NON-BIDDING

PROPOSAL

TRANSPORTATION CABINET
Department of Highways
Frankfort, Kentucky 40622

PROPOSAL NO. _____
PROJECT CODE NO. 03-0090

LETTING OF FEBRUARY 14, 2003
Sealed Bids will be received in the Division of Contract Procurement and/or the Auditorium located on the 1st Floor of the State Office Building until 10:00 A.M., EST, on FEBRUARY 14, 2003. Bids will be publicly opened and read at 10:00 A.M., EASTERN STANDARD TIME.

PROJECT IDENTIFICATION AND DESCRIPTION:

VARIOUS COUNTIES, FE04 121 DW03 0000008
Waterborne paint striping, with QC/QA, on various routes in Bath, Boyd, Carter, Elliot, Fleming, Greenup, Lewis, Mason, Nicholas, and Rowan Counties (District 9), a distance of 1,050 miles.

(9)

GRAPHIC COORDINATES:
LATITUDE - 38° 10' NORTH
LONGITUDE - 83° 45' WEST

COMPLETION DATE ESTABLISHED FOR PROJECT: SEE SPECIAL NOTES

LIQUIDATED DAMAGES: SEE SPECIAL NOTES

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

(Check guaranty submitted: Cashier's Check |__| Certified Check |__| Bid Bond |__|)

BID BONDS WHEN SUBMITTED WILL BE RETAINED WITH THE PROPOSAL.

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BID..... |__|

SPECIMEN..... |__|

PROPOSAL ISSUED TO: _____

_____
Address City State Zip

PART I

SCOPE OF WORK

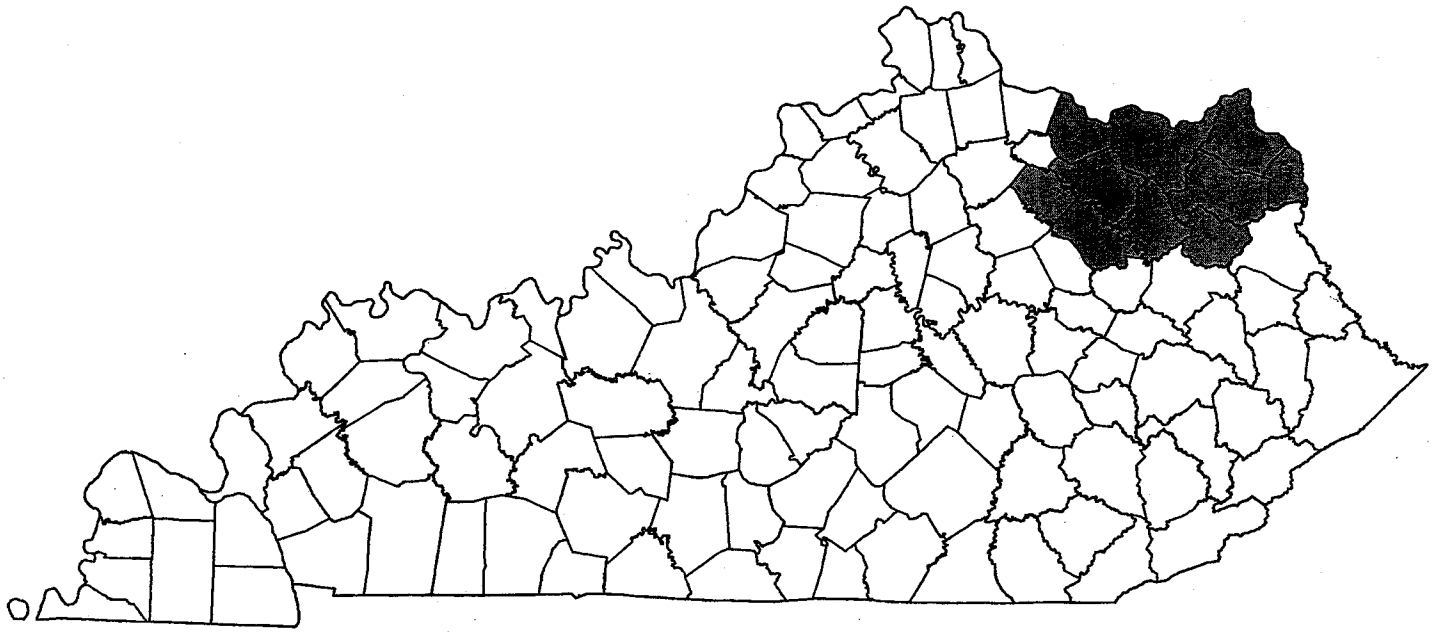
1. Project Detail

a. See Sketch and Material Summary	Attached
b. Special Notes Applicable to Project	Attached
c. Supplemental Specifications	Attached
d. Special Notes for FE04 121 DW03 0000008	Attached

KENTUCKY TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS

WATERBORNE PAINT STRIPING
2003 STRIPING SEASON

DISTRICT 9 - FLEMINGSBURG
FE04 121 DW03 0000008



WATERBORNE PAINT STRIPING - FY 2003
RS BREAKDOWN

DISTRICT NINE

COUNTY	4" LINE	
	YELLOW	WHITE
BATH	25	8
BOYD	16	
CARTER	54	
ELLIOTT	28	
FLEMING	49	
GREENUP	39	23
LEWIS	45	
MASON	40	18
NICHOLAS	27	
ROWAN	22	
TOTAL	345	49

WATERBORNE PAINT STRIPING - FY 2003
MP BREAKDOWN

DISTRICT NINE

COUNTY	4" LINE		6" LINE	
	YELLOW	WHITE	YELLOW	WHITE
BATH	127	25	12	14
BOYD	119	80		
CARTER	168	89	21	27
ELLIOTT	130	51		
FLEMING	138	124		
GREENUP	222	179		
LEWIS	150	137		
MASON	163	157		
NICHOLAS	72	62		
ROWAN	108	75	15	19
TOTAL	1397	979	48	60

SPECIAL NOTES APPLICABLE TO PROJECT

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT AND MAY BE OBTAINED BY CONTACTING THE DEPARTMENT OF HIGHWAYS, DIVISION OF DESIGN, AT A COST OF $0.50 PER COPY:

Miscellaneous Traffic Control Devices (TTD 100)
Miscellaneous Traffic Control Devices (TTD 105)
Mobile Operation for Paint Striping Case I (TTS 100)
Mobile Operation for Paint Striping Case II (TTS 105)
Mobile Operation for Paint Striping Case III (TTS 110)
Mobile Operation for Paint Striping Case IV (TTS 115)

2000 SPECIFICATIONS

Any reference in the plans or in the proposal to the ***Standard Specifications for Road and Bridge Construction, Edition of 1998***, and Standard Drawings, Edition of 2000 are superseded by ***Standard Specifications for Road and Bridge Construction, Edition of 2000***,and Standard Drawings, Edition of 2003.

2001 SUPPLEMENTAL SPECIFICATIONS

The ***2001 Supplemental Specifications*** to the 2000 Standard Specifications for Road and Bridge Construction shall apply to this project.

PROPOSAL ADDENDA

All Addenda to this proposal must be incorporated into the proposal when the bid is submitted to the Kentucky Department of Highways. Failure to use the correct and most recent bid sheet(s) may result in the bid being rejected.

BID SUBMITTAL

Bidder must use the Department's Highway Bid Program available on the internet web site of Department of Highways, Division of Contract Procurement. (www.kytc.state.ky.us/contract)

The Bidder must download the bid items created from the web site to prepare a bid proposal for submission to the Department. The Bidder must insert the completed bid item sheets printed from the Program into the bidder's proposal and submit with the disk created by said program.

JOINT VENTURE BIDDING

Joint Venture bidding is permissible. However, both companies MUST purchase a bidding proposal. Either proposal may be submitted but must contain the company names and signatures of both parties where required. 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 provisions of the act.

ASPHALT BASE PRICE

The Asphalt Base Price shall be **$170.00 (English)** as applicable in **Section 109.07** of the ***2000 Standard Specifications.***

NHS PROJECTS

This project is on the ***NATIONAL HIGHWAY SYSTEM.***

WORK ZONE CATEGORY I AND II DEVICES

The Contractor is required to provide certification that all *Work Zone Category I and II Devices* are compliant with **NCHRP 350** before these devices are used on the project. *Category II Devices* include, but are not limited to: portable sign stands (with signs), type I, II & III barricades, vertical panels, intrusion alarms, cones with lights, and other work zone devices under 45kg (100 lb).

Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2000 Edition (Effective with the February 14, 2003 Letting)

SUBSECTION:	102.07.01 General.
REVISION:	Replace the first sentence with the following: Submit the Bid Proposal on the forms furnished by the Department including the Highway Bid Program bid item sheets and disk created from the Department's internet web site.
SUBSECTION:	102.07.02 Computer Bidding.
REVISION:	Replace the subsection with the following: Subsequent to ordering a Bid Proposal for a specific project, use the Department's Highway Bid Program on the internet web site of the Department of Highways, Division of Contract Procurement. Download the bid item quantities from the Department's web site to prepare a Bid Proposal for submission to the Department. Insert the completed bid item sheets printed from the Highway Bid Program into the Proposal and submit along with the disk created by said program. In case of a dispute, the Bid Proposal and bid item sheets created by the Highway Bid Program take precedence over any bid submittal. Furthermore the Department takes no responsibility for loss, damage of disks or the compatibility with the bidder's computer equipment or software.
SUBSECTION:	102.08 IRREGULAR BID PROPOSALS.
REVISION:	Add the following to the first set of items: 4) Fails to submit a disk created from the Highway Bid Program
SUBSECTION:	102.08 IRREGULAR BID PROPOSALS.
REVISION:	Replace 1) of the second set of items with the following: 1) when the Bid Proposal is on a form other than that furnished by the Department or printed from other than the Highway Bid Program , or when the form is altered or any part is detached.
SUBSECTION:	103.05 REQUIREMENT OF CONTRACT BOND.
REVISION:	Replace the first sentence of the first paragraph with the following: To be acceptable to the Department, the surety must have a minimum A. M. Best rating of an "A-", be listed on the U.S. Treasury Listing of approved sureties for an amount equal to or greater than the amount of the bond and be an admitted carrier in the Commonwealth of Kentucky. Replace the last sentence of the first paragraph with the following: If at any time during the performance of the Contract the surety company falls below the minimum acceptable requirements, the Contractor shall file a new bond in an amount established by the Commissioner, or his designee, within 14 calendar days of such failure to meet the minimum requirements. Add the following to the end of the subsection: The Department reserves the right to copy the surety on all of its communications with the Contractor concerning the Contractor's performance, or performance deficiencies, on the project and further reserves the right to communicate directly with the surety to inform them of the Contractor's performance, or performance deficiencies, on the bonded project.
SUBSECTION:	108.02 PRECONSTRUCTION CONFERENCE.
REVISION:	Add the following to the first paragraph: Include a plan for updating the schedule. As a minimum, the schedule must be updated whenever a situation arises or event occurs that significantly affects the progress of the work or when the Engineer directs.
SUBSECTION:	109.04.02 Cost-Plus Work.
PART:	F) Overhead.
REVISION:	Add the following new part: F) Overhead. The Department will pay for overhead cost associated with administering the work, not to exceed 5 percent, when the work is done by a Subcontractor.

SUBSECTION: 112.03.01 General Traffic Control.
PART: G) Signs.
REVISION: Replace the first sentence with the following:

Completely cover all lettering and symbols on existing, permanent, and temporary signs which do not properly apply to the current traffic phasing, and maintain the covering until the signs are Applicable or are removed.

SUBSECTION: 112.03.01 General Traffic Control.
PART: I) Temporary Traffic Signals.
REVISION: Replace the MUTCD reference "Section 4B" with "Chapter 4D"

SECTION: 201 STAKING.
Delete the section and replace with the following:

201.01 DESCRIPTION. When listed as a bid item, furnish all personnel, equipment, stakes, and hubs necessary to construct the roadway and appurtenant structures to the grade and alignment specified in the Contract. When no bid item is listed, the Department will perform staking.

201.02 MATERIALS AND EQUIPMENT. Reserved.

201.03 CONSTRUCTION

201.03.01 Contractor Staking. Perform all necessary surveying under the general supervision of a Professional Engineer or licensed Land Surveyor.

The Department's Engineer will perform the following:

1) Provide adequate referencing of control points to allow prompt re-establishment of the survey centerline, right of way, ramps, crossroads, and frontage roads during construction.
2) Set permanent or temporary bench marks as required.
3) Take any cross sections to verify the accuracy of the original ground information.
4) Take "check sections" to verify that construction is to grade and alignment as specified in the Contract.

The Contractor will perform the following:

1) Re-establish the centerline and set such additional points as may be necessary for construction of the project. Verify the accuracy of the horizontal and vertical control as established by the Department's Engineer before beginning construction.
2) Establish clearing lines so that the project may be cleared without violating the limits of the right of way.
3) Set slope stakes right and left of the survey centerline at 50' to 100' intervals to guide the contractor in constructing the cuts and fills. These stakes are generally set to shoulder grade for fills and ditch grade for cuts. The cut or fill information, slope, and distance from centerline should be on the front face of the stake; the station number should be on the back of the stake. This stake should be guarded with a lath that has the station number written on the side facing the centerline.
4) Grade Stakes (Bluetops). Fine grade control will be set to aid the Contractor in establishing the typical sub-grade section. When using conventional transit and chain methods this fine grade control will be established by setting hubs(referred to as blue tops) every fifty feet to the sub-grade section. These blue tops are set to the hundredth of a foot in elevation and are located left and right of pavement centerline, usually at the edge of metal. Bluetops will be set for the top of sub-grade and the top of aggregate base and/or drainage blanket material. Refer to Section 204.03.10 and Section 302.03.06 for construction tolerances of sub-grade and aggregate base or drainage blanket.
5) Stake all structures (bridges, culverts, pipe, and other appurtenances) so that they can be built to the proper line and grade as shown on the plans and to perform the function for which they were designed.

revision continued

201.03.02 Department Staking. The Department's Engineer will set all stakes necessary for the construction of the roadway and appurtenant structures to the proper grade and alignment in accordance with the contract.

