

STANDARD SPECIFICATIONS
for
TRANSPORTATION MATERIALS
and
METHODS OF SAMPLING AND TESTING
and
PROVISIONAL STANDARDS

40TH EDITION

GROUP 1 (APRIL 2020)

GROUP 2 (JUNE 2020)

GROUP 3 (JULY 2020)

PART 1: SPECIFICATIONS AND PRACTICES

PART 2: TEST METHODS

PART 3: PROVISIONALS

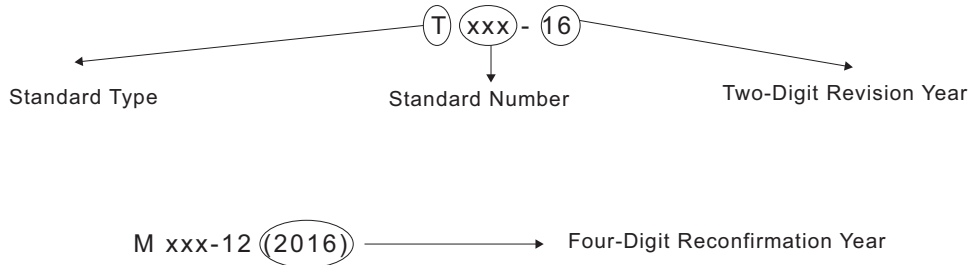
Adopted by the

AMERICAN ASSOCIATION
OF STATE HIGHWAY AND
TRANSPORTATION OFFICIALS
AASHTO

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. Thus, a provisional that is subsequently adopted as a full standard will receive a new number.

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 Highways Subcommittee on Materials. 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 Subcommittee 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 In subsequent years, the standard will be *deleted* from the book, meaning that it is no longer maintained.

PART 1—STANDARD SPECIFICATIONS AND STANDARD PRACTICES

Subject Sequence Table of Contents

Master List (All Release Groups)

STD. NO.	TITLE	GROUP (MONTH)
AGGREGATES		
M 6-13 (2018)	Fine Aggregate for Hydraulic Cement Concrete	3 (July)
M 17-11 (2019)	Mineral Filler for Bituminous Paving Mixtures	3 (July)
M 29-12 (2020)	Fine Aggregate for Bituminous Paving Mixtures	3 (July)
M 43-05 (2013)	Sizes of Aggregate for Road and Bridge Construction	3 (July)
M 45-16 (2020)	Aggregate for Masonry Mortar	3 (July)
M 80-13 (2017)	Coarse Aggregate for Hydraulic Cement Concrete	3 (July)
M 195-11 (2019)	Lightweight Aggregates for Structural Concrete	3 (July)
M 327-19	Processing Additions for Use in the Manufacture of Hydraulic Cements	1 April
R 76-16 (2020)	Reducing Samples of Aggregate to Testing Size	3 (July)
R 90-18	Sampling Aggregate Products	3 (July)
R 91-18	Determining Aggregate Source Shape Values from Digital Image Analysis Shape Properties	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
BITUMINOUS MATERIALS		
M 81-92 (2017)	Cutback Asphalt (Rapid-Curing Type)	3 (July)
M 82-17	Cutback Asphalt (Medium-Curing Type)	3 (July)
M 140-20	Emulsified Asphalt	3 (July)
M 156-13 (2017)	Requirements for Mixing Plants for Hot-Mixed, Hot-Laid Bituminous Paving Mixtures	3 (July)
M 208-18	Cationic Emulsified Asphalt	3 (July)
M 226-80 (2017)	Viscosity-Graded Asphalt Cement	3 (July)
M 316-18	Polymer-Modified Emulsified Asphalt	3 (July)
M 320-17	Performance-Graded Asphalt Binder	3 (July)
M 323-13	Superpave Volumetric Mix Design	3 (July)
M 325-08 (2017)	Stone Matrix Asphalt (SMA)	3 (July)
M 327-19	Processing Additions for Use in the Manufacture of Hydraulic Cements	1 April
M 332-20	Performance-Graded Asphalt Binder Using Multiple Stress Creep Recovery (MSCR) Test	3 (July)
R 5-17	Selection and Use of Emulsified Asphalts	3 (July)
R 15-18	Asphalt Additives and Modifiers	3 (July)
R 26-01 (2018)	Certifying Suppliers of Performance-Graded Asphalt Binders	3 (July)
R 28-12 (2016)	Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV)	3 (July)
R 29-15 (2019)	Grading or Verifying the Performance Grade (PG) of an Asphalt Binder	3 (July)
R 30-02 (2019)	Mixture Conditioning of Hot Mix Asphalt (HMA)	3 (July)
R 35-17	Superpave Volumetric Design for Asphalt Mixtures	3 (July)
R 46-08 (2017)	Designing Stone Matrix Asphalt (SMA)	3 (July)
R 47-19	Reducing Samples of Asphalt Mixtures to Testing Size	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
BITUMINOUS MATERIALS		
R 49-09 (2018)	Determination of Low-Temperature Performance Grade (PG) of Asphalt Binders	3 (July)
R 59-11 (2019)	Recovery of Asphalt Binder from Solution by Abson Method	3 (July)
R 62-13 (2017)	Developing Dynamic Modulus Master Curves for Asphalt Mixtures	3 (July)
R 66-16 (2020)	Sampling Asphalt Materials	3 (July)
R 67-20	Sampling Asphalt Mixtures after Compaction (Obtaining Cores)	3 (July)
R 68-15 (2019)	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	3 (July)
R 77-16 (2020)	Certifying Suppliers of Emulsified Asphalt	3 (July)
R 78-16 (2020)	Recovering Residue from Emulsified Asphalt Using Low-Temperature Evaporative Techniques	3 (July)
R 79-19	Vacuum Drying Compacted Asphalt Specimens	3 (July)
R 83-17	Preparation of Cylindrical Performance Test Specimens Using the Superpave Gyrotory Compactor (SGC)	3 (July)
R 84-17	Developing Dynamic Modulus Master Curves for Asphalt Mixtures Using the Asphalt Mixture Performance Tester (AMPT)	3 (July)
R 92-18	Evaluating the Elastic Behavior of Asphalt Binders Using the Multiple Stress Creep Recovery (MSCR) Test	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
BOX CULVERT, CULVERT PIPE, AND DRAIN TILE		
M 36-16 (2020)	Corrugated Steel Pipe, Metallic-Coated, for Sewers and Drains	2 (June)
M 86M/M 86-20	Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe	2 (June)
M 167M/M 167-17	Corrugated Steel Structural Plate, Zinc-Coated, for Field-Bolted Pipe, Pipe-Arches, and Arches	2 (June)
M 170-20	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe	2 (June)
M 170M-20	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe [Metric]	2 (June)
M 175M/M 175-05 (2020)	Perforated Concrete Pipe	2 (June)
M 176M/M 176-20	Porous Concrete Pipe	2 (June)
M 178M/M 178-20	Concrete Drain Tile	2 (June)
M 190-04 (2017)	Asphalt-Coated Corrugated Metal Culvert Pipe and Pipe-Arches	2 (June)
M 196-16	Corrugated Aluminum Pipe for Sewers and Drains	2 (June)
M 197-20	Aluminum Alloy Sheet for Corrugated Aluminum Pipe	2 (June)
M 199M/M 199-17	Precast Reinforced Concrete Manhole Sections	2 (June)
M 206M/M 206-20	Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe	2 (June)
M 207M/M 207-20	Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe	2 (June)
M 218-03 (2020)	Steel Sheet, Zinc-Coated (Galvanized), for Corrugated Steel Pipe	2 (June)
M 219-92 (2017)	Corrugated Aluminum Alloy Structural Plate for Field-Bolted Pipe, Pipe-Arches, and Arches	2 (June)
M 242M/M 242-20	Reinforced Concrete D-Load Culvert, Storm Drain, and Sewer Pipe	2 (June)
M 243-96 (2017)	Field-Applied Coating of Corrugated Metal Structural Plate for Pipe, Pipe-Arches, and Arches	2 (June)
M 245-20	Corrugated Steel Pipe, Polymer-Precoated, for Sewers and Drains	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
BOX CULVERT, CULVERT PIPE, AND DRAIN TILE		
M 246-15 (2019)	Steel Sheet, Metallic-Coated and Polymer-Precoated, for Corrugated Steel Pipe	2 (June)
M 252-20	Corrugated Polyethylene Drainage Pipe	2 (June)
M 259-20	Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers	2 (June)
M 259M-17	<i>Discontinued</i> —Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers [Metric]	2 (June)
M 262-11 (2020)	Concrete Pipe and Related Products	2 (June)
M 273-20	Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers with Less Than 2 ft of Cover Subjected to Highway Loadings	2 (June)
M 273M-17	<i>Discontinued</i> —Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers with Less Than 0.6 m of Cover Subjected to Highway Loadings [Metric]	2 (June)
M 274-87 (2017)	Steel Sheet, Aluminum-Coated (Type 2), for Corrugated Steel Pipe	2 (June)
M 278-15	Class PS46 Poly(Vinyl Chloride) (PVC) Pipe	2 (June)
M 289-91 (2017)	Aluminum-Zinc Alloy Coated Sheet Steel for Corrugated Steel Pipe	2 (June)
M 294-18	Corrugated Polyethylene Pipe, 300- to 1500-mm (12- to 60-in.) Diameter	2 (June)
M 304-11 (2015)	Poly(Vinyl Chloride) (PVC) Profile Wall Drain Pipe and Fittings Based on Controlled Inside Diameter	2 (June)
M 306-10 (2019)	Drainage, Sewer, Utility, and Related Castings	2 (June)
M 326-18	Polyethylene (PE) Liner Pipe, 300- to 1600-mm Diameter, Based on Controlled Outside Diameter	2 (June)
M 330-20	Polypropylene Pipe, 300- to 1500-mm (12- to 60-in.) Diameter	2 (June)
M 335-19	Steel-Reinforced Polyethylene (PE) Ribbed Pipe, 300- to 1500-mm (12- to 60-in.) Diameter	2 (June)
R 63-13 (2017)	Solid Wall High-Density Polyethylene (HDPE) Conduit for Non-Pressure Applications Used for the Protection of Power and Telecommunications Cables	2 (June)
R 73-16 (2020)	Evaluation of Precast Concrete Drainage Products	2 (June)
R 82-17	Pipe Joint Selection for Highway Culvert and Storm Drains	2 (June)
R 93-19	Service Life Determination of Corrugated HDPE Pipes Manufactured with Recycled Content	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
CONCRETE, CURING MATERIALS, AND ADMIXTURES		
M 154M/M 154-12 (2020)	Air-Entraining Admixtures for Concrete	1 (April)
M 157-13 (2017)	Ready-Mixed Concrete	1 (April)
M 182-05 (2017)	Burlap Cloth Made from Jute or Kenaf and Cotton Mats	1 (April)
M 194M/M 194-13 (2017)	Chemical Admixtures for Concrete	1 (April)
M 205M/M 205-11 (2019)	Molds for Forming Concrete Test Cylinders Vertically	1 (April)
M 233-86 (2014)	Boiled Linseed Oil Mixture for Treatment of Portland Cement Concrete	2 (June)
M 241M/M 241-13 (2017)	Concrete Made by Volumetric Batching and Continuous Mixing	1 (April)
M 295-19	Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete	1 (April)
M 302-19	Slag Cement for Use in Concrete and Mortars	1 (April)
R 39-19	Making and Curing Concrete Test Specimens in the Laboratory	1 (April)
R 60-12 (2020)	Sampling Freshly Mixed Concrete	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
CONCRETE, CURING MATERIALS, AND ADMIXTURES		

R 64-17	Sampling and Fabrication of 50-mm (2-in.) Cube Specimens Using Grout (Non-Shrink) or Mortar	1 (April)
R 70M/R 70-18	Use of Apparatus for the Determination of Length Change of Hardened Cement Paste, Mortar, and Concrete	1 (April)
R 72-16 (2020)	Match Curing of Concrete Test Specimens	1 (April)
R 80-17	Determining the Reactivity of Concrete Aggregates and Selecting Appropriate Measures for Preventing Deleterious Expansion in New Concrete Construction	1 (April)
R 81-17	Static Segregation of Hardened Self-Consolidating Concrete (SCC) Cylinders	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
ENVIRONMENTAL TESTS		

R 23-99 (2018)	Chemical, Biological, and Physical Analysis of Water	1 (April)
R 24-99 (2018)	Collection and Preservation of Water Samples	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
GUARDRAIL AND FENCING		

M 180-12 (2017)	Corrugated Sheet Steel Beams for Highway Guardrail	2 (June)
M 181-10 (2019)	Chain-Link Fence	2 (June)
M 269-96 (2018)	Turnbuckles and Shackles	2 (June)
M 279-14 (2018)	Metallic-Coated, Steel Woven Wire Fence Fabric	2 (June)
M 280-20	Metallic-Coated (Carbon) Steel Barbed Wire	2 (June)
M 281-96 (2018)	Steel Fence Posts and Assemblies, Hot-Wrought	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
HYDRAULIC CEMENT		

M 85-20	Portland Cement	1 (April)
M 240M/M 240-20	Blended Hydraulic Cement	1 (April)
M 307-13 (2017)	Silica Fume Used in Cementitious Mixtures	1 (April)
M 321-04 (2017)	High-Reactivity Pozzolans for Use in Hydraulic-Cement Concrete, Mortar, and Grout	1 (April)
R 71-16 (2020)	Sampling and Amount of Testing of Hydraulic Cement	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
JOINT FILLER AND ASPHALT PLANK		

M 33M/M 33-20	Preformed Expansion Joint Filler for Concrete (Bituminous Type)	2 (June)
M 153-20	Preformed Sponge Rubber, Cork, and Recycled Rubber Expansion Joint Fillers for Concrete Paving and Structural Construction	2 (June)
M 213-01 (2015)	Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types)	2 (June)
M 251-06 (2020)	Plain and Laminated Elastomeric Bridge Bearings	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
JOINT FILLER AND ASPHALT PLANK		

M 297-10 (2015)	Preformed Polychloroprene Elastomeric Joint Seals for Bridges	2 (June)
R 50-09 (2018)	Geosynthetic Reinforcement of the Aggregate Base Course of Flexible Pavement Structures	2 (June)
R 95-19	Accelerated Aging of Hot-Poured Asphalt Crack Sealant Using a Vacuum Oven	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
METALLIC MATERIALS FOR BRIDGES		

M 102M/M 102-06 (2016)	Steel Forgings, Carbon and Alloy, for General Industrial Use	2 (June)
M 103M/M 103-12 (2016)	Steel Castings, Carbon, for General Application	2 (June)
M 105-09 (2018)	Gray Iron Castings	2 (June)
M 111M/M 111-15	Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products	2 (June)
M 163M/M 163-20	Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application	2 (June)
M 169-20	Steel Bars, Carbon and Alloy, Cold-Finished	2 (June)
M 202M/M 202-08 (2016)	Steel Sheet Piling	2 (June)
M 227M/M 227-13 (2017)	Steel Bars, Carbon, Merchant Quality, Mechanical Properties	2 (June)
M 232M/M 232-10 (2015)	Zinc Coating (Hot-Dip) on Iron and Steel Hardware	2 (June)
M 255M/M 255-05 (2018)	Steel Bars, Carbon, Hot-Wrought, Special Quality, Mechanical Properties	2 (June)
M 270M/M 270-20	Structural Steel for Bridges	2 (June)
M 277-06 (2015)	Wire Rope and Sockets for Movable Bridges	2 (June)
M 285M/M 285-11 (2015)	Castings, Iron-Chromium-Nickel, Corrosion Resistant, for Severe Service	2 (June)
M 292M/M 292-20	Carbon and Alloy Steel Nuts for Bolts for High-Pressure or High-Temperature Service, or Both	2 (June)
M 314-90 (2018)	Steel Anchor Bolts	2 (June)
M 334M/M 334-17	Uncoated, Corrosion-Resistant, Deformed and Plain Chromium Alloyed, Billet-Steel Bars for Concrete Reinforcement and Dowels	2 (June)
M 336M/M 336-20	Steel Wire and Welded Wire, Plain and Deformed, for Concrete Reinforcement	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
MISCELLANEOUS		

M 143-14 (2018)	Sodium Chloride	2 (June)
M 144-14 (2018)	Calcium Chloride	2 (June)
M 230-07 (2020)	Expanded and Extruded Foam Board (Polystyrene)	2 (June)
M 235M/M 235-13 (2018)	Epoxy Resin Adhesives	2 (June)
M 333-20	Detectable Warning Surfaces	2 (June)
R 8-96 (2019)	Evaluation of Transportation-Related Earthborne Vibrations	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
PAINTING AND TRAFFIC MARKING AND SIGNING		

M 224-91 (2019)	Use of Protective Sealers for Portland Cement Concrete	2 (June)
-----------------	--	----------

STD. NO.	TITLE	GROUP (MONTH)
-----------------	--------------	----------------------

PAINTING AND TRAFFIC MARKING AND SIGNING

M 237-96 (2014)	Epoxy Resin Adhesives for Bonding Traffic Markers to Hardened Portland Cement and Asphalt Concrete	2 (June)
M 247-13 (2018)	Glass Beads Used in Pavement Markings	2 (June)
M 249-12 (2020)	White and Yellow Reflective Thermoplastic Striping Material (Solid Form)	2 (June)
M 268-15	Retroreflective Sheeting for Flat and Vertical Traffic Control Applications	2 (June)
M 300-03 (2017)	Inorganic Zinc-Rich Primer	2 (June)
R 31-09 (2019)	Evaluation of Protective Coating Systems for Structural Steel	2 (June)
R 98-20	Determination of Size and Roundness of Glass Beads Used in Traffic Markings by Means of Computerized Optical Method	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
-----------------	--------------	----------------------

PAVEMENT SURFACE AND STRUCTURE CHARACTERISTICS

M 328-14 (2018)	Inertial Profiler	1 (April)
M 331-17	Smoothness of Pavement in Weigh-in-Motion (WIM) Systems	1 (April)
R 36-17	Evaluating Faulting of Concrete Pavements	1 (April)
R 37-04 (2018)	Application of Ground Penetrating Radar (GPR) to Highways	1 (April)
R 40-10 (2018)	Measuring Pavement Profile Using a Rod and Level	1 (April)
R 43-13 (2017)	Quantifying Roughness of Pavements	1 (April)
R 54-14 (2018)	Accepting Pavement Ride Quality When Measured Using Inertial Profiling Systems	1 (April)
R 56-14 (2018)	Certification of Inertial Profiling Systems	1 (April)
R 57-14 (2018)	Operating Inertial Profiling Systems	1 (April)
R 85-18	Quantifying Cracks in Asphalt Pavement Surfaces from Collected Pavement Images Utilizing Automated Methods	1 (April)
R 86-18	Collecting Images of Pavement Surfaces for Distress Detection	1 (April)
R 87-18	Determining Pavement Deformation Parameters and Cross Slope from Collected Transverse Profiles	1 (April)
R 88-18	Collecting the Transverse Pavement Profile	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
-----------------	--------------	----------------------

