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PLUMBING LEGEND		ABBREVIATIONS		CODE REFERENCE (ALL MAY NOT APPLY)	
120 HOT WATER SUPPLY		DHW	AAV	AIR ADMITTANCE VALVE	THE LATEST EDITIONS OF THE ESTABLISHED STANDARDS OF THE FOLLOWING ORGANIZATIONS, AND INDIVIDUAL STANDARDS NAMED SHALL BE FOLLOWED THE SAME AS IF THEY WERE FULLY WRITTEN HEREIN AND CONSTITUTE A PART OF THE SPECIFICATION REQUIREMENTS EXCEPT WHERE OTHERWISE SPECIFIED:
HOT WATER RETURN		HWR	AFF	ABOVE FINISHED FLOOR	
COLD WATER SUPPLY		DCW	AHAP	AS HIGH AS POSSIBLE	
SANITARY		SAN	BFP	BACK FLOW PREVENTOR	
KITCHEN GREASE SANITARY		GW	BFF	BELOW FLOOR	FBC, BUILDING
STORM		ST	BFG	BELOW FINISHED FLOOR	FLORIDA BUILDING CODE 8TH EDITION
STORM OVERFLOW		STO	BG	BELOW GRADE	FBC, PLUMBING
VENT PIPING		VENT	BOD	BASIS OF DESIGN	FLORIDA BUILDING CODE 8TH EDITION
CONDENSATE		C	C	CONDENSATE	FBC, EXISTING
ELBOW, TURNED DOWN		DN	CO	CLEAN OUT	FBC, FUEL GAS
ELBOW, TURNED UP		UP	CVV	COMBINATION WASTE AND VENT	FBC, ENERGY CONSERVATION
ELBOW, 90°			DCW	DOMESTIC COLD WATER	FLORIDA FIRE PREVENTION CODE, 2023 8TH EDITION
CONNECTION, TOP			DHW	DOMESTIC HOT WATER	FFPC
CONNECTION, BOTTOM			DN	DOWN	NFPA 54
CONNECTION, SIDE			ECO	EXTERIOR CLEANOUT	NFPA 101
CAP, AIR AND WATER TIGHT			EWC	ELECTRIC WATER COOLER	LIFE SAFETY CODE
VENT THROUGH ROOF		VTR	EWB	ELECTRIC WATER HEATER	GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY
RECIRCULATION PUMP			EX	EXISTING	CODE FOR MEANS OF EGRESS FOR BUILDINGS AND STRUCTURES
CHECK VALVE / BACKFLOW PREVENTOR			FC	FLOW CONTROL VALVE	NFPA 101B
BALL VALVE			FCO	FLOOR CLEANOUT	
FLOW CONTROL VALVE			FD	FLOOR DRAIN	NFPA 900
WATER METER			GDW	GAS WATER HEATER	BUILDING ENERGY CODE
PRESSURE REGULATOR			HB	HOSE BIBB	ASTM
SOLENOID SHUTOFF VALVE			HDB	HUB DRAIN	AMERICAN SOCIETY FOR TESTING AND MATERIALS
HOSE BIBB WITH VACUUM BREAKER			HWR	HOT WATER RETURN	ANSI
AIR ADMITTANCE VALVE (BOD: STUDOR)		AAV	IE	INVERT ELEVATION	AMERICAN NATIONAL STANDARDS INSTITUTE
UNION			IM	ICE MAKER VALVE BOX	AMERICAN SOCIETY OF PLUMBING ENGINEERS
WALL CLEANOUT			IRP	IN-LINE RECIRCULATION PUMP	ADA
FLOOR CLEANOUT			L	LAVATORY	AMERICANS WITH DISABILITIES ACT
FLOOR DRAIN			MS	MOP SINK	UL
FLOOR SINK			PF	PLUMBING FIXTURE	
EXISTING SYSTEM PIPING			PR#	PRESSURE RISER NO.	THESE CODE AND STANDARDS SHALL BE CONSIDERED A MINIMUM REQUIREMENT. THE CONTRACTOR SHALL NOT RELIEVED FROM PROVIDING HIGHER GRADE MATERIALS, PRODUCTS AND WORKMANSHIP WHICH MAY BE SPECIFIED WITHIN THESE DOCUMENTS.
TO BE DEMOLISHED			SAN	SANITARY WASTE	INTERIOR CLEANOUT SCHEDULE
DEMOLITION KEYNOTE			SH	SHOWER	
RENOVATION KEYNOTE			SK	STAINLESS STEEL SINK	
CONNECT TO EXISTING			SR#	SANITARY RISER NO.	
LIMITS OF DEMOLITION			TYP	TYPICAL	
ACCESS PANEL			TMV	THERMOSTATIC MIXING VALVE	
MIN. INVERT ELEVATION			UNO	UNLESS NOTED OTHERWISE	
			UR	URINAL	
			VTR	VENT THROUGH ROOF	
			WC	WATER CLOSET	
			WCO	WALL CLEAN OUT	
			WH	WALL HYDRANT	
			WHA	WATER HAMMER ARRESTER	
			WHY	FREEZE PROOF WALL HYDRANT	
			WMB	WASH MACHINE BOX	
			XT	EXPANSION TANK	

