

REVISIONS TO MATERIALS SAMPLING GUIDE July 1, 2021 Edition

Section 2 – Asphaltic Materials			
1) Asphaltic Oils, Page 2-1			
		Field Personnel	
			Removed: When requested by the central laboratory, a sample consisting of one two-quart can from a tank car or truckload following receipt at project. Sample to be submitted no later than five days to the central laboratory.
			Added: Using a one-quart can, submit a one-quart sample per project, per type, for each supplier.
2) Asphalt, Emulsified Anionic and Cationic, Page 2-1			
		Field Personnel	
			Removed: all
			Added: each
			Removed: suppliers
			Added: supplier
			Removed: Sample will be shipped immediately as it must be tested within 14 days of <i>born on date</i> .
			Removed: after terminal delivery
3) Performance Graded Binder, Page 2-1			
		Field Personnel	
			Added: for each supplier
			Removed: Sample to be received in the central laboratory no later than 10 days from sampling. The sample information must be entered in AWP. The following information must be included on the AWP 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
Section 5 – Cold Mix Bituminous Surfacing and Base			
7) Cement Stabilized Bituminous, Page 5-3			
		Material	
			Added: Cement Stabilized Bituminous
		Type of Test	
			Added: Moisture Deflection/Moisture Density
		QC Sampling and Testing by Contractor	
			Added: -----
		Verification Sampling and Testing by NDOT, Field Personnel	
			Added: In-place moisture deflection or moisture density tests every 1,500 square yards or fraction thereof, or in cases of short sections, test to confirm the project manager's judgment on compliance with specification requirements.

		Verification Sampling and Testing by NDOT, Branch Lab	
		Added: -----	
		Verification Sampling and Testing by NDOT, Central Lab	
		Added: -----	
		Location of Additional Information	
		Added: -----	
		Type of Test	
		Added: Mix Design	
		QC Sampling and Testing by Contractor	
		Added: The contractor shall core asphalt surface and supply one 120-pound sample of asphalt and one 20-pound sample of underlying soil to perform the testing shown under the central laboratory column. The contractor will provide the samples to project personnel. Samples required 21 days prior to construction.	
		Verification Sampling and Testing by NDOT, Field Personnel	
		Project personnel will be present during asphalt coring of the roadway. Project personnel will transport the sampled material.	
		Verification Sampling and Testing by NDOT, Branch Lab	
		Added: -----	
		Verification Sampling and Testing by NDOT, Central Lab	
		Added: One 120-pound sample of asphalt and one 20-pound sample of underlying soil for verification testing and mix design.	
		Location of Additional Information	
		Added: Section 29, Policy 4	
		Type of Test	
		Added: Portland Cement	
		QC Sampling and Testing by Contractor	
		Added: -----	
		Verification Sampling and Testing by NDOT, Field Personnel	
		Added: -----	
		Verification Sampling and Testing by NDOT, Branch Lab	
		Added: -----	
		Verification Sampling and Testing by NDOT, Central Lab	
		Added: -----	
		Location of Additional Information	
		Added: Section 14, Portland Cement	
	8) Fly Ash Stabilized Bituminous, Page 5-4		
		Material	
		Added: Fly Ash Stabilized Bituminous	

		Type of Test	
			Added: Moisture Deflection/Moisture Density
		QC Sampling and Testing by Contractor	
			Added: -----
		Verification Sampling and Testing by NDOT, Field Personnel	
			Added: In-place moisture deflection or moisture density tests every 1,500 square yards or fraction thereof, or in cases of short sections, test to confirm the project manager's judgment on compliance with specification requirements
		Verification Sampling and Testing by NDOT, Branch Lab	
			Added: -----
		Verification Sampling and Testing by NDOT, Central Lab	
			Added: -----
		Location of Additional Information	
			Added: -----
		Type of Test	
			Added: Mix Design
		QC Sampling and Testing by Contractor	
			Added: The contractor shall core asphalt surface and supply one 120-pound sample of asphalt, one 20-pound sample of underlying soil, and one 20-pound sample of fly ash to perform the testing shown under the central laboratory column. The contractor will provide the samples to project personnel. Samples required 21 days prior to construction.
		Verification Sampling and Testing by NDOT, Field Personnel	
			Added: Project personnel will be present during asphalt coring of the roadway. Project personnel will transport the sampled material.
		Verification Sampling and Testing by NDOT, Branch Lab	
			Added: -----
		Verification Sampling and Testing by NDOT, Central Lab	
			Added: One 120-pound sample of asphalt, one 20-pound sample of underlying soil, and one 20-pound sample of fly ash for verification testing and mix design.
		Location of Additional Information	
			Added: -----
		Type of Test	
			Added: Fly Ash
		QC Sampling and Testing by Contractor	
			Added: -----
		Verification Sampling and Testing by NDOT, Field Personnel	
			Added: -----
		Verification Sampling and Testing by NDOT, Branch Lab	

