SPECIAL PROVISIONS MODIFYING

SECTION 906: MINIMUM TESTING REQUIREMENT'S (MTR'S)

The 2019 Edition of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction shall apply in addition to the following:

Delete **Section 906: MINIMUM TESTING REQUIREMENT'S (MTR'S)** in its entirety and replace with the following:

906.1 DESCRIPTION

906.1.1 General

This work consists of Minimum Testing Requirement's (MTR's) for the T/LPA and Contractor which includes construction sampling, tests, and testing frequencies of materials incorporated into the Work for acceptance and quality control.

906.1.2 T/LPA Minimum Testing Requirements

	Table 906.1.2:1 - EARTHWORK								
lia m	Took Dogwined	Sampling/	Agency	Contractor	Independent Assurance*				
Item	Test Required	Testing Location	Testing	Testing	Project Approach				
Embankment,	In-Place Density and Moisture	Roadway	1 per 2,000 C.Y.		1 per 50,000 C.Y. or minimum 1 per project				
Unclassified Excavation (Section 203)	Moisture/Density Tests (Proctor), Soils Classification	Stockpile / Roadway	1 per material type per 20,000 C.Y.	N/A	1 per 50,000 C.Y. or minimum 1 per project if less than 50,000 C.Y.				
Borrow (Section 203.2.1.3)	AASHTO T-190 R-Value, Soils Classification	Borrow Pit	N/A	1 per 10,000 C.Y.	N/A				

SECTION 906: T/LPA MINIMUM TESTING REQUIREMENTS (MTR'S)

^{*} Project Quantities less than the minimum Agency Testing requirement do not require IA Testing if Agency Testing is certified by the Construction Engineer of Record.

Table 906.1.2:1 - EARTHWORK							
Item	Took Dogwined	Sampling/	Agency	Contractor	Independent Assurance*		
item	Test Required	Testing Location	Testing	Testing	Project Approach		
Road Bed	In-Place Density and Moisture		1 per 2,500 S.Y.				
Embankment (Section 203.3.5.1)	Moisture/ Density Tests (Proctor), Soils Classification	Roadway	1 per material type	N/A	Minimum 1 per project		
	In-Place Density and Moisture	Structure	See Table A				
Foundations / Backfill for Culverts and Minor Structures	Moisture/ Density Tests (Proctor), Soils Classification	Stockpile	Stockpile	1 per material type	N/A	Minimum 1 per project	
(Section 206)	Gradation			1 per 500 C.Y.			
	Electrochemical, where specified.		N/A	1 per material type	N/A		
	In-Place Density and Moisture		1 per 3,000 S.Y.		1 per 30,000		
Subgrade Preparation (Section 207)	Moisture/ Density Tests (Proctor), Soils Classification	Roadway	1 per material type	N/A	S.Y. or minimum 1 per project if less than 30,000 S.Y.		
Linear Grading and Blading and Re-shaping (Sections 208, 209)	In-Place Density and Moisture		1 per half mile				
	Moisture/ Density Tests (Proctor), Soils Classification	Roadway	1 per material type	N/A	1 per 5 miles		

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Table 906.1.2:1 - EARTHWORK								
ltem	Test Required	Sampling/ Testing Location	Agency Testing	Contractor Testing	Independent Assurance* Project			
	In Diago Donoity				Approach			
	In-Place Density and Moisture	Structure	See Table A		1 per 5,000 C.Y.			
Backfill for Major Structures (Section 210)	Moisture/ Density Tests (Proctor), Soils Classification	Stockpile	1 per material type	N/A	Minimum 1 per project			
	Gradation							
	In-Place Density and Moisture		1 per 3,000 S.Y.		1 per 30,000			
	Gradation		0.11		S.Y. or minimum 1 per project if less than 30,000 S.Y.			
Treated Subgrade (Section 306)	Moisture/ Density Tests (Proctor), Soils Classification	Roadway	1 per material type	N/A				
	AASHTO T-290 Sulfate Testing	Borrow Pit	N/A	1 per 10,000 C.Y.	N/A			
	In-Place Density and Moisture	Structure	See Table A	N/A				
Backfill for Mechanical Stabilized Earth	Moisture/ Density Tests (Proctor)		1 per material type		Minimum 1 per project			
(MSE) Retaining	Gradation, PI	Stockpile	1 per 500 C.Y.	1 per material				
Structures (Section 506)	Soils Classification Direct Shear, Electro Chemical	σιοσκριίο	N/A	type	N/A			
Foundations for Slope and	In-Place Density and Moisture	Structure	1 per structure					
Erosion Protection Structures (Section 602)	Moisture / Density Tests (Proctor), Soils Classification	Foundation material location	1 per material type	N/A	N/A			

