

Agenda Item: 6.

MEMORANDUM

TO: Programs, Projects and Operations Subcommittee

FROM: Martin P. Cleveland, Construction Engineer

SUBJECT: Thompson Creek Levee Improvement Project
Sanitary Sewer Relocation Bids

DATE: January 2, 2015

The Thompson Creek Levee Improvement Project is located between 66th Street and 60th Street, south of Harrison Street in La Vista, NE, as shown on the enclosed location map. The Thompson Creek Levees are being setback from the creek to allow for stable levee side slopes and ensure levee safety. The existing La Vista sanitary sewer must be removed from levee landslide levee slope and replaced at a location beyond the relocated levee footprint. The sanitary sewer will be deactivated during the sewer installation project and be removed during the levee construction project. Lamp Rynearson and Associates designed the sewer project and will administer and inspect the sewer project construction.

On December 23, 2014, the District opened bids for the installation of 1900 linear feet of 27 inch diameter vitrified clay replacement sanitary sewer. The five bids ranged from \$547,134.50 to \$694,287.00 and a bid summary is enclosed. The engineer's cost estimate for the sewer relocation project, prepared by Lamp Rynearson Associates is \$228,608.00. The apparent low bid of \$547,134.50 was submitted by TAB Construction Company. The construction bids were higher than the engineer's estimate due to an estimator's under-estimation of the cost of clay sewer pipe. Clay sewer pipe material was required by City of LaVista. Enclosed is a recommendation letter from Lamp Rynearson and Associates recommending rebidding of the project.

Lamp Rynearson and Associates staff contacted Cities of Omaha and LaVista engineering staff about potential sewer pipe material alternatives, such as plastic pipe (PVC), special admixture concrete mix RCP and thicker wall concrete pipe (RCP) in an effort to find an acceptable and lower cost alternative to the specified clay pipe. They have agreed to consider alternative pipe materials. It appears that the alternative pipe materials could result in substantial cost savings (\$50,000+). Management therefore recommends that the Subcommittee recommend to the Board that the Dec. 23 bids be rejected and the project rebid in January 2015 with several pipe material alternatives.

Management recommends that the Programs, Projects and Operations Subcommittee recommend to the Board of Directors that the General Manager be authorized to reject all of the December 23, 2014 bids for the construction of the Thompson Creek Levee Improvement Project – Sanitary Sewer Relocation and rebid the project with several alternative pipe materials.



**LAMP RYNEARSON
& ASSOCIATES**
ENGINEERS | SURVEYORS | PLANNERS

14710 W. Dodge Rd., Ste. 100,
Omaha, Nebraska 68154
[P] 402.496.2498
[F] 402.496.2730
www.LRA-Inc.com

December 30, 2014

Mr. Martin Cleveland
Papio-Missouri River Natural Resources District
8901 South 154th Street, Suite 1
Omaha, NE 68138-3621

REFERENCE: Thompson Creek Sanitary Sewer Relocation
For Papio-Missouri River NRD
LRA Job No. 0114041.01-310

Dear Mr. Cleveland:

We have reviewed the proposal of the low bidder for the above-referenced project. TAB Construction submitted the low bid in the amount of \$547,134.50. TAB's bid on this project exceeded the Engineer's Estimate due to our under-estimation of the cost of the clay pipe.

As required by the City of La Vista, we specified vitrified clay pipe on this project. After discussing the bids with the City Engineers of both La Vista and Omaha, we have been informed that the cities will now allow other pipe products. Based on this material now being allowed, we recommend that the NRD reject all bids and rebid the project with alternative pipe materials.

Please let us know if you concur with this recommendation, so that the project documents can be revised and the project rebid.

Sincerely,

LAMP, RYNEARSON & ASSOCIATES, INC.

Brett J. Wawers, P.E.
Senior Vice President

Enclosure

mm\Engineering\0114041\ADMIN\BIDPROP 141230.docx

Leaving a Legacy of Enduring Improvements to Our Communities - PURPOSE STATEMENT

ENGINEERS

SURVEYORS

PLANNERS

Thompson Creek Sanitary Sewer Relocation Project

Harrison St

Harrison St

66th

S 53rd St

Big Papio Creek

LaVista Sports Complex

Sanitary Sewer Relocation Project

Keystone Trail

Valley Rd North

Thompson Creek

© 2014 Google

Google earth

THOMPSON CREEK SANITARY SEWER RELOCATION PROJECT

BID SUMMARY

December 23, 2014 AT 2:00 P.M.

BIDDER NAME	Engineer's Estimate	General Excavating	Cedar Construction	TAB Construction
Addendums (1&2)	NA	Y	Y	Y
Bid Bond (Y or N)	NA	Y	Y	Y
TOTAL BID	\$228,608	\$612,987.00	\$694,287.00	\$547,134.50

BIDDER NAME	Thompson Construction	Valley Corp.		
Addendums (1&2)	Y	Y		
Bid Bond (Y or N)	Y	Y		
TOTAL BID	\$597,430.00	\$687,971.83		

*Management Recommendation

**Math error in bid item 30., Cedar Construction Company, total should be \$694,872.00

MC:pb file 511

THOMPSON CREEK SANITARY SEWER RELOCATION PROJECT BID SUMMARY

BID OPENING: DECEMBER 23, 2014 AT 2:00 P.M.

