

PLUMBING SPECIFICATIONS:

SECTION 15010 - GENERAL PROVISIONS

- 1.01 SCOPE OF WORK
WORK SHALL CONSIST OF FURNISHING ALL LABOR AND MATERIALS NECESSARY FOR THE INSTALLATION OF COMPLETE AND OPERATING MECHANICAL SYSTEMS.
- 1.02 EXAMINATION OF PREMISES
VISIT THE PREMISES BEFORE SUBMITTING BID AS NO EXTRAS WILL BE ALLOWED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS. REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SITE CONDITIONS TO THE OWNER PRIOR TO BID.
- 1.03 CODES AND STANDARDS
COMPLY WITH ALL APPLICABLE CODES, LAWS, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS.
- 1.04 EQUIPMENT FURNISHED BY OWNER
NONE
- 1.05 PERMITS, FEES AND NOTICES
PAY FOR ALL PERMITS, FEES, LICENSES AND INSPECTIONS FOR THIS DIVISION. DO NOT INCLUDE THE COST OF THE "PLANT INVESTMENT FEE" FOR SEWER AND WATER OR GAS APPLICATION FEE CHARGED BY THE UTILITY COMPANY.
- 1.06 DRAWINGS
ENGINEERING DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE SCALED FOR DIMENSIONS. INSTALL THE SYSTEMS COMPLETE IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
- 1.07 SUBSTITUTIONS AND APPROVALS
A. SOME MATERIALS ARE SPECIFIED BY MANUFACTURER'S NAME. MATERIALS OF EQUIVALENT QUALITY MAY BE USED IF EQUIVALENT.
B. BIDDER'S CHOICE
MATERIALS OR EQUIPMENT LISTED BY SEVERAL MANUFACTURER'S NAMES ARE INTENDED TO BE BIDDER'S CHOICE, AND ANY OF THE LISTED MANUFACTURER'S MAY BE BID WITHOUT SOLICITING PRIOR APPROVAL.
C. PERFORMANCE SPECIFICATION. WHEN ANY ITEM IS SPECIFIED BY REQUIREMENT TO MEET A PERFORMANCE, INDUSTRY OR REGULATING BODY STANDARD OR IS SPECIFIED BY A GENERIC SPEC. (NO MANUFACTURER'S NAME LISTED) NOT PRIOR APPROVAL BY THE CONSULTING MECHANICAL ENGINEER IS NEEDED UNLESS SPECIFICALLY CALLED FOR IN THESE SPECIFICATIONS.
D. CONTRACTOR TO BE RESPONSIBLE FOR ANY CHANGES AND COSTS TO ACCOMMODATE ANY EQUIPMENT EXCEPT THE FIRST NAMED IN THE SPECIFICATION.
- 1.08 INSTALLATION AND ARRANGEMENT
INSTALL ALL WORK TO PERMIT REMOVAL OF COILS, SHAFTS AND WHEELS, FILTERS, AND ALL OTHER PARTS WHICH MIGHT REQUIRE PERIODIC REPLACEMENT OR MAINTENANCE.
- 1.09 PROTECTION OF WORK AND PROPERTY
BE RESPONSIBLE FOR THE PROTECTION OF EXISTING FACILITIES WHETHER OR NOT SUCH FACILITY IS TO BE REMOVED OR RELOCATED. MOVE OR REMOVE ANY FACILITY SO AS NOT TO CAUSE INTERRUPTION OF THE WORK OR OWNER'S OPERATION.
- 1.10 WARRANTY
A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SPECIFIED. GUARANTEE ALL WORKMANSHIP, MATERIAL AND EQUIPMENT AND REPLACE ANY FOUND DEFECTIVE WITHOUT COST TO THE OWNER, FOR ONE YEAR AFTER FINAL ACCEPTANCE, AS DEFINED IN GENERAL CONDITIONS.
B. EACH WARRANTY FOR LONGER THAN THE ONE YEAR DESCRIBED ABOVE (THAT COMES WITH EQUIPMENT USED ON THE JOB) SHALL BE PASSED ONTO THE OWNER WITH DATES OF START AND END OF WARRANTY.
- 1.11 PROJECT RECORD DRAWINGS
PROVIDE THE ARCHITECT WITH ONE CLEAN SET OF PLANS AND SPECIFICATIONS CORRECTED UP-TO-DATE AS JOB PROGRESSES.

