

**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: Jamestown Whom Miller Park Toilet
Address: 101 Guilford Road, Jamestown NC
Owner/Authorized Agent: Matthew Johnson Phone # (336) 454-7386 E-Mail: mjphson@jamestown-nc.gov
Owned By: City/County Private State
Code Enforcement Jurisdiction: City County Guilford State

CONTACT: William R. Burgin

DISCIPLINE	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Ramsay Burgin Smith Architects	William R. Burgin	3512	(704) 432-3121	wrb@rbsarch.com
Civil	NA	NA	NA	NA	NA
Electrical	Design Engineering Inc.	Dawn S. Smith	11207	(336) 324-0100	dsmith@desocinc.net
Fire Alarm	NA	NA	NA	NA	NA
Plumbing	Colins Engineering	Sam Colins	31024	(704) 638-6337	scollins@colinseng.com
Mechanical	Colins Engineering	Sam Colins	31024	(704) 638-6337	scollins@colinseng.com
Sprinkler-Standpipe	NA	NA	NA	NA	NA
Structural	Ramsay Burgin Smith Architects	Elizabeth Zabel	027324	(704) 633-3121	liz@rbsarch.com
Retaining Walls >5' High	NA	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA

2018 NC BUILDING CODE: New Building Addition 1st Time Alterations
 Shell/Core* Phased Construction*

*Contact the local inspection jurisdiction for possible additional procedures and requirements.
2018 NC EXISTING BUILDING CODE: Prescriptive Alteration Level I Historic Property
(check all that apply) Repair Alteration Level II Change of Use
 Chapter 14 Alteration Level III

CONSTRUCTED: (date) _____ **CURRENT OCCUPANCY(S)** (Ch. 3): _____
RENOVATED: (date) _____ **PROPOSED OCCUPANCY(S)** (Ch. 3): _____
OCCUPANCY CATEGORY (Table 1604.5): **Current:** _____ **Proposed:** _____

BASIC BUILDING DATA
Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B
Sprinklers: No Partial NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Class I II Wet Dry
Primary Fire District: No Yes **Flood Hazard Area:** No Yes
Special Inspections Required: Yes No If special inspections are required, contact the local inspection jurisdiction for additional procedures and requirements.

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
2 nd Floor			
3 rd Floor			
Mezzanine			
1 st Floor		748	
Basement			
TOTAL		748	

ALLOWABLE AREA
Primary Occupancy Classification(s):
Assembly A-1 A-2 A-3 A-4 A-5
Business
Educational
Factory F-1 Moderate F-2 Low
Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
Institutional I-1 I-2 I-3 I-4 I-5
Mercantile R-1 R-2 R-3 R-4
Storage S-1 Moderate S-2 Low High-piled
Utility and Miscellaneous Parking Garage Open Enclosed Repair Garage

Accessory Occupancy Classification(s):
Incidental Uses (Table 509): Non-Separated Use (508.3) Separated Use (508.4) See below for area calculations for each story; the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.
$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$\frac{\text{Actual Area of Occupancy C}}{\text{Allowable Area of Occupancy C}} + \dots \leq 1.00$$

STORY	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ¹ AREA	(C) AREA FOR FRONTAGE INCREASES ^{2,3}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	Business	748	9,000	NA	NA

¹ Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
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. The maximum area of air traffic control towers must comply with Table 412.3.1.
⁵ Frontage increase is based on the unobstructed area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40	22	TABLE 504.3
Building Height in Stories (Table 504.4)	2	1	TABLE 504.4

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

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING PROVIDED	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	0					
Bearing Walls	0					
Exterior						
North						
East						
West						
South						
Interior	0					
Nonbearing Walls and Partitions	0					
Exterior walls						
North						
East						
West						
South						
Interior walls and partitions	0					
Floor Construction including supporting beams and joists	0					
Floor Ceiling Assembly	0					
Columns Supporting Floors	0					
Roof Construction, including supporting beams and joists	0					
Roof Ceiling Assembly	0					
Columns Supporting Roof	0					
Shaft Enclosures - Exit						
Shaft Enclosures - Other						
Corridor Separation	0					
Occupancy/Fire Barrier Separation						
Party Fire Wall Separation						
Smoke Barrier Separation						
Smoke Partitions						
Tenant Dwelling Unit/ Sleeping Unit Separation						
Incidental Use Separation						

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENING PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
10'			

LIFE SAFETY SYSTEM REQUIREMENTS

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

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: 101

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
 Minimum 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

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
NA							

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
TOTAL					

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

SPACE	EXIST'G	WATER CLOSETS		URINALS		LAVATORIES		SINKS	DRINKING FOUNTAINS	
		MALE	FEMALE	MALE	FEMALE	UNSEX	UNSEX		REGULAR	ACCESSIBLE
NEW	1	3	0	0	0	0	0	0	0	0
RE'D										

SPECIAL APPROVALS
Special approval: (Local Jurisdiction, Department of Insurance, OPI, DHHS, etc., describe below)

ENERGY SUMMARY
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: (If checked the remainder of this section is not applicable.)
Exempt Building: Provide code or statutory reference:
Climate Zone: 3A 4A 5A
Method of Compliance:
Energy Code Performance Prescriptive
ASHRAE 90.1 Performance Prescriptive
Other Performance (specify source)

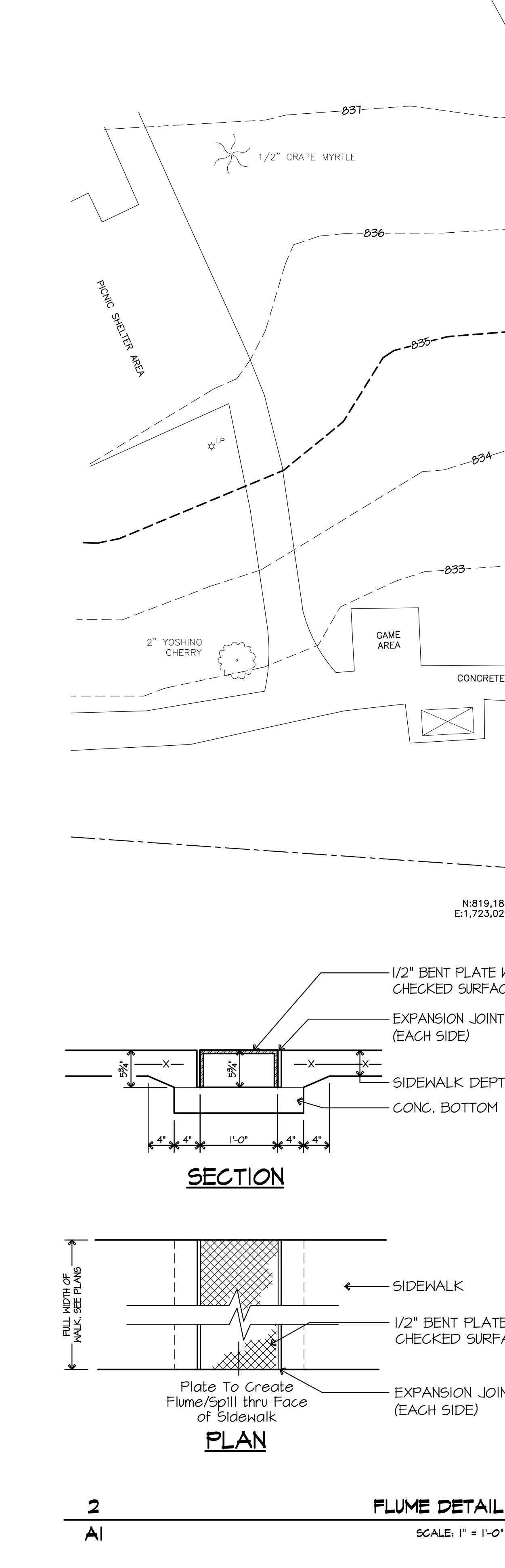
THERMAL ENVELOPE (Prescriptive method only)
Roof/ceiling Assembly (each assembly) Standing seam roof w/ underlayment, 5/8" ext. sheathing, 2x wood framing, R-42 loose fiberglass batt insulation, 5/8" gypsum board
Description of assembly: _____
U-Value of total assembly: R-42
R-Value of insulation: na
Skylights in each assembly:
U-Value of skylight: na
total square footage of skylights in each assembly: na
Exterior Walls (each assembly) Hardie Plank siding, 1/2" exterior sheathing (moisture air barrier system, taped or sealed w/ep), 2x4 wood studs, R-20 loose fiberglass batt insulation, 5/8" gypsum board.
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing)
U-Value of assembly: _____
Solar heat gain coefficient: _____
projection factor: _____
Door R-Values: _____
Exterior Walls (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing)
U-Value of assembly: _____
Solar heat gain coefficient: _____
projection factor: _____
Door R-Values: _____
Floors slab on grade 4" reinforced slab on grade, 4" gravel, 15 mil vapor barrier over compacted fill.
Description of assembly: _____
U-Value of total assembly: na
R-Value of insulation: R-15
Horizontal/vertical requirement: na
slab heated: no

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN - SEE MECHANICAL SHEETS FOR DESIGN INFORMATION
ELECTRICAL DESIGN - SEE ELECTRICAL SHEETS FOR DESIGN INFORMATION**

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

DESIGN LOADS:
Importance Factors: Wind (I_w) 1.0
Snow (I_s) 1.0
Seismic (I_e) 1.0
Live Loads: Roof 20 psf
Mezzanine NA psf
Floor 100 psf
Ground Snow Load: 15 psf
Wind Load: Basic Wind Speed 115 at mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY: A B C D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) I II III IV
Spectral Response Acceleration S_s 25.9 %g S₁ 11.5 %g
Site Classification (ASCE 7) A B C D E F
Site Source: Field Test Presumptive Historical Data
Basic structural system (check one)
 Bearing Wall Dual w/Special Moment Frame
 Building Frame Dual w/Intermediate RC or Special Steel
 Moment Frame Inverted Pendulum
Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanical, Components anchored? Yes No
LATERAL DESIGN CONTROL: Earthquake Wind
SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity 2000 psf
File size, type, and capacity _____

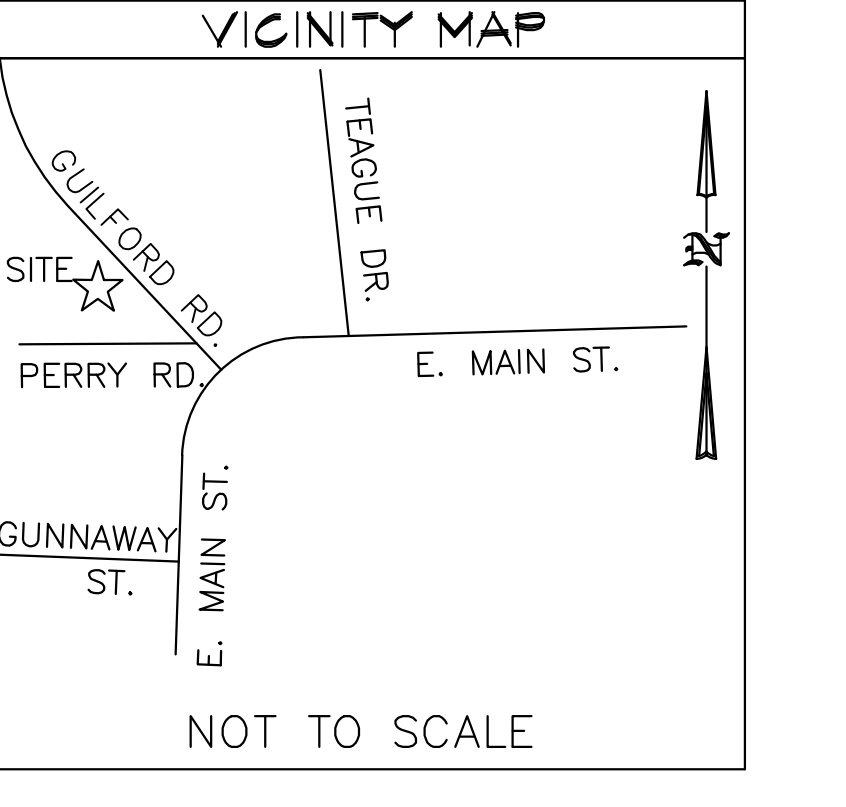


KEY TO DRAWING SYMBOLS

SECTION ELEVATION IDENTIFICATION
DETAIL NUMBER: 4
DETAIL NAME: DETAIL NAME
SCALE: 1" = 1'-0"
SHEET NUMBER: AI
DETAIL TITLE IDENTIFICATION: DETAIL TITLE IDENTIFICATION
SECTION: 3/A1
DIRECTION: 1
ELEVATION: A4
SHEET NO.: A4

LEGEND

- EXISTING IRON PIN
- NEW IRON PIN
- COMPUTED POINT
- UTILITY POLE
- LIGHT POLE
- R.O.W. RIGHT OF WAY
- M.B.L. MINIMUM BUILDING LINE
- P.B. PLAT BOOK REFERENCE
- D.B. DEED BOOK REFERENCE
- OVERHEAD UTILITY LINE
- SIGN POST
- UTILITY BOX (ABOVE GROUND)
- UTILITY BOX (FLUSH WITH GROUND)
- SANITARY SEWER LINE
- BENCH



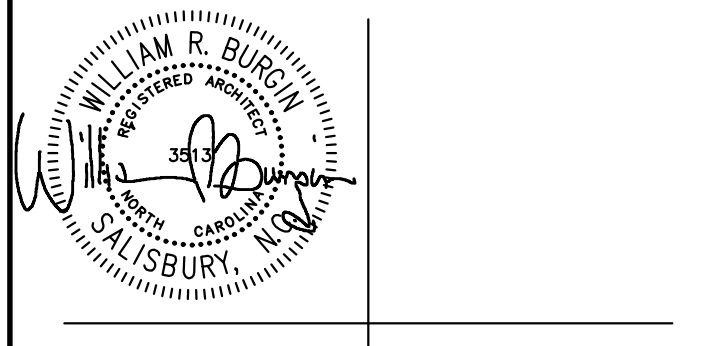
INDEX OF DRAWINGS

A1	ARCHITECTURAL - SITE PLAN
A2	ARCHITECTURAL - FLOOR PLANS
A3	ARCHITECTURAL - ELEVATIONS & SECTIONS
P1.1	PLUMBING
P2.1	PLUMBING - DETAILS
M1.1	MECHANICAL
E1.1	ELECTRICAL - SITE PLAN
E1.2	ELECTRICAL - POWER PLAN
E1.3	ELECTRICAL - LIGHTING PLAN

RAMSAY BURGIN SMITH ARCHITECTS
225 NORTH MAIN STREET - SUITE 501
SALISBURY, NORTH CAROLINA 27144
Phone: (704) 633-3121 Email: rbs@rbsarch.com
PUBLICATION OR REUSE OF THESE DRAWINGS OR ANY DETAILS THEREFROM MUST BE WITH THE WRITTEN CONSENT OF THE ARCHITECT

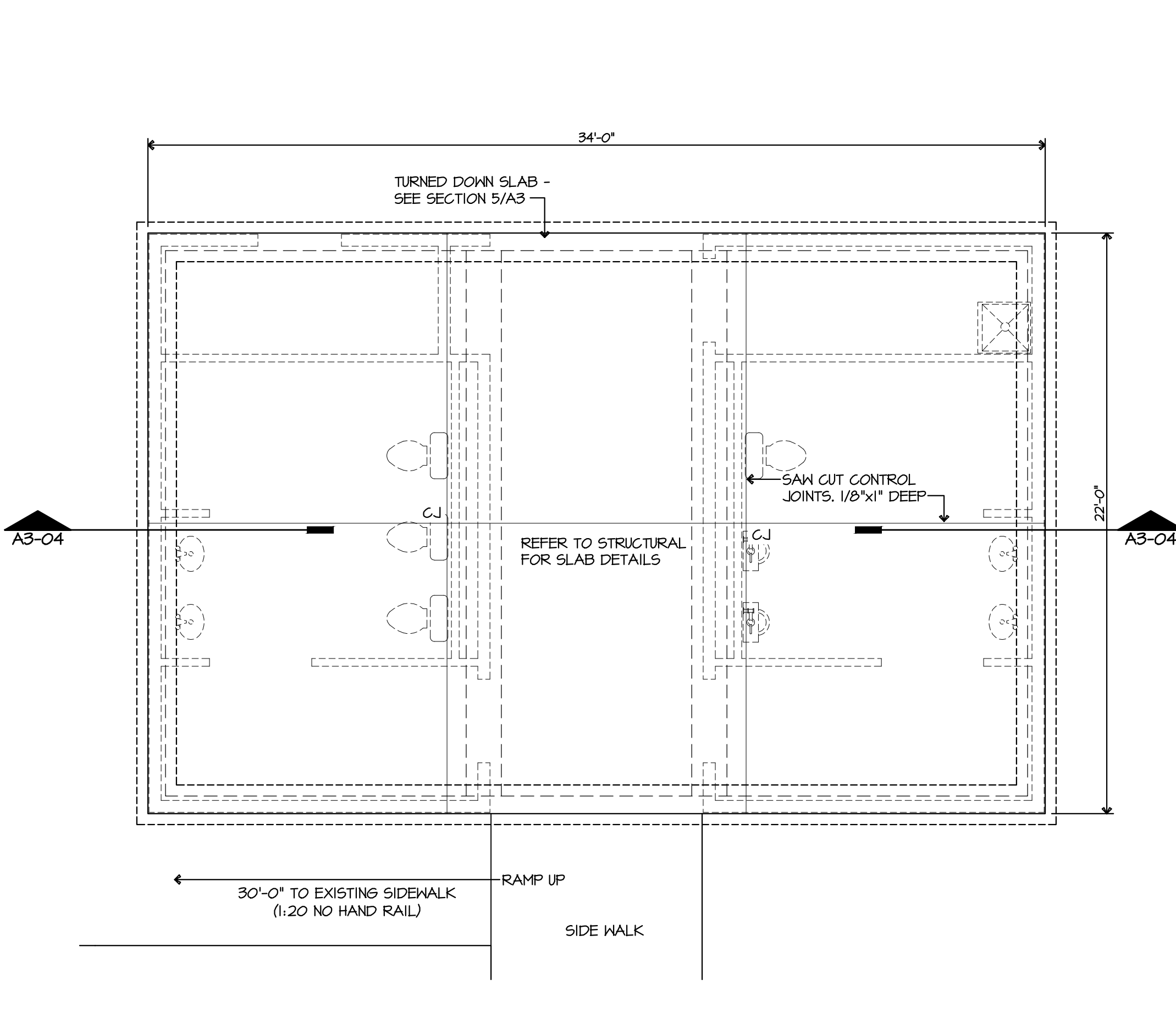
SITE PLAN
SITE PLAN APPENDIX B VICINITY PLAN

Wrenn Miller Park Toilet
101 Guilford Road
Jamestown, NC 27282

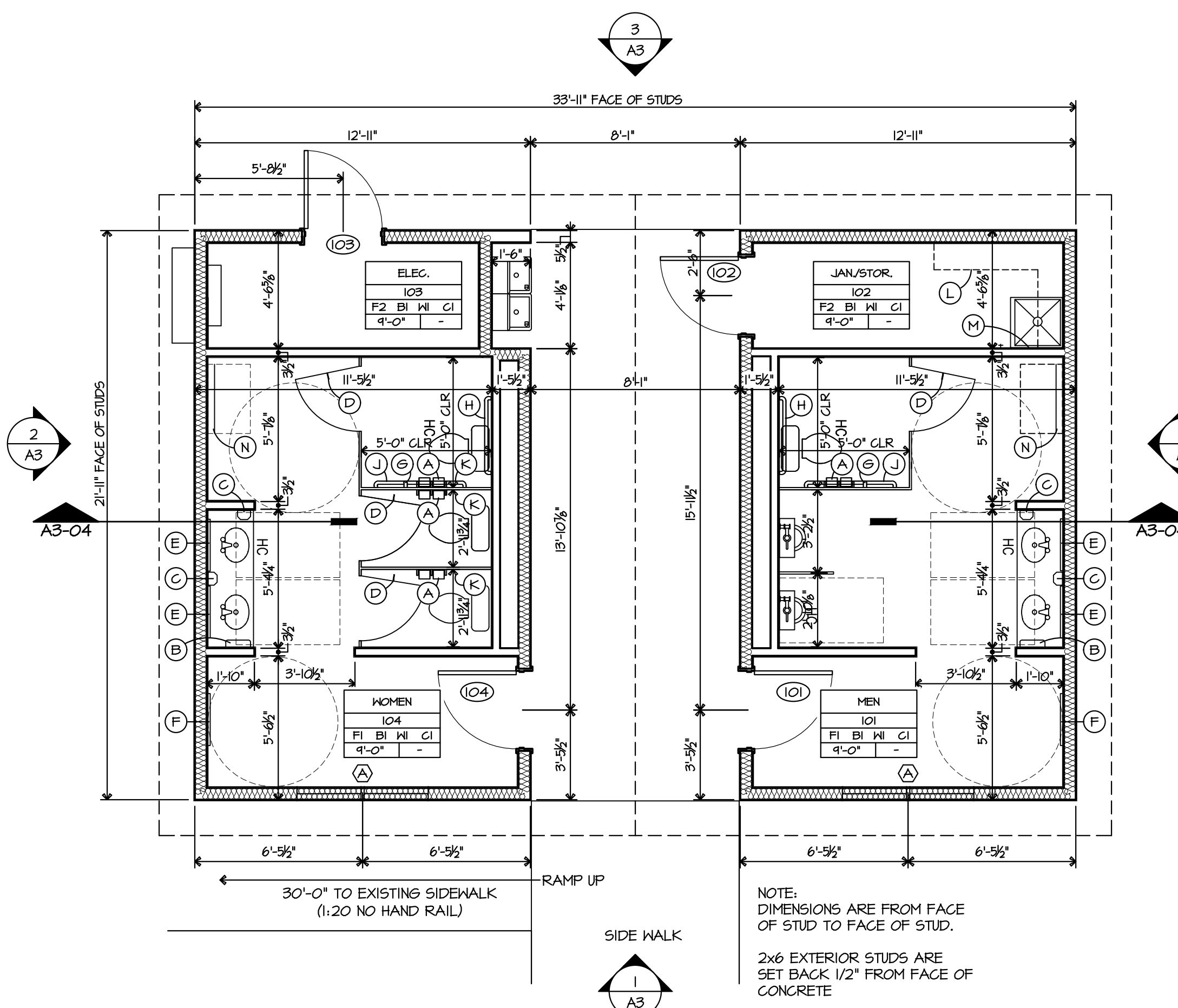


PLG DRAWN BY
HPS CHECKED BY
SEPT 2022
DATE
5/2/2024
CONC. NO.

SHEET NO. AI OF 3



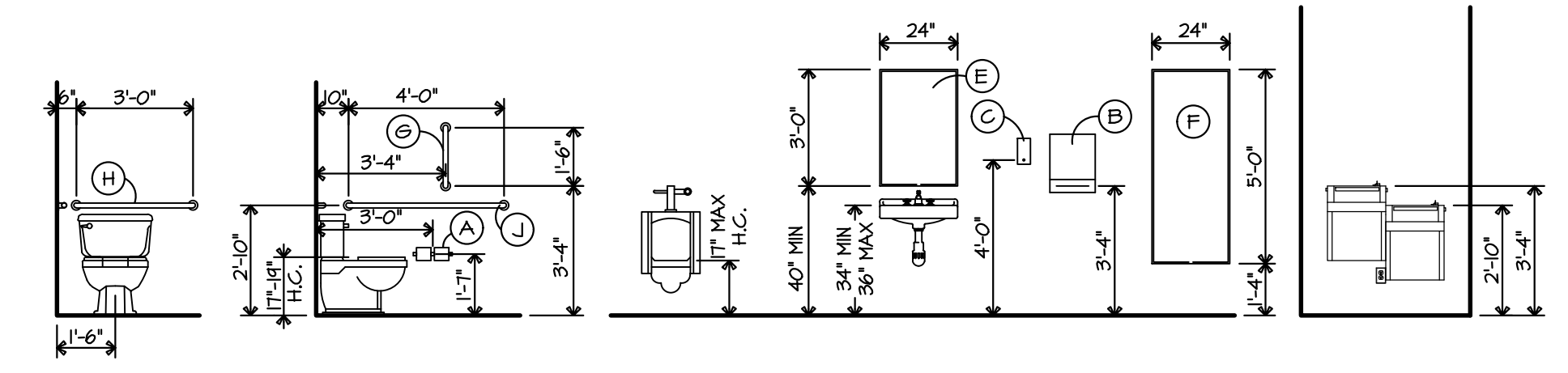
1 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



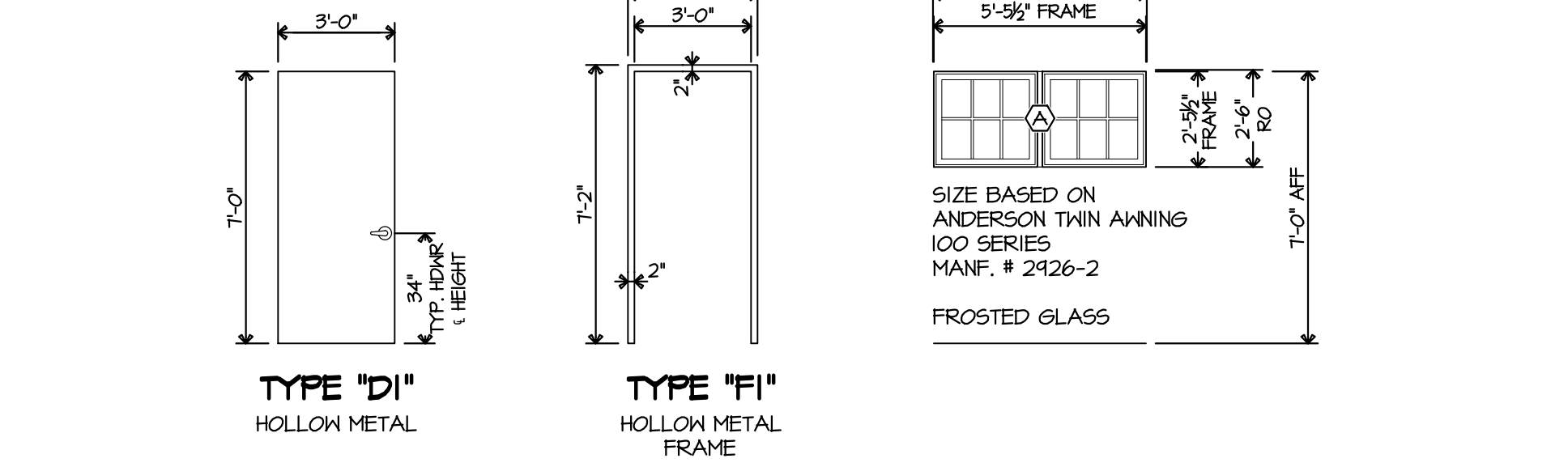
2 FLOOR PLAN
SCALE: 1/4" = 1'-0"

MARK	ITEM	DIMENSIONAL NOTES	PROVIDED BY	INSTALLED BY
A	TOILET TISSUE HOLDER - SURF. MTD.	(STARTING FROM FLOOR TYP. UNQ.)	BY OWNER	GC
B	PAPER TOWEL DISP. - SURF. MTD.	BOBRICK - B-262	GC	GC
C	SOAP DISPENSER - SURF. MTD.	BOBRICK - B-2013	GC	GC
D	COAT/TOWEL HOOK (DUBL.) - SURF. MTD.	BY TOILET STALL SUPPLIER	GC	GC
E	MIRROR - 24x36H	BOBRICK - B-240 2436	GC	GC
F	MIRROR - 24x60H	BOBRICK - B-240 2460	GC	GC
G	GRAB BAR - 18"	BOBRICK - B-6006x18	GC	GC
H	GRAB BAR - 36"	BOBRICK - B-6006x36	GC	GC
J	GRAB BAR - 48"	BOBRICK - B-6006x48	GC	GC
K	SANITARY MARKER DISP. - SURF. MTD.	BOBRICK - B-2710	GC	GC
L	JANITORIAL SHELF	BOBRICK - B-245x24	BY OWNER	BY OWNER
M	STAINLESS SURROUND HALL GUARD MOP HANGER		GC	GC
N	BABY CHANGING TABLE		GC	GC

- NOTES:
- PROVIDE SOLID BLOCKING IN ALL GYP. BD. WALLS SCHEDULED TO HAVE ACCESSORIES, BOARDS, GRAB BARS, HANDRAILS, ETC. MOUNTED TO THEM.
 - MOUNTING HEIGHTS FOR ALL TOILET FIXTURES AND/OR ACCESSORIES AS REQ'D BY N.C. STATE BUILDING CODE FOR THE PHYSICALLY HANDICAPPED.
 - SEE PLUMBING FIXTURE SCHEDULE ON PLUMBING DRAWINGS FOR REQUIRED FIXTURES & ACCESSORIES.



NO.	ROOMS	SIZE	DOORS	HEAD, JAMB SEE A4/2
101	MEN	3'-0"x7'-0"x1 3/4"	H.M. PAINTED DI	FI HI J
102	JAN./STOR.	3'-0"x7'-0"x1 3/4"	H.M. PAINTED DI	FI HI J
103	ELEC.	3'-0"x7'-0"x1 3/4"	H.M. PAINTED DI	FI HI J
104	WOMEN	3'-0"x7'-0"x1 3/4"	H.M. PAINTED DI	FI HI J



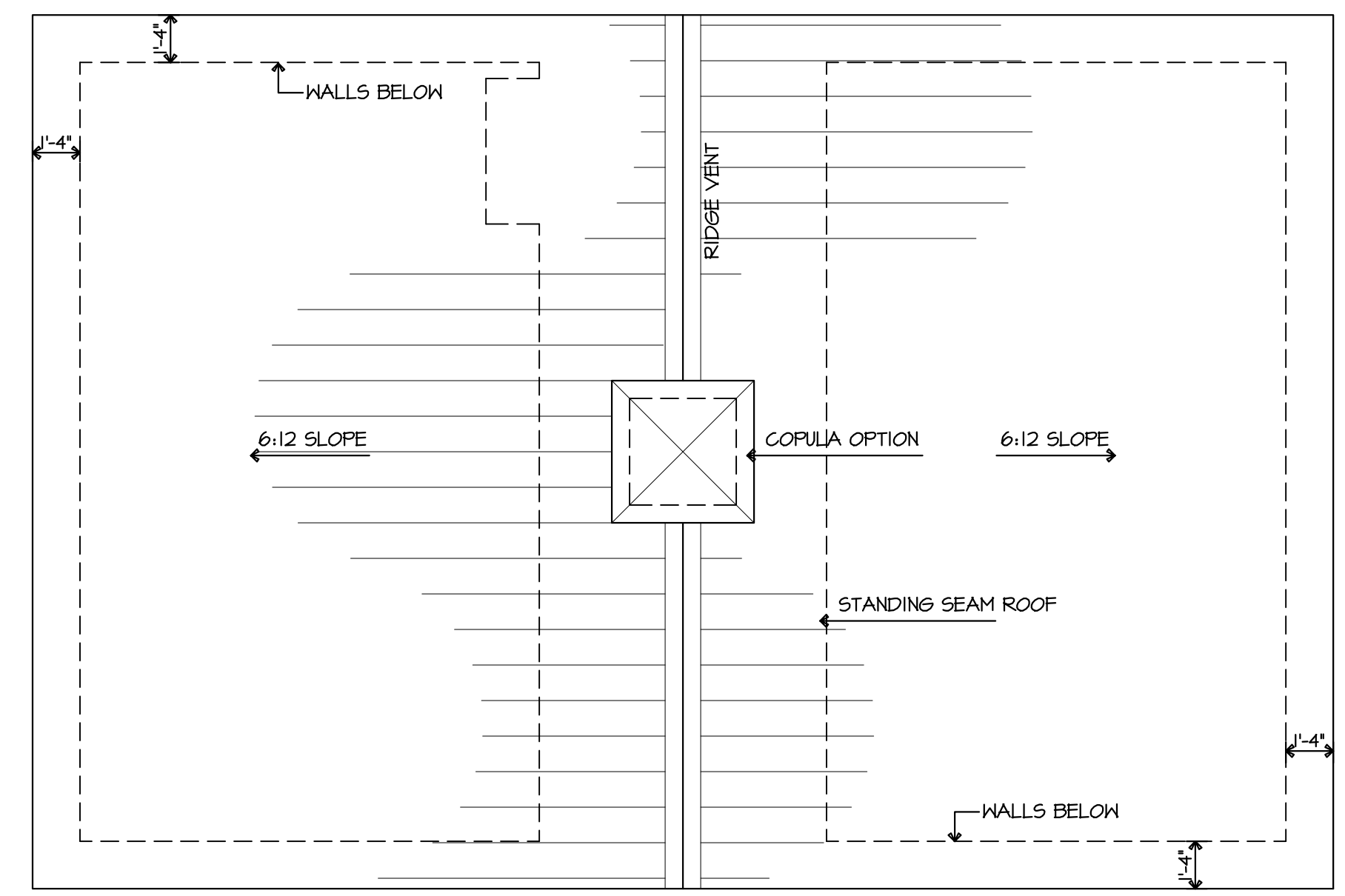
MARK	DESCRIPTION	GLAZING	HEAD	JAMB	SILL	REMARKS
A	ALUMINUM	INSULATED	WH-1	WH-1	WH-1	* SEE SPECIFICATIONS

- NOTES:
- INTERIOR FRAMES IN HOOD STUD PARTITIONS SHALL BE FACTORY PRIMED KNOCKED-DOWN TYPE. WHITERED CORNERS FOR FIELD ASSEMBLY. JOINTS SHALL BE CAULKED AND SMOOTHED FLUSH FOR PAINT APPLICATION AFTER FRAME IS IN PLACE (SEE SPEC).
 - EXTERIOR H.M. FRAMES SHALL BE HEAVY DUTY, FACTORY PRIMED WHITERED CORNERS AND WELDED CONSTRUCTION (SEE SPEC).
 - PROVIDE ADA COMPLIANT THRESHOLD AT ALL ENTRANCE DOORS TYP.
 - LOCKSETS, EXIT DEVICES, PULLS, ETC. SHALL BE MOUNTED AT STANDARD MOUNTING HEIGHT.
 - COMPLETELY FILL INTERIOR FRAME VOIDS WITH INSULATIVE FOAM.

