SHAFER, KLINE & WARREN, INC.

3200 Penn Terrace Columbia, MO 65202 (573) 442-4537

Benton County, MO Fort Lyon Ave. Project Number BRO-B008 (14) Bridge No.10600241 June 26, 2018

				ENGINEER'S ESTIMATE		C&C Bridge & Concrete, Inc. 2124 River Lane Pilot Gove, MO 65276 660-834-3109		Gene Haile Excavating, Inc. 31571 Old Eighty Seven California, MO 65018 573-619-4275		Widle, Inc. 5700 M HWY Blackwater, MO 65322 660-846-3791		Boone Construction Co. 5611 Brown Station Road Columbia, MO 65202 573-474-1011		Chester Bross Construction Co. P.O. Box 430 Hanibal, MO 63401 573-221-5958		Lehamn Construction, LLC 900 Russellville Rd. California, MO 65018 573-796-8101		Sharp Excavating, LLC 41940 Highway 154 Perry, MO 63462 573-565-2651		
LINE	ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
ROADWAY I		Total (0.0)	1	1 4	642.000.00	ć12 000 00	42 000 00	42 000 00	¢2.000.00	¢2.000.00	45.000.00	45.000.00	AC 500 00	¢6 500 00	¢2.000.00	¢2.000.00	60.475.00	60.475.00	÷40,000,00	\$10,000,00
1 2	201 202.3	Clearing & Grubbing (0.8 acres) Removal of Existing Improvements	L.S. L.S.	1 1	\$12,000.00 \$3,000.00	\$12,000.00 \$3,000.00	\$2,000.00 \$2,000.00	\$2,000.00 \$2,000.00	\$3,000.00 \$1,500.00	\$3,000.00 \$1,500.00	\$5,000.00 \$5,000.00	\$5,000.00 \$5,000.00	\$6,500.00 \$4,000.00	\$6,500.00 \$4,000.00	\$3,000.00 \$7,000.00	\$3,000.00 \$7,000.00	\$8,475.00 \$7,900.00	\$8,475.00 \$7,900.00	\$10,000.00 \$10,000.00	\$10,000.00 \$10,000.00
3	202.3	Embankment in Place	C.Y.	2,693	\$5,000.00	\$40,395.00	\$2,000.00	\$18,851.00	\$1,300.00	\$40,395.00	\$12.00	\$3,000.00	\$15.00	\$40,395.00	\$13.00	\$35,000.00	\$16.00	\$43,088.00	\$10,000.00	\$26,930.00
4	304	4" Aggregate Base Course (2" Clean)	S.Y.	1,045	\$10.00	\$10,450.00	\$3.00	\$3,135.00	\$6.00	\$6,270.00	\$4.85	\$5,068.25	\$3.15	\$3,291.75	\$4.00	\$4,180.00	\$9.00	\$9,405.00	\$3.00	\$3,135.00
5	310	4" Crushed Stone Surface	S.Y.	1,137	\$8.00	\$9,096.00	\$3.00	\$3,411.00	\$6.00	\$6,822.00	\$4.18	\$4,752.66	\$3.25	\$3,695.25	\$4.00	\$4,548.00	\$8.00	\$9,096.00	\$3.00	\$3,411.00
6	606.1	Guardrail Transition Section	EACH	4	\$500.00	\$2,000.00	\$300.00	\$1,200.00	\$325.00	\$1,300.00	\$320.00	\$1,280.00	\$295.00	\$1,180.00	\$500.00	\$2,000.00	\$350.00	\$1,400.00	\$400.00	\$1,600.00
7	606.1	Type A Crashworty End Terminal	EACH	4	\$2,500.00	\$10,000.00	\$2,800.00	\$11,200.00	\$3,200.00	\$12,800.00	\$2,627.00	\$10,508.00	\$2,400.00	\$9,600.00	\$2,500.00	\$10,000.00	\$2,700.00	\$10,800.00	\$2,500.00	\$10,000.00
8	607.2	Fence	L.F.	746	\$12.00	\$8,952.00	\$7.00	\$5,222.00	\$8.00	\$5,968.00	\$1.15	\$857.90	\$6.00	\$4,476.00	\$9.00	\$6,714.00	\$11.00	\$8,206.00	\$7.00	\$5,222.00