END OF SECTION

SECTION 15190 - IDENTIFICATION

- 1.01 REFERENCES
A. COMPLY WITH ANSI A13.1 - SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS.
- 2.01 MATERIALS
A. PIPE MARKERS: IDENTIFY THE CONTENTS OF THE VARIOUS PIPING SYSTEMS. FLOW ARROWS SHALL CLEARLY INDICATE THE DIRECTION OF FLOW. UTILIZE EITHER OF THE FOLLOWING METHODS:
1. PRESSURE SENSITIVE MARKERS: BRADLEY TYPE B-350 OR B-946, SETON, MSI, CRAFTMARK OR EQUIVALENT FLEXIBLE FILM IDENTIFICATION MARKERS AND TAPE, WITH LEGEND SIZE, COLOR CODING, AND MARKER LENGTH PER ANSI A13.1.
2. STENCILED MARKINGS: OF SIZE AND COLOR PER ANSI A13.1, USING CLEAR CUT STENCILS AND OIL BASE PAINT.
B. TAGS: ALUMINUM OR BRASS 1-1/2 INCH DIAMETER WITH EDGES GROUND SMOOTH AND COLOR CODED TO MATCH PIPING SYSTEM IDENTIFICATION. PUNCH EACH TAG TO RECEIVE THE WIRES. EVENLY SPACE AND STAMP LETTERS (1/4 INCH HIGH) AND NUMBERS (7/16 INCH HIGH) INTO THE METAL.
C. LABELS: WHITE PLASTIC LAMINATE WITH BLACK ENGRAVING, FASTENED WITH BRASS SCREWS. PRESSURE-SENSITIVE EMBOSSED LABELS (DYMO TYPE) ARE NOT ACCEPTABLE. PROVIDE OF UNIFORM SIZE. LABEL ALL EQUIPMENT UNLESS A MANUFACTURER'S LABEL IS FIRMLY ATTACHED.
- 2.02 STENCILS
A. STENCILS OR PRESSURE SENSITIVE MARKERS
1. CONFORM TO THE FOLLOWING SCHEDULE:
- | OUTSIDE DIAMETER OF PIPE OR PIPE INSULATION | LENGTH OF COLOR FIELD | MINIMUM SIZE LETTER |
|---|-----------------------|---------------------|
| 1/2" | 8" | 3/8" |
| 3/4" THROUGH 1-1/4" | 8" | 1/2" |
| 1-1/2" AND 2" | 8" | 3/4" |
| 2-1/2" THROUGH 6" | 12" | 1-1/4" |
- 3.01 PIPING IDENTIFICATION
A. IDENTIFY PIPING IN CRAWLSPACES, ABOVE CEILINGS, ETC. AS WELL AS EXPOSED TO VIEW EXCEPT PIPING IN FINISHED AREAS. PROVIDE IDENTIFYING MARKINGS AT VALVES, FITTINGS, AND EQUIPMENT, AT TERMINAL POINTS, AT EACH BRANCH AND RISER TAKE-OFF, ON PIPES THAT LEAD TO AND FROM UNDERGROUND AREAS, AND AT BOTH SIDES OF PIPING PASSING THROUGH WALLS, CEILINGS, AND FLOORS. IN ADDITION, PROVIDE IDENTIFYING MARKINGS AT 20 FEET O.C. FOR EXPOSED PIPING AND CONCEALED PIPING.
B. FOR PIPES UNDER 1/2" O.D. COLOR CODED IDENTIFICATION TAGS SHALL BE SECURELY FASTENED AT ALL REQUIRED LOCATIONS. TAGS SHALL BE 1-1/2 INCHES IN DIAMETER.
C. IDENTIFICATION OF ALL PIPING SYSTEMS SHALL CONFORM TO THE DESIGNATIONS IN THE LEGEND ON THE DRAWINGS.
D. APPLY DIRECTIONAL FLOW ARROWS ADJACENT TO EACH PIPE MARK.

END OF SECTION

SECTION 15250 - INSULATION

- 1.01 PIPING AND EQUIPMENT
A. DOMESTIC COLD WATER PIPE, VALVES AND FITTINGS.
1. INSULATE WITH U.L. APPROVED, FLAME RESISTANT, WHITE VAPOR BARRIER JACKETED, GLASS FIBER SNAP-ON INSULATION 1" THICK. INSULATE VALVES AND FITTINGS WITH GLASS FIBER BLANKET INSULATION AND PREMOULDED PVC COVERS (COVERS TO BE U.L. 25/50 RATED). WHERE THE USE OF PVC COVERS IN PLENUMS, ETC., IS RESTRICTED BY VARIOUS LOCAL CODES VALVES AND FITTINGS SHALL BE INSULATED BY WRAPPING WITH BLANKET INSULATION. COVER BLANKETS TO SAME DEPTH AS THE PIPE INSULATION WITH INSULATING CEMENT, TROWELED SMOOTH. IT IS THE CONTRACTOR'S AND MANUFACTURER'S RESPONSIBILITY TO ASSURE THEMSELVES THAT THE CODE AUTHORITY WILL APPROVE ANY PRODUCT TO BE INSTALLED ON THE PROJECT.
B. DOMESTIC HOT WATER PIPING AND FITTINGS.
1. ALL HOT WATER SUPPLY LINES AND CIRCULATING WATER LINES INSULATE WITH U.L. APPROVED, FRAME RESISTANT, WHITE ALL SERVICE JACKETED, GLASS FIBER SNAP-ON PIPE INSULATION 1" THICK. INSULATE FITTINGS WITH GLASS FIBER BLANKET INSULATION AND PREMOULDED PVC COVERS.
C. HANDICAPPED FIXTURES
1. INSULATION OF PIPES UNDER HANDICAPPED LAVATORIES: INSULATE ANGLE STOP ASSEMBLIES AND DRAIN LINES WITH FOAM INSERT COVERED WITH 1/8" MINIMUM ABRASIVE RESISTANT EXTERIOR COVER WITH FASTENERS LOCATED OUT OF SIGHT, BROCAR TRAP WRAP KIT 500R AND 500HS, OR EQUIVALENT.