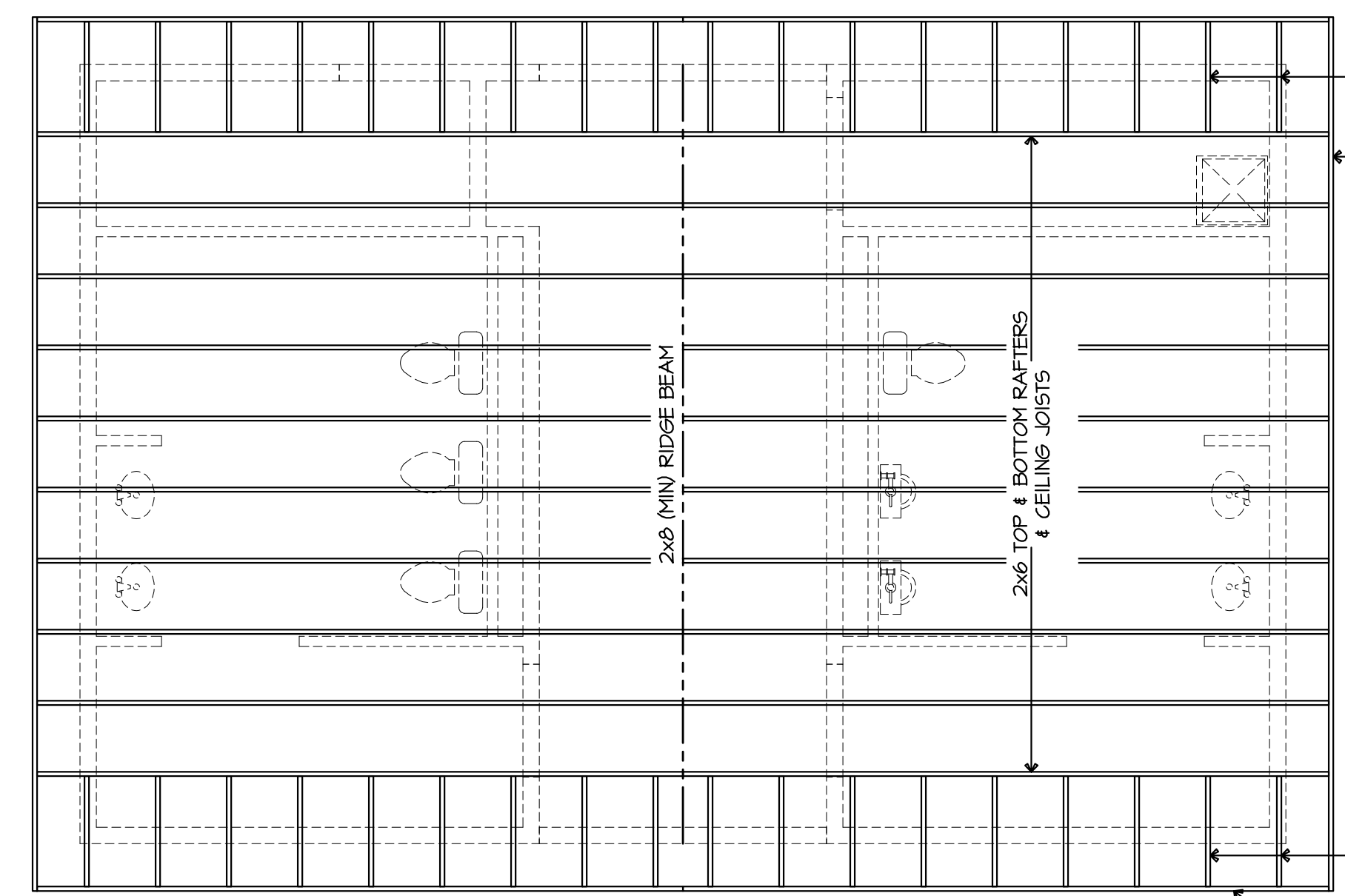
FLOORS	FINISH SCHEDULE
F1	STAMPED CONC. (BRICK PATTERN)
F2	CONC. (TROWEL FIN)
WALLS	GI GYP. BD. & PAINT EPOXY
CEILING	CERAMIC TILE & FUTURE HALL TO HEIGHT OF TOILET PARTITION
BASE	BI CERAMIC TILE
MOLDINGS	GI GYP. BD. PAINTED - FLAT WHITE

PAINT DOOR FRAMES (SEPARATE COLOR FROM WALL PAINT)
PAINT HOLLOW METAL DOORS SAME AS FRAMES

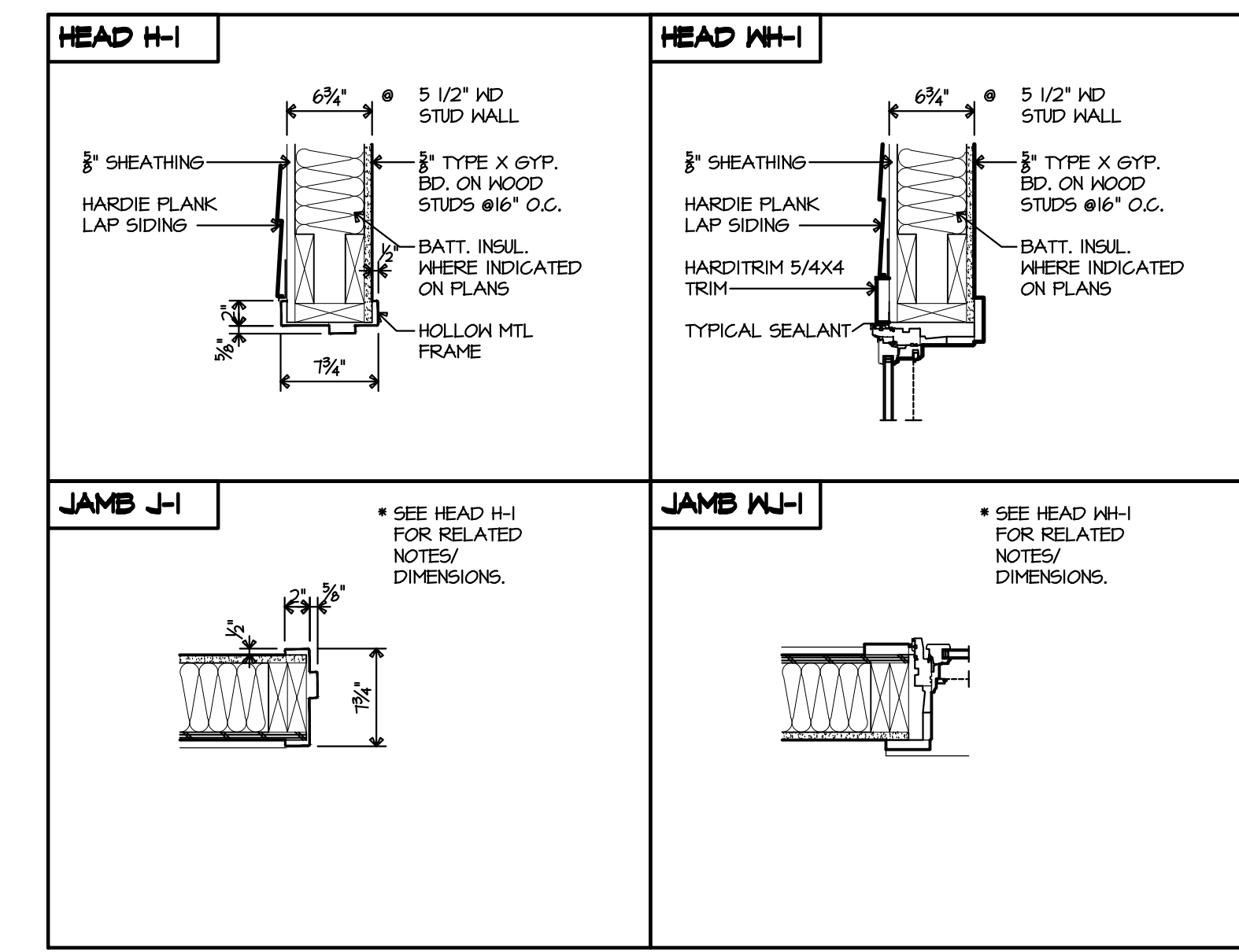
ROOM TITLE	TILE	ROOM TITLE / NUMBER
BASE FINISH	LOOK	WALL FINISH
FLOOR FINISH	REF. MBL. H&C	CEILING FINISH
CEILING HEIGHT	8'-0"	MOLDINGS FINISH



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



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



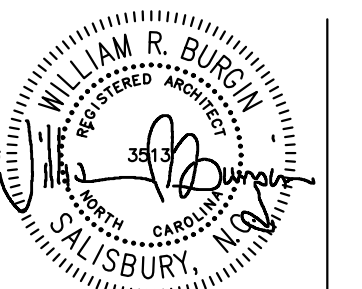
4 HEAD & JAMB DETAILS
SCALE: 1" = 1'-0"

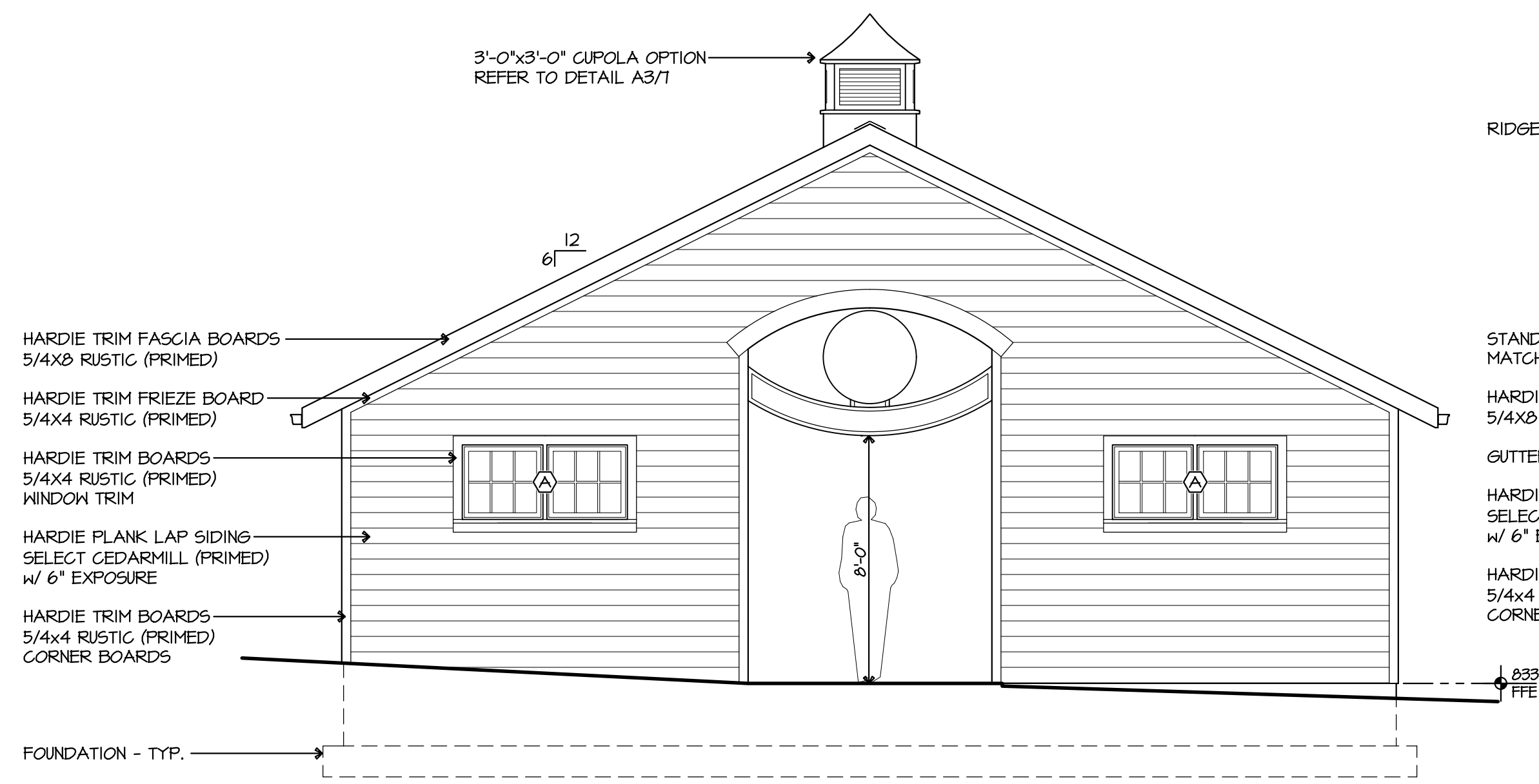
PLANS

FOUNDATION PLAN
FLOOR PLAN
ROOF PLAN
SCHEDULES & DETAILS

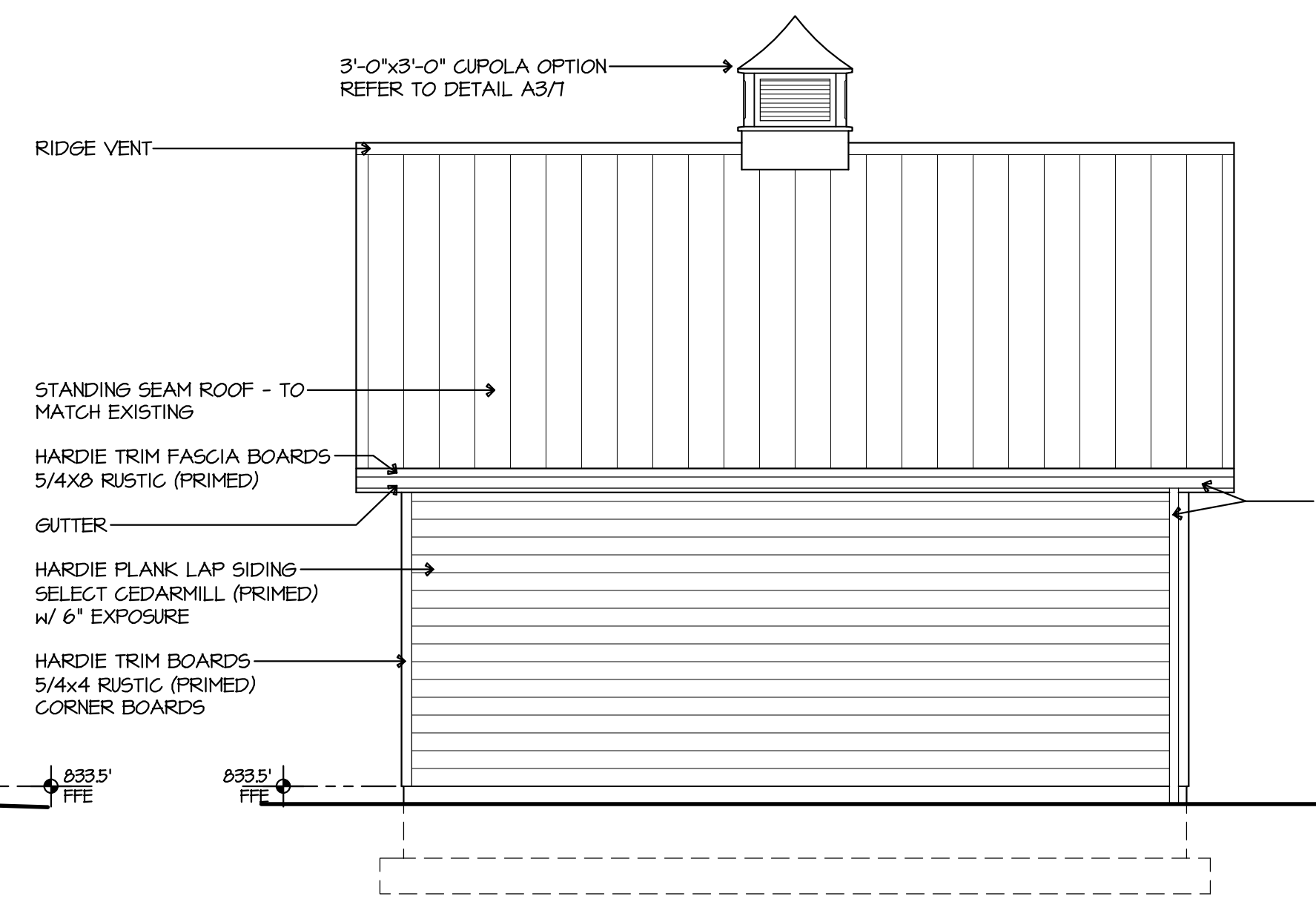
**Wrenn Miller
Park Toilet**

101 Guilford Road
Jamestown, NC 27282

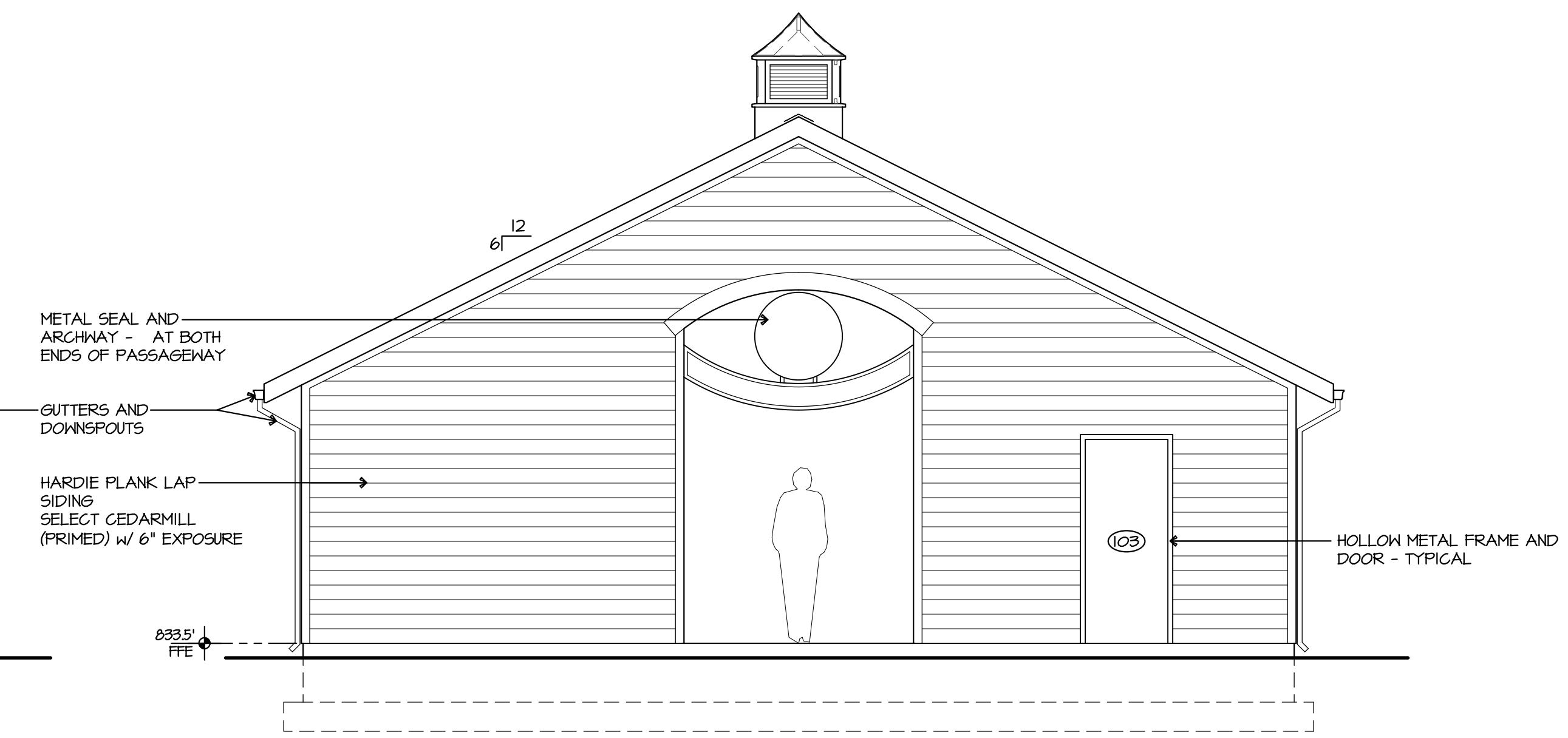




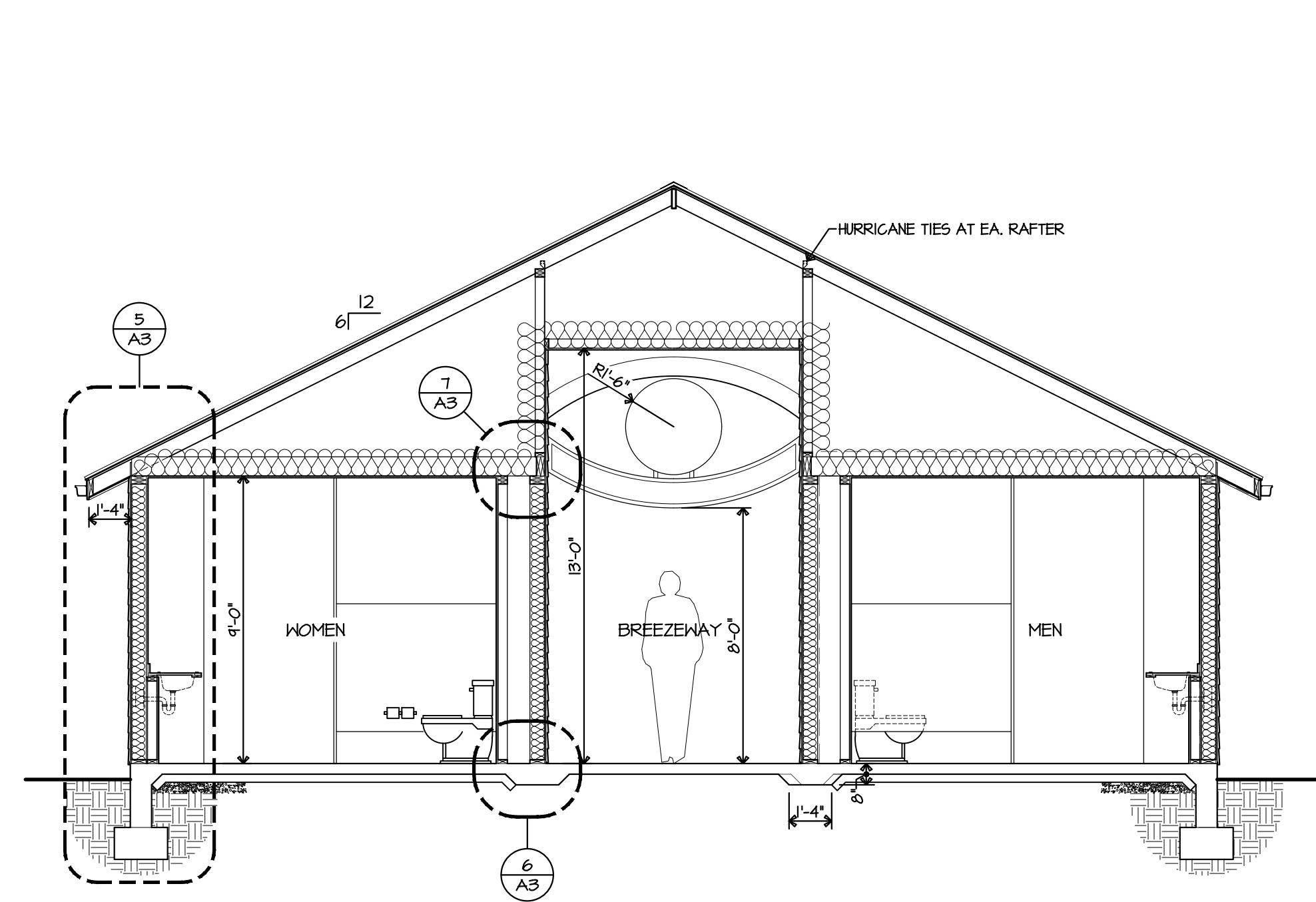
1 FRONT ELEVATION
A3 SCALE: 1/4" = 1'-0"



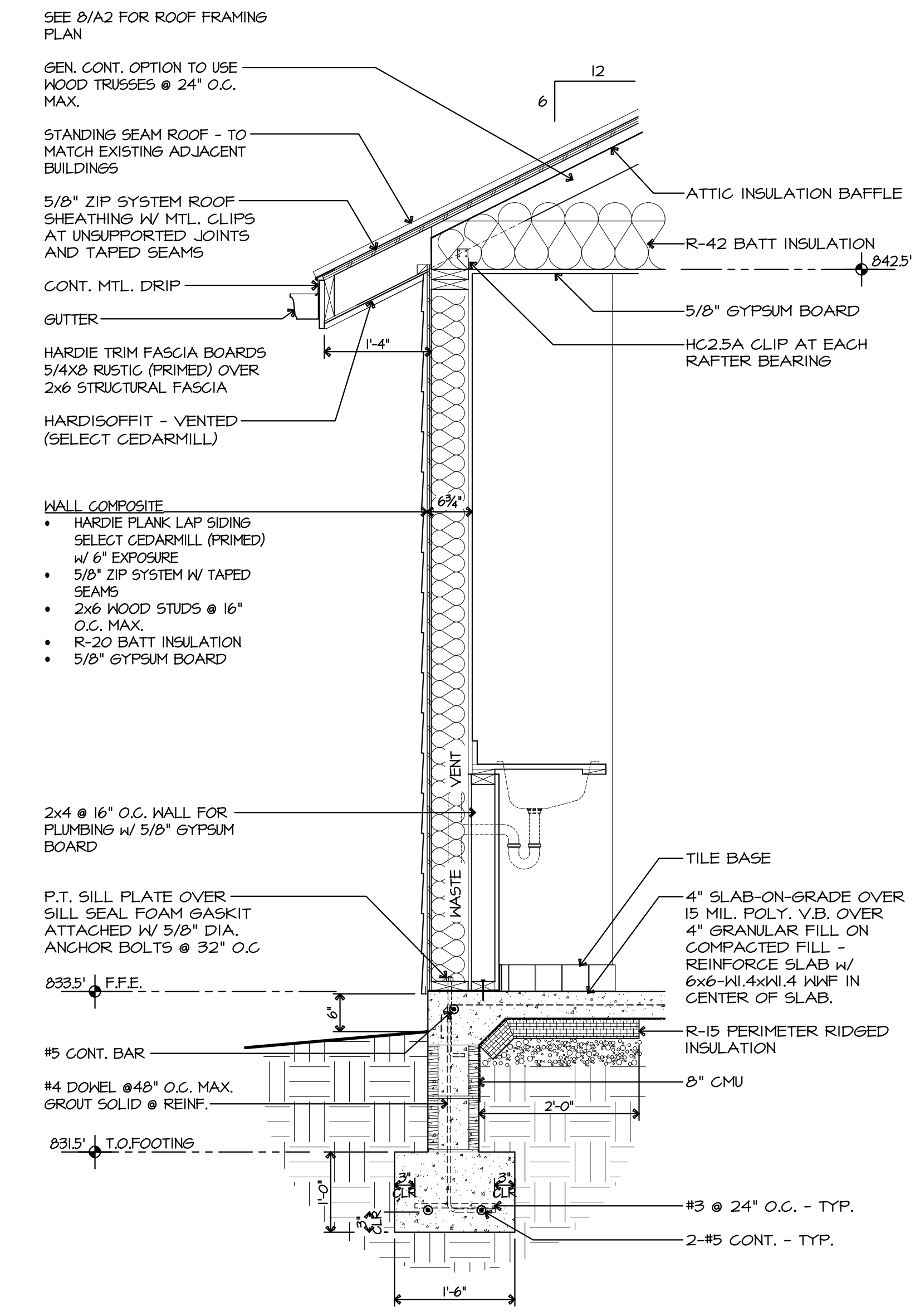
2 SIDE ELEVATION
A3 SCALE: 1/4" = 1'-0"



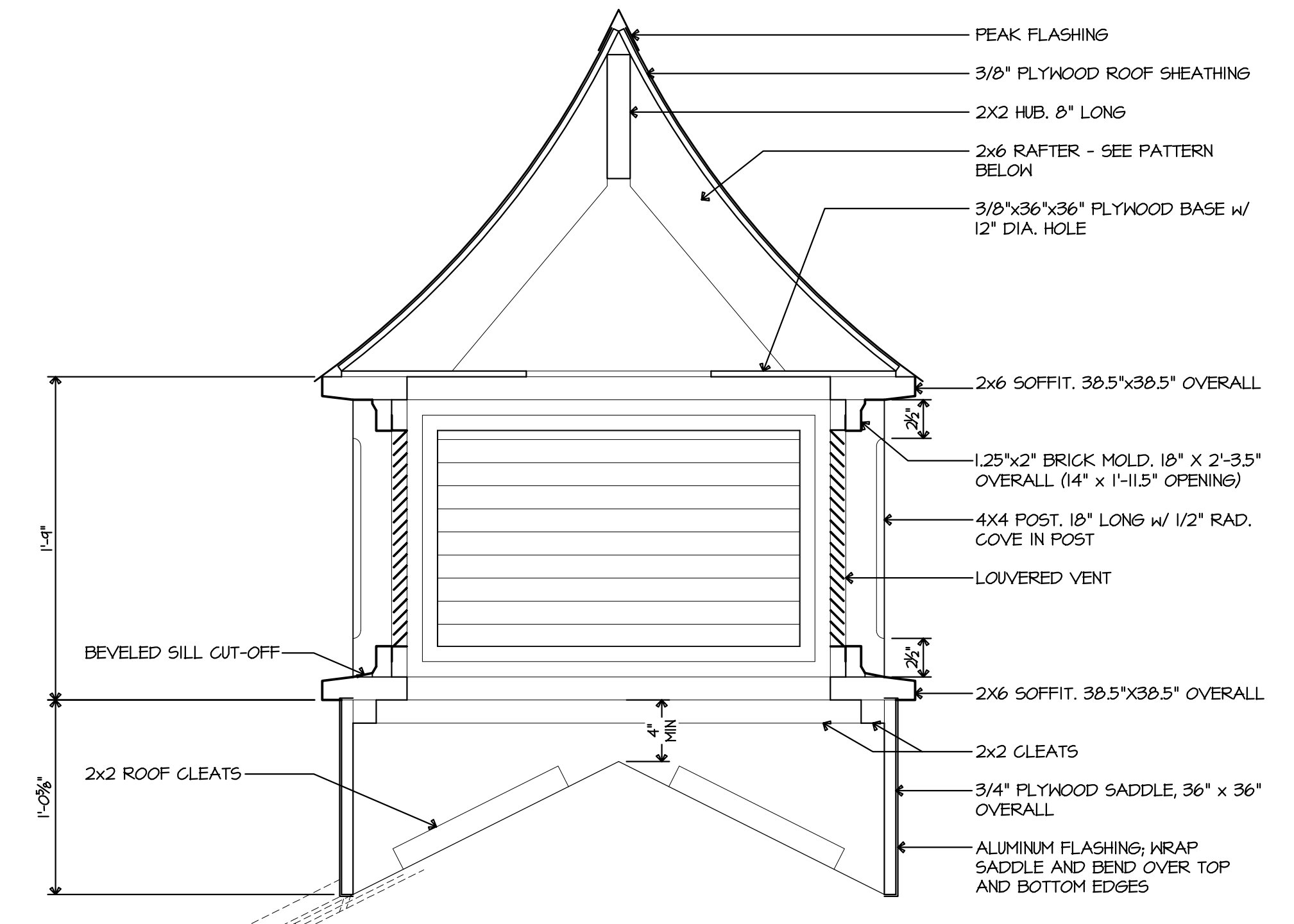
3 REAR ELEVATION
A3 SCALE: 1/4" = 1'-0"