QUALITY ASSURANCE

R 9-05 (2018)	Acceptance Sampling Plans for Highway Construction	1 (April)
R 18-18	Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories	1 (April)
R 20-99 (2017)	Procedures for Measuring Highway Noise	1 (April)
R 38-10 (2018)	Quality Assurance of Standard Manufactured Materials	1 (April)
R 42-06 (2020)	Developing a Quality Assurance Plan for Hot Mix Asphalt (HMA)	1 (April)
R 61-12 (2020)	Establishing Requirements for Equipment Calibrations, Standardizations, and Checks	1 (April)
R 65-14 (2018)	Evaluating the Engineering and Environmental Suitability of Recycled Materials	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
REINFORCING STEEL AND WIRE ROPE		
M 30-15	Metallic-Coated Steel Wire Rope and Fittings for Highway Guardrail	2 (June)
M 31M/M 31-17	Deformed and Plain Carbon and Low-Alloy Steel Bars for Concrete Reinforcement	2 (June)
M 54M/M 54-07 (2017)	Welded Deformed Steel Bar Mats for Concrete Reinforcement	2 (June)
M 203M/M 203-20	Steel Strand, Low-Relaxation Uncoated Seven-Wire for Concrete Reinforcement	2 (June)
M 204M/M 204-14 (2018)	Uncoated Stress-Relieved Steel Wire for Prestressed Concrete	2 (June)
M 254-06 (2015)	Corrosion-Resistant Coated Dowel Bars	2 (June)
M 275M/M 275-20	Uncoated High-Strength Steel Bars for Prestressing Concrete	2 (June)
M 322M/M 322-10 (2015)	Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement	2 (June)
M 329M/M 329-11 (2015)	Stainless Clad Deformed and Plain Round Steel Bars for Concrete Reinforcement	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
SOILS AND STABILIZATION		
M 57-80 (2017)	Materials for Embankments and Subgrades	3 (July)
M 145-91 (2017)	Classification of Soils and Soil–Aggregate Mixtures for Highway Construction Purposes	3 (July)
M 146-91 (2017)	Terms Relating to Subgrade, Soil–Aggregate, and Fill Materials	3 (July)
M 147-17	Materials for Aggregate and Soil–Aggregate Subbase, Base, and Surface Courses	3 (July)
M 216-13 (2017)	Quicklime and Hydrated Lime for Soil Stabilization	1 (April)
M 288-17	Geosynthetic Specification for Highway Applications	2 (June)
M 318-02 (2019)	Glass Cullet Use for Soil–Aggregate Base Course	3 (July)
M 319-02 (2019)	Reclaimed Concrete Aggregate for Unbound Soil–Aggregate Base Course	3 (July)
R 13-12 (2020)	Conducting Geotechnical Subsurface Investigations	3 (July)
R 21-96 (2019)	Drilling for Subsurface Investigations—Unexpectedly Encountering Suspected Hazardous Material	1 (April)
R 22-97 (2015)	Decommissioning Geotechnical Exploratory Boreholes	1 (April)
R 27-01 (2019)	Assessment of Corrosion of Steel Piling for Non-Marine Applications	3 (July)
R 51-13 (2017)	Compost for Erosion/Sediment Control (Filter Berms and Filter Socks)	3 (July)
R 52-10 (2019)	Compost for Erosion/Sediment Control (Compost Blankets)	3 (July)
R 58-11 (2019)	Dry Preparation of Disturbed Soil and Soil–Aggregate Samples for Test	3 (July)
R 69-20	Determination of Long-Term Strength for Geosynthetic Reinforcement	2 (June)
R 74-16 (2020)	Dry Preparation of Disturbed Soil and Soil–Aggregate Samples for Test	3 (July)
R 75-16 (2020)	Developing a Family of Curves	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
TESTING EQUIPMENT		
M 152M/M 152-16 (2020)	Flow Table for Use in Tests of Hydraulic Cement	1 (April)
M 201-15 (2020)	Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes	1 (April)
M 231-95 (2019)	Weighing Devices Used in the Testing of Materials	3 (July)
M 261-18	Rib-Tread Standard Tire for Special-Purpose Pavement Frictional-Property Tests	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
TESTING EQUIPMENT		

M 286-18	Smooth-Tread Standard Tire for Special-Purpose Pavement Frictional-Property Tests	1 (April)
R 32-20	Calibrating the Load Cell and Deflection Sensors for a Falling Weight Deflectometer	1 (April)
R 33-20	Calibrating the Reference Load Cell Used for Reference Calibrations for a Falling Weight Deflectometer	1 (April)
R 45-13 (2017)	Installing, Monitoring, and Processing Data of the Traveling Type Slope Inclinometer	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
TIMBER AND PRESERVATIVES		

M 133-12 (2020)	Preservatives and Pressure Treatment Processes for Timber	2 (June)
M 168-07 (2020)	Wood Products	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
DELETED STANDARDS		

M 290-96 (2018)	Acrylic Prismatic Reflectors and Embossed Aluminum Frames for Signs	2 (June)
R 41-05 (2015)	Measuring Pavement Profile Using a Dipstick®	1 (April)

PART 1—STANDARD SPECIFICATIONS AND STANDARD PRACTICES

Numerical Sequence Table of Contents

Master List (All Release Groups)

STD. NO.	TITLE	GROUP (MONTH)
SPECIFICATIONS		
M 6-13 (2018)	Fine Aggregate for Hydraulic Cement Concrete	3 (July)
M 17-11 (2019)	Mineral Filler for Bituminous Paving Mixtures	3 (July)
M 29-12 (2020)	Fine Aggregate for Bituminous Paving Mixtures	3 (July)
M 30-15 (2019)	Metallic-Coated Steel Wire Rope and Fittings for Highway Guardrail	2 (June)
M 31M/M 31-19	Deformed and Plain Carbon and Low-Alloy Steel Bars for Concrete Reinforcement	2 (June)
M 33M/M 33-20	Preformed Expansion Joint Filler for Concrete (Bituminous Type)	2 (June)
M 36-16 (2020)	Corrugated Steel Pipe, Metallic-Coated, for Sewers and Drains	2 (June)
M 43-05 (2013)	Sizes of Aggregate for Road and Bridge Construction	3 (July)
M 45-16 (2020)	Aggregate for Masonry Mortar	3 (July)
M 54M/M 54-19	Welded Deformed Steel Bar Mats for Concrete Reinforcement	2 (June)
M 57-80 (2017)	Materials for Embankments and Subgrades	3 (July)
M 80-13 (2017)	Coarse Aggregate for Hydraulic Cement Concrete	3 (July)
M 81-92 (2017)	Cutback Asphalt (Rapid-Curing Type)	3 (July)
M 82-17	Cutback Asphalt (Medium-Curing Type)	3 (July)
M 85-20	Portland Cement	1 (April)
M 86M/M 86-20	Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe	2 (June)
M 102M/M 102-19	Steel Forgings, Carbon and Alloy, for General Industrial Use	2 (June)
M 103M/M 103-19	Steel Castings, Carbon, for General Application	2 (June)
M 105-09 (2018)	Gray Iron Castings	2 (June)
M 111M/M 111-19	Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products	2 (June)
M 133-12 (2020)	Preservatives and Pressure Treatment Processes for Timber	2 (June)
M 140-20	Emulsified Asphalt	3 (July)
M 143-14 (2018)	Sodium Chloride	2 (June)
M 144-14 (2018)	Calcium Chloride	2 (June)
M 145-91 (2017)	Classification of Soils and Soil–Aggregate Mixtures for Highway Construction Purposes	3 (July)
M 146-91 (2017)	Terms Relating to Subgrade, Soil–Aggregate, and Fill Materials	3 (July)
M 147-17	Materials for Aggregate and Soil–Aggregate Subbase, Base, and Surface Courses	3 (July)
M 152M/M 152-16 (2020)	Flow Table for Use in Tests of Hydraulic Cement	1 (April)
M 153-20	Preformed Sponge Rubber, Cork, and Recycled Rubber Expansion Joint Fillers for Concrete Paving and Structural Construction	2 (June)
M 154M/M 154-12 (2020)	Air-Entraining Admixtures for Concrete	1 (April)
M 156-13 (2017)	Requirements for Mixing Plants for Hot-Mixed, Hot-Laid Bituminous Paving Mixtures	3 (July)
M 157-13 (2017)	Ready-Mixed Concrete	1 (April)
M 163M/M 163-20	Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application	2 (June)
M 167M/M 167-17	Corrugated Steel Structural Plate, Zinc-Coated, for Field-Bolted Pipe, Pipe-Arches, and Arches	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
SPECIFICATIONS		
M 168-07 (2020)	Wood Products	2 (June)
M 169-20	Steel Bars, Carbon and Alloy, Cold-Finished	2 (June)
M 170-20	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe	2 (June)
M 170M-20	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe [Metric]	2 (June)
M 175M/M 175-05 (2020)	Perforated Concrete Pipe	2 (June)
M 176M/M 176-20	Porous Concrete Pipe	2 (June)
M 178M/M 178-20	Concrete Drain Tile	2 (June)
M 180-12 (2017)	Corrugated Sheet Steel Beams for Highway Guardrail	2 (June)
M 181-10 (2019)	Chain-Link Fence	2 (June)
M 182-05 (2017)	Burlap Cloth Made from Jute or Kenaf and Cotton Mats	1 (April)
M 190-04 (2017)	Asphalt-Coated Corrugated Metal Culvert Pipe and Pipe-Arches	2 (June)
M 194M/M 194-13 (2017)	Chemical Admixtures for Concrete	1 (April)
M 195-11 (2019)	Lightweight Aggregates for Structural Concrete	3 (July)
M 196-16	Corrugated Aluminum Pipe for Sewers and Drains	2 (June)
M 197-20	Aluminum Alloy Sheet for Corrugated Aluminum Pipe	2 (June)
M 199M/M 199-17	Precast Reinforced Concrete Manhole Sections	2 (June)
M 201-15 (2020)	Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes	1 (April)
M 202M/M 202-19	Steel Sheet Piling	2 (June)
M 203M/M 203-20	Steel Strand, Low-Relaxation Uncoated Seven-Wire for Concrete Reinforcement	2 (June)
M 204M/M 204-19	Uncoated Stress-Relieved Steel Wire for Prestressed Concrete	2 (June)
M 205M/M 205-11 (2019)	Molds for Forming Concrete Test Cylinders Vertically	1 (April)
M 206M/M 206-20	Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe	2 (June)
M 207M/M 207-20	Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe	2 (June)
M 208-18	Cationic Emulsified Asphalt	3 (July)
M 213-01 (2019)	Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types)	2 (June)
M 216-13 (2017)	Quicklime and Hydrated Lime for Soil Stabilization	1 (April)
M 218-03 (2020)	Steel Sheet, Zinc-Coated (Galvanized), for Corrugated Steel Pipe	2 (June)
M 219-92 (2017)	Corrugated Aluminum Alloy Structural Plate for Field-Bolted Pipe, Pipe-Arches, and Arches	2 (June)
M 224-91 (2019)	Use of Protective Sealers for Portland Cement Concrete	2 (June)
M 226-80 (2017)	Viscosity-Graded Asphalt Cement	3 (July)
M 227M/M 227-19	Steel Bars, Carbon, Merchant Quality, Mechanical Properties	2 (June)
M 230-07 (2020)	Expanded and Extruded Foam Board (Polystyrene)	2 (June)
M 231-95 (2019)	Weighing Devices Used in the Testing of Materials	3 (July)
M 232M/M 232-19	Zinc Coating (Hot-Dip) on Iron and Steel Hardware	2 (June)
M 233-86 (2019)	Boiled Linseed Oil Mixture for Treatment of Portland Cement Concrete	2 (June)
M 235M/M 235-13 (2018)	Epoxy Resin Adhesives	2 (June)
M 237-96 (2019)	Epoxy Resin Adhesives for Bonding Traffic Markers to Hardened Portland Cement and Asphalt Concrete	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
SPECIFICATIONS		
M 240M/M 240-20	Blended Hydraulic Cement	1 (April)
M 241M/M 241-13 (2017)	Concrete Made by Volumetric Batching and Continuous Mixing	1 (April)
M 242M/M 242-20	Reinforced Concrete D-Load Culvert, Storm Drain, and Sewer Pipe	2 (June)
M 243-96 (2017)	Field-Applied Coating of Corrugated Metal Structural Plate for Pipe, Pipe-Arches, and Arches	2 (June)
M 245-20	Corrugated Steel Pipe, Polymer-Precoated, for Sewers and Drains	2 (June)
M 246-15 (2019)	Steel Sheet, Metallic-Coated and Polymer-Precoated, for Corrugated Steel Pipe	2 (June)
M 247-13 (2018)	Glass Beads Used in Pavement Markings	2 (June)
M 249-12 (2020)	White and Yellow Reflective Thermoplastic Striping Material (Solid Form)	2 (June)
M 251-06 (2020)	Plain and Laminated Elastomeric Bridge Bearings	2 (June)
M 252-20	Corrugated Polyethylene Drainage Pipe	2 (June)
M 254-06 (2019)	Corrosion-Resistant Coated Dowel Bars	2 (June)
M 255M/M 255-19	Steel Bars, Carbon, Hot-Wrought, Special Quality, Mechanical Properties	2 (June)
M 259-20	Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers	2 (June)
M 259M-17	<i>Discontinued</i> —Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers [Metric]	2 (June)
M 261-18	Rib-Tread Standard Tire for Special-Purpose Pavement Frictional-Property Tests	1 (April)
M 262-11 (2020)	Concrete Pipe and Related Products	2 (June)
M 268-15 (2019)	Retroreflective Sheeting for Flat and Vertical Traffic Control Applications	2 (June)
M 269-96 (2018)	Turnbuckles and Shackles	2 (June)
M 270M/M 270-20	Structural Steel for Bridges	2 (June)
M 273-20	Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers with Less Than 2 ft of Cover Subjected to Highway Loadings	2 (June)
M 273M-17	<i>Discontinued</i> —Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers with Less Than 0.6 m of Cover Subjected to Highway Loadings [Metric]	2 (June)
M 274-87 (2017)	Steel Sheet, Aluminum-Coated (Type 2), for Corrugated Steel Pipe	2 (June)
M 275M/M 275-20	Uncoated High-Strength Steel Bars for Prestressing Concrete	2 (June)
M 277-06 (2019)	Wire Rope and Sockets for Movable Bridges	2 (June)
M 278-15 (2019)	Class PS46 Poly(Vinyl Chloride) (PVC) Pipe	2 (June)
M 279-14 (2018)	Metallic-Coated, Steel Woven Wire Fence Fabric	2 (June)
M 280-20	Metallic-Coated (Carbon) Steel Barbed Wire	2 (June)
M 281-96 (2018)	Steel Fence Posts and Assemblies, Hot-Wrought	2 (June)
M 285M/M 285-19	Castings, Iron-Chromium-Nickel, Corrosion Resistant, for Severe Service	2 (June)
M 286-18	Smooth-Tread Standard Tire for Special-Purpose Pavement Frictional-Property Tests	1 (April)
M 288-17	Geosynthetic Specification for Highway Applications	2 (June)
M 289-91 (2017)	Aluminum-Zinc Alloy Coated Sheet Steel for Corrugated Steel Pipe	2 (June)
M 292M/M 292-20	Carbon and Alloy Steel Nuts for Bolts for High-Pressure or High-Temperature Service, or Both	2 (June)
M 294-18	Corrugated Polyethylene Pipe, 300- to 1500-mm (12- to 60-in.) Diameter	2 (June)
M 295-19	Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete	1 (April)
M 297-10 (2019)	Preformed Polychloroprene Elastomeric Joint Seals for Bridges	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
SPECIFICATIONS		
M 300-03 (2017)	Inorganic Zinc-Rich Primer	2 (June)
M 302-19	Slag Cement for Use in Concrete and Mortars	1 (April)
M 303-89 (2019)	Lime for Asphalt Mixtures	1 (April)
M 304-11 (2019)	Poly(Vinyl Chloride) (PVC) Profile Wall Drain Pipe and Fittings Based on Controlled Inside Diameter	2 (June)
M 306-10 (2019)	Drainage, Sewer, Utility, and Related Castings	2 (June)
M 307-13 (2017)	Silica Fume Used in Cementitious Mixtures	1 (April)
M 314-90 (2018)	Steel Anchor Bolts	2 (June)
M 316-18	Polymer-Modified Emulsified Asphalt	3 (July)
M 318-02 (2019)	Glass Cullet Use for Soil-Aggregate Base Course	3 (July)
M 319-02 (2019)	Reclaimed Concrete Aggregate for Unbound Soil-Aggregate Base Course	3 (July)
M 320-17	Performance-Graded Asphalt Binder	3 (July)
M 321-04 (2017)	High-Reactivity Pozzolans for Use in Hydraulic-Cement Concrete, Mortar, and Grout	1 (April)
M 322M/M 322-10 (2019)	Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement	2 (June)
M 323-17	Superpave Volumetric Mix Design	3 (July)
M 325-08 (2017)	Stone Matrix Asphalt (SMA)	3 (July)
M 326-18	Polyethylene (PE) Liner Pipe, 300- to 1600-mm Diameter, Based on Controlled Outside Diameter	2 (June)
M 327-19	Processing Additions for Use in the Manufacture of Hydraulic Cements	1 (April)
M 328-14 (2018)	Inertial Profiler	1 (April)
M 329M/M 329-11 (2019)	Stainless Clad Deformed and Plain Round Steel Bars for Concrete Reinforcement	2 (June)
M 330-20	Polypropylene Pipe, 300- to 1500-mm (12- to 60-in.) Diameter	2 (June)
M 331-17	Smoothness of Pavement in Weigh-in-Motion (WIM) Systems	1 (April)
M 332-20	Performance-Graded Asphalt Binder Using Multiple Stress Creep Recovery (MSCR) Test	3 (July)
M 333-16 (2020)	Detectable Warning Surfaces	2 (June)
M 334M/M 334-17	Uncoated, Corrosion-Resistant, Deformed and Plain Chromium Alloyed, Billet-Steel Bars for Concrete Reinforcement and Dowels	2 (June)
M 335-19	Steel-Reinforced Polyethylene (PE) Ribbed Pipe, 300- to 1500-mm (12- to 60-in.) Diameter	2 (June)
M 336M/M336-20	Steel Wire and Welded Wire, Plain and Deformed, for Concrete Reinforcement	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
PRACTICES		
R 5-17	Selection and Use of Emulsified Asphalts	3 (July)
R 8-96 (2019)	Evaluation of Transportation-Related Earthborne Vibrations	1 (April)
R 9-05 (2018)	Acceptance Sampling Plans for Highway Construction	1 (April)
R 10-06 (2020)	Definition of Terms Related to Quality and Statistics as Used in Highway Construction	1 (April)
R 13-12 (2020)	Conducting Geotechnical Subsurface Investigations	3 (July)
R 15-18	Asphalt Additives and Modifiers	3 (July)
R 18-18	Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
PRACTICES		
R 20-99 (2017)	Procedures for Measuring Highway Noise	1 (April)
R 21-96 (2019)	Drilling for Subsurface Investigations—Unexpectedly Encountering Suspected Hazardous Material	1 (April)
R 22-97 (2015)	Decommissioning Geotechnical Exploratory Boreholes	1 (April)
R 23-99 (2018)	Chemical, Biological, and Physical Analysis of Water	1 (April)
R 24-99 (2018)	Collection and Preservation of Water Samples	1 (April)
R 25-19	Technician Training and Certification Programs	1 (April)
R 26-01 (2018)	Certifying Suppliers of Performance-Graded Asphalt Binders	3 (July)
R 27-01 (2019)	Assessment of Corrosion of Steel Piling for Non-Marine Applications	3 (July)
R 28-12 (2016)	Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV)	3 (July)
R 29-15 (2019)	Grading or Verifying the Performance Grade (PG) of an Asphalt Binder	3 (July)
R 30-02 (2019)	Mixture Conditioning of Hot Mix Asphalt (HMA)	3 (July)
R 31-09 (2019)	Evaluation of Protective Coating Systems for Structural Steel	2 (June)
R 32-20	Calibrating the Load Cell and Deflection Sensors for a Falling Weight Deflectometer	1 (April)
R 33-20	Calibrating the Reference Load Cell Used for Reference Calibrations for a Falling Weight Deflectometer	1 (April)
R 34-03 (2018)	Evaluating Deicing Chemicals	1 (April)
R 35-17	Superpave Volumetric Design for Asphalt Mixtures	3 (July)
R 36-17	Evaluating Faulting of Concrete Pavements	1 (April)
R 37-04 (2018)	Application of Ground Penetrating Radar (GPR) to Highways	1 (April)
R 38-10 (2018)	Quality Assurance of Standard Manufactured Materials	1 (April)
R 39-19	Making and Curing Concrete Test Specimens in the Laboratory	1 (April)
R 40-10 (2018)	Measuring Pavement Profile Using a Rod and Level	1 (April)
R 42-06 (2020)	Developing a Quality Assurance Plan for Hot Mix Asphalt (HMA)	1 (April)
R 43-13 (2017)	Quantifying Roughness of Pavements	1 (April)
R 44-07 (2018)	Independent Assurance (IA) Programs	1 (April)
R 45-13 (2017)	Installing, Monitoring, and Processing Data of the Traveling Type Slope Inclinometer	3 (July)
R 46-08 (2017)	Designing Stone Matrix Asphalt (SMA)	3 (July)
R 47-19	Reducing Samples of Asphalt Mixtures to Testing Size	3 (July)
R 49-09 (2018)	Determination of Low-Temperature Performance Grade (PG) of Asphalt Binders	3 (July)
R 50-09 (2018)	Geosynthetic Reinforcement of the Aggregate Base Course of Flexible Pavement Structures	2 (June)
R 51-13 (2017)	Compost for Erosion/Sediment Control (Filter Berms and Filter Socks)	3 (July)
R 52-10 (2019)	Compost for Erosion/Sediment Control (Compost Blankets)	3 (July)
R 54-14 (2018)	Accepting Pavement Ride Quality When Measured Using Inertial Profiling Systems	1 (April)
R 56-14 (2018)	Certification of Inertial Profiling Systems	1 (April)
R 57-14 (2018)	Operating Inertial Profiling Systems	1 (April)
R 58-11 (2019)	Dry Preparation of Disturbed Soil and Soil–Aggregate Samples for Test	3 (July)
R 59-11 (2019)	Recovery of Asphalt Binder from Solution by Abson Method	3 (July)
R 60-12 (2020)	Sampling Freshly Mixed Concrete	1 (April)
R 61-12 (2020)	Establishing Requirements for Equipment Calibrations, Standardizations, and Checks	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
PRACTICES		
R 62-13 (2017)	Developing Dynamic Modulus Master Curves for Asphalt Mixtures	3 (July)
R 63-13 (2017)	Solid Wall High-Density Polyethylene (HDPE) Conduit for Non-Pressure Applications Used for the Protection of Power and Communications Cables	2 (June)
R 64-17	Sampling and Fabrication of 50-mm (2-in.) Cube Specimens Using Grout (Non-Shrink) or Mortar	1 (April)
R 65-14 (2018)	Evaluating the Engineering and Environmental Suitability of Recycled Materials	1 (April)
R 66-16 (2020)	Sampling Asphalt Mixtures	3 (July)
R 67-20	Sampling Asphalt Mixtures after Compaction (Obtaining Cores)	3 (July)
R 68-15 (2019)	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	3 (July)
R 69-20	Determination of Long-Term Strength for Geosynthetic Reinforcement	2 (June)
R 70M/R 70-18	Use of Apparatus for the Determination of Length Change of Hardened Cement Paste, Mortar, and Concrete	1 (April)
R 71-16 (2020)	Sampling and Amount of Testing of Hydraulic Cement	1 (April)
R 72-16 (2020)	Match Curing of Concrete Test Specimens	1 (April)
R 73-16 (2020)	Evaluation of Precast Concrete Drainage Products	2 (June)
R 74-16 (2020)	Wet Preparation of Disturbed Soil Samples for Test	3 (July)
R 75-16 (2020)	Developing a Family of Curves	3 (July)
R 76-16 (2020)	Reducing Samples of Aggregate to Testing Size	3 (July)
R 77-16 (2020)	Certifying Suppliers of Emulsified Asphalt	3 (July)
R 78-16 (2020)	Recovering Residue from Emulsified Asphalt Using Low-Temperature Evaporative Techniques	3 (July)
R 79-19	Vacuum Drying Compacted Asphalt Specimens	3 (July)
R 80-17	Determining the Reactivity of Concrete Aggregates and Selecting Appropriate Measures for Preventing Deleterious Expansion in New Concrete Construction	1 (April)
R 81-17	Static Segregation of Hardened Self-Consolidating Concrete (SCC) Cylinders	1 (April)
R 82-17	Pipe Joint Selection for Highway Culvert and Storm Drains	2 (June)
R 83-17	Preparation of Cylindrical Performance Test Specimens Using the Superpave Gyratory Compactor (SGC)	3 (July)
R 84-17	Developing Dynamic Modulus Master Curves for Asphalt Mixtures Using the Asphalt Mixture Performance Tester (AMPT)	3 (July)
R 85-18	Quantifying Cracks in Asphalt Pavement Surfaces from Collected Pavement Images Utilizing Automated Methods	1 (April)
R 86-18	Collecting Images of Pavement Surfaces for Distress Detection	1 (April)
R 87-18	Determining Pavement Deformation Parameters and Cross Slope from Collected Transverse Profiles	1 (April)
R 88-18	Collecting the Transverse Pavement Profile	1 (April)
R 89-18	Accreditation Bodies Operating in the Fields of Construction Materials Testing and Inspection	1 (April)
R 90-18	Sampling Aggregate Products	3 (July)
R 91-18	Determining Aggregate Source Shape Values from Digital Image Analysis Shape Properties	3 (July)
R 92-18	Evaluating the Elastic Behavior of Asphalt Binders Using the Multiple Stress Creep Recovery (MSCR) Test	3 (July)
R 93-19	Service Life Determination of Corrugated HDPE Pipes Manufactured with Recycled Content	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
PRACTICES		
R 94-19	Quality Assurance, Job Site Quality Control, and Reapplication of Protective Sealers for Portland Cement Concrete	2 (June)
R 95-19	Accelerated Aging of Hot-Poured Asphalt Crack Sealant Using a Vacuum Oven	2 (June)
R 96-19	Installation, Operation, and Maintenance of Ignition Furnaces	3 (July)
R 97-19	Sampling Asphalt Mixtures	3 (July)
R 98-20	Determination of Size and Roundness of Glass Beads Used in Traffic Markings by Means of Computerized Optical Method	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
DELETED STANDARDS		
M 290-96 (2018)	Acrylic Prismatic Reflectors and Embossed Aluminum Frames for Signs	2 (June)
R 41-05 (2015)	Measuring Pavement Profile Using a Dipstick®	1 (April)