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Table 906.1.2:1 - EARTHWORK								
Item	Test Required	Sampling/ Testing Location	Agency Testing	Contractor Testing	Independent Assurance* Project Approach			
Backfill for Soil	In-Place Density and Moisture	Roadway	1 per lift					
and Drainage Geotextiles (Section 604)	Moisture/ Density Tests (Proctor), Soils Classification	Stockpile	1 per material type	N/A	N/A			
	In-Place Density and Moisture	Roadway	1 per 1,000 L.F.					
Backfill for Drains (Section 605.3.4)	Moisture/ Density Tests (Proctor), Soils Classification	Stockpile	1 per material type	N/A	N/A			
Foundations for Sidewalks, Drive	In-Place Density and Moisture	Roadway	1 per 150 S.Y.		N/A			
Pads and Concrete Median Paving (Section 608)	Moisture/ Density Tests (Proctor), Soils Classification	Foundation material location	1 per material type	N/A				
Bed Course Material for Sidewalks, Drive	In-Place Density and Moisture	Roadway	1 per 150 S.Y.		N/A			
Pads and Concrete Median Paving (Section 608)	Moisture/ Density Tests (Proctor), Soils Classification	Stockpile	1 per material type	N/A				
Foundations for	In-Place Density and Moisture	Roadway	1 per 500 L.F. or as site locations require	NI/A	NI/A			
Curb and Gutter (Section 609)	Moisture/ Density Tests (Proctor), Soils Classification	Foundation material location	1 per material type	N/A	N/A			

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	Table 906.1.2:1 - EARTHWORK								
Item	Test Required	Sampling/ Testing Location	Agency Testing	Contractor Testing	Independent Assurance* Project Approach				
Bed Course Material for Curb	In-Place Density and Moisture	Roadway	1 per 500 L.F. or as site locations require	N//A					
and Gutter (Section 609)	Moisture/ Density Tests (Proctor), Soils Classification	Stockpile	1 per material type	N/A	N/A				
Foundations /	In-Place Density and Moisture	Structure	See Table A		N/A				
Backfill for Cattle Guards (Section 610)	Moisture/ Density Tests (Proctor), Soils Classification	Stockpile	1 per material type	N/A					
	In-Place Density and Moisture	Structure	1 per structure	N/A	N/A				
Bedding Material for Cattle Guards (Section 610)	Moisture/ Density Tests (Proctor), Soils Classification	Stockpile	1 per material type						
Foundations /	In-Place Density and Moisture	Structure	See Table A						
Backfill for Drop Inlets and Junction Boxes (Section 623)	Moisture/ Density Tests (Proctor), Soils Classification	Foundation material location	1 per material type	N/A	N/A				
Foundations /	In-Place Density and Moisture	Structure	See Table A						
Backfill for Utilities (Section 660)	Moisture/ Density Tests (Proctor), Soils Classification	Foundation material location	1 per material type	N/A	N/A				

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Table 906.1.2:2 - TABLE A

STRUCTURE DEFINITIONS, FOUNDATION AND BACKFILL REQUIREMENTS FOR ACCEPTANCE

1. Transverse or skewed culvert or concrete box culvert (CBC), not connected to an underground drainage network, including end sections, wing walls if backfilled simultaneously, structural plate pipe, storm drains, and sewer lines (Note 1):

Foundation: One density per 100 linear feet. For pipe in a battery, up to 4 pipes may be considered as a unit for purposes of foundation density.

Backfill Density: 1 per 2 foot of fill per side* and to top of trench per 100 linear feet (Note 2).

* For a battery of pipes, the number of backfill densities required will be as follows:

One-Half (1/2) of the required densities for up to 4 pipes.

One-Third (1/3) of the required densities for more than 4 pipes.

2. End section or CBC wing wall if backfilled separately from culvert pipe or CBC (Note 2):

Backfill Density: 1 per 2 foot of fill per side.