		Added: -----
		Verification Sampling and Testing by NDOT, Central Lab
		Added: -----
		Location of Additional Information
		Added: Section 10, Fly Ash
	9) Cold-in-Place Recycled with Foam, Page 5-4	
		Material
		Added: Cold-in-Place Recycled with Foam
		Type of Test
		Added: Moisture Deflection/Moisture Density
		QC Sampling and Testing by Contractor
		Added: -----
		Verification Sampling and Testing by NDOT, Field Personnel
		Added: In-place moisture deflection or moisture density tests every 1,500 square yards or fraction thereof, or in cases of short sections, test to confirm the project manager's judgment on compliance with specification requirements.
		Verification Sampling and Testing by NDOT, Branch Lab
		Added: -----
		Verification Sampling and Testing by NDOT, Central Lab
		Added: -----
		Location of Additional Information
		Added: -----
		Type of Test
		Added: Mix Design
		QC Sampling and Testing by Contractor
		Added: Contractor shall core the roadway and supply 500 pounds of asphalt and a quantity of PG Binder from the project at a quantity recommended by the laboratory doing the testing. The laboratory shall be an independent laboratory familiar with Cold in Place recycling mix designs, it shall provide a mix design meeting the requirements of the specification.
		Verification Sampling and Testing by NDOT, Field Personnel
		Added: Project personnel will be present during asphalt coring of the roadway. Project personnel will transport the sampled material.
		Verification Sampling and Testing by NDOT, Branch Lab
		Added: -----
		Verification Sampling and Testing by NDOT, Central Lab
		Added: Binder acceptance samples to be tested in the central laboratory.
		Location of Additional Information
		Added: Section 2, Performance Graded Binder
	10) Hydrated Lime Slurry Stabilization, Page 5-5	

		Material	
			Added: Hydrated Lime Slurry Stabilization
		Type of Test	
			Added: Moisture Deflection/Moisture Density
		QC Sampling and Testing by Contractor	
			Added: -----
		Verification Sampling and Testing by NDOT, Field Personnel	
			Added: In-place moisture deflection or moisture density tests every 1,500 square yards or fraction thereof, or in cases of short sections, test to confirm the project manager's judgment on compliance with specification requirements.
		Verification Sampling and Testing by NDOT, Branch Lab	
			Added: -----
		Verification Sampling and Testing by NDOT, Central Lab	
			Added: -----
		Location of Additional Information	
			Added: -----
		Type of Test	
			Added: Mix Design
		QC Sampling and Testing by Contractor	
			Added: Contractor shall core the roadway and supply 500 pounds of asphalt and a quantity of asphalt emulsion and pebble lime from the project at a quantity recommended by the lab doing the testing The laboratory shall be an independent lab familiar with Hydrated Lime recycling mix designs, it shall provide a mix design meeting the requirements of the specification.
		Verification Sampling and Testing by NDOT, Field Personnel	
			Added: Project personnel will be present during asphalt coring of the roadway. Project personnel will transport the sampled material.
		Verification Sampling and Testing by NDOT, Branch Lab	
			Added: -----
		Verification Sampling and Testing by NDOT, Central Lab	
			Added: Emulsion acceptance samples to be tested in the central laboratory.
		Location of Additional Information	
			Added: Section 2, Asphalt, Emulsified Anionic and Cationic Section 10, Hydrated Lime or Pebble Quicklime
Section 10 – Compaction – Subgrade (Cohesive Soils)			
1) Subgrade Preparation and Stabilized Subgrade, Page 10-1			
		Material	
			Removed: Compaction and Subgrade Reconstruction
			Added: Preparation and Stabilized Subgrade

