

ENGINEER'S PRELIMINARY COST ESTIMATE

Wednesday, December 20, 2023

Village of Kronenwetter - Kronenwetter Dr. Reconstruction PHASE 1 (no Bridge Work)

Approx. 8,446 LF Road, existing 30 ft wide pavement

OVERALL PROJECT

STREET RECONSTRUCTION & DRAINAGE INFRASTRUCTURE



	#	Item	Item Quantity	Units	Unit Cost	Total Cost
Project Development Costs						
	a	Comprehensive Mapping & Surveying To-Date	----	---	----	----
	b	Planning, Coordination, Engineering & Administration To-Date	----	---	----	----
	c	Legal Services To-Date	----	---	----	----
	d	Title Services To-Date	----	---	----	----
	e	Land Acquisition (Prof. Fees & Land Rights) Estimate	----	---	----	----
	T1	Subtotal Project Development Costs				\$0
Roadway Construction Costs						
	1	Erosion Control Items & Maintenance During Construction	1	Lump Sum	\$10,000.00	\$10,000
	2	Unclassified excavation for Roadway	12,180	CY	\$15.00	\$182,700
	3	Remove Asphalt Pavement, Main Roadway	16,940	SY	\$5.00	\$84,700
	4	Remove Asphalt Pavement, Side streets & Driveways	3,290	SY	\$5.00	\$16,450
	5	Remove Concrete Driveway	165	SY	\$7.00	\$1,155
	6	Remove existing culverts	9	EA	\$500.00	\$4,500
	7	Sawcut Asphalt Pavement	405	LF	\$1.50	\$608
	8	Topsoil removal	10,000	SY	\$2.50	\$25,000
	9	Unclassified Excavation for Driveways	115	CY	\$10.00	\$1,150
	10	Remove beam guard, Re-install	1	LS	\$5,000.00	\$5,000
	11	Medium Rip Rap over Fabric for Storm Sewer Endwalls	150	CY	\$75.00	\$11,250
	12	3/4" Crushed Aggregate for Driveway as Needed	100	CY	\$50.00	\$5,000
	13	18" Breaker Run	10000	CY	\$15.00	\$150,000
	14	Geogrid	28154	SY	\$3.00	\$84,462
	15	Open Graded Drainage Layer (Assume 50%)	14000	SY	\$20.00	\$280,000
	16	1.5" Crushed Aggregate Base Course, 8" Compacted-Road & Intersections	28154	SY	\$8.00	\$225,232
	17	HMA Asphalt Pavement 1.5" Surface Course-Intersections	28154	SY	\$13.00	\$366,002
	18	HMA Asphalt Pavement 2.5" Binder Course-Intersections	28154	SY	\$15.00	\$422,310
	19	Hot Tar Butt Joint Sealer	330	LF	\$5.00	\$1,650
	20	3/4" Crushed Aggregate for Road Shoulder, 2' wide x 6" thick	380	CY	\$50.00	\$19,000
	21	6" Concrete Driveway	165	SY	\$25.00	\$4,125
	22	HMA Asphalt-2" for path & driveways	150	SY	\$20.00	\$3,000
	23	Topsoil, Seed & E-Mat all Disturbed areas,	18768	SY	\$2.75	\$51,612
	24	Install Base, Pole, & Fixture for Street Lights (Light Type Assumed)	20	EA	\$4,500.00	\$90,000
	25	Electrical in Conduit for Street Lights	20	LS	\$ 1,000.00	\$20,000
	26	Install 12" CMP & endwalls - Avg 40 LF	9	EA	\$ 1,500.00	\$13,500
	27	Traffic Control	1	LS	\$ 2,000.00	\$2,000
	28	Reset Valve lids & Manhole Covers	1	LS	\$ 5,000.00	\$5,000
	T2	SubTotal Road Construction & Utility Costs				\$2,085,000

Percentage Allocations On	A1	Performance & Payment bonds	2	%	----	\$41,700
Construction Subtotal	A2	Mobilization/Demobilization	3	%	----	\$62,600
	A3	Funding Requirements	0.0	%	----	\$0
	A4	Construction Contingencies	20	%	----	\$417,000
	A5	Geotechnical	1	%	----	\$20,900
	A6	Engineering, Permitting, Coordination, Construction Admin.	4	%	----	\$83,400
	A7	Surveying (Staking) & Legal	2	%	----	\$41,700
	T3	Subtotal on Construction Allocations				\$700,000
	T4	TOTAL PROJECT SUBTOTAL				\$2,800,000