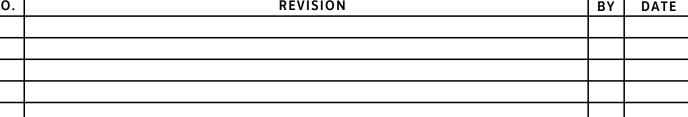


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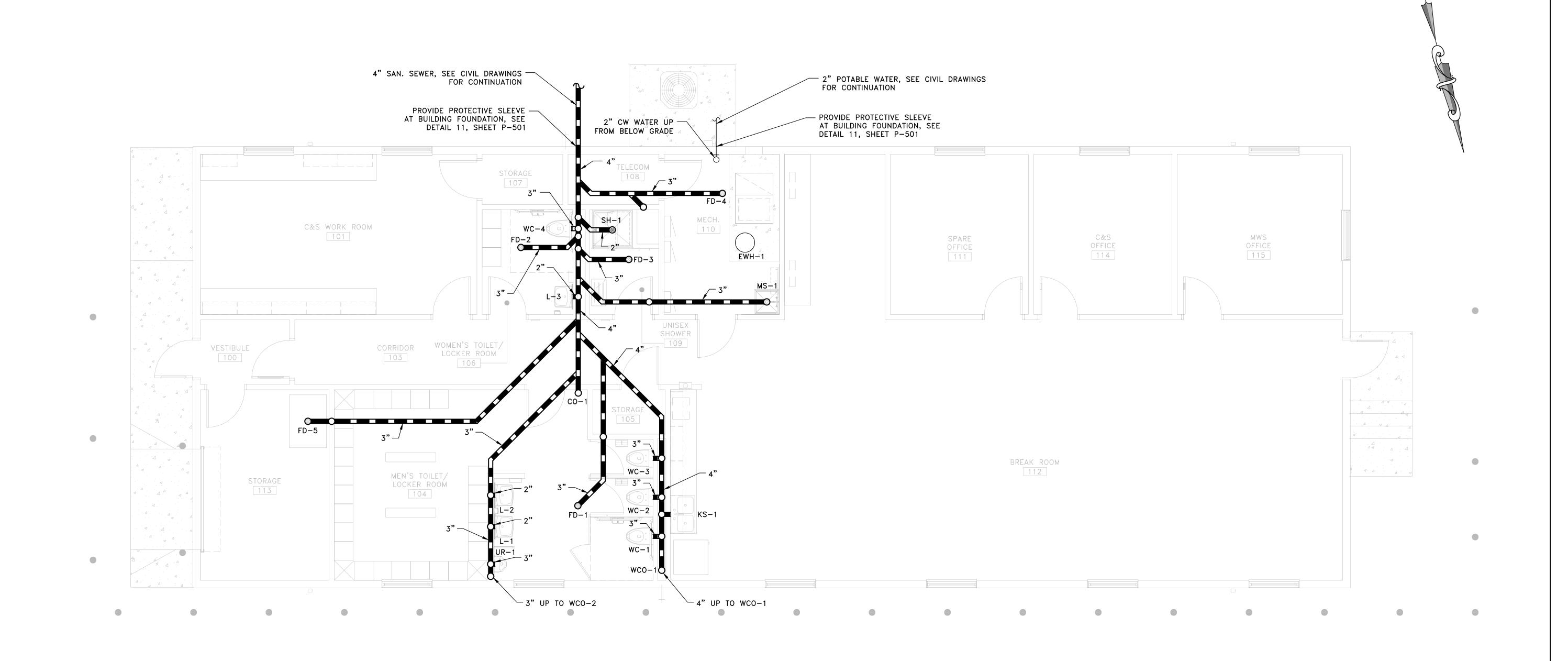




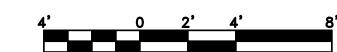
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DATE: 7-18-24
PROJECT NO: 24.080

NORFOLK SOUTHERN CORPORATION
CAMBRIA YARD
CHRISTIANSBURG, VIRGINIA

PLUMBING SYMBOLS, ABBREVIATIONS AND NOTES P-001



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



GENERAL NOTES:

- COORDINATE ALL ELECTRICAL & MECHANICAL FIXTURES WITH ELECTRICAL & MECHANICAL SCHEDULES AND DRAWINGS FROM APPROPRIATE SHEETS.
- 2. REFER TO CODE COMPLIANCE PLAN FOR ADDITIONAL INFORMATION. SEE DWG A-001.
- 3. REFER TO THE ROOM FINISH SCHEDULE FOR CEILING HEIGHTS, UNLESS NOTED OTHERWISE.
- 4. CONTRACTOR SHALL VERIFY ALL DIMENSION & RELATIONS TO OTHER WORK PRIOR TO FABRICATION & INSTALLATION.
- 5. COORDINATED & WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DRAWINGS.
- 6. THE CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS INDICATING ALL CHANGES & DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS.
- 7. ALL SANITARY SEWER PIPE SHALL BE SLOPED AT 1% UNLESS NOTED OTHERWISE.
- 8. SANITARY WASTE PIPING SHALL BE SDR 11 PVC COMPLIANT W/ IPC 2015.
- 9. UNLESS OTHERWISE NOTED, SANITARY SEWER PIPING SHALL BE SLOPED AT $\frac{1}{4}$ INCH PER FOOT (2%).