201.03.03 Electronic Surveying. The Department encourages the use of new and advanced technology in the construction of its roads and structures. However, the following restrictions apply:

1) Tolerances are unchanged. Refer to Section 204.03.10 and Section 302.03.06.
2) Sub-grade check sections are to be done every 500' in tangent sections and every 100' in curves using conventional survey methods to establish bluetops and to verify the correct operation of the electronic equipment.
3) The Contractor will submit his electronic data files to the Department's Engineer at the beginning of the project so that the Engineer can reference the data for verification of the field work.

201.04 MEASUREMENT.

201.04.01 Contractor Staking. When listed as a bid item, the Department will measure staking as lump sum. The Department will not measure surveying required to correct any errors or inaccuracies resulting from construction operations for payment.

201.04.02 Department Staking. The Department will not measure quantities for payment. When any stakes are disturbed due to unwarranted negligence of the Contractor, the Department will measure the work required to reset the stakes and deduct the cost from monies due the Contractor.

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

Code	Pay Item	Pay Unit
2726	Staking	Lump Sum

The Department will consider payment as full compensation for all work required under this section.

SUBSECTION: 204.03.08 Disposal of Wasted Materials.
REVISION: Add the following to the end of the second paragraph:

The Department will pay for the geotechnical investigation and analysis of the proposed waste area when one is requested by the Engineer. Ensure all work is performed by a pre-qualified geotechnical consultant and according to the Department's Geotechnical Manual.

SUBSECTION: 206.04.01 Embankment-in-Place.
REVISION: Add the following:

The Department may make adjustments to embankment-in-place projects when there is actually unanticipated waste on the project. Waste generated by the project phasing will not be considered for adjustment. The Department will make an adjustment for the actual costs incurred by the Contractor.

SUBSECTION: 208.03.03 Application of Chemical.
PART: B) Lime.
NUMBER: 3)
REVISION: Replace the second sentence with the following:

Use only when saturated soil conditions exist and the slurry method would worsen the situation or when weather conditions prohibit the use of slurry.

SUBSECTION: 208.03.06 Curing and Protection.
REVISION: Replace the first sentence of the fourth paragraph with the following:

Do not allow any traffic or equipment on the finished surface until 7 days above 40 °F curing is completed or the roadbed cores achieve a minimum strength requirement of 75 psi.

SUBSECTION:	208.04.02 Lime.
REVISION:	Add the following to the end of the second paragraph: When hydrate or quicklime is furnished for dry application, the Department will measure the actual quantity applied to the roadbed.
SUBSECTION:	212.03.03 Permanent Seeding and Protection.
PART:	A) Seed Mixtures for Permanent Seeding.
REVISION:	Replace with the following: A) Seed Mixture for Permanent Seeding. Use seed Mixture No. I, No. III, or as the Contract specifies. Mixture No. I: 75% Kentucky 31 Fescue (Festuca arundinacea) 10% Red Top (Agrostis alba) 5% White Dutch Clover (Trifolium repens) 10% Rygrass, perennial (Lolium perenne) Mixture No. III: 30% Kentucky 31 Fescue (Festuca arundinacea) 15% Red Top (Agrostis alba) 15% Partridge Pea (Cassia fasciculata) 20% Sericea Lespedeza 10% Sweet Clover – Yellow (Melitotus officinalis) 10% Rygrass, perennial (Lolium perenne)
SUBSECTION:	212.03.03 Permanent Seeding and Protection.
PART:	C) Crown Vetch.
REVISION:	Replace the first sentence with the following: Sow crown vetch seed on all areas having a slope 3:1 or steeper and consisting of soil or mixtures of broken rock and soil.
SUBSECTION:	212.03.03 Permanent Seeding and Protection.
PART:	E) Erosion Control Blanket.
REVISION:	Replace the first sentence with the following: Install erosion control blankets in ditches, except those to be paved or rock lined, to a flow depth of 1.5 feet.
SUBSECTION:	213.03.02 Progress Requirements.
REVISION:	Replace the word "may" with "will" in the second sentence of the third paragraph.
SUBSECTION:	213.03.02 Progress Requirements.
REVISION:	Replace the third 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 5 days after written notification.
SUBSECTION:	214.04 MEASUREMENT.
REVISION:	Replace the second sentence with the following: The Department will not measure fabric when the Contract indicates the fabric is incidental to the work or when the specification for another item requires incidental installation of geotextile fabric.
SUBSECTION:	302.02 MATERIALS.
REVISION:	Add the following: 302.02.03 Mixer. Equip the mixer with a water flow system with a positive cut-off control that will stop the flow of water simultaneously with any stoppage in the flow of aggregate and with valves or other devices that be easily reset when a change in the rate of flow is desired.

SUBSECTION:	401.02.01 All Asphalt Mixing Plants.
PART:	A)
REVISION:	Replace the first sentence of the second paragraph with the following: Provide a laboratory inspected and qualified according to the Department's Quality Assurance Program for Materials Testing and Acceptance and conforming to the following minimum requirements:
SUBSECTION:	401.02.01 All Asphalt Mixing Plants.
PART:	A)
REVISION:	Replace the fourth paragraph with the following: In addition to the equipment required to perform testing according to the AASHTO standards and Kentucky Methods (KM), equip each laboratory with the following minimum furnishings and equipment, conforming to the applicable specifications, as required for the type of construction specified in the Contract: 1) one workbench, at least 2.5 feet wide by 6 feet long; 2) one desk or table and 2 chairs; 3) a fire extinguisher located near the door; and 4) a first aid kit.
SUBSECTION:	401.02.01 All Asphalt Mixing Plants.
PART:	Between Items "H" and "I"
REVISION:	Insert the following new item: Recordation. Provide an automatic graphic or digital record of the production quantities according to AASHTO M156.
SUBSECTION:	401.02.01 All Asphalt Mixing Plants.
PART:	I) Thermometers.
REVISION:	Delete the third paragraph.
SUBSECTION:	401.02.04 Special Requirements for Continuous Plants.
PART:	B) Weight Calibration of Asphalt Binder and Aggregate Feed.
REVISION:	Add the following new paragraph: When equipped with aggregate weighing devices (belt scales), calibrate each cold feeder, along with the aggregate weighing devices, according to Subsection 401.02.05 A) and B).
SUBSECTION:	402.03.01 Responsibilities.
PART:	B) Setup.
REVISION:	Replace (MSG) with (G_{mm})
SUBSECTION:	402.03.01 Responsibilities.
REVISION:	Add the following: C) Process Control. After the setup period, perform the process control operations of KM 64-426.
SUBSECTION:	402.03.02 Acceptance.
PART:	A) General.
REVISION:	Add the following: Document and report all acceptance tests on the Asphalt Mixtures Acceptance Workbook (AMAW). Submit the completed AMAW for each lot to the Department within 5 working days after the completion of the lot.
SUBSECTION:	402.03.02 Acceptance.
PART:	C) Setup.
REVISION:	Add the following after the second sentence: For mixtures with a total-project quantity between 500 and 1,000 tons, perform a minimum of one process control test for AC, AV, and VMA, and report the results to the Engineer.

SUBSECTION: 402.03.03 Verification.
REVISION: Replace the first two sentences with the following:

For volumetric properties, the Department will perform a minimum of one verification test for AC, AV, and VMA for each lot according to the corresponding procedures as given in Subsection 402.03.02. 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.

SUBSECTION: 402.05.02 Asphalt Mixtures and Mixtures with RAP.
PART: D) Conventional and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.
REVISION: Replace with the following:

The Department will pay as mainline mixture but use a 1.00 pay value for all properties.

SUBSECTION: 402.05.01 Specialty Mixtures.
REVISION: Add "asphalt mixtures for temporary applications" to the list of defined specialty mixtures.

SUBSECTION: 403.02.05 Release Agent.
REVISION: Replace with the following:

Provide materials conforming to KM 64-442.

SUBSECTION: 403.02.06 Transport Equipment.
REVISION: Add the following after the first sentence:

Do not load trucks that are contaminated with an unapproved release agent. When such contamination is identified after loading, reject the load. In either case, remove the truck and respective driver from the project for the duration of the project.

SUBSECTION: 403.02.09 Small Tools and Portable Equipment.
REVISION: Add the following at the end of the first paragraph:

Do not use an unapproved release agent on any small tools or equipment incidental to the paving operation.

SUBSECTION: 403.03.01 Seasonal and Weather Limitations.
REVISION: Replace "November 15" with "November 30" throughout the Subsection.

SUBSECTION: 403.03.02 Preparation of Base.
REVISION: Replace the first sentence of the eighth paragraph with the following:

Remove existing Type V markers. Fill the recess and any additional damaged area with compacted asphalt mixture within 24 hours of removal.

SUBSECTION: 403.03.03 Preparation of Mixture.
PART: A) Mixture Composition.
REVISION: Replace Part A) with the following:

A) Mixture Composition. Provide the appropriate mixture composition for the specified asphalt mixture, or substitute a higher aggregate type. When substituting a mixture of a higher ESAL class, provide a mixture of no more than one ESAL class higher than the specified asphalt mixture. Conform to the gradation requirements (control points) of AASHTO MP2 for the Superpave mixture. Unless the Engineer authorizes otherwise in writing, use the same type and source of ingredient aggregates and asphalt binder throughout the entire project for each type of mixture. For asphalt surface courses containing 100 percent polish-resistant coarse aggregate, limit the portion of non-polish-resistant fine aggregate retained on a No. 4 sieve to 5 percent of the total combined aggregates.

When using a porous aggregate, increase the asphalt binder content (AC) as needed for asphalt binder absorption by the aggregate.

The following aggregate requirements are listed in order of the highest, Type A, to the lowest, Type D:

1) Type A. Provide 100 percent of the coarse aggregate Class A sources. Ensure that 20 percent of the total combined aggregate is Class A polish-resistant fine aggregate.

Type B. Select either of the 2 following options:

revision continued	a) Provide 100 percent of the coarse aggregate from Class B sources. b) Provide a combined aggregate, retained on the No. 4 sieve, that is a minimum of 50 percent from any Class A polish-resistant aggregate source except those identified as "Not Permitted as the polish-resistant portion of Class B blends." Submit all Class B blends to the Department for review. For Option a) or b) above, ensure one of the following: • 20 percent or more of the total combined aggregate is Class A polish resistant fine aggregate. • 30 percent or more of the total combined aggregate is Class B polish resistant fine aggregate. • 30 percent or more of the total combined aggregate is a combination of Class A and Class B polish resistant fine aggregate. 3) Type C. Ensure that 40 percent or more of the total combined aggregate is polish-resistant; Class A coarse, fine, or combination. 4) Type D. No restriction on aggregate type.
SUBSECTION: **PART:** **REVISION:**	403.03.03 Preparation of Mixture. B) Moisture Content of Mix Replace the third sentence with the following: When moisture contents are 0.10 percent or greater, adjust the AC determination made on plant-produced mixture to reflect the actual AC as KM 64-434 directs.
SUBSECTION: **PART:** **REVISION:**	403.03.03 Preparation of Mixture. C) Mix Design Criteria. Add the following after the first sentence: The Department will allow ESAL Class 1 mixtures to pass through the restricted zone.
SUBSECTION: **PART:** **NUMBER:** **REVISION:**	403.03.03 Preparation of Mixture. C) Mix Design Criteria. 1) Replace the first sentence with the following: Submit a preliminary mix design, completed using a Superpave gyratory compactor (SGC) conforming to AASHTO PP 35.
SUBSECTION: **PART:** **NUMBER:** **REVISION:**	403.03.03 Preparation of Mixture. C) Mix Design Criteria. 2) Selection of Optimum AC. Add the following: Ensure the optimum AC is a minimum of 5.0 percent by weight of the total mixture for all 0.5-inch nominal surface mixtures and 5.3 percent by weight of the total mixture for all 0.38-inch nominal surface mixtures.
SUBSECTION: **TABLE:** **REVISION:**	403.03.06 Thickness Tolerance. Nominal Maximum Size of Mixture vs. Thickness Range Delete
SUBSECTION: **PART:** **REVISION:**	403.03.09 Leveling and Wedging, and Scratch Course. A) Leveling and Wedging. Replace the first sentence with the following: Conform to the gradation requirements (control points) for base, binder, or surface as applicable.
SUBSECTION: **PART:** **REVISION:**	403.03.09 Leveling and Wedging, and Scratch Course. B) Scratch Course. Replace the second sentence with the following: Conform to the gradation requirements (control points) for base, binder, or surface as the Engineer directs.
SUBSECTION: **REVISION:**	407.02.02 Aggregate. Change Sieve Size No. 30 to read Sieve Size No. 50.

