



Union Chapel Road Phase 5  
Contract EN-154

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ENGINEER'S ESTIMATE		E&B PAVING, INC. / GRADEX, INC.		CALUMET CIVIL CONTRACTORS,	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
1	CONSTRUCTION ENGINEERING	LS	1	\$52,000.00	\$52,000.00	\$25,000.00	\$25,000.00	\$16,050.00	\$16,050.00
2	FIELD OFFICE, A	MOS	10	\$2,100.00	\$21,000.00	\$2,200.00	\$22,000.00	\$2,500.00	\$25,000.00
3	MOBILIZATION AND DEMOBILIZATION	LS	1	\$150,000.00	\$150,000.00	\$109,000.00	\$109,000.00	\$120,000.00	\$120,000.00
4	CLEARING RIGHT OF WAY	LS	1	\$35,000.00	\$35,000.00	\$25,062.23	\$25,062.23	\$21,033.43	\$21,033.43
5	MAINTAINING TRAFFIC	LS	1	\$20,000.00	\$20,000.00	\$38,999.36	\$38,999.36	\$11,000.00	\$11,000.00
6	EXCAVATION, COMMON	CYS	23146	\$12.00	\$277,752.00	\$9.15	\$211,785.90	\$10.07	\$233,080.22
7	TEMPORARY SILT FENCE	LFT	1534	\$1.50	\$2,301.00	\$1.30	\$1,994.20	\$1.25	\$1,917.50
8	NO 2 STONE (FOR TEMPORARY CONSTRUCTION ENTRANCE)	TON	296	\$16.00	\$4,736.00	\$20.00	\$5,920.00	\$15.20	\$4,499.20
9	TEMPORARY DITCH INLET PROTECTION	EACH	8	\$150.00	\$1,200.00	\$88.00	\$704.00	\$85.00	\$680.00
10	TEMPORARY CHECK DAM	LFT	829	\$15.00	\$12,435.00	\$7.00	\$5,803.00	\$6.75	\$5,595.75
11	TEMPORARY SEDIMENT BASIN	EACH	1	\$3,500.00	\$3,500.00	\$2,300.00	\$2,300.00	\$8,701.55	\$8,701.55
12	SUBGRADE TREATMENT, TYPE IA	SYS	19385	\$8.00	\$155,080.00	\$4.88	\$94,598.80	\$6.30	\$122,125.50
13	COMPACTED AGGREGATE, 53	TON	2629	\$20.00	\$52,580.00	\$24.00	\$63,096.00	\$20.00	\$52,580.00
14	COMPACTED AGGREGATE, 53, O	TON	1649	\$30.00	\$49,470.00	\$19.50	\$32,155.50	\$18.00	\$29,682.00
15	HMA SURFACE TYPE B 9.5 mm	TON	1422	\$70.00	\$99,540.00	\$70.00	\$99,540.00	\$71.00	\$100,962.00
16	HMA SURFACE TYPE B 12.5 mm	TON	816	\$70.00	\$57,120.00	\$62.00	\$50,592.00	\$85.00	\$69,360.00
17	HMA INTERMEDIATE TYPE B 19.0 mm	TON	2323	\$60.00	\$139,380.00	\$49.00	\$113,827.00	\$59.00	\$137,057.00
18	HMA BASE TYPE B 25.0 mm	TON	11915	\$55.00	\$655,325.00	\$40.00	\$476,600.00	\$52.00	\$619,580.00
19	HMA SURFACE TYPE A 9.5 mm	TON	307	\$100.00	\$30,700.00	\$70.00	\$21,490.00	\$70.00	\$21,490.00
20	HMA INTERMEDIATE TYPE A 19.0 mm	TON	62	\$90.00	\$5,580.00	\$99.00	\$6,138.00	\$100.00	\$6,200.00
21	HMA BASE, TYPE A 25.0 mm	TON	911	\$65.00	\$59,215.00	\$43.00	\$39,173.00	\$57.00	\$51,927.00
22	MILLING ASPHALT, 1.5"	SYS	485	\$1.00	\$485.00	\$10.00	\$4,850.00	\$7.00	\$3,395.00
23	ASPHALT FOR TACK COAT	TON	20	\$400.00	\$8,000.00	\$350.00	\$7,000.00	\$100.00	\$2,000.00
