

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Abrasives for Blast Cleaning	482.03				Approved Source			Note brand in field book
Admixture-Air Entraining	403	4103	1 pt.	DME or RCE	Approved Source Batch (Lot)		Project	Contact District Matls.
Admixture-Corrosion Inhibitor	402	4103	1 pt.	DME or RCE	Approved Source Batch (Lot)		Project	Contact District Matls.
Admixture-Retarder	403	4103	1 pt.	DME or RCE	Approved Source Batch (Lot)		Project	Contact District Matls.
Admixture-Water Reducer	403	4103	1 pt.	DME or RCE	Approved Source Batch (Lot)		Project	Contact District Matls.
Aggregates-Non-proportioned	209	4110-4133	IM 301	DME/PROD.	Approved Source/Certified Truck Tickets, (Form #821278)	D	Source	Certified Ticket for pay items by weight
Aggregates-Proportioned	209 & 204	4110-4133	IM 301	CONTR/RCE/DME	Approved Source/Certified Truck Tickets, (Form #821278)	D	Source Project	
Aluminum, Structural		4190.01			Approved Shop Drawing & Fabrication Report			
Anchor Bolts	453.08	2522.03, E,4 4185.02, A 4187.01, C	1 bolt, nut & washer per size, per project	DME	Approved Source/Test Report/Steel Mill Certifications	A		
Anchors, Concrete	453.09				Approved Source			
Anti-Strip Agent	491.16				Approved Source			
Arrow Panels, Solar-Assisted	486.12	2528.03, G			Approved Source			
Asphalt Binder	437	4137	1 4-oz. tin	CONTR/DME	Approved Source/Certification/Test Rpt.	D	Source Project	
Asphalt, Cutback	437	4138	1 qt. tin	RCE	Approved Source/Certification/Test Rpt.	D	Source	

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Asphalt, Emulsified	437	4140	1 qt. bottle	RCE	Approved Source/Certification/Test Rpt.	D	Source	Project verification for seal coat
Attenuators -see crash cushion								
Attenuators, Guardrail					As per plan			
Backer Rod for Cold Pour Joint Seal	436.04	4136.02, B			Approved Source			
Backer Rod for Hot Pour Joint Seal	436.04	4136.02, B			Approved Source			
Barrier Rail, Precast Concrete	571	2513			Approved Source/DOT Stamp/Fabrication Report		Source	
Beads, Glass	484	4184	1 qt.	DME	Approved Source		Subcontr.	
Bearing, Bronze		4190.03	1/project	DME	Test Report			
Bearing, Lead		4195.01			Certification	D		
Bearing, Neoprene	495.03	4195.02	1/pad	DME	Fabrication Report/Approved Source		Fabricator	
Bentonite Clay					Visual Approval by RCE			
Bolts, Nuts & Washers, Structural	453.06B	4153.06	Per IM 453.06B	DME	Certification/Rotational Capacity Test/Test Report	A		
Calcium Chloride Solution	373	4194.01	4 lbs. or 1 qt.	RCE	Test by RCE			
Caulking Compound		4192			Visual Approval by RCE			
Concrete, Special Sections	445	4145 4149.02, B			Approved Source, Fabricator's trade mark, Date of Manufacture, Certified stamp, Certification	D	Source	

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Concrete, Modular & Segmental Block	445.04				Approved Source/Certification	D		
Concrete, Precast Box Culvert	445.02	2415			Approved source, Approved Shop Drawing, Fabricator's trade mark, Date of Manufacture, Certified stamp, Certification	D	Source	
Concrete, Prestressed, Precast Units	570	2407			Approved Source, Fabricator's trade mark, Date of Manufacture, DOT Inspection stamp, Fabrication Report		Source	
Concrete Sealer	491.12	4139			Approved Source			
Conduit – See Lighting Matl.								
Curing Mats., Burlap		4104			Visual Approval by RCE			
Curing Mats., Clear	405.07	4105.07			Approved Source			
Curing Mats., Dark-colored	437	4105.06			Approved Source		Source	
Curing Mats., Plastic Film		4106.01			Visual Approval by RCE			
Curing Mats., White Pigmented	405	4105.05	1 qt.	DME	Batch (Lot) Accept		Source	
Crash Cushion	455	2551			Approved Source, Certification if source not clearly marked	D		
Delineators–See Signing Mats.								
Detectable Warning Panels	411	2511.02, D			Approved Source			
Dowel-See Steel Reinforcement								

