

Table of Contents

PART 100 General Provisions

<u>Section 110 Project Management</u>	<u>2</u>
<u>Section 115 Glossary.....</u>	<u>14</u>
<u>Section 130 Hazardous Materials</u>	<u>25</u>
<u>Section 135 Safety</u>	<u>37</u>
<u>Section 140 Field Facilities and State-Owned Equipment.....</u>	<u>52</u>
<u>Section 145 Traffic Control</u>	<u>54</u>
<u>Section 150 Construction Equipment</u>	<u>75</u>
<u>Section 155 Construction Site Crashes</u>	<u>77</u>
<u>Section 158 Cultural Resources (Archaeology, Burial Sites, and Historic Structures)</u>	<u>78</u>
<u>Section 160 Construction Inspection</u>	<u>79</u>
<u>Section 165 Contract Records</u>	<u>94</u>
<u>Section 170 Performance Measures.....</u>	<u>107</u>

PART 200 Contract Management

<u>Section 210 Contracts and Agreements</u>	<u>110</u>
<u>Section 214 Federal Aid Local Road Projects</u>	<u>115</u>
<u>Section 215 Transparency Efforts for Projects</u>	<u>116</u>
<u>Section 216 Consultant Contracts for Construction Services</u>	<u>117</u>
<u>Section 218 Project Relationships and Communication</u>	<u>118</u>
<u>Section 219 Construction Services by Local Units of Government</u>	<u>124</u>
<u>Section 220 Public Relations</u>	<u>126</u>
<u>Section 222 Notice to Proceed.....</u>	<u>129</u>
<u>Section 224 Labor Compliance</u>	<u>130</u>
<u>Section 226 Preconstruction Meeting</u>	<u>134</u>
<u>Section 228 Laws and Standards</u>	<u>136</u>
Revise 228.5 Buy America Provision to be in accordance with updated Federal Register 88 FR 57750 (2 CFR Parts 184 and 200).	
<u>Section 230 Right of Way</u>	<u>146</u>
<u>Section 231 Use of Materials Found on the Project</u>	<u>148</u>
<u>Section 232 Measurement and Payment.....</u>	<u>149</u>
<u>Section 233 Payment - Local Force Account Agreements</u>	<u>151</u>
<u>Section 234 Site Time - Damages and Incentives</u>	<u>152</u>
<u>Section 236 Intermediate/Tentative/Final Estimates</u>	<u>153</u>
<u>Section 238 Administrative Items</u>	<u>156</u>
<u>Section 240 Prompt Payment.....</u>	<u>159</u>
<u>Section 242 Change Orders</u>	<u>163</u>
<u>Section 244 Cost Reduction Incentive</u>	<u>174</u>
<u>Section 246 Force Account Work</u>	<u>176</u>
<u>Section 248 Suspension of Work.....</u>	<u>180</u>
<u>Section 250 Project Acceptance</u>	<u>182</u>
<u>Section 252 Bonds and Warranties</u>	<u>184</u>
<u>Section 253 Dispute Resolution Procedures</u>	<u>185</u>
<u>Section 254 Contract Claims.....</u>	<u>193</u>
<u>Section 256 Utilities</u>	<u>195</u>
<u>Section 258 Railroad Agreement</u>	<u>199</u>
<u>Section 260 Subcontracting</u>	<u>204</u>

PART 300 Earthwork and Bases

<u>Section 310 Clearing and Grubbing</u>	<u>217</u>
<u>Section 315 Removing Miscellaneous Structures.....</u>	<u>219</u>
<u>Section 320 Roadway and Drainage Excavation</u>	<u>221</u>

<u>Section 325 Structure Excavation</u>	226
<u>Section 330 Embankments.....</u>	227
<u>Section 335 Borrow Excavation.....</u>	232
<u>Section 340 Granular Subbase Course</u>	233
<u>Section 345 Dust Control</u>	234
<u>Section 350 Rubblizing Concrete Pavement.....</u>	235

