK COVERED BY ALTERNATE BID ITEMS.
9.

COORDINATE DEVICE AND EQUIPMENT MOUNTING HEIGHTS WITH OTHER DISCIPLINE DRAWINGS, CASEWORK DETAILS & SUBMITTALS, EQUIPMENT DETAILS & SUBMITTALS, ETC.
10.

PENETRATIONS OF FIRE-RATED WALLS, FLOORS, CEILINGS, AND PARTITIONS SHALL BE FIRE STOPPED IN ACCORDANCE WITH REQUIREMENTS OF THE STATE BUILDING CODE. COORDINATE WORK TO INSURE THAT FIRE STOPPING IS COMPLETED.
11.

PENETRATIONS OF EXTERIOR BUILDING WALLS, FLOORS, OR ROOFS SHALL BE SEALED WATERTIGHT. INTERIORS OF RACEWAY PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SEALED WITH NON-HARDENING ELECTRICAL PUTTY.
12.

CUTTING AND PATCHING TO INSTALL DEVICES AND EQUIPMENT SHALL BE PERFORMED WITH FINISHES RESTORED TO THEIR ORIGINAL CONDITION. SUCH WORK SHALL BE COMPLETED TO A DEGREE THAT IS ACCEPTABLE TO THE ARCHITECT AND ENGINEER.
13.

COORDINATE PRECISE LOCATION OF HVAC EQUIPMENT WITH THE MECHANICAL CONTRACTOR.
14.

FOR HVAC EQUIPMENT, VERIFY CIRCUIT BREAKER RATINGS, FUSE RATINGS, AND WIRE SIZES. IF RATINGS DIFFER FROM THOSE INDICATED ON THE DRAWINGS, NOTIFY THE ARCHITECT AND ENGINEER FOR DIRECTION. PROVIDE OVERCURRENT PROTECTION IN ACCORDANCE WITH EQUIPMENT MANUFACTURER NAMEPLATE DATA. IF THE EQUIPMENT LISTING LABEL REQUIRES FUSED PROTECTION, ENSURE THAT FUSES IN A FUSED DISCONNECT SWITCH AT THE EQUIPMENT ARE SIZED AS INDICATED ON THE EQUIPMENT LABEL.
15.

VERIFY PROPER SIZING OF OVERLOAD DEVICES IN STARTERS BASED ON EQUIPMENT NAMEPLATE DATA.
16.

IF HORSEPOWER OR LOAD RATINGS OF EQUIPMENT DIFFER FROM THOSE INDICATED ON THE DRAWINGS, NOTIFY THE ARCHITECT, ENGINEER, AND OWNER FOR DIRECTION.
17.

PROVIDE NATIONAL ELECTRICAL CODE REQUIRED CLEARANCES FOR ALL ELECTRICAL EQUIPMENT. COORDINATE RESOLUTION OF CONFLICTS WITH OTHER TRADES.
18.

RECEPTACLE, SWITCH, DATA/TELEPHONE OUTLETS SHALL BE FLUSH MOUNTED IN FINISHED SPACES UNLESS OTHERWISE NOTED.
19.

WHERE INSTALLED IN PLENUM SPACES, CABLES SHALL BE PLENUM-RATED OR INSTALLED IN METAL RACEWAY.
20.

PRIOR TO ORDERING LIGHT FIXTURES, CONTRACTOR SHALL VERIFY TYPE OF CEILING OR WALL BY REVIEW OF ARCHITECTURAL FINISH SCHEDULES AND PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL INDICATED.
21.

RECESSED LIGHT FIXTURES INSTALLED IN CEILINGS WITH INSULATION (AS INDICATED IN ARCHITECTURAL PLANS, OR FOUND AS EXISTING CONDITIONS) SHALL BE U.L. RATED FOR DIRECT CONTACT WITH INSULATION.
22.

EXIT AND EMERGENCY LIGHTS SHALL BE CONNECTED TO THE NEAREST UNSWITCHED CIRCUIT THAT SERVES LIGHT FIXTURES WITHIN THE SAME SPACE.
23.

NO MOUNTING HARDWARE SHALL BE ATTACHED TO ROOF DECKS. ATTACHMENTS SHALL BE MADE TO THE ROOF SUPPORTING STRUCTURE.
24.

PANEL BUS MATERIAL: COPPER.
25.

SHARED NEUTRAL CONDUCTORS SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED SO ON HOMERUN CIRCUITRY DESIGNATIONS.
26.

PANEL BREAKER CONFIGURATIONS SHALL BE INSTALLED AS INDICATED ON THE PANEL SCHEDULES OR AS NOTED. BREAKER POSITION REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.
27.

LOAD CIRCUITS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS. CIRCUITRY REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.

ABBREVIATIONS

ADA	AMERICAN DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPABILITY
BKR	BREAKER
C	CONDUIT
C/B	CIRCUIT BREAKER
CLG	CEILING
CKT	CIRCUIT
CU	COPPER
DIA	DIAMETER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ENCL	ENCLOSED
ERCCS	EMERGENCY RESPONDER COMMUNICATION COVERAGE SYSTEM
EXSTG	EXISTING
FACP	FIRE ALARM CONTROL PANEL
G	EQUIPMENT GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSEPOWER
K	KILO (THOUSAND)
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS
MC	MECHANICAL CONTRACTOR
MH	METAL HALIDE
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MLO	MAIN LUG ONLY
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NTS	NOT TO SCALE
P	PHASE OR POLE
PC	PLUMBING CONTRACTOR
PH	PHASE
PHP	PACKAGED HEAT PUMP
PNL	PANEL
PROJ	PROJECTOR
PS	PROJECTOR SCREEN
REQ.	REQUIRED
SYS	SYSTEM
S/N	SOLID NEUTRAL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPS
W	WATTS
W	WIRE
W/	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL LOAD SUMMARY

	CONN KVA	CALC KVA		CONN KVA	CALC KVA		
LIGHTING	18.6	23.3	(125%)	KITCHEN EQUIPMENT	1	1	(100%)
LARGEST MOTOR	10.6	2.65	(25%)	CONTINUOUS	21	26.3	(125%)
MOTORS	6.14	6.14	(100%)	NONCONTINUOUS	16.2	16.2	(100%)
RECEPTACLES	42	26	(50%>10)	HEATING	136	136	(100%)
				COOLING	72.5	0	(0%)
				TOTAL LOAD		237	
				BALANCED 3-PHASE LOAD		659 A	

WARNING

Maximum Available Fault Current:
14,603 Symmetrical RMS Amperes

Date Calculated: 07/02/2025

Based on :
Utility Transformer: 300 kVA (Maximum)
Utility Transformer: 3.5% Impedance (Minimum)
Service Feeder: #400kcmil (3 SETS)(Maximum) Copper
Service Feeder Length: 231' (Minimum)
Motor Load: 225.14 kVA (Maximum)

NOTE:
THE CONTRACTOR SHALL OBTAIN INSTALLED SERVICE TRANSFORMER DATA AND AVAILABLE FAULT CURRENT DATA FROM THE UTILITY COMPANY. FORWARD INFORMATION TO THE ENGINEER FOR ASSESSMENT OF REVISIONS TO THE LABEL DATA.

A

E0.1

FAULT CURRENT LABEL
FOR SERVICE EQUIPMENT

NO SCALE

APPENDIX B, BUILDING CODE SUMMARY
ELECTRICAL SUMMARY

METHOD OF COMPLIANCE
-ENERGY CODE: ☒ PRESCRIPTIVE ☐ PERFORMANCE
-ASHRAE 90.1: ☐ PRESCRIPTIVE ☐ PERFORMANCE

LIGHTING SCHEDULE

Lamp Type Required in Fixtures
Number of Lamps in Fixtures
Ballast Types Used in Fixtures
Number of Ballasts Used in Fixtures
Total Wattage per Fixture

SEE LIGHT FIXTURE /
LUMINAIRE SCHEDULE

TOTAL WATTAGE SPECIFIED VERSUS ALLOWED

Interior Specified: 18613 Watts
Interior Allowed: 21878 Watts

Exterior Specified: 580 Watts
Exterior Allowed: 1251 Watts

ADDITIONAL METHOD OF COMPLIANCE:

☐ C406.2 More Efficient HVAC Equipment Performance
☒ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

DESIGNER STATEMENT

To the best of my knowledge and belief, the design of this building complies with the electrical systems and equipment requirements of the North Carolina State Building Code, Section 406 of the North Carolina Energy Conservation Code.

SIGNED: Mark A. Ciarrocca

NAME: Mark A. Ciarrocca, P.E.

TITLE: Engineer

SAWYER
SHERWOOD
& ASSOCIATE
ARCHITECTURE

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s2a3.com

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4011 Regency Forest Drive
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Date: 2025.07.25 19:55:46-04'00'

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Issue Date: July 23, 2025

ELECTRICAL
NOTES, LOADS,
FAULT CURRENT

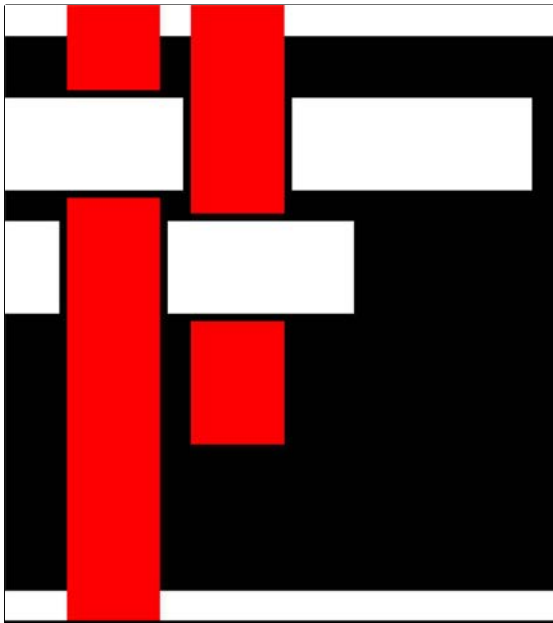
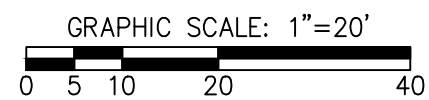
Rev.	Date	Notes

E0.1

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1 ELECTRICAL SITE DEMOLITION PLAN
SCALE: 1" = 20'-0"



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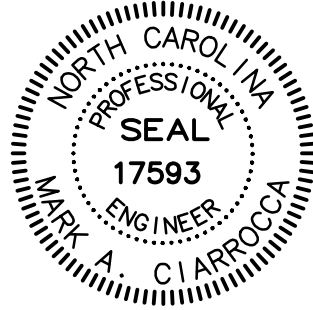
CLH DESIGN, P.A.
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Suite 120
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Phone: (919) 318-2718
Fax: (919) 318-7516
LA: C-1188
RE: C-1595

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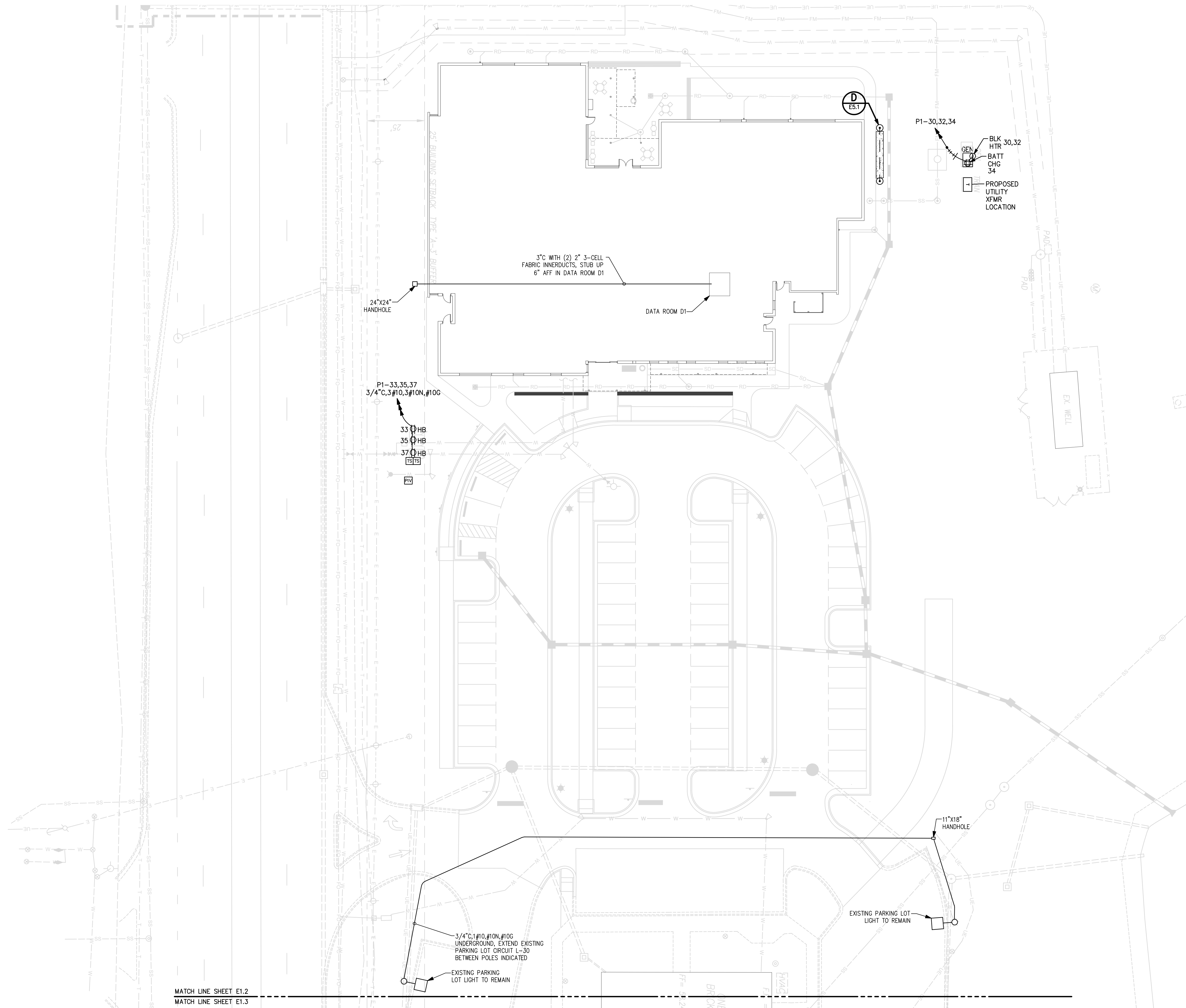
Construction Drawings

Issue Date: July 23, 2025

**ELECTRICAL
SITE DEMOLITION
PLAN**

Rev.	Date	Notes

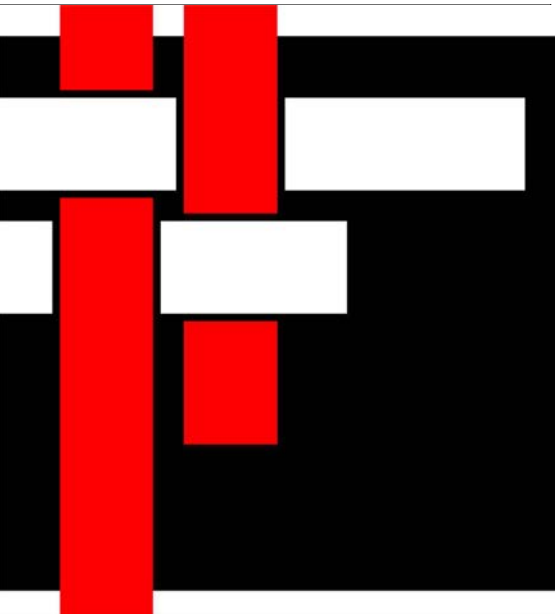
E1.1



MATCH LINE SHEET E1.2
MATCH LINE SHEET E1.3

1
E1.2
ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

GRAPHIC SCALE: 1"=20'
0 5 10 20 40



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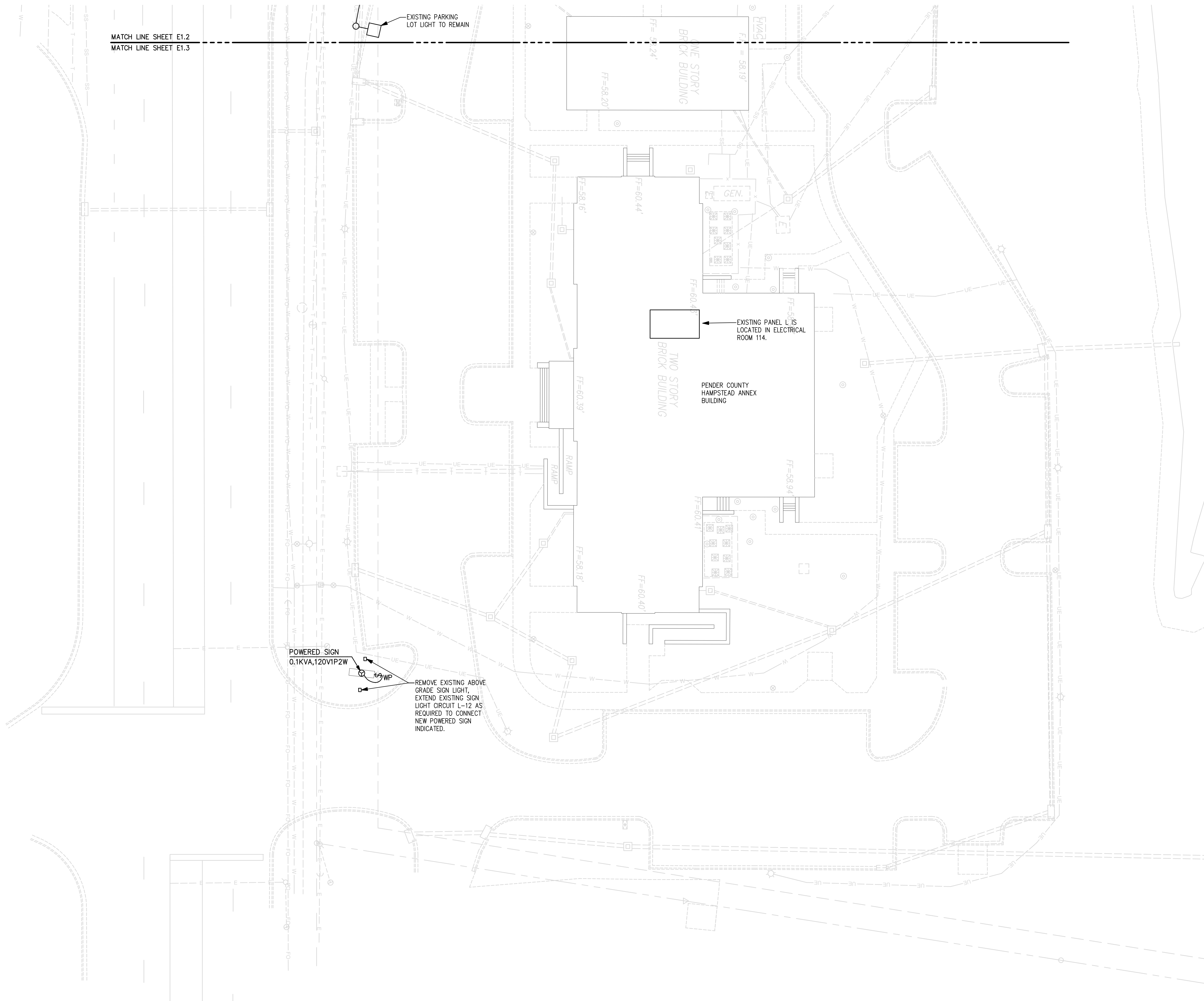
Construction Drawings

Issue Date: July 23, 2025

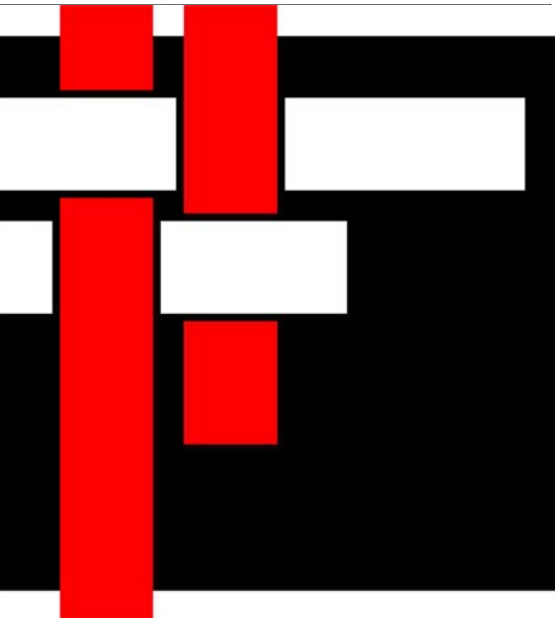
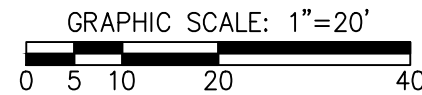
**ELECTRICAL
SITE PLAN**

Rev.	Date	Notes

E1.2



1 ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"



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RD: C-158S

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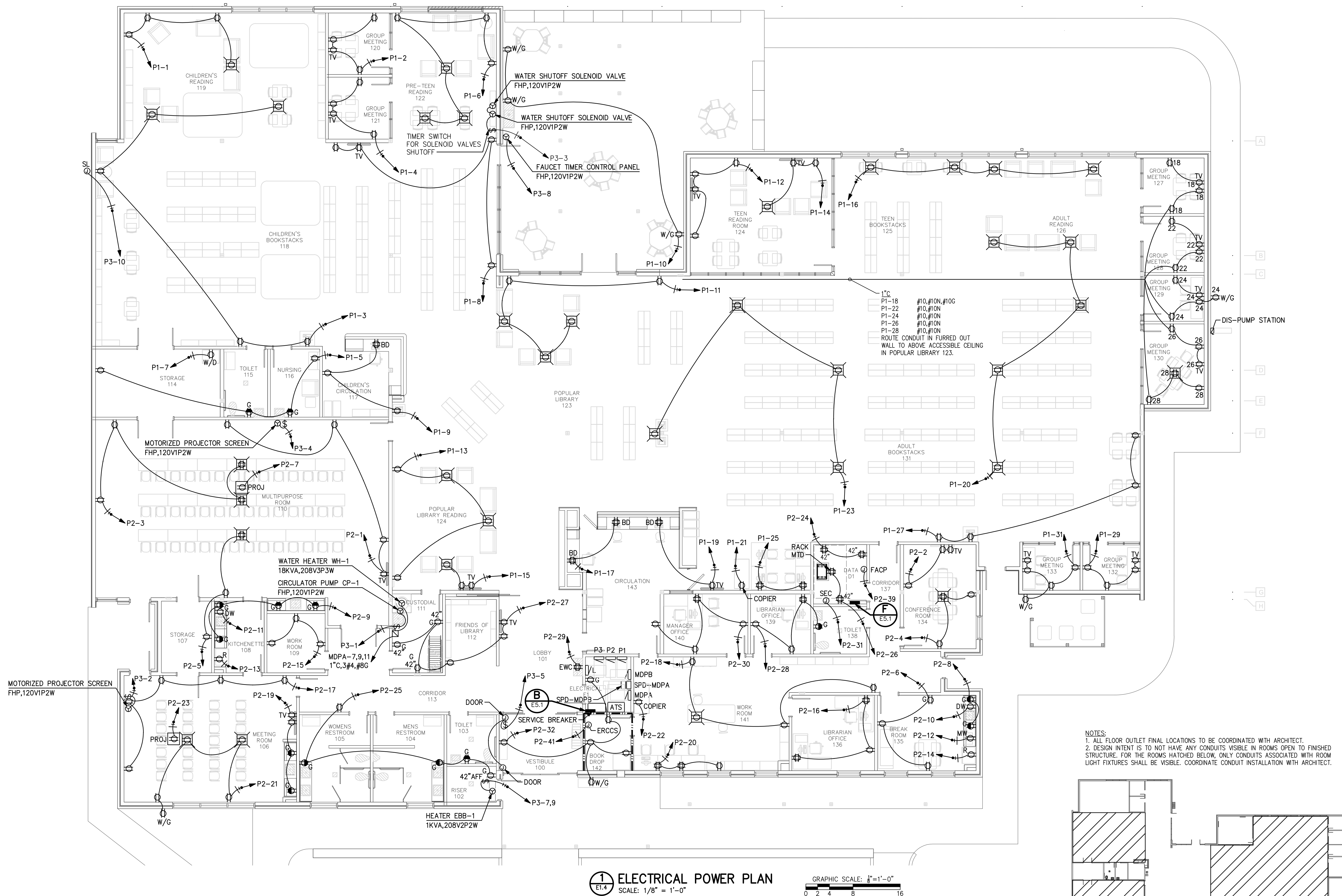
Construction Drawings

Issue Date: July 23, 2025

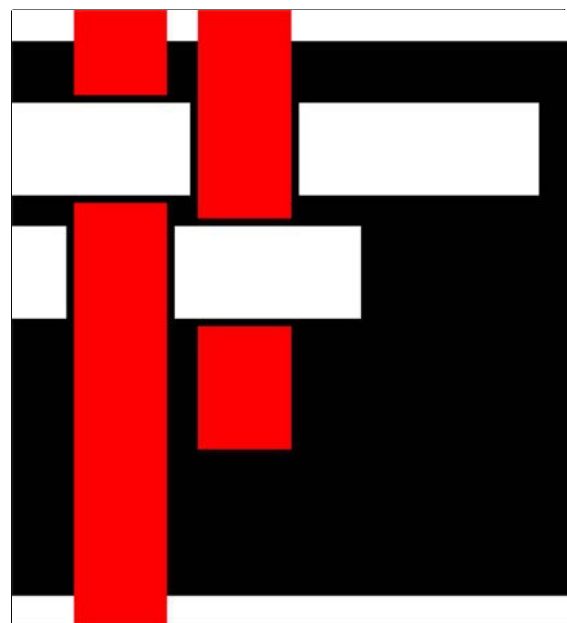
**ELECTRICAL
SITE PLAN**

Rev.	Date	Notes

E1.3



NOTES:
1. ALL FLOOR OUTLET FINAL LOCATIONS TO BE COORDINATED WITH ARCHITECT.
2. DESIGN INTENT IS TO NOT HAVE ANY CONDUITS VISIBLE IN ROOMS OPEN TO FINISHED STRUCTURE. FOR THE ROOMS HATCHED BELOW, ONLY CONDUITS ASSOCIATED WITH ROOM LIGHT FIXTURES SHALL BE VISIBLE. COORDINATE CONDUIT INSTALLATION WITH ARCHITECT.