1		ENGINEER'S Estimate			TAB Construction		
Bid Item	Bid Item Description	Qty	Unit	Unit Price	Total	Unit Price	Bid Price (Quantity x Unit Price)
1	CLEARING AND GRUBBING – GENERAL	1	LS	\$5,000.00	\$ 5,000.00	\$24,100.00	\$ 24,100.00
2	CLEARING AND GRUBBING TREES OVER 9" to 18" DIAMETER	1	EA	\$500.00	\$ 500.00	\$350.00	\$ 350.00
3	CLEARING AND GRUBBING TREES OVER 18" TO 27" DIAMETER	1	EA	\$500.00	\$ 500.00	\$450.00	\$ 450.00
4	CLEARING AND GRUBBING TREES OVER 27" TO 36" DIAMETER	1	EA	\$500.00	\$ 500.00	\$735.00	\$ 735.00
5	CLEARING AND GRUBBING TREES OVER 36" TO 48" DIAMETER	1	EA	\$500.00	\$ 500.00	\$1,185.00	\$ 1,185.00
6	CLEARING AND GRUBBING TREES OVER 48" DIAMETER	1	EA	\$100.00	\$ 100.00	\$1,650.00	\$ 1,650.00
7	TRIM TREE BRANCH	1	LABOR-HOUR	\$100.00	\$ 100.00	\$60.00	\$ 60.00
8	TRIM TREE ROOT	1	LABOR-HOUR	\$500.00	\$ 500.00	\$60.00	\$ 60.00
9	PROTECT TREE	1	EA	\$500.00	\$ 500.00	\$120.00	\$ 120.00
10	BYPASS PUMPING	1	LS	\$25,000.00	\$ 25,000.00	\$3,900.00	\$ 3,900.00
11	REMOVE 21" TO 24" SEWER PIPE	80	LF	\$40.00	\$ 3,200.00	\$6.30	\$ 504.00
12	REMOVE 27" TO 30" SEWER PIPE	5	LF	\$60.00	\$ 300.00	\$69.00	\$ 345.00
13	REMOVE MANHOLE	1	EA	\$400.00	\$ 400.00	\$475.00	\$ 475.00
14	REMOVE UNFORESEEN UNDERGROUND OBSTRUCTIONS	100	CY	\$100.00	\$ 10,000.00	\$37.95	\$ 3,795.00
15	CONSTRUCT 6" PVC SANITARY SEWER PIPE	20	LF	\$20.00	\$ 400.00	\$31.00	\$ 620.00
16	CONSTRUCT 27" VCP SANITARY SEWER PIPE	1,930	LF	\$40.00	\$ 77,200.00	\$170.75	\$ 329,547.50
17	CONSTRUCT AGGREGATE BEDDING FOR 6" SANITARY SEWER PIPE	20	LF	\$4.00	\$ 80.00	\$4.60	\$ 92.00
18	CONSTRUCT AGGREGATE BEDDING FOR 27" VCP SEWER PIPE	1,930	LF	\$7.00	\$ 13,510.00	\$11.50	\$ 22,195.00
19	CONSTRUCT AGGREGATE BEDDING FOR TRENCH STABILIZATION	250	CY	\$30.00	\$ 7,500.00	\$37.00	\$ 9,250.00
20	CONSTRUCT FOUNDATION ROCK FOR TRENCH STABILIZATION	100	CY	\$35.00	\$ 3,500.00	\$49.00	\$ 4,900.00
21	CONSTRUCT TRENCH EXCAVATION (UNSUITABLE MATERIAL)	100	CY	\$15.00	\$ 1,500.00	\$24.00	\$ 2,400.00
22	CONSTRUCT 30" DIP SANITARY SEWER PIPE	60	LF	\$150.00	\$ 9,000.00	\$325.00	\$ 19,500.00
23	CONSTRUCT 54" I.D. SANITARY MANHOLE (7 EACH)	50	VF	\$400.00	\$ 20,000.00	\$1,215.00	\$ 60,750.00
24	CONSTRUCT 54" I.D. SANITARY MANHOLE OVER EXISTING SANITARY SEWER PIPE (2 EACH)	25	VF	\$400.00	\$ 10,000.00	\$750.00	\$ 18,750.00
25	INSTALL EXTERNAL FRAME SEAL	9	EA	\$400.00	\$ 3,600.00	\$340.00	\$ 3,060.00
26	CONSTRUCT MANHOLE RING COLLAR	9	EA	\$400.00	\$ 3,600.00	\$275.00	\$ 2,475.00
27	CONSTRUCT SANITARY SEWER MANHOLE TAP	1	EA	\$200.00	\$ 200.00	\$956.00	\$ 956.00
28	CONSTRUCT 6" PIPE PLUG	1	EA	\$75.00	\$ 75.00	\$5.00	\$ 5.00
29	CONSTRUCT 12" PIPE PLUG	1	EA	\$100.00	\$ 100.00	\$30.00	\$ 30.00
30	CONSTRUCT 27" PIPE PLUG	2	EA	\$175.00	\$ 350.00	\$245.00	\$ 490.00
31	CONSTRUCT 6" DIAMETER DROP CONNECTION	1	VF	\$50.00	\$ 50.00	\$460.00	\$ 460.00
32	REMOVE EXISTING PAVEMENT AND REPLACE WITH 8" HIGH-EARLY STRENGTH CONCRETE	105	SY	\$75.00	\$ 7,875.00	\$63.00	\$ 6,615.00
33	SAW CUT – FULL DEPTH	60	LF	\$5.00	\$ 300.00	\$4.00	\$ 240.00
34	SUBGRADE PREPARATION	165	SY	\$2.20	\$ 363.00	\$5.00	\$ 825.00
35	UNSUITABLE SUBGRADE MATERIAL	165	CY	\$5.00	\$ 825.00	\$41.00	\$ 6,765.00
36	INSTALL PERMANENT PAINT MARKING – 4" YELLOW	40	LF	\$2.00	\$ 80.00	\$4.50	\$ 180.00

