

**DIVISION OF WATER
APPROVED MATERIALS LIST (4/22/2024 VERSION)
FOR USE ON NEW CONSTRUCTION OF POTABLE WATER FACILITIES**

This form is part of the Approved Materials List that follows, and is intended for use by developers or contractors constructing potable water facilities within the City of Columbus and surrounding contracted Water Service Areas. An authorized representative of the developer or contractor shall check the box(es) on each item for materials to be used in conjunction with the project, shall fill out this form in its entirety, and shall sign the certification statement below. Please contact the Division of Water if part numbers or models indicated within the Approved Materials List are no longer available. Division of Water personnel will review this form and the Approved Materials List and will separately attach review comments.

Project Name _____

CONTRACTOR INFORMATION

SUPPLIER INFORMATION

Name of Contractor (Company)

Name of Supplier (Company)

Contact Person

Contact Person

Mailing Address

Mailing Address

City, State, Zip

City, State, Zip

Telephone

Telephone

Fax

Fax

E-Mail Address

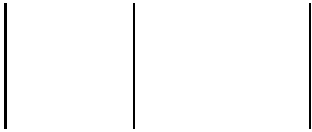
E-Mail Address

I hereby certify that the specific products indicated within the attached Approved Materials List represent a true list of materials to be used within the project indicated above, and I acknowledge understanding of the requirements that follow. Any and all specific requirements detailed within the current version of the Columbus Construction and Material Specifications (CCMS) shall apply to all materials proposed for use on this project. When the notation "Full Submittal Required" or similar language appears within the Approved Materials List, or when required materials do not appear within this Approved Materials List, complete shop drawing submittals are required in accordance with the procedures detailed in the CCMS. All materials supplied to the job site shall conform in all ways to the requirements of the CCMS.

Signed By Contractor Representative

Printed Name of Contractor Representative Date

Spec Section	Item	Description	Manufacturer	Size	Product No.	Selection	Comments
801	Pipe, Copper	For water mains 2-inch and smaller. All tubing shall be type K soft temper conforming to ASTM B 88 and in accordance with City of Columbus Construction and Materials Specifications. Material dimensions shall be copper tubing size (CTS).					Refer to approved copper tubing materials listed under Item 805.
801	Pipe, Ductile Iron	For water mains 3-inch and larger, manufactured per AWWA C151, and in accordance with City of Columbus Construction and Materials Specifications.	American Ductile Iron Pipe			<input type="checkbox"/>	Fastite Push-on, Mech. Joint & Flex-Ring restrained joint
			McWane Ductile			<input type="checkbox"/>	Tyton Push-on, Mech. Joint & TR Flex restrained joint
			U.S. Pipe			<input type="checkbox"/>	Tyton Push-on, Mech. Joint & TR Flex or HDSS Restrained Joint Pipe
801	Pipe, Concrete	For water mains 20-inch and larger, manufactured per AWWA C301, in accordance with City of Columbus Construction and Materials Specifications. Full Submittal Required.	Thompson Pipe Group			<input type="checkbox"/>	Snap-Ring type joints to be used for all restrained joints
801	Pipe, Steel	For water mains 20-inch and larger, manufactured per AWWA M11, in accordance with City of Columbus Construction and Materials Specifications. Full Submittal Required.	American Spiral-Weld Steel Pipe			<input type="checkbox"/>	
			Northwest Pipe Co.			<input type="checkbox"/>	
			Thompson Pipe Group			<input type="checkbox"/>	
801	Pipe, PVC	For water mains 6-inch & 8-inch mains only, manufactured per AWWA C900, DR 14, in accordance with City of Columbus Construction and Materials Specifications. Refer to CCMS Item 801 for restrictions on the use of PVC pipe.	Diamond Plastics Corp.			<input type="checkbox"/>	
