

PLUMBING LEGEND

	SANITARY OR WASTE PIPING ABOVE GRADE
	SANITARY OR WASTE PIPING BELOW GRADE
	GREASE WASTE PIPING
	SANITARY VENT PIPING
	INDIRECT WASTE PIPING
	CLEANOUT
	CLEANOUT AT FLOOR
	CLEANOUT AT GRADE
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	CSR WATER PIPING
	TRAP PRIMER WATER PIPING
	TEMPERED WATER PIPING
	GAS PIPING
	SERVICE PIPING BELOW FLOOR
	GATE VALVE (IN VERTICAL)
	BALL VALVE
	PLUG VALVE
	CHECK VALVE
	PRESSURE REGULATING VALVE
	GAS METER
	TRAP
	PIPE DROP

	DOUBLE CHECK VALVE W/ STRAINER
	REDUCED PRESSURE ZONE BFP W/ STRAINER
	WATER METER (MAIN UTILITY METER)
	WATER SUB-METER (WAWA BAS INTERFACE)
	TRANSPONDER (BAS WATER PRESSURE)
	PRESSURE GAUGE
	ELBOW DOWN / ELBOW UP OR RISER
	MIXING VALVE - TEMPERED WATER
	TRAP PRIMER DEVICE W/ DISTRIBUTION UNIT
	SHOCK ARRESTOR
	BOX TYPE HYDRANT (NON FREEZE)
	EQUIPMENT NUMBER
	FLOOR DRAIN
	SAFE WASTE DRAIN
	HUB STYLE DRAIN
	ROOF DRAIN
	FLOOR SINK
	EXPANSION TANK
	HOT WATER RETURN CIRCULATION PUMP
	DIRECTION OF FLOW
	DIRECTION OF PITCH

PIPING MATERIAL SCHEDULE

SERVICE	SIZE	MATERIAL	SCHEDULE/TYPE	INSULATION		REMARKS
				TYPE	THICKNESS	
COLD WATER	ALL	CPVC	-	ARMAFLEX	1/2"	-
HOT WATER	ALL	CPVC	-	ARMAFLEX	1/2"	-
SANITARY	ALL	C.I. OR PVC	NOTE 3	NONE	-	NO HUB
VENT	ALL	C.I. OR PVC	SCH. 40	NONE	-	SEE NOTE 1
ST BELOW GRADE	ALL	C.I. OR PVC	SERVICE WEIGHT	NONE	-	NO HUB
ST ABOVE GRADE	ALL	C.I. OR PVC	SERVICE WEIGHT	FG	1"	NO HUB

NOTES:
 1. WASTE AND VENT PIPING IN PLENUM SPACE SHALL BE SERVICE WEIGHT CAST IRON, NO HUB.
 2. FIBERGLASS PIPE INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN, SEMIRIGID BOARD MATERIAL WITH FACTORY-APPLIED ASJ COMPLYING WITH ASTM C 1393, OR WITH PROPERTIES SIMILAR TO ASTM C 612. NOMINAL DENSITY IS 2.5 LB/CU. FT. OR MORE. THERMAL CONDUCTIVITY (K VALUE) AT 100 DEG. F (88 DEG. C) IS 0.29 BTU X IN./H X SQ.FT. X DEG. F (0.042 W/M X K) OR LESS. ALL SERVICE JACKET. (ASJ) WHITE, KRAFT-PAPER, FIBERGLASS-REINFORCED SCRIM WITH ALUMINUM-FOIL BACKING, COMPLYING WITH ASTM C 1136. TYPE MANUFACTURER: CERTAINTED CORP., B. JOHNS MANVILLE, C. KNAUF INSULATION, D. OWENS CORNING.
 3. FOR PVC, ONLY SCHEDULE 40 DWV. FOAM CORE PVC NOT ALLOWED.

