

REVISIONS TO MATERIALS SAMPLING GUIDE July 1, 2020 Edition

Section 3 – Asphaltic Concrete			
1) Asphaltic Concrete Type SPH, SPR, Page 3-1			
		Air Void Binder % FAA CAA Gradation	
			Q.C. SAMPLING AND TESTING BY CONTRACTOR
			Added: If, at the completion of the project, the final lot consists of less than one full lot of asphaltic concrete, 1 sample for each subplot or fraction thereof, shall be taken and tested.
2) Asphaltic Concrete Type SPS, Page 3-1			
		Air Void Gradation Binder %	
			Q.C. SAMPLING AND TESTING BY CONTRACTOR
			Added: If, at the completion of the project, the final lot consists of less than one full lot of asphaltic concrete, 1 sample for each subplot or fraction thereof, shall be taken and tested.
3) Asphaltic Concrete Types LC, RLC, SLX, SRM, Page 3-1			
		Quality	
			Q.C. SAMPLING AND TESTING BY CONTRACTOR
			Added: If, at the completion of the project, the final lot consists of less than one full lot of asphaltic concrete, 1 sample for each subplot or fraction thereof, shall be taken and tested.
4) Asphaltic Concrete Mixtures, Page 3-2			
		Density	
			Q.C. SAMPLING AND TESTING BY CONTRACTOR
			Added: If, at the completion of the project, the final lot consists of less than one full lot of asphaltic concrete, 1 sample for each subplot or fraction thereof, shall be taken and tested.
Section 5 – Cold Mix Bituminous Surfacing and Base			
1) Subgrade Sand, Page 5-1			
		Location of Additional Information	
			Removed: - - - - -
			Added: Section 27, Note 28
2) Mineral Filler, Page 5-1			
		Location of Additional Information	
			Removed: - - - - -

		Added: Section 27, Note 28
	3) Combined Materials (Sand and Filler), Page 5-2	
	Location of Additional Information	
		Removed: - - - - -
		Added: Section 27, Note 28
	4) Bituminous Aggregates (Includes Mixed in Place Bituminous Surfacing), Page 5-2	
	Location of Additional Information	
		Added: Section 27, Note 28
Section 6 – Gravel and Crushed Rock for Surfacing		
	1) Gravel for Surfacing, Page 6-1	
	Location of Additional Information	
		Added: Section 27, Note 28
	2) Crushed Rock for Surfacing, Page 6-2	
	Location of Additional Information	
		Added: Section 27, Note 28
Section 7 – Mineral Aggregate for Armor Coat		
	1) Mineral Aggregate for Armor Coat (Gravel), Page 7-1	
	Location of Additional Information	
		Added: Section 27, Note 28
	2) Chip Seal (Limestone, Dolomite, Granite, Quartzite), Page 7-2	
	Location of Additional Information	
		Added: Section 27, Note 28
	3) Light-weight Aggregate, Page 7-3	
	Location of Additional Information	
		Added: Section 27, Note 28
Section 8 – Crushed Rock and Crushed Rock Screenings for Base Course		
	1) Crushed Rock for Base Course, Page 8-1	
	Location of Additional Information	
		Removed: - - - - -
		Added: Section 27, Note 28
	2) Crushed Rock Screenings for Base Course, Page 8-1	
	Location of Additional Information	
		Removed: - - - - -
		Added: Section 27, Note 28

Section: 9 – Grading			
	1) Embankment (Cohesive and Granular), Moisture Deflection/ Moisture Density, Page 9-1		
	Location of Additional Information		
	Removed: - - - - -		
	Added: Section 27, Note 28		
	1) Embankment (Cohesive and Granular), Gradation (If Specified), Page 9-2		
	Location of Additional Information		
	Removed: - - - - -		
	Added: Section 27, Note 28		
Section 10 – Compaction – Subgrade (Cohesive Soils)			
	1) Subgrade Compaction and Subgrade Re-construction, Page 10-1		
	Location of Additional Information		
	Removed: - - - - -		
	Added: Section 27, Note 28		
	2) Fly Ash, Page 10-2		
	Location of Additional Information		
	Removed: - - - - -		
	Added: Section 27, Note 28		
	4) Hydrated Lime or Pebble Quicklime, Page 10-2		
	Location of Additional Information		
	Removed: - - - - -		
	Added: Section 27, Note 28		
Section 11 – Compaction Stabilized Portion of Granular Subgrade			
	1) Stabilized Portion of Granular Subgrade, Moisture Deflection/ Moisture Density, Page 11-1		
	Location of Additional Information		
	Removed: - - - - -		
	Added: Section 27, Note 28		
	1) Stabilized Portion of Granular Subgrade, Quality & Gradation (If Specified), Page 11-2		
	Location of Additional Information		
	Removed: - - - - -		
	Added: Section 27, Note 28		
	2) Soil Binder, Page 11-3		
	Location of Additional Information		
	Removed: - - - - -		
	Added: Section 27, Note 28		