3. Drop inlet (D.I.), junction box, cattle guard, light and signal base, manhole, etc.:

Foundation: 1 per structure.

Backfill Density: 1 per 2 foot of fill.

4. Underground drainage network including interruptions such as D.I., manhole, junction box, plug, service connection, slotted drain, etc., if backfilled simultaneously:

Foundation:, One per 100 linear feet.

Backfill Density: 1 per 2 foot of fill per side and to top of trench per 100 linear feet (Note 2).

5. Retaining wall / MSE wall:

Foundation: One foundations density per 100 linear feet.

Backfill Density: 1 per 2 foot of fill per 100 linear feet.

6. Bridge abutment back wall, wing wall or approach slab:

Backfill Density: 1 per 6 inches of fill.

7. Pier footing:

Foundation: 1 per footing.

Backfill Density: 1 per 6 inches of fill.

8. Waterlines, electrical conduit, telephone cable or gas line, etc., within roadway prism (traveled area and shoulder) *if trench width sufficient for density testing:*

Foundation: One per 100 linear feet.

Backfill Density: 1 per 2 foot of fill per 100 linear feet.

9. Waterline, electrical conduit, telephone cable or gas line, ect. outside the roadway prism (traveled area and shoulders) *if trench width sufficient for density testing:*

Foundation: 1 per 300 linear feet.

Backfill Density: 1 per 2 foot of fill per 300 linear foot.

Notes:

- 1. All extensions will be considered increments and as such structure units.
- 2. Determination of Backfill Depths Governing Minimum Testing Criteria Requirements:
 - a. When backfill construction is performed in trench conditions, the depth of compacted backfill to be tested shall be measured from the foundation to the top of the trench.
 - b. When backfill construction is performed in non-trench conditions, the depth of compacted backfill to be tested shall be determined through the use of the appropriate NMDOT standard drawings.
 - c. When one type of material is used for multiple items, only one proctor will be required per material type.

SECTION 906: T/LPA MINIMUM TESTING REQUIREMENTS (MTR'S)

	Table 906.1.2:3 - BASE COURSE								
	Test Required Te	Sampling/	Agency	Contractor	Independent Assurance*				
Item		Testing Location	Testing	Testing	Project Approach				
	In-Place Density and Moisture	Roadway after compaction	1 per 2,000 tons						
	Moisture/Density Tests (Proctor)	Stockpile	1 per material type		1 per 20,000 tons				
Base Course (Section 303)	Gradations	Processed material from windrow or	1 per project	N/A	with Agency or minimum 1 per project				
	FF, LL, PI	stockpile	1 per 4,000 tons						
	Thickness	Roadway after compaction	1 per 1,000 tons						

	Table 906.1.2:4 - AGGREGATES								
		Sampling/	Agency	Contractor	Independent Assurance*				
Item	Test Required	Location Testing Testing Testing	Testing	Project Approach					
Processing,	In-Place Density		1 per 1,000 S.Y.						
Placing and Compacting Existing Pavement (Section 302)	Gradation (Dry field sieve verification per TTCP)	Roadway	1 per 5,000 S.Y.	N/A	1 per 50,000 S.Y. or minimum 1 per project				
Rip Rap Material (Section 602)	LA Wear & Soundness (AASHTO T-96 AASHTO T-104)	Source	N/A	1 per year per pit	N/A				

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Table 906.1.2:5 - MINOR PAVING HOT MIX ASPHALT (HMA)/Warm Mix Asphalt (WMA)							
ltom	Took Dominad	Sampling/	Agency	Contractor	Independent Assurance*		
Item	Test Required	Testing Location	Testing	Testing	Project Approach		
	Asphalt Content (Strap Method)	Asphalt Plant	N/A	1 per day	N/A		
HMA/WMA	Air Voids		3 per lot	N/A	Minimum of 1 per project over 5,000 tons		
Minor Paving (Section 416)	Roadway Compaction Nuclear Densometer *	Roadway	10 per lot	Contractor to provide three (3) cores for Correlation of Densometer	N/A		
	Thickness		1 per lot	Obtain Cores			
Open Graded Friction Course (Section 403)	Gradation, FF	Cold Feed	1 per 3,000 tons with a minimum of 1 per day	1 per 250 tons 1st 2,000 tons then 1 per 500 tons after 2,000 tons	Minimum 1 per project		
		Crushing	N/A	1 per 1,000 tons			
	Performance Graded Asphalt Binder	From storage tank or Delivery Truck	1 sample consisting of three separate 1-quart increments per Project	Samples will be obtained by contractor personnel and observed by Department personnel	N/A		

