ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 3578	1327B	COOK	108	79
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 16
22 SHEETS

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 2 of 2
DATE September 27, 2004
LOGGED BY RJ
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Retaining Wall
TWNSHP Orland LOCATION Township 36 N Range 12 E Orland Park, IL
COUNTY Cook DRILLING METHOD 3.25" HSA/Rotary HAMMER TYPE Safety

STRUCT. NO. 016-W970
Station
BORING NO. R-8
Northing 1909984.4, Sta. 1511+90.22
Easting 1114978.7, Offset 11.25' LT.
Ground Surface Elev. 685.4

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM–gray–medium stiff to stiff (A–6)			9		125
			9		
		–45	12	0.9B	13
CLAY–gray–stiff to very stiff (A–6)	636.9		9		126
			11		
		–50	14	1.4B	15
CLAY–gray–stiff to very stiff (A–6)			13		128
			14		
		–55	18	2.7B	12
			6		
			9		
		–60	16	3.75P	11

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY–gray–stiff to very stiff (A–6)					
			15		
			13		
	620.4	–65	17	3.9B	12
End Of Boring @ –65.0' Hollow Stem Augers to –10.0' Rotary Drilling to Completion D-120 Safety Hammer					
		–70			
		–75			
		–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

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 1 of 2
DATE September 20, 2004
LOGGED BY TOB
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Retaining Wall
TWNSHP 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-9
Northing 1810046.6, Sta. 1512+69.54
Easting 1115028.0, Offset 13.83' LT.
Ground Surface Elev. 687.9

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED STONE	686.9		6		107
CLAY–gray–hard (A–6) Fill			4		
			4	4.25B	21
	684.4		2		101
CLAY–brown & gray–soft to medium stiff (A–6) Fill, Wet			2		
		–5	3	0.9B	25
			1		99
			2		
			4	0.5B	26
			1		101
			1		
		–10	5	0.9B	25
			1		
			1		
			1	0.25P	26
	674.4		1		96
CLAY LOAM–brown & gray–medium stiff (A–6) Wet		–15	1		
			2	0.9B	28
	671.9		1		70
ORGANIC CLAY–dark brown & gray–(A–8)			1		
			1	0.2B	52
	669.4		1		
CLAY–gray–soft (A–7) Wet		–20	1	0.25P	30

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY–gray–soft (A–7) Wet	666.9		2		109
			2		
			4	1.8B	20
			2		114
			3		
		–25	4	1.8B	18
CLAY–gray–stiff to hard (A–6)			3		112
			5		
			7	4.6B	19
			3		114
			4		
		–30	6	3.4B	18
			4		
			3		112
			3		
		–35	5	1.8B	19
			6		124
			3		
		–40	9	5.3B	13

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

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 2 of 2
DATE September 20, 2004
LOGGED BY TOB
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Retaining Wall
TWNSHP 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-9
Northing 1810046.6, Sta. 1512+69.54
Easting 1115028.0, Offset 13.83' LT.
Ground Surface Elev. 687.9

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY–gray–stiff to hard (A–6)			4		119
			7		
		–45	13	1.0B	15
	620.9		5		126
SILT–gray–dense (A–4)			7		
		–50	8	2.5B	13
End Of Boring @ –70.0' Hollow Stem Augers to –10.0' Rotary Drilling to Completion CME-75 Automatic Hammer					
			14		
			7		
		–55	8	3.5P	13
			11		128
			9		
		–60	9	2.8B	12

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY–gray–stiff to hard (A–6)					
			9		
			8		
		–65	12	3.5B	19
			20		
			20		
		–70	25	NP	21
		–75			
		–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

DESIGNED	-
CHECKED	-
DRAWN	MD
CHECKED	SRT

Bollinger, Lach & Associates, Inc.

SOIL BORING LOGS R-8 & R-9

NORTHWEST RETAINING WALL
IL. 7 (Southwest Highway)
F.A.U. ROUTE 3578 SECTION 1327B
COOK COUNTY
STA. 1505+40.00 to STA. 1515+78.21
STRUCTURE NUMBER 016-W970