## EQUIVALENT MATERIALS LIST

APPROVED BY: 6-26-17	CITY OF ONTARIO
LOUIS ABI-YOUNES, CITY ENGINEER RCE DATE  RECOMMENDED:  62268  DENNIS MEJIA, UTILITIES ENGINEERING DIRECTOR RCE DATE  REV DESCRIPTION BY APP'D DATE	EQUIVALENT MATERIALS LIST

## HEALTH & SAFETY CODE SECTION 116875 CALIFORNIA ASSEMBLY BILL 1953 (AB-1953)

Beginning January 1, 2010, California Assembly Bill 1953 (AB-1953) mandates that any pipe, pipe or plumbing fitting, or fixture that is introduced into commerce in California MUST be "lead free" as defined in AB-1953.

No person shall use any pipe, pipe or plumbing fitting or fixture, solder, or flux that is not lead free in the installation or repair of any public water system, except when necessary for the repairs of leaded joints of cast iron pipes, excludes service saddles, backflow preventers for non-potable services such as irrigation and industrial, and water distribution main gate valves that are two inches in diameter and above. All pipe, pipe or plumbing fittings or fixtures, solder, or flux shall be certified by an independent American National Standards Institute (ANSI) accredited third party, including, but not limited to NSF International, as being in compliance with this section.

The following Equivalent Materials List shall adhere to the requirements set forth in AB-1953.

## <u>CITY OF ONTARIO</u> REVISIONS TO APPROVED MATERIALS LIST TABLE

Date	Revision	Item	Page
4/19/2022	Add Powerseal 3690AS	TAPPING SLEEVE FOR AC, DI, AND PVC PIPE	13 of 15

## CITY OF ONTARIO APPROVED MATERIALS LIST FOR POTABLE WATER, RECYCLED WATER AND SEWER FACILITIES (JUNE 2017)

Item	Description	Manufacturer
ADAPTER,	Mechanical x Flange. Steel or	Dresser 127
FLANGE COUPLING	Ductile Iron Construction without Anchor	Dresser 227
	Pins, Epoxy Coated	Ford FCA Style
	-	Powerseal 3521
		Powerseal 3528
		Romac FCA501
		Romac FC400
		Smith-Blair 912
		Smith-Blair 913
AIR/VACUUM VALVE	Min. 3/16" Thick Steel, Clam Shell Hinged	Pipeline Products VCDD-1624
ENCLOSURE	Construction, Polyester Powder Coated or	Christy's C-WASC-1624
	Polyethylene	Pipeline Products
	Enclosure Size As Indicated Below:	#VCAS-1830 (18" x30")
	1 " & 2" Air Vac Sizes Use: 18" x 30"	
	Color: Desert Sand or Baja Beige	
	550.	1
ANODE, MAGNESIUM	High or Standard Potential Anode,	
	Galvanized Steel Core Encased in Square	
	Magnesium Alloy Ingot Pre-Packaged in	
	Permeable Cotton Cloth Bag Filled with	
	75% Gypsum, 20% Bentonite, 5% Sodium	
	Sulfate Mixture. Provide Ingot Weight	
	Specified on the Approved Plans.	
	900.2	
AIR/VACUUM VALVE	For use on 1" and 2" Air/Vacuum Installations	Christy VC Series
SUCTION SCREEN	FIP Nylon Nut Style with 20 Mesh Stainless	McMaster-Carr 9877K52
	Steel Screen.	McMaster-Carr 9877K65
		Northtown Hytech
ANODE, ZINC	Pre-Packaged 6.8 Kg (15 lbs) Min. Sacrificial	Hytech Pipeline Products
	Anode, #12 THHN Lead Wire, for the Protection	CP-Z15
	of Copper Tubing.	
ZINC CAPS		Reliance Zinc Caps
		Mars Zinc Caps
ANTI-SEIZE	For use on Stainless Steel Bolts and Nuts	Locktite
COMPOUND		Nevr Seize

