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Revise 320.2(1) to require QMP testing as specified for class II ancillary concrete under standard spec part 7. Concrete base was previously covered under the concrete pavement QMP special provision.

Delete 320.3.3 to eliminate the Concrete Base Widening bid item.

Revise 320.5(1) and delete 320.5(4) to eliminate the Concrete Base Widening bid item.

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Add section 405 to specify special materials and construction procedures required to provide colored concrete in association with work bid under other concrete bid items in the contract. Additional costs associated with coloring and working with colored concrete are bid under the Coloring Concrete bid items in this section. All other costs for providing colored concrete work are included in associated contract bid items.

- Add new bid item for Coloring Concrete Red.

<u>SECTION 415 CONCRETE PAVEMENT</u>	<u>162</u>
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Rewrite section 415 to reflect current practice and institute key changes as follows:

- Add new bid items for 12 1/2, 13, & 13 1/2 inch concrete pavement.
- Move the bid items from section 416 that must conform to the class I concrete QMP provisions here to section 415:
 - Concrete Pavement Gaps
 - Concrete Alley and Concrete Alley HES
 - Concrete Pavement Approach Slab and Concrete Pavement Approach Slab HES
- Eliminate continuously reinforced concrete pavement.
- Eliminate continuous diamond grinding now done by special provision.
- Replace tabulated crack repair costs with a pay equation and reduce the amount reimbursed.

<u>SECTION 416 CONCRETE PAVEMENT - APPURTENANT CONSTRUCTION</u>	<u>175</u>
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Rewrite section 416 to reflect current practice and institute key changes as follows:

- Incorporate SPV special provision for roundabout truck aprons.
- Incorporate SPV special provision for concrete shoulder rumble strips.
- Incorporate STSP 415-030 for intersection concrete rumble strips.
- Move the Concrete Pavement Gaps, Concrete Alley, and Concrete Pavement Approach Slab bid items to section 415.
- Eliminate pavement widening work now done under the the Concrete Pavement bid items.
- Eliminate concrete header work now done under the Concrete Pavement Gaps bid items.

- Eliminate pavement terminal unit work no longer done on new work.
- Eliminate continuous diamond grinding now done by special provision.

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- Revise 502.2.12.2(1) to switch from AASHTO M232 to the equivalent ASTM A 153 supplemented by ASTM F 2329 for hot-dip galvanizing. Also switch from AASHTO M 298 to ASTM B 695 for mechanical galvanizing.
- Revise 502.4.6(1) to eliminate additional measurement for re-sealing over pavement marking.
- Revise 502.5.6(1) to specify that payment for re-sealing over pavement marking is incidental to pavement marking.

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- Revise and retitle 504.3.1 to define general construction requirements for culverts, retaining walls, and endwalls. Parapets placed on retaining walls cannot be slip formed unless explicitly allowed in the special provisions.
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Revise 614.2.1(4) to specify ASTM standards for base materials for nuts, bolts, and washers for guardrail.

Revise 614.2.2(1) to require strength testing according to ASTM D 4832 and eliminate the 90-day requirement.

Replace 614.3 to add general requirements to paint drilled, cut , or otherwise damaged galvanized coatings.

Add 614.3.2.5 to specify grading, shaping, and finishing for barrier systems. This revision incorporates STSP 205-009 Grading, Shaping and Finishing for Barrier Terminals.

Revise 614.3.3(2) to prohibit pre-packaged sand.

Revise 614.3.3(3) to require marking the foundation pads with design details required for array maintenance.

Revise 614.4(1) to specify measurement for the Barrier System Grading Shaping Finishing bid item by each location.

Revise 614.5(1) to add new Midwest Guardrail System (MGS) and Barrier System Grading Shaping Finishing bid items.

Revise 614.5(4) to specify payment for the MGS Guardrail, and various transition bid items.

Add 614.5(14) to specify payment for the Barrier System Grading Shaping Finishing bid item.

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SECTION 618 MAINTENANCE AND REPAIR OF HAUL ROADS.....409

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<http://roadwaystandards.dot.wi.gov/standards/cmm/forms/ws6191.xls>

This change was implemented in ASP 6 effective with the March 2011 letting.

SECTION 620 CONCRETE CORRUGATED MEDIAN AND CONCRETE MEDIAN NOSE411

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SECTION 621 LANDMARK REFERENCE MONUMENTS413

Revise 621.2 (4) to specify QMP for class II ancillary concrete under section 716.

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<u>SECTION 632 FURNISHING AND PLANTING PLANT MATERIALS</u>	<u>445</u>

Revise 632.3.19.1(2) to clarify that each care cycle is about 2 weeks long. One and two-year contracts should thus typically have a quantity of about 10 or 20 care cycles respectively.

