

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 357B	1327B	COOK	108	75
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 12
22 SHEETS

PAGE 2 of 2
DATE 10/1, 2004
LOGGED BY TOB
GSI JOB No. 0444

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2836

SOIL BORING LOG

ROUTE IL Route 7 DESCRIPTION Retaining Wall
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. 016-W970
Station _____
BORING NO. R-2
Northing 1809645.4, Sta. 1507+45.18
Easting 1114690.3, Offset 12.40' LT.
Ground Surface Elev. 684.3

DEPTH (ft)	BLOW COUNT (tsf)	UCS (%)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (tsf)	UCS (%)	MOISTURE (%)
				CLAY-gray-stiff to very stiff (A-6)				
640.8				CLAY-gray-very stiff to hard (A-6)				
3		118			8			
5					6			
-45	7	3.5B	16		-65	11	4.0P	11
				CLAY-gray-very stiff to hard (A-6)				
6		126			7			126
9					11			
-50	11	7.1B	13		-70	14	4.25B	12
4		125			18			128
6					26			
-55	8	2.5B	13		37	4.9B	12	
				609.3				
				End Of Boring @ -75.0' Hollow Stem Augers to -10.0' Rotary Drilling to Completion CME-75 Automatic Hammer				
8		120						
9								
-60	14	3.1B	15		-80			

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SOIL BORING LOG

ROUTE IL Route 7 DESCRIPTION Retaining Wall
TWNESHIP Orland LOCATION Township 36 N Range 12 E Orland Park, IL
COUNTY Cook DRILLING METHOD 4.0" Hollow Stem Augers HAMMER TYPE Automatic

STRUCT. NO. 016-W970
Station _____
BORING NO. R-3
Northing 1809700.6, Sta. 1508+17.76
Easting 1114737.5, Offset 12.03' LT.
Ground Surface Elev. 682.6

DEPTH (ft)	BLOW COUNT (tsf)	UCS (%)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (tsf)	UCS (%)	MOISTURE (%)
681.5				6.0" ASPHALT, 7.0" CRUSHED STONE	661.6			
5					0			
4				CLAY-brown & gray-hard (A-6) Fill	1			
6	4.0P	19			4	0.5P	117	
679.1				ORGANIC CLAY with fibrous peat-dark brown (A-8)	659.1			
3		98			1			107
3					1			
-5	3	0.9B	27	CLAY-brown & gray spotted black-medium stiff (A-6) Fill, Wet	-25	2	0.5B	22
				CLAY-gray-medium stiff to stiff (A-6)				
1					1			114
3					4			
3	0.75P	33			5	1.6B	18	
674.1				654.1				
2		82			3			117
2					5			
-10	3	0.4B	36	ORGANIC CLAY-dark gray & black (A-7/A-8)	-30	7	2.2B	17
				CLAY-gray-very stiff (A-6)				
1		71						
2					2			115
3	0.4B	52			5			
669.1				ORGANIC CLAY with fibrous peat-dark brown (A-8)	-35	7	3.2B	17
1		31						
1					2			115
-15	1	0.5B	163		5			
					-55	7	3.2B	13
1		52						
2	0.5B	83			6			130
664.1				ORGANIC CLAY-dark gray & black (A-8)	-40	7	3.2B	19
1		57						
1					19			
-20	1	0.5B	69		-60	30	3.5B	11

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SOIL BORING LOG

ROUTE IL Route 7 DESCRIPTION Retaining Wall
TWNESHIP Orland LOCATION Township 36 N Range 12 E Orland Park, IL
COUNTY Cook DRILLING METHOD 4.0" Hollow Stem Augers HAMMER TYPE Automatic

STRUCT. NO. 016-W970
Station _____
BORING NO. R-3
Northing 1809700.6, Sta. 1508+17.76
Easting 1114737.5, Offset 12.03' LT.
Ground Surface Elev. 682.6

DEPTH (ft)	BLOW COUNT (tsf)	UCS (%)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (tsf)	UCS (%)	MOISTURE (%)
				CLAY-gray-very stiff (A-6)				
				CLAY-gray-very stiff (A-6)				
3		117			8			129
4					9			
-45	8	3.4B	16		-65	14	2.8B	12
24					7			126
14					12			
-50	13	3.0P	14		-70	16	3.2B	13
3		125			10			129
5					14			
-55	7	3.2B	13		-75	14	3.4B	11
				607.6				
				End Of Boring @ -75.0' Hollow Stem Augers CME-75 Automatic Hammer				
6		130						
19								
-60	30	3.5B	11		-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test 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 (%) NR-No Recovery

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test 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 (%) NR-No Recovery

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test 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 (%) NR-No Recovery

DESIGNED	-
CHECKED	-
DRAWN	MD
CHECKED	SRT

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

SOIL BORING LOGS R-2 & R-3
NORTHWEST RETAINING WALL
IL. 7 (Southwest Highway)
F.A.U. ROUTE 357B SECTION 1327B
COOK COUNTY
STA. 1505+40.00 to STA. 1515+78.21
STRUCTURE NUMBER 016-W970