PART 2—STANDARD METHODS OF TEST

Subject Sequence Table of Contents

Master List (All Release Groups)

STD. NO.	TITLE	RELEASE (MONTH)
AGGREGATES		
T 11-20	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	3 (July)
T 19M/T 19-14 (2018)	Bulk Density (“Unit Weight”) and Voids in Aggregate	3 (July)
T 21M/T 21-20	Organic Impurities in Fine Aggregates for Concrete	3 (July)
T 27-20	Sieve Analysis of Fine and Coarse Aggregates	3 (July)
T 30-19	Mechanical Analysis of Extracted Aggregate	3 (July)
T 37-07 (2020)	Sieve Analysis of Mineral Filler for Hot Mix Asphalt (HMA)	3 (July)
T 71-08 (2017)	Effect of Organic Impurities in Fine Aggregate on Strength of Mortar	3 (July)
T 84-13 (2017)	Specific Gravity and Absorption of Fine Aggregate	3 (July)
T 85-14 (2018)	Specific Gravity and Absorption of Coarse Aggregate	3 (July)
T 96-02 (2019)	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	3 (July)
T 103-08 (2017)	Soundness of Aggregates by Freezing and Thawing	3 (July)
T 104-99 (2020)	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	3 (July)
T 112-00 (2017)	Clay Lumps and Friable Particles in Aggregate	3 (July)
T 113-18	Lightweight Pieces in Aggregate	3 (July)
T 210-15 (2019)	Aggregate Durability Index	3 (July)
T 255-00 (2017)	Total Evaporable Moisture Content of Aggregate by Drying	3 (July)
T 279-18	Accelerated Polishing of Aggregates Using the British Wheel	1 (April)
T 304-17 (2020)	Uncompacted Void Content of Fine Aggregate	3 (July)
T 326-05 (2018)	Uncompacted Void Content of Coarse Aggregate (As Influenced by Particle Shape, Surface Texture, and Grading)	3 (July)
T 327-12 (2020)	Resistance of Coarse Aggregate to Degradation by Abrasion in the Micro-Deval Apparatus	3 (July)
T 330-07 (2019)	The Qualitative Detection of Harmful Clays of the Smectite Group in Aggregates Using Methylene Blue	3 (July)
T 335-09 (2018)	Determining the Percentage of Fracture in Coarse Aggregate	3 (July)
T 354-17	Specific Gravity and Absorption of Aggregate by Volumetric Immersion Method	3 (July)
T 380-19	Potential Alkali Reactivity of Aggregates and Effectiveness of ASR Mitigation Measures (Miniature Concrete Prism Test, MCPT)	1 (April)
T 381-18	Determining Aggregate Shape Properties by Means of Digital Image Analysis	3 (July)
STD. NO.	TITLE	GROUP (MONTH)
BITUMINOUS MATERIALS		
T 44-14 (2018)	Solubility of Bituminous Materials	3 (July)
T 48-18	Flash Fire Point of Asphalt Binder by Cleveland Open Cup	3 (July)
T 49-15 (2019)	Penetration of Bituminous Materials	3 (July)
T 50-14 (2018)	Float Test for Bituminous Materials	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
BITUMINOUS MATERIALS		
T 51-09 (2018)	Ductility of Asphalt Materials	3 (July)
T 53-09 (2018)	Softening Point of Bitumen (Ring-and-Ball Apparatus)	3 (July)
T 59-16	Emulsified Asphalts	3 (July)
T 72-10 (2015)	Saybolt Viscosity	3 (July)
T 78-15 (2019)	Distillation of Cutback Asphalt Products	3 (July)
T 79-12 (2020)	Flash Point with Tag Open-Cup Apparatus for Use with Material Having a Flash Point Less Than 93°C (200°F)	3 (July)
T 102-09 (2018)	Spot Test of Asphaltic Materials	3 (July)
T 110-03 (2020)	Moisture or Volatile Distillates in Hot Mix Asphalt (HMA)	3 (July)
T 111-11 (2019)	Mineral Matter or Ash in Asphalt Materials	3 (July)
T 164-14 (2018)	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	3 (July)
T 166-16 (2020)	Bulk Specific Gravity (G_{mb}) of Compacted Asphalt Mixtures Using Saturated Surface-Dry Specimens	3 (July)
T 167-10 (2015)	Compressive Strength of Hot Mix Asphalt	3 (July)
T 179-05 (2018)	Effect of Heat and Air on Asphalt Materials (Thin-Film Oven Test)	3 (July)
T 195-18	Determining Degree of Particle Coating of Asphalt Mixtures	3 (July)
T 201-15 (2019)	Kinematic Viscosity of Asphalts (Bitumens)	3 (July)
T 202-15 (2019)	Viscosity of Asphalts by Vacuum Capillary Viscometer	3 (July)
T 209-20	Theoretical Maximum Specific Gravity (G_{mm}) and Density of Asphalt Mixtures	3 (July)
T 228-09 (2018)	Specific Gravity of Semi-Solid Asphalt Materials	3 (July)
T 240-13 (2017)	Effect of Heat and Air on a Moving Film of Asphalt Binder (Rolling Thin-Film Oven Test)	3 (July)
T 245-15 (2019)	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	3 (July)
T 246-10 (2019)	Resistance to Deformation and Cohesion of Hot Mix Asphalt (HMA) by Means of Hveem Apparatus	3 (July)
T 247-10 (2019)	Preparation of Test Specimens of Hot Mix Asphalt (HMA) by Means of California Kneading Compactor	3 (July)
T 269-14 (2018)	Percent Air Voids in Compacted Dense and Open Asphalt Mixtures	3 (July)
T 275-17	Bulk Specific Gravity (G_{mb}) of Compacted Asphalt Mixtures Using Paraffin-Coated Specimens	3 (July)
T 283-14 (2018)	Resistance of Compacted Asphalt Mixtures to Moisture-Induced Damage	3 (July)
T 287-20	Asphalt Binder Content of Asphalt Mixtures by the Nuclear Method	3 (July)
T 295-13 (2017)	Specific Gravity or API Gravity of Liquid Asphalts by Hydrometer Method	3 (July)
T 300-11 (2020)	Force Ductility Test of Asphalt Materials	3 (July)
T 301-13 (2017)	Elastic Recovery Test of Asphalt Materials by Means of a Ductilometer	3 (July)
T 302-15 (2019)	Polymer Content of Polymer-Modified Emulsified Asphalt Residue and Asphalt Binders	3 (July)
T 305-14 (2018)	Determination of Draindown Characteristics in Uncompacted Asphalt Mixtures	3 (July)
T 308-18	Determining the Asphalt Binder Content of Hot Mix Asphalt (HMA) by the Ignition Method	3 (July)
T 312-19	Preparing and Determining the Density of Asphalt Mixture Specimens by Means of the Superpave Gyrotory Compactor	3 (July)
T 313-19	Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
BITUMINOUS MATERIALS		
T 314-12 (2016)	Determining the Fracture Properties of Asphalt Binder in Direct Tension (DT)	3 (July)
T 315-20	Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	3 (July)
T 316-19	Viscosity Determination of Asphalt Binder Using Rotational Viscometer	3 (July)
T 319-15 (2019)	Quantitative Extraction and Recovery of Asphalt Binder from Asphalt Mixtures	3 (July)
T 320-07 (2020)	Determining the Permanent Shear Strain and Stiffness of Asphalt Mixtures Using the Superpave Shear Tester (SST)	3 (July)
T 321-17	Determining the Fatigue Life of Compacted Asphalt Mixtures Subjected to Repeated Flexural Bending	3 (July)
T 322-07 (2020)	Determining the Creep Compliance and Strength of Hot Mix Asphalt (HMA) Using the Indirect Tensile Test Device	3 (July)
T 324-19	Hamburg Wheel-Track Testing of Compacted Asphalt Mixtures	3 (July)
T 329-15 (2019)	Moisture Content of Asphalt Mixtures by Oven Method	3 (July)
T 331-13 (2017)	Bulk Specific Gravity (G_{mb}) and Density of Compacted Asphalt Mixtures Using Automatic Vacuum Sealing Method	3 (July)
T 340-10 (2019)	Determining Rutting Susceptibility of Hot Mix Asphalt (HMA) Using the Asphalt Pavement Analyzer (APA)	3 (July)
T 342-11 (2019)	Determining Dynamic Modulus of Hot Mix Asphalt (HMA)	3 (July)
T 343-12 (2020)	Density of In-Place Hot Mix Asphalt (HMA) Pavement by Electronic Surface Contact Devices	3 (July)
T 344-12 (2020)	Evaluation of Superpave Gyrotory Compactor (SGC) Internal Angle of Gyration Using Simulated Loading	3 (July)
T 350-19	Multiple Stress Creep Recover (MSCR) Test of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	3 (July)
T 355-18	In-Place Density of Asphalt Mixtures by Nuclear Methods	3 (July)
T 361-16 (2020)	Determining Asphalt Binder Bond Strength by Means of the Binder Bond Strength (BBS) Test	3 (July)
T 362-17	Quantitative Determination of the Percentage of Lime in Asphalt Mixtures	3 (July)
T 377-17	Detecting the Presence of Phosphorus in Asphalt Binder	3 (July)
T 378-17	Determining the Dynamic Modulus and Flow Number for Asphalt Mixtures Using the Asphalt Mixture Performance Tester (AMPT)	3 (July)
T 382-20	Determining the Viscosity of Emulsified Asphalt by a Rotational Paddle Viscometer	3 (July)
T 383-19	Evaluation of Asphalt Release Agents (ARAs)	3 (July)
T 387-19	Determining the Cracking Temperature of Asphalt Binder Using the Asphalt Binder Cracking Device (ABCD)	3 (July)
T 391-20	Estimating Fatigue Resistance of Asphalt Binders Using the Linear Amplitude Sweep	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
BOX CULVERT, CULVERT PIPE, AND DRAIN TILE		
T 241-95 (2017)	Helical Continuously Welded Seam Corrugated Steel Pipe	2 (June)
T 249-03 (2020)	Helical Lock Seam Corrugated Pipe	2 (June)
T 280-14 (2018)	Concrete Pipe, Manhole Sections, or Tile	2 (June)
T 281-14 (2018)	Vitrified Clay Pipe	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
BOX CULVERT, CULVERT PIPE, AND DRAIN TILE		

T 341-10 (2019)	Determination of Compression Capacity for Profile Wall Plastic Pipe by Stub Compression Loading	2 (June)
-----------------	---	----------

STD. NO.	TITLE	GROUP (MONTH)
CONCRETE, CURING MATERIALS, AND ADMIXTURES		

T 22M/T 22-20	Compressive Strength of Cylindrical Concrete Specimens	1 (April)
T 23-18	Making and Curing Concrete Test Specimens in the Field	1 (April)
T 24M/T 24-15 (2019)	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	1 (April)
T 97-18	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	1 (April)
T 119M/T 119-18	Slump of Hydraulic Cement Concrete	1 (April)
T 121M/T 121-19	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	1 (April)
T 140-20	Compressive Strength of Concrete Using Portions of Beams Broken in Flexure	1 (April)
T 148-15 (2019)	Measuring Length of Drilled Concrete Cores	1 (April)
T 152-19	Air Content of Freshly Mixed Concrete by the Pressure Method	1 (April)
T 155-13 (2017)	Water Retention by Liquid Membrane-Forming Curing Compounds for Concrete	1 (April)
T 157-12 (2020)	Air-Entraining Admixtures for Concrete	1 (April)
T 158-11 (2019)	Bleeding of Concrete	1 (April)
T 160-17	Length Change of Hardened Hydraulic Cement Mortar and Concrete	1 (April)
T 161-17	Resistance of Concrete to Rapid Freezing and Thawing	1 (April)
T 177-17	Flexural Strength of Concrete (Using Simple Beam with Center-Point Loading)	1 (April)
T 178-15 (2019)	Portland-Cement Content of Hardened Hydraulic-Cement Concrete	1 (April)
T 196M/T 196-11 (2019)	Air Content of Freshly Mixed Concrete by the Volumetric Method	1 (April)
T 197M/T 197-11 (2019)	Time of Setting of Concrete Mixtures by Penetration Resistance	1 (April)
T 198-15 (2019)	Splitting Tensile Strength of Cylindrical Concrete Specimens	1 (April)
T 231-17	Capping Cylindrical Concrete Specimens	1 (April)
T 253-02 (2016)	Coated Dowel Bars	2 (June)
T 259-02 (2017)	Resistance of Concrete to Chloride Ion Penetration	1 (April)
T 260-97 (2020)	Sampling and Testing for Chloride Ion in Concrete and Concrete Raw Materials	1 (April)
T 276-17	Measuring Early-Age Compression Strength and Projecting Later-Age Strength	1 (April)
T 277-15 (2019)	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	1 (April)
T 285-89 (2019)	Bend Test for Bars for Concrete Reinforcement	2 (June)
T 303-00 (2017)	Accelerated Detection of Potentially Deleterious Expansion of Mortar Bars Due to Alkali-Silica Reaction	3 (July)
T 309-20	Temperature of Freshly Mixed Portland Cement Concrete	1 (April)
T 318-15 (2019)	Water Content of Freshly Mixed Concrete Using Microwave Oven Drying	1 (April)
T 325-04 (2020)	Estimating the Strength of Concrete in Transportation Construction by Maturity Tests	1 (April)
T 332-07 (2020)	Determining Chloride Ions in Concrete and Concrete Materials by Specific Ion Probe	1 (April)
T 334-08 (2020)	Estimating the Cracking Tendency of Concrete	1 (April)
T 336-15 (2019)	Coefficient of Thermal Expansion of Hydraulic Cement Concrete	1 (April)
T 345-12 (2020)	Passing Ability of Self-Consolidating Concrete (SCC) by J-Ring	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
CONCRETE, CURING MATERIALS, AND ADMIXTURES		
T 347-13 (2017)	Slump Flow of Self-Consolidating Concrete (SCC)	1 (April)
T 348-13 (2018)	Air-Void Characteristics of Freshly Mixed Concrete by Buoyancy Change	1 (April)
T 349-13 (2017)	Filling Capacity of Self-Consolidating Concrete Using the Caisson Test	1 (April)
T 351-14 (2018)	Visual Stability Index (VSI) of Self-Consolidating Concrete (SCC)	1 (April)
T 352-14 (2018)	Determining Formwork Pressure of Fresh Self-Consolidating Concrete (SCC) Using Pressure Transducers	1 (April)
T 356-15 (2019)	Determining Air Content of Hardened Portland Cement Concrete by High-Pressure Air Meter	1 (April)
T 357-15 (2019)	Predicting Chloride Penetration of Hydraulic Cement Concrete by the Rapid Migration Procedure	1 (April)
T 358-19	Surface Resistivity Indication of Concrete's Ability to Resist Chloride Ion Penetration	1 (April)
T 359M/T 359-18	Pavement Thickness by Magnetic Pulse Induction	1 (April)
T 363-17	Evaluating Stress Development and Cracking Potential due to Restrained Volume Change Using a Dual Ring Test	1 (April)
T 364-17	Determination of Composite Activation Energy of Aggregates due to Alkali-Silica Reaction (Chemical Method)	1 (April)
T 365-20	Quantifying Calcium Oxychloride Amounts in Cement Pastes Exposed to Deicing Salts	1 (April)
T 373M/T 373-17	Comparative Qualitative Corrosion Characterization of Steel Bars Used for Concrete Reinforcement (Linear Polarization Resistance and Potentiodynamic Polarization Tests)	2 (June)
T 374M/T 374-17	Comparative Qualitative Corrosion Characterization of Uncoated Chromium-Alloyed Steel Bars Used for Concrete Reinforcement (Tombstone Test)	2 (June)
T 375M/T 375-17	Identification of Iron-Based Alloy Steel Bars for Concrete Reinforcement or Dowels by Handheld X-Ray Fluorescence (XRF) Spectrometer	2 (June)
T 376M/T 376-17	Macrocell Slab Chloride Threshold	2 (June)
T 379-18	Nonlinear Impact Resonance Acoustic Spectroscopy (NIRAS) for Concrete Specimens with Damage from Alkali-Silica Reaction (ASR)	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
HYDRAULIC CEMENT		
T 98M/T 98-12 (2020)	Fineness of Portland Cement by the Turbidimeter	1 (April)
T 105-20	Chemical Analysis of Hydraulic Cement	1 (April)
T 106M/T 106-18	Compressive Strength of Hydraulic Cement Mortar (Using 50-mm or 2-in. Cube Specimens)	1 (April)
T 107M/T 107-18	Autoclave Expansion of Hydraulic Cement	1 (April)
T 129-14 (2018)	Amount of Water Required for Normal Consistency of Hydraulic Cement Paste	1 (April)
T 131-20	Time of Setting of Hydraulic Cement by Vicat Needle	1 (April)
T 132-87 (2018)	Tensile Strength of Hydraulic Cement Mortars	1 (April)
T 133-19	Density of Hydraulic Cement	1 (April)
T 137-12 (2020)	Air Content of Hydraulic Cement Mortar	1 (April)
T 153-20	Fineness of Hydraulic Cement by Air Permeability Apparatus	1 (April)
T 154-18	Time of Setting of Hydraulic Cement by Gillmore Needles	1 (April)
T 162-16 (2020)	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	1 (April)
T 185-15 (2020)	Early Stiffening of Hydraulic Cement (Mortar Method)	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
----------	-------	---------------

