

10/17/2014 10:38:50 AM - P:\IEE\1740\200-11740-10003\CAD\SHEET\TREATMENT PLANT\1P-15601-1\SLOGGE THICKENER PANEL.DWG - CALZARETTA, TIMOTHY

DIGITAL SIGNALS

INPUT: DRIVE MOTOR RUNNING

INPUT: DRIVE IN AUTO

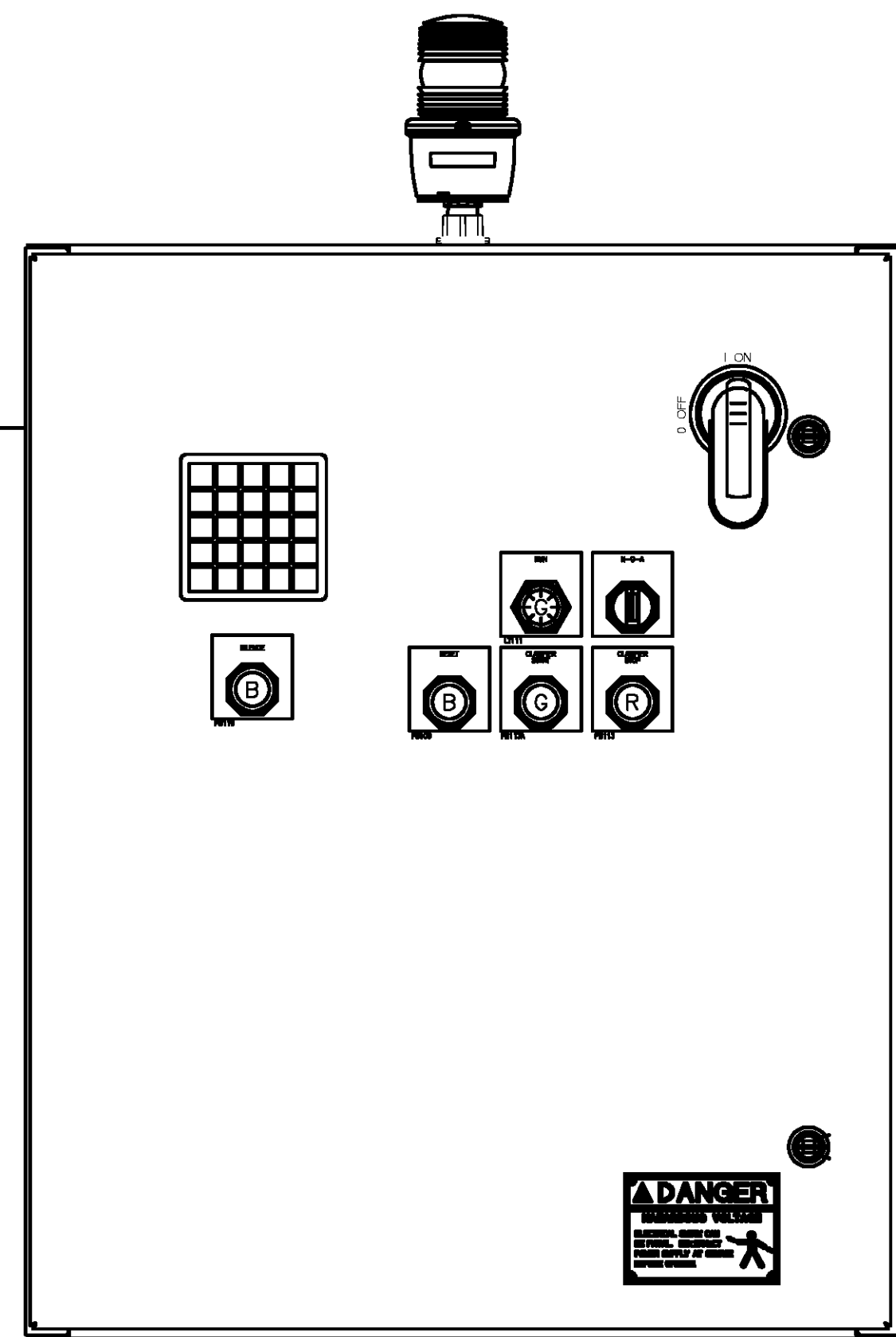
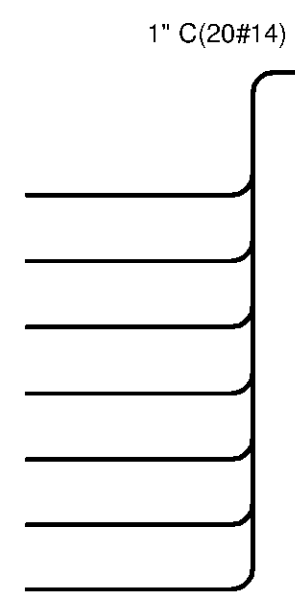
INPUT: HI-TORQUE ALARM

