



# **MATERIAL SAMPLING GUIDE SCHEDULE**

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TABLE 1  
 ACCEPTANCE SAMPLING GUIDE FOR SOILS

SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
203	Borrow (within 3 ft. of finished subgrade elevation)	Gradation <sup>(1)</sup>	In-Place	One per source, and as needed
		PI <sup>(1)</sup>		
203	Embankment	Proctor Density	In-Place	One per soil type, and as needed.
		Optimum Moisture		
	Compaction	In-Place	Minimum, one per 1000 ft. of lane width, per lift (subject to contractor sequencing)	
203	Embankment for Metal Pile Location only	pH	In-Place or Source	One per source.
		Resistivity		
203	Natural Ground for Embankment 5 ft. or less in height	Proctor Density	In-Place	One per soil type, and as needed.
		Optimum Moisture		
		Compaction	In-Place	One per 1500 ft.

<sup>(1)</sup>Independent Assurance Sampling and Testing required.

TABLE 1 (continued) ACCEPTANCE SAMPLING GUIDE FOR SOILS				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
203 205	Subgrade	Proctor Density	Roadway	One per soil type, and as needed.
		Optimum Moisture		
		Compaction	Roadway	
		Gradation	Roadway	
PI <sup>(1)</sup>	One per 1500 ft. or Change in material			
203	Soil for Shoulder Build-up	Gradation	In-Place or Source	One per soil type.
		PI		
		pH		
		Soluble Salts Compaction	In-Place	One per 1500 ft. or as directed by the Engineer.
501	Trench Backfill	Proctor Density	In-Place	One per soil type, and as needed.
		Optimum Moisture		
		Compaction	In-Place	One per 100 CY.
<sup>(1)</sup> Independent Assurance Sampling and Testing required.				

TABLE 1 (continued) ACCEPTANCE SAMPLING GUIDE FOR SOILS				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
803	Granite Mulch or Decomposed Granite	Gradation	In-Place or Source	One per 10,000 CY.
804	Top Soil	Gradation <sup>(1)</sup> ----- PI <sup>(1)</sup> ----- pH <sup>(1)</sup> ----- Soluble Salts ----- Calcium Carbonate ----- Exchangeable Sodium in percent and parts per million	In-place	Written soil analysis per source and six samples per lot [considering a lot is approximately 20,000 CY per source].
<sup>(1)</sup> Independent Assurance Sampling and Testing required.				

TABLE 2 ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
203 501  (When Contractor Quality Control <b>Is not</b> a bid item.)	Structure Backfill or Pipe Backfill	Proctor Density	Stockpile	One per source, and as needed.
		----- Optimum Moisture		
		Compaction	In-Place	One per 75 CY.
		Resistivity ----- pH	Source or Stockpile	One per source.
		Gradation <sup>(1)</sup> ----- PI <sup>(1)</sup>	On Project Site	One per 500 CY per source.
203 501  (When Contractor Quality Control <b>is</b> a bid item.)	Structure Backfill or Pipe Backfill	Proctor Density	Stockpile	One per source, and as needed.
		----- Optimum Moisture		
		Compaction	In-Place	One per 100 CY
		Resistivity ----- pH	Source or Stockpile	One per source.
		Gradation <sup>(1)</sup> ----- PI <sup>(1)</sup>	On Job Site	One per 1500 CY per source.
<sup>(1)</sup> Independent Assurance Sampling and Testing required.				

TABLE 2 (continued)  
 ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES

SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
303  (When Contractor Quality Control <b>is not</b> a bid item)	Aggregate Base	Abrasion <sup>(2)</sup>	Source	One per source.
		Proctor Density	Crusher Belt or Stockpile	At start of production, and as material changes
		Optimum Moisture		
		Compaction	Roadway	Minimum, one per 1000 ft. of lane width, per lift (subject to contractor sequencing)
		Fractured Coarse Aggregate Particles <sup>(1)</sup>	Stockpile	One per 10,000 tons.
		Gradation <sup>(1)</sup>  PI <sup>(1)</sup>	Windrow	One per 2000 tons, minimum one per shift.

<sup>(1)</sup> Independent Assurance Sampling and Testing required.

<sup>(2)</sup> Provided Materials Group concurs, historical abrasion values allowed.

TABLE 2 (continued)  
 ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES

SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
303  (When Contractor Quality Control <b>IS</b> a bid item.)	Aggregate Base	Abrasion <sup>(2)</sup>	Source	One per source.
		Proctor Density  Optimum Moisture	Crusher Belt or Stockpile	At start of production, then as material changes.
		Compaction	Roadway	One per lift, per 1500 ft.
		Fractured Coarse Aggregate Particles <sup>(1)</sup>	Stockpile	One per 10,000 tons.
		Gradation <sup>(1)</sup>	Windrow	One per 2000 tons, minimum one per shift.
		PI <sup>(1)</sup>		

<sup>(1)</sup> Independent Assurance Sampling and Testing required.

<sup>(2)</sup> Provided Materials Group concurs, historical abrasion values allowed.

TABLE 2 (continued)  
 ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES

SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
303  (When Contractor Quality Control <b>is not</b> a bid item.)	Aggregate base	Proctor Density	Crusher Belt or Stockpile	At start of production, then as material changes.
		Optimum Moisture		
		Compaction	Roadway	Minimum one, per lift, per 1000 ft. of lane width (subject to contractor sequencing)
		Fractured Coarse Aggregate Particles <sup>(1)</sup>	Stockpile	One per 10,000 tons.
		Gradation <sup>(1)</sup>	Windrow	One per 2000 tons, minimum one per shift.
		PI <sup>(1)</sup>		
		Abrasion <sup>(2)</sup>	Source	One per source.

<sup>(1)</sup> Independent Assurance Sampling and Testing required.

<sup>(2)</sup> Provided Materials Group concurs, historical abrasion values allowed.



TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
303  (When Contractor Quality Control <b>is</b> a bid item.)	Aggregate Subbase	Proctor Density	Crusher Belt or Stockpile	At start of production, then as material changes.
		Optimum Moisture		
		Compaction	Roadway	One per lift per 1500 ft.
		Fractured Coarse Aggregate Particles <sup>(1)</sup>	Stockpile	One per 10,000 tons.
		Gradation <sup>(1)</sup>	Windrow	One per 2000 tons, minimum one per shift.
		PI <sup>(1)</sup>		
Abrasion <sup>(2)</sup>	Source	One per source.		
<p><sup>(1)</sup> Independent Assurance Sampling and Testing required.  <sup>(2)</sup> Provided Materials Group concurs, historical abrasion values allowed.</p>				

TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
304	Aggregate for Cement Treated Base or Lean Concrete Base	Gradation <sup>(1)</sup>	Stockpile	One per 2000 tons, minimum one per shift. One per 10,000 tons.
		Fractured Coarse Aggregate Particles <sup>(1)</sup>	Stockpile	
		Abrasion <sup>(2)</sup>	Source	One per source.
		PI <sup>(1)</sup>	Stockpile	One per 2000 tons, minimum one per shift.
	for Lean Concrete Base	Sand Equivalent <sup>(1)</sup>	Stockpile	One every other day of Lean Concrete Base production.
<p><sup>(1)</sup> Independent Assurance Sampling and Testing required.</p> <p><sup>(2)</sup> Provided Materials Group concurs, historical abrasion values allowed.</p>				

TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
404	Cover Material	Abrasion <sup>(2)</sup>	Source or Stockpile	One per source.
		Bulk O.D. Specific Gravity	Stockpile	One per source.
		Percent Carbonates <sup>(2)</sup>		
		Dry Unit Weight		
		Fractured Coarse Aggregate Particles	Stockpile	One per 600 tons.
		Flakiness Index		
		Gradation <sup>(1)</sup>	Final Stockpile	One per 300 tons.
Moisture Content	Trucks at Scale	One per 300 tons.		
404 412 413	Blotter Material	Gradation <sup>(1)</sup>	Final Stockpile	One per stockpile.

<sup>(1)</sup> Independent Assurance Sampling and Testing required.

<sup>(2)</sup> Provided Materials Group concurs, historical abrasion values allowed.

TABLE 2 (continued)  
 ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES

SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
Refer to Special Provisions	Mineral Aggregate for Micro-Surfacing	Abrasion <sup>(2)</sup>	Source or Stockpile	One per source.
		Percent Carbonates	Stockpile	One per source.
		Gradation <sup>(1)</sup>	Final Stockpile	One prior to start of Micro-Surfacing production and one per 300 tons
		Sand Equivalent	Stockpile	One prior to start of Micro-surfacing production and one per 600 tons
		Fractured Coarse Aggregate Particles		
		Uncompacted Void Content		
Moisture Content	Trucks at Scale	One per 300 tons.		

<sup>(1)</sup> Independent Assurance Sampling and Testing required.

<sup>(2)</sup> Provided Materials Group concurs, historical abrasion values allowed.

TABLE 2 (continued)  
 ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES

SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
406	Mineral Aggregate for Asphaltic Concrete <b>[without reclaimed asphalt pavement (RAP)]</b> See PPD <sup>(3)</sup> .  (See Page 13 for mixes with RAP.)	Abrasion <sup>(2)</sup>	Source or Stockpile	One per source.
		Percent Carbonates (if required)		
		Sand Equivalent	Stockpile	One at least five days prior to start of asphaltic concrete production.
		Fractured Coarse Aggregate Particles		
		Uncompacted Void Content		
		Ignition Furnace Calibration	Cold Feed or Stockpile	One per days asphaltic concrete production, minimum of two per project.
		Sand Equivalent		
		Fractured Coarse Aggregate Particles		
Uncompacted Void Content				
Gradation	(See Bituminous Mixture requirements for Asphaltic Concrete - Page 47.)			

<sup>(1)</sup> Independent Assurance Sampling and Testing required.

<sup>(2)</sup> Historical abrasion values allowed, provided testing conducted within the past two years.

TABLE 2 (continued)  
 ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES

SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
406	Mineral Aggregate for Asphaltic Concrete  <b>[with reclaimed asphalt Pavement (RAP)]</b>  See PPD <sup>(3)</sup> . (See Page 12 for mixes without RAP.)	Abrasion <sup>(2)</sup> (Virgin Agg. & RAP Agg. separately)	Source or Stockpile	One per source.
		Percent Carbonates (if required) (Composite of Virgin Agg. and RAP Agg.)		
		Sand Equivalent (Virgin Agg. only)	Stockpile	One at least five days prior to start of asphaltic concrete production.
		Fractured Coarse Aggregate Particles (Composite of Virgin and RAP Agg.)		
		Uncompacted Void Content (Virgin Agg. only)		
		Ignition Furnace Calibration (Virgin Agg., RAP Agg., and RAP material)		
		Gradation, Binder Content <sup>(1)</sup> , and Moisture Content of RAP material	Individual stockpiles (belt cut allowed for single stockpile) Cold Feed or Stockpile	One per each lot of asphaltic concrete production.  <b>Sand Equivalent:</b> One per each days, Asphaltic Concrete production
		Sand Equivalent <sup>(1)</sup> (Virgin Agg. only)		
Fractured Coarse Aggregate Particles <sup>(1)</sup> (Composite of Virgin Agg. and RAP Agg. obtained from Arizona Test Method 428, Uncompacted Void Content <sup>(1)</sup> ) <b>(Special Mix only)</b> (Virgin Agg. only)				
Gradation	(See Bituminous Mixture requirements for Asphaltic Concrete - End Product on Page 47.)			

<sup>(1)</sup> Independent Assurance Sampling and Testing required.

<sup>(2)</sup> Historical abrasion values allowed, provided testing conducted within the past two years.

<sup>(3)</sup> ADOT Materials Policy and Procedure Directive.

TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
Refer to Special Provisions	Mineral Aggregate for Asphaltic Concrete - Miscellaneous Paving	Abrasion <sup>(2)</sup>	Source or Stockpile	One per source.
		Sand Equivalent	Stockpile	One per source. At discretion of the Engineer.
		Gradation	Cold Feed or Hot Bins	
501	Bedding Material for Pipe	Gradation <sup>(1)</sup>	Source or Stockpile	One per 300 CY per source.
		PI <sup>(1)</sup>		
		pH <sup>(1)</sup>		One per source.
		Resistivity <sup>(1)</sup>		
		Proctor Density	Source or Stockpile	One per source, and as needed.
		Optimum Moisture		
Compaction	In-Place	One every 50 CY.		
501	Filter Material for Perforated Pipe	Gradation <sup>(1)</sup>	Source or Stockpile	One per 300 CY per source.
<p><sup>(1)</sup> Independent Assurance Sampling and Testing required.</p> <p><sup>(2)</sup> Provided Materials Group concurs, historical abrasion values allowed.</p>				

TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
501	Plating Material for Pipe Ends	Gradation	Source or Stockpile	One per source, and as needed.
		PI		
501	Plating Material for Pipe Ends	Proctor Density	Source or Stockpile	One per source, and as needed.
		Optimum Moisture		
		Compaction	In-Place	One every 50 CY.
702	Crash Barrel Sand	Gradation	Plant or Site	One per each attenuator system location.
		Dry Unit Weight per cubic foot		
		Moisture Content		
	Sand and Rock Salt Mixture (when Sand Barrel Crash Cushions are installed at elevations above 3,000 feet)	Percent Rock Salt		
808	Bedding Material for Polyvinyl Chloride (PVC) Irrigation Pipe	Gradation	Source or Stockpile	One per source.



TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
913	Rock for Wire Tied Rip-rap, Gabions, Rip-rap (Slope Mattress), Grouted, Dumped and Rail Bank Protection	Specific Gravity	Source	One per source.
		Gradation (visual)	Project	One per 1/2 shift.
		Specific Gravity	Source	One per source.
		Gradation (visual)	Project	One per 1/2 shift.

TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1006	Fine Aggregate for Portland Cement Concrete (PCC) Classes P, S, and B	Gradation <sup>(1)</sup>	Batch Plant	One every 200 cu. yds. of PCC production or at engineers discretion
		Sand Equivalent <sup>(1)</sup>	Conveyer Belt or Stockpile	
		Soundness [when used in concrete over 4500 ft. elevation]	Stockpile	One per source. For evaluation of concrete aggregate sources, see PPD <sup>(3)</sup> .
		Organic Impurities		
		Mortar Strength		
Deleterious Substances [Clay Lumps and Friable Particles; Lightweight Particles]	Stockpile	At the discretion of Materials Engineering Group. For evaluation of concrete aggregate sources, see PPD <sup>(3)</sup> .		
<sup>(1)</sup> Independent Assurance Sampling and Testing required. <sup>(3)</sup> ADOT Materials Policy and Procedure Directive.				

TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1006	Coarse Aggregate for Portland Cement Concrete  (PCC) Classes P, S, and B	Gradation <sup>(1)</sup>	Batch Plant Conveyer Belt or Stockpile	One every 200 cu. yds. of PCC production or at engineers discretion
		Soundness [when used in concrete over 4500 ft. elevation]	Stockpile	One per source. For evaluation of concrete aggregate sources, See PPD <sup>(3)</sup> .
		Abrasion <sup>(2)</sup>		
		Deleterious Substances [Clay Lumps and Friable Particles; Lightweight Particles;  Material Passing No. 200 Sieve]	Stockpile	With the exception of “Material Passing No. 200 Sieve”, at the discretion of Materials Group. For evaluation of concrete aggregate sources, see PPD <sup>(3)</sup> .
Fractured Coarse Aggregate Particles	Stockpile	One per source.		

<sup>(1)</sup> Independent Assurance Sampling and Testing required.  
<sup>(2)</sup> Provided Materials Group concurs, historical abrasion values allowed.  
<sup>(3)</sup> ADOT Materials Policy and Procedure Directive.

TABLE 2 (continued) ACCEPTANCE SAMPLING GUIDE FOR AGGREGATES				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
Refer to Special Provisions	Aggregate for Arrestor Bed	Abrasion <sup>(2)</sup>	Screen Belt or Stockpile	One per source.
		Specific Gravity		
		Gradation <sup>(1)</sup>	Screen Belt or Stockpile	One per shift.
		Fractured Coarse Aggregate Particles <sup>(1)</sup>		
Flakiness Index <sup>(1)</sup>				
Refer to Special Provisions	Aggregate for Soil-Cement Bank Protection or Cement Stabilized Alluvium	Gradation <sup>(1)</sup> PI <sup>(1)</sup>	Source or Stockpile	One per 2000 tons, minimum of one per day.
<p><sup>(1)</sup> Independent Assurance Sampling and Testing required.  <sup>(2)</sup> Provided Materials Group concurs, historical abrasion values allowed.</p>				

TABLE 3 ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MATERIAL				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1005	Recycling Agent RA-1 RA-5 RA-25 RA-75	Per Specifications	Circulation Line Recommended (4)	Certificate of Compliance required and duplicate samples (each one gallon in a metal can) per 1/2 shift.
1005          404	Liquid Asphalt [Cutback Asphalt - (Medium Curing Type)] MC-70 MC-250 MC-800 MC-3000, for Prime Coat	Per Specifications	Distributor Recommended (4)	Certificate of Compliance required and duplicate samples (each one gallon in a metal can) per delivery unit.
<p>(4) Point of sampling specified by Engineer.</p> <p>Note: During production, samples of bituminous material shall be taken by the contractor and may be witnessed by the Engineer or Engineers' representative.</p>				

TABLE 3 (continued) ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MATERIAL				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1005	Emulsified Asphalt RS-1 CRS-1 RS-2 CRS-2 SS-1 CSS-1 CRS-2P	Per Specifications	Supplier (For pre-approval of material)	See PPD <sup>(3)</sup> .
		Residue	Distributor Recommended <sup>(4)</sup>	See PPD <sup>(3)</sup> .  For preapproved emulsions, Certificate of Compliance required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.
404	for Chip Seal Coat, Tack Coat, and Fog Coat	Residue	Distributor Recommended <sup>(4)</sup>	For emulsions not preapproved, Certificate of Analysis required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.

