

March 2, 2004

Chris Stewart
Department of Utilities
720 W. 3rd Street
Lawrence, KS 66044

Re: 2003/2004 Waterline Improvements - Phase I
City Project No. 1WL-903
03-280L

Dear Chris:

The bid letting for the 2003/2004 Waterline Improvements - Phase I was conducted February 24, 2004. Five (5) bids were received which ranged from \$311,045.20 to \$206,097.20. The engineer's estimate was \$334,110.50. LaForge Construction Corporation submitted the low bid.

LaForge Construction Corporation has adequately demonstrated experience in municipal waterline construction with similar scope to the Lawrence Waterline Phase I Improvements. Their references include engineers and municipal clients.

LaForge Construction has not demonstrated past experience with 5000 Lineal Feet of installation experience (by directional bore) specifically with 8 inch or greater diameter waterline, as required in the specifications. However, LaForge Construction's references include more than 5,000 Lineal Feet of 6 and 8 inch diameter waterline installed by directional bore. We cannot quantify the difference between this 6 and 8 inch diameter waterline installation experience to recommend rejection of their bid. We feel they are qualified to complete this work.

We recommend award of the contract to LaForge Construction Corporation in the amount of \$206,097.20. Please find attached the bid tabulations for this project. If you have any questions or need additional information, please call.

Sincerely,

BG CONSULTANTS, INC.



Brian P. Kingsley, P.E.
Project Engineer

BPK/ts



Also

Emporia, Ks. • Manhattan, Ks. • Hutchinson, Ks.

2003/2004 Waterline Improvements - Phase 1
 Bid Tabulations
 City of Lawrence, Kansas
 City Project No. 1WL-903