<u>SECTION 633 DELINEATORS AND MARKERS</u>	<u>455</u>
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Revise 633.2.1(3) to switch from AASHTO M 111 to the equivalent ASTM A 123 for hot-dip galvanizing.
 Revise 633.2.5 to eliminate plastic reflectors and instead use sheet aluminum disks with type SH reflective sheeting.

<u>SECTION 634 WOOD AND TUBULAR STEEL SIGN POSTS</u>	<u>458</u>
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<u>SECTION 635 STRUCTURAL STEEL SIGN SUPPORTS</u>	<u>460</u>
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Revise 635.2(2) and 635.2(3) to eliminate weathering steel and switch from AASHTO to the equivalent ASTM standards.
 Revise 635.3.3(2) to switch from AASHTO M 111 to the equivalent ASTM A 123 for hot-dip galvanizing.

<u>SECTION 636 CONCRETE SIGN SUPPORTS</u>	<u>462</u>
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Revise 636.2 (2) to specify QMP for class II ancillary concrete under section 716.

<u>SECTION 637 SIGNING</u>	<u>464</u>
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Revise 637.2.1.2(1) to require 7-ply sign bases rather than the current 5-ply allowed under U.S. Product Standard PS 1
 Delete 637.2.2.1 to eliminate standard reflective sheeting.
 Revise 637.2.2.4(1) to require type XI sheeting. Other types are no longer acceptable regardless of their retroreflection and luminance properties.
 Revise 637.3.2.8.1(1) to require aluminum for small signs.

<u>SECTION 638 STATE OWNED SIGNS AND SUPPORTS</u>	<u>472</u>
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Revise 638.3.4(2) & (3) to specify that aluminum signs are department property; plywood signs belong to the contractor.

<u>SECTION 639 DRILLING WELLS</u>	<u>474</u>
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Revise 639.2.1 (1) to specify QMP for class III ancillary concrete under section 716.

<u>SECTION 641 SIGN BRIDGES AND SUPPORTS</u>	<u>480</u>
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Revise 641.2.2(1) and 641.2.2(3) to switch from AASHTO M232 to the equivalent ASTM A 153 supplemented by ASTM F 2329 for hot-dip galvanizing. Also switch from AASHTO M 298 to ASTM B 695 for mechanical galvanizing.

<u>SECTION 642 FIELD FACILITIES</u>	<u>486</u>
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<u>SECTION 643 TRAFFIC CONTROL</u>	<u>489</u>
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Revise 643 to incorporate STSP 643-050 Traffic Control Signs Portable Changeable Message.
 Revise 643.2.7 to add equipment requirements for portable changeable message signs.
 Revise 643.2.9.1(6) to eliminate the use of standard reflective sheeting on all signs.
 Revise 643.2.9.1(10) to eliminate standard reflective sheeting.
 Delete 643.2.9.2(4) to eliminate the use of standard reflective sheeting on all signs.
 Revise 643.2.9.5 to provide specific requirements for sign covering materials and allow for engineer-approved alternates.
 Revise 643.3.2(4)-(7) to require two traffic control inspections per workday and one on non-workdays.
 Revise 643.3.7 to add construction requirements for portable changeable message signs.

Revise 643.3.8.1(1) to add construction requirements for sign covers.

Add 643.4.3(7) to specify measurement by the calendar day for portable changeable message signs.

Add 643.5.1(1) to add a new bid item for portable changeable message signs.

Add 643.5.4(12) to specify payment for portable changeable message signs and remote programming.

SECTION 645 GEOTEXTILE FABRICS.....500

SECTION 646 PAVEMENT MARKINGS.....506

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Revise 646.2.3(3) to specify limits for arsenic and lead in glass beads.

Revise 646.3.1 to require removal of protective surface treatment on structures before marking and to require only epoxy marking on epoxy overlays.

Add 646.3.1.4 to specify late season marking for all pavement marking applied after November 15th.

Add 646.4(4) to specify measurement of epoxy marking placed as a substitution on epoxy overlays.

Revise 646.5(2) to make resealing structures after marking incidental to the pavement marking bid items.

Add 646.5(3) to make late season marking required under 646.3.1.4 incidental to the contract unless required because of an excusable compensable delay or if the Pavement Marking Late Season bid item is added by special provision.

Add 646.5(7) to specify payment for epoxy marking placed as a substitution on epoxy overlays.

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SECTION 650 CONSTRUCTION STAKING518

SECTION 651 GENERAL REQUIREMENTS FOR ELECTRICAL WORK524

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Revise 651.3.3(3) to require 5 days notice for signal inspection.

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SECTION 653 PULL BOXES AND JUNCTION BOXES.....530

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Revise 654.2.1 (5) to specify QMP for class III ancillary concrete under section 716.

