

PAGE 1 of 2
DATE August 30, 2002
LOGGED BY RH
OBA JOB No. 02235

OBA
O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAVIS ST./ARLINGTON HTS., IL 60005
(847)308-1441 • FAX(847) 308-2378

SOIL BORING LOG

ROUTE FAU Route 1541 DESCRIPTION Proposed Bridge Improvements IDOT Project No. D-91-122-97
SECTION 1818-4B LOCATION 76th St. over FAI 94 Chicago, Illinois (Sections 27 & 28-T38N-R14E)
COUNTY Cook DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 016-2850
Station 73+49.33
BORING NO. **SB-76-4**
Station 72+46.72
Offset 41.2' Right
Ground Surface Elev. 571.5 (-8.0 CCD)

| DEPTH (ft) | BLOW COUNT (blows/6") | UCS (tsf) | MOISTURE (%) | DEPTH (ft) | BLOW COUNT (blows/6") | UCS (tsf) | MOISTURE (%) |
|------------|-----------------------|-----------|--------------|------------|-----------------------|-----------|--------------|
| 1 | | | | 8 | 109 | | |
| 1 | | | | 13 | | | |
| 1 | 2.0P | 16 | | 14 | 3.9B | 13 | |
| 1 | | | | 10 | | | 116 |
| 1 | | | | 19 | | | |
| 5 | 1 | 0.5P | 20 | 25 | 24 | 5.3S | 11 |
| 1 | | | | 11 | | | |
| 2 | | | | 19 | | | |
| 2 | 0.5P | 19 | | 31 | | | 11 |
| 6 | | | 111 | 50/152 | | | 113 |
| 8 | | | | 30 | 9.9S | 12 | |
| 10 | | | 111 | 10 | | | |
| 13 | 8.8S | 12 | | 24 | | | |
| 13 | | | | 26 | NP | 14 | |
| 8 | | | 111 | 16 | | | |
| 13 | | | | 50/152 | | | |
| 15 | 14 | 8.1S | 13 | 35 | NP | 9 | |
| 6 | | | 118 | 14 | | | |
| 10 | | | | 50/152 | | | |
| 11 | 7.5B | 10 | | 19 | | | |
| 4 | | | | 48 | | | |
| 8 | | | | 50 | NP | 9 | |
| 7 | NP | 14 | | 40 | | | |

TOPSOIL (Fill) SILTY LOAM—gray—medium dense (A-4)
CLAY—brown & gray—very stiff (A-6) CLAY—gray—very stiff to hard (A-6)
CLAY—gray—medium stiff (A-6)
CLAY—gray—hard (A-6)
SILT—gray—very dense (A-4)
SILTY LOAM—gray—medium dense (A-4)

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 T208). The Unit Dry Weight (pcf) is noted in Italics above moist (%). NR—No Recovery.

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BORING NO. **SB-76-4**
Station 72+46.72
Offset 41.2' Right
Ground Surface Elev. 571.5 (-8.0 CCD)

| DEPTH (ft) | BLOW COUNT (blows/6") | UCS (tsf) | MOISTURE (%) | DEPTH (ft) | BLOW COUNT (blows/6") | UCS (tsf) | MOISTURE (%) |
|------------|-----------------------|-----------|--------------|------------|-----------------------|-----------|--------------|
| 21 | | | | 41 | | | |
| 41 | | | | 48 | NP | 14 | |
| 45 | | | | 65 | | | |
| 50 | | | | 70 | | | |
| 55 | | | | 75 | | | |
| 60 | | | | 80 | | | |

SILTY CLAY LOAM to SILTY LOAM—gray—very dense (A-4)
End of Boring @ -42.5'
Hollow Stem Augers
CME Automatic Hammer

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 T208). The Unit Dry Weight (pcf) is noted in Italics above moist (%). NR—No Recovery.

FILE: L:\16592.02\Cad\Sheets\Roadway_Structures\Bridges\6592-2850-SB01.dgn



| REVISIONS | |
|-----------|------|
| NAME | DATE |
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DWG. S-38 of 42

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING LOGS - SB4
76TH STREET OVER FAI-94
FAP ROUTE 1541 SECTION 1818 R-9
COOK COUNTY
STATION 73+49.33
STRUCTURE NUMBER 016-2850

SCALE: NONE DESIGNED BY: OBA DRAWN BY: TL
DATE: March 25, 2005 CHECKED BY: TB CHECKED BY: TB