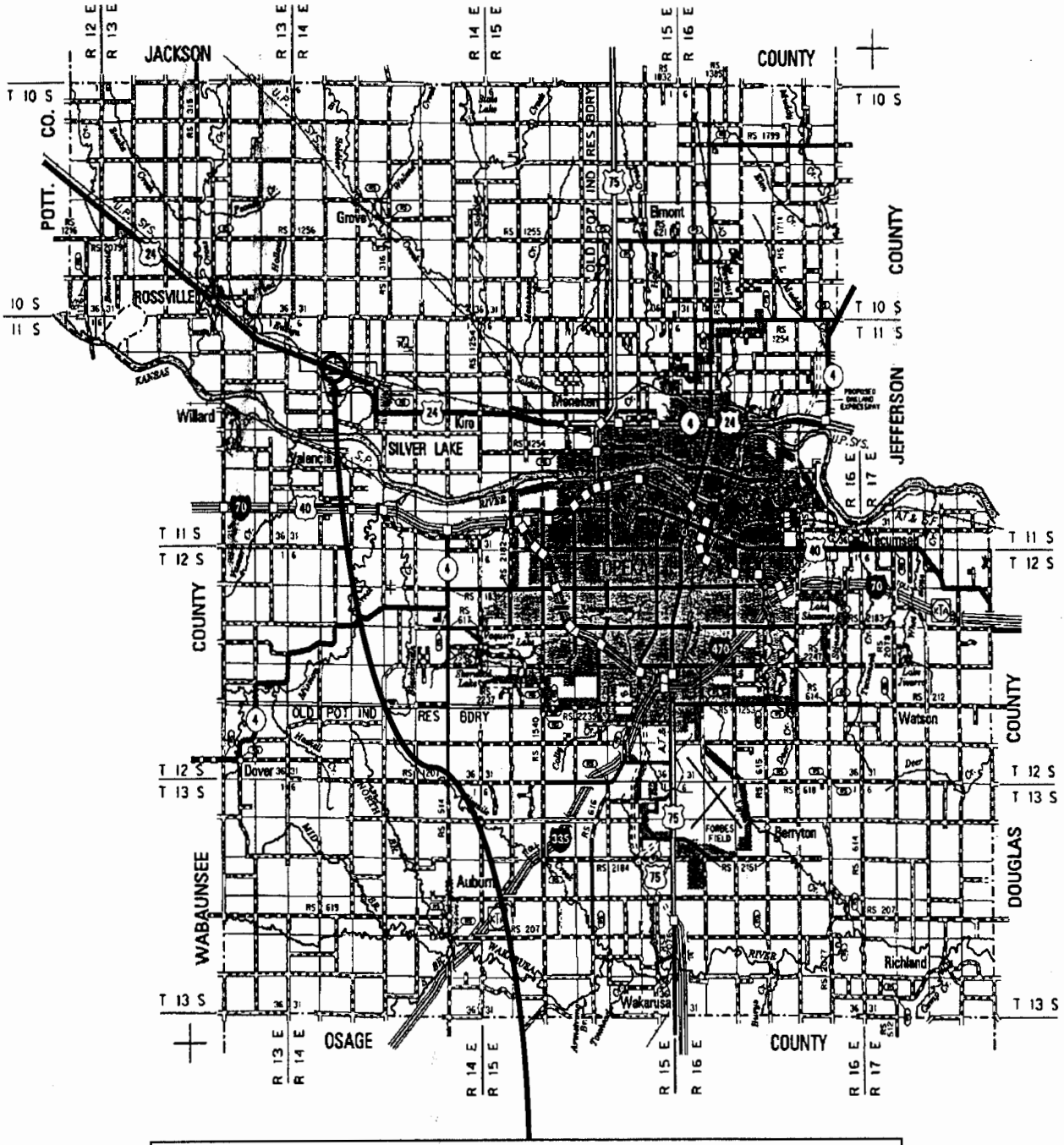

24-89 KA-0711-01 *US*-24 over Ensign Creek

Bridge No. 24-89-8.42(299)

Shawnee County

CD 03

N: 39.116250 E: -95.903002

SW ¼ , SE ¼ , SW ¼, Section 06 T11S, R14E

KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	24-89	SOUNDING NO.	CD3	SHEET 1 of 4	
BRIDGE STA.	523+61.75	PROJ. NO.	KA-0711-01	BRIDGE NO.	24-89-8.42 (299)
SITE NAME	US-24 over Ensign Ck			HOLE STA.	523+22, 43.0' Rt CL
GEOLOGIST	R. Crow	SCALE 1 inch = 5.0 feet		DATE	June 28, 2010
DRILLER	R. Vervynck	RIG TYPE	CME 55	TOP HOLE ELEV.	912.0
GW ELEV.	905.0	TOTAL DEPTH	72.5	M/B ELEV.	842.5

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	Alluvium			912.0	Silt, brown, moist				
			4.0	908.0	Sand, very fine, tan/brown, wet	0.1465	209		906.0
						0.364	12300		901.0
			14.0	898.0	Sand, fine to medium, tan, mixed lithologies, wet			9	896.5
								12	886.5

910
905
900
895
890
885

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KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	24-89	SOUNDING NO.	CD3	SHEET 2 of 4	
BRIDGE STA.	523+61.75	PROJ. NO.	KA-0711-01	BRIDGE NO.	24-89-8.42 (299)
SITE NAME	US-24 over Ensign Ck			HOLE STA.	523+22, 43.0' Rt CL

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	Alluvium			880, 875, 870, 865, 860, 855, 850	Sand, fine to medium, tan, mixed lithologies, wet			18	881.5
								20	871.5
								15	861.5
								12	851.5

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KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	24-89	SOUNDING NO.	CD3	SHEET 3 of 4	
BRIDGE STA.	523+61.75	PROJ. NO.	KA-0711-01	BRIDGE NO.	24-89-8.42 (299)
SITE NAME	US-24 over Ensign Ck			HOLE STA.	523+22, 43.0' Rt CL

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
	Alluvium			845	Sand, fine to medium, tan, mixed lithologies, wet				
Diamond	White Cloud Shale	1	69.5	840 / 842.5	Shale, very limy and hard, laminated, gray, vertical fracture	362	1.15E+08		841.6
			72.5	839.5	T.D. = 72.5				

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KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	24-89	SOUNDING NO.	CD3	SHEET 4 of 4	
BRIDGE STA.	523+61.75	PROJ. NO.	KA-0711-01	BRIDGE NO.	24-89-8.42 (299)
SITE NAME	US-24 over Ensign Ck			HOLE STA.	523+22, 43.0' Rt CL

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION

Core	Depth	Elev.	Cut	Rec	Rec %	RQD
1	69.5	842.5	3.0	3.0	100	87%
Total	**72.5**	**839.5**	**3.0**	**3.0**	**100**	**87%**

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