POTABLE WATER

- 1.ALL POTABLE WATER PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH THE PLUMBING CODE AND VERIFIED BY WRITTEN REPORT FROM THE STATE BOARD OF HEALTH.
- 2.ALL PLUMBING PIPING SHALL BE CONCEALED IN FLOORS, WALLS, OR ABOVE CEILINGS AS APPLICABLE EXCEPT AT IMMEDIATE FIXTURE.
- 3.PROVIDE HANGERS FOR SUPPLY PIPING AT A MAXIMUM SPACING OF 3 FEET OR AS LISTED IN FBC-P 306.5.
- 4.PROVIDE WATER HAMMER ARRESTORS AT EACH FIXTURE, QUICK CLOSING VALVE, OR BATTERY OF FIXTURES WHERE REQUIRED AND PER FBC-P 604.9. ARRESTORS SHALL BE FACTORY FABRICATED. SIZED PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P D1 WH-201. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER HAMMER ARRESTORS AS SPECIFIED.
- 5.BALL VALVES 1/4" THRU 2" SHALL BE TWO PIECE - 600 WOG, TEFLON SEATS, ANSI 316 STAINLESS STEEL BALL AND STEM (EXTENSION STEM ON INSULATED HOT WATER AND TEMPERED HOT WATER), BRONZE BODY WITH THREADED OR SOLDER ENDS.
- 6.DURING CONSTRUCTION ALL PRESSURE PIPING SYSTEMS SHALL RECEIVE A HYDROSTATIC TEST OF 1-1/2 TIMES THE OPERATING PRESSURE FOR A PERIOD OF NOT LESS THAN EIGHT (8) HOURS. NO LEAKAGE EVIDENT DURING THE TEST PERIOD IS ALLOWED. NOTIFY THE ARCHITECT AND ENGINEER OF RECORD 24 HOURS IN ADVANCE OF ANY TESTING SO THAT THEY MAY OBSERVE IF THE NEED IS CALLED FOR. PIPING SYSTEMS, EQUIPMENT, SPECIALTIES, PUMPS, TRAPS, VALVES, STRAINERS, ETC. SHALL BE INSPECTED AND TESTED FOR PROPER FUNCTIONALITY AT THE CONCLUSION OF CONSTRUCTION AND ANY LEAKAGE OR MALFUNCTIONS SHALL BE REPAIRED.
- 7.PROVIDE ISOLATION AND ASSE1024 DUAL CHECK BACKFLOW PREVENTION BEFORE AND BEVERAGE CONNECTION, CARBONATED DEVICE(ASSE1022), STERILIZATION EQUIPMENT, AND ICE MACHINE SUPPLY, PER FBC-P608.3 AND 608.17.
- 8.MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE, UNLESS OTHERWISE NOTED.
- 9.ALL PRESSURE PIPING SHALL BE INSTALLED ABOVE CEILING AND IN WALLS UNLESS NOTED OTHERWISE.
- 10.BELOW GRADE
 - 10.1.PIPING SHALL BE COATED WITH HEAVY TROWEL GRADE LION OIL CO. NOKORODE SEALKOTE OR APPROVED EQUAL.
 - 10.2.UNDERGROUND SERVICE PIPING SHALL BE COPPER TUBING.
- 11.PIPING SPECIFICATIONS
 - 11.1.ABOVE GRADE DOMESTIC COLD WATER SUPPLY PIPING SHALL BE EITHER HIGH-IMPACT CPVC WITH SOLVENT WELD FITTINGS OR TYPE L HARD COPPER TUBING, AS PERMITTED BY CODE AND PROJECT SPECIFICATIONS.
 - 11.1.1.PROVIDE TRANSITION FITTINGS AS REQUIRED TO INSTALL VALVES, FIXTURE STOPS, EQUIPMENT AND OTHER COMPONENTS.
 - 11.1.2.ALL PIPES AND FITTINGS SHALL CONFORM TO ASTM 1784.
 - 11.2.PIPING LOCATED IN RETURN AIR PLENUMS SHALL BE TYPE L HARD COPPER TUBE OR CPVC WITH 1" THICK FIRE WRAP INSULATION SEALED TO PROVIDE FS/SD=25/50.
 - 11.3.EXPOSED PIPING SHALL BE TYPE L HARD COPPER TUBE PAINTED TO MATCH ADJACENT ARCHITECTURAL SURFACE.
- 12.INSULATION SPECIFICATIONS
 - 12.1.INSULATE COLD WATER SUPPLY PIPING IN EXTERIOR WALLS AND ATTIC AS WELL AS ALL HOT WATER WITH 1" IMCOLOCK PRE-SLIT, PRE-GLUED INSULATION. INSULATE FITTINGS WITH MITERED CUT PIECES OF IMCOLOCK, 1" INSULATION.
 - 12.2.THERE SHALL BE NO EXPOSED HOT WATER SUPPLY PIPING EXCEPT WITHIN MECHANICAL OR EQUIPMENT ROOMS.
 - 12.3.PIPING UNDER HANDICAPPED LAVATORIES SHALL BE INSULATED PER AMERICANS WITH DISABILITIES ACT WITH FACTORY FABRICATED SEAMLESS MICROBIAL PVC RESIN INSULATION.
- 13.EXPOSED PIPING
 - 13.1.ALL EXPOSED PIPING SHALL BE COORDINATED WITH OTHER ABOVE-CEILING SYSTEMS AND ROUTED TO AVOID CONFLICTS EVEN IF ITS ROUTING IS DIFFERENT THAN THAT WHICH IS SHOWN ON THESE PLANS.
 - 13.2.ALL EXPOSED PIPING SHALL BE INSTALLED NEAT AND ORDERLY. PAINT TO MATCH ADJACENT ARCHITECTURAL SURFACE OR AS DIRECTED BY ARCHITECT.

ABBREVIATIONS		CODE REFERENCE (ALL MAY NOT APPLY)	
AAV	AIR ADMITTANCE VALVE	FBC, BUILDING	FLORIDA BUILDING CODE 8TH EDITION
AFF	ABOVE FINISHED FLOOR	FBC, PLUMBING	FLORIDA BUILDING CODE 8TH EDITION
AHAP	AS HIGH AS POSSIBLE	FBC, EXISTING	FLORIDA BUILDING CODE 8TH EDITION
BFP	BACK FLOW PREVENTOR	FBC, FUEL GAS	FLORIDA BUILDING CODE 8TH EDITION
BFF	BELOW FLOOR	FBC, ENERGY CONSERVATION	FLORIDA BUILDING CODE 8TH EDITION
BFG	BELOW FINISHED FLOOR	FFPC	FLORIDA FIRE PREVENTION CODE, 2023 8TH EDITION
BG	BELOW GRADE	NFPA 54	NATIONAL FUEL GAS CODE
BOD	BASIS OF DESIGN	NFPA 101	LIFE SAFETY CODE
C	CONDENSATE	NFPA 101A	GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY
CO	CLEAN OUT	NFPA 101B	CODE FOR MEANS OF EGRESS FOR BUILDINGS AND STRUCTURES
CVV	COMBINATION WASTE AND VENT	NFPA 900	BUILDING ENERGY CODE
DCW	DOMESTIC COLD WATER	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
DHW	DOMESTIC HOT WATER	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
DN	DOWN	ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ECO	EXTERIOR CLEANOUT	ADA	AMERICANS WITH DISABILITIES ACT
EWC	ELECTRIC WATER COOLER	UL	UNDERWRITERS LABORATORIES
EWB	ELECTRIC WATER HEATER		
EX	EXISTING		
FC	FLOW CONTROL VALVE		
FCO	FLOOR CLEANOUT		
FD	FLOOR DRAIN		
GDW	GAS WATER HEATER		
HB	HOSE BIBB		
HDB	HUB DRAIN		
HWR	HOT WATER RETURN		
IE	INVERT ELEVATION		
IM	ICE MAKER VALVE BOX		
IRP	IN-LINE RECIRCULATION PUMP		
L	LAVATORY		
MS	MOP SINK		
PF	PLUMBING FIXTURE		
PR#	PRESSURE RISER NO.		
SAN	SANITARY WASTE		
SH	SHOWER		
SK	STAINLESS STEEL SINK		
SR#	SANITARY RISER NO.		
TYP	TYPICAL		
TMV	THERMOSTATIC MIXING VALVE		
UNO	UNLESS NOTED OTHERWISE		
UR	URINAL		
VTR	VENT THROUGH ROOF		
WC	WATER CLOSET		
WCO	WALL CLEAN OUT		
WH	WALL HYDRANT		
WHA	WATER HAMMER ARRESTER		
WHY	FREEZE PROOF WALL HYDRANT		
WMB	WASH MACHINE BOX		
XT	EXPANSION TANK		

LOCATION	TYPE	JR SMITH M#
FLOOR (FCO)		4028C
(CAST IRON BODY, BRONZE PLUG, NICKEL BRONZE TOP)		
WALL (WCO)		4532S
(CAST IRON BODY, BRONZE PLUG STAINLESS STEEL COVER)		
EXPOSED (TCO)	HORIZONTAL	4400C
(CAST IRON BODY, BRONZE PLUG, THREADED CAP)	VERTICAL	4512S
EXTERIOR CLEANOUT SCHEDULE		
	TYPE	JR SMITH M#
ONE WAY(CAST IRON BODY, BRONZE PLUG, CAST IRON TOP TAPER THREAD)		4223L
TWO WAY (CAST IRON BODY, BRONZE PLUG, CAST IRON TOP TAPER THREAD)		4223L

WATER HAMMER ARRESTOR SCHEDULE						
FIXTURE UNIT	1-11	12-32	33-60	61-113	114-154	155-330
JR SMITH M#	5005	5010	5020	5030	5040	5050

1. USE OF AN APPROVAL STAMP ON SUBMITTAL DOCUMENTS CERTIFIES THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS.
2. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES, OR SIMILAR SUBMITTAL ITEMS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES, OR SIMILAR SUBMITTAL ITEMS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.
3. CONTRACTOR SHALL SUPPLY TO THE ARCHITECT SUBMITTALS ON THE FOLLOWING WHERE APPLICABLE (ALL MAY NOT APPLY):
 - A. PLUMBING FIXTURES
 - B. PIPE AND FITTINGS
 - C. INSULATION MATERIALS
 - D. PLUMBING ACCESSORIES AND SPECIALTIES
 - E. VALVES
 - F. HOT WATER HEATER

