June 10, 2019

SUBJECT: FAP Route 332A (IL 1) & FAP Route 649 (IL 17)

Section (107)PS-3 & (2SB-FAGH)PS-1

**Iroquois & Livingston Counties** 

Contract No. 66J68

Item No. 250, June 14, 2019 Letting

Addendum A

#### NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

- 1. Revised the Table of Contents to the Special Provisions.
- 2. Revised pages 39 and 171 of the Special Provisions.

Prime contractors must utilize the enclosed material when preparing their bid and must include any changes to the Schedule of Prices in their bid.

Very truly yours,

Jack A. Elston, P.E.

Bureau Chief, Bureau of Design and Environment

By: Ted B. Walschleger, P. E.

Ted Jalubye AE.

**Engineer of Project Management** 

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## Warranty.

- A. The manufacturer shall warrant the units being supplied to the Owner against defects in workmanship and materials for a period of two (2) years.
- B. The Contractor shall warrant the units being supplied to the Owner for a period of two (2) years.

#### **Known Manufacturers.**

A. KSB

#### Submersible Pumps.

## A. General Design Criteria

- 1. The pumps shall be capable of handling raw sewage, shall be capable of passing 3-inch spherical solids and shall comply with design criteria as indicated in SUBMERSIBLE PUMP SCHEDULE at the end of this Section. All submersible pumps shall be by the same manufacturer. All major parts, such as the stator casing, oil casing, sliding bracket, volute and impeller shall be of gray iron. All surfaces coming into contact with sewage shall be protected by a coating resistant to sewage. All exposed bolts and nuts shall be of stainless steel.
- 2. Pump shall be designed for use in a dry pit application. Provisions shall be included so that the pump and motor will maintain proper cooling.
- 3. Pump case: Cast iron, ASTM A-48, Class 35B C.I.
- 4. Motor housing: Cast iron, ASTM A-48, Class 35B C.I.
- 5. Equipment shall be Class I, Div 2 Group D Explosion Proof

#### B. Impeller

1. The impeller(s) shall be Hard-Iron (ASTM A-532 (Alloy III A) 25% chrome cast iron) or gray cast iron, Class 35B. Impellers shall be dynamically balanced, double shrouded non-clogging design having a long throughlet without acute turns. The impellers shall be capable of handling solids, fibrous materials, heavy sludge and other matter found in wastewater. A multi-vane, not vortex, impeller shall be used for maximum hydraulic efficiency. Mass moment of inertia calculations shall be provided by the pump manufacturer upon request. Impellers shall be keyed to the shaft, retained with an Allen head bolt and shall be capable of passing a minimum 3-inch diameter solid. Impellers shall be coated with an alkyd resin primer or acrylic dispersion zinc phosphate primer.

#### C. Pump Shaft

1. Pump and motor shaft shall be the same unit. The pump shaft shall be an extension of the motor shaft. Couplings shall not be acceptable. The shaft shall be stainless steel – ASTM A479 S43100-T or A276 Type 420 Stainless Steel and shall be completely isolated from the pumped liquid.

Revised 6-10-2019

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Any costs associated with providing weekly DBE trucking reports shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed.

#### MATERIAL OR EQUIPMENT SUPPLIERS AND MANUFACTURERS

When possible, known suppliers or manufacturers of materials and equipment have been included within these special provisions. In the event that the Contractor discovers other suppliers/manufacturers that meet or exceed the specifications/requirements as stated herein, the Contractor may elect to utilize the supplier or manufacturer with the written approval from the Engineer.