

ENGINEER'S ESTIMATE OF PROBABLE CONSTRUCTION COST

East Kellogg from 0.1 Miles East of 127th Street East to 0.5 Miles East of Sedgwick/Butler County Line
 Project No. 472 8614
 Sedgwick/Butler County



East Kellogg Improvements
 Estimator: JB, DM, DR
 KDOT Project No: 54-87 KA-1164-01
 PB Project No: 35766A

Date: February 25, 2011

BID ITEM	UNIT	QUANTITY	2010	
			UNIT PRICE	AMOUNT
LUMP SUM BID ITEMS - PAVING:				
Site Clearing & Restoration	Lump Sum	1	\$950,000.00	\$950,000.00
Mobilization	Lump Sum	1	\$5,200,000.00	\$5,200,000.00
Mobilization (DBE)	Lump Sum	1	\$1,040,000.00	\$1,040,000.00
Field Office and Laboratory (Type A)	Each	1	\$4,000.00	\$4,000.00
Foundation Stabilization	Cu. Yds.	294	\$40.00	\$11,760.00
Foundation Stabilization (Set Price)	Cu. Yds.	1	\$40.00	\$40.00
Granular Backfill (Wingwalls)(Set Price)	Cu. Yds.	1	\$50.00	\$50.00
Concrete for Seal Course (Set Price)	Cu. Yds.	1	\$200.00	\$200.00
Common Excavation	Cu. Yds.	175,320	\$2.50	\$438,300.00
Common Excavation (Contractor Furnished)	Cu. Yds.	731,385	\$3.50	\$2,559,847.50
Select Soil	Cu. Yds.	4,163	\$3.00	\$12,489.00
Pavement Removal	Sq. Yds.	129,583	\$3.25	\$421,144.75
Class III Excavation	Cu. Yds.	448	\$50.00	\$22,400.00
Removal of Existing Structures	Lump Sum	1	\$250,000.00	\$250,000.00
Compaction of Earthwork (Type AA) (MR-0-5)	Cu. Yds.	793,523	\$1.00	\$793,523.00
Water (Grading)(Set Price)	M. Gal.	1	\$35.00	\$35.00
Concrete (Gr. 4.0)(RCB)	Cu. Yds.	886.0	\$700.00	\$620,200.00
Reinforcing Steel (Gr. 60)	Lbs.	150,620	\$1.00	\$150,620.00
Cement Treated Base (4")	Sq. Yds.	202,613	\$9.00	\$1,823,517.00
10" Geogrid Reinforced Base	Sq. Yds.	128,102	\$2.65	\$339,470.30
Concrete Pavement (10" Uniform) (AE) (NRDJ)	Sq. Yds.	256,635	\$55.00	\$14,114,925.00
Concrete Pavement (10" Variable) (AE) (NRDJ)	Sq. Yds.	34,981	\$45.00	\$1,574,145.00
Concrete Pavement (VG) 8" (Reinf)	Sq. Yds.	157	\$60.00	\$9,420.00
Concrete Pavement (VG) 10" (Reinf)	Sq. Yds.	1,896	\$70.00	\$132,720.00
Concrete Pavement (12" Uniform) (AE) (Bridge Approach)	Sq. Yds.	8,521	\$100.00	\$852,100.00
Colored Stamped Concrete (6" Unifrom) (PL)	Sq. Yds.	99	\$60.00	\$5,940.00
Concrete (4") (PL)	Sq. Yds.	1,603	\$40.00	\$64,120.00
Bridge Approach Slab Footing	Cu. Yds.	1,107.7	\$270.00	\$299,079.00
Quality Control Testing (PCCP)	Sq. Yds.	302,190	\$1.75	\$528,832.50
Concrete Core (Set Price)	Each	1	\$120.00	\$120.00
Concrete Pavement Smoothness	Lump Sum	1	\$1.00	\$1.00
Pavement Edge Wedge (Rock)	Ton	1,962	\$29.50	\$57,879.00
Water for Earthwork Compaction (Set Price)	M. Gal.	1	\$35.00	\$35.00
Manipulation for Treated Subgrade (Lime)	Sq. Yds.	151,423	\$3.80	\$575,407.40
Manipulation for Treated Subgrade (Fly Ash)	Sq. Yds.	50,258	\$3.00	\$150,774.00
Lime	Ton	1,874	\$220.00	\$412,280.00
Fly Ash	Ton	1,866	\$60.00	\$111,960.00
Water (Treated Subgrade)	M. Gal.	3,592	\$35.00	\$125,720.00
AC Pavement 7" (5" Bit. Base)	Sq. Yds.	301	\$19.00	\$5,719.00
Brick Pavers(Concrete), Crosswalk	Sq. Yds.	699	\$44.50	\$31,105.50
Brick Pavers(Concrete), Median	Sq. Yds.	2,337	\$44.50	\$103,996.50
Wheelchair Ramp w/ Detectable Warning Panels	Each	50	\$590.00	\$29,500.00
Concrete Safety Barrier (Type)	Lin. Ft.	52	\$180.00	\$9,360.00
Concrete Safety Barrier (Type) (Spec.)	Lin. Ft.	22,667	\$150.00	\$3,400,050.00
Concrete Safety Barrier (Type) (Spec.)(54")	Lin. Ft.	340	\$175.00	\$59,500.00
Concrete Safety Barrier (Type V) (Spec.)	Lin. Ft.	10,092	\$60.00	\$605,520.00
Curb and Gutter, Combined (AE) (Type)	Lin. Ft.	44,642	\$9.25	\$412,938.50
Curb and Gutter, Combined (AE) (Type)	Lin. Ft.	428	\$10.50	\$4,494.00
Curb and Gutter, Combined (AE) (Type)	Lin. Ft.	6,920	\$9.25	\$64,010.00
Curb and Gutter, Combined (AE) (Type) (Spec.)	Lin. Ft.	732	\$11.00	\$8,052.00
Concrete Ramp Nose Section (Median)	Each	5	\$540.00	\$2,700.00
Guardrail, Steel Plate	Lin. Ft.	293.75	\$34.00	\$9,987.50
Guardrail End Terminal (SRT) Alt. #1	Each	1	\$1,740.00	\$1,740.00
Guardrail End Terminal (FLEAT) Alt. #2	Each	1	\$1,420.00	\$1,420.00
Guardrail, Removal of Steel Plate	Lin. Ft.	3,292.50	\$3.00	\$9,877.50
Impact Attenuator (Severe Duty) (Narrow Hazard)	Each	10	\$25,000.00	\$250,000.00
Impact Attenuator (Severe Duty) (Wide Hazard)	Each	1	\$29,000.00	\$29,000.00
Fence	Lin. Ft.	4,904.1	\$15.00	\$73,561.50
Total Lump Sum Paving				\$38,765,586.45

