



Fluor-BWXT Portsmouth LLC
P. O. Box 548
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740-897-5994

FBP-17-0217
March 6, 2017

Ms. Janet Barth, Manager
Ohio EPA
Division of Drinking and Ground Waters
Southeast District Office
2195 Front Street
Logan, Ohio 43138

Subject: Contract No. DE-AC30-10CC40017: Lead Service Line and Fixture Mapping Project Response-Fluor-BWXT Portsmouth LLC PWS ID OH6632414

Reference: Ohio EPA Letter Dated 1/17/17 from Michael Baker to Fluor B&W Portsmouth, Lead Service Line and Fixture Mapping Project-Required by all Community and Nontransient Noncommunity PWSs by March 9, 2017

Dear Ms. Barth:

This letter is in response to the Ohio Environmental Protection Agency letter on lead service line and fixture mapping dated January 17, 2017, as required by Ohio House Bill (HB) 512.

The following are attached to this letter:

- Maps showing site lead and copper sampling locations (Attachment 1)
- Ohio EPA spreadsheet for lead and copper sample sites (Attachment 2)
- Construction specifications for gas centrifuge enrichment plant process facilities built in the early to mid-1980s (Attachment 3)
- Current site specifications for the installation of copper tubing in potable water systems (Attachment 4)
- Signed verification form for public water systems claiming no lead service lines (Attachment 5)

This material is also being supplied to the Ohio Department of Health and the Ohio Department of Jobs and Family Services, as required.

Tier 1 lead and copper sample sites were selected for our initial monitoring period in September 1993 from the gas centrifuge enrichment plant (GCEP) because those facilities were constructed in the same time frame as the Tier 1 definition, after 1982 with some of the buildings having copper plumbing. GCEP buildings XT-801, X-1000, X-3000, X-1007, X-7721, and X-3012 were all field verified to have copper plumbing installed after 1982, and therefore,

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are Tier 1 sites. Please reference the enclosed maps, Plant Site Sanitary Fire Water Map X-230A-34-C and color-coded X-230A-34-C for the locations of buildings which are color-coded in yellow. The enclosed construction specification X-TS-15500-3000 Plumbing Piping Systems for the Gas Centrifuge Enrichment Plant Process Facilities also describes the usage of copper plumbing. Current sample monitoring points are identified in the enclosed spreadsheet for Lead and Copper Sample Sites.

There are no lead service lines on plant site. Please see the enclosed Verification Form for Public Water Systems Claiming No Lead Service Lines. The current Fluor-BWXT Portsmouth LLC construction specification for the installation of copper piping in potable and process water systems, FBP-CSPEC-15051F124 Rev 0, which requires that lead containing solder not be used, is also enclosed.

If additional information is required, please contact me at 740-897-5994.

