PROJECT DESCRIPTION

Upper Providence Township Sewer Authority: Bortondale Pump Station Backup Generator

Project Description For Water, Sewer, and Storm Sewer Projects provide a description of the project which discusses all of the following:

Exhibit 1: Project Description

a. ***A clear, concise and focused description of the proposed project to include specific project activities and expected results;***

Project Overview

The proposed project involves the acquisition and installation of a new backup generator to support uninterrupted operations at the Bortondale Regional Pump Station, a critical component of the regional wastewater conveyance system. The project includes procurement of the generator unit, associated electrical and mechanical hookups, site preparation, testing, and commissioning.

The primary objective is to ensure reliable power redundancy during utility outages, thereby protecting public health, safeguarding infrastructure, and preventing wastewater overflows. Upon completion, the pump station will be equipped with a modern, code-compliant emergency power system capable of maintaining full operational capacity independent of the electrical grid.

Expected results:

- **Continuous pumping operations during power outages**
- **Reduced risk of environmental spills and regulatory violations**
- **Increased resilience of wastewater infrastructure**
- **Improved service reliability for residents and businesses in the Bortondale service area**

Project Location

b. **The specific location of the project site;**

See link to the project site: https://www.google.com/maps/@39.9052083,-75.3966403,191m

The project will occur on-site at:

Bortondale Regional Pump Station
269 East Knowlton Road
Media, PA 19063

All activities will take place entirely within the existing footprint of the pump station property.

C. As applicable, identification of the project as a priority investment in a local or regional economic development plan or strategy;

Alignment with Local/Regional Priorities

This project aligns with regional infrastructure resilience priorities outlined in local municipal planning documents and countywide hazard mitigation strategies. Maintaining essential utility functions during emergencies is identified as a priority investment in regional planning efforts. The project supports broader goals related to:

- **Infrastructure modernization**
- **Environmental protection and watershed management**
- **Emergency preparedness and operational continuity**

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d. Anticipated Economic Development and Community Impact

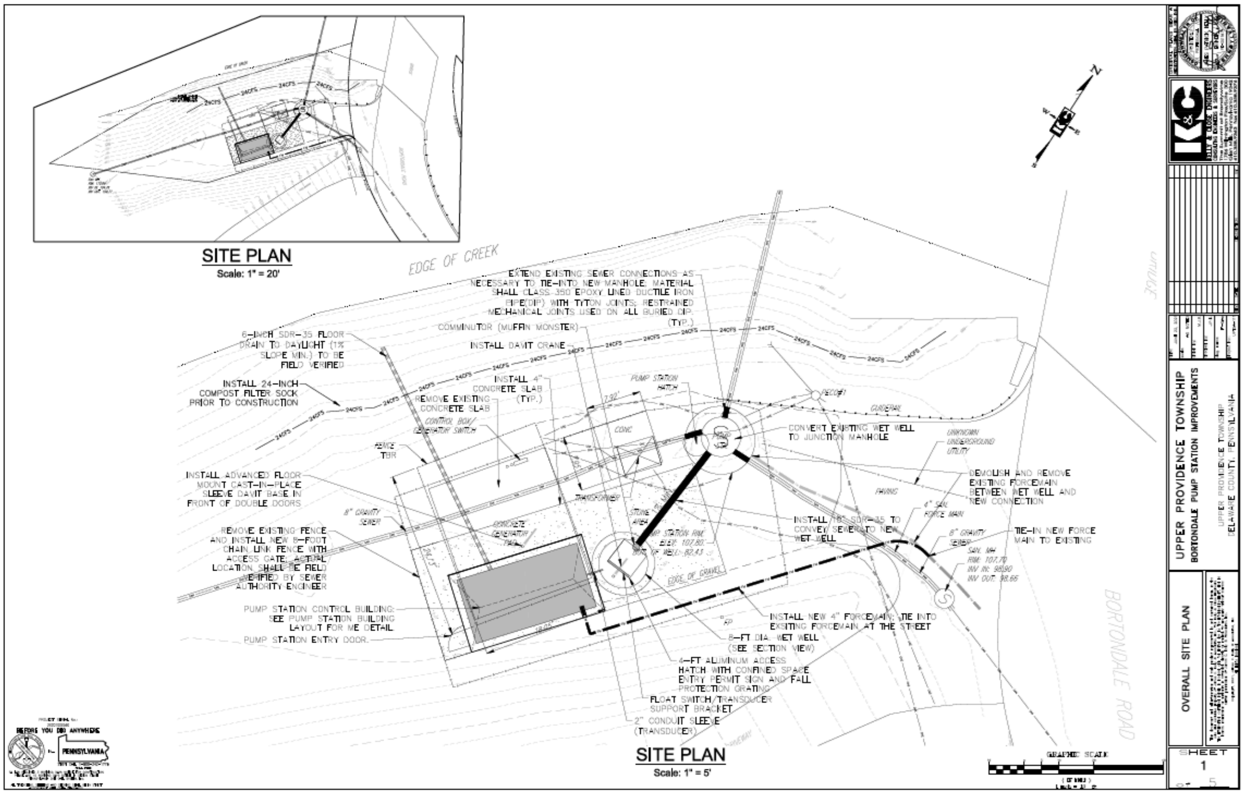
Although the primary purpose is infrastructure reliability, the project has meaningful secondary benefits for the community and local economy by:

