Engineer's MAP, PLAN, AND REPORT

ROBERTS STREET

SEWER IMPROVEMENTS

IN THE

LENOX SEWER DISTRICT #7

Prepared for: Town of Lenox 205 South Peterboro Street Canastota, New York 13032

> June 2022 Revised August 24, 2022





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1. INTRODUCTION

This report will locate, describe, and address the feasibility of the project. The report is prepared on behalf of the Town of Lenox, and will support future permitting and funding applications.

2. LOCATION

The project is located on Roberts Street, just east of the Village of Canastota, in the Town of Lenox, in Madison County, New York (FIGURE 1).

3. EXISTING CONDITIONS

There are currently 8 single-family homes on the south side of Roberts Street that are served a poorly functioning gravity and forcemain sewage collection system installed by a private developer in the 1980's, that is connected to the Village of Canastota's collection and wastewater treatment facilities. There is also 1 lot at 7498 Roberts Street (Tax Parcel #36.-4-6) on the south side that is served by a poorly functioning septic system. Wastewater from these homes is conveyed to a pressured manifold system via 4 grinder pump stations, each serving 2 homes (FIGURE 2). Power to the grinder pumps is supplied from 1 of the 2 homes being served, with no provisions for emergency power. This sewage collection and conveyance system, which does not meet New York State Department of Environmental Conservation (NYSDEC), Madison County Health Department (MCHD), or Ten State Standards, is subject to frequent breaks, mechanical failures, occasional power outages, and blocked flows, resulting in surcharges and surface discharges of untreated wastewater within the Canaseraga Watershed (APPENDIX C).

It is estimated that these 9 single-family homes currently produce a total of up to 2,400 gallons of domestic strength wastewater per day, with peak discharge rates of 10 gpm.

The Village of Canastota's gravity sewer system and wastewater treatment facility has sufficient capacity to accommodate their flows.

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According to the NYSDEC EAF Mapper, there are no regulated water bodies, environmentally or archeologically sensitive areas, threatened or endangered species located within the project area (APPENDIX A).

The population of the Town of Lenox has decreased by approximately 4% from 2010 to 2018, according to the local Town of Lenox Census Data. Within the project service area, there are no vacant properties available for future development.

In 1990, the Town of Lenox created Sewer District #7, comprising of the 8 properties that are served by the current sewer system (APPENDIX B). The property at 7498 Roberts Street has been added by Letter Agreement. This special benefit district remains in place, although there ae currently no associated debts or special assessments.

4. **PROJECT DESCRIPTION**

The project entails the construction of a new gravity sewer collection system with a central pump station and force main to replace the current grinder pump system that serves the 8 lots on Roberts Street, plus 7498 Roberts Street. The project will provide lateral connections and cleanouts for each of the 9 homes to the edge of the highway right-of-way. It will be the responsibility of each property owner to make the connection to their own lateral on private property.

Specifically, the project will consist of (FIGURE 3):

- 1,400 feet of 8-inch gravity sewer main
- 5 manholes
- 9, 4-inch wye lateral connections and cleanouts to right-of-ways
- 6-foot diameter duplex pump station
- 500 feet of 3-inch forcemain with connection to existing Village manhole

The project will be designed to NYSDEC and Ten State Standards, including the following:

- Sewage generation flow rate:
 - 300 gpd/single-family home
 - Peak hour -5 times average daily flow

- Gravity sewer: Minimum velocity of 3 fps when flowing full or half full
- Force main: Minimum velocity of 3 fps
- Pump station:
 - 30 minute maximum wetwell retention time at average daily flow
 - 5 minute maximum wetwell retention time at peak hour flow
 - 1 minute minimum pump run time
 - 24-hour emergency storage volume
 - Emergency generator connectibility
 - Combined duplex pump capacity greater than peak inflow

This project will require permits and approvals from the MCHD and the NYSDEC.

All design elements of the project will include the future potential for additional flows from up to 10 single-family homes on the north side of Roberts Street (FIGURE 4) if the assessment district were ever to be expanded to include these properties.

There are no significant construction challenges anticipated other than typical constraints with other underground utilities.

The proposed sewer system will be operated and maintained by the Town of Lenox, with costs assessed to the 8 benefitting properties in the Lenox Sewer District #7.

