

2007 SPECIFICATION CHANGES SUMMARY

101 Definitions and Terms

Drip Line. An imaginary circle that could be drawn on the soil around a tree directly under the tips of its outermost branches.

NRC. An abbreviation for no root cutting that will be marked on the sidewalk, driveway, or curb that is being repaired or removed. No root cutting shall occur until reviewed by City Forester.

Root Flare. A swelling where tree roots join the trunk and are visible at the soil surface.

Street Tree. A tree located within a terrace (between the curb and sidewalk) or on public right of way.

102.1 Prequalification of Bidders

Bidders' annual prequalification period has been changed from April 1 through March 31 to February 1 through January 31. The date in which a bidder must submit an Affirmative Action Plan or Certificate of Compliance within 10 days has been changed to February 1.

106.4 Storage of Materials

Added language to stress that equipment shall not be secured to street trees.

107.2 Protection and Restoration of Property and Property Monuments

Added language to stress protection of street trees in paragraph six.

107.7 Maintenance of Traffic

The contractor shall adhere to peak hour restrictions when working in the ROW.

201 Excavation Cut

Clarify the payment of unclassified excavation. On suitable on-site fill is typically incidental to excavation cut and fill (borrow) is a typically a separate pay item.

202 Fill

Clarify the different types of fill and select fill, where they can be used and how they are to be paid for and measured.

203.2(e) Backfilling

All trenches, holes and pits resulting from the removal or abandoning and other miscellaneous structures (clarification of specifications)

203.3 Method of Measurement

Item 14: Abandon sanitary sewer pipe with slurry will be measured by the cubic yard of slurry required to completely fill the void. Payment quantity shall not exceed the calculated void area. (clarification of specifications)

203.4 Basis of Payment

The contract price for removing or abandoning pipe and other, miscellaneous structures...

(clarification of specifications)

Paragraph pertaining to Select Fill deleted. (Select fill is considered incidental)

If the contract does not include a separate item for removal or abandonment of miscellaneous pipes, the removal or abandonment of existing miscellaneous pipes shall be (clarification of specifications)

No additional compensation shall be made for removal of concrete encased sewer pipe. (clarification of specifications)

When there is no unit price for Concrete Pavement Removal in the contract, it shall be understood and agreed that the contractor shall be paid \$5.00 per square yard of concrete pavement removed. The void shall be backfilled with select fill and paid for under the appropriate bid item.

207.2 Seed Materials

Revised temporary seed mixes. Temporary seed mixes will be oats, wheat or rye depending on the time of year.

207.3 Seeding

The type of terrace seed will be specified in the field by the engineer unless otherwise specified.

207.5 Basis of Payment

“Seeding” and payment thereof shall now also include the act of ... furnishing, hauling and placing soil stabilizers. (clarification of specifications)

210.1 Description of Erosion Control

Additional types of erosion control measures added.

210.3 Construction Methods (Erosion Control)

Clarification on type and rate of seeding shall be per section 207. Clarification of erosion control requirements.

210.4 Method of Measurement

Clarify measurement of inlet protection measurement.

210.5 Basis of Payment

Clarification of specification and payment for erosion control measures

301.1 General

Item Number 4 pertaining to fly ash has been deleted.

301.5 Placing and Finishing

Concreting operations may not be resumed until an ascending air temperature in the shade and away from artificial heat reaches 32 degrees Fahrenheit. (clarification of specifications)

301 Concrete Curb and Gutter

Added typical language for cold weather protection.

302.2(h) Special Waterway

New item.

302.3 Measurement and Payment

Item 302.3(a) Method of Measurement added for Special Waterway.

302.3(b) Basis of Payment

New paragraph added to address payment of Special Waterways.

302 Concrete Sidewalks, Concrete Driveways, Concrete Traffic Islands and Steps of Concrete Masonry

Added typical language for cold weather protection.

303.2(d) Joints

Added language to clarify caulking of joints for exposed aggregate concrete sidewalk (clarification of specifications)

303.2(n) Curb Ramp Detectable Warning

Materials: "Paint color shall be safety yellow or approved equal."

