



RTE./CO.	K-32 / Wyandotte	SOUNDING NO.	CH 01	SHEET 1 of 4
		PROJ. NO.	32-105 KA-3079-01	BRIDGE NO.
SITE NAME	Turner Diagonal/ K-32/Kaw Dr. Interchange			HOLE STA. 145+62.6, 112.0' Rt BL
GEOLOGIST	T. Ree, G.T.	SCALE	1 inch = 5.0 feet	DATE March 11, 2015
DRILLER	R. Hinderliter	RIG TYPE	CME 75	TOP HOLE ELEV. 763.69
GW ELEV.	729.0	TOTAL DEPTH	83.9	M/B ELEV. 701.3

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			763.7	Sandy silty clay; brown, some moisture.				
			6.0	757.7	Silty clay; some sand, some moisture.				
			10.0	753.7	Silty clay; some sand, wet.				
			17.0	746.7	Sand; fine grained, tan.				



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	K-32 / Wyandotte	SOUNDING NO.	CH 01	SHEET 2 of 4
		PROJ. NO.	32-105 KA-3079-01	BRIDGE NO.
SITE NAME	Turner Diagonal/ K-32/Kaw Dr. Interchange			HOLE STA. 145+62.6, 112.0' Rt BL

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
			30.0	733.7	Casing Drive, no return.				
				730					
				725					
				720					
				715					
				710					
				705					
				700					
			62.4	701.3	Middle Creek Ls Mbr; Upper 1.5 feet heavily weathered, angular, brown, limestone gravel. Lower 0.6 feet bluish-gray, dense, brittle, and fine grained.				
			64.5	699.2	Elm Branch Shale. Shale; calcareous, dark gray turning light gray, friable.				

BOREHOLE REPORT - KANSAS DOT.GDT - 5/13/15 14:42 - Q:\GEOLOGY\BRIDGE\32-105 KA-3079-01 TURNER DIAGONAL\KA307901_CORES.GPJ

Flush Joint Casing

Alluvium

NQ2 Diamond

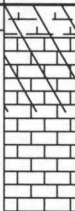
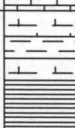
ELMB MDCK

1

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KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	K-32 / Wyandotte	SOUNDING NO.	CH 01	SHEET 3 of 4
		PROJ. NO.	32-105 KA-3079-01	BRIDGE NO.
SITE NAME	Turner Diagonal/ K-32/Kaw Dr. Interchange			HOLE STA. 145+62.6, 112.0' Rt BL

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
NQ2 Diamond	Sniabar Ls		2	66.9	696.8	Limestone; fine grained, dense, brittle, vuggy, tan, slightly porous, and jointed with thin beds of thin wavy shale laminations.	390.0	1.94E+08	692.69
			3						
	Mound City Sh		73.6	690	690.1	Limy Shale; friable, gray with irregular carbonate nodules.	1.7	129000	685.19
			74.3		689.4	Shale; fissile, principally gray with bands of green shale and hematite/pyrite crystals.			
			74.9		688.8				
			75.5		688.2	Limy Shale; friable, gray with irregular carbonate nodules.			
			76.0		687.7	Black shale; phosphatic, firm, small pyrite crystals.			
						Black shale; phosphatic, firm. Perpendicular shear plane sets.			
	Guthrie Mtn Sh		78.5	685	685.2	Shale; silty, light gray, micaceous, porous. Pale-yellow carbonate nodules common throughout.	16.0	1590000	680.89
				83.9	679.79	T.D. = 83.9			