	Table 906.1.2:6 - Asphalt Recycling							
		Sampling/	Agency	Contractor	Independent Assurance*			
Item	Test Required	ed lesting	Testing	Project Approach				
Hot In-Place Recycling (Remixing Method) (Section 412)	Roadway Density (Nuclear Densometer)	Roadway	1 per 3,000 S.Y.	N/A	N/A			
Single-Machine Hot In-Place Surface	Roadway Density (Nuclear Densometer)	Roadway	1 per 3,000 S.Y.	N/A	N/A			
Repaving (Section 413)	HMA/WMA	Windrow / Hopper	See Section 416 Minor Paving					

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Table 906.1.2:6 - Asphalt Recycling								
Item	Test Required	Sampling/	Agency	Contractor	Independent Assurance*			
		Testing Location	Testing	Testing	Project Approach			
Pavement Surface	Roadway Density	Roadway	1 per 3,000 S.Y.					
Restoration (In- Situ) (Section 415)	Bulk Specific Gravity		2 sets per day	N/A	N/A			
Performance Graded Asphalt Binder (Section 402)	If required in the Contract Documents	N/A	N/A	N/A	N/A			

	Table 906.1.2:7 - Asphalt Mineral Admixture Materials							
	Test Required	Sampling/	Agency	Contractor	Independent Assurance*			
Item		Testing Location	Testing	Testing	Project Approach			
Asphalt Emulsion (Section 402)	The manufacture's certificate of compliance will suffice for testing credits	N/A	N/A	N/A	N/A			
Mineral Admixtures (Section 402)	The manufacture's certificate of compliance will suffice for testing credits	N/A	N/A	N/A	N/A			

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Table 906.1.2:8 - MAJOR PAVING (Sections 423/424 / 900's) HOT MIX ASPHALT (HMA), WARM MIX ASPHALT (WMA)							
Item	Test	Sampling/ Testing	Agency	Contractor	Independent Assurance*		
itein	Required	Location	Testing	Testing	Project Approach		
HMA/WMA Superpave	Asphalt Content, Gradation, Gmm, Gmb, Air Voids,VMA, VFA, DP Roadway Compaction (Cores)	Roadway	1 per 5,000 tons. Gmm will be determined at least once per day.	1 per 2,000 tons. Gmm will be determined at least twice per day.	Minimum 1 per project		
(Section 423/424)	Roadway Compaction (nuclear/non- destructive)		N/A	As needed	N/A		
	FF, , SE, F&E, FAA, Moisture	Cold Feed before addition of Mineral Admixtures					
Performance Graded Asphalt Binder (Section 402)	If required in the Contract Documents	N/A	N/a	N/A	N/A		
Asphalt Emulsion (Section 402)	The manufacture's certificate of compliance will suffice for testing credits	N/A	N/A	N/A	N/A		
Mineral Admixtures (Section 402)	The manufacture's certificate of compliance will suffice for testing credits	N/A	N/A	N/A	N/A		

	Table 906.1	.2:9 - Non QLA P	ORTLAND CEME	NT CONCRETE	
	Minor Structure	es, Curb & Gutter,	Side Walks, etc	. (509, 510, 511, 5	21)
ltom	Item Test Sampling/ Required Testing Location		Agency	Contractor	Independent Assurance*
item			Testing	Testing	Project Approach
Fine Aggregates	Gradation	Stockpile	1 per 2 weeks during concrete production	1 per week during concrete production	1 per project

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		.2:9 - Non QLA P		ENT CONCRETE . (509, 510, 511, 5	21)	
Item	Test Sampling/		Agency	Contractor	Independent Assurance*	
	Required	Location	Testing	Testing	Project Approach	
Coarse	Gradation	01 1 1	1 per 2 weeks during concrete production	1 per week during concrete production	1 per project	
Aggregates	FF, F&E	Stockpile	N/A	Minimum 1 per project per course aggregate type	N/A	
Non-Shrink Mortar Aggregate	Manufacture's certificate of compliance will suffice for testing credits	N/A	N/A	NA	N/A	
Project Acceptance Test	Compressive Strength Cylinders and Plastic Properties (Slump, Unit Weight, Calculated Air Content, Temperature)	See Table B	Each mix design per day of placement. Test the first three loads, with one randomly sampled for one set of cylinders. Sample for testing and cylinders, one random load from each subsequent 6 load sublot.	N/A	1 per project	

