SUBSECTION:	101.02 Abbreviations.								
REVISION:	Insert the following abbreviation and text into the section:								
	KEPSC Kentucky Erosion Prevention and Sediment Control								
SUBSECTION:	101.03 Definitions.								
REVISION:	Replace the definition for Specifications – Special Provisions with the following:								
	Additions and revisions to the Standard and Supplemental Specifications covering conditions								
	peculiar to an individual project.								
SUBSECTION:	102.03 Contents of the Bid Proposal Form.								
REVISION:	Replace the first sentence of the first paragraph with the following:								
	The Bid Proposal form will be available on the Department internet website								
	(http://transportation.ky.gov/contract/).								
	Delete the second paragraph.								
	Delete the last paragraph.								
SUBSECTION:	102.04 Issuance of Bid Proposal Form.								
REVISION:	Replace Heading with the following:								
	102.04 Bidder Registration.								
	Replace the first sentence of the first paragraph with the following:								
	The Department reserves the right to disqualify or refuse to place a bidder on the eligible bidder's								
	list for a project for any of the following reasons:								
	Replace the last sentence of the subsection with the following:								
	The Department will resume placing the bidder on the eligible bidder's list for projects after the								
	bidder improves his operations to the satisfaction of the State Highway Engineer.								
SUBSECTION:	102.06 Examination of Plans, Specifications, Special Provisions, Special Notes, and Site of Work.								
REVISION:	Replace the first paragraph with the following:								
	replace die finst paragraph with die fonowing.								
	Examine the site of the proposed work, the Bid Proposal, Plans, specifications, contract forms, and								
	bulletins and addendums posted to the Department's website and the Bid Express Bidding Service								
	Website before submitting the Bid Proposal. The Department considers the submission of a Bid								
	Proposal prima facie evidence that the bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the Contract.								
	conditions to be encountered in performing the work and as to the requirements of the contract.								
SUBSECTION:	102.07.01 General.								
REVISION:	Replace the first sentence with the following:								
	Submit the Bid Proposal on forms furnished on the Bid Express Bidding Service website								
	(www.bidx.com).								
	Replace the first sentence of the third paragraph with the following:								
	Bid proposals submitted shall use an eligible Digital ID issued by Bid Express.								
L									

SUBSECTION:	102.07.02 Computer Bidding.								
REVISION:	Replace the first paragraph with the following:								
	Subsequent to registering for a specific project, use the Department's Expedite Bidding Program on the internet website of the Department of Highways, Division of Construction Procurement (<u>http://transportation.ky.gov/contract/</u>). Download the bid file from the Bid Express Bidding Service Website to prepare a Bid Proposal for submission to the Department. Submit Bid Proposal electronically through Bid Express Bidding Service.								
	Delete the second and third paragraph.								
SUBSECTION: REVISION:	102.08 Irregular Bid Proposals. Delete the following from the first paragraph: 4) fails to submit a disk created from the Highway Bid Program.								
	Replace the second paragraph with the following: The Department will consider Bid Proposals irregular and may reject them for the following reasons:								
	 when there are unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the Bid Proposal incomplete, indefinite, or ambiguous as to its meaning; or when the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a Contract pursuant to an award; or any failure to comply with the provisions of Subsection 102.07; or Bid Proposals in which the Department determines that the prices are unbalanced; or when the sum of the total amount of the Bid Proposal under consideration exceeds the bidder's Current Capacity Rating. 								
SUBSECTION: REVISION:	102.09 Bid Proposal Guaranty. Insert the following after the first sentence:								
	Bid Proposals must have a bid proposal guaranty in the amount indicated in the bid proposal form accompany the submittal. A guaranty in the form of a paper bid bond, cashier's check, or certified check in an amount no less than the amount indicated on the submitted electronic bid is required when the electronic bid bond was not utilized with the Bid Express Bidding Service. Paper bid bonds must be delivered to the Division of Construction Procurement prior to the time of the letting.								
SUBSECTION: REVISION:	102.10 Delivery of Bid Proposals. Replace paragraph with the following:								
	Submit all Bid Proposals prior to the time specified in the Notice to Contractors. All bids shall be submitted electronically using Bid Express Bidding Services. Electronically submitted bids must be done in accordance with the requirements of the Bid Express Bidding Service.								
SUBSECTION: REVISION:	102.11 Withdrawal or Revision of Bid Proposals. Replace the paragraph with the following:								
	Bid Proposals can be withdrawn in accordance the requirements of the Bid Express Bidding Service prior to the time of the Letting.								

SUBSECTION:	102.13 Public Opening of Bid Proposals.						
REVISION:	Replace Heading with the following: 102.13 Public Announcement of Bid Proposals.						
	Replace the paragraph with the following:						
	The Department will publicly announce all Bid Proposals at the time indicated in the Notice to						
	Contractors.						
SUBSECTION:	103.02 Award of Contract.						
REVISION:	Replace the first sentence of the third paragraph with the following:						
	The Department will normally award the Contract within 10 working days after the date of						
	The Department will normally award the Contract within 10 working days after the date of receiving Bid Proposals unless the Department deems it best to hold the Bid Proposals of any or all						
	bidders for a period not to exceed 60 calendar days for final disposition of award.						
SUBSECTION:	105.02 Plans and Working Drawings.						
REVISION:	Insert the following after the fourth paragraph:						
	Submit electrical shop drawings, design data, and descriptive literature for materials in electronic format to the Division of Traffic Operations for approval. Drawings and literature shall be						
	submitted for lighting and signal components. Notify the Engineer when submitting information to						
	the Division of Traffic Operations. Do not begin work until shop drawings are approved.						
	Submit shop drawings for traffic counting equipment and materials in electronic format to the						
	Engineer or the Division of Planning. Notify the Engineer when submitting information directly to						
	the Division of Planning. Do not begin work until shop drawings are reviewed and approved.						
SUBSECTION:	105.03 Record Plans.						
REVISION:	Replace the section with the following:						
	Record Plans are those reproductions of the original Plans on which the accepted Bid Proposal was based and, and signed by a duly authorized representative of the Department. The Department will						
	make these plans available for inspection in the Central Office at least 24 hours prior to the time of						
	opening bids and up to the time of letting of a project or projects. The quantities appearing on the						
	Record Plans are the same as those on which Bid Proposals are received. The Department will use						
	these Record Plans as the controlling plans in the prosecution of the Contract. The Department will not make any changes on Record Plans subsequent to their issue unless done so by an approved						
	contract modification. The Department will make 2 sets of Record Plans for each project, and will						
	maintain one on file in the Central Office and one of file in the District Office. The Department						
	will furnish the Contractor with the following: 1 full size, 2 half size and an electronic file copy of the Record Plans at the Pre-Construction conference.						