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BID ITEM	UNIT	QUANTITY	2010 UNIT PRICE	AMOUNT
MEASURED QUANTITY BID ITEMS - PAVING:				
Retaining Wall (MSE)	Sq. Ft.	133,376	\$60.00	\$8,002,560.00
Retaining Wall (Soil Nail)	Sq. Ft.	4,085	\$90.00	\$367,650.00
Retaining Wall (T-Type) (30" and Taller)	Lin. Ft.	1,050	\$225.00	\$236,250.00
Concrete Masonary Coating	Sq. Ft.	114,662	\$11.25	\$1,289,947.50
Concrete Driveway (6")	Sq. Ft.	4,922	\$3.75	\$18,457.50
Concrete Driveway (8")	Sq. Ft.	5,952	\$4.75	\$28,272.00
Concrete Sidewalk (4")	Sq. Ft.	145,054	\$2.25	\$326,371.50
Temporary Pavement (10")	Sq. Yds.	24,427	\$25.00	\$610,675.00
Total Measured Quantity Paving				\$10,880,183.50
BRIDGES:				
Br. No. 122'-122' Continuous Prestressed Concrete - 49'-6" Roadway	Lump Sum	1	\$1,607,025.00	\$1,607,025.00
Br. No. 46'-56'-46' Continuous Prestressed Concrete - 133'-0" Roadway	Lump Sum	1	\$2,512,625.00	\$2,512,625.00
Br. No. 42'-56'-42' Reinforced Concrete Haunched Slab - 49'-6" Roadway	Lump Sum	1	\$705,900.00	\$705,900.00
Br. No. 42'-56'-42' Reinforced Concrete Haunched Slab - 52'-6" Roadway	Lump Sum	1	\$748,800.00	\$748,800.00
Br. No. 120'-130'-120' Continuous Prestressed Concrete - 145'-0" Roadway	Lump Sum	1	\$8,112,750.00	\$8,112,750.00
Br. No. 52'-65'-52' Continuous Prestressed Concrete - 125'-0" Roadway	Lump Sum	1	\$2,690,500.00	\$2,690,500.00
Br. No. 48'-64'-48' Reinforced Concrete Haunched Slab - 49'-6" Roadway	Lump Sum	1	\$805,200.00	\$805,200.00
Br. No. 48'-64'-48' Reinforced Concrete Haunched Slab - 37'-6" Roadway	Lump Sum	1	\$610,000.00	\$610,000.00
Br. No. 75'-85'-75' Continuous Prestressed Concrete - 73'-6" Roadway	Lump Sum	1	\$2,186,625.00	\$2,186,625.00
Br. No. 75'-85'-75' Continuous Prestressed Concrete - 37'-6" Roadway	Lump Sum	1	\$1,115,625.00	\$1,115,625.00
Br. No. 85'-90'-100'-100'-120'-122'-120' Continuous Prestressed Concrete - 125'-0" Roadway	Lump Sum	1	\$11,562,500.00	\$11,562,500.00
Br. No. 42'-56'-42' Reinforced Concrete Haunched Slab - 46'-6" Roadway	Lump Sum	1	\$665,000.00	\$665,000.00
Br. No. 42'-56'-42' Reinforced Concrete Haunched Slab - 52'-6" Roadway	Lump Sum	1	\$750,800.00	\$750,800.00
Br. No. 20'x10' Reinforced Concrete Box	Lump Sum	1	\$1,876,190.00	\$1,876,190.00
Total Bridges				\$35,949,540.00
LUMP SUM BID ITEMS - DRAINAGE:				
Headwall RC 18"	Each	6	\$600.00	\$3,600.00
Headwall RC 24"	Each	1	\$700.00	\$700.00
Headwall RC 30"	Each	5	\$800.00	\$4,000.00
Headwall RC 42"	Each	2	\$1,250.00	\$2,500.00
Headwall RC 48"	Each	1	\$1,500.00	\$1,500.00
Headwall RC 60"	Each	1	\$2,000.00	\$2,000.00
Pipe, RCP (18")	Lin. Ft.	26,062	\$45.00	\$1,172,790.00
Pipe, RCP (24")	Lin. Ft.	5,129	\$56.00	\$287,224.00
Pipe, RCP (30")	Lin. Ft.	4,722	\$75.00	\$354,150.00
Pipe, RCP (36")	Lin. Ft.	4,192	\$95.00	\$398,240.00
Pipe, RCP (42")	Lin. Ft.	2,597	\$120.00	\$311,640.00
Pipe, RCP (48")	Lin. Ft.	2,132	\$150.00	\$319,800.00
Pipe, RCP (54")	Lin. Ft.	615	\$185.00	\$113,775.00
Pipe, RCP (60")	Lin. Ft.	1,016	\$230.00	\$233,680.00
Inlet, Area	Each	3	\$2,800.00	\$8,400.00
Inlet, Curb (Type 1)(L=10')	Each	28	\$2,400.00	\$67,200.00
Inlet, Curb (Type 12)	Each	122	\$3,500.00	\$427,000.00
Inlet, Drive	Each	1	\$3,500.00	\$3,500.00
Inlet, Grate	Each	176	\$2,800.00	\$492,800.00
Inlet, Grate Stack	Each	1	\$1,200.00	\$1,200.00
MH, Reinforced Concrete	Each	5	\$2,960.00	\$14,800.00
MH Stack (5')	Each	9	\$1,000.00	\$9,000.00
MH, Type P	Each	97	\$3,000.00	\$291,000.00
Total Lump Sum Drainage				\$4,229,499.00
MEASURED QUANTITY BID ITEMS - SANITARY SEWER:				
Pipe, SS 8"	Lin. Ft.	2,498	\$75.00	\$187,350.00
Pipe, SS 10"	Lin. Ft.	1,495	\$110.00	\$164,450.00
Pipe, SS 18"	Lin. Ft.	24	\$230.00	\$5,520.00
Pipe, SS 21"	Lin. Ft.	399	\$250.00	\$99,750.00
MH, Standard SS (4')	Each	10	\$3,500.00	\$35,000.00
MH, Standard SS (5')	Each	11	\$4,200.00	\$46,200.00
Total Measured Quantity Sanitary Sewer				\$538,270.00