INPUT: HI-HI TORQUE ALARM

INPUT: MOTOR OVERLOAD ALARM

OUTPUT: DRIVE MOTOR START

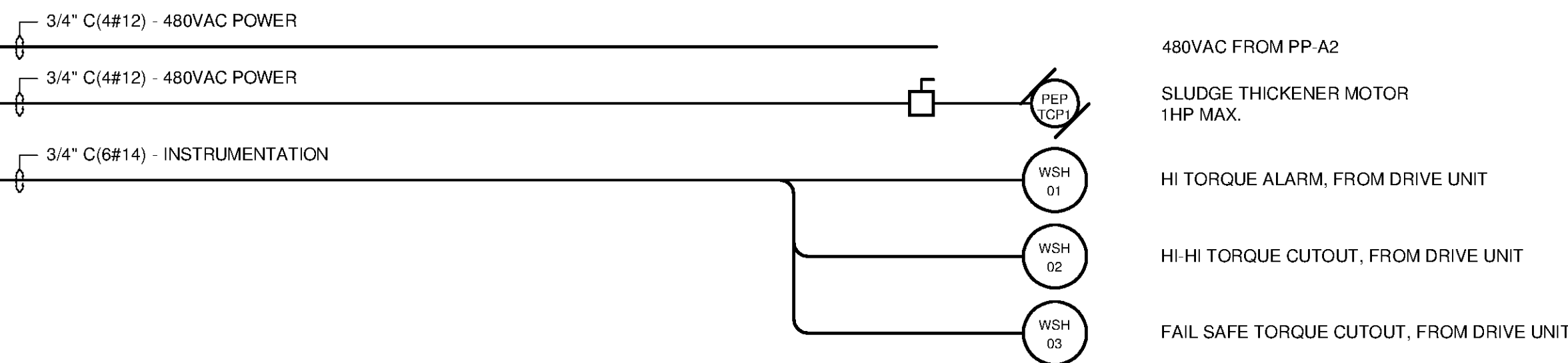
OUTPUT: DRIVE MOTOR STOP



**SLUDGE THICKENER CONTROL PANEL  
ENCLOSURE FRONT LAYOUT**

NEMA 4X (NOT TO SCALE)

- ACCESSORIES:**
- SURGE SUPPRESSOR ON INCOMING POWER.
  - DEEP HINGED WINDOW KIT COVERING DOOR ELEMENTS.
  - TYPE 316 STAINLESS STEEL, WITH ACID WASH



480VAC FROM PP-A2

SLUDGE THICKENER MOTOR  
1HP MAX.

