

REVISIONS TO MATERIALS SAMPLING GUIDE July 1, 2016 Edition

Section 3, Asphaltic Concrete	
Page 3-1, Material 1) Type SPH, SPR; Air Void, Binder %, FAA, CAA, Gradation	
	Q.C. Sampling and Testing by Contractor
	Removed – 750
	Added – 1,000
	Field Personnel
	Removed – 750
	Added – 1,000
	Branch Lab
	Removed – 750
	Added – 1,000
	Removed – 3,750
	Added – 5,000
Page 3-1, Material 2, Asphaltic Concrete Type SPS	
	Q.C. Sampling and Testing by Contractor
	Removed – 750
	Added – 1,000
	Field Personnel
	Removed – 750
	Added – 1,000
	Branch Lab
	Removed – 750
	Added – 1,000
	Removed – 3,750
	Added – 5,000
Page 3-1, Material 3) Asphaltic Concrete Types OGFC CRM, OGFC, GGCRM, LC, RLC, SLX, SRM	
	Q.C. Sampling and Testing by Contractor
	Removed – 750
	Added – 1,000
	Field Personnel
	Removed – 750
	Added – 1,000
	Branch Lab
	Removed – 750
	Added – 1,000
	Removed – 3,750

			Added – 5,000
	Page 3-1, Material 4) Asphaltic Concrete Mixtures		
	Q.C. Sampling and Testing by Contractor		
			Removed – 750
			Added – 1,000
Section 9, Grading			
	Page 9-2, Material 1) Embankment (Cohesive and Granular), Gradation (if specified)		
	Branch Lab		
			Removed – One sample every 500 cubic yards or fraction thereof for each lift of fill depending on the soil type, or as need is indicated by changes in soil material. In cases of short sections or structure backfill, each section should be represented by tests to adequately represent the material in the fill. Project personnel to supply the sample needed to perform the testing shown under the branch/central laboratory column.
			Added – One 10- pound sample for gradation each 2,500 cubic yards or fraction thereof (Duplicate of sample tested in the field).
	Central Lab		
			Removed – One 10-pound sample for verification each mile or in cases of short sections, or structure backfill, the number of samples is to be increased to adequately correlate the samples taken in the field. (Duplicate of sample taken in the field) The sample can be submitted to the central laboratory or branch laboratory by project personnel.
			Added – One 10-pound sample for gradation each 2,500 cubic yards or fraction thereof (Duplicate of sample tested in the field).
Section 12, Foundation Course (Crushed Concrete, Aggregate-D, and Bituminous)			
	Page 12-1, Material 1) Foundation Course		
	Material		
			Re-ordered Foundation course from Item #6 to Item #1
	Page 12-2, Material 2) Crushed Concrete Foundation Course		
	Material		
			Re-ordered Foundation course from Item #1 to Item #2
	Page 12-2 Material 3) All Aggregates and Soil Binder		
	Material		
			Re-ordered Foundation course from Item #2 to Item #3
	Page 12-3, Material 4) Bituminous Foundation Course		
	Material		
			Re-ordered Foundation course from Item #3 to Item #4
	Page 12-3, Material 5) Aggregate Foundation Course – D		
	Material		

			Re-ordered Foundation course from Item #4 to Item #5
	Page 12-3, Material 6) Soil Binder		
	Material		
			Re-ordered Foundation course from Item #5 to Item #6
Section 13, Granular Base, Granular Fill, Granular Backfill, Sand Blanket, and MSE Walls			
	Page 13-2, Material 2) Mineral Aggregates (Commercial Production)		
	Field Personnel		
			Removed -- One sample for gradation each 300 cubic yards either at the source or on the project. (The recommended sample size is 25 pounds). A minimum of one check sample for each 1000 cubic yards or fraction thereof shall be taken at the point material is incorporated in the work or at the point the materials is to be mixed with other materials. The gradation sample required may also serve as this acceptance and job control sample if it is taken at the point indicated above. Additional samples should be taken at the discretion of the project manager to confirm his judgment that segregation, degradation or contamination of the material has not occurred prior to incorporation into the work.
	Central Lab		
			Removed – 1,000
			Added – 1,500
	Page 13-3, Material 3) Coarse Sand		
	Central Lab		
			Removed – 1,000
			Added – 1,500
	Page 13-8, Material 8) Granular Backfill for Structures, Quality & Gradation		
	Field Personnel		
			Removed – 250
			Added – 500
	Central Lab		
			Removed – 750
			Added – 2,500
	Page 13-9, Material 9) Granular Subdrains		
	Central Lab		
			Removed – 750
			Added – 1,250
	Page 13-9, Material 10) Granular Backfill for Pipe Underdrain		
	Central Lab		
			Removed – 750
			Added – 1,250
	Page 13-10, Material 11) Select and Random Granular Backfill for MSE Walls; Quality, Gradation, Compaction, & Chemical,		

	Friction Angle
	Q.C. Sampling and Testing by Contractor
	Removed – Compliance
	Added -- Test
	Removed – Compliance
	Added – Tests
Section 15, Portland Cement Concrete for Pavement, Base Course, and Pavement Patching	
	Page 15-1, Material 1) Class E and F Aggregates
	Central Lab
	Added – 30-pound
	Removed – 3,000
	Added – 6,000
	Page 15-1, Material 2) Class A, B, and C Aggregates
	Central Lab
	Added – 15-pound contractor’s split verification
	Page 15-1, Material 3) Class R Aggregate
	Central Lab
	Added – 30-pound
	Page 15-6, Material 31) Resin Adhesives
	Sample Required
	Added – -----
	Approved Products List
	Added – Yes
	Manufacturer Certified Tests Required
	Added – No
	Manufacturer Certification of Compliance Required
	Added – No
	Location of Additional Information
	Added – -----
	Page 15-6, Material 32) Non-shrink Grout
	Sample Required
	Added – -----
	Approved Products List
	Added – Yes
	Manufacturer Certified Tests Required
	Added – No
	Manufacturer Certification of Compliance Required

