

## Mill Levy Package 9 (Traffic Signal Upgrades)

OPINION OF PROBABLE CONSTRUCTION COSTS

Engineer's Estimate

W.L. Contractors

Sturgeon Electric

For Advertisement Plan Submittal - May 27, 2019

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT TOTAL	UNIT COST	TOTAL COST	Unit	Project Total	Unit Cost	Total Cost	Unit	Project Total	Unit Cost	Total Cost
A.													
201-00000	CLEARING AND GRUBBING	LS	1	\$8,000.00	\$8,000.00	LS	1	\$1,360.00	\$1,360.00	LS	1	\$15,000.00	\$15,000.00
202-00200	REMOVAL OF SIDEWALK	SY	410	\$25.00	\$10,250.00	SY	410	\$38.00	\$15,580.00	SY	410	\$34.25	\$14,042.50
202-00175	REMOVAL OF CONCRETE	SY	37	\$30.00	\$1,110.00	SY	37	\$39.00	\$1,443.00	SY	37	\$47.75	\$1,766.75
202-00190	REMOVAL OF CONCRETE MEDIAN COVER MATERIAL	SY	126	\$50.00	\$6,320.00	SY	126	\$37.50	\$4,725.00	SY	126	\$34.25	\$4,315.50
202-00203	REMOVAL OF CURB AND GUTTER	LF	597	\$11.00	\$6,567.00	LF	597	\$13.00	\$7,761.00	LF	597	\$12.75	\$7,611.75
202-00206	REMOVAL OF CONCRETE CURB RAMP	SY	881	\$25.00	\$22,025.00	SY	881	\$39.00	\$34,359.00	SY	881	\$35.50	\$31,275.50
202-00207	REMOVAL OF FLAG STONE SIDEWALK	SY	59	\$30.00	\$1,770.00	SY	59	\$44.00	\$2,596.00	SY	59	\$47.25	\$2,787.75
202-00220	REMOVAL OF ASPHALT MAT	SY	516	\$40.00	\$20,640.00	SY	516	\$37.00	\$19,092.00	SY	516	\$32.25	\$16,641.00
202-00250	REMOVAL OF PAVEMENT MARKING	SF	5511	\$2.00	\$11,022.00	SF	5511	\$2.00	\$11,022.00	SF	5511	\$2.00	\$11,022.00
202-00828	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	EA	8	\$10,000.00	\$80,000.00	EA	8	\$5,925.00	\$47,400.00	EA	8	\$8,000.00	\$64,000.00
202-01000	RESET FENCE	LF	37	\$15.00	\$555.00	LF	37	\$55.00	\$2,035.00	LF	37	\$160.00	\$5,920.00
203-00100	MUCK EXCAVATION	CY	40	\$200.00	\$8,000.00	CY	40	\$63.00	\$2,520.00	CY	40	\$310.00	\$12,400.00
203-01597	POTHOLING	EA	160	\$230.00	\$36,800.00	EA	160	\$285.00	\$45,600.00	EA	160	\$455.00	\$72,800.00
208-00051	STORM DRAIN INLET PROTECTION	EA	24	\$275.00	\$6,600.00	EA	24	\$220.00	\$5,280.00	EA	24	\$270.00	\$6,480.00
210-00810	RESET GROUND SIGN	EA	2	\$100.00	\$200.00	EA	2	\$400.00	\$800.00	EA	2	\$650.00	\$1,300.00
210-04010	ADJUST MANHOLE	EA	1	\$2,000.00	\$2,000.00	EA	1	\$1,300.00	\$1,300.00	EA	1	\$2,610.00	\$2,610.00
210-05015	ADJUST PULL BOX	EA	1	\$500.00	\$500.00	EA	1	\$260.00	\$260.00	EA	1	\$1,120.00	\$1,120.00
212-00100	TREE RETENTION AND PROTECTION	EA	19	\$500.00	\$9,500.00	EA	19	\$460.00	\$8,740.00	EA	19	\$1,100.00	\$20,900.00