<sup>(3)</sup> ADOT Materials Policy and Procedure Directive.  
<sup>(4)</sup> Point of sampling specified by Engineer.  
 Note: During production, samples of bituminous material shall be taken by the contractor and may be witnessed by the Engineer or Engineers' representative.

TABLE 3 (continued) ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MATERIAL				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1005	Emulsified Asphalt Special Type (Diluted SS-1 or CSS-1)	Residue	Distributor Recommended (4)	See PPD <sup>(3)</sup> .
404	for Tack Coat and Fog Coat			For preapproved undiluted emulsions, Certificate of Compliance required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.
<p><sup>(3)</sup> ADOT Materials Policy and Procedure Directive.</p> <p><sup>(4)</sup> Point of sampling specified by Engineer.</p> <p>Note: During production, samples of bituminous material shall be taken by the contractor and may be witnessed by the Engineer or Engineers' representative.</p>				

TABLE 3 (continued) ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MATERIAL				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1005	Asphalt Cement (PG XX-XX)	Per Specifications		Certificate of Compliance required.
404	for Tack Coat			
406 410	for Asphaltic Concrete		Supplier or Project	A two gallon sample (two $\frac{3}{4}$ full one-gallon metal cans) at least five days prior to start of Asphaltic concrete production (for calibration of ignition furnace).
			Circulation Line Recommended <sup>(4)</sup>	
				Circulation Line Recommended <sup>(4)</sup>
			Circulation Line Recommended <sup>(4)</sup>	Certificate of Compliance required and duplicate samples (each one gallon in a metal can) per 1/2 shift.
<p><sup>(4)</sup> Point of sampling specified by Engineer.</p> <p>Note: During production, samples of bituminous material shall be taken by the contractor and may be witnessed by the Engineer or Engineers' representative.</p>				



TABLE 3 (continued) ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MATERIAL				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1005	Emulsified Recycling Agent (ERA) ERA-1 ERA-5 ERA-25 ERA-75	Per Specifications	Supplier (For pre-approval of material)	See PPD <sup>(3)</sup> .
		Residue	Distributor Recommended <sup>(4)</sup>	See PPD <sup>(3)</sup> . For preapproved ERA, Certificate of Compliance required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit. For ERA not preapproved, Certificate of Analysis required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.
	Residue	Distributor Recommended <sup>(4)</sup>	See PPD <sup>(3)</sup> .	
			For preapproved undiluted ERA, Certificate of Compliance required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.	
ERA (Diluted)				
404	for Fog Coat			For undiluted ERA not preapproved, Certificate of Analysis required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.

<sup>(3)</sup> ADOT Materials Policy and Procedure Directive.  
<sup>(4)</sup> Point of sampling specified by Engineer.  
 Note: During production, samples of bituminous material shall be taken by the contractor and may be witnessed by the Engineer or Engineers' representative.

TABLE 3 (continued) ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MATERIAL				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1005 1009 410	Asphalt Cement (PG XX-XX) for Asphalt - Rubber (Sprayed Applications)	Per Specifications	Circulation Line - Delivery Unit	Certificate of Compliance required and duplicate samples (each one gallon in a metal can) for each shipment - not less than one set of duplicate samples for each 40 tons.
1009 410	Asphalt - Rubber [CRA <sup>(5)</sup> ] Type 1, Type 2, or Type 3 (Sprayed Applications)	Per Special Provisions.	Distributor Recommended (4)	Certificate of Compliance required and a one gallon sample in a metal can per delivery unit.
Refer to Special Provisions	Emulsified Asphalt for Cold Recycled Asphaltic Concrete HFE- 150P	Per Special Provisions.  Residue	Supplier (for preapproval of material.)  Distributor Recommended (4)	See PPD <sup>(3)</sup> .  See PPD <sup>(3)</sup> .
				For preapproved emulsions, Certificate of Compliance required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.  For emulsions not preapproved, Certificate of Analysis required and duplicate samples (each 1/2 gallon in a plastic container) per delivery unit.

<sup>(4)</sup> Point of sampling specified by Engineer.

<sup>(5)</sup> CRA = Crumb Rubber Asphalt

Note: During production, samples of bituminous material shall be taken by the contractor and may be witnessed by Engineer or Engineers' representative.

ABLE 4 ACCEPTANCE SAMPLING GUIDE FOR PORTLAND CEMENT CONCRETE				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1006	Portland Cement Concrete (PCC) Class P	Compressive Strength <sup>(1)</sup>	Immediately before going into paver, forms or as otherwise directed by Engineer.	Five samples per lot.  (For compressive strength, one set of three cylinders per sample.)
		Slump		
		Air Content (when Required)		
		Temperature		
		Thickness	Roadway	At discretion of the Engineer.
1006	Portland Cement Concrete (PCC) Class S (with a compressive strength requirement <b>less than 4,000 psi</b> )	Compressive Strength <sup>(1)</sup>	At Discharge <sup>(6)</sup>	One sample for each 100 CY, or fraction thereof, of continuously placed concrete per day from each batch plant. For daily placements of 10 CY or less, at the Engineer's discretion.  (For compressive strength, one set of two cylinders per sample.)
		Slump		
		Temperature		
		Air Content (when Required)	At Discharge <sup>(6)</sup>	Sample for air content every 50 CY when elevation is above 3000 ft. For daily placements of 10 CY or less, at Engineer's discretion

(1) Independent Assurance Sampling and Testing required.

