REVISIONS TO MATERIALS SAMPLING GUIDE July 1, 2018 Edition

Section 2, Asphaltic Ma	aterials
<i>i</i> '	Asphalt, Emulsified Anionic and Cationic
	Field Personnel
	Removed – <u>Field-Diluted Emulsions</u> Unless diluted under the supervision of the engineer, a sample consisting of one one-quart plastic container from each tank car or truckload following dilution at project.
	Supplier-Diluted and Undiluted Emulsions When requested by the central laboratory, a sample consisting of one one-quart plastic container from a tank car or truckload following receipt at project.
	Sample to be submitted no later than five days to the central laboratory.
	No further samples are required unless the appearance of the material or any physical characteristics of it indicates contamination or non-compliance with the specifications
	Added – One sample for each item/type of emulsion on project for all suppliers. Inspector chooses any time within the project to get one sample. Sample will be shipped immediately as it must be tested within 14 days of born on date. Samples diluted with water after terminal delivery will be identified and the percentage of dilution disclosed.
Section 3, Asphaltic Co	oncrete laterial – Asphaltic Concrete Type SPH, SPR; Air Void, Binder %, FAA, CAA, Gradation
raye 3-1, IVI	Location of Additional Information
	Added – Note 28
Page 3-1 M	aterial – Asphaltic Concrete Type SPH, SPR; Tensile Strength Ratio (TSR) T-283
1 age 5 1, W	Location of Additional Information
	Added – Note 28
Page 3-1. M	aterial – Asphaltic Concrete Type SPS
	Location of Additional Information
	Added – Note 28
Page 3-1, M	aterial – Asphaltic Concrete Types LC, RLC, SLX, SRM
,	Material - Asphaltic Concrete Types LC, RLC, SLX, SRM
	Removed – OGFCCRM, OGFC, GGCRM
	Location of Additional Information
	Added – Note 28
Section 4, Asphaltic Co	oncrete Materials
Page 4-1, M	ineral Aggregate (Gravel, Sand, Sand-Gravel)

Location of Additional Information
Added – Note 28
Page 4-1, Crushed Rock (Limestone) Location of Additional Information
Added – Section 27, Note 28
Page 4-1, Crushed Rock (Limestone Screenings, Man-Sand)
Location of Additional Information
Added – Section 27, Note 28
Page 4-2, Quartzite and Granite
Location of Additional Information
Added – Section 27, Note 28
Page 4-2, Quartzite, Chat and Granite (Screenings, Man-Sand)
Location of Additional Information
Added – Section 27, Note 28
Page 4-2, Crushed Mineral Aggregate or Chat for Micro-surfacing
Location of Additional Information
Added – Note 28
Section 5, Cold Mix Bituminous Surfacing and Base
Page 5-1, Subgrade Sand
Location of Additional Information
Added – Section 27, Note 28
Page 5-2, Combined Materials (Sand and Filler)
Location of Additional Information
Added – Section 27, Note 28
Page 5-2, Bituminous Aggregates (Includes Mixed in Place Bituminous Surfacing)
Location of Additional Information
Added – Note 28
Page 5-3, Mineral Aggregates
Location of Additional Information
Added – Note 28
Section: 6 – Gravel and Crushed Rock for Surfacing
Page 6-1, Gravel for Surfacing
Location of Additional Information
Added – Note 28
Page 6-2, Crushed Rock for Surfacing
Location of Additional Information
Location of Additional Information

		Added – Note 28		
Section	7 – Mineral Aggregate			
	Page 7-1, Mineral Aggregate for Armor Coat (Gravel)			
	Loca	Location of Additional Information		
		Added – Note 28		
		(Limestone, Dolomite, Granite, Quartzite)		
	Loca	ition of Additional Information		
		Added – Note 28		
0 "	0 0 1 15 1			
Section		Crushed Rock Screenings for Base Course		
		Rock for Base Course		
	Loca	ation of Additional Information		
		Added – Section 27, Note 28		
0	40 Farmalatian Oarma	a (Omish ad Osasanta, Asama mata D. and Bitumina va		
Section		e (Crushed Concrete, Aggregate-D, and Bituminous)		
		egates and Soil Binder		
	IVIate	erials - All Aggregates and Soil Binder		
	T	Removed – All Aggregates and Soil Binder		
	Туре	e of Test		
	Finds	Removed – Experimental Base Course Mixtures		
	Field	Personnel		
		Removed - Project personnel will submit the 60-pound sample of aggregates and the 20-pound sample of soil binder needed to perform the testing shown under the central laboratory column.		
		The sample shall be taken at the project.		
	Cent	ral Lab		
		Removed – One 60-pound sample of each aggregate and one 20-pound sample of soil binder for		
		EBCM mix design and moisture-density information.		
		This sample is to be submitted prior to production.		
	Page 12-3, Soil Bind			
	Mate			
		Removed – Soil Binder		
	Туре	e of Test		
		Removed – Plasticity Index & Gradation		
	Field	l Personnel		