37	CONSTRUCT SILT FENCE		2,000	LF		\$2.50	\$ 5,000.00	\$2.35	\$ 4,700.00
38	EXPLORATORY EXCAVATION		10	HR		\$500.00	\$ 5,000.00	\$176.00	\$ 1,760.00
39	INSTALL CONSTRUCTION ENTRANCE		1	EA		\$2,000.00	\$ 2,000.00	\$1,680.00	\$ 1,680.00
40	SEEDING - TYPE "NRD TEMPORARY"		1	AC		\$800.00	\$ 800.00	\$600.00	\$ 600.00
41	SEEDING - TYPE "NRD PERMANENT"		1	AC		\$800.00	\$ 800.00	\$1,080.00	\$ 1,080.00
42	SEEDING - TYPE "CITY OF LAVISTA PERMENENT"		1	AC		\$800.00	\$ 800.00	\$1,560.00	\$ 1,560.00
43	INSTALL MULCH		3	AC		\$1,000.00	\$ 3,000.00	\$540.00	\$ 1,620.00
44	INSTALL CONSTRUCTION SAFETY FENCE		2000	LF		\$0.50	\$ 1,000.00	\$2.85	\$ 5,700.00
45	BARRICADES		1	LS		\$3,000.00	\$ 3,000.00	\$600.00	\$ 600.00
	TOTAL BID						\$ 228,608.00		\$ 547,134.50

*** APPARENT LOW BIDDER** _____

THOMPSON CREEK SANITARY SEWER RELOCATION PROJECT BID SUMMARY

BID OPENING: DECEMBER 23, 2014 AT 2:00 P.M.

