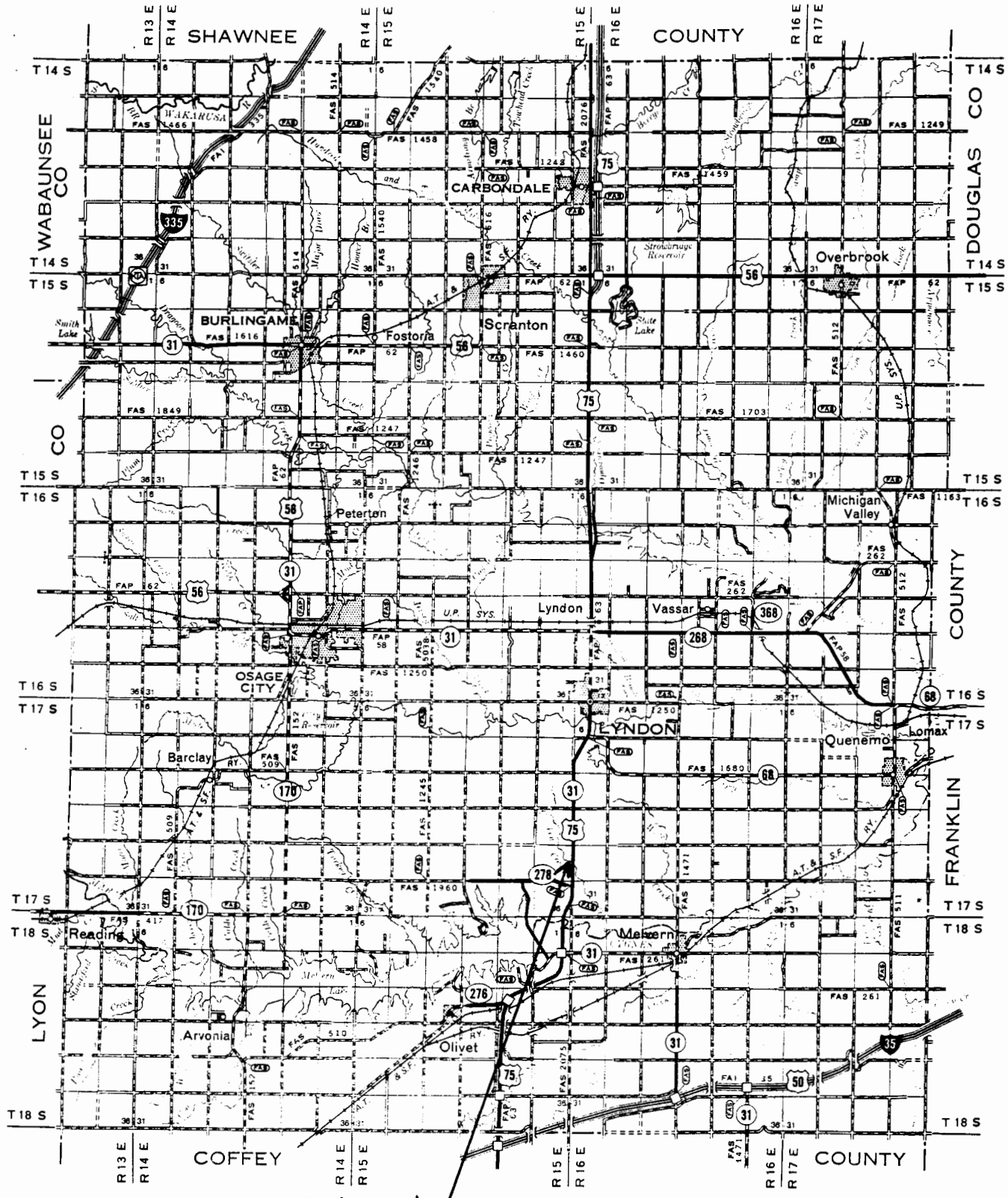

Project # 075-070 K-4690-01

Bridge # 8.23

U.S. 75 over Chicken Creek

LEGEND

ROADS AND ROADWAY FEATURES

- PRIMITIVE ROAD
- UNIMPROVED ROAD
- GRADED AND DRAINED ROAD
- SOIL SURFACED ROAD
- GRAVEL OR STONE ROAD—NOT GRADED OR DRAINED
- GRAVEL OR STONE ROAD—GRADED AND DRAINED
- GRAVEL OR STONE ROAD WITH STABILIZED SURFACE
- BITUMINOUS ROAD—LOW TYPE
- PAVED ROAD
- DIVIDED HIGHWAY
- HIGHWAY WITH FULL CONTROL OF ACCESS AND INTERCHANGE

ROAD SYSTEM DESIGNATION

- FEDERAL-AID INTERSTATE HIGHWAY SYSTEM
- FEDERAL-AID PRIMARY HIGHWAY SYSTEM
- FEDERAL-AID SECONDARY HIGHWAY SYSTEM
- INTERSTATE NUMBERED HIGHWAY
- U.S. NUMBERED HIGHWAY
- STATE HIGHWAY SYSTEM OR STATE NUMBERED HIGHWAY
- END OF DESIGNATED SYSTEM OR MARKED ROUTE

