Subsection:	101.03 DEFINITIONS				
Revision:					
Tec vision.	Superpave Mix Design Technologist (SMDT) - An inspector qualified by the KYTC to submit,				
	adjust, or approve asphalt mix designs.				
	Superpave Plant Technologist (SPT) - An inspector qualified by the KYTC to perform routine				
	inspection and process control, acceptance, or verification testing on asphalt mixtures.				
Subsection:	102.15 Process Agent.				
Revision:	Replace the 1st paragraph with the following:				
	Every corporation doing business with the Department shall submit evidence of compliance with				
	KRS Sections 14A.4-010, 271B.11-010, 271B.11-070, 271B.11-080, 271B.5-010 and 271B.16-				
	220, and file with the Department the name and address of the process agent upon whom process				
	may be served.				
Subsection:	105.13 Claims Resolution Process.				
Revision:	Delete all references to TC 63-34 and TC 63-44 from the subsection as these forms are no longer				
	available through the forms library and are forms generated within the AASHTO SiteManager				
	software.				
Subsection:	108.01 Subcontracting of Contract.				
Revision:	Replace the section with the following:				
	Do not subcontract, sell, transfer, assign, or otherwise dispose of the Contract or any portion of				
	the Contract or Contracts, or of the right, title, or interest therein, without the Engineer's written				
	consent. If the Contractor chooses to subcontract any portion of the Contract, a written request to				
	sublet work must be submitted on the Subcontract Request (TC 63-35) form for the Engineer's				
	approval. When directed by the Engineer, submit a certified copy of the actual subcontract				
	agreement executed between the parties.				
	The Engineer will allow the Contractor to subcontract a portion, but the Contractor must perform				
	with his own organization work amounting to no less than 30 percent of the total Contract cost.				
	The Engineer will not allow any subcontractor to exceed the percentage to be performed by the				
	Contractor and will require the Contractor to maintain a supervisory role over the entire project.				
	Do not allow any subcontractor to further subcontract any portion of the work without obtaining				
	written consent from the Engineer. When the Engineer gives such consent, the first tier				
	subcontractor may further subcontract a portion of his work not to exceed 50 percent of the work				
	originally subcontracted to him by the Contractor. Do not allow any second tier subcontractor to				
	subcontract any portion of the work.				
	Extra work performed by subcontractors in accordance with Section 109 will not be utilized in				
	the computation of total dollar amount subcontracted. Subcontract percentages are based upon				
	the original contract amount.				
	Payment to subcontractors for satisfactory performance of their work or materials supplied must				
	be made within 7 calendar days from receipt of payment from the Engineer. Upon request by the				
	Engineer, provide proof that payment has been made to the subcontractor within the 7 calendar				
	days. Progress payments may be withheld for failure to comply with this request.				
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The Engineer's written consent to subcontract, assign, or otherwise dispose of any portion of the Contract does not, under any circumstances, relieve the Contractor or the surety of their respective liabilities and obligations under the Contract. The Engineer will make transactions only with the Contractor. The Engineer will recognize subcontractors only in the similar capacity of employees or workers of the Contractor who are subject to the same requirements as to character and competence as specified in Subsection 108.06.

Lease agreements are acceptable on Department projects. No additional paperwork is needed when equipment is rented from a commercial rental company unless the leased equipment comes with an operator. In these circumstances, payroll records for the operator of the leased equipment must be maintained and submitted by the contractor in accordance with Department policy.

Lease agreements between contractors that involve equipment only will require the submittal of a TC 63-71 Department Equipment Rental Form. If a Contractor is found to be in violation of these requirements, the Engineer reserves the right to withhold payment for the work which was performed in violation of these requirements. This provision does not include the lease or use of equipment from a corporation or company wholly owned by the Contractor. The Contractor shall not use equipment in the performance of the Contract to which title is not held by the Contractor or an approved subcontractor without a submitted lease agreement.

If a public official has provided a documented Declaration of Emergency, then the Engineer may verbally waive the requirement of submitting a TC 63-71 Department Equipment Rental Form until the situation has ended. After the emergency situation ends, immediately remove the equipment from the project or submit a completed TC 63-71 Department Equipment Rental Form to the Engineer.

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108.03 Preconstruction Conference.

Revision:

Replace 8) Staking with the following:

8) Staking (designated by a Professional Engineer or Land Surveyor licensed in the Commonwealth of Kentucky.

Subsection:

109.07.02 Fuel.

Revision:

Revise item Crushed Aggregate Used for Embankment Stabilization to the following:

Crushed Aggregate

Used for Stabilization of Unsuitable Materials

Used for Embankment Stabilization

Delete the following item from the table.

Crushed Sandstone Base (Cement Treated)

Subsection:

110.02 Demobilization.

Revision:

Replace the first part of the first sentence of the second paragraph with the following:

Perform all work and operations necessary to accomplish final clean-up as specified in the first paragraph of Subsection 105.12;

Subsection:

112.03.12 Project Traffic Coordinator (PTC).

Revision:

Replace the last paragraph of this subsection with the following:

Ensure the designated PTC has sufficient skill and experience to properly perform the task assigned and has successfully completed the qualification courses.

Insert the following sentence after the 2nd sentence of this subsection. The Department will not measure temporary drainage structures for payment when the documents provide the required drainage opening that must be maintained with the div The temporary drainage structures shall be incidental to the construction of the diverse contract documents fail to provide the required drainage opening needed for the diverse cost of the temporary drainage structure will be handled as extra work in accordance will 109.04. Subsection: Revision: Replace the first paragraph with the following: Perform all necessary surveying under general supervision of a Professional Engineer or Land Surveyor licensed in the Common Kentucky. Subsection: Revision: Replace the last sentence of the paragraph with the following: Complete the general last the project under the supervision of a Professional Engineer or Land Surveyor licensed Commonwealth of Kentucky. Subsection: 206.04.01 Embankment-in-Place.	version. on. If the sion, the with section the the monwealth
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Commonwealth of Kentucky.	-
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Subsection: 206.04.01 Embankment-in-Place.	
Revision: Replace the fourth paragraph with the following: The Department will not measure su	
excavation included in the original plans that is disposed of for payment and will consi	ider it
incidental to Embankment-in-Place.	
Subsection: 208.02.01 Cement.	
Revision: Replace paragraph with the following:	
Select Type I or Type II cement conforming to Section 801. Use the same type cement	Į.
throughout the work.	
Subsection: 208.03.06 Curing and Protection.	
Revision: Replace the fourth paragraph with the following:	, ,
Do not allow traffic or equipment on the finished surface until the stabilized subgrade	
for a total of 7-days with an ambient air temperature above 40 degrees Fahrenheit. A c	
consists of a continuous 24-hour period in which the ambient air temperature does not 40 degrees Fahrenheit. Curing days will not be calculated consecutively, but must total	
, 24-hour days with the ambient air temperature remaining at or above 40 degrees Fahr	` /
before traffic or equipment will be allowed to traverse the stabilized subgrade. The De	
may allow a shortened curing period when the Contractor requests. The Contractor sha	-
Department at least 3 day notice of the request for a shortened curing period. The Department	_
will require a minimum of 3 curing days after final compaction. The Contractor shall:	
cores to the treated depth of the roadbed at 500 feet intervals for each lane when a short	
curing time is requested. The Department will test cores using an unconfined compress	
Roadbed cores must achieve a minimum strength requirement of 80 psi.	Jion test.
policies in a section in a section of the policies of the poli	
Subsection: 208.03.06 Curing and Protection.	
Revision: Replace paragraph eight with the following:	
At no expense to the Department, repair any damage to the subgrade caused by freezing	

Subsection:	212.03.03 Permanent Seeding and Protection.					
Part:	A) Seed Mixtures for Permanent Seeding.					
Revision:	Revise Seed Mix Type I to the mixture shown below:					
	50% Kentucky 31 Tall Fescue (Festuca arundinacea)					
	35% Hard Fescue (Festuca (Festuca longifolia)					
	10% Ryegrass, Perennial (Lolium perenne)					
	5% White Dutch Clover (Trifolium repens)					
Subsection:	212.03.03 Permanent Seeding and Protection.					
Part:	A) Seed Mixtures for Permanent Seeding.					
Number:	2)					
Revision:	Replace the paragraph with the following:					
	Permanent Seeding on Slopes Greater than 3:1 in Highway Districts 4, 5, 6, and 7. Apply seed					
	mix Type II at a minimum application rate of 100 pounds per acre. If adjacent to a golf course					
	replace the crown vetch with Kentucky 31 Tall Fescue.					
Subsection:	212.03.03 Permanent Seeding and Protection.					
Part:	A) Seed Mixtures for Permanent Seeding.					
Number:	3)					
Revision:	Replace the paragraph with the following:					
	Permanent Seeding on Slopes Greater than 3:1 in Highway Districts 1, 2, 3, 8, 9, 10, 11, and 12.					
	Apply seed mix Type III at a minimum application rate of 100 pounds per acre. If adjacent to					
	crop land or golf course, replace the Sericea Lespedeza with Kentucky 31 Fescue.					
Subsection:	212.03.03 Permanent Seeding and Protection.					
Part:	B) Procedures for Permanent Seeding.					
Revision:	Delete the first sentence of the section.					
Subsection:	212.03.03 Permanent Seeding and Protection.					
Part:	B) Procedures for Permanent Seeding.					
Revision:	Replace the second and third sentence of the section with the following:					
	Prepare a seedbed and apply an initial fertilizer that contains a minimum of 100 pounds of					
	nitrogen, 100 pounds of phosphate, and 100 pounds of potash per acre. Apply agricultural					
	limestone to the seedbed when the Engineer determines it is needed. When required, place					
	agricultural limestone at a rate of 3 tons per acre.					
Subsection:	212.03.03 Permanent Seeding and Protection.					
Part:	D) Top Dressing.					
Revision:	Change the title of part to D) Fertilizer.					

