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OBA
O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAVIS ST./ARLINGTON HTS., IL 60005
(847)398-1441 * FAX(847) 398-2376

STRUCTURE FOUNDATION
METRIC BORING LOG

Sh 1 of 2

Project Oriole Avenue over John F. Kennedy Expressway
Route FAU 3410 over FAI 90 — Structure No. 016-1101
Section 1515.1F-B — Location Chicago, Illinois
County Cook — Date Febraury 21, 2000

OBA JOB NO. 00140
Rig CME-75
Bored By CC
Checked By DOB

BORING NO. DB-2
Station 01+044.5
Offset 10.0 m Lt.

Surface Water Elev. N/A
Groundwater Elevation -
Groundwater Elevation - After Hours

Ground Surface Elevation 200.4

Description	Elev.	Blow Counts	R (mm)	Qu (kPa)	W (%)
50 mm ASPHALT, 125 mm CONCRETE, 125 mm SAND & GRAVEL	200.1				
COARSE CRUSHED STONE-Possible Crushed Concrete (FILL)	199.65	2 2 1		NP	5
Black & Gray Organic TOPSOIL (A-7)	-1.5 / 198.75	1 2 2		72P	38
CLAY-mottled brown and gray-stiff (A-6) wet	197.85	1 3 4		48P	24
SILTY CLAY-brown and gray-very stiff (A-6)	-3.0 / 196.5	1 1 2		96P	29
CLAY-gray-medium stiff to stiff (A-6) (Very Stiff from -4.05 m to -4.5 m)	-4.5	2 4 5		192P	16
		1			111.3
		4 6		335P	20
		2			117.1
		5 8		232B	18
		1			103.5
		3 3		120B	21
		1			98.0
	-6.0	2 3		112B	24
		1			107.6
		2 3		104B	23
		1			103.0
	-7.5	3 4		88B	23

Description	Elev.	Blow Counts	R (mm)	Qu (kPa)	W (%)
CLAY-gray-medium stiff to stiff (A-6)		1			101.7
		1 3		104B	22
		1			100.6
	-9.0	2 4		136B	23
		2			100.1
		2 4		64B	23
		1			104.5
	-10.5	3 5		120B	22
		1			
		3 4		128B	22
		2			104.0
	-12.0	3 3		104B	21
		1			108.9
		4 4		88B	20
		2			106.4
	-13.5	4 5		104B	21
		2			
		3 5		176B	18
		2			107.7
	-15.0	5 7		144B	21

N-Standard Penetration Test (ASTM D-1586) Type Failure
R-Recovery in millimeters
B-Bulge Failure S-Shear Failure
E-Estimated Value P-Penetrometer
Qu-Unconfined Compressive Strength (kPa) Unit wt. (kN/m³) noted in italics above w%
W-Water Content, percent dry weight
NP-Non-Plastic

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Sh 2 of 2

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OBA JOB NO. 00140
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Station 01+044.5
Offset 10.0 m Lt.

Surface Water Elev. N/A
Groundwater Elevation -
Groundwater Elevation - After Hours

Description	Elev.	Blow Counts	R (mm)	Qu (kPa)	W (%)
CLAY-gray-medium stiff to stiff (A-6)		4		108.8	
	-16.5	6 6		176B	19
	182.85	5			
CLAY LOAM-gray-very stiff (A-6)	-18.0	9 15		224B	9
	181.35	4		117.9	
CLAY-gray-stiff to very stiff (A-6)	-19.5	5 7		240B	15
		4		114.6	
	-21.0	7 9		256B	16
		3		107.7	
	-22.5	4 8		184B	20

Description	Elev.	Blow Counts	R (mm)	Qu (kPa)	W (%)
CLAY-gray-stiff to very stiff (A-6)		2			119.5
	-24.0	5 13		128B	17
	175.95	13			122.3
CLAY LOAM-gray-hard (A-6)	-25.5	14 17		480B	12
END OF BORING at -25.5 m Hollow Stem Augers CME Automatic Hammer	-27.0				
	-28.5				
	-30.0				

N-Standard Penetration Test (ASTM D-1586) Type Failure
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W-Water Content, percent dry weight
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O'BRIEN & ASSOCIATES, INC.

Notes: Dimensions are in SI units.
Elevation 199.930 SI = About 655.93 English

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS STRUCTURE NO. 016-1101
CHECKED - RJL	REVISED -		
DRAWN - JJE	REVISED -		
CHECKED - SEA	REVISED -		SHEET NO. 33 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	76
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		