

Table of Contents

PART 100 General Provisions

Section 110 Project Management	2
Section 115 Glossary.....	14
Revise to add information for the links provided throughout document for ASTM and AASHTO standard test procedures.	
Revise link for other commonly used WisDOT acronyms.	
Revise to add definition for structural component floor.	
Section 130 Hazardous Materials	25
Revise to update links for WDNR contact information.	
Section 135 Safety	37
Section 140 Field Facilities and State-Owned Equipment.....	52
Section 145 Traffic Control	54
Section 150 Construction Equipment	75
Section 155 Construction Site Crashes	77
Section 158 Cultural Resources (Archaeology, Burial Sites, and Historic Structures)	78
Section 160 Construction Inspection	79
Section 165 Contract Records	94
Section 170 Performance Measures.....	107

PART 200 Contract Management

Section 210 Contracts and Agreements	110
Section 214 Federal Aid Local Road Projects	115
Section 215 Transparency Efforts for Projects	116
Section 216 Consultant Contracts for Construction Services	117
Section 218 Project Relationships and Communication	118
Section 219 Construction Services by Local Units of Government	124
Section 220 Public Relations	126
Section 222 Notice to Proceed.....	129
Section 224 Labor Compliance	130
Section 226 Preconstruction Meeting	134
Section 228 Laws and Standards	136
Section 230 Right of Way	146
Section 231 Use of Materials Found on the Project	148
Section 232 Measurement and Payment.....	149
Section 233 Payment - Local Force Account Agreements	151
Section 234 Site Time - Damages and Incentives	152
Section 236 Intermediate/Tentative/Final Estimates	153
Section 238 Administrative Items	156
Section 240 Prompt Payment.....	159
Section 242 Change Orders	163
Revise Table 242-1 regarding change order types, approval levels, and order of approval.	
Section 244 Cost Reduction Incentive	174
Section 246 Force Account Work	176
Section 248 Suspension of Work.....	180
Section 250 Project Acceptance	182
Section 252 Bonds and Warranties	184
Section 253 Dispute Resolution Procedures	185
Section 254 Contract Claims	193
Section 256 Utilities	195
Section 258 Railroad Agreement	201
Section 260 Subcontracting.....	206

PART 300 Earthwork and Bases

<u>Section 310 Clearing and Grubbing</u>	<u>219</u>
<u>Section 315 Removing Miscellaneous Structures.....</u>	<u>221</u>
<u>Section 320 Roadway and Drainage Excavation</u>	<u>223</u>
<u>Section 325 Structure Excavation</u>	<u>228</u>
<u>Section 330 Embankments.....</u>	<u>229</u>
<u>Section 335 Borrow Excavation.....</u>	<u>234</u>
<u>Section 340 Granular Subbase Course</u>	<u>235</u>
<u>Section 345 Dust Control</u>	<u>236</u>
<u>Section 350 Rubblizing Concrete Pavement.....</u>	<u>237</u>

PART 400 Pavements

<u>Section 410 Concrete Pavement - General</u>	<u>241</u>
<u>Section 411 Preparing the Grade for Concrete Pavement.....</u>	<u>244</u>
<u>Section 415 Hauling and Placing Concrete</u>	<u>247</u>
<u>Section 416 Concrete Consolidation</u>	<u>250</u>
<u>Section 417 Concrete Finishing.....</u>	<u>252</u>
<u>Section 418 Concrete Texturing and Tining</u>	<u>254</u>
<u>Section 419 Protecting Freshly Placed Concrete.....</u>	<u>256</u>
<u>Section 421 Pavement Joints.....</u>	<u>258</u>
<u>Section 424 Concrete Paving Inspection</u>	<u>264</u>

- Revise to record paving inspection and cross section checking information in field notebooks and daily diary.
- Revise links and change from "...compensation to the contractor" to "...cost to the department."
- Revise links throughout document for adjusting pay for concrete crack repairs for ancillary concrete.
- Revise to update guidance for when rain is forecast or has occurred on concrete pavement.
- Revise opening strength information to match information in standard specification 416.2.3 and 416.2.4.