Subsections	212.03.03 Permanent Seeding and Protection.					
	D) Fertilizer.					
Revision:						
Revision:	Replace the first paragraph with the following: Apply fertilizer at the beginning of the seeding operation and after vegetation is established. Use					
	fertilizer delivered to the project in bags or bulk. Apply initial fertilizer to all areas prior to the seeding or sodding operation at the application rate specified in 212.03.03 B). Apply 20-10-10					
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	fertilizer to the areas after vegetation has been established at a rate of 11.5 pounds per 1,000 square feet. Obtain approval from the Engineer prior to the 2nd fertilizer application. Reapply					
	fertilizer to any area that has a streaked appearance. The reapplication shall be at no additional cost to the Department. Re-establish any vegetation severely damaged or destroyed because of					
	an excessive application of fertilizer at no cost to the Department.					
	212.03.03 Permanent Seeding and Protection.					
Part:	D) Fertilizer.					
Revision:	Delete the second paragraph.					
	212.04.04 Agricultural Limestone.					
Revision:	Replace the entire section with the following:					
	The Department will measure the quantity of agricultural limestone in tons.					
	212.04.05 Fertilizer.					
Revision:	Replace the entire section with the following:					
	The Department will measure fertilizer used in the seeding or sodding operations for payment.					
	The Department will measure the quantity by tons.					
Subsection:	212.05 PAYMENT.					
Revision:	Delete the following item code:					
	Code Pay Item Pay Unit					
	05966 Topdressing Fertilizer Ton					
Subsection:	212.05 PAYMENT.					
Revision:	Add the following pay items:					
	Code Pay Item Pay Unit					
	05963 Initial Fertilizer Ton					
	05964 20-10-10 Fertilizer Ton					
	05992 Agricultural Limestone Ton					

Subsection:	213.03.02 Progress Requirements.						
Revision:	Replace the third paragraph with the following:						
	After exposing areas of erodible material, make every effort to stabilize and protect the areas as						
	quickly as possible. Permanently seed and mulch all areas at final grade within 14 days.						
	Temporary stabilization practices on those portions of the project where construction activities						
	have temporarily ceased shall be initiated within 14 days of the date of activity cessation. The						
	Engineer will suspend grading operations for instances where the Contractor fails to sustain						
	rosion control measures to effectively control erosion and to prevent water pollution in						
	accordance with the KPDES Permit. In addition, the Engineer will withhold monies due on						
	current estimates until corrective work has been initiated and is continuously progressing to						
	remediate noted deficiencies. Additionally, should noted deficiencies not be adequately						
	addressed to the satisfaction of the Engineer within 7 calendar days of receipt of written						
	notification of deficiencies, the Department will apply a penalty equal to the daily liquidated						
	damages rate until all aspects of the work have been completed.						
Subsection:	213.03.05 Temporary Control Measures.						
Part:	E) Temporary Seeding and Protection.						
Revision:	Delete the second sentence of the first paragraph.						
Subsection:	304.02.01 Physical Properties.						
Table:	Required Geogrid Properties						
Revision:	Replace all references to Test Method "GRI-GG2-87" with ASTM D 7737.						
Subsection:	402.03.02 Contractor Quality Control and Department Acceptance.						
Part:	B) Sampling.						
Revision:	Replace the second sentence with the following:						
	The Department will determine when to obtain the quality control samples using the random-						
	number feature of the mix design submittal and approval spreadsheet. The Department will						
	randomly determine when to obtain the verification samples required in Subsections 402.03.03						
	and 402.03.04 using the Asphalt Mixture Sample Random Tonnage Generator.						
Subsection:	402.03.02 Contractor Quality Control and Department Acceptance.						
Part:	D) Testing Responsibilities.						
Number:	3) VMA.						
Revision:	Add the following paragraph below Number 3) VMA:						
	Retain the AV/VMA specimens and one additional corresponding G _{mm} sample for 5 working						
	days for mixture verification testing by the Department. For Specialty Mixtures, retain a mixture						
	sample for 5 working days for mixture verification testing by the Department. When the						
	Department's test results do not verify that the Contractor's quality control test results are within						
	the acceptable tolerances according to Subsection 402.03.03, retain the samples and specimens						
	from the affected sublot(s) for the duration of the project.						
Subsection:	402.03.02 Contractor Quality Control and Department Acceptance.						
Part:	D) Testing Responsibilities.						
Number:	4) Density.						
Revision:	Replace the second sentence of the Option A paragraph with the following:						
	Perform coring by the end of the following work day.						

	Effective with the February 24, 2017 Letting
Subsection:	402.03.02 Contractor Quality Control and Department Acceptance.
Part:	D) Testing Responsibilities.
Number:	5) Gradation.
Revision:	Delete the second paragraph.
Subsection:	402.03.02 Contractor Quality Control and Department Acceptance.
Part:	H) Unsatisfactory Work.
Number:	1) Based on Lab Data.
Revision:	Replace the second paragraph with the following:
	When the Engineer determines that safety concerns or other considerations prohibit an immediate
	shutdown, continue work and the Department will make an evaluation of acceptability according
	to Subsection 402.03.05.
Subsection:	402.03.03 Verification.
Revision:	Replace the first paragraph with the following:
	402.03.03 Mixture Verification. For volumetric properties, the Department will perform a
	minimum of one verification test for AC, AV, and VMA according to the corresponding
	procedures as given in Subsection 402.03.02. The Department will randomly determine when to
	obtain the verification sample using the Asphalt Mixture Sample Random Tonnage Generator.
	For specialty mixtures, the Department will perform one AC and one gradation determination per
	lot according to the corresponding procedures as given in Subsection 402.03.02. However,
	Department personnel will not perform AC determinations according to KM 64-405. The
	Contractor will obtain a quality control sample at the same time the Department obtains the
	mixture verification sample and perform testing according to the procedures given in Subsection
	402.03.02. If the Contractor's quality control sample is verified by the Department's test results
	within the tolerances provided below, the Contractor's sample will serve as the quality control
	sample for the affected sublot. The Department may perform the mixture verification test on the
	Contractor's equipment or on the Department's equipment.
Subsection:	402.03.03 Verification.
Part:	A) Evaluation of Sublot(s) Verified by Department.
Revision:	Replace the third sentence of the second paragraph with the following:
	When the paired t-test indicates that the Contractor's data and Department's data are possibly not
	from the same population, the Department will investigate the cause for the difference according
	to Subsection 402.03.05 and implement corrective measures as the Engineer deems appropriate.
Subsection:	402.03.03 Verification.
Part:	B) Evaluation of Sublots Not Verified by Department.
Revision:	Replace the third sentence of the first paragraph with the following:
	When differences between test results are not within the tolerances listed below, the Department
	will resolve the discrepancy according to Subsection 402.03.05.
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	Effective with the rebruary 24, 2017 Letting			
Subsection:	402.03.03 Verification.			
Part:	B) Evaluation of Sublots Not Verified by Department.			
Revision:	Replace the third sentence of the second paragraph with the following: When the F -test or t -test indicates that the Contractor's data and Department's data are possibly not from the same population, the Department will investigate the cause for the difference according to Subsection 402.03.05 and implement corrective measures as the Engineer deems appropriate.			
Subsection:	402.03.03 Verification.			
Part:	C) Test Data Patterns.			
Revision:	Replace the second sentence with the following: When patterns indicate substantial differences between the verified and non-verified sublots, the Department will perform further comparative testing according to subsection 402.03.05.			
Subsection:	402.03 CONSTRUCTION.			
Revision:	Add the following subsection: 402.03.04 Testing Equipment and Technician Verification. For mixtures with a minimum quantity of 20,000 tons and for every 20,000 tons thereafter, the Department will obtain an additional verification sample at random using the Asphalt Mixture Sample Random Tonnage Generator in order to verify the integrity of the Contractor's and Department's laboratory testing equipment and technicians. The Department will obtain a mixture sample of at least 150 lb at the asphalt mixing plant according to KM 64-425 and split it according to AASHTO R 47. The Department will retain one split portion of the sample and provide the other portion to the Contractor. At a later time convenient to both parties, the Department and Contractor will simultaneously reheat the sample to the specified compaction temperature and test the mixture for AV and VMA using separate laboratory equipment according to the corresponding procedures given in Subsection 402.03.02. The Department will evaluate the differences in test results between the two laboratories. When the difference between the results for AV or VMA is not within ± 2.0 percent, the Department will investigate and resolve the discrepancy according to Subsection 402.03.05.			
Subsection:	402.03.04 Dispute Resolution.			
Revision:	Change the subsection number to 402.03.05.			
Subsection:	402.05 PAYMENT.			
Part:	Lot Pay Adjustment Schedule Compaction Option A Base and Binder Mixtures			
Table:	AC			
Revision:	Replace the Deviation from JMF(%) that corresponds to a Pay Value of 0.95 to ±0.6.			
Subsection: Revision:	403.01 Description. Replace the sentence three and four of the first paragraph with the following: Provide a Superpave Plant Technologist (SPT) or Superpave Mix Design Technician (SMDT) qualified by the Laboratories' Quality Acceptance program. Be available to address all Quality Control concerns arising during work performed under section 403.			

	100.00.05 + 1.10
	403.02.07 Asphalt Pavers.
Revision:	Add the following to the subsection:
	7) Utilize a Durable Pavement Edge that produces material that is confined at the end gate and
	extrudes the asphalt material in such a way that results in a consolidated wedge-shape pavement
	edge of approximately 29 to 40 degrees as it leaves the paver (measured from a line parallel to the pavement surface). The device shall maintain contact to the graded material adjacent to the
	pavement and must be adjustable to allow for transition to cross roads, driveways and
	obstructions without requiring the paver to be stopped routinely. The device shall constrain the
	asphalt head and increase the density of the extruded profile. To achieve desired results, rolling is
	not required on the wedge. The desired pavement edge angle is 30 degrees.
	liet required on the wedge. The desired payernent edge ungre is 50 degrees.
	A listing of approved commercially manufactured Durable Pavement Edge systems will be
	available on the Department internet website (http://transportation.ky.gov/Constructi
	on/Pages/Kentucky -Standard- Specifications.aspx).
	If electing to not use a commercially manufactured Durable Pavement Edge system, proof shall
	be demonstrated that the device has been used on previous projects with acceptable results or a
	test section shall be constructed prior to the beginning of work which demonstrates that the
	wedge is capable of producing consolidation to the satisfaction of the Engineer. The <i>finished</i>
	angle of the Durable Pavement Edge shall be between 29 to 40 degrees. A single-plate strike-off
	method shall not be allowed for bituminous paving.
Subsection:	403.02.10 Material Transfer Vehicle (MTV).
Revision:	Replace the first sentence with the following:
	In addition to the equipment specified above, provide a MTV with the following minimum
Subsection:	characteristics:
Part:	403.03.03 Preparation of Mixture C) Mix Design Criteria
Number:	2)
Revision:	
Kevision.	Revise part 2) to read as follows: Selection of Optimum AC. Normally, the Department will
	approve the AC at an air-void content of 4.0 percent. The Engineer may assign an AC
	corresponding to other air-void levels as deemed appropriate. Ensure the optimum AC is a
	minimum of 5.2 percent by weight of the total mixture for all 0.5-inch nominal surface mixtures
	and 5.5 percent by weight of the total mixture for all 0.38-inch nominal surface mixtures.
Subsection:	403.03.08 Shoulder Rumble Strips and Pavement Texturing
Revision:	Replace the entire subsection with the following:
	Construct centerline, edgeline, and/or shoulder rumble strips according to the notes and drawings
	in the proposal, plans, and/or Standard Drawings, or as directed by the Engineer.

Unless directed otherwise by the Engineer, DO NOT install centerline, edgeline, and/or shoulder rumble strips where the posted speed limit is 45 MPH or less. Before sawing centerline and/or edgeline rumble strips, pre-mark the pavement surface and obtain the Engineer's approval of the proposed location, alignment, and control guides. After sawing the centerline and/or edgeline rumble strips, apply permanent centerline and/or edgeline striping, according to Section 713, on the sawed rumble strips at the locations approved by the Engineer. Before sawing shoulder rumble strips, obtain the Engineer's approval of the proposed layout, location, and alignment. Notify the Engineer if questions arise regarding changes in striping and/or rumble patterns. If necessary, the Engineer may obtain guidance from the District Traffic Engineer and/or the Division of Traffic Operations.

Section:

403.03 CONSTRUCTION.

Revision:

Add the following Section: 403.03.14 Durable Pavement Edge.

The contractor will have the option to pave roadway shoulders monolithically with mainline pavement or by separate operation. However, if the shoulder is placed monolithically, with the mainline material, the Durable Pavement Edge shoe shall be used for the placement of the asphalt. For divided highways, the Durable Pavement Edge must be added to both median and outside bituminous shoulders when the paved shoulder width is 6 feet or narrower.