9	607.2	Drive Gate	L.F.	16	\$25.00	\$400.00	\$500.00	\$8,000.00	\$20.00	\$320.00	\$100.00	\$1,600.00	\$20.00	\$320.00	\$20.00	\$320.00	\$65.00	\$1,040.00	\$40.00	\$640.00
10	607.2	Water Gate	L.F.	110	\$175.00	\$19,250.00	\$65.00	\$7,150.00	\$75.00	\$8,250.00	\$68.50	\$7,535.00	\$100.00	\$11,000.00	\$180.00	\$19,800.00	\$58.00	\$6,380.00	\$35.00	\$3,850.00
11	618	Mobilization	L.S.	1	\$40,000.00	\$40,000.00	\$20,000.00	\$20,000.00	\$25,000.00	\$25,000.00	\$30,000.00	\$30,000.00	\$38,500.00	\$38,500.00	\$50,000.00	\$50,000.00	\$26,290.00	\$26,290.00	\$130,000.00	\$130,000.00
12	627	Contractor Surveying and Staking	L.S.	1	\$3,500.00	\$3,500.00	\$3,000.00	\$3,000.00	\$3,500.00	\$3,500.00	\$3,500.00	\$3,500.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$7,500.00	\$7,500.00	\$3,500.00	\$3,500.00
13	725	24" Aluminized Steel Corrugated Pipe	L.F.	40	\$40.00	\$1,600.00	\$50.00	\$2,000.00	\$35.00	\$1,400.00	\$45.55	\$1,822.00	\$48.00	\$1,920.00	\$60.00	\$2,400.00	\$67.00	\$2,680.00	\$40.00	\$1,600.00
14	805	Seeding (includes Fertilizing & Mulching)	ACRE	0.8	\$5,000.00	\$3,750.00	\$5,500.00	\$4,400.00	\$4,750.00	\$3,800.00	\$1,000.00	\$800.00	\$3,000.00	\$2,400.00	\$4,000.00	\$3,200.00	\$5,525.00	\$4,420.00	\$8,000.00	\$6,400.00
15	806.3	Ditch Checks	EACH	18	\$250.00	\$4,500.00	\$250.00	\$4,500.00	\$150.00	\$2,700.00	\$44.98	\$809.64	\$200.00	\$3,600.00	\$200.00	\$3,600.00	\$175.00	\$3,150.00	\$150.00	\$2,700.00
16	806.7	Silt Fence	L.F.	185	\$4.00	\$740.00	\$5.50	\$1,017.50	\$3.00	\$555.00	\$0.72	\$133.20	\$3.00	\$555.00	\$6.00	\$1,110.00	\$4.00	\$740.00	\$0.75	\$138.75
		•	SUBTOTA	L ROADWAY		\$169,633.00		\$97,086.50		\$123,580.00	· · ·	\$110,982.65		\$134,433.00		\$155,881.00		\$150,570.00		\$219,126.75
SIGNING ITE	MS	•	•		1															
17	616	Type III Moveable Barricades	EACH	6	\$375.00	\$2,250.00	\$150.00	\$900.00	\$150.00	\$900.00	\$285.00	\$1,710.00	\$140.00	\$840.00	\$300.00	\$1,800.00	\$150.00	\$900.00	\$300.00	\$1,800.00
18	616	Construction Signs	EACH	6	\$200.00	\$1,200.00	\$125.00	\$750.00	\$125.00	\$750.00	\$150.00	\$900.00	\$105.00	\$630.00	\$400.00	\$2,400.00	\$115.00	\$690.00	\$150.00	\$900.00
			SUBTO	TAL SIGNING		\$3,450.00		\$1,650.00		\$1,650.00	•	\$2,610.00	-	\$1,470.00	-	\$4,200.00		\$1,590.00	•	\$2,700.00
	_																			
BRIDGE ITEM		Is a constant	1 64	1 47	450.00	42 250 00	†25 00	Å1.175.00	625 00	64.475.00	\$200.00	do 400 00	462.50	62 004 F0	425.00	64.475.00	644.00	42.050.00	†25.00	64.645.00
19 20	206 216.1	Excavation for Structures Removal of Existing Bridge	C.Y.	47	\$50.00 \$8.000.00	\$2,350.00 \$8,000.00	\$25.00 \$10.000.00	\$1,175.00 \$10.000.00	\$25.00 \$6.000.00	\$1,175.00 \$6.000.00	\$200.00 \$20.000.00	\$9,400.00 \$20.000.00	\$63.50 \$13.500.00	\$2,984.50 \$13,500.00	\$25.00 \$5.500.00	\$1,175.00 \$5.500.00	\$44.00 \$18.100.00	\$2,068.00 \$18.100.00	\$35.00 \$13.000.00	\$1,645.00 \$13.000.00
