



**City of Biddeford
Finance Committee**

August 6, 2024 at 5:00 PM
City Hall Council Chambers & Zoom

[Click to Join Zoom Meeting Online](#)

Or call in by phone: +1 312 626 6799

Meeting ID: 963 1043 8942

Passcode: 660718

1. Call to Order
2. Approval of Minutes
3. Signing of the Expenditure Warrant
4. Discussion/Approval
 - 4.a Approval/FMI Pump Station Upgrade.
 - 4.b Approval/Purchase Portable Bypass Pump
 - 4.c Approval/Purchase of Cellebrite - Computer program to unlock "smart" devices to aid in investigations.
 - 4.d Approval/Lead Bid - 154 Cleaves St.
5. Other Business
6. Adjourn



Finance Committee

Meeting Date: August 6, 2024
Meeting Time: 5:00 PM
Agenda Item No: 4.a
Item Description: Approval/FMI Pump Station Upgrade.
Submitted By: Jeff Demers Public Works/Waste Water Director

Supporting Information/Documentation:

RFP-Design-Build FMI Pump Station Upgrade and SMMC FM, Pre Bid Site Visit sign in sheet, 2024-01-30_FMI Pump Station Replacement Exhibit, FMI PS & SMMC FM proposal, Copy of Citys FMI Estimate

Key Terms:

Executive Summary:

The city's Public Works/Wastewater Division has been working on the replacement of the Fiber Materials pumping station (FMI) for the last couple of years. City staff are proposing to perform the upgrade inhouse as a test project.

Detailed Review:

The Public Works/Wastewater Division has been working on putting in a request for proposal for the FMI pumping station upgrade project for the last couple of years. This station is the last can station that was built in the late 1970s. On May 15, 2024, the Wastewater Division put out an RFP for the rebuilding of the FMI pumping station. Very similar to prior upgrades being the Airport station, Main Street station and the Hospital station. The rebuilding consists of the following work: Set up by-pass pumping, new pump station valve pit, lining of existing wet well, new pumps, pump rails, pump bases, level controller, flow meter, new electrical service and controls, new valve pit, section of both force mains and gravity sewer. The City had 5 vendors/contractors show up for the mandatory pre-bid meeting. Two contractors took out bid doc's. One contractor bid on the project. That contractor was Apex Construction for the sum of \$844,854. Not including electrical, instrumentation and controls. The electrical and instrumentation costs are estimated by the city at \$198,890 to bring the contractors' bid to an estimated \$1,043,744. Apex Construction is a reputable contractor that the city has used on other upgrades through the years.

City staff is requesting that both the Finance Committee and City Council allow staff to perform the upgrade in house as a pilot program for the city. The attached document shows the city staff's estimated cost at \$747,896, acting as the general contractor. The staff is very confident that, if given the opportunity to act as the general on this project, the city could save over \$296,000 with local vendors and contractors of choice. Staff would contract with contractors for services that the city has had long relationships with on these types of projects over the years. Wastewater staff were given the authority to act as the general contractor at the waste water treatment facility 11 years ago in a de-watering/odor control upgrade project for just over \$1,200,000. The staff aced that project while coming in as budgeted. That equipment is running great to date.

Staff will be available for any questions.

Funding Source:

\$555,000 was reserved in ARPA funds in FY 23. \$200,000 out of the Waste water Bonds/23CSO01 Abatement Work, with an estimated balance of \$2,600,000. For an amount not exceeding \$750,000.

Staff Recommendation:

Staff recommends that \$750,000 be allocated to allow the City Manager/Public work's director to use outside contractors as needed for this project. All contractors used for services will carry all necessary bonds and insurance required.

Request for Proposals

Design/Build for FMI Pump Station

I. PROJECT DESCRIPTION

The project scope includes the design and construction of an upgrade to the City of Biddeford's (OWNER) FMI pump station located off of Morin Street. The existing station is a flooded suction drywell with an adjacent wet well that collects sewerage from Morin St and pumps it through a 4" FM to a valve pit, where it combines with a 6" force main from another pump station and is discharged through a 6" combined force main.

The current station has a duplex pump system, each having an original design operating point of 200 gpm @ 36' TDH powered by 3 phase 208/120 V electrical service.

The OWNER is soliciting proposals from qualified contractors to convert the station to submersible pumps with equivalent pumping capacity, replace the existing force main to the valve pit, valve structure and valves and fittings. The OWNERS shall provide a controls building with new controls, MCC, and electrical service.

The OWNER is also requesting a lump sum cost from interested contractors to replace a force main at the SMMC Pump station located on West Cole Road and install a flow meter as an optional part of the project.

II. PRE-BID REQUIREMENTS

- A. Prior to submitting a proposal, all interested bidders must attend a pre-bid site visit. The site visit will be located next to 8 Morin Street, Biddeford Maine on May 7th at 10:00.
- B. All requests for additional information prior to awarding the project will be communicated via email with the Wastewater Superintendent and shared with all interested bidders. Submit questions to Wastewater Superintendent at alex.buechner@biddefordmaine.org

III. PROJECT PARAMETERS

A. SCHEDULE

The OWNER intends to complete this project within 12 months of awarding the project. This will in large part depend on the CONTRACTOR's ability to submit shop drawings in a timely manner so that lead times can be minimized. A detailed schedule for complete of the work shall be provided with the proposal. The CONTRACTOR is invited to comment on this schedule and offer ideas that would reduce the length of time required to complete the project. This schedule may be modified to accommodate long lead times as long as the CONTRACTOR can show that an effort was made to order equipment in a timely manner.

B. POST BID SITE VISIT

The CONTRACTOR shall visit the site prior to submitting a final design to confirm pipe sizes, pumping rates, pressure, elevations, locations, and any other items that need to be confirmed. The CONTRACTOR will be responsible for any test holes required to confirm this information if needed. The CONTRACTOR shall also provide an assessment of the existing wet well that is to be reused and make a recommendation on any repairs needed. If repairs or lining are recommended, the Contractor shall provide a cost to repair.

C. PRE-CONSTRUCTION MEETING

After the project has been awarded and the CONTRACTOR has performed the post bid site visit, a pre-construction meeting will be scheduled. All parties involved in the project must attend.

D. MAINTENANCE OF FLOWS

The Contractor shall be responsible for maintaining all sewer flow coming into the FMI pump station, as well as what is discharged from the Shape pump station that shares a force main with FMI for the duration of the project. City Staff has performed drawn down tests and estimated that the Shape Pump Station pumps about 24,000 GPD, and the FMI Pump Station pumps about 29,000 GPD, with the highest flows occurring during normal business hours. Working with City Staff, the CONTRACTOR shall confirm pumping volumes as part of the Post Bid Site Visit. The Contractor shall provide a written bypass pumping plan for the OWNER to review and approve prior to the start of construction. The CONTRACTOR shall be responsible for operating and maintaining all bypassing equipment, fuel storage, coordination of temporary power, traffic control and any other items associated with maintaining flows from both pump stations. The CONTRACTOR shall not allow sanitary sewer flows to discharge into any water body. If bypass pumping equipment is required for any length of time exceeded a normal work day, redundant equipment must be provided as part of the written bypass plan.

E. PERMITTING & SURVEY

Permitting shall be the responsibility of the OWNER as related to jurisdictional resource areas under the purview of MEDEP.

F. BUILDING PERMIT

The OWNER shall coordinate and secure a building permit from the Biddeford Code Enforcement Office.

G. ELECTRICAL/ELECTRICIAN BY OWNER; ELECTRICAL PERMIT

CONTRACTOR shall be aware that all electrical work will be performed by the OWNER in parallel with the CONTRACTORS' efforts. This cost shall be excluded from the CONTRACTORS' cost proposal. The CONTRACTOR shall be responsible for coordinating all aspects of the project with the OWNER. Construction schedule and sequence, and procurement of all materials to make a fully functional system.

OWNER shall:

- Procure the electrical permit from the Biddeford Code Enforcement Office.

- Provide an 8'X10' structure to house all electrical and controls equipment
- Relocate the electrical service, generator hookup, and transfer switch.
- Terminate and fill abandoned conduit.
- Provide all conduit, conductor, and electrical appurtenances related to their work, independent of the CONTRACTOR
- Install all conduit, through penetrations drilled by the CONTRACTOR.
- Pull all conductors and make connections to all components, including those mounted by the CONTRACTOR.
- Install and program controls system.
- Work with radio techs to complete communications systems.
- Field test all electrical system functions and alarms prior to startup.
- Make any modifications to the Pump Station SCADA system to comply with Biddeford Wastewater standards.
- Proper labeling for arc flash and other electrical hazards.

CONTRACTOR is responsible for providing a detailed construction schedule to the OWNER such that all work may be sequenced accordingly. All revisions to the schedule will also require advance coordination between parties. The coordination costs shall be included in the CONTRACTOR's cost proposal.

H. INSTRUMENTATION

The OWNER shall be responsible for the purchase, installation, integration, and testing of all field instrumentation, with the exception of the flow meter. The CONTRACTOR shall install the flow meter on the force main. The OWNER shall be responsible for conduit and wiring of the flow meter. The CONTRACTOR shall be responsible for communicating the scheduling for install with the OWNER. All instrumentation provided shall be consistent with Biddeford Wastewater standards. If subcontractors are needed for the install, configuration, or testing of any instrumentation, the OWNER shall coordinate this schedule and communicate with the CONTRACTOR. The following is a list of field instrumentation required.

- Flow meter
- Digital pressure gauges with 4-20 output
- 0-10 PSI pressure transmitter for wet well level
- Backup floats system (Opti Float)
- Safe touch power testing equipment
- Power Meter

I. QUALIFICATIONS/PROJECT STAFFING

All final designs shall be signed and sealed by a PE.

The proposal shall include an organizational chart(s) with the names, major assignments, and responsibility/reporting lines for all key project personnel. The CONTRACTOR shall provide the majority of necessary services in-house. The CONTRACTOR shall include any sub-contractors proposed for inclusion on the project team.

The proposal shall include the resumes of all key project personnel, including resumes for all key subcontractors. Additional training and qualifications; which are relevant to the work, should also be described in the proposal.

Proposals must include a statement indicating each project team member's experience on similar projects and must specify the responsibilities they had on each assignment. No credit for experience will be given unless the proposal clearly states this information. In addition, for each project described, a reference with address and contact information must be provided.

J. BONDING REQUIREMENTS

Upon selection, the CONTRACTOR shall submit a payment and performance bond, each in the amount of 100% of the contract price.

K. INSURANCE

CONTRACTOR shall secure insurance as required by the OWNER naming the OWNER and their agents as additional insured. Workman's comp insurance shall be included.

IV. BASIS OF DESIGN

A. SITE LAYOUT

A preliminary site drawing is included with this document to show the existing conditions and general layout of the site and where the OWNER would like to locate the new structures and piping. The CONTRACTOR may propose changes to this layout if existing conditions call for it after receiving approval from the OWNER. Any proposed changes must stay within the limits of city easements.

B. PUMP AND HARDWARE

The CONTRACTOR shall select pumping equipment capable of pumping at least 200 GPM against 36' for each pump (unless the site check provides different results). The CONTRACTOR shall provide and install all equipment and hardware needed to install two submersible pumps, rail system, pump retrieval system, hardware and fittings. Prior to purchasing equipment, the OWNER must approve the selection. The OWNER reserves the right to reject the pump selection for any reason and may request a list of equipment references prior to approval.

C. WET WELL

The CONTRACTOR shall perform an assessment of the existing wet well that is to be reused to determine if concrete repairs or lining are required. If concrete repairs or lining is necessary, the CONTRACTOR shall list the cost to do so as part of the bid package. The CONTRACTOR shall be responsible for any modifications to the wet well to accommodate the new equipment. The top section of the structure shall be removed and replaced with a hatched opening that is large enough to easily remove the pumps, and include a built in safety grate with latching system.

D. ELECTRICAL AND CONTROLS BUILDING

As stated in the previous section, the CONTRACTOR shall coordinate work with the OWNER's for all work listed in section I\IIG. The CONTRACTOR shall be responsible for the construction of a concrete pad as a base for the controls building, and coordinate the installation of conduit in the pad with the OWNER. Refer to the drawings attached to this document for the proposed location of the building. New concrete bollards shall be installed to protect the building and any structures that are a higher elevation than the finish grade. The bollards may be sleeved with a premade yellow plastic cover, or painted yellow.

E. FORCE MAIN

The existing 4" force main shall be abandoned and replaced with 6" using a pipe material suitable for pressures associated with this pumping system. Prior to system startup, the CONTRACTOR shall perform pressure testing and address any leaks detected.

F. FLOW METER DRY WELL

A dry pit shall be included as part of the design to house the flow meter and pressure gauge. The CONTRACTOR shall be responsible for communicating with the OWNER for design and installation of conduit and equipment. The flow meter pit shall include a drain line that pitches towards the wet well with a check valve attached to the discharge. The floor of the valve pit to be sloped towards the drain line. All penetrations and seams to be grouted and made water tight.

G. VALVE DRY WELL

A dry pit to shall be included as part of the design to replace the existing valve pit. Knife gates shall be installed on the incoming force mains from both the FMI and Shape pump stations. The new valve pit shall include a 6" bypass fitting to allow the bypass of the FMI pump station using a cam-lock style connection suited for bypassing with an external pump. The bypass connection shall include a gate valve. The valve pit shall include a drain line that pitches towards the wet well with a check valve attached to the discharge. The floor of the valve pit to be sloped towards the drain line. All penetrations and seams to be grouted and made water tight. Coatings shall be applied with manufacture recommendations to all ferrous metal surfaces.

H. DEMOLITION

The existing below ground pump room, valve pit, force main, conduit and any other unused pieces of the old pump station shall be filled in with flowable fill or other suitable material and lower below final grading.

I. SITEWORK AND SURFACE RESTORATION

As part of the project, the site will experience major disruptions. The CONTRACTOR shall comply with all state and federal safety regulations throughout the duration of the project. CONTRACTOR shall avoid disturbing neighboring properties and daily

operations, and abide by all local construction codes and ordinances (i.e., erosion and sediment control). All work shall be confined to the limits of existing easements. Temporary fencing shall be placed around any open holes or trenches when work is not being done for the safety of the public. Upon completion of site work, all areas impacted by the project shall be compacted, loamed, and seeded with two treatment of hydro seed. Final thickness of loam shall be at least 6 inches. The access road shall be returned to previous or better condition.

J. PROJECT INSPECTIONS

The OWNER shall provide site inspection for the duration of the project. If the designated inspector is not on site during a critical stage of the project, the CONTRACTOR must wait until the inspector has approved the work before backfilling or completion of any stage of the project.

K. REPLACEMENT OF SMMC FORCE MAIN

As an additional optional line item, the CONTRACTOR shall replace 550 feet of 6" force main at a different pump station, as well as install a new dry well structure with flow meter and pressure gauges. All applicable guidelines in this document shall be applied to the SMMC force main portion of the project, including working with the OWNER for the installation, integration, and startup of the new equipment. A map of this site is included in the attachments. Bidding on this optional portion of the project is not a requirement of the bid, but omitting will be factored into the decision of awarding the bid.

V. SYSTEM START-UP

The CONTRACTOR shall work with the OWNER and any subcontractors or equipment suppliers to ensure that the completed project is fully functional per their approved design proposal and to troubleshoot and repair defective equipment or systems. Training of the OWNER personnel on all equipment supplied by the CONTRACTOR is to be included in the scope of work. All alarm conditions and shutdowns shall be simulated and tested during the startup by the OWNER.

VI. WARRANTY PERIOD

The CONTRACTOR shall address all operational issues that arise for a period of (1) year, beginning on the day of Substantial Completion. This includes furnishing all labor and materials needed to repair, replace, or otherwise correct all defective, failing or otherwise inoperable components of the station, excluding work and equipment provided by the OWNERS. A 5% retainage shall be held until substantial completion; a 2% retainage shall be held for the one year warranty period.

VII. RECORD DRAWINGS AND O&M MANUALS

The CONTRACTOR shall be responsible for preparation of records drawings that accurately reflect all work done. The record drawings shall be provided upon completion of the project, An O&M manual shall be provided upon completion of the project that includes detailed information on the operations and maintenance of all critical equipment per the manufacturer's

recommendations. The CONTRACTOR shall work with the OWNER to include documentation on instrumentation and controls in the O&M. The CONTRACTOR shall provide the record drawings and O&M as a DWG and PDF, as well a one printed copy in a binder. The OWNER shall supply information for the electrical aspects of the project to the CONTRACTOR to be included in the final copy of the O&M. For the purpose of O&M library and SCADA/PLC ID tags, the Station shall be labeled as “#4 – FMI Pump Station” The binder shall include the following sections:

- A. SCADA control drawings
- B. Arc flash electrical analysis
- C. Pump data
- D. Drawings
- E. Misc. (instrumentation and other components)

VIII. CONTENTS OF PROPOSAL

The proposal shall include the following:

- A. Technical Proposal:
 - i. Scope of work
 - ii. Proposed station design, layout & site plan
 - iii. Sequence of work
 - iv. Schedule
- B. Cost Proposal: The cost proposal shall be a lump sum price, with the exception of concrete repairs to the wet well, and the offsite replacement of the SMMC Pump Station force main. Concrete repairs and SMMC Pump Station force main shall listed separately from lump sum. If the CONTRACOT does not wish to include the SMMC force main item as part of their bid, include as a line item with “NA” in place of a cost. An allowance of \$5,000 for traffic management flaggers shall be carried in the cost proposal by all bidders. This equates to approximately 200 man-hours of onsite flagger personnel.
- C. Detailed list of exceptions or proposed modifications.
- D. Qualifications/Project Staffing per section III-H.
- E. Proof of bonding and insurance

IX. PROPOSAL EVALUATIONS

Each qualified proposal will be evaluated based on the proposer's qualifications and experience, experience of project personnel, the quality and thoroughness of the proposal, the ability to complete the work within the desired project schedule, and cost. The OWNER reserves the right to reject any and all proposals that are not considered responsive to the RFP or not considered to be in the best interests of the City of Biddeford. The OWNER also reserves the right to approve or disregard the itemized portions of the proposal for any reason (Concrete repairs, SMMC Pump Station Force Main replacement.)

X. PROPOSAL SUBMITTAL INSTRUCTIONS

Interested Contractors shall submit proposals in a sealed envelope plainly marked “**Request for Proposal (RFP) Design/Build Services for FMI Pump Station Upgrade**” to:

Alex Buechner, Wastewater Superintendent
City of Biddeford
Public Works Department
371 Hill Street
Biddeford Maine 04005

Proposal must be submitted before 1:00 PM on June 4th. Proposals received after that date and time shall not be considered.

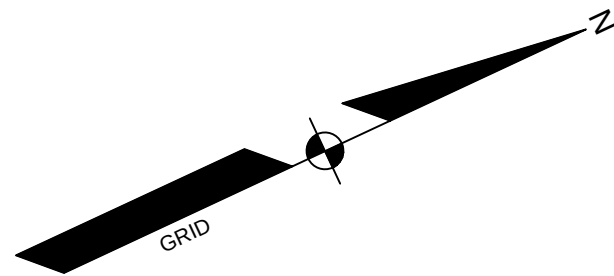
For clarification regarding any aspect of this RFP, contact the Wastewater Superintendent at the above address or by calling (207) 282-1350 or by emailing alex.buechner@biddefordmaine.org. A mandatory pre-bid site visit must be completed prior to submitting a proposal.



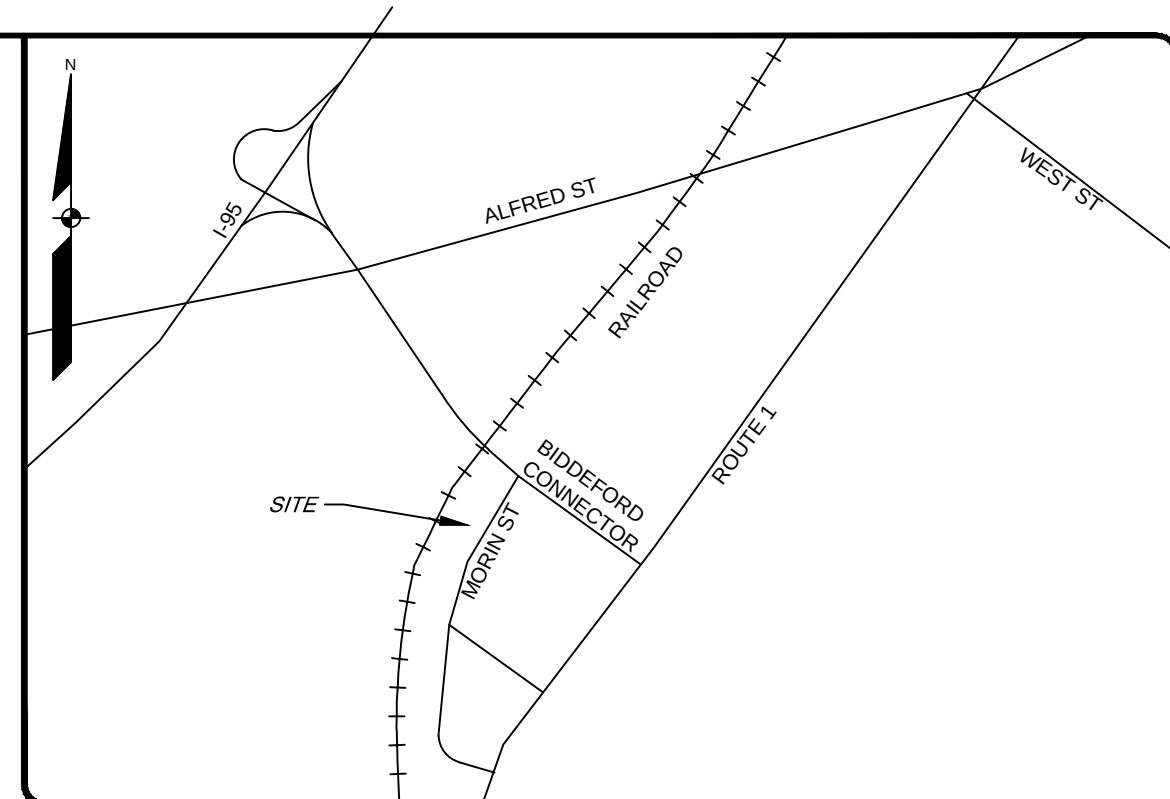
Existing electrical service

Existing Wetwell
and pump room

Existing valve pit



PROPERTY CURVE TABLE			
CURVE	LENGTH	RADIUS	CRD BEARING
CT	968.12'	3872.45'	N 25° 21' 28" E
			965.52'



LOCATION MAP

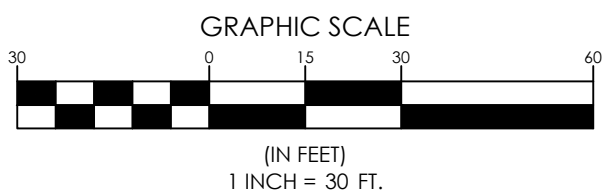
N.T.S.

