

FHWA REG. NO.	STATE	PROJECT NO.	YEAR	SHEET NUMBER	TOTAL SHEETS
7	KANSAS	87 U-2227-01	2010	4	17

BID PROPOSAL

WORK ON PROJECT. There will be mill and overlay with asphalt and concrete base repair, pavement markings and shoulder repair.

THE MILL & OVERLAY work on this project consists of cold milling a nominal 2 inches (unless otherwise noted) of asphalt street surface and placing a 2-inch BMI-B (PG70-28) asphalt overlay on the locations shown in Attachment A. All asphalt millings shall be salvaged to the West or North City Sub-station. Details will be discussed at the Pre-bid Meeting. Entrance/Exists of side streets and the median shall be considered as part of the regular mill and overlay work.

CONCRETE BASE REPAIRS includes the removal and replacement of base pavement, as directed by the Engineer. It will consist of complete removal and replacement of the concrete base to a level of below the asphalt surface of flush with any milled surface. Concrete base shall be tied in all sides to existing base using No. 5 bars 2'-0" in length on centers. Dowels must set with epoxy and not hammered into a smaller diameter hole. Joint spacing shall be no greater than 12' not less than 6 feet. Base repair shall conform to section 500 of the City's Standard Specifications. All base repairs, regardless of location, require full-depth saw cuts. All saw cutting will be considered subsidiary to the other bid items. the cost of cuts and fill up to 2" and flag person for working near rail road crossing shall be incidental to other bid items.

ASPHALT SHOULDER OR BASE REPAIRS. The contractor shall perform full-depth asphalt base repairs as directed by the Engineer. Work consists of sawing and removing the full asphalt pavement thickness and replacing with City BM-2 (PG 64-22 max 35% RAP) base hot mix. Asphalt repairs shall be compacted in a minimum of two lifts where the maximum lift thickness is 3" to 95% density. The full-depth asphalt repair shall be a minimum of three-feet (3') in width and paid by ton of asphalt.

GRAVEL SHOULDER REPAIRS. There are parts of shoulders that have deep holes and there are shoulder areas that have more than 1" drop at the edges of asphalt, shoulder gravel shall be used to repair the above.

THERMO-PLASTIC PAVEMENT MARKINGS are to be placed as part of this project. All thermo-plastic pavement markings shall be placed within 5 working days of placement of asphalt surface course. The Contractor shall be liable to the City of Wichita liquidated damages of \$200 per day for each working day pavement markings remain incomplete.

TO PREVENT DELAY IN CONSTRUCTION and more quickly resolve traffic issues, work shall commence within two (2) working days of traffic control being set up, unless operations are delayed due to weather or any other unforeseen circumstances and must be approved by the Engineer. Mill and overlay operations are to commence within two (2) days of the finish of any base repairs, unless operations are delayed due to weather or any other unforeseen circumstances and must be approved by the Engineer. The Contractor will reimburse to the City liquidated damages of \$200 per day for each calendar day that work has not started beyond the 2 working day grace period.

TO PROTECT UNDERLYING PAVEMENT layers and limit disruption of traffic, it is imperative that all milled asphalt surfaces be overlaid with asphalt as soon as possible. Therefore, unless the overlaying operations are delayed due to cure time of concrete base patches, or otherwise approved by the Engineer, all milled surfaces shall be covered with new asphalt within three (3) working days of the initiation of milling operations on a particular location. the Contractor will reimburse to the City liquidated damages of \$200 per day for each calendar day that milled surfaces remain unfinished beyond the three (3) working day grace period.

ALL ATTEMPTS SHALL BE MADE TO KEEP TRAFFIC OFF OF MILLED SURFACES prior to being overlaid with new asphalt. Transition tapers will be provided at the start and finish of each milled area if traffic is allowed on the milled surface. All manholes, water valves, gas valves, and any other utility manholes or ducts shall also have tapers provided. Tapers shall be maintained while traffic is allowed on any milled surface and shall be cleaned up prior to being overlaid. All tapers shall be incidental to the various bid items or work.

TRAFFIC CONTROL shall be set up and maintained according to Latest MUTCD standards and all traffic control devices shall have enough reflectivity to be seen in the dark by motorists. All traffic devices not adhering to this shall be removed and replaced within 4 hours of notification. The Contractor will reimburse to the City liquidated damages of \$200 per day for each calendar day that traffic devices are not replaced within 4 hours of notification. A traffic control contact person must be available on a 24-hour a day basis. On residential streets each home in the neighborhood needs to be notified of the approximate dates of construction and scope of the project and there should be traffic signs warning drivers of construction and slow down signs while construction takes place. Traffic control and notices shall be incidental to all other bid items.

Attachment B2, Locations and Scope of Work
Project No. 54-87 U-2227-01 KLINK 1R Resurfacing FY 2009-2010
Kellogg, 119th St to 111th St. West in City of Wichita

Street	From	To	Project	Length	Average Width in ft	Area sy	2" Asph Mill sy	Surface	Concrete Base Repair sy	1" Ultrathin Asphal (Type C) (PG70-28) tn	AC Surface Course (BM1-B) (PG70-28) tn	6" White or Yellow Pvmt Mrkgs (Thermo PI) lf	12" White or Yellow Pvmt Mrkgs (Thermo PI) lf	Turn Arrow Pvmt Markings (Th Pi) ea	Shoulder Gravel Repair tn	Shoulder Asphalt Repair tn	# Traffic Control #
West US 54 (EB & WB) Sta 18+20 to 26+00	290' East. CL 111th St W at pvmt change	490' West CL 111th St W at pvmt change	2" M/O with base repair	780	73	6327	6327	Composite	300		696	3400	192	4	50	100	
West US 54 (WB) Sta 0+00 to 18+20	490' West CL 111th St W at pvmt change	450' East CL 119th St W		1820	36	7280		Concrete	500								
West US 54 (EB) Sta 0+00 to 18+20	450' East CL 119th St W at pvmt change	490' West CL 111th St W at pvmt change	2" M/O with base repair	1820	27	5460	5460	Composite	600		601	4600	54	4	50	50	
Total				4420		19067	11787		1400	0	1297	8000	246	8	100	150	1