CALL NO. 320

CONTRACT ID. 141039

PERRY COUNTY

FED/STATE PROJECT NUMBER FD04 SPP 097 9006 057-060

DESCRIPTION HAL ROGERS PARKWAY(PW 9006)

WORK TYPE ASPHALT PAVEMENT & ROADWAY REHAB

PRIMARY COMPLETION DATE 6/30/2015

LETTING DATE: July 11,2014

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME July 11,2014. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.

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PART I

SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 10

CONTRACT ID - 141039

FD04 SPP 097 9006 057-060

COUNTY - PERRY

PCN - DE09790061439
FD04 SPP 097 9006 057-060

HAL ROGERS PARKWAY(PW 9006) MILL AND THIN OVERLAY ON HAL ROGERS PKW FROM MP 57.3 TO MP 59.1.ASPHALT PAVEMENT & ROADWAY REHAB SYP NO. 10-02023.00.

GEOGRAPHIC COORDINATES LATITUDE 83:12:00.00 LONGITUDE 37:13:00.00

COMPLETION DATE(S):

COMPLETED BY 06/30/2015 APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

All addenda to this proposal must be applied when calculating bid and certified in the bid packet submitted to the Kentucky Department of Highways. Failure to use the correct and most recent addenda may result in the bid being rejected.

BID SUBMITTAL

Bidder must use the Department's Expedite Bidding Program available on the Internet web site of the Department of Highways, Division of Construction Procurement. (www.transportation.ky.gov/construction-procurement)

The Bidder must download the bid file located on the Bid Express website (www.bidx.com) to prepare a bid packet for submission to the Department. The bidder must submit electronically using Bid Express.

JOINT VENTURE BIDDING

Joint venture bidding is permissible. All companies in the joint venture must be prequalified in one of the work types in the Qualifications for Bidders for the project. The bidders must get a vendor ID for the joint venture from the Division of Construction Procurement and register the joint venture as a bidder on the project. Also, the joint venture must obtain a digital ID from Bid Express to submit a bid. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

UNDERGROUND FACILITY DAMAGE PROTECTION

The contractor is advised that the Underground Facility Damage Protection Act of 1994, became law January 1, 1995. It is the contractor's responsibility to determine the impact of the act regarding this project, and take all steps necessary to be in compliance with the provision of the act.

SPECIAL NOTE FOR PIPE INSPECTION

Contrary to Section 701.03.08 of the 2012 Standard Specifications for Road and Bridge Construction and Kentucky Method 64-114, certification by the Kentucky Transportation Center for prequalified Contractors to perform laser/video inspection is not required on this contract. It will continue to be a requirement for the Contractor performing any laser/video pipe inspection to be prequalified for this specialized item with the Kentucky Transportation Cabinet-Division of Construction Procurement.

SPECIAL NOTE FOR COMPOSITE OFFSET BLOCKS

Contrary to the Standard Drawings (2012 edition) the Cabinet will allow 6" composite offset blocks in lieu of wooden offset blocks, except as specified on proprietary end treatments and crash cushions. The composite blocks shall be selected from the Cabinet's List of Approved Materials.

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

Pursuant to KRS 176.085(1)(b), an agency, department, office, or political subdivision of the Commonwealth of Kentucky shall not award a state contract to a person that is a foreign entity required by KRS 14A.9-010 to obtain a certificate of authority to transact business in the Commonwealth ("certificate") from the Secretary of State under KRS 14A.9-030 unless the person produces the certificate within fourteen (14) days of the bid or proposal opening. If the foreign entity is not required to obtain a certificate as provided in KRS 14A.9-010, the foreign entity should identify the applicable exception. Foreign entity is defined within KRS 14A.1-070.

For all foreign entities required to obtain a certificate of authority to transact business in the Commonwealth, if a copy of the certificate is not received by the contracting agency within the time frame identified above, the foreign entity's solicitation response shall be deemed non-responsive or the awarded contract shall be cancelled.

Businesses can register with the Secretary of State at https://secure.kentucky.gov/sos/ftbr/welcome.aspx .

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

Questions about projects during the advertisement should be submitted in writing to the Division of Construction Procurement. This may be done by fax (502) 564-7299 or email to kytc.projectquestions@ky.gov. The Department will attempt to answer all submitted questions. The Department reserves the right not to answer if the question is not pertinent or does not aid in clarifying the project intent.

The deadline for posting answers will be 3:00 pm Eastern Daylight Time, the day preceding the Letting. Questions may be submitted until this deadline with the understanding that the later a question is submitted, the less likely an answer will be able to be provided.

The questions and answers will be posted for each Letting under the heading "Questions & Answers" on the Construction Procurement website (www.transportation.ky.gov/contract). The answers provided shall be considered part of

this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

HARDWOOD REMOVAL RESTRICTIONS

The US Department of Agriculture has imposed a quarantine in Kentucky and several surrounding states, to prevent the spread of an invasive insect, the emerald ash borer. Hardwood cut in conjunction with the project may not be removed from the state. Chipping or burning on site is the preferred method of disposal.

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

Identification of excess material sites and borrow sites shall be the responsibility of the Contractor. The Contractor shall be responsible for compliance with all applicable state and federal laws and may wish to consult with the US Fish and Wildlife Service to seek protection under Section 10 of the Endangered Species Act for these activities.

ACCESS TO RECORDS

The contractor, as defined in KRS 45A.030 (9) agrees that the contracting agency, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this contract for the purpose of financial audit or program review. Records and other prequalification information confidentially disclosed as part of the bid process shall not be deemed as directly pertinent to the contract and shall be exempt from disclosure as provided in KRS 61.878(1)(c). The contractor also recognizes that any books, documents, papers, records, or other evidence, received during a financial audit or program review shall be subject to the Kentucky Open Records Act, KRS 61.870 to 61.884.

In the event of a dispute between the contractor and the contracting agency, Attorney General, or the Auditor of Public Accounts over documents that are eligible for production and review, the Finance and Administration Cabinet shall review the dispute and issue a determination, in accordance with Secretary's Order 11-004. (See attachment)

10/29/12

Steven L. Beshear
Governor

Commonwealth of Kentucky
Finance and Administration Cabinet
OFFICE OF THE SECRETARY
Room 383, Capitol Annex
702 Capital Avenue
Frankfort, KY 40601-3462
(502) 564-4240
Fax (502) 564-6785

Lori H. Flanery
Secretary

SECRETARY'S ORDER 11-004

FINANCE AND ADMINISTRATION CABINET

Vendor Document Disclosure

WHEREAS, in order to promote accountability and transparency in governmental operations, the Finance and Administration Cabinet believes that a mechanism should be created which would provide for review and assistance to an Executive Branch agency if said agency cannot obtain access to documents that it deems necessary to conduct a review of the records of a private vendor that holds a contract to provide goods and/or services to the Commonwealth; and

WHEREAS, in order to promote accountability and transparency in governmental operations, the Finance and Administration Cabinet believes that a mechanism should be created which would provide for review and assistance to an Executive Branch agency if said agency cannot obtain access to documents that it deems necessary during the course of an audit, investigation or any other inquiry by an Executive Branch agency that involves the review of documents; and

WHEREAS, KRS 42.014 and KRS 12.270 authorizes the Secretary of the Finance and Administration Cabinet to establish the internal organization and assignment of functions which are not established by statute relating to the Finance and Administration Cabinet; further, KRS Chapter 45A.050 and 45A.230 authorizes the Secretary of the Finance and Administration Cabinet to procure, manage and control all supplies and services that are procured by the Commonwealth and to intervene in controversies among vendors and state agencies; and

NOW, THEREFORE, pursuant to the authority vested in me by KRS 42.014, KRS 12.270, KRS 45A.050, and 45A.230, I, Lori H. Flanery, Secretary of the Finance and Administration Cabinet, do hereby order and direct the following:

I. Upon the request of an Executive Branch agency, the Finance and Administration Cabinet ("FAC") shall formally review any dispute arising where the agency has requested documents from a private vendor that holds a state contract and the vendor has refused access to said documents under a claim that said documents are not directly pertinent or relevant to the agency's inquiry upon which the document request was predicated.

II. Upon the request of an Executive Branch agency, the FAC shall formally review any situation where the agency has requested documents that the agency deems necessary to

conduct audits, investigations or any other formal inquiry where a dispute has arisen as to what documents are necessary to conclude the inquiry.

III. Upon receipt of a request by a state agency pursuant to Sections I & II, the FAC shall consider the request from the Executive Branch agency and the position of the vendor or party opposing the disclosure of the documents, applying any and all relevant law to the facts and circumstances of the matter in controversy. After FAC's review is complete, FAC shall issue a Determination which sets out FAC's position as to what documents and/or records, if any, should be disclosed to the requesting agency. The Determination shall be issued within 30 days of receipt of the request from the agency. This time period may be extended for good cause.

IV. If the Determination concludes that documents are being wrongfully withheld by the private vendor or other party opposing the disclosure from the state agency, the private vendor shall immediately comply with the FAC's Determination. Should the private vendor or other party refuse to comply with FAC's Determination, then the FAC, in concert with the requesting agency, shall effectuate any and all options that it possesses to obtain the documents in question, including, but not limited to, jointly initiating an action in the appropriate court for relief.

V. Any provisions of any prior Order that conflicts with the provisions of this Order shall be deemed null and void.

SPECIAL NOTE FOR RECIPROCAL PREFERENCE

Reciprocal preference to be given by public agencies to resident bidders

By reference, KRS 45A.490 to 45A.494 are incorporated herein and in compliance regarding the bidders residency. Bidders who want to claim resident bidder status should complete the Affidavit for Claiming Resident Bidder Status along with their bid in the Expedite Bidding Program. Submittal of the Affidavit should be done along with the bid in Bid Express.

ASPHALT MIXTURE

Unless otherwise noted, the Department estimates the rate of application for all asphalt mixtures to be 110 lbs/sy per inch of depth.

DGA BASE

Unless otherwise noted, the Department estimates the rate of application for DGA Base to be 115 lbs/sy per inch of depth.

DGA BASE FOR SHOULDERS

Unless otherwise noted, the Department estimates the rate of application for DGA Base for Shoulders to be 115 lbs/sy per inch of depth. The Department will not measure necessary grading and/or shaping of existing shoulders prior to placing of DGA Base, but shall be incidental to the Contract unit price per ton for DGA Base.

Accept payment at the Contract unit price per ton as full compensation for all labor, materials, equipment, and incidentals for grading and/or shaping of existing shoulders and furnishing, placing, and compacting the DGA Base.

INCIDENTAL SURFACING

The Department has included in the quantities of asphalt mixtures established in the proposal estimated quantities required for resurfacing or surfacing mailbox turnouts, farm field entrances, residential and commercial entrances, curve widening, ramp gores and tapers, and road and street approaches, as applicable. Pave these areas to the limits as shown on Standard Drawing RPM-110-06 or as directed by the Engineer. In the event signal detectors are present in the intersecting streets or roads, pave the crossroads to the right of way limit or back of the signal detector, whichever is the farthest back of the mainline. Surface or resurface these areas as directed by the Engineer. The Department will not measure placing and compacting for separate payment but shall be incidental to the Contract unit price for the asphalt mixtures.

FUEL AND ASPHALT PAY ADJUSTMENT

The Department has included the Contract items Asphalt Adjustment and Fuel Adjustment for possible future payments at an established Contract unit price of $1.00. The Department will calculate actual adjustment quantities after work is completed. If existing Contract amount is insufficient to pay all items on the contract with the adjustments, the Department will establish additional monies with a change order.

PERRY COUNTY

HAL ROGERS PARKWAY

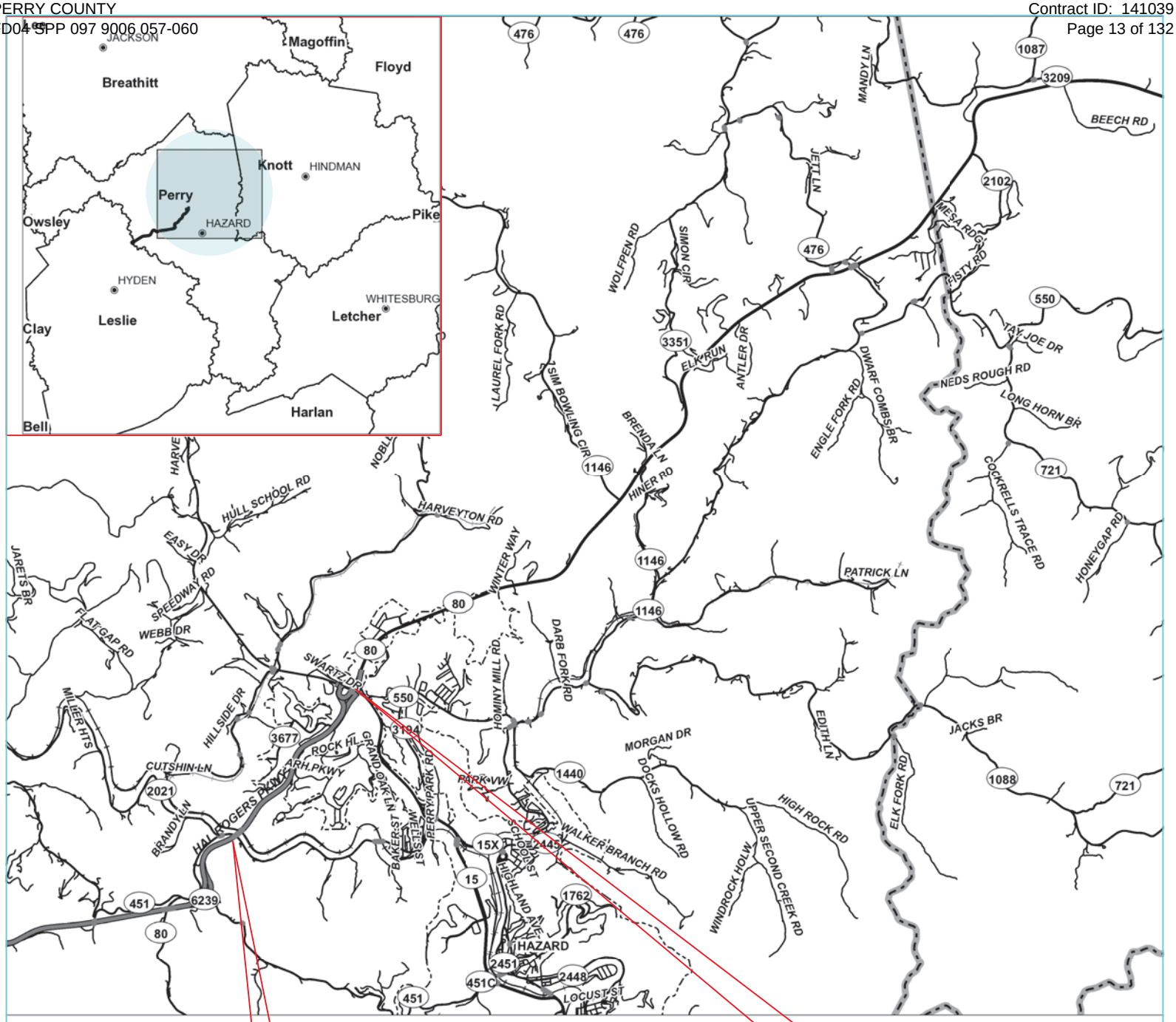
HAZARD TO MANCHESTER

(M.P. 57.3 – M.P. 59.1)

ASPHALT PAVEMENT REHABILITATION

ITEM #: 10-2023

PROJECT #: 097 9006 057-060



PROJECT LOCATION

Right-of-Way Certification Form

Revised 2/22/11

☐ Federal Funded ☑ Original

☑ State Funded ☐ Re-Certification

This form must be completed and submitted to FHWA with the PS&E package for federal-aid funded Interstate, Appalachia, and Major projects. This form shall also be submitted to FHWA for all federal-aid projects that fall under Conditions No. 2 or 3 outlined elsewhere in this form. When Condition No. 2 or 3 apply, KYTC shall resubmit this ROW Certification prior to construction contract Award. For all other federal-aid projects, this form shall be completed and retained in the KYTC project file.

Date: 6/24/2014

Project Name: HAL ROGERS PKWY PAV. REHAB. Letting Date: JULY 11, 2014

Project #: 097 9006 057-060 County: PERRY

Item #: 10-2023 Federal #:

Description of Project: PAVEMENT REHABILITATION ON HAL ROGERS PKWY FROM MP 57.3 TO MP 59.088

Projects that require NO new or additional right-of-way acquisitions and/or relocations

☐ The proposed transportation improvement will be built within the existing rights-of -way and there are no properties to be acquired, individuals, families, and businesses ("relocatees") to be relocated, or improvements to be removed as a part of this project.

Projects that require new or additional right-of-way acquisitions and/or relocations

☐ Per 23 CFR 635.309, the KYTC hereby certify that all relocatees have been relocated to decent, safe, and sanitary housing or that KYTC has made available to relocatees adequate replacement housing in accordance with the provisions of the current FHWA directive(s) covering the administration of the Highway Relocation Assistance Program and that at least one of the following three conditions has been met. (Check those that apply.)

☐ **Condition 1.** All necessary rights-of-way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Fair market value has been paid or deposited with the court.

☐ **Condition 2.** Although all necessary rights-of-way have not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Trial or appeal of some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Fair market value has been paid or deposited with the court for most parcels. Fair market value for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract. (See note 1 below.)

Note 1: The KYTC shall re-submit a right-of-way certification form for this project prior to AWARD of **all** Federal-Aid construction contracts. Award must not to be made until after KYTC has obtained full legal possession and fair market value for all parcels has been paid or deposited with the court and FHWA has concurred in the re-submitted right-of-way certification.

Right-of-Way Certification Form

Revised 2/22/11

☐ **Condition 3.** The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. However, all remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. The KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary rights-of-way will not be fully acquired, and/or some occupants will not be relocated, and/or the fair market value will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction. A full explanation and reason for this request, including identification of each such parcel and dates on which acquisitions, payments, and relocations will be completed, is attached to this certification form for FHWA concurrence. (See note 2.)

Note 2: The KYTC may request authorization on this basis only in unique and unusual circumstances. Proceeding to bid letting shall be the exception and never become the rule. In all cases, the KYTC shall make extraordinary efforts to expedite completion of the acquisition, payment for all affected parcels, and the relocation of all relocatees prior to AWARD of all Federal-Aid construction contracts or force account construction.

Approved: Bruce K. Wagner _____ _____ Right-of-Way Supervisor
Printed Name Signature

Approved: _____ _____ KYTC, Director of ROW &Utilities
Printed Name Signature

Approved: _____ _____ FHWA, ROW Officer (when applicable)
Printed Name Signature

Right-of-Way Certification Form

Revised 2/22/11

Date: 6/24/2014

Project Name: HAL ROGERS PKWY PAV. REHAB
Project #: 097 9006 057 060
Item #: 10-2023
Letting Date: JULY 11, 2014
County: PERRY
Federal #: _____

This project has 0 total number of parcels to be acquired, and 0 total number of individuals or families to be relocated, as well as 0 total number of businesses to be relocated.

_____ Parcels where acquired by a signed fee simple deed and fair market value has been paid

_____ Parcels have been acquired by IOJ through condemnation and fair market value has been deposited with the court

_____ Parcels have not been acquired at this time (*explain below for each parcel*)

_____ Parcels have been acquired or have a "right of entry" but fair market value has not been paid or has not been deposited with the court *(explain below for each parcel)*

_____ Relocatees have not been relocated from parcels ____, ____, ____, ____, ____, ____, and ____ *(explain below for each parcel)*

Parcel #	Name/Station	Explanation for delayed acquisition, delayed relocation, or delayed payment of fair market value	Proposed date of payment or of relocation

There are _____ billboards and/or _____ cemeteries involved on this project.

There are _____ water or monitoring wells on parcels ____, ____, ____, ____, and ____. All have been acquired and are the responsibility of the project contractor to close/cap.

Form Effective Date: April 1, 2006
Last Revised: February 22, 2011

UTILITY NOTES TO BE INCLUDED IN THE PROPOSAL
SPECIAL NOTES FOR UTILITY CLEARANCE
IMPACT ON CONSTRUCTION

PERRY COUNTY
Hal Rogers (M.P. 57.3-M.P. 59.1)
Hal Rogers Parkway Rehabilitation Project
Item # 10-2023
Project # 097 9006 057-060

No utility companies have facilities to be relocated and/or adjusted on subject project.

There is no railroad involvement on the subject project.

COORDINATION WITH UTILITY FACILITY OWNERS

The Contractor will be responsible for contacting all utility facility owners on the subject project to have existing facilities located in the field. The Contractor will coordinate his activities with the utility facility owners to minimize and, where possible, avoid conflicts with utility facilities.

Where conflicts with utility facilities are unavoidable the Contractor will coordinate any necessary relocation work with the facility owner.

PROTECTION OF UTILITIES

The location of utilities provided in the contract document has been furnished by the facility owners and/or by reviewing record drawing and may not be accurate. It will be the roadway contractor's responsibility to locate utilities before excavating by calling the various utility owners and by examining any supplemental information supplied by the Cabinet. If necessary, the roadway contractor shall determine the exact location and elevation of utilities by hand digging to expose utilities before excavating in the area of a utility. The cost for repair and any other associated costs for any damage to utilities caused by the roadway contractor's operations shall be borne by the roadway contractor.

The utility owners information provided are for reference only. The roadway contractor is responsible to make any necessary contacts to verify the information listed below.

Perry County

Water and Sewer
City of Hazard
P.O. Box 420
Hazard, Kentucky 41702
Carlos Combs- (606) 436-3171

Electric
Kentucky Power/AEP
1400 East Main Street,
Hazard, Kentucky 41701
Doug Christian (606) 438-2627 mobile

Glen Combs (606) 436-1321 Office

Telephone
Windstream
101 Winterberry Drive
Hazard, Kentucky 41701
Gary Lady (606) 439-1082

Television
TV Service,Inc.
P.O. Box 1410
Hindman, KY 41822
Kenny Salmons
Jamie Thomas
(606) 785-3450

Gas
City of Hazard
P.O. Box 420
Hazard, Kentucky 41702
Carlos Combs (606) 436-3171

BEFORE-U-DIG (BUD)

The Contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The Contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The Contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the Contractor to contact the County Court Clerk to determine what utility companies have facilities in the project area.

PAVING AREA

ITEM					PROJECT TOTAL
	SQUARE YARD				
1.5" CL3 ASPH SURF 0.38B PG 76-22					56,331.00
1.5" CL2 ASPH SURF 0.38D PG 64-22					19,276.00
3.25" CL3 ASPH BASE 1.0 PG 76-22 (2)					1,125.00
3.25" CL3 ASPH BASE 1.0 PG 64-22 (2)					1,125.00
ASPHALT SEAL COAT (1)					11,698.00
ASPHALT SEAL AGGREGATE (1)					11,698.00
1.5" DGA BASE (3)					4,344.00
(1) TWO COURSES					
(2) INCLUDED 1125 SQ YD FOR EDGE DRAINS					
(3) FOR GUARDRAIL AND SHOULDERING					

PAVING SUMMARY

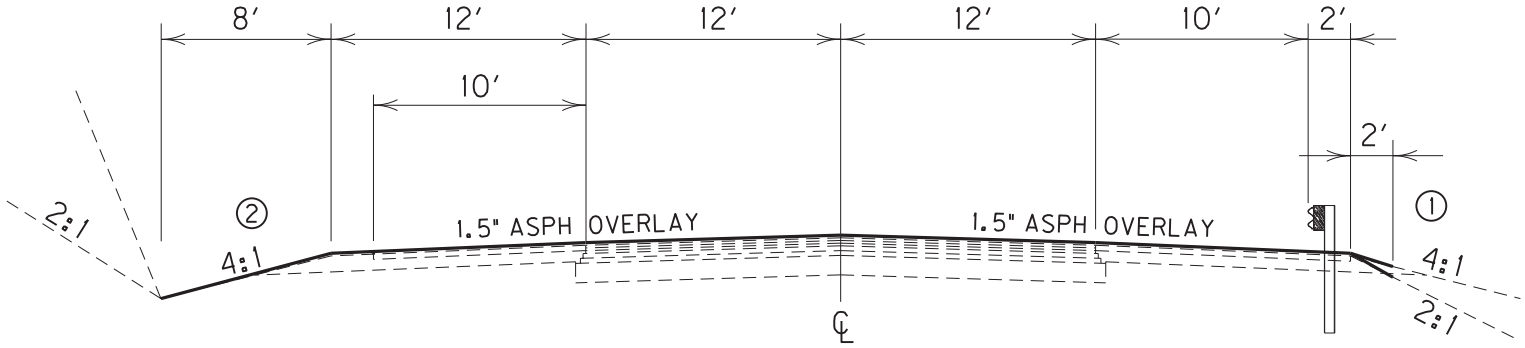
ITEM CODE		UNIT					PROJECT TOTAL
1	DGA BASE	TON					375
78	CRUSHED AGGREGATE SIZE NO. 2 (6)	TON					10
100	ASPHALT SEAL AGGREGATE (4)	TON					117
103	ASPHALT SEAL COAT (5)	TON					14
190	LEVEL & WEDGING PG 64-22 (7)	TON					1,000
214	CL3 ASPH BASE 1.0D PG64-22	TON					201
216	CL3 ASPH BASE 1.0D PG76-22	TON					201
301	CL2 ASPH SURF 0.38D PG64-22	TON					1,590
387	CL3 ASPH SURF 0.38B PG76-22	TON					4,647
2677	ASPH PAVE MILLING & TEXTURING (2)	TON					624
(1) ALL ASPHALT MIXTURES ARE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH							
(2) ESTIMATED 10% OF ASPHALT PAVEMENT, AT LOCATIONS DIRECTED BY THE ENGINEER							
(3) ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH							
(4) ESTIMATED AT 20 LBS/SQ YD.							
(5) ESTIMATED AT 2.4 LBS/SQ. YD.							
(6) TO BE USED AT PERF. PIPE HEADWALL							
(7) TO BE USED AT LOCATIONS AS DIRECTED BY THE ENGINEER							

GENERAL SUMMARY

ITEM CODE	ITEM	UNIT					PROJECT TOTAL
462	CULVERT PIPE-18 IN	L.F.					136
464	CULVERT PIPE-24 IN	L.F.					117
466	CULVERT PIPE-30 IN	L.F.					5
468	CULVERT PIPE-36 IN (1)	L.F.					55
1001	PERFORATED PIPE - 6 INCH	L.F.					3,369
1011	NON-PERFORATED PIPE - 6 INCH	L.F.					65
1021	PERF PIPE HEADWALL TY 1 - 6IN	EACH					2
1029	PERF PIPE HEADWALL TY 3 - 6IN	EACH					2
1310	REMOVE PIPE	L.F.					146
1440	SLOPED BOX INLET-OUTLET TYPE 1	EACH					1
1494	DROP BOX INLET TYPE 2 MOD	EACH					1
1691	FLUME TYPE 2	EACH					9
1982	DELINEATOR FOR GUARDRAIL-WHITE	EACH					85
2019	JPC PAVEMENT - 4 IN	SQ. YD.					5
2157	PAVED DITCH TYPE 1	SQ. YD.					6
2237	DITCHING	L.F.					11,868
2381	REMOVE GUARDRAIL	L.F.					7,837.50
21802EN	G/R STEEL BEAM -S FACE (7 FT POST)	L.F.					8,437.50
2360	GUARDRAIL TERMINAL SECTION TYPE 1	EACH					5
2367	GUARDRAIL END TREATMENT TYPE 1	EACH					13
2483	CHANNEL LINING CLASS II	TON					110
2484	CHANNEL LINING CLASS III	TON					294
2568	MOBILIZATION	L.S.					1
2569	DEMOBILIZATION	L.S.					1
2585	EDGE KEY	L.F.					158
2650	MAINTAIN & CONTROL TRAFFIC	L.S.					1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH					2
2676	MOBILIZATION FOR MILL & TEXT.	L.S.					1
2696	SHOULDER RUMBLE STRIPS-SAWED	L.F.					19,875
2704	SILT TRAP TYPE B	EACH					10
2705	SILT TRAP TYPE C	EACH					10
2707	CLEAN SILT TRAP TYPE B	EACH					20
2708	CLEAN SILT TRAP TYPE C	EACH					20
2714	SHOULDERING	L.F.					13,572
2726	STAKING	L.S.					1
2775	ARROW PANEL	EACH					2
4793	CONDUIT 1 1/4"	L.F.					200
4811	ELECTRICAL JUNCTION BOX TYPE B	EACH					1

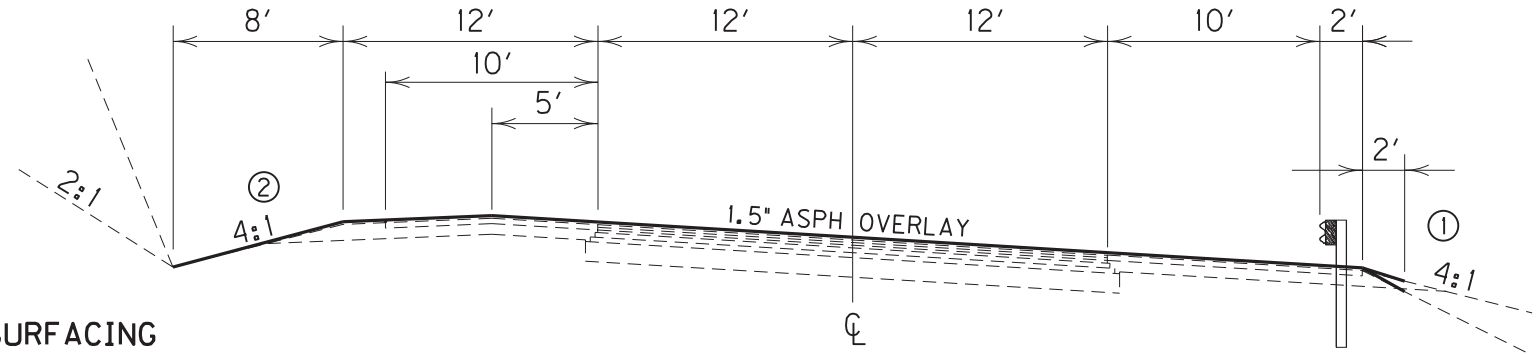
ITEM CODE	ITEM	UNIT					PROJECT TOTAL
4830	LOOP WIRE	L.F.					1,500
4850	CABLE-NO. 14/1 PAIR	L.F.					150
4895	LOOP SAW SLOT AND FILL	L.F.					510
5950	EROSION CONTROL BLANKET	SQ. YD.					13,187
6406	SBM ALUM SHEET SIGNS 0.080 IN	SQ. FT.					170
6407	SBM ALUM SHEET SIGNS 0.125 IN						610
6410	STEEL POST TYPE 1	L.F.					1,215
6511	PAVE STRIPING-TEMP PAINT-6 IN	L.F.					44,359
6515	PAVE STRIPING-PERM PAINT-6 IN	L.F.					44,359
6567	PAVE MARKING-THERMO STOP BAR 12 IN	L.F.					389
6573	PAVE MARKING-THERMO STR ARROW	EACH					9
6574	PAVE MARKING-THERMO CURV ARROW	EACH					26
6600	REMOVE PAVEMENT MARKER TYPE V	EACH					413
8100	CONCRETE CLASS A	CU. YD.					10
8150	STEEL REINFORCEMENT	LB					1,292
10020NS	FUEL ADJUSTMENT	DOLLAR					9,722
10030NS	ASPHALT ADJUSTMENT	DOLLAR					17,131
22883EN	CONCRETE WEDGE CURB	SQ. YD.					2,633
23821EC	CENTERLINE RUMBLE STRIPS	L.F.					5,200
24489EC	INLAID PAVEMENT MARKER	EACH					826
24631EC	BARCODE LABEL	EACH					65
23143ED	KPDES PERMIT AND TEMP E.C.	L.S.					1
20071EC	JOINT ADHESIVE	L.F.					19,008
(1) INCLUDING 20 FEET OF CORRUGATED METAL PIPES AT THE ENT TO FRONTAGE RD (PIPE EXTENSION) STATION 3199+68							
(2) AT LOCATIONS AS DIRECTED BY THE ENGINEER							

TYPICAL SECTIONS
HAL ROGERS PARKWAY (KY 9006)
TWO LANE SECTION



NORMAL SECTION

① SEE TYPICAL SECTIONS 5 OF 6 FOR DETAILS
② SEE TYPICAL SECTIONS 6 OF 6 FOR DETAILS



SUPERELEVATED SECTION

RESURFACING
DRIVING LANES
OVERLAY EXISTING

CLASS 3 ASPHALT SURFACE 0.38B PG76-22	1.5 INCH DEPTH
LEVEL & WEDGING PG64-22	AS NEEDED

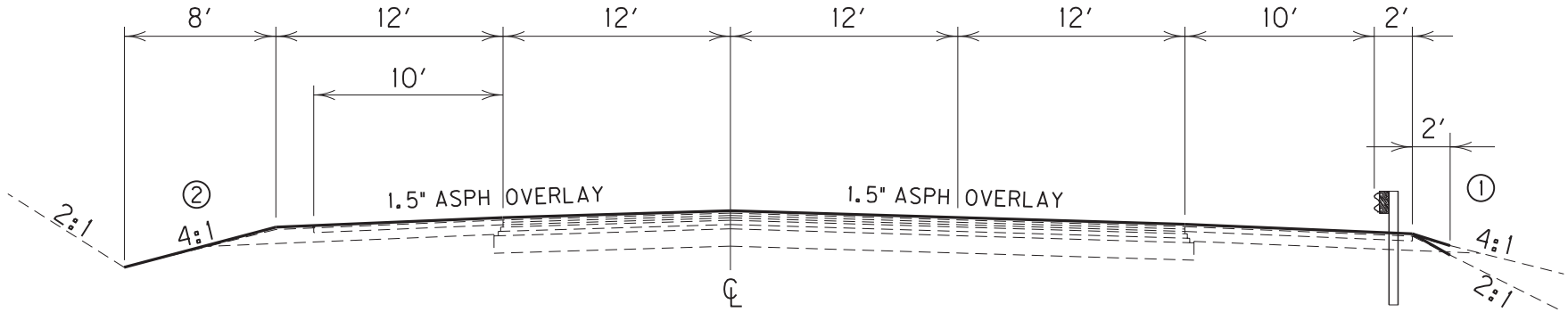
SHOULDERS
OVERLAY EXISTING

CLASS 2 ASPHALT SURFACE 0.38D PG64-22	1.5 INCH DEPTH
LEVEL & WEDGING PG64-22	AS NEEDED
ASPHALT SEAL COAT (2 COURSES)	2.4 LBS/SQ YD
ASPHALT SEAL AGGREGATE (2 COURSES)	20 LBS/SQ YD
DGA BASE (FOR UNDER G.R. AND WEDGING)	1.5 INCH DEPTH