(6) At the discretion of the Engineer, if pumping concrete to facilitate placement, samples may be taken from the truck and pump hose discharge to determine that the compressive strength specifications are met in the structure, and to correlate temperature, slump, and air content results. If the correlation is satisfactory and meets with the approval of the Engineer, sampling may continue from the most convenient location with occasional retesting for correlation. Rejection of concrete due to improper temperature or slump may either occur at the truck or pump hose discharge; however, rejection of concrete due to improper air content will only occur due to a failing test for a sample obtained at the final point of discharge.

TABLE 4 (continued) ACCEPTANCE SAMPLING GUIDE FOR PORTLAND CEMENT CONCRETE				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1006	Portland Cement Concrete (PCC) Class S (with a compressive strength requirement <b>equal to or greater than 4,000 psi</b> )	Compressive Strength <sup>(1)</sup>	At Discharge <sup>(6)</sup>	One sample for each 100 CY, or fraction thereof, of continuously placed concrete per day from each batch plant. For daily placements less than 10CY, at Engineer's discretion.  (For compressive strength, one set of three cylinders per sample.)
		Slump		
		Temperature		
		Air Content (when Required)	At Discharge <sup>(6)</sup>	Sample for air content every 50 CY when elevation is above 3000 ft. For daily placements of 10 CY or less at Engineer's discretion.

(1) Independent Assurance Sampling and Testing required.

(6) At the discretion of the Engineer, if pumping concrete to facilitate placement, samples may be taken from the truck and pump hose discharge to determine that the compressive strength specifications are met in the structure, and to correlate temperature, slump, and air content results. If the correlation is satisfactory and meets with the approval of the Engineer, sampling may continue from the most convenient location with occasional retesting for correlation. Rejection of concrete due to improper temperature or slump may either occur at the truck or pump hose discharge; however, rejection of concrete due to improper air content will only occur due to a failing test for a sample obtained at the final point of discharge.

TABLE 4 (continued) ACCEPTANCE SAMPLING GUIDE FOR PORTLAND CEMENT CONCRETE				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1006	Portland Cement Concrete (PCC) Class B	Compressive Strength <sup>(1)</sup>	At Discharge <sup>(6)</sup>	One sample for each 100 CY of concrete placed from each batch plant. For daily placements of 10 CY or less, at the Engineer's discretion.
		Slump		(For compressive strength, one set of two cylinders per sample.)
		Temperature	At Discharge <sup>(6)</sup>	Sample for air content every 50 CY when elevation is above 3000 ft. For daily placements of 10 CY or less, at the Engineer's discretion.
Air Content (when Required)				
<p><sup>(1)</sup> Independent Assurance Sampling and Testing required.</p> <p><sup>(6)</sup> At the discretion of the Engineer, if pumping concrete to facilitate placement, samples may be taken from the truck and pump hose discharge to determine that the compressive strength specifications are met in the structure, and to correlate temperature, slump, and air content results. If the correlation is satisfactory and meets with the approval of the Engineer, sampling may continue from the most convenient location with occasional retesting for correlation. Rejection of concrete due to improper temperature or slump may either occur at the truck or pump hose discharge; however, rejection of concrete due to improper air content will only occur due to a failing test for a sample obtained at the final point of discharge.</p>				

TABLE 4 (continued) ACCEPTANCE SAMPLING GUIDE FOR PORTLAND CEMENT CONCRETE				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
601 1006	Portland Cement Structural  Concrete for Minor Precast Structures (Manholes, Cattle Guards, Utility Vaults, Catch Basins, Flared Ends, Etc.)	Rebound Hammer	At Fabrication Yard	One set of readings per precast unit.
601 1006	Pre-stressed Concrete	Compressive Strength ----- Slump ----- Temperature	At Discharge <sup>(6)</sup>	One sample per member or for each day's production. (For compressive strength, a minimum of two sets of 3 cylinders for de-tensioning, and one set of 3 cylinders for 28-day breaks.)
912	Shotcrete	Compressive Strength ----- Slump ----- Air Content (For Shotcrete placed at elevations of 3,000 feet and above)	Test Panels  At Mixer Discharge  From In-Place Material	Three cores from a test panel every 100 CY or fraction thereof, per day.  One per 50 CY or fraction thereof, per day.
922 1006	Utility Concrete	None		

(6) At the discretion of the Engineer, if pumping concrete to facilitate placement, samples may be taken from the truck and pump hose discharge to determine that the compressive strength specifications are met in the structure, and to correlate temperature, slump, and air content results. If the correlation is satisfactory and meets with the approval of the Engineer, sampling may continue from the most convenient location with occasional retesting for correlation. Rejection of concrete due to improper temperature or slump may either occur at the truck or pump hose discharge; however, rejection of concrete due to improper air content will only occur due to a failing test for a sample obtained at the final point of discharge.

TABLE 5  
 ACCEPTANCE SAMPLING GUIDE FOR MATERIALS USED WITH  
 PORTLAND CEMENT CONCRETE

SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
602 1003	Pre-stressing Steel (Spiral, Bars, Strand Wire, or Wire)	Tensile Strength	Project or Fabrication Plant	Certificate of Compliance required and one 6 ft. piece from each bar size, heat, reel, or coil.
602 1003	Post-Tensioning Steel	Tensile Strength	Project	Certificate of Compliance required and one 6 ft. piece from each bar size, heat, reel, or coil.
605 1003	Reinforcement Bars (Epoxy Coated or Uncoated)	Yield Strength, Tensile Strength, Bend Test, Elongation, Weight/Foot,		
	Phoenix and Tucson Sources	Coating Thickness (if applicable)	Fabrication Plant or Supplier's Yard	Certificate of Compliance required and samples as per PPD <sup>(3)</sup> .
			Project	Certificate of Compliance required and one 6 ft. bar per shipment. See PPD <sup>(3)</sup> .
Other sources		Project	Certificate of Compliance required and samples as per PPD <sup>(3)</sup> .	
1003	Welded Wire Fabric (Smooth)	Tensile Strength, Diameter, Spelter, Weld Shear, Reduction in Area	Supplier's Yard or Project	Certificate of Compliance required and at Engineer's discretion.

