

TURPENTINE DESIGN

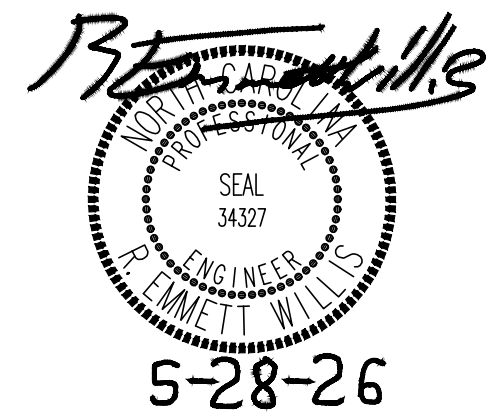
1007 Procure Street
Fuquay-Varina, NC 27526

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PHASE PERMIT SET
DATE 05.29.2026
TD PROJECT # 25-009

SCO ID # N/A

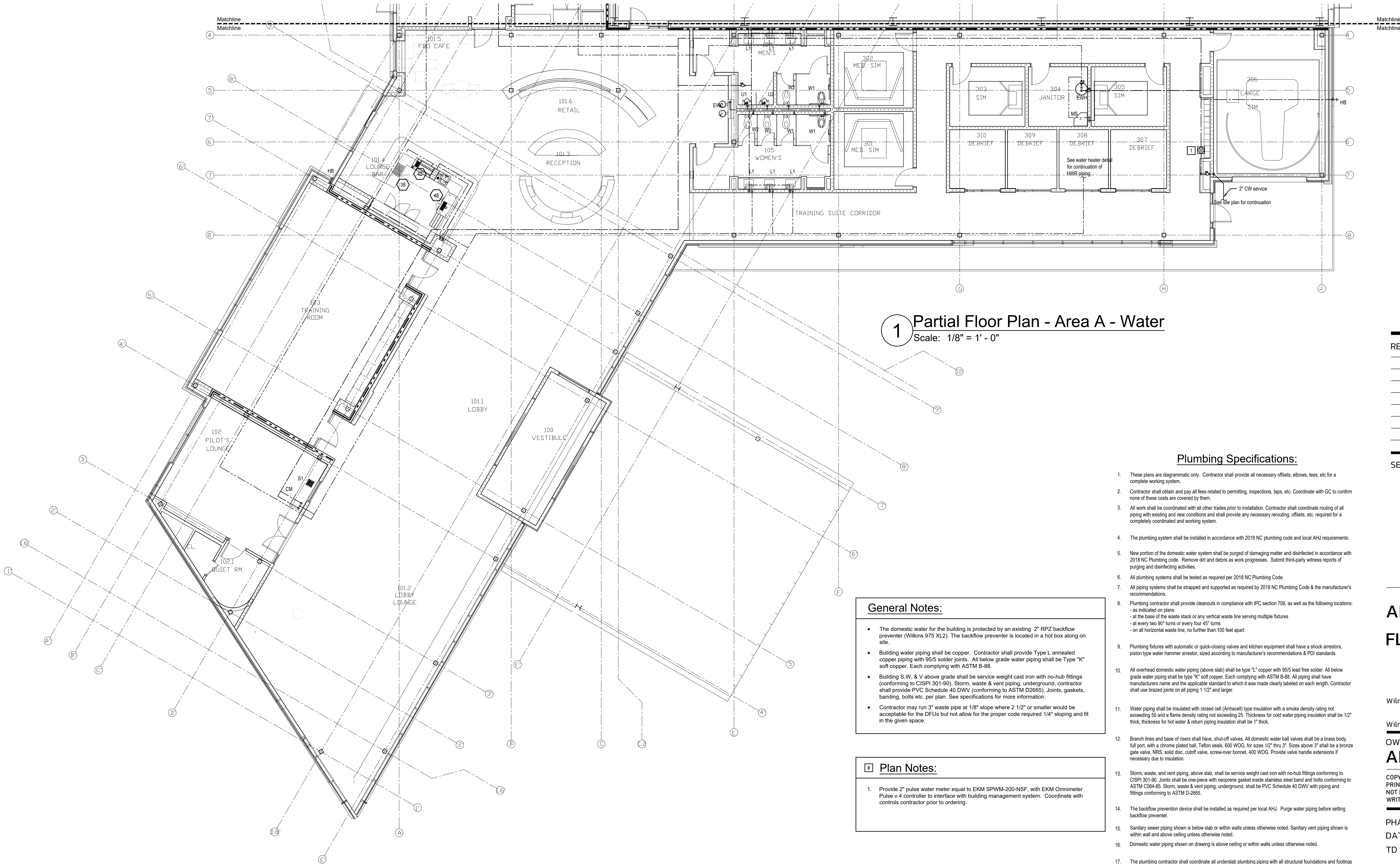
DRAWING TITLE PARTIAL FLOOR PLAN - AREA A - WATER

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DRAWING NUMBER

P-111A

These drawings will be at the scale indicated when plotted at 24" x 36"



1 Partial Floor Plan - Area A - Water Scale: 1/8" = 1' - 0"

Plumbing Specifications:

- These plans are diagrammatic only. Contractor shall provide all necessary offsets, elbows, tees, etc for a complete working system.
- Contractor shall obtain and pay all fees related to permitting, inspections, taps, etc. Coordinate with GC to confirm none of these costs are covered by them.
- All work shall be coordinated with all other trades prior to installation. Contractor shall coordinate routing of all piping with existing and new conditions and shall provide any necessary rerouting, offsets, etc. required for a completely coordinated and working system.
- The plumbing system shall be installed in accordance with 2018 NC plumbing code and local AHJ requirements.
- New portion of the domestic water system shall be purged of damaging matter and disinfected in accordance with 2018 NC Plumbing code. Remove dirt and debris as work progresses. Submit third-party witness reports of purging and disinfecting activities.
- All plumbing systems shall be tested as required per 2018 NC Plumbing Code.
- All piping systems shall be strapped and supported as required by 2018 NC Plumbing Code & the manufacturer's recommendations.
- Plumbing contractor shall provide cleanouts in compliance with IPC section 708, as well as the following locations:
 - as indicated on plans
 - at the base of the waste stack or any vertical waste line serving multiple fixtures
 - at every two 90° turns or every four 45° turns
 - on all horizontal waste line, no further than 100 feet apart
- Plumbing fixtures with automatic or quick-closing valves and kitchen equipment shall have a shock arrestors, piston type water hammer arrestor, sized according to manufacturer's recommendations & PDI standards.
- All overhead domestic water piping (above slab) shall be type "L" copper with 95/5 lead free solder. All below grade water piping shall be type "K" soft copper. Each complying with ASTM B-88. All piping shall have manufacturers name and the applicable standard to which it was made clearly labeled on each length. Contractor shall use brazed joints on all piping 1 1/2" and larger.
- Water piping shall be insulated with closed cell (Armacel) type insulation with a smoke density rating not exceeding 50 and a flame density rating not exceeding 25. Thickness for cold water piping insulation shall be 1/2" thick, thickness for hot water & return piping insulation shall be 1" thick.
- Branch lines and base of risers shall have, shut-off valves. All domestic water ball valves shall be a brass body, full port, with a chrome plated ball. Teflon seals, 600 WOG, for sizes 1/2" thru 3". Sizes above 3" shall be a bronze gate valve, NRS, solid disc, cutoff valve, screw-over bonnet, 400 WOG. Provide valve handle extensions if necessary due to insulation.
- Storm, waste, and vent piping, above slab, shall be service weight cast iron with no-hub fittings conforming to CISPI 301-90. Joints shall be one-piece with neoprene gasket inside stainless steel band and bolts conforming to ASTM C654-85. Storm, waste & vent piping, underground, shall be PVC Schedule 40 DWV with piping and fittings conforming to ASTM D-2665.
- The backflow prevention device shall be installed as required per local AHJ. Purge water piping before setting backflow preventer.
- Sanitary sewer piping shown is below slab or within walls unless otherwise noted. Sanitary vent piping shown is within wall and above ceiling unless otherwise noted.
- Domestic water piping shown on drawing is above ceiling or within walls unless otherwise noted.
- The plumbing contractor shall coordinate all underslab plumbing piping with all structural foundations and footings and all underslab plumbing piping elevation inverts with site utility.
- All piping penetrations thru new or existing walls and/or floors shall be sealed to equal the rating of the new or existing wall or floor.
- All vent thru the roof penetrations shall be coordinated with the general contractor. Plumbing contractor shall provide all flashing material required for vent thru roof. Vents thru the roof shall be located a minimum of 10'-0" away from all fresh air intakes.
- Contractor shall coordinate any plumbing work requiring shutdown with the owner 72 hours in advance. If other users will be affected, coordinate with owner/building management at the beginning of the project to find a workable solution.
- Plumbing contractor shall provide shop drawings to the engineer for review and approval prior to beginning work.
- Double Y fitting shall not be used in the horizontal plane.

