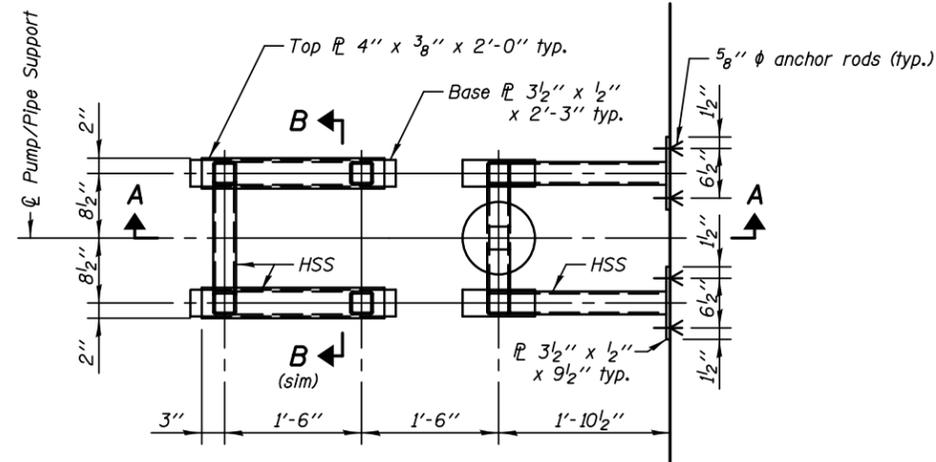
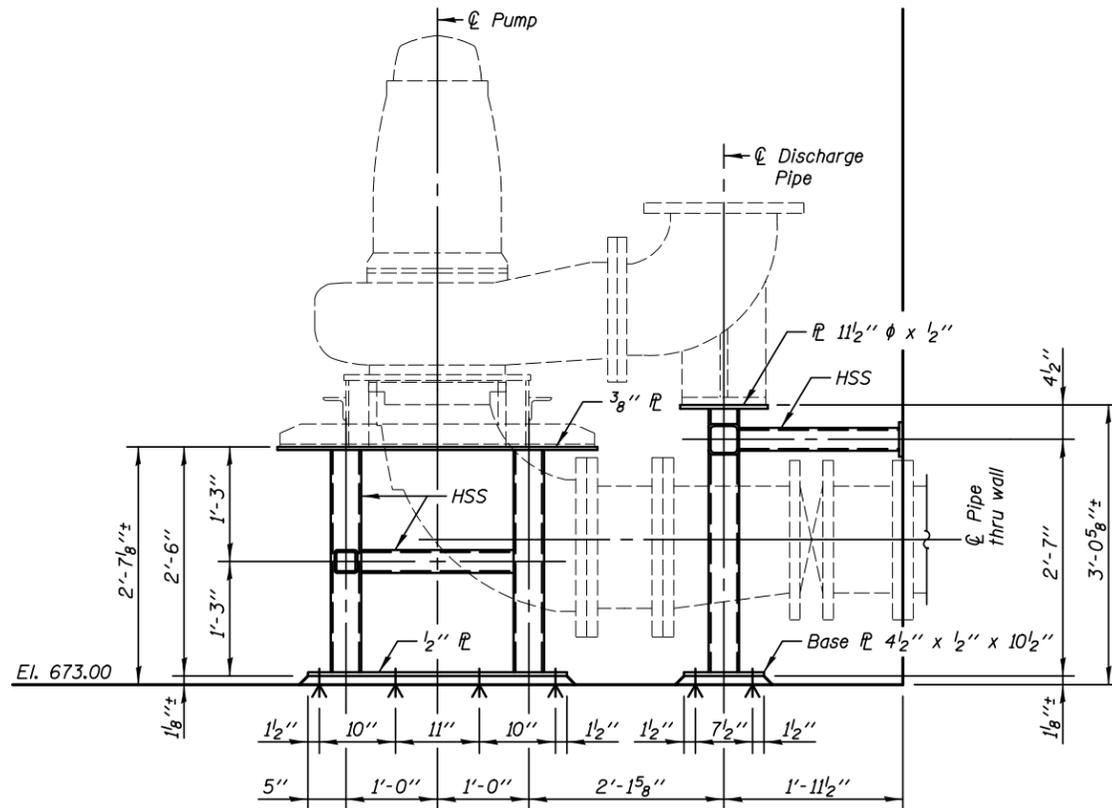