END OF SECTION

SECTION 15400 - PLUMBING

- 1.01 WATER PIPING
A. PIPING (INSIDE BUILDING)
1. NON-BURIED LINES, TYPE "L" COPPER WATER TUBE, WROUGHT COPPER FITTINGS AND 88-4 (TIN/SILVER) OR CANFIELD 100% WATERSAFE (SILVER-TIN COPPER) SOLDER.
2. VALVES AND SPECIALTIES
GATE VALVES: BRONZE, CLASS 125, 200 LB. W.O.G.
BALL VALVES: BRONZE, FULL PORT, 400 LB. W.O.G.
GLOBE VALVES: BRONZE, CLASS 125, 200 LB. W.O.G.
SWING CHECK VALVES: BRONZE, CLASS 125, 200 LB. W.O.G.
FURNISH AND INSTALL A DIELECTRIC UNION AT ALL CONNECTIONS WHERE FERROUS MATERIAL IS CONNECTED TO NON-FERROUS MATERIAL.
STRAINERS: 250 LB. SEMI-STEEL OR CAST IRON "Y" TYPE W/STAINLESS STEEL SCREEN.
PRESSURE TEMP. TAPS: UNIVERSAL CONTROLS CORPORATION #45-PT-N.SISCO BNO-500 1/2 NPT, NORDIE CORE.
3. CPVC PIPING MAY BE UTILIZED IF ACCEPTABLE BY LOCAL CODE AUTHORITY. CPVC SHALL BE SCHEDULE 40 AND SHALL BE MANUFACTURED FROM A TYPE IV, GRADE I CHLORINATED POLYVINYL CHLORIDE COMPOUND WITH A MINIMUM CELL CLASSIFICATION OF 23447 PER ASTM D1784. THE PIPE SHALL HAVE A FLAME SPREAD RATINGS OF LESS THAN 25 AND A SMOKE DEVELOPMENT RATING OF LESS THAN 50.
- 1.02 WASTE AND VENT PIPING
A. MATERIALS; WASTE AND VENT PIPING (INSIDE BUILDING)
1. WASTE LINES ABOVE GROUND; STD. WT., C.I. SOIL PIPE AND FITTINGS OR HUBLESS, C.I. SOIL PIPE AND FITTINGS. UP THRU 2-1/2" MAY BE STD. WTG., GALV. STEEL PIPE W/BLACK, C.I. DRAINAGE FITTINGS.
2. VENT LINES ABOVE GROUND; STD. WT., C.I. SOIL PIPE AND FITTINGS, HUBLESS C.I. SOIL PIPE AND FITTING OR, STD. WT., GALV. STEEL PIPE W/150 LB., GALV. MALL. IRON FITTINGS FOR LINES 1-1/2" AND OVER, FOR LINES 1-1/4" AND LESS, BLACK, C.I. 125 LB. SWP FITTINGS.
3. ALL WASTE AND VENT PIPING ABOVE GRADE MAY BE DWV COPPER PIPE AND FITTINGS USING SOLDER SPECIFIED ABOVE FOR WATER PIPING.
4. WASTE AND VENT PIPING MAY BE PVC DWV PIPE WITH SOLVENT WELD DWV FITTINGS IF ACCEPTABLE TO THE PLUMBING INSPECTION AUTHORITY. PVC PIPING INSTALLATION SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR COUPLING PREPARATION AND INSTALLATION CONDITIONS.

END OF SECTION

FIXTURE SPECIFICATIONS:

WALL CLEANOUTS (WCO):

FIXTURE: ZURN COMPANY #Z-1446, COATED CAST IRON CLEANOUT TEE, HUB AND SPIGOT CONNECTION, BRONZE PLUG.

COVER: ROUND STAINLESS STEEL WALL ACCESS COVER WITH SCREW.

FLOOR CLEANOUTS (FCO):

FIXTURE: ZURN COMPANY #Z-1444, COATED CAST IRON CLEANOUT TEE, HUB AND SPIGOT CONNECTION, BRONZE PLUG.

