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**Engineers**

**MAP, PLAN, AND REPORT**

**for the**

**JOINT INCREASE AND IMPROVEMENTS OF  
FACILITIES TO THE  
TOWN OF CAZENOVIA/TOWN OF NELSON  
ROUTE 20 WATER DISTRICTS  
PURSUANT TO TOWN LAW §2020-b**

**Prepared for:**

**TOWN OF CAZENOVIA  
7 Albany Street  
Cazenovia, NY 13035**

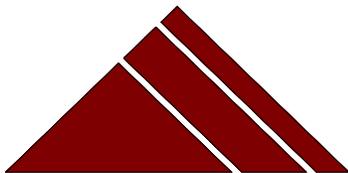
**TOWN OF NELSON  
4085 Nelson Road  
Cazenovia, NY 13035**

**October 2020**



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*Joint Increase and Improvements of Facilities to the  
Town of Cazenovia/Town of Nelson Route 20 Water Districts  
Pursuant to Town Law §2020-b - Engineer’s Map, Plan and Report*

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**Joint Increase and Improvements of Facilities to the  
Town of Cazenovia/Town of Nelson Route 20 Water Districts  
Pursuant to Town Law §2020-b - Engineer's Map, Plan and Report**

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**Introduction**

The purpose of this Map, Plan and Report is to describe the proposed increase and improvements to the Route 20 Town of Cazenovia/Town of Nelson Water District Facilities (“Water District Systems Improvements”), to determine the cost of these improvements, and to establish the financing plan and annual cost to District members. These Improvements are being undertaken jointly by the Towns of Nelson and Cazenovia, Madison County, New York following the guidelines of New York State Town Law Section 202-b.

**Background**

In 2017, the Towns of Nelson and Cazenovia jointly formed the Cazenovia/Nelson Route 20 Water Districts for the purposes of designing, constructing, and financing a public water system to serve 45 properties along US Route 20 in the Towns of Nelson and Cazenovia. The system, which included approximately 10,500 feet of new water lines, 45 water services, 23 hydrants, a new pump station, and a 150,000 gallon elevated water storage tank, was completed in October, 2020 at a project cost of \$2.85 million. The project was financed by a \$ 200,000 grant from the Northern Border Regional Commission, a \$ 1,590,000 grant from the New York State Environmental Facilities Corporation (“EFC”), and by a 30 year loan of \$1,060,000 from EFC. The annual debt service costs on the loan are assessed proportionality to each of the 45 District members based on the individual property’s assessed value (“ad valorem”). Currently the District has a total assessed value of \$18.4 million. The new water system is operated by the Village of Cazenovia pursuant to an Intermunicipal Agreement (“IMA”) executed on February 11, 2019. Properties that connect to the system and use public water pay the Village a water usage fee based on metered water consumption.

**Proposed System Improvements and Cost**

Upon completion of the project improvements, the following upgrades (with estimated expenses) to the functioning system are necessary and/or are recommended for the safety, security and efficiency of operation of the Town of Cazenovia/Town of Nelson Route 20 Water Districts:

1. Upgraded power service to pump station (National Grid) - \$13,000
2. Installation of a riser pipe in existing Village tank - \$8,000
3. Installation of a floor level vent in pump house - \$5,000
4. Directional drilling for additional pipe installation - \$38,500
5. Surveying for tank property - \$1,500
6. Installation of a solar powered pressure sensor at tank with radio transmitter - \$18,000

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7. Reprogramming of PLC for tank pressure inputs and communication system - \$2,000
8. Installation of a chain link fence around tank - \$14,000
9. Engineering/legal/bond counsel -\$8,500

**Total Improvement Project Cost = \$108,500**

**Proposed Project Financing and Cost to District Properties for the Increase and Improvements of Facilities**

The \$108,500 Improvement project cost will be financed over a total 15 year period at an estimated interest rate of 3%, resulting in an annual cost to the District of approximately \$9089 ( $\$108,500 \times .0838$ ). This additional annual debt service cost will be assigned proportionally to each of the District members based on property assessed values (ad valorem), in the same manner as the debt service costs for the original project and in accordance with the original district formations. Allocation of reimbursement of these expenses will be in accordance with the terms of the Parties' Intermunicipal Agreement, dated February 11, 2019, and as amended. With a total District assessed value of \$18.4 million, the debt service for this project will cost approx. \$0.49/1,000 of assessed value. When added to the current annual debt service charges, the total cost to property owners in the District will be approximately \$3.54/1,000 of assessed value.

