Shafer, Kline and Warren, Inc. 107 Butler Street

Macon, MO 63552 Ph: (660) 385-6441

Wednseday, August 17, 2016

Reed Dozing & Contracting,LLC LAMKE Trenching & Excavating, Inc. 4923 South Point Road 19935 E. Yater Rd. 16323 Concord Hill Road :: Washington, MO 63090 :: Sheldon, MO 64784 :: Marthasville, MO 63357-1413 636-239-2028 :: 417-884-2629 636-932-4649 ::

East Wastewater Treatment Facility Improvements	<u>UNIT</u>	QUANTITY	:: ::	UNIT PRICE	: <u>TOTAL</u> :		:: <u>TOTAL</u> ::		:: <u>TOTAL</u> ::
East Lagoon removal of outlet structure piping, construct emergency spillway,									
1 remove and dispose of existing curtain baffles, & dirtwork for improvements	LS	1	* ::	\$67,670.00 =	\$67,670.00 :	: \$200,000.00 :	= \$200,000.00 ::	\$248,795.00 =	\$248,795.00 ::
2 Partial East Lagoon Sludge Removal	DT	400	* ::	\$330.00 =	\$132,000.00 :			\$403.00 =	\$161,200.00 ::
3 SAGR from Nelson Environmental	LS	1	* ::	\$288,100.00 =	\$288,100.00 :			\$288,100.00 =	\$288,100.00 ::
4 SAGR from Nelson Environmental Equipment Installation	LS	1	* ::	\$136,720.00 =	\$136,720.00 :			\$160,750.00 =	\$160,750.00 ::
Influent Line From Lagoon to SAGR System-			::	<i>+,</i> ·	;		::	7 - 2 3 7 . 2 3 . 2 3	::
82' of 8" PVC, 113' of 10" DIP, 2 - 10" Gate Valves, 2 - 10" Tees, one 10" 45°									
5 Elbow and one 10" 90° elbow	LS	1	* ::	\$18,300.00 =	\$18,300.00 :	: \$20,000.00 :	\$20,000.00 ::	\$21,068.00 =	\$21,068.00 ::
Items to be provided for by contractor - SAGR			::	. ,	:		::		::
6 Uniformed graded clean rock	CY	3,970	* ::	\$45.00 =	\$178,650.00 :	: \$60.00 :	\$238,200.00 ::	\$27.00 =	\$107,190.00 ::
7 Insulating wood chips	CY	450	* ::	\$35.00 =	\$15,750.00 :			\$21.00 =	\$9,450.00 ::
8 Non-Woven Geotextile (8 oz.)	SF	41,860	* ::	\$1.00 =	\$41,860.00 :			\$0.71 =	\$29,720.60 ::
9 HDPE Liner	SF	25,400	* ::	\$2.50 =	\$63,500.00 :			\$3.10 =	\$78,740.00 ::
10 Wall Framing & Sheathing	LF	1,070	* ::	\$19.00 =	\$20,330.00 :			\$45.00 =	\$48,150.00 ::
11 Influent Flow Splitter Structure	LS	1	* ::	\$2,490.00 =	\$2,490.00 :			\$3,950.00 =	\$3,950.00 ::
12 8" Gate Valves	EA	6	* ::	\$1,270.00 =	\$7,620.00 :			\$1,241.00 =	\$7,446.00 ::
Blowers with concrete pad, 96' of 4" HDPE piping, 8 - 4" control valves, 20' of 6"				. ,	. ,	. ,	. ,	. ,	
13 DIP & 250' of 6" HDPE piping	LS	1	* ::	\$98,925.00 =	\$98,925.00 :	: \$113,000.00 :	\$113,000.00 ::	\$95,184.00 =	\$95,184.00 ::
UV materials for future connection - concrete pad (6'x12'), 2-8" G.V, 2-10"x8"									
14 tees, 2-8" 90° elbows, 12' of 8" PVC, and 2 PVC caps	LS	1	* ::	\$8,065.00 =	\$8,065.00 :	: \$13,000.00 :	\$13,000.00 ::	\$12,058.00 =	\$12,058.00 ::
			::		•	:	::		::
Effluent Line From SAGR System			::		•	:	::		::
15 8" SDR-35 PVC	LF	85	* ::	\$35.00 =	\$2,975.00 :	: \$60.00 :	\$5,100.00 ::	\$54.85 =	\$4,662.25 ::
