

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jcolliff	
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

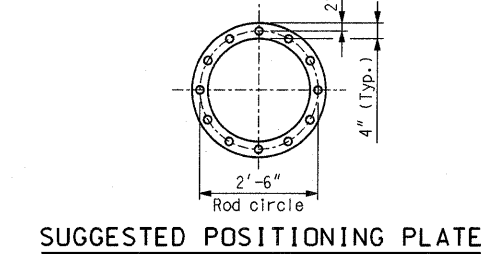
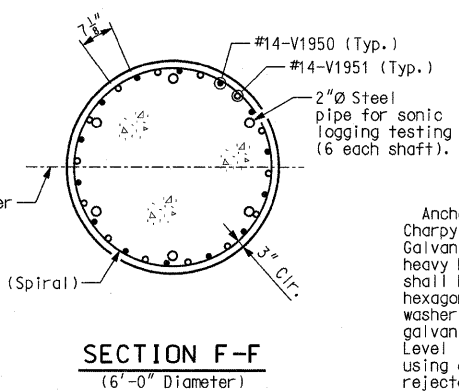
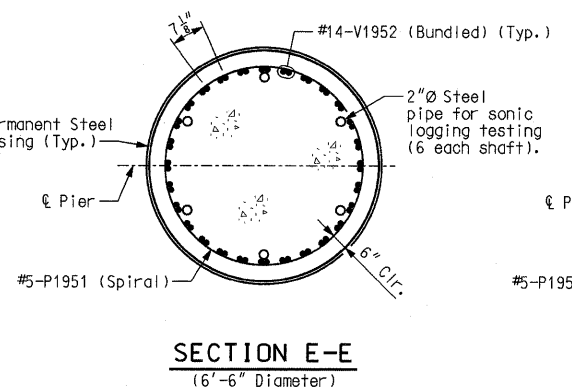
