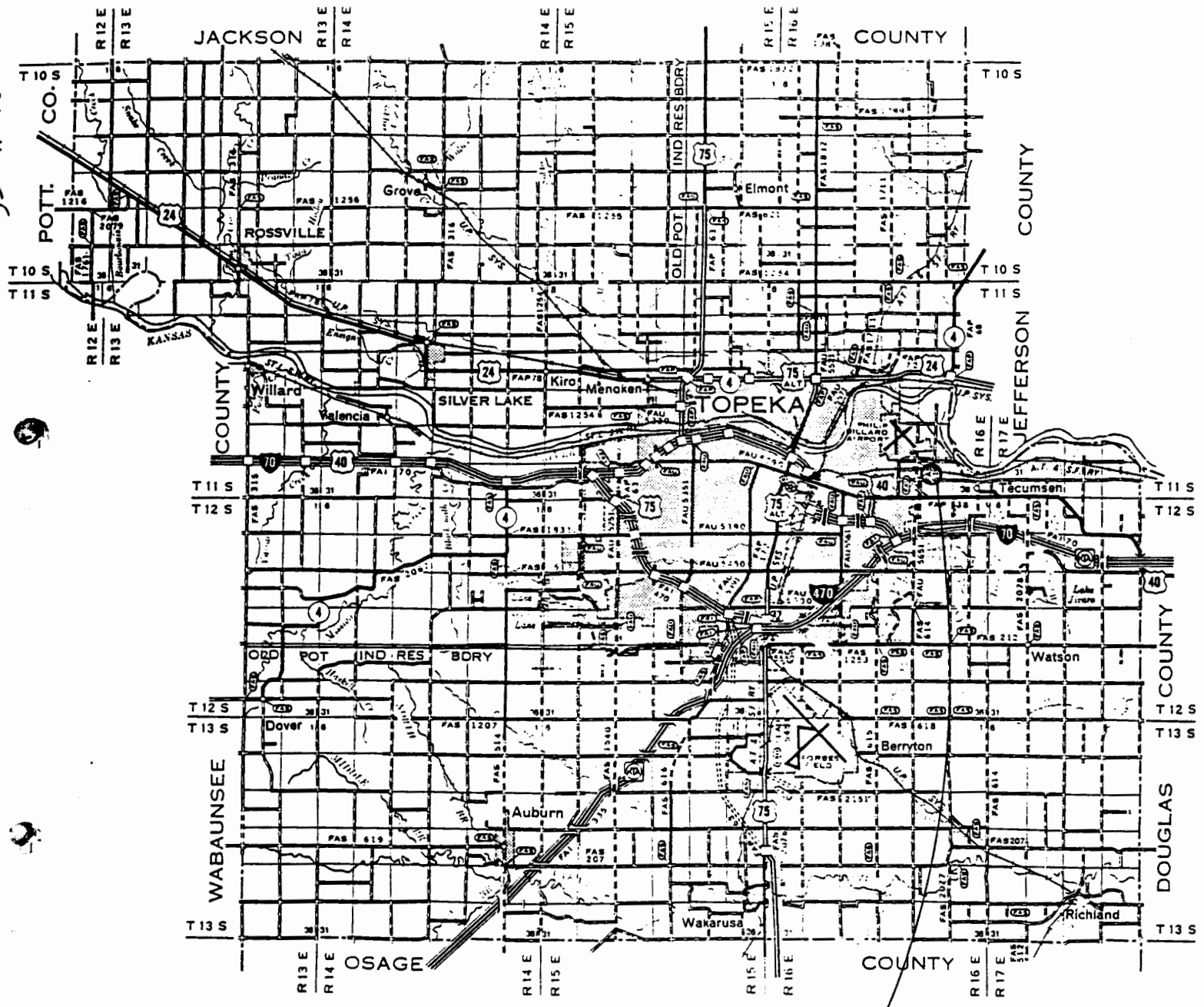


35-11-16E NE SE NW



GEOTECHNICAL UNIT
GEOLOGY SECTION

BRIDGE FOUNDATION GEOLOGY REPORT

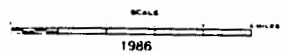
004-089 K-3362-04
Br. No. 26.47

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

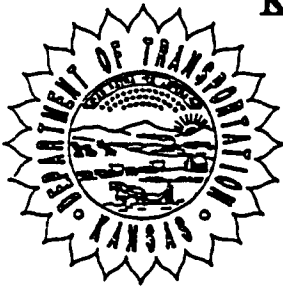
SHAWNEE COUNTY

GENERAL HIGHWAY MAP
SHAWNEE COUNTY
KANSAS

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



KANSAS DEPARTMENT OF TRANSPORTATION



1. ROUTE-COUNTY NO. 004-089	7. SOUNDING NO. 2	8. SHEET 01 OF 02
2. BRIDGE STA. 521+02.60	4. PROJECT NO. K-3362-04	6. BRIDGE NO. 26.46
3. DESCRIPTION K-4 over Shunganunga Creek		5. HOLE STA. 519+14 & Project
9. GEOLOGIST Sunderland	11. VERTICLE SCALE 1"=10'	10. DATE September 1993
12. DRILLER Shall	13. RIG B-61	14. ELEVATION TOP OF HOLE 872.6
15. GROUND WATER ELEV.	16. 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				
Diamond	Tecumseh Frm		54'	820	Shale, dark gray, firm			
	Avoca Mbr		57'	818.4	Limestone, hard, gray upper 1' impure			
	King Hill Mbr.		65'	814.9	Shale, gray-green, very firm Earthy shaly limestone zone.			
	Beil Mbr.		73'	810	Limestone, upper 2' has has zones.			
	Queen Hill Mbr		77'	807.0	Limestone, gray massive			
	Big Springs Mbr		80.95'	805.9	shale, very firm, black, fissile			
	Daniphan mbr.		81.7'	802.9	Limestone, massive, hard			
				790	790.9 TO Shale, gray, firm			