GENERAL NOTES:

- THE RECORD OWNER OF THE PARCEL IS BARRETTE OUTDOOR LIVING, INC. BY DEED DATED MARCH 5, 2019 AND RECORDED AT THE YORK COUNTY REGISTRY OF DEEDS (YCRD) IN BOOK 17907, PAGE 853.
- THE PROPERTY IS SHOWN AS LOT 24 ON THE CITY OF BIDDEFORD TAX MAP 12 AND IS LOCATED IN THE GENERAL INDUSTRIAL (I-1) DISTRICT.
- SPACE AND BULK CRITERIA FOR THE I-1 DISTRICT ARE AS FOLLOWS:
MINIMUM STREET FRONTAGE: 50 FT
MINIMUM FRONT YARD: 40 FT (MAJOR ROW), 30 FT (OTHER ROW)
MINIMUM SIDE YARD: 25 FT
MINIMUM REAR YARD: 25 FT
MAXIMUM BUILDING HEIGHT: 6 STORIES/60 FT
* SEE ORDINANCE FOR MORE PARTICULAR INFORMATION.
- TOTAL AREA OF PARCEL IS APPROXIMATELY 11.5 ACRES.
- BOUNDARY INFORMATION IS BASED UPON PLAN REFERENCE 6A. TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED UPON FIELD WORK PERFORMED BY SEBAGO TECHNIQS, INC. IN DECEMBER OF 2020. FIELD WORK WAS COMPLETED UNDER HEAVY SNOW COVER.
- PLAN REFERENCES:
A. "SUBDIVISION PLAN BIDDEFORD TEXTILE COMPANY, MORIN STREET, BIDDEFORD, MAINE" DATED MAY 20, 1997 REVISED THROUGH JULY 3, 1997 BY PAUL P. GADBOIS AND RECORDED AT THE YCRD IN PLAN BOOK 234, PAGE 47.
B. "PLAN SHOWING A STANDARD BOUNDARY SURVEY AND A TOPOGRAPHIC SITE SURVEY MADE FOR CENTRAL MAINE POWER COMPANY, BIDDEFORD, MAINE" DATED JUNE 30, 1988 AND REVISED THROUGH NOVEMBER 22, 1988 BY DOW AND COULOMBE, INC. AND RECORDED AT THE YCRD IN PLAN BOOK 175, PAGE 28.
C. "PLAN OF THE BIDDEFORD INDUSTRIAL PARK, BIDDEFORD, MAINE" DATED JULY 1, 1977 BY WELLS ENGINEERING AND RECORDED AT THE YCRD IN PLAN BOOK 87, PAGE 37.
- PLAN ORIENTATION IS GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE 1802-NAD83. ELEVATIONS DEPICTED HEREON ARE NAVD83, BASED ON DUAL FREQUENCY GPS OBSERVATIONS.
- BENCHMARK:
BM-1 HORIZONTAL SPIKE IN UTILITY POLE 320 ELEVATION: 131.49' (NAVD88)
BM-2 BOX CUT IN SEWER PUMP STATION STRUCTURE ELEVATION: 115.14' (NAVD88)
- UTILITY INFORMATION DEPICTED HEREON, UNLESS OTHERWISE NOTED, IS OF QUALITY LEVEL D PER AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD CIASCE 38-02. UTILITIES DEPICTED HEREON MAY NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES. CONTRACTORS AND/OR DESIGNERS NEED TO CONTACT DIG-SAFE SYSTEMS, INC. (1-888-DIG-SAFE) AND FIELD VERIFY EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION AND/OR EXCAVATION.
- THE LOCUS PROPERTY AS DEPICTED HEREON DOES NOT FALL WITHIN A SPECIAL FLOOD HAZARD AREA AS DELINEATED ON THE FLOOD INSURANCE RATE MAP FOR BIDDEFORD, MAINE, YORK COUNTY, COMMUNITY-PANEL NUMBER 230145-0008-B HAVING AN EFFECTIVE DATE OF MAY 15, 1984. THE LOCUS FALLS WITHIN AN AREA IDENTIFIED AS ZONE C, AREAS OF MINIMAL FLOODING.
- A WETLAND DELINEATION WAS PERFORMED ON THIS PROJECT SITE IN DECEMBER, 2020 BY GARY M. FULLERTON, CERTIFIED SOIL SCIENTIST OF SEBAGO TECHNIQS, INC. THIS DELINEATION CONFORMS TO THE STANDARDS AND METHODS OUTLINED IN THE 1987 WETLANDS DELINEATION MANUAL AND NORTHEAST REGIONAL SUPPLEMENT AUTHORED AND PUBLISHED BY THE U.S. ARMY CORPS OF ENGINEERS. ALL WETLAND FLAGS WERE LOCATED USING GLOBAL POSITIONING SYSTEMS (GPS) TECHNOLOGY CAPABLE OF SUBMETER ACCURACY.
- THERE WAS NO EASEMENT FOUND FOR THE GAS LINE CROSSING THE SURVEYED PREMISES.
- THE SEWER EASEMENT DEPICTED ON PLAN REFERENCE 6C APPEARS TO BE A PROJECTION OF THE LINE RUNNING PERPENDICULAR TO LAND NOW OR FORMERLY OF PAN AM RAILWAYS, INC.. THERE IS NO DEFINITION OF THIS EASEMENT ON THE PLAN.

LEGEND

- EXISTING
- PROPERTY LINE O.W.
 - ABUTTER LINE O.W.
 - SETBACK
 - CENTERLINE
 - IRON PIPE/ROD
 - C/L/L CURVE/LINE NO.
 - N/F NOW OR FORMERLY
 - BM-1 BENCHMARK
 - BUILDING
 - EDGE WETLAND
 - WETLANDS
 - UPLANDS
 - STREAM
 - EDGE PAVEMENT
 - EDGE CONCRETE
 - PAVEMENT PAINT
 - EDGE GRAVEL
 - CURB LINE
 - TREELINE
 - CONTOURS
 - SPOT GRADE
 - CHAIN LINK FENCE
 - BOLLARD
 - SIGN
 - SANITARY MANHOLE
 - CATCH BASIN
 - OHU OVERHEAD UTILITY
 - ELECTRIC METER
 - UTILITY POLE
 - GUY WIRE
 - EDGE WETLAND
 - WETLANDS
 - SD STORM DRAIN
 - S SANITARY SEWER
 - G GAS
 - WATER GATE VALVE
 - BOULDER



BIDDEFORD CONNECTOR

EXISTING CONDITIONS SURVEY

OF: BARRETTE OUTDOOR LIVING

4 MORIN STREET

BIDDEFORD, ME

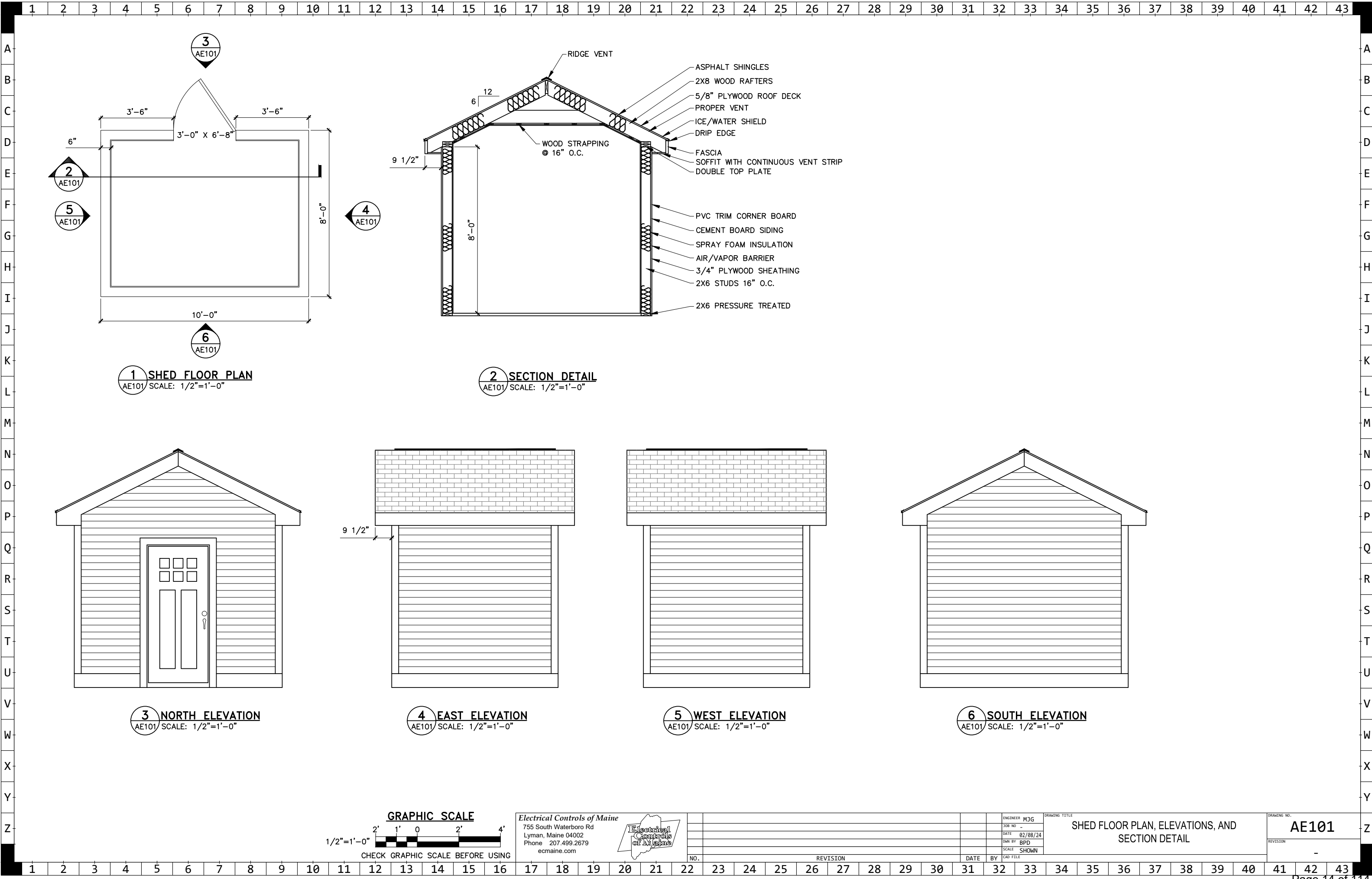
FOR: BARRETTE OUTDOOR LIVING

545 TILTON ROAD

EGG HARBOR CITY, NJ 08215

DESIGNED	-
DRAWN	JIB/AMJ
CHECKED	MWE/TSLS
DATE	12/01/2020
SCALE	1" = 30'
PROJECT	20350

SHEET 1 OF 1

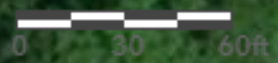




SMMS Pump Station Force Main Replacement

Approximate location of new dry pit to house flow meter and pressure gauges

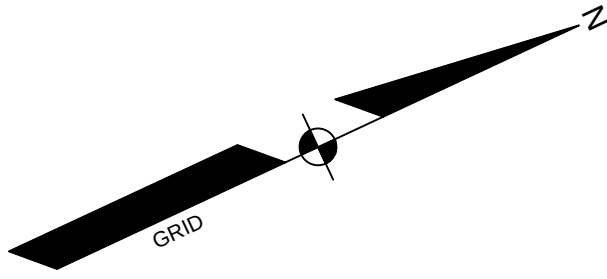
Replacement of 550 ft of 6" force main



Project:

Date:

[illegible]



PROPERTY CURVE TABLE			
CURVE	LENGTH	RADIUS	CRD BEARING
CT	968.12'	3872.45'	N 25° 21' 28" E
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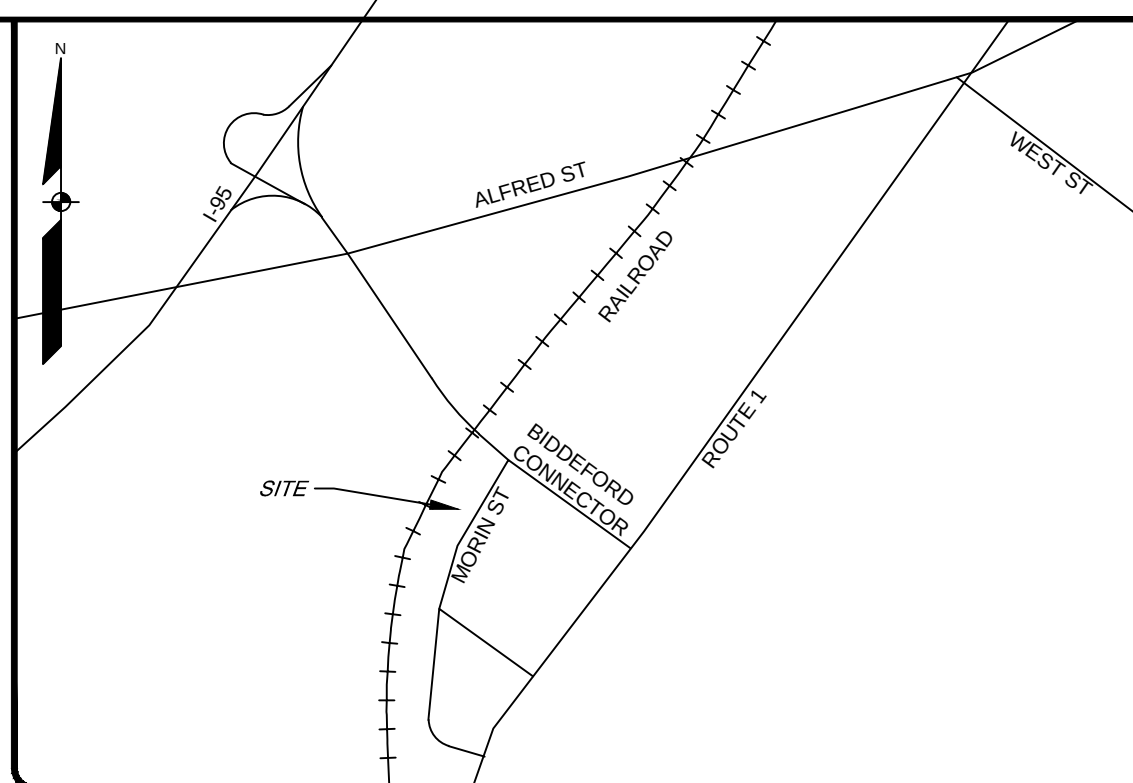
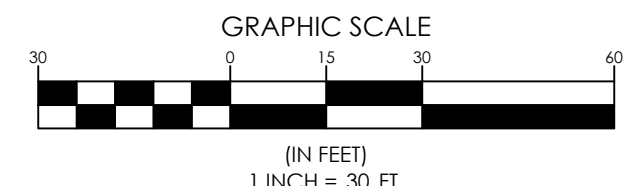
30" CMP
INV.=112.08

30" CMP
INV.=113.14

N/F
BARRETTE OUTDOOR LIVING, INC
MAP 2 LOT 73
17907-853

LEGEND

- EXISTING**
- PROPERTY LINE O.W.
 - ABUTTER LINE O.W.
 - SETBACK
 - CENTERLINE
 - IRON PIPE/ROD
 - C/L/L
 - N/F
 - BM-1
 - BUILDING
 - EDGE WETLAND
 - WETLANDS
 - UPLANDS
 - STREAM
 - EDGE PAVEMENT
 - EDGE CONCRETE
 - PAVEMENT PAINT
 - EDGE GRAVEL
 - CURB LINE
 - TREELINE
 - CONTOURS
 - SPOT GRADE
 - CHAIN LINK FENCE
 - BOLLARD
 - SIGN
 - SANITARY MANHOLE
 - CATCH BASIN
 - OHU
 - OVERHEAD UTILITY
 - ELECTRIC METER
 - UTILITY POLE
 - GUY WIRE
 - EDGE WETLAND
 - WETLANDS
 - SD
 - STORM DRAIN
 - S
 - SANITARY SEWER
 - G
 - GAS
 - WATER GATE VALVE
 - BOULDER



LOCATION MAP N.T.S.

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- SPACE AND BULK CRITERIA FOR THE I-1 DISTRICT ARE AS FOLLOWS:
MINIMUM STREET FRONTAGE: 50 FT
MINIMUM FRONT YARD: 40 FT (MAJOR ROW), 30 FT (OTHER ROW)
MINIMUM SIDE YARD: 25 FT
MINIMUM REAR YARD: 25 FT
MAXIMUM BUILDING HEIGHT: 6 STORIES/60 FT
* SEE ORDINANCE FOR MORE PARTICULAR INFORMATION.
- TOTAL AREA OF PARCEL IS APPROXIMATELY 11.5 ACRES.
- BOUNDARY INFORMATION IS BASED UPON PLAN REFERENCE 6A. TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED UPON FIELD WORK PERFORMED BY SEBAGO TECHINCS, INC. IN DECEMBER OF 2020. FIELD WORK WAS COMPLETED UNDER HEAVY SNOW COVER.
- PLAN REFERENCES:
A. "SUBDIVISION PLAN BIDDEFORD TEXTILE COMPANY, MORIN STREET, BIDDEFORD, MAINE" DATED MAY 20, 1997 REVISED THROUGH JULY 3, 1997 BY PAUL P. GADBOIS AND RECORDED AT THE YCRD IN PLAN BOOK 234, PAGE 47.
B. "PLAN SHOWING A STANDARD BOUNDARY SURVEY AND A TOPOGRAPHIC SITE SURVEY MADE FOR CENTRAL MAINE POWER COMPANY, BIDDEFORD, MAINE" DATED JUNE 30, 1988 AND REVISED THROUGH NOVEMBER 22, 1988 BY DOW AND COULOMBE, INC. AND RECORDED AT THE YCRD IN PLAN BOOK 175, PAGE 28.
C. "PLAN OF THE BIDDEFORD INDUSTRIAL PARK, BIDDEFORD, MAINE" DATED JULY 1, 1977 BY WELLS ENGINEERING AND RECORDED AT THE YCRD IN PLAN BOOK 87, PAGE 37.
- PLAN ORIENTATION IS GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE 1802-NAD83. ELEVATIONS DEPICTED HEREON ARE NAVD88, BASED ON DUAL FREQUENCY GPS OBSERVATIONS.
- BENCHMARK:
BM-1 HORIZONTAL SPIKE IN UTILITY POLE 320 ELEVATION: 131.49' (NAVD88)
BM-2 BOX CUT IN SEWER PUMP STATION STRUCTURE ELEVATION: 115.14' (NAVD88)
- UTILITY INFORMATION DEPICTED HEREON, UNLESS OTHERWISE NOTED, IS OF QUALITY LEVEL D PER AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD CIASCE 38-02. UTILITIES DEPICTED HEREON MAY NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES. CONTRACTORS AND/OR DESIGNERS NEED TO CONTACT DIG-SAFE SYSTEMS, INC. (1-888-DIG-SAFE) AND FIELD VERIFY EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION AND/OR EXCAVATION.
- THE LOCUS PROPERTY AS DEPICTED HEREON DOES NOT FALL WITHIN A SPECIAL FLOOD HAZARD AREA AS DELINEATED ON THE FLOOD INSURANCE RATE MAP FOR BIDDEFORD, MAINE, YORK COUNTY, COMMUNITY-PANEL NUMBER 230145-0008-B HAVING AN EFFECTIVE DATE OF MAY 15, 1984. THE LOCUS FALLS WITHIN AN AREA IDENTIFIED AS ZONE C, AREAS OF MINIMAL FLOODING.
- A WETLAND DELINEATION WAS PERFORMED ON THIS PROJECT SITE IN DECEMBER, 2020 BY GARY M. FULLERTON, CERTIFIED SOIL SCIENTIST OF SEBAGO TECHINCS, INC. THIS DELINEATION CONFORMS TO THE STANDARDS AND METHODS OUTLINED IN THE 1987 WETLANDS DELINEATION MANUAL AND NORTHEAST REGIONAL SUPPLEMENT AUTHORED AND PUBLISHED BY THE U.S. ARMY CORPS OF ENGINEERS. ALL WETLAND FLAGS WERE LOCATED USING GLOBAL POSITIONING SYSTEMS (GPS) TECHNOLOGY CAPABLE OF SUBMETER ACCURACY.
- THERE WAS NO EASEMENT FOUND FOR THE GAS LINE CROSSING THE SURVEYED PREMISES.
- THE SEWER EASEMENT DEPICTED ON PLAN REFERENCE 6C APPEARS TO BE A PROJECTION OF THE LINE RUNNING PERPENDICULAR TO LAND NOW OR FORMERLY OF PAN AM RAILWAYS, INC.. THERE IS NO DEFINITION OF THIS EASEMENT ON THE PLAN.

BIDDEFORD CONNECTOR

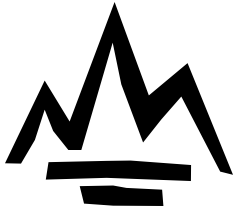
EXISTING CONDITIONS SURVEY
OF:
BARRETTE OUTDOOR LIVING
4 MORIN STREET
BIDDEFORD, ME
FOR:
BARRETTE OUTDOOR LIVING
545 TILTON ROAD
EGG HARBOR CITY, NJ 08215

DESIGNED	-
DRAWN	JIB/AMJ
CHECKED	MWE/TSLS
DATE	12/01/2020
SCALE	1" = 30'
PROJECT	20350

SHEET 1 OF 1

2025REC-0001-1A-BEC

SEBAGO
TECHNICS
75 John Roberts Rd.
Suite 4A
South Portland, ME 04106
Tel. 207-200-2100
WWW.SEAGOTECHNICS.COM



Apex Construction, Inc.

361 RT 108, Unit 1
Somersworth, NH 03878

(603)330-3600
fax: (603)330-3690

June 11, 2024

Mr. Alex Buechner
Wastewater Superintendent
City of Biddeford

Re: Design-Build for FMI Pump Station

Dear Mr. Buechner,

Pursuant to your RFP of April 18, 2024, this proposal is transmitted for the FMI pump station and the West Cole Road/ SMMC sewer force main upgrades for the City of Biddeford, ME (Owner). Apex Construction, Inc. (Apex, Contractor) has teamed with Brown & Caldwell (B&C, Engineer) and RJ Grondin (sitework) to deliver a well furnished project as requested in the RFP. Apex and B&C have a long history of collaborating on pump station design and construction work, serving to meet this opportunity with great success and a high level of proficiency and cost effectiveness. The City's goals to have well functioning and easily maintained pump stations, delivered through a practical, streamlined, and efficient design-build approach, align extremely well with our team's philosophy and expertise. For these reasons, we are excited to propose and complete this work for the City through what is sure to be a successful project.

This proposal contains a general scope of work with pricing based upon initial assumptions gained and summarized in the RFP and many years of experience in the design and construction of wastewater pumping stations and force mains. Further documentation will show schedule, qualifications, and bonding and insurance capabilities, as requested.

1. Scope of Work

Design Services

Please refer to B&C scope proposal for inclusions and limitations related to the design services for this project. Cost for B&C has been included in the lump sum pricing in part 5 of this proposal. These design services will add detail and specifications to the general scope outlined here, along with final stamped plans for record.

FMI Pump Station Upgrade Construction:

1. Initial site preparations including sediment and erosion control, dig safe, mobilization of equipment and temporary facilities.
2. Installation of force main bypass assemblies for existing force mains, through use of live tapping sleeves and valves and insertion valves. Force main bypass assemblies

- will be utilized for handling existing flows temporarily and remain permanently for use in the future as needs arise.
3. New duplex submersible pumps with base elbows, guide rails and supports.
 4. SS davit crane and base with SS lifting cables for each pump.
 5. New 6" DI force mains from submersible pumps through vaults to existing valve vault, combining with existing 8" force main.
 6. Replacement of valves in existing valve vault and reconfiguration to 8" x 6" pipe size.
 7. New pump station valve pit and flow meter vaults for pump isolation, pump station bypassing, pressure and flow monitoring.
 - a. Vaults to consist of precast concrete structures with aluminum access hatches and safety grates.
 - b. Bypass assembly and pressure gauge arrangement to be like West Cole Road PS with bypass connection in the vault and gauges observable from hatch opening.
 8. Handling flows to bypass existing pump station from upstream manhole to bypass assembly for duration of wetwell work. Power from existing electrical service will be needed for electric pump.
 9. Rehabilitation of existing wetwell spall and crack repair, based on unit price.
 10. Adjust/ replace top slab to allow access and maintenance of submersible pumps.
 11. Demolition and abandonment of existing pump vault through cutting down below grade and entombment with flowable fill.
 12. New 8'x10' slab on grade for electrical building provided by Owner.
 13. Excavation and backfill for electrical trenching between utility pole, electrical building, wetwell, and meter vault. Conduit, concrete encasement, etc. by Owner.
 14. Four (4) new precast bollards provided and installed, location TBD.
 15. General site grading and restoration to pre-construction conditions, plus loam, seed and mulch in off-road areas disturbed.
 16. Provide pump station startup and training services by manufacturer's representatives.
 17. Provide final inspection by B&C for conformance with drawings and specifications.
 18. Provide final as-built redline drawings for record purposes.

West Cole Rd PS/ SMMC Force Main Upgrade Construction:

1. Initial site preparations including sediment and erosion control, dig safe, mobilization of equipment and temporary facilities.
2. Supply and install of approximately 550-feet of 6" HDPE force main from existing pump station area to discharge point.
3. Supply and install new precast meter pit at pump station.
 - a. Vault includes precast structure with aluminum access hatch and safety grate.
 - b. New mag meter supplied and installed.
 - c. DI piping to be used to connect to existing FM and route through new meter pit, transition to HDPE once piping begins to extend along roadway.
 - d. Buried gate valves provided for flow meter isolation and replacement.
4. \$5,000 traffic control allowance included, but actual cost likely to exceed \$17,500.
5. Trench paving sawcut and patch pave up to 5" pavement thickness.

6. General site grading and restoration to pre-construction conditions, plus loam, seed and mulch in off-road areas disturbed.
7. Provide final inspection by B&C for conformance with drawings and specifications.
8. Provide final as-built redline drawings for record purposes.

2. Assumptions and Limitations (both project areas)

The following items are understood to be mutually agreeable and scope can be revised if desired:

1. Permitting and any fees by Owner.
2. Boundary and topo survey provided by Owner.
3. No hazardous material accommodations included.
4. No special insurances or licenses included.
5. No sales tax included, Owner assumed to be tax exempt.
6. No prevailing wage, AIS/ BABA or other requirements.
7. Groundwater assumed to necessitate only “normal excavation dewatering” with basic sumps and small electric pumps. Deep wells, well points, or other engineered measures not foreseen or included.
8. Soils assumed to be granular and suitable for bearing capacity and backfill. No “unsuitable soils” or ledge/ rock/ boulder excavation and backfill included.
9. Existing force main piping assumed to be buried at approximately 5-feet below grade.
10. No electrical, instrumentation, or controls included, unless otherwise specifically noted (flow meters, pressure gauges).
11. Electrical service expense, fees or charges are unknown and are excluded. Electrical for bypass pumping also excluded.
12. Pump motor size may be larger than existing pumps and could require electrical service upgrade. Submersible pump HP is dependent upon hydraulic conditions and coordination will be needed during design phase.
13. Startups, O&M manuals, etc. are included for equipment supplied only, as appropriate.
14. Construction schedule to be reasonable and long lead times are expected for equipment, but 1-year duration requested in RFP should be attainable. No liquidated damages accepted.
15. Existing buried pipelines or structures which become obsolete through this upgrade are to be abandoned in place unless otherwise noted in this proposal.
16. 1 year warranty included from date of beneficial utilization at each project area.
17. Record documentation in the form of as-built drawings and material data sheets and O&Ms to be provided by Contractor.