ENGINEER'S Estimate						Thompson Construction	
1							
Bid Item	Bid Item Description	Qty	Unit	Unit Price	Total	Unit Price	Bid Price (Quantity x Unit Price)
1	CLEARING AND GRUBBING - GENERAL	1	LS	\$5,000.00	\$ 5,000.00	\$15,000.00	\$ 15,000.00
2	CLEARING AND GRUBBING TREES OVER 9" TO 18" DIAMETER	1	EA	\$500.00	\$ 500.00	\$350.00	\$ 350.00
3	CLEARING AND GRUBBING TREES OVER 18" TO 27" DIAMETER	1	EA	\$500.00	\$ 500.00	\$400.00	\$ 400.00
4	CLEARING AND GRUBBING TREES OVER 27" TO 36" DIAMETER	1	EA	\$500.00	\$ 500.00	\$550.00	\$ 550.00
5	CLEARING AND GRUBBING TREES OVER 36" TO 48" DIAMETER	1	EA	\$500.00	\$ 500.00	\$700.00	\$ 700.00
6	CLEARING AND GRUBBING TREES OVER 48" DIAMETER	1	EA	\$100.00	\$ 100.00	\$750.00	\$ 750.00
7	TRIM TREE BRANCH	1	LABOR-HOUR	\$100.00	\$ 100.00	\$200.00	\$ 200.00
8	TRIM TREE ROOT	1	LABOR-HOUR	\$500.00	\$ 500.00	\$200.00	\$ 200.00
9	PROTECT TREE	1	EA	\$500.00	\$ 500.00	\$600.00	\$ 600.00
10	BYPASS PUMPING	1	LS	\$25,000.00	\$ 25,000.00	\$20,000.00	\$ 20,000.00
11	REMOVE 21" TO 24" SEWER PIPE	80	LF	\$40.00	\$ 3,200.00	\$60.00	\$ 4,800.00
12	REMOVE 27" TO 30" SEWER PIPE	5	LF	\$60.00	\$ 300.00	\$200.00	\$ 1,000.00
13	REMOVE MANHOLE	1	EA	\$400.00	\$ 400.00	\$1,000.00	\$ 1,000.00
14	REMOVE UNFORESEEN UNDERGROUND OBSTRUCTIONS	100	CY	\$100.00	\$ 10,000.00	\$50.00	\$ 5,000.00
15	CONSTRUCT 6" PVC SANITARY SEWER PIPE	20	LF	\$20.00	\$ 400.00	\$100.00	\$ 2,000.00
16	CONSTRUCT 27" VCP SANITARY SEWER PIPE	1,930	LF	\$40.00	\$ 77,200.00	\$179.00	\$ 345,470.00
17	CONSTRUCT AGGREGATE BEDDING FOR 6" SANITARY SEWER PIPE	20	LF	\$4.00	\$ 80.00	\$15.00	\$ 300.00
18	CONSTRUCT AGGREGATE BEDDING FOR 27" VCP SEWER PIPE	1,930	LF	\$7.00	\$ 13,510.00	\$20.00	\$ 38,600.00
19	CONSTRUCT AGGREGATE BEDDING FOR TRENCH STABILIZATION	250	CY	\$30.00	\$ 7,500.00	\$60.00	\$ 15,000.00
20	CONSTRUCT FOUNDATION ROCK FOR TRENCH STABILIZATION	100	CY	\$35.00	\$ 3,500.00	\$60.00	\$ 6,000.00
21	CONSTRUCT TRENCH EXCAVATION (UNSTABLE MATERIAL)	100	CY	\$15.00	\$ 1,500.00	\$50.00	\$ 5,000.00
22	CONSTRUCT 30" DIP SANITARY SEWER PIPE	60	LF	\$150.00	\$ 9,000.00	\$400.00	\$ 24,000.00
23	CONSTRUCT 54" I.D. SANITARY MANHOLE (7 EACH)	50	VF	\$400.00	\$ 20,000.00	\$700.00	\$ 35,000.00
24	CONSTRUCT 54" I.D. SANITARY MANHOLE OVER EXISTING SANITARY SEWER PIPE (2 EACH)	25	VF	\$400.00	\$ 10,000.00	\$700.00	\$ 17,500.00
25	INSTALL EXTERNAL FRAME SEAL	9	EA	\$400.00	\$ 3,600.00	\$600.00	\$ 5,400.00
26	CONSTRUCT MANHOLE RING COLLAR	9	EA	\$400.00	\$ 3,600.00	\$250.00	\$ 2,250.00
27	CONSTRUCT SANITARY SEWER MANHOLE TAP	1	EA	\$200.00	\$ 200.00	\$1,000.00	\$ 1,000.00
28	CONSTRUCT 6" PIPE PLUG	1	EA	\$75.00	\$ 75.00	\$200.00	\$ 200.00
29	CONSTRUCT 12" PIPE PLUG	1	EA	\$100.00	\$ 100.00	\$350.00	\$ 350.00
30	CONSTRUCT 27" PIPE PLUG	2	EA	\$175.00	\$ 350.00	\$500.00	\$ 1,000.00
31	CONSTRUCT 6" DIAMETER DROP CONNECTION	1	VF	\$50.00	\$ 50.00	\$650.00	\$ 650.00
32	REMOVE EXISTING PAVEMENT AND REPLACE WITH 8" HIGH-EARLY STRENGTH CONCRETE	105	SY	\$75.00	\$ 7,875.00	\$90.00	\$ 9,450.00
33	SAW CUT - FULL DEPTH	60	LF	\$5.00	\$ 300.00	\$5.00	\$ 300.00
34	SUBGRADE PREPARATION	165	SY	\$2.20	\$ 363.00	\$7.00	\$ 1,155.00
35	UNSTABLE SUBGRADE MATERIAL	165	CY	\$5.00	\$ 825.00	\$15.00	\$ 2,475.00
36	INSTALL PERMANENT PAINT MARKING - 4" YELLOW	40	LF	\$2.00	\$ 80.00	\$12.00	\$ 480.00

37	CONSTRUCT SILT FENCE		2,000	LF		\$2.50	\$ 5,000.00	\$3.00	\$ 6,000.00
38	EXPLORATORY EXCAVATION		10	HR		\$500.00	\$ 5,000.00	\$300.00	\$ 3,000.00
39	INSTALL CONSTRUCTION ENTRANCE		1	EA		\$2,000.00	\$ 2,000.00	\$2,100.00	\$ 2,100.00
40	SEEDING - TYPE "NRD TEMPORARY"		1	AC		\$800.00	\$ 800.00	\$3,000.00	\$ 3,000.00
41	SEEDING - TYPE "NRD PERMANENT"		1	AC		\$800.00	\$ 800.00	\$4,000.00	\$ 4,000.00
42	SEEDING - TYPE "CITY OF LAVISTA PERMENENT"		1	AC		\$800.00	\$ 800.00	\$4,000.00	\$ 4,000.00
43	INSTALL MULCH		3	AC		\$1,000.00	\$ 3,000.00	\$900.00	\$ 2,700.00
44	INSTALL CONSTRUCTION SAFETY FENCE		2000	LF		\$0.50	\$ 1,000.00	\$3.00	\$ 6,000.00
45	BARRICADES		1	LS		\$3,000.00	\$ 3,000.00	\$2,500.00	\$ 2,500.00
	TOTAL BID						\$ 228,608.00		\$ 597,430.00

***APPARENT LOW BIDDER** _____

THOMPSON CREEK SANITARY SEWER RELOCATION PROJECT BID SUMMARY

BID OPENING: DECEMBER 23, 2014 AT 2:00 P.M.