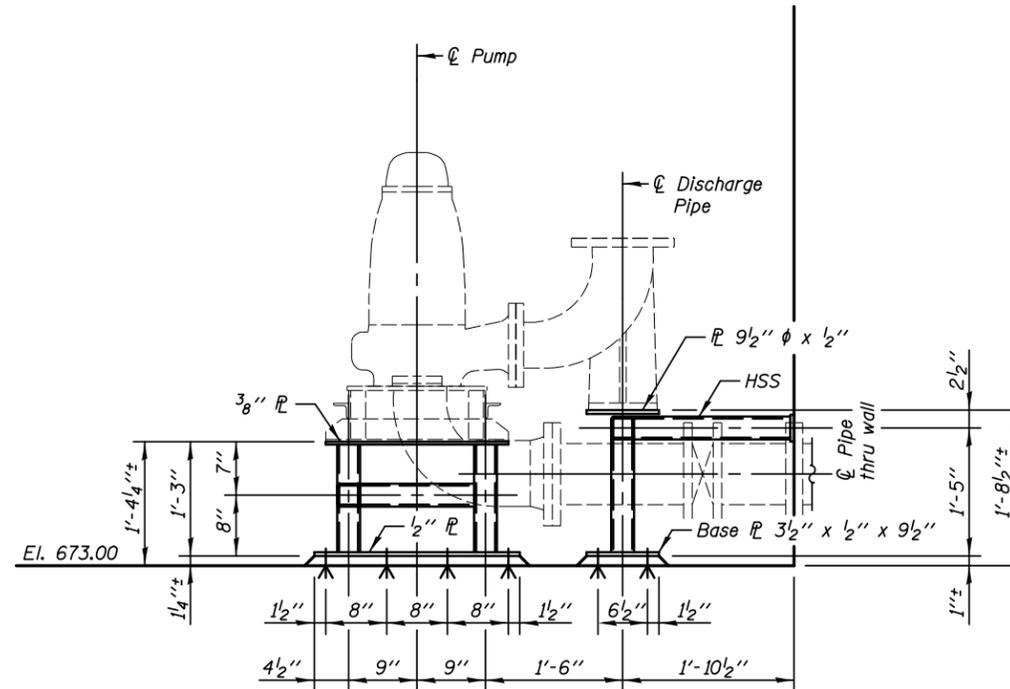
PLAN



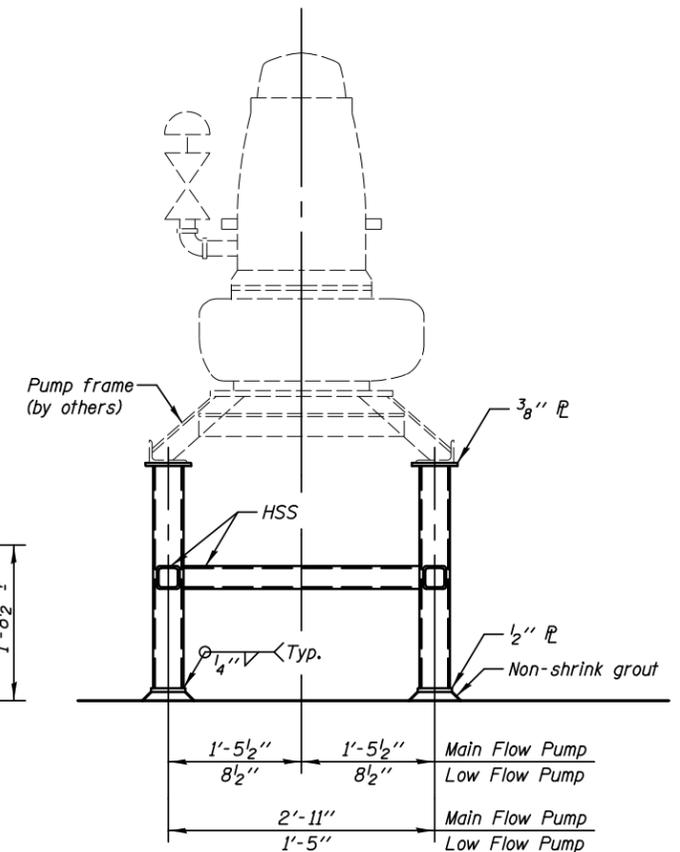
PLAN



SECTION A-A



SECTION A-A



SECTION B-B

(Main Flow Pump shown, Low Flow Pump similar)

**Notes:**

Drill and set 5/8"  $\phi$  S.S. anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be 6".

Coordinate dimensions of pump/pipe support with pump manufacturer prior to fabrication of support.

Coordinate anchor hole location in top plate with pump frame.

All steel to be Hot-Dipped Galvanized after fabrication.

Pump and piping support drawings have been prepared based on the weights and dimensions of specific manufacturers for the basis of design. The Contractor shall be responsible for verifying with the approved pump manufacturer that the pump and piping support system as constructed is suitable for the particular make and models of pumps to be installed and shall provide certification of suitability from the pump manufacturer. If required by the pump manufacturer, the Contractor shall provide alternative pump and piping supports at no additional cost to the owner. Alternatives shall fit into the allocated spaces with suitable clearance. The design of alternative pump and piping supports shall be signed and sealed by a Structural Engineer licensed in the State of Illinois and be submitted to the Engineer for approval along with certification of suitability from the pump manufacturer.

**Notes:**

All vertical HSS are HSS4x4x1/4" U.N.O  
All horizontal HSS are HSS3x3x1/4" U.N.O

**Notes:**

All vertical HSS are HSS3x3x1/4" U.N.O  
All horizontal HSS are HSS3x3x1/4" U.N.O

**MAIN FLOW PUMP / PIPE SUPPORT**  
(3 Locations)

**LOW FLOW PUMP / PIPE SUPPORT**  
(1 Location)

**KNIGHT**  
Engineers & Architects

DESIGNED - WPM	REVISIONS
CHECKED - TB	REVISIONS
DRAWN - TB	REVISIONS
CHECKED - WPM	REVISIONS
SCALE - NONE	
DATE - 3/22/2012	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STRUCTURAL DETAILS  
PUMP STATION 47

SHEET NO. SA-33 OF 34 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338/IL 59	2011-035-I	DUPAGE	181	108
CONTRACT NO. 60P41				

ILLINOIS FED. AID PROJECT