



### PLUMBING FIXTURE CONNECTION SCHEDULE

MARK #	FIXTURE TYPE	CONNECTIONS				REMARKS	NOTES
		WASTE	VENT	CW	HW		
P-1A	FLUSH TANK WATER CLOSET (HC)	3"	1-1/2"	1/2"	-	VIT. CHINA, WHITE, 16-1/8" HIGH ELONGATED BOWL, FLOOR MOUNTED FLUSH TANK TYPE, 1.28 GALLONS PER FLUSH, WITH OPEN FRONT SEAT WITHOUT COVER, AND FLEXIBLE SUPPLY AND STOP. EQUAL TO TOTO MODEL CST794EF. INSTALL PER ADA REQUIREMENTS. PROVIDE WITH HANDLE ON THE APPROACH SIDE OF THE FIXTURE.	①
P-2A	LAVATORY (HC)	1-1/2"	1-1/2"	1/2"	1/2"	VIT. CHINA, WHITE, WALL MOUNTED LAVATORY. PROVIDE WITH SINGLE LEVER ADA GOOSENECK FAUCET, 17 GA. P-TRAP, GRID DRAIN, FLOOR MOUNTED CARRIER, FLEXIBLE SUPPLIES AND STOPS. PROVIDE WITH ASSE 1070 TEMPERATURE LIMITING VALVE SET FOR 105°F. INSTALL PER ADA REQUIREMENTS.	①
P-3	BREAK ROOM SINK	2"	1-1/2"	1/2"	1/2"	33x21x8 18 GA TWO COMPARTMENT STAINLESS STEEL SINK WITH SINGLE LEVER FAUCET WITH HAND SPRAYER. PROVIDE WITH TWO BASKET STRAINERS, P-TRAP, FLEXIBLE SUPPLIES AND STOPS. COORDINATE INSTALLATION WITH OTHER TRADES.	
P-4	WATER COOLER (HC)	2"	1-1/2"	1/2"	-	DUAL HEIGHT WATER COOLER. PROVIDE WITH FLOOR MOUNTED CARRIER, P-TRAP, FLEXIBLE SUPPLY, AND STOP. INSTALL PER ADA REQUIREMENTS. PROVIDE ELKAY EZS SERIES.	
P-5	ICE MAKER BOX	-	-	1/2"	-	RECESSED BOX WITH 1/4 TURN STOP. EQUAL TO GUY GRAY BIM875.	
MV-1	MIXING VALVE	-	-	3/4"	3/4"	MIXING VALVE EQUAL TO SYMMONS 5-225-CK WITH INTERNAL CHECK VALVES. MINIMUM FLOW 0.5 GPM, MAXIMUM FLOW 5.5 GPM @ 10.0 PSI DROP. SET FOR 105°F.	
FPHB	FREEZE PROOF HOSE BIBB	-	-	3/4"	-	FREEZE PROOF HOSE BIBB WITH VACUUM BREAKER. PROVIDE AS RECESSED BOX TYPE WITH HINGED COVER.	

① HANDICAPPED FIXTURES SHALL BE INSTALLED PER THE LATEST REQUIREMENTS OF ADA.

