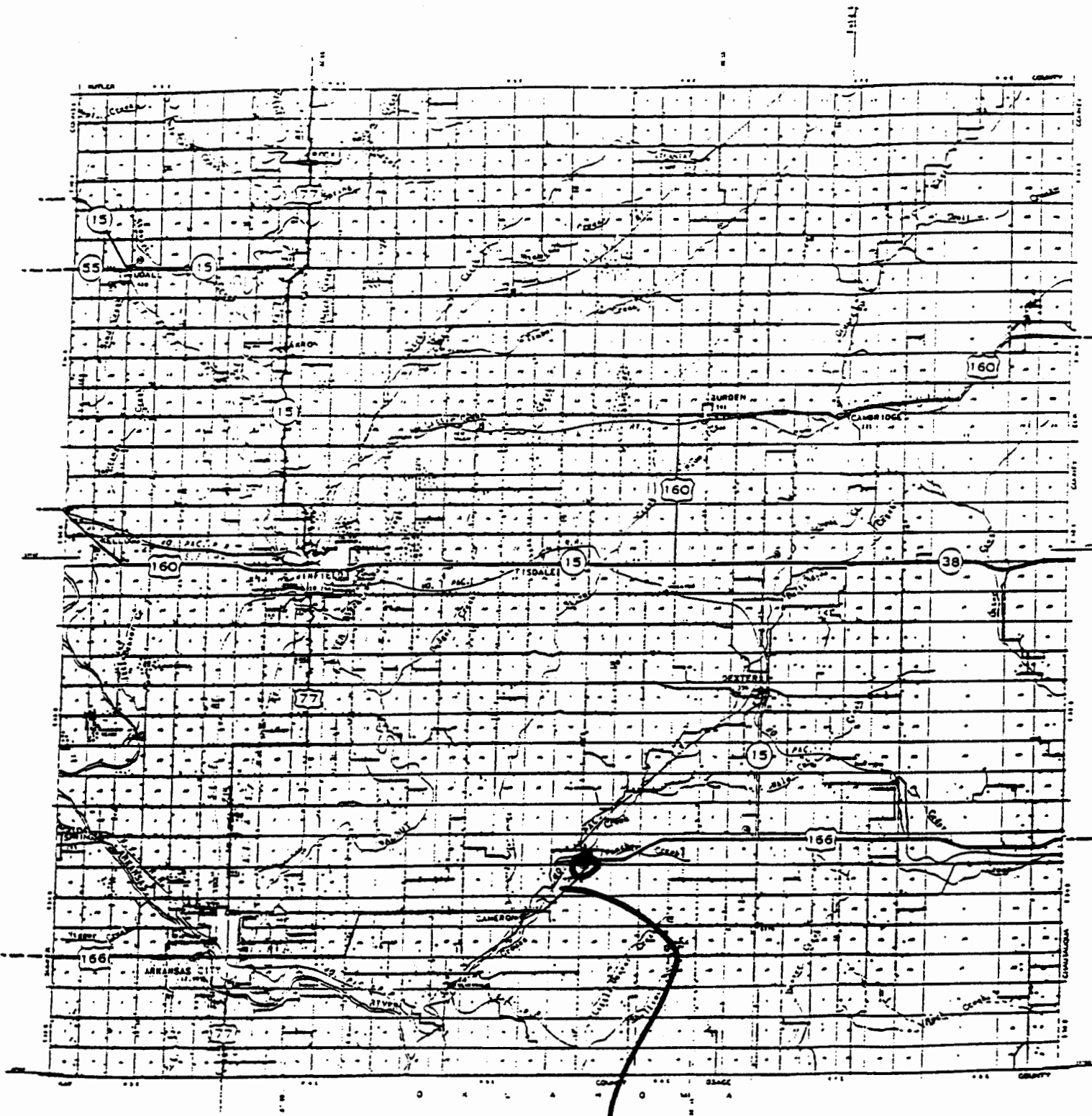


BRIDGE FOUNDATION GEOLOGY REPORT
Job No. 02905163C



166-18 K-435501
• Cowley County
Bridge at Sta. 659+30

COWLEY-18

C-52-7-34J-6E

0-40'

Council Grove

Crouse limestone to Easty Creek SM

LOG OF STATION: 660+17 RT 18', BORING NO. B-2-1





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
		SPT - N BLOWS/FT.	TESTS
		TYPE	RECOVERY, in.
		KDOT TEXTURAL SYMBOL	IN-SITU MOISTURE, %
		KDOT TEXTURAL SYMBOL	IN-SITU DRY DENSITY, PCF
		KDOT TEXTURAL SYMBOL	KDOT SAMPLE NUMBER
		KDOT TEXTURAL SYMBOL	LL, ATTERBERG PL, LIMITS & PI, QU RESULTS
0.6	7" TOPSOIL	1100.7	
4.5	SILTY CLAY, Very Dark Brown, 10YR 2/2	1096.8	
5.0	SILTY CLAY, Dark Brown, 10YR 3/3	1096.3	6060
8.0	SILTY CLAY LOAM, Dark Brown, 10YR 3/3	1093.3	48,20,28
11.1	SILTY CLAY LOAM, Brown, 10YR 4/3	1090.2	
13.0	SILTY CLAY, With Gravel, Brown, 10YR 4/3	1088.3	5480
18.0	SILTY CLAY LOAM, With to Trace Sand and Gravel, Alluvium, Brown Gray, 10YR 5/2	1083.3	45,22,23
19.1	CLAY, Trace Sand, Very Dark Gray, 10YR 3/1	1082.2	
20.2	SILTY CLAY LOAM, With Limestone Gravel, Brown, 10YR 4/3	1081.1	
28.9	LIMESTONE, Solid, Hard, Thin wavy beds, Light Gray, 1-3" Shale Seams @ 25.7', 26.3' and 26.8'. Last 0.9' very Shaley (Crouse)	1072.4	
	SHALE, Solid, Hard, Calcareous, Gray (Easley Creek)		

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="font-size: 2em;">Terracon</h2>	BORING STARTED 6-15-93		
WL 16.5	W.D. 12.5		B.C.R.	BORING COMPLETED 6-16-93	
WL 5.5	A.C.R.		RIG CME 55	FOREMAN EK	
WL			APPROVED EMK	JOB # 02905163C	

LOG OF STATION: 660+17 RT 18', BORING NO. B-2-1

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
	34.2 1067.1								
	SHALE, Solid, Hard, Calcareous, Maroon, Slicken sides (Easley Creek)	35							
	38.2 1063.1								
	LIMESTONE, Solid, Hard, Whitish Gray, Thin Bedded with Maroon Shale Partings (Easley Creek)	40							
	40.5 1060.8								
	BOTTOM OF BORING								

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

WATER LEVEL OBSERVATIONS			
WL	∇ 16.5	W.D. ∇ 12.5	B.C.R.
WL	5.5	A.C.R.	
WL			



BORING STARTED	6-15-93
BORING COMPLETED	6-16-93
RIG CME 55	FOREMAN EK
APPROVED EMK	JOB # 02905163C