Table 906.1.2:10 - Non QLA PORTLAND CEMENT CONCRETE					
N	Major Structures	s, Substructures, [Orilled Shafts (50	02, 509, 510, 511,	521)
Itam	Test Sampling/ Agency Contractor Assura				
Item	Required	Testing Location	Testing	Testing	Project Approach
Fine Aggregates	Gradation	Stockpile	1 per 2 weeks during concrete production	1 per week during concrete production	1 per project

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	Table 906.1.2:10 - Non QLA PORTLAND CEMENT CONCRETE				
N	lajor Structures	s, Substructures, I	Drilled Shafts (50	<u>)</u> 2, 509, 510, 511,	521)
Item	Test	Sampling/ Testing	Agency	Contractor	Independent Assurance*
	Required	Location	Testing	Testing	Project Approach
Coarse	Gradation	والمعاربة الع	1 per 2 weeks during concrete production	1 per week during concrete production	1 per project
Aggregates	Stocknile		N/A	Minimum 1 per project per coarse aggregate type	N/A
Non-Shrink Grout Aggregate	Manufacture's certificate of compliance will suffice for testing credits	N/A	N/A	N/A	N/A
Project Acceptance Test	Compressive Strength Cylinders, and Plastic Properties (Slump, Unit Weight, Calculated Air Content, Temperature)	See Table B	Each mix design per day of placement. Test the first three loads, with one randomly sampled for one set of cylinders. Sample for testing and cylinders, one random load from each subsequent 6 load sublot.	Each mix design per day of placement. Test the first three loads and one load from each 6 load sublot for plastic properties.	1 per project

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Table	906.1.2:11 - Nor	ı QLA PORTL	AND CEMENT	CONCRETE PA	VEMENT (509,	451)
Item	Test Required	Lastina	Agency	Contractor	Independent Assurance*	State Materials
	Required	Location	Testing	Testing	Project Approach	Bureau
Fine	Gradation		1 per 2 weeks during concrete placement	1 per week during concrete production	1 per project	NI/A
Aggregates	F.F., F&E	Stockpile	N/A	Minimum 1 per project per coarse aggregate type	N/A	- N/A
Coarse	Gradation		1 per 2 weeks during concrete placement	1 per week during concrete production	1 per project	N/A
Aggregates F.F., F&E	Stockpile	N/A	Minimum 1 per project per coarse aggregate type	N/A	IV/A	
Project Acceptance Test	Compressive Strength Cylinders, and Plastic Properties (Slump, Unit Weight, Air Content, Temperature)	See Table B	Each mix design per day of placement. Test the first three loads, with one randomly sampled for one set of cylinders. Sample for testing and cylinders, one random load from each subsequent 6 load sublot.	Each mix design per day of placement. Test the first three loads and one load from each 6 load sublot for plastic properties.	1 per 10,000 S.Y.	N/A
	Thickness	Roadway	1 per 300 cy	N/A	N/A	
Environmental Conditions	Evaporation Rate	Placement Site	N/A	Evaporation Potential determined at intervals not greater than 5 minutes until final curing system in place	N/A	N/A

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	Table 906.1.2:12 - Non QLA Superstructure Concrete (509, 510, 512)					
H	Test	Sampling/	Agency	Contractor	Independent Assurance*	State
Item	Required	Testing Location	Testing	Testing	Project Approach	Materials Bureau
Fine	Gradation	Stockpile	1 per 2 weeks during concrete placement	1 per week during concrete production	1 per project	N/A
Aggregates	F.F., F&E	Зіоскріїе	N/A	Minimum 1 per project per coarse aggregate type	N/A	IV/A
Coarse	Gradation	Stockpile	1 per 2 weeks during concrete placement	1 per week during concrete production	1 per project	N/A
Aggregates F.F., F&E	<u> </u>	N/A	Minimum 1 per project per coarse aggregate type	N/A	IV/A	
Project Acceptance Test	Compressive Strength Cylinders, and Plastic Properties (Slump, Unit Weight, Air Content, Temperature)	See Table B	Each mix design per day of placement. Test the first three loads, with one randomly sampled for one set of cylinders. Sample for testing and cylinders, one random load from each subsequent 3 load sublot.	Each mix design per day of placement. Test the first three loads and one load from each 3 load sublot for plastic properties.	1 per 300 cy	N/A
Environmental Conditions	Evaporation Rate	Placement Site	N/A	Evaporation Potential determined at intervals not greater than 5 minutes until final curing system in place	N/A	N/A