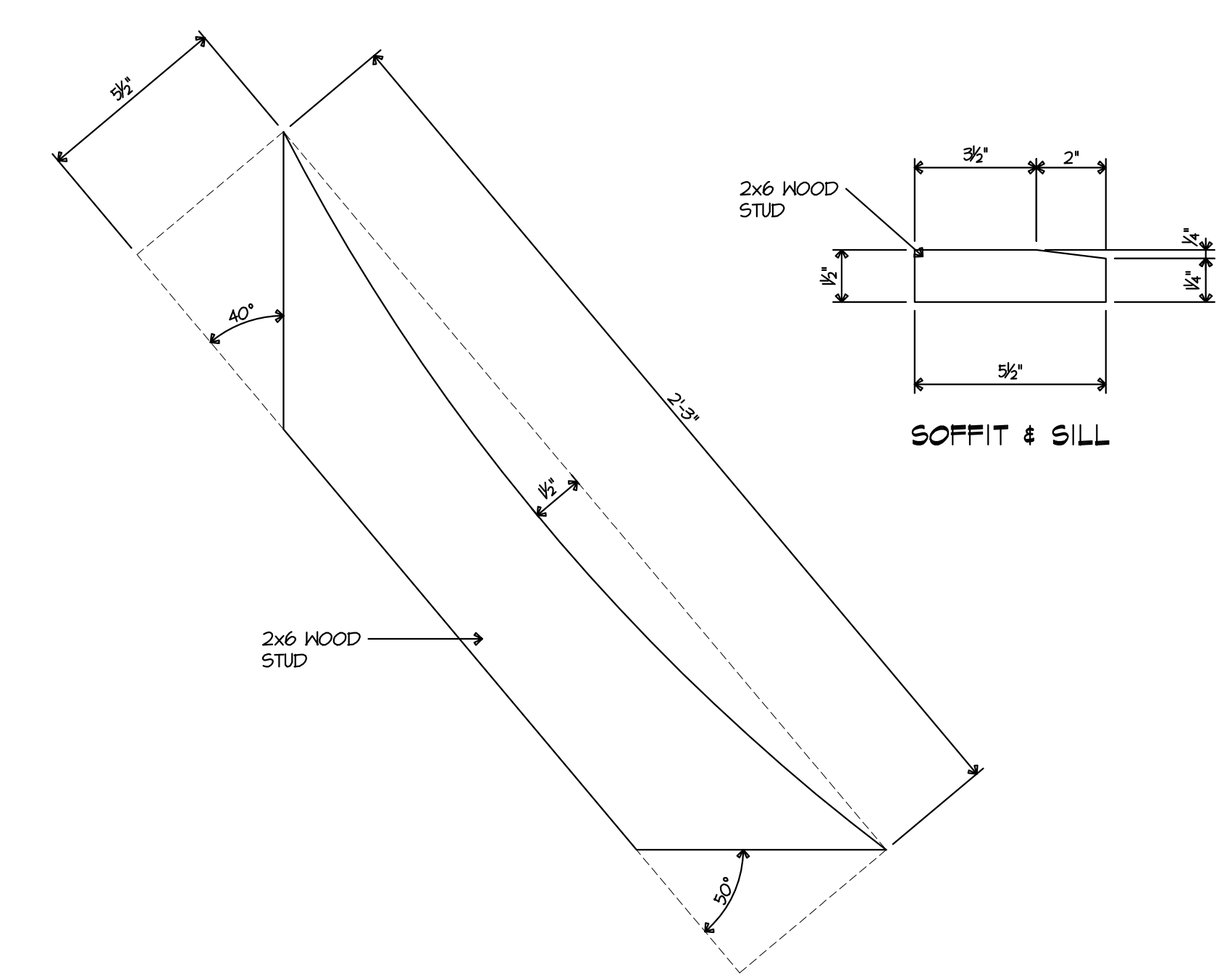
4 BUILDING SECTION
A3 SCALE: 1/4" = 1'-0"



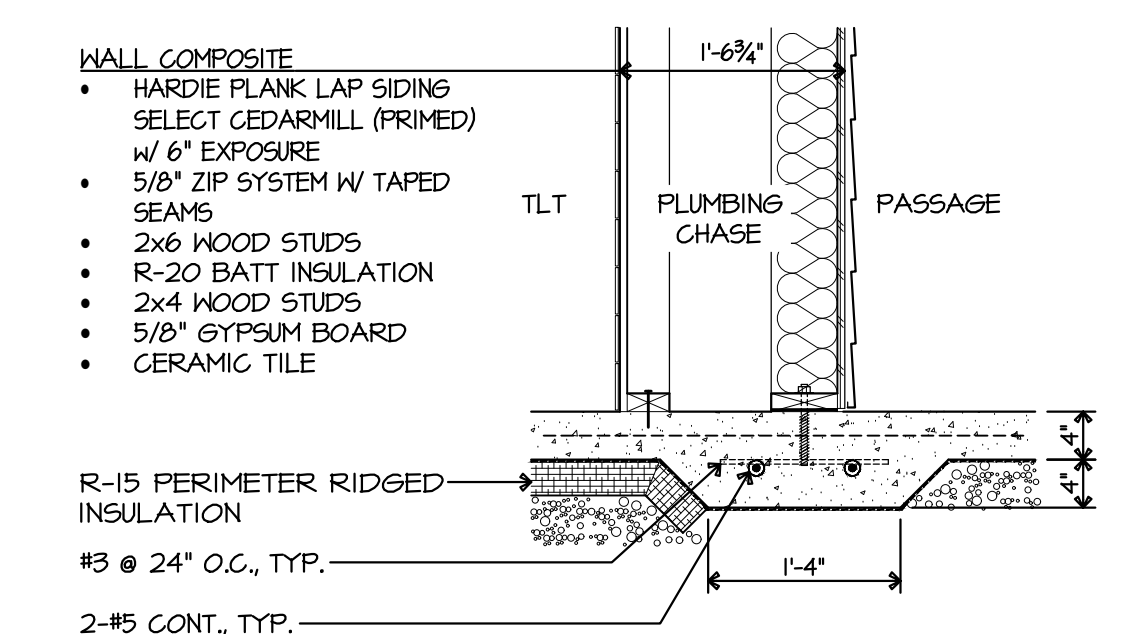
5 WALL SECTION
A3 SCALE: 3/4" = 1'-0"



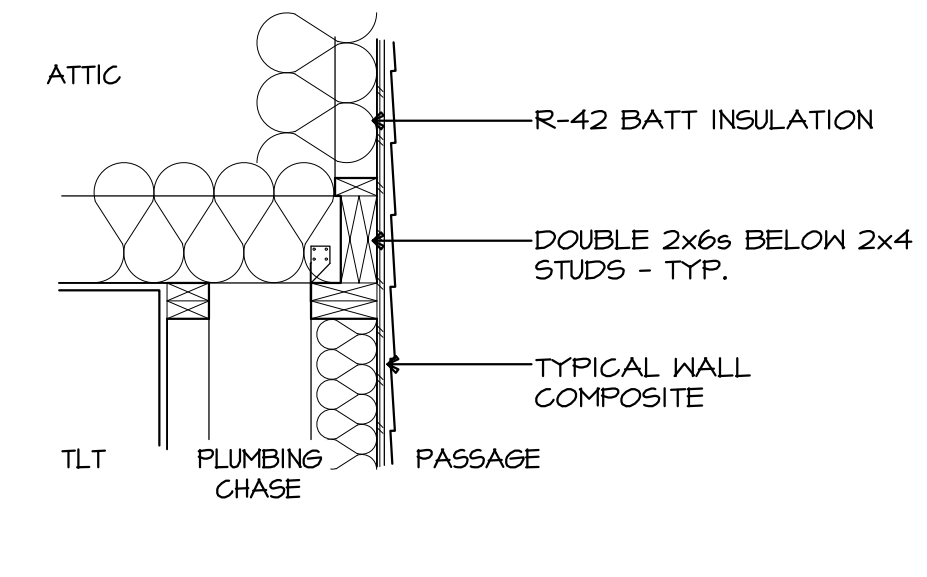
7 CUPOLA SECTION
A3 SCALE: 1 1/2" = 1'-0"



CUPOLA RAFTER PATTERN
SCALE: 3" = 1'-0"



6 SECTION
A3 SCALE: 3/4" = 1'-0"



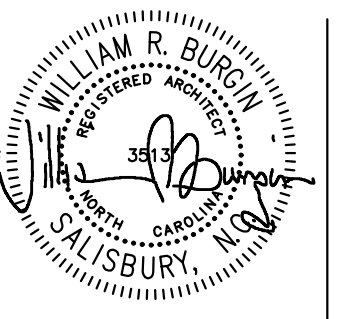
7 SECTION
A3 SCALE: 3/4" = 1'-0"

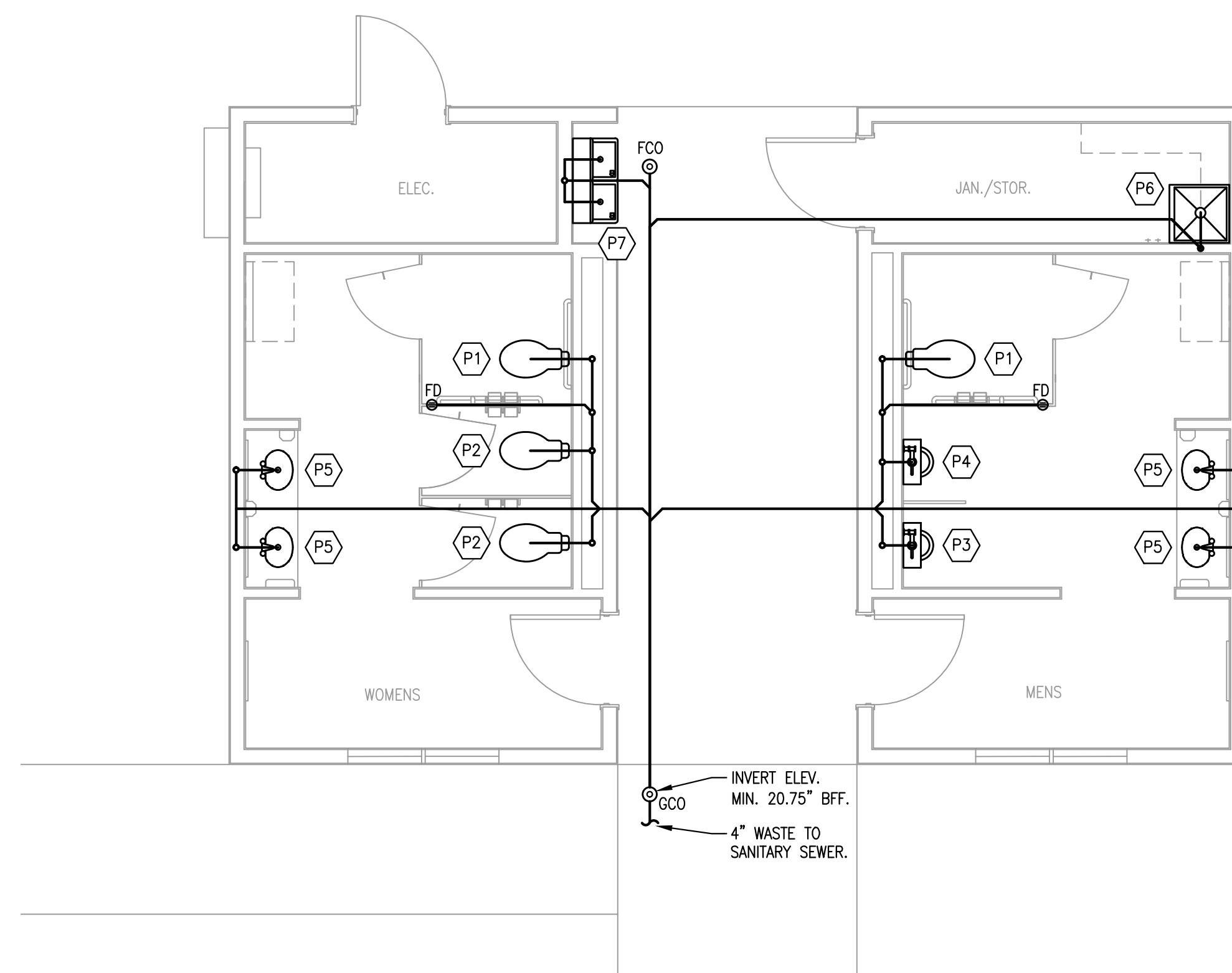
**ELEVATIONS
& SECTIONS**

BUILDING SECTION
WALL SECTION
CUPOLA SECTION

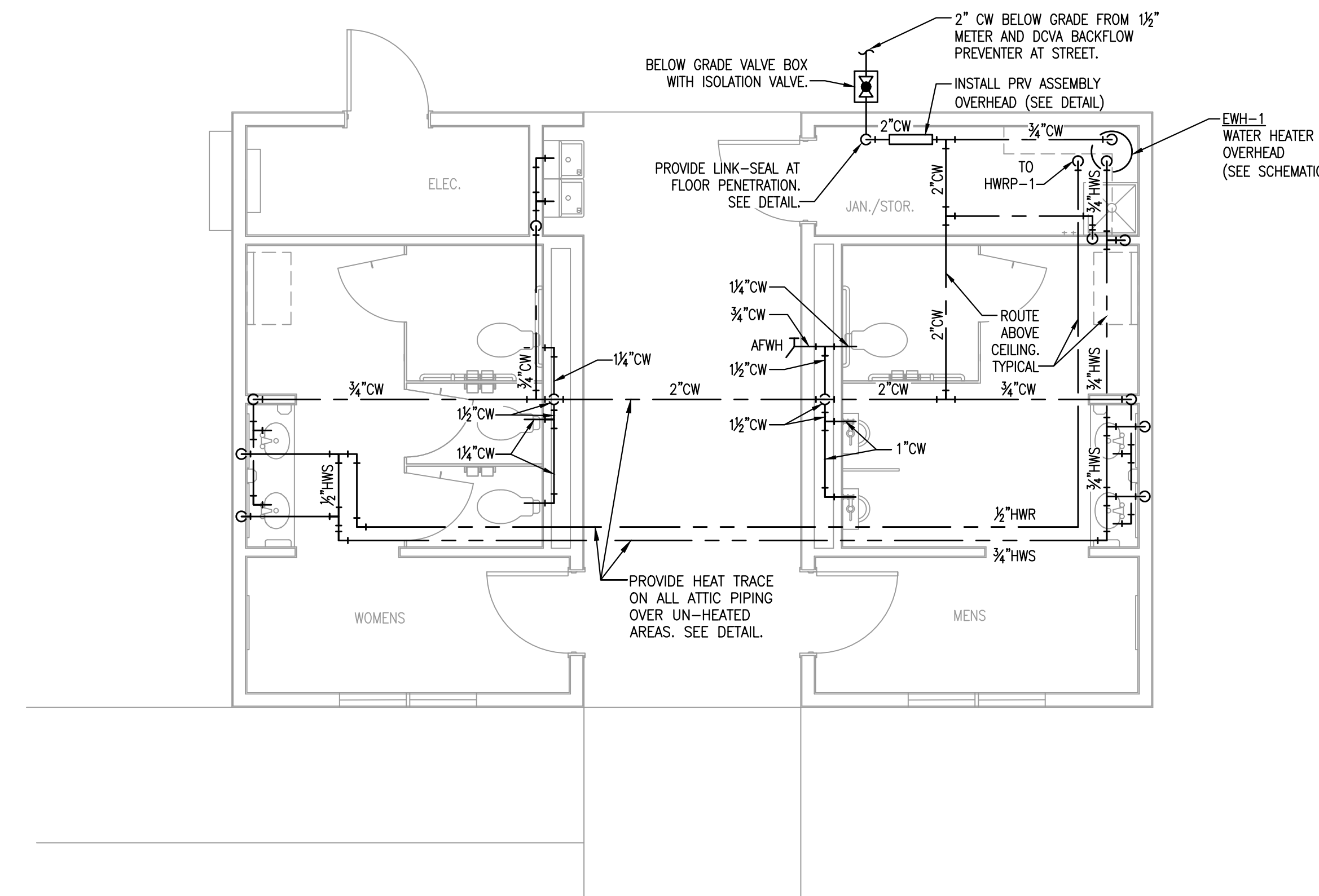
**Wrenn Miller
Park Toilet**

101 Guilford Road
Jamestown, NC 27282

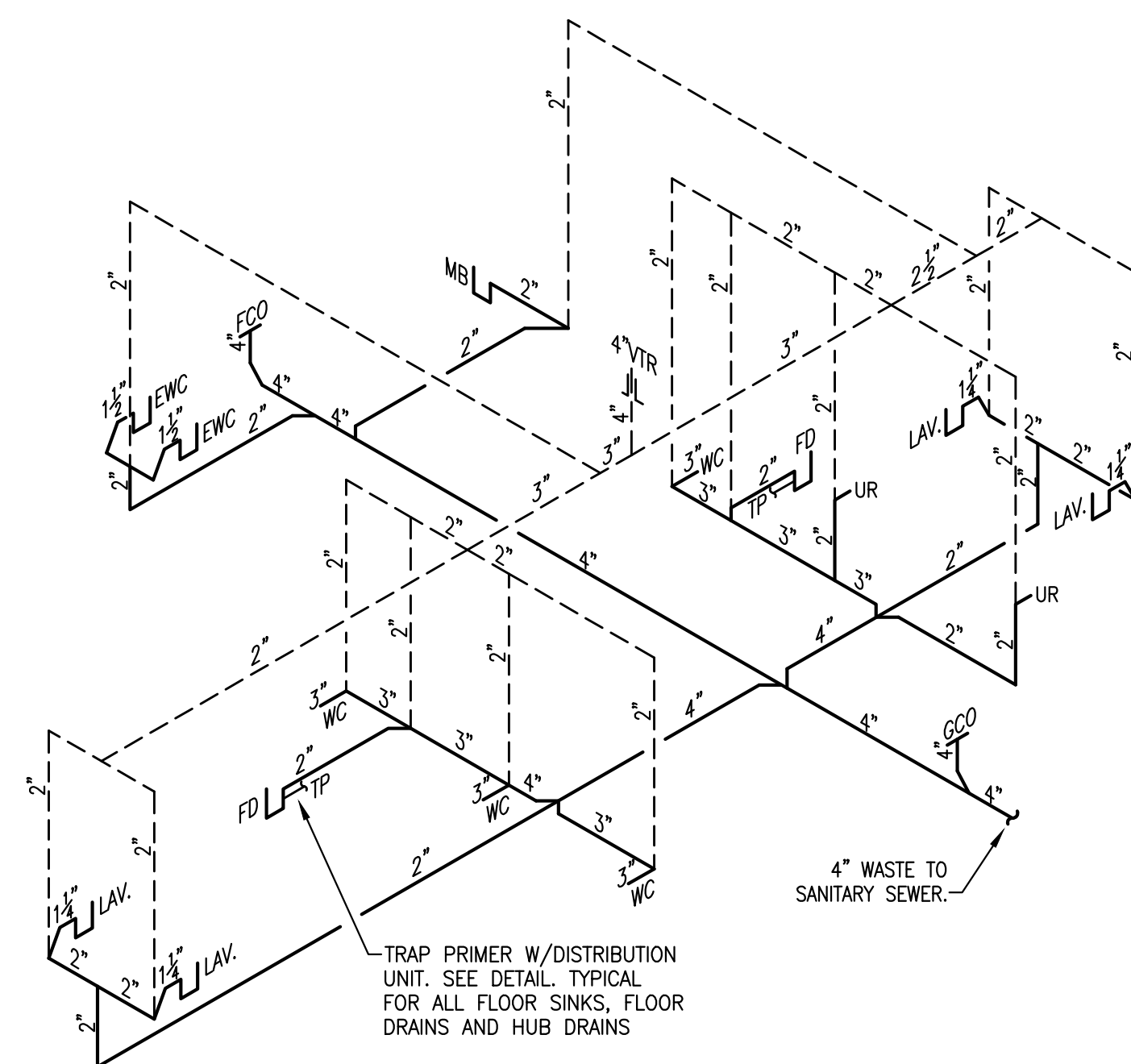




1 WASTE PIPING PLAN
SCALE: 1/4"=1'-0"



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



3 WASTE RISER
SCALE: NO SCALE

FIXTURE UNIT CALCULATIONS (BASED UPON 2018 CODE REQUIREMENTS)									
Fixture Type	Number of Fixtures	Load Value Per Fixture			Load Value Fixture Totals			Drainage Fixture Unit Value (Per Fixture)	Drainage Fixture Unit Value Total
		Cold	Hot	Total	Cold	Hot	Total		
Drinking fountain	2	0.25	0	0.25	0.5	0	1	0.5	1
Floor Drain	2	0	0	0	0	0	0	2	4
Lavatory Public Faucet	4	1.5	1.5	2	6	6	8	1	4
Anti-Freeze Wall Hydrant	1	3	0	3	3	0	3	0	0
Mop Basin	1	1.5	1.5	3	1.5	1.5	3	2	2
Urinal Public 3/4" Flush valve	2	5	0	5	10	0	10	4	8
Water closet Public Flush valve	4	10	0	10	40	0	40	6	24
	16				61	7.5	64.5	15.5	43
	Total # of Fixtures				Total Cold	Total Hot	Total	Per Fixture	Total
					Total Water Fixture Units			Waste Fixture Units Totals	

ABBREVIATIONS

GOO	GRADE CLEANOUT
FCO	FLOOR CLEANOUT
LAV	LAVATORY
FS	FLOOR SINK
HB	HOSE BIBB
MB	MOP BASIN
V	PLUMBING VENT
VTR	VENT THRU ROOF
CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RETURN
AFWH	ANTI-FREEZE WALL HYDRANT
UR	URINAL
WC	WATER CLOSET
DW	DISH WASHER
EW	EYE WASH
ES/EW	EMERGENCY SHOWER/EYE WASH
DT	DILUTION TANK
HD	HUB DRAIN FOR MECHANICAL CONDENSATE SHALL BE LOCATED ABOVE FINISHED CEILING. PROVIDE ACCESS AND TP.

LEGEND

	BALL VALVE
	TRAP PRIMER
	ANTI-FREEZE WALL HYDRANT
	PIPE ELBOW
	PIPE TEE
	PIPE ELBOW DOWN
	(SIZE) HOT WATER
	(SIZE) COLD WATER
	(SIZE) SANITARY WASTE

PLUMBING SPECIALTIES SCHEDULE

SYM	DESCRIPTION	*MFR & MODEL	NOTE
FD	FLOOR DRAIN	SMITH 2005-03B	1,6,10
FCO	FLOOR CLEANOUT	SMITH 4040 SERIES	1,7
WCO	WALL CLEANOUT	SMITH 4530 SERIES	2,11
GOO	GRADE CLEANOUT	SMITH 4250 SERIES	3
AFWH	WALL HYDRANT	SMITH 5509QT	4
HB	HOSE BIBB	T&S BRASS B-0736-POL	4
SA-1	SHOCK ABSORBER	SMITH 5005	5
SA-2	SHOCK ABSORBER	SMITH 5010	5
SA-3	SHOCK ABSORBER	SMITH 5020	5
TP	TRAP PRIMER	PPP PR-500	5,8
FS-1	FLOOR SINK	SMITH 3008-12	6,9
AAD	AIR ADMITTANCE DEVICE	STUDDOR 20301	5

*ACCEPTABLE EQUAL ALTERNATES BY ZURN OR WADE.

NOTE:

- SATIN BRONZE COVER
- ROUND STAINLESS STEEL COVER, MAINTAIN 16" MIN CLEARANCE
- CAST IRON TOP
- W/ VACUUM BREAKER
- MOUNT IN ACCESSIBLE LOCATION
- SEE RISER FOR DRAINS WITH PRIMER TAPS
- CARPET FLANGES WHERE REQ'D. SEE ARCH. ROOM FINISH SCHED.
- DISTRIBUTION UNITS (DU) AS REQUIRED. SEE PLAN.
- HALF GRATE; SEDIMENT BUCKET
- SQUARE GRATE
- CLEANOUTS ON 6" AND SMALLER PIPES SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 18" FOR ROODING.
- DRY VENTS MUST RISE 6" ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE. EXCEPT ISOLATED FLOOR DRAINS AND INTERCEPTORS SHALL RISE 6" BEFORE TURNING HORIZONTAL AND A WALL CLEANOUT IS INSTALLED IN THIS VENT.

ALL DOMESTIC WATER BRANCH PIPE NOT OTHERWISE INDICATED SHALL BE 1/2"

PLUMBING NOTES

- PLUMBING CONTRACTOR (P.C.) SHALL FIELD VERIFY ALL CONDITIONS AT THE JOB SITE PRIOR TO BEGINNING WORK. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- P.C. SHALL COORDINATE SCHEDULING OF WORK WITH GENERAL CONTRACTOR.
- UNLESS OTHERWISE INDICATED ON PLANS, ALL DOMESTIC WATER PIPING AND SANITARY VENTS FOR SPACES ARE ROUTED ABOVE CEILING. SANITARY WASTE AND DRAIN PIPING IS LOCATED BELOW FLOOR (IN LOWER LEVEL AREAS OR UNDER SLAB).
- PLUMBING WORK SHALL INCLUDE INSTALLATION OF DOMESTIC HOT AND COLD WATER PIPING, AND WASTE AND VENT PIPING AS INDICATED ON PLUMBING PLANS. DOMESTIC WATER SYSTEM COMPONENTS SHALL BE DESIGNED TO WITHSTAND THE MAXIMUM SYSTEM STATIC AND FLOW PRESSURE, BUT IN NO CASE SHALL BE LESS THAN 125 POUND CLASS.
- COORDINATE PLUMBING WORK WITH OTHER TRADES TO AVOID CONFLICTS.
- DOMESTIC WATER PIPE SHALL BE CPVC FOR 1/2" OR LARGER AND PEX WITH MECHANICAL FITTINGS FOR 1" AND SMALLER - PIPE SIZES INDICATED ARE NOMINAL DIMENSIONS.
- WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC. DO NOT INSTALL PVC IN HVAC PLENUMS. USE SCHEDULE 40 CAST IRON INSTEAD.
- DOMESTIC WATER PIPE ABOVE GRADE SHALL BE INSULATED. PROVIDE FIBERGLASS INSULATION WITH FACTORY JACKET, PREFORMED FITTINGS WITH PVC JACKETS AT ELBOWS. 1" INSULATION FOR PIPE 1" AND SMALLER, 1/2" INSULATION FOR PIPE 1/2" TO 2 1/2".
- LABEL ALL DOMESTIC WATER PIPING. SEE DETAIL SHEET.

