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R 92-18 (2026)	Evaluating the Elastic Behavior of Asphalt Binders Using the Multiple Stress Creep Recovery (MSCR) Test
R 99-21 (2025)	Troubleshooting Asphalt Specimen Volumetric Differences between Superpave Gyratory Compactors (SCGs) Used in the Design and the Field Management of Superpave Mixtures
R 102-22 (2026)	Emulsified Asphalt Chip Seal Design
R 103-22 (2026)	Microsurfacing Design
R 104-22 (2026)	Slurry Seal Design
R 105-22 (2026)	Emulsified Asphalt Fog Seal Design
R 112-22 (2026)	Asphalt Tack Coat Design
R 113-26	Materials Selection and Mixture Design of Permeable Friction Courses (PFCs)
R 114-22 (2026)	Design Considerations When Using Reclaimed Asphalt Shingles (RAS) in Asphalt Mixtures
R 116-23	Grading or Verifying the Sealant Grade (SG) of a Hot-Poured Asphalt Crack Sealant
R 117-23	Emulsified Asphalt Content of Cold Recycled Mixture Designs
R 118-23	Characterizing the Relaxation Behavior of Asphalt Binders Using the Delta T_c (ΔT_c) Parameter
R 121-24	Long-Term Laboratory Conditioning of Asphalt Mixtures
R 128-25	Determination of Optimum Asphalt Content of Cold Recycled Mixture with Foamed Asphalt
R 129-25	Preparation of Indirect Tension Performance Test Specimens
R 130-25	Developing Dynamic Modulus Master Curves for Asphalt Mixtures Using the Indirect Tension Testing Method
R 131-25	Preparation of Small Cylindrical Performance Test Specimens Using the Superpave Gyratory Compactor (SGC) or Field Cores
R 132-25	Balanced Design of Asphalt Mixtures
	Box Culvert, Culvert Pipe, and Drain Tile
M 36M/M 36-24	Corrugated Steel Pipe, Metallic-Coated, for Sewers and Drains

Standard Number	Title
M 86M/M 86-23	Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe
M 167M/M 167-26	Corrugated Steel Structural Plate, Zinc-Coated, for Field-Bolted Pipe, Pipe-Arches, and Arches
M 170-24	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
M 170M-24	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe [Metric]
M 175M/M 175-23	Perforated Concrete Pipe
M 176M/M 176-23	Porous Concrete Pipe
M 178M/M 178-23	Concrete Drain Tile
M 190-22 (2026)	Asphalt-Coated Corrugated Metal Culvert Pipe and Pipe-Arches
M 196M/M 196-24	Corrugated Aluminum Pipe for Sewers and Drains
M 197M/M 197-24	Aluminum Alloy Sheet for Corrugated Aluminum Pipe
M 199M/M 199-24	Precast Reinforced Concrete Manhole Sections
M 206M/M 206-24	Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe
M 207M/M 207-24	Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe
M 218-03 (2025)	Steel Sheet, Zinc-Coated (Galvanized), for Corrugated Steel Pipe
M 219M/M 219-25	Corrugated Aluminum Alloy Structural Plate for Field-Bolted Pipe, Pipe-Arches, and Arches
M 242M/M 242-23	Reinforced Concrete D-Load Culvert, Storm Drain, and Sewer Pipe
M 243-22 (2026)	Field-Applied Coating of Corrugated Metal Structural Plate for Pipe, Pipe-Arches, and Arches
M 245M/M 245-24	Corrugated Steel Pipe, Polymer-Precoated, for Sewers and Drains
M 246M/M 246-25	Steel Sheet, Metallic-Coated and Polymer-Precoated, for Corrugated Steel Pipe
M 252-25	Corrugated Polyethylene Pipe, 75- to 250-mm (3- to 10-in.) Diameter
M 259-24	Precast Reinforced Concrete Monolithic Box Sections for Culverts, Storm Drains, and Sewers According to the *AASHTO LRFD Bridge Design Specifications*
M 262-23	Concrete Pipe and Related Products
M 274-87 (2025)	Steel Sheet, Aluminum-Coated (Type 2), for Corrugated Steel Pipe
M 278-22 (2026)	Class PS46 Poly(Vinyl Chloride) (PVC) Pipe
M 289-91 (2025)	Aluminum-Zinc Alloy Coated Sheet Steel for Corrugated Steel Pipe
M 294-25	Corrugated Polyethylene Pipe, 300- to 1500-mm (12- to 60-in.) Diameter
M 304-25	Poly(Vinyl Chloride) (PVC) Profile Wall Drain Pipe and Fittings Based on Controlled Inside Diameter

Standard Number	Title
M 306-10 (2023)	Drainage, Sewer, Utility, and Related Castings
M 326-18 (2026)	Polyethylene (PE) Liner Pipe, 300- to 1600-mm Diameter, Based on Controlled Outside Diameter
M 330-25	Corrugated Polypropylene Pipe, 300- to 1500-mm (12- to 60-in.) Diameter
M 335-19 (2023)	Steel-Reinforced Polyethylene (PE) Ribbed Pipe, 300- to 1500-mm (12- to 60-in.) Diameter
M 337-21 (2025)	Fiber-Reinforced Polymer Composite Materials for Highway and Bridge Structures
R 63-13 (2025)	Solid Wall High-Density Polyethylene (HDPE) Conduit for Non-Pressure Applications Used for the Protection of Power and Telecommunications Cables
R 73-16 (2024)	Evaluation of Precast Concrete Drainage Products
R 82-25	Pipe Joint Selection for Highway Culvert and Storm Drains
R 93-19 (2023)	Service Life Determination of Corrugated HDPE Pipes Manufactured with Recycled Content
	Bridge and Pavement Preservation
M 345-24	Materials for Emulsified Asphalt Scrub Seal
M 346-22 (2026)	Materials for Ultrathin Bonded Wearing Course
M 347-22 (2026)	Materials for Full-Depth Reclamation Mixtures with Emulsified Asphalt
R 108-22 (2026)	Ultrathin Bonded Wearing Course Design
R 109-22 (2026)	Emulsified Asphalt Content of Full-Depth Reclamation Mixture Design
	Concrete, Curing Materials, and Admixtures
M 154M/M 154-26	Air-Entraining Admixtures for Concrete
M 157-26	Ready-Mixed Concrete
M 182-05 (2025)	Burlap Cloth Made from Jute or Kenaf and Cotton Mats
M 194M/M 194-26	Chemical Admixtures for Concrete
M 205M/M 205-23	Molds for Forming Concrete Test Cylinders Vertically
M 224-23	Protective Sealers for Portland Cement Concrete
M 233-86 (2023)	Boiled Linseed Oil Mixture for Treatment of Portland Cement Concrete
M 241M/M 241-26	Concrete Made by Volumetric Batching and Continuous Mixing
M 295-26	Coal Ash and Raw or Calcined Natural Pozzolan for Use in Concrete
M 302-26	Slag Cement for Use in Concrete and Mortars
M 363M/M 363-26	Supplementary Cementitious Material for Use in Concrete
R 39M/R 39-26	Casting and Curing Concrete Test Specimens in the Laboratory

Standard Number	Title
R 60M/R 60-23	Sampling Freshly Mixed Concrete
R 64-26	Sampling and Fabrication of 50-mm (2-in.) Cube Specimens Using Grout (Non-Shrink) or Mortar
R 70M/R 70-23	Use of Apparatus for the Determination of Length Change of Hardened Cement Paste, Mortar, and Concrete
R 72-22 (2026)	Match Curing of Concrete Test Specimens
R 80-26	Determining the Reactivity of Concrete Aggregates and Selecting Appropriate Measures for Preventing Deleterious Expansion in New Concrete Construction
R 81-17 (2025)	Static Segregation of Hardened Self-Consolidating Concrete (SCC) Cylinders
R 100M/R 100-26	Casting and Curing Concrete Strength Test Specimens in the Field
R 101-26	Developing Performance Engineered Concrete Pavement Mixtures
R 119M/R 119-24	Grinding the Ends of Cylindrical Concrete Specimens
R 122-25	Quality Assurance of Concrete
	Environmental Tests
R 23-99 (2026)	Chemical, Biological, and Physical Analysis of Water
R 24-99 (2026)	Collection and Preservation of Water Samples
	Guardrail and Fencing
M 180-25	Steel Components for Highway Guardrail
M 181-10 (2023)	Chain-Link Fence
M 269-96 (2026)	Turnbuckles and Shackles
M 279-25	Metallic-Coated, Steel Woven Wire Fence Fabric
M 280-24	Metallic-Coated (Carbon) Steel Barbed Wire
M 281-24	Steel Fence Posts, Hot-Wrought
	Geosynthetics and Erosion Control Products
M 288M/M 288-24 (2026)	Geosynthetics for Highway Applications
M 355M/M 355-24	Geosynthetic Pavement Interlayers for Highway Applications
M 356M/M 356-25	Nonwoven Geotextile Bond Breakers for Highway Applications
M 360M/M 360-26	Geocomposite Drains for Highway Applications
M 361M/M 361-26	Temporary Rolled Erosion Control Products for Highway Applications
R 50-09 (2026)	Geosynthetic Reinforcement of the Aggregate Base Course of Flexible Pavement Structures

Standard Number	Title
R 51-22 (2026)	Compost for Erosion/Sediment Control (Filter Berms and Filter Socks)
R 52-22 (2026)	Compost for Erosion/Sediment Control (Compost Blankets)
R 69-20 (2024)	Determination of Long-Term Strength for Geosynthetic Reinforcement
	Hydraulic Cement
M 85-24	Portland Cement
M 240M/M 240-26	Blended Hydraulic Cement
M 307-22 (2026)	Silica Fume Used in Cementitious Mixtures
M 321-04 (2025)	High-Reactivity Pozzolans for Use in Hydraulic-Cement Concrete, Mortar, and Grout
M 359-26	Raw or Calcined Natural Pozzolan for Use in Concrete
R 71-26	Sampling and Amount of Testing of Hydraulic Cement
R 115-23	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency
	Joint Filler and Asphalt Plank
M 33M/M 33-22 (2026)	Preformed Expansion Joint Filler for Concrete (Bituminous Type)
M 153-20 (2024)	Preformed Sponge Rubber, Cork, and Recycled Rubber Expansion Joint Fillers for Concrete Paving and Structural Construction
M 213-25	Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction (Nonextruding and Resilient Asphalt Types)
M 251M/M 251-26	Plain and Laminated Elastomeric Bridge Bearings
M 297-10 (2025)	Preformed Polychloroprene Elastomeric Joint Seals for Bridges
R 95-22 (2026)	Accelerated Aging of Hot-Poured Asphalt Crack Sealant Using a Vacuum Oven
	Metallic Materials for Bridges
M 102M/M 102-25	Steel Forgings, Carbon and Alloy, for General Industrial Use
M 103M/M 103-19 (2023)	Steel Castings, Carbon, for General Application
M 105-23	Gray Iron Castings
M 111M/M 111-26	Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
M 163M/M 163-24	Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application
M 169-25	Steel Bars, Carbon and Alloy, Cold-Finished
M 202M/M 202-25	Steel Sheet Piling
M 227M/M 227-25	Steel Bars, Carbon, Merchant Quality, Mechanical Properties

Standard Number	Title
M 232M/M 232-25	Zinc Coating (Hot-Dip) on Iron and Steel Hardware
M 255M/M 255-19 (2023)	Steel Bars, Carbon, Hot-Wrought, Special Quality, Mechanical Properties
M 270M/M 270-26	Structural Steel for Bridges
M 277-06 (2023)	Wire Rope and Sockets for Movable Bridges
M 285M/M 285-24	Castings, Iron-Chromium-Nickel, Corrosion Resistant, for Severe Service
M 292M/M 292-26	Carbon Steel, Alloy Steel, and Stainless Steel Nuts for Bolts for High-Pressure or High-Temperature Service, or Both
M 314-90 (2026)	Steel Anchor Bolts
M 334M/M 334-17 (2025)	Uncoated, Corrosion-Resistant, Deformed and Plain Chromium Alloyed, Billet-Steel Bars for Concrete Reinforcement and Dowels
M 336M/M 336-25	Steel Wire and Welded Wire, Plain and Deformed, for Concrete Reinforcement
	Miscellaneous
M 143-26	Sodium Chloride
M 144-26	Calcium Chloride
M 230-07 (2024)	Expanded and Extruded Foam Board (Polystyrene)
M 235M/M 235-24	Epoxy Resin Adhesives
M 333-16 (2024)	Detectable Warning Surfaces
M 351M/M 351-26	Cotton Duck Fabric Bridge Bearings
R 8-96 (2023)	Evaluation of Transportation-Related Earthborne Vibrations
R 10-22 (2026)	Definition of Terms Related to Quality and Statistics as Used in Highway Construction
R 25-22 (2026)	Technician Training and Certification Programs
R 34-03 (2026)	Evaluating Deicing Chemicals
R 44-07 (2026)	Independent Assurance (IA) Programs
R 89-18 (2026)	Accreditation Bodies Operating in the Fields of Construction Materials Testing and Inspection
R 110-22 (2026)	Continuous Thermal Profile of Asphalt Mixture Construction
R 111-22 (2026)	Intelligent Compaction for Embankment and Asphalt Pavement Applications
	Painting, Traffic Marking, and Signing
M 237-24	Epoxy Resin Adhesives for Bonding Traffic Markers to Hardened Portland Cement and Asphalt Concrete
M 247-26	Glass Beads Used in Pavement Markings

Standard Number	Title
M 249-12 (2024)	White and Yellow Reflective Thermoplastic Striping Material (Solid Form)
M 268-22 (2026)	Retroreflective Sheeting for Flat and Vertical Traffic Control Applications
M 300-22 (2026)	Inorganic Zinc-Rich Primer
M 348-26	Waterborne White and Yellow Traffic Paints
R 31-09 (2023)	Evaluation of Protective Coating Systems for Structural Steel
R 98-20 (2024)	Determination of Size and Shape of Glass Beads Used in Traffic Markings by Means of Computerized Optical Method
	Pavement Surface Characteristics
M 328-14 (2026)	Inertial Profiler
M 331-17 (2025)	Smoothness of Pavement in Weigh-in-Motion (WIM) Systems
M 344-22 (2026)	Materials for Sand Seals
M 353-24	Thin Overlay Treatments Using a Binder Resin System and Aggregate for Concrete Surfaces
M 354-24	High Friction Surface Treatment for Asphalt and Concrete Pavements Using Calcined Bauxite
R 36-21 (2025)	Evaluating Faulting of Concrete Pavements
R 37-04 (2026)	Application of Ground Penetrating Radar (GPR) to Highways
R 40-10 (2026)	Measuring Pavement Profile Using a Rod and Level
R 43-13 (2025)	Quantifying Roughness of Pavements
R 54-14 (2026)	Accepting Pavement Ride Quality When Measured Using Inertial Profiling Systems
R 56-25	Certification of Inertial Profiling Systems
R 57-14 (2026)	Operating Inertial Profiling Systems
R 85-18 (2026)	Quantifying Cracks in Asphalt Pavement Surfaces from Collected Pavement Images Utilizing Automated Methods
R 86-18 (2026)	Collecting Images of Pavement Surfaces for Distress Detection
R 87-18 (2026)	Determining Pavement Deformation Parameters and Cross Slope from Collected Transverse Profiles
R 88-18 (2026)	Collecting the Transverse Pavement Profile
R 106-22 (2026)	Sand Seal Design
R 107-22 (2026)	Emulsified Asphalt Scrub Seal Design
	Quality Assurance
R 9-26	Acceptance Sampling Plans for Highway Construction

Standard Number	Title
R 18-26	Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories
R 20-99 (2025)	Procedures for Measuring Highway Noise
R 38-10 (2026)	Quality Assurance of Standard Manufactured Materials
R 42-06 (2024)	Developing a Quality Assurance Plan for Hot Mix Asphalt (HMA)
R 61-12 (2024)	Establishing Requirements for Equipment Calibrations, Standardizations, and Checks
R 65-14 (2026)	Evaluating the Engineering and Environmental Suitability of Recycled Materials
R 94-19 (2023)	Quality Assurance, Job Site Quality Control, and Reapplication of Protective Sealers for Portland Cement Concrete
R 123-25	Quality Assurance of Cold Central Plant Recycling
R 124-25	Quality Assurance of Cold In-Place Recycling
	Reinforcing Steel and Wire Rope
M 30-25	Metallic-Coated Steel Wire Rope and Fittings for Highway Guardrail
M 31M/M 31-26	Deformed and Plain Carbon and Low-Alloy Steel Bars for Concrete Reinforcement
M 54M/M 54-26	Welded Deformed Steel Bar Mats for Concrete Reinforcement
M 203M/M 203-25	Steel Strand, Low-Relaxation Uncoated Seven-Wire for Concrete Reinforcement
M 204M/M 204-24	Stress-Relieved Steel Wire for Prestressed Concrete
M 254-06 (2023)	Corrosion-Resistant Coated Dowel Bars
M 275M/M 275-20 (2024)	High-Strength Steel Bars for Prestressing Concrete
M 322M/M 322-26	Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement
M 329M/M 329-11 (2023)	Stainless Clad Deformed and Plain Round Steel Bars for Concrete Reinforcement
	Soils and Stabilization
M 57-80 (2025)	*Discontinued*—Materials for Embankments and Subgrades
M 145-91 (2025)	Classification of Soils and Soil–Aggregate Mixtures for Highway Construction Purposes
M 146-91 (2025)	Terms Relating to Subgrade, Soil–Aggregate, and Fill Materials
M 147-17 (2025)	Materials for Aggregate and Soil–Aggregate Subbase, Base, and Surface Courses
M 216-22 (2026)	Quicklime and Hydrated Lime for Soil Stabilization
M 318-02 (2023)	Glass Cullet Use for Soil–Aggregate Base Course
M 319-02 (2023)	Reclaimed Concrete Aggregate for Unbound Soil–Aggregate Base Course

Standard Number	Title
R 13-22 (2026)	Conducting Geotechnical Subsurface Investigations
R 21-96 (2023)	Drilling for Subsurface Investigations—Unexpectedly Encountering Suspected Hazardous Material
R 22-97 (2023)	Decommissioning Geotechnical Exploratory Boreholes
R 27-01 (2023)	Assessment of Corrosion of Steel Piling for Non-Marine Applications
R 58-22 (2026)	Dry Preparation of Disturbed Soil and Soil–Aggregate Samples for Test
R 74-22 (2026)	Wet Preparation of Disturbed Soil Samples for Test
R 75-26	Developing a Family of Curves Using Soil Moisture–Density Relations
R 120-24	Preparation of Test Specimens Using the Plastic Mold Compaction Device
R 125-25	Diamond Core Drilling for Site Investigation
R 126-25	Progressing Auger Borings for Geotechnical Explorations
R 135M/R 135-26	Thin-Walled Tube Sampling of Fine-Grained Soils
	Testing Equipment
M 152M/M 152-25	Flow Table for Use in Tests of Hydraulic Cement
M 201-25	Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes
M 231-95 (2023)	Weighing Devices Used in the Testing of Materials
M 261-22 (2026)	Rib-Tread Standard Tire for Special-Purpose Pavement Frictional-Property Tests
M 286-22 (2026)	Smooth-Tread Standard Tire for Special-Purpose Pavement Frictional-Property Tests
M 339M/M 339-26	Thermometers Used in the Testing of Construction Materials
R 32-20 (2024)	Calibrating the Load Cell and Deflection Sensors for a Falling Weight Deflectometer
R 33-20 (2024)	Calibrating the Reference Load Cell Used for Reference Calibrations for a Falling Weight Deflectometer
R 45-13 (2025)	Installing, Monitoring, and Processing Data of the Traveling Type Slope Inclinometer
	Timber and Preservatives
M 133-23	Preservatives and Pressure Treatment Processes for Timber
M 168-07 (2024)	Wood Products

LIST OF TECHNICAL CHANGES—PART 1

The balloted technical changes listed below are also indicated in the specifications by a change bar in the left margin. Unballoted editorial changes do not receive the change bar in reconformed standards; however, the subheader line below the designation number will indicate if the standard has been editorially revised.

