STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 327	(51-23) B-3	LAWRENCE	56	46
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 29
29 SHEETS

Contract No. 94967

Illinois Department of Transportation
Division of Highways
District 7 Materials

SOIL BORING LOG

Page 1 of 2

Date 52306

ROUTE FAP 327 (US 50) DESCRIPTION Embarras River LOGGED BY E. Sandschafer

SECTION (51-23)B-3 LOCATION , SEC. 36, TWP. 4 N, RNG. 12 W, 3 PM

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

STRUCT. NO. 051-0011
Station 554+17

BORING NO. 4
Station 555+30
Offset 31.00ft Rt
Ground Surface Elev. 417.58 ft

Surface Water Elev. 406.68 ft
Stream Bed Elev. 399.08 ft

Groundwater Elev.:
First Encounter 402.1 ft
Upon Completion Washed ft
After 24 Hrs. 401.6 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown, SANDY CLAY w/ vegetation and roots.	417.08				
Medium, damp, red marbled gray, SANDY CLAY.			1		
			2	0.8	19
			3	B	
Medium, damp, red, SANDY LOAM.	413.08	-5	1		
			3	0.8	19
			5	BS	
Medium, damp, red marbled tan, SILTY CLAY LOAM.	410.08		0		
			2	0.7	27
			3	B	
Soft to very soft, very damp, red/brown/gray, SANDY LOAM.	407.28	-10	1		
			2	0.3	22
			2	B	
			0		
			0	0.1	22
			1	B	
		-15	0		
			1	0.1	23
			2	B	
Gray, SAND. 9% passing #200 sieve.	402.08 / 401.78				
Very soft, wet, gray, SANDY LOAM.	400.58		0		
Medium, wet, gray, fine grained, SAND. 8% passing #200 sieve.	399.18		0		24
			3		
Very dense, moist, dark gray, SANDY CLAY SHALE.		-20	5		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	396.88		16		7
Borehole continued with rock coring.			50/2"		
		-25			
		-30			
		-35			
		-40			

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)

Illinois Department of Transportation
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ROCK BORING LOG

Page 2 of 2

Date 52306

ROUTE FAP 327 (US 50) DESCRIPTION Embarras River LOGGED BY E. Sandschafer

SECTION (51-23)B-3 LOCATION , SEC. 36, TWP. 4 N, RNG. 12 W, 3 PM

COUNTY Lawrence CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 051-0011
Station 554+17

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner

BORING NO. 4
Station 555+30
Offset 31.00ft Rt
Ground Surface Elev. 417.58 ft

Core Diameter 2.06 in
Top of Rock Elev. 397.88 ft
Begin Core Elev. 396.88 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Dark gray, moderately weathered, SANDY CLAY LOAM SHALE.	396.88			80	62	0.8	
Dark gray to black, slightly weathered, CLAY SHALE.	394.08						
Rock core B4a 24.0' to 24.5' = 52 tsf		-25					
Gray, estimated LIMESTONE w/vertical fracture.	391.58			100	51	0.7	
Gray, slightly weathered, SANDY CLAY SHALE.	390.58						
Rock core B4b 28.0' to 28.5' = 91 tsf		-30					
				100	89	0.8	
Rock core B4c 34.0' to 34.5' = 36 tsf		-35					
Extent of exploration.	381.88						
Benchmark: BM 204 Chiseled square on SE corner of existing bridge, Sta 556+26, 18.6' Lt = 434.66' Provided by Program Development.							
Stationing of borings based on center of existing bridge = 554+17.		-40					

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BORING LOGS
F.A.P. RT. 327 - SEC. (51-23)B-3
LAWRENCE COUNTY
STATION 553+95.50
STRUCTURE NO. 051-0063