			JM Eagle			<input type="checkbox"/>	
			National Pipe & Plastics			<input type="checkbox"/>	
			Westlake			<input type="checkbox"/>	
			IPEX			<input type="checkbox"/>	
801	Ductile Iron Fitting (Tee)	Mechanical Joint (M.J) or Push-on Tees, for Water mains 3-inch and Larger, Manufactured per AWWA C110 / C111 / C153 and in accordance with City of Columbus Construction and Materials Specifications.	American Ductile Iron (ACIPCO)			<input type="checkbox"/>	Flex-Ring Fittings for restrained joint pipe
			McWane Ductile			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			Sigma			<input type="checkbox"/>	
			Star Pipe Products			<input type="checkbox"/>	
			Tyler Union			<input type="checkbox"/>	
			United-NAPAC, Inc.			<input type="checkbox"/>	
			NACIP			<input type="checkbox"/>	
			SIP Industries			<input type="checkbox"/>	
			US Pipe			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			US Pipe			<input type="checkbox"/>	Metalfit
801	Ductile Iron Fitting (Swivel /Anchoring Tee)	Mechanical joint or push-on swivel & anchoring tees, for water mains 3-inch and larger, manufactured per AWWA C110 / C111 / C153 and in accordance with City of Columbus Construction and Materials Specifications.	American Ductile Iron (ACIPCO)			<input type="checkbox"/>	Flex-Ring Fittings for restrained joint pipe
			McWane Ductile			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			Sigma			<input type="checkbox"/>	
			Star Pipe Products			<input type="checkbox"/>	
			Tyler Union			<input type="checkbox"/>	
			United-NAPAC, Inc.			<input type="checkbox"/>	
			NACIP			<input type="checkbox"/>	
			SIP Industries			<input type="checkbox"/>	
801	Ductile Iron Fitting (Cross)	Mechanical joint or push-on crosses, for water mains 3-inch and larger, manufactured per AWWA C110 / C111 / C153 and in accordance with City of Columbus Construction and Materials Specifications.	American Ductile Iron (ACIPCO)			<input type="checkbox"/>	Flex-Ring Fittings for restrained joint pipe
			McWane Ductile			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			Sigma			<input type="checkbox"/>	
			Star Pipe Products			<input type="checkbox"/>	
			Tyler Union			<input type="checkbox"/>	
			United-NAPAC, Inc.			<input type="checkbox"/>	
			NACIP			<input type="checkbox"/>	
			SIP Industries			<input type="checkbox"/>	
			US Pipe			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			US Pipe			<input type="checkbox"/>	Metalfit
801	Ductile Iron Fitting (11 1/4 Degree Bend)	Mechanical joint or push-on 11 1/4 degree bends, for water mains 3-inch and larger, manufactured per AWWA C110 / C111 / C153 and in accordance with City of Columbus Construction and Materials Specifications.	American Ductile Iron (ACIPCO)			<input type="checkbox"/>	Flex-Ring Fittings for restrained joint pipe
			McWane Ductile			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			Sigma			<input type="checkbox"/>	
			Star Pipe Products			<input type="checkbox"/>	
			Tyler Union			<input type="checkbox"/>	
			United-NAPAC, Inc.			<input type="checkbox"/>	
			NACIP			<input type="checkbox"/>	
			SIP Industries			<input type="checkbox"/>	
			US Pipe			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			US Pipe			<input type="checkbox"/>	Metalfit
801	Ductile Iron Fitting (22 1/2 Degree Bend)	Mechanical joint or push-on 22 1/2 degree bends, for water mains 3-inch and larger, manufactured per AWWA C110 / C111 / C153 and in accordance with City of Columbus Construction and Materials Specifications.	American Ductile Iron (ACIPCO)			<input type="checkbox"/>	Flex-Ring Fittings for restrained joint pipe
			McWane Ductile			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			Sigma			<input type="checkbox"/>	
			Star Pipe Products			<input type="checkbox"/>	