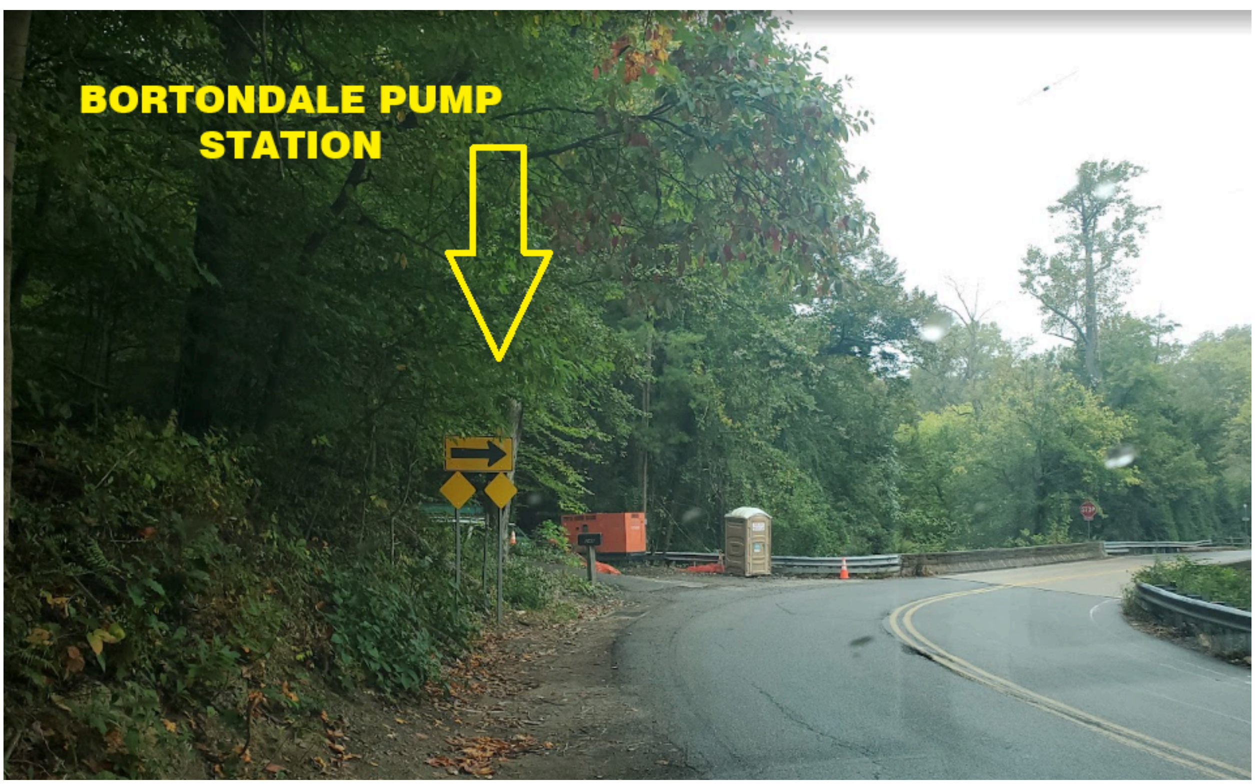
- **Preventing costly service disruptions that impact local households and businesses**
- **Avoiding environmental cleanup costs associated with wastewater overflows**
- **Enhancing confidence in municipal infrastructure, which supports sustained regional growth**
- **Reducing long-term maintenance and emergency-response expenditures**

Reliable wastewater infrastructure is foundational to community development and contributes to a stable environment for residential and commercial investment.

