Section:	103.06 EXECUTION OF CONTRACT
Revision:	Replace the first sentence with the following:
	Within 30 calendar days after receiving the Contract, execute and return to the Department
	along with the following items:
Section:	103.06 EXECUTION OF CONTRACT
Revision:	Remove the requirement to print documents, by replacing the second sentence in the second
	paragraph with the following:
	Execute these documents.
Section:	103.08 FAILURE TO EXECUTE CONTRACT
Revision:	Change the allowable time before possible nullification of award from 15 to 30 calendar days,
	by replacing the first sentence with the following:
	The bidder's failure to execute the Contract or to comply with all requirements of Subsection
	103.06 within 30 calendar days after receipt of the Contract will be just cause for the
	Department to nullify the award.
Section:	105.03 Record Plans
Revision:	Replace the last sentence in this subsection with the following:
	The Department will furnish the Contractor with an electronic file copy of the Record Plans at
	the Pre-Construction conference.
Section:	103.06.01 (incorrect in book) Commercial General Liability
Page:	107-9
Revision:	Renumber section as 107.18.01
Section:	103.06.02 (incorrect in book) Business Automobile Liability
Page:	107-9
Revision:	Renumber section as 107.18.02
Section:	103.06.03 (incorrect in book) Workers' Compensation Insurance and Employer's Liablility
	Insurance
Page:	107-9
Revision:	Renumber section as 107.18.03
Section:	108.01 SUBCONTRACTING OF CONTRACT
Revision:	Replace the second sentence in the fifth paragraph with the following:
	All payments to subcontrators must be entered into AASHTOWare Project Civil Rights and
	Labor as proof that payment has been made to the subcontractor within the 7 calendar days.
Section:	108.01 SUBCONTRACTING OF CONTRACT
Revision:	Change the last word in the fifth paragraph from 'request' to 'requirement'
Section:	109.07.01 Liquid Asphalt
Revision:	Remove the following items from the list of 'Adjustable Contract Items':

	Asphalt Curing Seal									
	Asphalt Prime Coat									
	Asphalt Material for Tack									
	Asphalt Materials for Preventive Maintenance applications Asphalt Seal Coat									
Section:	109.07.02 Fuel									
Revision:	Change the Fuel/Work ratio for the items listed below:									
	<u>Item Threshold Quantity Fuel/Work</u>									
	Drainage Blanket, Asphalt Treated 5,000 tons 0.75									
	Asphalt Mixtures for									
	Pavements or Shoulders 3,000 tons 0.75									
Section:	214.03 CONSTRUCTION									
Revision:	Add the following as the final paragraph in the section:									
	Demonstrate to the Engineer that the placement technique prevents damage to the fabric.									
Section:	214.03 CONSTRUCTION									
Subsection:	214.03.03 Slope Protection and Channel Lining									
Revision:	Replace the first paragraph with the following:									
	Place geotextile fabric for slope protection / geotextile fabric for channel lining with the long	g								
	dimension parallel to the channel or toe of slope.									
Section:	214.03 CONSTRUCTION									
Subsection:	214.03.04 Underdrains									
Revision:	Replace the first sentence in the subsection with the following:									
	Place and shape geotextile fabric for subsurface drainage to the sides and bottom of the trend	ch								
	without stretching the fabric.									
Section:	214.03 CONSTRUCTION									
Subsection:	214.03.05 Subgrade or Embankment Foundation Stabilization									
Revision:	Rename the subsection as follows: Subgrade Stabilization / Rock Roadbed									
Section:	214.03 CONSTRUCTION									
Subsection:	214.03.05 Subgrade Stabilization / Rock Roadbed									
Revision:	Replace the first (1st) paragraph of the subsection with the following:									
	Place geotextile fabric for stabilization, unless otherwise noted. Install with the long dimens	sion								
	parallel to the long dimension of the area to be covered.									