Tyler Union			<input type="checkbox"/>	
United-NAPAC, Inc.			<input type="checkbox"/>	
NACIP			<input type="checkbox"/>	
SIP Industries			<input type="checkbox"/>	
US Pipe			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
US Pipe			<input type="checkbox"/>	Metalfit

Spec Section	Item	Description	Manufacturer	Size	Product No.	Selection	Comments
801	Ductile Iron Fitting (45 Degree Bend)	Mechanical joint or push-on 45 degree bends, for water mains 3-inch and larger, manufactured per AWWA C110 / C111 / C153 and in accordance with City of Columbus Construction and Materials Specifications.	American Ductile Iron (ACIPCO)			<input type="checkbox"/>	Flex-Ring Fittings for restrained joint pipe
			McWane Ductile			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			Sigma			<input type="checkbox"/>	
			Star Pipe Products			<input type="checkbox"/>	
			Tyler Union			<input type="checkbox"/>	
			United-NAPAC, Inc.			<input type="checkbox"/>	
			NACIP			<input type="checkbox"/>	
			SIP Industries			<input type="checkbox"/>	
			US Pipe			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			US Pipe			<input type="checkbox"/>	Metalfit
801	Ductile Iron Fitting (90 Degree Bend)	Mechanical joint or push-on 90 degree bends, for water mains 3-inch and larger, manufactured per AWWA C110 / C111 / C153 and in accordance with City of Columbus Construction and Materials Specifications.	American Ductile Iron (ACIPCO)			<input type="checkbox"/>	Flex-Ring Fittings for restrained joint pipe
			McWane Ductile			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			Sigma			<input type="checkbox"/>	
			Star Pipe Products			<input type="checkbox"/>	
			Tyler Union			<input type="checkbox"/>	
			United-NAPAC, Inc.			<input type="checkbox"/>	
			NACIP			<input type="checkbox"/>	
			SIP Industries			<input type="checkbox"/>	
			US Pipe			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			US Pipe			<input type="checkbox"/>	Metalfit
801	Ductile Iron Fitting (Offset)	Mechanical joint or push-on offset fitting. <u>Permitted for use only on 6-inch diameter fire hydrant leads.</u> Manufactured per AWWA C110 / C111 / C153 and in accordance with City of Columbus Construction and Materials Specifications.	McWane Ductile			<input type="checkbox"/>	
			Sigma			<input type="checkbox"/>	
			Star Pipe Products			<input type="checkbox"/>	
			Tyler Union			<input type="checkbox"/>	
			United-NAPAC, Inc.			<input type="checkbox"/>	
			NACIP			<input type="checkbox"/>	
			SIP Industries			<input type="checkbox"/>	
			US Pipe			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			US Pipe			<input type="checkbox"/>	Metalfit
			801	Ductile Iron Fitting (Solid Sleeve - Long)	MJ solid sleeve full body fitting, for water mains 3-inch and larger, in accordance with City of Columbus Construction and Materials Specifications and DOPW Standard Drawing L-7401.	American Ductile Iron (ACIPCO)	
McWane Ductile						<input type="checkbox"/>	
Sigma						<input type="checkbox"/>	
Star Pipe Products						<input type="checkbox"/>	
Tyler Union						<input type="checkbox"/>	
United-NAPAC, Inc.						<input type="checkbox"/>	
NACIP						<input type="checkbox"/>	
SIP Industries						<input type="checkbox"/>	
US Pipe						<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
US Pipe						<input type="checkbox"/>	Metalfit
801	Ductile Iron Fitting (Reducer)	Mechanical joint or push-on concentric reducers, for water mains 3-inch and larger, manufactured per AWWA C110 / C111 / C153 and in accordance with City of Columbus Construction and Materials Specifications.	American Ductile Iron (ACIPCO)			<input type="checkbox"/>	Flex-Ring Fittings for restrained joint pipe
			McWane Ductile			<input type="checkbox"/>	
			Sigma			<input type="checkbox"/>	
			Star Pipe Products			<input type="checkbox"/>	
			Tyler Union			<input type="checkbox"/>	
			United-NAPAC, Inc.			<input type="checkbox"/>	
			NACIP			<input type="checkbox"/>	
			SIP Industries			<input type="checkbox"/>	
			US Pipe			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			US Pipe			<input type="checkbox"/>	Metalfit
801	Ductile Iron Fitting (Plug)	Mechanical joint or push-on plugs, for water mains 3-inch and larger, manufactured per AWWA C110 / C111 / C153 and in accordance with City of Columbus Construction and Materials Specifications.	American Ductile Iron (ACIPCO)			<input type="checkbox"/>	Flex-Ring Fittings for restrained joint pipe
			McWane Ductile			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			Sigma			<input type="checkbox"/>	
			Star Pipe Products			<input type="checkbox"/>	
			Tyler Union			<input type="checkbox"/>	
			United-NAPAC, Inc.			<input type="checkbox"/>	
			NACIP			<input type="checkbox"/>	
			SIP Industries			<input type="checkbox"/>	
			US Pipe			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe
			US Pipe			<input type="checkbox"/>	Metalfit

