

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT <b>SM</b> Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
<b>301</b>								
SOIL CEMENT CONSTRUCTION	Soil for Soil Cement	Gradation <b>GDT-4</b>	DOT-409	30 lbs.	Plant Mix: 1 per day when running Road Mix: 2 per mile		Stockpile or roadway. Classification samples should be taken before Cement is added	Soil classification should be consistent with design.
		Theoretical Density <b>GDT-19 or GDT-67</b>			As necessary to insure adequate control			
		Percent Clay <b>GDT-4</b>						
		Volume Change <b>GDT-6</b>						
		Liquid Limit T-89						
		Plastic Limit and Plasticity Index T-90						
		Density <b>GDT-7 or GDT-67</b>						
		pH <b>GDT-98</b>						
		Sulfates ASTM D516						
		Soil Cement Design GDT 65			Issued by GDOT			
Portland Cement	Physical & Chemical Analysis	Certified Mill Test Report	1 gal container	QPL-3	Plant Mix: One per week Mixed in place: One per project	Distributor truck		
Water	Physical & Chemical Analysis <b>T26</b>	DOT-088	1 qt.*	One per unpotable Source		Enough in advance so that the results are known before use	*non-metal container	
In-Place Material	Thickness Measurement <b>GDT42</b>	DOT-176		One per 1,500 ft. per 2 lanes		Completed Course	Submit two six-inch cores per location	
	Compressive Strength of Cores <b>GDT-86</b>	DOT-308	6" core	One per mile <u>or</u> 1 per day				
	In-Place Density <b>GDT-20, GDT21 or GDT-59</b>	DOT-553		One per 1,500 ft. per 2 lanes				
	Bituminous Prime		Two 1qt cans	QPL-7	One per Project			Distributor truck
Plant Control	Mix Moisture			Every 400 tons <u>or</u> 1 per hour, conducted by contractor QCT				
	Percent Cement Check			Minimum 1 per day				

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SAND BITUMINOUS STABILIZED BASE COURSE	Sand	Gradation <b>GDT-4</b>	DOT-658	30 lbs.	One per Type, per Project		Stockpile or Roadway (before mixing)	
		Percent Clay <b>GDT-4</b>	DOT-408 / DOT-97					
		Theoretical Density <b>GDT-7 or GDT-67</b>			Established by Job Mix Formula		Before Bituminous Material is added	
		Classification <b>Section 810</b>						
	PG 64-22	Dynamic Shear <b>TP-315</b>	DOT-504M	Two 1 qt. cans	QPL-7	One per Project	Distributor truck Before mixing	
RC-800		DOT-503	Two 1 qt. cans	QPL-7	One per Project	Distributor truck Before mixing		

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	Emulsified SS1h	Viscosity <b>T59</b>	DOT-325	Two 1 gal.* container	QPL-7	One per Project	Distributor truck Before mixing	*non-metal container
	Cationic Asphalt Emulsion	Viscosity, Particle Charge <b>T59</b>	DOT-325	Two 1 gal.* container	QPL-7	One per Project	Distributor truck Before mixing	*non-metal container
	In-Place Material	Thickness Measurement <b>T191</b>	DOT-176		One per 1,500 ft, per 2 lanes		Completed Course	
		Density <b>GDT-21 or GDT-59</b>	DOT-553					

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TOPSOIL, SAND CLAY or Chert CONSTRUCTION	Topsoil, Sand Clay or Chert	Gradation <b>GDT-4</b>	DOT-408 / DOT-97	30 lbs.	One per 1,500 ft, per 2 lanes, per layer		Completed Course	Liquid Limit, Plastic Limit, Plasticity Index, Density & Volume Change may be determined by use of GDT112 on acceptance samples, except the first sample & each sixth sample thereafter.
		Percent Clay <b>GDT-4</b>						
		Liquid Limit <b>T89</b>						
		Plastic Limit <b>T90</b>						
		Volume Change <b>GDT-6</b>						
		Density <b>GDT-7 or GDT-67</b>						
	Stabilizer Aggregate - Types I & III	Gradation <b>T27</b>	DOT-658	45 lbs.	One sample per project.	As required by Project Engineer	Stockpile or Roadway	
Stabilizer Aggregate - Type II	Gradation <b>T27</b>	DOT-658	45 lbs.	One sample per project.	As required by Project Engineer			