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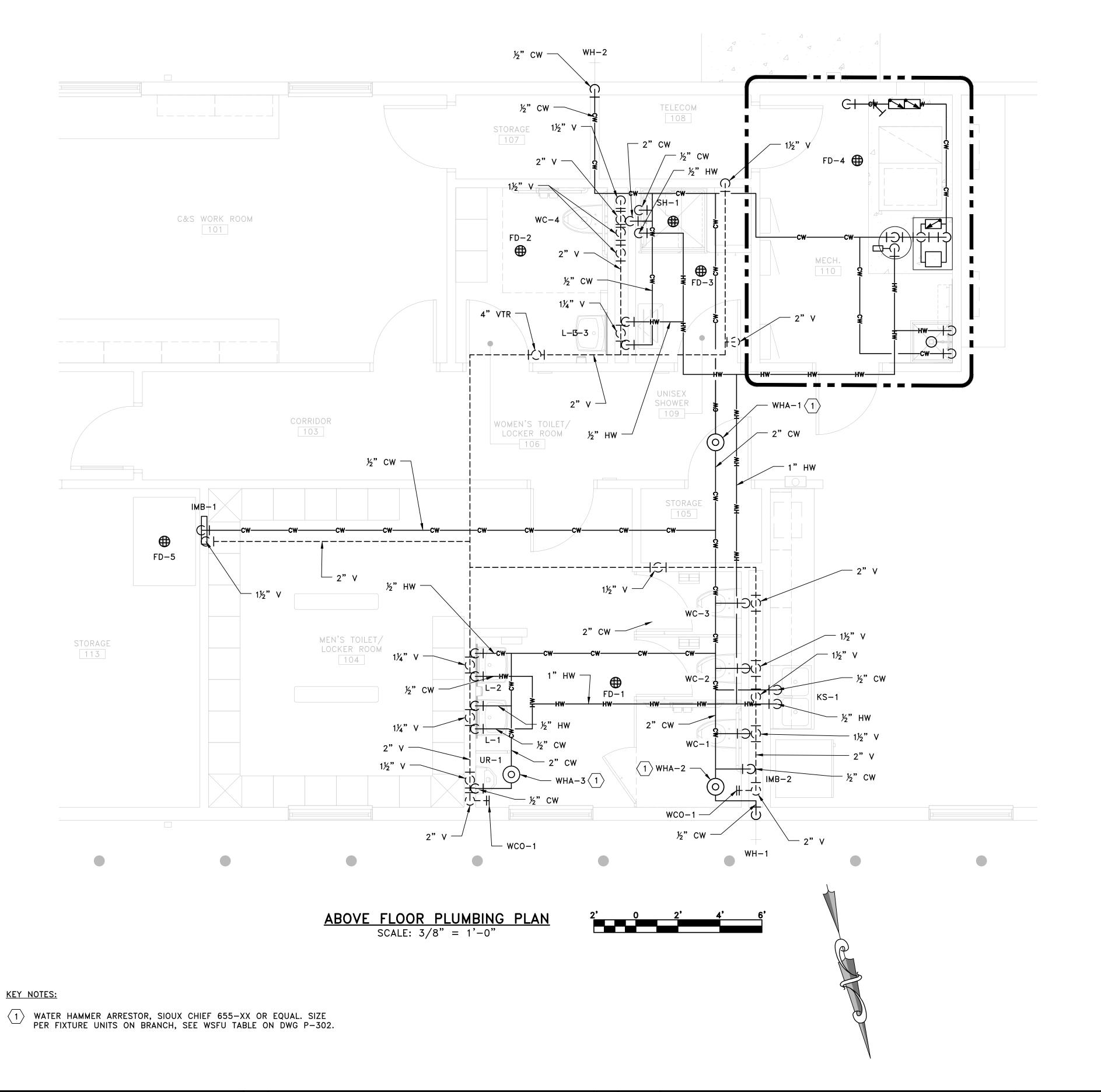
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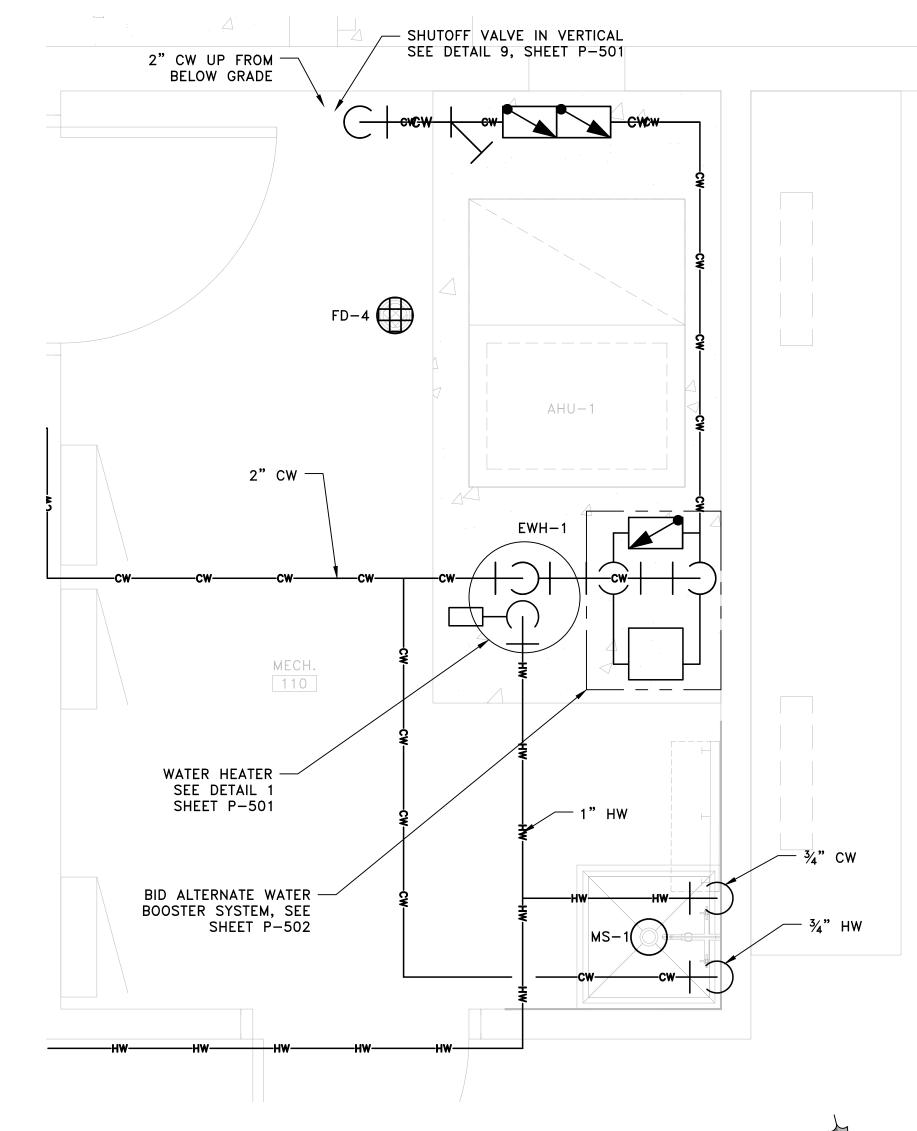
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	LA GATES Company CIVIL	
_	www.lagates.com COMPANY CIVIL	7
-	BECKLEY, HURRICANE, & BLUEFIELD WEST VIRGINIA NATURAL GAS ENGINEERS & CONSULTANTS	ſ
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CHECKED:	СМА	CAMBRIA YARD
DATE:	7-18-24	CHRISTIANSBURG, VIRGINIA
PROJECT NO:	24.080	

