

	SANITARY SEWER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	VENT
	PIPE DOWN
	PIPE UP
	BALL VALVE
	WALL HYDRANT
	PLUMBING PLAN NOTE

ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
CLG	CEILING
CO	CLEANOUT
CW	DOMESTIC COLD WATER
DEG F	DEGREES FAHRENHEIT
DN	DOWN
DWH	DOMESTIC WATER HEATER
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
FR	FROM
GA	GAUGE
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM
NTS	NOT TO SCALE
OPG	OPENING
SAN	SANITARY SEWER
VTR	VENT THROUGH ROOF
W/	WITH
WH	WALL HYDRANT

- A. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE UNIFORM STATEWIDE BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS AND IN ACCORDANCE WITH MANDATES OF THE LOCAL BUILDING OFFICIALS.
- B. THE GENERAL ARRANGEMENT AND LOCATIONS OF PIPING, FIXTURES, ETC. ARE INDICATED BY THE DRAWINGS AND SHALL BE INSTALLED IN ACCORDANCE THEREWITH, WITH THE EXCEPTION OF SUCH CHANGES AS MAY BE REQUIRED ON ACCOUNT OF OTHER TRADES. CONTRACTOR SHALL COORDINATE WORK WITH INSTALLATION OF OTHER SUBCONTRACTORS.
- C. PLUMBING WORK SHALL BE COORDINATED WITH THE CONTRACTOR AS TO SCHEDULING, DIMENSIONING AND LOCATION OF EQUIPMENT.
- D. MAJOR ITEMS ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INCIDENTAL ITEMS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
- E. SUBSTITUTION FOR SPECIFIED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
- F. ALL REQUIRED WALL OR FLOOR OPENINGS SHALL BE COORDINATED WITH THE CONTRACTOR.
- G. ALL PIPING SHALL BE ABOVE CEILING OR CONCEAL WITHIN WALLS UNLESS INDICATED OTHERWISE.
- H. ALL EQUIPMENT SHALL BE WIPED CLEAN, REMOVING ALL TRACES OF OIL, DIRT, OR PAINT SPOTS.
- I. PROVIDE SUPPORTS TO RIGIDLY ATTACH ALL EQUIPMENT, APPURTENANCES AND PIPE AS REQUIRED FOR SUPPORT. PRIOR TO INSTALLATION OF HANGERS AND INSERTS, THE CONTRACTOR SHALL COORDINATE LOCATIONS AND EQUIPMENT TO MINIMIZE CONFLICTS WITH OTHER BUILDING SYSTEMS.
- J. CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT INDICATED TO BE FURNISHED BY OTHERS.
- K. ALL PIPE OF THE SAME SIZE SHALL BE OF THE SAME MATERIAL.
- L. SLOPE ALL DRAIN LINES 1/4 INCH PER FOOT MINIMUM FOR SIZES LESS THAN 4 INCHES, SLOPE 1/8 INCH PER FOOT SIZES 4 INCHES AND LARGER UNLESS INDICATED OTHERWISE BY INVERTS ON DWGS.
- M. SOIL, WASTE AND VENT PIPING LOCATED BELOW GRADE SHALL BE MINIMUM 2 INCHES.
- N. VENTS SHALL EXTEND 12 INCHES ABOVE ROOF. ROOF FLASHING SHALL BE COORDINATED BY THE CONTRACTOR.
- O. DOMESTIC HOT AND COLD WATER PIPING SHALL BE 1/2 INCH SIZE UNLESS INDICATED OTHERWISE.
- P. BALL VALVES SHALL BE USED IN LIEU OF GATE VALVES 2 INCHES OR SMALLER.
- Q. ALL EXPOSED FIXTURE SUPPLIES AND WASTE LINES SHALL BE CHROME PLATED.
- R. PRODUCE SET OF AS-BUILT DRAWINGS INDICATING EXACT TO-SCALE LOCATIONS AND SIZES OF PIPING INCLUDING LOCATION OF SHUT-OFF VALVES. MAINTAIN A MINIMUM OF ONE INTACT SET OF PROJECT PLANS MARKED TO SHOW WORK INSTALLED AND THAT CLEARLY SHOWS ALL PIPING CONCEALED BELOW FLOOR AND BEHIND FINISHES.

