

Missouri American Water Company Pipeline Specifications 2018 Year End Revisions Revision Log					
Revision	Author	Date	Section	Description	Notes
1	Dave Pruitt	11/2018	Summary of Work-01000.1.02.A	Clarified RPR to be Resident Project Representative	
2	Dave Pruitt	11/2018	Summary of Work-01000.1.02.B	Added Owner shall transfer lead service lines	
3	Dave Pruitt	11/2018	Summary of Work-01000.1.02.C	Added See Specification Special Conditions-01011	
4	Dave Pruitt	11/2018	Summary of Work-01000.1.03.A	Removed wording "Installed by Contractor" and removed all other items with exception to meters	
5	Dave Pruitt	11/2018	Drawing Index 01010	Removed drawing 0201-0601-SD21 and replaced with 0201-0601-SD02 and 0201-0601-SD04	Drawing 0201-0601-SD21 is obsolete and no longer used
6	Dave Pruitt	11/2018	Drawing Index 01010	Revised drawing 0201-0601-SD54 Installation-PVC Pipe	
7	Dave Pruitt	11/2018	Drawing Index 01010	Revised drawing 0201-0601-SD55 Installation- DIP-Soil	
8	Dave Pruitt	11/2018	Drawing Index 01010	Revised drawing 0201-0601-SD56 Installation- DIP-Rock	
9	Dave Pruitt	11/2018	Drawing Index 01010	Remove drawing 0201-0601-SD70 Automatic Air Release Detail	Drawing is obsolete and no longer used
10	Dave Pruitt	11/2018	Drawing Index 01010	Revised drawing 0201-0601-SD71 Automatic Combination Air Release/ Vacuum Valve Detail	
11	Dave Pruitt	11/2018	Drawing Index 01010	Revised drawing 0201-0601-SD01 Blow-Off/ Flushing Hydrant Assembly Detail	
12	Dave Pruitt	11/2018	Drawing Index 01010	Revised drawing 0201-0601-SD08 Dead-End PVC or DIP Blocking Method Detail	
13	Dave Pruitt	11/2018	Drawing Index 01010	Revised drawing 0201-0601-SD69 Manual Air Release Detail	
14	Dave Pruitt	11/2018	Specifications Special Conditions -01011	Removal of separate district conditions and added Section 01011 to specifications	Entirely new section
15	Dave Pruitt	11/2018	Basis of Payment 01075	Complete revision of this section	
16	Dave Pruitt	11/2018	Submittals 01300.1.1.1	Complete revision of this section	
17	Dave Pruitt	11/2018	Submittals 01300.1.1.4	Complete revision of this section	
18	Dave Pruitt	11/2018	Existing Utilities and Structures 02025.3.02.D	Removed reference to drawing 0201-0601-SD44. Updated storm/ sanitary drain repair requirements	Drawing 0201-0601-SD44 no longer used
19	Dave Pruitt	11/2018	Trenching, Backfilling and Compacting 02210.2.01.A	Decreased maximum allowable stones to be 4"	
20	Dave Pruitt	11/2018	Trenching, Backfilling and Compacting 02210.2.02.A-3.07.C	Replaced clean granular backfill with 3/4" minus granular	
21	Dave Pruitt	11/2018	Trenching, Backfilling and Compacting 02210.3.04	Removed Article 6 designation	
22	Dave Pruitt	11/2018	Trenching, Backfilling and Compacting 02210.3.06-3.07	Clarified compaction requirements	
23	Dave Pruitt	11/2018	Trenching, Backfilling and Compacting 02210.3.07	Combined section 3.07 and 3.08 to include backfill requirements under all pavement	
24	Dave Pruitt	11/2018	Trenching, Backfilling and Compacting 02210.3.08	Changed section 3.08 to be Jetting of backfill material	
25	Dave Pruitt	11/2018	Casting Installation 02220.3.05.D	Removed reference to HDQ Specifications	
26	Dave Pruitt	11/2018	Identification Location Guide 02558.2.01.C	Changed tracer wire mounting from 10 ft. to 6 ft. intervals	
27	Dave Pruitt	11/2018	Identification Location Guide 02558.2.02.B	Changed Restrained Joint Gasket Tape to Restrained Joint Tape	
