

# T.G. MILLER, P.C.

ENGINEERS AND SURVEYORS

## Preliminary Opinion of Probable Construction Cost

4/24/2020

### 1 - Town of Dryden Sanitary Sewer Infrastructure Improvements

#### Upsize Gravity Sewer Main (Varna Hamlet)

Varna Pump Station MH (Forest Home Dr.) To MH# 63 (East of Freese Rd.)

Item Description	Quantity	Unit	Unit Cost	Sub Total
Mobilization	1	LS	\$10,000	\$10,000
Maintenance and Protection of Traffic	1	LS	\$8,000	\$8,000

#### Sewer Distribution System

12" PVC SDR-35 Gravity Main (MH#34-63) (South side NY-366) (Remove old 8" Transite Pipe)	3,700	LF	\$325	\$1,202,500
12" Highway Crossing (MH#34-78) Jack and bore w/ steel casing	1	LS	\$30,000	\$30,000
Rehab Existing 8" AC Gravity Main (MH#34-47) North side NY-366	2,520	LF	\$100	\$252,000
Video Inspection (North side only)	1	LS	\$4,500	\$4,500
Rehab Existing 4' Dia. Manhole North side NY-366	14	EA	\$1,500	\$21,000
4' Dia. Manhole Replacement (Remove Old Structures)	17	EA	\$8,000	\$136,000
Service Lateral Reconnection	33	EA	\$2,000	\$66,000
Bypass Pumping	1	LS	\$33,000	\$33,000

#### Site Improvements and Restoration

Lawn Restoration	2,100	SY	\$10	\$21,000
Asphalt Repair	150	SY	\$110	\$16,500

<b>Construction Total</b>			<b>\$1,800,500</b>
Professional Services (survey, engineering, attorney, const. admin.)		15%	\$270,075
Construction Contingency		25%	\$450,125
<b>Estimated Total Construction Cost</b>			<b>\$2,520,700</b>

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### 2 - Town of Dryden Sanitary Sewer Infrastructure Improvements

Upsize Gravity Sewer Main (Near Cadwell Dr.)

MH#18 To MH#9 (Tower Rd.)

Item Description	Quantity	Unit	Unit Cost	Sub Total
Mobilization	1	LS	\$10,000	\$10,000
Maintenance and Protection of Traffic	1	LS	\$2,500	\$2,500

#### Sewer Distribution System

15" PVC SDR-35 Gravity Main (MH#9-12) (Remove old 10" Transite Pipe)	930	LF	\$350	\$325,500
12" PVC SDR-35 Gravity Main (MH#12-17) (Remove old 10" Transite Pipe)	1,472	LF	\$325	\$478,400
12" Highway Crossing (MH#17-18) Jack and bore w/ steel casing	1	LS	\$30,000	\$30,000
4' Dia. Manhole Replacement (Remove Old Structures)	10	EA	\$8,000	\$80,000
Large Diam. Service Lateral Reconnection	3	EA	\$3,500	\$10,500
Bypass Pumping	1	LS	\$8,000	\$8,000

#### Site Improvements and Restoration

Lawn Restoration	2,700	SY	\$10	\$27,000
Asphalt Repair	35	SY	\$110	\$3,850

<b>Construction Total</b>			<b>\$975,750</b>
Professional Services (survey, engineering, attorney, const. admin.)	15%		\$146,363
Construction Contingency	25%		\$243,938
<b>Estimated Total Construction Cost</b>			<b>\$1,366,050</b>

## Preliminary Opinion of Probable Construction Cost

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### 3 - Town of Dryden Sanitary Sewer Infrastructure Improvements

#### Upsize Varna Sanitary Sewer Pump Station Capacity

MH #18 (Tulip Tree Dr.) to MH #33 (Varna Pump Station at Forest Home Dr.)

Item Description	Quantity	Unit	Unit Cost	Sub Total
<b>General Requirements</b>				
Mobilization	1	LS	\$10,000	\$10,000
Maintenance and Protection of Traffic	1	LS	\$6,500	\$6,500

#### Sewer Distribution System

200 kW Generator and Automatic Transfer Switch	1	EA	\$85,000	\$85,000
New 8" HDPE Force Main Directional Drilled (MH#33 -MH#18)	3400	LF	\$125	\$425,000
Rehab Existing 8" AC Gravity Main (MH#25-33)	1,315	LF	\$100	\$131,500
Video Inspection (gravity only)	1	LS	\$4,500	\$4,500
Rehab Existing 4' Dia. Manholes (MH#26-MH#33)	8	EA	\$1,500	\$12,000
Service Lateral Reconnection	7	EA	\$2,000	\$14,000
Connection to Existing MH	2	EA	\$2,500	\$5,000
Bypass Pump Connection at valve vault	1	LS	\$7,000	\$7,000
8" Highway Crossing (8" Force Main)				
Jack and bore w/ steel casing	1	LS	\$30,000	\$30,000
Abandon Existing Force Main	1	LS	\$6,500	\$6,500
Bypass Pumping	1	LS	\$12,000	\$12,000
Submersible Pump and Guide Rails (Upsize from 50hp to 70hp, Reuse Wet well)	2	EA	\$17,000	\$34,000
New Pump Controller, Cabinet and Soft Starters	1	LS	\$50,000	\$50,000
Upsize Electric Service and Disconnects	1	LS	\$12,000	\$12,000
Remove Old Electric Service and Controls Cabinets	1	LS	\$4,500	\$4,500
Remove Old Pumps and Guide Rails	1	LS	\$5,500	\$5,500
Upsize Gas Service	1	LS	\$2,500	\$2,500

#### Site Improvements and Restoration

Lawn Restoration	1,000	SY	\$10	\$10,000
Asphalt Repair	80	SY	\$110	\$8,800

<b>Construction Total</b>			<b>\$876,300</b>
Professional Services (survey, engineering, attorney, const. admin.)	15%		\$131,445
Construction Contingency	25%		\$219,075
<b>Estimated Total Construction Cost</b>			<b>\$1,226,820</b>

## Preliminary Opinion of Probable Construction Cost

### Town of Dryden - Sewer Infrastructure Improvement Summary

4/24/2020

#	Project Description	Project Cost
1	Upsize Gravity Sewer Main (Varna Hamlet)	
	Varna Pump Station MH (Forest Home Dr.) To MH# 63 (East of Freese Rd.)	\$2,520,700
2	Upsize Gravity Sewer Main (Near Caldwell Dr.)	
	MH#18 (Tulip Tree Dr.) To MH#9 (Tower Rd.)	\$1,366,050
3	Upsize Varna Sanitary Sewer Pump Station Capacity	
	MH #18 (Tulip Tree Dr.) to MH #33 (Varna Pump Station at Forest Home	\$1,226,820

**Total      \$5,113,570**

**Note: Each estimate assumes a 15% professional services fee and 25% construction contingency.**