Revised Domestic cold water system. Revised Domestic hot water supply and hot water recirculation system. Sanitary waste and vent system. A complete gas system. This system shall extend and connect to the housther provided by the Utility Company. Alterations, additions and/or removal of existing plumbing systems and fixture the renovated area in order to conform to new space requirements. Installation of toilet room accessories. Core Drilling. Insulation of all existing cold water, hot water, hot water recirculation and systems piping, valves and fittings made bare as a result of asbestos abatemes connecting to existing insulated systems provide new insulation for three feet o side of the new connection. Furnishing of Access Panels. **PLUMBING** A. General: The work cover install, complete and ready fequipment for the Shipyard I F. Guarantee: All materials and equipment furnished and installed under this shall be guaranteed in writing for one (1) year from the date of acceptance building by the Owner. P. Removal Work: Particular care shall be taken to avoid creating hazards on the site or causing disruption of service in the building. All existing equipment to be removed shall be done in a neat and workmanlike manner. All existing equipment to be turned over to the Owner shall be presented to the Owner in good condition at a location designated by the Owner. All other equipment shall be removed from the premises. Remove all abandoned piping and equipment not built into building construction. Where ceiling or walls are removed, all abandoned piping shall be removed and ends of live services capped. Abandoned elements built into walls or located above existing inaccessible ceilings shall remain and ends capped and marked abandoned. ${f L}.$ Disinfection: All domestic water systems shall be disinfected in accordan local Public Health and Plumbing Code requirements. J. Coordination: Coordinate all work installed under this Specification with that of all other trades. G. Record Drawings: The Plumbing Subcontractor shall maintain at the job, at all times, a complete and separate set of blackline prints of the Plumbing Drawings of his trade on which he shall mark clearly, neatly, accurately, and promptly as the work progresses. Two CADD disks, AutoCADD Release 14 or compatible system as well as reproducible As—Builts shall be furnished by the Plumbing Subcontractor at the job completion. E. Instructions: During the assembly and installation of all plumbing systems, the Owner's operating personnel shall be instructed regarding its operation and maintenance. A two (2) hour instruction period shall be provided after completion of project. Operation and maintenance manuals shall be required. C. Codes: All equipment and materials furnished under the Plumbing Sub—Colabor and testing performed herein shall be in complete accordance with the Building, Fuel Gas, Plumbing Codes, Local Ordinances and Regulations of the Portland, National Fire Protection Association and insurance regulations and regoverning such work. A. The work of this Section consists of all labor, provide all Plumbing work complete, in place, as some as necessary for a proper installation. B. The extent of the Plumbing work shall include, D. Permits: Any and all permits required for installa part of the work of this Specification including all B. Shop Drawings: Shop Drawings for shall be submitted to the Architect for D. Contract Drawings: The Contract Drawings are diagrammatic and indicate general arrangements of work. It is not the intent of these Drawings to shous drop, elbow, etc. Any additional work not shown and required to install systems shall be included as part of this Contract. M. Tests: The Plumbing Subcontractor shall perform all tests work, and the results furnished to the Owner and Architect in). Continuity of Services: Services shall be maintained in scupied during the construction period. When an interrupt secessary, such shall be made only upon consent of the Ovorking hours as he shall designate. Refer to the overall project. Schedule work to conform to this schedule and in interfere with the progress of the project. Protection of Property: Protect all new nstallation. Examination of Site: The Plumbing Subcontractor, before submitting price beginning work, shall thoroughly examine the site and Contract Documents. extra compensation will be recognized if difficulties which an examination of substance of the contract Documents prior to executing Contract would have revealed. Inspection: All work shall be subject to the inspection of the Owner, the uch other inspectors having jurisdiction. A properly executed certificate of it hall be provided. Certificates of Approval: Upon completion of all work, the Plumbing Subconall furnish, in duplicate, certificates of inspections from all inspectors and caving jurisdiction, notarized letters from the manufacturers