213-00001	MULCHING (WOOD CHIP)	SF	94	\$3.00	\$282.00	SF	94	\$13.00	\$1,222.00	SF	94	\$30.00	\$2,820.00
403-00721	HOT MIX ASPHALT (PATCHING)(ASPHALT)	SY	421	\$120.00	\$50,520.00	SY	421	\$82.00	\$34,522.00	SY	421	\$73.00	\$30,733.00
412-01200	CONCRETE PAVEMENT (12 INCH)	SY	364	\$140.00	\$50,960.00	SY	364	\$140.00	\$50,960.00	SY	364	\$123.00	\$44,772.00
608-00006	CONCRETE SIDEWALK (6 INCH)	SY	415	\$65.00	\$26,975.00	SY	415	\$83.00	\$34,445.00	SY	415	\$74.00	\$30,710.00
608-00005	CONCRETE SIDEWALK (SPECIAL)	SY	17	\$75.00	\$1,275.00	SY	17	\$117.00	\$1,989.00	SY	17	\$130.00	\$2,210.00
608-00010	CONCRETE CURB RAMP	SY	763	\$170.00	\$129,710.00	SY	763	\$168.00	\$128,184.00	SY	763	\$148.00	\$112,924.00
608-00012	CONCRETE CURB RAMP (SPECIAL)	SY	15	\$180.00	\$2,700.00	SY	15	\$174.00	\$2,610.00	SY	15	\$188.00	\$2,820.00
609-20011	6 INCH CURB HEAD	LF	110	\$35.00	\$3,850.00	LF	110	\$39.00	\$4,290.00	LF	110	\$37.00	\$4,070.00
609-21020	6" CURB AND GUTTER - 2' CATCH PAN	LF	754	\$45.00	\$33,912.00	LF	754	\$52.00	\$39,208.00	LF	754	\$47.00	\$35,438.00
503-00036	DRILLED CAISSON (36 INCH)	LF	135.0	\$400.00	\$54,000.00	LF	135	\$395.00	\$53,325.00	LF	135	\$550.00	\$74,250.00
503-00037	VACUUMED CAISSON (36 INCH)	LF	135.0	\$450.00	\$60,750.00	LF	135	\$395.00	\$53,325.00	LF	135	\$550.00	\$74,250.00
613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF	2145	\$25.00	\$53,625.00	LF	2145	\$34.00	\$72,930.00	LF	2145	\$47.00	\$100,815.00
613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF	4006	\$25.00	\$100,150.00	LF	4006	\$28.00	\$112,168.00	LF	4006	\$50.00	\$200,300.00
613-06000	ELECTRIC METER PEDESTAL CABINET AND BASE	EA	8	\$4,000.00	\$32,000.00	EA	8	\$4,385.00	\$35,080.00	EA	8	\$4,875.00	\$39,000.00
613-07000	PULL BOX (SPECIAL)	EA	7	\$1,500.00	\$10,500.00	EA	7	\$1,975.00	\$13,825.00	EA	7	\$1,525.00	\$10,675.00
613-10000	WIRING (PER INTERSECTION)	EA	8	\$10,000.00	\$80,000.00	EA	8	\$6,000.00	\$48,000.00	EA	8	\$10,800.00	\$86,400.00
613-70250	LUMINAIRE (LED)(5300 LUMENS)(55 WATT)	EA	30	\$1,000.00	\$30,000.00	EA	30	\$840.00	\$25,200.00	EA	30	\$830.00	\$24,900.00
614-00011	SIGN PANEL (CLASS I)	SF	539	\$35.00	\$18,847.50	SF	539	\$38.00	\$20,482.00	SF	539	\$39.25	\$21,155.75
614-70150	PEDESTRIAN SIGNAL FACE (16" )(COUNT DOWN)	EA	64	\$550.00	\$35,200.00	EA	64	\$490.00	\$31,360.00	EA	64	\$725.00	\$46,400.00
614-70200	ACCESSIBLE PEDESTRIAN SIGNAL	EA	1	\$1,500.00	\$1,500.00	EA	1	\$1,565.00	\$1,565.00	EA	1	\$10,000.00	\$10,000.00

