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## **AGENDA**

### **Business Meeting of the Niagara Falls Water Board July 22, 2024 at 5:00 p.m.**

**Water Treatment Plant Conference Room  
5815 Buffalo Avenue, Niagara Falls New York 14304**

Meeting may be attended in person or via videoconference – visit NFWB.org for details. Please refer to work session packet posted to NFWB.org for copies of documents noted on agenda that are not part of this packet.

#### **1. Preliminary Matters**

##### **a. Attendance:**

**Asklar (Board Member/Chairman of Finance/Member Exec. Staff Review Cmte.) \_\_\_\_\_**

**Forster (Chairman) \_\_\_\_\_**

**Kimble (Board Member) \_\_\_\_\_**

**Larkin (Board Member/Vice Chairwoman/Governance Chairwoman/  
Chairwoman Exec. Staff Review Cmte.) \_\_\_\_\_**

**Leffler (Board Member/Member Exec. Staff Review Cmte.) \_\_\_\_\_**

##### **b. Presentations (None Scheduled)**

**c. Public Comments (All speakers must register with the meeting clerk prior to roll call and are limited to three minutes per person – total time for all speakers may not exceed one hour).**

##### **d. Comments from Chairman Forster**

**i. 2024 Budgeted Expenses - Expenditures of User Rates, Fees, and  
Charges Less Debt Service**

- e. **Letters and Communications**
  - i. **Correspondence from NYS Park Police Commending NFWB Staff for Response to Water Issue**
  - ii. **2024-07-10 – COVID Wastewater Surveillance Update Memorandum**
  - iii. **WWTP Order on Consent Q2 2024 Quarterly Progress Report**
- f. **Prior Meeting Minutes**
  - i. **Draft June 24, 2024 Meeting Minutes**
- 2. **Executive Director & General Counsel – Sean Costello**
- 3. **Operations Executive & Outside Infrastructure Updates – David Conti**
- 4. **Engineering – Douglas Williamson**
- 5. **Personnel Items – David San Lorenzo**
  - a. **July 22, 2024 Personnel Actions**
  - b. **Union Time Paid by Water Board**
- 6. **Information Technology (IT) –Jonathan Joyce**
- 7. **Finance – Michael Smith**
  - a. **Key Bank and Bank on Buffalo Balance Report**
  - b. **Wilmington Trust Balance Report**
  - c. **Treasury Account Balance Report**
  - d. **Capital Payments**
  - e. **Budget Amendments Report**
- 8. **Safety – John Accardo**
- 9. **Questions Regarding June 2024 Operations and Maintenance Report**
- 10. **From the Chairman**

## **11. Resolutions**

### **2024-07-001 – PROCUREMENT OF WTP LEAD HIGH LIFT PUMP**

- a. **2024-07-08 - Fluid Kinetics Quote for WTP Lead High Lift Pump**
- b. **2024-06-19 - Sole Source Letter - Fluid Kinetics as Exclusive Regional Distributor of OEM Floway Pump Products**

### **2024-07-002 – ENGINEERING SERVICES FOR WWTP FLOCCULATION TANK WALKWAYS**

- a. **2024-07-09 - JM Davidson Proposal for WWTP Flocculation Tank Walkway Project Engineering Services**

### **2024-07-003 – PAYMENT FOR EMERGENCY REBUILDING OF WTP LEAD HIGH LIFT PUMP NO. 2**

- a. **Moley Industries Invoices totaling \$43,189.16**

### **2024-07-004 – ACCEPTING CPL PROPOSAL FOR BEECH AVENUE WATER TANK AND WATER MAIN ENGINEERING SERVICES**

- a. **2024-02-19 - CPL Capital Projects RFP Proposal - Material Not Relevant to Resolution Omitted**

### **2024-07-005 – CPL PROFESSIONAL SERVICES EXTENSION**

- a. **2024-06-17 - CPL Services Renewal Proposal - July 2024 through December 2025**

### **2024-07-006 – TWO MONTH MORATORIUM ON PERSONNEL ACTIONS**

### **2024-07-007 – EXTENSION OF TEMPORARY OPERATOR TRAINEE INCENTIVE PROGRAM**

- a. **Draft Memorandum of Understanding**

## **12. Unfinished/Old Business**

## **13. New Business & Additional Items for Discussion**

## **14. Executive Session (if needed)**

## **15. Adjournment of Meeting**



## MINUTES

### Business Meeting of the Niagara Falls Water Board June 24, 2024 at 5:00 p.m.

Water Treatment Plant Conference Room  
5815 Buffalo Avenue, Niagara Falls New York 14304

Meeting could be attended in person or via videoconference.

#### 1. Preliminary Matters

*Chairman Forster called the meeting to order at 5:00 p.m.*

##### a. Attendance:

Asklar (Board Member/Chairman of Finance/Member Exec. Staff Review Cmte.) *Present*

Forster (Chairman) *Present*

Kimble (Board Member) *Present via Videoconference*

Larkin (Board Member/Vice Chairwoman/Governance Chairwoman/  
Chairwoman Exec. Staff Review Cmte.) *Present*

Leffler (Board Member/Member Exec. Staff Review Cmte.) *Present*

##### b. Presentations

##### i. Understanding Sewer Surcharge Conditions – Why Water Backs up Into Basements [*Note: Document in Agenda Packet*]

*Mr. Costello explained that the purpose of this presentation is to provide a refresher for the Board and information to interested members of the public regarding why water sometimes backs up into basements in heavy rain or snowmelt conditions. Basically, pipes of a given diameter can only convey a limited amount of water in a given period of time. When the rain comes too fast and the pipes cannot carry it all away at once, the sewers become surcharged. If the water level rises enough, basements can back up. Mr. Eagler and Mr. Conti added additional context regarding NFWB actions in connection with intense rain events.*

**ii. Overview of Medicare Supplement Plan Enrollment for Retirees Over Age 65 [Note: Document in Agenda Packet]**

*Chairman Forster stated prior to the public comment period that the Board had not taken any action relative to the Medicare Supplement plan and it is not an actionable item for the Board at this meeting.*

- c. Public Comments (All speakers must register with the meeting clerk prior to roll call and are limited to three minutes per person – total time for all speakers may not exceed one hour).**

*Scott Jones, 101<sup>st</sup> St., Niagara Falls, spoke about health insurance coverage for NFWB retirees. He worked at the wastewater treatment plant for over 30 years and feels that the Medicare supplemental plan is being forced on retirees and violates the CBA he retired under. Expressed concerns about network and that if the NFWB makes this change, will it make further changes in the future.*

*Trevor Ganshaw, N. Ridge Rd., Lockport, is Vice President of the Niagara/Orleans Central Labor Council, AFL-CIO, and stated he represents all of its affiliates. He regards the retiree health insurance change as an attack on labor.*

*Melinda Smith, Fairway Dr., Niagara Falls, experienced her home's third sewer backup in 12 years and believes there is an issue with the sewer system East of Hyde Park. Her plumber has quoted her \$10,000 for a "quick stop" device that may help. Ms. Smith was advised that the NFWB camera crew will examine the sewer in her area and invite her to view the footage.*

*William Lutey, Ward Rd. & Cayuga Dr., Niagara Falls, worked in outside maintenance for over 32 years. He expressed concerns about prior approval for a medicine he needs and displeasure about the health insurance change.*

*Tim Huether, Ashland Ave., Niagara Falls, is President of the USW 9434 Amalgamated. His reading of Section 10.1 of the CBA requires the Tier I medical plan to stay in effect for the life of the agreement. He questions why the Union would sit down to renegotiate its three contracts with the NFWB if the NFWB does not honor existing language.*

*Dan Lowes, Pasadena Ave., Niagara Falls, objects to the change to retiree healthcare and states the Building Trades will remember this issue at election time.*

**d. Comments from Chairman Forster**

- i. 2024 Budgeted Expenses - Expenditures of User Rates, Fees, and Charges Less Debt Service**

**e. Letters and Communications**

- i. 2024-06-13 - FEMA Notification of Payment for December 2022 Snowstorm Costs (\$9,285.37)**
- ii. 2024-06-12 – COVID Wastewater Surveillance Update Memorandum**
- iii. Annual Drinking Water Quality Report for 2023**

**f. Prior Meeting Minutes**

**i. Draft May 20, 2024 Meeting Minutes**

*Motion by Board Member Leffler and seconded by Board Member Larkin to approve the draft May 20, 2024 minutes.*

*Asklar   Y   Forster   Y   Kimble   Y   Larkin   Y   Leffler   Y*

*Motion carried, 5-0.*

**2. Executive Director – Sean Costello**

- a. WWTP Project Budget Tracker**
- b. WWTP Construction Schedule Tracker**
- c. Financial Award Summary**

*Mr. Costello explained the proposed “walk on” resolution to award a bid for a sewer repair on Pine Avenue. The defect was discovered when NFWB crews responded to a sinkhole and City Engineering put out the bid on an expedited basis.*

*There is a brief mention of the NFWB in today’s Buffalo News article about PFAS contamination at the Air Base and impacting Cayuga Creek. Our intake is downstream from where Cayuga Creek spills into the little Niagara. This is noted in the article as well as the fact that our drinking water does not exceed EPA or NYS standards. Mr. Costello further noted that NFWB drinking water does not have any PFAS compound at levels which meet or exceed the Maximum Contaminant Level for drinking water. A fact we are very proud of is that drinking water plant has never produced drinking water that has exceeded the Maximum Contaminant Level for any substance.*

**3. Operations Executive – David Conti**

*Mr. Conti discussed scheduled infrared testing at the WWTP. Maintenance staff there replaced a 42” butterfly valve for Intermediate Pump No. 1 starting at 2:00 a.m., a successful operation. Ironworkers are on site at the Gorge Pump Station to replace deteriorated fencing material that encloses the loading dock area, to protect the GPS from unauthorized access and vandalism. Both rapid mix tank propellers at the WWTP fell off their shafts and have been shipped to the supplier to be refurbished.*

**4. Outside Infrastructure Updates – David Conti & Michael Eagler**

**5. Engineering – Douglas Williamson**

*Mr. Williamson noted that his department is beginning to track watermain replacements in the GIS mapping system. Efforts are underway to solve issues related to the concrete walkways at the WWTP sedimentation basins, looking at better/less costly solutions. There were no WWTP SPDES permit violations in May 2024.*

**6. Personnel Items – David San Lorenzo**

- a. **June 24, 2024 Personnel Actions**
- b. **Union Time Paid by Water Board**

*Motion by Board Member Leffler and seconded by Board Member Kimble to approve June 24, 2024 Personnel Actions as set forth on that document.*

*Asklar Y Forster Y Kimble Y Larkin Y Leffler Y*

*Motion carried, 5-0.*

**7. Information Technology (IT) –Jonathan Joyce**

*Mr. Joyce stated there are no significant changes since last week's update, and that NFWB systems continue to operate without critical vulnerabilities identified in ongoing DarkTrace and CISA scans.*

**8. Finance – Michael Smith**

- a. **Revenue Budget Performance Report through 5/31/2024**
- b. **Sewer Fund Expense Budget Performance Report through 5/31/2024**
- c. **Water Fund Expense Budget Performance Report through 5/31/2024**
- d. **Board Fund Expense Budget Performance Report through 5/31/2024**
- e. **Key Bank and Bank on Buffalo Balance Report**
- f. **Wilmington Trust Balance Report**
- g. **Treasury Account Balance Report**
- h. **Capital Payments**
- i. **Budget Amendments Report**

*Mr. Smith stated he has been trained as much as possible by Mr. Majchrowicz in the time prior to Mr. Majchrowicz's departure, but still has much work to do.*



**9. Questions Regarding May 2024 Operations and Maintenance Report**

**10. Safety – John Accardo**

*Mr. Accardo noted plans for Emergency Action Plan training and briefly described an incident involving a power surge from National Grid that damaged the Main Pump 3 variable frequency drive. One employee went to Occupational Health, no severe injury.*

**11. General Counsel and Secretary – Sean Costello**

**12. From the Chairman**

**13. Resolutions**

**2024-06-001 – RENEWAL OF PERMA WORKERS COMPENSATION POLICY**

**a. Workers Compensation Insurance Renewal Proposal**

*Motion by Board Member Larkin and seconded by Board Member Leffler to approve.*

*Asklar   Y   Forster   Y   Kimble   Y   Larkin   Y   Leffler   Y*

*Motion carried, 5-0.*

**2024-06-002 – AUTHORIZING PROCUREMENT OF ELECTRIC VEHICLE AND DISPOSAL OF DIESEL SUV**

**a. McGuire Chevrolet 2024 Blazer EV Quote with Trade In**

**b. Information About EV Tax Credit Eligibility for State and Local Governments**

*Motion by Board Member Larkin and seconded by Board Member Asklar to approve.*

*Asklar   Y   Forster   Y   Kimble   Y   Larkin   Y   Leffler   Y*

*Motion carried, 5-0.*

**2024-06-003 – PROCUREMENT OF VERKADA HARDWARE AND SERVICES**

- a. 2024-05-20 - Insight Quotation 0227429560 – Hardware
- b. 2024-05-20 - Insight Quotation 0227429576 - Software Licenses

*Motion by Board Member Kimble and seconded by Board Member Larkin to approve.*

*Asklar \_\_Y\_\_ Forster \_\_Y\_\_ Kimble \_\_Y\_\_ Larkin \_\_Y\_\_ Leffler \_\_Y\_\_*

*Motion carried, 5-0.*

**2024-06-004 – AMENDMENT TO EXECUTIVE DIRECTOR’S EMPLOYMENT AGREEMENT**

- a. Draft Amendment No. 2 to Costello Employment Agreement

*Motion by Board Member Leffler and seconded by Board Members Kimble and Larkin to approve.*

*Asklar \_\_Y\_\_ Forster \_\_Y\_\_ Kimble \_\_Y\_\_ Larkin \_\_Y\_\_ Leffler \_\_Y\_\_*

*Motion carried, 5-0.*

**2024-06-005 – PROCUREMENT OF SET OF IMPELLERS FOR WTP LEAD HIGH LIFT PUMP NO. 2**

- a. 2024-06-20 - Fluid Kinetics Quote for Set of OEM Replacement WTP Lead High-Lift Pump Impellers
- b. 2024-06-19 - Sole Source Letter - Fluid Kinetics as Exclusive Regional Distributor of OEM Floway Pump Products

*Motion by Board Member Leffler and seconded by Board Member Larkin to approve.*

*Asklar \_\_Y\_\_ Forster \_\_Y\_\_ Kimble \_\_Y\_\_ Larkin \_\_Y\_\_ Leffler \_\_Y\_\_*

*Motion carried, 5-0.*

**Anticipated Additional Resolution for June 24 Meeting:**

- i. W-2024-06-006 – AWARD BID FOR COMBINED SEWER MAIN REPAIR ON PINE AVENUE BETWEEN 15<sup>TH</sup> ST. AND TRONOLONE AVE.  
Note: Pending bid opening scheduled for June 21, 2024.

*Motion by Board Member Larkin and seconded by Board Member Kimble to waive the agenda deadline policy to consider Resolution W-2024-06-006.*

*Asklar \_\_Y\_\_ Forster \_\_Y\_\_ Kimble \_\_Y\_\_ Larkin \_\_Y\_\_ Leffler \_\_Y\_\_*

*Motion carried, 5-0.*

*Motion by Board Member Larkin and seconded by Board Member Asklar to approve Resolution W-2024-06-006.*

*Asklar \_\_Y\_\_ Forster \_\_Y\_\_ Kimble \_\_Y\_\_ Larkin \_\_Y\_\_ Leffler \_\_Y\_\_*

*Motion carried, 5-0.*

**14. Unfinished/Old Business**

**15. New Business & Additional Items for Discussion**

**16. Executive Session (if needed)**

**17. Adjournment of Meeting**

*Motion by Board Member Larkin and seconded by Board Member Asklar to adjourn the meeting at 5:38 p.m.*

*Asklar \_\_Y\_\_ Forster \_\_Y\_\_ Kimble \_\_Y\_\_ Larkin \_\_Y\_\_ Leffler \_\_Y\_\_*

*Motion carried, 5-0.*

**Niagara Falls Water Board  
Personnel Actions and Report  
Monday, July 22, 2024**

**Personnel Actions Sheet & Requested of the Board.  
All appointments are subject to the appointee meeting the minimum qualifications and all applicable Civil Service conditions.**

| <b>A. PERSONNEL ACTIONS RECOMMEND TO HIRE</b> |                              |                             |                          |  |
|---|------------------------------|-----------------------------|--------------------------|--|
| <b>Line Item Number</b>                       | <b>Position</b>              | <b>Department/Location</b>  | <b>Pay Rate or Grade</b> | <b>ADDITIONAL INFORMATION</b>  |
| 1   | CDT Trainee                  | Distribution and Collection | \$17.87-\$21.41/hr.      | Replace departing CDT Trainee.   |
| 2   | Operator Trainee             | WWTP                        | \$20.36-\$22.48/hr.      | To be filled only if vacancy occurs as a result of internal transfer to fill CDT Trainee vacancy.  |
| 3   | Control Maintenance Mechanic | WTP Maintenance             | \$23.83-\$25.95/hr.      | Equipment at the WTP reaching and exceeding life cycle has caused an increased workload at the WTP. With the added projects it warrants hiring a CMM |

| <b>B. RECOMMENDED PROMOTION / MOVE / APPOINTMENT</b> |   |                           |                                    |  |
|--|---|---------------------------|------------------------------------|--|
| <b>Line Item Number</b>                              | <b>Name and Position</b>                      | <b>Type of labor move</b> | <b>Change in pay rate or grade</b> | <b>ADDITIONAL INFORMATION</b>  |
| 1  | Kim Condon / Temporary Part Time WTP Operator | Increase                  | \$30.00 per hr to \$35.00 per hr   | Holds DOH IIA Operator Certification; covers occasional shift openings in extraordinary circumstances where other operators decline overtime. Receiving fewer hours as more trainees are certified and has never received an increase. |

| <b>C. PREVIOUSLY TABLED PERSONNEL ACTIONS</b> |                            |                            |                          |                               |
|---|----------------------------|----------------------------|--------------------------|-------------------------------|
| <b>Line Item Number</b>                       | <b>Action and Position</b> | <b>Department/Location</b> | <b>Pay Rate or Grade</b> | <b>ADDITIONAL INFORMATION</b> |
|   |                            |                            |                          |                               |

| <b>D. OTHER PERSONNEL ACTIVITY FOR BOARD NOTIFICATION</b> |                 |                             |                  |   |
|---|-----------------|-----------------------------|------------------|---|
| <b>Name</b>   | <b>Position</b> | <b>Department/Location</b>  | <b>Pay Rate</b>  | <b>ADDITIONAL INFORMATION</b>   |
| Chris Farris  | CDT Trainee     | Distribution and Collection | \$17.87 per hour | Resigned effective 7/12/2024  |
| Joe Lewis   | WTP Operator    | WTP Operations              | 23.63 per hour   | Has obtained DOH Grade IIA Operator Certification and met required time for automatic promotion from Trainee to Operator. |

| <b>E. PERSONNEL ON LONG TERM LEAVE OF ABSENCE</b> |                        |              |                      |                 |
|---|------------------------|--------------|----------------------|-----------------|
| <b>Name</b>                                       | <b>Last Day Worked</b> | <b>Dept.</b> | <b>Return Status</b> | <b>Comments</b> |
|   |                        |              |                      |                 |

**PROCUREMENT OF WTP LEAD HIGH LIFT PUMP**

**WHEREAS**, the two lead high lift pumps at the Niagara Falls Water Board Water Treatment Plant (“WTP”) are original to the plant; and

**WHEREAS**, on March 30, 2024 High Lift Lead Pump No. 2 failed, and had to be rebuilt on an emergency basis; and

**WHEREAS**, High Lift Lead Pump No. 1 also will need to be rebuilt in the foreseeable future; and

**WHEREAS**, procurement of a new high lift lead pump will allow Pump No. 1 to be taken out of service and rebuilt without losing the critical redundancy provided by having two lead high lift pumps, and the old pump once rebuilt will thereafter be a spare, a measure believed to be prudent given that Pump No. 2 is being rebuilt not replaced and because the lead time for a new pump is 42 weeks; and

**WHEREAS**, the high lift lead pumps were manufactured by Floway, and a replacement in kind is necessary for compatibility with the existing motor, piping, fixtures, and parts; and

**WHEREAS**, Fluid Kinetics, Inc., is the sole source for Floway pump parts in Upstate New York; and

**WHEREAS**, Fluid Kinetics has provided a quote dated July 8, 2024 for a Floway pump to match the existing high lift lead pumps, with upgraded components to meet NSF-61 standards for drinking water, at a total cost of \$233,300;

\* CONTINUED ON NEXT PAGE \*

**NOW THEREFORE BE IT**

**RESOLVED**, that the Niagara Falls Water Board authorizes the Executive Director to procure from Fluid Kinetics, Inc., a Floway pump to match the WTP high lift lead pumps for a total cost not to exceed \$233,300.

*Water Board Personnel Responsible for Implementation of this Resolution:*  
Executive Director

*Water Board Budget Line or Capital Plan Item with Funds for this Resolution:*  
Capital Line WTP-1.1, WTP Large Pump Replacements.  
Capital Line Supplied by: Doug Williamson

On July 22, 2024, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

|                       | <b>Yes</b> | <b>No</b> | <b>Abstain</b> | <b>Absent</b> |
|-----------------------|------------|-----------|----------------|---------------|
| Board Member Asklar   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Kimble   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Larkin   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Sirianni | [ ]        | [ ]       | [ ]            | [ ]           |
| Chairman Forster      | [ ]        | [ ]       | [ ]            | [ ]           |

Signed By:

Vote Witnessed By:

\_\_\_\_\_  
Nicholas J. Forster, Chairman

\_\_\_\_\_  
Sean W. Costello, Secretary to Board



# Fluid Kinetics Inc.

PO Box 655 Orchard Park, NY 14127 (716) 662-7900 Fax: (716) 662-7982

7/8/24

To: Sean Costello  
Executive Director & General Counsel  
Niagara Falls Water Board.

Re: Replacement Pump

Dear Sean.

Fluid Kinetics is pleased to offer the following Floway Pump for your Consideratio. Our Quotation is as follows .

- (1) Floway 28FKH 1 Stage Vertical Turbine Pump with capacity of 11630 GPM at 52" TDH  
Includes Fabricated Steel Discharge Head, 20" Column Pipe. pump to match S/N 15654-1-1/2, and also have NSF-61 components for drinking water.  
Total Price \$ 233,300.00

Note: pricing for pump only no motor pricing included.

Delivery: 42 weeks aro, FOB Factory Freight Included.