Item	Description	Manufacturer
BACKFLOW DEVICE	Reduced Pressure Principal Type Assemblies	PER LATEST EDITION OF USC - FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES.
BOLTS AND NUTS A307	Hex-Head Machine, Cadmium/Zinc Plated, ASTM A307, Grade A Bolts and A307 2H Heavy Hex Nuts.	
BOLTS AND NUTS A307	Hex-Head Machine, Fluoropolymer Coated, ASTM A307, Grade A Bolts and A307 2H Heavy Hex Nuts.	Tripac 2000 Blue
BONDING AGENT, EPOXY	Epoxy Resin Based Bonding Agent for Bonding New Mortar or Concrete to Existing Concrete	Sika Sikadur 32 Hi-Mod F.H. Mahoney
BUSHING INSULATING	Nylon, 1-1/4" x 1", 1-1/2" x 1", 2-1/2" x 2".	Calpico Corrosion Control Products F.H. Mahoney
CASING END SEAL	1/4" Thick Styrene Butadiene Rubber Sheet End Seal. Use 1" Wide Stainless Steel Bands. Zippered End Seals with Stainless Steel Bands May Also be Used.	Advanced Products & Systems Cascade Calpico Pipeline Seal & Insulator Powerseal Raychem
CASING SPACER	Stainless Steel Casing Spacer, Center Restrained, Position Type with PVC Liner and non-metallic Anti-friction Runners	Advance Products Systems Cascade Calpico Pipeline Seal & Insulator Powerseal Raychem
CATHODIC TEST, STATION BOX	54 Lbs Concrete Body with 12 Lb Ductile Iron Lid and Lid Ring. "CP TEST" Shall Be Cast into the Lid in 1" Letters. For Cathodic Protection Test Stations, Anode Ground Beds and Insulated Flange Test Stations.	Brooks 1-RT series Brooks NO. 36 - H.F.L. Farwest Type 1-RT J & R #10-R

Item	Description	Manufacturer
CATHODIC WELDING	For Welding Cathodic Bond Wires to Steel	Cadweld
	Pipelines	personal and a state of the sta
COATING, INTERNAL	For Coating the Internal Pipe Lining for an	Aquatapoxy CCI
PIPE	Insulated Flange	Hydro-Pox
COATING, MASTIC	Cold Applied Coal Tar or Epoxy Based	Carboline Bitumastic 50
	Single Component, Self-Priming, Heavy	Devoe Devtar 5A
	Duty Protective Exterior Coating for Buried	Polykem 938
	Concrete	Tnemec HB Tnemecol 46-465
		HB Tneme-Tar 46H-413
COATING, Wrap	Outer wrap.	Viscotaq
TWO PART		
CONNECTOR,	Direct Bury Silicone Filled Capsule Tube	3M DBR-6
TRACER WIRE	with Standard Wire Nut or Silicone Filled	King 4
	Wire Nut Connectors for Tracer Wire	King 5
	Connections	King 6
		~
CORPORATION STOP	Bronze Compression x MIP Thread Ball Valve	Ford FB1100-Q Series
COMPRESSION x MIP	1" and 2" Full Opening.	Jones E-1935
	9 9 99	Mueller P-25028N
	*	
		.1
CORPORATION STOP,	Bronze MIP x MIP Thread Ball Valve	Ford FB500-4
MIP X MIP	1" and 2" Full Opening	Ford FB500-7
		Jones J-1943
		A. Y. McDonald 3131B
		Mueller B-20013
		Mueller B-2969
		Jones E-1935
CORPORATION STOP	1" Bronze, IPS Compression x MIP Thread Ball	Mueller E-25029N
COMPRESSION x MIP	Valve 1" Full Opening.	Ford FB1101 Series
(PE Tubing)	Stainless Steel Insert/Stiffners & Restraint Screw	Jones E-1936
And the second s		
CORPORATION STOP	2" Bronze, CTS Compression x MIP Thread Ball	Mueller P-25028
COMPRESSION x MIP	Valve 2" Full Opening.	Ford FB1100 Series
(PE Tubing)	Stainless Steel Insert/Stiffners & Restraint Screw	Jones E-1935
CORPORATION STOP	2" Bronze, FIP x MIP Thread Ball	Mueller B-20046
FIP x MIP	Valve 2" Full Opening.	Ford FB1700
		Jones J-1931
		A. Y. McDonald 4104BF
1134		

Item	Description	Manufacturer
COUPLING,	Three Part Compression Coupling (Both	Ford C44-Q Series
COMPRESSION x	Ends) for 1" and 2" Copper Pipe	Jones J-2609SG
COMPRESSION	200	A.Y. McDonald 4758Q
		Mueller H-15403
COUPLING, C900 PVC	4" through 12" Solid PVC for Obtaining	Certainteed High Deflection (HD)
DEFLECTION	Deflection Only. Provides 5 Degree	
	Maximum Deflection	
COUPLING, C900 PVC	4" through 12" Solid PVC for Closure or	Certainteed Closure / Repair
CLOSURE / REPAIR	Repair	Couplings
COUPLING,	4" and Larger, Steel or Ductile-Iron	APAC 301
STRAIGHT FLEXIBLE	Construction, Slip x Slip, Epoxy-Coated with	Ford FC1
	304 or 316 Stainless Steel Bolts and Nuts.	Dresser 253
	For use on PVC, DI, or Steel Pipe.	Powerseal 3501
		Powerseal 3538
		Romac 501
		Smith-Blair 441
		Viking Johnson MaxiFit
COUPLING	4" and Larger, Steel or Ductile-Iron	APAC 311
TRANSITION	Construction, Slip x Slip, Epoxy-Coated with	APAC 313
FLEXIBLE	304 or 316 Stainless Steel Bolts and Nuts.	Baker
	For use on PVC, DI, or Steel Pipe.	Ford FC2A
		Dresser 253
		Powerseal 3501
		Powerseal 3538
		Romac 501
		Romac XR501
		Smith-Blair 413
CUSTOMER SIDE	3/4" and 1" Bronze Customer Shut-off	Ford B13-332W w/ HT34
SHUT- OFF VALVE	(Ball Valve), Inlet Swivel Meter Nut x Outlet	Ford B13-444W w/ HT34
	FIP Thread, Lockable Tabs, with Lever	Jones J-1908W
	Handle.	A.Y. McDonald 6101MW
		Mueller B-24351
CUSTOMER SIDE	2" Bronze Customer Shut-off	Jones J-1913F
SHUT- OFF VALVE	(Ball Valve), Meter Flange x Outlet	A.Y. McDonald 76101 MW-Flange
	FIP Thread, Lockable Tabs, with Lever	Ford BF 13-777W
	Handle.	Mueller B-24337N

