

Table of Contents

PART 100 General Requirements and Covenants

Section 101 General Information, Definitions, and Terms	2
101.3 Add floor to definitions for structural component of bridges.	
Section 102 Bidding Requirements and Conditions	10
Section 103 Contract Award and Execution	15
Section 104 Scope of Work	17
Section 105 Control of the Work	28
105.13 Update claims process to add information relating to the dispute review board.	
Section 106 Control of Materials	34
106.3.4.1 Revise to add information and link for WisDOT's Manual of Test Procedures (MOTP). The MOTP includes WisDOT's test modified (WTM) and WisDOT's test procedure (WTP) methods.	
Global change throughout 2024 Standard Specifications to update select test method references to WisDOT's Manual of Test Procedures methods.	
Section 107 Legal Relations and Responsibility to the Public	40
Section 108 Prosecution and Progress	49
108.10.2.1 Revise to add reference, in paragraph (1), to the list of non-compensable delays in (3).	
Section 109 Measurement and Payment	61
109.1.4.3 Add option for electronic load tickets.	

PART 200 Earthwork

Section 201 Clearing and Grubbing	71
Section 202 Roadside Clearing	74
Section 203 Removing Old Culverts and Bridges	75
Section 204 Removing or Abandoning Miscellaneous Structures	80
Section 205 Roadway and Drainage Excavation	86
Section 206 Excavation for Structures	94
Section 207 Embankment	99
Section 208 Borrow	102
Section 209 Granular Backfill	105
Section 210 Structure Backfill	107
Section 211 Preparing the Foundation	109
Section 213 Finishing Roadway	112
Section 214 Obliterating Old Road	114

PART 300 Bases, Subbases, and Subgrade Aggregates

Section 301 Base, Subbase, and Subgrade Aggregate	117
Section 305 Dense-Graded Base	122
Section 310 Open-Graded Base	125
Section 311 Breaker Run	126
311.3 Remove paragraph (3) added in 2023 to not place recycled concrete breaker run within 75 feet of outfalls, pipes, culverts, and bodies of water.	
Section 312 Select Crushed Material	127
Section 313 Pit Run	128
Section 315 Asphaltic Base	129
Section 320 Concrete Base	130
320.3.1.2 Revise to add construction and public traffic to paragraph (1).	
Section 325 Pulverized and Re-laid Pavement	132
Section 330 Milled and Re-laid Pavement	133
Section 335 Rubblized Pavement	134
Section 340 Cracked and Sealed Pavement	136
Section 350 Subbase	137

Section 390 Base Patching	139
--	------------

PART 400 Pavements

Section 405 Coloring and Stamping Concrete	142
---	------------

Section 415 Concrete Pavement.....	145
---	------------

415 Move truck apron information from 416 to 415 Class I pavement section. Define allowable joint filler material for specific applications.
--

415.5 Add concrete truck apron to bid item range. Bid item moved from 416. Coloring concrete truck aprons will be paid seperately.
--

Section 416 Concrete Pavement – Repair and Replacement	157
---	------------

416 Rename section from Concrete Pavement - “Appurtenant Construction” to “Repair and Replacement”. Edit to include only concrete repair and replacement. Remove subsections and content relating to, concrete driveways, truck aprons, surface drains, and concrete rumble strips.

416.2 Update to the latest calcium chloride requirements according to ASHTO M144 for SHES concrete. Update tie bar and dowel bar information.

416.2.3 Add via ASP-6 for Nov 2022 LET. Reduced opening strength from 3000 psi to 2000 psi for concrete pavement repair and replacement. Revise and renumber section since ASP-6 to allow grade A concrete for pavement repair and replacement.

416.2.4 Revise to remove prescriptive requirements for SHES concrete mixes to accommodate variable closure windows.

416.3 Revise to clarify construction language for pavement repair and replacement. Move concrete driveway and truck apron subsection and renumber. Concrete driveways moved to 602.3.2 and concrete truck aprons moved to 415.5.
--

416.3.4 Update nomenclature from “existing” to “hardened” throughout section to clarify that department pays for tie bars drilled into existing concrete and recently hardened concrete for repairs and replacements.

416.3.5 Move surface drains from 416.3.5 to 602.3.5 and renumber.

416.3.6 Move concrete rumble strips from 416.3.6 to 602.3.6 and renumber.

416.3.6.1 Add information for placing concrete pavement for repair and replacement.

416.3.7 Revise to clarify SHES concrete pavement repair and replacement.
--

416.5.1 Revise to add information to drilled tie bar payment information.

Section 420 Diamond Grinding.....	161
--	------------

420.3.1 Revise to obtain prior approval from engineer when deeper grinding is necessary to conform to ride quality specification.

