PLUMBING GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED STATE AND LOCAL CODES, AS WELL AS FEDERAL, STATE, AND MUNICIPAL REGULATIONS.

2. EQUIPMENT SHALL CONFORM TO LATEST ADOPTED ENERGY CONSERVATION CODE OR STANDARDS.

3. WORK SHALL COMPLY WITH RULES AND REGULATIONS OF LOCAL UTILITY COMPANIES. INCLUDE COST OF VALVES, VALVE BOXES, METER BOXES, METERS, ACCESSORY EQUIPMENT REQUIRED FOR PROJECT.

4. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO RESULT IN A COMPLETE PLUMBING INSTALLATION IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.

5. DRAWINGS ARE DIAGRAMMATIC IN CHARACTER AND DO NOT NECESSARILY INDICATE EVERY REQUIRED PIPE, OFFSET, TRANSITION, ETC. ITEMS NOT SPECIFICALLY MENTIONED IN THE SPECIFICATION OR NOTED ON THE DRAWINGS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED.

6. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. WHATEVER IS CALLED FOR IN EITHER IS BINDING AS THOUGH CALLED FOR IN BOTH. IF THERE IS A CONFLICT IN THE CONTRACT DOCUMENTS, THE MORE DEMANDING AND COSTLY DESIGN SHALL BE SELECTED FOR BIDDING PURPOSES. THE CONTRACTOR SHALL IMMEDIATELY PRESENT THE CONFLICT FOUND IN THE CONTRACT DOCUMENTS TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

7. DRAWINGS SHALL NOT BE SCALED FOR ROUGH-IN MEASUREMENTS OR USED AS SHOP DRAWINGS. WHERE DRAWINGS ARE REQUIRED FOR THESE PURPOSES OR HAVE TO BE MADE FROM FIELD MEASUREMENTS, TAKE THE NECESSARY MEASUREMENTS AND PREPARE THE DRAWINGS.

8. BEFORE ANY WORK IS INSTALLED, DETERMINE THAT EQUIPMENT WILL PROPERLY FIT THE SPACE, THAT REQUIRED CLEARANCES CAN BE MAINTAINED AND THAT EQUIPMENT CAN BE LOCATED WITHOUT INTERFERENCES BETWEEN SYSTEMS, WITH STRUCTURAL ELEMENTS, OR WITH THE WORK OF OTHER TRADES.

9. IF CONFLICTS ARE DISCOVERED IN CONTRACT DOCUMENTS, SUBMIT A SET OF DRAWINGS MARKED WITH RED PENCIL SHOWING RECOMMENDED MODIFICATIONSTO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

10. CONTRACTOR SHALL COORDINATE ROUGH-IN REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT PRIOR TO ROUGH-IN. ENSURE ALL EQUIPMENT CONNECTIONS ARE PROVIDED FOR AND THAT THE INSTALLATION WILL MEET ALL LOCAL AND NATIONAL CODE REQUIREMENTS.

11. CONFER, COOPERATE, AND COORDINATE WORK WITH OTHER TRADES. COORDINATE CEILING CAVITY SPACE CAREFULLY WITH ALL TRADES. IN EVENT OF CONFLICT, INSTALL MECHANICAL AND ELECTRICAL SYSTEMS WITHIN CAVITY SPACE.

12. ARRANGE AND PAY FOR ALL INSPECTIONS, PERMITS, LICENSES, CERTIFICATES, AND FEES REQUIRED IN CONNECTION WITH WORK.

13. PROVIDE SHOCK ARRESTORS AT COLD AND HOT WATER CONNECTIONS TO FIXTURE CONNECTIONS WITH QUICK CLOSING VALVES AND AT EACH RESTROOM GROUP. SHOCK ARRESTORS INSTALLATIONS SHALL BE PER ASSE 1010 GUIDELINES AND EQUIPMENT MANUFACTURER.

14. DWV AND SUPPLY PIPING ROUTED THROUGH FINISHED AREAS SHALL BE CONCEALED ABOVE CEILING OR IN FURRED-OUT WALL. DRAIN/WASTE AND VENT (DWV) AND SUPPLY PIPING SHALL NOT BE EXPOSED IN FINISHED AREAS UNLESS OTHERWISE NOTED ON THE DLDLPLANS.

15. PLUMBING CONTRACTOR SHALL PROVIDE ALL DRAINAGE LINES FROM EQUIPMENT PROVIDED UNDER PLUMBING CONTRACT TO FLOOR DRAINS. INSTALL WITH AN AIR GAP AT A MINIMUM OF 2 TIMES THE DRAINAGE PIPE DIAMETER.

16. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY ABOVE FLOOR PIPE SLEEVES AND COORDINATION OF PIPE SLEEVE LOCATIONS.

17. PLUMBING VTRS SHALL BE A MINIMUM OF 15'-0" FROM ANY HVAC OUTDOOR AIR OPENINGS.

18. SUBMITTALS SHALL INCLUDE CATALOG CUT-SHEETS AND MANUFACTURER'S DATA SHEETS.

19. PRIOR TO ORDERING EQUIPMENT OR BEGINNING INSTALLATION, ASSEMBLE, PREPARE, AND FURNISH SUBMITTALS AND SHOP DRAWINGS REQUIRED FOR PROJECT. FURNISH SUBMITTALS AND SHOP DRAWINGS AS REQUIRED BY INDIVIDUAL SECTIONS OF SPECIFICATIONS.

20. CONTRACTOR SHALL THOROUGHLY CHECK SUBCONTRACTORS' OR VENDORS' SUBMITTALS AND SHOP DRAWINGS AND, AFTER APPROVING THEM, SUBMIT THEM FOR REVIEW. SUBMITTALS AND SHOP DRAWINGS THAT DO NOT BEAR CONTRACTOR'S REVIEW STAMP WILL BE RETURNED NOT REVIEWED.

21. IF DISCREPANCIES BETWEEN SUBMITTALS, SHOP DRAWINGS, AND CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SUBMITTALS AND SHOP DRAWINGS ARE REVIEWED, REQUIREMENTS OF CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE. SUBMITTALS AND SHOP DRAWINGS WHICH ARE SUBMITTED, BUT WHICH ARE NOT REQUIRED BY CONTRACT DOCUMENTS, WILL BE RETURNED NOT REVIEWED.

22. KEEP IN CUSTODY DURING ENTIRE PERIOD OF CONSTRUCTION, A CURRENT SET OF DOCUMENTS INDICATING CHANGES THAT HAVE BEEN MADE TO THE CONTRACT DOCUMENTS.

23. UPON COMPLETION OF WORK, SUBMIT THE COMPLETE SET OF RECORD DOCUMENTS TO THE ARCHITECT.

24. PROTECT MATERIALS AND EQUIPMENT FROM PHYSICAL DAMAGE, CONSTRUCTION DIRT, AND THE ELEMENTS FROM TIME OF SHIPMENT TO TIME INSTALLATION IS ACCEPTED BY OWNER.

25. GUARANTEE MATERIALS, WORKMANSHIP, AND OPERATION OF EQUIPMENT INSTALLED FOR PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF ENTIRE WORK. REPAIR OR REPLACE ANY PART OF WORK WHICH SHOWS DEFECT DURING THAT TIME.

26. BE RESPONSIBLE FOR DAMAGE TO PROPERTY OF OWNER OR TO WORK OF OTHER CONTRACTORS DURING CONSTRUCTION AND GUARANTEE PERIOD.

27. FURNISH EQUIPMENT WARRANTIES TO OWNER.

28. DO NOT COVER UP OR ENCLOSE WORK UNTIL INSPECTED, TESTED, AND APPROVED. ANY WORK ENCLOSED OR COVERED UP BEFORE SUCH APPROVAL SHALL BE UNCOVERED, TESTED, AND APPROVED.

29. FURNISH HINGED STEEL ACCESS DOORS WITH CONCEALED LATCH, WHETHER SHOWN OR NOT, IN WALLS AND PLASTER OR GYPSUM BOARD CEILINGS FOR ACCESS TO CONCEALED CLEANOUTS, VALVES, SHOCK ARRESTERS, AIR VENTS, MOTORS, FANS, BALANCING VALVES, OR OTHER OPERATING DEVICES REQUIRING ADJUSTMENT OR SERVICING.

30. ACCESS DOOR SHALL BE SIZE OF EQUIPMENT TO BE REMOVED OR 24" BY 24" IF USED FOR SERVICE ONLY.

31. ANY PENETRATION IN WHICH PIPING RUNS THROUGH THE ICC 500 STORM SHELTER PERIMETER LARGER THAN 2.5" Ø SHALL BE PROTECTED PER ICC 500 SECTIONS 306.4 AND 603

31. APPEARANCE OF WORK SHALL BE OF EQUAL IMPORTANCE TO ITS MECHANICAL OPERATION. LACK OF QUALITY WORKMANSHIP SHALL BE REASON FOR REJECTION OF SYSTEM IN PART OR IN WHOLE.

32. INSTALL SO THAT ALL VALVES AND EQUIPMENT CAN BE EASILY ACCESSED AND SERVICED BY ADEQUATE CLEARANCE, INSTALLATION OF ACCESS DOORS, UNIONS IN PIPING, OR OTHER METHODS.

33. COMPLETE INSTALLATION SHALL FUNCTION SMOOTHLY AND NOISELESSLY.

34. INSTALL EQUIPMENT AND MATERIALS PER MANUFACTURERS' RECOMMENDATIONS AND LOCAL CODES OR REGULATIONS.

35. FLUSH PIPES FREE OF FOREIGN SUBSTANCES BEFORE INSTALLING VALVES OR MAKING FINAL CONNECTIONS. CLEAN ALL PIPING AND EQUIPMENT.

36. CLEAN INSULATION COVERING, PIPES, EQUIPMENT, AND ACCESSORIES TO RECEIVE PRIME COAT OF PAINT. CLEAN EQUIPMENT RECEIVED WITH PRIME COAT TO RECEIVE FINAL COAT.

37. INSTRUCT OWNER IN OPERATION AND MAINTENANCE OF PLUMBING SYSTEMS. MINIMUM PARTICIPANTS SHALL INCLUDE PLUMBING CONTRACTOR AND CONTROLS CONTRACTOR REPRESENTATIVES.

38. AFTER TESTS AND ADJUSTMENTS HAVE BEEN MADE AND SYSTEMS PRONOUNCED SATISFACTORY FOR PERMANENT OPERATION, REFINISH DAMAGED FINISH AND LEAVE EVERYTHING IN PROPER WORKING ORDER AND APPEARANCE.

39. PROVIDE DIELECTRIC UNIONS AS REQUIRED.

PIPE MATERIAL SCHEDULE

NOTES:
THIS SCHEDULE IS FOR PIPING INSIDE OF BUILDING AND BELOW FLOOR WITHIN THE BUILDING.

SUPPORT PIPING WITH CLEVIS OR SPLIT RING TYPE PIPE HANGERS. "PLUMBING TAPE AND WIRE" NOT PERMITTED.

SERVICE		SCHEDULE 40 PVC DWV ASTM D 2665, SOLID WALL TYPE 1, GRADE 1	COPPER TYPE K SN95 SOLDER	COPPER TYPE L SN95 SOLDER	BLACK STEEL SCH 40 THREADED FITTINGS	CAST IRON SOIL PIPE WITH HUBLESS FITTINGS UNLESS OTHERWISE NOTED	ABS, DWV SOLVENT WELD	REMARKS
WATER (CW) (HW) (2)	INSIDE		•					
	BELOW GRADE	•						
SANITARY / SOIL / WASTE DRAINAGE (1) (SS)	ABOVE GRADE	•				•		GRAVITY
	BELOW GRADE	•					•	
SANITARY VENT (SV)	ABOVE GRADE	•				•		GRAVITY
	BELOW GRADE	•				•		
STORM WATER (1) (RWL, OFD, SW)	ABOVE GRADE	•				•		GRAVITY
	BELOW GRADE	•					•	
INDIRECT WASTE (IDW)	INSIDE			•			•	GRAVITY
	OUTSIDE			•			•	
CONDENSATE (2) (CD)	ABOVE GRADE			•				GRAVITY
	BELOW GRADE			•				

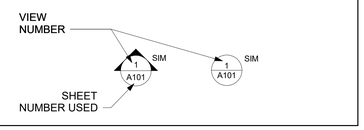
(1) FOR CAST-IRON PIPE AND FITTINGS EMBEDDED IN CONCRETE, WRAP CAST IRON PIPE AND FITTINGS COMPLETELY IN AT LEAST TWO LAYERS OF APPROVED PIPE WRAP WITH 50% OVERLAP TO PREVENT DAMAGE FROM CONTACT WITH CONCRETE.

(2) GLASS FIBER PIPE INSULATION WITH FACTORY APPLIED WHITE JACKET, J-M MOCRO-LOK 750AP, 1 INCH THICK FOR PIPE SIZES 1 INCH AND SMALLER. 1 1/2 INCHES THICK FOR PIPE SIZES 1 1/4 INCHES AND LARGER.

PLUMBING LEGEND

SYMBOL	DESCRIPTION **NOT ALL SYMBOLS MAY BE USED**
	REDUCED PRESSURE BACKFLOW PREVENTER
	P TRAP
	BALL VALVE
	FLOOR DRAIN
P- No.	PLUMBING FIXTURE DESIGNATION
	END CAP
CO OR CO	CLEAN OUT
	CHECK VALVE
	BALANCING VALVE
	CONNECT TO EXISTING
FCO	FLOOR CLEAN OUT
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HW140	DOMESTIC HOT WATER 140
HWR	HOT WATER RETURN
CD	CONDENSATE DRAIN
IDW	INDIRECT DRAIN
SS-FM	SANITARY SEWER WASTE - FORCED MAIN
SS	SANITARY WASTE
GW	GREASE WASTE
SV	SANITARY VENT
SD	STORM WATER
RWL	RAIN WATER LEADER
OFD	OVERFLOW DRAIN
NG	NATURAL GAS

VIEW NAME LEGEND



PLUMBING ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ADA	AMERICANS WITH DISABILITIES ACT	MTD	MOUNTED
AFF	ABOVE FINISHED FLOOR	OFE	OWNER FURNISHED EQUIPMENT
BPW	BED PAN WASHER	PUB	PUBLIC
CLG	CEILING	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
CONT	CONTINUATION	RWL	RAINWATER PIPING
COORD	COORDINATION	SS	SANITARY SEWER PIPING
CO	CLEAN OUT	SD	STORM PIPING
CW	COLD WATER LINE	SF	SQUARE FOOT
DN	DOWN	SV	SANITARY VENT PIPING
DWG	DRAWING	TMP	TEMPERATURE
EA	EACH	TMV	THERMOSTATIC MIXING VALVE
FM	FLOOR MOUNTED	TYP	TYPICAL
FV	FLUSH VALVE	VTR	VENT THROUGH ROOF
GN	GOOSENECK	W/	WITH
GPM	GALLONS PER MINUTE	WB	WRIST BLADE
HW	HOT WATER LINE	WC	WATER CLOSET
HWR	HOT WATER RETURN	WCO	WALL CLEAN OUT
LAV	LAVATORY	WH	WALL HUNG
MECH	MECHANICAL		

PLUMBING DESIGN CRITERIA:

DOMESTIC WATER PIPING SYSTEM:
BASIS OF DESIGN: 2023 FLORIDA BUILDING CODE, PLUMBING, EIGHTH EDITION, APPENDIX E "SIZING OF WATER PIPING SYSTEM".
HOT AND COLD-WATER PIPING SIZED NOT TO EXCEED 5 PSI/100 FT., VELOCITIES NOT TO EXCEED 7 FT/SEC.

WASTE AND VENT PIPING SYSTEM:
BASIS OF DESIGN: 2023 FLORIDA BUILDING CODE, PLUMBING, EIGHTH EDITION, CHAPTER 7 "SANITARY DRAINAGE".
ALL SANITARY WASTE PIPING SHALL BE SLOPED AT 1/4-INCH PER FOOT FOR PIPES 2-1/2 INCHES OR LESS, 1/8-INCH PER FOOT FOR PIPES BETWEEN 3 AND 6 INCHES, AND 1/16-INCH PER FOOT FOR PIPES 8 INCHES OR LARGER.

ROOF DRAIN/STORM DRAIN PIPING SYSTEMS:
BASIS OF DESIGN: 2023 FLORIDA BUILDING CODE, PLUMBING, EIGHTH EDITION, CHAPTER 11 "STORM DRAINAGE".
STORM DRAIN PIPING SIZED AT 1/8" PER FT SLOPE UNLESS OTHERWISE NOTED AND A RAINFALL RATE OF 4.5" PER HR.