### GENERAL PLUMBING NOTES

- THE CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM INTERFERENCE WITH OTHER TRADES.
- VERIFY EXACT PLUMBING FIXTURE ROUGH-IN AND FINAL HVAC EQUIPMENT REQUIREMENTS IN THE FIELD.
- DRAIN, WASTE, AND VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 POLY VINYL CHLORIDE (PVC) SYSTEM "ASTM D 2665". NO FOAM CORE SHALL BE USED.
- DOMESTIC WATER PIPING SHALL BE ASTM B 88, TYPE K, WITH ANSI B16.18 OR ANSI B16.22 SOLDER JOINT FITTINGS USING SILVER SOLDER AND FLUX CONTAINING NOT MORE THAN 0.2 PERCENT LEAD; OR WITH ANSI B16.26 FLARED JOINT FITTINGS. ASTM B 88, TYPE L MAY BE PROVIDED FOR ABOVEGROUND PIPING. SLEEVE SERVICE ENTRANCE AT SLAB. SEPARATE ROUNDOFF PIPING WATER PROOF.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO PLUMBING FIXTURES. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, FURNISHING AND INSTALLING ALL TRAPS, DRAINS, AND SUPPLIES WITH STOPS. FURNISH AND INSTALL PLUMBING FIXTURES INDICATED OR SPECIFIED, COMPLETE WITH ALL EQUIPMENT, FITTINGS, TRIM AND ACCESSORIES INDICATED OR SPECIFIED. EXPOSED WATER PIPING TO FIXTURES SHALL BE CHROME-PLATED BRASS. IPS. ADJUST WATER FLOW THROUGH ALL FIXTURES TO PROVIDE PROPER FLOWING ACTION WITH THE LEAST AMOUNT OF WATER.
- COORDINATE ROUTING OF WATER SUPPLY, WASTE, AND VENT PIPING WITH OTHER TRADES.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND EXCAVATIONS.
- ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10 FEET FROM ANY OUTSIDE AIR INTAKE.
- FLOOR CLEANOUTS SHALL BE ADJUSTABLE HEIGHT POLISHED BRONZE, NICKEL BRONZE WITH "CO" CAST IN THE FLOOR PLATE.
- PROVIDE STOP AND WATER HAMMER ARRESTORS IN ACCORDANCE WITH PDI AND ASSE 1010. AN ACCESS PANEL MUST BE INSTALLED IF WATER HAMMER ARRESTER IS LOCATED INSIDE A WALL OR ABOVE A HARD CEILING. COORDINATE OPENINGS WITH ARCHITECT.  
PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL CONNECTIONS.  
INSULATE ALL WATER PIPING. DOMESTIC WATER PIPE NOT EXPOSED TO VIEW SHALL BE INSULATED WITH 1" THICK GLASS FIBER WITH FACTORY APPLIED UNIVERSAL JACKET. DENSITY SHALL BE 4 POUNDS PER CUBIC FOOT. FITTINGS SHALL BE INSULATED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. INSULATION VAPOR BARRIER SHALL BE LAPPED AND CEMENTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DOMESTIC WATER PIPE EXPOSED TO VIEW SHALL BE INSULATED SAME AS WHERE NOT EXPOSED TO VIEW, EXCEPT IT SHALL BE FINISHED WITH A SIZED UNIVERSAL JACKET SUITABLE FOR PAINTING. FITTING SHALL BE MADE OF "QUICKSET" CEMENT MOLDED TO FIT AND COVERED WITH 8 OZ. CANVAS AND FINISHED WITH WHITE VAPOR BARRIER CEMENT, AND HAVE PLASTIC MOLDED FITTING COVERS. INSULATE DOMESTIC WATER AND WASTE PIPING UNDER HANDICAP LAVATORIES AND SINKS USING "LAVGUARD2 E-Z SERIES" MOLDED VINYL PIPING COVERS. COVER ALL PIPING, FITTING, VALVES, AND TRAPS EXPOSED TO VIEW.
- ROUTE ALL PIPING AS TO CAUSE MINIMAL INTERFERENCE FOR MAINTENANCE OF ALL EQUIPMENT. UNLESS OTHERWISE NOTED, ALL DOMESTIC WATER PIPING SHALL BE ROUTED WITHIN CHASE SPACE. PIPING BELOW SLAB SHALL BE WITHOUT JOINTS AND TEES. PIPING PASSING THRU WALLS EXTENDING TO BOTTOM OF STRUCTURE SHALL BE SLEEVED AND SEALED. ALL DOMESTIC WATER PIPING ROUTED EXPOSED BELOW 6'-8" ABOVE FINISH FLOOR SHALL BE PROVIDED WITH A PVC JACKET TO PREVENT DAMAGE TO THE PIPE.
- PROVIDE SHUTOFF VALVE TO EACH SILLCOCK WITH VALVE IDENTIFICATION AS REQUIRED BY CODE.
- BEFORE FINAL ACCEPTANCE OF THE WORK, TEST EACH SYSTEM AS IN SERVICE TO DEMONSTRATE COMPLIANCE WITH 2009 INTERNATIONAL PLUMBING CODE AND LOCAL CODE REQUIREMENTS. ONCE TEST ARE IN COMPLIANCE WITH CONTRACT REQUIREMENTS DISINFECT WATER SYSTEM IN ACCORDANCE WITH AWWA C651.
- CONTRACTOR TO VERIFY ALL LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECTURAL DRAWINGS.
- PIPE HANGERS AND SUPPORTS SHALL BE MSS SP-58 AND MSS SP-69, TYPE 1 OR 6, OF THE ADJUSTABLE TYPE, EXCEPT AS INDICATED OTHERWISE. ATTACHMENTS TO STEEL W OR S BEAMS SHALL BE WITH TYPE 21, 28, 29, OR 30 CLAMPS. ATTACHMENTS TO STEEL ANGLES AND CHANNELS (WITH WEB VERTICAL) SHALL BE WITH TYPE 20 CLAMP WITH A BEAM CLAMP CHANNEL ADAPTER. ATTACHMENTS TO STEEL CHANNEL (WITH WEB HORIZONTAL) SHALL BE WITH DRILLED HOLE ON CENTERLINE AND DOUBLE NUT AND WASHER. ATTACHMENTS TO CONCRETE SHALL BE WITH TYPE 18 INSERT OR A DRILLED HOLE WITH EXPANSION ANCHOR. HANGER RODS AND ATTACHMENTS SHALL BE FULL SIZE OF THE HANGER-THREADED DIAMETER. PROVIDE TYPE 40 INSULATION PROTECTION SHIELDS FOR INSULATED PIPING. PROVIDE STEEL SUPPORT RODS. PROVIDE NONMETALLIC, HAIR FELT, OR PLASTIC PIPING ISOLATORS BETWEEN COPPER TUBING AND THE HANGERS.
- LABEL ALL WATER SERVICE VALVES IN ACCORDANCE WITH APPLICABLE CODES
- COORDINATE EXACT FLOOR DRAIN LOCATIONS ARCHITECTURAL DRAWINGS. SLOPE ENTIRE ROOM TO DRAINS.
- ALL TRAP PRIMER VALVES NOT LOCATED IN NORMALLY UNOCCUPIED SPACES SHALL BE MOUNTED ABOVE THE CEILING AND PROVIDED WITH A LABEL ON THE CEILING GRID TO INDICATE THE TRAP PRIMER LOCATION. NO TRAP PRIMERS SHALL BE INSTALLED EXPOSED IN NORMALLY OCCUPIED SPACES.
- ROUTE SANITARY PIPING AS HIGH AS POSSIBLE TO AVOID CONFLICT WITH FOOTERS AND TO MAINTAIN ABILITY TO GRAVITY DISCHARGE INTO CITY SEWER. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE EXACT LOCATION OF THE NEW SANITARY SEWER LATERAL AND ENSURE WASTE PIPING IS INSTALLED TO PROVIDE A GRAVITY DISCHARGE INTO THE CITY MAIN.
- THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL ASSOCIATED WASTE AND WATER TAP FEES ASSOCIATED WITH THIS PROJECT. ALL FEES ARE TO BE INCLUDED IN THE CONSTRUCTION COST.
- PLUMBER INSTALLING OXYGEN AND NITROUS OXIDE PIPING SHALL BE A STATE CERTIFIED MEDICAL GAS PIPING INSTALLER. ALL MEDICAL GAS PIPING SHALL BE INSTALLED PER THE REQUIREMENTS NFPA AND THE 2012 INTERNATIONAL PLUMBING CODE.
- ALL WORK INSTALLED SHALL MEET THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION, THE 2012 INTERNATIONAL PLUMBING CODE, AND THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE.

