

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	348
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* 125X-HB-(1&2) R-1		CONTRACT # 60826		

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amber Court, Suite 204
Naperville, Illinois 60565
(630) 355-1236

PAGE 1 of 2
DATE 10/14/2004
LOGGED BY TOB
GSI JOB No. 0314

ROUTE FAP Rte. 346 DESCRIPTION New Overpass
TWNESHIP Gurnee LOCATION TWP 44 N, R 6E on the south boundary of Sec 28
COUNTY Lake DRILLING METHOD 3.25' HSA/Rotary HAMMER TYPE D-120 Safety Hammer

STRUCT. NO. SN 049-W037
Station _____
BORING NO. P-1
Station 538+15.8 US 41 Centerline
Offset 45.25' Left
Ground Surface Elev. 695.1

DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	DESCRIPTION
0				Surface Water Elev. n/a	0				Surface Water Elev. n/a
0				Stream Bed Elev. n/a	0				Stream Bed Elev. n/a
				Groundwater Elevation:					Groundwater Elevation:
				First Encounter n/a					First Encounter n/a
				Upon Completion n/a					Upon Completion n/a
				After _____ Hrs.					After _____ Hrs.
0				3.0" ASPHALT, 9.0" CRUSHED STONE	0				CLAY-gray-stiff to very stiff (A-6)
4				694.2	5			117	
6					7				
8			NR	CLAY-brown & gray spotted black-stuff to very stiff (A-6) Fill	10	4.6B		16	
4					4			106	
6					8				
-5	9	2.5P	18		-25	10	2.7B	22	
3					5			104	
3					8				
7		1.25B	23		14	2.1B		23	
3				687.1	5			115	
2				CLAY-brown-soft (A-6) Wet	7				
-10	4	0.25P	27		-30	13	2.1B	18	
3									
2				683.1					
1		NP	13	SAND & GRAVEL-brown-medium dense (A-1)					
4				681.6	7				
7			116		11				
-15	10	4.25B	17	CLAY-brown-hard (A-6)	-35	18	NP	19	
8									
10									
15		6.5B	17						
7				677.1					
7			117	CLAY-gray-stiff (A-6)					
9				656.1	10	1.0P			
-20	14	5.5B	16	SAND & GRAVEL-gray-medium dense to dense (A-1)	-40	11	NP	20	

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				Groundwater Elevation:					Groundwater Elevation:
				First Encounter n/a					First Encounter n/a
				Upon Completion n/a					Upon Completion n/a
				After _____ Hrs.					After _____ Hrs.
				CLAY-gray-stiff to very stiff (A-6)					
				SAND & GRAVEL-gray-medium dense to dense (A-1)					
				632.1					
					9			12	
					12			11	
-45	11	NP	9	SAND-gray-medium dense (A-3)	-65	15	NP	16	
				627.1					
				SAND & GRAVEL-gray-medium dense (A-1)					
					10			14	
					12			12	
-50	18	NP		625.1	-70	9	NP	10	
				End of Boring @ -70.0' Hollow Stem Augers to -5.0' Rotary Drilling to Completion D-120 Safety Hammer					
				642.1					
					4			121	
					8				
-55	10	3.0P	15	CLAY-gray-stiff to very stiff (A-6)	-75				
					3			108	
					4				
-60	8	1.1B	21		-80				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)

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TYLIN INTERNATIONAL

DESIGNED	- SNB
CHECKED	- AD
DRAWN	- SNB
CHECKED	- AD

BORING LOG P-1

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132
SECTION 125X-HB-(1&2)R-1
LAKE COUNTY
S.N. 049-W037