RESPECTFULLY SUBMITTED,  
DUNN & SGROMO ENGINEERS

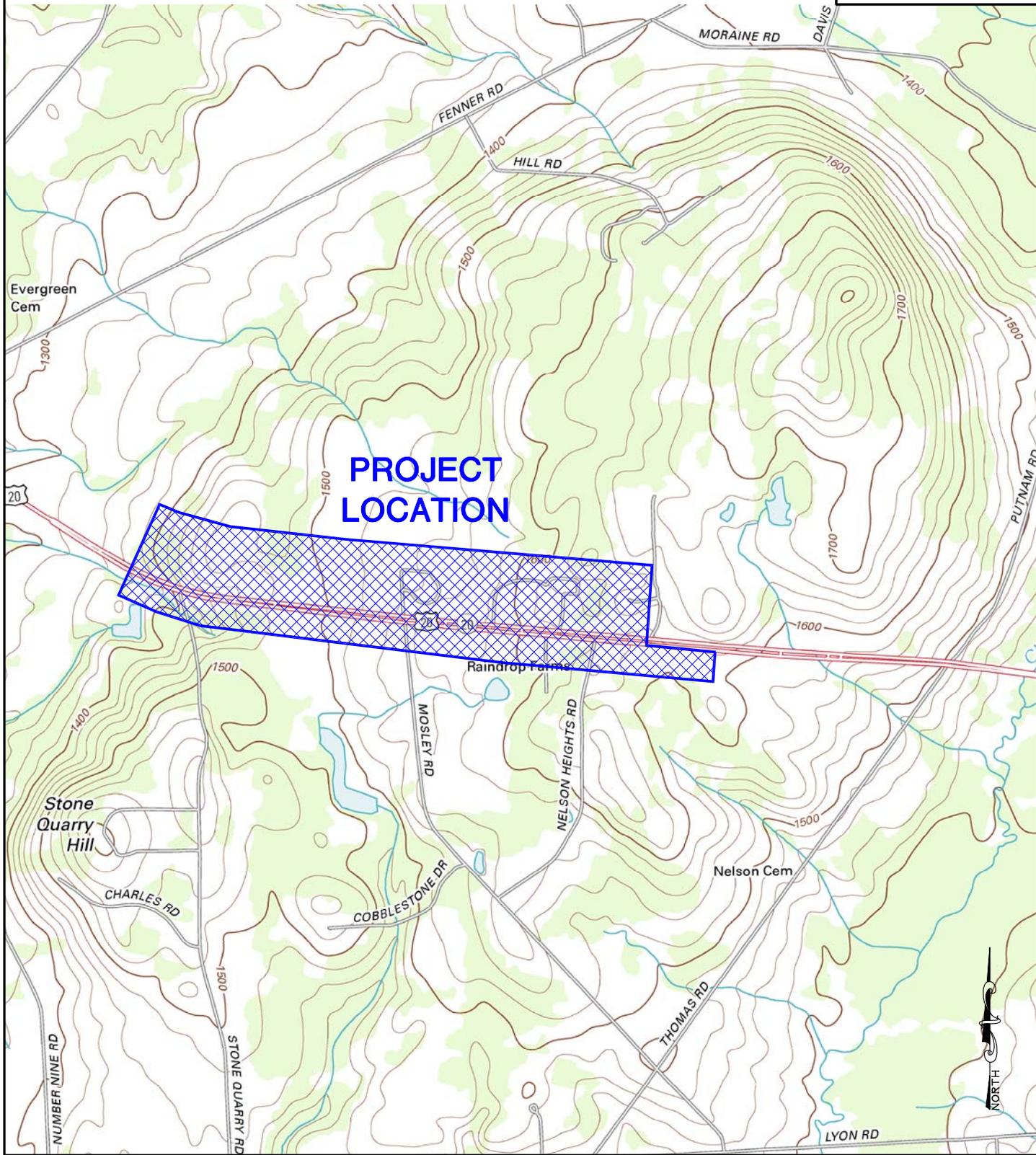


John C. Dunkle, P.E.

JCD/mbs

**APPENDIX A**  
**USGS LOCATION PLAN**

**APPENDIX A**



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TOWNS OF CAZENOVIA/NELSON  
MADISON CO., NY  
**CAZENOVIA/NELSON  
ROUTE 20 WATER DISTRICT**

USGS LOCATION PLAN  
NOT TO SCALE