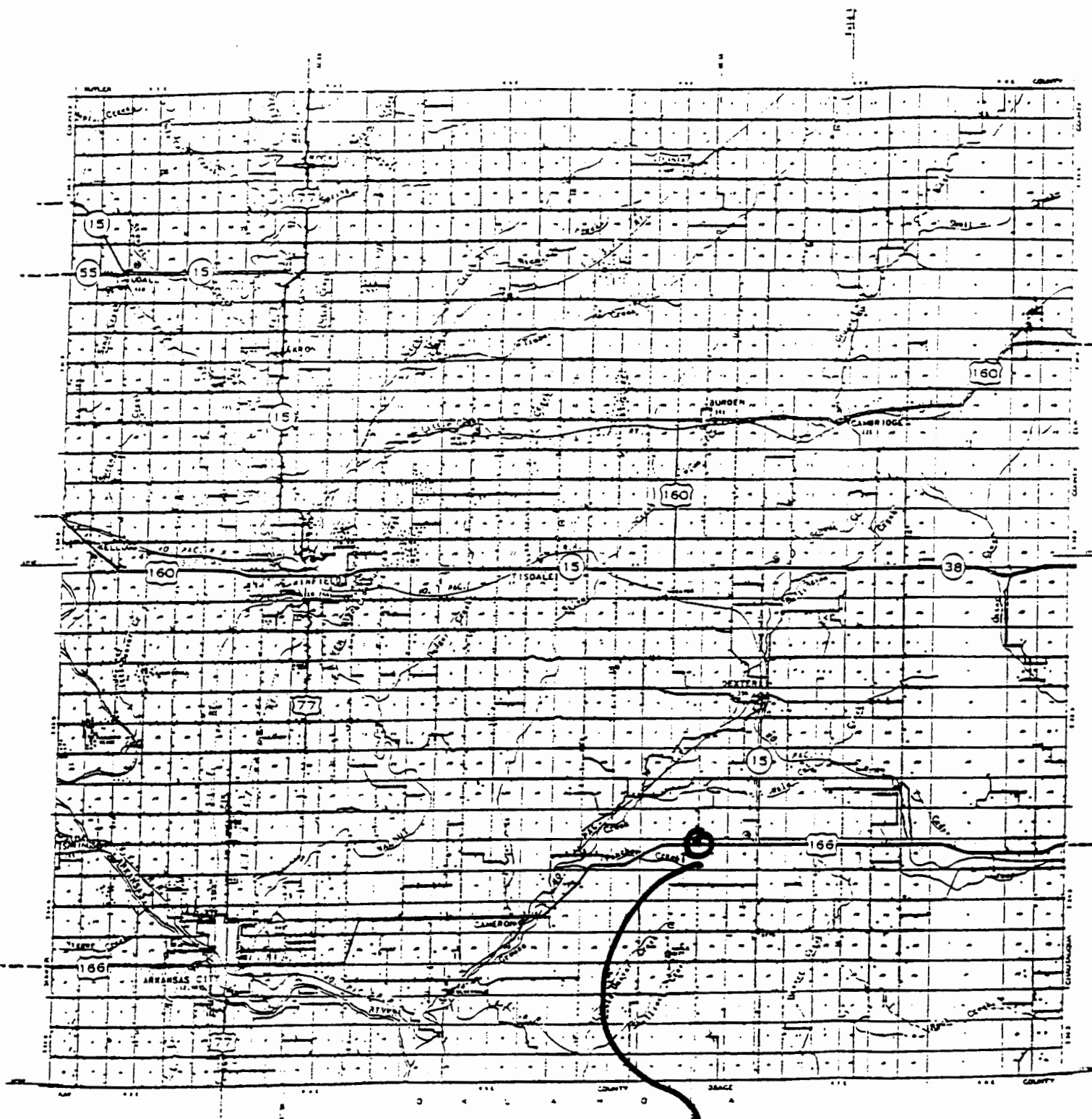


BRIDGE FOUNDATION GEOLOGY REPORT
Job No. 02905163C



166-18 K-435501
Cowley County
Bridge at Sta. 869+87

COWLEY-18

Nw 11-343-6E

0-40'

Council Grove

Spiser - Funston - Blue Rapids sh
limestone

LOG OF STATION: 869+16, LT 20', BORING NO. B-3-3

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OWNER KANSAS DEPARTMENT OF TRANSPORTATION				ENGINEER COOK, FLATT & STROBELL			
SITE COWLEY COUNTY, KANSAS				PROJECT 166-18K-4355-01			
GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	HORIZON	SAMPLES			TESTS
				SPT - N BLOWS/FT.	TYPE	RECOVERY, in.	TESTS
	Surface Elevation: 1201.30 ft. Station: 869+16, LT 20'						
	SILTY CLAY , Very Dark Gray Brown, 10YR 3/2				PA		
	3.6 1197.7						
	5.0 SILTY CLAY with Gravel, Very Dark Gray Brown, 10YR 3/2	1196.3	1		ST	10	24.1 88
	SILTY CLAY with Gravel, Reddish Brown, 5YR 4/4, Cobble @ 7.4' to 7.7'	1192.7			PA		
	8.6						
	**HIGHLY WEATHERED SHALE , with Limestone Fragments, Maroon	1190.6	2	24	SS	15	24.1
	10.7				PA		
	**WEATHERED SHALE , Maroon, (Speiser)	1187.7					
	13.6						
	**SHALE , Maroon (Spieser)	1183.3	3	28	SS	18	31.4
	18.0				PA		
	**SHALEY LIMESTONE , Light Gray, Shale Breaks @ 21.1' to 21.4' and 21.8' (Funston)	1177.4					
	23.9						
	**LIMESTONE , Hard, Light Gray (Funston)	1173.9					
	27.4						
	28.0 **SHALE (Funston)	1173.3					
	28.6 **SANDSTONE (Funston)	1172.7					
	BOTTOM OF BORING **Classification estimated from disturbed samples. Core samples and petrographic analysis may reveal 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				BORING STARTED 6-25-93			
WL	8.0	W.D.	7.2	A.B.	BORING COMPLETED 6-25-93		
WL					RIG	CME 45	FOREMAN EK
WL	7.5' @ 24 Hrs. A.B.				APPROVED	EMK	JOB # 02905163C

Terracon