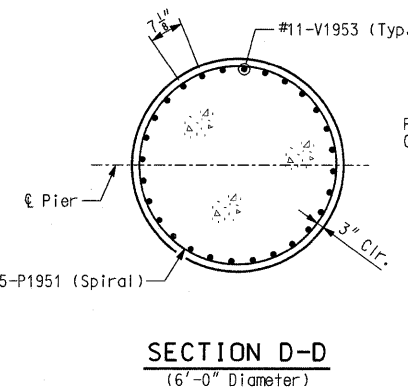
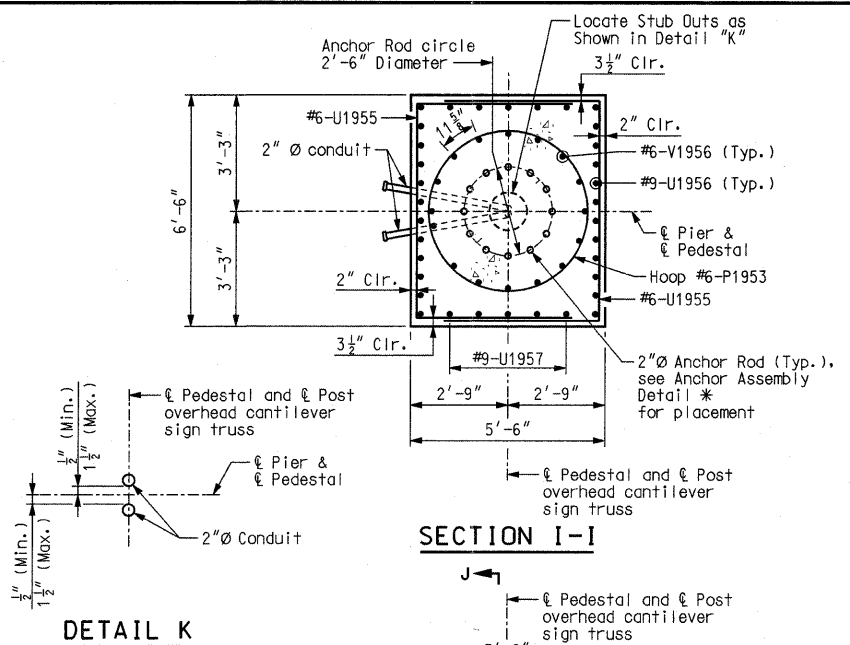
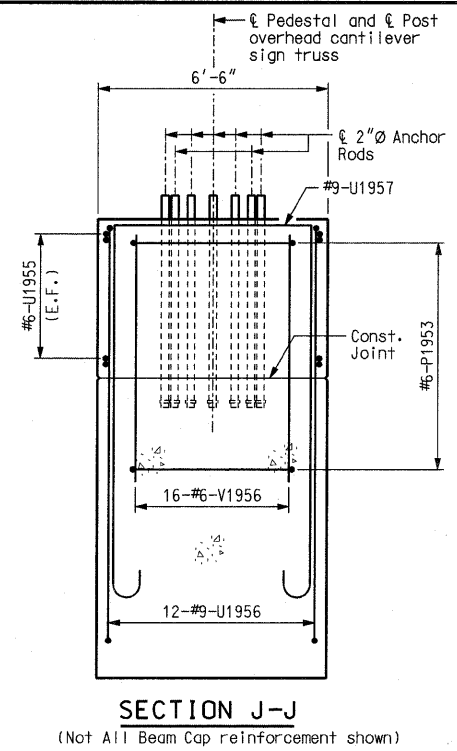
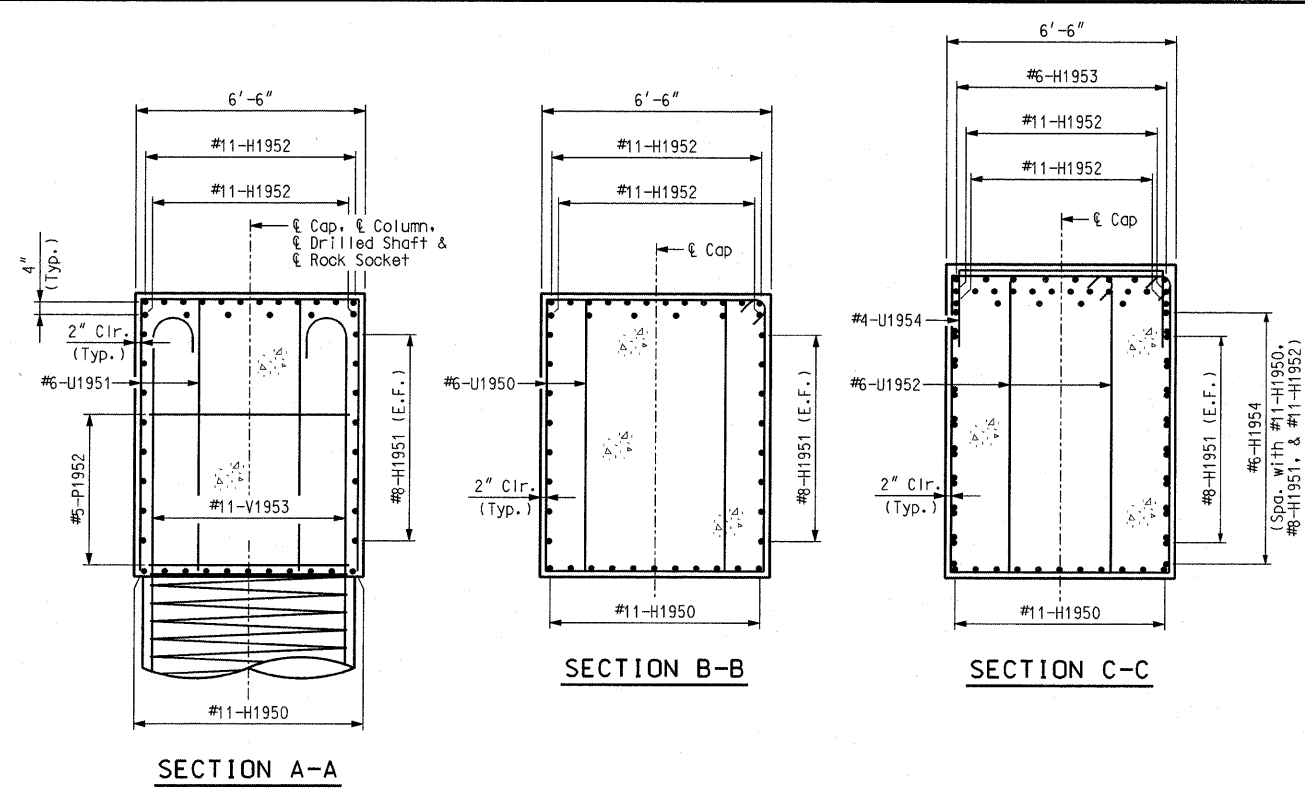
MISSOURI HIGHWAYS  
AND TRANSPORTATION COMMISSION

