Testing Service Corporation

STRUCTURE BORING LOG

Date Started 10/13/09
Date Completed 10/13/09

ROUTE TR21 DESCRIPTION Hill Rd. Over N. Branch Nippersink Creek

SECT. 08-000356-00-BR STRUCT. NO. 056-3192 DRILLED BY TSC - L-72,490

COUNTY McHenry LOCATION S. End West Abutment S. 16E1/2 , TWP. 46N , RNG. 8E

Boring No. 1
Station 109+41
Offset 6.00ft Rt.
Surface Elev. 789.50 ft

Surface Water Elev. ____
Groundwater Elev.: when drilling 779.0 at Completion after ____ Hrs. ____

Description	Elev.	Blows	Qu tsf	W %
8.0" Asphaltic Concrete	789.50			
FILL - Brown SAND, little to some Gravel, moist A-1-b		12 17 21		3.7
FILL - Dark brown and black CLAY, trace gravel, little organic, moist to very moist A-6/A-7-6	786.50	8 6 9	P 1.75	22.0
		3 4 6	P 0.75	17.1
FILL - Dark brown and brown SANDY LOAM, trace gravel, little organic, very moist A-4	781.50	4 5 6		23.0
Medium dense gray SANDY LOAM, trace to little gravel, wet A-2-4	779.00	13 12 8		12.5
		14 11 12		19.2
Medium dense gray SILTY LOAM, occasional silt and sand seams, very moist A-4	774.00	5 7 8		19.2
		5 6 11		23.2
Medium dense gray SAND, trace to little gravel, wet to saturated A-1-b	769.00	10 11 16		
		5 6 8		

Description	Elev.	Blows	Qu tsf	W %
Medium dense gray SAND and GRAVEL, saturated A-1-a	764.00	7 7 8		
Dense gray fine to medium SAND, trace gravel, saturated A-3	761.80	9 12 22		
Very dense gray SAND and GRAVEL, occasional Cobbles, saturated A-1-a	756.60	12 42 20		
Loose gray SILTY LOAM, very moist A-4/A-6	751.50	4 3 4		15.6
Gus Pech GP-750 Truck Rig (#217) Rope and Cathead Hammer				
Very dense gray SAND and GRAVEL, saturated A-1-a	746.50	52 50/4"		
BOULDER	744.00	100/0"		
End of Boring at 46.0'	743.50			
Auger Refusal on Apparent Large Boulder				
Rotary Wash Drill Below 17.5'				

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

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ROUTE TR21 DESCRIPTION Hill Rd. Over N. Branch Nippersink Creek

SECT. 08-000356-00-BR STRUCT. NO. 056-3192 DRILLED BY TSC - L-72,490

COUNTY McHenry LOCATION N. End Center Pier S. 16E1/2 , TWP. 46N , RNG. 8E

Boring No. 2
Station 109+97
Offset 27.00ft Lt.
Surface Elev. 781.20 ft

Surface Water Elev. ____
Groundwater Elev.: when drilling 778.2 at Completion after 780.2 Hrs. ____

Description	Elev.	Blows	Qu tsf	W %
Very soft dark brown ORGANIC CLAY, very moist A-8		0 0 1	P <0.25	64.9
Loose dark brown to black silty SAND and GRAVEL, little organic, saturated A-2-4	778.20	3 3 4		16.6
Medium dense brown fine to medium SAND, trace to little gravel, saturated A-3	775.70	4 6 6		22.9
Medium stiff brown SILTY LOAM, occasional silt seams, very moist A-4	773.20	4 6 8	P 0.75	18.8
Medium dense brown fine to medium SAND, trace gravel, saturated A-3	770.70	19 12 14		
Stiff gray SILTY CLAY LOAM, occasional silt seams, very moist A-4/A-6	768.20	3 4 5	P 1.0	25.2
Medium dense to dense brownish-gray to brown SAND, little gravel, saturated A-1-b	765.70	9 10 10		
		12 16 20		
		6 9 15		
		11 19 22		

Description	Elev.	Blows	Qu tsf	W %
Medium dense to dense brownish-gray to brown SAND, little gravel, saturated A-1-b		13 18 24		
		8 13 15		
Medium stiff to stiff brown CLAY LOAM, very moist A-4/A-6	749.20	3 5 5	P 1.0	10.7
		3 5 9	B 0.8 15%	10.7
Medium dense SANDY LOAM, trace gravel, occasional sand layers, very moist A-4	739.20	10 13 15		11.2
Hard brown CLAY LOAM, trace gravel, damp to moist A-4	734.20	28 36 49	B 11.21 15%	8.3

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
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Testing Service Corporation

STRUCTURE BORING LOG

Date Started 10/13/09
Date Completed 10/13/09

STRUCTURE NO. 056-3192
ROUTE TR21
SECTION 08-000356-00-BR
COUNTY McHenry

Boring No. 2
Station 109+97
Offset 27.00ft Lt.
Elevation 731.20 ft

Description	Elev.	Blows	Qu tsf	W %
Hard brown CLAY LOAM, trace gravel, damp to moist A-4				
Very dense brown SAND and GRAVEL, saturated A-1-a	726.70 / 726.20	31 42 46	B 10.4 15%	8.3
End of Boring at 55.0'				
Diedrich D-50 ATV Drill Rig (#314)				
CME Automatic Hammer				
3.25" (83 mm) ID HSA				

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

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STRAND ASSOCIATES®	1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf	DESIGNED RRD	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION HILL ROAD BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK	SOIL BORING LOG (1 OF 6) STRUCTURE NO. 056-3192	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			CHECKED AJS	REVISED -			21	08-00356-00-BR	MCHENRY	77	51
		PLOT SCALE =	DRAWN BJF	REVISED -					CONTRACT NO. 63666		
		PLOT DATE = 8/23/2012	CHECKED RRD	REVISED -		SHEET NO. 16 OF 27 SHEETS			ILLINOIS FED. AID PROJECT		