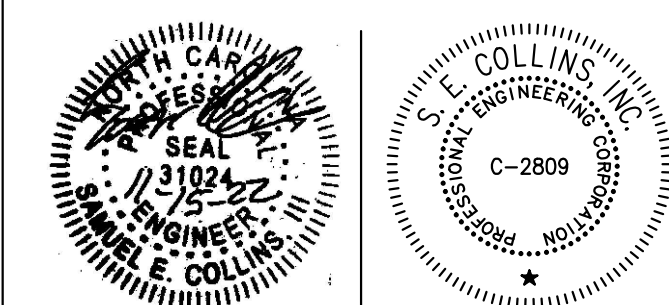
PLUMBING FIXTURE SCHEDULE

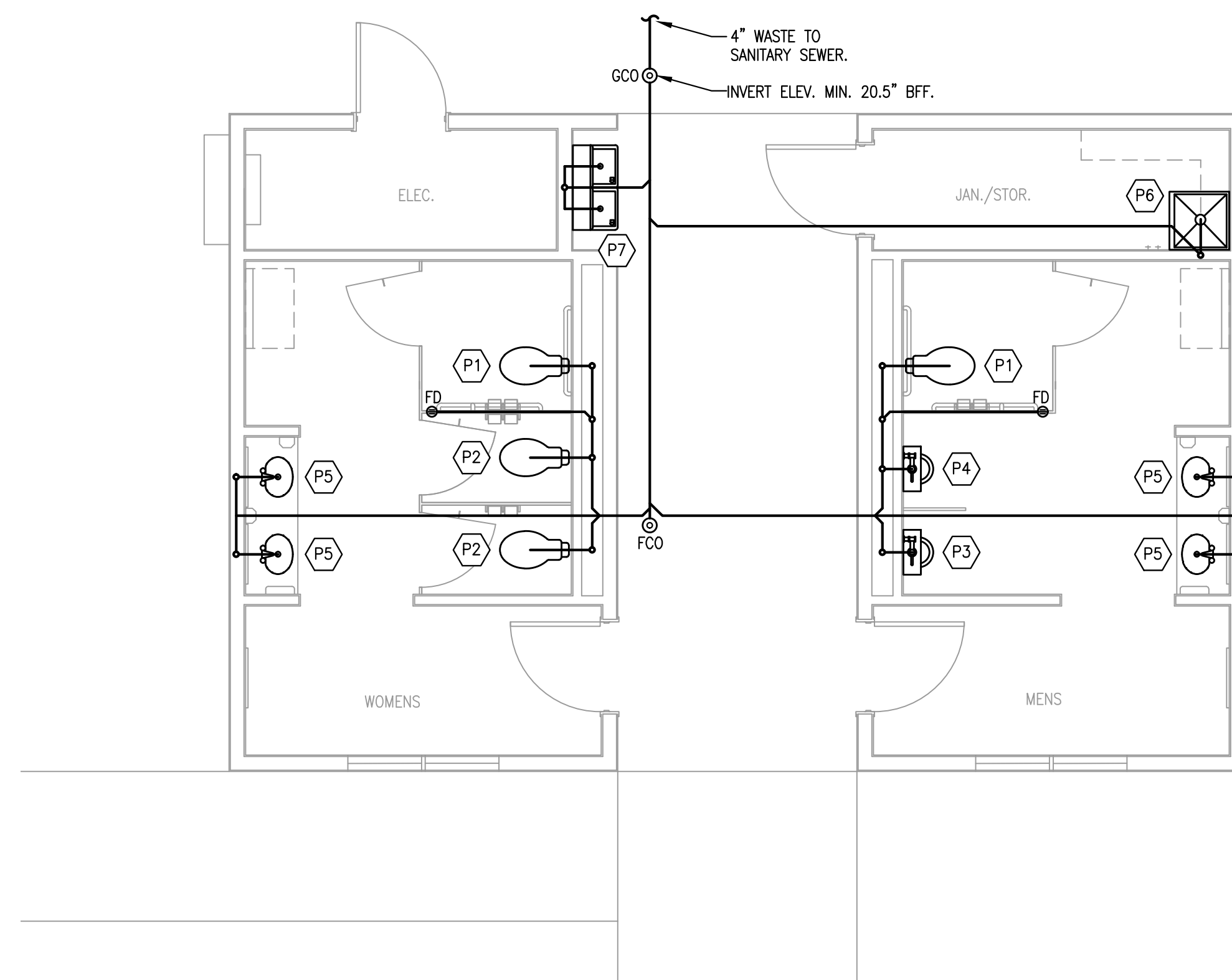
	DESCRIPTION	MFR	MODEL	CW	HW	WASTE	ACCESSORIES
P1	WATER CLOSET ADA FLOOR MOUNTED, ELONGATED BOWL, SIPHON JET, 1.28 gpf SENSOR FLUSH VA., WHITE	ZURN KOHLER AM. STANDARD	Z5665-BWL EQUAL	1"	-	3"	SLOAN OPTIMA 111.1.28 ES-S TMO 24 VOLT FLUSH VALVE, CHURCH 295CT SEAT
P2	WATER CLOSET FLOOR MOUNTED, ELONGATED BOWL, SIPHON JET, 1.28 gpf SENSOR FLUSH VA., WHITE	ZURN KOHLER AM. STANDARD	Z5665-BWL EQUAL	1"	-	3"	SLOAN OPTIMA 111.1.28 ES-S TMO 24 VOLT FLUSH VALVE, CHURCH 295CT SEAT
P3	URINAL ADA WALL MOUNTED, VITREOUS CHINA, MOUNT FOR ADA COMPLIANCE, WHITE	ZURN KOHLER AM. STANDARD	Z5738 EQUAL	3/4"	-	2"	SLOAN OPTIMA 186-1.25 ES-S TMO 24 VOLT, WALL HANGER BRACKETS
P4	URINAL WALL MOUNTED, VITREOUS CHINA, WHITE	ZURN KOHLER AM. STANDARD	Z5738 EQUAL	3/4"	-	2"	SLOAN OPTIMA 186-1.25 ES-S TMO 24 VOLT, WALL HANGER BRACKETS
P5	LAVATORY ADA SURFACE MOUNTED, SELF-RIMMING, OVAL, VITREOUS CHINA, 4" CTR DRILLING, INSTALL FOR ADA COMPLIANCE, WHITE	KOHLER ELJER AM. STANDARD	K-2196 EQUAL	3/8"	3/8"	1 1/4"	SLOAN ETF-80 24 VOLT SENSOR FAUCET W/ 0.5 GPM GRID STRAINER W/ OFFSET TAILPIECE, CHROME P-TRAP & STOPS, MCGUIRE PW 2150WC ADA INSUL. KIT AND THERMOSTATIC MIXING VALVE.
P6	MOP BASIN 12" DEEP TERRAZZO MOP RECEPTOR WITH TILING FLANGE(S) AND STAINLESS STEEL	S. WILLIAMS ACORN	SB-902-L 24x24 EQUAL	1/2"	1/2"	3"	T-10-VB FAUCET (ROUGH CHROME) W/ VACUUM BREAKER, T-35 HOSE & HOOK, T-40 MOP HANGER, BP SPLASH PANEL(S)
P7	DRINKING FOUNTAIN ADA WALL HUNG, BARRIER-FREE, MOUNTED FOR ADA COMPLIANCE, FREEZE RESISTANT	ELKAY OASIS HAWS	LK4405FRK EQUAL	3/8"	-	1 1/2"	CHROME P-TRAP AND ANGLE STOP

PLUMBING WASTE & WATER PIPING PLAN

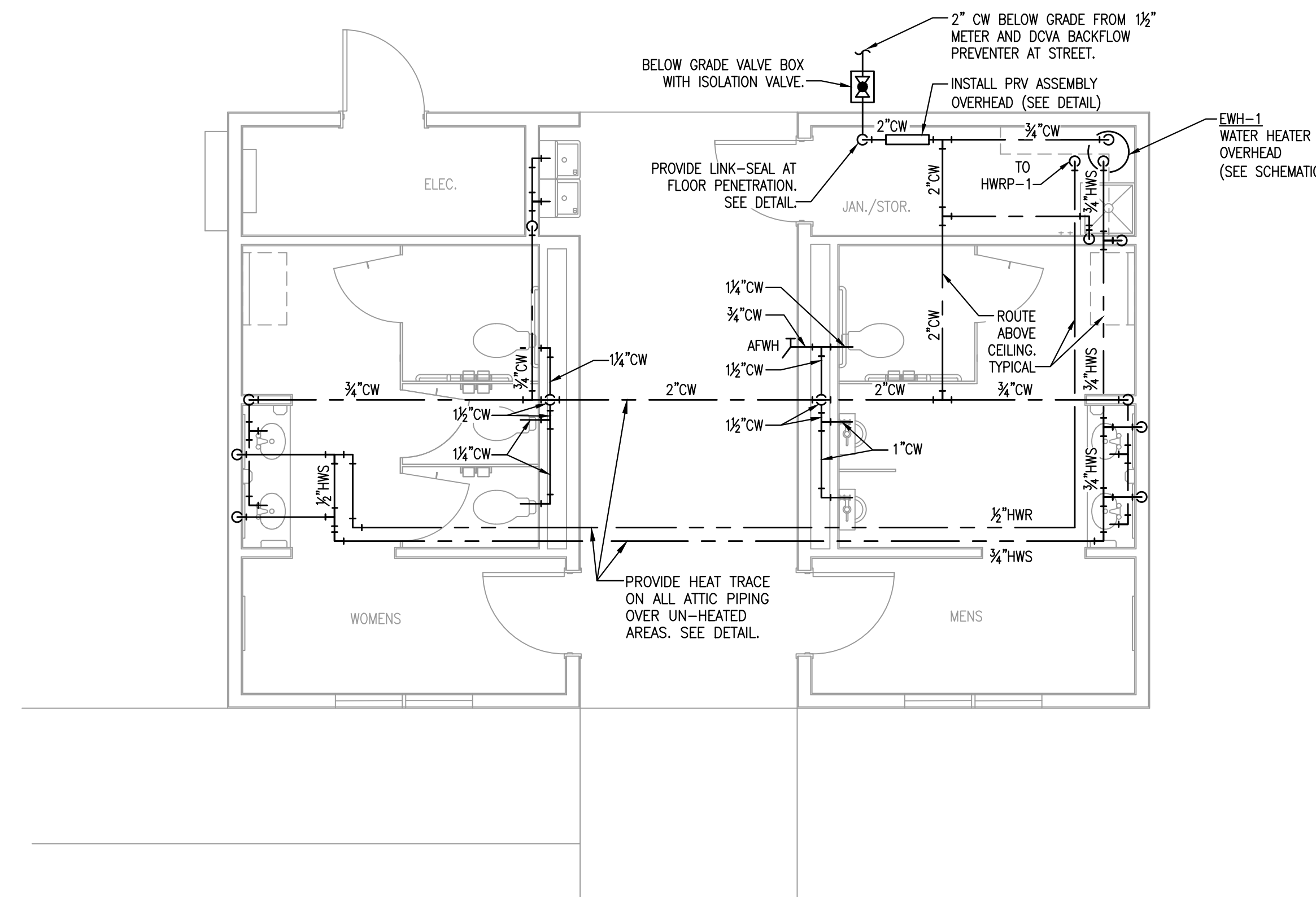
Wrenn Miller Park Toilet

101 Guilford Road
Jamestown, NC 27282

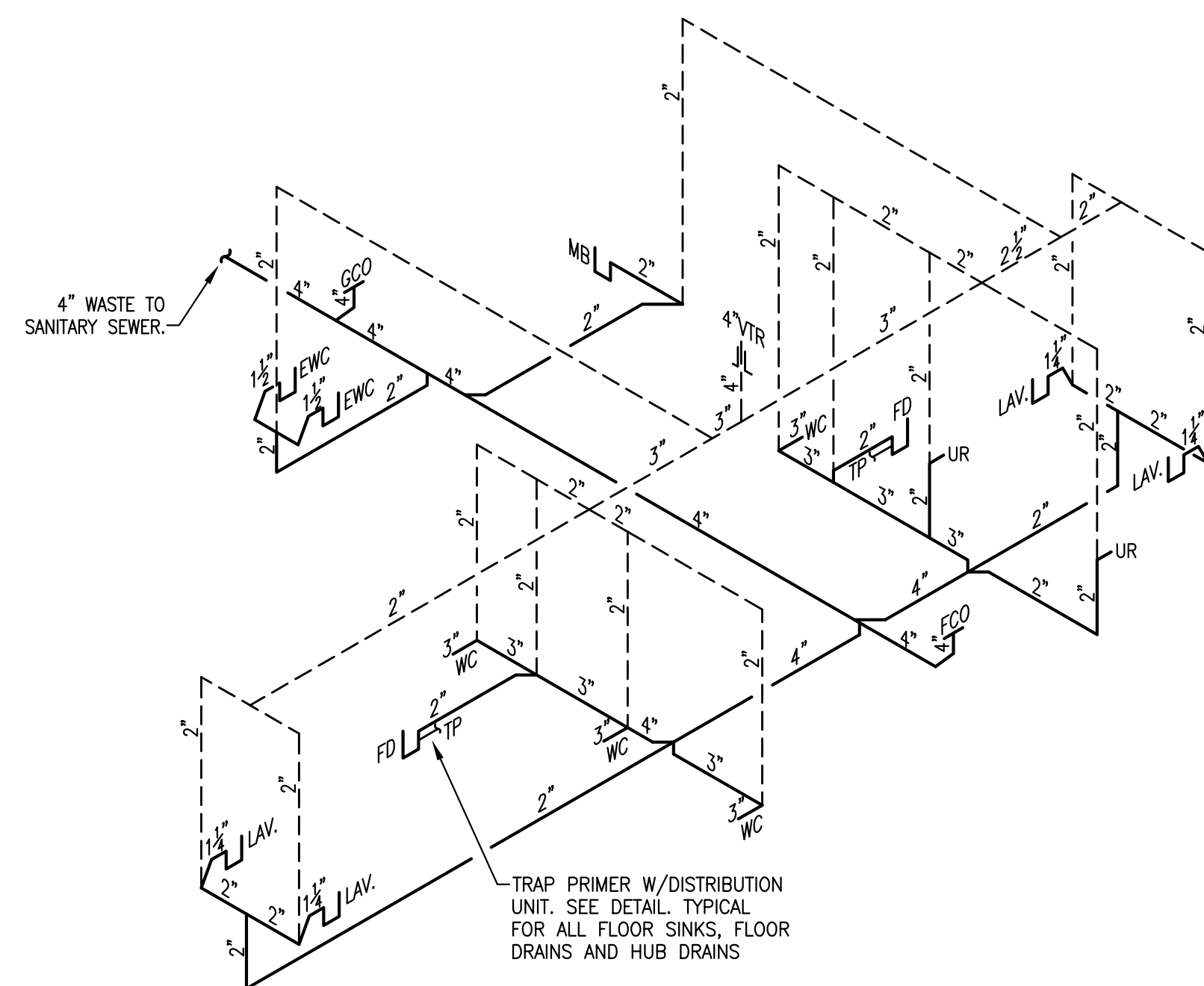




1 WASTE PIPING PLAN
SCALE: 1/4"=1'-0"



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



3 WASTE RISER
SCALE: NO SCALE

FIXTURE UNIT CALCULATIONS (BASED UPON 2018 CODE REQUIREMENTS)									
Fixture Type	Number of Fixtures	Load Value Per Fixture			Load Value Fixture Totals			Drainage Fixture Unit Value (Per Fixture)	Drainage Fixture Unit Value Total
		Cold	Hot	Total	Cold	Hot	Total		
Drinking Fountain	2	0.25	0	0.25	0.5	0	1	0.5	1
Floor Drain	2	0	0	0	0	0	0	2	4
Lavatory Public Faucet	4	1.5	1.5	2	6	6	8	1	4
Anti-Freeze Wall Hydrant	1	3	0	3	3	0	3	0	0
Mop Basin	1	1.5	1.5	3	1.5	1.5	3	2	2
Urinal Public 3/4" Flush Valve	2	5	0	5	10	0	10	4	8
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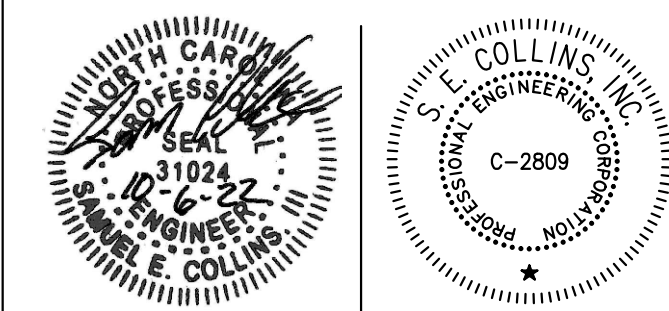
PLUMBING FIXTURE SCHEDULE

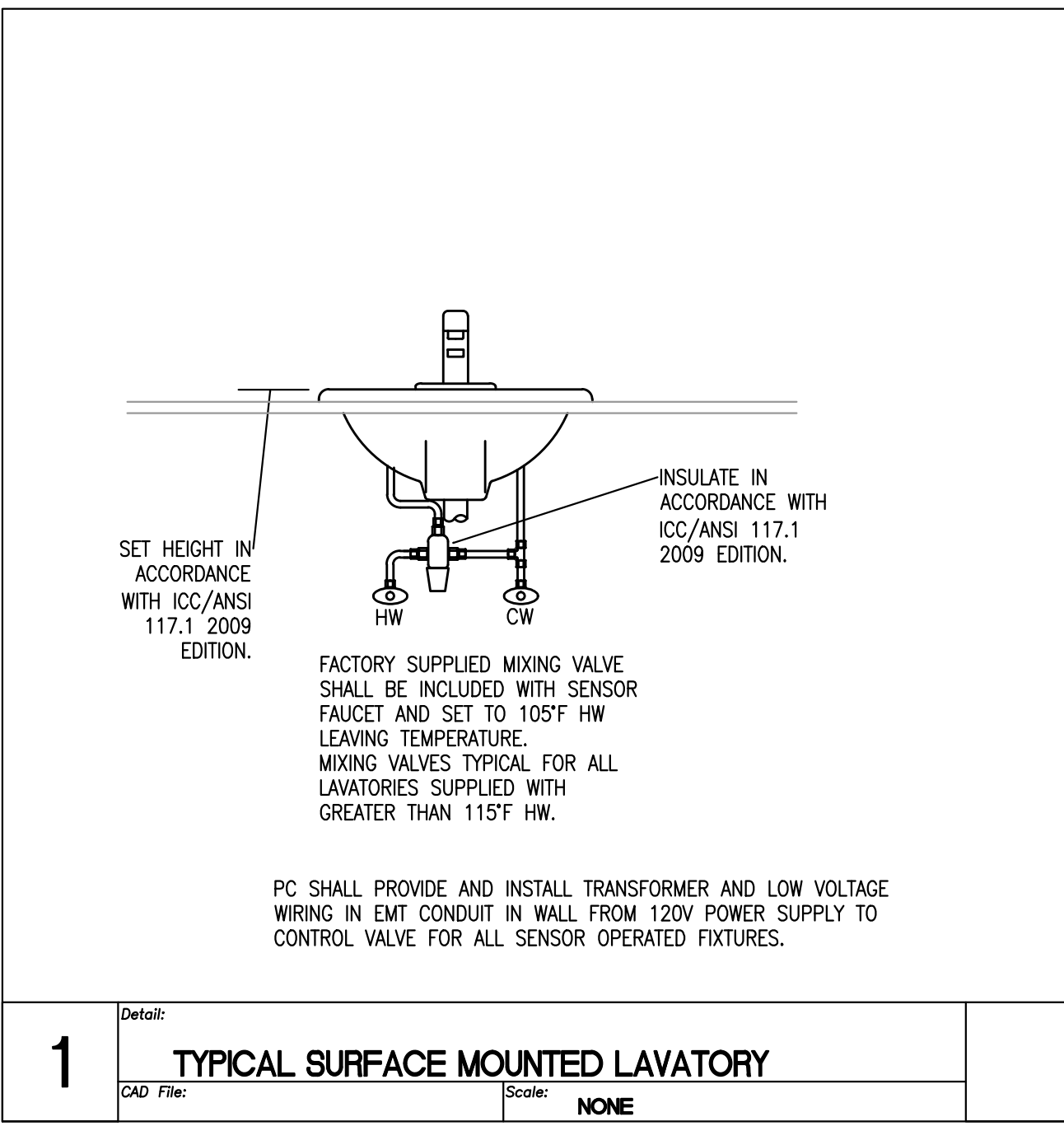
	DESCRIPTION	MFR	MODEL	CW	HW	WASTE	ACCESSORIES
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P3	URINAL ADA WALL MOUNTED, VITREOUS CHINA, MOUNT FOR ADA COMPLIANCE, WHITE	ZURN KOHLER AM. STANDARD	Z5738 EQUAL	3/4"	-	2"	SLOAN OPTIMA 186-1.25 ES-S TMO 24 VOLT, WALL HANGER BRACKETS
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P5	LAVATORY ADA SURFACE MOUNTED, SELF-RIMMING, OVAL, VITREOUS CHINA, 4" CTR DRILLING, INSTALL FOR ADA COMPLIANCE, WHITE	KOHLER ELJER AM. STANDARD	K-2196 EQUAL	3/8"	3/8"	1 1/4"	SLOAN ETF-80 24 VOLT SENSOR FAUCET W/ 0.5 GPM GRID STRAINER W/ OFFSET TAILPIECE, CHROME P-TRAP & STOPS, MCGUIRE PW 2150WC ADA INSUL. KIT AND THERMOSTATIC MIXING VALVE.
P6	MOP BASIN 12" DEEP TERRAZZO MOP RECEPTOR WITH TILING FLANGE(S) AND STAINLESS STEEL	S. WILLIAMS ACORN	SB-902-L 24x24	1/2"	1/2"	3"	T-10-VB FAUCET (ROUGH CHROME) W/ VACUUM BREAKER, T-35 HOSE & HOOK, T-40 MOP HANGER, BP SPLASH PANEL(S)
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PLUMBING WASTE & WATER PIPING PLAN

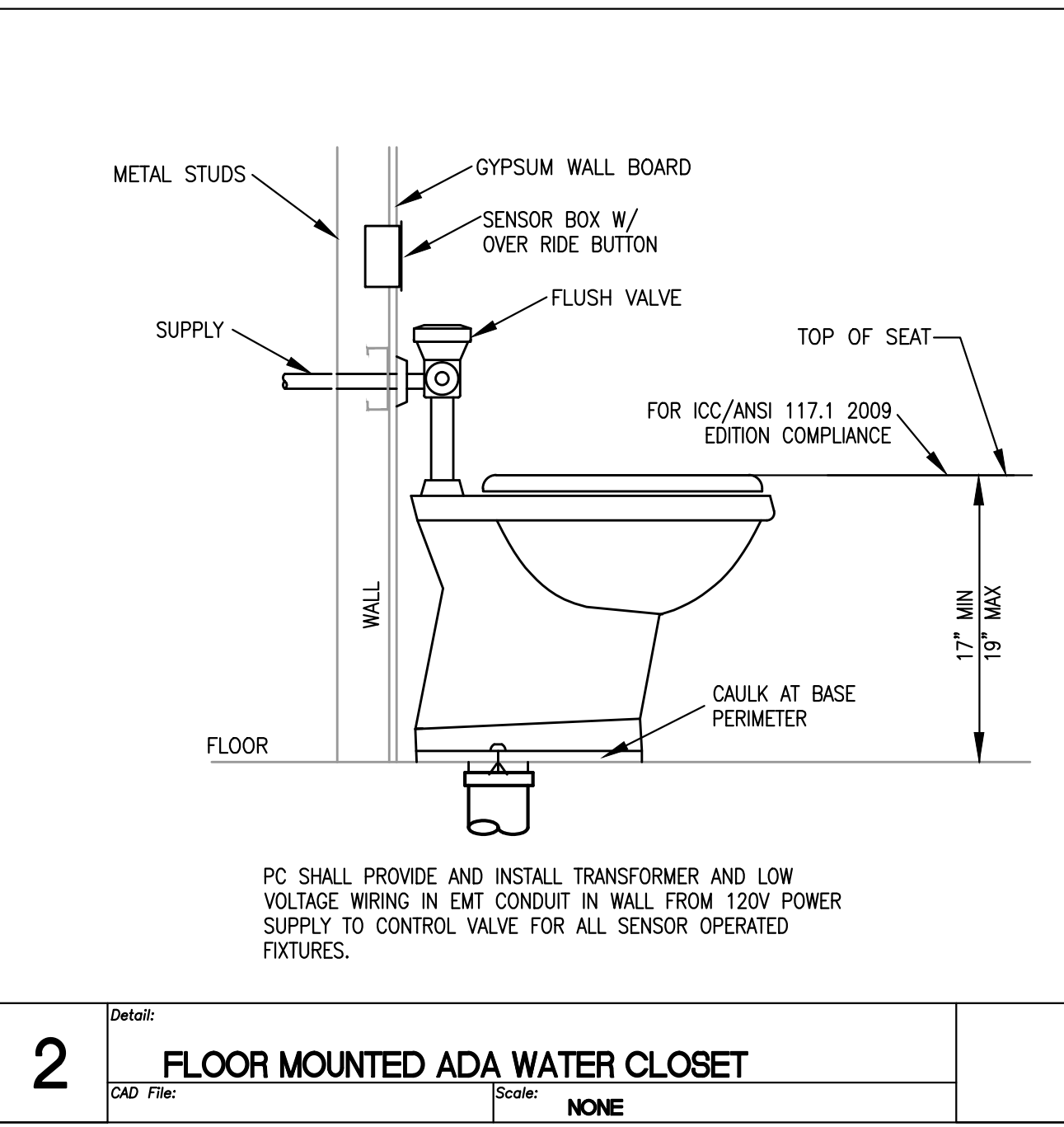
Wrenn Miller Park Toilet

101 Guilford Road
Jamestown, NC 27282

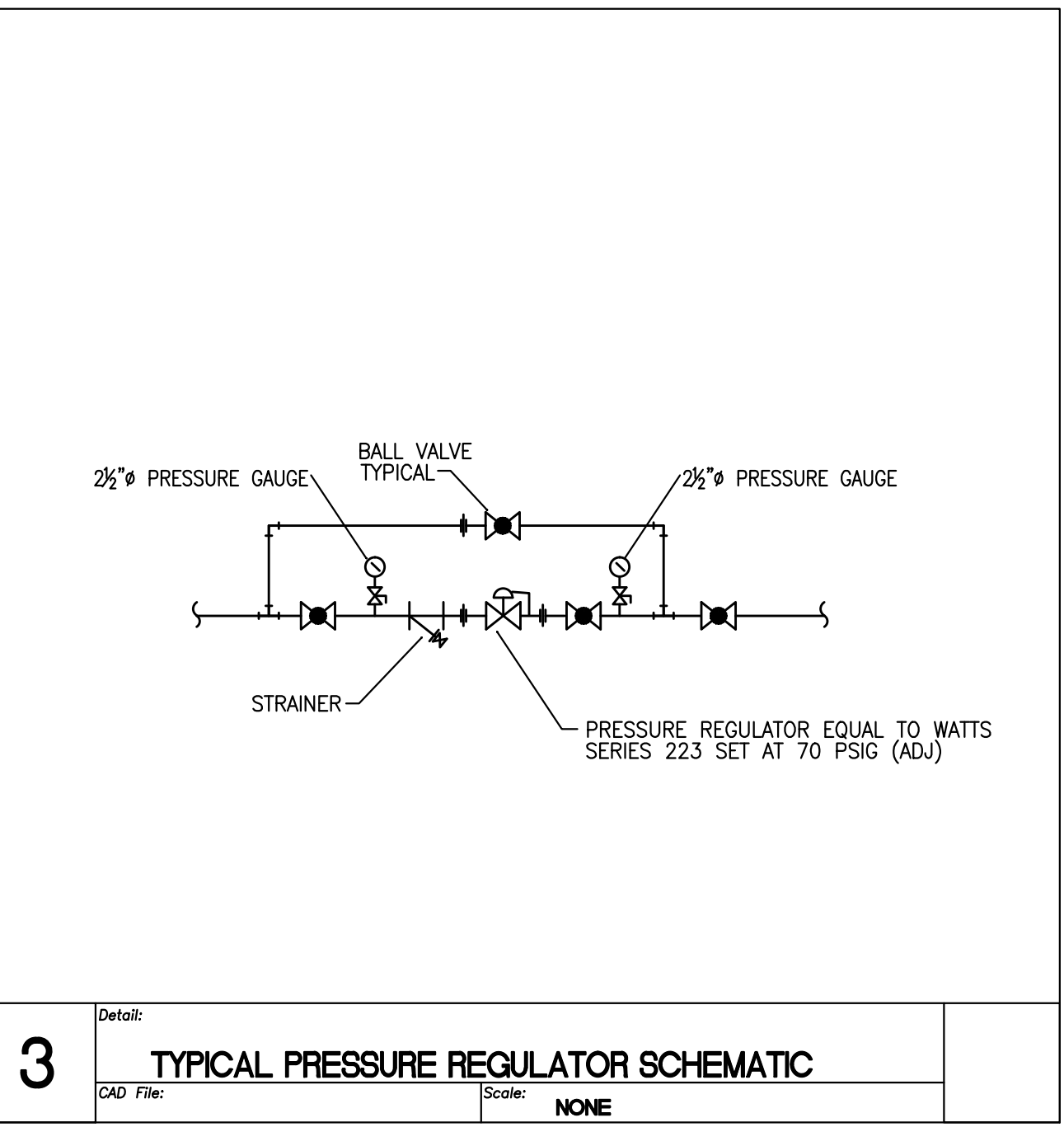




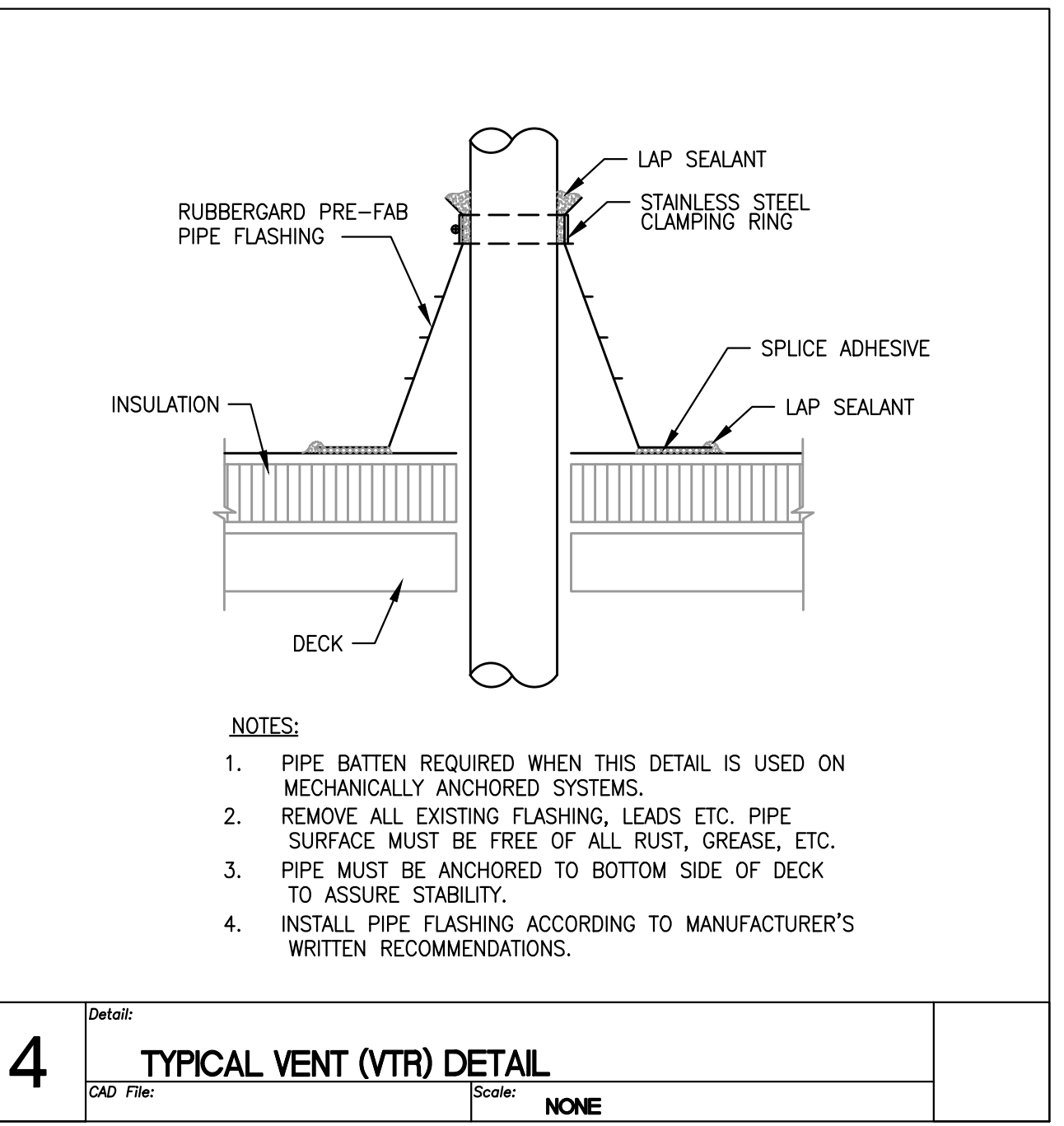
1 TYPICAL SURFACE MOUNTED LAVATORY
Scale: NONE



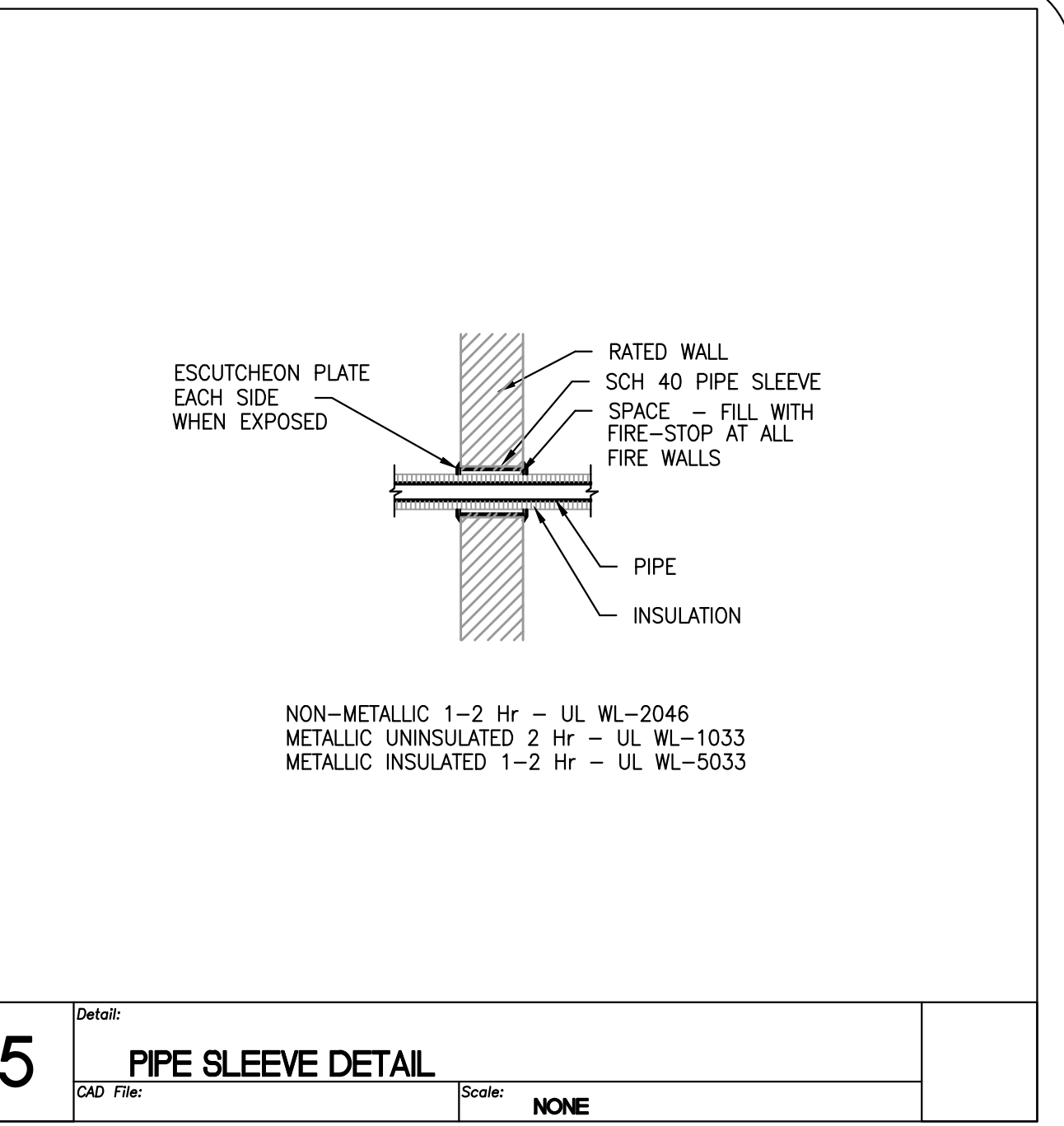
2 FLOOR MOUNTED ADA WATER CLOSET
Scale: NONE