1. LOCATIONS OF ANY WASTE AND SUPPLY PIPING SHOWN ARE ONLY APPROXIMATE. THE PLUMBING CONTRACTOR SHALL VERIFY THESE LOCATIONS BEFORE PROCEEDING WITH WORK.
2. ALL PLUMBING PIPE SHALL BE RUN STRAIGHT, SQUARE, AND LEVEL. NO SAGGING OF PLUMBING PIPING SHALL BE ACCEPTED.
3. ALL DRAINAGE PIPING 3" AND LARGER SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT. PIPING 2-1/2" AND SMALLER SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS OTHERWISE NOTED.
4. VENT PIPING SHOWN ON FLOOR PLAN IS ONLY INDICATIVE EXCEPT FOR VTR LOCATIONS.
5. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
6. VALVES AND FITTINGS SHALL BE OF THE SAME SIZE AS THE LINE IN WHICH THEY ARE INSTALLED.
7. ALL WATER SANITARY WASTE, VENT AND SUPPLY PIPING SHALL BE INSTALLED AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGE IN SIZING.
8. SEE ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, DIMENSIONS AND ADDITIONAL REQUIREMENTS NOT COVERED ON THESE DRAWINGS.
9. PIPING SHALL NOT BE RUN ABOVE ELECTRICAL OR SERVER EQUIPMENT. COORDINATE WITH FIELD CONDITIONS.
10. DO NOT PENETRATE WALL FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES. WHERE ABSOLUTELY NECESSARY, ALL PIPES PENETRATING BEARING WALL OR FOOTING MUST BE SLEEVED AND IN A LOCATION APPROVED BY THE STRUCTURAL ENGINEER.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES OR ALL FIXTURES INCLUDED IN THESE CONTRACT DOCUMENTS.
12. WALL BRACKETS, HANGERS, SUPPORTS, ETC. SHALL BE PROVIDED WHERE REQUIRED IN ACCORDANCE WITH THE BEST STANDARD PRACTICE OF THE TRADE AND AS PER CODE. ADDITIONAL SUPPORTS SHALL BE PROVIDED TO TRANSMIT LOADS TO THE MAIN STRUCTURE WHERE REQUIRED. CPVC PIPING SUPPORTS SHALL BE 3'-0" ON CENTER FOR 1/2" THRU 1" AND 4'-0" ON CENTER FOR 1-1/2" AND LARGER. ALL EXPOSED SUPPORTS SHALL BE HOT DIPPED GALVANIZED OR FIBERGLASS REINFORCED "UNISTRUT" TYPE INCLUDING HARDWARE.
13. POWER WIRING, PANELS, TRANSFORMERS, AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL CONTROL WIRING, RELAYS, AND PANELS SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR. ALL MOTOR STARTERS REQUIRED FOR ANY PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
14. INSTALL ACCESS PANELS (MINIMUM 18x18") WHERE EQUIPMENT REQUIRING ACCESS RESIDES ABOVE AN INACCESSIBLE CEILING TYPE.
15. ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, CLEANOUTS, ETC., CONCEALED IN WALLS SHALL BE PROVIDED WITH AN ACCESS PANEL, ZURN MODEL ZN-1460 OR APPROVED EQUAL.
16. ALL CONCEALED PIPING IN CHASE AREAS SHALL BE SUPPORTED WITH A PIPING SUPPORT SYSTEM, SUMNER POSIFIX, STAKFIX AND CHANNEL OR APPROVED EQUAL.
17. PURGE, CLEAN, DISINFECT & TEST WATER PIPING SYSTEMS. SUBMIT REPORT & WATER SAMPLES TO A.H.J. USE PROCEDURE PRESCRIBED BY A.H.J., OR IF METHOD NOT PRESCRIBED USE AWWA C651 OR AWWA C652.
18. CONTRACTOR SHALL INSTALL WATER HAMMER ARRESTORS AT ALL QUICK CLOSING VALVES. REFER TO FPC 604.9.

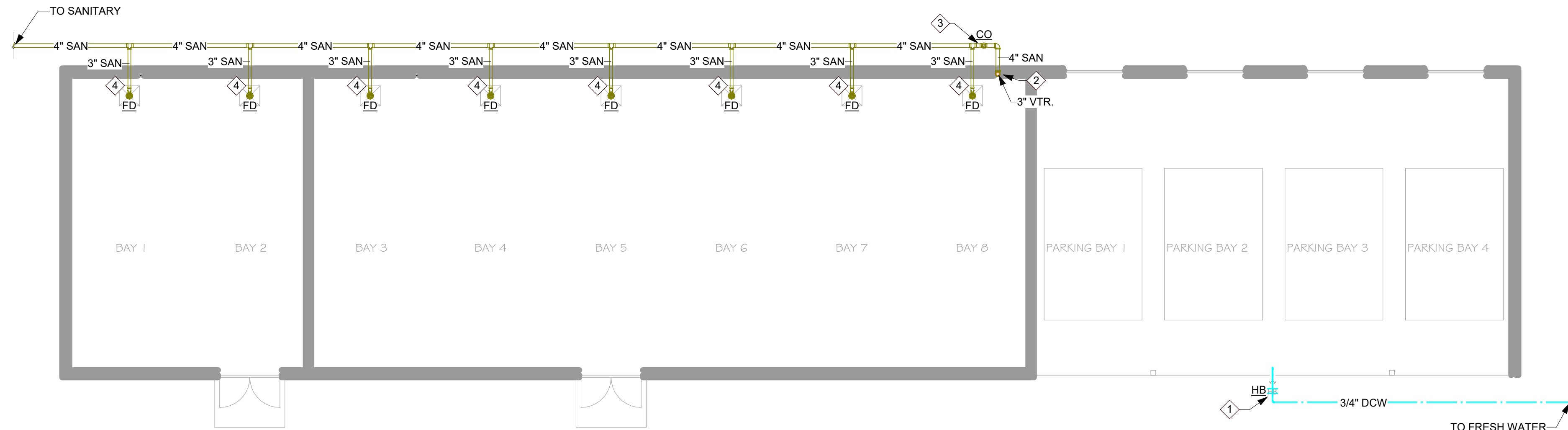
LOCATION	TYPE	JR SMITH M#
FLOOR (FCO)		4028C
(CAST IRON BODY, BRONZE PLUG, NICKEL BRONZE TOP)		
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	TYPE	JR SMITH M#
ONE WAY(CAST IRON BODY, BRONZE PLUG, CAST IRON TOP TAPER THREAD)		4223L
TWO WAY (CAST IRON BODY, BRONZE PLUG, CAST IRON TOP TAPER THREAD)		4223L