Spec Section	Item	Description	Manufacturer	Size	Product No.	Selection	Comments			
801	Ductile Iron Fitting (Cap)	Mechanical joint or push-on caps, for water mains 3-inch and larger, manufactured per AWWA C110 / C111 / C153 and in accordance with City of Columbus Construction and Materials Specifications.	American Ductile Iron (ACIPCO)			<input type="checkbox"/>	Flex-Ring Fittings for restrained joint pipe			
			McWane Ductile			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe			
			Sigma			<input type="checkbox"/>				
			Star Pipe Products			<input type="checkbox"/>				
			Tyler Union			<input type="checkbox"/>				
			United-NAPAC, Inc.			<input type="checkbox"/>				
			NACIP			<input type="checkbox"/>				
			SIP Industries			<input type="checkbox"/>				
			US Pipe			<input type="checkbox"/>	TR Flex Fittings for restrained joint pipe			
			US Pipe			<input type="checkbox"/>	Metalfit			
801	Mechanical Joint Adaptor (Compact)	Compact MJ X MJ adaptor that allows MJ fitting bells (ie. tees & valves) to be restrained to one another with bolts, and in accordance with City of Columbus Construction and Materials Specifications.	Infact Corporation		Foster	<input type="checkbox"/>				
			Star Pipe Products		Series 100	<input type="checkbox"/>				
			US Pipe			<input type="checkbox"/>	Metalfit			
801	Mechanical Joint Gland	Standard or compact mechanical joint gland, for water mains 3-inch and larger, manufactured per AWWA C110 / C111 / C153 and in accordance with City of Columbus Construction and Materials Specifications.	McWane Ductile			<input type="checkbox"/>				
			Ferguson/Pro Select			<input type="checkbox"/>				
			Sigma			<input type="checkbox"/>				
			Star Pipe Products			<input type="checkbox"/>				
			Tyler Union			<input type="checkbox"/>				
			United-NAPAC, Inc.			<input type="checkbox"/>				
			NACIP			<input type="checkbox"/>				
			SIP Industries			<input type="checkbox"/>				
801	Gasket	Gaskets used at joints, for water mains 3-inch and larger, manufactured per AWWA C110 / C111 / C153 and in accordance with City of Columbus Construction and Materials Specifications. No asbestos content.	McWane Ductile			<input type="checkbox"/>				
			Ferguson/Pro Select			<input type="checkbox"/>				
			Sigma			<input type="checkbox"/>				
			Star Pipe Products			<input type="checkbox"/>				
			Tyler Union			<input type="checkbox"/>				
			SIP Industries			<input type="checkbox"/>				
			EGW Utilities Inc.		White Rhino	<input type="checkbox"/>				
			801	Joint Restraining Glands (Temporary)	Temporary joint restraint, for water mains 3-inch and larger, manufactured per AWWA C110 / C111 / C153 and C301, and in accordance with City of Columbus Construction and Materials Specifications. Permanent joint restraint for fire hydrant leads.	EBBA Iron, Inc.		Megalug Series 1100	<input type="checkbox"/>	
Ford Meter Co.		Uni-Flange Series 1400				<input type="checkbox"/>				
Romac Ind., Inc.		RomaGrip				<input type="checkbox"/>				
Sigma		One-Lok Series SLDE				<input type="checkbox"/>				
Smith-Blair		Cam-Lock Series 111				<input type="checkbox"/>				
Star Pipe Products		Stargrip Series 3000				<input type="checkbox"/>				
Tyler Union		TUFgrip Series 1000				<input type="checkbox"/>				
SIP Industries		EZ Grip				<input type="checkbox"/>				
801	Factory-Coated Carbon Steel nuts & bolts	Nuts and bolts for installation of, fittings, mechanical joints, pipe restraint products, etc.				Sigma		TTB	<input type="checkbox"/>	Blue Fluorocarbon Tee Head Bolts and Nuts
						Tyler Union		Cor-Blue T-bolts	<input type="checkbox"/>	Blue Fluorocarbon Tee Head Bolts and Nuts
			Star Pipe Products		Star Blue	<input type="checkbox"/>	Blue Fluoropolymer Tee Head Bolts and Nuts			
			Ferguson/Pro Select		Core Blue	<input type="checkbox"/>	Blue Fluoropolymer Tee Head Bolts and Nuts			
			Birmingham Fastener, Inc.			<input type="checkbox"/>	Blue Fluoropolymer Tee Head Bolts and Nuts			
			SIP Industries			<input type="checkbox"/>	Blue Fluoropolymer Tee Head Bolts and Nuts			
			EGW Utilities Inc.		White Rhino	<input type="checkbox"/>	Blue Fluorocarbon Tee Head Bolts and Nuts			
			801	Coupling	For Connection to cast iron water mains 2-inch and larger, in accordance with City of Columbus Construction and Materials Specifications.	Dresser		Style 38	<input type="checkbox"/>	18" & Larger Water Mains.
Romac Ind., Inc.		TC400				<input type="checkbox"/>	12" & Larger Water Mains.			
Ford Meter Co.		Ultra Flex				<input type="checkbox"/>	Extended Range (4"-12")			
Power Seal		Power Max				<input type="checkbox"/>	Extended Range (2"-12")			
Romac Ind., Inc.		Style XR 501				<input type="checkbox"/>	4" to 12" Water Mains			
Romac Ind., Inc.		*MACRO*				<input type="checkbox"/>	4" to 12" Water Mains			
Smith Blair		461 Series				<input type="checkbox"/>	2" to 12" Water Mains.			
Smith Blair		441 Series				<input type="checkbox"/>	2" to 16" Water Mains.			
Total Piping Solutions, Inc.		TX3				<input type="checkbox"/>	Extended Range (4"-12")			
Total Piping Solutions, Inc.		Hymax 2000 Series				<input type="checkbox"/>	2" to 12" Water Mains.			
801	Polyethylene Encasement Tubing	8-mil. thick polyethylene encasement sleeve for ductile iron pipe (DIP) per AWWA C105.				KMA Enterprises		"PET" Series	<input type="checkbox"/>	
						Balcan Plastics Limited/First Film Extruding or Crayex Corporation		V-Bio	<input type="checkbox"/>	
			Sigma			<input type="checkbox"/>				
			T. Christy Enterprises, Inc.			<input type="checkbox"/>				
			AA Thread Seal Tape, Inc.			<input type="checkbox"/>				

