SOIL BORING SB-05 (2 OF 2)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurlaner Court, Suite 400
Naperville, Illinois 60563
(630) 355-3545

SOIL BORING LOG

PAGE 2 of 2
DATE 3/29/2010
LOGGED BY MR
GSI JOB No. 09118

ROUTE FAP 345 (U.S. Route 20) DESCRIPTION US 20 over McLean Boulevard, Elgin, Illinois Contract No. 60H45
SECTION 8R-R LOCATION SEC. 22, TWP. 41N, RNG. 8E, 3rd PM, Elgin Township
COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 045-0077
Station: 98+32.18
BORING NO. SB-05
Station: 99+51 US 20
Offset: 33' Left
Ground Surface Elev. 849.6

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 (%)
SAND & GRAVEL–brown– dense to very dense (A–1)			18		
			21		
		–45	26	NP	9
	802.6				
SANDY LOAM–brown– medium dense (A–2)			9		
			10		
		–50	12	NP	19
	797.6				
SAND & GRAVEL–brown– dense to very dense (A–1)			15		
			22		
		–55	31	NP	9
			26		
			36		
		–60	44	NP	6
SAND & GRAVEL–brown– dense to very dense (A–1)			15		
			20		
		–65	20	NP	10
	782.6				
SAND & GRAVEL–gray–dense (A–1)			16		
			17		
		–70	22	NP	8
	774.6	–75	17		
			20		
			29	NP	6
End Of Boring @ –75.0' Hollow Stem Augers To –10.0' Rotary Drilling To Completion CME Automatic Hammer		–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

SOIL BORING SB-06 (1 OF 2)

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SOIL BORING LOG

PAGE 1 of 2
DATE 4/2/2010
LOGGED BY RJ
GSI JOB No. 09118

ROUTE FAP 345 (U.S. Route 20) DESCRIPTION US 20 over McLean Boulevard, Elgin, Illinois Contract No. 60H45
SECTION 8R-R LOCATION SEC. 22, TWP. 41N, RNG. 8E, 3rd PM, Elgin Township
COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 045-0077
Station: 98+32.18
BORING NO. SB-06
Station: 99+63 US 20
Offset: 48' Right
Ground Surface Elev. 850.2

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 (%)
10.0" ASPHALT	849.3				
CRUSHED ASPHALT & STONE– medium dense			12		
			12		
			10	NP	1
	847.2				
CLAY LOAM–dark brown & black– very stiff (A–6) Fill			3		
			6		
		–5	9	3.5P	19
	844.7				
CLAY LOAM with Stone–dark brown– medium dense to dense (Fill)			3		
			4		
			6	–	14
			15		
			15		
		–10	15	–	12
			8		
			8		
			8		NR
	837.2				
CLAY LOAM–brown & gray– very stiff to hard (A–6) Fill			5		109
			7		
		–15	9	4.25B	19
			5		112
			9		
			11	4.75B	18
			5		107
			11		
		–20	13	2.7B	17
CLAY LOAM–brown & gray– very stiff to hard (A–6) Fill			6		110
			12		
			14	4.2B	20
	826.7				
SAND & GRAVEL–brown– dense to very dense (A–1)			8		
			12		
		–25	20	NP	12
			10		
			14		
			16	NP	12
			27		
			30		
		–30	34	NP	11
			20		
			22		
		–35	24	NP	8
	813.2				
GRAVEL–brown– dense to very dense (A–1)			34		
			34		
		–40	34	NP	11

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STRUCT. NO. 045-0077
Station: 98+32.18
BORING NO. SB-06
Station: 99+63 US 20
Offset: 48' Right
Ground Surface Elev. 850.2

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 (%)
GRAVEL–brown– dense to very dense (A–1)			8		
			27		
		–45	32	NP	8
			12		
			22		
		–50	24	NP	6
			23		
			23		
		–55	23	NP	5
			26		
			28		
		–60	28	NP	7
GRAVEL–brown– dense to very dense (A–1)			15		
			30		
		–65	30	NP	10
			15		
			32		
		–70	32	NP	11
			15		
			34		
	775.2	–75	36	NP	11
End Of Boring @ –75.0' Hollow Stem Augers To –10.0' Rotary Drilling To Completion CME Automatic Hammer		–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
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