

## **SUMMARY OF PUBLIC WORK STANDARD SPECIFICATION REVISIONS – 2018**

### **STANDARD SPECIFICATIONS**

#### Article 101 Definitions

Added definition of Particulate Matter for reference in section 107.6 Dustproofing.

#### 102.4 Proposals

Updated to specify bids can be submitted electronically on line (Bid Express), by hand or mail.

#### 102.10 Prevailing Wage

Deleted this section as this does not apply to most PW projects. Prevailing wages will be included in special provisions if needed.

#### 102.11 Affirmative Action

Included language on submission of Monthly Employment Utilization Reports and Committed Cost Status Reports.

#### 102.12 Best Value Contracting

Revised for clarity.

#### 104.5 Increased Items

Contract increases shall be limited to 15% of the original contract unless approved by the City Engineer.

#### 105.7 Contract Documents

The City will make electronic files available to the contractor vs. printing documents for the contractor.

#### 107.1 Public Convenience and Safety

Specify that sidewalk closed signs shall be placed at the nearest cross walk in advance of closure.

#### 107.4(i) Insurance for the Construction of Buildings and Structures

This section was revised to include new and existing facilities, including renovation.

#### 107.6 Dustproofing

Added language to mirror the new Ordinance language on control of particulate matter.

#### 107.7 Maintenance of Traffic

Added language often found in special provisions. Clarified message boards, arrow boards, tubular markers and temporary tape pavement markings are paid for separately.

#### 108.2 Permits and Licensing

Added language about Erosion Control permit and refers to new section 210.6.

#### 110.2 Partial Payments

Added wording that demographic information is needed at 25% payment or second payment, whichever comes first. Added paragraph on payment to satisfy State Statutes.

#### 110.5 Acceptance and Final Payment

Removed reference to State Statute and prevailing wage. Added language requiring demographic information and committed cost status report.

201.1 Excavation

Defined rock excavation include: drilling and blasting; hydraulic breaker; ripper; grinding (trencher). This matches rock excavation in Part V.

201.3, 201.4 Underdrain

Corrected references to WISDOT specifications.

203.2, 205.2, 212.3, 302.3, 503.2f, 503.4b

Reference to 1600 Emil St vs. 1602 Emil St were corrected. Deleted slurry type B.

207.3(a) Seeding – Turf/Native.

Edited rate of seed for No Mow Turf from 5 lbs. per acre to 5 lbs. per 1000 s.f.

207.3(b) Cover Crops and Temporary Seeding.

Edited rate for cover crop for Seed Oats and Winter Wheat cover.

207.3(d) Remove asphaltic product use in mulch.

210.6 Erosion Control Implementation and Enforcement

Adds authority to City's enforcement of Erosion Control measurements.

211 Terrace Rain Garden

Added language to delete requirement for hand poured section of curb. Included a curb cut and 2'x2' concrete flume in the detail.

212.3 Placing Grouted Rip Rap

Typo. Corrected a reference to another section of the specifications.

301 Concrete

Revised to match sections of WISDOT

301.9 Slurry

Deleted the Type B slurry.

302.2d Curb & Gutter Joints

Curb and gutter placed adjacent to concrete pavement should only have expansion joints aligning with expansion joints in the concrete pavement.

303.2b Sidewalk Forms

Added seven (7) inches to the requirement for height of forms.

303.2n Curb Ramp Detectable Warning Fields

Added Tuftile as approved product.

303.2(o) Tree Grates

Note that Tree Grates are a Standard Detail 3.15.

303.3a Method of Measurement

Added reinforcing steel is included in price for tree grate.

402.1 Materials for Asphalt Construction

Revised mix types for HMA to follow those of the DOT. E-mixes are no longer referenced.

402.3 Asphalt Pavement

Revised to follow DOT nomenclature for mixes. E-mixes are no longer referenced.

402.4 Asphalt Tack Coat

Moved language on placing tack coat from another section to this section.

