

**PLUMBING GENERAL NOTES**

**GENERAL REQUIREMENTS:**

- GENERAL AND SPECIAL CONDITIONS: GENERAL AND SPECIAL CONDITIONS ARE HEREBY MADE AN INTEGRAL PART OF THIS DIVISION OF THE SPECIFICATIONS INsofar AS SAME ARE APPLICABLE TO THE WORK UNDER THIS DIVISION AND UNLESS OTHERWISE SPECIFIED.
- SCOPE: PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES.
- PERMITS: APPLY FOR AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION.
- WARRANTY: PROVIDE ALL MATERIALS AND EQUIPMENT UNDER THIS SECTION OF THE SPECIFICATIONS WITH A ONE YEAR WARRANTY FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER.
- COORDINATION: VERIFY ALL ROUGH-IN LOCATIONS AND COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS. CONTRACTOR MUST COORDINATE WITH OTHER TRADES FOR ALL STRUCTURES, PIPING, CONDUIT, DUCTWORK, LIGHTING, ETC. TO PROPERLY BE INSTALLED. ANY CONFLICTS SHALL BE RESOLVED AT NO CHARGE TO THE OWNER. COORDINATE INSTALLATION OF ALL PLUMBING LINES AT CMU WALLS SO THAT PLUMBING LINES ARE PLACED IN WALL DURING CMU WALL CONSTRUCTION. CUTTING AND PATCHING OF CMU WALLS IN PLACE WILL NOT BE PERMITTED.
- FIELD VERIFICATION: FIELD VERIFY EXISTING CONDITIONS BEFORE STARTING CONSTRUCTION AND NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTENTIAL PROBLEMS OBSERVED BEFORE CONTINUING WORK IN THE EFFECTED AREAS.
- PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO:
  - PLUMBING FIXTURES AND EQUIPMENT
  - FIRE STOPPING
  - DOMESTIC WATER SYSTEM
  - SANITARY WASTE AND VENT SYSTEM
  - GAS SYSTEM
  - STORM DRAIN/SEWER SYSTEM
- SEE ARCHITECTURAL PLANS FOR FINAL EQUIPMENT LOCATIONS. COORDINATE WITH EQUIPMENT SUPPLIER AND THE GENERAL CONTRACTOR FOR FINAL WALL LOCATIONS.

**FIXTURES:**

- PROVIDE COMPLETE FIXTURES AND INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAIL PIECES, ESCUTCHEONS, ETC.

**FIRE STOPPING:**

- FIRE STOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS AND PARTITIONS. PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814 AND INSTALL IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTINGS. PROVIDE A DEVICE(S) OR SYSTEM(S) WITH AN IF RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED.

**DOMESTIC WATER PIPING:**

- FURNISH AND INSTALL A COMPLETE SYSTEM OF HOT AND COLD WATER, AND WASTE PIPING FROM EXISTING SUPPLIES TO ALL FIXTURES AND/OR EQUIPMENT REQUIRING THIS SERVICE. VERIFY LOCATION OF BEGINNING POINTS.
  - DOMESTIC WATER PIPING BELOW GRADE: SOFT ANNEALED SEAMLESS COPPER TUBING, TYPE 'K' WITH NO JOINTS BELOW GRADE (ASTM B 88).
  - DOMESTIC WATER PIPING AND JOINTS ABOVE GRADE: HARD DRAWN SEAMLESS COPPER TUBING, TYPE 'L' WITH 95-5 SILVER SOLDERED JOINTS (ASTM B 88) CPVC AND OR CROSS-LINKED POLYETHYLENE (PEX) (ASTM F877) PLASTIC HOT AND COLD WATER DISTRIBUTION IS ALLOWED WHERE PERMISSIBLE AND PRE-APPROVED.
  - STERILIZE DOMESTIC WATER PIPING IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
  - INSULATE DOMESTIC WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH ENGINEERED POLYMER FOAM INSULATION OR FIBERGLASS WITH FITTING INSERTS AND PVC COVERS. FOLLOW THIS SCHEDULE:
- | SERVICE                        | PIPE SIZE     | INS. THICKNESS |
|--------------------------------|---------------|----------------|
| DOMESTIC HOT WATER (105-140F)  | 1/2" - 1-1/2" | 1/2"           |
| DOMESTIC HOT WATER (105-140F)  | 2" AND UP     | 3/4"           |
| DOMESTIC HOT WATER (140-160F)  | ALL           | 1"             |
| DOMESTIC HOT WATER CIRCULATION | ALL           | 1/2"           |
| DOMESTIC COLD WATER            | ALL           | 1/2"           |
- DOMESTIC WATER PIPING INSULATION: JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 256) METHOD.
  - DO NOT INSTALL DOMESTIC WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES. INSTALL WATER PIPING IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.
  - SHUT OFF VALVES: PROVIDE FULL PORT, BALL TYPE, AND INSTALL IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. PROVIDE ACCESS DOORS AS REQUIRED.
  - PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CONTACTED ON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH OTHER METALS.
  - PROTECT COPPER PIPING AGAINST CONTACT WITH ALL MASONRY WHERE COPPER IS SLEEVED THROUGH MASONRY, PROVIDE COPPER OR RED BRASS SLEEVES. WHERE COPPER MUST BE IN CONTACT WITH MASONRY PARTITIONS, PROVIDE A HEAVY COATING OF ASBESTOS ENAMEL ON THE COPPER PIPING AND A SALT SATURATED FELT BETWEEN THE PIPING AND THE MASONRY PARTITION.