Construction: New requirement. Curb ramp detectable warning field shall be painted within ten (10) working days of being placed.

303.3 (h) Basis of Payment

Concrete under detectable warning field shall be paid for separately under appropriate bid item...ie concrete under detectable warning field shall not be considered incidental to warning field.

305 – Sidewalk Replacement Program

New article. Language is regularly included in special provisions of Sidewalk Ordered Replacement and Request Contracts

401.1 Crushed Aggregate Base Course

Changed the 1.5" spec to 1.25"

401.3 Measurement and Payment

Truck drivers are required to provide the first seven digits of drivers license.

402.3 Asphalt Pavement

Approved commercial mixes are approved in driveways and terraces.

Asphalt yields were changed from 120#/in./sy (min) & 128#/in./sy (max) to 115# and 120# respectively.

402.6 Measurement and payment

Truck drivers are required to provide the first seven digits of drivers license.

Article 403 – Resurfacing

403.1 General

Section edited for clarification.

403.8 – Asphalt Base Patching

Clarified temperature in which base patching can be completed. Minimum air temperature is 32 degrees.

403.16 Adjust Valve Casting, Method #1 – Resurfacing, Adjust Valve Casting

403.16(a) Method #1 – Section edited for clarification.

404.1 General

Adds a reference to Part III of the City of Madison Standard Specifications.

404.4 Concrete Speed Hump

New section

404.5 Concrete Pavement Reconstruction

Moved from section 404.4 to 404.5

404.5 (c), (d)

Revised unit of measurement to correspond with bid item unit (correct unit should be square yard)

502.1(c) Trench Excavation, Bedding and Backfill

Revised dewatering practice selection matrix

502.1(f) Utility Trench Patches

Additional language added to last paragraph to better define when pavement had to be restored. Arterials and collectors restored the same day, local streets within 3 days.

Clarified temperature in which base patching can be completed. Minimum air temperature is 32 degrees.

503.2 (e) Sanitary Sewer Electronic Markers

Effective Dec. 31, 2006, Act 425, Chapter 182.0715(2r) of the Wisconsin State Statutes requires that all non-metallic building sewers (including sanitary laterals, private sanitary sewers and storm sewer laterals) installed within the City Right of Way, shall be accompanied by a means of locating the newly installed underground pipe. Sewer mains that have manhole or inlet structures on both ends within the City Right of Way are considered exempt from this legislation.

The City of Madison has selected a marker system that includes the installation of extended range ball markers over the sanitary sewer facilities, which after construction provide a signal that can be located by the city's utility locator after construction is complete.

The 3M ScotchMark Electronic Ball Marker System Full-Range Marker (model #1404-XR) http://solutions.3m.com/wps/portal/3M/en_US/Telecom/Home/Solutions/Utilities shall be considered an acceptable marker device for this specification. If an alternate equivalent marker is selected, contractor shall provide specifications and data sheets of the selected device to City Engineering prior construction in order for the City to confirm that the proposed marker device is compatible with the City's marking equipment.

Each sanitary lateral shall have a minimum of 2 electronic markers: one shall be located above the wye on the sewer main and one shall be located above the lateral at the property line. Additional markers shall be placed at each change in horizontal direction. Markers shall be installed per manufacturer's written instruction.

The City shall provide the Contractor with the required number of electronic markers for City bid public works contracts. The Contractor shall be responsible for picking up the markers at the Engineering Service Building, 1602 Emil Street in Madison, Wisconsin.

Upon completion, the City will test each electronic marker to confirm that it is installed and functioning properly. If it is determined that the marker has not been installed correctly and/or is not functioning properly, the contractor will be responsible for the all work associated with the installation of a properly functioning marker.

Sanitary Lateral Electronic Markers shall be measured by each properly installed and functioning marker. No additional compensation will be provided for additional markers installed at the same location. The contract price shall be full payment for all work, materials (except electronic markers supplied by the City of Madison) and incidentals required to complete the work in accordance with the description. The Contractor shall be responsible for picking up the markers at the Engineering Service Building, 1602 Emil Street in Madison, Wisconsin.

