July 17, 2014

TO THE BOARD OF PUBLIC WORKS
CITY OF WAUKESHA, WISCONSIN

Periodical estimate for Partial Payment No. 5 to Terra Engineering & Construction Corp., 2201 Vondron Rd., Madison, WI 53718-6795 for Minooka Parkway Estates Sanitary Sewer Lining.

Contract No. 3817 4/4/2013 $ 478,313.25

No	Quantity	Description	@	Cost	Per Unit	Amount
1	525.1	Lin. Ft. of 12" Diameter Resin Impregnated Flexible Cured In Place Pipe Liner	@	$37.75	Lin. Ft.	$19,822.53
2	539.8	Lin. Ft. of 10" Diameter Resin Impregnated Flexible Cured In Place Pipe Liner	@	$26.50	Lin. Ft.	$14,304.70
3	11,399.9	Lin. Ft. of 8" Diameter Resin Impregnated Flexible Cured In Place Pipe Liner	@	$23.00	Lin. Ft.	$262,197.70
4	206	Lateral Reconnections	@	$75.00	Each	$15,450.00
5	199	Lateral Connection Test and Seals	@	$266.00	Each	$52,934.00
6	52	Replace Cover	@	$63.00	Each	$3,276.00
7	3	Replace Cover and Frame	@	$2,625.00	Each	$7,875.00
8	8	Replace Cover, Frame and Chimney	@	$2,730.00	Each	$21,840.00
9	1	Replace Cover, Frame and Chimney on MH 1207 in Hwy. 59/164 (Approx. 0.6 Vert. Ft.)	@	$5,250.00	Each	$5,250.00
10	54	Rehabilititate Chimney with a Cementitious Liner (Approx. 60.2 Vert. Ft.)	@	$362.25	Each	$19,561.50
11	5	Rehabilititate Entire Manhole with a Cementitious Liner (Approx. 45.3 Vert. Ft.)	@	$1,575.00	Each	$7,875.00
12	19	Bench, Invert, Trough Work Minor	@	$367.50	Each	$6,982.50
13	12	Bench, Invert, Trough Work Major	@	$945.00	Each	$11,340.00
14	4	Install Inside Drop Pipe (Approx. 8.7 Vert. Ft.)	@	$2,415.00	Each	$9,660.00
15	58	Install Internal Chinmey Seal (Approx. 79.6 Vert. Ft.)	@	$375.00	Each	$21,750.00
		Total				$480,118.93
		Less Retainage				$5,000.00
		Subtotal				$475,118.93
		Less Amount Previously Paid				$417,184.93
		Total Amount Due				$57,934.00

This estimate has been checked by the Engineering Department and we recommend that the above amount of $57,934.00 be allowed.

Respectfully Submitted,

Fred V. Abadi, PhD., P.E.
Director of Public Works

Robin/Excel/Partials/Terra-3817