						
SUBSECTION: REVISION:	105.12 Final Inspection and Acceptance of Work. Insert the following paragraphs after the first paragraph:					
SUBSECTION:	Notify the Engineer when all electrical items are complete. A notice of the electrical work completion shall be made in writing to the Contractor. Electrical items will be inspected when the electrical work is complete and are not subject to waiting until the project as a whole has been completed. The Engineer will notify the Division of Traffic Operations within 3 days that all electrical items are complete and ready for a final inspection. A final inspection will be completed within 90 days after the Engineer notifies the Division of Traffic Operations of the electrical work completion. Energize all electrical items prior to notifying the Engineer that all electrical items are complete. Electrical items must remain operational until the Division of Traffic Operations has inspected and accepted the electrical operation of the project. Payment for the electrical service is the responsibility of the Contractor from the time the electrical items are energized until the Division of Traffic Operations has accepted the work. Complete all corrective work within 90 calendar days of receiving the original electrical inspection report. Notify the Engineer when all corrective work has been completed and the project is ready for a follow-up inspection. Upon re-inspection, if additional corrective work is required, complete within the same 90 calendar day allowance. The Department will not include time between completion of the corrective work and the follow up electrical inspections. The 90 calendar day allowance is cumulative regardless of the electrical service on a project once the Division of Traffic Operations gives final acceptance of the electrical items on the project. The Department will also assume routine maintenance of those items. Any damage done to accepted electrical work is menoprised. Paymeth for the engensibility of the Prime Contractor. The Department will not be responsible for repairing damage done by other contractor during the construction of the remaining project. Penalties will be assessed at ½ th					
REVISION:	Replace the last sentence of the 3. Bullet with the following:					
	If the Contractor did not submit an as-bid schedule at the Pre-Construction Meeting or a written narrative in accordance with Subsection 108.02, the Cabinet will not consider the claim for delay.					
	Delete the last paragraph from the section.					

SUBSECTION:	106.04 Buy America Requirement.							
REVISION:	Replace the section with the following:							
	 106.04 Buy America Requirement. Follow the "Buy America" provisions as required by Title 23 Code of Federal Regulations § 635.410. Except as expressly provided herein all manufacturing processes of steel or iron materials including but not limited to structural steel, guardrail materials, corrugated steel, culvert pipe, structural plate, prestressing strands, and steel reinforcing bars shall occur in the United States of America, including the application of: Coating, Galvanizing, Painting, and Other coating that protects or enhances the value of steel or iron products. 							
	The following are exempt, unless processed or refined to include substantial amounts of steel or iron material, and may be used regardless of source in the domestic manufacturing process for steel or iron material: • Pig iron,							
	 Processed, pelletized, and reduced iron ore material, or Processed alloys. 							
	The Contractor shall submit a certification stating that all manufacturing processes involved with the production of steel or iron materials occurred in the United States.							
	Produce, mill, fabricate, and manufacture in the United States of America all aluminum components of bridges, tunnels, and large sign support systems, for which either shop fabrication, shop inspection, or certified mill test reports are required as the basis of acceptance by the Department.							
	Use foreign materials only under the following conditions:							
	 When the materials are not permanently incorporated into the project; or When the delivered cost of such materials used does not exceed 0.1 percent of the total Contract amount or \$2,500.00, whichever is greater. 							
	The Contractor shall submit to the Engineer the origin and value of any foreign material used.							
SUBSECTION: REVISION:	106.10 Field Welder Certification Requirements. Insert the following sentence before the first sentence of the first paragraph:							
	All field welding must be performed by a certified welder unless otherwise noted.							
SUBSECTION: REVISION:	108.02 Progress Schedule. Insert the following prior to the first paragraph:							
	 Specification 108.02 applies to all Cabinet projects except the following project types: Right of Way Mowing and/or Litter Removal Waterborne Paint Striping Projects that contain Special Provision 82 Projects that contain the Special Note for CPM Scheduling 							
	Insert the following paragraph after paragraph two:							
	Working without the submittal of a Written Narrative is violation of this specification and additionally voids the Contractor's right to delay claims.							
	Insert the following paragraph after paragraph six:							
	The submittal of bar chart or Critical Path Method schedule does not relieve the Contractor's requirement to submit a Written Narrative schedule.							

	Insert the following at the beginning of the first paragraph of A) Written Narrative.:							
	Submit the Written Narrative Schedule using form TC 63-50 available at the Division of Construction's website (<u>http://www.transportation.ky.gov/construction/ResCenter/ResCenter.htm</u>).							
	Replace Part A) Written Narrative 1. And 2. with the following:							
	 Provide a description that includes how the Contractor will sequence and stage the work, how the Contractor plans to maintain and control traffic being specific and detailed, and what equipment and crew sizes are planned to execute the work. Provide a list of project milestones including, if applicable, winter shut-downs, holidays, or special events. The Contractor shall describe how these milestones and other dates effect the prosecution of the work. Also, include start date and completion date milestones for the contract, each project if the contract entails multiple projects, each phase of work, site of work, or segment of work as divided in the project plans, proposal, or as subdivided by the Contractor. 							
SUBSECTION: REVISION:	 109.07.01 Liquid Asphalt. Add the following to the Adjustable Contract Items: Stone Matrix Asphalt for Base Stone Matrix Asphalt for Surface 							
SUBSECTION: REVISION:	110.01 Mobilization. Replace paragraph three with the following:							
	Do not bid an amount for Mobilization that exceeds 5 percent of the sum of the total amounts bid for all items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives. The Department will automatically adjust any Bid Proposals that are in excess of this amount down to 5 percent to compare Bid Proposals and award the Contract. The Department will award a Contract for the actual amount bid when the amount bid for Mobilization is less than 5 percent, or the Department will award the Contract for the adjusted bid amount of 5 percent when the amount bid for Mobilization is greater than 5 percent. If any errors in unit bid prices for other Contract items in a Contractor's Bid Proposal are discovered after bid opening and such errors reduce the total amount bid for adjustments and incentives, so that the percent bid for Mobilization is larger than 5 percent, the Department will adjust the amount bid for Mobilization to 5 percent of the sum of the corrected total bid amounts.							
SUBSECTION: REVISION:	110.02 Demobilization. Replace the third paragraph with the following:							
	Bid an amount for Demobilization that is a minimum of \$1,000 or 1.5 percent of the sum of the total amounts bid for all other items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives. The Department will automatically adjust any Bid Proposal that is less than this amount up to \$1,000 or 1.5 percent to compare Bid Proposals and award the Contract. The Department will award a Contract for the actual amount bid when the amount bid for demobilization exceeds 1.5 percent, or the Department will award the Contract for the adjusted bid amount when the amount bid for demobilization is less than the minimum of \$1,000 or less than 1.5 percent of the sum of the total amounts bid for all other items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives.							
SUBSECTION: REVISION:	110.04 Payment. Insert the following paragraph following the demobilization payment schedule (4 th paragraph):							
	The Department will withhold an amount equal to \$1,000 for demobilization, regardless of the schedule listed above. The \$1,000 withheld for demobilization will be paid when the final estimate is paid.							