stating that authongineers have inspected and tested the installation of their respective systemame to be in perfect operating condition. Asbestos Removal: Should this Subcontractor or any of its Sub-Subcontractor any asbestos and/or asbestos related products of materials (the auterials) during the performance of its work, this Subcontractor shall stop was mediately and so inform the General Contractor and the Owner of the prespector. SPECIFICATION For Res all specified fixtures, approval. l labor, materials e, as shown on and existing but not be limited to the all tion of any material shu fees or expenses incur work before, during ls and equipment rec n the Drawings, spec at the writing. the **≍** required to ecified herein will be comes butside normal work of the delay nor contractor authorities norized factory ms and found and after all be obtained red. contract and Maine State City of equirements only the w every pipe, the plumbing tures ion of the Specification of the use side of or o claim for te condition with the within Type: 6. **Type:** Schedule 40 black steel pipe end fittings joined by welding Schedule 40 black steel pipe with threaded connections. Schedule 40 galvanized steel threaded connections. No hub cast iron soil pipe and fittings couplings with neoprene gaskets. 1. Cold Water Type 2. Hot Water Supply and Recirculation Type 3. Sanitary Waste and Vent Type 4. Waste and Vent Smaller than 2" Type 5. Gas 2" and smaller Type 6. Gas larger than 2" Type 6. Water Heater Relief Valve Discharge Type 6. Water Heater Safe Pan Discharge Type 6. Water Heater Safe Pan Discharge Type 6. Indirect Waste Piping smaller than 1¼" Type 7. Indirect Waste Piping 1¼" and larger Type 8. Gas Vents Type Type DWV hard drawn seamless copper tubing with 95/5 lead free tin antimony solder. 5. Type: (Waste and Vent smaller than Type: (Potable and Non-potable Water) Type M hard drawn copper tubing with wrought 15/5 lead free tin antimony solder. Cutting and Patching Temporary Power and Lighting Excavation and Backfill Concrete and Masonry Supports and Equ Flashing and Caulking Finish Painting Heating, Ventilating and Air Conditioning Fire Protection Electrical Power and Wiring Furnishing of Toilet Room Accessories Installation of Access Panels Food Service Equipment Laboratory Equipment Laboratory Equipment Foundations and Trenching Electric Heat Tracing Type: Type: Туре: Pipe and fittings and Fittings (Vents) (Sanitary, Waste and Vent, Storm) (Potable and Non-potable ard drawn copper tu (Gas 2" and smaller) (Potable (Gas larger than rd drawn copper tubing with free tin antimony solder. shall be 2") ∍. with wrought joined 2") with 8. Backflow preventers 2 inches and smaller shall be reduced pressure principle, all bronze, Watts Series U-009-QTS for cold water and hot water including bronze strainer, valves, air gap fittings test cocks and spare parts kit. Backflow preventer larger than 2 inches shall be Watts Series 909 or Series 909HW including strainer, valves, air gap fittings test cocks and spare parts kit. Each backflow preventer and shutoff valves shall be installed between 3 and 4 feet above the floor and a minimum of 12 inches from any wall. Support the assembly from the floor or the wall. Run vent to nearest floor drain or similar open receptor. Pressure gauges shall be installed on the supply and discharge side of each backflow preventer assembly. Each pressure gauge assembly shall include TRERICE 600-C gauge, 0-160 psi dial range, 735-2 valve and 872-1 snubber. Furnish to the Owner one Watts TK-9 Model A Test Kit. This Contractor shall act as the Owner's agent in seeking approval from the Department of Environmental Protection or their designee. This Contractor shall submit all Plans, Specifications, and Applications required for approval and shall pay all fees. Approvals shall be secured prior to the purchase and installation of backflow preventers. Test and certify backflow preventer. Cold Water = ½" Hot Water Supply and Recirculation up to 4" = Hot Water Supply and Recirculation larger than Horizontal Roof Drainage = ½" All shut off valves on cold water, hot water and hot 2-1/2 inch and 3 inch shall be Apollo Series 70-200, state, chrome-plated bronze ball, 600 psi WOG. 1. All piping shall be properly supported from the building structure Local Codes and manufacturer's recommendations. Hangers for insu oversized and furnished with a sheetmetal insulation shield to allow through uncut. Provide Schedule 40 pipe sleeves, extend 1 inch abwatertight and pack with material that shall maintain fire rating. Prwhere required and provide fire rated link seal penetration closures. . All shut off valves on cold water, hot water and hot water recirculation piping larger nan three inches shall be Nibco Figure No. F-617-0, flanged ends, iron body bronze nounted, solid wedge, inside screw, non-rising stem, 200 psi WOG. All check valves on