TYPICAL SECTIONS 1 OF 6

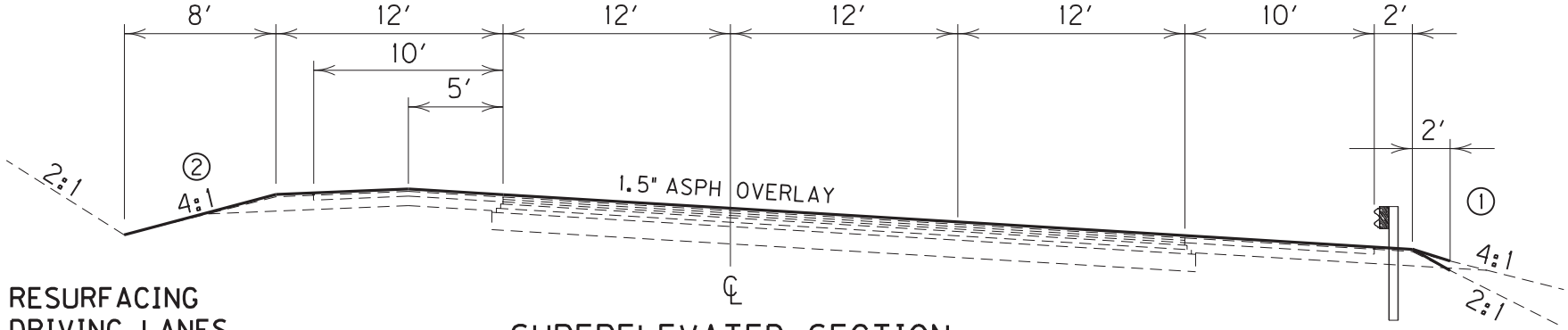
PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

TYPICAL SECTIONS
HAL ROGERS PARKWAY (KY 9006)
THREE LANE SECTION



NORMAL SECTION

① SEE TYPICAL SECTIONS 5 OF 6 FOR DETAILS
② SEE TYPICAL SECTIONS 6 OF 6 FOR DETAILS



SUPERELEVATED SECTION

RESURFACING
DRIVING LANES
OVERLAY EXISTING

CLASS 3 ASPHALT SURFACE 0.38B PG76-22	1.5 INCH DEPTH
LEVEL & WEDGING PG64-22	AS NEEDED

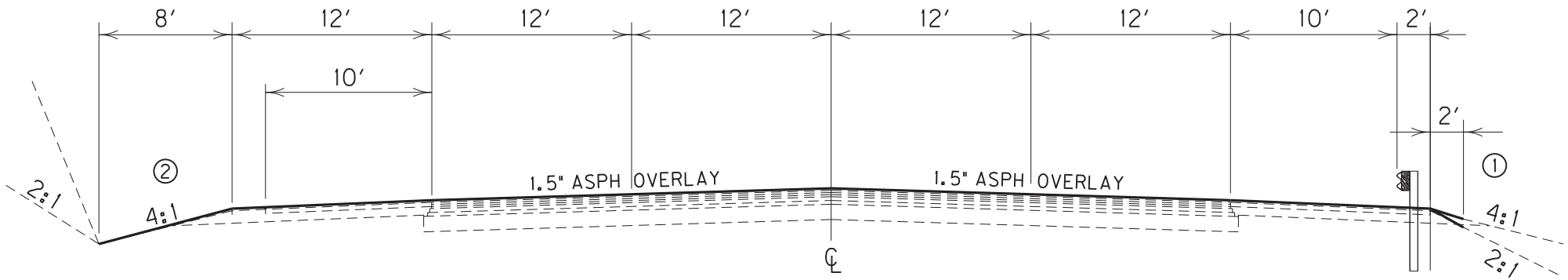
SHOULDERS
OVERLAY EXISTING

CLASS 2 ASPHALT SURFACE 0.38D PG64-22	1.5 INCH DEPTH
LEVEL & WEDGING PG64-22	AS NEEDED
ASPHALT SEAL COAT (2 COURSES)	2.4 LBS/SQ YD
ASPHALT SEAL AGGREGATE (2 COURSES)	20 LBS/SQ YD
DGA BASE (FOR UNDER G.R. AND WEDGING)	AS NEEDED

TYPICAL SECTIONS 2 OF 6

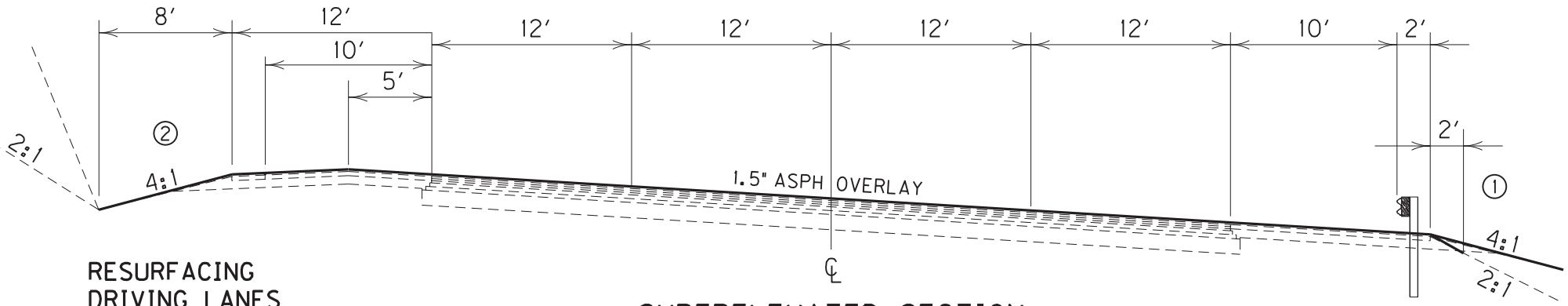
PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

TYPICAL SECTIONS
HAL ROGERS PARKWAY (KY 9006)
FOUR LANE SECTION



NORMAL SECTION

① SEE TYPICAL SECTIONS 5 OF 6 FOR DETAILS
② SEE TYPICAL SECTIONS 6 OF 6 FOR DETAILS



SUPERELEVATED SECTION

RESURFACING
DRIVING LANES
OVERLAY EXISTING

CLASS 3 ASPHALT SURFACE 0.38B PG76-22	1.5 INCH DEPTH
LEVEL & WEDGING PG64-22	AS NEEDED

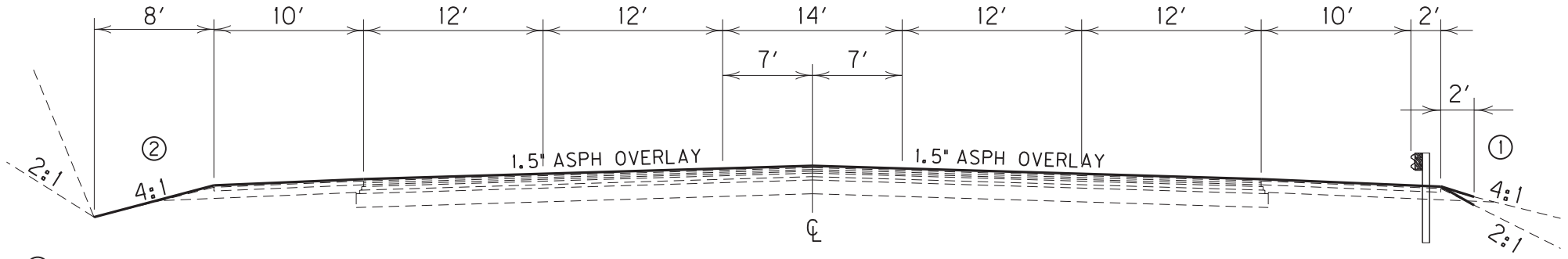
SHOULDERS
OVERLAY EXISTING

CLASS 2 ASPHALT SURFACE 0.38D PG64-22	1.5 INCH DEPTH
LEVEL & WEDGING PG64-22	AS NEEDED
ASPHALT SEAL COAT (2 COURSES)	2.4 LBS/SQ YD
ASPHALT SEAL AGGREGATE (2 COURSES)	20 LBS/SQ YD
DGA BASE (FOR UNDER G.R. AND WEDGING)	AS NEEDED

TYPICAL SECTIONS 3 OF 6

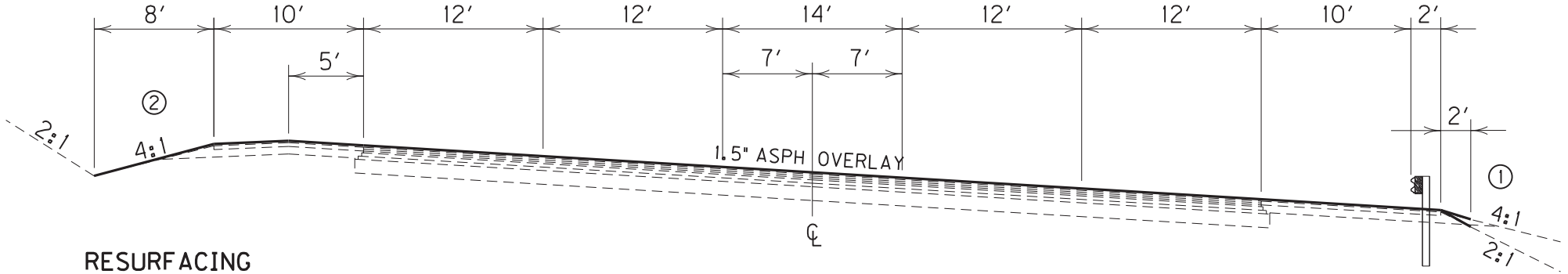
PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

TYPICAL SECTIONS
HAL ROGERS PARKWAY (KY 9006)
FOUR LANE SECTION WITH CENTER TURN LANE



① SEE TYPICAL SECTIONS 5 OF 6 FOR DETAILS
② SEE TYPICAL SECTIONS 6 OF 6 FOR DETAILS

NORMAL SECTION



SUPERELEVATED SECTION

RESURFACING
DRIVING LANES
OVERLAY EXISTING

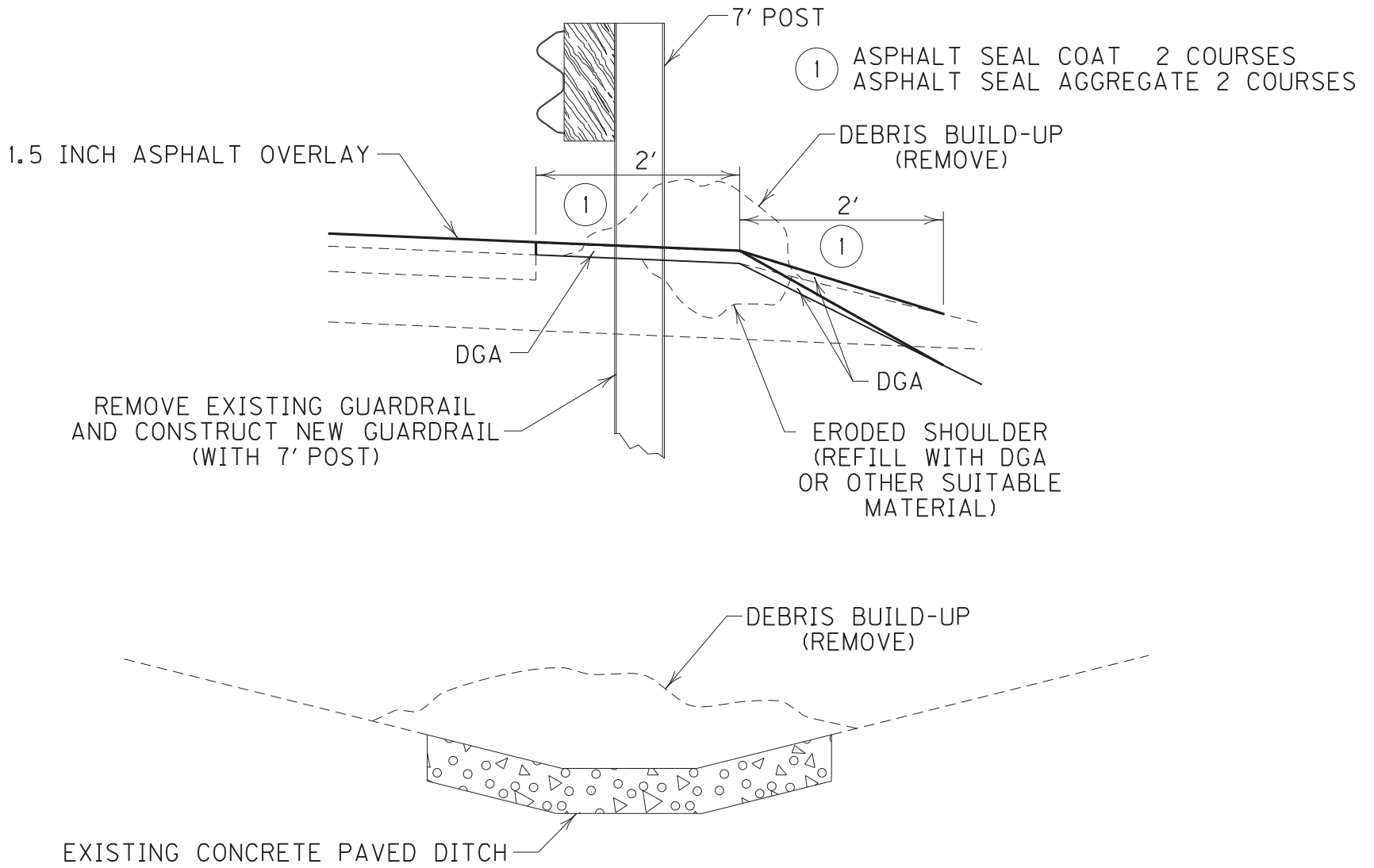
CLASS 3 ASPHALT SURFACE 0.38B PG76-22	1.5 INCH DEPTH
LEVEL & WEDGING PG64-22	AS NEEDED

SHOULDERS
OVERLAY EXISTING

CLASS 2 ASPHALT SURFACE 0.38D PG64-22	1.5 INCH DEPTH
LEVEL & WEDGING PG64-22	AS NEEDED
ASPHALT SEAL COAT (2 COURSES)	2.4 LBS/SQ YD
ASPHALT SEAL AGGREGATE (2 COURSES)	20 LBS/SQ YD
DGA BASE (FOR UNDER G.R. AND WEDGING)	AS NEEDED

TYPICAL SECTIONS 4 OF 6

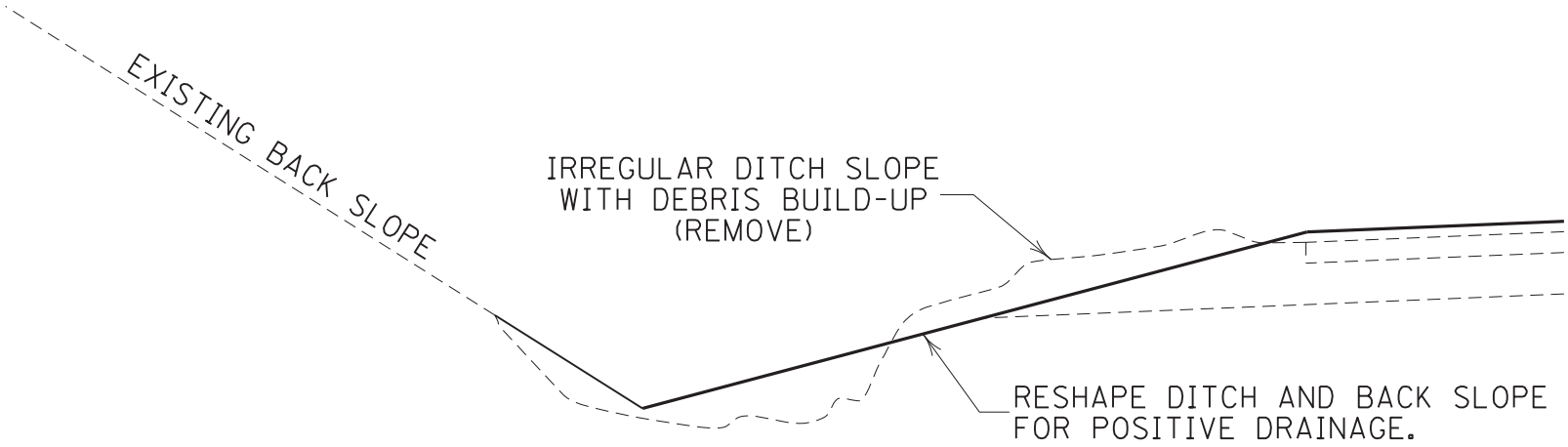
PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

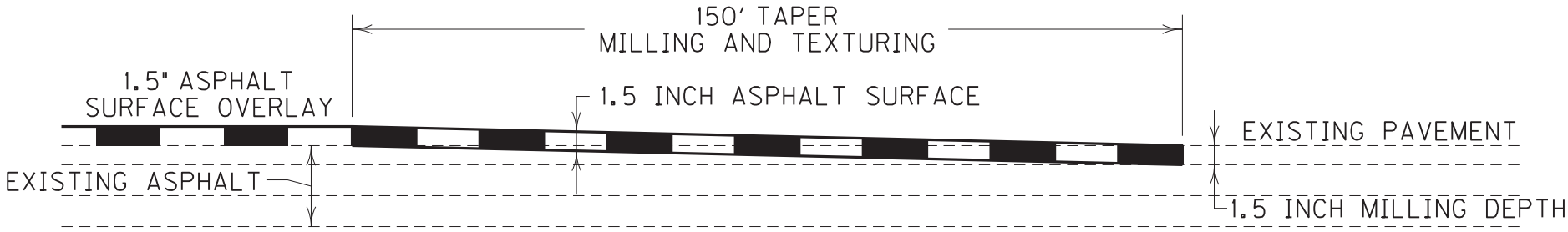


- CAUTION -
DO NOT DAMAGE EXISTING
CONCRETE PAVED DITCH.

TYPICAL SECTIONS 5 OF 6

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

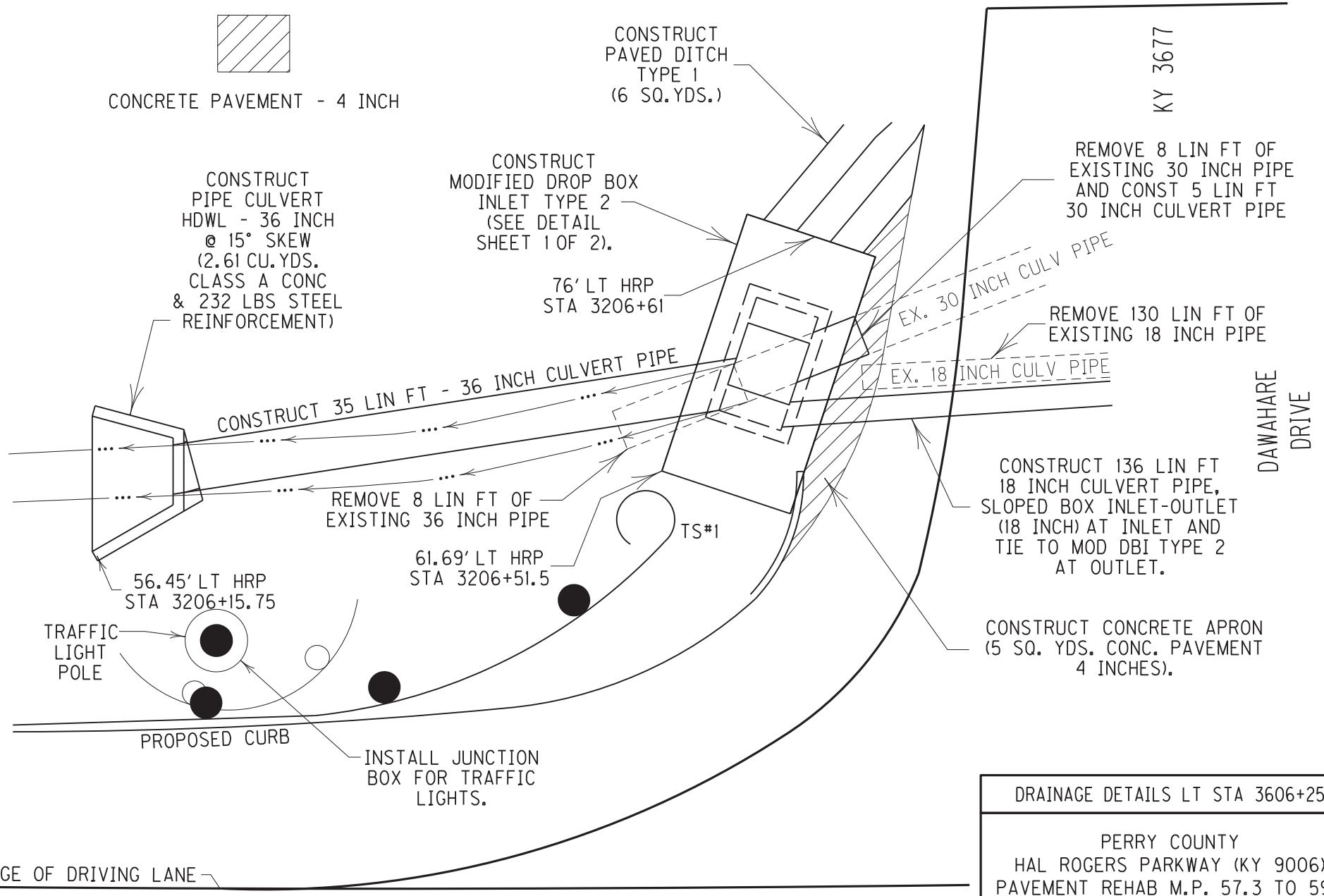




EDGE KEY DETAIL

TYPICAL SECTIONS 6 OF 6

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

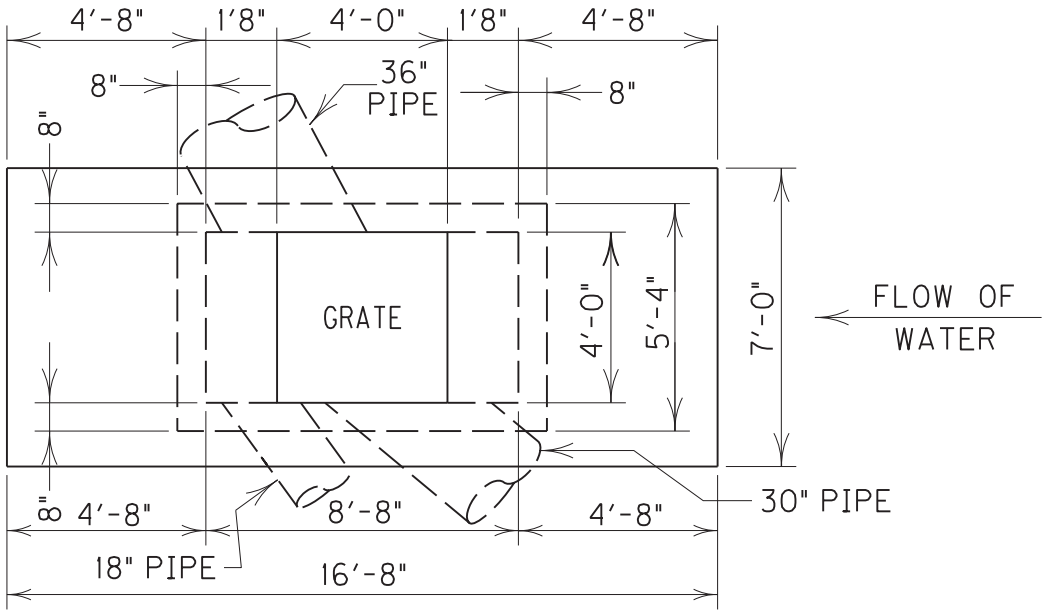


DRAINAGE DETAILS LT STA 3606+25

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

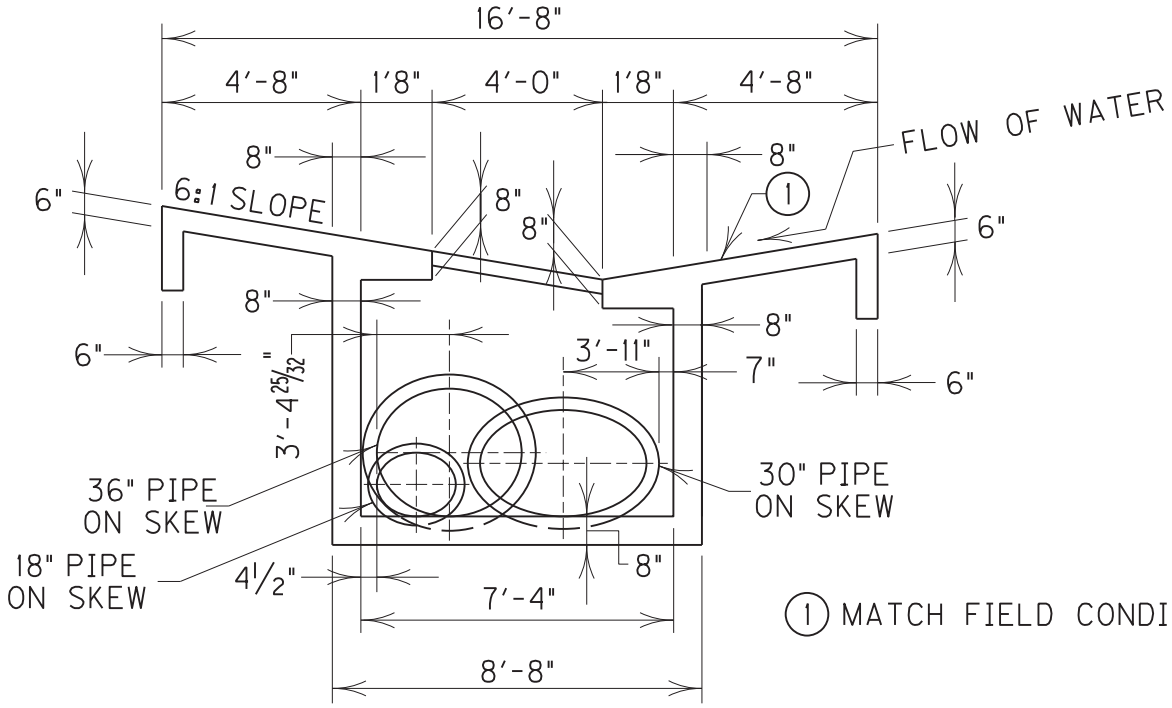
DETAIL SHEET 2 OF 2

PLAN VIEW REVISIONS



PROPOSED PIPES
18 INCH INLET PIPE
30 INCH INLET PIPE
36 INCH OUTLET PIPE

SECTION B-B REVISIONS



(1) MATCH FIELD CONDITIONS

TE BE USED WITH STANDARD DRAWING NUMBER RBB-002-11 WITH REVISIONS SHOWN FOR PLAN VIEW AND SECTION B-B. ALSO SHOWN ARE LOCATIONS OF THE PROPOSED PIPES. ALL EXACT LOCATIONS AND ELEVATIONS ARE TO BE DETEMINED IN THE FIELD DURING CONSTRUCTION.

MODIFIED DROP BOX INLET TYPE 2 DETAILS

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

REMOVE GUARDRAIL

LT STA TO LT STA	LIN FEET
3134+00 - 3144+25	1100

*CONST STEEL W BEAM GUARDRAIL-S FACE

LT STA TO LT STA	LIN FEET
3134+00 - 3144+25	1100

*TIE TO EX BRIDGE END CONNECTOR AND TO EXIST. G.R. AT STA 3244+25

CONSTRUCT FLUME INLET TYPE 2 WITH CHANNEL LINING CLASS III

LEFT STATION	EACH	TONS
3136+50	1	48
3139+00	1	49
3141+50	1	40

CONSTRUCT EDGE KEY

STATION	LIN. FT.
3134+00	32

CONSTRUCT CONCRETE CURB

LT STA TO LT STA	LIN FEET
3134+00 - 3144+25	982 (1)

(1) TIE TO EXISTING DROP BOX INLET AT STA 3134+42 AND WRAP AROUND ENTRANCE AT STA 3144+25.

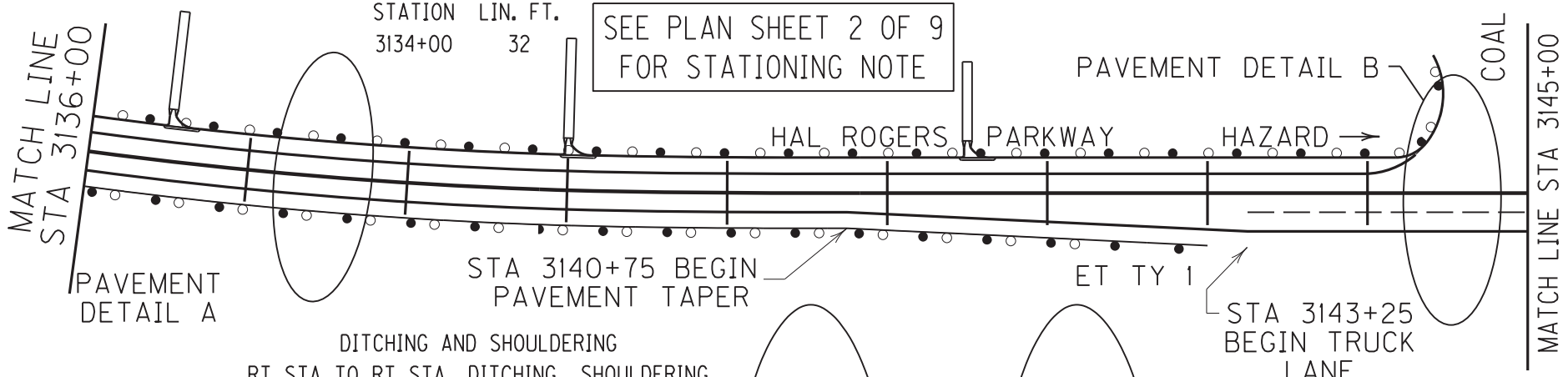
DITCHING AND SHOULDERING

LT STA TO LT STA	DITCHING	SHOULDERING
3134+00 - 3144+25	825 L.F.	825 L.F.

3140+00

COAL TIPPLE ENT

SEE PLAN SHEET 2 OF 9 FOR STATIONING NOTE

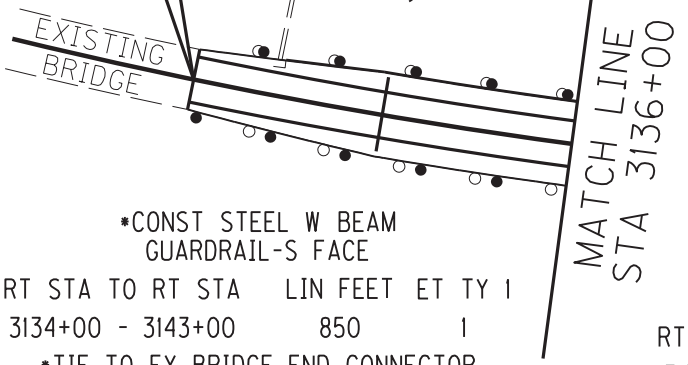


DITCHING AND SHOULDERING

RT STA TO RT STA	DITCHING	SHOULDERING
3134+00 - 3145+00		1105

STA 3134+00 BEGIN PROJECT

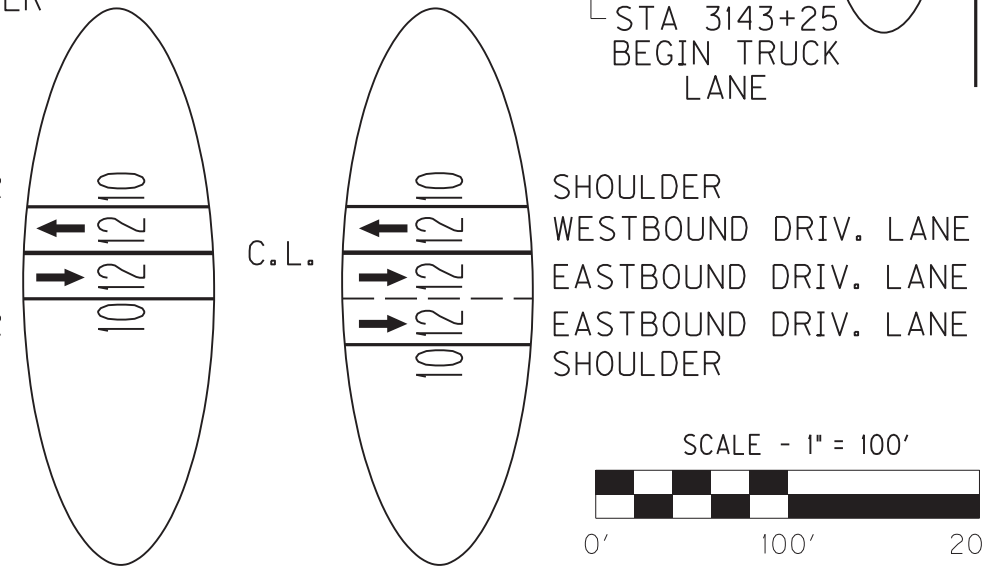
3135+00



*CONST STEEL W BEAM GUARDRAIL-S FACE

RT STA TO RT STA	LIN FEET	ET TY 1
3134+00 - 3143+00	850	1

*TIE TO EX BRIDGE END CONNECTOR



PAVEMENT DETAIL A

PAVEMENT DETAIL B

SCALE - 1" = 100'

0' 100' 200'

REMOVE GUARDRAIL

RT STA TO RT STA	LIN FEET
3134+00 - 3142+23	825

PLAN DETAIL STA 3134+00 - 3145+00

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

DITCHING AND SHOULDERING

LT STA TO LT STA	DITCHING	SHOULDERING
3134+75 - 3155+00	947 L.F.	947 L.F.