WATER HAMMER ARRESTOR SCHEDULE

* P.D.I. SIZE	CONNECTION SIZE
A (1-11 F.U.)	1/2"
B (12-32 F.U.)	3/4"
C (33-60 F.U.)	1"

P.D.I. = PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201

BACKFLOW PREVENTER & SPECIALTY SCHEDULE

SERVICE & APPLICATION	MANUFACTURER	SERIES	MODEL NUMBER	SIZE	ASSE STD.	REMARKS
MAIN WATER SERVICE	WATTS REGULATOR	SERIES 909	MODEL LF909M1QT-S	1 1/2"	ASSE 1013	WHEN A "RP2" TYPE IS REQUIRED
MAIN WATER SERVICE	WATTS REGULATOR	SERIES 007	MODEL LF007M2QT-S	1 1/2"	ASSE 1015	WHEN A DOUBLE CHECK VALVE IS REQUIRED
LAWN IRRIGATION	WATTS REGULATOR	SERIES 909	MODEL LF909M1QT-S	1"	ASSE 1013	WHEN VALVE IS LOCATED INSIDE THE BLDG
LAWN IRRIGATION	WATTS REGULATOR	SERIES 800	MODEL LF800M4FR	1"	ASSE 1020	WHEN VALVE IS LOCATED OUTSIDE THE BLDG
YARD HYDRANT	WATTS REGULATOR	SERIES LF009QT	MODEL LF009M3QT	3/4"	ASSE 1013	WHEN REMOTE TRASH COMPACTOR IS UTILIZED
COFFEE & CAPPUCCINO MACHINES	WATTS REGULATOR	SERIES SD-3	MODEL SD-3-4M	3/8"	ASSE 1022	LEAD FREE, 3/8" M-NPT INLET/OUTLET, RUN VENT TO DRAIN
SODA CARBONATOR (FREE STYLE)	WATTS REGULATOR	SERIES SD-3	MODEL SD-3-4M	3/8"	ASSE 1022	LEAD FREE, 3/8" M-NPT INLET/OUTLET, RUN VENT TO DRAIN
FROZEN CARBONATED BEVERAGE (FCB)	WATTS REGULATOR	SERIES SD-3	MODEL SD-3-4M	3/8"	ASSE 1022	LEAD FREE, 3/8" M-NPT INLET/OUTLET, RUN VENT TO DRAIN
ICE MAKER (SODA & SMOOTHIE)	WATTS REGULATOR	SERIES SD-3	MODEL SD-3-4M	3/8"	ASSE 1022	LEAD FREE, 3/8" M-NPT INLET/OUTLET, RUN VENT TO DRAIN
ESPRESSO MACHINE	WATTS REGULATOR	SERIES SD-3	MODEL SD-3-4M	3/8"	ASSE 1022	LEAD FREE, 3/8" M-NPT INLET/OUTLET, RUN VENT TO DRAIN
ICED TEA	WATTS REGULATOR	SERIES SD-3	MODEL SD-3-4M	3/8"	ASSE 1022	LEAD FREE, 3/8" M-NPT INLET/OUTLET, RUN VENT TO DRAIN
MILKSHAKE MACHINE	WATTS REGULATOR	SERIES SD-2	MODEL SD-2-4M	3/8"	ASSE 1022	LEAD FREE, 3/8" M-NPT INLET/OUTLET
ROLL BAKING (FILTERED WATER)	WATTS REGULATOR	SERIES SD-2	MODEL SD-2-4M	3/8"	ASSE 1022	LEAD FREE, 3/8" M-NPT INLET/OUTLET
ROLL BAKING (DOMESTIC WATER)	WATTS REGULATOR	SERIES SD-2	MODEL SD-2-4M	3/8"	ASSE 1022	LEAD FREE, 3/8" M-NPT INLET/OUTLET
"CSR" WATER SUPPLY	WATTS REGULATOR	SERIES LF7R	MODEL LF7R	3/4"	ASSE 1024	LEAD FREE
BEFORE MIXING VALVE	WATTS REGULATOR	SERIES 7	MODEL LF7	3/4"	ASSE 1024	LEAD FREE
HOT FOOD TABLE & RETHERMALIZER	WATTS REGULATOR	SERIES 7	MODEL LF7	1/2"	ASSE 1024	LEAD FREE
SANITIZING EQUIPMENT (EQ. F3 & MR-1)	WATTS REGULATOR	SERIES 9D	MODEL LF7	1/2"	ASSE 1013	LEAD FREE
VACUUM RELIEF FITTING (GHW-1)	WATTS REGULATOR	SERIES 106	MODEL LF7	3/4"	ASSE 1013	LEAD FREE
EXTERIOR GROUND HYDRANT	WATTS REGULATOR	SERIES 106	MODEL LF7	3/4"	ASSE 1013	LOCATED INSIDE THE BUILDING