3. Details/ Sketches

Please refer to attached drawings showing proposed site plan/ schematic with valve vault layout schematics.

4. Schedule

Anticipated schedule provided as attachment. Due to design duration and expected material lead times, this project’s mobilization appears to begin spring 2025.

5. Cost

Lump sum cost for FMI Pump Station = \$844,854

Unit price shallow spall repair at wetwell (per SF) = \$140/ SF

Unit price deep spall repair at wetwell (per SF) = \$180/ SF

Unit price epoxy or polyurethane concrete crack injection (per LF) = \$100

Lump sum cost for West Cole Rd. PS/ SMMC FM (incl. \$5,000 traffic allowance) = \$218,800

5% retainage to Substantial Completion (SC), 2% retainage 1 year from SC.

6. Qualifications/ Project Staffing

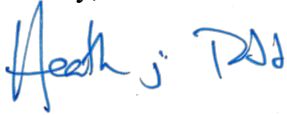
Please refer to attached information on the project team, including qualifications statement, organizational chart, resumes of key personnel, and list of completed projects having similar scope, and list of projects on hand.

7. Bonding and Insurance

Please refer to attached information containing bonding statement and insurance certificate.

Please contact me with any questions you might have after review of this proposal. If you would like anything added to or removed from Apex's scope of work, proposal can be modified accordingly. We look forward to working with the City of Biddeford again and appreciate the invitation to bid on this important project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Heath J. Todd".

Heath J. Todd, P.E.

President

Apex Construction, Inc.

Design Services

200 Brickstone Square
Suite 403
Andover, MA 01810

T: 978.794.0336
T: 978.983.2054 (Richards), 978.983.2069 (Mahoney)

June 7, 2024



Proposal

Heath Todd, PE
Apex Construction, Inc.
361 Route 108, Unit 1
Somersworth, NH 03878

Subject: Biddeford FMI Pump Station Engineering Services Proposal

Dear Heath,

At your request, Brown and Caldwell (BC) is pleased to provide this proposal for engineering services for the upgrade of the FMI pump station in Biddeford, ME. We have also included optional tasks for design activities related to the replacement of the SMMC forcemain.

Project Understanding

FMI Pump Station

The Town of Biddeford owns and operates the FMI Pump Station located off Morin Street. The pump station is currently configured as a wetwell with subterranean dry pit pump vault. The goals of the project include:

- Install two (2) new submersible pumps in the wetwell;
- Decommission the dry pit, pumps and related controls;
- Install a new 6-inch forcemain (FM) from the FMI pump station to the new valve vault;
- Install a new flow meter vault adjacent to the FMI pump station on the new 6-inch FM with pressure gauges and a drain line and check valve back to the wetwell;
- Install a new valve vault near the existing valve vault where the FMI PS and Shape PS FMs combine. This valve vault will include new check valves, isolation valves and bypass valves and fittings, and;
- Install a new concrete slab-on-grade building to house electrical gear and instrumentation. The building will be designed and provided by the City of Biddeford.

SMMC Pump Station

The Town of Biddeford also owns and operates the SMMC Pump Station located off West Cole Road. The goals of the project include:

- Replace 550 feet of existing 6-inch forcemain, and;
- Install new flow meter vault with pressure gauges and a drain back to the existing wetwell.

BC Scope of Work

BC's scope of work will include the following milestones:

- Task 1 – Project Management
- Task 2 – Basis of Design Memo
- Task 3 – 60% Detailed Design
- Task 4 – 100% (Final) Design
- Task 5 – Construction Phase Services

Efforts for each of these tasks is summarized as follows:

Task 1 – Project Management

BC's will supervise and coordinate the scope of work, design phase budget tracking, design phase schedule, team members' roles and responsibilities and key project success factors.

Activities

1. Detailed design phase Kick-off Meeting will be held with BC and Apex. City of Biddeford representatives may attend at Apex's discretion;
2. Prepare for and attend four (4) project meetings;
3. Project Management Plan that includes:
 - a. Work breakdown structure that identifies BC resources and responsibilities necessary to respond to the approved work scope;
 - b. Project design schedule;
 - c. Quality assurance program, communication protocols, invoicing requirements, and project procedures, such as filing systems, charge numbers, and document format.
4. Prepare Monthly Progress Reports to include:
 - a. Work completed for prior month;
 - b. Estimated percent completion for each activity;
5. Prepare invoices for submission to Apex for payment.

Assumptions

1. The project duration is assumed to be 3 months for design and up to 4 months for construction phase.
2. BC will monitor, manage, and coordinate the activities of the BC team, project schedule, progress, and budget for the project, including schedule updates, and contract management. This Activity also includes the following:
 - a. Apex Coordination - BC will coordinate with Apex as required to discuss approach and progress to complete the project in a timely fashion;
 - b. Project Invoicing and Administration - BC will prepare monthly, project-level invoices using the BC's standard invoice format and monthly progress reports documenting completed activities, scope variances, if any, and estimated percentages complete by project phase.
3. Apex will provide a single point of contact for BC to interface with and coordinate work activities.

4. Apex via the City of Biddeford will make available in a timely manner all records and documents relative to the project, as available, for completion of the work under the above detailed scope. Such materials may be relied upon for BC's work.

Deliverables

1. Detailed design Kick-off Meeting agenda and notes;
2. Monthly progress updates and invoices.

Task 2 – Basis of Design Memo

Activities

1. FMI Pump Station:
 - a. Prepare Basis of Design memo with the following:
 - i. Proposed site layout drawing including existing and new pipelines and structures;
 - ii. Identify site demolition work;
 - iii. Wetwell modifications – It is assumed the existing wet well will be reused with only minor modifications required.
 - iv. Wetwell layout with proposed submersible pumps, base elbows and slide rails;
 - v. Hydraulic evaluation – Review available flow data and conduct hydraulic analysis to confirm station design criteria and candidate pump sizing;
 - vi. Specifications for candidate pump selection, valve, fittings, piping, instrumentation and cast in place / precast concrete;
 - vii. Develop electrical load lists, equipment lists, valve lists, and calculations for pumps;
 - viii. Electrical and Instrumentation & Controls (EI&C) will be by others;
 - ix. Develop draft Basis of Design Report and 30% design drawings (Civil and Mechanical).
 - b. Meet with Apex to review the Basis of Design Report.
2. SMMC Pump Station (optional tasks):
 - a. Prepare proposed meter vault and forcemain layout sketches

Assumptions

All electrical and control design will be by others. BC's scope for EI&C design activities will be limited to supplying an electrical load summary and instrumentation summary;

Deliverables

1. Draft Basis of Design Report;
2. Draft specifications;
3. Written response to BODR comments;
4. Final Basis of Design Report.
5. SMMC layout sketches

Task 3 – 60% Detailed Design

Following acceptance of the BODR, design activities will progress to the 60% design submittal.

Activities

1. FMI Pump Station:
 - a. Incorporate BODR comments and prepare 60% detailed drawing sheets and specifications for Civil, Process Mechanical, and instrumentation components;
 - b. Civil –Yard piping and site utilities, final site grading, erosion plan and stormwater plan;
 - c. Structural - Final details for structural pad. All structural work will be shown on Civil or Mechanical drawings;
 - d. Process-Mechanical –Final station, tie-in, flow meter vault, and valve vault plan and sections, mechanical details. Finalize all mechanical calculations;
 - e. Flow meter sizing and vault layout;
 - f. EI&C – All by others, except flow meter;
 - g. Meet with Apex to review the 60% design submittal.
2. SMMC Pump Station:
 - a. Civil – Forcemain and site utilities, final site grading, erosion control and stormwater plans.
 - b. Process-Mechanical –Flow meter sizing, vault layout and tie-in,
3. Meet with Apex to review the 60% design submittal for both projects locations.

Assumptions

1. Apex will review and provide one set of comments on the 60% design submittal. These comments will be reviewed and incorporated into the 100% design submittal.
2. One meeting will be conducted for the 60% review.
3. BC will be developing drawings and specifications for civil, process-mechanical, and structural.

Deliverables

1. 60% Drawings and Specifications (electronic delivery)
2. 60% Design Review Meeting Agenda and Notes
3. Written response to 60% comments.

Task 4 – 100% (Final) Design

Activities

1. Incorporate all 60% design comments and prepare 100% (final) design documents;
2. Meet with Apex to review final design documents.

Deliverables

1. 100% Drawings and Specifications (engineer sealed with electronic delivery)

Task 5 – Construction Phase Services

During the construction phase, BC will provide the following services:

Activities

1. FMI Pump Station
 - a. Review the following shop drawings:
 - i. Precast concrete;
 - ii. Cast in place concrete mix design and rebar layout;
 - iii. Wastewater pumps and appurtenances;
 - iv. Pipe, valves and fittings;
 - v. Magnetic flow meter.
 - b. Respond to requests for information (assume 2 RFIs);
 - c. Conduct site visits (assume 2);
 - d. Prepare Final as-builts (CAD) based on Record Drawing markups from Apex.
2. SMMC Pump Station:
 - a. Review the following shop drawings:
 - i. Included in FMI effort, above.
 - b. Respond to requests for information (assume 1 RFI);
 - c. Conduct site visits (assume 2)
 - i. Included in FMI effort, above;
 - d. Prepare Final as-builts (CAD) based on Record Drawing markups from Apex.

Deliverables

1. Shop drawing review forms;
2. Site visit notes;
3. Record drawings.

Schedule

The following is the anticipated schedule to complete activities as reflected above.

Preliminary Design Schedule.		
Task	Duration (months)	Dates
Notice to Proceed		July 2024
Task 1 – BODR	2	July – August 2024
Task 2 – 60% Detailed Design	2	August – September 2024
Task 3 – 100% Detailed Design	1	September 2024
Task 4 – Construction Phase Administrative Services	3	TBD

It is understood that the work related to SMMC is optional and Apex may only contract to complete the work associated with the FMI PS.

Brown and Caldwell Limitations

- 1) BC's scope of work does not include:
 - a) Coordination with funding agencies (i.e. SRF program);
 - b) Permitting assistance;
 - c) Topographic survey – it is assumed that existing information is available from the City of Biddeford to complete the design(s);
 - d) EI&C building design - BC's design efforts related to the EI&C building are limited to designing the slab on grade;
 - e) Geotechnical evaluations – it is assumed that existing soil conditions are sufficient to support proposed structures – BC takes no responsibility for settlement, displacement or movement of any structures whatsoever;
 - f) Coordination with utility providers (i.e. CMP, Spectrum, etc);
 - g) Project inspection services during construction;
- 2) BC is not responsible for any schedule or cost impacts related to delays caused by protracted reviews, changes in scope of work, or other situations outside of our control.

Thank you again for the opportunity to provide this proposal. A formal contract will be provided to Apex for the above scope of work upon request. We look forward to the opportunity to perform the work for you. Please call if you have questions.

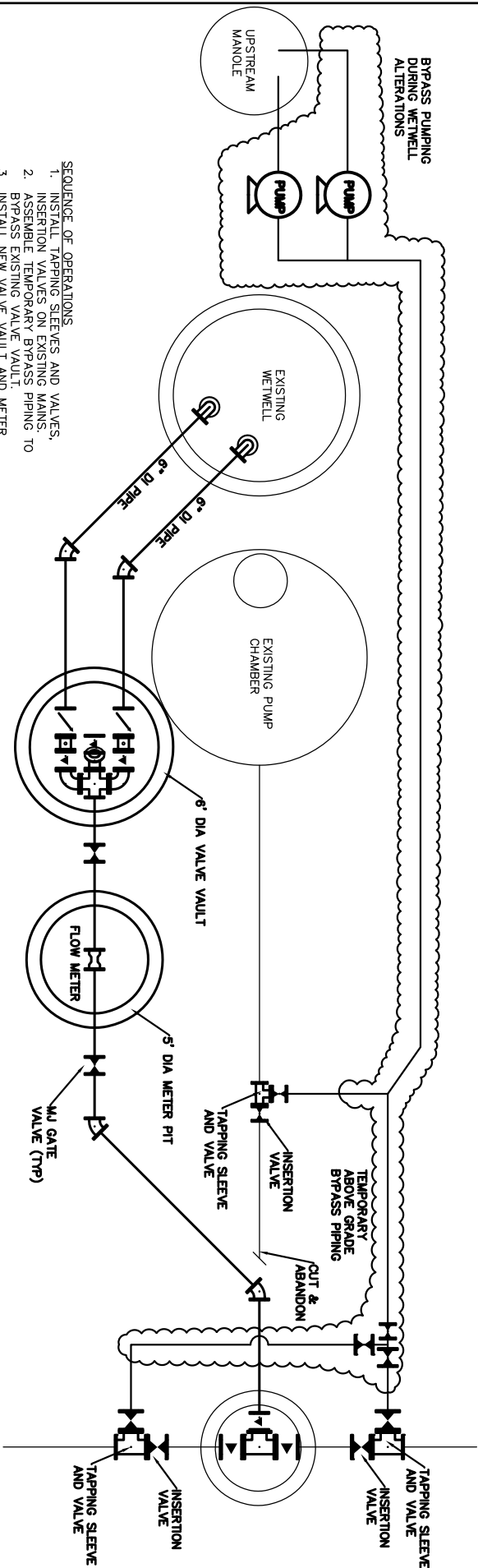
Very truly yours,
Brown and Caldwell

A handwritten signature in blue ink that reads "Mark Allenwood". The signature is fluid and cursive, with a large loop at the end.

Mark Allenwood, PE
Client Service Manager

Details/ Sketches

- SEQUENCE OF OPERATIONS.
1. INSTALL TAPPING SLEEVES AND VALVES, INSERTION VALVES ON EXISTING MAINS.
 2. ASSEMBLE TEMPORARY BYPASS PIPING TO BYPASS EXISTING VALVE VAULT.
 3. INSTALL NEW VALVE VAULT AND METER PIT, BURIED PIPING FROM EXISTING WETWELL THROUGH TO EXISTING VALVE VAULT.
 4. REPLACE VALVES IN EXISTING VALVE VAULT AND CONNECT NEW 6" FM.
 5. SETUP BYPASS PUMPING SYSTEM.
 6. INSTALL NEW SUBVERSIBLE PUMPS IN WETWELL.
 7. CONNECT POWER AND CONTROLS TO NEW PUMPS, STARTUP NEW PUMP STATION.
 8. REMOVE TEMPORARY BYPASS PROVISIONS.

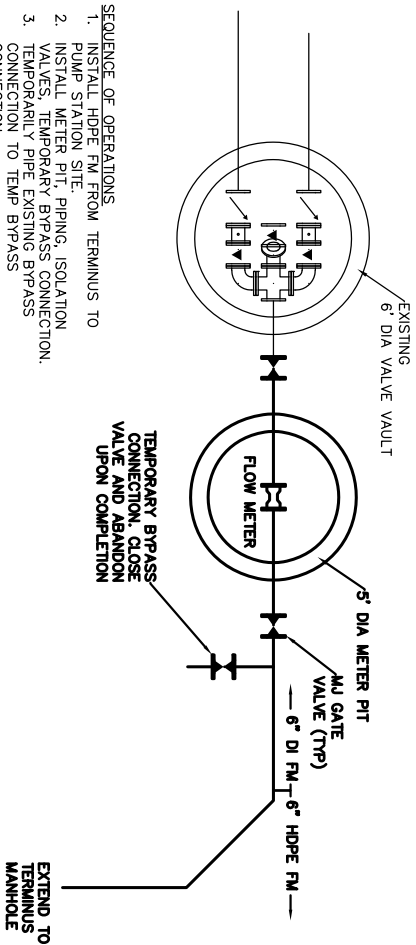


SCHEMATIC PLAN

SCALE: NTS

APEX CONSTRUCTION, INC.
PUMP STATION UPGRADE
SCHEMATIC
CITY OF BIDDEFORD, MAINE
FMI PUMP STATION UPGRADE

DRAWN BY: HJT DATE: 06-9-2024



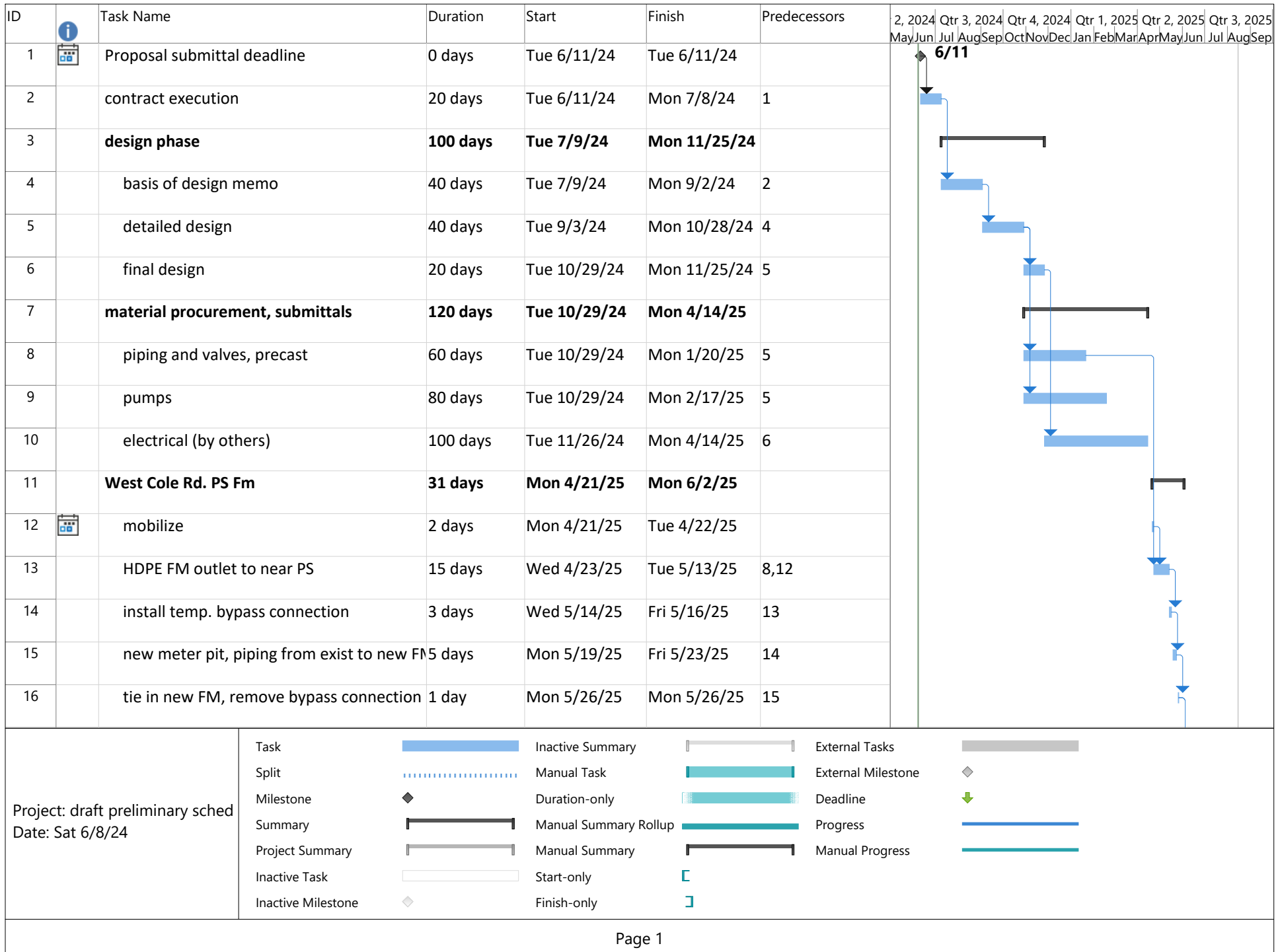
- SEQUENCE OF OPERATIONS:
1. INSTALL HOPE FM FROM TERMINUS TO PUMP STATION SITE.
 2. INSTALL METER PIT, PIPING, ISOLATION VALVES, TEMPORARY BYPASS CONNECTION.
 3. TEMPORARILY PIPE EXISTING BYPASS CONNECTION TO TEMP BYPASS CONNECTION.
 4. TIE IN NEW DI PIPING BETWEEN METER PIT AND EXISTING VALVE VAULT, ABANDON EXISTING FM.
 5. BEGIN FLOW THROUGH NEW PIPING TO TERMINUS.
 6. CLOSE TAP VALVE AND REMOVE TEMPORARY BYPASS PROVISIONS.

SCHEMATIC PLAN SCALE: NTS

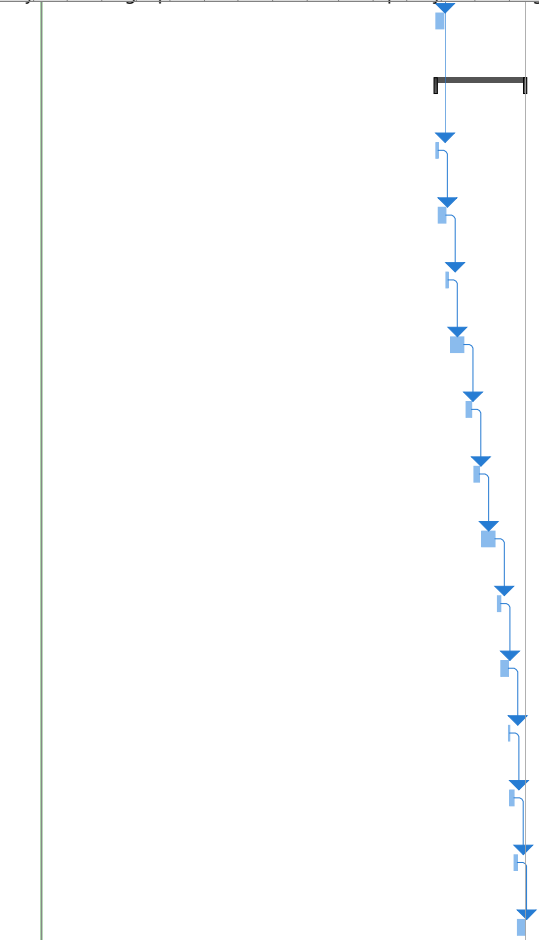
APEX CONSTRUCTION, INC.
 FORCE MAIN UPGRADE
 SCHEMATIC
 CITY OF BIDDEFORD, MAINE
 WEST COLE ROAD / SMMC FORCE
 MAIN UPGRADE

DRAWN BY: HJT DATE: 06-9-2024

Schedule



ID		Task Name	Duration	Start	Finish	Predecessors	2, 2024	Qtr 3, 2024	Qtr 4, 2024	Qtr 1, 2025	Qtr 2, 2025	Qtr 3, 2025
							May Jun	Jul Aug Sep	Oct Nov Dec	Jan Feb Mar Apr	May Jun Jul Aug Sep	
17		pave and restore	5 days	Tue 5/27/25	Mon 6/2/25	16						
18		FMI Pump Station	58 days	Tue 5/27/25	Thu 8/14/25							
19		mobilize	2 days	Tue 5/27/25	Wed 5/28/25	16						
20		bypass assemblies, temp piping	5 days	Thu 5/29/25	Wed 6/4/25	19						
21		replace existing VV valves	2 days	Thu 6/5/25	Fri 6/6/25	20						
22		new meter pit, valve vault, buried piping	10 days	Mon 6/9/25	Fri 6/20/25	21						
23		buried electrical	5 days	Mon 6/23/25	Fri 6/27/25	22						
24		elec building slab	5 days	Mon 6/30/25	Fri 7/4/25	23						
25		new elec building, elec and controls	10 days	Mon 7/7/25	Fri 7/18/25	24						
26		setup, startup bypass PS	3 days	Mon 7/21/25	Wed 7/23/25	25						
27		wetwell work, pump install	5 days	Thu 7/24/25	Wed 7/30/25	26						
28		pump startup	1 day	Thu 7/31/25	Thu 7/31/25	27						
29		remove bypass PS	2 days	Fri 8/1/25	Mon 8/4/25	28						
30		demo existing pump chamber	3 days	Tue 8/5/25	Thu 8/7/25	29						
31		restore site	5 days	Fri 8/8/25	Thu 8/14/25	30						



Project: draft preliminary sched
Date: Sat 6/8/24

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			

Qualifications/ Project Staffing

Design Experience and Corporation Structure

Apex is a family company owned by professional licensed engineers involved in every aspect of our projects. From cost estimation to purchasing and subcontracting, scheduling and coordination to startups and project closeout, principal ownership is intimately involved in big picture project management and fine details of construction to complete the work on time and under budget. Decades of experience in this field completing hundreds of projects provides great ability to use different resources to get the job done and an ability to anticipate problem areas before they arise. Experience working with multiple engineers and owners, as well as multiple treatment technologies and equipment allow insightful participation in the collaborative process needed for any construction project, especially one of the design-build format.