420.3.5 Revise to add information for continuous diamond grinding profile runs and to the information for exceptions to 740.
--

Section 450 General Requirements for Asphaltic Pavements	163
---	------------

450.5.1 Add information for inlay paving operations.
--

Section 455 Asphaltic Materials.....	171
---	------------

455.2.4.3 Add via ASP-6 for Nov. 2022 LET. Add information for non-tracking emulsified asphalt.

Section 460 Hot Mix Asphalt Pavement	175
---	------------

460.2.2.3 Add via ASP-6 for Nov. 2022 LET. Correct errata by adding US Standard equivalent sieves.
--

460.2.6 Add via ASP-6 for Nov. 2022 LET. Update procedure for recovered binder testing. Add link for DT form.

Section 465 Asphaltic Surface	189
--	------------

465.3.3 Revise names and bid item numbers for asphaltic rumble strips. Add options for asphaltic sinusoidal shoulder and centerline rumble strips.
--

Section 475 Seal Coat.....	191
-----------------------------------	------------

PART 500 Structures

Section 501 Concrete.....	194
----------------------------------	------------

501.2.4.1 Revise to clarify that any cement, regardless of type, must be from the APL.
--

501.2.6.2 Remove references to CMM 870 in (2).
--

501.2.7.4 Revise to allow ancillary structure foundations and concrete masonry seals to have 100 percent passing the 1-inch sieve. Revise Table 501-4 to remove individual AASHTO gradation requirements columns. This information is in the CMM.

501.3.7.1 Revise to define slump for concrete pavement repair and replacement.
--

Section 502 Concrete Bridges	212
---	------------

502.3.8	Revise name for subsection and throughout section to clarify.	
502.3.14	Revise to clean and prepare drilled holes according to manufacturer instructions.	
Section 503	Prestressed Concrete Members	233
503.3.2	Add pretensioned girder strand initial load values for 0.5-inch and 0.6-inch diameter strands.	
Section 504	Culverts, Retaining Walls, and Endwalls	239
Section 505	Steel Reinforcement	241
505.2.3	Revise to add test information for prestressed concrete girders.	
Section 506	Steel Bridges	246
506.2.6	Revise to remove heat resistance and compression set information for elastomeric bearings information from list in (2). Information is contained within AASHTO M251.	
506.2.8.3	Update test method reference for tensile strength and elongation to the current ASTM method.	
Section 507	Timber Structures	265
Section 509	Concrete Overlay and Structure Repair	272
509.3.9.4	Revise to add information for operating a finishing machine on completed lane.	
Section 511	Temporary Shoring	277
Section 512	Steel Sheet Piling	278
Section 513	Railing	280
Section 514	Floor Drains, Deck Drains, and Downspouts	283
Section 515	Steel Grid Floors	285
Section 516	Waterproofing	286
Section 517	Paint and Painting	288
Section 519	Brick Masonry and Concrete Brick or Block Masonry	297
Section 520	Pipe Culverts	299
520.2.6	Revise joint connections to add seals and clarify information.	
520.3.2.2	Revise to add information for rock excavation.	
520.3.3	Expand joint seal information and performance requirement.	
520.4.2	Add measurement information for rock excavation culvert pipe.	
520.5	Add bid item and payment information for culvert pipe rock excavation.	
Section 521	Corrugated Steel Culverts	305
521.4	Add rock excavation information to corrugated steel culvert pipe measurement and payment.	
Section 522	Reinforced Concrete Culverts	306
522.4	Add rock excavation information to reinforced concrete culverts measurement and payment.	
Section 524	Salvaged Culverts	307
524.4	Add rock excavation information to salvaged culverts measurement and payment.	
Section 525	Corrugated Aluminum Culverts	308
525.4	Add rock excavation information to corrugated aluminum culverts measurement and payment.	
Section 526	Temporary Structures	309
526.3.2	Revise design, plan requirement, and submittal information for temporary structures.	
Section 527	Structural Plate Pipe and Pipe Arches	311
Section 530	Corrugated Plastic Pipe Culverts	313
530.4	Add rock excavation information to corrugated plastic pipe culvert measurement and payment.	
Section 531	Ancillary Structure Foundations	314
531.2.1	Revise to remove "...for size No.1." requirement from second sentence of (2) since 501 changed to state that 100% passes the 1-inch sieve.	
Section 532	Ancillary Superstructures	317
532.2.1	Update ASTM test reference for "nuts for miscellaneous attachments".	
Section 550	Driven Piles	323
PART 600 Miscellaneous Construction		
Section 601	Concrete Curb and Gutter	330

601.5.1	Revise to clarify that payment includes foundation excavation, preparation, and backfill when there is no roadway excavation taking place.
601.5.2	Add crack repair provision for class II concrete. Information moved from 416.