- 402.6 Asphalt Tack Coat and Asphalt Seal Coat  
Payment for tack material used in spray patching is covered elsewhere.
- 403.1 Resurfacing General  
Revised to simplify as language in this section is included elsewhere in the specifications.
- 403.5 to 403.7 Asphalt Tack, Lower Layer and Upper Layer  
Deleted language repetitive language from DOT specifications.
- 403.8 Asphalt Base Patch  
Revised to follow DOT spec for mix design nomenclature. E-mixes are no longer referenced.
- 403.11 SAS Adjusting Ring  
Clarified ring is supplied by City of Madison.
- 403.16 Valve Box Adjustments – Resurfacing  
Revised reference to correct section in Part 7
- 403.21 & 22 Resurfacing curb & gutter and sidewalk  
Hand placed curb & gutter is paid for as machine placed unless there is a bid item in contract.  
Deleted repetitive language referenced in other sections of the specifications.
- 404.1 Concrete Pavement  
Revised to reference WISDOT in some sections.
- 404.3 Concrete Pavement Joint Sealant  
Added section for sealing concrete pavement joints.
- 404.5 Placement of Concrete Pavement  
Typo. Corrected reference to DOT specification.
- 405.3 Infrared Seamless Patching  
Revised to match WISODT HMA designations.
- 408 Pavement Chip Seal  
Removed the use of Black Boiler Slag as an approved product. Granite is and approved product.
- 409 Mill & Overlay/Patching Criteria  
Inserted long used criteria into the standard specifications.
- 502.1 Rock Excavation  
Defined rock excavation include: drilling and blasting; hydraulic breaker; grinding (trencher), ripper. This matches rock excavation in Part II.
- 502.1d Bedding of Sewer Pipe  
Corrected reference to SDD.
- 503.2b PVC and fittings  
Added requirement for a rubber gasket to match section 503.3(d).
- 503.3c Sanitary Sewer Lateral  
Clarified specification that the wye is not included in the item reconnect. The wye is included with the installation of the main. Added language for use of C900 pipe for lateral.
- 503.3(d) Sanitary Sewer Wyes  
Both long and short body wye ductile iron fittings are acceptable for PVC pressure pipe installations where there is less than 8' of horizontal separation from water main. AWWA C900 fittings are acceptable if the horizontal separation between sewer and water is over 8'.

- 503.4b Sanitary Sewer lateral  
Added payment for pressure rated sanitary sewer lateral
- 504.2f Poly (Vinyl Chloride) Pressure Pipe  
Clarified fittings for pressure pipe.
- 504.2(l) Joint Ties  
Added language that states a RCP section of pipe must be used to connect to RCP Apron Endwall when TYPE II plastic pipe is specified. Metal joint ties added back into spec.
- 504.2p CMP  
Format correction.
- 508.2 Utility Line Openings  
Revised the default prices per ULO is a bid item is not included in the contract.
- 509.7(a) CIPP Samples  
Added APS Water Tightness Test, to required samples testing, to replace Gravity Pipe Leakage Test
- 701.4 General – Warranty of Water System Installations  
Extend standard guarantee period (reference Section 105.16) to two years, against water installation leaks or breaks on newly installed mains and laterals. Extended leak guarantee does not extend overall contract guarantee of 105.16.
- 702.5 Services and Stops & Accessories  
Revise product numbers associated with some incorrectly listed brass goods. Add additional accepted manufacturers/products.
- 703.1 Construction Methods – General  
Add cautionary disclaimer for cut-in connection/pressurized main risk of blow-offs, work to be performed in accordance with DIPRA/AWWA recommendations.
- 703.12 Copper Service Laterals  
Notice/reminder of 2019 direct-tapping requirement for 1.5 and 2-in copper laterals. Saddles will remain required for 1.5 and 2-in copper connections to 6-in or smaller mains.
- 703.14 Flushing  
City will furnish up to 300-ft of flushing hose, Contractor to furnish any additional required hose length. Two-inch taps for flushing/blow-offs shall be standardized per new SDD 7.07. Listed scouring velocity requirements for flushing will not be required for dechlorination purposes.
- 703.15 Testing  
Allow pressure testing to be performed from either 2-in blow-off assembly per SDD 7.07 or service tap via corp connection, so long as the service connection remains permanent, should the Contractor elect to not test from a hydrant location.
- 704.3 Furnish & Install Pipe & Fittings  
Two-inch taps for flushing/blow-offs shall be standardized per new SDD 7.07.
- 704.4 Horizontal Directional Drill Pipe  
Add requirement to place tracer wire box at the DI/HDPE transition point with connection for grounding wire extension.
- 704.6 Furnish & Install Water Valve  
Require adjustment clearance between top of valve box and first extension to allow for future downward adjustment. Top of box must be at least 10-in above next box section.
- 704.7 Furnish and Install Hydrant / Salvage Existing Hydrants

Add requirement for ½-in expansion joint around hydrant barrel when set in concrete.

704.9 Furnish & Install Water Service Laterals

Clarify polyethylene wrap requirements at corp connections for consistency with SDD 7.10. Top of curb rod depth should not be greater than 4-ft below finished box height.

704.18 Landscape Restoration for Water Main

Convert unit of measurement to 'Trench Foot'

704.20 Adjust Water Valve Box (rename: Adjust Water Valve Box Sections)

Remove requirement to clear debris and re-center existing boxes over valve nut. Existing box will be acceptable if operable with standard valve key. Contractor must protect boxes to ensure the boxes remains free from debris during construction. Payment will be per each completed unit – one unit for adjusting existing casting, two if top section requires replacement, three if lower section requires replacement. Revise associated bid item and associated resurfacing sections.

