

**ENGINEER'S PRELIMINARY COST ESTIMATE**  
**Monday, April 8, 2024**  
**Village of Kronenwetter - Lift Station 8 Project**



**OVERALL PROJECT - Lift Station, Forcemain, Power, Generator, Interceptor**

	#	Item	Item Quantity	Units	Unit Cost	Total Cost
<b>Project Development Costs</b>	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	TID Update or Amendment Services (Confirm)	---	---	---	\$10,000
	f	Land Acquisition (Prof. Fees & Land Rights) Estimate	---	---	---	---
	<b>T1</b>	<b>Subtotal Project Development Costs</b>				<b>\$50,000</b>
<b>Construction Costs</b>	1	Erosion Control Items & Maintenance During Construction	1	LS	\$2,500.00	\$2,500
	2	Traffic Control/Road Detours	1	LS	\$10,000.00	\$10,000
	3	Unclassified Excavation-Non Paved Areas	110	CY	\$15.00	\$1,650
	4	Remove Asphalt Pavement, Driveway (LS site)	360	SY	\$5.00	\$1,800
	5	Sawcut Asphalt Pavement (LS site & interceptor)	93	LF	\$1.50	\$140
	6	Topsoil removal (LS Site)	415	SY	\$2.50	\$1,038
	7	8 ft dia mh w/lid & base	1	LS	\$40,000.00	\$40,000
	8	8 ft wet well liftstation Complete	1	LS	\$170,000.00	\$170,000
	9	Excavation, installation, dewatering	1	LS	\$190,000.00	\$190,000
	10	Granular backfill/ liftstation & MH's	300	CY	\$25.00	\$7,500
	11	Generator - 40 KW	1	EA	\$40,000.00	\$40,000
	12	Generator Electrician & Controls - Complete	1	LS	\$20,000.00	\$20,000
	13	Abandon ex. Ls/ electrical complete	1	LS	\$20,000.00	\$20,000
	14	Abandon existing Structure & Pad	1	LS	\$5,000.00	\$5,000
	15	3/4" Crushed Aggregate for roadway, 8" thick (LS site)	32	SY	\$15.00	\$480
	16	18" Breaker Run for Roadway (LS site)	32	SY	\$20.00	\$640
	17	HMA Asphalt Pavement 2" Surface Course - (LS site)	32	SY	\$22.00	\$704
	18	HMA Asphalt Pavement 2" Binder Course- (LS site)	32	SY	\$20.00	\$640
	19	Hot Tar Butt Joint Sealer (LS site)	14	LF	\$5.00	\$70
	20	3/4" Crushed Aggregate for Drive Shoulder, 2' wide x 6" thick (LS site)	5	CY	\$50.00	\$250
	21	Concrete gen pad/ Elec pad	7	CY	\$300.00	\$2,100
	22	Topsoil, Seed & E-Mat all Disturbed areas (LS site)	502	SY	\$4.00	\$2,008
	23	Install Base, Pole, & Fixture for Street Lights (Light Type Village Approved)	1	EA	\$4,500.00	\$4,500
	24	Electrical in Conduit for Street Lights	1	LS	\$ 1,500.00	\$1,500
	25	12" D.I san sewer	12	LF	\$ 50.00	\$600
	26	12" PVC SDR 21 type	49	LF	\$ 50.00	\$2,450