Construct the edge to the depth, width, and slope the Contract specifies where existing conditions permit. Remove the sod or perform trench excavation only when necessary to obtain the specified depth and width. Do not remove solid rock. Provide enough area to construct the Durable Pavement Edge so that the Durable Pavement Edge will be placed on solid material, free of debris such as loose material, grass, weeds or mud. The edge should be compacted such that there is no loose material. Short sections of handwork will be allowed for pavement transitions and turnouts.

Durable Pavement Edge is not intended for the following:

- 1) Centerline pavement joint.
- 2) Joint between paved side road and mainline.
- 3) Bridge decks.
- 4) Adjacent to concrete barrier.
- 5) Adjacent to curb and gutter.
- 6) Edges between adjoining pavements.
- 7) Centerline pavement joint.
- 8) Mainline and taper joint.
- 9) Mainline and turning joints.

The Durable Pavement Edge shall be applied when all of the following criteria are met, unless otherwise directed by the Engineer:

1) New bituminous pavement/shoulder or bituminous overlay is being constructed with at least 1-(one) inch of paving depth; 2)

The posted speed is 40 mph and higher;

- 3) Pavements/shoulders that are not adjacent to curbing; and
- 4) Pavements/shoulders that are not adjacent to barrier wall.

	The Durable Pavement Edge may be omitted in the following situations with the approval of							
	the Engineer:							
	1) Areas where existing drop-offs at the edge of existing pavement exceed 5 inches.							
	2) Areas where the distance from pavement edge to Durable Pavement Edge catch point							
	exceeds 9 inches or where slopes are steeper than 3:1.							
Subsection:	403.04.07 Rumble Strips.							
Revision:	Rename the subsection to the following: Centerline, Edgeline, and Shoulder Rumble Strips and replace the paragraph with the following:							
	1 1		d rumble strips in linear feet. The Department					
	-		ion 713. The Department will measure					
	_		the Traffic Control Plan, and/or when directed					
			n the rumble pattern, the Department will					
	-		rement of the rumble. The Department will					
			tted, such as at intersections, crosswalks,					
			vill not measure temporary striping that is only					
	_		mble strips. The Department will not measure					
	_	_	I layout, surface preparation, corrective work,					
			construct rumble strips, and will consider					
		cidental to the installation of the rum						
	these items in	ordental to the installation of the falls	5010 Stilps.					
Section:	403.04 MEAS	SUREMENT.						
Revision:	Add the follow	wing subsection: 403.04.09 D	urable Pavement Edge. The Department will					
	not consider the Durable Pavement Edge for payment and will consider its use incidental to the							
	asphalt mixture.							
Subsection:	403.05 Payme	ent.						
Revision:	Replace the b	id code table with the following:						
	Code	Pay Item	Pay Unit					
	06600	Remove Pavement Marker Type V	Each					
	01791	Adjust Manhole Frame to Grade	Each					
	02697	Edgeline Rumble Strips	Linear Foot					
	20458ES403		Linear Foot					
	02696	Shoulder Rumble Strips	Linear Foot					
Subsection:		terial Transfer Vehicle (MTV).						
Revision:		aragraph with the following:						
			racteristics outlined in section 403.02.10.					
Subsection:		cement and Compaction.						
Revision:		rst paragraph with the following:						
120 (151011)	1 *		ving lanes. The MTV is not required on ramps					
			When the Engineer determines the use of the					
		_	ne Engineer may waive its requirement for that					
	_							
	portion of pavement by a letter documenting the waiver.							

							-
Subsection:	412.04 MEASUREMENT.						
Revision:	Add the following subsection:						
110 (101011)	412.04.03. Material Transfer Vehicle (MTV). The Department will not measure the MTV for						
	· / ·						
a	payment and will consider its use incidental to the asphalt mixture.						
	501.03.19 Surface 7	folerances an	d Testing S	Surface.			
Part:	B) Ride Quality.						
Revision:	Add the following t	o the end of t	he first par	agraph:			
	The Department wi	ll specify if th	e ride qual	lity requi	rements are	Category A or Ca	tegory B when
	ride quality is speci						
	the Department fail					-	
	line Department fam	s to classify v	viiicii iide (quarity 10	quirement	will apply to the C	ontract.
G 1 4	501 02 05 W	T: ''	1.D. ()				
	501.03.05 Weather						
Revision:	Replace the referen	ce to Subsecti	ion 501.03	.19 in Pai	ragraph 5,	with Subsection 50	01.03.20.
Subsection:	601.02.02 Cement						
Revision:	Replace the third se	ntence with the	he followir	ng: The I	Department	will allow the use	of Type
	$IP(\leq 20)$, Type $IS(\leq 3)$			_	•		• •
Subsection:	601.02.02 Cement), JF :;	J1,	71		<u> </u>	
Revision:	Replace the fifth ser	ntence with th	ne followin	o If une	atisfactory	test results are obt	ained using
Kevisioii.	-			_	-		•
	Type IP(≤20), Type	15(≥30), 1 y ₁	e il, Type	: 11, 01 1 y	pe m ceme	ent complete the w	ork using Type
	I cement.						
Subsection:	601.03.02 Concrete	Producer Re	sponsibiliti	es.			
Part:	E) Trip Tickets.						
Revision:	Replace the section	with the follo	owing:	Furnis	sh a trip ticl	ket containing the	minimum
	information shown	in the table be	elow. Certi	fy that th	e data on th	ne ticket is correct	and that the
	mixture conforms to			-			
	concrete technician		7	-	-	_	
	necessary informati	-		_	s joosite iii	special will comp	ete un other
	inccessary informati	on on the bac	K OI the th	p ticket.			
	Contract Ide	Desi Number	Data	Country			+
	Contract Id: Truck No:	Proj. Number: Producer Name:	Date:	County:	ger Sample Id:		+
	Qty(Yds ³):	Time Loaded (No					
	Begin Mixing 1	Time:	AM PM	REV			
	Set Retarder U		Yes	Type	No		
	Water Reduce		Yes Gal/Yd ³	Type	No otal Gallons		+
	Design W/C:		Slump (inch		tal dallolis		+
	Batch Weight Information:						
	Material: D	escription: Des	ign Qty: Req	uired: Bat	ched: %Var:	%Moisture: Actual:	
	Remarks:						+
	incinarios.						
	*The data on t	his ticket is corre	ct for the app	roved concr	ete mix design.	*	
	0:				D-1		+
	Signature: Date: KRMCA Level II Technician or Plant Manager						+
	KNINGS cever in reclinician of Frank Manager						+

G 1 41	(01.02.02.D						
	601.03.03 Proportioning and Requirements						
Part:	A) Concrete						
Revision:	Revise Table for INGREDIENT PROPORTIONS AND REQUIREMENTS FOR VARIOUS						
	CLASSES OF CONCRETE as follows: Replace "M1 w/ Type 1 cement" with "M1 w/ Type 1 or						
	blended hydraulic cement"						
	CO1 02 02 D						
	601.03.03 Proportioning and Requirements						
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures						
Revision:	Revise part C) header to read as follows: Mixtures Using Type IP(\(\leq 20 \)), IS(\(\leq 30 \)), and IL Cement						
C14:	and Mineral Admixtures.						
	601.03.03 Proportioning and Requirements						
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures						
Number:	1) D: C + + + 1 C 11 T ID(<20) IG(<20) II C +						
Revision:	Revise first sentence to read as follows: Type $IP(\le 20)$, $IS(\le 30)$, IL Cement.						
	601.03.03 Proportioning and Requirements						
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures						
Number:							
Revision:	Revise second sentence to read as follows: The use of fly ash, blast furnace slag cement, or						
	microsilica in concrete is the Contractor's option.						
Subsection:	601.03.03 Proportioning and Requirements						
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures						
Number:							
Revision:	Revise the first sentence in the second paragraph to read as follows: When the ability to use blast						
	furnace slag cement or microsilica has not been demonstrated have the concrete producer provide						
	trial batches in accordance with Subsection 601.03.02 G) 1).						
	601.03.03 Proportioning and Requirements						
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures						
Number:	2)						
Part:	b)						
Revision:	Revise first sentence to read as follows: Blast Furnace Slag Cement						
Subsection:	601.03.03 Proportioning and Requirements						
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures						
Number:	2)						
Part:	b) Device second contends to read as follows: When added as a senerate ingredient was Crade 120.						
Revision:	Revise second sentence to read as follows: When added as a separate ingredient, use Grade 120						
	or Grade 100 slag to reduce the quantity of cement, except do not use blast furnace slag cement						
Cuba-4'	to reduce the quantity of Type IS(\leq 30) cement.						
	601.03.03 Proportioning and Requirements						
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures						
Number:	2)						
Part:	b)						
Revision:	In part b), replace all references to "GGBF slag" with "blast furnace slag cement".						

	Effective with the February 24, 2017 Letting
Subsection:	601.03.04 Classes and Primary Uses
Part:	H) Class M1
Revision:	Revise part H) to read as follows: High early strength for bridge joint repair and full or partial
	depth bridge deck patching. (Type 1 cement or blended hydraulic cement)
Subsection:	603.03.06 Cofferdams.
Revision:	Replace the seventh sentence of paragraph one with the following:
	Submit drawings that are stamped by a Professional Engineer licensed in the Commonwealth of
	Kentucky.
Subsection:	605.03.04 Tack Welding.
Revision:	Insert the subsection and the following:
	605.03.04 Tack Welding. The Department does not allow tack welding.
Subsection:	606.03.17 Special Requirements for Latex Concrete Overlays.
Part:	A) Existing Bridges and New Structures.
Number:	1) Prewetting and Grout-Bond Coat.
Revision:	Add the following sentence to the last paragraph: Do not apply a grout-bond coat on bridge
	decks prepared by hydrodemolition.
Subsection:	609.03 Construction.
Revision:	Replace Subsection 609.03.01 with the following:
	609.03.01 A) Swinging the Spans. Before placing concrete slabs on steel spans or precast
	concrete release the temporary erection supports under the bridge and swing the span free on its
	supports.
	609.03.01 B) Lift Loops. Cut all lift loops flush with the top of the precast beam once the beam
	is placed in the final location and prior to placing steel reinforcement. At locations where lift
	loops are cut, paint the top of the beam with galvanized or epoxy paint.
Subsection:	611.03.02 Precast Unit Construction.
Revision:	Replace the first sentence of the subsection with the following:
	Construct units according to ASTM C1577, replacing Table 1 (Design Requirements for
	Precast Concrete Box Sections Under Earth, Dead and HL-93 Live Load Conditions) with
	KY Table 1 (Precast Culvert KYHL-93 Design Table), and Section 605 with the following
	exceptions and additions:
Subsection:	613.03.01 Design.
Number:	2)
Revision:	Replace "AASHTO Standard Specifications for Highway Bridges" with "AASHTO LRFD
	Bridge Design Specifications"
	615.06.02
Revision:	Add the following sentence to the end of the subsection.
	The ends of units shall be normal to walls and centerline except exposed edges shall be beveled
	³ ⁄ ₄ inch.
	615.06.03 Placement of Reinforcement in Precast 3-Sided Units.
Revision:	Replace the reference of 6.6 in the section to 615.06.06.
	615.06.04 Placement of Reinforcement for Precast Endwalls.
Revision:	Replace the reference of 6.7 in the section to 615.06.07.

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		from transport to the jobsite.

