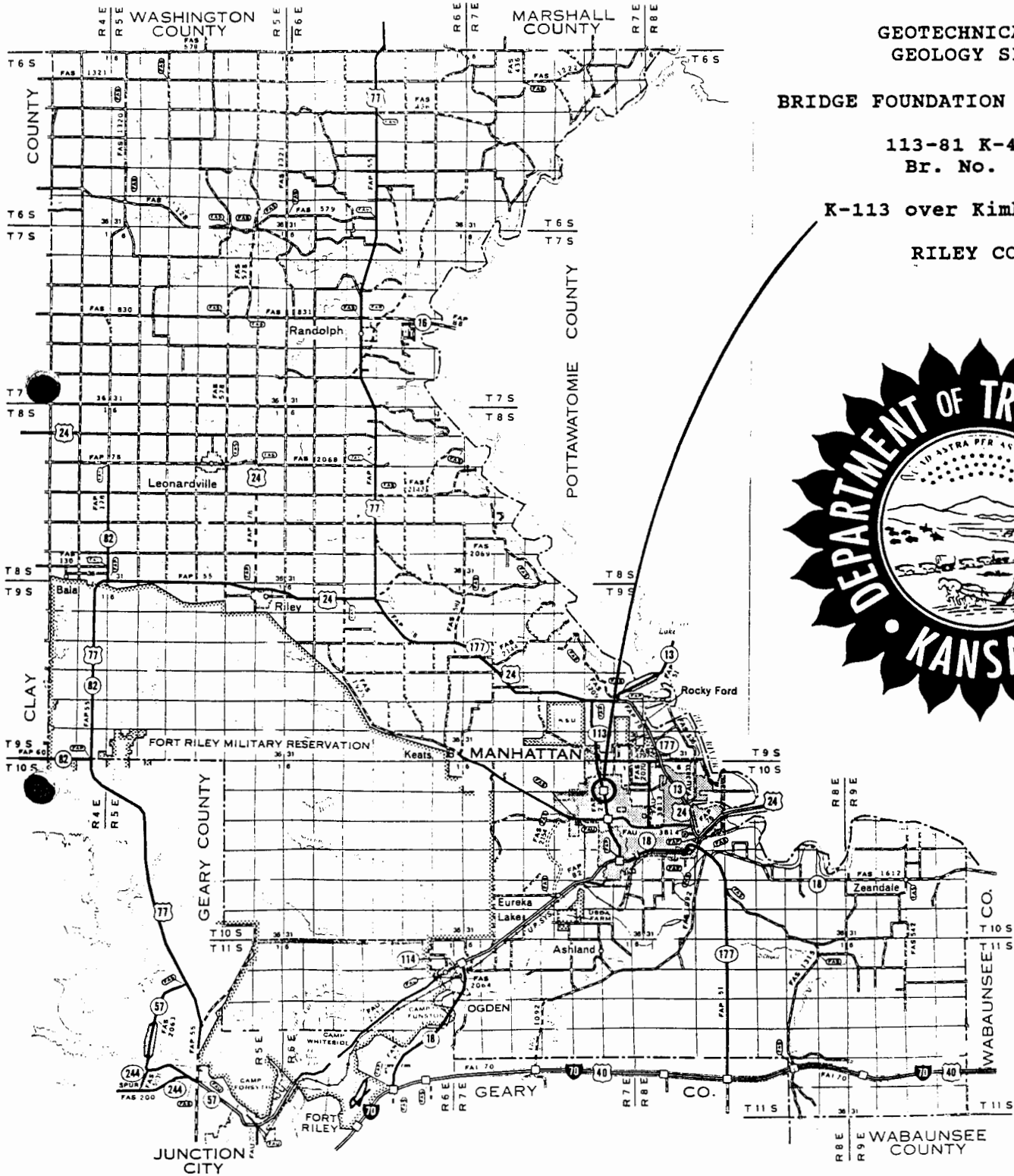


2BB2



GEOTECHNICAL UNIT
GEOLOGY SECTION

BRIDGE FOUNDATION GEOLOGY REPORT

113-81 K-4438-01
Br. No. 2.55

K-113 over Kimball Avenue

RILEY COUNTY



KANSAS DEPARTMENT OF TRANSPORTATION



1. ROUTE-COUNTY NO. 113-81	7. SOUNDING NO. CD#1	12. SHEET 1 OF 2
2. BRIDGE STA. 154+30.60	8. PROJECT NO. K-4438-01	13. BRIDGE NO. 2.55
3. DESCRIPTION K-113 over Kimball Ave. (Abut. #1)		14. HOLE STA. 153+36, 441'
4. GEOLOGIST Art Peterson	9. VERTICLE SCALE 1"=10'	15. DATE 1-19-94
5. DRILLER Bob Bergman	10. RIG B-61	16. ELEVATION TOP OF HOLE 1121.3
6. GROUND WATER ELEV. 1089.9	11. TOTAL DEPTH OF HOLE 66 1/2	17. ELEVATION TOP OF ROCK 1094.3

BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV.
					Abut # 1 T.H.E.I. = 1121.3			
				1120	Silty clay, brown to orange			1120
			1113	1111.0	Silt, clay binder, olive to green			1110
			1913	1102.0	Silt, clay binder, gray-olive			1100
			25 1/8 27 1/8	1095.5 1094.3	Gravel, limestone			1095.5 1094.3
				1090	Limestone, gray with orange staining (iron), containing voids (28.8-30.7) and solutioning lost circulation			1090
			32 1/8 33 1/4	1088.5 1087.4	Shale, green-gray Limestone, tan-gray, orange staining, solutioned, lost circulation	Sa#1	Qu=293.63	1087.2
			39 1/2 41 1/2 42 1/2	1081.8 1080.1	Shale, dark gray-gray Limestone, gray, solutioned			1080
			45 1/8 46 1/8	1078.6 1075.9	Shale, dark gray-gray, calcareous Limestone, shaly, gray	Sa#2	Qu=135.78	1075.3
			50 1/2	1074.7	Shale, green-gray	Sa#4	Qu=8.40	1072.3
			57 1/4	1071.2	Limestone, lt gray-gray, dense	Sa#5	Qu=89.42	1069.9
			59 1/4 56 1/2 57 1/4	1066.9 1065.2	Shale, dk gray to black, fissile Limestone, gray, fossiliferous	Sa#6	Qu=163.67	1064.9
			61 1/2	1063.9	Shale, gray, calcareous			1060
			62.6	1059.8	Limestone, gray to lt gray			
			66 1/2	1058.7	Shale, greenish-gray with some maroon			
			TD	1054.9				

5 1/2" Diamond core bit

3 1/2" Hawthorne
Mantle

5 1/2" wash Diamond bit

Newa Limestone Member

VOID

Salem Point Sh. Mbr.

Burr Ls Mbr.

Legion sh. Mbr.

Sallyards Ls Mbr.

Roca Shale Fr.

Bottom discharge Carbide core bit

Pushed casing hydraulically

Ref. 101 B.P.T.

DRILLING LOG (con't sheet)		7. SOUNDING NO. CD#1		8. PROJECT NO. K-4438-01		9. SHEET 2 OF 2		
10. ELEVATION TOP OF HOLE 1121.3		6. GROUND WATER ELEV. 1089.9		4. TOTAL DEPTH OF HOLE 66 ⁴		11. ELEVATION TOP OF ROCK 1094.3		
BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV.
					<u>Core #1:</u> 27 ² - 30 ⁷ (1094.1 - 1090.6) Cut 3 ⁵ Rec 1 ⁴ Core Rec. 40% RQD 0%			
					<u>Core #2:</u> 32 ⁷ - 37 ³ (1088.7 - 1084.0) Cut 4 ⁷ Rec. 2 ⁰ Core Rec. 43% RQD 20%			
					<u>Core #3:</u> 37 ³ - 37 ⁶ (1084.0 - 1083.7) Cut 0 ³ Rec. 0 ³ Core Rec. 100% RQD 0%			
					<u>Core #4:</u> 44 ⁰ - 47 ⁸ (1077.3 - 1073.5) Cut 3 ⁸ Rec. 3 ⁸ Core Rec. 100% RQD 64%			
					<u>Core #5:</u> 47 ⁸ - 52 ⁸ (1073.5 - 1068.5) Cut 5 ⁰ Rec. 5 ⁰ Core Rec. 100% RQD 28%			
					<u>Core #6:</u> 52 ⁸ - 57 ³ (1068.5 - 1064.0) Cut 4 ⁵ Rec. 4 ⁵ Core Rec. 100% RQD 27%			
					<u>Core #7:</u> 57 ³ - 61 ⁹ (1064.0 - 1059.4) Cut 4 ⁶ Rec. 4 ⁶ Core Rec. 100% RQD 90%			
					<u>Core #8:</u> 61 ⁹ - 66 ⁴ (1059.4 - 1054.9) Cut 4 ⁵ Rec. 4 ⁵ Core Rec. 100% RQD 29%			