Regards,

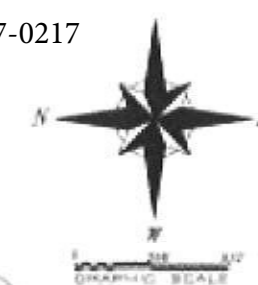
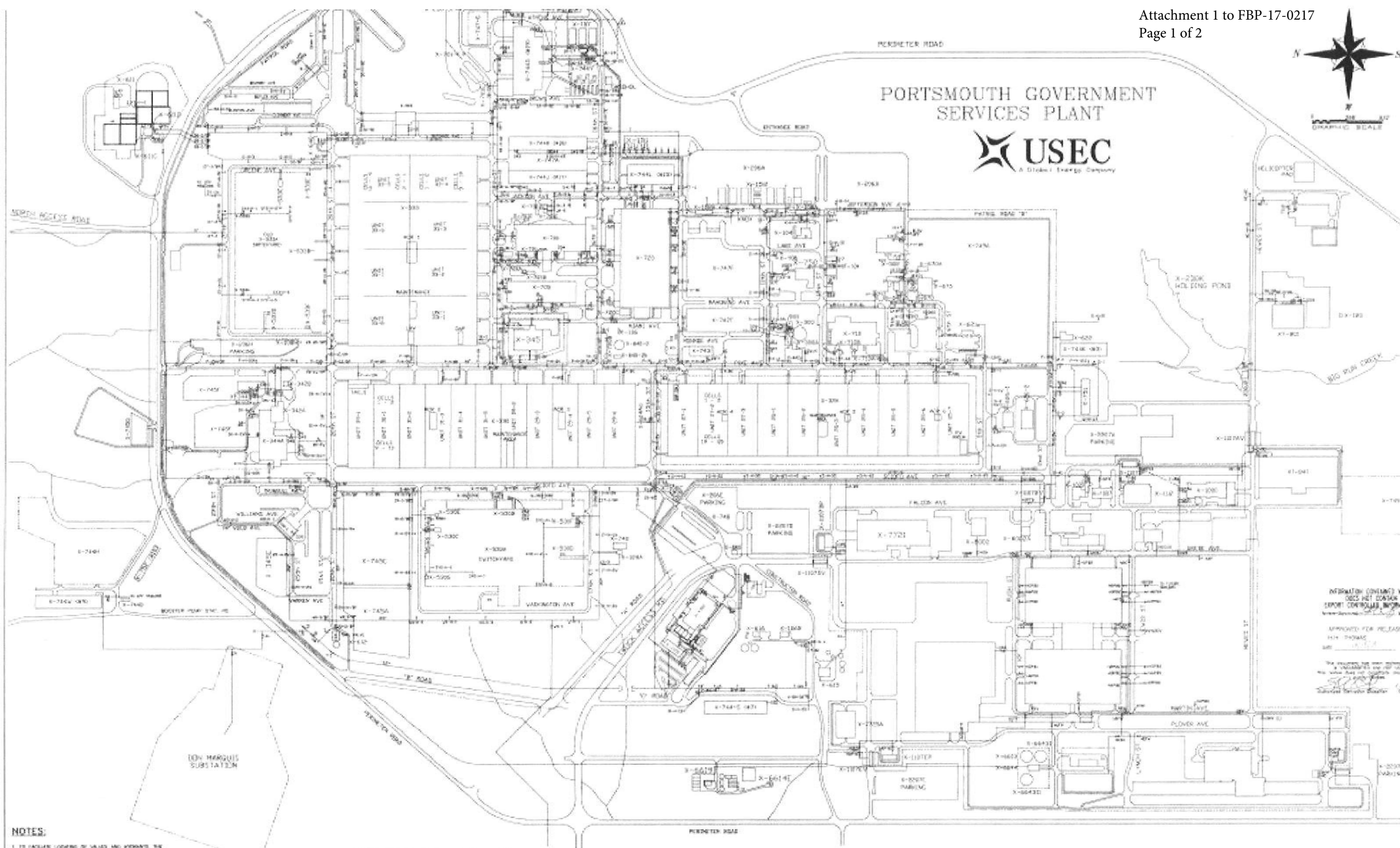


Wendell Jenkins, Utilities Engineer
Operator of Record, WS3-1013543-80
Fluor-BWXT Portsmouth LLC

WJ/kh

- Attachments:
- 1) X-230A-34-C, Site Maps Lead and Copper Sampling Locations
 - 2) Ohio EPA Spreadsheet for Lead and Copper Sample Sites
 - 3) Specification X-TS-15500-3000, ORO-Gas Centrifuge Enrichment Plant Process Facilities
 - 4) FBP-CSPEC-15051F124 Rev 0, Sanitary (Potable) Water & Process Water (Copper Tubing)
 - 5) Signed Verification Form For Community Public Water Systems Claiming No Lead Service Lines





cc:	Joel Bradburne, DOE	Stephanie McLaughlin, FBP
	Amy Lawson, DOE	Doug Fogel, FBP
	Judson Lilly, DOE	Carl Faub, FBP
	Kristi Wiehle, DOE	Frank Johnston, FBP
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	Jeff Stevens, FBP	RMDC@fbports.com
	Ohio Department of Health (BEH@odh.ohio.gov)	
	Ohio Department of Job and Family Services (jeffery.vandeusen@jfs.ohio.gov)	

PORTSMOUTH GOVERNMENT
SERVICES PLANT

NOTES:

1. TO FACILITATE LOCATING OF VALVES AND INSTRUMENTS THE PLANT HAS BEEN GROUPED INTO SECTIONS. THE FIRST TWO ARE THE MAIN INLET AND THE LAST TWO ARE THE MAIN OUTLET.
2. FIRE HYDRANTS HAVE A SUCCTION VALVE BETWEEN THE MAIN AND FIREMAIN.
3. MAINS (WATER) ARE MAINLY MADE UP OF 15" AND 24" MAINS WITH BRANCHED VALVES (TYPICAL).
4. TYPICAL COOL. WATER - 15" - 1.5" - 1.5" - 1.5" FROM FIRE MAINS TO FIRE MAINS.
5. TYPICAL COOL. WATER - 15" - 1.5" - 1.5" - 1.5" FROM FIRE MAINS TO FIRE MAINS.
6. ALL COOL. WATER MAINS HAVE VALVES AT THE MAINS AND AT THE MAINS.

SANITARY WATER LEGEND

- 
 SSB

 DSB

 Nick

 Gap

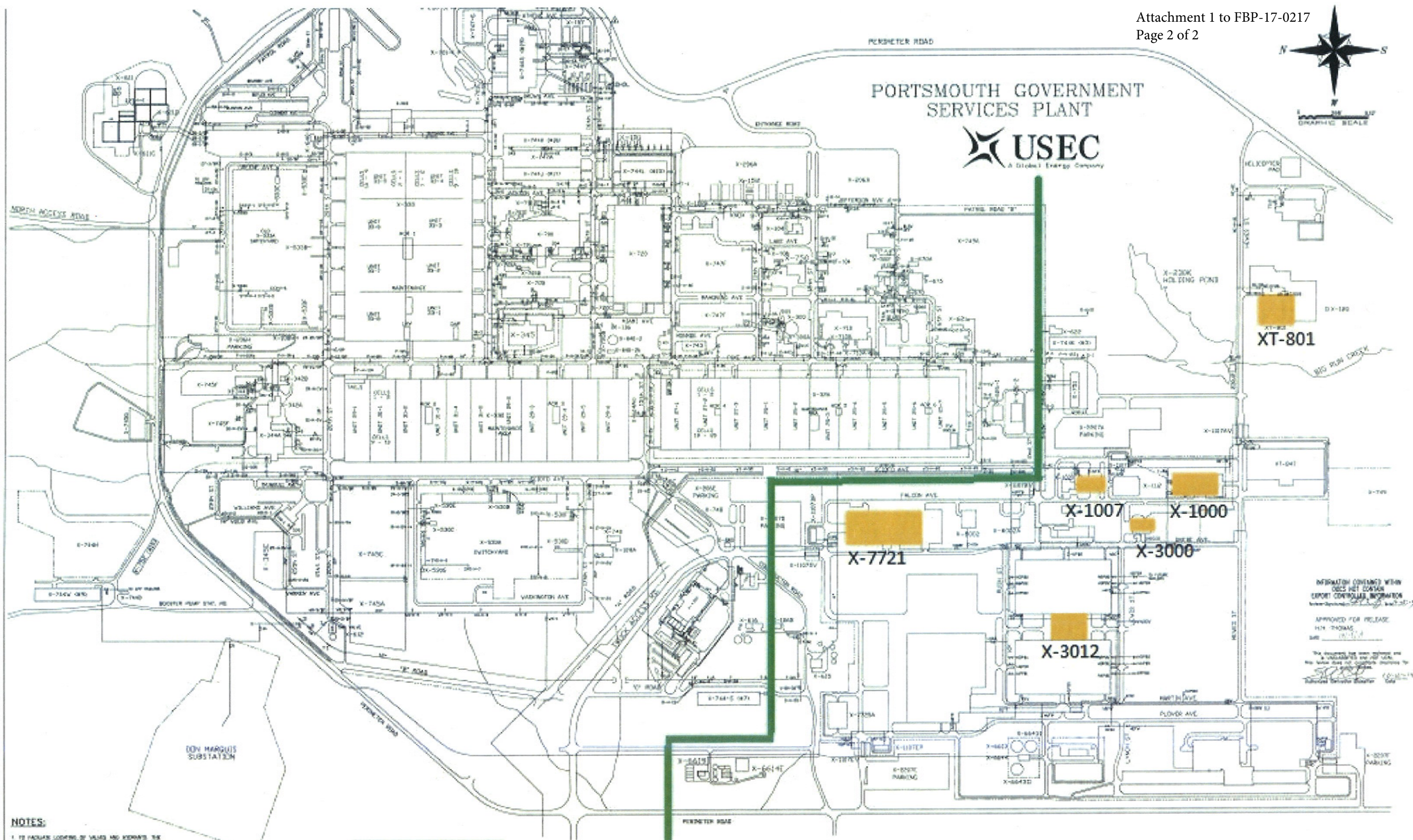
DISCLAIMER:

THE DATA CONTAINED ON THIS CHARTING IS FOR INFORMATIONAL PURPOSES ONLY AND IS ONLY TO BE USED FOR GENERAL REFERENCE. THE DATA CONTAINED ON THIS CHARTING MAY NOT REFLECT THE LATEST INFORMATION AVAILABLE.

REFERENCES

OPEN CHANGES

[illegible]



NOTES:

1. PLANTER LOCATIONS OF VALVES ARE SHOWN BY PLANT MAP WITH DOTTED AND DASHED LINE. DOTTED LINE INDICATES 12" AND 18" SIZES. DASHED LINE INDICATES 24" SIZES.
2. THE HYDRAULIC LOSS IS SHOWN IN FEET BETWEEN THE VALVE AND THE PUMP.
3. VALVES MARKED WITH HANDED UP AND DOWN. DOWN VALVE IS OPEN VALVE (TYPICAL).
4. TYPICAL CODE: 1000-1-1-E, 2000 - 10" FROM PNE. AIR. 1000" OF PNE. AIR.
5. TYPICAL CODE: 1000-1-1-E, 2000 - 10" FROM PNE. AIR. 1000" OF PNE. AIR.
6. ALL 2000 SANITARY WATER VALVES SHALL BE PROVIDED THE LETTER "C-20".

SANITARY WATER LEGEND

- 1. PNE. PNE. AIR
- 2. CAR. VALVE
- 3. POST. PNE. AIR (SECTION)
- 4. POST. PNE. AIR (PNE.)
- 5. 1000-1-1-E, 2000

DISCLAIMER:

THE DATA CONTAINED ON THIS CHARTING IS FOR INFORMATIONAL PURPOSES ONLY AND IS ONLY TO BE USED FOR GENERAL REFERENCE. THE DATA CONTAINED ON THIS CHARTING MAY NOT REFLECT THE LATEST INFORMATION AVAILABLE.

REFERENCE DRAWINGS		OPEN CHANGES		C.S. DOOR		UNITED STATES ENRICHMENT CORPORATION	
2	AS-BUILT FOR ESD 13891	SMV/RSN	11/1/11	11/1/11	11/1/11	U.S. ENRICHMENT CORPORATION	U.S. ENRICHMENT CORPORATION
1	AS-BUILT FOR ESD 13891	SMV/RSN	11/1/11	11/1/11	11/1/11	U.S. ENRICHMENT CORPORATION	U.S. ENRICHMENT CORPORATION

U.S. ENRICHMENT CORPORATION
UNITED STATES ENRICHMENT CORPORATION
P.O. BOX 1028
PORTSMOUTH, OHIO 43081-1028
PLANT SITE
4000 E. 1000 N. RD. WYOMING, WY 83094

EOB FRIY 024 488

ORO - GAS CENTRIFUGE ENRICHMENT PLANT
PROCESS FACILITIES

COPPER PLUMBING

X-3000

SPECIFICATION X - TS -15500 -3000-
PLUMBING PIPING SYSTEMS

REVISION NUMBER	DATE	APPROVED BY	DATE
0 CFC	5-18-81	Fluor: Originator: <i>A. J. Seely</i> Checker: <i>W. J. Seely</i> Lead Engineer: <i>Ray Ding Ching</i> Engineering Manager: <i>Fred P. Brubaker</i> Project Director: <i>TD Mallick</i> Operating Contractors Project Office: <i>W. Brubaker for W. J. Seely</i> Department of Energy: <i>E. R. Phillips</i>	 5-18-81 5-18-81 5-18-81 5-19-81 5-19-81 6-1-81 6-1-81
		Fluor: Originator: _____ Checker: _____ Lead Engineer: _____ Engineering Manager: _____ Project Director: _____ Operating Contractors Project Office: _____ Department of Energy: _____	
		Fluor: Originator: _____ Checker: _____ Lead Engineer: _____ Engineering Manager: _____ Project Director: _____ Operating Contractors Project Office: _____ Department of Energy: _____	