24	PCCP FOR CROSSWALK, 6"	SYS	20	\$95.00	\$1,900.00	\$82.00	\$1,640.00	\$50.00	\$1,000.00
25	DECORATIVE CONCRETE, 11.5 IN	SYS	529	\$100.00	\$52,900.00	\$80.00	\$42,320.00	\$78.00	\$41,262.00
26	CONCRETE PAVERS	SYS	465	\$80.00	\$37,200.00	\$82.56	\$38,390.40	\$71.84	\$33,405.60
27	CONCRETE PAD (8'x8')	CYS	1	\$350.00	\$350.00	\$750.00	\$750.00	\$500.00	\$500.00
28	18" BOX CURB W/ 6" FACE	LFT	233	\$16.00	\$3,728.00	\$17.00	\$3,961.00	\$14.00	\$3,262.00
29	2' INVERTED CONCRETE ROLL CURB/GUTTER TYPE I	LFT	950	\$20.00	\$19,000.00	\$22.00	\$20,900.00	\$15.00	\$14,250.00
30	2' COMBINED CONCRETE CURB/GUTTER TYPE II (6")	LFT	1113	\$20.00	\$22,260.00	\$11.50	\$12,799.50	\$16.00	\$17,808.00
31	2' INVERTED COMBINED CONCRETE CURB/GUTTER TYPE II (6")	LFT	185	\$25.00	\$4,625.00	\$17.50	\$3,237.50	\$16.00	\$2,960.00
32	CURB RAMP, CONCRETE	SYS	52	\$100.00	\$5,200.00	\$85.00	\$4,420.00	\$88.00	\$4,576.00
33	CURB RAMP, CASTING, DETECTABLE WARNING PLATE 2'X2'	EACH	32	\$100.00	\$3,200.00	\$90.00	\$2,880.00	\$132.00	\$4,224.00
34	MONUMENT, B	EACH	9	\$675.00	\$6,075.00	\$650.00	\$5,850.00	\$650.00	\$5,850.00
35	MONUMENT, C	EACH	4	\$450.00	\$1,800.00	\$500.00	\$2,000.00	\$500.00	\$2,000.00
36	MONUMENT, D	EACH	3	\$150.00	\$450.00	\$150.00	\$450.00	\$150.00	\$450.00
37	R/W MARKER	EACH	16	\$150.00	\$2,400.00	\$135.00	\$2,160.00	\$135.00	\$2,160.00
38	SECTION CORNER MARKER	EACH	1	\$750.00	\$750.00	\$550.00	\$550.00	\$550.00	\$550.00
39	SODDING, NURSERY	SYS	1662	\$3.00	\$4,986.00	\$3.80	\$6,315.60	\$2.50	\$4,155.00
40	TEMPORARY SEEDING	LSUM	1	\$5,000.00	\$5,000.00	\$1,770.00	\$1,770.00	\$1,700.00	\$1,700.00
41	MULCHED SEEDING	SYS	26247	\$2.50	\$65,617.50	\$0.37	\$9,711.39	\$0.36	\$9,448.92
42	NATIVE WETLAND PLANTINGS	SYS	3551	\$15.00	\$53,265.00	\$14.75	\$52,377.25	\$14.19	\$50,388.69
43	PIPE, UNDERDRAIN, CIRCULAR, 6 IN. DOUBLE WALL	LFT	4975	\$5.00	\$24,875.00	\$5.00	\$24,875.00	\$6.43	\$31,989.25
44	CLEANOUT, UNDERDRAIN	EACH	24	\$800.00	\$19,200.00	\$500.00	\$12,000.00	\$258.00	\$6,192.00
45	AGGREGATE FOR UNDERDRAIN, NO 8	CYS	284	\$35.00	\$9,940.00	\$28.60	\$8,122.40	\$29.40	\$8,349.60
46	GEOTEXTILE FOR UNDERDRAIN	SYS	1347	\$3.00	\$4,041.00	\$1.00	\$1,347.00	\$1.23	\$1,656.81
47	VIDEO INSPECTION FOR UNDERDRAIN	LFT	3000	\$1.50	\$4,500.00	\$1.00	\$3,000.00	\$1.00	\$3,000.00
48	BOX CULVERT, CONCRETE, 5' x 3'	LFT	256	\$350.00	\$89,600.00	\$282.00	\$72,192.00	\$315.02	\$80,645.12
49	PIPE, RCP, CIRCULAR, 12 IN.	LFT	1464	\$30.00	\$43,920.00	\$31.00	\$45,384.00	\$60.06	\$87,927.84