If you have any question, please call me at our office.716-662-7900

Robert S. Glace Jr.

  
Parts and Service Mgr.



Floway  
2494 S Railroad Ave  
Fresno, CA 93706  
USA

T +1 559 442 4000  
F +1 559 442 3098  
weirminerals.com

6/19/24

Attention: Weir Floway Inc. Customers

To whom it may concern,

We thank you for your inquiry in regard to Weir Floway products and parts.

The Weir Floway municipal product distribution channel is structured on an exclusive geographic basis. For the upstate New York territory, Fluid Kinetics Inc. is the sole source for all Weir Floway Inc. municipal products. For assistance and complete information on all Weir Floway pumps, equipment and parts, please contact Fluid Kinetics, Inc. as follows:

Robert S Glace Jr  
Fluid Kinetics Inc.  
PO Box 655  
Orchard Park, NY 14127

716-662-7900 (Phone)  
716-662-7982 (Fax)

[rglace@fluidkinetics.net](mailto:rglace@fluidkinetics.net)

If we are favoured with an order, we ask that you issue purchase orders to Fluid Kinetics Inc.

We appreciate your continued interest in Weir Floway Inc. pumps and equipment, and thank you again for the opportunity to serve you.

Sincerely,

Brant Williams  
Municipal Sales Manager – Eastern US



**ENGINEERING SERVICES FOR  
WWTP FLOCCULATION TANK WALKWAYS**

**WHEREAS**, the Niagara Falls Water Board (“Water Board”) has an ongoing project that includes upgrades in sedimentation basins (“Project 1”), required pursuant to Order on Consent R9-20170906-129 with the New York State Department of Environmental Conservation; and

**WHEREAS**, the bid documents for Project 1 included estimated quantities for repairs to the existing concrete in the sedimentation basins, bid based on unit prices, as the exact extent of necessary repairs could not be determined until work was underway; and

**WHEREAS**, as the Project 1 work has progressed, substantial deterioration of concrete in multiple areas has been discovered, and Water Board staff and CPL as the Water Board’s engineers have identified a need to repair concrete on the walkways of the sedimentation basins near where motorized paddle flocculators were removed and replaced with curtain baffles that promote flocculation with no required energy input in connection with an energy efficiency project completed in 2017, an area referred to as the flocculation tanks; and

**WHEREAS**, the Water Board received a quote from the Project 1 General Contractor to perform concrete repairs on the sedimentation basin No. 2 flocculation tank walkways as a change order, but given the substantial cost of the proposed work the Board of Directors instructed Water Board staff to solicit additional bids for the walkway work on basin No. 2 as well as the other basins; and

**WHEREAS**, Water Board staff subsequently developed a concept for total removal of the problematic concrete and installation of new walkways, which may prove a more effective remedy to the concrete deterioration as well as less costly; and

**WHEREAS**, the services of a structural engineer are required to evaluate the project and to prepare design documents upon which a potential change order for Project 1 might be based, and the Water Board has received a quotation for those engineering services dated July 9, 2024 from JM Davidson Engineering, D.P.C., a NYS Certified Women Business Enterprise and Disadvantaged Business Enterprise; and

**WHEREAS**, JM Davidson has proposed to perform the necessary structural engineering services to design the flocculation basin walkway project described herein for total fee not to exceed \$49,500, to be billed on a time-and-material basis; and

\* CONTINUED ON NEXT PAGE \*

**NOW THEREFORE BE IT**

**RESOLVED**, that on behalf of the Niagara Falls Water Board, its Executive Director hereby is authorized to accept the July 9, 2024 proposal by JM Davidson Engineering, D.P.C., to perform engineering services related to wastewater treatment plant sedimentation basin flocculation tank walkway reconstruction, for a total fee not to exceed \$49,500.

*Water Board Personnel Responsible for Implementation of this Resolution:*

Executive Director  
Director of Technical and Regulatory Services

*Water Board Budget Line or Capital Plan Item with Funds for this Resolution:*

CIP Item No. WWTP-1 - Sed. Basins & Scum Collection System Modification  
Capital Line Supplied by: D. Williamson

On July 22, 2024, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

|                       | <b>Yes</b> | <b>No</b> | <b>Abstain</b> | <b>Absent</b> |
|-----------------------|------------|-----------|----------------|---------------|
| Board Member Asklar   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Kimble   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Larkin   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Sirianni | [ ]        | [ ]       | [ ]            | [ ]           |
| Chairman Forster      | [ ]        | [ ]       | [ ]            | [ ]           |

Signed By:

Vote Witnessed By:

\_\_\_\_\_  
Nicholas J. Forster, Chairman

\_\_\_\_\_  
Sean W. Costello, Secretary to Board

July 9, 2024

Douglas S. Williamson, P.E.  
Director of Technical & Regulatory Services  
Niagara Falls Water Board  
5815 Buffalo Avenue  
Niagara Falls, NY 14304

**SUBJECT:       SCOPE AND COST PROPOSAL  
                  NIAGARA FALLS WATER BOARD (NFWB)  
                  WASTEWATER TREATMENT PLANT  
                  WALKWAY RECONFIGURATION OF FLOCCULATION TANKS**

Dear Mr. Williamson,

JM Davidson Engineering, D.P.C. (JMD) appreciates the opportunity to submit the following scope and cost proposal for the above referenced project. JMD is a licensed design professional corporation and has been certified as both a Women Business Enterprise (WBE) and Disadvantaged Business Enterprise (DBE) in New York State.

**SCOPE OF WORK**

JMD will assist the NFWB with the inspection of the walkways over the flocculation tanks upstream of the sedimentation basins and preparation of plan sheets and specifications to reconfigure the walkways as outlined below. The project proposes to remove some of the existing north-south walkways and replace them with steel walkways with open steel grating (see attached **Figure 1**). The project will also include evaluating and designing mounting options for a fall protection davit arm to assist with future access and maintenance of the flocculation tanks. The scope of services and basis of contract shall be as follows, including the assumptions made in developing the scope of work.

1. JMD will attend a kickoff meeting. JMD has already performed preliminary site visits with the NFWB prior to the start of this project to observe existing conditions, develop the project work limits, and discuss design expectations. We have budgeted to attend one additional site meeting with the NFWB, if needed.
2. Review available record plans and information regarding the design and construction of the walkways and flocculation basins.
3. Perform a field inspection, including hammer sounding, of the accessible concrete surfaces of the walkways that will remain and receive the framing for the new walkways. A visual inspection of the underside of the walkways will be made utilizing a pole mounted camera and mirror.
4. Analyze the existing walkways to determine if they have adequate structural capacity to carry the appropriate live loading and the dead load of the new steel walkways. It is anticipated that the new steel walkways will put less load on the existing (east-west) walkways due to their decreased dead load and placement on the walkway.

5. Develop concepts for mounting the fall protection davit arm to assist with future access and maintenance of the flocculation tanks. The two design options to be evaluated are mounting the davit arm to the existing flocculation tank concrete or mounting to the new steel walkway framing. The concepts will be submitted to the NFWB for review, comment and approval before developing a final design.
6. Prepare and submit 30% plans for review and comment by NFWB. It is anticipated the plans will include the following drawings.
  - Cover Sheet
  - General Plan
  - General Notes
  - Demolition Plan and Details
  - Walkway Framing and Details
  - Concrete Repairs and Misc. Details

It is anticipated that the new walkways will be fabricated out of galvanized steel members supporting galvanized steel open grating. The walkways will be of similar construction to walkways, railings and gratings that were installed in the Sedimentation Basin Project 1. The existing railings will be modified to accommodate the new walkway layout. It is assumed that the existing railing will remain where feasible, and parts of the existing railings will be relocated as necessary. A preliminary cost estimate will be prepared for the 30% concept.

7. Prepare and submit 95% design plan sheets and specifications. After comments are received on the 95% submittal prepare final stamped plans, specifications and cost estimate.
8. It is assumed that this work will be included as a change to the existing sedimentation basin project and the JMD scope of services does not include bid phase support or preparation of contract documents associated with preparation of the standard front-end contract, Division 0 or Division 1 specifications. If the NFWB decides to release the project for public procurement, bid document preparation and bid phase support services can be provided under a separate proposal.
9. Construction support services are not included in this scope of services but can be provided, if necessary, under a separate proposal.

## **FEES AND TERMS**

Services described above shall be provided on a Time and Expense basis with a fee not-to-exceed **\$49,500**. Our projected hours and rates are detailed in **Table 1**. Expenses will include actual expenditures incurred in the interest of the project, as detailed in the estimate of expenses in **Attachment 1**.

JMD looks forward to working with you on this project. If you have any questions regarding this proposal, please contact me at (716) 289-5976.

Sincerely,

JM Davidson Engineering, D.P.C.

Michael Davidson, PE  
Structural Engineer

**Table 1 – JMD Proposed Labor Summary**

| Title / Level                                 | Project Manager   | Sr. Structural Engineer | Project Engineer   | Expenses       | TOTAL              |
|---|-------------------|-------------------------|--------------------|----------------|--------------------|
| Hourly Rate                                   | \$165.00          | \$155.00                | \$105.00           |                |                    |
| 1. Kickoff meeting and review background docs | 2                 | 2                       |                    |                | 4                  |
| 2. Review record plans and information        |                   | 4                       |                    |                | 4                  |
| 3. Field inspection                           |                   | 16                      | 16                 |                | 32                 |
| 4. Structural Analysis of Walkways            |                   | 8                       | 6                  |                | 14                 |
| 5. Davit Arm Mounting Concepts                | 2                 | 24                      |                    |                | 26                 |
| 6. Prepare 30% Plans                          | 2                 |                         |                    |                | 2                  |
| <i>Cover Sheet</i>                            |                   | 1                       | 2                  |                | 3                  |
| <i>General Plan</i>                           |                   | 16                      | 4                  |                | 20                 |
| <i>General Notes</i>                          |                   | 2                       | 8                  |                | 10                 |
| <i>Demolition Plan and Details</i>            |                   | 12                      | 4                  |                | 16                 |
| <i>Walkway Framing and Details</i>            |                   | 40                      | 12                 |                | 52                 |
| <i>Concrete Repairs and Misc. Details</i>     |                   | 20                      | 2                  |                | 22                 |
| Preliminary Cost Estimate                     |                   | 6                       | 6                  |                | 12                 |
| 7. Prepare Stamped Plans and Drawings         | 2                 |                         |                    |                | 2                  |
| <i>Cover Sheet</i>                            |                   | 1                       | 2                  |                | 3                  |
| <i>General Plans</i>                          |                   | 16                      | 4                  |                | 20                 |
| <i>General Notes</i>                          |                   | 2                       | 4                  |                | 6                  |
| <i>Demolition Plan and Details</i>            |                   | 12                      | 4                  |                | 16                 |
| <i>Walkway Framing and Details</i>            |                   | 24                      | 12                 |                | 36                 |
| <i>Concrete Repairs and Misc. Details</i>     |                   | 20                      | 2                  |                | 22                 |
| Cost Estimate                                 |                   | 6                       | 6                  |                | 12                 |
| Specifications                                |                   | 4                       | 16                 |                | 20                 |
| <b>HOURS</b>                                  | <b>8</b>          | <b>236</b>              | <b>110</b>         |                | <b>354</b>         |
| <b>TOTAL FEE</b>                              | <b>\$1,320.00</b> | <b>\$36,580.00</b>      | <b>\$11,550.00</b> | <b>\$50.00</b> | <b>\$49,500.00</b> |

**Attachment 1 – JMD Proposed Expenses**

**Mileage**

|                 |           |                 |    |    |   |         |
|-----------------|-----------|-----------------|----|----|---|---------|
| Tonawanda to NF | 2 Trips @ | 25 miles/trip = | 50 |    |   |         |
|                 | Trips @   | miles/trip =    | 0  |    |   |         |
|                 |           |                 |    | 50 | x | \$0.670 |
|                 |           |                 |    |    |   | \$33.50 |

**Tolls**

|                 |           |        |        |  |  |        |
|-----------------|-----------|--------|--------|--|--|--------|
| Tonawanda to NF | 2 Trips @ | \$2.00 | Trip = |  |  |        |
|                 |           |        |        |  |  | \$4.00 |

**Lodging & Per Diem**

\$0.00

**Reproduction**

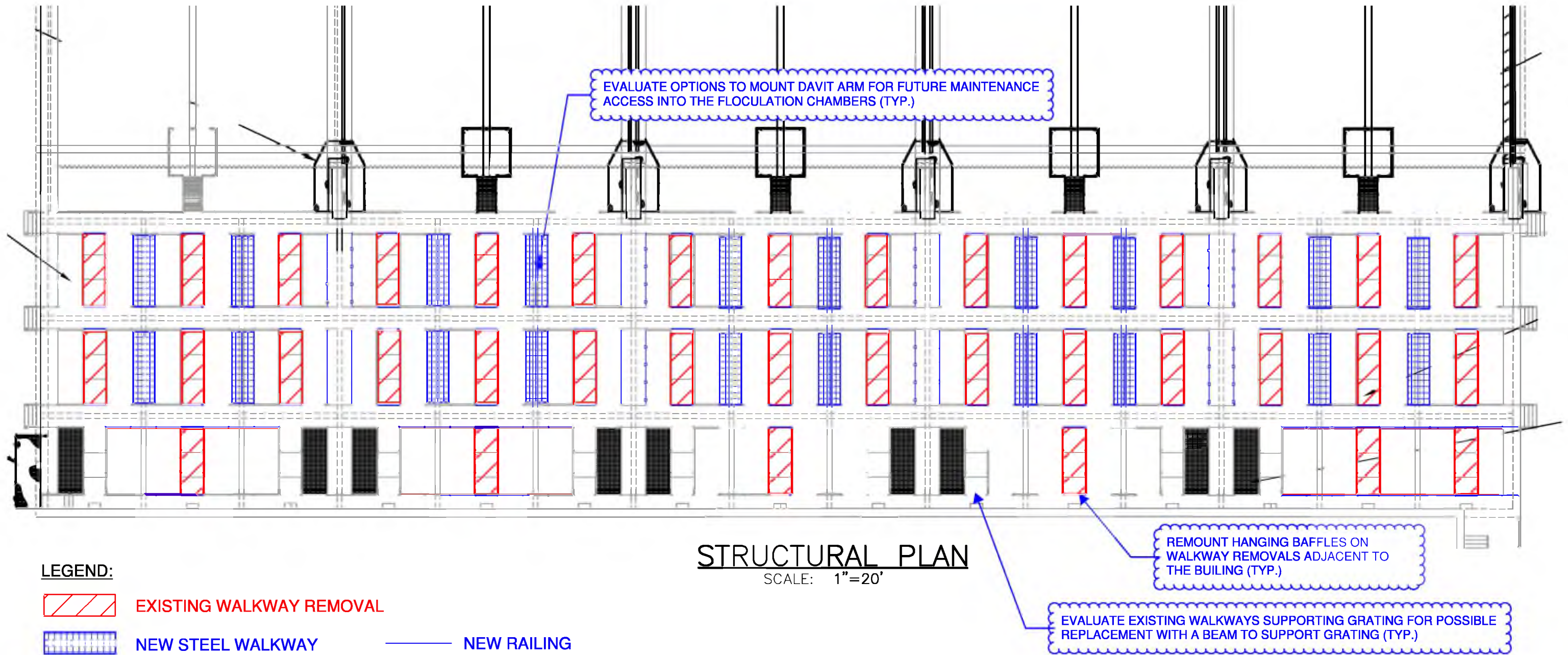
|              |                    |          |   |   |        |        |
|--------------|--------------------|----------|---|---|--------|--------|
| Reproduction | 0 8.5"x11" Color @ | 0 Sets = | 0 | x | \$1.00 | \$0.00 |
| Reproduction | 0 8.5"x11" @       | 0 Sets = | 0 | x | \$0.08 | \$0.00 |
| Reproduction | 0 24"x36" @        | 0 Sets = | 0 | x | \$0.75 | \$0.00 |
| Reproduction | 0 11"x17" @        | 0 Sets = | 0 | x | \$0.15 | \$0.00 |
|              |                    |          |   |   |        | \$0.00 |

**Misc.**

|                           |  |  |  |  |  |         |
|---------------------------|--|--|--|--|--|---------|
| Misc. Expendable Supplies |  |  |  |  |  | \$12.50 |
|                           |  |  |  |  |  | \$12.50 |

**Total Direct Expenses      \$50.00**

**FIGURE 1**





**PAYMENT FOR EMERGENCY REBUILDING  
OF WTP LEAD HIGH LIFT PUMP NO. 2**

**WHEREAS**, the two lead high lift pumps at the Niagara Falls Water Board Water Treatment Plant (“WTP”) are original to the plant; and

**WHEREAS**, on March 30, 2024 High Lift Lead Pump No. 2 failed, and after consultation with WTP Operations Staff, the Acting Executive Director at that time determined that the unavailability of one of the two high lift lead pumps constituted an emergency; and

**WHEREAS**, Moley Industries was contracted to rebuild High Lift Lead Pump No. 2 on an emergency basis, and now has submitted invoices for work performed to date which total \$43,189.16;

**NOW THEREFORE BE IT**

**RESOLVED**, that the Niagara Falls Water Board authorizes the Executive Director to pay to Moley Industries the sum of \$43,189.16 for that firm’s services in connection with emergency rebuilding of WTP Lead High Lift Pump No. 2.

*Water Board Personnel Responsible for Implementation of this Resolution:*  
Executive Director

*Water Board Budget Line or Capital Plan Item with Funds for this Resolution:*  
Capital Line WTP-1.1, WTP Large Pump Replacements.  
Capital Line Supplied by: Doug Williamson

On July 22, 2024, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

|                       | <b>Yes</b> | <b>No</b> | <b>Abstain</b> | <b>Absent</b> |
|-----------------------|------------|-----------|----------------|---------------|
| Board Member Asklar   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Kimble   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Larkin   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Sirianni | [ ]        | [ ]       | [ ]            | [ ]           |
| Chairman Forster      | [ ]        | [ ]       | [ ]            | [ ]           |

Signed By:

Vote Witnessed By:

\_\_\_\_\_  
Nicholas J. Forster, Chairman

\_\_\_\_\_  
Sean W. Costello, Secretary to Board



Parent Company of Moley Electromechanical Solutions and Moley Magnetics and Equipment

Remit To: 5202 Commerce Drive  
 Lockport, NY 14094  
 Tel: 716-434-4023 Fax: 716-434-5893  
 Email: Accounting@moleynyc.com

# Invoice

| Date      | Invoice |
|-----------|---------|
| 3/31/2024 | 32218   |

|   |
|---|
| <b>Bill To</b>  |
| Niagara Falls Water Board<br>5815 Buffalo Avenue<br>Niagara Falls, NY 14304 |

|   |
|---|
| <b>Ship To</b>  |
| Niagara Falls Water Board<br>5815 Buffalo Avenue<br>Niagara Falls, NY 14304<br>Attn: Neil |

| Account | Purchase Order | Sales Order | Terms  | Ship Date | Ship Via     | Rep   |
|---------|----------------|-------------|--------|-----------|--------------|-------|
|         | Verbal Rob     | 29802       | Net 30 | 3/30/2024 | Our Delivery | SH007 |

| Item     | Description   | Ordered | Invoiced | U/M | Rate   | Amount   |
|----------|---|---------|----------|-----|--------|----------|
| Field    | Saturday OT<br>Onsite service to install the above 700HP Motor<br><br>Date: 3/30/24<br>Tech: Nick, Aaron and Jordan<br><br>On-site Contact: Rob Rowe<br>Phone: 716-998-4676 | 19.75   | 19.75    |     | 247.50 | 4,888.13 |
| Shipping | Rush Shipping on Inbound Parts...   | 1       | 1        |     | 729.38 | 729.38   |

*OK TO PAY  
 05/15/2024  
 RR*

|  |   |                         |               |
|--|---|-------------------------|---------------|
| Credit Card Payments are Subject to a 3% Convenience Fee.  |   | <b>Subtotal</b>         | USD 29,854.16 |
| Wiring/ACH Instructions:<br>KeyBank  | Routing: 021300077<br>Account: 321811002161 | <b>Sales Tax (8.0%)</b> | USD 0.00      |
| THE APPLICABLE TERMS AND CONDITIONS OF MOLEY MAGNETICS, INC., AVAILABLE AT THE APPLICABLE LINK(S) BELOW AS OF THE DATE HEREOF, ARE HEREBY SPECIFICALLY INCORPORATED HEREIN BY REFERENCE AND ARE MADE A PART HEREOF AS IF SPECIFICALLY SET FORTH HEREIN. BUYER IS ADVISED TO REVIEW SUCH TERMS AND CONDITIONS BEFORE ENTERING INTO THIS CONTRACT  |   | <b>Total</b>            | USD 29,854.16 |
| <a href="https://www.moleymagneticsinc.com/terms-and-conditions-manufactured-products/">https://www.moleymagneticsinc.com/terms-and-conditions-manufactured-products/</a><br><a href="https://www.moleymagneticsinc.com/terms-and-conditions-repair-services/">https://www.moleymagneticsinc.com/terms-and-conditions-repair-services/</a><br><a href="https://www.moleymagneticsinc.com/terms-and-conditions-distributed-products/">https://www.moleymagneticsinc.com/terms-and-conditions-distributed-products/</a><br><a href="https://www.moleymagneticsinc.com/services/request-material-authorization-rma/">https://www.moleymagneticsinc.com/services/request-material-authorization-rma/</a> |   | <b>Payments/Credits</b> | USD 0.00      |
|  |   | <b>Balance Due</b>      | USD 29,854.16 |



Parent Company of Moley Electromechanical Solutions and Moley Magnetics and Equipment

Remit To: 5202 Commerce Drive  
 Lockport, NY 14094  
 Tel: 716-434-4023 Fax:  
 716-434-5893  
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# Invoice

| Date      | Invoice |
|-----------|---------|
| 3/31/2024 | 32218   |

|   |
|---|
| <b>Bill To</b>  |
| Niagara Falls Water Board<br>5815 Buffalo Avenue<br>Niagara Falls, NY 14304 |