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Drainage Trough, Elastomeric Bridge Joints	494				Approved Source			
Drains, Floor		2406.03, D			Approved Shop Drawing & Fabrication Report			
Drums, Channelizing	488.02	4188.02			Approved Source			
Epoxy-coated Steel-See Steel Reinforcement								
Epoxy Injection Resin	491.19				Approved Source			
Erosion Control, Fertilizer	469.03	4169.03			Approved Source http://idalsdata.org/iowaData/fertilizer.cfm			If material is suspect, DME will sample
Erosion Control, Inoculant		4169.04			Seed Manufacturing Recommendation			
Erosion Control, Mulch		4169.07			Visual Approval by RCE			
Erosion Control, Mulch, Hydraulic	469.10	4169.07			Approved Source			
Erosion Control, Mulch, Weed Free		4169.07			Weed Free Certification Statement & Visual Approval by RCE			
Erosion Control, Perimeter & Slope Sediment Control Devices	469.10	4169.07			Approved Source			
Erosion Control, Seed	469.02	4169.02			Certification	A		
Erosion Control, Silt Fence Fabric	496.01	4196.01			Approved Source			
Erosion Control, Silt Fence Wire & Posts		Std. Road Plan RC-17 Series			Visual Approval by RCE			

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Erosion Control, Sod		4169.06			Visual Approval by RCE			
Erosion Control, Sod Stakes		4169.09			Visual Approval by RCE			
Erosion Control, Sticking Agent		4169.05			Seed Manufacturing Recommendation			
Erosion Control, Wire Staples		4169.10, A			Visual Approval by RCE			
Erosion Control, Wood Excelsior Mat	469.10				Approved Source			
Expansion Device, Steel		4152.02			Approved Shop Drawing & Fabrication Report			
Expansion Tube		4191.01, B			Visual Approval by RCE			
Fabric Engineering	496.01	4196.01			Approved Source			
Fasteners, Aluminum Structural	486	4190.02			Fabrication Report			
Fence, Barbed Wire		4154.04			Visual Approval by RCE			
Fence, Brace for Field Fence		4154.08			Visual Approval by RCE			
Fence, Tie & Tension Wire		4154.05			Visual Approval by RCE			
Fence, Chain Link Fabric	454.10	4154.03	1/source/yr		Approved Source/Certification		Project	
Fence, Chain Link Fittings		4154.11			Visual Approval by RCE			
Fence, Chain Link Posts, Braces, & Rails	454.10	4154.10	1/source/yr		Approved Source/Certification		Project	
Fence, Field Fence Fabric		4154.02			Visual Approval by RCE			
Fence, Gate		4154.12			Visual Approval by RCE			
Fence, Misc. Hardware					Visual Approval by RCE			

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Fence, Orange Mesh Safety	488.03	4188.03			Approved Source			
Fence, Silt-See Erosion Control								
Fence, Staples		4154.06			Visual Approval by RCE			
Fence, Steel Line Posts		4154.09			Visual Approval by RCE			
Fence, Wood Fence Post	462	4154.07			Approved Source/Certification	D		
Fertilizer-See Erosion Control								
Fly Ash	491.17	4108	10 lbs.	DME	Approved Source/Certification	D	Project Source	Verification on paving only
Galvanized Items		4100.07		DME	Test Report by District Materials			
GGBFS	491.14	4108.02			Approved Source/Certification	D	Source Project	
Grating (Aluminum)		4187.01, A			Approved Shop Drawing & Fabrication Report			
Grout, Hydraulic Cement	491.13				Approved Source			
Grout, Polymer	491.11				Approved Source			
Guardrail, Box-beam Median Barrier		4155.07			Approved Shop Drawing & Fabrication Report			
Guardrail, Cable		4155.03	6 ft.	DME	Test Report by Central Lab			
Guardrail, High Tension Cable	455.01	2505.03, B			Approved Source/Certification	D		
Guardrail, Formed Steel Beam	455.02	4155.02			Approved Source			