HYDRAULIC CEMENT

T 186-20	Early Stiffening of Hydraulic Cement (Paste Method)	1 (April)
T 188-05 (2017)	Evaluation by Freezing and Thawing of Air-Entraining Additions to Hydraulic Cement	1 (April)
T 192-19	Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve	1 (April)
T 323-03 (2020)	Determining the Shear Strength at the Interface of Bonded Layers of Portland Cement Concrete	1 (April)
T 353-14 (2018)	Particle Size Analysis of Hydraulic Cement and Related Materials by Light Scattering	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
----------	-------	---------------

JOINT FILLER AND ASPHALT PLANK

T 366-18	Apparent Viscosity of Hot-Poured Asphalt Crack Sealant Using Rotational Viscometer	2 (June)
T 368-17	Measuring Low-Temperature Flexural Creep Stiffness of Hot-Poured Asphalt Crack Sealant by Bending Beam Rheometer (BBR)	2 (June)
T 369-17	Evaluation of the Low-Temperature Tensile Property of Hot-Poured Asphalt Crack Sealant by Direct Tension Test	2 (June)
T 370-18	Measuring Adhesion of Hot-Poured Asphalt Crack Sealant Using Direct Adhesion Tester	2 (June)
T 371-17	Measuring Interfacial Fracture Energy of Hot-Poured Asphalt Crack Sealant Using a Blister Test	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
----------	-------	---------------

METALLIC MATERIALS FOR BRIDGES

T 65M/T 65-19	Mass [Weight] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings	2 (June)
T 213M/T 213-11 (2019)	Mass [Weight] of Coating on Aluminum-Coated Iron or Steel Articles	2 (June)
T 243M/T 243-19	Sampling Procedure for Impact Testing of Structural Steel	2 (June)
T 244-20	Mechanical Testing of Steel Products	2 (June)
T 337-09 (2019)	Non-Instrumental Determination of Metallic Zinc in Zinc-Rich Primers	2 (June)
T 338-09 (2019)	Analysis of Structural Steel Coatings for Hindered Amine Light Stabilizer (HALS)	2 (June)
T 339-10 (2019)	Analysis of Structural Steel Coatings for Isocyanate Content	2 (June)
T 372M/T 372-17	Sensitivity of Stainless Steel to Intergranular Attack	2 (June)
T 384-19	Protective Sealers for Portland Cement Concrete	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
----------	-------	---------------

MISCELLANEOUS

T 256-01 (2020)	Pavement Deflection Measurements	1 (April)
T 257-96 (2018)	Instrumental Photometric Measurements of Retroflective Materials and Retroflective Devices	2 (June)
T 388-20	Detectable Warning Systems	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
PAINTING AND TRAFFIC MARKING AND SIGNING		
T 143-13 (2017)	Sampling and Testing Calcium Chloride for Roads and Structural Applications	2 (June)
T 237-05 (2019)	Testing Epoxy Resin Adhesive	2 (June)
T 250-05 (2019)	Thermoplastic Traffic Line Material	2 (June)
T 333-07 (2017)	Linear Coefficient of Shrinkage on Cure of Adhesive Systems	2 (June)
T 346-13 (2017)	Glass Beads Used in Pavement Markings	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
PAVEMENT SURFACE AND STRUCTURE CHARACTERISTICS		
T 242-18	Frictional Properties of Paved Surfaces Using a Full-Scale Tire	1 (April)
T 278-90 (2017)	Surface Frictional Properties Using the British Pendulum Tester	1 (April)
T 282-01 (2019)	Calibrating a Wheel Force or Torque Transducer Using a Calibration Platform (User Level)	1 (April)
T 317-04 (2018)	Prediction of Asphalt-Bound Pavement Layer Temperatures	1 (April)
T 360-16 (2020)	Measurement of Tire/Pavement Noise Using the On-Board Sound Intensity (OBSI) Method	1 (April)
T 389-20	Determining the Influence of Road Surfaces on Vehicle Noise Using the Statistical Isolated Pass-By (SIP) Method	1 (April)
T 390-20	Determining the Influence of Road Surfaces on Traffic Noise Using the Continuous-Flow Traffic Time-Integrated Method (CTIM)	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
SOILS AND STABILIZATION		
T 88-20	Particle Size Analysis of Soils	3 (July)
T 89-13 (2017)	Determining the Liquid Limit of Soils	3 (July)
T 90-20	Determining the Plastic Limit and Plasticity Index of Soils	3 (July)
T 99-19	Moisture–Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and a 305-mm (12-in.) Drop	3 (July)
T 100-15 (2019)	Specific Gravity of Soils	3 (July)
T 134-19	Moisture–Density Relations of Soil–Cement Mixtures	3 (July)
T 135-13 (2017)	Wetting-and-Drying Test of Compacted Soil–Cement Mixtures	3 (July)
T 136-13 (2017)	Freezing-and-Thawing Tests of Compacted Soil–Cement Mixtures	3 (July)
T 176-17	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	3 (July)
T 180-20	Moisture–Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop	3 (July)
T 190-14 (2018)	Resistance R-Value and Expansion Pressure of Compacted Soils	3 (July)
T 191-14 (2018)	Density of Soil In-Place by the Sand-Cone Method	3 (July)
T 193-13 (2017)	The California Bearing Ratio	3 (July)
T 194-97 (2018)	Determination of Organic Matter in Soils by Wet Combustion	3 (July)
T 206-19	Penetration Test and Split-Barrel Sampling of Soils	3 (July)
T 207-12 (2020)	Thin-Walled Tube Sampling of Soils	3 (July)
T 208-15 (2019)	Unconfined Compressive Strength of Cohesive Soil	3 (July)
T 211-90 (2017)	Determination of Cement Content in Cement-Treated Aggregate by the Method of Titration	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
SOILS AND STABILIZATION		
T 215-14 (2018)	Permeability of Granular Soils (Constant Head)	3 (July)
T 216-07 (2020)	One-Dimensional Consolidation Properties of Soils	3 (July)
T 217-14 (2018)	Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	3 (July)
T 218-86 (2018)	Sampling Hydrated Lime	1 (April)
T 219-87 (2018)	Testing Lime for Chemical Constituents and Particle Sizes	1 (April)
T 220-66 (2018)	Determination of the Strength of Soil–Lime Mixtures	3 (July)
T 221-90 (2017)	Repetitive Static Plate Load Tests of Soils and Flexible Pavement Components for Use in Evaluation and Design of Airport and Highway Pavements	3 (July)
T 222-81 (2017)	Nonrepetitive Static Plate Load Test of Soils and Flexible Pavement Components for Use in Evaluation and Design of Airport and Highway Pavements	3 (July)
T 223-96 (2017)	Field Vane Shear Test in Cohesive Soil	3 (July)
T 225-16 (2020)	Diamond Core Drilling for Site Investigation	3 (July)
T 226-90 (2018)	Triaxial Compressive Strength of Undrained Rock Core Specimens without Pore Pressure Measurements	3 (July)
T 232-90 (2018)	Determination of Lime Content in Lime-Treated Soils by Titration	1 (April)
T 233-02 (2019)	Density of Soil In-Place by Block, Chunk, or Core Sampling	3 (July)
T 236-08 (2018)	Direct Shear Test of Soils under Consolidated Drained Conditions	3 (July)
T 252-19	Measurements of Pore Pressures in Soils	3 (July)
T 258-81 (2018)	Determining Expansive Soils	3 (July)
T 265-15 (2019)	Laboratory Determination of Moisture Content of Soils	3 (July)
T 267-86 (2018)	Determination of Organic Content in Soils by Loss on Ignition	3 (July)
T 272-18	One-Point Method for Determining Maximum Dry Density and Optimum Moisture	3 (July)
T 273-86 (2018)	Soil Suction	3 (July)
T 288-12 (2016)	Determining Minimum Laboratory Soil Resistivity	3 (July)
T 289-91 (2018)	Determining pH of Soil for Use in Corrosion Testing	3 (July)
T 290-95 (2020)	Determining Water-Soluble Sulfate Ion Content in Soil	3 (July)
T 291-94 (2018)	Determining Water-Soluble Chloride Ion Content in Soil	3 (July)
T 296-10 (2020)	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	3 (July)
T 298-15 (2019)	High-Strain Dynamic Testing of Piles	3 (July)
T 306-11 (2019)	Progressing Auger Borings for Geotechnical Explorations	3 (July)
T 307-99 (2017)	Determining the Resilient Modulus of Soils and Aggregate Materials	3 (July)
T 310-19	In-Place Density and Moisture Content of Soil and Soil–Aggregate by Nuclear Methods (Shallow Depth)	3 (July)
T 311-20	Grain-Size Analysis of Granular Soil Materials	3 (July)
T 385-19	Deep Foundation Elements under Bidirectional Static Axial Compressive Load	3 (July)
T 386-19	Rapid Axial Compressive Load Testing of Deep Foundation Units	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
DELETED STANDARDS		
T 168-03 (2016)	Sampling Bituminous Paving Mixtures	3 (July)
T 367-17	Accelerated Aging of Hot-Poured Asphalt Crack Sealant Using a Vacuum Oven	2 (June)

PART 2—STANDARD METHODS OF TEST

Numerical Sequence Table of Contents

Master List (All Release Groups)