Item	Description	Manufacturer
COUPLING,	4" and Larger, Steel or Ductile Iron	APAC 311, 313
TRANSITION	Construction, Slip x Slip, Epoxy Coated with	Baker
FLEXIBLE	304 or 316 Stainless Steel Bolts and Nuts.	Ford FC2A
	For Use on AC, PVC, DI, or Steel Pipe.	Powerseal 3501, 3538
		Romac 501
		Smith-Blair 413
		Smith-Blair 441
		Viking Johnson MaxiFit
COVER, MANHOLE	Manhole frame and cover shall be 30"	Alhambra Foundry No. A-1252-6
30"	Manhole cover shall be manufactured with the	Southbay Foundry SBF-1252
	letter "S" in the center of the cover.	National Cast Corp. NC-252
	"City of Ontario" shall also be inscribed on cover	
	per standard drawing.	Famcon Pipe & Supply, PAMREX
		(Lock down cover)
COVER, MANHOLE	Manhole frame and cover shall be 36"	Alhambra Foundry No. A-1251
36"	Manhole cover shall be manufactured with the	Southbay Foundry SBF-1251
	letter "S" in the center of the cover.	National Cast Corp. NC-251
	"City of Ontario" shall also be inscribed on cover	Famcon Pipe & Supply, PAMREX
	per standard drawing.	(Lock down cover)
COVER, VALVE	Valve box lid. 6-inch diameter.	Alhambra Foundry No. A - 29606,
DOMESTIC WATER	Marked "WATER"	No. A - 29608, (or equivalent)
		l service and service services and services are services and services and services and services and services and services are services are services and services are services are services and services are services
COVER, VALVE	Valve box lid. 8-inch diamter.	Alhambra Foundry No. A - 29608,
RECYCLED WATER	Marked "RECYCLED WATER"	(or equivalent)
ELL, BURY, DUCTILE	6" x 48" Ductile Iron Bury Ells, Long	Clow
IRON	Radius, Fla x MJ/PO (Use of Short Radius	Sigma
	Bury Ells with City Approval Only)	South Bay Foundry
ELL, BURY, DUCTILE	6" x 16" Ductile Iron Bury Ells, Long	Clow
IRON	Radius, Fla x MJ/PO (Use of Short Radius	Sigma
11	Bury Ells with City Approval Only)	South Bay Foundry
ELL, FIP x COMP, 45	1" and 2" Bronze Ell, FIP x Compression for	A.Y. McDonald 4747Q
Deg 1/8 BEND	Copper Pipe	Mueller H-15534
ELL, FIP x COMP, 90	1" and 2" Bronze Ell, FIP x Compression for	Ford I 14 440 I 14 770
Deg 1/4 BEND	Copper Pipe	Ford L14-44Q, L14-77Q Jones J-2621 SG
- og madenie	Sopport the	A.Y. McDonald 4779Q
		Mueller H-15533
		Ividellel H-10033
EPOXY ADHESIVE	High-Modulus, Low Viscosity, Epoxy Resin	Sika Sikadur 31
	Based Adhesive Suitable for Grouting Bolts	Sika Sikadur 35
	or Dowels	