Section:	214.03 CONSTRUCTION								
Subsection:	214.03.05 Subgrade Stabilization / Rock Roadbed								
Revision:	Add the following as the final paragraph in the section:								
	Place, spread, and compact rock or backfill in such a manner that minimizes the development of wrinkles and movement in the fabric. In curves and intersections, cut the fabric and overlay appropriately. Keep the turning of tracked vehicles to a minimum to prevent displacement of the fill and damage to the fabric. Repair any damage caused during placement or by vehicles.								
Section:	214.03 CONSTRUCTION								
<b>Subsection:</b>	214.03.06 Drainage Blanket								
Revision:	Replace the first sentence in the subsection with the following:								
	Place geotextile fabric for subsurface drainage with the long dimension parallel to the long								
	dimension of the area to be covered.								
Section:	214.03 CONSTRUCTION								
Subsection:	214.03.07 Embankment Foudation Working Platform								
Revision:	Add the following as new subsection 214.03.07:								
	214.03.07 Embankment Foundation Working Platform. To facilitate embankment construction over soft ground, place geotextile fabric for separation unless otherwise specified. Place as directed in the plans or by the Engineer. Install with the long dimension parallel to the long dimension of the area to be covered. Leave surface vegetation in place.  During back dumping and spreading, do not allow the wheels of trucks, dozer blades, and other equipment to come into direct contact with the fabric. Spread the material in the direction of the fabric overlap. To avoid damage to the geotextile fabric, dump rock fill behind the leading edge of the rock layer, then blade into place. Repair any damage caused during placement or by vehicles. If large fabric wrinkles develop during spreading operations, fold and flatten the wrinkles in the direction of spreading. Avoid large folds which reduce the fabric overlap width.								
Section:	214.05 PAYMENT								
Revision:	Remove the following from list of pay items:								
	02596-02599 Fabric-Geotextile, Type Square Yard								
Section:	214.05 PAYMENT								
Revision:	Add the following to the list of pay items:								
	02602 Fabric-Geotextile Class 1 Square Yard								
	02603 Fabric-Geotextile Class 2 Square Yard								
Section:	215.02 MATERIALS								
<b>Subsection:</b>	215.02.01 Geotextile Fabric								
Revision:	Replace the text in this subsection with the following:								
	Conform to Section 843.								

Section:	215.03 CONST	RUCTION						
Revision:		ond sentence in the	final para	graph wit	h the following:			
i	Place a protective ring using geotextile fabric for subsurface drainage and separation; clean I							
İ	2 aggregate or shot rock of similar size, quality, and gradation approved by the Eng							
<u> </u>	crushed aggregate.							
Section:	215.05 PAYMENT							
Revision:	Remove the following from list of pay items: 02596-02599 Fabric-Geotextile, Type Square Yard							
Section:	215.05 PAYMENT							
Revision:	Add the follow	ing to the list of pay	items:					
İ	02602	Fabric-Geotextile C						
	02603	Fabric-Geotextile C	lass 2 Sc	quare Yar	d			
Section:	402.05.02 Aspl	nalt Mixtures, HMA	and WM	A, Includ	ing Mixtures with Reclaimed Material			
Revision:		t sentence in this sec						
<u>.                                    </u>					nal overall bid item pay.			
Section:	402.05.02 Aspl	nalt Mixtures, HMA	and WM	A, Includ	ing Mixtures with Reclaimed Material			
Part:								
I	AV Replace the table with the following:							
Table: Revision:					1			
			y:					
			V Test:	Result				
		A	V Test	%)				
		A	V Test:	%)				
		A	Test:	AADTT				
		A	Test:	AADTT Class 3				
		Pay Value	Test:  (SAADTT Class 2 3.2-3.8	AADTT Class 3 or 4				
		Pay Value	V Test: (SAADTT Class 2 3.2-3.8 1.5-3.1	AADTT Class 3 or 4 3.2-3.8				
		1.05 1.00 + 0.1 (AV-3.0)	V Test: (SAADTT Class 2 3.2-3.8 1.5-3.1	AADTT Class 3 or 4 3.2-3.8 2.0-3.1				
		1.05 1.00 + 0.1 (AV-3.0) 1.00 + 0.1 (4.5-AV)	V Test: (5) AADIT Class 2 3.2-3.8 1.5-3.1 3.9-6.0	AADTT Class 3 or 4 3.2-3.8 2.0-3.1				

Section: Part: 402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures with Reclaimed Material LOT PAY ADJUSTMENT SCHEDULE COMPACTION OPTION A SURFACE MIXES

Table:

AV

**Revision:** 

Replace the table with the following:

AV					
Pay Value	Test Result				
	(9	6)			
	AADTT	AADTT			
	Class 2	Class 3			
		or 4			
1.05	3.2-3.8	3.2-3.8			
1.00 + 0.1 (AV-3.0)	1.5-3.1	2.0-3.1			
1.00 + 0.1 (4.5-AV)	3.9-6.0	3.9-6.0			
0.75	6.1-6.5				
(1)	< 1.5 or	< 2.0 or			
	> 6.5	> 6.0			

Section:

403.03.03 Preparation of Mixture

Part: Subpart:

5)

Revision:

Add new subpart 5 and Table.

5) Mix Performance Verification. FOR ALL 0.5-inch and 0.38-inch nominal surface mixtures with PG 64-22, ensure that the following limits are met of exceeded to obtain approval:

Mix Design Performance Limits						
Class	KYCT Index <sup>2</sup> (min)					
2	7,500	95				
3	10,000	95				
4	10,000	125				

<sup>&</sup>lt;sup>1</sup> Mixture rutting resistance shall meet the above number of passes for a critical rut depth of ½" (12.5 mm). The "Hamburg Passes" value is determined by averaging the results from both sides of the test.

<sup>&</sup>lt;sup>2</sup> Test in accordance with KM 64-450.

Section:	501.03.019 Surface Tolerances and Testing Surface							
Part:	B) Ride Quality							
Subpart:	2) Category A Requirements							
Revision:	Replace the last sentence in the first paragraph with the following:							
	At the Department's discretion, a pay deduction of \$1200 per 0.1-lane-mile section may be							
	applied in lieu of corrective work.							
Section:	501.03.19							
Part:	B)							
Subpart:	3) Category B Requirements							
Revision:	Replace the last sentence in the first paragraph with the following:							
	At the Department's discretion, a pay deduction of \$750 per 0.1-lane-mile section may be							
	applied in lieu of corrective work.							
Section:	508.03 CONSTRUCTION							
Revision:	Replace the second sentence with the following:							
	Use Class AA concrete according to Subsection 601.03.							
Section:	508.05 Payment							
Revision:	Add the following codes to available Concrete Median Barrier, Type: 01968-01977							

Section:

601.03.03 Proportioning and Requirements

Part: B) Mortar, Grout, Flowable Fill, and Self-Consolidating Concrete 5) Flowable Fill Subpart: Replace subpart 5) with the following: Revision: 5) Flowable Fill. Use flowable fill consisting of a mixture of cement, sand, fly ash, water, and other materials the Engineer approves. Contrary to Section 844, do not allow the loss on ignition for Class F fly ash to exceed 12 percent. Ensure that the concrete producer certifies mix proportions for flowable fill Flowable Fill for Pipe Backfill (excavatable). Proportion as follows, per cubic yard batch: Cement 30 pounds Fly Ash, Class F Natural Sand (S.S.D.) 300 pounds 3,000 pounds Water (Maximum) 550 pounds Flowable Fill for Bridge End Bent Backfill. Proportion as follows, per cubic yard batch 100 pounds Fly Ash, Class F or Class C 300 pounds 2,950 pounds Natural or Crushed Sand (S.S.D.) 550 pounds Water (Maximum) Alternate Mixtures for Flowable Fill. The Department may approve other mixtures. The mixtures may include other proportions of the above materials, Class C fly ash, chemical admixtures, air entrainment, air entraining admixture designed for use in flowable fill, foaming agents, or aggregate not conforming to the Standard Specifications. The contractor shall submit a mix design that will produce a non-segregating mixture meeting the following properties and verified by trial batch. Flow Consistency (min) ASTM D6103 Compressive - Pipe Backfill (min 28 day) ASTM D4832 Compressive - End Bent Backfill (min 28 day) ASTM D4832 Compressive - Pipe Backfill (max 90 day) 120psi ASTM D4832 Air Content (max) 30% ASTM D6023 Early Opening Support min 170 lb individual Within 3 hours Visual Determination When proposing an alternate mix, make and test a trial batch of at least 4 cubic yards to ensure that the mix will have flow and density characteristics Deleted: When deviating from the above specified proportions and materials suited for the intended use. Use the ingredients, proportions, and equipment intended for the project, including batching, mixing, and delivery The Department will observe all phases of the trial batching for approval. Ensure the proposed mixture is proportioned to obtain a minimum flow of 8 inches when tested with a 3 by 6 inch open ended cylinder modified flow test and meets applicable strength requirements. Ensure additional requirements, as stated above, for time of bleeding and time to achieve firmness are met Deleted: below when appropriate for application. Submit the proposed mixture proportions and appropriate test results to the Engineer for review and approval. When the mixture is proprietary, comply with Subsection 107.05. The Department will cast, cure, and break test cylinders from the flowable fill trial batch according to ASTM D 4832 using 4x8 cylinders. Prior to completion of the 28 day curing period, transport the test cylinders to the MCL for compressive strength testing. Obtain an average compressive strength of 50 to 100 psi at 28 days for application as pipe backfill or minimum compressive strength of 250 psi at 28 days for application as bridge end bent backfill. For applications requiring early opening to traffic or

