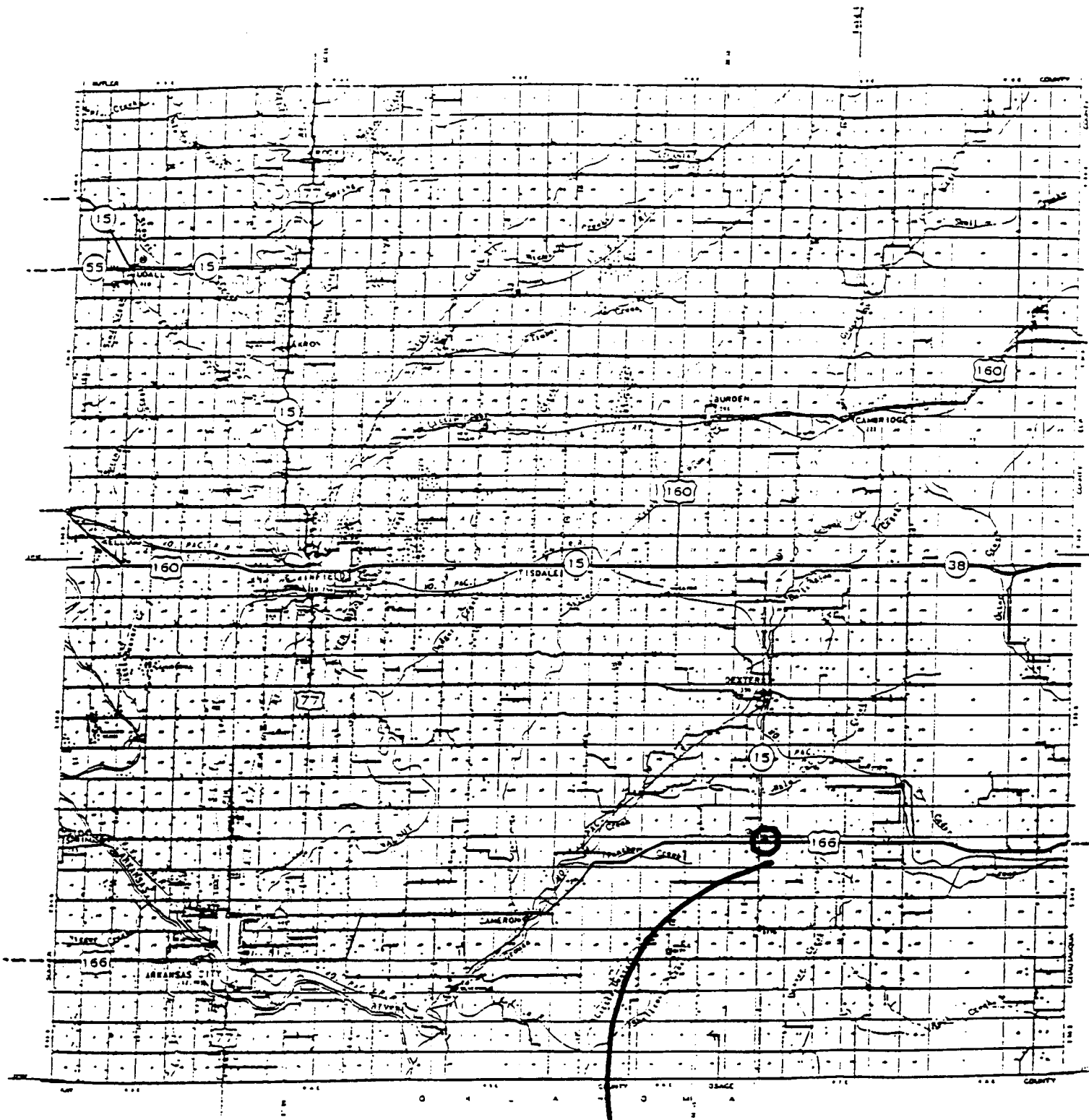


BRIDGE FOUNDATION GEOLOGY REPORT
Job No. 02905163C



NW - 7-34S-SE
0-50'