SECTION 655 ELECTRICAL WIRING533

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SECTION 656 ELECTRICAL SERVICE.....539

SECTION 657 POLES, ARMS, STANDARDS, AND BASES542

SECTION 658 TRAFFIC SIGNALS.....546

Revise 658.2.2. to require stainless steel bolt with wing nut closures for signal housing doors and LED display modules.

Revise 658.2.3. to require z-crate visors for use with 16-inch housing doors and LED pedestrian display modules.

Replace 658.2.4. to add material requirements for programmable traffic signal faces.

Revise 658.3.3 to specify construction requirements for programmable signal faces.

Revise 658.4(1) to add measurement requirements for programmable signal faces and LED displays.

Revise 658.5) to add new bid items and payment requirements for programmable signal faces and LED displays.

SECTION 659 LIGHTING550

Revise 659.3.2 to upgrade and clarify fusing requirements require insulated multi-tap terminal blocks.

SECTION 660 HIGH MAST LIGHTING554

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Revise 660.2.3(4) to supplement ASTM A 153 with ASTM F 2329 for hot-dip galvanizing.

SECTION 661 TEMPORARY TRAFFIC SIGNALS AND TEMPORARY RAMP METERS559

Revise 661.2.1(4) to allow engineer-approved used temporary signal faces and LED modules.

Revise 661.3.3.1(2) to require trailer mounted signals from the department@@s approved products list

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PART 7 QUALITY MANAGEMENT PROGRAM

Add part 7 to describe the department@@s quality management program. This revision incorporates the following standardized special provisions:

- STSP 415-065 QMP Concrete Pavement
- STSP 501-065 QMP Concrete Ancillary
- STSP 502-045 QMP Concrete Structures

SECTION 701 GENERAL QMP REQUIREMENTS.....592

Add section 701 to describe general requirements common to all QMP@@s under part 7 of the standard specs.

SECTION 710 GENERAL CONCRETE QMP.....596

Add section 710 to describe general requirements common to the 3 concrete related QMP@@s under part 7.

SECTION 715 QMP CONCRETE PAVEMENT AND STRUCTURES.....599

Add section 715 to describe specific QMP requirements for class I concrete used in pavement and structures. This revision incorporates the following standardized special provisions:

- STSP 415-065 QMP Concrete Pavement
- STSP 502-045 QMP Concrete Structures

SECTION 716 QMP ANCILLARY CONCRETE604

Add section 716 to describe specific QMP requirements for class II and III concrete used in ancillary applications. This revision incorporates standardized special provision 501-065 QMP Concrete Ancillary.

SCHEDULE OF BID ITEMS

Part 1 Bid Items605

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Part 3 Bid Items606

Retire the Concrete Base Widening bid item.

Part 4 Bid Items607

Add bid items for coloring concrete red for roundabout truck aprons and other bid items using concrete.
Add bid items for 12 1/2, 13, 13 1/2 inch concrete pavement.
Move bid items for gaps, alleys and approach slabs covered class 1 QMP specifications to section 415.
Add bid items for 12 1/2, 13, 13 1/2 inch HES concrete pavement.
Move bid items for HES alleys and approach slabs covered class 1 QMP specifications to section 415.
Retire the Concrete Pavement Continuous Reinforcement bid item.
Retire the Concrete Pavement Widening bid items now bid as the appropriate concrete pavement item.
Retire the Concrete Pavement Header bid items now bid as the Concrete Pavement Gaps item.
Add bid items for concrete truck aprons used on roundabouts. Use with Coloring Concrete Red bid item.
Retire the Concrete Pavement Continuous Diamond Grinding bid item now bid only by special provision.
Incorporate concrete rumble strip special provision bid items for shoulders (SPV) and intersections (415.1180.S).

Part 5 Bid Items609

Add new bid item for Type L masonry anchor using No. 10 bars.
Add new bid items for 5/8 inch and 3/4 inch diameter shear studs.

Part 6 Bid Items620

Retire bid item 601.0318 and add 601.0319 to switch from 18" to 19" curb & gutter used on City of Milwaukee projects.
Add new bid item for a type BW inlet cover.
Add new grading, shaping, and finishing bid items for barrier Systems.
Add new Midwest Guardrail System (MGS)bid items.
Add new Refurbish Guardrail Terminal EAT bid item.
Add bid item for portable changeable message sigs previously bid under the special provision item 643.1050.S.
Add bid items for new bike shared lane symbols.
Add new bid items for LED display modules.
Add new bid item for programmable traffic signal faces.

Part 7 Bid Items640

Add contingency items for concrete strength incentives.

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<u>T</u>	<u>674</u>
<u>U</u>	<u>675</u>
<u>V</u>	<u>675</u>
<u>W</u>	<u>675</u>
<u>Z</u>	<u>677</u>

APPENDIX

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