Release: 2026

Designation Number	Title	TS	Technical Changes
M 6-13 (2026)	Fine Aggregate for Hydraulic Cement Concrete	1c	Reconfirmed for 2026 publication.
M 29-12 (2024)	Fine Aggregate for Asphalt Mixtures	1c	Editorially revised in 2026 to add a 2022 reconfirmation year to the ASTM designation; no revisions were made in the body of the standard.
M 31M/M 31-26	Deformed and Plain Carbon and Low-Alloy Steel Bars for Concrete Reinforcement	4f	Revised for equivalency with ASTM A615-A615M. Added Section 1.6 on notes and endnotes and Section 3.1.3 definition of "lot." Deleted Note 3.
M 33M/M 33-22 (2026)	Preformed Expansion Joint Filler for Concrete (Bituminous Type)	4e	Reconfirmed for 2026 publication.
M 43-05 (2026)	Sizes of Aggregate for Road and Bridge Construction	1c	Reconfirmed for 2026 publication.
M 45-26	Aggregate for Masonry Mortar	1c	Revised for equivalency with ASTM C144-24. Revised Sections 1.3 and 1.4 but did not address historic masonry.
M 54M/M 54-26	Welded Deformed Steel Bar Mats for Concrete Reinforcement	4f	Revised for equivalency with ASTM A184/A184M-24. Added new Sections 1.4 and 1.5. Defined defects: revised Section 8.1 and added Section 8.3.
M 57-80 (2025)	Materials for Embankments and Subgrades	1b	M 57 has been discontinued due to lack of use.
M 111M/M 111-26	Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products	4f	Revised for equivalency with ASTM A123/A123M-24. Changes throughout related to masking and clarifying material categories: Added two new definitions in Section 3; In Table 1, added forgings and castings; added Notes 6, 9, 13 and 14; added clarification to Section 6.1, 6.1.1, and 6.1.2; modified Section 6.2 to address masking; added Section 6.4.1; added Appendix X1. Editorial revision to Section 6.1. Also added new Sections 1.7 and 1.8.
M 143-26	Sodium Chloride	4c	Added new Sections 1.3 and 1.4. Revised Section 2.2. Made minor editorial revisions made for clarification purposes.

Designation Number	Title	TS	Technical Changes
M 144-26	Calcium Chloride	4c	Added new Sections 1.3 and 1.4. Revised Setions 4.1.4 and 6.2. Minor editorial revisions made for clarification purposes.
M 154M/M 154-26	Air-Entraining Admixtures for Concrete	3b	Revised for equivalency with ASTM C260/C260M-24 and to add an exception to ASTM's Section 9.1.
M 157-26	Ready-Mixed Concrete	3b	Revised Sections 6.1 and 6.3 to change "project" to "job"; Section 7.2; Table 4 to fix overlap criteria at 4 in. and correct 60 mm to 38 mm; and Annex A to update the number of tests in Table 4. Added new Note 3.
M 167M/M 167-26	Corrugated Steel Structural Plate, Zinc-Coated, for Field-Bolted Pipe, Pipe-Arches, and Arches	4b	Revised for equivalency with ASTM A761/A761M-24. Section 2.2: Added references for ASTM A1113 and F3393. Section 6.5: Inserted phrasing for zinc, polymer, or aluminum zinc coating for fasteners. Section 6.6: Revised first sentence. Table 4: Added requirements for polymer coating and aluminum zinc flake and added new note d with aluminum zinc flake details. Added new Sections 1.4 and 1.5.
M 190-22 (2026)	Asphalt-Coated Corrugated Metal Culvert Pipe and Pipe-Arches	4b	Reconfirmed for 2026 publication.
M 194M/M 194-26	Chemical Admixtures for Concrete	3b	Revised for equivalency with ASTM C494/C494M-24.
M 208-18 (2026)	Cationic Emulsified Asphalt	2a	Reconfirmed for 2026 publication.
M 216-22 (2026)	Quicklime and Hydrated Lime for Soil Stabilization	3a	Reconfirmed for 2026 publication.
M 240M/M 240-26	Blended Hydraulic Cement	3a	Revised Sections 1.3, 1.4, 2.2, 3.1, 4.2, 7, 8, 9, 11.1, and Figure X1.1. Added new Table 1 in Section 7.
M 241M/M 241-26	Concrete Made by Volumetric Batching and Continuous Mixing	3b	Revised for equivalency with ASTM C685/C685M-24. Revised to update referenced standards table to add C989 and C1240 and their AASHTO equivalents and Section 5.2.2; included AASHTO references where appropriate.
M 243-22 (2026)	Field-Applied Coating of Corrugated Metal Structural Plate for Pipe, Pipe-Arches, and Arches	4b	Reconfirmed for 2026 publication.
M 247-26	Glass Beads Used in Pavement Markings	4c	Technical changes per request of industry to represent current materials.
M 251M/M 251-26	Plain and Laminated Elastomeric Bridge Bearings	4e	Revised Sections 9.1.3. and 9.1.4. to add tolerances to the loading rates.
M 261-22 (2026)	Rib-Tread Standard Tire for Special-Purpose Pavement Frictional-Property Tests	5a	Reconfirmed for 2026 publication.

Designation Number	Title	TS	Technical Changes
M 268-22 (2026)	Retroreflective Sheeting for Flat and Vertical Traffic Control Applications	4d	Reconfirmed for 2026 publication.
M 269-96 (2026)	Turnbuckles and Shackles	4d	Reconfirmed for 2026 publication.
M 270M/M 270-26	Structural Steel for Bridges	4f	Revised for equivalency with ASTM A709/A709M-24. Added new Sections 1.8 and 1.9. Added a new Section 2.3 in the referenced documents. Deleted fracture critical and non-fracture critical references and replaced with LRFD-defined term of fracture critical practice. Modified Table 2 Note n and Section 1.4. Deleted Sections 3.1.1 and 3.1.3; added Section 3.2 and Note 1. Revised Sections 4.1.1, 6.8, and 10, titles of Tables 11 and 12, and keywords.
M 278-22 (2026)	Class PS46 Poly(Vinyl Chloride) (PVC) Pipe	4b	Reconfirmed for 2026 publication.
M 286-22 (2026)	Smooth-Tread Standard Tire for Special-Purpose Pavement Frictional-Property Tests	5a	Reconfirmed for 2026 publication.
M 288M/M 288-24 (2026)	Geosynthetics for Highway Applications	4g	Reconfirmed for 2026 publication.
M 292M/M 292-26	Carbon Steel, Alloy Steel, and Stainless Steel Nuts for Bolts for High-Pressure or High-Temperature Service, or Both	4f	Revised for equivalency with ASTM A194/A194M-24. Added new Sections and 1.6. Added a new ANSI/ASME reference, modified chemical composition for 1 Grade and modified nut requirements. In Sections 2.3, 3.1.5, 8.3.1 and 9.1: Added a new reference (ANSI/ASME B18.2.6M). Table 1: Max Nitrogen changed from 0.22 to 0.25 for 8MLCuN/8MLCuNA. In Section 9: removed wording specific to chamfer and angularity. Added the new reference to Section 2 and added Note 7.
M 295-26	Coal Ash and Raw or Calcined Natural Pozzolan for Use in Concrete	3a	Added new Sections 1.2, 1.4, and 1.5. Revised Section 3 and Table 3.
M 300-22 (2026)	Inorganic Zinc-Rich Primer	4c	Reconfirmed for 2026 publication.
M 302-26	Slag Cement for Use in Concrete and Mortars	3a	New additions in Sections 1.3, 1.4, 2.2, 6.1.1, 10, and 11. Revisions in newly numbered Sections 13.1, 14, 15, X4, and Figure X4.1.
M 307-22 (2026)	Silica Fume Used in Cementitious Mixtures	3a	Reconfirmed for 2026 publication.
M 314-90 (2026)	Steel Anchor Bolts	4f	Reconfirmed for 2026 publication.

Designation Number	Title	TS	Technical Changes
M 322M/M 322-26	Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement	4f	Revised for equivalency with ASTM A996/A996M-24. Defined "lot": Added Sections 1.7 and 3.1.3 and deleted Note 1. Separated Table 2 into two tables; also changed Grade 300[40] to 280[40] in Table 2/3, and revised some values in Table 2 to align with ASTM, M 31M/M 31, and M 54M/M 54.
M 323-22 (2026)	Superpave Volumetric Mix Design	2d	Reconfirmed for 2026 publication.
M 326-18 (2026)	Polyethylene (PE) Liner Pipe, 300- to 1600-mm Diameter, Based on Controlled Outside Diameter	4b	Reconfirmed for 2026 publication.
M 327-26	Processing Additions for Use in the Manufacture of Hydraulic Cements	3a	Revised Section 3 to change the number of required clinkers and to make provision for Type IL cement.
M 328-14 (2026)	Inertial Profiler	5a	Reconfirmed for 2026 publication.
M 339M/M 339-26	Thermometers Used in the Testing of Construction Materials	5c	Major revisions throughout.
M 340-22 (2026)	Materials for Emulsified Asphalt Chip Seals	5b	Reconfirmed for 2026 publication.
M 341-22 (2026)	Materials for Microsurfacing	5b	Reconfirmed for 2026 publication.
M 342-22 (2026)	Materials for Slurry Seal	5b	Reconfirmed for 2026 publication.
M 343-22 (2026)	Materials for Emulsified Asphalt Fog Seal	5b	Reconfirmed for 2026 publication.
M 344-22 (2026)	Materials for Sand Seals	5b	Reconfirmed for 2026 publication.
M 346-22 (2026)	Materials for Ultrathin Bonded Wearing Course	5b	Reconfirmed for 2026 publication.
M 347-22 (2026)	Materials for Full-Depth Reclamation Mixtures with Emulsified Asphalt	5b	Reconfirmed for 2026 publication.
M 348-26	Waterborne White and Yellow Traffic Paints	4c	Added new Sections 1.2 and 5.9. Revised Sections 2.2, 3.4, and 4. Deleted Section 11. Updated name of AASHTO NTPEP to AASHTO Product Evaluation and Audit Solutions throughout the document and made other minor editorial revisions.
M 349-22 (2026)	Materials for Asphalt Tack Coat	2a	Reconfirmed for 2026 publication.
M 350-22 (2026)	Reclaimed Asphalt Shingles for Use in Asphalt Mixtures	2d	Reconfirmed for 2026 publication.
M 351M/M 351-26	Cotton Duck Fabric Bridge Bearings	4e	Extensively revised, including Sections 2.2, 8.9.1, 8.10.3.3, 9.1, and 9.2. Added new Table 5.
M 359-26	Raw or Calcined Natural Pozzolan for Use in Concrete	3a	New full standard specification.
M 360M/M 360-26	Geocomposite Drains for Highway Applications	4g	New full standard specification.

Designation Number	Title	TS	Technical Changes
M 361M/M 361-26	Temporary Rolled Erosion Control Products for Highway Applications	4g	New full standard specification.
M 362-26	Performance-Graded Asphalt Binder for Surface Treatments	2b	Provisional standard MP 37 was adopted as a full standard specification, M 362, without revisions.
M 363M/M 363-26	Supplementary Cementitious Material for Use in Concrete	3a	New full standard specification.
R 9-26	Acceptance Sampling Plans for Highway Construction	5c	Revised Sections 1.1, 3.1, 6.7, 7.1, 8.1, 8.6, 8.8, 8.10, 8.18, 8.22, 8.23, 9.1, and 9.5. Added Section X.3. Deleted Sections 3.1.1, 3.1.2, and 13.4.
R 10-22 (2026)	Definition of Terms Related to Quality and Statistics as Used in Highway Construction	5c	Reconfirmed for 2026 publication.
R 13-22 (2026)	Conducting Geotechnical Subsurface Investigations	1b	Reconfirmed for 2026 publication.
R 15-26	Evaluation of Asphalt Additives and Modifiers	2b	Added Sections 1.4 and 1.5. Revised Section 2. Added definitions to differentiate between additives and modifiers in Section 3. Other revisions throughout document.
R 18-26	Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories	5c	Significant changes throughout including two new tables in the annex and deletion of the appendix.
R 23-99 (2026)	Chemical, Biological, and Physical Analysis of Water	5c	Reconfirmed for 2026 publication.
R 24-99 (2026)	Collection and Preservation of Water Samples	5c	Reconfirmed for 2026 publication.
R 25-22 (2026)	Technician Training and Certification Programs	5c	Reconfirmed for 2026 publication.
R 26-26	Certifying Suppliers of Performance-Graded Asphalt Binders	2b	Added M 332/T 350 requirements as an option and addressed additives and modifiers, as newly defined in R 15. Terminology definitions were replaced by reference to R 15's terminology. Very minor editorial revision in Note 6. Also added new Section 1.2.
R 28-22 (2026)	Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV)	2b	Reconfirmed for 2026 publication.
R 34-03 (2026)	Evaluating Deicing Chemicals	5c	Reconfirmed for 2026 publication.
R 35-26	Superpave Volumetric Design for Asphalt Mixtures	2d	Revised to add M 332 as an alternative to M 320 for asphalt binder.
R 37-04 (2026)	Application of Ground Penetrating Radar (GPR) to Highways	5a	Reconfirmed for 2026 publication.
R 38-10 (2026)	Quality Assurance of Standard Manufactured Materials	5c	Reconfirmed for 2026 publication.

Designation Number	Title	TS	Technical Changes
R 39M/R 39-26	Casting and Curing Concrete Test Specimens in the Laboratory	3b	Removed reference to cardboard molds in Section 7.5.3.1.1 and updated for equivalency with ASTM C192/C192M-24, which included adding sections on terminology and precision and bias. Revised Note 1; Table 2 (changed to "≤" to "<" to correct inconsistency); and Table 3 (changed "14" to "13"). Added new Section 1.3.
R 40-10 (2026)	Measuring Pavement Profile Using a Rod and Level	5a	Reconfirmed for 2026 publication.
R 44-07 (2026)	Independent Assurance (IA) Programs	5c	Reconfirmed for 2026 publication.
R 46-22 (2026)	Designing Stone Matrix Asphalt (SMA)	2d	Reconfirmed for 2026 publication.
R 49-09 (2026)	Determination of Low-Temperature Performance Grade (PG) of Asphalt Binders	2b	Reconfirmed for 2026 publication.
R 50-09 (2026)	Geosynthetic Reinforcement of the Aggregate Base Course of Flexible Pavement Structures	4g	Reconfirmed for 2026 publication.
R 51-22 (2026)	Compost for Erosion/Sediment Control (Filter Berms and Filter Socks)	4g	Reconfirmed for 2026 publication.
R 52-22 (2026)	Compost for Erosion/Sediment Control (Compost Blankets)	4g	Reconfirmed for 2026 publication.
R 54-14 (2026)	Accepting Pavement Ride Quality When Measured Using Inertial Profiling Systems	5a	Reconfirmed for 2026 publication.
R 57-14 (2026)	Operating Inertial Profiling Systems	5a	Reconfirmed for 2026 publication.
R 58-22 (2026)	Dry Preparation of Disturbed Soil and Soil–Aggregate Samples for Test	1a	Reconfirmed for 2026 publication.
R 62-13 (2026)	Developing Dynamic Modulus Master Curves for Asphalt Mixtures	2d	Reconfirmed for 2026 publication.
R 64-26	Sampling and Fabrication of 50-mm (2-in.) Cube Specimens Using Grout (Non-Shrink) or Mortar	3b	Revised to reinstate deleted sentence in Section 1.2, clarify Section 7.2.1, and update Figure 1. Also revised Section 1.3.
R 65-14 (2026)	Evaluating the Engineering and Environmental Suitability of Recycled Materials	5c	Reconfirmed for 2026 publication.
R 68-22 (2026)	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	2d	Reconfirmed for 2026 publication.
R 71-26	Sampling and Amount of Testing of Hydraulic Cement	3a	Revised for equivalency with ASTM C183/C183M-25. Revised Sections 2.2, 2.3, 4.3, 9.1.6, and 9.1.8, and Note 5. Added new Section X.1.7.