<sup>(3)</sup> ADOT Materials Policy and Procedure Directive.

TABLE 5 (continued) ACCEPTANCE SAMPLING GUIDE FOR MATERIALS USED WITH PORTLAND CEMENT CONCRETE				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1003	Welded Wire Fabric (Deformed)	Tensile Strength, Weld Shear, Weight/Foot	Supplier's Yard or Project	Certificate of Compliance required and one 4 ft. x 4 ft. sample per 25 sheets.
1006	Admixtures			Certificate of Compliance is required and must be on ADOT's Approved Products List. See PPD <sup>(3)</sup> .
1006	Curing Compound	Water Loss ----- % Solids	Supplier's Yard or Project	Certificate of Compliance and Must be on ADOT Approved Products List, for approval prior to use.
1006	Fly Ash and Natural Pozzolan	Chemical and Physical		Material supplied from an Approved Material Source. See PPD <sup>(3)</sup> .
1006	Silica Fume			Certificate of Compliance required with each delivery. See PPD <sup>(3)</sup> .
<sup>(3)</sup> ADOT Materials Policy and Procedure Directive.				



TABLE 5 (continued) ACCEPTANCE SAMPLING GUIDE FOR MATERIALS USED WITH PORTLAND CEMENT CONCRETE				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1006	Water	Soluble Salts ----- pH	Source	One sample (1 pint in glass container) per source <sup>(7)</sup> .
1006	Hydraulic Cement (All Types)	Chemical and Physical		Material supplied from an Approved Material Source. See PPD <sup>(3)</sup> .
1011	Joint Materials	Per Specifications		Silicone joint sealant must be on the ADOT Approved Product List. In addition, a Certificate of Analysis shall accompany each lot or batch of sealant. ----- For joint materials other than silicone joint sealant, only a Certificate of Compliance is required.
<p><sup>(3)</sup> ADOT Materials Policy and Procedure Directive.  <sup>(7)</sup> No sample is necessary if water is potable and comes from a proven source.</p>				

TABLE 5 (continued) ACCEPTANCE SAMPLING GUIDE FOR MATERIALS USED WITH PORTLAND CEMENT CONCRETE				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1013 604	Bearing Pads (Preformed Fabric)	Thickness ----- Compression Load	Project	Certificate of Analysis required and two sample pads from every 100, or fraction thereof, with a minimum of one sample pad per lot for each type of pad. [Tested by an Engineer approved testing laboratory. See PPD (3).]
1013 604	Bearing Pads (Plain and Fabric Reinforced Elastomeric)	Per Specification Subsection 1013-2	Project	Certificate of Analysis required and two sample pads from every 100, or fraction thereof, with a minimum of one sample pad per lot for each type of pad. [Tested by an Engineer approved testing laboratory. See PPD (3).]
1013 604	Bearing Pads (Steel Reinforced Elastomeric)	Per Specification Subsection 1013-2	Project	Certificate of Analysis required and two sample pads from every 100, or fraction thereof, with a minimum of one sample pad from each lot for each type of pad. [Tested by an Engineer approved testing laboratory. See PPD (3).]
(3) ADOT Materials Policy and Procedure Directive.				

TABLE 6  
 ACCEPTANCE SAMPLING GUIDE FOR STABILIZED SOILS AND BASES

SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
301	Lime Treated Subgrade	Proctor Density	Roadway	One per soil type, and as needed.
		Optimum Moisture		
		Compaction	Roadway	One per lift per 1000 ft.
302	Cement Treated Subgrade	Proctor Density	Roadway	One per soil type, and as needed.
		Optimum Moisture		
		Compaction	Roadway	One per lift per 1000 ft.
304	Cement Treated Base	Proctor Density	Roadway	At start of production then one per week, and as needed
		Optimum Moisture		
		Compaction	Roadway or Point of Placement	One per lift per 1000 ft.
		Compressive Strength <sup>(1)</sup>		Three random samples per shift. (Three specimens from each sample.)

<sup>(1)</sup>Independent Assurance Sampling and Testing required.

TABLE 6 (continued) ACCEPTANCE SAMPLING GUIDE FOR STABILIZED SOILS AND BASES				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
305	Lean Concrete Base	Compressive Strength <sup>(1)</sup>	At Discharge	Four random samples per 4000 SY, minimum four samples per shift.
		----- Slump		
		----- Air Content (when required)		
		----- Thickness	Roadway	Per Specifications.
Refer to Special Provisions	Bituminous Treated Base	See Special Provisions	Roadway	Engineer's discretion.
Refer to Special Provisions	Cement Stabilized Alluvium	Compressive Strength <sup>(1)</sup>	Roadway or Point of Placement	One set of three per 1500 CY, minimum one set of three per 1/2 shift.
Refer to Special Provisions	Soil-Cement Bank Protection	Compressive Strength <sup>(1)</sup>	Roadway or Point of Placement	One set of three per 1500 CY, minimum one set of three per 1/2 shift.
<sup>(1)</sup> Independent Assurance Sampling and Testing required.				

TABLE 7 ACCEPTANCE SAMPLING GUIDE FOR BITUMINOUS MIXTURES				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRE	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
406	Asphaltic Concrete	% Asphalt <sup>(1)</sup>	Roadway or point of placement	One sample per 500 tons. For placements of 100 Tons or less, Engineer's discretion.
		Moisture Content <sup>(1)</sup>		
		Rice <sup>(1)</sup>		
		Marshall Density <sup>(1)</sup>		
		Gradation <sup>(1)</sup>		
		Stability and Flow		One per two days asphaltic concrete production, minimum of two per project.
406	Asphaltic Concrete - Miscellaneous Paving			Tested Engineer's discretion.
<p><sup>(1)</sup> Independent Assurance Sampling and Testing required.</p> <p><sup>(3)</sup> ADOT Materials Policy and Procedure Directive.</p>				

TABLE 8 ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFI- CATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
301 503 913 1010	Lime (for use in soil stabilization, mortar, and grout)	Chemical and Physical		See PPD <sup>(3)</sup> .
404 406 410	Hydrated Lime (for use as mineral admixture in asphaltic concrete mixes)			Material supplied from an Approved Material Source. See PPD <sup>(3)</sup> .
302 304 501 503 505 601 602 912 913 1010	Hydraulic Cement (for use in soil stabilization, mortar, and grout)	Chemical and Physical		See PPD <sup>(3)</sup> .
404 406 410	Portland Cement and Blended Hydraulic Cement (for use as mineral admixture in asphaltic concrete mixes)			Material supplied from an Approved Material Source. See PPD <sup>(3)</sup> .