5. **PROJECT COSTS and FINANCING**

The project is anticipated to cost \$400,000 to construct, and approximately \$3,000 per year to operate and maintain.

The construction Capital costs will be financed with Grants (up to 60%), a Town of Lenox contribution of \$75,000, and a 30-year Bond (FIGURE 5).

The Capital and O&M costs will be assessed on an annual basis to each of the 9 participating properties in the Lenox Sewer District #7, on a unit basis. The annual unit cost is estimated to be \$880 per year per property (FIGURE 5).

6. ALTERNATIVES

A. No Action

Continuing to rely on the non-compliant and poorly functioning collection and pumping system will result in persistent failures, surface discharges, and increasing repair expenses.

B. Individual Pressurized System

Replacing the current system with new individual grinder pump stations (9 total) in each home, discharging to a new force main would be a less expensive alternative to the proposal, however, O&M costs could be significantly higher and more challenging with 9 pumping systems located on private property. The life cycle of small grinder pumps is also much shorter than for duplex effluent pumps in a centralized pump station.

C. District Expansion

The potential to expand the service area to include up to 10 additional properties on the north side of Roberts Street is feasible, and could reduce the annual debt service unit costs to the 9 properties currently in the district. However, at this time there is no interest or support for participating in a district expansion from these 10 property owners.

7. CONCLUSION

The project as proposed represents the most practical solution, and the most efficient life cycle costs for remediating the poorly functioning sewage collection system on Roberts Street.

RESPECTFULLY SUBMITTED, DUNN & SGROMO ENGINEERS

John C. Dunkle, P.E.

JCD/lb

FIGURES





FIGURE 2

EXISTING PRIVATE PRESSURE SYSTEM





EXISTING DISTRICT SERVED BY PRIVATE PRESSURE SYSTEM



NOT FOR CONSTRUCTION

THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISION UNTIL ALL APPROVALS ARE OBTINNED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.





FIGURE 5

Project Budget

for

Roberts Street Sewer Improvements

in the Town of Lenox Sewer District #7

(based on plans prepared by Myers & Associates dated January 17, 2020)

(Reference FIGURE 3)

1,400 feet of 8-inch PVC sewer main @ \$90/foot		=	\$126,000
5, 4-foot diameter concrete manholes @ \$5,000 ea	ach	=	\$ 25,000
6-foot diameter precast concrete pump chamber		=	\$ 15,000
6-foot diameter precast concrete valve pit		=	\$ 5,000
Duplex pump system and controller with valves		=	\$ 95,000
Electrical connections and panel		=	\$ 25,000
9, 4-inch PVC wye, material and cleanout @ \$2,5	00 each	=	\$ 22,500
500 feet of 3-inch forcemain and connection to ex	isting manho	le =	\$ 10,000
Restoration		=	\$ 10,000
Contingency		=	\$ 30,000
Soft costs		=	\$ <u>35,000</u>
Total		=	\$396,000
	Say	=	\$400,000
60% Grant		=	\$240,000
Town Contribution		=	\$ 75,000
30-Year financing of \$85,000 @ 4% (.0578) inter	est	=	\$ 4,913/year
Anticipated Annual O&M costs		=	\$ 3,000/year
Total Annual District Costs (Capital financing and	d O&M)	=	\$ 7,913/year
Units		=	9
Annual Unit Cost	approximatel	y =	\$ 880/year

APPENDIX A

Short-form EAF

Short Environmental Assessment Form Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information				
Name of Action or Project:				
Roberts Street Sewer Improvement	ts			
Project Location (describe, and attach a location map):				
Roberts Street east of the Village of Car	nastota			
Brief Description of Proposed Action:				
Replacement of a poorly functioning, pressured sewer collection	system serving 9 residences,			
with a new gravity sewer, pump station and force main.				
Name of Applicant or Sponsor:	Telephone: (315) 6	697-9291		
Town of Lenox	E-Mail: tolsuper@cnymail.com			
Address:				
205 South Peterboro Street				
City/PO:	State:	Zip Code:		
Canastota New York 13032				
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, NO YES				
If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.				
2. Does the proposed action require a permit, approval or funding from any other	er government Agency?	NO	YES	
If Yes, list agency(s) name and permit or approval: NYSDEC, Madison County Health Department				
3. a. Total acreage of the site of the proposed action? 20 acres b. Total acreage to be physically disturbed? 0.2 acres c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 20 acres				
 4. Check all land uses that occur on, are adjoining or near the proposed action: 5. Urban Rural (non-agriculture) Industrial Commercia Forest Agriculture Aquatic Other(Spece Parkland 	al 🗹 Residential (subur	ban)		