FOR MINIMUM PLUMBING FIXTURES REQUIRED BASED ON OCCUPANT LOAD CALCULATED PER FBC 104, PLEASE REFER TO ARCHITECT'S PLUMBING CODE COMPLIANCE CALCULATIONS ON SHEET A-002

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This item has been digitally signed and sealed by Christopher S. Ashburn, PE, on 9/21/26

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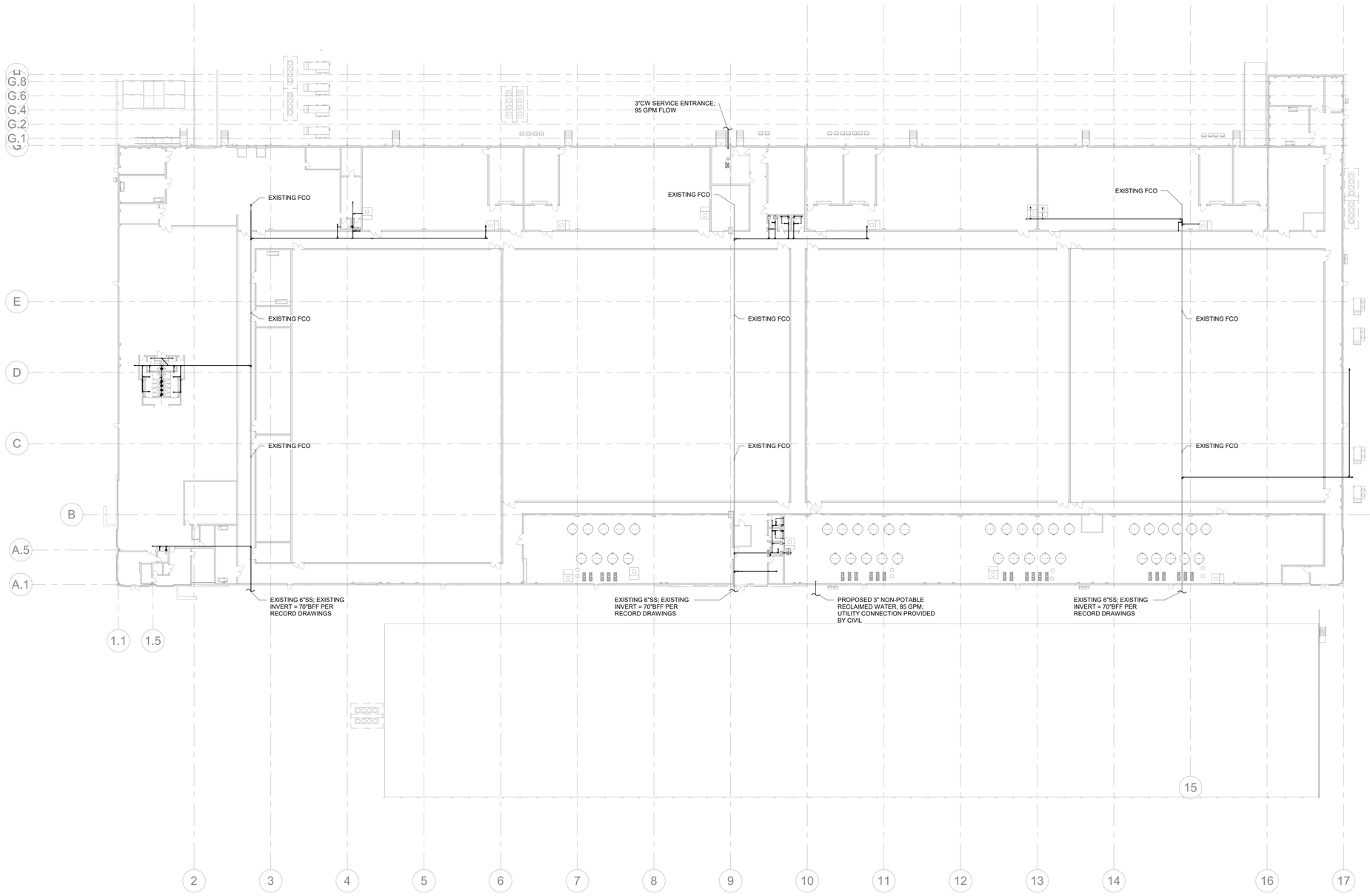
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SHEET TITLE

PLUMBING LEGENDS AND NOTES

SHEET NUMBER

BLDG1-PI001



1 BLDG 1 FLOOR PLAN - UNDERGROUND OVERALL - FIT-UP

SCALE: 1/32" = 1'-0"

N

TRUE NORTH

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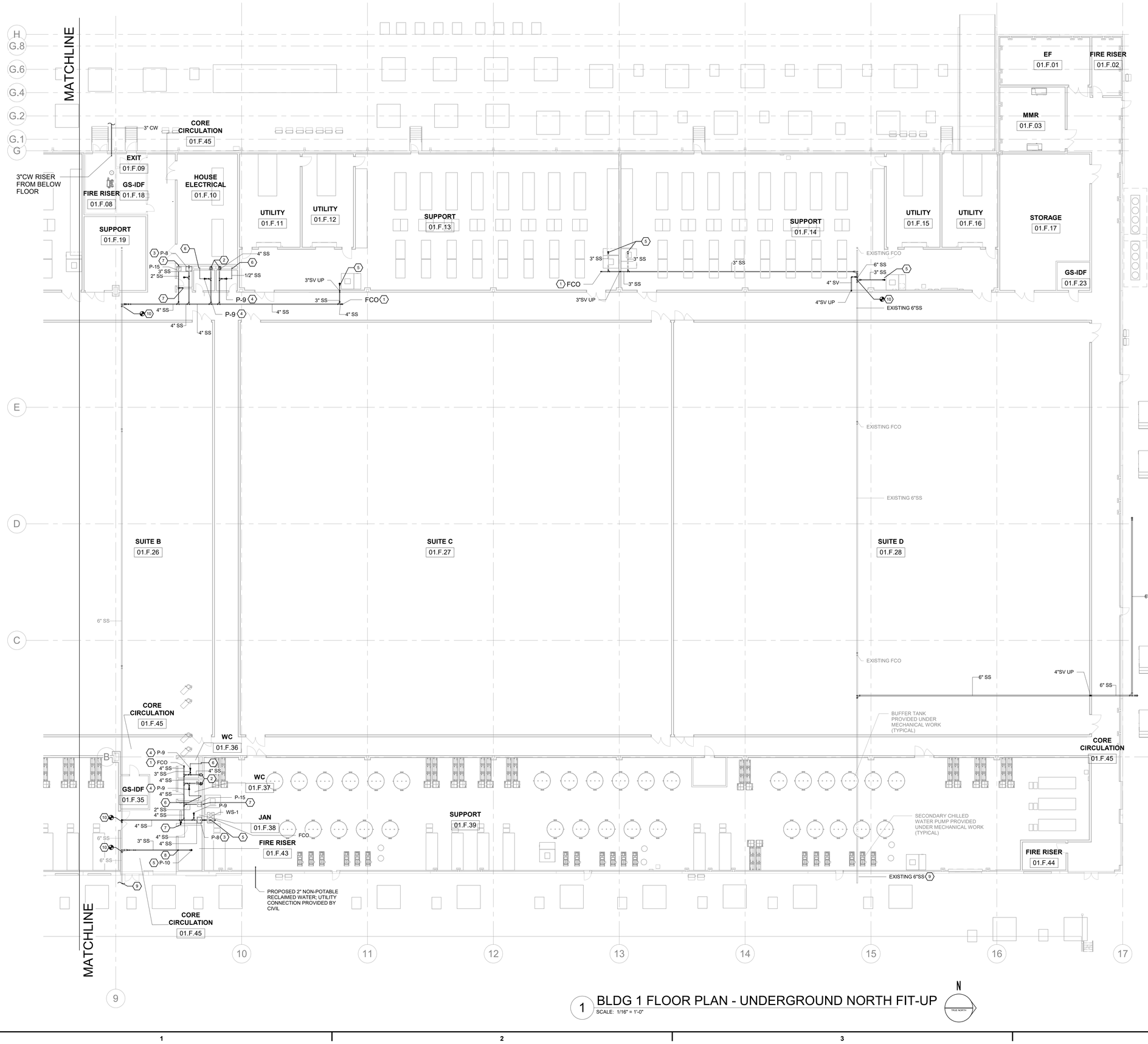
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SHEET TITLE

BLDG 1 FLOOR PLAN - UNDERGROUND OVERALL FIT-UP

SHEET NUMBER

BLDG1-PL100-A



1 BLDG 1 FLOOR PLAN - UNDERGROUND NORTH FIT-UP
SCALE: 1/16" = 1'-0"

N
TRUE NORTH

UNDERGROUND KEYED NOTES ⬡ : (SHEET PL101 ONLY)

1. INSTALL FLOOR CLEANOUT EQUAL TO LINE SIZE; MAINTAIN MINIMUM 18" DIAMETER CLEAR SPACE AROUND CLEANOUT FOR UNOBSTRUCTED ACCESS.
2. 4"SS DROP THROUGH SLAB.
3. 3"SS CONNECTION TO FIXTURE P-8 W/ LINE-SIZE P-TRAP.
4. 3"SS AND 1/2" TRAP PRIMER CONNECTION TO FIXTURE P-9 W/ LINE-SIZE P-TRAP.
5. 3"SS CONNECTION TO FIXTURE P-10 W/ LINE-SIZE P-TRAP; PROVIDE LINE-SIZE ZURN #Z1072 Z-SHIELD BARRIER TRAP SEAL DEVICE; INSTALL PER MANUFACTURER'S INSTRUCTIONS.
6. 1/2" SOFT COPPER UNDERFLOOR FOR CONNECTION TO FLOOR DRAIN TRAP PRIMER INLET.
7. 2"SS DROP THROUGH SLAB.
8. 2"SV UP THROUGH SLAB.
9. PER RECORD DRAWING, EXISTING 6" SANITARY SEWER AT 70" BELOW FINISH FLOOR.
10. POINT OF CONNECTION; SITE VERIFY EXISTING SANITARY SEWER PIPING FOR CONNECTION.

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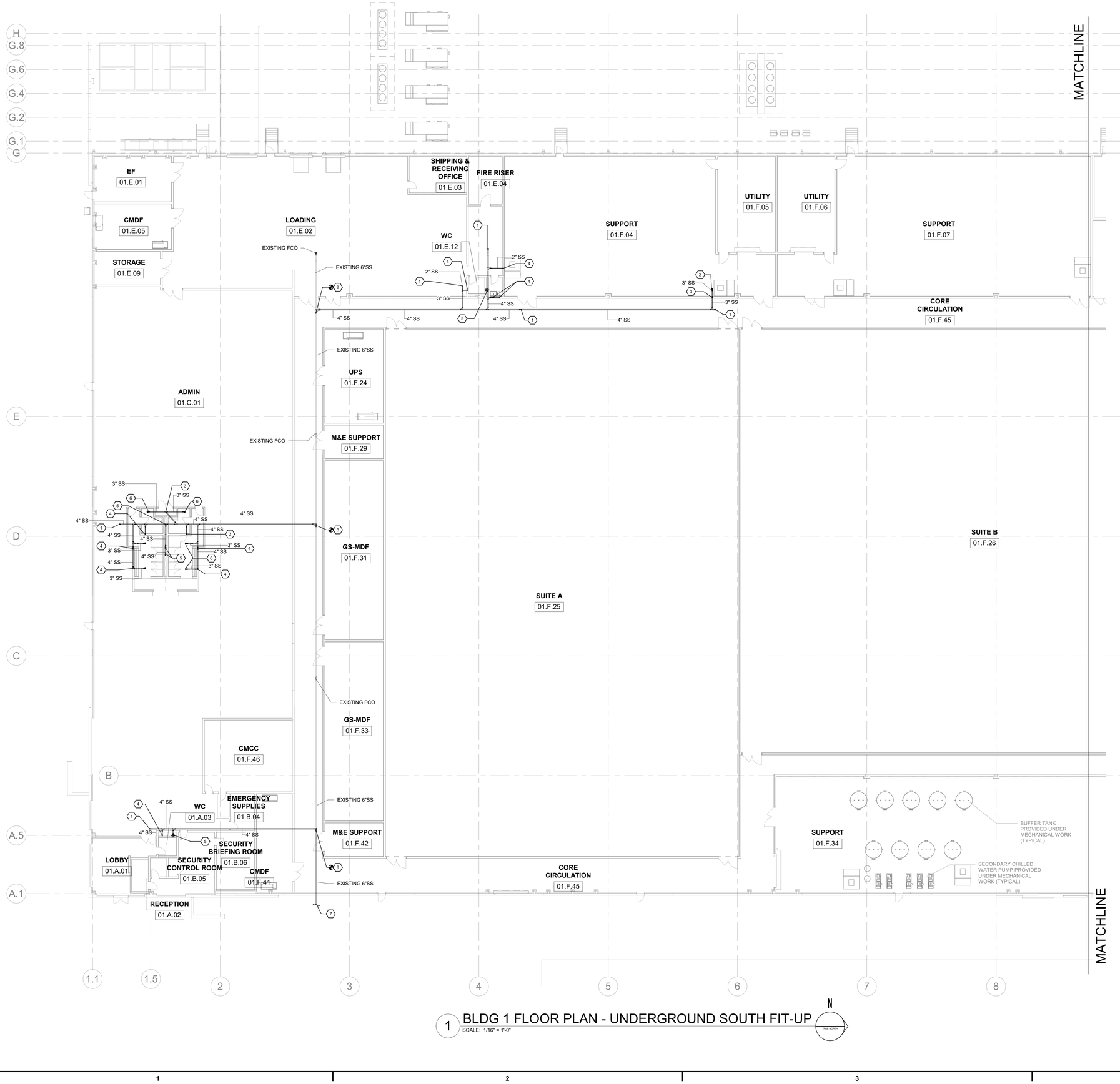
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SHEET TITLE

BLDG 1 FLOOR PLAN - UNDERGROUND NORTH FIT-UP

SHEET NUMBER
BLDG1-PL101-A



1 BLDG 1 FLOOR PLAN - UNDERGROUND SOUTH FIT-UP
SCALE: 1/16" = 1'-0"

N
TRUE NORTH

UNDERGROUND KEYED NOTES ⬡ : (SHEET PL102 ONLY)

1. INSTALL FLOOR CLEANOUT EQUAL TO LINE SIZE; MAINTAIN MINIMUM 18" DIAMETER CLEAR SPACE AROUND CLEANOUT FOR UNOBSTRUCTED ACCESS.
2. 3"SS CONNECTION TO FIXTURE P-10 W/ LINE-SIZE P-TRAP; PROVIDE LINE-SIZE ZURN #Z1072 Z-SHIELD BARRIER TRAP SEAL DEVICE; INSTALL PER MANUFACTURER'S INSTRUCTIONS.
3. 3" SANITARY VENT UP
4. 2"SS DROP THROUGH SLAB.
5. 4"SS DROP THROUGH SLAB.
6. 3"SS CONNECTION TO FIXTURE P-9 W/ LINE-SIZE P-TRAP; PROVIDE LINE-SIZE ZURN #Z1072 Z-SHIELD BARRIER TRAP SEAL DEVICE; INSTALL PER MANUFACTURER'S INSTRUCTIONS.
7. PER RECORD DRAWING, EXISTING 6" SANITARY SEWER AT 70" BELOW FINISH FLOOR.
8. POINT OF CONNECTION; SITE VERIFY EXISTING SANITARY SEWER PIPING FOR CONNECTION. PROVIDE SAWCUTTING AND TRENCHING F