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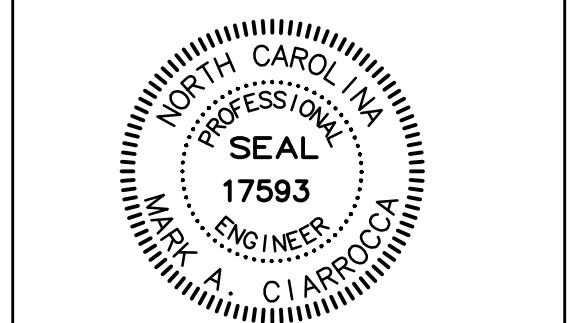
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Fax: (919) 318-7516
LA: C-1585
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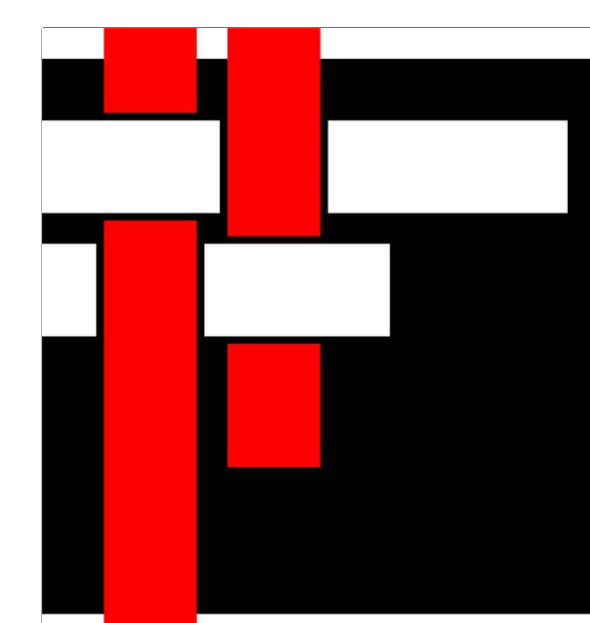
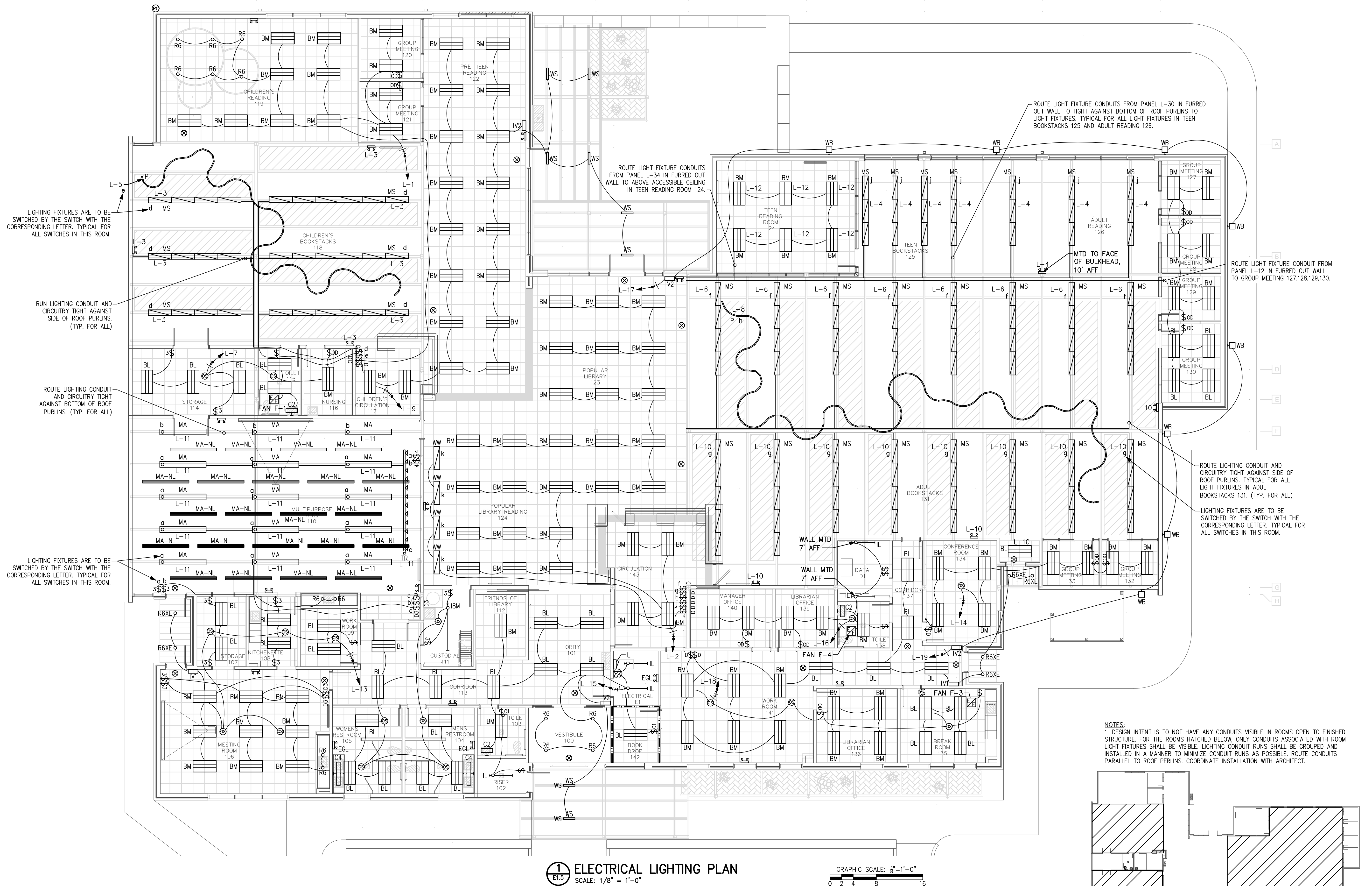
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**ELECTRICAL
POWER PLAN**

Rev.	Date	Notes

E1.4

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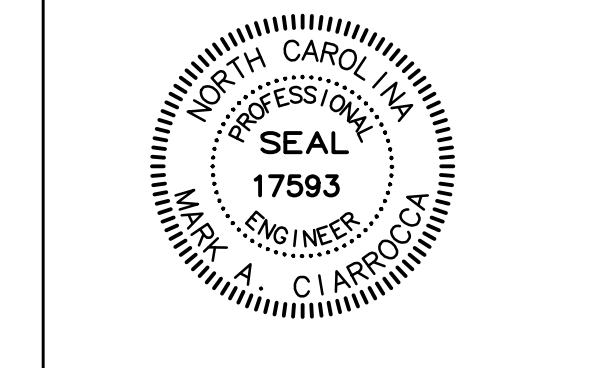
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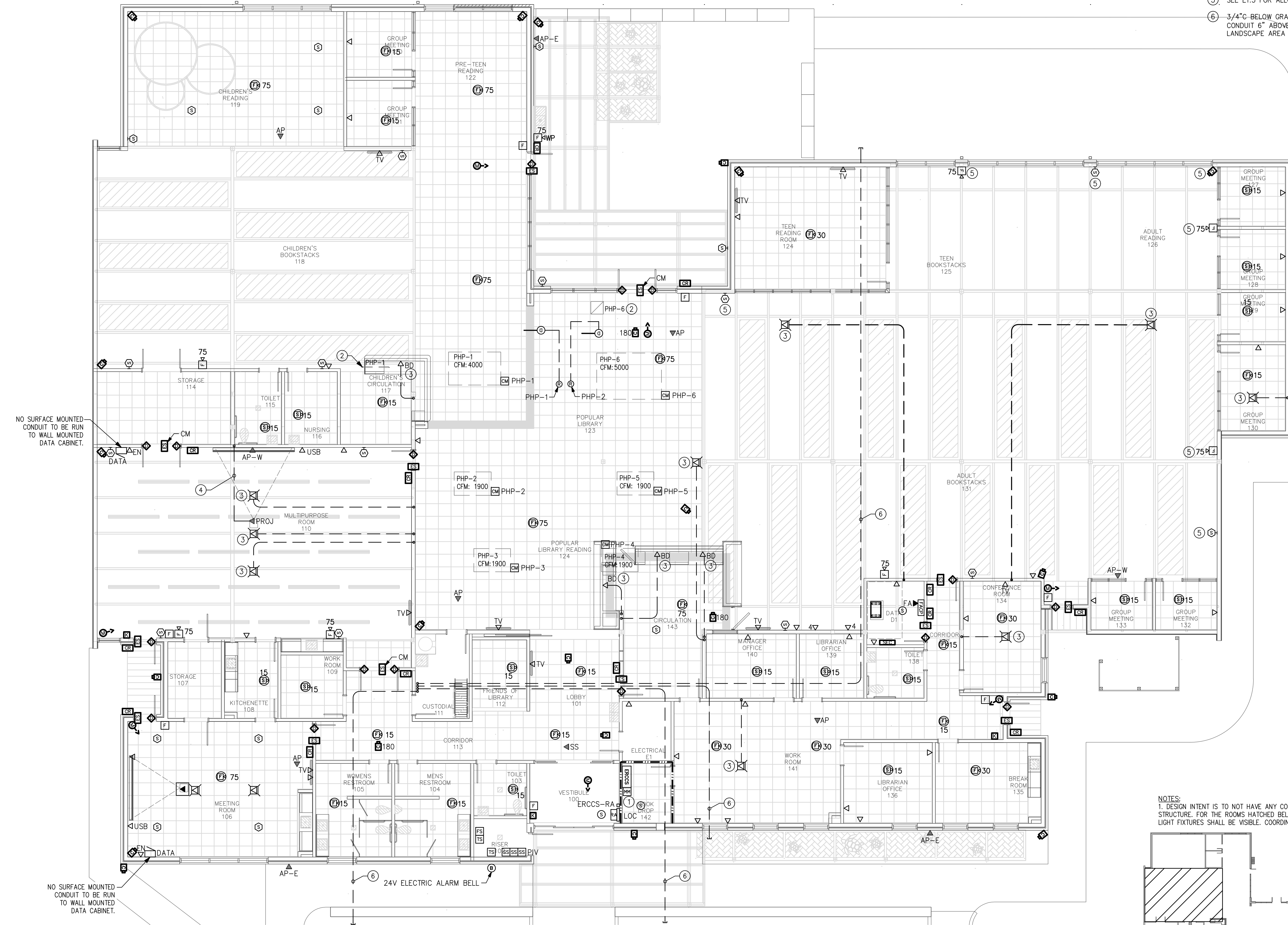
Issue Date: July 23, 2025

**ELECTRICAL
LIGHTING PLAN**

Rev.	Date	Notes

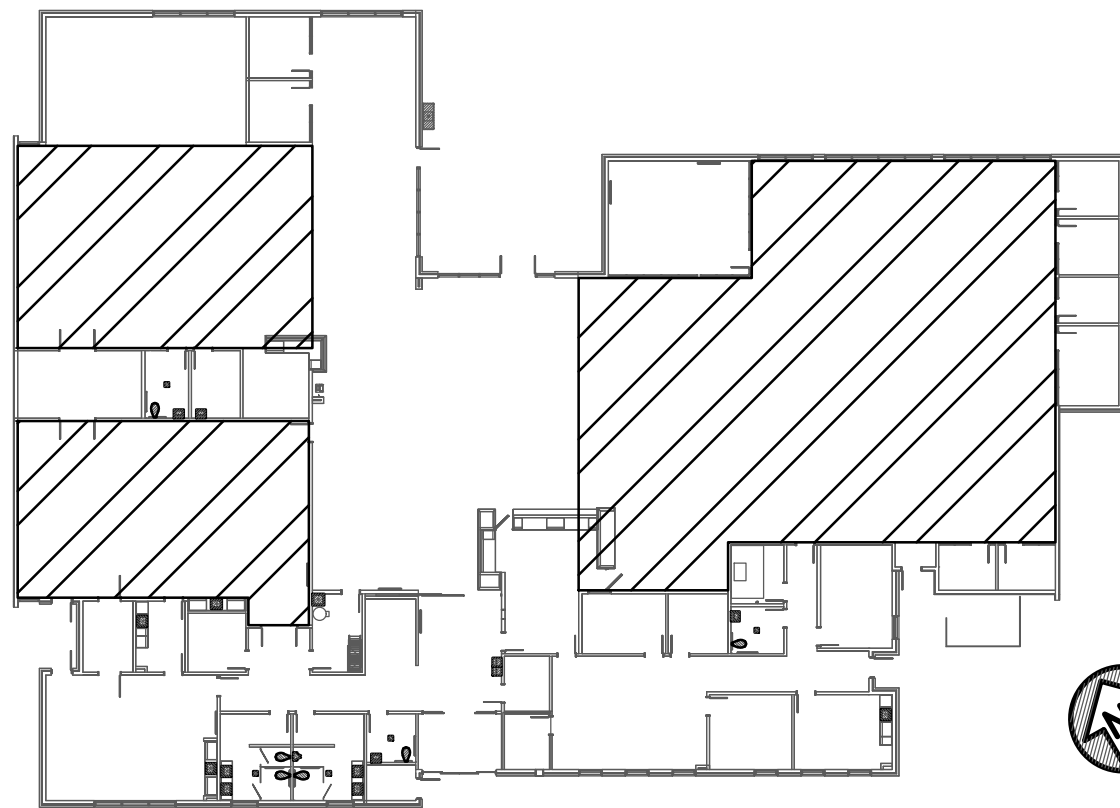
E1.5

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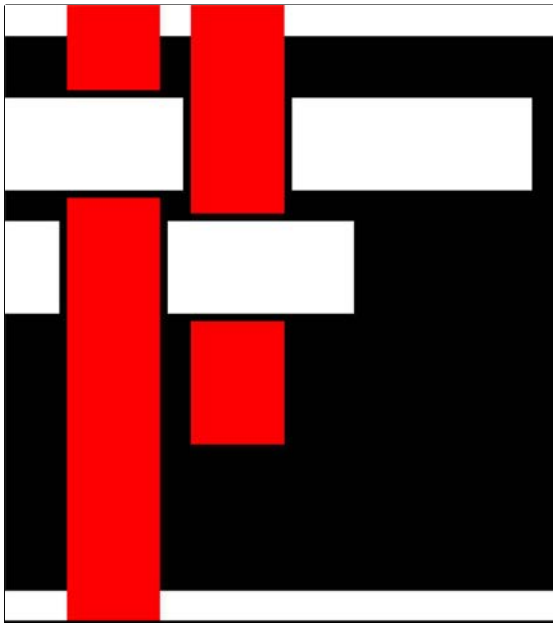
- KEYED NOTES:
- ① (8) MONITOR MODULES FOR EMERGENCY RESPONDER COMMUNICATION COVERAGE SYSTEM
 - ② RETURN GRILLE INDICATED IS THE NEAREST GRILLE TO UNIT DUCT DETECTOR.
 - ③ ROUTE CONDUIT BELOW GRADE TO STUB UP INDICATED.
 - ④ ROUTE PROJECTOR CONDUIT TIGHT AGAINST BOTTOM OF ROOF PURLINS.
 - ⑤ SEE E1.5 FOR ALLOWABLE RACEWAY PATHS AT CEILING.
 - ⑥ 3/4" BELOW GRADE FOR LANDSCAPE SPRINKLER VALVE CONTROL. STUB CONDUIT 6" ABOVE GRADE IN CUSTODIAL ROOM 111. STUB CONDUIT TO EXTERIOR LANDSCAPE AREA INDICATED, CAP CONDUIT END BELOW GRADE.

NOTES:
1. DESIGN INTENT IS TO NOT HAVE ANY CONDUITS VISIBLE IN ROOMS OPEN TO FINISHED STRUCTURE. FOR THE ROOMS HATCHED BELOW, ONLY CONDUITS ASSOCIATED WITH ROOM LIGHT FIXTURES SHALL BE VISIBLE. COORDINATE CONDUIT INSTALLATION WITH ARCHITECT.



1 ELECTRICAL AUXILIARY SYSTEMS PLAN
E1.6
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8" = 1'-0"
0 2 4 8 16



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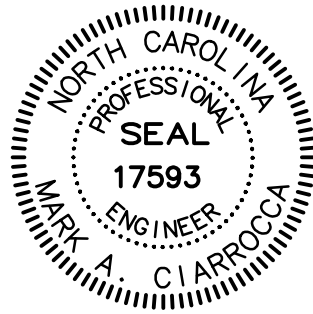
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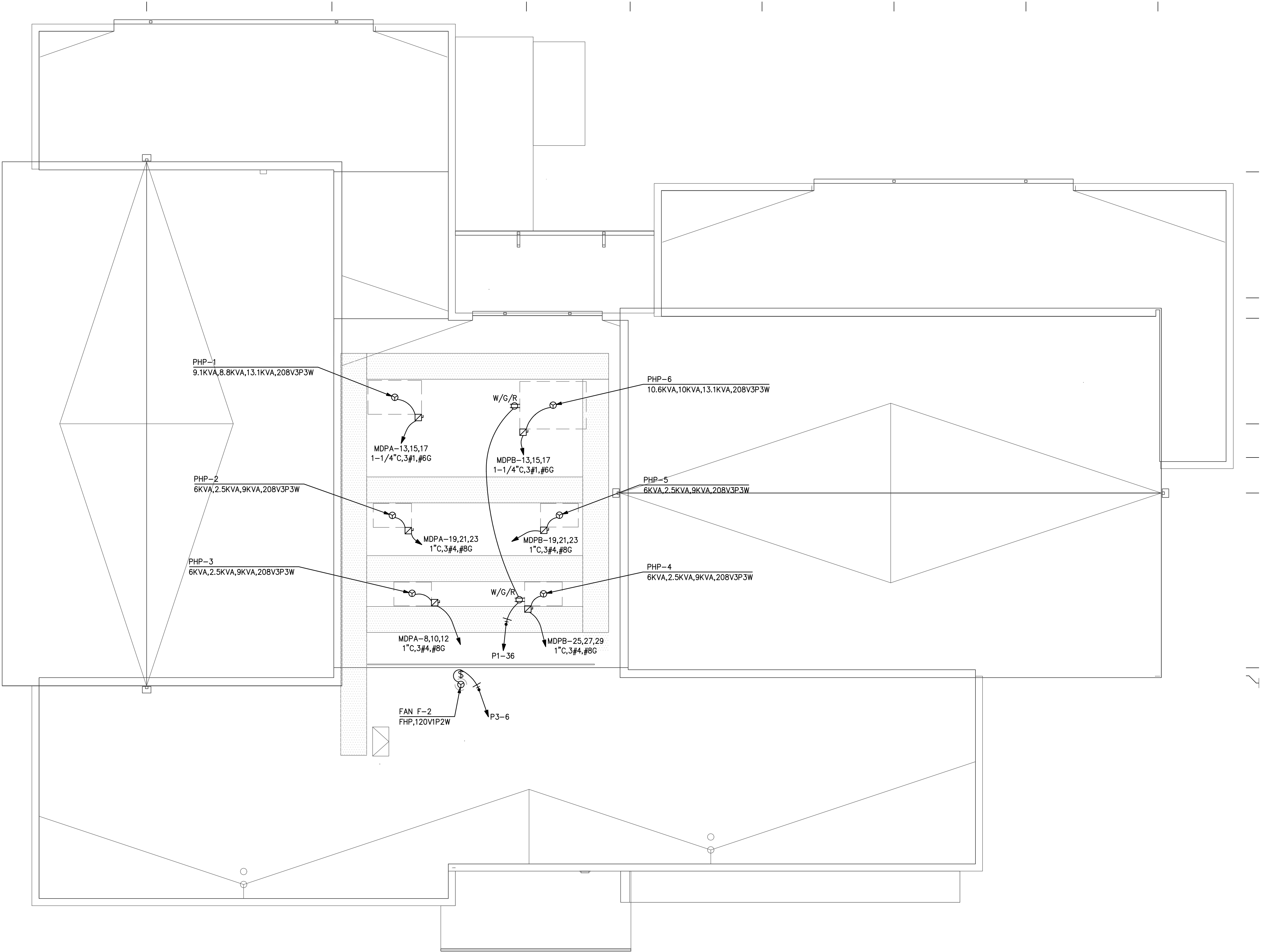
Construction Drawings

Issue Date: July 23, 2025

**ELECTRICAL
AUXILIARY
SYSTEMS PLAN**

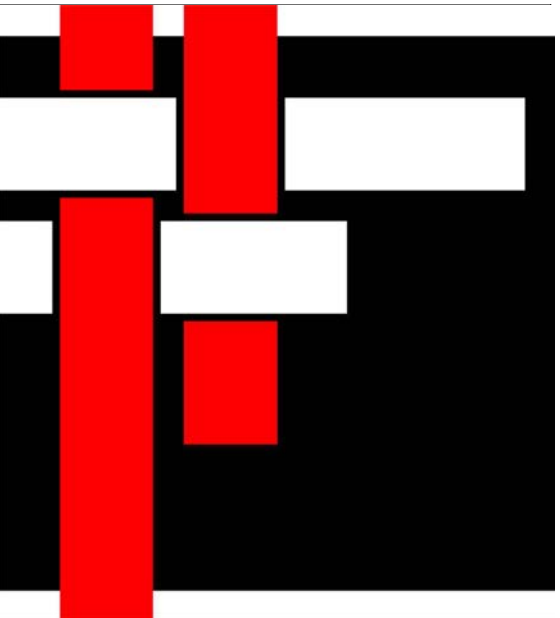
Rev.	Date	Notes

E1.6



1 ELECTRICAL ROOF PLAN
E1.7
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8" = 1'-0"
0 2 4 8 16



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LA: C-1558
RD: C-1558

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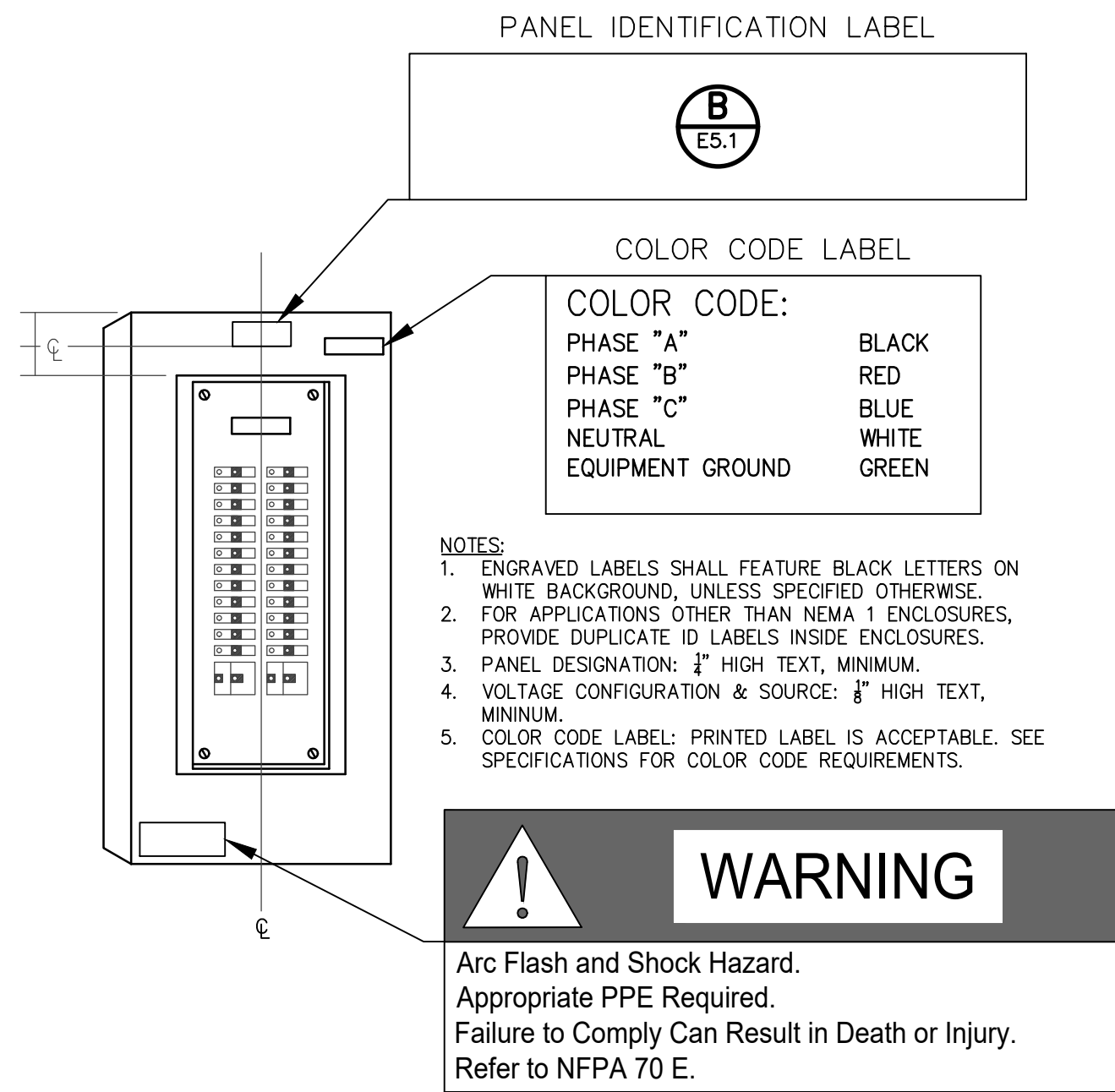
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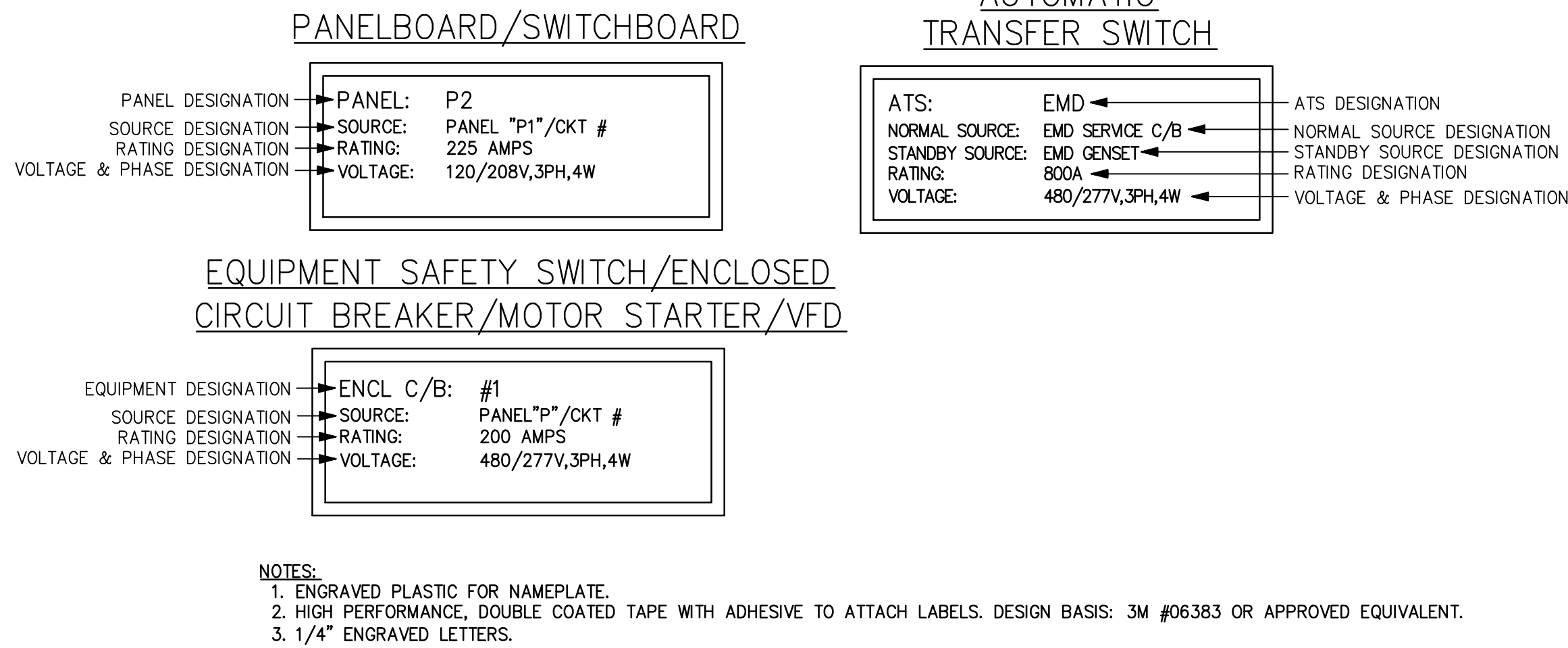
**ELECTRICAL
ROOF PLAN**