General Notes:

- The domestic water for the building is protected by an existing 2" RPZ backflow preventer (Wilkins 975 XL2). The backflow preventer is located in a hot box along on site.
- Building water piping shall be copper. Contractor shall provide Type L annealed copper piping with 95/5 solder joints. All below grade water piping shall be Type "K" soft copper. Each complying with ASTM B-88.
- Building S.W. & V above grade shall be service weight cast iron with no-hub fittings (conforming to CISPI 301-90). Storm, waste & vent piping, underground, contractor shall provide PVC Schedule 40 DWV (conforming to ASTM D2665). Joints, gaskets, banding, bolts etc. per plan. See specifications for more information.
- Contractor may run 3" waste pipe at 1/8" slope where 2 1/2" or smaller would be acceptable for the DFUs but not allow for the proper code required 1/4" sloping and fit in the given space.

Plan Notes:

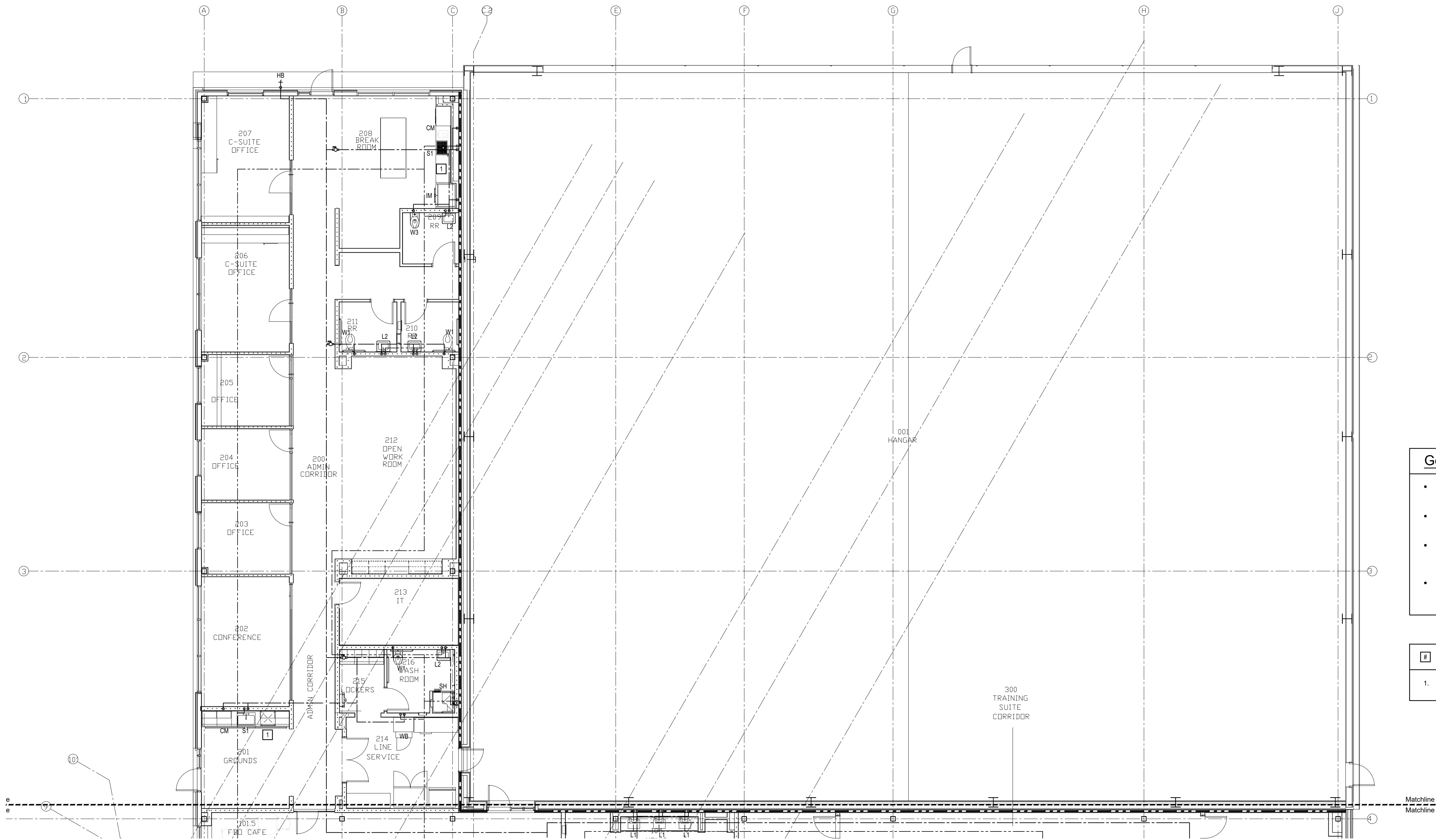
- Provide 2" pulse water meter equal to EKM SPWM-200-NSF, with EKM Omnimeter Pulse v.4 controller to interface with building management system. Coordinate with controls contractor prior to ordering.

Kitchen Equipment, Fixtures, & Accessories						
Tag	Description	Equipment/Fixture Details	Furnished By:	Water Line & Connection Size		
				CW	HW	W
38	Glass Washer	1/2" hot water located at 16" AFF. 1 1/2" indirect drain to floor sink.	Tenant	-	1/2"	1 1/2"
42	Taffer Command Station	1/2" cold water and 1/2" hot water located at 16" AFF. 1 1/2" indirect drain to floor sink.	Tenant	1/2"	1/2"	1 1/2"
48	Draft Refrigerator	1 1/2" indirect drain to floor sink.	Tenant	-	-	1 1/2"

Wall Ratings and Types Legend

See architectural sheets for more information on ratings and additional rated constructions including structure where applicable. Protect all rated constructions as required.