- 1.GRAVITY FLOW SYSTEMS HAVE SPACE PRIORITY FOR SLOPING PIPES.
- 2.SLOPING PIPES SHALL BE STARTED AT THE HIGHEST POINT POSSIBLE.
3. ALL SOIL, WASTE, AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND LOCAL PERMITTING AUTHORITIES REQUIREMENTS.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL FLOOR DRAIN AND WATER SUPPLY LOCATIONS BEFORE POURING SLABS.
5. CONDENSATE, SANITARY AND VENT PIPING SHALL BE COLLECTED AND TERMINATED AT A POINT SHOWN ON THE DRAWINGS.
 - 5.1. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONDENSATE PIPES AFTER AIR UNIT TRAP, MECHANICAL CONTRACTOR RESPONSIBLE FOR FIRST 12" OF CONDENSATE AND TRAP.
6. INVERT SHOWN ON PLANS IS AN ESTIMATE OF MINIMUM INVERT CALCULATED USING ENGINEERING ESTIMATES OF SLOPE, FITTING DIMENSIONS AND OTHER FACTORS THAT MAY NOT MATCH THE EXACT FIELD CONDITIONS. DUE DILIGENCE HAS BEEN PUT FORTH TO COORDINATE THIS WITH THE SITE CONNECTIONS BUT IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL SITE CONNECTION INVERT AND ITS CONNECTION TO THE BUILDING SERVICE PIPING. ANY ISSUES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR PRIOR TO COMMENCING WITH INSTALLATION OF UNDERGROUND PIPING.
7. WHEN REQUIRED BY CODE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL AN AIR GAP SERVING INDIVIDUAL FIXTURES, DEVICES, OR APPLIANCES.
8. ALL SANITARY WASTE LINES SHALL BE INSTALLED UNDER THE FLOOR SLAB, UNLESS OTHERWISE NOTED. VENT PIPING SHALL BE INSTALLED ABOVE CEILING AND IN WALLS UNLESS NOTED OTHERWISE.
9. FLOOR DRAIN TRAPS SHALL BE DEEP SEAL (MIN. 4"). FURNISH AND INSTALL TRAP PRIMERS, WHERE INDICATED, OR IF LOCAL CODES REQUIRE THEM. VERIFY AND INCLUDE IN BID. PER FBC-P 1002.4 ANY TRAPPED FIXTURE SUBJECT TO EVAPORATION SHALL BE FURNISHED WITH 1/2" TRAP PRIMER CONNECTION TO NEAREST DCW WATER SUPPLY LINE, WITH VALVE CONFORMING TO ASSE1018. USE SELF SEAL RUBBER TYPE THAT CONFORM TO ASSE1044 FOR REMOTE DRAINS THAT ARE OVER 20' FROM THE WATER SUPPLY.
10. SIZE AND LOCATION OF CLEANOUTS SHALL BE IN ACCORDANCE WITH FLORIDA PLUMBING CODE AND ALL JURISDICTIONAL REGULATIONS.
11. PIPING SPECIFICATIONS
 - 11.1. CONDENSATE, DOMESTIC WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC/DVV PIPE WITH SOLVENT WELD DRAINAGE FITTINGS CONFORMING TO ASTM D-2665.
 - 11.2. VENT PIPING SHALL BE MINIMUM OF 2", UNLESS NOTED OTHERWISE.
 - 11.3. PIPING INSTALLED WITHIN A RETURN AIR PLENUM SHALL BE CAST IRON WITH HUB AND SPIGOT FITTINGS OR PVC PIPING WITH 1/2" THICK FIRE WRAP INSULATION SEALED TO PROVIDE FS/SD=25/50.
 - 11.4. UNLESS NOTED OTHERWISE, ASSUME ALL COMBINED DISCHARGE CONNECTIONS ARE WYE TYPE.
12. EXPOSED PIPING
 - 12.1. ALL EXPOSED PIPING SHALL BE COORDINATED WITH OTHER ABOVE-CEILING SYSTEMS AND ROUTED TO AVOID CONFLICTS EVEN IF ITS ROUTING IS DIFFERENT THAN WHAT IS SHOWN ON THESE PLANS.
 - 12.2. ALL EXPOSED PIPING SHALL BE INSTALLED NEAT AND ORDERLY. PAINT TO MATCH ADJACENT ARCHITECTURAL SURFACE OR AS DIRECTED BY ARCHITECT.
13. THE TERMINATION OF CONCEALED CONDENSATE PIPING SHALL BE MARKED TO INDICATE WHETHER THE PIPING IS CONNECTED TO THE PRIMARY OR SECONDARY DRAIN, PER FBC-M 307.1.1 & 307.2.3.3.