1		ENGINEER'S Estimate			VALLEY CORP		
Bid Item	Bid Item Description	Qty	Unit	Unit Price	Total	Unit Price	Bid Price (Quantity x Unit Price)
1	CLEARING AND GRUBBING - GENERAL	1	LS	\$5,000.00	\$ 5,000.00	\$8,056.43	\$ 8,056.43
2	CLEARING AND GRUBBING TREES OVER 9" TO 18" DIAMETER	1	EA	\$500.00	\$ 500.00	\$249.07	\$ 249.07
3	CLEARING AND GRUBBING TREES OVER 18" TO 27" DIAMETER	1	EA	\$500.00	\$ 500.00	\$344.82	\$ 344.82
4	CLEARING AND GRUBBING TREES OVER 27" TO 36" DIAMETER	1	EA	\$500.00	\$ 500.00	\$460.82	\$ 460.82
5	CLEARING AND GRUBBING TREES OVER 36" TO 48" DIAMETER	1	EA	\$500.00	\$ 500.00	\$717.06	\$ 717.06
6	CLEARING AND GRUBBING TREES OVER 48" DIAMETER	1	EA	\$100.00	\$ 100.00	\$1,229.50	\$ 1,229.50
7	TRIM TREE BRANCH	1	LABOR-HOUR	\$100.00	\$ 100.00	\$95.61	\$ 95.61
8	TRIM TREE ROOT	1	LABOR-HOUR	\$500.00	\$ 500.00	\$95.61	\$ 95.61
9	PROTECT TREE	1	EA	\$500.00	\$ 500.00	\$298.77	\$ 298.77
10	BYPASS PUMPING	1	LS	\$25,000.00	\$ 25,000.00	\$11,478.73	\$ 11,478.73
11	REMOVE 21" TO 24" SEWER PIPE	80	LF	\$40.00	\$ 3,200.00	\$30.54	\$ 2,443.20
12	REMOVE 27" TO 30" SEWER PIPE	5	LF	\$60.00	\$ 300.00	\$232.26	\$ 1,161.30
13	REMOVE MANHOLE	1	EA	\$400.00	\$ 400.00	\$574.07	\$ 574.07
14	REMOVE UNFORESEEN UNDERGROUND OBSTRUCTIONS	100	CY	\$100.00	\$ 10,000.00	\$60.00	\$ 6,000.00
15	CONSTRUCT 6" PVC SANITARY SEWER PIPE	20	LF	\$20.00	\$ 400.00	\$22.92	\$ 458.40
16	CONSTRUCT 27" VCP SANITARY SEWER PIPE	1,930	LF	\$40.00	\$ 77,200.00	\$171.09	\$ 330,203.70
17	CONSTRUCT AGGREGATE BEDDING FOR 6" SANITARY SEWER PIPE	20	LF	\$4.00	\$ 80.00	\$12.07	\$ 241.40
18	CONSTRUCT AGGREGATE BEDDING FOR 27" VCP SEWER PIPE	1,930	LF	\$7.00	\$ 13,510.00	\$38.47	\$ 74,247.10
19	CONSTRUCT AGGREGATE BEDDING FOR TRENCH STABILIZATION	250	CY	\$30.00	\$ 7,500.00	\$89.00	\$ 22,250.00
20	CONSTRUCT FOUNDATION ROCK FOR TRENCH STABILIZATION	100	CY	\$35.00	\$ 3,500.00	\$94.00	\$ 9,400.00
21	CONSTRUCT TRENCH EXCAVATION (UNSUITABLE MATERIAL)	100	CY	\$15.00	\$ 1,500.00	\$45.00	\$ 4,500.00
22	CONSTRUCT 30" DIP SANITARY SEWER PIPE	60	LF	\$150.00	\$ 9,000.00	\$327.50	\$ 19,650.00
23	CONSTRUCT 54" I.D. SANITARY MANHOLE (7 EACH)	50	VF	\$400.00	\$ 20,000.00	\$1,747.94	\$ 87,397.00
24	CONSTRUCT 54" I.D. SANITARY MANHOLE OVER EXISTING SANITARY SEWER PIPE (2 EACH)	25	VF	\$400.00	\$ 10,000.00	\$1,291.51	\$ 32,287.75
25	INSTALL EXTERNAL FRAME SEAL	9	EA	\$400.00	\$ 3,600.00	\$537.94	\$ 4,841.46
26	CONSTRUCT MANHOLE RING COLLAR	9	EA	\$400.00	\$ 3,600.00	\$353.10	\$ 3,177.90
27	CONSTRUCT SANITARY SEWER MANHOLE TAP	1	EA	\$200.00	\$ 200.00	\$591.47	\$ 591.47
28	CONSTRUCT 6" PIPE PLUG	1	EA	\$75.00	\$ 75.00	\$359.82	\$ 359.82
29	CONSTRUCT 12" PIPE PLUG	1	EA	\$100.00	\$ 100.00	\$462.60	\$ 462.60
30	CONSTRUCT 27" PIPE PLUG	2	EA	\$175.00	\$ 350.00	\$618.56	\$ 1,237.12
31	CONSTRUCT 6" DIAMETER DROP CONNECTION	1	VF	\$50.00	\$ 50.00	\$1,068.23	\$ 1,068.23
32	REMOVE EXISTING PAVEMENT AND REPLACE WITH 8" HIGH-EARLY STRENGTH CONCRETE	105	SY	\$75.00	\$ 7,875.00	\$78.38	\$ 8,229.90
33	SAW CUT - FULL DEPTH	60	LF	\$5.00	\$ 300.00	\$4.18	\$ 250.80
34	SUBGRADE PREPARATION	165	SY	\$2.20	\$ 363.00	\$15.00	\$ 2,475.00
35	UNSUITABLE SUBGRADE MATERIAL	165	CY	\$5.00	\$ 825.00	\$90.00	\$ 14,850.00
36	INSTALL PERMANENT PAINT MARKING - 4" YELLOW	40	LF	\$2.00	\$ 80.00	\$17.93	\$ 717.20

