

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jjo11rff	
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

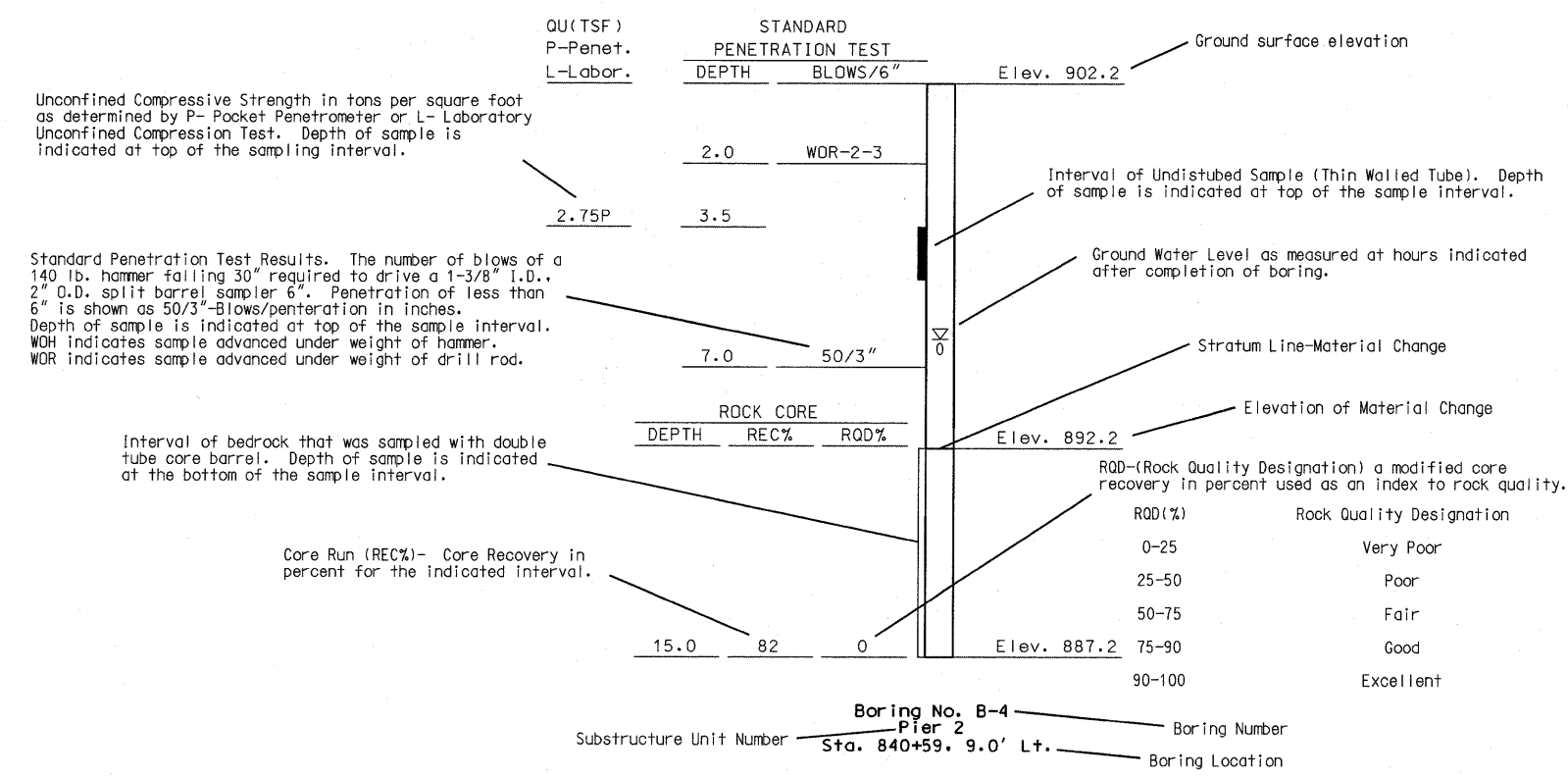
HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