BELOW FLOOR PLUMBING PLAN

P-100





<u>DETAIL 2</u> <u>ENLARGED ABOVE FLOOR PLUMBING PLAN</u> SCALE: 3/4" = 1'-0"

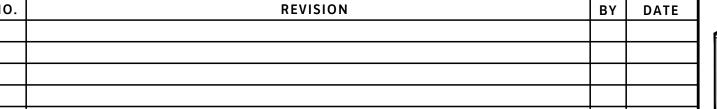


GENERAL NOTES:

- COORDINATE ALL ELECTRICAL & MECHANICAL FIXTURES WITH ELECTRICAL & MECHANICAL SCHEDULES AND DRAWINGS FROM APPROPRIATE SHEETS.
- 2. REFER TO CODE COMPLIANCE PLAN FOR ADDITIONAL INFORMATION. SEE DWG A-001.
- 3. REFER TO THE ROOM FINISH SCHEDULE FOR CEILING HEIGHTS, UNLESS NOTED OTHERWISE.
- 4. CONTRACTOR SHALL VERIFY ALL DIMENSION & RELATIONS TO OTHER WORK PRIOR TO FABRICATION & INSTALLATION.
- 5. COORDINATED & WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DRAWINGS.
- 6. THE CONTRACTOR SHALL FURNISH AS—BUILT DRAWINGS INDICATING ALL CHANGES & DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS.
- 7. PROVIDE FLOOR DRAINS PER DETAIL 8, SHEET P-501.
- 8. PROVIDE LAVATORIES PER DETAIL 3, SHEET P-501.
- 9. PROVIDE WATER CLOSETS PER DETAIL 4, SHEET P-501.
- 10. PROVIDE URINALS PER DETAIL 5, SHEET P-501.
- 11. RUN WATER DISTRIBUTION IN FINISHED CEILING AND SUPPLY BRANCHES IN WALLS TO FIXTURES.



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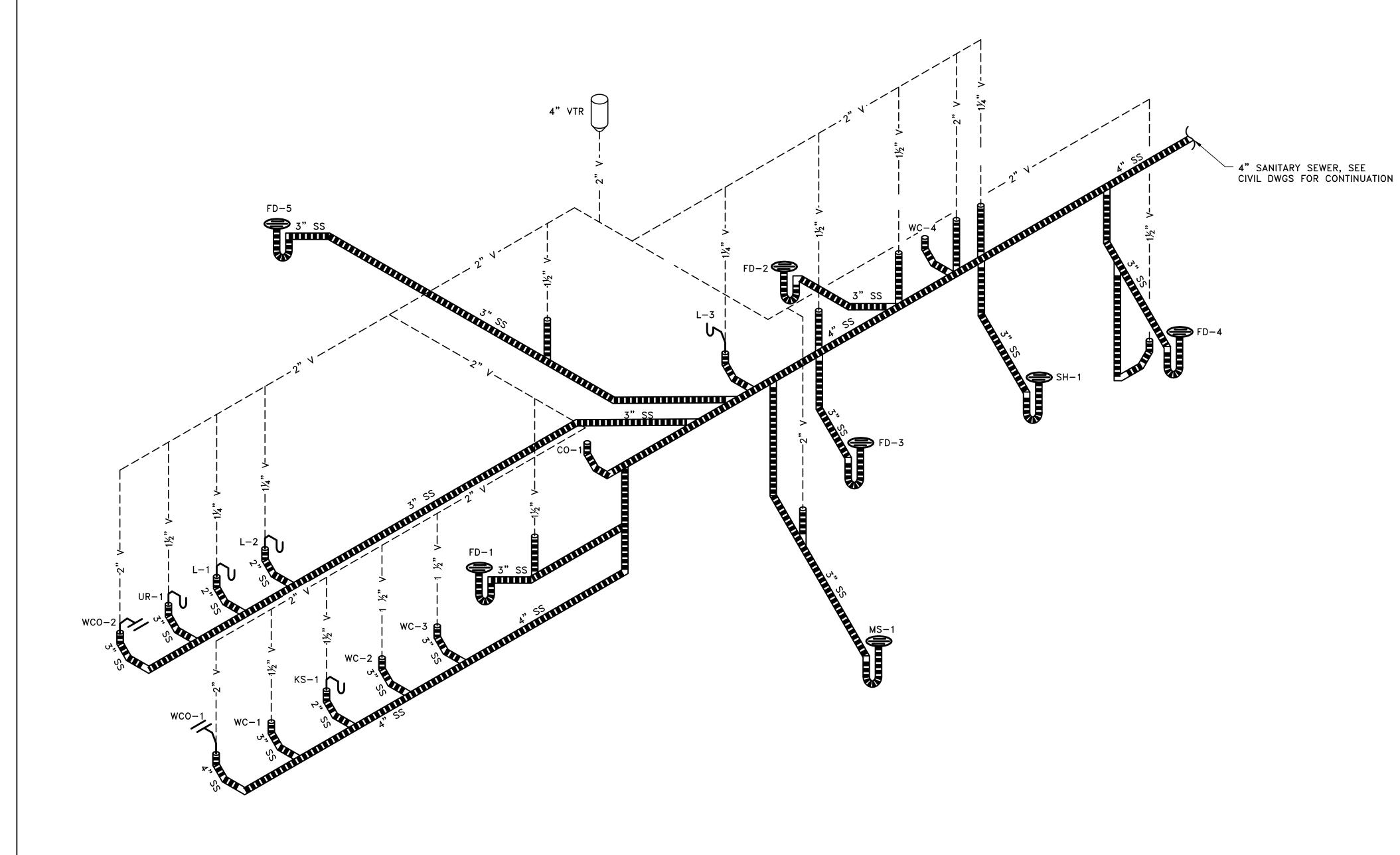