704.27 Furnish and Install Curb Box

Top of curb rod depth should not be greater than 4-ft below finished box height.

**BID ITEMS**

Revised or New Items

40201	HMA Pavement 3 LT 58-28 S	TON
40202	HMA Pavement 4 LT 58-28 S	TON
40203	HMA Pavement 3 MT 58-28 S	TON
40204	HMA Pavement 4 MT 58-28 S	TON
40205	HMA Pavement 4 MT 58-28 H	TON
40206	HMA Pavement 3 HT 58-28 S	TON
40207	HMA Pavement 4 HT 58-28 S	TON
40208	HMA Pavement 2 HT 58-28 H	TON
40209	HMA Pavement 3 HT 58-28 H	TON
40210	HMA Pavement 4 HT 58-28 H	TON
40211	HMA Pavement 4 HT 58-28 V	TON
40218	TACK COAT	GAL.
40367	ADJUST VALVE CASTING, METHOD #1 – RESURFACING	EACH
40368	ADJUST VALVE CASTING, METHOD #2 – RESURFACING	EACH
40407	CONCRETE PAVEMENT JOINT SEALING	L.F.
50355	SANITARY SEWER LATERAL - PRESSURE PIPE	L.F.
30357	RECONNECT – PRESSURE PIPE	EACH
70102	LANDSCAPE RESTORATION FOR WATER MAIN	T.F.
70104	ADJUST WATER VALVE BOX	EACH

Deleted Items

40201	HMA PAVEMENT TYPE E-0.3	TON
40202	HMA PAVEMENT TYPE E-1	TON
40203	HMA PAVEMENT TYPE E-3	TON
40204	HMA PAVEMENT TYPE E-10	TON
40205	HMA PAVEMENT TYPE SMA	TON
40211	TACK COAT	GAL.
40212	SEAL COAT	GAL.

**DETAIL DRAWINGS**

REVISED OR NEW

2.01 Tree Planting in Turf Area

2.09 Raingarden & Bio-Retention Detail

Removed note that c&g had to be hand poured.

3.15 Tree Grate Detail  
New Detail

4.01, 02, 03 Typical Section Various Width Streets  
Revised base course and HMA pavement thickness.

4.06 Pavement Design Criteria  
Revised base course and HMA pavement thickness.

4.08 Typical Bike Path  
Topsoil depth is 6" and gravel base is 8"

SDD 5.4.6 Concrete Pipe Joint Ties  
Revised to current DOT standards.

SDD 5.7.12A Terrace Inlet Type 2  
Added language for hand forming curb and gutter.

SDD 5.7.12B Terrace Inlet Type 3  
Added language for hand forming curb and gutter.

SDD 5.7.12C Terrace Inlet Type 4  
Added language for hand forming curb and gutter.

SDD 5.7.12D Terrace Inlet Type 5  
Added language for hand forming curb and gutter.

SDD 5.7.24 R-3067-7009 Curb Box  
Title block changed from R-3067 CDS curb box to R-3067-7009 to update S.D.D. to correct Neenah casting number.

5.7.30 Inside Drop for Sanitary Main and Lateral  
Inlet pipe is encased in concrete and a 45° bend vs. 90° bend and pipe top is cut away. Added 4 - #4 rebar bars to anchor concrete collar to structure bench.

SDD 5.7.39 Screen Treatment Device  
Revised to address structural issue with the design.

SDD 5.7.39A Screen Treatment Device  
Revised to address structural issue with the design.

SDD 6.09 CONDUIT PLACEMENT DETAILS FOR COMMERCIAL DRIVE APPROACH  
Revised drawing to separate PVC sections with rebar.

SDD 6.12 LB-1 BASE DETAIL  
Revised drawing to change anchor bolt extension above base from 2 inches to 3 inches.

SDD 6.14 LB-3 BASE  
Revised drawing to state that base section, below the square formed section, may be 20 inch diameter, instead of existing wording that stated that base may be dug with 20 inch diameter auger below the squared formed top section.

SDD 6.19 LB-8 BASE  
Revised drawing to state that base section, below the square formed section, may be 26 inch diameter, instead of existing wording that stated that base may be dug with 26 inch diameter auger below the squared formed top section.

SDD 7.04 Typical Hydrant Installation

Revised to add requirement for ½-in expansion joint around hydrant barrel when set in concrete.

SDD 7.07 2-IN Temporary Flushing / Blow Off for 8-in Pipe and Smaller

(new SDD) Standardize 2-in flushing/blow-off assembly to require standard 2-4 height, rigid piping, a ball valve and 2 ½-in firehose connection.

DELETED

NONE