FIXTURE SPECIFICATIONS

TAG	FIXTURE	MANUFACTURER	MODEL #	SUPPLIED BY	CW	HW	SAN	VENT	DESCRIPTION
BV-1	CALIBRATED BALL VALVE	BELL & GOSSETT	CB-100	WAWA	-	-	-	-	FURNISH AND INSTALL AS SHOWN ON PLANS AND WITH MANUFACTURERS RECOMMENDATIONS MODEL CB CALIBRATED BALANCE VALVES.
ECO	EXTERIOR CLEANOUT	JAY R. SMITH	4112	HJC	-	-	-	-	HEAVY TRAFFIC AREA EXTERIOR CLEANOUT WITH ACCESS COVER AND TWO-WAY FITTING. SEE PLANS FOR PIPE SIZE CONNECTION.
F3	FLOOR SINK	WAWA	-	WAWA	3/4"	3/4"	-	-	FURNISHED BY WAWA, INSTALLED BY PLUMBING CONTRACTOR.
F5	FLOOR SINK	BROWNE	HS-30L	HJC	1/2"	1/2"	2"	1-1/2"	WALL MOUNTED, SIS HAND SINK WITH FAUCET & STRAINER, CHROME PLATED BRASS ANGLE STOPS WITH CHROME PLATED RISERS AND CHROME PLATED ESCUTCHEONS. CHROME PLATED BRASS TAILPIECE & TRAP/PCV NOT PERMITTED. FAUCET HANDLES SHALL BE ALIGNED TO BE PERPENDICULAR TO THE FLOOR WHEN IN THE CLOSED POSITION. PROVIDE MIXING VALVE WATTS MODEL #LFMMV-US-M1. MIXING VALVE SHALL BE LOCATED ABOVE THE "LAY-IN" CEILING TILE WHERE APPLICABLE. TEMPERATURE GAUGE SHALL BE EASILY READABLE FROM THE FLOOR OR A LADDER. TEMPERED WATER SHALL BE SET AT 120°F.
F10	FLOOR CLEANOUT	ZURN	ZN1400	HJC	-	-	-	-	FLOOR CLEANOUT WITH ACCESS COVER. SEE PLANS FOR PIPE SIZE CONNECTION. (ZN1400-HDLN-VP)
F11	FLOOR DRAIN	JAY R. SMITH	2055L	HJC	-	-	3"	1-1/2"	CAST IRON BODY WITH BOTTOM OUTLET, NICKEL BRONZE ROUND STRAINER. PROVIDE DEEP SEAL TRAP AND TRAP PRIMER CONNECTION OUTLET. (2055L-A05-NB-P050-U)
F12	NOT USED	-	-	-	-	-	-	-	-
F13	FLOOR DRAIN	JAY R. SMITH	2055LXH	HJC	-	-	3"	1-1/2"	CAST IRON BODY WITH BOTTOM OUTLET, NICKEL BRONZE ROUND STRAINER. PROVIDE DEEP SEAL TRAP AND TRAP PRIMER CONNECTION OUTLET. (2055LXH-A05-NB-P050-U)
FS-1	FLOOR SINK	PLASTIC ODDITIES INC.	RBH-300H	HJC	-	-	-	-	12"X 5.5" DEEP, PLASTIC BODY WITH ACID RESISTING INTERIOR AND HALF GRATE ALUMINUM BEEHIVE STRAINER.
FS-2	FLOOR SINK	PLASTIC ODDITIES INC.	RPS-300SC	HJC	-	-	-	-	SEE PLANS
FS-3	FLOOR SINK	PLASTIC ODDITIES INC.	RSB3	HJC	-	-	-	-	12"X 5.5" DEEP, PLASTIC BODY WITH ACID RESISTING INTERIOR, NO GRATE, GREY FINISH WITH SEDIMENT BUCKET.
FS-4	FLOOR SINK	PLASTIC ODDITIES INC.	PSD900SW	HJC	-	-	-	-	12"X 5.5" DEEP, PLASTIC BODY WITH ACID RESISTING INTERIOR, FLOOR SINK (PLUGGED FOR FUTURE USE), SOLID COVER, RIM TO BE FLUSH WITH FLOOR, GREY FINISH
