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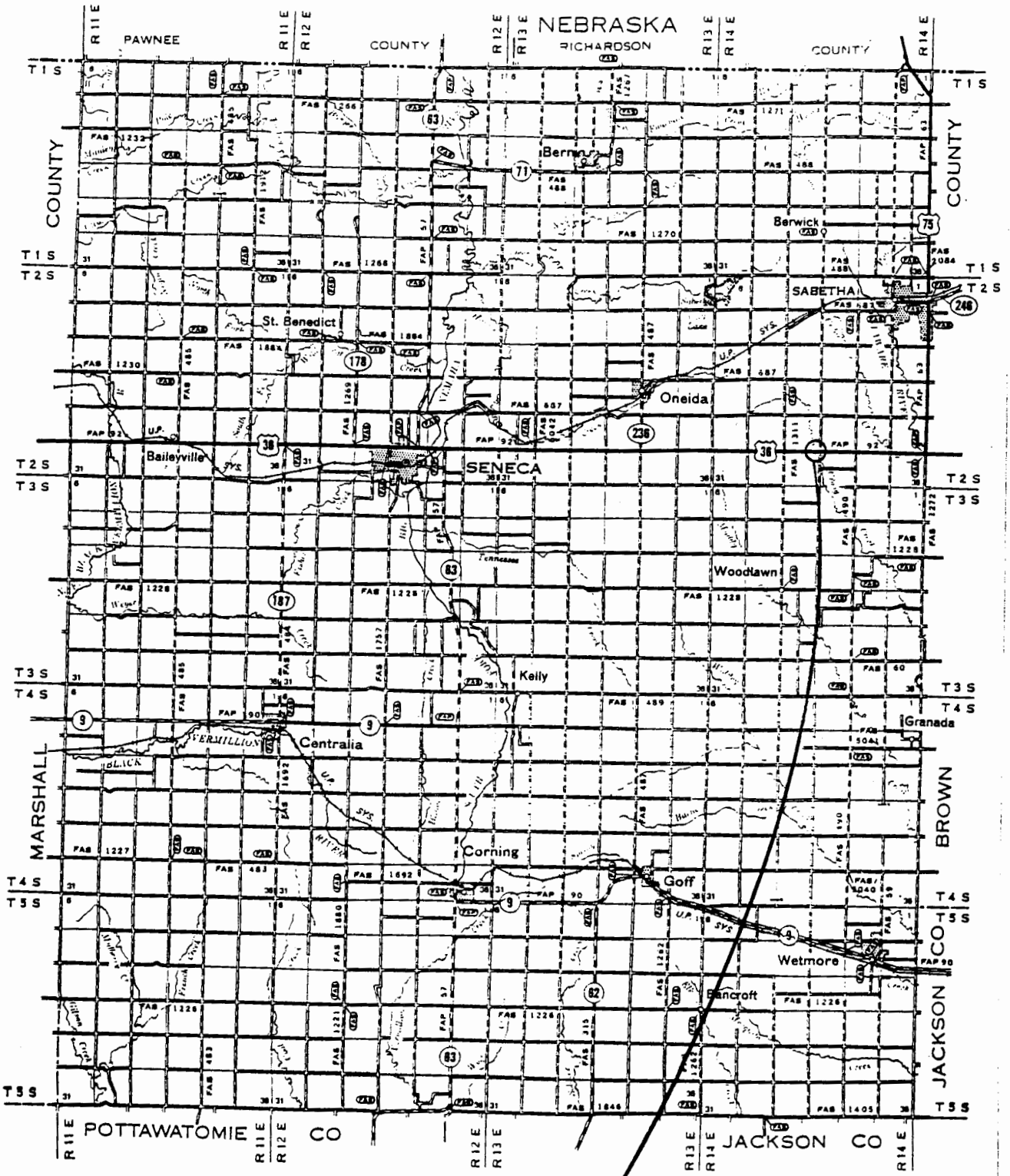
Kansas Department of Transportation

BRIDGE FOUNDATION GEOLOGY REPORT



36-66 K-3328-01
Br. No. 20.82
Nemaha County

ROUTE NO. U.S. - 36 SOUNDING NO. CD #1 SHEET 1 OF 2

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Nemaha PROJECT NO. 36-66-K-3328-01 BRIDGE NO. 20.82