	Effective with the February 24, 2017 Letting
Subsection:	701.04.16 Deduction for Pipe Deflection.
Revision:	Insert the following at the end of the paragraph:
	The section length is determined by the length of the pipe between joints where the failure
	occurred.
Subsection:	716.02.02 Paint.
Revision:	Replace sentence with the following: Conform to Section 821.
Subsection:	716.03 CONSTRUCTION.
Revision:	Replace bullet 5) with the following: 5) AASHTO Standard Specifications for Structural
	Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current
	interims,
Subsection:	716.03.02 Lighting Standard Installation.
Revision:	Replace the paragraph with the following:
	Locate poles to avoid trees, drainage, structures, etc. Regardless of the station & offset noted,
	locate all poles/bases behind guardrail a minimum of 4 feet behind the face of the guardrail. All
	poles shall be placed as close to stations and offsets as stated on Plans to provide proper
	illumination. If any pole needs to be relocated from stations indicated, the Division of Traffic
	Operations shall be contacted. When submitting brochures for suggested luminaires include iso
	lux curves, IES type distribution, lamp lumens, and typical ballast factor used for each type of
	luminaire. Submit the photometric data in a digital IES format to the Division of Traffic
	Operations. Include with the submittal a point of contact and phone number to answer technical
	questions about the luminaire.
Subsection:	716.03.02 Lighting Standard Installation.
Part:	A) Conventional Installation.
Revision:	Replace the third sentence with the following: Orient the transformer base so the door is
	positioned on the side away from on-coming traffic.
Subsection:	716.03.02 Lighting Standard Installation.
Part:	A) Conventional Installation.
Number:	1) Breakaway Installation and Requirements.
Revision:	Replace the first sentence with the following: For breakaway supports, conform to Section 12 of
	the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires,
C14	and Traffic Signals, 2013-6th Edition with current interims.
Subsection:	716.03.02 Lighting Standard Installation. P) High Most Installation
Part: Revision:	B) High Mast Installation Replace the first three sentences of the first paragraph with the following: Install each high mast
Vealeioii:	pole as noted on Plans. Install each high mast pole on a separate circuit and use luminaires with
	light patterns as indicated. Orient luminaires as shown in Plans.
Subsection:	716.03.02 Lighting Standard Installation.
Part:	B) High Mast Installation
Number:	2) Concrete Base Installation
Revision:	Modification of Chart and succeeding paragraphs within this section:
14C 1131U11.	paragraphs within this section.
	1

Drilled	Shaft Dep	th Data					
	•	3:1	Ground	2:1 (Fround	1.5:1	Ground
Level	Ground	S	lope	SI	lope	Slo	pe ⁽²⁾
Soil	Rock	Rock Soil Rock		Soil	Rock	Soil	Rock
17 ft	7 f t	19 ft	7 ft	20 ft	7 f t	(1)	7 f t
Steel R	Lequireme	nts		·			
Ver	tical Bars		Ties	or Spiral			

Steel Ice	Steel Reduirements			
Vert	ical Bars	Tie	s or Spiral	
Size	Total	Size	Spacing or Pitch	
#10	16	#4	12 inch	

Note 1: Shaft length is 22 feet for cohesive soil only. For cohesionless soil, contact Geotechnical Branch for design. Note 2: Do not construct high mast drilled shafts on ground slopes steeper than 1.5:1 without the approval of the Division of Traffic Operations.

If rock is encountered during drilling operations and confirmed by the Engineer to be of sound quality, the shaft is only required to be further advanced into the rock by the length of rock socket shown in the design table. The total length of the shaft need not be longer than that of soil alone. Both longitudinal rebar length and number of ties or spiral length shall be adjusted

If a shorter depth is desired for the drilled shaft, the Contractor shall provide, for the state's review and approval, a detailed column design with individual site specific soil and rock analysis performed and approved by a Professional Engineer licensed in the Commonwealth of Kentucky.

Spiral reinforcement may be substituted for ties. If spiral reinforcement is used, one and one-half closed coils shall be provided at the ends of each spiral unit. Subsurface conditions consisting of very soft clay or very loose saturated sand could result in soil parameters weaker than those assumed. Engineer shall consult with the Geotechnical Branch if such conditions are

The bottom of the drilled hole shall be firm and thoroughly cleaned so no loose or compressible materials are present at the time of the concrete placement. If the drilled hole contains standing water, the concrete shall be placed using a tremie to displace water. Continuous concrete flow will be required to insure full displacement of any water.

The reinforcement and anchor bolts shall be adequately supported in the proper positions so no movement occurs during concrete placement. Welding of anchor bolts to the reinforcing cage is unacceptable, templates shall be used. Exposed portions of the foundation shall be formed to create a smooth finished surface. All forming shall be removed upon completion of foundation construction.

Subsection: 716.03.03 Trenching.

Part:

A) Trenching of Conduit for Highmast Ducted Cables.

Revision:

Add the following after the first sentence: If depths greater than 24 inches are necessary, obtain the Engineer's approval and maintain the required conduit depths coming into the junction boxes. No payment for additional junction boxes for greater depths will be allowed.

Subsection:	716.03.03 Trenching.
Part:	B) Trenching of Conduit for Non-Highmast Cables.
Revision:	Add the following after the second sentence: If depths greater than 24 inches are necessary for
	either situation listed previously, obtain the Engineer's approval and maintain the required
	conduit depths coming into the junction boxes.
Subsection:	716.03.04 Conduit Installation.
Revision:	Replace the first two sentences of the paragraph with the following: Provide rigid steel conduit
	encasement for all conductors except as specified in the Contract. Provide conduit that is listed
	on the Department's List of Approved Materials.
Subsection:	716.03.04 Conduit Installation.
Part:	A) Conduit Requirements in Junction Boxes.
Number:	1) Highmast Ducted Cable.
Revision:	Replace the first two sentences with the following: Install conduit horizontally through the
	junction box. Conduit shall be 4 inches from the bottom and 4 inches from the side of the
	junction box.
	716.03.04 Conduit Installation.
Revision:	Add the following to the Part to the Subsection: G) Bore and Jack. Construction
	methods shall be in accordance with Subsections 706.03.02, paragraphs 1, 2 and 4.
	716.03.08 Splicing.
Revision:	Replace the last sentence of the paragraph with the following: Ensure the splices are of the
	correct size for the wire being used.
	716.03.10 Junction Boxes.
Revision:	Replace subsection title with the following: Electrical Junction Box and replace the last sentence
	of the paragraph with the following: Any additional junction boxes shall be approved by the
	Engineer.
	716.03.13 Temporary Lighting.
	Change subsection heading to the following: 716.03.13 Temporary/Maintain Lighting.
	716.03.13 Temporary /Maintain Lighting.
Revision:	Replace the entire section with the following: The Contractor shall furnish and install all materials necessary to temporarily light the proposed
	roadway to design standards in Subsection 716.03. The Contractor shall submit his proposed
	design of temporary lighting to the Division of Traffic Operations for approval at least 30 days
	before installation.
	octore instanation.
	Maintain all lighting elements impacted within or outside the project limits until new lighting
	elements are installed and a functional inspection has been performed on the new lighting
	elements. The Contractor shall submit a proposed design for maintaining lighting to the Division
	of Traffic Operations for approval at least 30 days before installation.
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Subsections	716.03.14 Remove Lighting.
Revision:	1
Revision:	Replace the section with the following: Remove all lighting equipment that is identified by the Engineer as no longer necessary including, but not limited to, the following: pole bases, poles, junction boxes, cabinets, and wood poles. Pole bases shall be removed a minimum of one foot below finished grade by chipping off or other method that is approved by the Engineer. Dispose of all removed concrete off right-of-way. Wood poles shall be removed a minimum of one foot below finished grade. Backfill holes with material approved by the Engineer. Conduit may be abandoned in the ground. All materials shall be removed from the project as directed by the Engineer. Transformers not owned by a utility shall be tested for PCB's and disposed of in accordance with state regulations.
Subsection:	716.03.15 Painting.
Revision:	Replace the first sentence with the following: Clean non-galvanized or damaged surfaces of
	exposed junction boxes, pull boxes, control panels, poles, and similar equipment, and apply one
	coat of an inhibiting paint and two coats of aluminum paint.
Subsection:	716.04.01. Poles.
Revision:	Change the subsection heading to 716.04.01 Pole and replace the last sentence of the subsection
	with the following: The Department will not measure anchor bolts, washers, nuts, anchor bolt
	covers, ground lugs, and any associated hardware for payment and will consider them incidental
	to this item of work.
Subsection:	716.04.02 High Mast Pole.
Revision:	Replace the second sentence with the following: The Department will not measure the lowering
	device, anchor bolts, head frame assembly, cables, winch unit, power cables, wiring, connectors,
	circuit breakers, grounding lugs, ground wire, ground rods, conduits, test plugs,, adjustment and
	calibration of the unit to provide the desired operation, and any associated hardware for payment
	and will consider them incidental to this item of work.
	716.04.03 Bracket.
Revision:	Replace the second sentence with the following: The Department will not measure any
	associated hardware needed for attaching the bracket to the pole for payment and will consider
	them incidental to this item of work.
Subsection:	716.04.04 Pole Base.
Revision:	Change the subsection heading to 716.04.04 Pole Bases and delete the paragraph.
	716.04.04 Pole Bases.
Revision:	Insert the following:
	A. Pole Base. The Department will measure the quantity as each individual unit furnished
	and installed. The Department will not measure excavation, concrete, conduits, fittings, ground
	rods, ground wires, ground lugs, reinforcing steel, restoring disturbed areas to the satisfaction of
	the Engineer, and any associated hardware for payment and will consider them incidental to this
	item of work. Pole Rese High Most. The Department will measure the quantity in cubic yards furnished.
	B. Pole Base High Mast. The Department will measure the quantity in cubic yards furnished
	and installed. The Department will not measure excavation, concrete, conduits, fittings, ground
	rods, ground wires, ground lugs, reinforcing steel, restoring disturbed areas to the satisfaction of
	the Engineer, and any associated hardware for payment and will consider them incidental to this item of work.
	Item of work.

