

## REVISIONS TO MATERIALS SAMPLING GUIDE January 1, 2017 Edition

Section 2, Asphaltic Materials			
Page 2-2, Material 2) Asphalt, Emulsified Anionic and Cationic			
		Field Personnel	
			Removed – Supplier
Page 2-3, Material 3) Performance Graded Binder			
		Field Personnel	
			<p>Removed – Using one two-quart can, submit a two quart sample for each lot (5,000 tons) or final portion thereof, of each asphaltic concrete type produced.</p> <p>Sample to be received no later than 10 days from sampling in the central laboratory.</p> <p>(This sampling frequency must be followed for each grade and source of PG Binder used on the project).</p> <p>The sample information must be entered in SiteManager.</p> <p>The following information must be included on the SiteManager sample tag: sample id number, project number, contract number, project manager, binder grade, date sampled, refinery, type, and lot number of asphaltic concrete.</p> <p>Sample to be submitted to the central laboratory.</p>
			<p>Added – Using one two-quart can, submit a two-quart sample for each lot (200 liquid binder tons), or final portion thereof, of each performance grade of binder</p> <p>Sample to be received in the central laboratory no later than 10 days from sampling.</p> <p>The sample information must be entered in SiteManager.</p> <p>The following information must be included on the SiteManager sample submission template: sample ID number, project number, contract number, project manager, binder grade, date sampled, refinery, type of asphalt, binder lot, and any additives</p>
Section 3, Asphaltic Concrete			
Page 3-1, Material 1) Asphaltic Concrete Type SPH, SPR; Air Void Binder %, FAA, CAA, Gradation			
		Q.C. Sampling and Testing by Contractor	
			Removed – See specifications, supplemental specifications, and/or project special provisions. (Normally one per 1,000 ton sub-lot).

			Added – Normally one per 1,000 ton sub-lot (or 500 ton sub-lot if the days' production is less than or equal to 1,500 tons, when specified).
		Field Personnel	
			Added – 500 or
		Branch Lab	
			Added – 500 or
	Page 3-1, Material 2) Asphaltic Concrete Type SPS		
		Q.C. Sampling and Testing by Contractor	
			Removed – See specifications, supplemental specifications, and/or project special provisions. (Normally one per 1,000 ton sub-lot).
			Added – Normally one per 1,000 ton sub-lot (or 500 ton sub-lot if the days' production is less than or equal to 1,500 tons, when specified).
		Field Personnel	
			Added – 500 or
		Branch Lab	
			Added – 500 or
	Page 3-1, Material 3) Asphaltic Concrete Types OGFC, OGFC, GGCRM, LC, RLC, SLX, SRM		
		Q.C. Sampling and Testing by Contractor	
			Removed – See specifications, supplemental specifications, and/or project special provisions. (Normally one per 1,000 ton sub-lot).
			Added – Normally one per 1,000 ton sub-lot (or 500 ton sub-lot if the days' production is less than or equal to 1,500 tons, when specified).
		Field Personnel	
			Added – 500 or
		Branch Lab	
			Added – 500 or
	Page 3-1, Material 4) Asphaltic Concrete Mixtures		
		Q.C. Sampling and Testing by Contractor	
			Removed – See specifications, supplemental specifications, and/or project special provisions. (Normally one per 1,000 ton sub-lot).
			Added – Normally one per 1,000 ton sub-lot (or 500 ton sub-lot if the days' production is less than or equal to 1,500 tons, when specified).
Section 4, Asphaltic Concrete Materials			
	Page 4-1, Material 1) Mineral Aggregate (Gravel, Sand, Sand-Gravel)		
		Field Personnel	
			Added – when
		Central Lab	

			Removed – One 60-pound sample for quality tests for source approval, if so designated on the DR Form 324 “Source of Aggregates To Be Used” when changes in quality or characteristics occur. No other samples for quality or verification are needed.
			Added - One 60-pound sample for quality tests for source approval, if so designated by the Aggregate Laboratory Manager. No other samples for quality or verification are needed.
Section 6, Gravel and Crushed Rock for Surfacing			
Page 6-1, Material 1) Gravel For Surfacing			
		Field Personnel	
			Added – when
		Central Lab	
			Removed – One 60-pound sample for quality tests first 2,500 ton if so designated DR FORM 324 “Source Of Aggregates To Be Used.”  One 10-pound sample for gradation test each 2,500 ton or fraction thereof (Duplicate of sample tested in the field)  NOTE: A central laboratory sample is required on all projects. If the DR Form 324 – “Source of Aggregates To Be Used” form designates that a 60-pound sample is not needed field personnel must still submit a 10-pound sample.
			Added – One 60-pound sample for quality tests from the first 2,500 ton, if so designated by the Aggregate Laboratory Manager.  One 10-pound sample for gradation test each 2,500 ton or fraction thereof (Duplicate of sample tested in the field)  NOTE: A central laboratory sample is required on all projects. If the Aggregate Laboratory Manager determines a 60-pound quality sample is not needed, field personnel must still submit a 10-pound sample.
Section 7, Mineral Aggregate for Armor Coat			
Page 7-1, Material 1) Mineral Aggregate for Armor Coat (Gravel)			
		Field Personnel	
			Added – when
		Central Lab	
			Removed – One 60-pound sample for quality tests first 2,500 ton if so designated DR FORM 324 “Source Of Aggregates To Be Used.”