28	Dave Pruitt	11/2018	Identification Location Guide 02558.2.02.C	Added approved manufacturer, AA Thread Inc.	
29	Dave Pruitt	11/2018	Identification Location Guide 02558.3.01.A	Added Ductile Iron	
30	Dave Pruitt	11/2018	Piping-General Provisions 15000.3.03.D	Removed reference to pay for valve marking posts per unit price	
31	Dave Pruitt	11/2018	Piping-General Provisions 15000.3.03.D	Removed reference of marking post standard detail drawing	
32	Dave Pruitt	11/2018	Disinfecting Pipelines 15020.3.04	Removed the word "Heavily" from the title	Regarding disposal of Chlorinated water
33	Dave Pruitt	11/2018	Disinfecting Pipelines 15020.3.04.B	Added clarification on chlorinated water neutralization	
34	Dave Pruitt	11/2018	Pressure and Leakage Tests 15030.1.01	Removed pressure test limitation of 1200hr intervals	
35	Dave Pruitt	11/2018	Ductile Iron Pipe and Fittings (Contractor Furnished) 15106.1.04	Added Reference ISO 8179-1 for Ductile Iron pipes-External Zinc Based Coating	
36	Dave Pruitt	11/2018	Ductile Iron Pipe and Fittings (Contractor Furnished) 15106.2.01.A	Added external zinc coating as an option on ductile iron pipe and also added internal non seal coat as an option	
37	Dave Pruitt	11/2018	Ductile Iron Pipe and Fittings (Contractor Furnished) 15106.2.01.C	Revised pipe class to be thickness class. Class 52 for sizes 4"-12" and Class 54 for sizes 16"-24"	Old Class was Pressure Class 350 for pipe sizes 6"-12" and Pressure Class 250 for pipe sizes 16"-24"
38	Dave Pruitt	11/2018	Ductile Iron Pipe and Fittings (Contractor Furnished) 15106.2.01.E.2	Revised Flanged Gasket requirement	Removed "Red" rubber flanged gaskets
39	Dave Pruitt	11/2018	Ductile Iron Pipe and Fittings (Contractor Furnished) 15106.2.01.E.3	Added restrained joint gaskets on pipe to pipe applications only for sizes 4"-12"	
40	Dave Pruitt	11/2018	Ductile Iron Pipe and Fittings (Contractor Furnished) 15106.2.01.E.3	Revised restraint system requirements and revised minimum working pressure for pipe sizes 30"-64" to 250 PSI	Old minimum working pressure on fittings 30"-64" was 200 PSI
41	Dave Pruitt	11/2018	Ductile Iron Pipe and Fittings (Contractor Furnished) 15106.2.01.F	Removed Griffin Pipe as an acceptable manufacturer	US Pipe acquired Griffin Pipe in 2014
42	Dave Pruitt	11/2018	Ductile Iron Pipe and Fittings (Contractor Furnished) 15106.2.02.A.1	Revised working pressure for compact ductile iron fittings sizes 54"-64" to 250 PSI	Old working pressure on sizes 54"-64" was 150 PSI
43	Dave Pruitt	11/2018	Ductile Iron Pipe and Fittings (Contractor Furnished) 15106.2.02.B.2	Revised Flanged Gasket requirement	Removed "Red" rubber flanged gaskets
44	Dave Pruitt	11/2018	Ductile Iron Pipe and Fittings (Contractor Furnished) 15106.2.02.B.3	Revised restrained system minimum working pressure on 20" fittings to 350 PSI	Old minimum fitting working pressure for 20" was 300 PSI
45	Dave Pruitt	11/2018	Ductile Iron Pipe and Fittings (Contractor Furnished) 15106.2.02.B.3.C	Added to acceptable suppliers Metafit, Star and Sigma fittings through American Cast Iron Pipe Company. Added Star fittings through United States Pipe and Foundry Company	
46	Dave Pruitt	11/2018	PVC Pipe (Owner Furnished) 15120.1.02.B.2	Removed C905 and combined pipe sizes into C 900	
47	Dave Pruitt	11/2018	PVC Pipe (Owner Furnished) 15120.1.01.C	Added Insertion of a Ductile Iron (DI) spigot into a PVC bell is prohibited.	