SUBSECTION: REVISION:	112.03.01 General Traffic Control. Replace paragraph three with the following:							
	All flaggers shall be trained in current MUTCD flagging procedures. Proof of training must be available for review at the Department's request. Flagging credentials must be current within the last 5 years.							
SUBSECTION:	112.03.11 Temporary Pavement Markings.							
PART:	B) Placement and Removal of Temporary Striping.							
REVISION:	Replace the 2 nd sentence of the first paragraph with the following:							
	On interstates and parkways, and other roadways approved by the State Highway Engineer, install pavement striping that is 6 inches in width.							
SUBSECTION:	112.03.12 Project Traffic Coordinator (PTC).							
REVISION:	Add the following at the end of the subsection:							
	After October 1, 2008 the Department will require the PTC to have successfully completed the							
	applicable qualification courses. Personnel that have not successfully completed the applicable							
	courses by that date will not be considered qualified. Prior to October 1, 2008, conform to							
	Subsection 108.06 A) and ensure the designated PTC has sufficient skill and experience to properly							
	perform the task.							
	·							
SUBSECTION:	112.03.15 Non-Compliance of Maintain and Control of Traffic.							
REVISION:	Add the following section:							
	112.03.15 Non-Compliance of Maintain and Control of Traffic. It is the Contractor's							
	responsibility to conform to the traffic control requirements in the TCP, Proposal, plan sheets,							
	specifications, and the Manual on Uniform Traffic Control Devices.							
	Unless specified elsewhere in the contract, a penalty will be assessed in the event of non-							
	compliance with Maintain and Control of Traffic requirements. These penalties will be assessed							
	when the Contractor fails to correct a situation or condition of non-compliance with the contract							
	traffic control requirements after being notified by the Engineer. The calculation of accrued							
	penalties for non-compliance will be based upon the date/time of notification by the Engineer.							
	The amount of the penalty assessed for non-compliance will be determined based upon the work							
	zone duration, as defined by the MUTCD, and will be the greatest of the different calculation							
	methods indicated below:							
	A) Long-term stationary work that occupies a location more than 3 days.							
	Correct the non-compliant issue within 24 hours from initial notification by the Engineer.							
	If the issue is not corrected within 24 hours from the initial notification, a penalty for non-							
	compliance will be assessed on a daily basis beginning from the initial notification of non- compliance. The Contractor will be assessed a \$1,000 daily penalty or the amount equal							
	to the contract liquidated damages in Section 108.09, whichever of the 2 is greater. The							
	penalty for non-compliance will escalate as follows for continued non-compliance after							
	the initial notification.							
	3 Days after Notification							
	\$1,500 daily penalty or 1.5 times the contract liquidated damages daily charge rate in							
	Section 108.09, whichever is greater.							
	······							
	7 Days after Notification							
	\$2,000 daily penalty or double the contract liquidated damages daily charge rate in							
	Section 108.09, whichever is greater.							
-								

B) Intermediate-term stationary work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than 1 hour.Correct the non-compliant issue within 4 hours from initial notification by the Engineer.							
If the issue is not corrected within 4 hours from notification, a penalty for non-compliance will be assessed on an hourly basis beginning from the initial notification of non-compliance. The penalty for non-compliance will be assessed at \$200 per hour.							
C) Short-term stationary is work that occupies a location for more than 1 hour within a single 24-hour period.							
Correct the non-compliant issue within 1 hour from initial notification by the Engineer. If the issue is not corrected within 1 hour from notification, a penalty for non-compliance will be assessed on an hourly basis beginning from the initial notification of non-compliance. The penalty for non-compliance will be assessed at \$200 per hour.							
If the Contractor remains in violation of the Maintain and Control of Traffic requirements, or if the Department determines it to be in the public's interest, work will be suspended in accordance with Section 108.08 until the deficiencies are corrected. The Department reserves the right to correct deficiencies by any means available and charge the Contractor for labor, equipment, and material costs incurred in emergency situations.							
206.03.02 Embankment							
Replace the last paragraph with the following:							
When rock roadbed is specified, construct the upper 2 feet of the embankment according to Subsection 204.03.09 A).							
213.03.03 Inspection and Maintenance.							
Replace the last sentence of the second paragraph with the following:							
Initiate corrective action within 24 hours of any noted deficiency and complete the work within 7 calendar days of receipt of the report. The Contractor shall make a concentrated effort to complete any corrective action required prior to the next predicted rainfall event.							
Insert the following paragraph after the second paragraph:							
When the Contractor is required to obtain the KPDES permit, it is their responsibility to ensure compliance with the inspection and maintenance requirements of the permit. The Engineer will perform verification inspections a minimum of once per month and within 7 days of a ½ inch or greater rainfall event. The Engineer will document these inspections using Form TC 63-61 A. The Engineer will provide copies of the inspection only when improvements to the BMP's are required. Verification inspections performed by the Engineer do not relieve the Contractor of any responsibility for compliance with the KPDES permit. Initiate corrective action within 24 hours of any noted deficiency and complete the work within 7calendar days of receipt of the report. The Contractor shall make a concentrated effort to complete any corrective action required prior to the next predicted rainfall event.							

SUBSECTION:	213.03.05 Temporary Control Measures.							
PART:	E) Temporary Seeding and Protection.							
REVISION:	Replace the first paragraph with the following:							
	Apply an Annual Rye seed mix at a rate of 100 pounds per acre during the months of March through August. In addition to the Annual Rye, add 10 pounds of German Foxtail-Millet (Setaria italica), when performing temporary seeding during the months of June through August. During the months of September through February, apply Winter Wheat or Rye Grain at a rate of 100 pounds per acre. Obtain the Engineer's approval prior to the application of the seed mixture.							
SUBSECTION:	213.03.05 Temporary Control Measures.							
PART:	F) Temporary Mulch.							
REVISION:	Replace the last sentence with the following:							
	Place temporary mulch to an approximate 2-inch loose depth (2 tons per acre) and anchor it into the soil by mechanically crimping it into the soil surface or applying tackifier to provide a protective cover. Regardless of the anchoring method used, ensure the protective cover holds until disturbance is required or permanent controls are in installed.							
SUBSECTION:	303.05 Payment.							
REVISION:	Replace the second paragraph of the section with the following:							
	The Department will make payment for Drainage Blanket-Type II (ATDB) according to the Lot Pay Adjustment Schedule for Specialty Mixtures in Section 402.							
SUBSECTION:	401.02.04 Special Requirements for Dryer Drum Plants.							
PART: REVISION:	F) Production Quality Control. Replace the first sentence with the following:							
KEVISION.	Replace the first sentence with the following.							
	Stop mixing operations immediately if, at any time, a failure of the automatic electronic weighing system of the aggregate feed, asphalt binder feed, or water injection system control occurs.							
SUBSECTION:	401.02.04 Special Requirements for Dryer Drum Plants.							
REVISION:	Add the following:							
	 Part G) Water Injection System. Provided each system has prior approval as specified in Subsection 402.01.01, the Department will allow the use of water injection systems for purposes of foaming the asphalt binder and lowering the mixture temperature for production of Warm Mix Asphalt (WMA). Ensure the equipment for water injection meets the following requirements: Injection equipment computer controls are automatically coupled to the plants controls (manual operation is not permitted); Injection equipment has variable controls that introduce water ratios based on production rates of mixtures; Injects water into the flow of asphalt binder prior to contacting the aggregate; Provides alarms on the water injection system that operate when the flow of water is interrupted or deviates from the prescribed water rate. 							
SUBSECTION:	401.03.01 Preparation of Mixtures.							
REVISION:	Replace the last sentence of the second paragraph with the following:							
	Do not use asphalt binder while it is foaming in a storage tank.							