Tabulated By: B. Kingsley
 03-280L

Item	Description	Qty	Unit	Engineer's Estimate	La Forge Const. Corp	Rose-Lan Contractors, Inc.	Nowak Const. Co., Inc.	Wildcat Const. Company, Inc.	Redford Construction
1.	8" Restrained Joint PVC Waterline (In Place)(by Directional Bore)	2712	L.F.	\$ 60.00	\$ 35.00	\$ 52.81	\$ 54.60	\$ 45.00	\$ 49.00
2.	8" Ductile Iron Waterline (In Place)	48	L.F.	\$ 65.00	\$ 40.00	\$ 122.51	\$ 70.00	\$ 100.00	\$ 37.50
3.	6" PVC Waterline (In Place)	6	L.F.	\$ 50.00	\$ 26.00	\$ 78.22	\$ 44.00	\$ 30.00	\$ 33.00
4.	Uncased Bore	36	L.F.	\$ 90.00	\$ 50.00	\$ 204.45	\$ 45.00	\$ 150.00	\$ 53.75
5.	8" Tapping Valve	4	Each	\$ 1,950.00	\$ 1,350.00	\$ 1,119.74	\$ 1,575.00	\$ 1,800.00	\$ 1,775.00
6.	8" Gate Valve	7	Each	\$ 800.00	\$ 850.00	\$ 729.32	\$ 770.00	\$ 1,400.00	\$ 550.00
7.	6" Tapping Valve	1	Each	\$ 1,600.00	\$ 1,025.00	\$ 946.52	\$ 1,400.00	\$ 1,300.00	\$ 1,520.00
8.	Std. Fire Hydrant Setting	3	Each	\$ 2,000.00	\$ 2,200.00	\$ 2,485.46	\$ 3,000.00	\$ 3,000.00	\$ 1,790.00
9.	Remove Existing Fire Hydrant	2	Each	\$ 500.00	\$ 400.00	\$ 444.07	\$ 220.00	\$ 1,000.00	\$ 285.00
10.	Connect to Existing Waterline	7	Each	\$ 1,100.00	\$ 1,360.00	\$ 1,459.78	\$ 1,520.00	\$ 1,000.00	\$ 975.00
11.	Disconnect Existing Waterline	8	Each	\$ 800.00	\$ 270.00	\$ 502.52	\$ 740.00	\$ 1,000.00	\$ 495.00
12.	3/4" Short Service	39	Each	\$ 500.00	\$ 220.00	\$ 519.23	\$ 350.00	\$ 450.00	\$ 775.00
13.	3/4" Long Service	39	Each	\$ 700.00	\$ 370.00	\$ 1,020.82	\$ 720.00	\$ 800.00	\$ 750.00
14.	1" Short Service	1	Each	\$ 600.00	\$ 350.00	\$ 718.99	\$ 375.00	\$ 700.00	\$ 775.00
15.	Connect to Existing Water Service	79	Each	\$ 350.00	\$ 115.00	\$ 125.97	\$ 110.00	\$ 100.00	\$ 90.00
16.	New Meter Tile	22	Each	\$ 150.00	\$ 95.00	\$ 249.25	\$ 44.00	\$ 150.00	\$ 290.00
17.	New Meter Setter	27	Each	\$ 250.00	\$ 76.00	\$ 261.62	\$ 85.00	\$ 35.00	\$ 185.00
18.	Relocate Existing Meter Pit	22	Each	\$ 300.00	\$ 130.00	\$ 444.06	\$ 510.00	\$ 150.00	\$ 141.00
19.	Remove and Replace Asphalt Surfacing	26.0	S.Y.	\$ 100.00	\$ 105.00	\$ 182.51	\$ 135.00	\$ 160.00	\$ 143.00
20.	Remove and Replace Brick Surfacing	23.4	S.Y.	\$ 100.00	\$ 64.00	\$ 94.58	\$ 50.00	\$ 180.00	\$ 71.00
21.	Remove and Replace Curb and Gutter	49	L.F.	\$ 40.00	\$ 24.00	\$ 32.55	\$ 18.00	\$ 50.00	\$ 21.00
22.	Remove and Replace Concrete Driveway	6.8	S.Y.	\$ 150.00	\$ 75.00	\$ 74.66	\$ 40.00	\$ 100.00	\$ 110.00
23.	Remove and Replace Gravel Driveway	5.6	S.Y.	\$ 35.00	\$ 30.00	\$ 18.06	\$ 35.00	\$ 35.00	\$ 47.00
24.	Remove and Replace Concrete Sidewalk	3.7	S.Y.	\$ 85.00	\$ 48.00	\$ 92.30	\$ 30.00	\$ 300.00	\$ 73.00
25.	Remove and Replace Handicap Ramp	4	Each	\$ 1,000.00	\$ 1,210.00	\$ 1,440.76	\$ 980.00	\$ 1,000.00	\$ 1,320.00
26.	Construction Staking	1	L.S.	\$ 3,500.00	\$ 2,400.00	\$ 1,979.64	\$ 1,600.00	\$ 2,500.00	\$ 2,000.00
27.	Seeding, Fertilizing and Mulching	1	L.S.	\$ 4,000.00	\$ 6,500.00	\$ 3,848.06	\$ 1,000.00	\$ 10,000.00	\$ 3,500.00
28.	Mobilization	1	L.S.	\$ 7,000.00	\$ 6,000.00	\$ 5,000.11	\$ 4,000.00	\$ 23,000.00	\$ 6,525.00
29.	Traffic Control	1	L.S.	\$ 6,000.00	\$ 5,400.00	\$ 1,855.92	\$ 3,100.00	\$ 5,000.00	\$ 2,630.00
30.	Storm Water Pollution Prevention	1	L.S.	\$ 4,000.00	\$ 5,000.00	\$ 1.00	\$ 1,000.00	\$ 1,000.00	\$ 2,250.30
TOTALS				\$ 334,110.50	\$206,097.20	\$311,045.20	\$278,448.20	\$299,923.00	\$ 277,728.00

March 2, 2004

Chris Stewart
Department of Utilities
720 W. 3rd Street
Lawrence, KS 66044

Re: 2003/2004 Waterline Improvements - Phase II
City Project No. 1WL-903
03-280L

Dear Chris:

The bid letting for the 2003/2004 Waterline Improvements - Phase II was conducted February 24, 2004. Four (4) bids were received which ranged from \$721,376.40 to \$563,939.10. The engineer's estimate was \$623,442.50. Emcon, Inc. submitted the low bid.

