



COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET

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Andy Beshear
GOVERNOR

Jim Gray
SECRETARY

September 21, 2021

CALL NO. 317
CONTRACT ID NO. 212263
ADDENDUM # 1

Subject: Logan County, FD05 071 0079 009-011
Letting September 24, 2021

- (1) Revised - Scope of Work - Page 4 of 54
- (2) Revised - Special Notes - Pages 24-25 of 54
- (3) Added - Milling Summary - Page 40(a) of 54
- (4) Revised - Proposal Bid Items - Page 54 of 54

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

Rachel Mills,

A handwritten signature in cursive script that reads "Rachel Mills".

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:mr
Enclosures

ADMINISTRATIVE DISTRICT - 03

CONTRACT ID - 212263

FD05 071 0079 009-011

COUNTY - LOGAN

PCN - MP07100792101

FD05 071 0079 009-011

CLARKSVILLE ROAD (US 79) (MP 9.770) BEGINNING 697 FEET NORTH OF J MONTGOMERY ROAD, ENDING AT AN ASPHALT JOINT APPROX 450 FEET SOUTH OF THE US 431/KY 3240 INTERSECTION (MP 10.624), A DISTANCE OF 0.85 MILES.PAVEMENT (WITH ALTERNATES)

GEOGRAPHIC COORDINATES LATITUDE 36:49:31.00 LONGITUDE 86:54:47.00

COMPLETION DATE(S):

COMPLETED BY 06/30/2022

APPLIES TO ENTIRE CONTRACT

SPECIAL NOTE FOR FINE MILLING

FD05 071 0079 009-011

Perform Fine Milling at areas outlined in the Typical Sections and as directed by the Engineer.

- A. Equipment.** Provide a cold milling machine with a fine tooth milling drum and an electronic grade control system. The tool spacing of the drum shall not exceed 3/8 inch. The machine shall be equipped with a grade control system capable of determining a mean value from a minimum of three grade sensors. The sensors shall span a minimum length of 20 feet longitudinally. The drum must be capable of producing a macrotexture measurement greater than or equal to 9.5 inches as described in C. Testing.
- B. Construction.** The milling machine shall be operated at a speed and drum revolution per minute such that the macrotexture measurement is greater than or equal to 9.5 inches as described in C. Testing and the milled pavement profile does not vary longitudinally more than 1/4 inch from a 16' straight edge. Maintain the milling drum such that the cross-slope does not vary more than 1/8 inch from a 10 foot straightedge. Milling shall be performed so that the cross-slope breaks between driving lanes and shoulders remain at their existing locations. **Depth of milling shall be set so as to remove rutting, rumble strips, profile errors, heaving sections, etc.** Contractor will take possession of all millings from milling operations. The milled surface shall be swept clean of all loose material after milling and prior to resurfacing. Prior to resurfacing, allow traffic to drive on the milled surface for a minimum of 5 days to permit the removal of fine dust from the milled surface. **Please note, Fine Milling is to be applied to both the Microsurfacing and Thinlay alternates.**
- C. Testing.** Testing shall be performed to determine the macrotexture of the milled pavement surface at a random location chosen in accordance with Kentucky Method KM 64-113-14. Test area shall be cleaned with a stiff wire and or soft bristle brush and protected with a wind screen as necessary. Pour 200 ml of Type 1 glass beads (meeting AASHTO M247) from a height of 4 inches or less onto the milled pavement surface. Using a round plexiglass disk (8 inches in diameter x 1/2 inch thick) with a round handle, place gently on the pile of beads and spread in a slow circular motion to disperse the beads in a circular area and create a defined crest around the perimeter. Continue spreading until the beads are well dispersed and the disk rides on top of the high points of the milled pavement surface. Measure the diameter of the pile in inches at 0 degrees, 45 degrees, 90 degrees and 135 degrees. Determine the macrotexture measurement in inches by adding the four measurements and dividing by four. Frequency of testing shall be a minimum of once daily and additional testing will be performed as determined necessary by the project engineer.
- D. Measurement.** The Department will measure Fine Milling in Sq. Yds. of surface milled.
- E. Payment.** Payment at the contract unit price per Sq. Yd. of Asphalt Pavement Milling and Texturing (Fine Milling) shall be full compensation for all equipment, labor, materials, and incidentals necessary to complete the operations described herein.

