Geo Services Inc.
Geotechnical, Environmental & Civil Engineering
805 Ambiguous Court, Suite 200
Naperville, Illinois 60540
(630) 305-3838

SOIL BORING LOG

PAGE 1 of 2
DATE 3/31/2010
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-04
Station: 97+12 US 20
Offset: 49' 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 (%)
8.0" ASPHALT	849.4				
SAND, GRAVEL & STONE- medium (Fill)			4, 6, 6	NP	2
SILTY CLAY-dark gray to black- medium stiff (A-6) Fill, Wet	847.2		2, 2, 3	0.75P	25
CLAY LOAM with Gravel & Stone- brown-loose (Fill)	844.7	-5	2, 3, 5	–	17
CLAY-brown & gray-stiff to hard (A-6) Apparent Fill	842.2	-10	3, 5, 8	4.5+P	16
			5, 6, 8	1.4B	*103* 23
		-15	4, 5, 7	1.9B	*107* 21
			4, 6, 8	1.7B	*105* 22
		-20	5, 7, 9	2.75B	*108* 21
CLAY-stiff to hard (A-6) Apparent Fill	829.7		7, 9, 10	2.75P	25
SILTY CLAY-dark brown- very stiff (A-6) Wet	824.7	-25	3, 6, 6	2.0P	29
Clayey SAND & GRAVEL-brown- loose (A-2)	822.2	-30	2, 2, 3	–	44
SAND & GRAVEL-brown- medium dense to very dense (A-1)		-35	3, 5, 8	NP	8
			4, 5, 7	NP	17
		-40	24, 42, 50/4"	NP	7

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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After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND & GRAVEL-brown- medium dense to very dense (A-1)		-45	28, 34, 43	NP	8
		-50	7, 9, 10	NP	15
SILT-gray-medium dense (A-4)	798.2	-55	6, 9, 13	–	22
SAND & GRAVEL-gray- dense to very dense (A-1)	793.2	-60	13, 17, 22	NP	7
SAND & GRAVEL-gray- dense to very dense (A-1)		-65	21, 29, 36	NP	9
		-70	16, 22, 29	NP	9
GRAVEL-gray-medium dense (A-1)	778.2	-75	10, 12, 16	NP	11
End Of Boring @ -75.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer	775.2	-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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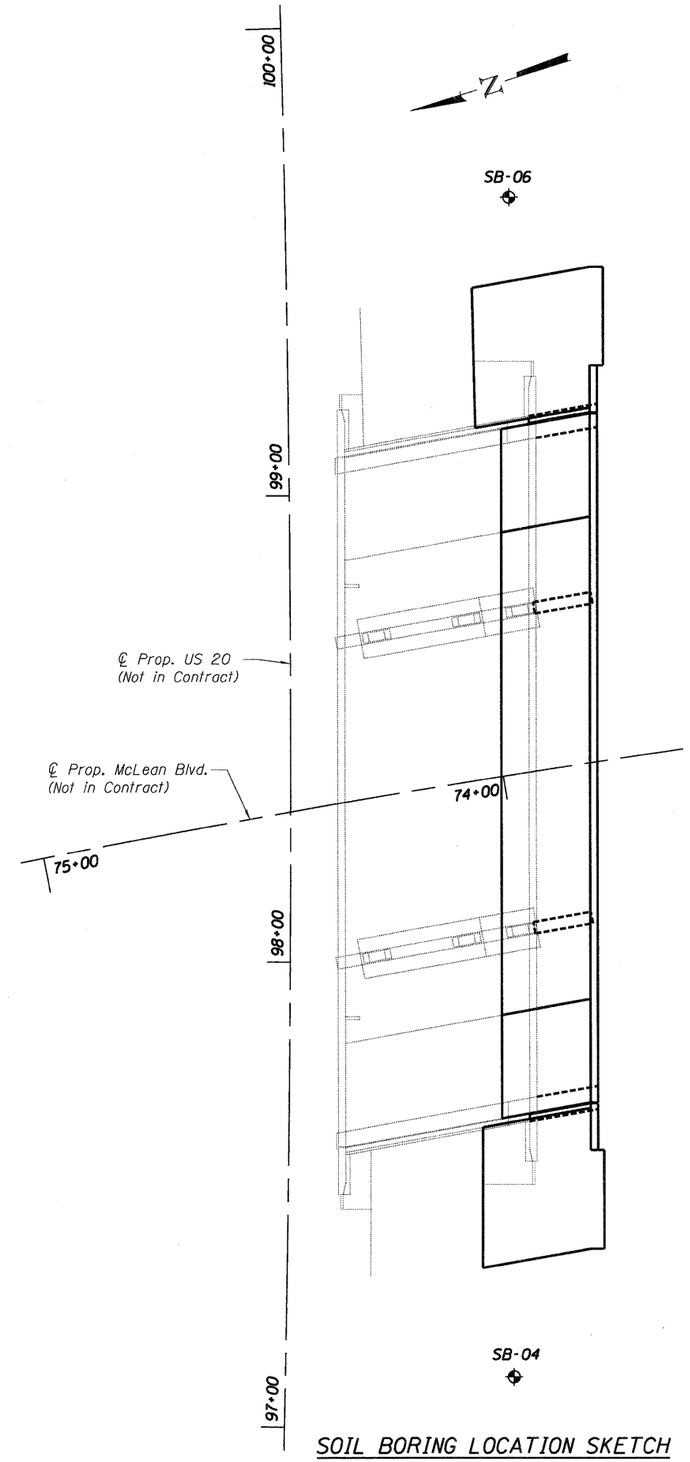

SOIL BORING LOCATION SKETCH

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION US 20 OVER MCLEAN BOULEVARD	SOIL BORING LOGS 1 OF 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - PK	REVISED -			345	8R-HB-2-BY-1	KANE	434 / 269
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - MDB	REVISED -			SN 045-0003		CONTRACT NO. 60K90	
	PLOT DATE = $DATE$	DATE - 05/18/11	REVISED -		SCALE: / SHEET NO. S-28 OF S-29 / STA. 98+32.18	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	

\\045\0003-60K90-001-SOIL BORING.DGN,,\\045\0003-60K90-001-SOIL BORING.DGN,,\\045\SNJN-60K90-001-BORDER.DGN
5/12/2011,15:28:25 HAYWARMZ \\TS-8044\HPV\FAU_ID THRNS 07\2282\21379-001\STRUCT\CAD\60K90\045\0003\SHEET\045\0003 60K90 001-SOIL BORING.S+T.DGN