		Sand Equivalent <b>GDT-63</b>						
In-Place Material		Thickness Measurement <b>GDT42</b>	DOT-176		One per 1,500 ft, per 2 lanes		Completed Course	
		In-Place Density <b>GDT-20, GDT21 or GDT-59</b>	DOT-553					
Bituminous Prime				Two 1 qt. cans	QPL-7		Distributor truck	
<b>304</b>								
IMPERVIOUS AGGREGATE	Soil Aggregate	Gradation <b>GDT-4 &amp; GDT-13</b>	DOT-658	45 lbs.	One sample per project.		In-Place (prior to Compaction)	Verification of acceptable designation must be made

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CONSTRUCTION		Volume Change <b>GDT-6</b>						through the Office of Materials & Research
		Liquid Limit <b>T89</b>						
		Plastic Limit <b>T90</b>						
		Plastic Index <b>T90</b>						
		Soil Aggregate Cement Design						
In-Place Compacted Course		Thickness Measurement <b>GDT42</b>	DOT-176		One per 1,500 ft, per 2 lanes, per Lift		Completed Course	
		In-Place Density <b>GDT-21 or GDT-59</b>	DOT-553					
<b>305</b>								
CEMENT STABILIZED SOIL AGGREGATE CONSTRUCTION	Soil	Gradation <b>GDT-4</b>	DOT-408 / DOT-97					
		Volume Change <b>GDT-6</b>						
		Density <b>GDT-7</b>						
	Aggregate		Gradation <b>T27</b>	DOT-658	45 lbs.	One sample per 20,000 tons, not less than one per project.		
Sand Equivalent <b>GDT-63</b>								

	Soil Aggregate-Cement Design			Issued by GDOT			
Portland Cement	Physical & Chemical Analysis <b>M85, M240</b>	DOT-658	20 lbs.	QPL-3	One per Quarter	Stock	
Cores	Compressive Strength <b>GDT-86</b>	DOT-386	6" cores	One per mile, per 2 lanes		Completed Course	Submit two six-inch core per location to Central or Branch Lab
Water	Physical & Chemical Analysis <b>T26</b>	DOT-088	1 qt.*	One per unpotable Source		Enough in advance so that results that are known before use	*non-metal container
Plant Control	Mix Moisture			One per hour, conducted by contractor QCT			
	Percent Cement Check			One per day or as necessary to control plant			

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	In-Place Compacted Course	GDT 21 or GDT 59	DOT-553		One per 1500 ft, per 2 lanes, per Lift			
		Thickness measurement GDT 42						
<b>310</b>								
GRADED AGGREGATE CONSTRUCTION	Graded Aggregate – Group 1 or 2	Gradation <b>T27</b>	DOT-658	45 lbs.	One sample per 20,000 tons, not less than one per project.		Roadway or Stockpile	
		Sand Equivalent <b>GDT-63</b>						
		Theoretical Density <b>GDT-49</b>						Established before beginning construction*
	Unconsolidated Lime rock Base	Gradation <b>T27</b>	DOT-658	45 lbs.	One sample per 20,000 tons, not less than one per project.		Roadway or Stockpile	

		Lime rock Bearing Ratio <i>Florida DOT Method &amp; FM 5-515</i>		200.bs.		As needed to control work.	Roadway or Stockpile	
		Total Carbonates (Insoluble Residue) <i>ASTM D3042</i>						
In-Place Material		Thickness Measurement <i>GDT42</i>	DOT-176		One per 1,500 ft, per 2 lanes		Completed Course	
		In-Place Density <i>GDT-21 or GDT-59</i>	DOT-553					
Bituminous Prime		Viscosity		Two 1 qt. cans	QPL-7			