STD. NO.	TITLE	GROUP (MONTH)
T 11-20	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	3 (July)
T 19M/T 19-14 (2018)	Bulk Density (“Unit Weight”) and Voids in Aggregate	3 (July)
T 21M/T 21-20	Organic Impurities in Fine Aggregates for Concrete	3 (July)
T 22M/T 22-20	Compressive Strength of Cylindrical Concrete Specimens	1 (April)
T 23-18	Making and Curing Concrete Test Specimens in the Field	1 (April)
T 24M/T 24-15 (2019)	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	1 (April)
T 27-20	Sieve Analysis of Fine and Coarse Aggregates	3 (July)
T 30-19	Mechanical Analysis of Extracted Aggregate	3 (July)
T 37-07 (2020)	Sieve Analysis of Mineral Filler for Hot Mix Asphalt (HMA)	3 (July)
T 44-14 (2018)	Solubility of Bituminous Materials	3 (July)
T 48-18	Flash Fire Point of Asphalt Binder by Cleveland Open Cup	3 (July)
T 49-15 (2019)	Penetration of Bituminous Materials	3 (July)
T 50-14 (2018)	Float Test for Bituminous Materials	3 (July)
T 51-09 (2018)	Ductility of Asphalt Materials	3 (July)
T 53-09 (2018)	Softening Point of Bitumen (Ring-and-Ball Apparatus)	3 (July)
T 59-16	Emulsified Asphalts	3 (July)
T 65M/T 65-19	Mass [Weight] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings	2 (June)
T 71-08 (2017)	Effect of Organic Impurities in Fine Aggregate on Strength of Mortar	3 (July)
T 72-10 (2019)	Saybolt Viscosity	3 (July)
T 78-15 (2019)	Distillation of Cutback Asphalt Products	3 (July)
T 79-12 (2020)	Flash Point with Tag Open-Cup Apparatus for Use with Material Having a Flash Point Less Than 93°C (200°F)	3 (July)
T 84-13 (2017)	Specific Gravity and Absorption of Fine Aggregate	3 (July)
T 85-14 (2018)	Specific Gravity and Absorption of Coarse Aggregate	3 (July)
T 88-20	Particle Size Analysis of Soils	3 (July)
T 89-13 (2017)	Determining the Liquid Limit of Soils	3 (July)
T 90-20	Determining the Plastic Limit and Plasticity Index of Soils	3 (July)
T 96-02 (2019)	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	3 (July)
T 97-18	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	1 (April)
T 98M/T 98-12 (2020)	Fineness of Portland Cement by the Turbidimeter	1 (April)
T 99-19	Moisture–Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and a 305-mm (12-in.) Drop	3 (July)
T 100-15 (2019)	Specific Gravity of Soils	3 (July)
T 102-09 (2018)	Spot Test of Asphaltic Materials	3 (July)
T 103-08 (2017)	Soundness of Aggregates by Freezing and Thawing	3 (July)
T 104-99 (2020)	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	3 (July)
T 105-20	Chemical Analysis of Hydraulic Cement	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
T 106M/T 106-18	Compressive Strength of Hydraulic Cement Mortar (Using 50-mm or 2-in. Cube Specimens)	1 (April)
T 107M/T 107-18	Autoclave Expansion of Hydraulic Cement	1 (April)
T 110-03 (2020)	Moisture or Volatile Distillates in Hot Mix Asphalt (HMA)	3 (July)
T 111-11 (2019)	Mineral Matter or Ash in Asphalt Materials	3 (July)
T 112-00 (2017)	Clay Lumps and Friable Particles in Aggregate	3 (July)
T 113-18	Lightweight Pieces in Aggregate	3 (July)
T 119M/T 119-18	Slump of Hydraulic Cement Concrete	1 (April)
T 121M/T 121-19	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	1 (April)
T 129-14 (2018)	Amount of Water Required for Normal Consistency of Hydraulic Cement Paste	1 (April)
T 131-20	Time of Setting of Hydraulic Cement by Vicat Needle	1 (April)
T 132-87 (2018)	Air Content of Hydraulic Cement Mortar	1 (April)
T 133-19	Density of Hydraulic Cement	1 (April)
T 134-19	Moisture–Density Relations of Soil–Cement Mixtures	3 (July)
T 135-13 (2017)	Wetting-and-Drying Test of Compacted Soil–Cement Mixtures	3 (July)
T 136-13 (2017)	Freezing-and-Thawing Tests of Compacted Soil–Cement Mixtures	3 (July)
T 137-12 (2020)	Air Content of Hydraulic Cement Mortar	1 (April)
T 140-20	Compressive Strength of Concrete Using Portions of Beams Broken in Flexure	1 (April)
T 143-13 (2017)	Sampling and Testing Calcium Chloride for Roads and Structural Applications	2 (June)
T 148-15 (2019)	Measuring Length of Drilled Concrete Cores	1 (April)
T 152-19	Air Content of Freshly Mixed Concrete by the Pressure Method	1 (April)
T 153-20	Fineness of Hydraulic Cement by Air Permeability Apparatus	1 (April)
T 154-18	Time of Setting of Hydraulic Cement Paste by Gillmore Needles	1 (April)
T 155-13 (2017)	Water Retention by Liquid Membrane-Forming Curing Compounds for Concrete	1 (April)
T 157-12 (2020)	Air-Entraining Admixtures for Concrete	1 (April)
T 158-11 (2019)	Bleeding of Concrete	1 (April)
T 160-17	Length Change of Hardened Hydraulic Cement Mortar and Concrete	1 (April)
T 161-17	Resistance of Concrete to Rapid Freezing and Thawing	1 (April)
T 162-16 (2020)	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	1 (April)
T 164-14 (2018)	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)	3 (July)
T 166-16 (2020)	Bulk Specific Gravity (G_{mb}) of Compacted Asphalt Mixtures Using Saturated Surface-Dry Specimens	3 (July)
T 167-10 (2019)	Compressive Strength of Hot Mix Asphalt	3 (July)
T 176-17	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	3 (July)
T 177-17	Flexural Strength of Concrete (Using Simple Beam with Center-Point Loading)	1 (April)
T 178-15 (2019)	Portland-Cement Content of Hardened Hydraulic-Cement Concrete	1 (April)
T 179-05 (2018)	Effect of Heat and Air on Asphalt Materials (Thin-Film Oven Test)	3 (July)
T 180-20	Moisture–Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop	3 (July)
T 185-15 (2020)	Early Stiffening of Hydraulic Cement (Mortar Method)	1 (April)
T 186-20	Early Stiffening of Hydraulic Cement (Paste Method)	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
T 188-05 (2017)	Evaluation by Freezing and Thawing of Air-Entraining Additions to Hydraulic Cement	1 (April)
T 190-14 (2018)	Resistance R-Value and Expansion Pressure of Compacted Soils	3 (July)
T 191-14 (2018)	Density of Soil In-Place by the Sand-Cone Method	3 (July)
T 192-19	Fineness of Hydraulic Cement by the 45- μ m (No. 325) Sieve	1 (April)
T 193-13 (2017)	The California Bearing Ratio	3 (July)
T 194-97 (2018)	Determination of Organic Matter in Soils by Wet Combustion	3 (July)
T 195-18	Determining Degree of Particle Coating of Asphalt Mixtures	3 (July)
T 196M/T 196-11 (2019)	Air Content of Freshly Mixed Concrete by the Volumetric Method	1 (April)
T 197M/T 197-11 (2019)	Time of Setting of Concrete Mixtures by Penetration Resistance	1 (April)
T 198-15 (2019)	Splitting Tensile Strength of Cylindrical Concrete Specimens	1 (April)
T 201-15 (2019)	Kinematic Viscosity of Asphalts (Bitumens)	3 (July)
T 202-15 (2019)	Viscosity of Asphalts by Vacuum Capillary Viscometer	3 (July)
T 206-19	Penetration Test and Split-Barrel Sampling of Soils	3 (July)
T 207-12 (2020)	Thin-Walled Tube Sampling of Soils	3 (July)
T 208-15 (2019)	Unconfined Compressive Strength of Cohesive Soil	3 (July)
T 209-20	Theoretical Maximum Specific Gravity (G_{mm}) and Density of Asphalt Mixtures	3 (July)
T 210-15 (2019)	Aggregate Durability Index	3 (July)
T 211-90 (2017)	Determination of Cement Content in Cement-Treated Aggregate by the Method of Titration	3 (July)
T 213M/T 213-11 (2019)	Mass [Weight] of Coating on Aluminum-Coated Iron or Steel Articles	2 (June)
T 215-14 (2018)	Permeability of Granular Soils (Constant Head)	3 (July)
T 216-07 (2020)	One-Dimensional Consolidation Properties of Soils	3 (July)
T 217-14 (2018)	Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	3 (July)
T 218-86 (2018)	Sampling Hydrated Lime	1 (April)
T 219-87 (2018)	Testing Lime for Chemical Constituents and Particle Sizes	1 (April)
T 220-66 (2018)	Determination of the Strength of Soil-Lime Mixtures	3 (July)
T 221-90 (2017)	Repetitive Static Plate Load Test of Soils and Flexible Pavement Components for Use in Evaluation and Design of Airport and Highway Pavements	3 (July)
T 222-81 (2017)	Nonrepetitive Static Plate Load Test of Soils and Flexible Pavement Components for Use in Evaluation and Design of Airport and Highway Pavements	3 (July)
T 223-96 (2017)	Field Vane Shear Test in Cohesive Soil	3 (July)
T 225-16 (2020)	Diamond Core Drilling for Site Investigation	3 (July)
T 226-90 (2018)	Triaxial Compressive Strength of Undrained Rock Core Specimens without Pore Pressure Measurements	3 (July)
T 228-09 (2018)	Specific Gravity of Semi-Solid Asphalt Materials	3 (July)
T 231-17	Capping Cylindrical Concrete Specimens	1 (April)
T 232-90 (2018)	Determination of Lime Content in Lime-Treated Soils by Titration	1 (April)
T 233-02 (2019)	Density of Soil In-Place by Block, Chunk, or Core Sampling	3 (July)
T 236-08 (2018)	Direct Shear Test of Soils under Consolidated Drained Conditions	3 (July)
T 237-05 (2019)	Testing Epoxy Resin Adhesive	2 (June)
T 240-13 (2017)	Effect of Heat and Air on a Moving Film of Asphalt Binder (Rolling Thin-Film Oven Test)	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
T 241-95 (2017)	Helical Continuously Welded Seam Corrugated Steel Pipe	2 (June)
T 242-18	Frictional Properties of Paved Surfaces Using a Full-Scale Tire	1 (April)
T 243M/T 243-19	Sampling Procedure for Impact Testing of Structural Steel	2 (June)
T 244-20	Mechanical Testing of Steel Products	2 (June)
T 245-15 (2019)	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	3 (July)
T 246-10 (2019)	Resistance to Deformation and Cohesion of Hot Mix Asphalt (HMA) by Means of Hveem Apparatus	3 (July)
T 247-10 (2019)	Preparation of Test Specimens of Hot Mix Asphalt (HMA) by Means of California Kneading Compactor	3 (July)
T 249-03 (2020)	Helical Lock Seam Corrugated Pipe	2 (June)
T 250-05 (2019)	Thermoplastic Traffic Line Material	2 (June)
T 252-19	Measurements of Pore Pressures in Soils	3 (July)
T 253-02 (2020)	Coated Dowel Bars	2 (June)
T 255-00 (2017)	Total Evaporable Moisture Content of Aggregate by Drying	3 (July)
T 256-01 (2020)	Pavement Deflection Measurements	1 (April)
T 257-96 (2018)	Instrumental Photometric Measurements of Retroreflective Materials and Retroreflective Devices	2 (June)
T 258-81 (2018)	Determining Expansive Soils	3 (July)
T 259-02 (2017)	Resistance of Concrete to Chloride Ion Penetration	1 (April)
T 260-97 (2020)	Sampling and Testing for Chloride Ion in Concrete and Concrete Raw Materials	1 (April)
T 265-15 (2019)	Laboratory Determination of Moisture Content of Soils	3 (July)
T 267-86 (2018)	Determination of Organic Content in Soils by Loss on Ignition	3 (July)
T 269-14 (2018)	Percent Air Voids in Compacted Dense and Open Asphalt Mixtures	3 (July)
T 272-18	One-Point Method for Determining Maximum Dry Density and Optimum Moisture	3 (July)
T 273-86 (2018)	Soil Suction	3 (July)
T 275-17	Bulk Specific Gravity (G_{mb}) of Compacted Asphalt Mixtures Using Paraffin-Coated Specimens	3 (July)
T 276-17	Measuring Early-Age Compression Strength and Projecting Later-Age Strength	1 (April)
T 277-15 (2019)	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	1 (April)
T 278-90 (2017)	Surface Frictional Properties Using the British Pendulum Tester	1 (April)
T 279-18	Accelerated Polishing of Aggregates Using the British Wheel	1 (April)
T 280-14 (2018)	Concrete Pipe, Manhole Sections, or Tile	2 (June)
T 281-14 (2018)	Vitrified Clay Pipe	2 (June)
T 282-01 (2019)	Calibrating a Wheel Force or Torque Transducer Using a Calibration Platform (User Level)	1 (April)
T 283-14 (2018)	Resistance of Compacted Asphalt Mixtures to Moisture-Induced Damage	3 (July)
T 285-89 (2019)	Bend Test for Bars for Concrete Reinforcement	2 (June)
T 287-20	Asphalt Binder Content of Asphalt Mixtures by the Nuclear Method	3 (July)
T 288-12 (2016)	Determining Minimum Laboratory Soil Resistivity	3 (July)
T 289-91 (2018)	Determining pH of Soil for Use in Corrosion Testing	3 (July)
T 290-95 (2020)	Determining Water-Soluble Sulfate Ion Content in Soil	3 (July)
T 291-94 (2018)	Determining Water-Soluble Chloride Ion Content in Soil	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
T 295-13 (2017)	Specific Gravity or API Gravity of Liquid Asphalts by Hydrometer Method	3 (July)
T 296-10 (2020)	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	3 (July)
T 298-15 (2019)	High-Strain Dynamic Testing of Piles	3 (July)
T 300-11 (2020)	Force Ductility Test of Asphalt Materials	3 (July)
T 301-13 (2017)	Elastic Recovery Test of Asphalt Materials by Means of a Ductilometer	3 (July)
T 302-15 (2019)	Polymer Content of Polymer-Modified Emulsified Asphalt Residue and Asphalt Binders	3 (July)
T 303-00 (2017)	Accelerated Detection of Potentially Deleterious Expansion of Mortar Bars Due to Alkali-Silica Reaction	3 (July)
T 304-17 (2020)	Uncompacted Void Content of Fine Aggregate	3 (July)
T 305-14 (2018)	Determination of Draindown Characteristics in Uncompacted Asphalt Mixtures	3 (July)
T 306-11 (2019)	Progressing Auger Borings for Geotechnical Explorations	3 (July)
T 307-99 (2017)	Determining the Resilient Modulus of Soils and Aggregate Materials	3 (July)
T 308-18	Determining the Asphalt Binder Content of Hot Mix Asphalt (HMA) by the Ignition Method	3 (July)
T 309-20	Temperature of Freshly Mixed Portland Cement Concrete	1 (April)
T 310-19	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	3 (July)
T 311-20	Grain-Size Analysis of Granular Soil Materials	3 (July)
T 312-19	Preparing and Determining the Density of Asphalt Mixture Specimens by Means of the Superpave Gyrotory Compactor	3 (July)
T 313-19	Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)	3 (July)
T 314-12 (2016)	Determining the Fracture Properties of Asphalt Binder in Direct Tension (DT)	3 (July)
T 315-20	Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	3 (July)
T 316-19	Viscosity Determination of Asphalt Binder Using Rotational Viscometer	3 (July)
T 317-04 (2018)	Prediction of Asphalt-Bound Pavement Layer Temperatures	1 (April)
T 318-15 (2019)	Water Content of Freshly Mixed Concrete Using Microwave Oven Drying	1 (April)
T 319-15 (2019)	Quantitative Extraction and Recovery of Asphalt Binder from Asphalt Mixtures	3 (July)
T 320-07 (2020)	Determining the Permanent Shear Strain and Stiffness of Asphalt Mixtures Using the Superpave Shear Tester (SST)	3 (July)
T 321-17	Determining the Fatigue Life of Compacted Asphalt Mixtures Subjected to Repeated Flexural Bending	3 (July)
T 322-07 (2020)	Determining the Creep Compliance and Strength of Hot Mix Asphalt (HMA) Using the Indirect Tensile Test Device	3 (July)
T 323-03 (2020)	Determining the Shear Strength at the Interface of Bonded Layers of Portland Cement Concrete	1 (April)
T 324-19	Hamburg Wheel-Track Testing of Compacted Asphalt Mixtures	3 (July)
T 325-04 (2020)	Estimating the Strength of Concrete in Transportation Construction by Maturity Tests	1 (April)
T 326-05 (2018)	Uncompacted Void Content of Coarse Aggregate (As Influenced by Particle Shape, Surface Texture, and Grading)	3 (July)
T 327-12 (2020)	Resistance of Coarse Aggregate to Degradation by Abrasion in the Micro-Deval Apparatus	3 (July)
T 329-15 (2019)	Moisture Content of Asphalt Mixtures by Oven Method	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
T 330-07 (2019)	The Qualitative Detection of Harmful Clays of the Smectite Group in Aggregates Using Methylene Blue	3 (July)
T 331-13 (2017)	Bulk Specific Gravity (G_{mb}) and Density of Compacted Asphalt Mixtures Using Automatic Vacuum Sealing Method	3 (July)
T 332-07 (2020)	Determining Chloride Ions in Concrete and Concrete Materials by Specific Ion Probe	1 (April)
T 333-07 (2017)	Linear Coefficient of Shrinkage on Cure of Adhesive Systems	2 (June)
T 334-08 (2020)	Estimating the Cracking Tendency of Concrete	1 (April)
T 335-09 (2018)	Determining the Percentage of Fracture in Coarse Aggregate	3 (July)
T 336-15 (2019)	Coefficient of Thermal Expansion of Hydraulic Cement Concrete	1 (April)
T 337-09 (2019)	Non-Instrumental Determination of Metallic Zinc in Zinc-Rich Primers	2 (June)
T 338-09 (2019)	Analysis of Structural Steel Coatings for Hindered Amine Light Stabilizer (HALS)	2 (June)
T 339-10 (2019)	Analysis of Structural Steel Coatings for Isocyanate Content	2 (June)
T 340-10 (2019)	Determining Rutting Susceptibility of Hot Mix Asphalt (HMA) Using the Asphalt Pavement Analyzer (APA)	3 (July)
T 341-10 (2019)	Determination of Compression Capacity for Profile Wall Plastic Pipe by Stub Compression Loading	2 (June)
T 342-11 (2019)	Determining Dynamic Modulus of Hot Mix Asphalt (HMA)	3 (July)
T 343-12 (2020)	Density of In-Place Hot Mix Asphalt (HMA) Pavement by Electronic Surface Contact Devices	3 (July)
T 344-12 (2020)	Evaluation of Superpave Gyrotory Compactor (SGC) Internal Angle of Gyration Using Simulated Loading	3 (July)
T 345-12 (2020)	Passing Ability of Self-Consolidating Concrete (SCC) by J-Ring	1 (April)
T 346-13 (2017)	Glass Beads Used in Pavement Markings	2 (June)
T 347-13 (2017)	Slump Flow of Self-Consolidating Concrete (SCC)	1 (April)
T 348-13 (2018)	Air-Void Characteristics of Freshly Mixed Concrete by Buoyancy Change	1 (April)
T 349-13 (2017)	Filling Capacity of Self-Consolidating Concrete Using the Caisson Test	1 (April)
T 350-19	Multiple Stress Creep Recovery (MSCR) Test of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	3 (July)
T 351-14 (2018)	Visual Stability Index (VSI) of Self-Consolidating Concrete (SCC)	1 (April)
T 352-14 (2018)	Determining Formwork Pressure of Fresh Self-Consolidating Concrete (SCC) Using Pressure Transducers	1 (April)
T 353-14 (2018)	Particle Size Analysis of Hydraulic Cement and Related Materials by Light Scattering	1 (April)
T 354-17	Specific Gravity and Absorption of Aggregate by Volumetric Immersion Method	3 (July)
T 355-18	In-Place Density of Asphalt Mixtures by Nuclear Methods	3 (July)
T 356-15 (2019)	Determining Air Content of Hardened Portland Cement Concrete by High-Pressure Air Meter	1 (April)
T 357-15 (2019)	Predicting Chloride Penetration of Hydraulic Cement Concrete by the Rapid Migration Procedure	1 (April)
T 358-19	Surface Resistivity Indication of Concrete's Ability to Resist Chloride Ion Penetration	1 (April)
T 359M/T 359-18	Pavement Thickness by Magnetic Pulse Induction	1 (April)
T 360-16 (2020)	Measurement of Tire/Pavement Noise Using the On-Board Sound Intensity (OBSI) Method	1 (April)
T 361-16 (2020)	Determining Asphalt Binder Bond Strength by Means of the Binder Bond Strength (BBS) Test	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
T 362-17	Quantitative Determination of the Percentage of Lime in Asphalt Mixtures	3 (July)
T 363-17	Evaluating Stress Development and Cracking Potential due to Restrained Volume Change Using a Dual Ring Test	1 (April)
T 364-17	Determination of Composite Activation Energy of Aggregates due to Alkali-Silica Reaction (Chemical Method)	1 (April)
T 365-20	Quantifying Calcium Oxychloride Amounts in Cement Pastes Exposed to Deicing Salts	1 (April)
T 366-18	Apparent Viscosity of Hot-Poured Asphalt Crack Sealant Using Rotational Viscometer	2 (June)
T 368-17	Measuring Low-Temperature Flexural Creep Stiffness of Hot-Poured Asphalt Crack Sealant by Bending Beam Rheometer (BBR)	2 (June)
T 369-17	Evaluation of the Low-Temperature Tensile Property of Hot-Poured Asphalt Crack Sealant by Direct Tension Test	2 (June)
T 370-18	Measuring Adhesion of Hot-Poured Asphalt Crack Sealant Using Direct Adhesion Tester	2 (June)
T 371-17	Measuring Interfacial Fracture Energy of Hot-Poured Asphalt Crack Sealant Using a Blister Test	2 (June)
T 372M/T 372-17	Sensitivity of Stainless Steel to Intergranular Attack	2 (June)
T 373M/T 373-17	Comparative Qualitative Corrosion Characterization of Steel Bars Used for Concrete Reinforcement (Linear Polarization Resistance and Potentiodynamic Polarization Tests)	2 (June)
T 374M/T 374-17	Comparative Qualitative Corrosion Characterization of Uncoated Chromium-Alloyed Steel Bars Used for Concrete Reinforcement (Tombstone Test)	2 (June)
T 375M/T 375-17	Identification of Iron-Based Alloy Steel Bars for Concrete Reinforcement or Dowels by Handheld X-Ray Fluorescence (XRF) Spectrometer	2 (June)
T 376M/T 376-17	Microcell Slab Chloride Threshold	2 (June)
T 377-17	Detecting the Presence of Phosphorus in Asphalt Binder	3 (July)
T 378-17	Determining the Dynamic Modulus and Flow Number for Asphalt Mixtures Using the Asphalt Mixture Performance Tester (AMPT)	3 (July)
T 379-18	Nonlinear Impact Resonance Acoustic Spectroscopy (NIRAS) for Concrete Specimens with Damage from Alkali-Silica Reaction (ASR)	1 (April)
T 380-19	Potential Alkali Reactivity of Aggregates and Effectiveness of ASR Mitigation Measures (Miniature Concrete Prism Test, MCPT)	1 (April)
T 381-18	Determining Aggregate Shape Properties by Means of Digital Image Analysis	3 (July)
T 382-20	Determining the Viscosity of Emulsified Asphalt by a Rotational Paddle Viscometer	3 (July)
T 383-19	Evaluation of Asphalt Release Agents (ARAs)	3 (July)
T 384-19	Protective Sealers for Portland Cement Concrete	2 (June)
T 385-19	Deep Foundation Elements under Bidirectional Static Axial Compressive Load	3 (July)
T 386-19	Rapid Axial Compressive Load Testing of Deep Foundation Units	3 (July)
T 387-19	Determining the Cracking Temperature of Asphalt Binder Using the Asphalt Binder Cracking Device (ABCD)	3 (July)
T 388-20	Detectable Warning Systems	2 (June)
T 389-20	Determining the Influence of Road Surfaces on Vehicle Noise Using the Statistical Isolated Pass-By (SIP) Method	1 (April)
T 390-20	Determining the Influence of Road Surfaces on Traffic Noise Using the Continuous-Flow Traffic Time-Integrated Method (CTIM)	1 (April)
T 391-20	Estimating Fatigue Resistance of Asphalt Binders Using the Linear Amplitude Sweep	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
DELETED STANDARDS		
T 168-03 (2016)	Sampling Bituminous Paving Mixtures	3 (July)
T 367-17	Accelerated Aging of Hot-Poured Asphalt Crack Sealant Using a Vacuum Oven	2 (June)

PART 3—AASHTO PROVISIONAL STANDARDS

Subject Sequence Table of Contents

Master List (All Release Groups)

