STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 769	110B-2	MACOUPIN	98	75
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 35
38 SHEETS

Contract #72813

Illinois Department of Transportation
Division of Highways
District - Materials

SOIL BORING LOG

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Date 4/9/07

ROUTE FA 769 (IL 108) DESCRIPTION West Pier over Macoupin Creek LOGGED BY M. Toppan

SECTION 110B-2 LOCATION NE 1/4, SEC. 35, TWP. 10N, RNG. 7W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140# Auto.

STRUCT. NO. 059-0509 Pr / 059-0023 Ex.
Station 104+41
BORING NO. B2 Pier #1
Station 103+76
Offset 25.0ft Lt
Ground Surface Elev. 558.9 ft

Surface Water Elev. 549.6 ft
Stream Bed Elev. 545.3 ft
Groundwater Elev.:
∇ First Encounter 546.9 ft
∇ Upon Completion Dried ft
∇ After 24 Hrs. 553.4 ft

DEPTH (ft)	BLOWS /6"	UCS (tsf)	MOIST (%)
Brown and Gray Moist SAND LOAM			
555.40	1		
	2	0.4	19
	2	S-10	
Brown and gray Moist SILTY CLAY LOAM w/ Thin Brown Med Sand Seams	0		
	1	0.4	26
	2	B	
Gray Wet SILTY CLAY LOAM W.O.H.	0		
	0	0.2	27
	0	B	
w/ Gray Med Sand Seams W.O.H.	0		
	0	0.1	29
	0	B	
w/ Clayey Shale Residuum Free Water	0		
545.90	0	0.3	30
	1	B	
Gray Weil Indurated Crystalline LIMESTONE Started Rock Core at 14'			
544.90			
Borehole continued with rock coring.			

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 I37 (Rev. 8-99)

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ROCK BORING LOG

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Date 4/9/07

ROUTE FA 769 (IL 108) DESCRIPTION West Pier over Macoupin Creek LOGGED BY M. Toppan

SECTION 110B-2 LOCATION NE 1/4, SEC. 35, TWP. 10N, RNG. 7W, 3 PM

COUNTY Macoupin CORING METHOD Water

STRUCT. NO. 059-0509 Pr / 059-0023 Ex. CORING BARREL TYPE & SIZE NXDWL
Station 104+41
BORING NO. B2 Pier #1
Station 103+76
Offset 25.0ft Lt
Ground Surface Elev. 558.9 ft

Core Diameter 1.88 in
Top of Rock Elev. 544.90 ft
Begin Core Elev. 544.90 ft

DEPTH (ft)	CORE (%)	RECOVERY	RQD	CORE TIME (min/ft)	STRENGTH (tsf)
Gray Weil Indurated Crystalline LIMESTONE, broken into 1"-2" pieces of Dk Gray Poorly Indurated Clayey Shale interbedded w/ <1/2" seams of poorly Indurated crystalline Limestone closed joints 2"-12"	544.90				
	1	90	51		3.1
Lt Brownish Gray Med Indurated Fossiliferous Crystalline LIMESTONE interbedded w/ Poorly Indurated Clayey Shale w/ seams <1/2"-1" Open Jointing 2"-12" Filled w/ Clayey Shale	540.10				
	2	98	68		35.4
Dk Gray V. Weil Indurated Clayey SHALE w/ Calcareous Shale Seams Closed Jointing 1'-3'	535.30				
	3	100	100		21.7
Dk Gray V. Weil Indurated Clayey SHALE w/ Calcareous Shale Seams Closed Jointing 1'-3'	530.50				
	4	100	96		50
Dk Gray V. Weil Indurated Clayey SHALE w/ Calcareous Shale Seams Closed Jointing 1'-3'	525.70				

The "Strength" column represents the unixial compressive strength of the core sample (ASTM D-2938)
ROD is the ratio of the total length of sound core specimens >4" to total length of core run

BORING LOGS
F.A.P. ROUTE 769 - SEC. 110B-2
MACOUPIN COUNTY
STATION 104+41.00
STRUCTURE NO. 059-0509

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