Section 8-10 Materials - General
8-10.1 Control of Materials
8-10.2 Approval of Materials
8-10.3 Quality Management Program
8-10.4 Nonconforming Materials
8-10.5 Noncontractual Price Reduction Guidelines

Section 8-13 Weighed Materials
8-13.1 General
8-13.2 Truck Scales
8-13.3 Conveyor Scales
8-13.4 Storage Hopper Scales
8-13.5 Plant Scales
8-13.6 Loader Scales

Section 8-15 Density Testing
8-15.1 General
8-15.2 Nuclear Gauges
8-15.3 Nuclear Density Gauge Safety
8-15.4 Annual Bureau of Technical Services Gauge Block Calibration Procedures
8-15.5 Nuclear Density Testing HMA
8-15.6 Project Nuclear Density Testing
8-15.7 QMP QC and QV Nuclear Density Gauge Comparison
8-15.8 HMA QMP Reference Site Monitoring
8-15.9 Non QMP HMA Nuclear Density Reference Site Monitoring
8-15.10 Use of Nuclear Moisture/Density Gauges on HMA
8-15.11 Procedure for Determining Limits of Unacceptable Material
8-15.12 Soils Reference Site Monitoring
8-15.13 Test Strip Requirements for Stone Matrix Asphalt (SMA) and Coarse (Gap-graded) mixes
8-15.14 Reports Forms
8-15.15 Acceptance and Incentive/Disincentive
8-15.16 Density Data Submittal

Section 8-20 Independent Assurance Program
8-20.1 General

Section 8-30 QMP - General
8-30.1 Scope
8-30.2 Quality Management Program
8-30.3 Highway Technician Certification Program (HTCP)
8-30.4 Verification and Quality Assurance
8-30.5 Contractor Quality Control
8-30.6 Quality Control Laboratory and Equipment
8-30.7 Quality Control Start Up Activities
8-30.8 Inspection
8-30.9 Sampling and Testing
8-30.10 Corrective Action
8-30.11 Testing Precision
8-30.12 Testing Precision
8-30.13 ... Contractor Non-Performance of QMP Sampling & Testing

Section 8-32 QMP - Subgrade
8-32.1 ..... Quality Management Plan Description
8-32.2 ..... Contract Quality Control Plan
8-32.3 ..... Pre-Startup Activities
8-32.4 ..... Excavations Below Subgrade
8-32.5 ..... Field Density/Moisture Control Testing
8-32.6 ..... Documentation
8-32.7 ..... Corrective Action
8-32.8 ..... Quality Assurance Aspects for the Contractor

Section 8-34 QMP - Aggregate
8-34.1 ..... Sampling and Testing
8-34.2 ..... Department Testing
8-34.3 ..... Dispute Resolution
8-34.4 ..... Aggregate for Concrete Pavement
Attachment 1......... Pooled t-Test Procedure

Section 8-35 QMP - Concrete
8-35.1 ..... Concrete Pavement and Concrete Structures
8-35.2 ..... Ancillary Concrete

Section 8-36 QMP - HMA
8-36.1 ..... General
8-36.2 ..... Personnel Requirements (Through HTCP)
8-36.3 ..... Laboratory Requirements
8-36.4 ..... Sampling Hot Mix Asphalt
8-36.5 ..... Sample Identification
8-36.6 ..... Required Testing and Calculated Properties
8-36.7 ..... HMA Quality Management Program Documentation
8-36.8 ..... Documentation
8-36.9 ..... Quality Verification Program
8-36.10 ... Example Worksheet

Section 8-38 Ride Quality
8-38.1 ..... Profile Testing for Ride Quality
8-38.2 ..... Equipment and Personnel
8-38.3 ..... Testing
8-38.4 ..... Pavement Categories
8-38.5 ..... Localized Roughness
8-38.6 ..... Segment IRI Pay Adjustments
8-38.7 ..... Documentation and Reporting
8-38.8 ..... Diamond Grinding

