



# CERTIFICATE OF ACCREDITATION



## Pettigrew & Associates, a Professional Association

in

### Hobbs, New Mexico, 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](https://aashtoresource.org)).

A handwritten signature in black ink, appearing to read 'Jim Tymon', written over a horizontal line.

Jim Tymon,  
AASHTO Executive Director

A handwritten signature in black ink, appearing to read 'Matt Linneman', written over a horizontal line.

Matt Linneman,  
AASHTO COMP Chair

This certificate was generated on 10/16/2024 at 4:30 AM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashtoresource.org/aap/accreditation-directory](https://aashtoresource.org/aap/accreditation-directory)



# SCOPE OF AASHTO ACCREDITATION FOR:

Pettigrew & Associates, a Professional Association  
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## Quality Management System

### Standard:

### Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	07/01/2001
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	05/05/2015
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	11/18/2011
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	05/05/2015
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	05/05/2015
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	05/05/2015
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/05/2015
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/05/2015
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	10/07/2015
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	05/05/2015



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## Asphalt Mixture

### Standard:

### Accredited Since:

R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	07/01/2001
R97	Sampling Bituminous Paving Mixtures	06/21/2022
T30	Mechanical Analysis of Extracted Aggregate	07/01/2001
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	07/01/2001
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	07/01/2001
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	10/13/2016
T275	Bulk Specific Gravity of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens	03/27/2019
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	07/01/2001
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	07/01/2001
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	07/01/2001
T355	Density of Bituminous Concrete In Place by Nuclear Methods	03/27/2019
D979	Sampling Bituminous Paving Mixtures	06/21/2022
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	07/01/2001
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	07/02/2014
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	06/21/2022
D3665	Random Sampling of Construction Materials	06/21/2022
D5444	Mechanical Analysis of Extracted Aggregate	07/01/2001
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	07/01/2001
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	07/01/2001



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## Soil

### Standard:

### Accredited Since:

R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	09/01/2001
R74	Wet Preparation of Disturbed Soil Samples for Test	09/01/2001
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	09/01/2001
T90	Plastic Limit of Soils (Atterberg Limits)	09/01/2001
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	09/01/2001
T100	Specific Gravity of Soils	10/13/2016
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	09/01/2001
T191	Density of Soil In-Place by the Sand Cone Method	10/13/2016
T217	Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	10/13/2016
T265	Laboratory Determination of Moisture Content of Soils	09/01/2001
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	09/01/2001
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	09/01/2001
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	09/01/2001
D854	Specific Gravity of Soils	10/13/2016
D1140	Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve	09/01/2001
D1556	Density of Soil In-Place by the Sand Cone Method	10/13/2016
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	09/01/2001
D2216	Laboratory Determination of Moisture Content of Soils	09/01/2001
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	09/01/2001
D2488	Description and Identification of Soils (Visual-Manual Procedure)	09/01/2001
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	09/01/2001
D4318	Plastic Limit of Soils (Atterberg Limits)	09/01/2001
D4643	Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	10/13/2016



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## Soil (Continued)

<b>Standard:</b>	<b>Accredited Since:</b>
D4718 Oversize Particle Correction	10/13/2016
D4943 Shrinkage Factors of Soil by Wax Method	06/21/2022
D4944 Determination of Moisture in Soils by Means of a Calcium Carbide Gas Pressure Moisture Tester	10/13/2016
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	10/13/2016
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	09/01/2001
D6951 Dynamic Cone Penetrometer In Shallow Pavement Applications	06/21/2022



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## Aggregate

Standard:	Accredited Since:
R76 Reducing Samples of Aggregate to Testing Size	09/01/2001
R90 Sampling Aggregate	07/02/2014
T11 Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	09/01/2001
T19 Bulk Density ("Unit Weight") and Voids in Aggregate	09/01/2001
T21 Organic Impurities in Fine Aggregates for Concrete	09/01/2001
T27 Sieve Analysis of Fine and Coarse Aggregates	09/01/2001
T84 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	09/01/2001
T85 Specific Gravity and Absorption of Coarse Aggregate	09/01/2001
T96 Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/01/2001
T103 Soundness of Aggregates by Freezing and Thawing	06/21/2022
T104 Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	09/01/2001
T176 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	09/01/2001
T255 Total Moisture Content of Aggregate by Drying	09/01/2001
T304 Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	09/01/2001
T335 Determining the Percentage of Fractured Particles in Coarse Aggregate	07/02/2014
C29 Bulk Density ("Unit Weight") and Voids in Aggregate	09/01/2001
C40 Organic Impurities in Fine Aggregates for Concrete	09/01/2001
C88 Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	09/01/2001
C117 Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	09/01/2001
C127 Specific Gravity and Absorption of Coarse Aggregate	09/01/2001
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	09/01/2001
C131 Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/01/2001
C136 Sieve Analysis of Fine and Coarse Aggregates	09/01/2001



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## Aggregate (Continued)

<b>Standard:</b>	<b>Accredited Since:</b>
C535 Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	09/01/2001
C566 Total Moisture Content of Aggregate by Drying	09/01/2001
C702 Reducing Samples of Aggregate to Testing Size	09/01/2001
C1252 Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	09/01/2001
D75 Sampling Aggregate	07/02/2014
D2419 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	09/01/2001
D4791 Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	09/01/2001
D5821 Determining the Percentage of Fractured Particles in Coarse Aggregate	09/01/2001



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## Concrete

Standard:		Accredited Since:
M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/20/2014
R39	Making and Curing Concrete Test Specimens in the Laboratory	06/20/2014
R60	Sampling Freshly Mixed Concrete	10/01/2001
R100 (Beams)	Making and Curing Concrete Beam Test Specimens in the Field	04/26/2021
R100 (Cylinders)	Making and Curing Concrete Cylinder Test Specimens in the Field	04/26/2021
T22	Compressive Strength of Cylindrical Concrete Specimens	10/01/2001
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	06/20/2014
T119	Slump of Hydraulic Cement Concrete	10/01/2001
T121	Density (Unit Weight), Yield, and Air Content of Concrete	10/01/2001
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	10/01/2001
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	10/01/2001
T231 (10000 psi and below)	Capping Cylindrical Concrete Specimens	04/26/2021
T309	Temperature of Freshly Mixed Portland Cement Concrete	06/20/2014
C31 (Beams)	Making and Curing Concrete Beam Test Specimens in the Field	04/26/2021
C31 (Cylinders)	Making and Curing Concrete Cylinder Test Specimens in the Field	04/26/2021
C39	Compressive Strength of Cylindrical Concrete Specimens	10/01/2001
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	10/01/2001
C138	Density (Unit Weight), Yield, and Air Content of Concrete	10/01/2001
C143	Slump of Hydraulic Cement Concrete	10/01/2001
C172	Sampling Freshly Mixed Concrete	10/01/2001
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	10/01/2001
C192	Making and Curing Concrete Test Specimens in the Laboratory	10/01/2001
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	10/01/2001





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**Concrete (Continued)**

<b>Standard:</b>	<b>Accredited Since:</b>
C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/20/2014
C617 (10000 psi and below) Capping Cylindrical Concrete Specimens	04/26/2021
C1064 Temperature of Freshly Mixed Portland Cement Concrete	10/01/2001
C1231 (7000 psi and below) Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	10/01/2001
C1542 Measuring Length of Concrete Cores	10/07/2015



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## Masonry

**Standard:**

**Accredited Since:**

M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/20/2014
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	06/20/2014
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	04/26/2021
C780 (Annex 6 - Cubes)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cubes	10/07/2010
C1019	Sampling and Testing Grout	10/07/2010