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AWN:	RDF	NORFOLK SOUTHERN CO
ECKED:	СМА	CAMBRIA YAR
TE:	7-18-24	CHRISTIANSBURG, V
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ORPORATION ABOVE FLOOR PLUMBING PLAN

P-120

SHEET NO.



PLUMBING FIXTURE CONNECTION SCHEDULE									
			SUPF	PLIES					
FIX. NO.	WASTE	VENT	HW	CW	WSFU	DFU	REMARKS		
WC-1	4"	2"	_	2"	2.5	4	SEE DETAIL 4, SHEET P-501		
WC-2	4"	2"	_	2"	2.5	4	SEE DETAIL 4, SHEET P-501		
WC-3	4"	2"	_	2"	2.5	4	SEE DETAIL 4, SHEET P-501		
WC-4	4"	2"	_	2"	2.5	4	SEE DETAIL 4, SHEET P-501		
UR-1	3"	1½"	_	1½"	2	2	SEE DETAIL 5, SHEET P-501		
L-1	2"	11/4"	1/2"	1/2"	1	1	SEE DETAIL 3, SHEET P-501		
L-2	2"	11/4"	1/2"	1/2"	1	1	SEE DETAIL 3, SHEET P-501		
L-3	2"	11/4"	1/2"	1/2"	1	1	SEE DETAIL 3, SHEET P-501		
KS-1	2"	11/4"	1/2"	1/2"	1.5	2			
MS-1	3"	2"	3/4"	3/4"	1.5	3			
SH-1	2"	11/4"	1/2"	1/2"	2	2			
FD-1	3"	1½"	_	-	_	2	SEE DETAIL 8, SHEET P-501		
FD-2	3"	1½"	_	_	_	2	SEE DETAIL 8, SHEET P-501		
FD-3	3"	1½"	_	_	_	2	SEE DETAIL 8, SHEET P-501		
FD-4	3"	1½"	_	_	_	2	SEE DETAIL 8, SHEET P-501		
FD-5	3"	1½"	_	_	_	2	SEE DETAIL 8, SHEET P-501		
CO-1	4"	_	_	_	_	_			
WCO-1	4"	_	_	_	_	_			
WCO-2	4"	_	_	_	_	_			
IMB-1	_	-	-	1/2"	_	_			
IMB-2	_	_	-	1/2"	_	_			
WH-1	_	-	_	3/4"	2.5	_	SEE DETAIL 10, SHEET P-501		
WH-2	_	-	_	3/4"	2.5	_	SEE DETAIL 10, SHEET P-501		
WH-2	_	-	-	3/4"	2.5	_	SEE DETAIL 10, SHEET P-501		
				TOTAL	27.5	38	SEE DETAIL 10, SHEET P-501		

SANITARY SEWER RISER DIAGRAM
SCALE: N.T.S.