21	611.3	Type 2 Rock Blanket	C.Y.	611	\$60.00	\$36,660.00	\$10,000.00	\$24,440.00	\$45.00	\$27,495.00	\$38.00	\$20,000.00	\$13,300.00	\$13,300.00	\$3,300.00	\$3,300.00	\$18,100.00	\$31,772.00	\$15,000.00	\$30,550.00
22	624	Geotextile Fabric	S.Y.	1,080	\$3.00	\$3,240.00		\$2,160.00	\$3.00	\$3,240.00	\$1.56	\$1,684.80	\$2.00	\$2,160.00	\$2.00	\$2,160.00	\$4.00	\$4,320.00	\$3.00	\$3,240.00
23	702	HP10x42 Structural Steel Piles	L.F.	168	\$70.00	\$11,760.00	\$80.00	\$13,440.00	\$100.00	\$16,800.00	\$64.75	\$10,878.00	\$77.00	\$12,936.00	\$70.00	\$11,760.00	\$68.00	\$11,424.00	\$35.00	\$5,880.00
24	702	Pile Point Reinforcement	EACH	14	\$150.00	\$2,100.00	\$125.00	\$1,750.00	\$110.00	\$1,540.00	\$228.00	\$3,192.00	\$90.00	\$1,260.00	\$150.00	\$2,100.00	\$158.00	\$2,212.00	\$300.00	\$4,200.00
25	702.4.3	Pre-Bore for Piling	L.F.	140	\$200.00	\$28,000.00	\$100.00	\$14,000.00	\$100.00	\$14,000.00	\$120.80	\$16,912.00	\$135.00	\$18,900.00	\$100.00	\$14,000.00	\$113.00	\$15,820.00	\$145.00	\$20,300.00
26 27	703 703	Class B-2 Concrete Slab on Concrete NU-Girder	C.Y. S.Y.	56.8 290	\$650.00 \$350.00	\$36,920.00 \$101,500.00	\$350.00 \$265.00	\$19,880.00 \$76,850.00	\$550.00 \$290.00	\$31,240.00 \$84,100.00	\$228.95 \$225.00	\$13,004.36 \$65,250.00	\$565.00 \$375.00	\$32,092.00 \$108,750.00	\$500.00 \$325.00	\$28,400.00 \$94,250.00	\$608.00 \$280.00	\$34,534.40 \$81,200.00	\$650.00 \$225.00	\$36,920.00 \$65,250.00
28	705 705	Prestressed Concrete NU53 Girder (113'-4")	EACH	3	\$32,000.00	\$96,000.00	\$35,000.00	\$105,000.00	\$35,000.00	\$105,000.00	\$48,333.00	\$144,999.00	\$33,500.00	\$100,500.00	\$41,000.00	\$123,000.00	\$37,100.00	\$111,300.00	\$37,000.00	\$111,000.00
29	713	SL-1 Rail on Bridge	L.F.	234	\$60.00	\$14,040.00		\$11,700.00	\$79.00	\$18,486.00	\$58.00	\$13,572.00	\$54.00	\$12,636.00	\$65.00	\$15,210.00	\$80.00	\$18,720.00	\$50.00	\$11,700.00
30	715	Vertical Drains at End Bents	EACH	2	\$1,500.00	\$3,000.00	\$1,000.00	\$2,000.00	\$1,300.00	\$2,600.00	\$732.00	\$1,464.00	\$1,800.00	\$3,600.00	\$2,000.00	\$4,000.00	\$2,300.00	\$4,600.00	\$650.00	\$1,300.00
31	716.1	Plain Neoprene Bearing Pads	EACH	6	\$150.00	\$900.00	\$125.00	\$750.00	\$121.00	\$726.00	\$320.00	\$1,920.00	\$200.00	\$1,200.00	\$300.00	\$1,800.00	\$304.00	\$1,824.00	\$175.00	\$1,050.00
				OTAL BRIDGE		\$344,470.00		\$283,145.00		\$312,402.00		\$325,494.16		\$343,512.50		\$327,795.00		\$337,894.40		\$306,035.00
			TOTAL (CONTRACTOR		\$517,553.00		\$381,881.50		\$437,632.00		\$439,086.81		\$479,415.50		\$487,876.00		\$490,054.40		\$527,861.75

