CONTRACT NO. 62712

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 3578	1327B	COOK	108	59
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 31
35 SHEETS

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Arbor Court, Suite 204
Naperville, Illinois 60563
(630) 305-2630

SOIL BORING LOG

PAGE 1 of 2
DATE August 10, 2004
LOGGED BY RJ
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Bridge Foundation
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. E 016-0465/P 016-2847
Station
BORING NO. BR-1 & BR-1A
Northing 1810236.3
Easting 1115233
Ground Surface Elev. 696.2

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 (%)
4" ASPHALT, 6" CRUSHED STONE 695.2			
	6		
	3		
	4	1.5P	25
CLAY-brown & gray-medium stiff to very stiff-(A-6) Fill, Wet			
	3		*98*
	3		
-5	4	1.1B	27
	1		
	2		
	5	2.25P	24
	3		*100*
	2		
-10	2	2.0P	25
	1		*95*
	1		
	2	.9B	28
	1		
	2		
-15	2	1.5P	29
679.7	3		
	3		
	4	1.7B	32
ORGANIC CLAY-black (A-7) Wet			
	1		
	2		
-20	5	1.0P	35

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ORGANIC CLAY-black (A-7) Wet			
	2		
	3		
	6	1.0P	39
	2		
	3		
-25	4	1.8B	29
670.2			
	4		*112*
	6		
	9	3.0B	19
	4		*113*
CLAY-gray-very stiff (A-6)			
	7		
-30	10	3.4B	18
	6		*110*
	8		
-35	11	3.2B	20
	7		*110*
	10		
-40	12	2.5B	20

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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SOIL BORING LOG

PAGE 2 of 2
DATE August 10, 2004
LOGGED BY RJ
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Bridge Foundation
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. E 016-0465/P 016-2847
Station
BORING NO. BR-1 & BR-1A
Northing 1810236.3
Easting 1115233
Ground Surface Elev. 696.2

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 (%)
CLAY-gray-very stiff (A-6)			
652.7	6		
	13		
SANDY LOAM-gray-medium dense (A-6)			
-45	14	NP	13
647.2	7		*128*
	9		
-50	11	3.7B	12
CLAY-gray-very stiff (A-6)			
642.2	7		
	50/0"	NP	20
-55			
End Of Boring @ -54.0'			
Apparent obstruction @ -54.0'			
Casing unable to penetrate @ -54.0'			
Hollow Stem Augerss to -10.0'			
Rotary Drilling to Completion			
D-120 Safety Hammer			
Offset Boring to W and S to BR-1A			
Blind Drilled to 53.5' and			
Encountered Obstruction-Terminated			
-60			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
-65			
-70			
-75			
-80			

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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SOIL BORING LOG

PAGE 1 of 3
DATE August 12, 2004
LOGGED BY AD
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Bridge Foundation
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. E 016-0465/P 016-2847
Station
BORING NO. BR-2
Northing 1810438.0
Easting 1115287.4
Ground Surface Elev. 678.0

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 (%)
TOPSOIL-black (A-7)			
676.5	13		
	8		
	8	4.5P	11
CLAY-brown & gray-very stiff to hard (A-6) Fill			
	10		
	7		
-5	7	3.0P	16
	4		
	2		
	1	2.25P	11
669.5	1		
ORGANIC CLAY-black (A-7) Wet	0		
668.0 -10	1	0.5B	36
CLAY LOAM-brown & gray-stiff (A-6)	1		
	2		
	4	1.5P	19
	1		*111*
	3		
-15	4	1.5P	19
662.0	4		
	8		
CLAY-gray-very stiff to hard (A-6)	10	5.0B	20
	4		*110*
-20	12	5.65B	20

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	3		*127*
	3		
	5	4.0P	12
CLAY-gray-very stiff to hard (A-6)			
	4		*114*
	5		
-25	6	3.25P	18
	6		*114*
	8		
	13	4.6B	18
	4		
	6		
-30	9	3.8B	17
	9		
-35	14	3.0P	12
	5		*118*
	7		
-40	10	3.4B	15

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 (%)

Note: Soil Boring BR-1A is an offset continuation of BR-1, see log.

DESIGNED	-
CHECKED	-
DRAWN	GM
CHECKED	JJI

Bollinger, Lach & Associates, Inc.

SOIL BORING LOGS BR-1 & BR-2

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

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