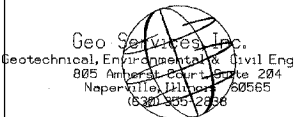
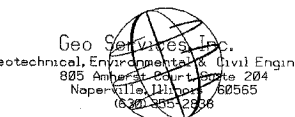


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	17
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
125X-HB-(1&2) R-1		CONTRACT # 60826		

 <p>Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amber Court, Suite 204 Naperville, Illinois 60565 (630) 395-1236</p>										<p align="center">SOIL BORING LOG</p>																			
ROUTE <u>FAP Rte. 346</u> DESCRIPTION <u>New Overpass</u> TWNSHP <u>Gurnee</u> LOCATION <u>TWP 44 N, R 6E on the south boundary of Sec 28</u> COUNTY <u>Lake</u> DRILLING METHOD <u>3.25" HSA/Rotary</u> HAMMER TYPE <u>CME-75 Auto Hammer</u>					PAGE <u>1</u> of <u>2</u> DATE <u>10/11/2004</u> LOGGED BY <u>TOB</u> GSI JOB No. <u>0314</u>					SURFACE WATER Elev. <u>n/a</u> Stream Bed Elev. <u>n/a</u> Groundwater Elevation: First Encounter <u>n/a</u> Upon Completion <u>n/a</u> After _____ Hrs.					DEPTH (ft) (ft) (ft) (ft) BLOW (blows) (blows) (blows) (blows) UCS (tsf) (tsf) (tsf) (tsf) MOIST (%) (%) (%) (%)														
STRUCT. NO. <u>SN 049-W034</u> Station _____ BORING NO. <u>M-4</u> Station <u>212+04.8 Ramp B Baseline</u> Offset <u>0.25' Left</u> Ground Surface Elev. <u>698.3</u>										TOPSOIL with Sand & Gravel-dark brown (Fill) 697.3 CLAY-brown, gray & black-very stiff (A-6) Fill 694.8 CLAY-brown & gray-medium stiff (A-6) 692.3 CLAY-brown & gray-hard (A-6) 683.3 CLAY-gray-stiff to very stiff (A-6) 659.8										CLAY-gray-stiff to very stiff (A-6) CLAY-gray-very stiff to hard (A-6) SAND-gray-medium dense (A-3) SAND & GRAVEL-gray-dense (A-1)									
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 (%)										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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STRUCT. NO. <u>SN 049-W034</u> Station _____ BORING NO. <u>M-4</u> Station <u>212+04.8 Ramp B Baseline</u> Offset <u>0.25' Left</u> Ground Surface Elev. <u>698.3</u>										CLAY-gray-very stiff to hard (A-6) 634.8 SAND-gray-medium dense (A-3) 624.3 SAND & GRAVEL-gray-dense (A-1) 623.3 End of Boring @ -75.0' Hollow Stem Augers to -10.0' Rotary Drilling to Completion CME-75 Automatic Hammer									
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 (%)										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 (%)									

TYLIN INTERNATIONAL

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

BORING LOG M-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-W034