Section 8-40 Materials Sampling
8-40.1 ..... General
8-40.2 ..... Sampling Responsibility
8-40.3 ..... Personnel
8-40.4 ..... Selection of Sampling Method
8-40.5 ..... Submittal of Samples to Central Materials Laboratory
8-40.6 ..... Source of Materials Report, Department Form DT1349
8-40.7 ..... Material Specifications Transition Period

Section 8-45 Materials Testing and Acceptance - General
8-45.1 ..... Material Testing and Acceptance - General
8-45.2 ..... Material Requirement References
8-45.3 ..... Approval Methods
8-45.4 ..... Material Inspection
8-45.5 Documentation - General
Attachment 1 Materials Documentation Location Guide

Section 8-46 Materials Data Collection and Reporting Software System
8-46.1 General
8-46.2 System Component Overview
8-46.3 Electronic Reporting System Operations
8-46.4 System Version Updates
8-46.5 Troubleshooting System Malfunctions or Inconsistencies
8-46.6 Support and Contacts List
8-46.7 Top FAQs
8-46.8 Appendix

Section 8-50 Materials Testing and Acceptance Guide
Exhibit 1 Materials Testing and Acceptance Guide

Section 8-55 Materials Testing and Acceptance - Earthwork
8-55.1 Field Test Procedures for Moisture-Density Relationship of Gravelly Soils
8-55.2 Field Determination of Density for Embankments

Section 8-60 Materials Testing and Acceptance - Aggregates
8-60.1 General
8-60.2 Aggregate Source Approval
8-60.3 Aggregate Acceptance
8-60.4 Marginal Source Testing
8-60.5 Sampling Aggregates
8-60.6 Reducing Samples of Aggregate to Test Size
8-60.7 Aggregate Particle Shape
8-60.8 Field Determination of Moisture Content of Fine and Coarse Aggregates
8-60.9 Field Test Procedures for Sieve Analysis of Aggregates
8-60.10 Aggregate Acceptance Tests
8-60.11 Field Determination of Density for Aggregate Courses
8-60.12 Field Density Testing by the Sand Cone Method Part 1
8-60.13 Field Density Testing by the Sand Cone Method Part 2

Section 8-65 Asphaltic Binder Materials
8-65.1 General
8-65.2 Sampling Asphaltic Materials
8-65.3 Certification Method of Acceptance for Asphalt Binders

Section 8-66 Asphalt Mixture Design
8-66.1 Asphaltic Mixture Design
8-66.2 Laboratory Standard Method of Asphaltic Mix Design (previously called WisDOT Test Method 1559)
8-66.3 Mixture Design Life
8-66.4 Amended JMF Reports and JMF Report Reviews
8-66.5 Non Traditional or Non-Standard Mixture Design Reports

Section 8-70 Materials Testing and Acceptance - Concrete
8-70.1 General
8-70.2 Concrete Mixtures and Materials
8-70.3 Concrete Production and Equipment
8-70.4 Concrete Sampling and Testing
8-70.5 Acceptance
Attachment 1 Field Check Test of Air Meters Using a Calibration Canister
Attachment 2 Field Determination of Concrete Pavement Thickness by Magnetic Image Tomography (MIT Scan)
Attachment 3 Certification Method of Acceptance for Portland Cement
Attachment 4 Characterization of the Air-Void System of Freshly Mixed Concrete by the Sequential Pressure Method (Super Air Meter (SAM))
Section 8-75  Materials Testing and Acceptance - Structures

8-75.1.....Plant Certification Program for Fabrication of Prestressed Concrete Members
8-75.2.....Approved Fabricators for Steel Bridge Primary Members
8-75.3.....Approved Fabricators for Steel Sign Bridges and Overhead Sign Supports
8-75.4.....Approved Fabricators for Fabricated Bridge Components
8-75.5.....Pile Driving Data, Form DT1924
8-75.6.....Piling Record, Form DT1315
8-75.7.....Bridge Inventory Report, DT 2006 and Bridge Inspection Report, DT 2007 and DT 2008

Attachment 1.........Department Plant Certification Program Requirements
Attachment 2.........Schedule of Tests
Attachment 3.........Plant Inspection Fabrication Forms