Rev.	Date	Notes

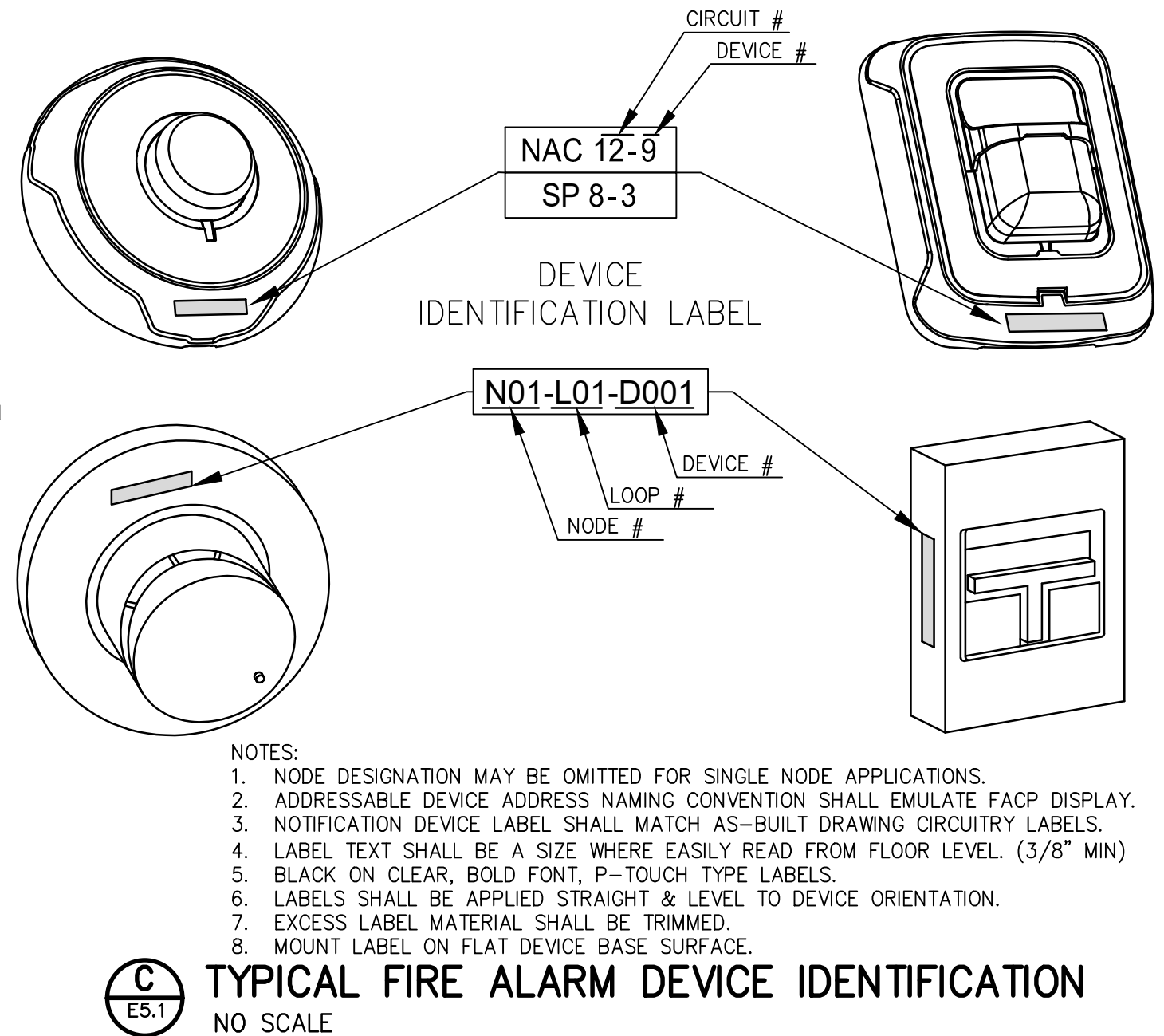
E1.7



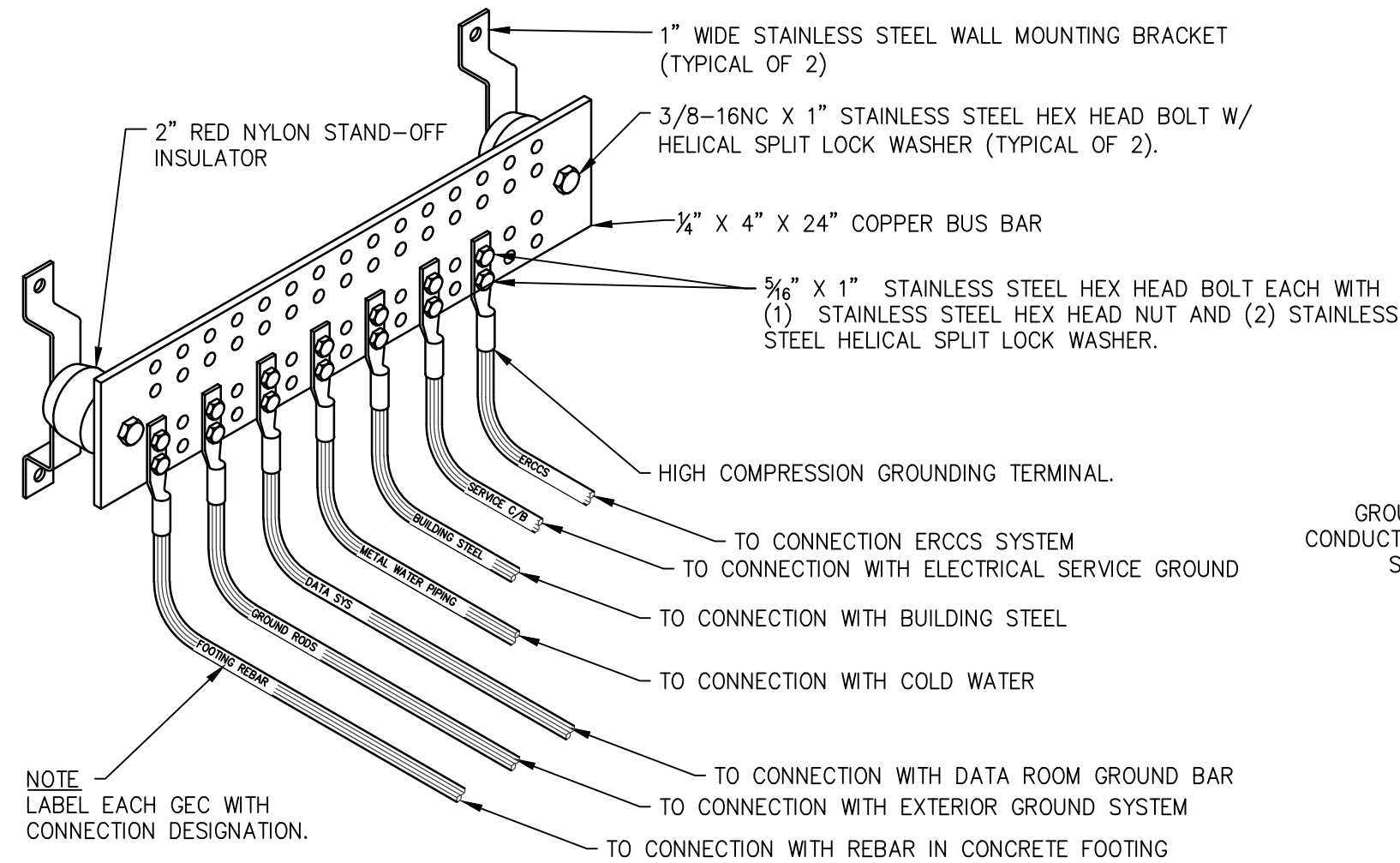
A TYPICAL PANELBOARD IDENTIFICATION
NO SCALE



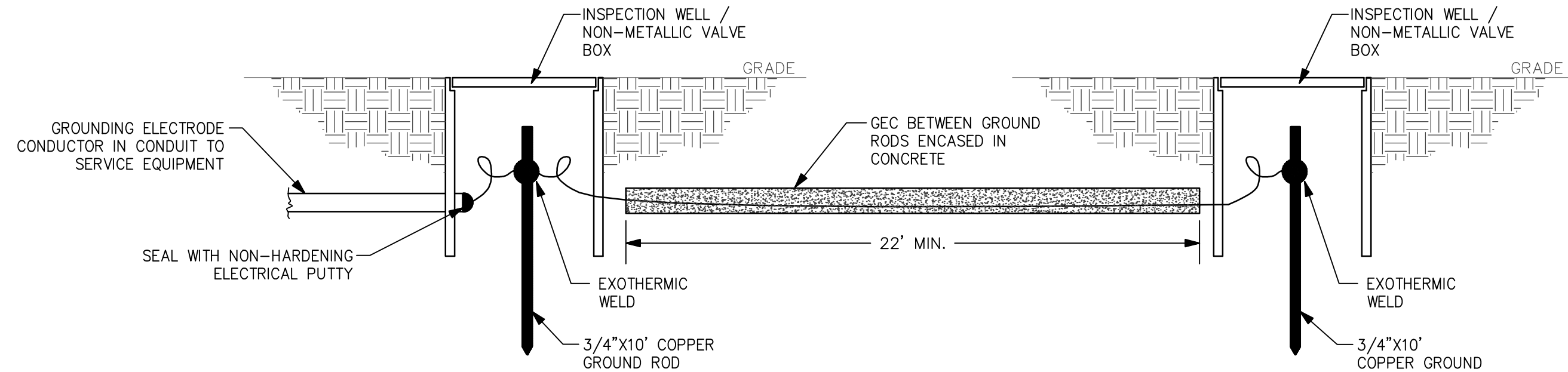
B TYPICAL NAMEPLATE DETAILS
NO SCALE



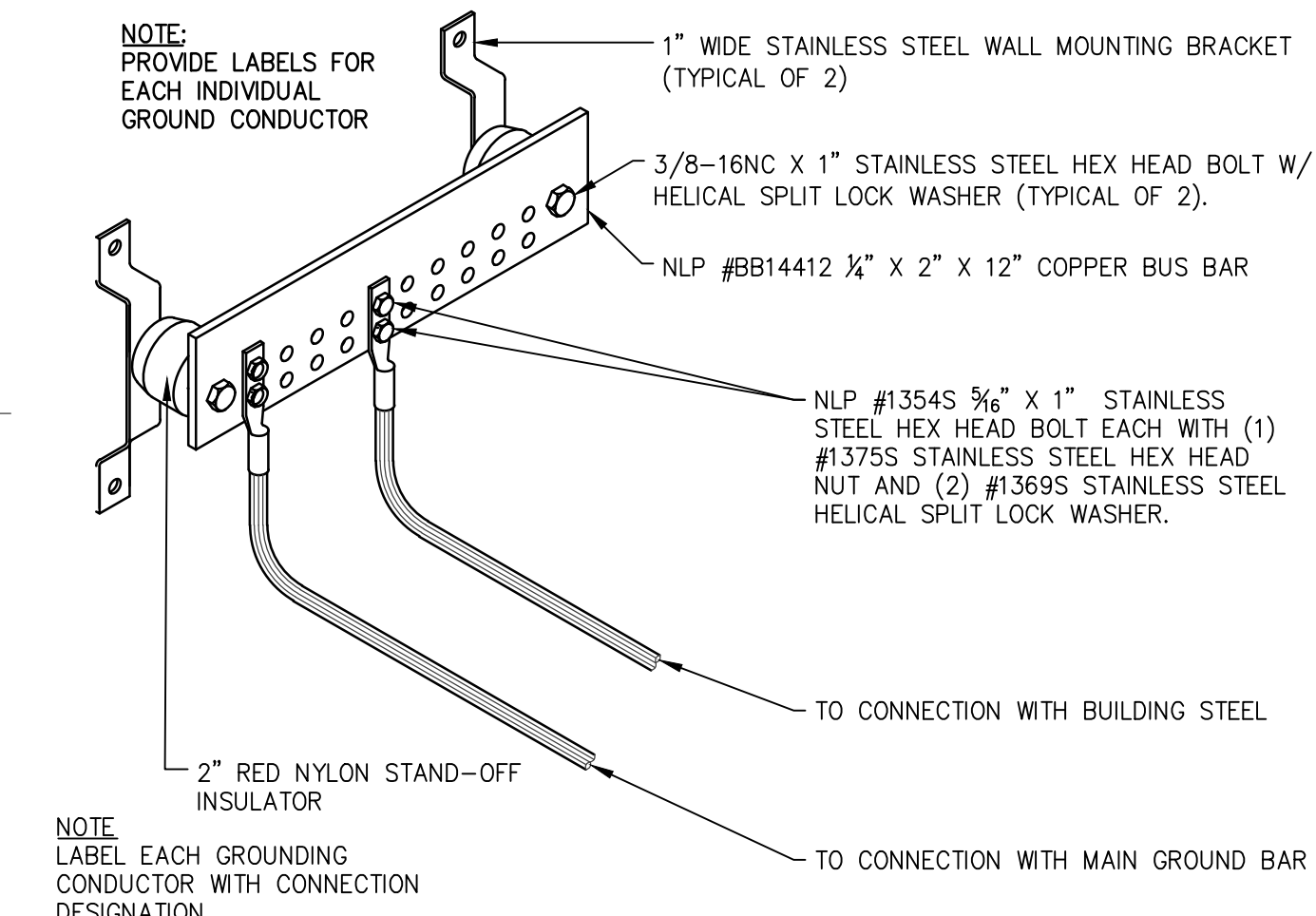
C TYPICAL FIRE ALARM DEVICE IDENTIFICATION
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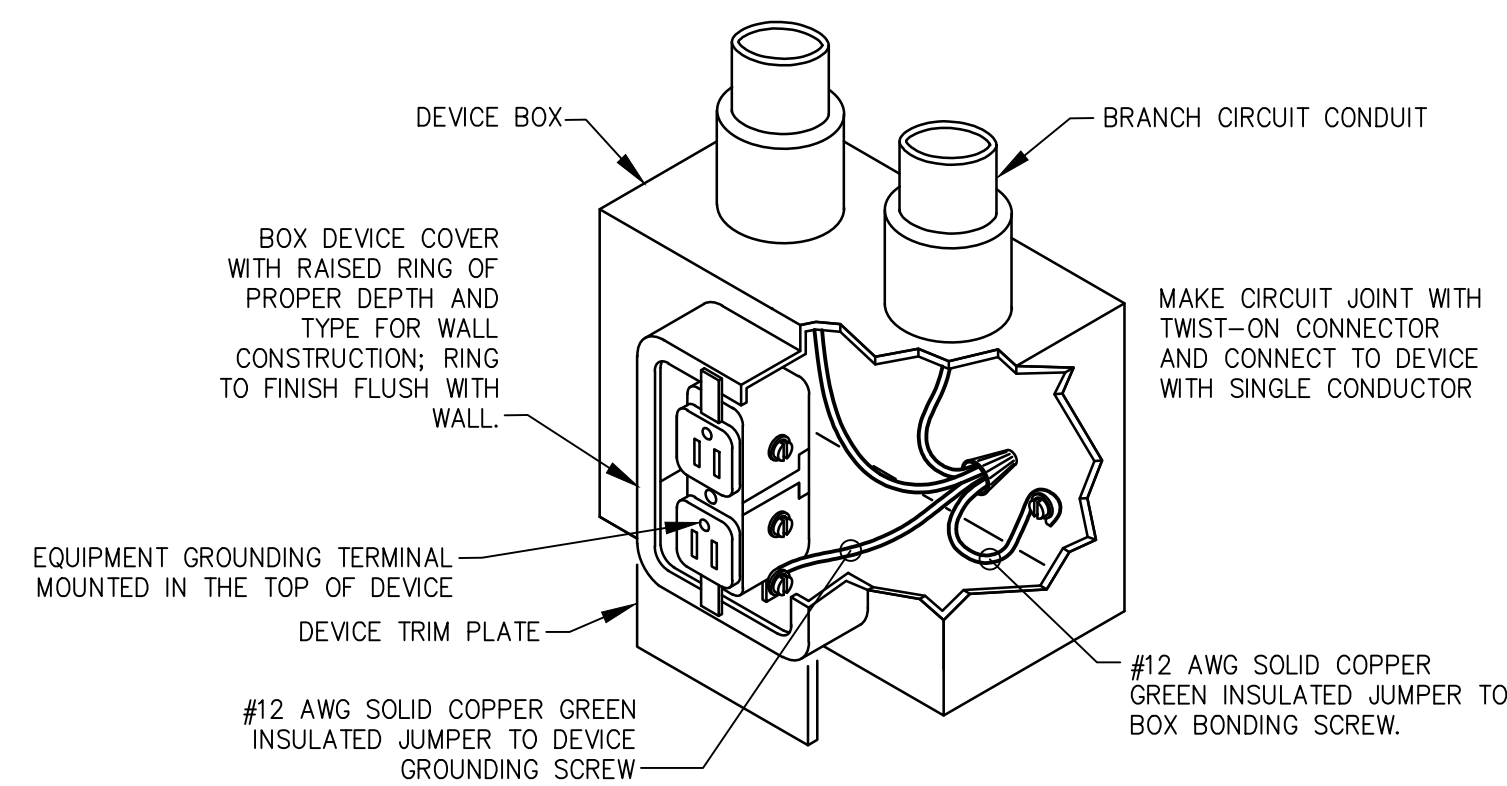
D MAIN GROUND BAR
NO SCALE



