

**DIVISION I - GENERAL REQUIREMENTS**

SECTION 01000

SCOPE

PART 1: GENERAL

1.01 PROJECT SCOPE

- A. Work under these Contracts covers the furnishing of all labor, material, plant, utilities, and services required for the construction of the McCandless Township Sanitary Authority Pine Creek Wastewater Treatment Plant Improvements - Phase I. The project is located in Hampton Township, Allegheny County, PA. The work under Contracts 2021-109 and 2021-110 consists of, but is not limited to the following:
1. All site work and yard piping installation required to accommodate the proposed improvements.
  2. All electrical construction and equipment installation required to facilitate the operation of the proposed improvements.
  3. All temporary construction measures required to facilitate the construction and operation of the proposed improvements.
  4. All temporary pumps, pipes, etc., required to maintain piped process and utility systems required to maintain operation of the WWTP.
  5. The installation of all required special foundations for all proposed structures.
  6. Demolition of the existing process air blowers and installation of new process air blowers building serving the existing and proposed process basins, complete with all appurtenances thereto.
  7. Modifications of the existing influent channels.
  8. Modifications and demolition of existing piping and the installation of new piping in the existing pipe tunnels.

9. Construction of new aeration basins, flow splitting box, and pipe tunnels that will house piping and equipment to support the new processes.
10. Construction of a new flow mixing box and flow splitting box, complete with appurtenances thereto.
11. Demolition of existing secondary clarifier sludge collection equipment inclusive of vacuum assisted traveling bridges and air lifts and associated piping.
12. Secondary clarifier structural modifications to install new secondary clarifier walls and sludge hoppers.
13. Installation of new secondary clarifier sludge collection equipment inclusive of return sludge pumps.
14. Replacement of secondary clarifier scum pumps.
15. Demolition of the Demolition/conversion of a chlorine contact tank for construction of a new Ultraviolet (UV) Disinfection channel, effluent flume and outfall structures complete with and all protective structures and appurtenances thereto.
16. Demolition of a chlorine contact tank.
17. Demolition of the existing chlorine feed piping.
18. Conversion of existing aeration basins to aerobic digester service inclusive of sludge pumps and piping.
19. The installation of all HVAC equipment for the proposed and modified structures as identified on the contract drawings and herein these specifications.
20. The installation of new piping, yard hydrants and hose bibs comprising an expanded effluent water system to complement the existing system.

21. The installation of new sub feed electric service for new motor control centers coordinated with the existing and proposed yard piping.
22. The installation of a new underground, concrete encased electrical duct bank system throughout the project site. The system includes concrete electrical manholes.
23. The installation of a new supervisory control and data acquisition (SCADA) system that consists of interconnected process control equipment to new computer servers to allow complete monitoring and control of the WWTP. Equipment includes PLCs, PCs, Ethernet switches, fiber optic cables and connectors, Category 6 cabling, and appurtenances thereto. An existing SCADA system shall be integrated into and made part of the new SCADA work. All SCADA equipment and hardware are part of the contract work. SCADA programming shall not be included. The Owner and the Owner's system integrator will perform the programming.
24. The installation of all process instrumentation and all custom controls required to facilitate the construction and operation of the proposed improvements.

PART 2: PRODUCTS

- A. Not used.

PART 3: EXECUTION

- A. Not used.

**End of Section**

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