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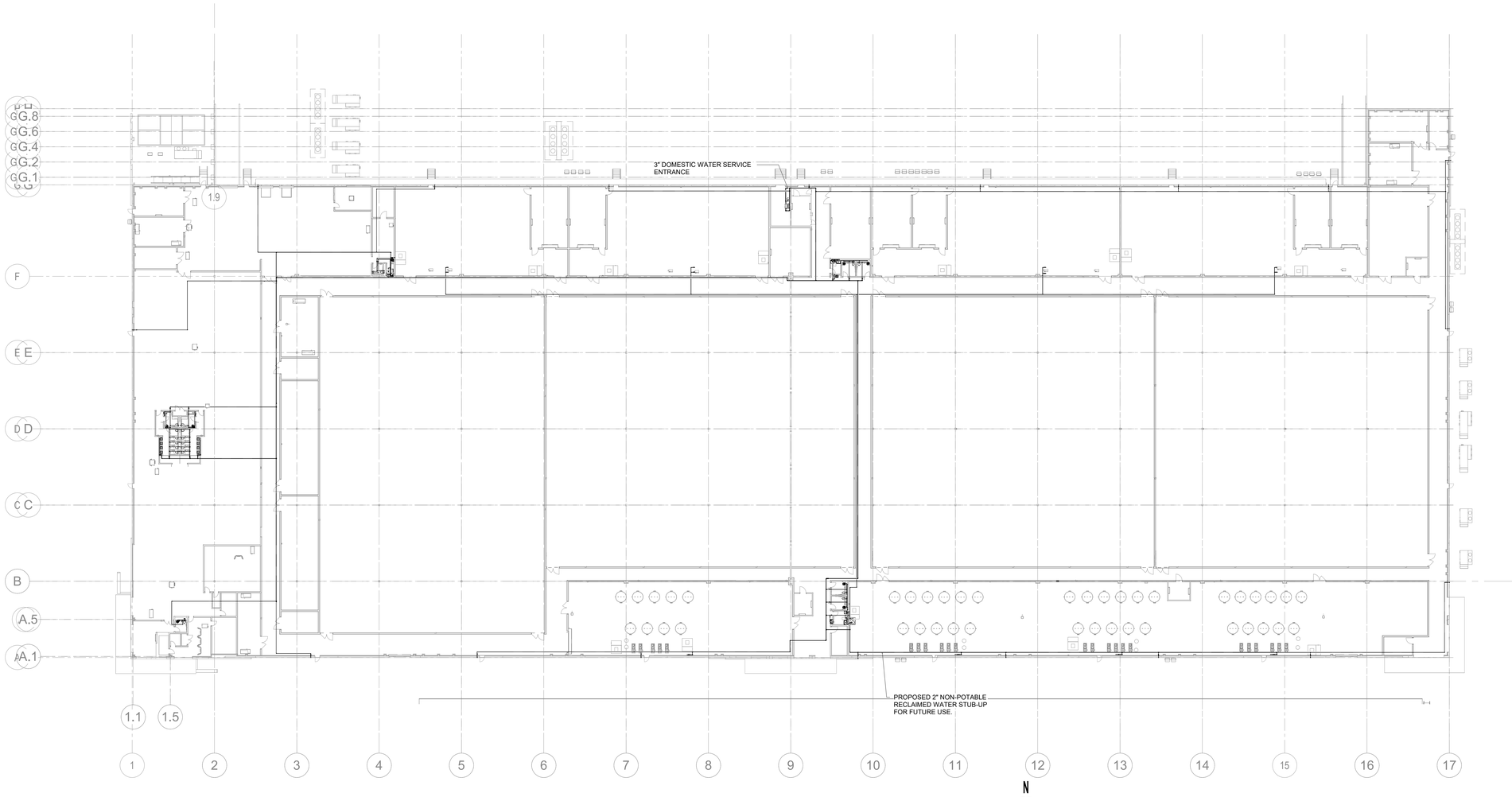
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SHEET TITLE

BLDG 1 FLOOR PLAN - UNDERGROUND SOUTH FIT-UP

SHEET NUMBER
BLDG1-PL102-A



1 BLDG 1 FLOOR PLAN - PLUMBING OVERALL FIT-UP
SCALE: 1/32" = 1'-0"

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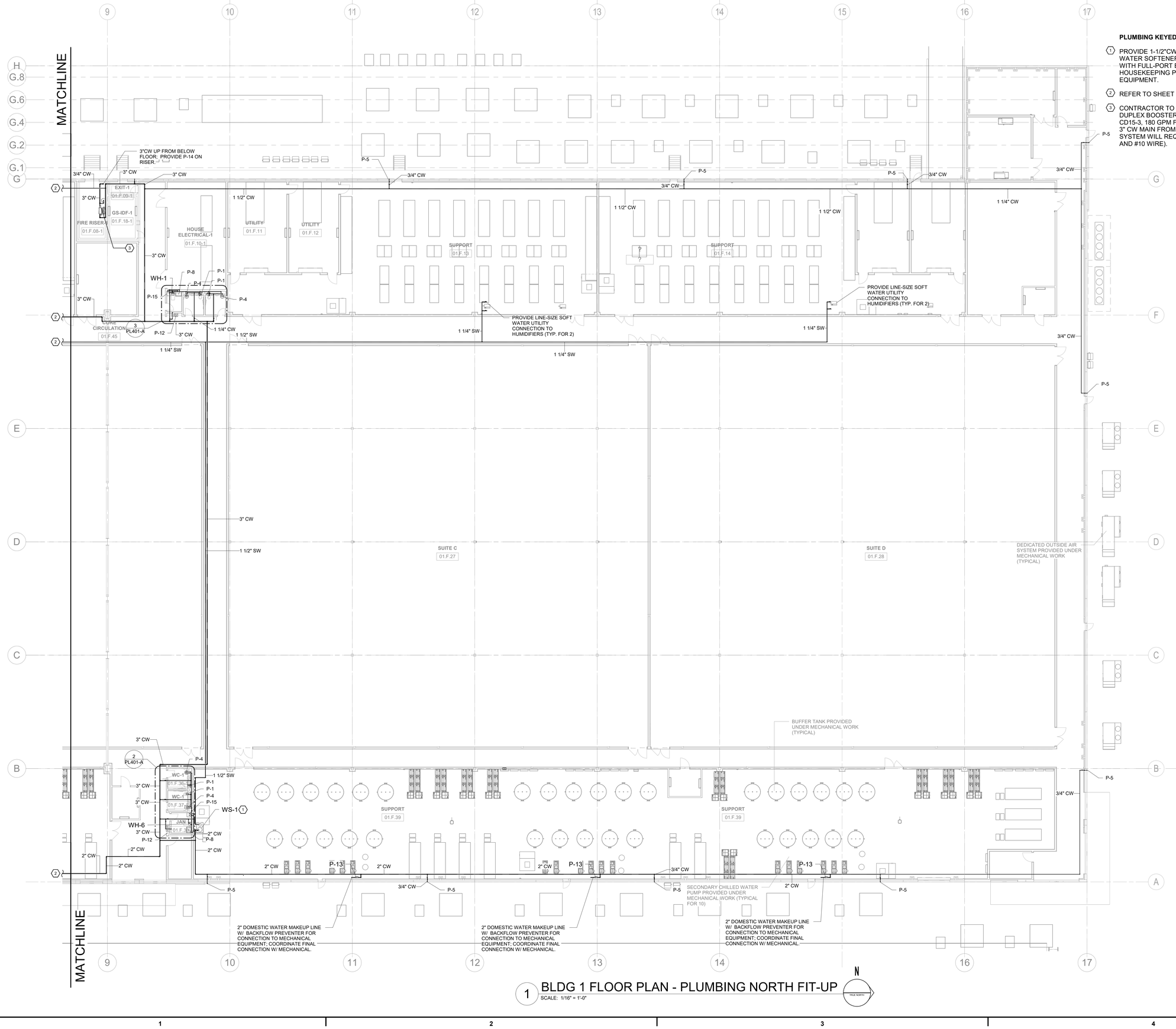
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SHEET TITLE

BLDG 1 FLOOR PLAN - PLUMBING OVERALL FIT-UP

SHEET NUMBER
BLDG1-PL110-A



1 BLDG 1 FLOOR PLAN - PLUMBING NORTH FIT-UP
SCALE: 1/16" = 1'-0"

PLUMBING KEYED NOTES ⬡ : (SHEET PL111 ONLY)

1. PROVIDE 1-1/2"CW AND 1-1/2"SW UTILITY CONNECTIONS TO WATER SOFTENER WS-1; PROVIDE BY-PASS MIXING VALVE WITH FULL-PORT BALL VALVES AND 4" TALL CONCRETE HOUSEKEEPING PAD W/ CHAMFERED EDGES FOR EQUIPMENT.
2. REFER TO SHEET PL112 FOR CONTINUATION.
3. CONTRACTOR TO PROVIDE A SINGLE 3" WATER SERVICE TO DUPLEX BOOSTER PUMP SYSTEM (TIGERFLOW MODEL CD15-3, 180 GPM FLOW, 45 PSI BOOST, 460V/3PH). PROVIDE 3" CW MAIN FROM BOOSTER PUMP. BOOSTER PUMP SYSTEM WILL REQUIRE ELECTRICAL FEED W/ 30A BREAKER AND #10 WIRE).

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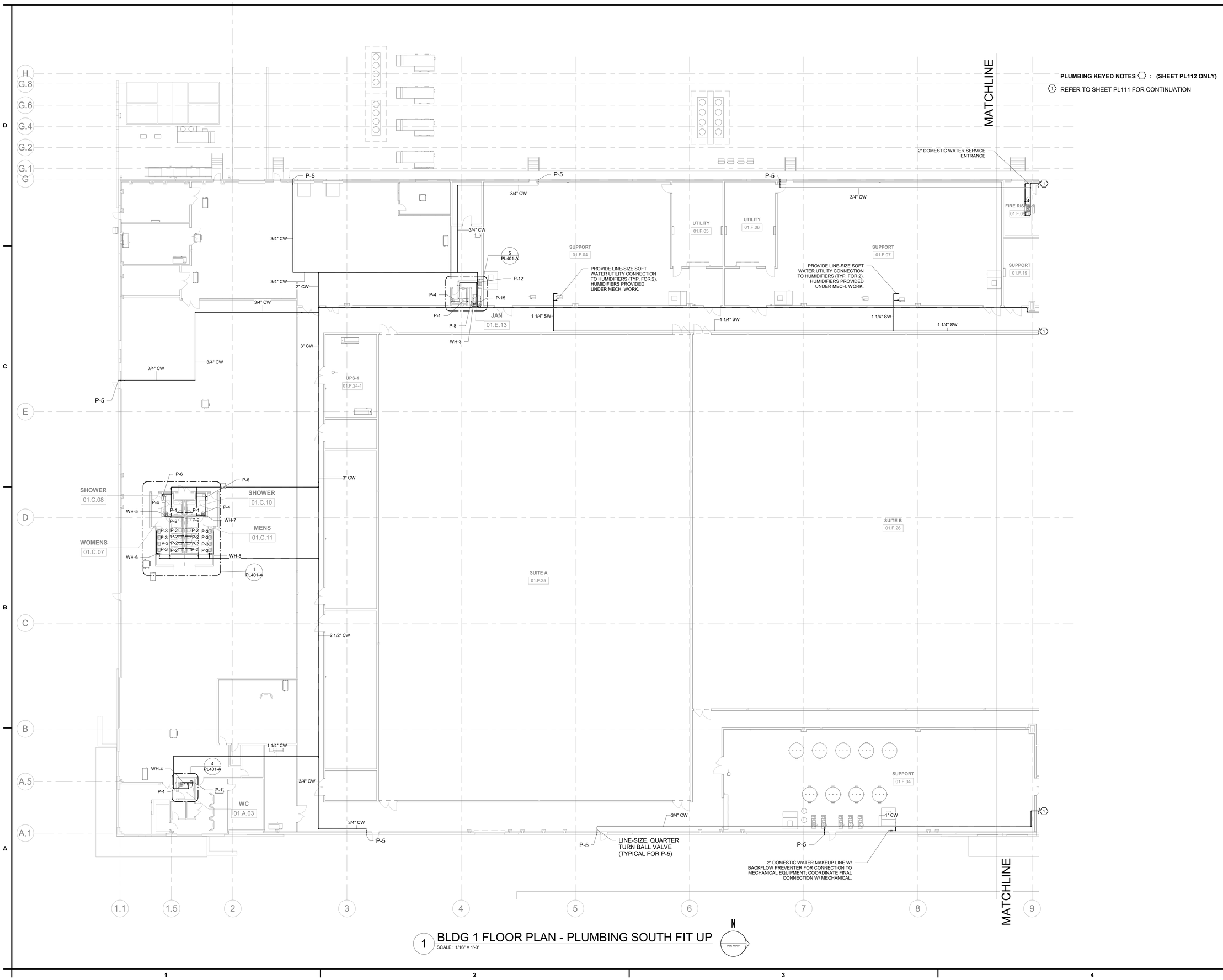
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SHEET TITLE

BLDG 1 FLOOR PLAN - PLUMBING NORTH FIT-UP

SHEET NUMBER
BLDG1-PL111-A



1 BLDG 1 FLOOR PLAN - PLUMBING SOUTH FIT UP
SCALE: 1/16" = 1'-0"

N
TRUE NORTH

Salas O'Brien
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FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

PROFESSIONAL SEAL

CHRISTOPHER S. ASHWORTH LICENSE No. 70102 STATE OF FLORIDA PROFESSIONAL ENGINEER

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PROJECT SUNSHINE

BUILDING 1

810 PACE RD.
AUBURNDALE, FL 33823

ISSUE DATE	DESCRIPTION
09/21/2026	REVISED FIT-UP IFP

Δ	DESCRIPTION	DATE

ISSUE:

PROJ NO
2540-01309

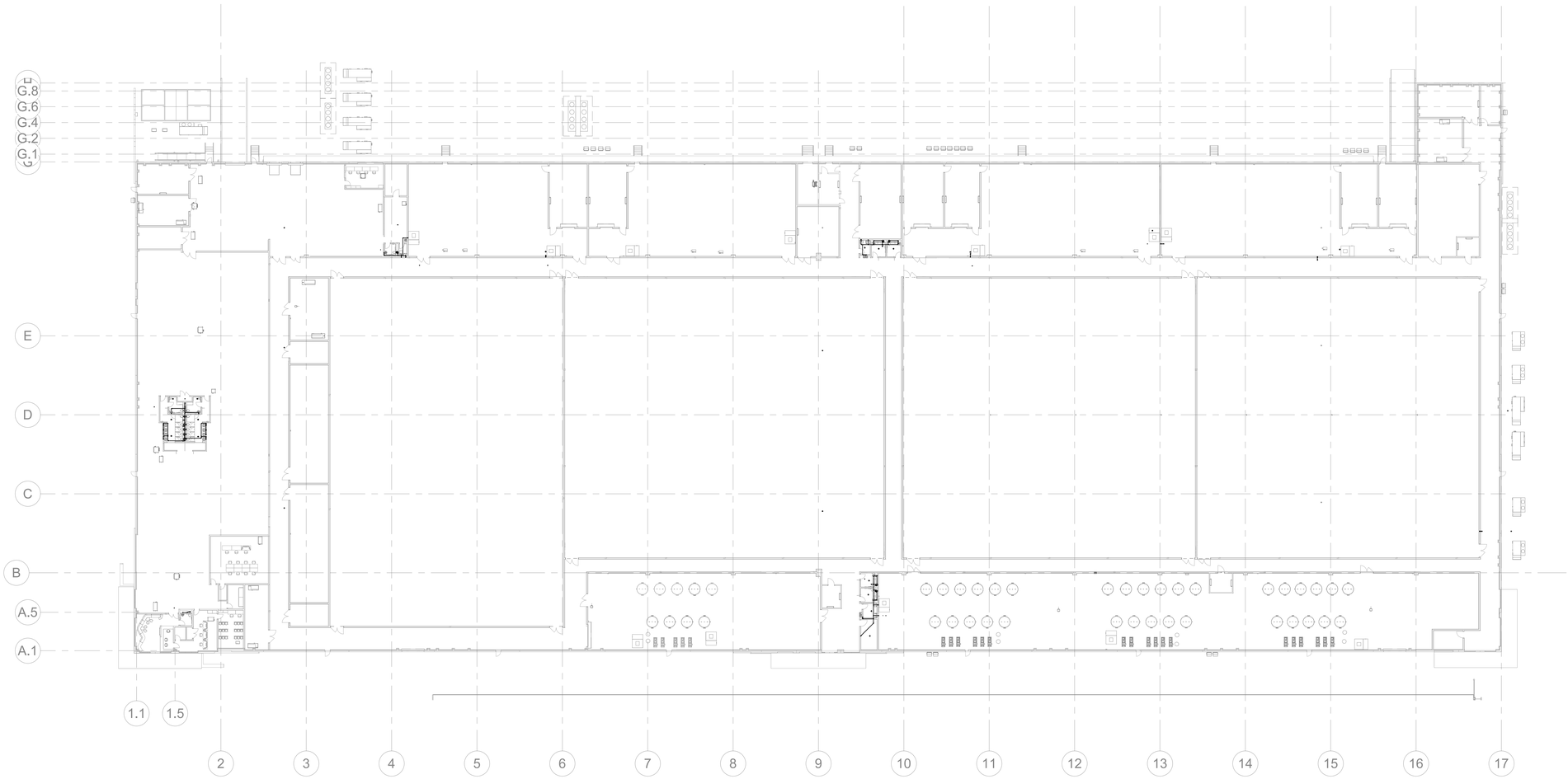
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SHEET TITLE

