

**CITY OF BELTON, MO**

**ENGINEER'S OPINION OF PROBABLE COST - FINAL PLAN SUBMITTAL**

PROJECT NO.: J4S3399

PROJECT NAME: Belton I-49 Outer Road (155th St to N of 162nd St & 162nd St to 163rd St)

PREPARED BY: Olsson

SUMMARY OF BID ITEMS				Engineers Estimate		J.M. Fahey Const. Co.		Leavenworth Excavating & Equipment Co.	
Item No.	Item Description	Quantity	Unit	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
<b>ROADWAY ITEMS</b>									
1	Mobilization	1	LS	\$70,000.00	\$70,000.00	\$42,000.00	\$42,000.00	\$188,000.00	\$188,000.00
2	Contractor Furnished Surveying and Staking	1	LS	\$15,000.00	\$15,000.00	\$11,000.00	\$11,000.00	\$19,600.00	\$19,600.00
3	Removal of Improvements	1	LS	\$30,000.00	\$30,000.00	\$95,000.00	\$95,000.00	\$109,000.00	\$109,000.00
4	Clearing and Grubbing	4	AC	\$2,500.00	\$10,000.00	\$16,500.00	\$66,000.00	\$1,875.00	\$7,500.00
5	Unclassified Excavation	2,902	CY	\$17.00	\$49,334.00	\$35.00	\$101,570.00	\$61.00	\$177,022.00
6	Compacting Embankment	5,491	CY	\$6.00	\$32,946.00	\$4.00	\$21,964.00	\$2.10	\$11,531.10
7	Contractor Furnished Embankment in Place	3,024	CY	\$18.00	\$54,432.00	\$16.00	\$48,384.00	\$11.50	\$34,776.00
8	Coldmilling Bituminous Pavement for Removal of Surfacing (3 in. Thick or Less)	4,302	SY	\$4.00	\$17,208.00	\$4.15	\$17,853.30	\$3.98	\$17,121.96
9	MoDOT Type 5 Aggregate for Base (6 in. Thick)	23	SY	\$15.00	\$345.00	\$24.00	\$552.00	\$78.23	\$1,799.29
10	APWA Asphalt Surface, Type 3-01	1,249	TON	\$80.00	\$99,920.00	\$85.00	\$106,165.00	\$72.49	\$90,540.01
11	APWA Asphalt Base, Type 1-01	5,040	TON	\$75.00	\$378,000.00	\$64.00	\$322,560.00	\$51.45	\$259,308.00
12	Full Depth Street Patch	4,165	SY	\$60.00	\$249,900.00	\$50.00	\$208,250.00	\$72.00	\$299,880.00
13	Concrete Base (7 in. Non-Reinf)	1,505	SY	\$40.00	\$60,200.00	\$65.00	\$97,825.00	\$55.00	\$82,775.00
14	Commercial Driveway (Concrete 8")	298	SY	\$85.00	\$25,330.00	\$100.00	\$29,800.00	\$89.98	\$26,814.04
15	Driveway (Gravel 6")	80	SY	\$15.00	\$1,200.00	\$24.00	\$1,920.00	\$24.00	\$1,920.00
16	Lime Treated Subgrade (Approved Equals: Flyash or Portland Cement)	10,341	SY	\$7.50	\$77,557.50	\$12.00	\$124,092.00	\$9.35	\$96,688.35
17	Tack Coat	431	GAL	\$2.25	\$969.75	\$3.50	\$1,508.50	\$4.00	\$1,724.00
18	Ribbon Curb	5,152	LF	\$21.00	\$108,192.00	\$25.00	\$128,800.00	\$18.00	\$92,736.00