Before joining Apex Construction, Heath Todd was an engineer with Weston & Sampson in Portsmouth, NH, responsible for several sewer and pump station design projects and treatment plant upgrades. Specifically pertinent to this project include the Anna Maria College wastewater pump station, force main, and siphon, as well as several collection system and pump station designs in York, Kittery, Bethel, and other locations. The experience with Weston & Sampson served as the foundation for Apex's approach to pump station and design-build projects since that time.

Wastewater Infrastructure Construction Experience

Apex specializes in the construction of all aspects of treatment facilities and pump stations in Maine and New Hampshire. Review of work on hand and completed projects shows a diverse and comprehensive mix of projects spanning all stages of treatment and processing and extensive pump station replacements. Routine are the preparations and efforts necessary to maintain treatment, flows, and operations while construction is woven into existing facilities without overflows or violations. Apex projects vary in size and complexity throughout the wastewater and water infrastructure field, including headworks, grit, primary and secondary treatment and settling, disinfection, filtration, pumping, thickening, dewatering, conveyance and other operations. Apex is adept at, and teams with integration professionals applying sophisticated controls and instrumentation technology and SCADA automation and telemetry.

Design-Build Experience

Despite relatively infrequent design build opportunities in the region, Apex has participated in several design-build projects over the years, with very successful results. Apex has a proven track record of a cooperative and engaging approach to all formats of projects and we see this opportunity in Biddeford to be no different. Examples of applicable design-build experience for this project include:

University of New England WWTF Upgrade

The UNE WWTF Upgrade was a true design-build project of collaboration with Woodard & Curran and Apex of approximately \$2M. Apex worked closely with W&C and UNE to develop cost efficient construction documents with materials and systems to keep WWTF upgrade costs down without diminishing the high quality finished product.

Meredith, NH – RT 3 Pump Station

Apex teamed with Brown & Caldwell for the design and construction of the RT 3 pump station for the Town of Meredith, NH. Work included structural, architectural, process, electrical, and controls upgrades in the amount of approximately \$625,000. Work was completed on time and under budget with great satisfaction to the Owner and other parties involved.

Wakefield, NH – Septic Pump Station and Collection System Pump Stations

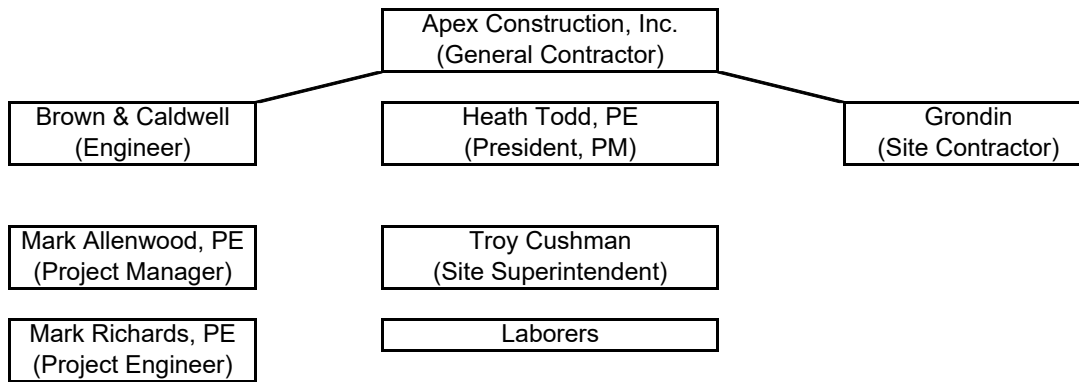
Apex is currently involved in a design build project with the town of Wakefield, NH for the replacement of 2 collection system pump stations after a previously completed septic disposal system pump station upgrade under the same format. Apex hired Brown & Caldwell to perform 90% design and permitting with collaboration from Apex to value engineer affordable and effective, fast-track solution to failing pump stations.

Rochester, NH Biosolids Dewatering Facility and Carbon Building

Apex is in collaboration with Brown & Caldwell and the City of Rochester to undertake an alternate and unique “cost goal” format project in Rochester, NH. After the City elected to dismiss the low-bidder GC for the design-bid-build project fraught with conflict, Apex was picked by the City of Rochester to work toward completion of the project on a T&M/ “cost goal” basis in the amount of approximately \$5.3M. The cost goal format establishes a contract price with incentives to collaborate and reduce construction cost through alternate methods and materials, while allowing flexibility in a scope of work that is difficult to define in a lump sum. This format demonstrates the effective working relationship and trust between the parties and the reputation of Apex to perform quality work as efficiently and quickly as practicable in a team environment.

Please refer to further qualifications information contained in the following pages and reach out if you would like more detail to support selection of the Apex, Brown & Caldwell, and Grondin team as the design-build contractor for this important project.

FMI and West Cole Rd. PS FM - Organizational Chart



Apex Construction Inc. Work on Hand
April 2024

Prj #	Project	Contract Amount	Balance to Complete	114605 Anticipated Completion	
2201	WWTF & Pump Stations Bridgton, ME	IHVH949439 NR 1/31/24	11,513,908	308,939	June 2024
2207	Biosolids Dewatering Facility Rochester, NH		4,782,014	172,163	December 2023
2209	Pump Station Upgrades Wakefield, NH		462,250	317,750	August 2024
2210	Gardiner St Pump Station Patten, ME	IHVJ432142 EXP 5/8/24	233,949	500	January 2024
2211	WWTF & Collection System Upgrades Searsport, ME	IHVJ369808 EXP 5/1/25	11,353,785	3,598,981	October 2024
2212	Wastewater Pump Station Upgrades Kennebunkport, ME	IHVJ306316 EXP 10/1/24	4,799,617	1,582,637	December 2024
2213	Technology Drive Booster PS Durham, NH		1,168,000	121,793	April 2024
2214	Tara Estates Rochester, NH	IHVJ304645 EXP 5/1/24	1,392,029	3,550	January 2024
2215	Mariner PS Upgrade Brunswick, ME		992,145	4,392	March 2024
2301	Booster PS Caribou, ME	IHVJ620725 EXP 9/11/24	779,873	9,000	January 2024
2302	Booster PS Rumford, ME	IHVJ397120 EXP 6/1/24	412,507	0	February 2024
2305	Backkingdon Reservoir Mexico, ME	IHVJ495962 EXP 7/17/24	1,448,200	-6,000	February 2024
2306	Harlow Hill BPS Mexico, ME	IHVJ496033 EXP 8/7/24	549,500	15,800	February 2024
2307	Anson Madison Water District Emden, ME	IHVJ434488 EXP 8/1/24	137,284	2,500	February 2024
2308	Sewer Pump Station Upgrade Jackman, ME		275,000	5,500	May 2024
2310	UV System Upgrade Dover, NH	IHVJ664630 EXP 3/7/25	398,020	160,763	August 2024
2311	Aeration Upgrade Dover, NH	IHVJ664621 EXP 3/7/25	288,800	43,533	August 2024
2312	WWTP Upgrade Southwest Harbor, ME	IHVJ661795 EXP 4/1/25	25,032,924	23,334,992	March 2026
2313	Water Treatment Plant Berwick, ME	IHVJ691283 EXP 4/15/24	450,265	340,929	November 2024
2401	Melcher Court PS Westbrook, ME	IHVJ685303 EXP 10/1/25	1,836,000.00	1,628,050	June 2025
2402	WWTP Major Components Rehab & Replacement Durham, NH		1,592,400	1,451,720	December 2025
2404	WWTF & PS Upgrade Old Orchard Beach, ME		18,497,025	18,497,025	September 2026
2405	High St PS Upgrade Ellsworth, ME		1,534,100	1,534,100	July 2025
Totals		100,582,385	53,128,617		

SCHEDULE B
APEX CONSTRUCTION INC. PROJECTS COMPLETED IN LAST 5 YEARS

Project	Contract Amount	Completion Date
<u>Wastewater Treatment Facility Upgrade</u> Exeter NH Owner: Town of Exeter 10 Front Street Exeter NH 03833 Engineer: Wright-Pierce Portland ME	\$36,865,322	August 2020
<u>Wastewater Treatment Facility Grit System Upgrade</u> Durham NH Owner: Town of Durham Public Works 100 Stone Quarry Drive Durham NH 03824 Engineer: Wright-Pierce Portland ME	\$817,245	August 2020
<u>Pump Station Upgrades</u> Madawaska ME Owner: Town of Madawaska 328 St. Thomas St. Suite 101 Madawaska ME 04756 Engineer: Woodard & Curran Portland ME	\$800,000	June 2020
<u>Water Pollution Control Facility Phase 1 Upgrade</u> Bath ME Owner: City of Bath 55 Front Street Bath ME Engineer: Wright-Pierce Topsham ME	\$5,368,032	December 2019
<u>Wastewater Treatment Plant Upgrade</u> Winter Harbor ME Owner: Winter Harbor Utilities District PO Box 141 Winter Harbor ME 04693 Engineer: Woodard & Curran Portland ME	\$4,395,729	October 2019
<u>Dewatering System Upgrade</u> Yarmouth ME Owner: Town of Yarmouth 200 Main Street Yarmouth ME 04096 Engineer: Wright-Pierce Portland ME	\$1,163,544	September 2019
<u>Route 202 Booster Station Capacity Increase</u> Hampden ME Owner: Hampden Water District PO Box 218 Hampden ME 04444-0218 Engineer: Woodard & Curran Bangor ME	\$520,467	December 2018
<u>Kings Highway & Main Street Pump Stations Upgrades</u> Eliot ME Owner: Town of Eliot 1333 State Road Eliot ME 03903 Engineer: Underwood Engineers Concord NH	\$1,403,505	September 2018
<u>Wards Hill Pump Station Upgrade</u> Gorham ME Owner: Portland Water District 225 Douglass Street PO Box 3553 Portland ME 04104-3553 Engineer: Wright-Pierce Portland ME	\$1,549,923	August 2018
<u>Junction Road Water Pump Station & Water Treatment Plant Upgrade</u> South Berwick ME Owner: South Berwick Water District 80 Berwick Road South Berwick ME 03908 Engineer: Wright-Pierce Topsham ME	\$406,318	July 2018
<u>Trunkline Pump Station No. 3 Upgrade</u> Winthrop ME Owner: Greater Augusta Utility District 12 Williams Street Augusta ME 04330 Engineer: Wright-Pierce Topsham ME	\$1,205,700	June 2018
<u>Blackwater Road Pumping Station Improvements</u> Somersworth NH Owner: City of Somersworth 1 Government Way Somersworth NH 03878 Engineer: Underwood Engineers Portsmouth NH	\$508,360	May 2018

SCHEDULE B
APEX CONSTRUCTION INC. PROJECTS COMPLETED IN LAST 5 YEARS

Project	Contract Amount	Completion Date
<u>Wastewater Treatment Facility Optimization Improvements</u>	\$330,613	March 2018
Berwick ME Owner: Berwick Sewer District PO Box 15 Berwick ME 03901-0015 Engineer: Underwood Engineers Portsmouth NH		
<u>Wastewater Treatment & Pumping stations Upgrade Project</u>	\$1,073,514	February 2018
Brownville ME Owner: Town of Brownville 586 Main Road Brownville ME 04414 Engineer: Dirigo Engineering Fairfield, ME		
<u>Wastewater Treatment Facility Upgrade</u>	\$11,422,690	November 2017
Newmarket NH Owner: Town of Newmarket 186 Main Street Newmarket NH 03857 Engineer: Wright-Pierce Portsmouth NH		
<u>Wastewater Treatment Process Upgrade</u>	\$11,980,300	November 2017
Bucksport ME Owner: Town of Bucksport PO Box X Bucksport ME 04416 Engineer: Olver Associates Winterport ME		
<u>Wastewater Treatment Facility Disinfection System Upgrade</u>	\$677,130	November 2017
York ME Owner: York Sewer District PO Box 1039 York Beach ME 03910 Engineer: Brown & Caldwell Andover MA		
<u>Mill Creek Pump Station</u>	\$2,797,446	October 2017
Falmouth ME Owner: Town of Falmouth 271 Falmouth Road Falmouth ME 04105-2005 Engineer: Wright-Pierce Topsham ME		
<u>Pollution Control Facility/Treatment System Upgrade</u>	\$333,901	September 2017
North Haven ME Owner: Town of North Haven PO Drawer 400 North Haven ME 04853 Engineer: Olver Associates Winterport ME		
<u>Pump Station No. 1 Upgrade</u>	\$779,714	November 2016
Ogunquit ME Owner: Ogunquit Sewer District PO Box 934 Ogunquit ME 03907-0934 Engineer: Wright-Pierce Portland ME		
<u>Water Treatment Plant Upgrade-Phase 3</u>	\$959,100	November 2016
Limestone ME Owner: Loring Development Authority 154 Development Drive, Suite F Limestone ME 04750 Engineer: Woodard & Curran Bangor ME		
<u>Water Filtration Plant Upgrades</u>	\$1,927,374	September 2016
Rochester NH Owner: City of Rochester 31 Wakefield Street Rochester NH 03867 Engineer: Wright-Pierce Portsmouth NH		
<u>Aeration Upgrade Project</u>	\$1,497,662	June 2016
North Conway NH Owner: North Conway Water Precinct PO Box 630 North Conway NH 03860 Engineer: CDM Smith Manchester NH		
<u>Water Treatment Plant Corrosion Control Improvements</u>	\$447,788	June 2016
Ashland ME Owner: Ashland Water & Sewer District PO Box 340 Ashland ME 04732-0340 Engineer: James W. Sewall Company Caribou ME		

SCHEDULE B
APEX CONSTRUCTION INC. PROJECTS COMPLETED IN LAST 5 YEARS

Project	Contract Amount	Completion Date
<u>WWTF Upgrade Phase 1 and MLE Conversion</u>	\$8,694,442	May 2016
Dover NH Owner: City of Dover 288 Central Ave Dover NH 03820 Engineer: Wright-Pierce Portsmouth NH		
<u>WWTF Aeration, Electrical and Instrumentation Improvements</u>	\$220,654	May 2016
Damariscotta ME Owner: Great Salt Bay Sanitary District PO Box 23 Damariscotta ME 04543 Engineer: Tata & Howard Portland ME		
<u>Granite Ridge Development District Water Improvements Project Booster Pump Station</u>	\$420,449	April 2016
Sub to: Severino Trucking Co. Inc. PO Box 202 Candia NH 03034		
<u>Pump Stations Upgrades Project</u>	\$406,640	April 2016
Wiscasset ME Owner: Town of Wiscasset 51 Bath Road Wiscasset ME 04578 Engineer: Dirigo Engineering Fairfield, ME		
<u>Bernier Road Wells Pump Station Contract No. 2</u>	\$1,199,033	March 2016
Sanford ME Owner: Sanford Water District PO Box 650 Sanford ME 04073 Engineer: Wright-Pierce Topsham ME		
<u>Lary Lane Groundwater Treatment Plant</u>	\$4,370,945	March 2016
Exeter NH Owner: Town of Exeter 10 Front Street Exeter NH 03833 Engineer: Weston & Sampson Portsmouth NH		
<u>Chlorination/Dechlorination Upgrade</u>	\$700,607	December 2015
Durham NH Owner: Town of Durham 8 Newmarket Road Durham NH 03824 Engineer: Underwood Engineers Concord NH		
<u>Sea St. & Mt. Battie Pump Station Upgrades</u>	\$548,699	December 2015
Camden ME Owner: Town of Camden PO Box 1207 Camden ME 04843 Engineer: Wright-Pierce Topsham ME		
<u>Clearwater Pump Station and Force Main Improvements</u>	\$357,541	December 2015
Laconia NH Owner: City of Laconia 45 Beacon Street East Laconia NH 03246 Engineer: Fluet Engineering Associates Laconia NH		
<u>Wastewater System Improvements Phase 1 Pump Stations Upgrade</u>	\$475,064	November 2015
Kingfield ME Owner: Town of Kingfield 38 School Street Kingfield ME 04947 Engineer: Main-Land Development Consultants Inc. Livermore Falls ME		
<u>State Street Pump Station Upgrade</u>	\$99,720	November 2015
Presque Isle ME Owner: Presque Isle Utilities District PO Drawer 470 Presque Isle ME 04769 Engineer: Woodard & Curran Bangor ME		

Heath J. Todd, P.E. (ME)
402 Webber Hill Rd.
Kennebunk ME 04043

Licensed Professional Engineer
State of Maine #11177

EDUCATION: B.S. Civil Engineering, University of New Hampshire – 2002

EXPERIENCE:

Apex Construction Inc. 2005 – present
Weston & Sampson Engineers, Inc. 2002 - 2005

President

Responsible for cost estimation, purchase and coordination of materials and subcontractors, project administration and management on all levels.
Projects include, but are not limited to:

Bridgton WWTF and Pump Stations Bridgton, ME	\$11,451,395
Presque Isle WWTF Upgrade Presque Isle, ME	\$10,432,274
Camden WWTF Upgrade Camden, ME	\$9,711,421
Somersworth WWTF Upgrade Somersworth, NH	\$11,146,971
Exeter WWTF Upgrade Exeter, NH	\$37,158,515
Bath WPCF Upgrade Bath, ME	\$5,490,595
Newmarket WWTF Upgrade Newmarket, NH	\$11,577,062
Durham WWTF Grit System Upgrade Durham, NH	\$817,244
River Street Pump Station Upgrade Rochester, NH	\$1,269,952
Littlejohn Pump Station Upgrade Portland Water District Cape Elizabeth, ME	\$605,576

WWTF Upgrade Phase 1 and MLE Conversion Dover NH	\$8,694,442
Bernier Road Wells Pump Station Sanford ME	\$1,199,033
Lary Lane Groundwater Treatment Plant Exeter NH	\$4,370,945
Water Filtration Plant Upgrades Rochester NH	\$1,927,374
WWTF Phase 2 Upgrade Berlin NH	\$14,090,032
Phase II WWTF Upgrade Farmington NH	\$7,062,354
Main Pump Station Project Phase 6 Oakland ME	\$1,750,585
Wastewater Treatment Plant Phase II Upgrades South Paris ME	\$6,311,467
Water & Wastewater Infrastructure Improvements Fort Kent ME	\$1,753,504
Peak Flow Upgrade-Pollution Control Facility Belfast ME	\$1,448,158
Mirror Lake Water Treatment Facility Rockport ME	\$4,055,933
Water Treatment Facility Upgrade Newport ME	\$1,647,486
Wastewater Treatment Facility Upgrade Phase 3 Hampton NH	\$1,135,230
Wastewater Treatment Facility Upgrade Castine ME	\$3,044,645
Orono Wastewater Treatment Process Upgrade Orono ME	\$8,330,300
Falmouth Wastewater Treatment Facility Upgrade	\$6,962,200

Falmouth ME

Craig Brook National Fish Hatchery WWTF Upgrade East Orland ME	\$2,969,450
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Craig Brook National Fish Hatchery Broodstock Building East Orland ME	\$1,892,650
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Moody Road Water Treatment Plant Lisbon ME	\$2,153,558
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Kennebunk Wastewater Treatment Facility Upgrade Kennebunk ME	\$5,580,091
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Consultant Engineer Experience

Middlesex School WWTF, Concord, MA: December 2003 – July 2005

Engineer involved in the design, permitting, and construction inspection of a 60,000 gallon per day (gpd) wastewater treatment facility for The Middlesex School in Concord, Massachusetts. The project included the design of a new membrane filtration wastewater treatment facility (MBR) within the existing WWTF structure while maintaining treatment of flows throughout the construction duration. Performed part time resident inspection during construction of upgrade and performed construction administration for all phases of project.

Southbridge, MA WWTF: April 2002 – July 2005

Engineer involved in the design of upgrades to the Southbridge, Massachusetts 13.3 million gallons per day (mgd) wastewater treatment facility. Specific responsibilities included the design of septage receiving system, waste sludge and return sludge pumping system, lime mix system, hydraulic analysis, and coordination of structural and HVAC components.

York, ME Sewer District: April 2002 – June 2005

Engineer responsible for the design and construction administration of approximately 20,000-feet of gravity and pressure sewers for the York, Maine Sewer District. Project included sewer feasibility studies and design through preliminary to final design phases. In addition, Mr. Todd was involved in extensive coordination with state, town and district officials for sewer installation and design, road and storm water improvements, and SRF funding issues.

City of Rochester, NH: April 2004 – June 2005

Engineer responsible for design of wastewater pumping station improvements including pump system replacement, headworks, site, and architectural improvements. During construction phase, Mr. Todd managed project scheduling, equipment delivery, subcontractor retention, and wastewater bypass operation as an employee of the General Contractor.

City of Gloucester, MA – January 2004 – June 2004

Engineer responsible for the design and permitting of approximately 6,250-feet of gravity sewer replacement on state highways in tidal sensitive areas of Gloucester, Massachusetts. Project required coordination of pipe bursting replacement techniques and asbestos cement pipe removal considerations.

Anna Maria College, Paxton MA: July 2002 – July 2005

Engineer responsible for the planning, survey, design and property investigation for over 12,800-feet of force main through City of Worcester property in Holden and Paxton, Massachusetts for Anna Maria College, Paxton, MA. Project included design of dual wall force main and pump station, complete with leak detection and telemetry system for installation in a water supply sensitive area.

Brockton, MA WWTF: November 2003 - June 2005

Engineer involved in Brockton, Massachusetts Wastewater Treatment Facility upgrades. Performed evaluation of existing return sludge pumping system and design of replacement system. Evaluation and design included alternatives to provide energy saving and operational benefits. Evaluated waste sludge pumping, conveyance and lime dosing system in combination with existing and future thickening and dewatering processes.

Town of Kittery, ME: February 2002 – February 2003

Engineer involved in the design of a 3,800 linear foot sewer project in Kittery, Maine. The project involved the design of sewer to replace a section of undersized asbestos cement sewer main.

Village at Duxbury, Duxbury, MA: February 2003 – June 2003

Engineer involved in designing Wastewater Treatment facility upgrades in a study of the Village at Duxbury retirement community in Duxbury, Massachusetts. Rotating Biological Contactor (RBC) upgrades included process flow alterations and flow equalization among differently sized RBC units.

Troy Cushman
4 Derrick Drive
Limington, ME 04049

Education

Bonny Eagle High School, Standish, ME

Experience

Responsible for managing all field activities and coordination.
Projects included but not limited to:

Field Superintendent

- | | |
|---|-------------|
| • Sludge Dewatering System Upgrade
Yarmouth ME | \$1,109,000 |
| • Route 202 Booster Station Capacity Increase
Hampden ME | \$520,467 |
| • WWTF Grit System Upgrade
Durham NH | \$817,245 |
| • MacGregor Cut Apartments Pump Station
Londonderry, NH | \$372,200 |
| • WWTF Gate and Actuator Replacement
Rochester, NH | \$26,900 |
| • Richards Pump Station
York, ME | \$409,180 |
| • WWWTf Disinfection System Upgrade
York, ME | \$677,130 |
| • Franklin St. Pump Station
Rochester, NH | \$671,387 |
| • Pump Station Upgrade
Ogunquit, ME | \$779,214 |
| • Pump Station Upgrade
Meredith, NH | \$624,651 |
| • Bernier Road Pump Station
Sanford, ME | \$1,190,132 |
| • Granite Ridge Pump Station
Rochester, NH | \$420,449 |

- Water Treatment Plant Upgrade
Rochester, NH \$1,927,374
- Wastewater Treatment Facility Dewatering Upgrade
Freeport, ME \$60,173

Assistant Superintendent

- Chlorination/Dechlorination Upgrade
Durham, NH \$700,607
- Pump Station and Wastewater Treatment Facility Upgrade
Scarborough, ME \$4,327,465
- Wastewater Treatment Facility Upgrade
Falmouth, ME \$6,950,551
- Wastewater Treatment Facility Upgrade
South Paris, ME \$6,284,000
- Wastewater Treatment Facility Phase 2 Upgrade
Berlin, NH \$14,090,032
Biddeford, ME

Mark Allenwood, P.E.

Project Manager

Mark Allenwood has been working with municipalities, institutions, and private companies across New England to provide innovative solutions to wastewater treatment issues for over 37 years.

His project experience includes overseeing the study, design, and construction management of wastewater treatment and collection systems. Mr. Allenwood has provided key project management and lead technical expert services for numerous wastewater projects throughout new England. Mr. Allenwood's experience includes project management of the \$21M greenfield MBR treatment facility in Windham, ME, a new \$14M biosolids dewatering facility in Rochester, NH and a \$10M improvement program to upgrade the wastewater treatment facility (WWTF) in the Town of Maynard, MA. His experience also includes the design of wastewater treatment facility upgrades in Rochester, New Hampshire; York, Ogunquit, Bar Harbor, Boothbay Harbor, Bethel and Kennebunk, Maine.

