

CITY OF EDMONDS
MATERIAL MODIFICATIONS
DIVISIONS 7, 8 AND 9

CITY OF EDMONDS MODIFICATIONS TO MATERIALS IN DIVISIONS 7, 8 AND 9 OF THE STANDARD SPECIFICATIONS:

The following material specifications shall clarify, supplement and supersede, where applicable, the WSDOT Standard Specifications.

MATERIALS

A. City of Edmonds approved materials:

1. WATER SYSTEMS

MATERIAL	DESCRIPTION	MANUFACTURER
Watermain Pipe	Class 52 ductile iron (AWWA C151) (or class as noted on plans) push on joint gasketed pipe	US Pipe, American, Pacific States
Pipe Fittings (MJ/Flanged)	Cement lined ductile iron	AWWA C110
Couplings	Long Body Ductile Iron, MJ	
Restrained Joints for Pipe (locking gasket)	Locking Gasket (per manufacturer)	US Pipe, American, Pacific States
Restrained Joints for Pipe (mechanical)	Mega-Lug Series 1100HD 600 Series Uni-Flange Series 1490	EBAA Romac Ford
Restrained Joints for MJ Fittings	Mega-Lug Series 1100 One-Lok D Slide Uni-Flange Series 1400 StarGrip series 3000 Romagrip	EBAA Sigma Ford Star Pipe Romac
Joint Lubricant	ANSI/NSF Standard 61	
Gate Valves, Resilient Seat (12" & smaller)	4067 2500 2638/2639 2300	M&H American Flow Control Clow Mueller Co.
Butterfly Valves	Groundhog Series 4500 Lineseal III	Pratt M&H Mueller Co.
Tapping Sleeve	18-8 Type 304 stainless steel with CF8 cast stainless steel flanged end with ANSI 150 pound drilling and tapping valve	Romac, JCM
Valve Box Top – 18"	Seattle Style 940 (deep skirt lid)	Olympic Foundry Inc.
Fire Hydrants with 4" Storz Adapter	Centurion, Super Style 129 Medallion Pacer	Mueller Co. M&H Clow Waterous
Combination Air Vacuum Relief Valve (ARV) 2"	Series 140c Model 202c Model UI-20	APCO Val-Matic Crispin
Automatic Control Valve	100-01	Cla-Val
Valve Insertion	AVT EZ2 valve	Advanced Valve Technologies
Cross Connection Assemblies	Cross Connection Assemblies	Current Washington State approved listing
Flex Couplings (water main)	Ductile Iron Bolted (Stab-Fit)	Mueller, Romac, Ford, Smith Blair

Water Services and Connections

MATERIAL	DESCRIPTION	MANUFACTURER
Copper Pipe – 1” Service	Soft, type K, ASTM B 88	Streamline, Cerro
Polyethylene Pipe – 2” Service	Municipex	Rehau
Tracer Wire – 2” Service	1230B-HS, blue	Copperhead
Service Saddle - 2” IP D.I. saddle with dual stainless steel straps	317 Series Model 202S FCD 202 DR2S	Smith Blair Romac Ford Mueller Co.
Service Saddle – 1” CC D.I. saddle with single stainless steel strap	Model 101s FC 101 315 Series DR1S	Romac Ford Smith Blair Muller Co.
Ball Corp. Stops 1” CCxCTS	FB1000-Q B-25008N 74701-BQ	Ford Mueller Co. A.Y. McDonald
Ball Corp. Stops 2” IP	FB 500-7 B-2969N 73131B	Ford Mueller Co. A.Y. McDonald
Ball Curb Stops 1” MIPxCTS	B-84-444Q B25122N 76107Q	Ford Mueller Co. A.Y. McDonald
Service Fittings	110 Compression quik-joint Q series	Mueller Ford A.Y. McDonald
Meter Setters: <ul style="list-style-type: none"> • New 1” • Replace Exist 1” 	Ford VBH74-15W-11-44 A.Y. McDonald 20-415-WCDD44 Ford VB74-15W-11-44 A.Y. McDonald 20-415-WXDD44	Ford A.Y. McDonald Ford A.Y. McDonald
Meter Setters: <ul style="list-style-type: none"> • New 2” • Replace Exist 2” 	Ford VBH87-12HB-1177 Ford VBB87-12HB-1177	Ford Ford
1” Meter Boxes (Unpaved Areas)	1324x12 BCF Box - Ductile Iron Cover with Reader Door	Carson/Oldcastle
1” Meter Boxes (Paved Areas & Driveways)	A6001946PCX12 Box with A6001969RCI Cover with Hinged Reader Lid	Armorcast
2” Meter Boxes – 1730 x 18	Box: A6001640PCX18 Lid: A6001947TRCIH7	Armorcast
2” Blow-Off Boxes – 1730 x 12	Box: A6001640PCX12 Lid: A6001947T	Armorcast

2. **SEWER SYSTEM** (sewer pipe)

MATERIAL	DESCRIPTION	MANUFACTURER
Pipe	PVC, SDR 35, ASTM D3034, push on joint gasketed pipe	
Fittings and sewer service	Same material as pipe PVC sand collars	
Manholes	Precast ASTM C478, 48" min. at bottom. top concentric to 24" opening	
Manhole steps	Polypropylene, ASTM D-4101 material over ASTM A-615, grade 60 steel reinforcing bar, step to comply with ASTM C-478	Lane, MA Industries
Frames and covers 24" Manhole	ASTM A48, Class 35, Cast Iron	East Jordan Ironworks, Product #00371584
12" Cleanouts	ASTM A48, Class 35, Cast Iron	East Jordan Ironworks, Product #00366102
Transition couplings	Longitudinally bolted coupling with gasketed joints	Romac, Dresser, Rockwell

3. **STORM DRAIN SYSTEM**

MATERIAL	DESCRIPTION	MANUFACTURER
Pipe	Concrete, reinforced, ASTM C76 or AASHTO M 170 Concrete (non-reinforced) ASTM C14 or AASHTO M86, class 2	
	PVC, SDR 35, ASTM D3034, push on joint gasketed pipe	
	Ductile iron, class 50, push on joint gasketed pipe	
	Perma-loc series 46, push on joint gasketed pipe	J.M. Manufacturing Co.
Fitting	Same as pipe material PVC sand collars	
Manholes	Precast ASTM C478, 48" min. at bottom, flat slab top, 8" min. thickness, 24" opening,	
Manhole steps	Polypropylene, ASTM D-4101 material over ASTM A-615, grade 60 steel reinforcing bar, step to comply with ASTM C-478	Lane, MA Industries
Frames and covers	ASTM A48, class 35, coated cast iron	East Jordan Ironworks, Product# 00371594
Transition couplings	Longitudinally bolted coupling with gasketed joints	Romac, Dresser, Rockwell

B. **SUBSTITUTIONS**

MATERIAL	DESCRIPTION	MANUFACTURER
	Provide submittals for substitute materials to the Engineer for approval in accordance with the Special Provisions and the Standard Specifications	