New Wall being Constructed	
New 1/2 Height Wall being Constructed	
Wall to Deck	
One Hour Fire Barrier	
Two Hour Fire Barrier	

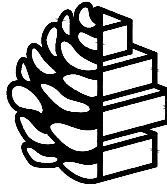


1 Partial Floor Plan - Area B - Water
Scale: 1/8" = 1' - 0"

Plumbing Legend and Abbreviations	
	Sanitary Sewer Piping "W"
	Existing Sanitary Sewer Piping "EX W"
	Vent Piping "V"
	Existing Vent Piping "EX V"
	Cold Water Piping "CW"
	Hot Water Piping "HW"
	Hot Water Return Piping "HWR"
	Roof Drain / Storm Piping
	Check Valve
	Ball Valve
	Pressure Reducing Valve "PRV"
	Gate Valve "GV"
	Tee Turns Up
	Tee from Below
	El Turns Up
	El Turns Down
	Capped Line
	Connect to Existing
	Electric Water Heater
	Vent Through Roof
	Air Admittance Valve
	Primary Roof Drain
	Secondary Roof Drain
	EWH
	VTR
	AAV
	RD
	SRD

- General Notes:**
- The domestic water for the building is protected by an existing 2" RPZ backflow preventer (Wilkins 975 XL2). The backflow preventer is located in a hot box along on site.
 - Building water piping shall be copper. Contractor shall provide Type L annealed copper piping with 95/5 solder joints. All below grade water piping shall be Type "K" soft copper. Each complying with ASTM B-88.
 - Building S.W. & V above grade shall be service weight cast iron with no-hub fittings (conforming to CISPI 301-90). Storm, waste & vent piping, underground, contractor shall provide PVC Schedule 40 DWV (conforming to ASTM D2685). Joints, gaskets, banding, bolts etc. per plan. See specifications for more information.
 - Contractor may run 3" waste pipe at 1/8" slope where 2 1/2" or smaller would be acceptable for the DFUs but not allow for the proper code required 1/4" sloping and fit in the given space.

- Plan Notes:**
- Connect to dishwasher.



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SEAL 34327

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- AREA B - WATER**

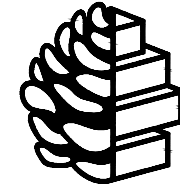
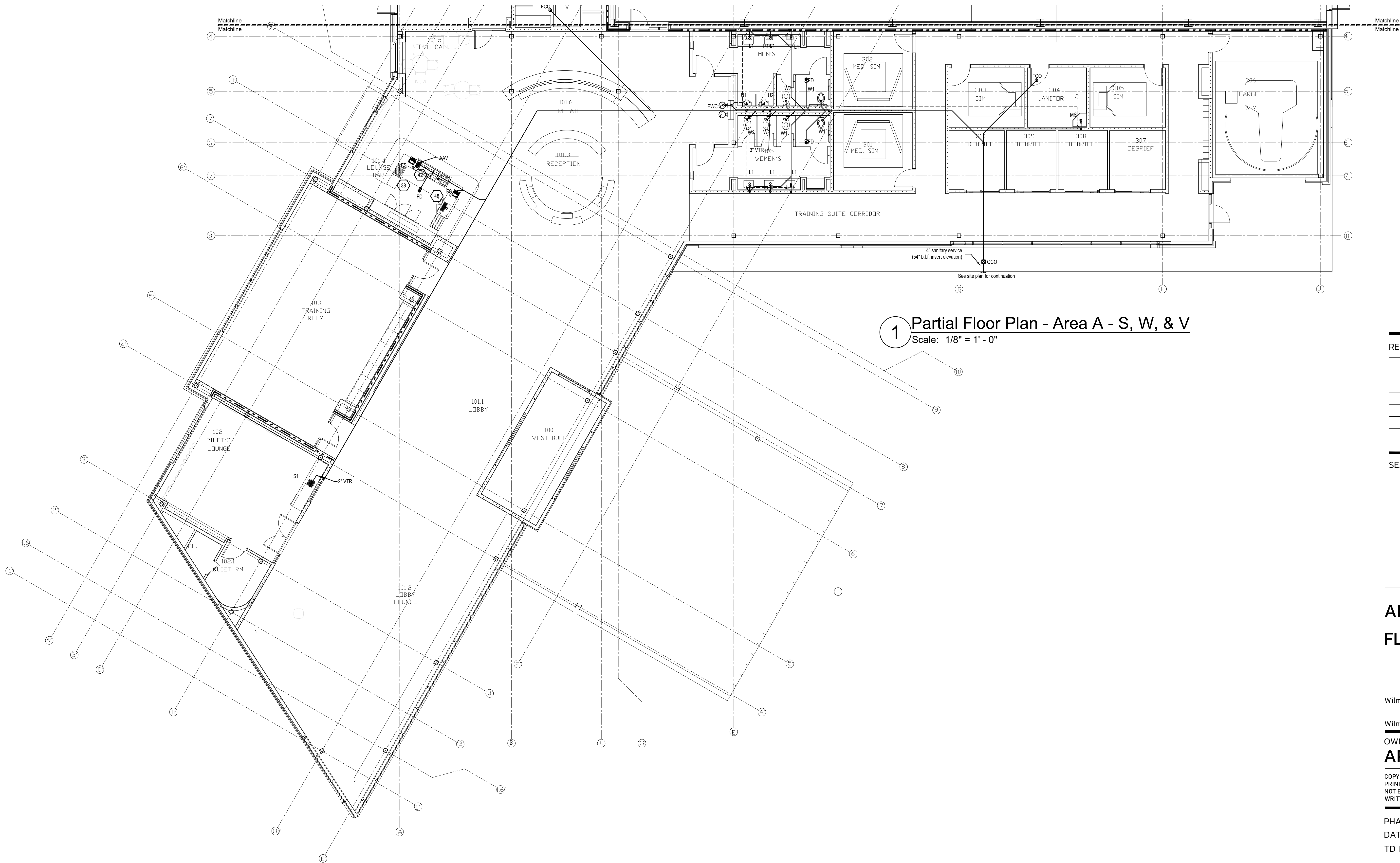
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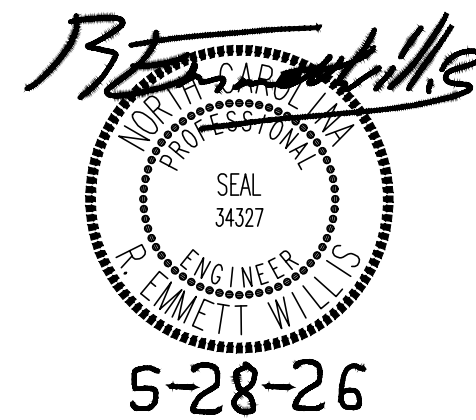
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DRAWING TITLE
**PARTIAL FLOOR PLAN
- AREA A - S, W, & V**

