LIST OF APPROVED MATERIALS

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Meter Installation

All water meters will be supplied by PWD at the contractors' expense. Acceptable manufacturers are listed below. ***No other substitutions will be allowed.***

Description	Approved Manufacturer/Stock Number
(Size of main) x (Service line size) Double Strap Malleable Iron Saddle with Pipe Thread	Smith-Blair Mueller DR2A Or Approved Equal
Meter Boxes	¾" Meters: 12"x20"x12" Armorcast Meter Box No. A6001419X12 w/ Armorcast Cover w/ Hinged Reading Lid No. A6000484R 1" Meter: 12"x20"x12" Armorcast Meter Box No. A6001946PCX12 w/ Armorcast Cover w/ Hinged Reading Lid No A6001866R Or Approved Equal
Corporation Stop, Ball Style MIP x Comp	Jones No E-1935 Mueller B25028 Or Approved Equal
Angle Ball Meter Valve (Angle Stop)	¾" and 1" Ford No. BA43-232W-G-NL Mueller B24258 Or Approved Equal
	1 ½ " and 2" Jones No. E-1975W Mueller B24276 Or Approved Equal
Polywrap-C (8 Mil, use applicable size)	Northtown Or Approved Equal
Neptune Water Meter	Neptune
Meter Coupling (Iron Pipe Thread by Meter Swivel Nut)	¾" and 1" Jones E1908 Mueller B24351N Or Approved Equal
	1 ½ " and 2" Jones E129

Type "K" Softer Copper Tubing	Mueller Cerro Cambridge Lee

Combination Air Valve Assembly

Description	Approved Manufacturer/Stock Number
(Size of main) x (Service line size) Double Strap Malleable Iron Saddle with Pipe Thread	Ford-202B Series Or Approved Equal
Corporation Stop, Ball Style MIP x Comp	Use Applicable Size Jones No J-1935 Mueller B25028 Or Approved Equal
Type "K" Softer Copper Tubing	Mueller Cerro Cambridge Lee
Combination Air Release Vacuum Release Valve	A.R.I. D-040
Curb Valve	Jones-E1949SG Mueller- B25209N Or Approved Equal
Brass Gate Valve	Nibco Or Approved Equal
Air Release Valve Enclosure	Pipeline Products Or Approved Equal

Backflow and Reduced Pressure Devices

Description	Approved Manufacturer/Stock Number
Reduce Pressure Devices up to 2"	Wilkins 975XL2 Or Approved Equal
Reduce Pressure Devices 3" or Larger	Febco LF880V Or Approved Equal
Double Detector Check Backflow Assembly	Febco LF876V or LF886V

Ductile Iron Pipe and Fittings

Description	Approved Manufacturer/Stock Number
Ductile Iron Pipe- *Double Cement lined only* Class 350 for line size up to 12" Class 250 for line size 14" and above	McWane Or Equal
8 mil Polyethylene Wrap & 10 mil Tap	Northtown Christy's
Pipe Restraints	Mechanical Restraints Megalug by Ebba Iron, Inc. or Equal Push on Restraint Ebba Iron, Inc. or Equal
	Restraint Joint Gasket McWane Romac
Ductile Iron Fittings *Flange and Mechanical Joint fittings only*	Sigma Tyler Or Approved Equal
Mechanical Tapping Sleeves	Mueller H-615 or Approved Equal
Flange Insulation Kits (rubber-coated gasket kits)	Calpico, Inc. or Approved Equal

Cement Mortar Lined and Coated Steel Pipe and Fittings

Description	Approved Manufacturer/Stock Number
Cement Mortar Lined and Coated Steel Pipe AWWA C205-12	Southland Pipe Corporation Imperial Pipe or Equal
Cement Mortar-Coating AWWA C205-12	Southland Pipe Corporation Imperial Pipe or Equal
Joints: -Rubber Gasket Joints (SS-P-385) -Lap Welded Field Joints (AWWA C206-11) -Flanged Ends (AWWA C207-13)	Southland Pipe Corporation Imperial Pipe or Equal
Steel Pipe Fittings All fittings for mains 12 inches or smaller shall be Class 150 or Class 250 9 (AWWA C207-13)	Southland Pipe Corporation Imperial Pipe or Equal
Mechanical Tapping Sleeves	Koppl Weld Nozzle or Approved Equal