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Guardrail, Steel Posts		4155.05			Mill Test Report	A		
Guardrail, Wood Posts	462	4155.04			Approved Source/Certification	A		
Iron Castings, Utility Access Covers, etc.	453.04	4153.04			Certification & Proper Identification Imprint	A		
Iron Castings, Utility Access Adjustment Rings	449.05				Approved Source/Certification	D		
Iron Bridge Rockers		4153.04			Approved Shop Drawing & Fabrication Report			
Joint Filler, Flexible Foam-Type CF & EF Joints	436.05	4136.03, B 4136.03, D			Approved Source			
Joint Filler, Type E Joint	436.03	4136.03, A			Approved Source			
Joint Filler, Bituminous	436.03	4136.03, A			Approved Source			
Joint Sealer for Concrete Sewer Pipes	491.09	4149.04,D,2			Approved Source			
Joint Sealer, Elastomeric (Neoprene)	436.02	4136.03			Approved Source			
Joint Sealer, Poured	436.01	4136.02, A			Approved Source			
Keyway		4191.01, A			Visual Approval by RCE			
Lighting Material, Aluminum Poles	557	4185.02, F			Approved Shop Drawing/Approved Source/Certification	D		
Lighting Material, Circuit Test		2523.03, U		Contractor	Test Report (Contractor) Form #820928			
Lighting Material, Connectors		4185.11			Approved Catalog Cut			
Lighting Material, Contactors		4185.05			Approved Catalog Cut			

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Lighting Material, Control Cabinet		4185.07			Approved Shop Drawing & Catalog Cut			
Lighting Material, Conduit & Fittings, Plastic		4185.10, D	4'-Plastic	DME	Test Report			
Lighting Material, Conduit & Fittings, Steel	485.10	4185.10, B			Approved Source			
Lighting Material, Ground Rods & Clamps		4185.04			Visual			
Lighting Material, Handholes	445	4185.08			Approved Source, Fabricator's trade mark, Date of Manufacture, Certified stamp, Certification	D	Source	
Lighting Material, Junction Boxes		4185.09			Approved Catalog Cut			
Lighting Material, Lighting Tower	557	2522.03, E			Approved Shop Drawing/Approved Source/Certification	D		
Lighting Material, Lowering Device		2522.03, G			Approved Shop Drawing & Fabrication Report			
Lighting Material, Luminaries		4185.03			Approved Catalog Cut			
Lighting Material, Photoelectric Control		4185.06			Approved Catalog Cut			
Lighting Material, Sealant for Traffic Loop Detectors	491.18				Approved Source			
Lighting Material, Steel Poles	557	4185.02, E			Approved Shop Drawing/Approved Source/Certification	D		

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Lighting Material, Underground Warning Tape		2523.03, E			Visual Approval by RCE			
Lighting Material, Wire & Cable		4185.12			Approved Catalog Cut & Certification	D		DME may obtain verification samples
Lighting Material, Wood Poles	462	4185.02, G			Approved Source/Certification	D		
Lighting Material, Fasteners for Poles	453.09	4185.02, B	1 each type	DME	Test Report & Approved Shop Drawing			
Lighting Material, Mastarms	557	4185.02, C			Approved Shop Drawing/Approved Source/Certification	D		
Lighting Material, Slip Base	557	4185.02, B			Approved Shop Drawing/Approved Source/Certification	D		
Lighting Material, Transformer Base	557	4185.02, D			Approved Shop Drawing/Approved Source/Certification	D		
Markers (reflective) for Guardrail & Concrete Barrier Rail	486.08	4186.12			Approved Source			
Markers, Raised Pavement	483.07	2527.02, D,5			Approved Source			
Mastarms-See Lighting Materials								
Paint, Epoxy Aluminum	482.04				Approved Source			
Paint, Traffic-VOC-Compliant Solvent-borne	483.03	4183.02			Approved Source			
Paint, Traffic Waterborne	483.03	4183.03			Approved Source		Subcontr.	