WORKING DAYS = 120

LIQUIDATED DAMAGES = \$950 PER DAY

Note: Text in Red is Bidders error in calculations.

SHAFER, KLINE & WARREN, INC.

3200 Penn Terrace Columbia, MO 65202 (573) 442-4537

Benton County, MO Fort Lyon Ave. Project Number BRO-B008 (14) Bridge No.10600241 June 26, 2018

					5100 F Poplar Blut	I Contracting, Inc. HWY PP ff, MO 63901 35-1501	Do-Rite Contrstuction & Excavating 1719 S HWY 65 Lincoln, MO 65338 660-547-2627		
LINE	ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	
ROADWAY I									
1	201	Clearing & Grubbing (0.8 acres)	L.S.	1	\$10,000.00	\$10,000.00	\$5,750.00	\$5,750.00	
2	202.3	Removal of Existing Improvements	L.S.	1	\$10,000.00	\$10,000.00		\$5,900.00	
3	203	Embankment in Place	C.Y.	2,693	\$15.00	\$40,395.00	\$17.65	\$47,531.45	
4	304	4" Aggregate Base Course (2" Clean)	S.Y.	1,045	\$10.00	\$10,450.00		\$6,740.25	
5	310	4" Crushed Stone Surface	S.Y.	1,137	\$12.00	\$13,644.00	\$6.45	\$7,333.65	
6	606.1	Guardrail Transition Section	EACH	4	\$1,000.00	\$4,000.00	\$348.00	\$1,392.00	
7	606.1	Type A Crashworty End Terminal	EACH	4	\$2,200.00	\$8,800.00	\$2,830.00	\$11,320.00	
8	607.2	Fence	L.F.	746	\$6.50	\$4,849.00	\$10.60	\$7,907.60	
9	607.2	Drive Gate	L.F.	16	\$140.00	\$2,240.00	\$16.00	\$256.00	
10	607.2	Water Gate	L.F.	110	\$30.00	\$3,300.00	\$169.00	\$18,590.00	
11	618	Mobilization	L.S.	1	\$50,000.00	\$50,000.00	· ·	\$13,800.00	
12	627	Contractor Surveying and Staking	L.S.	1	\$4,000.00	\$4,000.00	1 ' ' 1	\$4,200.00	
13	725	24" Aluminized Steel Corrugated Pipe	L.F.	40	\$100.00	\$4,000.00		\$2,490.00	
14	805	Seeding (includes Fertilizing & Mulching)	ACRE	0.8	\$4,000.00	\$3,200.00	\$5,305.00	\$4,244.00	
15	806.3	Ditch Checks	EACH	18	\$500.00	\$9,000.00	1 ' ' 1	\$6,390.00	
16	806.7	Silt Fence	L.F.	185	\$6.50	\$1,202.50	\$7.65	\$1,415.25	
16	800.7	Silt Felice		L ROADWAY	\$6.50	\$1,202.50	\$7.03	\$1,415.25 \$145,260.20	
	1	1	JUBIUIA	I ROADWAT	1	\$179,080.50		\$145,260.20	
CICNUNIC ITE	146								
SIGNING ITE		I	1	T -	4	4	4	4	
17	616	Type III Moveable Barricades	EACH	6	\$375.00	\$2,250.00	\$165.00	\$990.00	
18	616	Construction Signs	EACH	6	\$180.00	\$1,080.00	\$125.00	\$750.00	
			SUBTO	TAL SIGNING		\$3,330.00		\$1,740.00	
DDID 05 1754									
BRIDGE ITEN		Transation for Charletons	CV	47	Ć48.00	¢2.256.00	Ć112.2F	ĆE 275 75	
19 20	206 216.1	Excavation for Structures Removal of Existing Bridge	C.Y. L.S.	47 1	\$48.00 \$35,000.00	\$2,256.00 \$35,000.00	\$112.25 \$41,300.00	\$5,275.75 \$41,300.00	
21	611.3	Type 2 Rock Blanket	C.Y.	611	\$47.00	\$28,717.00		\$54,012.40	
22	624	Geotextile Fabric	S.Y.	1,080	\$2.00	\$2,160.00		\$3,834.00	
23	702	HP10x42 Structural Steel Piles	L.F.	168	\$150.00	\$25,200.00	I I	\$27,216.00	
24	702	Pile Point Reinforcement	EACH	14	\$150.00	\$2,100.00		\$1,781.50	
25	702.4.3	Pre-Bore for Piling	L.F.	140	\$215.00	\$30,100.00		\$14,490.00	
26	703	Class B-2 Concrete	C.Y.	56.8	\$1,000.00	\$56,800.00		\$170,400.00	
27	703	Slab on Concrete NU-Girder	S.Y.	290	\$160.00	\$46,400.00		\$87,000.00	
28	705	Prestressed Concrete NU53 Girder (113'-4")	EACH	3	\$37,500.00	\$112,500.00	\$52,045.00	\$156,135.00	
29	713 715	SL-1 Rail on Bridge	L.F.	234	\$80.00	\$18,720.00		\$12,928.50	
30 31	715 716.1	Vertical Drains at End Bents Plain Neoprene Bearing Pads	EACH EACH	6	\$1,400.00 \$300.00	\$2,800.00 \$1,800.00	\$2,455.00 \$245.00	\$4,910.00 \$1,470.00	
31	/ 10.1	in an neopicine bearing raus	_	OTAL BRIDGE	3300.00	\$364,553.00		\$580,753.15	
				CONTRACTOR	<u> </u>	\$546,963.50		\$727,753.35	
			IOIAL	JUNIKACIOK		9340,303.5U		\$121,133.35	

WORKING DAYS = 120 LIQUIDATED DAMAGES = \$950 PER DAY