503.2 (f) Sanitary Sewer Force Main Tracer Wire and Box.

Effective Dec. 31, 2006, Act 425, Chapter 182.0715(2r) of the Wisconsin State Statutes requires that all non-metallic building sewers (including sanitary laterals, private sanitary sewers and storm sewer laterals) installed within the City Right of Way, shall be

accompanied by a means of locating the newly installed underground pipe. All new force mains (pressure sewer systems) shall be accompanied by tracer wire location system.

The conductor shall be a minimum of 12 gauge solid copper wires with a plastic coating to prevent corrosion. The conductor itself will be one continuous loop with the two wire ends shall be connected to the tracer wire access box.

The covered access device (tracer wire access box) may be a terminal box, valve box, a small diameter PVC conduit or a cleanout. Within the covered access device, the contractor shall provide an extra 18 inches of wire. The lid of the covered access device shall have "SEWER" permanently engraved on it by the manufacturer. The lids shall be cast iron accompanied with connection holes where the contractor shall connect the tracer wire with stainless steel terminal bolts. The lid shall be bolted with a standard pentagonal head key.

The Valco Tracer Wire Access Box <http://www.cptest.com> and the Bingham & Taylor Cathodic Test Box <http://www.binghamandtaylor.com/cathodic.htm> are considered acceptable devices for this specification.

503.3(c) Sanitary Sewer Laterals

Item Number 1, General: Section edited for clarification. Last paragraph with reference to contractor marking top of the curb has been deleted.

Add language for installation of electronic markers for locating.

503.3(d) Sanitary Sewer Wyes

Saddle wyes require a rubber gasket.

503.3(e) Sanitary Sewer Risers

Clarified difference between riser and standard lateral.

503.3 (h) Sanitary Sewer Force Main Tracer Wire and Box

A pipe locator conductor (tracer wire) shall be installed on all new sanitary sewer force mains (pressure sewer mains). The conductor shall be placed along the top of the sanitary force main taped to the pipe at minimum 10-ft. intervals. Wrapping tracer wire around the pipe is prohibited. Below grade splices are prohibited.

The Tracer wire shall be brought to the surface at the property line or at a location directed by the Engineer within a covered access device (tracer wire access box).

Each tracer wire shall be field tested after installation is complete.

503.4 Measurement and Payment

503.4(a) Sanitary Sewer Pipes

Reference to wyes deleted in second paragraph.

Second paragraph, delete the words “except wyes” to have first sentence read: “The contract price shall include furnishing all materials including wyes necessary to perform the work...”

503.4(b) Sanitary Sewer Laterals

Reconnect doesn't include the wye. The wye is included in the price of the main.

Add language for installation of electronic markers for locating.

503.4(c) Sanitary Sewer Wyes

This section deleted entirely wyes are included in price of the main.

503.4 (f) Sanitary Sewer Force Main Tracer Wire and Box

Sanitary sewer Force Main Tracer Wire and Box shall be measured by the lineal foot. Contractor will only be compensated for tracer wire installed in full working order. The contract price shall be full payment for all work, materials and incidentals required to complete the work in accordance with the description.

504.2(a) Reinforced Concrete Pipe

In the third paragraph a correction has been made to the reference of “Using Rubber Gaskets, ASTM C”. The correct reference is ASTM C 443.

504.2(b) Corrugated Polyethylene with Smooth Inner Liner Pipe.

Revised to be current with correct ASTM numbers.

504.2(i) Joint Ties

Joint ties shall be required on all size pipes on last two downstream joints. Old specification only required joint ties on pipes over 36” diameter.

504.2(j) Electronic Markers

New section for electronic markers for locating required for all non-conductive pipe.

504.3(d), 504.4(e) Electronic Markers

New section for electronic markers for locating required for all non-conductive pipe.

504.4(a) Measurement and Payment

504.4 (a) Storm Sewer Pipes

In the second paragraph, add the word “furnishing”. The sentence reads, “The contract price shall include furnishing all materials... (clarification of specification)

504.4(e) Electronic Markers for Locating

New section for electronic markers required for locating for all non-conductive pipe.

