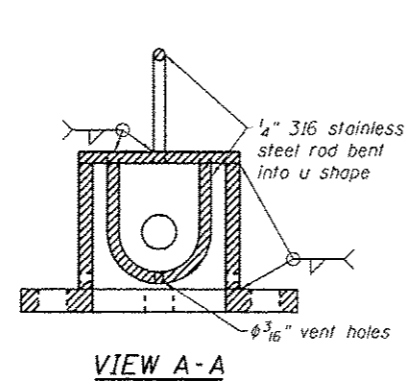
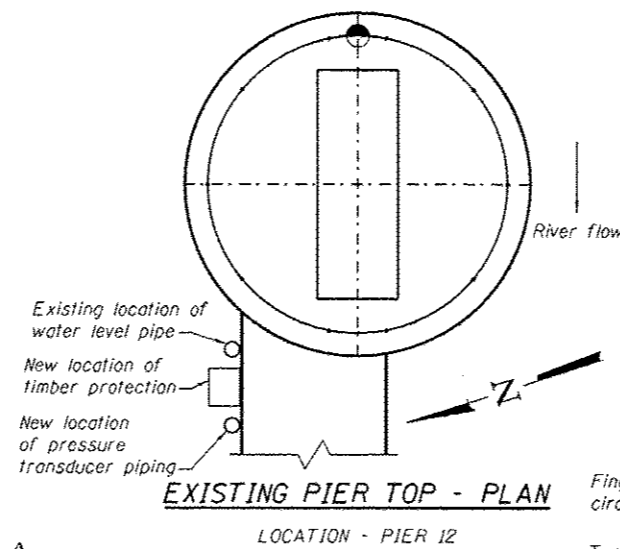