NORFOLK SOUTHERN

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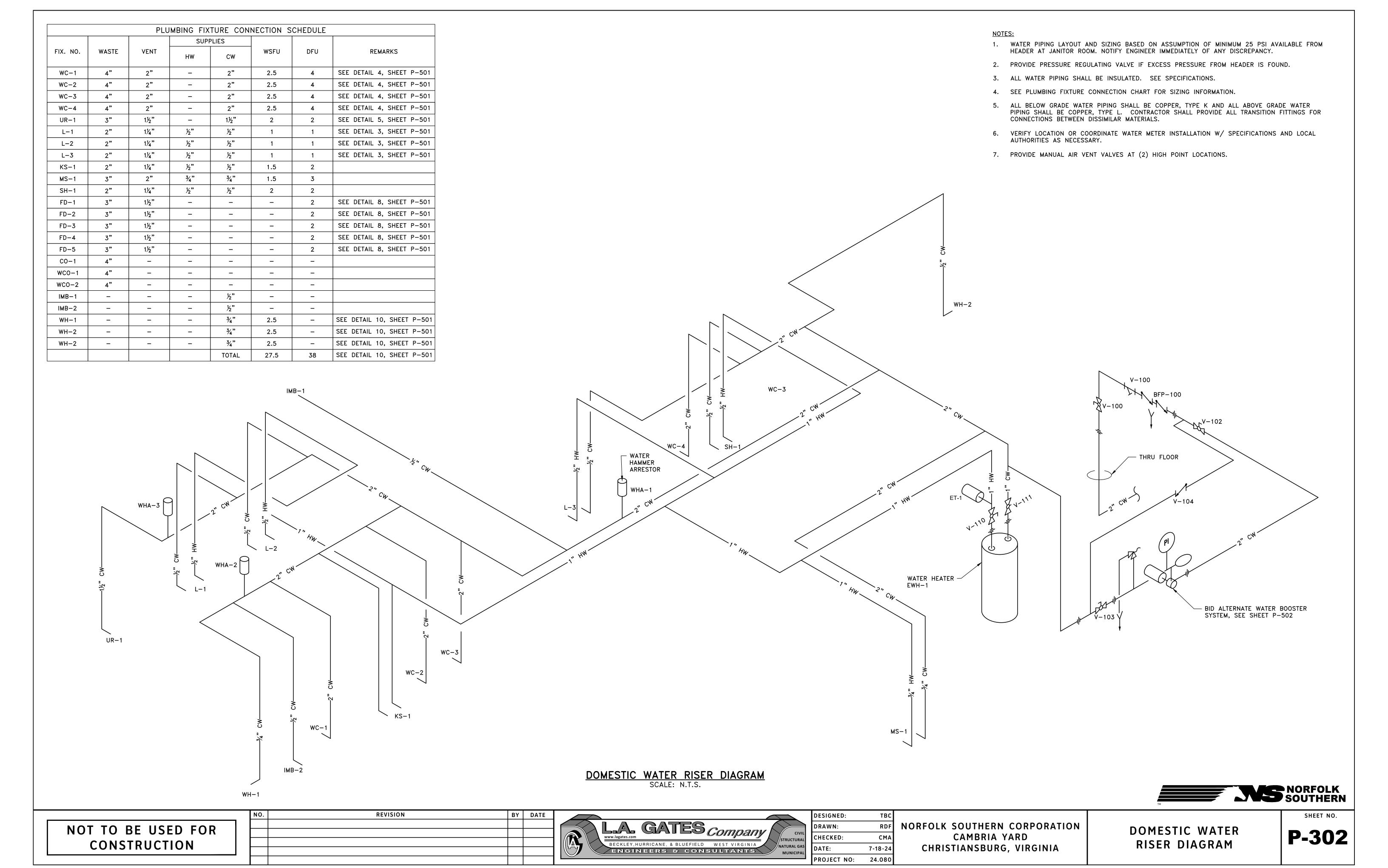