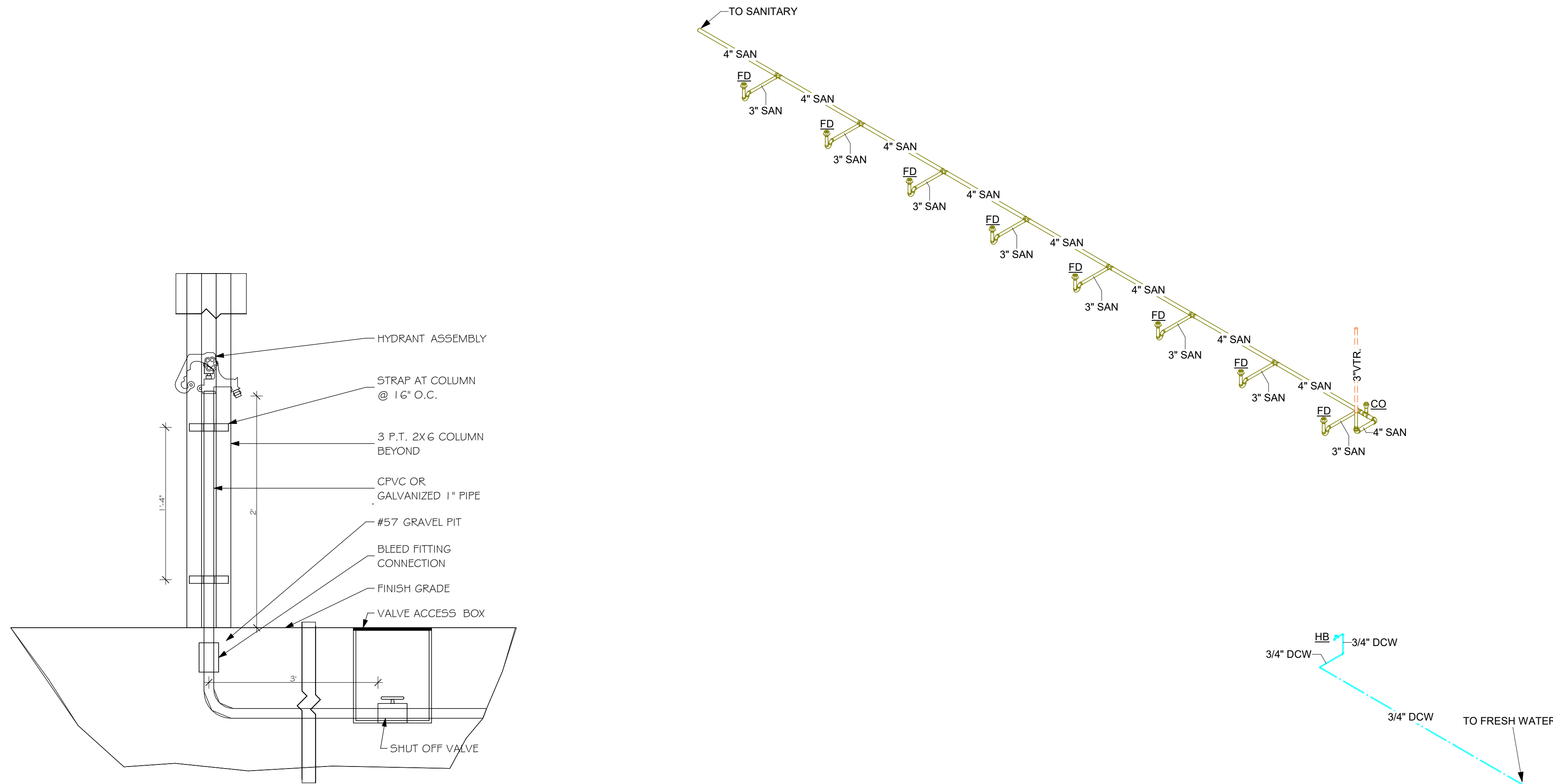
1. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF DOCUMENTS.
2. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE USE OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE THEMSELVES AWARE OF PROJECT CONDITIONS AND OWNER REQUIREMENTS PRIOR TO PROCUREMENT OF EQUIPMENT AND SERVICES. CHANGES IN PROJECT COST WILL NOT BE GRANTED DUE TO FIELD CONFLICTS AND OR PROJECT CONDITIONS.
3. THIS SET OF DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED A SET OF CONSTRUCTION DOCUMENTS UNLESS A SIGNATURE AND DATE ARE AFFIXED TO THE DRAWINGS AND SPECIFICATIONS BY THE ENGINEER OF RECORD OR CHARGE OF THE GIVEN DISCIPLINE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS EMBOSSED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ELECTRONIC COPIES.
4. CONFLICTS BETWEEN THIS SET OF DRAWINGS AND THE CONTRACT SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OF RECORD. THE SUB CONTRACTOR DOES NOT HAVE THE AUTHORITY TO INTERPRET CONFLICTS AND RESOLVE ISSUES WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.
5. ANY CONFLICTS IN THE FIELD OR WITHIN THESE DOCUMENTS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER OF RECORD ON THE CONTRACTOR'S STANDARD LETTERHEAD. WRITTEN DIRECTION RESOLVING CONFLICT WILL BE ISSUED BY THE ENGINEER OF RECORD.
6. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING OR OTHER WALL MOUNTED FURNISHINGS.
7. PLANS ARE DIAGRAMMATIC IN NATURE AND INTENDED TO SHOW THE GENERAL SCOPE OF THE WORK TO BE PERFORMED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.
8. DUE TO THE SMALL SCALE OF THE DRAWINGS, AND TO UNFORESEEN JOB CONDITIONS, ALL REQUIRED OFFSETS, TRANSITIONS AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AT NO ADDITIONAL COST.
9. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND EXISTING EQUIPMENT TO ENSURE THE EQUIPMENT SPECIFIED WILL WORK FOR THE SPACES PROVIDED. FINAL DIMENSIONS OF SYSTEMS SHOWN ON THESE PLANS SHALL BE COORDINATED IN THE FIELD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROVIDING OFFSETS AND TRANSITIONS TO FIT IN SPACES PROVIDED AND AT NO COST TO THE OWNER.
10. THE CONTRACTOR IS RESPONSIBLE FOR ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED TO BRING INTO THE BUILDING AND EQUIPMENT ROOMS.
11. ALL WORK PERFORMED AS PART OF THIS PROJECT SHALL BE PERFORMED BY EXPERIENCED TRADESMEN, TRAINED, EXPERIENCED, AND SKILLED IN THE TASKS INCIDENTAL TO THE PROJECT.
12. ALL WORK SHALL COMPLY WITH APPLICABLE OSHA AND EPA REGULATIONS AND GUIDELINES.
13. THE CONTRACTOR PERFORMING WORK ON THIS PROJECT WILL BE RESPONSIBLE FOR REGULARLY CLEANING THE WORK AREA OF ANY DEBRIS ASSOCIATED WITH THE WORK. BEING PERFORMED, THE SITE SHALL BE CLEAN OF ALL CONSTRUCTION DEBRIS AT THE COMPLETION OF THE JOB, BEFORE FINAL PAYMENT IS MADE.
14. REASONABLE PRECAUTIONS SHALL BE MADE FOR SAFETY AND HEALTH INCLUDING BUT NOT LIMITED TO WARNING SIGNS, SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS.
15. COORDINATE ALL DEMOLITION, CLEANING AND CONSTRUCTION WORK. SUB CONTRACTOR SHALL PROVIDE GENERAL CONTRACTOR A FULL CONSTRUCTION SCHEDULE.
16. CONTRACTOR SHALL BE HELD TO PROVIDED SCHEDULE. THEY SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT MANPOWER AND EQUIPMENT TO COMPLETE THE WORK IN THE TIME INDICATED.
17. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS. THE LOCATION OF STORAGE SHALL BE RESTRICTED SPECIFICALLY TO THE AREA ALLOTTED BY THE OWNER.
18. ALL ITEMS INSTALLED UNDER THE SCOPE OF THIS PROJECT SHALL BE NEW, CLEAN, AND FREE OF DEFECTS.
19. IF DRAWING CHANGES ARE NEEDED FOR INSPECTION DUE TO FIELD CHANGES MADE BY THE CONTRACTOR WITHOUT PRIOR APPROVAL OF THE ENGINEER AND AGREED UPON TERMS, THEN THE CONTRACTOR SHALL PAY HOURLY RATES TO THE ENGINEER OF RECORD FOR MAKING NECESSARY CHANGES.
20. SUPPORTS, HANGERS, WIRING AND PIPING SHALL BE INSTALLED IN A NEAT FASHION AND IN AN ORDERLY APPEARANCE.
21. FOR LOCAL WIND LOADS, REFER TO MECHANICAL DESIGN CRITERIA
22. PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.
23. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL PARTITIONS LABELED WITH A SPECIAL LISTING ON THE ARCHITECTURAL PLANS. THIS INCLUDES FIRE, SMOKE ACOUSTICAL AND OTHER UL WALL OR CEILING ASSEMBLIES.
24. STRUCTURAL PENETRATIONS INCLUDING BUT NOT LIMITED TO WALL, FLOOR OR BEAM SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL BEAM SLEEVES AND REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
25. CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY THE MATERIAL SUPPLIES AND MANUFACTURERS.
26. VALUE ENGINEERING OR CHANGES TO PLANS MUST BE APPROVED BY THE ENGINEER OF RECORD AND RESUBMITTED THROUGH THE BUILDING DEPARTMENT PRIOR TO BEING INSTALLED.
27. FLOOR CLEANOUTS SHALL BE LOCATED NO MORE THAN 100 FEET APART IN HORIZONTAL DRAINAGE PIPES. CLEANOUTS SHALL BE LOCATED AT EACH CHANGE OF DIRECTION GREATER THAN 45 DEGREES.
28. CLEANOUTS SHALL BE LOCATED AT THE BASE OF EACH WASTE STACK. INSTALL CLEANOUTS IN CONCEALED LOCATIONS.
29. WALL CLEANOUTS ARE REQUIRED IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR THAT IS MORE THAN 64" TALL. SEAL CLEANOUTS BEFORE AND AFTER GROUT.
30. WALL CLEANOUTS SHALL BE INSTALLED IN CONCEALED LOCATIONS WITH OPENINGS IN A FINISHED WALL WITHIN 1.5" OF THE FINISHED WALL SURFACE.

