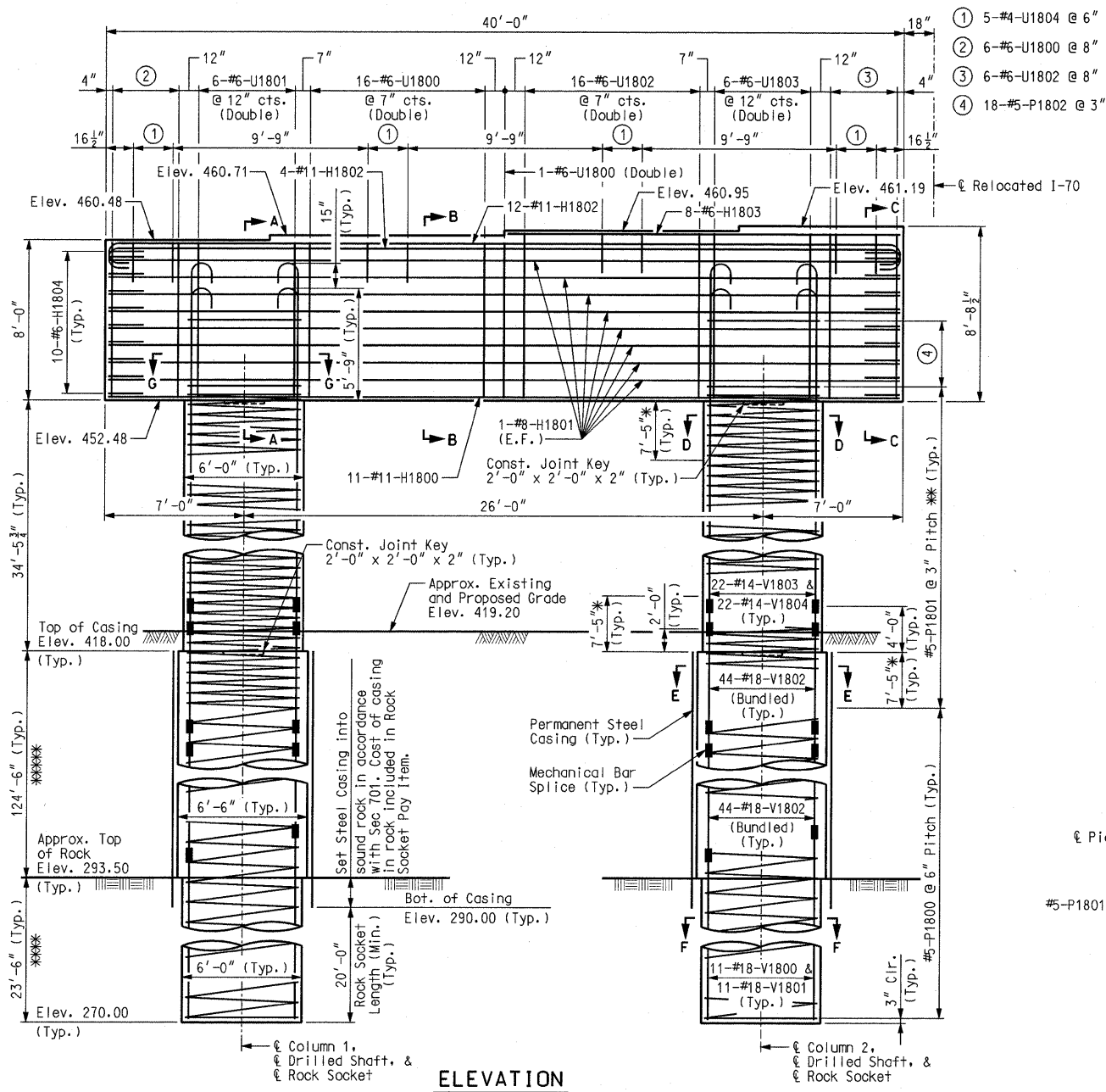
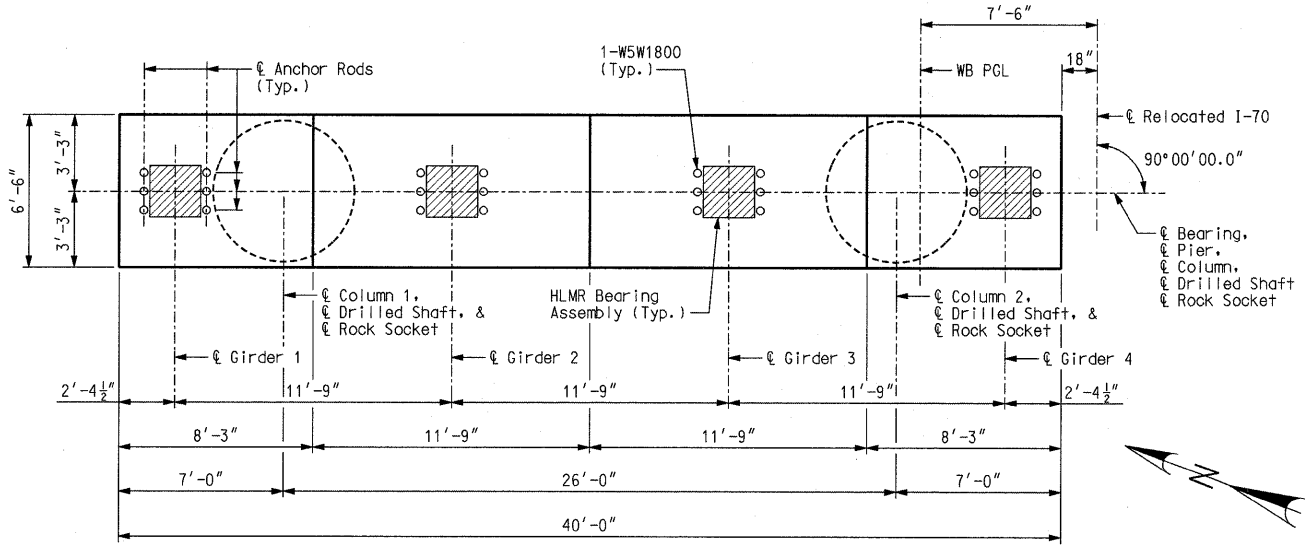