	27	6" FM D.I. pipe	15	LF	\$ 30.00	\$450
	28	6" FM PE pipe	76	LF	\$ 40.00	\$3,040
	29	Connect to new 6" FM	1	LS	\$ 500.00	\$500
	30	6" FM PE Pipe Bursting, Pipe only	3693	LF	\$ 12.00	\$44,316
	31	Pipe Bursting 4" to 6", Including Bypass Drag Line/Temporary Pumping	3693	LF	\$ 30.00	\$110,790
	32	Connect 6" FM to existing mh, core larger opening.	1	LS	\$ 2,500.00	\$2,500
	32	8" PVC SDR 26 - Reconnect (Interceptor)	80	LF	\$35.00	\$2,800
	33	10" PVC SDR 26 (Interceptor)	1496	LF	\$55.00	\$82,280
	34	Replace ex 4' with new 5' DIA mh w/casting - (Interceptor)	1	EA	\$5,000.00	\$5,000
	35	Recore mh & replace benches (Interceptor)	9	LS	\$5,000.00	\$45,000
	36	Connect Existing Sewers (Interceptor)	4	Ea	\$500.00	\$2,000
	37	Topsoil removal (Interceptor)	1,685	SY	\$2.50	\$4,213
	38	3/4" Crushed Aggregate for roadway, 8" thick (Interceptor, driveways)	3050	SY	\$80.00	\$244,000
	39	HMA Asphalt Pavement 2" Surface Course-(Interceptor, driveways)	3050	SY	\$24.00	\$73,200
	40	HMA Asphalt Pavement 2" Binder Course-(Interceptor, driveways)	3050	SY	\$18.00	\$54,900
	41	Hot Tar Butt Joint Sealer (Interceptor, driveways)	50	LF	\$5.00	\$250
	42	3/4" Crushed Aggregate for Drive Shoulder, 2' wide x 6" thick (Intercetor)	150	CY	\$50.00	\$7,500
	43	Topsoil, Seed & E-Mat all Disturbed areas (Interceptor)	1685	SY	\$4.00	\$6,740
	44	3-Phase Power Extension and Setup	1	LS	\$ 60,000.00	\$60,000
	45	Abandon existing Structure & pads	1	LS	\$ 5,000.00	\$5,000
	46	Connect Existing Sewers	2	Ea	\$ 1,000.00	\$2,000
	47	Gas allowance	1	LS	\$ 20,000.00	\$20,000
	48	Internet allowance	1	LS	\$ 10,000.00	\$10,000
	49	WisDOT Fence Removal, Install	50	LF	\$ 50.00	\$2,500
	<b>T2</b>	<b>SubTotal Road Construction &amp; Utility Costs</b>				<b>\$1,314,548</b>
<b>Percentage Allocations On Construction Subtotal</b>	A1	Performance & Payment bonds	2	%	---	\$27,300
	A2	Mobilization/Demobilization	3	%	---	\$41,000
	A3	Funding Requirements	0.0	%	---	\$0
	A4	Construction Contingencies	10	%	---	\$136,500
	A5	Geotechnical	0	%	---	\$0
	A6	Engineering, Permitting, Coordination, Construction Admin. Going Forward	4	%	---	\$54,600
	A7	Surveying (Staking) & Legal	2	%	---	\$27,300
	<b>T3</b>	<b>Subtotal on Construction Allocations</b>				<b>\$286,700</b>
	<b>T4</b>	<b>TOTAL PROJECT SUBTOTAL</b>				<b>\$1,700,000</b>

