

Oak Valley Right Turn Lanes at Ann Arbor-Saline Rd

Signal Items

ITEM CODE	DESCRIPTION	UNIT	TOTAL	UNIT PRICE	COST
1500001	Mobilization, Max 10%	LSUM	1	\$9,750.00	\$9,750.00
2090001	Project Cleanup	LSUM	1	\$3,275.00	\$3,275.00
8100560	Mast Arm, Rem	Ea	4	\$1,775.00	\$7,100.00
8100570	Mast Arm Std, Rem	Ea	4	\$1,775.00	\$7,100.00
8190017	Cable, Sec, Rem	Ft	125	\$3.00	\$375.00
8190027	Conduit, DB, 1, 1 1/2 inch	Ft	180	\$12.00	\$2,160.00
8190032	Conduit, DB, 2, 3 inch	Ft	55	\$30.00	\$1,650.00
8190236	Cable, Equipment Grounding Wire, 1/C#6	Ft	135	\$2.00	\$270.00
8190254	Hh, Rem	Ea	11	\$550.00	\$6,050.00
8190260	Hh, Round	Ea	7	\$1,900.00	\$13,300.00
8190360	Luminaire, Rem	Ea	4	\$75.00	\$300.00
8190602	Conduit, Directional Bore, 1, 3 inch	Ft	100	\$65.00	\$6,500.00
8190605	Conduit, Directional Bore, 2, 4 inch	Ft	285	\$87.00	\$24,795.00
8197001	Conduit, DB, 1, 2 inch	Ft	165	\$12.00	\$1,980.00
8197001	Sec Cable, 600V, 2, 2/C#8	Ft	135	\$11.00	\$1,485.00
8200020	Case Sign, Rem	Ea	6	\$300.00	\$1,800.00
8200030	Controller and Cabinet, Rem	Ea	1	\$300.00	\$300.00
8200045	Controller Fdn, Base Mount	Ea	1	\$2,350.00	\$2,350.00
8200046	Controller Fdn, Rem	Ea	1	\$725.00	\$725.00
8200065	Fdn, Rem	Ea	4	\$2,725.00	\$10,900.00
8200100	Pedestal, Alum	Ea	5	\$900.00	\$4,500.00
8200105	Pedestal, Fdn	Ea	7	\$1,200.00	\$8,400.00
8200106	Pedestal Fdn, Rem	Ea	8	\$400.00	\$3,200.00
8200110	Pedestal, Rem	Ea	3	\$250.00	\$750.00
8200122	Pushbutton, Rem	Ea	8	\$200.00	\$1,600.00
8200123	Pushbutton Pedestal, Alum	Ea	2	\$800.00	\$1,600.00
8200124	Pushbutton Pedestal, Rem	Ea	5	\$200.00	\$1,000.00
8200128	Push Button Station and Sign	Ea	8	\$1,500.00	\$12,000.00
8200177	TS, Mast Arm Mtd, Rem	Ea	12	\$225.00	\$2,700.00
8200180	TS, Pedestrian, Bracket Arm Mtd, Rem	Ea	3	\$200.00	\$600.00
8200181	TS, Pedestrian, Pedestal Mtd, Rem	Ea	3	\$200.00	\$600.00
8200184	Cabinet, Rem	Ea	4	\$600.00	\$2,400.00
8200240	Pedestrian Signal System, Accessible	Ea	1	\$5,000.00	\$5,000.00
8200280	TS, Wireless Link, Rem	Ea	2	\$300.00	\$600.00
8200281	TS, Wireless Link, Salv	Ea	2	\$1,100.00	\$2,200.00