STD. NO.	TITLE	RELEASE (MONTH)
AGGREGATES		
PP 103-20	Sample Preparation and Polishing of Unbound Aggregates for Dynamic Friction Testing	3 (July)
PP 104-20	Sample Preparation and Polishing of Asphalt Mixture Specimens for Dynamic Friction Testing	3 (July)
TP 120-16 (2020)	Pore Index for Carbonate Coarse Aggregate	3 (July)
TP 139-20	Determining the Specific Gravity and Absorption of Lightweight Aggregate for Internally Cured Concrete Mixtures	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
BITUMINOUS MATERIALS		
MP 23-15 (2020)	Reclaimed Asphalt Shingles for Use in Asphalt Mixtures	3 (July)
MP 25-18 (2019)	Performance-Graded Hot-Poured Asphalt Crack Sealant	2 (June)
MP 27-16 (2020)	Materials for Emulsified Asphalt Chip Seals	1 (April)
MP 28-17 (2020)	Materials for Microsurfacing	1 (April)
MP 31-17	Materials for Cold Recycled Mixtures with Emulsified Asphalt	3 (July)
MP 32-17 (2019)	Materials for Slurry Seal	1 (April)
MP 33-17 (2019)	Materials for Emulsified Asphalt Fog Seal	1 (April)
MP 36-18 (2020)	Materials for Asphalt Tack Coat	3 (July)
MP 37-18 (2020)	Performance-Graded Asphalt Binder for Surface Treatments	3 (July)
MP 38-18 (2020)	Mix Design of Cold Recycled Mixture with Foamed Asphalt	3 (July)
PP 76-13 (2020)	Troubleshooting Asphalt Specimen Volumetric Differences between Superpave Gyrotory Compactors (SCGs) Used in the Design and the Field Management of Superpave Mixtures	3 (July)
PP 77-14 (2020)	Materials Selection and Mixture Design of Permeable Friction Courses (PFCs)	3 (July)
PP 78-17 (2020)	Design Considerations When Using Reclaimed Asphalt Shingles (RAS) in Asphalt Mixtures	3 (July)
PP 82-16 (2020)	Emulsified Asphalt Chip Seal Design	1 (April)
PP 83-16 (2020)	Microsurfacing Design	1 (April)
PP 85-18 (2019)	Grading or Verifying the Sealant Grade (SG) of a Hot-Poured Asphalt Crack Sealant	2 (June)
PP 86-20	Emulsified Asphalt Content of Cold Recycled Mixture Designs	3 (July)
PP 87-20	Slurry Seal Design	1 (April)
PP 88-17 (2019)	Emulsified Asphalt Fog Seal Design	1 (April)
PP 93-18 (2020)	Asphalt Tack Coat Design	3 (July)
PP 94-18 (2020)	Determining Optimum Asphalt Content of Cold Recycled Mixture with Foamed Asphalt	3 (July)
PP 95-18 (2020)	Preparation of Indirect Tension Performance Test Specimens	3 (July)
PP 96-18 (2020)	Developing Dynamic Modulus Master Curves for Hot Mix Asphalt (HMA) Using the Indirect Tension Testing Method	3 (July)
PP 99-19	Preparation of Small Cylindrical Performance Test Specimens Using the Superpave Gyrotory Compactor (SGC) or Field Cores	3 (July)
TP 101-12 (2018)	Estimating Fatigue Resistance of Asphalt Binders Using the Linear Amplitude Sweep	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
BITUMINOUS MATERIALS		
TP 105-20	Determining the Fracture Energy of Asphalt Mixtures Using the Semicircular Bend Geometry (SCB)	3 (July)
TP 107-18 (2020)	Determining the Damage Characteristic Curve of Asphalt Mixtures from Direct Tension Cyclic Fatigue Tests	3 (July)
TP 108-14 (2020)	Abrasion Loss of Asphalt Mixture Specimens	3 (July)
TP 113-15 (2019)	Determination of Asphalt Binder Resistance to Ductile Failure Using Double-Edge-Notched Tension (DENT) Test	3 (July)
TP 114-18 (2019)	Determining the Interlayer Shear Strength (ISS) of Asphalt Pavement Layers	3 (July)
TP 115-16 (2019)	Determining the Quality of Tack Coat Adhesion to the Surface of an Asphalt Pavement in the Field or Laboratory	3 (July)
TP 116-20	Rutting Resistance of Asphalt Mixtures Using Incremental Repeated Load Permanent Deformation (iRLPD)	3 (July)
TP 117-15 (2019)	Determination of the Voids of Dry Compacted Filler	3 (July)
TP 122-16 (2020)	Determination of Performance Grade of Physically Aged Asphalt Binder Using Extended Bending Beam Rheometer (BBR) Method	3 (July)
TP 123-16 (2020)	Measuring Asphalt Binder Yield Energy and Elastic Recovery Using the Dynamic Shear Rheometer	3 (July)
TP 124-20	Determining the Fracture Potential of Asphalt Mixtures Using the Illinois Flexibility Index Test (I-FIT)	3 (July)
TP 125-16 (2020)	Determining the Flexural Creep Stiffness of Asphalt Mixtures Using the Bending Beam Rheometer (BBR)	3 (July)
TP 126-18 (2019)	Evaluation of the Tracking Resistance of Hot-Poured Asphalt Crack Sealant by Dynamic Shear Rheometer (DSR)	2 (June)
TP 127-17 (2019)	Determining the Fracture Energy Density of Asphalt Binder Using the Binder Fracture Energy (BFE) Test	3 (July)
TP 128-17 (2019)	Evaluation of Oxidation Level of Asphalt Mixtures by a Portable Infrared Spectrometer	3 (July)
TP 131-18 (2020)	Determining Dynamic Modulus of Asphalt Concrete Using the Indirect Tension Test	3 (July)
TP 132-19	Determining the Dynamic Modulus for Asphalt Mixtures Using Small Specimens in the Asphalt Mixture Performance Tester (AMPT)	3 (July)
TP 133-19	Determining the Damage Characteristic Curve and Failure Criterion Using Small Specimens in the Asphalt Mixture Performance Tester (AMPT) Cyclic Fatigue Test	3 (July)
TP 134-19	Stress Sweep Rutting (SSR) Test Using Asphalt Mixture Performance Tester (AMPT)	3 (July)
TP 140-20	Moisture Sensitivity Using Hydrostatic Pore Pressure to Determine Cohesion and Adhesion Strength of Compacted Asphalt Mixture Specimens	3 (July)
TP 141-20	Determining the Indirect Tensile Nflex Factor to Assess the Cracking Resistance of Asphalt Mixtures	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
BOX CULVERT, CULVERT PIPE, AND DRAIN TILE		
MP 22-13 (2020)	Fiber-Reinforced Polymer Composite Materials for Highway and Bridge Structures	1 (April)
MP 40-19	Steel-Reinforced Polyethylene (PE) Ribbed Pipe 1650- to 3000-mm (66- to 120-in.) Diameter	2 (June)
MP 42-20	Steel-Reinforced Polyethylene (SRPE) Corrugated Pipe	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
BRIDGE AND PAVEMENT PRESERVATION		

PP 100-20	Ultrathin Bonded Wearing Course Design	1 (April)
PP 101-20	Emulsified Asphalt Content of Full-Depth Reclamation Mixture Design	1 (April)
MP 43-20	Materials for Emulsified Asphalt Scrub Seal	1 (April)
MP 44-20	Materials for Ultrathin Bonded Wearing Course	1 (April)
MP 45-20	Materials for Full-Depth Reclamation Mixtures with Emulsified Asphalt	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
CONCRETE, CURING MATERIALS, AND ADMIXTURES		

PP 84-20	Performance Engineered Concrete Pavement Mixtures	1 (April)
PP 89-19 (2020)	Grinding the Ends of Cylindrical Concrete Specimens	1 (April)
TP 118-17 (2018)	Characterization of the Air-Void System of Freshly Mixed Concrete by the Sequential Pressure Method	1 (April)
TP 119-15 (2019)	Electrical Resistivity of a Concrete Cylinder Tested in a Uniaxial Resistance Test	1 (April)
TP 129-18 (2020)	Vibrating Kelly Ball (VKelly) Penetration in Fresh Portland Cement Concrete	1 (April)
TP 135-20	Determining the Total Pore Volume in Hardened Concrete Using Vacuum Saturation	1 (April)
TP 136-20	Determining the Degree of Saturation of Hydraulic-Cement Concrete	1 (April)
TP 137-20	Box Test in Slip Form Paving of Fresh Portland Cement Concrete	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
METALLIC MATERIALS FOR BRIDGES		

TP 138-20	Weight and Diameter for Carbon-Steel for Steel Wire and Welded Wire Reinforcement for Concrete	2 (June)
-----------	--	----------

STD. NO.	TITLE	GROUP (MONTH)
MISCELLANEOUS		

MP 26-15 (2020)	Cotton Duck Fabric Bridge Bearings	2 (June)
PP 80-20	Continuous Thermal Profile of Asphalt Mixture Construction	1 (April)
PP 81-18 (2020)	Intelligent Compaction Technology for Embankment and Asphalt Pavement Applications	1 (April)
TP 103-19	<i>Adopted</i> —Detectable Warning Systems	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
PAINTING AND TRAFFIC MARKING AND SIGNING		

MP 24-15 (2020)	Waterborne White and Yellow Traffic Paints	2 (June)
PP 74-19	<i>Adopted</i> —Determination of Size and Shape of Glass Beads Used in Traffic Markings by Means of Computerized Optical Method	2 (June)
TP 106-20	Determination of Heavy Metal Content of Glass Beads Using X-Ray Fluorescence (XRF)	2 (June)
TP 111-14 (2020)	Measuring Retroreflectivity of Pavement Marking Materials Using a Mobile Retroreflectivity Unit	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
PAINTING AND TRAFFIC MARKING AND SIGNING		

TP 130-18 (2020)	Producing Draw Down Panels and Measuring the Coefficient of Retroreflected Luminance (RL) of Pavement Markings in a Laboratory Panel	2 (June)
------------------	--	----------

STD. NO.	TITLE	GROUP (MONTH)
PAVEMENT SURFACE AND STRUCTURE CHARACTERISTICS		

MP 34-18 (2020)	Materials for Sand Seals	1 (April)
MP 35-18 (2020)	Thin Overlay Treatments Using a Binder Resin System and Aggregate for Concrete Surfaces	2 (June)
MP 41-19	High Friction Surface Treatment for Asphalt and Concrete Pavements Using Calcined Bauxite	2 (June)
PP 90-18 (2020)	Sand Seal Design	1 (April)
PP 91-18 (2020)	Emulsified Asphalt Scrub Seal Design	1 (April)
TP 98-18	<i>Adopted</i> —Determining the Influence of Road Surfaces on Vehicle Noise Using the Statistical Isolated Pass-By Method (SIP)	1 (April)
TP 99-18	<i>Adopted</i> —Determining the Influence of Road Surfaces on Traffic Noise Using the Continuous-Flow Traffic Time-Integrated Method (CTIM)	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
QUALITY ASSURANCE		

MP 39-19	File Format of Intelligent Compaction Data	1 (April)
PP 97-19	Determination of Constant Mass	1 (April)
PP 98-20	Asphalt Surface Dielectric Profiling System Using Ground Penetrating Radar	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
SOILS AND STABILIZATION		

PP 92-19 (2020)	Preparation of Test Specimens Using the Plastic Mold Compaction Device	3 (July)
PP 102-20	Digital Interchange of Geotechnical Data	3 (July)
TP 112-19 (2020)	Determining In-Place Density and Moisture Content of Soil and Soil-Aggregate Using Complex Impedance Methodology	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
DELETED STANDARDS		

PP 73-13 (2018)	Quality Assurance, Job Site Quality Control, and Reapplication of Protective Sealers for Portland Cement Concrete	2 (June)
PP 79-14 (2016)	High-Friction Surface Treatment for Asphalt and Concrete Pavements	2 (June)
TP 92-14 (2018)	Determining the Cracking Temperature of Asphalt Binder Using the Asphalt Binder Cracking Device (ABCD)	3 (July)
TP 96-13 (2018)	Protective Sealers for Portland Cement Concrete	2 (June)
TP 100-12 (2018)	Deep Foundation Elements for Bi-Directional Static Axial Compressive Load	3 (July)
TP 104-13 (2015)	Rapid Axial Compressive Load Testing of Deep Foundation Units	3 (July)

PART 3—AASHTO PROVISIONAL STANDARDS

Numerical Sequence Table of Contents

Master List (All Release Groups)

STD. NO.	TITLE	GROUP (MONTH)
SPECIFICATIONS		
MP 22-13 (2020)	Fiber-Reinforced Polymer Composite Materials for Highway and Bridge Structures	1 (April)
MP 23-15 (2020)	Reclaimed Asphalt Shingles for Use in Asphalt Mixtures	3 (July)
MP 24-15 (2020)	Waterborne White and Yellow Traffic Paints	2 (June)
MP 25-18 (2019)	Performance-Graded Hot-Poured Asphalt Crack Sealant	2 (June)
MP 26-15 (2020)	Cotton Duck Fabric Bridge Bearings	2 (June)
MP 27-16 (2020)	Materials for Emulsified Asphalt Chip Seals	1 (April)
MP 28-17 (2020)	Materials for Microsurfacing	1 (April)
MP 31-17	Materials for Cold Recycled Mixtures with Emulsified Asphalt	3 (July)
MP 32-17	Materials for Slurry Seal	1 (April)
MP 33-17	Materials for Emulsified Asphalt Fog Seal	1 (April)
MP 34-18 (2020)	Materials for Sand Seals	1 (April)
MP 35-18 (2020)	Thin Overlay Treatments Using a Binder Resin System and Aggregate for Concrete Surfaces	2 (June)
MP 36-18 (2020)	Materials for Asphalt Tack Coat	3 (July)
MP 37-18 (2020)	Performance-Graded Asphalt Binder for Surface Treatments	3 (July)
MP 38-18 (2020)	Mix Design of Cold Recycled Mixture with Foamed Asphalt	3 (July)
MP 39-19	File Format of Intelligent Compaction Data	1 (April)
MP 40-19	Steel-Reinforced Polyethylene (PE) Ribbed Pipe 1650- to 3000-mm (66- to 120-in.) Diameter	2 (June)
MP 41-19	High Friction Surface Treatment for Asphalt and Concrete Pavements Using Calcined Bauxite	2 (June)
MP 42-20	Steel-Reinforced Polyethylene (SRPE) Corrugated Pipe	2 (June)
MP 43-20	Materials for Emulsified Asphalt Scrub Seal	1 (April)
MP 44-20	Materials for Ultrathin Bonded Wearing Course	1 (April)
MP 45-20	Materials for Full-Depth Reclamation Mixtures with Emulsified Asphalt	1 (April)
MP 46-20	Balanced Mix Design	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
PRACTICES		
PP 74-19	<i>Adopted</i> —Determination of Size and Shape of Glass Beads Used in Traffic Markings by Means of Computerized Optical Method	2 (June)
PP 76-13 (2020)	Troubleshooting Asphalt Specimen Volumetric Differences between Superpave Gyrotory Compactors (SCGs) Used in the Design and the Field Management of Superpave Mixtures	3 (July)
PP 77-14 (2020)	Materials Selection and Mixture Design of Permeable Friction Courses (PFCs)	3 (July)
PP 78-17 (2020)	Design Considerations When Using Reclaimed Asphalt Shingles (RAS) in Asphalt Mixtures	3 (July)
PP 80-20	Continuous Thermal Profile of Asphalt Mixture Construction	1 (April)

STD. NO.	TITLE	GROUP (MONTH)
PRACTICES		
PP 81-18 (2020)	Intelligent Compaction Technology for Embankment and Asphalt Pavement Applications	1 (April)
PP 82-16 (2020)	Emulsified Asphalt Chip Seal Design	1 (April)
PP 83-16 (2020)	Microsurfacing Design	1 (April)
PP 84-20	Performance Engineered Concrete Pavement Mixtures	1 (April)
PP 85-18 (2019)	Grading or Verifying the Sealant Grade (SG) of a Hot-Poured Asphalt Crack Sealant	2 (June)
PP 86-20	Emulsified Asphalt Content of Cold Recycled Mixture Designs	3 (July)
PP 87-20	Slurry Seal Design	1 (April)
PP 88-17	Emulsified Asphalt Fog Seal Design	1 (April)
PP 89-19 (2020)	Grinding the Ends of Cylindrical Concrete Specimens	1 (April)
PP 90-18 (2020)	Sand Seal Design	1 (April)
PP 91-18 (2020)	Emulsified Asphalt Scrub Seal Design	1 (April)
PP 92-19 (2020)	Preparation of Test Specimens Using the Plastic Mold Compaction Device	3 (July)
PP 93-18 (2020)	Asphalt Tack Coat Design	3 (July)
PP 94-18 (2020)	Determining Optimum Asphalt Content of Cold Recycled Mixture with Foamed Asphalt	3 (July)
PP 95-18 (2020)	Preparation of Indirect Tension Performance Test Specimens	3 (July)
PP 96-18 (2020)	Developing Dynamic Modulus Master Curves for Hot Mix Asphalt (HMA) Using the Indirect Tension Testing Method	3 (July)
PP 97-19	Determination of Constant Mass	1 (April)
PP 98-20	Asphalt Surface Dielectric Profiling System Using Ground Penetrating Radar	1 (April)
PP 99-19	Preparation of Small Cylindrical Performance Test Specimens Using the Superpave Gyrotory Compactor (SGC) or Field Cores	3 (July)
PP 100-20	Ultrathin Bonded Wearing Course Design	1 (April)
PP 101-20	Emulsified Asphalt Content of Full-Depth Reclamation Mixture Design	1 (April)
PP 102-20	Digital Interchange of Geotechnical Data	3 (July)
PP 103-20	Sample Preparation and Polishing of Unbound Aggregates for Dynamic Friction Testing	3 (July)
PP 104-20	Sample Preparation and Polishing of Asphalt Mixture Specimens for Dynamic Friction Testing	3 (July)
PP 105-20	Balanced Design of Asphalt Mixtures	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
TESTS		
TP 98-18	<i>Adopted</i> —Determining the Influence of Road Surfaces on Vehicle Noise Using the Statistical Isolated Pass-By Method (SIP)	1 (April)
TP 99-18	<i>Adopted</i> —Determining the Influence of Road Surfaces on Traffic Noise Using the Continuous-Flow Traffic Time-Integrated Method (CTIM)	1 (April)
TP 101-12 (2018)	<i>Adopted</i> —Estimating Fatigue Resistance of Asphalt Binders Using the Linear Amplitude Sweep	3 (July)
TP 103-19	<i>Adopted</i> —Detectable Warning Systems	2 (June)
TP 105-20	Determining the Fracture Energy of Asphalt Mixtures Using the Semicircular Bend Geometry (SCB)	3 (July)
TP 106-20	Determination of Heavy Metal Content of Glass Beads Using X-Ray Fluorescence (XRF)	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
TESTS		
TP 107-18 (2020)	Determining the Damage Characteristic Curve of Asphalt Mixtures from Direct Tension Cyclic Fatigue Tests	3 (July)
TP 108-14 (2020)	Abrasion Loss of Asphalt Mixture Specimens	3 (July)
TP 111-14 (2020)	Measuring Retroreflectivity of Pavement Marking Materials Using a Mobile Retroreflectivity Unit	2 (June)
TP 112-19 (2020)	Determining In-Place Density and Moisture Content of Soil and Soil-Aggregate Using Complex Impedance Methodology	3 (July)
TP 113-15 (2019)	Determination of Asphalt Binder Resistance to Ductile Failure Using Double-Edge-Notched Tension (DENT) Test	3 (July)
TP 114-18 (2019)	Determining the Interlayer Shear Strength (ISS) of Asphalt Pavement Layers	3 (July)
TP 115-16 (2019)	Determining the Quality of Tack Coat Adhesion to the Surface of an Asphalt Pavement in the Field or Laboratory	3 (July)
TP 116-20	Rutting Resistance of Asphalt Mixtures Using Incremental Repeated Load Permanent Deformation (iRLPD)	3 (July)
TP 117-15 (2019)	Determination of the Voids of Dry Compacted Filler	3 (July)
TP 118-17 (2018)	Characterization of the Air-Void System of Freshly Mixed Concrete by the Sequential Pressure Method	1 (April)
TP 119-15 (2019)	Electrical Resistivity of a Concrete Cylinder Tested in a Uniaxial Resistance Test	1 (April)
TP 120-16 (2020)	Pore Index for Carbonate Coarse Aggregate	3 (July)
TP 122-16 (2020)	Determination of Performance Grade of Physically Aged Asphalt Binder Using Extended Bending Beam Rheometer (BBR) Method	3 (July)
TP 123-16 (2020)	Measuring Asphalt Binder Yield Energy and Elastic Recovery Using the Dynamic Shear Rheometer	3 (July)
TP 124-20	Determining the Fracture Potential of Asphalt Mixtures Using the Illinois Flexibility Index Test (I-FIT)	3 (July)
TP 125-16 (2020)	Determining the Flexural Creep Stiffness of Asphalt Mixtures Using the Bending Beam Rheometer (BBR)	3 (July)
TP 126-18 (2019)	Evaluation of the Tracking Resistance of Hot-Poured Asphalt Crack Sealant by Dynamic Shear Rheometer (DSR)	2 (June)
TP 127-17 (2019)	Determining the Fracture Energy Density of Asphalt Binder Using the Binder Fracture Energy (BFE) Test	3 (July)
TP 128-17 (2019)	Evaluation of Oxidation Level of Asphalt Mixtures by a Portable Infrared Spectrometer	3 (July)
TP 129-18 (2020)	Vibrating Kelly Ball (VKelly) Penetration in Fresh Portland Cement Concrete	1 (April)
TP 130-18 (2020)	Producing Draw Down Panels and Measuring the Coefficient of Retroreflected Luminance (RL) of Pavement Markings in a Laboratory Panel	2 (June)
TP 131-18 (2020)	Determining Dynamic Modulus of Asphalt Concrete Using the Indirect Tension Test	3 (July)
TP 132-19	Determining the Dynamic Modulus for Asphalt Mixtures Using Small Specimens in the Asphalt Mixture Performance Tester (AMPT)	3 (July)
TP 133-19	Determining the Damage Characteristic Curve and Failure Criterion Using Small Specimens in the Asphalt Mixture Performance Tester (AMPT) Cyclic Fatigue Test	3 (July)
TP 134-19	Stress Sweep Rutting (SSR) Test Using Asphalt Mixture Performance Tester (AMPT)	3 (July)
TP 135-20	Determining the Total Pore Volume in Hardened Concrete Using Vacuum Saturation	1 (April)
TP 136-20	Determining the Degree of Saturation of Hydraulic-Cement Concrete	1 (April)
TP 137-20	Box Test in Slip Form Paving of Fresh Portland Cement Concrete	1 (April)
TP 138-20	Weight and Diameter for Carbon-Steel for Steel Wire and Welded Wire Reinforcement for Concrete	2 (June)

STD. NO.	TITLE	GROUP (MONTH)
TESTS		
TP 139-20	Determining the Specific Gravity and Absorption of Lightweight Aggregate for Internally Cured Concrete Mixtures	3 (July)
TP 140-20	Moisture Sensitivity Using Hydrostatic Pore Pressure to Determine Cohesion and Adhesion Strength of Compacted Asphalt Mixture Specimens	3 (July)
TP 141-20	Determining the Indirect Tensile Nflex Factor to Assess the Cracking Resistance of Asphalt Mixtures	3 (July)

STD. NO.	TITLE	GROUP (MONTH)
DELETED STANDARDS		
PP 73-13 (2018)	Quality Assurance, Job Site Quality Control, and Reapplication of Protective Sealers for Portland Cement Concrete	2 (June)
PP 79-14 (2016)	High-Friction Surface Treatment for Asphalt and Concrete Pavements	2 (June)
TP 92-14 (2018)	Determining the Cracking Temperature of Asphalt Binder Using the Asphalt Binder Cracking Device (ABCD)	3 (July)
TP 96-13 (2018)	Protective Sealers for Portland Cement Concrete	2 (June)
TP 100-12 (2018)	Deep Foundation Elements for Bi-Directional Static Axial Compressive Load	3 (July)
TP 104-13 (2015)	Rapid Axial Compressive Load Testing of Deep Foundation Units	3 (July)

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; however, any standard that is neither revised nor reconfirmed but contains such changes does include an endnote stating that minor editorial revisions have been made.