Emcon, Inc. is an experienced waterline installation contractor with past projects in the City of Lawrence. Their references include engineers, municipal clients and industry suppliers. We feel they are qualified to complete this work.

We recommend award of the contract to Emcon, Inc. in the amount of \$563,939.10. Please find attached the bid tabulations for this project. If you have any questions or need additional information, please call.

Sincerely,

BG CONSULTANTS, INC.



Brian P. Kingsley, P.E.
Project Engineer

BPK/ts



Also

Emporia, Ks. • Manhattan, Ks. • Hutchinson, Ks.

2003/2004 Waterline Improvements - Phase 2

Bid Tabulations
City of Lawrence, Kansas
City Project No. 1WL-903

Tabulated By: B. Kingsley
03-280L

Item	Description	Qty	Unit	Unit Price	Engineer's	Emcon	Nowak	Redford	Rose-Lan
					Estimate	Inc.	Construction	Construction	Contractors
1.	12" Ductile Iron Waterline (In Place)	3482	L.F.	\$ 75.00	\$ 75.00	\$ 43.00	\$ 75.50	\$ 104.00	\$ 62.51
2.	8" PVC Waterline (In Place)	58	L.F.	\$ 55.00	\$ 55.00	\$ 35.00	\$ 61.50	\$ 80.00	\$ 70.82
3.	6" PVC Waterline (In Place)	89	L.F.	\$ 45.00	\$ 45.00	\$ 30.00	\$ 50.00	\$ 75.00	\$ 83.69
4.	4" PVC Waterline (In Place)	56	L.F.	\$ 30.00	\$ 30.00	\$ 28.00	\$ 43.00	\$ 70.00	\$ 68.60
5.	Uncased Bore (Auger Bore Only)	484	L.F.	\$ 65.00	\$ 65.00	\$ 118.00	\$ 91.00	\$ 150.00	\$ 129.93
6.	12" Tapping Valve	3	Each	\$ 4,000.00	\$ 4,000.00	\$ 5,440.00	\$ 2,000.00	\$ 5,000.00	\$ 3,949.71
7.	12" Gate Valve	11	Each	\$ 1,250.00	\$ 1,250.00	\$ 1,180.00	\$ 1,350.00	\$ 1,000.00	\$ 1,486.36
8.	10" Tapping Valve	1	Each	\$ 3,000.00	\$ 3,000.00	\$ 3,840.00	\$ 1,600.00	\$ 2,500.00	\$ 1,413.14
9.	8" Tapping Valve	3	Each	\$ 1,600.00	\$ 1,600.00	\$ 2,890.00	\$ 1,150.00	\$ 2,200.00	\$ 1,118.89
10.	8" Gate Valve	1	Each	\$ 1,000.00	\$ 1,000.00	\$ 614.00	\$ 800.00	\$ 800.00	\$ 861.09
11.	6" Gate Valve	2	Each	\$ 600.00	\$ 600.00	\$ 473.00	\$ 630.00	\$ 600.00	\$ 604.09
12.	4" Gate Valve	3	Each	\$ 500.00	\$ 500.00	\$ 357.00	\$ 465.00	\$ 500.00	\$ 446.00
13.	Std. Fire Hydrant Setting	4	Each	\$ 2,000.00	\$ 2,000.00	\$ 1,990.00	\$ 2,300.00	\$ 2,500.00	\$ 3,226.77