PART 400 Pavements

<u>Section 410 Concrete Pavement - General</u>	239
<u>Section 411 Preparing the Grade for Concrete Pavement.....</u>	242
<u>Section 415 Hauling and Placing Concrete</u>	245
<u>Section 416 Concrete Consolidation.....</u>	248
<u>Section 417 Concrete Finishing.....</u>	250
<u>Section 418 Concrete Texturing and Tining</u>	252
<u>Section 419 Protecting Freshly Placed Concrete.....</u>	254
<u>Section 421 Pavement Joints.....</u>	256
<u>Section 424 Concrete Paving Inspection</u>	262
<u>Section 450 Asphalt Pavement - General.....</u>	269
<u>Section 451 Asphalt Mixing Plants</u>	271
<u>Section 453 Mix Production</u>	274
<u>Section 454 Preparation of Foundation for Asphalt Pavement.....</u>	278
<u>Section 456 Hauling Asphaltic Mixture</u>	283
<u>Section 457 Asphalt Pavers</u>	285
<u>Section 458 Placing Asphalt Mixtures.....</u>	291
<u>Section 459 Asphalt Mat Inspection</u>	300
<u>Section 461 Compaction and Density of Asphalt Pavement.....</u>	307

PART 500 Structures

<u>Section 510 Concrete Masonry</u>	310
<u>Section 515 Concrete Structures.....</u>	322
<u>Section 520 Steel Bridges</u>	336
<u>Section 525 Bridge Decks</u>	347
<u>Section 528 Concrete Deck Removals, Overlays, and Structure Repairs.....</u>	354
<u>Section 530 Painting</u>	357
<u>Section 540 Piling</u>	358
<u>Section 545 Railing</u>	359
<u>Section 550 Pipe Culverts</u>	360
<u>Section 555 Noise Walls</u>	366
<u>Section 560 Retaining Walls.....</u>	367
<u>Section 565 Temporary Structures</u>	368
<u>Section 570 Ancillary Structures</u>	370

PART 600 Miscellaneous Construction

<u>Section 610 Concrete Curb Ramps</u>	377
<u>Section 615 Storm Sewer</u>	379
<u>Section 620 Manholes and Inlets</u>	382
<u>Section 625 Marker Posts, Cable Guard Fence, and Steel Plate Beam Guard.....</u>	384
<u>Section 626 Energy Absorbing Terminals</u>	396
<u>Section 627 Crash Cushions and Sand Barrel Arrays</u>	409
<u>Section 630 Property Fence and Right of Way Fence</u>	413
<u>Section 635 Maintenance and Repair of Haul Roads</u>	414
<u>Section 640 Landscaping</u>	417
<u>Section 645 Erosion Control</u>	435

Section 650 Pavement Marking and Delineation	449
Revise 650.4.1 to remove some information and add guidance relating to removal of permanent pavement markings.	
Revise 650.4.9 groove depth for tape and wet reflective epoxy to match manufacturer's updated recommended depths.	
Section 655 Electrical Construction	453
Section 660 Well Construction and Borehole Abandonment.....	463
Section 670 Safety Edge.....	469

PART 700 Construction Surveying

Section 710 Construction Surveying - General	475
Revise the CMM provisions mobilized by the contract text box to change wording from contractor to construction data packet.	
Revise 710.2 to change wording from contractor to construction data packet.	
Revise 710.3 to change title wording and wording within subsection from contractor to construction data packet.	
Revise 710.6.1 to change wording from contractor data package to contractor staking data packet.	
Section 715 Highway Staking.....	477
Section 718 Automated Machine Guidance.....	479
Revise 718.3 to change wording from contractor to construction for data packet.	
Section 719 Automated Machine Guidance - Concrete Paving.....	484
Revise 719.3 to change wording from contractor to construction for data packet.	
Section 720 Staking Storm Sewer System.....	487
Section 725 Staking Subgrade and Base	493
Section 730 Staking Curb, Gutter, Curb and Gutter, and Concrete Barrier	495
Section 735 Staking Pipe Culverts	498
Section 740 Staking Structure Layout.....	504
Section 745 Staking Concrete Pavement.....	509
Section 750 Staking Re-Surfacing Reference.....	511
Section 755 Staking Electrical Installations.....	513
Section 760 Staking Supplemental Control	515
Section 762 Slope Staking	519
Section 765 Staking Right of Way	524
Section 770 Cross Sections and Digital Terrain Models	525
Section 775 Staking Borrow Pits	526
Section 780 Constructing and Restoring Access Points	527
Section 785 Survey Monuments	531

