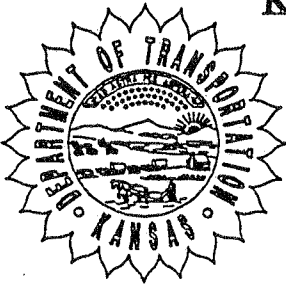


KANSAS DEPARTMENT OF TRANSPORTATION

22-11-16E
E2 SE NE

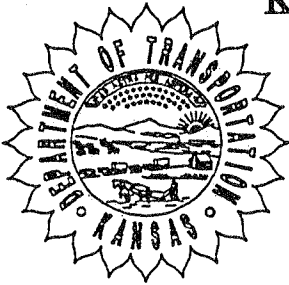


1. ROUTE-COUNTY NO. 004-089	7. SOUNDING NO. 3	12. SHEET 01 OF 03
2. BRIDGE STA. 637+48.25	8. PROJECT NO. K-3362-01	13. BRIDGE NO. 28.66
3. DESCRIPTION Oakland Expressway		14. HOLE STA. 612+23
4. GEOLOGIST Billinger	9. VERTICLE SCALE 1"=10'	15. DATE 4-6-93
5. DRILLER shall	10. RIG B-61	16. ELEVATION TOP OF HOLE 865.7
6. GROUND WATER ELEV. 857.7	11. TOTAL DEPTH OF HOLE 966	17. ELEVATION TOP OF ROCK 795.7

BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION CASING DRIVE		
							BLOWS	ELEV.	
			00	865.7	Strat. Hole				
				860	very fine sandy silt grades to fine sand			860	
				850		31			
				842.4		24	850		
			233	840		16			
	Alluvium			840	sand with numerous gravel beds.			44	840
						830	58		
						830	38	830	
						820	45		
						820	55	820	
						810	47		
				810			80	810	
				800			68		
				800			70	800	
			700	795.7			153	795	
	Recumseh Shale				Shale weathered				

