

ROUTE NO.	SECTION	COUNTY	JOB NO.	SHEET NO.	SHEET NO. 33 35 SHEETS
FAU 3578	1327B	COOK	108	61	
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-	

Geo Services, Inc. Geotechnical, Environmental & Civil Engineering  
202 Naperville, Illinois 60563 (815) 351-2828

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DATE Sept. 29, 2004  
LOGGED BY TOB  
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Bridge Foundation  
TWNESHIP Orland LOCATION Township 36 N Range 12 E Orland Park, IL  
COUNTY Cook DRILLING METHOD 3.25" HSA/Rotary HAMMER TYPE Automatic

STRUCT. NO. E 016-0465/P 016-2847  
Station \_\_\_\_\_  
BORING NO. BR-3 & BR-3A  
Northing 1810452.1  
Easting 1115373.2  
Ground Surface Elev. 694.2

DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)	Surface Water Elev. n/a	Stream Bed Elev. n/a	Groundwater Elevation: First Encounter n/a	Upon Completion n/a	After Hrs.
0								
2								
8								
45	5	3.5P	17					629.2
7								
11								
50	12	2.0P	19					644.2
8								
9								
55	13	4.8B	12					639.2
16								
22								
60	18	NP	13					614.2

CLAY-gray-very stiff to hard (A-6)  
SANDY LOAM-gray-dense to very dense (A-2)  
SILTY CLAY-gray-hard (A-6)  
SANDY LOAM-gray-dense to very dense (A-2)  
SILTY CLAY-gray-hard (A-6)  
SANDY LOAM-gray-dense to very dense (A-2)

Drillers Note: Refusal @ -43.0', unknown obstruction. Boring offset to BR-3A location and blind drilled to 43.5'.  
No recovery from -73.5' to -75.0'. Possible cobble or boulder.  
End Of Boring @ -80.0' Hollow Stem Augers to -10.0' Rotary Drilling to Completion CME-75 Automatic Hammer

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ROUTE IL Route 7 DESCRIPTION Retaining Wall  
TWNESHIP Orland LOCATION Township 36 N Range 12 E Orland Park, IL  
COUNTY Cook DRILLING METHOD Rotary HAMMER TYPE Automatic

STRUCT. NO. \_\_\_\_\_  
Station \_\_\_\_\_  
BORING NO. BR-4  
Northing 1810208.4  
Easting 1115257.9  
Ground Surface Elev. 677.1

DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)	Surface Water Elev. n/a	Stream Bed Elev. n/a	Groundwater Elevation: First Encounter Dry	Upon Completion Dry	After Hrs.
0								
17								
6		NP	8					
9								
2								
5								
2		1.5P	21					652.1
3								
4		4.4B	16					117
6								
4								
7								
11		6.2B	15					667.1
4								
6		4.0B	19					111
4								
5								
7		2.5P	16					119
3								
5								
6		2.7B	20					109
4								
5								
7		2.7B	20					110

2.0" ASPHALT, 10.0" CRUSHED STONE  
SANDY LOAM-brown-medium dense (A-2-6) Fill  
CLAY-gray-stiff to hard (A-6)  
CLAY-brown & gray-stiff to hard (A-6)  
CLAY-gray-stiff to hard (A-6)

End Of Boring @ -25.0' Hollow Stem Augers CME-75 Automatic Hammer

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ROUTE IL Route 7 DESCRIPTION Retaining Wall  
TWNESHIP Orland LOCATION Township 36 N Range 12 E Orland Park, IL  
COUNTY Cook DRILLING METHOD Rotary HAMMER TYPE Automatic

STRUCT. NO. \_\_\_\_\_  
Station \_\_\_\_\_  
BORING NO. BR-5  
Northing 1810404.3  
Easting 1115249.6  
Ground Surface Elev. 677.0

DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)	Surface Water Elev. n/a	Stream Bed Elev. n/a	Groundwater Elevation: First Encounter 656.0	Upon Completion Dry	After Hrs.
0								
6								
7		4.5+P	9					656.0
6								
4								
3								
4								
5								
8		0.9B	23					652.0
1								
3								
3		1.0P	29					104
2								
3								
10		2.5P	18					668.0
4								
6								
9		3.7B	15					113
6								
9								
6								
8								
15		3.5B	20					110
5								
5								
8		2.5P	17					115
4								
5								
6		2.5P	17					110

2.0" ASPHALT, 10.0" CRUSHED STONE  
CLAY LOAM-brown-hard (A-4/A-6) Fill  
CLAY-brown & gray spotted black-medium stiff to stiff (A-6) Fill, Wet  
CLAY-gray-stiff to very stiff (A-6)  
CLAY-brown & gray-stiff (A-6)  
CLAY-gray-stiff to very stiff (A-6)

End Of Boring @ -25.0' Hollow Stem Augers 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 (%)

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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 (%)

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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 (%)

DESIGNED	-
CHECKED	-
DRAWN	GM
CHECKED	JJI

**B** Bollinger, Lach & Associates, Inc.

SOIL BORING LOGS BR-3, BR-4 & BR-5  
IL 7 (SOUTHWEST HIGHWAY) OVER  
US 45 (LA GRANGE ROAD)  
F.A.U. ROUTE 3578 SECTION 1327B  
COOK COUNTY  
STA. 1516+85.79  
STRUCTURE NUMBER 016-2847