- NOTE -
STATIONING IS FOR REFERENCE ONLY.
ACTUAL LOCATIONS OF CONSTRUCTION
ITEMS IS TO BE DETEMINED IN THE FIELD
OR AS DIRECTED BY THE ENGINEER.

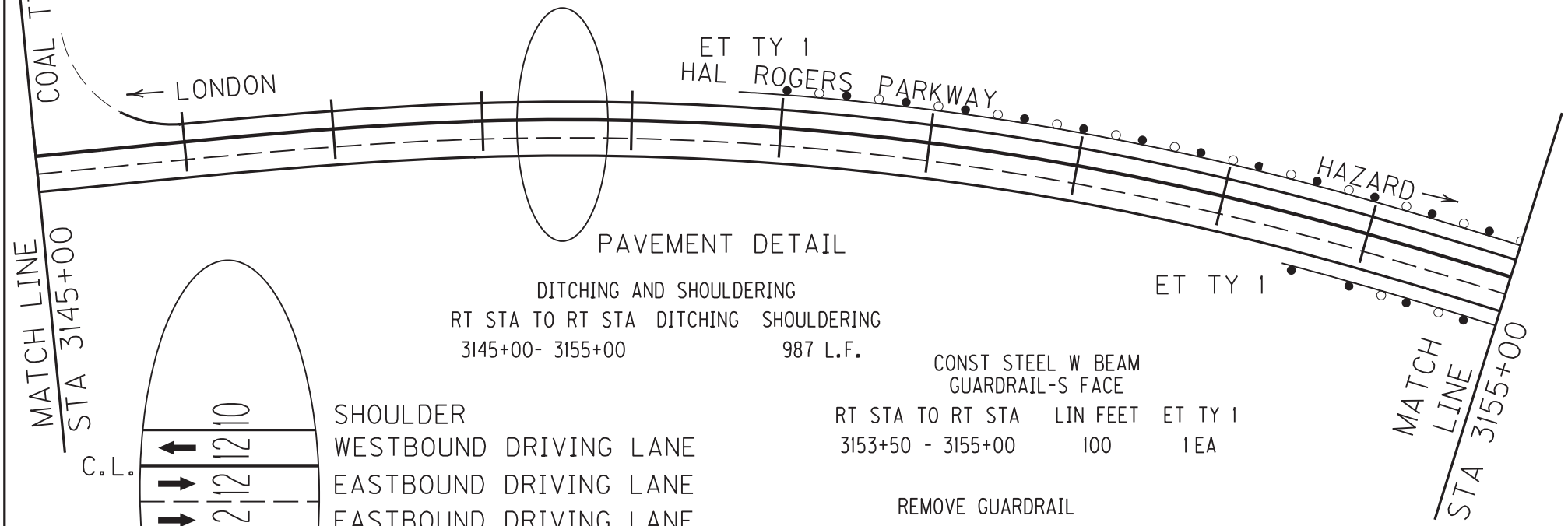
3150+00

CONST STEEL W BEAM
GUARDRAIL-S FACE

LT STA TO LT STA	LIN FEET	ET TY 1
3149+71 - 3155+00	487.5	1 EA

REMOVE GUARDRAIL

LT STA TO LT STA	LIN FEET
3150+20 - 3155+00	487.5



PAVEMENT DETAIL

DITCHING AND SHOULDERING

RT STA TO RT STA	DITCHING	SHOULDERING
3145+00- 3155+00		987 L.F.

CONST STEEL W BEAM
GUARDRAIL-S FACE

RT STA TO RT STA	LIN FEET	ET TY 1
3153+50 - 3155+00	100	1 EA

REMOVE GUARDRAIL

RT STA TO RT STA	LIN FEET
3154+00 - 3155+00	100

PAVEMENT DETAIL

SCALE - 1" = 100'

PLAN DETAIL STA 3145+00 - 3155+00

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

DITCHING AND SHOULDERING

LT STA TO LT STA	DITCHING	SHOULDERING
3155+00 - 3165+00	997 L.F.	997 L.F.

CONST STEEL W BEAM GUARDRAIL-S FACE

LT STA TO LT STA	LIN FEET	ET TY 1
3155+00 - 3158+00	250	1 EA

REMOVE GUARDRAIL

LT STA TO LT STA	LIN FEET
3155+00 - 3157+50	250

3160+00

CONST STEEL W BEAM GUARDRAIL-S FACE

LT STA TO LT STA	LIN FEET	ET TY 1
3163+50 - 3165+00	100	1 EA

REMOVE GUARDRAIL

LT STA TO LT STA	LIN FEET
3164+00 - 3165+00	100

MATCH LINE STA 3155+00

MATCH LINE STA 3165+00

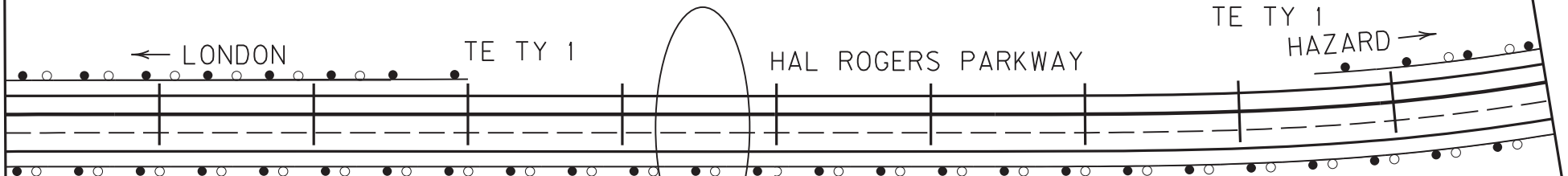
← LONDON

TE TY 1

HAL ROGERS PARKWAY

TE TY 1

HAZARD →



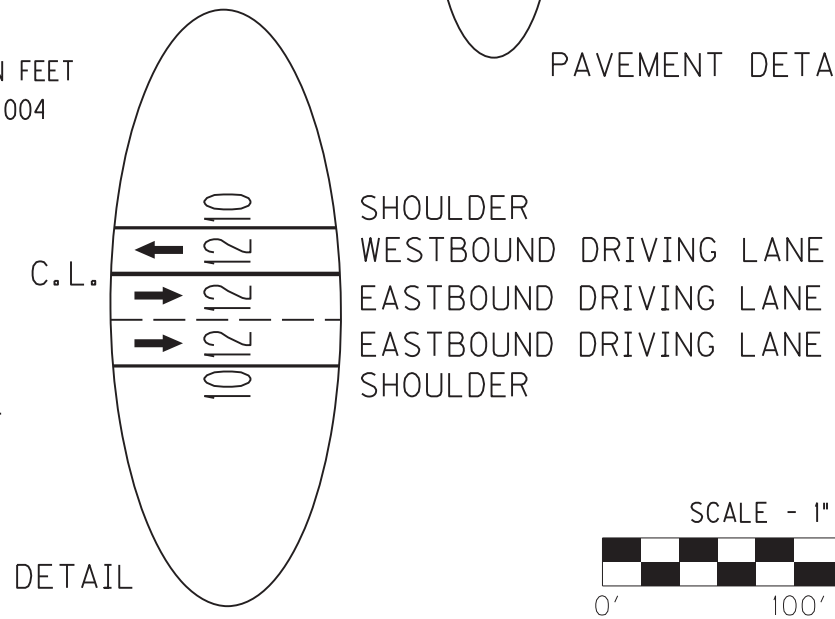
PAVEMENT DETAIL

REMOVE GUARDRAIL

RT STA TO RT STA	LIN FEET
3155+00 - 3165+00	1004

DITCHING AND SHOULDERING

RT STA TO RT STA	DITCHING	SHOULDERING
3155+00 - 3165+00		1005 L.F.



CONST STEEL W BEAM GUARDRAIL-S FACE

RT STA TO RT STA	LIN FEET
3155+00 - 3165+00	1004

PAVEMENT DETAIL

SCALE - 1" = 100'

PLAN DETAIL STA 3155+00 - 3165+00

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

DITCHING AND SHOULDERING

LT STA TO LT STA	DITCHING	SHOULDERING
3165+00 - 3173+60	883 L.F.	883 L.F.

REMOVE GUARDRAIL

LT STA TO LT STA	LIN FEET
3165+00 - 3173+65	887.5

3170+00

CONSTRUCT CONCRETE CURB

LT STA TO LT STA	LIN FEET
3165+68 - 3173+65	771 (1)

(1) WRAP AROUND ENTRANCE AND TIE TO EXIST G.R. AT STA 3173+65.

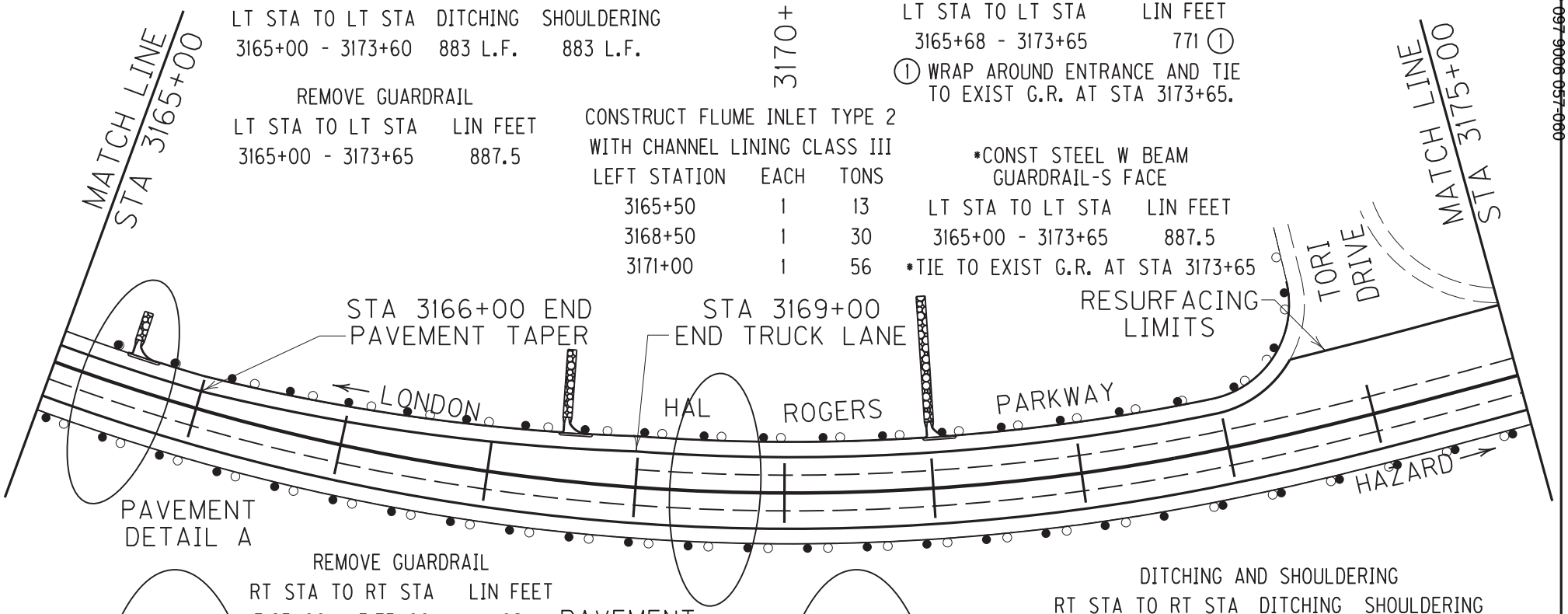
CONSTRUCT FLUME INLET TYPE 2 WITH CHANNEL LINING CLASS III

LEFT STATION	EACH	TONS
3165+50	1	13
3168+50	1	30
3171+00	1	56

*CONST STEEL W BEAM GUARDRAIL-S FACE

LT STA TO LT STA	LIN FEET
3165+00 - 3173+65	887.5

*TIE TO EXIST G.R. AT STA 3173+65



PAVEMENT DETAIL A

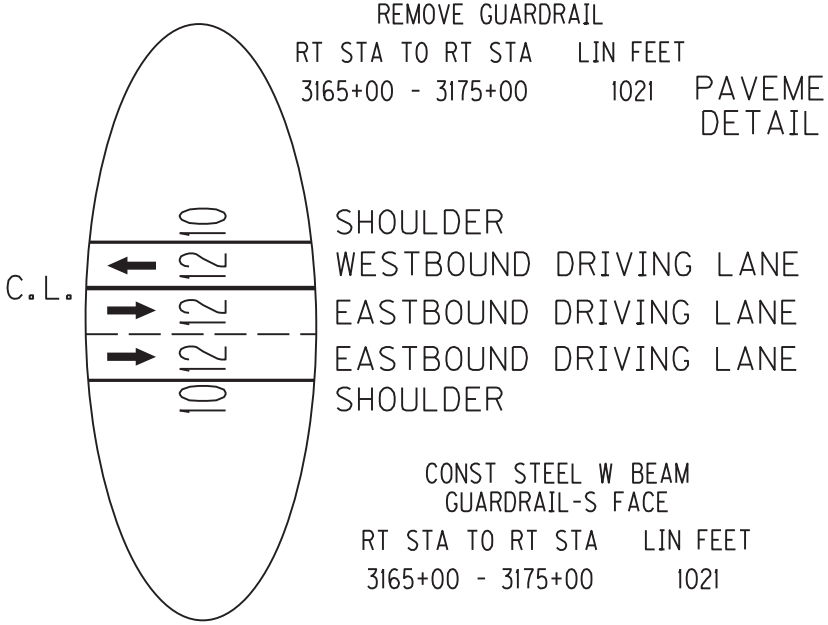
REMOVE GUARDRAIL

RT STA TO RT STA	LIN FEET
3165+00 - 3175+00	1021

PAVEMENT DETAIL B

DITCHING AND SHOULDERING

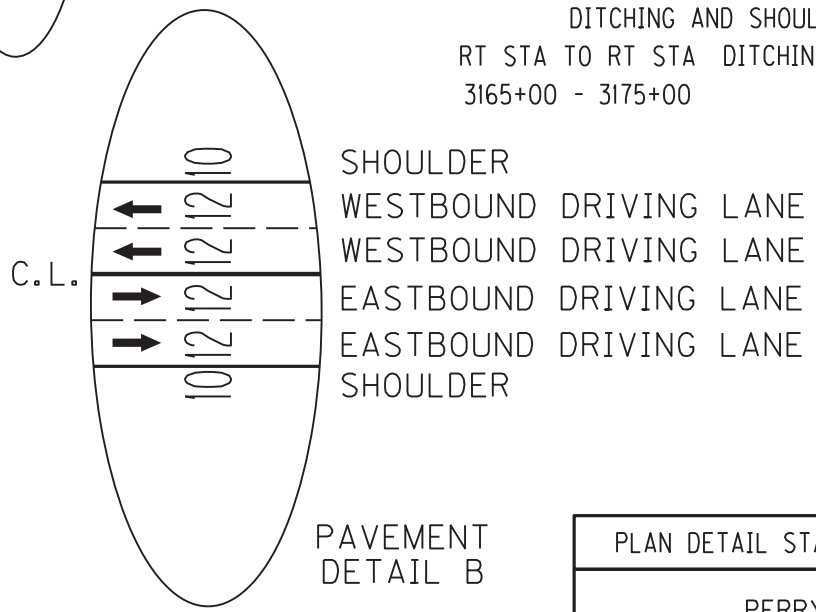
RT STA TO RT STA	DITCHING	SHOULDERING
3165+00 - 3175+00		1021 L.F.



CONST STEEL W BEAM GUARDRAIL-S FACE

RT STA TO RT STA	LIN FEET
3165+00 - 3175+00	1021

PAVEMENT DETAIL A



PAVEMENT DETAIL B

SCALE - 1" = 100'

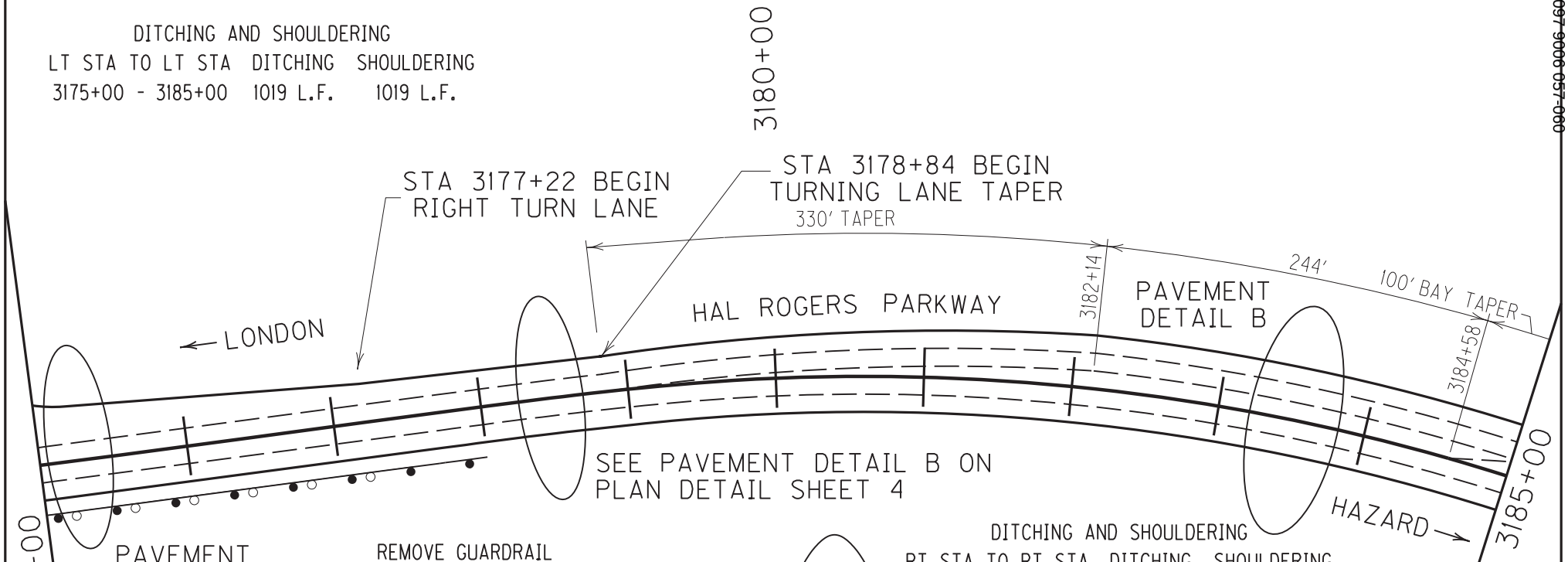
0' 100' 200'

PLAN DETAIL STA 3165+00 - 3175+00

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

DITCHING AND SHOULDERING

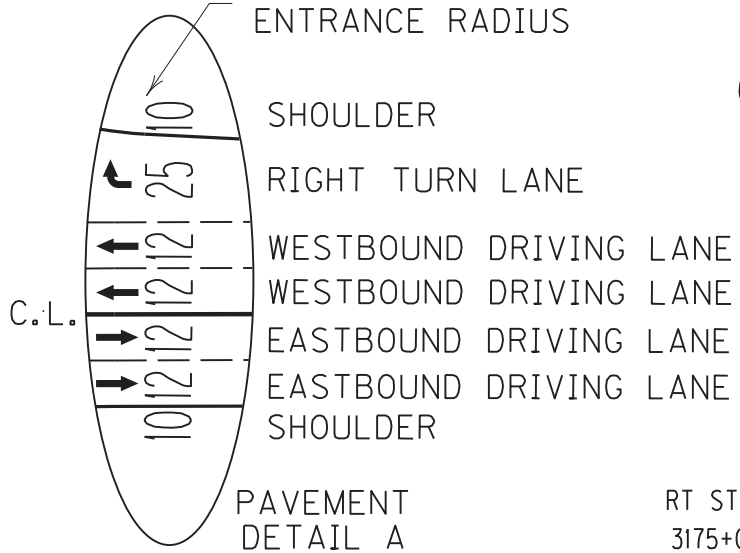
LT STA TO LT STA	DITCHING	SHOULDERING
3175+00 - 3185+00	1019 L.F.	1019 L.F.



PAVEMENT DETAIL A

REMOVE GUARDRAIL

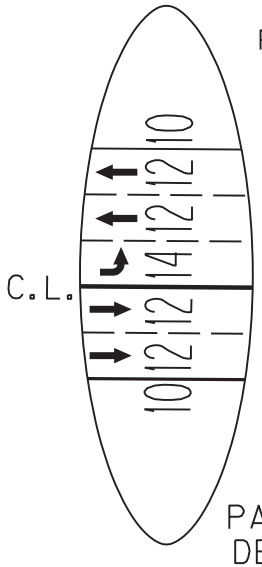
RT STA TO RT STA	LIN FEET
3175+00 - 3177+50	250



PAVEMENT DETAIL A

DITCHING AND SHOULDERING

RT STA TO RT STA	DITCHING	SHOULDERING
3175+00 - 3185+00		983 L.F.



SHOULDER
WESTBOUND DRIVING LANE
WESTBOUND DRIVING LANE
LEFT TURN LANE
EASTBOUND DRIVING LANE
EASTBOUND DRIVING LANE
SHOULDER

PAVEMENT DETAIL B

CONST STEEL W BEAM GUARDRAIL-S FACE

RT STA TO RT STA	LIN FEET	ET TY 1
3175+00 - 3178+00	250	1 EA

SCALE - 1" = 100'

0' 100' 200'

PLAN DETAIL STA 3175+00 - 3185+00

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

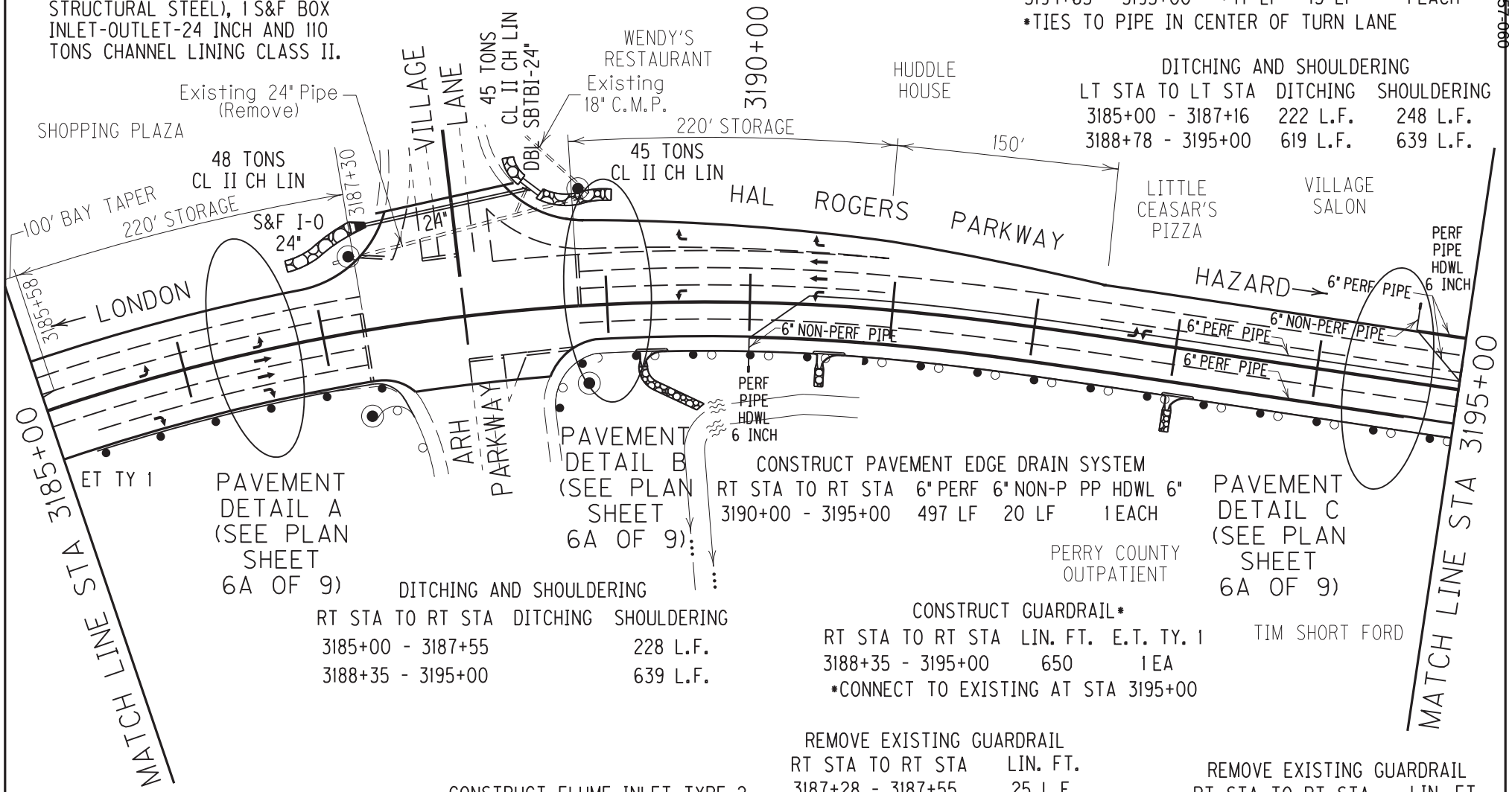
CONSTRUCT PIPE UNDER VILLAGE LANE USING 117 LIN FT 24 INCH CULVERT PIPE, 1 DOUBLE SAFETY TYPE BOX INLET-24 INCH (2.07 CU YDS CLASS A CONCRETE & 596 LBS STRUCTURAL STEEL), 1 S&F BOX INLET-OUTLET-24 INCH AND 110 TONS CHANNEL LINING CLASS II.

CONSTRUCT PAVEMENT EDGE DRAIN SYSTEM
LT STA TO LT STA 6" PERF 6" NON-P PP HDWL 6"
*3194+65 - 3195+00 513 LF
*IN CENTER OF TURN LANE

CONSTRUCT PAVEMENT EDGE DRAIN SYSTEM
LT STA TO LT STA 6" PERF 6" NON-P PP HDWL 6"
3194+65 - 3195+00 35 LF
3194+65 - 3195+00 *47 LF 15 LF 1 EACH
*TIES TO PIPE IN CENTER OF TURN LANE

DITCHING AND SHOULDERING

LT STA TO LT STA	DITCHING	SHOULDERING
3185+00 - 3187+16	222 L.F.	248 L.F.
3188+78 - 3195+00	619 L.F.	639 L.F.



ET TY 1

PAVEMENT DETAIL A (SEE PLAN SHEET 6A OF 9)

PAVEMENT DETAIL B (SEE PLAN SHEET 6A OF 9)

CONSTRUCT PAVEMENT EDGE DRAIN SYSTEM
RT STA TO RT STA 6" PERF 6" NON-P PP HDWL 6"
3190+00 - 3195+00 497 LF 20 LF 1 EACH

PERRY COUNTY OUTPATIENT

PAVEMENT DETAIL C (SEE PLAN SHEET 6A OF 9)

TIM SHORT FORD

DITCHING AND SHOULDERING

RT STA TO RT STA	DITCHING	SHOULDERING
3185+00 - 3187+55		228 L.F.
3188+35 - 3195+00		639 L.F.

CONSTRUCT GUARDRAIL*

RT STA TO RT STA	LIN. FT.	E.T. TY. 1
3188+35 - 3195+00	650	1 EA

*CONNECT TO EXISTING AT STA 3195+00

CONSTRUCT GUARDRAIL*

RT STA TO RT STA	LIN. FT.	E.T. TY. 1
3185+25 - 3187+55	150	1 EA

*CONNECT TO EXISTING AT STA 3187+55

SCALE - 1" = 100'

0' 100' 200'

CONSTRUCT FLUME INLET TYPE 2 WITH CHANNEL LINING CLASS III

RIGHT STATION	EACH	TONS
3188+25	1	34
3190+50	1	14
3193+00	1	10

REMOVE EXISTING GUARDRAIL

RT STA TO RT STA	LIN. FT.
3187+28 - 3187+55	25 L.F.

CONST. STANDARD HEADER CURB

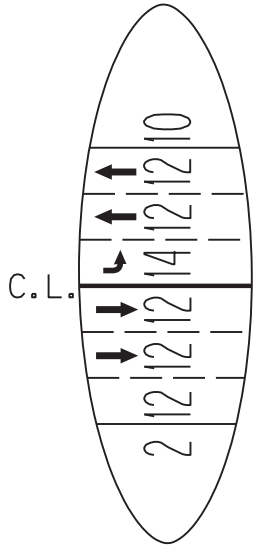
RT STA TO RT STA	LIN. FT.
3188+42 - 3190+46	101 L.F.
3190+69 - 3195+00	428 L.F.
3193+17 - 3195+00	183 L.F.

REMOVE EXISTING GUARDRAIL

RT STA TO RT STA	LIN. FT.
3188+35 - 3195+00	650 L.F.

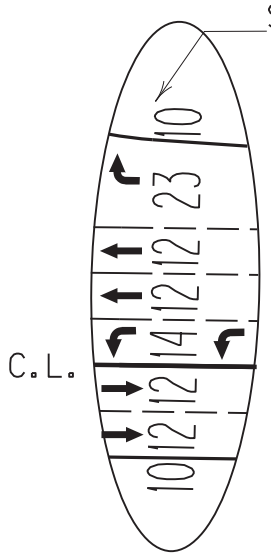
PLAN DETAIL STA 3175+00 - 3185+00

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00



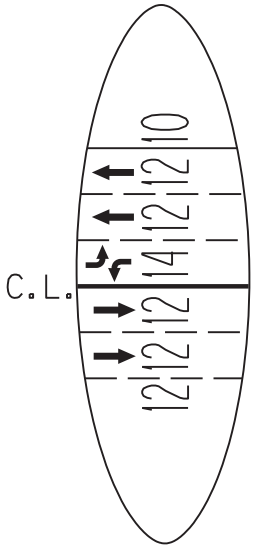
SHOULDER
WESTBOUND DRIVING LANE
WESTBOUND DRIVING LANE
LEFT TURN LANE
EASTBOUND DRIVING LANE
EASTBOUND DRIVING LANE
RIGHT TURN LANE
SHOULDER

PAVEMENT
DETAIL A



SHOULDER
RIGHT TURN LANE
GORE AREA
WESTBOUND DRIVING LANE
WESTBOUND DRIVING LANE
LEFT TURN LANE
EASTBOUND DRIVING LANE
EASTBOUND DRIVING LANE
SHOULDER

PAVEMENT
DETAIL B



SHOULDER
WESTBOUND DRIVING LANE
WESTBOUND DRIVING LANE
TWO-WAY LEFT TURN LANE
EASTBOUND DRIVING LANE
EASTBOUND DRIVING LANE
SHOULDER

PAVEMENT
DETAIL C

PLAN DETAIL STA 3175+00 - 3185+00

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

CONSTRUCT GUARDRAIL

LT STA TO LT STA	LIN. FT.	E.T. TY. 1
3197+00 - 3200+50	250	2 EA

DITCHING AND SHOULDERING

LT STA TO LT STA	DITCHING	SHOULDERING
3195+00 - 3205+00	982 L.F.	982 L.F.

CONSTRUCT PAVEMENT EDGE DRAIN SYSTEM

LT STA TO LT STA	6" PERF	6" NON-P	PP HDWL 6"
*3195+00 - 3205+00	999 LF		

*IN CENTER OF TURN LANE

CONSTRUCT PAVEMENT EDGE DRAIN SYSTEM

LT STA TO LT STA	6" PERF	6" NON-P	PP HDWL 6"
3195+00 - 3205+00	**991 LF		
3200+00 - 3200+30	*44 LF	15 LF	1 EACH
3203+00 - 3203+30	*44 LF	15 LF	1 EACH

*TIES TO PIPE IN CENTER OF TURN LANE
** IN LEFT SHOULDER EDGE

REMOVE EXISTING GUARDRAIL

LT STA TO LT STA	LIN. FT.
3197+38 - 3199+91	250

MATCH LINE STA 3195+00

3200+00

MATCH LINE STA 3205+00

PAVEMENT DETAIL A

PAVEMENT DETAIL B

SEE NEXT SHEET FOR GUARDRAIL NOTE.

CAPTAIN D'S RESTAURANT

← LONDON

ET TY 1

TACO BELL

HAL ROGERS PARKWAY

PERF PIPE HDWL 6 INCH

SUPER 8 MOTEL

HAZARD →

PERF PIPE HDWL 6 INCH

AUTO ZONE

ET TY 1

6" PERF PIPE

6" NON-PERF PIPE

6" NON-PERF PIPE

6" PERF PIPE

ET TY 1

PAVEMENT DETAIL A

ET TY 1

TS NO 1

TS NO 1

FRONTAGE ROAD

ENTRANCE TO FRONTAGE RD.

SEE NEXT SHEET FOR GUARDRAIL NOTE.

CAR WASH

GIOVANNIE'S

EXTEND EXISTING 36 INCH CMP CULVERT PIPE ON EACH END

RT STA	PIPE	36" CULV HDWL
3199+28	10 L.F.	1 EA
3200+07	10 L.F.	1 EA

3199+68

CONSTRUCT GUARDRAIL

RT STA TO RT STA	LIN. FT.	E.T. TY. 1	T.S. NO. 1
3200+95 - 3201+75	150	1 EA	1 EA

PEOPLE'S BANK

REMOVE EXISTING GUARDRAIL

RT STA TO RT STA	LIN. FT.
3195+00 - 3199+39	462.5
3199+95 - 3201+00	125

DITCHING AND SHOULDERING

RT STA TO RT STA	DITCHING	SHOULDERING
3195+00 - 3199+39	250 L.F.	427 L.F.
3195+00 - 3199+39	500 L.F.	511 L.F.