BLDG 1 FLOOR PLAN - PLUMBING SOUTH FIT-UP

SHEET NUMBER
BLDG1-PL112-A



1 BLDG 1 FLOOR PLAN - SANITARY OVERALL FIT-UP
SCALE: 1/32" = 1'-0"

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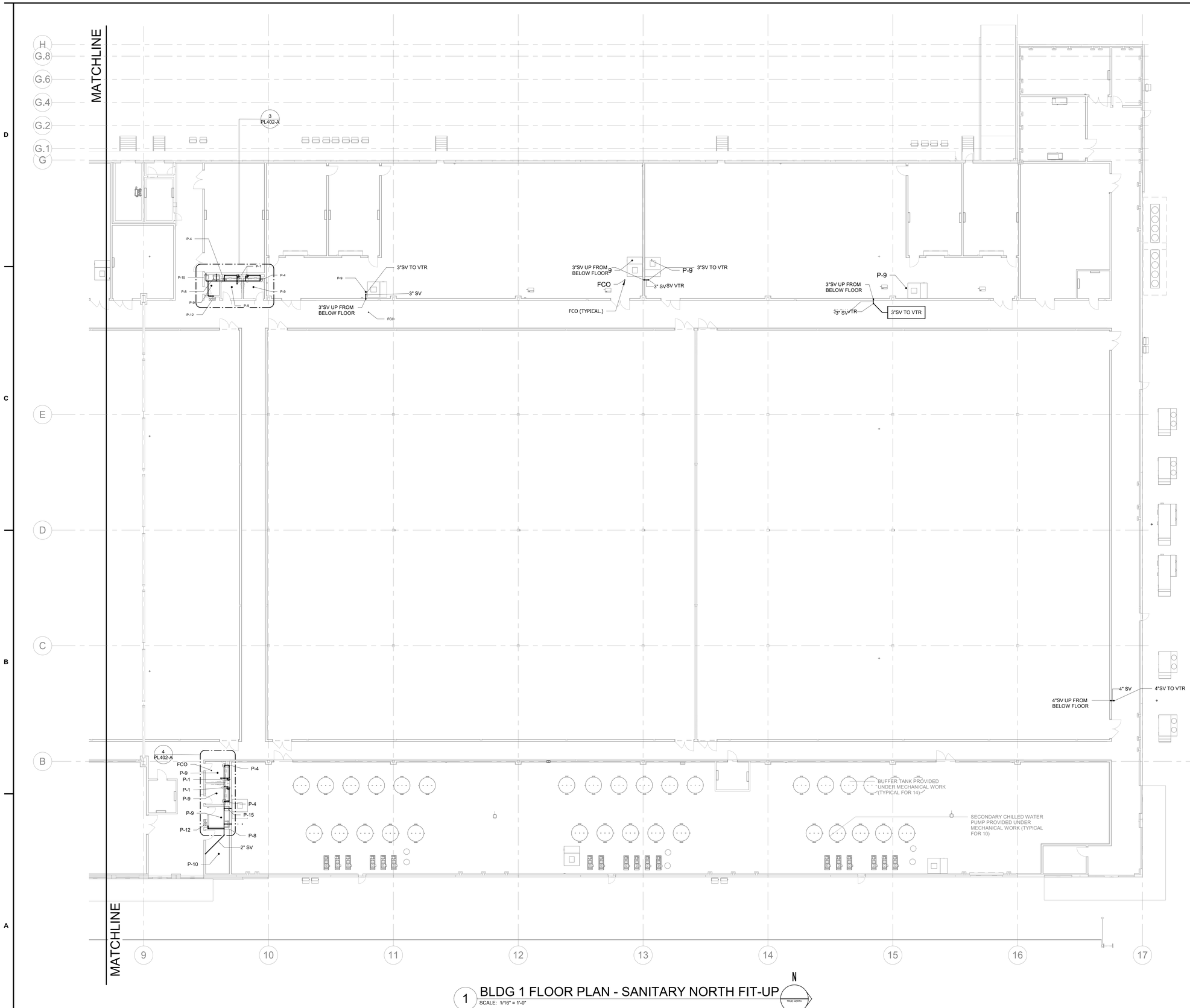
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SHEET TITLE

BLDG 1 FLOOR PLAN - SANITARY OVERALL FIT-UP

SHEET NUMBER
BLDG1-PL120-A



1 BLDG 1 FLOOR PLAN - SANITARY NORTH FIT-UP
SCALE: 1/16" = 1'-0"

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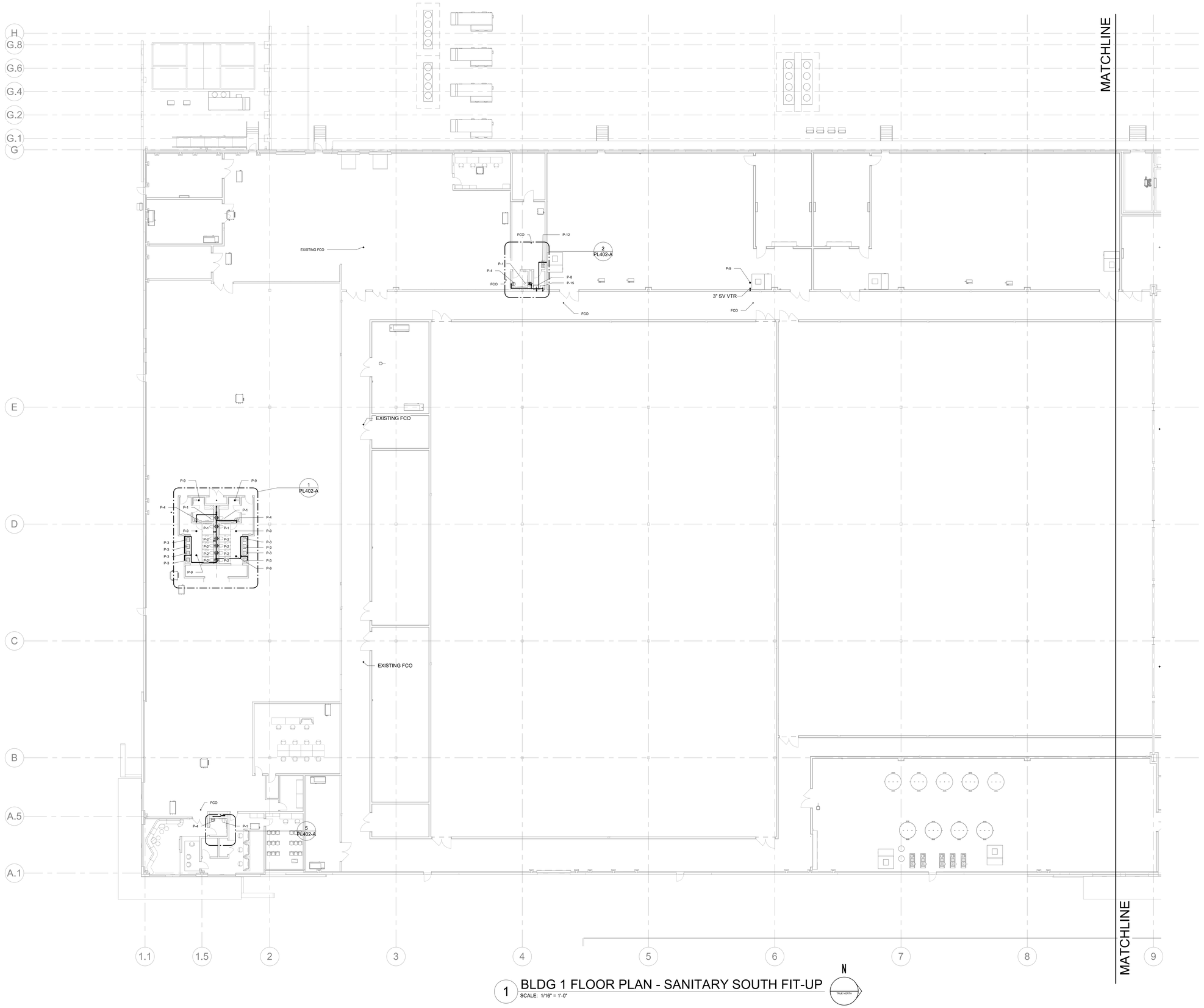
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SHEET TITLE

BLDG 1 FLOOR PLAN - SANITARY NORTH FIT-UP

SHEET NUMBER
BLDG1-PL121-A



1 BLDG 1 FLOOR PLAN - SANITARY SOUTH FIT-UP

SCALE: 1/16" = 1'-0"

N

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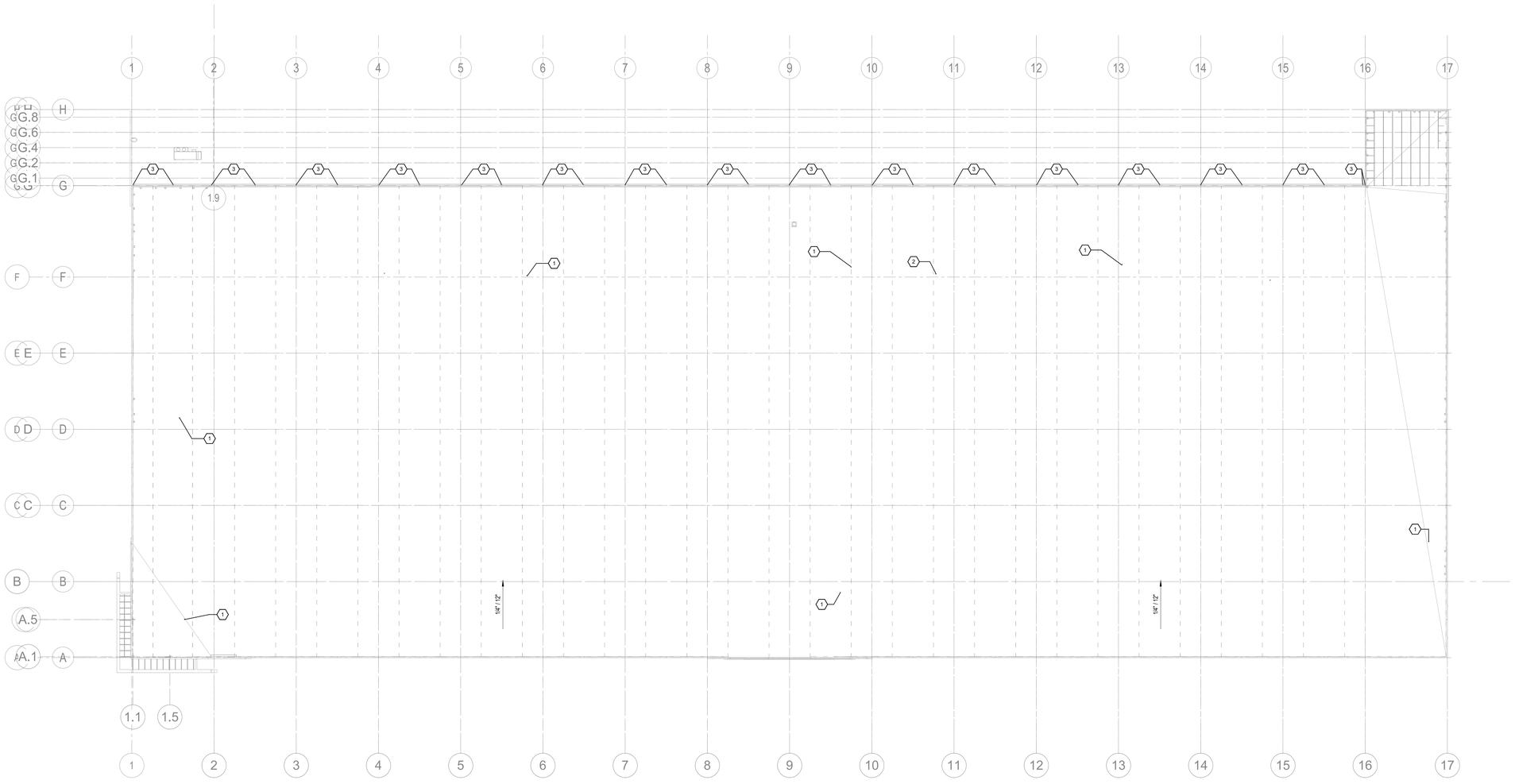
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SHEET TITLE

BLDG 1 FLOOR PLAN - SANITARY SOUTH FIT-UP

SHEET NUMBER

BLDG1-PL122-A



1 BLDG 1 ROOF PLAN - PLUMBING OVERALL FIT-UP
SCALE: 1/32" = 1'-0"

N
TRUE NORTH

PLUMBING KEYED NOTES ⬡ : (SHEET BLDG1-PL130 ONLY)

1. 3" SANITARY VENT THRU ROOF; SEE DETAIL 5/SHEET PL502 FOR VTR INSTALLATION DETAIL.
2. 2" SANITARY VENT THRU ROOF; SEE DETAIL 5/SHEET PL502 FOR VTR INSTALLATION DETAIL.
3. EXISTING GUTTER, OVERFLOW, AND DOWNSPOUTS PROVIDE PRIMARY AND SECONDARY ROOF DRAINAGE; SEE ARCHITECTURAL PLANS, SHEET AE106, FOR MORE INFORMATION.
4. 4" SANITARY VENT THRU ROOF; SEE DETAIL 5/SHEET PL502 FOR VTR INSTALLATION DETAIL.

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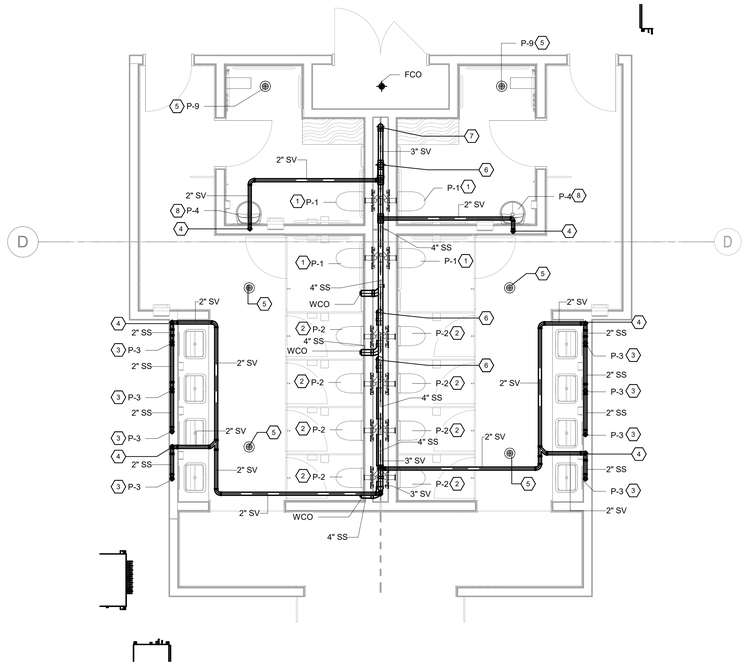
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SHEET TITLE

BLDG 1 ROOF PLAN - PLUMBING OVERALL FIT-UP

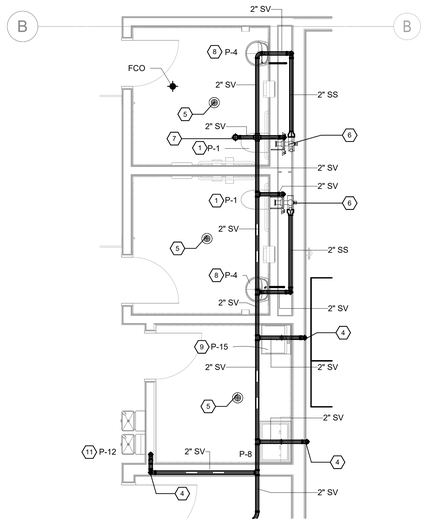
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BLDG1-PL130-A



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1 BLDG 1 ENLARGED FLOOR PLAN - SANITARY RMS 102, 108, 121, 122, & 123

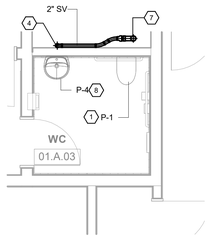
SCALE: 1/4" = 1'-0"



N

4 BLDG 1 ENLARGED FLOOR PLAN - SANITARY RMS 158 & 159

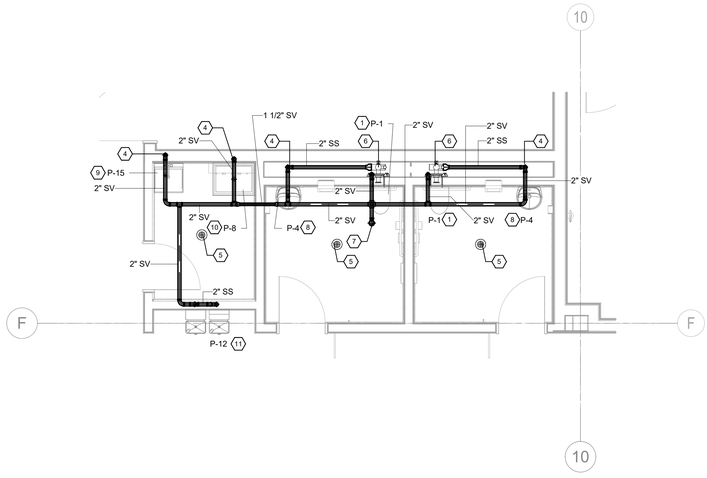
SCALE: 1/4" = 1'-0"



N

5 BLDG 1 FLOOR PLAN - SANITARY WC 01.A.03

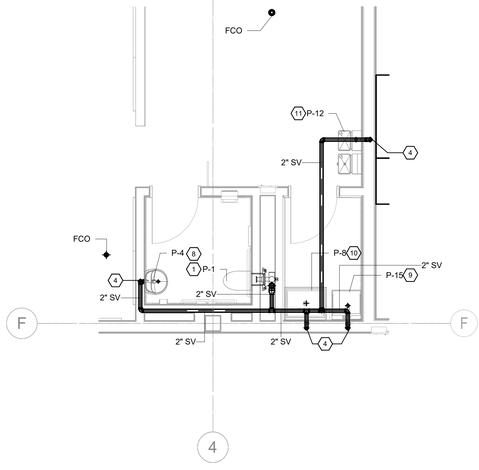
SCALE: 1/4" = 1'-0"



N

3 BLDG 1 ENLARGED FLOOR PLAN - SANITARY RMS 141, 142, 143, 144, 145, & 147

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



N

2 BLDG 1 ENLARGED FLOOR PLAN - SANITARY RMS 135, 136, & 137

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

PLUMBING KEYED NOTES ⬡ : (SHEET BLDG1-PL402-A ONLY)

1. PROVIDE 4"SS WALL OUTLET FOR FIXTURE P-1.
2. PROVIDE 4"SS WALL OUTLET FOR FIXTURE P-2.
3. PROVIDE 1-1/2"SS UTILITY CONNECTION TO 2"SS HEADER IN WALL FOR FIXTURE P-3.
4. 2"SS DROP TO UNDERFLOOR AND 2"SV UP IN WALL.
5. PROVIDE PROSET SYSTEMS TRAP GUARD FOR FLOOR DRAIN TO PREVENT SEWER GASSES FROM ENTERING SPACE.
6. 4"SS DROP TO UNDERFLOOR.
7. 3"SV UP TO VENT THRU ROOF.
8. PROVIDE 1-1/2"SS UTILITY CONNECTION FOR FIXTURE P-4.
9. PROVIDE 1-1/2"SS UTILITY CONNECTION FOR FIXTURE P-15.
10. PROVIDE 2"SS UTILITY CONNECTION TO FIXTURE P-8.
11. PROVIDE 1-1/2"SS UTILITY CONNECTION FOR FIXTURE P-12.