	Removed – Project personnel will supply the 10-pound sample needed to perform the testing shown under the central laboratory column.			
	The sample shall be taken at the mixing locations.			
	Central Lab			
	Removed – One 10-pound sample for testing each 1,000 cubic yards of binder used or fraction thereof.			
Sectio	n 13 – Granular Base, Granular Fill, Granular Backfill, Sand Blanket and MSE Walls			
	Page 13-1, All – Mineral Aggregates and Soil Binder			
	Location of Additional Information			
	Added – Section 27, Note 28			
	Page 13-1, Mineral Aggregates (Commercial Production)			
	Location of Additional Information			
	Added – Note 28			
	Page 13 -2, Coarse Sand			
	Location of Additional Information			
	Added – Note 28			
	Page 13-2, Fine Sand			
	Location of Additional Information			
	Added – Note 28			
	Page 13-4, Granular Base, Granular Fill, Granular Backfill and Sand Blanket			
	Location of Additional Information			
	Added – Note 28			
	Page 13-6, Stabilized Portion of Granular Base, Granular Fill, Granular Backfill and Sand Blanket			
	Location of Additional Information			
	Added – Note 28			
	Page 13-7, Granular Backfill for Structures			
	Location of Additional Information			
	Added – Note 28			
	Page 13-8, Granular Subdrains			
	Location of Additional Information			
	Added – Note 28			
	Page 13-8, Granular Backfill for Pipe Underdrain			
	Location of Additional Information			
	Added – Note 28			
	Page 13-9, Select and Random Granular Backfill for MSE Walls			
	Location of Additional Information			
	Added – Section 27, Note 28			

Section 14 - Portlan	d Cement/Interground-Blended Cement/Silica Fume		
	Interground/Blended Cement		
1 490 14 11	Field Personnel		
	Removed – 1-gallon		
	Added – 15-pound		
	Central Lab		
	Removed – 1-gallon		
	Added – 15-pound		
Section 15 - Portland	Cement Concrete For Pavement, Base Course, Base Course Widening, Pavement Patching, etc.		
	Class E and F Aggregates		
	Location of Additional Information		
	Added – Note 28		
Page 15-1,	Class A, B, and C Aggregates		
	Location of Additional Information		
	Added – Note 28		
Page 15-1,	Class R Aggregate		
	Location of Additional Information		
	Added – Note 28		
Page 15-2,	All Aggregates		
	Location of Additional Information		
	Added – Note 28		
Page 15-5,	Page 15-5, Load Transfer Device Assemblies for Reinforced Concrete Pavement Joints, Semi-Rigid, Closed-Cell Polypropylene Foam		
	Item or Group		
	Added – Semi-Rigid, Closed-Cell Polypropylene Foam		
	Approved Products List		
	Added – Yes		
	Cement Concrete For Structures, Culverts, and Miscellaneous Construction		
Page 16-1,	Class E and F Aggregates		
	Location of Additional Information		
_	Added – Note 28		
Page 16-1,	Class A, B, and C Aggregates		
	Location of Additional Information		
	Added – Note 28		
Page 16-1,	Class R Aggregate		
	Location of Additional Information		