On-Call Wastewater Services, City of Rochester, Rochester, NH

Contract Manager, Project Manager. Mr. Allenwood has provided project management services for numerous wastewater treatment projects for the City of Rochester, NH, including a new biosolids dewatering facility, new carbon storage and feed facility, secondary clarifier upgrades, UV disinfection system upgrades, aeration system upgrades, blower upgrades and process automation upgrades. Additionally, Mr. Allenwood has help guide the City of Rochester through its NPDES permit renewal process. The NPDES permit expired in 2002 and was finally renewed by EPA in 2024.

Responsible for leading service to Rochester under two repeat wastewater engineering services contracts. (2019-Present)

National Pollution Discharge Elimination System Permit Negotiations, City of Rochester, Rochester, NH

Project Manager. Faced with more stringent nutrient limits, the City is advocating for reasonable nutrient permit limits. Once these limits are set, the City will move forward with an upgrade to its 5 mgd advanced WWTF. Also responsible for the project management and design oversight of the headworks upgrade design and blower replacement designs for the 5 mgd tertiary treatment facility. The project showed excellent results in the reduction of phosphorus, organic solids, a reduction in effluent color and a dramatic increase in effluent ultra violet light transmittance.

Responsible for the project management of the NPDES discharge permit negotiations with the EPA and the New Hampshire Department of Environmental Services. Oversaw

ASSIGNMENT

FMI Pump Station

EDUCATION

BS, Civil Engineering, University of Maine, 1987

REGISTRATION

Engineer, No. 27881, CT;
Engineer (Civil), No. 7142, ME;
Engineer (Sanitary), No. 42736, MA; Engineer (Civil), No. 13147, NH

YEARS OF EXPERIENCE

38

JOINED FIRM

2008

RELEVANT EXPERIENCE

- Wastewater Treatment
- Collection Systems Design
- Membrane Biological Reactors
- Nutrient Removal

pilot testing for the CoMag® ballasted settling tertiary treatment process. (2009 - Present)

Route 11 Pump Station Upgrade, City of Rochester, Rochester, New Hampshire

Project Manager. Upgrade to an existing pump station constructed in the early 1980s. Transforming a wetpit/drypit pump station into a submersible pump station while reutilizing the wetwell. Constructing a new building to accommodate a standby power generator and controls. Implementing new electrical, instrumentation, and site work.

Project manager for both design and construction phase services. (2020-2023)

River Street Pump Station, City of Rochester, Rochester, New Hampshire

Project Manager / RPR. The River Street pump station was constructed in the early 1980's as a wetpit / drypit pump station with subterranean wetwell. The project included the design of a new self-priming pump station with pumps at grade, a new building to house the new pumps and new standby power generator, wetwell modifications, electrical and instrumentation upgrades. Following the design, the project was bid and constructed with BC providing construction phase services including construction oversight, shop drawing reviews and regulatory compliance.

Mr. Allenwood served as the project manager for both the design and construction phase of the project. During construction, Mr. Allenwood also served as the resident project representative due to the Covid-19 pandemic. (2019-2021)

Route 125 Pump Station Design, City of Rochester, Rochester, NH

Project Manager / Design Lead. Design of a 1,000 gpm pump station retrofit in Rochester, New Hampshire to replace aged equipment. The design includes conversion of the pump station from a wet pit/dry pit to a submersible system, new controls and new standby power system.

Design leader and project manager for the design phase and project manager for the construction phase. (2015-2016)

Denitrification Pilot Study, City of Rochester, Rochester, NH

Project Manager, Technical Lead. As identified in the WWTF Evaluation Project, an alternative means of mixing the WWTF aeration basins is necessary to reduce dissolved oxygen levels and promote denitrification. The Evaluation Project also identified through BioWin modeling that simultaneous nitrification/denitrification could potentially meet an effluent total nitrogen limit of 8 mg/L. To confirm the modeling results, the city embarked on a one-year pilot study which commenced in August 2013. Early results show a 25 percent reduction in the WWTF power bill and a 30 percent reduction in total nitrogen.

Responsible for the project management and leading technical resources for the denitrification pilot study. (2013-2014)

Blower Replacement, City of Rochester, Rochester, NH

Project Manager, Technical Lead. It is estimated that the project will reduce power consumption and pay for itself in less than 5 years. The project was funded, in part, by a Public Utilities Commission (PUC) Green House Gas Reduction Grant prepared by Brown and Caldwell on behalf of the City of Rochester. The project was executed as a modified design-build project to meet the reduced time frame required by the PUC grant.

Responsible for the project design and management of the blower system replacement project, which includes removal of two existing 200 horsepower positive displacement blowers and replacing them with two 200 horsepower single stage centrifugal blowers. (2011-2012)

Headworks Upgrade, City of Rochester, Rochester, NH

Project Manager, Technical Lead. The client assigned Brown and Caldwell to this project after another consultant completed the 60 percent design. The evaluation of the other consultant's design led to numerous design changes, which reduced the overall project cost by approximately 25 percent, allowing the City to stretch its funding allocation further and expand the scope of the project to make additional building improvements.

Responsible for the project management of the headworks upgrade, which includes replacement of the aging mechanical bar screen with a new modern unit, installation of a screenings screw wash-press and bagging system, instrumentation upgrades and building system repairs. (2009-2012)

Replacement and Refurbishment of Treatment Equipment, Main WPCF, Metropolitan District Commission, Hartford, CT

Project Manager. Replace aged equipment at Hartford's Main WPCF including primary sludge pumps, spray water pumps, sludge feed pumps and polymer makeup system.

Responsible for the project management and design oversight of equipment replacement projects, including the primary sludge pumps and refurbishment of the polymer makeup system. (2010-2012)

Grit Removal System Upgrade, City of Manchester, Manchester, NH

Project Manager. The grit system is designed to treat up to 80 mgd during wet weather.

Responsible for the project management of the grit system upgrade, which includes new aeration systems and revised baffling of the grit tanks. (2010-2012)

Dewatering System, Boothbay Harbor Sewer District, Boothbay Harbor, ME

Project Manager, Lead Designer. This project included pilot testing dewatering technologies, financial evaluation of system replacement, assistance with negotiating the direct purchase of the centrifuge, and the design of the new centrifuge system.

Responsible for the project management, design and construction administration of the dewatering system upgrade to replace the aging belt filter press. (2008-2009)

Heritage Village Design Review, State of CT, New Haven County, CT

Project Manager, Technical Coordinator. The WWTF permit required that the facility meet an effluent total nitrogen limit of 3.0 mg/L. The design review included peer review of the BioWin modeling efforts by Weston & Sampson, recommendations for model modifications, and analysis of pre and post-anoxic zones for denitrification.

Responsible for the project management and coordination of technical resources for the design review of a private WWTF which also services State of Connecticut facilities. (2008-2010)

Wastewater Treatment Facility Master Plan, City of Portsmouth, Portsmouth, NH

Project Manager, Technical Lead. The Plan includes an evaluation of the existing treatment facility site, an evaluation of other potential sites for a new 6 mgd treatment facility, and the ability to create a regional biosolids and septage processing facility. The plan also includes an update to the City's combined sewer overflow (CSO) long-term control plan (LTCP).

Responsible for the project management of the City's WWTF Master Plan. (2008-2012)

Wastewater Treatment Facility Upgrade, Town of Maynard, Maynard, MA

Technical Coordinator, Subconsultant Liaison. The upgrade includes a new ballasted settling process to reduce effluent phosphorus to less than 0.10 mg/L, pumping system.

Responsible for coordinating technical resources within Brown and Caldwell and Weston & Sampson for the Town's 1.2 mgd WWTF upgrade. (2008-2011)

Front Street Pump Station Upgrade, Town of Rochester, Rochester, NH

Project Manager, Lead Designer. Design of a 1,500 gallon per minute triplex pump dry pit station upgrade in Rochester, New Hampshire. The project includes new pumps, new controls, wet well modifications, headworks modifications, a new generator, and building rehabilitation including new roofs and doors.

Project manager, lead designer (2005-2007)

Pump Station Telemetry System, Boothbay Harbor Sewer District, Boothbay Harbor, ME

Project Manager. Design-build of a 20-pump station telemetry system replacement in Boothbay Harbor, Maine.

Mr. Allenwood served as the project manager. (2005-2007)

Private School Wastewater Treatment Facility, Confidential Client, Concord, MA

Project Manager, Technical Reviewer. Design of a 60,000 gallon per day advanced wastewater treatment facility at a private secondary school. The facility discharges to sensitive receiving waters and therefore must meet National Pollutant Discharge Elimination System (NPDES) permit limits of less than 0.20 mg/l of phosphorus and less than 10 mg/l total nitrogen. The membrane biological reactor (MBR) process was selected due to the strict permit requirements and limited space availability. The project includes a new headworks, new aeration tanks, new membrane tanks, influent and effluent equalization tanks, new disinfection systems, chemical feed systems, new power, control and SCADA system and new laboratory.

Mr. Allenwood served as the project manager and lead technical reviewer. (2004-2008)

Pump Station Design, Town of Bethel, Bethel, ME

Project Manager / Lead Designer. Design of a 150 gpm pump station in Bethel, Maine to replace a pump station that would be removed due to the construction of a new bridge spanning the Androscoggin River. Due to scheduling requirements, the pump station was designed and bid in less than 15 days. The station was purchased directly by the Town and was installed by a local contractor.

Mr. Allenwood served as both project manager and lead designer for this project. (2002-2005)

Sewer System Extension, City of Gloucester, Gloucester, MA

Senior Engineer. Design of a sewer system extension in Gloucester, Massachusetts. This project includes over 20,000 feet of 8 to 24 inch gravity sewer, 5,000 feet of 4 and 12 inch force main, and 2,000 feet of pressure sewers. This project also includes four pump stations ranging in capacity from 125 gpm to 1,400 gpm.

Mr. Allenwood served as the lead pump station designer and provided startup services during construction. (2002-2006)

Forcemain Sewer and Pump Station, Anna Maria College, Paxton, MA

Project Manager, Lead Designer. Design of a 150 gpm pump station and 15,000 feet of cross country forcemain to provide sewer service to Anna Maria College in Paxton, Massachusetts. The forcemain route passes through the watershed of the Pine Hill Reservoir system, which provides drinking water to the City of Worcester and surrounding towns. Project highlights include solar powered leak detection systems along the forcemain route, redundant flow monitoring and the specification of special construction requirements to limit the impact of construction on the watershed.

Mr. Allenwood served as both project manager and lead designer for the project. (2001-2006)

Sewer System Improvements, York Sewer District, York, ME

Project Manager. Design of numerous sewer system improvements in York, Maine. The projects include the design of a triplex pump station upgrade for the York Sewer District's main 4,000 gpm pump station; the design and evaluation of several submersible pump stations; over 20,000 feet of collection sewers; and a new diffuser on the ocean outfall.

Mr. Allenwood served as the project manager for all York Sewer District projects. (2001-2008)

Wastewater Treatment Facility Upgrade, Town of Bethel, Bethel, ME

Senior Project Engineer. Design, construction administration, and start-up services for the upgrade to a 0.30 mgd WWTF. This project involved a new septage receiving facility, including a receiving and holding tank, headworks with screening and grit removal, oxidation ditch, related pumping systems, and a new SCADA system.

Mr. Allenwood served as the lead technical designer and design manager. (1996-1999)

Wastewater Treatment Facility Upgrade, Town of Bar Harbor, Bar Harbor, ME

Senior Project Engineer. Design, construction administration, and start-up services for the upgrade to a 2.0 mgd wastewater treatment facility in Bar Harbor, Maine. This project included a new headworks, six new aeration tanks and related aeration system, two new secondary clarifiers, a new disinfection system, a new septage receiving and holding system, a new sludge dewatering system, and related pumping and control systems. This project also includes the

design of a SCADA system to control the treatment process. facility. The plan also includes an update to the City's combined sewer overflow (CSO) long-term control plan (LTCP).

Lead technical designer (1995-1998)

Publications

Mark Allenwood, *15,000 Foot Private Sewer Connection through Public Water Supply Watershed*, NEWEA's Winter Conference, 2006, Presentation

Mark Allenwood, *Application of a Membrane Biological Reactor at a Private School*, NEWEA Specialty Conference, 2005

Mark Allenwood, *Fast Track Pump Station Implementation*, Maine Wastewater Control Association Conference, 2007

Experience Summary

Mark has 25 years of experience focused on pump station and wastewater treatment plant design, including condition assessment, hydraulic modeling and analysis, testing, detailed design, project management, and construction and operations services.

Assignment

FMI Pump Station

Education

*M.S., Environmental Engineering,
University of Colorado, 1998*

*B.S., Civil Engineering and
Management, University of
Vermont, 1992*

Registration

*Professional Engineer (Civil),
Massachusetts, No. 50435*

*Professional Engineer, New York,
No. 94233*

*Professional Engineer,
Connecticut, No. 29661*

*Professional Engineer, Colorado,
No. 38149*

Experience

25 years

Joined Firm

1998

Relevant Expertise

*Wastewater treatment plant
design and modeling*

Pump systems design

Hydraulic modeling

Water quality modeling

*Water quality data collection and
analysis*

*NPDES permitting and regulatory
compliance*

Congress and Garrison Street Pump Stations Design, Portland Water District, Portland Maine Project Manager. Project includes design of two (2) 100 gpm duplex submersible pump stations for the District. Work includes retrofitting existing ejector type stations with new pumps, valves, piping, standby generator connection, electrical, and instrumentation. Bypass pumping was a key part of the construction sequencing. Existing wetwells were reused at each station to reduce costs.

Manchester Drive Pump Station Design, Portland Water District, Portland Maine Process Mechanical Lead. Project includes design of a new 300 gpm duplex submersible pump stations. Work includes retrofitting existing ejector type stations with new pumps, valves, piping, electrical, and instrumentation. Bypass pumping was a key part of the construction sequencing.

Lobster Cove Pump Station Design, York Sewer District, York Maine Project Manager. Project includes design of a 300 gpm pump station for the District. Work includes retrofitting existing dry pit type stations with new submersible pumps, valves, piping, permanent backup generator electrical, and instrumentation. Bypass pumping was a key part of the construction sequencing. Existing wetwell was reused to reduce costs.

Canal Winchester WWTP Headworks, Canal Winchester Sewer District , Canal Winchester Ohio. Process Mechanical Lead. Project includes design of a **12 mgd replacement headworks**. Work includes new mechanical bar screens, screens washer compactors, submersible main sewage pumps (5), trench type self cleaning wetwell, monorail systems, electrical, hydraulics, HVAC and Plumbing..

Pump Station Evaluation, Town of Meredith, New Hampshire Project Manager. Project includes evaluation 2 mgd pump station and design and Construction Management for replacement of main sewage pumps at the Town's main pump station. Project includes new pumps, electrical, HVAV, flow metering, and instrumentation.

Leachate Pumps Station, Covanta, Haverhill Energy, Massachusetts Project Engineer. Reviewed possible alternatives for submersible pumps in a leachate collection manhole. Alternatives included progressive cavity, diaphragm pump, self-priming centrifugal.

Pipeline and Pump Station, Central Landfill Rhode Island Resource Recovery Corporation, Town of Johnston, Rhode Island

Project Engineer. Designed 3-mgd self priming lift station for sanitary and landfill collection system. Also performed hydraulic review and designed modifications to convert 1-mgd multi-station lift station to single stage operation. These modifications allowed for future re-routing of the collection system and increased flows from a future landfill pre-treatment plant.

Braintree Weymouth Pump Station Evaluation, Massachusetts Water Resource Authority, Massachusetts

Task Manager. As part of an on-call task order assignment for the MWRA, the Braintree Weymouth Pump Station evaluation reviewed and provided recommendations to address recent performance issues associated with pump clogging. The pump station has had two significant upsets since its commissioning including one recently that led to a sanitary sewer overflow. The evaluation performed a detailed review of the clogging problems and recommended what physical and operational modifications can be made to improve the operation and reliability of the facility.

Pump Station Evaluation, Boston Water and Sewer Commission, Massachusetts

Project Manager. Project includes evaluation of 10 BWSC pump stations, including Union Park, which is a dry and wet weather pump station. Based on a combination historical operational data review, field vibration and flow monitoring, and detailed condition assessment for mechanical, electrical, instrumentations, and structural components, the project will produce a prioritization list of improvements, including recommended schedule and costs. This detailed condition assessment will provide confidence to BWSC that the future expenditures are cost effective, addressing their highest priorities.

HVAC Replacement Trilling Way Pump Station, Boston Water and Sewer Commission, Massachusetts

Project Manager. Design and Construction Management for replacement of HVAC equipment including odor control for 12 mgd Pump Station.

Port Richmond WRRF Main Sewage Pump Replacement, DEP, New York, New York

Design Manager. Led replacement of 50-year-old, 130 mgd main sewage influent pumps and 42" suction header improvements. Mark and the team's design will maintain reliable and safe operation for up to 30 years. Mark also helped identify alternatives to bring systems into compliance with NFPA 820 and local building codes.

Rockaway WRRF Main Sewage Pump Replacement Basis of Design, DEP, New York, New York

Process Mechanical Lead. Led replacement of 50-year-old, 90 mgd main sewage influent pumps and 48" force main header improvements.

Sauquoit Creek Pump Station and Force main, Oneida County, Utica New York

Project Engineer. Engineering Services During Construction (ESDC) for upgrades to 38 mgd combined sewer pump station. Project included replacement of 2 of the 4 pumps and 4 new VFDs, new screening building with multi-rake bar screens, washer compactors, conveyors. ESDC services includes shop drawing review, RFI responses, RFP, payment review, OM and SOP development, startup support, and site visits.

108th Street Pumping Station Rehabilitation, NYCDEP, New York

Design Lead. Design and permitting of upgrade of existing above-ground, combined 40 mgd wastewater pumping station in a commercial/residential area along Horace Harding Expwy, adjacent to a fire station. Project includes electrical and HVAC upgrades, odor control, and force main connection to a sewer line.

Clearview Pumping Station Rehabilitation, NYCDEP, New York

Lead Design Engineer. Design and permitting of upgrade of existing wastewater pumping station to replace failed station damaged by flooding. Project includes new above grade building, 4 new 4500 gpm submersible pumps, and new permanent standby power system built above the 500-year flood elevation for improved resiliency—all constructed on an existing 18,000 square foot site constrained by the Clearview Expressway exit ramp.

Little Neck, Park Drive East, and Linden Place Pumping Stations Rehabilitation, NYCDEP, New York

Lead Design Engineer. Design and permitting of upgrade of three existing wastewater pumping stations to replace failed stations at the end of their reliable life. Project includes new above grade buildings, dry pit and wet submersible pumps ranging from 2.5 mgd to 7.5 mgd, and new permanent standby power systems at two of the stations and a connection for a portable standby generator at the third. 500-year flood elevation improved resiliency improvements constructed for all three stations.

Denitrification Pump Station, Littleton Englewood Treatment Plant, Englewood Colorado

Task Manager /Project Engineer. As part of the upgrades to the Littleton Englewood Plant, designed 90 mgd pump station to lift a portion of plant flow to newly constructed denitrification filters. The pump station consisted of 4 22-mgd vertical turbine solids handling (VTSH) pumps.

Plant Water Pump Station, Littleton Englewood Treatment Plant, Englewood Colorado

Task Manager/Project Engineer. Designed 3- mgd plant water pump station to provide 125 psi flow to plant's non-potable water distribution system. The pump station consists of 3 variable speed vertical turbine pumps and chlorine injection system. Final effluent is pull from the chlorine contact basin and boosted to pressurize the plant's water system.

Secondary Pump Station Upgrades, City of Boulder 75th St. Wastewater treatment Plant, Boulder Colorado

Task Manager/Project Engineer. As part of the upgrades at the Boulder Wastewater Treatment Plant, designed 3- mgd plant water pump station to provide 125 psi flow to plant's non-potable water distribution system. The pump station consists of 3 variable speed vertical turbine pumps and chlorine injection system. The design included an alternative analysis between upgrades to the existing pump station and construction of a new pump station.

Unfinished Water Pump Station, Las Vegas Street WWTP, Colorado Springs, Colorado

Project Engineer. Lead designer on 1-mgd vertical turbine pump station to supply WWTP with plant reuse. Designed included two variable speed pumps and inline filter.

Eagle Park Reservoir Pump Station, Eagle Park Reservoir Company, Leadville Colorado

Project Engineer. Supported design and alternatives analysis for a 6 cfs vertical turbine pump station. The pump station diverts water from the Eagle River and pumps 3,000 feet to the Eagle Park Reservoir. During the design performed an analysis of different size pumps to determine optimal pump size based on hydrology. Design intake structure with 0.5 cfs by-pass for fish passage.

29th Street Pump Station, City of Loveland, Colorado

Project Engineer. Supported design for upgrades to an existing water pump station for the City's distribution system. The design included the replacement of 4 existing 50 HP horizontal split-case centrifugal water pumps with 100 HP pumps. In addition, the design included the installation of 3 other pumps for residential service and a fire flow pump. Three new flow meters were installed in the design. Work also included construction inspection, startup, and performance verification support.

Shop Creek Pump Station, City of Aurora, Colorado

Project Engineer. Supported design for 12-mgd lift station for the City's collection system. The design included vertically mounted non-clog centrifugal pumps with motors mounted on extended shafts. The design also included an odor control system and approximately 1,200 feet of 20-inch force main. Work also include startup and performance verification support.

Robertsdale Pump Station, City of Aurora, Colorado

Project Engineer. Supported design for 24-mgd lift booster station for the City's drinking water system. The design included vertical turbine -clog pumps. Work also included startup and performance verification support.

Collection System Upgrades, Baca Grande Water District, Crestone Colorado

Project Engineer. Designed two small submersible lift stations for the Districts collection system.

Factory Witness Testing, Various Locations

Project Engineer. Performed factory witness testing for verification of pump performance. The work included the following pumps and locations:

- 4-25 mgd VTSH Pumps, Fairbanks Morse, Kansas City, Kansas
- 3-8 mgd Vertical Turbine Pumps, Fairbanks Morse, Kansas City, Kansas
- 4-5 mgd End Suction Centrifugal, Goulds Pump, Seneca Falls, New York
- 4-20 mgd Vertical Non-Clog Pumps, Fairbanks Morse, Kansas City, Kansas
- 4-40 mgd Vertical Non-Clog Pumps, Fairbanks Morse, Kansas City, Kansas
- 4-4 mgd Vertical Non-Clog Pumps, Morris Pumps, Aurora, Illinois
- 4-6 mgd Vertical Non-Clog Pumps, Cornell Pump, Portland, Oregon
- 3 Rotating Drum Thickeners, Milwaukee, Wisconsin
- 66 and 72" Butterfly Valve Testing, New Hampshire and Allentown PA.
- 7-11.25 mgd wet pit submersible pumps, Flygt Xylem Pumps, Emma Boda Sweden.

Wastewater Treatment Design and Construction

On-Call Wastewater Services, City of Rochester, New Hampshire

Senior Engineer. Supporting various on-call assignments under two repeat master agreements. Participated in assignments including Siphon 16B flow monitoring and downstream interceptor hydraulic capacity, as well as a sludge dewatering facility design and liquid carbon storage system design.

Oakwood Beach WRRF Main Sewage Pumps and Headworks Upgrade, DEP, New York, New York

Design Manager. Rehabilitation of 40-year-old main sewage influent pumps, including the upgrade of capacity from 120 to 150 mgd and increase in redundancy for key equipment to N+1+1. Partnered with client staff to coordinate with WRRF operations and other capital projects (mechanical bar screens, grit separation, HVAC, and scum concentration). Project earned client Excellence in Prevention through Design (safety) award.

Wet Weather Treatment Upgrades, Oneida County, Utica NY

Project Engineer. Design for 110 mgd wet weather expansion including high rate wet weather disinfection (with hypochlorite and sodium bisulfate storage and feed). Design included extensive pilot and physical model studies to validate design criteria.

Wet Weather Treatment Upgrades, Metropolitan District Commission (MDC), Hartford, Connecticut

Design Manager. Managed design Engineering services during construction (ESDC) for 210 mgd wet weather expansion including Chemical Storage Facility (ferric chloride and emulsion polymer), dual use primary clarifiers chemical injection facilities, and high rate wet weather disinfection (with hypochlorite storage and feed). The design allows the 90 mgd secondary treatment plant to receive and treat wet weather flows up to 210 mgd with primary treatment and high rate disinfection. Design included extensive pilot and physical model studies to validate design criteria, allowing the design to minimize facility footprint, saving capital and

operations costs. ESDC services includes shop drawing review, RFI responses, RFP, payment review, OM and SOP development, startup support, and site visits.

Cryogenic Chiller Replacement Project, Massachusetts Water Resource Authority, Massachusetts Task Order Manager. Under the current on-call project, served as design lead and project manager for retrofit project including the replacement of the three packaged chillers plants that are part of the high purity oxygen system providing oxygen to the secondary process at the Deer Island Treatment Plant. The chillers serve to lower the temperature of the compressed ambient air prior to introduction into the cryogenic system. The current units have been maintenance intensive, requiring monthly contracted preventative maintenance. The design will reduce maintenance requirements, allow for a greater range of operation, and increase monitoring capabilities.

