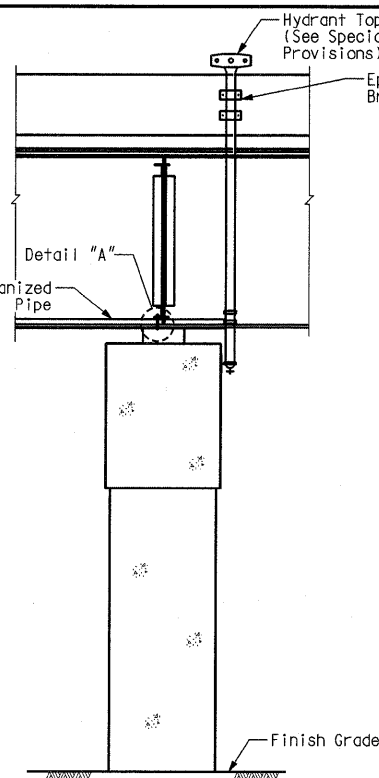
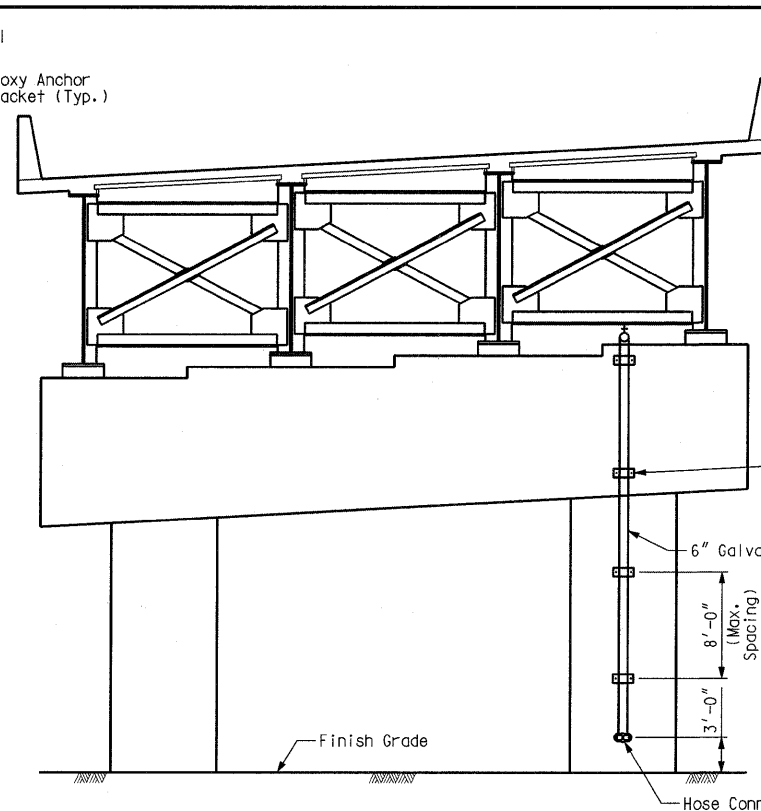