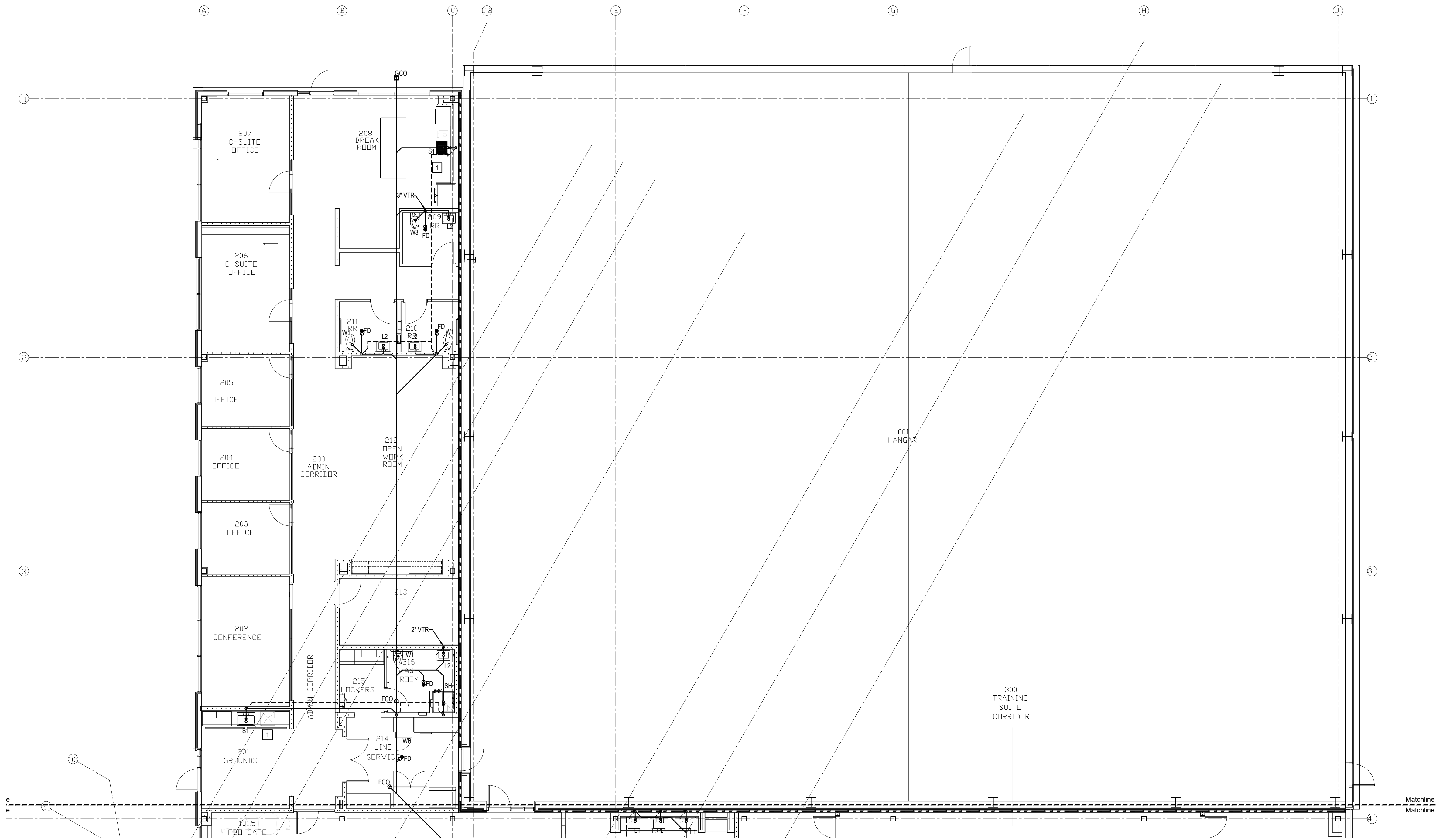
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New 1/2 Height Wall being Constructed	—————
Wall to Deck	—————
One Hour Fire Barrier	—————
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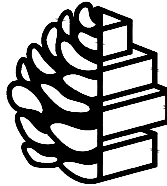
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1 Partial Floor Plan - Area B - S, W, & V
Scale: 1/8" = 1' - 0"

- General Notes:**
- The domestic water for the building is protected by an existing 2" RPZ backflow preventer (Wilkins 975 XL2). The backflow preventer is located in a hot box along on site.
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 - Building S, W, & V above grade shall be service weight cast iron with no-hub fittings (conforming to CISPI 301-00). Storm, waste & vent piping, underground, contractor shall provide PVC Schedule 40 DWV (conforming to ASTM D2665). Joints, gaskets, banding, bolts etc. per plan. See specifications for more information.
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- Plan Notes:**
- Connect to dishwasher.



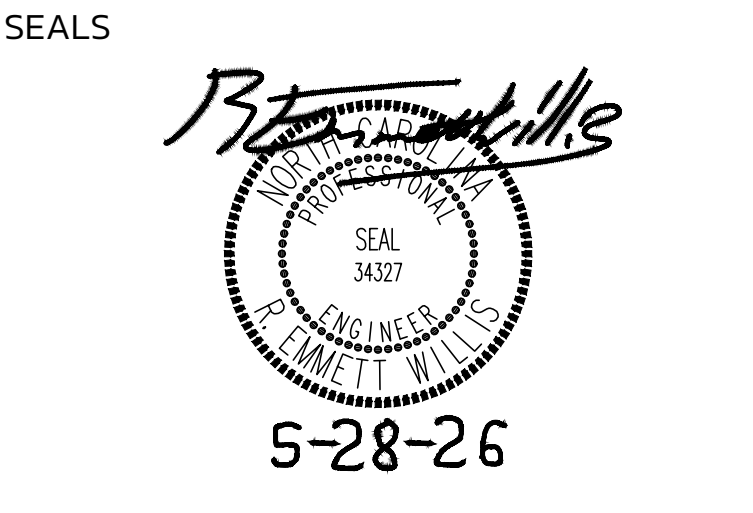
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PARTIAL FLOOR PLAN - AREA B - S, W, & V

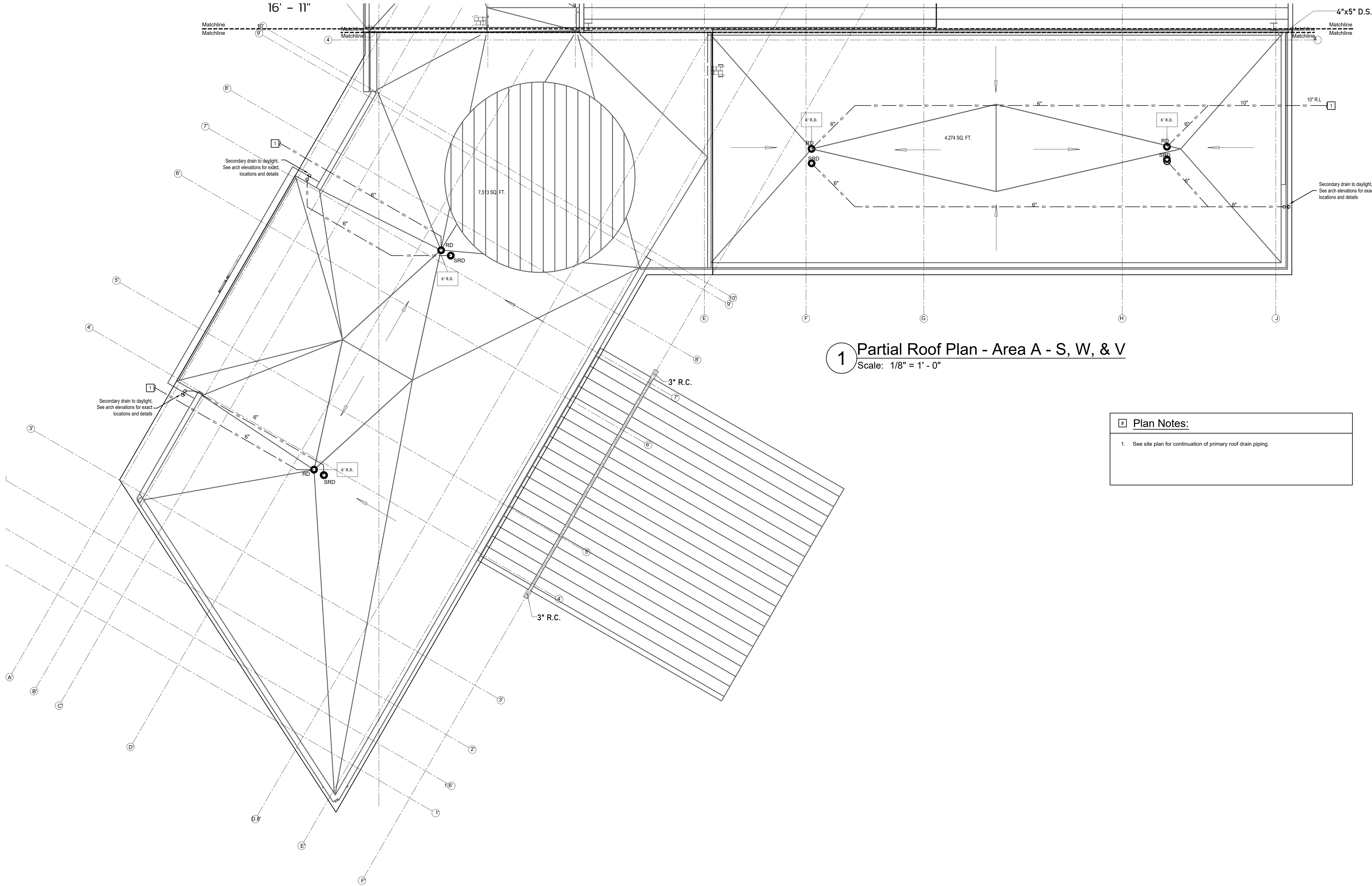
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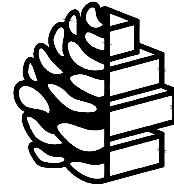
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1 Partial Roof Plan - Area A - S, W, & V
Scale: 1/8" = 1' - 0"