SECTION: 404 OPEN-GRADED FRICTION COURSE
TABLE: LOT PAY ADJUSTMENT SCHEDULE FOR SPECIALTY MIXTURES
REVISION: Replace the table with the following table:

LOT PAY ADJUSTMENT SCHEDULE FOR SPECIALTY MIXTURES (TEST DEVIATION FROM JMF)

	Pay Value	Deviation From JMF (%)
Asphalt Binder Content	1.00	0.0-0.5
	0.98	0.6
	0.95	---
	0.90	0.7
	0.85	0.8
	0.75	≥ 0.9
1 1/2 inch Sieve	1.00	0-13
	0.98	14
	0.95	15-16
	0.90	17-20
	0.85	21-23
	0.75	≥ 24
1 inch, 3/4 inch, and 1/2 inch Sieves	1.00	0-9
	0.98	10
	0.95	11-12
	0.90	13-14
	0.85	15-16
	0.75	≥ 17
3/8 inch, No. 4, No. 8, No. 16, and No. 30 Sieves	1.00	0-8
	0.98	9
	0.95	10
	0.90	11-12
	0.85	13-14
	0.75	≥ 15
No. 50 Sieve	1.00	0-6
	0.98	7
	0.95	8
	0.90	9
	0.85	10
	0.75	≥ 11
No. 100 Sieve	1.00	0-3
	0.98	---
	0.95	4
	0.90	5
	0.85	---
	0.75	≥ 6
No. 200 Sieve	1.00	0.0-2.0
	0.98	2.5
	0.95	3.0
	0.90	---
	0.85	3.5
	0.75	≥ 4.0
Fineness Modulus	1.00	0.0-0.30
	0.98	0.31-0.34
	0.95	0.35-0.39
	0.90	0.40-0.46
	0.85	0.47-0.55
	0.75	≥ 0.56

SUBSECTION: 406.02.01 Tack Coat.
REVISION: Replace with the following:

Furnish any of the following asphalt materials conforming to 806: SS-1, SS-1h, or RS-1.

SUBSECTION: 406.02.03 Curing Seal.
REVISION: Replace with the following:

Furnish any of the following asphalt materials conforming to 806: RS-1, RS-2, SS-1, SS-1h, or Primer L.

SUBSECTION: 406.03.03 Application.
REVISION: Replace the temperature table with the following:

Primer L	60-120 °F
SS-1, SS-1h	70-160 °F
RS-1, RS-2	70-140 °F

SUBSECTION: 406.03.03 Application.
PART: B) Asphalt Tack Coat.
REVISION: Replace the second paragraph with the following:

When furnishing RS-1 for tack, apply it undiluted.

Replace the first sentence of the third paragraph with the following:

When furnishing SS-1 or SS-1h for tack, the Department will allow diluted or undiluted application provided uniform and complete coverage is achieved.

SUBSECTION: 407.02.02 Aggregate.
REVISION: Change Sieve Size No. 30 to read Sieve Size No. 50.

SUBSECTION: 408.04.02 Mobilization for Asphalt Pavement Milling and Texturing.
REVISION: Add the following:

For group contracts, the Department will measure the quantity for each project (subsection) that has a bid item for Mobilization for Asphalt Pavement Milling and Texturing.

SUBSECTION: 409.02 MATERIALS AND EQUIPMENT.
REVISION: Replace "KM 64-427" with the following:

the guidelines in Subsection 409.03.02

SUBSECTION: 409.03.01 Restrictions.
REVISION: Add the following sentence:

When the mixture's bid item specifies PG 76-22, limit RAP content to 20 percent or less.

SUBSECTION: 409.03.02 Preparation of Mixture.
PART: A) Mix Requirements.
REVISION: Void the Revision and replace with the following:

Conform to the Contract requirements for each mixture produced using RAP. If mixtures produced using RAP do not conform to the requirements for that mixture, complete the project using all virgin materials at no additional expense to the Department. Conform to the following table to select the appropriate grade of virgin asphalt binder to blend with the RAP:

Mixture's Bid Item	Appropriate Virgin Asphalt Binder		
	0-20% RAP	21-30% RAP	>30% RAP
PG 76-22	PG 76-22	-	-
PG 70-22	PG 70-22	PG 64-22	*
PG 64-22	PG 64-22	PG 64-22	*

* Select according to KM 64-427

SUBSECTION: 410.05 PAYMENT.
REVISION: Replace the RIDE QUALITY ADJUSTMENT SCHEDULE with the following 2 schedules:

RIDE QUALITY ADJUSTMENT SCHEDULE FOR ROADS POSTED GREATER THAN 45 MPH

IRI	Pay Value[1]
36 or Less	+0.15
37 to 46	= 1.5 x (47 – IRI)
47 to 66	0.00
67 to 76	= 1.5 x (67 – IRI)
77 or higher	Corrective work or replacement required

RIDE QUALITY ADJUSTMENT SCHEDULE FOR ROADS POSTED 45 MPH OR LESS

Rideability Index	Pay Value[1]
36 or Less	+0.15
37 to 46	= 1.5 x (47 – IRI)
47 to 85	0.00
86 or lower	Corrective work or replacement required

[1] *The Department will not apply a positive pay value for corrective work other than removal and replacement to achieve the IRI.*

SUBSECTION: 501.03.13 Finishing.
PART: H) Texturing.
REVISION: Replace the third paragraph with the following:

Form transverse grooves in the concrete with a width between 0.09 inch and 0.13 inch and a depth between 0.12 inch and 0.19 inch. Space the grooves at random intervals between 0.4 inch to 1.5 inches with no more than 50 percent of the spacing being one inch or greater.

SUBSECTION: 506.03.01 Header Curb, Valley Gutter, and Curb and Gutter (Combination).
REVISION: In the second sentence of the third paragraph replace the Subsection reference 601.03.12 with 501.02.10.
In the second sentence of the sixth paragraph replace the Subsection reference 601.03.16 with 501.03.17 D).

SUBSECTION: 508.03.03 Precast Construction.
REVISION: Replace "Subsection 605.03" in the first sentence with Section 605.

SUBSECTION: 509.03 CONSTRUCTION.
REVISION: Replace "Subsection 605.03" in the first sentence with Section 605.

SUBSECTION: 601.02.13 Forms.
PART: F) Stay-In-Place Metal Forms.
NUMBER: 1) Forms and Supports.
REVISION: Replace ASTM A 446 with ASTM A 653.
Replace ASTM A 525 with ASTM A 924.

SUBSECTION: 601.03.03 Proportioning and Requirements.
PART: A) Concrete.
TABLE: INGREDIENT PROPORTIONS AND REQUIREMENTS FOR VARIOUS CLASSES OF CONCRETE
REVISION: Add the following foot note to AA Slump:

The Department may allow the slump of AA concrete to be increased up to a 6 inch maximum, provided the w/c ratio does not exceed 0.40 and a high range water reducer (Type F or G) is used. Trial Batches will be required if producer has not previously supplied.

SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	C) Mixtures Using Type IP, IS and I(SM) Cement or Mineral Admixtures.
NUMBER:	2) Mineral Admixtures.
REVISION:	Add the following after the first sentence: Reduction of the total cement content by a combination of any mineral admixtures will be allowed, up to a maximum of 30 percent.
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	C) Mixtures Using Type IP Cement or Mineral Admixtures.
NUMBER:	2) Mineral Admixtures.
LETTER:	b) Ground Granulated Blast Furnace Slag (GGBF Slag).
REVISION:	Replace the first sentence with the following: When added as a separate ingredient, use Grade 120 GGBF or 100 GGBF slag to reduce the quantity of cement, except do not use GGBF slag to reduce the quantity of Type IS or I(SM) cement.
SUBSECTION:	601.03.04 Classes and Primary Uses.
PART:	P) Non-Shrink Grout.
REVISION:	Replace with the following: Bonding and sealing for post-tensioning, tie-back rods and bolts, and box beams.
SUBSECTION:	601.03.09 Placing Concrete.
PART:	A) General.
REVISION:	Add the following to the fifth paragraph: When pumping, equip the delivery pipe with a nozzle, having a minimum of 2 right angles, at the discharge end.
SUBSECTION:	601.03.09 Placing Concrete.
PART:	D) Weather Limitations.
REVISION:	Replace the first sentence of the second paragraph with the following: Maintain the temperature of the mixture at or below 90 °F during placement. Unless the Engineer determines that safety concerns or other considerations prohibit a shutdown, cease concrete production when the mixture exceeds 90 °F until adequate methods are in place to reduce or maintain the mixture temperature.
SUBSECTION:	601.03.15 Opening to Traffic.
TABLE:	Required Time in Calendar Days Before Applying Significant Loads on Concrete Structures
REVISION:	Change the title of the seventh item to the following: Caps on Concrete Pile Bents, Open Column Abutments, and Piers
SUBSECTION:	606.02 MATERIALS AND EQUIPMENT.
REVISION:	Add the following subsection: 606.02.11 Coarse Aggregate. Conform to Section 805, size 9-M.
SUBSECTION:	607.03.05 Bolted Connections Using High-Strength Steel Bolts.
PART:	B) Direct Tension Indicators.
REVISION:	Replace the first two sentences of the third paragraph with the following: Under normal conditions, install the tension indicator under the non-turned element of the fastening system. Obtain the Engineer's permission before installing tension indicators under the turned element. If the Engineer determines that it is necessary to install the tension indicator under the turned element, install additional hardened washers according to the manufacturer's instructions. Add the following to the end of the fourth paragraph: The fastener assembly may also need to be replaced.

SUBSECTION:	607.03.08 Planing and Finishing.
PART:	B) Flame Cutting.
REVISION:	Replace the first sentence of the second paragraph with the following: Remove roughness exceeding these values and occasional notches or gouges no more than 3/16 inch deep, on otherwise satisfactory surfaces, by machining or grinding.
SUBSECTION:	607.03.23 Cleaning and Painting.
PART:	D) Preparation for Field Coatings.
REVISION:	Replace the second and third paragraphs with the following: After erection, including all bolting and remedial work, prepare the shop applied zinc coating for field applied intermediate coating as follows. Remove all grease, oil or other lubricants from all surfaces to be painted including lubricant or residuals from the surfaces of all galvanized nuts, bolts and washers by solvent cleaning according to SSPC SP 1. When dry overspray from the shop applied zinc coating exists, remove by sanding. High pressure water wash all structural steel at 4,500 to 5,000 psi. using clean potable water. As needed, use a non-sudsing, bio-degrable detergent to remove all surface contaminants not removed by high pressure water washing. Rinse all areas where a detergent and/or solvent was applied by pressure washing with clean potable water. Blast clean all surfaces sustaining damage to the shop applied zinc coating to the pictorial standards described in subsection B. Apply a field coat of approved zinc rich coating to all areas not possessing an acceptable shop applied zinc coating. Completely remove all rust, scale and other foreign material before applying the intermediate coating. When application of the finish coat exceeds the recoat window of the intermediate coat, abrade the surface of the intermediate coat according to the coating manufacturer's recommendations before applying the finish coat.
SUBSECTION:	607.03.23 Cleaning and Painting.
PART:	E) Application of Field Coatings.
REVISION:	Replace the second paragraph with the following: Apply paint only to clean and dry surfaces when the ambient air temperature is 40 °F or greater, the surface temperature of the steel members to be painted is at least 5 °F above the dew point, and the relative humidity is less than 90 percent. Do not apply paint to damp or frosted surfaces, nor during any period of rainfall. Replace the fifth paragraph with the following: Paint from the top of the structure toward the bottom, and proceed by sections, bays, or parts of the work, unless the Contract or Engineer directs otherwise.
SUBSECTION:	611.02.01 Concrete.
REVISION:	Replace the first sentence with the following: Conform to ASTM C 1433.
SUBSECTION:	611.03.01 Transportation and Handling.
REVISION:	Replace the first sentence with the following: Handle and store the precast units so that flexural stresses are not induced until the concrete age is 7 days or attains a compressive strength of 3,000 psi.
SUBSECTION:	611.03.02 Precast Unit Construction.
REVISION:	Add the following: 4) Contrary to ASTM C 1433 Section 10.3, assure the compressive strength of the cores tested are equal to or greater than the design strength.
SUBSECTION:	611.03.07 Joints.
PART:	A) Rubber Gaskets.
REVISION:	Replace the title with the following: A) Butyl Rubber Sealant.

SUBSECTION:	611.03.07 Joints.
PART:	B) Flexible Plastic Gaskets.
REVISION:	Replace the title with the following: B) Rubber Gaskets.
SUBSECTION:	613.05 PAYMENT.
REVISION:	Replace 8160 Structure Excavation with the following: 2203 Structure Excavation Unclassified
SUBSECTION:	614.02.01 Paint.
REVISION:	Add the following: Furnish a paint system in which all coats are produced by the same manufacturer and use the same system throughout the entire project.
SUBSECTION:	614.03.06 Paint Application.
REVISION:	Replace the first sentence of the fourth paragraph with the following: Paint from the top of the structure toward the bottom, and proceed by sections, bays, or parts of the work, unless the Contract or Engineer directs otherwise.
SUBSECTION:	701.02.03 Joint Materials.
PART:	D) Flexible Plastic Gaskets.
REVISION:	Replace with the following: D) Butyl Rubber Sealants. Conform to Section 807.
SUBSECTION:	701.02.04 Bedding Materials.
REVISION:	Replace the first sentence with the following: Use No. 8 aggregate, No. 9 aggregate, or a fine aggregate conforming to Subsection 804.08 for bedding material.
SUBSECTION:	701.02.04 Bedding Materials.
TABLE:	A1, A2, and A3 Characteristics
REVISION:	Under A3, replace "51 max" with "51 min"
SUBSECTION:	702.03.05 Joints.
PART:	A) Reinforced Concrete Pipe.
NUMBER:	2) Rubber Gaskets.
REVISION:	Replace with the following: In addition to the requirements of Subsection 701.02, use a pipe section conforming to AASHTO M 315. Use the gasket manufacturer's recommended cement and lubricant. Snugly fit the rubber-gasket in the beveled surface of the tongue and groove ends of the sections to form a flexible seal under all conditions of service.
SUBSECTION:	701.03.05 Joints.
PART:	B) Corrugated Metal Pipe.
REVISION:	Void the Revision and replace with the following: Construct joints using a band with annular corrugations and a bolt, bar and strap connection. Use a minimum nominal band width of 12 inches for all pipe diameters 54 inches and smaller. Use a two-piece band with a minimum nominal width of 20 inches for all pipe diameters greater than 54 inches. Manufacture the band from the same base materials as the pipe. The pipe bands may be up to two gauges lighter than the pipe it is joining, with a minimum gauge thickness of 16. The Department may allow dimple band connections for field cut pipe. Install the connecting bands according to the manufacturer's written recommendations.
SUBSECTION:	703.02.09 Geotextile Fabric.
REVISION:	Replace Section reference 845 with 843.