Section 12 – Foundation Course (Crushed Concrete, Aggregate-D, and Bituminous)			
1) Foundation Course, Page 12-1			
		Location of Additional Information	
		Removed: - - - - -	
		Added: Section 27, Note 28	
2) Crushed Concrete Foundation Course, Page 12-1			
		Location of Additional Information	
		Removed: - - - - -	
		Added: Section 27, Note 28	
3) Bituminous Foundation Course, Page 12-2			
		Location of Additional Information	
		Removed: - - - - -	
		Added: Section 27, Note 28	
4) Aggregate Foundation Course – D, Page 12-2			
		Location of Additional Information	
		Removed: - - - - -	
		Added: Section 27, Note 28	
Section 13 – Granular Base, Granular Fill, Granular Backfill, Sand Blanket and MSE Walls			
2) Mineral Aggregates (Commercial Production), Page 13-1			
		Location of Additional Information	
		Added: Section 27, Note 28	
3) Coarse Sand, Page 13-2			
		Location of Additional Information	
		Added: Section 27, Note 28	
4) Fine Sand, Page 13-2			
		Location of Additional Information	
		Added: Section 27, Note 28	
5) Soil Binder, Page 13-3			
		Location of Additional Information	
		Removed: - - - - -	
		Added: Section 27, Note 28	
6) Granular Base, Granular Fill, Granular Backfill and Sand Blanket, Moisture Deflection/ Moisture Density, Page13-4			
		Location of Additional Information	
		Removed: - - - - -	
		Added: Section 27, Note 28	
6) Granular Base, Granular Fill, Granular Backfill and Sand Blanket, Gradation (If Specified), Page 13-5			

		Location of Additional Information
		Added: Section 27, Note 28
	7) Stabilized Portion of Granular Base, Granular Fill, Granular Backfill and Sand Blanket, Moisture Deflection/ Moisture Density, Page 13-6	
		Location of Additional Information
		Removed: - - - - -
		Added: Section 27, Note 28
	7) Stabilized Portion of Granular Base, Granular Fill, Granular Backfill and Sand Blanket, Gradation (If Specified), Page 13-6	
		Location of Additional Information
		Removed: - - - - -
		Added: Section 27, Note 28
	8) Granular Backfill for Structures, Quality & Gradation, Page 13-7	
		Location of Additional Information
		Added: Section 27, Note 28
	8) Granular Backfill for Structures, Moisture Deflection/ Moisture Density, Page 13-7	
		Location of Additional Information
		Removed: - - - - -
		Added: Section 27, Note 28
	9) Granular Subdrains, Page 13-8	
		Location of Additional Information
		Added: Section 27, Note 28
	10) Granular Backfill for Pipe Underdrain, Page 13-8	
		Location of Additional Information
		Added: Section 27, Note 28
	11) Select and Random Granular Backfill for MSE Walls, Quality, Gradation, Compaction, & Chemical, Friction Angle, Page 13-9	
		Location of Additional Information
		Removed: - - - - -
		Added: Section 27, Note 28
	11) Select and Random Granular Backfill for MSE Walls, Moisture Deflection/ Moisture Density, Page 13-9	
		Location of Additional Information
		Removed: - - - - -
		Added: Section 27, Note 28
Section 15 - Portland Cement Concrete For Pavement, Base Course, Base Course Widening, Pavement Patching, etc.		
	7a) Plastic Concrete (Non-QA/QC), Page 15-2	
		Location of Additional Information
		Added: Section 27, Note 28
	7b) Plastic Concrete (QA/QC), Page 15-2	
		Location of Additional Information