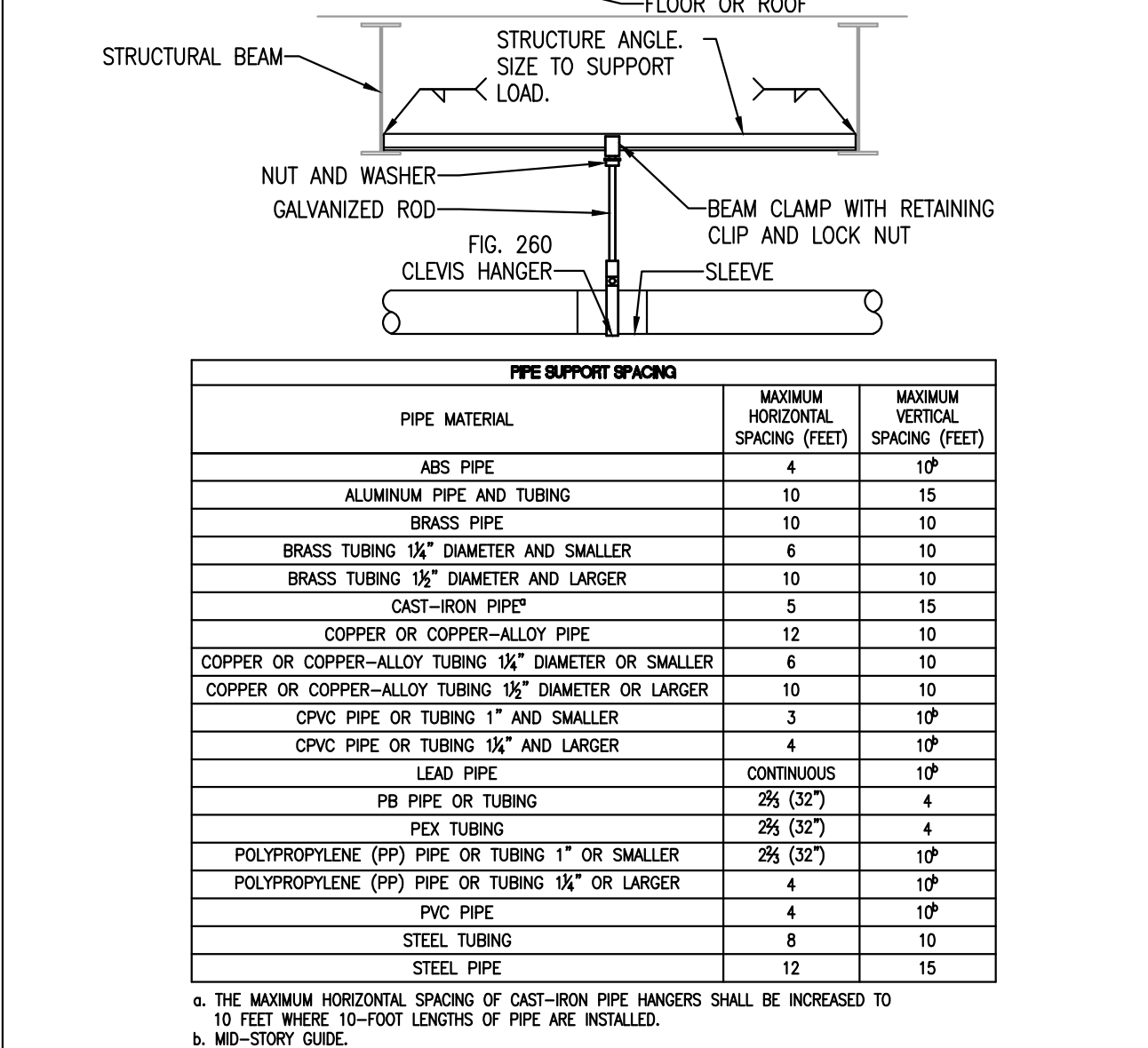
3 TYPICAL PRESSURE REGULATOR SCHEMATIC
Scale: NONE



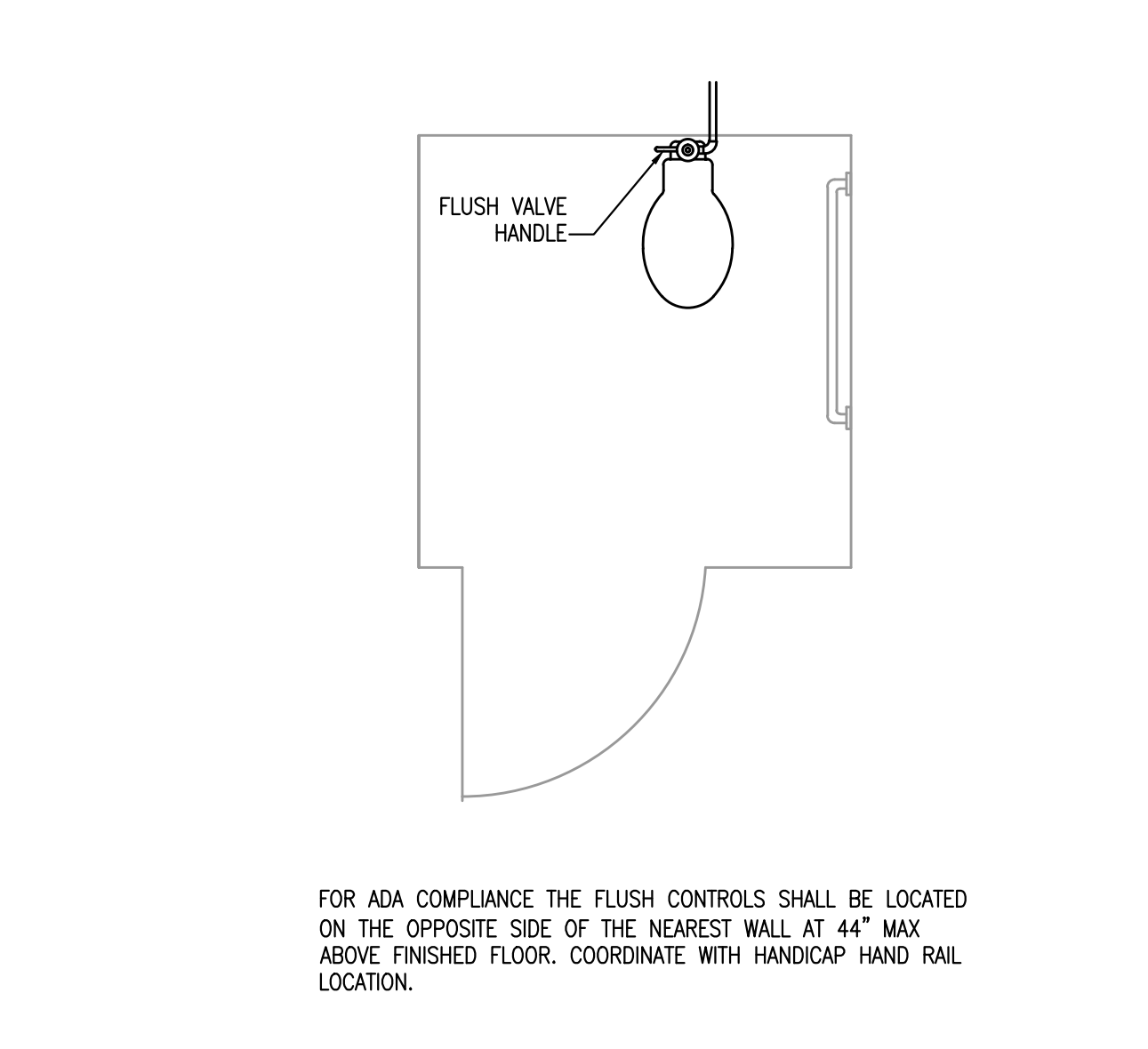
4 TYPICAL VENT (VTR) DETAIL
Scale: NONE



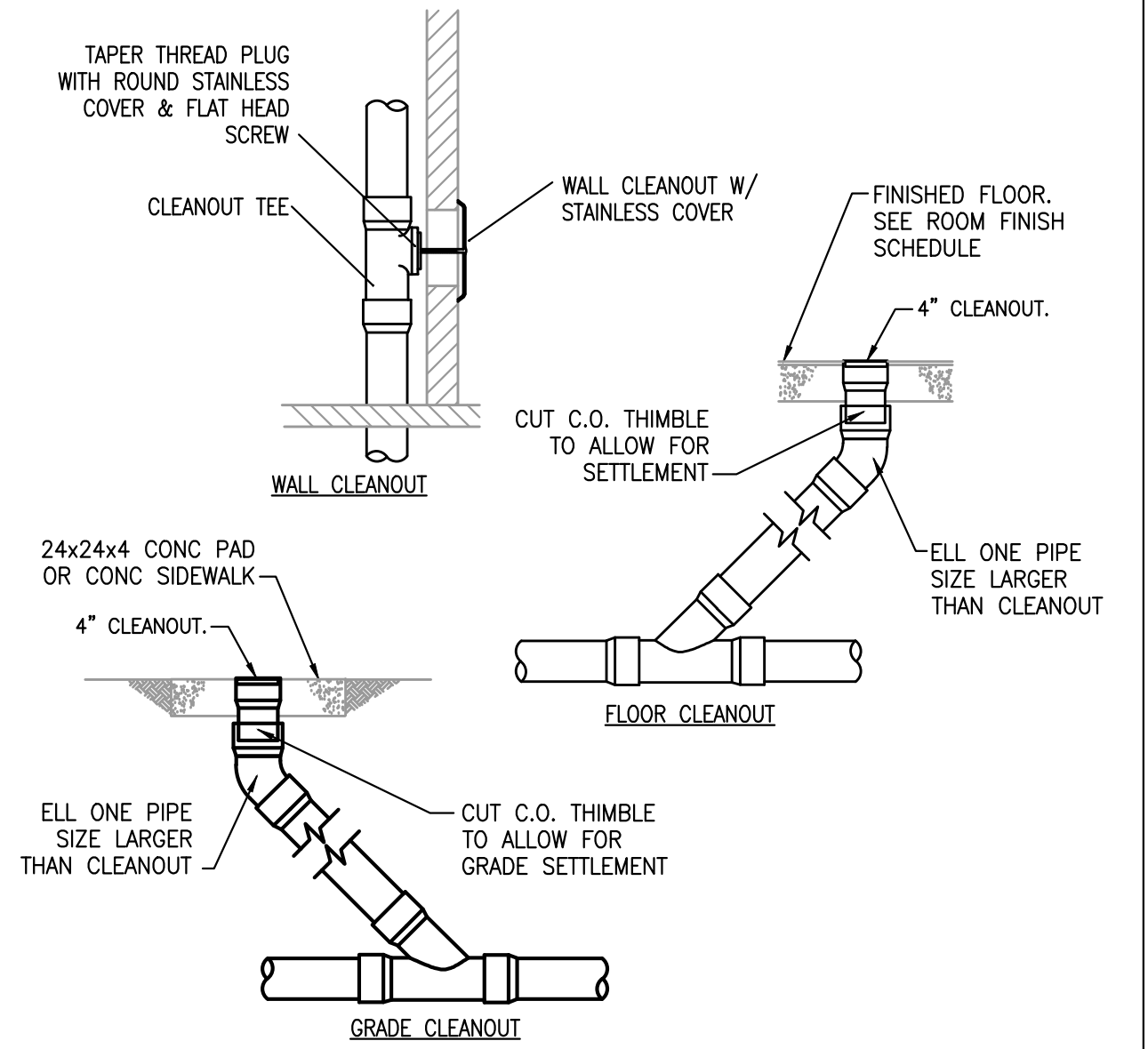
5 PIPE SLEEVE DETAIL
Scale: NONE



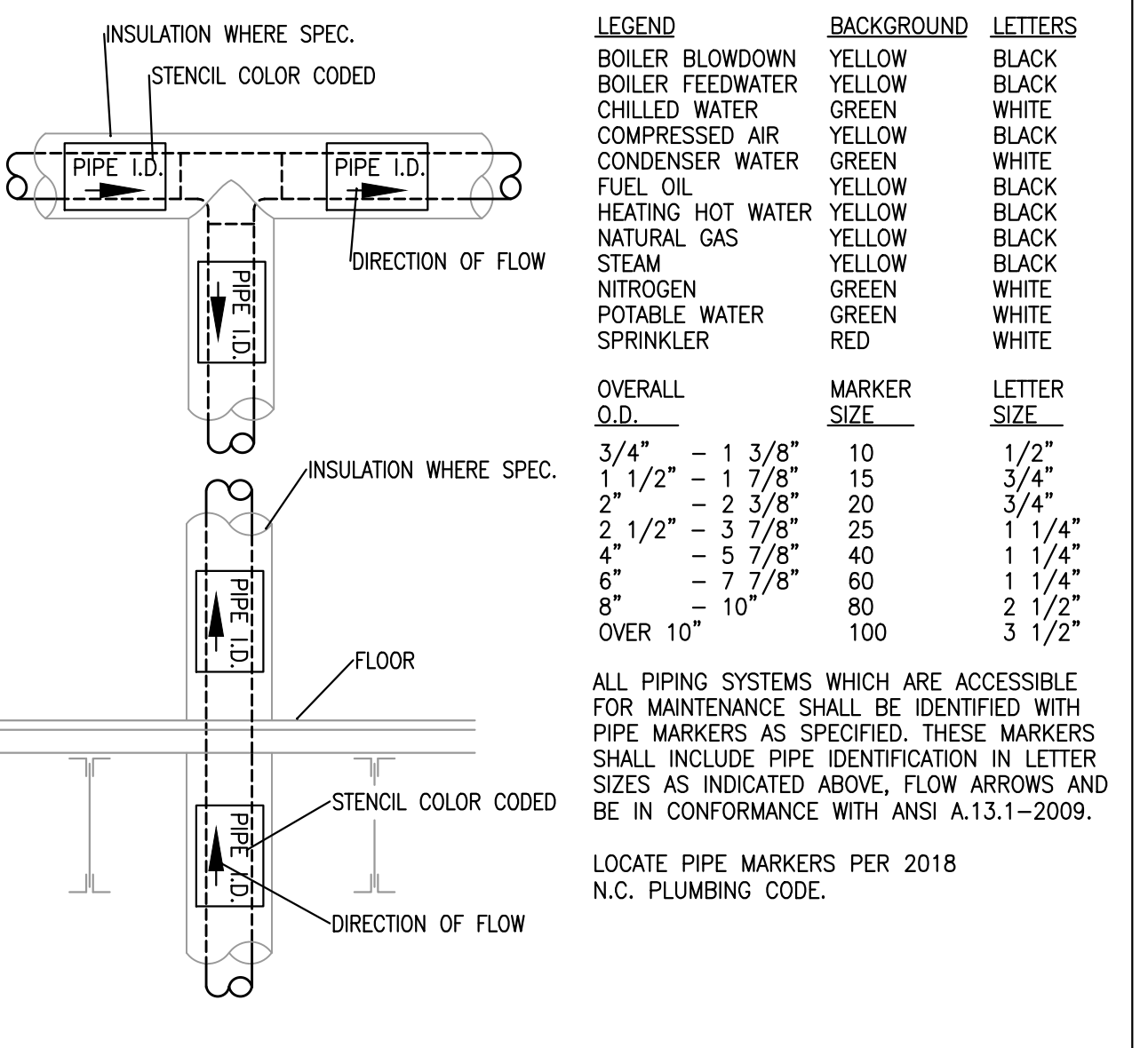
6 TYPICAL PIPE HANGER DETAIL
Scale: NONE



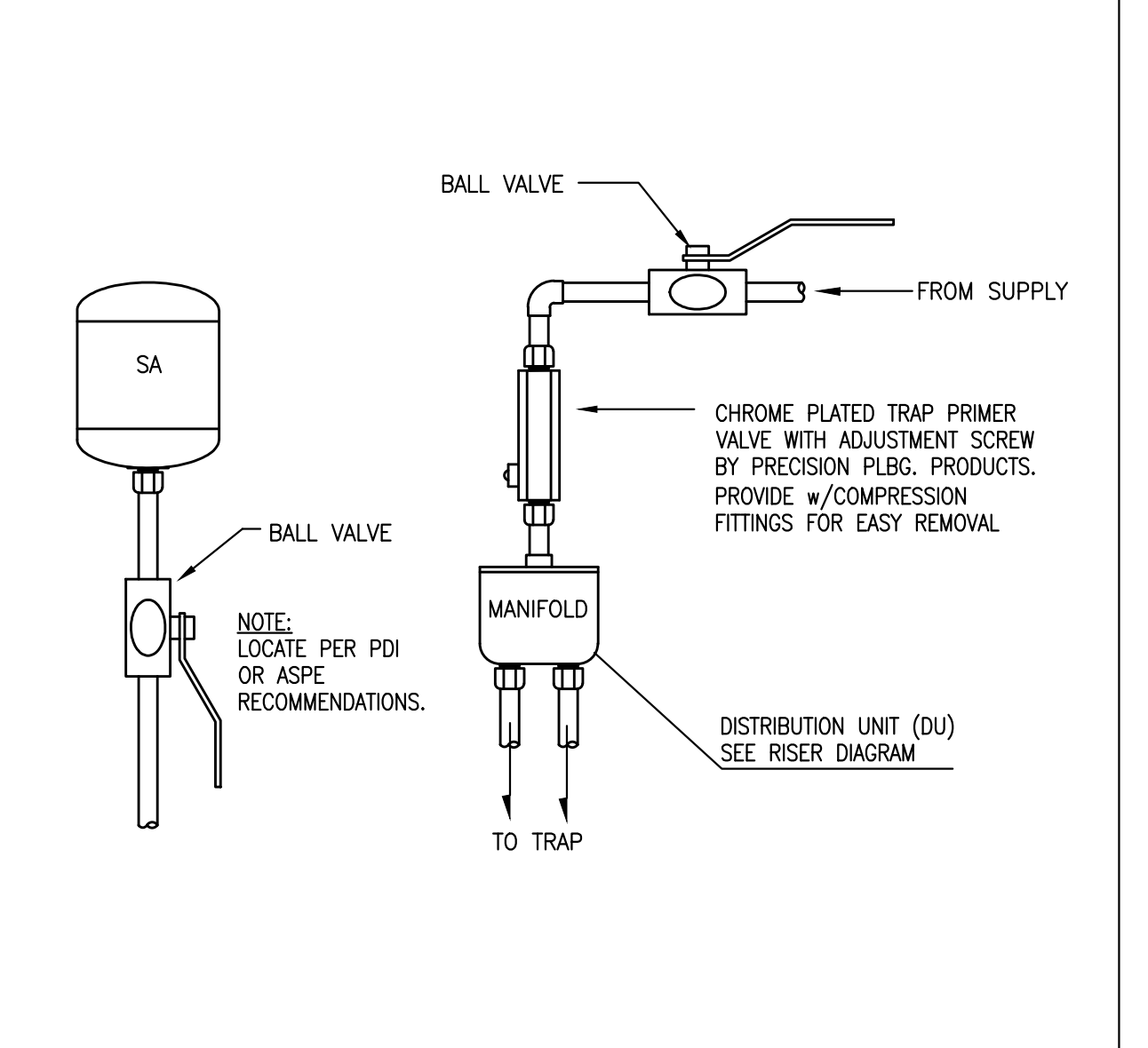
7 FLUSH VALVE HANDLE ORIENTATION
Scale: NONE



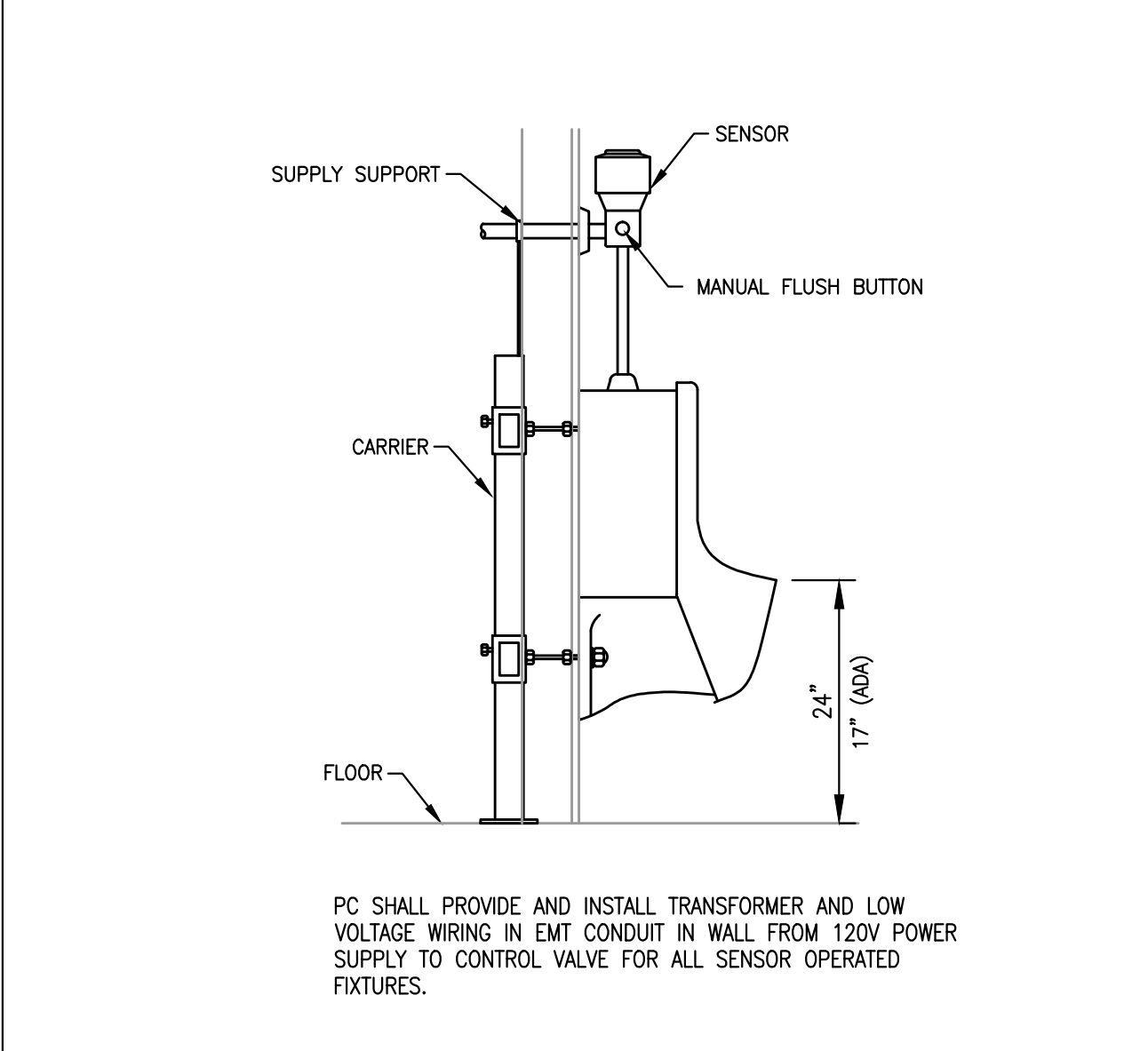
8 CLEANOUT DETAILS
Scale: NONE



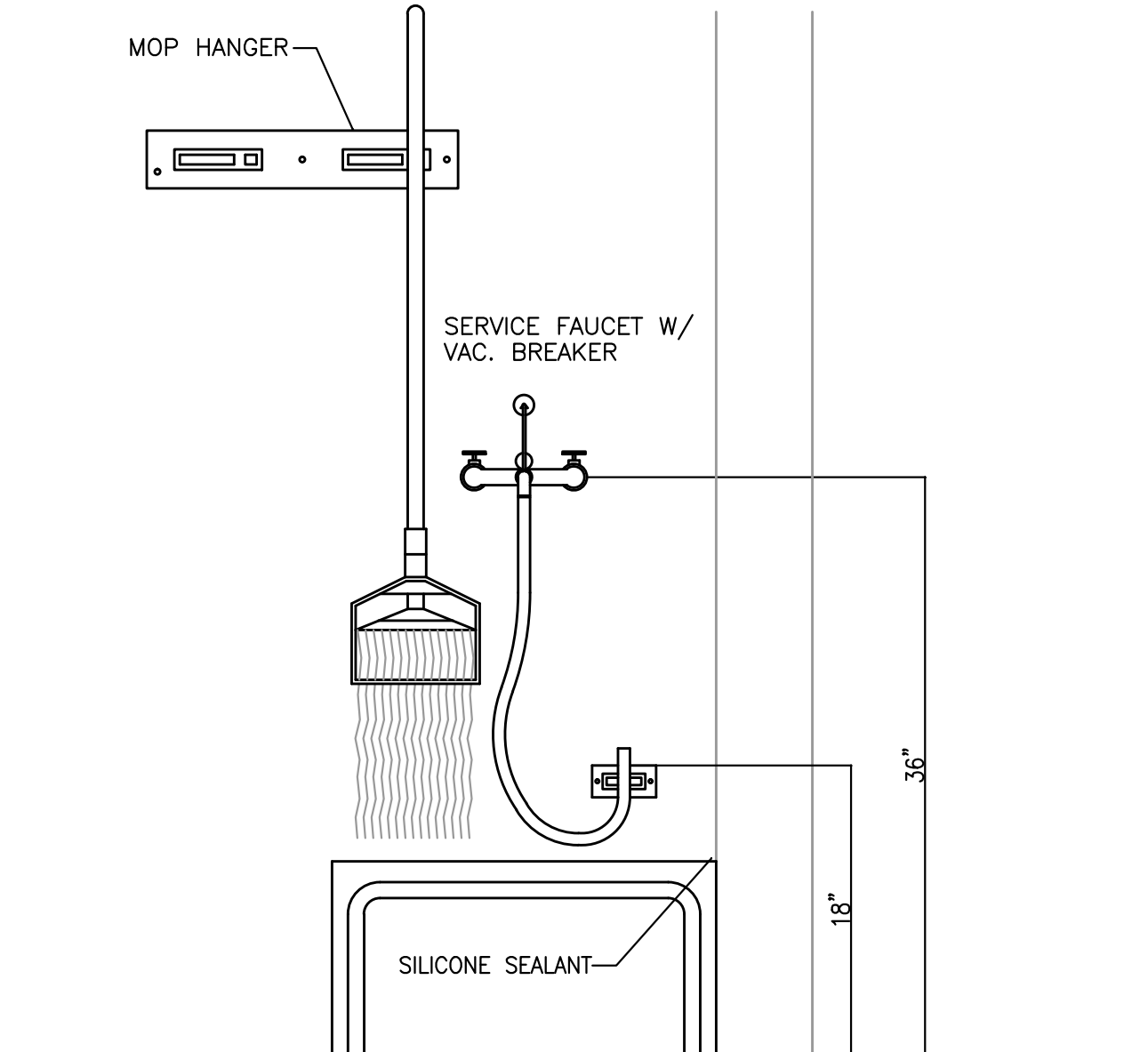
9 PIPE LABELING
Scale: NONE



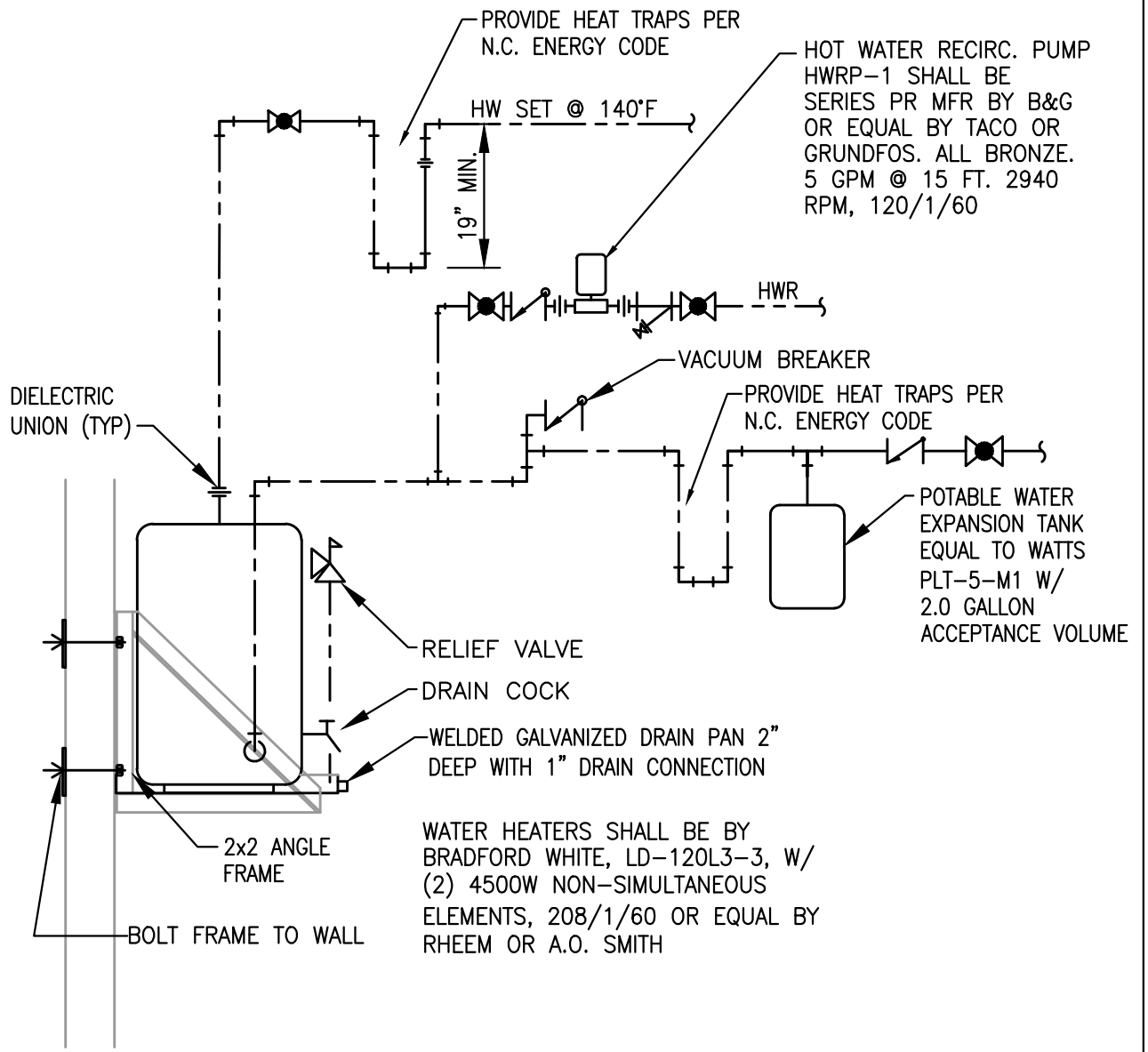
10 SHOCK ABSORBER AND TRAP PRIMER DETAIL
Scale: NONE



