AASHTO ACCREDITED

Certificate of Accreditation

American Association of State Highway and Transportation Officials

AASHTO

Mappa Inc.

in

North Pole, Alaska, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).

Jim Tymon,
AASHTO Executive Director

Matt Linneman,
AASHTO COMP Chair

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Scope of AASHTO Accreditation for:

Mappa Inc.

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Quality Management System

Standard:		Accredited Since:
R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	11/30/2005
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	02/06/2012
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	02/06/2012
C1093 (Masonry)	Accreditation of Testing Agencies for Unit Masonry	12/05/2019
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	02/06/2012
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	02/06/2012
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	02/06/2012
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/06/2012
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/06/2012
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/06/2012
E329 (Masonry)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/21/2023
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/06/2012

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Asphalt Mixture

Standard:		Accredited Since:
R30	Mixture Conditioning of Hot Mix Asphalt (HMA)	03/23/2018
R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	11/30/2005
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	11/30/2005
R97	Sampling Bituminous Paving Mixtures	03/16/2022
T30	Mechanical Analysis of Extracted Aggregate	11/30/2005
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	11/30/2005
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	11/30/2005
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	11/30/2005
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	11/30/2005
T283	Resistance of Compacted Mixtures to Moisture Induced Damage	03/27/2012
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	11/30/2005
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	11/30/2005
T355	Density of Bituminous Concrete In Place by Nuclear Methods	03/23/2018
D979	Sampling Bituminous Paving Mixtures	03/23/2018
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	11/30/2005
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	11/30/2005
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	03/27/2012
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	11/30/2005
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	01/10/2020
D3665	Random Sampling of Construction Materials	01/10/2020
D4867	Resistance of Compacted Mixtures to Moisture Induced Damage	03/27/2012
D5444	Mechanical Analysis of Extracted Aggregate	11/30/2005
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	11/30/2005

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Asphalt Mixture (Continued)

Standard:	Accredited Since:
D6926 Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	11/30/2005
D6927 Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	11/30/2005

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Soil

Standard:		Accredited Since:
R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	11/30/2005
R74	Wet Preparation of Disturbed Soil Samples for Test	03/23/2018
T88	Particle Size Analysis of Soils by Hydrometer	**Suspended**
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	11/30/2005
T90	Plastic Limit of Soils (Atterberg Limits)	11/30/2005
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	11/30/2005
T100	Specific Gravity of Soils	01/10/2020
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	11/30/2005
T191	Density of Soil In-Place by the Sand Cone Method	11/30/2005
T265	Laboratory Determination of Moisture Content of Soils	11/30/2005
T267	Determination of Organic Content in Soils by Loss on Ignition	02/21/2025
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	11/30/2005
T311	Grain-Size Analysis of Granular Soil Materials	03/23/2018
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	11/30/2005
D422	Particle Size Analysis of Soils by Hydrometer	**Suspended**
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	11/30/2005
D854	Specific Gravity of Soils	01/10/2020
D1140	Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	11/30/2005
D1556	Density of Soil In-Place by the Sand Cone Method	11/30/2005
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	11/30/2005
D2216	Laboratory Determination of Moisture Content of Soils	11/30/2005
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	11/30/2005
D2488	Description and Identification of Soils (Visual-Manual Procedure)	11/30/2005

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Soil (Continued)

Standard:	Accredited Since:
D2974 Determination of Organic Content in Soils by Loss on Ignition	02/21/2025
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	11/30/2005
D4318 Plastic Limit of Soils (Atterberg Limits)	11/30/2005
D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	01/10/2020
D4718 Oversize Particle Correction	01/17/2014
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	02/21/2020
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	11/30/2005
D7928 Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	03/23/2018