SUBSECTION: REVISION:	401.03.01 Preparation of Mixtures. Replace the third paragraph and Mixing and Laying Temperature table with the following:								
	Maintain the temperature of the component materials and asphalt mixture within the ranges listed in								
	the following table:								
	MIXING AND LAYING TEMPERATURES (°F)								
	Material Minimum Maximum								
	Aggregates 240 330								
	Aggregates used with Recycle (RAP)	_							
	Asphalt Binders	PG 64-22 PG 76-22	230 285	330 350					
	Asphalt Mixtures at Plant	PG 64-22 HMA	250	330					
	(Measured in Truck)	PG 76-22 HMA	310	350					
		PG 64-22 WMA PG 76-22 WMA	230 250	275 300					
	Asphalt Mixtures at Project	PG 64-22 HMA	230	330					
	(Measured in Truck	PG 76-22 HMA	300	350					
	When Discharging)	PG 64-22 WMA	210	275					
		PG 76-22 WMA	240	300					
SUBSECTION:	402.01 Description.								
REVISION:	Replace the paragraph with	the following:							
	Provide the process control and acceptance testing of all classes and types of asphalt mixtures								
	which may be furnished either as hot mix asphalt (HMA) or warm mix asphalt (WMA) produced								
	with water injection systems		. ,						
SUBSECTION	402.01.01 Warm Mix Aspha		n and Approval.						
REVISION:	Add the following subsection	n:							
CURSECTION	402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval. The Department will evaluate trial production of WMA by use of a water injection system provided the system is installed according to the manufacturer's requirements and satisfies the requirements of Section 401. Evaluation will include production and placement of WMA to demonstrate adequate mixture quality including volumetric properties and density by Option A as specified in Subsection 402.03.02 D). Do not place WMA for evaluation on Department projects. Provided production and placement operations satisfy the applicable quality levels, the Department will approve WMA production on Department projects using the water injection system as installed on the specific asphalt mixing plant evaluated.								
SUBSECTION: REVISION:	402.05.02 Asphalt Mixtures Replace Subsection Title as		XAP.						
	402.05.02 Asphalt Mixtures	, HMA and WMA, Iı	ncluding Mixtures	With RAP.					
SUBSECTION: REVISION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Replace the paragraph with the following:								
	The Department will pay for the mixture at the Contract unit bid price and apply a Lot Pay Adjustment for each lot placed based on the degree of compliance with the specified tolerances. Using the appropriate Lot Pay Adjustment Schedule, the Department will assign a pay value for the applicable properties within each sublot and average the sublot pay values to determine the pay value for a given property for each lot. The Department will apply the Lot Pay Adjustment for each lot to a defined unit price of \$50.00 per ton. The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.								

SUBSECTION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.								
PART:	C) Conventional and RAP Mixtures Placed on Shoulders.								
REVISION:	Replace Title and Text with the following:								
	C) HMA, WMA and RAP Mixtures Placed on Shoulders or Placed as Asphalt Pavement Wedge.								
	 Placed monolithically with the Mainline – Width of 4 feet or less. The Department will pay as mainline mixture. 								
	 Placed monolithically with the Mainline – Width of greater than 4 feet. The Department will pay as mainline mixture but use 1.00 for the Lane and Joint Density Pay Value for shoulder or Asphalt Pavement Wedge quantities. 								
	 Placed Separately. The Department will use 1.00 for the Lane and Joint Density Pay Value. 								
SUBSECTION: PART: REVISION:	 402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. D) Conventional and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge. Replace the title with the following: D) HMA, WMA, and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge. 								
	Delete the following: D) HMA, WMA, and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge. The Department will pay as mainline mixture but use a 1.00 pay value for all properties.								
SUBSECTION:	402.05.02 Asphalt Mixtures for Temporary Pavement.								
PART: REVISION:	E) Asphalt Mixtures for Temporary Pavement.Replace E) Asphalt Mixtures for Temporary Pavement with the following:								
	D) Asphalt Mixtures for Temporary Pavement.								
SUBSECTION: PART: TABLES:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Lot Pay Adjustment Schedule, Compaction Option A, Base and Binder Mixtures VMA								
REVISION:	Replace the VMA table with the following:								
	VMA								
	Pay Value Deviation								
	From Minimum								
	$\begin{array}{c c} 1.00 & \geq \min. \text{VMA} \\ \hline 0.95 & 0.1 \text{-} 0.5 \text{ below min.} \end{array}$								
	0.90 0.6-1 0 below min.								
	(1) > 1.0 below min.								
SUBSECTION: PART: TABLES:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Lot Pay Adjustment Schedule, Compaction Option A, Surface Mixtures VMA								
REVISION:	Replace the VMA table with the following:								
	VMA								
	Pay Value Deviation From Minimum								
	$\begin{array}{c c} 1.00 & \geq \min. \text{VMA} \\ \hline 0.95 & 0.1 \text{-} 0.5 \text{ below min.} \end{array}$								
	0.90 0.6-1.0 below min.								
	(1) > 1.0 below min.								

SUBSECTION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.								
PART:	Lot Pay Adjustment Schedule, Compaction Option B Mixtures								
TABLE: REVISION:									
			V	MA					
			Pay Value	De	viation				
				_	Minimum				
			1.00		n. VMA	_			
			0.95).5 bel w nin.				
			0.9		below min.	-			
			(2)	> 1.0 b	elow min.				
SUBSECTION:	403.03.03 Prep	oration of Mix	turo				-		
PART:	C) Mix Design		luie.						
NUMBER:	1) Preliminary	Mix Design.							
REVISION:	Replace the las	t two sentence	s of the paragraph a	nd table	with the f	ollowing:	:		
	Complete the v	olumetric mix	design at the appr	opriate r	number of	f gyratior	ns as giv	en in the table	
	below for	the number	of 20-year ESAL's	s. The	Departme	ent will	define tl	he relationship	
	between E ranges as f		as given in the bid	items for	: Superpa	ive mixtu	res, and	20-year ESAL	
	Tunges us I	0110 10 5.							
						er of Gyr			
		Class 2	ESAL's (milli < 3.0	ons)	$\frac{N_{\text{initial}}}{6}$	N _{design} 50	N _{max} 75		
		3	3.0 to < 30.	0	7	75	115		
		4	<u>> 30.0</u>		8	100	160		
SUBSECTION:			ging, and Scratch Co	ourse.					
PART: REVISION:	A) Leveling an Replace the first		he first paragraph w	rst paragraph with the following:					
			ne mot paragraph w		, in a standard sta				
			dation requirements (control points) of AASHTO M 323 for base, binder, or neer directs.						
	surface as the E	ace as the Engineer directs.							
SUBSECTION:	403.03.09 Leveling and Wedging, and Scratch Course.								
PART:	B) Scratch Cou								
REVISION:	Replace the sec	eplace the second sentence of the first paragraph with the following:							
	Conform to the	gradation requ	uirements (control p	oints) of	AASHT	O M 323	for base,	binder, or	
	surface as the E		s						
SUBSECTION: REVISION:	407.01 DESCR Replace the first		he paragraph with t	he follow	ving.				
	replace the file	, sentence of t	paragraph with t		····Ð·				
	Construct a pavement wedge composed of a hot-mixed or warm-mixed asphalt mixture.								
SUBSECTION:	409.01 DESCR								
REVISION:	Replace the first	st sentence of t	he paragraph with the	he follow	ving:				
	Use reclaimed asphalt pavement (RAP) from Department projects or other approved sources in hot								
	mix asphalt (HMA) or warm mix asphalt (WMA) provided mixture requirements are satisfied.								
	_		_ · · ·						
SUBSECTION: REVISION:	410.01 DESCRIPTION. Delete the second sentence of the paragraph.								
ALVISION:	Delete the second sentence of the paragraph.								