FS-5	FLOOR SINK	PLASTIC ODDITIES INC.	RBH-300T	HJC	-	-	-	-	12"X 5.5" DEEP, PLASTIC BODY WITH ACID RESISTING INTERIOR AND THREE-QUARTER PLASTIC GRATE TOP
GHW-1	GAS WATER HEATER	A.O. SMITH	BTX-100	HJC	1-1/4"	-	-	-	50 GALLONS STORAGE 116 GPM RECOVERY @ 100°F TEMP. RISE 100 MBH NAT. GAS INPUT 120V RECEPTACLE FOR BLOWER & IGNITION SYSTEM. PROVIDE THERMAL EXPANSION DEVICE PROVIDE DRIP PAN. USE CONCENTRIC SIDEWALL VENT. SEE ARCHITECTURAL PLAN HOT WATER TEMP. SET @ 140°F PVC FLUE SHALL BE DWV ASTM-D2665 WATER HEATER STAND BY HOLD-RITE MODEL #40-S-26-U WITH OP-26 DRAIN PAN. PROVIDE THERMAL EXPANSION TANK MAINLINE MLTS
HUB-1	HUB DRAIN	-	-	PC	-	-	3"	-	3" X 6" INCREASE FITTING, TOP OF FITTING SET AT 6" A.F.F. DRAIN TO BE ABOVE CABINET BASE. COORDINATE LOCATION, SNAP-IN STRAINER NOT REQUIRED.
HUB-2	HUB DRAIN	-	-	PC	-	-	3"	-	3" X 6" INCREASE FITTING, TOP OF FITTING SET AT 6" A.F.F. DRAIN TO BE ABOVE CABINET BASE. COORDINATE LOCATION, SNAP-IN STRAINER NOT REQUIRED.
HUB-3	HUB DRAIN	-	-	PC	-	-	3"	-	3" X 4" INCREASE FITTING, PROVIDE WITH 3" SNAP-IN STRAINER
RP-1	RECIRCULATING PUMP	BELL & GOSSETT	NBF-90LW	HJC	-	-	-	-	PROVIDE WITH MODEL A05-12 AQUASTAT. PROVIDE ELECTRICAL DISCONNECT SWITCH. ELECTRICAL REQUIREMENTS ARE 115V/60HZ, CAPACITY FOR PUMP IS 3 GPM AT 5 FT HEAD.
LAV-1	LAVATORY UNDERMOUNT SINK	ELKAY	ELLH1811 W/ LKULCLIP	CABINET	1/2"	1/2"	2"	1-1/2"	ADA COMPLIANT UNDER MOUNT STAINLESS STEEL LAVATORY. INSTALL AS REQUIRED TO MEET ADA GUIDELINES. PROVIDE WITH MCGUIRE MODEL #H181K, #155WC OFFSET STRAINER AND TAILPIECE, & #8902. PROVIDE ZURN FAUCET MODEL #26915-GEN-K-XL WITH THESE OPTIONS 0.5 GPM VANDAL RESISTANT LAMINAR FLOW & LOW LEAD COMPLIANT. PROVIDE WITH MIXING VALVE WATTS MODEL #LFMMV-US-M1. INSTALL USING MANUFACTURERS RECOMMENDATIONS. USE OFFSET TAILPIECE TO AVOID CONFLICT WITH CABINET DOOR.
MR-1	MOP RECEPTOR	FIAT	MSB-2436	HJC	3/4"	3/4"	3"	1-1/2"	FLOOR MOUNTED MOLDED PLASTIC BASIN WITH HOSE BRACKET 832-AA, WALL MOUNTED FAUCET 630-AA, MOP HANGER 880-CC AND CORNER GUARD ON THE FRONT LIP. FIAT PRODUCTS STRAINER #1453-BB, CAST IRON P-TRAP. FURNISHED BY WAWA, INSTALLED BY PLUMBING CONTRACTOR.
MW4	SINK COUNTERTOP	-	-	CABINET	1/2"	1/2"	2"	1-1/2"	FURNISHED BY WAWA, INSTALLED BY PLUMBING CONTRACTOR. REFERENCE DETAIL ON THE P7 SHEET.