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MEASURED QUANTITY BID ITEMS - WATER:				
Pipe, WL 8"	Lin. Ft.	330	\$60.00	\$19,800.00
Pipe, WL 12"	Lin. Ft.	1,857	\$70.00	\$129,990.00
Pipe, WL 16"	Lin. Ft.	24,627	\$85.00	\$2,093,295.00
Pipe, WL 24"	Lin. Ft.	2,151	\$130.00	\$279,630.00
Pipe, WL 16", Bored & Cased	Lin. Ft.	800	\$375.00	\$300,000.00
Fire Hydrant Assembly	Each	41	\$2,500.00	\$102,500.00
Valve Assembly, Air Release 2"	Each	4	\$300.00	\$1,200.00
Valve Assembly, Anchored 8"	Each	13	\$700.00	\$9,100.00
Valve Assembly, Anchored 12"	Each	5	\$1,300.00	\$6,500.00
Valve Assembly, Anchored 16"	Each	21	\$1,900.00	\$39,900.00
Valve Assembly, Anchored 24"	Each	6	\$2,500.00	\$15,000.00
Total Measured Quantity Water				\$2,977,115.00
			TOTAL	\$93,340,193.95
			20% Contingency	\$18,668,038.79
2011 GRAND TOTAL				\$112,008,232.74

- Note:**
 Contingency Includes:
 Signing
 Signalization
 Pavement Marking
 Aesthetics/Landscaping
 Lighting
 Erosion Control
 Temporary Traffic Control
- Items not included in this estimate:
 Right-of-Way
 Private Utility Relocation
 Construction Engineering
 Construction Staking