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|---|
| <b>Ship To</b>  |
| Niagara Falls Water Board<br>5815 Buffalo Avenue<br>Niagara Falls, NY 14304<br>Attn: Neil |

| Account | Purchase Order | Sales Order | Terms  | Ship Date | Ship Via     | Rep   |
|---------|----------------|-------------|--------|-----------|--------------|-------|
|         | Verbal Rob     | 29802       | Net 30 | 3/30/2024 | Our Delivery | SH007 |

| Item   | Description   | Ordered | Invoiced | U/M | Rate      | Amount    |
|--------|---|---------|----------|-----|-----------|-----------|
| Repair | R-24-2612<br>General Electric Vertical Motor, 700 HP, 8338P30 Frame,<br>1185 RPM, 4180 Volts, 90.0 Amps. Three Phase, 60 HZ,<br>WPI Enclosure, Model No 5KV83388646502, Serial No.<br>WKH283001758, Code G, Type KV<br><br>Pick up the motor.<br>Disassemble the motor.<br>Meg, surge test and resistance test the stator.<br>Stator passes all tests.<br>TIR all bearing fits.<br>All fits are good.<br>Inspect all parts.<br>All parts are good.<br>Steam clean and bake the stator and all parts.<br>Class Finsulate the stator.<br>Dynamically balance the rotor.<br>Furnish and install new bearings.<br>Furnish and install new bearing RTD's<br>Furnish and install new motor heating assembly<br>Assemble.<br>Test.<br>Paint.<br>Deliver. | 1       | 1        |     | 22,256.65 | 22,256.65 |

|  |                         |
|--|-------------------------|
| Credit Card Payments are Subject to a 3% Convenience Fee.  | <b>Subtotal</b>         |
| Wiring/ACH Instructions: Routing: 021300077<br>KeyBank Account: 321811002161   | <b>Sales Tax (8.0%)</b> |
| THE APPLICABLE TERMS AND CONDITIONS OF MOLEY MAGNETICS, INC.,<br>AVAILABLE AT THE APPLICABLE LINK(S) BELOW AS OF THE DATE HEREOF, ARE<br>HEREBY SPECIFICALLY INCORPORATED HEREIN BY REFERENCE AND ARE MADE A<br>PART HEREOF AS IF SPECIFICALLY SET FORTH HEREIN. BUYER IS ADVISED TO<br>REVIEW SUCH TERMS AND CONDITIONS BEFORE ENTERING INTO THIS CONTRACT  | <b>Total</b>            |
| <a href="https://www.moleymagneticsinc.com/terms-and-conditions-manufactured-products/">https://www.moleymagneticsinc.com/terms-and-conditions-manufactured-products/</a><br><a href="https://www.moleymagneticsinc.com/terms-and-conditions-repair-services/">https://www.moleymagneticsinc.com/terms-and-conditions-repair-services/</a><br><a href="https://www.moleymagneticsinc.com/terms-and-conditions-distributed-products/">https://www.moleymagneticsinc.com/terms-and-conditions-distributed-products/</a><br><a href="https://www.moleymagneticsinc.com/services/request-material-authorization-rma/">https://www.moleymagneticsinc.com/services/request-material-authorization-rma/</a> | <b>Payments/Credits</b> |
|  | <b>Balance Due</b>      |



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|-----------|---------|
| 3/31/2024 | 32218   |

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|---|
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| Niagara Falls Water Board<br>5815 Buffalo Avenue<br>Niagara Falls, NY 14304 |

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|---|
| <b>Ship To</b>  |
| Niagara Falls Water Board<br>5815 Buffalo Avenue<br>Niagara Falls, NY 14304<br>Attn: Neil |

| Account | Purchase Order | Sales Order | Terms  | Ship Date | Ship Via     | Rep   |
|---------|----------------|-------------|--------|-----------|--------------|-------|
|         | Verbal Rob     | 29802       | Net 30 | 3/30/2024 | Our Delivery | SH007 |

| Item  | Description  | Ordered | Invoiced | U/M | Rate   | Amount   |
|-------|--|---------|----------|-----|--------|----------|
| Field | Rush<br>Onsite service to remove 700 hp motor and bring back to Moley shop for repair<br><br>Date: 3/26/2024<br>Tech: Aaron / Jordan<br><br>On-site Contact: Rob Rowe<br>Phone: 716-998-4676 | 8       |          |     | 247.50 | 1,980.00 |

|   |                         |
|---|-------------------------|
| Credit Card Payments are Subject to a 3% Convenience Fee.   | <b>Subtotal</b>         |
| Wiring/ACH Instructions: Routing: 021300077<br>KeyBank Account: 321811002161  | <b>Sales Tax (8.0%)</b> |
| THE APPLICABLE TERMS AND CONDITIONS OF MOLEY MAGNETICS, INC., AVAILABLE AT THE APPLICABLE LINK(S) BELOW AS OF THE DATE HEREOF, ARE HEREBY SPECIFICALLY INCORPORATED HEREBY BY REFERENCE AND ARE MADE A PART HEREOF AS IF SPECIFICALLY SET FORTH HEREIN. BUYER IS ADVISED TO REVIEW SUCH TERMS AND CONDITIONS BEFORE ENTERING INTO THIS CONTRACT<br><br><a href="https://www.moleymagneticsinc.com/terms-and-conditions-manufactured-products/">https://www.moleymagneticsinc.com/terms-and-conditions-manufactured-products/</a><br><a href="https://www.moleymagneticsinc.com/terms-and-conditions-repair-services/">https://www.moleymagneticsinc.com/terms-and-conditions-repair-services/</a><br><a href="https://www.moleymagneticsinc.com/terms-and-conditions-distributed-products/">https://www.moleymagneticsinc.com/terms-and-conditions-distributed-products/</a><br><a href="https://www.moleymagneticsinc.com/services/request-material-authorization-rma/">https://www.moleymagneticsinc.com/services/request-material-authorization-rma/</a> | <b>Total</b>            |
|   | <b>Payments/Credits</b> |
|   | <b>Balance Due</b>      |



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 Lockport, NY 14094  
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# Invoice

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|-----------|---------|
| Date      | Invoice |
| 4/30/2024 | 32491   |

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|---|
| <b>Bill To</b>  |
| Niagara Falls Water Board<br>5815 Buffalo Avenue<br>Niagara Falls, NY 14304 |

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|---|
| <b>Ship To</b>  |
| Niagara Falls Water Board<br>5815 Buffalo Avenue<br>Niagara Falls, NY 14304<br>Attn: Neil |

|         |                |             |        |           |           |       |
|---------|----------------|-------------|--------|-----------|-----------|-------|
| Account | Purchase Order | Sales Order | Terms  | Ship Date | Ship Via  | Rep   |
|         | Verbal Mike    | 29822       | Net 30 | 4/2/2024  | See Below | SH007 |

| Item  | Description   | Ordered | Invoiced | U/M | Rate     | Amount   |
|-------|---|---------|----------|-----|----------|----------|
| Field | Onsite service to change out 20" valve<br>4 Gaskets 20"<br>Date: 4/1/2024 and 4/2/2024<br>Tech: Connor, Aaron, Jordan |         |          |     | 4,950.00 | 4,950.00 |

*OK TO PAY  
 05/15/2024  
 RZ*

|  |                         |                     |
|--|-------------------------|---------------------|
| Credit Card Payments are Subject to a 3% Convenience Fee.  | <b>Subtotal</b>         | USD 4,950.00        |
| Wiring/ACH Instructions: Routing: 021300077<br>KeyBank Account: 321811002161   | <b>Sales Tax (8.0%)</b> | USD 0.00            |
| THE APPLICABLE TERMS AND CONDITIONS OF MOLEY MAGNETICS, INC., AVAILABLE AT THE APPLICABLE LINK(S) BELOW AS OF THE DATE HEREOF, ARE HEREBY SPECIFICALLY INCORPORATED HEREIN BY REFERENCE AND ARE MADE A PART HEREOF AS IF SPECIFICALLY SET FORTH HEREIN. BUYER IS ADVISED TO REVIEW SUCH TERMS AND CONDITIONS BEFORE ENTERING INTO THIS CONTRACT  | <b>Total</b>            | USD 4,950.00        |
| <a href="https://www.moleymagneticsinc.com/terms-and-conditions-manufactured-products/">https://www.moleymagneticsinc.com/terms-and-conditions-manufactured-products/</a><br><a href="https://www.moleymagneticsinc.com/terms-and-conditions-repair-services/">https://www.moleymagneticsinc.com/terms-and-conditions-repair-services/</a><br><a href="https://www.moleymagneticsinc.com/terms-and-conditions-distributed-products/">https://www.moleymagneticsinc.com/terms-and-conditions-distributed-products/</a><br><a href="https://www.moleymagneticsinc.com/services/request-material-authorization-rma/">https://www.moleymagneticsinc.com/services/request-material-authorization-rma/</a> | <b>Payments/Credits</b> | USD 0.00            |
|  | <b>Balance Due</b>      | <b>USD 4,950.00</b> |



Parent Company of Moley Electromechanical Solutions and Moley Magnetics and Equipment

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# Invoice

|          |         |
|----------|---------|
| Date     | Invoice |
| 4/0/2024 | 32474   |

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|---|
| <b>Bill To</b>  |
| Niagara Falls Water Board<br>5815 Buffalo Avenue<br>Niagara Falls, NY 14304 |

|   |
|---|
| <b>Ship To</b>  |
| Niagara Falls Water Board<br>5815 Buffalo Avenue<br>Niagara Falls, NY 14304<br>Attn: Neil |

|         |                |             |        |           |              |       |
|---------|----------------|-------------|--------|-----------|--------------|-------|
| Account | Purchase Order | Sales Order | Terms  | Ship Date | Ship Via     | Rep   |
|         | Verbal Mike    | 29839       | Net 30 | 4/4/2024  | Our Delivery | SH007 |

| Item  | Description   | Ordered | Invoiced | U/M | Rate     | Amount   |
|-------|---|---------|----------|-----|----------|----------|
| Field | Rush onsite service to pull pump<br><br>Date: 4/4/24<br>Tech: Aaron -10 hrs.<br>Connor -10 hrs.<br>Jordan - 10 hrs.<br>Date: 4/5/2024<br>Connor - 6.0 hrs.<br>Jordan - 6.0 hrs.<br><br>On-site Contact: Neil<br><br>Removed flowway pump.<br>Capped open discharge pressure header pipe.<br>Capped open suction.<br><br><i>OK TO PAID<br/>           05/15/2024<br/>           RR</i> | 1       | 1        |     | 8,385.00 | 8,385.00 |

|  |   |                         |              |
|--|---|-------------------------|--------------|
| Credit Card Payments are Subject to a 3% Convenience Fee.  |   | <b>Subtotal</b>         | USD 8,385.00 |
| Wiring/ACH Instructions:<br>KeyBank  | Routing: 021300077<br>Account: 321811002161 | <b>Sales Tax (8.0%)</b> | USD 0.00     |
| THE APPLICABLE TERMS AND CONDITIONS OF MOLEY MAGNETICS, INC., AVAILABLE AT THE APPLICABLE LINK(S) BELOW AS OF THE DATE HEREOF, ARE HEREBY SPECIFICALLY INCORPORATED HEREIN BY REFERENCE AND ARE MADE A PART HEREOF AS IF SPECIFICALLY SET FORTH HEREIN. BUYER IS ADVISED TO REVIEW SUCH TERMS AND CONDITIONS BEFORE ENTERING INTO THIS CONTRACT  |   | <b>Total</b>            | USD 8,385.00 |
| <a href="https://www.moleymagneticsinc.com/terms-and-conditions-manufactured-products/">https://www.moleymagneticsinc.com/terms-and-conditions-manufactured-products/</a><br><a href="https://www.moleymagneticsinc.com/terms-and-conditions-repair-services/">https://www.moleymagneticsinc.com/terms-and-conditions-repair-services/</a><br><a href="https://www.moleymagneticsinc.com/terms-and-conditions-distributed-products/">https://www.moleymagneticsinc.com/terms-and-conditions-distributed-products/</a><br><a href="https://www.moleymagneticsinc.com/services/request-material-authorization-rma/">https://www.moleymagneticsinc.com/services/request-material-authorization-rma/</a> |   | <b>Payments/Credits</b> | USD 0.00     |
|  |   | <b>Balance Due</b>      | USD 8,385.00 |



Parent Company of Moley Electromechanical Solutions and Moley Magnetics and Equipment

5202 Commerce Drive  
Lockport, NY 14094  
Tel: 716-434-4023  
Fax: 716-434-5893

CUSTOMER COPY

# Delivery Slip

|               |
|---------------|
| Sales Order # |
| 29839         |

| Name / Address  |
|---|
| Niagara Falls Water Board<br>5815 Buffalo Avenue<br>Niagara Falls, NY 14304 |

| Ship To   |
|---|
| Niagara Falls Water Board<br>5815 Buffalo Avenue<br>Niagara Falls, NY 14304<br>Attn: Neil |

| Purchase Order # | Rep   | Ship Date | Ship Via     | FOB |
|------------------|-------|-----------|--------------|-----|
| VRBL Mike        | SH007 | 4/26/2024 | Our Delivery |     |

| Item          | Description   | Ordered | U/M | Shipped | Backordered |
|---------------|---|---------|-----|---------|-------------|
| Field         | Rush onsite service to pull pump<br>Date: 4/1/24<br>Tech:<br>Aaron<br>Connor<br>Jordan<br>On-site Contact: Neil<br>Phone: |         |     |         |             |
| Repair        | R-24-TBD  | 1       |     |         |             |
| Field         | Onsite service to install above pump<br>Date: TBD<br>Tech: TBD<br>On-site Contact: Neil<br>Phone:                         | 1       |     |         |             |
| Miscellaneous | 24" Blank Flange and Gasket   | 1       |     | 1       | 0           |

Signature 

Date \_\_\_\_\_

**ACCEPTING CPL PROPOSAL  
FOR BEECH AVENUE WATER TANK AND  
WATER MAIN ENGINEERING SERVICES**

**WHEREAS**, in January 2024 the Niagara Falls Water Board issued a request for proposals for engineering services in connection with various planned capital projects, including for replacement of the Beech Avenue water storage tank, out of service since 1997, and of several water mains including a section of 20-inch water main from the Beech Avenue storage tank to Ontario Street; and

**WHEREAS**, the Water Board has been awarded grant funds which will partially offset the total cost of the projects that are the subject of this resolution; and

**WHEREAS**, while eight of the nine water main replacements that were part of the January 2024 request for proposals were awarded to LaBella, after review of the proposals, CPL has the greatest familiarity with the hydraulic model of the water distribution system and demonstrated experience with water storage tank replacements, and accordingly Water Board staff recommend acceptance of CPL's proposal dated February 19, 2024 to provide engineering services for a total fee, inclusive of design, bidding, construction administration, and construction inspection services, not to exceed \$590,590 for work related to the Beech Avenue water storage tank (Capital Plan Item W2.1) and not to exceed \$235,602 for services related to replacement of the 20-inch water main from the Beech Avenue storage tank to Ontario Street (Capital Plan Item W2);

\* CONTINUED ON NEXT PAGE \*



**NOW THEREFORE BE IT**

**RESOLVED**, that on behalf of the Niagara Falls Water Board, its Chairperson hereby is authorized to execute an agreement with CPL to perform engineering services for a total fee, inclusive of design, bidding, construction administration, and construction inspection services, not to exceed \$590,590 for work related to the Beech Avenue water storage tank (Capital Plan Item W-2.1) and not to exceed \$235,602 for services related to replacement of the 20-inch water main from the Beech Avenue storage tank to Ontario Street (Capital Plan Item No. W-2).

*Water Board Personnel Responsible for Implementation of this Resolution:*

Executive Director  
Director of Technical & Regulatory Services

*Water Board Budget Line or Capital Plan Item with Funds for this Resolution:*

Capital Plan Items: W2 and W2.1  
Capital Items Provided by: D. Williamson

On July 22, 2024, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

|                       | <b>Yes</b> | <b>No</b> | <b>Abstain</b> | <b>Absent</b> |
|-----------------------|------------|-----------|----------------|---------------|
| Board Member Asklar   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Kimble   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Larkin   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Sirianni | [ ]        | [ ]       | [ ]            | [ ]           |
| Chairman Forster      | [ ]        | [ ]       | [ ]            | [ ]           |

Signed By:

Vote Witnessed By:

\_\_\_\_\_  
Nicholas J. Forster, Chairman

\_\_\_\_\_  
Sean W. Costello, Secretary to Board

**“Water You Can Trust”**



NFWB - Water Treatment Plant Roof Replacement



NEWB - 18th Street Watermain Replacement



NFWB - 18th Street Watermain Replacement



**ORIGINAL COPY**

**QUALIFICATIONS AND PROPOSAL**

## **Niagara Falls Water Board (NFWB) Capital Projects Engineering Services**

RFP# 2024-01  
February 19, 2024





February 2, 2024

Douglas Williamson, PE  
Director of Technical & Regulatory Services  
Niagara Falls Water Board  
5815 Buffalo Avenue  
Niagara Falls, NY 14304

**Re: Niagara Falls Water Board (NFWB), Capital Projects Engineering Services (RFP# 2024-01)**

Dear Mr. Williamson and Members of the Board:

On behalf of CPL, I am pleased to present our qualifications for your consideration. Our team is well-suited for this opportunity, given our extensive experience as your partner on various projects since 2017. We possess a deep understanding of your infrastructure, are well-versed in the NYS Environmental Facilities Corporation (EFC) funding requirements, and have ample experience working on multiple projects within large systems.

CPL's collaboration with the NFWB began with securing grant funding for the Bollier Avenue watermain and conducting several assessment studies. Subsequently, we provided management oversight for the \$27 million improvement project at the wastewater treatment facility (WWTF), along with designing and overseeing construction for several capital projects. Additionally, we have successfully secured funding for sixteen projects, with thirteen of them involving the EFC.

Our familiarity with your water distribution system is evident through our work, including the development of a computer water model in 2018 to identify areas of low pressure and determine appropriate watermain sizes for replacement projects. Moreover, we conducted a comprehensive hydrant, valve, and meter assessment study in 2018 to aid in system enhancement.

CPL has a proven track record of navigating funding agencies like the EFC throughout the design and construction phases. We have been instrumental in facilitating coordination between the NFWB and the EFC for the WWTF's \$27 million upgrade, ensuring compliance and timely funding reimbursement.

This proposal request stands out due to its inclusion of capital projects related to both treatment plants and their piping systems. This presents an opportunity for a holistic approach to project planning, benefiting the entire system. Drawing from our experience in numerous communities undergoing system improvements and large-scale regional projects, CPL is well-equipped to guide the NFWB through the initial planning and design phases.

We are able to assist the NFWB in ensuring that Capital Projects are completed within the five year EFC funding timeline. This would be achieved by staggering project design and construction as it would be difficult for the NFWB to have all projects underway at the same time and there are also limited number of contractors that can perform the work. We are also proposing to group several projects together in the bidding process which would allow CPL to offer cost savings to the NFWB.

We are thankful for the opportunity to have completed numerous projects with you over the past few years and look forward to continuing our partnership to further enhance the trust you place in ensuring clean, safe drinking water for the community.

Very truly yours,

CPL

A handwritten signature in black ink, appearing to read "Richard B. Henry, III".

Richard B. Henry, III, P.E.  
President | Principal-in-Charge  
Direct: 585.402.7579 | Mobile: 585.721.8628  
Email: RHenry@CPLteam.com

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Required Forms





## 2. Contract Organization

# We are engineers, architects, planners and technical specialists. We are community leaders, business owners and friends.

## CPL HISTORY AND PHILOSOPHY

CPL is a multi-disciplinary firm that has been serving public and private clients since 1975. We have grown in size from a small civil engineering firm of a half dozen employees to a multi-disciplinary firm of more than 500 professionals in seven states. Our team of dedicated professionals offer expertise in architecture, engineering, planning and construction administration services.

*From your first encounter with members of our team, you will realize that we do things differently here at CPL. We are dedicated to a client-centered philosophy of service that is based on three core beliefs.*

### Our belief in full service.

In developing our business, we made a conscious decision to foster a multi-disciplined team of professionals capable of managing every aspect of your project.

### Our belief in personal attention.

We emphasize the need to be available and accessible to our clients and we stress the importance of communication. Our scheduling and staffing of projects reflect this attitude.

### Our belief in Principal participation.

With every project we undertake being an adventure in collaboration, Principals of the firm are very much “hands on.” This approach supports our goal in making the world a better place through exceptional design, dedicated service and lasting client relationships.

## CORPORATE STRUCTURE

CPL is a privately held (shareholders) Design Professional Corporation (DPC), registered, fully licensed and originating in New York State. Our registered architectural staff includes specialists in educational, civic and healthcare design. Our licensed engineering services include: transportation and traffic engineering, bridge inspection and design, water and wastewater services, environmental services and construction inspection.

## PRINCIPAL-LED

Every CPL contract is personally directed by a Principal of the firm. With their professional reputation and personal integrity on the line, our Principals have genuine ownership in the success of every contract and project.

## FINANCIAL STABILITY

CPL’s current financial position is stable and we have maintained sufficient funding capital to fund and sustain our growth for the last 49 years.

## OUR CULTURE

Rooted in integrity, collaboration and communication, our culture ensures that you will receive the highest level of personalized service – a hallmark of our firm that has garnered years of continued service for our clients.

## CPL BY THE NUMBERS

**1975**

Year Founded

**500+**

Total Staff

**90**

Licensed Architects

**64**

Licensed Engineers

**47**

LEED Accredited Professionals

**Top 50 Architecture-Engineering Firms in the Nation for 2023**

**21**

Offices

**9**

Offices in NY

**7**

AICP Certified Planners

**4**

Landscape Architects

**1**

Environmental Engineer

**Top 500 Design Firms in the Nation since 2014**

## PREVIOUS BUSINESS NAME WITHIN PAST 10 YEARS

CPL Architects, Engineers,  
Landscape Architect & Surveyor,  
DPC

## LEGAL STATEMENTS

- CPL has not been debarred or suspended by any government entity from entering contracts with it.
- CPL is committed to finishing all of its projects, and we are unaware of any failure by our firm to complete any contract awarded.
- CPL is an established, financially stable firm that fosters a tradition of strong profitability and financial prudence. Since 1975, we have efficiently managed assets, monitored expenses and maintained consistent growth. As a result, our firm has experienced a healthy number of repeat clients that continue to bring in steady revenue and allow for lower client acquisition costs.
- There have been no litigation matters or arbitration proceedings that have resulted in finding of negligence, professional malpractice, claims against CPL's professional liability insurance policy, or award of damages on the part of CPL, formerly Clark Patterson Associates, in connection with the firm's professional work. Lastly, CPL has no actual or potential conflicts of interest that will interfere with the demands for completing this assignment. Our proposed team will be committed to meeting the needs of the NFWB through the completion of this project.

# Our Integrated Services

## CIVIL & STRUCTURAL ENGINEERING

From site development, water systems and more, we enjoy projects that have the ability to transform the lives of our families, friends and neighbors.

## MEP ENGINEERING

From the lighting and ventilation throughout your building to the fire protection measures taken, CPL provides smart and seamless solutions to your buildings.

## MUNICIPAL SERVICES & PLANNING

Whether we're gathering data, creating concepts or developing long term plans, we make sure communities have all the tools and resources they need to thrive.