SUBSECTION: 703.04.08 Geotextile Fabric.
REVISION: Add the subsection:

703.04.08 Geotextile Fabric. The Department will measure the quantity according to Subsection 214.04.

SUBSECTION: 710.02 MATERIALS.
REVISION: Add the following Subsection:

710.02.15 High Density Polyethylene (HDPE) Adjusting Rings. Conform to Section 846.

SUBSECTION: 710.03.01 Newly Constructed Small Drainage Structures.
PART: A) General.
REVISION: Replace the last sentence of the sixth paragraph with the following:

Use precast concrete, precast concrete pipe sections, cast-in-place, brick, or HDPE adjusting rings for adjustment of existing manholes according to the Standard Specifications.

SUBSECTION: 710.03.01 Newly Constructed Small Drainage Structures.
PART: B) Precast Structures Except Manholes.
REVISION: Replace the first two sentences with the following:

Only furnish products manufactured by a precast producer listed in the Department's List of Approved Materials. If the producer does not have an approved drawing for the product, submit 5 copies of shop drawings to the Engineer for review and approval.

SUBSECTION: 710.03.03 Adjusted Small Drainage Structures.
REVISION: Add the following sentence to the end of the first paragraph:

For HDPE adjusting rings, install and seal according to the manufacturer's recommendations.

SUBSECTION: 712.03.02 Type V Markers.
REVISION: Replace the first sentence of the first paragraph with the following:

Install Type V_o Markers in slots cut into the pavement according to the manufacturer's recommendations.

Delete the last paragraph.

SECTION: 713 PERMANENT PAVEMENT STRIPING.
REVISION: Add the following subsection:

713.03.06 Acceptance of Non-Specification Markings. If weather conditions allow, perform corrective work to bring striping retroreflectivity into conformance. If corrective work has been performed and the work meets all requirements except for minimum retroreflectivity, the Department may accept the work according to Subsection 105.04. When the Engineer determines that the markings may be left in place, the Department will accept them at a reduction in the Contract unit bid price according to the Acceptance Pay Schedule. Additionally, the Engineer may remove the striping crew for the remainder of the project according to Subsection 108.06 Part A).

The Engineer may also apply this section when corrective work cannot be performed due to weather.

Acceptance Pay Schedule – White
156 to 174 mcd/lux/square meter – 50% pay
138 to 155 mcd/lux/square meter – 25% pay
120 to 137 mcd/lux/square meter – 0% pay
< 120 mcd/lux/square meter – unacceptable

Acceptance Pay Schedule – Yellow
126 to 149 mcd/lux/square meter – 50% pay
103 to 125 mcd/lux/square meter – 25% pay
80 to 102 mcd/lux/square meter – 0% pay
< 80 mcd/lux/square meter – unacceptable

SUBSECTION:	713.03 CONSTRUCTION.
REVISION:	Replace the MUTCD references to "Part III" with "Part 3"
SUBSECTION:	714.02.03 Binder.
REVISION:	Replace the last sentence with the following: Submit the material and method of application to the Engineer and obtain written approval from the Engineer and the manufacturer of the pavement marking material before applying.
SUBSECTION:	714.03 CONSTRUCTION.
REVISION:	Replace the MUTCD references to "Part III" with "Part 3" and figure references to "3-11 and 3-12" with "3B-8 and 3B-9"
SUBSECTION:	714.03.01 Layout.
REVISION:	Replace the MUTCD reference to "Part III" with "Part 3"
SUBSECTION:	714.03.03 Application.
PART:	A) Type I Tape.
REVISION:	Add the following: When applied to concrete, cut the tape at all joints.
SUBSECTION:	714.03.04 Restrictions.
REVISION:	Replace the first paragraph with the following: Do not apply the pavement marking material when air and pavement temperatures are below 50 °F. Delete the third paragraph.
SUBSECTION:	714.03.06 Proving Period for Durable Markings.
PART:	A) Requirements.
NUMBER:	1) Type I Tape.
REVISION:	Add the following: Type I Tape is manufactured off site and warranted by the manufacturer to meet certain retroreflective requirements. As long as the material is adequately bonded to the surface and shows no sign of failure due to the other items listed in Subsection 714.03.06 A) 1), retroreflectivity readings will not be required. In the absence of readings, the Department will accept tape based on a nighttime visual observation.
SUBSECTION:	714.05 PAYMENT.
REVISION:	Replace with the following: The Department will make payment upon completion of the work. If after the proving period the markings do not meet minimum retroreflectivity requirements, the Department will adjust the payment or require corrective work according to the following:
SECTION:	804.03 Concrete.
REVISION:	Replace the last sentence with the following: The Department will waive the requirements for gradation, sand equivalent, and uncompacted voids for concrete pipe.
SUBSECTION:	804.04.04 Requirements for Combined Aggregates.
PART:	B) Sand Equivalent.
REVISION:	Replace the third paragraph with the following: The Department may waive the sand equivalent requirement provided the portion of the combined aggregate passing the No. 40 sieve is non-plastic according to AASHTO T 90.
SUBSECTION:	804.04.04 Requirements for Combined Aggregates KM.
TABLE:	Superpave Fine Aggregate Consensus Property Requirements.
REVISION:	For ESAL Class 1, Replace both dashes with 40.
SUBSECTION:	805.03.01 Soundness and Shale.
PART:	AGGREGATE USE/Portland Cement Concrete Mixtures.
REVISION:	Replace the title use "Class AA, Class S and Bridge Deck Overlays" with "Aggregate for Bridge Decks, Bridge Deck Overlays, and Bridge Barrier Walls"

SECTION: 805 COARSE AGGREGATES.
TABLE: Sizes of Coarse Aggregates.
REVISION: Replace KM 64-420 in footnote (1) with KM 64-620.

SECTION: 805 COARSE AGGREGATES.
TABLE: Aggregates Size Use.
REVISION: For Cement Concrete Structures and Incidental Construction add 9-M for Overlays to the sizes to be used column.

SUBSECTION: 805.03.03 Gradation.
REVISION: Replace the last sentence with the following:

The Department will allow blending of same source/same type aggregate to achieve designated sizes when precise procedures are used such as cold feeds, belts, weigh hoppers, or equivalent.

SUBSECTION: 805.03.04 Erodible or Unstable Material.
REVISION: Add the subsection:

805.03.04 Erodible or Unstable Material. Treat as applicable. The Department considers Size No. 57 or larger aggregate, except crushed or uncrushed gravel, non-erodible. The Department considers the following materials to be erodible or unstable:

1) Friable sandstone. The Engineer determines when sandstone is friable or non-friable.
2) Crushed or uncrushed gravel, any size.
3) Crushed coarse aggregate smaller than Size No. 57.
4) Any material with 50 percent or more passing the No. 4 sieve.

SUBSECTION: 805.04 CONCRETE.
REVISION: Replace the second paragraph with the following:

The Department will waive the requirements for gradation and finer than No. 200 for concrete pipe.

SUBSECTION: 805.10 GRANULAR EMBANKMENT.
REVISION: Replace "2 ½-inch" with "12-inch".

SUBSECTION: 805.10 GRANULAR EMBANKMENT.
PART: 1)
REVISION: Replace with the following:

1) Engineer approved shot limestone or sandstone from roadway excavation, borrow excavation, or another approved source.

SUBSECTION: 805.11 STRUCTURE GRANULAR BACKFILL.
REVISION: Replace with the following:

Provide crushed or uncrushed aggregate meeting the quality requirements of this section. When the material includes a significant amount of individual fragments greater than 1 ½ inches, the Engineer may visually accept the minus No. 200 portion. Conform to the following gradation:

Sieve Size	Percent Passing
4 inch	100
No. 4	0-10
No. 200	0-5

SUBSECTION: 805.13.03 Channel Lining, Class IA.
REVISION: Replace the first sentence with the following:

Provide crushed stone meeting the general requirements of this section.

SUBSECTION: 805.13.03 Channel Lining, Class II.
REVISION: Replace the first sentence with the following:

Provide crushed stone meeting the general requirements of this section.

SUBSECTION: 805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE.
TABLE: GRADATION – COARSE AGGREGATES FOR UNDERDRAINS
REVISION: Replace "No. 200" sieve with "No. 100".

SUBSECTION: 810.03.04 Extra Protection
REVISION: Replace "mm" in the second sentence of the third paragraph with "inches".

SECTION: 810.03 REINFORCED CONCRETE PIPE.
REVISION: Add new subsection:

810.03.07 Concrete. Submit Concrete Mix Design to the Central Office Materials.

SECTION: 812.01.01 Structural Steel, All Types.
REVISION: Replace second sentence with the following:

When the supplementary requirement of this specification are specified, they exceed the requirements of ASTM A 36, A 514, A 572, A 588, and ASTM A 852.

SUBSECTION: 812.01.01 Structural Steel, All Types.
PART: A) Structural Steel.
REVISION: Delete AASHTO M 183.

SUBSECTION: 812.01.01 Structural Steel, All Types.
PART: B) High-Strength Low-Alloy Columbium-Vandium Steels of Structural Quality.
REVISION: Delete AASHTO M 223.

SUBSECTION: 812.01.01 Structural Steel, All Types.
PART: C) High-Strength Low-Alloy Structural Steel with 345 Mpa Minimum Yield Point to 4 Inches Thick.
REVISION: Delete AASHTO M 222.

SUBSECTION: 812.01.01 Structural Steel, All Types.
PART: E) High-Yield-Strength, Quenched and Tempered Alloy Steel Plate, Suitable for Welding.
REVISION: Delete AASHTO M 244.

SECTION: 813.08.05 Aluminum Alloy Rolled or Extruded Shapes.
REVISION: Replace "T-4 AND T6" with "T6".

SUBSECTION: 813.09.02 High-Strength Steel Bolts, Nuts, and Washers.
PART: A) Bolts.
REVISION:

	HARDNESS NUMBER			
Bolt Size (in)	Brinell		Rockwell C	
	Min	Max	Min	Max
½ - 1	253	319	25	34

SUBSECTION: 813.13 MATTRESSES AND GABIONS.
REVISION: Replace the first sentence of the first paragraph with the following:

Conform to ASTM A 975, Style 1 or ASTM A 974, Style 1 or 2.

SUBSECTION: 814.04.01 Steel Guardrail Posts.
REVISION: Replace AASHTO M 183 in the first sentence with ASTM A 36.

SUBSECTION: 814.05.02 Composite Plastic.
REVISION: Add the following sentence to the first paragraph:

Rubber is an acceptable alternate to plastic in their composition.

SUBSECTION: 814.06 MATERIALS FOR END TREATMENTS.
PART: D) Steel Sheet (for rail plates and mounting brackets).
REVISION: Replace 570, Grade D with the 1011, Type SS, Grade 36.

SUBSECTION: 816.02 GENERAL.
REVISION: Replace ASTM D 2521 with ASTM A 239.

SUBSECTION: 816.02.02 Aluminum-Coated Steel.
REVISION: Replace 0.01 with 0.099.

SUBSECTION: 819.01.01 Steel Plates.
REVISION: Replace "Paragraph 14" in the second sentence of the second paragraph with "Table 6".

SUBSECTION: 821.03 SAMPLING AND TESTING.
REVISION: In the third sentence of the first paragraph, replace calendar days with working days.

SUBSECTION: 827.04 PERMANENT SEED.
REVISION: Replace with the following:

Conform to the requirements outlined in the "Kentucky Seed Law and Provisions for Seed Certification in Kentucky" and the "Regulations under the Kentucky Seed Law", with following exceptions:

1. Obtain seed only through registered dealers that are permitted for labeling of seed.
2. Ensure all deliveries/shipments of premixed seed are accompanied with a master blend sheet.
3. The Department may sample the seed at the job site at any time.
4. Ensure all bags and containers have an acceptable seed tag attached.

Do not use seed (grasses, native grasses and legumes) if the weed seed is over 2%, total germination (including hard seed) is less than 60%, if the seed test date is over 9 months old exclusive of the month tested, or if the limits of noxious weed seed is exceeded.

Ensure that noxious weed seeds contained in any seed or seed mixture does not exceed the maximum permitted rate of occurrence per pound.