		Added: Section 27, Note 28
	12) Reinforcement Bars, Page 15-4	
	Item or Group	
	Removed: Including Dowel Bars	
	12) Reinforcement Bars, A) Dowel Bars, Page 15-4	
	Item or Group	
	Added: Dowel Bars	
	Sample Required	
	Added: -----	
	Approved Products List	
	Added: No	
	Nebraska Qualified Material Vendors List	
	Added: No	
	Manufacturer Certified Tests Required	
	Added: Yes	
	Manufacturer Certification of Compliance Required	
	Added: No	
	Location of Additional Information	
	Added: -----	
	14) Deformed Metal Joint Material), Page 15-4	
	Manufacturer Certification of Compliance Required	
	Removed: No	
	Added: Yes	
Section 16 - Portland Cement Concrete for Structures, Culverts, and Miscellaneous Construction		
	8) Plastic Concrete, Page 16-2	
	Location of Additional Information	
	Added: Section 27, Note 28	
	9) Lightweight Concrete, Page 16-3	
	Location of Additional Information	
	Added: Section 27, Note 28	
	10) Concrete Test Cylinders, Page 16-4	
	Location of Additional Information	
	Added: Section 27, Note 28	
	14) Reinforcement Bars, Page 16-5	
	Item or Group	
	Removed: Including Dowel Bars	
	24) Bond Breakers for Dowel Bars, Page 16-6	

	Item or Group	
	Removed: Bond Breakers for Dowel Bars	
	Sample Required	
	Removed: Bond Breakers for Dowel Bars	
	Approved Products List	
	Removed: Bond Breakers for Dowel Bars	
	Nebraska Qualified Material Vendors List	
	Removed: Bond Breakers for Dowel Bars	
	Manufacturer Certified Tests Required	
	Removed: Bond Breakers for Dowel Bars	
	Manufacturer Certification of Compliance Required	
	Removed: Bond Breakers for Dowel Bars	
	Location of Additional Information	
	Removed: Bond Breakers for Dowel Bars	
Section 19 – Culvert Pipe, Drain Tile, Sewer Pipe, Slope Drains and Related Materials		
1) Culvert, C) Plastic (All Shapes) (15 inches and larger), Page 19-1		
	Sample Required	
	Removed: Yes, One 10-foot section from each lot	
	Added: -----	
	Nebraska Qualified Material Vendors List	
	Removed: No	
	Added: Yes	
	Manufacturer Certified Tests Required	
	Removed: Yes	
	Added: No	
	Location of Additional Information	
	Added: **	
Footer		
	Added: **See Section 29, Policy 10, Policy Concerning Plastic Pipe Certification and Approval	
3) Sewer Pipe, C) Plastic (15 inches and larger), Page 19-2		
	Sample Required	
	Removed: Yes, One 10-foot section from each lot	
	Added: -----	
	Nebraska Qualified Material Vendors List	
	Removed: No	
	Added: Yes	
	Manufacturer Certified Tests Required	

		Removed: Yes
		Added: No
	Location of Additional Information	
		Removed: -----
		Added: **
	Footer	
	Added: **See Section 29, Policy 10, Policy Concerning Plastic Pipe Certification and Approval	
Section 20 – Bridge Materials		
	8) Galvanized Sheet Metal, Page 20-1	
	Manufacturer Certification of Compliance Required	
		Removed: No
		Added: Yes
	9) Galvanized Steel Wire Strand, Page 20-1	
	Manufacturer Certification of Compliance Required	
		Removed: No
		Added: Yes
	11) Bolts, Nuts, and Washers, A) Anchor, a) High Tensile, Page 20-1	
	Manufacturer Certification of Compliance Required	
		Removed: No
		Added: Yes
	22) Reinforcement Bars, A) Bars, Page 20-4	
	Item or Group	
		Removed: Including Dowel Bars
	22) Reinforcement Bars, D) Bars, Page 20-4	
	Item or Group	
		Added: Dowel Bars
	Sample Required	
		Added: -----
	Approved Products List	
		Added: No
	Nebraska Qualified Material Vendors List	
		Added: No
	Manufacturer Certified Tests Required	
		Added: Yes
	Manufacturer Certification of Compliance Required	
		Added: No
	Location of Additional Information	