MW5.7	MW5.5	SINK COUNTERTOP	-	CABINET	1/2"	1/2"	2"	1-1/2"	FURNISHED BY WAWA, INSTALLED BY PLUMBING CONTRACTOR. REFERENCE DETAIL ON THE P7 SHEET.
MX-1	MIXING VALVE (LAVATORIES)	WATTS REGULATOR	LFMMV-US-M1	HJC	1/2"	1/2"	-	-	ASSE 1070 MIXING VALVE SET AT 110° F (UNLESS NOTED).
MX-2	MIXING VALVE (HAND WASHING)	WATTS REGULATOR	LFMMV-US-M1	HJC	1/2"	1/2"	-	-	ASSE 1070 MIXING VALVE SET AT 120° F (UNLESS NOTED).
NFHW-1	NFHW-1	WALL HYDRANT-BLOCK	JAY R. SMITH	5509QT	HJC	3/4"	-	-	PROVIDE WALL HYDRANTS AS LOCATED ON THE PLUMBING DRAWINGS. WALL HYDRANTS SHALL BE AUTOMATIC DRAINING WITH 3/4 INCH WACUUM BREAKER HOSE CONNECTION. COLD WATER SUPPLY SHALL BE PROVIDED WITH A BACKFLOW PREVENTER AS INDICATED ON THE PLUMBING DRAWINGS.
NFHW-2	NFHW-2	WALL HYDRANT-BRICK	JAY R. SMITH	5519	HJC	3/4"	-	-	DUOD CAST IRON BODY WITH COMBINED FLASHING CLAMP & GRAVEL STOP WITH POLYETHYLENE DOME AND EXTENSION SLEEVE AS REQUIRED.
RD-1	ROOF DRAIN	JAY R. SMITH	1340T	HJC	-	-	3"	-	PROVIDE TRAP PRIMER WITH A DISTRIBUTION UNIT
TP-1	TRAP PRIMER	PRECISION PLUMBING	P1-500	HJC	1/2"	-	-	-	TRIMBROOK 1.0 GPF SIPHON JER URINAL, ADA COMPLIANT FLUSHING RIM, VITREOUS CHINA URINAL, LOW CONSUMPTION AND SIPHON JET FLUSH ACTION, SLOAN "ROYAL OPTIMA" FLUSH VALVE MODEL 186-F ES-S TOP SPUD WITH ACCESSORY EL-154 & EL-226. PROVIDE WITH RECOMMENDED 1/2 HANGERS.
UR-1	URINAL	AMERICAN STANDARD	6661.017	HJC	3/4"	-	2"	1-1/2"	FLOOR MOUNTED ADA COMPLIANT VITREOUS CHINA, 1.5 GPF TOP SPUD, FRONT LIP 2.5 INCH WIDE WATER CLOSURE, PROMOTE WITH MANUFACTURERS RECOMMENDED ANGLE SUPPLY STOPS, SLOAN "ROYAL OPTIMA" FLUSH VALVE MODEL 111 ES-S TOP SPUD WITH ACCESSORIES EL-154 & EL-226. PROVIDE WITH OLSONITE MODEL #95532 OPEN FRONT WHITE SEAT.
WC-1	WATER CLOSET FLUSH VALVE (ADA)	AMERICAN STANDARD	3461.160	HJC	1"	-	4"	2"	WALL CLEANOUT WITH STAINLESS STEEL ROUND ACCESS COVER. SEE PLANS FOR PIPE SIZE CONNECTION.
WCO	WALL CLEANOUT	ZURN	Z1446	HJC	-	-	-	-	WATER HAMMER ARRESTOR SHALL MEET ASSE 1010. THE DEVICE SHALL CONSIST OF A COPPER BODY WITH AN ACETAL PISTON, BUNA NITRILE O-RINGS AND LEAD FREE SOLDER. THE DEVICE SHALL BE PRE-CHARGED AND SEALED AT THE FACTORY.
SA	SHOCK ARRESTOR	WILKINS	1250	HJC	-	-	-	-	WATER HAMMER ARRESTOR SHALL MEET ASSE 1010. THE DEVICE SHALL CONSIST OF A COPPER BODY WITH AN ACETAL PISTON, BUNA NITRILE O-RINGS AND LEAD FREE SOLDER. THE DEVICE SHALL BE PRE-CHARGED AND SEALED AT THE FACTORY.