Deleted: 1) Mixture bleeds freely within 10 minutes.

Require the mixture to support a 150-pound person within

placement of pavement as soon as possible, provide a mixture that conforms

on certifications indicating proper proportions for the intended use.

The Engineer will approve flowable fill, delivered to the project, based

to the following general guidelines:

Section:	603.03.05 Drainage						
Revision:	In the eighth (8th) paragraph, remove "type IV" from the fabric references in the first (1st) and						
	third (3rd) sentences.						
Section:	607.03.02						
Part:	(a) Prequalification						
Revision:	Remove the following item to the list entitled "Fabricators having SBR, IBR, ABR, or CPT						
	certification may fabricate the following":						
	· Armored Edges						
Section:	607.03.02						
Part:	(a) Prequalification						
Revision:							
	add the following items to the list entitled "AISC certification <b>not</b> required for the following":						
	· Armored Edges or joints with a nominal width of 4 inches or less						
	· Railing System Type II						
Section:	609.05 PAYMENT						
Revision:	add the following line to the table "Schedule for Adjusted Quantity for Depth of Cover						
	Deficiency"						
	Depth of Cover Deficiency (inches) +0.26 to +0.50 <sup>(4)</sup>						
	Quantity Adjustment Factor 0.06						
Section:	609.05 PAYMENT						
Part:	Note (4) under "Schedule for Adjusted Quantity for Depth of Cover Deficiency"						
Revision:	Replace note (4) with the following:						
	Quantity Adjustment Factor only applies if the Contractor elects to have the bridge deck cored						
	as per KM 64-313. If the Contractor accepts adjustment based on the pachometer readings, this						
~ .	Quantity Adjustment Factor is 0.00.						
Section:	615 PRECAST THREE SIDED STRUCTURES						
Revision:	Insert complete Section 615 701.05 PAYMENT						
Section:	7						
Revision:	Remove the following from the list of pay items:						
~ .	02600 Fabric-Geotextile Type IV for Pipe Square Yard (2)						
Section:	701.05 PAYMENT						
Revision:	Add the following to the list of pay items:						
	02600 Fabric-Geotextile Class 2 for Pipe Square Yard (2)						
Section:	701.05 PAYMENT						
Revision:	Replace "Type IV" in the item name in note (2) with "Class 2"						

