

Bailey Excavating, Inc. Evergreen Civil, LLC E.T. MacKenzie Company
1073 Toro Drive 143 Cadycentre #303 6400 Jackson Road
Jackson, MI 49201 Northville, MI 48167 Ann Arbor, MI 48103

Engineer's Estimate

Description	Unit	Estimated		Engineer's Estimate		Bailey Excavating, Inc.		Evergreen Civil, LLC		E.T. MacKenzie Company	
		Quantity	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost	
Protective Fencing	LF	1710.00	\$3.00	\$5,130.00	\$4.00	\$6,840.00	\$5.18	\$8,857.80	\$2.70	\$4,617.00	
Tree Removal, 8" or Larger	Each	2.00	\$400.00	\$800.00	\$1,200.00	\$2,400.00	\$385.00	\$770.00	\$1,850.00	\$3,700.00	
Exploratory Excavation (0-10' deep)	EA	1.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$2,878.92	\$2,878.92	\$2,550.00	\$2,550.00	
General Conditions, Max. \$115,000	LS	1.00	\$115,000.00	\$115,000.00	\$95,000.00	\$95,000.00	\$76,266.60	\$76,266.60	\$115,000.00	\$115,000.00	
Digital Audio Visual Coverage	LS	1.00	\$2,500.00	\$2,500.00	\$2,000.00	\$2,000.00	\$1,853.50	\$1,853.50	\$10,000.00	\$10,000.00	
Minor Traffic Devices, Max \$15,000	LS	1.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$9,237.26	\$9,237.26	\$15,000.00	\$15,000.00	
Clean-Up & Restoration, Special	LS	1.00	\$20,000.00	\$20,000.00	\$10,000.00	\$10,000.00	\$86,496.96	\$86,496.96	\$6,490.85	\$6,490.85	
"No Parking" Signs	Each	52.00	\$18.00	\$936.00	\$70.00	\$3,640.00	\$57.55	\$2,992.60	\$50.00	\$2,600.00	
Storm Sewer Bulkhead and Abandonment	LS	1.00	\$8,000.00	\$8,000.00	\$10,500.00	\$10,500.00	\$13,685.13	\$13,685.13	\$21,400.00	\$21,400.00	
Remove sanitary sewer lead	LF	50.00	\$30.00	\$1,500.00	\$10.00	\$500.00	\$151.40	\$7,570.00	\$12.65	\$632.50	
Special Manhole (STMH-3) with Vortex Valve	EA	1.00	\$12,000.00	\$12,000.00	\$8,500.00	\$8,500.00	\$10,382.73	\$10,382.73	\$12,800.00	\$12,800.00	
Flexible Pipe Couplings	EA	4.00	\$1,200.00	\$4,800.00	\$650.00	\$2,600.00	\$981.75	\$3,927.00	\$880.00	\$3,520.00	
Water Main Pipe Abandonment	LS	1.00	\$8,000.00	\$8,000.00	\$5,000.00	\$5,000.00	\$7,952.03	\$7,952.03	\$59,800.00	\$59,800.00	
Fire Hydrant Assembly Abandonment	EA	3.00	\$500.00	\$1,500.00	\$800.00	\$2,400.00	\$771.40	\$2,314.20	\$700.00	\$2,100.00	
Temporary Water Main Line Stop	EA	1.00	\$5,500.00	\$5,500.00	\$4,000.00	\$4,000.00	\$7,268.72	\$7,268.72	\$5,750.00	\$5,750.00	
6-Inch Wrapped Underdrain	LF	3085.00	\$4.00	\$12,340.00	\$6.00	\$18,510.00	\$13.31	\$41,061.35	\$11.65	\$35,940.25	
Machine Grading, Modified	Sta	20.00	\$3,000.00	\$60,000.00	\$4,350.00	\$87,000.00	\$6,338.86	\$126,777.20	\$5,750.00	\$115,000.00	
Subgrade Undercutting - Type II	CY	100.00	\$12.00	\$1,200.00	\$13.40	\$1,340.00	\$34.57	\$3,457.00	\$16.05	\$1,605.00	
