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SOIL BORING LOG

DATE 3/24/2010

LOGGED BY MD

GSI JOB No. 09177

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

ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10

SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township

COUNTY COOK DRILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-W996 Surface Water Elev. n/a

Station 507+25 to 510+35 Stream Bed Elev. n/a

BORING NO. **RW-10** Groundwater Elevation:

Station 507+85 First Encounter n/a ▼

Offset 11.5' Left Upon Completion n/a ▼

Ground Surface Elev. 873.5 After _____ Hrs. _____ ▼

DEPTH (ft)	BLOW COUNT (S)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (S)	UCS (tsf)	MOIST (%)
0				7.0" ASPHALT, 2.0" GRAVEL, 7.0" CONCRETE	0	4		106
872.1	AS	NP	7		6			
					9	2.2B		22
				CLAY LOAM—dark brown, gray & black—medium stiff to stiff (A-6) Fill, Wet	5			103
	2				6			
	3				9	2.4B		24
	-5	3	1.25P	CLAY—gray—stiff to very stiff (A-6)	3			102
	3				4			
	4				7	1.2B		24
865.0	5	0.9B	27		4			102
	4			CLAYEY TOPSOIL—black	5			
863.5	-10	6	1.9B		6	2.4B		23
	3							
	3			CLAY—dark brown & gray—stiff to very stiff (A-6)	4			122
	4	1.3B	25		5			
	3				8	1.1B		13
	4							
	-15	6	2.3B					
857.5								
	4			CLAY—gray—stiff to very stiff (A-6)	4			105
	5				5			
	10	2.6B	17	Some Fractured Rock from -38.5' to -40.0'	8			
	4			End Of Boring @ -40.0'				
	6			Hollow Stem Augers To -10.0'				
	-20	10	3.5B	Rotary Drilling To Completion				
				10' Of 4.0" Casing Used				
				CME Automatic Hammer				
					8			
					10			9

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

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SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township

COUNTY COOK DRILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-W996 Surface Water Elev. n/a

Station 507+25 to 510+35 Stream Bed Elev. n/a

BORING NO. **RW-11** Groundwater Elevation:

Station 508+60 First Encounter n/a ▼

Offset 11.5' Left Upon Completion n/a ▼

Ground Surface Elev. 875.0 After _____ Hrs. _____ ▼

DEPTH (ft)	BLOW COUNT (S)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (S)	UCS (tsf)	MOIST (%)
0				7.0" ASPHALT, 3.0" GRAVEL, 7.0" CONCRETE	0	4		110
873.6	AS	NP	12		5			
					9	2.4B		20
				CLAY LOAM—brown & gray spotted black—stiff (A-6) Fill, Wet	5			103
	2				6			
	3				8			
	-5	3	1.25B	CLAY—gray—stiff to very stiff (A-6)	10	1.0P		19
	3				3			102
	4				4			
	5	1.5P	27		7	1.8B		23
866.5					3			104
	3			TOPSOIL—black	4			
864.0	-10	7	3.25P		6			
	3				7	2.7B		18
	5			SILTY CLAY—brown & gray—stiff to very stiff (A-6)				
	7				2			103
	3				3			
	-15	3	1.0P		5	1.75B		22
859.0								
	6			CLAY—gray—stiff to very stiff (A-6)				
	12				16	3.2B		18
	4			End Of Boring @ -40.0'				
	8			Hollow Stem Augers To -10.0'				
	-20	12	3.25B	Rotary Drilling To Completion				
				10' Of 4.0" Casing Used				
				CME Automatic Hammer				
					6	2.5B		21

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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