THOMPSON CREEK SANITARY SEWER RELOCATION PROJECT BID SUMMARY

BID OPENING: DECEMBER 23, 2014 AT 2:00 P.M.

ENGINEER'S Estimate							General Excavating	
Bid Item	Bid Item Description	Qty	Unit	Unit Price	Total	Unit Price	Bid Price (Quantity x Unit Price)	
1	CLEARING AND GRUBBING – GENERAL	1	LS	\$5,000.00	\$ 5,000.00	\$4,825.00	\$ 4,825.00	
2	CLEARING AND GRUBBING TREES OVER 9" TO 18" DIAMETER	1	EA	\$500.00	\$ 500.00	\$605.00	\$ 605.00	
3	CLEARING AND GRUBBING TREES OVER 18" TO 27" DIAMETER	1	EA	\$500.00	\$ 500.00	\$630.00	\$ 630.00	
4	CLEARING AND GRUBBING TREES OVER 27" TO 36" DIAMETER	1	EA	\$500.00	\$ 500.00	\$728.00	\$ 728.00	
5	CLEARING AND GRUBBING TREES OVER 36" TO 48" DIAMETER	1	EA	\$500.00	\$ 500.00	\$790.00	\$ 790.00	
6	CLEARING AND GRUBBING TREES OVER 48" DIAMETER	1	EA	\$100.00	\$ 100.00	\$1,334.00	\$ 1,334.00	
7	TRIM TREE BRANCH	1	LABOR-HOUR	\$100.00	\$ 100.00	\$360.00	\$ 360.00	
8	TRIM TREE ROOT	1	LABOR-HOUR	\$500.00	\$ 500.00	\$360.00	\$ 360.00	
9	PROTECT TREE	1	EA	\$500.00	\$ 500.00	\$480.00	\$ 480.00	
10	BYPASS PUMPING	1	LS	\$25,000.00	\$ 25,000.00	\$18,700.00	\$ 18,700.00	
11	REMOVE 21" TO 24" SEWER PIPE	80	LF	\$40.00	\$ 3,200.00	\$32.00	\$ 2,560.00	
12	REMOVE 27" TO 30" SEWER PIPE	5	LF	\$60.00	\$ 300.00	\$180.00	\$ 900.00	
13	REMOVE MANHOLE	1	EA	\$400.00	\$ 400.00	\$1,100.00	\$ 1,100.00	
14	REMOVE UNFORESEEN UNDERGROUND OBSTRUCTIONS	100	CY	\$100.00	\$ 10,000.00	\$58.00	\$ 5,800.00	
15	CONSTRUCT 6" PVC SANITARY SEWER PIPE	20	LF	\$20.00	\$ 400.00	\$48.00	\$ 960.00	
16	CONSTRUCT 27" VCP SANITARY SEWER PIPE	1,930	LF	\$40.00	\$ 77,200.00	\$177.00	\$ 341,610.00	
17	CONSTRUCT AGGREGATE BEDDING FOR 6" SANITARY SEWER PIPE	20	LF	\$4.00	\$ 80.00	\$24.00	\$ 480.00	
18	CONSTRUCT AGGREGATE BEDDING FOR 27" VCP SEWER PIPE	1,930	LF	\$7.00	\$ 13,510.00	\$27.00	\$ 52,110.00	
19	CONSTRUCT AGGREGATE BEDDING FOR TRENCH STABILIZATION	250	CY	\$30.00	\$ 7,500.00	\$34.00	\$ 8,500.00	
20	CONSTRUCT FOUNDATION ROCK FOR TRENCH STABILIZATION	100	CY	\$35.00	\$ 3,500.00	\$59.00	\$ 5,900.00	
21	CONSTRUCT TRENCH EXCAVATION (UNSUITABLE MATERIAL)	100	CY	\$15.00	\$ 1,500.00	\$40.00	\$ 4,000.00	
22	CONSTRUCT 30" DIP SANITARY SEWER PIPE	60	LF	\$150.00	\$ 9,000.00	\$335.00	\$ 20,100.00	
23	CONSTRUCT 54" I.D. SANITARY MANHOLE (7 EACH)	50	VF	\$400.00	\$ 20,000.00	\$630.00	\$ 31,500.00	
24	CONSTRUCT 54" I.D. SANITARY MANHOLE OVER EXISTING SANITARY SEWER PIPE (2 EACH)	25	VF	\$400.00	\$ 10,000.00	\$829.00	\$ 20,725.00	
25	INSTALL EXTERNAL FRAME SEAL	9	EA	\$400.00	\$ 3,600.00	\$610.00	\$ 5,490.00	
26	CONSTRUCT MANHOLE RING COLLAR	9	EA	\$400.00	\$ 3,600.00	\$370.00	\$ 3,330.00	
27	CONSTRUCT SANITARY SEWER MANHOLE TAP	1	EA	\$200.00	\$ 200.00	\$2,000.00	\$ 2,000.00	
28	CONSTRUCT 6" PIPE PLUG	1	EA	\$75.00	\$ 75.00	\$55.00	\$ 55.00	
29	CONSTRUCT 12" PIPE PLUG	1	EA	\$100.00	\$ 100.00	\$150.00	\$ 150.00	
30	CONSTRUCT 27" PIPE PLUG	2	EA	\$175.00	\$ 350.00	\$700.00	\$ 1,400.00	
31	CONSTRUCT 6" DIAMETER DROP CONNECTION	1	VF	\$50.00	\$ 50.00	\$1,300.00	\$ 1,300.00	
32	REMOVE EXISTING PAVEMENT AND REPLACE WITH 8" HIGH-EARLY STRENGTH CONCRETE	105	SY	\$75.00	\$ 7,875.00	\$105.00	\$ 11,025.00	
33	SAW CUT – FULL DEPTH	60	LF	\$5.00	\$ 300.00	\$10.00	\$ 600.00	
34	SUBGRADE PREPARATION	165	SY	\$2.20	\$ 363.00	\$11.00	\$ 1,815.00	
35	UNSUITABLE SUBGRADE MATERIAL	165	CY	\$5.00	\$ 825.00	\$29.00	\$ 4,785.00	
36	INSTALL PERMANENT PAINT MARKING – 4" YELLOW	40	LF	\$2.00	\$ 80.00	\$22.00	\$ 880.00	