HMA Pavement Top – 5E3	Ton	40.00	\$88.00	\$3,520.00	\$126.00	\$5,040.00	\$160.60	\$6,424.00	\$155.00	\$6,200.00	
HMA Pavement Leveling – 4E3	Ton	80.00	\$80.00	\$6,400.00	\$84.00	\$6,720.00	\$115.50	\$9,240.00	\$110.00	\$8,800.00	
HMA Pavement Leveling/Top – 4E03	Ton	770.00	\$88.00	\$67,760.00	\$80.00	\$61,600.00	\$79.20	\$60,984.00	\$76.50	\$58,905.00	
HMA Pavement Base – 3E03	Ton	1150.00	\$80.00	\$92,000.00	\$80.00	\$92,000.00	\$72.60	\$83,490.00	\$69.65	\$80,097.50	
Concrete Curb or Curb and Gutter - All Types	LF	3490.00	\$14.00	\$48,860.00	\$16.30	\$56,887.00	\$17.05	\$59,504.50	\$17.30	\$60,377.00	
Concrete Curb or Curb and Gutter - All Types (High Early)	LF	460.00	\$16.00	\$7,360.00	\$18.40	\$8,464.00	\$19.25	\$8,855.00	\$23.95	\$11,017.00	
4 Inch Concrete Sidewalk	SF	500.00	\$4.00	\$2,000.00	\$6.05	\$3,025.00	\$7.38	\$3,690.00	\$5.85	\$2,925.00	
6 Inch Concrete Sidewalk Ramp	SF	300.00	\$6.00	\$1,800.00	\$6.05	\$1,815.00	\$7.27	\$2,181.00	\$8.05	\$2,415.00	
6 Inch Concrete Drive - High Early	SF	4000.00	\$5.00	\$20,000.00	\$5.00	\$20,000.00	\$5.70	\$22,800.00	\$7.00	\$28,000.00	
Detectable Warning, Cast In Place	SF	80.00	\$15.00	\$1,200.00	\$27.30	\$2,184.00	\$28.60	\$2,288.00	\$28.10	\$2,248.00	
Sand Subbase Course, Class II - C.I.P.	CY	3000.00	\$12.00	\$36,000.00	\$18.70	\$56,100.00	\$22.98	\$68,940.00	\$13.95	\$41,850.00	
21AA Limestone - C.I.P.	CY	100.00	\$25.00	\$2,500.00	\$37.60	\$3,760.00	\$50.23	\$5,023.00	\$33.00	\$3,300.00	
Aggregate Base Course, 21AA - C.I.P.	CY	2000.00	\$25.00	\$50,000.00	\$35.60	\$71,200.00	\$52.51	\$105,020.00	\$33.00	\$66,000.00	
Remove HMA Pavement	SY	6900.00	\$4.00	\$27,600.00	\$4.00	\$27,600.00	\$8.85	\$61,065.00	\$2.70	\$18,630.00	
Remove Concrete Curb or Curb and Gutter - Any Type	LF	4150.00	\$6.00	\$24,900.00	\$6.00	\$24,900.00	\$7.17	\$29,755.50	\$4.95	\$20,542.50	
Remove Concrete Sidewalk and Drive - Any Thickness	SF	4000.00	\$6.00	\$24,000.00	\$1.00	\$4,000.00	\$2.31	\$9,240.00	\$1.35	\$5,400.00	
Plastic Drum - Lighted, Furnish and Operate	Each	85	\$25.85	\$2,197.25	\$30.00	\$2,550.00	\$27.50	\$2,337.50	\$20.90	\$1,776.50	
Type III Lighted Barricade, Furnish & Operate	Each	14	\$152.00	\$2,128.00	\$120.00	\$1,680.00	\$385.00	\$5,390.00	\$95.05	\$1,330.70	
Temporary Type B Signs	SF	700	\$3.50	\$2,450.00	\$6.50	\$4,550.00	\$5.50	\$3,850.00	\$3.15	\$2,205.00	
Sand Filter (standard depth with ADS SC-310 storm chamber)	SF	6000.00	\$20.00	\$120,000.00	\$27.05	\$162,300.00	\$18.41	\$110,460.00	\$35.50	\$213,000.00	