- FURNISH BURST PROOF BRAIDED FLEXIBLE CONNECTORS FOR SINK CONNECTIONS AND CONNECTIONS TO EQUIPMENT.
- PROVIDE ZURN WILKINS MODEL 740 (OR EQUAL) BACKFLOW PREVENTION TYPE VACUUM BREAKER FOR ICE MACHINE, CARBONATOR, AND OTHER EQUIPMENT AS REQUIRED BY CODE.
- P.C. SHALL VERIFY THE INCOMING WATER PRESSURE AND PROVIDE A PRESSURE REDUCING VALVE IF PRESSURE IS 80 PSI OR GREATER.
- P.C. SHALL INSTALL HAMMER ARRESTORS ON PROJECTS THAT USE QUICK CLOSING DEVICES SUCH AS FLUSH VALVES, ICE MAKER, WASHER MACHINES, ETC., SIZED PER MANUFACTURER RECOMMENDATIONS.

**SANITARY WASTE AND VENT PIPING:**

- FURNISH AND INSTALL COMPLETE SYSTEMS OF SOIL, WASTE, AND VENT PIPING FROM ALL PLUMBING FIXTURES, AND/OR OTHER EQUIPMENT. ALL SOIL, WASTE AND VENT LINES SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE.
  - INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE WASTE PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED.
  - SANITARY WASTE AND VENT PIPING AND FITTINGS: SERVICE WEIGHT CAST IRON, HUB AND SPIGOT TYPE WITH COMPRESSION JOINTS (ASTM A 74) OR NO-HUB PIPING WITH COUPLINGS (CISPI 308).
- IF PERMITTED BY LOCAL CODES, SCHEDULE 40 PVC (ASTM D 2665) WITH SCHEDULE 40 SOCKET-TYPE PIPE FITTINGS (ASTM D 3311) MAY BE USED. DO NOT INSTALL PVC PIPING IN RETURN AIR PLenums. PVC FOAM CORE DWY PIPING NOT PERMITTED.
- SLOPE SANITARY WASTE PIPING 2-1/2" AND SMALLER AT 1/4" PER FOOT MIN. SLOPE SANITARY WASTE PIPING 3" AND LARGER AT 1/8" PER FOOT MINIMUM.
  - WHERE WASTE PIPING IS EXPOSED IN REST ROOM AREAS, PROVIDE CHROME PLATED BRASS PIPING, WITH MATCHING STOPS AND ESCUTCHEONS. PROVIDE REMOVABLE TRAPS WITH INTEGRAL CLEAN-OUT PLUG FOR ALL LAVATORIES.
  - INSTALL CLEAN-OUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. CLEAN-OUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS AT EACH CHANGE IN DIRECTION.
  - ALL INDIRECT WASTE CONNECTIONS TO BE INSTALLED WITH AN AIR GAP BETWEEN INDIRECT WASTE PIPE AND THE FLOOD RIM OF THE WASTE RECEPTOR SHALL BE MINIMUM OF TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.