CONSTRUCT GUARDRAIL

RT STA TO RT STA	LIN. FT.	E.T. TY. 1	T.S. NO. 1
3195+00 - 3199+39	462.5		1 EA

TIM SHORT FORD

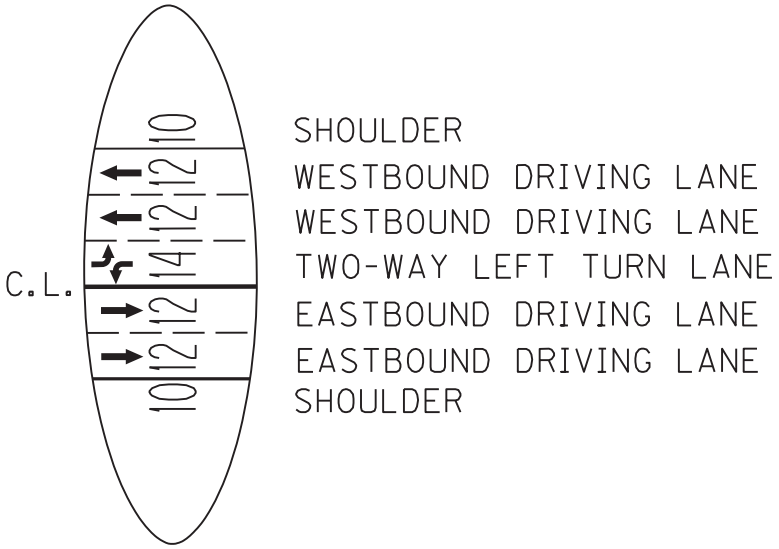
SCALE - 1" = 100'

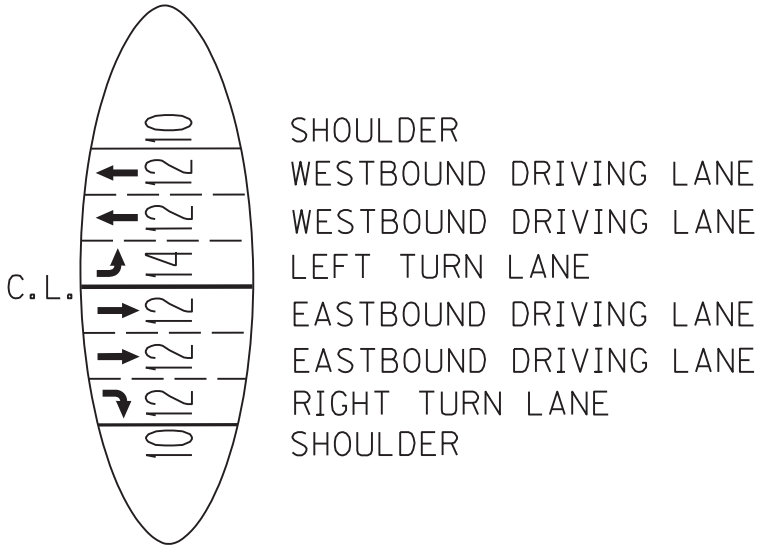
0' 100' 200'

FOR PAVEMENT DETAILS SEE SHEET 7A OF 9

PLAN DETAIL STA 3195+00 - 3205+00

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00





PLAN DETAIL STA 3195+00 - 3205+00

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00

CONSTRUCT PAVEMENT EDGE DRAIN SYSTEM

LT STA TO LT STA	6" PERF PIPE
3205+00 - 3206+00	*100 LF
3205+00 - 3206+00	**99 LF

*IN CENTER OF TURN LANE
**IN LEFT SHOULDER EDGE

REMOVE EXISTING GUARDRAIL

LT STA TO LT STA	LIN. FT.
3206+17 - 3206+32	25 L.F.
3207+77 - 3207+93	25 L.F.

DITCHING AND SHOULDERING

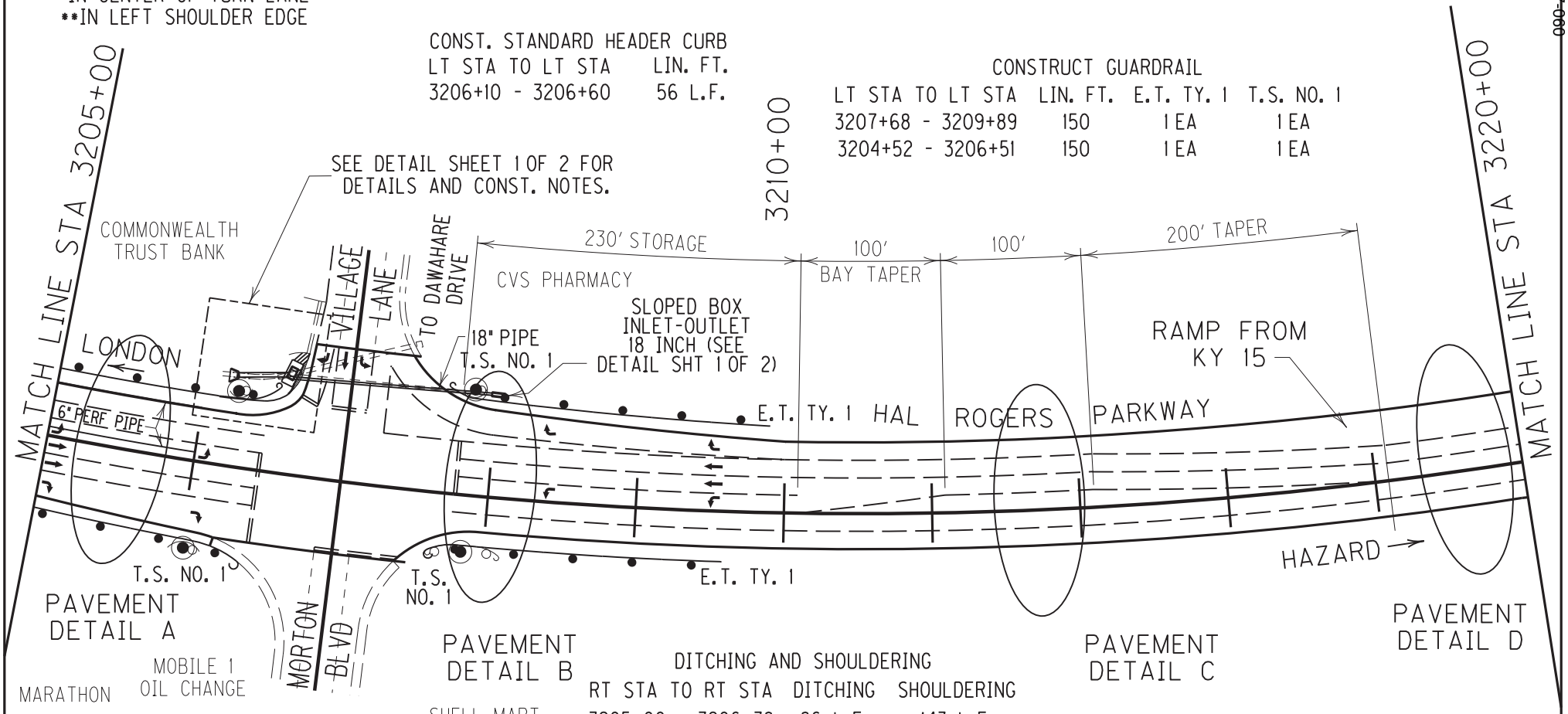
LT STA TO LT STA	DITCHING	SHOULDERING
3205+00 - 3206+58	115 L.F.	156 L.F.
3207+44 - 3220+00	680 L.F.	750 L.F.

CONST. STANDARD HEADER CURB

LT STA TO LT STA	LIN. FT.
3206+10 - 3206+60	56 L.F.

CONSTRUCT GUARDRAIL

LT STA TO LT STA	LIN. FT.	E.T. TY. 1	T.S. NO. 1
3207+68 - 3209+89	150	1 EA	1 EA
3204+52 - 3206+51	150	1 EA	1 EA



DITCHING AND SHOULDERING

RT STA TO RT STA	DITCHING	SHOULDERING
3205+00 - 3206+38	86 L.F.	143 L.F.
3207+46 - 3220+00	770 L.F.	750 L.F.

FOR PAVEMENT DETAILS SEE SHEET 8A OF 9

CONSTRUCT GUARDRAIL

RT STA TO RT STA	LIN. FT.	E.T. TY. 1	T.S. NO. 1
3204+44 - 3206+38	150	1 EA	1 EA
3207+624 - 3209+59	150	1 EA	1 EA

REMOVE EXISTING GUARDRAIL

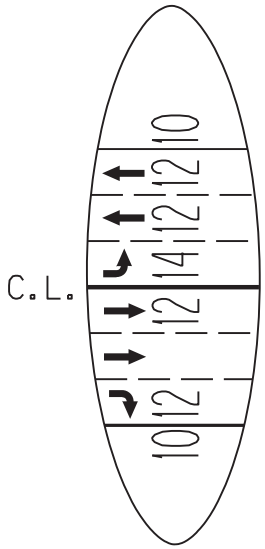
RT STA TO RT STA	LIN. FT.
3205+92 - 3206+13	25 L.F.
3204+47 - 3207+38	50 L.F.

SCALE - 1" = 100'

0' 100' 200'

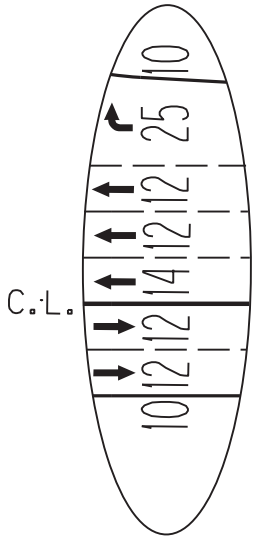
PLAN DETAIL STA 3205+00 - 3210+00

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00



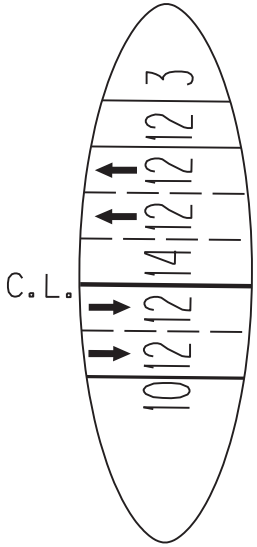
SHOULDER
WESTBOUND DRIVING LANE
WESTBOUND DRIVING LANE
LEFT TURN LANE
EASTBOUND DRIVING LANE
EASTBOUND DRIVING LANE
RIGHT TURN LANE
SHOULDER

PAVEMENT
DETAIL A



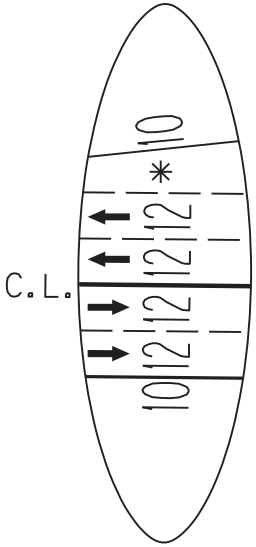
SHOULDER
RIGHT TURN LANE
WESTBOUND DRIVING LANE
WESTBOUND DRIVING LANE
LEFT TURN LANE
EASTBOUND DRIVING LANE
EASTBOUND DRIVING LANE
SHOULDER

PAVEMENT
DETAIL B



SHOULDER
RIGHT TURN LANE
WESTBOUND DRIVING LANE
WESTBOUND DRIVING LANE
FLUSH MEDIAN
EASTBOUND DRIVING LANE
EASTBOUND DRIVING LANE
SHOULDER

PAVEMENT
DETAIL C



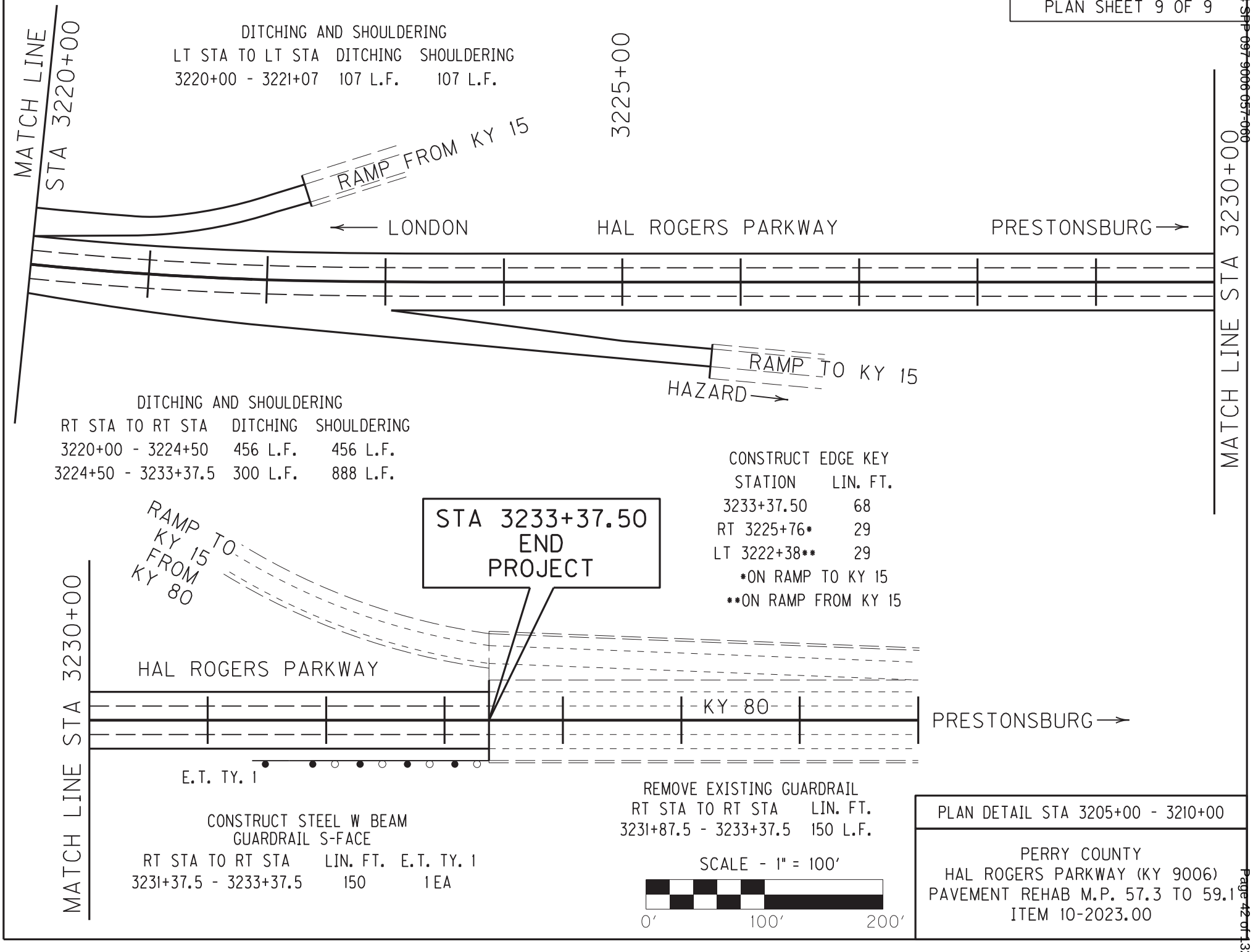
SHOULDER
RAMP FROM KY 15
WESTBOUND DRIVING LANE
WESTBOUND DRIVING LANE
EASTBOUND DRIVING LANE
EASTBOUND DRIVING LANE
SHOULDER

PAVEMENT
DETAIL D

* WIDTH VARIES

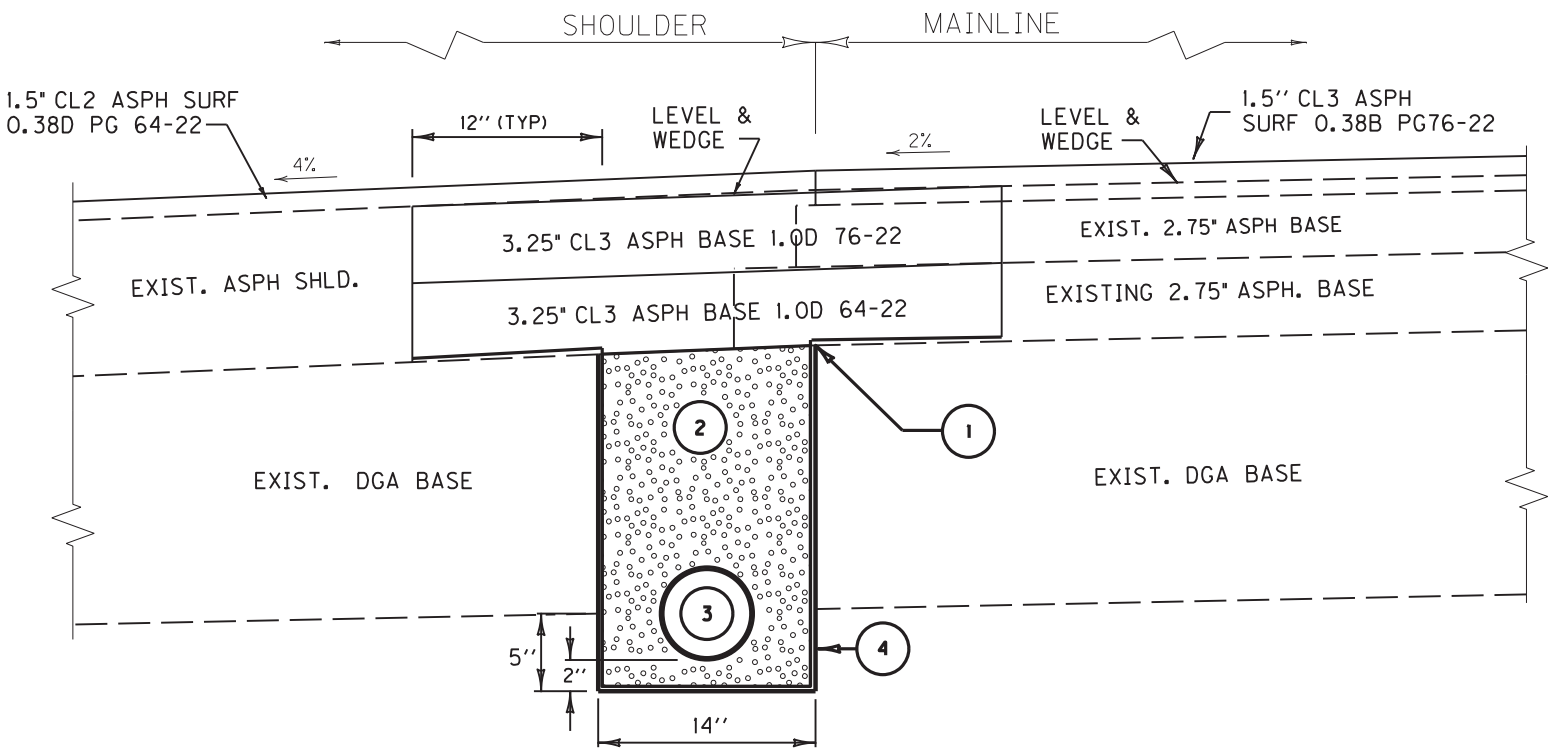
PLAN DETAIL STA 3205+00 - 3210+00

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00



PLAN DETAIL STA 3205+00 - 3210+00

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
PAVEMENT REHAB M.P. 57.3 TO 59.1
ITEM 10-2023.00



PERFORATED PIPE DRAIN OUTSIDE SHOULDER

(1) SAW CUT A NEAT LINE IN THE EXISTING ASPHALT SHOULDER BEFORE REMOVING.
OR - ANY APPROVED METHOD MAY BE USED PROVIDED A NEAT EDGE IS OBTAINED.

(2) CRUSHED AGGREGATE SIZE NO. 57 (NO SAND)

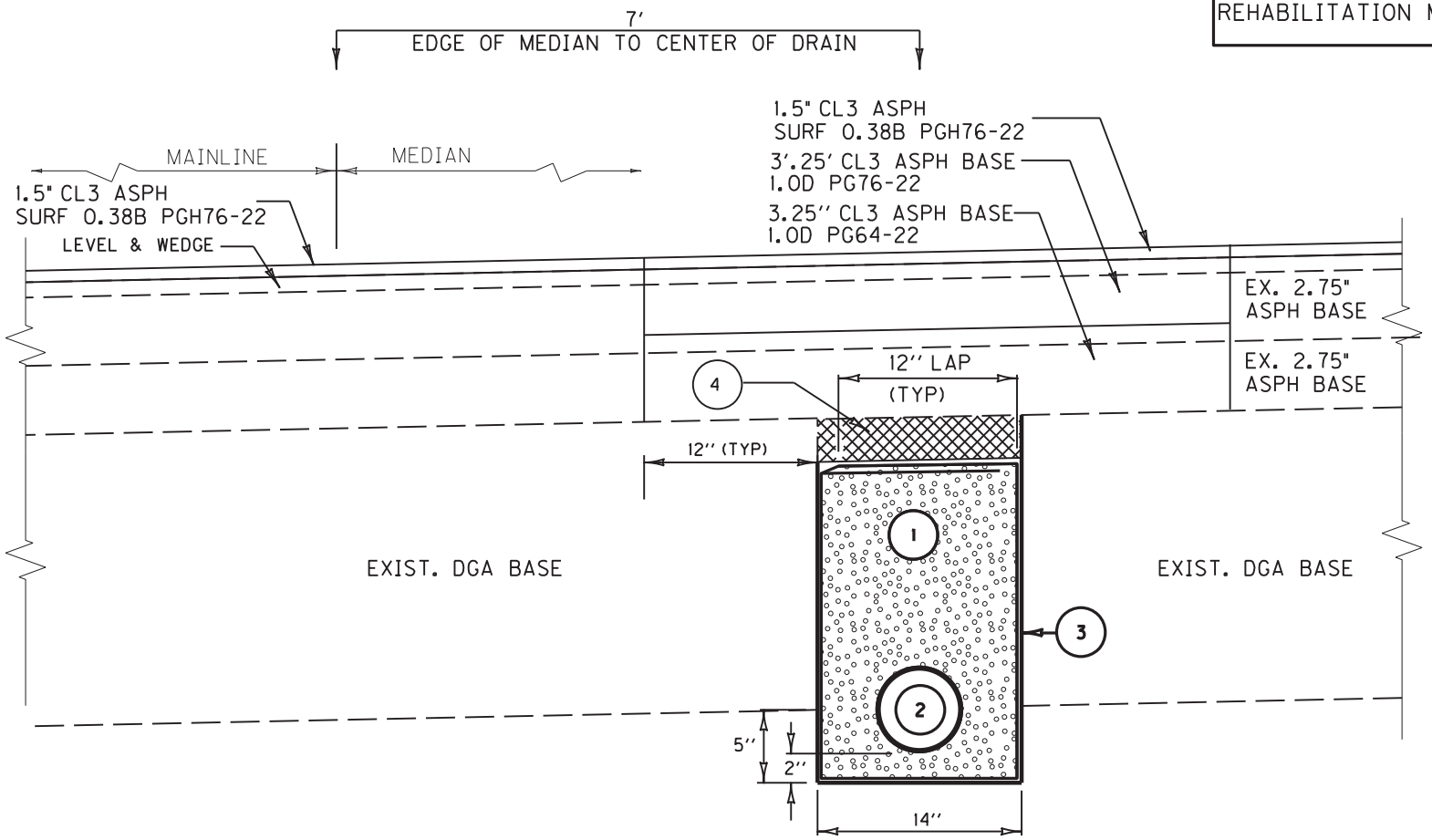
(3) 1001 PERFORATED PIPE-6 INCH (NO SOCK)
1011 NON-PERFORATED PIPE-6 INCH (OUTLET)

(4) FABRIC-GEOTEXTILE TYPE IV (7' WIDTH)

PAVEMENT EDGE DRAIN EXISTING PAVEMENT

NOT TO SCALE

ITEM # 10–2023



PERFORATED PIPE DRAIN INSIDE SHOULDER

① CRUSHED AGGREGATE SIZE NO. 57 (NO SAND)

② 1001 PERFORATED PIPE-6 INCH (NO SOCK)
1011 NON-PERFORATED PIPE-6 INCH (OUTLET)

③ FABRIC-GEOTEXTILE TYPE IV (7' WIDTH)

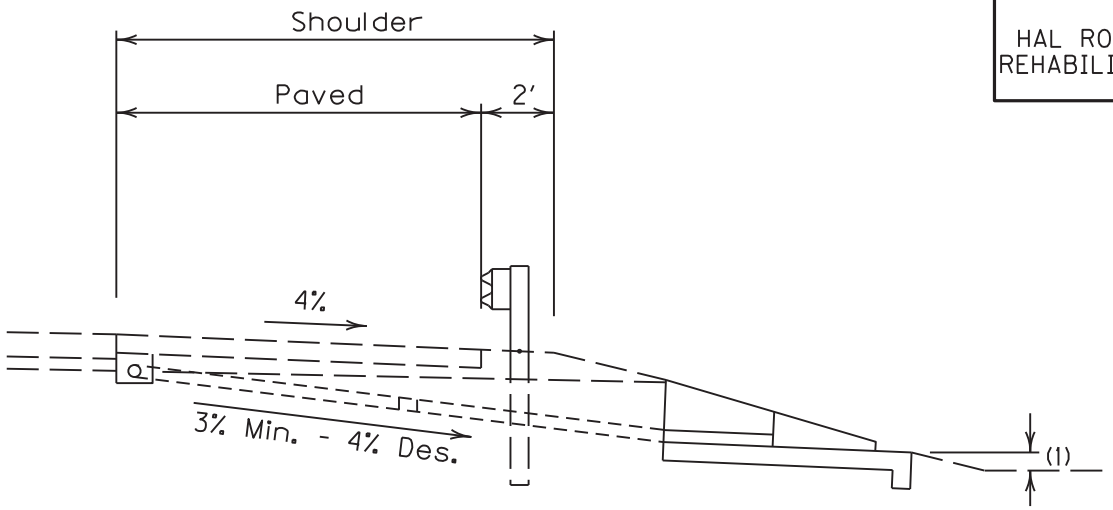
④ DRAINAGE BLANKET-TYPE IV-ASPH. (INCIDENTAL TO PERF. PIPE)

PAVEMENT EDGE DRAIN EXISTING PAVEMENT (MEDIAN)

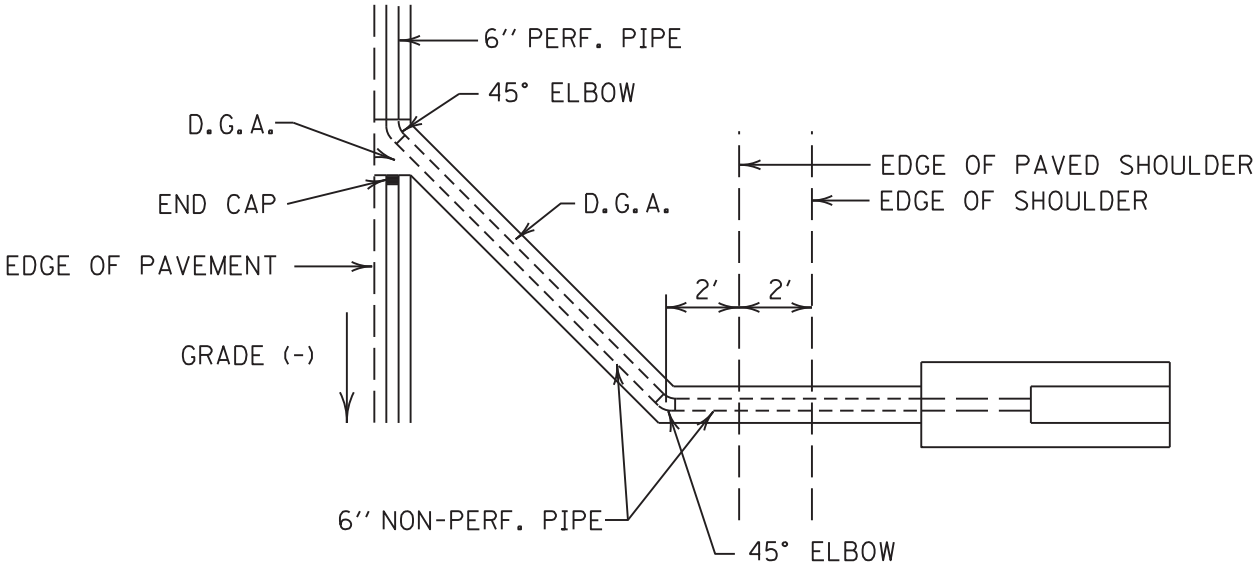
NOT TO SCALE

ITEM # 10–2023

PERRY COUNTY
HAL ROGERS PARKWAY (KY 9006)
REHABILITATION M.P. 57.3 TO 59.2



(1) 6'' minimum Freeboard to the bottom of the ditch.

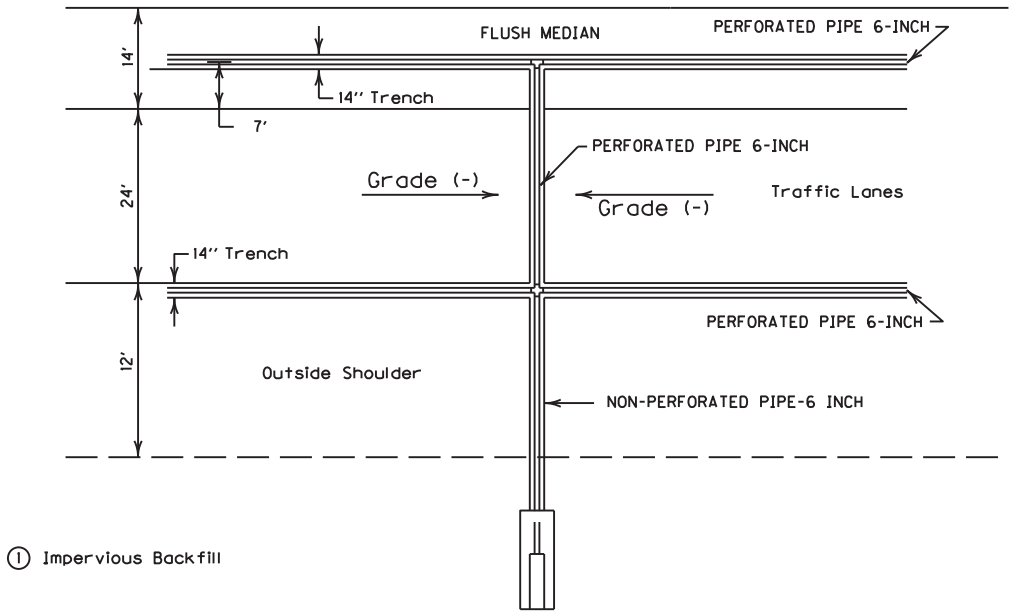


LONGITUDINAL PAVEMENT EDGE DRAIN

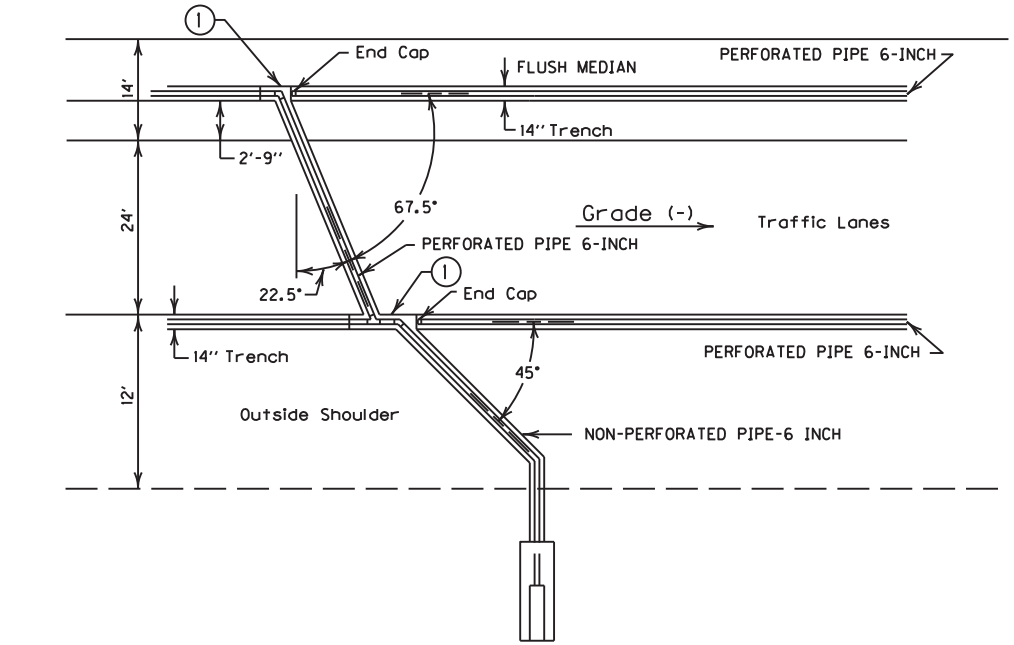
(PERFORATED PIPE)

NOT TO SCALE

ITEM # 10–2023



OUTLET IN SAG



OUTLET IN GRADE

NOT TO SCALE

ITEM # 10–2023

PROJECT NOTES

1. CONCRETE CURB SHALL BE CONSTRUCTED WITH #6 REBARS SPACING AT 10 FEET APART, THE BARS SHOULD BE DOWELED AND EPOXIED 6" INTO THE PAVEMENT AND 2" INTO THE CONCRETE CURB TO PROVIDE STABILITY. ALL THE NECESSARY WORKS AND MATERIALS SHALL BE INCIDENTAL TO THE BID ITEM "CONCRETE WEDGE CURB" AND "ISLAND CURB."

2. CONCRETE CURB SHALL BE TIED TO THE EXISTING AND PROPOSED FLUMES TO THE SATISFACTION OF THE ENGINEER TO PROVIDE PROPER AND POSITIVE DRAINAGE.

3. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL UNWANTED MATERIALS FROM SHOULDER AND DITCH, SUCH AS TREES, DEBRIS, LARGE BOULDERS AND OTHER MATERIALS, AND ARE CONSIDERED PART OF THE 'SHOULDERING' AND 'DITCHING' BID ITEMS.

4. PRIOR TO ORDER GUARDRAILS, CONTRACTOR IS RESPONSIBLE TO PROVIDE THE ENGINEER WITH NUMBER OF CURVE RADIUS GUARDRAILS NEEDED FOR THIS PROJECT.