8200304	TS, One Way Mast Arm Mtd, FYA (LED)	Ea	4	\$1,750.00	\$7,000.00
8200336	TS, Pedestrian, One Way Bracket Arm Mtd (LED) Countdown	Ea	1	\$1,600.00	\$1,600.00
8200339	TS, Pedestrian, Two Way Bracket Arm Mtd (LED) Countdown	Ea	1	\$1,900.00	\$1,900.00
8200345	TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown	Ea	5	\$1,600.00	\$8,000.00
8200359	TS, One Way Mast Arm Mtd (LED)	Ea	6	\$1,500.00	\$9,000.00
8200388	Bracket, Truss, Rem	Ea	5	\$450.00	\$2,250.00
8200418	Wireless Repeater, Rem	Ea	4	\$300.00	\$1,200.00
8200422	Wireless Vehicle Detection System	Ea	1	\$9,000.00	\$9,000.00
8200423	Wireless Vehicle Detection System, Rem	Ea	1	\$300.00	\$300.00
8200425	Wireless Vehicle Sensor Node	Ea	34	\$1,100.00	\$37,400.00
8200426	Wireless Vehicle Sensor Node, Rem	Ea	30	\$175.00	\$5,250.00
8207001	Mast Arm Pole Fdn, 6 Bolt	Ft	64	\$650.00	\$41,600.00
8207050	Backplate, TS, 3 Sec	Ea	6	\$275.00	\$1,650.00
8207050	Backplate, TS, 4 Sec	Ea	4	\$300.00	\$1,200.00
8207050	Backplate, TS, 5 Sec	Ea	2	\$425.00	\$850.00
8207050	Bracket Arm, 18 Foot, 5 Foot Rise	Ea	5	\$1,420.00	\$7,100.00
8207050	Controller and Cabinet, Base Mount (TS2)	Ea	1	\$23,000.00	\$23,000.00
8207050	Luminaire (LED)	Ea	4	\$1,255.00	\$5,020.00
8207050	Managed Ethernet Switch	Ea	1	\$4,500.00	\$4,500.00
8207050	One Way Street Name Sign, Illuminated (LED), 8 Feet	Ea	4	\$5,950.00	\$23,800.00
8207050	Side Pole Cabinet	Ea	4	\$3,500.00	\$14,000.00
8207050	TS, One Way Mast Arm Mtd, Five Sect (LED)	Ea	2	\$1,750.00	\$3,500.00
8207050	Uninterruptible Power Supply, ITS, Modified	Ea	1	\$8,000.00	\$8,000.00
8207050	Video Surveillance Camera	Ea	1	\$9,000.00	\$9,000.00
8207050	Wireless Repeater, Flex	Ea	4	\$4,000.00	\$16,000.00
				Sub Total:	\$391,435.00
Under Existing Twp Agreement					
8207050	Mast Arm Pole, Cat III with bolts	Ea	4	\$9,000.00	\$36,000.00
8207050	Mast Arm, 45 foot, Cat III	Ea	2	\$11,500.00	\$23,000.00
8207050	Mast Arm, 50 foot, Cat III	Ea	1	\$12,000.00	\$12,000.00
8207051	Mast Arm, 55 foot, Cat III	Ea	1	\$13,370.00	\$13,370.00
				Sub Total:	\$84,370.00
				Total:	\$475,805.00