Item	Description	Manufacturer
FIRE HYDRANT	Break-off Valves for Fire Hydrants.	Clow Valve Co. Model LBI 400A
BREAK-OFF CHECK		
VALVE		
FIRE HYDRANT,	6" Standard 150 PSI Wet Barrel Ductile Iron	AVK 24/70
150 PSI	(DI) or Bronze Fire Hydrants with Eignt-hole	AVK 24/90
NOTE: 10 TH	Bolt Pattern. DI Hydrants shall be	Clow 850 (DI only)
	Fusion Epoxy Lined.	Clow 950 (DI only)
		Clow 2050
1		Clow 2060
		Clow 2065
		Jones J-3701
		Jones J-3765
		Jones J-3775
		James Jones Co. J-4040B
		Long Beach 613
		Long Beach 615
		Long Bodon one
FIRE HYDRANT,	6" High Pressure 200 PSI Wet Barrel,	AVK 24/70
200 PSI	Ductile Iron Fire Hydrant, With Eight-hole	AVK 24/90
(as required)	Bolt Pattern. DI Fusion Epoxy Lined	Clow 850 (DI only)
		Clow 950 (DI only)
FIRE HYDRANT, CAP	Screwed Plastic Cap	AVK
	Fire Hydrant Hose Ports, 2-1/2" and 4"	Jones
		Long Beach
		US Pipe
FITTING, DUCTILE	Flanged, Mechanical, Joint or Push-on Tees,	Bachman
IRON	Bends, Crosses, Reducers, Adapters, etc., for	Griffin
	Water Lines 4" and Larger. Manufactured	Nappco/Sigma
	perAWWA C110, C111, C153. (SSB	Pipeline Components
	Fittings Will Not Be Permitted on C905	Star
	Pipe.)	Tyler
		SIP Industries
FITTING, CML/CMC	All Fittings constructed per latest	Ameron
	revision of A.W.W.A. C208 meeting all	Northwest
	City Standards. 10 Gauge Minimum Wall	West Coast
	Thickness. Steel Pipes Used for Recycled Water	Southland
	Installation are to be Identified Per City	J & K Welding
	Requirements.	Levco Fab Inc.
FRAME,	Frame & Cover for modified surveillance/monitoring	Alhambra Foundry No. A-1170
MONITORING	facility - traffic area (shallow depth)	

Item	Description	Manufacturer
GASKET	1/8" Thick Full face or ring, Aramid fiber	Calpico
	Bound with Nitrile. No Asbestos Content	Garlock 3000
		Johns-Manville
	1	Klinger 4401
		Tripac 5000
GASKET	1/16" Thick, Cloth Inserted Rubber, Full	Calpico
	Face or Ring	Coletech 2000
		Garlock
		Johns-Manville
		Tripac 2000
GASKET, RUBBER	1/8" Thick, Rubber Ring Type, 250 PSI	Calpico
RING	Maximum. For 4" Through 36" Pipe Flanges	Johns-Manville
		US Pipe
		9
GATE WELL	For Valve Installations: C900, DR14	Refer to PIPE, PVC C900
(Valve Can)	Class 200 PVC Pressure Pipe.	Applies to all buried valves
Ti.	Pipe Casing Colors-	
	Potable Water: White or Blue	
	Recycled Water: Purple	
GATE WELL CAP 6"	Ductile or Cast Iron Lid Used for	South Bay Foundry SBF B51
	Valve Access, 6" Nominal Diameter Lid with	
	a 6" Long Skirt and Lifting Slot. Minimum	
	Weight 22 lbs. For use in Areas where	
	Marked Water or Sewer	
GROUT	Non-Shrink Cement Based-Construction	Sika Sikagrout 212
0.1001	Grout for Crack Repair, Flooring Mortar,	STO Epoxy Binder CR633
	Dowel Grouting, Crack Sealing and General	STO Epoxy Gel CR635
	Binding	STO N-S Grout CR732
	Singling	OTO W O GROW OT VIDE
INSULATING	Insulating Blanket for Corrosion Interference	McMaster-Carr
BLANKET	Mitigation	
INSULATING	Insulating Couplings for Corrosion	Romac IC400
COUPLINGS	Protection of Pipelines	Romac IC501
		Smith-Blair 416
INSULATING GASKET	Insulating Gasket Kits for Corrosion	Advanced Product Systems
KIT	Protection of Pipelines	Calpico
		PSI - Gasket Seal
		PSI - Linebacler
		Farwest