TABLE 8 (continued) ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
501	Corrugated Metal Pipe (CMP) [Coated or Non-coated]	Yearly check by ADOT Central Lab	Supplier's Yard	Certificate of Compliance required.
501 1006	Non-Reinforced, Cast-in-Place Concrete Pipe	Compressive Strength ----- Slump ----- Air Content (when required) ----- Temperature ----- Wall Thickness	At Discharge <sup>(6)</sup>       Site	Per Specifications.
501 1010	Precast Reinforced or Non-Reinforced Concrete Pipe	Compression (D-Load) ----- Wall Thickness	Supplier's Yard	Certificate of Compliance required and one sample for each 100 sections per size per type.
Refer to Special Provisions	Vitrified Clay Pipe	Compression	Project	One sample for each 100 sections per size per type.
505	Brick for Manholes	Compression	Project	One sample (3 bricks) per project.

<sup>(6)</sup> If pumping concrete to facilitate placement, at the discretion of the Engineer, samples may be taken from the truck and pump hose discharge to determine that the compressive strength specifications are met in the structure, and to correlate temperature, slump, and air content results. If the correlation is satisfactory and meets with the approval of the Engineer, sampling may continue from the most convenient location with occasional retesting for correlation.  
 Rejection of concrete due to improper temperature or slump may either occur at the truck or pump hose discharge; however, rejection of concrete due to improper air content will only occur due to a failing test for a sample obtained at the final point of discharge.

TABLE 8 (continued) ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
Refer to Special Provisions	Paving Brick	Compression ----- Absorption	Project	One sample (3 paving bricks) per project. Certificate of Compliance required.
Refer to Special Provisions	Cinder Block	Compression ----- Absorption	Project	One sample (3 cinder blocks) per project.
Refer to Special Provisions	Slump Block	Compression ----- Absorption	Project	One sample (3 slump blocks) per project.
604 731 1004 1012	High Strength Bolts, Nuts, Washers, or Anchor Bolts	Rockwell Hardness ----- Wedge Tensile Strength	Project	Certificate of Analysis required and three samples per lot, or 0.1% of lots in excess of 3000, for each bolt diameter, including nuts and washers.
608 1007	Retroreflective Sheeting	Per Specifications		Certificate of Compliance required and also must be on the Department's Approved Products List
608	Sign Panel Silk-Screened Characters			Certificate of Compliance required.



TABLE 8 (continued) ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
704 708	Glass Beads	Roundness	Supplier's Yard (Recommended) or Project	See PPD <sup>(3)</sup> .
		Gradation		For other than Dual Component Pavement Markings:
		Refractive Index		Certificate of Compliance required, and if preapproved, copy of Lab test results
		Moisture Resistance		If <u>not</u> preapproved by Central Lab, Certificate of Compliance required*, and a one gallon sample when material is supplied in a "super sack", or one full bag when material is supplied in a 50 pound bag.
		Heavy Metal Concentration (if required)		*If required, a Certificate of Analysis must also be submitted (certifying that the Heavy Metal Concentration meets the specifications).
				=====
				For Dual Component Pavement Markings:
				Certificate of Analysis required**, and if preapproved, a copy of the Central Lab test results.
				If <u>not</u> preapproved by Central Lab, Certificate of Analysis required**, and a one gallon sample when material is supplied in a "super sack", or one full bag when material is supplied in a 50 pound bag.
				**The Certificate of Analysis shall also include a Material Safety Data Sheet (MSDS).
(3) ADOT Materials Policy and Procedure Directive.				

TABLE 8 (continued) ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
705	Preformed Plastic Pavement Marking			<p>Certificate of Compliance required*, and must be on the Department's Approved Products List.</p> <p>*A Certificate of Analysis is also required (certifying that the Heavy Metal Concentration of the glass beads meets the specifications).</p>
704	Thermoplastic Pavement Markings	Per Specifications	<p>Supplier or Contractor</p> <hr/> <p>Project</p>	<p>At the discretion of the Engineer, a sample (one gallon in a metal can) of the material from each batch or, alternatively, sufficient material from one or more bags of material to make a representative one gallon sample, may be submitted to ADOT Central Lab for testing prior to use.</p> <p>Certificate of Compliance and must be on ADOT Approved Products List. (APL)</p> <p>Random spot checks for thickness of thermoplastic material during application process.</p>

TABLE 8 (continued) ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
706	Raised Pavement Markers	Per Specifications	Project	Certificate of Compliance required for markers and adhesive.
				Adhesive must be on the Department's Approved Products List.
				For non-reflective pavement markers, one sample (one marker) per lot per type.
				For reflective pavement markers, one sample (three markers) per lot per type.
708	Permanent Pavement Markings (Painted)	Per Specifications	Supplier or Contractor	Must be on ADOT's Approved Products List. prior to use.
			Project	Certificate of Compliance and a copy of the Central Materials Chemistry Lab test results are required.
				Check-samples of finished paint while being applied, at intervals determined by the Engineer.