5. AREAS WHERE RUNS OF GUARDRAIL ARE TO BE ELIMINATED OR SHORTENED SHALL BE SITE GRADED TO THE SATISFACTION OF THE ENGINEER TO PROVIDE SMOOTH RECOVERY SLOPES. SITE GRADING SHALL BE INCLUDED IN THE BID ITEM "REMOVE GUARDRAIL."

6. GUARDRAIL REMOVED FROM THE PROJECT IN LOCATIONS INDICATED IN THE PROPOSAL SHALL BE DELIVERED TO THE PERRY COUNTY MAINTENANCE LOT OR TO LOCATION AS DIRECTED BY THE PROJECT ENGINEER.

7. ALL MATERIALS REMOVED (ROADWAY AND PAVEMENT) SHALL BE WASTED OFF THE PROJECT AT SITES SELECTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER, AND SHALL BE INCIDENTAL TO OTHER ITEMS OF WORK. THE CABINET IS NOT RESPONSIBLE FOR FINDING A WASTE SITE FOR EXCESS MATERIALS.

8. EXISTING PAVEMENT MARKERS ON THE PROJECT SHALL BE REMOVED PRIOR TO THE PAVING OPERATION. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF THE PAVEMENT MARKERS.

9. CONTRACT BID ITEMS "FLUME TYPE 1" AND 'FLUME TYPE 2" SHALL INCLUDE ALL THE NECESSARY WORK TO REMOVE ANY EXISTING FLUMES AT THE PROPOSED FLUME LOCATIONS.

10. STRIPPING VEGETATION AS NECESSARY FOR THE PROPOSED PAVEMENT CONSTRUCTION OR AS DIRECTED BY THE ENGINEER SHALL BE INCIDENTAL TO THE OTHER ITEMS OF WORK.

11. INLAID PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH THE "SPECIAL NOTE FOR INLAID PAVEMENT MARKERS." THE CONTRACTOR SHALL NOTIFY THE UNIVERSITY OF KENTUCKY TRANSPORTATION CENTER 14 DAYS PRIOR TO THE INSTALLATION OF INLAID PAVEMENT MARKERS.

12. BID ITEM "PERFORATED PIPE – 6 INCH" HAS BEEN ESTABLISHED FOR THE PAVEMENT EDGE DRAIN CONSTRUCTION IN THE EXISTING ASPHALT LANES AND SHOULDERS AT LOCATIONS SPECIFIED ON THE PROPOSAL. THE CONTRACTOR SHALL SAW CUT A NEAT LINE IN THE EXISTING ASPHALT LANES AND SHOULDER PRIOR TO EDGE DRAIN TRENCH EXCAVATION. SAW CUTTING ASPHALT PAVEMENT, FABRIC-GEOTEXTILE TYPE IV AND CRUSHED AGGREGATE SIZE NO. 57 SHALL BE INCIDENTAL TO THE PIPE.

13. DO NOT DAMAGE EXISTING CONCRETE PAVED DITCH DURING REMOVAL OF DEBRIS BUILD-UP. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGED PAVED DITCH.

STANDARD DRAWINGS APPLICABLE TO PROJECT

RBR-001-11	STEEL BEAM GUARDRAIL (“W” – BEAM)
RBR-005-10	GUARDRAIL RAIL COMPONENTS
RBR-010-05	GUARDRAIL TERMINAL SECTIONS
RBR-015-04	GUARDRAIL POSTS
RBR-016-04	GUARDRAIL POSTS
RBR-020-05	GUARDRAIL END TREATMENT TYPE 1
RBR-025-04	GUARDRAIL END TREATMENT TYPE 2A
RBI-001-10	TYPICAL GUARDRAIL INSTALLATIONS
RBI-002-06	TYPICAL GUARDRAIL INSTALLATIONS
RBI-003-008	TYPICAL INSTALLATION FOR GUARDRAIL END TREATMENT TYPE 2A
RDD-001-05	PAVED DITCH TYPE 1
RDX-225	SILT TRAP TYPE B
RDX-101-04	SILT TRAP TYPE C
RDD-020-06	FLUME INLET TYPE 1
RDD-021-07	FLUME INLET TYPE 2
RDD-040-04	CHANNEL LINING CLASS II AND III
RDI-001-09	CULVERT, ENTRANCE & STORM SEWER PIPE TYPES AND COVER HEIGHTS
RDI-002-04	CULVERT, ENTRANCE & STORM SEWER PIPE TYPES AND COVER HEIGHTS
RDI-011-02	CULVERT, ENTRANCE & STORM SEWER PIPE TYPES AND COVER HEIGHTS
RDI-020-08	PIPE BEDDING FOR CULVERTS, ENTRANCE AND STORM SEWER PIPE
RDI-021	PIPE BEDDING FOR CULVERTS, ENTRANCE AND STORM SEWER REINFORCED CONC. PIPE
RDI-025-04	PIPE BEDDING TRENCH CONDITION

RDI-026	PIPE BEDDING TRENCHING CONDITION REINFORCED CONC. PIPE
RDP-001-05	PERFORATED PIPE TYPES AND COVER HEIGHTS
RDP-005-04	PERFORATED PIPE FOR SUBGRADE DRAINAGE ON TWO-LANE (CLASS 2) AND MULTILANE ROADS
RDP-010-08	PERFORATED PIPE HEADWALLS
RMP-100-09	CURB AND GUTTER, CURB AND VALLEY GUTTER
RMP-110-06	APPROACHES, ENTRANCES AND MAIL BOX TURNOUT
TPM-100-02	PAVEMENT MARKER ARRANGEMENT MULTI-LANE ROADWAYS
TPM-105-02	PAVEMENT MARKER ARRANGEMENT MULTI-LANE ROADWAYS
TPM-115-02	PAVEMENT MARKER ARRANGEMENT TWO-LANE, TWO-WAY RAODWAYS
TPM-120-02	PAVEMENT MARKER ARRANGEMENT TWO-LANE TO FOUR LANE TRANSITIONS
TPM 125-02	PAVE. MARKER ARRANGEMENT EXIT GORE & OFF RAMP
TPM-130-02	PAVE. MARKER ARRANGEMENT ON-RAMP WITH TAPERED ACCELERATION LANE
TPM-135-02	PAVE. MARKER ARRANGEMENT ON-RAMP WITH PARALLEL ACCELERATION LANE
TPM-140-02	PAVE. MARKER ARRANGEMENT TWO-WAY, LEFT TURN LANE
TPM-150-01	CENTERLINE RUMBLE STRIPS
TTC-115-02	LANE CLOSURE MULTILANE HIGHWAY CASE I
TTC-120-02	LANE CLOSURE MULTILANE HIGHWAY CASE II
TTD-125-01	PAVEMENT CONDITION WARNING SIGNS
TTD-120-01	WORK ZONE SPEED LIMIT AND DOUBLE FINE SIGNS
RGS-002-05	SUPERELEVATION FOR MULTI-LANE PAVEMENT
RGS-001-06	CURVE WIDENING AND SUPERELEVATION TRANSITIONS

SEPIA LIST

1. SEPIA 002 DELINEATORS FOR GUARDRAILS
2. SEPIA 004 DELINEATORS FOR CONCRETE BARRIERS
3. SEPIA 007 GUARDRAIL END TREATMENT TYPE 2A
4. SEPIA 008 GUARDRAIL COMPONENTS

SPECIAL SEPIA SHEET FOR DOUBLE SAFETY TYPE BOX INLET, THIS DRAWING IS ATTACHED WITH THE PROPOSAL.

GENERAL NOTE:

165 BEFORE YOU DIG

THE CONTRACTOR IS INSTRUCTED TO CALL 1-800-752-6007 TO REACH KY 811, THE ONE-CALL SYSTEM FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE CALL IS TO BE PLACED A MINIMUM OF TWO (2) AND NO MORE THAN TEN (10) BUSINESS DAYS PRIOR TO EXCAVATION. THE CONTRACTOR SHOULD BE AWARE THAT OWNERS OF UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE KY 811 ONE-CALL BEFORE-U-DIG (BUD) SERVICE. THE CONTRACTOR MUST COORDINATE EXCAVATION WITH THE UTILITY OWNERS, INCLUDING THOSE WHOM DO NOT SUBSCRIBE TO KY 811. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY COURT CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE AREA.

444 ASPHALT PAVEMENT RIDE QUALITY

PAVEMENT RIDEABILITY REQUIREMENTS, IN ACCORDANCE WITH SECTION 410 OF THE STANDARD SPECIFICATIONS, SHALL APPLY ON THIS PROJECT. CATEGORY A SHALL APPLY.

455 EDGE KEY

THIS WORK INCLUDES CUTTING OUT THE EXISTING ASPHALT SURFACE TO A MINIMUM DEPTH AND WIDTH AS DETAILED ELSEWHERE IN THE PLANS SO THAT THE NEW SURFACE MAY HEEL INTO THE EXISTING SURFACE. THE CONTRACT UNIT PRICE BID LINEAR FOOT (PER METER) FOR "EDGE KEY" INCLUDES ALL NECESSARY MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND DISPOSE OF THE REMOVED ASPHALT MATERIAL.

650 STANDARD DRAWINGS

STANDARD DRAWINGS ARE NOT ATTACHED TO THESE PLANS. A STANDARD DRAWING BOOK AND THE HEADWALL SUPPLEMENTAL BOOK MAY BE OBTAINED FROM THE POLICY SUPPORT BRANCH OF THE DEPARTMENT OF ADMINISTRATIVE SERVICES IN FRANKFORT, KY. AT (502) 564-3670

SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS

THE DIMENSIONS SHOWNON THE TYPICAL SECTIONS FOR PAVEMENT AND SHOULDER WIDTHS AND THICKNESS' ARE NOMINAL OR TYPICAL DIMENSIONS. THE ACTUAL DIMENSIONS TO BE CONSTRUCTED MAY BE VARIED TO FIT EXISTING CONDITIONS AS DIRECTED OR APPROVED BY THE ENGINEER. IT IS NOT INTENDED THAT EXISTING PAVEMENT OR SHOULDERS BE WIDENDED UNLESS SPECIFIED ELSEWHERE IN THE PROPOSAL.

SPECIAL NOTE 1I PORTABLE CHANGEABLE MESSAGE SIGNS

SPECIAL NOTE FOR INLAID PAVEMENT MARKERS (EXPERIMENTAL)

SPECIAL NOTE FOR PAVEMENT SUBSURFACE DRAINAGE OUTLET

SPECIAL NOTE FOR BARCODE LABEL ON PERMANENT SIGNS

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SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

This Special Note will apply when indicated on the plans or in the proposal.

1.0 DESCRIPTION. Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer. Remove and retain possession of variable message signs when they are no longer needed on the project.

2.0 MATERIALS.

2.1 General. Use LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

2.2 Sign and Controls. All signs must:

1) Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
2) Provide at least 40 preprogrammed messages available for use at any time. Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
3) Provide a controller consisting of:
   a) Keyboard or keypad.
   b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
   c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
   d) Logic circuitry to control the sequence of messages and flash rate.
4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
6) Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
7) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
8) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
9) Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.
10) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.

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11) Provide a photocell control to provide automatic dimming.
12) Allow an on-off flashing sequence at an adjustable rate.
13) Provide a sight to aim the message.
14) Provide a LED display color of approximately 590 nm amber.
15) Provide a controller that is password protected.
16) Provide a security device that prevents unauthorized individuals from accessing the controller.
17) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

/KEEP/RIGHT/⇒⇒⇒/
/KEEP/LEFT/⇐⇐⇐/
/LOOSE/GRAVEL/AHEAD/
/RD WORK/NEXT/**MILES/
/TWO WAY/TRAFFIC/AHEAD/
/PAINT/CREW/AHEAD/
/REDUCE/SPEED/**MPH/
/BRIDGE/WORK/***0 FT/
/MAX/SPEED/**MPH/
/SURVEY/PARTY/AHEAD/
/MIN/SPEED/**MPH/
/ICY/BRIDGE/AHEAD/ /ONE LANE/BRIDGE/AHEAD/
/ROUGH/ROAD/AHEAD/
/MERGING/TRAFFIC/AHEAD/
/NEXT/***/MILES/
/HEAVY/TRAFFIC/AHEAD/
/SPEED/LIMIT/**MPH/
/BUMP/AHEAD/
/TWO/WAY/TRAFFIC/

*Insert numerals as directed by the Engineer.
Add other messages during the project when required by the Engineer.

2.3 Power.

1) Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.

3.0 CONSTRUCTION. Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater.

Maintain the sign in proper working order, including repair of any damage done by others, until completion of the project. When the sign becomes inoperative, immediately repair or replace the sign. Repetitive problems with the same unit will be cause for rejection and replacement.

Use only project related messages and messages directed by the Engineer, unnecessary messages lessen the impact of the sign. Ensure the message is displayed in either one or 2 phases with each phase having no more than 3 lines of text. When no message is needed, but it is necessary to know if the sign is operable, flash only a pixel.

When the sign is not needed, move it outside the clear zone or where the Engineer directs. Variable Message Signs are the property of the Contractor and shall be removed from the project when no longer needed. The Department will not assume ownership of these signs.

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4.0 MEASUREMENT. The final quantity of Variable Message Sign will be the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

5.0 PAYMENT. The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

Code	Pay Item	Pay Unit
02671	Portable Changeable Message Sign	Each

Effective June 15, 2012

Special Provision for Waste and Borrow Sites

The contractor is advised that it is their responsibility to gain U.S. Army Corp of Engineer's approval before utilizing a waste or borrow site that involves "Waters of the United States". "Waters of the United States" are defined as perennial or intermittent streams, ponds or wetlands. Ephemeral streams are also considered jurisdictional waters, and are typically dry except during rainfall, but have a defined drainage channel. Questions concerning any potential impacts to "Waters…" should be brought to the attention of the appropriate District Office for the Corps of Engineers for a determination, prior to disturbance. Any fees associated with obtaining approval from the U.S. Army Corp of Engineer or other appropriate regulatory agencies for waste and borrow sites is the responsibility of the contractor.

01/01/2009

447 Compaction of Asphalt Mixtures

Will accept the Compaction of Asphalt Mixtures furnished for driving lanes and ramps at one inch (25 MM) or greater on this project by Option A according to Subsections 402 and 403 of the current Standard Specifications. Use joint cores as described in Subsection 402.03.02 for surface mixtures only. Will accept the compaction of all other Asphalt Mixtures by Option B.

Special Note for Asphalt Milling and Texturing

Asphalt Millings from the project are to be placed in shoulder drop-off areas as directed by the Engineer. The remaining Asphalt Millings from the project (Hal Rogers Parkway Section) shall become the property of the Contractor

Special Note for: Erosion Prevention and Sediment Control

Hal Rogers Parkway; Perry County

The Contractor shall be responsible for filing the Kentucky Pollution Discharge Elimination System (KPDES) KYR10 permit Notice of Intent (NOI) with the Kentucky Division of Water (DOW) and any KPDES local Municipal Separate Storm Sewer System (MS4) program that has jurisdiction. The NOI shall name the contractor as the Facility Operator and include the KYTC Contract ID Number (CID) for reference.

The Contractor shall perform all temporary erosion/sediment control functions including: providing a Best Management Practice (BMP) Plan, conducting required inspections, modifying the BMP plan documents as construction progresses and documenting the installation and maintenance of BMPs in conformance with the KPDES KYR10 permit effective on August 1, 2009 or a permit re-issued to replace that KYR10 permit. This work shall be conducted in conformance with the requirements of Section 213 of KYTC 2008 Department of Highways, Standard Specifications for Road and Bridge Construction.

Contrary to Section 213.03.03, paragraph 2, the Engineer shall conduct inspections as needed to verify compliance with Section 213 of KYTC 2008 Department of Highways, Standard Specifications for Road and Bridge Construction. The Engineer's inspections shall be performed a minimum of once per month and within seven days after a storm of ½ inch or greater. Copies of the Engineer's inspections shall not be provided to the contractor unless improvements to the BMP's are required. The contractor shall initiate corrective action within 24 hours of any reported deficiency and complete the work within 5 days. The Engineer shall use Form TC 63-61 A for this report. Inspections performed by the Engineer do not relieve the Contractor of any responsibility for compliance with the KPDES permit.

Contrary to Section 213.05, bid items for temporary BMPs will not be listed and will be replaced with one lump sum item for the services. Payment will be pro-rated based on the Project Schedule as submitted by the Contractor and as agreed to by the Engineer.

The contractor shall be responsible for applying "good engineering practices" as required by the KPDES permit. The contractor may use any temporary BMPs with the approval of the KYTC Engineer.

The contractor shall provide the Engineer copies of all documents required by the KPDES permit at the time they are prepared.

The contractor shall be responsible for the examination of the soils to be encountered and make his own independent determination of the temporary BMPs that will be required to accomplish effective erosion prevention and sediment control.

The Contractor shall be responsible for filing the KPDES permit Notice of Termination (NOT) with the Kentucky DOW and any local MS4 program that has jurisdiction. The NOT shall be filed after the Engineer agrees that the project is stabilized or the project has been formally accepted.

Payment: Payment will by lump sum under the bid item "K.P.D.E.S. PERMIT & TEMPORARY EROSION CONTROL".

SPECIAL NOTE FOR BARCODE LABEL ON PERMANENT SIGNS

1.0 DESCRIPTION. Install barcode label on sign as specified in the Contract. Section references herein are to the Department's 2012 Standard Specifications for Road and Bridge Construction.

2.0 MATERIALS. The Department will provide the Contractor with a 2 inch x 1 inch foil barcode label for each permanent sign. A unique number will be assigned to each barcode label.

The Contractor shall contact the Operations and Pavement Management Branch in the Division of Maintenance at (502) 564-4556 to obtain the barcode labels.

3.0 CONSTRUCTION. Apply foil barcode label in the lower right quadrant of the sign back. Signs where the bottom edge is not parallel to the ground, the lowest corner of the sign shall serve as the location to place the barcode label. The barcode label shall be placed no less than one-inch and no more than three inches from any edge of the sign. The barcode must be placed so that the sign post does not cover the barcode label.

Barcodes shall be applied in an indoor setting with a minimum air temperature of 50°F or higher. Prior to application of the barcode label, the back of the sign must be clean and free of dust, oil, etc. If the sign is not clean, an alcohol swab shall be used to clean the area. The area must be allowed to dry prior to placement of the barcode label.

Data for each sign shall include the barcode number, MUTCD reference number, sheeting manufacturer, sheeting type, manufacture date, color of primary reflective surface, installation date, latitude and longitude using the North American Datum of 1983 (NAD83) or the State Plane Coordinates using an x and y ordinate of the installed location.

Data should be provided electronically on the TC 71-229 Sign Details Information and TC 71-230 Sign Assembly Information forms. The Contractor may choose to present the data in a different format provided that the information submitted to the Department is equivalent to the information required on the Department TC forms. The forms must be submitted in electronic format regardless of which type of form is used. The Department will not accept PDF or handwritten forms. These completed forms must be submitted to the Department prior to final inspection of the signs. The Department will not issue formal acceptance for the project until the TC 71-229 and TC-230 electronic forms are completed for all signs and sign assemblies on the project.

4.0 MEASUREMENT. The Department will measure all work required for the installation of the barcode label and all work associated with completion and submission of the sign inventory data (TC 71-229 and TC 71-230).

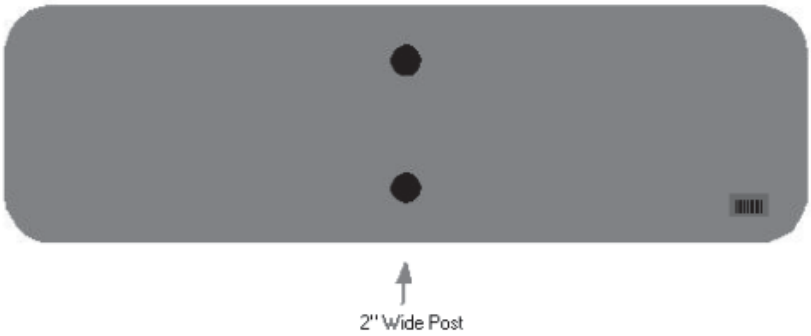
The installation of the permanent sign will be measured in accordance to Section 715.

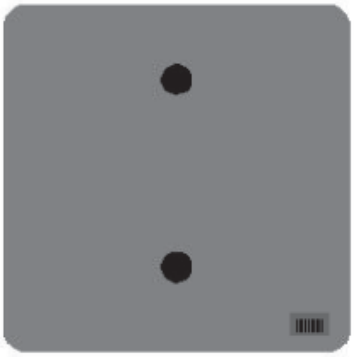
5.0 PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

Code	Pay Item	Pay Unit
24631EC	Barcode Sign Inventory	Each

The Department will not make payment for this item until all barcodes are installed and sign inventory is complete on every permanent sign installed on the project. The Department will make payment for installation of the permanent sign in accordance to Section 715. The Department will consider payment as full compensation for all work required under this special note.

One Sign Post





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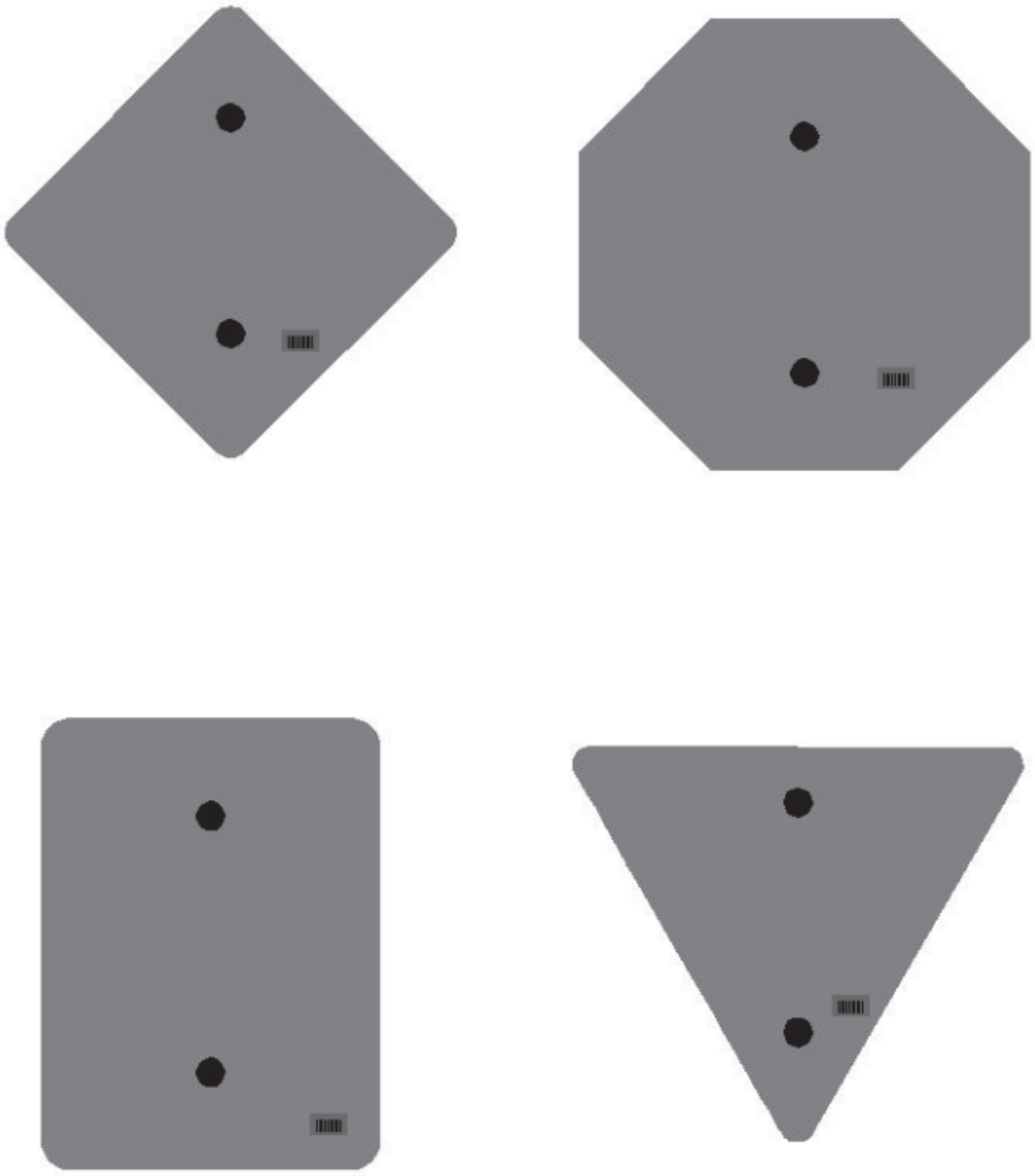

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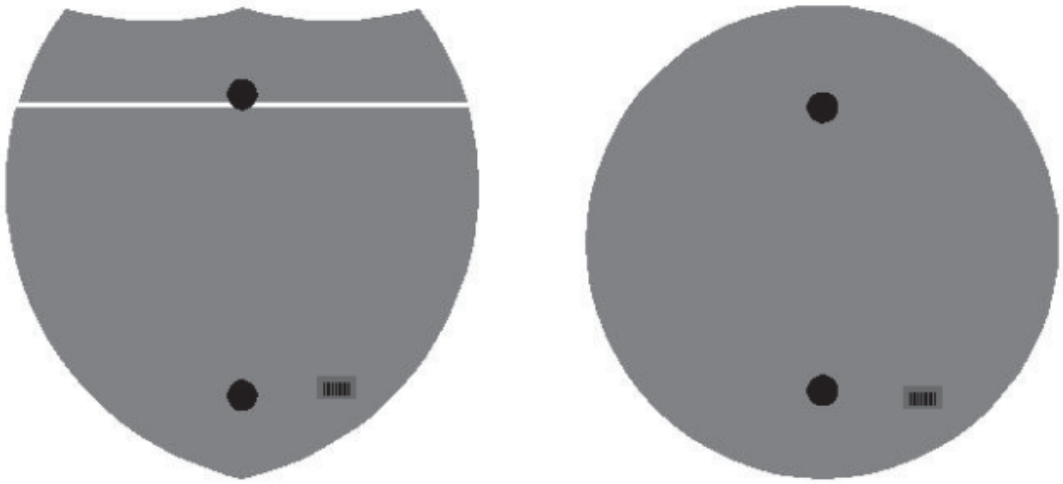
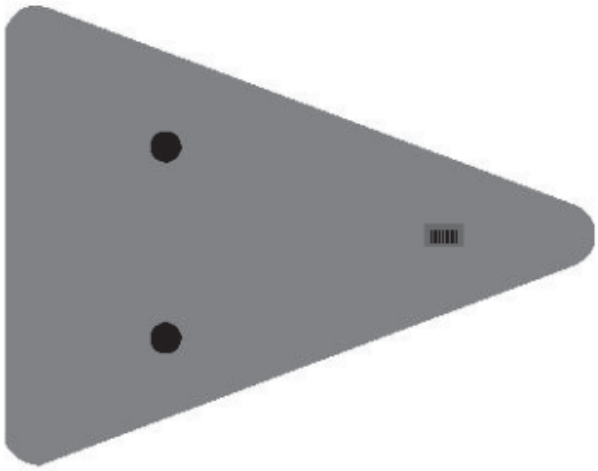
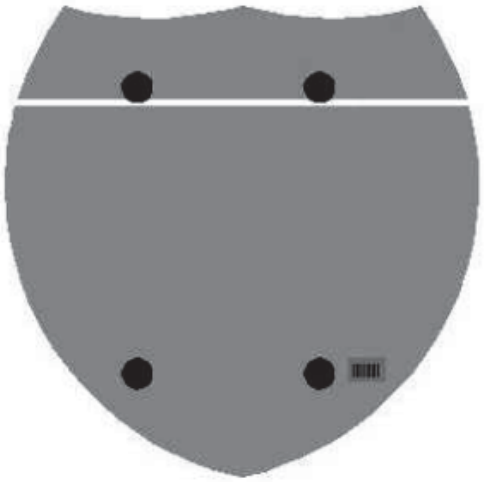
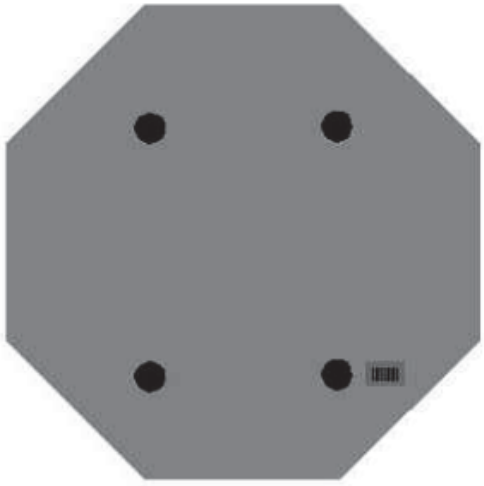




Double Sign Post

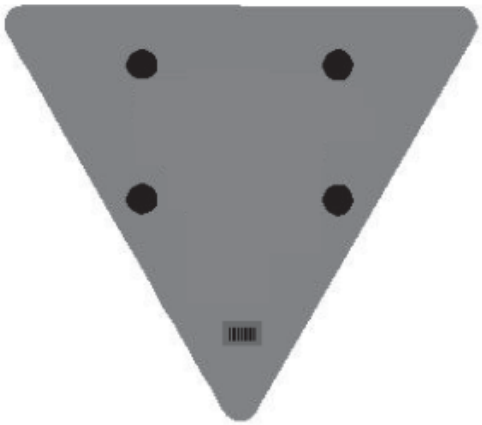


Interstate
Shield



48" Stop

2 Post Signs



SPECIAL NOTE FOR INLAID PAVEMENT MARKERS (EXPERIMENTAL)

I. DESCRIPTION.

Except as provided herein, perform all work in accordance with the Department's Standard and Supplemental Specifications and applicable Standard and Sepia Drawings, current editions. Article references are to the Standard Specifications. This work shall consist of:

(1) Maintain and Control Traffic; and (2) Furnish and install Inlaid Pavement Markers (IPMs) in recessed grooves; and (3) Any other work as specified by these notes and the Contract.

II. MATERIALS.

The Department will sample all materials in accordance with the Department's Sampling Manual. Make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these Notes.

A. Maintain and Control Traffic. See Traffic Control Plan.

B. Markers. Use Marker One Model R-100 or approved equal mono-directional white, bi-directional yellow, and mono-directional yellow type markers. Provide reflective lenses with depth control breakaway positioning tabs. Before furnishing the markers, provide to the Engineer the manufacturer’s current recommendations for adhesives and installation procedures. Use one brand and design throughout the project.

C. Adhesives. Use adhesives that conform to the manufacturer’s recommendations.

III. CONSTRUCTION

A. Experimental Evaluation. The University of Kentucky Transportation Center will be evaluating this experimental installation of IPMs. Notify the Engineer a minimum of 14 calendar days prior to beginning work. The Engineer will coordinate the University’s activities with the Contractor’s work.

B. Maintain and Control Traffic. See Traffic Control Plan.

C. Installation. Install IPMs in recessed grooves cut into the final course of asphalt pavement according to the manufacturer’s recommendations. Do not cut the grooves until the pavement has cured sufficiently to prevent tearing or raveling. Remove all dirt, grease, oil, loose or unsound layers, and any other material from the marker area which

would reduce the bond of the adhesive. Maintain pavement surfaces in a clean condition until placing markers.

Prepare the pavement surfaces, and install the markers in the recessed groove according to the manufacturer's recommendations. Ensure that the adhesive bed area is equal to the bottom area of the marker, and apply adhesive in sufficient quantity to force excess out around the entire perimeter of the marker. Use materials, equipment, and construction procedures that ensure proper adhesion of the markers to the pavement surface according to the manufacturer's recommendations. Remove all excess adhesive from in front of the reflective faces. If any adhesive or foreign matter cannot be removed from the reflective faces, or if any marker fails to properly adhere to the pavement surface, remove and replace the marker at no additional cost to the Department.

D. Location and Spacing. Install the markers in the pattern for High Reflectivity Option with two (2) IPMs per groove. Locate and space markers as shown on the drawing. Do not install markers on bridge decks. Do not install a marker on top of a pavement joint or crack. Offset the recessed groove a minimum of 2 inches from any longitudinal pavement joint or crack and at least one inch from the painted stripe, ensuring that the finished line of markers is straight with minimal lateral deviation. Give preference to maintaining the 2-inch offset between recessed groove and joint as opposed to keeping the line of markers straight.

Place inlaid markers as much in line with existing pavement striping as possible. Place markers installed along an edge line or channelizing line so that the near edge of the plastic housing is no more than one inch from the near edge of the line. Place markers installed along a lane line between and in line with the dashes. Do not place markers over the lines except where the lines deviate visibly from their correct alignment, and then only after obtaining the Engineer's prior approval of the location.

If conflicts between recessed groove placement in relation to pavement joint and striping cannot be resolved, obtain the Engineer's approval to eliminate the marker or revise the alignment.

E. Disposal of Waste. Dispose of all removed asphalt pavement, debris, and other waste at sites off the right of way obtained by the Contractor at no additional cost to the Department. See Special Note for waste and Borrow.

F. Restoration. Be responsible for all damage to public and/or private property resulting from the work. Restore all damaged features in like kind materials and design at no additional cost to the Department.

G. On-Site Inspection. Make a thorough inspection of the site prior to submitting a bid and be thoroughly familiar with existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of a bid as evidence of this inspection having been made and will not honor any claims for money or grant Contract time extensions resulting from site conditions.

H. Caution. Do not take information shown on the drawings and in this proposal and the types and quantities of work listed as an accurate or complete evaluation of the material and conditions to be encountered during construction, but consider the types and quantities of work listed as approximate only. The bidder must draw his own conclusion as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation or extension of Contract time if the conditions encountered are not in accordance with the information shown.

IV. MEASUREMENT

A. Maintain and Control Traffic. See Traffic Control Plan.

B. Inlaid Pavement Markers. The Department will measure only the bid items listed. The Department will measure the quantity of IPMs of each type by individual marker, each. The Department will not measure grooving pavement, removal of asphalt cuttings and debris, preheating pavement to remove moisture, adhesives, or lenses, but shall be incidental to the Inlaid Pavement Markers.

