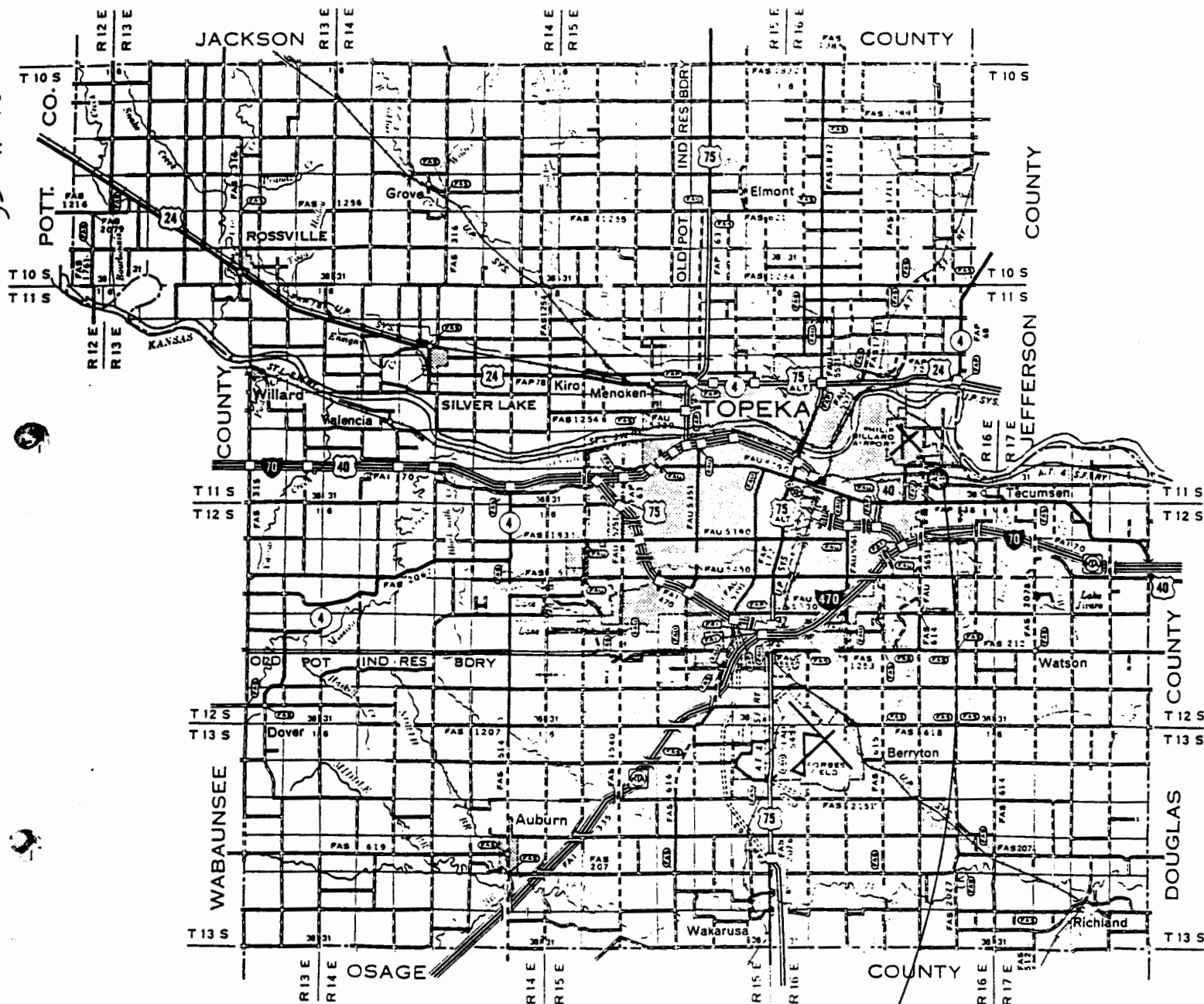


35-11-16E NE SE NW



GEOTECHNICAL UNIT
GEOLOGY SECTION

BRIDGE FOUNDATION GEOLOGY REPORT

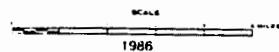
004-089 K-3362-04
Br. No. 26.47

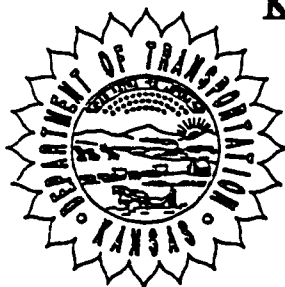
West bound Oakland Expressway
over the Shunganunga Creek and A.T. & S.F. Railroad

SHAWNEE COUNTY

GENERAL HIGHWAY MAP
SHAWNEE COUNTY
KANSAS

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





KANSAS DEPARTMENT OF TRANSPORTATION

1. ROUTE-COUNTY NO. 004-089	7. SOUNDING NO. 2	12. SHEET 01 OF 02
2. BRIDGE STA. 521+02.60	8. PROJECT NO. K-3362-04	13. BRIDGE NO. 26.46
3. DESCRIPTION K-4 over Shunganunga Creek		14. HOLE STA. 519+14 & Project
4. GEOLOGIST Sunderland	9. VERTICLE SCALE 1"=10'	15. DATE September 1993
5. DRILLER Shall	10. RIG B-61	16. ELEVATION TOP OF HOLE 872.6
6. GROUND WATER ELEV.	11. TOTAL DEPTH OF HOLE 81'	17. ELEVATION TOP OF ROCK 825.6

BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV.
			0°	872.6				
Casing	Mantle Alluvium			870	Clay, silty and sandy. Scattered gravel and sand beds			
			47°	825.6				
	Tecumseh Frm		54°	820	Shale, dark gray, firm			
Diamond	Avoca Mbr		57°	814.9	Limestone, hard, gray upper 1° impure			
	King Hill Mbr.		65°	810	Shale, gray-green, very firm Earthy shaly limestone zone.			
	Beil Mbr.		73°	807.0 805.9 802.9	Limestone, upper 2° has has zones.			
	Queen Hill Mbr		77°	798.7	Limestone, gray massive			
	Big Springs Mbr		80°	794.7	Shale, very firm, black, fissile			
			81.7	791.7	Limestone, massive, hard			
	Denigani Mbr.			790	790.9 TO Shale, gray, firm			