Section:	715.02.07 "Pop" Fasteners							
Revision:	Remove this section in its entirety.							
Section:	715.01 DESCRIPTION							
Revision:	Replace the second sentence with the following:							
IXC VISIOII.	Panel Signs may be ground mounted, overhead structure mounted, or bridge mounted signs							
Section:	715.02.03 Steel Reinforcement							
Revision:	Change section reference from 602 to 811.							
Section:								
	715.03 CONSTRUCTION							
Revision:	Remove all but the first paragraph from this Section. 715.03 will now read as follows: The Department may inspect fabrication and erection work. The Department will perform a day and night inspection after the installation is complete.							
Section:	715.03.01 Location							
Revision:	Remove the first and fourth sentences from this Section, and insert 'to the plans' into the final							
Kevision.	sentence. The Section will now read as follows:							
	Consider sign locations specified in the Plans as approximate only.							
	Determine the exact location for each sign and obtain the Engineer's approval. Center overhead							
	signs over the lane or lanes to which they apply.							
	Allow for differences in elevation across the full shoulder width, as specified in the Plans,							
	in maintaining the required 18-foot minimum vertical clearance to the bottom of the lowest							
	parts of the signs or supports for overhead signs. Submit all proposed revisions to the plans in							
	writing to the Engineer for written approval.							
Section:	715.03.02 Messages							
Revision:	Delete entire Section							
Section:	715.03.03 Attachment							
Revision:	Renumber as 715.03.02 Attachment							
Section:	715.03.02 Attachment							
Revision:	Replace section with the following:							
	Letters, symbols, numbers, and borders are to be attached to the sign face using the 'direct							
a	applied' method.							
Section:	715.03.04 Shields							
Revision:	Delete entire Section							
Section:	715.03.05 Covering							
Revision: Section:	Renumber as 715.03.03 Covering 715.03.06 Shop Drawings							
Section: Revision:	Renumber as 715.03.04 Shop Drawings							
Section:	715.03.07 Fabrication							
Revision:	Renumber as 715.03.05 Fabrication							
Section:	715.03.08 Footings, Bases, and Pedestals							
Revision:	Renumber as 715.03.06 Footings, Bases, and Pedestals							
110 1131011.	premiuse as 7 10 00 00 1 00 mgs, Duobo, and 1 0000 mis							

Section:	715.03.06 Footings, Bases, and Pedestals					
Revision:	Add the following as the first sentence in the third paragraph:					
	Use Class A concrete according to Subsection 601.03.					
Section:	715.03.09 Sign Beams and Supports					
Revision:	Renumber as 715.03.07 Sign Beams and Supports					
Section:	715.03.07 Sign Beams and Supports					
Revision:	Remove "and Type "B" " from the third sentence in the first paragraph.					
Section:	715.03.07 Sign Beams and Supports					
Part:	B)					
Revision:	Remove part B) Type B Beam					
Section:	715.03.07 Sign Beams and Supports					
Part:	C) Type C Beam					
Revision:	Change part number as follows:					
	B) Type C Beam					
Section:	715.03.07 Sign Beams and Supports					
Part:	C) Type D Breakaway Supports					
Revision:	New part C) after removal of Type B Beam from list with text as follows:					
	Specifications for Type D breakaway supports are listed on the details sheet for Type "D"					
	supports.					
Section:	715.03.10 Bridge Mounting for Signs					
Revision:	Renumber section as 715.03.08 Bridge Mounting for Signs					
Section:	715.03.11 Mounting Signs					
Revision:	Renumber section as 715.03.09 Bridge Mounting for Signs					
Section:	715.03.10 Logo Signs					
Revision:	Insert new section 715.03.10 Logo Signs, with text as follows:					
	Unless directed in the project plans, existing logo panel signs are to be kept in service during					
	construction. Contact the logo contractor if signs are to be out of service for more than one day.					
	Temporary installations shall be on square wood posts (with the holes drilled in the bottom, per					
	the detail sheet, for locations not protected by guardrail, barrier wall, etc.).					
Section:	715.04.03 Sign Supports					
Revision:	Replace the second paragraph with the following:					
	The Department will not measure clearing and grubbing or excavation for payment and will					
	consider them incidental to this item of work.					
Section:	715.04.06 Sign Panels					
Revision:	add the following as the second paragraph in this section:					
	The Department will not measure temporary panel signing for payment and will consided them					
	incidental to this item of work.					
Subsection:	716.03.10 Electrical Junction Box					
Part:	B) Filter Fabric					
<b>Revision:</b>	rename part B) to the following: Geotextile Fabric					