## TRANSPORTATION ENGINEERING

We bring the expertise to ensure your bridge, streetscape, highway, roundabout or parking lot project gives people better access to the world around them.

## ARCHITECTURE

Our industry-leading architects are passionate about creating purposeful designs that reflect your spirit, spur productive change and make lasting impressions.



## LANDSCAPE ARCHITECTURE

At the intersection of beauty and functionality, you will find our team of skilled landscape architects designing gardens, parks, and more.

## INTERIOR DESIGN

Through a strategic lens that balances both form and function, everything you see in a CPL interior space has been meaningfully designed.

## SUSTAINABILITY DESIGN

CPL's Design services are geared to reduce energy use and free up funds to deliver resilient designs that are sustainable and highly functional.

## CREATIVE LABS

CPL Creative Labs is a group of innovators, creative thinkers, and doers, assembled to leverage emerging technologies to influence the design process.





# WATER SYSTEMS

Water supply impacts every aspect of life and we understand the environmental, safety, quality-of-life and economic issues associated with water supply. It is reflected in our approach and service. Our success in meeting clients' water supply needs is demonstrated by our many satisfied clients and long-term professional relationships.



## Our **Water Systems** design experience includes the following services:

- Grant and funding applications related to water system expansions and improvements to existing infrastructure, including the NYSEFC, CDGB, NYSERDA, and USDA-RD.
- Hydraulic flow modeling used by municipalities to plan long range projects, simulate proposed improvements, and identify distribution system deficiencies.
- Design, Bidding, and Construction Services for: New water treatment facilities, and expansions or improvements to existing water treatment facilities. New distribution systems and expansions or improvements to existing distribution systems. This includes water storage tanks, pumps stations, and control vaults.
- Assistance with the water district formation process.
- Representation of County Health Departments for the purpose of reviewing and approving design plans submitted to the County by developers and municipalities.
- Environmental reviews of proposed projects for the purpose of identifying issues that need to be addressed during design. This includes the NYS SEQRA process, Environmental Impact Statements, and SHPO coordination.
- Preliminary Engineering Reports and Facility Plans that define the issues, establish design criteria, and review project costs.
- Water Use Law and Design Criteria development.
- Capital improvement plans that provide a long-range financial plan for municipalities.
- Environmental permitting associated with capital projects, including the NYSDEC, ACOE, and DOH.
- Planning Board reviews related to private developments.
- Water rate studies and budget analysis.



# Grant Funded Projects

## WATER/SEWER SPECIFIC GRANT EXPERIENCE

We are very familiar with various funding programs and agencies that are relevant for public water/sewer projects including **NYS Environmental Facilities Corp. (EFC)**. We can assist in obtaining grants and administering the funding.

The table represents a sampling of NYS projects and sources from which CPL has been able to assist clients in obtaining grants or other low/no interest loans

specific to water and wastewater. This is not an all-inclusive listing of projects. Highlighted in gray are 15 projects that CPL assisted the NFWB in applying for which funding has been awarded.

Although not noted on this list, CPL has been providing EFC and DASNY funding management for the NFWB with the \$27 million wastewater treatment plant improvement project.

| MUNICIPALITY                                | TOTAL COST    | GRANT AMOUNT | LOAN AMOUNT   | FUNDING SOURCE(S) |
|---|---------------|--------------|---------------|-------------------|
| Village of Arcade WWTF                      | \$4,500,000   | \$1,200,000  | \$3,300,000   | EFC               |
| Town of Ashford West Valley Water           | \$3,200,000   | \$1,924,000  | \$1,276,000   | EFC               |
| Town of Batavia West Main Street Sewer      | \$2,200,000   | \$1,600,000  | \$600,000     | RD, SC            |
| Town of Batavia Alexander/Pike Rd Water     | \$1,175,200   | \$289,200    | \$886,000     | RD                |
| Town of Batavia Wilkinson Rd Water District | \$427,300     | \$225,300    | \$202,000     | RD                |
| Town of Batavia Creek Road Water District   | \$1,220,000   | \$500,000    | \$720,000     | RD                |
| Town of Batavia Townline Water Project      | \$6,100,000   | \$0          | \$6,100,000   | LOCAL             |
| Town of Batavia Pratt Rd Water District     | \$2,000,000   | \$750,000    | \$1,250,000   | RD                |
| Village of Bergen WWTF                      | \$2,550,000   | \$0          | \$2,550,000   | EFC               |
| Town of Byron Water District No. 3          | \$143,000     | \$43,000     | \$100,000     | RD & ARRA         |
| Town of Byron Water District No. 4          | \$156,000     | \$62,000     | \$94,000      | RD & ARRA         |
| Chadwick Bay Regional Water                 | \$15,000,000  | \$6,500,000  | \$8,500,000   | ESD, EFC          |
| Cuba Lake Sewer District                    | \$5,300,000   | \$3,400,000  | \$1,900,000   | EFC, ARRA         |
| Village of Elba Water                       | \$3,463,000   | \$2,077,800  | \$1,385,200   | EFC, RD           |
| Town of Elba Water                          | \$17,512,000  | \$3,854,000  | \$13,658,000  | RD                |
| Town of Elma Water Storage Tank             | \$440,000     | \$0          | \$440,000     | LOCAL             |
| Village of Forestville Water System         | \$6,000,000   | \$2,000,000  | \$4,000,000   | EFC               |
| Genesee County Ag-Park Sewer                | \$1,450,000   | \$450,000    | \$1,000,000   | RD                |
| GCEDC Ag-Park Water System                  | \$1,500,000   | \$500,000    | \$1,000,000   | ESD, RD           |
| Town of LeRoy C.W.D. Extension No. 8        | \$542,000     | \$226,000    | \$316,000     | RD                |
| Town of LeRoy C.W.D. Extension No. 10       | \$1,302,000   | \$500,000    | \$802,000     | RD                |
| Village of LeRoy WWTF                       | \$9,000,000   | \$2,250,000  | \$6,750,000   | EFC               |
| LCWSA WWTF Improvements                     | \$5,720,000   | \$1,420,000  | \$4,300,000   | EFC               |
| NFWB Bollier Ave Watermain                  | \$400,000     | \$240,000    | \$160,000     | EFC               |
| NFWB 2018 Water System Improvements         | \$5,495,000   | \$3,000,000  | \$2,495,000   | EFC               |
| NFWB 2021 Water System Improvements         | \$10,025,000  | \$3,000,000  | \$7,025,000   | EFC               |
| NFWB 2023 Water System Improvements         | \$15,240,000  | \$3,000,000  | \$12,240,000  | EFC               |
| NFWB 2021 Water Fluoridation Grant          |               | \$25,000     |               | DOH               |
| NFWB 2022 Lead Service Line Removal         |               | \$472,780    |               | EFC               |
| NFWB LaSalle Sewer Planning Study Phase 1   | \$126,800     | \$100,000    | \$26,800      | EFC               |
| NFWB LaSalle Sewer Planning Study Phase 2   | \$250,000     | \$100,000    | \$150,000     | EFC               |
| NFWB LaSalle Sewer Improvements Phase 2     | \$1,000,000   | \$800,000    | \$200,000     | WQIP              |
| NFWB WWTF Consent Order Items 11 & 14       | \$500,000     | \$500,000    | \$0           | WQIP              |
| NFWB 2021 Sewer System Improvements         | \$4,500,000   | \$2,250,000  | \$2,250,000   | EFC               |
| NFWB 2022 Sewer System Improvements         | \$5,400,000   | \$1,250,000  | \$4,150,000   | EFC               |
| NFWB 2023 Sewer System Improvements         | \$650,000     | \$162,500    | \$487,500     | EFC               |
| NFWB 2023 WWTF Conversion Design            | \$20,000,000  | \$10,000,000 | \$10,000,000  | EFC               |
| NFWB 2023 WWTF Conversion Construction      | \$234,000,000 | \$9,540,800  | \$224,459,200 | EFC               |
| West Seneca Conversion to ECWA Direct       | \$7,500,000   | \$0          | \$7,500,000   | LOCAL             |
| Town of West Seneca Sewer                   | \$30,000,000  | \$5,000,000  | \$25,000,000  | LOCAL             |
| Town of West Sparta Woodsville Water        | \$795,000     | \$600,000    | \$195,000     | RD & ARRA         |
| Village of Wolcott Sewer System             | \$4,000,000   | \$2,600,000  | \$1,400,000   | EFC, SC           |
| Town of York 2011 Water System              | \$1,300,000   | \$0          | \$1,300,000   | LOCAL             |
| Town of York Water Storage Tank             | \$200,000     | \$0          | \$200,000     | LOCAL             |

SED = New York State Education Department  
 RD = USDA Rural Development  
 EFC = NYS Environmental Facilities Corporation

ARRA = American Resource and Recovery Act  
 SC = Small Cities or Governors Office for Community Development  
 ESD = Empire State Development Corporation  
 DOCCS = Department of Corrections

# Quality Assurance and Control

## METHODOLOGY USED TO ASSURE QUALITY CONTROL AND ASSURANCE

The key to developing quality design and construction documents is the continuous involvement of the same project manager who serves as the liaison between the client and the project team, communicating information to staff members via formal and informal meetings. The Principal-in-Charge, Rick Henry, PE, works with the team Project Manager, Seth Krull, PE, to regularly evaluate the project scope to ensure that the project remains on track. Project design review sessions provide the opportunity to confirm that design solutions are aligned with the scope and budget. All CPL professional staff have a responsibility to ensure both a quality design and client satisfaction throughout the life of a project.

### Independent In-house Review

Our work products are independently and objectively reviewed in-house by a professional staff member(s) who is familiar with both the project and the needs of the client, but who is removed from the actual hands-on design.

### Critical Path Schedule

In-house project milestones are strategically developed in the design schedule as checkpoints to review progress of the documents with respect to drawing, specification and interdisciplinary coordination. Critical path decisions are reviewed to make sure the team is prepared to move to the next phase of the design. These checkpoints allow for better quality control as they are performed during each phase of design. This process reduces the number of changes to the documents at the end of the construction document phase and minimizes potential errors created when items are modified at the end of the design.

### Technology Resources

Advances in technology have made a positive impact on quality assurance. With design programs like CIVIL 3D, our project team can work on the same drawing simultaneously. This technology allows for resolution of detail conflicts in real time, allowing our design professionals to solve design issues before they become construction problems. We have established in-house CIVIL 3D standards to reduce the potential for errors and inconsistencies. We regularly review our CIVIL 3D standards to ensure that we are current with design trends. Part of this review includes making recommendations for changes in document preparation, software and training needs.

### Print Review of Drawings and Specifications

We have access to many tools that aid in the quality assurance of our contract documents, including a critical review of each drawing sheet and specification section by an experienced professional. This task involves the review of printed drawings and specifications for content and completeness based on the stage of design. We also employ the use of specially prepared project design checklists, which reference scope items and details that are to be completed for each phase of the design process. With these quality assurance procedures in place, our construction documents are of the highest quality, minimizing the potential for costly changes during the construction period.

**“Quality means doing it right when no one is looking”**  
**-Henry Ford**

# Project Budget Management

We begin every project with a detailed evaluation of the project budget and the creation of a cost model. This allows the team to begin the project with a solid understanding of project cost and uncover potential budget issues. Even in our current market environment we have recent success in delivering projects on budget. Additionally, due to the current escalation and supply issues, it is possible that your project will face market pressure and equipment delays. Our cost estimating approach is designed to account for these types of variables by collaborating with the construction management team and employing a proactive process that includes:

**Designing to a percentage of construction cost**, with the remaining percentage identified as add alternates. Starting in the programming and planning stage, we set the design team's project budget slightly below the funding limit and then create a series of alternates that if taken, will make up the cost gap between the design budget and funding budget. The creation and prioritization of these alternates are discussed early in the project with the intent of building consensus and confidence.

**Real-time cost modeling.** The team works in close collaboration to evaluate design options during the design process. This enables the owner and design team to make design decisions based on scope and price.

**Explore the use early equipment packages**, allowing the contractor or Owner to pre-order long lead and limited equipment. The current post-pandemic economy has created a back-log of specific building products and increases the lead time on building systems and equipment. By seeking a means to procure this equipment early, the project team can help limit construction schedule disturbance, improve construction logistics and reduce delays.

**Track costs on a trade-by-trade basis with a target-value approach.** This links conditions in the market, such as escalation or supply limitations, to each trade based on the specific material or building system being used. Trades such as plumbing have seen limited competition and large price increases. For these trades the team assigns higher trade specific contingencies to buffer the market effects. This approach has been successfully utilized by our team on previous projects.





### 3. Identification and Team Resumes

# Organizational Chart

Team For Water Distribution System Projects:

W2, W9, W13, W15, W17, W21, W24, W25, W29, Alternative 2H



**Richard Henry, III, PE**  
Principal-in-Charge



**Seth Krull, PE**  
Project Manager





# Richard B. Henry III

PE

## Principal in Charge | President

In his 33 years with CPL, Rick has been an integral part of the organization's evolution. His focus on deeply understanding what motivates people and providing engaged leadership has created a culture of trust, accountability and mindfulness in every team he touches. This ability to connect with people has been instrumental in building lasting relationships and finding creative solutions to the problems faced by our clients and communities.

### EDUCATION

Bachelor of Science, Civil Engineering, State University of New York at Buffalo

### PROFESSIONAL REGISTRATION

Professional Engineer: NY, CT, GA, NC, OH, PA, SC

### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- American Water Works Association
- Water Environment Federation
- American Public Works Association
- New York Rural Water Association
- Board Member, Wyoming County Chamber of Commerce (2002-2009)
- Chairman of the Board, Wyoming County Chamber of Commerce (2010 - 2012)
- Board Member, UMMC Foundation (2012 - present)
- Board of Governors, Stafford County Club (2012-2017)
- President Stafford Country Club (2014 - 2017)
- Stafford Country Club Long Range Planning Committee, Chairman (2018 - present)
- Genesee Community College Foundation Board (2011 - present)
- Campaign Chairman, GCC Foundation 2012-2013 Capital

### AWARDS

- Rochester Business Journal, Forty Under 40; 2005
- UB Fast 46 (2021, 2022)

### PROJECT EXPERIENCE

#### Town of Niagara, Town Engineer, Niagara, NY

Principal-in-Charge for projects to support Town infrastructure maintenance and engineering support.

#### Town of Niagara, Veteran's Memorial Park, Niagara, NY

Principal-in-Charge for the Memorial Park Master Plan.

#### City of Niagara Falls, Engineering Support, Niagara Falls, NY

Resource Principal for engineering support for the City of Niagara Falls.

#### Erie County Water, Quality Plan Laboratory, Buffalo, NY

Principal-in-Charge of renovations to accommodate relocation of the ECWA Water Quality Laboratory. Lobby, Process Lab, Lab Storage and utility Rooms were designed.

#### Village of East Aurora, Engineering Support, East Aurora, NY

Principal-in-Charge for projects to support Town infrastructure maintenance and engineering support.

#### Town of Elma, Engineering Support, Elma, NY

Resource Principal-in-Charge for engineering support for the Town of Elma. Significant projects include the

Pond Brook Wastewater Treatment Facility upgrades and Billington Road Water Storage Tank improvements.

#### Town of Elma, Billington Road Water Storage Tank Improvements, Elma, NY

Principal-in-Charge of work that included sandblasting, cleaning and painting the interior and exterior of the 750,000 gallon water storage tank, upgrades necessary to meet OSHA requirements, improvements to the railings and landing, addition of a new access hatch, addition of a fixed ladder to the access hatch and replacement of the vent. Other general improvements were made to enhance the operation of the tank.

#### Town of Ripley, Infrastructure Improvements, Ripley, NY

Principal-in-Charge, for several infrastructure projects that are in the planning and preliminary engineering phase including Water Districts 3 & 4 and Sewer District 2. The districts will provide water and sewer to the NYS Thruway interchange area, which has been designated for development. Rick helped guide the Town in obtaining preliminary funding packages for all three projects, totaling \$2,250,000 in grants. Additional projects include the preparation of an engineering report for the wastewater treatment facility and the water treatment system.



**Jay F. Meyers**

PE

**Project Civil Engineer**

With over three decades of experience in the civil engineering field, Jay is a member of the civil engineering team. He has expertise and specializes in designing solutions for water distribution systems and water treatment facilities, and is an active member of the American Water Works Association (AWWA). Jay's knack for carefully planning each step of a project through to completion, combined with his ability to effectively communicate big-picture ideas to team members, significantly contributes to team success. He spent 28 years as an engineer with the Erie County Water Authority.

**EDUCATION**

- Bachelor of Engineering, Mechanical Engineering, Buffalo State College, Buffalo, NY
- Associate of Applied Science, Mechanical Technology, SUNY Technical College, Alfred, NY

**PROFESSIONAL REGISTRATION**

- Professional Engineer: NY
- NYS Department of Health, Grade IA Operator

**PROJECT EXPERIENCE**

**Niagara Falls Waterboard, Water Loss Study, Niagara Falls, NY**

Civil Engineer for this project that included investigations of the system to determine sources of water system losses. Preparation of a report including recommendations for system improvements to control the unaccounted for water in the system and improve efficiency in the distribution system.

**North Chautauqua County Water District, Dunkirk, NY**

Civil Engineer for this regional project to improve water facilities for municipalities surrounding the City of Dunkirk. The project scope included design, permitting and coordination for over seven miles of water main, 500,000 gallon storage tank, pump station and multiple meter pits to assist with future usage and billing.

**Town of Elma, Water Storage Tank and Pumping Station, Elma, NY**

Project Engineer for this project that included design and layout of the new pumping station and four million gallon water storage tank. Project included preparation of design plans, details and specifications.



**Nick Binnert**

EIT

**Civil Designer**

Nick is responsible for technical design, drafting, report writing and coordinating with review agencies for a variety of project types. Regarded as a hardworking and highly efficient team player, Nick frequently provides designs for water distribution systems, septic systems and water system modeling. One thing he enjoys most about his job is getting to provide safe potable water to communities, while encouraging opportunities for economic development.

**EDUCATION**

Bachelor of Science, Civil Engineering, Rochester Institute of Technology

**PROFESSIONAL REGISTRATION**

Engineer in Training (EIT)

**PROJECT EXPERIENCE**

**Genesee County, Phase 2 Water Design, Genesee County, NY**

Project Engineer for a study that promotes economic development opportunities and reduces health-related concerns pertaining to inadequate wastewater systems, both residential and municipal. The study included a review of various options for providing public sewer systems to the development areas in each municipality.

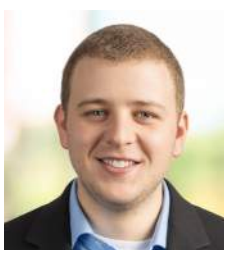
**Livingston County Water Supply Study, Livingston County, NY**

Project Engineer for the regional water supply project to provide reliable and safe water to the majority of Livingston County. The study discusses several alternatives to provide potable water throughout the County for the next 30 years and a detailed cost analysis for each alternative.

**Village of Alfred, Water System Study, Alfred, NY**

Project Engineer for a comprehensive review of the Village of Alfred water system. The project included the creation of a computer model of the water system to identify its weak points and simulate improvements review of the facilities, including pump stations, tanks, and treatment, to ensure compliance with State and Federal standards and regulations. The final report included an implementation schedule outlining the recommendations that were provided throughout the report over the next 20 years.

### 3. IDENTIFICATION AND TEAM RESUMES



## David Hardenbrook

EIT

**Civil Designer**

David focuses on technical design, drafting, technical reports, collection of survey and spatial data, and inspection services. He has completed a wide variety of projects throughout New York State including water distribution systems and wastewater design projects. Prior to CPL, he interned and worked full-time in the Construction Management field with a focus in the construction of healthcare facilities. Managing large crews, David has developed a deep understanding of construction procedures and safety.

#### EDUCATION

Bachelor of Science, Civil Engineering, University at Buffalo

#### PROFESSIONAL REGISTRATION

Engineer in Training (EIT)

#### PROJECT EXPERIENCE

##### **Genesee County Water Supply, Genesee County, NY**

- Phases 2, 2A - Existing Pump Station Upgrades.
- Phase 3 - Completed Hydraulic Analysis, Water Quality Analysis, Water Age Associated with the proposed improvements of providing and additional 7.6 MGD to Genesee County and removing the City of Batavia Treatment Plant from Service.

##### **Inspection Services, Transmission Main Replacement, Town and Village of Naples, NY**

The project included the installation of approximately 12,650 linear feet of 8-inch water main, valves, hydrants and water services on Reservoir Road, NYS Route 53, NYS Route 21, and Eelpot Road. Inspection tasks included water main, hydrants, valves, and water service installation. Pressure testing, flushing, disinfecting, and health sampling.

##### **Town of Leicester, Route 36 Water Main Installation, Leicester, NY**

Technical design services for the installation of approximately 18,000 linear feet of 8-inch watermain along NYS Route 36, Covington Road, and Kingston Road, within the Town of Leicester. Project tasks included hydraulic analysis, permitting and coordination, water main, valve and hydrant layout to meet the standards of NYSDOH, LCDOH, and the Town of Leicester Water Department, Inspection Services Included: Watermain, hydrants, valves, and water service installation, pressure testing, flushing, disinfecting, and health sampling



## Branden Riggs

EIT

**Civil Designer**

Branden is a member of the civil engineering team in CPL's Buffalo office. A former intern, he joined CPL full-time in 2018 and now spends his time providing support for reconstruction, sewer, water and wastewater assignments. He creates 3D models, researches applicable engineering techniques and conducts inspections for projects as necessary.

#### EDUCATION

Bachelor of Science in Civil Engineering, University at Buffalo

#### PROFESSIONAL REGISTRATION

Engineer in Training (EIT)

#### PROJECT EXPERIENCE

##### **Niagara Falls Waterboard, Niagara Falls, NY**

Hydrant Maintenance

##### **Erie County Water Authority, NY**

- Sloan Watermain
- Clarence Watermain

##### **Town of Evans, NY**

Design and Construction of a new elevated water storage tank and associated controls included several pressure reducing valves and siting of the tank.

##### **Village of Ellicottville, NY**

Water System Improvements

##### **Town of Portland NY**

- Water District No. 2
- Van Buren Water District

##### **Town of Ripley, Water Districts 4 and 5, Ripley, NY**

Design, bidding, and construction services related to a new water district

##### **Town of Boston, NY**

Watermain improvement Phase 1

##### **Chautauqua County, NY**

North County Water District





**Luke D. Suleski**

**Engineering Designer I**

As a Junior Project Engineer working with the civil engineering team in our Buffalo office, Luke provides support for anything from industrial and commercial developments to large-scale wastewater treatment and collection assignments. His proficiency in working with several industry best programs, including AutoCAD, Creo Parametric, SAP2000, ArcGIS Pro, SketchUp and Revit, enables him to quickly adapt to meet the specific needs of any project. When he isn't conducting inspections in the field, you can find him creating 3D models, preparing maps and brainstorming innovative ways to improve project infrastructure systems.