48	Dave Pruitt	11/2018	PVC Pipe (Owner Furnished) 15120.3.01.H.2	Removed reference to contiguous tracer wire installation	Tracer wire installation is defined in 02558
49	Dave Pruitt	11/2018	PVC Pipe (Contractor Furnished) 15121.1.02.B.2	Removed C905 and combined pipe sizes into C 900	
50	Dave Pruitt	11/2018	PVC Pipe (Contractor Furnished) 15121.2.02.B	Removed CertainTeed Pipe and Plastics Group	CertainTeed Pipe and Plastic group sold to NAPCO in 2013
51	Dave Pruitt	11/2018	PVC Pipe (Contractor Furnished) 15121.2.02.C	Expanded approval to use Certa-Lok for 4"-12" and Yellowmine on 2" only	The old spec limited Yellowmine for temp service only
52	Dave Pruitt	11/2018	PVC Pipe (Contractor Furnished) 15121.2.02.C	North American Pipe Company D/B/A NAPCO Pipe and Fittings	
53	Dave Pruitt	11/2018	PVC Pipe (Contractor Furnished) 15121.2.02.F	Removed Diamond Plastics Inc. and added Pipelife Jetstream Inc. as approved manuf.	
54	Dave Pruitt	11/2018	PVC Pipe (Contractor Furnished) 15121.3.01.C	Added Insertion of a Ductile Iron (DI) spigot into a PVC bell is prohibited.	
55	Dave Pruitt	11/2018	PVC Pipe (Contractor Furnished) 15121.3.01.H.2	Removed reference to contiguous tracer wire installation	Tracer wire installation is defined in 02560
			High Density Polyethylene (HDPE) Pipe and Fittings for Water and Wastewater Mains (Contractor Furnished) 15125.1.01	Added other size as approved by Engineer	Previous version indicated HDPE use 4"-12"
56	Dave Pruitt	11/2018	High Density Polyethylene (HDPE) Pipe and Fittings for Water and Wastewater Mains (Contractor Furnished) 15125.3.03.G	Added min. 24 hr. relaxation period for HDPE requirement.	
57	Dave Pruitt	11/2018	High Density Polyethylene (HDPE) Pipe and Fittings for Water and Wastewater Mains (Contractor Furnished) 15125.3.03.G	Changed drawing index number to 0201-0601-SD04	Previous version of drawing 0201-0601-SD01
58	Dave Pruitt	11/2018	High Density Polyethylene (HDPE) Pipe and Fittings for Water and Wastewater Mains (Contractor Furnished) 15125.3.04.H	Changed drawing index number to 0201-0601-SD04	Previous version of drawing 0201-0601-SD01
59	Dave Pruitt	11/2018	High Density Polyethylene (HDPE) Pipe and Fittings for Water and Wastewater Mains (Contractor Furnished) 15125.3.04.I	Changed drawing index number to 0201-0601-SD04	Previous version of drawing 0201-0601-SD01
60	Dave Pruitt	11/2018	Piping Specialties (Contractor Furnished) 15131.2.01.A	Added V-Bio Enhanced Polyethylene encasement added as optional	
61	Dave Pruitt	11/2018	Piping Specialties (Contractor Furnished) 15131.2.01.A.7	Added "Water" is not labeled on V-Bio Enhanced Polyethylene encasement	
62	Dave Pruitt	11/2018	Piping Specialties (Contractor Furnished) 15131.2.01.D	Added V-Bio is while in color and 8 mils thick	
63	Dave Pruitt	11/2018	Piping Specialties (Contractor Furnished) 15131.2.01.E	Added approved manufacturers for V-Bio Enhanced Polyethylene encasement- Balcan Plastic Ltd-First Film Extruding and Crayex Corporation	
64	Dave Pruitt	11/2018	Piping Specialties (Contractor Furnished) 15131.2.04.Ai	Added allowance to use ASTM F1674 for use on AWWA C900 PVC Pipe	
65	Dave Pruitt	11/2018	Piping Specialties (Contractor Furnished) 15131.2.04.Aii	Added Ebbra Iron restraint glands to be used on C900 PVC pipe	Previously only allowed on Ductile Iron Pipe
66	Dave Pruitt	11/2018	Piping Specialties (Contractor Furnished) 15131.2.04.Aii	Removed Infact Corporation from Specialty Retaining Gland Section	
67	Dave Pruitt	11/2018	Piping Specialties (Contractor Furnished) 15131.2.04.Aii	Removed reference to C905 under approved manufacture ROMAC Industries, Inc.	