Spec Section	Item	Description	Manufacturer	Size	Product No.	Selection	Comments
801	Polyethylene Encasement Tubing Tape	1 1/2" wide, 6-mil. thick adhesive PVC outer wrap tape for underground applications.	KMA Enterprises			<input type="checkbox"/>	2" Wide Tape
			Sigma			<input type="checkbox"/>	
			T. Christy Enterprises, Inc.			<input type="checkbox"/>	
			AA Thread Seal Tape, Inc.			<input type="checkbox"/>	2" Wide Tape
801	Underground Corrosion Protection-Metal Surfaces	Corrosive protection for underground metal surfaces (bolts, restraint rodding, etc.) For aerosol undercoating products, follow manufacturer temperature restrictions for product application. For Black Gilsonite Asphalt Paint, keep product warm when working in conditions below 32°F. Do not thin product with mineral spirits or other agents.	Denso		"LT" Tape	<input type="checkbox"/>	Low Temperature Petrolatum Tape
			Trenton		#1 Wax Tape	<input type="checkbox"/>	
			3M		08881	<input type="checkbox"/>	Underseal Rubberized Undercoating Black
			Permatex		80072 (117EA)	<input type="checkbox"/>	Undercoating - Aerosol coating
			Carquest		CCM 26903	<input type="checkbox"/>	Undercoating - Aerosol coating
			J.C. Whitlam Mfg. Co.		Black Dragon	<input type="checkbox"/>	Black Gilsonite Asphalt Paint
			Hercules Chemical Company		Black Magic	<input type="checkbox"/>	Black Gilsonite Asphalt Paint
			Larsen Products Corp.		"Weld-Crete"	<input type="checkbox"/>	
801	Concrete Bonding Agent	For cement mortar lining field repair on Steel Pipe, in accordance with City of Columbus Construction and Materials Specifications.					
801	Detectable Underground Tape	6" wide, Warning/Identification (Detectable) Marking Tape for buried facilities, blue in color.	Harris Industries, Inc.			<input type="checkbox"/>	
			Pro-Line			<input type="checkbox"/>	
			ProPak			<input type="checkbox"/>	
			Sigma			<input type="checkbox"/>	
801	Poly Pig (Medium Density)	For use in Cleaning of New Water Mains 12-inch and larger, in accordance with City of Columbus Construction and Materials Specifications.	Pipeline Pigging Products		Model B4	<input type="checkbox"/>	
			Pipeline Pigging Products		Model RX4	<input type="checkbox"/>	
			Girard		Model RCC	<input type="checkbox"/>	
			Knapp		Model 1-C	<input type="checkbox"/>	
801	Chlorination Tap (B.O./Sampling Outlet)	For use in chlorinating newly installed water mains in accordance with AWWAC-651 along with City of Columbus Construction and Materials Specifications. Note that all taps are to be removed once chlorination is complete and shall be plugged with an approved brass plug.					Refer to approved corporation stop valves listed under Item 805.
801	Brass Plug	For use in plugging a water main once a corporation stop has been removed. Plug must have AWWA CC style threads.	A.Y. McDonald		73206	<input type="checkbox"/>	3/4" - 2"
			Cambridge Brass		Model 98NL	<input type="checkbox"/>	3/4" - 2"
			Ford Meter Co.		CSP-NL	<input type="checkbox"/>	3/4" - 1"
			Mueller Co.		H-10033N	<input type="checkbox"/>	3/4" - 2"
801	Tracer Wire	12 GA AWG, solid copper HDPE jacket, or high strength HDPE jacket copper-clad steel reinforced tracer wire, for use with PVC pipe.	Copperhead Industires		1230B-HS	<input type="checkbox"/>	
			Pro-Line Safety Products		Pro-Trace HF-CCS PE30	<input type="checkbox"/>	
801	Tracer Wire Grounding Rod	1.5-lb, drive-in, magnesium rod with a minimum 20-feet, 12 AWG red HDPE insulated copper-clad steel wire connected to the rod.	Copperhead Industires		ANO-12	<input type="checkbox"/>	
			Pro-Line Safety Products		Pro-Trace Ground Rod	<input type="checkbox"/>	
801	Tracer Wire Termination Box	Grade level / in-ground tracer wire access box with dual terminal lid.	Copperhead Industires		SnakePit LD14B2T-ADJ	<input type="checkbox"/>	
			KrisTech		Test Station, 2-terminal cove	<input type="checkbox"/>	