16 10" SDR-35 PVC	LF	287	* ::	\$29.00 =	\$8,323.00 :	: \$65.00 :	\$18,655.00 ::	\$57.67 =	\$16,551.29 ::
17 10" D.I.P.	LF	16	* ::	\$61.00 =	\$976.00 :	: \$95.00 :	\$1,520.00 ::	\$100.00 =	\$1,600.00 ::
18 Effluent Control Structure No. 1	EA	1	* ::	\$3,500.00 =	\$3,500.00 :	: \$6,200.00 :	\$6,200.00 ::	\$13,620.00 =	\$13,620.00 ::
19 Effluent Control Structure No. 2	EA	1	* ::	\$3,500.00 =	\$3,500.00 :	: \$6,200.00 :	\$6,200.00 ::	\$3,670.00 =	\$3,670.00 ::
20 Concrete Encasement	LF	25	* ::	\$75.00 =	\$1,875.00 :	: \$150.00 :	\$3,750.00 ::	\$75.00 =	\$1,875.00 ::
21 Parshall Flume	LS	1	* ::	\$12,490.00 =	\$12,490.00 :	: \$23,000.00 :	\$23,000.00 ::	\$18,775.00 =	\$18,775.00 ::
22 Concrete Apron	LS	1	* ::	\$1,500.00 =	\$1,500.00 :	: \$4,800.00 :	\$4,800.00 ::	\$11,640.00 =	\$11,640.00 ::
23 Type 2 Rock Ditch Liner (150 CY)	CY	150	* ::	\$55.00 =	\$8,250.00 :	: \$40.00 :	\$6,000.00 ::	\$75.00 =	\$11,250.00 ::
24 15" CMP culvert pipe	LF	40	* ::	\$40.00 =	\$1,600.00 :	: \$50.00 :	\$2,000.00 ::	\$70.00 =	\$2,800.00 ::
25 Gravel Surface Drive Area	SY	1,633	* ::	\$8.00 =	13,064.00 :	: \$10.00 :	\$16,330.00 ::	\$12.00 =	\$19,596.00 ::
Implementation, Reporting & Maintenance of the SWPPP including obtaining									
26 the Land Disturbance Permit from DNR	LS	1	* ::	\$40,000.00 =	\$40,000.00 :	: \$45,000.00 :	\$45,000.00 ::	\$16,200.00 =	\$16,200.00 ::
27 Staking	LS	1	* ::	\$12,000.00 =	\$12,000.00 :	: \$9,500.00 :	\$9,500.00 ::	\$26,238.00 =	\$26,238.00 ::
28 Fertilizing, Seeding & Mulching	AC	3.75	* ::	\$2,200.00 =	\$8,250.00 :	: \$4,500.00 :	\$16,875.00 ::	\$3,135.00 =	\$11,756.25 ::
Total for East Wastewater Treatment Facility Improvements			::		\$1,198,283.00 :	:	\$1,384,249.60 ::		\$1,432,035.39 ::
Southwest Lift Station and Forcemain	<u>UNIT</u>	QUANTITY	::	UNIT PRICE	: <u>TOTAL</u> :		:: <u>TOTAL</u> ::	UNIT PRICE	:: <u>TOTAL</u> ::
8" SDR-35 PVC, installed complete including trench embedment, backfill and	ONT	QUANTITI		ONIT PRICE	IOIAL .	. ONIT FRICE	<u>101AL</u>	ONIT PRICE	IOIAL
29 cleanup	LF	92	* ::	\$35.00 =	\$3,220.00 :	: \$60.00 :	\$5,520.00 ::	\$54.95 =	\$5,055.40 ::
10" SDR-35 PVC, installed complete including trench embedment, backfill and		32	••	γ33.00	ψ3,220.00°.	. , , , , , , , , , , , , , , , , , , ,	φ3,320.00	φ3 1.33	<i>43,033.10</i>
30 cleanup	LF	287	* ::	\$29.00 =	\$8,323.00 :	: \$65.00 :	= \$18,655.00 ::	\$57.67 =	\$16,551.29 ::
4' Dia. precast concrete manhole installed complete including trench		207		φ 2 3.00 -	Ç0,323.00 .	. 705.00	710,055.00	Ç37.07 -	Q10,001.20
31 embedment, backfill & cleanup	EA	3	* ::	\$1,750.00 =	\$5,250.00 :	: \$3,000.00 :	= \$9,000.00 ::	\$2,411.00 =	\$7,233.00 ::
32 4' Dia. manhole extra depth	VF	2	* ::	\$250.00 =	\$500.00 :			\$350.00 =	\$700.00 ::
33 Connect to existing sewer main complete, including backfill & cleanup	EA	2	* ::	\$1,000.00 =	\$2,000.00 :			\$7,444.00 =	\$14,888.00 ::
