



## RIEVE FIRE PROTECTION

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### FIRE PROTECTION PROPOSAL

**CUSTOMER:**

Bethel Board of Education  
1 School St, Bethel CT 06801

**PROJECT LOCATION:**

Berry Elementary School  
200 Whittlesey Dr, Bethel, CT 06801

**PROPOSAL DATE:** 01/12/2024

**PROJECT NUMBER:** 0124-2a

**PROJECT DESCRIPTION:** Berry School Electric Fire Pump Replacement

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**PROPOSED SCOPE OF WORK:**

Labor and material necessary to replace existing electric fire pump that is at end-of-life to correct performance deficiencies and electric code violations. Electric power requirements of newly installed equipment will be identical to original equipment to allow for replacement without requiring a review of the available capacity from the existing utility service connection or onsite stand-by generator. Price does not include PE stamped electrical drawings if required for town permit approval. If necessary, these plans can be provided for an additional fee. Work performed will be in accordance with NFPA 20-2022 standard for the installation of fire pumps and NFPA 70-2020 National Electrical Code-Article 695.

New fire pump package to include one 25-horsepower electric vertical inline fire pump, one 1-horsepower electric jockey pump, one UL listed combination fire pump controller and automatic transfer switch, and one UL listed jockey pump controller. New electric pumps and controllers to be 460-volt to match existing.

**MECHANICAL SCOPE OF WORK:**

Will disconnect existing vertical inline primary fire pump and associated jockey pump at flanged connections. Existing supply and discharge piping and shut-off control valves will remain in place to be re-used. Each pump will be provided with a new downstream check valve, and new ½" pressure sensing lines will be installed from each pump check valve to their respective electric controllers in accordance with NFPA 20. After installation, the new pump will be flow tested and commissioned by a representative of the fire pump manufacturer. New initial field test data and commissioning reports will be provided for permanent records.

**ELECTRICAL SCOPE OF WORK:**

Will disconnect and remove existing fire pump controller, jockey pump controller, and separately mounted fire pump transfer switch. Will remove and replace feeder conductors in underground conduit from primary overcurrent protection device on building exterior to fire pump room. Scope of work to begin at existing 400-amp primary overcurrent protection device which will remain and be re-used. Secondary overcurrent protection device in fire pump room is not allowable per code and will be removed. New junction box will be provided in place to allow for tap connection for power wiring to jockey pump controller. New fire pump and jockey pump controllers to be mounted to room walls, and new conduit and wiring will be installed to new pumps. All new wiring will be provided above ground, and any unnecessary underground conduit will be closed with threaded plugs and abandoned in place.

Existing secondary power supply provided by stand-by generator will be reconnected to new combination controller-transfer switch. Scope of work to begin at existing disconnect switch in fire pump room which will remain and be re-used. New conduit and wiring for generator will be provided for re-connection work in fire pump room only and excludes any new wiring from pump room to exterior generator location. Proposal does not include any work on generator if necessary. Owner may be required to have the generator service company provide assistance during final testing and commissioning of fire pump.

Price excludes CT sales tax for municipal entity. Price excludes prevailing wage rates for repair work totaling less than \$100,000.00

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