<u>Section 450 Asphalt Pavement - General.....</u>	<u>271</u>
<u>Section 451 Asphalt Mixing Plants</u>	<u>273</u>
<u>Section 453 Mix Production</u>	<u>276</u>
<u>Section 454 Preparation of Foundation for Asphalt Pavement.....</u>	<u>280</u>
<u>Section 456 Hauling Asphaltic Mixture</u>	<u>285</u>
<u>Section 457 Asphalt Pavers</u>	<u>287</u>
<u>Section 458 Placing Asphalt Mixtures.....</u>	<u>293</u>
<u>Section 459 Asphalt Mat Inspection</u>	<u>302</u>
<u>Section 461 Compaction and Density of Asphalt Pavement.....</u>	<u>309</u>

PART 500 Structures

<u>Section 510 Concrete Masonry</u>	<u>312</u>
<u>Section 515 Concrete Structures</u>	<u>324</u>
<u>Section 520 Steel Bridges</u>	<u>338</u>

- Revise information for bolts and tensioning high-strength bolts.
- Revise title from Long Bolt Testing Procedure to Pre-Installation Verification for pre-installation testing.
- Revise select welding information throughout subsection.
- Revise to add that the contractor inspector and the welder must not be the same individual.
- Revise to add exceptions for welding on primary members.
- Add subsection for welding to historic steels.
- Revise footnote in Table 520-1. Update source information date for Table 520-1, Figure 520-1, and Table 520-3.

<u>Section 525 Bridge Decks</u>	<u>349</u>
<u>Section 528 Concrete Deck Removals, Overlays, and Structure Repairs.....</u>	<u>356</u>
<u>Section 530 Painting</u>	<u>359</u>
<u>Section 540 Piling</u>	<u>360</u>
<u>Section 545 Railing</u>	<u>361</u>
<u>Section 550 Pipe Culverts</u>	<u>362</u>

<u>Section 555 Noise Walls</u>	368
<u>Section 560 Retaining Walls.....</u>	369
<u>Section 565 Temporary Structures.....</u>	370
<u>Section 570 Ancillary Structures</u>	372

<u>Revise select information and add information regarding follow-up inspection for minor punch list items.</u>
<u>Revise to state that contractor is responsible for supplying RoCAP test from the supplier.</u>
<u>Revise select information in subsection for anchor rod installation, high strength bolts, and rotational capacity testing.</u>
<u>Revise and add information to pre-installation test and torque testing subsection.</u>
<u>Revise construction inspection checklist for ancillary structures and add information for signal monotube inspections.</u>

PART 600 Miscellaneous Construction

<u>Section 610 Concrete Curb Ramps</u>	379
<u>Section 615 Storm Sewer</u>	381
<u>Section 620 Manholes and Inlets</u>	384
<u>Section 625 Marker Posts, Cable Guard Fence, and Steel Plate Beam Guard.....</u>	386
<u>Section 626 Energy Absorbing Terminals</u>	398
<u>Section 627 Crash Cushions and Sand Barrel Arrays</u>	411
<u>Add subsection for crash cushions and sand barrel arrays record keeping.</u>	
<u>Section 630 Property Fence and Right of Way Fence</u>	415
<u>Section 635 Maintenance and Repair of Haul Roads</u>	416
<u>Section 640 Landscaping</u>	419
<u>Section 645 Erosion Control</u>	437
<u>Section 650 Pavement Marking and Delineation</u>	451
<u>Revise to remove information for options when there was water or dampness in the grooves.</u>	
<u>Section 655 Electrical Construction</u>	456
<u>Section 660 Well Construction and Borehole Abandonment.....</u>	466
<u>Section 670 Safety Edge.....</u>	472