PART 800 Materials Testing, Sampling, and Acceptance

Section 810 Materials - General	539
Revise 801.2 to add link to WisDOT's Manual of Test Procedures and add reference to CMM chapter 800.	
Revise 810.5.3 to update WisDOT contact information.	
Section 813 Weighed Materials.....	545
Section 815 Density Testing	556
Revise 815.2 to remove portion of subsection relating to nuclear gauge licensing and operator certification information. This information can be found in WTM T355.	
Revise 815.3 to remove Nuclear Gauge Safety subsection that included Lost or Stolen Gauges (815.3.1) and Damaged Gauge (815.3.2) subsections. This information can be found in WTM T355.	
Revise 815.5 to remove some information from Nuclear Gauge Density Testing HMA subsection. This information can be found in WTM T355.	
Revise 815.6 to remove Project Nuclear Gauge Density Testing subsection. This information can be found in WTM T355.	
Revise 815.7 to remove some QMP QC and QV Nuclear Density Gauge Comparison information. This information can be found in WTM T355 and WTM T310.	
Revise 815.8 to remove HMA QMP Reference Site Monitoring and Non QMP HMA Nuclear Density Reference Site Monitoring subsections (formerly numbered 815.8 and 815.9). This information can be found in WTM T355.	
Revise 815.10 to remove some information from Use of Nuclear Moisture/Density Gauges on HMA subsection. This information can be found in WTM T355.	

Remove 815.10.1 Target Maximum Density subsection. This information can be found in WTM T355.
Remove 815.10.2 Lots and Sublots subsection along with the following subsections: Layout Based on a Single Paved Lane, Single Paved Lane Greater than or equal to 1,500 feet, Single Paved Lane Less than 1,500 feet, Layout Based on Multiple Paved Lanes Within a Contiguous Pavement Area, and Location of Random Test Sites (former subsection numbers 815.10.2.1, 815.10.2.1.1, 815.10.2.1.2, 815.10.2.2, and 815.10.3) This information can be found in WTP H-002.
Remove some information from 815.10.4 Duration of Test and Gauge Placement subsection. This information can be found in WTM T355 and WTM T310.
Remove 815.12 Soils Reference Site Monitoring subsection. This information can be found in WTM T310.
Remove some information from 815.12.1 Use of Nuclear Moisture/Density Gauges on Soils, Base Course, etc. This information can be found in WTM T310.
Remove some information from 815.12.2 Establishing a Moisture Density Gauge Bias for Soils subsection. This information can be found in WTM T310.
Revise 815.13.1 figure number and add reference to WTM T355.
Remove some information from 815.13.1.1 Sampling and Testing Intervals subsection. This information can be found in WTM T355.
Remove some information from 815.13.1.2 Field Tests subsection and add references to WTM procedures.
Remove some information from 815.12.1.3 Laboratory Tests subsection and add references to various WTM procedures.
Section 820 Independent Assurance Program.....564
Section 830 QMP - General565
Section 832 QMP - Subgrade575
Revise 832.3 contact information and replace test references to WisDOT's Test Modified (WTM) or WisDOT's Test Procedure (WTP) methods found in the Manual of Test Procedures (MOTP).
Revise 832.5.1 to update test references to WTM procedures.
Section 834 QMP - Aggregate601
Revise 834.1.3 to change test references to WisDOT's Test Modified (WTM) procedures in the Manual of Test Procedures (MOTP).
Revise 834.1.5 to change test reference to WTM procedures.
Section 835 QMP – Concrete.....590
Section 836 QMP - HMA.....613
Revise 836.4 to change test reference to WisDOT's Test Modified (WTM) methods found in the Manual of Test Procedures.
Remove the following subsections: Sampling from the Truck Box, Sample Location in Truck, QC Sample Size, and QV Sample Size (former subsection numbers 836.4.1, 836.4.2, 836.4.2.1, 836.4.2.2). This information can be found in WTM R97.
Revise 836.5 to remove some Sampling Identification information. This information can be found in WTM R97.
Remove the following subsections: Two-Part Splitting of HMA Samples and Two-Part Quartering Method (former subsection numbers 836.5.1, 836.5.1.1). This information can be found in WTM R97.
Remove 836.5.1.2 Two-Part Splitting Using the Quartermaster™ subsection. This information can be found in WTM R47.
Remove the following subsections: Three-Part Splitting of HMA Samples, Three-Part Quartering Method, and Three-Part Splitting Using the Quartermaster™ (former subsection numbers 836.5.2, 836.5.2.1, and 836.5.2.2). This information can be found in WTM R97.
Remove the following subsections: Further Reduction of HMA to Testing Size and Further Reduction of SMA Samples to Test Size (former subsection numbers 836.5.4, and 836.5.5). This information can be found in WTM R47.
Remove 836.6.2 QV Tests subsection. This information can be found in Standard Spec 460.
Revise 836.6.3 to update sampling methods to various WTM procedures.
Remove 836.6.3.1 Automated Extraction of Asphalt Binder (AC) by WisDOT-Modified ASTM D8159 subsection. This information can be found in WTM D8159.
Remove 836.6.3.6 Asphalt Content by Ignition Oven WisDOT-Modified AASHTO T308 subsection. This information can be found in WTM T308.
Remove the following subsections: Ignition Oven Correction Factor, General, Initial Ignition Oven Correction Factor Determination, Reverification of the Ignition Oven Correction Factor, General, Witnessed Reverification, Unwitnessed Reverification, Verification of IOCF by Automated Extraction, and Optional QC and QV Asphalt Binder Content Comparison (former subsection numbers 836.6.3.7, 836.6.3.7.1, 836.6.3.7.2, 836.6.3.7.3, 836.6.3.7.3.1, 836.6.3.7.3.2, 836.6.3.7.3.3, 836.6.3.7.3.4, and 836.6.3.8). This information can be found in WTP H-003.
Remove 836.6.4 HMA Compaction by WisDOT Modified AASHTO T312 subsection. This information can be found in WTP T312.
Remove 836.6.5 Bulk Specific Gravity by WisDOT-Modified AASHTO T166 subsection. This information can be found in WTP T166.

