CONTRACT NO. 62712

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 3578	1327B	COOK	108	81
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 18
22 SHEETS

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amberst 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-11
Northing 1810160.1, Sta. 1514+18.34
Easting 1115124.2, Offset 13.74' LT.
Ground Surface Elev. 693.4

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY-gray-stiff to very stiff (A-6)
	4		134	
	9			
-45	16	1.6B	9	
	5		119	
	7			
-50	9	1.8B	16	
	6		126	
	6			
-55	8	2.5B	12	
	8			End Of Boring @ -80.0'
	14			Hollow Stem Augers to -10.0'
				Rotary Drilling to Completion
				CME-75 Automatic Hammer
-60	24	-	15	

619.9
613.4

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY-gray-stiff to very stiff (A-6)
	11			
	11			
-65	11	3.7B	11	
	9		128	
	15			
-70	22	3.7B	12	
	18			
	15			
-75	22	NP	33	Silty LOAM-gray-very dense (A-4)
	15			
	24			
-80	32	NP	21	

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 Amberst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 1 of 2
DATE September 20, 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" Hollow Stem Augers HAMMER TYPE Safety

STRUCT. NO. 016-W970
Station
BORING NO. R-12
Northing 1810219.0, Sta. 1514+95.15
Easting 1115173.6, Offset 14.03' LT.
Ground Surface Elev. 695.5

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 655.5
Upon Completion Dry
After ___ Hrs.

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CRUSHED STONE
	5		106	
	7			CLAY-brown & gray-
	8	3.0B	22	stiff to very stiff (A-6) Fill
	1			
	2			
-5	4	1.25P	17	
	1		102	
	2			
	6	0.9B	24	CLAY-brown & gray-
	2		98	medium stiff to stiff (A-6) Fill, Wet
	3			
-10	4	0.9B	27	
	1		102	
	4			
	4	0.5B	24	
	1		102	
	4			
-15	6	0.5B	25	
	5		108	
	7			
	11	1.9B	21	
	4		99	
	8			
-20	10	1.5P	26	

694.5
689.5

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	2		96	CLAY-brown & gray-
	4			medium stiff to stiff (A-6) Fill, Wet
	7	0.9B	28	
	2		79	
	5			
-25	5	0.4B	42	ORGANIC CLAY-black (A-8)
	2		117	
	4			
	5	2.0P	16	
	3			
	6			
-30	8	2.0P	18	CLAY-gray-very stiff (A-6)
	5		110	
	10			
-35	15	3.5B	20	
	5		102	
	10			
-40	21	2.0P	24	

672.0
669.5

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 Amberst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 2 of 2
DATE September 20, 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" Hollow Stem Augers HAMMER TYPE Safety

STRUCT. NO. 016-W970
Station
BORING NO. R-12
Northing 1810219.0, Sta. 1514+95.15
Easting 1115173.6, Offset 14.03' LT.
Ground Surface Elev. 695.5

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 655.5
Upon Completion Dry
After ___ Hrs.

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY-gray-very stiff (A-6)
	10			
	15			
-45	22	0.5P	19	
	5			CLAY-gray-medium stiff (A-6)
	13			
-50	16	0.5P	14	
	6		123	
	15			
-55	18	1.8B	14	
	21			CLAY-gray-stiff to very stiff (A-6)
	30			
-60	30	2.5P	9	

652.0
642.0

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				CLAY-gray-stiff to very stiff (A-6)
	12			
	12			
-65	13	1.5P	13	
	13			
	20			
-70	23	1.5P	24	End Of Boring @ -70.0'
				Hollow Stem Augers
				D-120 Safety Hammer
-75				
-80				

625.5

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-11 & R-12

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

w:\il 7\structural\northwest wall\final plans\soil borings.dgn
03/01/06 2:36:38 PM