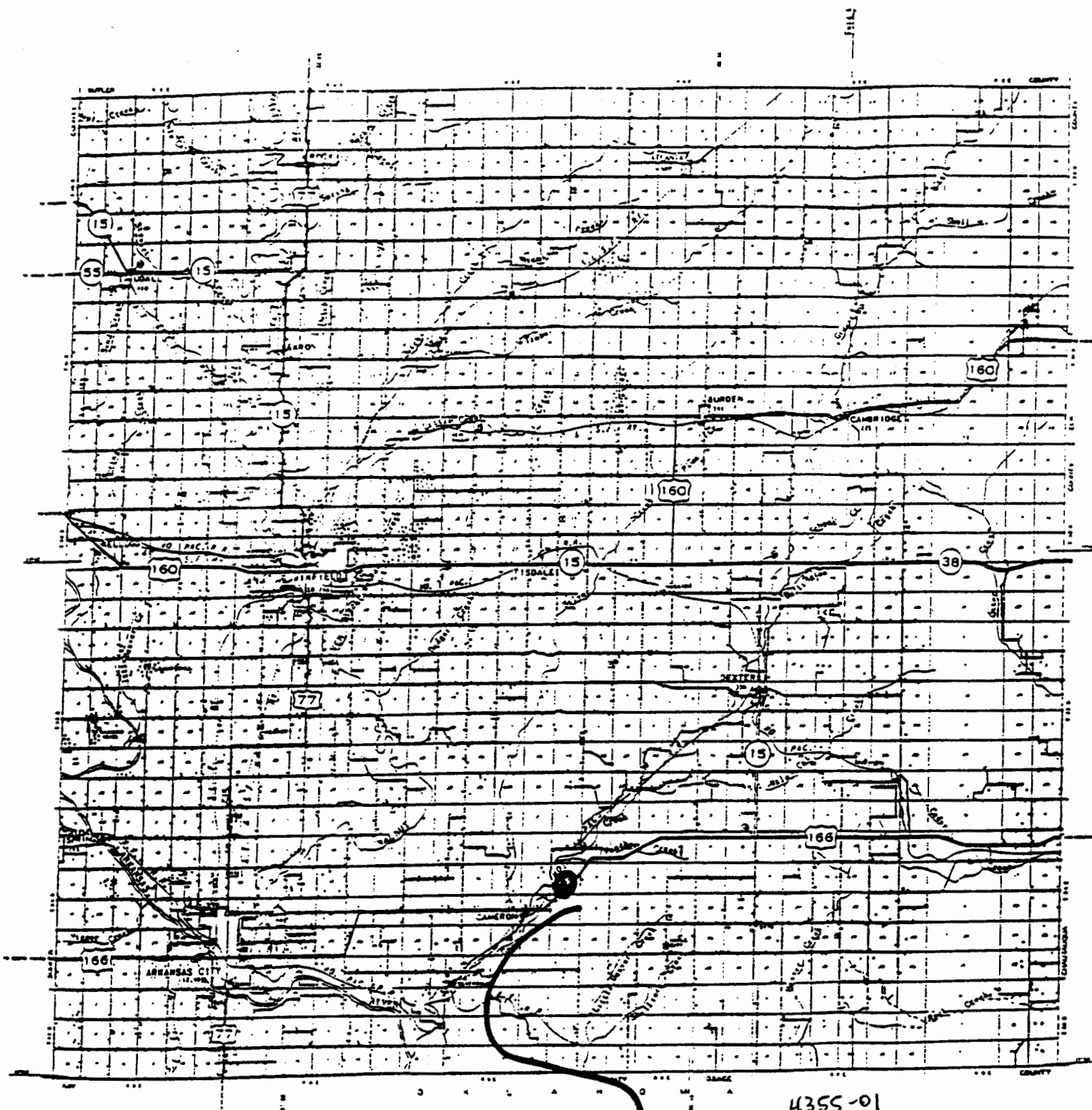


BRIDGE FOUNDATION GEOLOGY REPORT

Job No. 02905163C



4355-01

166-18 K-435501
Cowley County
Bridge at Sta. 599+75

COWLEY-18

C-13-345-5E

0-44

Council Grove

Crook Limestone to Early Creek SH

LOG OF STATION: 600+30, RT 10', BORING NO. B-1-4

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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.	KDOT TEXTURAL SYMBOL	IN-SITU MOISTURE, %	IN-SITU DRY DENSITY, PCF	KDOT SAMPLE NUMBER	LL, PL, PI	
	Surface Elevation: 1097.66 ft. Station: 600+30, RT 10'											
	<u>SILTY CLAY LOAM</u> , Very Dark Gray Brown, 10YR 3/2	4.0			PA							
		1093.7										
	<u>SILTY CLAY</u> , Very Dark Gray Brown, 10YR 3/2 (possible clay)	5.0	1	16	SS	18		22.6				
					PA							
	<u>SILTY CLAY</u> , Trace Chert Fragments, Dark Brown, 10YR 3/3	9.0										
		1088.7										
	<u>SILTY CLAY</u> , Trace Chert Fragments, Dark Brown, 10YR 3/3	11.0	2	13	SS	18		22.4				
		1086.7			PA							
	<u>SILTY CLAY</u> , Brown to Dark Brown, 10YR 4/3	15.0										
			3	5	SS	18		29.4				40,21,19
					PA							
	<u>SILTY CLAY</u> , Brown to Dark Brown, 10YR 4/3	20.5										
		1077.2										
	<u>SILTY CLAY</u> , Trace Sand, Brown, 10YR 5/3	25.0	4	9	SS	18		26.5				
					PA							
	<u>SILTY CLAY</u> , Trace Sand, Brown, 10YR 5/3	26.0	5	12	SS	0						
		1071.7			PA							
	<u>CHERT PIECES WITH CLAY</u> , Brown to Dark Brown, 10YR 4/3	30.1										
		1067.6										
	<u>CHERT PIECES WITH CLAY</u> , Brown to Dark Brown, 10YR 4/3		650/1"		SS	4		16.1				
					PA							
	**LIMESTONE , with Shale Partings, Light Gray, (Crouse) Continued Next Page											

LOG OF STATION: 600+30, RT 10', BORING NO. B-1-4

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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.)	SAMPLE NUMBER	SAMPLES				TESTS	
				SPT - N BLOWS/FT.	TYPE	RECOVERY, in.	KDOT TEXTURAL SYMBOL	IN-SITU MOISTURE, %	IN-SITU DRY DENSITY, PCF
	Shale Break @ 36.3' to 36.5'	35							
	38.0 1059.7								
	39.6 **SHALEY LIMESTONE, Gray 1058.1	40							
	**LIMEY SHALE, Gray, (Easley Creek)								
	44.0 1053.7								
	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				Terracon	BORING STARTED 6-29-93		
WL	11.0	W.D.	11.0		A.B.	BORING COMPLETED 6-29-93	
WL						RIG CME 55	FOREMAN LR
WL	11.0 24hrs A.B.				APPROVED EMK	JOB # 02905163C	