### GAS FIRED CONTINUOUS DOMESTIC WATER HEATER SCHEDULE

UNIT MARK	TOT. GAS INPUT (BTUH)	RECOVERY RATE			ELECTRICAL			REMARKS
		TOT. GPH	RISE °F.	LVG. WTR.	VOLTS	HZ	Ø	
GFWH-1	16,000 TO 199,000	6.2	60°	120°	120	60	1	①②③④

- HOT WATER TEMPERATURE DELIVERY FROM THE WATER HEATERS SHALL BE 120°F.
- BASIS OF DESIGN IS NORITZ NCC1991 SERIES.
- COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
- SEE DETAILS FOR ADDITIONAL REQUIREMENTS. INSTALL PER SPECIFIC MANUFACTURER RECOMMENDATIONS.

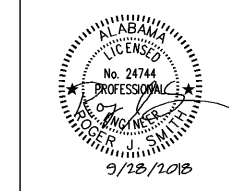
### HOT WATER RECIRCULATION PUMP SCHEDULE

MARK RCP	CONTROL WITH	CAPACITY (GPM)	MAX. HEAD (FT.)	PUMP CONSTRUCTION	MOTOR (HP)	VOLTS	HZ	PHASE	NOTES
1	AQUASTAT	5	20	STAINLESS STEEL	1/5	120	60	1	1, 2, 3, 4

NOTES

- COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
- PROVIDE WITH AQUASTAT WITH A TEMPERATURE SETPOINT OF 105°F.
- PROVIDE WITH 24 HOUR TIME CLOCK. PUMP SHALL OPERATE DURING OCCUPIED HOURS, ELSE IT SHALL BE OFF.
- PUMP SHALL BE SUITABLE FOR POTABLE WATER USE.

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MARK	DATE

SHEET NAME  
**PLUMBING SCHEDULES & NOTES**

PROJECT NO. 2018-16

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