Name of Kind	Max. No. Seeds (per pound)*
Balloon Vine (Cardiospermum Halicacabum)	0
Purple Moonflower (Ipomoea turbinata)	0
Canada Thistle (Cirsium Arvense)	0
Johnsongrass (Sorghum Halepense and Sorghum Almum and perennial rhizomatous derivatives of these species)	0
Quackgrass (Elytrigia Repens)	0
Annual Bluegrass (Poa Annua)	256
Buckhorn Plantain (Plantago Ianceolata)	304
Corncockle (Agrostemma Githago)	192
Dodder (Cuscuta spp.)	192
Giant Foxtail (Setaria Faberii)	192
Oxeye Daisy (Chrysanthemum Ieucanthemum)	256
Sorrel (Rumex Acetosella)	256
Wild Onion and Wild Garlic (Allium spp.)	96

* Seed or seed mixtures that contain in excess of 480 total noxious seeds per pound is prohibited Wildflower seed shall not be planted until approved by the MCL.

SUBSECTION: 832.02 TYPE I POSTS.
REVISION: Replace ASTM A 570 with ASTM A 1011.

SECTION: 840 RAISED PAVEMENT MARKERS
REVISION: Replace the section with the following:

840.01 TYPE IV MARKERS. Provide markers from the Department's List of Approved Materials. Type IV markers are replacement lenses for use in Type V marker castings.

840.02 TYPE V MARKERS. Provide markers from the Department's List of Approved Materials. Type V markers consist of an iron casting with a Type IV marker (mono or bi-directional) attached.

840.03 TYPE IVA MARKERS. Provide markers from the Department's List of Approved Materials. Type IVA markers are surface mounted lenses for temporary use in work zones.

840.04 SAMPLING. Obtain a manufacturer's certification for each shipment. Include with each shipment of adhesive a written statement from the manufacturer certifying that it conforms to the recommendations of the marker manufacturer, and stating the minimum temperature the adhesive can be satisfactorily mixed and applied.

840.05 PACKAGING. Suitably and substantially package all materials with the name and address of the manufacturer and vendor, contract or purchase number, kind of material, trade name, and net contents plainly marked on each package.

SUBSECTION: 843.01.01 Geotextile Fabric.
REVISION: Add the following sentence to the first paragraph:

Use circular-knit geotextile conforming to ASTM D 6707 for perforated pipe socks.

Add the following sentence to the third paragraph:

The manufacturer must participate in the National Transportation Product Evaluation Program (NTEP) for Geotextiles and Geosynthetics.

SUBSECTION: 843.01.01 Geotextile Fabric.
PART: C) Acceptance.
REVISION: Delete the burst strength requirement from each table.

SUBSECTION: 845.02.03 Wrapping.
REVISION: Replace Section 845 with Section 843, Type II.

SECTION: 846 HIGH DENSITY POLYETHYLENE (HDPE) ADJUSTING RINGS
REVISION: Add New Section:

846.01 RESIN. Use a recycled polyethylene plastic or virgin resin producing a molded part meeting the following requirements:

Melt Flow Index (ASTM D 1238)	4.0-10.0 g/10min
Density (ASTM D 792)	0.941-0.965 g/cm^3
Tensile (ASTM D 638)	2000-5000 lb/in^2
ESCR (ASTM D 1693)	Condition C

846.02 LOADING. Ensure the adjustment rings meet or exceed the loading requirements of AASHTO'S Standard Specification for HS-25 wheel loading for Highway Bridges.

SPECIAL NOTES
FOR

FE04 121 DW03 0000008

WATERBORNE PAINT STRIPING SPECIFICATIONS for FY 2003
DISTRICT 9 (FLEMINGSBURG)
FE04 121 DW03 0000008

GENERAL PROVISIONS

Work performed under this contract shall be in conformance with Commonwealth of Kentucky, Transportation Cabinet, Department of Highways' Standard Specifications for Road and Bridge Construction, 2000 Edition, applicable Special Provisions and general specifications included in this proposal. The U.S. Department of Transportation's Manual on Uniform Traffic Control Devices (MUTCD), Current Edition, with all published changes and additions shall also apply to this contract.

SCOPE OF WORK

The work performed under this contract shall consist of furnishing and applying waterborne paint, reflectorized with glass beads, to the sections of roadway to be provided at the pre-construction meeting. This contract is for the installation of centerlines, lane lines, edgelines, and gore markings only. Special markings such as stop bars, crosswalks, cross-hatching, railroad markings, etc. are not to be installed under this contract.

Intersection approach markings such as the edgelines of large painted islands or edgelines on mountable medians may be included at the discretion of the Engineer provided they can be painted by the striping truck. Markings that would require application by equipment other than the striping truck are not to be installed under this contract.

The vast majority of the work performed under this contract will consist of retracing existing lines. The Department will be responsible for pre-marking any section of roadway where the old markings are no longer visible or where the existing markings are to be changed. Edgelines shall not be installed on any section of roadway where edgelines do not currently exist without authorization from the Engineer.

QUALITY CONTROL/QUALITY ASSURANCE

The Contractor is responsible for Quality Control (QC) and will establish and maintain an effective quality control plan.

The Contractor shall designate a Quality Control Coordinator for the project who will be the contact person for any questions or concerns regarding the quality of the work performed under this contract. The Quality Control Coordinator shall:

- Hold current qualification from the Department as a Pavement Marking Inspection Technician;
- Plan and oversee the Contractor's evaluation of the lines applied on the project;

- Perform KM-202, for all striping applied and provide completed test reports to the Engineer;
- Adjust the application process to consistently produce the quality of line desired;
- Notify the Engineer of any changes in the striping work plan that are determined necessary;
- Inform and mobilize crews to complete restriping or corrective work (after notification by the Department);
- Supply the appropriate certifications for paint and beads to the Engineer assigned to the particular project ;
- Track the quantities of materials supplied by the vendors and applied by the painting crew; and
- Meet with the Engineer to discuss and/or conduct field reviews on the project throughout the execution of the contract.

At the Pre-construction Conference, the Contractor shall furnish the Department a quality control plan that covers in detail the following items:

- the name, address, phone and fax numbers for the Quality Control Coordinator;
- the names of individuals other than the Quality Control Coordinator taking readings in accordance with KM202 (these people shall hold qualification from the Department as Pavement Marking Inspection Technicians)
- an overall work plan which states the estimated starting and completion dates for the entire project, the number of crews to be used on the project and a general description of how the project will be completed;
- a description of the striping equipment to be used on the project, including make and model of each striper, minimum and maximum operating speeds, and type of instruments to be used to calibrate the flow of paint and beads;
- the frequency and method to be used to monitor application rates and quality of the line (specifically with regard to retroreflectivity, width, thickness, bead distribution, tracing accuracy, etc.);
- a list of paint(s) and bead(s) to be used in this contract along with a statement from the paint manufacturer that indicates the application temperature of the paint, the recommended ambient and road temperatures, and guidelines for any other environmental factors that would adversely affect the successful performance of the paint; and
- the contact person, phone and fax numbers for reporting claims for paint on vehicles.

Acceptance of the Contractor's quality control plan is required prior to the start of work. The Department reserves the right to require the Contractor to make changes in his quality control plan and operations to obtain the quality specified in the contract.

After acceptance by the Department, the Contractor shall notify the Engineer in writing of any proposed change. Proposed changes are subject to acceptance by the Department.

The Department will perform Quality Assurance (QA) testing on (at least) 20% of the test data submitted by the Contractor. QA testing is intended to verify the Contractors QC test data. Upon receipt of the Contractors' test report for a section, the QA Inspector will randomly select (at least) 20% of the segments for evaluation and test in accordance with KM202 (with the exception of the evaluation period if greater than 60 days old) within 2 weeks of the QC testing. The Inspector will evaluate zones within the segments designated by the QC test report.

The Department will base payment on the Contractor's QC test results if:

- the QC results (for each segment evaluated) are passing and
- the QC and QA mean values differ by less than 10%.

If a dispute should arise regarding the acceptability of the Contractor's QC test results the dispute resolution shall be conducted as follows:

1. If the retroreflectivity values obtained during the QA testing indicate failure within the segment or the mean values differ by more than 10 %; the Contractor and the QA Inspector will compare the readings taken with the two instruments. Additional readings will be taken within that segment, if necessary.

2. If the variance between QC and QA testing does not indicate a change in the pay quantities for the segment (i.e. QC and QA readings are both passing but there is more than a 10% difference between the mean values) no additional readings will be necessary. However, an effort should be made as soon as possible, when a discrepancy between mean values is greater than 10%, to determine what has caused the discrepancy and how it can be resolved.

3. If the variance between QC and QA testing does indicate a change in the pay quantities for the section (i.e. QC readings are bonus and QA readings are only passing and there is more than a 10% difference between the mean values) additional readings will be necessary. To obtain additional readings, the QC and the QA will establish new zones, within the segments in question, to represent the section of striping. The QC and QA inspectors will perform the required evaluations on these zones together.

4. If the mean of the readings taken during the evaluation (detailed in Section 3) do not agree (within the allowed 10% variance) and there is a dispute regarding the pay factor; or if resolution to the variance cannot be reached by the QC and QA Inspectors; additional testing along with the QC and QA inspectors, will be performed by the Central Office Division of Traffic and/or Division of Materials to resolve the dispute. The readings obtained by the Central Office representatives will be taken in accordance with KM202 (with the exception of the evaluation period if greater than 60 days old). The readings will be obtained within two weeks of a written request from the District Quality Assurance Inspector and the Contractors' Quality Control Inspector for all sections in dispute. The readings taken by Central

Office personnel will be used to determine whether the original QC or QA readings will be considered final for the sections in dispute and payment will be based on those original readings.

The Department reserves the right to take over the QC portion of testing. In the event that the Department exercises this option, the Contractor will incur the cost of testing performed by the Department.

The Department will furnish the Contractor with a blank copy of the Contractors Daily Striping Report (DSR). The Contractor shall complete and furnish this DSR to the Resident Engineer's office daily for each crew for each color. The information on the DSR shall reflect the milepoints and quantities for striping completed for that day for that crew. The Contractor shall also include with the DSR the paint certification for paint used on that day's striping.

MATERIALS

Select Materials for this project to meet the performance requirements detailed in this contract document. Initial samples must be submitted for approval prior to initiation of the striping operation. The initial sample may be sent from the manufacturer of the paint. The following compositional requirements will be evaluated on samples randomly obtained by Department representatives during each week that striping operations are in progress:

PAINTS		YELLOW	WHITE
(1)	COLOR:	Fed Std. 595B-38907	Fed. Std. 595B-37925
(2)	LEAD:	< 5ppm	<5ppm
(3)	TiO_2:	NA	10% by wt. of pigment min.
(4)	VOC:	150-g/liter max.	150-g/liter max.
(5)	CONTRAST RATIO (MIN):	0.97	0.99

Test Methods to be used in the determination of these properties:

(1) *Allowable variation of the color, measured in the laboratory, will be 2.0 ΔE_{cmc} from the referenced standard color. These values shall be obtained from a spectrophotometer utilizing a D65 illuminant at 45° illumination and 0° viewing with a 2° observer. Readings will be taken only over the black portion of the Leneta sheet on a 15 mil (wft) draw down.*

(2) *ASTM D 3335* *"Low Concentrations of Lead, Cadmium and Cobalt in Paint by Atomic Absorption Spectroscopy"*

(3) *ASTM D 4764* *"Determination by X-Ray Fluorescence of Titanium Dioxide Content in Paint"*

(4) *ASTM D 2369* *"Test Method for Volatile Content of Coatings"*
And
ASTM D 4017 *"Test Method for Water in Paints and Paint Materials by Karl Fischer Method"*

(5) *ASTM D 2805* *"Hiding Power of Paints by Reflectometry"* with the following exceptions the contrast ratio will be determined on a 15 mil (wft) draw down (on a Lenata form 2c), allowed to dry for 16 to 24 hours at 73 ± 2° F, and 50% relative humidity.

If randomly obtained samples do not meet the compositional criteria, the following deductions will be assessed to the striping bid items for the routes where the failing paint was used:

COLOR: 10% each day used

LEAD: 60% each day used

TiO_2:	10% each day used
VOC:	60% each day used
CONTRAST RATIO:	10% each day used

If the contractor cannot produce documentation detailing the number of days the failing material was used on this project, the deduction will be based on the quantity of striping that the failing batch of paint represents. The percentage deduction for use of materials which do not meet the compositional criteria will be cumulative, but will not exceed 60% of the payment for the striping bid items for the routes where the failing paint was used.

If two random samples fail to meet minimum compositional requirements, striping operations will be discontinued. Before the Contractor is allowed to resume striping, the Department will randomly sample and test each lot of paint the contractor has in stock at the storage location.

For lots of paint that fail to meet the minimum compositional criteria, the stock material will be rejected. The contractor will be required to remove all failing paint from his central storage location. Lots that are tested and found to be in compliance with the compositional requirements may be used.

BEADS: Beads will only be evaluated as part of the system (through retroreflectivity readings). Testing of the coatings, gradation and initial quality of the product applied shall be the responsibility of the contractor.

EQUIPMENT

The Contractor's striper shall be equipped with electrical foot counters. The counters shall individually tabulate the amount of footage applied by each striping gun on the carriage, whether solid or dashed. The counters shall be capable of measuring up to six digits and shall have a reset feature. The counters shall be calibrated in the presence of the Engineer to insure an accurate measurement of the paint applied.

The Contractor's striper shall be equipped with an accurate dashing mechanism, capable of being adjusted to retrace existing lane line or centerline markings as directed by the Engineer. The striper shall also be equipped with a detection device that will automatically cutoff the paint guns when a raised pavement marker is detected in the pavement. The Contractor, at their own expense, shall replace or adequately clean any pavement marker lens that is painted.