Sand filter Catchbasin Structure and Grate	EA	15.00	\$3,000.00	\$45,000.00	\$1,650.00	\$24,750.00	\$1,623.93	\$24,358.95	\$4,100.00	\$61,500.00	
Stop Gate and Control Orifice	EA	15.00	\$1,000.00	\$15,000.00	\$750.00	\$11,250.00	\$3,261.48	\$48,922.20	\$3,000.00	\$45,000.00	
Open Cell Pavers	SF	800.00	\$33.00	\$26,400.00	\$8.00	\$6,400.00	\$15.91	\$12,728.00	\$105.00	\$84,000.00	
Additional Storage Aggregate	CY	200.00	\$80.00	\$16,000.00	\$37.20	\$7,440.00	\$54.29	\$10,858.00	\$49.05	\$9,810.00	
Sand FilterTurf Hydroseeding	SY	1000.00	\$20.00	\$20,000.00	\$3.00	\$3,000.00	\$1.65	\$1,650.00	\$13.45	\$13,450.00	
Native Seeding Mixture, Complete	SY	300.00	\$30.00	\$9,000.00	\$5.00	\$1,500.00	\$4.40	\$1,320.00	\$24.30	\$7,290.00	
Temporary Erosion Control Seeding Mixture AR, Complete	SY	1500.00	\$10.00	\$15,000.00	\$1.00	\$1,500.00	\$4.40	\$6,600.00	\$9.80	\$14,700.00	

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36" CL IV RCP Storm Sewer Pipe, Trench Detail I	LF	630.00	\$150.00	\$94,500.00	\$162.00	\$102,060.00	\$174.43	\$109,890.90	\$120.00	\$75,600.00	
30" CL IV RCP Storm Sewer Pipe, Trench Detail I	LF	30.00	\$125.00	\$3,750.00	\$91.00	\$2,730.00	\$163.57	\$4,907.10	\$93.35	\$2,800.50	
27" CL IV RCP Storm Sewer Pipe, Trench Detail I	LF	291.00	\$120.00	\$34,920.00	\$240.00	\$69,840.00	\$149.78	\$43,585.98	\$115.00	\$33,465.00	
24" CL IV RCP Storm Sewer Pipe, Trench Detail I	LF	37.00	\$100.00	\$3,700.00	\$73.00	\$2,701.00	\$83.44	\$3,087.28	\$78.85	\$2,917.45	
12" CL IV RCP Storm Sewer Pipe, Trench Detail I	LF	837.00	\$75.00	\$62,775.00	\$62.50	\$52,312.50	\$57.79	\$48,370.23	\$62.50	\$52,312.50	
4 inch SDR 35 PVC Sanitary Lead, Trench Detail I	LF	25.00	\$30.00	\$750.00	\$66.00	\$1,650.00	\$100.45	\$2,511.25	\$58.80	\$1,470.00	
6 inch SDR 35 PVC Sanitary Lead, Trench Detail I	LF	25.00	\$30.00	\$750.00	\$70.00	\$1,750.00	\$110.36	\$2,759.00	\$60.75	\$1,518.75	
Type I Manhole, 4-foot diameter	EA	7.00	\$5,500.00	\$38,500.00	\$2,100.00	\$14,700.00	\$1,641.51	\$11,490.57	\$3,000.00	\$21,000.00	
Type I Manhole, 6-foot diameter	EA	2.00	\$4,500.00	\$9,000.00	\$2,750.00	\$5,500.00	\$3,061.45	\$6,122.90	\$4,700.00	\$9,400.00	
Type II Manhole, 5-foot diameter	EA	5.00	\$4,000.00	\$20,000.00	\$3,400.00	\$17,000.00	\$3,188.87	\$15,944.35	\$4,950.00	\$24,750.00	
Type II Manhole, 6-foot diameter	EA	1.00	\$4,500.00	\$4,500.00	\$4,625.00	\$4,625.00	\$4,530.16	\$4,530.16	\$5,750.00	\$5,750.00	
Type II Manhole, 8-foot diameter	EA	2.00	\$8,000.00	\$16,000.00	\$5,230.00	\$10,460.00	\$6,186.62	\$12,373.24	\$7,100.00	\$14,200.00	
Inlet-Junction Chamber	EA	2.00	\$5,000.00	\$10,000.00	\$2,020.00	\$4,040.00	\$2,666.10	\$5,332.20	\$3,250.00	\$6,500.00	