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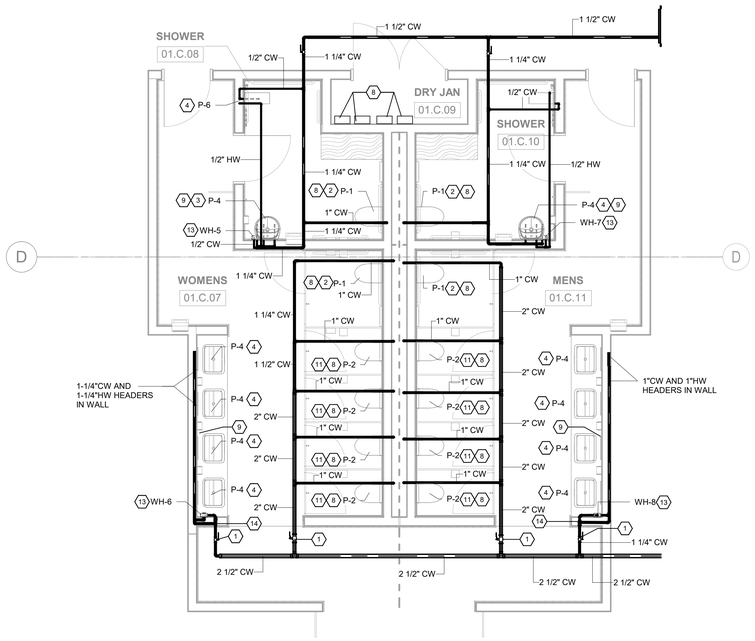
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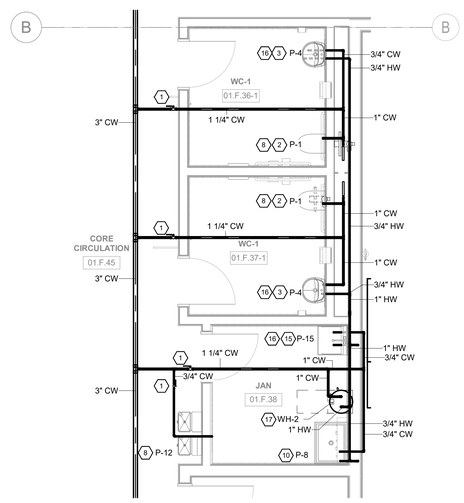
BLDG 1 ENLARGED FLOOR PLANS - SANITARY FIT-UP

SHEET NUMBER
BLDG1-PL402-A



2 BLDG 1 ENLARGED FLOOR PLAN - PLBG RMS 158 & 159 FIT-UP

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

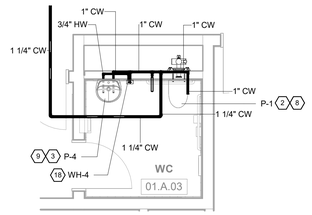


PLUMBING KEYED NOTES ⬡ : (SHEET BLDG1-PL401 ONLY)

1. PROVIDE LINE-SIZE, FULL PORT SERVICE BALL VALVES ACCESSIBLE HIGH ABOVE.
2. PROVIDE 1"CW CONNECTION TO P-1 FIXTURE.
3. PROVIDE 1/2"CW AND 1/2"HW TO P-4 FIXTURE.
4. PROVIDE 1/2"CW AND 1/2"HW TO P-6 FIXTURE.
5. INSTALL WATER HAMMER ARRESTOR PER DETAIL 4/SHEET PL501.
6. PROVIDE 1/2"CW TO P-12 FIXTURE.
7. PROVIDE 1-1/2"CW INLET AND 1-1/2"HW OUTLET UTILITY CONNECTIONS TO WH-1.
8. PROVIDE ONE (1) SLOAN EL-154 TRANSFORMER FOR EACH TOILET ROOM AND TURN OVER TO ELECTRICAL CONTRACTOR. ARRANGE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION OF TRANSFORMERS UP HIGH IN JANITOR'S CLOSET OR IN A READILY ACCESSIBLE LOCATION. ALSO, ARRANGE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION OF JUNCTION BOXES AND 24 VOLT WIRING IN CONDUIT TO FLUSH VALVE SENSOR/SOLENOID LOCATIONS.
9. PROVIDE ONE (1) SLOAN SFP-35-A PLUG-IN GANG ADAPTER FOR EACH TOILET ROOM SERVING UP TO 6 FAUCETS AND TURN OVER TO ELECTRICAL CONTRACTOR. ARRANGE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION OF GFCI OUTLET BELOW COUNTER TIGHT BELOW COUNTER IN A READILY ACCESSIBLE LOCATION.
10. PROVIDE 1/2"CW AND 1/2"HW TO P-8 FIXTURE.
11. PROVIDE 1"CW CONNECTION TO P-2 FIXTURE.
12. PROVIDE 1/2"CW AND 1/2"HW TO P-3 FIXTURE.
13. PROVIDE 3/4"CW INLET AND 3/4"HW OUTLET UTILITY CONNECTIONS TO WH-5,6, 7, & 8; PROVIDE SHUT-OFF VALVES ON INLETS AND OUTLETS; ENSURE VALVES AND UNIT ARE INSTALLEDTIGHT WITHIN UNDER-COUNTER MILLWORK/SINK.
14. 1" DROP TO CW HEADER IN WALL WITH 3/4"TEE TO WATER HEATER.
15. PROVIDE 1/2"CW AND 1/2"HW TO P-15 FIXTURE.
16. PROVIDE TMV-1 ASSE 1070 THERMOSTATIC MIXING VALVE FOR LAVATORY FAUCET; MOUNT ON WALL BELOW DECK OF SINK.
17. PROVIDE 3/4"CW INLET AND 3/4"HW OUTLET UTILITY CONNECTIONS TO WATER HEATER; PROVIDE SHUT-OFF VALVES ON INLETS AND OUTLETS.
18. PROVIDE 1/2"CW SUPPLY AND 1-1/2"HW OUTLET UTILITY CONNECTIONS TO INSTANTANEOUS WATER HEATER W/ INTEGRAL ASSE 1070 MIXING VALVE; INSTALL PER MANUFACTURER'S INSTRUCTIONS.

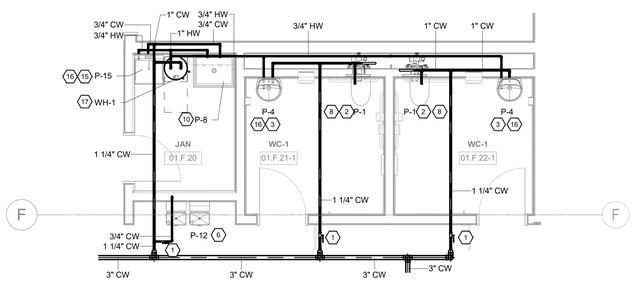
1 BLDG 1 ENLARGED FLOOR PLAN - PLBG RMS 102, 108, 121, 122, & 123 FIT-UP

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



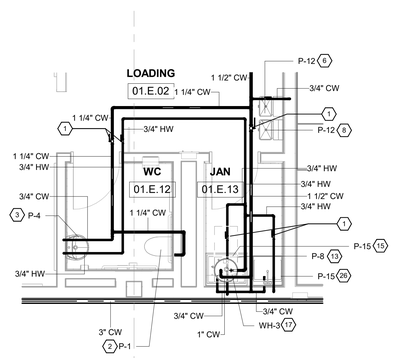
4 BLDG 1 FLOOR PLAN - PLUMBING RM 01.A.03 FIT-UP

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



3 BLDG 1 ENLARGED FLOOR PLAN - PLBG RMS 141, 142, 143, 144, 145, & 147 FIT-UP

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



5 BLDG 1 FLOOR PLAN - PLUMBING SOUTH FIT UP - 01.E.02, 01.E.12, 01.E.13

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

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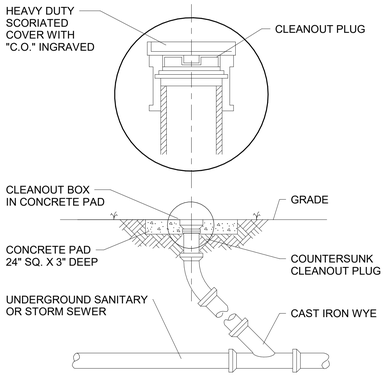
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BLDG 1 ENLARGED FLOOR PLANS - PLUMBING FIT-UP

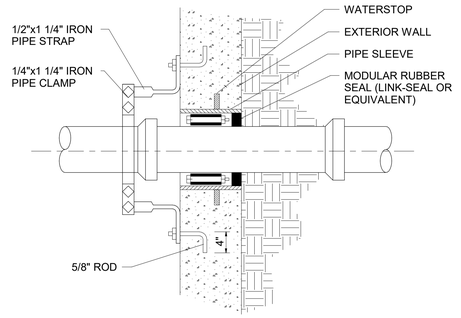
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BLDG1-PL401-A



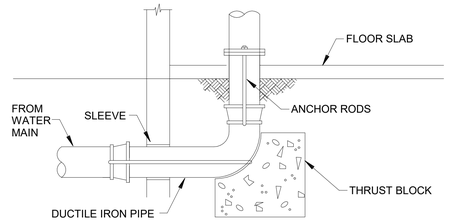
EXTERIOR CLEANOUT DETAIL
No Scale

1



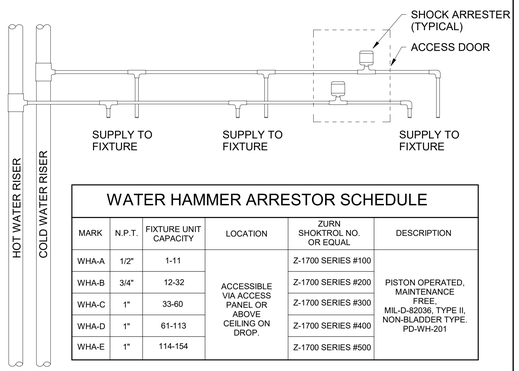
PIPE PENETRATION AT FOUNDATION WALL
No Scale

2



LEAD IN DETAIL
No Scale

3



WATER HAMMER ARRESTOR SCHEDULE

MARK	N.P.T.	FIXTURE UNIT CAPACITY	LOCATION	ZURN SHOKTROL NO. OR EQUAL	DESCRIPTION
WHA-A	1/2"	1-11	ACCESSIBLE VIA ACCESS PANEL OR ABOVE CEILING ON DROP.	Z-1700 SERIES #100	PISTON OPERATED, MAINTENANCE FREE. MIL-D-82036, TYPE II, NON-BLADDER TYPE. PD-WH-201
WHA-B	3/4"	12-32		Z-1700 SERIES #200	
WHA-C	1"	33-60		Z-1700 SERIES #300	
WHA-D	1"	61-113		Z-1700 SERIES #400	
WHA-E	1"	114-154		Z-1700 SERIES #500	

NOTES:

1. ARRESTERS SHALL BE ACCESSIBLE FOR REPLACEMENT BY WAY OF ACCESS DOOR.
2. APPROVED ARRESTERS SHALL BE INSTALLED ON WATER DISTRIBUTION SYSTEMS IN WHICH QUICK CLOSING VALVES ARE INSTALLED. MULTIPLE ARRESTER INSTALLATIONS SHALL BE AS PER P.D.I. STANDARDS.

SHOCK ARRESTER INSTALLATION
No Scale

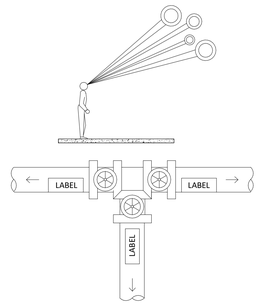
4

PIPING LABELS

ABBV.	LABEL TEXT	LABEL COLOR/ TEXT COLOR
CD	CONDENSATE DRAIN	GREEN/WHITE
DW	DOMESTIC COLD WATER	GREEN/WHITE
DHW	DOMESTIC HOT WATER	YELLOW/BLACK
DHWR	DOMESTIC HOT WATER RETURN	YELLOW/BLACK
SS	SANITARY SEWER	GREEN/WHITE
V	SANITARY VENT	GREEN/WHITE

VISIBILITY OF PIPE MARKINGS

OUTSIDE DIAMETER OF PIPE OR COVERING	SIZE OF LETTERS
3/4" TO 1-1/4"	1/2"
1-1/2" TO 2"	3/4"
2-1/2" TO 6"	1-1/4"
8" TO 10"	2-1/2"
OVER 10"	3-1/2"



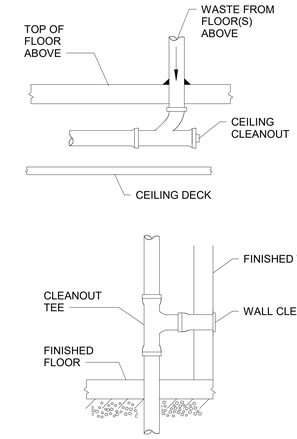
GENERAL NOTES:

1. PIPES SHALL BE LABELED ACCORDING TO THE TABLE ON THIS DETAIL.
2. LABELS SHOULD BE APPLIED CLOSE TO VALVES AND ADJACENT TO CHANGES IN DIRECTION, BRANCHES, AND WHERE PIPES PASS THROUGH WALLS OR FLOORS, AND AS FREQUENTLY AS NEEDED ALONG STRAIGHT RUNS TO PROVIDE CLEAR POSITIVE IDENTIFICATION.
3. LABELS SHALL HAVE THE FOLLOWING MINIMUM INFORMATION: FLUID BEING CONVEYED, ACCORDING TO TABLE AT LEFT, AND DIRECTION OF FLOW.
4. PIPE MARKERS SHALL BE EITHER
   A) PLASTIC FACTORY FABRICATED, FLEXIBLE, SEMI-RIGID PLASTIC, PREFORMED TO FIT AROUND PIPE OR PIPE COVERING, WITH PRINTED MARKINGS, OR

   B) FLEXIBLE, ADHESIVE BACKED VINYL WITH PERINTED MARKINGS
5. PIPE MARKING SHOULD BE HIGHLY VISIBLE AND IN THE LINE OF VISION ACCORDING TO THE FIGURES AT LEFT.
6. THE RECOMMENDED SIZE OF LETTERS SHALL BE LABELED ACCORDING TO THE TABLE ON THIS DETAIL.