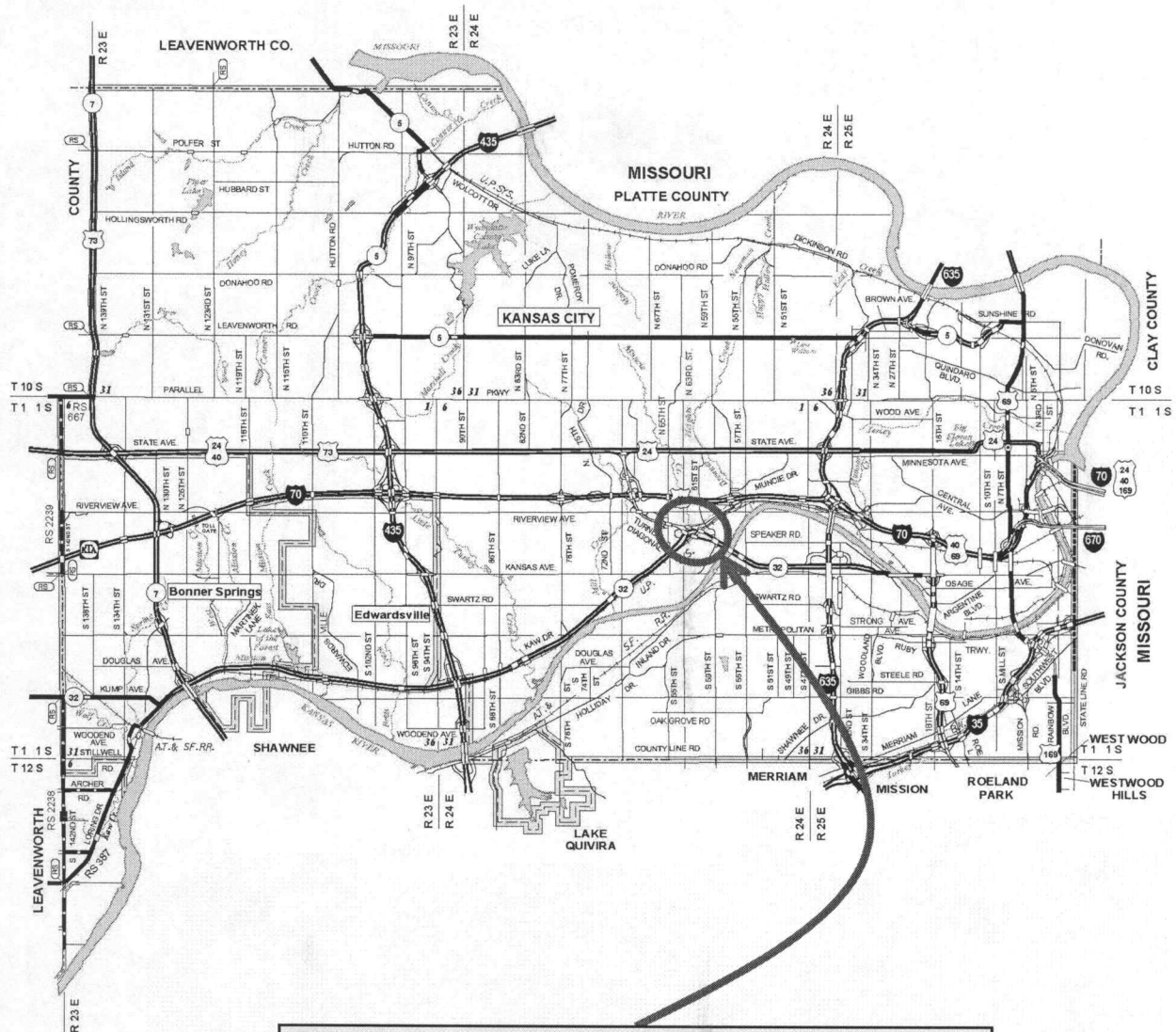


KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	K-32 / Wyandotte	SOUNDING NO.	CH 01	SHEET 4 of 4
		PROJ. NO.	32-105 KA-3079-01	BRIDGE NO.
SITE NAME	Tuner Diagonal/ K-32/Kaw Dr. Interchange			HOLE STA. 145+62.6, 112.0' Rt BL

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION																																																
					<table><thead><tr><th>Core</th><th>Depth</th><th>Elev.</th><th>Cut</th><th>Rec</th><th>Rec %</th><th>RQD</th></tr></thead><tbody><tr><td>1</td><td>62.4</td><td>701.29</td><td>1.5</td><td>1.5</td><td>100</td><td>0%</td></tr><tr><td>2</td><td>63.9</td><td>699.79</td><td>5.0</td><td>5.0</td><td>100</td><td>34%</td></tr><tr><td>3</td><td>68.9</td><td>694.79</td><td>5.0</td><td>5.0</td><td>100</td><td>44%</td></tr><tr><td>4</td><td>73.9</td><td>689.79</td><td>5.0</td><td>5.0</td><td>100</td><td>60%</td></tr><tr><td>5</td><td>78.9</td><td>684.79</td><td>5.0</td><td>4.9</td><td>98</td><td>80%</td></tr><tr><td>Total</td><td>83.9</td><td>679.79</td><td>21.5</td><td>21.4</td><td>100</td><td>51%</td></tr></tbody></table> BOX 1: 62.4' - 73.9' BOX 2: 73.9' - 83.9'	Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	62.4	701.29	1.5	1.5	100	0%	2	63.9	699.79	5.0	5.0	100	34%	3	68.9	694.79	5.0	5.0	100	44%	4	73.9	689.79	5.0	5.0	100	60%	5	78.9	684.79	5.0	4.9	98	80%	Total	83.9	679.79	21.5	21.4	100	51%			
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KID: 1055494761



32-105 KA-3079-01

Bridge No. 32-105-11.24(338)

East Bound K-32

K-32/Turner Diagonal/Kaw Drive Interchange
Kansas City, Wyandotte County

CH 01

N 39.09662 E -94.72137

3/11/2015