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CEMENT STABILIZED GRADED AGGREGATE	Aggregate	Gradation <i>T27</i>	DOT-658	45 lbs.	One per week		Belt (before Cement is added)	
		Sand Equivalent <i>GDT-63</i>						

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	Portland Cement	Physical & Chemical Analysis <i>M85</i>	Certified Mill Test Report	20 lbs.	QPL-3	One per week	Stock	
	Water	Physical & Chemical Analysis <i>T26</i>	DOT-088	1 qt.*	One per unpotable Source		Enough to advance so results are known before use	*non-metal container
	In-Place Material	Thickness Measurement <i>GDT42</i>	DOT-176		One per 1,500 ft, per 2 lanes		Completed Course	Submit two six-inch core per location to Central or Branch Lab
		In-Place Density <i>GDT-21 or GDT-59</i>	DOT-553					
		Compressive Strength <i>GDT-86</i>		6" core	One per mile, per 2 lanes			
	Bituminous Prime		<b>GACERT</b>	Two 1 qt. cans	QPL-7			
	Plant Control	Mix Moisture			Minimum 2 per day, conducted by contractor QCT			
		Percent Cement Check						

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RECONSTRUCTED BASE / SUBBASE	In-Place Material	<b>As Specified</b>	DOT-408 / DOT-97	See Plans or Proposal for Type of Material				
Test Procedures shall conform to the requirements for the Material specified.								
Section 301, Soil Cement Construction Section 302, Sand Bituminous Stabilized Base Coarse Section 303, Topsoil or Sand Clay Construction Section 310, Graded Aggregate Construction								

<b>318</b>								
SELECTED MATERIAL SURFACE COURSE	Topsoil, Sand, Clay or Chert	Gradation <b>GDT-4</b>	DOT-408 / DOT-97	30 lbs.	One per 1,500 ft per two lanes		After mixing but before Compaction	
		Percent Clay <b>GDT-4</b>						
		Liquid Limit <b>T89</b>						
		Plastic Limit <b>T90</b>						
		T90						
		Volume Change <b>GDT-6</b>						
		Density <b>GDT-7 or GDT-67</b>						

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SELECTED MATERIAL SURFACE COURSE	<b>Graded Aggregate</b>	Gradation <b>T27</b> Sand Equivalent <b>GDT-63</b>	DOT 658	45 lbs.	"C", "T" and "V" sources: One sample per 20,000 tons. "D" sources: One per 5, 000 tons.		Roadway	
		Theoretical Density <b>GDT-49</b>			Established before beginning construction*			*GDT-45
	In-Place Material	Thickness Measurement <b>GDT42</b>	DOT-176		One per 1,500 ft, per 2 lanes		Completed Course	
		In-Place Density <b>GDT-21 or GDT-59</b>	DOT-553					
	Bituminous Prime	Viscosity		Two 1 qt. cans	QPL-7		Distributor truck	
	Stabilizer Aggregate Types I & III	Gradation T27	DOT-658	45 lbs.	"C", "T" and "V" sources: One sample per 20,000 tons. "D" sources: One per 5, 000 tons.		Stockpile or Roadway (prior to spreading)	

	Stabilizer Aggregate - Type II	Gradation <b>T27</b>	DOT-658	45 lbs.	C", "T" and "V" sources: One sample per 20,000 tons. "D" sources: One per 5,000 tons.	As required by Project Engineer	Stockpile or Roadway (prior to spreading)	
		Sand Equivalent <b>GDT-63</b>						
	In-Place Material	Thickness Measurement <b>GDT42</b>	<b>DOT 176</b>		One per 2 miles		Completed Course	*When required

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LIME-FLY ASH SOIL CONSTRUCTION	In-Place Material	Theoretical Density <b>GDT-19</b>	<b>DOT-553</b>	20 lbs.	Established before beginning construction		Before Lime Fly Ash is added	
		In-Place Density <b>GDT-20</b>			One per 1,500 ft, per 2 lanes		Completed Course	