19	APWA Straight Back Curb & Gutter (Type CG-1 Dry)	4,798	LF	\$25.00	\$119,950.00	\$24.00	\$115,152.00	\$19.30	\$92,601.40
20	APWA Straight Back Curb & Gutter (Type CG-1)	434	LF	\$25.00	\$10,850.00	\$60.00	\$26,040.00	\$24.35	\$10,567.90
21	APWA Roll Back Curb & Gutter (Type CG-2)	20	LF	\$25.00	\$500.00	\$66.00	\$1,320.00	\$45.00	\$900.00
22	Furnishing and Placing Asphaltic Concrete Material for Full Depth Pavement Repair	9	TON	\$75.00	\$675.00	\$160.00	\$1,440.00	\$863.00	\$7,767.00
23	Lime Treated Subgrade (Pavement Repair)	22	SY	\$7.50	\$165.00	\$18.00	\$396.00	\$200.00	\$4,400.00
24	Seeding - Fescue	4	AC	\$2,500.00	\$10,000.00	\$1,500.00	\$6,000.00	\$3,660.00	\$14,640.00
25	Sediment Trap Excavation	15	CY	\$40.00	\$600.00	\$60.00	\$900.00	\$26.00	\$390.00
26	Sediment Trap Rock	15	CY	\$70.00	\$1,050.00	\$120.00	\$1,800.00	\$98.00	\$1,470.00
27	Silt Fence	4,081	LF	\$2.00	\$8,162.00	\$1.40	\$5,713.40	\$3.10	\$12,651.10
28	Rock Ditch Check	720	LF	\$15.00	\$10,800.00	\$30.00	\$21,600.00	\$43.00	\$30,960.00
29	MoDOT Type 3 Erosion Control Blanket	185	SY	\$5.00	\$925.00	\$4.00	\$740.00	\$8.80	\$1,628.00
30	Sediment Removal	123	CY	\$30.00	\$3,690.00	\$50.00	\$6,150.00	\$38.00	\$4,674.00
31	Temporary Seeding and Mulching	1	AC	\$1,550.00	\$1,550.00	\$1,000.00	\$1,000.00	\$2,850.00	\$2,850.00
<b>ROADWAY ITEMS SUB-TOTAL:</b>					<b>\$1,449,451.25</b>		<b>\$1,613,495.20</b>		<b>\$1,704,235.15</b>
<b>DRAINAGE ITEMS</b>									
32	MoDOT Concrete Pipe Collar	2	EA	\$2,250.00	\$4,500.00	\$1,100.00	\$2,200.00	\$3,050.00	\$6,100.00
33	MoDOT Precast Concrete 3'X3' Drop Inlet	2	EA	\$3,500.00	\$7,000.00	\$4,600.00	\$9,200.00	\$3,939.00	\$7,878.00
34	MoDOT Precast Concrete 5'X3' Drop Inlet	1	EA	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$4,460.00	\$4,460.00
35	MoDOT Grate and Bearing Plate (3 Ft. x 3 Ft.)	2	EA	\$1,000.00	\$2,000.00	\$850.00	\$1,700.00	\$1,502.00	\$3,004.00
36	MoDOT Grate and Bearing Plate (5 Ft. x 3 Ft.)	1	EA	\$1,250.00	\$1,250.00	\$850.00	\$850.00	\$2,253.00	\$2,253.00
37	MoDOT Precast Concrete Manhole - 72 in.	1	EA	\$6,500.00	\$6,500.00	\$7,400.00	\$7,400.00	\$7,281.00	\$7,281.00
38	MoDOT Manhole Frame and Cover, Type 2	1	EA	\$750.00	\$750.00	\$525.00	\$525.00	\$417.00	\$417.00
39	15 in. Class III Reinforced Concrete Pipe	39	LF	\$80.00	\$3,120.00	\$70.00	\$2,730.00	\$104.00	\$4,056.00