Designation Number	Title	TS	Technical Changes
R 72-22 (2026)	Match Curing of Concrete Test Specimens	3c	Reconfirmed for 2026 publication.
R 74-22 (2026)	Wet Preparation of Disturbed Soil Samples for Test	1a	Reconfirmed for 2026 publication.
R 75-26	Developing a Family of Curves Using Soil Moisture–Density Relations	1b	Title changed. Reintroduced the "family of curves" nomenclature. Revised Sections 1, 3, 4, and 5. Also added Section 1.3.
R 76M/R 76-26	Reducing Samples of Aggregate to Testing Size	1c	Revised for equivalency with ASTM C702/C702M-24. Changed to dual units. Revised Sections 1.2 through 1.4 and 4.1.
R 78-22 (2026)	Recovering Residue from Emulsified Asphalt Using Low-Temperature Evaporative Techniques	2a	Reconfirmed for 2026 publication.
R 79-22 (2026)	Vacuum Drying Compacted Asphalt Specimens	2c	Reconfirmed for 2026 publication.
R 80-26	Determining the Reactivity of Concrete Aggregates and Selecting Appropriate Measures for Preventing Deleterious Expansion in New Concrete Construction	3c	Revised throughout, in particular Sections 6 through 8. Added new Section 1.3. Added new Appendix X5, including examples.
R 83-26	Preparation of Cylindrical Performance Test Specimens Using the Superpave Gyratory Compactor (SGC)	2d	Revised to add reference to the new long-term conditioning standard, R 121.
R 85-18 (2026)	Quantifying Cracks in Asphalt Pavement Surfaces from Collected Pavement Images Utilizing Automated Methods	5a	Reconfirmed for 2026 publication.
R 86-18 (2026)	Collecting Images of Pavement Surfaces for Distress Detection	5a	Reconfirmed for 2026 publication.
R 87-18 (2026)	Determining Pavement Deformation Parameters and Cross Slope from Collected Transverse Profiles	5a	Reconfirmed for 2026 publication.
R 88-18 (2026)	Collecting the Transverse Pavement Profile	5a	Reconfirmed for 2026 publication.
R 89-18 (2026)	Accreditation Bodies Operating in the Fields of Construction Materials Testing and Inspection	5c	Reconfirmed for 2026 publication.
R 90-18 (2026)	Sampling Aggregate Products	1c	Reconfirmed for 2026 publication.
R 91-18 (2026)	Determining Aggregate Source Shape Values from Digital Image Analysis Shape Properties	1c	Reconfirmed for 2026 publication.
R 92-18 (2026)	Evaluating the Elastic Behavior of Asphalt Binders Using the Multiple Stress Creep Recovery (MSCR) Test	2b	Reconfirmed for 2026 publication.
R 95-22 (2026)	Accelerated Aging of Hot-Poured Asphalt Crack Sealant Using a Vacuum Oven	4e	Reconfirmed for 2026 publication.

Designation Number	Title	TS	Technical Changes
R 100M/R 100-26	Casting and Curing Concrete Strength Test Specimens in the Field	3b	Revised Tables 3 and 4 and updated for equivalency with ASTM C31/C31M-25a or -25b????. Changed "≤" to" <" in two locations in Table 3; corrected section reference in Table 4; with addition of new Section 1.2, deleted a repetitive portion of Section 1.4; made minor edits in Sections 3.2.4, 8.2, 8.3, 8.5.2, and 11.1.4, and Tables 4 and 5. Added new Section 1.6.
R 101-26	Developing Performance Engineered Concrete Pavement Mixtures	3c	Revised Sections 6.3, 6.6 and 7.2. Added new note in Section 6.4.1.2.
R 102-22 (2026)	Emulsified Asphalt Chip Seal Design	5b	Reconfirmed for 2026 publication.
R 103-22 (2026)	Microsurfacing Design	5b	Reconfirmed for 2026 publication.
R 104-22 (2026)	Slurry Seal Design	5b	Reconfirmed for 2026 publication.
R 105-22 (2026)	Emulsified Asphalt Fog Seal Design	5b	Reconfirmed for 2026 publication.
R 106-22 (2026)	Sand Seal Design	5b	Reconfirmed for 2026 publication.
R 107-22 (2026)	Emulsified Asphalt Scrub Seal Design	5b	Reconfirmed for 2026 publication.
R 108-22 (2026)	Ultrathin Bonded Wearing Course Design	5b	Reconfirmed for 2026 publication.
R 109-22 (2026)	Emulsified Asphalt Content of Full-Depth Reclamation Mixture Design	5b	Reconfirmed for 2026 publication.
R 110-22 (2026)	Continuous Thermal Profile of Asphalt Mixture Construction	5c	Reconfirmed for 2026 publication.
R 111-22 (2026)	Intelligent Compaction for Embankment and Asphalt Pavement Applications	5c	Reconfirmed for 2026 publication.
R 112-22 (2026)	Asphalt Tack Coat Design	2a	Reconfirmed for 2026 publication.
R 113-26	Materials Selection and Mixture Design of Permeable Friction Courses (PFCs)	2d	Revised to add M 332 as an alternative to M 320 for asphalt binder.
R 114-22 (2026)	Design Considerations When Using Reclaimed Asphalt Shingles (RAS) in Asphalt Mixtures	2d	Reconfirmed for 2026 publication.
R 133-26	Sample Preparation and Polishing of Unbound Aggregates for Dynamic Friction Testing	1c	Provisional standard PP 103 has been adopted as a full standard practice, R 133, without revisions.
R 134-26	Sample Prepation and Polishing of Asphalt Mixture Specimens for Dynamic Friction Testing	1c	Provisional standard PP 104 has been adopted as a full standard practice, R 134, without revisions.
R 135M/R 135-26	Thin-Walled Tube Sampling of Fine-Grained Soils	1b	Reclassified T 207 as a standard practice, R 135M/R 135. Also changed to dual units and revised the title.

PART 2—STANDARD METHODS OF TEST

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T 366-22 (2026)	Apparent Viscosity of Hot-Poured Asphalt Crack Sealant Using Rotational Viscometer
T 368-22 (2026)	Measuring Low-Temperature Flexural Creep Stiffness of Hot-Poured Asphalt Crack Sealant by Bending Beam Rheometer (BBR)
T 369-22 (2026)	Evaluation of the Low-Temperature Tensile Property of Hot-Poured Asphalt Crack Sealant by Direct Tension Test
T 370-22 (2026)	Measuring Adhesion of Hot-Poured Asphalt Crack Sealant Using Direct Adhesion Tester
T 371-22 (2026)	Measuring Interfacial Fracture Energy of Hot-Poured Asphalt Crack Sealant Using a Blister Test
	Metallic Materials for Bridges
T 65M/T 65-24	Mass [Weight] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings
T 213M/T 213-24	Mass [Weight] of Coating on Aluminum-Coated Iron or Steel Articles
T 243M/T 243-19 (2023)	Sampling Procedure for Impact Testing of Structural Steel

Standard Number	Title
T 244-25	Mechanical Testing of Steel Products
T 337-09 (2023)	Non-Instrumental Determination of Metallic Zinc in Zinc-Rich Primers
T 338-09 (2024)	Analysis of Structural Steel Coatings for Hindered Amine Light Stabilizer (HALS)
T 339-22 (2026)	Analysis of Structural Steel Coatings for Isocyanate Content
T 372M/T 372-17 (2025)	Sensitivity of Stainless Steel to Intergranular Attack
T 373M/T 373-17 (2025)	Comparative Qualitative Corrosion Characterization of Steel Bars Used for Concrete Reinforcement (Linear Polarization Resistance and Potentiodynamic Polarization Tests)
T 374M/T 374-17 (2025)	Comparative Qualitative Corrosion Characterization of Uncoated Chromium-Alloyed Steel Bars Used for Concrete Reinforcement (Tombstone Test)
T 375M/T 375-17 (2025)	Identification of Iron-Based Alloy Steel Bars for Concrete Reinforcement or Dowels by Handheld X-Ray Fluorescence (XRF) Spectrometer
T 376M/T 376-24	Macrocell Slab Chloride Threshold
T 415-24	Weight and Diameter for Carbon-Steel for Steel Wire and Welded Wire Reinforcement for Concrete
	Miscellaneous
T 256-01 (2024)	Pavement Deflection Measurements
T 384-23	Protective Sealers for Portland Cement Concrete
T 388-22 (2026)	Detectable Warning Systems
T 414-24	Determining the Dielectric Constant of Compacted Asphalt Mixture Specimens
	Painting, Traffic Marking, and Signing
T 143-26	Sampling and Testing Calcium Chloride for Roads and Structural Applications
T 237-25	Epoxy Resin Adhesives for Bonding Traffic Markers to Hardened Portland Cement and Asphalt Concrete
T 250-23	Thermoplastic Traffic Line Material
T 333-22 (2026)	Linear Coefficient of Shrinkage on Cure of Adhesive Systems
T 346-26	Glass Beads Used in Pavement Markings
T 392-21 (2025)	Determination of Heavy Metal Content of Glass Beads Using X-Ray Fluorescence (XRF)
T 398-25	Measuring Retroreflectivity of Longitudinal Pavement Marking Materials Using a Mobile Retroreflectometer Unit
T 427-26	Producing Drawdown Panels and Measuring the Coefficient of Retroreflected Luminance (RL) of Pavement Markings in a Laboratory Panel
	Pavement Surface Characteristics
T 242M/T 242-26	Frictional Properties of Paved Surfaces Using a Full-Scale Tire
T 278-24	Surface Frictional Properties Using the British Pendulum Tester
T 282M/T 282-24	Calibrating a Wheel Force or Torque Transducer Using a Calibration Platform (User Level)
T 317-04 (2026)	Prediction of Asphalt-Bound Pavement Layer Temperatures
T 360-16 (2024)	Measurement of Tire/Pavement Noise Using the On-Board Sound Intensity (OBSI) Method
T 389-22 (2026)	Determining the Influence of Road Surfaces on Vehicle Noise Using the Statistical Isolated Pass-By (SIP) Method
T 390-22 (2026)	Determining the Influence of Road Surfaces on Traffic Noise Using the Continuous-Flow Traffic Time-Integrated Method (CTIM)

Standard Number	Title
	Soils and Stabilization
T 88-22 (2026)	Particle Size Analysis of Soils
T 89-22 (2026)	Determining the Liquid Limit of Soils
T 90-22 (2026)	Determining the Plastic Limit and Plasticity Index of Soils
T 99-26	Moisture–Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and a 305-mm (12-in.) Drop
T 100-25	Specific Gravity of Soils
T 134-25	Moisture–Density Relations of Soil–Cement Mixtures
T 135-26	Wetting-and-Drying Test of Compacted Soil–Cement Mixtures
T 136-26	Freezing-and-Thawing Tests of Compacted Soil–Cement Mixtures
T 176-22 (2026)	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test
T 180-26	Moisture–Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop
T 190M/T 190-25	Resistance R-Value and Expansion Pressure of Compacted Soils
T 191-26	Density of Soil In-Place by the Sand-Cone Method
T 193-22 (2026)	The California Bearing Ratio
T 194-22 (2026)	Determination of Organic Matter in Soils by Wet Combustion
T 206-22 (2025)	Penetration Test and Split-Barrel Sampling of Soils
T 207-22	*Discontinued*—Thin-Walled Tube Sampling of Soils
T 208M/T 208-26	Unconfined Compressive Strength of Cohesive Soil
T 211-90 (2025)	Determination of Cement Content in Cement-Treated Aggregate by the Method of Titration
T 215M/T 215-25	Permeability of Granular Soils (Constant Head)
T 216M/T 216-25	One-Dimensional Consolidation Properties of Soils
T 217-14 (2026)	Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester
T 218-86 (2026)	Sampling Hydrated Lime
T 219-22 (2026)	Testing Lime for Chemical Constituents and Particle Sizes
T 220-22 (2026)	Determination of the Strength of Soil–Lime Mixtures
T 221M/T 221-24	Repetitive Static Plate Tests of Soils and Flexible Pavement Components for Use in Evaluation and Design of Airport and Highway Pavements
T 222M/T 222-25	Nonrepetitive Static Plate Load Test of Soils and Flexible Pavement Components for Use in Evaluation and Design of Airport and Highway Pavements
T 223-96 (2025)	Field Vane Shear Test in Cohesive Soil
T 226-25	Triaxial Compressive Strength of Undrained Rock Core Specimens without Pore Pressure Measurements
T 232-90 (2026)	Determination of Lime Content in Lime-Treated Soils by Titration
T 233-22 (2026)	Density of Soil In-Place by Block, Chunk, or Core Sampling
T 236M/T236-26	Direct Shear Test of Soils under Consolidated Drained Conditions
T 252-19 (2023)	Measurements of Pore Pressures in Soils
T 258-81 (2026)	Determining Expansive Soils
T 265-22 (2026)	Laboratory Determination of Moisture Content of Soils
T 267-22 (2026)	Determination of Organic Content in Soils by Loss on Ignition

Standard Number	Title
T 272-18 (2026)	One-Point Method for Determining Maximum Dry Density and Optimum Moisture
T 273-86 (2026)	Soil Suction
T 288-25	Determining Minimum Laboratory Soil Resistivity
T 289-22 (2026)	Determining pH of Soil for Use in Corrosion Testing
T 290-95 (2024)	Determining Water-Soluble Sulfate Ion Content in Soil
T 291-22 (2026)	Determining Water-Soluble Chloride Ion Content in Soil
T 296-22 (2026)	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression
T 298-15 (2023)	High-Strain Dynamic Testing of Piles
T 307-99 (2025)	Determining the Resilient Modulus of Soils and Aggregate Materials
T 310-22 (2026)	In-Place Density and Moisture Content of Soil and Soil–Aggregate by Nuclear Methods (Shallow Depth)
T 311-20 (2024)	Grain-Size Analysis of Granular Soil Materials
T 385-19 (2023)	Deep Foundation Elements under Bidirectional Static Axial Compressive Load
T 386-19 (2023)	Rapid Axial Compressive Load Testing of Deep Foundation Units
T 399-26	Determining In-Place Density and Moisture Content of Soil and Soil–Aggregate Using Complex Impedance Methodology

LIST OF TECHNICAL CHANGES—PART 2

The balloted technical changes listed below are also indicated in the specifications by a change bar in the left margin. Unballoted editorial changes do not receive the change bar in reconformed standards; however, the subheader line below the designation number will indicate if the standard has been editorially revised.

Release: 2026

Designation Number	Title	TS	Technical Changes
T 11-26	Materials Finer Than 75-µm (No. 200) Sieve in Aggregates by Washing	1c	Revised oven, thermometer, and balance references. Also added Section 1.4.
T 19M/T 19-26	Bulk Density ("Unit Weight") and Voids in Aggregate	1c	Revised balance reference. Also added Section 1.3.
T 22M/T 22-26	Compressive Strength of Cylindrical Concrete Specimens	3c	Revised Sections 2.1 and 7.2.
T 27-26	Sieve Analysis of Fine and Coarse Aggregates	1c	Revised to incorporate T 30 oven/thermometer/balance references. Also added Section 1.3 and revised Section 1.4.
T 37-26	Sieve Analysis of Mineral Filler for Asphalt Mixtures	2c	Revised for equivalency with ASTM D546-24. Revised Sections 1 and 6.
T 48-22 (2026)	Flash Point of Asphalt Binder by Cleveland Open Cup	2b	Reconfirmed for 2026 publication.
T 49M/T 49-26	Penetration of Bituminous Materials	2b	Revised for equivalency with ASTM D5/D5M-20 and converted to dual units.
T 51M/T 51-26	Ductility of Asphalt Materials	2b	Revised for equivalency with ASTM D113/113M-17(2023) and converted to dual units. Changed T 49 to T 49M/T 49 in table.
T 53M/T 53-26	Softening Point of Bitumen (Ring-and-Ball Apparatus)	2b	Revised for equivalency with ASTM D36/D36M-14, except for removing ethylene glycol. Also converted to dual units. Modified item 11 and changed D 92 to T 48 in item 12.
T 72-26	Saybolt Viscosity	2a	Revised Table 2 to add oil as an option for bath media for 21.1°C and 25.0°C standard test. Also added new Section 1.3 and revised Section 1.4.
T 78-26	Distillation of Cutback Asphalt Products	2a	Revised Section 8.2 to add wording to describe the drip rate requirement below 225°C. Also added new Section 1.3 and revised Section 1.4.
T 79-22 (2026)	Flash Point with Tag Open-Cup Apparatus for Use with Material Having a Flash Point Less Than 93ºC (200ºF)	2a	Reconfirmed for 2026 publication.