14.	Remove Existing Fire Hydrant	4	Each	\$ 300.00	\$ 300.00	\$ 310.00	\$ 133.00	\$ 250.00	\$ 720.75
15.	Connect to Existing Waterline	17	Each	\$ 1,000.00	\$ 1,000.00	\$ 1,540.00	\$ 1,960.00	\$ 850.00	\$ 1,140.99
16.	Disconnect Existing Waterline	14	Each	\$ 750.00	\$ 750.00	\$ 619.00	\$ 860.00	\$ 650.00	\$ 1,328.80
17.	3/4" Short Service Line	5	Each	\$ 400.00	\$ 400.00	\$ 231.00	\$ 460.00	\$ 300.00	\$ 1,195.23
18.	3/4" Long Service Line	11	Each	\$ 650.00	\$ 650.00	\$ 512.00	\$ 590.00	\$ 600.00	\$ 1,620.76
19.	1" Short Service Line	6	Each	\$ 450.00	\$ 450.00	\$ 244.00	\$ 300.00	\$ 400.00	\$ 1,208.16
20.	1" Long Service Line	2	Each	\$ 750.00	\$ 750.00	\$ 676.00	\$ 790.00	\$ 650.00	\$ 1,655.08
21.	1 1/2" Short Service Line	4	Each	\$ 750.00	\$ 750.00	\$ 803.00	\$ 670.00	\$ 500.00	\$ 1,258.23
22.	2" Short Service Line	1	Each	\$ 1,000.00	\$ 1,000.00	\$ 1,490.00	\$ 770.00	\$ 600.00	\$ 1,694.03
23.	2" Long Service Line	4	Each	\$ 1,500.00	\$ 1,500.00	\$ 1,700.00	\$ 1,450.00	\$ 750.00	\$ 1,925.52
24.	3" Short Service Line	1	Each	\$ 1,600.00	\$ 1,600.00	\$ 4,230.00	\$ 1,200.00	\$ 700.00	\$ 1,441.50
25.	Connect to Existing Water Service	34	Each	\$ 350.00	\$ 350.00	\$ 85.00	\$ 210.00	\$ 500.00	\$ 195.13
26.	New Meter Tile	3	Each	\$ 400.00	\$ 400.00	\$ 167.00	\$ 60.00	\$ 100.00	\$ 387.58
27.	New Meter Setter	2	Each	\$ 300.00	\$ 300.00	\$ 322.00	\$ 100.00	\$ 200.00	\$ 378.92
28.	New Ring/Lid	3	Each	\$ 250.00	\$ 250.00	\$ 101.00	\$ 67.00	\$ 400.00	\$ 228.40
29.	3" Meter Pit	1	Each	\$ 10,000.00	\$ 10,000.00	\$ 8,580.00	\$ 9,500.00	\$ 6,000.00	\$ 6,323.74
30.	Remove and Replace Asphalt Surfacing	1535.3	S.Y.	\$ 85.00	\$ 85.00	\$ 105.00	\$ 54.30	\$ 48.00	\$ 75.61
31.	Remove and Replace Concrete Street Surfacing (A.E.)(Reinforced)	141.8	S.Y.	\$ 90.00	\$ 90.00	\$ 65.00	\$ 42.00	\$ 45.00	\$ 56.66
32.	Remove and Replace Curb and Gutter (A.E.)	107	L.F.	\$ 25.00	\$ 25.00	\$ 41.00	\$ 18.00	\$ 20.00	\$ 34.03
33.	Remove and Replace 6" (min.) Concrete Driveway (A.E.)(Reinforced)	2.8	S.Y.	\$ 100.00	\$ 100.00	\$ 53.00	\$ 37.00	\$ 45.00	\$ 170.68
34.	Remove and Replace Brick Sidewalk	3.2	S.Y.	\$ 100.00	\$ 100.00	\$ 95.00	\$ 55.00	\$ 50.00	\$ 146.00
35.	Remove and Replace 4" Concrete Sidewalk (A.E.)	36.4	S.Y.	\$ 45.00	\$ 45.00	\$ 53.00	\$ 30.00	\$ 30.00	\$ 50.29