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

QU(TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST		Elev. 421.8
	DEPTH	BLOWS/6"	
	3.5	10-15-15	Brown, Medium Dense to Loose, Fine SAND, Dry to Wet. (SP). Trace Fine Gravel
	8.5	4-6-8	
	13.5	4-6-6	
	18.5	2-2-3	
	23.5	5-5-6	
	28.5	3-3-6	Elev. 389.8
	33.5	3-8-8	
	38.5	5-5-5	Gray, Medium Dense to Loose, Fine Silty SAND, Wet. (SM)
0.25P	43.5	1-1-2	Elev. 378.3
0.5P	48		Gray, Soft, CLAY, Moist. (CH) Elev. 373.8
0.5P	53		Gray, Soft, Sandy CLAY, Moist. (CL) Elev. 368.8
	58.5	9-10-11	Gray, Soft, CLAY, Moist. (CH) Elev. 363.3
	63.5	15-18-17	Gray, Medium Dense to Dense, Medium to Fine SAND, Wet. (SP)
	68.5	9-9-7	
	73.5	11-15-14	Elev. 348.3
	78.5	18-18-16	Gray, Medium Dense, Coarse to Fine SAND, Wet. (SP), Trace Gravel Elev. 343.3
	83.5	15-16-20	Gray, Dense to Very Dense, Medium to Very Fine SAND, Wet. (SP) - gravel layer from 96.0 to 97.0 ft.
	88.5	13-16-21	Elev. 318.3
	93.5	15-13-24	Gray, Very Dense to Dense, Coarse to Fine SAND, Wet. (SW), Some to Trace Gravel Elev. 308.3
	98.5	20-29-33	Gray, Very Dense, Medium to Fine SAND, Wet. (SP), Trace Coarse SAND - gravel layer from 117.0 to 118.0 ft. Elev. 303.3
	103.5	10-27-23	Gray, Dense, Coarse to Fine SAND, Wet. (SW), Little Fine Gravel Elev. 299.3
	108.5	16-20-22	LIMESTONE Boulders and Cobbles Elev. 298.6
	113.5	30-37-42	LIMESTONE, gray to dark gray, hard, finely to very finely crystalline, thin to very thick bedded, slightly weathered - dark gray, medium to thick bedded below 124.5 ft. - gray below 129.5 ft. - very finely crystalline, thick bedded from 137.0 to 138.3 ft. - finely crystalline below 138.5 ft. - dark gray from 139.7 to 140.1 and 141.5 to 142.6 ft. - very thick bedded below 148.5 ft. - gray to dark gray from 163.5 to 165.0, 165.8 to 166.4 and below 168.5 ft. - dark gray from 170.2 to 170.3 ft. - gray, medium to thin bedded below 188.5 ft. - dolomite from 124.5 to 126.0 and 126.7 to 126.9 ft. - dark gray, dolomitic from 160.1 to 161.1 ft. - calcite deposit from 162.6 to 163.1 and 186.3 to 186.8 ft. - 1.0" gray, soft, shale seam at 128.3 ft. - 0.12" gray, soft, shale seam at 173.7 ft. - dark gray, soft shale seam from 178.1 to 178.3 ft. - 0.12" dark gray, soft, shale seam at 181.0 ft. - 2.0" gray, soft, shale seam at 188.8 ft. - multiple cemented horizontal fractures from 133.5 to 134.0 ft. - cemented horizontal fractures at 135.1, 135.8, 138.6, 139.5, 140.2, 143.0, 144.2, 145.5, 170.0, 170.4, 171.9, 172.4, 172.9 and 173.3 ft. - cemented vertical joint from 126.7 to 126.9 ft. - multiple fractures from 131.0 to 132.0 ft. - fractured from 175.8 to 175.9 ft. - vertical joint from 139.9 to 140.4 ft. - 45 degree fracture at 183.0 ft. - multiple cemented 45 degree and horizontal fractures from 183.5 to 185.0 ft. - cherty from 131.4 to 133.4, 133.5 to 135.9, 142.0 to 143.0 and 157.3 to 157.5 ft. - 2.0" chert seam at 166.7 ft. - chert nodules at 168.7 ft. Elev. 228.3
	118.5	24-20-25	
	124.5	100	
331.3L	129.5	100	
	133.5	100	
690.1L	138.5	100	
	143.5	100	
598.1L	148.5	100	
	153.5	100	
609.8L	158.5	100	
742.1L	163.5	100	
	168.5	100	
461.7L	173.5	100	
762.8L	178.5	100	
	183.5	100	
706.7L	188.5	100	
	193.5	100	

Boring Number EA-1
Anchor Pier 13
Sta. 102+14.48, 41.04' Lt.
BORING DATA (1 OF 7)

TYPICAL BORING



GENERAL NOTES:

The borings shown in these plans were drilled by Geotechnology, Inc., under the direction of HNTB Corporation, between September 29, 2008 and January 12, 2009. For boring locations in plan, see Sheet Nos. 3 through 6.

The ground water levels shown were recorded during time of drilling. Porosity of soil strata, weather conditions, seasonal changes, site topography, etc., may cause changes in the water levels reported.

The boring information shown on this drawing is abbreviated. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of the project, will be provided in the bridge electronic deliverable file or will be available from the Project Contact upon written request as outlined in the Project Special Provisions. No greater significance or weight should be given to the boring data depicted on the plan sheets than is subsurface data available from the district or elsewhere.

For notice and disclaimer regarding boring log data, see Sheet No. 3.