**SEISMIC REQUIREMENTS:**

- PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING, APPARATUS, EQUIPMENT, ETC. IN ACCORDANCE WITH APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.

**BACKFLOW PREVENTION:**

- VERIFY BACKFLOW PREVENTOR REQUIREMENTS OF LOCAL AUTHORITY AND PROVIDE BACKFLOW PREVENTION DEVICES AS REQUIRED. COORDINATE LOCATION WITH OTHER TRADES.

**WATER METER:**

- VERIFY DOMESTIC WATER METER REQUIREMENTS OF LOCAL AUTHORITY AND PROVIDE DOMESTIC WATER METER AS REQUIRED. COORDINATE LOCATION WITH OTHER TRADES.

**GAS PIPING:**

- WORK TO INCLUDE PIPING FROM GAS METER TO GAS FIRED EQUIPMENT. PLUMBING CONTRACTOR TO PROVIDE SHUT-OFF VALVE, DIRT TRAP AND PRESSURE REGULATOR AT THE GAS FIRED EQUIPMENT. FOOD SERVICE EQUIPMENT VENDOR SHALL PROVIDE SHUT-OFF VALVES FOR FOOD SERVICE EQUIPMENT (SEE 'FOOD SERVICE EQUIPMENT NOTES' ON THIS SHEET FOR ADDITIONAL NOTES).
- ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODE REQUIREMENTS, AND THE PROVISIONS OF NFPA-54 AND NFPA-58.
- ALL NATURAL GAS PIPING AND SYSTEMS SHALL COMPLY WITH THE CURRENT EDITION AS APPROVED BY OGF OF THE INTERNATIONAL FUEL GAS CODE.
- THE CONTRACTOR SHALL SUPPLY ALL PERMITS, FEES AND LICENSES REQUIRED FOR THE WORK, AND FOR ALL INSPECTIONS REQUIRED.
- ALL ABOVE GROUND PIPING 4" AND LARGER SHALL BE ASTM A 53 BLACK STEEL WITH ASME B16.11 SOCKET-WELDED FITTINGS. PRESSURE PIPING AFTER REGULATORS MAY BE ASME B16.11 THREADED OR TABLE IRON FITTINGS. BELOW GRADE PIPING SHALL BE ASTM D 2513 PIPE. BELOW GRADE PIPING SHALL BE PERMANENTLY IDENTIFIED AND PROTECTED WITH WARNING AND LABELING AND PROTECTED WITH PROTECTIVE COVERINGS. KITCHEN EQUIPMENT FLEXIBLE CONNECTORS SHALL BE AS LISTED FOR SUCH USE. ALL GAS PIPING SHALL BE PROPERLY IDENTIFIED AND LABELED.
- VALVES SHALL BE GAS SOCKS MANUFACTURED BY BISCO.
- ALL PIPING EXPOSED TO THE ELEMENTS OR RUN IN UNCONDITIONED SPACES SHALL BE PAINTED WITH TWO COATS OF RUST RESISTANT ENAMEL.
- PIPE 3" AND SMALLER SHALL BE SCHEDULE 40 STEEL WITH THREADED WALLEABLE FITTINGS.

**SHOCK ARRESTOR SCHEDULE**

P.D.I. SIZE	FIXTURE UNITS	MANUFACTURER (OR EQUAL)
SAW	1 - 11	PP1, SIOUX-CHIEF, SMITH, ZURN
SAW	12 - 32	PP1, SIOUX-CHIEF, SMITH, ZURN
SAW	33 - 60	PP1, SIOUX-CHIEF, SMITH, ZURN
SAW	61 - 113	PP1, SIOUX-CHIEF, SMITH, ZURN
SAW	114 - 164	PP1, SIOUX-CHIEF, SMITH, ZURN
SAW	165 - 330	PP1, SIOUX-CHIEF, SMITH, ZURN