Revision: Replace the last sentence with the following: The Department will not measure conduits, fittings, junction boxes, additional reinforcing steel, ground rods, ground wire, ground lugs, and aluminum cover plates (if specified) for payment, and will consider them incidental to this item of work. 716.04.06 Transformer Base. Revision: Revi		
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Revision: Replace the last sentence with the following: The Department will not measure transformer door, ground lug, anchoring bolts, nuts, washers, and any associated hardware for payment and will consider them incidental to this item of work. 716.04.07 Pole with Secondary Equipment. Revision: Revision: Revision: Replace the heading with the following: 716.04.07 Pole with Secondary Control Equipment. Replace the second and third sentence with the following: The Department will not measure mounting the cabinet to the pole, backfilling, restoration, any necessary hardware to anchor pole, electrical inspection fees, and required building fees involving utility secondary, and primary service for payment and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breaker, contactor, manual switch, ground rods, ground lugs, and ground wires for payment and will consider them incidental to this item of work. The filling of unused holes will also be considered incidental to this item of work. Subsection: Revision: Revision: Revision: Replace the paragraph with the following: The Department will not measure the quantity as each individual unit furnished and installed. The Department will not measure the concrete base, excavation, backfilling, restoration, any necessary anchors, electrical inspection fees, and required building fees involving utility secondary/primary service for payment and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breakers, contactor, manual switch, ground rods, ground lugs, and ground wires for payment and will consider them incidental to t	Revision:	Replace the last sentence with the following: The Department will not measure conduits, fittings, junction boxes, additional reinforcing steel, ground rods, ground wire, ground lugs, and aluminum cover plates (if specified) for payment, and will consider them incidental to this item of work.
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Revision: Replace the heading with the following: 716.04.07 Pole with Secondary Control Equipment. 716.04.07 Pole with Secondary Control Equipment. Replace the second and third sentence with the following: The Department will not measure mounting the cabinet to the pole, backfilling, restoration, any necessary hardware to anchor pole, electrical inspection fees, and required building fees involving utility secondary, and primary service for payment and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breaker, contactor, manual switch, ground rods, ground lugs, and ground wires for payment and will consider them incidental to this item of work. The filling of unused holes will also be considered incidental to this item of work. Revision: Revision: 716.04.08 Lighting Control Equipment. Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will measure the concrete base, excavation, backfilling, restoration, any necessary anchors, electrical inspection fees, and required building fees involving utility secondary/primary service for payment and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breakers, contactor, manual switch, ground rods, ground lugs, and ground wires for payment and will consider them incidental to this item of work. The Department will not measure the filling of any unused holes with and will consider them incidental to this item of work. Revision: 716.04.09 Luminaire. Revision: 716.04.09 Luminaire. Replace the paragraph with the followin	Revision:	
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Revision: Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure the concrete base, excavation, backfilling, restoration, any necessary anchors, electrical inspection fees, and required building fees involving utility secondary/primary service for payment and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breakers, contactor, manual switch, ground rods, ground lugs, and ground wires for payment and will consider them incidental to this item of work. The Department will not measure the filling of any unused holes with and will consider them incidental to this item of work. Subsection: Revision: 716.04.09 Luminaire. Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure lamps, starters, ballasts, drivers, surge protection, dimming modules, photo-control receptacle, specified shielding (if required), and any adjustments necessary to provide the desired lighting pattern for payment and will consider them incidental to this item of work. Subsection: 716.04.10 Fused Connector Kits.	Subsection:	716.04.08 Lighting Control Equipment.
Revision: Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure lamps, starters, ballasts, drivers, surge protection, dimming modules, photo-control receptacle, specified shielding (if required), and any adjustments necessary to provide the desired lighting pattern for payment and will consider them incidental to this item of work. Subsection: 716.04.10 Fused Connector Kits.	Revision:	Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure the concrete base, excavation, backfilling, restoration, any necessary anchors, electrical inspection fees, and required building fees involving utility secondary/primary service for payment and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breakers, contactor, manual switch, ground rods, ground lugs, and ground wires for payment and will consider them incidental to this item of work. The Department will not measure the filling of any unused holes with and will consider them
individual unit furnished and installed. The Department will not measure lamps, starters, ballasts, drivers, surge protection, dimming modules, photo-control receptacle, specified shielding (if required), and any adjustments necessary to provide the desired lighting pattern for payment and will consider them incidental to this item of work. Subsection: 716.04.10 Fused Connector Kits.	Subsection:	
Subsection: 716.04.10 Fused Connector Kits.	Revision:	individual unit furnished and installed. The Department will not measure lamps, starters, ballasts, drivers, surge protection, dimming modules, photo-control receptacle, specified shielding (if required), and any adjustments necessary to provide the desired lighting pattern for payment and
	Subsection:	

Subsection:	716.04.10 Fuse Connector Kits.
Revision:	Replace the paragraph with the following: The Department will measure the quantity as each
	individual unit furnished and installed. The Department will not measure fuses/lugs for payment
	and will consider them incidental to this item of work.
Subsection:	716.04.11 Conduit.
Revision:	Replace the second sentence with the following: The Department will not measure installation
	in ground or on structures, conduit fittings, test plugs, expansion joints with bonding straps,
	grounding lugs, drill anchors, clamps, and any additional hardware required for payment and will
	consider them incidental to this item of work.
Subsection:	716.04.12 Markers.
Revision:	Replace the section with the following: The Department will measure the quantity as each
	individual unit furnished and installed.
Subsection:	716.04.13 Junction Box.
Revision:	Replace the subsection title with the following: Electrical Junction Box Type Various.
Subsection:	716.04.13 Electrical Junction Box Type Various.
Revision:	Replace the section with the following: The Department will measure the quantity as each
	individual unit furnished and installed. The Department will not measure additional junction
	boxes for greater depths than those identified in Plans, #57 aggregate, backfilling, restoration of
	disturbed areas to the satisfaction of the Engineer, geotextile filter fabric, concrete, hot dipped
	galvanized cover, stainless steel screws, rubber gasket, and any associated hardware for payment
	, and will consider them incidental to this item of work.
Subsection:	716.04.13 Junction Box.
Part:	A) Junction Electrical.
Revision:	Delete Part A.
Subsection:	
Revision:	Replace the section with the following: The Department will measure the quantity in linear feet.
	The Department will not measure excavation, backfilling, underground utility warning tape (if
	required), and the restoration of disturbed areas to original condition for payment and will
	consider them incidental to this item of work.
Subsection:	
Revision:	Replace the section with the following: The Department will measure the quantity in linear feet
	furnished and installed. The Department will not measure installation within conduit, splice
	boots, and any other hardware required for installing cable for payment and will consider them
	incidental to this item of work.
Subsection:	716.04.16 Ducted Cable.
Revision:	Replace the second sentence of the paragraph with the following: The Department will not
	measure installation within trench or conduit and any other necessary hardware for payment and
	will consider them incidental to this item of work.
Subsection:	1 7 6 6
Revision:	Rename the subsection as follows: 716.04.17 Temporary Lighting/Maintain Lighting.

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	716.04.17 Temporary Lighting/Maintain Lighting.				
Revision:	Delete the paragraph and add the following parts:				
	A) Temporary Lighting. The Department will measure the quantity by lump sum. The				
	Department will not measure poles, luminaires, wire, conduit, trenching and backfilling, control				
	equipment, all relocations and removal, design (if required), and any other necessary hardware to				
	make a complete installation for payment and will consider them incidental to this item of work.				
	B) Maintain Lighting. The Department will measure the quantity by lump sum. The Department				
	will not measure maintenance of lighting elements and design (if required) for payment and will				
	consider them incidental to this item of work.				
Subsection:	716.04.18 Remove Lighting.				
Revision:	Replace the paragraph with the following: The Department will measure the quantity by lump				
	sum. The Department will not measure backfilling and the disposal or transportation of				
	equipment and materials associated with any structural or electrical component of the lighting				
	system including, but not limited to pole bases, poles, junction boxes, cabinets, and wood poles				
	for payment and will consider them incidental to this item of work.				
Subsection:	716.04.19 Remove Pole Base.				
Revision:	Delete Subsection.				
Subsection:	716.04.20 Bore and Jack Conduit.				
Revision:	Renumber Subsection to 716.04.19 Bore and Jack Conduit.				
Subsection:	716.04.19 Bore and Jack Conduit.				
Revision:	Replace the paragraph with the following: The Department will measure the quantity in linear				
	feet. This item shall include all work necessary for boring and installing conduit under an				
	existing roadway.				
Subsection:	716.05 PAYMENT.				
Revision:	Revise the following under <u>Code</u> , <u>Pay Item</u> , and <u>Pay Unit</u> with the following:				
	<u>Code</u> <u>Pay Item</u> <u>Pay Unit</u>				
	04700-04701 Pole(Various)Mtg Ht Each				
	04710-04714 Pole(Various)Mtg Ht High Mast Each				
	04810-04811 Electrical Junction Box (Various) Each				
	20391NS835 Electrical Junction Box Type A Each				
	20392NS835 Electrical Junction Box Type C Each				
	04770-04773 Luminaire (Various) Each				
	04780 Fuse Connector Kit Each				
	20410ED Maintain Lighting Lump Sum				
	04941 Remove Pole Base Each				
Subsection:	723.02.02 Paint.				
Revision:	Replace sentence with the following: Conform to Section 821.				
Subsection:	723.03 CONSTRUCTION.				
Revision:	Replace bullet 5) with the following: 5) AASHTO Standard Specifications for Structural				
	Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current				
	interims,				

Subsection:	723.03.02 Poles and Bases Installation.
Revision:	Replace the title with the following: 723.03.02 Pole and Base Installation.
Subsection:	723.03.02 Pole and Base Installation.
Revision:	Replace the first paragraph with the following: Regardless of the station and offset noted,
	locate all poles/bases behind the guardrail a minimum of four feet from the front face of the
	guardrail to the front face of the pole base. Orient the handhole door away from traffic travel
	path. If pole base is installed within a sidewalk the top of the pole base shall be the same grade
	as the sidewalk.
Subsection:	723.03.02 Poles and Bases Installation.
Part:	A) Steel Strain and Mastarm Poles Installation
Revision:	Replace the title of Part A) Steel Strain and Mast Arm Pole Installation.
Subsection:	723.03.02 Pole and Base Installation.
Part:	A) Steel Strain and Mast Arm Pole Installation.
Revision:	Insert the following sentence at the beginning of the first paragraph: Install pole bases 4 to 6
	inches above grade.
Subsection:	723.03.02 Pole and Base Installation.
Part:	A) Steel Strain and Mast Arm Pole Installation.
Revision:	Replace the second paragraph with the following: For concrete base installation, see Subsection
	716.03.02 B), 2), Paragraphs 2-6. Drilled shaft depth shall be based on the soil conditions
	encountered during drilling and slope condition at the site. Refer to the design chart below:
Subsection:	723.03.02 Pole and Base Installation.
Part:	B) Pedestal or Pedestal Post Installation.
Revision:	Replace the second sentence with the following: If over 12 feet high the base shall have the
	minimum depth and diameter as Subsection 716.03.02 (A), paragraph 2.
Subsection:	723.03.02 Poles and Bases Installation.
Part:	B) Pedestal or Pedestal Post Installation.
Revision:	Replace the fourth sentence of the paragraph with the following: For breakaway supports,
	conform to Section 12 of the AASHTO Standard Specifications for Structural Supports for
G. L	Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.
Subsection:	723.03.03 Trenching.
Revision: Subsection:	Replace the first sentence with the following: See Subsection 716.03.03 (B). 723.03.03 Trenching.
Part:	A) Under Roadway.
Revision:	Delete Part A) Under Roadway.
Subsection:	723.03.05 Conduit Requirements in Junction Boxes.
Revision:	Delete the Subsection and replace with the following:
ACVISIUII.	723.03.05 Fuse Connector Kits. See Subsection 716.03.09.
Subsection:	723.03.06 Coupling Installation.
Revision:	Delete the Subsection and replace with the following:
IXC VISIUII.	723.03.06 Painting. See Subsection 716.03.15.
Subsection:	723.03.07 Bonding Requirements.
Revision:	Delete the Subsection and replace with the following:
ALC VISIOII.	723.03.07 Electrical Junction Boxes. See Subsection 716.03.10.
	123.03.07 Dicenticul sufficient Boxes. Dec Bubbection / 10.03.10.