**EDUCATION**

- Bachelor of Science, Civil Engineering, University at Buffalo
- Associate in Applied Science, Engineering, SUNY Erie Community College

**PROJECT EXPERIENCE**

**Niagara Falls Waterboard, Niagara Falls, NY**

- Whitney Ave & 77th Ave Watermain Replacement
- 18th Street Watermain Replacement
- West Rivershore Watermain

**Erie County Water Authority, NY**

Cheektowaga French Road Watermain

**Town of Westfield, NY**

Route 5 Water - Phase 2

**Village of Brocton, NY**

Central Ave. Watermain

**Town of Portland, NY**

Water District No. 2

**Town of Pomfret, NY**

VanBuren Water District

**Town of Ripley, NY**

Water District 4

**Town of Stafford, NY**

Water District 12



**Larry D. Werts**

**PE, SE**

**Project Structural Engineer**

Larry is a licensed structural engineer with 25 years of extensive and varied experience. His design expertise includes water treatment facilities, multi-story schools and healthcare buildings, warehouse/distribution structures, hotels and highway bridges. Mr. Werts has completed several projects that required extensive analysis prior to design and renovation of existing structures.

**EDUCATION**

- Bachelor of Science, Civil Engineering Technology, Rochester Institute of Technology
- Associate of Applied Science, Architectural Engineering Technology, State University of New York at Alfred State College

**PROFESSIONAL REGISTRATION**

- Professional Engineer: NY, FL, GA, NC, PA, VA, WV, OH
- Structural Engineer: GA
- Certified Code Enforcement Official: NY

**PROJECT EXPERIENCE**

**Genesee County, Genesee, NY**

Structural Engineer for this project involving the design of new pump stations, transmission mains and other improvements as necessary to bring an additional 2.4 MGD of water into Genesee County.

**Town of Malta, NY Highway Garage**

Structural Engineer for a new highway garage. The design included 12 truck bays, maintenance bay, a truck wash bay, parts storage, locker rooms, restrooms, conference room and departmental offices. The design accommodates the region's heavy snow fall with a steel superstructure on a masonry base with large overhangs on the metal roof. The building's garage doors are oriented on the gable ends of the building to shed snow away from the doors.

**Corinth Central School District, Corinth, NY**

Work consists of various renovations to the Elementary School and Middle/High School including, re-roofing, installation of new windows, and boiler replacement. Work also includes construction of a new 16,000 sq. ft. bus garage and 720 sq. ft. and storage building.

### 3. IDENTIFICATION AND TEAM RESUMES



## Anthony R. Marchetti

PE

**Project MEP Engineer**

Tony has acquired decades of experience in electrical engineering design, implementation and construction management. His expertise includes the design of normal and emergency power distribution systems, lighting systems, life-safety systems and communication systems for assignments involving highly complex municipalities, townships, villages, hospitals and educational entities. He is well-known for his ability to empower, engage and build rapport with almost everyone he comes in contact with.

#### EDUCATION

- Bachelor of Science, Electrical Engineering Technology, State University of New York at Alfred
- Commercial & Industrial Lighting, General Electric Lighting School

#### PROFESSIONAL REGISTRATION

Professional Engineer: NY, NC

#### PROJECT EXPERIENCE

##### **Genesee County Water Supply Program Genesee County, NY**

Project Engineer for the integration of County water resources with the regional water supply systems of the Monroe County Water Authority (MCWA) and the Erie County Water Authority (ECWA) along with the continued use of the City of Batavia Water Treatment Plant.

##### **Livingston County Water and Sewer Authority, Lakeville, NY**

- Lakeville Wastewater Treatment Plant
- Lakeville Wastewater Treatment Plant Biotower
- Tank Replacement
- Rochester Road Sewer
- Project Engineer for replacement of 13 stand-by emergency generators, power and control panel relocations and upgrades at 26 pumping stations throughout the water district.

##### **North Road Booster Pump Station, LeRoy, NY**

Project Engineer for power distribution, lighting and systems design for a water pumping station as part of the Genesee County Water Supply Program.



## Gerald M. May

PE, CPD, LEED AP BD+C

**Plumbing/Mechanical Engineer**

Gerry is an articulate, goal-oriented professional who brings to the table more than a decade of industry experience and an innate desire to persistently hone and share his skills. His experience includes designing heating, ventilation and air conditioning (HVAC) systems for various building projects as well as the production of associated plans and specifications. He carefully selects equipment, performs extensive calculations, ensures energy code compliance and interacts closely with architects and engineers to provide a high-quality, on-time deliverable.

#### EDUCATION

Bachelor of Science, Mechanical Engineering Technology, SUNY College of Technology at Alfred

#### PROFESSIONAL REGISTRATION

Professional Engineer: NY

#### PROJECT EXPERIENCE

##### **Niagara County Water District, Williams Road WWTP HVAC System Upgrades, Niagara Falls, NY\***

HVAC system design for a new combination office / bus maintenance building

##### **Niagara County Water District, Williams Road Treatment Plant, HVAC System Upgrades, Niagara Falls, NY\***

HVAC steam to hot water hydronic system conversion of the water treatment plant

##### **Niagara County Water District, Williams Road Treatment Plant, Chemical Storage Building, Niagara Falls, NY\***

HVAC system design for the chemical storage building

##### **Cattaraugus County, Water Improvements, Cattaraugus County, NY\***

Plumbing domestic water efficiency improvements for two county buildings

##### **Town of West Seneca, NY**

Engineering Services

##### **Stuyvesant Fire District - Fire House Apparatus Building, Stuyvesant, NY**

Plumbing improvements in fire hall

*\* Experience prior to CPL.*



## Matthew Nask

### Junior Electrical Designer I

As a Junior Electrical Designer collaborating with the team in our Buffalo office, Matthew works on building projects involving power distribution systems, lighting and low-voltage systems. His daily tasks include preparing designs and drafting using Revit and AutoCAD. He is also responsible for conducting condition evaluations, preparing reports summarizing acquired data and assisting the marketing team with proposal development as necessary. Matthew strives to utilize his knowledge and expertise to produce optimal engineering results in support of CPL's long-term objectives.

#### PROJECT EXPERIENCE

##### Niagara Falls CSD, NY

- A Breath of Fresh Air Ph 2
- ARP Grant
- Maintenance Garage Reconstruction
- Smart Schools

##### Erie County DPW, NY

Holding Center Water Tank

##### City of Lackawanna, NY

City Hall

##### Town of Arkwright, NY

- New Town Building
- Pole Barn Addition
- Vehicle Storage Addition

##### City of Jamestown, NY

New Fleet Maintenance Garage

##### Ken-Ton UFSD, 2020 Capital Improvement Plan, Buffalo, NY

- Phase 1B
- Phase 2B
- Phase 3
- Smart Schools

##### Buffalo Public School, Buffalo, NY

HVAC Upgrades

##### St. Bonaventure University, NY

- Graduate Student Housing
- Plassmann Hall Renovation



## Wade Starnes

### Senior Construction Project Manager

Wade is a Senior Construction Project Manager at our Buffalo office, boasting over two decades of dynamic leadership in diverse construction settings. Recognized for his innovative approach to project planning and problem-solving, he has excelled in achieving project milestones and goals throughout his career and is dedicated to delivering project success, stakeholder satisfaction and the highest quality of work.

#### EDUCATION

- Master of Science, Environmental Management, University of San Francisco
- Bachelor of Science, Civil Engineering, University of Michigan

#### PROJECT EXPERIENCE

##### Town of Portland, NY

Water District 12

##### Town of Eden, Town Hall Exterior Envelope Rehab, Eden, NY

Roof replacement and masonry rehabilitation.

##### Village of Alfred, NY

Water System Improvements

##### Roswell Park Cancer Institute, South Campus Chilled Water Plant, Buffalo, NY\*

Managed the design and construction of a \$10M chilled water plant on the roof of existing structure from inception to closeout in 9 months. Project involved reinforcing the existing structure, construction of new rooftop support structures, and coordination of chilled water tie-ins to four different buildings.

##### City of Lackawanna, Franklin Park Splash Pad, Lackawanna, NY

Engineering services related to full-time construction observation/administration services for the installation of a CMU block bath house, utility connections to road, series of spray pads, replacing and installing a new playground, and an asphalt parking lot.

\* Experience prior to CPL.

# Extraordinary projects are made from extraordinary relationships.

Diversity and inclusion are priorities of CPL's culture. We build intentional meaningful working relationships with Diverse Business Enterprises. When building our teams, we select consulting firms based on their expertise, and work together to eliminate barriers to their participation in public contracts - not to fill a goal.



## NIAGARA BOUNDARY & MAPPING SURVEY SERVICES

Established in 1976, Niagara Boundary & Mapping has been proudly serving Western New York for over four decades. They specialize in addressing today's intricate land issues by leveraging cutting-edge technology and expertise. As a full-service land surveying firm, their commitment to accuracy, efficiency, and client satisfaction sets them apart, ensuring that every project is executed with precision and excellence. With a dedication to staying at the forefront of industry advancements, they deliver solutions that meet the evolving needs of their clients while upholding the highest standards of quality and professionalism.



## NW CONTRACTING (WBE) GEOTECHNICAL SERVICES

NW Contracting was founded in 1989 as a petroleum remediation contractor specializing in bio-remediation. Since then, their services have grown to include geotechnical subsurface investigations/drilling, and more. The NW Contracting drilling division maintains truck mounted and ATV mounted drilling rigs as well as direct push units. Many of the NW highly trained drill crews have over 20 years of drilling experience. NW Contracting has completed thousands of borings on hundreds of sites in the past 30 years. Many of these projects have been for the NYPA, NYSCC, NYSDOT, NYSDEC as well as local and county agencies.



## WATTS ARCHITECTURE & ENGINEERING (MBE/DBE) HAZARDOUS MATERIALS TESTING | ABATEMENT DESIGN DOCUMENTS | CONSTRUCTION ADMINISTRATION

Watts Architects & Engineers is a professional design services, minority-owned, architecture and engineering firm with over 80 employees. They work hand in hand with each of their clients to realize enduring designs and plan trustworthy foundations—to create space for what matters. That includes proactively managing both budgets and timelines throughout the course of every project—until the job is done. Many of their strongest partnerships have spanned decades, because they earn every opportunity and then, through collaborative success, earn the next one (and the next one). Founded in 1986 as a sole-proprietorship, environmental engineering firm by Edward O. Watts, PE, the firm has since evolved into a professional architecture and engineering design firm, with interconnected office locations in Buffalo, Rochester, Syracuse, and New York City.



Schenne & Associates

## SCHENNE & ASSOCIATES (SDVOSB) INSPECTION SERVICES

Since its inception in 1993, Schenne & Associates has provided Engineers, Architects, Geologists, and Planners with a variety of professional skills and expertise. They have extensive experience in both large and small scale projects for private clients, public agencies, and institutions. Their office is able to offer clients expertise in a complete range of design disciplines. The size of their firm offers some unique advantages in that we are large enough to handle complex, multi-disciplined projects, yet small enough to provide personalized attention to each project. They pride themselves on their established reputation for creative response and cost-effective design.

*As a New York State business, it is important to CPL to support our local economy by promoting other NYS enterprises by partnering on NYS contracts.*



## **4.** Project Understanding, Approach & Similar Experience

# Our project approach is personalized to your process but rooted in our project design experiences.



## PROJECT UNDERSTANDING & LOGISTICAL CAPABILITIES

Niagara Falls Water Board (NFWB) is looking for a partnership with an Architectural/Engineering firm to help with Capital Projects that have received NYS Environmental Facilities Corporation (EFC) funding which are to be used within five years from date of funding agreement.

CPL has been working with the NFWB since 2017 assisting with management services, funding, project oversight as well as capital project design. CPL values our relationship with the NFWB and looks forward to the opportunity for providing assistance with these additional Capital Projects that will greatly improve the infrastructure that NFWB is responsible for.

The Capital Projects involve various components at the Water Treatment Facility, Wastewater Treatment Facility, an aged brick sewer main, several watermain replacements and a new water storage tank with pump station.

## SCOPE OF SERVICES

Consistent with the RFP, the following tasks are included in our proposal.

### ■ Task 1: Survey

Boundary & Topographic information will be obtained by a local, licensed surveyor for the watermain and storage tank projects. The area of survey for watermain will be length of main replacement and width of 20 feet beyond street right of way. For the storage tank, the survey area will be boundary of property plus 20 feet. All surface features and underground utilities will be collected.

For the water plant roof, an assessment of existing facilities will be performed.

Soil boring samples will also be taken about every 400 feet at a typical depth of 8 feet and deeper where needed such as 30 feet at railroad crossing for Capital Project W2. Several deep drills will be performed at the tank site to aid in foundation design for the new tank.

Environmental hazard testing for lead will be performed at the storage tank while lead, PCB tests will be performed on the water plant roof.

### ■ Task 2: Conceptual Design

No conceptual design is anticipated as CPL is submitting on Capital Projects that are not noting needing conceptual design within the RFP.

### ■ Task 3: Design Documents

Preparation of design documents will be separated into three stages of 50%, 75% and final. CPL will meet with NFWB staff to review documents at the end of 50% and final design. Cost estimates will also be prepared at 50% and final design.

If requested, CPL will attend two board meetings during the project to provide updates.

This task will also include coordinating with regulatory agencies such as County Department of Health, NYS Department of Health, NYC EFC, NYS Department of Transportation, NYS Department of Environmental Conservation and City of Niagara Falls for their approval prior to construction.

Please note that Capital Project W2 involves several railroads and special coordination is required. CPL will prepare design documents to the railroad requirements and obtain their approval. Our scope of work and fee does not include any design application review fees, permit fees or construction inspections fees. These fee amounts can be large and are difficult to know at project start. CPL will inform the NFWB of these fees soon as they are known.

### ■ Task 4: NYS EFC Reporting

As NYS EFC funding is involved, the design documents will be prepared to include requirements and regulations of this agency such as Minority Women Business Enterprises (MWBE) and American Iron Steel (AIS) compliance. As the NFWB has their own MWBE & SDVOB policy, these documents will also be part of the design documents.

During bid and construction, CPL will oversee the MWBE process of utilization plans, waivers and quarterly reports are submitted by contractors for review by the NFWB.

We will also review construction material submittals to ensure compliance with AIS regulations and provide documentation to the EFC.

CPL will also oversee the document collection process that is required by EFC at the end of construction.

### ■ Task 5: Bidding Assistance

CPL will prepare bid advertisement, electronic bidding and paper bidding documents. We will also publish in a local paper and several online construction exchanges.

A prebid meeting will be held if needed to describe project to potential bidders.

We will collect bid questions and address with addendum. We will also conduct bid openings at the NFWB office, prepare bid tabulations, evaluate bidders, provide recommendation letters, prepare conformed documents, prepare agreements, prepare notice of awards & to proceeds and conduct a post bidding meeting with low bidder and the NFWB.

### ■ Task 6: Construction Administration

The following will be provided during construction. Documentation will be supplied to NFWB for record keeping.

- Review of shop drawings
- Obtain AIS certificates
- Process payment application once a month during construction.
- Progress meetings every two months during construction.
- Tracking of work changes and change orders if needed.
- Coordination between NFWB, contractor and funding agency as needed.
- Perform final inspection and prepare punch list.
- Prepare as-built drawings and obtain any warranty information.

### ■ Task 7: Construction Inspection

The following will be provided during construction. Documentation will be supplied to NFWB for record keeping.

- Site inspection daily or as needed during work.
- Reports for each day the inspector is on site which will note work performed, weather, time work performed, construction companies on site along with staff and equipment. It will also include photographs.
- Notification to NFWB and Contractor when work is deficient.
- Ensure all necessary testing, startups and training are performed in presence of appropriate personnel.
- Accompany regulatory agencies or other officials who need to visit the construction sites.
- Keep track of any work changes which are to be part of record documents.

Please note full time inspection will be provided as needed during construction of the watermain and storage tank projects. There may be periods of time where work occurs only for several hours a day or requires hiatus. CPL will adjust inspection time as needed to match these adjusted schedules during work.

For the Water Plant roof project, full time inspection is not needed for a project of this type. Instead, CPL will perform a site review every two weeks after or before the bi-weekly project construction meeting.

### FAMILIARITY WITH THE PROJECT AREA

CPL has been involved with many projects for the NFWB since 2017, either through studies, design and management oversight with the following examples:

- Water system hydraulic model and report.
- Fire Hydrant pressure testing
- Beech Ave water storage tank report
- Various design, bid & construction projects at water & wastewater treatment plants.
- Assist with 2017-2023 funding applications for water & sewer improvements.
- Sewer Plant \$27 million capital project design and construction oversight.
- Prepared design, bid and construction documents along with construction management and inspection for 18th Street watermain. Also, currently in design of watermain replacement projects for 77th Street and West Rivershore Drive.
- Water system assessment of hydrants, valves and meters management practices.

#### 4. PROJECT UNDERSTANDING, APPROACH & SIMILAR EXPERIENCE



CPL has further familiarity with the project areas by working with other entities. For example, the firm has worked with the City of Niagara Falls in providing general engineering assistance during the 2010's. CPL is also working with the Niagara Falls Aquarium for building improvements and the Niagara Falls School District with major facility renovations to a majority of their buildings.

#### PROJECT TEAM

When you walk into any of our offices, you will notice that our people are intermingled throughout the space. This results in true collaboration amongst all the disciplines in the office. This is also true regarding the way CPL works as an organization, as every core group works together towards a common goal, to be successful and to provide excellent service to our clients.

As a result, the NFWB truly has the resource of 500 people at CPL at your disposal. We would encourage you to visit <https://cplteam.com/services>, which will provide you with a full list of services we provide. An example is our technology team that can scan the exterior and interior of buildings, creating digital models, imagery that allows people to remotely walk-through spaces, and digital renderings of new spaces.

With that in mind, we also recognize that a core group of people and familiar faces is needed. These people are listed in the organizational chart starting with Rick Henry (Principal-In-Charge) and Seth Krull (Project Manager), as your primary points of contact for every project. Additional staff members, which include Jay Meyers, Branden Riggs, Luke Suleski and Kisha Patterson have worked with the NFWB on prior projects. Also, our subcontractors, Niagara Boundary Survey, NW Contracting and Schenne & Associates have partnered with CPL on prior NFWB projects. Together, our team is familiar to the NFWB and strives to provide outstanding service.

#### FAMILIARITY WITH NYSEFC

Funding for these Capital Projects will be provided by the NYS Environmental Facilities Corporation (EFC). CPL has worked with this funding agency and many other NYS agencies over the past several decades. We are very familiar with EFC's requirements during funding application, design approval, construction management and funding reimbursement requests.

Since 2017, we have assisted the NFWB in applying for 16 funding applications of which 13 received EFC funding totaling \$14 million in grants. In addition, CPL has been performing project oversight with the ongoing \$27 million wastewater treatment facility improvement project which is being funded by EFC and DASNY.

Our understanding of the EFC requirements and familiarity with EFC staff allows CPL to ensure compliance and funding reimbursements.

#### MWBE AND SDVOB PARTICIPATION

We understand that Minority and Women's Business Enterprise (M/WBE) and Service-Disabled Veteran Owned Business (SDVOB) participation is encouraged for all projects with the NFWB. This is due to the goals established by the various funding agencies, including the New York State Environmental Facilities Corporation (NYSEFC).

CPL is very familiar with these requirements, with recent projects with the Village of Warsaw, Village of Akron, Village of Elba, Village of Brocton, Village of LeRoy, Town of Darien, and Livingston County Water & Sewer Authority. Our typical approach is to meet or exceed the participation goals established for each project, but occasionally we do request a waiver. The M/WBE and SDVOB firms includes on our project team are as follows:

1. **NW Contracting (WBE)** – Geotechnical services, environmental review, etc.
2. **Watts Architecture & Engineering (MBE/DBE)**- Hazardous Materials Testing, Abatement Design Documents, Construction Administration
3. **Schene & Associates (SDVOSB)** – Inspection services



## Section 2.

# Water Distribution System

Projects W2, W9, W13, W15, W17, W21, W24, W25, W29

### A. PROJECT SCOPE OF WORK

The Niagara Falls Water Board (NFWB) maintains and operates a water distribution system that serves the City of Niagara falls with an approximate population of 50,000 people. The system consist of 260 miles of water main that range in size from 2 inches to 30 inches and is comprised of several materials such as cast and ductile iron. Several of the watermains are smaller diameter mains that serve customers via service laterals while the other watermains are larger diameter that provide water transmission throughout the system.

A majority of the watermains within the system are aged, especially within the City center districts which result in poor water quality, undersized mains and frequent breaks. To ensure proper service to customers and firefighting capability, watermains need to be replaced when they are not fully functioning.

The NFWB maintains a Capital Improvement Plan which has identified watermain sections that are in need of replacement. Nine sections of watermain totaling approximately 20,000 feet are to be replaced as part of this proposal request.

Replacement would include installing new ductile iron or polyvinyl chlorine watermain along with new service laterals, valves and hydrants. Work is to be within the road right of ways and also include any pavement, curb, sidewalk and lawn restoration. Once new watermains are functional, the existing watermains would be abandoned in place. Any existing lead service with the road right of way would be removed and replaced with a new copper service.

The watermain projects will require approval from regulatory agencies such as NYS Environmental Facilities Corporation, NYS Department of Health and NYS Department of Transportation. Please note that Capital Project W2 "20 inch main Ontario Street" is located on property owned by railroad companies. Coordination is required for their design during approval and also during construction. CPL has worked on prior water and sewer projects that involved crossing railroads and we are familiar with their requirements.



# Niagara Falls Water Board

## Water, Wastewater and Storm Sewer Facilities

In 2017, the Niagara Falls Water Board was in need of engineering assistance to help plan, maintain and operate their water, wastewater and storm sewer facilities within the City of Niagara Falls. The Water Board is responsible for servicing service over 56,000 residents and 12-14 million visitors per year. For this, each day approximately 20 million gallons of clean water is produced along with 30 million gallons of treated wastewater.

In working closely with Water Board staff, CPL has been able to provide immediate help while also implementing projects that will continue to provide improvements. Initially recommendations were made to expand water system distribution and hydrant maintenance. As part of this, a City

wide water hydraulic model was prepared to allow Water Board to investigate parts of distribution system in need of replacement both near and long term along with determining how repair projects could affect service.