		Added – Note 28		
	Page 16-2, All Ago			
		ocation of Additional Information		
		Added – Note 28		
	<u> </u>			
Section 1	18 – Fence Materials			
	Page 18-1, Fence (Barbed Wire, Chain Link Fabric, Right of Way, Woven Wire)			
		anufacturer Certified Tests Required		
		Removed – No		
		Added – Yes		
	Page 18-1, Handra	ail and Barrier Rail		
	Ma	anufacturer Certified Tests Required		
		Removed – No		
		Added – Yes		
		Fasteners and Ties		
	Ma	anufacturer Certified Tests Required		
		Removed – No		
		Added – Yes		
	Page 18-1, Fittings			
	Ma	anufacturer Certified Tests Required		
		Removed – No		
		Added – Yes		
	Page 18-1, Staples			
	Ma	anufacturer Certified Tests Required		
		Removed – No		
		Added – Yes		
	Page 18-1, Steel '			
	Ma	anufacturer Certified Tests Required		
		Removed – No		
		Added – Yes		
	Page 18-1, Tension Wire			
	Manufacturer Certified Tests Required			
		Removed – No		
		Added – Yes		
	40 O L (D) D	THE OF TH		
Section 1	19 – Culvert Pipe, Drain Tile, Sewer Pipe, Slope Drains and Related Materials			
		t, Metal Pipe (Zinc Coated Galvanized Steel, Aluminum Coated Steel, Polymer Coated Steel)		
L	Ite	em or Group		

	Added – Metal Pipe
	Approved Products List
	Removed – See Post Applied Coatings and Flexible Pipe Joints (page 19-2) for applicable coating and joint information
	Location of Additional Information
	Added – See Post Applied Coatings and Flexible Pipe Joints (page 19-2) for applicable coating and joint information
Page 19-	1, Culvert, Metal Pipe (Zinc Coated Galvanized Steel, Aluminum Coated Steel, Polymer Coated Steel), Pipe
	Item or Group
	Removed – Culverts
	Added – Pipe
	Item or Group
	Removed – Culverts (Plastic)
	Sample Required
	Removed – Yes – One 10' section from each lot
	Approved Products List
	Removed – No
	Manufacturer Certified Tests Required
	Removed – Yes
	Manufacturer Certification of Compliance Required
	Removed – Yes
	Item or Group
	Removed – Underdrains
	Sample Required
	Removed – Yes – One 24-inch sample of each size to include markings
	Approved Products List
	Removed – No
	Manufacturer Certified Tests Required
	Removed – No
	Manufacturer Certification of Compliance Required
	Removed – Yes
	Location of Additional Information
	Removed – Section 27, Note 11
Page 19-	1, Culvert, Reinforced Concrete
	Item or Group
	Added – Pipe
	Location of Additional Information
	Added – Section 27, Note 28
	Item or Group

Flared End Sections		
Location of Additional Information		
Added – Section 27, Note 28		
Page 19-1, Culvert, Plastic (All Shapes) (15 inches and larger)		
Item or Group		
Added – Plastic (All Shapes) (15 inches and larger)		
Sample Required		
Added – Yes – One 10-foot section from each lot.		
Approved Products List		
Approved Froducts List Added – No		
Manufacturer Certified Tests Required		
Added – Yes		
Manufacturer Certification of Compliance Required		
Added – Yes		
Location of Additional Information		
Added – See Flexible Pipe Joints (page 19-2) for applicable joint information		
Page 19-1, Culvert, Drain Tile		
Item or Group		
Concrete		
Location of Additional Information		
Added – Note 28		
Item or Group		
Added – Plastic/Underdrains (14 inches or smaller)		
Sample Required		
Added – Yes – One 24-inch sample of each type (perforated, non-perforated, HDPE, PVC) and size to		
include markings		
Approved Products List		
Added – No		
Manufacturer Certified Tests Required		
Added – No		
Manufacturer Certification of Compliance Required		
Added – Yes		
Location of Additional Information		
Added – Section 27, Note 11		
Page 19-2, Sewer Pipe		
Item or Group		
Removed – Plastic		
Sample Required		
Removed – Yes – One 10-foot section from each lot.		