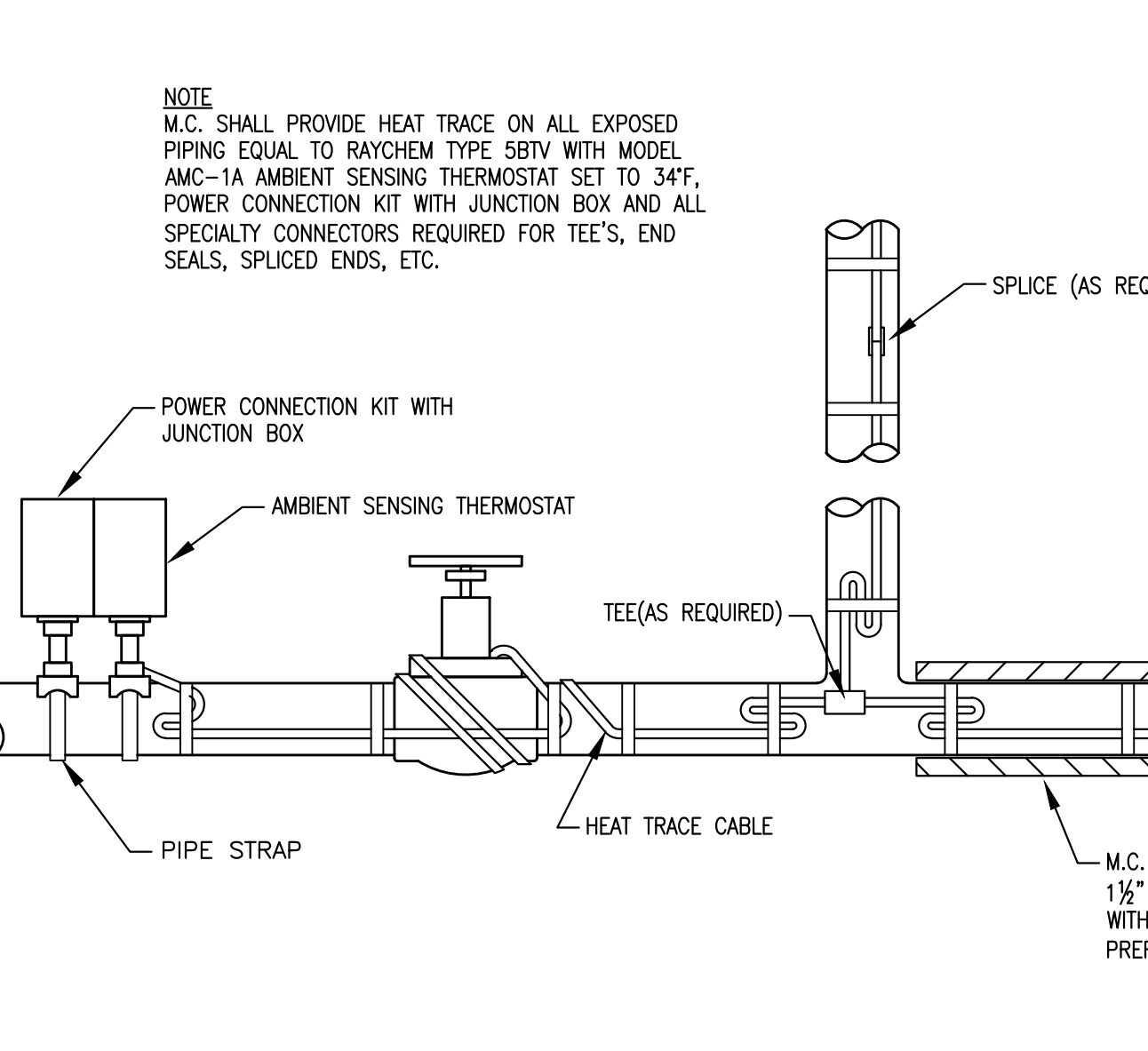
11 URINAL HANGER DETAIL
Scale: NONE



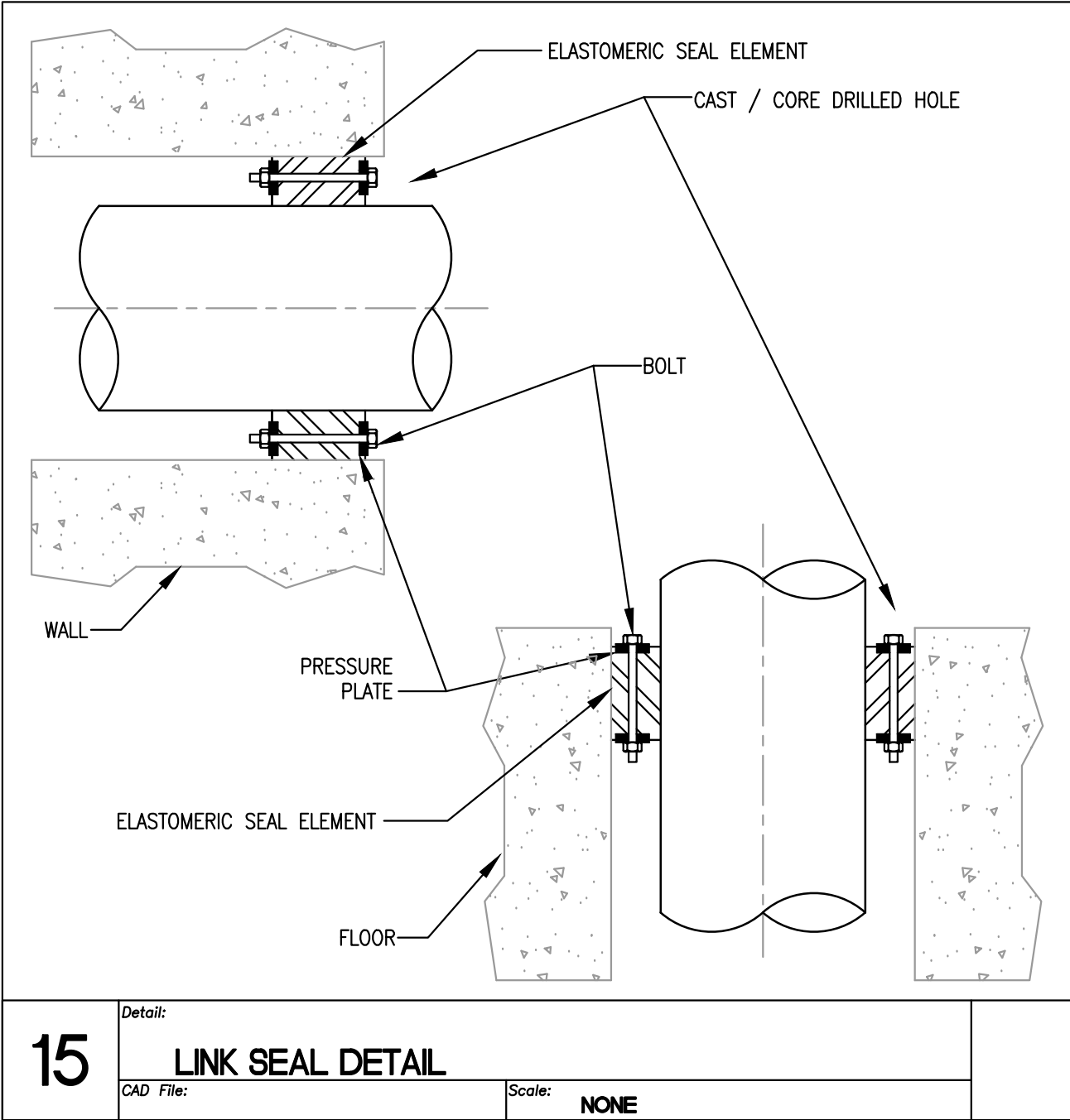
12 MOP BASIN DETAIL
Scale: NONE



13 WATER HEATER SCHEMATIC
Scale: NONE



14 TYPICAL HEAT TRACE DETAIL
Scale: NONE

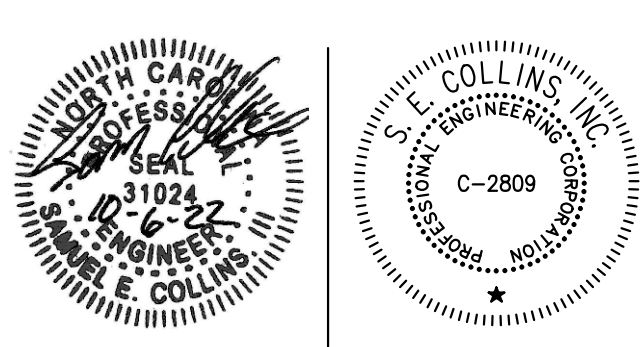


15 LINK SEAL DETAIL
Scale: NONE

PLUMBING DETAILS

Wrenn Miller Park Toilet

101 Guilford Road
Jamestown, NC 27282



- NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)
- EXISTING CT CAN AND PANEL 'A' IN MECHANICAL BUILDING TO BE RELOCATED TO TOILET BUILDING. REFER TO ELECTRICAL RISERS 1/E1.3 AND 2/E1.3 FOR ADDITIONAL INFORMATION.
 - E.C. SHALL INSTALL QUAZITE PULL BOX AT EXISTING LOCATION OF PANEL 'A'. INTERCEPT EXISTING HOMERUNS 'A'-1, 'A'-3.5 AND CONDUIT TO STAGE PANEL AND EXTEND TO NEW LOCATION OF PANEL 'A'. REFER TO ELECTRICAL RISERS 1/E1.3 AND 2/E3.1 FOR ADDITIONAL INFORMATION.
 - ELECTRICAL SERVICE ENTRANCE BY DUKE ENERGY. E.C. TO RUN CONDUIT FOR SERVICE ENTRANCE TO LOCATION SPECIFIED BY DUKE ENERGY. DO NOT RUN CONDUIT IN FOOTPRINT OF NEW TOILET BUILDING. COORDINATE CONDUIT SIZE AND OTHER REQUIREMENTS WITH DUKE ENERGY PRIOR TO INSTALLATION. REFER TO ELECTRICAL RISER 2/E3.1 FOR ADDITIONAL INFORMATION.
 - EXTEND EXISTING HOMERUN TO NEW LOCATION OF PANEL 'A' VIA QUAZITE PULL BOX. REFER TO ELECTRICAL RISERS 1/E1.3 AND 2/E1.3 FOR ADDITIONAL INFORMATION.
 - EXISTING CONDUIT AND WIRE TO PANEL 'A' FROM STAGE PANEL. E.C. SHALL DEMOLISH WIRING AND LEAVE EXISTING CONDUIT FOR REUSE.
 - EXTEND EXISTING HOMERUNS 'A'-1 AND 'A'-3.5 TO NEW LOCATION OF PANEL 'A'. EXTEND CONDUIT TO STAGE PANEL TO NEW LOCATION OF PANEL 'A' AND USE CONDUIT TO RUN NEW WIRING TO STAGE PANEL. REFER TO ELECTRICAL RISER 1/E1.3 FOR ADDITIONAL INFORMATION.

ELECTRICAL SYSTEM AND EQUIPMENT
 METHOD OF COMPLIANCE

Energy Code: PRESCRIPTIVE PERFORMANCE
 ASHRAE 90.1: PRESCRIPTIVE PERFORMANCE

LIGHTING SCHEDULE
 Lamp type required in fixture See Lighting Schedule On Dwg. E2.1
 number of lamps in fixture _____
 ballast type used in the fixture _____
 number of ballast in fixture _____
 total wattage per fixture _____
 total interior wattage specified vs allowed 452 W VS 552 W
 (whole building or space by space)
 total exterior wattage specified vs allowed 108 W VS 750 W

ADDITIONAL PRESCRIPTIVE 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

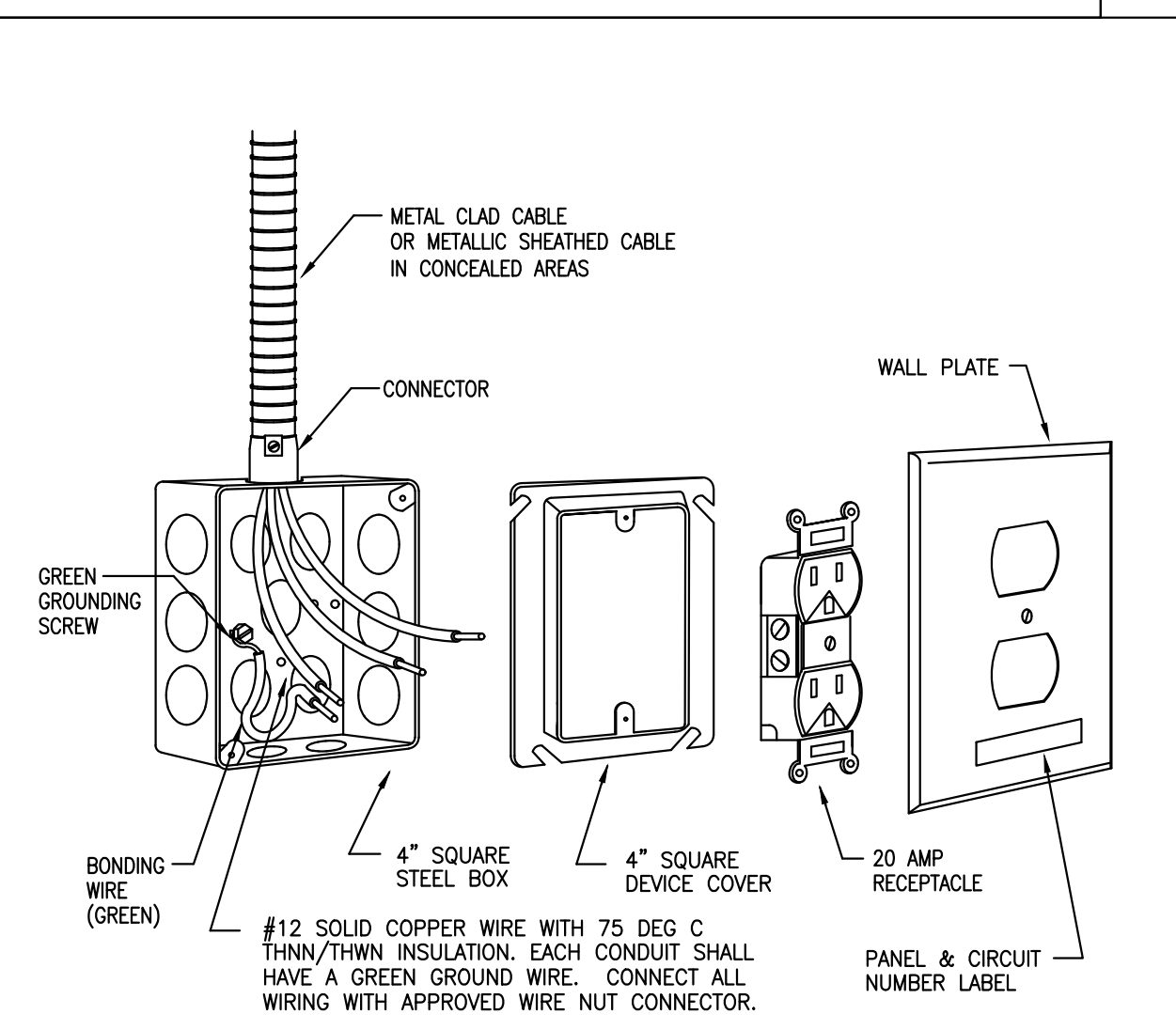
DESIGNER STATEMENT:
 To the best of my knowledge and belief, the design of this building complies with the thermal envelope requirements of the North Carolina State Building Code, 2018 Energy Conservation Code.

NAME: DAVID S. SMITH
 TITLE: ELECTRICAL ENGINEER

2 ENERGY CODE
 E1.1 SCALE: NONE

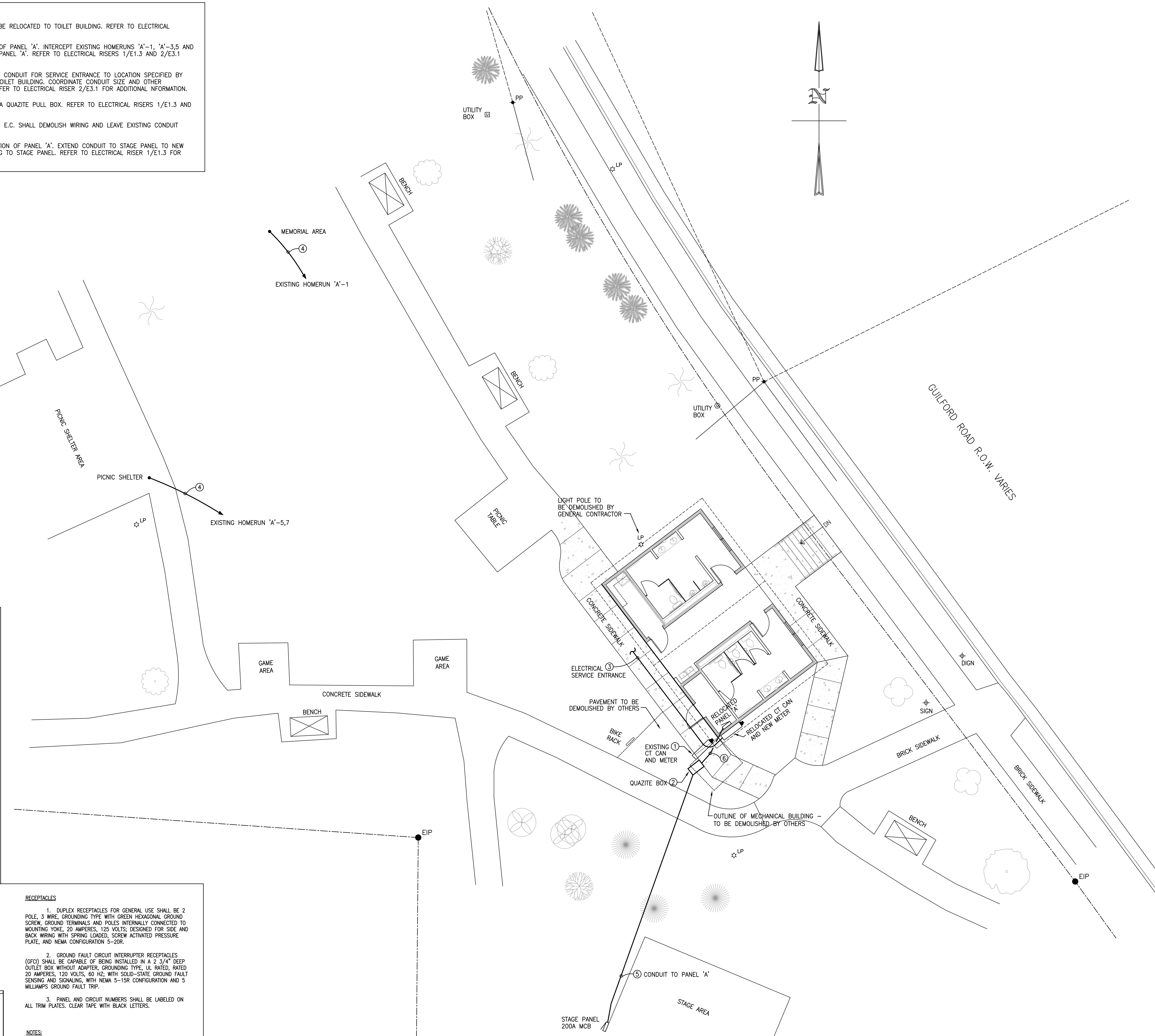
- CODES**
- WORK AND MATERIALS SHALL CONFORM TO THE LATEST RULES OF THE NATIONAL BOARD OF FIRE UNDERWRITERS' CODE, REGULATIONS OF THE STATE FIRE MARSHAL, AND WITH APPLICABLE LOCAL CODES AND WITH ALL PREVAILING RULES AND REGULATIONS PERTAINING TO ADEQUATE PROTECTION AND/OR GUARDING OF ALL MOVING PARTS, OR OTHERWISE HAZARDOUS CONDITIONS. NOTHING IN THESE SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF APPLICABLE CODES.
 - THE NATIONAL ELECTRIC CODE, THE LOCAL ELECTRIC CODE, AND THE ELECTRICAL REQUIREMENTS AS ESTABLISHED BY THE STATE AND LOCAL FIRE MARSHAL, AND RULES AND REGULATIONS OF THE POWER COMPANY SERVING THE PROJECT, ARE HEREBY MADE PART OF THE DRAWINGS OR SPECIFICATIONS TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL SO NOTIFY THE ARCHITECT.
 - CONDUCTOR MATERIAL**
 - THE CONDUCTOR MATERIAL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED
 - FEEDERS SHALL BE TYPE THHN OR THWN RATED AT 75 DEGREES CENTIGRADE.
 - CONDUCTORS INDICATED ON THE DRAWINGS ARE BASED ON COPPER.
 - ALL CONDUCTORS WITH THE SIZE OF NO. 8 OR LARGER SHALL STRANDED.
 - ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.

3 ELECTRICAL SPECIFICATIONS
 E1.1 SCALE: NONE



4 TYPICAL RECEPTACLE DETAIL
 E1.1 SCALE: NONE

- RECEPTACLES**
- DUPLEX RECEPTACLES FOR GENERAL USE SHALL BE 2 POLE, 3 WIRE, GROUNDING TYPE WITH GREEN HEXAGONAL GROUND SCREW, GROUND TERMINALS AND POLES INTERNALLY CONNECTED TO MOUNTING YORE, 20 AMPERES, 120 VOLTS, DESIGNED FOR SIDE AND BACK WIRING WITH SPRING LOADED, SCREW ACTIVATED PRESSURE PLATE, AND NEMA CONFIGURATION 5-20R.
 - GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES (GFCI) SHALL BE CAPABLE OF BEING INSTALLED IN A 2 3/4" DEEP OUTLET BOX WITHOUT ADAPTER, GROUNDING TYPE, UL RATED, RATED 20 AMPERES, 120 VOLTS, 60 HZ, WITH SOLID-STATE GROUND FAULT SENSING AND SIGNALING, WITH NEMA 5-15R CONFIGURATION AND 5 MLLIAMS GROUND FAULT TRIP.
 - PANEL AND CIRCUIT NUMBERS SHALL BE LABELED ON ALL TRIM PLATES, CLEAR TAPE WITH BLACK LETTERS.
- NOTES:**
 RECEPTACLE OUTLET BOXES: RECEPTACLES SHALL BE MOUNTED APPROXIMATELY 18 INCHES ABOVE THE FINISHED FLOOR (AFF) UNLESS OTHERWISE NOTED. WHEN THE RECEPTACLE IS MOUNTED IN A MASONRY WALL THE BOTTOM OF THE OUTLET BOX SHALL BE IN LINE WITH THE BOTTOM OF A MASONRY UNIT.
 ALL CONDUIT JOINTS SHALL BE CUT SQUARE, REAMED SMOOTH AND DRAWN UP TIGHT.
 INSTALL CONDUCTORS IN ALL RACEWAYS IN A NEAT AND WORKMAN MANNER. CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
 DEVICES SHALL BE MOUNTED TIGHTLY TO BOXES, AND ADJUSTED PLUMB AND LEVEL.

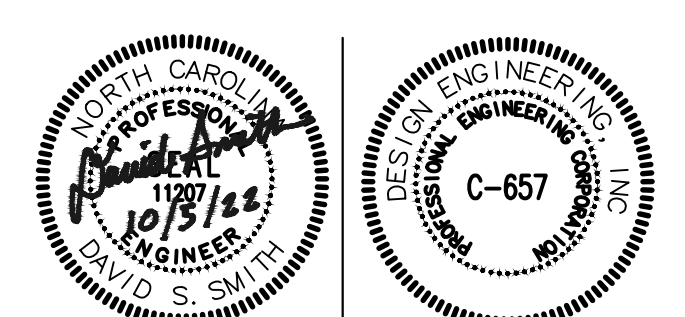


1 ELECTRICAL SITE PLAN
 E1.1 SCALE: 1/8" = 1'-0"
 SCALE: 1/8" = 1'

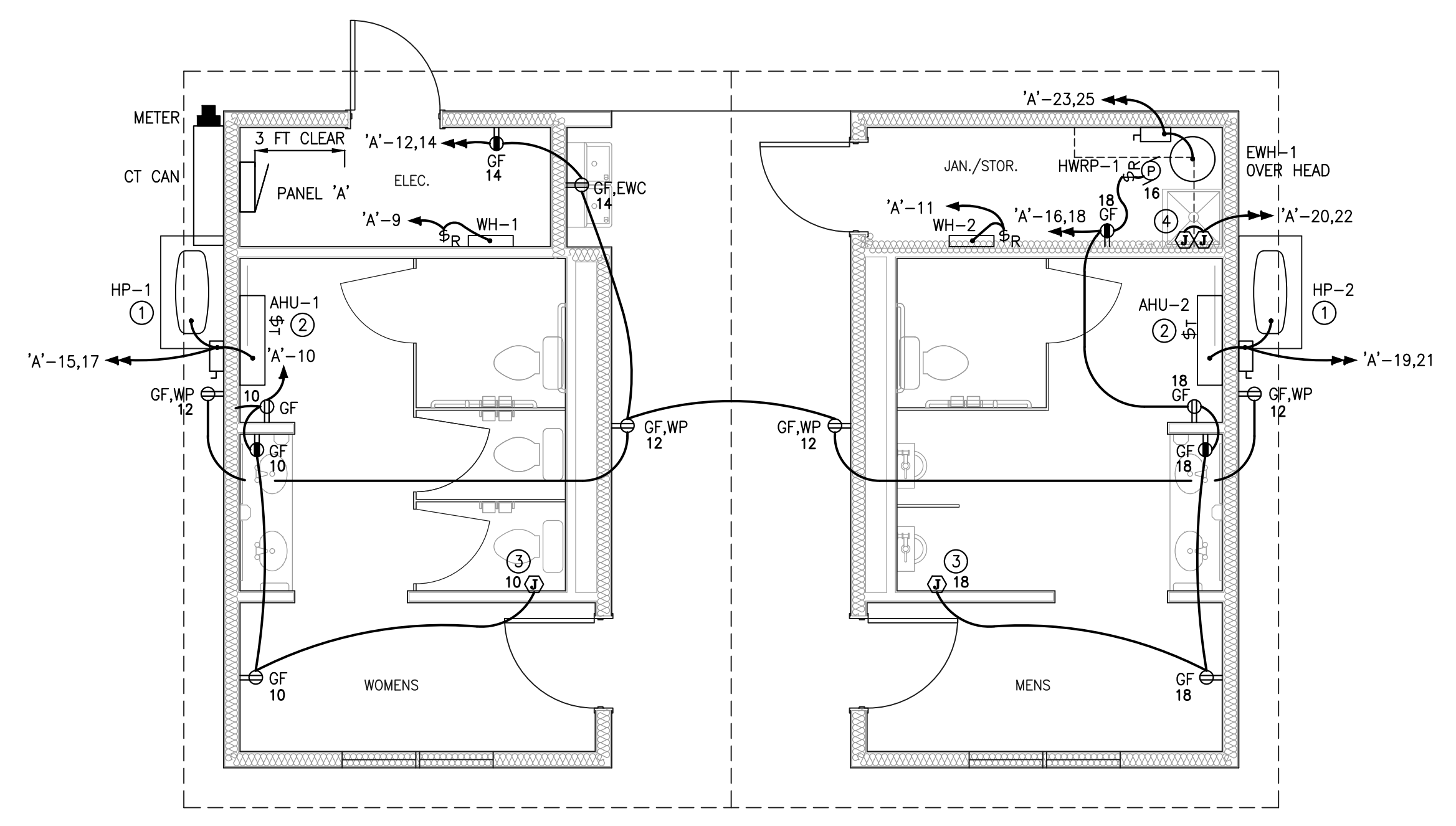
ELECTRICAL SITE PLAN

Wrenn Miller
 Park Toilet

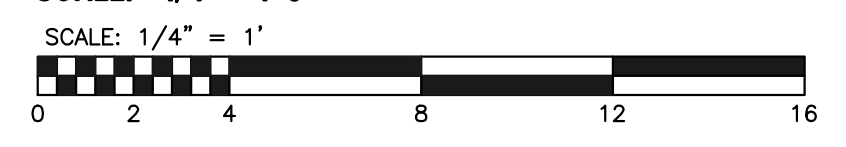
101 Guilford Road
 Jamestown, NC 27282



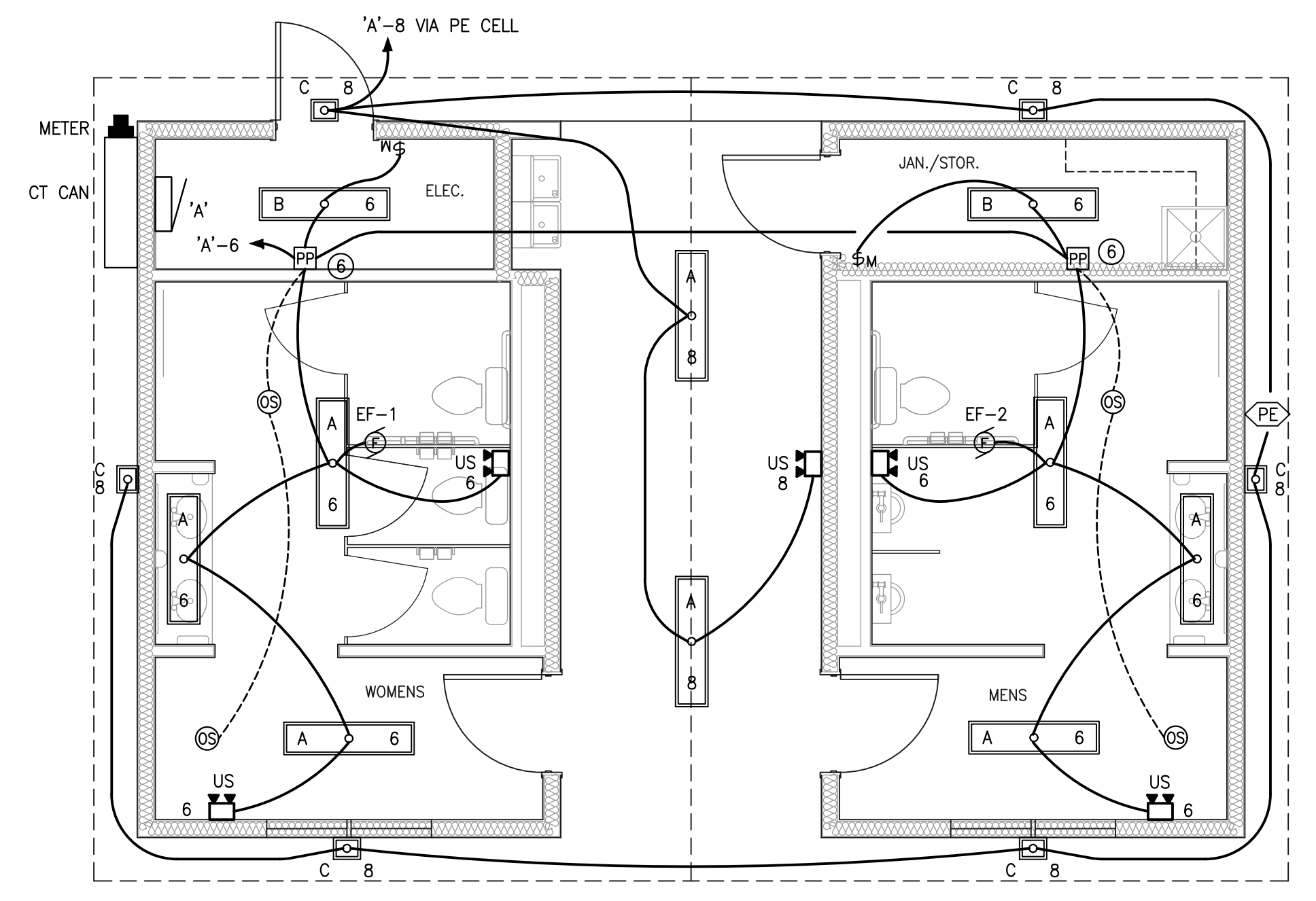
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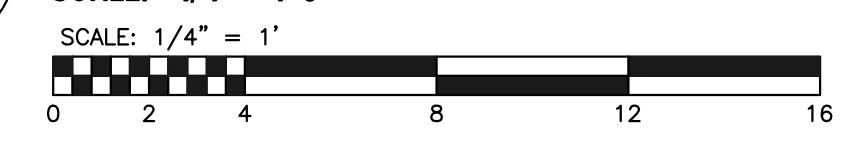
1 POWER PLAN
E1.2 SCALE: 1/4" = 1'-0"