68	Dave Pruitt	11/2018	Piping Specialties (Contractor Furnished) 15131.2.04.Bii	Included HDPE pipe reference to ROMAC Ind. Alpha Restrained Joint couplings	
69	Dave Pruitt	11/2018	Piping Specialties (Contractor Furnished) 15131.2.04.Bii	Added Infact Corporation to Specialty Restraining Couplings approved manufactures	Previous version was listed in Specialty restraining Gland Section
70	Dave Pruitt	11/2018	Piping Specialties (Contractor Furnished) 15131.3.01.A.9	Added installation requirements for V-Bio Enhanced Polyethylene encasement	
71	Dave Pruitt	11/2018	Gate Valves Contractor Furnished 15151.2.01.B	Created entire new section for Owner Furnished	
72	Dave Pruitt	11/2018	Gate Valves Contractor Furnished 15151.2.01.A	Changed Resilient seated to Resilient sealed	
73	Dave Pruitt	11/2018	Gate Valves Contractor Furnished 15151.2.01.A	Changed minimum diameter from 4" down to 2"	
74	Dave Pruitt	11/2018	Gate Valves Contractor Furnished 15151.2.01.B	Added allowance to use AWWA C515	
75	Dave Pruitt	11/2018	Gate Valves Contractor Furnished 15151.2.01.B	Added submittals must include the ASTM low zinc designation	
76	Dave Pruitt	11/2018	Gate Valves Contractor Furnished 15151.2.01.B	Removed the wording for specific type of valve ends	We allow all types of valve ends
77	Dave Pruitt	11/2018	Gate Valves Contractor Furnished 15151.2.01.B	Removed script that explains direction of valve opening "Open Left or Open Right"	
78	Dave Pruitt	11/2018	Gate Valves Contractor Furnished 15151.2.01.C	Added paragraph "C" to explain direction of opening of the valve. "Open Left or Open Right"	
79	Dave Pruitt	11/2018	Gate Valves Contractor Furnished 15151.2.01.D	Added allowance to use AWWA C515	
80	Dave Pruitt	11/2018	Gate Valves Contractor Furnished 15151.2.01.E	Added paragraph "E" to list "Approved manufactures.	Previous version this was listed in Paragraph "D"
81	Dave Pruitt	11/2018	Gate Valves Contractor Furnished 15151.2.02.A	Removed script that explains direction of valve opening "Open Left or Open Right"	
82	Dave Pruitt	11/2018	Gate Valves Contractor Furnished 15151.2.02.A	Added submittals must include the ASTM low zinc designation	
83	Dave Pruitt	11/2018	Gate Valves Contractor Furnished 15151.2.02.B	Added paragraph "B" to explain direction of opening of the valve. "Open Left or Open Right"	
84	Dave Pruitt	11/2018	Gate Valves Contractor Furnished 15151.2.02.F	Added paragraph "F" to list "Approved manufactures.	Previous version this was listed in Paragraph "E"
85	Dave Pruitt	11/2018	Butterfly Valves Owner Furnished 15154	Created entire new section for Owner Furnished	
86	Dave Pruitt	11/2018	Butterfly Valves Contractor Furnished 15155.2.01.A	Removed script that explains direction of valve opening "Open Left or Open Right"	
87	Dave Pruitt	11/2018	Butterfly Valves Contractor Furnished 15155.2.01.B	Added paragraph "B" to explain direction of opening of the valve. "Open Left or Open Right"	
88	Dave Pruitt	11/2018	Butterfly Valves Contractor Furnished 15155.2.01.H	Added paragraph "H" to list "Approved manufactures.	Previous version this was listed in Paragraph "G"
89	Dave Pruitt	11/2018	Tapping Saddles, Sleeves & Valves Owner Furnished-15170	Created entire new section for Owner Furnished	
90	Dave Pruitt	11/2018	Tapping Saddles, Sleeves & Valves Owner Furnished-15170	Removed section 2.03 text and replaced with reference to Section 15151.2.01 Small Gate Valves	We no longer use the tapping valve
91	Dave Pruitt	11/2018	Fire Hydrants (Contractor Furnished) 15180.3.02	Changed distance from pumper nozzle to curb, minimum distance 24"-36"	Previous version was 18"-24"
92	Dave Pruitt	11/2018	Fire Hydrants (Contractor Furnished) 15180.3.02	Added install hydrants on the end of dead end 8" or larger mains installations.	Must be shown on plans or as directed by the Engineer
93	Dave Pruitt	11/2018	Fire Hydrants (Owner Furnished) 15180.3.02	Added drawing 0201-0601-SD34 for pipe bollards	