The Contractor's striper shall be equipped with a paint metering system which is capable of measuring the gallons of paint used on a particular segment of roadway and the accumulated daily usage. The Contractor's striper shall also be equipped with a calibrated measuring device for measuring material in the striper tanks.

The Contractor shall provide a separate sweeping unit powerful enough to remove normal highway dirt and debris. This unit shall not be a part of the striping truck. All surfaces shall be swept prior to painting and far enough in advance of the striper so as not to cause dust to mix with the paint. Where, in the opinion of the Engineer, abnormal amounts of material have accumulated beyond the capability of the required sweeping unit which will require shoveling or other means to remove, the Engineer will make arrangements, prior to painting, to have the material removed by the Department or that section of roadway will be deleted from the contract.

If quality problems persist, the Engineer may require the Contractor to provide detailed operating instructions from the manufacturer of the striping equipment. The Contractor shall then be required to operate the striping equipment within the suggested operating guidelines of the manufacturer, with particular emphasis on the speed of the striping operation, or make other adjustments until the quality of the striping is satisfactory to the Engineer.

APPLICATION OF STRIPING

All pavement markings shall be installed in accordance with Part III of the MUTCD and these specifications. Roadways shall be marked with 4", 6", 8" and 12" lines as indicated in the plans. The four-inch line shall not be less than four inches nor more than five inches in width. The six-inch line shall not be less than six inches nor more than seven inches in width. All of the Interstate and Parkway system shall be marked with six-inch lines. Gore area markings shall be installed at twice the width of the normal line width on that portion of roadway. All lines shall have distinct, clean edges with proper bead distribution across the entire width and length of the line.

Passing zones and lane lines shall be installed as a 10' segment of paint with a 30' gap. The length of the 10' segment shall not be less than 10' nor longer than 10 feet 6 inches. The stripe-gap cycle shall not be less than 39 feet 6 inches nor longer than 40 feet 6 inches.

Paint shall be applied at a minimum rate of 16.5 gallons per mile of solid four-inch line and 24.8 gallons per mile of solid six-inch line to produce a minimum thickness of 15 mils. Glass beads shall be applied at a minimum rate of six pounds per gallon of paint.

If the Engineer determines that the quality of the striping applied by the Contractor is unsatisfactory with regard to retroreflectivity, bead distribution, paint thickness, overspray, accuracy of retracing, line width, consistency, tracking, etc., he may stop the striping operation immediately until the Contractor can demonstrate that the problem has been corrected. Substantial quantities of poor quality striping, as determined by the Engineer, shall be considered a "striping error" and shall be handled as below.

Any striping error that requires removal of a line applied by the Contractor shall be removed, at the Contractor's expense, by a removal method approved by the Engineer.

This removal process shall be done in a manner that shall not be detrimental to the pavement. Painting over the line with bituminous or other materials to obliterate the markings will not be allowed. Upon notification of a striping error by the Engineer, the Contractor shall be required to begin the process of correcting the striping error within five working days and shall work continuously to complete the corrective work prior to striping any other section of roadway included in this contract. Liquidated damages, as outlined in the Standard Specifications, shall apply for each day beyond the five working days that the Contractor has not begun to correct the striping error or continuously worked to complete the corrective work.

The Contractor shall be responsible for the appropriate disposal of all paint containers, waste products, etc. The Contractor shall also be responsible for all necessary cleanup of any paint or other material that is spilled onto the pavement or elsewhere as a result of his operations.

The Contractor shall be responsible for protecting the line from traffic until dry to eliminate tracking. For the purposes of measuring retroreflectivity, the occasional incidence of tracking will be handled in accordance with KM 202. However, retroreflectivity readings will be taken on sections with substantial amounts of tracking and the readings will be used in the calculation of payment. If the contractor elects to use additional trail vehicles beyond what is specified in the TRAFFIC CONTROL PLAN, the additional cost shall be incidental to the bid item "Maintain and Control Traffic. "

PAINT ON VEHICLES

The Contractor shall be responsible for addressing disputes with the public regarding paint on vehicles that occur as a result of his operations. All complaints from the public shall be addressed in a timely manner and the Contractor must demonstrate a "good faith" attempt to resolve disputes to the satisfaction of the citizen. However, the Contractor shall have the right to dispute fault and refuse settlement in cases where the Contractor feels that paint on the vehicle was a result of negligence on the part of the citizen. Unresolved disputes involving paint on vehicles shall be handled through the legal system. The Department shall not be held responsible for paint on vehicles under any circumstances.

RETROREFLECTIVITY REQUIREMENTS

Although the paint used on this project will be tested by the Department for various compositional requirements and minimum acceptable application rates for paint and beads are specified elsewhere in this proposal, it shall be the responsibility of the Contractor to insure that all striping meets the retroreflectivity requirements specified in this contract.

Retroreflectivity readings will be taken only by qualified employees of the Department and Contractor who hold qualification from the Department as Pavement Marking Inspection Technicians or by a Department approved vendor. Portable readings will be taken in accordance with KM202.

The Department may choose to obtain retroreflectivity readings using a mobile retroreflectometer. Mobile retroreflectometer readings will be taken using a 30M-geometry instrument by a Department approved vendor in accordance with KM203.

The minimum retroreflectivity values are as follows:

Minimum Retroreflectivity Values		
Color	**Yellow –mcd/m^2/lux**	**White – mcd/m^2/lux**
LTL 2000	175	250
Mobile (30M-geometry)	150	225

The retroreflectivity values listed in this contract have been established taking into account the variances of the retroreflectivity measuring instruments. Therefore, no adjustments for variances will be made when using the measured retroreflectivity readings to determine acceptance or incentive payment.

Restriping will be required for striping that fails to meet the minimum retroreflectivity requirements. The provisions for restriping are described in the section of this contract entitled MEASUREMENT AND PAYMENT. Complete restriping within 30 calendar days after notification by the Engineer except that no striping will be performed after **October 15, 2003**. All aspects of this specification shall apply to lines that are repainted due to failure to meet the requirements of this specification including the retroreflectivity requirements.

Liquidated damages, as outlined in the Standard Specifications, shall be assessed for each day beyond the 30 calendar days that repainting is not completed and shall accrue until the **October 15, 2003** deadline. At that point, no additional striping will be performed and payment will be based upon the Payment Schedule.

SCHEDULING AND PRIORITY PAINTING

The contractor shall begin painting no later than **May 1, 2003.** At the Pre-construction conference, the Engineer may provide the contractor with a list of priority routes (not to exceed 10 percent of the total project estimate) which are to be painted prior to **June 1, 2003**. The painting of all scheduled routes shall be completed by **September 1, 2003.** The Contractor shall be assessed liquidated damages as outlined in Section 108.09 of the Standard Specifications for each calendar day that any of the scheduled routes are not painted with all lines.

The Contractor shall coordinate the daily striping schedule, in advance, with the

Engineer. Once priority routes (if any) are finished, work must be completed in a county, per color, prior to advancing elsewhere except when approved in writing by the Engineer. The Engineer may require the Contractor to prepare a written striping schedule for the entire project, taking into account the priority routes. If required, this schedule shall be presented to the Engineer prior to the commencement of work and shall be updated each week. If a written schedule is not required initially, the Engineer reserves the right to require that a written schedule be provided at any point during the execution of this contract. Also, the Contractor shall be accessible to the Engineer for the purposes of monitoring the Contractor's quality control, traffic control, and obtaining paint samples.

The Engineer may eliminate any route from the schedule if it is determined that the route does not require painting. Also, the Engineer may add additional routes deemed necessary to be painted.

MEASUREMENT AND PAYMENT

The Contractor will be paid for the actual linear miles (rounded to the nearest hundredth) of four-inch and six-inch solid line for each color applied, as determined by the Engineer. Payment for lines other than four-inch and six-inch in width shall be as follows:

8" LINES _____ 2.0 x RATE FOR 4" LINES

12" LINES _____ 2.0 x RATE FOR 6" LINES

Full payment to the Contractor for the bid item 4" and 6" PAVE STRIPING WB (COLOR) will be based upon successful compliance with the retroreflectivity requirements outlined in this proposal. The Contractor will be paid 60% of the payment for the bid item after application of striping to a particular section of roadway. The remaining payment will be made based upon the following procedure and the Payment Schedule:

The work completed in one day by one striping crew for each color will be considered a section. Each section will be divided into segments (according to KM 202 or KM 203) for the purpose of evaluating retroreflectivity.

1. If 80% or more of the readings taken within a segment are above the specified minimum retroreflectivity for each color, the segment will be considered as passing.

2. If a section is not accepted and less than 60% of the readings are above the specified minimum the contractor will be required to restripe. The restriping will be subject to the same requirements as the original striping.

3. If a section is not accepted and the number of passing readings is ≥ 60% and < 80%, the Contractor will be asked to restripe failing segments. The Contractor has the following options:

- Restripe segment at no additional cost to the Department; or
- If time does not allow for the segments to be restriped, accept deduction in payment for striping that has been determined below standard with the understanding that the Contractor may forfeit the incentive monies.

Payment Schedule

	Initial Payment	Final Payment	Total Payment
Passing	60%	40%	100%
Below Standard w/ deduction	60%	20%	80%
Failing	60%	0%	60%

Payment will not be made nor will retroreflectivity tests be conducted for lines that do not meet the minimum application rates for paint and beads. The contractor shall restripe these lines at his expense.

A deduction in payment will be made for using paint that fails to meet the required material composition requirements as outlined in the MATERIALS section of this specification.

INCENTIVE PAYMENT

The Contractor will be eligible for incentive payment based on the retroreflectivity for each color for the entire contract and the following requirements:

- all striping on the routes listed in the bid proposal, including any adjustments provided at the Pre-construction conference, is completed prior to the completion date of **September 1, 2003;**
- at least 95% of the total line miles striped under this contract shall be considered passing as defined in the measurement and payment section of this contract; and
- exceptional retroreflectivity has been achieved as defined in the table below.

Exceptional Retroreflectivity		
Yellow	LTL 2000	> 225
	Mobile	> 200
White	LTL 2000	> 300
	Mobile	> 275

The Department will calculate the incentive payment by multiplying the payment for the total line miles striped for each color by the appropriate Pay Value listed in the "Exceptional Retroreflectivity Adjustment Schedule" below:

Exceptional Retroreflectivity Adjustment Schedule

Percent of Readings in Exceptional Category	Pay Value
25 – 29	+0.05
30 – 34	+0.06
35 – 39	+0.07
40 – 44	+0.08
45 – 49	+0.09
≥ 50	+0.10

Incentive pay for each color will be calculated separately depending on the method by which the retroreflectivity readings were obtained (LTL 2000 or mobile readings). The retroreflectivity readings taken on lines that are restriped will replace the readings obtained on the initial striping for the purposes of calculating the incentive.

TRAFFIC CONTROL PLAN

Waterborne Paint Striping

1. Traffic shall be maintained in accordance with the MUTCD, the Standard Specifications for Road and Bridge Construction, and the Standard Drawings, current editions.

2. Contrary to Section 112 of the Standard Specifications, all items necessary to maintain and control traffic shall be included in the bid item "Maintain and Control Traffic."

3. Any temporary traffic control items, devices, materials, and incidentals shall remain the property of the Contractor, unless otherwise addressed, when no longer needed.

4. The Engineer will approve all signing before the Contractor can start work.

5. If the Contractor desires to deviate from the traffic control scheme outlined in the standard drawings, he shall prepare an alternate plan and present it in writing to the Engineer. This alternate plan can be used only after review and approval of the District and the Divisions of Traffic and Construction.

6. The Contractor's vehicles shall always move with and not across or against the flow of traffic. These vehicles will not be permitted to make U-turns at any location. The striper will not be permitted to stop and back down the road or ramps to stripe gore lines and turn lanes. Vehicles shall enter or leave work areas in a manner that will not be hazardous to, or interfere with, normal traffic flow. Vehicles shall not park or stop except within designated work areas. Personal vehicles will not be permitted to park within the right-of-way except in specific areas designated by the Engineer.

7. The paint supply truck shall not be allowed to operate as one of the traffic control vehicles shown on the standard drawings. If one of the required traffic control vehicles experiences mechanical problems or for some other reason is not available to remain in position as shown in the traffic control scheme, the striping operation shall cease until all required vehicles are in place.

8. Striping may not be permitted on any roadway during the peak times of the day, holiday periods, or special events as determined by the Engineer.

9. On two-lane, two-way highways, the Contractor shall make provisions to the satisfaction of the Engineer to periodically allow traffic to safely pass the train of vehicles in the striping operation.

10. In low speed, urban situations, the intermediate trail vehicle, shown between the striper and the final trail vehicle on the attached traffic control drawings, may be deleted at the discretion of the engineer.

EXTENSION OF CONTRACT

This contract may be extended for additional one year periods provided both the Department and the Contractor agree to exercise this option. The contract may be extended in one year increments for a total of two additional years after completion of the initial contract. The Department will initiate the offer to extend the contract after the completion of all striping and a review of the Contractor's performance from the prior year. The following **additional equipment will be required** in order to be eligible for a contract extension.

