

ENGINEER'S PRELIMINARY COST ESTIMATE
Wednesday, January 31, 2024
Village of Kronenwetter - LS8 & LS4 Project



OVERALL PROJECT - LS4 Upgrade, Forcemain, Generator, Interceptors

	#	Item	Item Quantity	Units	Unit Cost	Total Cost
Project Development Costs	a	Comprehensive Mapping & Surveying To-Date	----	---	----	----
	b	Planning, Coordination, Engineering & Administration To-Date	----	---	----	\$40,000
	c	Legal Services To-Date	----	---	----	----
	d	Title Services To-Date	----	---	----	----
	e	Land Acquisition (Prof. Fees & Land Rights) Estimate	----	---	----	----
	T1	Subtotal Project Development Costs				\$40,000
Construction Costs	1	Erosion Control Items & Maintenance During Construction	1	Lump Sum	\$2,500.00	\$2,500
	2	Unclassified Excavation-Non Paved Areas	25	CY	\$15.00	\$375
	3	Remove Asphalt Pavement, Driveway	200	SY	\$5.00	\$1,000
	4	Sawcut Asphalt Pavement	250	LF	\$1.50	\$375
	5	Topsoil removal	50	SY	\$2.50	\$125
	6	8 ft dia mh w/lid & base	1	LS	\$40,000.00	\$40,000
	7	8 ft wet well liftstation Complete	1	LS	\$175,000.00	\$175,000
	8	Excavation, installation, dewatering	1	LS	\$170,000.00	\$170,000
	9	Granular backfill/ liftstation & MH's	350	CY	\$25.00	\$8,750
	10	Generator - 60 KW	1	EA	\$50,000.00	\$50,000
	11	Electrician & Controls - Complete	1	LS	\$25,000.00	\$25,000
	12	Abandon ex. Ls/ electrical complete	1	LS	\$20,000.00	\$20,000
	13	3/4" Crushed Aggregate road base 12"	121	SY	\$80.00	\$9,680
	14	HMA Asphalt Pavement 2" Surface Course-Intersections	121	SY	\$24.00	\$2,904
	15	HMA Asphalt Pavement 2" Binder Course-Intersections	121	SY	\$18.00	\$2,178
	16	Hot Tar Butt Joint Sealer	25	LF	\$5.00	\$125
	17	3/4" Crushed Aggregate for Drive Shoulder, 2' wide x 6" thick	10	CY	\$50.00	\$500
	18	Concrete gen pad(10x15)/ Elec pad(5x8)	6.5	CY	\$200.00	\$1,300
	19	Topsoil, Seed & E-Mat all Disturbed areas,	325	SY	\$4.00	\$1,300
	20	Install Base, Pole, & Fixture for Street Lights (Light Type Assumed)	1	EA	\$4,500.00	\$4,500
	21	Electrical in Conduit for Street Lights	1	LS	\$1,500.00	\$1,500
	22	12" PVC SDR 21 type	45	LF	\$50.00	\$2,250
	23	6" FM D.I. pipe	15	LF	\$30.00	\$450
	24	6" FM PE pipe	80	LF	\$65.00	\$5,200
	25	6" MJ 45 Deg Bends	2	Ea	\$1,500.00	\$3,000
	26	6" Flow meter w/manhole	1	LS	\$3,000.00	\$3,000
	27	6" MJ 90 Deg Bend	1	Ea	\$1,900.00	\$1,900
	28	Connect to ex. 4" FM	1	LS	\$500.00	\$500
	29	Unclassified Excavation-Non Paved Areas	200	CY	\$15.00	\$3,000
	30	Remove Asphalt Pavement, Driveway	3,501	SY	\$5.00	\$17,505
	31	Sawcut Asphalt Pavement	250	LF	\$1.50	\$375
	32	Topsoil removal	1,685	SY	\$2.50	\$4,213
	33	3/4" Crushed Aggregate for roadway, 8" thick	300	SY	\$80.00	\$24,000
	34	HMA Asphalt Pavement 2" Surface Course-Intersections	300	SY	\$24.00	\$7,200
	35	HMA Asphalt Pavement 2" Binder Course-Intersections	300	SY	\$18.00	\$5,400
	36	Hot Tar Butt Joint Sealer	50	LF	\$5.00	\$250
	37	3/4" Crushed Aggregate for Drive Shoulder, 2' wide x 6" thick	97	CY	\$50.00	\$4,850
	38	Topsoil, Seed & E-Mat all Disturbed areas,	1685	SY	\$4.00	\$6,740
	39	Connect to ex. 4" FM	1	LS	\$500.00	\$500
	40	15" PVC SDR 26	2643	LS	\$55.00	\$145,365
	41	8" PVC SDR 26 - Reconnect	80	LF	\$35.00	\$2,800
	42	15" PVC SDR 26-Collection	317	LF	\$55.00	\$17,435
	43	4' DIA MH W/CASTING - REPLACEMENTS	8	EA	\$5,000.00	\$40,000
	44	Boring under hwy & Railroad tracks W/ 24" Casing Pipe	150	LF	\$120.00	\$18,000
	45	Connect Existing Sewers	4	Ea	\$500.00	\$2,000
	46	Replace 4" fm with 6" PE	3500	LF	\$45.00	\$157,500
	47	Abandon ex 4" fm	1	LS	\$10,000.00	\$10,000
	48	Push 6" PE through carrier under tracks	1	LS	\$7,500.00	\$7,500
	49	Gas allowance - working around lines	1	LS	\$5,000.00	\$5,000
	50	Traffic control	1	LS	\$10,000.00	\$10,000
	51	electrical allowance	1	LS	\$20,000.00	\$20,000
	52	Gas allowance	1	LS	\$12,000.00	\$12,000
	53	Internet allowance	1	LS	\$10,000.00	\$10,000
	T3	SubTotal Road Construction & Utility Costs				\$1,065,045
Percentage Allocations On Construction Subtotal	A1	Performance & Payment bonds	2	%	----	\$22,200
	A2	Mobilization/Demobilization	3	%	----	\$33,200
	A3	Funding Requirements	0.0	%	----	\$0
	A4	Construction Contingencies	10	%	----	\$110,600
	A5	Geotechnical	0	%	----	\$0
	A6	Engineering, Permitting, Coordination, Construction Admin.	4	%	----	\$44,300
	A7	Surveying (Staking) & Legal	3	%	----	\$33,200
	T4	Subtotal on Construction Allocations				\$243,500
	T5	TOTAL PROJECT SUBTOTAL				\$1,348,545