THOMPSON CREEK SANITARY SEWER RELOCATION PROJECT BID SUMMARY

BID OPENING: DECEMBER 23, 2014 AT 2:00 P.M.

ENGINEER'S Estimate						Cedar Construction Co.	
1							
Bid Item	Bid Item Description	Qty	Unit	Unit Price	Total	Unit Price	Bid Price (Quantity x Unit Price)
1	CLEARING AND GRUBBING – GENERAL	1	LS	\$5,000.00	\$ 5,000.00	\$2,500.00	\$ 2,500.00
2	CLEARING AND GRUBBING TREES OVER 9" TO 18" DIAMETER	1	EA	\$500.00	\$ 500.00	\$350.00	\$ 350.00
3	CLEARING AND GRUBBING TREES OVER 18" TO 27" DIAMETER	1	EA	\$500.00	\$ 500.00	\$400.00	\$ 400.00
4	CLEARING AND GRUBBING TREES OVER 27" TO 36" DIAMETER	1	EA	\$500.00	\$ 500.00	\$650.00	\$ 650.00
5	CLEARING AND GRUBBING TREES OVER 36" TO 48" DIAMETER	1	EA	\$500.00	\$ 500.00	\$985.00	\$ 985.00
6	CLEARING AND GRUBBING TREES OVER 48" DIAMETER	1	EA	\$100.00	\$ 100.00	\$1,265.00	\$ 1,265.00
7	TRIM TREE BRANCH	1	LABOR-HOUR	\$100.00	\$ 100.00	\$135.00	\$ 135.00
8	TRIM TREE ROOT	1	LABOR-HOUR	\$500.00	\$ 500.00	\$135.00	\$ 135.00
9	PROTECT TREE	1	EA	\$500.00	\$ 500.00	\$650.00	\$ 650.00
10	BYPASS PUMPING	1	LS	\$25,000.00	\$ 25,000.00	\$15,650.00	\$ 15,650.00
11	REMOVE 21" TO 24" SEWER PIPE	80	LF	\$40.00	\$ 3,200.00	\$35.00	\$ 2,800.00
12	REMOVE 27" TO 30" SEWER PIPE	5	LF	\$60.00	\$ 300.00	\$45.00	\$ 225.00
13	REMOVE MANHOLE	1	EA	\$400.00	\$ 400.00	\$950.00	\$ 950.00
14	REMOVE UNFORESEEN UNDERGROUND OBSTRUCTIONS	100	CY	\$100.00	\$ 10,000.00	\$15.00	\$ 1,500.00
15	CONSTRUCT 6" PVC SANITARY SEWER PIPE	20	LF	\$20.00	\$ 400.00	\$48.00	\$ 960.00
16	CONSTRUCT 27" VCP SANITARY SEWER PIPE	1,930	LF	\$40.00	\$ 77,200.00	\$206.40	\$ 398,352.00
17	CONSTRUCT AGGREGATE BEDDING FOR 6" SANITARY SEWER PIPE	20	LF	\$4.00	\$ 80.00	\$6.00	\$ 120.00
18	CONSTRUCT AGGREGATE BEDDING FOR 27" VCP SEWER PIPE	1,930	LF	\$7.00	\$ 13,510.00	\$18.00	\$ 34,740.00
19	CONSTRUCT AGGREGATE BEDDING FOR TRENCH STABILIZATION	250	CY	\$30.00	\$ 7,500.00	\$32.00	\$ 8,000.00
20	CONSTRUCT FOUNDATION ROCK FOR TRENCH STABILIZATION	100	CY	\$35.00	\$ 3,500.00	\$37.00	\$ 3,700.00
21	CONSTRUCT TRENCH EXCAVATION (UNSTABLE MATERIAL)	100	CY	\$15.00	\$ 1,500.00	\$29.00	\$ 2,900.00