NOTES:
 1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FINAL LOCATIONS AND MOUNTING DIMENSIONS OF ALL PLUMBING FIXTURES. PROVIDE ADA COMPLIANT FACTORY INSULATION KIT ON HOT, COLD AND R-TRAP WASTE PIPING AT HANDICAP DESIGNATED LAVATORIES.
 2. SEE EQUIPMENT SCHEDULE ON SHEET E01 FOR EQUIPMENT NOT LISTED.

PLUMBING GENERAL NOTES

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND GOVERNING AUTHORITIES, I.E. INTERNATIONAL BUILDING CODE 2012 PLUMBING.
- ALL SANITARY PIPING 2-1/2" OR LESS SHALL HAVE A 1/4" PER FOOT SLOPE. ALL SANITARY PIPING 3" OR LARGER SHALL HAVE A 1/8" PER FOOT SLOPE. ALL OTHER PIPING NOTED. ALL STORM WATER PIPING 2-1/2" OR LESS SHALL HAVE A 1/4" PER FOOT MINIMUM HORIZONTAL SLOPE. ALL STORM WATER PIPING 3" OR LARGER SHALL HAVE A 1/8" PER FOOT MINIMUM HORIZONTAL SLOPE UNLESS OTHERWISE INDICATED.
- VALVES AND FITTINGS SHALL BE OF SAME SIZE OF LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- INSTALL WATER HAMMER SHOCK ARRESTORS AT EACH FIXTURE OR BATTERY OF FIXTURES WHERE REQUIRED. ARRESTORS SHALL BE WATTS REGULATOR FABRICATED. INSTALL ARRESTORS AND SIZE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH-201. ACCEPTABLE MANUFACTURERS: DSM, WATTS, SMOOK, COFFEE AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
- ALL WATER SUPPLY AND SANITARY LINES SHALL RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR FIXTURES.
- CHANGES IN THE DIRECTION OF SANITARY AND STORM DRAINAGE PIPING SHALL NOT BE MADE WITH FITTINGS WHICH WILL CAUSE EXCESSIVE REDUCTION IN THE VELOCITY OF FLOW OR CREATE ANY OTHER ADVERSE EFFECT, I.E.: USE OF SANITARY TEE IN A HORIZONTAL CONNECTION. USE OF A DOWN-SANITARY TEE IN A VERTICAL STACK. USE OF SHORT RADIUS FITTINGS FOR BRANCH TO HOUSE DRAIN OR SEWER CONNECTION.
- CONTRACTOR SHALL GIVE 24 HOURS NOTICE TO APPLICABLE UTILITY COMPANY PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
- ALL DRAINAGE PIPES SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITARY FOUNDATION.
- WHERE SANITARY SEWER LINES CROSS UNDERGROUND WATER SUPPLY LINES, THE INSTALLATION SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE 2012 PLUMBING, ARTICLE 603.2 CONSTRUCTED OF DUCTILE IRON PIPE (10 EACH SIDE OF WATER MAIN) OR THE WATER LINES SHOULD BE MODIFIED TO PROVIDE 8" MINIMUM CLEARANCE.
- ALL FLOOR DRAINS SHALL BE PROVIDED WITH A TRAP PRIMER VALVE AND FITTINGS UNLESS NOTED OTHERWISE.
