

10-23 K-8392-04 K-10 over Relocated East 31st Street

Br. No. 10-2312.93 (179)(R)

Br. No. 10-2312.94 (180)(S)

Douglas Co.

CD 01

N:38.926444 E:-95241208 (Approx.)

NW ¼, NW ¼, NW ¼, S18, T13S, R20E

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	10-Douglas	SOUNDING NO.	CH-1	SHEET 1 of 3
BRIDGE STA.	878+97.03	PROJ. NO.	K-8392-04	BRIDGE NO. 10-23-12.93 (179)
SITE NAME	Bridge R & S, South Lawrence Trafficway			HOLE STA. 881+65, 11.0' Lt Cl
GEOLOGIST	K. Halverson, G.A.	SCALE	1 inch = 10.0 feet	DATE August 22, 2011
DRILLER	J. Burns	RIG TYPE	CME 55	TOP HOLE ELEV. 828.7
GW ELEV.	N/A	TOTAL DEPTH	78.5	WB ELEV. 783.7

BOREHOLE REPORT - KANSAS DOT.GDT - 11/22/11 11:36 - C:\USERS\KYLE\DESKTOP\PROJECTS\K-8392-04 SOUTH LAWRENCE TRAFFICWAY\BRIDGES R-S\BRIDGE R-S.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	Soil Mantle		0.6	828.7 828.1	Silty Clay, dark brown, moist, soft, trace gravel Silty Clay, brown, slightly moist, firm to hard					
			7.0	821.7	Sandy Clay, gray to brown, moist, hard, mottled, well compacted @ 20-21.6 Shelby tube had 600 lbs of down pressure	3.545	351000		816.9	
			27.0	801.7	Sandy Clay, brown, moist, hard to firm, well compacted	3.495	199000		807.1	
			43.5	785.2	Sand with some gravel, grayish brown, dense, moist to wet	3.925	587000		797.0	
			45.0	783.7	Coal, black, hard					
			46.5	782.2	Shale gray, poor bedding structure, sandy, weathered, very closely fractured, hard, clayey					
			49.0	779.7	Shale, gray, with abundant Sandstone Stingers, non-weathered, very closely fracture, hard	219	8.54E+07		778.3	
			49.8	778.9	Sandstone, gray, non-weathered, very closely fractured, hard, abundant Shale seams (less than 1" thick), well cemented					
NQ2 Diamond	Stranger Formation		1	780						
			2	775						
			3							
			4	770						

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	10-Douglas	SOUNDING NO.	CH-1
BRIDGE STA.	878+97.03	PROJ. NO.	K-8392-04
SITE NAME			BRIDGE NO.
Bridge R & S, South Lawrence Trafficway			10-23-12.93 (179)
			HOLE STA.
			881+65, 11.0' Lt Cl

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Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
N02 Diamond	Stranger Formation		4	765	765.7	Sandstone, gray, non-weathered, very closely fractured, hard, abundant Shale seams (less than 1" thick), well cemented	116	5.33E+07	765.2
			5	760	763.0	Sandstone, fine grained, light gray, well cemented, very closely fractured, non-weathered, very hard	67	4.72E+07	763.0
			6	755	763.0	Shale, gray, very sandy, abundant Sandstone stingers, poor bedding structure, non-weathered, very closely fractured, hard, @66.7-66.8 thin Limestone stinger 2" thick	3.64	236000	760.5
			7	750	758.5	Sandstone, gray, well cemented, fine grained, non-weathered, closely to widely fractured, very hard	4.18	205000	758.6
			7	750	758.5	Sandstone, gray, well cemented, fine grained, non-weathered, closely to widely fractured, very hard	189	8.9E+07	755.3
			78.5	750.2	T.D. = 78.5				