

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FAP	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
337	20R-5	LAKE	562	458
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
0-91-552-99		Contract No. 60881		

SHEET NO. 8  
9 SHEETS

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

**STRUCTURE FOUNDATION BORING LOG**

Sh 1 of 1

Project: Subsurface Investigation for the Proposed IL Route 22 Reconstruction  
Route: F.A.P. Route 337, County Lake, Date 3-7-01  
Location: IL Route 83 to U.S. Route 41, Lake County Il., Bored By Patrick  
IDOT Job No. P-91-552-99, Checked By DOB

BORING NO. B-8  
Station 104+502  
Offset 14.5m Right

Soil Description	Depth (m)	Soil Type	Qu (kPa)	W (%)	Surface Water Elev. (m)	Groundwater Depth (m)	WD (m)	Groundwater Depth (m)	WD (m)	WD (m)
Ground Surface Elevation	200.8									
SILTY CLAY to CLAY-dark brown (A-6) Fill	200.5									
CLAY-brown mottled gray-very stiff (A-6)	199.8		263P	16						
Appx Invert elevation	199.69									
SANDY CLAY to CLAY-brown & gray-very stiff (A-6) Apparent Fill	199.2		287P	15						
CLAY-gray-hard (A-6)	197.4									
Possible cobbles and/or boulders from -1.67m to -3.2m			570B	16						
CLAY-gray-stiff (A-6)	196.2		96P	18						
Fine SAND-gray-medium dense (A-3)	194.7									
SILTY LOAM-gray-medium dense (A-4)										

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IDOT Job No. P-91-552-99, Checked By DOB

BORING NO. B-9  
Station 104+508  
Offset 21m Right

Soil Description	Depth (m)	Soil Type	Qu (kPa)	W (%)	Surface Water Elev. (m)	Groundwater Depth (m)	WD (m)	Groundwater Depth (m)	WD (m)	WD (m)
Ground Surface Elevation	201.6									
7.0' ASPHALT, 5.0' CRUSHED STONE & GRAVEL	201.3									
CLAY to CLAY LOAM-dark brown-very stiff (A-6) Fill	201.0		240P	10						
CLAY-dark brown to black-very stiff (A-6) Apparent Fill	199.9									
Appx Invert elevation	199.71									
CLAY-brown-very stiff (A-6)	198.5									
CLAY-gray-stiff to very stiff (A-6)	197.6									
CLAY-gray-hard (A-6)	197.1		396B	16						
SANDY LOAM-gray-medium dense (A-1-b)	196.5									
CLAY-gray-hard (A-6)										
Fine SAND-gray-medium dense to dense (A-3)										

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) in ft. (kN/m<sup>2</sup>) noted in Italics above w%  
W-Water Content, percent dry weight  
NP-Non-Plastic

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**TYLINT INTERNATIONAL**  
O'BRIEN & ASSOCIATES, INC.

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

**BORING LOGS**

IL ROUTE 22 OVER  
INDIAN CREEK TRIBUTARY  
FAP 337 SECTION 20R-5  
LAKE COUNTY  
STA. 104+504.000  
S.N. 049-C002