Item	Description	Manufacturer
JOINT RESTRAINT	360 Degree Wedge Type Restraint System	Ford Uniflange 1300 Series
ASSEMBLY	for Ductile Iron, C900 PVC, and Steel Pipe,	Ford Uniflange 1500 Series
	Sizes 6" Through 24".	Sigma PV-Lok
		Star All-rip series 3600
		EBAA Iron 1100 Series
		EBAA 2000 Series
		Romac 600 Series
		Smith Blair
JOINT SEALING	For Use on Pre-cast Vault and Manhole in	Joint Scaling Compound
COMPOUND,	Grooved Joints Between Sections	Joint Sealing Compound
PLASTIC ROPE	Grooved Joints Between Sections	
PLASTIC ROPE		
LADDER, VAULT	High Strength 6061-T6 Aluminum Alloy, 1"	Alaco, Model 560
	Diameter Solid Rungs and 18" Between Side	1
	Rails. Ladder to Exceed Requirements	1
	CAL OSHA Standards	1
LIGHT SWITCH,	120 Volt, 20 AMP, Single Pole, Spring	
VAULT	Loaded with Clear Waterproof Cover	
	acada min elean vialerpreen es ter	
LIGHTS, VAULT	Non-Metallic Incandescent Vapor-tight, 120	
	Volt, 6.0 AMP, Wall or Ceiling Mounted,	
	with 100 Watt Bulb with Cage and Glass	
1	Protector for Bulb. Suitable for Wet	
	Locations. Two Light Fixtures Per Vault.	
LUBRICANT, PIPE	Rubber Gasket Pipe Lubricant for Use on	Christy Pro-Lube
GASKET	PVC or Ductile Iron Pipe Joints, NSF Listing	Whitlam Blue Lube
	Required	JTM Products/Phoenix
MANHOLE, CONE	Precast concrete manhole to ASTM C 478 and	American Pipe
AND SHAFT	City Standards	American Highway Products
		Associated Concrete
		B&W Precast Construction
		Howard Enterprises
		Inland Concrete
		Mar-Con Products
		Southwest Concrete
		Manhole Builders
METER BOX	13" x 24" Polymer Meter Box and Cover	
	5/8", 3/4", 1"	Armorcast Box P6001868x12
		w/ Cover A6001866
	(Purple color for recycled water)	

Item	Description	Manufacturer
METER BOX	17" x 28" Polymer Meter Box and Cover	
	1-1/2", 2"	Armorcast Box A6001419 (SA)
		w/ Cover A6001420
	(Purple color for recycled water)	
METER, FLANGE	Bronze Meter Flanges for 1-1/2" and	Ford CF Series
	2" Meters with Slotted Holes.	Jones J129
		A.Y. McDonald 610F
METER	Purchased through the City	Master Meter
5/8", 3/4", 1", 1 1/2" & 2"		
METER, 3" & 4"	Purchased through the City	Master Meter
3" & 4"		
METER	Purchased through the City	Master Meter
6" & 8"		
METER STOP, ANGLE	1" x 3/4", 1" Bronze Angle Meter Stop (Ball Valve)	
COMPRESSION X	with 90 Degree Lock Wing, Inlet	Jones E-1963W
METER	Compression (w/ restraint nut) x Swivel	
		Mueller P-24258N
METER STOP, ANGLE	2" Bronze Angle Meter Stop (Ball Valve)	
COMPRESSION X	with 90 Degree Lock Wing, Inlet	Jones E-1975W
METER	Compression (w/ restraint nut) x Outlet	
	Meter Flange	Mueller P-24276N
METER STOP, ANGLE	1" x 3/4", 1" Bronze Angle Meter Stop	Mueller E-24259N
COMPRESSION X	(Ball Valve) with 90 Degree Lock Wing, Inlet	Jones E-1962W
METER (PE Tubing)	IPS Compression x Swivel	Ford BA63- xxxW -NL
	Stainless Steel Insert/Stiffners & Restraint Screw	AY McDonald 74602B-33
METER STOP, ANGLE	2" Bronze Angle Meter Stop	Mueller P-24276N
COMPRESSION X	(Ball Valve) with 90 Degree Lock Wing, Inlet	Jones E-1975W
METER (PE Tubing)	CTS Compression x Outlet Meter Flange	
	Stainless Steel Insert/Stiffners & Restraint Screw	
MORTAR, REPAIR	Two Component, Low Shrinkage, Cement	Sika Sika Top 122, 123
	Based with High Compressive and Bonding	STO CR 735, CR 740
	Strength	
NOZZLE, WELD-ON	Weld-on Nozzle with Reinforcing Pad or	
	Collar for Connection to CMC/L Steel	
	Pipe. ASTM A-53B 1/4" Minimum	
	Thickness Seamless Pipe, Concrete Coated,	
	Mortar Lined with AWWA C207 Flange	
	Submittal Required	