Subsection:	716.03.1	10 Electric	al Junction Box							
Part:	B) Geot	extile Fabi	ric							
Revision:	Replace	the first se	entence the part v	with the following:						
	Before t	he installa	tion of the #57 a	ggregate and junction box, the co	ontractor shall ins	tall				
	geotexti	le fabric fo	or subsurface dra	inage and separation in the botto	om of hole.					
Subsection:			te, Class AA (for							
Revision:			ction with the fo							
				he quantities of Concrete Class						
	reinforcement for payment, and will consider them incidental to Crash Cushion Type VII,									
		ype VI-T.								
<b>Subsection:</b>		PAYMEN'								
Revision:			ving from the list	= -						
	08104		,	Cubic Yard						
<b>Subsection:</b>		REQUIRE								
Revision:			aragraph with the							
				d hydraulic cement from approve						
				terials. Mills obtain approval by						
				ver the previous 6 months along						
				cement mill laboratories shall be						
				cements are permitted for inclu-						
				equirements and submit an accep						
				ne services of) a laboratory that i						
				nent with a SO3 content above the						
		-	•	C 1038 14-day expansion test dat	ta for the supplied	SO3				
		on the cert								
Subsection:		REQUIRE	MENTS							
Part:	3)									
Subpart:	a)									
Revision:			d sentence with the							
G				he fly ash does not exceed 4.0 pe	ercent.					
Section:			ements for Comb							
Revision:	Replace	the table v	with the followin	g:						
			FINE AGGE	REGATE CONSENSUS PROPER	ГҮ					
				REQUIREMENTS	Г					
				Uncompacted Void Content						
				of Fine Aggregate (Percent), <sup>(1)</sup> Minimum	Sand Equivalent					
		AADTT Class	Design AADTT	Minimum	(Percent), Minimum					
		2	<600	40.0	40					
		3	600 to 2999	43.0	45					
	1 1	4	>3000	45.0	50					
ı	I	7	- 3000	43.0	50					
	l .									

Section: Revision:		.01 GENER place the sec	AL. ond paragraph witl	h the following:					
	Cla	ss A and Cl		stant Aggregate S	Sources, the Con	te Source List and the crete Aggregate Re te Source List.			
Section: Revision:	804.04.05 Microsurface.  Modify the Table as follows:								
Revision:		sieve Size /8 inch Jo. 4 Jo. 8 Jo. 16 Jo. 30 Jo. 50 Jo. 100 Jo. 200	Type II  % Passing 100 90-100 65-9060-90 45-7040-70 30-5925-50 18-3915-30 10-21 5-15		Type III % Passing 100 70-9070-100 45-70 28-50 19-34 12-25 7-18 5-15	Stockpile Toles  2			
Section: Revision:	805.01 GENERAL. Replace the second paragraph with the following:  The Department's List of Approved Materials includes the Aggregate Source List, the list Class A and Class B Polish-Resistant Aggregate Sources, the Concrete Aggregate Restricti List, Lightweight Aggregate Source List, and Microsurface Aggregate Source List.								
Section: Revision:			TURES AND SE.						
	COARSE AGGREGATE CONSENSUS PROPERTY REQUIREMENTS								
		AADTT Class	Design AADTT	Coarse A Angu (Perc	ggregate larity	Flat and  Elongated <sup>(i)</sup> (Percent), maximum			
		2	<600	85	80	10			
		3	600 to 2999			10			
		4	≥ 3000	95 100	90	10			
		<sup>(1)</sup> Criterion	based on a 5:1 n	naximum-to-mi	nimum ratio.				