614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EA	81	\$800.00	\$64,800.00	EA	81	\$755.00	\$61,155.00	EA	81	\$970.00	\$78,570.00	
614-72854	TRAFFIC SIGNAL CONTROLLER AND CABINET	EA	8	\$25,000.00	\$200,000.00	EA	8	\$22,000.00	\$176,000.00	EA	8	\$26,000.00	\$208,000.00	
614-72864	FIRE PREEMPTION UNIT AND TIMER	EA	20	\$5,000.00	\$100,000.00	EA	20	\$2,875.00	\$57,500.00	EA	20	\$3,200.00	\$64,000.00	
614-81000	TRAFFIC SIGNAL-LIGHT POLE STEEL	EA	12	\$4,500.00	\$54,000.00	EA	12	\$6,450.00	\$77,400.00	EA	12	\$5,400.00	\$64,800.00	
614-81020	TRAFFIC SIGNAL-LIGHT POLE STEEL (2-40 FT MAST ARM)	EA	1	\$20,000.00	\$20,000.00	EA	1	\$33,450.00	\$33,450.00	EA	1	\$28,600.00	\$28,600.00	
614-81020	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-30 FT MAST ARM AND 1-25 FT MAST ARM))	EA	1	\$19,000.00	\$19,000.00	EA	1	\$28,888.00	\$28,888.00	EA	1	\$24,700.00	\$24,700.00	
614-81120	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-20 FT MAST ARM)	EA	4	\$15,000.00	\$60,000.00	EA	4	\$21,750.00	\$87,000.00	EA	4	\$18,700.00	\$74,800.00	
614-81125	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-25 FT MAST ARM)	EA	2	\$15,250.00	\$30,500.00	EA	2	\$22,555.00	\$45,110.00	EA	2	\$19,350.00	\$38,700.00	
614-81130	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-30 FT MAST ARM)	EA	1	\$15,500.00	\$15,500.00	EA	1	\$23,430.00	\$23,430.00	EA	1	\$20,110.00	\$20,110.00	
614-81135	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-35 FT MAST ARM)	EA	2	\$15,750.00	\$31,500.00	EA	2	\$24,150.00	\$48,300.00	EA	2	\$20,675.00	\$41,350.00	
614-81140	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-40 FT MAST ARM)	EA	1	\$16,000.00	\$16,000.00	EA	1	\$25,460.00	\$25,460.00	EA	1	\$21,700.00	\$21,700.00	
614-81145	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-45 FT MAST ARM)	EA	5	\$16,500.00	\$82,500.00	EA	5	\$28,206.00	\$141,030.00	EA	5	\$23,850.00	\$119,250.00	
614-81150	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-50 FT MAST ARM)	EA	1	\$18,000.00	\$18,000.00	EA	1	\$28,745.00	\$28,745.00	EA	1	\$24,350.00	\$24,350.00	
614-84100	TRAFFIC SIGNAL PEDESTAL POLE ALUMINUM	EA	2	\$2,500.00	\$5,000.00	EA	2	\$1,740.00	\$3,480.00	EA	2	\$2,700.00	\$5,400.00	
614-86105	TELEMETRY (FIELD)	EA	8	\$5,000.00	\$40,000.00	EA	8	\$1,905.00	\$15,240.00	EA	8	\$4,975.00	\$39,800.00	
614-86800	UNINTERRUPTED POWER SUPPLY	EA	8	\$6,000.00	\$48,000.00	EA	8	\$6,900.00	\$55,200.00	EA	8	\$5,765.00	\$46,120.00	
614-87330	RESET CCTV CAMERA	EA	2	\$2,000.00	\$4,000.00	EA	2	\$945.00	\$1,890.00	EA	2	\$1,490.00	\$2,980.00	
614-87333	CLOSED CIRCUIT TELEVISION CAMERA (TRAFFIC MONITORING)	EA	6	\$5,000.00	\$30,000.00	EA	6	\$5,600.00	\$33,600.00	EA	6	\$5,750.00	\$34,500.00	
614-87690	ETHERNET MANAGE FIELD SWITCH	EA	8	\$4,000.00	\$32,000.00	EA	8	\$4,800.00	\$38,400.00	EA	8	\$4,385.00	\$35,080.00	
625-00000	CONSTRUCTION SURVEYING	LS	1	\$30,000.00	\$30,000.00	LS	1	\$55,075.00	\$55,075.00	LS	1	\$47,250.00	\$47,250.00	
626-00000	MOBILIZATION	LS	1	\$80,000.00	\$80,000.00	LS	1	\$177,650.00	\$177,650.00	LS	1	\$100,616.50	\$100,616.50	
627-30410	PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (X-WALK & STOP)	SF	6848	\$15.00	\$102,720.00	SF	6848	\$12.00	\$82,176.00	SF	6848	\$11.00	\$75,328.00	
630-10005	TRAFFIC CONTROL	EA	8	\$25,000.00	\$200,000.00	EA	8	\$31,580.00	\$252,640.00	EA	8	\$31,125.00	\$249,000.00	
	<b>Subtotal A</b>				<b>\$2,292,135.50</b>				<b>\$2,525,382.00</b>				<b>\$2,691,640.00</b>	
700-70082	FURNISH AND INSTALL ELECTRICAL SERVICE ALLOWANCE	FA	1	\$20,000.00	\$20,000.00	FA	1	\$20,000.00	\$20,000.00	FA	1	\$20,000.00	\$20,000.00	
700-70310	LANDSCAPING ALLOWANCE	FA	1	\$10,000.00	\$10,000.00	FA	1	\$10,000.00	\$10,000.00	FA	1	\$10,000.00	\$10,000.00	
700-70380	EROSION CONTROL ALLOWANCE	FA	1	\$10,000.00	\$10,000.00	FA	1	\$10,000.00	\$10,000.00	FA	1	\$10,000.00	\$10,000.00	
700-70589	ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT ALLOWANCE	FA	1	\$10,000.00	\$10,000.00	FA	1	\$10,000.00	\$10,000.00	FA	1	\$10,000.00	\$10,000.00	
700-70592	SURVEY MONUMENTATION ALLOWANCE	FA	1	\$15,000.00	\$15,000.00	FA	1	\$15,000.00	\$15,000.00	FA	1	\$15,000.00	\$15,000.00	
									\$2,590,382.00				\$2,756,640.00	
									Textura Fee	\$5,850.00	Textura Fee		\$5,850.00	
<b>TOTAL</b>									\$2,357,135.50				\$2,596,232.00	\$2,762,490.00