A'-13
 2#10, 1#10 GND., 1" C
 WATER RPZ



2 LIGHTING PLAN
E1.2 SCALE: 1/4" = 1'-0"



BRANCH CIRCUIT CONDUCTORS
 FOR CIRCUITS WITH BRANCH CIRCUIT PROTECTION RATED 20 AMPERES OR LESS, CONDUCTORS SHALL BE SIZED AS FOLLOWS:

VOLTS	DISTANCE	HOME RUN	REMAINDER OF CIRCUIT
120/208	0 - 60'-0"	#12	#12
	60'-0" - 100'-0"	#10	#12
	100'-0" - 150'-0"	#8	#10

3 VOLTAGE DROP TABLE
E1.2 SCALE: NONE

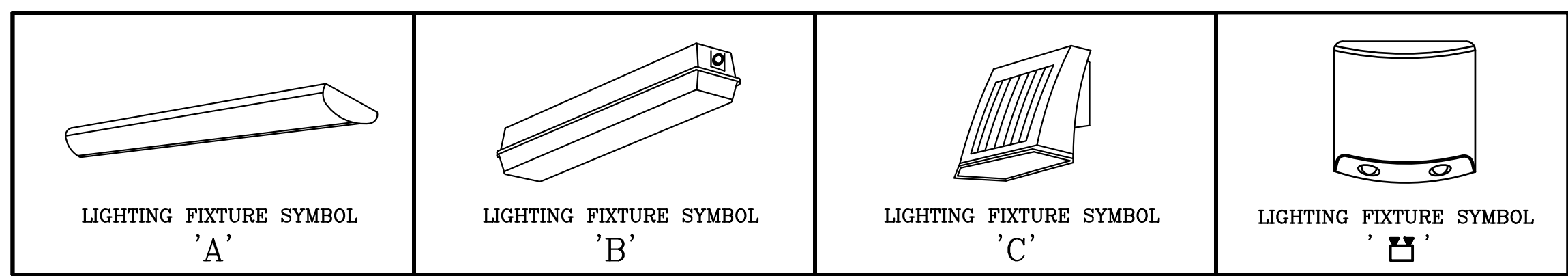
- NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)
- HP-1 POWERS AHU-1 AND HP-2 POWERS AHU-2. ALL INTERCONNECTING WIRE AND CONDUIT BY E.C.
 - MECHANICAL CONTRACTOR WILL PROVIDE CONDENSE PUMP AT AHU UNIT IF REQUIRED. IF PUMP IS INSTALLED E.C. WILL PROVIDE POWER TO PUMP FROM NEAREST 120 VA. CIRCUIT. PROVIDE TOGGLE SWITCH FOR DISCONNECT.
 - JUNCTION BOX FOR POWER TO LOW VOLTAGE TRANSFORMER - TRANSFORMER TO PROVIDE POWER TO PLUMBING FIXTURES SENSOR FAUCETS AND FLUSH VALVES. PLUMBING CONTRACTOR WILL PROVIDE TRANSFORMER AND ALL LOW VOLTAGE WIRING. E.C. WILL PROVIDE JUNCTION BOX WITH CIRCUIT ONLY. COORDINATE LOCATION OF JUNCTION BOX WITH PLUMBING CONTRACTOR.
 - JUNCTION BOXES FOR POWER TO HEAT TRACE ON ATTIC PIPING OVER UNHEATED AREAS. E.C. TO PROVIDE JUNCTION BOXES WITH CIRCUITS ONLY. MECHANICAL CONTRACTOR TO PROVIDE HEAT TRACE WITH POWER CONNECTION KIT. COORDINATE LOCATIONS OF JUNCTION BOXES WITH MECHANICAL CONTRACTOR.
 - POWER TO ELECTRIC HEAT FOR RPZ FOR WATER LINE. REFER TO CIVIL DRAWINGS FOR LOCATION OF RPZ.
 - PROVIDE STEEL BOX TO INSTALL POWER PACK IN MOUNT BOX AS HIGH AS POSSIBLE ON WALL. RUN LOW VOLTAGE CABLING TO OCCUPANCY SENSORS IN CONDUIT ABOVE GYPSUM BOARD CEILING.

ELECTRICAL DISCONNECT SCHEDULE - MECHANICAL & PLUMBING EQUIPMENT

UNIT	POWER V/P/PHZ	MCA	MOPD	WATTS	FLA	DISCONNECT
MINI-SPLIT AHU-1						FACTORY MOUNTED DISCONNECT
MINI-SPLIT AHU-2						FACTORY MOUNTED DISCONNECT
HP-1	208/1/60	7.0	15	-	-	30 AMP HD NEMA 3R DISCONNECT, FUSED AT 15 AMP, BY E.C.
HP-2	208/1/60	7.0	15	-	-	30 AMP HD NEMA 3R DISCONNECT, FUSED AT 15 AMP, BY E.C.
WH-1	120/1/60	-	-	1500	-	HUBBELL (OR EQUAL) CATALOG # HBL7832D HEAVY DUTY AC MANUAL MOTOR CONTROLLER (SUITABLE AS MOTOR DISCONNECT) 30A, DOUBLE POLE, SINGLE THROW, BY E.C.
WH-2	120/1/60	-	-	1500	-	DISCONNECT 30A, DOUBLE POLE, SINGLE THROW, BY E.C.
EWH-1 (WATER HEATER)	208/1/60	-	-	(2) 4500 NON-SIM	-	30 AMP HD FUSED DISCONNECT, FUSED AT 30 AMP, BY E.C.
HWRP-1	120/1/60	-	-	-	-	HUBBELL (OR EQUAL) CATALOG # HBL7832D HEAVY DUTY AC MANUAL MOTOR CONTROLLER (SUITABLE AS MOTOR DISCONNECT) 30A, DOUBLE POLE, SINGLE THROW, BY E.C.
EF-1	115/1/60	-	-	224	1.9	FACTORY INSTALLED DISCONNECT
EF-2	115/1/60	-	-	224	1.9	FACTORY INSTALLED DISCONNECT

NOTE: EF-1 AND EF-2 CONTROL BY OCCUPANCY SENSOR IN ROOM - SENSOR BY E.C.

4 DISCONNECT SCHEDULE
E1.2 SCALE: NONE



EQUAL LIGHT MANUFACTURER NOTE
 THE LIGHTING FIXTURES INDICATED WITHIN THIS FIXTURE SCHEDULE ONLY INDICATE THE MINIMAL QUALITY STANDARDS FOR DESIGN BASIS THAT ARE REQUIRED FOR THE FIXTURES THAT ARE TO BE INSTALLED WITHIN THIS FACILITY. ALL MANUFACTURERS THAT PROVIDE A FIXTURE EQUAL TO THE DESIGN BASIS FIXTURES ARE QUALIFIED TO SUBMIT THE PRODUCT FOR EVALUATION. A POINT X POINT CALCULATION IS REQUIRED TO PROVE THE EQUAL PERFORMANCE.

LIGHTING FIXTURE SCHEDULE

SYM	MFR	CATALOG #	LAMP		BALLAST		VOLT	VOLTAGE	MT. HIGHT	DESCRIPTION
			NO.	TYPE	NO.	TYPE				
A	KENALL OR EQUAL	TMLHA12-48-F-XX-PP-4SL35K-DCC-DV	-	LED 5,104 LUMENS 3500K, 82CRI	-	-	49	UNIVERSAL 120/277	SURFACE MOUNTED TO GYPSUM BOARD CEILING	VANDAL RESISTANT LED LIGHT FIXTURE, 12" X 48", MARINE GRADE ALUMINUM HOUSING, FINISH COLOR SELECTION BY ARCHITECT, HIGH IMPACT PEARLESCENT ACRYLIC LENS, 0-10V DIMMING DRIVER, WET LOCATION LISTED FOR COVERED CEILING
B	EATON - METALUX ACUITY CREE	4V72-LD5-4-DR-UNV-L835-CD1-WL	-	LED 4000 LUMENS 3500K, 80CRI	-	-	30	UNIVERSAL 120/277	SURFACE MOUNTED TO GYPSUM BOARD CEILING	LED VAPORTITE 4 FOOT FIXTURE WITH FIBERGLASS HOUSING, HIGH IMPACT ACRYLIC DIFFUSER, DIMMING DRIVER, UL LISTED WET LOCATION
C	EATON - LUMARK OR EQUAL	XTOR2B W XX	-	LED 2103 LUMENS 4000K, 70 CRI	-	-	18	UNIVERSAL 120/277	MTD TO EXTERIOR WALL - HEIGHT BY ARCHITECT	LED WALL PACK, 5-3/4"W X 6-3/4"H X 3-5/8"D, ALUMINUM DIECAST HOUSING WITH FULL CUTOFF, COLOR SELECTION BY ARCHITECT, INTEGRAL DRIVER, UL LISTED WET LOCATION, ADA COMPLIANT
D	SURE-LITES DUAL-LITE EXITRONIX	SELW 25 XX EQUAL EQUAL	2	2.0 W LED	-	-	2.0	120/277 20/VA VOLTAGE	MOUNT TO WALL 7'-6" AFF	LED EMERGENCY BATTERY LIGHT, THERMOPLASTIC HOUSING, FINISH COLOR SELECTION BY ARCHITECT, MAINTENANCE FREE NICKEL, CADMIUM BATTERY, UL LISTED WET LOCATION

5 LIGHT FIXTURE SCHEDULE
E1.2 SCALE: NONE

ELECTRICAL LEGEND & EQUIPMENT SCHEDULE

SYM	MNFR	CATALOG #	DESCRIPTION
SW		DW-100	WALL SWITCH SENSOR, DUAL TECHNOLOGY (PIR AND ULTRASONIC), COLOR OF SWITCH AND COVER PLATE TO BE DETERMINED, MOUNT 48" AFF TO TOP OF PLATE, PROGRAM AS OCCUPANCY
GF	LEVITON	GFR2	GFI DUPLEX RECEPTACLE, TAMPER RESISTANT, 20 AMP, 125V, 3 WIRE, COLOR OF RECEPTACLE AND COVER PLATE TO BE DETERMINED, MOUNT 18" AFF UNLESS NOTED OTHERWISE
GF	LEVITON	GFR2	GFI DUPLEX RECEPTACLE SAME AS ABOVE EXCEPT MOUNTED 42" AFF OR 6" ABOVE BACK SPLASH
EWC			20 AMP GROUND FAULT RECEPTACLE FOR ELECTRICAL WATER COOLER - COORDINATE RECEPTACLE LOCATION WITH PLUMBER, RECEPTACLE MUST BE ACCESSIBLE
AFF			ABOVE FINISHED FLOOR
US			UNSWITCHED LIGHT FIXTURE
WP	LEVITON	5977-CL	CLEAR WEATHER PROOF VERTICAL RAINLIGHT WHILE IN USE RECEPTACLE COVER
OS			CEILING MOUNTED OCCUPANCY SENSOR, 2000 SQUARE FEET COVERAGE
PP			1 POWER PACK
Z o X			SEE FIXTURE SCHEDULE STRIP LIGHT FIXTURE
Z X			SEE FIXTURE SCHEDULE WALL PACK
EB			SEE FIXTURE SCHEDULE EMERGENCY BATTERY LIGHT
PE			PHOTOELECTRIC CELL
RC			RACEWAY CONCEALED ABOVE CEILING OR IN WALL
HP			HOMERUN TO PANEL BOARD
LC			LOW VOLTAGE LIGHTING CONTROL CABLING
PL			PANELBOARD - SEE SCHEDULE FOR TYPE & A.I.C RATINGS
EF			EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR
PP			PUMP PROVIDED BY PLUMBING CONTRACTOR
JB			JUNCTION BOX
FS	SQUARE D		HEAVY DUTY FUSED SAFETY SWITCH, SIZE FUSES AS REQUIRED, USE NEMA 1 ENCLOSURES FOR INDOOR APPLICATIONS AND NEMA 3R FOR OUTDOOR APPLICATIONS
MB	HUBBELL	HBL7832D	HEAVY DUTY AC MANUAL MOTOR CONTROLLER (SUITABLE AS MOTOR DISCONNECT), 30A, DOUBLE POLE, SINGLE THROW, BLACK NYLON HANDLE, SIDE AND BACK WIRED
TS	LEVITON	1221	20 AMP, 125V, SINGLE POLE TOGGLE DISCONNECT SWITCH

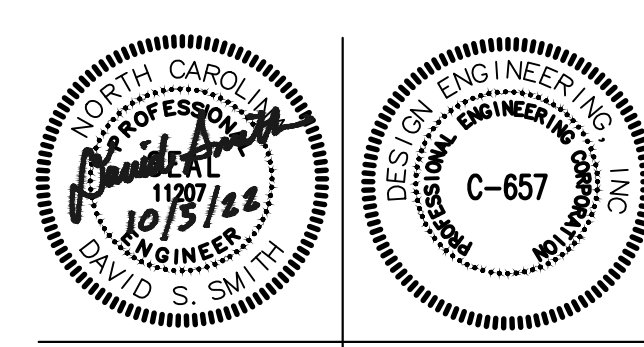
+ COLOR OF SWITCHES, RECEPTACLES AND COVER PLATES TO BE SELECTED BY THE ARCHITECT. TYPE OF COVER PLATE (STAINLESS STEEL, PLASTIC, NYLON) TO BE SELECTED BY THE ARCHITECT.

6 ELECTRICAL LEGEND
E1.2 SCALE: NONE

POWER AND LIGHTING PLANS

Wrenn Miller
 Park Toilet

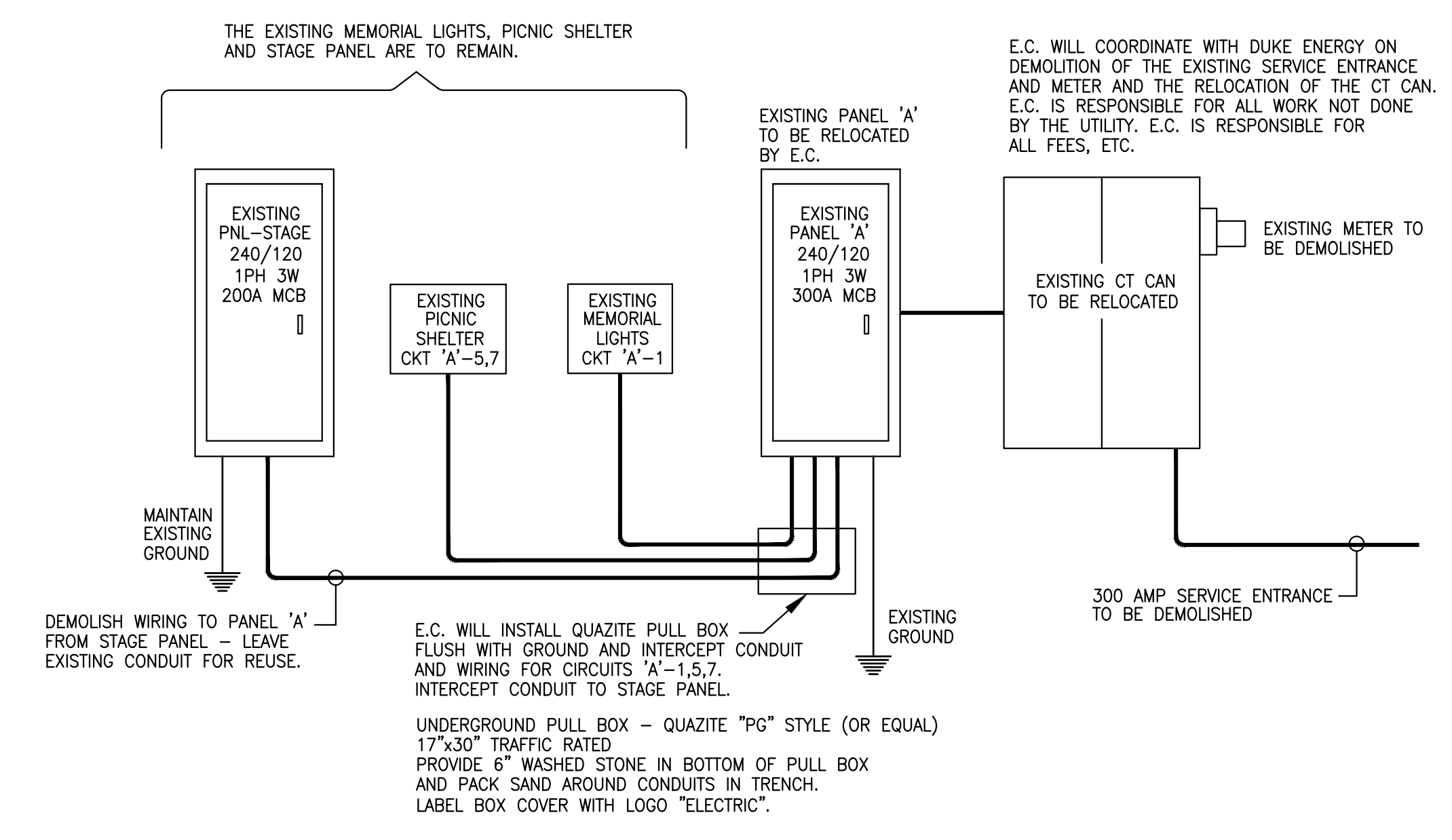
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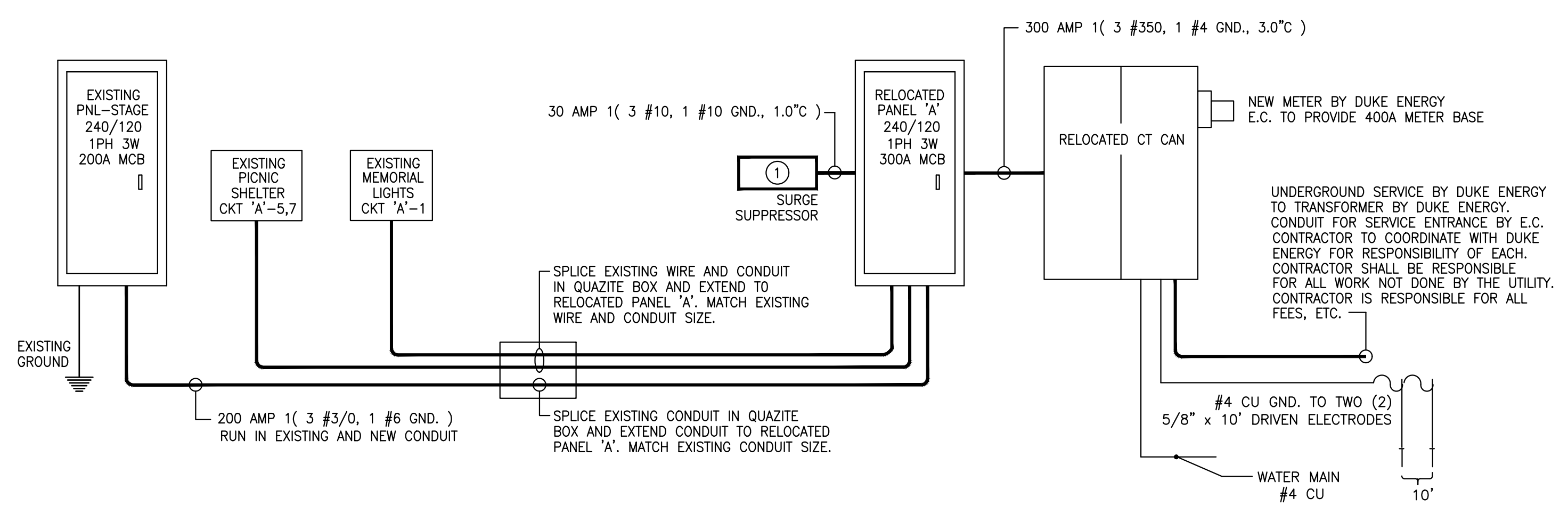
NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

① SURGE SUPPRESSOR - PSP PRODUCTS, LIEBERT, G.E. DIGITAL ENERGY OR OTHER APPROVED EQUAL MANUFACTURER. LOCATION OF SURGE SUPPRESSOR NOT SHOWN ON LAYOUT DRAWING, MOUNT AS RECOMMENDED BY MANUFACTURER.

GENERAL CONSTRUCTION NOTES:
 1). SERVICE EQUIPMENT IN OTHER THAN DWELLING UNITS MUST BE LEGIBLY MARKED IN THE FIELD WITH THE AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) MUST INCLUDE THE CALCULATION DATE AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT.



1 DEMOLITION ELECTRICAL RISER
 SCALE: NONE



2 ELECTRICAL RISER
 SCALE: NONE

PANEL "A" (EXISTING)

Mfg & Type "GE A-Series II"
 Service 240/120 Y 1PH 3W 60 Hz
 Cabinet Surface
 AIC Rating EXISTING
 Mains 300 Amp MCB
 Breakers Bolt-on type
 Copper Bus and Neutral and Grnd Kit

DESCRIPTION	WIRE SIZE	CONDUIT SIZE	AMPS-A	AMPS-B	VOLT-AMPS	TRIP	POLES	CT #	CT #	POLES	TRIP	VOLT-AMPS	AMPS-A	AMPS-B	CONDUIT SIZE	WIRE SIZE	DESCRIPTION
LTS-MEMORIAL	K E E 10.4				1250	20	1P	1	2	1P	20	0.0	0.0	0.0	0.0	0.0	SPARE
SPARE	0 0		0.0						4	1P	20	0.0	0.0	0.0	0.0	0.0	SPARE
PICNIC SHELTER	K E E 8.3				1000	20	2P	5	6	1P	20	802	6.7		3/4" 12	L LTS-INTERIOR	
	K E E		8.3		1000	20	2P	7	8	1P	20	206	1.7		3/4" 12	L LTS-EXTERIOR & PASSAGE VAY	
WH-1 ELECTRM	H 12 3/4" 12.5				1500	20	1P	9	10	1P	20	540	4.5		3/4" 12	R RECEPT-VOMENS	
WH-2 JANSTOR	H 12 3/4" 12.5				1500	20	1P	11	12	1P	20	720	6.0		3/4" 12	R RECEPT-PASSAGE, EXTERIOR	
REF-BACKFLOW/PREVENTER	O 10 1" 12.5				1500	20	1P	13	14	1P	20	680	5.7		3/4" 12	R RECEPT-ENG, ELECTRM	
HP-1	H 12 3/4" 7.0				840	20	2P	15	16	1P	20	250	2.1		3/4" 12	W HWRRP-1	
HP-2	H 12 3/4" 7.0				840	20	2P	17	18	1P	20	720	6.0		3/4" 12	R RECEPT-MENS JANSTOR	
	H 12 3/4" 7.0				840	20	2P	19	20	1P	20	1900	12.5		3/4" 12	O HEAT TRACE	
EVH-1	H 12 3/4" 7.0				840	20	2P	21	22	1P	20	1900	12.5		3/4" 12	O HEAT TRACE	
	W 10 3/4" 18.8				2250	30	2P	23	24	1P	0	0.0	0.0	0.0	0.0	0.0	SPACE
	W 10 3/4" 18.8				2250	30	2P	25	26	1P	0	0.0	0.0	0.0	0.0	0.0	SPACE
SURGE SUPPRESSOR	0 0		0.0			30	2P	27	28	1P	0	0.0	0.0	0.0	0.0	0.0	SPACE
SEE DWG 2/E1.3 FOR WIRE SIZE	0 0		0.0			30	2P	29	30	1P	0	0.0	0.0	0.0	0.0	0.0	SPACE
SPACE	0 0		0.0			0	1P	31	32	1P	0	0.0	0.0	0.0	0.0	0.0	SPACE
SPACE	0 0		0.0			0	1P	33	34	1P	0	0.0	0.0	0.0	0.0	0.0	SPACE
SPACE	0 0		0.0			0	1P	35	36	1P	0	0.0	0.0	0.0	0.0	0.0	SPACE
SPACE	0 0		0.0			0	1P	37	38	1P	0	0.0	0.0	0.0	0.0	0.0	SPACE
SPACE	0 0		0.0			0	1P	38	40	1P	0	0.0	0.0	0.0	0.0	0.0	SPACE
SPACE	0 0		0.0			0	1P	41	42	1P	0	0.0	0.0	0.0	0.0	0.0	SPACE
PANEL-STAGE	K		100.0		12000	200	2P	43									
SEE DWG 2/E1.3 FOR WIRE SIZE	K		100.0		12000	200	2P	45									

TOTAL
 A Phase Amps Total 211.9 25422
 B Phase Amps Total 175.9 21106
 Total Volt. Amps 46526

PROVIDE A SEPARATE NEUTRAL FOR ALL MULTI-WIRE TO NEUTRAL LOADS. PROVIDE TRACER ON THE WHITE NEUTRAL THE SAME COLOR AS THE PHASE CONDUCTOR.
 E INDICATES AN EXISTING WIRE AND CONDUIT SIZE FOR AN EXISTING LOAD.

3 PANEL SCHEDULE
 SCALE: NONE

BREAKERS ON PANEL 'A' CIRCUITS 1 THROUGH 13 AND 43,45 ARE EXISTING. E.C. SHALL PROVIDE TWO NEW 2-P 20A BREAKERS FOR CIRCUITS 'A'-15,17 AND 19,21. E.C. SHALL PROVIDE TWO NEW 2-POLE 30A BREAKERS FOR CIRCUITS 'A'-23,25 AND 27,29. E.C. SHALL PROVIDE FIVE NEW 1-POLE 20A BREAKERS FOR CIRCUITS 'A'-14,16,18,20,22. NEW BREAKERS AIC RATING TO MATCH EXISTING PANEL AIC RATING.

LOAD SUMMARY

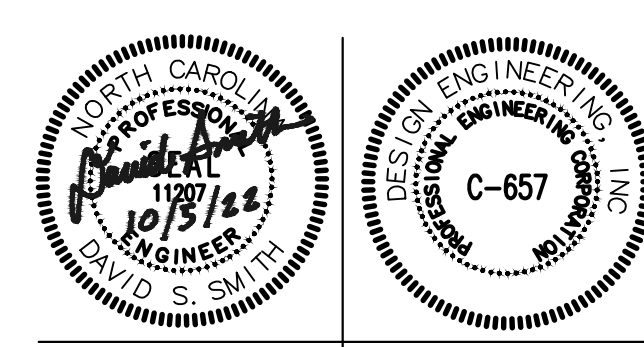
LOAD	VOLT-AMPS	DEMAND FACTOR	VOLT-AMPS
LIGHTS	560	1.25	700
RECEPTACLES	2,660		2,660
HVAC	6,360	1	6,360
EXHAUST FANS	448	1	448
WATER HEATERS/PUMPS	4,750	1	4,750
EXISTING LOADS (ESTIMATED)	27,250	1	27,250
MISCELLANEOUS OTHER	4,500	1	4,500
TOTAL			46,668 /240 = 194 AMPS
FUTURE CAPACITY			106 AMPS
SERVICE - 240/120 VOLTS 1 PHASE 3W			300 AMPS

4 LOAD SUMMARY
 SCALE: NONE

POWER AND LIGHTING PLANS

Wrenn Miller Park Toilet

101 Guilford Road
 Jamestown, NC 27282



MINI-SPLIT HEAT PUMP SCHEDULE																		
EQUIPMENT NUMBER	MODEL NUMBER	REFRIG.	NO. OF COMPRESSORS	TOTAL CAP. MBH	SENSIBLE CAP. MBH	UNIT SEER	NO. OF REFRIG. CIRCUITS	DESIGN AMBIENT		UNIT CAP. TONS	COND. QTY.	FANS QTY.	MOPD	MCA	COND. UNIT VOLTAGE	REFRIG. PIPE CONN.(O.D.)		UNIT WEIGHT LB.
								TEMP. DEG. F	WET BULB DEG. F							LIQUID LINE	SUCTION LINE	
HP-1	RXN12KEVJU	R-410a	1	12.0	12.0	18.0	1	41.5	95.0	1.0	1	1	15	7.0	208/1/60	3/4"	3/4"	68
HP-2	RXN12KEVJU	R-410a	1	12.0	12.0	18.0	1	41.5	95.0	1.0	1	1	15	7.0	208/1/60	3/4"	3/4"	68

- NOTES:
- INFORMATION PROVIDED IS BASED ON DAKIN, TRANE AND CARRIER ARE APPROVED EQUALS.
 - PROVIDE 5-YEAR EXTENDED WARRANTY ON COMPRESSORS FOR PARTS.
 - UNITS SHALL BE SHIPPED WITH A HOLDING CHARGE OF R-410a.
 - PROVIDE 24 VOLT CONTROL TRANSFORMER.
 - PROVIDE SCREENS FOR CONDENSING UNIT FANS AND GUARDS FOR COILS.
 - INCLUDE FILTER-DRIERS, LIQUID LINE SOLENOID VALVES, SIGHT GLASS/MOISTURE INDICATOR, AND THERMAL EXPANSION VALVES.
 - PROVIDE HEAD PRESSURE CONTROL WITH ADJUSTABLE PRESSURE SWITCH FOR FAN CYCLING.
 - FUSED DISCONNECTS BY ELECTRICAL CONTRACTOR.
 - ALL NEW HP'S SHALL HAVE FACTORY INSTALLED OUTDOOR T-STATS.

HVAC DESIGN DATA									
PROJECT	LOCATION	SUMMER				WINTER			
		DRY BULB	WET BULB	DRY BULB	% HUMIDITY	DRY BULB	WET BULB	DRY BULB	% HUMIDITY
WRENN MILLER PARK TOILET	JAMESTOWN, NC	95°F	78°F	80°F	50 +/-15%	14°F	10°F	70°F	NA

FAN SCHEDULE														
EQUIPMENT NUMBER	MFR.	LOCATION	MODEL	SERVICE	CFM	E.S.P. IN. W.G.	FAN RPM	MTR RPM	MTR POWER	ELECTRICAL VOLTS/PHASE/CYCLES	FLA	WEIGHT	SONES	dBa
EF-1	GREENHECK	CEILING	SP-A510	EXHAUST	250	0.5	1,070	1,070	224 W	115/1/60	1.9	31 LB.	3.8	44
EF-2	GREENHECK	CEILING	SP-A510	EXHAUST	250	0.5	1,070	1,070	224 W	115/1/60	1.9	31 LB.	3.8	44

- NOTES:
- EXHAUST FAN INFORMATION IS BASED UPON GREENHECK, PENN AND COOK ARE APPROVED EQUALS.
 - PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT, RHEOSTAT SPEED CONTROLS, AND BACKDRAFT DAMPERS.
 - EF-1 AND EF-2 SHALL BE CONTROLLED BY A WALL SWITCH IN RESPECTIVE ROOMS.

WALL HEATER SCHEDULE					
TAG	MFR	MODEL	POWER	WATTS	WEIGHT(lbs)
WH-1	TRANE	LHA4151E7AD	120/1/60	1500	5,119
WH-2	TRANE	LHA4151E7AD	120/1/60	1500	5,119

- NOTES:
- WALL HEATER SHALL BE SEMI-RECESSED MOUNTED AS MANUFACTURED BY TRANE, MARKEL, OR RAYWALL.
 - PROVIDE EACH WALL HEATER WITH FACTORY FAN DELAY SWITCH OPTION AND THERMOSTAT WHICH BREAKS ALL UNGROUNDING CONDUCTORS IN OFF POSITION.
 - PROVIDE 3M FIREMASTER WRAP AND CALK WHEN RECESSED INTO RATED WALL TO MAINTAIN RATING.