**Section:** 806.03.01 General Requirements Revision: Revise the table with the following edited Dynamic Shear values: PG BINDER REQUIREMENTS AND PRICE ADJUSTMENT SCHEDULE PG 58-28 (PG 58S-28) Test Specification 100% Pay 90% Pay 80% Pay 70% Pay 50% Pay Original Binder Dynamic Shear, G\*/sinδ 1.00 kPa Min. 1.00-0.95 0.94-0.90 0.89-0.85 0.84-0.80 < 0.80 Viscosity 3 Pa·s RTFO Residue Mass Loss, % 1.00 Max. 1.01-1.10 1.11-1.20 1.21-1.30 1.31-1.40 > 1.40 MSCR  $J_{nr3.2}$ , Max. 4.5 kPa<sup>-1</sup> < 4.7 4.71-4.75 4.76-4.80 4.81-4.85  $\ge 4.86$ J<sub>nr diff</sub>, Max 75 % PAV Aging BBR Creep Stiffness 300 MPa Max. 300-315 316-330 331-345 346-360 > 360 m-value 0.300 Min. 0.290-0.300 0.285-0.289 0.280-0.284 0.275-0.279 < 0.274 Dynamic Shear, G\*sinδ @ 25 °C (2) 5,000 kPa Max 6,000 kPa Max 0-5,200 0-6,200 5,101-5,300 6,201-6,300 5,301-5,400 6,301-6,400 5,401-5,500 6,401-6,500 > 5,501 > 6,501 PG 64-22 (PG 64S-22) 80% Pay 70% Pay 50% Pay( Test Specification 100% Pay 90% Pay Original Binder Dynamic Shear, G\*/sinδ 1.00 kPa Min. 1.00-0.95 0.94-0.90 0.89-0.85 0.84-0.80 < 0.80 Viscosity 3 Pa·s RTFO Residue Mass Loss, % 1.00 Max. 1.01-1.10 1.11-1.20 1.21-1.30 1.31-1.40 > 1.40 MSCR 4.5 kPa<sup>-1</sup> < 4.7 4.71-4.75 4.76-4.80 4.81-4.85 > 4.86  $J_{nr3.2}$ , Max. 75 % J<sub>nr\_diff</sub>, Max. PAV Aging BBR Creep Stiffness 300 MPa Max 300-315 316-330 331-345 346-360 > 360 m-value 0.300 Min. 0.290-0.300 0.285-0.289 0.280-0.284 0.275-0.279 < 0.274 5,000 kPa Max. 6,000 kPa Max. <del>5,201-5,300</del> 6,201-6,300 <del>5,301-5,400</del> 6,301-6,400 5,401-5,500 6,401-6,500 0-5,200 0-6,200 > 5,501 > 6,501 Dynamic Shear, G\*sinδ Section: 806.03.01 General Requirements. **Revision:** Revise the Table with the following corrected values: RTFO Residue Mass Loss, % 1.00 Max. 1.01-1.10 1.11-1.20 1.21-1.30 1.31-1.40 > 1.40 MSCR < 4<del>.7</del>0.7 0.5 kPa<sup>-1</sup> 4.71 4.76 4.81  $\geq 4.860.86$  $J_{nr3.2}$ , Max <del>4.80</del><u>0.76-</u> 4<del>.75</del>0.71-0.75 4.85<u>0.81-</u> 0.85 0.80 75 %

J<sub>nr. diff</sub>, Max

Section:	805.03.02 Physical Properties					
Revision:	Replace the first 2 lines in this section with the following:					
	Wear (Except Slag, Granite, and Sandstone) 40% maximum					
	Wear (Granite and Sandstone) 50% maximum					
Section:	814.06 MATERIALS FOR END TREATMENTS					
Part:	A) Anchorage Systems					
Revision:	Revise the minimum breaking strength to be 42,800, and replace reference to AASHTO M 3					
	Class C with AASHTO M 30, Class A.					
Section:	830.02.01 Delineator Sheeting					
Part:	A) Barrier Wall Delineator					
Revision:	Replace text with the following:					
	Use retroreflective sheeting conforming to ASTM D 4956, Type XI, Class 1.					
Section:	830.02.01 Delineator Sheeting					
Part:	B) Guardrail Delineator					
Revision:	Replace text with the following:					
	Use retroreflective sheeting conforming to ASTM D 4956, Type XI, Class 1.					
Section:	830.02.01 Delineator Sheeting					
Part:	C) Delineator Post					
Revision:	Replace text with the following:					
	Use retroreflective sheeting conforming to ASTM D 4956, Type XI, Class 1.					
Section:	830.02.03 Drum Sheeting					
Revision:	Replace text with the following:					
	Use retroreflective sheeting conforming to ASTM D 4956. Use approved types for necessary					
	colors on the Department's List of Approved Materials.					
Section:	830.02.03 Drum Sheeting					
Revision:	Add the following sentence to the end of the section:					
	White and fluorescent orange sheeting, both Type IV or higher, will be required for all drums					
	utilized for Maintenance of Traffic.					
Section:	830.02.04 Cone and Tubular Marker Sheeting					
Revision:	Rename the Section "830.02.04 Cone, Vertical Panel, and Tubular Marker Sheeting					
Section:	830.02.04 Cone and Tubular Marker Sheeting					
Revision:	Replace text with the following:					
	Use retroreflective sheeting conforming to ASTM D 4956. Use approved types for necessary					
	colors on the Department's List of Approved Materials.					
Section:	830.02.04 Cone, Vertical Panel, and Tubular Marker Sheeting					
Revision:	Add the following sentence to the end of the section:					
	White and fluorescent orange sheeting, both Type IV or higher, will be required for all vertical					
	panels, tubular markers, and 42-inch cones utilized for Maintenance of Traffic.					
Section:	830.02.06 Permanent Sign Sheeting					
Revision:	Replace text with the following:					
	Use retroreflective sheeting conforming to ASTM D 4956, Type XI, Class 1.					
Subsection:	834.07.05 Geotextile Filter Fabric Type IV					
Revision:	Change the subsection title to the following: Geotextile Fabric					
Section:	837.03 APPROVAL					
Revision:	In the first sentence, replace 'AASHTO T-250' with 'KM 64-268'					
Section:	837.03 APPROVAL					
Revision:	Replace this section with the following:					
	Select materials that conform to the composition and physical characteristic requirements below					
	when evaluated in accordance with KM 64-268 or other test methods as cited. The Department					
	will obtain samples of thermoplastic material for compliance testing to the requirements of this					
	sections in accordance with the Department's Materials Field Sampling Manual.					
	between in activation with the Department of Materials I feed bumping manager					