166-18 K-435501
Cowley County
Bridge at Sta. 981+78

COWLEY-18

Florena sh - Eskridge shale

Council Grove

LOG OF STATION: 981 + 17 LT 18.5', BORING NO. B-4-1


OWNER KANSAS DEPARTMENT OF TRANSPORTATION		ENGINEER COOK, FLATT & STROBELL							
SITE COWLEY COUNTY, KANSAS		PROJECT 166-18K-4355-01							
GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	SAMPLES			TESTS			
			HORIZON	SPT - N BLOWS/FT.	TYPE	RECOVERY, in.	KDOT TEXTURAL SYMBOL	IN-SITU MOISTURE, %	IN-SITU DRY DENSITY, PCF
	Surface Elevation: 1217.66 ft. Station: 981 + 17 LT 18.5'								
	SILTY CLAY , Very Dark Grayish Brown, 10YR 3/2	3.3 4.0							
	SILTY CLAY with Gravel, Very Dark Grayish Brown, 10YR 3/2	4.0	12	SS	13				1
	**CLAY with Gravel, Brown, 10YR 5/3			HS					
	SANDY CLAY , Brown, 10YR 5/3	9.6	27	SS	12				2
	SANDY GRAVEL with Clay, Brown, 10YR 5/3	12.5		HS					
	**LIMEY SHALE , Hard, Slightly Weathered, Solid, Gray to Dark Gray, With Thin Limestone Beds and Nodules (Florena)	15.0	50/3"	SS	6				3
	**CLAYEY SHALE , Moderately Hard, Moderately Weathered, Solid, Maroon to Light Gray (Eskridge)	21.0	RQD 18%	RB DB	93 %				R1 NX
				DB	100 %				R2 NX R3 NX
				DB	100 %				R4 NX
				DB	27 %				R5 NX

Continued Next Page

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WATER LEVEL OBSERVATIONS			<h2 style="margin: 0;">Terracon</h2>		BORING STARTED 7-14-93			
WL	▽ 10.5	W.D.			▽ 2.5	A.C.R.	BORING COMPLETED 7-14-93	
WL							RIG	CME 45 FOREMAN LR
WL							APPROVED	EMK JOB # 02905163C

LOG OF STATION: 981 + 17 LT 18.5', BORING NO. B-4-1

OWNER KANSAS DEPARTMENT OF TRANSPORTATION		ENGINEER COOK, FLATT & STROBELL								
SITE COWLEY COUNTY, KANSAS		PROJECT 166-18K-4355-01								
GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	SAMPLES				TESTS			
			HORIZON	SPT - N BLOWS/FT.	TYPE	RECOVERY, in. %	KDOT TEXTURAL SYMBOL	IN-SITU MOISTURE, %	IN-SITU DRY DENSITY, PCF	KDOT SAMPLE NUMBER
	CLAYEY SHALE, Moderately Hard, Moderately Weathered, Solid, Maroon to Light Gray (Eskridge) (Cont'd)	35			DB	95 %			R6 NX	
		40			DB	27 %			R7 NX	
	45.5 1172.2	45			DB	100 %			R8 NX	
	**SHALE, Moderately Hard, Slightly Weathered, Solid, Calcareous, Bright Maroon (Eskridge) Light Gray Limestone @ 50.4' to 50.5' (Neva)	50								
	BOTTOM OF BORING ** Classification estimated from disturbed samples. Core samples and petrographic analysis may reveal other rock types.									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WATER LEVEL OBSERVATIONS			BORING STARTED 7-14-93	
WL	10.5	W.D. 2.5 A.C.R.	BORING COMPLETED 7-14-93	
WL			RIG CME 45	FOREMAN LR
WL			APPROVED EMK	JOB # 02905163C