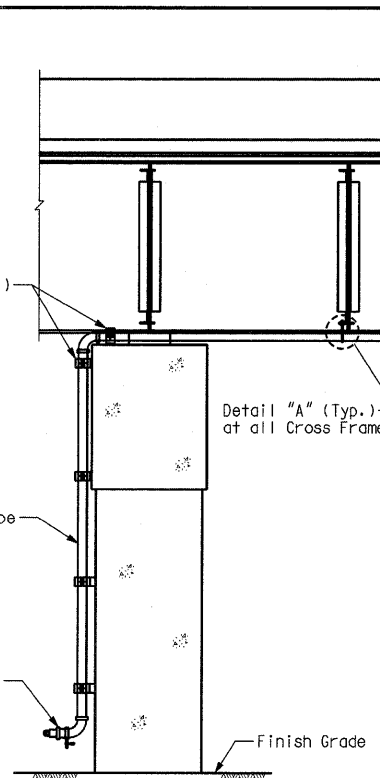
ELEVATION LOOKING EAST  
AT PIER 18 WB



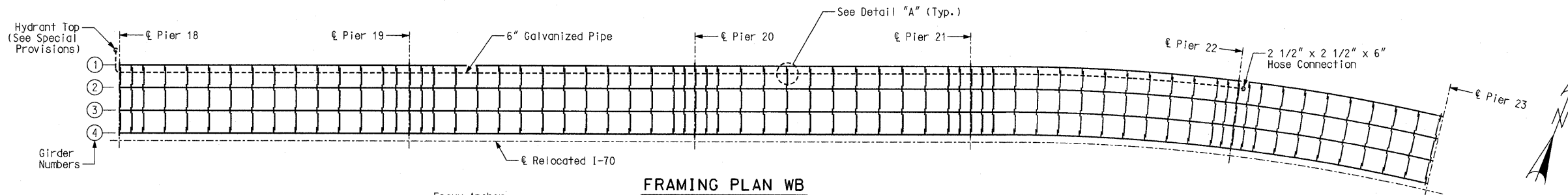
ELEVATION LOOKING SOUTH  
AT PIER 18 WB



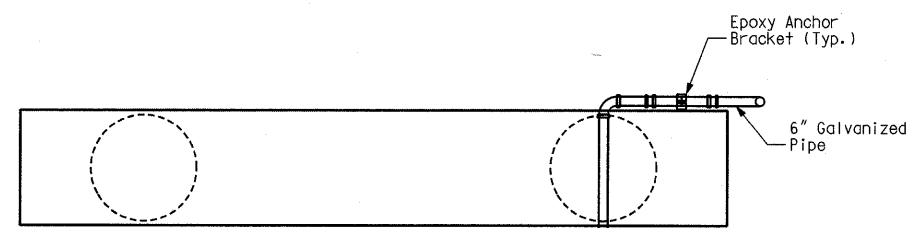
ELEVATION LOOKING WEST  
AT PIER 22 WB



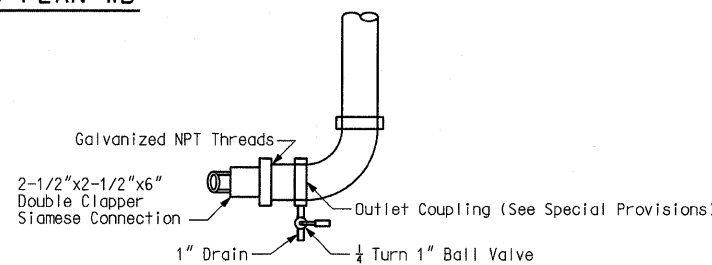
ELEVATION LOOKING SOUTH  
AT PIER 22 WB



FRAMING PLAN WB



PLAN AT PIER 18 WB

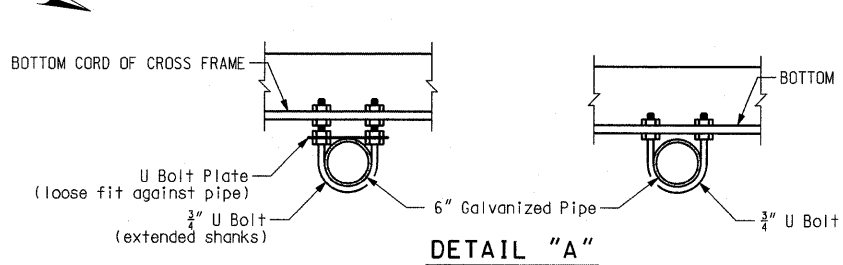


HOSE CONNECTION

- General Notes:
- Payment for pipe, fittings, hangers, anchors and all hardware shall be included in pay item "Standpipe".
  - Standpipe shall follow slope of Cross Frames from Pier 18WB to Sta. 120+00 and shall have a slope of at least 0.15% from Sta. 120+00 to Pier 22WB, to ensure drainage of standpipe.
- Structural Notes:
- Steel shall conform to the following grades:  
All Angles, Base Plates, Conn. Plates (U.N.O.) ----- A36  
U Bolts ----- A307
  - Fabricator is responsible for the design of connections not designed on the drawings. Any connection that is not shown or is not completely detailed on the structural drawings shall be designed, detailed and sealed by a structural engineer, licensed in the state of Illinois.
  - The minimum plate thickness shall be 3/8". The minimum bolt diameter shall be 3/4". The minimum weld shall be 3/8" and the minimum design load on any connection shall be 10k unless noted otherwise.
  - All elements shall be hot dip galvanized.
- Epoxy Anchors:
- Epoxy anchors to be provided shall have the following embedments and working loads (U.N.O.)

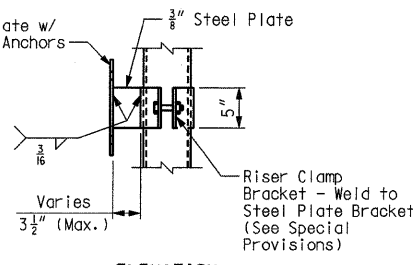
	Anchor Dia.	Min. Emb.	Tension Cap (lb.)	Shear Cap (lb.)
Concrete	3/4"	6 5/8"	7,400	4,300

- Pipe and Fittings:
- All pipe shall be schedule 40 hot-dipped galvanized meeting the requirements of ASTM-A53, NFPA 14, and shall be Factory Mutual approved. Piping shall have grooved ends compatible with the couplings and prepared per the couplings manufactures specifications. All fittings shall be standard grooved end cast ductile iron conforming to ASTM A-536, Grade 64-45-12 and compatible with the couplings. Fittings shall be hot-dipped galvanized in accordance with Sec 1080.

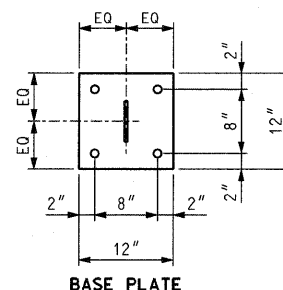


DETAIL "A"

Note A: Extend shanks as needed to provide required slope (See General Note 2). Provide U Bolt Plate when clearance allows.



ELEVATION



BASE PLATE

EPOXY ANCHOR BRACKET

Detailed JUL 2009  
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 131 of 152

DRY STANDPIPE

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jjelliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

ILLINOIS APPROACH STRUCTURE  
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
MISSOURI HIGHWAYS  
AND TRANSPORTATION COMMISSION

**HNTB**  
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY  
NO. 001270

**CMT**  
CRAWFORD, MURPHY & TILLY, INC.  
2750 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631