

## SUMMARY OF PUBLIC WORK STANDARD SPECIFICATION REVISIONS – 2010

### 102.10 MINIMUM RATE OF WAGE SCALE

Added language about the requirement for contractors to send payroll reports to the State DWD.

### 102.12 BEST VALUE CONTRACTING

This section was previously included as a special provision in all public works contracts. This section will remain in special provisions with the adjusted contract amounts at which BVC is required.

### 103.4 FAILURE TO EXECUTE CONTRACT

Deleted language inconsistent with MGO regarding submission date of Affirmative Action Plan.

### 107.9 BARRICADES, WARNING SIGNS AND FLAGGING

Added bid items for Portable Arrow Board and Portable Changable Message Boards

### 107.13 TREE PROTECTION SPECIFICATIONS

Added language to increase awareness for protection of trees in construction. Revised excavation limits around trees. Added fines for damage to trees. References to this section were added throughout the specifications.

### 201 EXCAVATION

Revise language concerning grading of terraces around trees to protect root structure.

Clarified that concrete pavement volume is included in excavation cut quantity when present.

### 202 FILL

Moved description of Crushed Aggregate (Gradation #4, 9' Maximum size) and Crushed Aggregate (Gradation #5, Breaker Run) from Part 4 to Part 2.

### 205.2 Adjustment of Castings

Adjustment blocks, bricking and or rings on sewer access structures shall be in completed accordance with Standard Detail Plate 5.7.15 not 5.0.7.

### 207.3 CONSTRUCTION MEHODS

#### 207.3(f) Soil Stabilizers

Where soil stabilizers are to be used in the terrace or near any other pedestrian walk areas the sidewalk and/ or pedestrian walk areas shall be protected to keep the soil stabilizers from being deposited on them. After getting wet, any soil stabilizers on these surfaces can result in a slipping hazard. If soil stabilizers are deposited on a sidewalk the contractor shall clean the sidewalk sufficiently to remove the soil stabilizers. The Contractor shall be aware that conventional methods (sweeping) will not be sufficient to remove the polymer

due to the nature of the polymer and other methods (vacuum) will be required to meet this requirement.

209.5(i) WATERING EQUIPMENT

This section referenced an incorrect section. This revision corrects that incorrect reference.

302.3 SPECIAL WATERWAY MEASUREMENT & PAYMENT

This section incorrectly stated curb & gutter is paid through a special waterway. Bid item Special Waterway payment includes payment of the curb & gutter.

303.2 CONCRETE SIDEWALKS

Furnish curb ramp detectable warning fields which shall be cast iron set in the concrete manufactured by Neenah Foundry (or equivalent)

401 CRUSHED AGGREGATE BASE COURSE

Clarified reference to WISDOT Standard Specifications. See 202 Fill.

402 ASPHALT CONSTRUCTION

Revised the freeze/thaw limit for quarried course aggregate.

403.2 RESURFACING

Asphalt ramping water valve boxes is incidental to grinding.

403.3 UNDERCUT

Pulverized material may be used in undercut areas.

403.16 ADJUST VALVE CASTING

Clarified there are three methods to adjust valve castings.

403.21, 403.22 REMOVE AND REPLACE CURB AND SIDEWALK

Added language to limit excavation behind c&g, adjacent to sidewalks and driveways that are next to trees.

Clarified excavation is included in removing and replacing curb & gutter

406.3 PREPARATION OF THE CRACKS (APHALT PAVEMENT CRACK FILLING)

Minimum width was increased from 1/2 inch to 3/4 inch.

501.6 REPAIRS AND REPLACEMENT

All sanitary sewer pipe replacement or repairs involving pipe 8" or larger to pipes 8" or larger shall include Fernco RC Strongback or equivalent repair coupling. SDD 5.3.3-Coupling details has also been revised.

502.1(c) DEWATERING

The owner listed on the WDNR Dewatering permit shall be the Contractor. The contractor will be responsible for adhering to all requirements of the dewatering permit including reporting requirements.

502.1 (f) UTILITY TRENCH PATCHES

The pavement along the patch shall be sawcut, full depth, and incidental to the trench patch. The edges of the existing asphaltic pavement shall be free of loose stones or pavement material.

509 CURED-IN-PLACE PIPE (CIPP) REHABILITATION OF SANITARY SEWER

509.3 SUBMITTALS

Wet out reports are now required from contractor to evaluate resin content.

509.5 MATERIALS

Standard specifications now allow Glass Reinforced Plastic (GRP) Cured-In-Place Pipe.

509.6(c) INSTALLATION

During curing, Styrene levels will be monitored by City Staff. At the direction of the City Constructor Inspector, steam condensate or residue shall be disposed of by the contractor.

509.7 CCTV INSPECTION AND ACCEPTANCE

Repair methods for specific minor defects are now specified. One of the notable repairs requires the contractor to install "Top Hat" lateral connections for overcutting of the liner at lateral wyes at the contractor's expense.

602.2 ELECTRICAL CONDUCTORS

This specification includes all size conductors. Old spec only referred to #4 conductors.

606 INSTALLATION OF METERED OR UNMETERED ELECTRIC SERVICE

Added metered services to this specification.

**Part VII Water Mains and Service Laterals.**

1. Material specification for approved valve box alignment devices.
2. Solid sleeve repairs are to be prioritized over repair sleeve installations.
3. Specifying approved high-density polyethylene pipe material for horizontal drilling installations.