B13 FR27 024 488

U.S. DEPARTMENT OF ENERGY
Gas Centrifuge Enrichment Plant
Portsmouth, Ohio
DOE Contract DE-AC05-78OR05629FLUOR ENGINEERS AND CONSTRUCTORS, INC.
Advanced Technology Division
Fluor Contract 466604X-TS-15500-3000
Revision 0PLUMBING PIPING SYSTEMS

2.01 B. (Continued)

<u>Symbol</u>	<u>Service</u>	<u>Conditions</u>		<u>Material</u>	<u>Remarks</u>
		<u>PSIG</u>	<u>°F</u>	<u>Section</u>	
FWD	Fire Protection Water (Under- ground)	130	150	F105	Carbon Steel Buttweld, Coated and Wrapped
SS,W,V RD,R,OW	Sanitary Sewer (Underground & Aboveground) Waste, Vent & Roof Drainage (Underground) Recirculating Heating Water Drain & Oily Water Drain (Underground)	Atm	Amb	F109	Cast Iron Soil Pipe with Rubber Gasket Joints
W&V	Waste and Vent (Aboveground)	Atm	Amb	F109	Carbon Steel with Screwed Joints
RD	Roof Drainage (Aboveground)	Atm	Amb	F110	Carbon Steel Buttweld
SW	Sanitary (Potable) Water (Underground)	90	Amb	F123	Carbon Steel with Screwed Joints coated and Wrapped
SW	Sanitary (Potable) Water (Aboveground)	90	Amb	F124	Copper Tubing with solder Joints

Material Section F105 - Fire Protection Water

<u>Item</u>	<u>Size</u>	<u>Specification</u>
Pipe	6"	Schedule 40 seamless or electric resistance welded steel, ASTM A53, Grade B and shall be coated and wrapped in accordance with X-TS-15076-3000.
Fittings	6"	Standard weight seamless steel, butt-weld ends, ASTM A234, Grade WPB.

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U.S. DEPARTMENT OF ENERGY
Gas Centrifuge Enrichment Plant
Portsmouth, Ohio
DOE Contract DE-AC05-78OR05629

FLUOR ENGINEERS AND CONSTRUCTORS, INC.
Advanced Technology Division
Fluor Contract 466604

X-TS-15500-3000
Revision 0

PLUMBING PIPING SYSTEMS

2.01 B. (Continued)

Material Section F110 - Roof Drainage (Aboveground) (Continued)

<u>Item</u>	<u>Size</u>	<u>Specification</u>
Grooved Coupling	4"	Victaulic style 77 with malleable iron housing conforming to ASTM A47, enamel coating and BUNA-N gasket.
Adapter Nipple	4"	Victaulic No. 42 schedule 30 carbon steel conforming to ASTM A53 Type E or S Grade B with grooved X beveled ends.

Material Section F123 - Sanitary Potable Water (Underground)

<u>Item</u>	<u>Size</u>	<u>Specification</u>
Pipe	2" and under	Steel, butt-welded pipe with threaded ends, galvanized, Schedule 40, conforming to ASTM A120 and coated and wrapped in accordance with X-TS-15076-3000.
Fittings	2" and under	Malleable iron galvanized, 150 lb., ASTM A197, screwed ends, ANSI B16.3.
Couplings	2" and under	Malleable iron galvanized, 300 lb., ASTM A197.
Unions	2" and under	Malleable iron galvanized, 150 lb., ASTM A197, screwed ends, brass to iron seats. Dimensions per manufacturer's standards.
Thread Tape		Permacel P-412 ribbon dope Teflon thread sealant.

