STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	212
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 76
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 4

Date 11-20-07
08-20-08

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

SECTION 144(B-1) LOCATION SE 14, 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. 0610-P3 Pier 3
Station 908+66
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 437.9 ft
Upon Completion N/A ft
After Hrs. Plugged ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
Dark Grey Moist CLAY LOAM Ref Class P2-1			1 2 3	1.6 S-12	15
	448.40				
Brown and Grey Moist CLAY LOAM Ref Class P2-2		-5	1 2 2	1.2 B	21
	443.90		1 1 1	0.8 B	26
Brown & Dark Grey Moist CLAY CLASSIFICATION P3-1 94% Passing #200 47% Clay /47% Silt/6% Sand LL=59 PI=34		-10	1 1 2	1.0 B	34
	441.40				
Grey Wet CLAY LOAM CLASSIFICATION P3-2 64% Passing #200 22% Clay /42% Silt/36% Sand LL=30 PI=11			0 1 1	0.2 B	52
	437.90		1		
Grey Medium SAND Free Water GRADATION P3-G1		-15	1 1		
	436.40				
Grey Medium to Coarse SAND (Washed Very Poor Recovery)			0 1 1		
	433.90				
Grey Fine SAND GRADATION P3-G2		-20	1 2 4		

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
Grey Fine SAND (continued)			1 3 4		
	428.90				
Grey Fine SAND w/Some 1/4" Pea Gravel (Washed)		-25	1 3 3		
(Washed)		-30	2 3 6		
Begin Mud Rotary Drilling Adjust Sample Interval		-35	4 7 8		
	415.90				
Grey Medium SAND w/Some Small Pea Gravel GRADATION P3-G4		-40	4 8 10		

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:\DOLD\DIST FILES\CASS\L 78 AT SANGAMON RIVER\LP1 Date Template INTERSPLT.GDT Date Printed 6/26/08
Latitude 40°N/LAT Longitude 90°W/LON Datum NAD83 Job Number D-88-005-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 4

Date 11-20-07
08-20-08

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

SECTION 144(B-1) LOCATION SE 14, 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. 0610-P3 Pier 3
Station 908+66
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 437.9 ft
Upon Completion N/A ft
After Hrs. Plugged ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
Grey Medium SAND w/Some Small Pea Gravel (continued)					
	409.90				
Grey Medium to Coarse SAND w/ Some 1/4" Pea Gravel GRADATION P3-G5		-45	3 5 7		
	405.90				
Tan Fine SAND GRADATION P3-G6		-55	2 3 5		
	398.90				
Grey Fine SAND to Grey Medium SANDY GRAVEL GRADATION P3-G7		-65	3 4 5		
Grey Fine SAND to Grey Medium SANDY GRAVEL (continued)					
	388.90				
Grey Medium SAND		-85			
GRADATION P3-G8		-70	1 2 4		
	380.90				
Grey Medium SANDY GRAVEL (Poor Recovery)					
	378.90		17		
Borehole continued with rock coring.		-75	100/3"		
		-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
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Latitude 40°N/LAT Longitude 90°W/LON Datum NAD83 Job Number D-88-005-07

BORINGS (SHEET 4)
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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