Designation Number	Title	TS	Technical Changes
T 84-26	Specific Gravity and Absorption of Fine Aggregate	1c	Revised oven/thermometer/constant mass references. Revised Sections 1.5 and 3.1. Added Section 1.3.
T 85-26	Specific Gravity and Absorption of Coarse Aggregate	1c	Revised for equivalency with ASTM C127-24. Revised oven/thermometer/constant mass references. Also revised Section 1.5.
T 88-22 (2026)	Particle Size Analysis of Soils	1a	Reconfirmed for 2026 publication.
T 89-22 (2026)	Determining the Liquid Limit of Soils	1a	Reconfirmed for 2026 publication.
T 90-22 (2026)	Determining the Plastic Limit and Plasticity Index of Soils	1a	Reconfirmed for 2026 publication.
T 96-22 (2026)	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	1c	Reconfirmed and editorially revised to harmonize with ASTM C131/C131M-20.
T 98M/T 98-12 (2025)	Fineness of Portland Cement by the Turbidimeter	3a	T 98M/T 98 has been discontinued due to lack of use by states and withdrawal of its ASTM equivalent.
T 99-26	Moisture–Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and a 305-mm (12-in.) Drop	1b	Revised when it is appropriate to use the entire specimen to determine moisture content. Revised Sections 3.1, 3.5, and 3.6, and Figure 3. Added new Sections 1.8 and 1.9 and Note 8.
T 102-22 (2026)	Spot Test of Asphaltic Materials	2b	Reconfirmed for 2026 publication.
T 103-22 (2026)	Soundness of Aggregates by Freezing and Thawing	1c	Reconfirmed for 2026 publication.
T 104-22 (2026)	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	1c	Reconfirmed for 2026 publication.
T 105-26	Chemical Analysis of Hydraulic Cement	3a	Revised AASHTO and ASTM designation numbers to show that the standards remain equivalent.
T 106M/T 106-26	Compressive Strength of Hydraulic Cement Mortar (Using 50-mm or 2-in. Cube Specimens)	3a	Revised Sections 5.3 and 5.6. Added new Notes 17 and 18.
T 111-22 (2026)	Mineral Matter or Ash in Asphalt Materials	2b	Reconfirmed for 2026 publication.
T 121M/T 121-26	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	3b	Revised for equivalency with ASTM C138/C138M-24a. In Section 4.1, added "±"; in Section 4.2, changed fractions to decimal equivalent; and in Section 9.1.6, added 0.1. Also revised Section 1.4.
T 132-22 (2026)	Tensile Strength of Hydraulic Cement Mortars	3a	Reconfirmed for 2026 publication.
T 133-22 (2026)	Density of Hydraulic Cement	3a	Reconfirmed for 2026 publication.

Designation Number	Title	TS	Technical Changes
T 135-26	Wetting-and-Drying Test of Compacted Soil–Cement Mixtures	1b	Revised for minor technical corrections in Sections 3.14, 5.1, and 8.1; Figure 1; and Table 1. Also added new Sections 1.4 and 1.5.
T 136-26	Freezing-and-Thawing Tests of Compacted Soil–Cement Mixtures	1b	Revised for minor technical corrections in Sections 3.15, 5.1, and 8.1; Figure 1; and Table 1. Also added new Sections 1.4 and 1.5.
T 137-22 (2026)	Air Content of Hydraulic Cement Mortar	3a	Reconfirmed for 2026 publication.
T 143-26	Sampling and Testing Calcium Chloride for Roads and Structural Applications	4c	Added new Sections 1.5 and 1.6. Revised Section X1.5.1. Other minor revisions for clarification purposes.
T 148-22 (2026)	Measuring Length of Drilled Concrete Cores	3c	Reconfirmed for 2026 publication.
T 153-26	Fineness of Hydraulic Cement by Air Permeability Apparatus	3a	Revised for equivalency with ASTM C204-25. Added new Section 1.3 and moved Note 5 into Section 5.2.1.
T 157M/T 157-26	Air-Entraining Admixtures for Concrete	3b	Updated for equivalency with ASTM C233/C233M-24. Revised Sections 1.5, 2.3, 2.4, 4.1.1, 4.2.1, 4.2.2, table in 4.2.5, 5.1.2, 13.1.7, and 17.1; Note 6; and Table 1.
T 160M/T 160-26	Length Change of Hardened Hydraulic Cement Mortar and Concrete	3c	Revised for equivalency with ASTM C157/C157M-24e1. Changed to dual units. Revised Sections 1 and 2.1. Added new notes in Sections 10.3 and 10.4.
T 161-22 (2026)	Resistance of Concrete to Rapid Freezing and Thawing	3c	Reconfirmed for 2026 publication.
T 164M/T 164-26	Quantitative Extraction of Asphalt Binder from Asphalt Mixtures	2c	Revised for equivalency with ASTM D2172/D2172M-24 and converted to dual units. Added tetrachloroethylene as a solvent option in Sections 3, 7.4, 8, 12, and 23.3. Also revised Sections 1, 2, and 9.2.1, and defined equation in Section 13.1.
T 167-26	Compressive Strength of Asphalt Mixtures	2d	Revised terminology (hot mix to asphalt mixtures) and removed reference to an ASTM standard that has been withdrawn.
T 176-22 (2026)	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	1a	Reconfirmed for 2026 publication.
T 178-22 (2026)	Portland Cement Content of Hardened Hydraulic-Cement Concrete	3c	Reconfirmed for 2026 publication.

Designation Number	Title	TS	Technical Changes
T 180-26	Moisture–Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop	1b	Revised when it is appropriate to use the entire specimen to determine moisture content. Revised Sections 3.5 and 3.6. Added new Sections 1.8 and 1.9, Note 8, and Figure 3.
T 191-26	Density of Soil In-Place by the Sand-Cone Method	1b	Revised to add new Sections 1.3 and 1.4. Also added T 180 to the list of referenced documents.
T 192-26	Fineness of Hydraulic Cement by the 45-μm (No. 325) Sieve	3a	Revised for equivalency with ASTM C430-25. Added new Sections 1.1.1 and 1.3.
T 193-22 (2026)	The California Bearing Ratio	1a	Reconfirmed for 2026 publication.
T 194-22 (2026)	Determination of Organic Matter in Soils by Wet Combustion	1a	Reconfirmed for 2026 publication.
T 195M/T 195-26	Determining Degree of Particle Coating of Asphalt Mixtures	2c	Revised for equivalency with ASTM D2489/D2489M-24 and converted to dual units. Also added new Sections 1.3, 5, and 7.
T 196M/T 196-26	Air Content of Freshly Mixed Concrete by the Volumetric Method	3b	Revised for equivalency with ASTM C173/C173M-24a. Revised Sections 1.3, 5.1.3, 5.5, and 7.1.
T 198-22 (2026)	Splitting Tensile Strength of Cylindrical Concrete Specimens	3c	Reconfirmed for 2026 publication.
T 201M/T 201-26	Kinematic Viscosity of Asphalts	2b	Revised for equivalency with ASTM D2170/D2170M-24 and converted to dual unit. Revised Table 1 caption.
T 202M/T 202-26	Viscosity of Asphalts by Vacuum Capillary Viscometer	2b	Revised for equivalency with ASTM D2171/D2171M-22 and converted to dual units.
T 207-22	Thin-Walled Tube Sampling of Soils	1b	T 207 has been reclassified as a standard practice, R 135M/R 135.
T 208M/T 208-26	Unconfined Compressive Strength of Cohesive Soil	1a	Revised for equivalency with ASTM D2166-24. Revisions include requiring a graph of the stress–strain data and clarified computation of the undrained shear strength. Also revised Sections 1 through 10, 12, and Appendix A. Added new Section 1.7.
T 217-14 (2026)	Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	1a	Reconfirmed for 2026 publication.
T 218-86 (2026)	Sampling Hydrated Lime	3a	Reconfirmed for 2026 publication.
T 219-22 (2026)	Testing Lime for Chemical Constituents and Particle Sizes	3a	Reconfirmed for 2026 publication.
T 220-22 (2026)	Determination of the Strength of Soil–Lime Mixtures	1a	Reconfirmed for 2026 publication.
T 228-22 (2026)	Specific Gravity and Density of Semi-Solid Asphalt Materials	2b	Reconfirmed for 2026 publication.

Designation Number	Title	TS	Technical Changes
T 232-90 (2026)	Determination of Lime Content in Lime-Treated Soils by Titration	3a	Reconfirmed for 2026 publication.
T 233-22 (2026)	Density of Soil In-Place by Block, Chunk, or Core Sampling	1a	Reconfirmed for 2026 publication.
T 236M/T236-26	Direct Shear Test of Soils under Consolidated Drained Conditions	1a	Revised for equivalency with ASTM D3080/D3080M-23 and changed to dual units. Section 3 was also added to include the definition of failure. Additional minor revisions throughout standard. In Section 5.3, changed “insert” to “inserts”; in Note 2, changed “flow” to “permeate.” Added new Sections 1.5 and 1.6.
T 242M/T 242-26	Frictional Properties of Paved Surfaces Using a Full-Scale Tire	5a	Revised to maintain equivalence with ASTM E274/E274M-24; changed reference tire standard from ASTM E1136 to F2493.
T 245-26	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	2d	Revised Section 2 to include D3549/D3549M as a new reference and replace D5361/D5361M with R 67. Units in Section 6.1.3 were corrected.
T 246-22 (2026)	Resistance to Deformation and Cohesion of Asphalt Mixtures by Means of Hveem Apparatus	2d	Reconfirmed for 2026 publication. Editorially revised title.
T 247-22 (2026)	Preparation of Test Specimens of Asphalt Mixtures by Means of California Kneading Compactor	2d	Reconfirmed for 2026 publication. Editorially revised title.
T 258-81 (2026)	Determining Expansive Soils	1a	Reconfirmed for 2026 publication.
T 265-22 (2026)	Laboratory Determination of Moisture Content of Soils	1a	Reconfirmed for 2026 publication.
T 267-22 (2026)	Determination of Organic Content in Soils by Loss on Ignition	1a	Reconfirmed for 2026 publication.
T 272-18 (2026)	One-Point Method for Determining Maximum Dry Density and Optimum Moisture	1b	Reconfirmed for 2026 publication.
T 273-86 (2026)	Soil Suction	1a	Reconfirmed for 2026 publication.
T 275-22 (2026)	Bulk Specific Gravity (G_{mb}) of Compacted Asphalt Mixtures Using Paraffin-Coated Specimens	2c	Reconfirmed for 2026 publication.
T 276M/T 276-26	Measuring Early-Age Compression Strength and Projecting Later-Age Strength	3c	AASHTO and ASTM designation numbers changed to dual units in 2026; updated Sections 1.4 and 1.5.
T 277-26	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	3c	Reviewed for equivalency with ASTM C1202-25; updated Section 1.3.

Designation Number	Title	TS	Technical Changes
T 280M/T 280-26	Concrete Pipe, Manhole Sections, or Tile	4a	Revised for equivalency with ASTM C497/C497M-25. Revised Sections 1.6, 1.8, 2.1, 2.2, 5.4, 6.4,19.3.2, and 19.4.2. Added Section 1.7.
T 283-26	Resistance of Compacted Asphalt Mixtures to Moisture-Induced Damage	2d	Revised Section 1.2. Added Notes 6 and 7 to clarify conditioning requirements and air void requirements.
T 289-22 (2026)	Determining pH of Soil for Use in Corrosion Testing	1a	Reconfirmed for 2026 publication.
T 291-22 (2026)	Determining Water-Soluble Chloride Ion Content in Soil	1a	Reconfirmed for 2026 publication.
T 295-26	Specific Gravity, API Gravity, or Density of Cutback Asphalts by Hydrometer Method	2a	Revised for equivalency with ASTM D3142/D3142M-25. Revised Sections 1, 3, 4, 5, 6, 9, 10, 11, 12, 13, and 14. Also added new Section 1.3.
T 296-22 (2026)	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	1a	Reconfirmed for 2026 publication.
T 300-22 (2026)	Force Ductility Test of Asphalt Materials	2a	Reconfirmed for 2026 publication.
T 301-22 (2026)	Elastic Recovery Test of Asphalt Materials by Means of a Ductilometer	2b	Reconfirmed for 2026 publication.
T 302-22 (2026)	Polymer Content of Polymer-Modified Emulsified Asphalt Residue and Asphalt Binders	2a	Reconfirmed for 2026 publication.
T 303-22 (2026)	Accelerated Detection of Potentially Deleterious Expansion of Mortar Bars Due to Alkali–Silica Reaction	1c	Reconfirmed for 2026 publication.
T 304-22 (2026)	Uncompacted Void Content of Fine Aggregate	1c	Reconfirmed for 2026 publication.
T 305-22 (2026)	Determination of Draindown Characteristics in Uncompacted Asphalt Mixtures	2c	Reconfirmed for 2026 publication.
T 308-26	Determining the Asphalt Binder Content of Asphalt Mixtures by the Ignition Method	2c	Revised Section 1.2. Modified the internal balance requirements in Section 5.1.1.
T 309-22 (2026)	Temperature of Freshly Mixed Portland Cement Concrete	3b	Reconfirmed for 2026 publication.
T 310-22 (2026)	In-Place Density and Moisture Content of Soil and Soil–Aggregate by Nuclear Methods (Shallow Depth)	1b	Reconfirmed for 2026 publication.
T 312-26	Preparing and Determining the Density of Asphalt Mixture Specimens by Means of the Superpave Gyratory Compactor	2d	Revised Section 2.1 to add reference to new long term aging standard, R 121. Added Note 6 to address R 121.

Designation Number	Title	TS	Technical Changes
T 313-26	Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)	2b	Revisions include changing the terminology of the stepped gauge from a “thickness gauge” to a “gauge block” and adding a system confidence test as an optional procedure. Also added new Section 1.3.
T 314-22 (2026)	Determining the Fracture Properties of Asphalt Binder in Direct Tension (DT)	2b	Reconfirmed for 2026 publication.
T 315-26	Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	2b	Revisions include removing the requirements for specific types of RTD thermometer classes. Also added new Section 1.6 and made a minor revision to Section 9.4.1.2.
T 316-22 (2026)	Viscosity Determination of Asphalt Binder Using Rotational Viscometer	2b	Reconfirmed for 2026 publication.
T 317-04 (2026)	Prediction of Asphalt-Bound Pavement Layer Temperatures	5a	Reconfirmed for 2026 publication.
T 319-26	Quantitative Extraction and Recovery of Asphalt Binder from Asphalt Mixtures	2c	Revised to add tetrachloroethylene as a solvent option in Sections 7 and 8.
T 320-26	Determining the Permanent Shear Strain and Stiffness of Asphalt Mixtures Using the Superpave Shear Tester (SST)	2d	Revised Section 2 to replace ASTM D5361/D5361M reference with R 67. Specified how to measure the diameter and modified conditioning wording to match R 30.
T 321-26	Determining the Fatigue Life of Compacted Asphalt Mixtures Subjected to Repeated Flexural Bending	2d	Extensive revisions in cooperation with TFASH to align with ASTM D8237 as part of a coordination effort.
T 325-22 (2026)	Estimating the Strength of Concrete in Transportation Construction by Maturity Tests	3b	Reconfirmed for 2026 publication.
T 326-22 (2026)	Uncompacted Void Content of Coarse Aggregate (As Influenced by Particle Shape, Surface Texture, and Grading)	1c	Reconfirmed for 2026 publication.
T 327-22 (2026)	Resistance of Coarse Aggregate to Degradation by Abrasion in the Micro-Deval Apparatus	1c	Reconfirmed and editorially revised to harmonize with ASTM D6928-17.
T 329-22 (2026)	Moisture Content of Asphalt Mixtures by Oven Method	2c	Reconfirmed for 2026 publication.
T 330-22 (2026)	The Qualitative Detection of Harmful Clays of the Smectite Group in Aggregates Using Methylene Blue	1c	Reconfirmed for 2026 publication.
T 331-26	Bulk Specific Gravity (G_{mb}) and Density of Compacted Asphalt Mixtures Using Automatic Vacuum Sealing Method	2c	Added Note 2 in Section 5 incorporating circulator and heater verbiage, which aligns with similar wording in T 166 and T 209. Also revised in Section 1.4.
T 332-22 (2026)	Determining Chloride Ions in Concrete and Concrete Materials by Specific Ion Probe	3c	Reconfirmed for 2026 publication.

Designation Number	Title	TS	Technical Changes
T 333-22 (2026)	Linear Coefficient of Shrinkage on Cure of Adhesive Systems	4c	Reconfirmed for 2026 publication.
T 336-22 (2026)	Coefficient of Thermal Expansion of Hydraulic Cement Concrete	3c	Reconfirmed for 2026 publication.
T 339-22 (2026)	Analysis of Structural Steel Coatings for Isocyanate Content	4c	Reconfirmed for 2026 publication.
T 341-22 (2026)	Determination of Compression Capacity for Profile Wall Plastic Pipe by Stub Compression Loading	4b	Reconfirmed for 2026 publication.
T 342-26	Determining Dynamic Modulus of Asphalt Mixtures	2d	Revised title and and modified conditioning wording to match R 30. Added Section 1.3.
T 344-26	Evaluation of Superpave Gyratory Compactor (SGC) Internal Angle of Gyration Using Simulated Loading	2d	Revised for equivalency with ASTM D7115-20, including nomenclature and modification of the units of eccentricity/ tilting moment.
T 345-26	Passing Ability of Self-Consolidating Concrete (SCC) by J-Ring	3b	Revised to clarify the procedure and measuring slump flow diameter. Revised Sections 1.1, 1.2, 5.1, 6.1, and 11.1, and Note 1. Added new Section 1.3.
T 346-26	Glass Beads Used in Pavement Markings	4c	Revised Section 16 to add a new background reference.
T 347-26	Slump Flow of Self-Consolidating Concrete (SCC)	3b	Revised to clarify the procedure and measuring slump flow diameter. Revised Sections 1.2, 5.2 through 5.4, 6.1, 7.7, and 8.1; put Sections 5.3 and 5.4 in proper format with the rest of Section 5. Added new Section 1.3.
T 348-22 (2026)	Air-Void Characteristics of Freshly Mixed Concrete by Buoyancy Change	3b	Reconfirmed for 2026 publication.
T 350-26	Multiple Stress Creep Recovery (MSCR) Test of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	2b	Revised to add language to the calculation section indicating how to handle percent recovery results that are either less than 0 or greater than 100. Also added new Section 1.4.
T 351-26	Visual Stability Index (VSI) of Self-Consolidating Concrete (SCC)	3b	Revised to reinstate deleted sentence in Section 1.2 and change brackets to parentheses throughout; revised Section 7.9 to clarify rating increments. Also revised Section 1.3.
T 352-14 (2026)	Determining Formwork Pressure of Fresh Self-Consolidating Concrete (SCC) Using Pressure Transducers	3b	Reconfirmed for 2026 publication.
T 353-14 (2026)	Particle Size Analysis of Hydraulic Cement and Related Materials by Light Scattering	3a	Reconfirmed for 2026 publication.
T 354-22 (2026)	Specific Gravity and Absorption of Aggregate by Volumetric Immersion Method	1c	Reconfirmed for 2026 publication.

