

CITY OF GALENA, ILLINOIS

101 Green Street, PO Box 310, Galena, Illinois 61036



MEMORANDUM

TO: Honorable Mayor Renner and City Council

FROM: Andy Lewis - City Engineer *A Lewis*

DATE: 18 January 2018

RE: Gear Street Reconstruction Project
Approval of Construction Contract

After many years of planning and design, bids for this project were received at city hall on 16 January and are summarized below and detailed on the attached tabulation. Arithmetic checks confirmed all totals were accurate.

Contractor	Civil Constructors	Fischer Excavating	Louie's Trenching Service
Base Bid \$	2,472,556.30	2,359,685.47	2,393,877.44

Because this project is largely funded by the State of Illinois, contract requirements are different to those typically administered by the city. The main differences being compliance with State Training and Apprenticeship Program and an Affidavit of Illinois Business Office. Unfortunately, Fischer Excavating and Civil Constructors did not submit an Affidavit of Illinois Business Office, although they both have their main offices in Illinois. I discussed this omission with IDOT and the city attorney and they both confirmed this is a technicality and can be waived by the city council. A completed affidavit was submitted by Fischer Excavating on 17 January.

Regarding contract funding, IDOT has agreed to allocate \$2,329,682 towards a total estimated project cost of \$2,494,682. The city agreed to fund the difference of \$165,000 in an agreement dated 16 June 2017. The total amount includes \$29,782 for preliminary engineering and \$89,566 for construction engineering, which will be completed by our consultant WHKS Engineers.

Based on the above details the base bid from Fischer Excavating for \$2,359,685.47 represents the best value option.

