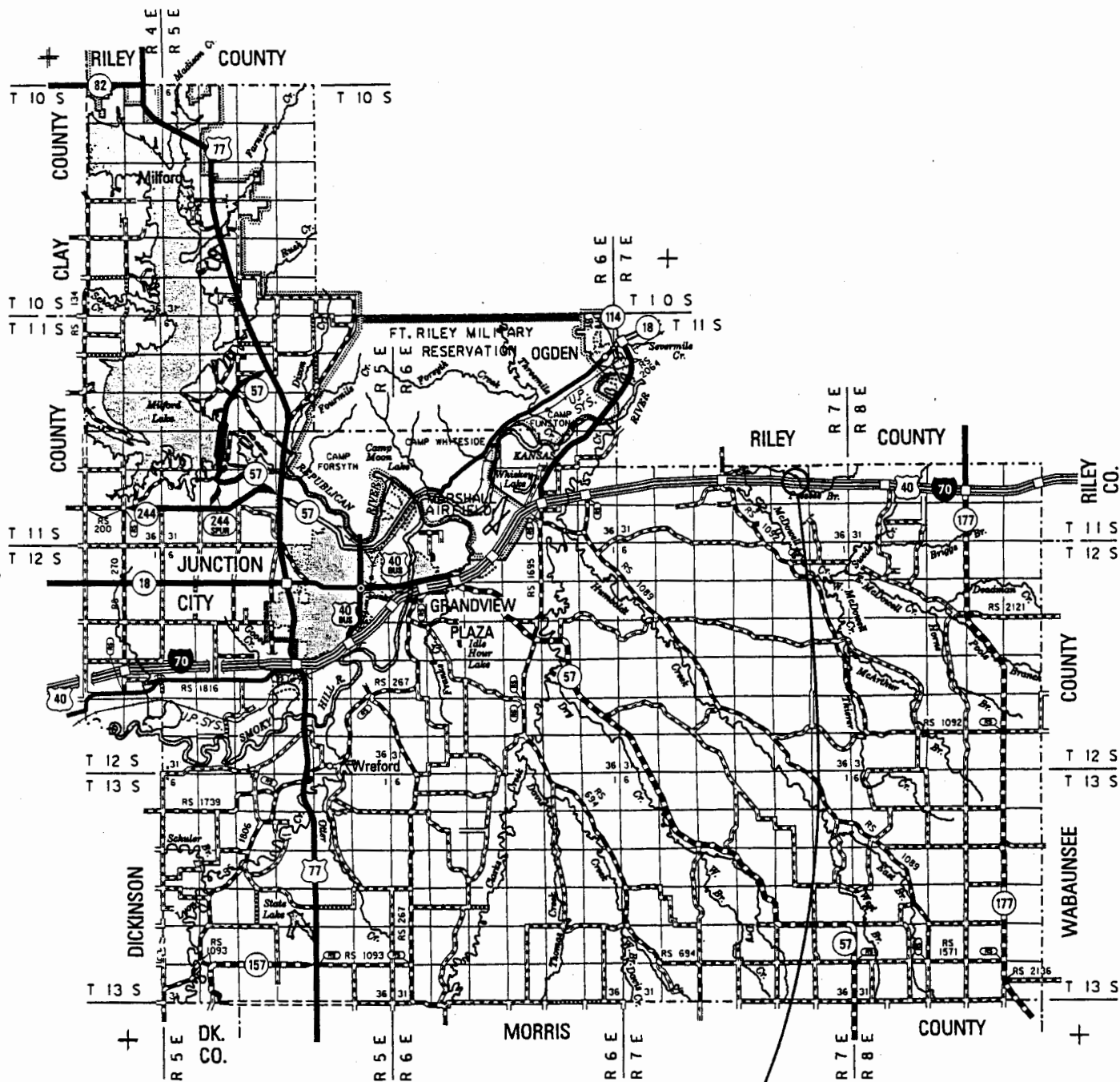




**GEOTECHNICAL UNIT
GEOLOGY SECTION**

BRIDGE FOUNDATION GEOLOGY REPORT

70-31 K-5086-01

**Br. No's 18.32 and 18.33
1-70 over McDowell Branch**

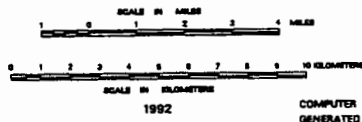
GEARY COUNTY

**GENERAL HIGHWAY MAP
GEARY COUNTY
KANSAS**

PREPARED BY THE
KANSAS DEPARTMENT OF TRANSPORTATION
BUREAU OF TRANSPORTATION PLANNING
IN COOPERATION WITH THE
U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

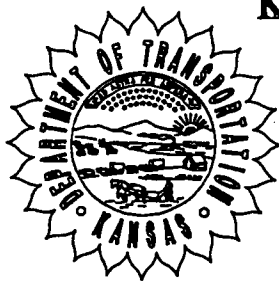


RS SYSTEM REVISED TO OCTOBER 15, 1983



COMPUTER
GENERATED

2DDP



KANSAS DEPARTMENT OF TRANSPORTATION

1. ROUTE-COUNTY NO. 70-31	7. SOUNDING NO. CD # 2	2. SHEET OF
2. BRIDGE STA. 481+90.08	8. PROJECT NO. K-5086-01	3. BRIDGE NO. 18.32
3. DESCRIPTION I-70 over McDowell Creek Branch	4. HOLE STA. 482+44, Rt. 95	5. DATE 1-30-95
6. GEOLOGIST R. Hutchinson	9. VERTICLE SCALE 1" = 10'	6. ELEVATION TOP OF HOLE 1110.5
7. DRILLER Bob Bergman	10. RIG B-61	7. ELEVATION TOP OF ROCK 1083.1
8. GROUND WATER ELEV. 1102.5	11. TOTAL DEPTH OF HOLE 60.2	

BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV.
				1110	T.H.E. - 1110.5			
3 1/2" "N" Hawthorne	ALLUVIUM			1100	Silty Clay, brown			
			10'	1100.4				1100.4
			16'	1094.5	Silty Clay, brown with scattered gravel			
			19'	1091.5	Heavy Ls. Gravel			
			22'	1088.5	Silty Clay, brown with scattered gravel			
			25'	1084.5	Gravel, multi-colored, cherty with some clay binder			
			27'	1083.1	Heavy multi-colored gravel, cherty			
			28'	1081.9	Sh. multi-color, gray-green-maroon silty-lmy w/ lmy stringers		63	1081.9
Carbide Core Bit	Eskridge Shale		36'	1074.5		Sam #1	Qu. - 678	1077.2
			37'	1073.0	Ls. light gray	Sam #2	Qu. - 4828	1074.7
				1070	Ls. shly, foss., gray w/ thin sh. seams	Sam #3	Qu. - 394	1073.0
						Sam #4	Qu. - 476	1070.4
Diamond Core Bit	Neva Limestone Member		45'	1065.0	Ls. vuggy, foss. light gray to gray	Sam #5	Qu. - 444	1065.5
			49'	1060.6	Ls. shly, gray, foss. w/ sh. seams	Sam #6	Qu. - 8836	1059.5
			51'	1057.9	Ls. light gray	Sam #7	Qu. - 24700	1057.9
					Sh. lmy, green-gray, laminated			
					shly Ls. light gray			
					Sh. gray, lmy			
Carbide Core Bit	Salem Point Shale Member		56'	1054.5				
			57'	1053.0				
			60'	1050.5				
			TD					