Plan Notes:

1. See site plan for continuation of primary roof drain piping.



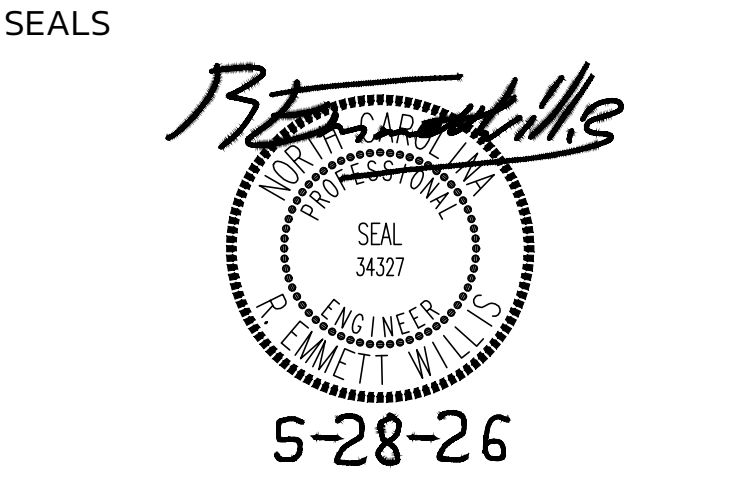
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**PARTIAL ROOF PLAN
- AREA A - ROOF**

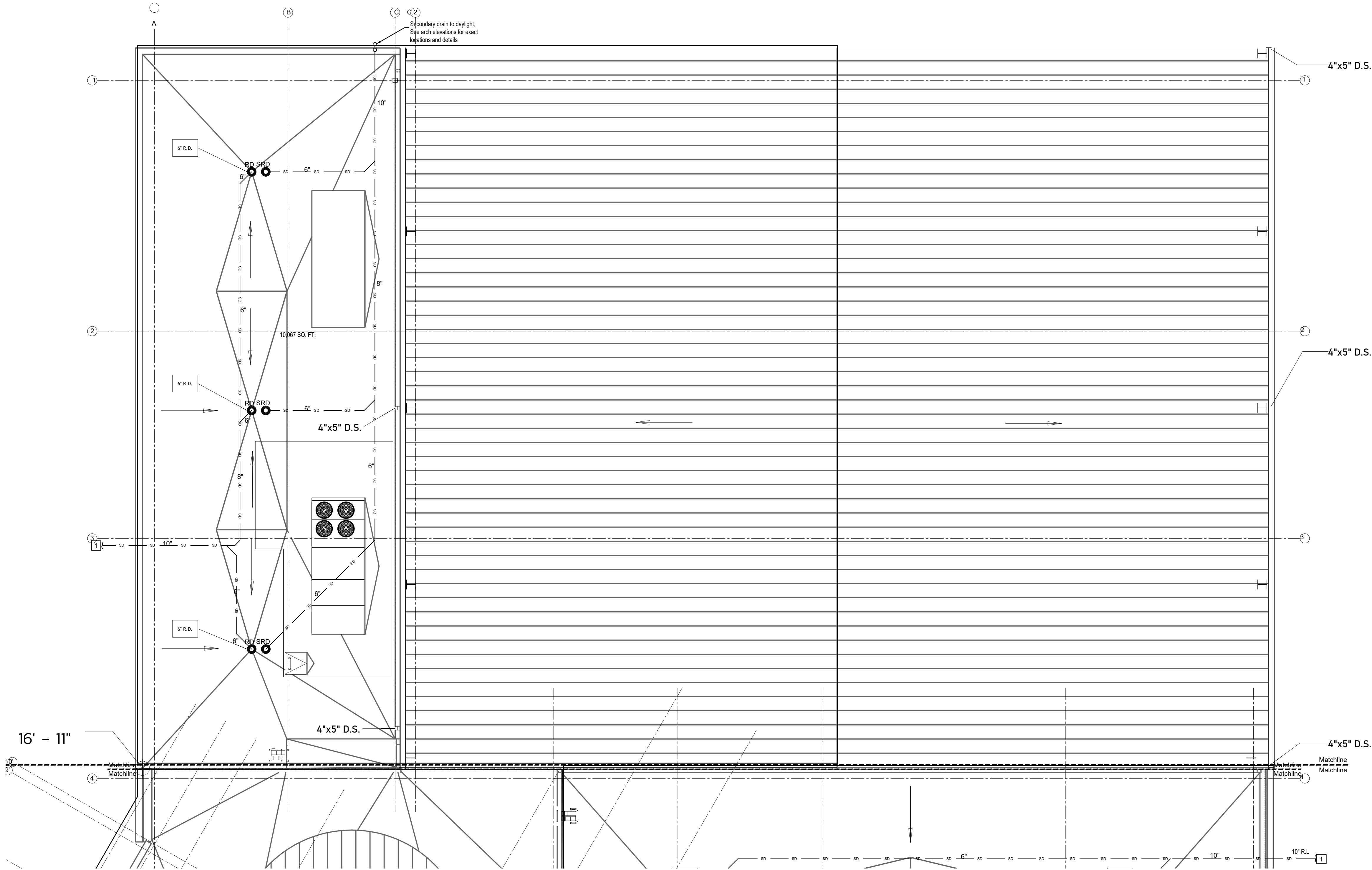
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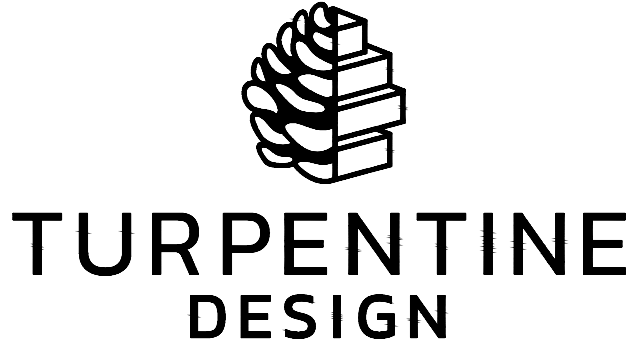
P-113A

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1 Partial Roof Plan - Area B - S, W, & V
Scale: 1/8" = 1' - 0"

Plan Notes:
1. See site plan for continuation of primary roof drain piping.