- THE PLUMBING CONTRACTOR MAY BE REQUIRED TO DROP PIPE OUTSIDE OF BUILDING TO OBTAIN REQUIRED SLOPE TO PROVIDE CONNECTION TO AREA DEVELOPMENT UTILITY SYMB. ALL DROPS IN DEPTH SHALL BE MADE WITH THE USE OF 45° FITTINGS.
- ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES EXPOSED TO BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
- SLEEVE AND FIRE STOP ALL PENETRATIONS (IF ANY) OF RATED WALLS, FLOORS, CEILING, ETC. IN ACCORDANCE WITH APPLICABLE UL STANDARDS AND LOCAL CODES TO MAINTAIN RATINGS. REFER TO SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR RATED WALLS, CEILING AND FLOOR INFORMATION.
- ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE PLACED ON THE INTERIOR SIDE OF THE WALL. INSULATION SHALL BE PLACED ON THE EXTERIOR SIDE OF THE PIPE.
- SEE RISER DIAGRAMS FOR BRANCH PIPING INSTALLATIONS AS SHOWN ON PLANS.
- COLD AND HOT WATER PIPING SHALL BE HARD GUILDTS OF THE SAME TYPE AND SHALL MEET ASTM D 2848 AND ASTM D 1784. DISINFECT WATER PIPING AFTER PRESSURE TEST WITH CHLORINE SOLUTION (100 PPM) FOR 24 HOURS. FLUSH LINES TO CLEAN AFTER COMPLETION.
- SOIL, WASTE AND VENT PIPING SHALL BE 40% OVERSIZED. 40" FITTINGS: PVC DWV JOINTS, ASTM WELD. PROVIDE CAST IRON PIPE AND FITTINGS FOR SOIL, WASTE AND VENT PIPING LOCATED ON CEILING PLANS.
- PROVIDE CLEANOUTS AT EACH CHANGE OF DIRECTION OF HORIZONTAL RUNS AND AT 100 FOOT INTERVALS OF HORIZONTAL RUNS SANITARY AND STORM PIPING.
- PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- NOTING AND PROVIDE LOCATION OF ALL VALVES SHALL BE PROVIDED ON SITE UTILITY DRAWINGS. ALL SERVICES SHOWN ON THIS SET OF PLANS TERMINATE 5'-0" FROM BUILDING UNLESS SHOWN OTHERWISE ON DRAWINGS. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO SITE UTILITIES.
- FURNISH AND INSTALL HOSE END AND/OR WALL HYDRANTS 24" ABOVE FINISHED GRADE/FLOOR AND PROVIDE VACUUM BREAKERS.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ROOF DRAINS, PLUMBING FIXTURE MOUNTING HEIGHTS AND DIMENSIONS.
- CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF EXISTING SEWERS IN WHICH NEW SEWER LINES ARE TO BE CONNECTED PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
- CONTRACTOR SHALL ROUGH-IN ALL WASTE AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
- PROVIDE REDUCED PRESSURE BACKFLOW PREVENTERS FOR DOMESTIC WATER SUPPLY CONNECTIONS AS REQUIRED BY CODE.
- ALL BELOW GRADE/SLAB PEX PIPING SHALL BE PLACED WITHIN POLYETHYLENE PLASTIC SLEEVING. EXTEND SLEEVING ABOVE GRADE/SLAB.