Designation Number	Title	TS	Technical Changes
T 355-22 (2026)	In-Place Density of Asphalt Mixtures by Nuclear Methods	2c	Reconfirmed for 2026 publication.
T 356-22 (2026)	Determining Air Content of Hardened Portland Cement Concrete by High-Pressure Air Meter	3c	Reconfirmed for 2026 publication.
T 357-26	Measuring Chloride Penetration of Hydraulic Cement Concrete by the Rapid Migration Procedure	3c	Revised extensively, including a title change, two new figures, new Section 14.
T 358-26	Surface Resistivity Indication of Concrete's Ability to Resist Chloride Ion Penetration	3c	Revised Sections 7.3, 8.1, 9.2, 10.1, 10.3, 10.4, 11.1, 12, X1.1, and X2.4. Added new Note 14.
T 359M/T 359-18 (2026)	Pavement Thickness by Magnetic Pulse Induction	3c	Reconfirmed for 2026 publication.
T 361-22 (2026)	Determining Asphalt Binder Bond Strength by Means of the Binder Bond Strength (BBS) Test	2a	Reconfirmed for 2026 publication.
T 363-22 (2026)	Evaluating Stress Development and Cracking Potential due to Restrained Volume Change Using a Dual Ring Test	3c	Reconfirmed for 2026 publication.
T 364-22 (2026)	Determination of Composite Activation Energy of Aggregates due to Alkali–Silica Reaction (Chemical Method)	3c	Reconfirmed for 2026 publication.
T 366-22 (2026)	Apparent Viscosity of Hot-Poured Asphalt Crack Sealant Using Rotational Viscometer	4e	Reconfirmed for 2026 publication.
T 368-22 (2026)	Measuring Low-Temperature Flexural Creep Stiffness of Hot-Poured Asphalt Crack Sealant by Bending Beam Rheometer (BBR)	4e	Reconfirmed for 2026 publication.
T 369-22 (2026)	Evaluation of the Low-Temperature Tensile Property of Hot-Poured Asphalt Crack Sealant by Direct Tension Test	4e	Reconfirmed for 2026 publication.
T 370-22 (2026)	Measuring Adhesion of Hot-Poured Asphalt Crack Sealant Using Direct Adhesion Tester	4e	Reconfirmed for 2026 publication.
T 371-22 (2026)	Measuring Interfacial Fracture Energy of Hot-Poured Asphalt Crack Sealant Using a Blister Test	4e	Reconfirmed for 2026 publication.
T 377-22 (2026)	Detecting the Presence of Phosphorous in Asphalt Binder	2b	Reconfirmed for 2026 publication.
T 378-26	Determining the Dynamic Modulus and Flow Number for Asphalt Mixtures Using the Asphalt Mixture Performance Tester (AMPT)	2d	Revised Appendix X2 to address changes in R 30.
T 379-18 (2026)	Nonlinear Impact Resonance Acoustic Spectroscopy (NIRAS) for Concrete Specimens with Damage from Alkali-Silica Reaction (ASR)	3c	Reconfirmed for 2026 publication.

Designation Number	Title	TS	Technical Changes
T 380-26	Potential Alkali Reactivity of Aggregates and Effectiveness of ASR Prevention Measures (Miniature Concrete Prism Test, MCPT)	3c	Revised Sections 1.1, 3.2, 7, 9.4, and 12.1; and Tables 1 and 2. Added new Section 14.8, Note 5, and endnote 2.
T 381-22 (2026)	Determining Aggregate Shape Properties by Means of Digital Image Analysis	1c	Reconfirmed for 2026 publication.
T 382-22 (2026)	Determining the Viscosity of Emulsified Asphalt by a Rotational Paddle Viscometer	2a	Reconfirmed for 2026 publication.
T 388-22 (2026)	Detectable Warning Systems	4d	Reconfirmed for 2026 publication.
T 389-22 (2026)	Determining the Influence of Road Surfaces on Vehicle Noise Using the Statistical Isolated Pass-By (SIP) Method	5a	Reconfirmed for 2026 publication.
T 390-22 (2026)	Determining the Influence of Road Surfaces on Traffic Noise Using the Continuous-Flow Traffic Time-Integrated Method (CTIM)	5a	Reconfirmed for 2026 publication.
T 393-22 (2026)	Determining the Fracture Potential of Asphalt Mixtures Using the Illinois Flexibility Index Test (I-FIT)	2d	Reconfirmed for 2026 publication.
T 394-26	Determining the Fracture Energy of Asphalt Mixtures Using the Semicircular Bend Geometry (SCB)	2d	Revised to add M 332 as an alternative to M 320 for asphalt binder and replaced D5361/D5361M with R 67.
T 396-26	Evaluating the Workability of Slip Form Concrete Paving with the Box Test	3b	Revised several sections to provide clarification. Revised Sections 1.4 through 1.5, 3.1, 3.2, 3.4, 3.5, 4.1 through 4.3, 5.1 through 5.9, 7.1 through 8.2, and 10.1; Figures 1 through 4 and 6; and Notes 1 through 6.
T 399-26	Determining In-Place Density and Moisture Content of Soil and Soil–Aggregate Using Complex Impedance Methodology	1b	Revised extensively. Added new Section 1.7.
T 401-26	Cantabro Abrasion Loss of Asphalt Mixture Specimens	2d	Revised to clarify test specimen preparation and to replace R 97 with R 67 for sampling from the roadway.
T 402-26	Electrical Resistivity of a Concrete Cylinder Tested in a Uniaxial Resistance Test	3c	Revised Sections 2.1, 7.9, 11.1, 11.5, and 12.2. Added new Note 23.
T 425M/T 425-26	Flexural Response of Ultra-High Performance Concrete (UHPC) Prisms in Four-Point Bending	3c	New full standard test method.
T 426M/T 426-26	Autogenous and Total Shrinkage Strain of Paste, Mortar, and Concrete with the Plastic-Sleeve Test Method	3c	New full standard test method.

Designation Number	Title	TS	Technical Changes
T 427-26	Producing Drawdown Panels and Measuring the Coefficient of Retroreflected Luminance (RL) of Pavement Markings in a Laboratory Panel	4c	Provisional standard TP 130 has been adopted as a full standard, T 427, without revisions.
T 428-26	Determining the Dynamic Modulus for Asphalt Mixtures Using Small Specimens in the Asphalt Mixture Performance Tester (AMPT)	2d	Provisional standard TP 132 has been adopted as a standard test, T 428, with minor revisions to Sections 6.1, 9.1.1, and 9.1.2. Also added new Section 1.2.

PART 3—PROVISIONAL STANDARDS

Numerical Sequence Table of Contents

Standard Number	Title
MP 37-18 (2025)	*Adopted*—Performance-Graded Asphalt Binder for Surface Treatments
MP 39-22 (2026)	File Format of Intelligent Construction Data
MP 40-19 (2026)	Steel-Reinforced Polyethylene (PE) Ribbed Pipe 1650- to 3000-mm (66- to 120-in.) Diameter
MP 42-22 (2026)	Steel-Reinforced Polyethylene (SRPE) Corrugated Pipe
MP 47-24 (2026)	File Format of Two-Dimensional and Three-Dimensional (2D/3D) Pavement Image Data
MP 48-23 (2026)	Equipment for Measuring Macrotexture of Pavements at Highway Speeds
MP 49-25	Dowel Bars for Concrete Street and Highway Pavement
PP 97-19 (2026)	Determination of Constant Mass
PP 98-20 (2026)	Asphalt Surface Dielectric Profiling System Using Ground Penetrating Radar
PP 102-20 (2026)	Digital Interchange of Geotechnical Data
PP 103-25	*Adopted*—Sample Preparation and Polishing of Unbound Aggregates for Dynamic Friction Testing
PP 104-25	*Adopted*—Sample Preparation and Polishing of Asphalt Mixture Specimens for Dynamic Friction Testing
PP 106-26	Assessment of Static Performance in Transverse Pavement Profiling Systems
PP 107-26	Assessment of Body Motion Cancellation in Transverse Pavement Profiling Systems
PP 108-25 (2026)	Assessment of Navigation Drift Mitigation in Transverse Pavement Profiling Systems
PP 109-26	Assessment of Highway Performance of Transverse Pavement Profiling Systems
PP 110-26	Assessment of Ground Reference Data for Transverse Pavement Profiling System Assessment
PP 111-26	Definition of Terms Related to Transverse Pavement Profiling Systems and Ground Reference Equipment
PP 112-21 (2026)	Recognizing Surrogate Test Methods
PP 114-22 (2025)	Data Lot Names for Use with Intelligent Construction Technologies
PP 115-23 (2026)	Certification of High-Speed Macrotexture Measurement Equipment
PP 116-23 (2026)	Operating Equipment for Measuring Macrotexture at Highway Speeds
PP 117-26	Durable Green Bike Lane Surface Treatments for Asphalt and Concrete Pavements with Exposure to Vehicular Traffic
PP 118-24	AASHTO Definitions Standard for Sustainability Terms
PP 119-25	Measuring Pavement Surface Image Characteristics and Quality Using Reference Objects
PP 120-25	Measuring Pavement Surface Image Characteristics and Quality Using Field Pavement Spots
PP 121-25	Acceptance of Ground Reference Scanning Equipment for Pavement Imaging System Assessment
PP 122-25	Pavement Scan Registration and Full-Reference Image Quality Assessment
PP 123-25	Crack Annotation and Crack Length and Width Computation on 2D/3D Pavement Images
PP 124-25	Evaluating Pavement Image Crack Identification Performance

Standard Number	Title
PP 125-25	Manufacturing Reference Objects Using 3D Printing for the Assessment of 3D Pavement Imaging Systems
PP 126-25	Terminology Adopted for the Assessment of 3D Pavement Imaging Systems
PP 127-25	Development of Balanced and Durable Asphalt Mixtures with High Recycled Asphalt Materials Contents
PP 128-26	Determining the Design Resilient Modulus of Unbound Layers for Pavement Design
PP 129M/PP 129-26	Verification of the Light Weight Deflectometer (LWD)
PP 130-26	Balanced Mix Design of Asphalt Mixtures Using a Tiered Framework
PP 131-26	Determining the Rut Depth Coefficients of Dense-Graded Asphalt Mixtures
TP 130-20 (2025)	*Adopted*—Producing Drawdown Panels and Measuring the Coefficient of Retroreflected Luminance (RL) of Pavement Markings in a Laboratory Panel
TP 132-25	*Adopted*—Determining the Dynamic Modulus for Asphalt Mixtures Using Small Specimens in the Asphalt Mixture Performance Tester (AMPT)
TP 135-22 (2026)	Determining the Total Pore Volume in Hardened Concrete Using Vacuum Saturation
TP 136-22 (2026)	Determining the Degree of Saturation of Hydraulic-Cement Concrete
TP 139-22 (2026)	Determining the Relative Density (Specific Gravity) and Absorption of Lightweight Aggregate for Internally Cured Concrete Mixtures
TP 142M/TP 142-24 (2026)	Accelerated Determination of Potentially Deleterious Expansion of Concrete Cylinder due to Alkali–Silica Reaction (Accelerated Concrete Cylinder Test, ACCT)
TP 143-21 (2026)	Continuous Measurement of Sideway-Force Friction Number for Highway Pavements
TP 144-25 (2026)	Determining the Potential Alkali–Silica Reactivity of Aggregates (TFHRC-TFAST)
TP 145-25	Evaluating Rutting and Moisture Resistance of Paving Materials via Loaded Wheel Tracking with a Rubber Tire
TP 146-25	Evaluating Shear Resistance of Asphalt-Treated Recycled Pavements Applications Using a Long-Pin Fixture
TP 147-25	Evaluating Raveling in Asphalt-Treated Recycled Pavement Applications Using a Short-Pin Fixture
TP 148-25	Mechanical Rocker Ice Melting Capacity (IMC)
TP 149M/TP149-25	Dowel Bars for Concrete Street and Highway Pavement
TP 150-25	Poker Chip Test of Asphalt Binder
TP 151-26	Determining Load Transfer Efficiency (LTE) Using the Falling Weight Deflectometer
TP 152-26	Measuring-While-Drilling (MWD) for Geotechnical Site Characterization
TP 153M/TP 153-26	Quantitative Analysis of Asphalt Binders for Recycled Engine Oil Bottoms (REOB) Content
TP 154-26	Repeated Load Plastic Strain of Dense-Graded Asphalt Mixtures Using the Asphalt Mixture Performance Tester (AMPT)
TP 155-26	Determining the Failure Tensile Strain of Dense-Graded Asphalt Mixtures Using the Indirect Tensile Test Device

PART 3—PROVISIONAL STANDARDS

Subject Sequence Table of Contents

Standard Number	Title
	Aggregates
PP 103-25	*Adopted*—Sample Preparation and Polishing of Unbound Aggregates for Dynamic Friction Testing
PP 104-25	*Adopted*—Sample Preparation and Polishing of Asphalt Mixture Specimens for Dynamic Friction Testing
PP 127-25	Development of Balanced and Durable Asphalt Mixtures with High Recycled Asphalt Materials Contents
TP 139-22 (2026)	Determining the Relative Density (Specific Gravity) and Absorption of Lightweight Aggregate for Internally Cured Concrete Mixtures
TP 144-25 (2026)	Determining the Potential Alkali–Silica Reactivity of Aggregates (TFHRC-TFAST)
	Bituminous Materials
MP 37-18 (2025)	*Adopted*—Performance-Graded Asphalt Binder for Surface Treatments
PP 130-26	Balanced Mix Design of Asphalt Mixtures Using a Tiered Framework
PP 131-26	Determining the Rut Depth Coefficients of Dense-Graded Asphalt Mixtures
TP 132-25	*Adopted*—Determining the Dynamic Modulus for Asphalt Mixtures Using Small Specimens in the Asphalt Mixture Performance Tester (AMPT)
TP 145-25	Evaluating Rutting and Moisture Resistance of Paving Materials via Loaded Wheel Tracking with a Rubber Tire
TP 150-25	Poker Chip Test of Asphalt Binder
TP 153M/TP 153-26	Quantitative Analysis of Asphalt Binders for Recycled Engine Oil Bottoms (REOB) Content
TP 154-26	Repeated Load Plastic Strain of Dense-Graded Asphalt Mixtures Using the Asphalt Mixture Performance Tester (AMPT)
TP 155-26	Determining the Failure Tensile Strain of Dense-Graded Asphalt Mixtures Using the Indirect Tensile Test Device
	Box Culvert, Culvert Pipe, and Drain Tile
MP 40-19 (2026)	Steel-Reinforced Polyethylene (PE) Ribbed Pipe 1650- to 3000-mm (66- to 120-in.) Diameter
MP 42-22 (2026)	Steel-Reinforced Polyethylene (SRPE) Corrugated Pipe
	Concrete
TP 135-22 (2026)	Determining the Total Pore Volume in Hardened Concrete Using Vacuum Saturation
TP 136-22 (2026)	Determining the Degree of Saturation of Hydraulic-Cement Concrete
TP 142M/TP 142-24 (2026)	Accelerated Determination of Potentially Deleterious Expansion of Concrete Cylinder due to Alkali–Silica Reaction (Accelerated Concrete Cylinder Test, ACCT)
	Miscellaneous
PP 118-24	AASHTO Definitions Standard for Sustainability Terms
	Painting, Traffic Marking, and Signing
PP 117-26	Durable Green Bike Lane Surface Treatments for Asphalt and Concrete Pavements with Exposure to Vehicular Traffic
TP 130-20 (2025)	*Adopted*—Producing Drawdown Panels and Measuring the Coefficient of Retroreflected Luminance (RL) of Pavement Markings in a Laboratory Panel

Standard Number	Title
	Pavement Structures
MP 48-23 (2026)	Equipment for Measuring Macrotexture of Pavements at Highway Speeds
PP 115-23 (2026)	Certification of High-Speed Macrotexture Measurement Equipment
PP 116-23 (2026)	Operating Equipment for Measuring Macrotexture at Highway Speeds
TP 146-25	Evaluating Shear Resistance of Asphalt-Treated Recycled Pavements Applications Using a Long-Pin Fixture
TP 147-25	Evaluating Raveling in Asphalt-Treated Recycled Pavement Applications Using a Short-Pin Fixture
	Pavement Surface Characteristics
MP 47-24 (2026)	File Format of Two-Dimensional and Three-Dimensional (2D/3D) Pavement Image Data
PP 106-26	Assessment of Static Performance in Transverse Pavement Profiling Systems
PP 107-26	Assessment of Body Motion Cancellation in Transverse Pavement Profiling Systems
PP 108-25 (2026)	Assessment of Navigation Drift Mitigation in Transverse Pavement Profiling Systems
PP 109-26	Assessment of Highway Performance of Transverse Pavement Profiling Systems
PP 110-26	Assessment of Ground Reference Data for Transverse Pavement Profiling System Assessment
PP 111-26	Definition of Terms Related to Transverse Pavement Profiling Systems and Ground Reference Equipment
PP 119-25	Measuring Pavement Surface Image Characteristics and Quality Using Reference Objects
PP 120-25	Measuring Pavement Surface Image Characteristics and Quality Using Field Pavement Spots
PP 121-25	Acceptance of Ground Reference Scanning Equipment for Pavement Imaging System Assessment
PP 122-25	Pavement Scan Registration and Full-Reference Image Quality Assessment
PP 123-25	Crack Annotation and Crack Length and Width Computation on 2D/3D Pavement Images
PP 124-25	Evaluating Pavement Image Crack Identification Performance
PP 125-25	Manufacturing Reference Objects Using 3D Printing for the Assessment of 3D Pavement Imaging Systems
PP 126-25	Terminology Adopted for the Assessment of 3D Pavement Imaging Systems
TP 143-21 (2026)	Continuous Measurement of Sideway-Force Friction Number for Highway Pavements
TP 151-26	Determining Load Transfer Efficiency (LTE) Using the Falling Weight Deflectometer
	Quality Assurance
MP 39-22 (2026)	File Format of Intelligent Construction Data
PP 97-19 (2026)	Determination of Constant Mass
PP 98-20 (2026)	Asphalt Surface Dielectric Profiling System Using Ground Penetrating Radar
PP 112-21 (2026)	Recognizing Surrogate Test Methods
PP 114-22 (2025)	Data Lot Names for Use with Intelligent Construction Technologies
TP 148-25	Mechanical Rocker Ice Melting Capacity (IMC)

Standard Number	Title
	Reinforcing Steel and Wire Rope
MP 49-25	Dowel Bars for Concrete Street and Highway Pavement
TP 149M/TP149-25	Dowel Bars for Concrete Street and Highway Pavement
	Soils and Stabilization
PP 102-20 (2026)	Digital Interchange of Geotechnical Data
PP 128-26	Determining the Design Resilient Modulus of Unbound Layers for Pavement Design
PP 129M/PP 129-26	Verification of the Light Weight Deflectometer (LWD)
TP 152-26	Measuring-While-Drilling (MWD) for Geotechnical Site Characterization

LIST OF TECHNICAL CHANGES—PART 3

The balloted technical changes listed below are also indicated in the specifications by a change bar in the left margin. Unballoted editorial changes do not receive the change bar in reconformed standards; however, the subheader line below the designation number will indicate if the standard has been editorially revised.

