

ENGINEER'S PRELIMINARY COST ESTIMATE

Wednesday, December 20, 2023

Village of Kronenwetter - Kronenwetter Dr. Reconstruction PHASE 2

Approx. 11,351 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	13,455	CY	\$15.00	\$201,825
	3	Remove Asphalt Pavement, Main Roadway	31,600	SY	\$5.00	\$158,000
	4	Remove Asphalt Pavement, Side streets & Driveways	5,000	SY	\$5.00	\$25,000
	5	Remove Concrete Driveway	50	SY	\$7.00	\$350
	6	Remove existing culverts	4	EA	\$1,000.00	\$4,000
	7	Sawcut Asphalt Pavement	390	LF	\$1.50	\$585
	8	Topsoil removal	3,000	SY	\$2.50	\$7,500
	9	Unclassified Excavation for Driveways	150	CY	\$10.00	\$1,500
	10	Remove trees	3	LS	\$1,000.00	\$3,000
	11	Medium Rip Rap over Fabric for Storm Sewer Endwalls	100	CY	\$75.00	\$7,500
	12	3/4" Crushed Aggregate for Driveway as Needed	100	CY	\$50.00	\$5,000
	13	18" Breaker Run	13455	CY	\$15.00	\$201,825
	14	Geogrid	31600	SY	\$3.00	\$94,800
	15	Open Graded Drainage Layer (Assume 50%)	6727	SY	\$20.00	\$134,540
	16	1.5" Crushed Aggregate Base Course, 8" Compacted-Road & Intersections	31600	SY	\$8.00	\$252,800
	17	HMA Asphalt Pavement 2" Surface Course-Intersections	31600	SY	\$15.00	\$474,000
	18	HMA Asphalt Pavement 2" Binder Course-Intersections	31600	SY	\$12.00	\$379,200
	19	Hot Tar Butt Joint Sealer	390	LF	\$5.00	\$1,950
	20	3/4" Crushed Aggregate for Road Shoulder, 2' wide x 6" thick	840	CY	\$50.00	\$42,000
	21	Seal Coat portion 1,860 LF.	6196	SY	\$10.00	\$61,960
	22	HMA Asphalt-2" for path & driveways	500	SY	\$20.00	\$10,000
	23	Topsoil, Seed & E-Mat all Disturbed areas,	12612	SY	\$2.75	\$34,683
	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 30" CMP & endwalls - Avg 40 LF	4	EA	\$ 2,500.00	\$10,000
	27	Traffic Control	1	LS	\$ 5,000.00	\$5,000
	28	Reset Valve lids & Manhole Covers	1	LS	\$ 5,000.00	\$5,000
	T2	SubTotal Road Construction & Utility Costs				\$2,200,000

Percentage Allocations On	A1	Performance & Payment bonds	2	%	----	\$44,000
Construction Subtotal	A2	Mobilization/Demobilization	3	%	----	\$66,000
	A3	Funding Requirements	0.5	%	----	\$11,000
	A4	Construction Contingencies	20	%	----	\$440,000
	A5	Geotechnical	1	%	----	\$22,000
	A6	Engineering, Permitting, Coordination, Construction Admin.	4	%	----	\$88,000
	A7	Surveying (Staking) & Legal	3	%	----	\$66,000
	T3	Subtotal on Construction Allocations				\$700,000
	T4	TOTAL PROJECT SUBTOTAL				\$2,900,000