34 8" D.I.P. installed complete including trench embedment, backfill & cleanup	LF	67	* ::	\$70.00 =	\$4,690.00 :			\$55.00 =	\$3,685.00 ::
5. 5 2 Matanea complete meaning trener embeament, backing a cleanup		5,	••	Ç,0.00 =	γ - ,050.00 .	. 900.00	γ-,22.00	\$33.00	\$3,003.00

KJ Unnerstall Construction

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8" SDR-21 PVC forcemain installed complete including trench embedment,											
35 tracer wire, backfill & cleanup	LF	7,421	* ::	\$19.00 =	\$140,999.00	:: \$27.0	n -	\$200,367.00 ::	\$16.64 =	\$123,485.44	
36 8" R.J. PVC for Railroad and Highway bores installed complete with tracer wire	LF	387	* ::	\$250.00 =	\$96,750.00	•		\$49,149.00 ::	\$270.00 =	\$104,490.00	
	LI	367	••	\$230.00 =	\$30,730.00	\$127.0	- U	\$49,149.00	\$270.00 =	\$104,430.00	
8" R.J. PVC Directional Bore installed complete including tracer wire, backfill and	LF	455	*	\$90.00 =	¢40.0E0.00	(110.0	ın –	¢50,050,00	¢85.00 -	¢20 67E 00	
37 cleanup	LF	455	* ::	\$90.00 =	\$40,950.00	:: \$110.0	0 =	\$50,050.00 ::	\$85.00 =	\$38,675.00	••
8" D.I. R.J. 11.25° Elbow installed complete including tracer wire, backing block,	ΓΛ	C	*	¢350.00 -	ć2 100 00	6220.0	ıo –	ć1 000 00	¢464.00 -	¢2.794.00	
38 backfill & cleanup	EA	6	* ::	\$350.00 =	\$2,100.00	:: \$330.0	0 =	\$1,980.00 ::	\$464.00 =	\$2,784.00	::
8" D.I. R.J. 22.5° Elbow installed complete including tracer wire, backing block,	Ε.Δ.	2	. .	Ć400.00	¢000 00	¢220.0	.0	¢cc0.00	ĆE04.00	¢4 000 00	
39 backfill & cleanup	EA	2	* ::	\$400.00 =	\$800.00	:: \$330.0	0 =	\$660.00 ::	\$504.00 =	\$1,008.00	::
8" D.I. R.J. 45° Elbow installed complete including tracer wire, backing block,	Ε.Δ.	0	4	Ć450.00	Ć4.0E0.00	6220.0	.0	ć2 070 00 ···	ĆE04.00	Ć4 F2C 00	
40 backfill & cleanup	EA	9	* ::	\$450.00 =	\$4,050.00	•		\$2,970.00 ::	\$504.00 =	\$4,536.00	
41 8" Duckbill check valve installed complete	EA	1	* ::	\$1,025.00 =	\$1,025.00	. ,		\$4,200.00 ::	\$893.45 =	\$893.45	
42 Combination Air Release Valve installed complete including backfill & cleanup	EA	11	* ::	\$3,800.00 =	\$41,800.00			\$42,350.00 ::	\$2,985.00 =	\$32,835.00	
43 Tracer Wire Test Station installed complete including backfill and cleanup	EA	6	* ::	\$200.00 =	\$1,200.00			\$3,300.00 ::	\$217.50 =	\$1,305.00	
44 Reboundable Location Markers	EA	5	* ::	\$50.00 =	\$250.00	:: \$550.0	0 =	\$2,750.00 ::	\$77.00 =	\$385.00	::
16" Steel Casing Highway Bore complete including casing spacers, end seals,		400		400.00	40.500.00	44.50.0	•	440.000.00	4005.00	400.000.00	
45 backfill & cleanup	LF	120	* ::	\$30.00 =	\$3,600.00	:: \$160.0	0 =	\$19,200.00 ::	\$325.00 =	\$39,000.00	::
16" Steel Casing Railroad Bore complete including casing spacers, end seals,		240		4.5.00	40.450.00	44000	•	400.000.00	40.00.00	476.000.00	