22	CONSTRUCT 30" DIP SANITARY SEWER PIPE	60	LF	\$150.00	\$ 9,000.00	\$435.00	\$ 26,100.00
23	CONSTRUCT 54" I.D. SANITARY MANHOLE (7 EACH)	50	VF	\$400.00	\$ 20,000.00	\$1,430.00	\$ 71,500.00
24	CONSTRUCT 54" I.D. SANITARY MANHOLE OVER EXISTING SANITARY SEWER PIPE (2 EACH)	25	VF	\$400.00	\$ 10,000.00	\$1,650.00	\$ 41,250.00
25	INSTALL EXTERNAL FRAME SEAL	9	EA	\$400.00	\$ 3,600.00	\$450.00	\$ 4,050.00
26	CONSTRUCT MANHOLE RING COLLAR	9	EA	\$400.00	\$ 3,600.00	\$345.00	\$ 3,105.00
27	CONSTRUCT SANITARY SEWER MANHOLE TAP	1	EA	\$200.00	\$ 200.00	\$3,500.00	\$ 3,500.00
28	CONSTRUCT 6" PIPE PLUG	1	EA	\$75.00	\$ 75.00	\$125.00	\$ 125.00
29	CONSTRUCT 12" PIPE PLUG	1	EA	\$100.00	\$ 100.00	\$165.00	\$ 165.00
30	CONSTRUCT 27" PIPE PLUG	2	EA	\$175.00	\$ 350.00	\$585.00	\$ 1,170.00
31	CONSTRUCT 6" DIAMETER DROP CONNECTION	1	VF	\$50.00	\$ 50.00	\$450.00	\$ 450.00
32	REMOVE EXISTING PAVEMENT AND REPLACE WITH 8" HIGH-EARLY STRENGTH CONCRETE	105	SY	\$75.00	\$ 7,875.00	\$125.00	\$ 13,125.00
33	SAW CUT – FULL DEPTH	60	LF	\$5.00	\$ 300.00	\$9.00	\$ 540.00
34	SUBGRADE PREPARATION	165	SY	\$2.20	\$ 363.00	\$7.00	\$ 1,155.00
35	UNSTABLE SUBGRADE MATERIAL	165	CY	\$5.00	\$ 825.00	\$19.00	\$ 3,135.00
36	INSTALL PERMANENT PAINT MARKING – 4" YELLOW	40	LF	\$2.00	\$ 80.00	\$8.00	\$ 320.00

37	CONSTRUCT SILT FENCE		2,000	LF		\$2.50	\$	5,000.00	\$4.00	\$	8,000.00
38	EXPLORATORY EXCAVATION		10	HR		\$500.00	\$	5,000.00	\$485.00	\$	4,850.00
39	INSTALL CONSTRUCTION ENTRANCE		1	E/A		\$2,000.00	\$	2,000.00	\$2,130.00	\$	2,130.00
40	SEEDING - TYPE "NRD TEMPORARY"		1	AC		\$800.00	\$	800.00	\$3,850.00	\$	3,850.00
41	SEEDING - TYPE "NRD PERMANENT"		1	AC		\$800.00	\$	800.00	\$6,250.00	\$	6,250.00
42	SEEDING - TYPE "CITY OF LAVISTA PERMENENT"		1	AC		\$800.00	\$	800.00	\$7,650.00	\$	7,650.00
43	INSTALL MULCH		3	AC		\$1,000.00	\$	3,000.00	\$995.00	\$	2,985.00
44	INSTALL CONSTRUCTION SAFETY FENCE		2000	LF		\$0.50	\$	1,000.00	\$5.00	\$	10,000.00
45	BARRICADES		1	LS		\$3,000.00	\$	3,000.00	\$2,500.00	\$	2,500.00
	TOTAL BID							\$ 228,608.00		\$	694,872.00

OW BIDDER _____ **Bid Total was \$694,287.00, due to a math error in bid item 30, actual bid total should be \$694,872.00