Spec Section	Item	Description	Manufacturer	Size	Product No.	Selection	Comments
802	Valve, Butterfly	For water valves 20-inch and larger, manufactured per AWWA C504 and in accordance with City of Columbus Construction and Materials Specifications.	Henry Pratt Co.		Groundhog Series	<input type="checkbox"/>	20" & Larger
			DeZurik		BAW AWWA	<input type="checkbox"/>	20" & Larger
			Mueller		Lineseal	<input type="checkbox"/>	20" & Larger
802	Valve, Curb Stop	For valves on water mains 2-inch and smaller					Refer to approved curb stop valves listed under Item 805.
802	Valve, Resilient Seated Gate	For water valves 3-inch to 16-inch, manufactured per AWWA C-500, C509 and C-515 and in accordance with City of Columbus Construction and Materials Specifications.	American Flow Control		Series 2500	<input type="checkbox"/>	
			American Flow Control		Series 2500 - Restrained	<input type="checkbox"/>	Alpha restrained joint ends, For 4" - 12" valves
			American AVK		Series 45	<input type="checkbox"/>	
			Clow Corporation		Model 2639/2640	<input type="checkbox"/>	For 3" - 12" Valves (M.J.) Type F-6100, Type F-6114 for Tapping
			Clow Corporation		Model 2638	<input type="checkbox"/>	For 3" - 16" Valves (M.J.) Type F-6100, Type F-6114 for Tapping
			East Jordan Iron Works		"FlowMaster"	<input type="checkbox"/>	For 4" - 16" Valves.
			Kennedy Valve Company		"KS-FW"	<input type="checkbox"/>	Sizes 3" - 16"
			Kennedy Valve Company		"KS-RW"	<input type="checkbox"/>	Sizes 3" - 12"
			Mueller Co.		Series 2360	<input type="checkbox"/>	For 3" - 16" Valves.
Mueller Co.		Series T2360	<input type="checkbox"/>	For 3" - 16" Valves (Tapping)			
802	Valve Box, ≤ 2" Valve	Screw type valve box for use on water valves 2-inch and smaller, outside traveled areas and in accordance with City of Columbus Construction and Materials Specifications Item 805.					Refer to approved curb boxes listed under Item 805.
802	Valve Box, Standard (Three Piece)	Screw type valve box for use on water valves 3-inch to 16-inch, not in a traveled area, and in accordance with City of Columbus Construction and Materials Specifications.	General Foundries Inc.		340C0	<input type="checkbox"/>	
			Bingham & Taylor		15BC6W	<input type="checkbox"/>	
			Sigma		VB630	<input type="checkbox"/>	
			Star Pipe Products		VB-0005	<input type="checkbox"/>	
			Tyler Union		6860	<input type="checkbox"/>	
			SIP Industries		6000 - 6020	<input type="checkbox"/>	
802	Valve Box, Heavy Duty	For use on any water valves 16-inch and larger, any 3-inch & larger valve within a traveled area, or any tapping valve, in accordance with City of Columbus Construction and Materials Specifications DOPW standard drawing L-6316A.	East Jordan Iron Works		449	<input type="checkbox"/>	Valve Box Assembly
			General Foundries Inc.		COLVB	<input type="checkbox"/>	
			Sigma		VB635	<input type="checkbox"/>	
			Star Pipe Products		VB-0039	<input type="checkbox"/>	
			SIP Industries		15VBXHDCL	<input type="checkbox"/>	
802	Valve Box, Adjusting Ring	For use on <u>existing</u> heavy duty valve boxes, in accordance with City of Columbus Construction and Materials Specifications DOPW Standard Drawing L-6316B.	American Highway Products, Ltd.		Columbus, Ohio	<input type="checkbox"/>	Pivoted Turnbuckle Expanding Linkage
Spec Section	Item	Description	Manufacturer	Size	Product No.	Selection	Comments
803	Tapping Sleeve for CI, DI, and PVC Pipe (Reduced Size Taps)	Full body iron or fabricated steel tapping sleeve for 3" and larger wet taps on CI or DI pipe in accordance with City of Columbus Construction and Materials Specifications.	American Flow Control		2800-C Series	<input type="checkbox"/>	4"x4" through 16"x12" (Ductile Iron, Cast Iron, or PVC)
			Cascade		CST-EX	<input type="checkbox"/>	(Ductile Iron or PVC)
			Cascade		CFT-ESS	<input type="checkbox"/>	(Ductile Iron or PVC)
			Ford Meter Co.		FTSC	<input type="checkbox"/>	(Ductile Iron or PVC)
			JCM Industries Inc.		JCM 412	<input type="checkbox"/>	6"x3" through 36"x12" (Ductile Iron or PVC)
			JCM Industries Inc.		JCM 432	<input type="checkbox"/>	4"x2" through 24"x8" (Ductile Iron, Cast Iron, or PVC)
			JCM Industries Inc.		JCM 452	<input type="checkbox"/>	(Ductile Iron or PVC)
			Mueller Co.		H-615	<input type="checkbox"/>	4"x4" through 24"x24" (Ductile Iron, Cast Iron, or PVC)
			Mueller Co.		H-616	<input type="checkbox"/>	4"x10" through 24"x24" (Cast Iron Only)
			Powerseal		3490	<input type="checkbox"/>	(Ductile Iron, Cast Iron, or PVC)
			Romac Ind., inc.		FTS420	<input type="checkbox"/>	(Ductile Iron or PVC)
			Romac Ind., inc.		SSTIII	<input type="checkbox"/>	(Ductile Iron, Cast Iron, or PVC)
			Smith-Blair		622	<input type="checkbox"/>	4"x4" through 24"x12" (Ductile Iron or PVC)
			Smith-Blair		665	<input type="checkbox"/>	(Ductile Iron, Cast Iron, or PVC)
			Total Piping Solutions, Inc.		Triple Tap	<input type="checkbox"/>	4" through 16" (Ductile Iron, Cast Iron, or PVC)
			Tyler Union		25-U	<input type="checkbox"/>	6"x4" through 12"x12" (Ductile Iron, Cast Iron, or PVC)
			803	Tapping Sleeve for CI and DI Pipe (Size-on-Size Taps)	Iron tapping sleeve (full body) for 3" and larger wet taps on CI or DI pipe in accordance with City of Columbus Construction and Materials Specifications.	American Flow Control	
Mueller Co.		H-615				<input type="checkbox"/>	4"x4" through 24"x24" (Ductile or Cast Iron)
Mueller Co.		H-616				<input type="checkbox"/>	4"x10" through 24"x24" (Cast Iron Only)
Total Piping Solutions, Inc.		Triple Tap				<input type="checkbox"/>	4"x4" through 16"x16" (Ductile Iron or Cast Iron)
803	Tapping Sleeve for Concrete Cylinder Pipe	Fabricated steel tapping sleeve for 3" and larger wet taps on concrete pipe in accordance with City of Columbus Construction and Materials Specifications.	JCM Industries Inc.		415	<input type="checkbox"/>	Sized to fit actual OD of pipe, OD must
			Smith-Blair		625	<input type="checkbox"/>	be field verified prior to order.