1.0 GENERAL

1.01 THE CONTRACT DOCUMENTS APPLY TO THESE SPECIFICATIONS.

1.02 PROVIDE ALL NECESSARY LABOR AND MATERIALS FOR THE WORK SHOWN ON THE DRAWINGS, WHICH INCLUDES INSTALLATION OF ALL PLUMBING PIPING AND FIXTURES.

1.03 WORK SHALL MEET REQUIREMENTS OF LOCAL BUILDING CODES AND ORDINANCES, APPLICABLE REQUIREMENTS OF THE VUSBC, NFPA, AND REQUIREMENTS OF LOCAL PLUMBING CODE.

1.04 SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:

A. PLUMBING FIXTURES & EQUIPMENT

B. INSULATION

1.05 PLACING IN SERVICE:

A. BEFORE BEING PLACED INTO OPERATION, ALL EQUIPMENT REQUIRING PREOPERATIONAL ATTENTION SHALL BE SERVICED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS.

2.0 PRODUCTS

2.01 PIPE AND PIPE FITTINGS

A. COPPER TUBE TYPE L: ANSI/ASTM B88.

B. PVC PIPE: SCH. 40, GRADE PVC 2116: ASTM D1785 AND ASTM D2241. CELLULAR CORE PVC SHALL NOT BE ALLOWED.

C. NO HUB CAST IRON TO MATCH EXISTING WHERE REQUIRED FOR REPAIR OF EXISTING.

2.02 PIPING SYSTEM SHALL BE SUPPORTED IN ACCORDANCE WITH ANSI B31.1 AND APPLICABLE MANUFACTURERS STANDARDIZATION SOCIETY (MSS) STANDARDS "POWER PIPING" SO AS TO MAINTAIN REQUIRED PITCH OF LINES, PREVENT VIBRATION AND PROVIDE FOR EXPANSION AND CONTRACTION MOVEMENT.

SERVICE	SIZE	PIPE TYPE	FITTING TYPE	VALVE TYPE	MFG. NO. & NOTES
DOMESTIC COLD WATER SUPPLY	2-1/2" & SMALLER	TYPE L COPPER HARD DRAWN	PROPRESS	BALL	1, 2
DOMESTIC HOT WATER SUPPLY & RETURN	2 IN. & SMALLER	TYPE L COPPER HARD DRAWN	PROPRESS	BALL	1, 2
SOIL, WASTE & VENT ABOVE GROUND	1-1/2" & LARGER	SCHEDULE 40 PVC	SOLVENT WELDED		

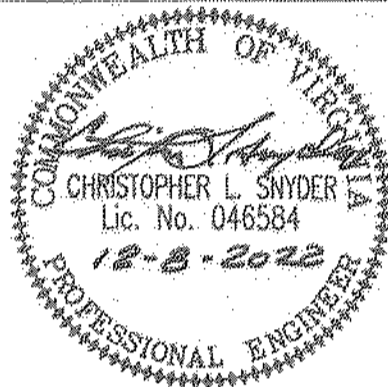
1. SERIES 82LF BRONZE APOLLO 3 BY CONBRACO.
2. REFER TO INSULATION SPECIFICATION FOR FINISH.

SERVICE	TYPE INSULATION	THICKNESS (IN.)	FINISH IN CONCEALED AREAS	FINISH IN EXPOSED AREAS	NOTES
(1) PIPING					
DOMESTIC HOT WATER	GLASS FIBER	1.0	INTEGRAL FIRE RETARDANT ASJ		1
DOMESTIC COLD WATER	GLASS FIBER	1.0	INTEGRAL FIRE RETARDANT VAPOR BARRIER ASJ		1
EXPOSED DOMESTIC WATER & SANITARY BELOW LAVATORY					2

1. APPLY FLEXIBLE GLASS FIBER INSULATION IN CONCEALED AREAS ONLY.
2. SEE PLUMBING FIXTURE SCHEDULE.



WESTERN  
VIRGINIA WATER  
AUTHORITY



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF AN INDIVIDUAL STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SOUTHLAKE WATER  
SYSTEM

## CONTRACT 1: WATER TREATMENT PLANT

## CONTRACT 2: WATER MAIN

[illegible]

## PLUMBING LEGEND, NOTES & SPECIFICATIONS

Designed By: CLS	Drawn By: ATE/WJC	Checked By: CLS
Issue Date: 12/08/22	Project No: 073612	Scale: AS NOTED

Drawing No.:

**P-001**