			<p>One 10-pound sample for gradation test each 2,500 ton or fraction thereof (Duplicate of sample tested in the field)</p> <p>NOTE: A central laboratory sample is required on all projects. If the DR Form 324 – “Source of Aggregates To Be Used” form designates that a 60-pound sample is not needed field personnel must still submit a 10-pound sample.</p>
			<p>Added – One 60-pound sample for quality tests from the first 2,500 ton, if so designated by the Aggregate Laboratory Manager.</p> <p>One 10-pound sample for gradation test each 2,500 ton or fraction thereof (Duplicate of sample tested in the field)</p> <p>NOTE: A central laboratory sample is required on all projects. If the Aggregate Laboratory Manager determines a 60-pound quality sample is not needed, field personnel must still submit a 10-pound sample.</p>
Page 7-2, Material 2) Chip Seal (Limestone, Dolomite, Granite, Quartzite)			
		Field Personnel	
			Added – when
		Central Lab	
			<p>Removed – One 60-pound sample for quality tests first 1,000 cubic yards. If so designated on the DR FORM 324 “Source of Aggregates to Be Used”.</p> <p>One 10-pound sample for gradation tests each 1,500 cubic yards or fraction thereof (Duplicate of sample tested in the field).</p>
			<p>Added – One 60-pound sample for quality tests first 1,000 cubic yards. If so designated by the Aggregate Laboratory Manager.</p> <p>One 10-pound sample for gradation tests each 1,500 cubic yards or fraction thereof (Duplicate of sample tested in the field).</p>
Page 7-3, Material 3) Lightweight Aggregate			
		Field Personnel	
			Added – when
		Central Lab	
			<p>Removed – One 60-pound sample for quality tests first 1,000 cubic yards. If so designated on the DR FORM 324 “Source of Aggregates to Be Used”.</p> <p>One 10-pound sample for gradation tests each 1,500 cubic yards or fraction thereof (Duplicate of sample tested in the field).</p>

			NOTE: A central laboratory sample is required on all projects. If the DR Form 324 – “Source of Aggregates To Be Used” form designates that a 60-pound sample is not needed field personnel must still submit a 10-pound sample.
			Added – One 60-pound sample for quality tests first 1,000 cubic yards. If so designated by the Aggregate Laboratory Manager.  One 10-pound sample for gradation tests each 1,500 cubic yards or fraction thereof (Duplicate of sample tested in the field).  NOTE: A central laboratory sample is required on all projects. If the Aggregate Laboratory manager determines a 60-pound quality sample is not needed field personnel, must still submit a 10-pound sample.
Section 13, Granular Base, Granular Fill, Granular Backfill, Sand Blanket, and MSE Walls			
Page 13-2, Material 2) Mineral Aggregates (Commercial Production)			
		Field Personnel	
			Added – when
		Central Lab	
			Removed – One 60-pound sample for quality tests first 1,000 cubic yards if so designated on DR FORM 324 “Source of Aggregates to be Used”, or when changes in quality or characteristics occur.  One 10-pound sample for gradation tests each 1,500 cubic yards or fraction thereof (Duplicate of sample tested in the field).
			Added – One 60-pound sample for quality tests from the first 1,000 cubic yards, if so designated by the Aggregate Laboratory Manager or when changes in quality or characteristics occur  One 10-pound sample for gradation tests each 1,500 cubic yards or fraction thereof (Duplicate of sample tested in the field).
Page 13-3, Material 3) Coarse Sand			
		Field Personnel	
			Added – when
		Central Lab	
			Removed – One 60-pound sample for quality tests first 1,000 cubic yards if so designated on DR FORM 324 “Source of Aggregates to be Used”, or when changes in quality or characteristics occur.  One 10-pound sample for gradation tests each 1,500 cubic yards or fraction thereof (Duplicate of sample tested in the field).
			Added – One 60-pound sample for quality tests from the first 1,000 cubic yards, if so designated by the Aggregate Laboratory Manager or when changes in quality or characteristics occur