Section:	837.03.01 Composition						
Revision:	Add the following sentence to the end of the paragraph:						
	Manufacturers are to produce extruded thermoplastic in compliance with the values listed in						
	Table 1.						
Section:	837.03.01 Composition						
Revision:	Label Composition table as new subsection '837.03.02 Table 1'.						
Section:	837.03.02 Physical Characteristics						
Revision:	Renumber subsection as 837.03.03						
Section:	837.06 MANUFACTURER'S TESTING						
Revision:	In the first sentence, replace 'AASHTO T-250' with 'KM 64-268'						
Section:	837.09 ACCEPTANCE OF NON-SPECIFICATION COMPLIANT THERMOPLASTIC						
Revision:	Add new subsection with the following text:						
	The Department may accept thermoplastic found to be in non-conformance to the Specification						
	Acceptance Range at a reduction in pay, see Table 2. Thermoplastic with analytical test results						
	not conforming to the Specification Acceptance Range but within the Acceptance Range with						
	Deduction may be accepted for incorporation into the project with applicable reductions in pay.						
	Deductions are cumulative to a maximum of 60% reduction in pay applied to the contract unit						
	bid price for the thermoplastic. Thermoplastic with three (3) or more analytical tests resulting						
	in non-conformance to the Specification Acceptance Range or any analytical test result						
	exceeding the Acceptance Range with Deduction will be rejected and removed from the project.						
	Do not allow transfer of thermoplastic materials between projects that have analytical test						
	results in the Acceptance Range with Deduction.						
Section:	837.10 Table 2						
Revision:	Add new subsection titled 'Table 2' with the following table:						
	ő						
	837.10 Table 2.						
	THERMOPLASTIC PRICE ADJUSTMENT SCHEDULE Deduction						
		Specification	Acceptance Range	Applied to Unit			
	Analytical Test Binder, %	Acceptance Range 18.0 min.	with Deduction 16.0 -17.9	Cost 50%			
	Glass Beads %	18.0 11111.	10.0 -17.9	3070			
	(Premixed)	30-40	28-30	20%			
	Titanium Dioxide, % for white	10.0 min.	9.0 -9.9	20%			
	Calcium	10.0 11111.	J.0 -J.J	2070			
	Carbonate and						
	Inert Fillers for white,	42.0 max.					
	Calcium	1210 111111					
	Carbonate and Inert Fillers for						
	Yellow,	50.0 max.					
	Heavy Metals	~ 1 14					
	Content	Comply with 40 CFR 261					
	Color	6.0 ΔE*	6.0 ΔΕ*- 8.0 ΔΕ*	10%			
Cubaasti	QAA OI EI V ACH DEO	HIDEMENITO					
	bsection: 844.01 FLY ASH REQUIREMENTS						
Revision:	Replace the first paragraph with the following, in order to increase the loss on ignition to 4.0						
	percent: For fly ash added to concrete mixtures as a separate ingredient, conform to ASTM C 618, Class						
	_				10 01		
	For fly ash added to con						
	_	sure that the loss on	ignition does not exce				