Mapping Requirements

e. A detailed color-coded map is not required for this project because the request pertains to the purchase and installation of equipment at a single existing facility. However a location map is provided below:


SITE PLAN
Scale: 1" = 20'
EDGE OF CREEK
EXTEND EXISTING SEWER CONNECTIONS AS NECESSARY TO TIE-INTO NEW MANHOLE. MATERIAL SHALL CLASS 350 EPOXY LINED DUCTILE IRON PIPE(DIP) WITH TYTON JOINTS. RESTRAINED MECHANICAL JOINTS USED ON ALL BURIED DIP. (TYP.)
COMMINUTOR (MUFFIN MONSTER)
INSTALL DAVIT CRANE
6-INCH SDR-35 FLOOR DRAIN TO DAYLIGHT (1% SLOPE MIN.) TO BE FIELD VERIFIED
INSTALL 24-INCH COMPOST FILTER SOCK PRIOR TO CONSTRUCTION
INSTALL 4" CONCRETE SLAB (TYP.)
REMOVE EXISTING CONCRETE SLAB
PUMP STATION HATCH
CONVERT EXISTING WET WELL TO JUNCTION MANHOLE
DEMOLISH AND REMOVE EXISTING FORCEMAIN BETWEEN WET WELL AND NEW CONNECTION
INSTALL ADVANCED FLOOR MOUNT CAST-IN-PLACE SLEEVE DAVIT BASE IN FRONT OF DOUBLE DOORS
REMOVE EXISTING FENCE AND INSTALL NEW 8-FOOT CHAIN LINK FENCE WITH ACCESS GATE. ACTUAL LOCATION SHALL BE FIELD VERIFIED BY SEWER AUTHORITY ENGINEER
INSTALL 8" SDR-35 TO CONVEY SEWER TO NEW WET WELL
TIE-IN NEW FORCE MAIN TO EXISTING
PUMP STATION CONTROL BUILDING: SEE PUMP STATION BUILDING LAYOUT FOR ME DETAIL
PUMP STATION ENTRY DOOR
INSTALL NEW 4" FORCEMAIN; TIE INTO EXISTING FORCEMAIN AT THE STREET
8-FT DIA. WET WELL (SEE SECTION VIEW)
4-FT ALUMINUM ACCESS HATCH WITH CONFINED SPACE ENTRY PERMIT SIGN AND FALL PROTECTION GRATING
FLOAT SWITCH/TRANSDUCER SUPPORT BRACKET
2" CONDUIT SLEEVE (TRANSDUCER)
BORTONDALE ROAD
SITE PLAN
Scale: 1" = 5'
GRAPHIC SCALE
UPPER PROVIDENCE TOWNSHIP
BORTONDALE PUMP STATION IMPROVEMENTS
UPPER PROVIDENCE TOWNSHIP
DELAWARE COUNTY, PENNSYLVANIA
OVERALL SITE PLAN
SHEET
1
PENNSYLVANIA


BORTONDALE PUMP STATION
STOP

Pump House Equipment

F. Estimated Project Timeline

Activity	Estimated Date
Project Start / Eligible Costs Begin	**From Grant Agreement Date: 2 months.**
Procurement of Generator Equipment	**From Grant Agreement Date: 6months.**
Delivery & Site Preparation	**From Grant Agreement Date: 9 months.**
Installation & Commissioning	**From Grant Agreement Date: 10 months.**
Project Completion / Final Costs	**From Grant Agreement Date: 12 months.**

The full project is anticipated to be completed within 9–12 months from the initiation of funding.