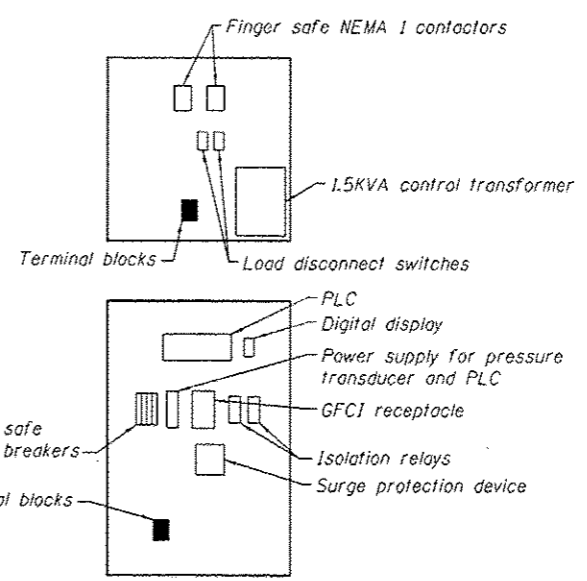
TOP CAP DETAILS



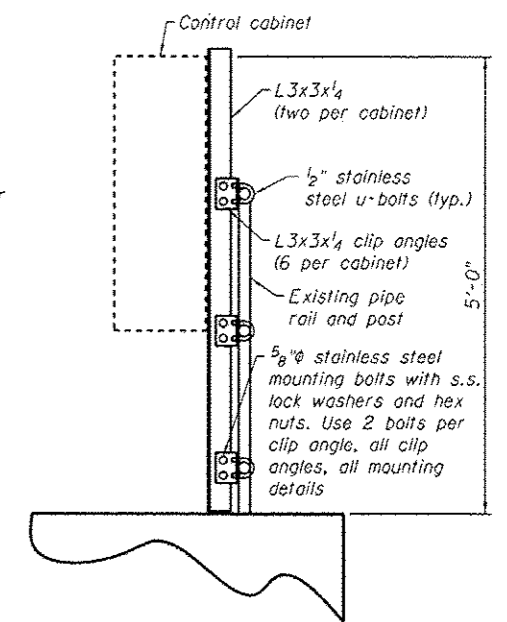
VIEW A-A



EXISTING PIER TOP - PLAN
LOCATION - PIER 12

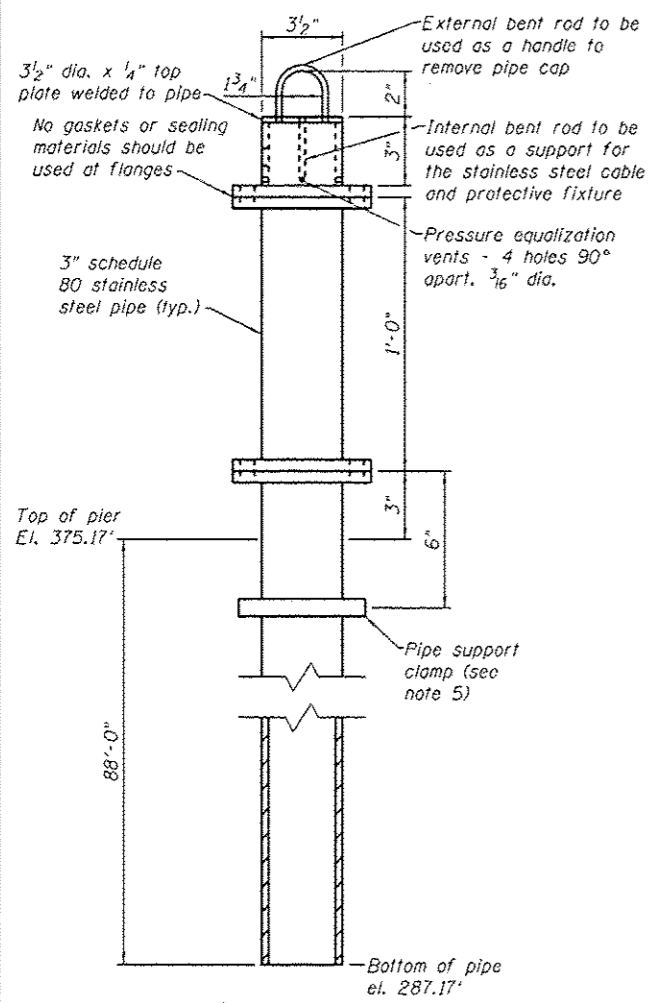


CONTROL AND POWER CABINET LAYOUTS

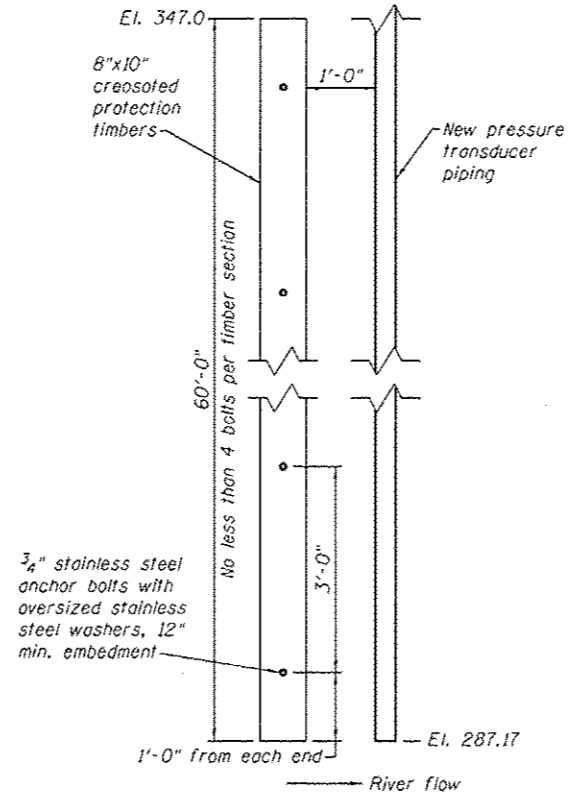


**CONTROL CABINET MOUNTING
DETAILS ON PIER 12**

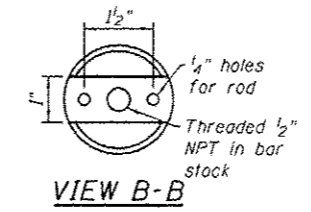
NEW CABINETS SHALL BE MOUNTED IN SAME LOCATION AS EXISTING SYSTEM (SEE NOTES)