46 signs at ROW, backfill & cleanup	LF	210	* ::	\$45.00 =	\$9,450.00	:: \$190.0	0 =	\$39,900.00 ::	\$362.00 =	\$76,020.00	::
Construct Type 2 Rock Ditch Liner Outfall Structure for 8" forcemain from SW			_								
47 Lift Station to East Lagoon	CY	21.5	* ::	\$56.00 =	\$1,204.00			\$860.00 ::	\$125.00 =	\$2,687.50	
48 Abandon & Plug existing sewer main complete including cleanup	EA	1	* ::	\$5,000.00 =	\$5,000.00	:: \$1,800.0	0 =	\$1,800.00 ::	\$1,250.00 =	\$1,250.00	::
Construct Southwest Lift Station, complete including valve vault, piping,											
49 electrical, gravel access area, backfill and site restoration	LS	1	* ::	\$129,200.00 =	\$129,200.00	:: \$163,000.0	0 =	\$163,000.00 ::	\$262,935.00 =	\$262,935.00	::
Abandonment of cells 2 & 3 of the SW lagoon complete including removal of											
existing structures and piping, site grading, constructing emergency overflow											
50 spillways to Cell No. 1, cleanup site restoration	LS	1	* ::	\$67,800.00 =	\$67,800.00	:: \$140,000.0	0 =	\$140,000.00 ::	\$192,487.00 =	\$192,487.00	::
Total for Southwest Lift Station and Forcemain			::		\$570,161.00	::		\$762,183.00 ::		\$932,889.08	::
			::			::		::			::
East Lift Station Replacement	<u>UNIT</u>	QUANTITY	::	UNIT PRICE	<u>TOTAL</u>	:: UNIT PRICE		TOTAL ::	UNIT PRICE	<u>TOTAL</u>	::
Construct East Lift Station, complete including valve vault, piping to existing 8"											
forcemain, electrical, piping to emergency storage, chain link fence, gravel											
51 access area, backfill & cleanup	LS	1	* ::	\$130,220.00 =	\$130,220.00	:: \$147,000.0	0 =	\$147,000.00 ::	\$283,530.00 =	\$283,530.00	::
Construct emergency storage, complete with access manhole, cleanout vents,											
52 connection to new East Lift Station, backfill and cleanup	LS	1	* ::	\$119,885.00 =	\$119,885.00	:: \$123,967.4	0 =	\$123,967.40 ::	\$113,579.00 =	\$113,579.00	::
Remove existing East LS, block building, valve vaults, 6" gate valve, removal of 6"											
line & cap existing 6" line (3 places) removal of existing 8" forcemain backfill and											
53 cleanup	LS	1	* ::	\$20,140.00 =	\$20,140.00	:: \$40,000.0	0 =	\$40,000.00 ::	\$12,860.00 =	\$12,860.00	::
Total for East Lift Station Replacement			::		\$270,245.00	::		\$310,967.40 ::		\$409,969.00	::
					40.000.000.00						
TOTAL BASE BID					\$2,038,689.00			\$2,457,400.00		\$2,774,893.47	

EA	15	•								
		* ::	\$1,100.00 =	\$16,500.00	::	\$120.00 =	\$1,800.00 ::	\$850.00 =	\$12,750.00	::
LF	1632	* ::	\$37.50 =	\$61,200.00	::	\$25.00 =	\$40,800.00 ::	\$36.00 =	\$58,752.00	::
EA	15	* ::	\$2,000.00 =	\$30,000.00	::	\$720.00 =	\$10,800.00 ::	\$1,250.00 =	\$18,750.00	::
EA	6	* ::	\$4,050.00 =	\$24,300.00	_ ::	\$2,050.00 =	\$12,300.00 ::	\$4,500.00 =	\$27,000.00	::
		::		\$132,000.00	::		\$65,700.00		\$117,252.00	::
		::			::		::			::