BID TABULATION

Item No.	Items	Unit	Quantity	Fischer Excavating		Louie's Trenching		Civil Contractors	
				Unit Price	Total	Unit Price	Total	Unit Price	Total
1	EARTH EXCAVATION	CU YD	15,100	\$15.10	\$228,010.00	12	181,200.00	15	226,500.00
2	ROCK EXCAVATION	CU YD	534	\$73.26	\$39,120.84	0.01	5.34	60	32,040.00
3	RMVL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,844	\$12.10	\$22,312.40	12	22,128.00	11	20,284.00
4	TRENCH BACKFILL	CU YD	1,894.1	\$26.04	\$49,322.36	28	53,034.80	15	28,411.50
5	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	21,666	\$1.43	\$30,982.38	1.75	37,915.50	1.3	28,165.80
6	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1,201	\$21.57	\$25,905.57	30	36,030.00	36	43,236.00
7	GRADING AND SHAPING DITCHES	FOOT	1,085	\$7.71	\$8,365.35	20	21,700.00	4.8	5,208.00
8	SEEDING, CLASS 1A	ACRE	1.7	\$2,730.00	\$4,641.00	2500	4,250.00	2600	4,420.00
9	NITROGEN FERTILIZER NUTRIENT	LB	155	\$1.42	\$220.10	2	310.00	1.35	209.25
10	PHOSPHORUS FERTILIZER NUTRIENT	LB	155	\$1.42	\$220.10	2	310.00	1.35	209.25
11	POTASSIUM FERTILIZER NUTRIENT	LB	155	\$1.42	\$220.10	2	310.00	1.35	209.25
12	MULCH, METHOD 3	ACRE	1.7	\$997.50	\$1,695.75	2000	3,400.00	950	1,615.00
13	TEMPORARY DITCH CHECKS	FOOT	132	\$13.50	\$1,782.00	12	1,584.00	12.75	1,683.00
14	PERIMETER EROSION BARRIER	FOOT	3,424	\$3.00	\$10,272.00	3	10,272.00	2.85	9,758.40
15	INLET AND PIPE PROTECTION	EACH	62	\$175.00	\$10,850.00	180	11,160.00	165	10,230.00
16	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	691	\$11.92	\$8,236.72	10	6,910.00	14	9,674.00
17	SUBBASE GRANULAR MATERIAL, TYPE A 18"	SQ YD	15,558	\$18.25	\$283,933.50	15	233,370.00	18	280,044.00
18	SUBBASE GRANULAR MATERIAL, TYPE A 30"	SQ YD	5,417	\$29.38	\$159,151.46	25	135,425.00	28	151,676.00
19	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	2,219	\$7.68	\$17,041.92	4.5	9,985.50	6.5	14,423.50
20	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	754	\$8.27	\$6,235.58	6.5	4,901.00	8.8	6,635.20
21	SUBBASE GRANULAR MATERIAL, TYPE B 8"	SQ YD	129	\$10.65	\$1,373.85	9	1,161.00	11	1,419.00
22	AGGREGATE SURFACE COURSE, TYPE B	TON	52	\$17.42	\$905.84	25	1,300.00	28	1,456.00
23	BITUMINOUS MATERIAL (PRIME COAT)	TON	5.1	\$600.00	\$3,060.00	630	3,213.00	600	3,060.00
24	AGGREGATE (PRIME COAT)	TON	26.4	\$1.00	\$26.40	1	26.40	1	26.40
25	TEMPORARY RAMP	SQ YD	3,245	\$18.37	\$59,610.65	10	32,450.00	6	19,470.00
26	HOT MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	2,377	\$71.00	\$168,767.00	75	178,275.00	71	168,767.00
27	HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1,426	\$76.00	\$108,376.00	80	114,080.00	76	108,376.00
28	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	98.9	\$98.00	\$9,692.20	103	10,186.70	98	9,692.20
29	HIGH-EARLY-STRENGTH PCC PAVEMENT 9"	SQ YD	734	\$79.50	\$58,353.00	90	66,060.00	79	57,986.00
30	PCC DRIVEWAY PAVEMENT, 6 INCH	SQ YD	590	\$61.00	\$35,990.00	70	41,300.00	63	37,170.00
31	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	19,970	\$5.90	\$117,823.00	8	159,760.00	8	159,760.00
32	DETECTABLE WARNINGS	SQ FT	216	\$37.00	\$7,992.00	60	12,960.00	40	8,640.00
33	PAVEMENT REMOVAL	SQ YD	481	\$8.37	\$4,025.97	7	3,367.00	9.6	4,617.60
34	DRIVEWAY PAVEMENT REMOVAL	SQ YD	723	\$6.25	\$4,518.75	7	5,061.00	14	10,122.00
35	COMBINATION CURB AND GUTTER REMOVAL	FOOT	548	\$3.66	\$2,005.68	4	2,192.00	11	6,028.00
36	SIDEWALK REMOVAL	SQ FT	3,555	\$1.21	\$4,301.55	1	3,555.00	3.5	12,442.50
37	PIPE CULVERT REMOVAL	FOOT	604	\$10.14	\$6,124.56	4	2,416.00	9.6	5,798.40
38	HANDRAIL, SPECIAL	FOOT	149	\$168.43	\$25,096.07	260	38,740.00	159	23,691.00
39	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	35	\$51.01	\$1,785.35	52.5	1,837.50	53	1,855.00
40	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	45	\$52.91	\$2,380.95	55	2,475.00	58	2,610.00
41	PIPE CULVERTS, CLASS A, TYPE 1 EQ RND-SIZE 15"	FOOT	35	\$80.43	\$2,815.05	75	2,625.00	90	3,150.00
42	PIPE ELBOW, 15"	EACH	1	\$418.17	\$418.17	600	600.00	860	860.00
43	PIPE ELBOW, 24"	EACH	1	\$701.07	\$701.07	900	900.00	640	640.00
44	PRECAST REINFORCED CONC FLRD END SEC 15"	EACH	9	\$572.58	\$5,153.22	650	5,850.00	760	6,840.00
45	PRECAST REINFORCED CONC FLRD END SEC 18"	EACH	2	\$591.57	\$1,183.14	675	1,350.00	680	1,360.00
46	PRECAST REINF CONC FLRD END SEC, EQ RND-SIZE 15"	EACH	2	\$641.51	\$1,283.02	750	1,500.00	740	1,480.00
47	STM SEWERS, HDPE 15"	FOOT	1374	\$46.53	\$63,932.22	50	68,700.00	53	72,822.00
48	STM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	FOOT	791	\$45.68	\$36,132.88	55	43,505.00	67	52,997.00
49	STM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18"	FOOT	37	\$54.15	\$2,003.55	60	2,220.00	66	2,442.00
50	STM SEWERS, HDPE 24"	FOOT	233	\$60.82	\$14,171.06	65	15,145.00	76	17,708.00
51	STM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24"	FOOT	49	\$68.78	\$3,370.22	70	3,430.00	84	4,116.00
52	STM SEWER REMOVAL 12"	FOOT	58	\$7.60	\$440.80	20	1,160.00	9.6	556.80
53	STM SEWER REMOVAL 15"	FOOT	253	\$7.59	\$1,920.27	20	5,060.00	9.6	2,428.80
54	STM SEWER REMOVAL 18"	FOOT	92	\$7.58	\$697.36	20	1,840.00	9.6	883.20
55	STM SEWER REMOVAL 24"	FOOT	274	\$7.59	\$2,079.66	20	5,480.00	9.6	2,630.40
56	DUCTILE IRON WATER MAIN TEE, 8" x 6"	EACH	1	\$388.86	\$388.86	650	650.00	620	620.00
57	DUCTILE IRON WATER MAIN TEE, 10" x 6"	EACH	7	\$552.16	\$3,865.12	790	5,530.00	910	6,370.00
58	DUCTILE IRON WATER MAIN TEE, 10" x 8"	EACH	1	\$603.12	\$603.12	827	827.00	990	990.00
59	DUCTILE IRON WATER MAIN TEE, 10" x 10"	EACH	1	\$614.82	\$614.82	900	900.00	1100	1,100.00
60	WATER MAIN 4" (PVC PER AWWA C909, DR 18)	FOOT	7	\$93.82	\$656.74	43	301.00	99	693.00