**NOTES:**

- LOCATE SHOCK ARRESTORS IN AN ACCESSIBLE LOCATION, OR PROVIDE SIOUX-CHIEF SHOCK ARRESTORS ONLY
- SHOCK ARRESTORS SHALL BE SAME SIZE AS PIPE INSTALLED ON (MINIMUM)
- PROVIDE SHOCK ARRESTORS AS INDICATED PER SCHEDULE

**PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE**

MARK	KITCHEN EQUIPMENT ITEM NO.	FIXTURE	TYPE	MANUFACTURER	MODEL NO.	MATERIAL	STYLE	FAUCET/VALVE			DRAIN		PIPE SIZES				MOUNTING	REMARKS						
								SPOUT	HANDLES	CENTERS	TYPE	SIZE	WASTE	VENT	CW	HW								
P-1	---	WATER CLOSET	FLUSH VALVE	TOTO	CT705ELN	VITREOUS CHINA	HANDICAPPED ELONGATED	TOTO TMTLNS2PC	---	---	---	---	---	4"	2"	1-1/4"	---	FLOOR	PROVIDE WITH BENS 1955C SEAT; 1286FF WATER SAVING.					
P-2	---	LAVATORY	WALL HUNG	TOTO	LT307.4	VITREOUS CHINA	ADA COMPLIANT	DELTA 925 LF HDP	---	SINGLE LEVER	4"	GRID	1-1/2"	KOHLER K-7608-CP	2"	1-1/2"	1/2"	1/2"	WALL HUNG					
P-3	---	URINAL	FLUSH VALVE	TOTO	UT447E	VITREOUS CHINA	ADA COMPLIANT	TOTO TMLNL2PC	---	---	---	---	---	---	2"	1-1/2"	3/4"	---	WALL HUNG	PROVIDE WITH CARRIER JR SMITH 0632				
P-4	5	HAND SINK	WALL MOUNT	EAGLE	HSAN-10-LRS	---	---	---	---	---	---	---	---	---	2"	1-1/2"	1/2"	1/2"	WALL HUNG					
P-5	6	4-COMP. SINK	FREE STANDING	TITAN STAINLESS	CUSTOM BUILT	---	---	---	---	---	---	---	---	---	4" IND.	2"	1/2"	1/2"	FREE STANDING					
P-6	26	PREP. SINK	FREE STANDING	TITAN STAINLESS	CUSTOM BUILT	---	---	---	---	---	---	---	---	---	4" IND.	2"	1/2"	1/2"	FREE STANDING					
P-7	1	CAN WASH	---	---	---	---	---	---	---	---	---	---	---	---	3"	1-1/2"	1/2"	1/2"	GRADE	PROVIDE WITH FLAM 92-AA HOSE BRACKET, FIAT 888-C8 MOP HANGER AND FIAT 2-77-A GUARD				
P-8	15	BEVERAGE MACHINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SUPPLIED BY COKE DISTRIBUTOR				
P-9	37	ICE MACHINE	VALVE BOX	IPS WATERITE	W9700 SERIES WARNSTER	PVC	RECESSED BOX	---	---	---	---	---	---	---	---	---	---	---	---	WALL MOUNTED				
P-10	---	WATER FILTER	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	WALL MOUNTED			
HD	---	HUB DRAIN	ROUND	JOSAM	88600-PVC	SCH. 40 PVC	---	---	---	SCH. 40 PVC	SEE PLAN	---	---	---	---	---	---	---	---	FLOOR				
HB	---	HOSE BIBB	STANDARD	WOODFORD	24C	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	WALL	WATER TEMPERATURE TO NOT EXCEED 120 DEGREE F.		
FRH-1	---	ROOF HYDRANT	---	WOODFORD	RHY1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ROOF	ANTI-FREEZE DRAIN PIPED TO NEAREST INTERIOR DRAIN; WATER TEMPERATURE TO NOT EXCEED 120 DEGREE F.		
FRH-2	---	ROOF HYDRANT	---	WOODFORD	RHY1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ROOF	ANTI-FREEZE DRAIN PIPED TO NEAREST INTERIOR DRAIN; WATER TEMPERATURE TO NOT EXCEED 120 DEGREE F.	
FDA	---	FLOOR DRAIN	---	ZURN	Z415B	CAST IRON	---	---	---	---	CAST IRON	SEE PLAN	---	---	---	---	---	---	---	---	FLOOR	EQUIPPED WITH 10" ROUND ADJUSTABLE NICKEL TYPE 'B' STRAINER		
FSA	---	FLOOR SINK	---	ZURN	Z8102-VP6	CAST IRON	---	---	---	---	CAST IRON	SEE PLAN	---	---	---	---	---	---	---	---	FLOOR	12"X12" SANI-FLOOR RECEPTOR, 10" SUMP DEPTH WITH VANDAL-PROOF PLAT BOTTOM STRAINER, LOCKDOWN BAR, STAINLESS STEEL FRAME & X-DUTY STAINLESS STEEL GRATE.		
TDA	---	TRENCH DRAIN	LINEAR BRAIN	JOSAM	5100	CONCRETE PANEL	BRASS STEEL	---	---	---	POLYMER CONCRETE	SEE PLAN	---	---	---	---	---	---	---	---	FLOOR	PROVIDE WITH BUILT-IN SLOPE		
WCO	---	WALL CLEAN-OUT	ROUND TOP	JOSAM	58600-1L6	STAINLESS STEEL	BRONZE PLUG	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
FCO	---	FLOOR CLEAN-OUT	ROUND TOP	ZURN	1400	CAST IRON	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	FLOOR	---	
WH-1	---	WATER HEATER	ELECTRIC	STANDARD	PCE 1000-USA	GLASS LINED	COMMERCIAL LOWBOY	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10 GALLONS STORAGE; 2.0 KW AT 120V/1 PHASE; 9 GPH RECOVERY AT 90 DEGREE F RISE.
6WH-1	---	WATER HEATER	TANKLESS	RINNAI	RUC981	---	CONCENTRIC VENT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	15,200-180,000 BTU/HR.; 0.26-9.8 GPM; SET AT 140 DEGREE F.; CONCENTRIC VENT SYSTEM; 120V/1PHASE; 10 AMPS

