

# CITY OF PROSSER APPROVED MATERIALS LIST

July 2020

MATERIAL	DESCRIPTION	PRE-APPROVED MANUFACTURER
<b>SANITARY SEWER AND STORM DRAINAGE</b>		
PVC Sewer & Joints, Fittings	4"-15" PVC - ASTM 3034, SDR 35 4" to 15" (< 15' depth) 4" to 15" (> 15' depth), PVC - ASTM F679 SDR 26 18" to 48" PVC SDR 26 Restrained gaskets ASTM F477, Pipe restraint joints, Ford 1300 mechanical Joints and fittings - SWSS 9-05.12 ASTM D3212, w/elastomeric gaskets	JM Eagle Diamond Royal Vynl Tech
Ductile Iron Sewer Pipe and Fittings	DI - ASTM A 21, 51 or AWWA C-151 and shall be Class 50 SWSS 9-05.13	US Pipe American Ductile Pacific State Cast Iron Pipe Co.
Percolation Trench (Perforated Corrugated Polyethylene Underdrain Pipe, Couplings, and Fittings) Storm Drain Pipe & Fittings	12" to 60" - AASHTO M294 Type CP or SP SWSS 9-05.2(8), (Smooth wall interior, corrugated exterior)  15" to 36", Aluminum per 9-05.11 - 16 ga Flexible 3/8" thick by 12" minimum width closed cell synthetic sponge rubber, ASTM D 1056 grade SCE-43 Coupling bands per 9-05.11 (1) 8" - 12" Solid Wall PVC - ASTM 3034 SDR 35 High-Density Polyethylene HDPE Pipe	ADS/Hancore  JM Eagle Diamond Royal Vinyl Tech ADS/Hancore
ADS 90°'s with Tapered Male End	Corrugated HI-Q x Smooth P.E. (tapered end section) PVC Tee ASTM 3034 SRR 35	ADS/Hancore  JM Eagle or approved equal
New Service Saddle	Gasketed "WYE" SWSS Section 7-17 & 7-18	GPK
New Service Saddle Tap on existing mainline	Single 3 1/2" Wide Strap Saddle (Concrete Pipe) Gasketed Sewer Saddle WYE or Single 3 1/2" Wide Strap Saddle (PVC Pipe)	Romac (CB Style)  Romac (CB Style) GPK
Manholes (Precast)	ASTM C478 or cone section eccentric to 24" opening	Reese, H2 Precast Wilbert Precast
Manholes (Precast) Pretreatment Manholes	Approved by DOE with a General Use Level Designation (GULD) total suspended solids (TSS) for influent concentrations greater than 100 mg/L but less than 200 mg/L	Contech Stormceptor Hydro International Downstream Def. Aqua-Swirl Concentrator
Detectable Marker Tape	Detectabel type marked "Sewer"	Visual Inspection

