STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 776	(116BR -3)B-1	HAMILTON	140	86
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT=		

SHEET NO. 21
21 SHEETS

Contract #78006

Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. D-7

SOIL BORING LOG

Page 1 of 2

Date 8/16/05

ROUTE FAP 776 (IL 142) DESCRIPTION Un-Named Stream LOGGED BY E. Sandschafer
SECTION (116BR-1, BR-2, BR-3)B-1 LOCATION SE 1/4, SEC. 31, TWP. 6 S, RNG. 7 E, 3 PM
COUNTY Hamilton DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 033-0022
Station 545+50

BORING NO. 4
Station 546+26
Offset 8.60ft Rt
Ground Surface Elev. 370.73 ft

Surface Water Elev. 358.29 ft
Stream Bed Elev. 358.29 ft

Groundwater Elev.:
First Encounter 340.8 ft
Upon Completion 349.7 ft
After ____ Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
369.63			
13" Asphalt.			
368.83			
9 1/2" Concrete pavement.			
	2		
	3	0.7	28
	4	B	
Medium, damp, gray, CLAY w/ trace Silt.			
366.23			
-5	0		
	2	0.4	32
	3	B	
Soft, damp, gray, SILTY CLAY.			
363.73			
	0		
	2	0.9	30
-10	3	B	
	1		
	3	1.2	28
	3	B	
Medium to stiff, damp, gray, CLAY w/ trace Silt.			
	2		
	4	1.5	29
	4	B	
-15	1		
	3	1.0	23
	4	B	
	1		
	3	1.7	29
	3	BS	
351.23			
-20	1		
Gray marbled red, w/ trace fine gravel.			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	1	0.5	21
	2	B	
Soft to medium, damp, brown/red, SILTY CLAY. *(continued)*			
	0		
	0	0.7	22
	2	B	
345.73			
-25	0		
	1	0.4	20
	2	B	
Soft, very damp, gray, LOAM.			
343.73			
	0		
	2	1.2	23
	3	B	
Stiff, damp, gray mottled red, CLAY.			
341.23			
-30	0		
	1	0.3	26
	3	B	
Soft, very damp, brown, SANDY CLAY w/ one 1" sand lense.			
336.13			
-35	2		
	7		16
	10		
Medium, wet, gray, fine grained, SAND. *17% passing #200 sieve.*			
331.23			
-40	2		

Latitude N 37 deg 57.070 min, Longitude W 88 deg 28.134 min, Map Datum WGS 84

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)

Illinois Department of Transportation
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SOIL BORING LOG

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Date 8/16/05

ROUTE FAP 776 (IL 142) DESCRIPTION Un-Named Stream LOGGED BY E. Sandschafer
SECTION (116BR-1, BR-2, BR-3)B-1 LOCATION SE 1/4, SEC. 31, TWP. 6 S, RNG. 7 E, 3 PM
COUNTY Hamilton DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 033-0022
Station 545+50

BORING NO. 4
Station 546+26
Offset 8.60ft Rt
Ground Surface Elev. 370.73 ft

Surface Water Elev. 358.29 ft
Stream Bed Elev. 358.29 ft

Groundwater Elev.:
First Encounter 340.8 ft
Upon Completion 349.7 ft
After ____ Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	5	1.8	23
	8	B	
Stiff, damp, gray, CLAY w/ trace Silt. *(continued)*			
326.23			
-45	4		
	11	1.3	23
	12	S	
Stiff, damp, gray, SANDY LOAM.			
321.23			
320.73 -50	4		
	7	3.0	17
	8	BS	
Gray, fine grained, SAND w/ many organics and wood fibers. *30% passing #200 sieve.*			
Very stiff, damp, gray, SANDY CLAY TILL.			
315.73 -55			
Very dense, moist, gray, CLAY SHALE.			
-60	50/5"		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
310.53	50/2"		6
Extent of exploration.	50/1"		
-65			
Benchmark: BM 512 chiseled square on top of NE hubguard of existing bridge Station 543+60, Lt 17' = 371.36', provided by Program Development.			
Note: Two sets of conflicting stationing present, borings referenced off nails on centerline.			
B1 - 75' N of center of existing bridge.			
B2 - 39' N of center of existing bridge.			
B3 - 20' S of center of existing bridge.			
B4 - 76' S of center of existing bridge.			
-70			
-75			
-80			

Latitude N 37 deg 57.070 min, Longitude W 88 deg 28.134 min, Map Datum WGS 84

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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)

BORING 4

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
HLR
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-41-0021-1	DATE: 10/25/07
DESIGNED: R.J.P.	CHECKED: S.W.M.
	DRAWN: D.A.B.

BORING 4
IL RTE. 142 OVER CONTRARY CREEK (SOUTH OVERFLOW)
F.A.P. ROUTE 776 - SECTION (116BR-3)B-1
HAMILTON COUNTY
STRUCTURE NO. 033-0052 / STATION 544+53.10

PLOT DATE = 10/26/2007 FILE NAME = 03300052-78006-4102tbr-idge0052.dgn