**NOTES:**

- PLUMBING FIXTURE MANUFACTURER AND MODEL SPECIFICATIONS ARE FOR TYPICAL FIXTURES, OWNER AND G.C. APPROVED EQUALS MAY BE USED.
- TRUEBOO PIPE FITTINGS TO BE INSTALLED ON ALL SINKS WITH EXPOSED PIPING.

**PUMP SCHEDULE**

PUMP NO.	SERVICE	GPM	HEAD	EFFX	RPM	HP	VOLTS	PHASE	TYPE	VIBRATION ISOLATION		MFG & MODEL NO
										TYPE	DEFELEC	
RP-1	RECIRCULATION PUMP	10	15'	---	---	1/2	120	1	RECIRCULATION PUMP	---	---	BELL & GOSSETT PL-30

**PLUMBING LEGEND**

---	DOMESTIC COLD WATER PIPING	P-1	FIXTURE DESIGNATION
-FCW-	FILTERED COLD WATER PIPING	A.F.F.	ABOVE FINISHED FLOOR
---	EXIST. DOMESTIC COLD WATER	P.C.	PLUMBING SUB-CONTRACTOR
---	140F DOMESTIC HOT WATER PIPING	G.C.	GENERAL CONTRACTOR
---	140F HOT WATER RECIRC PIPING	M.C.	MECHANICAL SUB-CONTRACTOR
---	VENT PIPING	E.C.	ELECTRICAL SUB-CONTRACTOR
---	WASTE (SANITARY SEWER)	FCO	FLOOR CLEAN OUT
---	EXIST. WASTE (SANITARY SEWER)	WCO	WALL CLEAN OUT
GW	GREASE WASTE	YCO	YARD CLEAN OUT
G	GAS PIPING	AAV	AIR ADMITTANCE VALVE
---	EXIST. GAS PIPING	VTR	VENT THROUGH ROOF
---	GATE VALVE	PPHB	FREEZE PROOF HOSE BIBB
---	BALANCING VALVE	F.D.	FLOOR DRAIN
---	CHECK VALVE	CW	COLD WATER
---	PIPE UP	HW	HOT WATER
---	PIPE DOWN	⊕	TIE INTO EXISTING

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**PLUMBING SCHEDULES, LEGEND AND NOTES**

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