Material Section F124 - Sanitary Potable Water (Aboveground)

<u>Item</u>	<u>Size</u>	<u>Specification</u>
Tubing	1/2" to 2"	Copper, seamless water tube, hard drawn, ASTM B88, Type L.
Fittings	1/2" to 2"	Copper, seamless, wrought type, solder joint per ANSI B16.22.
Tape (for screwed joints)		Permacel P-412 ribbon dope Teflon thread sealant
Solder		50 tin/50 lead solid wire, conforming to ASTM B32, Grade 50-A

15500-10

007 PR35 024 498

U.S. DEPARTMENT OF ENERGY
Gas Centrifuge Enrichment Plant
Portsmouth, Ohio
DOE Contract DE-AC05-78OR05629

FLUOR ENGINEERS AND CONSTRUCTORS, INC.
Advanced Technology Division
Fluor Contract 466604

X-TS-15500-3000
Revision 0

PLUMBING PIPING SYSTEMS

3.03 (Continued)

C. Soldered

1. All bores and depths of soldered fittings shall conform to the dimensions in ANSI B16.18 and ANSI B16.22.
2. All tubing shall be new, straight, uniformly round, free from all blisters, flats or dents, and all ends shall be reamed to full inside diameter after cutting and before erecting.
3. The average clearance between surfaces to be joined shall not be greater than 0.004 inches or a diametral clearance of 0.008 inches.
4. All piping shall be accurately cut to proper length with square ends using a tube cutter or hack saw and miter box, and the surfaces being joined shall be cleaned thoroughly down to bright bare metal before fluxing. Flux shall be applied sparingly, but sufficiently, to cover the surfaces, and heat shall be applied with due caution to prevent glazing of flux. All joints shall be made using 50 tin/50 lead solid wire solder meeting the requirements of ASTM B32, Grade 50-A and "No-Korode" non-corrosive solder flux.
5. The joint shall be brought to soldering temperature in as short a time as possible to minimize oxidation without localized underheating or overheating.
6. All valves to be soldered shall be disassembled prior to soldering and all packing removed. After soldering the valves shall be allowed to cool before reassembling.

D. Welded

All joints shall be made in accordance with X-TS-15920-3000.

3.04 INSULATION

Horizontal roof drainage piping above ceilings and aboveground potable hot and cold water piping, except chrome plated fixture supply lines shall be insulated. Insulation shall be applied in accordance with manufacturer's printed instructions over clean, dry pipe after all testing is completed.

3.05 SUPPORTS AND RESTRAINTS

- A. Supports shall be designed and installed by the Contractor. Welding and non-destructive examination shall be in accordance with X-TS-15950-3000.

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X-T 801

DIVISION 15 - MECHANICAL

SECTION 15050 - PIPING WORK, PIPE, FITTING AND VALVES

1.01 SCOPE OF WORK

- A. See also Section 15010, "Supplementary Mechanical General Requirements".
- B. Work required under this Section of Specifications includes all materials, work, labor and services necessary to completely install all equipment and materials specified under this Section and as required to integrate work required under all other Sections of this DIVISION to assure complete furnishing and installing of all equipment, services, materials necessary to provide complete mechanical systems of Plumbing, Fire Protection, Heating, Ventilating and Air Conditioning. Extensions of existing systems only.
- C. Equipment, materials, work, labor, and services required to provide complete installation which are not covered in this Section will be found listed under other Sections of this DIVISION. All other Sections of this DIVISION are applicable to this Section insofar as they apply.

1.02 PIPING SYSTEMS - GENERAL

- A. Install valves in each riser, each main branch, at equipment and at other points specified, indicated or required for proper and safe operation of plant.
- B. Provide hose end drain valves at all low points, trapped sections and on equipment side of all branch valves to permit draining of all parts of liquid piping systems.

~~C. Provide manual air vents at high points of closed circulating piping system and elsewhere as specified or required to assure elimination of air from system; install in such a way that water spillage may be caught. Pitch piping in closed circulating system upward in direction of flow.~~

- D. In water piping systems, connect branches flowing upward from a main or downward toward a main into top of main. Connect all other

15050-1

C09 FR37 025 725

- 2) Waste and vent piping 2-1/2" and smaller above ground and condensate waste piping from air conditioning unit drain pans: Schedule 40 galvanized steel pipe with galvanized cast iron recessed drainage fittings on waste piping and standard galvanized cast iron fittings on vent piping. See optional material for waste and vent piping noted above.
- 3) Sanitary and storm sewers below ground within building, where indicated on the drawings, and such piping outside building, where indicated to be furnished; installed under Mechanical DIVISION: first quality salt-glazed vitrified tile conforming to ASTM Specification No. C-200-55T where located below ground within building, and under paved areas or more than ten feet (10'-0") below grade outside building; conforming to ASTM Specification No. C-413-54T for all other exterior locations.

