

October 19, 2010

Supersedes October 16, 2007

ROADWAY & BORROW EXCAVATION & EMBANKMENTS

Section 2102 & 2107

Matls. IM 204
Appendix A (US) Units

MATERIAL OR CONSTRUCTION ITEM	TESTS	METHOD OF ACCEPTANCE & RELATED IMs	QUALITY CONTROL					INDEPENDENT ASSURANCE & VERIFICATION S&T					REMARKS	
			SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY	REPORT	S&T TYPE	SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY		REPORT
SOURCE INSPECTION														
Special Backfill Crushed Stone (4132.02) Crushed Concrete (4132.02) RAP (2303.02) Gravel (4132.03)		AS												
		209												
		209, 210												
		209												
Granular Backfill	Quality	AS												
(4133, 4134)		209												
Engr. Fabric (4196)	Quality	AS												
GRADE INSPECTION														
Moisture Control, (QC by Contractor) Note 1	Proctor	309	CONTR	1/ soil class	25 lb	CONTR	Field Book & Test Report	V	RCE	1/ 10 req'd QC tests 1/proj.	25 lb.	RCE	Field Book	
	Moisture	334	CONTR	1/lift/1500 ft. (for max of 1300 cy)	1 lb	CONTR	Field Book & Test Report	V	CONTR/ RCE	1/ 10 req'd QC tests Witness 1/proj.	25 lb. 1 lb.	CTRL RCE	Test Report Field Book	Note 2
Moisture & Density Control, including Special Compaction of Subgrade (2109.03C), (QC by Contractor) Note 1	Proctor	309	CONTR	1/ soil class	25 lb	CONTR	Field Book & Test Report	V	RCE	1/ 10 req'd QC tests 1/proj.	25 lb. 25 lb.	RCE CTRL	Field Book Test Report	
	Moisture	334	CONTR	1/lift/1500 ft. (for max of 1300 cy)	1 lb	CONTR	Field Book & Test Report	V	CONTR/ RCE	1/ 10 req'd QC tests Witness 1/proj.	1 lb.	RCE	Field Book	Note 2
	In-place Density	326, 334	CONTR	1/lift/1500 ft. (for max of 1300 cy)	As req'd by test	CONTR	Field Book & Test Report	V	RCE/ DME	1/10 req'd QC tests Witness 1/proj.		RCE/ DME	Field Book	Note 3
AS-Approved Source ASD-Approved Shop Drawing S&T-Sampling & Testing		Cert A- Type A Certification Cert C- Type C Certification Cert D- Type D Certification	RCE-Resident Construction Engineer/Project Engineer DME-District Materials Engineer CTRL-Central Materials Office CONTR-Contractor				ent Assurance V-Verification							

Note 1: When Contractor QC testing is not required in the contact documents. The RCE will perform verification testing at the frequency listed for QC.

Note 2: RCE will direct the Contractor to take a moisture sample beside the RCE verification sample location.

Note 3: If testing is done with a portable moisture-density gauge, the gauge calibration will be verified on the Validator block.

Note: For earthwork quantities of less than 50,000 Yd³, No IA will be required.