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		Thickness Measurement <b>GDT42</b>	DOT-176					
	Fly Ash	<b>AASHTO M-295</b>	<b>DOT-175 GACERT</b>	1 gal.	QPL-30 1 per project		Distributor truck	
	Lime	<b>ASTM C-977</b>		1 gal	1 per project		Distributor Truck	

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STABILIZED BASE MATERIAL FOR PATCHING	Graded Aggregate	Gradation <b>T27</b>		45 lbs.	C", "T" and "V" sources: One sample per 20,000 tons. "D" sources: One per 5,000 tons.		Belt (before Cement is added)	
		Sand Equivalent <b>GDT-63</b>						
	Portland Cement	Physical & Chemical Analysis <b>M85</b>		1 gal.	QPL-3	One per 2,000 tons	Distributor or tanker	
	Bituminous Prime	Viscosity <b>T201 (Cutback Asphalt)</b>	<b>DOT-325</b>	Two 1 qt. cans	QPL-7		Distributor truck	

In-Place Material	In-Place Density <b>GDT-20, GDT21 or GDT-59</b>			As necessary for adequate control		Completed Course	
Soil for soil cement	Gradation <b>GDT-4</b>	DOT-409	25 lbs.	Plant Mix: 1 per week Road Mix: 2 per mile			Soil classification should be consistent with design.
	Percent Clay <b>GDT-4</b>						
	Volume Change <b>GDT-6</b>						
	Density <b>GDT-7 or GDT-67</b>						
	pH <b>GDT-98</b>						
	Sulfates ASTM D516						
	Compressive Strength		6" core	One per mile or 1 per day			Submit two cores per location
Stabilizer Aggregate – Types I & III	Gradation <b>T27</b>	DOT-658		One per project	As required by Project Engineer		
Stabilizer	Gradation <b>T27</b>	DOT-658		One per 1,500 tons	As required by		

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	Stabilizer Aggregate – Type II	Gradation <b>T27</b>	DOT-658	45 lbs.	One per project		Roadway or stockpile	
		Sand Equivalent <b>GDT-63</b>						
	Soil	Gradation <b>GDT-4</b>	DOT-408 / DOT-97	25 lbs.	One per 1,500 ft, per 2 lanes			
		Percent Clay <b>GDT-4</b>						
		Volume Change <b>GDT-6</b>						
		Density <b>GDT-7 or GDT-67</b>						
<b>326</b>								
PORTLAND CEMENT CONCRETE SUBBASE	Concrete	Air Content <b>GDT-26</b>	DOT-319		One per 2,000 yd <sup>3</sup> , per day		During pouring operation	
		Slump <b>GDT-27</b>						
		Thickness <b>Field Control</b>						

	Compressive Strength <b>GDT-35</b>		6" X 12" cylinder		Two sets per week of operation	
Graded Aggregate	Gradation <b>T27</b>					
	Sand Equivalent <b>GDT-63</b>	DOT-658	45 lbs.	One per week		Stockpile
Coarse Aggregate	Gradation <b>T27</b>	DOT-658	45 lbs.	One per week		Belt or Stockpile

Fine Aggregate	Sand Equivalent <b>GDT-63</b>	DOT-658	20 lbs.	One per week	QPL-1 Sources, 1	Belt or Stockpile	
	Gradation <b>T27</b>						
Fly Ash	Fineness <b>M295</b>						
	Activity <b>M295</b>						
	Soundness <b>M295</b>	DOT-175	10 lbs.	QPL-30	One per 400 tons	Jobsite storage	
	Density <b>M295</b>						
Portland Cement	Chemical <b>M295</b>						
	Air Content <b>M85</b>						
	Fineness <b>M85</b>						
	Autoclave <b>M85</b>						
	Compressive Strength <b>M85</b>	DOT-175	10 lbs.	QPL-3	One per 2,000 tons	Jobsite storage	
	Vicat <b>T131</b>						
	Chemical <b>M85</b>						
Water	Quality of Water to be Used in Concrete T26	DOT-088	1 qt.*	One per unpotable source, per month		Prior to use	*non-metal container