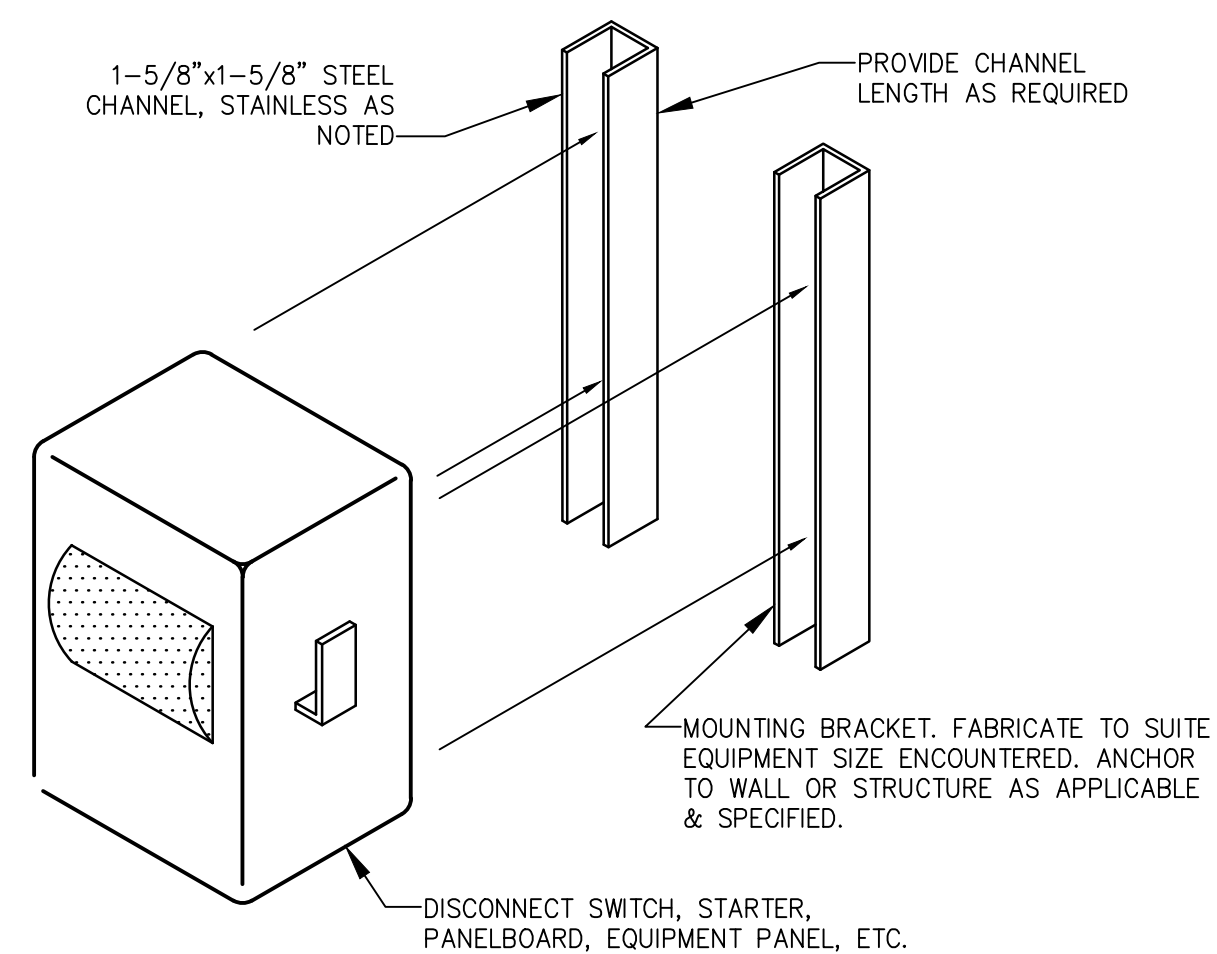
E GROUND ROD & INSPECTION WELL
NO SCALE



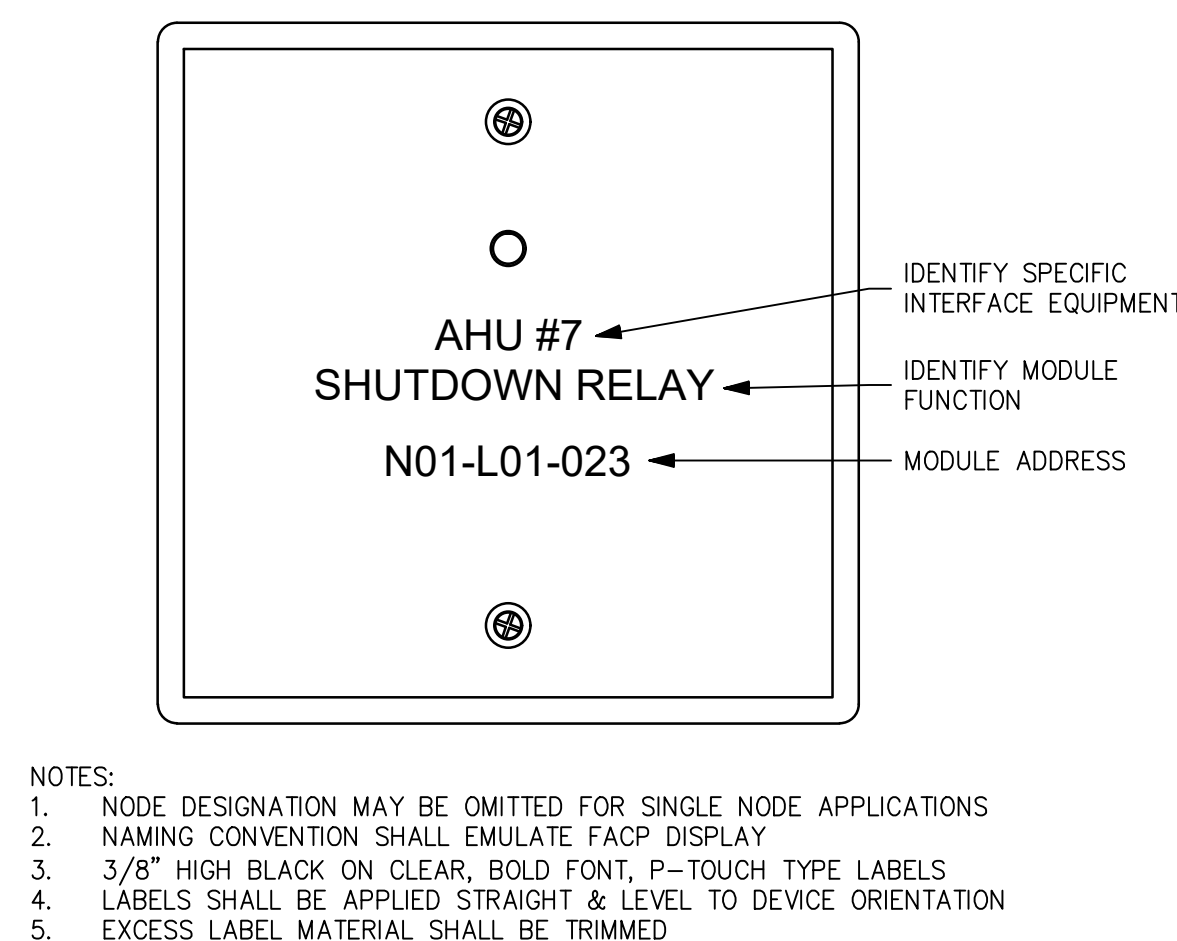
F DATA ROOM GROUND BAR
NO SCALE



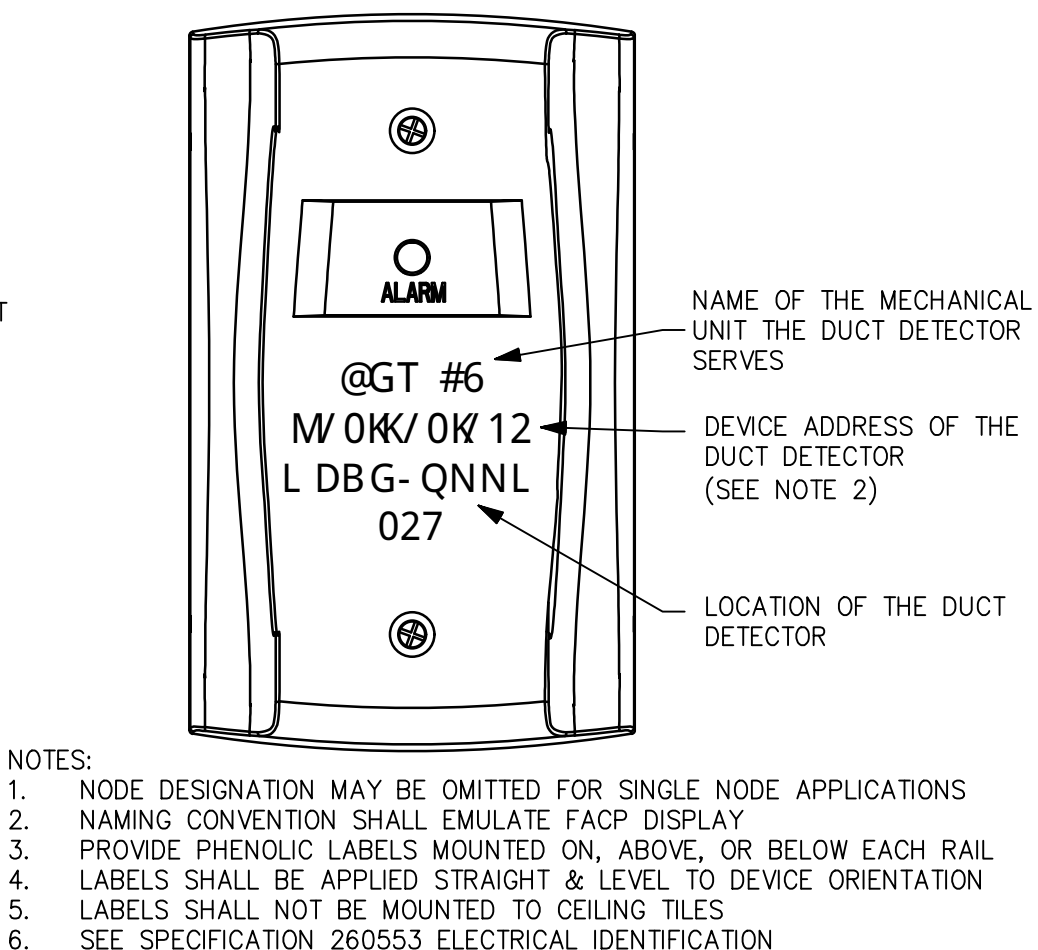
G OUTLET GROUNDING DETAIL
SCALE: N/A



H EQUIPMENT MOUNTING DETAIL
NO SCALE



I CONTROL/RELAY MODULE LABELING DETAIL
NO SCALE



J REMOTE ALARM INDICATING LAMP LABELING DETAIL
NO SCALE

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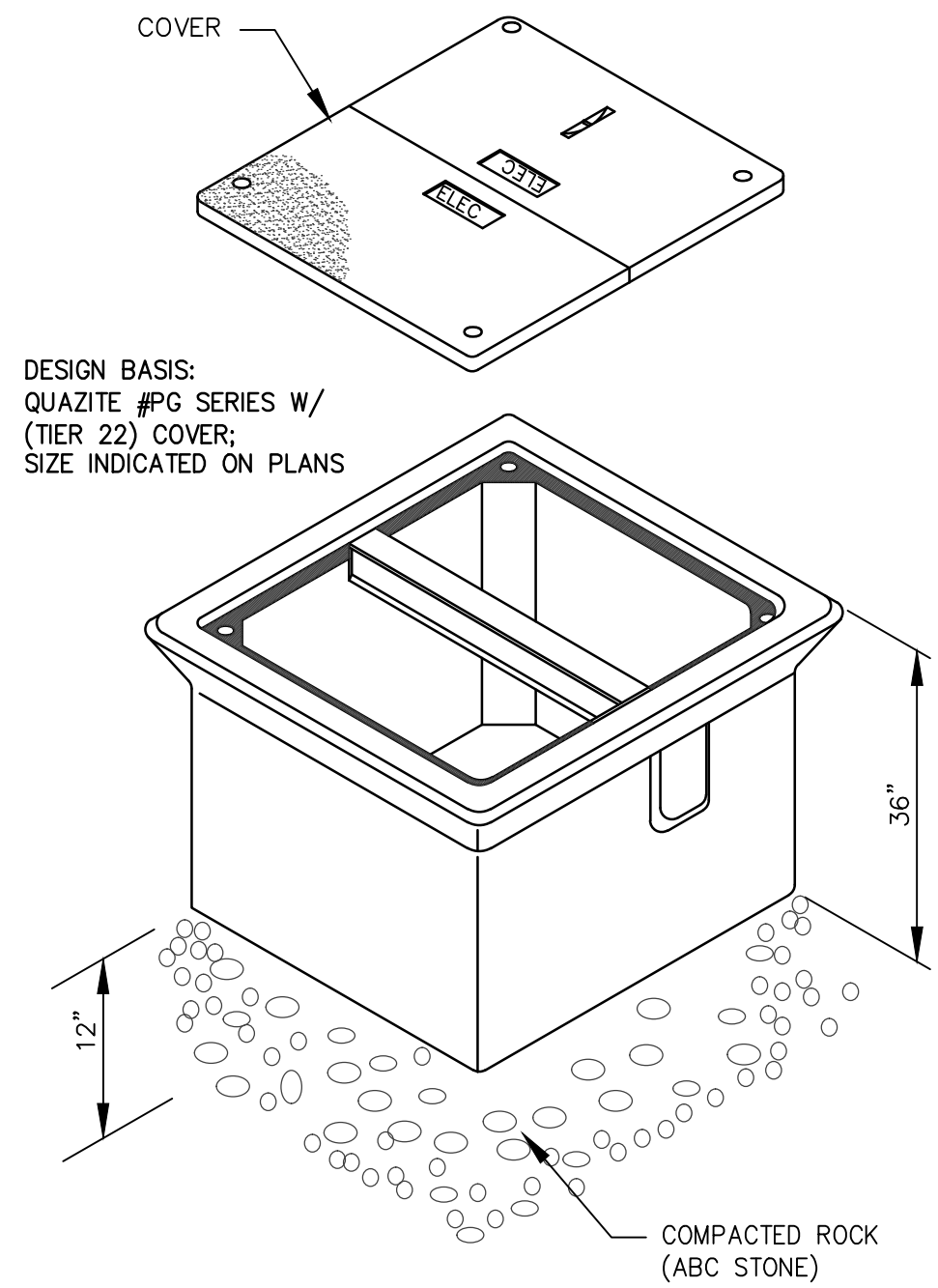
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ELECTRICAL DETAILS

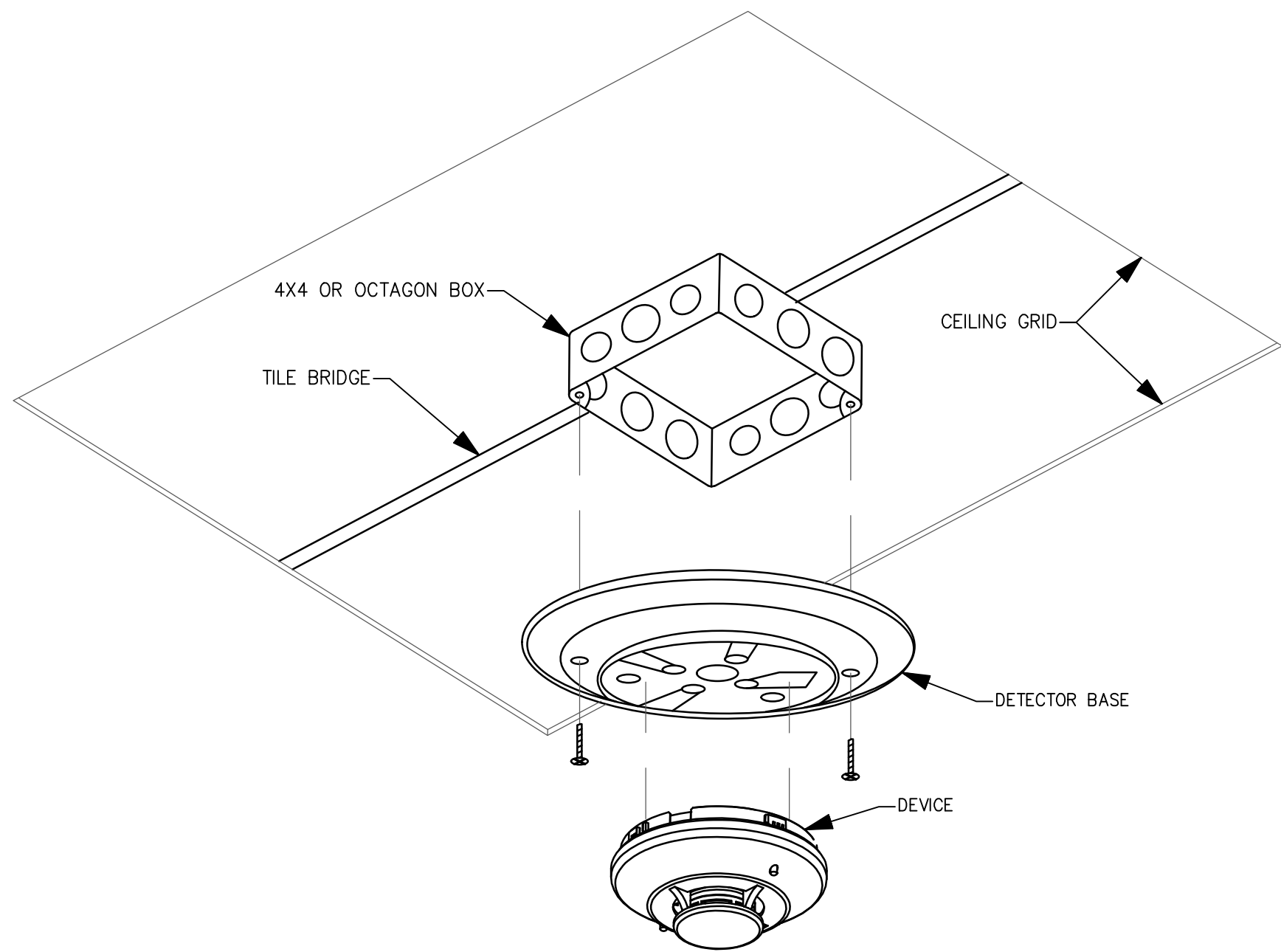
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E5.1

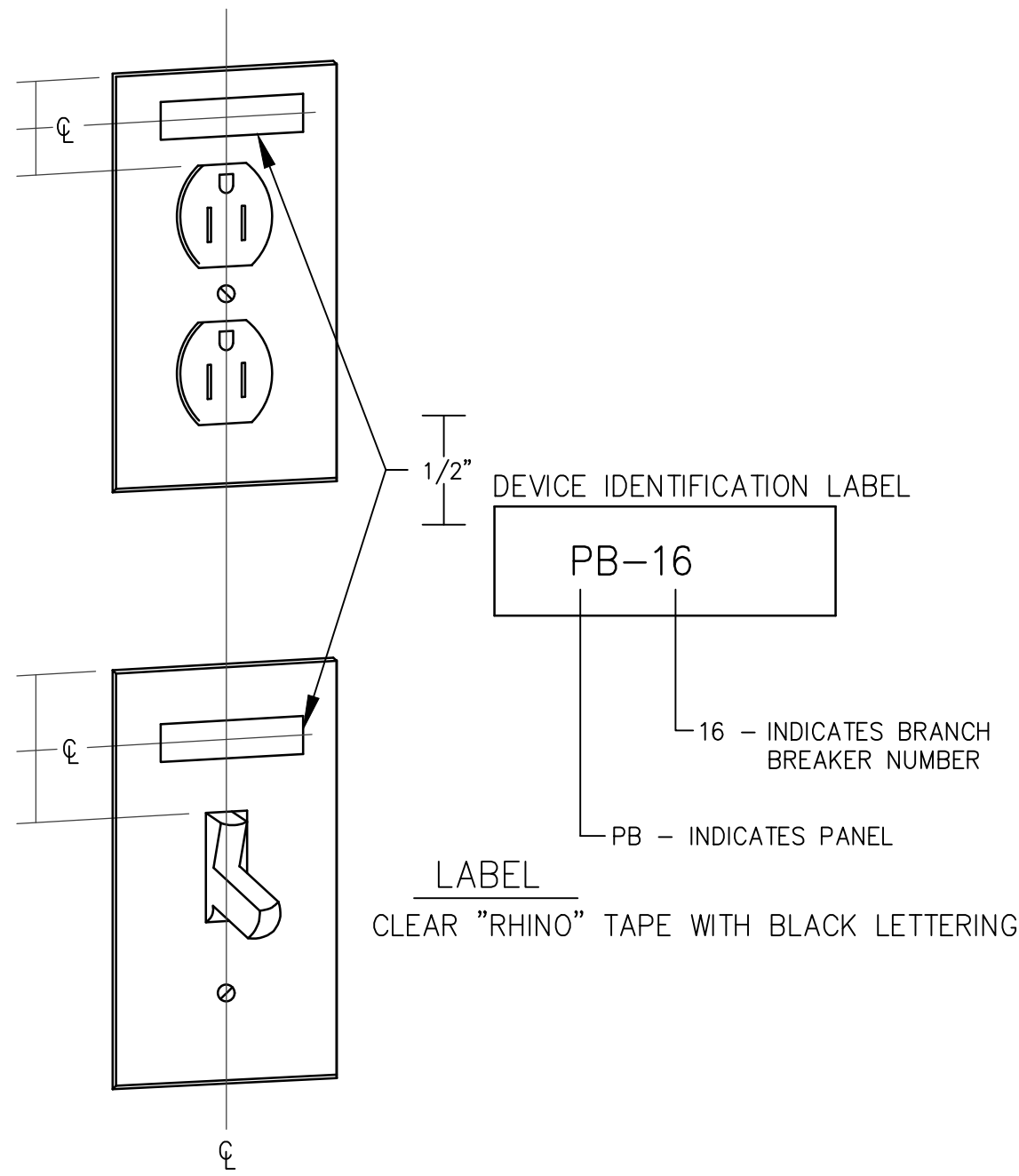
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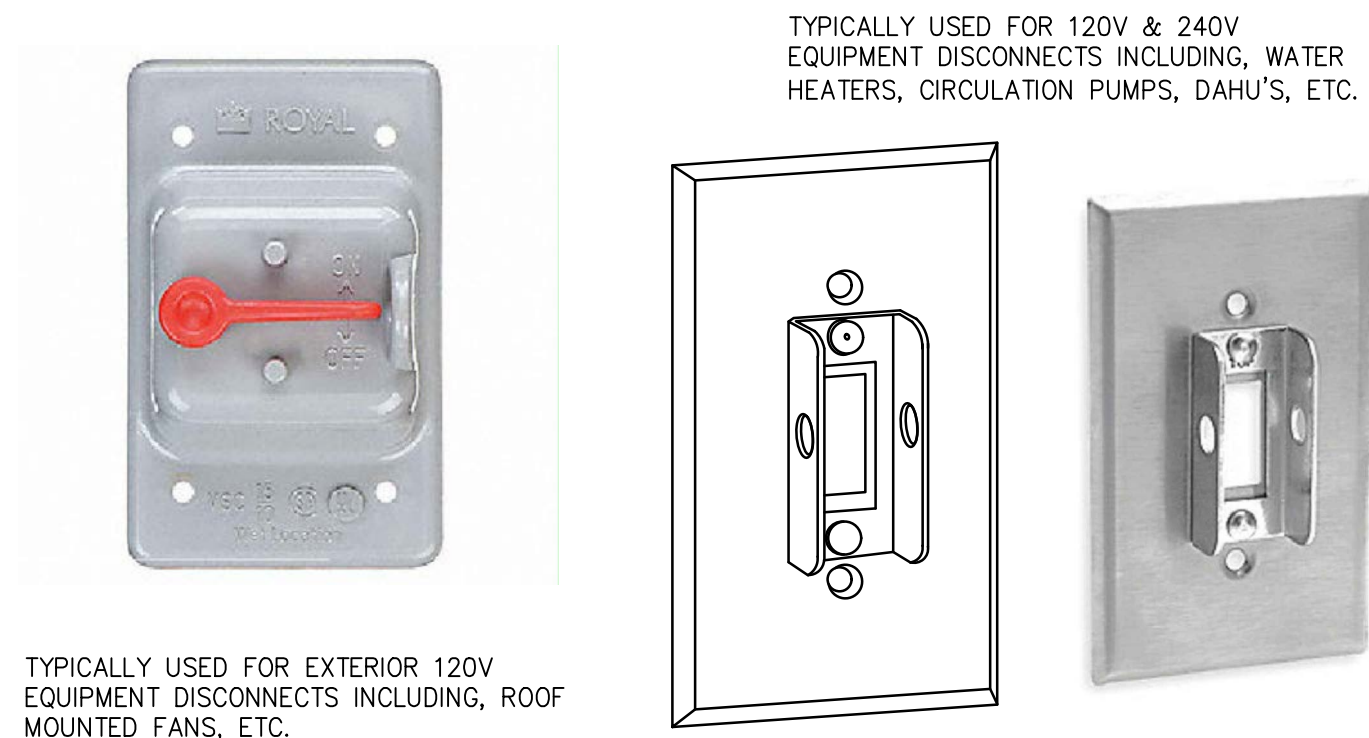
A TYPICAL HANDHOLE DETAIL
NO SCALE



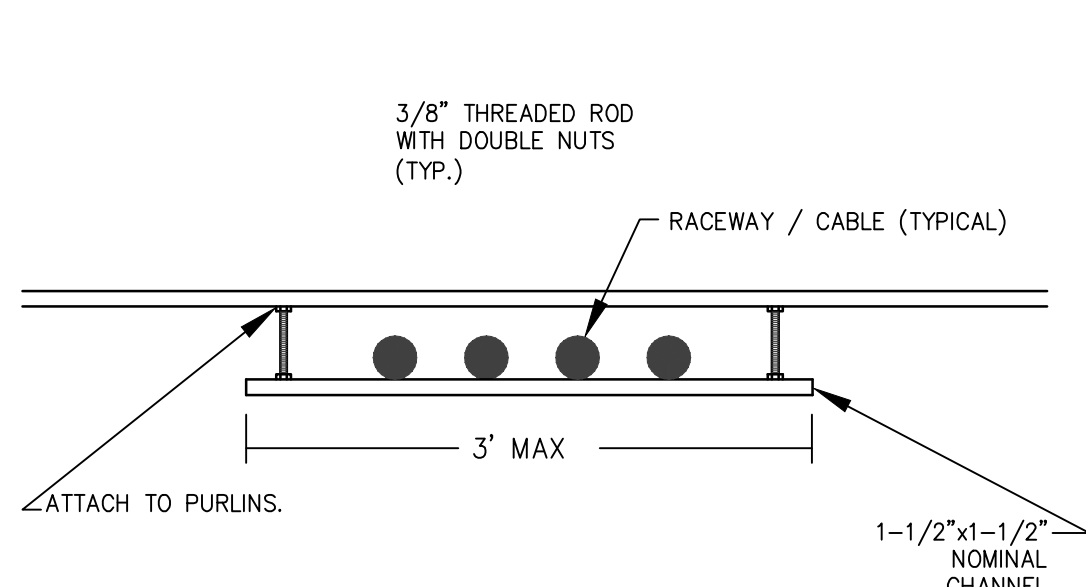
B DEVICE MOUNTING DETAIL
NO SCALE



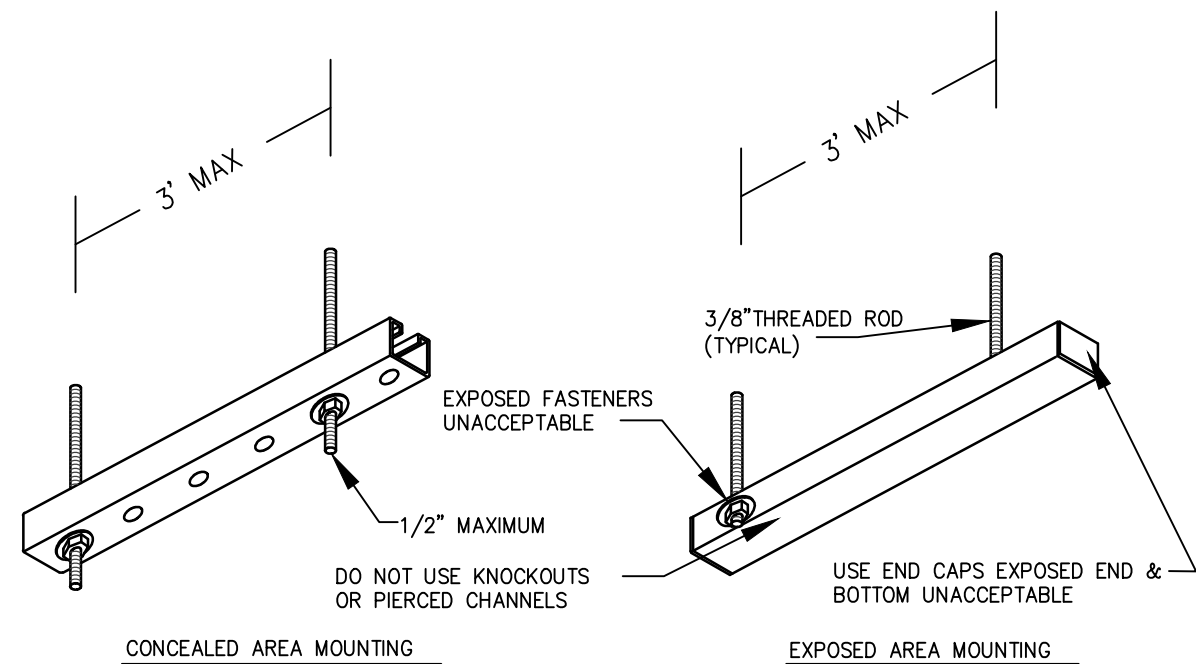
C WIRING DEVICE IDENTIFICATION LABEL
NO SCALE



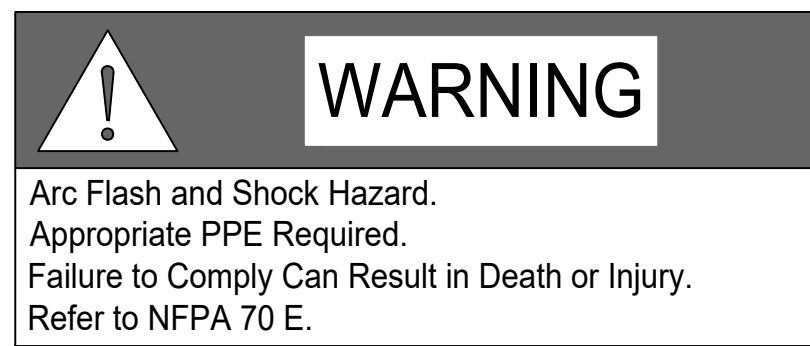
D LOCKABLE TOGGLE SWITCH COVER
NO SCALE



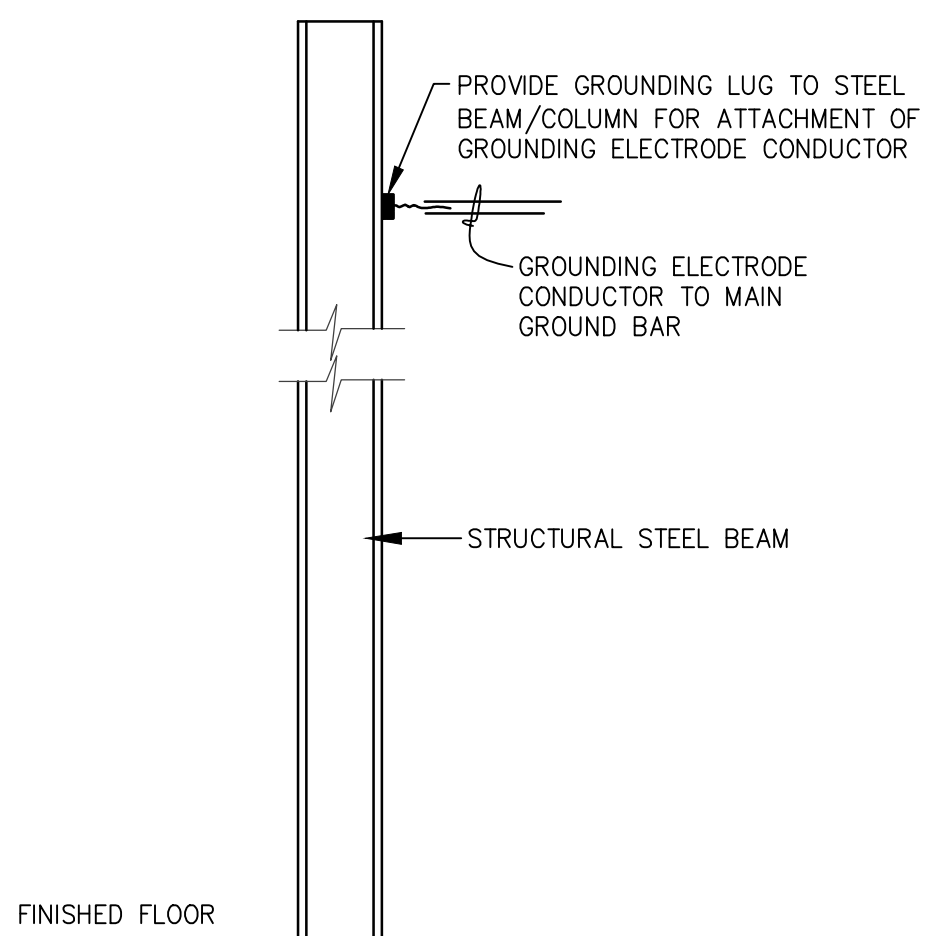
E CHANNEL SUPPORT DETAIL
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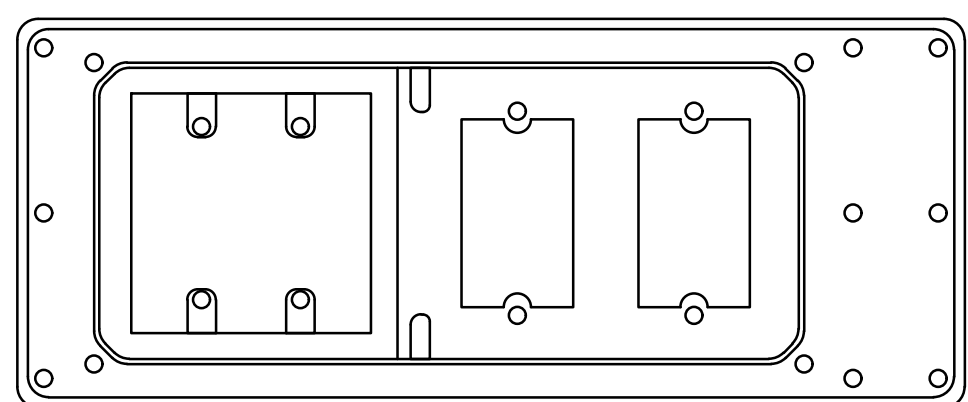
F CHANNEL MOUNTING DETAILS
NO SCALE



G GENERIC ARC FLASH LABEL FOR ALL ELECTRICAL EQUIPMENT
NO SCALE

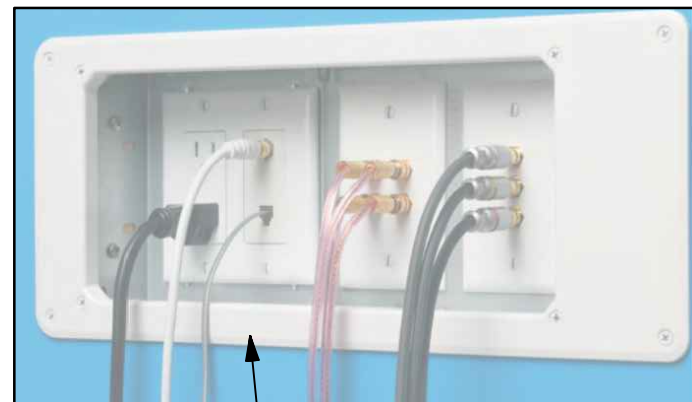


H STEEL COLUMN GROUNDING DETAIL
NO SCALE

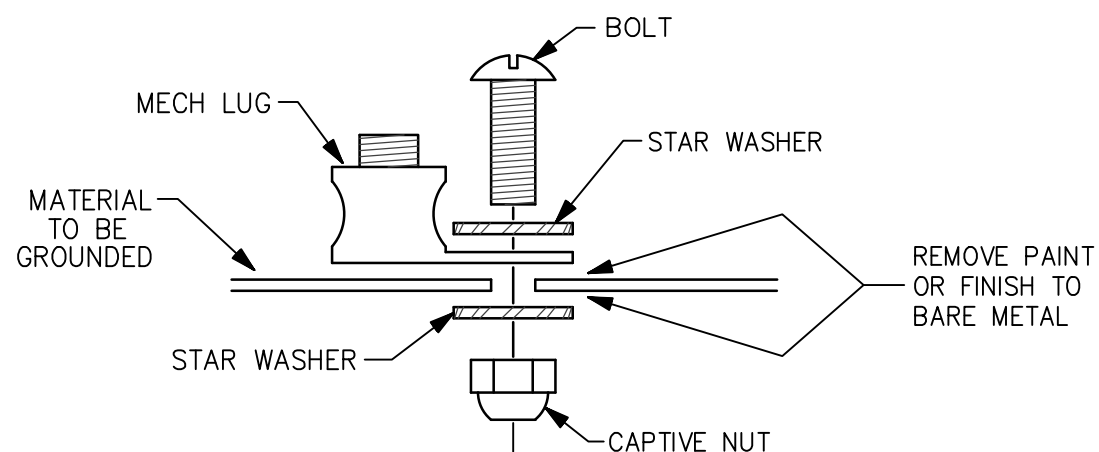


DESIGN BASIS: ARLINGTON TVBS613
APPROVED EQUIVALENTS BY ALTERNATE MANUFACTURERS ARE ACCEPTABLE.