V. PAYMENT

A. Maintain and Control Traffic. See Traffic Control Plan.

B. Inlaid Pavement Markers. The Department will make payment for the completed and accepted quantity of IPMs Markers at the Contract unit price, each. Accept payment as full compensation for all labor, equipment, materials, and incidentals to accomplish this work to the satisfaction of the Engineer. The all markers shall be paid as “INLAID PAVEMENT MARKER”. The bid item “INLAID PAVEMENT MARKER” shall be used regardless of the color and type of lenses required.

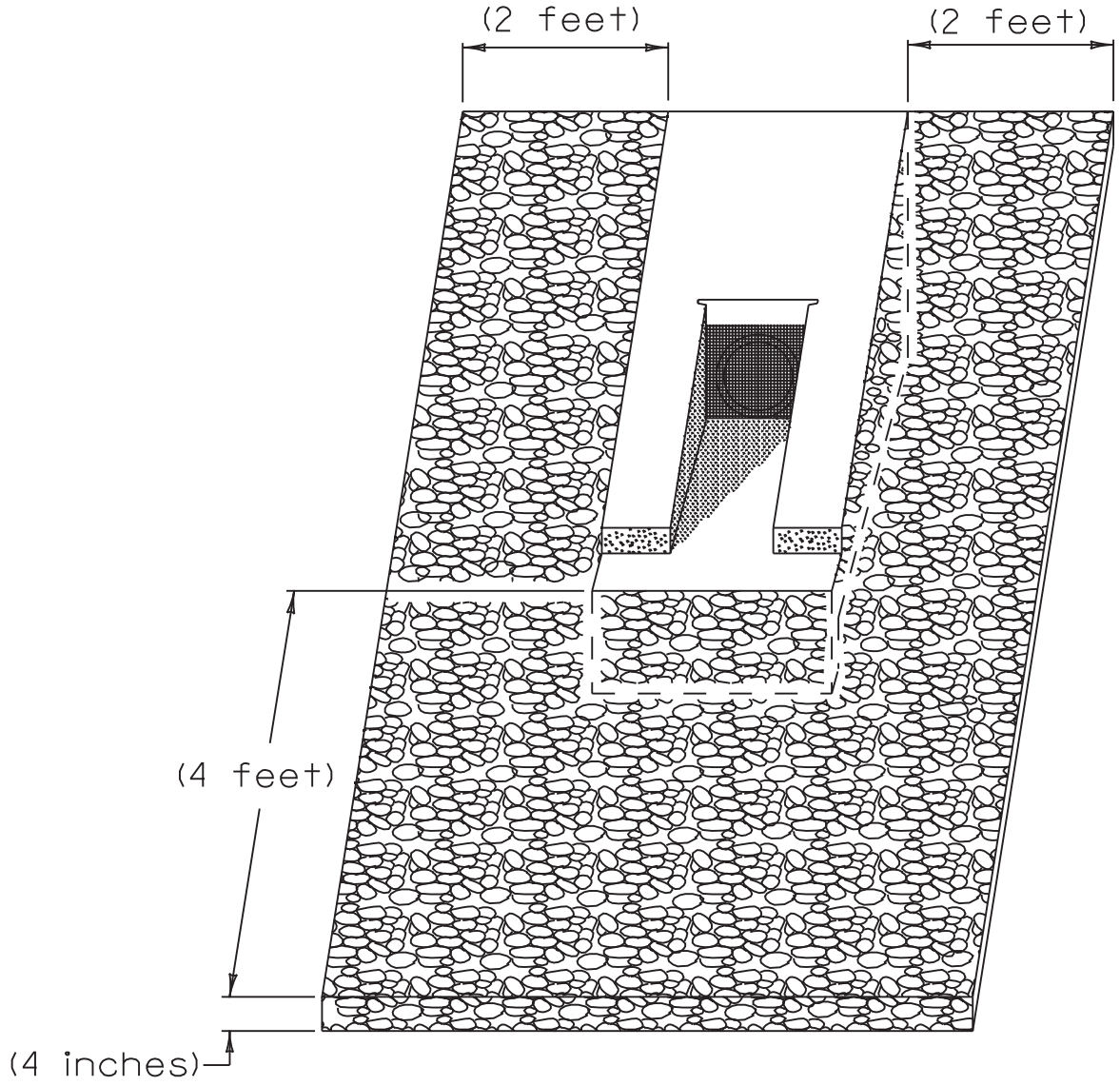
SPECIAL NOTE FOR PAVEMENT SUBSURFACE DRAINAGE OUTLET

Use approximately one ton of Crushed Aggregate Size No. 2 at all Perforated Pipe Headwall Outlets as illustrated in the detail below. Place Crushed Aggregate Size No. 2 to a minimum depth of 4'' as detailed below.

Use Dense Graded Aggregate (DGA) removed during placement of the Crushed Aggreagate Size No. 2 to dress existing shoulders where DGA is exposed. Waste other materials removed during placement of the Crushed Aggregate Size No. 2 as directed by the Engineer. The Department will make no direct payment for disposal of wasted material.

The Department will consider payment for Crushed Aggregate Size No. 2 as full compensation for all materials, labor, and other incidentals necessary to place Crushed Aggregate Size No. 2 for vegetation control and/or erosion control at pavement edge drain outlets.

See current Standard Drawing RDP-010 for dimensions and other details.



FEB. 02-2000

SPECIAL NOTE FOR LONGITUDINAL PAVEMENT JOINT ADHESIVE

1. DESCRIPTION. This specification covers the requirements and practices for applying an asphalt adhesive material to the longitudinal joint of the surface course of an asphalt pavement. Apply the adhesive to the face of longitudinal joint between driving lanes for the first lane paved. Then, place and compact the adjacent lane against the treated face to produce a strong, durable, waterproof longitudinal joint.

2. MATERIALS, EQUIPMENT, AND PERSONNEL.

2.1 Joint Adhesive. Provide material conforming to Subsection 2.1.1 or 2.1.2.

2.1.1 Provide an adhesive conforming to the following requirements:

Property	Specification	Test Procedure
Viscosity, 400 ° F (Pa·s)	4.0 – 10.0	ASTM D 3236
Cone Penetration, 77 ° F	60 – 100	ASTM D 5329
Flow, 140 ° F (mm)	5.0 max.	ASTM D 5329
Resilience, 77 ° F (%)	30 min.	ASTM D 5329
Ductility, 77 ° F (cm)	30.0 min.	ASTM D 113
Ductility, 39 ° F (cm)	30.0 min.	ASTM D 113
Tensile Adhesion, 77 ° F (%)	500 min.	ASTM D 5329
Softening Point, ° F	171 min.	AASHTO T 53
Asphalt Compatibility	Pass	ASTM D 5329

Ensure the temperature of the pavement joint adhesive is between 380 and 410 °F when the material is extruded in a 0.125-inch-thick band over the entire face of the longitudinal joint.

2.1.2 Provide an adhesive conforming to the following requirements:

Property	Specification	Test Procedure
Softening Point[1],° F	176 min.	AASHTO T 53
Cone Penetration[2], 77 ° F	20-60	ASTM D 5329
Flow[1], 140 ° F (mm)	5.0 max.	ASTM D 5329
Tensile Adhesion, 77 ° F (%)	500 min.	ASTM D 5329
Asphalt Compatibility	Pass	ASTM D 5329
Resilience[2], 77 ° F (%)	30 min.	ASTM D 5329
Slump Test[1], 300 ° F (mm)	2.0 max.	ASTM D 2202

[1]Cold sample forced into molds at 325 º F.
[2]Field sample extruded into mold at application temperature.

Ensure the temperature of the pavement joint adhesive is between 300 and 350 °F when the material is extruded in a 0.20 to 0.40-inch-thick band over the entire face of the longitudinal joint.

2.2. Equipment.

2.2.1 Melter Kettle. Provide an oil-jacketed, double-boiler, melter kettle equipped with any needed agitation and recirculating systems.

2.2.2 Applicator System. Provide a pressure-feed-wand applicator system with an applicator shoe attached.

2.3 Personnel. Ensure a technical representative from the manufacturer of the pavement joint adhesive is present during the initial construction activities and available upon the request of the Engineer.

3. CONSTRUCTION.

3.1 Surface Preparation. Prior to the application of the pavement joint adhesive, ensure the face of the longitudinal joint is thoroughly dry and free from dust or any other debris that would inhibit adhesion. Clean the joint face by the use of compressed air. Ensure this preparation process occurs shortly before application to prevent the return of debris on the joint face.

3.2 Pavement Joint Adhesive Application. Ensure the ambient temperature is a minimum of 40 ^{o} F during the application of the pavement joint adhesive. Prior to applying the adhesive, demonstrate competence in applying the adhesive according to this note to the satisfaction of the Engineer. Heat the adhesive in the melter kettle to the specified temperature range. Pump the adhesive from the melter kettle through the wand onto the vertical face of the cold joint. Apply the adhesive in a continuous band over the entire face of the longitudinal joint. Do not use excessive material in either thickness or location. Ensure the edge of the extruded adhesive material is flush with the surface of the pavement. Then, place and compact the adjacent lane against the joint face. Remove any excessive material extruded from the joint after compaction (a small line of material may remain).

3.3 Pavement Joint Adhesive Certification. Furnish the joint adhesive's certification to the Engineer stating the material conforms to all requirements herein prior to use.

3.4 Sampling and Testing. The Department will require a random sample of pavement joint adhesive from each manufacturer's lot of material. Extrude two 5 lb. samples of the heated material and forward the sample to the Division of Materials for testing. Reynolds oven bags, turkey size, placed inside small cardboard boxes or cement cylinder molds have been found suitable. Ensure the product temperature is 400°F or below at the time of sampling.

4. MEASUREMENT. The Department will measure the quantity of Pavement Joint Adhesive in linear feet. The Department will not measure for payment any extra

materials, labor, methods, equipment, or construction techniques used to satisfy the requirements of this note. The Department will not measure for payment any trial applications of Pavement Joint Adhesive, the cleaning of the joint face, or furnishing and placing the adhesive. The Department will consider all such items incidental to the Pavement Joint Adhesive.

5. PAYMENT. The Department will pay for the Pavement Joint Adhesive at the Contract unit bid price and apply an adjustment for each manufacturer's lot of material based on the degree of compliance as defined in the following schedule. When a sample fails on two or more tests, the Department may add the deductions, but the total deduction will not exceed 100 percent.

Pavement Joint Adhesive Price Adjustment Schedule						
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay
Joint Adhesive Referenced in Subsection 2.1.1						
Viscosity, 400 ° F (Pa•s)			3.0-3.4	2.5-2.9	2.0-2.4	≤1.9
ASTM D 3236	4.0-10.0	3.5-10.5	10.6-11.0	11.1-11.5	11.6-12.0	≥ 12.1
Cone Penetration, 77 ° F			54-56	51-53	48-50	≤ 47
ASTM D 5329	60-100	57-103	104-106	107-109	110-112	≥ 113
Flow, 140 ° F (mm) ASTM D 5329	≤ 5.0	≤ 5.5	5.6-6.0	6.1-6.5	6.6-7.0	≥ 7.1
Resilience, 77 ° F (%) ASTM D 5329	≥ 30	≥ 28	26-27	24-25	22-23	≤ 21
Tensile Adhesion, 77 ° F (%) ASTM D 5329	≥ 500	≥ 490	480-489	470-479	460-469	≤ 459
Softening Point, ° F AASHTO T 53	≥ 171	≥ 169	166-168	163-165	160-162	≤ 159
Ductility, 77 ° F (cm) ASTM D 113	≥ 30.0	≥ 29.0	28.0-28.9	27.0-27.9	26.0-26.9	≤ 25.9
Ductility, 39 ° F (cm) ASTM D 113	≥ 30.0	≥ 29.0	28.0-28.9	27.0-27.9	26.0-26.9	≤ 25.9
Joint Adhesive Referenced in Subsection 2.1.2						
Flow, 140 ° F (mm) ASTM D 5329	≤ 5	5.1-5.2	5.3-5.4	5.5-5.6	5.7-5.8	≥5.9
Resilience, 77 ° F (%) ASTM D 5329	≥ 30	29	28-27	26-25	24-23	≤ 22
Softening Point, ° F AASHTO T 53	≥ 176	≥ 174	171-173	168-170	165-167	≤ 164
Cone Penetration, 77 ° F ASTM D 5329			16-17	14-15	12-13	≤ 11
	20-60	18-62	63-64	65-66	67-68	≥ 69
Tensile Adhesion, 77 ° F (%) ASTM D 5329	≥ 500	≥ 490	480-489	470-479	460-469	≤ 459
Slump Test, 300 ° F (mm) ASTM D 2202	≤ 2.0	≤ 2.5	2.6-3.0	3.1-3.5	3.6-4.0	≥ 4.1
Asphalt Compatibility, ASTM D 5329	Pass					

Code	Pay Item	Pay Unit
20071EC	Joint Adhesive	Linear Foot

June 8, 2004

GUARDRAIL DELIVERY VERIFICATION SHEET

CONTRACT ID _____

DESCRIPTION	UNIT	QUANTITIES FIELD VERIFIED	QUANTITIES DELIVERED
GUARDRAIL STEEL W BEAM	LF		
GUARDRAIL STEEL THRIE BEAM	LF		
GUARDRAIL THRIE BEAM-W BEAM CONNECTOR	EA		
GUARDRAIL TERMINAL SECTION No. 1	EA		
GUARDRAIL TERMINAL SECTION No. 2	EA		
GUARDRAIL TERMINAL SECTION No. 3	EA		
GUARDRAIL THRIE BEAM TERMINAL SECTION	EA		
CRASH CUSHION TYPE VI	EA		
CRASH CUSHION TYPE VII	EA		
CRASH CUSHION TYPE IX/IX-A	EA		
GUARDRAIL END TREATMENT TYPE 1	EA		
GUARDRAIL END TREATMENT TYPE 2A	EA		
GUARDRAIL END TREATMENT TYPE 3	EA		
GUARDRAIL END TREATMENT TYPE 4A	EA		
GUARDRAIL END TREATMENT TYPE 7	EA		
GUARDRAIL CONNECTOR TO BRIDGE END TYPE A/A-1	EA		
GUARDRAIL CONNECTOR TO BRIDGE END TYPE E/E-1	EA		
GUARDRAIL CONNECTOR TO BRIDGE END TYPE C	EA		
GUARDRAIL CONNECTOR TO BRIDGE END TYPE D	EA		
GUARDRAIL CONNECTOR TO CONC MED PIER	EA		
GUARDRAIL CONNECTOR TO CONC SHLDR PIER	EA		
GUARDRAIL POSTS-STEEL	EA		
GUARDRAIL OFFSET BLOCK TYPE 4	EA		
GUARDRAIL OFFSET BLOCK STEEL	EA		
GUARDRAIL OFFSET BLOCK THRIE BEAM	EA		
GUARDRAIL BACK-UP PLATE W BEAM	EA		
GUARDRAIL BACK-UP PLATE THRIE BEAM	EA		
GUARDRAIL NUTS, BOLTS, & WASHERS	BAG		

NOTES:

1. Dispose of concrete foundations and timber posts off the Right-of-Way at sites obtained by the Contractor at no additional cost to the Department.
2. Salvage and deliver removed guardrail system components, other than concrete foundations and timber posts, according to Section 719.03.07.
3. Prior to removing the materials from the project site, obtain the Contractor's and Engineer's representativ's signatures.
4. Upon delivery, obtain the Bailey Bridge Lot's representative's signature and submit this completed form to the Engineer.
5. The Department will not measure removed guardrail components for payment without completed delivery verification sheet(s).

	PRINTED NAME	SIGNATURE	DATE
RESIDENT ENGINEER'S REPRESENTATIVE	_____	_____	_____
CONTRACTOR'S REPRESENTATIVE	_____	_____	_____
BAILEY BRIDGE LOT'S REPRESENTATIVE	_____	_____	_____

Special Note for Fixed Completion Date and Liquidated Damages
Perry County
Item No. 10-2023

Contrary to Section 108.09, Liquidated Damages of $5,000 per calendar day will be assessed for each day work remains uncompleted beyond the Specified Completion Date. This project has a Fixed Completion Date of June 30, 2015.

In addition to the Liquidated Damages specified in Section 108.09, Liquidated Damages in the following amounts will be charged when a lane closure remains in place during the prohibited period outlined in the Traffic Control Plan:

$3,000 for the first hour or fraction thereof
$5,000 any additional hour or fraction thereof

Contrary to Section 108.09 of the Standard Specifications, **the disincentive fee will be charged during those periods when seasonal limitations of the Contract prohibit the Contractor from working on a controlling item or operation. This includes the months from December through March.**

All liquidated damages will be applied cumulatively.

All other applicable portions of Section 108 apply.

EROSION CONTROL NOTES

1. ALL SILT CONTROL DEVICES SHALL BE SIZED TO RETAIN A VOLUME OF 3,600 CUBIC FEET PER DISTURBED CONTRIBUTING ACRE.

2. THE CONTRACTOR SHALL CONDUCT HIS OPERATION TO MINIMIZE THE AMOUNT OF DISTURBED GROUND DURING EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL COMPUTE THE VOLUME NECESSARY TO CONTROL SEDIMENT DURING EACH PHASE OF CONSTRUCTION. AS WORK PROCEEDS, SILT TRAPS/FENCES MAY BE ADDED OR REMOVED IN ORDER TO ACHIEVE THE BEST MANAGEMENT PLAN.

3. THE REQUIRED VOLUME AT EACH SILT TRAP SHALL BE COMPUTED AS UP GRADIENT CONTRIBUTING AREAS ARE DISTURBED OR ARE STABILIZED TO THE SATISFACTION OF THE ENGINEER. THE REQUIRED VOLUME CALCULATION FOR EACH SILT TRAP SHALL BE DETERMINED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER. THE REQUIRED VOLUME AT EACH SILT TRAP MAY BE REDUCED BY THE FOLLOWING AMOUNTS:

   - UP GRADIENT AREAS NOT DISTURBED (ACRES).
   - UP GRADIENT AREAS THAT HAVE BEEN RECLAIMED AND PROTECTED BY EROSION CONTROL BLANKET OR OTHER GROUND PROTECTION MATERIAL SUCH AS TEMPORARY MULCH (ACRES).
   - UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT FENCE (ACRES). AREAS PROTECTED BY SILT FENCE SHALL BE COMPUTED AT A MAXIMUM RATE OF 100 SQUARE FOOT PER LINEAR FOOT OF SILT FENCE.
   - UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT TRAPS (ACRES).
   - THE USE OF TEMPORARY MULCH IS ENCOURAGED.

4. SILT TRAP TYPE B SHALL ALWAYS BE PLACED AT THE COLLECTION POINT PRIOR TO DISCHARGING INTO A BLUE LINE STREAM OR ONTO AN ADJACENT PROPERTY OWNER. WHERE OVERLAND FLOWS EXIST, A SILT FENCE OR OTHER FILTER DEVICES MAY BE USED. EROSION CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONING PRIOR TO ANY EXCAVATION OR DISTURBANCE WITHIN A DRAINAGE AREA.

5. THE CONTRACTOR SHALL BE REQUIRED TO CLEAN OUT (REMOVE SEDIMENT FROM) SILT TRAPS AND SILT FENCES WHENEVER BECOME ONE - HALF FULL AND PROPERLY DISPOSE OF MATERIAL AT SITES APPROVED BY THE RESIDENT ENGINEER.

TRAFFIC CONTROL PLAN

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE STANDARD DRAWINGS.

2. THE ENGINEER AND THE CONTRACTOR, OR THEIR AUTHORIZED REPRESENTATIVES, SHALL REVIEW THE SIGNING BEFORE TRAFFIC IS ALLOWED TO USE ANY LANE CLOSURES, CROSSOVERS OR DETOURS. ALL SIGNING SHALL BE APPROVED BY THE ENGINEER BEFORE WORK CAN BE STARTED BY THE CONTRACTOR.

3. THE CONTRACTOR SHALL SCHEDULE A REVIEW OF FINAL STRIPING PLANS PRIOR TO PLACEMENT WITH PROJECT TRAFFIC ENGINEER.

4. EXCEPT FOR THE ROADWAY AND TRAFFIC CONTROL BID ITEMS LISTED, ALL ITEMS OF WORK NECESSARY TO MAINTAIN AND CONTROL TRAFFIC WILL BE PAID AT THE LUMP SUM BID PRICE TO "MAINTAIN AND CONTROL TRAFFIC" AS SET FORTH IN THE CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE PROVIDED FOR IN THESE NOTES. THE LUMP SUM BID TO "MAINTAIN AND CONTROL TRAFFIC" SHALL ALSO INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS AND OPERATIONS:

A. ALL LABOR AND MATERIALS NECESSARY FOR CONSTRUCTION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AND MARKINGS.

B. ALL FLAG PERSONS AND TRAFFIC CONTROL DEVICES SUCH AS, BUT NOT LIMITED TO, FLASHERS, SIGNS BARRICADES AND VERTICAL PANELS, PLASTIC DRUMS (STEEL DRUMS WILL NOT BE PERMITTED) AND CONES NECESSARY FOR THE CONTROL AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC AS SPECIFIED IN THESE NOTES, THE PLANS, THE MUTCD OR THE ENGINEER.

C. ALL GRADING AND NECESSARY DRAINAGE FOR THE TEMPORARY ROADWAY AND REMOVAL THEREOF WHEN IT IS NO LONGER NEEDED.

D. LANE CLOSURES AND ALL NECESSARY ITEMS AND WORK NECESSARY TO PERFORM THIS WORK.

5. ANY TEMPORARY TRAFFIC CONTROL ITEMS, DEVICES, MATERIALS AND INCIDENTALS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR WHEN NO LONGER NEEDED.

6. THE CONTRACTOR SHALL MAINTAIN A TWO-LANE TRAVELED WAY WITH A MINIMUM LANE WIDTH OF 11 FEET. HOWEVER, DURING WORKING HOURS, ONE-WAY TRAFFIC MAY BE ALLOWED AT THE DISCRETION OF THE ENGINEER, PROVIDED ADEQUATE SIGNING AND A FLAG PERSON ARE AT THE LOCATION.

7. THE CONTRACTOR SHALL COMPLETELY COVER ANY SIGNS, EITHER EXISTING, PERMANENT OR TEMPORARY, WHICH DO NOT PROPERLY APPLY TO THE CURRENT TRAFFIC PHASING, AND SHALL MAINTAIN THE COVERING UNTIL THE SIGNS ARE APPLICABLE OR ARE REMOVED.

8. IN GENERAL, ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED STARTING AND PROCEEDING IN THE DIRECTION OF THE FLOW OF TRAFFIC AND REMOVED STARTING AND PROCEEDING IN THE DIRECTION OPPOSITE THE FLOW OF TRAFFIC.

9. ALL KENTUCKY DEPARTMENT OF HIGHWAYS SIGNS (NON-ESSENTIAL AND NON-DIRECTIONAL) SHALL BE REMOVED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR IS ADVISED TO SCHEDULE SIGN REMOVAL WITH THE ENGINEER. SIGNS AND POSTS SHALL BE SEPARATED, BONDED ON PALLETS AND DELIVERED TO THE BREATHITT TRAFFIC BARN.

10. IF TRAFFIC SHOULD BE STOPPED DUE TO CONSTRUCTION OPERATIONS AND AN EMERGENCY VEHICLE ON AN OFFICIAL EMERGENCY RUN ARRIVES AT THE SCENE, THE CONTRACTOR SHALL MAKE THE PROVISIONS FOR THE PASSAGE OF THAT VEHICLE AS QUICKLY AS POSSIBLE.

11. THE CONTRACTOR'S VEHICLES SHALL ALWAYS MOVE WITH AND NOT AGAINST THE FLOW OF TRAFFIC. VEHICLES SHALL ENTER AND LEAVE WORK AREAS IN A MANNER WHICH NOT BE HAZARDOUS TO OR INTERFERE WITH NORMAL TRAFFIC. VEHICLES SHALL NOT PARK OR STOP EXCEPT WITHIN WORK AREAS DESIGNATED BY THE ENGINEER.

12. REMOVE ALL PAVEMENTS MARKING BY WATER BLASTING PROCESS TO THE SATISFACTION OF THE ENGINEER.

13. PAVEMENT DROP-OFF

A PAVEMENT EDGE THAT TRAFFIC IS NOT EXPECTED TO CROSS, EXCEPT ACCIDENTALLY, SHOULD BE TREATED AS FOLLOWS:

- LESS THAN TWO INCHES - NO PROTECTION REQUIRED. WARNING SIGNS SHOULD BE PLACED IN ADVANCE AND THROUGHOUT THE DROP-OFF AREA.
- TWO TO FOUR INCHES - PLASTIC DRUMS, VERTICAL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SECTIONS FOR SPEEDS OF 50 MPH OR GREATER. CONES MAY BE USED IN PLACE OF PLASTIC DRUMS, PANELS AND BARRICADES DURING DAYLIGHT HOURS. FOR TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MPH AND FOR CURVES, DEVICES SHOULD BE PLACED EVERY 50 FEET. SPACING OF DEVICES ON TAPERED SECTIONS SHOULD BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
- GREATER THAN FOUR INCHES - POSITIVE SEPARATION OR WEDGE WITH 3:1 OR FLATTER SLOPE NEEDED. IF THERE IS FIVE FEET OR MORE DISTANCE BETWEEN THE EDGE OF THE PAVEMENT AND THE DROP-OFF, THEN DRUMS, PANEL, OR POSITIVE SEPARATION IS STRONGLY ENCOURAGED. IF CONCRETE BARRIERS ARE USED, SPECIAL REFLECTIVE DEVICES OR STEADY BURN LIGHTS SHOULD BE USED FOR OVERNIGHT INSTALLATIONS. BARRICADES MAY BE USED IF THE DROP-OFF IS GREATER THAN 12 INCHES.

FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN FOUR INCHES MAY BE PROTECTED WITH PLASTIC DRUMS, VERTICAL PANELS OR BARRICADES FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.

PAYMENT WILL BE ALLOWED FOR DGA, CSB AND OTHER SUITABLE MATERIALS USED FOR WEDGING.

14. PAYMENT FOR SPEED LIMIT SIGNS (INCLUDING MOUNTING HARDWARE AND POSTS) FOR ADVISEMENT OF REDUCED SPEEDS THROUGH THE WORK ZONE SHALL BE ERECTED WHILE THE CONTRACTOR IS WORKING AND BE INCLUDED IN THE LUMP SUM BID TO “MAINTAIN AND CONTROL TRAFFIC.”

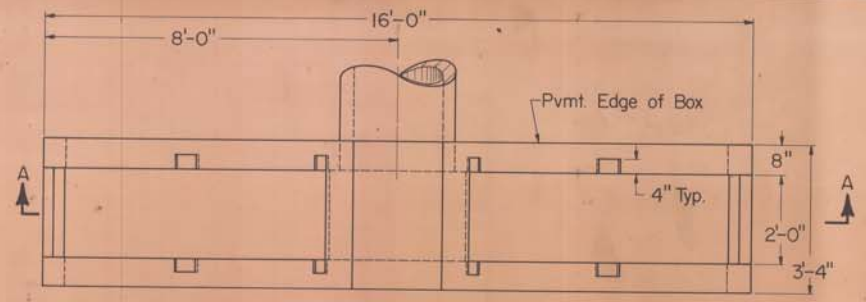
15. THE CONTRACTOR SHALL HAVE AVAILABLE ONE RESERVE FLASHING ARROW TO BE PLACED IN OPERATION IN THE EVENT OF DAMAGE OR MECHANIC/ELECTRICAL

FAILURE. NO DIRECT PAYMENT WILL BE ALLOWED FOR THE RESERVE UNIT. ALL FLASHING ARROWS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AT THE COMPLETION OF THE PROJECT.

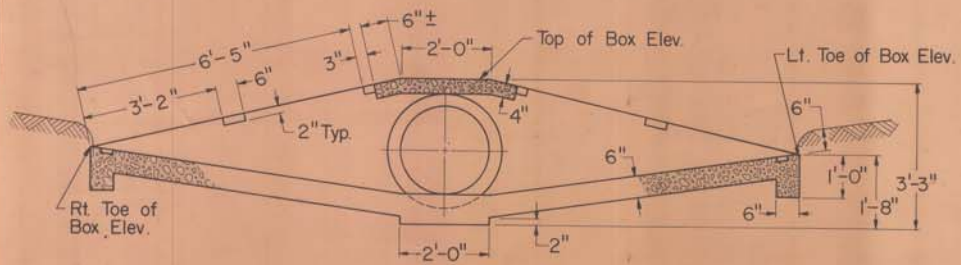
16. IF THE CONTRACTOR DESIRES TO DEVIATE FROM THE TRAFFIC CONTROL SCHEME AND CONSTRUCTION SCHEDULE AS OUTLINED IN THE PROJECT MAINTAIN OF TRAFFIC PLAN, HE/SHE SHALL PREPARE AN ALTERNATE PLAN AND PRESENT IT IN WRITING TO THE ENGINEER. THIS ALTERNATE PLAN CAN BE USED ONLY AFTER REVIEWED AND APPROVED BY THE DIVISION OF TRAFFIC, DESIGN AND CONSTRUCTION AND THE FEDERAL HIGHWAY ADMINISTRATION, AND OTHER AGENCIES WHERE APPLICABLE.

17. ALL CONSTRUCTION WORKS AT THE DAWAHARE DRIVE/KY 80 INTERSECTION SHALL BE LIMITED TO BETWEEN 7:00 P.M. TO 6:00 A.M., UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

18. CONSTRUCTION WORKS AT THE VILLAGE LANE/KY 80 AND DAWAHARE DRIVE/KY 80 INTERSECTIONS CANNOT BE PERFORMED SIMULTANEOUSLY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



PLAN



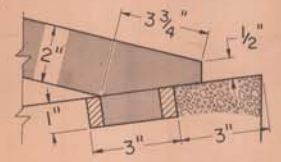
SECTION A-A

NOTES

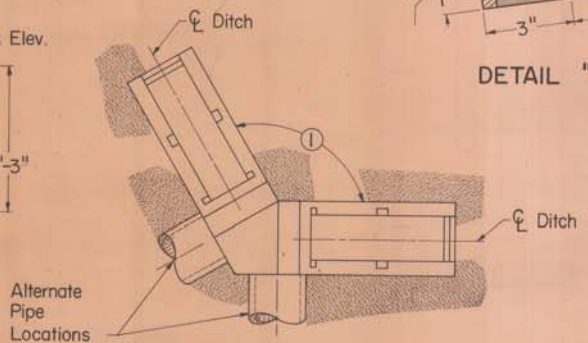
① Angle between box walls may vary to fit existing field conditions.

② Toe of box shall be raised or lowered to fit existing field conditions.

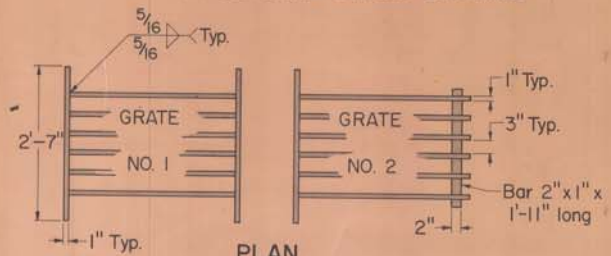
The unit price bid for each structure shall include all concrete, structural steel grating, excavation, labor and incidentals necessary for its construction as detailed on this sheet.