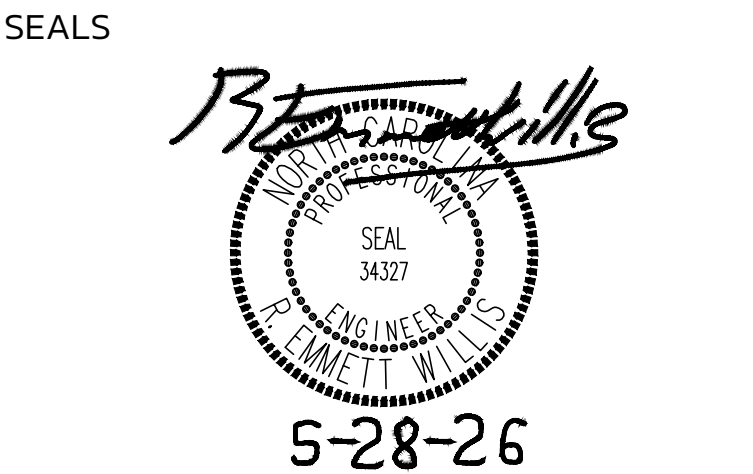


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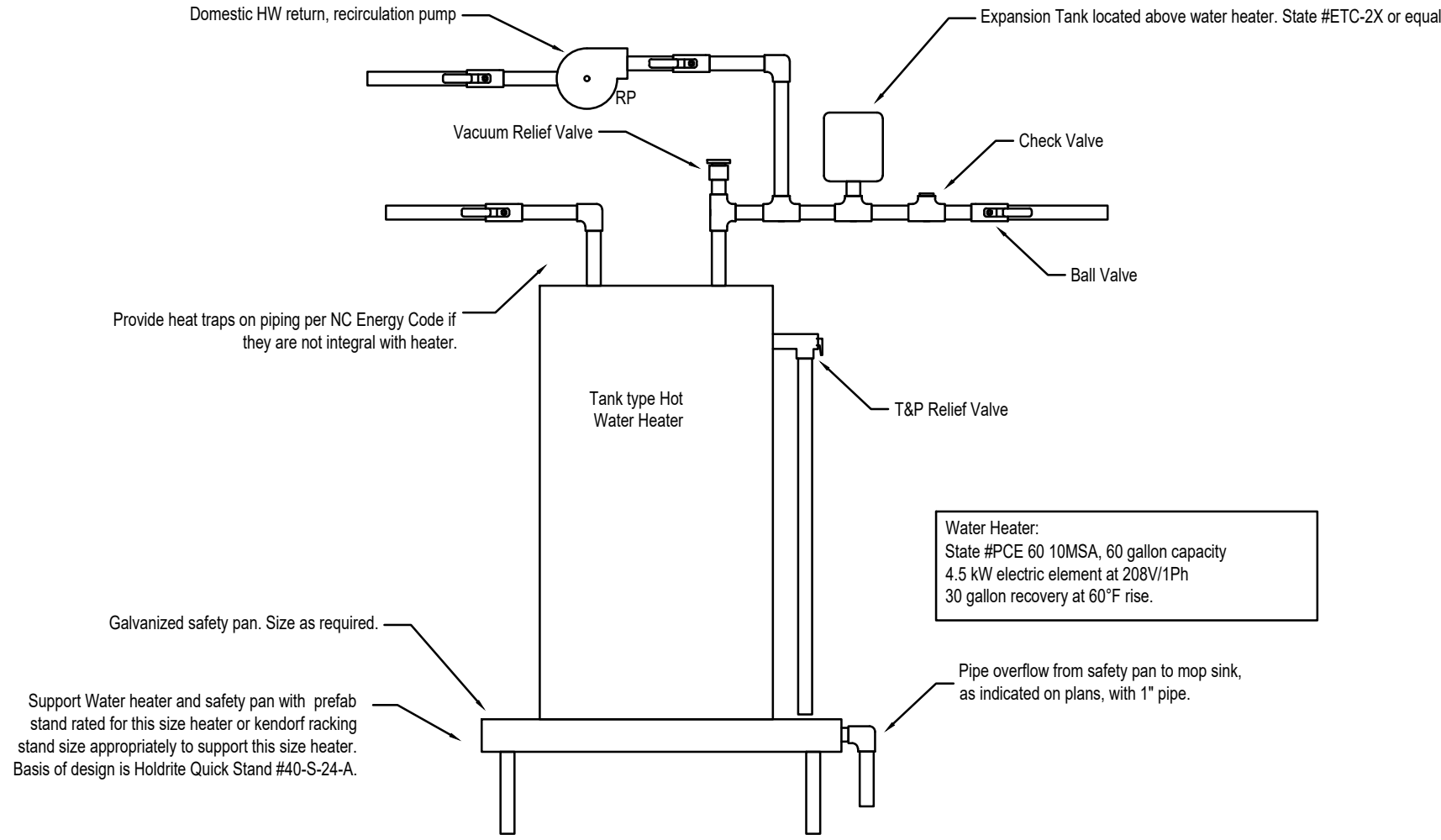
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- AREA B - ROOF**

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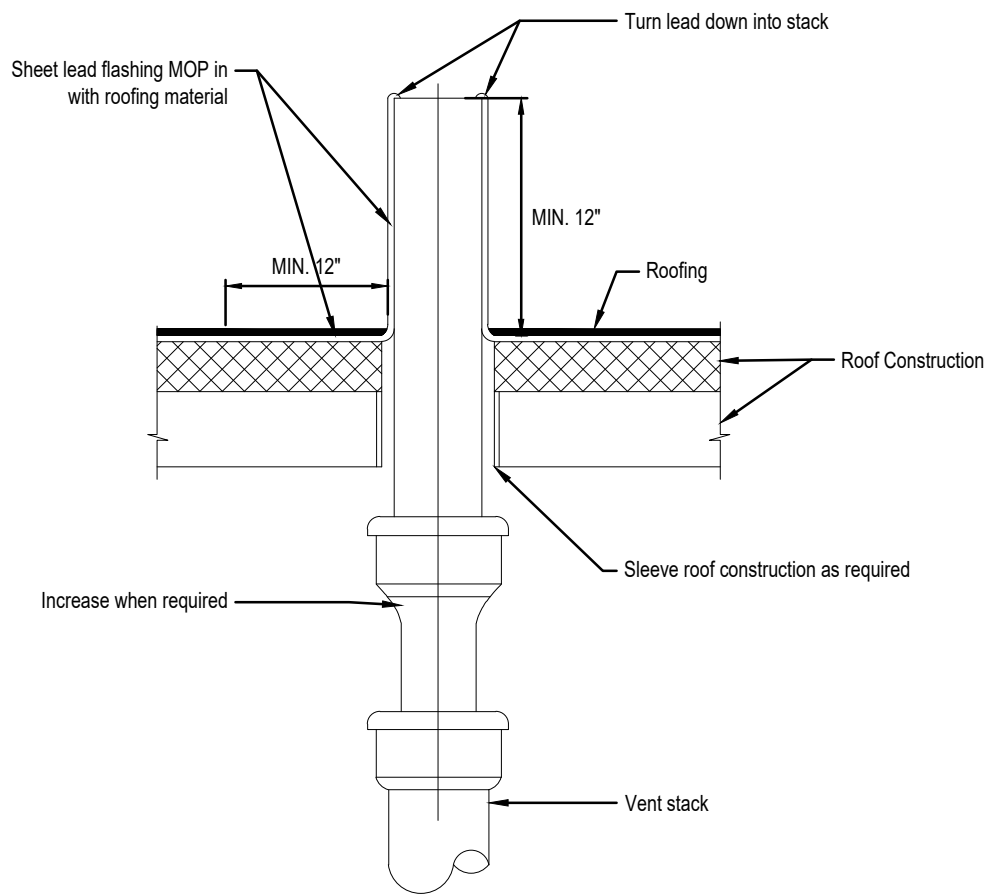
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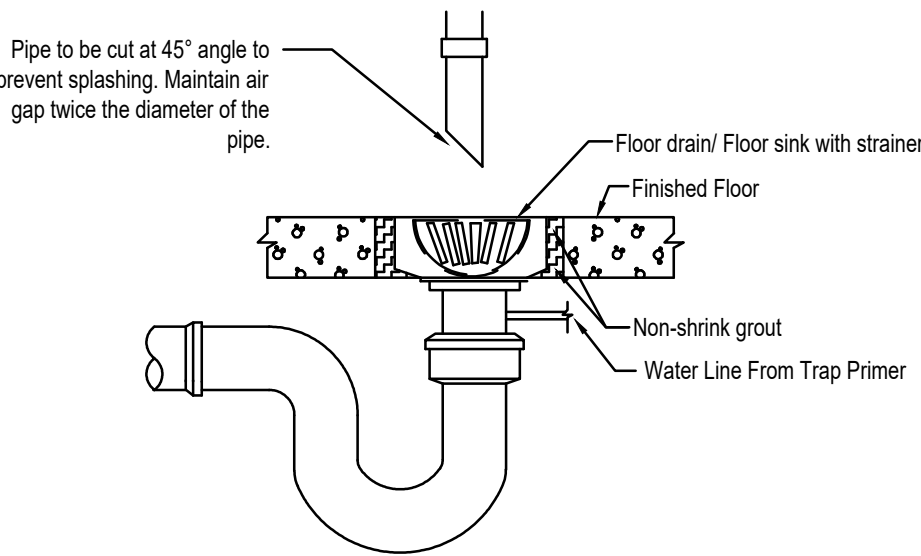
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1 Water Heater Mounting Detail
Scale: None