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Paint, Waterborne Acrylic Finish (Bridge Paint)	482.05	4182.03			Approved Source/Certification	D		
Paint, Zinc-rich Epoxy	482.02	4182.02			Approved Source/Certification	D		
Paint, Zinc-silicate Solvent-borne	482.05	4182.02			Approved Source/Certification	D		
Patch Material, Rapid-set Concrete	491.20				Approved Source			
Pedestrian Bridge, Pre-engineered	557				Approved Source/Approved Shop Drawing			
Piling, Concrete	570	4166			Approved Source, Fabricator's trade mark, Date of Manufacture, DOT Inspection stamp, Fabrication Report		Source	
Piling, Steel	467	4167			Approved Source/Mill Certification	A	Project	
Pipe, PVC Sewer	443, 446	4149.02			Approved Source/Certification	D	Source	
Pipe, Clay Sewer		4149.02, A	2 each	DME	Test Report			
Pipe, Concrete	445	4145			Approved Fabricator, Fabricator's trade mark, Date of Manufacture, Certified stamp, Certification	D	Source	
Pipe, Corrugated Aluminized	441	4141			Approved Source/Certification			
Pipe, Corrugated Polyethylene 3-10 in.	443	4146.02 4143.01			Approved Source		Source	
Pipe, Corrugated Polyethylene 12-36 in.	446	4146.02			Approved Source/Certification	D	Source	

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Pipe, Corrugated Steel	441	4141			Approved Source/Certification	D	Fabricator	
Pipe, Ductile Iron Sewer		4149.02			Certification	A		
Pipe, Polyethylene Sewer	443, 446	4146.03			Approved Source/Certification	D	Source	
Pipe, Rodent Guard for PE Pipe	443.01	4143.01, B			Approved Source			
Pipe, Rodent Guard for CMP Pipe	443.01	4143.01, B			Approved Source			
Pipe, Concrete Subdrain Tile	448	4148			Approved Source/Certification	C	Source	
Pipe, Corrugated Metal Subdrain Outlet	441	4143.01, B			Approved Source/Certification	D	Fabricator	
Pipe, Corrugated Polyethylene Subdrain	443	4143.01, B			Approved Source		Source	
Pipe, Welded Steel for Bridge Rail (See Railing, Bridge)								
Pipe, Horizontal Subdrain	443	4143.01, A			Approved Source		Source	
Plant Material, Fertilizer	469.03	4170.09, B			Approved Source			
Plant Material, Mulch	470	4170.09, D		RCE	Field Review Report			
Plant Materials, Plants	470	4170.01-4170.08		Roadside Development	Field Review Report			Rpt. Issued-Roadside Development
Portland Cement Concrete Premix Pack	447				Approved Source/Certification	C	Source	
Portland Cement, All Types	401	4101	10 lbs.	DME	Approved Source/Certification	D	Project Source	

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Railing, Bridge		4153.05			Approved Source/Approved Shop Drawing/Fabrication Report			
Reflective Sheeting-See Signing Material								
Release Agent	491.15				Approved Source			
Sealant, Traffic Loop-See Lighting Material								
Seed-See Erosion Control								
Signing Material, Delineator Posts		4186.10, C	1 each supplier	DME	Test Report			
Signing Material, Delineators	486.07	4186.11			Approved Source		Project	
Signing Material, Finished Sign	486	4186			Fabrication Report/Approved Source/Certification	D	Source	
Signing Material, Fasteners		4186.09			Fabrication Report			
Signing Material, Reflective	486.03	4186.03			Approved Source		Source	
Signing Material, Sign Panels		4186.02			Approved Shop Drawing & Fabrication Report			
Signing Material, Sign Support Structures	557	4187			Approved Source/Approved Shop Drawing/Fabrication Report			
Signing Material, Stainless Steel Fasteners	453.07		1 per size per proj.	DME	Approved Source/Mill Certification	A	Project	
Signing Material, Steel Posts		4186.10			Approved Shop Drawing & Fabrication Report			