REFRIGERANT PIPING SIZES						
TAG	EQUIPMENT SERVED	NOM. TONS	EQUIVALENT LENGTH (ft)	LIQUID LINE	SUCTION LINE	HOT GAS
HP-1	AHU-1	1.0	10'	3/4"	3/4"	---
HP-2	AHU-2	1.0	10'	3/4"	3/4"	---

- NOTES:
- ALL REFRIGERANT PIPING SHALL BE NITROGENIZED ACR COPPER TUBING.
 - TUBING SIZES SCHEDULED ARE O.D. TYPE L COPPER.
 - PROVIDE ALL REFRIGERANT SPECIALTIES FOR A COMPLETE INSTALLATION EQUAL TO SPORLAN PRODUCTS.
 - REFRIGERANT LINE SIZES ARE BASED UPON DESIGN MECHANICAL CONTRACTOR SHALL HAVE MANUFACTURER SIZE ALL LINE SETS BASED UPON ACTUAL INSTALLATION LENGTHS AND PRESSURE DROP.

MINI-SPLIT AIR HANDLING UNIT SCHEDULE (HEAT PUMP)																					
EQUIPMENT NUMBER	MODEL NUMBER	CFM	MOTOR POWER	REFRIG.	MIN. TOTAL MBH	MIN. SENSIBLE MBH	ENTERING AIR				HEAT PUMP HEAT @ 14°F				ELECTRICAL POWER			UNIT WEIGHT LB.			
							DRY BULB DEG. F	WET BULB DEG. F	DRY BULB DEG. F	WET BULB DEG. F	SAT. TEMP. DEG. F	SUCT. TEMP. DEG. F	MAX. COIL FACE VELOCITY	MIN. COIL FTV/ROWS	COIL TYPE	ENTERING AIR DRY BULB DEG. F	LEAVING AIR DRY BULB DEG. F		MAX. COIL FACE VELOCITY	MIN. SENSIBLE MBH	TEMPERATURE RISE DEG. F
AHU-1	FTXN12KEVJU	357	N/A	R-410a	12.0	8.2	80.0	67.0	58.6	57.3	41.5	500 FPM	3/15	DX	68.0	100.0	500	15.8	42.5	POWER SUPPLIED BY RESPECTIVE HP	16.0
AHU-2	FTXN12KEVJU	357	N/A	R-410a	12.0	8.2	80.0	67.0	58.6	57.3	41.5	500 FPM	3/15	DX	68.0	100.0	500	15.8	42.5	POWER SUPPLIED BY RESPECTIVE HP	16.0

- NOTES:
- AIR HANDLING UNIT IS BASED ON DAKIN, TRANE AND CARRIER ARE APPROVED EQUALS.
 - FAN MOTORS SHALL BE ODP AND ENERGY EFFICIENT.
 - PROVIDE SINGLE POINT POWER CONNECTION WITH FACTORY DISCONNECT FOR EACH AIR HANDLING UNIT.
 - PROVIDE FACTORY INSTALLED ELECTRIC HEAT PER SCHEDULED PERFORMANCE.
 - ALL ELECTRIC HEAT SHALL BE INTERNALLY PROTECTED WITH FUSES, INTERLOCKS (WITH SUPPLY FAN) AND AIR FLOW SWITCHES.
 - ALL COILS SHALL BE ARI TESTED, RATED, AND CERTIFIED.
 - PROVIDE 24V ELECTRONIC PROGRAMMABLE AUTOMATIC CHANGEOVER THERMOSTATS.
 - PROVIDE FACTORY NITROGENIZED "ACR" COPPER REFRIGERANT PIPING KITS WITH ALL NECESSARY TRIM FOR A COMPLETE INSTALLATION.
 - PROVIDE TWO SETS OF DISPOSABLE FILTERS FOR EACH AIR HANDLING UNIT.

MINIMUM OUTDOOR AIR REQUIREMENTS (NCSBC/MECHANICAL 2018)											
EQUIPMENT ID	ROOM NAME AND ROOM NUMBER	OCCUPANCY CLASSIFICATION	AREA SQ.FT.	PEOPLE CFM / PERSON	AREA CFM / 1000 SQ.FT.	DENSITY /1000	MAXIMUM OCCUPANCY	TOTAL REQ. O.A. CFM	MINIMUM TOTAL O.A. CFM	TOTAL REQ. E.A. CFM	
	ELEC.	ELECTRICAL ROOM	44	0	0	0	0	0	0	0.0	
	JAN./STOR.	STORAGE ROOMS	50	0	0.12	0	0	6	0	* 0.0	
AHU-1	WOMEN'S	TOILET ROOMS	200	5	0.06	60	12	72	0	* 210.0	
AHU-2	MENS	TOILET ROOMS	200	5	0.06	60	12	72	0	* 210.0	
			Total Sq. Ft.	494			GRAND TOTALS	24	150	0	420

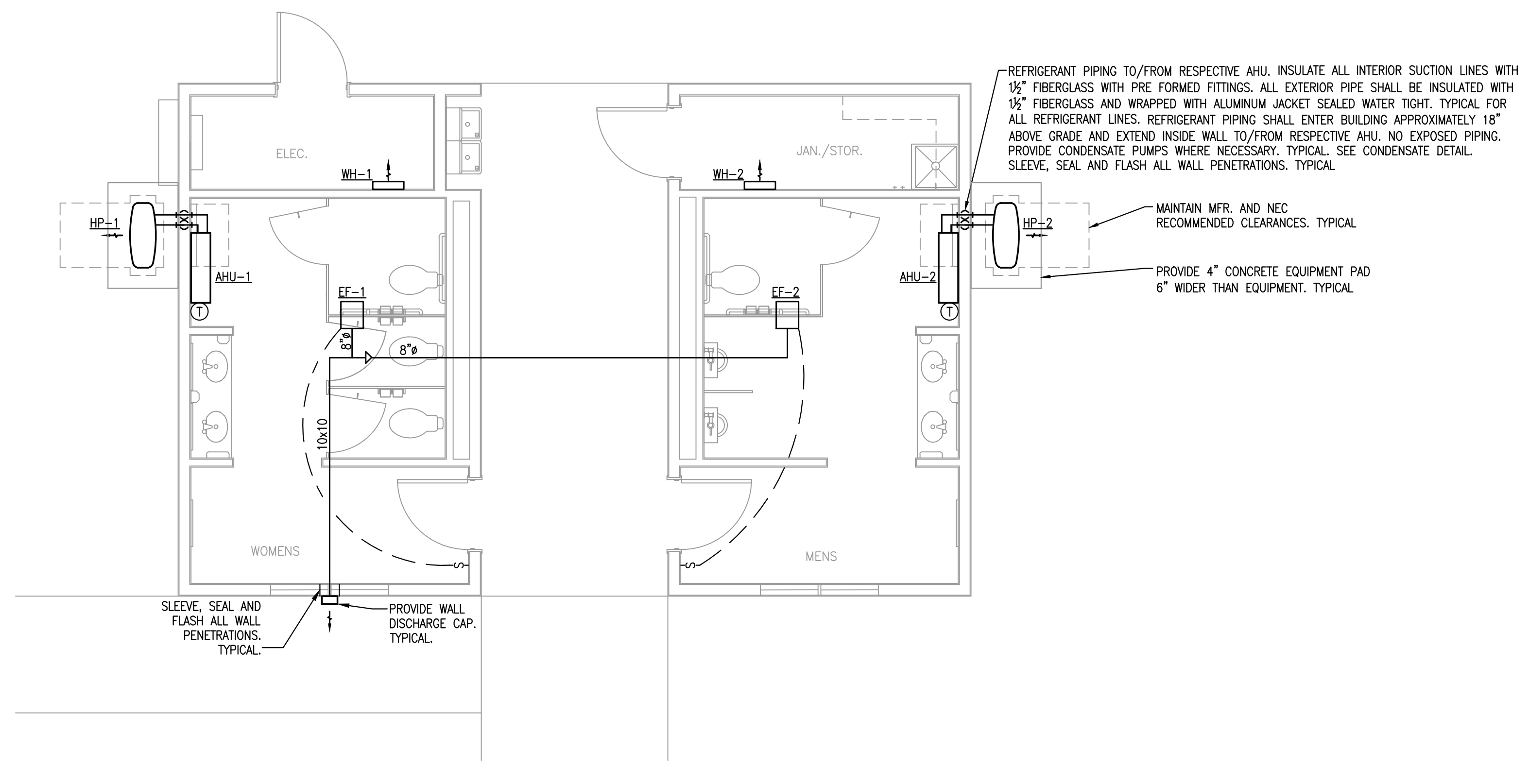
* NATURAL VENTILATION AND MECHANICAL VENT MEETS NCSBC-MC 402.2 OPEN AREA OF EXTERIOR DOORS OR WINDOWS MEETS OR EXCEEDS 4% OF FLOOR AREA.
 ** NATURAL VENTILATION AND MECHANICAL VENT MEETS NCSBC-MC 402.3 VENTILATION THROUGH ADJOINING ROOMS SHALL BE UNOBSTRUCTED AND SHALL HAVE AN AREA NOT LESS THAN 8% OF THE FLOOR AREA OF THE INTERIOR ROOM OR SPACE.

LEGEND

- ┌─ PIPE ELBOW
- └─ PIPE ELBOW DOWN
- ┌─ PIPE TEE
- └─ FAN CONTROL SWITCH BY E.C.
- Ⓢ PROGRAMMABLE ELECTRONIC THERMOSTAT WITH LOCKING COVER
- UC UNDERCUT DOOR 1"

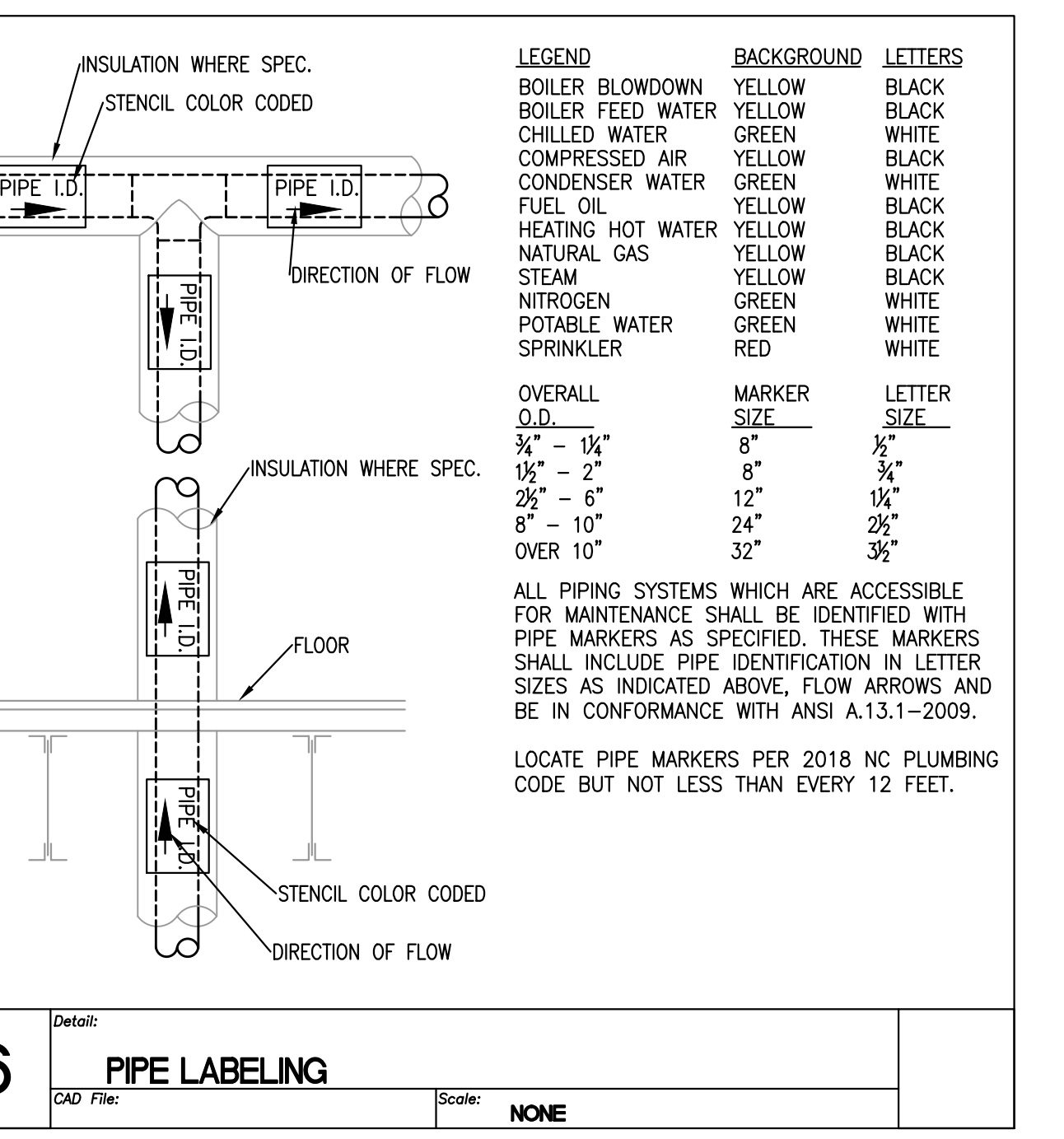
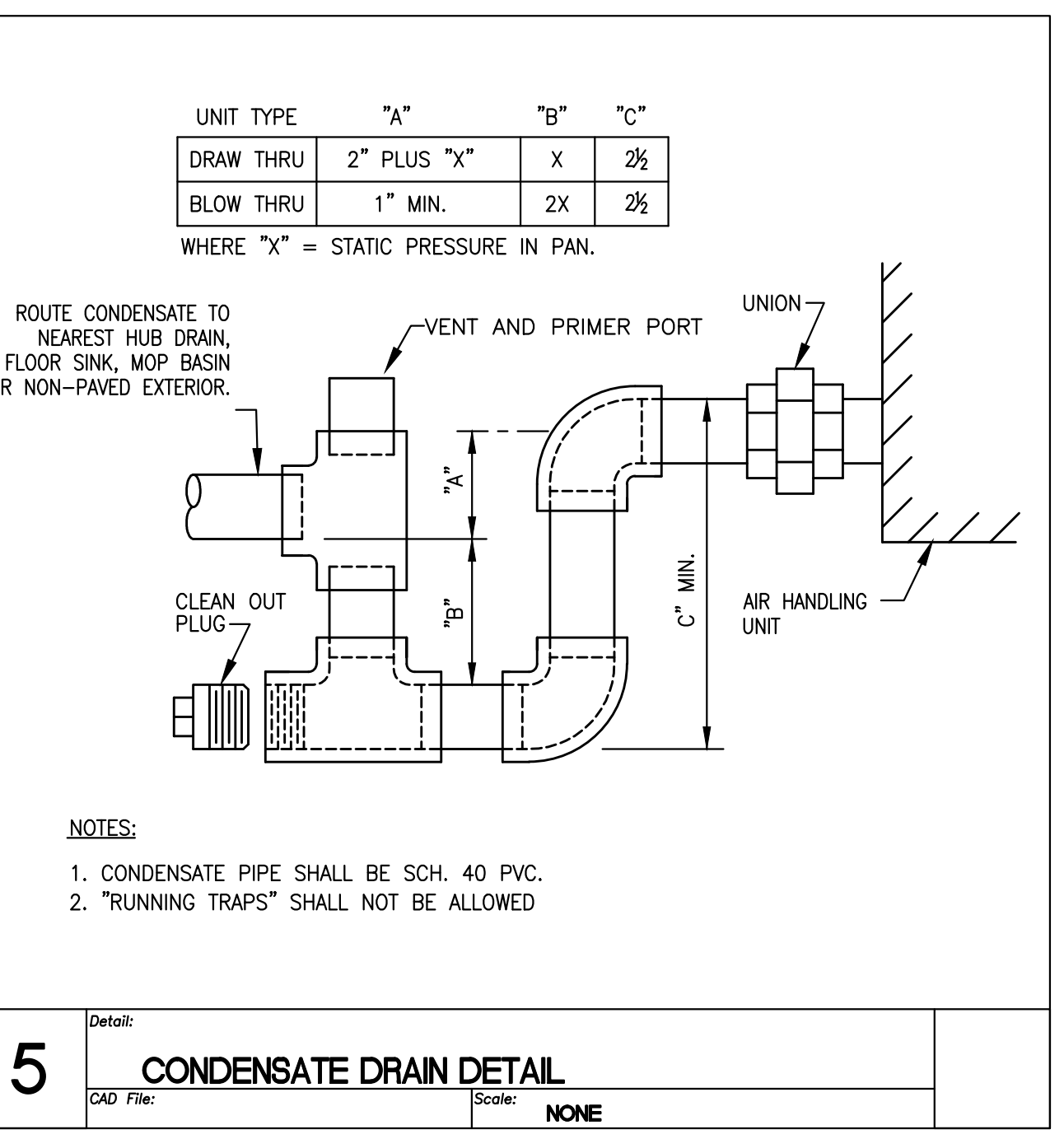
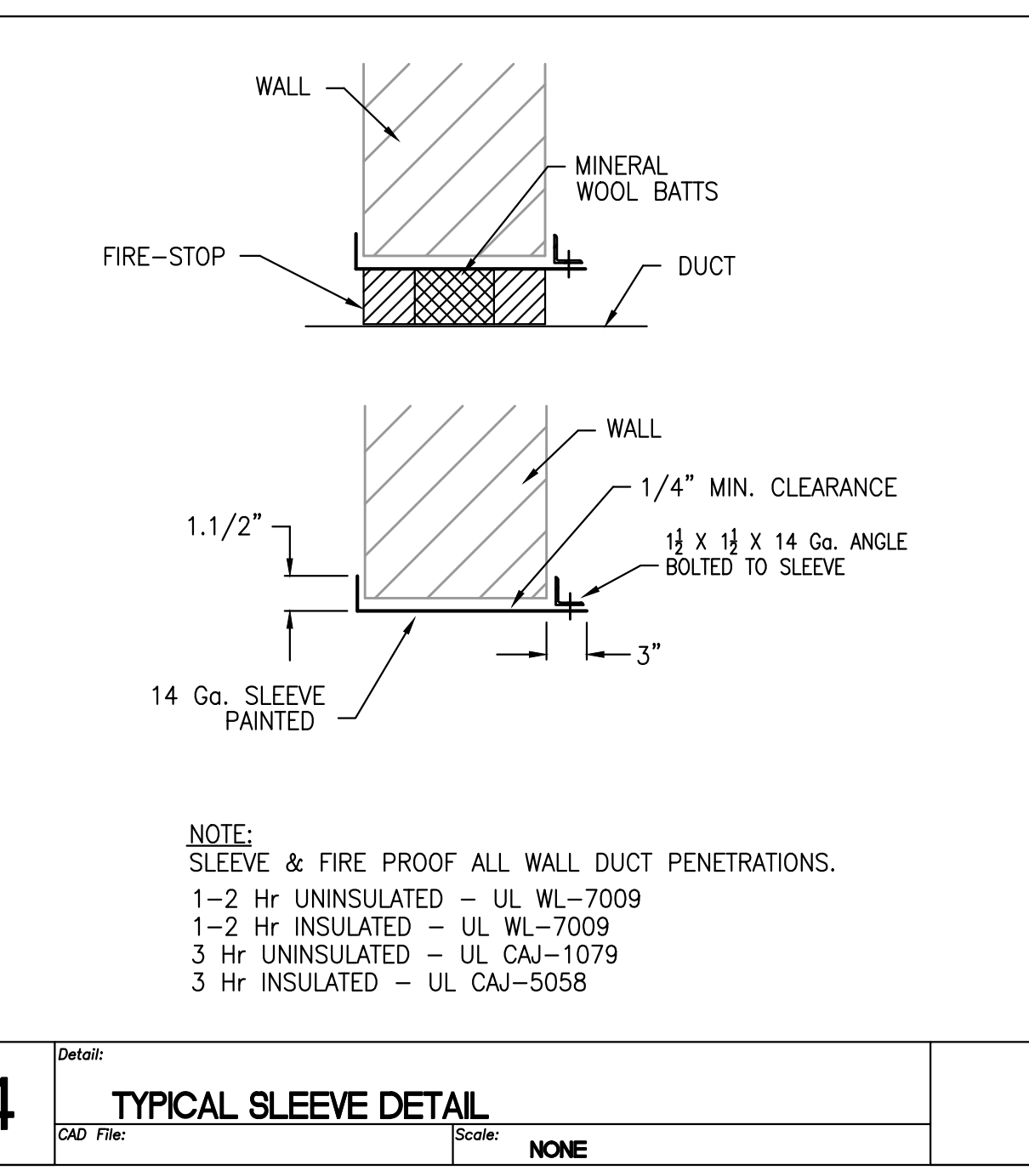
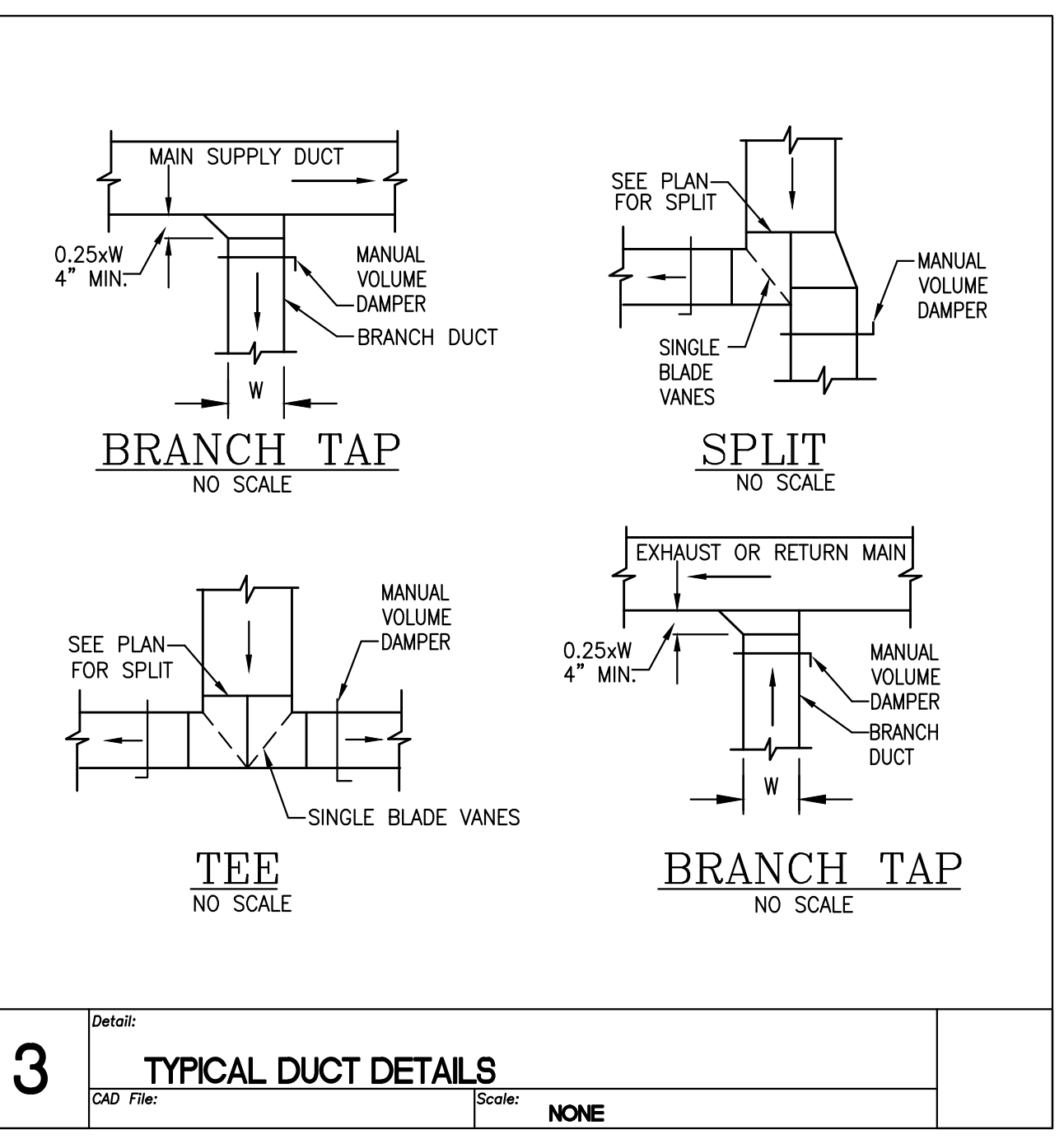
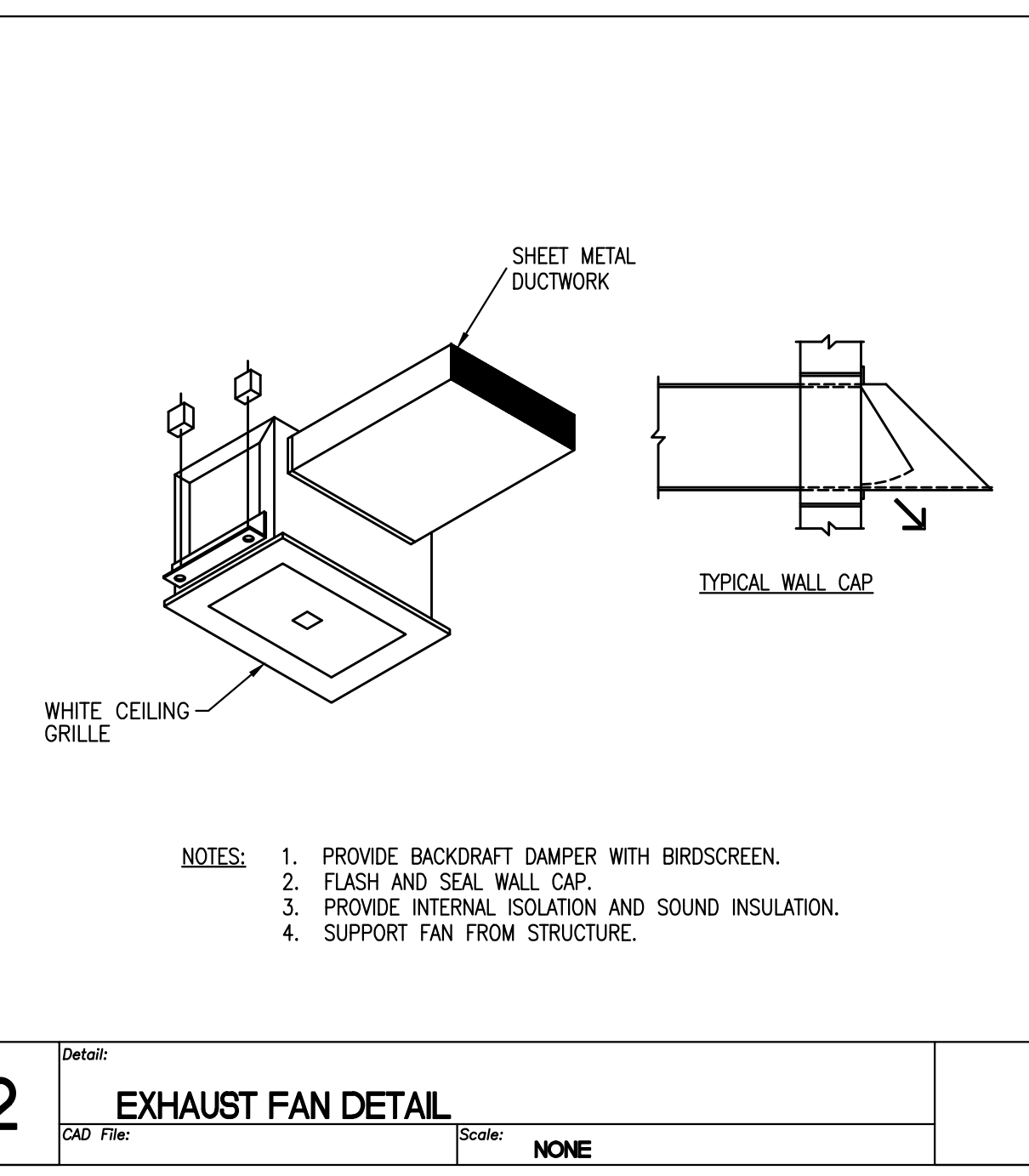
ABBREVIATIONS

- AD ACCESS DOOR
- AF AIRFOIL FAN WHEEL
- AFF ABOVE FINISHED FLOOR
- AHU AIR HANDLING UNIT
- CFM CUBIC FEET PER MINUTE
- CH WATER COOLED CHILLER
- CHWS CHILLED WATER SUPPLY
- CHWR CHILLED WATER RETURN
- CT COOLING TOWER
- CWS CONDENSER WATER SUPPLY
- CWR CONDENSER WATER RETURN
- Db DRY BULB TEMPERATURE, DEGREES FAHRENHEIT
- Dp DEW POINT TEMPERATURE, DEGREES FAHRENHEIT
- DIA DIAMETER
- EF EXHAUST FAN
- EC ELECTRICAL CONTRACTOR
- EFF.% MOTOR EFFICIENCY-PERCENT
- EWL ENTERING WATER TEMPERATURE
- FLA FULL LOAD AMPS
- FM WATER FLOW METER DEVICE
- FPI FINS PER INCH
- FPM FEET PER MINUTE
- FT.W.G. FEET OF WATER GAUGE
- GPM GALLONS PER MINUTE
- HHWS HEATING HOT WATER SUPPLY
- HHWR HEATING HOT WATER RETURN
- HP HORSEPOWER
- HRS HOT ROLL STEEL
- I.N.W.G. INCHES OF WATER GAUGE
- LWT LEAVING WATER TEMPERATURE
- MAX. MAXIMUM
- MC MECHANICAL CONTRACTOR
- MBH BTU/HR x 1000
- MFR MANUFACTURER
- MIN. MINIMUM
- NOM. NOMINAL
- O.A. OUTSIDE AIR
- O.C. ON CENTER
- O.D. OUTSIDE DIAMETER
- PAC PACKAGED AIR CONDITIONING UNIT
- PC PLUMBING CONTRACTOR
- PD PRESSURE DROP
- QTY. QUANTITY
- R.A. RETURN AIR
- RAF RETURN AIR FAN
- RH REHEAT COIL
- RPM REVOLUTIONS PER MINUTE
- S.A. SUPPLY AIR
- SF SUPPLY FAN
- SP STATIC PRESSURE (INCHES OF WATER)
- UH UNIT HEATER
- VD VOLUME DAMPER (MANUAL OPPOSED BLADE)
- Wb WET BULB TEMPERATURE, DEGREES FAHRENHEIT



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

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT:		
Method of Compliance:	Prescriptive	Performance
Thermal Zone:	ZONE 4A	
Roof/Ceiling:	0.42	0.024
Ext. Walls:	0.20	0.050
Doors:	0.2	0.500
Windows:	0.2	0.500
Walls Below Grade:	N/A	N/A
Floors Over Unconditioned spaces:	N/A	N/A
Floors On Slab:	15	0.68
Exterior Design Conditions		
winter dry bulb	14°F	
summer dry bulb	92°F	
Interior Design Conditions		
winter dry bulb	70°F	
summer dry bulb	82°F	
relative humidity	50% - 65%	
Building heating load	23.4 MBH	
Building cooling load	22.4 MBH	
Mechanical Spacing/Conditioning Systems		
Unitary	SEE SCHEDULES ON THIS SHEET	
description of unit		
heating efficiency		
cooling efficiency		
heat output of unit		
cooling output of unit		
Boiler:	Total Boiler Output, if oversized, state reason: N/A	
Chiller:	Total Chiller Capacity, if oversized, state reason: N/A	
LIST EQUIPMENT EFFICIENCIES: ** See Motor Efficiencies Table This Sheet		
EQUIPMENT SCHEDULES WITH MOTORS (Mechanical systems): ** See HVAC Equipment Schedule This Sheet		
Motor horsepower:	Motor type:	
Number of phases:	# of poles:	
Minimum efficiency:		



Wrenn Miller Park Toilet

101 Guilford Road
Jamestown, NC 27282

