

**Town of Eliot, ME**  
**Kings Highway and Main Street Pump Station Upgrade**

**Project Update (12/13/16)**  
**Prepared by Underwood Engineers**

**1. Proposed Project Schedule**

- |   |                    |
|---|--------------------|
| • Execute Design Contract (ESR#23) - <b>COMPLETED</b> | September 23, 2016 |
| • Design Kick-off Meeting - <b>COMPLETED</b>          | November 29, 2016  |
| • MDEP Environmental Review – <b>IN PROGRESS</b>      | January 27, 2017   |
| • SRF Application - <b>IN PROGRESS</b>                | January 27, 2017   |
| • 60% Design Documents – <b>IN PROGRESS</b>           | January 27, 2017   |
| • 90% Design Documents for MDEP/Town Review           | February 28, 2017  |
| • Cadastral (by Town)                                 | February 28, 2017  |
| • MDEP/Town Design Approval                           | March 15, 2017     |
| • 100% Stamped Design Documents                       | March 31, 2017     |

The following work to be undertaken under separate Engineering Services Request (ESR) for Construction Engineering schedule is tentative:

- |   |                |
|---|----------------|
| • Execute Construction Engineering Contract         | March 1, 2017  |
| • Public Request Pre-Qualification from Contractors | March 1, 2017  |
| • Pre-Qualification from Contractors Due            | March 24, 2017 |
| • Notify Pre-Qualified Contractors                  | April 7, 2017  |
| • Request Bids (from Pre-Qualified Contractors)     | April 17, 2017 |
| • Receive Bids (from Pre-Qualified Contractors)     | May 17, 2017   |
| • Award Project (Select Board Award 5/18)           | May, 2017      |
| • Start Construction                                | June, 2017     |
| • Asset Management Plan                             | July, 2017     |
| • Project Substantial Completion                    | Dec, 2017      |

**2. Project Funding**

- SRF application will be made to Maine Municipal Bond Bank. The application will need to be completed by the Town and Underwood Engineers and requires the following:
  - Davis Bacon Wage Rates – Underwood Engineers will include clauses in the contract documents that require the contractor to provide certified payrolls and supporting documentation during the construction phase.
  - WBE/MBE – Underwood Engineers will include clauses in the contract documents that require the contractor to use disadvantage, minority or women business enterprises for suppliers or subcontractors.

- American Iron and Steel – Underwood Engineers will include clauses in the contract documents and requires the contractor to provide certification of materials.
- Fiscal Sustainability Plan – This is an asset management plan of the Towns sewer infrastructure that is required as part of the SRF submission.
- Cost & Effectiveness Analysis – Standard engineering practice done as part of the design process.
- Environmental Review – A separate report to be prepared by Underwood Engineers required by MDEP to determine the impact the proposed upgrade for the pump stations will have on the environment. If no impact the project may qualify for a categorical exclusion or finding of no significant impact which is anticipated.

### **3. Project Construction**

- Town to consider the option of a pre-qualification process to select Contractors to bid the project. MDEP will accept the pre-qualification of contractors, providing the Town use a defined process.
- Town may wish to consider pre-purchase of the pumps to reduce lead times ahead of awarding the construction project. MDEP will accept the pre-purchase of pumps so long as the Town went out to competitively bid the pumps. For pre-purchase based on sole source or sole source of the pumps then the MDEP will require a waiver with justification to be applied for.
- Underwood Engineers recommends an allowance be included in the bid documents to expedite the handling of unforeseen conditions during construction.

### **4. Easements**

The following easements are required:

- Easement at 109 Pleasant Street (Lot 130) for realignment of road at the Kings Hwy PS.
- Temporary easement for dewatering at Main Street PS. Existing catch basin and drain at pump station maybe used for dewatering from excavation. The Towns environmental consultant (Integrated Environmental Engineering) will review the dewatering plan for compliance to the Towns MS4 permit with MDEP and provide comments as necessary.

### **5. Permits**

The following permits are anticipated:

- Town Planning Board – Not Required.
- Town Building & Electrical Permits (by Contractor). Town building permit no fee.
- Maine Electrical Permit
- Town permit for discontinuous of section of roadway with intersection and re-alignment of intersection at Pleasant Street and Main Street at the Kings Hwy PS.
- Erosion & Sediment Control (SWPPP). Town's environment consultant will review.

- Maine DOT Entrance Permit.
- Maine DOT Highway Opening Permit
- Maine DOT Utility Location Permit
- Kittery Permit (TBD).

## **6. Pump Station Design**

Consistent with the preliminary design the project includes the following:

### **Kings Highway Pump Station**

- New building sized for two (2) new replacement pumps plus space for a future third pump including wall mounted control panel, HVAC and diesel generator.
- Cast-in place concrete wall foundation.
- Building to be CMU wall construction.
- Shingles / Shakes cement siding to exterior of CMU wall construction.
- Interior CMU wall painted.
- Wood truss roof with Architectural fiberglass asphalt shingle tiles.
- FRP doors (single / double)
- Propane heat.
- Ventilation tied to motion sensor.
- Potable water (hot & cold) for sink and interior and exterior hose bibbs.
- New access gates (metal).
- Wall mounted pump manufacturers standard stainless steel control panel with VFD drives.
- New catch basin to inlet of drain at Lot 126.
- Bypass structure cover to be raised to ground elevation.
- Replace / upgrade drainage in front of pump station. Project from Pleasant Street re-aligned intersection to outfall at proposed discontinued intersection.
- Re-use existing wet well.

### **Main Street Pump Station**

- New building sized for two (2) new replacement pumps including new wall mounted control panel, HVAC, diesel generator and storage space.
- Building to be CMU wall construction.
- Horizontal Lapboard cement siding to exterior of CMU wall construction.
- Interior CMU wall painted.
- Wood truss roof with Architectural fiberglass asphalt shingle tiles.
- Cast-in place concrete frost wall foundation with slab on grade.
- FRP doors (double).
- Propane heat.

- Ventilation tied to motion sensor.
- Potable water for sink (hot and cold) and interior and exterior hose bibbs.
- Wall mounted pump manufacturers standard stainless steel control panel with VFD drives.
- New below grade concrete wet well.
- Fix drainage for the adjacent Lot #42, new swale and catch basin.
- Decommission Existing Pump Station.

#### General

- Town may wish to repurpose existing equipment to construct a mobile by-pass pump.