Item	Description	Manufacturer
PAINT, POLYESTER	TGIC Polyester Powder For Air Vac and	Tiger Dylac Series 49
POWDER	Water Test Station Enclosures	Porter Paint J-Series
		Fuller O'Brien PF Series
PAINT,	One Component, Minimum 46% Solids (by	Amteco SA-3 Silicone Poly Plus
SILICONE ALKYD	Volume), 30% Silicone Content (by	Carboline Carbocoat 30
ENAMEL	Volume), High Gloss, VOC Compliant	Devoe Devshield 475
	Industrial Grade Paint.	Dunn Edwards 42-53
		Pittsburg Paint 97-480
		Porter Porter Guard 2200
		Sherwin Williams Steel
1		Master 9500
PAINT,	One Component, Rapid Dry 100% Acrylic	TMT-Pathway Waterbome
WATERBORNE	Latex Waterborne Marking Paint Meeting	Traffic Paint m2343A9
ACRYLIC LATEX	Cal/Trans Specification #8010-21C-30.	Ellis Paint Co. No. 1262
		Ellis Paint Co. No. 1400
PIPE, COPPER	1 " Type K Soft Seamless Rolled Tubing	Cerro
TUBING	2" Type K Soft Seamless Straight Lengths	Halstead
	1 " and 2" Type K Rigid Seamless Straight	Lee
	Lengths	Mueller
		Phelps-Dodge
		Streamline (factory plastic coated)
PIPE, POLYETHYLENE	1-inch diameter polyethylene water service pipe	Drisco
1" TUBING	latest revision of AWWA C901, iron pipe size	ADS
(PE Tubing)	tubing shall be rated for maximum working	
	pressure of 200 psi, based on ASTM D2837	
	(Blue or Black = domestic. Purple = recycled)	
PIPE, POLYETHYLENE	2-inch diameter polyethylene water service pipe	Drisco
2" TUBING	latest revision of AWWA C901, copper tube size	
(PE Tubing)	tubing shall be rated for maximum working	1
4	pressure of 200 psi, based on ASTM D2837	
	(Blue or Black = domestic. Purple = recycled)	
PIPE, DUCTILE IRON	For Water Lines 4" and Larger Manufactured	American Pipe
	per AWWA C111, C115, C150, C151.	Griffin
		Pacific States
		U.S. Pipe
		Electrosteel USA
PIPE, PVC C900	6", 8" & 12" in diameter per latest AWWA C900	Certainteed
	Class 200, potable white or blue, recycle purple,	Diamond Plastics
	6" for hydrants and gate wells	Extrusion Technologies
		IPEX
		Johns-Manville
		Pacific Western
		VinylTech
		JM Eagle

Item	Description	Manufacturer
PIPE, PVC C905	For 16" Water Lines per AWWA C905,	Certainteed
	potable white or blue, recycle purple	Diamond Plastics
		Extrusion Technologies
		IPEX
		Johns-Manville
		Pacific Western
}		VinylTech
		JM Eagle
PIPE, STEEL,	Steel Cylinder (CML&CMC), per AWWA M11 and	Ameron
CEMENT-MORTAR	City Standards. 10 Gauge Minimum Wall	Northwest
LINED AND COATED	Thickness. Steel Pipes Used for Recycled Water	Southland
(CML&CMC)	Installation are to be Identified Per City	West Coast Pipe
	Requirements.	West Coast Pipe
	, requirements.	
PIPE, VCP	Extra strength Vitrified Clay Pipe (VCP)	Gladding McBean
PIPE AND FITTINGS	shall conform to ASTM C-700 "Specifications	Pacific Clay
The present of the present week and the present of	for Extra Strength Vitrified Clay Pipe	Mission Clay
	Bell and Spigot	Building Products Co. (MCP)
	Don and opigot	Building Froducts Co. (MCF)
PLASTIC	12-mil Thick Polyethylene Encasement	<del>                                     </del>
ENCASEMENT	Sleeve for Ductile Iron Pipe (DIP)	
	per AWWA C105 and Recycled PVC,	
	or CMC/L Non-Purple Water Pipe.	
	Clear Sleeve for Potable Water,	
	Purple Color for Recycled Water	
	Pulple Color for Recycled Water	
PLASTIC WRAP	8-mil Thick Polyethylene Encasement for	
	Buried Fittings and Valves	
	Clear Sleeve for Potable Water	
	Purple Color for Recycled Water	
	a up to color for recoycled vialer	
PRIMER, WAX TAPE	Surface Primer for Underground Application	Denso Paste
	of Petrolatum Wax Tape	Trenton Tem-Coat
	The in the appropriate the property of the species	
PROTECTOR POST,	4" Diameter, 0.250" Wall steel pipe	
STEEL	Concrete Filled and painted safety yellow	
REFERENCE	High or Standard Potential Electrode with PVC	
ELECTRODE,	Pipe Housing Pre-Packaged in Permeable	
COPPER SULFATE	Cotton Cloth Bag Filled with 50% Gypsum/50%	
	Powered Bentonite Mixture. Electrode Shall	
	a Design Life of 15 Years with a Stability of +/- 5	
	Millivolts under a 3.0 Microampere Load.	
	Provide Electrode with Integrally Attached #10	
	AWG HMW/PE Insulated Wire.	
	The state of the s	
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Item	Description	Manufacturer
SEALANT	Chemical Grout for Joint Sealing	3M Scotch Seal
SEISMIC COUPLING	Flexible Expansion joints for Pipelines,	EBAA Iron Flex-Tend
	Reservoirs, Pump Stations, etc.	Romac FlexiJoint
		Star Pipe Starflex 5000
SERVICE SADDLE	Cast Brass ASTM B62 Body with Silicone	Ford 202B
ACP and DI PIPE	Bronze Double Straps, IP Outlet Sizes 1" and 2"	Jones J-979
		A.Y. McDonald 3826
		Mueller BR2B Series
		Romac 202B
SERVICE SADDLE	Cast Brass ASTM B62 Body with Double	Jones J-969
C900 PVC PIPE	Stainless Steel Straps, IP Outlet Sizes 1" and 2"	A.Y. McDonald 3856
	Installed on Pipe Sizes 4" through 12"	Mueller BR2BS Series
		Romac 202BS
SERVICE SADDLE	Bronze or Brass Saddle with Stainless Steel	Ford 202BS
FOR PVC C905 PIPE	Four Bolt Strap(s), IPT Thread Outlet for Sizes	Jones J-969
	1" and 2" Installed on Pipe Sizes 16" only	Mueller BR2BS Series
		Romac 202BS
STRONGBOX	Vandal Resistant Enclosure	Le Muer
(Backflow enclosure)		DPDI
		All-Spec
		Hydrocowl
		Hot Box
TAG, BRASS	I" Diameter, 18 Gauge Brass with 3/16" Die	
IDENTIFICATION	Stamped Letters and Numbers, Suitable	
	for Attachment to Cathodic protection Wires	
	by Means of a Nylon Zip Tie.	
TAPE, OUTER WRAP	Adhesive Plastic Outer Wrap for Wax	Polyken 960
	Petrolatum Tape in	Trenton Polyply
	Underground Applications	
TAPE, UTILITY	10 to 50 Mil x 2" Wide General Utility Tape	3M Scotchwrap 50
	for Corrosion Protection of Above and Below	3M Scotchwrap 51
	Ground Pipes and Fittings	Calpico
		Christy
		Northtown
		Polyken 900
TAPE, WARNING/	6" wide, Warning/Identification (Metallic)	Calpico, Type 1
IDENTIFICATION	Marking Tape for Buried Pipelines with	Line-Tec, Type B
FOR POTABLE	continuous warning "CAUTION POTABLE	T. Christy Ent., Type 1
WATER	WATER MAIN BURIED BELOW"	Terra Tape, Standard 250
		Thor, Elast Tec
		Northtown