KEY TO COUNTIES

FA SYSTEM REVISED TO DEC. 1, 1988

GENERAL HIGHWAY MAP
OSAGE 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

1986

KANSAS DEPARTMENT OF TRANSPORTATION

1. ROUTE-COUNTY NO. 075-070	7. SOUNDING NO. 1	12. SHEET 01 OF 03
2. BRIDGE STA. 96+24.58	8. PROJECT NO. K-4690-01	13. BRIDGE NO. 8.23
3. DESCRIPTION U.S. 75 over Chicken Creek		14. HOLE STA. 96+85 ℄
4. GEOLOGIST Thompson	9. VERTICLE SCALE 1"=10'	15. DATE 6-20-95
5. DRILLER Sunderland	10. RIG B-61	16. ELEVATION TOP OF HOLE 1013.7
6. GROUND WATER ELEV. 1011.7	11. TOTAL DEPTH OF HOLE 42'	17. ELEVATION TOP OF ROCK 1006.2

BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	STANDARD PENETRATION OR CASING DRIVE ELEV.
			0°	1013.7				
Casing	Mantle		7.5	1010 / 1006.2	Mantle - Silty clay, brown Heavy limestone rubble 1010.2 - 1007.8			1010
Diamond	Doniphan Mbr.	1	10.4	1003.3	Shale, limy, gray, very firm	21.57		1003.4
			11.8	1002.1	Limestone, shaly			
		2		1000	Shale, light gray	8.25		999.6
			18'	995.6	Shale, light gray, sandy Shale, dark gray, limy			1000
		3	20.2	993.5	Limestone, shaly	47.8		994.6
			22.3	991.4	Shale, limy, dark gray	35.77		992.5
		4	23.8	989.9	Limestone, Shaly	40.8		990.3
					Shale, dark gray	16.4		987.2
		5	28.9	984.8		11.4		985.6
	Spring Branch Mbr.				Limestone, light gray	444.2		984.5
		6	33.8	979.9		659.9		980.3
			35.3	978.4	Shale, limy, dark gray	15.8		978.6
		7	39°	974.7	Limestone, light gray	1165.6		976.1
	Stull Mbr.		42'	971.6	Shale, Sandy/Sandstone lenses, gray			
				970				990
				960				980

Core Hole 1

075-070 K-4690-D1 U.S. 75 over Chicken Creek 02/03

Core 1

7⁹ - 12⁹
Cored 5⁰
Recov. 5⁰
RQD = 72%

	7⁹-10²	Shale, gray, very firm
	10²-10⁴	Shale, limy
	10⁴-11⁵	Limestone, very impure
	11⁵-12⁹	Shale, clayey, light gray
Sample 1	9⁷-10³⁵	Limestone, impure

Core 2

12⁹ - 17⁴
cored 4⁵
Recov. 3⁵
RQD = 71%

	12⁹-13⁶	Shale, sandy to x-bedded sandstone
	13⁶-16³⁵	Shale, slightly sandy, gray/dark gray
	16³⁵-17⁴	? pyrite crystals
Sample 2	13⁶-14¹⁵	shale, slightly sandy, dark gray

Core 3

17⁴ - 22'
cored 4⁷
Recov. 4⁷
RQD = 98%

	17⁴-18'	Shale, limy, dark gray
	18'-20²	Limestone, shaly, impure
	20²-21⁵	Shale, limy, gray,
	21⁵-22'	Shale, dark gray
Sample 3	18⁵-19'	Limestone, shaly
Sample 4	19-20⁶	Shale, limy

Core 4

22' - 27'
Cored 5⁰
Recov. 5⁰
RQD = 94%

	22'-22³	Shale. gray
	22³-23³	Limestone, shaly, light gray
	23⁸-24⁸	Shale, limy, dark gray
	24⁸-27'	Shale, clayey, dark gray
Sample 5	22⁹-23⁴⁵	Limestone
Sample 6	25⁶-26⁵	shale

Doniphan Mbr.

075-070 K-4690-01 03/03

Core 5
27'-32'
Cored 5°
Recov. 4⁹
RQD = 90%

27'-28⁹ Shale, dark gray
28⁹-30³ Limestone, dense, light gray
30³-30⁷ Shale, limy, dark gray
30⁷-32⁰ Limestone, dense, light gray

Sample 7 27³-28' Shale
Sample 8 28⁹-29⁷ Limestone

Core 6
32'-37'
Cored 5°
Recov 5°
RQD = 100%

32'-33⁸ Limestone, dense, light gray
33⁸-35³ Shale, dark gray, limy
35³-37' Limestone, light gray

Sample 9 32⁶-33⁴ Limestone
Sample 10 34²-35' Shale, dark gray

Core 7
37'-42'
Cored 5°
Recov. 4⁹
RQD = 100%

37'-39⁰ Limestone, light gray
39⁰-40' Shale, limy, dark gray
40'-42' Shale, very sandy to Sandstone X-bedded

Sample 11 37'-37⁶ Limestone

Doniphan Mbr.
Spring Branch Mbr.
Stull Mbr.