



**SPECIAL PROVISIONS
FOR
WATER MAIN MATERIALS**

**Black Hawk County
BRM-CHBP-8155(770)--NB-07
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**Effective Date
September 21, 2021**

THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

THE FOLLOWING IS SUPPLEMENTAL INFORMATION FOR SECTION 4150 of the Standard Specifications.

4150.02.A.2.a - MINIMUM THICKNESS CLASS

Add: 3) Above grade or suspended from structures: Class 53 unless otherwise indicated or specified.

4150.02.A.2.d – Joint Type

Delete: Use push-on type, except as otherwise required in the contract documents or as authorized by the Engineer.

Add: Use push-on type restrained joints, except as authorized by the Engineer.

4150.02.A - DUCTILE IRON PIPE

Add: f. Acceptable Manufacturer's: American, Clow, McWane, U.S. Pipe, and Griffin

4150.02.C.1.b – Joint Type

Delete: 1) For pipe sizes 16 inches and less, use mechanical joint complying with AWWA C 111

Add: 1) For pipe sizes 16 inches and less, use restrained mechanical joint system. Provide follower gland using breakaway torque bolts to engage thrust restraint.

- a) Minimum pressure rating same as connecting pipe. For fittings between dissimilar pipes, the minimum pressure rating is the lesser of the two pipes
- b) Suitable for buried service
- c) Joint restraint system to be field installable, field removable, and re-installable

4150.02.C.1 – DIP and PVC Pipe

Add: f. Acceptable Manufacturer's: Clow, Tyler Union, U.S. Pipe, or Sigma

4150.02.C.3 – Pipe Coupling

Add: e. Acceptable Manufacturer's:

- 1) Standard Solid Black Sleeve: Tyler Union 5-1442, Griffin

- 2) Bolted Straight Coupling with Stainless Steel Nuts and Bolts: Smith-Blair 442 or Romac Style 501
- Add f. Coating: Shop Coat/Epoxy

4150.02.C – Fittings

Add: 4. Mechanical Joint Restraint Device:

- a. Nuts and bolts: NSS Cor – Blue
- b. Acceptable Models: EBAA Iron Sales, Inc. – 1100 series for ductile iron, or Star Grip 3000 for ductile iron.

4150.02.E.1 – Polyethylene Wrap.

Add: c. Color: Blue

4150.02.E.2 – Tracer System

Delete: d. Splice Kit

Add: d. Tracer Wire Connector: Twister DB Plus Wire Connector

Delete: e. Tracer Wire Station

Add: e. Tracer Wire Terminal Box: Bingham & Taylor P200NFG Telescoping 12 inch Top by 12 inch Bottom, Blue Lid (Water), 2-Terminal.

4150.02.F – Special Gaskets

Add: 4. Use nitrile gaskets for all buried pipe.

4150.02.G.2 – Materials

Delete: c. PVC Pipe

Delete: d. Brass Pipe

Delete: e. Polyethylene Pipe

Add: c. All other materials must be reviewed and approved by the City of Waterloo Plumbing Board and the Waterloo Water Works.

4150.02.G.3 – Corporations, Stops, and Stop Boxes

Add: a. Service Saddles (Required on all Ductile Iron (1 1/4 inch to 2 inch only): AY McDonald 3845 or Smith-Blair 325397 single flat stainless steel strap, studs, washers, nuts with bronze body, or fusion bonded flexi-coat epoxy coated ductile iron body.

Add: b. Corporation Valves (AWWA C800 Compression Type): AY McDonald or Mueller ball style rated for minimum 300 psig water pressure.

Add: c. Ball Curb Valves (AWWA C800 Compression Type): AY McDonald or Mueller ball style rated for minimum 300 psig water pressure.

Add: d. Curb Box Arch Pattern (AWWA C800) with stainless steel rod and cotter pin: AY McDonald 5601, 5603 with 5660SS – 5 foot 0 inch stainless shut off rod.

4150.03.B – Gate Valves

Delete: 3. External Bolts and Hex Nuts:

Add: 3. External Bolts and Hex Nuts: NSS Cor-Blue

Add: 4. Acceptable Manufacturer's: Clow F-2640, Kennedy 8571 SS, Mueller Resilient Seat – A-2360-20, U.S. Pipe, East Jordan, or American Flow Control.

4150.03.D.1 – Tapping Valve

Add: a. External Bolts and Nuts: NSS Cor-Blue

Add: b. Acceptable Manufacturer's: Full Bodied Clow F-2640, Mueller T-2360-16, Kennedy 8950 SS, U.S. Pipe A-USPO-16, East Jordan, or American Flow Control

4150.03.D.2 – Sleeve

Add: f. Acceptable Manufacturer's: Smith-Blair 662, 663, or 664, Ford FAST, Mueller H304, Romac SST, or JCM 432

4150.03.B Manufacturer's:

Add: Clow F-2545 Medallion, Mueller Super Centurion 250, Waterous Pacer WB-67-250

4150.04.C.6 – Items to Be Specified

Add: a. Operating Nut: Pentagon Operating Nut

Add: b. Pumper Nozzle: 4 1/2 inch

Add: c. Nozzle Threads: NST

Add: d. Main Valve Nominal Opening Size: 5 1/4 inch

Add: e. Shoe: 6 inch MJ

Add: f. Hose and Pumper nozzles to be supplied without chains

4150.04.D – Painting

Delete: 2.

Add: 2. Paint: Factory applied epoxy

Add: 3. Color: Safety Blue

4150.05.B.2 – Manufacturer

Add: Tyler – Series 6860, Range 63 inches to 83 inches

4150.05 – Appurtenances

Add: D. Stainless Steel Repair Clamps

Add: 1. Nuts and Bolts: Stainless Steel

Add: 2. Acceptable Manufacturer's: Smith-Blair 261, Ford FS1, Romac SS1