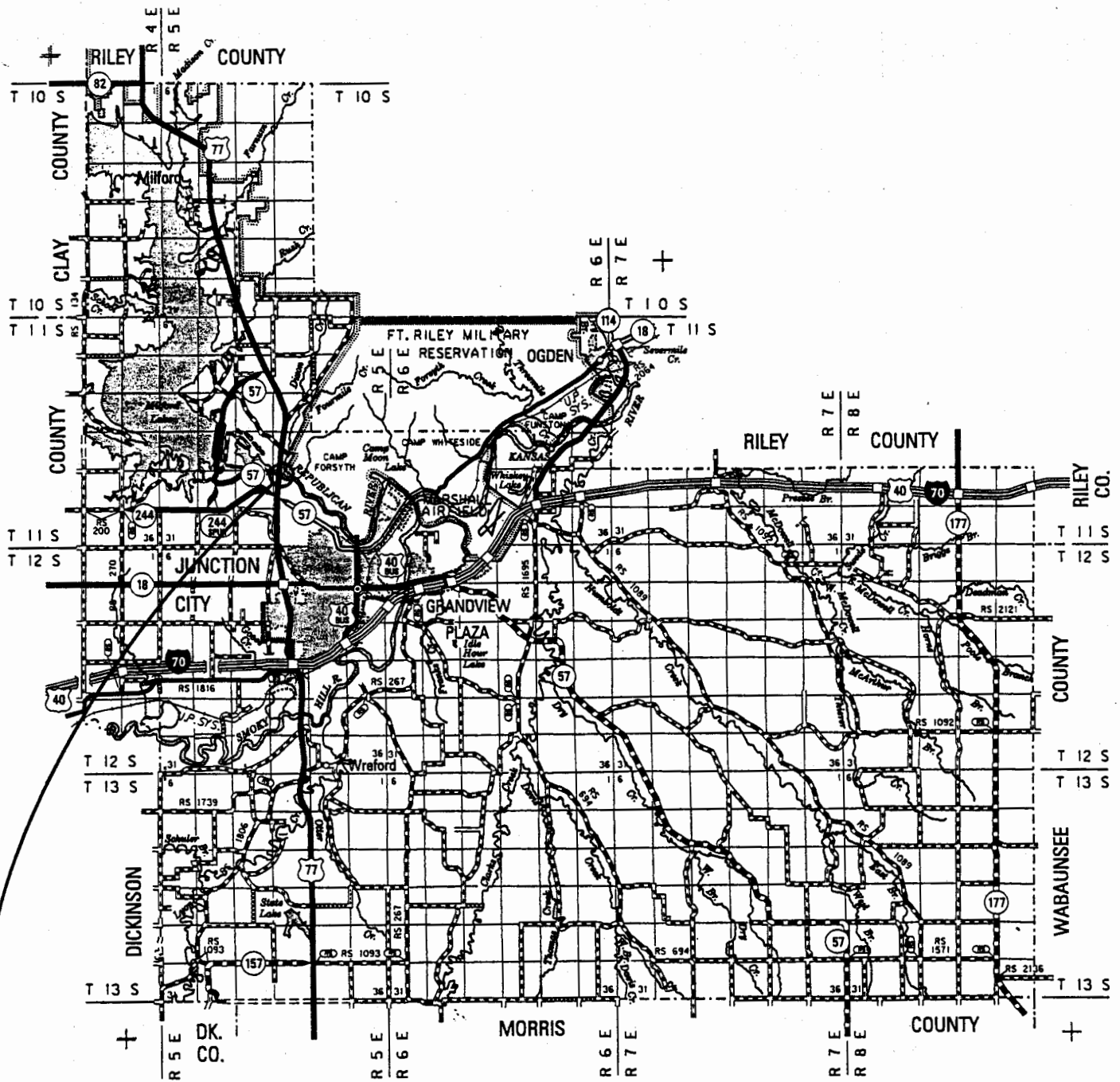




Proj. No. 77-31 K-5373-01
 Bridge No. 14.06 (076)
 US-77 over Republican River
 Sta. 10+790.500


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

SCALE IN MILES
 0 1 2 3 4 5 6 7 8 9 10

SCALE IN KILOMETERS
 0 1 2 3 4 5 6 7 8 9 10

RS SYSTEM REVISED TO OCTOBER 15, 1983
 1982
 COMPUTER GENERATED



2CB0



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO. 77-31	SOUNDING NO. CD#1	SHEET 1 OF 2
BRIDGE STA 10+790 ⁵⁰⁰	PROJ.NO. K-5373-01	BRIDGE NO.
SITE NAME US-77 over Republican River	HOLE STA. 10+905 ⁵⁰ , 9 ⁸⁰ Rt	
GEOLOGIST A. Peterson	SCALE: 1:100 (10mm = 2 Meter)	DATE 11-2-95
DRILLER B. Bergman	RIG TYPE B-61	TOP HOLE ELEV. 327 ²⁸⁵
GROUNDWATER ELEV 322 ⁵⁹	TOTAL DEPTH 16 ¹⁰⁰	M/B ELEV. 315 ⁹⁹⁵

BIT TYPE	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV
					Abut #2			
					T.H.E. = 327 ²⁸⁵			
			60	327	326.685 Silt, sandy, brown			
				325	Sand, fine		8	325.335
				323			19	323.835
				321			9	322.335
				319			9	320.835
			76	319	Sand medium to coarse with gravel		16	319.335
				317			15	317.835
			36	317	316 ⁹⁸⁵			317
				315	315 ⁹⁹⁵ coarse gravel & sand		27	316.335
			26	315	315 ²⁶⁵ Limestone, buff-white, fractured weathered, chert nodules		60	315.285
			23	314	314 ⁶⁹⁵ Limestone, lt gray, chert nodule, shale stringer	Sa #1	Qu = 57.485 MPa	314.645
			13B	314	314 ⁰⁹⁵ Shale, dk gray to gray, limy, fossils	Sa #2	Qu = 28.194 MPa	313.865
			13.41	313	313 ⁸⁷⁵ Limestone, light gray			313
				313	Shale, green to gray	Sa #3	Qu = 11.062 MPa	312.715
			49	312	312 ⁷⁹⁵ shale, limy, maroon and green	Sa #4	Qu = 5.209 MPa	311.935

SOUNDING NO. <u>CD #1</u>		PROJECT NO. <u>K-5373-a</u>		SHEET <u>2</u> OF <u>2</u>				
DATE <u>11-2-95</u>		RTE./CO. <u>77-31</u>		TOTAL DEPTH <u>16¹⁰⁰</u>				
THE <u>327²⁸⁵</u>								
BIT TYPE	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV
Speller	Core 4		16 ¹⁰	311	Shale, limy, maroon and green <u>311.185</u>			311
					Core #1, 11 ⁴⁴ - 12 ⁰² (315.845 - 315.265) Cut 0 ⁵⁸ Rec 0 ⁵⁸ Core Rec 100% RQD 0%			
					Core #2, 12 ⁰² - 13 ²⁰ (315.265 - 314.085) Cut 1 ¹⁸ Rec 1 ¹⁸ Core Rec 100% RQD 70%			
					Core #3, 13 ²⁰ - 14 ⁷² (314.085 - 312.565) Cut 1 ⁵² Rec 1 ^{37.5} Core Rec 90% RQD 90%			
					Core #4, 14 ⁷² - 16 ¹⁰ (312.565 - 311.185) Cut 1 ³⁸ Rec 1 ³¹ Core Rec. 95% RQD 79%			