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Manhole Frames	Ring adjustments - precast concrete ASTM A48-64, Class 30, cast iron or ductile iron, frame weight-min 210 lbs <b>Domestic Stamped "USA"</b>	East Jordan Iron Works (3717Z) Olympic Foundry
Manhole Cover	Stamped "DRAIN" or "SEWER" Cast iron or ductile iron cover frame weight - min 147 lbs Heavy duty H-20 Rated <b>Domestic Stamped "USA"</b>	East Jordan Iron Works (3717C)
Manhole Ladder Steps	Co-polymer Polypropylene Steel Reinforced - ASTM C-478 with a 300 lb load capacity	Lane
Catch Basin Barrels	WSDOT Type 1, 1L, or 2	Reese Concrete, H2 Precast, Wilbert Precast
Cleanout Lid	8" diam. Frame/Lid for 6" or 8" CO <b>Domestic Stamped "USA"</b>	East Jordan Iron Works (3675)
Catch Basin Frames and Grates	WSDOT Std B-30.30-01 or B-30.40-01 Frame (round base)  Vane Grate (one directional flow) Bi-Vane Grate (two directional flow)	East Jordan Iron Works 00775311 or No. 00775310 East Jordan Iron Works 007750 Type M2 East Jordan Iron Works 007750 Type M3
Catch Basin Sediment Traps "Witches Hats"	Non-Woven Geotextile, 8 oz/yd <sup>2</sup>	Ultra Drain Guard 9227
Mortar/Grout	Non-Shrink	American All Patch, 20 Jet Set
Pipe Couplings	Transition Couplers - 4" & 6" Sewer Repair Couplers (SDR 35) - 8" & Larger	Fernco GPK
Geo-Textile Fabric	SWSS 9-33, Moderate Survivability, Non-Woven, ASTM D4632 (6 oz.)	Ten Cate Mirafi 160 N
Manhole Pipe Connectors	Cast-In flexible pipe connectors for Sanitary Sewer, all Diameters Storm Drain: 12" diam and smaller 12" diam and larger	A-LOK X-Cel  A-LOK X-Cel A-LOK Premium
Tracer Wire	12 gauge solid copper wire with green colored coating rated for 600V Splice Kit (600V, epoxy encapsulated)	Service Wire Co., TRACE 12YW  DBY
<b>WATER</b>		
Ductile Iron Pipe	DI - Class 52 (AWWA C151), Joints shall be push on (Tyton Joint) <b>Domestic Stamped "USA"</b>	US Pipe American Ductile
PVC Pipe	AWWA C900 DR 18 (4" to 12" Diam) AWWA C905 DR 18 (14" to 48" Diam)	JM Eagle Diamond Northern Royal Vinyl Tech
Fittings for DI and PVC	Mechanical Joint or Flanged conforming to AWWA C110 or C153 (Domestic)	Tyler Union
Detectable Marker Tape	Detectabel type marked "Water"	Visual Inspection

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Gaskets	For Ductile Iron & PVC Pipe: Rubber gasketed joints shall conform to ANSI/AWWA C111/A21.11, all gaskets shall be neoprene (150 lbs) <b>All mechanical joint gasket kits shall be labeled "Domestic"</b>	
Nuts, bolts, and studs	DI - ANSI 21.11 (AWWA C 111 and C 207) Alloy Steel - A307, grade B; Flange Bolts ANSI B16.1 (Domestic)	
Pipe Couplings	Straight, transition, reducing, and DI MJ sleeves - ANSI/AWWA C110/A21.10 or ANSI/AWWA C153/A21.53 PVC to AC <b>Domestic Stamped "USA"</b>	Romac Ford Tyler Romac
Tapping Sleeve (Tee)	Stainless Steel full circle - AWWA C223	Romac - SST
Restrained Systems	Pipe Joints, Flanges, MJ Fittings and others DI castings meeting ASTM A 536  <b>Domestic Stamped "USA"</b>	Romac Romagrip - DI & PVC Romac GripRing - DI & PVC Romac RFCA Ford (Uni-Flange) EBAA Series 1000 Megalug EBAA Series 2000 Megalug US Pipe and Tyler - MJ Field LOK EBBA Series 1500 Bell Restraint (PVC) EBBA Series 1700 Bell Restraint (DI)
Flanged Coupling Adaptors	Cast iron, 150 psi min rating, middle ring length 5" to 24"	Romac FCA
Joint Lubricant	Nontoxic lubricant (water soluble)	Pipe Manufacturers recommendations
Gate Valves - 10" or smaller	Resilient wedge with DI body (AWWA C515/C104 3" to 10") 2" square non-rising stem opening counter-clockwise	Clow R/W Mueller M&H Pratt American Flow Control Series 2500
Butterfly Valves - 12" or Larger	Rubber Seated - AWWA C504 Class 150B and C104, 2" square non-rising stem shaft seals designed for use with std split V type packing	Clow R/W Mueller M&H Pratt
Fire Hydrant	Dry-Barrel, Compression type with 5 1/4" Main Valve Operating and one 4" Steamer Port, 2 - 2 1/2" side ports Working pressure 150 lb - 1 1/2" Pentagon operating nut - AWWA C502	Mueller Centurion M&H 129S Clow Medallion
Fire Hydrant Paint	OSHA Safety Yellow	Rodda: Safety Yellow #749084
Hydrant Guard Posts	6" Sch. 40 Steel Paint	Sherman Williams - "Custom Clow Yellow"