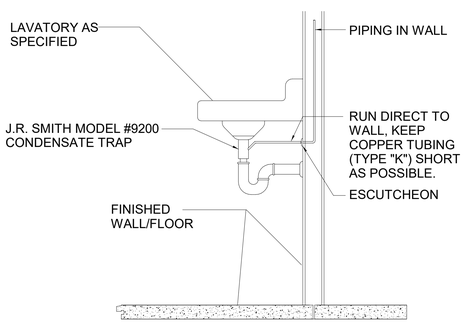
PIPE IDENTIFICATION DETAIL
No Scale

5



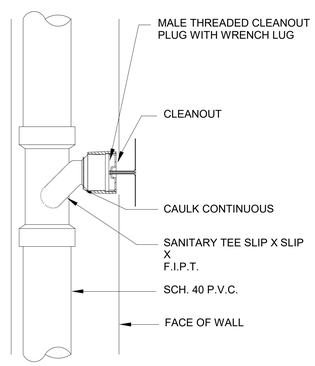
BASE OF RISER CLEANOUT DETAIL
No Scale

6



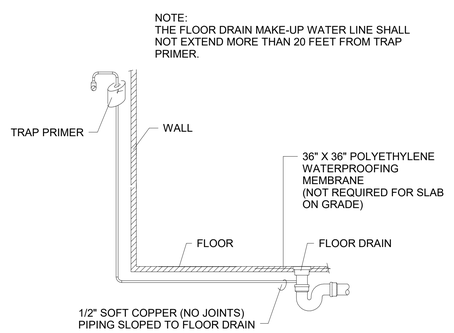
CONDENSATE DRAIN TAILPIECE DETAIL
No Scale

7



TYPICAL WALL CLEANOUT DETAIL
No Scale

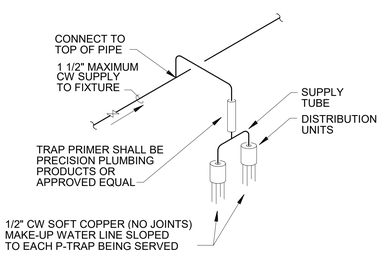
8



FLOOR DRAIN TRAP PRIMER DETAIL
No Scale

9

PRIMER MODEL	NO. OF DRAINS	SUPPLY TUBE	DISTRIBUTION UNIT
P2-500	1	N/A	N/A
P2-500	2	N/A	DU-2
P1-500	3	N/A	DU-3
P1-500	4	N/A	DU-4
P1-500	5	YS-8	DU-2 & DU-3
P1-500	6	YS-8	DU-3 & DU-3
P1-500	7	YS-8	DU-3 & DU-4
P1-500	8	YS-8	DU-4 & DU-4



NOTE:
THE PRIMER ASSEMBLY SHALL BE INSTALLED LEVEL AND IN AN ACCESSIBLE LOCATION
THE PRIMER ASSEMBLY SHALL BE INSTALLED A MINIMUM OF ONE FOOT ABOVE FINISHED FLOOR FOR EVERY 20 FEET OF FLOOR DRAIN TRAP MAKE-UP WATER LINE.

TRAP PRIMER DISTRIBUTION DETAIL
No Scale

9

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Nashville
2950 Kraft Drive
Nashville, TN 37204
FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

PROFESSIONAL SEAL

CHRISTOPHER S. ANDERSON LICENSE No. 70102 STATE OF FLORIDA PROFESSIONAL ENGINEER

NUCLEI

PROJECT SUNSHINE

BUILDING 1
810 PACE RD,
AUBURNDALE, FL 33823

ISSUE DATE	DESCRIPTION
09/21/2026	REVISED FIT-UP IFP

Δ	DESCRIPTION	DATE

ISSUE:

PROJ NO
2540-01309

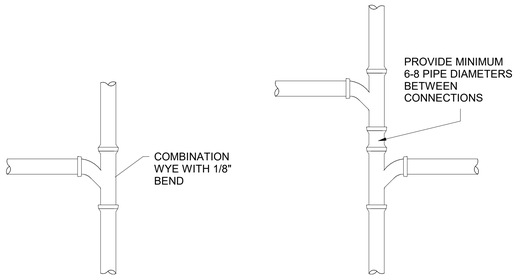
CHECKED BY: CSA
DRAWN BY: BRM, JMG

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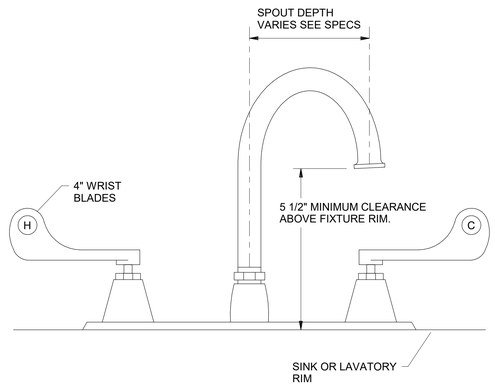
SHEET TITLE

PLUMBING DETAILS - ACCESSORIES, VALVES, & PIPING

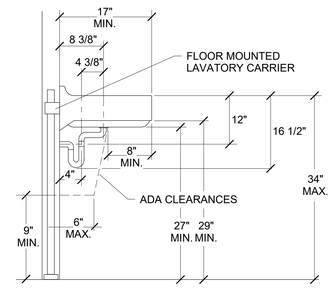
SHEET NUMBER
BLDG1-PL501



SANITARY PIPE CONNECTION DETAIL — 1
No Scale

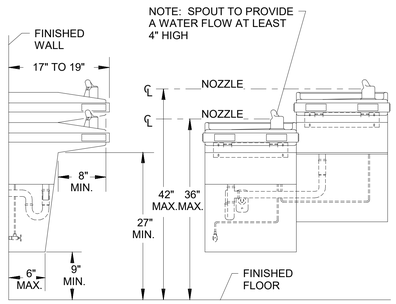


TYPICAL GOOSENECK FAUCET REQUIREMENTS — 2
No Scale



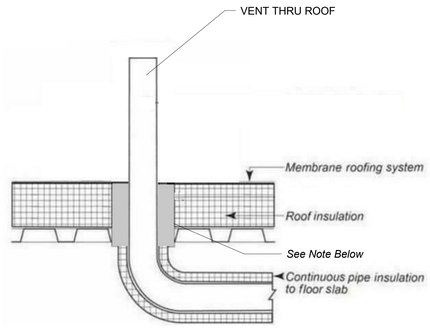
NOTE:
CONTRACTOR TO FIELD MODIFY P-TRAP AND OFFSET DRAIN TO EXACT SIZES AS SHOWN.

ACCESSIBLE LAVATORY INSTALLATION W/ CARRIER DETAIL — 3
No Scale



NOTE:
REFER TO ARCHITECHURAL PLAN FOR ALCOVE, RECESS DIMENSIONS OR CLEAR FLOOR AREA.

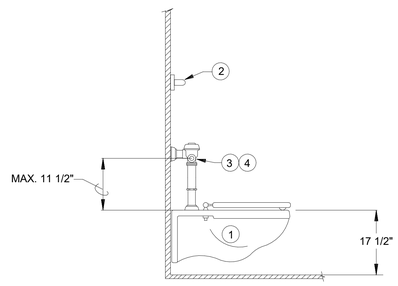
ACCESSIBLE COOLER - HIGH-LOW DETAIL — 4
No Scale



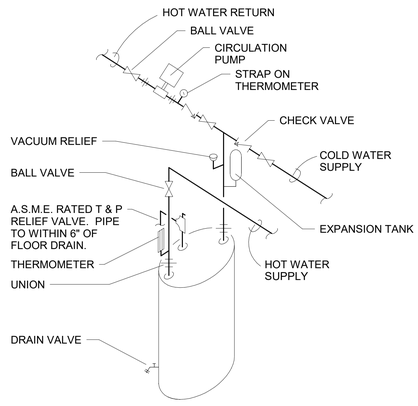
PACKING MATERIAL - MIN 1 IN. (25MM) THICKNESS OF FIRMLY PACKED MINERAL WOOL BATT INSULATION USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR SLEEVE OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM B)

PLUMBING VTR INSULATION DETAIL — 5
No Scale

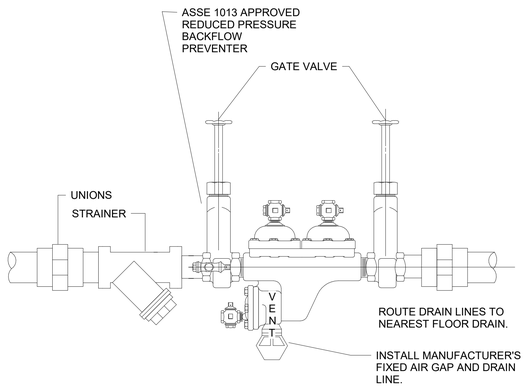
1. WALL MOUNTED WATER CLOSET. TOP OF SEAT SHALL BE 17"-19" IN CONFORMANCE WITH ADA GUIDELINES.
2. HANDICAP GRAB BAR. MOUNT BETWEEN 33" AND 36" AFF. TO CONFORM WITH ADA GUIDELINES
3. FLUSH VALVE. MOUNT @ 29" TO CENTER OF HANDLE
4. HANDLE OF FLUSH VALVE SHALL BE MOUNTED ON WIDE SIDE OF ROOM.



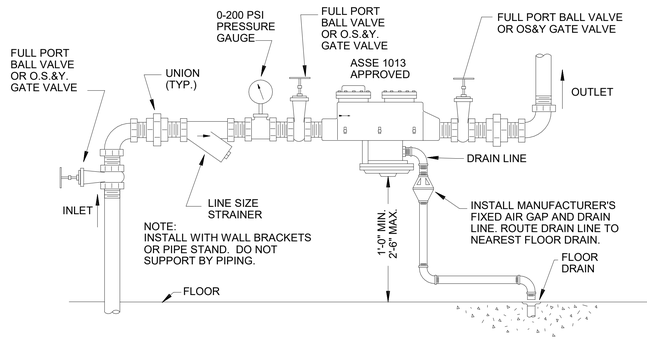
WALL HUNG ACCESSIBLE WATER CLOSET DETAIL — 6
No Scale



ELECTRIC WATER HEATER DETAIL WITH CIRCULATION PUMP — 7
No Scale



3/4" - 2" REDUCED PRESSURE BACKFLOW PREVENTER DETAIL — 8
No Scale



REDUCED PRESSURE BACKFLOW PREVENTER DETAIL — 9
No Scale

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Nashville
2950 Kraft Drive
Nashville, TN 37204
FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

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CHECKED BY: CSA
DRAWN BY: BRM, JMG

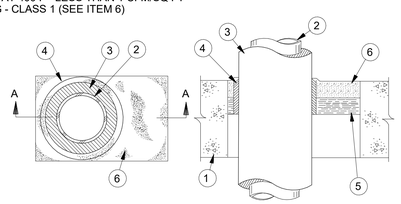
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SHEET TITLE

PLUMBING DETAILS - FIXTURES, EQUIPMENT, & PIPING

SHEET NUMBER
BLDG1-PL502

SYSTEM NO. C-AJ-5017
AUGUST 23, 2004
(FORMERLY SYSTEM NO. 395)
F RATING - 3 HR
T RATINGS - 1/2 AND 1 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT
W RATING - CLASS 1 (SEE ITEM 6)



SECTION A-A

1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS* MAX AREA OF SQUARE, RECTANGULAR OR CIRCULAR OPENING IS 45 SQ IN. WITH MAX DIMENSION OF 9 IN.
   SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. PIPE - NOM 3 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER PIPE OR NOM 2-1/2 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE. ONE OR MORE INSULATED PIPES MAY BE INSTALLED WITH A MIN CLEARANCE OF 1/2 IN. MAINTAINED BETWEEN INSULATED PIPES AND WITH A MIN CLEARANCE OF 1/4 IN. MAINTAINED BETWEEN INSULATED PIPE AND SIDES OF THROUGH OPENING. PIPES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

3. PIPE INSULATION - PLASTICS# - NOM 3/4 IN. THICK ACRYLONITRILE BUTADIENE/POLYVINYL CHLORIDE (AB/PVC) FLEXIBLE FOAM FURNISHED IN THE FORM OF TUBING WITH SKIN. WHEN NOM 2-1/2 OR 3 IN. DIAM INSULATED STEEL OR COPPER PIPE IS USED, T RATING IS 1/2 HR. WHEN MAX 2 IN. DIAM INSULATED STEEL OR COPPER PIPE IS USED, T RATING IS 1 HR.
   SEE PLASTICS# (QMFZ2) CATEGORY IN THE RECOGNIZED COMPONENT DIRECTORY FOR NAMES OF MANUFACTURERS. ANY RECOGNIZED COMPONENT TUBE INSULATION MATERIAL MEETING THE ABOVE SPECIFICATIONS AND HAVING A UL94 FLAMMABILITY CLASSIFICATION OF 94-5VA MAY BE USED.

4. FILL, VOID OR CAVITY MATERIALS* - WRAP STRIP - NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. WIDE STRIPS. ONE NOM 2 IN. WIDE STRIP TIGHTLY-WRAPPED AROUND PIPE INSULATION (ITEM 3) WITH THE FOIL SIDE EXPOSED AND SLID INTO THROUGH OPENING SUCH THAT THE TOP EDGE IS FLUSH WITH TOP SURFACE OF FLOOR. WHEN A SINGLE INSULATED PIPE IS INSTALLED IN A CIRCULAR THROUGH OPENING AND WHEN THE MAX ANNULAR SPACE BETWEEN THE INSULATED PIPE AND THE SIDES OF THE THROUGH OPENING IS 3/8 IN., THE WRAP STRIP LAYER MAY BE SECURED IN PLACE WITH PRESSURE-SENSITIVE TAPE. IN ALL OTHER SITUATIONS, THE WRAP STRIP LAYER SHALL BE SECURED IN PLACE WITH MIN NO. 18 GAUGE GALV STEEL TIE WIRE. IN WALL ASSEMBLIES, THE WRAP STRIP LAYER IS TO BE INSTALLED ON THE INSULATED PIPE IN THE SAME MANNER USED FOR FLOOR ASSEMBLIES BUT SHALL BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF THE WALL.
   3M COMPANY - TYPE FS-195+

5. PACKING MATERIAL - MIN 1 IN. THICK MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING WITH ITS TOP SURFACE RECESSED MIN 1 IN. FROM TOP SURFACE OF THE FLOOR. IN WALL ASSEMBLIES, PACKING MATERIAL TO BE FIRMLY PACKED INTO OPENING ON BOTH SIDES OF WALL AND RECESSED MIN 1 IN. FROM WALL SURFACE. WHEN A SINGLE INSULATED PIPE (WITH WRAP STRIP LAYER) IS INSTALLED IN A CIRCULAR THROUGH OPENING AND WHEN THE MAX ANNULAR SPACE BETWEEN THE WRAP STRIP LAYER AND THE SIDES OF THE THROUGH OPENING IS 1/8 IN., NO FORMING MATERIAL IS REQUIRED.

6. FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - APPLIED TO FILL THROUGH OPENING TO A MIN DEPTH OF 1 IN. IN FLOOR ASSEMBLIES, FILL MATERIAL TO BE INSTALLED FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, FILL MATERIAL TO BE INSTALLED FLUSH WITH WALL SURFACE ON BOTH SIDES OF WALL.
   3M COMPANY - CP 25WB+ OR FB-3000 WT.

   (NOTE - W RATING APPLIES ONLY WHEN FB-3000 WT IS USED.)
   *BEARING THE UL CLASSIFICATION MARK
   LAST UPDATED ON 2004-08-23

   UL LISTED AND CLASSIFIED PRODUCTS UL RECOGNIZED COMPONENTSPRODUCTS CERTIFIED FOR CANADA

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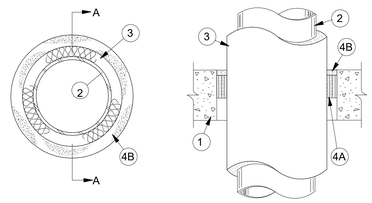
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THROUGH-PENETRATION FIRESTOP SYSTEMS
C-AJ-5017
No Scale

1

SYSTEM NO. C-AJ-5002
SEPTEMBER 03, 2004
(FORMERLY SYSTEM NO. 91-B)
F RATINGS - 2 AND 3 HR (SEE ITEMS 1A AND 4)
T RATINGS - 0, 1/2 AND 1 HR (SEE ITEMS 1A AND 4)
L RATING AT AMBIENT - 2 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



SECTION A-A

1. FLOOR OR WALL ASSEMBLY - MIN 2-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 36 IN.
   SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

1A. STEEL SLEEVE - (OPTIONAL, NOT SHOWN) - NOM 36 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE SLEEVE CAST INTO MIN 4-1/2 IN. THICK CONCRETE FLOOR OR WALL. SLEEVE TO BE FLUSH WITH OR PROJECT MAX 2 IN. FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL. WHEN STEEL SLEEVE IS USED, F RATING IS 2 HR AND T RATING IS 0 HR.