cold water, hot water and hot water recirculation ches and less in size shall be Nibco Figure No. S—413—W, solder end, ving check, bronze disc, 200 psi WOG. All shut-off valves on natural gas system 2 inches and smaller shall be Apollo Series—100—07 Massachusetts approved, threaded bronze ball valve, 600 psi WOG. All shutoff ves on natural gas systems 2—1/2 inches and larger shall be Rockwell Fig. 143, mi—steel, lubricated plug valves, flanged ends, wrench operated, 200 psi WOG. Valves Pipe All balancing valves for hot water recirculation shall be the same valves and shall be modified to include balancing stop plate. All drain valves shall be ½ inch Apollo Model 78—103 with Watts No. nection vacuum breaker, cap with chain of length as required. Floor Drains All ball valves for installation altion thickness. Sleeves, Hangers Supports in insulated piping recir end, iture in accordance with insulated piping shall be low the insulation to pass a above floor, make Provide core drilling rculation piping ½ inch, bronze body ball ings and valves shall ind all purpose jacket Zeston Hi—Lo cor retarder mastic. into vertical position nall be insulated with t water and cold secured with nylon ≥. ∵ piping three bronze body 8A hose specified for ns to suit 1. Cleanouts shall be iron body with heavy brass plug and raised nut, same size as pipe for piping up to four inches and not less than four inches in size for piping larger than four inches and closed gas tight. Floor cleanouts in carpeted areas shall have carpet cleanout markers. Floor cleanouts shall not be located beneath partitions, casework, non-portable equipment or similar installation conditions. End cleanouts on no hub cast iron shall be Josam Series 58900-20. End cleanouts on copper waste shall be Nibco 816. Flush floor cleanout shall be Josam Series 56000-2-22-41 in concrete floors. The last flush floor cleanout before exiting the building shall be Josam Series 58910-20. Wall cleanouts and concealed dandy cleanouts on no hub cast iron shall be Josam Series 58910-19 with Series 58890 cleanout plug with center screw length as required. End cleanouts on polypropylene piping shall be Fuseal fitting cleanout adapter with threaded plug. Furnish access panels for access to all concealed parts of the plumbing systems that require accessibility for the proper operation and maintenance of the system. Size shall be sufficient for the purpose, but no less than 12 inches by 18 inches. Access doors shall be prime coated of rust inhibitive paint, continuous hinge and manufactured by Inland Steel Products Company Milcor. I. All plumbing systems shall be labeled at each valve, at each branch, at each pipe passage through wall and at intervals of not more than 20 feet with color coded semi-rigid Setmark pipe markers with arrows indicating the direction of flow. All valves shall be tagged with 1-1/2 inch diameter brass tags and numbered in sequence from point of origin. Valve charts shall be placed under glass, framed and presented to the Owner. Grease Interceptor, JR Smith #8025 25 gpm flow remounted type, epoxy coated steel, manual cleaning, connections and 2" flow control, (as required). 1. Maintenance—free water hammer arrestors shall be furnished and installed in accessible locations at all locations in the water systems where quick acting valves are installed as well as wherever hammer may occur. 2. Water hammer arrestors shall be similar to the following Jay R. Smith model numbers. Sizing and placement shall be in accordance with PDI Standard PDI—WH—201 and the manufacturer's recommendations. a. Mop Receptor: Fiat Model No. MSB-2424 molded stone mop service basis with integral 3 inch stainless steel drain body and strainer. Vinyl bumper guards on exposed sides. Fiat 830-A-A rough plated faucet with vacuum breaker, threaded spout with pail hook and integral stops and 3 inch P trap. I. In general, all plumbing fixtures shall be provided by the kitchen equipment contractor the plumbing contractor shall own final connections with chrome-plated faucets, stops and traps. All supply stop valves shall be brass body and stem and have threaded or sweat solder inlet. Provide wall escutcheons. Fixtures and trim shall be of the same manufacturer. 2. Fixtures designated for barrier free use shall be mounted in accordance with the Americans with Disabilities Act (ADA) as well as State and Local Codes. Water closet flush valves shall be mounted on the wide side of the toilet areas. SA-A SA-B SA-C Туре Grease Interceptor Pipe Identification and Valve Tags Water Han Plumbing Fixtures Access Panels 1-11 12-32 33-60 Fixture Unit Ratings Arrestors (Shock Absorbers) Jay R. Smith 5005 Jay R. Smith 5010 Jay R. Smith 5020 Model rate, 50 lbs. grease capacity, floor g, 3" threaded inlet and outlet

P

Specifications

Plumbing

Scale:

As Noted

Job No.: 07417

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