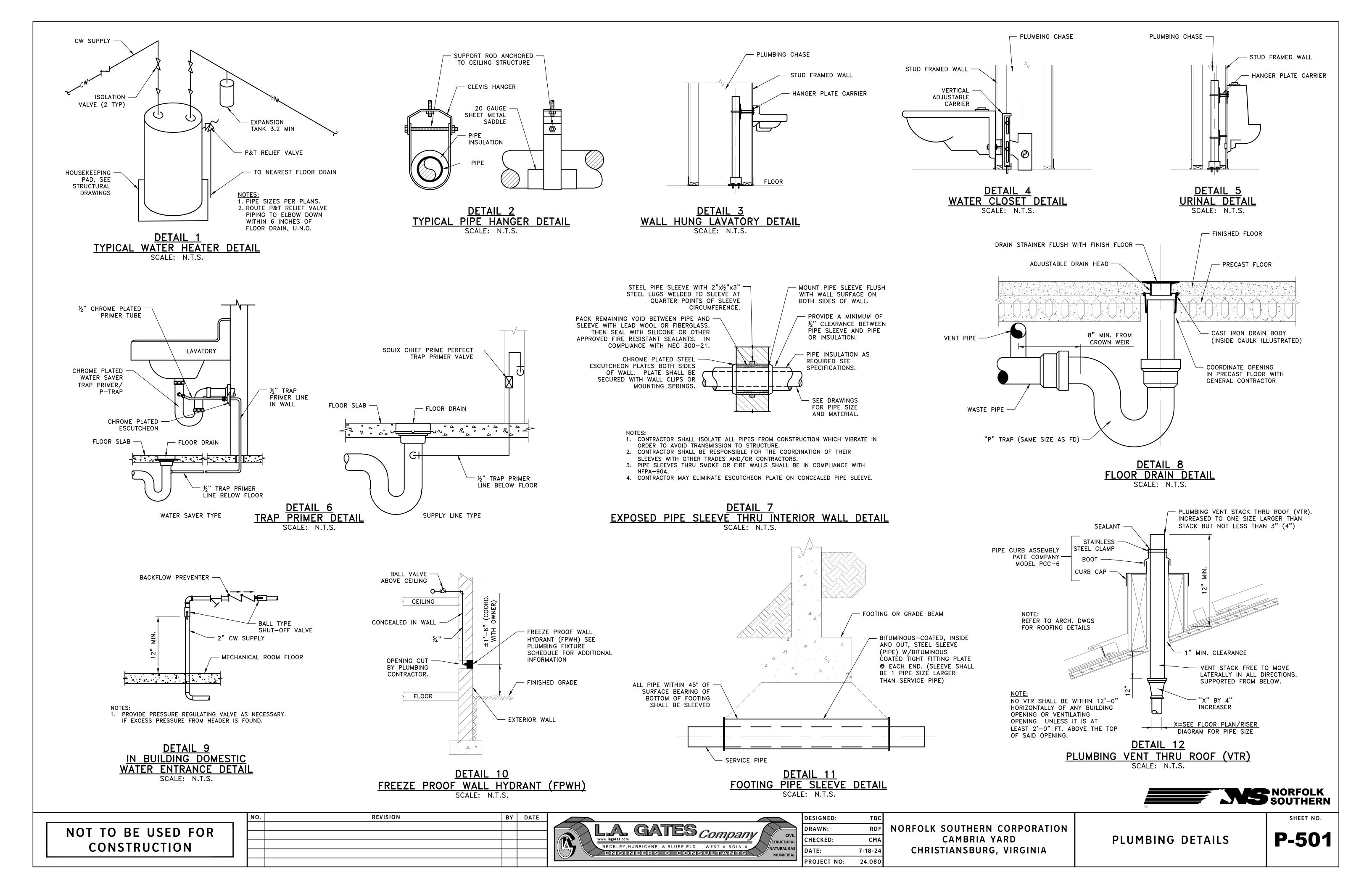
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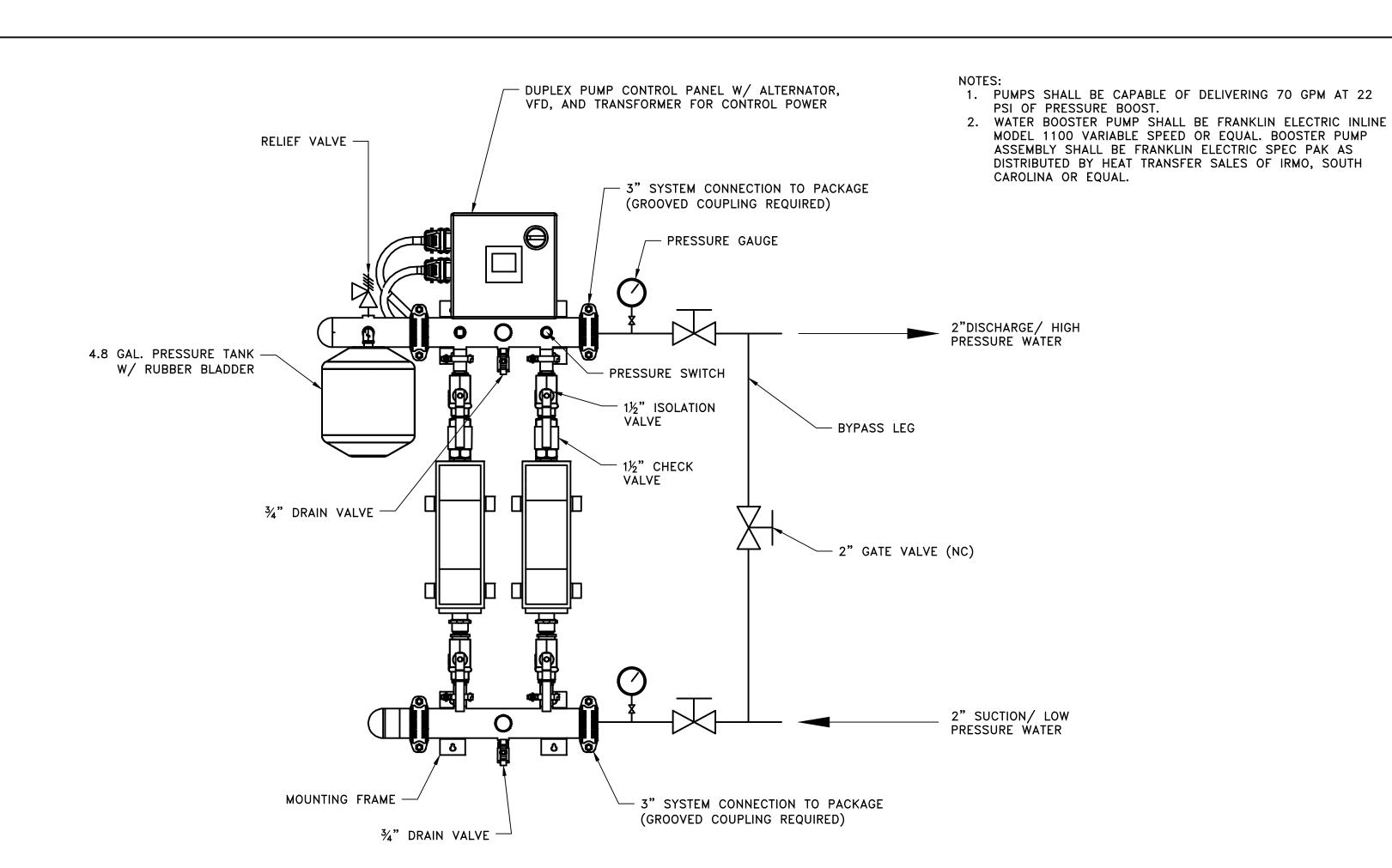
NORFOLK SOUTHERN CORPORATION
CAMBRIA YARD
CHRISTIANSBURG, VIRGINIA

SANITARY SEWER RISER DIAGRAM SHEET NO.

P-301







BOOSTER PUMP
ALTERNATE BID ITEM
SCALE: N.T.S.

NORFOLK SOUTHERN

NOT TO BE USED FOR CONSTRUCTION

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LA GATES Company	CIVIL
PECKLEY HUDDICANE & BUHEFIELD WEST VIDCINIA	STRUCTURAL NATURAL GAS
ENGINEERS & CONSULTANTS	MUNICIPAL

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NORFOLK SOUTHERN CORPORATION
CAMBRIA YARD
CHRISTIANSBURG, VIRGINIA

PLUMBING DETAILS

P-502

SHEET NO.