Release: Group 3 (July 2020)

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
M 29-12 (2020)	Fine Aggregate for Bituminous Paving Mixtures	1c	Reconfirmed for 2020 publication.
M 45-16 (2020)	Aggregate for Masonry Mortar	1c	Reconfirmed for 2020 publication.
M 140-20	Emulsified Asphalt	2a	Added HFSM-1 to Table 1.
M 332-20	Performance-Graded Asphalt Binder Using Multiple Stress Creep Recovery (MSCR) Test	2b	Minor revisions: <ul style="list-style-type: none"> • Clarified terminology in Sections 1.2 and 4.2. • Removed confusing terminology in Table 1, note g.
R 13-12 (2020)	Conducting Geotechnical Subsurface Investigations	1b	Reconfirmed for 2020 publication.
R 66-16 (2020)	Sampling Asphalt Materials	2a	Reconfirmed for 2020 publication.
R 67-20	Sampling Asphalt Mixtures after Compaction (Obtaining Cores)	2c	Revised as follows: <ul style="list-style-type: none"> • Added an appendix with instructions for removing cut-aggregate particles from pavement cores in preparation for further testing. • Other minor revisions throughout.
R 74-16 (2020)	Wet Preparation of Disturbed Soil Samples for Test	1a	Reconfirmed for 2020 publication.
R 75-16 (2020)	Developing a Family of Curves	1b	Reconfirmed for 2020 publication.
R 76-16 (2020)	Reducing Samples of Aggregate to Testing Size	1c	Reconfirmed for 2020 publication.
R 77-16 (2020)	Certifying Suppliers of Emulsified Asphalt	2a	Reconfirmed for 2020 publication.
R 78-16 (2020)	Recovering Residue from Emulsified Asphalt Using Low-Temperature Evaporative Techniques	2a	Reconfirmed for 2020 publication.

Release: Group 2 (June 2020)

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
M 33M/M 33-20	Preformed Expansion Joint Filler for Concrete (Bituminous Type)	4e	Changed to dual units for equivalency with ASTM D994/D994M-11(2016).
M 36-16 (2020)	Corrugated Steel Pipe, Metallic-Coated, for Sewers and Drains	4b	Reconfirmed for 2020 publication.
M 86M/M 86-20	Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe	4a	<p>In Section 6.2, to make cementitious materials requirements consistent with ASTM C14 and C14M:</p> <ul style="list-style-type: none"> • Updated references to <i>slag-modified portland cement</i>. • Updated references to <i>ground granulated blast-furnace slag</i>. • Added references to <i>portland-limestone cements</i>. • Dropped limits on 25 percent fly ash and 25 percent slag cement in ternary combinations. • Added a permitted combination of portland-pozzolan cement with fly ash.
M 133-12 (2020)	Preservatives and Pressure Treatment Processes for Timber	4c	Reconfirmed for 2020 publication.
M 153-20	Preformed Sponge Rubber, Cork, and Recycled Rubber Expansion Joint Fillers for Concrete Paving and Structural Construction	4e	<p>Revised for equivalency with ASTM D1752-18 as follows:</p> <ul style="list-style-type: none"> • In Section 3.1, added strip sizes to ordering information. • In Section 5.4, added a comma for clarity. • In Section 6.1, changed <i>depth</i> to <i>width</i>.

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
M 163M/M 163-20	Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application	4f	<p>Revised Table 2 extensively for equivalency with ASTM A743/A743M-19:</p> <ul style="list-style-type: none"> • Combined <i>Grade and Type</i>. • Rearranged order of some chemicals. • Changed Columbium to Niobium. • Moved Selenium, Tungsten, and Vanadium to a column labeled “Other.” • Added note about ellipses. • Noted all values are a maximum except where a range is provided. • Added note that Columbium (Cb) and Niobium (Nb) are interchangeable names for the same element, 41. • Added maximum for Cu content on Grades CK35MN and HG10MNN. <p>Added Section 8.3.3 for Grade HG10MNN.</p> <p>Revised Section S12.</p>
M 168-07 (2020)	Wood Products	4e	Reconfirmed for 2020 publication.
M 169-20	Steel Bars, Carbon and Alloy, Cold-Finished	4f	<p>Revised for equivalency with ASTM A108-18 as follows:</p> <ul style="list-style-type: none"> • In Section 1.1, deleted “to checmical Compositions” from first sentence. • In Section 3.1, added “the” before “purchaser” for clarity. • In Section 6.3, added Section 6.3.2.5, induction hardened, as a heat treatment process.
M 170-20	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe	4a	<p>In Section 6.2, to make cementitious materials requirements consistent with ASTM C76:</p> <ul style="list-style-type: none"> • Updated references to <i>slag-modified portland cement</i>. • Updated references to <i>ground granulated blast-furnace slag</i>. • Added references to <i>portland-limestone cements</i>.

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
M 170M-20	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe [Metric]	4a	<p>In Section 6.2, to make cementitious materials requirements consistent with ASTM C76M:</p> <ul style="list-style-type: none"> • Updated references to <i>slag-modified portland cement</i>. • Updated references to <i>ground granulated blast-furnace slag</i>. • Added references to <i>portland-limestone cements</i>.
M 175M/M 175-05 (2020)	Perforated Concrete Pipe	4a	Reconfirmed for 2020 publication.
M 176M/M 176-20	Porous Concrete Pipe	4a	<p>In Section 6.2, to make cementitious materials requirements consistent with ASTM C654:</p> <ul style="list-style-type: none"> • Updated references to <i>slag-modified portland cement</i>. • Updated references to <i>ground granulated blast-furnace slag</i>. • Added references to <i>portland-limestone cements</i>. • Dropped limits on 25 percent fly ash and 25 percent slag cement in ternary combinations, and 25 percent fly ash in Type IP cements. • Updated reference for portland blast-furnace slag cement to M 240 rather than M 302. • Added an option to use a combination of portland-pozzolan cement and fly ash.
M 178M/M 178-20	Concrete Drain Tile	4a	<p>In Section 6.2, to make cementitious materials requirements consistent with ASTM C412:</p> <ul style="list-style-type: none"> • Updated references to <i>slag-modified portland cement</i>. • Updated references to <i>ground granulated blast-furnace slag</i>. • Added references to <i>portland-limestone cements</i>. • Dropped limits on 25 percent fly ash and 25 percent slag cement in ternary combinations. • Revised reference from ASTM C989 to M 302. • Added an option to use a combination of portland-pozzolan cement and fly ash.
M 197-20	Aluminum Alloy Sheet for Corrugated Aluminum Pipe	4b	Minor revisions were made to Section 5.1 and Table 3.

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
M 203M/M 203-20	Steel Strand, Uncoated Seven-Wire for Concrete Reinforcement	4f	<ul style="list-style-type: none"> • Clarified portions of the standard related to splicing. • Revised Section 3, 4, 7, 8, 11.1, and 13.1 for equivalency with ASTM A416-18.
M 206M/M 206-20	Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe	4a	<p>In Section 6.2, to make cementitious materials requirements consistent with ASTM C506:</p> <ul style="list-style-type: none"> • Updated references to <i>slag-modified portland cement</i>. • Updated references to <i>ground granulated blast-furnace slag</i>. • Added references to <i>portland-limestone cements</i>.
M 207M/M 207-20	Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe	4a	<p>In Section 6.2, to make cementitious materials requirements consistent with ASTM C507:</p> <ul style="list-style-type: none"> • Updated references to <i>slag-modified portland cement</i>. • Updated references to <i>ground granulated blast-furnace slag</i>. • Added references to <i>portland-limestone cements</i>.
M 218-03 (2020)	Steel Sheet, Zinc-Coated (Galvanized), for Corrugated Steel Pipe	4b	Reconfirmed for 2020 publication.
M 230-07 (2020)	Expanded and Extruded Foam Board (Polystyrene)	4e	Reconfirmed for 2020 publication.
M 242M/M 242-20	Reinforced Concrete D-Load Culvert, Storm Drain, and Sewer Pipe	4a	<p>In Section 6.2, to make cementitious materials requirements consistent with ASTM C655 and C655M:</p> <ul style="list-style-type: none"> • Updated references to <i>slag-modified portland cement</i>. • Updated references to <i>ground granulated blast-furnace slag</i>. • Added references to <i>portland-limestone cements</i>. • Removed limitation on 25 percent fly ash in combinations with portland-pozzolan cement.

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
M 245-20	Corrugated Steel Pipe, Polymer-Precoated, for Sewers and Drains	4b	<p>Revised the following for equivalency with ASTM A762/A762M-19:</p> <ul style="list-style-type: none"> • In Section 2.2, updated ASTM references. • In Section 6.5, updated citation from ASTM C990 to ASTM C443. • In Section 7.1.2, added corrugations with pitches of 125 mm. • In Section 7.2, changed to pipe diameters smaller than 525 mm. • In Table 4, nominal size in last row corrected to 125 by 25. • In Table 8, extensive revisions made to match corresponding table in ASTM A762. • In Table 11, added 125 by 25 to table caption. • In Table 12, extensive revisions made to match corresponding table in ASTM A762. • In Table 13, value for <i>L</i> in second-to-last row changed from 338 to 336. • In Table 15, a number of 285 entries changed to 265.
M 249-12 (2020)	White and Yellow Reflective Thermoplastic Striping Material (Solid Form)	4c	Reconfirmed for 2020 publication.
M 251-06 (2020)	Plain and Laminated Elastomeric Bridge Bearings	4e	Reconfirmed for 2020 publication.
M 252-20	Corrugated Polyethylene Drainage Pipe	4b	In Section 9.1.1, specimen minimum size set at 300 mm (12 in.) and loading plate length requirement added.
M 259-20	Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers	4a	<p>In Section 6.2, revised cementitious materials requirements as follows:</p> <ul style="list-style-type: none"> • Included slag cement meeting M 302 as a permitted ingredient in combinations. • Added references to <i>portland-limestone cements</i>. • Dropped limits on 25 percent fly ash and 25 percent slag cement in ternary combinations. • Added option to use combinations of portland-limestone cement with fly ash, and portland or portland-limestone cement with slag and/or fly ash, portland-pozzolan cement and fly ash.

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
M 259M-17	Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers [Metric]	4a	Discontinued due to lack of use with metric values. Readers are directed to M 259 instead.
M 262-11 (2020)	Concrete Pipe and Related Products	4a	Reconfirmed for 2020 publication.
M 270M/M 270-20	Structural Steel for Bridges	4f	Revised for equivalency with ASTM A709-17 as follows: <ul style="list-style-type: none"> Added new QST grades. Revised Sections 1, 2, 6, 8, 11, and 12, and Tables 11 and 12.
M 273-20	Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers with Less Than 2 ft of Cover Subjected to Highway Loadings	4a	In Section 6.2, revised cementitious materials requirements as follows: <ul style="list-style-type: none"> Included slag cement meeting M 302 as a permitted ingredient in combinations. Added references to <i>portland-limestone cements</i>. Dropped limits on 25 percent fly ash and 25 percent slag cement in ternary combinations. Added option to use combinations of portland-limestone cement with fly ash, and portland or portland-limestone cement with slag and/or fly ash, portland-pozzolan cement and fly ash.
M 273M-17	Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers with Less Than 2 ft of Cover Subjected to Highway Loadings [Metric]	4a	Discontinued due to lack of use with metric values. Readers are directed to M 273 instead.
M 275M/M 275-20	Uncoated High-Strength Steel Bars for Prestressing Concrete	4f	Revised for equivalency with ASTM A722/A722M-18 as follows: <ul style="list-style-type: none"> Removed Section 6.5.
M 280-20	Metallic-Coated (Carbon) Steel Barbed Wire	4d	Revised to match ASTM A121 regarding the use of couplers.
M 292M/M 292-20	Carbon and Alloy Steel Nuts for Bolts for High-Pressure or High-Temperature Service, or Both	4f	Revised for equivalency with ASTM A194/A194M-18 as follows: <ul style="list-style-type: none"> Revised Table 1 and Grade 8M in Table S1.2.
M 330-20	Polypropylene Pipe, 300- to 1500-mm (12- to 60-in.) Diameter	4b	<ul style="list-style-type: none"> In Section 6.1.1, revised polypropylene property requirements for extruded pipe and fittings. In Table 1, specified Procedure B of ASTM D790 and deleted Maximum Value column. In Section 7.2.3, revised inside diameter tolerances.
M 333-16 (2020)	Detectable Warning Surfaces	4d	Reconfirmed for 2020 publication.

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
M 336M/M 336-20	Steel Wire and Welded Wire, Plain and Deformed, for Concrete Reinforcement	4f	Revised for equivalency with ASTM A1064/A1064M-18a as follows: <ul style="list-style-type: none"> Revised Sections 6.4.4.3, 10.2.1, 10.2.2, and 13.3.
R 69-20	Determination of Long-Term Strength for Geosynthetic Reinforcement	4e	Revised to address both updates to non-aggressive environments to be consistent with the current <i>AASHTO LRFD Bridge Design Specifications</i> and proposed revisions for geostrips.
R 73-16 (2020)	Evaluation of Precast Concrete Drainage Products	4a	Reconfirmed for 2020 publication.
R 98-20	Determination of Size and Roundness of Glass Beads Used in Traffic Markings by Means of Computerized Optical Method	4c	Adopted AASHTO Provisional standard PP 74 as a full standard practice, R 98, with minor revisions as follows: <ul style="list-style-type: none"> In Table 1, last column, add “(minimum)” to heading and “.0” to each value. In Note 9, revised example weights to align with Section 11.1.1.

Release: Group 1 (April 2020)

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
M 85-20	Portland Cement	3a	Changed Section 9.1.4 and a row heading in Table 4 from “false set” to “early stiffening” to more accurately reflect the results of T 186 testing.
M 152M/M 152-16 (2020)	Flow Table for Use in Tests of Hydraulic Cement	3a	Reconfirmed for 2020 publication.
M 154M/M 154-12 (2020)	Air-Entraining Admixtures for Concrete	3b	Reconfirmed for 2020 publication.
M 201-15 (2020)	Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes	3a	Reconfirmed for 2020 publication.
M 216-13 (2017)	Quicklime and Hydrated Lime for Soil Stabilization	3a	Editorially revised: ASTM equivalency designation number updated to C977-18.
M 224-91 (2019)	Use of Protective Sealers for Portland Cement Concrete	5b	Administratively moved from TS 5b to TS 4b and thus from Group 1 to Group 2; no technical changes.
M 240M/M 240-20	Blended Hydraulic Cement	3a	Added language in Section 15.6 to note that the chloride content of a cement is available upon request.

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
M 302-19	Slag Cement for Use in Concrete and Mortars	3b	Editorially revised: Note 4 added for clarification and ASTM harmonization.
R 10-16 (2020)	Definition of Terms Related to Quality and Statistics as Used in Highway Construction	5c	Reconfirmed for 2020 publication.
R 32-20	Calibrating the Load Cell and Deflection Sensors for a Falling Weight Deflectometer	5a	Revised extensively to reflect current industry practice, incorporate new calibration software requirements, and incorporate feedback and recommendations from users of the standards.
R 33-20	Calibrating the Reference Load Cell Used for Reference Calibrations for a Falling Weight Deflectometer	5a	Revised extensively to reflect current industry practice, incorporate new calibration software requirements, and incorporate feedback and recommendations from users of the standards.
R 42-06 (2020)	Developing a Quality Assurance Plan for Hot Mix Asphalt (HMA)	5c	Reconfirmed for 2020 publication.
R 60-12 (2020)	Sampling Freshly Mixed Concrete	3b	Reconfirmed for 2020 publication.
R 61-12 (2020)	Establishing Requirements for Equipment Calibrations, Standardizations, and Checks	5c	Reconfirmed for 2020 publication.
R 71-16 (2020)	Sampling and Amount of Testing of Hydraulic Cement	3a	Reconfirmed for 2020 publication.
R 72-16 (2020)	Match Curing of Concrete Test Specimens	3c	Reconfirmed for 2020 publication.

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. Unballoted editorial changes do not receive the change bar; however, any standard that is neither revised nor reconfirmed but contains such changes does include an endnote stating that minor editorial revisions have been made.

Release: Group 3 (July 2020)

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
T 11-20	Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	1c	Updated language on mechanical washing apparatus, including how long the apparatus can run, based on findings in <i>NCHRP Research Results Digest 389</i> .
T 21M/T 21-20	Organic Impurities in Fine Aggregates for Concrete	1c	Revised to reflect recent ASTM C40 updates on Gardner color scale.
T 27-20	Sieve Analysis of Fine and Coarse Aggregates	1c	Revised to align as well as possible with recently adopted T 30 changes.
T 37-07 (2020)	Sieve Analysis of Mineral Filler for Hot Mix Asphalt (HMA)	2c	Reconfirmed for 2020 publication.
T 79-12 (2020)	Flash Point with Tag Open-Cup Apparatus for Use with Material Having a Flash Point Less Than 93°C (200°F)	2a	Reconfirmed for 2020 publication.
T 88-20	Particle Size Analysis of Soils	1a	Revised Section 3.1.5 to add a tolerance of ± 1 in. to cylinder height.
T 90-20	Determining the Plastic Limit and Plasticity Index of Soils	1a	Revised Section 6.4 to clarify when a satisfactory endpoint for the plastic limit has been reached.
T 104-99 (2020)	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	1c	Reconfirmed for 2020 publication.
T 110-03 (2020)	Moisture or Volatile Distillates in Hot Mix Asphalt (HMA)	2c	Reconfirmed for 2020 publication.
T 166-16 (2020)	Bulk Specific Gravity (G_{mb}) of Compacted Asphalt Mixtures Using Saturated Surface-Dry Specimens	2c	Reconfirmed for 2020 publication.
T 168-03 (2016)	Sampling Bituminous Paving Mixtures	2c	Deleted.
T 180-20	Moisture–Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop	1b	Revised to add a precision and bias statement.