	2) Fly Ash, Page 10-2		
		Verification Sampling and Testing by NDOT, Field Personnel	
		Added: per supplier	
		Added: and a new sample for each construction season	
		Verification Sampling and Testing by NDOT, Central Lab	
		Added: and a new sample for each construction season	
	3) Subgrade Soil and Cementitious Material, Page 10-2		
		Material	
		Removed: and Fly Ash	
		Added: and Cementitious Material	
		Added: (fly ash sample is required/Portland cement sample submitted upon request)	
		Verification Sampling and Testing by NDOT, Field Personnel	
		Added: cementitious material	
		Added: (fly ash sample is required/Portland cement sample submitted upon request)	
		Verification Sampling and Testing by NDOT, Central Lab	
		Added: cementitious material	
		Added: (fly ash/Portland cement available at the central lab)	
	4) Hydrated Lime or Pebble Quicklime, Page 10-2		
		Verification Sampling and Testing by NDOT, Field Personnel	
		Added: per supplier	
		Added: and a new sample for each construction season	
		Verification Sampling and Testing by NDOT, Central Lab	
		Added: and a new sample for each construction season	
Section 14 – Portland Cement/Interground-Blended Cement			
	3) Silica Fume, Page 14-2		
		Removed: Silica Fume	
Section 15 – Portland Cement Concrete for Pavement, Base Course, and Pavement Patching			
	17) Epoxy Compounds, Page 15-4		
		Manufacturer Certification of Compliance Required	
		Removed: Yes	
		Added: No	
	18) Joint and Crack Sealing Fillers A) Cold Applied Type, Page 15-4		
		Sample Required	
		Removed: Yes – 1 five-pound sample from each lot unless shipped from tested and approved stock.	
		Manufacturer Certification of Tests Required	
		Removed: Yes, if not on the Approved Products List	

		Added: No
	18) Joint and Crack Sealing Fillers B) Hot Poured Type, Page 15-4	
	Sample Required	
	Removed: Yes – One sample per lot unless shipped from tested and approved stock.	
Section 16 – Portland Cement Concrete for Structures, Culverts, and Miscellaneous Construction		
	12) Shotcrete, Page 16-5	
	Item or Group	
	Removed: Mix Design	
	Sample Required	
	Removed: New mixes shall be tested and approved by the PCC Engineer prior to production	
	Manufacturer Certification of Tests Required	
	Removed: Yes	
	Added: No	
Section 19 – Culvert Pipe, Drain Tile, Sewer Pipe, Slope Drains, etc.		
	5) Related Materials, A) Sealing Compound for Concrete Pipe Joints, Page 19-2	
	Sample Required	
	Removed: Yes – One sample, four-feet long, unless shipped from tested and approved stock.	
	5) Related Materials, D) Sewer Pipe Gaskets, Page 19-2	
	Sample Required	
	Removed: Yes – One gasket from each lot or batch unless shipped from tested and approved stock.	
Section 20 – Bridge Materials		
	1) Aluminum Filled Resilient Sealing Compound, Page 20-1	
	Removed: Aluminum Filled Resilient Sealing Compound.	
	18) Joint and Crack Sealing Fillers A) Cold Applied Type, Page 20-4	
	Sample Required	
	Removed: Yes – 1 five-pound sample from each lot unless shipped from tested and approved stock.	
	Manufacturer Certification of Tests Required	
	Removed: Yes, if not on the Approved Products List	
	Added: No	
	18) Joint and Crack Sealing Fillers B) Hot Poured Type, Page 20-4	
	Sample Required	
	Removed: Yes – One sample per lot unless shipped from tested and approved stock.	
Section 23 – Traffic Control		
	2) Thermoplastic Pavement Marking, Page 23-1	