As the Water Board has many facilities, typical maintenance and emergency repairs are a constant effort. To lessen these tasks on Water Board staff, CPL prepared and oversaw implementation of maintenance and emergency repair contracts that allow staff to quickly and efficiently manage these tasks without delays for Board approval.

CPL has also prepared engineering documents for large improvements to buildings, site facilities and system piping. This includes

managing the bid process and overseeing construction. CPL also prepared several grant applications to New York State agencies and since 2017 has received over \$3.3 million in grants and \$30 million in no/low interest loans that will allow the Water Board to implement additional improvements to their system. Additional grant applications are in progress for several large-scale distribution system projects.

CPL will continue to assist Water Board staff with needed maintenance repairs, capital improvement planning, design duties and construction oversight.

**Location:** Niagara Falls, NY  
**Client:** Niagara Falls Water Board  
**Completion Date:** Ongoing



# Albany Water Board

## Engineering Services on Task Order Basis



**Location:** Albany, NY  
**Client:** Albany Water Board  
**Completion Date:** Ongoing

In 2022 CPL was pleased to begin providing professional engineering services to the Albany Water Board relating to miscellaneous planning, design and construction phase for the following services:

- Water Source, Treatment, Storage and Distribution
- Wastewater Collection and CSOs
- Stormwater Collection and Treatment
- Structural Engineering
- Process Control and Instrumentation
- Mechanical, HVAC and Electrical Engineering
- Surveying and Mapping

The Scope of Work includes miscellaneous Planning, Reports, Design and Construction Phase support services; Permitting and SEQRA; Grant Writing support; Support for emergency repairs and replacements; Support for Emergency Plans; Support for Regulatory Compliance

- Projects:
- Capital Improvement Evaluation
  - Upper Service Pump Station Improvements
  - Harriman Campus Pump Station Improvements
  - Feura Bush Lime Feed Upgrade

# North Chautauqua County Water District Regional Water System

**Location:** Chautauqua, NY

**Client:** Chautauqua Bay Regional Development Corporation (CBRDC) and Chautauqua County

**Est. Cost:** \$35 million

**Completed:** Ongoing

CPL is working with the CBRDC to develop a regional water system that will provide a reliable and safe water supply well into the future. In addition to providing design services, our role in facilitating inter-municipal cooperation and public engagement is critical to the success of this project. The design strategy involves the continued use of the City of Dunkirk water treatment plant, connection to the Erie County Water Authority (ECWA) in Silver Creek, and the extension of existing water supply systems throughout the Chadwick Bay area.

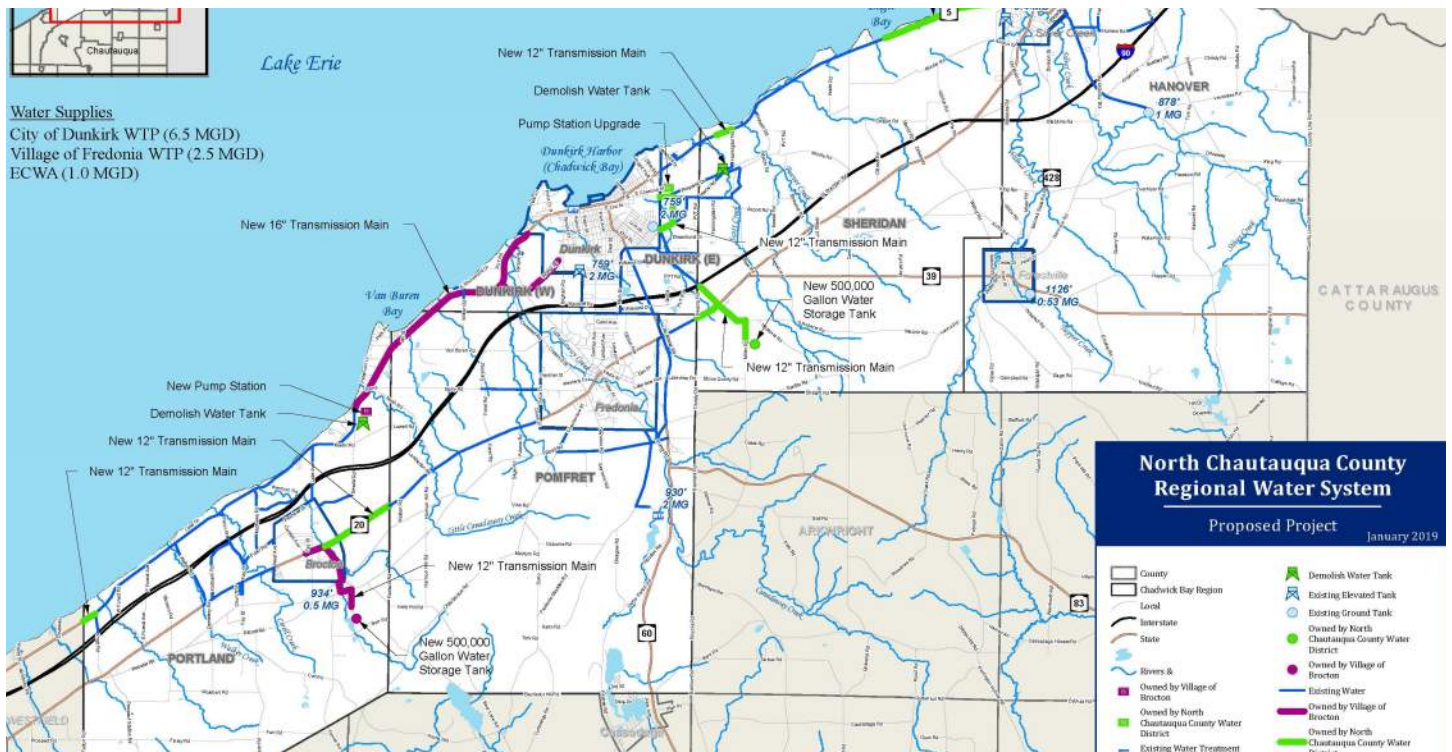
The Regional system will initially supply the City and Town of Dunkirk, Town of Pomfret, Town of Portland, Town of Sheridan, and the Villages of Brocton and Fredonia. The Town of Hanover and the Village of Silver

Creek currently purchase water from ECWA.

Overall the project included upgrades at the City of Dunkirk water treatment plant, two new 500,000 gallon water storage tanks, a new large booster pump station, upgrades to an existing booster pump station, and the installation of 80,000 linear feet of water main (8-inch to 16-inch diameter). The total project cost was \$35,000,000. The work at the City WTP was funded and completed directly by the City.

The remaining work directly involved the Water District and CPL, broken up into 2-phases. Funding was obtained from several sources, with assistance from CPL, including \$2,000,000 in grants from the NYS ESD; \$5,000,000 in grants from the NYSEFC; \$960,000 contribution from the NYS Dept of Corrections; and \$7,500,000 in loans from the NYSEFC.

CPL was also responsible for the design, permitting, bidding, and construction of the various contracts. The permitting included the NYSDOT, State and local Health Department, NYSDEC, County Highway, NYS Dept of Ag & Markets, SHPO, and the NYSEFC.



# Genesee County Water Supply Program

**Client:** Genesee County  
**Location:** Genesee County, NY  
**Est. Cost:** \$56 million  
**Completed:** Ongoing

## COMPREHENSIVE APPROACH

CPL assisted Genesee County in developing a county-wide water distribution system. Our efforts began in 1997 when the Genesee County Legislature created the Genesee County Water Resources Agency (GCWRA) to assist in addressing on-going water problems.

Working closely with the GCWRA and local officials, CPL facilitated the inter-municipal collaboration needed to resolve the many water-related problems facing the County.

The resulting Genesee County Water Supply Program involved the integration of County water resources with the regional water supply systems of the Monroe County Water Authority (MCWA) and the Erie County Water Authority (ECWA) along with the continued use of the City of Batavia Water Treatment Plant.

Also responsible for project design, in Phase I of the Program the firm designed 65 miles of new water main, three new water storage tanks and five new pump stations as well as the integration of four separate water supply sources. The impact of the investment in the Genesee County Water Supply Program is comprehensive and far-reaching. It is designed to provide reliable, high-quality water well into the next century.

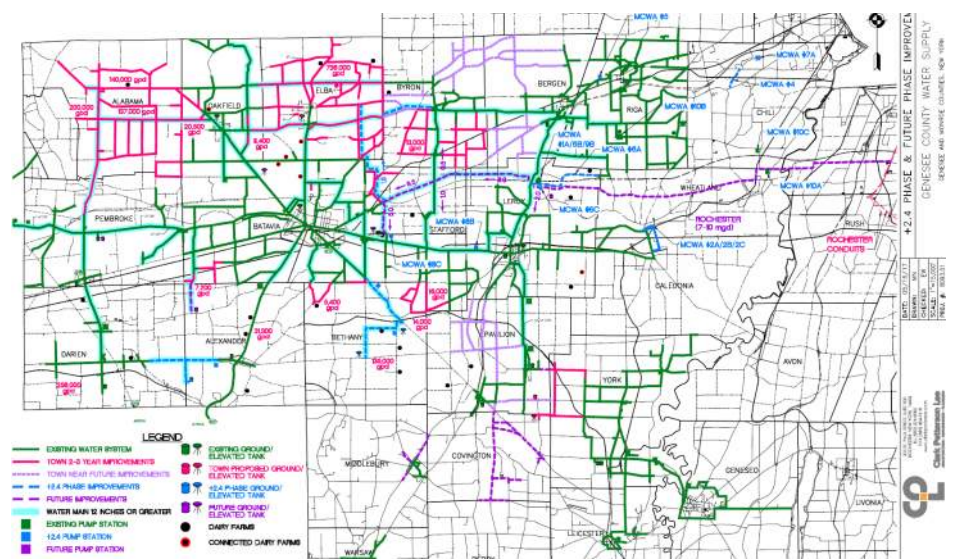
## IMPROVED WATER QUALITY AND DELIVERY

- Improvements in water quality, especially in the Village and Town of Oakfield, Town of Pembroke and the Town of Pavilion. For example, the new system has provided water to the Village/Town of Oakfield, replacing the existing municipal well supply located in close proximity to a federally designated Superfund waste site.
- Enhanced system reliability through financial, operational and managerial assets of the Monroe County Water Authority.
- Replacement of aging infrastructure, most notable is the 75-year-old City of Batavia water treatment plant that was in need of major process renovations.
- Provision of public water supply to the three school districts (Byron-Bergen, Pavilion, and Pembroke) that were on insufficient well systems.

- Expanded public water service in the Towns of Pavilion, Darien, Stafford, Oakfield, Batavia, Pembroke, and LeRoy.

## CONTINUED EXPANSION IN PHASE II

In 2017, the County embarked on an ambitious plan to provide service to other areas of the County. Phase II of the Program involved 28 miles of new water main, 5 new pump stations, upgrades to 5 existing pump stations, rehabilitation of 4 water storage tanks and additional upgrades to the Batavia Water Treatment Plant. These improvements provide water to the Town and Village of Elba, Town of Alabama, Town and Village of Alexander, Town of Bethany, and enhance supply in areas that were considered in Phase I of the Program.



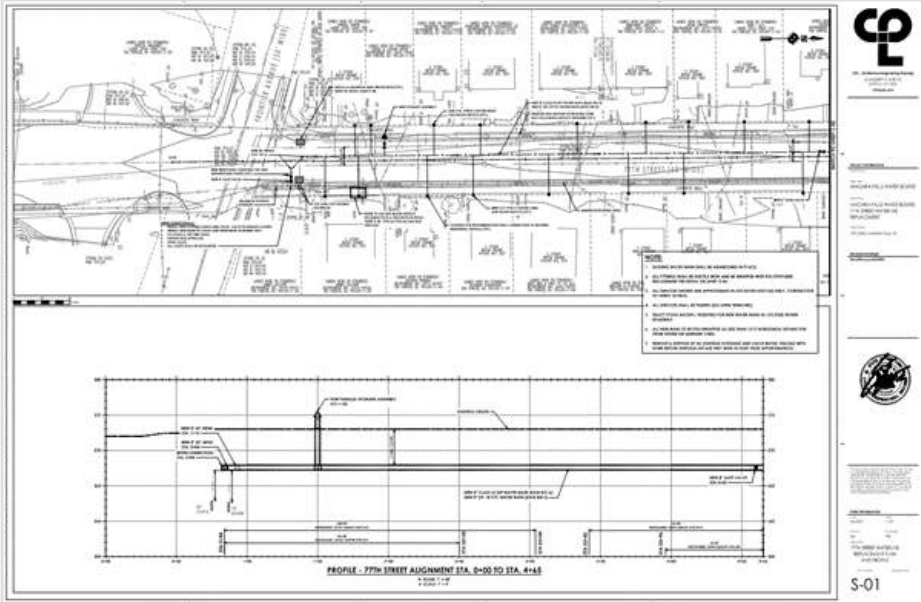
# Niagara Falls Water Board

## 77th Street Watermain Replacement



**Client:** Niagara Falls Water Board  
**Location:** Niagara Falls, NY  
**Design Date:** 2023  
**Completion Date:** Anticipated 2024  
**Cost:** \$2 million

77th Street is a residential street in the LaSalle section of Niagara Falls. The Water Board is seeking to abandon approximately 3,000 feet of aged watermain with new 8 inch watermain. This project is part of the Water Board's Capital Improvement Plan that seeks to improve infrastructure within the City. Work is proposed along 77th Street from the LaSalle Expressway to Niagara Falls Boulevard.



Replacement of this main will allow for a newer and higher capacity main within this section of the water system. The new main will be located underneath the street with new service connections, hydrants and valves. Any existing lead services within the road right of way will be eliminated as part of this project. Work is anticipated to start mid to late 2024.

# Niagara Falls Water Board

## 18th Street Watermain Replacement



**Client:** Niagara Falls Water Board  
**Location:** Niagara Falls, NY  
**Completion Date:** 2023  
**Cost:** \$1.8 million

The Niagara Falls Water Board maintains a Capital Improvement Plan for which replacement of an aging 20 inch water transmission main was part of. This main is a larger main within the water distributions system and has been inactive for some time. Replacement was desired to allow large amounts of water to be conveyed to the northern section of water system.

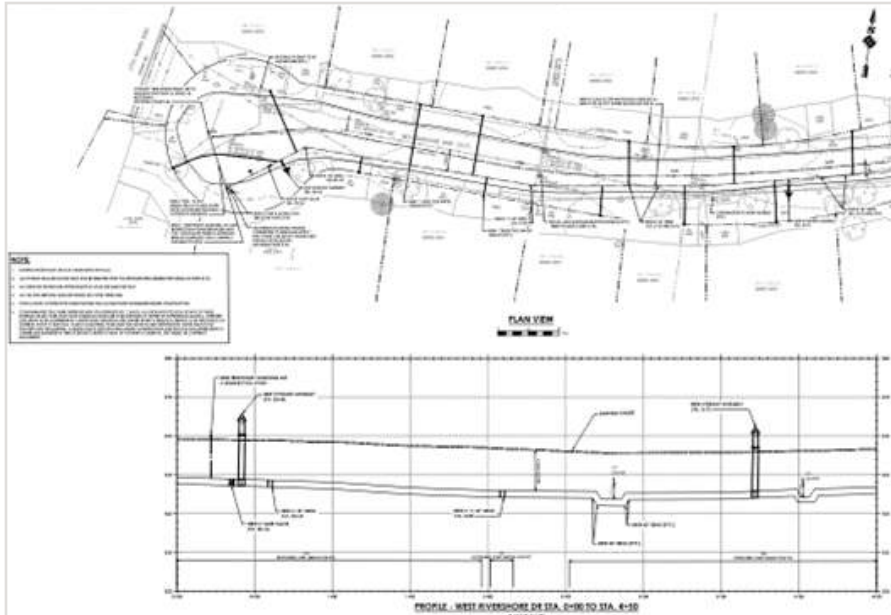
CPL worked with the Water Board to determine how to replace the main. As the main was inactive, it was decided to excavate the existing main and install a new main in the same location. This helped

to reduce construction disturbance and abandonments. Overall, 3,100 feet of 20 inch cast iron main was replaced with 16 inch PVC main from Whitney Ave to Ontario Ave within the City. Several new fire hydrants were added to the new main which provided enhanced firefighting protection.

During construction, CPL worked with the Water Board and Contractor to perform additional work such as extra pavement restoration and installation of an additional watermain along Ontario Ave. Construction was completed over 3 months and was under budget.

# Niagara Falls Water Board

## West Rivershore Drive Watermain Replacement



**Client:** Niagara Falls Water Board  
**Location:** Niagara Falls, NY  
**Design Completion:** 2023 & 2024  
**Construction:** Anticipated 2024  
**Cost:** \$2.1 million

Cayuga Island is located along the Niagara River within the City. It contains many residences with several aged watermains. Replacement of main along West Rivershore Drive has been part of the Water Boards Capital Improvement Plan to improve water quality and service to residents. 3,600 feet of new 8 inch watermain is proposed along with new hydrants, valves and water service connections.

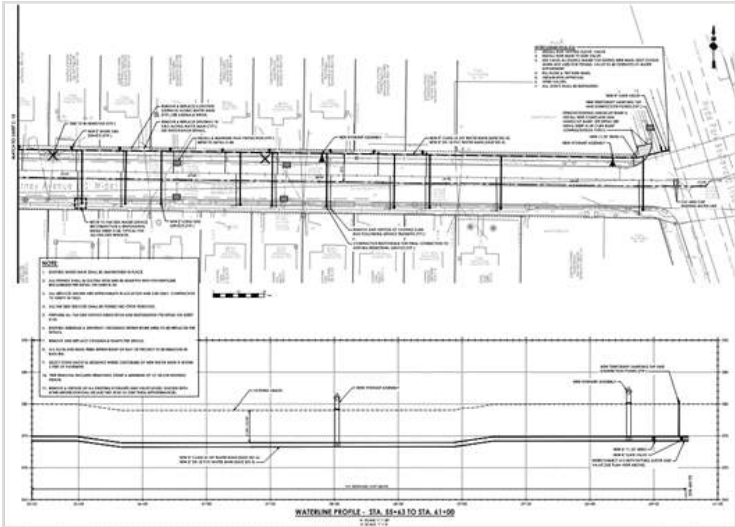


An automated flushing device will be installed at the end of West Rivershore Drive to ensure proper water quality at this dead end of the watermain. Any existing water services containing lead material will be abandoned. Final design work is in progress with construction anticipated for 2024.



# Niagara Falls Water Board

## Whitney Avenue Watermain Replacement



**Client:** Niagara Falls Water Board  
**Location:** Niagara Falls, NY  
**Design Completion:** 2023  
**Construction:** N/A  
**Cost:** \$3.2 million

The Niagara Falls Water Board maintains a Capital Improvement Plan for which included replacing an eight inch watermain along Whitney Avenue from 11th Street to Hyde Park Boulevard. Whitney Avenue is an established street within the City that contains many houses, existing utilities, trees and sidewalks.

As the City recently paved the street, it was decided to install 6,100 feet of new 8 inch PVC watermain underneath the sidewalk. As the

project contained many side streets, it was paramount that the design plans included traffic control and detour plans.

Design was completed in, and permits obtained in 2023 for which the Water Board decided not to proceed with bidding and construction.

# Village of East Aurora

## Watermain Replacement

**Client:** Village of East Aurora

**Location:** East Aurora, NY

**Completion Date:** 2018

In 2016 the Village of East Aurora hired the CPL Team to design, bid and provide construction services for the Sycamore Street Water Main Replacement project. The project consisted of the installation of approximately 3,000 linear feet of 8" High Density Poly Ethylene (HDPE) and ductile iron water pipe along Sycamore Street to replace the old, undersized and failing watermain.

In addition, some valves and interconnections on streets leading to Sycamore Street were modified to allow for better flow and operation within the water system. There were concerns related to running the watermain underneath the roadway surface due to the roadways existing construction, therefore the water main was installed between the curb and sidewalk.

Sycamore Street contains a multitude of mature trees that add to the character of the neighborhood and it was very important to the Village to avoid tree removal or damage. As such, a professional arborist was hired to locate trees that were already dying and should be removed as well as tree root zones that should be avoided with heavy equipment during construction. As such, the plans were marked to show areas where the contractor would install HDPE water main utilizing directional drilling under trees to avoid conflict with root structures that cannot be avoided when installing water main via digging a trench. This mitigated the removal of approximately 20 mature trees along this roadway. The old water main was abandoned in place and older valves and hydrants were removed.



# Section 3.

## Water Distribution System

### Project Alternative 2H

#### A. PROJECT SCOPE OF WORK

The Niagara Falls Water Board (NFWB) water plant produces approximately 21.3 million gallons of day to serve the City of Niagara Falls with a population of 50,000 people. Storage facilities within the system are critical to maintain proper pressures and flows during peak demand and emergencies. Currently, the NFWB has minimal storage facilities with 1.3 million gallons Water Plant clear well and 2 million gallon 56th Street elevated tank. A third facility is the 2 million gallon Beech Avenue elevated tank which was deactivated in 1996.

To provide more system storage, the NFWB is proposing to demolish the existing 2 million gallon Beech Avenue tank and construct a new 4 million gallon ground storage tank with a prepackaged pump station. This new tank would double system storage capacity and allow NFWB to provide water storage and consistent pressures in the northwest section of the City.

The Beech Avenue site is approximately 2 acres in size and contains a 2 million gallon elevated tank that is 150 feet tall. A control building, electrical equipment, fencing and other site amenities also exist. Cellular communication devices are located on the elevated tank storage section.

The work is to include construction of a new 4 million gallon ground mounted tank with pre-packaged pump station, driveway and parking area, security fencing, drainage and tank safety equipment. New facilities will be pressure tested, flushed and chlorinated prior to being placed in service. Modifications to existing watermains that serve the site will be needed to properly connect the new tank and pump station. Please note that removal of existing tank and relocation of cellular equipment is not part of this work scope and noted with the 2023 Water System & Storage Tank Engineering Report.



# City of Poughkeepsie

## College Hill Concrete Water Storage Tanks

**Client:** City of Poughkeepsie

**Location:** Poughkeepsie, NY

**Completion Date:** 2019

**Cost:** \$5.5 million

To provide water storage to better fit the needs of the City of Poughkeepsie, CPL designed two concrete water storage tanks, each with a 2.5 million gallon capacity, near existing reservoirs.

The tanks feature watertight roofs which exclude birds, animals, insects, and excessive dust. Fencing and other necessary precautions will be provided to prevent trespassing, vandalism, and sabotage. A 16" diameter overflow pipe in the tank will direct water to a catch basin adjacent to each tank, which will direct the overflow through an 18" diameter pipe to the open reservoir.