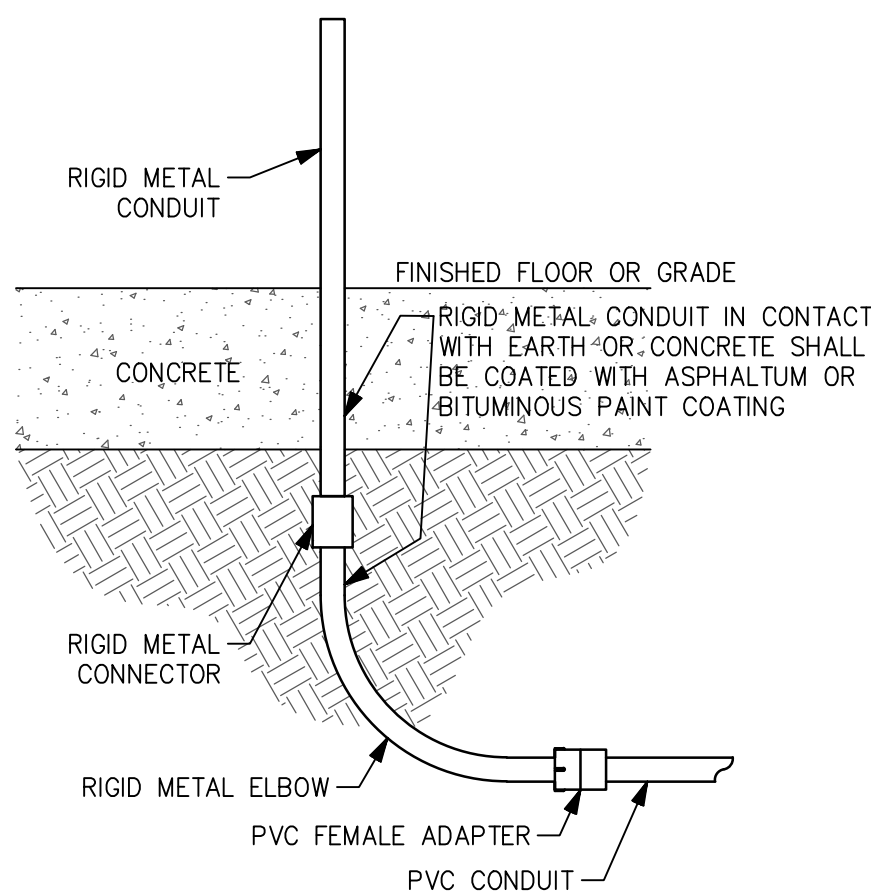
I TV MONITOR OUTLET BOX DETAIL
NO SCALE



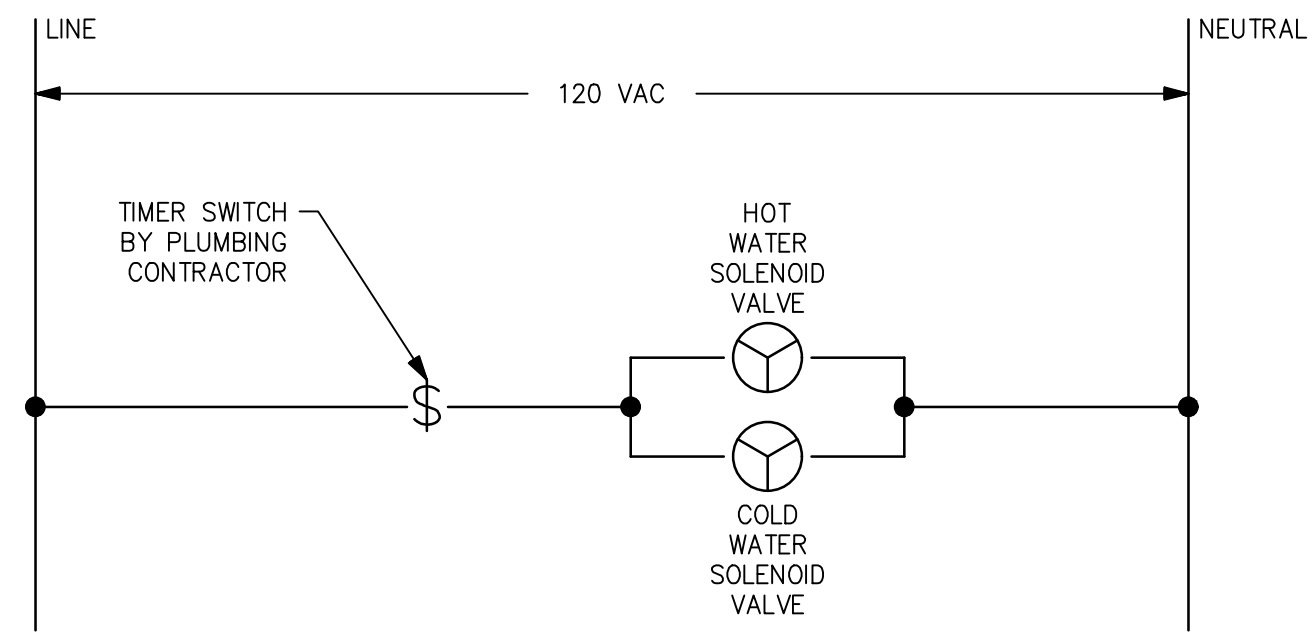
PAINT EXPOSED METAL OF THE BOX TO MATCH THE WALL FINISH. PAINT PRIOR TO INSTALLATION OF CABLES, OUTLETS, AND FACEPLATES.



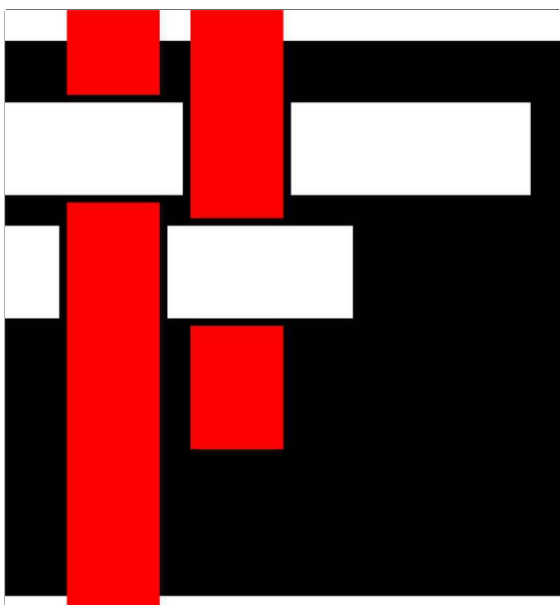
J GROUNDING LUG DETAIL
NO SCALE



K CONDUIT STUB-UP
NO SCALE



L SOLENOID VALVE CONTROL SCHEMATIC
NO SCALE



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SHERWOOD
& ASSOCIATE
ARCHITECTURE**

124 Market Street
Wilmington, NC 28401
910 762-0892
s2a3.com

CLH DESIGN, P.A.
4011 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 518-5716
Fax: (919) 518-7516
LA: C-1585
RE: C-1585

CHEATHAM AND ASSOCIATES, P.A.
CONSULTING ENGINEERS
3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
FAX: (910) 452-4211
OFFICE@CHEATHAMPA.COM
WWW.CHEATHAMPA.COM
NC LICENSE# C-1073

WOODS ENGINEERING
Consulting Structural Engineers
254 North Front Street
Suite 201
Wilmington, NC 28401
Phone: 910.343.8007
Fax: 910.343.8088
www.woodseng.com

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17593
ENGINEER
MARK A. CIARROCCA
NORTH CAROLINA**
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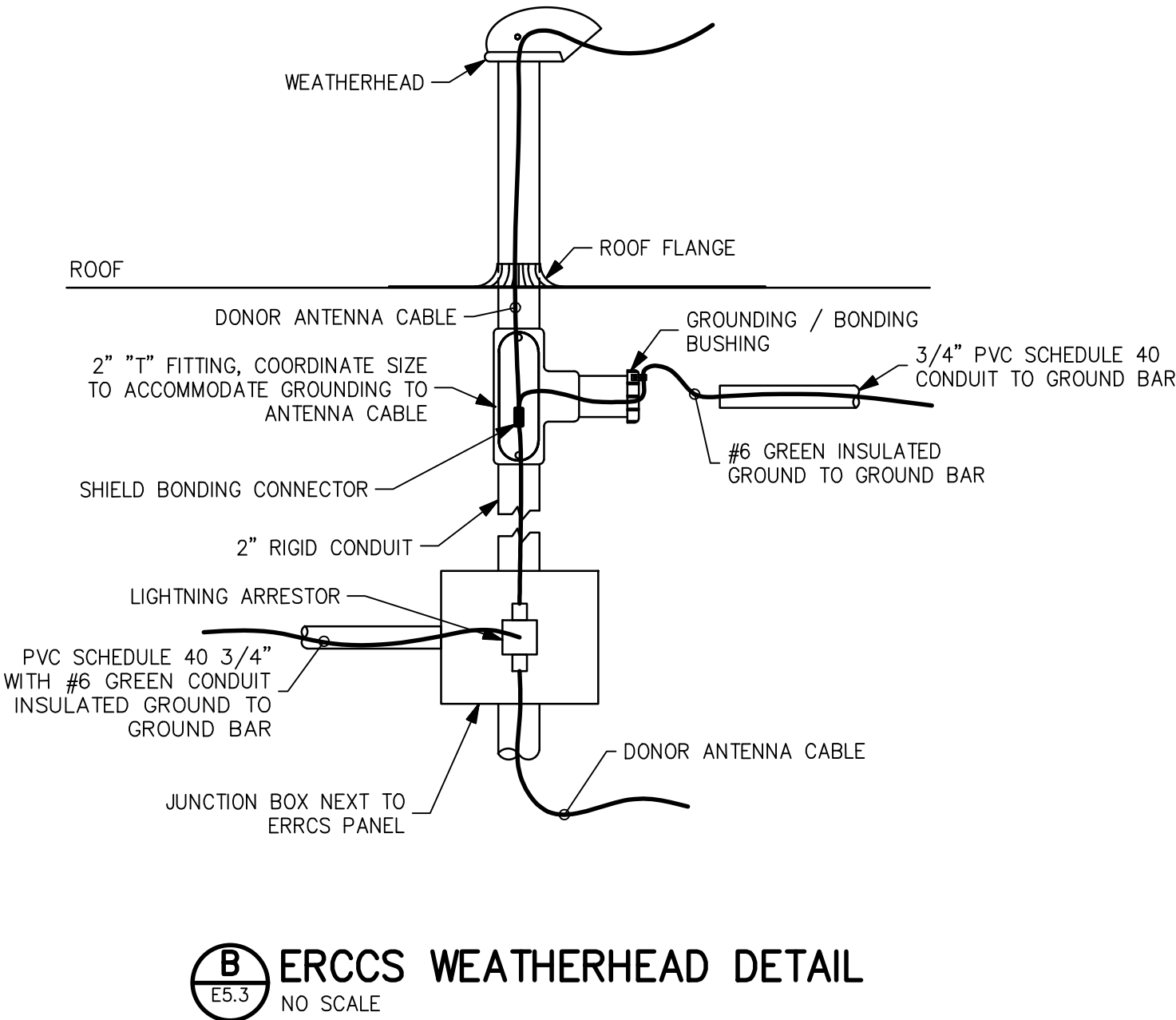
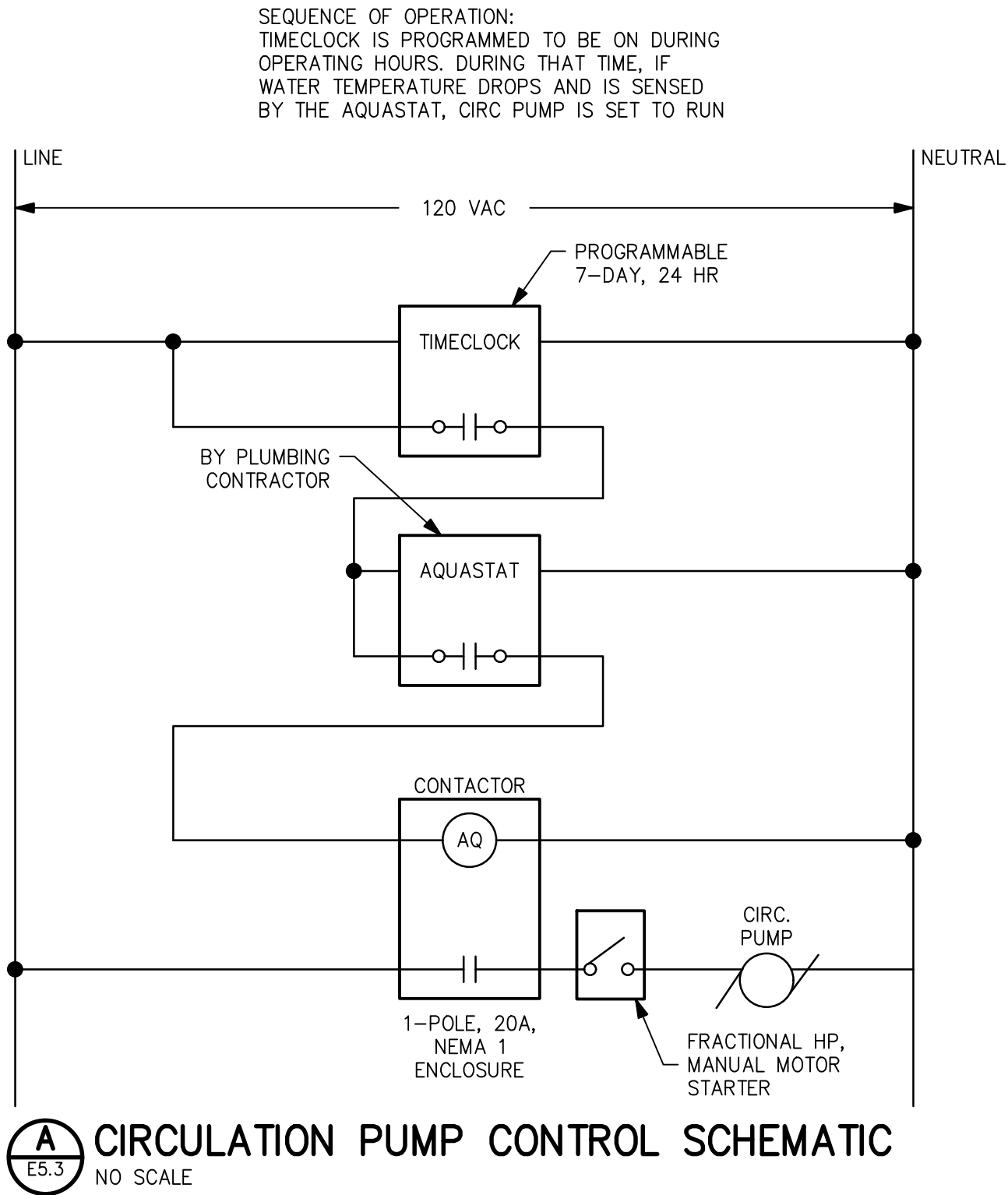
Construction Drawings

Issue Date: July 23, 2025

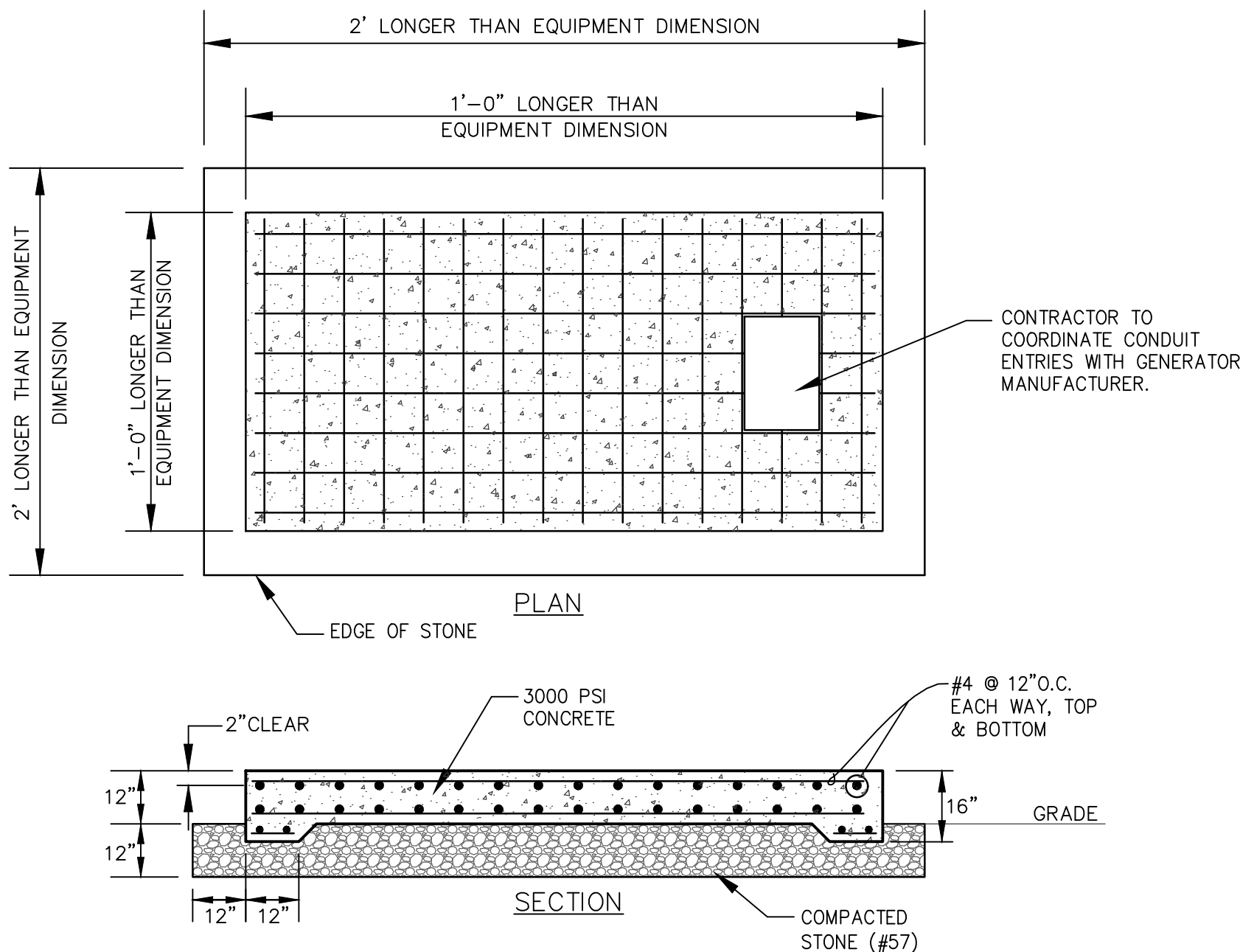
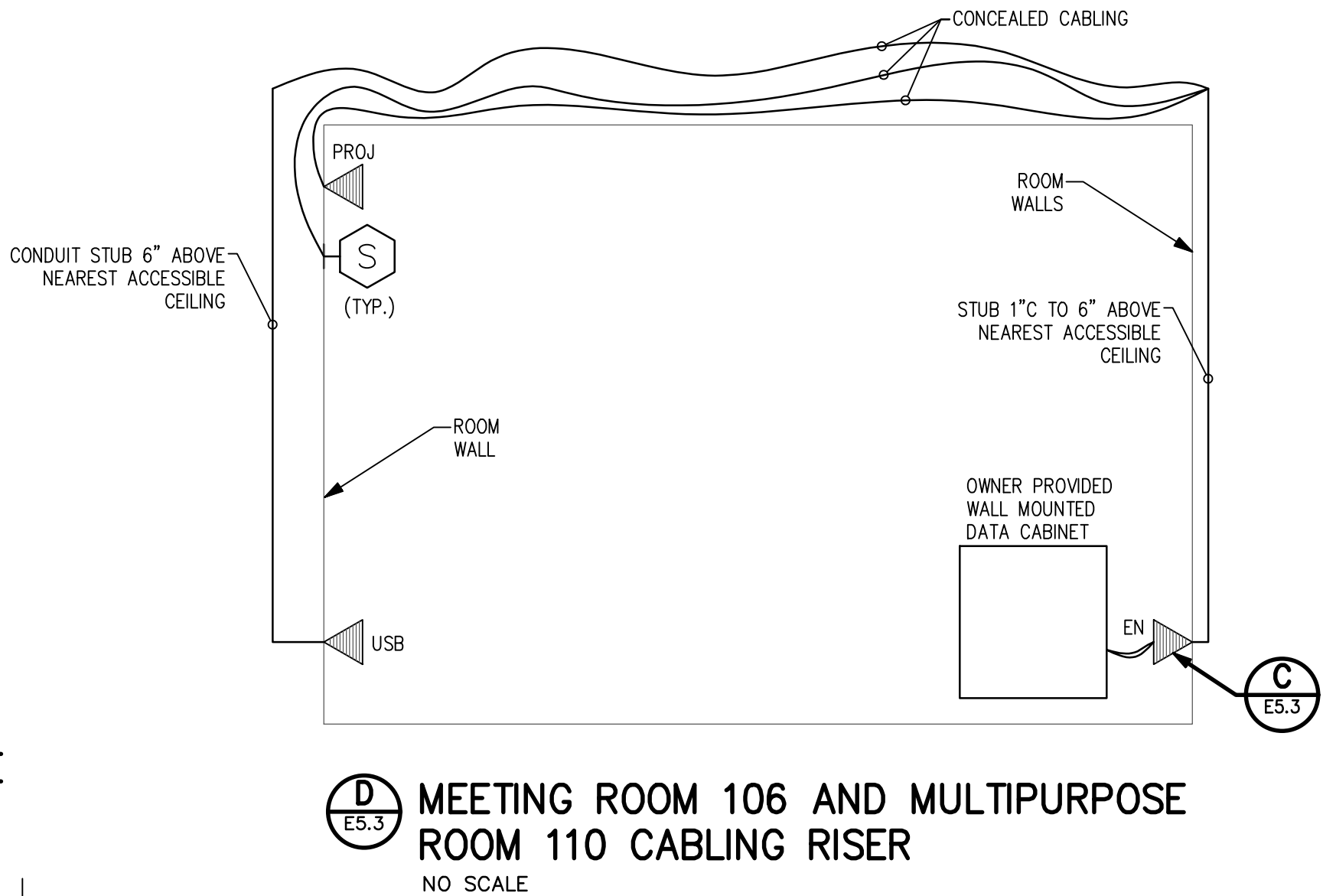
**ELECTRICAL
DETAILS**

Rev.	Date	Notes

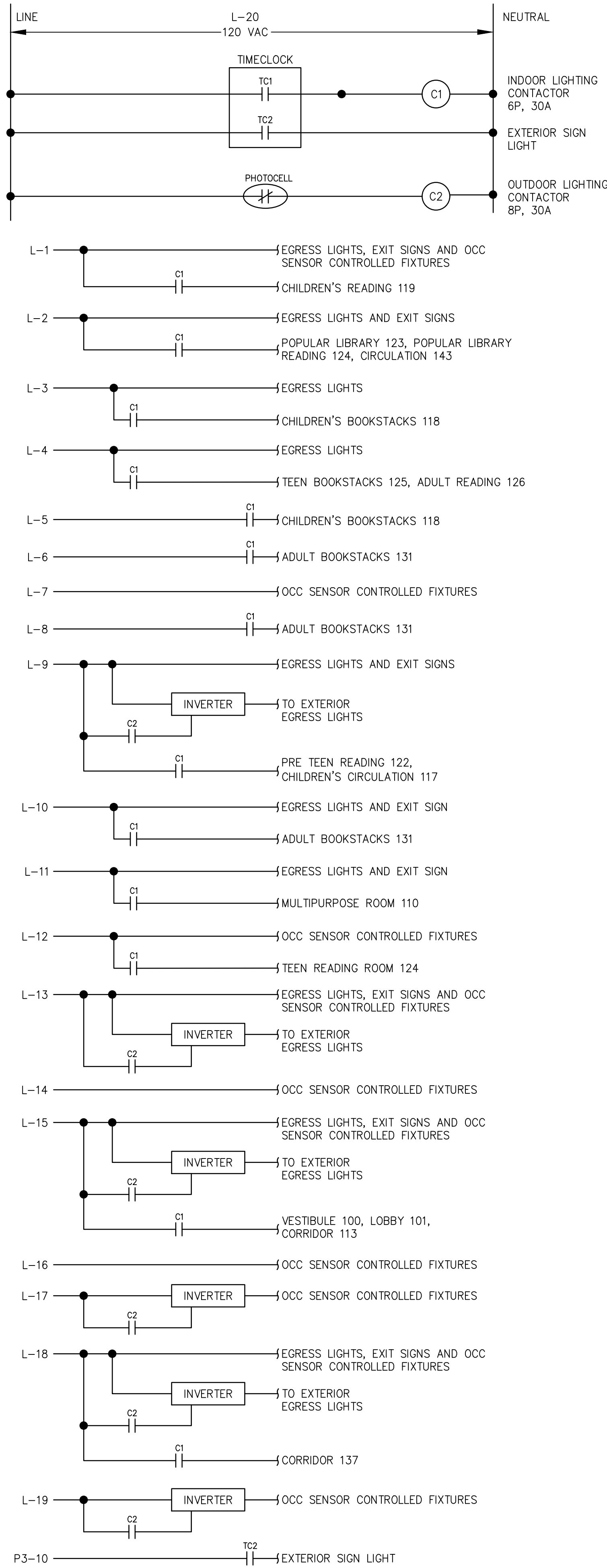
E5.2



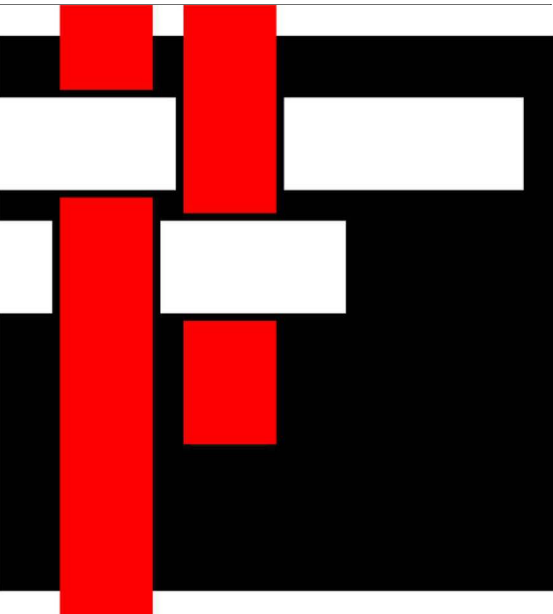
C BOX W/ BRUSH STYLE CABLE ENTRY DEVICE
E5.3 NO SCALE



- NOTES:
1. PROVIDE ANCHOR BOLTS FOR GENERATOR & ENCLOSURE PER MANUFACTURER'S REQUIREMENTS.
 2. BASE PAD SIZE ON ACTUAL EQUIPMENT SUPPLIED. PAD SHOULD EXTEND 6" PAST EQUIPMENT EXTERIOR IN EACH DIRECTION.