COVER: ROUND STAINLESS STEEL WALL ACCESS COVER WITH SCREW.

PLUMBING LEGEND

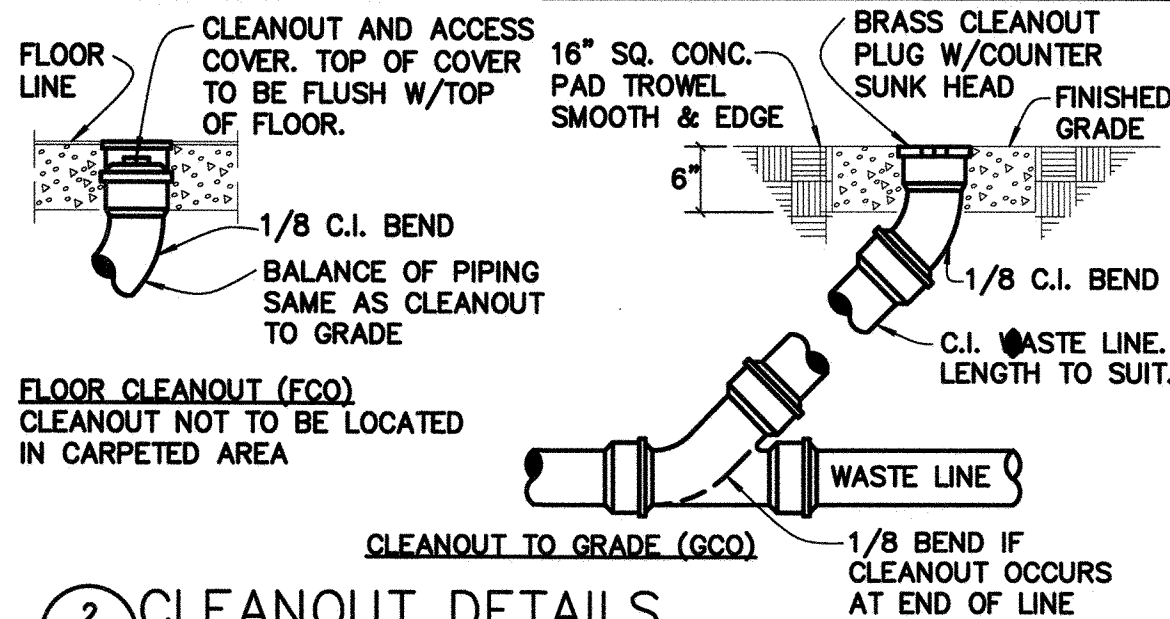
	GATE VALVE		COLD WATER
	PLUG OR BALANCING VALVE		HOT WATER
	SAFETY RELIEF VALVE		HOT WATER CIRCULATING
	BALL VALVE		CA - COMPRESSED AIR
	PRESSURE REDUCING VALVE		VAC - VACUUM
	TEMPERATURE CONTROL VALVE, 2-WAY		FCW - FILTERED COLD WATER
	PIPE CAP		G - GAS
	(CO) PIPE CLEANOUT		PLUMBING VENT PIPE
	(WCO) WALL CLEANOUT		WASTE PIPE
	(FCO) FLOOR CLEANOUT		D - DRAIN
	FLOOR DRAIN WITH TRAP PRIMER		POINT OF PIPE CONNECTION NEW TO EXISTING

NOTE

ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED ON THIS PROJECT.

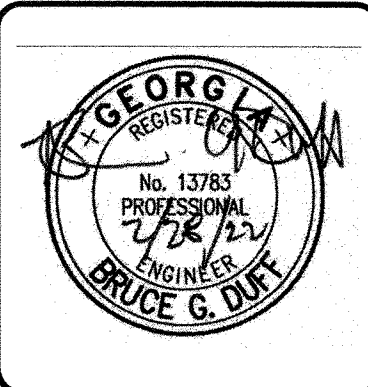
ABBREVIATIONS

A/C	ABOVE CEILING	COND.	CONDENSATE
AFF	ABOVE FINISH FLOOR	CW	COLD WATER
AD	AREA DRAIN	DP	DRAIN PIPE
B/F	BELOW FLOOR	NG	NATURAL GAS
B/G	BELOW GRADE	SAN	SANITARY DRAINAGE PIPE
B/S	BELOW SLAB	GV	GATE VALVE
BV	BALANCING VALVE	VS	VENT STACK



2 CLEANOUT DETAILS
P-1 NO SCALE

ISSUE / REVISIONS
0 (2-28-22) ISSUE FOR PERMIT AND CONSTRUCTION



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DATE

28 Feb. 2022

DRAWING TITLE

PLUMBING

SPECIFICATION

AND DETAILS

SHEET NO.

P-1.0

RELEASED FOR
CONSTRUCTION