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	723.03.08 Painting.
	Replace with 723.03.06 Painting. See Subsection 716.03.15.
	723.03.09 Underground Warning Tape.
	Renumber Subsection to 723.03.08 Underground Warning Tape.
	723.03.10 Backfilling and Disturbed Areas.
	Renumber Subsection to 723.03.09 Backfilling and Disturbed Areas.
	723.03.11 Wiring Installation.
	Renumber Subsection to 723.03.10 Wiring Installation.
	723.03.10 Wiring Installation.
Revision:	Add the following sentence between the fifth and sixth sentences: Provide an extra two feet of
	loop wire and lead-in past the installed conduit in poles, pedestals, and junction boxes.
Subsection:	723.03.12 Loop Installation.
Revision:	Renumber Subsection to 723.03.11 Loop Installation.
Subsection:	723.03.11 Loop Installation.
Revision:	Replace the fourth sentence of the 2nd paragraph with the following: Provide an extra two feet of
	loop wire and lead-in past the installed conduit in poles, pedestals, and junction boxes.
Subsection:	723.03.13 Grounding Installation.
Revision:	Renumber Subsection to 723.03.12 Grounding Installation.
Subsection:	723.03.12 Grounding Installation.
Revision:	Replace the reference to "Standard Detail Sheets" in the first sentence with "Plans".
Subsection:	723.03.14 Splicing.
Revision:	Renumber Subsection to 723.03.13 Splicing.
Subsection:	723.03.13 Splicing.
Revision:	Delete the reference to (IMSA 19-2) from the 5th sentence of the paragraph.
Subsection:	723.03.15 Painting.
Revision:	Delete Subsection.
Subsection:	723.03.14 Splicing.
	Replace with new Subsection 723.03.14 Remove Signal Equipment.
Subsection:	723.03.14 Remove Signal Equipment.
Revision:	Insert the following for the new subsection: Remove all traffic signal equipment that is
	identified by the Engineer as no longer necessary including, but not limited to, the following:
	pole bases, poles, junction boxes, cabinets, wood poles, and advance warning flashers. Pole
	bases shall be removed a minimum of one foot below finished grade by chipping off or other
	method that is approved by the Engineer. Dispose of all removed concrete off right-of-way.
	Wood poles shall be removed a minimum of one foot below finished grade. Backfill holes with
	material approved by the Engineer. Conduit may be abandoned in the ground. Contact the
	district traffic Engineer to determine if any removed signal equipment needs to be returned to the
	district and to determine the location/time for such deliveries.
Subsection:	723.05.16 Drawings.
Revision:	Renumber the Subsection to 723.03.15 Drawings.

Subsection:	723.03.15 Drawings.			
Revision:	Replace Subsection with the following: Before final inspection of the traffic control device, provide a complete set of reproducible as-built drawings that show the arrangement and locations of all equipment including: junction boxes, conduits, spare conduits, etc. Keep a daily record of all conduits placed in trenches, showing the distance from the pavement edge, the depth, and the length of runs, and indicate this information on the as-built drawings.			
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Revision:	Renumber Subsection to 723.03.16 Acceptance and Inspection Requirements.			
Subsection:	723.03.16 Acceptance and Inspection Requirements.			
Revision:	Replace the first paragraph of the section with the following: See Subsection 105.12. In coordination with the District Traffic Engineer, energize traffic control device as soon as it is fully functional and ready for inspection. After the work has been completed, conduct an operational test demonstrating that the system operates in accordance with the Plans in the presence of the Engineer. The Department will also conduct its own tests with its own equipment before final acceptance. Ensure that the traffic control device remains operational until the Division of Traffic Operations has provided written acceptance of the electrical work.			
Subsection:	723.04.01 Conduit.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not measure conduit fittings, ground lugs, test plugs, expansion joints, and clamps for payment and will consider them incidental to this item of work.			
Subsection:	723.04.02 Junction Box.			
Revision:	Replace subsection title with the following: Electrical Junction Box Type Various.			
Subsection:	7.1			
Revision:	Replace the subsection with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure additional junction boxes for greater depths than those identified in Plans, Aggregate (#57), backfilling, restoration of disturbed areas to the satisfaction of the Engineer, geotextile fabric, concrete, hot dipped galvanized cover, stainless steel screws, rubber gasket, and any associated hardware for payment and will consider them incidental to this item of work.			
Subsection:	723.04.03 Trenching and Backfilling.			
Revision:	Replace the second sentence with the following: The Department will not measure excavation, backfilling, underground utility warning tape, and the restoration of disturbed areas to original			
Cubaastiass	condition for payment and will consider them incidental to this item of work.			
Subsection: Revision:	723.04.04 Open Cut Roadway. Replace the second sentence of the subsection with the following: The Department will not			
Kevisiuii;	measure concrete, reinforcing steel, and asphalt for payment and will consider them incidental to this item of work.			
Subsection:	723.04.05 Loop Wire.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not measure splice boots, cable rings, and any other necessary hardware for payment and will consider them incidental to this item of work.			

Subsection:	723.04.06 Cable.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not measure splice boots, cable rings, and any other hardware for payment and will consider them			
	incidental to this item of work.			
Subsection:				
Revision:				
Tte vision.	measure excavation, backfilling, and restoring disturbed areas for payment and will consider			
	them incidental to this item of work.			
	723.04.08 Steel Strain Pole. Replace the second sentence of the subsection with the following: The Department will not			
Revision:				
	measure excavation, backfilling, and restoring disturbed areas for payment and will consider them incidental to this item of work.			
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	723.04.09 Mast Arm Pole.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure anchor bolts, arms, mounting brackets, and any other necessary hardware for payment			
Subsection:	and will consider them incidental to this item of work.			
Revision:	723.04.10 Signal Pedestal.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure excavation, concrete, reinforcing steel, conduits, fittings, ground rods, ground wire, ground lugs, backfilling, restoring disturbed areas, and other necessary hardware for payment and			
	will consider them incidental to this item of work.			
Subsection:				
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure excavation, backfilling, and restoring disturbed areas for payment and will consider			
Cubaasian	them incidental to this item of work. 723.04.12 Anchor.			
Subsection: Revision:				
Revision:	Replace the second sentence of the subsection with the following: The Department will not measure down-guy, messenger, clamps, guy guard, or insulators, and possible installation in various soil conditions for payment and will consider them incidental to this item of work			
Subsoction	various soil conditions for payment and will consider them incidental to this item of work.			
Revision:	723.04.13 Messenger. Replace the second sentence of the subsection with the following: The Department will not			
17C 4 121011•	Replace the second sentence of the subsection with the following: The Department will not measure strand vises, bolts, washers, and other necessary hardware for payment and will considerable.			
	them incidental to this item of work.			
Subsection:				
Revision:	723.04.14 Install Signal LED. Revise subsection title to 723.04.14 Install Beacon Controller - 2 Circuit.			
Subsection:				
Revision:	Replace the subsection with the following: The Department will measure the quantity as each			
AC VISIOII.	individual unit furnished and installed. The Department will not measure the controller housing,			
	mounting equipment, S5-1 school zone sign, time clock, nema flasher, ground rods, ground			
	wires, ground lugs, metering disconnect hardware, electrical inspection fees, and required			
	building fees involving utility secondary/primary service for payment and will consider them			
	incidental to this item of work.			

Subsection:	723.04.15 Loop Saw Slot and Fill.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not measure sawing, cleaning, filling induction loop saw slot, loop sealant, backer rod, drilling hole			
	for conduit, and grout for payment and will consider them incidental to this item of work.			
Subsection:	723.04.16 Pedestrian Detector.			
Revision:	Replace the subsection with the following: The Department will measure the quantity as each			
	individual unit furnished, installed and connected to pole/pedestal. The Department will not measure installing R10-3e signs, detector housing, and installing mounting hardware for sign for payment and will consider them incidental to this item of work.			
Subsections	723.04.17 Signal.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
Kevision:	measure furnishing and installing LED modules, retroreflective tape, back plates, and any other			
	hardware for payment and will consider them incidental to this item of work.			
Subsection	723.04.18 Signal Controller- Type 170.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
ite vision.	measure the concrete base, mounting the cabinet, connecting the signal and detectors, excavation,			
	backfilling, restoration, any necessary pole mounting hardware, electric service, electrical			
	inspection fees, and building fees involving secondary/primary service for payment and will			
	consider them incidental to this item of work. The Department will also not measure furnishing			
	and connecting the induction of loop amplifiers, pedestrian isolators, load switches, model 400			
	modem card, electrical service conductors, conduits, anchors, meter base, fused cutout, fuses,			
	ground rods, ground wires, and ground lugs for payment and will consider them incidental to this			
	item of work.			
Subsection:	723.04.19 Beacon Controller - 2 Circuit.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure the controller housing, mounting equipment, S5-1 school zone sign, time clock, nema			
	flasher, ground rods, ground wires, ground lugs, metering disconnect hardware, electrical			
	inspection fees, and required building fees involving utility secondary/primary service for			
	payment and will consider them incidental to this item of work.			
	723.04.20 Install Signal Controller - Type 170.			
Revision:	Replace the paragraph with the following: The Department will measure the quantity as each			
	individual unit installed. The Department will not measure the concrete base, mounting the			
	cabinet, connecting the signal and detectors, excavation, backfilling, restoration, any necessary			
	pole mounting hardware, electric service, electrical inspection fees, and required building fees			
	involving utility secondary/primary service for payment and will consider them incidental to this item of work. The Department will also not measure connecting the induction loop amplifiers,			
	pedestrian isolators, load switches, model 400 modem card for payment and will consider them			
	incidental to this item of work. The Department will also not measure furnishing and installing			
	electrical service conductors, conduits, anchors, meter base, fused cutout, fuses, ground rods,			
	ground lugs, and ground wires for payment and will consider them incidental to this item of			
	work.			
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C14'	722 04 21 Install Steel Strain Dela			
Revision:	723.04.21 Install Steel Strain Pole. Replace the second sentence of the subsection with the following: The Department will not measure any necessary clamp assemblies for payment and will consider them incidental to this item of work.			
Subsection: Revision:	723.04.22 Remove Signal Equipment. Replace the paragraph with the following: The Department will measure the quantity by lump sum. The Department will not measure backfilling and the disposal or transportation of equipment and materials associated with any structural or electrical component of the signal system including, but not limited to pole bases, poles, junction boxes, cabinets, and wood poles for payment and will consider them incidental to this item of work.			
Subsection:	723.04.23 Install Span/Pole Mounted Sign.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not measure the hanger or any other hardware necessary to install the sign for payment and will consider them incidental to this item of work.			
Subsection:	723.04.24 Install Pedestrian Head LED.			
Revision:	Insert the following sentence at the end of the paragraph: The Department will not measure the installation of LED modules and any other necessary hardware for payment and will consider them incidental to this item of work.			
Subsection:	723.04.25 Install Signal LED.			
Revision:	Insert the following sentence at the end of the paragraph: The Department will not measure the installation of LED modules, retroreflective tape, back plates, and any other necessary hardware for payment and will consider them incidental to this item of work.			
Subsection:				
Revision:	Replace the subsection with the following: The Department will measure the quantity as each individual unit installed. The Department will not measure radio, modem, cable(s), antenna(s), router, repeater, and any other necessary hardware for payment and will consider them incidental to this item of work.			
Subsection:	723.04.27 Video Camera.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not measure video modules, mounting bracket, truss type arm, power cable, coaxial cable, and any other necessary hardware for payment and will consider them incidental to this item of work.			
Subsection:	723.04.28 Install Pedestrian Detector Audible.			
Revision:	Replace the second sentence with the following: The Department will not measure installing R10-3e sign, detector housing, and installing mounting hardware for payment and will consider them incidental to this item of work.			
Subsection:	723.04.29 Audible Pedestrian Detector.			
Revision:	Replace the second sentence with the following: The Department will not measure furnishing and installing the R10-3e sign, detector housing, and installing mounting hardware for payment and will consider them incidental to this item of work.			