# ENGINEER'S PRELIMINARY COST ESTIMATE

Monday, April 8, 2024

## Village of Kronenwetter - 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	----	---	----	----
	<b>T1</b>	<b>Subtotal Project Development Costs</b>				<b>\$40,000</b>
Construction Costs	1	Erosion Control Items & Maintenance During Construction	1	LS	\$2,500.00	\$2,500
	2	Traffic Control Nelson Rd & hwy 51	1	LS	\$10,000.00	\$10,000
	3	Unclassified Excavation-Non Paved Areas	25	CY	\$15.00	\$375
	4	Remove Asphalt Pavement, Driveway	200	SY	\$5.00	\$1,000
	5	Sawcut Asphalt Pavement	25	LF	\$5.00	\$125
	6	Topsoil removal	50	SY	\$5.00	\$250
	7	8 ft dia mh w/lid & base	1	LS	\$40,000.00	\$40,000
	8	8 ft wet well liftstation Complete	1	LS	\$175,000.00	\$175,000
	9	Excavation, installation, dewatering	1	LS	\$170,000.00	\$170,000
	10	Granular backfill/ liftstation & MH's	350	CY	\$25.00	\$8,750
	11	Generator - 40 KW	1	EA	\$50,000.00	\$50,000
	12	Electrician & Controls - Complete	1	LS	\$25,000.00	\$25,000
	13	Abandon ex. Ls/ electrical complete	1	LS	\$20,000.00	\$20,000
	14	3/4" Crushed Aggregate road base 12"	121	SY	\$80.00	\$9,680
	15	HMA Asphalt Pavement 2" Surface Course-Intersections	121	SY	\$24.00	\$2,904
	16	HMA Asphalt Pavement 2" Binder Course-Intersections	121	SY	\$18.00	\$2,178
	17	Hot Tar Butt Joint Sealer	25	LF	\$5.00	\$125
	18	3/4" Crushed Aggregate for Drive Shoulder, 2' wide x 6" thick	10	CY	\$50.00	\$500
	19	Concrete gen pad(10x15)/ Elec pad(5x8)	6.5	CY	\$200.00	\$1,300
	20	Topsoil, Seed & E-Mat all Disturbed areas,	325	SY	\$4.00	\$1,300
	21	Install Base, Pole, & Fixture for Street Lights (Light Type Assumed)	1	EA	\$4,500.00	\$4,500
	22	Electrical in Conduit for Street Lights	1	LS	\$1,500.00	\$1,500
	23	12" PVC SDR 21 type	45	LF	\$50.00	\$2,250
	24	6" FM D.I. pipe	15	LF	\$30.00	\$450
	25	6" FM PE pipe	80	LF	\$65.00	\$5,200
	26	Connect to ex. 4" FM	1	LS	\$500.00	\$500
	27	Shoulder restoration hwy51	50	SY	\$25.00	\$1,250
	28	Connect to ex. 4" FM	1	LS	\$500.00	\$500
	29	Replace 4" fm with 6" PE to LS5 interceptor	3260	LF	\$50.00	\$163,000
	30	Pavement Patching Hwy 51 HMA Ashalt	90	SY	\$30.00	\$2,700
	31	Abandon ex 4" fm	1	LS	\$10,000.00	\$10,000
	32	Push 6" PE through carrier under tracks	1	LS	\$7,500.00	\$7,500
	33	Gas allowance - working around lines	1	LS	\$5,000.00	\$5,000
	34	Traffic control	1	LS	\$10,000.00	\$10,000
	35	electrical allowance	1	LS	\$20,000.00	\$20,000
	36	Gas allowance	1	LS	\$12,000.00	\$12,000
	37	Internet allowance	1	LS	\$10,000.00	\$10,000
	<b>T3</b>	<b>SubTotal Road Construction &amp; Utility Costs</b>				<b>\$777,337</b>
Percentage Allocations On	A1	Performance & Payment bonds	2	%	----	\$16,400
Construction Subtotal	A2	Mobilization/Demobilization	3	%	----	\$24,600
	A3	Funding Requirements	0.0	%	----	\$0
	A4	Construction Contingencies	10	%	----	\$81,800
	A5	Geotechnical	0	%	----	\$0
	A6	Engineering, Permitting, Coordination, Construction Admin.	4	%	----	\$32,700
	A7	Surveying (Staking) & Legal	3	%	----	\$24,600
	<b>T4</b>	<b>Subtotal on Construction Allocations</b>				<b>\$180,100</b>
	<b>T5</b>	<b>TOTAL PROJECT SUBTOTAL</b>				<b>\$1,000,000</b>

**ENGINEER'S PRELIMINARY COST ESTIMATE**  
**Monday, March 25, 2024**  
**Village of Kronenwetter - Lift Station 8 to 7 direct pumping Project**