5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?			~
b. Consistent with the adopted comprehensive plan?			~
6 Is the proposed action consistent with the prodominant character of the existing built or natural landscape	<u></u>	NO	YES
o. Is the proposed action consistent with the predominant character of the existing built of natural fandscape	1		~
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		NO	YES
If Yes, identify:		~	
		NO	YES
8. a. Will the proposed action result in a substantial increase in traffic above present levels?			
b. Are public transportation services available at or near the site of the proposed action?			
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?			
9. Does the proposed action meet or exceed the state energy code requirements?		NO	YES
If the proposed action will exceed requirements, describe design features and technologies:			
			✓
10. Will the proposed action connect to an existing public/private water supply?		NO	YES
If No, describe method for providing potable water:			
11. Will the proposed action connect to existing wastewater utilities?		NO	VEC
The win the proposed action connect to existing wastewater utilities:		NO	YES
If No, describe method for providing wastewater treatment:			
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or distri	ct	NO	YES
which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the	e	~	
State Register of Historic Places?			
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?			
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?		NO	YES
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?			
If Veg. identify the wetland on waterholdy and extent of alterations in gauge fact on carees			
In res, identify the wettand of waterbody and extent of alterations in square feet of acres:			

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:		
Shoreline Forest Agricultural/grasslands Early mid-successional		
Wetland Urban 🗹 Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or	NO	YES
Federal government as threatened or endangered?		
	V	
16. Is the project site located in the 100-year flood plan?	NO	YES
	✓	
17. Will the proposed action create storm water discharge, either from point or non-point sources?	NO	YES
If Yes,	✓	
a. Will storm water discharges flow to adjacent properties?		
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?		
If Yes, briefly describe:		
18. Does the proposed action include construction or other activities that would result in the impoundment of water	NO	YES
or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment:		
	~	
49. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste	NO	YES
management facility?		
II Tes, describe	~	
20.Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or	NO	YES
completed) for hazardous waste?		
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BE	ST OF	
MY KNOWLEDGE		
Applicant/sponsor/name: John Dunkle, P.E Date: August 22	2, 2022	
Signature:Title:Project Engineer		

EAF Mapper Summary Report



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

clonopenStreetMap contributors, and the GIS User Community

Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	No
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	No
Part 1 / Question 16 [100 Year Flood Plain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
Part 1 / Question 20 [Remediation Site]	Yes

APPENDIX B

District Formation Document

1				
÷	IN THE MATTER	:		
5	OF	:		
ł	THE ESTABLISHMENT OF A PROPOSED	:		
1	SEWER DISTRICT IN THE TOWN OF	:	ORDER	ESTABLISHING
Ì	LENOX, MADISON COUNTY, NEW YORK,	:	SEWER	DISTRICT
4	TO BE KNOWN AS SEWER DISTRICT	:		
Į	NO. "7".	;		
1	وجد بعد جم بعد مم حد عد عد عد عد عد اعد اعد اعد اعد اعد اعد			

At a special meeting of the Town Board of the Town of Lenox, Madison County, New York, held at Canastota, New York, in said Town of Lenox, on the 24th day of September, 1990, at 7:30 p.m., there were

> Rocco J. DiVeronica, Supervisor, who absented himself from the discussion and vote Ernest J. Emmi, Councilperson Francis D. Kelsey, Councilperson Peter A. Palamara, Councilperson Lee E. Gustin, Councilperson

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FILED

CLERK

ABSENT:

PRESENT:

The following order was proposed by Councilperson Gustin, who moved its adoption, to wit:

WHEREAS, a written petition dated August 9; 1990, has been presented to and filed with the Town Clerk of the Town of Lenox, New York, requesting the creation of a sewer district to be known as Sewer District No. "7" of the Town of Lenox, and construction of a sewer system therein, with boundaries as set forth in the Exhibits "A" and "B" attached to the petition; and, further, an affidavit of Rocco J. DiVeronica, Richard J. DiVeronica and John L. DiVeronica, certifying their agreement to pay all expenses related to the sewer district, has been received and filed; and

