STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 322	24BR-1	FAYETTE	57	40
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 20
22 SHEETS

Contract # 94770

Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. DH

SOIL BORING LOG

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Date 9/14/06

ROUTE FAP 322 (US 51) DESCRIPTION Richland Creek LOGGED BY E. Sandschafer

SECTION 24BR-1 LOCATION Sec 3 - SW 1/4, Sec 4 - SE 1/4, SEC., TWP. 5 N, RNG. 1 E, 3 PM

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

STRUCT. NO. 026-0038
Station 226+67.4

BORING NO. 1
Station 226+98
Offset 15.00ft Rt
Ground Surface Elev. 477.79 ft

Surface Water Elev. Dry ft
Stream Bed Elev. 466.72 ft

Groundwater Elev.:
First Encounter 466.8 ft
Upon Completion Washed ft
After 168 Hrs. 467.4 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3 1/2" asphalt on 9 1/2" concrete pavement. 476.69			
Stiff, damp, gray, SANDY CLAY TILL.	4		
	5	1.8	14
	9	B	
473.29			
Soft, damp, brown, SANDY LOAM.	3		
	4	0.3	14
	5	S	
470.79			
Soft, damp, gray, SILTY LOAM w/ few wood chunks.	0		
	1	0.3	27
	1	B	
468.29			
Soft, damp, gray, SANDY LOAM.	0		
	3	0.3	16
467.29	4	S	
Loose, wet, brown, fine grained, SAND. *11% passing #200 sieve.*			
	1		
	3		22
4% passing #300 sieve.	3		
463.29			
Hard, very moist, gray, SANDY CLAY TILL.	19		
	29	6.7	7
	37	S	
	17		
	23	8.5	8
	26	S	
457.79	16		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dense, wet, brown, fine grained, SAND. *6% passing #200 sieve.*	27		23
465.79	16		
Very stiff, very moist, gray, SANDY CLAY TILL.	6		
	14	6.6	8
	20	S	
	18		
	38	5.3	7
	59	S	
	30		
	49	4.0	7
	50/4"	S	
	35		
	50		9
	50/5"		
443.29			
Very dense, wet, gray, fine grained, SAND. *6% passing #200 sieve.*	23		
	32		14
	41		
438.29	24		

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)

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SOIL BORING LOG

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Date 9/14/06

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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard, very moist, gray, SANDY CLAY TILL. *(continued)*	36	7.0	8
	50	S	
452.79	22		
Very soft, wet, gray, SANDY LOAM.	28	0.1	22
451.79	29	S	
Very stiff, damp, gray, SANDY LOAM TILL.			
427.79	15		
Gray, fine grained, SAND. *39% passing #200 sieve.*	23	3.7	9
	11	S	
418.29	2		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
No recovery this trip. Estimated SAND. *(continued)*	2		
	3		
468.29			
Very stiff, damp, gray, SANDY CLAY TILL.	47		
	50/4"	5.1	9
	50/4"	S	
388.99	13		

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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium to dense, wet, gray, fine grained, SAND. *2% passing #200 sieve.*	5		23
	10		
22% passing #200 sieve, (continued)	20		22
	16		
385.29			
Auger refusal, broke all teeth on feed auger. No recovery, estimated LIMESTONE.	50/1"		
383.19	50/0"		
Unable to rock core due to 35' of sand and gravel filling auger and drill rod. *Attempted to wash out,* unable due to quantity of large gravel.	50/0"		
Extent of exploration.			

Benchmark: BM 208 Chiseled square on SE corner of existing bridge, Sta 226+67 = 478.21'. Provided by Program Development.

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BENTON & ASSOCIATES, INC.

DESIGNED	MBH
CHECKED	NRF
DRAWN	MBH
CHECKED	NRF

SOIL BORINGS
US 51 / RICHLAND CREEK
F.A.P. RT. 322
FAYETTE COUNTY
SN. 026-0104