- AUTO MODE CONTROL SCHEME
1. INTERIOR LIGHTS THAT ARE NOT UNDER OCCUPANCY SENSOR CONTROL OR IN ELECTRICAL E1, RISER 102 AND DATA D1 SHALL TURN ON/OFF VIA TIMECLOCK UNO.
 2. EXTERIOR LIGHTS TURN ON/OFF VIA PHOTOCELL.
 3. EXTERIOR EGRESS LIGHTS SHALL REMAIN ENERGIZED DURING POWER OUTAGES THROUGH THE INVERTERS AFTER DARK. THE SWITCHED INPUT TO THE INVERTER FROM THE CONTACTORS PREVENTS OPERATION OF THE INVERTER DURING DAYLIGHT.



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& ASSOCIATE
ARCHITECTURE**

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Wilmington, NC 28401
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s2a3.com

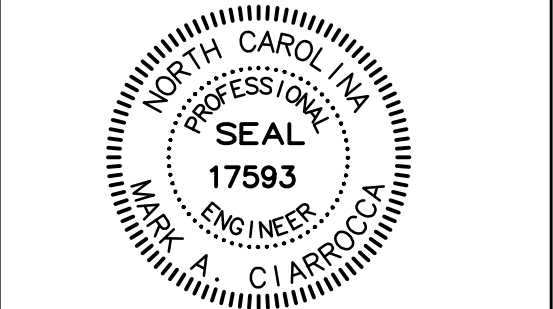
CLH DESIGN, P.A.
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Suite 120
Cary, North Carolina 27518
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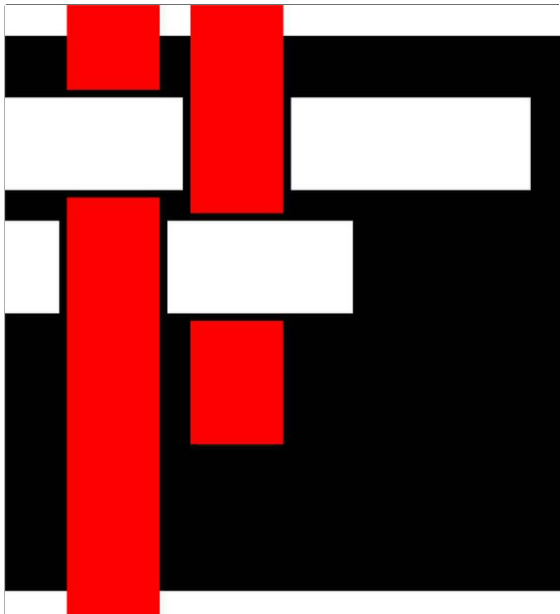
Construction Drawings

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**ELECTRICAL
DETAILS**

Rev.	Date	Notes

E5.3

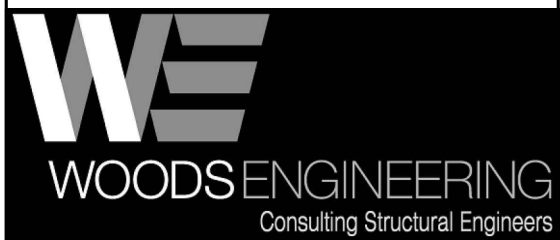


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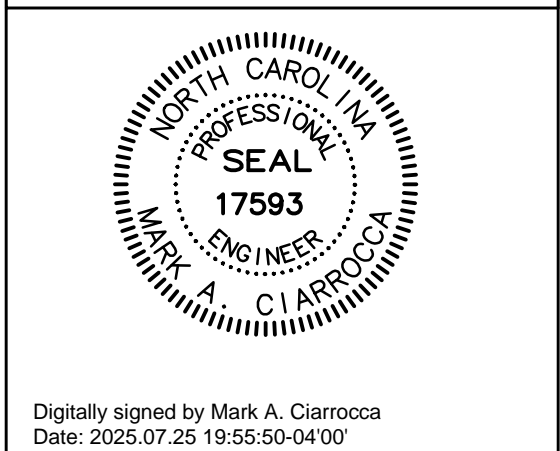
124 Market Street
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Phone: 910.343.8007
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Construction Drawings

Issue Date: July 23, 2025

ELECTRICAL
LUMINAIRE
SCHEDULE

Rev.	Date	Notes

E6.1

LUMINAIRE SCHEDULE									
CALLOUT	SYMBOL	DESCRIPTION	LAMP	BALLAST	VOLTS	MOUNTING	MANUFACTURER / MODEL	NOTES	CALLOUT
BL		2x4, ARCHITECTURAL LENSED, INDIRECT	(1) 40W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	COLUMBIA #LCAT SERIES DAYBRITE #FGX SERIES METALUX #24CZ SERIES	4500 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. SMOOTH, ROUND LENSE.	BL
BM		2x4, ARCHITECTURAL LENSED, INDIRECT	(1) 47W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	COLUMBIA #LCAT SERIES DAYBRITE #FGX SERIES METALUX #24CZ SERIES	5400 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. SMOOTH, ROUND LENSE.	BM
C2		2' LINEAR VANITY	(1) 15W LED	LED DRIVER	120V 1P 2W	WALL MTD, COORDINATE MTG HEIGHT WITH ARCHITECT	DAYBRITE #FLP SERIES LUMENCIA #LIN44-W METALUX #2BCLED SERIES	2000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. SMOOTH, SQUARE LENS.	C2
C4		4' LINEAR VANITY	(1) 20W LED	LED DRIVER	120V 1P 2W	WALL MTD, COORDINATE MTG HEIGHT WITH ARCHITECT	DAYBRITE #FLP SERIES LUMENCIA #LIN44-W METALUX #4BCLED SERIES	3000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. SMOOTH, SQUARE LENS.	C4
EG		EMERGENCY EGRESS, BATTERY	(2) 5W MR 16 LED	BATTERY	120V 1P 2W	WALL; MTD 8'-0" AFF	EMERGLITE #COMPACT PREMIER SERIES BEGHELLI #ECCO LUNA LED SERIES LIGHTALARMS #COMPACT GRANDE SERIES	CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT IN SAME SPACE. THESE FIXTURES ARE NOT TAGGED WITH "EG" ON THE DRAWINGS; ONLY THE SYMBOL IS USED. DESIGN CRITERIA: 70 FT SPACING, UTILIZING 6 FT WIDE PATH, 80/50/20 REFLECTANCES, MAINTAINING 1 FC AVG AND 0.2 FC MINIMUM.	EG
EGL		EMERGENCY EGRESS, BATTERY	(2) 4W MR 16 LED	BATTERY	120V 1P 2W	WALL; MTD 8'-0" AFF	EMERGLITE #COMPACT PREMIER SERIES BEGHELLI #ECCO LUNA LED SERIES LIGHTALARMS #COMPACT GRANDE SERIES	CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT IN SAME SPACE. THESE FIXTURES ARE NOT TAGGED WITH "EGL" ON THE DRAWINGS; ONLY THE SYMBOL IS USED.	EGL
I8M		8' INDUSTRIAL	(1) 84W LED	LED DRIVER	120V 1P 2W	PENDANT/SURFACE	COLUMBIA #LCL SERIES DAYBRITE #FSS SERIES METALUX #SNLED SERIES	10000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WIRE GUARD. FROSTED LENS.	I8M
IL		4' INDUSTRIAL	(1) 30W LED	LED DRIVER	120V 1P 2W	PENDANT/SURFACE; MTD 10" AFF	COLUMBIA #LCL SERIES DAYBRITE #FSS SERIES METALUX #SNLED SERIES	4000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WIRE GUARD. FROSTED LENS.	IL
IV1		INVERTER, EGRESS LIGHTING	N/A	BATTERY	120V 1P 2W	SURFACE	EMERGI-LITE #EMIU SERIES BODINE #ELI-S SERIES LIGHTALARMS #LMIU SERIES	INVERTER FOR BATTERY BACKUP OF EGRESS LIGHTING; 100W FOR 90 MINUTES (MINIMUM). INCLUDE SELF-DIAGNOSTIC OPTION. LOCATE ABOVE CEILING - PROVIDE "LIGHTING INVERTER" LABEL ON CEILING GRID BELOW INSTALLED LOCATION. STANDARD LIGHTING CONTROL OVERRIDE FOR 0-10V DIMMING SYSTEM.	IV1
IV2		INVERTER, EGRESS LIGHTING	N/A	BATTERY	120V 1P 2W	SURFACE	EMERGI-LITE #EMIU SERIES BODINE #ELI-S SERIES LIGHTALARMS #LMIU SERIES	INVERTER FOR BATTERY BACKUP OF EGRESS LIGHTING; 250W FOR 90 MINUTES (MINIMUM). INCLUDE SELF-DIAGNOSTIC OPTION. LOCATE ABOVE CEILING - PROVIDE "LIGHTING INVERTER" LABEL ON CEILING GRID BELOW INSTALLED LOCATION. STANDARD LIGHTING CONTROL OVERRIDE FOR 0-10V DIMMING SYSTEM.	IV2
MA		DIRECT/INDIRECT ACOUSTIC PENDANT	(1) 89W LED	LED DIMMABLE DRIVER	120V 1P 2W	PENDANT; MTD 15' AFF	DESIGN BASIS: PICASSO #ECO-PR SERIES LUMENWERX #VIA2ACOP SERIES 3G LIGHTING #3G-1PLA-DI SERIES	8 FOOT FIXTURE LENGTH. 16" HEIGHT. PROVIDE 750 LUMENS PER LINEAR FOOT DIRECT OUTPUT/500 LUMENS PER LINEAR FOOT INDIRECT. 4000K COLOR TEMPERATURE. BATWING INDIRECT LENSE AND FLUSH BOTTOM LENSE. ACOUSTIC MATERIAL FINISH SELECTION BY ARCHITECT.	MA
MA-NL		UN-LIT ACOUSTIC PENDANT			MULTIPLE	PENDANT; MTD 15' AFF	DESIGN BASIS: PICASSO #WAT SERIES LUMENWERX #VIA2ACOBP SERIES 3G LIGHTING #3G-1PLA-AC	8 FOOT PANEL LENGTH. 16" HEIGHT. AIRCRAFT CABLE SUSPENSION, ROUND CANOPY. ACOUSTIC MATERIAL FINISH SELECTION BY ARCHITECT. PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH ARCHITECT.	MA-NL
MS		DIRECT LED	(1) 40W LED	LED DIMMABLE DRIVER	120V 1P 2W	SURFACE MTD TO BOTTOM OF ROOF PURLINS	TECHOLED #BX-2 SERIES LUMENWERX #VIA 2 SERIES PINNACLE #EDGE EX2D SERIES	LENGTH AS INDICATED ON DRAWINGS. PROVIDE 1000 LUMENS PER LINEAR FOOT DIRECT OUTPUT. 4000K COLOR TEMPERATURE. FLUSH, FROSTED BOTTOM LENSE. FINISH SELECTION BY ARCHITECT.	MS
P		DIRECT/INDIRECT PENDANT	(1) 9.6W LED	LED DIMMABLE DRIVER	120V 1P 2W	PENDANT; MTD 15' AFF	BETACALCO # SQUIGGLE-CONTINUOUS SERIES LUMENWERX #CURV2PPAT PMC #ARCX-N SERIES TECHOLED #BX-CURV SERIES PICASSO LIGHTING #CURVES-3 SERIES	CUSTOM LENGTH AND SHAPE AS INDICATED ON DRAWING. PROVIDE 750 LUMENS PER LINEAR FOOT DIRECT/350 LUMENS PER LINEAR FOOT INDIRECT OUTPUT. 4000K COLOR TEMPERATURE. FLUSH, FROSTED BOTTOM LENS. FINISH SELECTION BY ARCHITECT. PROVIDE PHOTOMETRIC LIGHTING CALCULATIONS FOR FIXTURES IN ROOMS 118 AND 131.	P
R6		6" RECESSED CAN	(1) 20W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	PRESCOLITE #LFR6RD SERIES LIGHTOLIER #M6R SERIES PORTFOLIO #LD6 SERIES	2000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. SELF-FLANGED LENSED REFLECTOR TRIM; LOW IRIDESCENT CLEAR FINISH.	R6
R6XE		6" RECESSED CAN, EXTERIOR, EGRESS	(1) 18W LED	LED DRIVER	120V 1P 2W	RECESSED	LITON #CH6IC SERIES LIGHTOLIER #M6R SERIES PORTFOLIO #LD6 SERIES	DAMP LOCATION, 2000 NOMINAL LUMENS. 4000K COLOR TEMP; SELF-FLANGED OPEN REFLECTOR TRIM, LOW IRIDESCENT CLEAR FINISH. IC RATED, AIRTIGHT CONSTRUCTION, GASKET BETWEEN FIXTURE & SOFFIT; SEE SPECIFICATIONS FOR ENERGY CODE REQUIREMENTS.	R6XE
TL		TRACK FIXTURE	(1) 9W LED	DIMMING	120V 1P 2W	TRACK	HALO #B20S SERIES LEVITON #CTL905 SERIES WAC LIGHTING #H 7011 SERIES	1000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. 38 DEGREE BEAM ANGLE. FIELD CHANGABLE OPTICS. PROVIDE SEPERATE SPOT AND FLOOD OPTICS FOR EACH PROVIDED TRACK HEAD, PROVIDE EXTRA OPTICS TO OWNER. FINISH SELECTION BY ARCHITECT. THESE FIXTURES ARE NOT TAGGED WITH "TL" ON THE DRAWINGS; ONLY THE SYMBOL IS USED.	TL
TR		TRACK		DIMMING	120V 1P 2W	PENDANT MTD, COORDINATE HEIGHT WITH ARCHITECT	HALO #LZR SERIES CONTECH # LT SERIES WAC LIGHTING #HT SERIES	1-CIRCUIT TRACK; COORDINATE LENGTH WITH DRAWINGS. FINISH SELECTION BY ARCHITECT.	TR
WB		HALF CYLINDER WALL PACK, EGRESS	(1) 45W LED (1) 20W LED	LED DRIVER LED DRIVER	120V 1P 2W	WALL; COORDINATE MOUNTING HEIGHT WITH ARCHITECT	HUBBELL #RD12 SERIES MCGRAW-EDISON #ISC SERIES PRE-APPROVED EQUIVALENT	5300 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. TYPE IV DISTRIBUTION. DUAL LED DRIVERS AND DUAL LED ARRAYS FOR EGRESS REQUIREMENTS. EMERGENCY LIGHTING OUTPUT TO BE 50W MAX. DOWNLIGHT ONLY. FINISH SELECTION BY ARCHITECT.	WB
WS		2' EXTERIOR INDUSTRIAL, EGRESS	(1) 14W LED	LED DIMMABLE DRIVER	120V 1P 2W	SURFACE	AXIS #EX2S SERIES FINELITE #HP4WL SERIES PRECISION ARCHITECTURAL LIGHTING #ML3WL66-D SERIES	700 NOMINAL LUMENS PER FOOT. 4000K COLOR TEMPERATURE. FLUSH BOTTOM LENS. FINISH SELECTION BY ARCHITECT.	WS
WW		4' RECESSED WALL WASH	(1) 75W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	AXIS #BBRILED SERIES LEDALITE #39 SERIES ELP #DWTB SERIES	4000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WALL WASH OPTIC.	WW
X		EXIT SIGN, BATTERY BACKUP	(2) 1W LED	BATTERY	120V 1P 2W	UNIVERSAL	EMERGLITE #PREMIER SERIES BEGHELLI #PACO PX SERIES LIGHTALARMS #GRANDE SERIES	CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT IN SAME SPACE. THESE FIXTURES ARE NOT TAGGED WITH "X" ON THE DRAWINGS; ONLY THE SYMBOL IS USED.	X

MDPA											
ROOM: ELECTRICAL E1			VOLTS: 208Y/120V 3P 4W			AIC: 18,000					
MOUNTING: SURFACE			BUS AMPS: 500			MAIN BKR: 500					
FED FROM: ATS			NEUTRAL: 100%			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	60/3	SPD-MDPA	0			2	100/3	PANEL P1	13.1		
3				0		4				10.5	
5					0	6					11.4
7	70/3	WATER HEATER WH-1	6			8	70/3	PHP-3	5.83		
9				6		10				5.83	
11					6	12					5.83
13	110/3	PHP-1	10.3			14	60/2	DIS-PUMP STATION	2.5		
15				10.3		16				2.5	
17					10.3	18	-/1	SPACE			0
19	70/3	PHP-2	5.83			20	-/3	SPACE	0		
21				5.83		22				0	
23					5.83	24	-/3	SPACE	0		0
25	-/3	SPACE	0			26	-/3	SPACE	0		
27				0		28				0	
29					0	30					0
						TOTAL CONNECTED KVA BY PHASE			43.6	41	39.4
						TOTAL CONNECTED AMPS BY PHASE			363	341	329
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LARGEST MOTOR			9.1	2.28	(25%)	CONTINUOUS			22.5	28.1	(125%)
MOTORS			4.99	4.99	(100%)	NONCONTINUOUS			6.8	6.8	(100%)
RECEPTACLES			23.7	16.9	(50%>10)	HEATING			66	66	(100%)
						COOLING			34.9	0	(0%)
						TOTAL LOAD				125	
						BALANCED 3-PHASE LOAD				347 A	

MDPB

ROOM: ELECTRICAL E1			VOLTS: 208Y/120V 3P 4W			AIC: 18,000					
MOUNTING: SURFACE			BUS AMPS: 500			MAIN BKR: 500					
FED FROM: ATS			NEUTRAL: 100%			LUGS: STANDARD					
NOTE:											

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	100/3	PANEL P2	9.05			2	60/3	SPD-MDPB	0		
3				9.88		4				0	
5					8.95	6					0
7	100/3	PANEL P3	0.8			8	100/3	PANEL L	6.21		
9				1.3		10				6.31	
11					1.1	12					6.06
13	125/3	PHP-6	11.2			14	-/3	SPACE	0		
15				11.2		16				0	
17					11.2	18	-/3	SPACE	0		0
19	70/3	PHP-5	5.83			20	-/3	SPACE	0		
21				5.83		22				0	
23					5.83	24	-/3	SPACE	0		0
25	70/3	PHP-4	5.83			26				0	
27				5.83		28				0	
29					5.83	30					0
						TOTAL CONNECTED KVA BY PHASE			39	40.4	39
						TOTAL CONNECTED AMPS BY PHASE			324	336	325

	CONN KVA	CALC KVA				CONN KVA	CALC KVA	
LIGHTING	18.6	23.3	(125%)	KITCHEN EQUIPMENT	1	1	(100%)	
LARGEST MOTOR	10.6	2.65	(25%)	NONCONTINUOUS	9.4	9.4	(100%)	
MOTORS	1.15	1.15	(100%)	HEATING	69.7	69.7	(100%)	
RECEPTACLES	18.5	14.2	(50%>10)	COOLING	37.6	0	(0%)	
				TOTAL LOAD		121		
				BALANCED 3-PHASE LOAD		337 A		

P1

ROOM: ELECTRICAL E1			VOLTS: 208Y/120V 3P 4W			AIC: 14,000					
MOUNTING: SURFACE			BUS AMPS: 100			MAIN BKR: MLO					
FED FROM: MDPA			NEUTRAL: 100%			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	REC, REC-FLOOR	0.72			2	20/1	REC, REC-TV	0.94		
3	20/1	REC, REC-FLOOR		0.9		4	20/1	REC, REC-TV		0.94	
5	20/1	REC			0.72	6	20/1	REC, REC-FLOOR			1.08
7	20/1	REC-WASHER/DRYER	1.8			8	20/1	REC, REC-TV	0.94		
9	20/1	REC		0.72		10	20/1	REC-EXT GFCI		0.54	
11	20/1	REC, REC-FLOOR			0.9	12	20/1	REC, REC-TV			0.94
13	20/1	REC, REC-FLOOR	0.72			14	20/1	REC, REC-FLOOR, REC-TV	0.76		
15	20/1	REC, REC-FLOOR, REC-TV		0.76		16	20/1	REC-FLOOR		0.72	
17	20/1	REC			0.72	18	20/1	REC, REC-TV			0.94
19	20/1	REC, REC-TV	0.76			20	20/1	REC-FLOOR	0.9		
21	20/1	REC-COPIER		1		22	20/1	REC, REC-TV		0.94	
23	20/1	REC-FLOOR			0.72	24	20/1	REC, REC-EXT GFCI, REC-TV			1.12
25	20/1	REC	0.72			26	20/1	REC, REC-TV	0.76		
27	20/1	REC		0.72		28	20/1	REC, REC-FLOOR		0.72	
29	20/1	REC, REC-TV			0.94	30	20/2	REC-BLOCK HEATER			1.5
31	20/1	REC, REC-EXT GFCI, REC-TV	1.12			32			1.5		
33	20/1	(**) REC-HOT BOX		1.5		34	20/1	REC-BATTERY CHARGER		1	
35	20/1	(**) REC-HOT BOX			1.5	36	20/1	REC-ROOF			0.36
37	20/1	(**) REC-HOT BOX	1.5			38	20/1	SPARE	0		
39	20/1	SPARE		0		40	20/1	SPARE		0	
41	20/1	SPARE			0	42	20/1	SPARE			0
						TOTAL CONNECTED KVA BY PHASE			13.1	10.5	11.4
						TOTAL CONNECTED AMPS BY PHASE			110	87.2	95.6
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
RECEPTACLES			23.7	16.9	(50%>10)	CONTINUOUS			4.5	5.63	(125%)
						NONCONTINUOUS			6.8	6.8	(100%)
						TOTAL LOAD				29.3	
						BALANCED 3-PHASE LOAD				81.3 A	

(**) INDICATES 30mA GFCI C/B

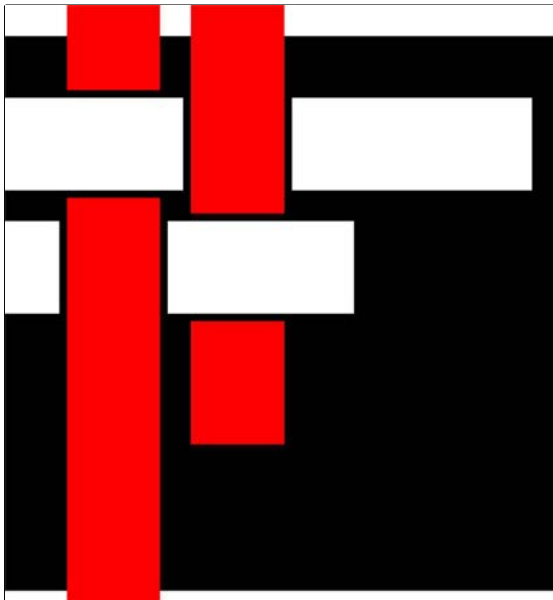
P2

ROOM: ELECTRICAL E1			VOLTS: 208Y/120V 3P 4W			AIC: 14,000					
MOUNTING: SURFACE			BUS AMPS: 100			MAIN BKR: MLO					
FED FROM: MDPB			NEUTRAL: 100%			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	REC, REC-TV	0.94			2	20/1	REC, REC-TV	0.76		
3	20/1	REC, REC-FLOOR		1.08		4	20/1	REC, REC-FLOOR		0.72	
5	20/1	REC, REC-FLOOR			0.72	6	20/1	REC, REC-GFCI			0.54
7	20/1	REC-PROJECTOR	0.25			8	20/1	REC	0.36		
9	20/1	REC		0.72		10	20/1	(*) REC-DISHWASHER		1	
11	20/1	(*) REC-DISHWASHER			1	12	20/1	REC-MICROWAVE			1
13	20/1	(*) REC-REFRIGERATOR	1			14	20/1	(*) REC-REFRIGERATOR	1		
15	20/1	REC		0.54		16	20/1	REC		0.9	
17	20/1	REC			0.9	18	20/1	REC, REC-FLOOR			0.72
19	20/1	REC, REC-TV	0.94			20	20/1	REC	0.9		
21	20/1	REC, REC-EXT GFCI, REC-FLOOR		0.9		22	20/1	REC-COPIER		1	
23	20/1	REC-PROJECTOR			0.25	24	20/1	REC			0.72
25	20/1	REC, REC-GFCI	0.9			26	20/1	REC	0.72		
27	20/1	REC, REC-GFCI, REC-TV		1.12		28	20/1	REC		0.9	
29	20/1	(*) REC-EWC			1.2	30	20/1	REC			0.9
31	20/1	SECURITY SYSTEM	0.2			32	20/1	REC, REC-EXT GFCI, REC-GFCI	1.08		
33	20/1	SPARE		0		34	20/1	SPARE		0	
35	20/1	SPARE			0	36	20/1	SPARE			0
37	20/1	SPARE	0			38	20/1	SPARE	0		
39	20/1	(#) FIRE ALARM PANEL		1		40	20/1	SPARE		0	
41	20/1	(#) EMERGENCY RESPONDER RADIO			1	42	20/1	SPARE			0
						TOTAL CONNECTED KVA BY PHASE			9.05	9.88	8.95
						TOTAL CONNECTED AMPS BY PHASE			75.4	82.3	74.6
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
RECEPTACLES			18.5	14.2		(50%>10)			KITCHEN EQUIPMENT		
									1		
									NONCONTINUOUS		
									8.4		
									7.4		
									(100%)		
									(100%)		
									TOTAL LOAD		
									23.6		
									BALANCED 3-PHASE LOAD		
									65.6 A		