Release: 2026

Designation Number	Title	TS	Technical Changes
MP 37-18 (2025)	Performance-Graded Asphalt Binder for Surface Treatments	2b	Provisional standard MP 37 has been adopted as a full standard specification, M 362, without revisions.
MP 39-22 (2026)	File Format of Intelligent Construction Data	5c	Extended one year for 2026 publication; year 8 or eight-year provisional life cycle.
MP 40-19 (2026)	Steel-Reinforced Polyethylene (PE) Ribbed Pipe 1650- to 3000-mm (66- to 120-in.) Diameter	4b	Extended one year for 2026 publication; year 8 of eight-year provisional life cycle.
MP 42-22 (2026)	Steel-Reinforced Polyethylene (SRPE) Corrugated Pipe	4b	Extended one year for 2026 publication; year 7 of eight-year provisional life cycle.
MP 47-24 (2026)	File Format of Two-Dimensional and Three-Dimensional (2D/3D) Pavement Image Data	5a	Reconfirmed for 2026 publication.
MP 48-23 (2026)	Equipment for Measuring Macrotexture of Pavements at Highway Speeds	5a	Reconfirmed for 2026 publication.
PP 97-19 (2026)	Determination of Constant Mass	5c	Extended one year for 2026 publication; year 8 of eight-year provisional life cycle.
PP 98-20 (2026)	Asphalt Surface Dielectric Profiling System Using Ground Penetrating Radar	5c	Extended one year for 2026 publication; year 8 of eight-year provisional life cycle.
PP 102-20 (2026)	Digital Interchange of Geotechnical Data	1b	Extended one year for 2026 publication; year 7 of eight-year provisional life cycle.
PP 103-25	Sample Preparation and Polishing of Unbound Aggregates for Dynamic Friction Testing	1c	Provisional standard PP 103 has been adopted as a full standard practice, R 133, without revisions.
PP 104-25	Sample Preparation and Polishing of Asphalt Mixture Specimens for Dynamic Friction Testing	1c	Provisional standard PP 104 has been adopted as a full standard practice, R 134, without revisions.
PP 106-26	Assessment of Static Performance in Transverse Pavement Profiling Systems	5a	Extensive revisions in Section 6 and added new Annex C, describing consensus line fit. Added new Figure 3 and revised Figures 2, 5, 7, and 8. Additional minor revisions throughout.

Designation Number	Title	TS	Technical Changes
PP 107-26	Assessment of Body Motion Cancellation in Transverse Pavement Profiling Systems	5a	Revised Sections 1 and 5 equipment and reporting requirements. Flat plate changed to reference plate. New reference in Section 2.
PP 108-25 (2026)	Assessment of Navigation Drift Mitigation in Transverse Pavement Profiling Systems	5a	Reconfirmed for 2026 publication.
PP 109-26	Assessment of Highway Performance of Transverse Pavement Profiling Systems	5a	Added new Section 7.1 and Figures 2, 3, 4, and 5 related to registering TPP data, including modifying other parts of Section 7. Revised other figures and added new Annex D on consensus plane fit. Deleted Section C1.2.3 to match changes in TP 107.
PP 110-26	Assessment of Ground Reference Data for Transverse Pavement Profiling System Assessment	5a	In Figures 1 and 2, revised terminology from level straightedge to level bounding beam. Changed fitting procedure from least squares to consensus plane fit. Clarified bounding beam definitions in Table 1 by adding transverse in two locations.
PP 111-26	Definition of Terms Related to Transverse Pavement Profiling Systems and Ground Reference Equipment	5a	Added definitions for consensus fit, GPS, and GNSS. Moved the location of the definitions so they are in alphabetical order and in the most logical location.
PP 112-21 (2026)	Recognizing Surrogate Test Methods	5c	Reconfirmed for 2026 publication.
PP 115-23 (2026)	Certification of High-Speed Macrotexture Measurement Equipment	5a	Reconfirmed for 2026 publication.
PP 116-23 (2026)	Operating Equipment for Measuring Macrotexture at Highway Speeds	5a	Reconfirmed for 2026 publication.
PP 117-26	Durable Green Bike Lane Surface Treatments for Asphalt and Concrete Pavements with Exposure to Vehicular Traffic	4c	References to Florida standards and MUTCD updated. Revised Table 4 friction requirements. Other minor revisions throughout.
PP 128-26	Determining the Design Resilient Modulus of Unbound Layers for Pavement Design	1a	New provisional standard practice.
PP 129M/PP 129-26	Verification of the Light Weight Deflectometer (LWD)	1b	New provisional standard practice.
PP 130-26	Balanced Mix Design of Asphalt Mixtures Using a Tiered Framework	2d	New provisional standard practice.
PP 131-26	Determining the Rut Depth Coefficients of Dense-Graded Asphalt Mixtures	2d	New provisional standard practice.

Designation Number	Title	TS	Technical Changes
TP 130-20 (2025)	Producing Drawdown Panels and Measuring the Coefficient of Retroreflected Luminance (RL) of Pavement Markings in a Laboratory Panel	4c	Provisional standard TP 130 has been adopted as a full standard test, T 427, without revisions.
TP 132-25	Determining the Dynamic Modulus for Asphalt Mixtures Using Small Specimens in the Asphalt Mixture Performance Tester (AMPT)	2d	Provisional standard TP 132 has been adopted as a standard test, T 428, with minor revisions to Sections 6.1, 9.1.1, and 9.1.2. Also added new Section 1.2.
TP 135-22 (2026)	Determining the Total Pore Volume in Hardened Concrete Using Vacuum Saturation	3c	Extended one year for 2026 publication; year 7 of eight-year provisional life cycle.
TP 136-22 (2026)	Determining the Degree of Saturation of Hydraulic-Cement Concrete	3c	Extended one year for 2026 publication; year 7 of eight-year provisional life cycle.
TP 139-22 (2026)	Determining the Relative Density (Specific Gravity) and Absorption of Lightweight Aggregate for Internally Cured Concrete Mixtures	1c	Extended one year for 2026 publication; year 7 of eight-year provisional life cycle.
TP 142M/TP 142-24 (2026)	Accelerated Determination of Potentially Deleterious Expansion of Concrete Cylinder due to Alkali–Silica Reaction (Accelerated Concrete Cylinder Test, ACCT)	3c	Reconfirmed for 2026 publication.
TP 143-21 (2026)	Continuous Measurement of Sideway-Force Friction Number for Highway Pavements	5a	Reconfirmed for 2026 publication.
TP 144-25 (2026)	Determining the Potential Alkali–Silica Reactivity of Aggregates (TFHRC-TFAST)	1c	Reconfirmed for 2026 publication.
TP 151-26	Determining Load Transfer Efficiency (LTE) Using the Falling Weight Deflectometer	5a	New provisional standard test.
TP 152-26	Measuring-While-Drilling (MWD) for Geotechnical Site Characterization	1b	New provisional standard test.
TP 153M/TP 153-26	Quantitative Analysis of Asphalt Binders for Recycled Engine Oil Bottoms (REOB) Content	2b	New provisional standard test.
TP 154-26	Repeated Load Plastic Strain of Dense-Graded Asphalt Mixtures Using the Asphalt Mixture Performance Tester (AMPT)	2d	New provisional standard test.
TP 155-26	Determining the Failure Tensile Strain of Dense-Graded Asphalt Mixtures Using the Indirect Tensile Test Device	2d	New provisional standard test.

HISTORY OF CURRENT AND FORMER AASHTO PROVISIONAL MATERIALS STANDARDS

JULY 2026

Provisional Standard Number	Title	First Publ. Year	Final Disposition	Disposit. Year	Full Std. No.
Specifications					
MP 1	Performance Graded Asphalt Binder	1994	Adopted	2002	M 320
MP 1a	Performance Graded Asphalt Binder	1996	Adopted	2005	
MP 2	Superpave Volumetric Mix Design	1996	Adopted	2004	M 323
MP 5	Bridge Deck Cathodic Protection	1996	Deleted	1999	—
MP 6	Corrugated Polyethylene Pipe, 1050 and 1200 mm Diameter	1996	Adopted	1999	M 294
MP 7	Corrugated Polyethylene Pipe, 1350 and 1500 mm Diameter	1998	Adopted	2003	
MP 8	Designing Stone Matrix Asphalt (SMA)	2000	Adopted	2008	M 325
MP 9	Compost for Erosion/Sediment Control (Filter Berms)	2003	Adopted	2010	R 51
MP 10	Compost for Erosion/Sediment Control (Compost Blankets)	2003	Adopted	2010	R 52
MP 11	Inertial Profiler	2003	Adopted	2010	M 328
MP 12	Detectable Warning Surfaces	2004	Adopted	2015	M 333
MP 13	Stainless Clad Deformed and Plain Round Steel Bars for Concrete Reinforcement	2004	Adopted	2011	M 329M/M 329
MP 14	Smoothness of Pavement at the Approaches to Weight-in-Motion (WIM) Scales	2005	Adopted	2013	M 331
MP 15	Use of Reclaimed Asphalt Shingles as an Additive in Hot-Mix Asphalt	2006	Deleted	2014	—
MP 16	Reclaimed Concrete Aggregate for Use as Coarse Aggregate in Hydraulic Cement	2007	Deleted	2016	[1]
MP 17	Pavement Ride Quality When Measured Using Inertial Profiling Systems	2004	Adopted	2010	R 54
MP 18	Uncoated, Corrosion-Resistant, Deformed and Plain Chromium Alloyed, Billet-Steel Bars for Concrete Reinforcement and Dowels	2009	Adopted	2017 (June)	M 334M/M 334 and T 372M/ T 372 through T 376M/T 376
MP 19	Performance-Graded Asphalt Binder Using Multiple Stress Creep Recovery (MSCR) Test	2010	Adopted	2014	M 332
MP 20	Steel-Reinforced Polyethylene (PE) Ribbed Pipe, 300- to 1500-mm (12- to 60-in.) Diameter	2010	Adopted	2018 (June)	M 335
MP 21	Polypropylene Pipe, 300- to 500-mm (12- to 60-in.)	2011	Adopted	2013	M 330

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MP 22	Fiber-Reinforced Polymer Composite Materials for Highway and Bridge Structures	2013	Adopted	2021	M 337
MP 23	Reclaimed Asphalt Shingles for Use in Asphalt Mixtures	2014	Adopted	2022	M 350
MP 24	Waterborne White and Yellow Traffic Paints	2014	Adopted	2022	M 348
MP 25	Performance-Graded Hot-Poured Asphalt Crack Sealant	2015	Adopted	2021	M 338
MP 26	Cotton Duck Fabric Bridge Bearings	2015	Adopted	2023	M 351
MP 27	Materials for Emulsified Asphalt Chip Seals	2016	Adopted	2022	M 340
MP 28	Materials for Microsurfacing	2016	Adopted	2022	M 341
MP 29	This standard number was inadvertently skipped.				
MP 30	Steel Wire and Welded Wire, Plain and Deformed, for Concrete Reinforcement	2017	Adopted	2018 (June)	M 336M/M 336
MP 31	Materials for Cold Recycled Mixtures with Emulsified Asphalt	2017	Adopted	2023	M 352
MP 32	Materials for Slurry Seal	2017	Adopted	2022	M 342
MP 33	Materials for Emulsified Asphalt Fog Seal	2017	Adopted	2022	M 343
MP 34	Materials for Sand Seals	2018	Adopted	2022	M 344
MP 35	Thin Overlay Treatments Using a Binder Resin System and Aggregate for Concrete Surfaces	2018	Adopted	2024	M 353
MP 36	Materials for Asphalt Tack Coat	2018	Adopted	2022	M 349
MP 37	Performance-Graded Asphalt Binder for Surface Treatments	2018	Adopted	2026	M 362
MP 38	Mix Design of Cold Recycled Mixture with Foamed Asphalt	2018	Adopted	2025	M 357
MP 39	File Format of Intelligent Construction Data	2019			
MP 40	Steel-Reinforced Polyethylene (PE) Ribbed Pipe 1650- to 3000-mm (66- to 120-in.) Diameter	2019			
MP 41	High Friction Surface Treatment for Asphalt and Concrete Pavements Using Calcined Bauxite	2019	Adopted	2024	M 354
MP 42	Steel-Reinforced Polyethylene (SRPE) Corrugated Pipe	2020			
MP 43	Materials for Emulsified Asphalt Scrub Seal	2020	Adopted	2022	M 345
MP 44	Materials for Ultrathin Bonded Wearing Course	2020	Adopted	2022	M 346
MP 45	Materials for Full-Depth Reclamation Mixtures with Emulsified Asphalt	2020	Adopted	2022	M 347
MP 46	Balanced Mix Design	2020	Adopted	2025	M 358

Provisional Standard Number	Title	First Publ. Year	Final Disposition	Disposit. Year	Full Std. No.
MP 47	File Format of Two-Dimensional and Three-Dimensional (2D/3D) Pavement Image Data	2021			
MP 48	Equipment for Measuring Macrotexture of Pavements at Highway Speeds	2023			
MP 49	Dowel Bars for Concrete Street and Highway Pavement	2025			[2]
Practices					
PP 1	Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV)	1994	Adopted	2002	R 28
PP 2	Mixture Conditioning of Hot-Mix Asphalt (HMA)	1995	Adopted	2002	R 30
PP 3	Preparing Hot Mix Asphalt (HMA) Specimens by Means of the Rolling Wheel Compactor	1995	Deleted	2003	—
PP 5	Laboratory Evaluation of Modified Asphalt Systems	1994	Deleted	1998	—
PP 6	Grading or Verifying the Performance Grade of an Asphalt Binder	1994	Adopted	2002	R 29
PP 7	Calibrating the Load Cell and Deflection Sensors for a Falling Weight Deflectometer	1995	Adopted	2003	R 32
PP 8	Calibrating the Reference Load Cell Used for reference Calibrations for Falling Weight Deflectometer	1995	Adopted	2003	R 33
PP 10	Operational Guidelines on Test Pits for Evaluating Pavement Performance	1994	Deleted	1995	—[3]
PP 19	Volumetric Analysis of Compacted Hot Mix Asphalt (HMA)	1994	Deleted	2002	—
PP 20	Evaluating the Performance of Crack Sealing Treatments on Asphalt Surfaced Pavement	1995	Deleted	2004	—
PP 21	Testing and Evaluating Cold Mix Patching Materials	1995	Deleted	2002	—
PP 22	Selecting and Specifying Crack Sealants for Asphalt Surfaced Pavement	1996	Deleted	2002	—
PP 23	Evaluating the Condition of Portland Cement Concrete Bridge Components	1996	Deleted	2003	—
PP 25	Evaluating the Performance of Joint Seals in Portland Cement Concrete Pavement	1996	Deleted	2002	—
PP 26	Certifying Suppliers of Performance Graded Asphalt Binders	1997	Adopted	2001	R 26
PP 28	Superpave Volumetric Design for Hot-Mix Asphalt (HMA)	1996	Adopted	2004	R 35
PP 29	Evaluating Deicing Chemicals	1996	Adopted	2003	R 34
PP 30	Evaluation of Coating Systems with Zinc Rich Primers	1996	Adopted	2002	R 31
PP 31	Measuring Pavement Profile Using a Rod and Level	1997	Adopted	2005	R 40
PP 32	Measuring Pavement Profile Using a Dipstick®	1997	Adopted	2005	R 41[4]

