

**SECTION XXXXXX  
SOUND ENCLOSURE**

**PART 1 - GENERAL**

**1.01. DESCRIPTION**

- A. This section includes materials, installation, and testing of an acoustical enclosure for a booster pump station.

**1.02. SUBMITTALS**

- A. Submit shop drawings in accordance with the General Conditions.
- B. Submit dimensional drawings.
- C. Submit manufacturer's catalog data and detail drawings showing all pump parts and describe by material of construction specification (such as AISI, ASTM, SAE, or CDA) and grade or type. Show linings and coatings. Color to be selected by Owner.
- D. Submit manufacturer's catalog data and installation drawing.
- E. Submit certified testing data indicating sound absorption and transmission loss characteristics of the panel assembly.

**PART 2 - MATERIALS**

**2.01. MANUFACTURER**

- A. Acoustical enclosure shall be eNoise Control or equal.

**2.02. ENCLOSURE DESIGN**

- A. Acoustical Panel Enclosures shall be insulated double-wall construction and shall be provided as indicated on drawings by a recognized manufacturer with published standards of construction and technical performance. The manufacturer shall have produced a standard factory-fabricated panel system and components for at least 10 years. Performance of the fabricated and installed system shall conform to all specifications listed herein.
- B. All panels and their components shall be pre-fabricated, sectional, all metal-clad, modular and designed for easy and accurate field assembly. The panels and components shall not be susceptible to damage due to extended exposure to vibration, air temperature or humidity with the passage of time.
- C. All accessory trim items shall be of 18 ga. minimum galvanized steel and shall be furnished in factory-standard lengths to be field cut to specified dimensions. Location and quantity of sheet metal screws and trim requirements shall be in accordance with the manufacturer's installation details.
- D. Wall and ceiling panel construction shall be rated STC 40 minimum construction consisting of, insulation 22-gauge perforated inner skin and a 16-gauge solid outer skin.
- E. Enclosure shall be equipped with opening doors to make easy access for repair and replacing pumps, valves, fittings, etc.
- F. One 36" x 96" high STC 40 panel style door piano hinges and a lockable freezer type latch with mushroom style push rod to open from the inside shall be provided.

- I. One roof mounted (XXXX) cfm ventilation unit to remove heat load from a (XX) HP motor driven pump.
- J. Silencers shall be provided to accommodate (XXXX) CFM airflow mounted on side walls of building.
- K. Roof load capability shall be minimum 34 psf.
- L. All materials shall be factory powder coated a single standard color.
- M. Opening shall be provided for electrical conduits and pipes, and all other equipment as indicated on the drawings.

**PART 3 - EXECUTION**

**3.01. INSTALLATION**

- A. Installation shall be done in accordance to manufacturer recommendations
- B. A manufacturer's representative shall be present during the installation of the sound enclosure.
- C. Base channel shall be installed on a level and structurally sound surface.
- D. All external panel connectors, trim items, accessories, base channel/panel interfaces/base channel/floor interfaces, and other sections shall be sealed with an acoustical sealant that shall not harden and prevent disassembly in the future.

END OF SECTION