Item No.	Items	Unit	Quantity	Fischer Excavating		Louie's Trenching		Civil Contractors	
				Unit Price	Total	Unit Price	Total	Unit Price	Total
61	WATER MAIN 6" (PVC PER AWWA C909, DR 18)	FOOT	159	\$72.90	\$11,591.10	46	7,314.00	77	12,243.00
62	WATER MAIN 8" (PVC PER AWWA C909, DR 18)	FOOT	33	\$77.98	\$2,573.34	50	1,650.00	79	2,607.00
63	WATER MAIN 10" (PVC PER AWWA C909, DR 18)	FOOT	952	\$95.62	\$91,030.24	60	57,120.00	82	78,064.00
64	DUCTILE IRON WATER MAIN REDUCER, 8" X 4"	EACH	1	\$196.34	\$196.34	361	361.00	390	390.00
65	WATER VALVES 6"	EACH	5	\$1,002.31	\$5,011.55	1060	5,300.00	1600	8,000.00
66	WATER VALVES 8"	EACH	1	\$1,323.37	\$1,323.37	1475	1,475.00	2000	2,000.00
67	WATER VALVES 10"	EACH	4	\$2,037.77	\$8,151.08	2150	8,600.00	2600	10,400.00
68	WATER VALVES TO BE ADJUSTED	EACH	24	\$300.89	\$7,221.36	350	8,400.00	580	13,920.00
69	DUCTILE IRON WATER MAIN FITTINGS 8" 11.25° BEND	EACH	1	\$258.19	\$258.19	450	450.00	400	400.00
70	DUCTILE IRON WATER MAIN FITTINGS 4" 45.00° BEND	EACH	2	\$151.12	\$302.24	265	530.00	250	500.00
71	DUCTILE IRON WATER MAIN FITTINGS 6" 45.00° BEND	EACH	1	\$198.73	\$198.73	305	305.00	340	340.00
72	DUCTILE IRON WATER MAIN FITTINGS 10" 45.00° BEND	EACH	1	\$448.44	\$448.44	651	651.00	650	650.00
73	DUCTILE IRON WATER MAIN FITTINGS 6" 90.00° BEND	EACH	2	\$216.51	\$433.02	360	720.00	360	720.00
74	WATER SERVICE LINE 1", TYPE K COPPER	FOOT	630	\$74.96	\$47,224.80	60	37,800.00	49	30,870.00
75	CORPORATION STOPS 1"	EACH	30	\$156.00	\$4,680.00	167	5,010.00	190	5,700.00
76	CURB STOP 1" w/ CURB BOX	EACH	30	\$257.76	\$7,732.80	365	10,950.00	550	16,500.00
77	10" X 1" SADDLE	EACH	30	\$295.66	\$8,869.80	290	8,700.00	280	8,400.00
78	ADJUSTING CURB STOP BOXES	EACH	45	\$114.01	\$5,130.45	200	9,000.00	150	6,750.00
79	FIRE HYDRANTS TO BE ADJUSTED	EACH	2	\$762.87	\$1,525.74	1150	2,300.00	1400	2,800.00
80	FIRE HYDRANTS	EACH	3	\$978.18	\$2,934.54	1800	5,400.00	540	1,620.00
81	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2	\$297.64	\$595.28	200	400.00	130	260.00
82	PIPE UNDERDRAINS 4"	FOOT	7395	\$10.48	\$77,499.60	15	110,925.00	11	81,345.00
83	CATCH BASINS, TYPE B, TYPE 7 GRATE	EACH	3	\$3,833.02	\$11,499.06	4000	12,000.00	3700	11,100.00
84	INLETS, TYPE A, TYPE 8 GRATE	EACH	2	\$1,088.65	\$2,177.30	1650	3,300.00	1300	2,600.00
85	SINGLE GRATE INLET	EACH	38	\$1,307.96	\$49,702.48	2000	76,000.00	1700	64,600.00
86	48" CIRCULAR SINGLE GRATE INLET	EACH	2	\$1,472.64	\$2,945.28	2200	4,400.00	2000	4,000.00
87	FRAME & GRATE FOR INLET SPEC. (DIST. STND 13.2B)	EACH	35	\$489.40	\$17,129.00	675	23,625.00	450	15,750.00
88	FRAME & GRATE FOR INLET SPEC. (DIST. STND 13.2D)	EACH	5	\$459.56	\$2,297.80	650	3,250.00	450	2,250.00
89	CURB OPENING CASTING (NEENAH #R-3262-3)	EACH	1	\$113.40	\$113.40	220	220.00	430	430.00
90	MANHOLES TO BE ADJUSTED	EACH	15	\$1,015.67	\$15,235.05	500	7,500.00	880	13,200.00
