STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	220
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 84
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 2

Date 11/9/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 1/4, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+16

BORING NO. 0510-P10 Pier 10
Station 919+46
Offset 0.0ft
Ground Surface Elev. 451.9 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
First Encounter 440.9 ft
Upon Completion N/A ft
After Hrs. Plugged ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Very Dark Grey Moist CLAY					
Refer Class P7-1			1		
			2	3.1	25
			4	B	
			2		
With Concrete			100/3"	1.8	28
		-5		B	
			2		
Very Dark Gry Moist Clay			2	1.3	28
			3	B	
			2		
Grey Moist Clay w/Orange Oxidation Spots			2	1.0	29
		-10	2	B	
	440.90				
Grey Very Moist CLAY LOAM			1		
CLASSIFICATION P10-1*			1	0.5	25
Free Water			1	B	
	439.40				
Grey SAND			1		
Fine			1		
		-15	1		
			1		
Medium (Washed)			1		
			2		
	432.90		1		
Grey Very Moist SILTY CLAY			0	0.1	32
		-20	0	P	
Grey Very Moist SILTY CLAY (continued)	431.40				
Grey SAND			3		
Coarse w/Some 1/4" Pea Gravel (Washed)			5		
			6		
			1		
Medium (Washed)			2		
		-25	3		
			6		
Grey Fine Sandy Gravel			5		
Begin Rotary Mud Drilling			9		
Adjusted Sample Interval					
		-30			
Grey Medium to Coarse Sand w/Some 1/4" Pea Gravel			7		
			7		
			9		
		-35			
			4		
Grey Medium to Coarse Sand w/ Some 1/4" Pea Gravel			6		
			8		
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H – Sampler Advanced By Weight of Hammer, W.O.P – Advanced by Weight of Pipe, B.S. – Before Seating
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)

File Name S:\SOIL\DGN\T FILES\CAR05L_7N AT SANGAMON RIVER.LOG Data Template DOTSAVE7.CDOT Date Printed 6/29/08
Latitude 40°12'10.0N Longitude 89°54'48.0W Datum NAD83 Job Number D-94-000-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 2

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Groundwater Elev.:
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Upon Completion N/A ft
After Hrs. Plugged ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Grey SAND (continued)					
			4		
Grey Fine to Medium Sand			11		
			16		
		-45			
	405.90				
Grey Moist SILT					
			31		
			13	1.4	24
			10	B	
	401.90	-50			
Grey SAND					
		-55			
			4		
Coarse Sand with Some 1/4" Pea Gravel			11		
			10		
		-60			
Grey SAND (continued)					
Assumed Limestone Cobble		-65			
Medium Sand			2		
			5		
			8		
		-70			
	380.40				
Light Grey Well Indurated Crystalline LIMESTONE (Poor Recovery – Light Grey Crystalline Chips in Return Mud) Rotary Drilled 0.4 ft in 17 minutes	379.40		100/1"		
Boring Completed					
*CLASSIFICATION P10-1					
65% Passing #200					
20% Clay /45% Silt/35% Sand		-75			
LL=25 PI=9					
		-80			

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BORINGS (SHEET 12)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

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