STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

(Below Boring from Pedestrian Bridge Contract)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurora Court, Suite 204
Naperville, Illinois 60565
(630) 355-2638

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STRUCTURE FOUNDATION BORING LOG

Project: Geotechnical Investigation For The Proposed Metra Deerfield Road Pedestrian Underpass GSI Job No.: 09006
Location: Deerfield Station, Deerfield, Illinois Date: 8/19/2009
County: Cook Bored By: RJ
Client: McDonough & Associates Checked By: AJP

BORING No.: **B-1**
Station: 11+24
Offset: 32.5' Right
Ground Surface Elevation: 680.2

Surface Water Elev.: n/a
Groundwater Elev. WD 676.2
Groundwater Elev. AB 675.7
After Hours:

Description	Elev.	Depth (ft)	Blows /6"	UCS Qu (tsf)	Moist (%)
TOPSOIL with Stone (Fill)	678.7		HA	–	4
SILTY CLAY–trace sand & gravel–brown & gray–very stiff (CL) Fill	677.7		HA	2.0P	25
SILTY CLAY–trace sand & gravel–gray–medium stiff (CL) Wet Sand seams from –4.0' to –4.5'.	▽675.7		HA	0.5P	28
		–5			*105*
			HA	5.0B	22
					98
SILTY CLAY–trace sand & gravel–gray–stiff to hard (CL)			HA	3.9B	24
					106
		–10	HA	3.0B	21
					92
			HA	2.3B	27
					100
	665.2	–15	HA	1.4B	25
End Of Boring @ –15.0' Hand Auger					
		–20			
		–25			

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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STRUCTURE FOUNDATION BORING LOG

Project: Geotechnical Investigation For The Proposed Metra Deerfield Road Pedestrian Underpass GSI Job No.: 09006
Location: Deerfield Station, Deerfield, Illinois Date: 7/31/2009
County: Cook Bored By: MD
Client: McDonough & Associates Checked By: AJP

BORING No.: **B-2**
Station: 10+40
Offset: 30.0' Right
Ground Surface Elevation: 680.5

Surface Water Elev.: n/a
Groundwater Elev. WD n/a
Groundwater Elev. AB n/a
After Hours:

Description	Elev.	Depth (ft)	Blows /6"	UCS Qu (tsf)	Moist (%)
Miscellaneous Sand & Stone			HA	NP	NR
End Of Boring @ –13.0" Hand Auger Refusal Due to Large Stone					
		–5			
		–10			
		–15			
		–20			
		–25			

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

OBA
O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1830 E. BANKS ST., WAUKEGAN HTS., IL 60085
(847)336-1444 • FAX(847) 336-3276

STRUCTURE FOUNDATION BORING LOG

Sh 1 of 1

Project: Pedestrian Overpass for Deerfield Metra Station OBA JOB NO. 02218
Location: Deerfield, Illinois Date June 18, 2002
County: Lake Bored By RH
Client: McDonough Associates, Inc. Checked By DOB

BORING No.: B-1
Station: XX
Offset: XX

Surface Water Elev. n/a
Groundwater Elevation 637.0 WD
Groundwater Elevation Dry AB
After Hours

Description	Elev.	Depth (ft)	Blows Counts	Qu (tsf)	W (%)
Ground Surface Elevation 675.5					
6.0" CONCRETE.					
6.0" SAND & GRAVEL	674.5				
SILTY SANDY CLAY–trace gravel–dark brown spotted black–medium stiff (CL) Fill			1		
			2		
			2	0.5P	22
	672.0				
			3		
			4		
		–5	5	3.75P	18
			3		*104.5*
SILTY CLAY–trace sand and gravel–brown and gray–very stiff (CL)			4		
			6	2.75B	19
			5		*112.1*
			8		
		–10	11	3.2B	15
	662.0				
			3		*115.7*
			5		
		–15	6	1.6B	12
SILTY CLAY–trace sand and gravel–gray–stiff to very stiff (CL)			3		*97.7*
			6		
		–20	8	3.0B	23
			2		*99.1*
			3		
		–25	4	1.7B	23

Description	Elev.	Depth (ft)	Blows Counts	Qu (tsf)	W (%)
			3		*99.2*
			5		
		–30	7	2.1B	23
			4		*108.6*
SILTY CLAY–trace sand and gravel–gray–stiff to very stiff (CL)			6		
		–35	7	1.9B	18
			4		*106.2*
			5		
		–40	8	2.1B	19
			4		*103.7*
			5		
		–45	7	1.5B	21
			4		*105.3*
End of Boring @ –50.0' Hollow Stem Augers CME Safety Hammer	625.5		6		
			8	2.3B	19

N–Standard Penetration is the value of the last two blow counts in each sample zone (ASTM D–1586) NR–No Recovery
Type Failure B–Bulge Failure S–Shear Failure E–Estimated Value P–Penetrometer
Qu–Unconfined Compressive Strength(tsf) W–Water Content, percent dry weight NP–Non–Plastic
Unit dry weight (pcf) noted in italics above wt.
O'BRIEN & ASSOCIATES, INC.

BORING LOGS
STRUCTURE NO. 049-6159

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

SHEET NO.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S-18	1257	08-00083-00-BT	LAKE	51	38
SHEETS S-25	SN 049-6159		CONTRACT NO. 63450		
	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		