PART 700 Construction Surveying

<u>Section 710 Construction Surveying - General</u>	477
<u>Revise to remove information for contractor to complete DT2262 control survey station record in Table 710-1.</u>	
<u>Section 715 Highway Staking.....</u>	480
<u>Section 718 Automated Machine Guidance</u>	482
<u>Section 719 Automated Machine Guidance - Concrete Paving.....</u>	487
<u>Section 720 Staking Storm Sewer System.....</u>	490
<u>Section 725 Staking Subgrade and Base</u>	496
<u>Section 730 Staking Curb, Gutter, Curb and Gutter, and Concrete Barrier</u>	498
<u>Section 735 Staking Pipe Culverts</u>	501
<u>Section 740 Staking Structure Layout.....</u>	507
<u>Section 745 Staking Concrete Pavement.....</u>	512
<u>Section 750 Staking Re-Surfacing Reference</u>	514
<u>Section 755 Staking Electrical Installations.....</u>	516
<u>Section 760 Staking Supplemental Control</u>	518
<u>Section 762 Slope Staking</u>	522
<u>Section 765 Staking Right of Way</u>	527
<u>Section 770 Cross Sections and Digital Terrain Models</u>	528
<u>Section 775 Staking Borrow Pits</u>	529
<u>Section 780 Constructing and Restoring Access Points</u>	530
<u>Section 785 Survey Monuments</u>	534
<u>Revise to change from registered to professional land surveyor. Update Figure 785-3 the example U.S. Public Land Survey Monument Record (DT1291).</u>	

PART 800 Materials Testing, Sampling, and Acceptance

Section 810 Materials - General	541
Revise to add subsection for aggregate gradations that are nonconforming.	
Section 813 Weighed Materials	548
Section 815 Density Testing	558
Section 820 Independent Assurance Program	566
Section 830 QMP - General	567
Section 832 QMP - Subgrade	577
Section 834 QMP - Aggregate	589
Revise guidance for engineer to consider directing or conducting additional placement tests.	
Section 835 QMP – Concrete	592
Revise cement ratio for concrete HES mixtures.	
Revise to add guidance to department's review of concrete mix design.	
Revise to add guidance for small quantities for structure aggregate moisture.	
Add subsection for material placement notification.	
Section 836 QMP - HMA.....	601
Section 838 Ride Quality	617
Section 840 Materials Sampling.....	625
Section 845 Materials Testing and Acceptance - General	630
Section 846 Materials Data Collection and Reporting Software System.....	647
Section 850 Materials Testing and Acceptance Guide	658
Revise information in bearing pads, bridge fabricated components, high strength bolts, piling, and steel products.	
Section 855 Materials Testing and Acceptance - Earthwork.....	684
Section 860 Materials Testing and Acceptance - Aggregates	687
Section 865 Asphaltic Binder Materials	714
Section 866 Asphalt Mixture Design	715
Section 870 Materials Testing and Acceptance - Concrete	725
Revise standard specification link for Portland cement.	
Revise contractor information if concrete mix designs share the same aggregate sources and update example.	
Revise information in admixtures subsection.	
Revise to add information for plant inspection template.	
Revise to add link to APL for approval process information.	
Revise information to add beam to subsection title. Add Figure 870-10 for example concrete cylinder testing machine graph printout.	
Revise subsection name to "Measurement and Calculations", add information regarding how many plates to measure, add scenario information and values in example tables.	
Revise to update contact name and phone number for department central laboratory.	
Section 871 Concrete Mixture Design	755
Revise to update standard specification links.	
Revise to add items to the list for concrete mix design reporting.	
Revise to add to descriptions for documentation to be reviewed.	
Revise to add table for cement mix modification change actions.	
Remove information for structures and add tables for supplementary cementitious material and admixture modification change actions.	
Revise to add table for water modification change actions.	
Revise to add table for aggregate modification change actions.	
Revise to add subsection for submitting mix modification information.	
Section 875 Materials Testing and Acceptance - Structures.....	761