Special Note for Thermo Striping Application

Contrary to Section 714.02.05 of the Standard Specifications for Road and Bridge Construction, thermoplastic application will be required to be by ribbon gun at all locations that are to be applied over milled rumble strips in lieu of an extrusion application.

SPECIAL NOTE FOR FIBER REINFORCED BITUMINOUS MEMBRANE SURFACE TREATMENT (CHIP SEAL WITH FIBERS)

1. DESCRIPTION. Construct a fiber reinforced membrane interlayer (FRM-IL) after which a wearing surface shall be placed upon. Fiber reinforced membrane interlayer shall be constructed in a single operation comprised of a layer of polymer modified asphalt emulsion, a layer of chopped and placed fibers, and second layer of polymer modified asphalt emulsion, to which is covered immediately with aggregate. The FRM-IL shall completely seal the entire pavement surfaced and provide a uniform plane suitable for a wearing surface of Hot Mix Asphalt or Microsurfacing.

2. MATERIAL AND EQUIPMENT.

Asphalt Material. Furnish undiluted CRS-2P polymer modified emulsion that conforms to AASHTO M 316 and the requirements **Section 806.05.**

PROPOSAL BID ITEMS

Report Date 9/21/21

Section: 0001 - MICROSURFACE

| LINE | BID CODE | ALT | DESCRIPTION | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|---|-----------|------|-----------|----|--------|
| 0010 | 21652EN | | MICROSURFACING-LEVELING COURSE (REVISED 9-21-2021) | 4,727.00 | SQYD | | \$ | |
| 0020 | 24958EC | | MICROSURFACING-SURFACE COURSE - TYPE D | 12,869.00 | SQYD | | \$ | |

Section: 0002 - THINLAY

| LINE | BID CODE | ALT | DESCRIPTION | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|---|----------|------|-----------|----|--------|
| 0030 | 00190 | | LEVELING & WEDGING PG64-22 (REVISED 9-21-2021) | 195.00 | TON | | \$ | |
| 0050 | 24570EC | | CL3 ASPH SURF NO.4D PG64-22 | 442.00 | TON | | \$ | |
| 0070 | 24970EC | | ASPHALT MATERIAL FOR TACK NON- TRACKING (REVISED 9-21-2021) | 5.00 | TON | | \$ | |

Section: 0003 - ROADWAY

| LINE | BID CODE | ALT | DESCRIPTION | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|---|-----------|------|-----------|----|--------|
| 0080 | 00001 | | DGA BASE | 100.00 | TON | | \$ | |
| 0090 | 02562 | | TEMPORARY SIGNS | 140.00 | SQFT | | \$ | |
| 0100 | 02650 | | MAINTAIN & CONTROL TRAFFIC | 1.00 | LS | | \$ | |
| 0105 | 02676 | | MOBILIZATION FOR MILL & TEXT (REVISED 9-21-2021) | 1.00 | LS | | \$ | |
| 0110 | 02697 | | EDGE LINE RUMBLE STRIPS | 8,152.00 | LF | | \$ | |
| 0120 | 06510 | | PAVE STRIPING-TEMP PAINT-4 IN | 9,100.00 | LF | | \$ | |
| 0130 | 06600 | | REMOVE PAVEMENT MARKER TYPE V | 100.00 | EACH | | \$ | |
| 0135 | 24964EC | | FINE MILLING (REVISED 9-21-2021) | 12,869.00 | SQYD | | \$ | |
| 0140 | 24995EC | | PAVE STRIPING-SPRAY THERMO-6 IN W | 9,100.00 | LF | | \$ | |
| 0150 | 24996EC | | PAVE STRIPING-SPRAY THERMO-6 IN Y | 9,100.00 | LF | | \$ | |
| 0160 | 26143EC | | FIBER REINFORCED BITUMINOUS MEMBRANE | 12,869.00 | SQYD | | \$ | |

Section: 0004 - DEMOBILIZATION

| LINE | BID CODE | ALT | DESCRIPTION | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|------|----------|-----|----------------|----------|------|-----------|----|--------|
| 0170 | 02569 | | DEMOBILIZATION | 1.00 | LS | | \$ | |