Section 602 Concrete Sidewalks, Driveways, Loading Zones, Safety Islands, Surface Drains, Rumble Strips and Steps 333

602.1	Rename section and add driveways, surface drains, and rumble strips. Information moved from 416. Revise to allow HES concrete with engineer approval for concrete driveways.
602.3.2	Revise to include driveway construction. Renumber sub-section. Revise to require preplacement thickness measurements for sidewalk and driveways. Revise and reorganize jointing information. Revise sidewalk joint interval. Add opening strength information for sidewalks and driveways.
602.3.5	Add information for surface drains. Information moved from 416.3.5.
602.3.6	Revise to include centerline and edge line concrete rumble strips. Information moved from SS 416.3.
602.4	Revise and add measurement information for concrete driveway, concrete surface drains, and concrete rumble strips. Information moved from 416.
602.5.1	Revise and add information to payment section for concrete driveway, concrete surface drains, and concrete rumble strips. Information moved from 416.

Section 603 Concrete Barrier 339

Section 604 Slope Paving 343

Section 606 Riprap 345

Section 608 Storm Sewer 347

608.2	Add or revise select information for storm sewer pipe materials. Add information for seals and joint connections.
608.3.4.1	Revise and add information for storm sewer joints.
608.5.2	Add payment information for joint seals, wraps, and couplers.

Section 611 Catch Basins, Manholes, and Inlets 353

Section 612 Underdrains 356

Section 614 Semi-rigid Barrier Systems and End Treatments 360

614.2.1	Remove former paragraph (3) relating to finishing zinc oxide paint and renumber remaining items.
614.3.1	Revise to add ASTM test method for paint used for galvanization repair.
614.3.2.3	Add information relating to reflective panel on energy absorbing terminals.
614.4	Add measurement and payment information for reflective panel on energy absorbing terminals.

Section 615 Rustic Timber Items and Historical Markers 368

Section 616 Property and Right-of-Way Fence 370

Section 618 Maintenance and Repair of Haul Roads 376

Section 619 Mobilization 377

Section 620 Concrete Corrugated Median and Concrete Median Nose 378

Section 621 Landmark Reference Monuments 379

Section 623 Dust Control Surface Treatment 381

Section 624 Water 382

Section 625 Topsoil and Salvaged Topsoil 383

Section 626 Peat Humus 385

Section 627 Mulching 386

Section 628 Erosion Control 388

628.3.2	Revise information for entrenching erosion mat.
628.3.9	Revise information for polyethylene sheeting.
628.4	Revise measurement and payment information for polyethylene sheeting.

Section 629 Fertilizer and Agricultural Limestone 399

Section 630 Seeding 401

Section 631 Sodding 407

Section 632 Furnishing and Planting Plant Materials 409

Section 633 Delineators and Markers 418

633.3.6	Revise to remove the word white from second sentence.
---------	---

Section 634 Wood and Tubular Steel Sign Posts 421

Section 635 Structural Steel Sign Supports 423

Section 637 Signing	424
Section 638 State Owned Signs and Supports	431
Section 639 Drilling Wells	433
Section 642 Field Facilities	438
Section 643 Traffic Control	441
643.3.4.1 Add to place an orange painted lathe in post mounted sign base stub(s) when not in use.	
Section 644 Temporary Pedestrian Facilities	448
644.5 Add to payment information for temporary pedestrian detectable warning fields.	
Section 645 Geosynthetics	450
Section 646 Pavement Marking	457
646.3.1 Revise to state that cold weather marking within rumble strip may remain.	
646.3.2.3 Revise to increase groove depth and add information for black epoxy grooving.	
646.3.2.4 Rename from "Contrast Marking" to "Black Epoxy". Change from an oreo pattern to a black lag pattern.	
646.4 Revise measurement for marking block crosswalks.	
646.5.1 Revise to add pavement marking items for 6-inch and 10-inch.	
Section 648 Locating No-passing Zones	463
Section 650 Construction Staking	465
Section 651 General Requirements for Electrical Work	470
Section 652 Electrical Conduit	472
Section 653 Pull Boxes and Junction Boxes	475
Section 654 Bases	476
Section 655 Electrical Wiring	477
Section 656 Electrical Service	483
Section 657 Poles, Arms, Standards, and Bases	486
Section 658 Traffic Signals	490
Section 659 Lighting	492
Section 660 High Mast Lighting Lowering Assemblies	494
Section 661 Temporary Traffic Signals and Temporary Ramp Meters	496
Section 670 General Requirements for Intelligent Transportation Systems	502
Section 671 Intelligent Transportation Systems - Conduit	504
Section 673 Communication Vaults	506
Section 674 Intelligent Transportation Systems - Cable	507
Section 675 Controllers and Detectors	510
Section 677 Cameras	512
Section 678 Communication Systems	514
Section 690 Sawing	517