P3

ROOM: ELECTRICAL E1			VOLTS: 208Y/120V 3P 4W			AIC: 14,000					
MOUNTING: SURFACE			BUS AMPS: 100			MAIN BKR: MLO					
FED FROM: MDPB			NEUTRAL: 100%			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	CIRCULATOR PUMP CP-1	0.1			2	20/1	MOTORIZED PROJECTOR SCREEN	0.1		
3	20/1	WATER SHUTOFF SOLENOID VALVE		0.2		4	20/1	MOTORIZED PROJECTOR SCREEN		0.1	
5	20/1	POWERED DOORS			1	6	15/1	FAN F-2			0.1
	20/2	HEATER EBB-1	0.5			8	20/1	FAUCET TIMER CONTROL PANEL	0.1		
9				0.5		10	20/1	SIGN LT		0.5	
11	20/1	SPARE			0	12	20/1	SPARE			0
13	20/1	SPARE	0			14	20/1	SPARE	0		
15	20/1	SPARE		0		16	20/1	SPARE		0	
17	20/1	SPARE			0	18	20/1	SPARE			0
19	20/1	SPARE	0			20	20/1	SPARE	0		
21	20/1	SPARE		0		22	20/1	SPARE		0	
23	20/1	SPARE			0	24	20/1	SPARE			0
25	20/1	SPARE	0			26	20/1	SPARE	0		
27	20/1	SPARE		0		28	20/1	SPARE		0	
29	20/1	SPARE			0	30	20/1	SPARE			0
31	20/1	SPARE	0			32	20/1	SPARE	0		
33	20/1	SPARE		0		34	20/1	SPARE		0	
35	20/1	SPARE			0	36	20/1	SPARE			0
37	20/1	SPARE	0			38	20/1	SPARE	0		
39	20/1	SPARE		0		40	20/1	SPARE		0	
41	20/1	SPARE			0	42	20/1	SPARE			0
						TOTAL CONNECTED KVA BY PHASE			0.8	1.3	1.1
						TOTAL CONNECTED AMPS BY PHASE			7.08	11.1	9.17
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LIGHTING			0.5	0.625		(125%)			MOTORS	0.7	
LARGEST MOTOR			0.1	0.025		(25%)			NONCONTINUOUS	1	
									HEATING	1	
									TOTAL LOAD	3.35	
									BALANCED 3-PHASE LOAD	9.3 A	

L												
ROOM: ELECTRICAL E1			VOLTS: 208Y/120V 3P 4W				AIC: 14,000					
MOUNTING: SURFACE			BUS AMPS: 100				MAIN BKR: MLO					
FED FROM: MDPB			NEUTRAL: 100%				LUGS: STANDARD					
NOTE:												
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			
			A	B	C				A	B	C	
1	20/1	EGRESS LTG, EXIT, LTG	0.763			2	20/1	EGRESS LTG, EXIT, LTG	1.79			
3	20/1	EGRESS LTG, LTG		1.29		4	20/1	EGRESS LTG, LTG		0.892		
5	20/1	LTG			0.989	6	20/1	LTG			1.34	
7	20/1	EXH FAN, LTG	0.427			8	20/1	LTG	1.64			
9	20/1	EGRESS LTG, EXIT, INVERTER, LTG		1.01		10	20/1	EGRESS LTG, EXIT, LTG		1.5		
11	20/1	EGRESS LTG, EXIT, LTG, LTG—TRACK			1.55	12	20/1	LTG			0.768	
13	20/1	EGRESS LTG, EXIT, INVERTER, LTG	0.808			14	20/1	LTG	0.4			
15	20/1	EGRESS LTG, EXIT, INVERTER, LTG		1.13		16	20/1	EXH FAN, LTG		0.477		
17	20/1	INVERTER, LTG—WALLPACK			0.276	18	20/1	EGRESS LTG, EXH FAN, EXIT, INVERTER, LTG			1.14	
19	20/1	INVERTER, LTG—WALLPACK	0.276			20	20/1	LIGHTING CONTROL	0.1			
21	20/1	SPARE		0		22	20/1	SPARE		0		
23	20/1	SPARE			0	24	20/1	SPARE			0	
25	20/1	SPARE	0			26	20/1	SPARE	0			
27	20/1	SPARE		0		28	20/1	SPARE		0		
29	20/1	SPARE			0	30	20/1	SPARE			0	
31	20/1	SPARE	0			32	20/1	SPARE	0			
33	20/1	SPARE		0		34	20/1	SPARE		0		
35	20/1	SPARE			0	36	20/1	SPARE			0	
37	20/1	SPARE	0			38	20/1	SPARE	0			
39	20/1	SPARE		0		40	20/1	SPARE		0		
41	20/1	SPARE			0	42	20/1	SPARE			0	
						TOTAL CONNECTED KVA BY PHASE			6.21	6.31	6.06	
						TOTAL CONNECTED AMPS BY PHASE			51.7	52.6	50.5	
			CONN KVA	CALC KVA					CONN KVA	CALC KVA		
LIGHTING			18.1	22.7		(125%)			LARGEST MOTOR	0.15		
									MOTORS	0.45		
									TOTAL LOAD	23.1		
									BALANCED 3—PHASE LOAD	64.2 A		



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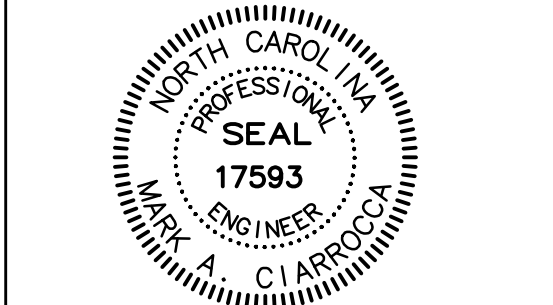
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3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA 28405
PHONE: (910) 452-4210
FAX: (910) 452-4211
OFFICE@CHEATHAMPA.COM
WWW.CHEATHAMPA.COM
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254 North Front Street Suite 201
Wilmington, NC 28401
Phone: 910.343.8007
Fax: 910.343.8088
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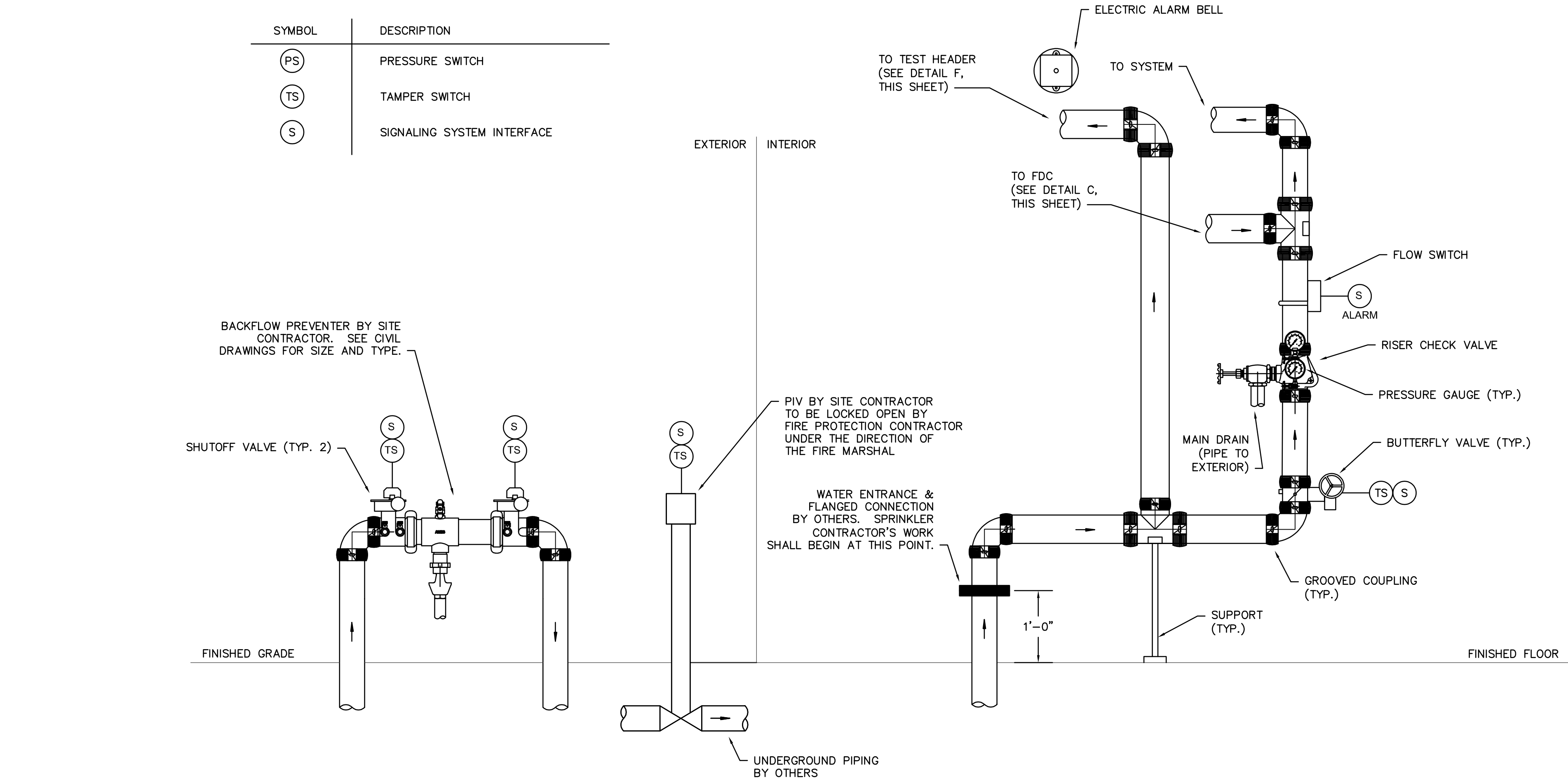
ELECTRICAL
SCHEDULES

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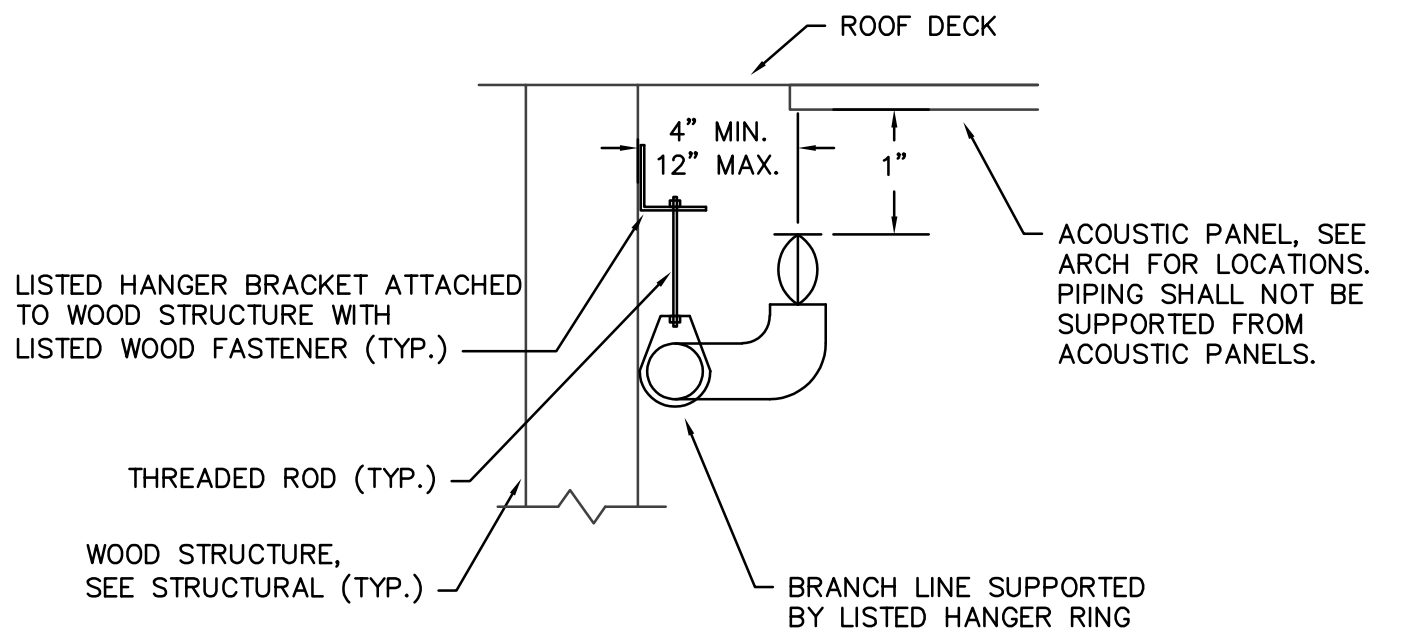
E6.3

LEGEND

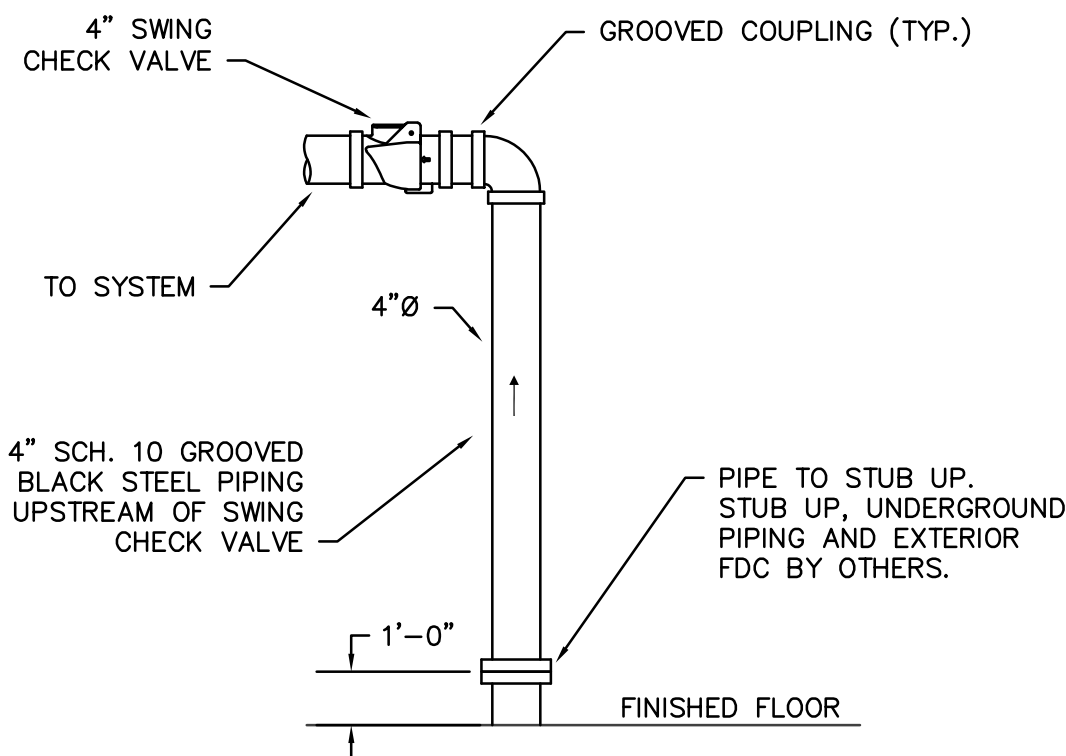
SYMBOL	DESCRIPTION
PS	PRESSURE SWITCH
TS	TAMPER SWITCH
S	SIGNALING SYSTEM INTERFACE



A
F0.1
SPRINKLER ENTRANCE DETAIL
NO SCALE

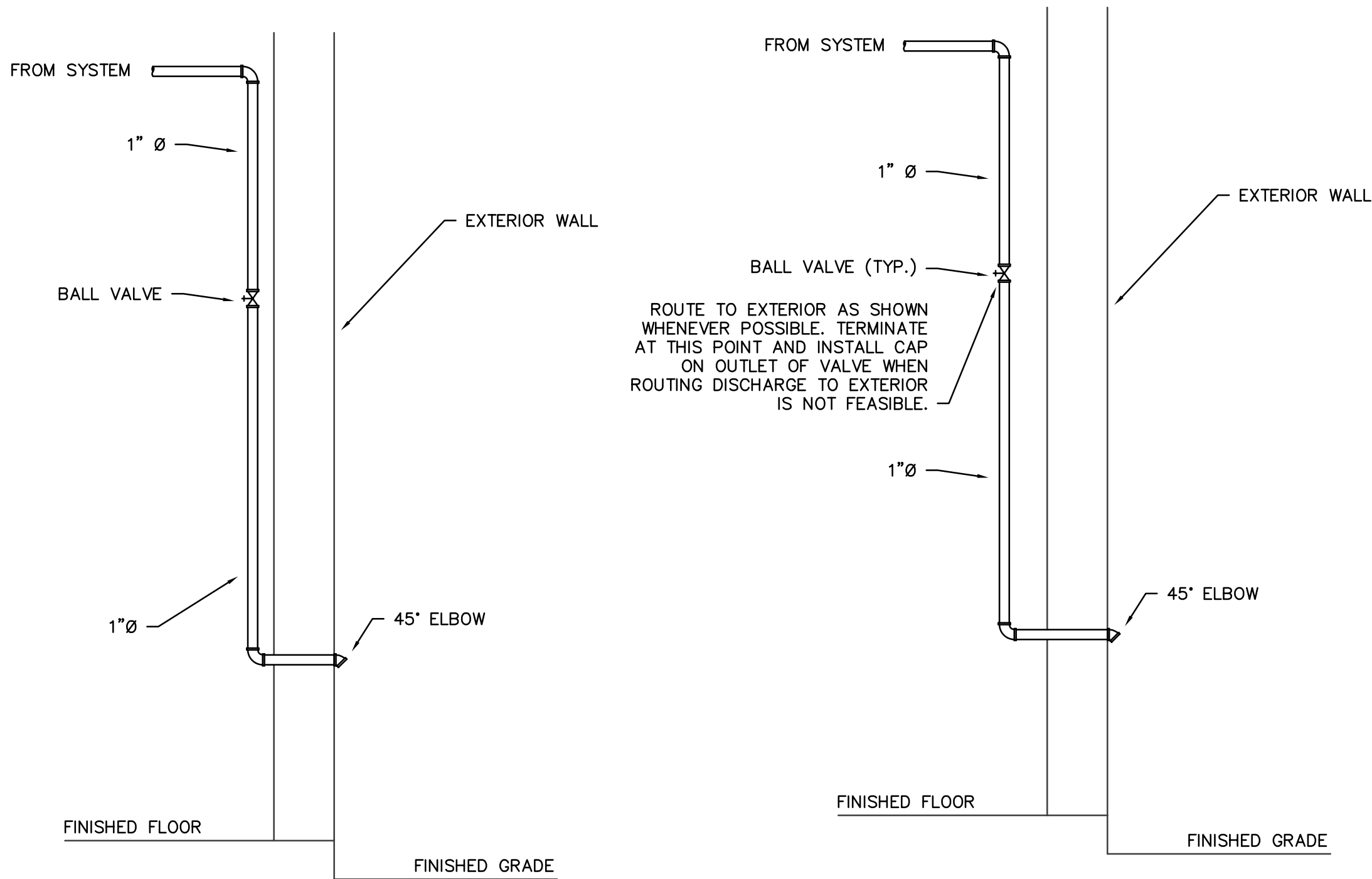


B
F0.1
PIPE SUPPORT IN OPEN CEILINGS
NO SCALE

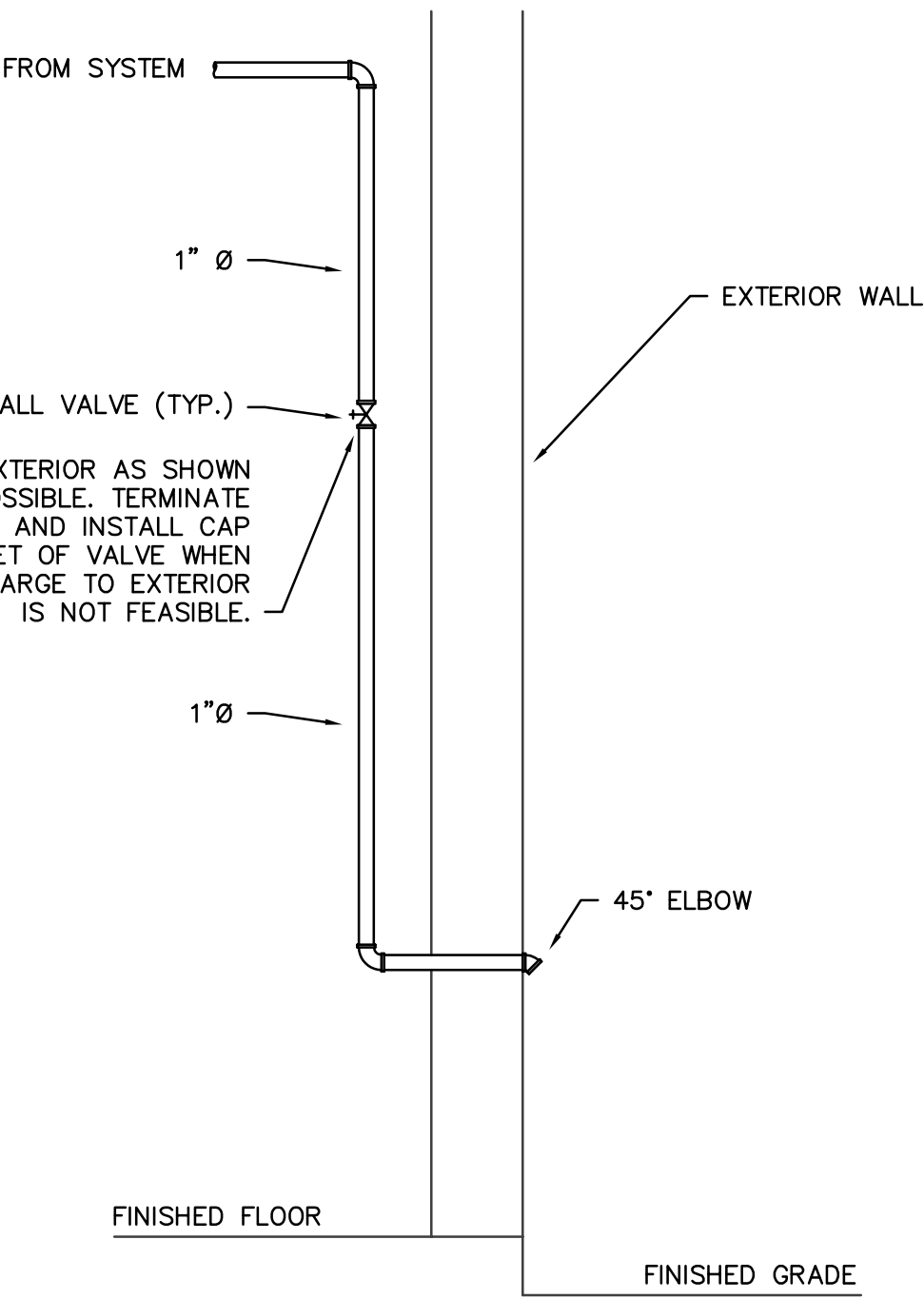


C
F0.1
FIRE DEPT. CONNECTION
NO SCALE

D
F0.1
INSPECTOR'S TEST CONNECTION
NO SCALE



E
F0.1
AUXILIARY DRAIN DETAIL
NO SCALE

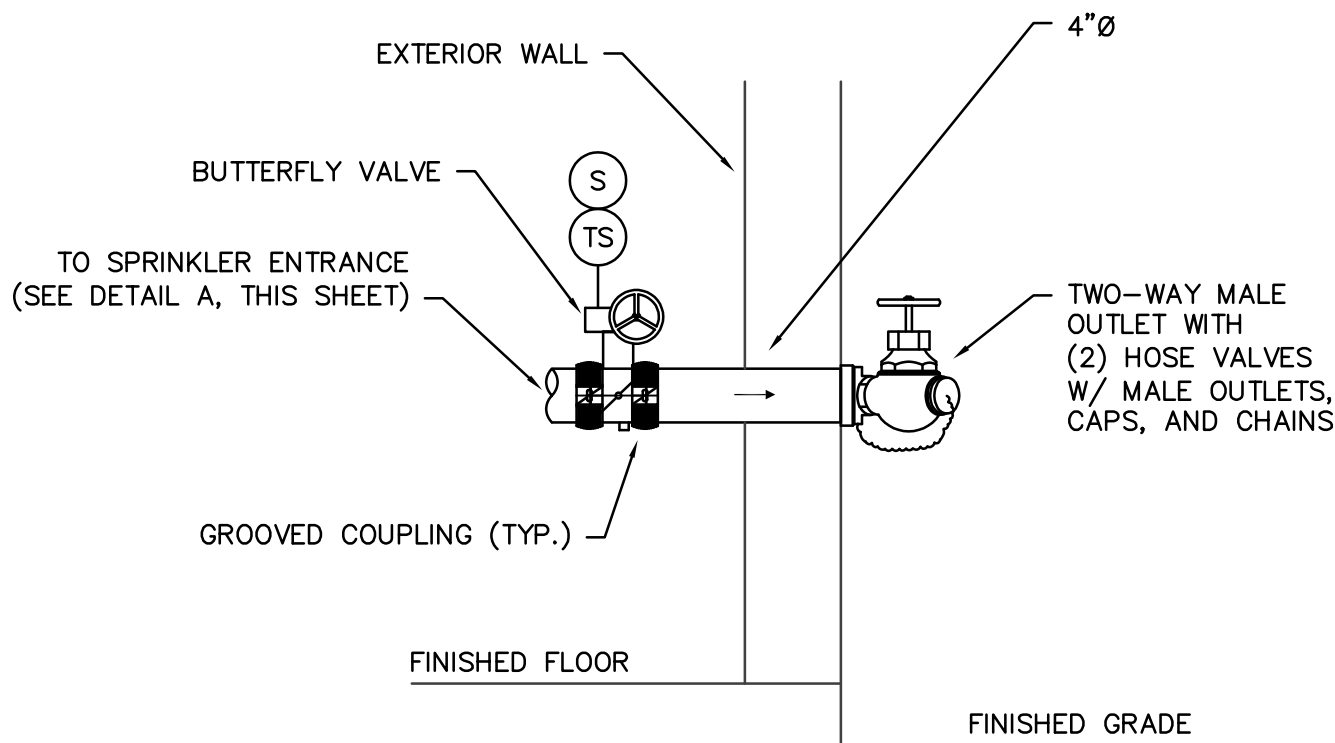


GENERAL NOTES: (APPLIES TO ALL FIRE PROTECTION DRAWINGS)

