Materials Sampling Guide

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Section 10

Compaction – Subgrade (Cohesive Soils)

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DATE: 08-23-00 REVISED: 02-12-04

		Minimum Materia	l Certificate, Sample	and Inspection F	Requirements			
MATERIAL	TYPE OF TEST	Q.C. SAMPLING AND TESTING BY CONTRACTOR	VERIFICAT	ION SAMPLING AND BY NDOR	TESTING	ADDIT	LOCATION OF ADDITIONAL INFORMATION	
Section:	10 – Compact	tion – Subgrade (Cohesive Soils)	FIELD PERSONNEL	BRANCH LAB	LINCOLN LAB	NOTE No.	PAGE No.	
1) Subgrade Compaction & Subgrade Re- construction	Moisture - Density		In-place moisture density tests each 1000 feet or less, or in cases of short sections, moisture-density tests to confirm the Project Manager's judgement on compliance with specification requirements. Also each soil change should be represented. Moisture-density tests each 1000 feet or less, per side of the subgrade for concrete base course widening. If tested layer is disturbed by construction operations, rain etc., check tests shall be taken to assure compliance with specifications prior to subsequent construction. Moisture-density tests should also be taken at bridge ends, railroad crossings, project ends, county road intersections, driveways, patches etc., to confirm Project Manager's judgement on compliance with specifications. Project personnel to supply the sample needed to perform the testing shown under the Branch/Lincoln Lab column.	Compaction curve data usually will be furnished by the Materials and Research Division. In those cases where these are not available, large samples (approximately 60 pounds) for compaction curves shall be submitted to the Lincoln Laboratory or the Branch Laboratory by project personnel.	Compaction curve data usually will be furnished by the Materials and Research Division. In those cases where these are not available, large samples (approximately 60 pounds) for compaction curves shall be submitted to the Lincoln laboratory or Branch Laboratory by project personnel.			

		Minimum Material	Minimum Material Certificate, Sample and Inspection Requirements						
MATERIAL	TYPE OF TEST	Q.C. TESTING BY CONTRACTOR	VERIFICATION SAMPLING AND TESTING BY NDOR			LOCATION OF ADDITIONAL INFORMATION			
Section: 10	0 – Compa	action – Subgrade (Cohesive Soils)	FIELD PERSONNEL	BRANCH LAB	LINCOLN LAB	NOTE No.	PAGE No.		
2) Fly Ash	Quality		Refer to Section 1 of the Approved Products List. Fly Ash is sampled at the fly ash mill and is accepted for use with a manufacturer's certification. A one-gallon sample is required when requested by the Materials and Research Division, the inspector questions the material or the material has been in storage for 90 days or more. Sample to be submitted to the Lincoln Laboratory.		One-gallon sample when submitted from fly ash plant or field.				
3) Hydrated Lime or Pebble Quicklime	Quality		Project personnel will supply one one-pound sample for each 1000 tons (minimum of three samples per project) of material used to perform the testing shown under the Lincoln Lab column. (Place the lime in a plastic bag before putting in the cloth sample bags).		One one-pound sample for each 1000 tons (minimum of three samples per project) of material used for quality tests.				
4) Subgrade Soil & Hydrated Lime or Pebble Quicklime for Mix Design	Quality		Project personnel will supply a 60-pound sample of subgrade soil and a five-pound sample of lime to perform the testing shown under the Lincoln Lab column. (Place the lime in a plastic bag before putting in the cloth sample bags).		One 60-pound sample of subgrade soil and one five-pound sample of lime to perform the testing for mix design.				