- The Contractor's **striper is equipped** with a **Data Logger System approved by the Central Office Division of Traffic**.
  - The Data Logger shall read the volume of paint consumed for each color. From the footage data and flow data, the data logger shall calculate, in real time, the gallons per mile of each color of paint. It shall also calculate the average wet film thickness for each line. A separate material usage device shall be used for each color. The Data Logger shall also record and display the ambient temperature and also the paint temperature. The data shall be recorded at the beginning of

each job and at a minimum of 1 mile increments and shall be stored for later printing. The Data Logger shall be capable of storing and supplying the necessary scaling and calibration parameters to the flow meters, and shall provide a means of adjusting the calibration factor as necessary. The Data Logger shall include a remote cab mounted display, which shall indicate gallons per mile of actual application and of film thickness.

If extended, the following new provisions will be included in the extended contract:

- **Unit bid prices will remain the same for each year this contract is extended.**
- **The datalogger reporting will be used as a quality control measure to ensure consistent application of striping**
- **Quantities to be striped the following year may be reduced as a result of the durability of the previous striping year.**

CONTRACT EXPIRATION

This contract will expire on **December 31 of the calendar year of the contract,** unless an extension of contract has been approved and processed for an additional one-year period.

PART II

SPECIAL PROVISIONS APPLICABLE TO PROJECT

SPECIAL PROVISION NO.	TITLE	
13	Crush Cushions (4-5-2000)	*

*These Special Povisions are included in the Supplemental Specifications.

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS
(Copies of each Attached)

1. Schedule of Minimum Wages Established for the Project.

2. Labor and Wage Requirements, applicable to other than Federal-Aid System Contracts. (Rev. 2-16-95)

3. Executive Branch Code of Ethics.

TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION

SHEET ONE
LETTING: 02-14-2003

PROJECT WAGE RATES
VARIOUS COUNTIES, FE04 121 DW03 0000008

Various Routes in Bath, Boyd, Carter, Elliot, Fleming, Greenup, Lewis, Mason, Nicholas and Rowan Counties only
Waterborne Paint Striping with QC/QA

	HIGHWAY BASIC HOURLY RATES	FRINGE BENEFIT PAYMENTS COMBINED
CRAFTS		
Bullitt, Carroll, Grayson, Hardin, Henry, Jefferson, Larue, Marion, Meade, Nelson, Oldham, Shelby, Spencer and Trimble Counties:		
Bricklayers	20.00	5.43
Bracken, Gallatin, Grant, Mason and Robertson Counties:		
Bricklayers	22.96	7.39
Boyd, Carter, Elliott, Fleming, Greenup, Lewis and Rowan Counties:		
Bricklayers	23.04	8.32
Anderson, Bath, Bourbon, Boyle, Clark, Fayette, Franklin, Harrison, Jessamine, Madison, Mercer, Montgomery, Nicholas, Owen, Scott, Washington and Woodford Counties:		
Bricklayers	18.75	5.55
Layout Men	19.00	5.55
Refractory/Acid Brick/Glass	19.25	5.55
Breckinridge County:		
Bricklayers	24.15	6.55
All Counties		
Carpenters:	21.45	6.13
Piledrivermen	21.70	6.13
Divers	32.55	6.13
Bracken and Grant Counties:		
Millwrights	21.90	7.92
Anderson, Bath, Bourbon, Boyle, Clark, Fayette, Franklin, Harrison, Jessamine, Madison, Mercer, Montgomery, Nicholas, Owen, Scott and Woodford Counties:		
Millwrights	19.50	9.53
Boyd, Carter, Elliott, Fleming, Greenup, Lewis, Mason, Robertson, and Rowan Counties:		
Millwrights	20.79	14.04
Breckinridge, Bullitt, Carroll, Gallatin, Grayson, Hardin, Henry, Jefferson, Larue, Marion, Meade, Nelson, Oldham, Shelby, Spencer, Trimble and Washington Counties:		
Millwrights	22.25	10.30
Bracken, Gallatin and Grant Counties:		
Electricians	23.53	7.20
Sound Communications:		
Installer	18.00	3.475
CablePuller	9.00	2.64

Three/Federal-State

TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION

PROJECT WAGE RATES **SHEET TWO 02-14-2003**

VARIOUS COUNTIES, FE04 121 DW03 0000008

	HIGHWAY BASIC HOURLY RATES	FRINGE BENEFIT PAYMENTS COMBINED
CRAFTS (continued)		
Boyd, Carter, Elliott and Rowan Counties:		
Electricians:		
Electricians	23.11	11.04
Cable Splicers	24.27	11.08
Anderson, Bath, Bourbon, Boyle, Breckinridge, Bullitt, Carroll, Clark, Fayette, Franklin, Grayson, Hardin, Harrison, Henry, Jefferson, Jessamine, Larue, Madison, Marion, Meade, Mercer, Montgomery, Nelson, Nicholas, Oldham, Owen, Robertson, Scott, Shelby, Spencer, Trimble, Washington and Woodford Counties:		
Electricians	24.25	8.24
Fleming, Greenup, Lewis and Mason Counties:		
Electricians	26.80	7.33
Bourbon (Northern third, including Townships of Jackson, Millersburg, Ruddel Mills & Shawhan); Carroll (Eastern third, including the Township of Ghent); Fleming (Western part, excluding Townships of Beechburg, Colfax, Elizaville, Flemingsburg, Flemingsburg Junction, Foxport, Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton, Pecksridge, Plummers Landing, Plummers Mill, Poplar Plains, Ringos Mills, Tilton & Wallingford); Mason (Western two-thirds, including Townships of Dover, Lewisburg, Mays Lick, Maysville, Minerva, Moranburg, Murphysville, Ripley, Sardis, Shannon, South Ripley & Washington); Nicholas (Townships of Barefoot, Barterville, Carlisle, Ellisville, Headquarters, Henryville, Morningglory, Myers & Oakland Mills); Owen (Townships of Beechwood, Bromley, Fairbanks, Holbrook, Jonesville, Long Ridge, Lusby's Mill, New, New Columbus, New Liberty, Owenton, Poplar Grove, Rockdale, Sanders, Teresita & Wheatley); Scott (Northern two-thirds, including Townships of Biddle, Davis, Delaplain, Elmville, Longlick, Muddy Ford, Oxford, Rogers Gap, Sadieville, Skinnersburg & Stonewall) & Bracken, Gallatin, Grant, Harrison & Robertson Counties:		
Ironworkers:		
Structural	23.45	10.88
Fence Erector	21.11	10.88
Bourbon (Southern two-thirds, including Townships of Austerlity, Centerville, Clintonville, Elizabeth, Hutchison, Littlerock, North Middletown & Paris); Carroll (Western two-thirds, including Townships of Carrollton, Easterday, English, Locust, Louis, Prestonville & Worthville); Clark (Western two-thirds, including Townships of Becknerville, Flanagan, Ford, Pine Grove, Winchester & Wyandotte); Owen (Eastern eighth, including Townships of Glenmary, Gratz, Monterey, Perry Park & Tacketts Mill); Scott (Southern third, including Townships of Georgetown, Great Crossing, Newtown, Stamping Ground & Woodlake); Anderson, Boyle, Breckinridge, Bullitt, Fayette, Franklin, Grayson, Hardin, Henry, Jefferson, Jessamine, Larue, Madison, Marion, Meade, Mercer, Nelson, Oldham, Shelby, Spencer, Trimble, Washington & Woodford Counties:		
Ironworkers	23.25	10.87

PROJECT WAGE RATES **SHEET THREE** **02-14-2003**

VARIOUS COUNTIES, FE04 121 DW03 0000008

	HIGHWAY BASIC HOURLY RATES	FRINGE BENEFIT PAYMENTS COMBINED

CRAFTS (continued)

Bourbon (Northern third, including Townships of Jackson, Millersburg, Ruddel Mills & Shawhan); Carroll (Eastern third, including the Townships of Ghent); Fleming (Western part, excluding Townships of Beechburg, Colfax, Elizaville, Flemingsburg, Flemingsburg Junction, Foxport, Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton, Pecksridge, Plummers Landing, Plummers Mill, Poplar Plains, Ringos Mills, Tilton & Wallingford); Mason (Western two-thirds, including Townships of Dover, Lewisburg, Mays Lick, Maysville, Minerva, Moranburg, Murphysville, Ripley, Sardis, Shannon, South Ripley & Washington); Nicholas (Townships of Barefoot, Barterville, Carlisle, Ellisville, Headquarters, Henryville, Morningglory, Myers & Oakland Mills); Owen (Townships of Beechwood, Bromley, Fairbanks, Holbrook, Jonesville, Long Ridge, Lusby's Mill, New, New Columbus, New Liberty, Owenton, Poplar Grove, Rockdale, Sanders, Teresita & Wheatley); Scott (Northern two-thirds, including Townships of Biddle, Davis, Delaplain, Elmville, Longlick, Muddy Ford, Oxford, Rogers Gap, Sadieville, Skinnersburg & Stonewall);
Bracken, Gallatin, Grant, Harrison & Robertson Counties:
Ironworkers Reinforcing:
Up to and including 30- mile radius of Hamilton County, Ohio Courthouse..... 22.71.....10.47
Beyond 30- mile radius of Hamilton County, Ohio Courthouse ..... 22.96.....10.47
Clark (Eastern third, including Townships of Bloomingdale, Hunt, Indian Fields, Kiddville, Loglick, Rightangele & Thomson); Fleming (Townships of Beechburg, Colfax, Elizaville, Flemingsburg, Flemingsburg Junction, Foxport, Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton, Pecksridge, Plummers Landing, Plummers Mill, Poplar Plains, Ringos Mills, Tilton & Wallingford); Mason (Eastern third, including Townships of Helena, Marshall, Orangeburg, Plumville & Springdale); Nicholas (Eastern eighth, including the Township of Moorefield Sprout); Bath, Boyd, Carter, Elliott, Greenup, Lewis, Montgomery & Rowan Counties:
Ironworkers:
Zone 1 ..... 24.92 ..... 11.14
Zone 2 ..... 25.32 ..... 11.14
Zone 3 ..... 27.32 ..... 11.14

Zone 1 - Up to 10 mi. radius of union hall, Ashland, KY, 1643 Greenup Avenue;
Zone 2 - 10 to 50 mi. radius of union hall;
Zone 3 - 50 mi. radius and beyond.

TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION

PROJECT WAGE RATES **SHEET FOUR** **02-14-2003**

VARIOUS COUNTIES, FE04 121 DW03 0000008

	HIGHWAY BASIC HOURLY RATES	FRINGE BENEFIT PAYMENTS COMBINED
CRAFTS (continued)		
Anderson, Breckinridge, Bullitt, Carroll, Grayson, Hardin, Henry, Jefferson, Larue, Marion, Meade, Nelson, Oldham, Shelby, Spencer, Trimble and Washington Counties:		
Painters:		
Brush	17.02	5.92
Abrasive Blaster, Fireproofing, Lead Abatement, Spray, & Waterblasting 4000 PSI and Above	17.52	5.92
Bracken, Gallatin, Grant, Mason, and Owen Counties:		
Painters:		
Elevated Tanks	22.30	5.10
(Heavy and Highway Bridges-Guardrails–Lightpoles-Striping):		
Bridge/Equipment Tender and/or Containment Builder	18.95	5.10
Brush and Roller	21.30	5.10
Spray	21.80	5.10
Sand Blasting and Hopper Tender; Water Blasting	22.05	5.10
Bridges when highest point of Clearance is 60 feet or more; & Lead Abatement Projects	22.30	5.10
Sandblasting, Hopper Tender, Waterblasting Bridges when highest point of Clearance is 60 feet or more;	23.05	5.10
Bath, Bourbon, Boyle, Clark, Fayette, Fleming, Franklin, Harrison, Jessamine, Madison, Mercer, Montgomery, Nicholas, Robertson, Scott and Woodford Counties		
Painters:		
Brush; Roll; Spray; Sandblasting; Steam Cleaning; Steeplejack Work; Lead Abatement; & Coal Tar	16.81	2.60
Bridge/Equipment Tender and/or Containment Builder	17.96	2.60
Swing & Scaffold Bridges; Structural Steel; Open Acid Tanks; High Tension Electrical Equipment; & Hot Pipes	21.00	2.60
Boyd, Carter, Elliott, Greenup, Lewis and Rowan Counties		
Painters:		
Bridges	23.28	9.07
All Other Work	19.42	9.07

Three/Federal-State

TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION

PROJECT WAGE RATES **SHEET FIVE 02-14-2003**

VARIOUS COUNTIES, FE04 121 DW03 0000008

	HIGHWAY BASIC HOURLY RATES	FRINGE BENEFIT PAYMENTS COMBINED
CRAFTS (continued)		
Breckinridge, Bullitt, Carroll (Western Half), Franklin (Western three-fourths), Grayson, Hardin, Henry, Jefferson, Larue, Marion, Meade, Nelson, Oldham, Shelby, Spencer, Trimble and Washington Counties:		
Plumbers; Gas Fitters:		
Plumbing contracts less than $150,000.00	19.92	6.42
All other plumbing contracts:	24.90	6.42
Boyd, Carter, Elliott, Greenup, Lewis and Rowan Counties:		
Plumbers and Steamfitters	22.97	12.40
Bracken, Carroll (Eastern Half), Gallatin, Grant, Mason, Owen and Robertson Counties:		
Pipefitters and Plumbers	26.00	8.09
Anderson, Bath, Bourbon, Boyle, Clark, Fayette, Fleming, Franklin (Eastern one-fourth), Harrison, Jessamine, Madison, Mercer, Montgomery, Nicholas, Scott and Woodford Counties:		
Pipefitters and Plumbers:		
Projects over 1 ½ million dollars in piping contracts:		
ZONE 1	22.30	7.72
ZONE 2	23.30	7.72
Projects under 1 ½ million dollars in piping contracts:		
ZONE 1	18.92	7.72
ZONE 2	19.92	7.72
ZONE 1 - Within 25 mile radius of Fayette County Courthouse		
ZONE 2 - Beyond 25 mile radius of Fayette County Courthouse		
Breckinridge, Bullitt, Carroll (Western Half), Franklin (Western three fourths), Grayson, Hardin, Henry, Jefferson, Larue, Marion, Meade, Nelson, Oldham, Shelby, Spencer, Trimble and Washington Counties:		
Pipefitters and Steamfitters	25.90	8.98

LABORERS:

Aging and curing of concrete, asbestos abatement worker, asphalt plant, asphalt, batch truck dump, carpenter tender, cement mason tender, cleaning of machines, concrete, demolition, dredging, environmental - nuclear, radiation, toxic and hazardous waste - level D, flagperson, grade checker, hand digging and hand back filling, highway marker placer, landscaping mesh handler and placer, puddler, railroad, rip-rap and grouter, right-of-way sign, guard rail and fence installer, signal person, sound barrier installer, storm and sanitary sewer, swamper, truck spotter and dumper, and wrecking of concrete form.