	Approved Products List
	Removed – No
	Manufacturer Certified Tests Required
	Removed – Yes
	Manufacturer Certification of Compliance Required
	Removed – Yes
	Item or Group
	Added – Plastic (15 inches or larger)
	Sample Required
	Added – Yes – One 10-foot section from each lot.
	Approved Products List
	Added – No
	Manufacturer Certified Tests Required
	Added – Yes
	Manufacturer Certification of Compliance Required
	Added – Yes
Section	0 – Bridge Materials
	Page 20-4, Prestressed Steel Wire Strand
	Location of Additional Information
	Added – Section 27, Note 28
	Page 20-4, Prestressed Fine and Coarse Aggregate
	Location of Additional Information
	Added – Section 27, Note 28
Section	3 – Traffic Control
	Page 23-2, Permanent Pavement Marking, Type Paint
	Sample Required
	Added - Yes – a minimum of one 1-quart sample for each color when the pay quantity exceeds 5,000 linear feet
	Manufacturer Certification of Compliance Required
	Added – Yes, for each color when the pay quantity is less than 5,000 linear feet
	Location of Additional Information
	Added – Section 27, Note 28
	Page 23-2, Glass Beads for Permanent Pavement Marking Type Paint
	Sample Required
	Added - Yes – a minimum of one 1-quart sample for each color when the pay quantity exceeds 5,000 linear feet
	Manufacturer Certification of Compliance Required
1	Added – Yes, for each color when the pay quantity is less than 5,000 linear feet

Location of Additional Information
Added – Section 27, Note 28
Added – Section 27, Note 26
Section 24 – Roadside Development and Erosion Control
Page 24-1, Rock Riprap, Rock Riprap
Location of Additional Information
Added – Note 28
Page 24-1, Gabions, Gabion Stone Fill
Location of Additional Information
Added – Note 28
Page 24-1, Revel Mattress, Revel Mattress Stone Fill
Location of Additional Information
Added – Note 28
Operation Of Microsoft Metaphologicals
Section 25 – Miscellaneous Materials
Page 25-4, Culvert Sandfill
Location of Additional Information
Added – Note 28
Operations O.Z. Minters
Section 27 – Notes
Page 27-4, Note 9, Reinforcing Steel, Bars, and Fabric
Added – for review and authorization
Page 27-5, Note 14, Steel Bearing Piling, Steel Sheet Piling and Steel Shells for Cast-in-Place Piling
Added – and authorization
Page 27-6, Note 18, Gray Iron Castings (Cast Iron Grates, Frames, Pull Box Frames and Covers, Junction Boxes, etc.)
Added – and associated certificates
Page 27-6, Note 28, Nebraska Qualified Materials Vendor List
Added – NDOT will pre-qualify material vendors to supply specific materials based on specification as outlined in the Standard Specification for Highway Construction and contract. In addition to these qualifications, additional material acceptance documentation is required for the materials provided by these vendors.
The NQMVL is maintained by the Materials & Research Division. The NQMVL is subject to change at the discretion of the Nebraska Department of Transportation.
Section 28 – Quality Assurance Program for Construction Materials
Page 28-A-4, Test Methods for Qualification of Sampling and Testing Personnel
Concrete Plant Technician
CONTROL FORMING

	Added – footnote designation for Note 3	
	Removed – NDOT Employees – Lifetime	
	Added – and Consultant	
Con	crete Field Inspector/General Handling of Concrete	
	Added – footnote designation for Note 3	
Prof	ilogragh Operator	
	Added – footnote designation for Note 3	
Sho	tcrete Technician (5 year)	
	Removed – Shotcrete Technician – 5 year	
Page 28-A-6, Table	A1 – Test Methods for Qualification of Sampling and Testing Personnel	
Con	crete Plant Technician	
	Removed – A ready mix plant inspector must	
	Added – Individuals who oversee proportioning of concrete, running moistures on aggregates, performing gradations etc., are required to	
	Removed – This certification is required for NDOT employees (one-time training) and all contractor	
	personnel performing project material acceptance testing and/or sampling at a concrete plant.	
	Removed – NDOT Employees – Lifetime	
	Added – and Consultant	
Page 28-A-9, Table A1 – Test Methods for Qualification of Sampling and Testing Personnel		
Sho	tcrete Technician	
	Removed A Shotcrete Technician is an individual who has the knowledge and ability to properly perform the installation of Shotcrete material. The certified individual will share credentials, project experience, and complete a test panel.	
	Training Coordinated By: NDOT Materials & Research or Designee	
	Certification Duration: 5 years	
	Certification Records Retained: SiteManager	
	Authority: NDOT Materials & Research or Designee	
	Prerequisite: NA	
Page 28-F-2, Appendix F, Annual FHWA IA Program Report		
Assessment of Technician Certification Status		
ACI Concrete Strength Testing Technician		
	Added – ACI Concrete Strength Testing Technician	
Prof	ilograph Operator	
	Added – Profilograph Operator	