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Fire Hydrant Connector & Cap	Storz Adaptor - HPHA50-45NH 4" x 4 1/2" NH	Harrington, Inc.
Air Relief	Per Engineer Recommendations	
Pressure Reducing Valve	Per Engineer Recommendations	Cla-Val - 36" Base
Valve Box - Slip Type	Cast Iron, sliding type adjustable with covers marked "Water" Bottom section - 36" height, Top Section 15 to 18" height  <b>Domestic Stamped "USA"</b>	Bottom Section - East Jordan Iron Works Tyler Union 562 Olympic Model 931 Lid - EJIW/Tyler Union - 145301 or 562, 6855
Tracer Wire	12 guage solid copper wire with blue colored coating rated for 600V Splice Kit (600V, epoxy encapsulated)	Service Wire Co., TRACE 12YW  DBY
<b>WATER SERVICE CONNECTION</b>		
3/4" to 2" Polyethylene pipe (Std. Service)	CTS Cross-linked Polyethylene (PEX) A Pipe - ASTM F876/F877 and ANSI/NSF Std. 14/61 or approved equal	Phillips Driscopipe Interstate Plastic Municipex/Rehau
3/4", 1", and 2" Service Saddle	I.P. (iron pipe) size and conform to AWWA C800, PVC C900 and D.I. pipe, epoxy or nylon coated. Sized for PVC when used on PVC	Romac 202NS  IP Thread FB1100
Corporation Stop (Direct) Corporation Stop (Saddle)	For CTS Cross-linked Polyethylene Pipe	Ford FB1000 Q-NL Ford FB1100 Q-NL
Meter Valve	Angle Ball Meter Valve for 1" service Line, NON 360° rotation	Ford BA43 NL CC Thread FB1000
Check Valve	Angle Check Valve for 1" service line	Ford HA34 NL
1" Service Fittings	Poly to copper or PVC Poly to galvanized or poly to poly	Ford - quick joint
1" Meter Setter 2" Meter Setter	Inlet ball valve, outlet check valve Quick joint inlet ball/outlet check, no bypass	Ford VBH-74-18W-44-44Q Ford VBH Series
Meter Boxes	Plastic Box for 3/4" and 1" meters Plastic Box for 1 1/2" to 2" meters	Raven 13"x24"x12" White Interior Raven 17"x30"x12" White Interior
Meter Box Lids	Traffic Rated	Raven 13"x24" meter box DI cover w/hinged reader and AMR hole or equivalent
	Traffic Rated	Raven 17"x 30" meter box DI cover w/hinged reader and AMR hole or equivalent
Water Meter	Model 25 (5/8" x 3/4") 70 (1")	Badger Orion HRE
Tracer Wire	12 gauge solid copper wire with blue colored coating rated for 600V Splice Kit (600V, epoxy encapsulated)	Service Wire Co., TRACE 12YW  DBY
<b>STREETS</b>		
Detectable Warning Patterns (truncated dome)	Per WSDOT Std. Spec 8-14.3(5) Cast in Place	Armor - Tile (QPL)
Concrete Curing Compound	Liquid membrane forming compound water based, wax-based, type 2	WR Meadows 1600 - Clear (QPL)