2. PIPE - NOM 4 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER PIPE, NOM 15 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 30 IN. DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE OR NOM 30 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE CENTERED IN THE OPENING AND RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY.

3. PIPE COVERING* - NOM 1, 2 OR 3 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN. 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT.

   SEE PIPE AND EQUIPMENT COVERING - MATERIALS* (BRGU) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.

4. FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:

   A. FILL, VOID OR CAVITY MATERIALS* - WRAP STRIP - NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. WIDE BY 24 IN. LONG STRIPS. NOM 2 IN. WIDE STRIPS TIGHTLY-WRAPPED AROUND PIPE COVERING (FOIL SIDE EXPOSED) TO FILL ANNULAR SPACE. EACH LAYER OF WRAP STRIP IS TO BE INSTALLED WITH A BUTTED SEAM, WITH THE BUTTED SEAMS IN SUCCESSIVE LAYERS STAGGERED. WRAP STRIP LAYERS SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLIDE INTO ANNULAR SPACE SUCH THAT THE TOP EDGES ARE RECESSED MIN 1/2 IN. FORM TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, THE WRAP STRIP LAYERS SHALL BE INSTALLED IN THE SAME MANNER USED FOR FLOOR ASSEMBLIES BUT SHALL BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF THE WALL. THE MIN NUMBER OF WRAP STRIP LAYERS REQUIRED IS DEPENDENT UPON THE MAX PIPE SIZE AND THE PIPE COVERING THICKNESS, AS SHOWN IN THE FOLLOWING TABLE:

Minimum Floor or Wall Thickness In.	Maximum Pipe Diameter Inches	Nominal Pipe Covering Thkns In.	Annular Space Inches	Min No. of Wrap Strip Layers	F Rating Hour	T Rating Hour
2-1/2	6	1	1/4 to 3/8	1	2	1
2-1/2	6	2	1/2 to 5/8	2	2	1
2-1/2	12	1	1/4 to 3/8	1	2	1/2
4-1/2	12	1	1/4 to 3/8	1	2	1
4-1/2	12	2	1/2 to 5/8	2	2	1
4-1/2	20	1	1/2 to 1	2	3	1
4-1/2	30	2	3/4 to 1 1/4	3	2	1
4-1/2	20	3	1 to 1 1/2	4	2	1

   3M COMPANY - FS-195+

   B. FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - APPLIED TO FILL THE ANNULAR SPACE (OVER EDGES OF WRAP STRIP LAYERS) TO A MIN DEPTH OF 1/2 IN., FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL.

   3M COMPANY - CP 25WB+ OR FB-3000 WT

   *BEARING THE UL CLASSIFICATION MARK LAST UPDATED ON 2004-09-03

   UL LISTED AND CLASSIFIED PRODUCTS UL RECOGNIZED COMPONENTS PRODUCTS CERTIFIED FOR CANADA

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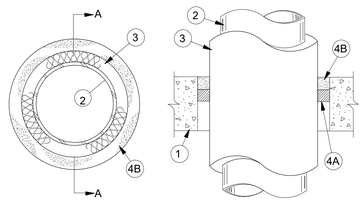
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THROUGH-PENETRATION FIRESTOP SYSTEMS
C-AJ-5002
No Scale

3

SYSTEM NO. C-AJ-5001
MARCH 05, 2007
F RATINGS - 1 1/2 , 2 AND 3 HR (SEE ITEM 4)
T RATINGS - 0, 1/2 , 3/4 AND 1 HR (SEE ITEMS 1A AND 4)
L RATING AT AMBIENT - 2 CFM PER SQ FT
L RATING AT 400 F - LESS THAN 1 CFM PER SQ FT



SECTION A-A

1. FLOOR OR WALL ASSEMBLY - MIN 2-1/2 IN. (64 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 18 IN. (457 MM)
   SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

1A. STEEL SLEEVE - (OPTIONAL, NOT SHOWN) - NOM 10 IN. (254 MM) (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 2 IN. (51 MM) ABOVE TOP OF FLOOR OR BEYOND EITHER SURFACE OF WALL. T RATING IS 0 HR WHEN SLEEVE IS USED.

2. THROUGH PENETRANT - NOM 4 IN. (102 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER PIPE, NOM 12 IN. (305 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. (305 MM) DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE OR NOM 12 IN. (305 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE CENTERED IN THE OPENING AND RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY.

3. PIPE COVERING* - NOM 1/2 TO 2 IN. (13 TO 51 MM) THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN. 3.5 PCF OR 56 KG/M3) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT.
   SEE PIPE AND EQUIPMENT COVERING - MATERIALS* (BRGU) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.

4. FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:

   A. PACKING MATERIAL - MIN 1 IN. (25 MM) THICKNESS OF FIRMLY PACKED MINERAL WOOL BATT INSULATION USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR SLEEVE OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM B).

   B. FILL, VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH THE TOP SURFACE OF THE FLOOR OR SLEEVE OR FLUSH WITH BOTH SURFACES OF WALL. WHEN NOM PIPE COVERING THICKNESS IS 2 IN. (51 MM), MIN THICKNESS OF CAULK FILL MATERIAL IS 2 IN. (51 MM). WHEN NOM PIPE COVERING THICKNESS IS 1-1/2 IN. (38 MM) OR LESS, MIN THICKNESS OF CAULK FILL MATERIAL IS 1 IN. (25 MM). THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE DEPENDENT UPON THE THICKNESS OF THE FLOOR OR WALL, THE SIZE OF PIPE, THE THICKNESS OF PIPE COVERING MATERIAL AND THE SIZE OF THE ANNULAR SPACE (BETWEEN THE PIPE COVERING MATERIAL AND THE EDGE OF THE CIRCULAR THROUGH OPENING), AS SHOWN IN THE FOLLOWING TABLE:

Minimum Floor or Wall Thickness In.	Maximum Pipe Diameter Inches	Nominal Pipe Covering Thkns In.	Annular Space Inches	F Rating Hour	T Rating Hour
2-1/2 (64)	4 (102)	1 or 1 1/2(25 or 38)	1/2 to 2 3/8 (13 to 60)	2	1
4-1/2 (114)	4 (102)	2 (51)	1/4 to 3 5/8 (6 to 92)	2	1/2
2-1/2 (64)	12 (305)	1 (25)	1/2 to 1 1/2(13 to 38)	2	1/2
4-1/2 (114)	12 (305)	1 (25)	1/2 to 2 3/8 (13 to 60)	3	1
2-1/2 (64)	12 (305)	1/2 (13)	1/2 to 2 3/8 (13 to 60)	2	0

   3M COMPANY - CP 25WB+ OR FB-3000 WT

   *BEARING THE UL CLASSIFICATION MARK LAST UPDATED ON 2007-03-05

   UL LISTED AND CLASSIFIED PRODUCTS UL RECOGNIZED COMPONENTS PRODUCTS CERTIFIED FOR CANADA

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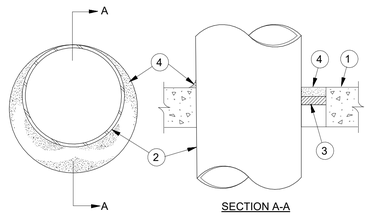
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THROUGH-PENETRATION FIRESTOP SYSTEMS
C-AJ-5001
No Scale

2

SYSTEM NO. C-AJ-1001
MARCH 05, 2007
F RATING - 3 HR
T RATING - 0 HR
W RATING - CLASS 1 (SEE ITEM 4)



SECTION A-A

1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. (114 MM) THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF CIRCULAR THROUGH OPENING IS 32-1/2 IN. (826 MM).

   SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

1A. STEEL SLEEVE - (OPTIONAL, NOT SHOWN) - NOM 12 IN. (305 MM) DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE SLEEVE CAST INTO CONCRETE FLOOR OR WALL. SLEEVE TO BE FLUSH WITH OR PROJECT MAX 2 IN. (51 MM) FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL.

2. THROUGH - PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (0 MM, POINT CONTACT) TO MAX 1-3/8 IN. (35 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES; CONDUITS OR TUBING MAY BE USED:

   A. STEEL PIPE - NOM 30 IN. (762 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

   A1. IRON PIPE - NOM 30 IN. (762 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

   B. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) RIGID STEEL CONDUIT.

   C. CONDUIT - NOM 4 IN. (152 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.

3. PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOM 1 IN. (25 MM) THICKNESS OF TIGHTLY-PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET, MINERAL WOOL BATT OR GLASS FIBER INSULATION MATERIAL USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF SOLID CONCRETE OR CONCRETE BLOCK WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4). AS AN ALTERNATE WHEN MAX PIPE SIZE IS 10 IN. (254 MM) DIAM AND WHEN MAX ANNULAR SPACE IS 1 IN. (25 MM), A MIN 1 IN. (25 MM) THICKNESS OF TIGHTLY-PACKED CERAMIC FIBER BLANKET OR MINERAL WOOL BATT PACKING MATERIAL MAY BE RECESSED MIN 1/2 IN. (13 MM) FROM BOTTOM SURFACE OF FLOOR OR FROM EITHER SIDE OF SOLID CONCRETE WALL.

4. FILL, VOID OR CAVITY MATERIALS* - CAULK - APPLIED TO FILL THE ANNULAR SPACE TO THE MIN THICKNESS SHOWN IN THE FOLLOWING TABLE:

Maximum Pipe Diameter Inches	Maximum Annular Space Inches	Packing Material Type (a)	Minimum Caulk Thickness Inches
10 (254)	1 (25)	BR, CF, GF or MW	1/2 (13) (B)
10 (254)	1 (25)	CF or MW	1/2 (13) (C)
30 (762)	2 1/2 (64)	BR, CF, GF or MW	1 (25) (B)

   (A) BR=POLYETHYLENE BACKER ROD.
   CF=CERAMIC FIBER BLANKET.
   GF=GLASS FIBER INSULATION.
   MW=MINERAL-WOOL BATT.
   (B) CAULK INSTALLED FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL
   (C) CAULK INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR OR ONE SURFACE OF SOLID (NON-CONCRETE BLOCK) WALL

   3M COMPANY - TYPE CP 25WB+ OR FB-3000 WT

   (NOTE - W RATING APPLIES ONLY WHEN FB-3000 WT IS USED.)

   *BEARING THE UL CLASSIFICATION MARK LAST UPDATED ON 2007-03-05

   UL LISTED AND CLASSIFIED PRODUCTS UL RECOGNIZED COMPONENTS PRODUCTS CERTIFIED FOR CANADA

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THROUGH-PENETRATION FIRESTOP SYSTEMS
C-AJ-1001
No Scale

1

Salas O'Brien
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2950 Kraft Drive
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FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

PROFESSIONAL SEAL

CHRISTOPHER S. ARGIRIS LICENSE No. 70102 STATE OF FLORIDA PROFESSIONAL ENGINEER

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PROJECT SUNSHINE

BUILDING 1
810 PACE RD.
AUBURNDALE, FL 33823

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SHEET TITLE

PLUMBING DETAILS - FIRESTOPPING

SHEET NUMBER
BLDG1-PL503

WATER SOFTENER SCHEDULE

TAG	MANUFACT.	MODEL	NORMAL FLOW (GPM)	PEAK FLOW (GPM)	CAPACITY / VESSEL (GRAINS)	PIPE & VALVE SIZE	RESIN VOL. / TANK (FT³)	LOCATION
WS-1	CULLIGAN	CTM-90-PF DUPLEX	57	75	148 @ 75 LBS SALT	1-1/2"	5	MECH GALLERY A 158

NOTES:

1. COORDINATE SERVICE WITH LOCAL CULLIGAN EQPT VENDOR OR CONTACT JOHAN COETZEE W/ CULLIGAN-SA (210.226.5344)

THERMOSTATIC MIXING VALVE SCHEDULE

TAG	MANUFACTURER	MODEL	FLOW (GPM)	PRESSURE LOSS (PSI)	LOCATION
TMV-1	LEONARD	170A-LF	0.25	5	WC 145, WC 144

ELECTRIC STORAGE WATER HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	STORAGE (GAL.)	RECOVERY (GPH @ 60 °F)	ELEMENTS & K.W.	ELECTRICAL	LOCATION
WH-1	BRADFORD WHITE	LE120L3-3	19	41	2 ELEM @ 3KW EA.	240V/3ϕ/12.5 FLA; 6kW TOTAL	JAN. 01.F.20
WH-2	BRADFORD WHITE	LE120L3-3	19	41	2 ELEM @ 3KW EA.	240V/3ϕ/12.5 FLA; 6kW TOTAL	JAN. 01.F.38
WH-3	BRADFORD WHITE	LE120L3-3	19	41	2 ELEM @ 3KW EA.	240V/3ϕ/12.5 FLA; 6kW TOTAL	JAN. 01.E.13

NOTES:
1. PROVIDE ZURN EXPANSION TANK MODEL NO. XT-8 (2.1 GAL VOLUME, 14 LBS. OPR. WEIGHT) VOLUME) FOR WH-1. WALL MOUNT WITH HOLDRITE TANK WALL BRACKET OR EQUAL.

ELECTRIC INSTANTANEOUS WATER HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	FLOW (GPM)	TEMP. RISE (°F)	ELECTRICAL	LOCATION
WH-4	EEMAX	AM010277T	0.3	66	277V/1PH 10kW, 36AMPS	WC - 01.A.03
WH-5	EEMAX	PA016277TC	0.7	66	277V/1PH 16kW, 58AMPS	SHOWER - 01.C.08
WH-6						WOMENS - 01.C.07
WH-7						SHOWER - 01.C.10
WH-8						MENS - 01.C.11