Spec Section	Item	Description	Manufacturer	Size	Product No.	Selection	Comments
805	Corporation Stop	For water taps 2-inch and smaller, in accordance with City of Columbus Construction and Materials Specifications. Dimensions shall be copper tubing size (CTS). Compression connection x AWWA taper thread. Pressure rated at 150 psi or higher. Product must be certified to meet the requirements on NSF/ANSI 61. For water taps 3-inch and larger an approved tapping sleeve and valve shall be used for any hot-tap installation in accordance with Item 802.	A.Y. McDonald		74701BT	<input type="checkbox"/>	3/4" thru 2"
			Cambridge Brass		Series 301NL	<input type="checkbox"/>	3/4" thru 2"
			Ford Meter Co.		"FB1000-QNL" Series	<input type="checkbox"/>	3/4" thru 2"
			Mueller Co.		B-25008N	<input type="checkbox"/>	3/4" thru 2"
			Mueller Co.		H-15013N	<input type="checkbox"/>	For 1 1/2" & 2"
805	Curb Stop (Water Tap Valve)	For water taps 2-inch and smaller, in accordance with City of Columbus Construction and Materials Specifications. Dimensions shall be copper tubing size (CTS) with compression connections and pressure rated at 150 psi or higher. Product must be certified to meet the requirements on NSF/ANSI 61. For water taps 3-inch and larger an approved gate valve shall be used in accordance with Item 802.	A.Y. McDonald		76100T	<input type="checkbox"/>	3/4" thru 2" Water Taps
			Cambridge Brass		Series 202NL	<input type="checkbox"/>	3/4" thru 2" Water Taps
			Ford Meter Co.		"B44-NL" Series	<input type="checkbox"/>	3/4" thru 2" Water Taps
			Mueller Co.		B-25209N	<input type="checkbox"/>	3/4" thru 2" Water Taps
			Mueller Co.		H-15209N	<input type="checkbox"/>	3/4" thru 2" Water Taps
805	Curb Box, Standard	For curb stops 2-inch and smaller, in accordance with City of Columbus Construction and Materials Specifications. For water taps 3-inch and larger an approved valve box shall be used in accordance with Item 802.	General Foundries Inc.		37094E	<input type="checkbox"/>	
			General Foundries Inc.		38094E	<input type="checkbox"/>	
			Bingham & Taylor		I2B94EWOS	<input type="checkbox"/>	"New Style" lid acceptable
			Sigma		VB-794E	<input type="checkbox"/>	
			Star Pipe Products		SB94ES	<input type="checkbox"/>	
			SIP Industries		6300 Item #	<input type="checkbox"/>	94E
			Tyler Union		6500 Series	<input type="checkbox"/>	94-E
805	Copper Tubing	For water taps 2-inch and smaller, all tubing shall be type K soft temper conforming to ASTM B 88 and in accordance with City of Columbus Construction and Materials Specifications. Material dimensions shall be Copper Tubing Size (CTS). For water taps 3-inch and larger an approved ductile iron pipe shall be used.	Mueller Industries, Inc.		Type K Soft Copper	<input type="checkbox"/>	
			Cambridge-Lee Industries, Inc.		Type K Soft Copper	<input type="checkbox"/>	
			Cerro Flow Products, Inc.		Type K Soft Copper	<input type="checkbox"/>	
			Great Lakes Copper, Inc.		Type K Soft Copper	<input type="checkbox"/>	
			Kessler		Type K Soft Copper	<input type="checkbox"/>	
			Wieland Coppoer Products, LLC		Type K Soft Copper	<input type="checkbox"/>	
805	Water Tap Saddle	For water taps 2-inch and smaller, where a hot tap is required, in accordance with City of Columbus Construction and Materials Specifications. Material dimensions shall be copper tubing size (CTS). Provide single strap water tap saddles for 2-inch and smaller water mains. Provide double strap water tap saddles for 3-inch and larger water mains. For water taps 3-inch and larger, where a hot tap is required, an approved tapping sleeve shall be used in accordance with Item 802.	A.Y. McDonald		3801	<input type="checkbox"/>	For use on ex. IPS OD PVC pipe
			A.Y. McDonald		4835A	<input type="checkbox"/>	Single S.S. Strap
			A.Y. McDonald		4855A	<input type="checkbox"/>	Double S.S. Strap
			Cambridge Brass		Series 822	<input type="checkbox"/>	Single S.S. Strap
			Cambridge Brass		Series 812	<input type="checkbox"/>	Double S.S. Strap
			Ford Meter Co.		Style FC101	<input type="checkbox"/>	Single S.S. Strap
			Ford Meter Co.		Style FCD202	<input type="checkbox"/>	Double S.S. Strap
			JCM Industries Inc.		418	<input type="checkbox"/>	3/4" thru 1 1/2" Taps on 20" & Larger W.M.'s
			JCM Industries Inc.		425	<input type="checkbox"/>	3/4" thru 2" Taps on Conc. Steel Cylinder Pipe
			Mueller Co.		DR 1 S or BR 1 S	<input type="checkbox"/>	Single S.S. Strap
			Mueller Co.		DR 2 S or BR 2 S	<input type="checkbox"/>	Double S.S. Strap
			Romac Ind., inc.		101S or 101BS	<input type="checkbox"/>	Single S.S. Strap
			Romac Ind., inc.		202S or 202BS	<input type="checkbox"/>	Double S.S. Strap
			Smith-Blair		315 Series	<input type="checkbox"/>	Single S.S. Strap
			Smith-Blair		317 Series	<input type="checkbox"/>	Double S.S. Strap
805	Water Tap Tubing Couplings	For connecting to water tap tubing 2-inch and smaller, in accordance with City of Columbus Construction and Materials Specifications. Product must be certified to meet the requirements on NSF/ANSI 61.	Cambridge Brass		Series 118NL	<input type="checkbox"/>	Copper to Copper (CTS to CTS)
			Ford Meter Co.		Style C44-xx-Q-NL	<input type="checkbox"/>	Copper to Copper (CTS to CTS)
			Mueller Co.		H-15403N	<input type="checkbox"/>	Copper to Copper (CTS to CTS)
			A.Y. McDonald		74758T and 74758Q	<input type="checkbox"/>	Copper to Copper (CTS to CTS)
			A.Y. McDonald		74756-CTS	<input type="checkbox"/>	Copper to Copper (CTS to CTS)
			A.Y. McDonald		Ranger Fittings	<input type="checkbox"/>	3/4" thru 1"
			Smith-Blair		411 w/ Adapter Gasket	<input type="checkbox"/>	Copper to Galvanized (CTS to IPS)
			Smith-Blair		525 w/ Adapter Gasket	<input type="checkbox"/>	Copper to Galvanized (CTS to IPS)
			Ford Meter Co.		C45-xx-G-NL	<input type="checkbox"/>	Copper to Galvanized (CTS to IPS)
805	Copper Disc	For abandoning water taps, placed at outlet of corporation stop in accordance with City of Columbus Construction and Materials Specifications. Material dimensions shall be copper tubing size (CTS).	Ford Meter Co.		Disc-x Style	<input type="checkbox"/>	3/4" thru 2"
			Mueller Co.		H-15535	<input type="checkbox"/>	3/4" thru 2"
			A.Y. McDonald		6125	<input type="checkbox"/>	3/4" thru 1"