WHEREAS, on the 13th day of August, 1990 the Town Board of the Town of Lenox, New York, duly adopted an order calling a public hearing to be held at the Town Hall, Canastota, New York, in said Town, on the 10th day of September, 1990 at 7:30 p.m., to consider said petition and to hear all persons on the subject thereof concerning the same and for such action on the part of said Town Board with relation to said petition as may be authorized and required by law; and

WHEREAS, notice of such public hearing was duly published and

posted in the manner required by law; and WHEREAS, at the September 10, 1990 meeting of the Town Board, the public hearing was adjourned to September 24, 1990 at the request of an interested resident, until after the following Village of Canstota

WHEREAS, on the adjourned date of September 24, 1990, the public Board meeting was held; and

hearing was duly reconvened and held, and at the public hearing the Town Board reviewed Part 1 of the Short Environmental Assessment Form prepared by the property owners regarding this project, and the Board prepared Part II of the said Short EAF; and the Board having thereupon determined upon all of the evidence pursuant to SEQRA 6 NYCRR 617.6(g)(1)(ii) & (2) that there were no identified environmental effects of significance, and therefore authorized issuance of a Determination of Non-Significance and Negative Declaration; and WHEREAS, after said public hearing, and upon consideration, the

evidence given thereat, said Town Board duly adopted an order on the 24th day of September, 1990, determining to create and construct such sewer district, all in accordance with said petition and the map and plan accompanying the same, the entire cost for which shall be borne

by the property owners so petitioning; and WHEREAS, none of the expense for such project shall be financed by the issuance of bonds, notes, certificates or other evidences of indebtedness of the Town, and that therefore no approval of the intended project from the State Comptroller shall be required, pursuant to Town Law section 194(6);

r v r

RESOLVED, by the Town Board of the Town of Lenox, Madison County, NOW, THEREFORE, BE IT

Section 1. A Determination of Non-Significance and Negative New York, as follows: Declaration pursuant to the New York State Environmental Quality Review Act (SEQRA) shall be prepared and issued in connection with this project.

Section 2. It is hereby determined: (a) That said petition is signed, acknowledged or proved as required by law and is otherwise sufficient;

(b) That all the property and property owners within the proposed district are benefited thereby;
 (c) That all the property and property owners benefited are included within the limitation of the proposed district; and

(d) That it is in the public interest to grant in whole the relief sought.

Section 3. That the said district as requested in said petition be and the same is hereby established and the boundaries of such district are hereby determined to be all those lands situated in the Town of Lenox, County of Madison, State of New York, bounded and described as shown in Exhibit "A" attached hereto.

Section 4. The construction and maintenance of a sanitary sewer system in said district is hereby authorized and approved (except commencement of construction shall be subject to the condition stated below), such district and construction to include the necessary manholes, connections and appurtenances, all in accordance with the map and plan submitted with said petition, which are now on file in the office of the Town Clerk of said Town; the full expense for the project, including all related surveying, engineering, installation, legal and attorney's fees and costs, shall be assessed and levied against the above described parcel of land and collected therefrom, according to the petition and affidavit of Rocco J. Diveronica, Richard J. Diveronica and John L. Diveronica.

Section 5. That within ten days of adoption, a certified copy of this resolution shall be recorded in the office of the Clerk of the County of Madison, and with the office of the state department of

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audit and control (State Comptroller) at Albany, New York, all as pursuant to Town Law section 195(1).

No construction of the sewer district system shall be commenced until the Town Board shall cause a copy of the map and Section 6. plan of the proposed sewer district to be first submitted to the State Department of Health or other required body, and if approved, then filed in the Office of State Department of Health and the Clerk of the Town of Lenox, pursuant to Town Law Section 192. This order shall take effect immediately.

Section 7.

The question of the adoption of the foregoing order was duly put to a vote on roll call which resulted as follows:

Abstained from discussion and Rocco J. DiVeronica vote Aye Ernest J. Emmi Aye Francis D. Kelsey Aye Peter A. Palamara Aye Lee E. Gustin

The order was thereupon declared adopted.