50	PIPE, RCP, CIRCULAR, 15 IN.	LFT	498	\$35.00	\$17,430.00	\$34.00	\$16,932.00	\$62.50	\$31,125.00
51	PIPE, RCP, CIRCULAR, 18 IN.	LFT	80	\$38.00	\$3,040.00	\$45.00	\$3,600.00	\$93.18	\$7,454.40
52	PIPE, RCP, CIRCULAR, 24 IN.	LFT	292	\$45.00	\$13,140.00	\$52.00	\$15,184.00	\$70.80	\$20,673.60
53	CORE MANHOLE	LSUM	1	\$1,000.00	\$1,000.00	\$1,100.00	\$1,100.00	\$5,000.00	\$5,000.00
54	STRUCTURE BACKFILL	CYS	1026	\$25.00	\$25,650.00	\$20.00	\$20,520.00	\$14.46	\$14,835.96
55	RIPRAP, REVETMENT	TONS	176	\$38.00	\$6,688.00	\$31.00	\$5,456.00	\$29.41	\$5,176.16
56	GEOTEXTILE	SYS	318	\$4.00	\$1,272.00	\$2.25	\$715.50	\$2.00	\$636.00
57	12" CONCRETE PIPE END SECTION	EACH	13	\$350.00	\$4,550.00	\$550.00	\$7,150.00	\$340.00	\$4,420.00
58	15" CONCRETE PIPE END SECTION	EACH	2	\$400.00	\$800.00	\$600.00	\$1,200.00	\$350.00	\$700.00
59	18" CONCRETE PIPE END SECTION	EACH	1	\$450.00	\$450.00	\$630.00	\$630.00	\$400.00	\$400.00
60	PIPE, PVC, SDR-26, 8 IN, FIELD TILE RESTORE (UNDISTRIBUTED)	LFT	80	\$40.00	\$3,200.00	\$20.00	\$1,600.00	\$36.30	\$2,904.00
61	INLET, A	EACH	6	\$1,600.00	\$9,600.00	\$1,300.00	\$7,800.00	\$933.20	\$5,599.20
62	INLET, B	EACH	14	\$1,800.00	\$25,200.00	\$1,500.00	\$21,000.00	\$1,140.65	\$15,969.10
63	MANHOLE, TYPE C	EACH	8	\$2,500.00	\$20,000.00	\$1,900.00	\$15,200.00	\$1,853.83	\$14,830.64
64	CASTING, ADJUST TO GRADE	EACH	3	\$350.00	\$1,050.00	\$725.00	\$2,175.00	\$514.00	\$1,542.00
65	4" PAIR, SCHEDULE 40 CONDUIT	LFT	3030	\$15.00	\$45,450.00	\$11.00	\$33,330.00	\$13.42	\$40,662.60
66	HANDHOLE FOR CONDUIT	EACH	15	\$800.00	\$12,000.00	\$825.00	\$12,375.00	\$775.00	\$11,625.00
67	BARRICADE, III-A	LFT	72	\$25.00	\$1,800.00	\$25.00	\$1,800.00	\$25.00	\$1,800.00
68	BARRICADE, III-B	LFT	72	\$30.00	\$2,160.00	\$28.00	\$2,016.00	\$28.00	\$2,016.00
69	CONSTRUCTION SIGN, A	EACH	20	\$250.00	\$5,000.00	\$195.00	\$3,900.00	\$195.00	\$3,900.00
70	CONSTRUCTION SIGN, B	EACH	7	\$150.00	\$1,050.00	\$115.00	\$805.00	\$115.00	\$805.00
71	CONSTRUCTION SIGN, C	EACH	3	\$350.00	\$1,050.00	\$295.00	\$885.00	\$295.00	\$885.00
72	PORTABLE CHANGEABLE MESSAGE SIGN	DAYS	42	\$10.00	\$420.00	\$80.00	\$3,360.00	\$80.00	\$3,360.00
73	DETOUR ROUTE ASSEMBLY	EACH	48	\$150.00	\$7,200.00	\$125.00	\$6,000.00	\$125.00	\$6,000.00
74	ROAD CLOSURE ASSEMBLY	EACH	3	\$500.00	\$1,500.00	\$395.00	\$1,185.00	\$395.00	\$1,185.00
75	TYPE II SERVICE POINT	EACH	1	\$5,000.00	\$5,000.00	\$5,600.00	\$5,600.00	\$5,290.00	\$5,290.00