			Added – No
		Location of Additional Information	
			Added – - - - - - - - - -
Section 16, Portland Cement Concrete for Structures, Culverts, and Miscellaneous Construction			
	Page 16-1, Material 1) Class E and F Aggregates		
	Central Lab		
			Added – 30-pound
			Removed – 3,000
			Added – 6,000
	Page 16-1, Material 2) Class A, B, and C Aggregates		
	Central Lab		
			Added – 15-pound contractor’s split verification
	Page 16-1, Material 3) Class R Aggregate		
	Central Lab		
			Added – 30-pound
	Page 16-6, Material 25) Resin Adhesives		
	Sample Required		
			Added – - - - - - - - - -
	Approved Products List		
			Added – Yes
	Manufacturer Certified Tests Required		
			Added – No
	Manufacturer Certification of Compliance Required		
			Added – No
	Location of Additional Information		
			Added – - - - - - - - - -
	Page 16-6, Material 32) Non-shrink Grout		
	Sample Required		
			Added – - - - - - - - - -
	Approved Products List		
			Added – Yes
	Manufacturer Certified Tests Required		
			Added – No
	Manufacturer Certification of Compliance Required		
			Added – No
	Location of Additional Information		
			Added – - - - - - - - - -

Section 19, Culvert Pipe, Drain, Tile, Sewer Pipe, Slope Drains and Related Materials			
	Page 19-2, Material 3) Sewer Pipe, B) Plastic		
	Manufacturer Certified Tests Required		
	Removed – No		
	Added – Yes		
Section 20, Bridge Materials			
	Page 20-5, Material 29) Epoxy Polymer Overlay, B) Crushed Siliceous Gravel		
	Sample Required		
	Removed -- Verification		
	Added -- Quality		
	Removed – Project Acceptance		
	Added – Gradation		
	Page 20-5, Material 30) Cold Liquid-Applied Membrane		
	Sample Required		
	Added – -----		
	Approved Products List		
	Added – No		
	Manufacturer Certified Tests Required		
	Added – Yes		
	Manufacturer Certification of Compliance Required		
	Added – No		
	Location of Additional Information		
	Added – -----		
	Page 20-5, Material 31) Cold Liquid-Applied Membrane – Aggregate		
	Sample Required		
	Added -- Quality: Yes – 60-pound project sample for central laboratory. Gradation: Yes – 10-pound sample for field testing.		
	Approved Products List		
	Added – No		
	Manufacturer Certified Tests Required		
	Added – No		
	Manufacturer Certification of Compliance Required		
	Added – No		
	Location of Additional Information		
	Added – -----		
	Page 20-5, Material 32) Preformed Waterproofing Membrane, Type 1 and 2		

	Sample Required
	Added -----
	Approved Products List
	Added – Yes
	Manufacturer Certified Tests Required
	Added – No
	Manufacturer Certification of Compliance Required
	Added – No
	Location of Additional Information
	Added -----
Page 20-5, Material 33) Wick Drain	
	Sample Required
	Added -----
	Approved Products List
	Added – Yes
	Manufacturer Certified Tests Required
	Added – No
	Manufacturer Certification of Compliance Required
	Added – No
	Location of Additional Information
	Added -----
Page 20-5, Material 34) PG Binder/Primer	
	Sample Required
	Added -----
	Approved Products List
	Added – No
	Manufacturer Certified Tests Required
	Added – No
	Manufacturer Certification of Compliance Required
	Added – Yes
	Location of Additional Information
	Added -----
Section 24, Roadside Development and Erosion Control	
Page 24-1, Material 9) Soil Amendment	
	Sample Required
	Added -----
	Approved Products List

		Added – Yes
	Manufacturer Certified Tests Required	
		Added – No
	Manufacturer Certification of Compliance Required	
		Added – No
	Location of Additional Information	
		Added – -----
	Page 24-1, Material 10) Soil Tackifier	
	Sample Required	
		Added – -----
	Approved Products List	
		Added – Yes
	Manufacturer Certified Tests Required	
		Added – No
	Manufacturer Certification of Compliance Required	
		Added – No
	Location of Additional Information	
		Added – -----
Section 27, Notes		
	Page 27-1, Note 1) Sampling and Testing Small Quantities of Non-critical Materials	
		Added – a. Mix Designs are not required for small quantities of non-critical items.
Section 28,		
	Page 28-A-7, Table A1 – Test Methods for Qualification of Sampling and Testing Personnel	
	Concrete Field Inspection/General Handling of Concrete	
		Removed – The Portland Concrete Paving Inspection (131122)
		Added – Portland Cement Paving Inspection (FHWA-NHI-131122)
		Added – FHWA-NHI : Consultants/Industry Certification will be completed online. This enrollment requires an NHI User ID and password. Follow these steps to sign up for and register completion of a session. 1. Log in to the individual NHI user account. 2. Use the course search engine to locate course number FHWA-NHI-131122, Portland Cement Concrete Paving Inspection – Web-Based. 3. To enroll, select ‘Add to Cart’. 4. When all course selections have been made, select ‘Checkout’. 5. Follow the checkout steps. Once the registration is completed, confirmation will be transmitted via email. a. If enrolled in web-based training, access is immediately avail-able via ‘My Training’.