**OVERALL PROJECT - Lift Station, Forcemain, Power, Generator, Interceptor**

	#	Item	Item Quantity	Units	Unit Cost	Total Cost
<b>Project Development Costs</b>	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	TID Update or Amendment Services (Confirm)	----	----	----	\$10,000
	f	Land Acquisition (Prof. Fees & Land Rights) Estimate	----	---	----	----
	<b>T1</b>	<b>Subtotal Project Development Costs</b>				<b>\$50,000</b>
<b>Construction Costs</b>	1	Erosion Control Items & Maintenance During Construction	1	Lump Sum	\$2,500.00	\$2,500
	2	Unclassified Excavation-Non Paved Areas	110	CY	\$15.00	\$1,650
	3	Remove Asphalt Pavement, Driveway	110	SY	\$5.00	\$550
	4	Sawcut Asphalt Pavement	183	LF	\$1.50	\$275
	5	Topsoil removal	415	SY	\$2.50	\$1,038
	6	8 ft dia mh w/lid & base	1	LS	\$40,000.00	\$40,000
	7	8 ft wet well liftstation Complete	1	LS	\$170,000.00	\$170,000
	8	Excavation, installation, dewatering	1	LS	\$190,000.00	\$190,000
	9	Granular backfill/ liftstation & MH's	300	CY	\$25.00	\$7,500
	10	Generator - 40 KW	1	EA	\$40,000.00	\$40,000
	11	Generator Electrician & Controls - Complete	1	LS	\$20,000.00	\$20,000
	12	Abandon ex. Ls/ electrical complete	1	LS	\$20,000.00	\$20,000
	13	Abandon existing Structure & Pad	1	LS	\$5,000.00	\$5,000
	14	3/4" Crushed Aggregate for roadway, 8" thick	32	SY	\$15.00	\$480
	15	18" Breaker Run for Roadway	32	SY	\$20.00	\$640
	16	HMA Asphalt Pavement 2" Surface Course	32	SY	\$22.00	\$704
	17	HMA Asphalt Pavement 2" Binder Course	32	SY	\$20.00	\$640
	18	Hot Tar Butt Joint Sealer	14	LF	\$5.00	\$70
	19	3/4" Crushed Aggregate for Drive Shoulder, 2' wide x 6" thick	5	CY	\$50.00	\$250
	20	Concrete gen pad/ Elec pad	7	CY	\$300.00	\$2,100
	21	Topsoil, Seed & E-Mat all Disturbed areas,	502	SY	\$4.00	\$2,008
	22	Install Base, Pole, & Fixture for Street Lights (Light Type Assumed)	1	EA	\$4,500.00	\$4,500
	23	Electrical in Conduit for Street Lights	1	LS	\$1,500.00	\$1,500
	24	12" D.I san sewer	12	LF	\$50.00	\$600
	25	12" PVC SDR 21 type	49	LF	\$50.00	\$2,450
	26	8" FM D.I. pipe	15	LF	\$40.00	\$600
	27	8" FM PE W/Trench excavation/backfill, 5' deep	16810	LF	\$45.00	\$756,450
	28	8" direction bore under i-39 - w/ carrier pipe	240	LF	\$150.00	\$36,000
	29	Air release valve & manhole Complete	3	EA	\$6,000.00	\$18,000
	30	Kowalski crossing 3/4" Crushed Aggregate for roadway, 8" thick	178	SY	\$15.00	\$2,670
	31	Kowalski - 18" Breaker Run for Roadway	178	SY	\$20.00	\$3,560
	32	Kowalski - HMA Asphalt Pavement 2" Surface Course	178	SY	\$22.00	\$3,916
	33	Kowalski - HMA Asphalt Pavement 3" Binder Course	178	SY	\$25.00	\$4,450
	34	Topsoil removal & restoration <i>Outside</i> Kronenwetter St. Pavement	8,300	SY	\$3.00	\$24,900
	35	Topsoil removal & restoration along Kronenwetter St. Pavement	7,000	SY	\$3.00	\$21,000
	36	Insulation at culvert crossings	120	LF	\$10.00	\$1,200
	37	Post Marking Air release MH	3	EA	\$5.00	\$15
	38	Pavement marking at Kowalski Rd	120	LF	\$5.00	\$600
	39	3-Phase Power Extension and Setup	1	LS	\$60,000.00	\$60,000
	40	Connect new 8" into existing mh, core opening.	1	LS	\$2,500.00	\$2,500
	41	Abandon existing Structure & pads	2	LS	\$5,000.00	\$10,000
	42	Connect Existing Sewers	2	Ea	\$1,000.00	\$2,000
	43	Gas allowance	1	LS	\$20,000.00	\$20,000
	44	Internet allowance	1	LS	\$10,000.00	\$10,000
	45	WisDOT Fence Removal, Install	50	LF	\$50.00	\$2,500
	<b>T2</b>	<b>SubTotal Road Construction &amp; Utility Costs</b>				<b>\$1,494,815</b>
<b>Percentage Allocations On Construction Subtotal</b>	A1	Performance & Payment bonds	2	%	----	\$30,900
	A2	Mobilization/Demobilization	3	%	----	\$46,400
	A3	Funding Requirements	0.0	%	----	\$0
	A4	Construction Contingencies	10	%	----	\$154,500
	A5	Geotechnical	0	%	----	\$0
	A6	Engineering, Permitting, Coordination, Construction Admin. Going Forward	4	%	----	\$61,800
	A7	Surveying (Staking) & Legal	2	%	----	\$30,900
	<b>T3</b>	<b>Subtotal on Construction Allocations</b>				<b>\$324,500</b>
	<b>T4</b>	<b>TOTAL PROJECT SUBTOTAL</b>				<b>\$1,900,000</b>