504.4(f) Plastic Storm Pipe

New section to mandrell plastic storm pipe at the discretion of the engineer.

507.1, 507.2, 507.3, 507.4 Sewer Structures

Added reference to cleanouts.

Added sections to reference new SAS lids, inlets in cul-de-sacs and alleys.

PART 6

No revisions

PART 7

702.5 Materials for Service Lateral Installation

Added language to service box description to clarify which model box top is required.

703.12 Installation of Copper Services

Added language about contractor being required to respond to property problems after copper service is replaced.

DETAILS

- | | |
|----------|---|
| SDD 1.06 | NEW DETAIL. Inlet Protection Type D |
| SDD 3.02 | Clarify size of expansion joints for driveways. |
| SDD 3.03 | Clarify size of expansion joints for sidewalk ramps. |
| SDD 3.04 | Clarify placement of curb ramp detectable warning fields at cross walks |
| SDD 3.14 | NEW DETAIL for bike path ramps |
| SDD 4.01 | Change upper layer pavement thickness from 1.5" to 1.75" as recommended by WDOT |
| SDD 4.02 | Change upper layer pavement thickness from 1.5" to 1.75" as recommended by WDOT |
| SDD 4.03 | Change upper layer pavement thickness from 1.5" to 1.75" as recommended by WDOT |

- SDD 4.06 Change upper layer pavement thickness from 1.5” to 1.75” as recommended by WDOT
- SDD 4.07 NEW DETAIL. Typical Alley With Curb & Gutter
- SDD 4.08 Clarify asphalt aggregate size for bikepaths
- SDD 4.10 New detail for Concrete Speed Hump
- SDD 4.11 New detail for Concrete Speed Hump with raised gutter
- SDD 5.1.3 NEW DETAIL. Typical Section SAS Access Road Temporary
- SDD 5.1.4 NEW DETAIL. Typical Section SAS Access Road Permanent
- SDD 5.2.1 Title Changed to ‘Pipe Bedding & Backfill’, revised title in drawing to ‘Bedding for sanitary sewer pipes as well as metal, ADS, and PVC storm pipes’
- SDD 5.2.1A NEW DETAIL. HDPE Bedding and Backfill
- SDD 5.3.1 Revised Riser Detail
- SDD 5.3.2 Added marker Disk note. Clarify location of laterals for duplex lots.
- SDD 5.4.13 NEW DETAIL. Bio-Retention Detail
- SDD 5.7.1 Added Note #5 to clarify roof thickness.
- SDD 5.7.3 Added ‘Field Poured’ to the title. Added note #5 to clarify roof thickness.
- SDD 5.7.5 Added an alternate roof detail
- SDD 5.7.9A NEW DETAIL. Storm Sewer Field Poured Saddled SAS
- SDD 5.7.10 Epoxy coated dowels added to base and embedded into base. Some repetitious notes removed. ‘DRAWING NOT TO SCALE’ note added. Added ‘Storm Sewer’ to the title
- SDD 5.7.10A NEW DETAIL. Storm Sewer Precast Saddled SAS
- SDD 5.7.11 Some repetitious notes removed
- SDD 5.7.16 New SAS frame & cover with Engineering logo.
- SDD 5.7.19 DELETED

- SDD 5.7.22 Title change only. Deleted “EL CURB BOX”, changed to “-7004”. Refers inlet with “Drains to lake” stamp.
- SDD 5.7.27 Detail dimensions have changed. Added inlet casting side view and a note
- SDD 5.7.34 NEW DETAIL. Ditch Inlet Structure
- SDD 5.7.35 NEW DETAIL. Terrace Flume
- SDD 5.7.36 NEW DETAIL. Sidewalk Drain
- SDD 5.7.37 NEW DETAIL. Ribbon Curb Casting (Neenah R-3382)
- SDD 5.7.38 NEW DETAIL. Curb head detail for converting ‘H’ inlet to a driveway inlet without changing the frame. R-3067-7000