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Signing Material, Wood Posts	462	4186.10			Approved Source/Certification	A		
Signing Material, Galvanized Items		4100.07			Test Report by District Materials			
Sod-See Erosion Control								
Steel Castings		4153.03			Approved Source/Catalog Cut			
Steel Masonry Plates		4152.02			Mill Certification	A		
Steel Pipe, Welded		4153.05			Approved Shop Drawing & Fabrication Report			
Steel, Pins/Rollers, Cold Finished		4153.02			Approved Source/Catalog Cut			
Steel, Pins/Rollers, Forged		4153.01			Approved Source/Catalog Cut			
Steel Reinforcement, Basket Assemblies	451.03B	4151.02			Approved Source/Certification	D		
Steel Reinforcement, Epoxy-coated	451.03B	4151.03, C	6 ft.	DME	Approved Source/Mill Certifications & Epoxy Certification/Test Report	A	Project	Test sample should be 3 ft. away from end of the bar.
Steel Reinforcement, Epoxy-coated Tie Bars	451.03B	4151.02, A	1 per project per year		Approved Source/Certification	D	Project	
Steel Reinforcement, Epoxy-coated Dowels	451.03B	4151.02, B	1 per project per year		Approved Source/Certification	D	Project	
Steel Reinforcement, Galvanized	451	4151.03, B	3 ft.	DME	Mill Certifications & Test Report for Galvanizing	A	Project	
Steel Reinforcement, Uncoated	451	4151	*6 ft. of most common	DME	Approved Source/Mill Certification	A	Project	*Proj. quant. under 45T Cert. Only, 45T+ 1 samp.

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Steel Reinforcement, Wire Mesh	451	4151.04	2 ft. x 2 ft.	DME	Approved Supplier or Distributor. Steel Reinforcement/Certification	A	Supplier	1 sample per source per year
Steel Mechanical Splicers for Reinforcement	451				Approved Source/Mill Certification/Epoxy Certification		Project	Need: Certification Statement, Project #, Quantity, Heat #
Steel Structural	557, 561 to 565	2408 4152			Approved Source/Approved Shop Drawing/Fabrication Report/Mill Certifications	A		
Step Irons for Utility Access		4149.04, L			Fabrication Report			
Structural Items, Other					Approved Shop Drawing & Fabrication Report			
Structural Plate (Arches)	444	4144	Visual	RCE	Approved Source/Certification Statement	C		
Studs, Shear	453.10				Approved Source/Certification	A		
Surface Finish, Special	491.10	2403.03, P			Approved Source			
Tape, Pavement Marking	483.06	2527.02, D			Approved Source			
Torque Calibration Machine (skidmore)		2408.03, S	Calibrate every 6 mo.	CTRL	Test Report			
Torque Wrench		2408.03, S	Calibrate every 6 mo.	CTRL	Test Report			
Traffic Signalization, Electrical Tests		2525.03, E 2525.03, H		Contractor	Test Report (Contractor) Form #820928			
Water		4102	1 qt. per source	DME	Test Report or City Water Supply			

Sampling & Testing Guide-Minimum Frequency

April 19, 2011
Supersedes April 20, 2010

SUPPLEMENTAL GUIDE – BASIS OF ACCEPTANCE

Matls. IM 204
Appendix Z

Material	IM	Spec.	Sample Size	Sampled By	Basis of Acceptance	Cert. Type	Verification	Other Details
Wire & Cable-See Lighting Material								
Wood, Hardware for Timber Structure	462	4153.07	1 ea. type		Test Report			
Wood, Timber Piles	462	4165			Approved Source/Certification	A		Charge number on butt ends
Wood, Treated Posts	462	4164			Approved Source/Certification	A		
Wood, Treated Timber & Lumber	462	4162			Approved Source/Certification	A		
Wood, Untreated Timber & Lumber	462	4162	Visual	RCE	Quality grad mark or certification of grade on items requiring grade			