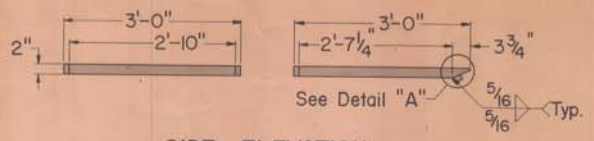
DETAIL "A"



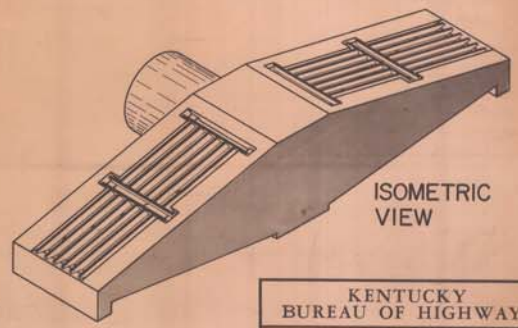
DETAIL OF STRUCTURAL STEEL GRATING



PLAN



SIDE ELEVATION



ISOMETRIC VIEW

APPROXIMATE QUANTITIES			
CLASS "A" CONC.	GRATE	LBS. STRUCTURAL STEEL	
CU. YDS.	NO.	EACH GRATE	TOTAL
2.07	1	145	596
	2	153	

KENTUCKY
BUREAU OF HIGHWAYS

DOUBLE SAFETY TYPE BOX INLET
(18" and 24" SDB-5)

SUBMITTED _____ DIRECTOR DIVISION OF DESIGN _____ DATE

APPROVED _____ STATE HIGHWAY ENGINEER _____ DATE

DRAWN WGH 4/85
CHECKED
RECOMMENDED
APPROVED HWA

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
		T/

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-1	48	60		R4_6	RIGHT	EAST	HAL ROG PKWY	STA. 3136+04
S-2	48	60			RIGHT	EAST	HAL ROG PKWY	STA. 3141+24
S-3	48	48		W8_6	RIGHT	EAST	HAL ROG PKWY	STA. 3164+08
S-								
S-5	48	48		W4_2 (OPPOSITE OF TRAFFIC FLOW)	RIGHT	WEST	HAL ROG PKWY	STA. 3170+78
S-6	48	48		W9_2L (OPPOSITE OF TRAFFIC FLOW)	RIGHT	WEST	HAL ROG PKWY	STA. 3173+26
S-7	12	36		D10_2	RIGHT	EAST	HAL ROG PKWY	STA. 3173+26
				(MOUNTED ON SAME SIGN POSTS)				

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-								
S-9	60	30			RIGHT	EAST	HAL ROG PKWY	STA. 3179+50
S-10	40	20			RIGHT	EAST	HAL ROG PKWY	STA. 3181+15
S-11	48	48		W3-3 REPLACE SIGN ONLY	RIGHT	EAST	HAL ROG PWKY	STA. 3182+35
S-12	24	8		D3-1	RIGHT	EAST	HAL ROG PKWY	STA. 3187+37
S-13	48	36		R8-7	RIGHT	EAST	HAL ROG PKWY	STA. 3190+58
S-23	48	36			RIGHT	EAST	HAL ROG PKWY	STA. 3200+72
S-34	48	36			RIGHT	EAST	HAL ROG PKWY	STA. 3209+13

SHEET SIGN DETAIL SHEET
HAL ROGERS PARKWAY EASTBOUND

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
		T2

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-14	24	30			RIGHT	EAST	HAL ROG PKWY	STA. 3195+57
S-19	24	30			RIGHT	EAST	HAL ROG PKWY	STA. 3199+32
S-35	24	30			RIGHT	EAST	HAL ROG PKWY	STA. 3199+32
S-								
S-15	24	30		R3-9B	RIGHT	EAST	HAL ROG PKWY	STA. 3197+07
S-								
S-17 A	21	15		M2-1	RIGHT	EAST	HAL ROG PKWY	STA. 3198+71
S-17 B	30	24		M-1-S-3	RIGHT	EAST	HAL ROG PKWY	STA. 3198+71
S-18	48	48		W3-3	RIGHT	EAST	HAL ROG PKWY	STA. 3199+06

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-20	40	20			RIGHT	EAST	HAL ROG PKWY	STA. 3199+32
S-21	30	30		R1-1	RIGHT	EAST	ENT	CAR DEALERSHIP ENT
S-22	24	24		R3-2	RIGHT	EAST	ENT	CAR DEALERSHIP ENT
S-24	60	30		(MOUNTED ON SAME POST)	RIGHT	EAST	HAL ROG PKWY	STA. 3201+71
S-25	40	20			RIGHT	EAST	HAL ROG PKWY	STA. 3201+71
S-26	24	24		D9-2	RIGHT	EAST	HAL ROG PKWY	STA. 3202+60
S-27	24	6		M6-1	RIGHT	EAST	HAL ROG PKWY	STA. 3202+60
S-28	40	20			RIGHT	EAST	HAL ROG PKWY	STA. 3202+60
				(MOUNTED ON SAME POST)				
S-29	30	24		M1-S-3	RIGHT	EAST	HAL ROG PKWY	STA. 3202+75
S-30	21	15		W1-6	RIGHT	EAST	HAL ROG PKWY	STA. 3202+75

SHEET SIGN DETAIL SHEET
HAL ROGERS PARKWAY EASTBOUND

FILE NAME: C:\PWWORK\MIN.JIANG\D0096321\SIGNS.DGN
USER: Min.Jiang
DATE PLOTTED: June 2, 2014
E-SHEET NAME:
MicroStation v8.11.7.443

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
		T3

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-31	24	30		R8-3	RIGHT	EAST	HAL ROG PKWY	STA. 3202+98
S-32	48	24			RIGHT	EAST	HAL ROG PKWY	STA. 3203+36
S-32 A	48	24			RIGHT	EAST	HAL ROG PKWY	STA. 3206+10
S-33	36	36		R1-2	RIGHT	EAST	HAL ROG PKWY	STA. 3206+15
S-36	72	44			RIGHT	EAST	HAL ROG PKWY	STA. 3211+21
S-37	72	44			RIGHT	EAST	HAL ROG PKWY	STA. 3213+50
S-38	72	15			RIGHT	EAST	HAL ROG PKWY	STA. 3213+50
S-39	36	24		(MOUNTED ON SAME POST)	RIGHT	EAST	HAL ROG PKWY	STA. 3213+50
S-40	36	36		W8-14	RIGHT	EAST	HAL ROG PKWY	STA. 3213+68

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-								
S-42	12	36		D10-2	RIGHT	EAST	HAL ROG PKWY	STA. 3219+60
S-43	48	48		W8-13 (REPLACE EXISTING SIGN "BRIDGE FREEZES BEFORE ROAD")	RIGHT	EAST	HAL ROG PKWY	STA. 3222+40
S-44	24	12		M3-2	RIGHT	EAST	HAL ROG PKWY	STA. 3223+50
S-45	40	40		M1-S-2	RIGHT	EAST	HAL ROG PKWY	STA. 3223+50
S-46	48	24			RIGHT	EAST	HAL ROG PKWY	ON BRIDGE END
								(OVER KY 15)
S-								

SHEET SIGN DETAIL SHEET
HAL ROGERS PARKWAY EASTBOUND

FILE NAME: C:\PWWORK\MIN.JIANG\D0096321\SIGNS.DGN
USER: MIn.Jiang
DATE PLOTTED: June 2, 2014
E-SHEET NAME:
MicroStation v8.11.7.443

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
		T-4

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-101	24	12		M3-4	LEFT	WEST	HAL ROG PKWY	STA. 3220+54
S-102	36	30			LEFT	WEST	HAL ROG PKWY	STA. 3220+54
S-103	12	36		D10-2	LEFT	WEST	HAL ROG PKWY	STA. 3220+54
S-104	36	36		W4-1	LEFT	WEST	HAL ROG PKWY	STA. 3215+78
S-104 A	30	30	R3-7R M2-1  M-1-S-3	R3-7R	LEFT	WEST	HAL ROG PKWY	STA. 3214+85
S-104 B1	21	15		M2-1	LEFT	WEST	HAL ROG PKWY	STA. 3214+85
S-104 B2	30	24		M-1-S-3	LEFT	WEST	HAL ROG PKWY	STA. 3214+85
S-104 C	48	48		W3-3	LEFT	WEST	HAL ROG PKWY	STA. 3213+65
S-104 D	48	24			LEFT	WEST	HAL ROG PKWY	STA. 3212+50
S-104 E	48	24			LEFT	WEST	HAL ROG PKWY	STA. 3212+50
S-104F	24	12			LEFT	WEST	HAL ROG PKWY	STA. 3211+35
S-104G	36	30						STA. 3211+35
S-104 H	48	36		R8-7	LEFT	WEST	HAL ROG PKWY	STA. 3210+75
S-104 I	40	20			LEFT	WEST	HAL ROG PKWY	STA. 3210+25
S-104 J	40	20			LEFT	WEST	HAL ROG PKWY	STA. 3210+25
S-104 K	40	20			LEFT	WEST	HAL ROG PKWY	STA. 3209+50
S-104 L	48	60			LEFT	WEST	HAL ROG PKWY	STA. 3209+00
S-104 M	30	24		M-1-S-3	LEFT	WEST	HAL ROG PKWY	STA. 3208+50
S-104 N	21	15		W1-6	LEFT	WEST	HAL ROG PKWY	STA. 3208+50

SHEET SIGN DETAIL SHEET
HAL ROGERS PARKWAY WESTBOUND

FILE NAME: C:\PWWORK\MIN.JIANG\D0963121\SIGNS.DGN
USER: Min.Jiang
DATE PLOTTED: June 2, 2014
E-SHEET NAME:
MicroStation v8.11.7.443

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
		TS

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-104 0	36	36		R1-2	LEFT	WEST	HAL ROG PKWY	STA. 3208+15
S-105	24	30			LEFT	WEST	HAL ROG PKWY	STA. 3205+26
S-106	24	30			LEFT	WEST	HAL ROG PKWY	STA. 3202+37
S-109	24	30			LEFT	WEST	HAL ROG PKWY	STA. 3198+99
S-112	24	30			LEFT	WEST	HAL ROG PKWY	STA. 3195+80
S-115	24	30			LEFT	WEST	HAL ROG PKWY	STA. 3191+65
S-116	24	30			LEFT	WEST	HAL ROG PKWY	STA. 3189+75
S-107	48	36		R8-7	LEFT	WEST	HAL ROG PKWY	3199+84
S-108	48	48		W3-3A (OPPOSITE OF TRAFFIC FLOW)	LEFT	EAST	HAL ROG PKWY	3198+99
S-110	24	30		R3-9B	LEFT	WEST	HAL ROG PKWY	3196+97
S-111	40	20			LEFT	WEST	HAL ROG PKWY	3196+71

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-113	48	48		W3-3	LEFT	WEST	HAL ROG PKWY	3194+83
S-114	60	30			LEFT	WEST	HAL ROG PKWY	3193+66
S-117	48	48			LEFT	WEST	HAL ROG PKWY	3185+88
S-118	60	24			LEFT	WEST	HAL ROG PWKY	3185+88
S-119	48	48		W8-6	LEFT	WEST	HAL ROG PKWY	3183+42
S-120	48	60		R2-1	LEFT	WEST	HAL ROG PKWY	3181+57
S-121	16	8		D3-1	LEFT	WET	HAL ROG PKWY	3175+20

SHEET SIGN DETAIL SHEET
HAL ROGERS PARKWAY WESTBOUND

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
		T6

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-122	48	48		W9-2L	LEFT	WEST	HAL ROG PKWY	3173+16
S-123	12	36		D10-2	LEFT	WEST	HAL ROG PKWY	3173+16
				MOUNTED ON SAME POST)				
S-124	48	48		W4-2	LEFT	WEST	HAL ROG PKWY	3172+75
S-125	48	60		D12-5	LEFT	WEST	HAL ROG PKWY	3160+74
S-126	48	48						3140+15
				(REPLACE EXISTING SIGN				
				"BRIDGE FREEZES BEFORE ROAD")				
S-								
S-128	48	24			LEFT	WEST	HAL ROG PKWY	BRIDGE END
								(OVER NORTH FORK
								OF KY RIVER)

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-129	12	36		OM3-R	LEFT	WEST	HAL ROG PKWY	BRIDGE END
								(OVER NORTH FORK
								OF KY RIVER)
S-								
S-								
S-								
S-								
S-								

SHEET SIGN DETAIL SHEET
HAL ROGERS PARKWAY WESTBOUND

PART II

SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to previous editions of the *Standard Specifications for Road and Bridge Construction* and *Standard Drawings* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2012* and *Standard Drawings, Edition of 2012 with the 2012 Revision.*

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:	108.03 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.
Subsection:	112.04.18 Diversions (By-Pass Detours).
Revision:	Insert the following sentence after the 2nd sentence of this subsection. The Department will not measure temporary drainage structures for payment when the contract documents provide the required drainage opening that must be maintained with the diversion. The temporary drainage structures shall be incidental to the construction of the diversion. If the contract documents fail to provide the required drainage opening needed for the diversion, the cost of the temporary drainage structure will be handled as extra work in accordance with section 109.04.
Subsection:	201.03.01 Contractor Staking.
Revision:	Replace the first paragraph with the following: Perform all necessary surveying under the general supervision of a Professional Engineer or Land Surveyor licensed in the Commonwealth of Kentucky.

Subsection: **Revision:**	201.04.01 Contractor Staking. Replace the last sentence of the paragraph with the following: Complete the general layout of the project under the supervision of a Professional Engineer or Land Surveyor licensed in the Commonwealth of Kentucky.
Subsection: **Revision:**	206.04.01 Embankment-in-Place. Replace the fourth paragraph with the following: The Department will not measure **suitable** excavation included in the original plans that is disposed of for payment and will consider it incidental to Embankment-in-Place.
Subsection: **Revision:**	208.02.01 Cement. Replace paragraph with the following: Select Type I or Type II cement conforming to Section 801. Use the same type cement throughout the work.
Subsection: **Revision:**	208.03.06 Curing and Protection. Replace the fourth paragraph with the following: Do not allow traffic or equipment on the finished surface until the stabilized subgrade has cured for a total of 7-days with an ambient air temperature above 40 degrees Fahrenheit. A curing day consists of a continuous 24-hour period in which the ambient air temperature does not fall below 40 degrees Fahrenheit. Curing days will not be calculated consecutively, but must total seven (7) , 24-hour days with the ambient air temperature remaining at or above 40 degrees Fahrenheit before traffic or equipment will be allowed to traverse the stabilized subgrade. The Department may allow a shortened curing period when the Contractor requests. The Contractor shall give the 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 furnish cores to the treated depth of the roadbed at 500 feet intervals for each lane when a shortened curing time is requested. The Department will test cores using an unconfined compression test. Roadbed cores must achieve a minimum strength requirement of 80 psi.
Subsection: **Revision:**	208.03.06 Curing and Protection. Replace paragraph nine with the following: At no expense to the Department, repair any damage to the subgrade caused by freezing.
Subsection: **Part:** **Revision:**	212.03.03 Permanent Seeding and Protection. A) Seed Mixtures for Permanent Seeding. 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: **Part:** **Number:** **Revision:**	212.03.03 Permanent Seeding and Protection. A) Seed Mixtures for Permanent Seeding. 2) 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.

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.
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	D) Fertilizer.
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 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.
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	D) Fertilizer.
Revision:	Delete the second paragraph.
Subsection:	212.04.04 Agricultural Limestone.
Revision:	Replace the entire section with the following: The Department will measure the quantity of agricultural limestone in tons.
Subsection:	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 last sentence of the third paragraph with the following: Additionally, the Department will apply a penalty equal to the liquidated damages when all aspects of the work are not coordinated in an acceptable manner within 7 calendar days after written notification.
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.
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.
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
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:	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 characteristics:
Subsection:	412.02.09 Material Transfer Vehicle (MTV).
Revision:	Replace the paragraph with the following: Provide and utilize a MTV with the minimum characteristics outlined in section 403.02.10.
Subsection:	412.03.07 Placement and Compaction.
Revision:	Replace the first paragraph with the following: Use a MTV when placing SMA mixture in the driving lanes. The MTV is not required on ramps and/or shoulders unless specified in the contract. When the Engineer determines the use of the MTV is not practical for a portion of the project, the 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: 412.04.03. Material Transfer Vehicle (MTV). The Department will not measure the MTV for payment and will consider its use incidental to the asphalt mixture.

Subsection: **Part:** **Revision:**	501.03.19 Surface Tolerances and Testing Surface. B) Ride Quality. Add the following to the end of the first paragraph: The Department will specify if the ride quality requirements are Category A or Category B when ride quality is specified in the Contract. Category B ride quality requirements shall apply when the Department fails to classify which ride quality requirement will apply to the Contract.
Subsection: **Revision:**	603.03.06 Cofferdams. 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: **Revision:**	605.03.04 Tack Welding. Insert the subsection and the following: 605.03.04 Tack Welding. The Department does not allow tack welding.
Subsection: **Part:** **Number:** **Revision:**	606.03.17 Special Requirements for Latex Concrete Overlays. A) Existing Bridges and New Structures. 1) Prewetting and Grout-Bond Coat. Add the following sentence to the last paragraph: Do not apply a grout-bond coat on bridge decks prepared by hydrodemolition.
Subsection: **Revision:**	609.03 Construction. 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: **Revision:**	611.03.02 Precast Unit Construction. 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: **Number:** **Revision:**	613.03.01 Design. 2) Replace "AASHTO Standard Specifications for Highway Bridges" with "AASHTO LRFD Bridge Design Specifications"
Subsection: **Revision:**	615.06.02 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 ¾ inch.
Subsection: **Revision:**	615.06.03 Placement of Reinforcement in Precast 3-Sided Units. Replace the reference of 6.6 in the section to 615.06.06.

Subsection:	615.06.04 Placement of Reinforcement for Precast Endwalls.
Revision:	Replace the reference of 6.7 in the section to 615.06.07.
Subsection:	615.06.06 Laps, Welds, and Spacing for Precast 3-Sided Units.
Revision:	Replace the subsection with the following: Tension splices in the circumferential reinforcement shall be made by lapping. Laps may not be tack welded together for assembly purposes. For smooth welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.2 and AASHTO 2012 Bridge Design Guide Section 5.11.6.3. For deformed welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.1 and AASHTO 2012 Bridge Design Guide Section 5.11.6.2. The overlap of welded wire fabric shall be measured between the outer most longitudinal wires of each fabric sheet. For deformed billet-steel bars, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.1. For splices other than tension splices, the overlap shall be a minimum of 12" for welded wire fabric or deformed billet-steel bars. The spacing center to center of the circumferential wires in a wire fabric sheet shall be no less than 2 inches and no more than 4 inches. The spacing center to center of the longitudinal wires shall not be more than 8 inches. The spacing center to center of the longitudinal distribution steel for either line of reinforcing in the top slab shall be not more than 16 inches.
Subsection:	615.06.07 Laps, Welds, and Spacing for Precast Endwalls.
Revision:	Replace the subsection with the following: Splices in the reinforcement shall be made by lapping. Laps may not be tack welded together for assembly purposes. For smooth welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.2 and AASHTO 2012 Bridge Design Guide Section 5.11.6.3. For deformed welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.1 and AASHTO 2012 Bridge Design Guide Section 5.11.6.2. For deformed billet-steel bars, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.1. The spacing center-to-center of the wire fabric sheet shall not be less than 2 inches or more than 8 inches.
Subsection:	615.08.01 Type of Test Specimen.
Revision:	Replace the subsection with the following: Start-up slump, air content, unit weight, and temperature tests will be performed each day on the first batch of concrete. Acceptable start-up results are required for production of the first unit. After the first unit has been established, random acceptance testing is performed daily for each 50 yd^3 (or fraction thereof). In addition to the slump, air content, unit weight, and temperature tests, a minimum of one set of cylinders shall be required each time plastic property testing is performed.
Subsection:	615.08.02 Compression Testing.
Revision:	Delete the second sentence.
Subsection:	615.08.04 Acceptability of Core Tests.
Revision:	Delete the entire subsection.

Subsection: **Revision:**	615.12 Inspection. Add the following sentences to the end of the subsection: Units will arrive at jobsite with the "Kentucky Oval" stamped on the unit which is an indication of acceptable inspection at the production facility. Units shall be inspected upon arrival for any evidence of damage resulting from transport to the jobsite.
Subsection: **Revision:**	716.02.02 Paint. Replace sentence with the following: Conform to Section 821.
Subsection: **Revision:**	716.03 CONSTRUCTION. 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: **Revision:**	716.03.02 Lighting Standard Installation. Replace the second sentence 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.
Subsection: **Part:** **Revision:**	716.03.02 Lighting Standard Installation. A) Conventional Installation. 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: **Part:** **Number:** **Revision:**	716.03.02 Lighting Standard Installation. A) Conventional Installation. 1) Breakaway Installation and Requirements. 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, and Traffic Signals, 2013-6th Edition with current interims.
Subsection: **Part:** **Revision:**	716.03.02 Lighting Standard Installation. B) High Mast Installation Replace the first sentence with the following: Install each high mast pole as noted on plans.
Subsection: **Part:** **Number:** **Revision:**	716.03.02 Lighting Standard Installation. B) High Mast Installation 2) Concrete Base Installation Modification of Chart and succeeding paragraphs within this section:

Drilled Shaft Depth Data							
Level Ground		3:1 Ground Slope		2:1 Ground Slope		1.5:1 Ground Slope (2)	
Soil	Rock	Soil	Rock	Soil	Rock	Soil	Rock
17 ft	7 ft	19 ft	7 ft	20 ft	7 ft	(1)	7 ft

Steel Requirements			
Vertical Bars		Ties or Spiral	
Size	Total	Size	Spacing or Pitch
#10	16	#4	12 inch

	(1): Shaft length is 22' for cohesive soil only. For cohesionless soil, contact geotechnical branch for design. (2): Do not construct high mast drilled shafts on ground slopes steeper than 1.5:1 without the approval of the Division of Traffic. 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 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 accordingly. 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 encountered. 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: **Part:** **Revision:**	716.03.03 Trenching. A) Trenching of Conduit for Highmast Ducted Cables. 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: **Part:** **Revision:**	716.03.03 Trenching. B) Trenching of Conduit for Non-Highmast Cables. 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. No payment for additional junction boxes for greater depths will be allowed.
Subsection: **Revision:**	716.03.10 Junction Boxes. Replace subsection title with the following: Electrical Junction Box.

Subsection:	716.04.07 Pole with Secondary 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 mounting the cabinet to the pole, backfilling, restoration, any necessary hardware to anchor pole, or electrical inspection fees, 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, and ground wires and will consider them incidental to this item of work.
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 constructing the concrete base, excavation, backfilling, restoration, any necessary anchors, or electrical inspection fees, 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, and ground wires and will consider them incidental to this item of work.
Subsection:	716.04.09 Luminaire.
Revision:	Replace the first sentence with the following: The Department will measure the quantity as each individual unit furnished and installed.
Subsection:	716.04.10 Fused Connector Kits.
Revision:	Replace the first sentence 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 Junction Box.
Part:	A) Junction Electrical.
Revision:	Rename A) Junction Electrical to the following: A) Electrical Junction Box.
Subsection:	716.04.14 Trenching and Backfilling.
Revision:	Replace the second sentence with the following: The Department will not measure excavation, backfilling, underground utility warning tape (if required), the restoration of disturbed areas to original condition, 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 as a lump sum for the removal of lighting equipment. The Department will not measure the disposal of all equipment and materials off the project by the contractor. The Department also will not measure the transportation of the materials and will consider them incidental to this item of work.

Subsection:	716.04.20 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. Construction methods shall be in accordance with Sections 706.03.02, paragraphs 1, 2, and 4.
Subsection:	716.05 PAYMENT.
Revision:	Replace items 04810-04811, 20391NS835 and, 20392NS835 under Code, Pay Item, and Pay Unit 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

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 first sentence 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.
Subsection:	723.03.02 Poles and Bases Installation.
Part:	A) Steel Strain and Mastarm Poles Installation
Revision:	Replace the second paragraph with the following: For concrete base installation, see Section 716.03.02, B), 2), Paragraphs 2-7. 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 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 Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.
Subsection:	723.03.03 Trenching.
Part:	A) Under Roadway.
Revision:	Add the following after the second sentence: If depths greater than 24 inches are necessary, obtain the Engineer's approval and maintain ether required conduit depths coming into the junction boxes. No payment for additional junction boxes for greater depths will be allowed.
Subsection:	723.03.11 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:	Replace the fifth sentence 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:	723.04.02 Junction Box.
Revision:	Replace subsection title with the following: Electrical Junction Box Type Various.
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 (if required), the restoration of disturbed areas to original condition, and will consider them incidental to this item of work.
Subsection:	723.04.10 Signal Pedestal.
Revision:	Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, specified conduits, fittings, ground rod, ground wire, backfilling, restoring disturbed areas, or other necessary hardware and will consider them incidental to this item of work.
Subsection:	723.04.15 Loop Saw Slot and Fill.
Revision:	Replace the second sentence with the following: The Department will not measure sawing, cleaning and filling induction loop saw slot, loop sealant, backer rod, and grout and will consider them incidental to this item of work.
Subsection:	723.04.16 Pedestrian Detector.
Revision:	Replace the paragraph 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 (with arrow) sign, furnishing and installing mounting hardware for sign and will consider them incidental to this item of work.
Subsection:	723.04.18 Signal Controller- Type 170.
Revision:	Replace the second sentence with the following: The Department will not measure constructing the concrete base or mounting the cabinet to the pole, connecting the signal and detectors, excavation, backfilling, restoration, any necessary pole mounting hardware, electric service, or electrical inspection fees 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; furnishing and installing electrical service conductors, specified conduits, anchors, meter base, fused cutout, fuses, ground rods, ground wires and will consider them incidental to this item of work.
Subsection:	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 constructing the concrete base or mounting the cabinet to the pole, connecting the signal and detectors, and excavation, backfilling, restoration, any necessary pole mounting hardware, electric service, or electrical inspection fees 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; furnishing and installing electrical service conductors, specified conduits, anchors, meter base, fused cutout, fuses, ground rods, ground wires 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 as a lump sum removal of signal equipment. The Department will not measure the return of control equipment and signal heads to the Department of Highways as directed by the District Traffic Engineer. The Department also will not measure the transportation of materials of the disposal of all other equipment and materials off the project by the contractor and will consider them incidental to this item of work.
Subsection: **Revision:**	723.04.28 Install Pedestrian Detector Audible. Replace the second sentence with the following: The Department will not measure installing sign R10-3e (with arrow) and will consider it incidental to this item of work.
Subsection: **Revision:**	723.04.29 Audible Pedestrian Detector. Replace the second sentence with the following: The Department will not measure furnishing and installing the sign R10-3e (with arrow) and will consider it incidental to this item of work.
Subsection: **Revision:**	723.04.30 Bore and Jack Conduit. 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. Construction methods shall be in accordance with Sections 706.03.02, paragraphs 1, 2, and 4.
Subsection: **Revision:**	723.04.31 Install Pedestrian Detector. 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 sign R 10-3e (with arrow) and will consider it incidental to this item of work.
Subsection: **Revision:**	723.04.32 Install Mast Arm Pole. Replace the second sentence with the following: The Department will not measure arms, signal mounting brackets, anchor bolts, or any other necessary hardware and will consider them incidental to this item of work.
Subsection: **Revision:**	723.04.33 Pedestal Post. Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, conduit, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.
Subsection: **Revision:**	723.04.36 Traffic Signal Pole Base. Replace the second sentence with the following: The Department will not measure excavation, reinforcing steel, anchor bolts, specified conduits, ground rods, ground wires, backfilling, or restoration and will consider them incidental to this item of work.
Subsection: **Revision:**	723.04.37 Install Signal Pedestal. Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, specified conduits, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.

Subsection:	723.04.38 Install Pedestal Post.
Revision:	Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, specified conduits, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.
Subsection:	723.05 PAYMENT.
Revision:	Replace items 04810-04811, 20391NS835 and, 20392NS835 under Code, Pay Item, and Pay Unit 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

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:	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.
Subsection:	814.04.02 Timber Guardrail Posts.
Revision:	Third paragraph, replace the reference to "AWPA C14" with "AWPA U1, Section B, Paragraph 4.1".
Subsection:	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.
Subsection:	814.04.02 Timber Guardrail Posts.
Revision:	Fourth paragraph, replace the reference to "AWPA C2" with "AWPA U1, Section B, Paragraph 4.1".
Subsection:	814.04.02 Timber Guardrail Posts.
Revision:	Delete the second sentence of the fourth paragraph.

Subsection: **Revision:**	814.05.02 Composite Plastic. 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.
Subsection: **Revision:**	816.07.02 Wood Posts and Braces. First paragraph, replace the reference to "AWPA C5" with "AWPA U1, Section B, Paragraph 4.1".
Subsection: **Revision:**	816.07.02 Wood Posts and Braces. Delete the second sentence of the first paragraph.
Subsection: **Revision:**	818.07 Preservative Treatment. First paragraph, replace all references to "AWPA C14" with "AWPA U1, Section A".
Subsection: **Revision:**	834.14 Lighting Poles. Replace the first sentence with the following: Lighting pole design shall be in accordance with loading 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: **Revision:**	834.14.03 High Mast Poles. *Remove the second and fourth sentence from the first paragraph. *Replace the third paragraph with the following: Provide calculations and drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky. *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 strength 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 welded tube butt splices and laminated tubes are not permitted. Provide pole sections that are telescopically 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 opening of the handhole shall not be less than the diameter of the bottom tube of the pole but needs to be at least 15 inches. Provide products that are hot-dip galvanized to the requirements of either ASTM A123 (fabricated products) or ASTM A 153 (hardware items).
Subsection: **Revision:**	834.16 ANCHOR BOLTS. Insert 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.
Subsection: **Revision:**	834.17.01 Conventional. Add the following sentence after the second sentence: Provide a waterproof sticker mounted on 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.

Subsection: **Revision:**	834.21.01 Waterproof Enclosures. 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 corbin 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: **Revision:**	835.07 Traffic Poles. 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: **Revision:**	835.07 Traffic Poles. *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:**	835.07 Traffic Poles. 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 bolt regardless of the actual anchor bolt orientation with the pole.
Subsection: **Revision:**	835.07 Traffic Poles. 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.

Subsection:	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 Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.
Subsection:	835.07.01 Steel Strain Poles.
Revision:	Replace the second sentence of the second paragraph with the following: The detailed analysis shall be certified by a Professional Engineer licensed in the Commonwealth of Kentucky.
Subsection:	835.07.01 Steel Strain Poles.
Revision:	Replace number 7. after the second 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:	835.07.02 Mast Arm Poles.
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:	835.07.02 Mast Arm Poles.
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:

Property	Minimum Value[(1)]	Test Method
CBR Puncture (lbs)	494	ASTM D6241
Permittivity (1/s)	0.7	ASTM D4491

Subsection: 843.01.01 Geotextile Fabric.
Table: TYPE II FABRIC GEOTEXTILES FOR UNDERDRAINS
Revision: Add the following to the chart:

Property	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:

Property	Minimum Value[1]	Test Method
CBR Puncture (lbs)	618	ASTM D6241
Grab Strength (lbs)	700	ASTM D4632
Apparent Opening Size	U.S. #40[3]	ASTM D4751

[3] Maximum average roll value.

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SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

This Special Note will apply when indicated on the plans or in the proposal.

1.0 DESCRIPTION. Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer. Remove and retain possession of variable message signs when they are no longer needed on the project.

2.0 MATERIALS.

2.1 General. Use LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

2.2 Sign and Controls. All signs must:

1) Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
2) Provide at least 40 preprogrammed messages available for use at any time. Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
3) Provide a controller consisting of:
   a) Keyboard or keypad.
   b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
   c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
   d) Logic circuitry to control the sequence of messages and flash rate.
4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
6) Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
7) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
8) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
9) Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.
10) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.
11) Provide a photocell control to provide automatic dimming.

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12) Allow an on-off flashing sequence at an adjustable rate.
13) Provide a sight to aim the message.
14) Provide a LED display color of approximately 590 nm amber.
15) Provide a controller that is password protected.
16) Provide a security device that prevents unauthorized individuals from accessing the controller.
17) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

/KEEP/RIGHT/⇒⇒⇒/
/KEEP/LEFT/⇐⇐⇐/
/LOOSE/GRAVEL/AHEAD/
/RD WORK/NEXT/**MILES/
/TWO WAY/TRAFFIC/AHEAD/
/PAINT/CREW/AHEAD/
/REDUCE/SPEED/**MPH/
/BRIDGE/WORK/***0 FT/
/MAX/SPEED/**MPH/
/SURVEY/PARTY/AHEAD/
/MIN/SPEED/**MPH/
/ICY/BRIDGE/AHEAD/ /ONE LANE/BRIDGE/AHEAD/
/ROUGH/ROAD/AHEAD/
/MERGING/TRAFFIC/AHEAD/
/NEXT/***/MILES/
/HEAVY/TRAFFIC/AHEAD/
/SPEED/LIMIT/**MPH/
/BUMP/AHEAD/
/TWO/WAY/TRAFFIC/

*Insert numerals as directed by the Engineer.
Add other messages during the project when required by the Engineer.

2.3 Power.

1) Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.

3.0 CONSTRUCTION. Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater.

Maintain the sign in proper working order, including repair of any damage done by others, until completion of the project. When the sign becomes inoperative, immediately repair or replace the sign. Repetitive problems with the same unit will be cause for rejection and replacement.

Use only project related messages and messages directed by the Engineer, unnecessary messages lessen the impact of the sign. Ensure the message is displayed in either one or 2 phases with each phase having no more than 3 lines of text. When no message is needed, but it is necessary to know if the sign is operable, flash only a pixel.

When the sign is not needed, move it outside the clear zone or where the Engineer directs. Variable Message Signs are the property of the Contractor and shall be removed from the project when no longer needed. The Department will not assume ownership of these signs.

4.0 MEASUREMENT. The final quantity of Variable Message Sign will be

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the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

5.0 PAYMENT. The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

Code	Pay Item	Pay Unit
02671	Portable Changeable Message Sign	Each

Effective June 15, 2012

SPECIAL NOTE FOR BARCODE LABEL ON PERMANENT SIGNS

1.0 DESCRIPTION. Install barcode label on sign as specified in the Contract. Section references herein are to the Department's 2012 Standard Specifications for Road and Bridge Construction.

2.0 MATERIALS. The Department will provide the Contractor with a 2 inch x 1 inch foil barcode label for each permanent sign. A unique number will be assigned to each barcode label.

The Contractor shall contact the Operations and Pavement Management Branch in the Division of Maintenance at (502) 564-4556 to obtain the barcode labels.

3.0 CONSTRUCTION. Apply foil barcode label in the lower right quadrant of the sign back. Signs where the bottom edge is not parallel to the ground, the lowest corner of the sign shall serve as the location to place the barcode label. The barcode label shall be placed no less than one-inch and no more than three inches from any edge of the sign. The barcode must be placed so that the sign post does not cover the barcode label.

Barcodes shall be applied in an indoor setting with a minimum air temperature of 50°F or higher. Prior to application of the barcode label, the back of the sign must be clean and free of dust, oil, etc. If the sign is not clean, an alcohol swab shall be used to clean the area. The area must be allowed to dry prior to placement of the barcode label.

Data for each sign shall include the barcode number, MUTCD reference number, sheeting manufacturer, sheeting type, manufacture date, color of primary reflective surface, installation date, latitude and longitude using the North American Datum of 1983 (NAD83) or the State Plane Coordinates using an x and y ordinate of the installed location.

Data should be provided electronically on the TC 71-229 Sign Details Information and TC 71-230 Sign Assembly Information forms. The Contractor may choose to present the data in a different format provided that the information submitted to the Department is equivalent to the information required on the Department TC forms. The forms must be submitted in electronic format regardless of which type of form is used. The Department will not accept PDF or handwritten forms. These completed forms must be submitted to the Department prior to final inspection of the signs. The Department will not issue formal acceptance for the project until the TC 71-229 and TC-230 electronic forms are completed for all signs and sign assemblies on the project.

4.0 MEASUREMENT. The Department will measure all work required for the installation of the barcode label and all work associated with completion and submission of the sign inventory data (TC 71-229 and TC 71-230).

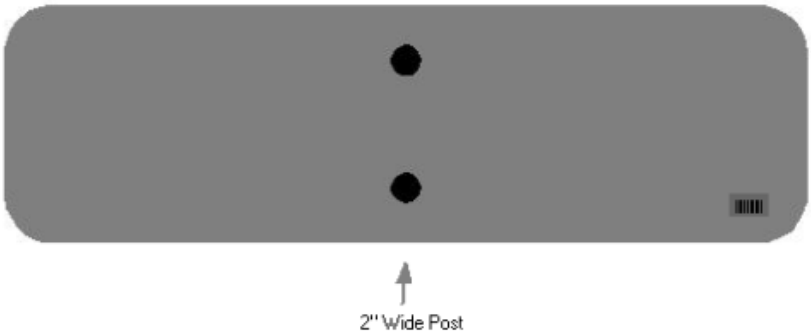
The installation of the permanent sign will be measured in accordance to Section 715.