Provisional Standard Number	Title	First Publ. Year	Final Disposition	Disposit. Year	Full Std. No.
PP 33	Decommissioning Geotechnical Exploratory Boreholes	1997	Adopted	1998	R 22
PP 34	Estimating the Cracking Tendency of Concrete	1998	Adopted	2008	T 334
PP 35	Evaluation of Superpave™ Gyratory Compactors (SGCs)	1998	Deleted	2007	—
PP 36	Assessment of Corrosion of Steel Piling for Non-Marine Applications	1998	Adopted	2002	R 27
PP 37	Determination of International Roughness Index (IRI) to Quantify Roughness of Pavements	1999	Combined and Adopted	2007	R 43
PP 37M	Quantifying Roughness of Pavements	1999			
PP 38	Determining Maximum Rut Depth in Asphalt Pavements	1999	Adopted	2008	R 48[5]
PP 39	Estimating Faulting of Concrete Pavements	1999	Adopted	2004	R 36
PP 40	Application of Ground Penetrating Radar (GPR) to Highways	2000	Adopted	2004	R 37
PP 41	Designing Stone Matrix Asphalt (SMA)	2000	Adopted	2008	R 46
PP 42	Determination of Low-Temperature Performance Grade (PG) of Asphalt Binders	2001	Adopted	2009	R 49
PP 44	Quantifying Cracks in Asphalt Pavement Surface	2001	Adopted	2010	R 55[6]
PP 45	Qualification of Deformed and Plain Steel Bar Producing Mills	2001	Adopted	2010	R 53[7]
PP 46	Geosynthetic Reinforcement of the Aggregate Base Course of Flexible Pavement Structures	2001	Adopted	2009	R 50
PP 47	Evaluation of Different Superpave™ Gyratory Compactors (SGCs) Used in the Design and the Field Management of Superpave™ Mixtures	2002	Deleted	2009	—
PP 48	Evaluation of the Superpave™ Gyratory Compactor (SGC) Internal Angle of Gyration	2003	Deleted	2010	—
PP 49	Certification of Inertial Profiling Systems	2003	Adopted	2010	R 56
PP 50	Operating Inertial Profilers and Evaluating Pavement Profiles	2003	Adopted	2010	R 57
PP 51	Pavement Ride Quality When Measured Using Inertial Profiling Systems	2003	Adopted	2010	R 54[8]
PP 52	Developing a Quality Assurance Plan for Hot-Mix Asphalt (HMA)	2005	Adopted	2006	R 42
PP 53	Design Considerations When Using Reclaimed Asphalt Shingles (RAS) in New Hot Mix Asphalt (HMA)	2006	Deleted	2014	—
PP 54	Match Curing of Concrete Test Specimens	2006	Adopted	2016 (April)	R 72
PP 55	Overcoating Field Test Program for Evaluating Protective Coatings on Existing Bridges or Salvaged Beams	2006	Deleted	2012	—

Provisional Standard Number	Title	First Publ. Year	Final Disposition	Disposit. Year	Full Std. No.
PP 56	Evaluating the Engineering and Environmental Suitability of Recycled Materials	2006	Adopted	2014	R 65
PP 57	Establishing Requirements for and Performing Equipment Calibrations, Standardizations, and Checks	2006	Adopted	2012	R 61
PP 58	Static Segregation of Hardened Self-Consolidating Concrete (SCC) Cylinders	2008	Adopted	2017 (April)	R 81[9]
PP 59	Coal Combustion Fly Ash for Embankments	2009	Deleted	2016 (August)	—
PP 60	Preparation of Cylindrical Performance Test Specimens Using the Superpave Gyratory Compactor (SGC)	2009	Adopted	2017 (August)	R 83
PP 61	Developing Dynamic Modulus Master Curves for Asphalt Mixtures Using the Asphalt Mixture Performance Tester (AMPT)	2009	Adopted	2017 (August)	R 84
PP 62	Developing Dynamic Modulus Master Curves for Hot Mix Asphalt (HMA)	2009	Adopted	2013	R 62
PP 63	Pipe Joint Selection for Highway Culvert and Storm Drains	2009	Adopted	2017 (June)	R 82
PP 64	Determining Aggregate Source Shape Values from Digital Image Analysis Shape Properties	2010	Adopted	2018 (August)	R 91
PP 65	Determining the Reactivity of Concrete Aggregates and Selecting Appropriate Measures for Preventing Deleterious Expansion in New Concrete Construction	2010	Adopted	2016 (April)	R 80
PP 66	Determination of Long-Term Strength for Geosynthetic Reinforcement	2010	Adopted	2015	R 69
PP 67	Quantifying Cracks in Asphalt Pavement Surfaces from Collected Images Utilizing Automated Methods	2010	Adopted	2018 (April)	R 85
PP 68	Collecting Images of Pavement Surfaces for Distress Detection	2010	Adopted	2018 (April)	R 86
PP 69	Determining Pavement Deformation Parameters and Cross Slope from Collected Transverse Profiles	2010	Adopted	2018 (April)	R 87
PP 70	Collecting the Transverse Pavement Profile	2010	Adopted	2018 (April)	R 88
PP 71	Certifying Suppliers of Emulsified Asphalt	2011	Adopted	2016 (August)	R 77
PP 72	Recovering Residue from Emulsified Asphalt Using Low-Temperature Evaporative Techniques	2011	Adopted	2016 (August)	R 78

Provisional Standard Number	Title	First Publ. Year	Final Disposition	Disposit. Year	Full Std. No.
PP 73	Quality Assurance, Job Site Quality Control, and Reapplication of Protective Sealers for Portland Cement Concrete	2011	Adopted	2019 (June)	R 94
PP 74	Determination of Size and Shape of Glass Beads Used in Traffic Markings by Means of Computerized Optical Method	2011	Adopted	2020 (June)	R 98
PP 75	Vacuum Drying Compacted Asphalt Specimens	2013	Adopted	2016 (August)	R 79
PP 76	Troubleshooting Asphalt Specimen Volumetric Differences between Superpave Gyratory Compactors (SGCs) Used in the Design and the Field Management of Superpave Mixtures	2013	Adopted	2021	R 99
PP 77	Materials Selection and Mixture Design of Permeable Friction Courses (PFCs)	2014	Adopted	2022	R 113
PP 78	Design Considerations When Using Reclaimed Asphalt Shingles (RAS) in Asphalt Mixtures	2014	Adopted	2022	R 114
PP 79	High Friction Surface Treatment for Asphalt and Concrete Pavements	2014	Reclassified	2019 (June)	MP 41
PP 80	Continuous Thermal Profile of Asphalt Mixture Construction	2014	Adopted	2022	R 110
PP 81	Intelligent Compaction Technology for Embankment and Asphalt Pavement Applications	2014	Adopted	2022	R 111
PP 82	Emulsified Asphalt Chip Seal Design	2016	Adopted	2022	R 102
PP 83	Microsurfacing Design	2016	Adopted	2022	R 103
PP 84	Performance Engineered Concrete Pavement Mixtures	2017	Adopted	2022	R 101
PP 85	Grading or Verifying the Sealant Grade (SG) of a Hot-Poured Asphalt Crack Sealant	2017	Adopted	2023	R 116
PP 86	Emulsified Asphalt Content of Cold Recycled Mixture Designs	2017	Adopted	2023	R 117
PP 87	Slurry Seal Design	2017	Adopted	2022	R 104
PP 88	Emulsified Asphalt Fog Seal Design	2017	Adopted	2022	R 105
PP 89	Grinding the Ends of Cylindrical Concrete Specimens	2018	Adopted	2024	R 119M/R 119
PP 90	Sand Seal Design	2018	Adopted	2022	R 106
PP 91	Emulsified Asphalt Scrub Seal Design	2018	Adopted	2022	R 107
PP 92	Preparation of Test Specimens Using the Plastic Mold Compaction Device	2018	Adopted	2024	R 120
PP 93	Asphalt Tack Coat Design	2018	Adopted	2022	R 112

Provisional Standard Number	Title	First Publ. Year	Final Disposition	Disposit. Year	Full Std. No.
PP 94	Determining Optimum Asphalt Content of Cold Recycled Mixture with Foamed Asphalt	2018	Adopted	2025	R 128
PP 95	Preparation of Indirect Tension Performance Test Specimens	2018	Adopted	2025	R 129
PP 96	Developing Dynamic Modulus Master Curves for Hot Mix Asphalt (HMA) Using the Indirect Tension Testing Method	2018	Adopted	2025	R 130
PP 97	Determination of Constant Mass	2019			
PP 98	Asphalt Surface Dielectric Profiling System Using Ground Penetrating Radar	2019			
PP 99	Preparation of Small Cylindrical Performance Test Specimens Using the Superpave Gyratory Compactor (SGC) or Field Cores	2019	Adopted	2025	R 131
PP 100	Ultrathin Bonded Wearing Course Design	2020	Adopted	2022	R 108
PP 101	Emulsified Asphalt Content of Full-Depth Reclamation Mixture Design	2020	Adopted	2022	R 109
PP 102	Digital Interchange of Geotechnical Data	2020			
PP 103	Sample Preparation and Polishing of Unbound Aggregates for Dynamic Friction Testing	2020	Adopted	2026	R 133
PP 104	Sample Preparation and Polishing of Asphalt Mixture Specimens for Dynamic Friction Testing	2020	Adopted	2026	R 134
PP 105	Balanced Design of Asphalt Mixtures	2020	Adopted	2025	R 132
PP 106	Assessment of Static Performance in Transverse Pavement Profiling Systems	2021			
PP 107	Assessment of Body Motion Cancellation in Transverse Pavement Profiling Systems	2021			
PP 108	Assessment of Navigation Drift Mitigation in Transverse Pavement Profiling Systems	2021			
PP 109	Assessment of Highway Performance in Transverse Pavement Profiling Systems	2021			
PP 110	Assessment of Ground Reference Data for Transverse Pavement Profiling System Assessment	2021			
PP 111	Definition of Terms Related to Transverse Pavement Profiling Systems and Ground Reference Equipment	2021			
PP 112	Recognizing Surrogate Test Methods	2021			
PP 113	Characterizing the Relaxation Behavior of Asphalt Binders Using the Delta T_c (ΔT_c) Parameter	2021	Adopted	2023	R 118
PP 114	Data Lot Names for Use with Intelligent Construction Technologies	2022			

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PP 115	Certification of High-Speed Macrotexture Measurement Equipment	2023			
PP 116	Operating Equipment for Measuring Macrotexture at Highway Speeds	2023			
PP 117	Durable Green Bike Lane Surface Treatments for Asphalt and Concrete Pavements	2023			
PP 118	AASHTO Definitions Standard for Sustainability Terms	2024			
PP 119	Measuring Pavement Surface Image Characteristics and Quality Using Reference Objects	2025			
PP 120	Measuring Pavement Surface Image Characteristics and Quality Using Field Pavement Spots	2025			
PP 121	Acceptance of Ground Reference Scanning Equipment for Pavement Imaging System Assessment	2025			
PP 122	Pavement Scan Registration and Full-Reference Image Quality Assessment	2025			
PP 123	Crack Annotation and Crack Length and Width Computation on 2D/3D Pavement Images	2025			
PP 124	Evaluating Pavement Image Crack Identification Performance	2025			
PP 125	Manufacturing Reference Objects Using 3D Printing for the Assessment of 3D Pavement Imaging Systems	2025			
PP 126	Terminology Adopted for the Assessment of 3D Pavement Imaging Systems	2025			
PP 127	Development of Balanced and Durable Asphalt Mixtures with High Recycled Asphalt Materials Contents	2025			
PP128	Determining the Design Resilient Modulus of Unbound Layers for Pavement Design	2026			
PP129M-PP129	Verification of the Light Weight Deflectometer (LWD)	2026			
PP130	Balanced Mix Design of Asphalt Mixtures Using a Tiered Framework	2026			
PP131	Determining the Rut Depth Coefficients of Dense-Graded Asphalt Mixtures	2026			
Tests					
TP 1	Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)	1994	Adopted	2002	T 313
TP 2	Quantitative Extraction and Recovery of Asphalt Binder from Hot Mix Asphalt (HMA)	1995	Adopted	2003	T 319

Provisional Standard Number	Title	First Publ. Year	Final Disposition	Disposit. Year	Full Std. No.
TP 3	Determining the Fracture Properties of Asphalt Binder in Direct Tension (DT)	1994	Adopted	2002	T 314
TP 4	Preparing and Determining the Density of Hot-Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	1994	Adopted	2001	T 312
TP 5	Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	1995	Adopted	2002	T 315
TP 6	Measurement of Initial Asphalt Adsorption and Desorption in the Presence of Moisture	1994	Deleted	1999	—
TP 7	Determining the Permanent Deformation and Fatigue Cracking Characteristics of Hot Mix Asphalt (HMA) Using the Simple Shear Test (SST) Device	1995	Adopted	2003	T 320
TP 8	Determining the Fatigue Life of Compacted Hot Mix Asphalt (HMA) Subjected to Repeated Flexural Bending	1995	Adopted	2003	T 321
TP 9	Determining the Creep Compliance and Strength of Hot Mix Asphalt (HMA) Using the Indirect Tensile Test Device	1995	Adopted	2003	T 322
TP 10	Thermal Stress Restrained Specimen Tensile Strength	1994	Deleted	2002	—
TP 11	Rapid Determination of Corrosion Rate of Uncoated Steel in Reinforced Concrete	1996	Deleted	2004	—
TP 12	Determining the Hydraulic Fracture of Coarse Aggregate	1994	Deleted	2001	—
TP 14	Accelerated Detection of Potentially Deleterious Expansion of Mortar Bars Due to Alkali-Silica Reaction	1994	Adopted	1996	T 303
TP 17	Resistance of Concrete to Rapid Freezing and Thawing	1994	Deleted	2002	—
TP 18	Method for Determining the Fundamental Transverse Frequency and Quality Factor of Concrete Prism Specimens	1995	Deleted	2003	—
TP 19	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	1994	Deleted	2002	—
TP 20	Compressive Strength of Cylindrical Concrete Specimens	1994	Adopted	1997	T 22M/T 22
TP 22	Rapid Determination of the Chloride Penetrability of Concrete Using AC Impedance	1995	Deleted	2003	—
TP 23	Water Content of Freshly Mixed Concrete Using Microwave Oven Drying	1994	Adopted	2002	T 318
TP 24	Determining the Density of Freshly Mixed Concrete in Place Using a Twin-Probe Nuclear Density Gauge	1995	Deleted	2003	—
TP 26	Determining the Relative Permeability of Concrete by Surface Air Flow	1995	Deleted	2003	—
TP 28	Detection of Voids under Rigid Pavement	1995	Deleted	2003	—

Provisional Standard Number	Title	First Publ. Year	Final Disposition	Disposit. Year	Full Std. No.
TP 29	Determining the Shear Strength at the Interface of Bonded Layers of Portland Cement Concrete	1995	Adopted	2003	T 323
TP 31	Determining the Resilient Modulus of Bituminous Mixtures by Indirect Tension	1995	Deleted	2003	—
TP 33	Uncompacted Void Content of Fine Aggregate (As Influenced by Particle Shape, Surface Texture, and Grading)	1994	Adopted	1996	T 304
TP 34	Determining Moisture Sensitivity Characteristics of Compacted Bituminous Mixtures Subjected to Hot and Cold Climate Conditions	1994	Deleted	1999	—
TP 35	Determining the Relative Effectiveness of Penetrating Concrete Sealers by Electrical Resistance	1994	Deleted	2002	—
TP 36	Evaluating Asphalt-Covered Concrete Bridge Decks Using Pulsed Radar	1994	Deleted	2002	—
TP 37	Determining the Condition Rating of Preformed Membranes on Concrete Bridge Decks Using Pulse Velocity	1994	Deleted	2002	—
TP 39	Determining the Maximum Specific Gravity of Bituminous Paving Mixtures	1995	Adopted	1999	T 209
TP 40	Determining the Percent Asphalt Required for Coating Aggregates Used in Cold Mix Patching Materials	1995	Deleted	2002	—
TP 41	Determining the Percent Asphalt Required Based on Stripping of Aggregates Used in Cold Mix Patching Materials	1995	Deleted	2002	—
TP 42	Percent Asphalt Based on Drainability of Aggregates Used in Cold Mix Patching Materials	1995	Deleted	2002	—
TP 43	Workability of Cold Mix Patching Materials	1995	Deleted	2002	—
TP 44	Cohesion of Cold Mix Patching Materials	1995	Deleted	2002	—
TP 46	Determining the Resilient Modulus of Soils and Aggregate Materials	1995	Adopted	1999	T 307
TP 47	Determining the Ecological Effects of Deicing Chemicals	1995	Deleted	2002	—
TP 48	Viscosity Determination of Asphalt Binder Using Rotational Viscometer	1995	Adopted	2002	T 316
TP 50	Determining the Relative Effectiveness of Penetrating Concrete Sealers by Water Absorption	1996	Deleted	2004	—
TP 51	Testing Cathodic Protection Materials and Systems for Bridge Decks	1996	Deleted	2004	—
TP 52	Estimating the Strength of Concrete in Transportation Construction by Maturity Tests	1996	Adopted	2004	T 325
TP 53	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	1996	Adopted	1999	T 308