Remove 836.6.6 Theoretical Maximum Specific Gravity by WisDOT-Modified AASHTO T209 subsection. This information can be found in WTM T209.
Revise 836.6.7 to replace AASHTO test reference with WTM procedure.
Remove 836.6.8 Air Voids subsection. This information can be found in WTM T269.
Remove Performance Testing Procedures subsection and Hamburg Wheel-Track Test by WisDOT-Modified AASHTO T324, Indirect Tensile Cracking Test by WisDOT-Modified ASTM D8225, and Mixture Conditioning of HMA by WisDOT-Modified AASHTO R30 (former subsection numbers 836.6.10, 836.6.10.1, 836.6.10.2, and 836.6.10.3). This information can be found in WTM T324, WTM D8225, and WTM R30, respectively.
Remove 836.6.11 Vacuum Drying Compacted Asphalt Specimens by WisDOT Modified AASHTO R79 subsection. This information can be found in WTM R79.
Revise 836.6.13.1 to move Figure 836-2 Request for JMF Change Form (formerly Figure 836-13 at end of subsection) into this subsection.
Revise 836.6.14 to change from AASHTO to WTM test methods.
Revise 836.6.15 to remove minimum test sample size table for AASHTO T164. This information can be found in AASHTO T164.
Revise 836.10 to remove Example Worksheet subsection and move information to 836.6.13.1.
Section 838 Ride Quality 616
Section 840 Materials Sampling..... 624
Section 845 Materials Testing and Acceptance - General 629
Revise 845.3.2.6 to add reference to WisDOT's Manual of Test Procedures (MOTP).
Section 846 Materials Data Collection and Reporting Software System..... 646
Revise 846.2.1.3 to add additional reference to CMM and WisDOT's Manual of Test Procedures (MOTP).
Section 850 Materials Testing and Acceptance Guide 657
Revise 850.1 to change reference for sampling liquid asphalt and emulsified asphalts to WisDOT Test Modified (WTM) methods found in Manual of Test Procedures (MOTP). This information can be found in WTM R66.
Section 855 Materials Testing and Acceptance - Earthwork 682
Section 860 Materials Testing and Acceptance - Aggregates..... 710
Revise the CMM provisions mobilized by the contract text box for section 860 to change references from CMM 860 to WisDOT's Test Modified (WTM) procedures WTM D5821 and WTM D4791.
Revise 860.2.7 to remove some information. This information can be found in WTM T103.
Revise 860.5 to reference WTM R90.
Revise 860.5.1.1 to remove former Table 860-2 Size of Sampling information. This information can be found in WTM R90. Renumber remaining table.
Remove the following subsections: Sampling from a Conveyor Belt, Sampling from a Conveyor Belt Discharge, Sampling from Stockpile, Sampling from Stockpile Alternatives 1 and 2, Sampling from Roadbed Windrow, Sampling After being Placed on Roadbed, Sampling from Concrete Plant Holding Bins, Sampling Asphalt Aggregates from Hot Bins, Sampling from a Truck, Sampling from a Truck Alternatives 1 and 2, and Sampling when Using a Clam Shovel (former subsection numbers 860.5.2, 860.5.3, 860.5.4, 860.5.4.1, 860.5.4.2, 860.5.5, 860.5.6, 860.5.7, 860.5.8, 860.5.9, 860.5.9.1, 860.5.9.2, and 860.5.10). This information can be found in WTM R90.
Revise information in 860.6.1 and refer to WTM R76.
Remove the following subsections: Methods for Reducing Field Sample Size, General, Use of the Riffle Splitter, Quartering Procedure, and Miniature Stockpile Method – Damp Fine Aggregate Only (former subsection numbers 860.6.2, 860.6.2.1, 860.6.2.2, 860.6.2.3, and 860.6.2.4). This information can be found in WTM R76.
Revise 870.7.2 to remove reference to ASTM and refer to WTM D5821.
Remove the following subsections: General, Scope, Definitions, and Procedure (former subsection numbers 860.7.2.1, 860.7.2.2, 860.7.2.3, and 860.7.2.4). This information can be found in WTM D5821.
Revise 860.7.3 to remove reference to ASTM and refer to WTM D4791.
Remove the following subsections: Scope, Definitions, and Procedure (former subsection numbers 860.7.3.2, 860.7.3.3, and 860.7.3.4). This information can be found in WTM D4791.
Revise 860.9.4 to remove reference to former table and refer to WTM R90 for field sample information.
Revise 860.9.5 to remove reference to former table and refer to WTM R90 for field sample information.
Section 865 Asphaltic Binder Materials 713
Revise 865.2 to add reference to WisDOT's Test Modified method found in the Manual of Test Procedures (MOTP) and remove sampling procedure information. This information can be found in WTM R66.
Section 866 Asphalt Mixture Design 714