HI TORQUE ALARM, FROM DRIVE UNIT

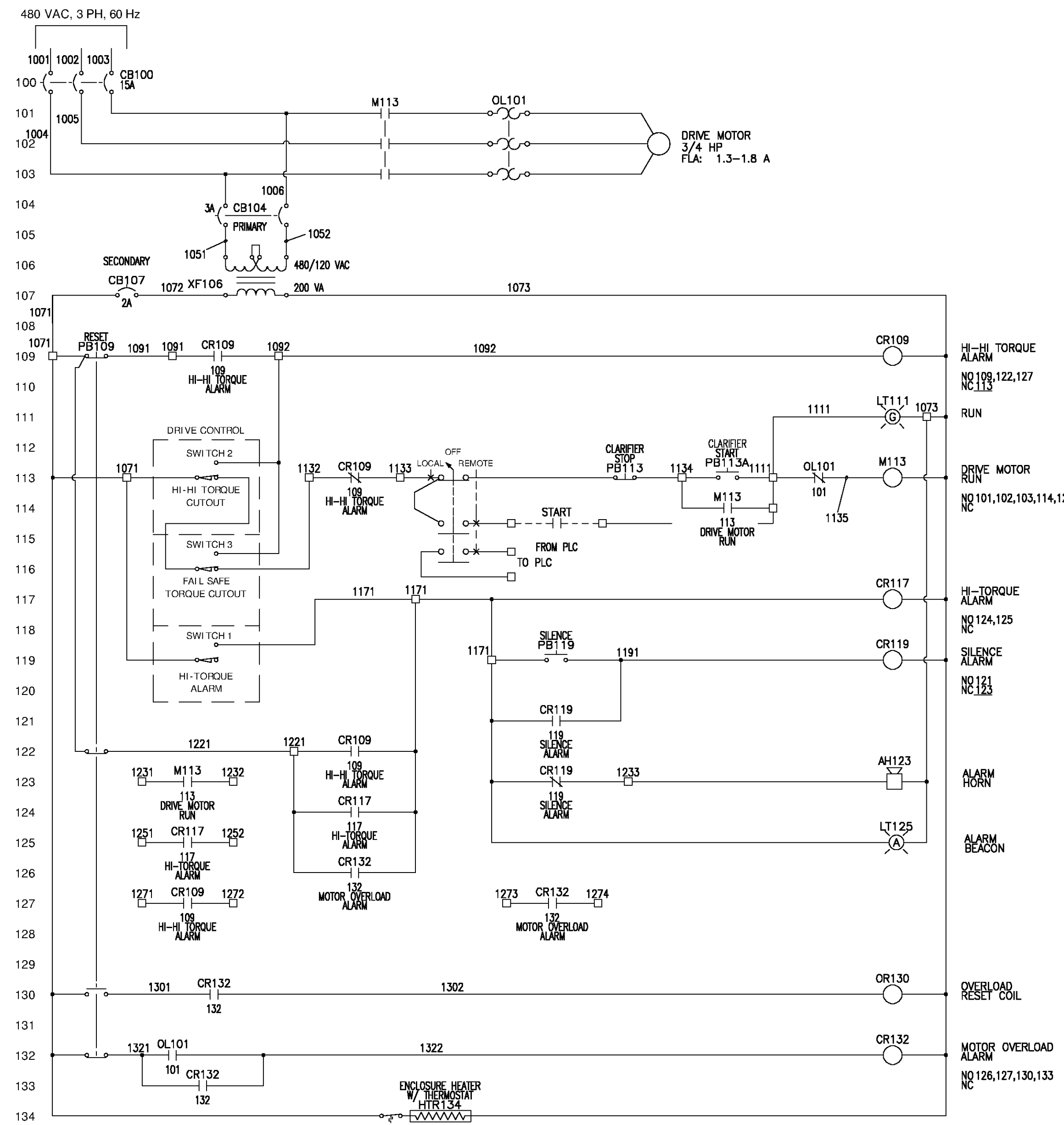
HI-HI TORQUE CUTOUT, FROM DRIVE UNIT

FAIL SAFE TORQUE CUTOUT, FROM DRIVE UNIT

**TETRA TECH**

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101 QUALITY CIRCLE, SUITE 140  
HUNTSVILLE, ALABAMA 35806  
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**BID SET**