Odor Control Study, Massachusetts Water Resource Authority, Massachusetts Task Order Manager. Under the current on-call project, conducted odor control study for odor control systems at the Deer Island Treatment Plant.

Phase 2 Upgrades, Littleton Englewood Treatment Plant, Englewood, Colorado

Project Engineer. Supported design of WWTP expansion from 36 to 50 mgd. As part of the upgrades and expansions, supported design and document development for various process areas including headworks, trickling filters/solids contacts, primary and secondary clarifiers, dissolved air floatation thickeners (DAFTs), digester, and chlorine disinfection.

WAS Thickening, Northern Treatment Plant, Brighton, Colorado

Project Engineer. Lead designer on waste activated sludge thickening process for new plant. Process include rotating drum thickeners liquid polymer feed and mechanical diaphragm pump for thickened WAS pumping.

Treatment Plant Upgrades, City of Boulder Treatment Plant, Englewood, Colorado

Project Engineer. As part of the upgrades and expansion to the Boulder WWTP Plant, supported design and document development for various process areas including aeration basins, secondary clarifiers, and DAFTs.

Headworks and Digester Mixing Upgrades, Boulder 75th Street Wastewater Treatment Plant, Boulder, Colorado

Project Engineer. Acted as process area lead for the headworks upgrades which included new step screens, and replacement of grit and screening handling equipment. For the digester upgrades, supported digester mixing pump improvements.

Dry Polymer Feed System, Boulder 75th Street Wastewater Treatment Plant, Boulder, Colorado

Project Engineer. As part of the upgrades to the Boulder Plant, designed a dry polymer feed system for the DAFT at the 25 mgd treatment plant. The design included a “supersack” feed system, electric blower, mixer and feed tanks, polymer solution feed tanks and polymer dilution meter system.

Denitrification Filters, Littleton Englewood Treatment Plant, Englewood, Colorado

Project Engineer. As part of the upgrades to the Littleton Englewood Plant, designed a 90 mgd denitrification filter and methanol addition system to meet permit limits in the South Platte River.

Digester Mixing Study, City of Lincoln, Nebraska

Project Engineer. Performed analysis of historical digester performance and reviewed the potential improvements to volatile solids removal and gas production resulting from the addition of digester sludge mixing.

Nutrient Compliance Study, City of Boulder, Colorado

Project Manager. Project manager for study to evaluate nitrogen and phosphorus removal technologies for phased nutrient limit regulations. Technologies included options for both secondary and tertiary treatment upgrades. Study resulted in 20 year capital improvement plan development and planning level layouts for proposed treatment plant upgrades.

Chemical Feed Upgrades and Hydraulic, Clark County Central Plant, Las Vegas, Nevada

Project Engineer. Performed design for replaced of hypochlorite feed pumps and hydraulic review for plant capacity through disinfection. New chemical feed pumps included change from peristaltic type pumps to mechanical gear pumps.

Screenings Conveyance Study, Littleton Englewood WWTP, Englewood, Colorado

Project Engineer. Performed study to evaluate alternative technologies to convey headworks screening from bar screens to washer compactors. Alternatives reviewed included conveyors, sluiceways, various pumping systems, and vacuum conveyance.

Dewatering Equipment Replacement, York Sanitation District, York, Maine

Project Manager. Design and Engineering Services During Construction for new dewatering screen presses to replace gravity belt thickeners.

Robert W. Hite Treatment Facility, Metropolitan Wastewater Reclamation District, Denver, Colorado

Project Engineer. Served as a member of the District's Comprehensive Planning Group and District's Project Manager for PAR 1095 (Shelter-in-Place) and PAR 1106 (Hot Water Study). Primary responsibilities were to represent the District's interests to verify that PAR 1095 and PAR 1106 projects meet the intent of the project definitions and to serve as a coordinator between the District's engineering and operations staff and design consultants.

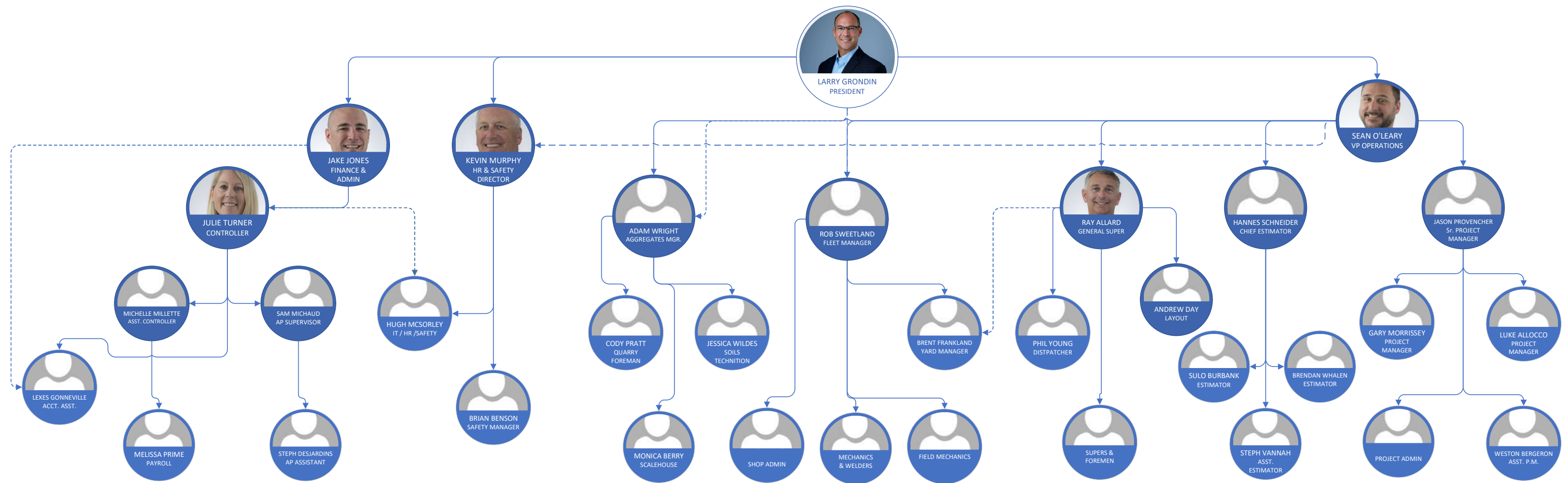
Grondin

R. J. Grondin & Sons
General Contractors
11 Bartlett Rd.
Gorham, ME., 04038
207-854-1147
Fax 854-4315

June 10, 2024

Below is a list of RJ Grondin & Son's recent significant pump station/force main projects:

General Contractor	Project Name	Location	Owner	Contract Total	Start Date	Completion Date
Wyman & Simpson, Inc.	MDOT/Little River Bridge, Gorham	Gorham, ME	MDOT	\$856,167	2020.01.07	2022
Maine Water Company	Lincoln, Market, Irving St	Saco, ME	Saco	\$2,885,782	2018.04.26	2020
RJ Grondin & Sons	Rt. 1 Sewer Extension Saco	Saco, ME	Saco	\$1,184,545	2019.03.05	2020
RJ Grondin & Sons	Route One Sewer Extension Phase 2	Saco, ME	Saco	\$1,063,238	2021.02.08	2022
RJ Grondin & Sons	Gorham Road Phase II	Scarborough, ME	Scarborough	\$3,565,143	2022.05.19	
Consigli Construction	2181 Portland Foreside Site Infrastructure	Portland, ME	Portland Foreside Development Corporation	\$3,091,906	2020.10.26	2022
RJ Grondin & Sons	Greenfield Place Subdivision, Westbrook	Westbrook, ME	Bramblewood LLC	\$795,000	2021.01.25	2022
RJ Grondin & Sons	Poland Spring Stormwater & Dockyard	Poland, ME	Blue Triton Brands	\$5,429,205	2022.04.29	2023



HANNES SCHNEIDER
Chief Estimator

WORK EXPERIENCE

R. J. GRONDIN & SONS, INC. Gorham, ME

2010 – Present Chief Estimator

Lead Estimator for multiple projects simultaneously ranging in size from \$500K to \$16M, including road reconstruction, site preparation, landfills, commercial, governmental, residential subdivisions, building, institutional, and utility installations. Selected projects include:

- National Guard Maintenance Facility 2022 - 2023
- Piper Shores Dorado Expansion 2021-2023
- Copart Facility Windham 2020-2022
- York County Judicial Center 2019 – 2021
- Scarborough Public Safety Building 2018 – 2020
- Colby College Athletic Complex 2017-2020
- Arundel Cottage Preserve 2016 – 2023
- Colby College Athletic Fields 2015-2017

WHITE BROTHERS, INC. Westbrook, ME

1993 – 2010 Superintendent, Project Manager & Estimator

Project Superintendent, Project Manager and Estimator for multiple projects simultaneously, including office buildings, commercial buildings, government building, wastewater treatment plants, and site concrete operations. Project manager and estimating of projects ranging for \$500K up to \$15M.

LA DREW, INC. North Conway, NH

1983 – 1993 Laborer through Project Superintendent

Laborer, foreman, then Superintendent on several construction projects

EDUCATION

UNIVERSITY OF NEW HAMPSHIRE Durham, NH

Civil Engineering Technology 1989

Business Management 1993

TRAINING

OSHA, HAZMAT, MSHA, Traffic Control, First Aid/CPR, HAZWOPER, Maine BMP Certified erosion control, and US Army Corps of Engineers Construction Quality Management

Professional Qualifications/Registration(s)

Professional Engineer (PE)

ME License No. 12634

CT License No. 0028537

SC License No. 31059

NY License No. 094257

Project Management Professional (PMP) No. 2144555

PMLG Certified Project Manager (CPM)

NCEES Registered Model Law Engineer No. 46114

Education

B.S. Civil & Environmental Engineering, University of Maine, Orono, 2005

B.S. Env. Science - Conservation Law, Unity College, Maine, 2000

Memberships/Affiliations

National Society of Professional Engineers (NSPE), Member

Project Management Institute (PMI), Member

Francis Crowe Society / Order of the Engineer

Certifications and Training

OSHA 40 Hour HAZWOPER + Current 8 Hour Annual Refresher

OSHA 30 Construction Safety

OSHA 8 Hour HAZWOPER Supervisor

HAZMAT DOT Shipping

Asbestos Site Inspector Training, Certificate No. SI-1598

PMLG Certified Project Manager Boot Camp

ASCE Construction Administration for Engineers

Amec Foster Wheeler Essentials of Project Management

Project Safety Management

NAAML Conference, Lexington, KY, 2017

Battelle Sediment Remediation Conference, New Orleans, LA, 2017

Mine Design, Operations & Closure Course, Fairmont, MT, 2016

ASCE Maine Section Technical Seminar, March 2013

Excavation and Trenching Safety, Ground Disturbance Safety

Confined Space Entry Awareness, Respiratory Protection

Asbestos and Lead Awareness, Hazard Communication

Microsoft Project, HCSS HeavyBid & HeavyJob

AGTEK Gradework 4D, Hydro CAD and AutoCAD

Summary of Qualifications

Jason Provencher has effectively served as construction project manager, engineer of record, project engineer, and design lead, for numerous environmental remediation and civil engineering projects.

Jason's pragmatic approach to the development of effective solutions and maintaining clear project communications and expectations results in the safe and successful completion of projects on time and within budget.

Mr. Provencher has substantial knowledge of civil construction, remediation of radiologically and chemically contaminated soil, sediment, buildings and utilities; safe shut down, decontamination and demolition of building structures; former mine site reclamation; and handling, management and off-site transportation and disposal of hazardous, non-hazardous, and radiological wastes.

Jason has completed work in both private and government sectors on commercial, industrial, and manufacturing sites under the requirements of CERCLA, RCRA, and the Maine DEP VRAP. He is experienced with regulatory permitting and working with multiple agencies and the public on sensitive projects with the potential for impact to the community and the environment.

Mr. Provencher has experience in project management, planning, civil site design, scheduling, and estimating.

R.J. Grondin Projects

Project Manager: General Contractor, CACP-MDOT Rt. 1 Offsite Improvements, Saco, Maine, March 2024 – Present

Responsible for project management and construction of a right turn lane on U.S. Route 1. The work includes drilling and blasting, overhead utility relocation, traffic control, and construction and paving of approximately 0.25 miles of roadway.

Project Manager: Sitework Contract, Fairview Commons, Topsham, Maine, October 2024 – Present

Responsible for project management of sitework for the construction of four (4) multi-tenant apartment buildings totaling 38 units, parking, infrastructure, and landscaping for the Housing Associates of Topsham. Work within the right of way is designed as a public road and will be offered to the Town for acceptance when complete.

Project Manager: Sitework Contract, The Enclave Phase I, S. Portland, Maine, July 2023 – Present

Responsible for project management of Phase 1 sitework for an approximate 18-acre parcel to be developed into a 34-unit duplex style 55+ townhome association. Phase 1 work includes installation of a pump station, gravity and sanitary sewer, water main, and foundations for 10 housing units. The work includes construction of a unique stormwater treatment and conveyance system including approximately 9,500 square feet of porous pavement and 4,550 square feet of porous pavers with underdrain, filter material, reservoir and choker stone.

Project Manager: Sitework Contract, National Guard Maintenance Facility, Saco, Maine, September 2022 - Present

Responsible for project management of sitework associated with the construction of a joint vehicle maintenance facility for both the Maine Army National Guard (ARNG) and Maine Air National Guard (ANG) at a 51-acre State-owned parcel. The new facility includes separate high-bay maintenance spaces, a vehicle wash pad, storage, office space, break rooms, shower and locker rooms, classroom space, and a physical fitness room. Supporting facilities for the site include roadways, parking areas, fenced vehicle storage, fuel tanks, site utilities, and stormwater management measures.

Project Manager: General Contractor, MaineDOT Rt. 236/91 Intersection Improvements, S. Berwick, Maine, July 2022 - December 2023

Responsible for project management of all aspects of roadwork associated with the construction of 0.40 miles of roadway and intersection improvements. The work included traffic control, overhead utility relocation, installation of underdrain piping and stormwater conveyance infrastructure, geometric reconfiguration and signalization of an intersection, rock core drilling and installation of strain poles, installation of truck mountable islands with granite curb, installation of turtle fencing adjacent to wetlands, and paving and striping of approximately 4,200 tons of bituminous asphalt.

Project Manager: General Contractor, Bruns Brothers, Grey, Maine, September 2023 – November 2023

Responsible for project management of grading and paving approximately 97,000 square feet of surface area and 2,400 tons of hot-bituminous asphalt pavement.

Project Manager: General Contractor, Victory Ave Water Main Replacement, Biddeford, Maine, September 2023 – November 2023

Responsible for project management of the replacement of approximately 650 linear feet of municipal watermain including 8 residential service connections.

Project Manager: General Contractor, Saco Road/Bracket Street, Gorham, Maine, June 2023 – August 2023

Responsible for project management of all aspects of roadwork associated with the construction of left turn and right turn lanes. The work included traffic control utilizing temporary traffic signals and construction and paving of approximately 1,750 linear feet of roadway at night.

Jason D. Provencher, PE, PMP, CPM

Project Manager: General Contractor, MaineDOT Waterford Large Culvert, Waterford, Maine, December 2023 – September 2024

Responsible for project management of the removal of a 5-foot diameter corrugated metal culvert and replacement with a 12' span x 7' rise x 120' long precast concrete clamshell style box culvert infilled with streambed special fill. The work included, but was not limited to, continuous stream bypass and dewatering operations, traffic detour and road closure, installation of box culvert and restoration of disturbed streambed and paved surfaces. The work was successfully completed directly adjacent to and in a tributary directly discharging into the Crooked River which is designated as a Maine DEP Class AA freshwater river.

Project Manager: General Contractor, Copart, Windham, Maine, October 2021 – May 2023

Responsible for project management of all aspects of work associated with the development of approximately 47-acres as a temporary automobile storage yard and construction of a 7,200-square foot office and warehouse building, an entry drive and parking area, and fueling station. The work included drilling/blasting and common excavation of approximately 50,000 cubic yards of onsite material, placement of approximately 18,000 cubic yards of 3" stone surface for vehicle storage, and construction of stormwater conveyance and underdrained soil filter systems.

Project Manager: Sitework Contract, Piper Shores The Meadows, Scarborough, Maine, January 2021 – July 2023

Responsible for project management of sitework associated with the development of 45-acres as a residential retirement community consisting of three neighborhoods with eight estate-style residences, eight duplex cottage residences, a 23,931-square foot clubhouse with 28 attached apartments, complete with restaurant/bar, fitness center, clinic and movie theater. The work included demolition of an existing residential home with detached outbuilding, drilling/blasting and excavation of approximately 40,000 cubic yards of rock, onsite processing of aggregates, construction of two wet ponds, and installation of all site utilities including, but not limited to, water main, gravity sanitary sewer, and a sanitary pump station with force main.

Project Manager: Sitework Contract, O'Keefe Dental Office, Oakland, Maine, January 2021 – March 2022

Responsible for project management of all aspects of sitework associated with the construction of an approximate 5,400 square foot dental office, parking lot, and site improvements.

Project Manager: Sitework Contract, Mercy Hospital Fore River Expansion & Ambulatory Surgery Center, Portland, Maine, January 2020 – May 2022

Responsible for project management of sitework associated with the Mercy Hospital Fore River Consolidation Project, including but not limited to: excavation and backfill for a deep foundation system and 55,000 square foot addition adjacent to an existing hospital to remain in service, utility installation and construction of a new 35,000 square foot Ambulatory Surgery Center, and sitework in support of a temporary emergency COVID testing facility. Complexities of the work included connection of a sanitary sewer line in immediate proximity to a 115 KVA, 10-Inch diameter, oil encased electrical transmission line serving the greater Portland area, hydrovac excavation inside an existing medical office building, and working under a Maine DEP Voluntary Remedial Action Program.

Project Manager: Sitework Contract, ON Semiconductor Chemical Storage Building, S. Portland, Maine, November 2019 – June 2021

Responsible for project management of sitework associated with the removal of existing below grade utilities, demolition of a bulk chemical storage building and construction of a new 13,000 square foot chemical storage facility. The work included handling and management of Tetrachlorethylene (TCE) contaminated soil materials, installation of new utilities, and construction of a subsurface storage chamber system.

Project Manager: Sitework Contract, Patagon Storage, Portland, Maine, August 2019 – November 2020

Responsible for project management of all aspects of sitework associated with the construction of a new 33,500 square foot, multi-level, climate-controlled storage facility. Sitework included the preparation for placement Low Density Controlled Low Strength Material (LD-CLSM) beneath the building slab, installation of soil filter ponds, and installation of site utilities.

Jason D. Provencher, PE, PMP, CPM

Project Manager: Sitework Contract, Town of Scarborough, Scarborough, Maine, November 2018 - November 2020

Responsible for project management of sitework associated with the construction of a new 25,000 square foot, multi-level, public safety building. Major earthwork items include, but are not limited to; abandonment of utilities, demolition of buildings, drilling and blasting, excavation and backfill for foundations and footings, installation of utility services, installation of soil filter ponds and an 18,000 square foot subsurface underdrained sand filter system, construction of retaining walls up to 24 feet high, and other site improvements.

Project Manager: Sitework Contract, IDEXX Synergy East Building, Westbrook, Maine, July 2018 - September 2020

Responsible for project management of sitework associated with a multi-level, 135,000 square foot expansion of the IDEXX Laboratories global headquarters. Sitework included installation of domestic water and fire protection services, stormwater conveyance and reclamation systems including but not limited to the installation of a 30,000-gallon rainwater storage cistern, excavation and backfill for foundations and footings supported on H-piles, and installation of site improvements.

Project Manager: Water Main Extension, Portland Water District, Scarborough, Maine, 2019

Responsible for the installation of approximately 1,400 linear feet of 16" water main including multiple hydrants and connection to existing water transmission system.

Project Manager: Sitework Contract, Cape Arundel Cottage Preserve, Arundel, Maine, January 2019 - January 2024

Responsible for the ongoing earthwork construction associated with a 263-unit seasonal cottage resort community. The 300-acre project includes amenities such as community clubhouse, pool, fitness center, sports fields, and 180-acres of conservation land and hiking trails. *The Cape Arundel Cottages, LLC is the recipient of the National Association of Home Builders, Best in American Living™ 2018 Gold Award.* The work included installation of multiple sanitary sewer pump stations and construction of a specialized waste water treatment system using Aeration Systems, LLC technology and EZFLOW® Gravel-less leachfield piping.

Project Manager: Sitework Contract, Owner: Hannaford Retail Services, Bridgton, Maine, July 2018 - June 2019

Responsible for project management of sitework associated with a 10,000 square foot expansion and renovation of an existing 48,000 square foot Hannaford Supermarket. Work was completed while retail services were maintained during peak season.

Project Manager: Sitework Contract, Confidential Client, Windham, Maine, June 2018 - November 2019

Responsible for project management of sitework including ledge blasting, rock removal, and installation of approximately 1,200 linear feet of electrical duct bank and manholes for 3 Phase power to service a future commercial development. The project required extensive coordination with electric and oil/gas utility companies.

Other Representative Projects

Engineer of Record: CONFIDENTIAL CLIENT, Henry Knob Former Mine Site (Superfund Alternative Site), Mine Reclamation, York County, South Carolina, December 2013 – Present [US EPA Superfund Redevelopment Initiative, 2017 Excellence in Site Reuse Award Recipient]

In responsible charge of the preparation of engineered design drawings and construction contract documents for, and construction project management of, multiple dam rehabilitation projects, grading and drainage improvements, and installation of vegetative cover to mitigate tailings as a source of acid mine drainage at a former 200 +/- acre kyanite mine.

Engineering Lead: CONFIDENTIAL CLIENT, Facility RCRA Corrective Action Program, Stratford, Connecticut, July 2017 - Present

Responsible for the preparation of remedial action plans and engineering control design documents for a capping remedy of a former industrial landfill and remediation of chemically contaminated soil.

Jason D. Provencher, PE, PMP, CPM

Engineer of Record: CONFIDENTIAL CLIENT, Former Portland Gas Works Site, Portland, Maine

Former Portland Gas Works site remediation under the Maine Department of Environmental Protection (MEDEP) Voluntary Remedial Action Program (VRAP).

- *Seep Area Remediation, June 2014 – January 2016 [American Council of Engineering Companies (ACEC) of Maine, 2016 Engineering Excellence Honor Award & 2017 ACEC National Recognition Award Recipient]*
In responsible charge of the preparation of engineering design documents and for administration of remedial construction of a shoreline seep area in which non-aqueous phase liquid (NAPL) within a thin layer of silty sand along the top of the native Presumpscot formation layer in the Fore River was to be removed.
- *Purifier Box Waste Area Remediation, January 2013 - December 2013*
In responsible charge of the preparation of construction contract documents and for construction project management of the excavation, containerization, transportation, and proper off-site disposal of purifier box waste materials contaminated with cyanide, volatile organic compounds (VOCs), and polyaromatic hydrocarbons (PAHs).

Engineer of Record: CONFIDENTIAL CLIENT, Facility Decontamination, Pittsfield, Maine, July 2014 - December 2015

Responsible for the preparation of contract documents including work scope and technical specifications for facility decontamination of residual lead and lead dust to meet clean-up criteria for RCRA Permit closure and to enable future reuse and re-occupancy of a 158,000 square foot industrial and manufacturing facility.

Project Engineer: US Coast Guard, Industrial Production Detachment (IPD), South Weymouth, Massachusetts, November 2014 - December 2015

Responsible for the preparation of engineered design drawings and technical specifications for the remediation of a 5.5-acre site including a buoy staging area, drainage swale and wetland impacted with metals including lead, arsenic, chromium, copper, nickel, and zinc. Remediation to be completed under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

Project Engineer: CONFIDENTIAL CLIENT, Nuclear Metals Inc. Superfund Site, Non-Time-

Critical Removal Action (NTCRA) Buildings Demolition, Concord, Massachusetts, August 2011 – August 2016

Responsible for providing engineering design, consulting, and project management support services for the removal of building systems, demolition of 150,000 square feet of structure, and placement of a temporary geomembrane cover system at a former research and manufacturing operation contaminated with depleted uranium and beryllium alloy products.

Project Engineer: CONFIDENTIAL CLIENT, Batavia Iron and Metal Company Off-

Site Property Remediation, Batavia, New York, May 2014 - June 2014

Responsible for the preparation of technical specifications for the remediation of off-site soils impacted with PCBs, polycyclic aromatic hydrocarbons (PAHs), metals, and volatile organic compounds (VOCs) resulting from past metal recycling and other industrial activities.

Project Coordinator: CONFIDENTIAL CLIENT, Facility RCRA Corrective Action Program, Corrective Measure Study, Stratford, Connecticut, April 2013 - July 2013

Project Coordinator for RCRA Corrective Measure Study at a large active aeronautical manufacturing plant for twelve Areas of Concern, five wetland/sediment areas, and two groundwater plumes.