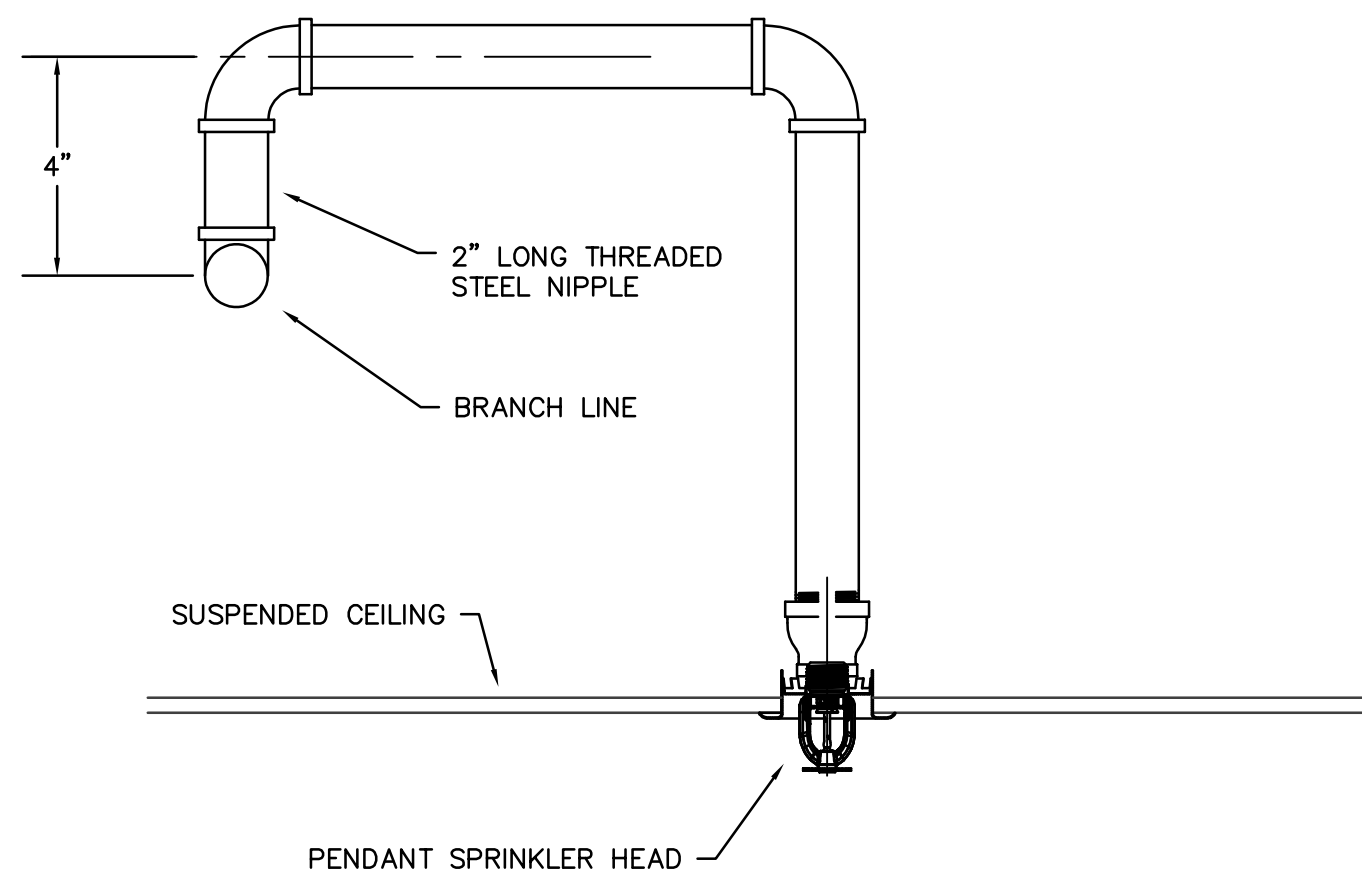
- SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH BUILDING STRUCTURE AND SYSTEMS, AS WELL AS THE WORK OF OTHER TRADES IN ORDER TO ELIMINATE CONFLICTS.
- SPRINKLER CONTRACTOR'S DESIGN SHALL BE PER NFPA 13 AND THE NC STATE FIRE CODE (LATEST EDITION APPROVED BY THE NC BUILDING CODE COUNCIL WITH NC AMENDMENTS).
- SPRINKLER CONTRACTOR SHALL PERFORM THEIR OWN FLOW TEST.
- PROVIDE AUXILIARY DRAINS WHEREVER WET SYSTEM PIPING IS ROUTED SUCH THAT WATER IS TRAPPED IN EXCESS OF 5 GALLONS.
- LIGHT HAZARD OCCUPANCIES: PER NFPA 13, DESIGN DENSITY SHALL BE 0.1 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1,500 SQUARE FEET. REMOTE AREA SHALL BE INCREASED BY 30% WHERE SPRINKLER ARE LOCATED BELOW SLOPED CEILINGS OR ROOFS WITH SLOPE GREATER THAN 2:12 PER NFPA 13. HOSE ALLOWANCE FOR LIGHT HAZARD SHALL BE 100 GPM PER NFPA 13.
- ORDINARY HAZARD I OCCUPANCIES: PER NFPA 13, DESIGN DENSITY SHALL BE 0.15 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1,500 SQUARE FEET. REMOTE AREA SHALL BE INCREASED BY 30% WHERE SPRINKLER ARE LOCATED BELOW SLOPED CEILINGS OR ROOFS WITH SLOPE GREATER THAN 2:12 PER NFPA 13. HOSE ALLOWANCE FOR ORDINARY HAZARD I SHALL BE 250 GPM PER NFPA 13.
- ORDINARY HAZARD II OCCUPANCIES: PER NFPA 13, DESIGN DENSITY SHALL BE 0.20 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1,500 SQUARE FEET. REMOTE AREA SHALL BE INCREASED BY 30% WHERE SPRINKLER ARE LOCATED BELOW SLOPED CEILINGS OR ROOFS WITH SLOPE GREATER THAN 2:12 PER NFPA 13. HOSE ALLOWANCE FOR ORDINARY HAZARD II SHALL BE 250 GPM PER NFPA 13.
- REMOTE AREAS MAY BE DECREASED DUE TO THE USE OF QUICK RESPONSE HEADS WHERE ALLOWED BY NFPA 13.
- LOCATE SPRINKLER HEADS IN THE CENTER OF CEILING TILES AND IN-LINE WITH LIGHTS AND OTHER CEILING MOUNTED ITEMS.

FIRE FLOW ANALYSIS PER NCFPC – APPENDIX B

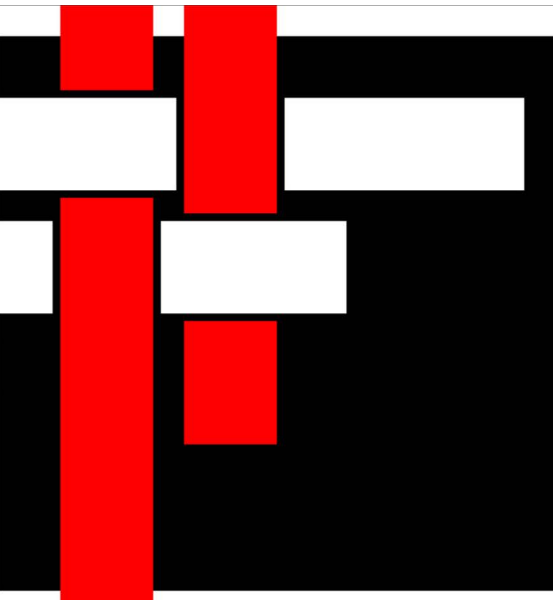
FIRE FLOW CALCULATION AREA:	20,428 SQ. FT.
CONSTRUCTION TYPE:	VB
SPRINKLER SYSTEM:	PER 903.3.1.1 (NFPA 13)
ALLOWED FLOW REDUCTION PER TABLE B105.2	25% OF VALUE LISTED IN TABLE 507.3(2) (1,000 GPM MINIMUM)
REQUIRED FIRE FLOW PER TABLE B105.1(2)	3,750 GPM @ 20 PSI
REQUIRED FIRE FLOW	1,000 GPM @ 20 PSI
AVAILABLE FIRE FLOW	1,753 GPM @ 20 PSI
REQUIRED FLOW DURATION PER TABLE B105.1(2)	4 HOURS



F
F0.1
BACKFLOW PREVENTER TEST HEADER DETAIL
NO SCALE



G
F0.1
ARMOVER DETAIL
NO SCALE

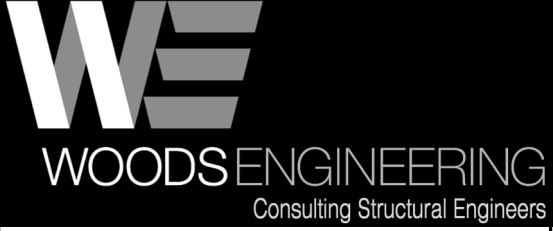


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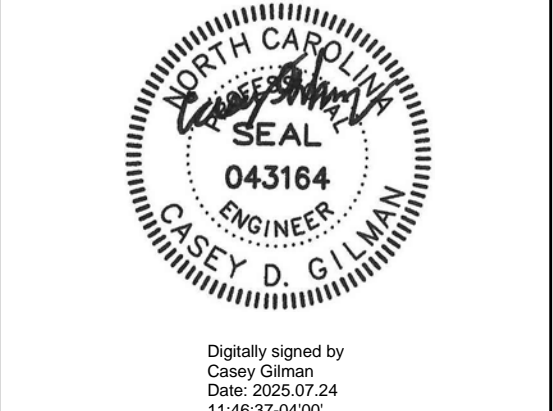
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FAX: (910) 452-4211
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Wilmington, NC 28401
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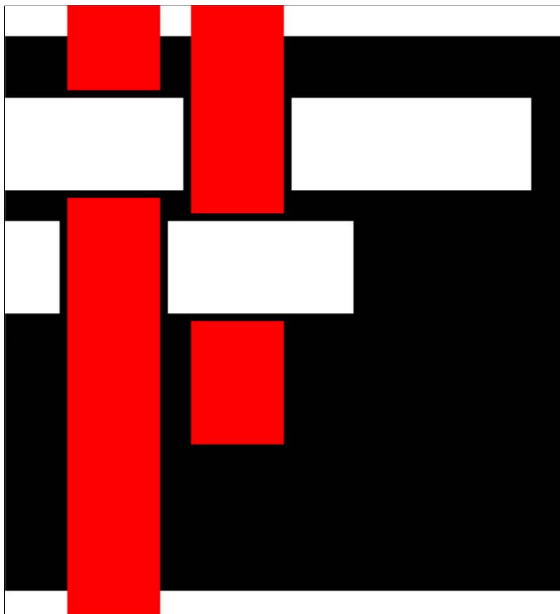
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FIRE PROTECTION
GENERAL NOTES
& DETAILS

Rev.	Date	Notes

F0.1



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400 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 319-5716
Fax: (919) 319-7516
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CONSULTING ENGINEERS**
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WILMINGTON, NORTH CAROLINA 28405
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FAX: (910) 452-4211
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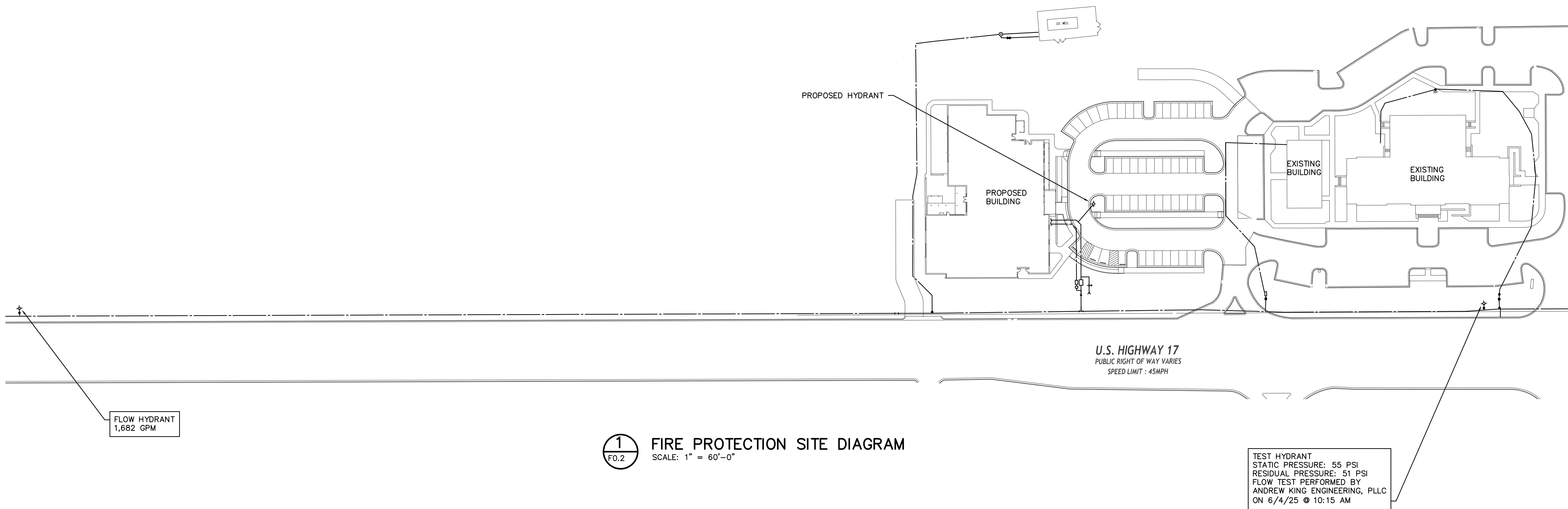
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FIRE PROTECTION SITE DIAGRAM

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F0.2



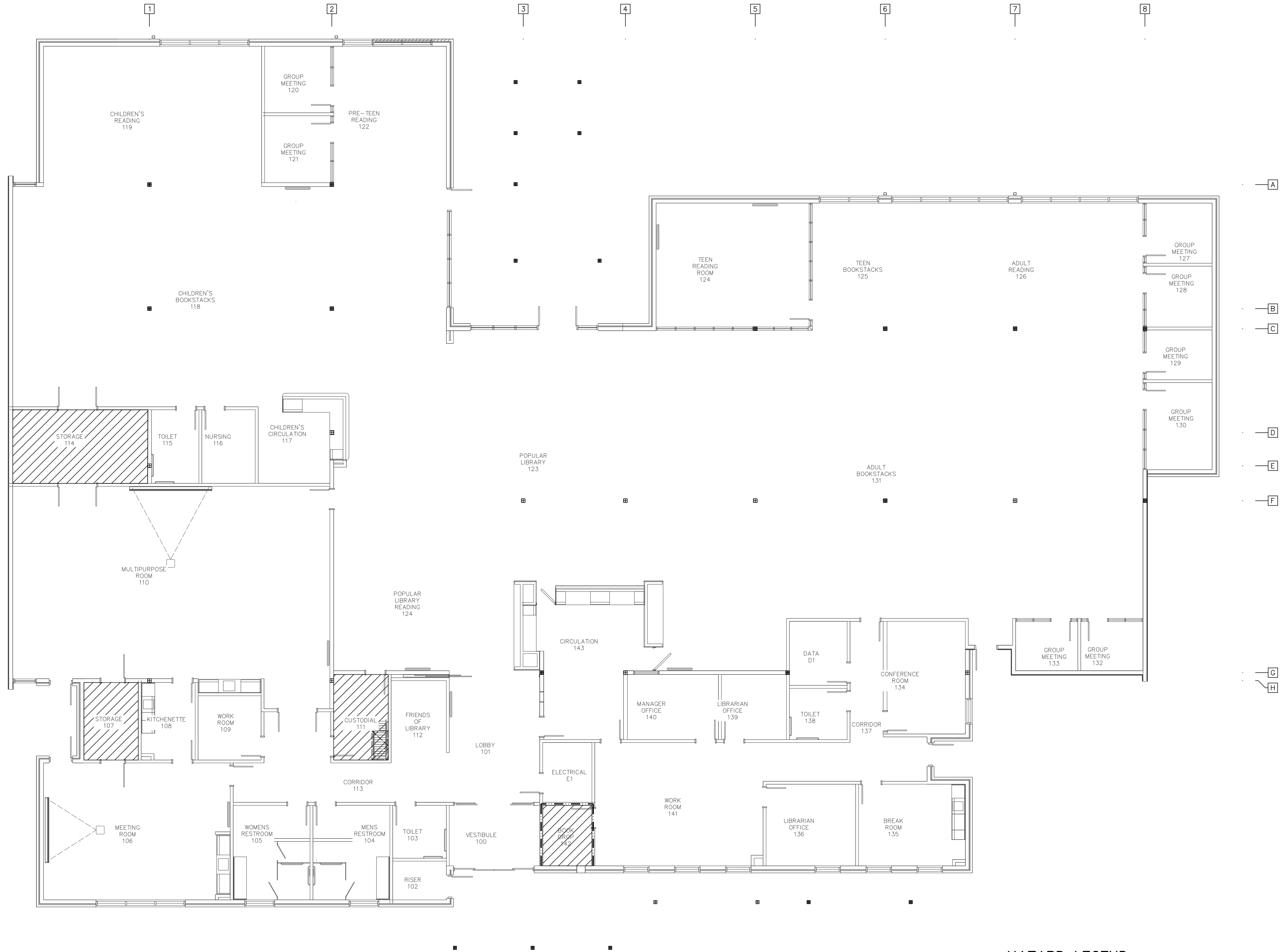
NOTES:

1. THIS PLAN IS INCLUDED FOR INFORMATION ONLY, TO SHOW GENERAL ARRANGEMENT OF THE BUILDING, HYDRANTS USED FOR FLOW TEST DURING DESIGN, AND WATER MAIN. SOME INFORMATION IS APPROXIMATE. SEE CIVIL DRAWINGS FOR PIPE SIZES, VALVES, BACKFLOW PREVENTERS, ETC.
2. CONTRACTOR SHALL PROVIDE THEIR OWN FLOW TEST. CONTRACTOR SHALL COORDINATE WITH PENDER COUNTY UTILITIES TO ENSURE THAT THE HAMPSTEAD TANK IS OFFLINE DURING THE FLOW TEST TO CREATE A WORST CASE SCENARIO. CONTRACTOR SHALL SUBMIT THE FLOW TEST TO THE DESIGN TEAM PRIOR TO STARTING ANY SPRINKLER SYSTEM DESIGN.
3. FLOW TEST DATA STATIC PRESSURE, RESIDUAL PRESSURE AND FLOW SHALL BE REDUCED BY 10% WHEN PERFORMING HYDRAULIC CALCULATIONS.



GRAPHIC SCALE: 1"=60'

0 15 30 60 120'



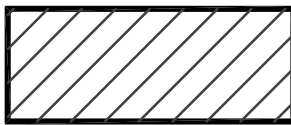
1
F1.0

FIRE PROTECTION HAZARD PLAN
SCALE: 1/8" = 1'-0"

HAZARD LEGEND



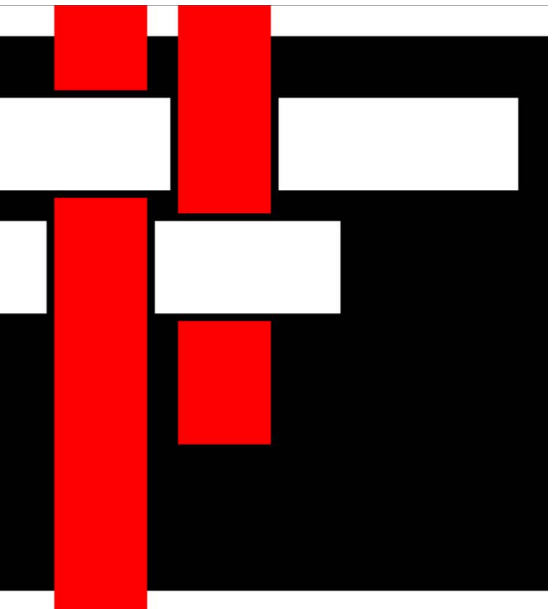
LIGHT HAZARD



ORDINARY HAZARD I



GRAPHIC SCALE: 1/8" = 1'-0"
0 2 4 8 16



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Suite 120
Cary, North Carolina 27518
Phone: (919) 318-5718
Fax: (919) 318-7518
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CONSULTING ENGINEERS
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WILMINGTON, NORTH CAROLINA 28405
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FAX: (910) 452-4211
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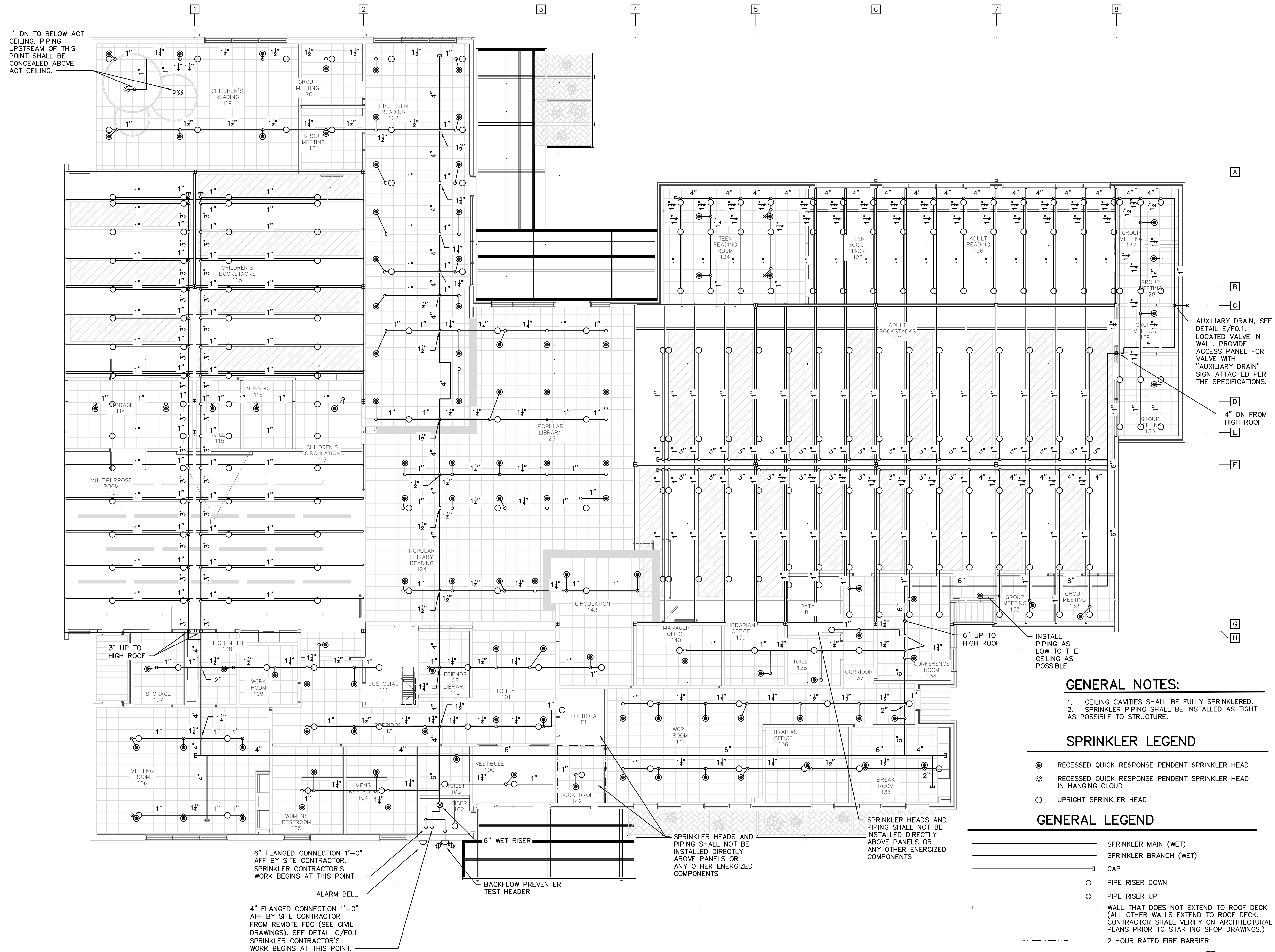
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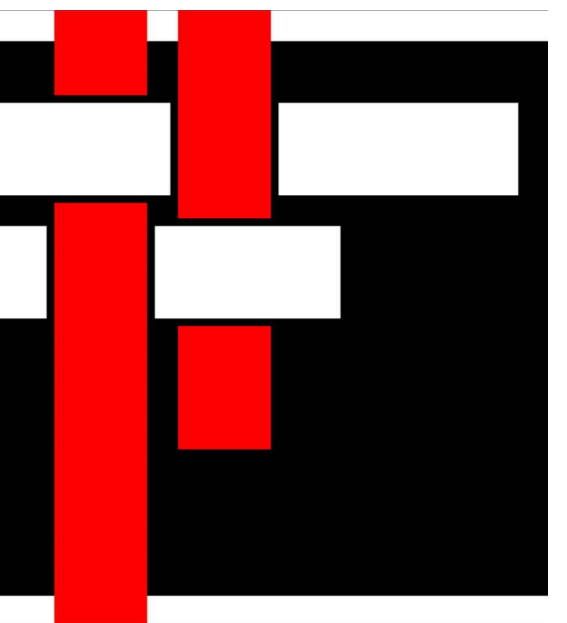
FIRE PROTECTION
HAZARD PLAN

Rev.	Date	Notes

F1.0



1 FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"



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Suite 120
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**FIRE PROTECTION
PLAN**

Rev.	Date	Notes

F2.0