94	Dave Pruitt	11/2018	Fire Hydrants (Owner Furnished) 15180.3.02	Removed reference to drawing 0201-0601-SD31	Drawing 0201-0631-SD31 is obsolete and no longer used
95	Dave Pruitt	11/2018	Fire Hydrants (Owner Furnished) 15180.3.03.C	Removed 3.03.C for paint reference	
96	Dave Pruitt	11/2018	Fire Hydrants (Owner Furnished) 15180.3.04	Added section 3.04 Paint specification	
97	Dave Pruitt	11/2018	Fire Hydrants (Contractor Furnished) 15181.2.01.B	Changed to "Open Left"	Previous version indicated "Open Left or Right"
98	Dave Pruitt	11/2018	Fire Hydrants (Contractor Furnished) 15181.2.01.B	Removed reference to threads and nozzle types	
99	Dave Pruitt	11/2018	Fire Hydrants (Contractor Furnished) 15181.2.01.C	Added paragraph "C" to explain thread and nozzle types and reference to Specification Special Conditions	
100	Dave Pruitt	11/2018	Fire Hydrants (Contractor Furnished) 15181.2.01.E	Added paragraph "E" to list "Approved manufactures.	Previous version this was listed in Paragraph "D"
101	Dave Pruitt	11/2018	Fire Hydrants (Contractor Furnished) 15181.3.02	Changed distance from pumper nozzle to curb, minimum distance 24"-36"	Previous version was 18"-24"
102	Dave Pruitt	11/2018	Fire Hydrants (Contractor Furnished) 15181.3.02	Added install hydrants on the end of dead end 8" or larger mains installations.	Must be shown on plans or as directed by the Engineer
103	Dave Pruitt	11/2018	Fire Hydrants (Contractor Furnished) 15181.3.02		

104	Dave Pruitt	11/ 2018	Fire Hydrants (Contractor Furnished) 15181.3.02	Added drawing 0201-0601-SD34 for pipe bollards	
105	Dave Pruitt	11/ 2018	Fire Hydrants (Contractor Furnished) 15181.3.02	Removed reference to drawing 0201-0601-SD31	Drawing SD31 is obsolete and no longer used
106	Dave Pruitt	11/ 2018	Fire Hydrants (Contractor Furnished) 15181.3.03.C	Removed 3.03.C for paint reference	
107	Dave Pruitt	11/ 2018	Fire Hydrants (Owner Furnished) 15181.3.04	Added section 3.04 Paint specification	
108	Dave Pruitt	11/ 2018	Abandonment of Mains and Fire Hydrants 15185.101.A	Clarified cut and cap procedures	
109	Dave Pruitt	11/ 2018	Abandonment of Mains and Fire Hydrants 15185.101.A	Changed wording to install polyethylene wrap over the new hydrant	
110	Dave Pruitt	11/ 2018	Abandonment of Mains and Fire Hydrants 15185.101.B	Removed reference to pay per unit price	
111	Dave Pruitt	11/ 2018	Air Release, Blow- Off Outlets and Related Components (Contractor Furnished) 15191	Extensive modifications to entire section	Multiple changes
112	Dave Pruitt	11/ 2018	Service Lines (Contractor Furnished) 15200.2.02	Added new manufacture Uponor Aquapex	
113	Dave Pruitt	11/ 2018	Service Lines (Contractor Furnished) 15200.2.03	Added reference to the Specifications Special Conditions	Service line material can vary by district
114	Dave Pruitt	11/ 2018	Service Lines (Contractor Furnished) 15200.2.05	Added A.B.S. plastic valve boxes	Cast iron and ABS plastic allowed
115	Dave Pruitt	11/ 2018	Service Lines (Contractor Furnished) 15200.2.05	Revised curb box adjustability range from 18"-66" to 32"-48"	
116	Dave Pruitt	11/ 2018	Service Lines (Contractor Furnished) 15200.2.06	Added reference to the Specifications Special Conditions	Service line material can vary by district
117	Dave Pruitt	11/ 2018	Service Lines (Contractor Furnished) 15200.2.06	Added model numbers for service saddles for Mueller and AY McDonald	Saddles to be used on 3/4"-2" services on DI and C-900
118	Dave Pruitt	11/ 2018	Service Lines (Contractor Furnished) 15200.3.01	Added Engineer approval required for direct tapping	
119	Dave Pruitt	11/ 2018	Service Lines (Contractor Furnished) 15200.3.02	Added Tracer wire may be required	
120	Dave Pruitt	11/ 2018	Service Lines (Owner Furnished) 15205.3.01	Added Engineer approval required for direct tapping	
121	Dave Pruitt	11/ 2018	Service Lines (Owner Furnished) 15205.3.02	Removed marking tape installation on service lines	