			One 10-pound sample for gradation tests each 1,500 cubic yards or fraction thereof (Duplicate of sample tested in the field).
Page 13-8, Material 8) Granular Backfill for Structures, Quality & Gradation			
		Field Personnel	
			Added – when
		Central Lab	
			Removed – One 60-pound sample for quality tests first 1,000 cubic yards if so designated on DR FORM 324 “Source of Aggregates to be Used”, or when changes in quality or characteristics occur.
			One 10-pound sample for gradation tests each 1,500 cubic yards or fraction thereof (Duplicate of sample tested in the field).
			Added – One 60-pound sample for quality tests from the first 1,000 cubic yards, if so designated by the Aggregate Laboratory Manager or when changes in quality or characteristics occur
			One 10-pound sample for gradation tests each 1,500 cubic yards or fraction thereof (Duplicate of sample tested in the field).
Section 15, Portland Cement Concrete For Pavement, Base Course, Base Course Widening, Pavement Patching			
Page 15-1, Material 2) Class A, B, and C Aggregates			
		Field Personnel	
			Removed – Project personnel will submit DR FORM 324, Source of Aggregates to be Used, to the central laboratory
			Added – Project personnel will supply a 60-pound sample for central laboratory.
Section 16, Portland Cement Concrete for Structures, Culverts, and Miscellaneous Construction			
Page 16-1, Material 2) Class A, B, and C Aggregates			
		Field Personnel	
			Removed – Project personnel will submit DR FORM 324, Source of Aggregates to be Used, to the central laboratory
			Added – Project personnel will supply a 60-pound sample for central laboratory.
Section 20, Bridge Materials			
Page 20-5, Material 29) Epoxy Polymer Overlay, A) Type III Epoxy			
		Sample Required	
			Removed – -----
			Added – No
		Approved Products List	
			Removed – No

			Added – Yes
		Manufacturer Certified Tests Required	
			Removed – Yes
			Added – No
		Manufacturer Certification of Compliance Required	
			Removed – Yes
			Added – No
Section 25, Miscellaneous Materials			
	Page 25-2, Material 14) Right of Way Markers		
		Sample Required	
			Removed – on DR Form 247
	Page 25-3, Material 20) Concrete Face Panels		
		Item or Group	
			Added – Concrete Face Panels
		Sample Required	
			Added – No
		Approved Products List	
			Added – No
		Manufacturer Certified Tests Required	
			Added – No
		Manufacturer Certification of Compliance Required	
			Added – Yes
		Location of Additional Information	
			Added – -----
	Page 25-4, Material 21) Culvert Sandfill		
		Field Personnel	
			Added – when
		Central Lab	
			Removed – Project personnel will submit DR FORM 324, Source of Aggregates to be Used, to the central laboratory
			Added – Project personnel will supply a 60-pound sample for central laboratory.
Section 27 – Notes			
	Page 27-3, Note 4) Quality Tests of Aggregates		
			Removed – In order to reduce the duplication of quality tests of aggregates from the same source by the central laboratory, it is requested that DR Form 324, Source of Aggregates to be Used, (required for quality tests), be completed by the project manager for each project or purchase order. After recording

			<p>the necessary information, this form should be forwarded to the Materials &amp; Research Division prior to actual production of any aggregate.</p> <p>After review by the Materials &amp; Research Division, this form will be returned indicating if it will be necessary to submit a 60-pound sample to the central laboratory for quality tests or if the quality tests will be waived.</p> <p>Quality test results obtained by the central laboratory for aggregates from the various sources throughout the state will be kept on file in the central laboratory.</p> <p>For verification testing for sand-gravel aggregate, the sand equivalent test is required for all dry pits.</p>
			<p>Added – In order to reduce the duplication of quality tests of aggregates from the same source by the central laboratory, the Aggregate Laboratory Manager will request sample material.</p> <p>For verification testing, a 10-lb sample will be required on all sand-gravel aggregates. The sand equivalent test is required on all dry pit materials.</p>
Page 27-9, Note 27) High Friction Surface Treatment			
			<p>Removed – These materials are accepted on the basis of Manufacturer Certified Tests and Certificates of Compliance.</p> <p>Aggregate:</p> <ul style="list-style-type: none"> <li>• The Certificate of Compliance must cite the Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>) content for calcined bauxite.</li> </ul> <p>Polymer Binder Resin:</p> <ul style="list-style-type: none"> <li>• The Manufacturer Certified Tests will require independent laboratory tests meeting the conditions of Table 1, Physical Requirements of the Polymer Binder Resin System; found in the special provisions.</li> <li>• The Certificate of Compliance must include product, lot number, and expiration date.</li> <li>• The material properties shall meet the conditions of Table 1, Physical Requirements of the Polymer Binder Resin System; found in the special provisions.</li> <li>• The Certificate of Compliance must be signed by a company representative.</li> <li>• Fourier Transform Infrared Spectrophotometry (FTIR) spectra documentation is required from the manufacturer. <ul style="list-style-type: none"> <li>○ Materials &amp; Research Division will perform qualitative testing on epoxy material provided by field personnel.</li> </ul> </li> </ul>
			<p>Added – These materials are accepted on the basis of Manufacturer Certified Tests and Certificates of Compliance.</p> <p>Aggregate:</p> <ul style="list-style-type: none"> <li>• The Certificate of Compliance must cite the Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>) content for calcined bauxite.</li> </ul> <p>Polymer Binder Resin:</p> <ul style="list-style-type: none"> <li>• The Manufacturer Certified Tests will require independent laboratory tests meeting the physical requirements of the polymer binder resin system found in the special provisions.</li> <li>• The Certificate of Compliance must include product, lot number, and expiration date.</li> <li>• The material properties shall meet the physical requirements of the polymer binder resin system found in the special provisions.</li> </ul> <p>The Certificate of Compliance must be signed by a company representative.</p>