		Added: -----
	24) Precast and Prestressed Concrete Units, Page 20-4	
	Manufacturer Certification of Compliance Required	
	Removed: No	
	Added: Yes	
	28) Structural Fasteners for Concrete Girder Bridges, A) High Tensile (Regular and Weather Resisting Types), Page 20-5	
	Manufacturer Certified Tests Required	
	Removed: No	
	Added: Yes	
	Manufacturer Certification of Compliance Required	
	Removed: Yes	
	Added: No	
Section 21 – Lighting and Signal Materials		
	2) Electrical Items, C) Conduit, Page 21-1	
	Manufacturer Certification of Compliance Required	
	Removed: No	
	Added: Yes	
	2) Electrical Items, H) Span Wire, Tie Wire and Guy Wire, Page 21-2	
	Manufacturer Certification of Compliance Required	
	Removed: No	
	Added: Yes	
	2) Electrical Items, I) Electrical Equipment, Traffic Signals and Controllers, Page 21-3	
	Manufacturer Certification of Compliance Required	
	Removed: No	
	Added: Yes	
	2) Electrical Items, I) Electrical Equipment, b) Traffic Signals and Controllers, Page 21-3	
	Manufacturer Certification of Compliance Required	
	Removed: No	
	Added: Yes	
	2) Electrical Items, I) Electrical Equipment, c) Transformers, Page 21-3	
	Manufacturer Certification of Compliance Required	
	Removed: No	
	Added: Yes	
	2) Electrical Items, I) Electrical Equipment, d) Vehicle Detectors, Page 21-3	
	Manufacturer Certification of Compliance Required	
	Removed: No	
	Added: Yes	

	2) Electrical Items, I) Electrical Equipment, g) Fittings and Hardware, Page 21-3
	Manufacturer Certification of Compliance Required
	Removed: No
	Added: Yes
	2) Electrical Items, I) Electrical Equipment, h) Pull Boxes, Page 21-3
	Approved Products List
	Removed: -----
	Added: Yes
	2) Electrical Items, J) Galvanized Steel Wire, Page 21-3
	Manufacturer Certification of Compliance Required
	Removed: No
	Added: Yes
Section 22 – Signing Materials	
	1) Bolts, Nuts and Washers, C) Sign Fasteners, Page 22-1
	Manufacturer Certification of Compliance Required
	Removed: No
	Added: Yes
Section 23 – Traffic Control	
	13) Glass Beads for Permanent Pavement Marking Type Paint, Page 23-2
	Sample Required
	Removed: for each color
Section 25 – Miscellaneous Materials	
	7) Delineators, A) Fasteners, Page 25-1
	Manufacturer Certification of Compliance Required
	Removed: No
	Added: Yes
	11) Pipe, C) Steel, Page 25-1
	Manufacturer Certification of Compliance Required
	Removed: No
	Added: Yes
	12) Cold-Drawn Steel Wire, Page 25-2
	Manufacturer Certification of Compliance Required
	Removed: No
	Added: Yes

Section 27 – Notes			
	Note 28, Random Sample Generator, Page 27-8		
			Added: Note 28, Random Sample Generator
Section 28 – Quality Assurance Program for Construction			
	Test Methods for Qualification of Sampling and Testing Personnel, Page 28-A-4		
	Laboratory and Field Technician Certification		
			Asphalt - PG Binder/Emulsion Sample Technician Duration:
			Removed: One Time Review
			Added: 5 Year
	Table A1 - Test Methods for Qualification of Sampling and Testing Personnel, Page 28-A-11		
	PG Binder/Emulsion Sample Technician		
			Removed: To become certified as a PG Binder/Emulsion Sample Technician the certified individual will be able to review, AASHTO T 40, demonstrate understand and perform actual demonstration of the sampling procedure.
			Added: To become certified as a PG Binder/Emulsion Sample, Technician the certified individual will be able to review, AASHTO T40 section 10 and the NDOT edits, demonstrate, understand, and perform actual demonstration of the sampling procedure.
			Removed: One Time Review
			Added: 5 Year
	Appendix G – FHWA Letter of Approval for the Materials Sampling Guide and Quality Assurance Program for Construction		
			Added: 2020 Approval
Section 29, Policies			
	Policy 4, Acceptance Policy for Portland Cement and Interground/Blended Cements, Page 29-12		
	Quality Assurance of Interground/Blended Cement		
			Removed: If ratio is high, the test will be re-run to verify the results.
	Policy 10, Policy Concerning Plastic Pipe Certification and Approval, Page 29-24		
			Added: Policy 10, Policy Concerning Plastic Pipe Certification and Approval