1. GRAVITY FLOW SYSTEMS HAVE SPACE PRIORITY FOR SLOPING PIPES.
2. SLOPING PIPES SHALL BE STARTED AT THE HIGHEST POINT POSSIBLE.
3. ALL SOIL, WASTE, AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND LOCAL PERMITTING AUTHORITIES REQUIREMENTS.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL FLOOR DRAIN AND WATER SUPPLY LOCATIONS BEFORE POURING SLABS.
5. CONDENSATE, SANITARY AND VENT PIPING SHALL BE COLLECTED AND TERMINATED AT A POINT SHOWN ON THE DRAWINGS.
 - 5.1. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONDENSATE PIPES AFTER AIR UNIT TRAP, MECHANICAL CONTRACTOR RESPONSIBLE FOR FIRST 12" OF CONDENSATE AND TRAP.
6. INVERT SHOWN ON PLANS IS AN ESTIMATE OF MINIMUM INVERT CALCULATED USING ENGINEERING ESTIMATES OF SLOPE, FITTING DIMENSIONS AND OTHER FACTORS THAT MAY NOT MATCH THE EXACT FIELD CONDITIONS. DUE DILIGENCE HAS BEEN PUT FORTH TO COORDINATE THIS WITH THE SITE CONNECTIONS BUT IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL SITE CONNECTION INVERT AND ITS CONNECTION TO THE BUILDING SERVICE PIPING. ANY ISSUES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR PRIOR TO COMMENCING WITH INSTALLATION OF UNDERGROUND PIPING.
7. WHEN REQUIRED BY CODE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL AN AIR GAP SERVING INDIVIDUAL FIXTURES, DEVICES, OR APPLIANCES.
8. ALL SANITARY WASTE LINES SHALL BE INSTALLED UNDER THE FLOOR SLAB, UNLESS OTHERWISE NOTED. VENT PIPING SHALL BE INSTALLED ABOVE CEILING AND IN WALLS UNLESS NOTED OTHERWISE.
9. FLOOR DRAIN TRAPS SHALL BE DEEP SEAL (MIN. 4"). FURNISH AND INSTALL TRAP PRIMERS, WHERE INDICATED, OR IF LOCAL CODES REQUIRE THEM. VERIFY AND INCLUDE IN BID. PER FBC-P 1002.4 ANY TRAPPED FIXTURE SUBJECT TO EVAPORATION SHALL BE FURNISHED WITH 1/2" TRAP PRIMER CONNECTION TO NEAREST DCW WATER SUPPLY LINE, WITH VALVE CONFORMING TO ASSE1018. USE SELF SEAL RUBBER TYPE THAT CONFORM TO ASSE1044 FOR REMOTE DRAINS THAT ARE OVER 20' FROM THE WATER SUPPLY.
10. SIZE AND LOCATION OF CLEANOUTS SHALL BE IN ACCORDANCE WITH FLORIDA PLUMBING CODE AND ALL JURISDICTIONAL REGULATIONS.
11. PIPING SPECIFICATIONS
 - 11.1. CONDENSATE, DOMESTIC WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC/DVV PIPE WITH SOLVENT WELD DRAINAGE FITTINGS CONFORMING TO ASTM D-2665.
 - 11.2. VENT PIPING SHALL BE MINIMUM OF 2", UNLESS NOTED OTHERWISE.
 - 11.3. PIPING INSTALLED WITHIN A RETURN AIR PLENUM SHALL BE CAST IRON WITH HUB AND SPIGOT FITTINGS OR PVC PIPING WITH 1/2" THICK FIRE WRAP INSULATION SEALED TO PROVIDE FS/SD=25/50.
 - 11.4. UNLESS NOTED OTHERWISE, ASSUME ALL COMBINED DISCHARGE CONNECTIONS ARE WYE TYPE.
12. EXPOSED PIPING
 - 12.1. ALL EXPOSED PIPING SHALL BE COORDINATED WITH OTHER ABOVE-CEILING SYSTEMS AND ROUTED TO AVOID CONFLICTS EVEN IF ITS ROUTING IS DIFFERENT THAN WHAT IS SHOWN ON THESE PLANS.
 - 12.2. ALL EXPOSED PIPING SHALL BE INSTALLED NEAT AND ORDERLY. PAINT TO MATCH ADJACENT ARCHITECTURAL SURFACE OR AS DIRECTED BY ARCHITECT.
13. THE TERMINATION OF CONCEALED CONDENSATE PIPING SHALL BE MARKED TO INDICATE WHETHER THE PIPING IS CONNECTED TO THE PRIMARY OR SECONDARY DRAIN, PER FBC-M 307.1.1 & 307.2.3.3.

PLUMBING SHEET INDEX		
SHEET NUMBER		SHEET NAME
P001		PLUMBING NOTES &



1 FLOOR PLAN - SANITARY
Scale: 1/8" = 1'-0"



2 TYPICAL HYDRANT DETAIL
No Scale

3 SANITARY RISER
No Scale

PLUMBING GENERAL NOTES

1. INSTALL ALL WORK IN ACCORDANCE WITH THE FLORIDA PLUMBING CODE AND LOCAL PLUMBING CODES. WHERE CONFLICTS OCCUR BETWEEN CODES AND BETWEEN THE CONSTRUCTION DOCUMENTS AND CODES, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
2. ALL MISCELLANEOUS EQUIPMENT TO BE FURNISHED UNDER OTHER SECTIONS OF THE SPECIFICATIONS THAT REQUIRE PIPING OR DUCT CONNECTIONS SHALL BE RECEIVED AND SET WITH ROUGH-IN AND FINAL CONNECTIONS MADE UNDER THESE SECTIONS.
3. PRESSURE TEST ALL WATER PIPING SYSTEMS AT 150% OF NORMAL WORKING PRESSURE.
4. ALL COPPER PRESSURE PIPE SHALL BE SOLDERED ENTIRELY WITH LEAD-FREE SOLDER.
5. INSTALLATION OF EQUIPMENT AND PIPING SHALL PROVIDE CONVENIENT ACCESS FOR MAINTENANCE.
6. ALL FLOOR DRAINS AND FLOOR SINKS SHALL HAVE MINIMUM 3" DRAIN LINES, DEEP SEAL TRAPS AND AUTOMATIC TRAP PRIMERS (MANUFACTURER: PRECISION PLUMBING PRODUCTS).
7. WATER HAMMER ARRESTERS SHALL BE INSTALLED IN ACCORDANCE WITH PDI-WH201, AS MANUFACTURED BY WADE.
8. ALL HOSE BIBBS, SILL COCKS AND/OR FAUCETS WITH HOSE CONNECTIONS SHALL HAVE A VACUUM BREAKER.
9. GRAVITY FLOW SYSTEMS HAVE SPACE PRIORITY FOR SLOPING PIPES, HOWEVER SLOPE MUST BE STARTED AT HIGHEST POINT POSSIBLE.
10. ALL WATER PIPING SUBJECT TO FREEZING SHALL BE FREEZE PROTECTED. THIS INCLUDES ALL PIPING IN UNHEATED SPACES SUCH AS EQUIPMENT ROOMS, CHASES, SOFFITS, EXTERIOR WALLS, CEILINGS, ETC.
11. INSULATE EXTERIOR ABOVE GRADE WATER PIPING WITH CELLULAR GLASS. SEE SPECS.
12. DO NOT LOCATE FLOOR DRAINS/SINKS UNDER EQUIPMENT. THE GENERAL CONTRACTOR SHALL VERIFY ALL FLOOR DRAIN AND WATER SUPPLY LOCATIONS BEFORE POURING SLABS.
13. ALL PLUMBING VENTS SHALL BE 2" MINIMUM, UNLESS NOTED OTHERWISE.
14. PROVIDE ACCESS PANEL AT EACH LOCATION WHERE A VALVE OR OTHER DEVICE REQUIRING SERVICE IS LOCATED ABOVE AN INACCESSIBLE CEILING OR INSIDE A WALL.
15. A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE, SOIL STACK OR RAIN LEADER, WHETHER SHOWN ON THE DRAWINGS OR NOT.
16. ANY PIPE THAT PASSES UNDER A FOOTING OR THROUGH A FOUNDATION WALL SHALL BE PROVIDED WITH A RELIEVING ARCH, OR A PIPE SLEEVE. SLEEVE SHALL BE BUILT INTO THE FOUNDATION WALL. THE SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL.



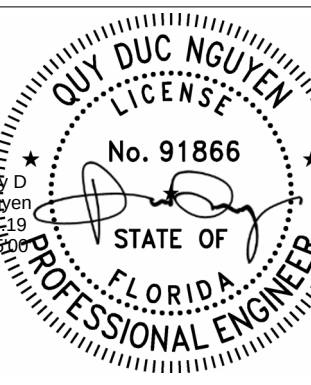
PLUMBING KEYED NOTES

- | | |
|---|---|
| 1 | PROVIDE SHUTOFF VALVES TO WALL HYDRANTS WITH VACUUM BREAKER. |
| 2 | 3" VENT PIPE RUN IN WALL AND THROUGH ROOF. |
| 3 | CONTRACTOR SHALL PROVIDE EXTERIOR CLEANOUT WHERE INDICATED. |
| 4 | INSTALL 4" FLOOR DRAINS WHERE INDICATED, WITH -1/2" SLOPE TO DRAIN. |