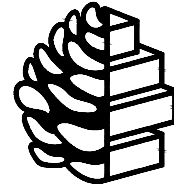
2 Vent Through Flat Roof Detail
Scale: None



3 Floor Drain/Sink Detail
Scale: None

Plumbing Fixtures, Equipment, & Accessories						
Tag	Description		Fixture Specification	Water Line & Connection Size		
				CW	HW	W
W1	Water Closet Floor Mounted ADA		<u>Toilet:</u> Kohler Highline Ultra #K-96057 white vitreous china water closet with elongated bowl, 1 1/2" top spud, siphon jet flushing, 12" rough-in 16 1/2" high to the seat with 2 bolt caps. <u>Seat:</u> Kohler Lustra #K-4666-SC extra heavy duty white elongated with open front seat <u>Valve:</u> Sloan CX Series concealed sensor flushometer- hardwired with 1.6 GPF.	1"	-	4"
W2	Water Closet Floor Mounted		<u>Toilet:</u> Kohler Wellcome Ultra #K-96053 white vitreous china water closet with elongated bowl, 1 1/2" top spud, siphon jet flushing, 12" rough-in 15" high to the seat with 2 bolt caps. <u>Seat:</u> Kohler Lustra #K-4666-SC extra heavy duty white elongated with open front seat <u>Valve:</u> Sloan CX Series concealed sensor flushometer- hardwired with 1.6 GPF.	1"	-	4"
W3	Water Closet Wall Mounted ADA		<u>Toilet:</u> Toto Neorest #MS8341CUMFG dual flush smart bidet toilet, CEFIONTECT ceramic glaze with elongated bowl, tank type flushing, 12" rough-in, 17" high to the seat with 2 bolt caps. <u>Seat:</u> Included with fixture	1/2"	-	4"
L1	Undermount Lavatory Single Bowl, Center Mount		<u>Lavatory Basin:</u> Solid surface counter by others. <u>Faucet:</u> Bradley Washbar #WB-1 sensor faucet, dryer, soap combo, 0.5 GPM flow rate. Provide transformer and any necessary accessories (IE extension cables) <u>Mixing Valve:</u> Watts LFUSG-8 thermostatic mixing valve at each lav. ASSE 1070 approved. <u>Trap & Suppliers:</u> McGuire #8902, 17 gauge 1 1/4" x 1 1/2" P-trap and nipple. McGuire #2165 angle supply stops. Mount P-trap such that ADA clearance requirements are maintained. <u>Accessories:</u> Truebro 82192 Lav Guard 2 molded insulation # 101-EZ, 3 piece interlocking trap assembly and 2 piece interlocking hot water angle valve assembly, with nylon type fasteners.	1/2"	1/2"	1 1/2"
L2	Lavatory Wall Hung ADA		<u>Lavatory Basin:</u> Kohler Greenwich #K-2031, Vitreous china, top of rim at 34" AFF for ADA. <u>Faucet:</u> Sloan Optima ETF-410, hardwired automatic sensor faucet, 4" centerset faucet, 0.5 GPM flow rate. Provide transformer Sloan #EAF-37 and any necessary accessories (IE extension cables) <u>Mixing Valve:</u> Watts LFUSG-8 thermostatic mixing valve at each Faucet. ASSE 1070 approved. <u>Trap & Suppliers:</u> McGuire #8902, 17 gauge 1 1/4" x 1 1/2" P-trap and nipple. McGuire #LFB02 angle supply stops. Mount P-trap such that ADA clearance requirements are maintained. <u>Accessories:</u> Truebro 82192 Lav Guard 2 molded insulation # 101-EZ, 3 piece interlocking trap assembly and 2 piece interlocking hot water angle valve assembly, with nylon type fasteners.	1/2"	1/2"	2"
S1	Break Sink, Single Bowl		<u>Sink Basin:</u> ElkayCrosstown #ECTSRAD25226TBG, 18 ga Stainless steel, undermount bowl. Dimensions 25"x22"x6" deep, 1 hole. <u>Faucet:</u> Moen Align #7565, Stainless, 1 hole faucet, 1.8 GPM flow rate. <u>Trap & Suppliers:</u> McGuire #8902, 17 gauge 1 1/4" x 1 1/2" P-trap and nipple. McGuire #LFB02angle supply stops. Mount P-trap such that ADA clearance requirements are maintained. <u>Accessories:</u> Truebro 82192 Lav Guard 2 molded insulation # 101-EZ, 3 piece interlocking trap assembly and 2 piece interlocking hot water angle valve assembly, with nylon type fasteners.	1/2"	1/2"	1 1/2"
U1	Urinal Wall Mounted ADA		<u>Urinal:</u> Kohler Dexter #5453-ET-Q, 3/4" top spud, siphon jet flushing, Mount urinal 17" AFF for ADA. <u>Valve:</u> Sloan CX Series concealed sensor flushometer- hardwired with 0.5 GPF.	3/4"	-	2"
U2	Urinal Wall Mounted		<u>Urinal:</u> Kohler Dexter #5452-ET-Q, 3/4" top spud, siphon jet flushing, Mount urinal 24 AFF. <u>Valve:</u> Sloan CX Series concealed sensor flushometer- hardwired with 0.5 GPF.	3/4"	-	2"
EWC	Electric Water Cooler & Bottle filler		Elkay #LZSTL8WSAP-PF dual level, ADA, wall mounted water cooler and and bottle filler; hermetically sealed and air cooled refrigeration unit. Electric push buttons on front and side with vinyl covered steel skirt and stainless steel hood receptor. Mount spout on lower side at 36" AFF.	1/2"	-	1 1/2"
WCO	Wall Clean Out		Zurn #Z1446 wall cleanout tee, dura-coated cast iron body, gas and watertight ABS tapered thread plug, and round, smooth stainless steel wall access cover with securing screw.	-	-	see plans
FCO	Floor Clean Out		Zurn #Z1400 floor cleanout, dura-coated cast iron body, gas and watertight ABS tapered thread plug, and round secured top with bronze finish.	-	-	see plans
TP	Trap Primer		Watts #200 Flow through trap primer	1/2"	-	-
SA	Shock Absorber		Watts series #15M2 water hammer arrestor, sized to match associated line. Shock absorber shall meet all requirements ASSE 1010, ANSI A1 12.261M as well as the 2018 NCSCB and the 2018 NCSPC, section 604.9	see plans	see plans	-
VB	Vacuum Breaker		Watts #LF7 vacuum breaker, sized to match associated line. Vacuum breaker shall meet all requirements ASSE 1024, as well as the 2016 NCSCB.	-	-	-
DC	Dual Check Backflow		Watts #SD-3 backflow preventer, sized to match associated line. Vacuum breaker shall meet all requirements ASSE 1022, as well as the 2018 NCSCB and the 2018 NCSPC, section 608.16.1.	-	-	-
IM	Ice Maker Box		Oatey #39152 square, 1/4 turn, copper, hammer, low lead, water outlet box. Wall mount at 24" AFF, confirm height with architect. Plumbing to provide necessary lines and fitting for connection to equipment.	1/2"	-	-
CM	Coffee Maker Box		Oatey #39152 square, 1/4 turn, copper, hammer, low lead, water outlet box. Mount above counter behind coffee maker, confirm height with architect. Plumbing to provide necessary lines and fitting for connection to equipment.	1/2"	-	-
FWH	Concealed Freezeless Wall Hydrant		Woodford #B67 freezeless wall hydrant in flush mounted enclosure. 3/4" Brass hose threaded nozzle. Provide tamper proof vacuum breaker, Nidei #50H or equal.	3/4"	-	-
RD	Roof Drain		Zurn #Z121 roofdrain. Dura-Coated cast iron body with combination membrane flashing clamp/gravel guard and low silhouette Poly-Dome.	-	-	4" see plans
SRD	Secondary Roof Drain		Zurn #Z121-89 roof drain w/ 2" external water dam. Dura-Coated cast iron body with combination membrane flashing clamp/gravel guard and low silhouette Poly-Dome.	-	-	4" see plans
MS	Mop Sink		<u>Mop Sink:</u> Flat #TSBC1610 terrazzo mop service basin, 24" x 24" x 12" tall sides. <u>Faucet:</u> Chicago faucets #44-897SRXKCCP with integral vacuum breaker, lever type ceramic 1/4 turn handles, and adjustable arms. Polished chrome finish. Faucet to have 3/4" hose thread on spout.	1/2"	1/2"	3"
RP	Recirculation Pump		Taco #8007e High Efficiency Circulator with stainless steel lead free casing, aquastat and timer	-	1/2"	-
SH	Shower ADA		<u>Shower:</u> Tile by others. <u>Valve:</u> Delta #1171H325 single handle, with pressure balancing shower valve and diverter. Fixed shower head as well as handheld shower head mounted on grab bar. 1.5 GPM shower heads. Provide other necessary ADA accessories. <u>Drain:</u> Trench drain. See spec below	1/2"	1/2"	2"
WB	Washer Box		Oatey #38540 washing machine supply box with 1/4 turn, copper, hammer, low lead, valves. Wall mounted 40", confirm height with architect. Plumbing to provide necessary lines and fitting for connection to equipment.	1/2"	1/2"	3"