Jason D. Provencher, PE, PMP, CPM

Project Engineer: CONFIDENTIAL CLIENT, Windsor Site, Windsor, Connecticut

Radiological Decontamination and Decommissioning (D&D) program, RCRA Corrective Action Program, and buildings demolition program for this former nuclear fuel cycle and fossil fuel combustion research facility to prepare the 600 +/- acre site for redevelopment. This project included D&D of more than 250,000 square feet of radiologically contaminated buildings, demolition of more than 325,000 square feet of non-contaminated buildings and remediation of radiologically contaminated soils and sediment as a result of nuclear fuel production. Work at the Site was conducted under multiple regulatory programs, including the NRC license, USEPA RCRA Corrective Action, Connecticut Department of Environmental Protection (CTDEP) Property Transfer and Remediation programs, CTDEP Radiation Division D&D requirements, USACE wetlands permits and USACE Formerly Utilized Sites Remedial Action Program (FUSRAP) requirements.

- *Goodwin Pond Dam Repairs, August 2011 - January 2013*
Repair, modification, and improvement of an existing earthen dam including replacement of the inlet structure and culvert pipe and construction of an emergency spillway.
- *Culvert Replacement, October 2011 - December 2012*
Replacement of a 24" reinforced concrete pipe with an 18' aluminum box culvert and restoration of stream channel.
- *West Campus Demolition, June 2009 - February 2012*
Abatement of asbestos and PCB containing materials and demolition of over 350,000 square feet of former administrative support and research buildings.
- *Former Equipment Storage Yard (AOC 10) Remediation, August 2010 - December 2011*
Excavation, screening, and sorting of 75,000 +/- cubic yards of potentially contaminated historic fill materials (soil and debris) adjacent to a water body.
- *Site Brook and Debris Piles Remediation, July 2009 - December 2011*
Stream and wetlands remediation consisting of the removal of 1,800 +/- cubic yards of radiologically contaminated soils and sediments from a 3,500 linear foot stream and adjacent impacted areas.
- *Building 6, 7A, and 3/3A Slab Decontamination and Dismantlement, June 2009 - December 2011*
Decontamination and dismantlement of a former waste liquid dilution facility and removal of below grade utilities associated with a former nuclear research, development, and fuel fabricating facility.
- *Soils and Waste Lines Remediation, May 2009 - December 2011*
Removal of radiologically and/or chemically contaminated soils, historical fill materials, structures, and piping associated with stormwater sewers, sanitary sewers, and waste transport lines to 20' +/- bgs.
- *Building 7 Demolition, January 2011 - June 2011*
Demolition of a 15,000 +/- square foot former boiler house, removal of a 15,000-gallon abandoned underground fuel oil storage tank, and excavation of ETPH contaminated soil.
- *Building 3 Above Grade Decontamination and Dismantlement, September 2007 - August 2009*
Decontamination and dismantlement of an approximately 56,000 square foot former nuclear research, development, and fuel fabricating facility.
- *Lamberton Road, Windsor, Connecticut - 2009*
Closure of an 8,000-gallon UST fuel oil storage tank. Including remediation of soil and groundwater associated with a release from tank piping.

Staff Engineer: CONFIDENTIAL CLIENT, Phase I Environmental Site Assessments, Northeastern States - 2007

Responsible for conducting Phase I environmental site assessments including the preparation and peer review of Phase I reports for retail service station and petroleum / home heating oil storage and distribution properties.

Jason D. Provencher, PE, PMP, CPM

Honors and Awards

USEPA Certificate of Recognition for Contribution to the Henry Knob Mine Site Reclamation, May 2019

Amec Foster Wheeler CEO Award, 2009

Publications and Presentations

“Remediation of Coal Tar Impacted Intertidal Sediment in the Fore River, Portland Harbor, Maine.” Jason Provencher, Peter Thompson, Richard Egan, Andrew McCusker, and Thomas Murphy. Battelle Remediation and Management of Contaminated Sediments Conference, New Orleans, Louisiana, USA. January, 2017

“Uranium and Beryllium Decontamination and Decommissioning in a Developed Neighborhood.” Nelson Walter, Jason Provencher, Rod Pendleton, and John Hunt. Waste Management Symposia, Phoenix, Arizona, USA. March, 2017.

“Remediation of Coal Tar Impacted Intertidal Sediment in the Fore River, Portland Harbor, Maine.” John A. Collins, (AquaBlok, LTD., Swanton, Ohio) Jason Provencher, Richard Egan, and Peter Thompson (Amec Foster Wheeler Environment & Infrastructure, Portland, Maine, USA). The Seventh International Symposium and Exhibition on the Redevelopment of Manufactured Gas Plant Sites (MGP 2017), New Orleans, Louisiana, USA. October 2017.

RAYMOND ALLARD
General Superintendent

WORK EXPERIENCE

R. J. GRONDIN & SONS Gorham, ME 04038

2024 – Present

General Superintendent

Coordinate the resources needed to complete the daily activities for 12+ projects to ensure each job is running smoothly and on schedule. Responsible for the management of 175 pieces of equipment and upwards of 100 field personnel.

2015 – 2023

Project Manager / Estimator

Project Manager and Estimator for multiple projects simultaneously, including road reconstruction, site preparation, landfills, commercial, governmental, residential subdivisions, building, institutional, and utility installations. Project manager and estimating of projects ranging for \$500k up to \$15 million.

2004 – 2015

Superintendent

- Rt. 114 Gorham- 6.5 miles of road reconstruction and relocation (\$8M)
- Rt. 302 Windham- 4 miles of road reconstruction (\$7M)
- Westbrook Middle school – building foundation, parking lots, several athletic fields, complex pond systems (\$4M)
- Gorham Elementary School- building foundation, 1400' access road, parking lots, athletic fields, wetland relocation (\$3M)
- Naples Causeway Relocation Project - 4000' road relocation and reconstruction on Rt. 302 and Rt. 114 (\$2M)

1998 – 2004

Construction Surveyor

Responsible for layout of roads, parking lots, building foundations, and drainage systems on all projects throughout the company.

EDUCATION

UNIVERSITY OF MAINE Orono, ME

BA, Construction Management

May 1998

CETIFICATION

40 hr. OSHA, trenching and excavation, 40 hr. HAZWOPER, erosion control

MATTHEW SPEARIN

Foreman

WORK EXPERIENCE R. J. GRONDIN & SONS, INC. Gorham, ME

2014 – Present Project Foreman

Manage single and multiple crews on government and private-sector projects. Extensive experience in underdrain, sewer and water renovation and replacement projects. Experience in roadwork that includes highway reconstruction and road repairs. Selected projects include:

- MDOT Route 202 Reconstruction (2024 -
- Poland Spring Bottling Facility Dockyard Expansion (2022-2023)
- Route 1 Sewer Extension Project Saco (2021)
- Maine Water North St Water Line Replacement (2020)
- Saco Public Works Sitework and Utilities (2019)
- Saco Lincoln & Market Street Infrastructure Improvements (2018-2019)
- Westbrook sewer/water separation Westbrook (2017)
- MDOT Road Repair & Shoulder Rehab Gray (2016) - Gray
- ROUTE 5 Road Repair & Shoulder Rehab Waterboro (2015)
- Ogunquit Road & Drainage Reconstruction (2015)
- Portsmouth Naval Shipyard Water Main Replacement (2014)
- Arboretum Site Work & Drainage Installation Newington, NH (2013-2014)
- Casella/Pine Tree Waste Water & Drainage Installation Scarborough (2012)

2005 – 2014 Construction Laborer

Participated in government and private projects including general roadwork, pipe laying, small equipment operating and site work projects.

EDUCATION UNIVERSITY OF MAINE Orono, ME

BS, Construction Management Technologies
May 2012

TRAINING OSHA, HAZMAT, MSHA, Traffic Control, First Aid/CPR, HAZWOPER

Bonding/ Insurance



THE ROWLEY AGENCY^{INC}
INSURANCE • BONDS • BENEFITS
...an Assurex Global Partner

May 30, 2024

Alex Buechner, Wastewater Superintendent
CITY OF BIDDEFORD
Public Works Department
371 Hill Street
Biddeford, ME 04005

Re: APEX CONSTRUCTION, INC.
361 Route 108, Unit 1
Somersworth, NH 03878

Project: FMI Pump Station Upgrade Project

Dear Mr. Buechner:

This letter confirms that Apex Construction, Inc. is a highly regarded and valued bonding client of the Berkley Insurance Company.

Apex Construction, Inc. has developed a long and successful track record of completing projects on time and within the available budget. Regarding bonding capacity, the Berkley Insurance Company anticipates supporting Apex Construction, Inc. on individual undertakings in the range of \$50,000,000 and a maximum bonding capacity of \$75,000,000.

Naturally, as is customary within the Surety industry, the issuance of any bid or final bonds will be contingent upon a favorable underwriting review, to include, but not limited to a satisfactory review of contract documents, confirmation of acceptable financing and payment provisions.

We assume no liability to third parties or to you by the issuance of this letter.

Please feel free to contact me if you have any questions.

Sincerely,

THE ROWLEY AGENCY, LLC.

By: _____

Michael P. O'Brien
Account Executive

MPO/pjc



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

05/30/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER THE ROWLEY AGENCY 45 Constitution Avenue P.O. Box 511 Concord NH 03302-0511	CONTACT NAME: Sarah Fifield PHONE (A/C, No, Ext): (603) 224-2562 FAX (A/C, No): (603) 224-8012 E-MAIL ADDRESS: sfifield@rowleyagency.com																					
INSURED Apex Construction Inc. 361 Route 108 Unit 1 Somersworth NH 03878	<table><tr><th colspan="2">INSURER(S) AFFORDING COVERAGE</th><th>NAIC #</th></tr><tr><td>INSURER A:</td><td>Citizens Insurance Company of America</td><td></td></tr><tr><td>INSURER B:</td><td>Allmerica Financial Benefits</td><td>41840</td></tr><tr><td>INSURER C:</td><td>Hanover Insurance Co.</td><td>22292</td></tr><tr><td>INSURER D:</td><td>Hanover Ins - Bedford</td><td></td></tr><tr><td>INSURER E:</td><td></td><td></td></tr><tr><td>INSURER F:</td><td></td><td></td></tr></table>	INSURER(S) AFFORDING COVERAGE		NAIC #	INSURER A:	Citizens Insurance Company of America		INSURER B:	Allmerica Financial Benefits	41840	INSURER C:	Hanover Insurance Co.	22292	INSURER D:	Hanover Ins - Bedford		INSURER E:			INSURER F:		
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INSURER E:																						
INSURER F:																						

COVERAGES**CERTIFICATE NUMBER:** 24/25 Master**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR ☒ Contractual Liability ☒ No X,C,U, Exclusion GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PRO-JECT ☒ LOC OTHER:			ZBVH588549	05/01/2024	05/01/2025	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY			AWVH588524	05/01/2024	05/01/2025	COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ 1,000,000 BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
C	☒ UMBRELLA LIAB ☒ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE DED ☒ RETENTION \$ 0			UHVH588551	05/01/2024	05/01/2025	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	WHVH588510	05/01/2024	05/01/2025	☒ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Installation Floater Leased/Rented Equipment			ZBVH588549	05/01/2024	05/01/2025	\$100,000 Limit \$1,000 ded \$150,000 Limit \$1,000 ded

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

City of Biddeford Public Works Department and all other parties as required by written contract are additional insured on a primary, non-contributory basis under the general liability for both ongoing per form CG2010(10/01) and completed operations per form CG2037(10/01) or their equivalent, auto liability and excess liability. Waiver of subrogation in favor of the additional insureds is provided under the general liability, auto liability and excess liability if required by written contract.

Workers Compensation - no excluded officers. 3A States: MA, ME, NH, VT.

CERTIFICATE HOLDER**CANCELLATION**

City of Biddeford Public Works Department 371 Hill Street Biddeford ME 04005	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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AGENCY CUSTOMER ID: 00000099

LOC #: _____



ADDITIONAL REMARKS SCHEDULE

Page _____ of _____

AGENCY THE ROWLEY AGENCY		NAMED INSURED Apex Construction Inc.
POLICY NUMBER		
CARRIER	NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance: Notes

(C)Excess Liability, Occurrence Form, \$5M in Excess of \$10M
Policy #LHA102340,
Term 05/01/24 - 05/01/25
\$5,000,000 each occurrence
\$5,000,000 aggregate

(E)Pollution Liability, Claims Made Form
Policy #GA24ECPZ0564CIC
Term 05/01/24 - 05/01/25
\$5,000,000 Each Pollution Condition
\$10,000,000 Aggregate
\$25,000 Deductible - Each Claim

(F)Professional Liability, Claims Made Form
Policy #PCXB-5024724-0524
Term 05/01/24 - 05/01/26
\$1,000,000 Per Claim
\$1,000,000 Aggregate
\$25,000 Self Insured Retention
\$50,000 Self Insured Retention Aggregate

			Comments
SCADA		\$108,210	Control panels, PLC, Pump, Wetwell JB,
Electrical		\$90,680	Building, Slab, Service, Conduit
Equip		\$53,867	Equipment rental 2 months
Site Excavation		\$55,600	New valve pit, force main and gravity.
Structures		\$90,910	Valve Pit, replace existing valve Pit
Pump		\$86,884	Smart pumps - Stevens install price 75
Piping		\$29,640	Valve pit/Force main/gravity sewer
Sub Total		\$515,791	
Project management -			
Possible Outside			
engineering @ times.	10%	\$51,579	Possible return
Design contingency	15%	\$77,368	Possible return
Inflation	5%	\$25,789	Possible return
Construction as built			
/Outside Engineering	5%	\$25,789	Possible return
Mobilization	10%	\$51,579	Some possible return
Sub Total:		\$232,104	
Grand Total:		\$747,895	

, flow tube



.

5K, dumb pumps

SCADA

Items			Material - wire/term/conduit			Labor - Eng/spec/d
ITEM	DESCRIPTION	QTY	Qty	Unit	Price	Qty/Unit
PLC Panel PCP						
PCP.1	UL Panel for control	1	1	LS	\$ 10,000	40
PCP.2	UL Panel Review	1				5
PCP.3	Panel Layout Drawings	1				30
PCP.4	Submittals For Manual	1				20
PCP.5	Shipping / Delivery	1				4
PCP.6	Panel Testing - UL	1				8
ITEM	DESCRIPTION	QTY	Qty	Unit	Price	Qty/Unit
Pump Starter Panel - 480v						
MSpnl.1	UL Panel for Pump Power	1	1	LS	\$ 4,000	20
MSpnl.2	UL Panel Review	1				5
MSpnl.3	Panel Layout Drawings	1				10
MSpnl.4	Submittals For Manual	1				5
MSpnl.5	Shipping / Delivery	1				5
MSpnl.6	Panel Testing - UL	1				8
ITEM	DESCRIPTION	QTY	Qty	Unit	Price	Qty/Unit
WetWell JB's						
JB.1	UL Panel for WetWell	1	1	LS	\$ 4,000	20
JB.2	Meltrec Plug - 6 prong	1				5
JB.3	Panel Layout Drawings	1				10
JB.4	Submittals For Manual	1				5
JB.5	Shipping / Delivery	1				5
JB.6	Panel Testing - UL	1				8
ITEM	DESCRIPTION	QTY	Qty	Unit	Price	Qty/Unit
SCADA						
SCADA.1	Loop description	1				2
SCADA.2	Meetings for control narrative	1				2
SCADA.3	I/O drawings	1				20
SCADA.4	Narrative of each input ?	1				
SCADA.5	1 day programming to fix stuff	1				8
SCADA.6	GC to coordinate SI and AECS	1				0
SCADA.7	G1- more coordination, G2 O&M	1				0
SCADA.8	SCADA screen at WWTB	1				8

SCADA.9	Submittals of PLC/HMI programs	1		4
SCADA.10	PCP Panel - FAT Test	1		8
SCADA.11	PLC, HMI, Programing	1		20
SCADA.12	Pump Controller interface	1		16

ITEM	DESCRIPTION	QTY	Qty	Unit	Price	Qty/Unit
Instruments						
Inst.1	LT-100 Wet well level	1	1	LOT	\$ 500	1
Inst.2	LSH-100/LSL100 Opti Floats	2	1	LOT	\$ 500	1
Inst.3	FIT-120,121 14"mag tubes	2	1	LOT	\$ 500	1
Inst.4	PIT-125, 126 force main pressure	2	1	LOT	\$ 500	1
Inst.5	Manufacture data PDF submittle	1	1	LOT		4
Inst.6	Site acceptance 1 day for above	1	1	LOT		16
Inst.7	Acceptance Testing	1	1	LOT		4
Inst.8	O&M config sheets only FIT and PIT - others have not config	4	1	LOT		
Inst.9	Cordination - manufacture recommendations	6	1	LOT		4
Inst.10	work with AESS scaling	6	1	LOT		
Inst.11	Field calabration	7	1	LOT		8

ITEM	DESCRIPTION	QTY	Qty	Unit	Price	Qty/Unit
Radio						
Radio.1	Dirigo wireless	1	1	LOT	\$ 1,000	8
Radio.2	Mast by GC	1	1	LOT		
Radio.3	Quality - YES	1	1	LOT		
Radio.4	Submittals for radio	1	1	LOT		2
Radio.5	Shipping per 13440 - yes	1	1	LOT		

STUDY No.
DATE 8-Jul-24
ENG'R City \$108,210

		Totals				
Unit	Rate	Equipment	MAT'L	LABOR	Cost	Comments
						W&P spec 13444
HOURS	\$130	\$3,000	\$10,000	\$5,200	\$18,200	Modem 3K
HOURS	\$130		\$0	\$650	\$650	
HOURS	\$130		\$0	\$3,900	\$3,900	
HOURS	\$130		\$0	\$2,600	\$2,600	
HOURS	\$130		\$0	\$520	\$520	
HOURS	\$130		\$0	\$1,040	\$1,040	
			\$0	\$0	\$0	

\$3,000 \$10,000 \$13,910 \$26,910

Unit	Rate	Equipment	MAT'L	LABOR	Cost	Comments
HOURS	\$130	\$3,000	\$4,000	\$2,600	\$9,600	
HOURS	\$130		\$0	\$650	\$650	
HOURS	\$130		\$0	\$1,300	\$1,300	
HOURS	\$130		\$0	\$650	\$650	
HOURS	\$130		\$0	\$650	\$650	
HOURS	\$130		\$0	\$1,040	\$1,040	
			\$0	\$0	\$0	

\$3,000 \$4,000 \$6,890 \$13,890

Unit	Rate	Equipment	MAT'L	LABOR	Cost	Comments
HOURS	\$130	\$3,000	\$4,000	\$2,600	\$9,600	
HOURS	\$130	\$5,000	\$0	\$650	\$5,650	
HOURS	\$130		\$0	\$1,300	\$1,300	
HOURS	\$130		\$0	\$650	\$650	
HOURS	\$130		\$0	\$650	\$650	
HOURS	\$130		\$0	\$1,040	\$1,040	
			\$0	\$0	\$0	

\$8,000 \$4,000 \$6,890 \$18,890

Unit	Rate	Equipment	MAT'L	LABOR	Cost	Comments
HOURS	\$130		\$0	\$260	\$260	W&P spec 13441 &13442
HOURS	\$130		\$0	\$260	\$260	
HOURS	\$130		\$0	\$2,600	\$2,600	
HOURS	\$130		\$0	\$0	\$0	
HOURS	\$130		\$0	\$1,040	\$1,040	
HOURS	\$130		\$0	\$0	\$0	
HOURS	\$130		\$0	\$0	\$0	
HOURS	\$130		\$0	\$1,040	\$1,040	

HOURS	\$130		\$0	\$520	\$520
HOURS	\$130		\$0	\$1,040	\$1,040
HOURS	\$130		\$0	\$2,600	\$2,600
HOURS	\$130		\$0	\$2,080	\$2,080
		\$0	\$0	\$11,440	\$11,440

Unit	Rate	Equipment	MAT'L	LABOR	Cost	Comments
						W&P spec 13440
HOURS	\$130	\$2,000	\$500	\$130	\$2,630	
HOURS	\$130	\$2,500	\$500	\$130	\$3,130	
HOURS	\$130	\$11,000	\$500	\$130	\$11,630	
HOURS	\$130	\$5,000	\$500	\$130	\$5,630	
HOURS	\$130	\$0	\$0	\$520	\$520	
HOURS	\$260		\$0	\$4,160	\$4,160	vender startup
HOURS	\$130		\$0	\$520	\$520	
HOURS	\$130		\$0	\$0	\$0	
HOURS	\$130		\$0	\$520	\$520	
HOURS	\$130		\$0	\$0	\$0	
HOURS	\$130		\$0	\$1,040	\$1,040	
			\$0	\$0	\$0	
			\$2,000	\$7,280	\$29,780	

Unit	Rate	Equipment	MAT'L	LABOR	Cost	Comments
						W&P spec 13455
HOURS	\$130	\$5,000	\$1,000	\$1,040	\$7,040	
HOURS	\$130		\$0	\$0	\$0	
HOURS	\$130		\$0	\$0	\$0	
HOURS	\$130		\$0	\$260	\$260	
HOURS	\$130		\$0	\$0	\$0	
			\$0	\$0	\$0	
			\$1,000	\$1,300	\$7,300	
			\$21,000	\$47,710	\$108,210	

Horrigans Total:
\$ 197,982.00

Horrigan Price

\$ 51,294.00
Horrigan Price

Horrigan Price

Horrigan Price

\$ 80,600.00

Horrigan Price

\$ 77,200.00

Horrigan Price

\$ 9,640.00

ELECTRICAL

Items			Material - wire/term/conduit			Labor - Eng/spec/d
ITEM	DESCRIPTION	QTY	Qty	Unit	Price	Qty/Unit
Electrical Building Shop						
BLDG.1	Prefab Building Structure	1	1	LS	\$ 9,500	80
BLDG.2	Electrical Service	1	1	LS	\$ 10,000	80
BLDG.3	Layout Drawings	1				20
BLDG.4	Mount and wire control Pnl & wire	1	1	LS	\$ 500	16
BLDG.5	Shipping / Delivery	1				16
ITEM	DESCRIPTION	QTY	Qty	Unit	Price	Qty/Unit
Electrical building on site						
Site El.1	Site Prep - Slab	1	1	LS	\$ 4,000	40
Site El.2	Service Conduit to pole	1	100	FT	\$ 60	20
Site El.3	Deliver and install Building	1				20
Site El.4	Seal and Anchor building	1	1	LS	\$ 1,000	20
Site El.5		1				
Site El.6		1				
ITEM	DESCRIPTION	QTY	Qty	Unit	Price	Qty/Unit
Electrical						
ELEC.1	Temp power for existing pumps	1	1	LS	\$ 2,000	20
ELEC.2	Mount WW JB	1	1	LS	\$ 1,000	20
ELEC.3	Conduit WW JB	1	1	LS	\$ 2,000	20
ELEC.4	Conduit for Valve Pit/ Flow tube	1	1	LS	\$ 2,000	20
ELEC.5	Wetwell wiring - Pump, Float, level	1	1	LS	\$ 4,000	20
ELEC.6	Terminate wires in control panels	1	1	LS	\$ 1,000	20
ELEC.7		1				0

STUDY No.
DATE 8-Jul-24
ENG'R City \$90,680

Unit	Rate	Equipment	Totals		Cost	Comments
			MAT'L	LABOR		
HOURS	\$90		\$9,500	\$7,200	\$16,700	
HOURS	\$90		\$10,000	\$7,200	\$17,200	
HOURS	\$90		\$0	\$1,800	\$1,800	
HOURS	\$90		\$500	\$1,440	\$1,940	
HOURS	\$90		\$0	\$1,440	\$1,440	
			\$0	\$0	\$0	
		\$0	\$20,000	\$19,080	\$39,080	

Unit	Rate	Equipment	MAT'L	LABOR	Cost	Comments
HOURS	\$130		\$4,000	\$5,200	\$9,200	
HOURS	\$130		\$6,000	\$2,600	\$8,600	
HOURS	\$130		\$0	\$2,600	\$2,600	Truck,trailer Skid steer
HOURS	\$130		\$1,000	\$2,600	\$3,600	
HOURS	\$130		\$0	\$0	\$0	
HOURS	\$130		\$0	\$0	\$0	
			\$0	\$0	\$0	
		\$0	\$11,000	\$13,000	\$24,000	

Unit	Rate	Equipment	MAT'L	LABOR	Cost	Comments
HOURS	\$130		\$2,000	\$2,600	\$4,600	W&P spec 13441 &13442
HOURS	\$130		\$1,000	\$2,600	\$3,600	
HOURS	\$130		\$2,000	\$2,600	\$4,600	Digging and install
HOURS	\$130		\$2,000	\$2,600	\$4,600	
HOURS	\$130		\$4,000	\$2,600	\$6,600	Plugs and rack fro hanging
HOURS	\$130		\$1,000	\$2,600	\$3,600	
HOURS	\$130		\$0	\$0	\$0	
		\$0	\$12,000	\$15,600	\$27,600	

\$43,000

Horrigan Price

Horrigan Price

Horrigan Price

floats

\$ 80,600.00

Equipment Rental

Items		Material - wire/term/conduit				Labor -
ITEM	DESCRIPTION	QTY	Qty	Unit	Price	Eng/spec/d
						Qty/Unit
	Rental equip					
EQUIP.1	ByPass Pump - 2 months	1	2	LS	\$ 10,971	
EQUIP.2	Mini Excavator	1	2	LS	\$ 2,661	
EQUIP.3	Large Excavator	1	2	LS	\$ 4,883	
EQUIP.4	Track Loader	1	2	LS	\$ 3,918	
EQUIP.5	Nest - Pumping	1				40

STUDY No.