**SUGGESTED WIRING DIAGRAM**

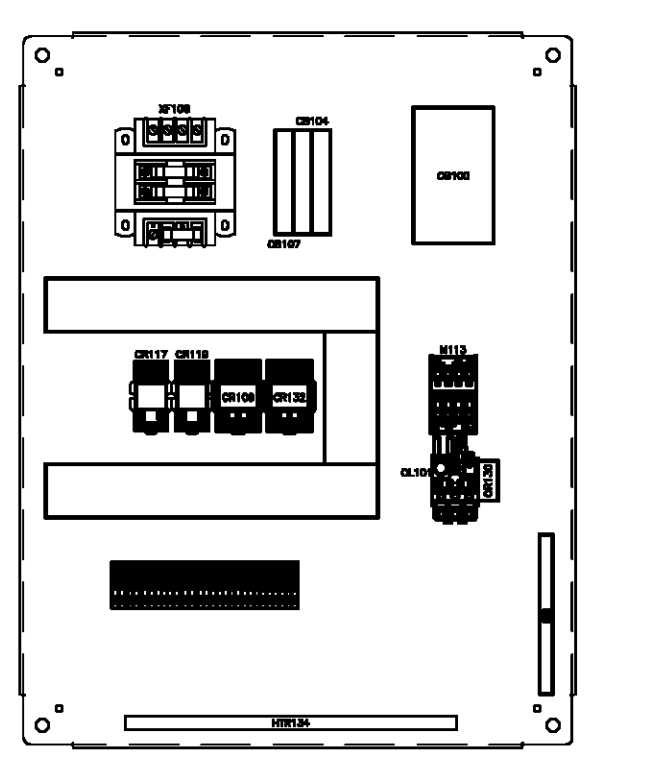
SCALE: NA

MARK	DATE	DESCRIPTION	BY

HUNTSVILLE UTILITIES  
SOUTHEAST WATER TREATMENT PLANT  
**SLUDGE THICKENER CONTROL PANEL**

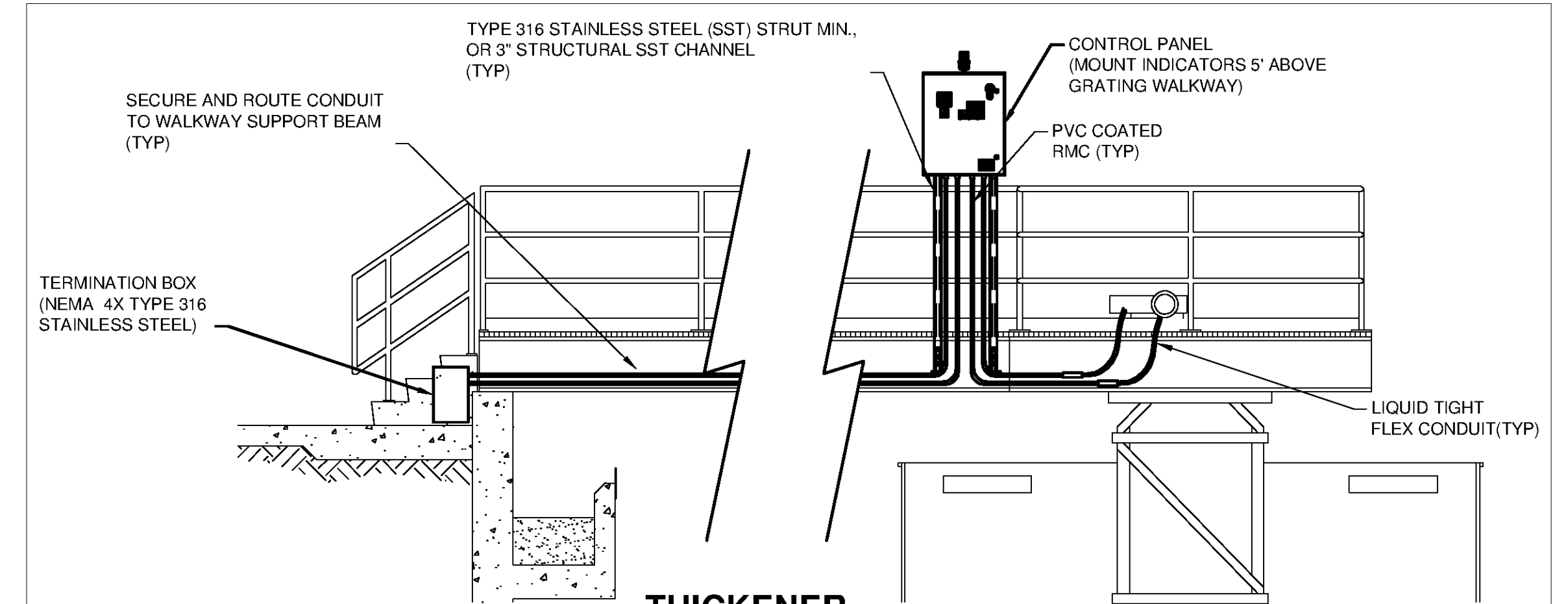
Project No.: 200-11740-10003  
Designed By: CSW  
Drawn By: TAC  
Checked By: DAB

**I-5601**



**SUGGESTED INSIDE LAYOUT**

SCALE: NA



**THICKENER SECTION VIEW**

SCALE: NA

- GENERAL NOTES:**
1. TYPICAL OF 1 PRE-ENGINEERED PANELS. PEP-TCP AND ASSOCIATED EQUIPMENT IS SHOWN.
  2. SEE SECTION 40 99 90 "PACKAGE CONTROL SYSTEMS" FOR PANEL REQUIREMENTS.
  3. SEE ELECTRICAL SPECIFICATIONS FOR CONDUIT AND WIRE REQUIREMENTS.
  4. EQUIPMENT PLACEMENT SHOWN ON E-0103.
  5. DRIVE TORQUE SWITCHES SHALL BE VERIFIED BY RESTRAINING DRIVE MECHANISM.