- CONTRACTOR SHALL REFER TO PLUMBING DRAWINGS FOR EXACT LOCATIONS OF FLOOR DRAINS IF ANY LOCATED WITHIN TOILET ROOMS.
- PRESSURE REDUCING VALVES SHALL BE INSTALLED ON BRANCH LINES SERVING FIXTURES AND/OR EQUIPMENT WHEN THE PRESSURE IN THE LINE EXCEEDS 80 P.S.I.
- COORDINATE EXACT LOCATION OF FLOOR DRAINS FOR HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR. CONDENSATE PIPING SHALL NOT DISCHARGE INTO SANITARY SYSTEM.
- ROUTE WATER LINES TIGHT TO STRUCTURE. COORDINATE ROUTING TO AVOID CONFLICTS WITH OTHER DISCIPLINES.
- IF THE INTENT OF THE DRAWINGS AND/OR SPECIFICATIONS IS UNCLEAR OR HAS MORE THAN ONE INTERPRETATION, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS. THE ARCHITECT/ENGINEER SHALL MAKE CORRECTIONS AND/OR PROVIDE EXPLANATION IN WRITING.
- PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL ACQUAINT HIMSELF WITH THE MECHANICAL, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL PLANS PRIOR TO SUBMITTING HIS FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO CONTRACTORS FAILURE TO FAMILIARIZE HIMSELF WITH THE PLANS.
- THE CONTRACTOR SHALL BASE HIS PROPOSAL UPON THE EQUIPMENT AS SCHEDULED OR SPECIFIED, USING THE MANUFACTURERS AND EQUIPMENT SPECIFIED ON THE DRAWINGS. IF MORE THAN ONE MANUFACTURER IS SPECIFIED FOR ONE ITEM, ANY ONE OF THE MANUFACTURERS LISTED MAY BE USED IN THIS CONTRACTORS PROPOSAL. IF THIS CONTRACTOR WISHES TO USE EQUIPMENT NOT SPECIFIED, HE MUST AT THE TIME OF BIDDING SUBMIT SEPARATELY ON LETTERHEAD STATIONARY OF THE BIDDER. THE EQUIPMENT HE WOULD SUBSTITUTE AND THE COST TO BE ADDED OR TO BE DEDUCTED FROM HIS PROPOSAL.
- THE CONTRACTOR IS EXPECTED TO ORDER ALL MATERIALS IN SUFFICIENT TIME TO AVOID DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERY WILL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBMISSION OF SUBSTITUTE MATERIALS.
- DO NOT PENETRATE WALL FOOTINGS WITH PIPING. COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER.
- REFER TO PLANS FOR VENT THRU ROOF (VTR) PIPE SIZES AND LOCATIONS. LOCATE VTR A MIN. 10' HORIZONTAL FROM ANY BUILDING INTAKE OR FRESH AIR INTAKE. EXTEND VTR 12" ABOVE ROOF SURFACE. IF 10' DISTANCE CANNOT BE ACHIEVED LOCATE VTR 2' ABOVE ADJACENT TOP OF FRESH AIR INTAKE OR BUILDING OPENINGS. PROVIDE 1" FIBERGLASS INSULATION WITH ALL SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN 6' OF VTR LOCATION. VERIFY FLASHING AND COUNTERFLASHING AND COORDINATE INSTALLATION WITH ROOFING CONTRACTOR.

Order Plans

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