Oak Valley Right Turn Lanes at Ann Arbor-Saline Rd

Roadway Items

ITEM CODE	DESCRIPTION	UNIT	TOTAL	UNIT PRICE	COST (Fonson)
1500001	Mobilization, Max 10%	LSUM	1	\$17,000.00	\$17,000.00
2040020	Curb and Gutter, Rem	Ft	833	\$15.00	\$12,495.00
2040055	Sidewalk, Rem	Syd	303	\$28.00	\$8,484.00
2050041	Subgrade Undercutting, Type II	Cyd	25	\$110.00	\$2,750.00
2057002	_Roadway Grading	Sta	6.86	\$8,000.00	\$54,880.00
2057021	Subgrade Undercutting, Type II, Modified	Cyd	25	\$50.00	\$1,250.00
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3	\$95.00	\$285.00
2080036	Erosion Control, Silt Fence	Ft	100	\$2.00	\$200.00
2090001	Project Cleanup	LSUM	1	\$6,900.00	\$6,900.00
3027031	_Aggegate Base, Modified	Ton	740	\$30.00	\$22,200.00
4020033	Sewer, Cl A, 12 inch, Tr Det B	Ft	9	\$265.00	\$2,385.00
4021204	Sewer Tap, 12 inch	Ea	1	\$975.00	\$975.00
4030005	Dr Structure Cover, Adj, Case 1	Ea	1	\$775.00	\$775.00
4030010	Dr Structure Cover, Type B	Ea	1	\$750.00	\$750.00
4030050	Dr Structure Cover, Type K	Ea	1	\$995.00	\$995.00
4030200	Dr Structure, 24 inch dia	Ea	1	\$1,840.00	\$1,840.00
4037050	_Water Valve Box, Adj, Case 1	Ea	4	\$570.00	\$2,280.00
4040043	Underdrain, Pipe, Open-Graded, 6 inch	Ft	402	\$15.00	\$6,030.00
4040093	Underdrain Outlet, 6 inch	Ft	10	\$25.00	\$250.00
5010005	HMA Surface, Rem	Syd	127	\$4.50	\$571.50
5010051	HMA, 4E3	Ton	163	\$115.00	\$18,745.00
5010057	HMA, 5E3	Ton	109	\$115.00	\$12,535.00
8020038	Curb and Gutter, Conc, Det F4	Ft	765	\$28.50	\$21,802.50
8030010	Detectable Warning Surface	Ft	69	\$35.00	\$2,415.00
8030030	Curb Ramp Opening, Conc	Ft	79	\$28.50	\$2,251.50
8030036	Sidewalk Ramp, Conc, 6 inch	Sft	987	\$6.50	\$6,415.50
8030044	Sidewalk, Conc, 4 inch	Sft	1962	\$4.75	\$9,319.50
8067011	_Turf Establishment, Performance	Syd	900	\$7.25	\$6,525.00
8100371	Post, Steel, 3 lb	Ft	104	\$15.00	\$1,560.00
8100399	Sign, Type IIB	Sft	40	\$18.50	\$740.00
8110063	Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym	Ea	1	\$185.00	\$185.00
8110343	Rem Spec Mrkg	Sft	724	\$2.95	\$2,135.80
8110405	Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	Ea	4	\$165.00	\$660.00
8110412	Pavt Mrkg, Polyurea, Rt Turn Arrow Sym	Ea	4	\$165.00	\$660.00
8110450	Recessing Pavt Mrkg, Longit	Ft	2380	\$0.58	\$1,380.40
8110451	Recessing Pavt Mrkg, Transv	Sft	1135	\$2.95	\$3,348.25
8110500	Pavt Mrkg, Wet Retrflec Polyurea, 4 inch, White	Ft	50	\$0.95	\$47.50
8110501	Pavt Mrkg, Wet Retrflec Polyurea, 6 inch, White	Ft	430	\$0.99	\$425.70
8110504	Pavt Mrkg, Wet Retrflec Polyurea, 4 inch, Yellow	Ft	1950	\$0.95	\$1,852.50
8117001	_Pavt Mrkg, Wet Reflective. Polyurea, 12 inch, Crosswalk	Ft	597	\$5.95	\$3,552.15
8117001	_Pavt Mrkg, Wet Retrflec Polyurea, 24 inch, Stop Bar	Ft	77	\$12.50	\$962.50
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	15	\$90.00	\$1,350.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	15	\$0.01	\$0.15
8120026	Pedestrian Type II Barricade, Temp	Ea	4	\$150.00	\$600.00
8120140	Lighted Arrow, Type C, Furn	Ea	1	\$600.00	\$600.00
8120141	Lighted Arrow, Type C, Oper	Ea	1	\$0.01	\$0.01
8120170	Minor Traf Devices	LSUM	1	\$13,000.00	\$13,000.00
8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	4550	\$0.65	\$2,957.50
8120246	Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, Yellow, Temp	Ft	1425	\$1.85	\$2,636.25
8120250	Plastic Drum, High Intensity, Furn	Ea	125	\$20.00	\$2,500.00
8120251	Plastic Drum, High Intensity, Oper	Ea	125	\$0.01	\$1.25
8120265	Pavt Mrkg, Wet Reflective, Type R, Tape, 24 inch, Stop Bar	Ft	4	\$12.95	\$51.80
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	325	\$5.25	\$1,706.25
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	325	\$0.01	\$3.25
8127001	_Pavt Mrkg, Wet Reflective, Type R, Tape, 6 inch, White, Temp	Ft	160	\$2.75	\$440.00
8257050	_Sprinkler Head, Salv, and Reset	Ea	15	\$138.00	\$2,070.00
8507001	_Irrigation Piping	Ft	350	\$20.00	\$7,000.00

Roadway Total: \$275,730.76

Previously Approved Signal Items \$84,370.00

Remaining Signal Total \$391,435.00

Roadway + Remaining Signal Total \$667,165.76

Total Construction \$751,535.76

CE Costs (12%) \$90,184.29

ROW Estimate \$15,000.00

Total Township Costs \$856,720.05