Item	Description	Manufacturer
TAPE, WARNING/	6" wide, Warning/Identification (Metallic)	Calpico, Type I
IDENTIFICATION	Marking Tape for Buried Irrigation Pipelines.	Line-Tec, Type B
FOR RECYCLED	Purple Color with continuous warning	T. Christy Ent., Type 1
WATER	"CAUTION RECYCLED WATER MAIN	Terra Tape, Standard 250
	BURIED BELOW"	Thor, Elast Tec
		Northtown
TAPE,	Petroleum Saturated Synthetic Fabric Tape	Trenton # 1 Wax-Tape
WAX ABOVEGROUND	for Use on Aboveground Couplings, Flanges,	
	Fittings, Etc.	
TAPE, WAX	Petroleum Saturated Synthetic Fabric Tape	Densyl Tape
UNDERGROUND	for Use on Underground Couplings, Flanges,	Trenton #2 Wax-Tape
	Fittings, Etc. Primer and Outer Wrap	
e e	Required.	
TAPPING SLEEVE	Fabricated Steel Tapping Sleeve for 4"	Ford FTSS
FOR AC, DI, AND	Through 12" Wet Taps. Stainless Steel or Iron	JCM 432
PVC PIPE	Body with Stainless Steel Bolts and Nuts.	Mueller 615
The second secon		Mueller 619
		Powerseal 3460AS & 3490AS
		Romac STS-420
		Smith-Blair 665
	1	Simul-Blair 000
THREAD-O-LET	Forged Steel Threaded Half Coupling, ASTM	Bonney Forge
(Weld on)	A105. 3000#, NPT Threads.	ANVIL
		Allied Piping Products
		, ,
UTILITY BOX	Up to 4" service for manifold meter	Jensen W-300, W-500
VALVE STEM	Round or Square 1-1/2" Diameter Steel Rod,	Pipeline Products SX-900
EXTENSION, STEEL	Welded Construction, Hot Dipped	South Bay Foundry E4160
	Galvanized with Top Centering Ring	
	and AWWA 2" Operating Nuts Top and	1
	Bottom.	
VALVE, BALL WITH	3/4" & 1" Bronze, Straight, FIP x Meter Swivel	Ford B13-332W
LOCKING TABS	with Locking Tabs and Purple. Handle	Ford B13-444W
3/4" & 1"		Jones J-1 908W
		A.Y. McDonald 6101MW
		Mueller B-24351-1