Access hatches are fitted with a solid water tight cover which overlaps the framed opening and extends down around the frame at least two inches, hinges on one side, and has a locking device. A vent is provided in addition to the overflow pipe, and will be constructed so as to prevent the entrance of surface water or rain water. An 8" drain line is provided for each tank which will be directed to the overflow pipe. This will allow draining of a tank for maintenance if required.

Safety was considered in the final design of the tanks. Ladders, ladder guards, balcony railings, and safely located entrance hatches will be provided.





# 5. Project Schedule

# Anticipated Schedule

## ANTICIPATED DESIGN AND CONSTRUCTION SCHEDULE

As funding is being obtained from the NYS Environmental Facilities Corporation (EFC), it is our understanding that funding is to be used within five years from the date of agreement signing between the NFWB and EFC. Within this time constraint, it can be challenging to complete all these projects due to multiple projects, material availability, agency approval and local contractor availability. CPL is familiar with these constraints as having dealt with the EFC and similar projects with the NFWB and other municipal clients.

Below is the anticipated schedule for the eleven projects that CPL is submitting on. We have assumed schedule based upon award of all noted projects. From this, we have combined projects into several groups which allows for staggering of work. This provides the following benefits.

- Projects occur over time and not all at once, which can be overwhelming for NFWB and regulatory agencies.
- Allows for greater focus by NFWB and CPL to achieve best project outcomes.
- Enables the limited number of area contractors who can perform the work to complete projects within EFC 5 year timeframe.
- CPL staff that the NFWB are familiar will be involved with all projects over the schedule timeframe. This also includes construction inspectors who will know NFWB expectations and be a consistent presence on all the projects.
- CPL is able to offer cost savings by performing repetitive tasks on multiple projects such as bidding several projects together.

Timeframes are approximate based upon past experience on similar projects and working with the involved agencies (EFC, DOH, DOT). The timeframes are dependent upon regulatory agency response time, bid pricing compared to budget, material availability, weather and contractor availability to bid. CPL understands that the objective is to have projects completed within a five year timeframe from EFC agreement date. Once authorized and prior to start of work, CPL will discuss our anticipated schedule with the NFWB and adjust as needed. CPL will also keep the NFWB updated on schedule as projects progress.

CPL can also discuss with NFWB opportunities to improve schedule by grouping certain projects, so they are designed at and or bid at the same time.

| NFWB Capital Project  | Length of Watermain (ft) | Timeframe (Month)               |              |                    |                                 |        |                    |              |         |              |        |              |        |        |              |        |        |        |        |         |         |         |        |        |        |        |        |        |        |        |        |         |         |         |        |        |
|---|--------------------------|---------------------------------|--------------|--------------------|---------------------------------|--------|--------------------|--------------|---------|--------------|--------|--------------|--------|--------|--------------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
|   |                          | 4/1/24                          | 5/1/24       | 6/1/24             | 7/1/24                          | 8/1/24 | 9/1/24             | 10/1/24      | 11/1/24 | 12/1/24      | 1/1/25 | 2/1/25       | 3/1/25 | 4/1/25 | 5/1/25       | 6/1/25 | 7/1/25 | 8/1/25 | 9/1/25 | 10/1/25 | 11/1/25 | 12/1/25 | 1/1/26 | 2/1/26 | 3/1/26 | 4/1/26 | 5/1/26 | 6/1/26 | 7/1/26 | 8/1/26 | 9/1/26 | 10/1/26 | 11/1/26 | 12/1/26 | 1/1/27 | 2/1/27 |
| W2 - 20 inch main from Beech Avenue Storage Tank to Ontario Street                                | 4,185                    | Survey, Geotech, Initial Design |              | Preliminary Design | Final Design                    | Bid    | Construction       |              |         |              |        |              |        |        |              |        |        |        |        |         |         |         |        |        |        |        |        |        |        |        |        |         |         |         |        |        |
| W9 - 10th Street & Michigan Ave - Lockport St to Ontario St & 10th St to 11th St                  | 2,150                    | Survey, Geotech, Initial Design |              | Preliminary Design | Final Design                    | Bid    |                    |              |         |              |        | Construction |        |        |              |        |        |        |        |         |         |         |        |        |        |        |        |        |        |        |        |         |         |         |        |        |
| W13 - 81st Street watermain - Frontier Avenue to Niagara Falls Boulevard                          | 3,500                    | Survey, Geotech, Initial Design |              | Preliminary Design | Final Design                    | Bid    |                    |              |         |              |        | Construction |        |        |              |        |        |        |        |         |         |         |        |        |        |        |        |        |        |        |        |         |         |         |        |        |
| W15 - College Terrace watermain - Madison to College Avenue                                       | 1,000                    |                                 |              |                    | Survey, Geotech, Initial Design |        | Preliminary Design | Final Design | Bid     | Construction |        |              |        |        |              |        |        |        |        |         |         |         |        |        |        |        |        |        |        |        |        |         |         |         |        |        |
| W17 - Laughlin Drive Main - 82nd Street to Bollier Avenue   | 2,450                    |                                 |              |                    | Survey, Geotech, Initial Design |        | Preliminary Design | Final Design | Bid     | Construction |        |              |        |        |              |        |        |        |        |         |         |         |        |        |        |        |        |        |        |        |        |         |         |         |        |        |
| W21 - Ontario Avenue Main - 13th Street to Main Street  | 2,200                    |                                 |              |                    | Survey, Geotech, Initial Design |        | Preliminary Design | Final Design | Bid     |              |        |              |        |        | Construction |        |        |        |        |         |         |         |        |        |        |        |        |        |        |        |        |         |         |         |        |        |
| W24 - Rivershore Drive watermain - S. 86th Street to 91st Street                                  | 1,850                    |                                 |              |                    | Survey, Geotech, Initial Design |        | Preliminary Design | Final Design | Bid     | Construction |        |              |        |        |              |        |        |        |        |         |         |         |        |        |        |        |        |        |        |        |        |         |         |         |        |        |
| W25 - Van Rensselaer Avenue - 900 Block   | 300                      |                                 |              |                    | Survey, Geotech, Initial Design |        | Preliminary Design | Final Design | Bid     |              |        |              |        |        | Construction |        |        |        |        |         |         |         |        |        |        |        |        |        |        |        |        |         |         |         |        |        |
| W29 - Witkop Avenue and 85th Street Loop  | 2,200                    |                                 |              |                    | Survey, Geotech, Initial Design |        | Preliminary Design | Final Design | Bid     |              |        |              |        |        | Construction |        |        |        |        |         |         |         |        |        |        |        |        |        |        |        |        |         |         |         |        |        |
| Alternative 2H - Install New Ground Storage Tank and Pre-Packaged Pumping Station at Beech Avenue | NA                       | Survey, Geotech, Initial Design |              |                    | Preliminary Design              |        |                    | Final Design | Bid     | Construction |        |              |        |        |              |        |        |        |        |         |         |         |        |        |        |        |        |        |        |        |        |         |         |         |        |        |
| WWTP-12 Roof Repairs  | NA                       | Prelim Design                   | Final Design | Bid                | Construction                    |        |                    |              |         |              |        |              |        |        |              |        |        |        |        |         |         |         |        |        |        |        |        |        |        |        |        |         |         |         |        |        |

- Notes:**
1. Above schedule is from date of Owner authorization.
  1. Above assumes CPL is awarded all the noted projects. If less awarded, schedule will change and CPL would work with NFWB for revised schedule.
  2. Above includes coordination with regulatory agencies such as NYSDOH for approval. Time for agency review is unknown and estimate is made upon past experiences.
  3. Construction time is estimated and will be dependent upon, bid pricing compared to budget, material availability, weather and contractor availability to bid.



## 6. References

# CPL's goal is to build long-term relationships based on client confidence and excellent performance.

## **Albany Water Board**

William Simco, PE  
Deputy Commissioner  
City Hall - 24 Eagle Street  
Albany, NY 12207  
518.434.5300  
wsimcoe@albanyny.gov

## **Dutchess County DPW**

Robert Balkind, PE  
Commissioner  
626 Dutchess Turnpike,  
Poughkeepsie, NY 12603  
845.486.2085

## **Genesee County**

Tim Hens  
Highway Superintendent  
153 Cedar Street  
Batavia, NY 14020  
585.344.8508

## **Livingston County Water & Sewer Authority**

Jason Molino  
Executive Director  
1997 D'Angelo Dr.  
Lakeville, NY 14480  
585.346.3523  
jmolino@lcwsa.us

## **North Chautauqua County Water District**

Daniel W. Pacos  
Supervisor, Town of Pomfret  
9 Day Street  
Fredonia, NY 14063  
716.672.6888  
supervisor@townofpomfretny.org

## **Warren County DPW**

Kevin J. Hajos, P.E.  
Superintendent of  
Public Works  
518.824.8834







## 8. Cost Proposal

# Capital Project W2

For Capital Project W2 - 20 inch main from Beech Avenue Storage Tank to Ontario Street  
 NFWB Capital Project Total Project Cost Estimate \$2,000,855.00  
 NFWB Capital Project Estimated Watermain Length 4,185

| Phase  | Hours to Complete              |                 |                   |                      |                   |                      |                |                         | CPL Budget |
|--|--------------------------------|-----------------|-------------------|----------------------|-------------------|----------------------|----------------|-------------------------|------------|
|  | Principal                      | Project Manager | Project Engineers | Electrical Engineers | Project Architect | Jr. Eng's & Drafters | Clerical Admin | Construction Inspectors |            |
|  | \$325                          | \$215           | \$145             | \$165                | \$165             | \$110                | \$90           | \$110                   |            |
| <b>Task 1 - Survey</b>   |                                |                 |                   |                      |                   |                      |                |                         |            |
| <b>Prepare Mapping</b>   |                                |                 |                   |                      |                   |                      |                |                         |            |
| <i>Field Survey &amp; Base Mapping Completion<sup>1</sup></i>  |                                |                 | 1                 |                      |                   | 2                    |                |                         | \$ 365     |
| <b>Geotechnical Investigations</b>                             |                                |                 |                   |                      |                   |                      |                |                         |            |
| <i>Completion of Sub-Surface Boring and Report<sup>2</sup></i> |                                |                 | 1                 |                      |                   | 2                    |                |                         | \$ 365     |
| <b>Subtotal</b>  | 0                              | 0               | 2                 | 0                    | 0                 | 4                    | 0              | 0                       | \$ 730     |
| <b>Task 2 - Conceptual Design</b>                              |                                |                 |                   |                      |                   |                      |                |                         |            |
| Not required for this Capital Project                          |                                |                 |                   |                      |                   |                      |                |                         |            |
| <b>Subtotal</b>  | 0                              | 0               | 0                 | 0                    | 0                 | 0                    | 0              | 0                       | \$ -       |
| <b>Task 3 - Design Documents</b>                               |                                |                 |                   |                      |                   |                      |                |                         |            |
| <b>Plans and Specifications</b>                                |                                |                 |                   |                      |                   |                      |                |                         |            |
| 50% Drawings and Plans   |                                | 16              | 32                |                      |                   | 120                  | 8              |                         | \$ 22,000  |
| 75% Drawings and Plans   | 2                              | 8               | 16                |                      |                   | 80                   | 4              |                         | \$ 13,850  |
| Final Drawings and Plans                                       | 2                              | 4               | 8                 |                      |                   | 40                   | 4              |                         | \$ 7,430   |
| <b>Project Cost Estimate</b>                                   |                                |                 |                   |                      |                   |                      |                |                         |            |
| Preliminary Cost Estimate (50% Design)                         |                                | 1               | 1                 |                      |                   | 2                    |                |                         | \$ 580     |
| Final Cost Estimate (100% Design)                              |                                | 1               | 1                 |                      |                   | 2                    |                |                         | \$ 580     |
| <b>Meetings</b>  |                                |                 |                   |                      |                   |                      |                |                         |            |
| Kick Off Meeting   | 1                              | 1               | 1                 |                      |                   | 1                    | 1              |                         | \$ 885     |
| Public Informational Meeting                                   |                                |                 |                   |                      |                   |                      |                |                         | \$ -       |
| Social Pinpoint virtual engagement                             |                                |                 |                   |                      |                   |                      |                |                         | \$ -       |
| Project Design Meetings  |                                | 4               | 4                 |                      |                   | 4                    |                |                         | \$ 1,880   |
| Board Meetings   |                                | 2               | 2                 |                      |                   |                      |                |                         | \$ 720     |
| <b>Regulatory &amp; Permitting</b>                             |                                |                 |                   |                      |                   |                      |                |                         |            |
| 1st Submission for Agency Review                               |                                | 4               | 4                 |                      |                   | 12                   | 8              |                         | \$ 3,480   |
| 2nd Submission for Agency Approval                             |                                | 4               | 4                 |                      |                   | 8                    | 8              |                         | \$ 3,040   |
| <b>Subtotal</b>  | 5                              | 45              | 73                | 0                    | 0                 | 269                  | 33             | 0                       | \$ 54,445  |
| <b>Task 4 - NYS EFC Reporting</b>                              |                                |                 |                   |                      |                   |                      |                |                         |            |
| <b>Quarterly Reports</b>                                       |                                |                 |                   |                      |                   |                      |                |                         |            |
| Collect, obtain NFWB signature and submit to EFC               |                                | 4               |                   |                      |                   |                      | 8              |                         | \$ 1,580   |
| <b>Document Collection</b>                                     |                                |                 |                   |                      |                   |                      |                |                         |            |
| Collect, submit to EFC and revise form                         |                                | 2               |                   |                      |                   | 8                    | 8              |                         | \$ 2,030   |
| <b>Subtotal</b>  | 0                              | 6               | 0                 | 0                    | 0                 | 8                    | 16             | 0                       | \$ 3,610   |
| <b>Task 5 - Bidding Assistance</b>                             |                                |                 |                   |                      |                   |                      |                |                         |            |
| <b>Bidding Services</b>  |                                |                 |                   |                      |                   |                      |                |                         |            |
| Prepare and Advertise for Bids                                 |                                |                 |                   |                      |                   |                      | 2              |                         | \$ 180     |
| Pre-Bid Meeting  |                                | 4               |                   |                      |                   | 4                    |                |                         | \$ 1,300   |
| Address Bidder Questions                                       |                                | 4               |                   |                      |                   | 4                    |                |                         | \$ 1,300   |
| Prepare and Issue Addendum(s)                                  |                                | 2               |                   |                      |                   | 4                    | 4              |                         | \$ 1,230   |
| Conduct Bid Opening & Bid Tabulation                           |                                | 2               |                   |                      |                   | 2                    | 4              |                         | \$ 1,010   |
| Evaluate Bids & Reference Checks                               |                                |                 |                   |                      |                   | 2                    |                |                         | \$ 220     |
| Provide Recommendation for Contract Award                      |                                | 2               |                   |                      |                   | 2                    |                |                         | \$ 650     |
| Prepare conformed documents                                    |                                |                 |                   |                      |                   |                      | 4              |                         | \$ 360     |
| Prepare agreements & notice to proceed                         |                                |                 |                   |                      |                   |                      | 4              |                         | \$ 360     |
| Conduct post bid meeting with low bidder and NFWB              |                                | 4               |                   |                      |                   | 4                    |                |                         | \$ 1,300   |
| <b>Subtotal</b>  | 0                              | 18              | 0                 | 0                    | 0                 | 22                   | 18             | 0                       | \$ 7,910   |
| <b>Task 6 - Construction Administration</b>                    |                                |                 |                   |                      |                   |                      |                |                         |            |
| <b>Construction Administration</b>                             |                                |                 |                   |                      |                   |                      |                |                         |            |
| Shop Drawing Review  |                                | 4               |                   |                      |                   | 16                   | 8              |                         | \$ 3,340   |
| Payment Applications   |                                | 7               |                   |                      |                   | 7                    | 14             |                         | \$ 3,535   |
| Preconstruction Meeting  |                                | 4               |                   |                      |                   | 4                    |                |                         | \$ 1,300   |
| Progress Meetings  |                                | 48              |                   |                      |                   | 48                   |                |                         | \$ 15,600  |
| Project Coordination   |                                | 48              |                   |                      |                   | 48                   |                |                         | \$ 15,600  |
| Final Inspection & Punch List                                  |                                | 8               |                   |                      |                   | 8                    |                |                         | \$ 2,600   |
| <b>Prepare AS-BUILT Drawings</b>                               |                                |                 |                   |                      |                   |                      |                |                         |            |
| Drawings   |                                | 4               |                   |                      |                   | 16                   |                |                         | \$ 2,620   |
| <b>Subtotal</b>  | 0                              | 123             | 0                 | 0                    | 0                 | 147                  | 22             | 0                       | \$ 44,595  |
| <b>Task 7 - Construction Inspection</b>                        |                                |                 |                   |                      |                   |                      |                |                         |            |
| <b>Construction Observation</b>                                |                                |                 |                   |                      |                   |                      |                |                         |            |
| On-Site Inspection - to be supplemented by SDVOB               |                                |                 |                   |                      |                   |                      |                | 384                     | \$ 42,240  |
| <b>Subtotal</b>  | 0                              | 0               | 0                 | 0                    | 0                 | 0                    | 0              | 384                     | \$ 42,240  |
| <b>PROJECT SUBTOTALS</b>                                       | 5                              | 0               | 0                 | 0                    | 0                 | 0                    | 0              | 0                       | \$ -       |
| <b>SUBTOTAL CPL FEES = \$ 153,530</b>                          |                                |                 |                   |                      |                   |                      |                |                         |            |
| <b>Subconsultant Budget</b>                                    |                                |                 |                   |                      |                   |                      |                |                         |            |
| Survey   | Niagara Boundary               |                 |                   |                      |                   |                      |                |                         | \$ 9,212   |
| <b>Subtotal</b>  |                                |                 |                   |                      |                   |                      |                |                         | \$ 9,212   |
| <b>M/WBE &amp; SDVOB Subconsultant Budget</b>                  |                                |                 |                   |                      |                   |                      |                |                         |            |
| Geotechnical - Drilling & Foundation Design                    | Natures Way Construction (WBE) |                 |                   |                      |                   |                      |                |                         | \$ 9,500   |
| Construction Inspection  | Schenne Associates (SDVOB)     |                 |                   |                      |                   |                      |                |                         | \$ 63,360  |
| <b>Subtotal</b>  |                                |                 |                   |                      |                   |                      |                |                         | \$ 72,860  |
| <b>SUBTOTAL SUBCONSULTANT FEES = \$ 82,072</b>                 |                                |                 |                   |                      |                   |                      |                |                         |            |
| <b>TOTAL FEES = \$ 235,602</b>                                 |                                |                 |                   |                      |                   |                      |                |                         |            |

**Key Notes:**

1. Includes field work completed by Niagara Boundary.
2. We have assumed basic coordination by CPL only, with the majority of the work completed by Natures Way Environmental under our M/WBE Utilization Plan.
3. This fee is based on the assumption of the full scope identified in the Funding Engineering Reports being completed.
4. Above fees does not include any review, permitting or inspection fees required by Railroad Companies.

# Capital Project Alternate 2H

**For Capital Project Alternative 2H - Install New Ground Storage Tank and Pre-Packaged Pumping Station at Beech Avenue**

NWFB Capital Project Total Project Cost Estimate \$6,500,000.00  
 Assume 4 million gallon tank with prefabricated pump station

