Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 2/15/11

ROUTE FAI 80 (I-80) DESCRIPTION EB I-80 Princeton Rest Area Overhead Sign Truss (MP 50.9) LOGGED BY Larry Myers

SECTION 12-04 D-3 OVD SIGN STR REPL LOCATION NE 1/4, SEC. 9, TWP. 16N, RNG. 8E

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 3C006I080R050.9
Station 839+25

BORING NO. 2
Station 839+27
Offset 83.50ft Rt.
Ground Surface Elev. 99.34 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Augered Bituminous Shoulder, CA Stone, Gray/Brown Silty Clay Fill			
96.84			
Stiff to Very Stiff Gray & Brown Silty Clay with Silt Pockets – Fill	3		
	4	2.0	20.9
	5	P	
-5			
	3		
	4	1.8	15.3
	5	S	
	4		
	4	3.0	20.0
	6	S	
89.84			
Very Stiff to Hard, Gray, Brown, Black Silty Clay, Silty Clay Loam, some Till Fill with some Sand Layers	-10		
	4		
	7	4.0	15.0
	10	P	
	8		
	10	4.3	14.5
	7	P	
-15			
	6		
	7	3.5	16.9
	8	S	
82.34			
Very Stiff Dark Gray & Brown Silty Clay/Silty Clay Loam with Sand Seams Fill	6		
	7	3.4	17.3
	10	S	
-20			

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Very Stiff Dark Gray & Brown Silty Clay/Silty Clay Loam with Sand Seams Fill (continued)	6		
	6	3.8	14.1
	9	S	
77.34			
Very Stiff Black Silty Clay/Silty Clay Loam Topsoil & Brown Silty Clay/Silty Clay Loam Interbedded Possibly Fill	7		
	8	3.6	19.8
	8	S	
-25			
	9		
	11	4.0	20.1
	9	S	
72.84			
End of Boring			
-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)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation

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SOIL BORING LOG

Date 2/15/11

ROUTE FAI 80 (I-80) DESCRIPTION WB I-80 Princeton Rest Area Overhead Sign Truss (MP 51.7) LOGGED BY Larry Myers

SECTION 12-04 D-3 OVD SIGN STR REPL LOCATION NE 1/4, SEC. 10, TWP. 16N, RNG. 8E

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 3C006I080L051.7
Station 886+45

BORING NO. 1
Station 886+45
Offset 81.30ft Lt.
Ground Surface Elev. 99.23 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 84.2 ft ▼
Upon Completion 88.7 ft ▽
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Augered Concrete Shoulder, CA Gravel, Gray/Black Silty Clay Loam Fill			
96.73			
Hard to Very Stiff Gray/Black Silty Clay Loam & Silty Clay Fill	5		
	5	4.5	18.8
	6	P	
94.73			
Very Stiff Gray & Brown Silty Clay Loess	-5		
	4		
	4	3.1	25.3
	5	B	
	4		
	3	2.0	28.9
	3	B	
89.73			
Stiff Light Gray Silt & Silty Clay	-10		
▽	3		
	3	1.5	27.9
	3	B	
	3		
	4	2.0	25.1
	5	P	
85.23			
Medium Rust Red Fine Sand to Medium Gravel – Somewhat Loamy with Free Water @ 15'	▼ -15		
	5		
	13		14.4
	14		
82.23			
Dense Gray Fine Sand to Medium Gravel	13		
	18		14.9
	24		
79.23 -20			

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Very Stiff to Stiff Purplish Gray Silty Clay Loam Till	4		
	5	2.0	13.4
	6	B	
	3		
	4	1.8	14.4
	5	B	
-25			
	4		
	4	2.2	10.8
72.73	5	B	
End of Boring			
-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)

BBS, form 137 (Rev. 8-99)

FILE NAME = c:\pw_work\pwidot\patelyj\d0257844\D346177-Sign Truss-sht-details.DGN	USER NAME = patelyj	DESIGNED - YOGESH PATEL	REVISED -
		DRAWN - YOGESH PATEL	REVISED -
	PLOT SCALE = 100.0093 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Mar 14, 2011 - 02:02:13 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	D-3 OVD SIGN STR REPL 12-04	BUREAU	17	17
		CONTRACT NO. 46177		
	ILLINOIS			