

<b>ROCHESTER PUBLIC WORKS DEPARTMENT</b>	<b>TRANSMITTAL LETTER NO.:</b> (18-01)
<b>STANDARD SPECIFICATIONS BOOK</b>	<b>DATED:</b> March 23, 2018
<b>SUBJECT:</b> S100, C150, T100, C700, Engineering Standards, Detail Plate – Index, 1-01, 1-02, 1-03, 1-04, 1-07, 1-11, 1-12, 1-13, 1-16, 2-01, 2-13, 2-14, 2-16, 5-01, 5-02, 5-03, 6-04, 6-18, 6-19, 7-01, 7-02, 7-03, 7-04	

The Standards for Street and Utility Construction have been updated and are reinstated in their entirety at the City’s web site for the Department of Public Works, Specifications and Standards section by selecting at the following address:

<http://www.rochestermn.gov/departments/public-works/specifications-standards>

**INSTRUCTIONS:**

1. Remove from the Standard Specifications Book

Sewer Specifications – 3-6, 9,10  
Service Connection Specifications – 3,4  
Trench Backfill & Surface Restoration Specifications – 5-16  
Sidewalk Specifications – 1,2, 5,6  
Engineering Standards – entire section  
Detail Plates, – Index, 1-01, 1-02a, 1-02b, 1-03, 1-04a, 1-04b, 1-07a, 1-07b, 1-11, 1-12a, 1-12b, 1-13a, 1-13b, 1-16, 2-01, 2-13a, 2-13b, 2-14a, 2-14b, 2-14c, 5-01, 5-02, 6-04, 7-01b, 7-02a, 7-02b, 7-02c, 7-02d, 7-02e, 7-02f, 7-03a, 7-03b, 7-04, 7-10a, 7-10b, 7-10c, 7-10d

2. Insert into the Standard Specifications Book

Sewer Specifications – 3-6, 9,10  
Service Connection Specifications – 3,4  
Trench Backfill & Surface Restoration Specifications – 5-16  
Sidewalk Specifications – 1,2, 5,6  
Engineering Standards – entire section  
Detail Plates, – Index, 1-01, 1-02a, 1-02b, 1-03,1-04a, 1-04b, 1-07a, 1-07b, 1-11, 1-12a, 1-12b, 1-13a, 1-13b, 1-16, 2-01, 2-13, 2-14a, 2-14b, 2-14c, 2-16, 5-01a, 5-01b, 5-01c, 5-02, 5-03a, 5-03b, 5-03c, 5-03d, 6-04, 6-18, 6-19, 7-01b, 7-02a, 7-02b, 7-02c, 7-02d, 7-02e, 7-02f, 7-03a, 7-03b, 7-04

If you have any questions please contact Russ Kelm (507) 328-2417 or [rkelm@rochestermn.gov](mailto:rkelm@rochestermn.gov)



## **SPECIFICATION CHANGES MADE:**

### **Sewer Specification**

#### **Revise S100.204 Reinforced Concrete Pipe and Fittings**

2. Tie all joints on Centerline Culverts, slopes greater than 10 %, and pipes terminating as an outfall.

#### **Revise S100.210.6 Precast Concrete Manhole and Catch Basin Sections**

6. Where called for, protective coatings for drainage structures, **A protective coating shall be applied by a Licensed or Certified, Coating Contractor to protect all mortared joints around pipe and concrete adjusting rings with 4" overlap on precast. The coating shall conform to the requirements of ASTM D 412. The final liner material shall be made no less than 170 mils thick (brushed) or 80 mils thick (sprayed). Standard 2x3 Catch basins up to 6 ft deep shall be fully lined. Catch basin/Manholes shall be lined from the casting through the precast top slab.**

#### **Revise S100.304 Access to Utilities**

For **new** utilities located in the pavement surface, the access shall not be raised until the final pavement surface is applied and then set **either ½ inch below the flexible pavement or flush with the rigid pavement**

### **Watermain Specification**

#### **Revise**

### **Service Connection Specification**

#### **Revise C150.203 Sanitary Sewer Service Material**

1. Sewer Service Pipe shall conform to the following:
  - (a) Polyvinyl Chloride (PVC) Schedule 40 conforming to ASTM D 1785 (~~for use at building line only~~).
  - ~~(b) Polyvinyl Chloride (PVC) SDR 26 conforming to ASTM D 2241 (not permitted within 1 foot of footing).~~
  - (c) Polyvinyl Chloride (PVC) SDR 35 or SDR 26 conforming to ASTM D 3034 (not permitted within 1 foot of footing **or within 10 feet of the water**).
2. Joints **(more than 10 feet of the water) shall** be gasketed and shall be watertight.