| Phase  | Hours to Complete  |                             |                               |                                  |                               |                                  |                           |                                     | CPL Budget |
|--|--------------------|-----------------------------|-------------------------------|----------------------------------|-------------------------------|----------------------------------|---------------------------|-------------------------------------|------------|
|  | Principal<br>\$325 | Project<br>Manager<br>\$215 | Project<br>Engineers<br>\$145 | Electrical<br>Engineers<br>\$165 | Project<br>Architect<br>\$165 | Jr. Eng's &<br>Drafters<br>\$110 | Clerical<br>Admin<br>\$90 | Construction<br>Inspectors<br>\$110 |            |
| <b>Task 1 - Survey</b>                                   |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| Prepare Mapping  |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| Field Survey & Base Mapping Completion <sup>1</sup>      |                    |                             | 2                             |                                  |                               | 8                                |                           |                                     | \$ 1,170   |
| <b>Geotechnical Investigations</b>                       |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| Completion of Sub-Surface Boring and Report <sup>2</sup> |                    |                             | 2                             |                                  |                               | 8                                |                           |                                     | \$ 1,170   |
| <b>Subtotal</b>  | 0                  | 0                           | 4                             | 0                                | 0                             | 16                               | 0                         | 0                                   | \$ 2,340   |
| <b>Task 2 - Conceptual Design</b>                        |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| Not required for this Capital Project                    |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| <b>Subtotal</b>  | 0                  | 0                           | 0                             | 0                                | 0                             | 0                                | 0                         | 0                                   | \$ -       |
| <b>Task 3 - Design Documents</b>                         |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| <b>Plans and Specifications</b>                          |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| 50% Drawings and Plans                                   | 4                  | 80                          | 120                           | 120                              |                               | 300                              | 8                         |                                     | \$ 89,420  |
| 75% Drawings and Plans                                   | 4                  | 40                          | 60                            | 60                               |                               | 150                              | 4                         |                                     | \$ 45,360  |
| Final Drawings and Plans                                 | 4                  | 20                          | 30                            | 30                               |                               | 75                               | 4                         |                                     | \$ 23,510  |
| <b>Project Cost Estimate</b>                             |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| Preliminary Cost Estimate (50% Design)                   |                    | 1                           | 1                             | 1                                |                               | 4                                |                           |                                     | \$ 965     |
| Final Cost Estimate (100% Design)                        |                    | 1                           | 1                             | 1                                |                               | 4                                |                           |                                     | \$ 965     |
| <b>Meetings</b>  |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| Kick Off Meeting   | 1                  | 1                           | 1                             |                                  |                               | 1                                | 1                         |                                     | \$ 885     |
| Public Informational Meeting                             |                    |                             |                               |                                  |                               |                                  |                           |                                     | \$ -       |
| Social Pinpoint virtual engagement                       |                    |                             |                               |                                  |                               |                                  |                           |                                     | \$ -       |
| Project Design Meetings                                  |                    | 8                           | 8                             |                                  |                               | 8                                |                           |                                     | \$ 3,760   |
| Board Meetings   |                    | 4                           | 4                             |                                  |                               |                                  |                           |                                     | \$ 1,440   |
| <b>Regulatory &amp; Permitting</b>                       |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| 1st Submission for Agency Review                         |                    | 8                           | 8                             | 8                                |                               | 20                               | 8                         |                                     | \$ 7,120   |
| 2nd Submission for Agency Approval                       |                    | 4                           | 4                             | 4                                |                               | 10                               | 8                         |                                     | \$ 3,920   |
| <b>Subtotal</b>  | 13                 | 167                         | 237                           | 224                              | 0                             | 572                              | 33                        | 0                                   | \$ 177,345 |
| <b>Task 4 - NYS EFC Reporting</b>                        |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| <b>Quarterly Reports</b>                                 |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| Collect, obtain NFWB signature and submit to EFC         |                    | 6                           |                               |                                  |                               |                                  | 12                        |                                     | \$ 2,370   |
| <b>Document Collection</b>                               |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| Collect, submit to EFC and revise form                   |                    | 2                           |                               |                                  |                               | 8                                | 8                         |                                     | \$ 2,030   |
| <b>Subtotal</b>  | 0                  | 8                           | 0                             | 0                                | 0                             | 8                                | 20                        | 0                                   | \$ 4,400   |
| <b>Task 5- Bidding Assistance</b>                        |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| <b>Bidding Services</b>                                  |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| Prepare and Advertise for Bids                           |                    |                             |                               |                                  |                               |                                  | 2                         |                                     | \$ 180     |
| Pre-Bid Meeting  |                    | 4                           |                               |                                  |                               | 4                                |                           |                                     | \$ 1,300   |
| Address Bidder Questions                                 |                    | 4                           |                               |                                  |                               | 4                                |                           |                                     | \$ 1,300   |
| Prepare and Issue Addendum(s)                            |                    | 2                           |                               |                                  |                               | 4                                | 4                         |                                     | \$ 1,230   |
| Conduct Bid Opening & Bid Tabulation                     |                    | 2                           |                               |                                  |                               | 2                                | 4                         |                                     | \$ 1,010   |
| Evaluate Bids & Reference Checks                         |                    |                             |                               |                                  |                               | 2                                |                           |                                     | \$ 220     |
| Provide Recommendation for Contract Award                |                    | 2                           |                               |                                  |                               | 2                                |                           |                                     | \$ 650     |
| Prepare conformed documents                              |                    |                             |                               |                                  |                               |                                  | 4                         |                                     | \$ 360     |
| Prepare agreements & notice to proceed                   |                    |                             |                               |                                  |                               |                                  | 4                         |                                     | \$ 360     |
| Conduct post bid meeting with low bidder and NFWB        |                    | 4                           |                               |                                  |                               | 4                                |                           |                                     | \$ 1,300   |
| <b>Subtotal</b>  | 0                  | 18                          | 0                             | 0                                | 0                             | 22                               | 18                        | 0                                   | \$ 7,910   |
| <b>Task 6 - Construction Administration</b>              |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| <b>Construction Administration</b>                       |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| Shop Drawing Review                                      |                    | 12                          |                               |                                  |                               | 40                               | 8                         |                                     | \$ 7,700   |
| Payment Applications                                     |                    | 25                          |                               |                                  |                               | 25                               | 25                        |                                     | \$ 10,375  |
| Preconstruction Meeting                                  |                    | 4                           |                               |                                  |                               | 4                                |                           |                                     | \$ 1,300   |
| Progress Meetings  |                    | 192                         |                               |                                  |                               | 192                              |                           |                                     | \$ 62,400  |
| Project Coordination                                     |                    | 192                         |                               |                                  |                               | 192                              |                           |                                     | \$ 62,400  |
| Final Inspection & Punch List                            |                    | 8                           |                               |                                  |                               | 8                                |                           |                                     | \$ 2,600   |
| <b>Prepare AS-BUILT Drawings</b>                         |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| Drawings   |                    | 4                           |                               |                                  |                               | 16                               |                           |                                     | \$ 2,620   |
| <b>Subtotal</b>  | 0                  | 437                         | 0                             | 0                                | 0                             | 477                              | 33                        | 0                                   | \$ 149,395 |
| <b>Task 7 - Construction Inspection</b>                  |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| <b>Construction Observation</b>                          |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |
| On-Site Inspection - to be supplemented by SDVOB         |                    |                             |                               |                                  |                               |                                  |                           | 768                                 | \$ 84,480  |
| <b>Subtotal</b>  | 0                  | 0                           | 0                             | 0                                | 0                             | 0                                | 0                         | 768                                 | \$ 84,480  |
| <b>PROJECT SUBTOTALS</b>                                 | 13                 | 0                           | 0                             | 0                                | 0                             | 0                                | 0                         | 0                                   | \$ -       |
| <b>SUBTOTAL CPL FEES = \$ 425,870</b>                    |                    |                             |                               |                                  |                               |                                  |                           |                                     |            |

|   |                                |  |            |
|---|--------------------------------|--|------------|
| <b>Subconsultant Budget</b>                     |                                |  |            |
| Survey  | Niagara Boundary               |  | \$ 10,000  |
| Geotechnical - Foundation Report                | Urban Enigneers                |  | \$ 8,000   |
| <b>Subtotal</b>                                 |                                |  | \$ 18,000  |
| <b>M/WBE Subconsultant Budget</b>               |                                |  |            |
| Geotechnical - Drilling                         | Natures Way Construction (WBE) |  | \$ 15,000  |
| Environmental Testing                           | Sienna Environmental (MWBE)    |  | \$ 5,000   |
| Construction Inspection                         | Schenne Associates (SDVOB)     |  | \$ 126,720 |
| <b>Subtotal</b>                                 |                                |  | \$ 146,720 |
| <b>SUBTOTAL SUBCONSULTANT FEES = \$ 164,720</b> |                                |  |            |

**TOTAL FEES = \$ 590,590**

**Key Notes:**

1. Includes field work completed by Niagara Boundary.
2. We have assumed basic coordination by CPL only, with the majority of the work completed by Natures Way Environmental under our M/WBE Utilization Plan.
3. This fee is based on the assumption of the full scope identified in the Funding Engineering Reports being completed.
4. Above fees does not include any review, permitting or inspection fees required by Railroad Companies

*NIAGARA FALLS WATER BOARD RESOLUTION # 2024-07-005*

**CPL PROFESSIONAL SERVICES EXTENSION**

**WHEREAS**, the Niagara Falls Water Board is engaged in various ongoing projects requiring engineering and related professional services for which it does not have sufficient internal staff or requires an outside engineering firm; and

**WHEREAS**, the Water Board previously retained Clark Patterson Lee (“CPL”) to provide consulting engineering and other professional services, including weekly assistance with a variety of engineering needs acting as project manager for the capital projects underway at the wastewater treatment plant, and from time-to-time has appropriated funds for these services in order to maintain control and oversight over the engagement; and

**WHEREAS**, CPL also was selected as the Water Board’s grant writer, and assists in preparing applications and managing certain aspects of compliance with grant program requirements; and

**WHEREAS**, CPL has exhausted the funds appropriated to date for its services and has requested additional funds for work, with the amount of its request based on its average monthly billing over the past year; and

**WHEREAS**, the Water Board will continue to need services provided by CPL during the remainder of 2024 and in 2025; and

**WHEREAS**, CPL has presented a proposal for continued services dated June 17, 2024, proposing a not-to-exceed fee for services to be rendered on a time-and-material basis totaling \$600,000 broken down as follows: General Engineering – Weekly Assistance (\$340,000), Capital Projects Management and Assistance (\$200,000), and Grant Services (\$60,000);

**NOW THEREFORE BE IT**

**RESOLVED**, that on behalf of the Niagara Falls Water Board, the Executive Director is hereby authorized to enter into an extension of the professional services agreement with CPL consistent with that firm’s proposal dated June 17, 2024, authorizing payment for fees on a time-and-material basis for services rendered during 2024 and 2025 as follows:

General Engineering – Weekly Assistance: Not to exceed \$340,000;

Capital Projects Management and Assistance: Not to exceed \$200,000;

Grant Services: Not to exceed \$60,000

Total: Not to exceed \$600,000.

\* CONTINUED ON NEXT PAGE \*

**AND IT IS FURTHER RESOLVED**, that CPL’s services shall be performed on an as-needed and non-exclusive basis and that CPL shall obtain the Executive Director’s approval prior to proceeding with any project.

*Water Board Personnel Responsible for Implementation of this Resolution:*  
 Executive Director

*Water Board Budget Line or Capital Plan Item with Funds for this Resolution:*  
 Capital Costs: As per the respective capital project number listed on the CIP  
 O&M Costs: GA.8110.0001.0451.000  
 Budget Line Supplied by: D. Williamson (Engineering Services Items)

On July 22, 2024, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

|                       | <b>Yes</b> | <b>No</b> | <b>Abstain</b> | <b>Absent</b> |
|-----------------------|------------|-----------|----------------|---------------|
| Board Member Asklar   | [   ]      | [   ]     | [   ]          | [   ]         |
| Board Member Kimble   | [   ]      | [   ]     | [   ]          | [   ]         |
| Board Member Larkin   | [   ]      | [   ]     | [   ]          | [   ]         |
| Board Member Sirianni | [   ]      | [   ]     | [   ]          | [   ]         |
| Chairman Forster      | [   ]      | [   ]     | [   ]          | [   ]         |

Signed By:

Vote Witnessed By:

\_\_\_\_\_  
 Nicholas J. Forster, Chairman

\_\_\_\_\_  
 Sean W. Costello, Secretary to Board



June 17, 2024

Chairman Nicholas Forster  
Niagara Falls Water Board  
5815 Buffalo Avenue  
Niagara Falls, NY 14304

**CPL Services Renewal Proposal – From 7/1/2024 To 12/31/2025**

Dear Chairman Forster:

We appreciate the opportunity to have collaborated with you and the Water Board over the past seven years. During this time, we have provided you several proposal letters for services primarily related to General Engineering & Assistance, Capital Projects and Grant Services.

We are proposing the following services and work scope to continue providing assistance from beginning of July 2024 to end of December 2025. Each service below will be billed on a monthly basis to your office under separate job numbers so that we can be transparent on the billings. Please note that the below fees are approximations based upon our effort in prior years. If additional funds are needed due to more than anticipated projects, we will notify your office ahead of time.

As requested by Sean Costello, we will set up new numbers and bill under them and discontinue the use of prior/current job numbers.

**General Engineering - Weekly Assistance:** Supply professional and project engineers to assist the NFWB in all facets of engineering activities including, but not limited to design, inspection, planning, estimating, budgeting, hydraulic modeling, assistance with repairs and other as needed items not related to capital projects. We will also prepare any necessary cost estimates, basic engineering reports, environmental reviews, etc. for submission to the funding agencies.

Recent examples of this service are:

- Coordination with funding agencies for schedules, payment requests, document collection process, etc.
- Attend Operation & Maintenance meetings.
- Prepare financial funding and capital project monthly updates.
- Schedule inspection and obtain recommended improvements report for Beech Avenue Water Tank.
- Perform hydraulic modeling for watermain replacements with 2024 funding application.



- Provide specifications and bidding services for:
  - Electrical, HVAC and Emergency Repair contracts.
  - Sludge Hauling and Disposal Contract.
  - Electrical and HVAC work on the new conference room at the Water Treatment Plant.
- Design & Construction Services for:
  - New SCADA System in the sewer collection system lift stations.
  - New backup generators at sewer collection system lift stations.

**Capital Projects** - Supply professional engineers to assist the NFWB in all facets of engineering activities including, but not limited to design, inspection, planning, estimating, budgeting, and maintaining project schedules. We propose to supply Jay Meyers for onsite needs and daily interaction with staff. Then we will involve Seth Krull and Rick Henry as needed for the duration of the contract.

Recent examples of this service are:

- Assisting with coordination and management of the \$27 million dollar wastewater improvements projects.
- Design & Construction Services for:
  - Water Plant Roof Replacement.
  - Water Plant Chlorine Booster Station.
  - Water Plant Clearwell Vent Piping Replacement.

**Grant Services:** Supply a professional engineer and project engineers to assist the NFWB in preparing funding applications to assist with infrastructure improvement projects. This includes preparing any necessary applications and utilizing the services of GW & R Services of 5123 Woodland Drive, Lewiston, New York to assist with writing of grant applications, researching funding opportunities and obtaining letters of support. Below is a summary of funding agencies that we have coordinated with for past applications along with a table noting funds that have been awarded to the Water Board through these past efforts.

Agencies Coordinated with:

- NYS Environmental Facilities Corporation
- NYS Dormitory Authority of the State of New York
- NYS Department of Environmental Conservation
- NYS Department of Health



Summary of Financial Awards to Date:

| Funding Awards                       | Total Cost    | Grant Amount | Loan Amount   |
|--------------------------------------|---------------|--------------|---------------|
| 2017 Bollier Ave Watermain           | \$400,000     | \$240,000    | \$160,000     |
| 2018 Water System Improvements       | \$5,495,000   | \$3,000,000  | \$2,495,000   |
| 2021 Water System Improvements       | \$10,025,000  | \$3,000,000  | \$7,025,000   |
| 2023 Water System Improvements       | \$15,240,000  | \$3,000,000  | \$12,240,000  |
| 2021 Water Fluoridation Grant        |               | \$25,000     |               |
| 2022 Lead Service Line Removal Study |               | \$472,780    |               |
| LaSalle Sewer Planning Study Ph 1    | \$126,800     | \$100,000    | \$26,800      |
| LaSalle Sewer Planning Study Ph 2    | \$250,000     | \$100,000    | \$150,000     |
| LaSalle Sewer Improvements Ph 2      | \$1,000,000   | \$800,000    | \$200,000     |
| WWTF Consent Order Items 11 & 14     | \$500,000     | \$500,000    |               |
| 2021 Sewer System Improvements       | \$4,500,000   | \$2,250,000  | \$2,250,000   |
| 2022 Sewer System Improvements       | \$5,400,000   | \$1,250,000  | \$4,150,000   |
| 2023 Sewer System Improvements       | \$650,000     | \$162,500    | \$487,500     |
| 2023 WWTF Conversion Design          | \$20,000,000  | \$10,000,000 | \$10,000,000  |
| 2023 WWTF Conversion Construction    | \$234,000,000 | \$9,540,800  | \$224,459,200 |

**Fee Schedule from July 1, 2024 to December 31, 2025**

|  |                  |
|--|------------------|
| General Engineering – Weekly Assistance    | \$340,000        |
| Capital Projects Management and Assistance | \$200,000        |
| Grant Services                             | \$ 60,000        |
| <b>Total</b>                               | <b>\$600,000</b> |

Please also find attached our current 2024 Billing Rates. These will be adjusted annually and used to determine our invoicing.

Thank you for the opportunity to submit our qualifications. I am deeply proud of our ability to provide you with quality service at a fair rate. This is what we do, and we do it well. If you have any questions or require any additional information, please feel free to contact me via email at rhenry@cplteam.com or by phone at 716.852.2100, extension 7579.

Very truly yours,  
 Clark Patterson Lee

Richard B. Henry III, P.E.  
 President



**CPL**  
2024 Billing Rates



| Role                                 | Employee         | Billing Rate |
|--------------------------------------|------------------|--------------|
| President                            | Rick Henry       | \$315.00     |
| Senior Engineer/Specialist Role      | Jay Myers        | \$200.00     |
| Engineering Project Manager II       | Seth Krull       | \$165.00     |
| Engineering Project Manager I        | Dan Insinna      | \$150.00     |
| Engineering Designer I               | Sarah Rennells   | \$100.00     |
| Senior Construction Project Manager  | Wade Starnes     | \$205.00     |
| Senior Construction Inspector        | Senior Inspector | \$155.00     |
| Construction Inspector               | Inspector        | \$110.00     |
| Senior Architectural Project Manager | Bill Zografos    | \$205.00     |
| Architect II                         | Kisha Patterson  | \$155.00     |
| BSE Project Manager II               | Gerry May        | \$165.00     |

**TWO MONTH MORATORIUM ON PERSONNEL ACTIONS**

**WHEREAS**, a Member of the Niagara Falls Water Board has been advised that certain appointments or promotions of personnel may violate applicable Civil Service rules; and

**WHEREAS**, the Water Board desires to identify and correct any Civil Service rule violations or other issues with its hiring process or practices;

**NOW THEREFORE BE IT**

**RESOLVED**, that a moratorium hereby is declared on all hiring, promotions, transfers, and any other non-mandatory personnel actions which are at the discretion of the Water Board or any of its employees; and

**IT IS FURTHER RESOLVED**, that unless specifically modified or extended by further Board resolution, this moratorium on personnel actions shall remain in force until the Niagara Falls Water Board’s September 23, 2024 business meeting; and

**IT IS FURTHER RESOLVED**, that the moratorium on personnel actions shall not apply to non-discretionary personnel actions including those required by any Collective Bargaining Agreement, promotion of operator trainees to operator, or step increases based on longevity.

On July 22, 2024, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

|                       | <b>Yes</b> | <b>No</b> | <b>Abstain</b> | <b>Absent</b> |
|-----------------------|------------|-----------|----------------|---------------|
| Board Member Asklar   | [    ]     | [    ]    | [    ]         | [    ]        |
| Board Member Kimble   | [    ]     | [    ]    | [    ]         | [    ]        |
| Board Member Larkin   | [    ]     | [    ]    | [    ]         | [    ]        |
| Board Member Sirianni | [    ]     | [    ]    | [    ]         | [    ]        |
| Chairman Forster      | [    ]     | [    ]    | [    ]         | [    ]        |

Signed By:

Vote Witnessed By:

\_\_\_\_\_  
Nicholas J. Forster, Chairman

\_\_\_\_\_  
Sean W. Costello, Secretary to Board

**EXTENSION OF TEMPORARY OPERATOR TRAINEE INCENTIVE PROGRAM**

**WHEREAS**, the Niagara Falls Water Board (“NFWB”) Wastewater Treatment Plant (“WWTP”) Operations Department’s entry-level position is Operator Trainee; and

**WHEREAS**, Operator Trainees who have passed the Civil Service examination, are reachable on the established Civil Service list, and who have completed a post-examination period of probationary service are eligible for permanent status as Operator Trainees; and

**WHEREAS**, promotional appointment to the position of Wastewater Treatment Plant Operator requires a permanent Operator Trainee to possess a NYS DEC Grade 3 Wastewater Operator’s License; and

**WHEREAS**, the DEC’s current requirements for a Grade 3 license include a minimum number of years of hands-on experience in WWTP operations, completion of three certification training courses, and successful completion of an examination; and

**WHEREAS**, unique circumstances extending over multiple years had impeded current permanent Operator Trainees from completing certification courses and securing the Grade 3 licenses required for promotion to Operator, and in order to address this issue the NFWB developed a one-time WWTP Operator Licensure Program intended to incentivize the permanent Operator Trainees to secure Grade 3 licenses as quickly as possible and to recognize the permanent Operator Trainees’ vital role in WWTP operations; and

**WHEREAS**, this incentive program was the subject of negotiations with the United Steelworkers Union on behalf of Local #9434-01 as the collective bargaining representative of the impacted employees; and

**WHEREAS**, by its terms the program and incentives to move toward licensure were to expire two years from the program’s effective date, but the NFWB and Union included as part of the original program agreement the option to negotiate a brief extension of the program under appropriate circumstances; and

**WHEREAS**, eligible Operator Trainees now have completed most courses required for licensure, but a several still need one course and will have opportunities to complete that course, and thus all pre-requisites to apply for the DEC Grade 3 licensing examination, in September and in October 2024; and

**WHEREAS**, to allow these Operator Trainees the opportunity to complete their final course before the program expires, Water Board staff have asked that the Board authorize execution of a memorandum of understanding with the Union regarding a single extension of the Temporary WWTP Operator Licensure Incentive Program through and including October 31, 2024;

**NOW THEREFORE BE IT**

**RESOLVED**, that the Niagara Falls Water Board authorizes the Executive Director to execute a Memorandum of Understanding with the United Steelworkers regarding a single Temporary WWTP Operator Licensure Incentive Program through and including October 31, 2024, with no further extensions.

*Water Board Personnel Responsible for Implementation of this Resolution:*  
Executive Director

*Water Board Budget Line or Capital Plan Item with Funds for this Resolution:*  
Budget Line: Wastewater Operations Payroll

On July 22, 2024, the question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

|                       | <b>Yes</b> | <b>No</b> | <b>Abstain</b> | <b>Absent</b> |
|-----------------------|------------|-----------|----------------|---------------|
| Board Member Asklar   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Kimble   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Larkin   | [ ]        | [ ]       | [ ]            | [ ]           |
| Board Member Sirianni | [ ]        | [ ]       | [ ]            | [ ]           |
| Chairman Forster      | [ ]        | [ ]       | [ ]            | [ ]           |

Signed By:

Vote Witnessed By:

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Nicholas J. Forster, Chairman

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Sean W. Costello, Secretary to Board

**MEMORANDUM OF UNDERSTANDING REGARDING EXTENSION OF  
TEMPORARY WWTP OPERATOR LICENSURE INCENTIVE PROGRAM**

In July 2022 the Niagara Falls Water Board (“NFWB”) and United Steelworkers (“USW”) approved the terms of a Temporary Wastewater Treatment Plant (“WWTP”) Operator Licensure Incentive Program. The program was designed to incentivize permanent Operator Trainees who had enough experience to be eligible for licensure to take the courses needed to secure Grade 3 licenses as quickly as possible. The program and the incentives to be paid pursuant to the program expire two years from its effective date (August 1, 2022). The NFWB and USW agreed that a brief extension of the program could be negotiated under appropriate circumstances.

The parties recognize that eligible Operator Trainees now have completed most courses required for licensure, but a several still need one course, Grade 3 Supervision and Technical Operations (and/or the 7.5 hour Technical Operations Module that is part of the Grade 3 Supervision and Technical Operations Course). New York Water Environment Association (“NYWEA”), which administers DEC’s wastewater operator certification and licensing program, lists that course as available from SUNY Buffalo on September 9-13, 2024 and from Jamestown Community College on October 21-25, 2024. To provide the Operator Trainees who still need the course with a final opportunity to take it prior to expiration of the licensure incentive program, the NFWB and USW hereby agree as follows:

1. The Temporary WWTP Operator Licensure Incentive Program, and the incentives paid to Operator Trainees under that program, is hereby extended to and shall expire on October 31, 2024.
2. There shall be no further extensions of the WWTP Operator Licensure Incentive Program, and the incentive payments intended to encourage licensure shall end as of October 31, 2024.
3. The permanent Operator Trainees who were covered by the WWTP Operator Licensure Incentive Program are reminded that on successfully obtaining their Grade 3 license, they receive automatic promotion to Operator and shall thereafter be paid at the full Operator rate.

**AGREED:**

\_\_\_\_\_ Date: \_\_\_\_\_  
For the Water Board:  
Sean Costello, Executive Director

\_\_\_\_\_ Date: \_\_\_\_\_  
For the Union:  
Jerry Chandler, USW 9434-01 Unit President

\_\_\_\_\_ Date: \_\_\_\_\_  
For the Union:  
Jim Briggs, USW Sub-District Director