	Class A, Clear pigmented	
Survey Monument Frame and Cover	Cover shall read "Mon" and shall have 2 pick holes, 1 on each side of Lid	East Jordan 3680Z A2 (00368005)
<b>MATERIAL</b>	<b>DESCRIPTION</b>	<b>Domestic Stamped "USA"</b> <b>PRE-APPROVED MANUFACTURER</b>
Concrete for Curb, Gutter and Sidewalks	Contractor submitted Mix Design Min 6-sack Mix, 564Lbs of Cement	
Utility Conduits	Below grade - Schedule 40 PVC	Ridgeline, Crestline
Utility Conduits Fittings	Conforming to NEMA TC 2 Rigid Steel Conduit and Fittings shall be used for all bends, entrances, and exits of pull boxes	
Light Poles	Light Poles and Arms shall be hot-dipped galvanized per ASTM A-123 Anchor bolts, nuts, and washers shall be the same per ASTM A-153 Poles shall be mounting height 35 ft and have 12 ft arms for Major/Minor Collectors and 8 ft arms for Local Access Light Stds. Shall be designed to min 90 mph wind velocity	Poles - Valmont Arms - Valmont DS 210, Union Metal 71049-B48 or Ameron Series N tapered
Luminaires	LED 42, 53, 101, 139 Watt CREE LED XSP2 Series, Version C, Type 214 E Distribution w/BLS Distribution for Art/Collectors Type 2 Medium w/BLS (local access) 4000K, 139W, 120-277V	CREE LED XSP2 Series without individual photo electric controls
J-Box, Cable Vault, Pull Box & Service Cabinet	Per Std. Plan J-40.10-03 Type 1 Service Cabinet Per Std. Plan J-10.20-01	Quazite (PG Style) J-Box
Pavement Markings Paint	Low Voc Solvent Based Paint White ID: 984761 Yellow ID: 984762	Univar Solvent - Alpine Products
Pavement Markings Plastic	Plastic Type B - Pre-Formed Fused Thermoplastic Premark - White	Ennis-Flint (QPL) Swarco (QPL), TSS
Sign Posts	Telspar - 2" x 2" 12 ga perforated galv. steel tubing. Anchors - Telspar 2 1/4" x 2 1/4" x 30" 12 ga perforated galv. Steel tubing.	Traffic Safety Supply (QPL) National Sign & Barricade (Spokane)
Signs	High intensity reflective background sheeting material	Traffic Safety Supply (QPL) National Sign & Barricade (Spokane)
<b>IRRIGATION</b>		
Pipe	Outside ROW, PVC Class 200, SDR21 3" and smaller - Solvent Weld 4" and larger - ring gasketed joints Within ROW, PVC Schedule 40 (3" and smaller). PVC C900 or C905 4" and larger under roadway	Pacific States US Pipe JM Eagle Crestline
Service Line	CTS Cross-linked Polyethylene (PEX) A Pipe - ASTM F876/F877 and ANSI/NSF Std. 14/61 or approved equal	Phillips Driscopipe Interstate Plastic Municipex/Rehau

Corporation Stop	CTS Cross-linked Polyethylene Pipe	Ford C84-44-Q-NL
Service Curb Stop	CTS Cross-linked Polyethylene Pipe	Ford BA41-444W-Q-NL
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Fittings for PVC Pipe	Mechanical Joint or Flanged conforming to AWWA C110 or C153	Tyler Union
Valve Box - Slip Type	Cast Iron, sliding type adjustable with covers marked "Irrigation" Bottom section - 36" height, Top Section 15 to 18" height	EJIW/Tyler Union - 6855  Lid - Tyler Union - 562
Irrigation Box	Plastic Box	Dura - 12"x17"x12"
Irrigation Lid	Plastic Lid - Heavy Duty	"T" Lid marked Irrigation
Gate Valves - 8" and smaller	Resilient wedge with cast iron body AWWA C509 under 4" or AWWA C515 for 4" and larger, non-rising stem, Direction for opening - Counter Clockwise	Clow M&H Mueller American Flow
Galvanized pipe and Fittings 1" and larger	ASTM A53 (AWWA C800 Sec. A.4 Steel Pipe (Domestic)	Smith Cooper or approved equal
Tracer Wire	12 guage solid copper wire with purple colored coating rated for 600V Splice Kit (600V, epoxy encapsulated)	Service Wire Co., TRACE 12YW  DBY
Detectable Marker Tape	Detectabel type marked "Irrigation"	Visual Inspection