

Sampling & Testing Guide-Minimum Frequency

ROADWAY & BORROW EXCAVATION & EMBANKMENTS
Section 2102 & 2107

Matls. IM 204
Appendix A (US) Units

April 17, 2012
Supersedes October 19, 2010

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)		AS 209												
Crushed Concrete (4132.02)		209,210												
RAP (2303.02)														
Gravel (4132.03)		AS 209												
Granular Backfill (4133, 4134)	Quality	AS 209												
Engr. Fabric (4196)	Quality	AS 496.01												
GRADE INSPECTION														
Moisture Control, (QC by Contractor) Note 1	Proctor	309	CONTR	1/ soil class	25 lb	CONTR	Field Book & Test Report	V IA (4)	CONTR/ RCE/ CONTR/ DME	1/ 10 req'd QC tests (min. 1) 1/proj.	25 lb. 25 lb.	RCE CTRL	Field Book Test Report	
	Moisture	335, 334	CONTR	1/lift/1500 ft (for max of 1300 cy)	1.1 lb	CONTR	Field Book & Test Report	V IA (4)	CONTR/ RCE DME	1/ 10 req'd QC tests (min. 1) Witness 1/proj.	1.1 lb.	RCE	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 IA (4)	CONTR/ RCE CONTR/ DME	1/ 10 req'd QC tests (min. 1) 1/proj.	25 lb. 25 lb.	RCE CTRL	Field Book Test Report	
	Moisture	335, 334	CONTR	1/lift/1500 ft.(for max of 1300 cy)	1.1 lb	CONTR	Field Book & Test Report	V IA (4)	CONTR/ RCE DME	1/ 10 req'd QC tests (min. 1) Witness 1/proj.	1.1 lb.	RCE	Field Book	Note 2
	In-place Density	326 & 324, ASTM D2397, D2167, D1556, & AASHTO T191 & T233	CONTR	1/lift/1500 ft (for max of 1300 cy)	As req'd by test	CONTR	Field Book & Test Report	V IA (4)	RCE/ DME DME	1/10 req'd QC tests (min. 1) 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			IA-Independent 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 4: For earthwork quantities of less than 50,000 Yd³, No IA will be required.