91	REMOVING MANHOLES	EACH	4	\$503.98	\$2,015.92	350	1,400.00	210	840.00
92	REMOVING INLETS	EACH	4	\$444.71	\$1,778.84	300	1,200.00	210	840.00
93	REMOVING INLETS TO MAINTAIN FLOW	EACH	2	\$633.99	\$1,267.98	250	500.00	210	420.00
94	COMBINATION CONC CURB & GUTTER, TYPE B-6.12	FOOT	8074	\$20.50	\$165,517.00	25	201,850.00	27	217,998.00
95	COMBINATION CONC CURB & GUTTER, TYPE B-6.24	FOOT	290	\$41.00	\$11,890.00	30	8,700.00	47	13,630.00
96	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	\$3,583.00	\$3,583.00	3762	3,762.00	3583	3,583.00
97	GUARDRAIL REMOVAL	FOOT	129	\$9.65	\$1,244.85	11	1,419.00	9.65	1,244.85
98	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	55	\$42.00	\$2,310.00	45	2,475.00	42	2,310.00
99	TRAFFIC CONTROL AND PROTECTION, STND 701801	L SUM	1	\$1,000.00	\$1,000.00	1100	1,100.00	1000	1,000.00
100	PAINT PAVEMENT MARKING - LINE 6"	FOOT	445	\$3.00	\$1,335.00	3.3	1,468.50	3	1,335.00
101	PAINT PAVEMENT MARKING - LINE 24"	FOOT	134	\$6.00	\$804.00	8.8	1,179.20	6	804.00
102	STM SEWER CONNECTION TO EXISTING STM SEWER	EACH	3	\$438.76	\$1,316.28	750	2,250.00	540	1,620.00
103	STM SEWER CONNECTION TO EXISTING INLET	EACH	1	\$440.65	\$440.65	400	400.00	540	540.00
104	MANHOLE/CATCH BASIN CONNECT. OVER EX STM SEWER	EACH	2	\$1,408.18	\$2,816.36	800	1,600.00	800	1,600.00
105	FIRE HYDRANTS TO BE REMOVED & SALVAGED	EACH	3	\$332.98	\$998.94	500	1,500.00	610	1,830.00
106	DUCTILE IRON WATER MAIN FITTING - 10" PLUG	EACH	1	\$117.48	\$117.48	210	210.00	270	270.00
107	PLUG EX WATER MAIN	EACH	15	\$95.75	\$1,436.25	400	6,000.00	410	6,150.00
108	COMBINATION CONC CURB AND GUTTER, TYPE M-4.12	FOOT	91	\$39.75	\$3,617.25	40	3,640.00	41	3,731.00
109	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	\$7,500.00	\$7,500.00	9083	9,083.00	8650	8,650.00
110	AGGREGATE FOR TEMPORARY CROSSING	TON	400	\$15.78	\$6,312.00	30	12,000.00	19	7,600.00
111	SIDEWALK REPAIR (SPECIAL)	SQ FT	120	\$10.00	\$1,200.00	20	2,400.00	23	2,760.00
112	CONCRETE STEPS	CU YD	2.6	\$2,490.00	\$6,474.00	2000	5,200.00	1300	3,380.00
113	CONCRETE STEP REMOVAL	EACH	3	\$454.80	\$1,364.40	300	900.00	410	1,230.00
114	SEGMENTAL CONCRETE BLOCK RETAINING WALL	SQ FT	644	\$40.00	\$25,760.00	50	32,200.00	75	48,300.00
115	SANITARY SEWER, TYPE 1 8"	FOOT	30	\$229.94	\$6,898.20	100	3,000.00	150	4,500.00
116	UNDERDRAIN CONNECTION TO STRUCTURE	EACH	34	\$223.54	\$7,600.36	200	6,800.00	360	12,240.00
117	WOOD FENCE TO BE REMOVED AND RE-ERECTED	FOOT	75	\$50.34	\$3,775.50	40	3,000.00	25	1,875.00
118	DRAIN FOR AGGREGATE BASE COURSE	SQ YD	11	\$24.23	\$266.53	25	275.00	140	1,540.00
119	COMBINATION CONC CURB AND GUTTER, TYPE M-4.12	FOOT	63	\$45.00	\$2,835.00	40	2,520.00	40	2,520.00
120	CONSTRUCTION LAYOUT	L SUM	1	\$27,020.00	\$27,020.00	40000	40,000.00	21500	21,500.00
	TOTAL				\$2,359,685.47		\$2,393,877.44		\$2,472,556.30