

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP	SECTION	COUNTY	DATE	SHEET
337	20R-5	LAKE	05/22	425
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
D-91-552-99		Contract No. 60881		

SHEET NO. 12
13 SHEETS

STRUCTURE FOUNDATION BORING LOG

Sh 1 of 1

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

Project: Subsurface Investigation for the Proposed II. Route 22 Reconstruction
Route: F.A.P. Route 337, County Lake
Location: I. Route 83 to U.S. Route 41, Lake County, IL
IDOT Job No. P-91-552-99

Date: 4-22-2002
Bored By: Patrick
Checked By: DOB

BORING NO. PT-1
Station: 100+775
Offset: 15.03m Right

DEPTH (m)	SOIL DESCRIPTION	QU (kPa)	W (%)	SURFACE WATER ELEV. (m)	GROUNDWATER ELEV. (m)	WD (m)	AB (m)	Hours	BLOW COUNTS		R	QU (kPa)	W (%)
									63mm	300mm			
0.0	CLAYEY TOPSOIL-black-very stiff (A-7)								3	9			
0.3		240P	37						3	7	NP	7	
211.0													
1.5	CLAY-brown & gray-medium stiff to stiff (A-7)	144P	30						3	8	NP	15	
209.5		72P	32						3	16	NP	10	
3.0		192B	19						5	7	NP	20	
5.0									5	15.6			
7.0		268B	18						7	33	NP	11	
9.0									9	27			
10.0		192B	17						10	17	NP	15	
13.0		220B	15						13	2	NP	15	
17.0									17	3			
19.0		230B	19						19	7	NP	17	
198.4									13	13	NP	17	
13.7	END OF BORING @ -13.7m Hollow Stem Augers Automatic Hammer												
17.5		115B	19						14				
19.0									19				
5.5									4				
15.3		153B	19						6				
15.0									8				

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Route: F.A.P. Route 337, County Lake
Location: I. Route 83 to U.S. Route 41, Lake County, IL
IDOT Job No. P-91-552-99

Date: 4-26-2002
Bored By: TK
Checked By: DOB

BORING NO. PT-2
Station: 100+775
Offset: 3.35m Left

DEPTH (m)	SOIL DESCRIPTION	QU (kPa)	W (%)	SURFACE WATER ELEV. (m)	GROUNDWATER ELEV. (m)	WD (m)	AB (m)	Hours	BLOW COUNTS		R	QU (kPa)	W (%)
									63mm	300mm			
0.0	203mm ASPHALT, 102mm CRUSHED STONE								3	15			
213.4									4	8			
211.0									4	10	NP	8	
1.5	SILTY CLAY-dark brown-very stiff (A-6) Fill, Wet	240P	21						4	21			
209.5									6	19			
3.0		216P	28						7	15	NP	14	
211.8									4	17.0			
4.5		230B	15						6	20	NP	9	
6.0									6	18			
8.0									4	16.3			
10.0		287B	20						4	24	NP	8	
10.5									5	8	NP	8	
16.5									3	16.5			
19.0		469B	10						5	29	NP	10	
209.5									11	11	NP	10	
4.5									4	16.5			
7.0		230B	18						7	26	NP	12	
12.0									11	9	NP	12	
12.2	END OF BORING @ -12.2m Hollow Stem Augers Automatic Hammer												
16.7									3	16.7			
19.0		211B	19						4				
16.7									4	16.7			
6.0		230B	17						9				
13.5									5				
207.3									6				
17.0									8				
19.0		NP	17						9				
17.0									10				
15.0		NP	19						17				

N-Standard Penetration Test (ASTM D-1586) Type Failure
R-Recovery in Inches
NR-No Recovery
B-Bulge Failure
E-Estimated Value
S-Shear Failure
P-Penetrometer
QU-Unconfined Compressive Strength (kPa) (lbf/ft. (kN/m²)) noted in Italics above %
W-Water Content, percent dry weight
NP-Non-Plastic

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TYLINT INTERNATIONAL

DESIGNED	DJR
CHECKED	MI
DRAWN	DJR
CHECKED	MI
DATE	03-22-2004

BORING LOGS

IL ROUTE 22 OVER
PEDESTRIAN TUNNEL
FAP 337 SECTION 20R-5
LAKE COUNTY
STA. 100+775.000
S.N. 049-T016