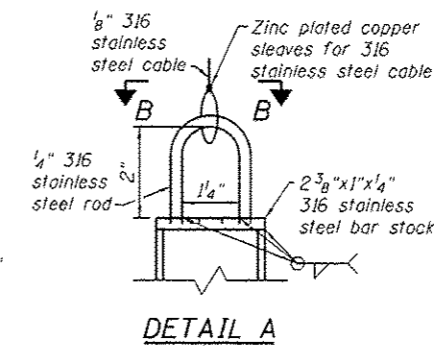
**NEW PRESSURE
TRANSDUCER PIPING**



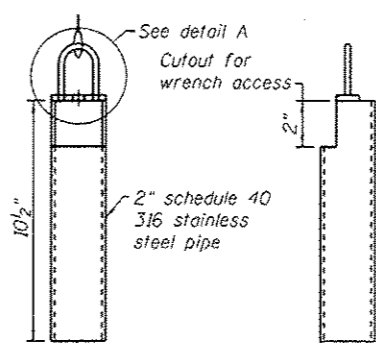
NEW TIMBER PROTECTION DETAILS



VIEW B-B

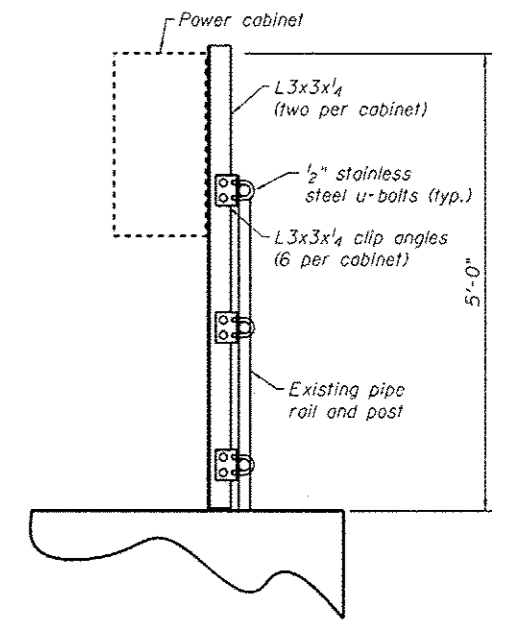


DETAIL A



**NEW PRESSURE TRANSDUCER
PROTECTIVE FIXTURE**

PRESSURE TRANSDUCER NOT SHOWN FOR CLARITY (SEE NOTE 9)



**POWER CABINET MOUNTING
DETAILS ON PIER 12**

NEW CABINETS SHALL BE MOUNTED IN SAME LOCATION AS EXISTING SYSTEM (SEE NOTES)

NOTES:

- See special provisions for additional requirements not shown.
- Verify all component dimensions, field verify all critical dimensions, and confirm compatibility prior to purchasing and installing.
- Pressure transducer shall be mounted per the manufacturers recommendation.
- Power and control cabinets shall be mounted such that their respective doors open greater than or equal to 90 degrees. Working clearances shall be per NEC.
- The first pipe clamp shall be 6" from the second flange joint, as shown above. There after, pipe supports shall be every 10". The last pipe support shall be 6" from the end of the pipe.
- The contractor shall remove the existing water level pipe system and replace with a new pressure transducer piping system and new timber protection system as shown.
- The contractor shall provide new 316 stainless steel clamps and hardware that is similar in design to the existing pipe mounts. Existing pipe clamps and hardware shall not be reused.
- The new piping system shall be mounted similar to existing system. Chemical adhesive anchors shall be used above the water line and below the water line, see special provisions for further clarification. New anchor bolts shall be 5/8" dia., and minimum embedment 6".
- Pressure transducer protective fixture shall be attached via 1/8" 316 stainless steel cable to the removable top cap as shown on this drawing. Protective fixture and pressure transducer shall be lowered into new pressure transducer piping and be lowered down to a length such that the bottom of the protective fixture does not protrude beyond the piping.



USER NAME :	DESIGNED - CDV, DECEMBER 2011	REVISED - CDV, APRIL 2013
	CHECKED - LVB, DECEMBER 2011	REVISED - LVB, APRIL 2013
PLOT SCALE :	DRAWN - RSJ, DECEMBER 2011	REVISED - RSJ, APRIL 2013
PLOT DATE :	CHECKED - CDV, DECEMBER 2011	REVISED - CDV, APRIL 2013

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NAVIGATION LIGHT AUTOMATIC CONTROLS
MOUNTING DETAILS**

SHEET NO. 3 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	164-3911-1	MASSAC	7	5
			CONTRACT NO. 78273	
ILLINOIS FED. AID PROJECT				