Single Inlet	EA	10.00	\$1,500.00	\$15,000.00	\$1,670.00	\$16,700.00	\$1,322.16	\$13,221.60	\$2,000.00	\$20,000.00	
Double Inlet	EA	2.00	\$4,000.00	\$8,000.00	\$4,200.00	\$8,400.00	\$3,369.96	\$6,739.92	\$4,250.00	\$8,500.00	
8 inch, Class 50 DIP w/polywrap, Trench Detail I	LF	1750.00	\$70.00	\$122,500.00	\$87.35	\$152,862.50	\$86.25	\$150,937.50	\$71.30	\$124,775.00	
6 inch Class 50 DIP w/polywrap, Trench Detail I	LF	100.00	\$60.00	\$6,000.00	\$81.00	\$8,100.00	\$105.52	\$10,552.00	\$59.70	\$5,970.00	
8" 11.25° Bend	Each	2.00	\$600.00	\$1,200.00	\$565.00	\$1,130.00	\$668.97	\$1,337.94	\$1,000.00	\$2,000.00	
8" 22.5° Bend	Each	2.00	\$650.00	\$1,300.00	\$575.00	\$1,150.00	\$689.52	\$1,379.04	\$1,000.00	\$2,000.00	
8" 45° Bend	Each	8.00	\$600.00	\$4,800.00	\$585.00	\$4,680.00	\$585.34	\$4,682.72	\$1,000.00	\$8,000.00	
8" 90° Bend	Each	4.00	\$700.00	\$2,800.00	\$630.00	\$2,520.00	\$797.39	\$3,189.56	\$1,000.00	\$4,000.00	
8" x 6" Reducer	Each	2.00	\$500.00	\$1,000.00	\$515.00	\$1,030.00	\$449.35	\$898.70	\$550.00	\$1,100.00	
6" x 6" x 6" Tee	Each	2.00	\$800.00	\$1,600.00	\$2,135.00	\$4,270.00	\$383.85	\$767.70	\$1,600.00	\$3,200.00	
8" x 8" x 8" Tee	Each	6.00	\$800.00	\$4,800.00	\$1,500.00	\$9,000.00	\$926.69	\$5,560.14	\$1,600.00	\$9,600.00	
8" x 8" x 6" Tee	Each	3.00	\$900.00	\$2,700.00	\$920.00	\$2,760.00	\$516.43	\$1,549.29	\$1,600.00	\$4,800.00	
Fire Hydrant Assembly	EA	3.00	\$5,000.00	\$15,000.00	\$4,350.00	\$13,050.00	\$4,511.14	\$13,533.42	\$3,900.00	\$11,700.00	
8" Gate Valve-in Box	EA	2.00	\$3,000.00	\$6,000.00	\$1,540.00	\$3,080.00	\$2,182.65	\$4,365.30	\$1,950.00	\$3,900.00	
8" Gate Valve-in Well	EA	5.00	\$4,000.00	\$20,000.00	\$4,550.00	\$22,750.00	\$4,419.84	\$22,099.20	\$5,500.00	\$27,500.00	
12" x 8" Tapping Sleeve & Valve-in-Well	EA	1.00	\$6,000.00	\$6,000.00	\$6,500.00	\$6,500.00	\$9,313.92	\$9,313.92	\$11,000.00	\$11,000.00	
Excavate & Backfill for Water Service Tap and Lead	LF	620.00	\$20.00	\$12,400.00	\$48.00	\$29,760.00	\$57.27	\$35,507.40	\$54.05	\$33,511.00	
Structure Covers	Lbs	4000.00	\$2.00	\$8,000.00	\$1.50	\$6,000.00	\$2.86	\$11,440.00	\$1.45	\$5,800.00	
Adjust Structure Cover	EA	10.00	\$500.00	\$5,000.00	\$350.00	\$3,500.00	\$818.93	\$8,189.30	\$455.00	\$4,550.00	
Hot-Applied, Thermoplastic Pavement Marking, 4" White	LF	50.00	\$2.00	\$100.00	\$5.00	\$250.00	\$5.34	\$267.00	\$3.70	\$185.00	
Hot-Applied, Thermoplastic Pavement Marking, 4" Yellow	LF	500.00	\$2.00	\$1,000.00	\$5.00	\$2,500.00	\$5.34	\$2,670.00	\$3.70	\$1,850.00	
Engineer's Estimate				\$1,508,626.25		\$1,537,806.00		\$1,759,830.46		\$1,834,900.00	