

CDZ

# **GEOLOGY REPORT**

**70-89 KA-2107-01  
I-70 & Deer Creek  
0.13 Miles East of I-70 and Carnahan Ave Junction  
Shawnee County**

**Robert Henthorne, P.G.  
Chief Geologist**

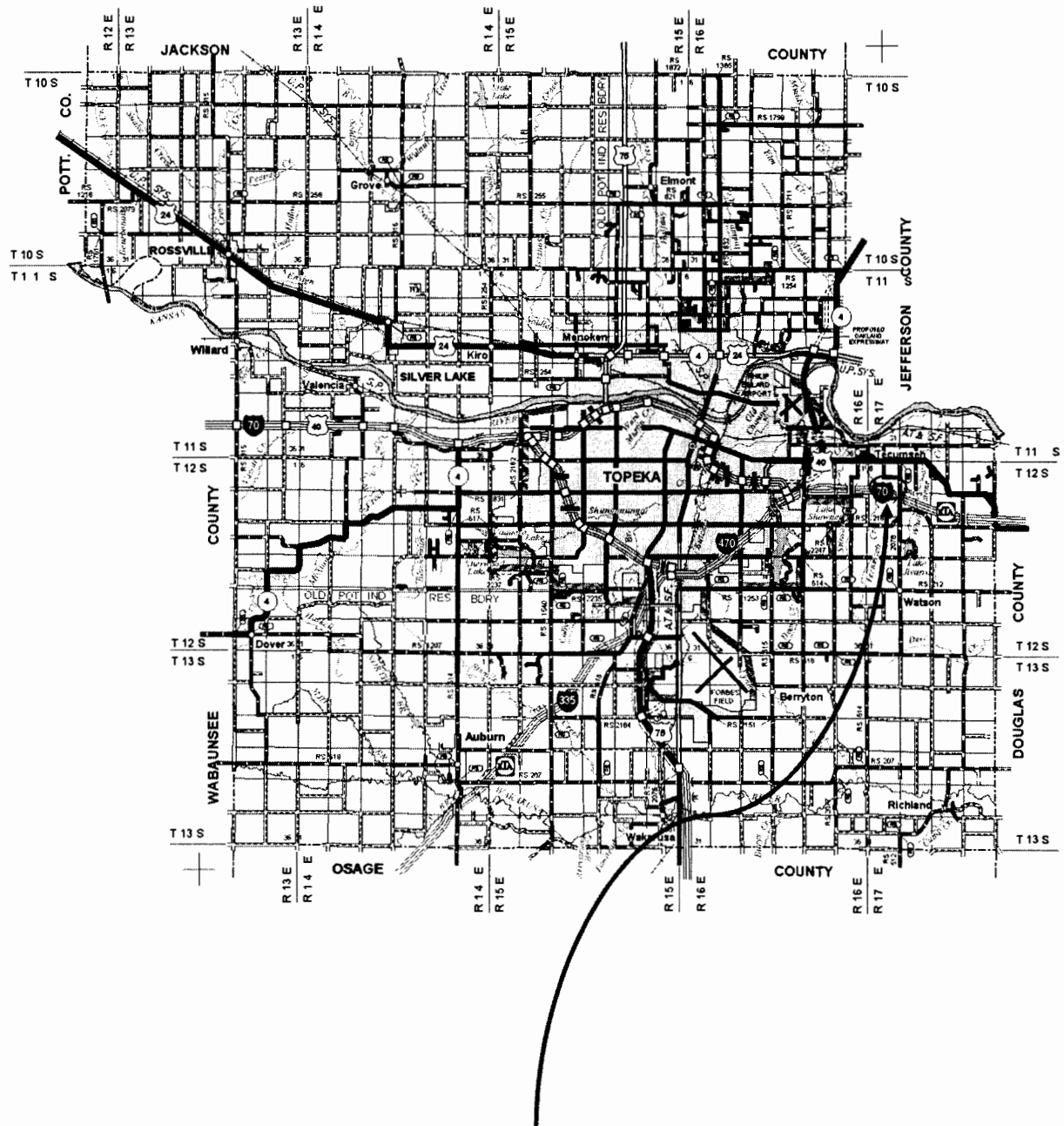
**Kyle Halverson, P.G.  
Delmar Thompson, P.G., Regional Geologist**

**December 2012**



**Bureau of Materials and Research**

**Geotechnical Unit**



70-89 KA-2107-07 I-70 & Deer Creek  
 Br. No. 70-89-18.78(043)  
 Shawnee County  
 CD  
 N:39.034753 E:-95.635343  
 SW 1/4, NE 1/4, SE 1/4, S04, T12S, R16E

# KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	I-70 / Shawnee	SOUNDING NO.	CD 2
		PROJ. NO.	70-89 KA-2107-01
SITE NAME		I-70 and Deer Creeks	
		HOLE STA.	378+44, 81.0' Lt CL
GEOLOGIST	G. Worthington, G.A.	SCALE	1 inch = 11.2 feet
		DATE	May 1, 2012
DRILLER	R. Vervynck	RIG TYPE	CME 75
		TOP HOLE ELEV.	904.41
GW ELEV.	882.4	TOTAL DEPTH	66.0
		M/B ELEV.	871.11

BOREHOLE REPORT - KANSAS DOT.GDT - 6/8/12 10:31 - C:\USERS\GALENN\DESKTOP\PROJECTS\70-89 KA-2107-01\70-89 KA-2107-01.GPJ

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
8" Hollow Augers	Mantle			904.4	Clay, silty, mottled brown and yellow, occasional coarse grains to 1/8" gravel, dry, soft				
			5.3	899.1	Silt, clayey, reddish-brown, moist, soft	1	121000		899.11
			8.5	895.9	Clay, silty, to clayey silt, yellow-brown to dark-brown, moist, soft	1.5	102000		894.11
			10.3	894.1	Clay, silty, brown, soft, moist				
			20.3	884.1	Silt, clayey, brown to dark-brown, soft, wet	0.5	211000		889.11
			28.5	875.9	Silt, yellow-brown, trace of clay, soft, wet	0.8	156000		884.11
			32.3	872.1	Gravel, limestone, gray, weathered	0.9	47600		879.11
			33.8	870.6	Limestone, gray, weathered, hard	0.3	58100		874.11
			37.9	866.5	Shale, greenish gray to dark greenish-gray, medium-hard	63	5.45E+07		867.01
			39.9	864.5	Shale, pale-green, limy, soft to firm	3.9	244000		863.81
			47.0	857.4	Shale, dark green-gray	8.6	635000		855.71
			47.7	856.7	Shale, dark-gray, laminated bedding, medium-hard to hard	10.2	785000		850.61
			7			19.3	2360000		843.71
			7			42	4740000		839.61

838.41

T.D. = 66



# KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	I-70 / Shawnee	SOUNDING NO.	CD 2	SHEET 2 of 2	
		PROJ. NO.	70-89 KA-2107-01	BRIDGE NO.	
SITE NAME	I-70 and Deer Creeks			HOLE STA.	378+44, 81.0' Lt CL

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