PART 700 Quality Management Program

Section 701 General QMP Requirements	519
701.1.2 Revise to update requirement for contractor control plans and charts. Revise to break out requirements for handwritten testing documents and electronic reporting.	
Section 710 General Concrete QMP	523
710.4 Removed AASHTO test from (2), item 4 and incorporated it in Table 701-1. Clarified cement range when department requires HES concrete and when HES is used for contract convenience.	
710.5.6.3 Revise to provide clarification to department structure aggregate testing frequency.	
710.5.7.1 Revise to add options for optimized aggregate gradation corrective action.	
Section 715 QMP Concrete Pavement, Cast-in-Place Barrier and Structures	528
715.2.2.1 Revise to reduce number of cylinders and beams from trial batches. Changed requirement from 5 to 3.	
715.3.1 Revise errata to change word from "cylinders" to "specimens". Remove former subsection for super air meter (SAM) shadow testing. Revise errata to change word from "compressive" to "concrete".	
715.5.1 Add via ASP 6 for November 2022 LET.	

715.5.2 Add via ASP 6 for November 2022 LET. Correct errata in structures and cast-in place barriers from "Pay Adjustment (dollar per square yard)" to "Pay Adjustment (dollars per cubic yard)".

Section 716 QMP Ancillary Concrete 534

716.2.1 Clarified department testing requirements for Class II concrete.

Section 730 QMP Base Aggregate 536

730.3.4.1 Revise to clarify contractor QC testing for small quantities.

Section 740 QMP Ride 540

740.1 Revise final riding profile location information.

740.3.2 Revise to clarify profile run marking information and ramp and turn lane information.

Bid Items 545

100 Bid Items 545

200 Bid Items 545

300 Bid Items 546

400 Bid Items 547

415.2010 Add new bid item for Concrete Truck Apron. Item moved from 416.

416.0160 Retire Concrete Driveway bid items from 416. Items moved to 602.

416.0512 Retire Concrete Truck Apron bid item. Item moved to 415.

416.1010 Retire Concrete Surface Drain items from 416. Items moved to 602.

416.1110 Retire Concrete Rumble Strip bid items from 416. Items moved to 602.

460.6423 Add HMA Pavement 3 MT 58-28 H bid item.

460.6623 Add HMA Pavement 3 MT 58-28 V bid item.

465.0400 Retire Asphaltic Rumble Strip bid items. Move to 465.0510.

465.0510 Revise Asphaltic Rumble Strip bid item numbers and naming.

500 Bid Items 550

520.0005 Add Culvert Pipe Rock Excavation bid item.

600 Bid Items 564

602.0810 Add Concrete Driveway bid item numbers. Moved from 416.

602.3010 Add Concrete Surface Drain bid item numbers. Moved from 416.

602.3210 Add Concrete Rumble Strips bid item numbers. Moved from 416.

611.0655 Add bid item number for Inlet Cover Type V-B.

614.0953 Add Replacing EAT Reflective Panel bid item.

643.3165 Add Temporary Marking Line 6-inch bid item numbers.

643.3265 Add Temporary Marking Line 10-inch bid item numbers.

643.3305 Add Temporary Marking Crosswalk bid items not listed in 2023 Standard Specs

643.3980 Add Temporary Marking Removable Mask Out Tape 8-inch and 12-inch bid items.

646.2005 Add Marking Line 6-inch bid items.

646.4005 Add Marking Line 10-inch bid items.

646.4705 Add Marking Line Same Day 6-inch and 10-inch bid items.

646.6466 Add Cold Weather Marking Epoxy 6-inch and 10-inch bid items.

646.9002 Add Marking Removal Line 6-inch and 10-inch bid items.

700 Bid Items 584

Appendix 585

Conversion Table U.S. Standard Measure to SI Metric 585

Standard Sieve Sizes 586

Bid Item Unit Abbreviations 586