Casing

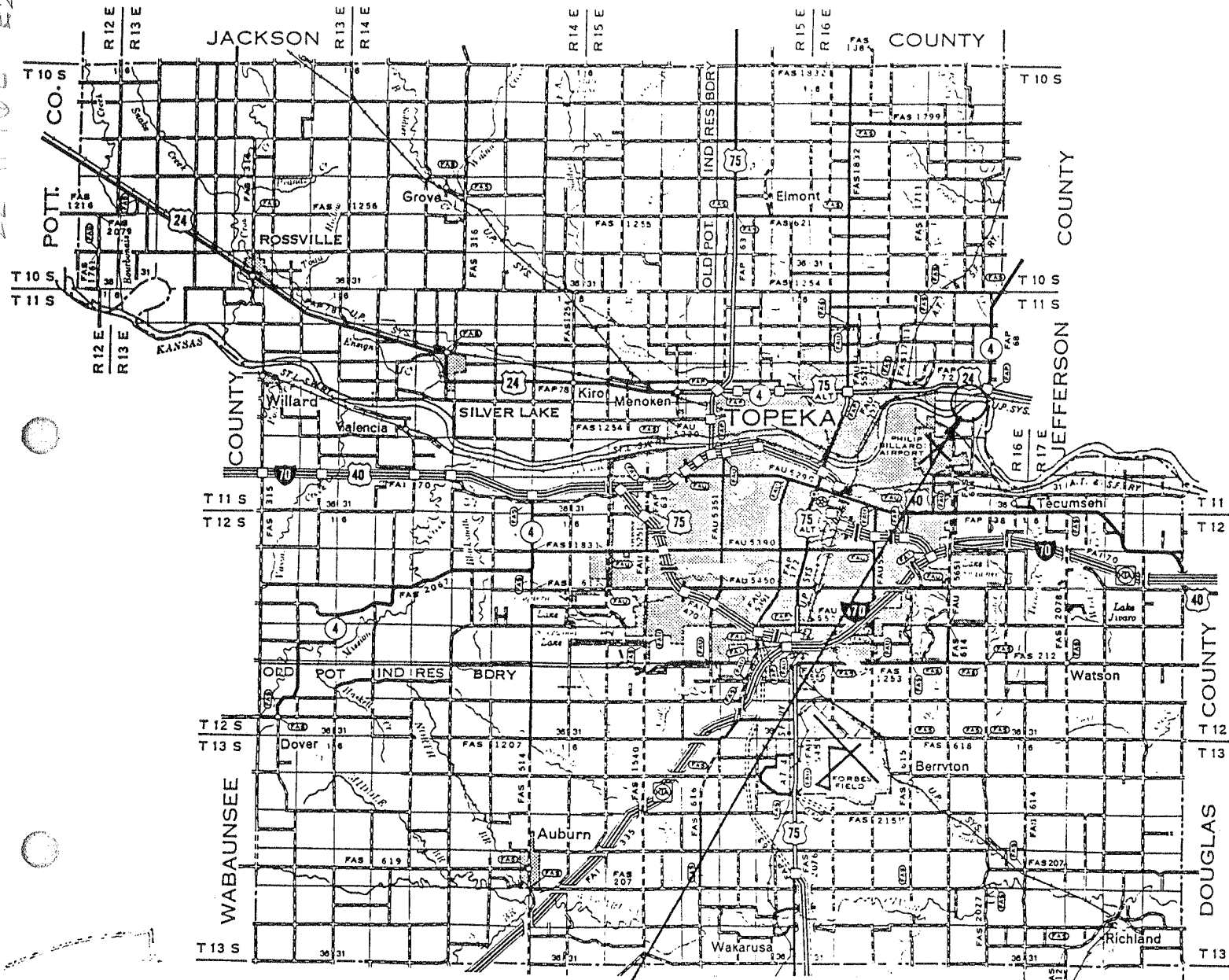
KANSAS DEPARTMENT OF TRANSPORTATION



1. ROUTE-COUNTY NO. 009-089	7. SOUNDING NO. 3	12. SHEET 02 OF 03
2. BRIDGE STA. 637+48.25	8. PROJECT NO. K-3362-01	13. BRIDGE NO. 28.66
3. DESCRIPTION Oakland Expressway		14. HOLE STA. 612+23
4. GEOLOGIST Billinger	9. VERTICLE SCALE 1"=10'	15. DATE 4-6-93
5. DRILLER Shall	10. RIG B-61	16. ELEVATION TOP OF HOLE 865.7
6. GROUND WATER ELEV. 857.7	11. TOTAL DEPTH OF HOLE 96 ⁶	17. ELEVATION TOP OF ROCK 795.7

BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION CASING DRIVE	
							BLOWS	ELEV.
Diamond	Tecumseh shale	//	70 ⁰	795.7	Shale, gray		153	795
	Avoca Ls.	—	76 ¹	790			789.6	Refusal
	King Hill shale	—	79 ²	786.5	Limestone, hard, dense, massive			
	Beil Ls.	—	82 ¹	783.6	Shale, gray, firm			
		—	84 ³	781.4	Limestone, gray, hard, medium bedded			
			87 ⁹	777.8	shale, limy, gray-green			
			96 ⁶	770	Limestone, gray, hard			
				760				

22-11-16 E2 E2



Proj.No. 004-089 K-3362-05
 Br.No. 004-089-28.66
 Oakland Expressway over the Kansas River
 Sta.637+48.25
 Shawnee County

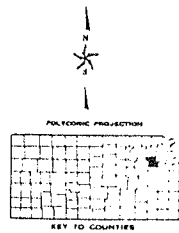
LEGEND

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	-----

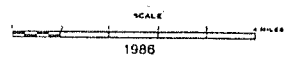
ROAD SYSTEM DESIGNATION

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	-----



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



FA SYSTEM REVISED TO MAR. 15 1968