CERTIFICATION

STATE OF NEW YORK: COUNTY OF MADISON: TOWN OF LENOX :

I, Carolyn A. Massarotti, Clerk of the Town of Lenox, Madison County, New York, DO HEREBY CERTIFY:

That I have compared the annexed extract of the minutes of the meetings of the Town Board of said Town of Lenox, New York, including the order contained therein, held on the 10th and 24th days of September, 1990, with the originals thereof on file in my office and that the same is a true and correct transcript therefrom and of the whole of said originals so far as the same relate to the subject matters therein referred to.

I FURTHER CERTIFY that all members of said Board had due notice of said meeting.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Town this 17^{\prime} day of October, 1990.

Carolyn A. Massarott Town Clerk

SEAL

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36-LenOrdl.doc

ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE TOWN OF LENOX, COUNTY OF MADISON AND STATE OF NEW YORK, BEING PART OF LOTS NUMBERS 89 AND 90 OF THE CANASTOTA TRACT, BOUNDED AND DESCRIBED AS FOLLOWS:

المراجع وموطورين وتروا المراجع المتعاد

A REAL PROPERTY AND A REAL PROPERTY OF A REAL PROPE

محمد والأقلال والمروم ومعرف وأربعت والم

Beginning at a point on the centerline of Roberts Street (Dutch Settlement Road), said point standing at the intersection of the centerline of Roberts Street with the westerly boundary of Myron R. and Nancy E. Petrenko (Now or Formerly), as described in a Warranty Deed dated December 9, 1974 and filed in the Madison County Clerk's Diffice in Liber 683 of Deeds at Page 384; thence S 31 27'40" E, 335.62 feet along the westerly boundary of Petrenko to a fence corner tanding on the southerly boundary of Petrenko; thence N 59°29'01" 7, 583.79 feet along the southerly boundary of Petrenko to an iron bin standing on the easterly boundary of Petrenko; thence N 26°40'44" -1, 334.20 feet along the easterly boundary of Petrenko to a point standing on the centerline of Roberts Street; thence N 59°40'57" E, 49.60 feet along the centerline of Roberts Street to a point standing on the westerly boundary of Edward J. and Karen L. DeZalia (Now or Formerly); thence S 26 40'44" E, 334.03 feet along the westerly boundary of DeZalia to an iron pin standing on the southerly boundary of DeZalia; thence N 59°29'01" E, 592.60 feet along the southerly boundary of DeZalia to an iron pin standing on the westerly boundary of William L. and Geraldine K. Lake (Now or Formerly); thence S 30°29'40" E, 1669.25 feet along the westerly boundary of Lake to an iron pin standing on the northerly boundary of Richard L, and Nancy J. Carrier (Now or Formerly); thence S 59 43'44" W, 623.76 feet along the northerly boundary of Carrier to a 24 inch diameter ree; thence N 74 45'50" W, 844.98 feet continuing along the northerly boundary of Carrier to an iron pin; thence S 60 21'07" W, 89.05 eet still along the northerly boundary of Carrier to an iron pin standing on the westerly boundary of Carrier; thence S 29014'23" E, .866.28 feet along the westerly boundary of Carrier and the westerly Youndary of Milton Ostrander (Now or Formerly) to a point standing on the centerline of Canal Road; thence S 69⁰09'11" W, 122.89 feet along the centerline of Canal Road to a point; thence S 72⁰57'35" W, 201.34 feet continuing along the centerline of Canal Road to a point; hence S 75°49'05" W, 130.34 feet to a point; thence S 79°41'13" W, .61.70 feet to a point; thence S 84°48'42" W, 168.80 feet to a point; hence S 89°17'07" W, 124.36 feet to a point; thence N 87°11'05" W, .12.73 feet to a point; thence N 84°17'29" W, 238.53 feet to a point; thence N 83°33'00" W, 732.56 feet still along the centerline of Canal Road to a point; thence N 84°17'29" W, 238.53 feet to a point; Road to a point standing on the easterly boundary of Richard C. and C. a

APPENDIX C

Madison County Health Department Letter



Eric Faisst, Director of Public Health

Dr. John B. Endres, President of Board of Health

s,

May 12, 2022

Mr. J. John Pinard, Town Supervisor Town of Lenox 205 South Peterboro Street Canastota, NY 13032