~~B. Underground domestic cold water service piping into building: centrifugally cast, ductile iron pipe, Class 4 wall thickness, cement lined to 1/8" thickness, complying with ANSI Specifications A21.50 and A21.51, respectively; fittings: gray iron, Class 250, 1/8" thick cement lining, mechanical joint with cast iron glands, non-corrosive bolts and nuts, plain rubber gaskets, short body design, all complying with ANSI Specifications A21.11 and A21.10.~~

~~C. Underground fire protection piping: same as underground domestic water service piping except unlined, consistent with all requirements noted above for domestic cold water service, as applicable.~~

D. Domestic cold water piping 2-1/2" and larger within building: Schedule 40 galvanized steel pipe with grooved ends and compatible Victaulic or Gruvagrip fittings and couplings as recommended by the manufacturer with suitable gaskets for the specific pipe service requirements or standard malleable or cast iron, galvanized, screwed fittings or screw-on flanges; or Type L hard drawn copper piping with wrought copper recessed fittings.

E. All other domestic cold water piping and all piping for domestic hot water supply, within building: Type L hard drawn copper tubing with wrought copper recessed fittings.

F. Fire protection piping within building:

- 1) Schedule 40 black steel pipe. Fittings: 150 pound malleable iron or 125 pound cast iron screwed fittings; or standard

15050-8

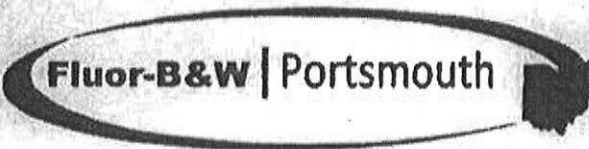
FBP-CSPEC-15051F124 Rev 0

FLUOR-B&W | Portsmouth LLC

PIKETON, OHIO

SECTION 15051 F124

SANITARY (POTABLE) WATER & PROCESS WATER (COPPER TUBING)

0	5/10/12	BASELINE SPECIFICATION	<i>[Signature]</i>	5/10/12	<i>[Signature]</i>	5/10/12
REV	DATE	REASON FOR REVISION	ENGINEER	DATE	DESIGN ENGR MGR	DATE
						

APPROVED FOR RELEASE
H. H. Thomas
Date: 5/10/12

PART 1 - SCOPE

1.01 SERVICE RATING

Maximum Pressure: 150 psig
Maximum Temperature: 130°F

PART 2 - PRODUCTS

2.01 MATERIALS AND EQUIPMENT

- A. The material list of this specification is comprehensive in nature. It is not intended that all materials listed will necessarily be required but that those required for the work shall be selected from this listing unless otherwise shown on the drawings. Design Requirements

1. Codes

Installation shall be in accordance with ANSI A40.8, National Plumbing Code, Uniform Plumbing Code, and applicable ASME Plumbing Standards.

2. Materials

<u>Item</u>	<u>Size (incl.) (in)</u>	<u>Specification</u>
Tubing	To 2 Nominal	Copper, seamless water tube, hard drawn, ASTM B-88, Type L
Fittings	To 2 Nominal	Copper, seamless, wrought type, solder joint, per ANSI B16.22.
Dope		Rector seal No.5, Rectorseal Corp.; Key Tite, W.K.M. Valve Div., ACF Industries Tyte Unyte, J. C. Whitlam Mfg. Co.; TFE Tape, Sepco Corp.

3. Valves

Provide valves of required size for service specified herein. Select values from manufacture and types listed under corresponding valve number in FBP-CSPEC-15120.