76	CONDUIT, STEEL, GALVANIZED, 2 IN	LFT	326	\$12.00	\$3,912.00	\$12.00	\$3,912.00	\$12.70	\$4,140.20
77	CABLE, 4-1/C NO 4	LFT	914	\$8.00	\$7,312.00	\$8.00	\$7,312.00	\$6.25	\$5,712.50
78	STREET LIGHT ASSEMBLY WITH FOUNDATION	EACH	12	\$9,000.00	\$108,000.00	\$7,800.00	\$93,600.00	\$7,240.00	\$86,880.00
79	HANDHOLE, LIGHTING	EACH	3	\$800.00	\$2,400.00	\$825.00	\$2,475.00	\$800.00	\$2,400.00
80	SIGN, SHEET, ENCAPSULATED LENS, WITH LEGEND, 0.080 IN	SFT	292	\$15.00	\$4,380.00	\$15.00	\$4,380.00	\$13.55	\$3,956.60
81	SIGN, SHEET, ENCAPSULATED LENS, WITH LEGEND, 0.100 IN	SFT	103	\$16.00	\$1,648.00	\$17.00	\$1,751.00	\$14.80	\$1,524.40
82	SIGN POST, SQUARE, TYPE 1, UNREINFORCED ANCHOR BASE	LFT	724	\$15.00	\$10,860.00	\$11.00	\$7,964.00	\$11.90	\$8,615.60
83	HAZARD MARKER	EACH	4	\$120.00	\$480.00	\$195.00	\$780.00	\$205.00	\$820.00
84	LED ENHANCED SIGN ASSEMBLY	EACH	4	\$3,000.00	\$12,000.00	\$3,200.00	\$12,800.00	\$2,456.00	\$9,824.00
85	LINE, THERMOPLASTIC, SOLID, WHITE, 4 IN	LFT	6000	\$0.50	\$3,000.00	\$0.40	\$2,400.00	\$0.40	\$2,400.00
86	LINE, THERMOPLASTIC, SOLID, WHITE, 6 IN	LFT	124	\$1.00	\$124.00	\$1.40	\$173.60	\$1.40	\$173.60
87	LINE, THERMOPLASTIC, SOLID, WHITE, 8 IN	LFT	42	\$1.50	\$63.00	\$1.95	\$81.90	\$1.95	\$81.90
88	LINE, THERMOPLASTIC, SOLID, YELLOW, 4 IN	LFT	7044	\$0.50	\$3,522.00	\$0.40	\$2,817.60	\$0.40	\$2,817.60
89	LINE, THERMOPLASTIC, SOLID, YELLOW, 8 IN	LFT	365	\$1.50	\$547.50	\$1.95	\$711.75	\$1.95	\$711.75
90	LINE, THERMOPLASTIC, BROKEN, WHITE, 12 IN	LFT	61	\$3.25	\$198.25	\$4.85	\$295.85	\$4.85	\$295.85
91	LINE, THERMOPLASTIC, BROKEN, YELLOW, 4 IN	LFT	1095	\$1.00	\$1,095.00	\$0.40	\$438.00	\$0.40	\$438.00
92	PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, LANE INDICATION ARROW	EACH	17	\$100.00	\$1,700.00	\$110.00	\$1,870.00	\$110.00	\$1,870.00
93	PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, FISHHOOK	EACH	1	\$350.00	\$350.00	\$290.00	\$290.00	\$290.00	\$290.00
94	PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, WORD, "ONLY"	EACH	12	\$125.00	\$1,500.00	\$150.00	\$1,800.00	\$150.00	\$1,800.00
95	PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, WORD, "YIELD"	EACH	5	\$125.00	\$625.00	\$175.00	\$875.00	\$175.00	\$875.00
96	TRANSVERSE MARKINGS, THERMOPLASTIC, SHARKS TEETH, WHITE	LFT	70	\$8.00	\$560.00	\$15.00	\$1,050.00	\$15.00	\$1,050.00
97	RAISED PAVEMENT MARKER, 2-WAY REFLECTIVE	EACH	66	\$40.00	\$2,640.00	\$43.96	\$2,901.36	\$43.96	\$2,901.36
Estimated Total					\$2,761,798.25		\$2,179,229.59		\$2,432,000.00