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Subsection:	723.04.30 Bore and Jack Conduit.			
Revision:	Replace the paragraph with the following: The Department will measure the quantity in linear			
	feet. This item shall include all work necessary for boring and installing conduit under an existing roadway.			
	existing roadway. 723 04 31 Install Pedestrian Detector			
Subsection:	723.04.31 Install Pedestrian Detector.			
Revision:	Replace the paragraph with the following: The Department will measure the quantity as each			
	individual unit installed and connected to pole/pedestal. The Department will not measure			
	installing R 10-3e sign, detector housing, and installing mounting hardware for payment and wi			
	consider them incidental to this item of work.			
Subsection:	723.04.32 Install Mast Arm Pole.			
Revision:	Replace the second sentence with the following: The Department will not measure installation of			
	arms, signal mounting brackets, anchor bolts, and any other necessary hardware for payment and			
	will consider them incidental to this item of work.			
	723.04.33 Pedestal Post.			
Revision:	Replace the second sentence with the following: The Department will not measure excavation,			
	backfilling, restoration, furnishing and installing concrete, reinforcing steel, anchor bolts,			
	conduit, fittings, ground rod, ground wire, ground lugs, or any other necessary hardware for			
	payment and will consider them incidental to this item of work.			
Subsection:	723.04.34 Span Mounted Sign.			
Revision:	Revise subsection title to 723.04.34 Span/Pole-Mounted Sign.			
Subsection:	723.04.34 Span/Pole-Mounted Sign.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure the hanger, sign, and any other necessary hardware for payment and will consider them			
	incidental to this item of work. 723 04 35 Remove and Reinstall Coordinating Unit			
Subsection:	723.04.35 Remove and Reinstall Coordinating Unit.			
Revision:	Add the following sentence to the end of the subsection: The Department will not measure			
	removing, storage, reinstalling, and connecting radio, modem, cable(s), antenna(s), router,			
	repeater, and any other necessary hardware for payment and will consider them incidental to this			
	item of work.			
Subsection:				
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure excavation, backfilling, restoration, furnishing and installing reinforcing steel, anchor			
	bolts, conduits, ground rods, ground wires, and ground lugs for payment and will consider them			
C14:	incidental to this item of work.			
Subsection: Revision:				
Revision:	Replace the second sentence of the subsection with the following: The Department will not measure excavation, backfilling, restoration, furnishing and installing concrete, reinforcing steel,			
	conduits, fittings, ground rod, ground wire, ground lugs, and any other necessary hardware for payment and will consider them incidental to this item of work.			
Subsection:				
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure excavation, backfilling, restoration, furnishing and installing concrete, reinforcing steel,			
	conduit, fittings, ground rod, ground wire, ground lugs, and any other necessary hardware for			
	payment and will consider them incidental to this item of work.			

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	723.04.39 Instal			
	Replace the second sentence of the subsection with the following: The Department will not			
	measure any other materials necessary to complete the installation for payment and will consider			
		to this item of work.		
	723.05 PAYME			
	Replace items 04810-04811, 20391NS835, 20392NS835,23052NN and add item number			
	24526ED under <u>Code</u> , <u>Pay Item</u> , and <u>Pay Unit</u> with the following:			
	Code Pay Item Pay Unit			
	04810 Electrical Junction Box Each			
	04811 Electrical Junction Box Type B Each			
	20391NS835	Electrical Junction Box Type A Each		
	20392NS835	Electrical Junction Box Type C Each		
	23052NN	Span/Pole-Mounted Sign Each		
	24526ED Install Beacon Controller 2 Cir Each			
	801.01 REQUIR			
	_	itence in paragraph one with the following: Provide Portland cement <i>or blended</i>		
	hydraulic cement from approved mills listed in the Department's List of Approved Materials.			
	001 01 DEOLUD	AFA AFA JEC		
	801.01 REQUIR	REMENIS		
Number:				
Revision:	Replace first sentence with the following: Type I, II, III, and IV <i>Portland cement</i> conforms to			
C14	ASTM C 150.			
	801.01 REQUIREMENTS			
Number:	Penlage the first centance with the following: Type IP (20). Portland pezzelen cement			
	Replace the first sentence with the following: Type IP (≤ 20), Portland-pozzolan cement,			
	conforms to ASTM C595, and the following additional requirements to Type IP (≤20).			
Subsection:	801.01 REQUIREMENTS			
Number:	3)			
Part:	b)			
	Delete part b)			
Subsection:	801.01 REQUIREMENTS			
Number:	[3)			
Part:	(c)			
	Rename Part c) to Part b) and replace the text with the following: The cement manufacturer shall			
	furnish to the Engineer reports showing the results of tests performed on the fly ash used in the			
	manufacture of the Type IP(≤20) cement shipped to the project.			
Subsection	801.01 REQUIREMENTS			
Number:	3)			
Part:	d)			
Revision:	Rename Part d) to Part c)			

Subsection:	801.01 REQUIREMENTS				
Number:	3)				
Part:	(e)				
Revision:	Rename Part e) to Part d) and replace the text with the following: Use only one brand of Type				
	IP(≤20) cement throughout the project, unless the Engineer approved a change in brand in				
	writing.				
Subsection:	801.01 REQUIREMENTS				
Number:	4)				
Revision:	Replace first sentence with the following: Type IS(≤30), Portland blast furnace slag cement,				
	conforms to ASTM C 595 and the following requirements:				
Subsection:	801.01 REQUIREMENTS				
Number:	4)				
Part:	a)				
Revision:	Replace part a) with the following: Use Grade 100 or 120 blast furnace slag cement conforming				
	to the requirements of ASTM C 989.				
Subsection:	801.01 REQUIREMENTS				
Number:	4)				
Part:	(b)				
Revision:	Delete part b)				
Subsection:	801.01 REQUIREMENTS				
Number:	4)				
Part:	(c)				
Revision:	Rename Part c) to Part b) and replace the text with the following: The cement manufacturer shall				
	furnish to the Engineer reports showing the results of the tests performed on the blast furnace				
	slag cement used in the manufacturing of the Type IS(≤30) shipped to the project.				
Subsection:	801.01 REQUIREMENTS				
Number:	4)				
Part:	(d)				
Revision:	Rename Part d) to Part c)				
Subsection:	801.01 REQUIREMENTS				
Number:	4)				
Part:	(e)				
Revision:	Rename Part e) to Part d) and replace the text with the following: Use only one brand of Type				
	IS(≤30) cement throughout the project, unless the Engineer approves otherwise.				
Subsection:	801.01 REQUIREMENTS				
Number:	5)				
Revision:	Insert part 5) as the following: Type IL(5-15), Portland-limestone cement, conforms to ASTM C				
	595 and the following additional requirements:				
Subsection:					
Number:	5)				
Part:	a)				
Revision:	Insert part a) as the following: The cement manufacturer shall furnish to the Engineer reports				
	showing the results of test performed on the limestone used in the manufacture of the Type IL				
	cement shipped to the project.				

Cbasation.	901 01 DEOLUDEMENTS					
	801.01 REQUIREMENTS					
Number:	[5]					
Part:	b)					
Revision:	Insert part b) as the following: Use only one brand of Type IL cement throughout the project,					
	unless the Engineer approves a brand change in writing.					
	801.01 REQUIREMENTS					
Number:	5)					
Part:	c)					
Revision:	Insert part c) as the following: The Type IL blended cement shall be an intimate and uniform					
	blend produced by intergrinding of the Portland cement and limestone.					
Subsection:	804.01.02 Crushed Sand.					
Revision:	Delete last sentence of the section.					
Subsection:	804.01.06 Slag.					
Revision:	Add subsection and following sentence.					
	Provide blast furnace slag sand where permitted. The Department will allow steel slag sand only					
	in asphalt surface applications.					
Subsection:	804.04 Asphalt Mixtures.					
Revision:	Replace the subsection with the following:					
	Provide natural, crushed, conglomerate, or blast furnace slag sand, with the addition of filler as					
	necessary, to meet gradation requirements. The Department will allow any combination of					
	natural, crushed, conglomerate or blast furnace slag sand when the combination is achieved using					
	cold feeds at the plant. The Engineer may allow other fine aggregates.					
Subsection:	806.03.01 General Requirements.					
Revision:	Replace the second sentence of the paragraph with the following:					
110 (151011)	Additionally, the material must have a minimum solubility of 99.0 percent when tested according					
	to AASHTO T 44 and PG 76-22 must exhibit a minimum recovery of 60 percent, with a J_{NR} (non-					
	recoverable creep compliance) between 0.1 and 0.5, when tested according to AASHTO TP 70.					
	recoverable creep comphance) between 0.1 and 0.3, when tested according to AASH1O 1P /0.					
Cubaatian	806.03.01 General Requirements.					
Table:						
	PG Binder Requirements and Price Adjustment Schedule					
Revision:	Replace the Elastic Recovery, % (3) (AASHTO T301) and all corresponding values in the table					
	with the following:					
	<u>Test</u> <u>Specification</u> <u>100% Pay</u> <u>90% Pay</u> <u>80% Pay</u> <u>70% Pay</u> <u>50% Pay</u> (1)					
	MSCR recovery, % ⁽³⁾ 60 Min. ≥58 56 55 54 <53					
	(AASHTO TP 70)					
Subsection:	806.03.01 General Requirements.					
Table:	PG Binder Requirements and Price Adjustment Schedule					
Superscript:	:(3)					
Revision:	Replace (3) with the following:					
	Perform testing at 64°C.					

	808.07 Polypropylene Waterproofing Membrane.			
Revision:	Replace the paragraph and table with the following: Furnish a layered waterproofing membrane.			
	The layers will consist of an internal puncture resistant woven polypropylene fabric sandwiched			
	between two rubberized mastic layers. The mastic will have a heavy polyethylene membrane			
	attached on the top and the bottom mastic layer will be covered by a protective release film.			
	000 00 A soontones			
	808.09 Acceptance.			
Revision:	Replace the reference to "KMIMS" in the second paragraph with SiteManager.			
Subsection:	811.10.04 Properties of the Coated Bar.			
Part:	B) Flexibility of Coating.			
Revision:	Replace the second sentence of the paragraph with the following: Ensure that the coated bars			
	are capable of being bent to 180 degrees (after rebound) over a mandrel, without any visible			
	evidence of cracking the coating.			
	813.04 Gray Iron Castings.			
Revision:	Replace the reference to "AASHTO M105" with "ASTM A48".			
Subsection:	813.09.02 High Strength Steel Bolts, Nuts, and Washers.			
Number:	A) Bolts.			
Revision:	Delete first paragraph and "Hardness Number" Table. Replace with the following:			
	A) Bolts. Conform to ASTM A325 (AASHTO M164) or ASTM A490 (AASHTO 253) as			
~ -	applicable.			
	814.04.02 Timber Guardrail Posts.			
Revision:	Third paragraph, replace the reference to "AWPA C14" with "AWPA U1, Section B, Paragraph			
	4.1". 814 04 02 Timber Guardrail Posts			
	814.04.02 Timber Guardrail Posts.			
Revision:	Replace the first sentence of the fourth paragraph with the following:			
	Use any of the species of wood for round or square posts covered under AWPA U1. 814.04.02 Timber Guardrail Posts.			
Subsection:				
Revision:	Fourth paragraph, replace the reference to "AWPA C2" with "AWPA U1, Section B, Paragraph			
	4.1".			
	814.04.02 Timber Guardrail Posts.			
Revision:	Delete the second sentence of the fourth paragraph.			
	814.05.02 Composite Plastic.			
Revision:	1) Add the following to the beginning of the first paragraph: Select composite offset blocks			
	conforming to this section and assure blocks are from a manufacturer included on the			
	Department's List of Approved Materials.			
	2) Delete the last paragraph of the subsection.			
	816.07.02 Wood Posts and Braces.			
Revision:	First paragraph, replace the reference to "AWPA C5" with "AWPA U1, Section B, Paragraph			
	4.1".			
Revision:	Delete the second sentence of the first paragraph.			
	818.07 Preservative Treatment.			
Revision:	First paragraph, replace all references to "AWPA C14" with "AWPA U1, Section A".			