		Approved Products List	
		Removed: No	
		Added: Yes	
		Manufacturer Certification of Compliance Required	
		Removed: Yes	
		Added: No	
	23) Moveable Barrier System, Page 23-2		
		Item or Group	
		Added: 23) Moveable Barrier System	
		Sample Required	
		Added: -----	
		Approved Products List	
		Added: No	
		Nebraska Qualified Material Vendors List	
		Added: No	
		Manufacturer Certification of Tests Required	
		Added: No	
		Manufacturer Certification of Compliance Required	
		Added: Yes	
		Location of Additional Information	
		Added: -----:	
Section 24 – Roadside Development and Erosion Control			
	2) Rock Riprap, A) Rock Riprap, Page 24-1		
		Sample Required	
		Removed: Yes – One 60-pound sample for each 5,000 tons or fraction thereof (sample to be used for quality tests). If material is from an approved source no sample required.	
		Approved Products List	
		Removed: Yes	
		Added: No	
	5) Gabions, Page 24-1		
		Sample Required	
		Removed: Yes – One 60-pound sample for each 5,000 tons or fraction thereof (sample to be used for quality tests). If material is from an approved source no sample required.	
	7) Revet Mattress, Page 24-1		
		Sample Required	
		Yes – One 60-pound sample for each 5,000 tons or fraction thereof (sample to be used for quality tests). If material is from an approved source no sample required.	
		Nebraska Qualified Material Vendors List	

			Removed: No
			Added: Yes
Section 25 – Miscellaneous Materials			
	7) Delineators, B) Reflectors, Page 25-1		
		Sample Required	
		Yes – Fifty reflectors from each lot or batch. No sample required if the reflectors are on the approved products list or are shipped from tested and approved stock.	
		Location of Additional Information	
		Removed: Note 22	
	17) Hot Poured Type, Page 25-2		
		Sample Required	
		Removed: Yes – One sample per lot unless shipped from tested and approved stock.	
Section 27 – Notes			
	Note 22) Reflectors and Fasteners, Page 27-7		
		Removed: Note 22	
	Note 26) Rock Riprap, Gabion Stone Fill, and Revet Mattress Stone Fill, Page 27-8		
		Removed: rock riprap	
		Added: aggregate	
Section 28 – Quality Assurance Program for Construction			
	Test Methods for Qualification of Sampling and Testing Personnel, Page 28-A-4		
		Concrete	
		Removed: Concrete Field Inspection/General Handling of Concrete	
		Added: Portland Cement Concrete Paving Inspection	
		Pavement Marking	
		Added: Paint & Bead Sampling (5 year)	
	Table A1 – Test Methods for Qualification of Sampling and Testing Personnel, Page 28-A-7		
		Concrete	
		Removed: Concrete Field Inspection/General Handling of Concrete	
		Added: Portland Cement Concrete Paving Inspection	
		Course Title	
		Removed: Concrete Field Inspection/General Handling of Concrete	
		Added: Portland Cement Concrete Paving Inspection	
		Training Coordinated By:	
		Removed: FHWA-NHI	
		Added: AASHTO TC3	
	Table A1 – Test Methods for Qualification of Sampling and Testing Personnel, Page 28-A-11		

		Paint & Bead Sampling	
			Added: Paint & Bead Sampling
	Table A1 – Test Methods for Qualification of Sampling and Testing Personnel, Page 28-A-13		
		Concrete	
			Removed: Concrete Field Inspection/General Handling of Concrete
			Added: Portland Cement Concrete Paving Inspection
	Appendix G – FHWA Letter of Approval for the Materials Sampling Guide and Quality Assurance Program for Construction, Page 28-G-1		
			Removed: 2020 approval letter
			Added: 2021 approval letter
Section 29 – Quality Assurance Program for Construction			
		General	
			Removed: The certified facility must submit documentation of this certification to the Nebraska Department of Transportation, Materials & Research Division on an annual basis for review. NDOT must receive a copy of all audit reports, including a list of quality control personnel, certifications, noted deficiencies and corrective actions taken by the manufacturer.
		Manufacturer Responsibilities	
			Removed: Said certificate is required for each NDOT project. This documentation is required in addition to yearly-submitted NTPEP documentation.
			Added: Said certificate is required to accompany each load of pipe delivered to an NDOT project. This documentation will be reviewed for authorization by Materials & Research personnel.