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Item No.	Item Description	Quantity	Unit	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
40	18 in. Class III Reinforced Concrete Pipe	92	LF	\$90.00	\$8,280.00	\$65.00	\$5,980.00	\$108.00	\$9,936.00
41	24 in. Class III Reinforced Concrete Pipe	168	LF	\$105.00	\$17,640.00	\$71.00	\$11,928.00	\$108.00	\$18,144.00
42	30 in. Class III Reinforced Concrete Pipe	74	LF	\$175.00	\$12,950.00	\$97.00	\$7,178.00	\$128.00	\$9,472.00
43	48 in. Class III Reinforced Concrete Pipe	175	LF	\$200.00	\$35,000.00	\$170.00	\$29,750.00	\$189.00	\$33,075.00
44	14x23 in. Elliptical Class IV RCP Pipe	48	LF	\$125.00	\$6,000.00	\$110.00	\$5,280.00	\$141.00	\$6,768.00
45	15 in. Concrete Flared End Section	2	EA	\$1,400.00	\$2,800.00	\$975.00	\$1,950.00	\$1,484.00	\$2,968.00
46	18 in. Concrete Flared End Section	2	EA	\$1,750.00	\$3,500.00	\$1,000.00	\$2,000.00	\$1,527.00	\$3,054.00
47	24 in. Concrete Flared End Section	1	EA	\$2,500.00	\$2,500.00	\$1,500.00	\$1,500.00	\$1,808.00	\$1,808.00
48	30 in. Concrete Flared End Section	3	EA	\$3,000.00	\$9,000.00	\$1,500.00	\$4,500.00	\$2,046.00	\$6,138.00
49	48 in. Concrete Flared End Section	4	EA	\$3,500.00	\$14,000.00	\$2,400.00	\$9,600.00	\$3,300.00	\$13,200.00
50	14x23 in. Elliptical Concrete Flared End Section	2	EA	\$1,000.00	\$2,000.00	\$1,400.00	\$2,800.00	\$2,020.00	\$4,040.00
51	Rock Lining	50	CY	\$100.00	\$5,000.00	\$180.00	\$9,000.00	\$150.00	\$7,500.00
<b>DRAINAGE ITEMS SUB-TOTAL:</b>					<b>\$148,790.00</b>		<b>\$121,071.00</b>		<b>\$151,552.00</b>
<b>SIGNING ITEMS</b>									
52	Perforated Square Steel Tube Post, 2.5 In., 12 Ga	112	LF	\$25.00	\$2,800.00	\$21.00	\$2,352.00	\$15.00	\$1,680.00
53	Perforated Square Steel Tube Post Anchor, 7 Ga	21	LF	\$40.00	\$840.00	\$21.00	\$441.00	\$33.00	\$693.00
54	Type SHR2L-1 Sign	80	SF	\$45.00	\$3,600.00	\$21.00	\$1,680.00	\$24.00	\$1,920.00
<b>SIGNING ITEMS SUB-TOTAL:</b>					<b>\$7,240.00</b>		<b>\$4,473.00</b>		<b>\$4,293.00</b>
<b>PAVEMENT MARKING ITEMS</b>									
55	4 In. White High Build Waterborne Pavement Marking Paint, Type L Beads	150	LF	\$1.50	\$225.00	\$0.55	\$82.50	\$0.50	\$75.00
56	4 In. Yellow High Build Waterborne Pavement Marking Paint, Type L Beads	11,195	LF	\$1.50	\$16,792.50	\$0.55	\$6,157.25	\$0.50	\$5,597.50
57	12 In. Yellow High Build Waterborne Pavement Marking Paint, Type L Beads	73	LF	\$5.00	\$365.00	\$3.05	\$222.65	\$3.00	\$219.00
58	Type 2 Preformed Marking Tape (Grooved) 24 In. White	18	LF	\$25.00	\$450.00	\$40.25	\$724.50	\$20.00	\$360.00
59	Type 2 Preformed Marking Tape (Grooved) Left/Right Arrow	1	EA	\$350.00	\$350.00	\$430.00	\$430.00	\$400.00	\$400.00
<b>PAVEMENT MARKING ITEMS SUB-TOTAL:</b>					<b>\$18,182.50</b>		<b>\$7,616.90</b>		<b>\$6,651.50</b>
<b>TRAFFIC CONTROL ITEMS</b>									
60	Construction Signs	181	SF	\$13.00	\$2,353.00	\$6.55	\$1,185.55	\$8.00	\$1,448.00
61	Advanced Warning Rail System	5	EA	\$75.00	\$375.00	\$56.00	\$280.00	\$45.00	\$225.00
62	Flag Assembly	5	ES	\$35.00	\$175.00	\$21.00	\$105.00	\$15.00	\$75.00
63	Channelizers (Trim Line)	50	EA	\$33.00	\$1,650.00	\$30.00	\$1,500.00	\$35.00	\$1,750.00
64	Type III Moveable Barricade	12	EA	\$210.00	\$2,520.00	\$185.00	\$2,220.00	\$120.00	\$1,440.00
65	Warning Light, Type B	6	EA	\$110.00	\$660.00	\$76.00	\$456.00	\$55.00	\$330.00
66	Changeable Message Sign W/O Comm. Interface, Contr Furn/Retained	2	EA	\$6,000.00	\$12,000.00	\$7,500.00	\$15,000.00	\$3,000.00	\$6,000.00
67	Pavement Edge Treatment	2,270	LF	\$3.50	\$7,945.00	\$5.50	\$12,485.00	\$12.30	\$27,921.00
<b>TRAFFIC CONTROL ITEMS SUB-TOTAL:</b>					<b>\$27,678.00</b>		<b>\$33,231.55</b>		<b>\$39,189.00</b>
<b>TOTAL CONSTRUCTION COST:</b>					<b>\$1,651,341.75</b>		<b>\$1,779,887.65</b>		<b>\$1,905,920.65</b>