Revision: R	33.01.02 Sheeting Signs.			
	contago the good dentago with the following. Provide a thirty			
i led	Replace the second sentence with the following: Provide a thickness of 125 mils if any single edge dimension of the sign exceeds 3 feet.			
	834.14 Lighting Poles.			
Revision: R lo So in the	Replace the first sentence with the following: Lighting pole design shall be in accordance with bading and allowable stress requirements of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims, with the exception of the following: The Cabinet will waive the requirement stated in the first sentence of Section 5.14.6.2 – Reinforced Holes and Cutouts for high mast poles (only). The minimum diameter at the base of the pole shall be 22 inches for high mast poles (only).			
Subsection 83	34.14.03 High Mast Poles.			
	Remove the second and fourth sentence from the first paragraph.			
	834.14.03 High Mast Poles.			
Revision: R	Replace the third paragraph with the following: Provide calculations and drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky.			
Subsection: 83	34.14.03 High Mast Poles.			
Revision: R gr st cc w te th in cc tr:	Replace paragraph six with the following: Provide a pole section that conforms to ASTM A 595 grade A with a minimum yield strength of 55 KSI or ASTM A 572 with a minimum yield trength of 55 KSI. Use tubes that are round or 16 sided with a four inch corner radius, have a constant linear taper of .144 in/ft and contain only one longitudinal seam weld. Circumferential yielded tube butt splices and laminated tubes are not permitted. Provide pole sections that are elescopically slip fit assembled in the field to facilitate inspection of interior surface welds and the protective coating. The minimum length of the telescopic slip splices shall be 1.5 times the inside diameter of the exposed end of the female section. Use longitudinal seam welds as commended in Section 5.15 of the AASHTO 2013 Specifications. The thickness of the transverse base shall not be less than 2 inches. Plates shall be integrally welded to the tubes with telescopic welded joint or a full penetration groove weld with backup bar.			
th pa in st th se m th th	The handhole cover shall be removable from the handhole frame. One the frame side opposite the hinge, provide a mechanism on the handhole cover/frame to place the Department's standard radlock as specified in Section 834.25. The handhole frame shall have two stainless studs installed opposite the hinge to secure the handhole cover to the frame which includes providing tainless steel wing nuts and washers. The handhole cover shall be manufactured from 0.25 inch hick galvanized steel (ASTM A 153) and have a neoprene rubber gasket that is permanently ecured to the handhole frame to insure weather-tight protection. The hinge shall be nanufactured from 7-guage stainless steel to provide adjustability to insure weather-tight fit for the cover. The minimum clear distance between the transverse plate and the bottom opening of the handhole shall not be less than the diameter of the bottom tube of the pole but needs to be at east 15 inches. Provide products that are hot-dip galvanized to the requirements of either ASTM A 123 (fabricated products) or ASTM A 153 (hardware items).			
Subsection: 83	834.16 ANCHOR BOLTS.			
Revision: In	nsert the following sentence at the beginning of the paragraph: The anchor bolt design shall follow the NCHRP Report 494 Section 2.4 and NCHRP 469 Appendix A Specifications.			

a	024.17.01.0			
	834.17.01 Conventional.			
Revision:	Add the following sentence after the second sentence: Provide a waterproof sticker mounted on the bottom of the bousing that is legible from the ground and indicates the wattage of the fixture			
	the bottom of the housing that is legible from the ground and indicates the wattage of the fixture by providing the first two numbers of the wattage			
	by providing the first two numbers of the wattage.			
Subsection:	834.21.01 Waterproof Enclosures.			
Revision:	Replace the last five sentences in the second paragraph with the following sentences:			
	Provide a cabinet door with a louvered air vent, filter-retaining brackets and an easy to clean			
	metal filter. Provide a cabinet door that is keyed with a factory installed standard no. 2 corbi			
	traffic control key. Provide a light fixture with switch and bulb. Use a 120-volt fixture and			
	utilize a L.E.D. bulb (equivalent to 60 watts minimum). Fixture shall be situated at or near the			
	top of the cabinet and illuminate the contents of the cabinet. Provide a 120 VAC GFI duplex			
	receptacle in the enclosure with a separate 20 amp breaker.			
Subsection:	835.07 Traffic Poles.			
Revision:	Replace the first sentence of the first paragraph with the following: Pole diameter and wall			
	thickness shall be calculated in accordance with the AASHTO Standard Specifications for			
	Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with			
	current interims.			
Subsection:	835.07 Traffic Poles.			
Revision:	*Replace the first sentence of the fourth paragraph with the following: Ensure transverse plates			
	have a thickness ≥ 2 inches.			
	*Add the following sentence to the end of the fourth paragraph: The bottom pole diameter shall			
	not be less than 16.25 inches.			
Subsection:				
Revision:	Replace the third sentence of the fifth paragraph with the following: For anchor bolt design, pole			
	forces shall be positioned in such a manner to maximize the force on any individual anchor bo			
	regardless of the actual anchor bolt orientation with the pole.			
Subsection:				
Revision:	Replace the first and second sentence of the sixth paragraph with the following:			
	The pole handhole shall be 25 inches by 6.5 inches. The handhole cover shall be removable			
	from the handhole frame. On the frame side opposite the hinge, provide a mechanism on the			
	handhole cover/frame to place the Department's standard padlock as specified in Section 834.25.			
	The handhole frame shall have two stainless studs installed opposite the hinge to secure the			
	handhole cover to the frame which includes providing stainless steel wing nuts and washers. The			
	handhole cover shall be manufactured from 0.25 inch thick galvanized steel (ASTM 153) and			
	have a neoprene rubber gasket that is permanently secured to the handhole frame to insure			
	weather-tight protection. The hinge shall be manufactured from 7 gauge stainless steel to			
	provide adjustability to insure a weather-tight fit for the cover. The minimum clear distance			
	between the transverse plate and the bottom opening of the handhole shall not be less than the			
	diameter of the bottom tube but needs to be at least 12 inches.			
	diameter of the bottom tube out needs to be at least 12 menes.			

a .	005.05.55.05.5	-		
	835.07 Traffic Poles.			
Revision:	*Replace the first sentence of the last paragraph with the following: Provide calculations and			
	drawings that are stamped by a Professional Engineer licensed in the Commonwealth of			
	Kentucky.			
	*Replace the third sentence of the last paragraph with the following: All tables referenced in			
	835.07 are found in the AASHTO Standard Specifications for Structural Supports for Highway			
		Fraffic Signals, 2013-6th Edit	ion with current interims.	
	835.07.01 Steel Strain Poles.			
Revision:	-	ence of the second paragraph	<u> </u>	
	<u> </u>	all be certified by a Profession	nal Engineer licensed in the Commonwealth	
	of Kentucky.			
	835.07.01 Steel Strain P			
Revision:	_		e following: 7. Fatigue calculations should	
	be shown for all fatigue related connections. Provide the corresponding detail, stress category			
	and example from table	11.9.3.1-1.		
Subsection:	835.07.02 Mast Arm Po	les.		
Revision:	Replace the second sentence of the fourth paragraph with the following: The detailed analysis			
	shall be certified by a Professional Engineer licensed in the Commonwealth of Kentucky.			
Subsection:				
Revision:	Replace number 7) after the fourth paragraph with the following: 7) Fatigue calculations should			
	be shown for all fatigue related connections. Provide the corresponding detail, stress category			
	and example from table 11.9.3.1-1.			
Subsection:	835.07.03 Anchor Bolts.			
Revision:	Add the following to the end of the paragraph: There shall be two steel templates (one can be			
	used for the headed part of the anchor bolt when designed in this manner) provided per pole.			
	Templates shall be contained within a 26.5 inch diameter. All templates shall be fully galvanized			
	(ASTM A 153).			
Subsection:	835.16.05 Optical Units			
Revision:	Replace the 3rd paragraph with the following:			
	The list of certified products can be found on the following website: http://www.intertek.com.			
Subsection:	835.19.01 Pedestrian Detector Body.			
Revision:	Replace the first sentence with the following: Provide a four holed pole mounted aluminum			
	rectangular housing that is compatible with the pedestrian detector.			
Subsection:	843.01.01 Geotextile Fabric.			
Table:	TYPE I FABRIC GEOTEXTILES FOR SLOPE PROTECTION AND CHANNEL LINING			
Revision:	Add the following to the chart:			
	<u>Property</u>	Minimum Value ⁽¹⁾	Test Method	
	CBR Puncture (lbs)	494	ASTM D6241	
	Permittivity (1/s)	0.7	ASTM D4491	
	• ` ′			

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Subsection:	843.01.01 Geotextile Fabric.		
Table:	TYPE II FABRIC GEOTEXTILES FOR UNDERDRAINS		
Revision:	Add the following to the chart:		
	<u>Property</u>	Minimum Value ⁽¹⁾	Test Method
	CBR Puncture (lbs)	210	ASTM D6241
	Permittivity (1/s)	0.5	ASTM D4491
Subsection:	843.01.01 Geotextile Fabric.		
Table:	TYPE III FABRIC GEOTEXTILES FOR SUBGRADE OR EMBANKMENT		
	STABILIZATION		
Revision:	Add the following to the chart:		
	Property	Minimum Value ⁽¹⁾	Test Method
	CBR Puncture (lbs)	370	ASTM D6241
	Permittivity (1/s)	0.05	ASTM D4491
Subsection:	843.01.01 Geotextile Fabric.		
Table:	TYPE IV FABRIC GEOTEXTILES FOR EMBANKMENT DRAINAGE BLANKETS AND		
	PAVEMENT EDGE DRAINS		
Revision:	Add the following to the chart:		
	Property	Minimum Value ⁽¹⁾	Test Method
	CBR Puncture (lbs)	309	ASTM D6241
	Permittivity (1/s)	0.5	ASTM D4491
Subsection:	843.01.01 Geotextile Fabric.		
Table:	TYPE V HIGH STRENGTH GEOTEXTILE FABRIC		
Revision:	Make the following changes to the chart:		
	<u>Property</u>	Minimum Value ⁽¹⁾	Test Method
	CBR Puncture (lbs)	618	ASTM D6241
	Apparent Opening Size	U.S. #40 ⁽³⁾	ASTM D4751
	(3) Maximum average roll value.		