Revise links throughout 866.2 to refer to WisDOT's Test Modified (WTM) methods found in the Manual of Test Procedures (MOTP) located at: <https://wisconsindot.gov/Documents/doing-bus/eng-consultants/cnslt-rsrces/tools/qmp/motp.pdf>.

Section 870 Materials Testing and Acceptance - Concrete 754

Update 870.2.1.2 to refer to WisDOT's Test Procedure (WTP) methods. Remove reference to former Attachment 870-1.

Update 870.4.3 to refer to various WisDOT Test Modified (WTM) procedures. Remove reference to former Attachments 870.2, 870.8, 870.9, 870.10, 870.11, 870.12, 870.13, 870.14, and 870.15.

Revise 870.4.7 to refer to WTM or WTP test methods. Remove references to former Attachments 870-3, 870-4, and 870-5.

Revise 870.4.8.4 to change test reference from AASHTO to WTM. Update attachment number.

Revise 870.5.2 to change test reference from AASHTO to WTM.

Revise 870.7.2 to change test reference from AASHTO to WTM. Remove reference to former Attachment 870-8.

Revise 870.7.3 and 870.7.4 to change test reference from AASHTO to WTM.

Remove former Attachments 870-1 to 870-5 and 870-8 to 870-15. Renumber former attachment 870-6 to attachment 870-1 and former attachment 870-7 to attachment 870-2. Add references to WisDOT Test Modified (WTM) and WisDOT Test Procedures (WTP).

Section 871 Concrete Mixture Design 754

Section 875 Materials Testing and Acceptance - Structures 760

Revise 875.1.11 WisDOT's contact information for concrete materials supervisor.

Revise to refer to WisDOT's Test Modified (WTM) or WisDOT's Test Procedure (WTP) found in the Manual of Test Procedures (MOTP).