STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 328	*	CLAY	109	41
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT- AID		

SHEET NO. 5
6 SHEETS

Contract #74107 *(6BR-3)B-1

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

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Date 6/20/07

ROUTE FAP 328 (US 45) DESCRIPTION Branch of Elm River LOGGED BY E. Sandschafer

SECTION (6BR1,6BR3, 8BR3, 8BR4)B-1 LOCATION Sec 22 - NE 1/4, Sec 23 - NW 1/4, SEC. , TWP. 3 N, RNG. 6 E, 3 PM

COUNTY Clay DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 013-0013
Station 1638+03.2

BORING NO. 1
Station 1637+84
Offset 11.00ft Rt
Ground Surface Elev. 478.42 ft

Surface Water Elev. 473.43 ft
Stream Bed Elev. 471.31 ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion 470.4 ft
After 24 Hrs. 472.9 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4" asphalt on 9" concrete pavement.	477.32				
Gray, SILTY CLAY.	476.42				
Medium, damp, gray, SILTY LOAM.			2		
			2	0.6	19
			2	B	
Soft, damp, gray, SILTY CLAY.	473.92	-5	0		
			0	1.0	21
			0	PP	
Soft, damp, gray, SILTY LOAM.	471.42		0		
			0	0.3	23
			1	B	
Stiff, damp, red marbled gray, CLAY LOAM TILL.	468.72	-10	1		
			3	1.5	19
			3	B	
			3		
Medium, damp, red, SANDY CLAY TILL.	465.42		3	0.9	15
			5	B	
Very dense, moist, red/tan/gray, CLAY LOAM SHALE.	463.42	-15	8		
			15	+4.5	8
			17	PP	
			18		
			50/5"	+4.5	6
			50/1"	PP	
	458.52	-20			

Extent of exploration.

Benchmark: BM 262 chiseled square on SW corner of parapet on existing bridge 013-0013, Sta 1638+14, 17.42' Rt = 479.07' elevation. Provide by Program Development.

Latitude W 88 deg 30.475 min. Longitude N 38 deg 41.190 min. Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
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SOIL BORING LOG

Page 1 of 1

Date 6/20/07

ROUTE FAP 328 (US 45) DESCRIPTION Branch of Elm River LOGGED BY E. Sandschafer

SECTION (6BR1,6BR3, 8BR3, 8BR4)B-1 LOCATION Sec 22 - NE 1/4, Sec 23 - NW 1/4, SEC. , TWP. 3 N, RNG. 6 E, 3 PM

COUNTY Clay DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 013-0013
Station 1638+03.2

BORING NO. 2
Station 1638+31
Offset 11.00ft Lt
Ground Surface Elev. 478.41 ft

Surface Water Elev. 473.43 ft
Stream Bed Elev. 471.31 ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After 24 Hrs. 472.2 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12" asphalt.	477.41				
Brown, SILTY CLAY.	476.41				
Very soft, very damp, gray, SILTY LOAM.			1		
			0	0.2	26
			1	B	
		-5	0		
			0	0.1	28
			1	B	
			2		
Stiff, damp, gray, CLAY TILL.	470.41		2	1.4	16
			3	B	
Stiff to medium, damp, red mottled gray, CLAY LOAM TILL.	468.91	-10	2		
			3	1.5	20
			4	B	
			2		
			4	0.7	15
			4	B	
		-15	10		
Very dense, moist, brown/gray, CLAY LOAM SHALE. *Samples pokerchipped.*	463.21		41	4.5	10
			50/4"	S	
			27		
			50/4"		9
Extent of exploration.	460.41		50/2"		
		-20			

Benchmark: BM 262 chiseled square on SW corner of parapet on existing bridge 013-0013, Sta 1638+14, 17.42' Rt = 479.07' elevation. Provide by Program Development.

Latitude W 88 deg 30.472 min. Longitude N 38 deg 41.189 min. Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

ESCA CONSULTANTS, INC.

DESIGNED BY:	FMA	05/08
DRAWN BY:	CJ	05/08
CHECKED BY:	ELH	05/08
APPROVED BY:	RDP	08/08

SOIL BORING LOGS
US 45 OVER BRANCH OF ELM CREEK
FAP ROUTE 328 - SECTION (6BR-3)B-1
CLAY COUNTY
STATION 1638+03.20
STRUCTURE NO. 013-2010