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FWC STORAGE BUILDING

FWC-02329180
DEPARTMENT OF MANAGEMENT SERVICES
LAKE CITY, FLORIDA

**CONSTRUCTION
DOCUMENTS**

PROJ. NO. 172224
DATE 05/22/2026
DRAWN ES
CHECKED BK
APPROVED QN
REVISION
REVISION DATE

PLUMBING FLOOR
PLAN, RISER &
DETAILS

P101



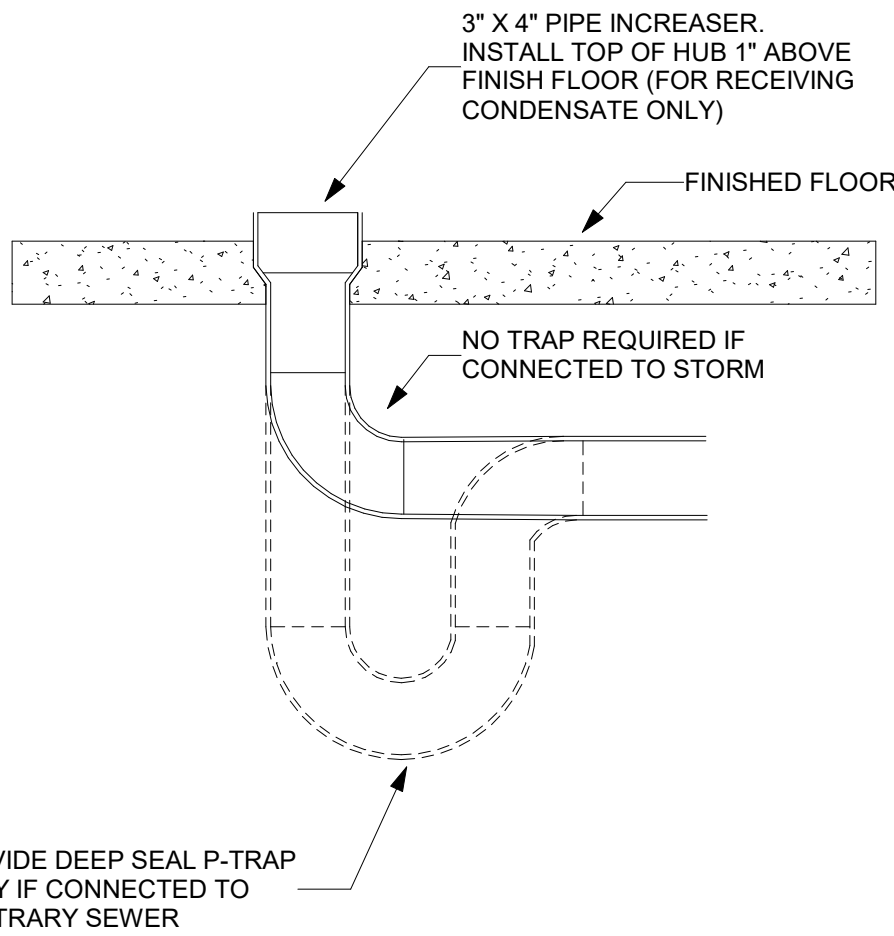
PLUMBING FIXTURE SCHEDULE									
MARK	TYPE	MANUFACTURER	MODEL	FIXTURE DESCRIPTION	CW	HW	SAN	IMAGE	COUNT
FD	FLOOR DRAIN	WATTS	FD-100-A	WATTS FD-100-A FLOOR DRAIN WITH ROUND STRAINER, 2" TO 6" PIPE SIZE, NO HUB, PUSH ON, THREADED OUTLET AND INSIDE CAULK FOR OUTLET TYPES, 5" TO 10" STRAINER,	0"	0"	3"		8
HB	WALL HYDRANT	WOODFORD	24	ANTI-SIPHON, VACUUM BREAKER PROTECTED WALL FAUCET, AND LOOSE-KEY OPERATION.					1

PLUMBING FIXTURE CALCULATION									
PFC NOTE: FIXTURE UNITS BASED ON TABLES FBC-P 709 & E103.3 (2).									
MARK	QUANTITY	CW FU	TOTAL CW FU	HW FU	TOTAL HW FU	WS FU	COMBINED WS FU	WFU	TOTAL WFU
CO	1	0	0	0	0	0	0	0	0
FD	8	0	0	0	0	0	0	3	24
HB	1	2	2	0	0	2	2	0	0
TOTAL: 10	10		2		0		2		24

BUILDING SERVICE PIPING			
TYPE	FU	SIZE	DEV LENGTH
DCW METER		X"	
DCW DISTRIB.	XX	X"	XX'
SEWAGE	XX	4"	XX'

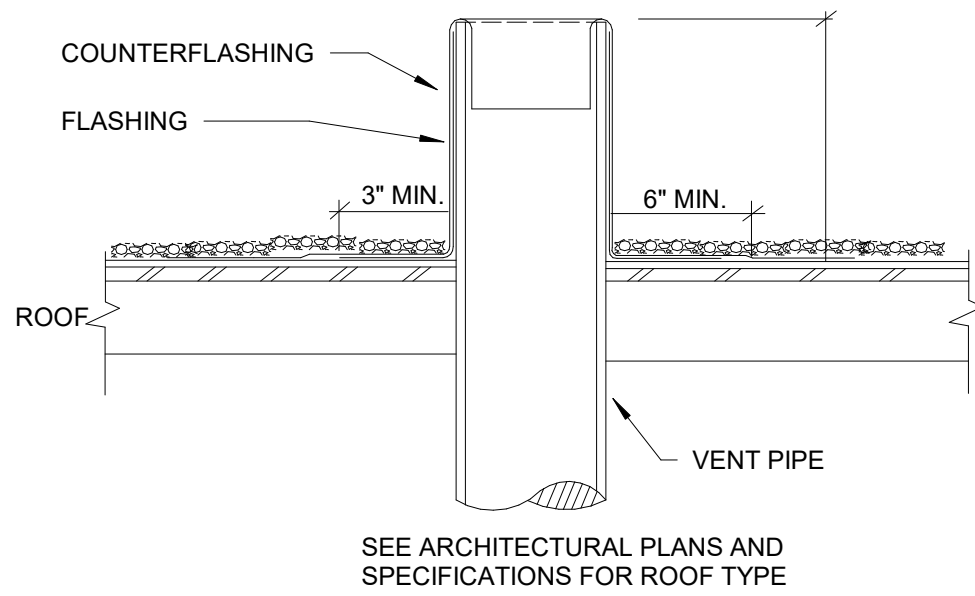
BUILDING SERVICE REMARKS:
BRING ANY ISSUES TO EOR.
RESIDUAL PRESSURE: XX PSI
WATER LINE SIZED PER FBC-P TABLE 201.1
SEWER SIZED PER FBC-P TABLE 710.1(1)

METER AND SERVICE PIPE (inches)	DISTRIBUTION PIPE (inches)	MAXIMUM DEVELOPMENT LENGTH (feet)									
Pressure Range 30 to 39 psi		40	60	80	100	150	200	250	300	400	500
3/4	1/2 ^a	2.5	2	1.5	1.5	1	1	0.5	0.5	0	0
3/4	3/4	9.5	7.5	6	5.5	4	3.5	3	2.5	2	1.5
3/4	1	32	25	20	16.5	11	9	7.8	6.5	5.5	4.5
1	1	32	32	27	21	13.5	10	8	7	5.5	5
3/4	1 1/4	32	32	32	32	30	24	20	17	13	10.5
1	1 1/4	80	80	70	61	45	34	27	22	16	12
1 1/2	1 1/4	80	80	80	75	54	40	31	25	17.5	13
1	1 1/2	87	87	87	87	84	73	64	56	45	36
1 1/2	1 1/2	151	151	151	151	117	92	79	69	54	43
2	1 1/2	151	151	151	151	128	99	83	72	56	45
1	2	87	87	87	87	87	87	87	87	87	86
1 1/2	2	275	275	275	275	258	223	196	174	144	122
2	2	365	365	365	365	318	266	229	201	160	134
2	2 1/2	533	533	533	533	533	495	448	409	353	311