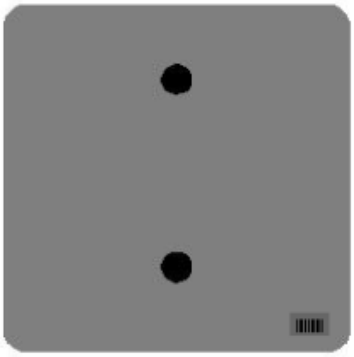
5.0 PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

Code	Pay Item	Pay Unit
24631EC	Barcode Sign Inventory	Each

The Department will not make payment for this item until all barcodes are installed and sign inventory is complete on every permanent sign installed on the project. The Department will make payment for installation of the permanent sign in accordance to Section 715. The Department will consider payment as full compensation for all work required under this special note.

One Sign Post





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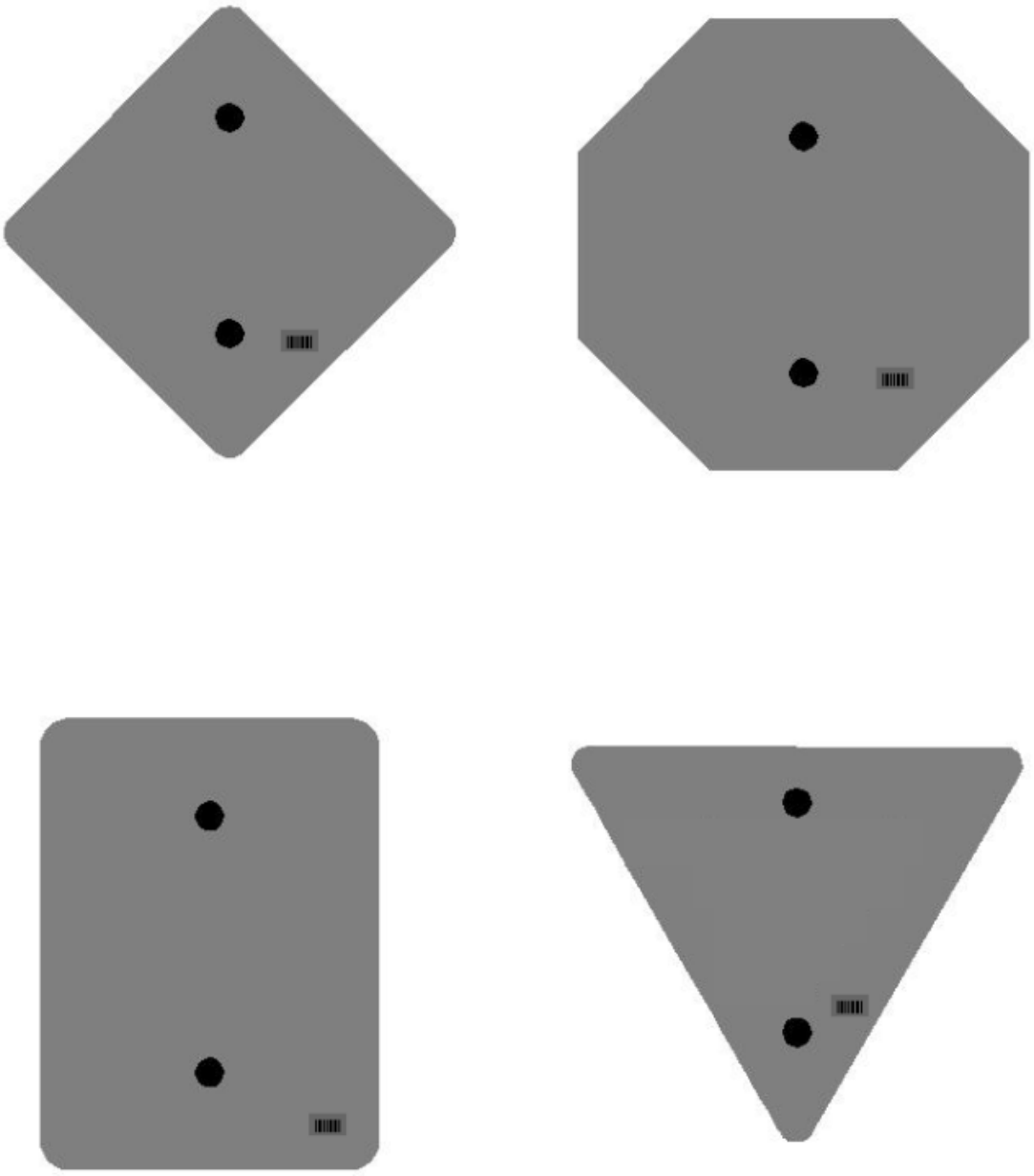

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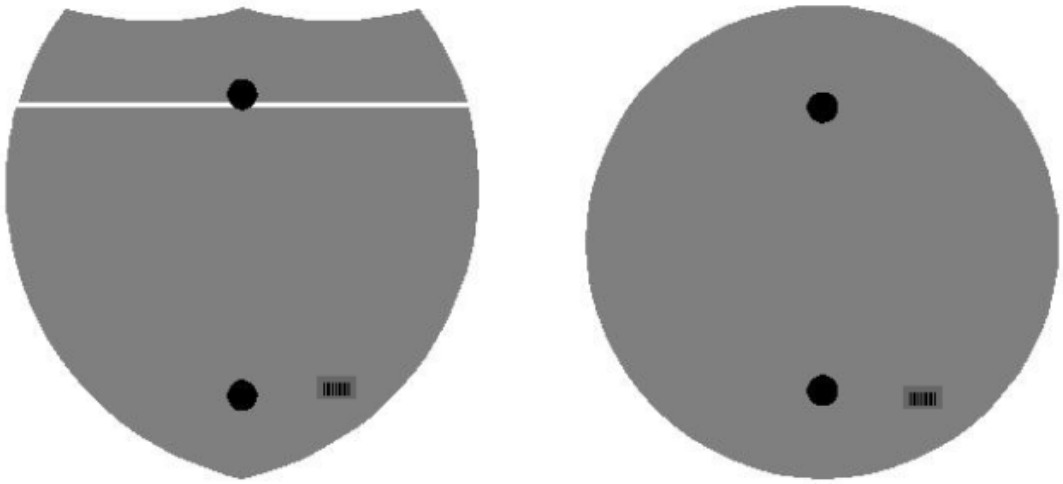
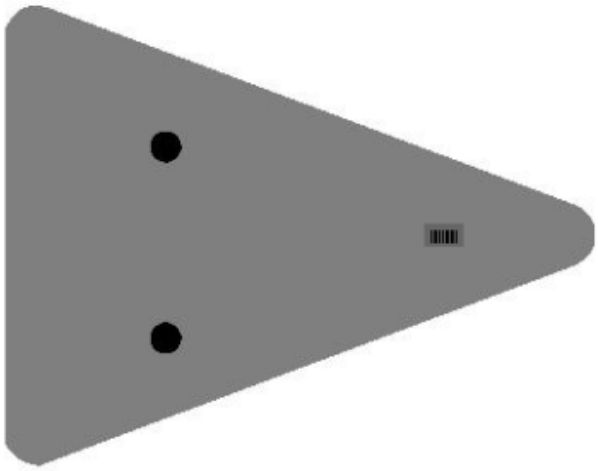
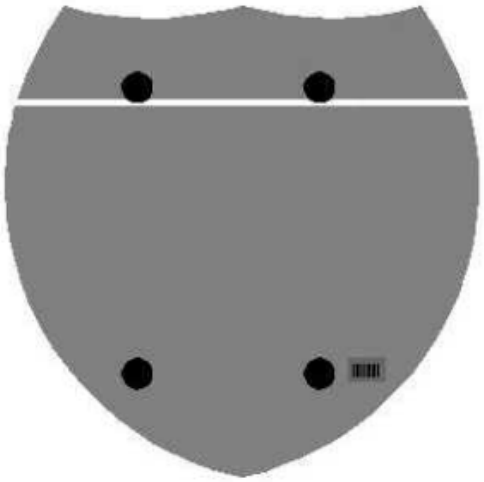
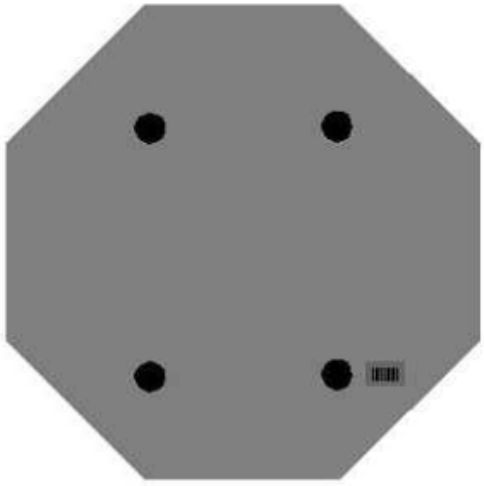




Double Sign Post

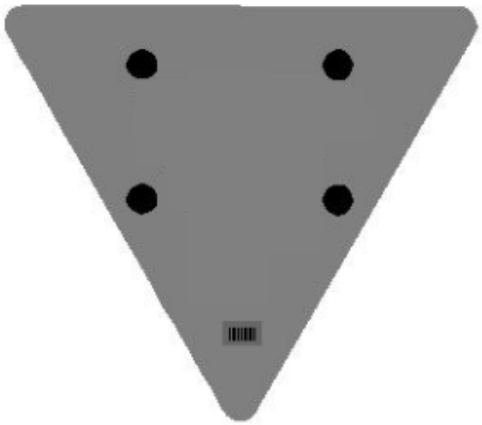


Interstate
Shield



48" Stop

2 Post Signs



PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS

LABOR AND WAGE REQUIREMENTS
APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS

I. APPLICATION

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.

3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

II. NONDISCRIMINATION OF EMPLOYEES

AN ACT OF THE KENTUCKY
GENERAL ASSEMBLY TO PREVENT
DISCRIMINATION IN EMPLOYMENT
KRS CHAPTER 344
EFFECTIVE JUNE 16, 1972

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy). The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, disability or age (between forty and seventy), except that such notice or advertisement may indicate a preference, limitation, or specification based on religion, or national origin when religion, or national origin is a bona fide occupational qualification for employment.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age (between forty and seventy), in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administrating agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

III. PAYMENT OF PREDETERMINED MINIMUM WAGES

1. These special provisions are supplemented elsewhere in the contract by special provisions which set forth certain predetermined minimum wage rates. The contractor shall pay not less than those rates.

2. The minimum wage determination schedule shall be posted by the contractor, in a manner prescribed by the Department of Highways, at the site of the work in prominent places where it can be easily seen by the workers.

IV. STATEMENTS AND PAYROLLS

1. All contractors and subcontractors affected by the terms of KRS 337.505 to 337.550 shall keep full and accurate payroll records covering all disbursements of wages to their employees to whom they are required to pay not less than the prevailing rate of wages. Payrolls and basic records relating thereto will be maintained during the course of the work and preserved for a period of one (1) year from the date of completion of this contract.

2. The payroll records shall contain the name, address and social security number of each employee, his correct classification, rate of pay, daily and weekly number of hours worked, itemized deductions made and actual wages paid.

3. The contractor shall make his daily records available at the project site for inspection by the State Department of Highways contracting office or his authorized representative.

Periodic investigations shall be conducted as required to assure compliance with the labor provisions of the contract. Interrogation of employees and officials of the contractor shall be permitted during working hours.

Aggrieved workers, Highway Managers, Assistant District Engineers, Resident Engineers and Project Engineers shall report all complaints and violations to the Division of Contract Procurement.

The contractor shall be notified in writing of apparent violations. The contractor may correct the reported violations and notify the Department of Highways of the action taken or may request an informal hearing. The request for hearing shall be in writing within ten (10) days after receipt of the notice of the reported violation. The contractor may submit

records and information which will aid in determining the true facts relating to the reported violations.

Any person or organization aggrieved by the action taken or the findings established as a result of an informal hearing by the Division of Contract Procurement may request a formal hearing.

4. The wages of labor shall be paid in legal tender of the United States, except that this condition will be considered satisfied if payment is made by a negotiable check, on a solvent bank, which may be cashed readily by the employee in the local community for the full amount, without discount or collection charges of any kind. Where checks are used for payments, the contractor shall make all necessary arrangements for them to be cashed and shall give information regarding such arrangements.

5. No fee of any kind shall be asked or accepted by the contractor or any of his agents from any person as a condition of employment on the project.

6. No laborers shall be charged for any tools used in performing their respective duties except for reasonably avoidable loss or damage thereto.

7. Every employee on the work covered by this contract shall be permitted to lodge, board, and trade where and with whom he elects and neither the contractor nor his agents, nor his employees shall directly or indirectly require as a condition of employment that an employee shall lodge, board or trade at a particular place or with a particular person.

8. Every employee on the project covered by this contract shall be an employee of either the prime contractor or an approved subcontractor.

9. No charge shall be made for any transportation furnished by the contractor or his agents to any person employed on the work.

10. No individual shall be employed as a laborer or mechanic on this contract except on a wage basis, but this shall not be construed to prohibit the rental of teams, trucks or other equipment from individuals.

No Covered employee may be employed on the work except in accordance with the classification set forth in the schedule mentioned above; provided, however, that in the event additional classifications are required, application shall be made by the contractor to the Department of Highways and (1) the Department shall request appropriate classifications and rates from the proper agency, or (2) if there is urgent need for additional classification to avoid undue delay in the work, the contractor may employ such workmen at rates deemed comparable to rates established for similar classifications provided he has made written application through the Department of Highways, addressed to the proper agency, for the supplemental rates. The contractor shall retroactively adjust, upon receipt of the supplemental rates schedule, the wages of any employee paid less than the established rate and may adjust the wages of any employee overpaid.

11. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic in any work-week in which he is employed on such work, to work in excess of eight hours in any calendar day or in excess of forty hours in such work-week unless such laborer or mechanic receives compensation at a rate not less than one and one half times his basic rate of pay for all hours worked in excess of eight hours in any calendar day or in excess of forty hours in such work-week. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. This agreement shall be in writing and shall be executed prior to the employee working in excess of eight (8) hours, but not more than ten (10) hours, in any one (1) calendar day.

12. Payments to the contractor may be suspended or withheld due to failure of the contractor to pay any laborer or mechanic employed or working on the site of the work, all or part of the wages required under the terms of the contract. The Department may suspend or withhold payments only after the contractor has been given written notice of the alleged violation and the contractor has failed to comply with the wage determination of the Department of Highways.

13. Contractors and subcontractors shall comply with the sections of Kentucky Revised Statutes, Chapter 337 relating to contracts for Public Works.

Revised 2-16-95

EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

> KRS 11A.040 (6) provides:
>
> No present or former public servant shall, within six (6) months of following termination of his office or employment, accept employment, compensation or other economic benefit from any person or business that contracts or does business with the state in matters in which he was directly involved during his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved in state government. This subsection shall not prohibit the performance of ministerial functions, including, but not limited to, filing tax returns, filing applications for permits or licenses, or filing incorporation papers.
>
> KRS 11A.040 (8) states:
>
> A former public servant shall not represent a person in a matter before a state agency in which the former public servant was directly involved, for a period of one (1) year after the latter of:
> a) The date of leaving office or termination of employment; or
> b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, Room 136, Capitol Building, 700 Capitol Avenue, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Kentucky Equal Employment Opportunity Act of 1978

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall apply to this Contract. The apparent low Bidder will be required to submit EEO forms to the Division of Construction Procurement, which will then forward to the Finance and Administration Cabinet for review and approval. No award will become effective until all forms are submitted and EEO/CC has certified compliance. The required EEO forms are as follows:

- EEO-1: Employer Information Report
- Affidavit of Intent to Comply
- Employee Data Sheet
- Subcontractor Report

These forms are available on the Finance and Administration's web page under ***Vendor Information, Standard Attachments and General Terms*** at the following address: **https://www.eProcurement.ky.gov**.

Bidders currently certified as being in compliance by the Finance and Administration Cabinet may submit a copy of their approval letter in lieu of the referenced EEO forms.

For questions or assistance please contact the Finance and Administration Cabinet by email at **finance.contractcompliance@ky.gov** or by phone at 502-564-2874.

KENTUCKY LABOR CABINET
PREVAILING WAGE DETERMINATION
CURRENT REVISION
HIGHWAY CONSTRUCTION LOCALITY NO. II

Determination No. CR-13-II-HWY

Project No.
Highway

Date of Determination: April 15, 2013

This schedule of the prevailing rate of wages for Locality No. II including the counties of ADAIR, BARREN, BELL, BREATHITT, CASEY, CLAY, CLINTON, CUMBERLAND, ESTILL, FLOYD, GARRARD, GREEN, HARLAN, HART, JACKSON, JOHNSON, KNOTT, KNOX, LAUREL, LAWRENCE, LEE, LESLIE, LETCHER, LINCOLN, MCCREARY, MAGOFFIN, MARTIN, MENIFEE, METCALFE, MONROE, MORGAN, OWSLEY, PERRY, PIKE, POWELL, PULASKI, ROCKCASTLE, RUSSELL, TAYLOR, WAYNE, WHITLEY, and WOLFE has been determined in accordance with the provisions of KRS 337.505 to 337.550. This determination shall be referred to as Prevailing Wage Determination No. CR-13-II-HWY.

The following schedule of rates is to be used for highway construction projects advertised or awarded by the Kentucky Transportation Cabinet. This includes any contracts for the relocation of any utilities or other incidental construction projects advertised or awarded by public authorities as a result of the highway construction project.

Apprentices or trainees shall be permitted to work in accordance with Administrative Regulations adopted by the Commissioner of the Department of Workplace Standards. Copies of these regulations will be furnished upon request to any interested person.

Overtime is to be computed at not less than one and one-half (1 1/2) times the indicated BASE RATE for all hours worked in excess of eight (8) hours per day, or in excess of forty (40) hours per week. However, KRS 337.540 permits an employee and employer to agree, in writing, that the employee will be compensated at a straight time base rate for hours worked in excess of eight (8) hours in any one calendar day, but not more than ten (10) hours worked in any one calendar day, if such written agreement is prior to the over eight (8) hours in a calendar day actually being worked, or where provided for in a collective bargaining agreement. The fringe benefit rate is to be paid for each hour worked at a straight time rate for all hours worked. Fringe benefit amounts are applicable for all hours worked except when otherwise noted. Welders will receive rate for craft in which welding is incidental.

No laborer, workman or mechanic shall be paid at a rate less than that of the General Laborer except those classified as bona fide apprentices registered with the Kentucky State Apprenticeship Supervisor unless otherwise specified in this schedule of wage rates.

Michael Donta, Deputy Commissioner
Department of Workplace Standards

CLASSIFICATIONS	RATE AND FRINGE BENEFITS	
BOILERMAKERS:	BASE RATE	$24.65
	FRINGE BENEFIT	12.94
BRICKLAYERS:		
Bricklayers:	BASE RATE	$22.90
	FRINGE BENEFITS	8.50
Stone Mason:	BASE RATE	$21.50
	FRINGE BENEFITS	8.50
CARPENTERS:		
Carpenters:	BASE RATE	$24.15
	FRINGE BENEFITS	13.50
Piledrivers:	BASE RATE	$23.80
	FRINGE BENEFITS	13.50
CEMENT MASONS:	BASE RATE	$21.25
	FRINGE BENEFITS	8.50
ELECTRICIANS:	*BASE RATE	$29.36
	FRINGE BENEFITS	10.55

*When workmen are required to work from bosum chairs, trusses, stacks, tanks, scaffolds, catwalks, radio and T.V. towers, structural steel (open, unprotected, unfloored raw steel), and bridges or similar hazardous locations where workmen are subject to a direct fall, except where using JLG's and bucket trucks up to 75 feet: Add 25% to workman's base rate for 50 to 75 feet, and add 50% to workman's base rate for over 75 feet.

LINEMAN:	*BASE RATE	$30.09
	FRINGE BENEFITS	10.94
EQUIPMENT OPERATOR:	*BASE RATE	$26.90
	FRINGE BENEFITS	10.31
GROUNDSMAN:	*BASE RATE	$17.79
	FRINGE BENEFITS	8.51
IRONWORKERS:	BASE RATE	$ 26.34
	FRINGE BENEFITS	18.84

CLASSIFICATIONS — RATE AND FRINGE BENEFITS

LABORERS:

GROUP 1: Aging and curing of concrete (any mode or method), asbestos abatement worker, asphalt plant laborers, asphalt laborers; batch truck dumpers; carpenter tenders, cement mason tenders, cleaning of machines, concrete laborers, demolition laborers, dredging laborers, drill helper, environmental laborer - nuclear, radiation, toxic and hazardous waste – Level D, flagmen, grade checkers, all hand digging and hand back filling, highway marker placers, landscaping laborers, mesh handlers and placers, puddler, railroad laborers, rip-rap and grouters, right of way laborers, sign, guard rail and fence installers (all types), signalmen, sound barrier installer, storm and sanitary sewer laborers, swampers, truck spotters and dumpers, wrecking of concrete forms, general cleanup:

HEAVY & HIGHWAY	BASE RATE	$21.15
	FRINGE BENEFITS	11.41

GROUP 2: Batter board men (sanitary and storm sewer), brickmason tenders, mortar mixer operator, scaffold builders, burner and welder, bushammers, chain saw operator, concrete saw operators, deckhand scow man, dry cement handlers, environmental laborers – nuclear, radiation, toxic and hazardous waste – Level C, forklift operators for masonry, form setters, green concrete cutting, hand operated grouter and grinder machine operator, jack hammers, lead paint abatement, pavement breakers, paving joint machine, pipe layers – laser operators (non-metallic), plastic pipe fusion, power driven Georgia buggy and wheel barrow, power post hole diggers, precast manhole setters, walk-behind tampers, walk-behind trenchers, sand blasters, concrete chippers, surface grinders, vibrator operators, wagon drillers:

HEAVY & HIGHWAY	BASE RATE	$21.40
	FRINGE BENEFITS	11.41

GROUP 3: Air track driller (all types), asphalt luteman and rakersm gunnite nozzleman, gunnite operators and mixers, grout pump operator, powderman and blaster, side rail setters, rail paved ditches, screw operators, tunnel laborers (free air), and water blasters:

HEAVY & HIGHWAY	BASE RATE	$21.45
	FRINGE BENEFITS	11.41

GROUP 4: Caisson workers (free air), cement finishers, environmental laborer – nuclear, radiation, toxic and hazardous waste – Level A and B, miners and drillers (free air), tunnel blasters, and tunnel mockers (free air), directional and horizontal boring, air track drillers (all types), powder man and blasters, troxler and concrete tester if laborer is utilized:

HEAVY & HIGHWAY	BASE RATE	$22.05
	FRINGE BENEFITS	11.41

OPERATING ENGINEERS:

Group A-1:
NCCCO or OECP Certified; Crane, dragline, hoist (1 drum when used for stack or chimney construction or repair), hoisting engineer (2 or more drums), orangepeel, overhead crane, piledriver, truck crane, tower crane, hydraulic crane:

BASE RATE	$28.40
FRINGE BENEFITS	13.40

CLASSIFICATIONS | RATE AND FRINGE BENEFITS

Group A:
Auto patrol, batcher plant, bituminous paver, cable-way, clamshell, concrete mixer (21 cu. ft. or over), concrete pump, crane, crusher plant, derrick, derrick boat, ditching and trenching machine, dragline, dredge engineer, elevator (regardless of ownership when used for hoisting any building material), elevating grader and all types of loaders, hoe-type machine, hoisting engine, locomotive, LeTourneau or carry-all scoop, bulldozer, mechanic, orangepeel bucket, piledriver, power blade, roller (bituminous), roller (earth), roller (rock), scarifier, shovel, tractor shovel, truck crane, well points, winch truck, push dozer, grout pump, high lift, fork lift (regardless of lift height), all types of boom cats, multiple operator, core drill, tow or push boat, A-Frame winch truck, concrete paver, gradeall, hoist, hyster, material pump, pumpcrete, ross carrier,sheepfoot, sideboom, throttle-valve man, rotary drill, power generator, mucking machine, rock spreader attached to equipment, scoopmobile, KeCal loader, tower cranes (French, German and other types), hydrocrane, tugger, backfiller gurries, self-propelled compactor, self-contained hydraulic percussion drill:

BASE RATE $27.35
FRINGE BENEFITS 13.40

Group B:
All air compressors (200 cu. ft. per min. or greater capacity), bituminous mixer, concrete mixer (under 21 cu. ft.), welding machine, form grader, tractor (50 H.P. and over), bull float, finish machine, outboard motor boat, brakeman, mechanic helper, whirly oiler, tractair and road widening trencher, articulating trucks:

BASE RATE $24.87
FRINGE BENEFITS 13.40

Group B2:
Greaser on grease facilities servicing heavy equipment:

BASE RATE $25.26
FRINGE BENEFITS 13.40

Group C:
Bituminous distributor, cement gun, conveyor, mud jack, paving joint machine, pump, tamping machine, tractors (under 50 H.P.), vibrator, oiler, air compressors (under 200 cu. ft. per min. capacity), concrete saw, burlap and curing machine, hydro seeder, power form handling equipment, deckhand oiler, hydraulic post driver:

BASE RATE $24.60
FRINGE BENEFITS 13.40

PAINTERS:
All Excluding Bridges:

BASE RATE $19.92
FRINGE BENEFITS 9.57

Bridges:

BASE RATE $23.92
FRINGE BENEFITS 10.07

CLASSIFICATIONS	RATE AND FRINGE BENEFITS	
PLUMBERS:	BASE RATE	$22.52
	FRINGE BENEFITS	7.80
SHEET METAL:	BASE RATE	$20.40
	FRINGE BENEFITS	7.80
TRUCK DRIVERS:		
Truck helper and warehouseman:	BASE RATE	$22.45
	FRINGE BENEFITS	13.50
Driver, winch truck and A-Frame when used in transporting materials:	BASE RATE	$22.55
	FRINGE BENEFITS	13.50
Driver, (semi-trailer or pole trailer), driver (dump truck, tandem axle), driver of distributor:	BASE RATE	$22.65
	FRINGE BENEFITS	13.50
Driver on mixer trucks (all types):	BASE RATE	$22.70
	FRINGE BENEFITS	13.50
Truck mechanic:	BASE RATE	$22.75
	FRINGE BENEFITS	13.50
Driver (3 tons and under), tire changer and truck mechanic helper:	BASE RATE	$22.78
	FRINGE BENEFITS	13.50
Driver on pavement breakers:	BASE RATE	$22.80
	FRINGE BENEFITS	13.50
Driver (over 3 tons), driver (truck mounted rotary drill):	BASE RATE	$22.99
	FRINGE BENEFITS	13.50
Driver, Euclid and other heavy earth moving equipment and Low Boy:	BASE RATE	$23.56
	FRINGE BENEFITS	13.50
Greaser on greasing facilities:	BASE RATE	$23.65
	FRINGE BENEFITS	13.50

Kentucky Determination No. CR-13-II-HWY dated April 15, 2013

Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

No laborer, workman or mechanic shall be paid at a rate less than that of the General Laborer except those classified as bona fide apprentices registered with the Kentucky State Apprenticeship Supervisor unless otherwise specified in this schedule of wage rates.

These rates are listed pursuant to the Kentucky Determination No. CR-13-II-HWY dated April 15, 2013. Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

The contract or shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

TO: EMPLOYERS/EMPLOYEES

PREVAILING WAGE SCHEDULE:

The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the numbers of hours worked in each classification at the prescribed hourly base rate.

OVERTIME:

Overtime is to be paid after an employee works eight (8) hours a day or forty (40) hours a week, whichever gives the employee the greater wage. At least time and one-half the base rate is required for all overtime. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. Wage violations or questions should be directed to the designated Engineer or to the undersigned.

Diana Castle Radcliffe, P.E.
Director, Division of Construction Procurement
Frankfort, Kentucky 40622

PART IV

INSURANCE

INSURANCE

The Contractor shall procure and maintain the following insurance in addition to the insurance required by law:

1) Commercial General Liability-Occurrence form – not less than $2,000,000 General aggregate, $2,000,000 Products & Completed Aggregate, $1,000,000 Personal & Advertising, $1,000,000 each occurrence.

2) Automobile Liability- $1,000,000 per accident

3) Employers Liability:

   a) $100,000 Each Accident Bodily Injury
   b) $500,000 Policy limit Bodily Injury by Disease
   c) $100,000 Each Employee Bodily Injury by Disease

4) The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
   a) "policy contains no deductible clauses."
   b) "policy contains _____ (amount) deductible property damage clause but company will pay claim and collect the deductible from the insured."

5) KENTUCKY WORKMEN'S COMPENSATION INSURANCE. The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.

The cost of insurance is incidental to all contract items. All subcontractors must meet the same minimum insurance requirements.

PART V

BID ITEMS

141039

PROPOSAL BID ITEMS

Report Date 7/2/14

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0010	00001		DGA BASE	375.00	TON		$	
0020	00078		CRUSHED AGGREGATE SIZE NO 2	10.00	TON		$	
0030	00100		ASPHALT SEAL AGGREGATE	117.00	TON		$	
0040	00103		ASPHALT SEAL COAT	14.00	TON		$	
0050	00190		LEVELING & WEDGING PG64-22	1,000.00	TON		$	
0060	00214		CL3 ASPH BASE 1.00D PG64-22	201.00	TON		$	
0070	00216		CL3 ASPH BASE 1.00D PG76-22	201.00	TON		$	
0080	00301		CL2 ASPH SURF 0.38D PG64-22	1,590.00	TON		$	
0090	00387		CL3 ASPH SURF 0.38B PG76-22	4,647.00	TON		$	
0100	02677		ASPHALT PAVE MILLING & TEXTURING	624.00	TON		$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0110	00462		CULVERT PIPE-18 IN	136.00	LF		$	
0120	00464		CULVERT PIPE-24 IN	117.00	LF		$	
0130	00466		CULVERT PIPE-30 IN	5.00	LF		$	
0140	00468		CULVERT PIPE-36 IN	55.00	LF		$	
0150	01001		PERFORATED PIPE-6 IN	3,369.00	LF		$	
0160	01011		NON-PERFORATED PIPE-6 IN	65.00	LF		$	
0170	01021		PERF PIPE HEADWALL TY 1-6 IN	2.00	EACH		$	
0180	01029		PERF PIPE HEADWALL TY 3-6 IN	2.00	EACH		$	
0190	01310		REMOVE PIPE	146.00	LF		$	
0200	01440		SLOPED BOX INLET-OUTLET TYPE 1	1.00	EACH		$	
0210	01494		DROP BOX INLET TYPE 2 MOD	1.00	EACH		$	
0220	01691		FLUME INLET TYPE 2	9.00	EACH		$	
0230	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	85.00	EACH		$	
0240	02019		JPC PAVEMENT-4 IN/24	5.00	SQYD		$	
0250	02157		PAVED DITCH TYPE 1	6.00	SQYD		$	
0260	02237		DITCHING	11,868.00	LF		$	
0270	02360		GUARDRAIL TERMINAL SECTION NO 1	5.00	EACH		$	
0280	02367		GUARDRAIL END TREATMENT TYPE 1	13.00	EACH		$	
0290	02381		REMOVE GUARDRAIL	7,837.50	LF		$	
0300	02483		CHANNEL LINING CLASS II	110.00	TON		$	
0310	02484		CHANNEL LINING CLASS III	294.00	TON		$	
0320	02585		EDGE KEY	158.00	LF		$	
0330	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		$	
0340	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		$	
0350	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		$	
0360	02696		SHOULDER RUMBLE STRIPS-SAWED	19,875.00	LF		$	
0370	02714		SHOULDERING	13,572.00	LF		$	
0380	02726		STAKING	1.00	LS		$	
0390	02775		ARROW PANEL	2.00	EACH		$	
0400	05950		EROSION CONTROL BLANKET	13,187.00	SQYD		$	
0410	06511		PAVE STRIPING-TEMP PAINT-6 IN	44,359.00	LF		$	
0420	06515		PAVE STRIPING-PERM PAINT-6 IN	44,359.00	LF		$	

PROPOSAL BID ITEMS

141039

Report Date 7/2/14

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0430	06567		PAVE MARKING-THERMO STOP BAR-12IN	389.00	LF		$	
0440	06573		PAVE MARKING-THERMO STR ARROW	9.00	EACH		$	
0450	06574		PAVE MARKING-THERMO CURV ARROW	26.00	EACH		$	
0460	06600		REMOVE PAVEMENT MARKER TYPE V	413.00	EACH		$	
0470	08100		CONCRETE-CLASS A	10.00	CUYD		$	
0480	08150		STEEL REINFORCEMENT	1,292.00	LB		$	
0490	10020NS		FUEL ADJUSTMENT	1.00	DOLL	$9,722.00	$	$9,722.00
0500	10030NS		ASPHALT ADJUSTMENT	1.00	DOLL	$17,131.00	$	$17,131.00
0510	21802EN		G/R STEEL W BEAM-S FACE (7 FT POST)	8,437.50	LF		$	
0520	22883EN		CONCRETE WEDGE CURB	2,633.00	LF		$	
0530	23143ED		KPDES PERMIT AND TEMP EROSION CONTROL	1.00	LS		$	
0540	23821EC		CENTERLINE RUMBLE STRIPS-12 IN	5,200.00	LF		$	
0550	24489EC		INLAID PAVEMENT MARKER	826.00	EACH		$	
0560	24631EC		BARCODE SIGN INVENTORY	65.00	EACH		$	

Section: 0003 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0570	06406		SBM ALUM SHEET SIGNS .080 IN	170.00	SQFT		$	
0580	06407		SBM ALUM SHEET SIGNS .125 IN	610.00	SQFT		$	
0590	06410		STEEL POST TYPE 1	1,215.00	LF		$	

Section: 0004 - TRAFFIC LOOPS

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0600	04793		CONDUIT-1 1/4 IN	200.00	LF		$	
0610	04811		ELECTRICAL JUNCTION BOX TYPE B	1.00	EACH		$	
0620	04830		LOOP WIRE	1,500.00	LF		$	
0630	04850		CABLE-NO. 14/1 PAIR	150.00	LF		$	
0640	04895		LOOP SAW SLOT AND FILL	510.00	LF		$	

Section: 0005 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0650	02568		MOBILIZATION	1.00	LS		$	
0660	02569		DEMOBILIZATION	1.00	LS		$	