DATE 8-Jul-24

ENG'R City #REF!

Unit	Rate	Equipment	Totals			Comments
			MAT'L	LABOR	Cost	
HOURS	\$90		\$21,943	\$0	\$21,943	
HOURS	\$90		\$5,322	\$0	\$5,322	
HOURS	\$90		\$9,766	\$0	\$9,766	
HOURS	\$90		\$7,836	\$0	\$7,836	
HOURS	\$225		\$0	\$9,000	\$9,000	
			\$0	\$0	\$0	
		\$0	\$44,867	\$9,000	\$53,867	

Horrigan Price

Structure

Items		Material - wire/term/conduit				Labor -
ITEM	DESCRIPTION	QTY	Qty	Unit	Price	Eng/spec/d Qty/Unit
Site						
Site.1	Grub site	1	1	LS		160
Site.2	A1 Dumpster	1	4	LS	\$ 600	
Site.3	Simpson disposal	1	1	LS	\$ 1,200	
Site.4	Erosion control	1	1	LS	\$ 4,000	80
Site.5	final grade	1	1	LS	\$ 4,000	80
Site.6	Reprocessed - Driveway	1	1	LS	\$ 8,000	80

STUDY No.

DATE 8-Jul-24

ENG'R City #REF!

Unit	Rate	Equipment	Totals			Comments
			MAT'L	LABOR	Cost	
HOURS	\$90		\$0	\$14,400	\$14,400	
HOURS	\$90		\$2,400	\$0	\$2,400	rent dumpster
HOURS	\$90		\$1,200	\$0	\$1,200	by the ton
HOURS	\$90		\$4,000	\$7,200	\$11,200	bark mulch around site
HOURS	\$90		\$4,000	\$7,200	\$11,200	
HOURS	\$90		\$8,000	\$7,200	\$15,200	
		\$0	\$19,600	\$36,000	\$55,600	

Horrigan Price

Structure

Items		Material - wire/term/conduit				Labor -
ITEM	DESCRIPTION	QTY	Qty	Unit	Price	Eng/spec/d
Qty/Unit						
Electrical Building Shop						
Struc.1	Valve Pit/Flow meter	1	1	LS	\$ 10,000	160
Struc.2	Valve Pit Cover - H2O with hatch	1	1	LS	\$ 1,000	40
Struc.3	Replace existing valve Pit	1	1	LS	\$ 10,000	160
Struc.4	Bollard	4	1	LS	\$ 500	40
Struc.5						

STUDY No.

DATE 8-Jul-24

ENG'R City #REF!

Unit	Rate	Equipment	MAT'L	Totals		Comments
				LABOR	Cost	
HOURS	\$90	\$14,700	\$10,000	\$14,400	\$39,100	material-gravel,stone
HOURS	\$90	\$6,685	\$1,000	\$3,600	\$11,285	
HOURS	\$90	\$11,230	\$10,000	\$14,400	\$35,630	
HOURS	\$90	\$795	\$500	\$3,600	\$4,895	
HOURS	\$90		\$0	\$0	\$0	
			\$0	\$0	\$0	
		\$33,410	\$21,500	\$36,000	\$90,910	

Horrigan Price

Pump Wetwell

Items				Material - wire/term/conduit		
ITEM	DESCRIPTION	QTY	Responsible	Qty	Unit	Price
	Pump/Wetwell piping					
Pump.1	Flyte Pumps	1		1	LS	\$ 28,000
Pump.2	Pump Startup	1		1	LS	\$ 3,150
Pump.3		1		1	LS	
Pump.4				1	LS	
Pump.5						
Pump.6						

STUDY No.
DATE 8-Jul-24
ENG'R City #REF!

Labor - Eng/spec/drawing/sup			Totals				Comments
Qty/Unit	Unit	Rate	Equipment	MAT'L	LABOR	Cost	
300	HOURS	\$90	\$28,734	\$28,000	\$27,000	\$83,734	Smart Pump price. 24k for c
	HOURS	\$90		\$3,150	\$0	\$3,150	
	HOURS	\$90		\$0	\$0	\$0	
	HOURS	\$90		\$0	\$0	\$0	
	HOURS	\$90		\$0	\$0	\$0	
				\$0	\$0	\$0	
			\$28,734	\$31,150	\$27,000	\$86,884	

Horrigan Price

other

Piping/valve pit

Items				Material - wire/term/conduit		
ITEM	DESCRIPTION	QTY	Responsible	Qty	Unit	Price
	Valve Pit and Piping					
Pipe.1	6" force Main	1		120	LF	\$ 50
Pipe.2	Valve Pit fittings	1		1	LS	\$ 10,000
Pipe.3	ByPass pumping	1		1	LS	\$ 5,000
Pipe.4				1	LS	
Pipe.5						
Pipe.6						

STUDY No.

DATE 8-Jul-24

ENG'R City

#REF!

Labor - Eng/spec/drawing/sup

Totals

Qty/Unit	Unit	Rate	Equipment	MAT'L	LABOR	Cost	Comments
	HOURS	\$90		\$6,000	\$0	\$6,000	need to check price
32	HOURS	\$90		\$10,000	\$2,880	\$12,880	
64	HOURS	\$90		\$5,000	\$5,760	\$10,760	
	HOURS	\$90		\$0	\$0	\$0	
	HOURS	\$90		\$0	\$0	\$0	
				\$0	\$0	\$0	
			\$0	\$21,000	\$8,640	\$29,640	

Horrigan Price



Finance Committee

Meeting Date: August 6, 2024
Meeting Time: 5:00 PM
Agenda Item No: 4.b
Item Description: Approval/Purchase Portable Bypass Pump
Submitted By: Jeff Demers, Public Works Director/Wastewater

Supporting Information/Documentation:

Godwin CD150S Dri-Prime Isuzu 4LE2X

Key Terms:

Executive Summary:

The City's Public Works Wastewater Department currently owns a 6" Gorman Rupp bypass pump that was purchased in 1998. It is well beyond its life expectancy and worn out. Lack of automated controls and priming because of wear increases set up time, and requires constant in-person monitoring.

Detailed Review:

1. This project has been part of the Public Works/Wastewater Division capital improvement plan for the last several years. The City issued an RFP and received the following bids.

Company	Pump Total
Xylem	\$ 71,483.94
BBA Pumps	\$ 71,908.99
Thompson Pump	\$ 73,019.00
Technology International	\$ 73,650.00
Hayes Pump	\$ 151,800.00

2. In addition to the lump sum cost for the pump, the RFP also requested an itemized list of pump accessories to give us more control and flexibility, including:
 - Pipe and fittings
 - Level controls

- Alarm floats
- Work lights

These accessories will allow us to set up the pump to run unattended, and to send out alarms over cell networks to notify employees of an issue. The accessories add an additional \$6,228.89 to the cost of the pump.

Funding Source:

Staff is requesting \$77,712 from CSO Abatement Work 23CSO01 with an estimated remaining balance of \$1,850,000.

Staff Recommendation:

Staff recommends purchasing the Godwin Dri-prime pump from Xylem to including the listed parts and accessories.

Godwin CD150S Dri-Prime® Pump



The Godwin CD150S Dri-Prime pump is a versatile, general purpose dewatering pump designed for use in the industry's most challenging construction, municipal, industrial and emergency response applications. This rugged pump is ideally suited for tough dewatering jobs, and is the reliable choice for rental solutions.

The CD150S is a member of the Godwin S Series of Smart pumps, equipped with a new generation of Field Smart Technology (FST) for remote monitoring and control. In addition to improved hydraulic efficiency, greater fuel economy, and streamlined serviceability, the CD150S impeller is interchangeable with a Flygt N-Technology non-clog impeller, providing the flexibility to tackle stringy, modern wastewater applications with the same pump.

Specifications

Suction connection	6 in (150 mm) flange
Delivery connection	6 in (150 mm) flange
Max capacity	2290 USGPM (520 m ³ /hr) ¹
Max impeller diameter	11.8 in (300 mm)
Max solids handling	3 in (75 mm)
Max operating temperature	176°F (80°C) ²
Max pressure	91 psi (6.3 bar)
Max suction pressure	58 psi (4.0 bar)
Max casing pressure	138 psi (9.5 bar)
Max operating speed	2200 rpm

¹ Larger diameter pipes may be required for maximum flows.

² Please contact our sales and product support for applications in excess of 80°C (176°F).

Features and benefits

- Interchangeable impellers to tackle a full range of solids handling applications.
- Field Smart Technology (FST) allows the user to monitor & control the pump from anywhere in the world.
- New compressor belt tensioner reduces time to change and adjust belt to approximately 30 minutes.
- New sight glass and measuring stick added to monitor level and quality of mechanical seal oil.
- Improved hydraulic design reduces vibration, maximizes efficiency and fuel economy.
- Diesel Oxidative Catalyst (DOC) technology maximizes available power from diesel engine, and reduces maintenance and downtime.
- Fully automatic priming from dry to 28 ft (8.5 m).
- Venturi priming requires no adjustment or control.
- Available as Open Set or Sound Attenuated Enclosure.
- Standard build engine 4LE2X (EPA Final Tier 4).
- Other engine options available.
- Optional environmentally friendly skid base contains all fluid spills.

Godwin CD150S Dri-Prime® Pump



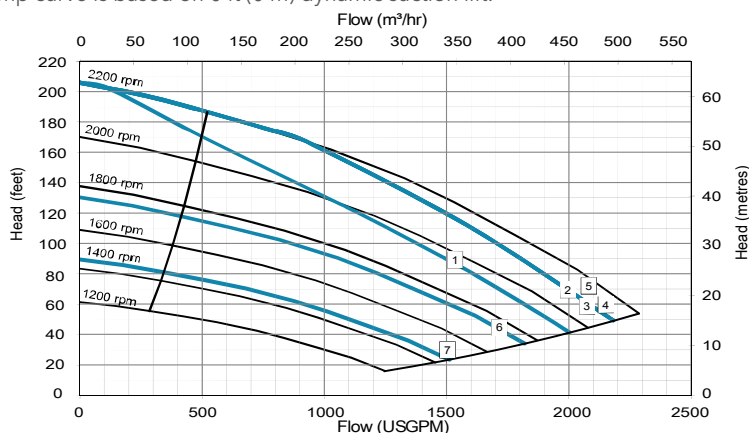
Suction lift table 1800 rpm

Performance data provided in tables is based on water tests at sea level and 68°F (20 °C) ambient.

Total suction head (ft)	Total delivery head (ft)				
	30	43	56	69	82
	Output (USGPM)				
10	1852	1710	1520	1314	1140
15	1789	1646	1441	1251	1061
20	1741	1567	1361	1172	934
25	1678	1425	1251	1061	823

Performance curve

Pump curve is based on 0 ft (0 m) dynamic suction lift.



Materials

Pump casing	Cast Iron BS EN 1561/EN-JL1030
Wearplates	Cast Iron BS1561:1997
Pump shaft	Carbon steel BS970:1991 817M40T
Impeller	Cast Steel BS3100 A5 Hardness to 200 HB Brinell
Mechanical seal faces	Silicon carbide Vs Silicon carbide

Driver options

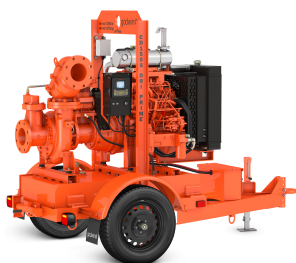
Option	Driver	Power hp (kW)	Energy Use 1800 rpm	Emissions Rating
1	Isuzu 4LE2X	60 (44.8)	2.6 US Gal/hr	EPA FT4
2	JCB TCAE-55	74 (55.2)	3.49 US Gal/hr	EPA FT4
3	John Deere 4045TFC03	74 (55.2)	3.73 US Gal/hr	EPA FT4
4	John Deere 4045T290	74 (57.8)	3.63 US Gal/hr	EPA iT4
5	CAT C4.4M-T	77.5 (57.8)	3.75 US Gal/hr	EPA T3
6	Electric Motor, 4 Pole, 60 Hz	50 (37.3)	59.2 A @ 460V	-
7	Electric Motor, 4 Pole, 50 Hz	40 (29.8)	47.1 A @ 460V	-

Open skidbase trailer mounted

Fuel capacity	60 US Gal (227 L)
Weight dry	2,750 lb (1,250 kg)
Weight wet	3,170 lb (1,440 kg)
Dimensions (L x W x H)	119 in x 66 in x 87 in (3,023 mm x 1,676 mm x 2,210 mm)

Sound attenuated enclosure

Noise @ 7 m (23 ft)	66 dBA
Fuel capacity	80 US Gal (303 L)
Weight dry	3,100 lb (1,410 kg)
Weight wet	3,680 lb (1,670 kg)
Dimensions (L x W x H)	101 in x 43 in x 70 in (2,565 mm x 1,092 mm x 1,778 mm)





Finance Committee

Meeting August 6, 2024

Date:

Meeting 5:00 PM

Time:

Agenda Item 4.c

No:

Item Approval/Purchase of Cellebrite - Computer program to unlock "smart" devices

Description: to aid in investigations.

Submitted Chief JoAnne W. Fisk

By:

Supporting Information/Documentation:

Cellebrite

Key Terms:

Executive Summary:

Approval to purchase Cellebrite "InEYEts" Digital Forensic program to access cell phones as part of official investigations.

Detailed Review:

Cellebrite "InEYEts" is a digital forensic program used to unlock, decrypt and extract digital evidence from the widest range of iOS and Android "Smart" devices. The Biddeford Police Department is requesting authorization to purchase the software to aid in official investigations.

Funding Source:

Funding source is from FY 2025 Criminal Investigations budget in the amount of \$20,911.75 at 21147-60501. The request is under the budgeted amount of \$24,500.

Staff Recommendation:

The Police Department is experiencing an increase in the number of locked smart devices during investigations and currently does not have the tools to unlock and extract data from

these devices. Due to the lack of unlocking tools, the agency is missing out on improving case closure, conviction rates and public trust in resolving cases such as domestic violence, harassment and mental health investigations. Staff recommends authorization to purchase the software.

Cellebrite Inc.
8065 Leesburg Pike,
Suite T3-302
Vienna, VA 22182
USA



Justice Accelerated

Tel. +1 800 942 3415
Fax. +1 201 848 9982
Tax ID#: 22-3770059
DUNS: 033095568
CAGE: 4C9Q7
Company Website:
<http://www.cellebrite.com>

Quote

Quote# Q-401029-1
Date: Jul 01, 2024

Billing Information
City of Biddeford Police
39 Alfred St
Biddeford, Maine 04005
United States

Delivery Information
Jaimes Plamondon
39 Alfred St
Biddeford, ME 04005
United States

Wire To:
Bank Routing Number: 021000021
Account Number: 761020590
Account Name: Cellebrite Inc.

Contact: Jaimes Plamondon
Phone: 2075711690

Contact: Jaimes Plamondon
Phone: 2075711690

Check Remittance (Only for NA):
Cellebrite Inc.,
PO BOX 23551
New York, NY, 10087-3551

End Customer: City of Biddeford Police

Click [here](#) to process with Credit Card payment
By clicking the link above and accepting this quote,
You are expressing your agreement and compliance to and with the terms contained on this quote.

Customer ID	Good Through	Payment Terms	Currency	Sales Rep
SF-00204117	Jul 31, 2024	Net 30	USD	Zachary Perry

Product Code	Product Name	Qty	Start Date	End Date	Serial Number	Net Price\Unit	Net Price
B-CNR-05-001	Inseyets Online Pro	1	Jul 01, 2024	Jun 30, 2025		7,661.44	7,661.44
S-UFD-20-003	Inseyets Pro UFED Subscription	1	Jul 01, 2024	Jun 30, 2025		0.00	0.00
S-UFD-20-006	Inseyets Pro PA Subscription	1	Jul 01, 2024	Jun 30, 2025		0.00	0.00
F-KAS-00-001	UFED Dongle Kit	1				0.00	0.00
F-KAS-05-000	Inseyets Kit	1				0.00	0.00
S-AIS-20-001	Inseyets Online Limited Unlocks subscription	15	Jul 01, 2024	Jun 30, 2025		250.77	3,761.55
B-TRN-03-040	In-Person/Virtual CCO +CCPA Inseyets (5 days)	2				3,385.35	6,770.70
U-TRN-02-118	In-Person/Virtual (CCO) - Cellebrite Certified Operator Inseyets (2 days)	2	Jul 01, 2024	Jun 30, 2025		0.00	0.00
U-TRN-02-119	In-Person/Virtual (CCPA) - Certified Physical Analyst Inseyets (3 days)	2	Jul 01, 2024	Jun 30, 2025		0.00	0.00
U-TRN-03-038	In-Person/Virtual (CCPO) - Cellebrite Certified Premium Operator (2 days)	2	Jul 01, 2024	Jun 30, 2025		1,316.53	2,633.06

SubTotal	USD 20,826.75
Shipping & Handling	USD 85.00
Sales Tax	USD 0.00
Total	USD 20,911.75

Comments:

Terms and Conditions:

- This Quote/Proforma Invoice/Tax Invoice, together with the terms and conditions and license agreement listed below that are incorporated by reference to this Quote/Proforma Invoice (together, the "Agreement"), constitute an offer by Cellebrite. By signing this the Quote/Proforma Invoice, issuing a purchase order (or other ordering document) in connection with this the Quote/Proforma Invoice, or downloading and/or using the products identified in this the Quote/Proforma Invoice/Tax Invoice, the customer agrees to be bound by the terms of this Agreement. Any additional or different terms or conditions contained in any customer document, purchase order or other ordering document will not be binding upon Cellebrite unless expressly accepted in a document signed by a Cellebrite authorized signatory.

- Quote is subject to regulatory approval.

- Freight Terms: FCA (NJ)

- Limited Warranty: Hardware:12 Months; Software:60 days; Touch Screen:30 days

- General: The following terms shall apply to any product at <http://legal.cellebrite.com/us/index.html>

- EULA: All Cellebrite Software is licensed subject to the end user license agreement available at <https://legal.cellebrite.com/End-User-License-Agreement.html>

- Advanced Services (CAS): The following terms apply to Cellebrite Advanced Services at <https://legal.cellebrite.com/CB-us-us/index.html>

- Premium: The following terms shall apply only to Cellebrite Premium at <http://legal.cellebrite.com/intl/PremiumUS.htm>

- Pathfinder: The following terms apply to Cellebrite Pathfinder at <https://legal.cellebrite.com/PF-Addendum.htm>

- Training Services: The following terms apply to Cellebrite Training Services at <http://legal.cellebrite.com/intl/Training.htm>

- SaaS: The following terms apply to Cellebrite SaaS Services at <https://legal.cellebrite.com/SaaS.htm>

- Endpoint SaaS: The following terms apply to Cellebrite Cellebrite Endpoint SaaS at <https://legal.cellebrite.com/Endpoint-SAAS.html>

In the event of any dispute as to which terms apply, Cellebrite shall have the right to reasonably determine which terms apply to a given purchase order.

Please indicate the invoice number when remitting payment

*SALES TAX DISCLAIMER: Cellebrite Inc. is required to collect Sales and Use Tax for purchases made from the following certain U.S. States. Orders are accepted with the understanding that such taxes and charges shall be added, as required by law. Where applicable, Cellebrite Inc. will charge sales tax unless you have a valid sales tax exemption certificate on file with Cellebrite Inc. Cellebrite Inc. will not refund tax amounts collected in the event a valid sales tax certificate is not provided. If you are exempt from sales tax, you must provide us with your sales tax exempt number and fax a copy of your sales tax exempt certificate to Cellebrite Inc.

Please include the following information on your PO for Cellebrite UFED purchase:

- Please include the ORIGINAL QUOTE NUMBER (For example - Q-XXXXX) on your PO

- CONTACT NAME & NUMBER of individual purchasing and bill to address

- E-MAIL ADDRESS of END USER for monthly software update as this is critical for future functionality

I, the undersigned, hereby confirm that I am authorized to sign this Quote/Proforma Invoice on behalf the customer identified above , and I hereby approve that my signature is legally binding upon the customer identified above.

Customer Name: City of Biddeford Police

Signature: _____

Effective Date: _____

Name (Print): _____

Title: _____

Please sign and email to Zachary Perry at zach.perry@cellebrite.com



Finance Committee

Meeting Date: August 6, 2024
Meeting Time: 5:00 PM
Agenda Item No: 4.d
Item Description: Approval/Lead Bid - 154 Cleaves St.
Submitted By: Gail Wilkerson, Director, Housing Rehab Programs

Supporting Information/Documentation:

BID TAB 154 CLEAVES ST, ORDER 2024.131 Approval Lead bid--154 Cleaves St

Key Terms:

HUD: US Department of Housing & Urban Development

IFB: Invitation for Bid

Executive Summary:

Housing Office staff recommends the award of IFB# 2024-07-18-01-LEAD, for required lead hazard-reduction work at 154 Cleaves St, be made to contractor Ray Corp of Lewiston in the amount of \$64,925 from the City's Lead Hazard Reduction and Healthy Homes Grant.

Detailed Review:

Housing Office staff recommends the award of IFB# 2024-07-18-01-LEAD, for required lead hazard-reduction work at 154 Cleaves St, be made to contractor Ray Corp of Lewiston in the amount of \$64,925 from the City's Lead Hazard Reduction and Healthy Homes Grant.

This 2-unit property was inspected for lead and other health/safety hazards earlier this year. Many of the interior lead hazards will be encapsulated with a lead-blocking compound and cleaned of lead dust. The work scope for the front porch common area involves enclosing leaded portions of the ceiling, walls, floors, and stair risers with like-kind material, while newel posts, balusters, and stair treads will be removed and replaced. There are deteriorated non-leaded portions of the front and back porches and exterior of the structure and garage that also need to be addressed. Most of the non-lead work involves reinforcing deteriorated building components and replacing a portion of the back porch stairway. The low bid for this work is from Ray Corp for \$64,925. The contractor, whose work is well known to the Housing Rehab Programs, expects to begin the project in September and finish in 6 weeks.

Ray Corp submitted the lowest bid, which is within 10% of the City's independent cost estimate.

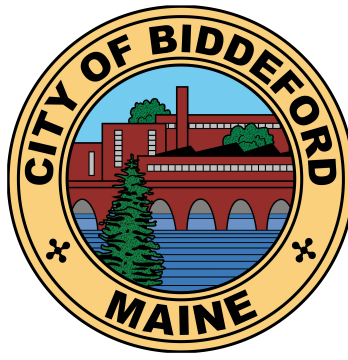
Investment in this property not only addresses health and safety hazards, but it also helps assure one of the units is available to a household at no more than 50% of the area median income (AMI) and the other to a household at no more than 80% AMI for three years following the project's completion.

Funding Source:

This project is 100% funded by the City's HUD Lead Hazard Reduction & Healthy Homes Grant.

Staff Recommendation:

Housing Office staff recommend awarding the bid for the project at 154 Cleaves St to Ray Corp for \$64,925.



Bid Summary: IFB# 2024-07-18-01-LEAD
Lead Hazard Reduction & Healthy Homes Work at
154 Cleaves St., Biddeford, ME

of Eligible Units: 2
Bid Notice Date: 7/18/2024 4:00 PM
Bid Open Date: 7/30/2024 2:00 PM
Bid Open Attendees: Gail Wilkerson, Mike Koerner, City of Biddeford.

Scope of Work 154 Cleaves St	Octagon Restoration Windham	Ray Corp Lewiston	City Independent Cost Estimate
Lead Work	\$ 54,175.00	\$ 47,725.00	\$ 40,700.00
Healthy Homes	\$ 22,900.00	\$ 17,200.00	\$ 18,100.00
Bid Totals	\$ 77,075.00	\$ 64,925.00	\$ 58,800.00

Recommendation: **Award to Ray Corp of Lewiston**

Signature:

Gail Wilkerson, Director, HUD Housing Programs



Street View, 154 Cleaves St., Biddeford

City of Biddeford



2024.131 IN BOARD OF CITY COUNCIL... August 6, 2024
BE IT ORDERED, that the award for the HUD Lead Hazard Reduction & Healthy Homes project at 154 Cleaves Street, as detailed in IFB# 2024-07-18-01-LEAD, be awarded to Maine-licensed abatement contractor Ray Corp of Lewiston, Maine in the amount of \$64,925.00. Work is projected to begin September 2024 and conclude in 6 weeks. Contractor has satisfactorily performed this work for the City's Housing Rehab Programs and is a firm in good standing with the Maine Department of Environmental Protection and the federal government, as confirmed by a check of the System for Award Management (sam.gov) on 7/30/24.

Attest by: _____