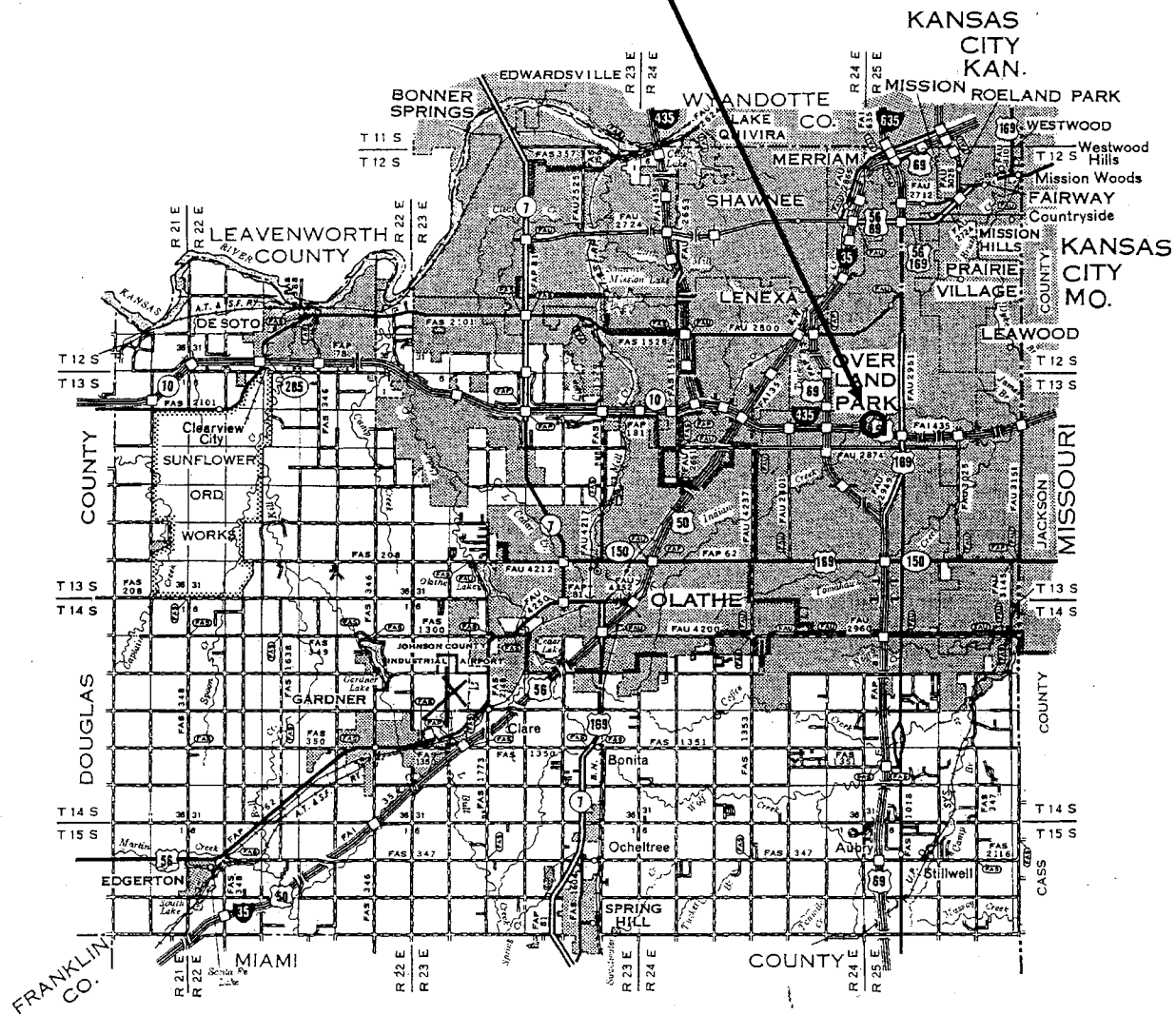


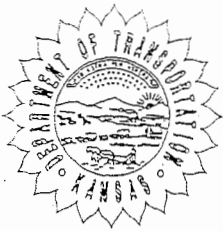
Project 435-46 K-8262-01
 Antioch Road over I-435
 Bridge No. 435-46-4.28(206) N.B.
 435-46-4.29(049) S.B.

12-13-24E

E/2 E/2



Johnson County



KANSAS DEPARTMENT OF TRANSPORTATION

RTE/CO. 435-416	SOUNDING NO. 1	SHEET 1 OF 2
BRIDGE STA 154576.438	PROJ.NO. K-8262-01	BRIDGE NO. 435-46-428(2)
SITE NAME Antioch bridge over I-435		HOLE STA. 5+033.5, 27.7m Lt @ Antioch Rd.
GEOLOGIST Rocky Crow	SCALE: 1:100 (10mm = 1 Meter)	DATE 8/20/2003
DRILLER Rob Vervynck	RIG TYPE B-61	TOP HOLE ELEV. 276.332
GROUNDWATER ELEV 272.732	TOTAL DEPTH 16.95m	M/B ELEV. 271.76

BIT TYPE	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH m	ELEVATION m	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV
					276.33 Ground line			
				276	Silty clay, Brown, tan to grey.			276
				275				275
				274		1.95 180 kPa	274.38	274
				273				273
				272		3.50 200 kPa	272.83	272
			4.57	271.76	Limestone - Light grey, Calcite filled voids, Fossiliferous, various shale seams.			
				271		5.27 55900 kPa	271.06	271
			6.13	270		5.97 119000 kPa	270.36	270
			6.37	269	269.96 Shale - Grey, limy, slightly wavy-bedded.			
			6.80	269	269.53 Limestone - Grey, firm, fossiliferous at base.			
				269	Shale - Grey, slightly wavy bedded, sandy, argillaceous, calcareous.	7.04 1000 kPa	269.89	269
				268				268
			9.23	267		8.84 3000 kPa	267.49	267
				266	Shale - Grey, lamellar bedding, argillaceous, calcareous.	10.03 1600 kPa	266.80	266
				265				265
			12.22	264		11.70 1200 kPa	264.63	264
				263	Shale - Green grey, lamellar, argillaceous, slightly calcareous, bottom 0.37m firm and limy.			
			13.26	262		13.23	263.10	263
			13.87	262	Limestone - Light grey, wavy bedded, abundant seams, broken.	13.87 1800 kPa	262.52	262
				261		14.75 24400 kPa	261.58	261
						15.24 5000 kPa	261.09	261

			SOUNDING NO. 1		PROJECT NO. K-8862-01		SHEET 2 OF 2	
DATE 8/20/2003			RTE./CO. 435-416		TOTAL DEPTH 16.95		THE 276.332	
BIT TYPE	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV
			15.82		Limestone - Brown cont.	15.82 65000 Kpa	21.2.86	
			10.37	260	Shale - Grey lamellar bedding, bottom block.	15.64 54500 Kpa	260.69	
			16.95		Shale - green-grey, argillaceous	16.12 34000 Kpa	260.71	260
				259	259.38 SIS	3300 Kpa		259
				258				258