CONTRACT NO. 62712

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 3578	1327B	COOK	108	82
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 19
22 SHEETS

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

SOIL BORING LOG

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

ROUTE IL Route 7 DESCRIPTION Retaining Wall
TWNSHP Orland Park LOCATION Township 36 N Range 12 E Orland Park, IL
COUNTY Cook DRILLING METHOD 3.5" Hollow Stem Augers HAMMER TYPE CME-75 Automatic

STRUCT. NO. 016-W970
Station XX
BORING NO. R-13
Station 1809614.8, Sta. 1507+10.02
Offset 1114672.1, Offset 6.50' LT.
Ground Surface Elev. 685.5

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 6.0" CRUSHED STONE	684.5				
CLAY–brown & gray– stiff to very stiff (A–6) Fill			2		102
			7		
			7	3.6B	19
			2		102
			4		
		–5	4	1.9B	22
			1		
			2		
			2	1.0P	23
			2		
			2		
		–10	2	2.0P	20
			1		
	673.5		2		
			3	1.25P	28
CLAYEY TOPSOIL–dark brown & black– medium stiff to stiff (A–7) Wet					
Vane Shear @ –15.0' Su (Peak) =1150psf		–15	VS	1150 (psf)	30
	669.5				
ORGANIC CLAY–dark gray spotted black–gray–very soft (A–7/A–8) Wet			ST	<0.25P	48
		–20	ST	<0.25P	41

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ORGANIC CLAY–dark gray spotted black–gray–very soft (A–7/A–8) Wet	664.5				
CLAY–brown & gray– very stiff (A–6)			ST	2.0P	19
			2		
			3		
		–25	4	2.0P	17
	658.5				
CLAY–gray–very stiff (A–6)			2		109
			5		
		–30	7	2.75P	18
			6		108
			8		
	650.5	–35	10	3.1B	19
End Of Boring @ –35.0' Hollow Stem Augers CME–75 Automatic Hammer					
	XX	–40			

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.
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SOIL BORING LOG

PAGE 1 of 1
DATE December 02, 2004
LOGGED BY TOB
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Retaining Wall
TWNSHP Orland Park LOCATION Township 36 N Range 12 E Orland Park, IL
COUNTY Cook DRILLING METHOD 3.5" Hollow Stem Augers HAMMER TYPE CME-75 Automatic

STRUCT. NO. 016-W970
Station XX
BORING NO. R-14
Station 1809672.0, Sta. 1507+84.95
Offset 1114720.5, Offset 6.51' LT.
Ground Surface Elev. 683.6

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 6.0" CRUSHED STONE	682.6				
CLAY–brown & gray– stiff to very stiff (A–6) Fill			4		103
			5		
			7	3.6B	21
			2		96
			2		
		–5	4	1.0B	22
			1		98
			2		
			3	1.0B	23
			2		
			2		
		–10	2		NR
			1		91
	671.6		1		
TOPSOIL–black (A–7)			1	0.3B	30
	670.1				
ORGANIC CLAY–dark brown to black (A–8)		–15	ST	0.25P	81
			1		
			1		
			1	<0.25P	63
			1		
			1		
		–20	1	<0.25P	86

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ORGANIC CLAY–dark brown to black (A–8)			1		
			2		
			3	<0.25P	62
	660.6				
CLAY–brown & gray– stiff to very stiff (A–6)		–25	ST	2.5P	19
Vane Shear @ –27.0' Su (Peak) >1675psf	656.1		VS	>1675 (psf)	–
CLAY–gray–very stiff (A–6)			3		
			4		
		–30	6	2.4B	13
			1		
			6		
		–35	9	3.8B	19
			5		
			6		
End Of Boring @ –40.0' Hollow Stem Augers CME–75 Automatic Hammer	643.6	–40	7	3.5B	27

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.
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SOIL BORING LOG

PAGE 1 of 1
DATE December 3, 2004
LOGGED BY TOB
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Retaining Wall
TWNSHP Orland Park LOCATION Township 36 N Range 12 E Orland Park, IL
COUNTY Cook DRILLING METHOD 3.5" Hollow Stem Augers HAMMER TYPE CME-75 Automatic

STRUCT. NO. 016-W970
Station XX
BORING NO. R-15
Station 1809729.3, Sta. 1508+60.02
Offset 1114769.0, Offset 6.51' LT.
Ground Surface Elev. 682.3

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 6.0" CRUSHED STONE	681.3				
CLAY–brown & gray– stiff to very stiff (A–6) Fill			2		103
			5		
			6	2.7B	21
			2		100
			6		
		–5	6	3.2B	21
			2		
			2		
			3	3.0P	25
			1		98
			2		
		–10	2	1.0B	24
	670.3				
ORGANIC CLAY–dark brown to black (A–8)			ST	1.25P	65
	668.3		1		25
ORGANIC CLAY with fiberous peat –dark brown to black (A–8)		–15	1	0.5B	191
	666.3		1		68
ORGANIC CLAY–dark brown to black (A–8)			1	0.7B	50
	664.3				
ORGANIC CLAY with fiberous peat –dark brown to black (A–8)		–20	ST	0.5P	267

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ORGANIC CLAY–dark brown to black (A–8)			1		
			1		
			1	0.5P	67
			2		
	657.8				
			3		
		–25	3	0.5P	48
CLAY–brown & gray– medium stiff (A–6) Wet					
Vane Shear @ –27.0' Su (Peak) =1675psf			VS	1675 (psf)	27
	654.3				
CLAY–gray– stiff to very stiff (A–6) Wet			5		113
			5		
		–30	6	1.25B	18
			8		109
			8		
		–35	10	2.5B	20
			6		105
End Of Boring @ –40.0' Hollow Stem Augers CME–75 Automatic Hammer	642.3	–40	9	3.5B	21

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-13, R-14 & R-15

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

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