1 HUB DRAIN DETAIL

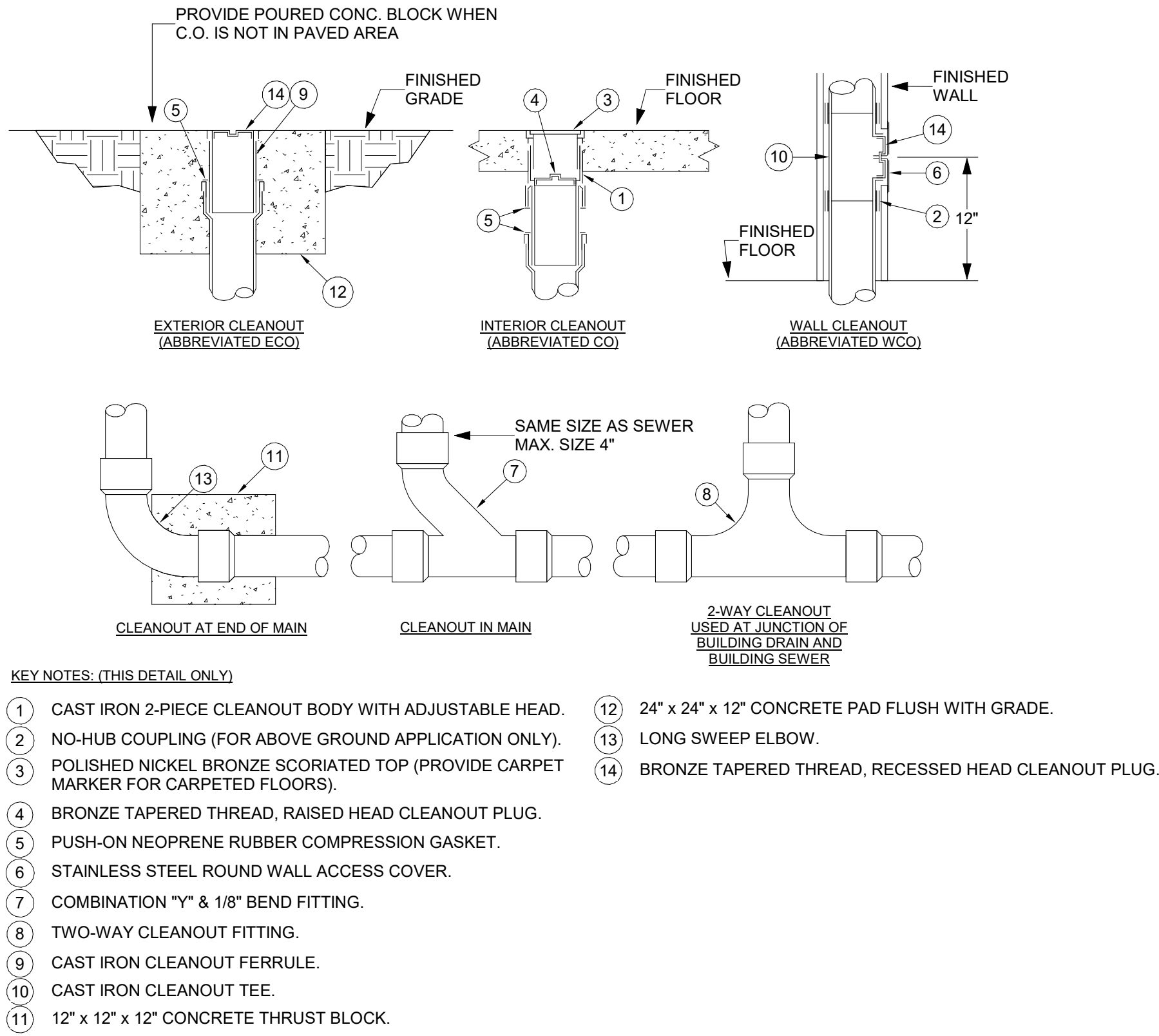
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NOTES:
1. FLASHING AND COUNTERFLASHING FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ROOFING CONTRACTOR.
2. PAINT VENT TO MATCH ROOF.

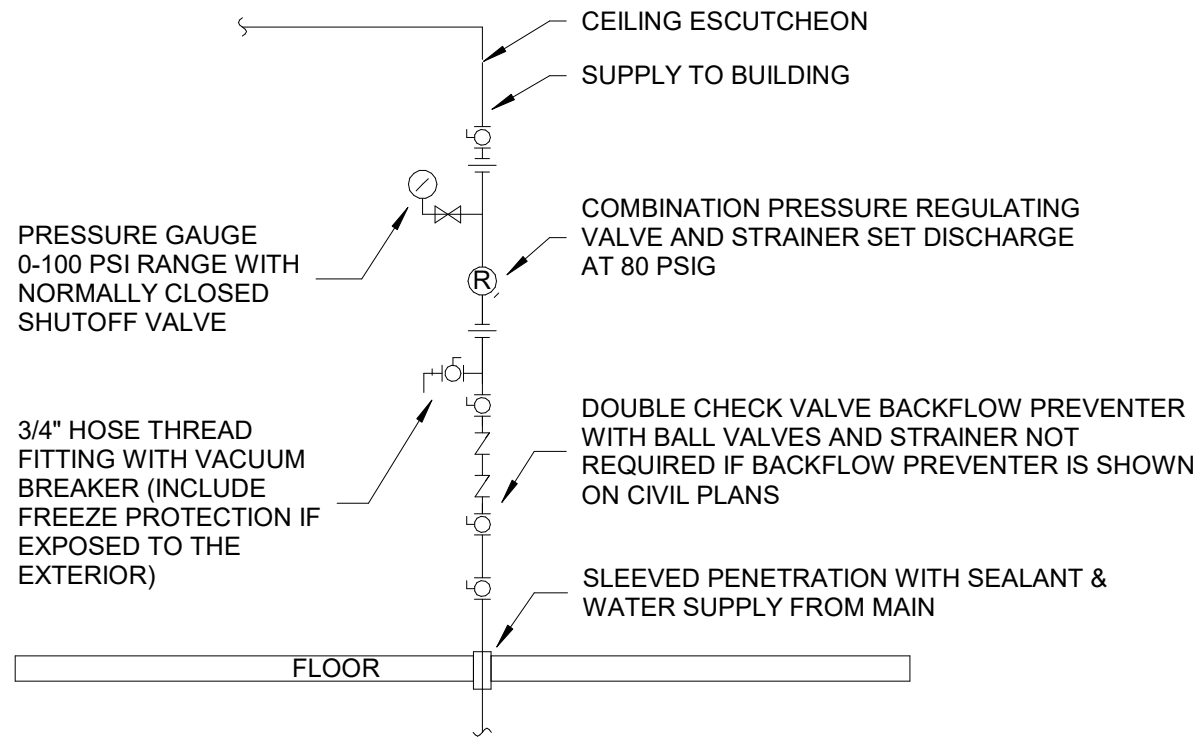
3 VENT THROUGH ROOF DETAIL

No Scale



2 TYPICAL CLEANOUT

No Scale



4 WATER SERVICE ENTRANCE DETAIL

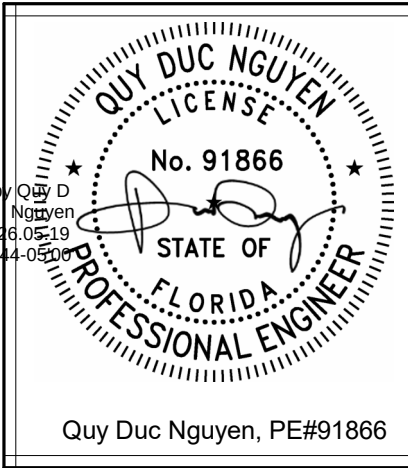
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