<u>Service</u>	<u>Size (incl.) (in.)</u>	<u>Valve Number</u>	<u>Materials</u> <u>Body</u>	<u>Trim</u>	<u>Type of Ends</u>
<u>Shutoff</u>					
Gate	¼ to 2	V-1	Bronze	Bronze	Screwed
Gate	½ to 2	V-6134	Bronze	Bronze	Screwed

FBP-CSPEC-15051F124 Rev 0

<u>Service</u>	<u>Size (incl.) (in.)</u>	<u>Valve Number</u>	<u>Materials</u>		<u>Type of Ends</u>
			<u>Body</u>	<u>Trim</u>	
Butterfly	½ to 2	V-6472	Bronze	Viton SS	Screwed
<u>Control</u>					
Globe	¼ to 2	V-6036	Brass	No. 10 Disc	Screwed
Globe	3/8 to 2	V-6135	Bronze	No. 10 Disc	Soldered
<u>Check</u>					
Swing	¼ to 2	V-1163	Bronze	Bronze	Soldered
Swing	3/8 to 2	V-201	Brass	Brass	Screwed

4. Pressure Relief and Reducing Valves

Pressure relief and reducing valves shall be of the type, size, and setting specified on the drawings. When required, lever operators for relief valves shall be specified on the drawings. Relief valves shall be turned over to the Buyer for test verification of pressure setting prior to installation.

5. Backflow Preventers

- a. Install backflow preventers or air gap separators between potable water and process water connections as shown on the drawings. Reduced pressure backflow preventers shall be Buyer approved and shall be of the type, size, and capacity specified.
- b. After installation, all backflow preventers shall be tested and approved by the Buyer prior to activation of the system.

6. Safety Valves

Safety valves shall be of the type, size, and setting specified on the drawings. All safety valves shall be National Board stamped and shall have lever operators (packed for indoor service when specified). Safety valves shall be turned over to the Buyer for set-pressure testing prior to installation.

FBP-CSPEC-15051F124 Rev 0

PART 3 - EXECUTION

3.01 TUBING FABRICATION AND INSTALLATION

- A. All soldered joints shall be made using a solid wire solder and a noncorrosive flux. The solder mixture shall contain no lead. Valves to be soldered shall be disassembled prior to soldering and all packing should be removed. After soldering, the valves shall be allowed to cool before reassembling. Remove all excess flux and solder from the exterior surface of the joint. Other details of fabrication and installation shall be as specified in FBP-CSPEC-15056.

Note: It is mandatory that the solder mixture specified be used.

++ END OF SECTION ++


VERIFICATION FORM FOR COMMUNITY PUBLIC WATER SYSTEMS CLAIMING NO LEAD SERVICE LINES

The owner or operator of all community public water systems must identify and map areas of their distribution system that are known or are likely to contain lead service lines. Systems must submit a copy of the applicable map to the Ohio Department of Health and the Ohio Department of Job and Family Services. Systems must also submit a report to the director containing at least both of the following: (1) The applicable map with narrative, and (2) A list of sampling locations used to collect samples as required by Ohio Revised Code (ORC) Section 6109.121 and any rules adopted thereunder, including contact information for the owner and occupant of each sampling site.

Should a water system determine no lead service lines exist in their distribution system, they must provide information stating they reviewed, at the minimum, historical permit records and local ordinances, distribution maintenance records and information pertaining to installation dates or materials for all services lines. This information must be verified below.

I HEREBY CERTIFY THAT THE FOLLOWING METHOD(S) WERE USED TO DETERMINE NO LEAD SERVICE LINES EXIST IN THIS WATER SYSTEM'S DISTRIBUTION SYSTEM, AS REQUIRED BY ORC 6109.121(F):

LEAD SERVICE LINE VERIFICATION
<p>This PWS states they have no lead service lines and has reviewed the following information (select one or more of the following):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Historical permit records and/or local ordinances <input checked="" type="checkbox"/> Distribution maintenance records (i.e. meter replacement, waterline break repairs) <input checked="" type="checkbox"/> Information pertaining to installation dates for all service lines (i.e. after 1986 when lead services lines were banned) <input checked="" type="checkbox"/> Service line material of all service lines is known (i.e. all service lines are known to be PVC)


March 1, 2017

 Signature of Responsible Person Date
 Wendell Jenkins, Utilities Engineer, Operator Of Record

 Printed Name and Title of Responsible Person
 WS3-1013543-80

PWS NAME: FLUOR B&W Portsmouth
PWS ID: OH 6632414
COUNTY: Pike

For Ohio EPA use only:

Date Verification Rec'd: _____