**HNTB**

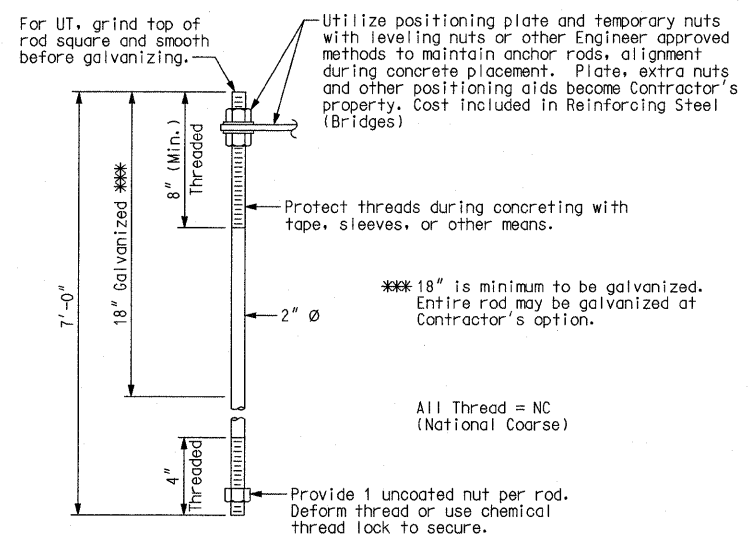
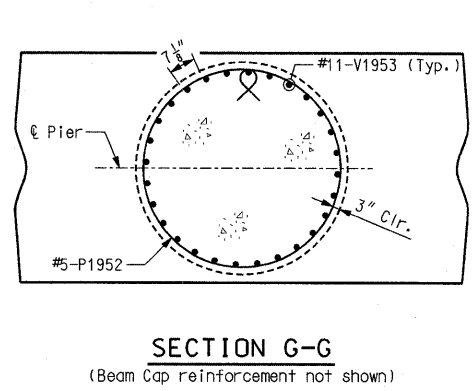
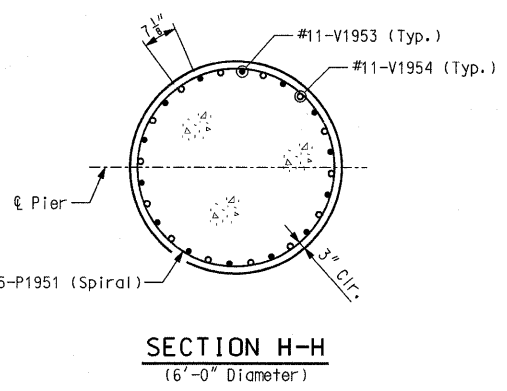
715 KIRK DRIVE  
KANSAS CITY, MO 64105  
TELEPHONE (816) 472-1201  
CERTIFICATE OF AUTHORITY  
NO. 001270

**CMT**

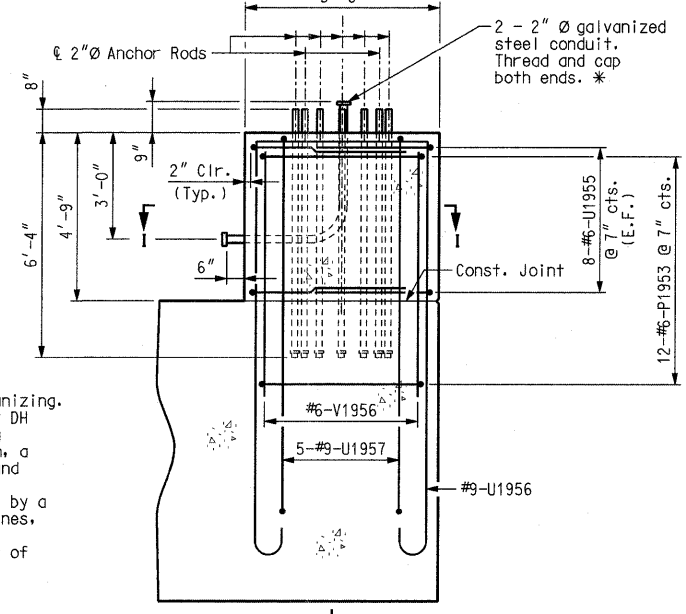
CRAWFORD, MURPHY & TILLY, INC.  
2150 WEST WASHINGTON STREET  
SPRINGFIELD, IL 62702  
TELEPHONE (217) 787-8050  
ENGINEERING CORPORATION - 000631



Anchor rods shall conform to AASHTO M314 Grade 105 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F. before galvanizing. Galvanize the upper 18" (\*\*\*) and associated M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide an unfinished nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, 1/2" 3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Reinforcing Steel (Bridges).



**ANCHOR ASSEMBLY DETAIL \***



**DETAIL OF BEAM CAP PEDESTAL**  
(All Beam Cap reinforcement not shown)

Notes:  
For location of Sections A-A, B-B, C-C, D-D, E-E, F-F, G-G, and H-H, and for additional notes, see Sheet No. 29.  
Overhead Cantilever Sign truss for DMS sign included in IDOT contract (By Others).  
\* Conduit and Anchor Assembly shall be included in the cost of Reinforcing steel (Bridges)

SUBSTRUCTURE QUANTITY TABLE FOR PIER 19 EB		
Item	Quantity	
Drilled Shafts (6 ft. 6 in. Dia.)	255.0	linear foot
Rock Sockets (6 ft. 0 in. Dia.)	48.0	linear foot
Supplementary Television Camera Inspection	1	each
Foundation Inspection Holes	68.0	linear foot
Sonic Logging Testing	2	each
Class B Concrete (Substructure)	158.1	cu. yard
Reinforcing Steel (Bridges)	163,070	pound
Mechanical Bar Splice	280	each
Reinforcing Steel (Epoxy Coated)	2,280	pound
Non-Special Waste Disposal	26.2	cu. yard

Note:  
These quantities are included in the estimated quantities table on Sheet No. 7.

**PIER 19 EB - DETAILS**

Detailed JUL 2009  
Checked JUL 2009

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

Sheet No. 30 of 152