SUBSECTION: REVISION:	410.03.01 Corrective Work. Replace the last sentence of the paragraph with the following:
	Provide a final surface comparable to the adjacent pavement that does not require corrective work in respect to texture, appearance, and skid resistance.
SUBSECTION: PART:	410.03.02 Ride Quality. B) Requirements.
NUMBER:	1) Category A.
REVISION:	Replace the last sentence of 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.
SUBSECTION: PART:	410.03.02 Ride Quality.
NUMBER:	B) Requirements.2) Category B.
REVISION:	Replace the second and third sentence of the first paragraph with the following:
	When the IRI is greater than 90 for a 0.1-mile section, perform corrective work, or remove and
	replace the pavement to achieve the specified IRI. At the Department's discretion, a pay deduction of \$750 per 0.1-lane-mile section may be applied in lieu of corrective work.
SUBSECTION.	
SUBSECTION: REVISION:	410.05 PAYMENT. Add the following sentence to the end of the first paragraph:
	The sum of the pay value adjustments for ride quality shall not exceed \$0 for the project as a whole.
SUBSECTION: REVISION:	413.05.02 CL3 SMA BASE 1.00D PG76-22. Insert the following sentence between the first and second sentence of the first paragraph:
	The Department will calculate the Lot Pay Adjustment using all possible incentives and
	disincentives but will not allow the overall pay value for a lot to exceed 1.00.
SUBSECTION:	413.05.02 CL3 SMA BASE 1.00D PG 76-22.
TABLE: REVISION:	JOINT DENSITY TABLE Replace the joint density table with the following:
KEVISION.	
	LANE DENSITY
	Pay Value Test Result (%)
	1.05 95.0-96.5 1.00 93.0-94.9
	0.95 92.0-92.9 or 96.6-97.0
	0.90 91.0-91.9 or 97.1-97.5
	(1) $< 91.0 \text{ or} > 97.5$
SUBSECTION:	413.05.03 CL3 SMA SURF 0.50A PG76-22 and CL3 SMA SURF 0.38A PG76-22.
REVISION:	Insert the following sentence between the first and second sentence of the first paragraph:
	The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the guarall pay value for a lot to avoud 1.00
	disincentives but will not allow the overall pay value for a lot to exceed 1.00.

SUBSECTION: TABLE: REVISION:	JOINT DENSIT		A PG76-22 and CL3 SMA h the following:	SURF 0.38A PG76-22.	
			DENSITY		1
		Pay Value	Lane Density Test Result (%)	Joint Density Test Result (%)	
		1.05	95.0-96.5	92.0-96.0	
		1.00	93.0-94.9	90.0-91.9	
		0.95	92.0-92.9 or 96.6-97.0	89.0-89.9 or 96.1-96.5	
		0.90	91.0-91.9 or 97.1-97.5	88.0-88.9 or 96.6-97.0	
		0.75		< 88.0 or > 97.0	
		(1)	< 91.0 or > 97.5		
SUBSECTION: REVISION:	501.05.02 Ride Add the followir		end of the first paragraph	:	
	The sum of the p whole.	ay value adjustme	ents for the ride quality sh	all not exceed \$0 for the	e project as a
SUBSECTION: REVISION:	505.03.04 Detec Replace the first	table Warnings. sentence with the	following:		
	Install detectable Standard Drawin		t all sidewalk ramps and o	on all commercial entrar	nces according to the
SUBSECTION: REVISION:	505.04.04 Detect Replace the para	able Warnings. graph with the fol	lowing:		
	projects will requ applicable to the incidental to the	ire the removal o project. The cost	quantity in square feet. A f existing sidewalks to me associated with the remo gs bid item or incidental t e noted.	eet the requirements of t val of the existing sidew	he standard drawings valk will be
SUBSECTION: REVISION:	505.05 PAYME Add the followin	NT. g to the bid item t	able:		
	<u>Code</u> 23158ES505	<u>Pay Item</u> Detectable Wa	Pay Unit arnings Square Foot	t	
SUBSECTION: REVISION:	509.01 DESCRI	PTION. nd paragraph with	the following:		
	The Department Research Program the Standard Dra length, material,	may allow the use n (NCHRP) 350 ' wings. Obtain the drain slot dimensi et or less from the	e of similar units that conf Test Level 3 (TL-3) require e Engineers approval prio- tions and locations typical e NCHRP 350 TL-3 for Te	rements and the typical f r to use. Ensure the bar features are met and the	features depicted by rier wall shape, reported maximum

GUDGEOPTON	(01.02.02 Commute Device Provide and Provi
SUBSECTION: REVISION:	601.03.02 Concrete Producer Responsibilities. Replace the first sentence with the following:
	Obtain the concrete from producers that are in compliance with KM 64-323 and on the Department's List of Approved Materials.
	Add the following to the first paragraph:
	If a concrete plant becomes unqualified during a project and there are no other qualified plants in the region, the Department will provide qualified personnel to witness and ensure the producer follows the required specifications. The Department will assess the Contractor a \$100 per hour charge for this service.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	B) Certified Personnel.
REVISION:	Replace the second sentence with the following:
	Ensure that the concrete technicians are certified as ACI Level I (Level I) and KRMCA Level II (Level II).
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	C) Quality Control.
REVISION:	Replace the second sentence with the following:
	Ensure that the Level II concrete technician is present when work is in progress and is responsible for
	inspecting trucks, batch weight calculations, monitoring batching, making mixture adjustments,
	reviewing the slump, air content, unit weight, temperature, and aggregate tests, all to provide conforming
	concrete to the project.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	D) Producer Testing.
REVISION:	Replace with the following:
	When producing for state work, have a Qualified Concrete Aggregate Technician or KYTC Qualified Aggregate Technician perform, at a minimum, weekly gradations and minus 200 wash tests and daily
	moisture contents of coarse and fine aggregate (Fine aggregates will not require a minus 200 wash test).
	Using the daily moisture contents, adjust the approved mix design accordingly prior to production.
	Ensure that the Level II concrete technician is present when work is in progress and is responsible for
	inspecting trucks, batch weight calculations, monitoring batching, making mixture adjustments,
	reviewing the slump, air content, unit weight, temperature, and aggregate tests, all to provide conforming concrete to the project.
	concrete to the project.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	E) Trip Tickets.
REVISION:	Replace the second sentence with the following:
	Include on the trip ticket the Sample ID for the approved mix design and a statement certifying that the
	data on the ticket is correct and that the mixture conforms to the mix design.
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART: NUMPED	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures 2) Mineral Admixtures.
NUMBER: REVISION:	2) Mineral Admixtures. Replace the second sentence with the following:
	replace the second sentence with the following.
	Reduction of the total cement content by a combination of mineral admixtures will be allowed, up to a
	maximum of 40 percent.

SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures
NUMBER:	2) Mineral Admixtures.
LETTER:	a) Fly Ash.
REVISION:	Delete the last sentence of the third paragraph.
GUDGECTION	
SUBSECTION: PART:	601.03.03 Proportioning and Requirements. C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures
NUMBER:	2) Mineral Admixtures.
LETTER:	b) Ground Granulated Blast Furnace Slag (GGBF Slag).
REVISION:	Delete the second sentence of the third paragraph.
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	E) Measuring.
REVISION:	Add the following sentence:
	Conform to the individual ingredient material batching tolerances in Appendix A.
	conform to the individual ingredient material batching tolerances in Appendix A.
SUBSECTION:	601.03.09 Placing Concrete.
PART:	A) General.
REVISION:	Replace the last sentence of the fourth paragraph with the following:
	Do not use aluminum or aluminum alloy troughs, pipes, or chutes that have surface damage or for
	lengths greater than 20 feet.
	Replace the second sentence of the fifth paragraph with the following:
	When pumping, equip the delivery pipe with a nozzle, having a minimum of 2 right angles, at the
	discharge end. Alternate nozzles or restriction devices may be allowed with prior approval by the
	Engineer.
SUBSECTION:	605.02.05 Forms.
REVISION:	Delete the last sentence.
SUBSECTION:	605.03.04 Tack Welding.
REVISION:	Replace with the following:
	The Department does not allow tack welding.
SUBSECTION:	606.02.11 Coarse Aggregate.
REVISION:	Replace with the following:
	Conform to Section 805, size No. 8 or 9-M.
SUBSECTION:	609.03.04 Expansion and Fixed Joints.
PART:	D) Preformed Neoprene Joint Seals.
REVISION:	Replace the last sentence of paragraph seven with the following:
	Field splices will not be allowed during portial width construction. It is Contractor's responsibility to
	Field splices will not be allowed during partial width construction. It is Contractor's responsibility to determine and install the length of seal required for the joint to barrier wall as per the standard drawing.
SUBSECTION:	609.03.09 Finish with Burlap Drag.
REVISION:	Delete the entire section.
SUBSECTION:	609.04.06 Joint Sealing.
REVISION:	Replace Subsection 601.04 with the following:
	Subsection 606.04.08
	Subsection 606.04.08.

SUBSECTION:	609.05 Payment.
REVISION:	Replace the Pay Unit for Joint Sealing with the following:
	See Subsection 606.05.
SUBSECTION:	701.03.06 Initial Backfill.
REVISION:	Replace the first sentence of the last paragraph with the following:
	When the Contract specifies, perform quality control testing to verify compaction according to KM 64- 512.
SUBSECTION: REVISION:	701.03.08 Testing of Pipe. Replace and rename the subsection with the following:
	701.03.08 Inspection of Pipe. The engineer will visually inspect all pipe. The Department will require camera/video inspection on a minimum of 50 percent of the linear feet of all installed pipe structures. Conduct camera/video inspection according to KM 64-114. The pipe to be installed under pavement will be selected first. If the total linear feet of pipe under pavement is less than 50 percent of the linear feet of all pipe installed, the Engineer will randomly select installations from the remaining pipe structures on the project to provide for the minimum inspection requirement. The pipe will be selected in complete runs (junction-junction or headwall-headwall) until the total linear feet of pipe to be inspected is at least 50 percent of the total linear feet of all installed pipe on the project. Unless the Engineer directs otherwise, schedule the inspections no sooner than 30 days after completing the installation and completion of earthwork to within 1 foot of the finished subgrade. When final surface. The contractor must ensure that all pipe are free and clear of any debris so that a complete inspection is possible. Notify the Engineer immediately if distresses or locations of improper installation are discovered. When camera testing shows distresses or improper installation in the installed pipe, the Engineer may require additional sections to be tested. Provide the video and report to the Engineer when testing is complete in accordance with KM 64-114.
SUBSECTION: REVISION:	701.04.07 Testing. Replace and rename the subsection with the following:
	701.04.07 Pipeline Video Inspection. The Department will measure the quantity in linear feet along the pipe invert of the structure inspected. When inspection above the specified 50 percent is performed due to a disagreement or suspicion of additional distresses and the Department is found in error, the Department will measure the quantity as Extra Work according to Subsection 104.03. However, if additional distresses or non-conformance is found, the Department will not measure the additional inspection for payment.

SUBSECTION: TABLE: REVISION: 701.05 PAYMENT PIPE DEFLECTION DETERMINED BY CAMERA TESTING Replace this table with the following table and note: PIPE DEFLECTION Pipe DEFLECTION Amount of Deflection (%) Payment 0.0 to 5.0 100% of the Unit Bid Price 5.1 to 9.9 50% of the Unit Bid Price (¹⁾ 10 or greater Remove and Replace (1) Provide Structural Analysis as indicated above. Based on the structural analysis, pi allowed to remain in place at the reduced unit price. SUBSECTION: 701.05 PAYMENT PIPE DEFLECTION DETERMINED BY MANDREL TESTING Detect this table. SUBSECTION: 713.02.01 Paint. Revision: 713.02.01 Paint. Replace with the following: Conform to Section 842 and Section 846. SUBSECTION: 713.03 CONSTRUCTION. REVISION: 713.03 CONSTRUCTION. Replace the first sentence of the second paragraph with the following: On interstates and parkways, and other routes approved by the State Highway Engineer, instriping that is 6 inches in width. SUBSECTION: 713.03.03 Paint Application. Replace the second paragraph with the following table:	<u>nit</u> Foot		
Amount of Deflection (%)Payment0.0 to 5.0100% of the Unit Bid Price5.1 to 9.950% of the Unit Bid Price (1)10 or greaterRemove and Replace(1)Provide Structural Analysis as indicated above. Based on the structural analysis, pi allowed to remain in place at the reduced unit price.SUBSECTION: TABLE: REVISION:701.05 PAYMENT PIPE DEFLECTION DETERMINED BY MANDREL TESTING Delete this table.SUBSECTION: REVISION:713.02.01 Paint. Replace with the following: Conform to Section 842 and Section 846.SUBSECTION: REVISION:713.03 CONSTRUCTION. Replace the first sentence of the second paragraph with the following: On interstates and parkways, and other routes approved by the State Highway Engineer, ins striping that is 6 inches in width.SUBSECTION: REVISION:713.03.03 Paint Application. Replace the second paragraph with the following table:			
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SUBSECTION: 713.02.01 Paint. REVISION: Replace with the following: Conform to Section 842 and Section 846. SUBSECTION: 713.03 CONSTRUCTION. REVISION: Replace the first sentence of the second paragraph with the following: On interstates and parkways, and other routes approved by the State Highway Engineer, instriping that is 6 inches in width. SUBSECTION: 713.03.03 Paint Application. REVISION: 713.03.03 Paint Application. REVISION: Replace the second paragraph with the following table:			
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REVISION: Replace the first sentence of the second paragraph with the following: On interstates and parkways, and other routes approved by the State Highway Engineer, instriping that is 6 inches in width. SUBSECTION: 713.03.03 Paint Application. REVISION: Paragraph with the following table:			
REVISION: Replace the second paragraph with the following table:	tall pavement		
Material Paint Application Rate Glass Beads Appli	Glass Beads Application Rate		
4 inch waterborne paint Min. of 16.5 gallons/mile Min. of 6 pounds/g	Min. of 6 pounds/gallon		
6 inch waterborne paint Min. of 24.8 gallons/mile Min. of 6 pounds/ga			
6 inch durable waterborne paint Min. of 36 gallons/mile Min. of 6 pounds/ga SUBSECTION: 713.03.04 Marking Removal. REVISION: Replace the last sentence of the paragraph with the following:	11011		
Vacuum all marking material and removal debris concurrently with the marking removal op	eration.		
SUBSECTION:713.05 PAYMENT.REVISION:Insert the following codes and pay items below the Pavement Striping – Permanent Paint:			
CodePay ItemPay Unit24189ERDurable Waterborne Marking – 6 IN WLinear Foot24190ERDurable Waterborne Marking – 6 IN YLinear Foot24191ERDurable Waterborne Marking – 12 IN WLinear Foot			