		::		\$2,170,689.00	::		\$2,523,100.00 ::		\$2,892,145.47	::
		::			::		::			::
<u>UNIT</u>	QUANTITY	::	UNIT PRICE	TOTAL	::	UNIT PRICE	TOTAL ::	UNIT PRICE	<u>TOTAL</u>	::
LS	1	* ::	\$318,367.00 =	\$318,367.00	::	\$498,000.00 =	\$498,000.00 ::	\$378,938.00 =	\$378,938.00	::
		::		\$318,367.00	::		\$498,000.00 ::		\$378,938.00	::
		::			::		::			::
		::		\$2,489,056.00	::		\$3,021,100.00 ::		\$3,271,083.47	::
		::			::		::			::
<u>UNIT</u>	QUANTITY	::	UNIT PRICE	TOTAL	::	UNIT PRICE	TOTAL ::	UNIT PRICE	<u>TOTAL</u>	::
DT	2060	* ::	\$138.50 =	\$285,310.00	::	\$145.00 =	\$298,700.00 ::	\$375.00 =	\$772,500.00	::
DT	1450	* ::	\$138.50 =	\$200,825.00	_ ::	\$145.00 =	\$210,250.00 ::	\$375.00 =	\$543,750.00	::
		::		\$486,135.00	::		\$508,950.00		\$1,316,250.00	::
		::		\$2,975,191.00	::		\$3,530,050.00 ::		\$4,587,333.47	:: ::
	UNIT LS UNIT DT	UNIT QUANTITY LS 1 UNIT QUANTITY DT QUANTITY 2060	EA 6 * :: :: :: ::: ::: UNIT QUANTITY :: :: :: :: :: :: :: :: :: :: :: :: ::	EA 6 * :: \$4,050.00 =	EA 6 * :: \$4,050.00 = \$24,300.00 \$132,000.00 :: \$2,170,689.00 :: \$2,170,689.00 :: \$2,170,689.00 :: \$2,170,689.00 :: \$318,367.00 = \$318,367.00 :: \$318,367.00 :: \$2,489,056.00 :: \$2,489,056.00 :: \$2,489,056.00 :: \$138.50 = \$285,310.00 DT 1450 * :: \$138.50 = \$285,310.00 \$486,135.00 :: \$486,135.00	EA 6 * :: \$4,050.00 = \$24,300.00 :: \$132,000.00 :: \$132,000.00 :: \$132,000.00 :: : : \$2,170,689.00 :: :: : : : : : : : : : : : : : : :	EA 6 * :: \$4,050.00 = \$24,300.00 :: \$2,050.00 = \$ \$132,000.00 :: \$2,170,689.00 :: :: \$2,170,689.00 :: :: UNIT PRICE TOTAL :: UNIT PRICE LS 1 * :: \$318,367.00 = \$318,367.00 :: \$498,000.00 = \$:: \$2,489,056.00 :: :: :: \$2,489,056.00 :: :: :: \$2,489,056.00 :: :: :: \$138.50 = \$285,310.00 :: \$145.00 = \$ DT 2060 * :: \$138.50 = \$285,310.00 :: \$145.00 = \$ DT 1450 * :: \$138.50 = \$200,825.00 :: \$145.00 = \$ \$486,135.00 :: \$ \$486,135.00 :: \$	EA 6 * :: \$4,050.00 = \$24,300.00 :: \$2,050.00 = \$12,300.00 :: \$65,700.00 :: \$65,700.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,498,000.00 :: \$498,000	EA 6 * :: \$4,050.00 = \$24,300.00 :: \$2,050.00 = \$12,300.00 :: \$4,500.00 = \$132,000.00 :: \$4,500.00 = \$132,000.00 :: \$4,500.00 = \$132,000.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$2,523,100.00 :: \$3,78,938.00 = \$2,523,100.00 :: \$3,78,938.00 = \$2,738,938.00 :: \$3,78,938.00 :	EA 6 * :: \$4,050.00 = \$24,300.00 :: \$2,050.00 = \$12,300.00 :: \$4,500.00 = \$27,000.00 \$117,252.00 :: \$117,252.00 :: \$117,252.00 :: \$2,523,100.00 :: \$2,892,145.47 UNIT QUANTITY :: UNIT PRICE TOTAL :: UNIT PRICE :: \$318,367.00 :: \$498,000.00 :: \$378,938.00 = \$378,938.00 \$2,489,056.00 :: \$2,489,056.00 :: \$3,021,100.00 :: \$3,021,100.00 :: \$3,271,083.47 UNIT QUANTITY :: UNIT PRICE TOTAL :: UNIT PR