The intention of the depicted images above are to show the general appearance of the fixtures being specified. Exact representation is not necessarily shown nor are accessories for models or some variation of the model. The fixture specification should take precedent over the photo.



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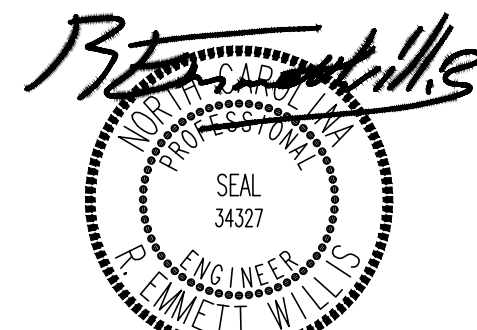
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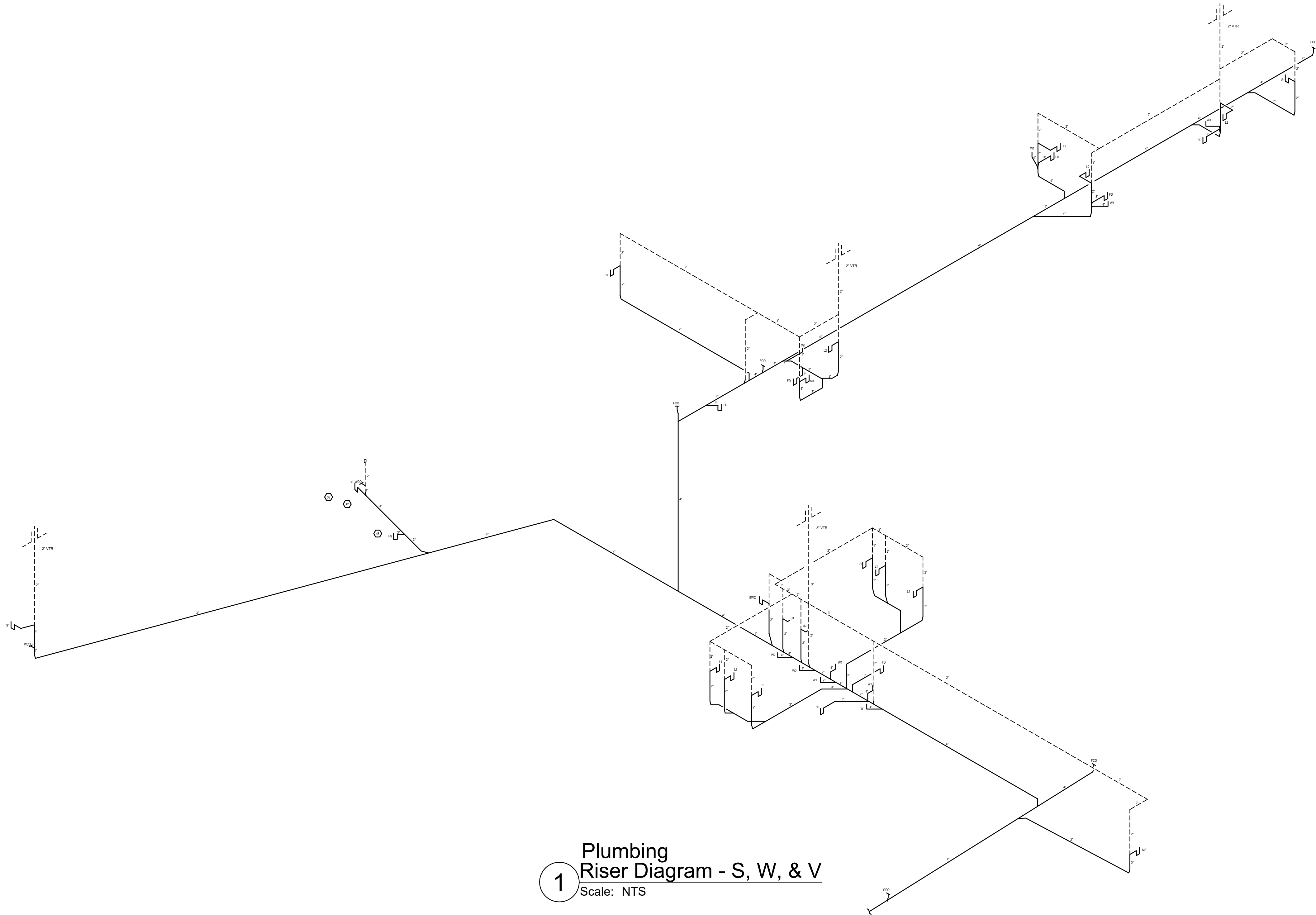
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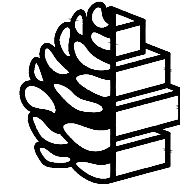
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1 Plumbing
Riser Diagram - S, W, & V
Scale: NTS



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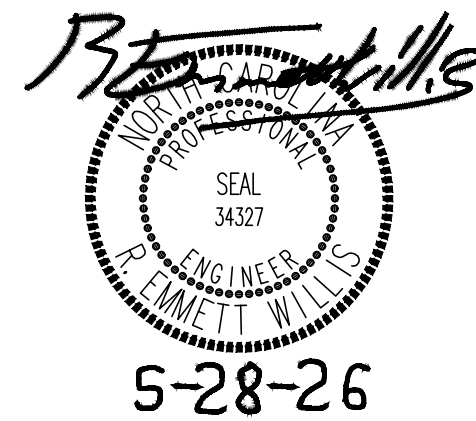
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