CUDGECTION	
SUBSECTION: REVISION:	714.03 CONSTRUCTION. Insert the following paragraph at the end of the third paragraph:
	Use Type I Tape for markings on bridge decks, JPC pavement and JPC intersections. Thermoplastic should only be used for markings on asphalt pavement.
SUBSECTION:	714.03.07 Marking Removal.
REVISION:	Replace the third sentence of the paragraph with the following:
	Vacuum all marking material and removal debris concurrently with the marking removal operation.
SUBSECTION: REVISION:	716.01 DESCRIPTION. Insert the following after the first sentence:
KEVISION.	insert the following after the first sentence.
	Energize lighting as soon as it is fully functional and ready for inspection. Ensure that lighting remains operational until the Division of Traffic Operations has provided written acceptance of the electrical work.
SUBSECTION:	716.02.01 Roadway Lighting Materials.
REVISION:	Replace the last two sentences of the paragraph with the following:
	Submit for material approval an electronic file of descriptive literature, drawings, and any requested design data to the Division of Traffic Operations. Do not begin work until shop drawings are approved. Notify the Engineer when submitting any information to the Division of Traffic Operations. Do not make substitutions for approved materials without written permission as described above.
SECTION:	717 – THERMOPLASTIC INTERSECTION MARKINGS.
REVISION:	Replace the section name with the following:
	INTERSECTION MARKINGS.
SUBSECTION:	717.01 DESCRIPTION:
REVISION:	Replace the paragraph with the following:
	Furnish and install thermoplastic or Type I tape intersection markings (Stop Bars, Crosswalks, Turn Arrows, etc.) Thermoplastic markings may be installed by either a machine applied, screed extrusion process or by applying preformed thermoplastic intersection marking material.
SUBSECTION:	717.02 MATERIALS AND EQUIPMENT.
REVISION:	Insert the following subsection:
	717.02.06 Type I Tape. Conform to Section 836.
SUBSECTION: REVISION:	717.03.03 Application. Insert the following part to the subsection:
	B) Type I Tape Intersection Markings. Apply according to the manufacturer's recommendations. Cut all tape at pavement joints when applied to concrete surfaces.

SUBSECTION:	717.03.05 Proving Period.		
PART:	A) Requirements.		
REVISION:	Insert the following to this section	on:	
	of failure due to blistering, exce pavement materials, drippings, retroreflectivity, vehicular dama warranted by the manufacturer adequately bonded to the surface Subsection 714.03.06 A) 1), ret	oving period, ensure that the pavement marking materi essive cracking, bleeding, staining, discoloration, oil co- chipping, spalling, poor adhesion to the pavement, los age, and normal wear. Type I Tape is manufactured of to meet certain retroreflective requirements. As long a er and shows no signs of failure due to the other items roreflectivity readings will not be required. In the abs based on a nighttime visual observation.	ontent of the s of ff site and as the material is listed in
SUBSECTION: REVISION:	717.03.06 Marking Removal. Replace the third sentence of th	e paragraph with the following:	
	Vacuum all marking material a	nd removal debris concurrently with the marking remo	oval operation.
SUBSECTION: REVISION:	717.05 PAYMENT. Insert the following bid item co	des:	
SUBSECTION: REVISION:	miscellaneous metal w For the SCI100GM fe		to ASTM A 123. SCI100GM fender
SUBSECTION: REVISION:	miscellaneous metal w For the SCI100GM fe	wing: m as developed by SCI Products, Inc. of St. Charles, I work conform to ASTM A 36 and galvanize according nder panels conform to AASHTO 180. Galvanize the I-beam connectors after fabrication according to AST	to ASTM A 123. SCI100GM fender
SUBSECTION: REVISION:	When supplying cement with a	e first paragraph and add the following to the second p SO_3 content above the value in table I of ASTM C 150 ay expansion test data for the supplied SO_3 content on	0, include

SUBSECTION:	805.01 GENERAL.
REVISION:	Replace the second paragraph with the following:
	The Department's List of Approved Materials includes the Aggregate Source List, the list of Class A and Class B Polish-Resistant Aggregate Sources, and the Concrete Restriction List.
SUBSECTION:	805.04 CONCRETE.
REVISION:	Delete footnote (1) The permissible lightweight particle content of gravel coarse aggregate for reinforced
	concrete box culvert sections, concrete pipe, pipe arches, or for use only in concrete that will be permanently protected from freezing by 2 feet or more of cover is 10.0 percent.
SUBSECTION:	805.04 CONCRETE.
REVISION:	Replace the "AASHTO T 160" reference in first sentence of the third paragraph with "KM 64-629"
SUBSECTION:	805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE.
TABLE:	AGGREGATE SIZE USE
PART:	Cement Concrete Structures and Incidental Construction
REVISION:	Replace "9-M for Waterproofing Overlays" with "8 or 9-M for Waterproofing Overlays"

Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2008 Edition

(Effective with the July15, 2011 Letting)

SUBSECTION: 805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE. REVISION: Replace the "SIZES OF COARSE AGGREGATES" table in with the following:

					S	IZES (OF COAI	RSE AG	GGREG	ATES							
	Sieve		A	MOUNT	S FINER TH	AN EACI	H LABORA	FORY SI	EVE (SQU	ARE OPEN	INGS) PEH	RCENTAG	E BY WEI	GHT			
Aggregate Size	Nominal ⁽³⁾ Maximum Aggregate Size	4 inch	3 1/2 inch	3 inch	2 1/2 inch	2 inch	1 1/2 inch	1 inch	3/4 inch	1/2 inch	3/8 inch	No. 4	No. 8	No. 16	No. 30	No. 100	No. 200
1	3 1/2 inch	100	90-100		25-60		0-15		0-5								
2	2 1/2 inch			100	90-100	35-70	0-15		0-5								
23	2 inch			100		40-90		0-15		0-5							
3	2 inch				100	90-100	35-70	0-15		0-5							
357	2 inch				100	95-100		35-70		10-30		0-5					
4	1 1/2 inch					100	90-100	20-55	0-15		0-5						
467	1 1/2 inch					100	95-100		35-70		10-30	0-5					
5	1 inch						100	90-100	20-55	0-10	0-5						
57	1 inch						100	95-100		25-60		0-10	0-5				
610	1 inch						100	85-100		40-75		15-40					
67	3/4 inch							100	90-100		20-55	0-10	0-5				
68	3/4 inch							100	90-100		30-65	5-25	0-10	0-5			
710	3/4 inch							100	80-100		30-75	0-30					
78	1/2 inch								100	90-100	40-75	5-25	0-10	0-5			
8	3/8 inch									100	85-100	10-30	0-10	0-5			
9-M	3/8 inch									100	75-100	0-25	0-5			1	
10 ⁽²⁾	No. 4										100	85-100				10-30	
11 ⁽²⁾	No. 4										100	40-90	10-40			0-5	
DENSE GRADED AGGREGATE ⁽¹⁾	3/4 inch							100	70-100		50-80	30-65			10-40		4-13
CRUSHED STONE BASE ⁽¹⁾	1 1/2 inch				100		90-100		60-95		30-70	15-55			5-20		0-8

(1) Gradation performed by wet sieve KM 64-620 or AASHTO T 11/T 27.