TABLE 8 (continued) ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
732	Polyvinyl Chloride (PVC) Pipe for Electrical Conduit	Resistance to Crushing	Project	Certificate of Analysis
808	Polyvinyl Chloride (PVC) Pipe for Water	Wall Thickness ----- Burst Pressure ----- Diameter	Project	Certificate of Analysis
902	Chain Link Fabric			Certificate of Compliance required.
902	Fence Post and Rails			Certificate of Compliance required.
902 903	Miscellaneous Fence Hardware			Certificate of Compliance required.
902 903	Post Clips, Hog Rings, Tie Wire, or Tension Wire			Certificate of Compliance required.

TABLE 8 (continued) ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
903	Barbed Wire or Barbless Wire	Tensile Strength  Spelter  Diameter	Supplier's Yard or Project	Certificate of Compliance <sup>(8)</sup> required.
903	Fence Stays			Certificate of Compliance <sup>(8)</sup> required.
903	T-Post	Weight/Foot  Length	Supplier's Yard or Project	Certificate of Compliance <sup>(8)</sup> required.
903	Woven Wire Fabric	Spelter  Diameter  ----- Tensile Strength	Supplier's Yard or Project	Certificate of Compliance <sup>(8)</sup> required.
904 913	Wire Rope			Certificate of Compliance required.
<p><sup>(8)</sup> Certifying that manufacturing processes and application of coating occurred in the United States. (This certification required for Federal-Aid projects only. See Special Provisions for exception based on quantity used.)</p>				

TABLE 8 (continued) ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1002	Paint	Per Specifications	Project	Paint for use on structural steel and other metallic surfaces: ----- Certificate of Compliance required and system must be on ADOT Approved Products List. =====
				Paint for use on concrete or masonry surfaces: -----
			Supplier or Contractor	One Quart metal can of the material from each batch must be submitted to Central Lab for testing prior to use. -----
			Project	Certificate of Compliance and must be on the Department's Approved Products List. =====
			Project	Paint for use on other than structural steel and other metallic surfaces, concrete surfaces, or masonry surfaces: ----- Certificate of Compliance required and system must be on ADOT Approved Products List.

TABLE 8 (continued) ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1012	Guardrail Elements			Certificate of Compliance required.
1012	Guardrail Fasteners	Rockwell Hardness ----- Tensile Strength	Project	For other than High Strength Anchor Bolts, Certificate of Compliance required and three samples per lot, or 0.1% of lots in excess of 3000, for each bolt diameter, including nuts and washers.  For High Strength Anchor Bolts, see Page 51.
1012	Guardrail Posts and Blocks	None		Certificate of Compliance required. ----- For timber guardrail posts and blocks, see PPD <sup>(3)</sup> .
<sup>(3)</sup> ADOT Materials Policy and Procedure Directive.				

TABLE 8 (continued) ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
1014	Geo-synthetics		Supplier and Project	If material has been preapproved, Certificate of Compliance required and one sample for every 10 rolls per lot. (Minimum of one sample per lot.) Samples shall not be taken within 5 feet from either end of the roll, and shall be at least 6 feet long by the full width of the roll.
			Project	If material has <u>not</u> been preapproved, Certificate of Analysis required and one sample for every 10 rolls per lot. (Minimum of one sample per lot.) Samples shall not be taken within 5 feet from either end of the roll, and shall be at least 6 feet long by the full width of the roll.
NOTE: Information on Geo-synthetics continued on next page.				



TABLE 8 (continued) ACCEPTANCE SAMPLING GUIDE FOR MISCELLANEOUS MATERIALS				
SPECIFICATION SECTION	MATERIAL	TYPE OF TEST(S) REQUIRED	SAMPLING POINT	MINIMUM SAMPLING FREQUENCY
NOTE: Information on Geo-synthetics continued from previous				
1014 412	Pavement Fabric	Per Specification Subsection 1014-2		
1014 306	Geo-grid	Per Specification Subsection 1014-3		
1014 208	Separation Geotextile Fabric	Per Specification Subsection 1014-4		
1014 913	Bank Protection Fabric	Per Specification Subsection 1014-5		
1014 203	Geo-composite Wall Drain System	Per Specification Subsection 1014-6		
1014 307	Geo-composite Edge Drain System	Per Specification Subsection 1014-7		
208	Geo-membrane	See Special Provisions.		

TABLE 9  
 ILLUSTRATION OF SAMPLING TICKET AND LISTING OF CODES FOR  
 PURPOSE, TESTING LAB, SIZE, AND ROADWAY

Sample Ticket

PLEASE PRESS FIRMLY WHILE FILLING OUT FORM	ARIZONA DEPARTMENT OF TRANSPORTATION SAMPLE TABULATION SOIL, AGGREGATE, & BITUMINOUS MIXES	USE CAPITAL LETTERS LAB NUMBER	ORG NUMBER	MATL	TYPE	PUR- POSE	TEST LAB	SIZE	SIZE %	44-9346 R5/05	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
	TEST NO.	LOT OR SUFFIX	SAMPLED BY			MO	DAY	YEAR	TIME	MILITARY TIME	
	<input type="text"/>	<input type="text"/>	<input type="text"/>			<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
	SAMPLED FROM					LIFT NO.	RDWY	STATION			
	<input type="text"/>					<input type="text"/>	<input type="text"/>	<input type="text"/>			
	ORIGINAL SOURCE					PROJECT ENGINEER / SUPERVISOR		PROJECT NUMBER	TRACS NUMBER		
	<input type="text"/>					<input type="text"/>		<input type="text"/>	<input type="text"/>		
	REMARKS										
	<input type="text"/>										

Purpose Codes

- A Acceptance
- M Miscellaneous
- C Control
- P Independent Assurance
- I Informational

Testing Lab Codes

- C Central Lab
- R Regional Lab
- P Project Lab

Size Codes

Stockpiles:

- B Blend
- F Fine
- I Intermediate
- C Coarse
- K Coarsest

Bins:

- 9 Composite of Bins
- 1 Bin #1
- 2 Bin #2, etc.

Roadway Codes

- NB Northbound
- SB Southbound, etc.
- RA Ramp A
- RB Ramp B, etc.
- FR Frontage Road
- XR Crossroad

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