Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

# SOIL BORING LOG

PAGE 1 of 3
DATE 2/10/2013
LOGGED BY DR
GSI JOB No. 09174

ROUTE FAP 353 (US 30) DESCRIPTION US Route 30 @ EJ&E/CN Railroad, IDOT Job No. D-91-046-12
SECTION 11-Y-A LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE Diedrich Automatic
STRUCT. NO. --
Station --
BORING NO. BS-01
Station 276+82
Offset 39.5' Left
Ground Surface Elev. 630.9

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry To -10.0'
Upon Completion n/a
After ____ Hrs. ____

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) | |
|---|---|---|---|---|
| 630.4 | | | | 5.0" ASPHALT, 10.0" CRUSHED STONE |
| | 3 | | | |
| | 5 | 2.75P | 15 | SANDY CLAY–dark brown & gray–very stiff (A–6) Fill |
| 627.9 | 6 | | | |
| | 3 | | | SILTY CLAY–brown & gray–very stiff (A–6) |
| | 4 | | 88 | |
| -5 | 5 | 2.3B | 24 | |
| 625.4 | | | | |
| | 2 | | | SANDY LOAM to LOAM–brown & gray–loose (A–2/A–4) |
| | 2 | | | |
| | 3 | NP | 20 | |
| 622.9 | | | | |
| | 3 | | | SANDY LOAM–gray–loose to medium dense (A–2) |
| | 3 | | | |
| -10 | 3 | NP | 20 | |
| | 3 | | | |
| | 4 | | | |
| | 6 | NP | 23 | |
| 617.9 | | | | |
| | 2 | | 106 | SILTY LOAM–gray–loose to medium dense (A–4) |
| | 2 | | | |
| -15 | 3 | NP | 22 | |
| | 3 | | | |
| | 3 | | | |
| | 5 | NP | 22 | |
| | 3 | | | |
| | 4 | | | |
| -20 | 4 | NP | 23 | |

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) | |
|---|---|---|---|---|
| | 2 | | | SILTY LOAM–gray–loose to medium dense (A–4) |
| | 2 | | | |
| | 3 | | | |
| | 5 | NP | 25 | |
| 602.9 | | | | |
| | 2 | | 103 | SILTY CLAY LOAM–gray–loose (A–4) |
| | 2 | | | |
| -30 | 3 | 0.5B | 24 | |
| 598.9 | | | | |
| | 2 | | | SILTY LOAM–gray–very loose (A–4) |
| | 2 | | | |
| -35 | 2 | NP | 22 | |
| 593.9 | | | | |
| | 6 | | | SAND–gray–medium dense (A–3) |
| | 6 | | | |
| -40 | 5 | NP | 24 | |

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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BORING NO. BS-01
Station 276+82
Offset 39.5' Left
Ground Surface Elev. 630.9

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry To -10.0'
Upon Completion n/a
After ____ Hrs. ____

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) | |
|---|---|---|---|---|
| | | | | SAND–gray–medium dense (A–3) |
| 568.9 | | | | |
| | 4 | | | SILTY LOAM–gray–medium dense (A–4) |
| | 6 | | | |
| -45 | 9 | NP | 25 | |
| | | | | SAND–gray–medium dense (A–3) |
| | 6 | | | |
| | 7 | | | |
| -50 | 7 | NP | 23 | |
| | 8 | | | |
| | 8 | | | |
| -55 | 8 | NP | 22 | |
| | 10 | | | |
| | 12 | | | |
| -60 | 10 | NP | 24 | |

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) | |
|---|---|---|---|---|
| | 11 | | | SILTY LOAM–gray–medium dense (A–4) |
| | 14 | | | |
| -65 | 14 | NP | 22 | |
| 563.9 | | | | |
| | 28 | | | SAND & GRAVEL–gray–medium dense (A–1) |
| | 15 | | | |
| -70 | 12 | NP | 10 | |
| 558.9 | | | | |
| | 15 | | | SILTY LOAM–gray–medium dense to dense (A–4) |
| | 24 | | | |
| -75 | 30 | NP | 19 | |
| | 13 | | | |
| | 18 | | | |
| -80 | 18 | NP | 20 | |

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Groundwater Elevation:
First Encounter Dry To -10.0'
Upon Completion n/a
After ____ Hrs. ____

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) | |
|---|---|---|---|---|
| | 9 | | | SILTY LOAM–gray–medium dense to dense (A–4) |
| | 9 | | | |
| -85 | 11 | NP | 23 | |
| | 9 | | | |
| | 12 | | | |
| -90 | 16 | NP | 16 | |
| | 9 | | | |
| | 11 | | | |
| -95 | 14 | NP | 22 | |
| 533.9 | | | | |
| | 6 | | 102 | CLAY–gray–stiff (A–6) |
| | 9 | | | |
| -100 | 12 | 1.9B | 24 | |

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) | |
|---|---|---|---|---|
| | 7 | | 111 | CLAY–gray–stiff (A–6) |
| | 9 | | | |
| -105 | 11 | 1.8B | 19 | |
| 523.9 | | | | |
| | 50/1" | | | GRAVEL–gray–very dense (A–1) |
| -110 | | NP | 5 | |
| 518.9 | | | | |
| | 50/4" | | | SANDY CLAY LOAM with Fractured Rock–gray–very dense (A–2) |
| -115 | | NP | 14 | |
| 514.4 | | | | |
| | | | | Drillers Observation: Possible Bedrock |
| | | | | End Of Boring @ -118.5' |
| 512.4 | | | | Hollow Stem Augers To -10.0' |
| | | | | Rotary Drilling To Completion |
| | | | | 10.0' Of 4.0"ø Casing Used |
| | | | | CME Automatic Hammer |
| -120 | | | | |

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V3 Companies of Illinois Ltd.
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

| | | |
|---|---|---|
| USER NAME = | DESIGNED - EVS | REVISED |
| | CHECKED - WJV | REVISED |
| PLOT SCALE = | DRAWN - EVS | REVISED |
| PLOT DATE = | CHECKED - WJV | REVISED |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS**
**STRUCTURE NO. 016-1279**
SHEET NO. 18 OF 35 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 353 | 11-Y-A | COOK | 354 | 238 |
| | | CONTRACT NO. 60R19 | | |
| | ILLINOIS | FED. AID PROJECT | | |