					WATER HE	ATER SCH	EDULE				
	MANUEACTURER		INDUT DATING	NOMINAL STORAGE	DECOVERY	TEMP	DIAMETER	PROCESS	ELECT	RICAL	
LOCATION	MANUFACTURER MODEL #	TYPE	(KW)	NOMINAL STORAGE CAPACITY (GAL.)		TEMP. RISE (°F)	(IN.)	CONN. (IN.)	VOLTS	PHASE	REMARKS
UTILTY ROOM	A.O. SMITH HNT-55	ELECTRIC	4.5	55	21	90	12	3/4	240	1	PIPE RELIEF TO 6" AFF NEAR FLOOR DRAIN, PROVIDE DIELECTRIC UNION IN HOT & COLD WATER PIPE CONNECTIONS. PROVIDE INTEGRAL THERMOSTAT AND HIGH TEMP CUTOFF SWITCH FOR ELEMENTS, FUSED INTERNAL CIRCUITS, J-BOX WITH TERMINAL BLOCK

				BA	ACKFLOW PREVE	NTER SCHEDULE			
UNIT #	MANUFACTURER MODEL #	SIZE (IN.)	FLOW RATE (GPM)	PRESSURE LOSS (PSI)	ISO BALL VALVE CONSTRUCTION	RELIEF VALVE	INLET STRAINER	END CONNECTION	REMARKS
BFP-1	APOLLO RPLF4A	2	70	11	BRONZE BODY, SILICONE DISC	STAINLESS STEEL, REMOVABLE SEAT	BRONZE CONSTRUCTION	NPT	LEAD FREE, INCLUDE AIR GAP FITTING, Y-STRAINER, BALL VALVES, TEST COCKS. DRAIN OUTLET SHALL BE TYPE M COPPER TUBE, ROUTED FULL SIZE, AND DISCHARGE W/90 DEG. ELBOW DIRECTED INTO DRAIN

				CHECK	VALVE SCHEDULE			
SERVICE	MANUFACTURER MODEL #	STYLE	BODY MATERIAL	SPRING	SEATS/SEALS	SIZE RANGE (IN.)	END CONNECTIONS	REMARKS
POTABLE WATER	FNW FIG. X431	2 PIECE, INLINE	FORGED BRASS	STAINLESS STEEL	NBR/EPDM	½ TO 2	PRESS	NSF-61 APPROVED FOR POTABLE WATER APPLICATIONS

				BALL	VALVE SCHEDULE			
SERVICE	MANUFACTURER MODEL #	STYLE	BODY MATERIAL	TRIM	PACKING/SEATS/SEALS	SIZE RANGE (IN.)	END CONNECTIONS	REMARKS
POTABLE WATER	FNW FIG. 430	FULL PORT, 2 PIECE	FORGED BRASS	BRASS, NICKEL-CHROME PLATED	PTFE/PTFE/NBR/EPDM	1⁄4 TO 2	PRESS	PROVIDE WITH LOCKING LEVER, NSF-61 APPROVED FOR POTABLE WATER APPLICATIONS, INCL STEM EXTENSION FOR INSULATED SYSTEMS

			STRAINER SCHEDULE		
SERVICE	MANUFACTURER MODEL #	STYLE	DESCRIPTIONS	END CONNECTIONS	REMARKS
WATER	WATTS 777-S1	WYE TYPE	CAST BRONZE BODY, SS 40 MESH SCREEN, W/ TAPPED RETAINER CAP AND CLOSURE PLUG	2" FNPT	NSF-61 APPROVED FOR POTABLE WATER APPLICATIONS