4. Contractor is required to comply with OSHA excavation standards and expand submittal requirements for tunneling/jacking installations.
5. Require a minimum 12-inch undercut excavation and backfill in unsuitable soils to form an acceptable foundation for the pipe installation.
6. Contractor is required to comply with OSHA sheeting and bracing standards.
7. Commercial water users are to receive 48-hour notice prior to any planned water service interruption.
8. Polyethylene encasement shall be installed per city and manufacturer's specifications.
9. Require approved bedding materials for pipe and service installations.
10. Install valve boxes with an approved alignment device (see note 1).
11. Fill at the base of hydrants is required to be 1-inch washed stone.
12. Specifications for installing pipe casings.
13. Specifications for horizontal directional drill installations.
14. Requiring Engineer's approval for expanding fill layer thickness.
15. Require approved bedding materials for service lateral installations.
16. Broken insulation will not be considered for payment.
17. Mechanical joint caps may be installed in the end of abandoned pipes.
18. Clarifying and separating bid items for additional excavation and undercut.
19. Curb box materials are considered incidental to service installations.
20. Curb box materials are considered incidental to lead service replacements.
21. Broken insulation will not be considered for payment.
22. Mechanical joint caps may be installed in the end of abandoned pipes.
23. Water valve access structures are to be constructed in compliance with revised Standard Detail Drawing 7.07.
24. Additional fitting payment rates have been revised.
25. Electronic marker balls are to be used to locate water main features.
26. Measurement and payment specifications for horizontal directional drilling.
27. Revised Standard Detail Drawings.
28. New bid items for horizontal directional drilling, additional excavation, and undercut.

## DETAIL DRAWINGS

### 3.06 MADISON STANDARD CONCRETE CURB AND GUTTER

Added a typical section for a traffic circle.

### 3.13 MOUNTABLE MEDIAN ISLAND NOSE DETAIL

Clarified some of the details.

### 3.14 Bike Ramp Curb Ramp Detail

Clarified where truncated domes are required

### 5.3.3 COUPLING DETAILS

All sanitary sewer pipe replacement or repairs involving 8" or larger to pipes shall include Fernco RC Strongback or equivalent repair coupling.

### 5.4.6 CONCRETE PIPE JOINT TIES

The current detail drawing 5.4.6, allows for one installation option where the bolts for the joint ties are installed on the inside of the pipe. Field staff has indicated that these bolt ends are causing some obstructions in the pipe and collecting material. The detail drawing will be revised to require either that the bolts be connected on the outside of the pipe or that the excess bolt be cut off such that the joint tie in the interior of the pipe provides a relatively smooth surface.

### 5.5.1 BOX CULVERT WINGWALL

Will correct a math error in the steel reinforcement schedule.

### 5.7.2 & 5.7.30 SANITARY SEWER PRECAST SAS & INSIDE DROP FOR SANITARY LATERAL

Sewer pipe will be stubbed into SAS with the top half cut off so TV cameras and cleaning devices can access the main easier.

### 6.37 PAVEMENT MARKING DETAILS

Added a detail for dotted lines.

### 6.38 PAVEMENT MARKING DETAILS

Added detail for continental x-walk and stop lines. Deleted detail for yellow markings around cross walk detectable warning fields. Warning fields have a distinct color instead.

### 6.40 PAVEMENT MARKING DETAILS

Revised details for bike lanes.

### 7.04 TYPICAL HYDRANT INSTALLATION

7.07 WATER MAIN VALVE ACCESS STRUCTURE

BID ITEMS

New Bid Items

|       |                                                                                   |      |      |
|-------|-----------------------------------------------------------------------------------|------|------|
| 10720 | Traffic Control Sign – Portable Arrow Board                                       | Days |      |
| 10721 | Traffic Control Sign – Portable Changeable Message                                | Days |      |
| 10801 | Root Cutting – Curb & Gutter                                                      | LF   |      |
| 10802 | Root Cutting – Sidewalk                                                           | LF   |      |
| 21018 | Silt Sock                                                                         | L.F. |      |
| 60238 | Furnish & Install 1 1/4 Inch PVC (Schedule 80) Conduit                            |      | L.F. |
| 60241 | Gopher Raceway for Electrical Conduit or Cable-In-Duct                            |      | L.F. |
| 60251 | Furnish & Install 6 #4 and 2 #8 Wires in Existing or Contractor-Installed Conduit |      | L.F. |
| 60252 | Furnish & Install 5 #4 and 2 #8 Wires in Existing or Contractor-Installed Conduit |      | L.F. |
| 60253 | Furnish & Install 3 #4 and 1 #8 Wires in Existing or Contractor-Installed Conduit |      | L.F. |
| 60254 | Furnish & Install 2 #4 and 1 #8 Wires in Existing or Contractor-Installed Conduit |      | L.F. |
| 60602 | Install Metered Electric Service                                                  |      | EACH |
| 70020 | Horizontal Directional Drill 8 Inch Pipe                                          |      | L.F. |
| 70021 | Horizontal Directional Drill 10 Inch Pipe                                         |      | L.F. |
| 70022 | Horizontal Directional Drill 12 Inch Pipe                                         | L.F. |      |
| 70023 | Horizontal Directional Drill 16 Inch Pipe                                         | L.F. |      |
| 70024 | Horizontal Directional Drill 20 Inch Pipe                                         | L.F. |      |
| 70025 | Horizontal Directional Drill 24 Inch Pipe                                         | L.F. |      |
| 70409 | Undercut                                                                          | CY   |      |
| 70403 | Additional Excavation                                                             | CY   |      |