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
T 207-12 (2020)	Thin-Walled Tube Sampling of Soils	1b	Reconfirmed for 2020 publication.
T 209-20	Theoretical Maximum Specific Gravity (G_{mm}) and Density of Asphalt Mixtures	2c	Revised to include <ul style="list-style-type: none"> an equation and an example for calculating the weighted average maximum specific gravity of large-size samples tested in portions and an option for obtaining samples from pavement cores.
T 216-07 (2020)	One-Dimensional Consolidation Properties of Soils	1a	Reconfirmed for 2020 publication.
T 225-16 (2020)	Diamond Core Drilling for Site Investigation	1b	Reconfirmed for 2020 publication.
T 287-20	Asphalt Binder Content of Asphalt Mixtures by the Nuclear Method	2c	Revised as follows: <ul style="list-style-type: none"> Added a minimum test (count) time of 4 min. as a requirement in Section 8.7. Added a note indicating that precision of the test results may be improved with longer test times.
T 290-95 (2020)	Determining Water-Soluble Sulfate Ion Content in Soil	1a	Reconfirmed for 2020 publication.
T 296-10 (2020)	Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	1a	Reconfirmed for 2020 publication.
T 300-11 (2020)	Force Ductility Test of Asphalt Materials	2a	Reconfirmed for 2020 publication.
T 304-17 (2020)	Uncompacted Void Content of Fine Aggregate	1c	Reconfirmed for 2020 publication.
T 311-20	Grain-Size Analysis of Granular Soil Materials	1a	Revised Sections 2.1 and 7.4 to include reference to PP 97 and to clarify how constant mass is defined.
T 315-20	Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	2b	Revised Sections 12.2 and X1.8.1 to reconcile contradictory statements regarding linear region reference.
T 320-07 (2020)	Determining the Permanent Shear Strain and Stiffness of Asphalt Mixtures Using the Superpave Shear Tester (SST)	2d	Reconfirmed for 2020 publication.
T 322-07 (2020)	Determining the Creep Compliance and Strength of Hot Mix Asphalt (HMA) Using the Indirect Tensile Test Device	2d	Reconfirmed for 2020 publication.
T 327-12 (2020)	Resistance of Coarse Aggregate to Degradation by Abrasion in the Micro-Deval Apparatus	1c	Reconfirmed for 2020 publication.

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
T 343-12 (2020)	Density of In-Place Hot Mix Asphalt (HMA) Pavement by Electronic Surface Contact Devices	2c	Reconfirmed for 2020 publication.
T 344-12 (2020)	Evaluation of Superpave Gyrotory Compactor (SGC) Internal Angle of Gyration Using Simulated Loading	2d	Reconfirmed for 2020 publication.
T 361-16 (2020)	Determining Asphalt Binder Bond Strength by Means of the Binder Bond Strength (BBS) Test	2a	Reconfirmed for 2020 publication.
T 382-20	Determining the Viscosity of Emulsified Asphalt by a Rotational Paddle Viscometer	2a	Revised to include <ul style="list-style-type: none"> • corrections to the tolerances in the figures and • other revisions throughout, in particular in Sections 8 and 9.
T 391-20	Estimating Fatigue Resistance of Asphalt Binders Using the Linear Amplitude Sweep	2b	Adopted AASHTO Provisional standard TP 101 as a full standard method of test; changed to dual units for equivalency with ASTM.

Release: Group 2 (June 2020)

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
T 244-20	Mechanical Testing of Steel Products	4f	Revised Sections 14, 19, 27, 30, 31, and 32; Table 12; and Annex C for equivalency with ASTM A370-18.
T 249-03 (2020)	Helical Lock Seam Corrugated Pipe	4b	Reconfirmed for 2020 publication.
T 253-02 (2020)	Coated Dowel Bars	4f	Reconfirmed for 2020 publication.
T 257-96 (2018)	Instrumental Photometric Measurements of Retroreflective Materials and Retroreflective Devices	4d	Discontinued due to lack of use. Users may refer to ASTM E808.
T 388-20	Detectable Warning Systems	4d	Adopted AASHTO Provisional standard TP 103 as a full standard method of test, T 388; no revisions made.

Release: Group 1 (April 2020)

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
T 22M/T 22-20	Compressive Strength of Cylindrical Concrete Specimens	3c	Revised extensively for equivalency with ASTM C39/C39M-18, including change to dual units.
T 98M/T 98-12 (2020)	Fineness of Portland Cement by the Turbidimeter	3a	Reconfirmed for 2020 publication.
T 105-20	Chemical Analysis of Hydraulic Cement	3a	Revised Sections 2.1, 3.1, 6.3.2, and 21.3.4 for equivalency with ASTM C114-18.
T 121M/T 121-19	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	3b	Editorially revised: Minor revisions to Section 8.
T 131-20	Time of Setting of Hydraulic Cement by Vicat Needle	3a	Revised Section 6.2 for equivalency with ASTM C191-18.
T 137-12 (2020)	Air Content of Hydraulic Cement Mortar	3a	Reconfirmed for 2020 publication.
T 140-20	Compressive Strength of Concrete Using Portions of Beams Broken in Flexure	3c	Revised Section 8.1.3 and Figure 1 for greater clarity.
T 153-20	Fineness of Hydraulic Cement by Air Permeability Apparatus	3a	Revised extensively for equivalency with ASTM C204-18.
T 157-12 (2020)	Air-Entraining Admixtures for Concrete	3b	Reconfirmed for 2020 publication.
T 162-16 (2020)	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	3a	Reconfirmed for 2020 publication.
T 185-15 (2020)	Early Stiffening of Hydraulic Cement (Mortar Method)	3a	Reconfirmed for 2020 publication.
T 186-20	Early Stiffening of Hydraulic Cement (Paste Method)	3a	Revised Sections 6.5 and 6.8 for equivalency with ASTM C451-18.
T 256-01 (2020)	Pavement Deflection Measurements	5a	Reconfirmed for 2020 publication.
T 260-97 (2020)	Sampling and Testing for Chloride Ion in Concrete and Concrete Raw Materials	3c	Reconfirmed for 2020 publication.
T 309-20	Temperature of Freshly Mixed Portland Cement Concrete	3b	Revised to move include information about larger-aggregate concrete from Section 8.4.1 to Section 3.2.1.
T 323-03 (2020)	Determining the Shear Strength at the Interface of Bonded Layers of Portland Cement Concrete	3c	Reconfirmed for 2020 publication.

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
T 325-04 (2020)	Estimating the Strength of Concrete in Transportation Construction by Maturity Tests	3b	Reconfirmed for 2020 publication.
T 332-07 (2020)	Determining Chloride Ions in Concrete and Concrete Materials by Specific Ion Probe	3c	Reconfirmed for 2020 publication.
T 334-08 (2020)	Estimating the Cracking Tendency of Concrete	3c	Reconfirmed for 2020 publication.
T 345-12 (2020)	Passing Ability of Self-Consolidating Concrete (SCC) by J-Ring	3b	Reconfirmed for 2020 publication.
T 360-16 (2020)	Measurement of Tire/Pavement Noise Using the On-Board Sound Intensity (OBSI) Method	5a	Reconfirmed for 2020 publication.
T 365-20	Quantifying Calcium Oxychloride Amounts in Cement Pastes Exposed to Deicing Salts	3c	Revised extensively.
T 389-20	Determining the Influence of Road Surfaces on Vehicle Noise Using the Statistical Isolated Pass-By (SIP) Method	5a	Adopted AASHTO Provisional standard TP 98 as a full standard method of test, T 389.
T 390-20	Determining the Influence of Road Surfaces on Traffic Noise Using the Continuous-Flow Traffic Time-Integrated Method (CTIM)	5a	Adopted AASHTO Provisional standard TP 99 as a full standard method of test, T 390.

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. Unballoted editorial changes do not receive the change bar; however, any standard that is neither revised nor reconfirmed but contains such changes does include an endnote stating that minor editorial revisions have been made.

Release: Group 3 (July 2020)

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
MP 23-15 (2020)	Reclaimed Asphalt Shingles for Use in Asphalt Mixtures	2d	Extended one year for 2020 publication; Year 7 of 8 in Provisional life cycle.
MP 36-18 (2020)	Materials for Asphalt Tack Coat	2a	Reconfirmed for 2020 publication.
MP 37-18 (2020)	Performance-Graded Asphalt Binder for Surface Treatments	2b	Reconfirmed for 2020 publication.
MP 38-18 (2020)	Mix Design of Cold Recycled Mixture with Foamed Asphalt	2d	Reconfirmed for 2020 publication.
MP 46-20	Balanced Mix Design	2d	New Provisional standard specification.
PP 76-13 (2020)	Troubleshooting Asphalt Specimen Volumetric Differences between Superpave Gyratory Compactors (SCGs) Used in the Design and the Field Management of Superpave Mixtures	2d	Extended one year for 2020 publication; Year 8 of 8 in Provisional life cycle.
PP 77-14 (2020)	Materials Selection and Mixture Design of Permeable Friction Courses	2d	Extended one year for 2020 publication; Year 7 of 8 in Provisional life cycle.
PP 78-17 (2020)	Design Considerations When Using Reclaimed Asphalt Shingles (RAS) in Asphalt Mixtures	2d	Extended one year for 2020 publication; Year 7 of 8 in Provisional life cycle.
PP 86-20	Emulsified Asphalt Content of Cold Recycled Mixture Designs	2a	Revised to correct Equation 2 in Section 9.7.
PP 92-19 (2020)	Preparation of Test Specimens Using the Plastic Mold Compaction Device	1b	Reconfirmed for 2020 publication.
PP 93-18 (2020)	Asphalt Tack Coat Design	2a	Reconfirmed for 2020 publication.
PP 94-18 (2020)	Determining Optimum Asphalt Content of Cold Recycled Mixture with Foamed Asphalt	2d	Reconfirmed for 2020 publication.
PP 95-18 (2020)	Preparation of Indirect Tension Performance Test Specimens	2d	Reconfirmed for 2020 publication.

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
PP 96-18 (2020)	Developing Dynamic Modulus Master Curves for Hot Mix Asphalt (HMA) Using the Indirect Tension Testing Method	2d	Reconfirmed for 2020 publication.
PP 102-20	Digital Interchange of Geotechnical Data	1b	New Provisional standard practice.
PP 103-20	Sample Preparation and Polishing of Unbound Aggregates for Dynamic Friction Testing	1c	New Provisional standard practice.
PP 104-20	Sample Preparation and Polishing of Asphalt Mixture Specimens for Dynamic Friction Testing	1c	New Provisional standard practice.
PP 105-20	Balanced Design of Asphalt Mixtures	2d	New Provisional standard practice.
TP 92-14 (2018)	Determining the Cracking Temperature of Asphalt Binder Using the Asphalt Binder Cracking Device (ABCD)	2b	Deleted.
TP 100-12 (2018)	Deep Foundation Elements under Bidirectional Static Axial Compressive Load	1b	Deleted.
TP 101-12 (2018)	Estimating Fatigue Resistance of Asphalt Binders Using the Linear Amplitude Sweep	2b	Adopted as full standard test T 391; no revisions made.
TP 104-13 (2015)	Rapid Axial Compressive Load Testing of Deep Foundation Units	1b	Deleted.
TP 105-20	Determining the Fracture Energy of Asphalt Mixtures Using the Semicircular Bend Geometry (SCB)	2d	Revised machining tolerances from 0.05 mm to 0.1 mm and corrected Equation 7.
TP 107-18 (2020)	Determining the Damage Characteristic Curve of Asphalt Mixtures from Direct Tension Cyclic Fatigue Tests	2d	Extended one year for 2020 publication; Year 7 of 8 in Provisional life cycle.
TP 108-14 (2020)	Abrasion Loss of Asphalt Mixture Specimens	2d	Extended one year for 2020 publication; Year 7 of 8 in Provisional life cycle.
TP 112-19 (2020)	Determining In-Place Density and Moisture Content of Soil and Soil-Aggregate Using Complex Impedance Methodology	1b	Reconfirmed for 2020 publication.

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
TP 116-20	Rutting and Fatigue Resistance of Asphalt Mixtures Using Incremental Repeated Load Permanent Deformation (iRLPD)	2d	Extensively revised; in particular: <ul style="list-style-type: none"> • Included iRLPD fatigue cracking test. • Added new sample size for rutting test. • Volumetric samples may be used for both rutting and fatigue tests. • Added high-temperature PG determination for rutting test. • Design traffic level is now related to high-temperature PG using LTPPBind grade bump. • Updated and expanded references.
TP 120-16 (2020)	Pore Index for Carbonate Coarse Aggregate	1c	Reconfirmed for 2020 publication.
TP 122-16 (2020)	Determination of Performance Grade of Physically Aged Asphalt Binder Using Extended Bending Beam Rheometer (BBR) Method	2b	Reconfirmed for 2020 publication.
TP 123-16 (2020)	Measuring Asphalt Binder Yield Energy and Elastic Recovery Using the Dynamic Shear Rheometer	2b	Reconfirmed for 2020 publication.
TP 124-20	Determining the Fracture Potential of Asphalt Mixtures Using the Illinois Flexibility Index Test (I-FIT)	2d	Revised as follows: <ul style="list-style-type: none"> • Changed title to “Illinois Flexibility Index Test.” • Replaced “FIT” with “I-FIT” throughout. • Added R 30 to Referenced Documents. • Replaced Figure 1 to show notch width change, from 1.5 ± 0.5 mm to ≤ 2.25 mm. • In Note 4, clarified specimen preparation. • Added Note 6 to use R 30 when long-term aging is done on I-FIT specimens. • Added a precision statement and an explanation that no bias information is provided.
TP 125-16 (2020)	Determining the Flexural Creep Stiffness of Asphalt Mixtures Using the Bending Beam Rheometer (BBR)	2d	Reconfirmed for 2020 publication.
TP 131-18 (2020)	Determining Dynamic Modulus of Asphalt Concrete Using the Indirect Tension Test	2d	Reconfirmed for 2020 publication.
TP 139-20	Determining the Specific Gravity and Absorption of Lightweight Aggregate for Internally Cured Concrete Mixtures	1c	New Provisional standard test.

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
TP 140-20	Moisture Sensitivity Using Hydrostatic Pore Pressure to Determine Cohesion and Adhesion Strength of Compacted Asphalt Mixture Specimens	2d	New Provisional standard test.
TP 141-20	Determining the Indirect Tensile Nflex Factor to Assess the Cracking Resistance of Asphalt Mixtures	2d	New Provisional standard test.

Release: Group 2 (June 2020)

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
MP 24-15 (2020)	Waterborne White and Yellow Traffic Paints	4c	Extended one year for 2020 publication; Year 7 of 8 in Provisional life cycle.
MP 26-15 (2020)	Cotton Duck Fabric Bridge Bearings	4e	Reconfirmed for 2020 publication.
MP 35-18 (2020)	Thin Overlay Treatments Using a Binder Resin System and Aggregate for Concrete Surfaces	4c	Reconfirmed for 2020 publication.
MP 42-20	Steel-Reinforced Polyethylene (SRPE) Corrugated Pipe	4b	New Provisional standard specification.
PP 74-19	Determination of Size and Shape of Glass Beads Used in Traffic Markings by Means of Computerized Optical Method	4c	Adopted as full standard practice R 98, with minor revisions as follows: <ul style="list-style-type: none"> In Table 1, last column, add “(minimum)” to heading and “.0” to each value. In Note 9, revised example weights to align with Section 11.1.1.
TP 103-19	Detectable Warning Systems	4d	Adopted as full standard test T 388; no revisions made.

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
TP 106-20	Determination of Heavy Metal Content of Glass Beads Using X-Ray Fluorescence (XRF)	4c	Extensively revised as follows: <ul style="list-style-type: none"> In Section 3, updated to refer to using a handheld XRF and helium flush. In Note 1, deleted mention of laboratory model XRF. In Section 5, revised all apparatus descriptions and added a ring or puck mill. In Section 6.1.1, revised to accept any thin film, including 12-μm thick polypropylene. In Section 7.2, revised sample preparation of loose glass beads in sample cup, including use of thin film. In Section 7.3, added a ring or puck mill as apparatus for pulverizing and blending. In Section 8, revised calibration and standardization to simply calibration and moved standardless or manufacturer-built program option from Section 9. In Section 9, revised procedure regarding type of XRF and recommendation for determining heavy metal concentration. In Section 10, clarified interpretation of results.
TP 111-14 (2020)	Measuring Retroreflectivity of Pavement Marking Materials Using a Mobile Retroreflectivity Unit	4c	Extended one year for 2020 publication; Year 7 of 8 in Provisional life cycle.
TP 130-18 (2020)	Producing Draw Down Panels and Measuring the Coefficient of Retroreflected Luminance (RL) of Pavement Markings in a Laboratory Panel	4c	Reconfirmed for 2020 publication.
TP 138-20	Weight and Diameter for Carbon-Steel for Steel Wire and Welded Wire Reinforcement for Concrete	4f	New Provisional standard method of test.

Release: Group 1 (April 2020)

Designation Number	Title	Technical Subcommittee Number	Balloted Revisions
MP 22-13 (2020)	Fiber-Reinforced Polymer Composite Materials for Highway and Bridge Structures	5b	Extended for 2020 publication; Year 8 of 8 in Provisional life cycle.

MP 27-16 (2020)	Materials for Emulsified Asphalt Chip Seals	5b	Reconfirmed for 2020 publication.
MP 28-17 (2020)	Materials for Microsurfacing	5b	Reconfirmed for 2020 publication. Title editorially revised from “Micro Surfacing” to “Microsurfacing.”
MP 34-18 (2020)	Materials for Sand Seals	5b	Reconfirmed for 2020 publication.
MP 35-18 (2020)	Thin Overlay Treatments Using a Binder Resin System and Aggregate for Concrete Surfaces	5b	Administratively moved from TS 5b to TS 4b and thus from Group 1 to Group 2; no technical changes. Reconfirmed for June 2020 publication.
MP 43-20	Materials for Emulsified Asphalt Scrub Seal	5b	New Provisional standard.
MP 44-20	Materials for Ultrathin Bonded Wearing Course	5b	New Provisional standard.
MP 45-20	Materials for Full-Depth Reclamation Mixtures with Emulsified Asphalt	5b	New Provisional standard.
PP 80-20	Continuous Thermal Profile of Asphalt Mixture Construction	5c	Revised temperature range in Table 1 to read 60 to 250°C (140 to 480°F).
PP 81-18 (2020)	Intelligent Compaction Technology for Embankment and Asphalt Pavement Applications	5c	Extended for 2020 publication; Year 7 of 8 in Provisional life cycle.
PP 82-16 (2020)	Emulsified Asphalt Chip Seal Design	5b	Reconfirmed for 2020 publication.
PP 83-16 (2020)	Microsurfacing Design	5b	Reconfirmed for 2020 publication.
PP 84-20	Developing Performance Engineered Concrete Pavement Mixtures	3c	Revised extensively, including removal of several appendixes: <ul style="list-style-type: none"> • Appendix X1 is addressed in Section 6.4.1.1. • Appendix X2 is addressed in Sections 6.6.1.2 and 6.6.2. • Appendix X3 has become a new Provisional method of test, TP 137. • Appendix X5 is included in Section 6.5.2.1. • Appendix X6 is now a PP 84 Guidance Document, which will be maintained until PP 84 is no longer a Provisional standard or it is no longer needed. • Section 6.5.2.1 references two new Provisional methods of test, TP 135 and TP 136.
PP 87-20	Slurry Seal Design	5b	Revisions to Sections 6.1, 9.1, and 11.2.

PP 89-19 (2020)	Grinding the Ends of Cylindrical Concrete Specimens	3c	Reconfirmed for 2020 publication.
PP 90-18 (2020)	Sand Seal Design	5b	Reconfirmed for 2020 publication.
PP 91-18 (2020)	Emulsified Asphalt Scrub Seal Design	5b	Reconfirmed for 2020 publication.
PP 98-20	Asphalt Surface Dielectric Profiling System Using Ground Penetrating Radar	5c	Revised in several sections to clarify equipment requirements.
PP 101-20	Emulsified Asphalt Content of Full-Depth Mixture Design	5b	New Provisional standard practice.
TP 98-18	Determining the Influence of Road Surfaces on Vehicle Noise Using the Statistical Isolated Pass-By (SIP) Method	5a	Adopted as full standard test T 389; no revisions made.
TP 99-18	Determining the Influence of Road Surfaces on Traffic Noise Using the Continuous-Flow Traffic Time-Integrated Method (CTIM)	5a	Adopted as full standard test T 390; no revisions made.
TP 129-18 (2020)	Vibrating Kelly Ball (VKelly) Penetration in Fresh Portland Cement Concrete	3c	Reconfirmed for 2020 publication.
TP 135-20	Total Pore Volume in Hardened Concrete Using Vacuum Saturation	3c	New Provisional standard method of test.
TP 136-20	Degree of Saturation of Hydraulic-Cement Concrete	3c	New Provisional standard method of test.
TP 137-20	Box Test in Slip Form Paving of Fresh Portland Cement Concrete	3b	New Provisional standard method of test.