Item	Description	Manufacturer
VALVE, BUTTERFLY	14" and Larger, AWWA C504, Class	Dezurik AWWA
(150 PSI)	150B with Ductile-Iron Body. Thermosetting or	Mueller Lineseal III
	Fusion Bonded Epoxy Coated and Lined. Class	Pratt Groundhog
	D or E Flange x Flange Ends.	
VALVE, BUTTERFLY	14" and Larger, AWWA C504, Class	Dezurik BAW 250
(250 PSI)	250B with Ductile-Iron Body. Thermosetting or	Mueller Lineseal XP 250
	Fusion Bonded Epoxy Coated and Lined. Class	Pratt Groundhog
	F Flange x Flange Ends.	
		l
VALVE,	Single Cast Body with Stainless Steel	1000 4400
COMBINATION AIR	Internal Parts, BUNA-N seats per AWWA	APCO 143C APCO 145C
RELEASE &	C512, and Epoxy Coated Interior	Crispin UL Series
AIR/VACUUM, UP TO 2"	per AWWA C550, N.P.T. Threaded Inlet and	Val-Matic 201 C.2
	Outlet. 300 PSI rated Body and Internals.	Cla-Val 33A
	Suction screen required.	Pratt WCV 01
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VALVE, AIR RELEASE	Single Body Style Combination Air Release	Crispin UL Series
& AIR/VACUUM,	and Air/Vacuum Valve. Stainless Steel	Val-Matic 200 Series
LARGER THAN 2"	Internal Parts, BUNA-N seats per AWWA	Cla-Val Series 35
	C512, with Protection Hood and Epoxy	Vent-O-Matic RBX Series
	Coated Interior per AWWA C550. Flanged	APCO 150 Series
	125# or 250# Inlet. 300 PSI Rated Body and	Pratt WCV 01
	Internals. Suction screen required.	
WALVE CATE	A <sup>B</sup> Through 40 <sup>B</sup> Nor Division	
VALVE, GATE, RESILIENT WEDGE	4" Through 12", Non-Rising Low Zinc Bronze or Stainless Steel Stem,	American FC, Series 2500
INCOLLENT WEDGE	Ductile-Iron Body and Bonnet, Stainless Steel	American R/D
	Trim Bolts, Encapsulated Wedge per AWWA	AVK 45 Clow 2639 F6100 Series
	C509 or C515 with Epoxy Coated Interior.	Kennedy Ken-Seal II, KRSR
	250 PSI Rating. Flanged ends.	Mueller 2361
	200 For Harrigon Chairs	M&H 4067
		M&H 7067
		U.S. Pipe Metroseal
		U.S. Pipe Metroseal 250
		AFC Series 2500
VALVE, PRESSURE	For Water Main Pressure Reducing,	Ames 910/610 Series
REDUCING	4" through 16"	Cla-Val 90G-01
		Singer 106 PR, 206 PR
		Watts ACV 115E Series
VALVE PRESSURE	For Water Main Processor Badasi	A 000/000 C
VALVE, PRESSURE RELIEF AND	For Water Main Pressure Reducing and	Ames 920/620 Series
SUSTAINING	Sustaining, 4" through 16"	Cla-Val 50-01, 650-01
COCIAINING		Singer 106 RPS, 206 RPS
		Watts ACV 116E Series

Item	Description	Manufacturer
VAULT, ACCESS	Vault Access Door, Dual Door	Bilco Type AD-JL
DOOR	Configuration, Spring Loaded and Counter	
	Balanced, with Inset for Padlock. H-10	
	Parkway or H-20 Street Loading Required.	
	Submittal Required.	
VAULT, LADDER UP	Vault Ladder Extension, Retractable, 48"	Bilco Ladder-Up
	Extension.	Pipeline Products VL-100
VAULT, PRECAST	For Pressure Reducing Stations, Meters	J&R
CONCRETE	Reservoir Altitude Valves, etc. Various	Eisel
	Sizes. Precast Base, Sections and Top	Brooks
	with Aluminum Two Leaf Access Door.	
8	Submittal Required.	
WATER TEST	Single Lockable Door, Powder Polyester Coated.	Koraleen Enterprises
STATION	6" dia (ID)	
ENCLOSURE		
WIRE, CATHODIC	Stranded Copper, 600 Volt Rated Insulation,	
	7/64" Thick High Molecular Weight	
	Polyethylene (HMW/PE) Insulation Jacket.	
	Use the Wire Sizes and Insulation Jacket	
	Colors of Wire as Required in Standard.	
WIRE, TRACER	#14 AWG Solid Copper OF Type Wire, with	Cosberg Industries
	Cross Linked Polyethylene Insulation. White	Paige
	or Yellow in Color. For direct burial.	Baron
		Northtown