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-	Table 906.1.2:13 - QLA PORTLAND CEMENT CONCRETE PAVEMENT (450)					
Item	Test Required	Sampling/ Testing	Agency Testing	Contractor Testing	Independent Assurance*	State Materials
		Location	rooming		Project Approach	Bureau
Fine Aggregates	Gradation	Stockpile	1 per week during concrete production	1 per day per day of production	Minimum 1 per project	Referee Testing
Coarse Aggregates	Gradation, F.F., F&E	Stockpile	1 per week during concrete production	1 per day per day of production	Minimum 1 per project	Referee Testing
Compressive Strength Cylinders, and Plastic Properties (Slump, Unit Weight, Calculated Air Content, Temperature) Compressive Strength See Table B	Strength Cylinders, and	1 per 500 C.Y.	One set of cylinders from one of the first three trucks. 1 set per 125 C.Y. thereafter			
	See Table B	1 per 500 C.Y.	For each of the first three trucks. 1 set per 125 C.Y. from the trucks selected for compressive strength testing thereafter.	1 per 2,500 cy	Referee Testing	
	Thickness	Roadway	1 per 5,000 S.Y.	1 per 2,500 S.Y.	N/A	
Environmental Conditions	Evaporation Rate	Placement Site	N/A	Evaporation Potential determined at intervals not greater than 5 minutes until final curing system in place	N/A	N/A

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Table 906.1.2:14 - TABLE B

Method of Placement	Sample Location
Pumped	Point of discharge from pump into structure
Direct Discharge from Truck	At end of discharge chute of truck
Crane and Bucket	From discharge chute of bucket
Conveyor belt	From material on roadway after being discharged from conveyor
Slip Form (Curb and Gutter/Barrier Walls)	Point of discharge into extrusion machine
Slip Form Paver (PCCP)	From grade in front of paving machine
Drill Shafts	At end of discharge chute of truck

Table 906.1.2:15 - Tolerances for Comparison of <u>Independent Assurance Sample Tests</u> to Acceptance and Process Control Tests

<u>CHARACTERISTICS</u>	<u>TOLERANCES</u>
Moisture/Density Test (Proctor)	± 3.0 PCF*, ± 2 Units for Moisture
In Place Moisture/Density (Roadway)	± 3.0 PCF, ± 2 Units for Moisture
Plasticity Index (P.I.)	± 3 Units
*Only if proctors are run by both District and Project. I 5.0 PCF	f proctors are not run by both District and Project ±
<u>GRADATION</u>	<u>TOLERANCES</u>
1 1/2" to 3/4"	± 6 Units
1/2" to No. 4	± 5 Units
No. 8 through No. 200	± 4 Units
Fractured Faces	± 5 Units
Flat & Elongated	± 5 Units
Fine Aggregate Angularity	± 3 Units
Sand Equivalent	± 4 Units
Aggregate Specific Gravity	± 0.020
CONCRETE	<u>TOLERANCES</u>
Slump	± 0.5 Inch
Unit Weight	± 2.0 PCF
Compressive Strength	Within-test coefficient of variation less than 5 %

HOT MIX ASPHALT (HMA)/ WARM MIX ASPHALT	<u>TOLERANCES</u>
(WMA)	
Roadway Density (Cores from project, retained by	± 0.025 Units
Agency and Contractor Personnel)	

Density (Nuclear)	± 4 Units
VMA	± 1.0 Units
Asphalt Content (Ignition Burn Oven)	± 0.50
Bulk Specific Gravity at Ndes	± 0.025 Units
Maximum Specific Gravity	± 0.020 Units
Air Voids	± 1.5 Units