### **Trench Excavation Specification**

#### **Revise T100.302 Establishing Line and Grade**

**In areas where direct conflicts arise between the alignment of sanitary or storm sewer, with watermain (either less than 10 ft horizontally and/or 1.5 ft vertically between the outer surfaces of the pipes) the following conditions must be met. The sewer shall be constructed of materials and with joints that are equivalent to watermain standards of construction and is pressure tested to assure water tightness prior to backfilling. The Contractor shall follow the requirements shown on the detail plate for the alignment of watermain at sanitary or storm sewer as an incidental expense of the sewer.**

#### **Revise T100.310 Jacking/Boring**

Deviation from the pipe grade, as provided by the Engineer, in excess of five tenths of a percent (0.05%) may be

## **Sidewalk Specification**

### **Revise C700.201 Concrete**

6. For Exposed Aggregate concrete use Mix No. 3F527EX with a coarse aggregate Class C, matching in kind around the city, similar to Winona pit number 85201.

### **Revise C700.304 Tree Roots**

**The Aggregate base in this area shall conform to the requirements of ASTM 67.**

## **Engineering Standards Specification**

### **Revise 1002.5 Vertical and Longitudinal Controls**

2% maximum longitudinal grade through intersections **to within 25' of assumed stop condition or the right of way line extended whichever is greater. Intersection cross-slope crown rollover shall be 3% maximum.**

### **Revise 1002.6 Geotechnical Report**

City Owner contracts, shall include a Geotechnical Report prepared and signed by a geotechnical professional. **On City led projects, a condensed version may be accepted at the discretion of the Engineer.**

### **Revise 1002.11 Location of Utilities**

**A plumbing permit is required for any utility manhole structure located within 10 feet of a building.**

### **Revise 1005.3 Pipe Material**

**At the direction of the Engineer, special circumstances may allow** storm sewers in other areas to be constructed of:

### **Revise 1005.4 Manhole and Catch Basin Structures**

~~All mortared joints in structures located in the Central Business District and as parts of drainage systems within hilly areas, and other specified areas subject to high concentrations of corrosive materials (i.e. road salts) shall be lined with a protective coating, by a Licensed or Certified Contractor performing the special work.~~

### **Revise 1006.2 Pipe Material**

A. Sewer Service Pipe shall conform to the following:

- ~~1. Polyvinyl Chloride (PVC) Schedule 40 conforming to ASTM D 1785 (for use at building line only).~~
2. Polyvinyl Chloride (PVC) SDR 26 conforming to ASTM D 2241 (not permitted within 1 foot of footing **or more than 10 feet from the property line**).
3. Polyvinyl Chloride (PVC) SDR 35 or SDR 26 conforming to ASTM D 3034 (not permitted within 1 foot of footing **or within 10 feet of the water**).

**DETAIL PLATE CHANGES MADE-2018:**

- 1-01a**      *Changed note 8*
- 1-02a**      *Changed note 10, changed note 2*
- 1-02b**      *Changed note 2*
- 1-03a**      *Changed note 2*
- 1-04a**      *Removed storm sewer coating note, changed note 3*
- 1-04b**      *Changed revision letter*
- 1-07a**      *Deleted old note 5, changed note 4, changed new note 5, added note 6*
- 1-07b**      *Changed revision letter*
- 1-11a**      *Changed Neenah ref. number on casting type 5*
- 1-12a**      *Changed revision number*
- 1-12b**      *Changed type 5 dimensions*
- 1-13a**      *Changed revision letter*
- 1-13b**      *Added sloped ring, added note 2*
- 1-16a**      *Added section drawings, renumbered notes*
- 2-01a**      *Removed note number 6*
- 2-13a**      *Plate deleted*
- 2-13b**      *Moved truncated domes back from curb, changed note 2, changed note 6, renumbered 1 of 1, Renamed plate*
- 2-14a**      *Remove column B in chart, changed notes 5 & 8*
- 2-14b**      *Changed Tie-Bar note, added polyethylene note*
- 2-14c**      *Changed revision letter*
- 2-16a**      *New plate*
- 5-01a**      *New plate*
- 5-01b**      *New plate*
- 5-01c**      *New plate*
- 5-02a**      *New plate*
- 5-03a**      *Renumbered from 7-10a, and Park Dept. signatures added*
- 5-03b**      *Renumbered from 7-10b, and Park Dept. signatures added*
- 5-03c**      *Renumbered from 7-10c, and Park Dept. signatures added*
- 5-03d**      *Renumbered from 7-10d, and Park Dept. signatures added*
- 6-04a**      *Changed Restrained Bend note*
- 6-18a**      *Renumbered from 5-01*
- 6-19a**      *Renumbered from 5-02, changed note 4, deleted note 3, renumbered note 4*
- 7-01a**      *Changed revision letter*
- 7-01b**      *Minor drawing changes, reversed optional method drawing*
- 7-01c**      *Changed revision letter*
- 7-02a**      *Changed revision letter*
- 7-02b**      *Changed revision letter*
- 7-02c**      *Changed revision letter*
- 7-02d**      *Changed revision letter*
- 7-02e**      *Changed to match MnDOT Standard Plan 5-297.405, added Post Connection detail*
- 7-02f**      *Minor drawing changes*
- 7-03a**      *Moved formula to note 2*
- 7-03b**      *Changed wording in note 3*
- 7-04a**      *Added note to Blanket Method detail*