36.	Remove and Replace Handicap Ramp	1	Each	\$ 1,500.00	\$ 1,500.00	\$ 1,490.00	\$ 1,000.00	\$ 1,500.00	\$ 1,398.01
37.	Remove and Replace Traffic Signal Loop	2	Each	\$ 2,500.00	\$ 2,500.00	\$ 1,670.00	\$ 1,360.00	\$ 2,000.00	\$ 1,669.07
38.	Remove and Replace Pavement Markings (PTP)	1	L.S.	\$ 1,500.00	\$ 1,500.00	\$ 3,800.00	\$ 3,100.00	\$ 1,500.00	\$ 3,798.06
39.	Construction Staking	1	L.S.	\$ 4,000.00	\$ 4,000.00	\$ 3,710.00	\$ 3,800.00	\$ 5,000.00	\$ 4,698.12
40.	Seeding, Fertilizing and Mulching	1	L.S.	\$ 500.00	\$ 500.00	\$ 1,120.00	\$ 1,000.00	\$ 1,500.00	\$ 1,236.35
41.	Mobilization	1	L.S.	\$ 10,000.00	\$ 10,000.00	\$ 17,140.00	\$ 2,000.00	\$ 30,000.00	\$ 5,765.95
42.	Traffic Control	1	L.S.	\$ 15,000.00	\$ 15,000.00	\$ 8,400.00	\$ 8,100.00	\$ 20,000.00	\$ 8,654.42
43.	Storm Water Pollution Prevention	1	L.S.	\$ 5,000.00	\$ 5,000.00	\$ 1,860.00	\$ 2,000.00	\$ 1,000.00	\$ 1.00
TOTAL					\$615,510.50	\$ 557,898.10	\$557,987.99	\$714,206.40	\$611,333.23
Add Alternate No. 1									
1.	1" Short Service Line	2	Each	\$ 450.00	\$ 450.00	\$ 244.00	\$ 400.00	\$ 400.00	\$ 1,208.16
2.	1" Long Service Line	1	Each	\$ 600.00	\$ 600.00	\$ 676.00	\$ 4,030.00	\$ 900.00	\$ 1,655.09
3.	New Meter Tile	3	Each	\$ 400.00	\$ 400.00	\$ 167.00	\$ 49.00	\$ 100.00	\$ 387.58
4.	New Meter Setter	3	Each	\$ 300.00	\$ 300.00	\$ 322.00	\$ 85.00	\$ 200.00	\$ 378.92
5.	New Ring/Lid	3	Each	\$ 250.00	\$ 250.00	\$ 101.00	\$ 67.00	\$ 400.00	\$ 228.40
6.	No. 2 Eclipse Hydrant	3	Each	\$ 1,000.00	\$ 1,000.00	\$ 829.00	\$ 580.00	\$ 1,000.00	\$ 1,725.25
7.	Remove and Replace Asphalt Surfacing	2.8	S.Y.	\$ 90.00	\$ 90.00	\$ 75.00	\$ 54.00	\$ 50.00	\$ 128.85
8.	Remove and Replace Curb and Gutter (A.E.)	5	L.F.	\$ 25.00	\$ 25.00	\$ 41.00	\$ 18.00	\$ 20.00	\$ 89.32
9.	Remove and Replace Brick Sidewalk	1.6	S.Y.	\$ 100.00	\$ 100.00	\$ 95.00	\$ 55.00	\$ 50.00	\$ 258.61
10.	Remove and Replace 4" Concrete Sidewalk (A.E.)	1.0	S.Y.	\$ 45.00	\$ 45.00	\$ 53.00	\$ 30.00	\$ 50.00	\$ 392.64
TOTAL					\$ 7,932.00	\$ 6,041.00	\$7,532.20	\$7,170.00	\$13,845.64
GRAND TOTAL					\$ 623,442.50	\$ 563,939.10	\$565,520.19	\$721,376.40	\$625,178.87