

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	13
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

13 SHEETS

• 125X-HB-(1&2) R-1 CONTRACT # 60826

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 395-1236

PAGE 1 of 2
DATE 9/16/2004
LOGGED BY IOB
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-W038
Station _____
BORING NO. Q-4
Station 403+39.0 Ramp D Baseline
Offset 14.3' Left
Ground Surface Elev. 696.7

DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)	DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)
695.2	7		119	6			111
693.2	7	6.2B	16	7	10	5.1B	19
690.7	7		100	8	12	3.5B	17
688.2	10	1.9B	24	9	22		
683.7	3		107	10	9	4.0P	11
681.7	11	1.5P	21	11	10		
	7		118	12	16		
	5	1.8B	16	13	13		
	5		102	14	18	NP	17
	6			15	13		
	9	1.8B	17	16	18		
	9			17	18		

TOPSOIL-black (A-7)
CLAY-brown & gray-hard (A-6) Fill
SILTY LOAM-brown & gray-medium dense (A-4) Fill
CLAY-brown & gray-stiff (A-6) Fill
CLAY-brown & gray-stiff to very stiff (A-6)
SILT-brown & gray-medium dense (A-4)
CLAY-gray-stiff to hard (A-6)

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After _____ Hrs.

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Ground Surface Elev. 696.7

DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)	DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)
633.2	10		118	11	135		
626.7	5		18	12	18		
641.7	6		123	13	13		
	8	2.5B	14	14	13		
	8			15	13		
	9	2.5B	9	16	18	NP	17
	9			17	18		

Fine SAND-gray-dense (A-3)
CLAY-gray-stiff to hard (A-6)
SAND & GRAVEL-gray-medium dense to dense (A-1)
End of Boring @ -70.0'
Hollow Stem Augers to -10.0'
Rotary Drilling to Completion
D-120 Safety Hammer
Fine SAND-gray-dense (A-3)

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After _____ Hrs.

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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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 (%)

TYLIN INTERNATIONAL

DESIGNED	- MAF
CHECKED	- AD
DRAWN	- MAF
CHECKED	- AD

BORING LOG Q-4

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132 SECTION 125X-HB-(1&2)R-1 LAKE COUNTY S.N. 049-W038