RE: Letter of Support, Town of Lenox Sanitary Sewer Improvements, Roberts Street

Dear Mr. Pinard,

The purpose of this correspondence is to express the Madison County Department of Health's support for the Town of Lenox application to improve the Roberts Street sewer collection system. The grant funding would provide financial assistance for the initial engineering, planning services and construction needed to correct or otherwise address ongoing problems associated with the sanitary sewer collection system serving residential properties along Roberts Street in the Town of Lenox. This office has engaged in discussion with Town Engineer, Mr. John Dunkle of Dunn & Sgromo Engineers and fully agrees with the urgency and need for a project. It will replace the current substandard system as well as extend sanitary sewer service to other homes within the neighboring area, which are experiencing problems due to aged and failing onsite septic systems.

The current sanitary sewer conveyance system serving homes along Roberts St. and east of the Village of Canastota municipal boundary was installed by a private developer and consists of a combination of shallow gravity sewer and grinder pump systems that serves eight (8) homes located along the south side of Roberts Street. The system was installed under a prior Town administration over an extended period of time by the home developer and without the benefit of prior review and approval of construction plans by either the New York State Department of Environmental Conservation (NYSDEC) or the Madison County Department of Health (MCDOH). The homes are reputedly served by an 8" sewer stub extending from a manhole located on the southeast side of Roberts Street in the Village of Canastota. It is reported that low pressure sewer lines connect to the 8" stub by a manifold arrangement and extend northeast along the Roberts Street right-of-way. The wastewater from the homes served is conveyed by residential grinder pumps, with a single grinder pump serving each pair of homes. Power for the pump system is supplied from one of the two homes and appear to lack emergency provisions for power loss and proper cleanouts and isolation valves. The design and construction of the pressure sewer system does not appear to be in compliance with the applicable NYSDEC standards, *10-State Standards for Publicly Owner Treatment Works*.



138 North Court Street • P.O. Box 605 • Wampsville, NY 13163 • Phone 315-366-2361 • Fax 315-366-2697 www.healthymadisoncounty.org, your source for local health information.

A healthy environment and community for all.

The Town has indicated the pressure sewer is subject to frequent breaks, indicating the sewers may be installed at inadequate depths and/or subject to freezing and mechanical damage or subject to occasional high pressure situations causing pipe damage. The receiving manholes are also reported to be subject to periodic surcharges suspected to be caused by downstream solids buildup due to insufficient flow velocity and lack of cleanouts to facilitate periodic flushing. Backups from the occasional surcharging and presence of sewage discharging to the ground surface prompted by the sewer breaks create unsanitary conditions that present a risk to public health and a nuisance to the community.

Other residential properties located in the Town along this same length of Roberts Street and across the road from the low-pressure sewer continue to rely on aged onsite septic systems with documented past septic system failures. Provisions that would enable these existing homes to connect to the sanitary sewer system would benefit these homeowners. Any proposed improvements to the collection system should further include provisions for additional connections along Roberts Street. The engineering design work should further include clarifying the boundaries of the sewer district reputedly created to accommodate the original eight (8) home development as well as any proposed expansion of the district.

The evaluation of an existing sewage pump station constructed and intended to serve further development of the "Diveronica Tract" should also be included in the engineering services grant work. The pumps intended to be installed within this pump station were previously provided to the Town; however, they were not installed and the condition of these facilities should be evaluated to determine if usable or practical for use as intended or for future wastewater conveyance.

This Department appreciates the opportunity to provide these comments in support of the Town's continued initiatives to improve sanitary sewer service to residents of the Town of Lenox and in particular those residents located in this area along Roberts Street. We look forward to working with the Town, the Village of Canastota, and the design professionals in the development of engineering plans necessary to move this project forward. Our Department commends you and the members of the Town Council for seeking funds that will address the problems associated with the existing sewer collection system and subsequently, provide improved municipal sewer service to the residents of Roberts Street.

Should you have any questions, please feel free to contact me at the Madison County Department of Health at 315-366-2526.

Sincerely, Aaron Laz kara

Director of Environmental Health

Cc. File (T) Lenox John Dunkle, (T) Lenox Engineer (email)