Provisional Standard Number	Title	First Publ. Year	Final Disposition	Disposit. Year	Full Std. No.
TP 54	Determining Early Stiffening Characteristics of Portland Cement Paste (Mini Slump Cone Method)	1997	Deleted	2004	—
TP 55	Determining Chloride Ions in Concrete and Concrete Materials by Specific Ion Probe	1998	Adopted	2007	T 332
TP 56	Uncompacted Void Content of Coarse Aggregate (As Influenced by Particle Shape, Surface Texture, and Grading)	1998	Adopted	2005	T 326
TP 57	Methylene Blue Value of Clays, Mineral Fillers, and Fines	1998	Adopted	2007	T 330
TP 58	Resistance of Coarse Aggregate to Degradation by Abrasion in the Micro-Deval Apparatus	1999	Adopted	2005	T 327
TP 59	Determining Air Content of Hardened Portland Cement Concrete by High-Pressure Air Meter	1999	Adopted	2015	T 356
TP 60	Coefficient of Thermal Expansion of Hydraulic Cement Concrete	2000	Adopted	2009	T 336
TP 61	Determining the Percentage of Fracture in Coarse Aggregate	2002	Adopted	2009	T 335
TP 62	Determining Dynamic Modulus of Hot-Mix Asphalt Concrete Mixtures	2003	Adopted	2011	T 342
TP 63	Determining Rutting Susceptibility of Asphalt Paving Mixtures Using the Asphalt Pavement Analyzer (APA)	2003	Adopted	2010	T 340
TP 64	Predicting Chloride Penetration of Hydraulic Cement Concrete by the Rapid Migration Procedure	2003	Adopted	2015	T 357
TP 65	Non-Instrumental Determination of Metallic Zinc in Zinc-Rich Primers	2003	Adopted	2009	T 337
TP 66	Analysis of Structural Steel Coatings for Hindered Amine Light Stabilizer (HALS)	2003	Adopted	2009	T 338
TP 67	Analysis of Structural Steel Coatings for Isocyanate Content	2003	Adopted	2009	T 339
TP 68	Density of In-Place Hot-Mix Asphalt (HMA) Pavement by Electronic Surface Contact Devices	2004	Adopted	2012	T 343
TP 69	Bulk Specific Gravity and Density of Compacted Asphalt Mixtures Using Automatic Vacuum Sealing Method	2004	Adopted	2007	T 331
TP 70	Multiple Stress Creep Recovery (MSCR) Test of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	2007	Adopted	2014	T 350
TP 71	Evaluation of Superpave Gyratory Compactor (SGC) Internal Angle of Gyration Using Simulated Loading	2007	Adopted	2012	T 344

Provisional Standard Number	Title	First Publ. Year	Final Disposition	Disposit. Year	Full Std. No.
TP 72	Quantitative Determination of the Percentage of Lime in Hot Mix Asphalt (HMA)	2008	Adopted	2016 (August)	T 362
TP 73	Slump Flow of Self-Consolidating Concrete (SCC)	2008	Adopted	2013	T 347
TP 74	Passing Ability of Self-Consolidating Concrete (SCC) by JRing	2008	Adopted	2012	T 345
TP 75	Air-Void Characteristics of Freshly Mixed Concrete by Buoyancy Change	2008	Adopted	2013	T 348
TP 76	Measurement of Tire/Pavement Noise Using the On-Board Sound Intensity (OBSI) Method	2008	Adopted	2016 (April)	T 360
TP 77	Specific Gravity and Absorption of Aggregate by Volumetric Immersion Method	2009	Adopted	2015	T 354
TP 78	Detecting the Presence of Phosphorous in Asphalt Binder	2009	Adopted	2017 (August)	T 377[c]
TP 79	Determining the Dynamic Modulus and Flow Number for Asphalt Mixtures Using the Asphalt Mixture Performance Tester (AMPT)	2009	Adopted	2017 (August)	T 378
TP 80	Visual Stability Index (VSI) of Self-Consolidating Concrete (SCC)	2009	Adopted	2014	T 351
TP 81	Determining Aggregate Shape Properties by Means of Digital Image Analysis	2010	Adopted	2018 (August)	T 381
TP 82	Bulk Specific Gravity (G_{mb}) of Compacted Bituminous Mixtures Using Water Displacement Measured by Pressure Sensor	2010	Deleted	2018 (August)	—
TP 83	Sampling and Fabrication of 50-mm (2-in.) Cube Specimens Using Grout (Non-Shrink) or Mortar	2010	Adopted	2014	R 64
TP 84	Evaluation of Adhesive Anchors in Concrete Under Sustained Loading Conditions	2010	Deleted	2018 (June)	—
TP 85	Apparent Viscosity of Hot-Poured Bituminous Crack Sealant Using Brookfield Rotational Viscometer RV Series Instrument	2010	Adopted	2017 (June)	T 366
TP 86	Accelerated Aging of Bituminous Sealants and Fillers with a Vacuum Oven	2010	Adopted	2017 (June)	T 367[10]
TP 87	Measure Low Temperature Flexural Creep Stiffness of Bituminous Sealants and Fillers by Bending Beam Rheometer (BBR)	2010	Adopted	2017 (June)	T 368
TP 88	Evaluation of the Low-Temperature Tensile Property of Bituminous Sealants by Direct Tension Test	2010	Adopted	2017 (June)	T 369
TP 89	Measuring Adhesion of Hot-Poured Crack Sealant Using Direct Adhesion Tester	2010	Adopted	2017 (June)	T 370

Provisional Standard Number	Title	First Publ. Year	Final Disposition	Disposit. Year	Full Std. No.
TP 90	Measuring Interfacial Fracture Energy of Hot-Poured Crack Sealant Using a Blister Test	2010	Adopted	2017 (June)	T 371
TP 91	Determining Asphalt Binder Bond Strength by Means of the Asphalt Bond Strength (ABS) Test	2011	Adopted	2016 (August)	T 361
TP 92	Determining the Cracking Temperature of Asphalt Binder Using the Asphalt Binder Cracking Device (ABCD)	2011	Adopted	2019 (July)	T 387
TP 93	Determining Formwork Pressure of Fresh Self-Consolidating Concrete Using Pressure Transducers	2011	Adopted	2014	T 352
TP 94	Filling Capacity of Self-Consolidating Concrete Using the Caisson Test	2011	Adopted	2013	T 349
TP 95	Surface Resistivity Indication of Concrete's Ability to Resist Chloride Ion Penetration	2011	Adopted	2015	T 358
TP 96	Protective Sealers for Portland Cement Concrete	2011	Adopted	2019 (June)	T 384
TP 97	Glass Beads Used in Pavement Markings	2011	Adopted	2012	T 346
TP 98	Determining the Influence of Road Surfaces on Vehicle Noise Using the Statistical Isolated Pass-By (SIP) Method	2011	Adopted	2020 (April)	T 389
TP 99	Determining the Influence of Road Surfaces on Traffic Noise Using the Continuous-Flow Traffic Time-Integrated Method (CTIM)	2011	Adopted	2020 (April)	T 390
TP 100	Deep Foundation Elements under Bidirectional Static Axial Compressive Load	2012	Adopted	2019 (July)	T 385
TP 101	Estimating Fatigue Resistance of Asphalt Binders Using the Linear Amplitude Sweep	2012	Adopted	2020 (July)	T 391
TP 102	Evaluation of Asphalt Release Agents	2012	Adopted	2018 (August)	T 383
TP 103	Detectable Warning Systems	2012	Adopted	2020 (June)	T 388
TP 104	Rapid Axial Compressive Load Testing of Deep Foundation Units	2013	Adopted	2019 (July)	T 386
TP 105	Determining the Fracture Energy of Asphalt Mixtures Using the Semicircular Bend Geometry (SCB)	2013	Adopted	2021	T 394

Provisional Standard Number	Title	First Publ. Year	Final Disposition	Disposit. Year	Full Std. No.
TP 106	Determination of Heavy Metal Content of Glass Beads Using X-Ray Fluorescence (XRF)	2013	Adopted	2021	T 392
TP 107	Determining the Damage Characteristic Curve of Asphalt Mixtures from Direct Tension Cyclic Fatigue Tests	2014	Adopted	2022	T 400
TP 108	Determining the Abrasion Loss of Asphalt Mixture Specimens	2014	Adopted	2022	T 401
TP 109	Nonlinear Impact Resonance Acoustic Spectroscopy (NIRAS) for Concrete Specimens with Damage from the Alkali-Silica Reaction (ASR)	2014	Adopted	2018 (April)	T 379
TP 110	Potential Alkali Reactivity of Aggregates and Effectiveness of ASR Mitigation Measures (Miniature Concrete Prism Test, MCPT)	2014	Adopted	2018 (April)	T 380
TP 111	Measuring Retroreflectivity of Pavement Marking Materials Using a Mobile Retroreflectivity Unit	2014	Adopted	2022	T 398
TP 112	Determining In-Place Density and Moisture Content of Soil and Soil-Aggregate Using Complex Impedance Methodology	2014	Adopted	2022	T 399
TP 113	Determination of Asphalt Binder Resistance to Ductile Failure Using Double-Edge-Notched Tension (DENT) Test	2015	Adopted	2023	T 405
TP 114	Determining the Interlayer Shear Strength (ISS) of Asphalt Pavement Layers	2015	Adopted	2023	T 407
TP 115	Determining the Quality of Tack Coat Adhesion to the Surface of an Asphalt Pavement in the Field or Laboratory	2015	Adopted	2023	T 408
TP 116	Rutting and Fatigue Resistance of Asphalt Mixtures Using Incremental Repeated Load Permanent Deformation (iRLPD)	2015	Adopted	2023	T 410
TP 117	Determination of the Voids of Dry Compacted Filler	2015	Adopted	2023	T 409
TP 118	Characterization of the Air-Void System of Freshly Mixed Concrete by the Sequential Pressure Method	2015	Adopted	2022	T 395
TP 119	Electrical Resistivity of a Concrete Cylinder Tested in a Uniaxial Resistance Test	2015	Adopted	2023	T 402
TP 120	Pore Index for Carbonate Coarse Aggregate	2016	Adopted	2024	T 417
TP 121	Determining the Viscosity of Emulsified Asphalt by a Rotational Paddle Viscometer	2016	Adopted	2018 (August)	T 382
TP 122	Determination of Performance Grade of Physically Aged Asphalt Binder Using Extended Bending Beam Rheometer (BBR) Method	2016	Adopted	2023	T 406
TP 123	Measuring Asphalt Binder Yield Energy and Elastic Recovery Using the Dynamic Shear Rheometer	2016	Adopted	2024	T 418

Provisional Standard Number	Title	First Publ. Year	Final Disposition	Disposit. Year	Full Std. No.
TP 124	Determining the Fracture Potential of Asphalt Mixtures Using the Illinois Flexibility Index Test (I-FIT)	2016	Adopted	2021	T 393
TP 125	Determining the Flexural Creep Stiffness of Asphalt Mixtures Using the Bending Beam Rheometer (BBR)	2016	Adopted	2024	T 419
TP 126	Evaluation of the Tracking Resistance of Hot-Poured Asphalt Crack Sealant by Dynamic Shear Rheometer (DSR)	2017	Adopted	2023	T 404
TP 127	Determining the Fracture Energy Density of Asphalt Binder Using the Binder Fracture Energy (BFE) Test	2017	Deleted	2025	—
TP 128	Evaluation of Oxidation Level of Asphalt Mixtures by a Portable Infrared Spectrometer	2017	Adopted	2025	T 420
TP 129	Vibrating Kelly Ball (VKelly) Penetration in Fresh Portland Cement Concrete	2018	Adopted	2023	T 403
TP 130	Producing Drawdown Panels and Measuring the Coefficient of Retroreflected Luminance (RL) of Pavement Markings in a Laboratory Panel	2018	Adopted	2026	T 427
TP 131	Determining Dynamic Modulus of Asphalt Concrete Using the Indirect Tension Test	2018	Adopted	2025	T 421
TP 132	Determining the Dynamic Modulus for Asphalt Mixtures Using Small Specimens in the Asphalt Mixture Performance Tester (AMPT)	2019	Adopted	2026	T 428
TP 133	Determining the Damage Characteristic Curve and Failure Criterion Using Small Specimens in the Asphalt Mixture Performance Tester (AMPT)	2019	Adopted	2023	T 411
TP 134	Stress Sweep Rutting (SSR) Test Using Asphalt Mixture Performance Tester (AMPT)	2019	Adopted	2025	T 422
TP 135	Determining the Total Pore Volume in Hardened Concrete Using Vacuum Saturation	2020			
TP 136	Determining the Degree of Saturation of Hydraulic-Cement Concrete	2020			
TP 137	Box Test in Slip Form Paving of Fresh Portland Cement Concrete	2020	Adopted	2022	T 396
TP 138	Weight and Diameter for Carbon-Steel for Steel Wire and Welded Wire Reinforcement for Concrete	2020			
TP 139	Determining the Specific Gravity and Absorption of Lightweight Aggregate for Internally Cured Concrete Mixtures	2020			
TP 140	Moisture Sensitivity Using Hydrostatic Pore Pressure to Determine Cohesion and Adhesion Strength of Compacted Asphalt Mixture Specimens	2020	Adopted	2025	T 423

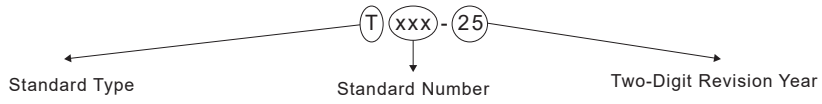
Provisional Standard Number	Title	First Publ. Year	Final Disposition	Disposit. Year	Full Std. No.
TP 141	Determining the Indirect Tensile Nflex Factor to Assess the Cracking Resistance of Asphalt Mixtures	2020	Adopted	2025	T 424
TP 142	Accelerated Determination of Potentially Deleterious Expansion of Concrete Cylinder due to Alkali–Silica Reactivity	2021	Converted	2024	TP 142M/ TP 142
TP 142M/TP 142	Accelerated Determination of Potentially Deleterious Expansion of Concrete Cylinder due to Alkali–Silica Reactivity	2024			
TP 143	Continuous Measurement of Sideway-Force Friction Number for Highway Pavements	2021			
TP 144	Determining the Potential Alkali–Silica Reactivity of Aggregates (TFHRC-TFAST)	2021			
TP 145	Evaluating Rutting and Moisture Resistance of Paving Materials via Loaded Wheel Tracking with a Rubber Tire	2024			
TP 146	Evaluating Shear Resistance of Asphalt-Treated Recycled Pavements Applications Using a Long-Pin Fixture	2025			
TP 147	Evaluating Raveling in Asphalt-Treated Recycled Pavement Applications Using a Short-Pin Fixture	2025			
TP 148	Mechanical Rocker Ice Melting Capacity (IMC)	2025			
TP 149M/ TP 149	Dowel Bars for Concrete Street and Highway Pavement	2025			[11]
TP 150	Poker Chip Test of Asphalt Binder	2025			
TP151	Determining Load Transfer Efficiency (LTE) Using the Falling Weight Deflectometer	2026			
TP152	Measuring-While-Drilling (MWD) for Geotechnical Site Characterization	2026			
TP153M-TP153	Quantitative Analysis of Asphalt Binders for Recycled Engine Oil Bottoms (REOB) Content	2026			
TP154	Repeated Load Plastic Strain of Dense-Graded Asphalt Mixtures Using the Asphalt Mixture Performance Tester (AMPT)	2026			
TP155	Determining the Failure Tensile Strain of Dense-Graded Asphalt Mixtures Using the Indirect Tensile Test Device	2026			

[1] Discontinued notice omitted.
[2] Will be incorporated into a future edition of M 254.
[3] Adopted in 1995 as R 19. R 19 was discontinued in 2004.
[4] Adopted in 2005 as R 41. R 41 was discontinued in 2019.
[5] Adopted in 2008 as R 48. R 48 was discontinued in 2018.
[6] Adopted in 2010 as R 55. R 55 was discontinued in 2018.
[7] Adopted in 2010 as R 53. R 53 was discontinued in 2015.
[8] Reclassified as a provisional specification MP 17 in 2007 then reclassified again as a practice when adopted as a full standard.
[9] Discontinued in 2016 then adopted in 2017.
[10] Adopted in 2017 (June) as T 367. T 367 was reclassified as R 95 in 2019.
[11] Will be incorporated into a future edition of T 253M/T 253.

ABOUT AASHTO DESIGNATION NUMBERS

Anatomy of a Designation Number

Components





Standard Types

Standard types are represented by a one-letter abbreviation for full standards. The letter "P" is added for provisional standards. The standard type abbreviations are as follows:

- M (Materials, full)
- T (Test, full)
- R (PRactice, full)
- MP (Materials, provisional)
- TP (Test, provisional)
- PP (Practice, provisional)

Standard Numbers

Standard numbers are sequential within standard type. A provisional that is subsequently adopted as a full standard will receive a new number; likewise a standard that changes types (e.g. test to practice).

Revised vs. Reconfirmed and Discontinued vs. Deleted

A full or provisional standard is designated as *revised* if technical changes have been balloted and approved by AASHTO's Committee on Materials and Pavements. A standard is designated as *reconfirmed* if it has undergone technical review to determine that it is up to date and in use and that it does not require revision; such a review is required:

- every four years for a full standard, and
- every one or two years for a provisional standard, depending on its progress through its 8-year provisional life cycle.

If a standard is no longer used, it may be *discontinued* by Committee vote, in which case the standard header will be published that year with a notice saying that the standard has been discontinued and giving a brief explanation as to why. In subsequent years, the standard will be *deleted* from the book, meaning that it is no longer maintained.

Designation Key

A key is provided in the line below the designation number. The information on the left indicates what year the standard was most recently technically revised, or when it was first published, adopted, or reclassified. If the standard has been reconfirmed or extended, the center tab will read "Reviewed but Not Updated:" and the year; otherwise, it will be empty. If unballoted technical corrections or clarifications have been made by the author subcommittee, the right tab will read "Editorially Revised:" and the year; otherwise, it will be empty.