- ① 5-#4-U1804 @ 6" cts.
- ② 6-#6-U1800 @ 8" cts. (Double)
- ③ 6-#6-U1802 @ 8" cts. (Double)
- ④ 18-#5-P1802 @ 3" cts. (Typ.) ***

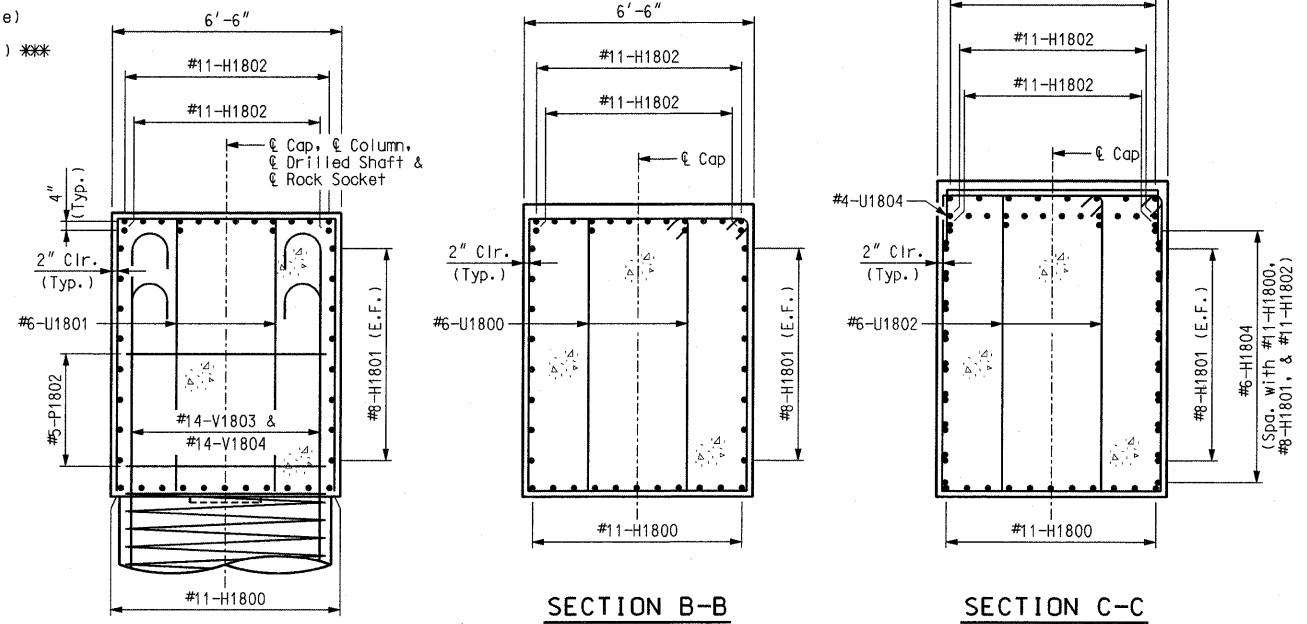


ELEVATION



PLAN

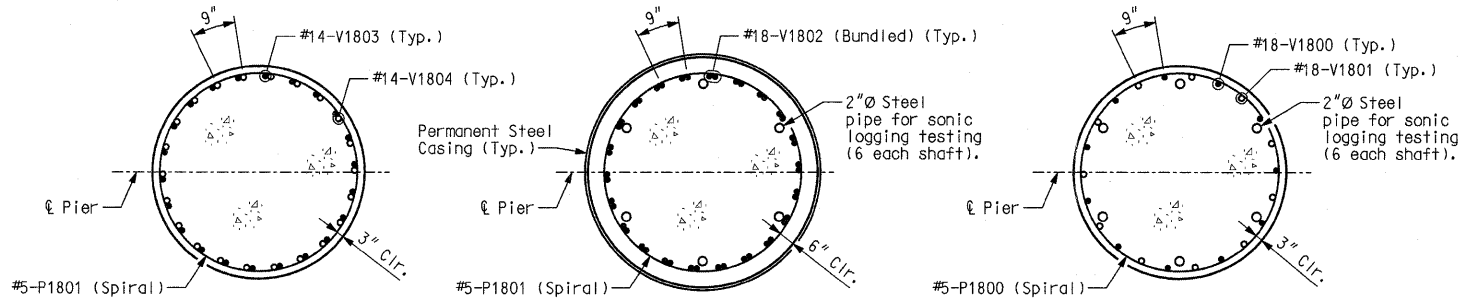
Note: This drawing is not to scale. Follow dimensions.



SECTION A-A

SECTION B-B

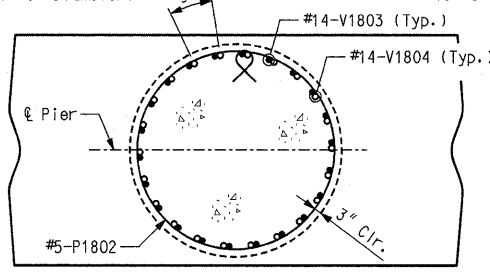
SECTION C-C



SECTION D-D

SECTION E-E

SECTION F-F



SECTION G-G

SUBSTRUCTURE QUANTITY TABLE FOR PIER 18 WB		
Item	Unit	Quantity
Drilled Shafts (6 ft. 6 in. Dia.)	linear foot	249.0
Rock Sockets (6 ft. 0 in. Dia.)	linear foot	47.0
Supplementary Television Camera Inspection	each	1
Foundation Inspection Holes	linear foot	67.0
Sonic Logging Testing	each	2
Class B Concrete (Substructure)	cu. yard	152.7
Reinforcing Steel (Bridges)	pound	215,210
Mechanical Bar Splice	each	220
Non-Special Waste Disposal	cu. yard	26.2

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

Notes:
 An additional 4 feet has been added to #5-P1800, #18-V1800 and #18-V1801 lengths for possible change in drilled shaft or rock socket depth. This excess length shall be cut off or included in the reinforcement lap if not required.
 Sonic logging testing shall be performed on all drilled shafts and rock sockets.
 All reinforcing bars in the tops of substructure beams or caps shall be spaced to clear anchor rod wells for bearings by at least 1/2".
 The hooks of V-Bars embedded in the beam cap shall be oriented inward. Bending the hook outward, away from the column core, is not allowed.
 The thickness of steel casing shall meet all the requirements of Sec 701 with minimum thickness being 3/8 inch. Thicker casing may be required for installation.
 For details of HLMR Bearing Assembly, see Sheet No. 43.
 For Anchor Rod Well Details and Anchor Rod Setting Plan, see Sheet No. 46.
 For details of seismic stirrup bars, see Sheet No. 7.
 * Lapping of spiral reinforcement in this region not permitted.
 ** Continue spiral bars to the bottom of the beam cap stirrup reinforcing bar.
 *** Splice locations shall be staggered.
 Anchorage of spiral reinforcement shall be provided by 1-1/2 extra turns of spiral bar at each end of spiral unit.
 **** Pay Items Rock Socket (6 ft. 0 in. Dia.).
 ***** Pay Items Drilled Shaft (6 ft. 6 in. Dia.).

PIER 18 WB

Detailed JUL 2009
 Checked JUL 2009

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT ILLINOIS	
COUNTY	ST. CLAIR
USER NAME = jje11ff	
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