Spec Section	Item	Description	Manufacturer	Size	Product No.	Selection	Comments
806	Casing Pipe	Steel casing pipe for protection/installation of water mains 6-inch and larger, manufactured per ASTM A-139 Grade B, in accordance with City of Columbus Construction and Materials Specifications and DOPW standard drawing L-6324.	American Steel Pipe			<input type="checkbox"/>	
			Lally Pipe & Tube			<input type="checkbox"/>	
			Northwest Pipe Co.			<input type="checkbox"/>	
			Arntzen Corporation			<input type="checkbox"/>	
			Pittsburgh			<input type="checkbox"/>	
806	Casing Spacers	Spacers used with casing pipe installations, in accordance with City of Columbus Construction and Materials Specifications and DOPW standard drawing L-6324.	Advanced Product & Systems	SI		<input type="checkbox"/>	
			Pipeline Seal & Insulator, Inc.	C8G-2 or C12G-2		<input type="checkbox"/>	
			CCI	CSC		<input type="checkbox"/>	
806	Casing Pipe End Seals	Synthetic rubber wrap-around end seals used on casing pipe, in accordance with City of Columbus Construction and Materials Specifications and DOPW standard drawing L-6324.	Advanced Product & Systems	Model AW		<input type="checkbox"/>	
			Pipeline Seal & Insulator, Inc.	Model W		<input type="checkbox"/>	
			CCI Piping System	Model ESW		<input type="checkbox"/>	
Spec Section	Item	Description	Manufacturer	Size	Product No.	Selection	Comments
809	Fire Hydrant	For fire hydrant settings in accordance with City of Columbus Construction and Materials Specifications DOPW standard drawings L-6409, L-6637 and L-7601.	American Flow Control		Mark 73 Series	<input type="checkbox"/>	"No Drain" only
			American Flow Control		Mark 73 -5	<input type="checkbox"/>	"No Drain" only. Alpha Joint Hydrant Base for use on Mark 73 Series H
			Clow Corporation		Eddy F2641	<input type="checkbox"/>	
			Mueller Co.		Centurion	<input type="checkbox"/>	Super 200
Spec Section	Item	Description	Manufacturer	Size	Product No.	Selection	Comments
810	Hydrant Extension Kits	For vertically extending fire hydrant settings in accordance with City of Columbus Construction and Materials Specifications and DOPW standard drawings L-6409, L-6637 and L-7601.	American Flow Control			<input type="checkbox"/>	
			Clow Corporation			<input type="checkbox"/>	
			Mueller Co.			<input type="checkbox"/>	