DESCRIPTION U.S.-36 over Craig Creek STA. 466+11. Rt. 36

GEOLOGIST R. Hutchinson VERTICAL SCALE 1" = 10' DATE 3-24-92

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	STANDARD PENETRATION OR CASING DRIVE ELEV.
						T.H. 1234.1			
Diamond Bit Hawthorne #6	Alluvium				1230	Silt - Dark Brown		Pushed 4" Casing	
				13½	1221.0				
					1220	Silt - Sandy, Gray to Aqua Green			
				26½	1208.0				
					1210	Sand - Gray - tan			
				33½	1200.8				
				35½	1199.0	Gravel & Sand			1199.6
					1200	Heavy Gravel			
				44°	1190.1				
	Eskridge Mbr.			46½	1187.9	Sh. - Green Gray	Sa. #1	Ref. 115 Blows	1187.6
	Neva Mbr.	Core #2		49½	1185.0	Ls. - Shly Lt. Gray		Qu. 5.66	1186.8
				49¾	1184.2	Sh. - Lmy Lt. Gray	Sa. #2	Qu. 4.95	1185.0
				52½	1181.9	Ls. - Shly Cream in color			
				53½	1180.6	Sh. - Lmy Lt. Gray	Sa. #3	Qu. 7.88	1180.5
				55½	1179.0	Ls. - Shly soft			
				55.8	1178.3	Ls. - hrd., creamy color			
				57½	1176.7	Sh. - Gray	Sa. #4	Qu. 3.62	1176.0
				59½	1174.8	Ls. - Foss. Gray			
	Salem Point Mbr.			62½	1171.9	Sh. - Slty lmy Lt. Gray			
				64½	1170.0	Ls. - shly Lt. Gray	Sa. #5	Qu. 192	1171.2
						Sh. - Lmy., Lt. Grayish Green, lower 0.2 w/ nodular ls.	Sa. #6	Qu. 3.44	1169.1
				66.5	1167.2				
				67.5	1166.6	Ls. - shly., Lt. Greenish Gray Nod	Sa. #7	Qu. 6.93	1165.9
	Burr Mbr.					Ls. - Shly., Creamy Color	Sa. #8	Qu. 32.3	1164.1
				71.8	1162.3				
				72.2	1161.4	Ls. - hard Lt. Gray			
				73.3	1160.3	Sh. - lmy., Lt. Gray to Gray			
				74.3	1159.3	Ls. - Hrd., dense, Nodular Sh.			
		T.D.							

ROUTE NO. U.S. 36 SOUNDING NO. CD# 1 SHEET 2 OF 2

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Nemaha PROJECT NO. 36-66-K-3328-01 BRIDGE NO. 20.82

DESCRIPTION U.S. 36 over Craig Creek STA. 466+11, Rt 36

GEOLOGIST R. Hutchinson VERTICAL SCALE DATE 3-25-92

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	STANDARD PENETRATION OR CASING DRIVE ELEV.
						Core #1, 46.5 - 51.5 (1187.6 - 1182.6) Cut: 5.0 Rec: 4.8 RQD 83% Core Rec. 95%			
						Core #2, 51.5 - 55.7 (1182.6 - 1178.4) Cut: 4.2 Rec: 3.7 RQD 74% Core Rec. 88%			
						Core #3, 55.7 - 60.0 (1178.4 - 1174.1) Cut: 4.3 Rec: 4.0 RQD 59% Core Rec. 92%			
						Core #4, 60.0 - 65.0 (1174.1 - 1169.1) Cut: 5.0 Rec: 5.0 RQD 74% Core Rec. 100%			
						Core #5, 65.0 - 67.2 (1169.1 - 1166.6) Cut: 2.5 Rec: 2.2 RQD 0% Core Rec. 88%			
						Core #6, 67.2 - 72.1 (1166.6 - 1162.0) Cut: 4.6 Rec: 4.4 RQD 67% Core Rec. 96%			
						Core #7, 72.1 - 74.3 (1162.0 - 1159.8) Cut: 2.2 Rec: 2.2 RQD 18% Core Rec. 100%			