⁽²⁾ Sizes shown for convenience and are not to be considered as coarse aggregates.

⁽³⁾ Nominal Maximum Size is the largest sieve on the gradation table for an aggregate size on which any material may be retained.

Note: The Department will allow blending of same source/same type aggregate when precise procedures are used such as cold feed, belt, or equivalent and combining of sizes or types of aggregate using the weigh hopper at concrete plants or controlled feed belts at the pugmill to obtain designated sizes.

SUBSECTION: REVISION:	805.16 SAMPLING AND TESTING. Replace the "AASHTO T 160" method with the "KM 64-629" method for the Concrete Beam Expansion Test.
	Replace the "ASTM D 3042" method with the "KM 64-625" method for Insoluble Residue.
SUBSECTION: REVISION:	810.04.01 Coating Requirements. Replace the "Subsection 806.07" references with "Subsection 806.06"
SUBSECTION: PART: REVISION:	810.06.01 Polyvinyl Chloride (PVC) Pipe.B) Culvert and Entrance Pipe.Replace the title with the following:B) Culvert Pipe, Storm Sewer, and Entrance Pipe.
SUBSECTION: REVISION:	823.02 LIQUID MEMBRANE FORMING COMPOUNDS. Add the following:
	Effective July 1, 2011, to remain on or be added to the Department's approved list, products must have completed testing or been submitted for testing through the National Transportation Product Evaluation Program (NTPEP) for Concrete Curing Compounds.
SUBSECTION: REVISION:	837.03 APPROVAL. Replace the last sentence with the following:
	The Department will sample and evaluate for approval each lot of thermoplastic material delivered for use per contract prior to installation of the thermoplastic material. Do not allow the installation of thermoplastic material until it has been approved by the Division of Materials. Allow the Department a minimum of 10 working days to evaluate and approve thermoplastic material.
SUBSECTION: REVISION:	837.03.01 Composition. COMPOSITION Table: Replace
	Iteplate0.0 max.4.0 min.WithIteavy Metals ContentComply with 40 CFR 261
SUBSECTION: TABLE: REVISION:	842.02 APPROVAL. PAINT COMPOSITION Revise the following in the table:
	Replace the 2.0 Δ E* values in the table with 4.0 Δ E* for both Yellow and White Paint on both the Daytime and Nighttime Color Spectrophotometer.
SECTION: REVISION:	DIVISION 800 MATERIAL DETAILS Add the following section in Division 800
	SECTION 846 – DURABLE WATERBORNE PAINT
	846.01 DESCRIPTION. This section covers quick-drying durable waterborne pavement striping paint for permanent applications. The paint shall be ready-mixed, one-component, 100% acrylic waterborne striping paint suitable for application on such traffic-bearing surfaces as Portland cement concrete, bituminous cement concrete, asphalt, tar, and previously painted areas of these surfaces.
	846.02 Approval. Select materials that conform to the composition requirements below. Provide independent analysis data and certification for each formulation stating the total concentration of each heavy metal present, the test method used for each determination, and compliance to 40 CFR 261 for leachable heavy metals content. Submit initial samples for approval before beginning striping

determined by intervidenced by infr	rared spectral anal ared peaks at wave		
		PAINT COMPOSITION	
Property and Te		Yellow	White
Daytime Color		L* 81.76	L* 93.51
Spectrophotome		a* 19.79	a* -1.01
illuminant D65		b* 89.89	b* 0.70
	l 0° viewing with	Maximum allowa le	Maximum allowable variation
a 2° observer		variation 4.0\DE*	4.0ΔE*
Nighttime Colo		L* 86.90	L* 93.45
Spectrophotome		a* 24.80	a* -0.79
	45° illumination	b* 95.45	b* 0.43
and 0° viewing	with a 2° observer	Maximum allowable variation	
		4.0ΔE*	4.0ΔE*
Heavy Metals C		Comply with 40 CFR 261	Comply with 40 CFR 261
Titanium Dioxi	le	NA	10% by weight of pigment
ASTM D 4764			min.
VOC		1.25 lb/gal max.	1.251 /gal ma .
ASTM D 2369	and D 4017	0.55	
Contrast Ratio (at 15 mils wft)		0.97	0.99
· · · · · · · · · · · · · · · · · · ·			·
traffic paint produced identification, tra	uced stating conform ffic paint trade name	ne, color, date of manufacturer, to	s section. Report the formulation otal quantity of lot produced, actu
traffic paint produidentification, tra quantity of traffic sample tested to a 846.03 ACCH WATERBORNI incorporated into percentage deduc The Department	aced stating confor ffic paint trade nam paint represented, epresent each lot p CPTANCE PRO E PAVEMENT S the work the De- tion is cumulative	mance to the requirements of this be, color, date of manufacturer, to sampling method utilized to obta roduced. DCEDURES FOR NON TRIPING PAINT. When non epartment will accept the mate- based on its compositional prope	s section. Report the formulation
traffic paint produidentification, tra quantity of traffic sample tested to a 846.03 ACCH WATERBORNI incorporated into percentage deduc The Department specification pain	aced stating confor ffic paint trade nam paint represented, epresent each lot p CPTANCE PRO E PAVEMENT S the work the Dettion is cumulative b will calculate the p t was used.	mance to the requirements of this be, color, date of manufacturer, to sampling method utilized to obta roduced. DCEDURES FOR NON TRIPING PAINT. When non epartment will accept the mate- based on its compositional prope	s section. Report the formulation otal quantity of lot produced, actu- ain the samples, and data for each SPECIFICATION DURAR -specification paint is inadverter rial with a reduction in pay. rties, but will not exceed 60 percent price for the routes where the r
traffic paint produidentification, tra quantity of traffic sample tested to a 846.03 ACCH WATERBORNI incorporated into percentage deduc The Department specification pain	aced stating confor ffic paint trade nam paint represented, epresent each lot p CPTANCE PRO E PAVEMENT S to the work the De tion is cumulative b will calculate the p t was used. ATERBORNE PA	mance to the requirements of this ae, color, date of manufacturer, to sampling method utilized to obta roduced. DCEDURES FOR NON TRIPING PAINT. When non apartment will accept the mater based on its compositional proper ayment reduction on the unit bio	s section. Report the formulation otal quantity of lot produced, actu- ain the samples, and data for each SPECIFICATION DURAR -specification paint is inadverter rial with a reduction in pay. rties, but will not exceed 60 percent price for the routes where the r

APPENDIX A:	TABLUATION OF CONSTRUCTION TOLERANCES.
PART:	601.03.03
REVISION:	Replace with the following:
	Concrete accuracy of individual ingredient material for each batch. ± 2.0% for aggregates ± 1.0% for water ± 1.0% for cement in batches of 4 cubic yards or greater ± 1.0% for total cementitious materials in batches of 4 cubic yards or greater 0.0% to + 4.0% for cement in batches less than 4 cubic yards 0.0% to + 4.0% for total cementitious materials in batches less than 4 cubic yards ± 3.0% for admixtures
APPENDIX A: PART: REVISION:	TABLUATION OF CONSTRUCTION TOLERANCES. 601.03.03 C) 2) Delete