PLUMBING FIXTURE SCHEDULE

MARK	ITEM	HW	CW	WASTE	SUPPLY STOP	DESCRIPTION	MFG & MODEL
P-1	WATER CLOSET - WALL MOUNTED (ADA)	-	1"	3"	-	WATER CLOSET: AMERICAN STANDARD "AFFWALL", WALL MOUNTED TOILET, 1.28 GPF. HARDWIRED FLUSH VALVE: SLOAN EXPOSED SENSOR HARDWIRED 1.28 GPF, DUAL-FILTERED FIXED BYPASS DIAPHRAGM, POLISHED CHROME FINISH, TRUE MECHANICAL OVERIDE, TRAP PRIMER OUTLET TUBE, ELECTRICAL OVERRIDE, HARDWIRED, SENSOR-OPERATED, 24V. PROVIDE ONE (1) SLOAN EL-154 TRANSFORMER FOR EACH TOILET ROOM AND TURN OVER TO ELECTRICAL CONTRACTOR. SEAT: CHURCH #9500SSCT; OPEN FRONT SEAT WITH STAINLESS STEEL SELF SUSTAINING CHECK HINGE AND STA-TITE FASTENING SYSTEM WITH DURAGUARD ANTIMICROBIAL AGENT. CARRIER: ZURN #ZN1201 SERIES NARROW WALL FLOOR MOUNTED ADJUSTABLE CARRIER SYSTEM.	WC: AMERICAN STANDARD #2257.101 "AFFWALL" FV: SLOAN ROYAL #111-ESS-1.28-TMO-HW; #VBF-72-A1; #EL-154 SEAT: CHURCH #9500SSCT CARRIER: ZURN #Z1200
P-2	WATER CLOSET -WALL MOUNTED	-	1"	4"	-	WATER CLOSET: AMERICAN STANDARD "AFFWALL", WALL MOUNTED TOILET, 1.28 GPF. HARDWIRED FLUSH VALVE: SLOAN EXPOSED SENSOR HARDWIRED 1.28 GPF, DUAL-FILTERED FIXED BYPASS DIAPHRAGM, POLISHED CHROME FINISH, TRUE MECHANICAL OVERIDE, TRAP PRIMER OUTLET TUBE, ELECTRICAL OVERRIDE, HARDWIRED, SENSOR-OPERATED, 24V. PROVIDE ONE (1) SLOAN EL-154 TRANSFORMER FOR EACH TOILET ROOM AND TURN OVER TO ELECTRICAL CONTRACTOR. SEAT: CHURCH #9500SSCT; OPEN FRONT SEAT WITH STAINLESS STEEL SELF SUSTAINING CHECK HINGE AND STA-TITE FASTENING SYSTEM WITH DURAGUARD ANTIMICROBIAL AGENT. CARRIER: ZURN #ZN1201 SERIES NARROW WALL FLOOR MOUNTED ADJUSTABLE CARRIER SYSTEM.	WC: AMERICAN STANDARD #2257.101 "AFFWALL" FV: SLOAN ROYAL #111-ESS-1.28-TMO-HW; #VBF-72-A1; #EL-154 SEAT: CHURCH #9500SSCT CARRIER: ZURN #Z1200
P-3	LAVATORY (UNDERMOUNT)	1/2"	1/2"	1-1/2"	HW & CW	LAVATORY: "STUDIO" 19-3/4" X 13-3/4" X 6-7/16" UNDERMOUNT, VITREOUS CHINA BASIN. PROVIDE WITH: PRE-INSULATED OFFSET WHEEL CHAIR WASTE & P-TRAP W/ STAINLESS STEEL GRID STRAINER, 1-1/2" 17 GAUGE P-TRAP WITH CLEANOUT, 1/2" NPT X 3/8" COMPRESSION 1/4 TURN BALL VALVE STOPS AND COVERS, CHROME PLATED BRASS ESCUTCHEONS, WITH BRAIDED STAINLESS STEEL SUPPLY RISERS FAUCET: INFRARED SENSOR HARDWIRED-POWERED DECK-MOUNTED MID BODY FAUCET, SINGLE HOLE, PLUG ADAPTER POWER SUPPLY W/ BATTERY BACKUP, POLISHED CHROME FINISH, 0.5 GP...	LAVATORY: AM. STD. "STUDIO" #0614000.020 FAUCET: SLOAN SF-2400-4-PLG-TEE-CP-0.35GPM-ML M-FCT WASTE & SUPPLY: MCGUIRE...
P-4	LAVATORY (WALL HUNG)	1/2"	1/2"	1-1/2"	HW & CW	LAVATORY: WALL-HUNG, VITREOUS CHINA BASIN. PROVIDE WITH: PRE-INSULATED OFFSET WHEEL CHAIR WASTE & P-TRAP W/ STAINLESS STEEL GRID STRAINER, 1-1/2" 17 GAUGE P-TRAP WITH CLEANOUT, 1/2" NPT X 3/8" COMPRESSION 1/4 TURN BALL VALVE STOPS AND COVERS, CHROME PLATED BRASS ESCUTCHEONS, WITH BRAIDED STAINLESS STEEL SUPPLY RISERS FAUCET: INFRARED SENSOR HARDWIRED-POWERED DECK-MOUNTED MID BODY FAUCET, SINGLE HOLE, PLUG ADAPTER POWER SUPPLY W/ BATTERY BACKUP, POLISHED CHROME FINISH, 0.5 GPM, MULTI-LAMINAR SPRAY.	LAVATORY: AM. STD. #0355012.020 FAUCET: SLOAN SF-2400-4-PLG-TEE-CP-0.35GPM-ML M-FCT WASTE & SUPPLY: MCGUIRE #PW215WC & 2- #LFBV2-02 CARRIER: ZURN #Z1231
P-5	HOSE BIBB	-	3/4"	-	CW	ZURN #Z1321XL EXPOSED, NON-FREEZE, LEAD FREE, AUTOMATIC DRAINING, INTEGRAL ANTI-SIPHON VACUUM BREAKER, WALL HYDRANT WITH CERAMIC DISK AND 1/2-TURN, LOOSE KEY OPERATION, WITH 3/4" INLET ELBOW AND WALL CLAMP. APPROVED UNDER ASSE 1019-B.	ZURN # Z1321XL
P-6	SHOWER (ADA)	1/2"	1/2"	1-1/2"	HW & CW	SHOWER: TILE, CENTER DRAIN, PROVIDE P-5 FOR DRAIN. FAUCET - CHROME PLATED, BALANCED PRESSURE, SINGLE HANDLE, BRASS VALVE.	SHOWER: TILE FAUCET: TEMP-GARD III SHOWER UNIT Z7300-SSC-HW6-MT
P-7	ICE MAKER CONNECTION BOX	-	1/2"	-	CW	WHITE POWDER COATED METAL REFRIGERATOR ICE MAKER OUTLET BOX WITH LEAD-FREE VALVE AND WATER HAMMER ARRESTER. PRODUCT CODE #88133. ASSE 1010 WATER HAMMER ARRESTOR.	GUY GRAY #MIB1AB
P-8	JANITOR'S MOP SINK	1/2"	1/2"	2"	HW & CW	MOLDED STONE, 1-PIECE, 36X24X12", 1-1/4" CURB, STAINLESS STEEL CAPS, INTEGRAL DRAIN, STAINLESS STEEL GRID STRAINER. FAUCET, SERVICE TYPE, VACUUM BREAKER, WALL BRACE, 8" SPOUT, BUCKET HOOK, 3/4" HOSE THREAD. MOP HANGER, STAINLESS STEEL 24X3".	SINK: STERN-WILLIAMS SB-300 FAUCET: STERN-WILLIAMS T-10-VB MOP HANGER: STERN-WILLIAMS T-40
P-9	FLOOR DRAIN - GENERAL DUTY	-	-	LINE SIZE	-	FLOOR DRAIN: 6" ROUND TOP, POLISHED BRONZE TOP, 1/2" TRAP PRIMER TAPPING AND NEO-LOC OUTLET CONNECTION. PROVIDE PROSET TRAP GUARD.	ZURN #ZB-415-6B
P-10	FLOOR DRAIN - HEAVY DUTY	-	-	LINE SIZE	-	FLOOR DRAIN: 12-1/4" DIAMETER TOP DRAIN. ACID RESISTING EPOXY COATED CAST IRON BODY WITH BOTTOM OUTLET, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP AND FRAME WITH INTEGRATED TRAP PRIMER AND PLUG, WITH ANTI-TILT HEAVY-DUTY SLOTTED DURESIST HINGED GRATE AND SUSPENDED POLYPROPYLENE SEDIMENT BUCKET.	ZURN #Z541-AR-H
P-11	ACCESS PANEL	-	-	-	-	12" X 12" DRYWALL ACCESS PANEL, 16 GAUGE STEEL PANEL AND FRAME, CONCEALED SPRING HINGE, EASY OPEN CAM LATCH, WHITE POWDER COATED STEEL. COORDINATE FINAL FINISH COLOR W/ ARCH.	MILCOR #3203012 DW-C-12X12-CR-W
P-12	ELECTRIC DRINKING FOUNTAIN	-	1/2"	1-1/2"	CW	DRINKING FOUNTAIN: 8 GALLON CAPACITY, STAINLESS STEEL CABINET, ENERGY EFFICIENT, REFRIGERATED BI-LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLER PROVIDE WITH ½" NPT X 3/8" COMPRESSION, ¼ TURN BALL VALVE SUPPLY STOP. 1-1/4" 17 GA. P-TRAP WITHOUT CLEANOUT, INSULATE P-TRAP AND DRAIN PIPING WITH ½" ARMAFLEX INSULATION. CARRIER WITH 2 UPRIGHTS, UPPER PLATE AND LOWER SUPPORT BAR FOR BOTTOM OF DRINKING FOUNTAIN CABINET.	DRINKING FOUNTAIN: HAWS #1212SF WASTE & SUPPLY: McGUIRE #8902CNC & #LFBV2-02 CARRIER: ZURN #Z1225
P-13	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER	-	2"	-	CW	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER SHALL BE CERTIFIED TO NSF/ANSI/CAN 61 AND 372, SHALL BE ASSE® LISTED 1013, RATED TO 180°F, AND SUPPLIED WITH FULL PORT BALL VALVES.	ZURN 975XL2
P-14	REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY	-	2-1/2"	-	CW	REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY SHALL BE CERTIFIED TO NSF/ANSI/CAN 61 AND 372, SHALL BE ASSE® LISTED 1013, RATED TO 180°F, AND SUPPLIED WITH FULL PORT BALL VALVES.	ZURN WILKINS 375
P-15	JANITOR'S STANDING SINK	1/2	1/2	2	CW & HW	ONE-PIECE MOLDED CONSTRUCTION USING NATURAL CRUSHED STONE AND POLYESTER RESINS WITH MATCHED METAL MOLDS UNDER EXTREME HEAT AND PRESSURE. TUB TO INCLUDE BUILT-IN SCRUB BOARD, INTEGRALLY MOLDED DRAIN, STOPPER AND FLOOR OR WALL MOUNTING HARDWARE. SHALL MEET ANSI SPECIFICATION Z 124-2017. COLOR: MARBLEIZED WHITE. 30 LBS., CUBIC FT. 5.9. INSTALL IN COMPLIANCE WITH LOCAL CODES.	SINK: E.L. MUSTEE #17 UTILATUB, FAUCET: E.L. MUSTEE #93.600; WASTE & SUPPLY: ELKAY #LK-35B, MCGUIRE #8912CF, #1000WC, 2 - #LFBV2-02
TP-1	TRAP PRIMER	-	1/2"	-	CW	TRAP PRIMER VALVE WITH 'DU' DISTRIBUTION UNIT SIZED PER NUMBER OF DRAINS PRIMED; CONSTRUCTED OF LEAD FREE BRASS, EPDM E70 O-RINGS.	TRAP PRIMER: PPP,INC #P1-500; W/ DU-U TO SERVE UP TO 4 DRAINS.

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FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

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AUBURNDALE, FL 33823

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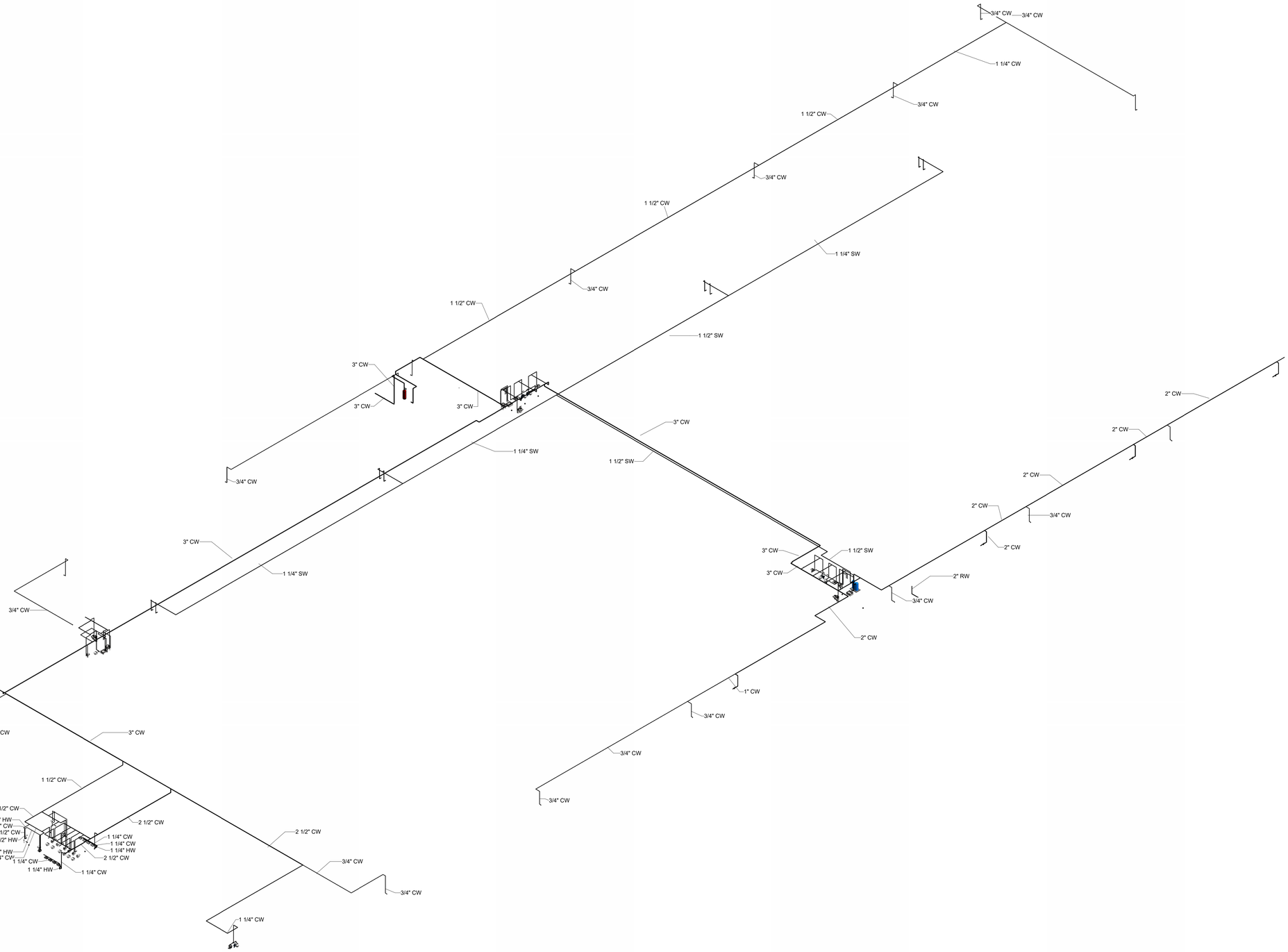
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SHEET TITLE

PLUMBING SCHEDULES

SHEET NUMBER

BLDG1-PL601



1 ISOMETRIC RISER - WATER
SCALE:

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FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

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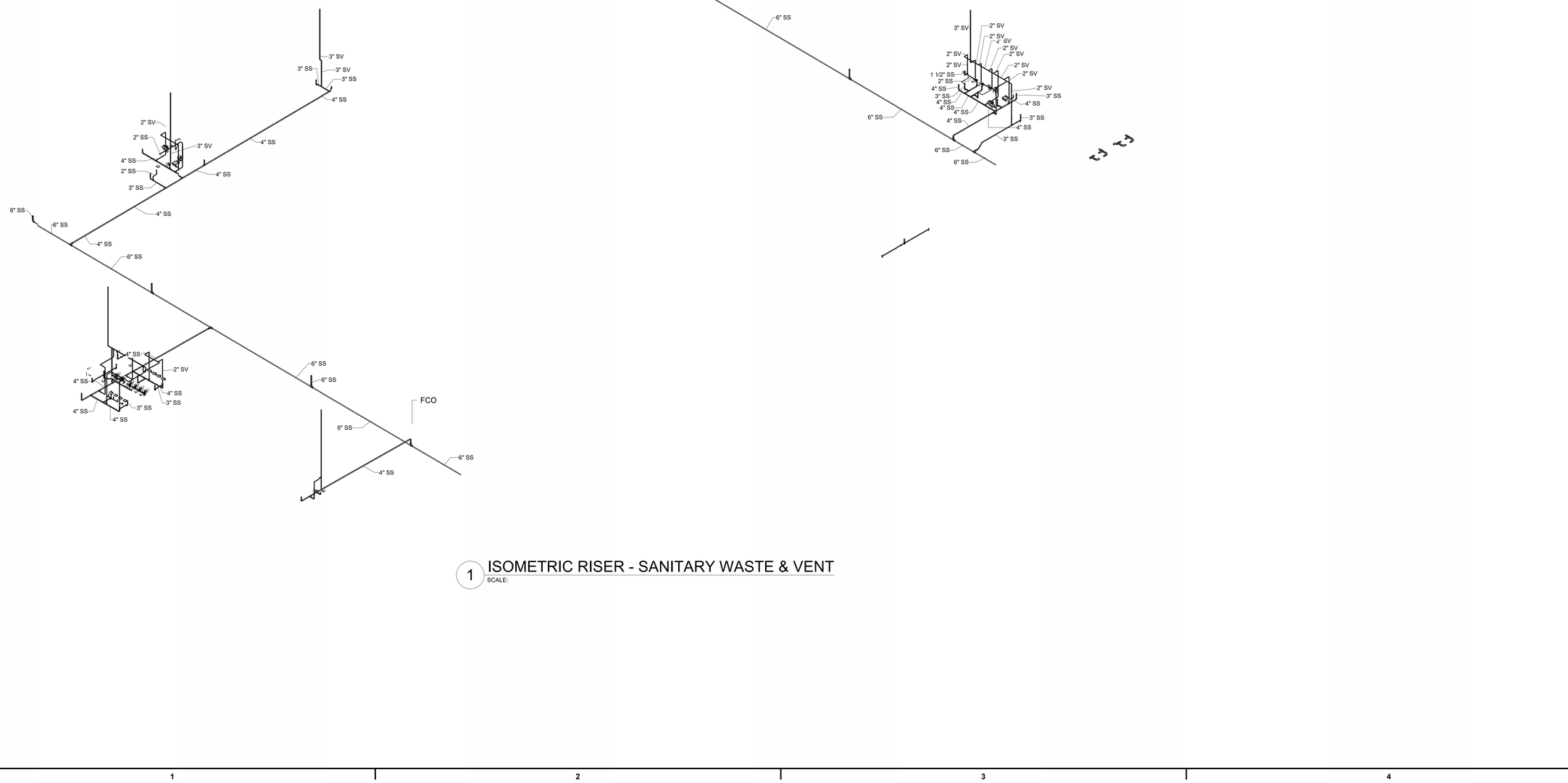
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SHEET TITLE

ISOMETRIC
PLUMBING RISER
FIT-UP

SHEET NUMBER
BLDG1-PL701-A



1 ISOMETRIC RISER - SANITARY WASTE & VENT
SCALE:

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FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

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