

SECTION 11176
INLET FLOOR CONES

PART 1 - GENERAL

1.1 SUMMARY

- A. Pump manufacturer to provide four Inlet Floor Cones, one for each of the three new pumps and one for the existing pump to remain in place.
- B. Inlet Floor Cone design to be certified by a nationally recognized Hydraulics Testing Laboratory.

1.2 QUALITY ASSURANCE

- A. Referenced Standards:
 - 1. ASTM International (ASTM):
 - a. A572/A572M, Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Structural Steel.
 - 2. The Society for Protective Coatings/ NACE International (SSPC/ NACE):
 - a. SP 5/ NACE No. 1, White Metal Blast Cleaning

1.3 SUBMITTALS

- A. Provide a certified drawing including dimensions, weight, welding requirements, material designations, material thicknesses and flange details for review with pump submittal.

PART 2 - PRODUCTS

- A. Manufacturers:
 - 1. Flow Optimizers, LLC.
 - 2. Engineer Approved Equal.
- B. Materials:
 - 1. Baseplate: 316L Stainless Steel, minimum 1/4 IN thick.
 - 2. Cone: 316L Stainless Steel, minimum 1/4 IN inch thick.
- C. Design Criteria:
 - 1. Diameter: 32 IN.
 - 2. Height: 7 IN.
 - 3. Triangles: 8.
 - 4. Straightening vanes: 4.
 - 5. Baseplate: 36 x 36 IN.
 - 6. Anchor Bolt Size & location:
 - a. Location: Four holes in corners – 1 IN from edge.
 - b. Holes: 9/16 IN DIA to accommodate 1/2 IN inch Anchor.
 - 7. All joints to be fully welded with no air gaps.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Preparation of installation surface and installation per manufacturer instructions.

END OF SECTION