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Aggregate

Standard:		Accredited Since:
R76	Reducing Samples of Aggregate to Testing Size	11/30/2005
R90	Sampling Aggregate	01/17/2014
T11	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	11/30/2005
T19	Bulk Density (“Unit Weight”) and Voids in Aggregate	11/30/2005
T21	Organic Impurities in Fine Aggregates for Concrete	11/30/2005
T27	Sieve Analysis of Fine and Coarse Aggregates	11/30/2005
T37	Sieve Analysis of Mineral Filler for Road and Paving Materials	11/30/2005
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	11/30/2005
T85	Specific Gravity and Absorption of Coarse Aggregate	11/30/2005
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	11/30/2005
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	11/30/2005
T112	Clay Lumps and Friable Particles in Aggregate	11/30/2005
T113	Lightweight Pieces in Aggregate	03/16/2022
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	11/30/2005
T210	Aggregate Durability Index	03/27/2012
T255	Total Moisture Content of Aggregate by Drying	11/30/2005
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	11/30/2005
T327	Resistance to Abrasion by Micro-Deval (Coarse Aggregate)	09/29/2023
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	01/17/2014
C29	Bulk Density (“Unit Weight”) and Voids in Aggregate	11/30/2005
C40	Organic Impurities in Fine Aggregates for Concrete	11/30/2005
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	11/30/2005
C117	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	11/30/2005

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Aggregate (Continued)

Standard:		Accredited Since:
C123	Lightweight Pieces in Aggregate	03/16/2022
C127	Specific Gravity and Absorption of Coarse Aggregate	11/30/2005
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	11/30/2005
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	11/30/2005
C136	Sieve Analysis of Fine and Coarse Aggregates	11/30/2005
C142	Clay Lumps and Friable Particles in Aggregate	11/30/2005
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	11/30/2005
C566	Total Moisture Content of Aggregate by Drying	11/30/2005
C702	Reducing Samples of Aggregate to Testing Size	11/30/2005
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	11/30/2005
D75	Sampling Aggregate	01/17/2014
D546	Sieve Analysis of Mineral Filler for Road and Paving Materials	11/30/2005
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	11/30/2005
D3744	Aggregate Durability Index	03/27/2012
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	11/30/2005
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	11/30/2005
D6928	Resistance to Abrasion by Micro-Deval (Coarse Aggregate)	09/29/2023

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Concrete

Standard:		Accredited Since:
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	02/25/2008
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	02/25/2008
C39	Compressive Strength of Cylindrical Concrete Specimens	02/25/2008
C42 (Testing Drilled Cores of Concrete)	Testing Drilled Cores of Concrete	12/05/2019
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	02/25/2008
C138	Density (Unit Weight), Yield, and Air Content of Concrete	02/25/2008
C143	Slump of Hydraulic Cement Concrete	02/25/2008
C172	Sampling Freshly Mixed Concrete	02/25/2008
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	08/21/2015
C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores	12/05/2019
C192	Making and Curing Concrete Test Specimens in the Laboratory	02/25/2008
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	02/25/2008
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	01/27/2023
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	01/22/2013
C617 (6000 psi and below)	Capping Cylindrical Concrete Specimens	01/21/2026
C939	Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)	04/23/2024
C942	Compressive Strength of Grouts for Preplaced-Aggregate Concrete in the Laboratory	04/23/2024
C1064	Temperature of Freshly Mixed Portland Cement Concrete	02/25/2008
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	01/22/2013
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	08/21/2015
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	01/09/2018
C1611	Slump Flow of Self-Consolidating Concrete	12/05/2019

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Masonry

Standard:		Accredited Since:
C140 (Full-Size Concrete Masonry Units)	Sampling and Testing Concrete Masonry Units and Related Units	01/21/2026
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	12/30/2013
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	12/05/2019
C780 (Annex 6 - Cubes)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cubes	02/13/2018
C780 (Annex 6 - Cylinders)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cylinders	02/13/2018
C1019	Sampling and Testing Grout	02/24/2010
C1314 (Prisms Constructed of Full-Size Concrete Masonry Units)	Compressive Strength of Masonry Prisms	01/21/2026
C1552	Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing	12/05/2019