				XTURE SCHEDULE	
UNIT NO.	MANUFACTURER MODEL NO.	MOUNTING HEIGHT	MATERIAL	ACCESSORIES	REMARKS
WC-2 WC-3	AMERICAN STANDARD AFWALL MILLENIUM #2859.016	WALL MOUNT — 14¾" ABOVE FINISH FLOOR	WHITE VITREOUS CHINA	MANUAL FLUSH VALVE, WHITE HEAVY DUTY SEAT AMERICAN STANDARD W/ EVERCLEAN #5905.110, AND BOLT CAPS	SIPHON JET, ELONGATED BOWL, 1½" TOP SPUD, 1.6 GALLON FLUSH, SUPPORT BY CARRIER SYSTEM ZURN Z1201-ND4 OR EQUAL
WC-1 WC-4	AMERICAN STANDARD AFWALL MILLENIUM #2859.016, WITH ADA ACCESSORIES	WALL MOUNT — 17½" ABOVE FINISH FLOOR	WHITE VITREOUS CHINA	MANUAL FLUSH VALVE, WHITE HEAVY DUTY SEAT AMERICAN STANDARD W/ EVERCLEAN #5905.110, AND BOLT CAPS	ADA COMPLIANT SIPHON JET, ELONGATED BOWL, 1½" TOP SPUD, 1.6 GALLON FLUSH, SUPPORT BY CARRIER SYSTEM ZURN Z1201-ND4 OR EQUAL
UR-1	AMERICAN STANDARD WASHBROOK FLOWISE UNIVERSAL URINAL #6590.001	WALL MOUNT — 24" ABOVE FINISH FLOOR	WHITE VITREOUS CHINA	AMERICAN STANDARD MANUAL #6045.101.002 FLUSH VALVE	BLOW-OUT, WALL HUNG, INTEGRAL TRAP, WALL HANGERS, 2" IPS OUTLET, 3/4" TOP SPUD, 1 GALLON FLUSH, SUPPORT BY PLATE SYSTEM ZURN Z122 OR EQUAL
LAV-1 LAV-2 LAV-3	AMERICAN STANDARD COMRADE 0124.131 WALL-HUNG LAVATORY	WALL MOUNT — 34" ABOVE FINISH FLOOR	WHITE VITREOUS CHINA	CHICAGO 420-E2805ABCP ADA COMPLIANT, 4" CENTER, DECK MOUNTED FITTING W/ POP-UP, CERAMIC MIXING CARTRIDGE, 120° MAXIMUM MIXING ANGLE, SOFTFLO AERATOR, TEMPERATURE LIMIT STOP, CHROME PLATE FINISH. PREFABRICATED INSULATION KIT FOR EXPOSED TRAPS, WASTE PIPING AND WATER SUPPLY, MANUFACTURED BY BROCAR PRODUCTS OR EQUAL.	20" x 18¼", 4" CENTERS, ADA COMPLIANT, REAR OVERFLOW, SOAP DEPRESSION, DRILLED FOR CONCEALED ARM SUPPORT
KS-1	ELKAY LUSTERTONE LR3322 SINK	LAY-IN COUNTER TOP	#18 GAUGE, TYPE 304 STAINLESS STEEL	CHICAGO 201-G8AE3-317AB SINK MOUNTED FAUCET, NO. 317 WRIST BLADE HANDLES, SWING PLAIN END GOOSENECK SPOUT, LAMINAR FLOW CONTROL IN SPOUT, QUATURN OPERATING CARTRIDGE. SS STRAINER, LK35 CRUMB CUP, REMOVABLE BASKET.	33"x22" OUTSIDE DIMENSIONS, TWO 13½"x16"x7¾" BOWLS, SELF—RIMMING SOUND DEADENED, 3 HOLE 4" CENTERS, 3½" DRAIN OPENING
SHR-1	AQUATIC BATH ACCESSIBLE SHOWER MODEL #1363BFSD COMPLIES WITH ADA	FLOOR SET	ONE PIECE, OPEN TOP WITH INNER AND OUTER SURFACES GALVANIZED-BONERIZED STEEL FINISH IN SYNTHETIC BAKED-ON ENAMEL	INCLUDES THERMOSTATICALLY CONTROLLED, SINGLE LEVER MIXING VALVE WITH SERVICE STOPS. AQUATIC BATH, HAND HELD SHOWER HEAD WITH SWIVEL FITTING, 69" FLEXIBLE STAINLESS STEEL HOSE WITH IN-LINE VACUUM BREAKER, RETRACTABLE PHENOLIC SHOWER SEAT WITH STAINLESS STEEL FRAME, ONE (1) WRAP-AROUND STAINLESS STEEL GRAB BAR, ONE (1) VERTICAL STAINLESS STEEL GRAB BAR, CURTAIN ROD, 10 OZ. GSA APPROVED CURTAIN.	36"W x 36"D x 75¼"H INSIDE DIMENSIONS, INSTALLED WITH ACCESSORIES SEALED WATERPROOF AND THRESHOLD SHALL NOT EXCEED ½" ABOVE FINISHED FLOOR MATERIAL. SEE STALL EDGE INSTALLATION DETAILS ON THE ARCHITECTURAL DRAWINGS.
MS-1	STERN WILLIAMS MOP SERVICE BASIN MTB-2424	FLOOR SET	ONE-PIECE MOLDED PORTLAND CEMENT WITH MARBLE CHIPS AND SEALER	CHICAGO FAUCET 897—RCF, 8" BODY, ADJUSTABLE ARMS, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE. INTEGRAL STOP VALVES FOR SERVICING	24"x24" OUTSIDE DIMENSIONS, WITH 11/4" WIDE SHOULDER. HEIGHT SHALL BE 10". DRAIN SHALL BE INTEGRALLY MOLDED, COMPLETE WITH DRAIN SEAL FOR INSTALLATION OF 3" IRON PIPE. REMOVABLE STAINLESS STEEL STRAINER.
FPWH-1 FPWH-2	WOODFORD B67 BOX TYPE FREEZELESS WALL HYDRANT	MOUNT — 36" ABOVE FINISH FLOOR	8" BOX AND DOOR ANODIZED ALUMINUM, HYDRANT STANDARD CHROME	FREEZELESS, AUTOMATIC DRAINING, NIDEL MODEL 50HA HIGH FLOW DOUBLE CHECK BACKFLOW PREVENTER, STAINLESS STEEL OPERATING STEM	ASSE STANDARD 1052 APPROVED, ¾" FNPT
SD-1	JOSAM 30000-A-CP FLOOR DRAIN	FLUSH WITH SHOWER FLOOR	CAST IRON WITH CHROME PLATED STRAINER	TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE AND 1/2" PRIMER TAP, WEJLOC INVERTIBLE FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET CONNECTION AND NIKALOY ADJUSTABLE ROUND SUPER-FLO CHROME PLATED STRAINER.	SUITABLE FOR PEDESTRIAN TRAFFIC AREAS
FD-1 FD-2 FD-3 FD-4 FD-5	JOSAM 30000-A-2 FLOOR DRAIN	FLUSH WITH FINISHED FLOOR	CAST IRON WITH BRONZE ADJUSTABLE STRAINER	TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE AND 1/2" PRIMER TAP, WEJLOC INVERTIBLE FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET CONNECTION AND NIKALOY ADJUSTABLE ROUND SUPER-FLO BRONZE STRAINER.	SUITABLE FOR PEDESTRIAN TRAFFIC AREAS
CO-1	JOSAM 58540 PLUG CLEANOUT	THREADED BRONZE PLUG	FINISH BRONZE	FOR ANY N.P.T. FEMALE THREADED FITTING	COUNTERSUNK BRONZE N.P.T THREADED PLUG FOR USE IN CONJUNCTION WITH STANDARD PIPE FITTINGS.
WCO-1 WCO-2	JOSAM 58600-COT WALL CLEANOUT	24" ABOVE FINISH FLOOR	STAINLESS STEEL	CLEAN OUT COVER WITH NO-HUB CLEANOUT TEE	SS COVER, CAST IRON TEE
IMB-1 IMB-2	OATEY 39125	48" ABOVE FINISH FLOOR	FULLY RECESSED	1/4 TURN BALL VALVE AND WATER HAMMER ARRESTOR IN BOX, MAKE FINAL CONNECTION TO BOX WITH STAINLESS STEEL BRAIDED HOSE.	FULLY RECESSED WALL SUPPLY BOX WITH COVER

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ORFOLK SOUTHERN CORPORATION
CAMBRIA YARD
CHRISTIANSBURG, VIRGINIA

PLUMBING SCHEDULES

P-601