PVC Pipe and Fittings

Description	Approved Manufacturer/Stock Number
PVC Pipe C-900 AWWA C900-07	North American Pipe Corp Or Equal
Mechanical *Gland shall be Ductile Iron (ASTM A536-65-45-12)	Megalug by EBBA Iron, Inc. or Approved Equal
Push On Restraint	Harness: EBBA Iron, Inc. or Approved Equal
Ductile Iron Pipe Fittings ANSI/AWWA C110/A21.10-12 Class 350	Star Tyler SIP Industries Sigma Co. or Approved Equal
Identification Wire	Duet Industries or Approved Equal
Underground Marking Tape	Terra Tape Extra Stretch 540 or Approved Equal
*Connections to PVC Pipe	Jones Model NO. J-969 or Approved Equal (Bronze service saddle set with double stainless-steel straps)
Mechanical Tapping Sleeves	Mueller H-615 or Approved Equal

Valves and Related Items

Description	Approved Manufacturer/Stock Number
Resilient Wedge Gate Valve- up to 10" Ductile iron, epoxy coated interior and exterior body To meet AWWA C500-09, or AWWA C515 Flange to Flange fitting only 2" operating nut	Mueller Stockham Clow Kennedy A.P. Smith American Or Approved Equal

Butterfly Valve- up to 12" Cast Iron To meet AWWA C504-15, or AWWA C509-09 Rubber-Seated Flange to Flange fitting only 2" operating nut	Mueller Stockham Clow Kennedy A.P. Smith American Or Approved Equal
Check Valves (Seat rings shall be replaceable-either Viton or Teflon)	Prince Cushion Valves Apco Cushioned Check Valves Or Approved Equal
Check Valves (2-1/2" and smaller)	Walworth or Approved Equal
Plug Valves	Rockwell Dezurick or Approved Equal
Tapping Valves	Mueller A.P. Smith Clow Or Approved Equal
Steel Valve Stem Extension	Pipeline Products- SX Zinc rich powder coat finish
Valve can riser	8" Blue Brute C-900 Or approved AWWA C-900 equal

Fire Hydrant Assemblies

Description	Approved Manufacturer/Stock Number
6" Wet Barrel Fire Hydrant *Must have one(1), 4" port and two(2), 2 ½" ports* All hydrants must conform to AWWA C503	Clow-Model 850 or Equal
Fire Hydrant Paint (One (1) coat of red primer and two (2) finish coats	Rust-Oleum Safety Yellow or Approved Equal

4-Inch Blow Off Assembly

Description	Approved Manufacturer/Stock Number
Wharf Head 4" x 2 1/2"	Jones Model No. J-344 H.P. Or Approved Equal

Transition Couplings

Description	Approved Manufacturer/Stock Number
Specially made long flange coupling adapter to fit on AC (913)(914) style with minimum 12”-18” length	Smith Blair Romac Dayton Or Approved Equal
Flexible Couplings (Stainless-steel nuts and bolts and be either stainless-steel bodies or all epoxy lined and coated	Smith-Blair Baker Or Approved Equal
Clamp Mechanical Couplings	Victaulic Company of America Gustin-Bacon Or Approved Equal

Other Materials

Description	Approved Manufacturer/Stock Number
Ring Flange Gasket *For below ground installation use non-asbestos paper* *For above ground installation use threaded flange rubber*	NFS-61 Approved for paper ASTM Approved for Rubber
Nuts and Bolts Sets *Must be 316 SS bolts with Blue Coated Nuts*	Tripac
Sampling Station	Kupferle Model #66 or Approved Equal
Tapping Sleeves (may only be used under approval of PWD Engineer) *Must be all stainless steel to include flange*	PVC (C-900), Ductile Iron, and Asbestos Concrete sleeves shall be: Mueller H-615 or Equal
Large Meter Vault Polymer/fiberglass blend vaults Cast-in-place and concrete block vaults to be approved by PWD Engineer	Jensen Pre-Cast Or Approved Equal