

THIS IS A NEW APPENDIX. – PLEASE READ CAREFULLY.

Sampling & Testing Guide-Minimum Frequency
CONCRETE DRILLED SHAFT FOUNDATIONS

DS-01038

October 18, 2005
 New Issue

Matls. IM 204
 Appendix I

MATERIAL OR CONSTRUCTION ITEM	TESTS	METHOD OF ACCEPTANCE & RELATED IMs	QC/ACCEPTANCE S&T					ASSURANCE, CORRELATION & VERIFICATION S&T					REMARKS ➡	
			SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY	REPORT	S&T TYPE	SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY		REPORT
PLANT INSPECTION														
Aggregate- Fine (4110)	Gradation	302, 306 336	CONTR	3/lot	IM 301	CONTR	800240	ASSUR CORR	DME CONTR	1/1000 cy➡ 1 st day +10%	IM 301 IM 301	DME RCE		System Approach Applicable
	Moisture	➡ 308, 528	CONTR	1/lot	1000 gm	CONTR								See IM 528 if Moisture Probe is used
	Sp. Gr.	307	CONTR	IM 528	1000 gm	CONTR								
	Quality	AS 209												
Aggregate- Coarse (4115)	Gradation	302, 306 336	CONTR	3/lot	IM 301	CONTR	800240	ASSUR CORR	DME CONTR	➡1/1000 cy 1 st day+10%	IM 301 IM 301	DME RCE		System Approach Applicable
	Moisture	308, 528	CONTR	1/lot	2000gm	CONTR								
	Sp. Gr.	307	CONTR	IM 528	2000gm	CONTR								
	Quality	AS 209						V	DME	1/1000 cy	50 lb	CTRL		
Portland Cement	w/c ratio	528	CONTR	1/pour		CONTR								
	Quality	AS Cert D					V	DME	1/1000 cy	15 lb	CTRL			
Fly Ash	Quality	AS Cert D		Each Load			800240							
Air-Entraining Admixture (4103)		AS 403	DME	1/lot➡	1 pint	CTRL								Sample lots not previously reported or as required by DME
Retarding Admixture		AS 403	DME	1/lot➡	1 pint	CTRL								
AS-Approved Source ASD-Approved Shop Drawing S&T-Sampling & Testing		Cert A-Type A Certification Cert C-Type C Certification Cert D-Type C Certification			RCE-Resident Construction Engineer/Project Engineer DME-District Materials Engineer CTRL-Central Materials Office CONTR-Contractor			ASSUR-Independent Assurance VERIF-Verification CORR-Correlation MON-Monitor						

Verification/Assurance samples not required when mix quantity is less than 50 cu. yd.

NOTE: When the Project Engineer does the acceptance gradation testing, the assurance sample is to be split with the Project Engineer. This split sample is for correlation purposes and, if it is not a routine lot sample, should not be used for determining specification compliance of a lot. However, any non-compliant test result is to be resolved.

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GRADE INSPECTION														
Plastic Concrete	Air Content	316, 327	RCE	1/30 cy		RCE	E145*	ASSUR	DME	1/1000 cy		DME		DME may adjust
	Slump	317, 327	RCE	1/30 cy		RCE		ASSUR	DME	1/1000 cy		Witness Only		DME may adjust
	Cylinders								DME	3/project		DME		Primary Projects Only (Information only)
Reinforcing Steel (4151)	Quality	AS Cert A		Each Shipment			Field Book							
Metal Access Pipe		Visual												
Drilling Slurry	Density, Viscosity, pH, Sand Content	387	CONTR	1/2 hours		CONTR								1/4 hours if consistent
Crosshole Sonic Log Test		SS-01038	CONTR	1/shaft		CONTR	Report, Analysis, Interpretation							
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*Available from the Office of Construction.