BASE RATE 16.34
FRINGE BENEFITS 7.38

Three/Federal-State

TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION

PROJECT WAGE RATES **SHEET SIX 02-14-2003**

VARIOUS COUNTIES, FE04 121 DW03 0000008

LABORERS: (continued)

Batter board man (sanitary and storm sewer), brickmason tender, mortar mixer operator, burner and welder, bushammer, chain saw operator, concrete saw operator, deckhand scow man, dry cement handler, environmental - nuclear, radiation, toxic and hazardous waste - level C, forklift operator for masonary, form setter, green concrete cutting, hand operated grouter and grinder machine operator, jackhammer, pavement breaker, paving joint machine, pipelayer, plastic pipe fusion, power driven Georgia buggy and wheel barrow, power post hole digger, precast manhole setter, walk-behind tamper, walk-behind trencher, sand blaster, concrete chipper, surface grinder, vibrator operator and wagon driller.

BASE RATE 16.59
FRINGE BENEFITS 7.38

Air track driller, asphalt luteman and raker, gunnite nozzleman, gunnite operator and mixer, grout pump operator, powderman and blaster, side rail setter, rail paved ditch, screw operator, tunnel (free air) and water blaster.

BASE RATE 16.64
FRINGE BENEFITS 7.38

Caisson worker (free air), cement finisher, environmental - nuclear, radiation, toxic and hazardous waste - levels A and B, miner and driller (free air), tunnel blaster and tunnel mucker (free air).

BASE RATE 17.24
FRINGE BENEFITS 7.38

TEAMSTERS **BASE RATE**

Mobile Batch Truck Tender 16.57

Greaser, Tire Changer and Mechanic Tender 16.68

Single Axle Dump, Flatbed, Semi-trailer or Pole Trailer when used to pull building materials and equipment, Tandem Axle Dump, Distributor, Mixer and Truck Mechanic 16.86

PROJECT WAGE RATES **SHEET SEVEN 02-14-2003**

VARIOUS COUNTIES, FE04 121 DW03 0000008

TEAMSTERS(continued)

Euclid & Other Heavy Earthmoving Equipment & Lowboy, Articulator Cat, 5-Axle Vehicle, Winch & A-Frame when used in transporting materials, Ross Carrier, Forklift when used to transport building materials and Pavement Breaker..... 16.96

FRINGE BENEFITS.....7.34

OPERATING ENGINEERS:

A-Frame winch truck, auto patrol, backfiller, batcher plant, bituminous paver, bituminous transfer machine, boom cat, bulldozer, mechanic, cableway, carry-all scoop, carry deck crane, central compressor plant, clamshell, concrete mixer (21 cu. ft. or over), concrete paver, truck-mounted concrete pump, core drill, crane, crusher plant, derrick, derrick boat, ditching and trenching machine, dragline, dredge operator, dredge engineer, elevating grader and loaders, grade-all, gurries, heavy equiptment robotics operator/mechanic, high lift, hoe-type machine, hoist (two or more drums), hoisting engine (two or more drums), horizontal directional drill operator, hydrocrane, hyster, KeCal loader, Letourneau, locomotive, mechanically operated laser screed, mechanic welder, mucking machine, motor scraper, orangepeel bucket, piledriver, power blade, pumpcrete, push dozer, rock spreader attached to equipment, rotary drill, roller (bituminous), scarifier, scoopmobile, shovel, side boom, subgrader, tailboom, telescoping type forklift, tow or push boat, tower crane (French, German and other types), tractor shovel and truck crane, tunnel mining machines, including moles, shields or similar types of tunnel mining equipment.

BASE RATE 21.10
FRINGE BENEFITS 9.15

Air compressor (over 900 cu. ft. per min.), bituminous mixer, boom type tamping machine, bull float, concrete mixer (under 21 cu. ft.), dredge engineer, electric vibrator compactor/self-propelled compactor, elevator (one drum or buck hoist), elevator (when used to hoist building material), finish machine, fireman & hoist (one drum), flexplane, forklift (reguardless of lift height), form grader, joint sealing machine, outboard motor boat, power sweeper (riding type), roller (rock), ross carrier, skid mounted or trailer mounted concrete pump, switchman or brakeman, throttle valve person, tractair and road widening trencher, tractor (50 H.P. or over), truck crane oiler, tugger, welding machine, well points and whirley oiler.

BASE RATE 18.68
FRINGE BENEFITS 9.15

PROJECT WAGE RATES **SHEET EIGHT 02-14-2003**

VARIOUS COUNTIES, FE04 121 DW03 0000008

OPERATING ENGINEERS: (continued)

Bituminous distributor, burlap and curing machine, cement gun, concrete saw, conveyor, deckhand oiler, grout pump, hydraulic post driver, hydro seeder, mud jack, oiler, paving joint machine, power form handling equipment, pump, roller (earth), steerman, tamping machine, tractor (under 50 H.P.) and vibrator.

BASE RATE 18.42
FRINGE BENEFITS 9.15

Greaser on grease facilities servicing heavy equipment.

BASE RATE 19.06
FRINGE BENEFITS 9.15

Operators on cranes with booms one hundred fifty feet (150') and over (including jib) shall receive fifty ($.50) cents above Base Rate.

Employees assigned to work below ground level are to be paid 10% above basic wage rate. This does not apply to open cut work.

WELDERS - Receive rate for craft in which welding is incidental.

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

These rates are listed pursuant to Kentucky Determination No. CR-01-III HWY dated October 8, 2001 and/or Federal Decision Number KY 020027 dated March 1, 2002, modification #1 dated April 5, 2002, modification #2 dated May 3, 2002, modification #3 dated June 21, 2002, modification #4 dated July 5, 2002, modification #5 dated August 16, 2002, modification #6 dated September 13, 2002, modification #7 dated October 4, 2002, modification #8 dated November 8, 2002, modification #9 dated January 10, 2003 and modification #10 dated January 17, 2003.

No laborer, workman or mechanic shall be paid at a rate less than that of a Journeyman except those classified as bona fide apprentices.

TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION

PROJECT WAGE RATES **SHEET NINE 02-14-2003**

VARIOUS COUNTIES, FE04 121 DW03 0000008

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 contractor 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 number 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 wages. 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 the undersigned.

Rick Stansel, Director
Division of Contract Procurement
Frankfort, Kentucky 40622

Three/Federal-State

TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS

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

I. Application
II. Nondiscrimination of Employees (KRS 344)
III. Payment of Predetermined Minimum Wages
IV. Statements and Payrolls

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.

PART IV

INSURANCE

The Contractor shall carry the following insurance in addition to the insurance required by law:

(1) Contractor's Public Liability Insurance not less than $100,000.00 for damages arising out of bodily injuries to or death to one person. Not less than $300,000.00 for damages arising out of bodily injuries to or death to two or more persons.

(2) Contractor's Property Damages Liability Insurance. Not less than $100,000.00 for all damages arising out of injury or destruction of property in any one accident. Not less than $300,000.00 for all damages during the policy period.

(3) Contractor's Protective Public Liability and Property Damage Insurance. The contractor shall furnish evidence with respect to operations performed for him by subcontractors that he carries in his own behalf for the above stipulated amounts.

(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 a _____ deductible property
(amount)
damage clause but company will pay claim and collect the deductible from the insured."

(5) 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.

PART V

STATEMENT OF INCOMPLETED WORK

1. Status of Active Prime Contracts. Attached

1. STATUS OF ALL INCOMPLETED PRIME CONTRACTS

All active prime contracts must be reported. This includes prime contracts with public and private owners and joint-ventured contracts. The names of the joint venturers must be shown when reporting these projects. A machine or typed listing reporting the status of each contract is acceptable when attached to this report; however, the total amounts on the itemized listing must be reported in the space provided below:

CONTRACT WITH	PROJECT IDENTIFICATION	PRIME CONTRACT AMOUNT	EARNINGS THROUGH LAST APPROVED ESTIMATE	TOTAL AMOUNT OF WORK REMAINING
TOTAL (Attach Summary if not itemized above)		$	$	$

PART VI

BID ITEMS

TRANSPORTATION CABINET
Department of Highways
FRANKFORT, KY 40622

Sheet No: 1

VARIOUS COUNTIES
FE04 121 DW03 0000008

PCN: 03-0090
Letting: 2/14/2003

THE BIDDER MUST MAKE THE EXTENSIONS AND ADDITIONS
SHOWING TOTAL AMOUNT BID USING FIGURES ONLY

Item No.	Code No.	Item	Approximate Quantity	Unit	Unit Price Dollars	Amount Dollars
		MP SYSTEM			.	.
1	6521	PAVE STRIPING-WB PAINT-4" Y	**1,397.00**	MILE	.	.
2	6520	PAVE STRIPING-WB PAINT-4" W	**979.00**	MILE	.	.
3	6523	PAVE STRIPING-WB PAINT-6" Y	**48.00**	MILE	.	.
4	6522	PAVE STRIPING-WB PAINT-6" W	**60.00**	MILE	.	.
		RS SYSTEM			.	.
5	6521	PAVE STRIPING-WB PAINT-4" Y	**345.00**	MILE	.	.
6	6520	PAVE STRIPING-WB PAINT-4" W	**49.00**	MILE	.	.
7	2572	QUALITY CONTROL	**1.00**	LP SUM	.	.
8	2650	MAINTAIN AND CONTROL TRAFFIC	**1.00**	LP SUM	.	.
9	2569	DEMOBILIZATION	**1.00**	LP SUM	.	.
10		**TOTAL BID**				$.

PART VII

CERTIFICATIONS

1.	Provisions Relative to Senate Bill 258 (1994)	Attached
2.	Non-Collusion Certification	Attached
3.	Certification of Bid Proposal	Attached

PROVISIONS RELATIVE TO SENATE BILL 258 (1994)

During the performance of the contract, the contractor agrees to comply with applicable provisions of:

1.	KRS 136	Corporation and Utility Taxes
2.	KRS 139	Sale and Use Taxes
3.	KRS 141	Income Taxes
4.	KRS 337	Wages and Hours
5.	KRS 338	Occupational Safety and Health of Employees
6.	KRS 341	Unemployment Compensation
7.	KRS 342	Workers Compensation

Any final determinations of a violation by the contractor within the previous five (5) years pursuant to the applicable statutes above are revealed as follows:

_____

_____

_____

_____

_____

_____

_____

_____

NON-COLLUSION CERTIFICATION

COMMONWEALTH OF KENTUCKY
COUNTY _____
PROJECT NO. _____

I, _____, _____, under
(Name of officer signing certification) (Title)

penalty of perjury under the laws of the United States, do hereby certify that

_____,
(Insert name of Individual, Joint Venture, Co-partnership, or Corporation submitting bid)

its agent, officers or employees have not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding in connection with this proposal.

_____
(Signature)

_____
(Title)

REVISED: 8-23-89

NON-COLLUSION CERTIFICATION

COMMONWEALTH OF KENTUCKY
COUNTY _____
PROJECT NO. _____

I, _____, _____, under
(Name of officer signing certification) (Title)

penalty or perjury under the laws of the United States, do hereby certify that

_____,
(Insert name of Individual, Joint Venture, Co-partnership, or Corporation submitting bid)

its agent, officers or employees have not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding in connection with this proposal.

_____
(Signature)

_____
(Title)

REVISED: 8-23-89

CERTIFICATION OF BID PROPOSAL

We (I) propose to furnish all labor, equipment and materials necessary to construct and/or improve the subject project in accordance with the plans, the Transportation Cabinet's Standard Specifications for Road and Bridge Construction, current edition, special provisions, notes applicable to the project as indicated herein and all addenda issued on this project subsequent to purchase of proposal.

We (I) attach a bid proposal guaranty as provided in the special provisions in an amount not less than 5% of the total bid. We agree to execute a contract in accordance with this bid proposal within 15 calendar days after the receipt of the notice of award for the project.

We (I) have examined the site of proposed work, project plans, specifications, special provisions, and notes applicable to the project referred to herein. We understand that the quantities shown herein are estimated quantities subject to increase or decrease as provided in the specifications.

_____
Name of Contracting Firm

BY: _____
Authorized Agent Title

_____
Address City State Zip Code

_____
Telephone Number

When two or more organizations bid as a joint venture, enter names of each organization and an authorized agent for each organization must sign above.