| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 74 | (72-7)R-3 | PEORIA | 1360 | 1243 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |

CONTRACT NO. 68200

## *LEGEND - IDOT TEST BORING LOGS*

*Silty Clay Loam* — *Textural classification of soil in accordance with IDOT Triangular Chart.*

*BLOWS/150mm* — *Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance with AASHTO T 206 standard specification.*

*$Q_u$, kPa* — *Unconfined compression strength of soil in kilopascals determined in accordance with AASHTO T 208 standard specification.*

*Moist. %* — *Natural moisture content of soil and bedrock in percent determined in accordance with AASHTO T 265 standard specification and AASHTO T 265/ASTM D 2216 for bedrock.*

Illinois Department of Transportation
Division of Highways
IDOT

### SOIL BORING LOG

Page 1 of 1

Date 9/18/03

ROUTE FAI-74 DESCRIPTION HIGH MAST LIGHT TOWER LOGGED BY DLR, JR

SECTION 72-6,7,8,9-1,90-11,90-12,13,14 LOCATION , SEC. , TWP. , RNG.

COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.
Station

BORING NO. HMSB-121
Station 1434416
Offset 297.48m LT EB BL
Ground Surface Elev. 194.23 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter 191.8 m
Upon Completion 188.0 m
After 24 Hrs. 191.7 m

| Description | Elev. (m) | DEPTH (m) | BLOWS (/150 mm) | Qu (kPa) | MOIST (%) |
|---|---|---|---|---|---|
| NO SAMPLE TAKEN | 193.93 | | | | |
| Brown & Gray Mottled SILTY CLAY LOAM | | | 2 | | |
| | | | 3 | 144 | 25.7 |
| | | | 5 | P | |
| | | | 1 | | |
| | | | 1 | 59 | 24.9 |
| | | -1.5 | 2 | B | |
| Brown COARSE SAND & GRAVEL | 192.41 | | 1 | | |
| | | | 2 | | 14.0 |
| | | | 5 | | |
| | 191.49 | | 2 | | 18.7 |
| Gray CLAY LOAM TILL W/trace of gravel @ 25' | | | 3 | 335 | 15.4 |
| | | -3.0 | 5 | B | |
| | | | 2 | | |
| | | | 6 | 355 | 13.6 |
| | | | 10 | B | |
| | | | 2 | | |
| | | | 6 | 355 | 12.6 |
| | | -4.5 | 10 | B | |
| | | | 2 | | |
| | | | 6 | 316 | 13.1 |
| | | | 9 | B | |
| | | | 3 | | |
| | | -6.0 | 6 | | 13.2 |
| Gray CLAY LOAM TILL W/trace of gravel @ 25' (continued) | | | 8 | | |
| | | | 3 | | |
| | | | 5 | 398 | 12.8 |
| | | | 8 | B | |
| | | | 2 | | |
| | | | 5 | 217 | 13.0 |
| | | -7.5 | 8 | B | |
| | 186.61 | | | | |
| **after24 hrs. hole collapsed @ 2.74m | | | | | |
| End of Boring | | | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
IDOT

### SOIL BORING LOG

Page 1 of 1

Date 9/18/03

ROUTE FAI-74 DESCRIPTION HIGH MAST LIGHT TOWER LOGGED BY DLR, JR

SECTION 72-6,7,8,9-1,90-11,90-12,13,14 LOCATION , SEC. , TWP. , RNG.

COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.
Station

BORING NO. HMSB-122
Station 404276
Offset 27.00m RT OF Wor Dr. BL
Ground Surface Elev. 193.00 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter 189.1 m
Upon Completion 189.3 m
After 24 Hrs. 189.4 m

| Description | Elev. (m) | DEPTH (m) | BLOWS (/150 mm) | Qu (kPa) | MOIST (%) |
|---|---|---|---|---|---|
| NO SAMPLE TAKEN | 192.39 | | | | |
| Lt. Gray & Lt. Brown SILTY LOAM | | | 2 | | |
| | | | 4 | 144 | 15.5 |
| | | | 6 | P | |
| Lt. Gray & Lt. Brown SILTY CLAY | 192.08 | | | | |
| | | -1.5 | 2 | | |
| | | | 2 | 103 | 26.8 |
| | | | 3 | B | |
| Lt. Gray & Lt. Brown SILTY CLAY LOAM | 190.87 | | 1 | | |
| | | | 1 | 67 | 27.5 |
| | | | 1 | B | |
| | | -3.0 | 1 | | |
| | | | 1 | 106 | 23.7 |
| | | | 3 | B | |
| | | | 1 | 119 | 23.0 |
| | 189.11 | | 5 | B | 15.0 |
| Brown Coarse SAND & GRAVEL | | | 6 | | |
| | | -4.5 | 4 | | |
| | | | 6 | | 20.7 |
| | | | 5 | | |
| | | | 1 | | 16.4 |
| | 187.59 | | 3 | 237 | 15.9 |
| Gray CLAY LOAM TILL | | | 3 | B | |
| | | -6.0 | | | |
| Gray CLAY LOAM TILL (continued) | | | 2 | | |
| | | | 4 | 197 | 15.2 |
| | | | 6 | B | |
| | | | 3 | | |
| | | | 4 | 217 | 13.7 |
| | | | 8 | B | |
| | | -7.5 | 3 | | |
| | | | 5 | 237 | 13.5 |
| | | | 7 | B | |
| | 185.07 | | | | |
| ** hole collapsed upon completion @ 3.8m | | | | | |
| End of Boring | | | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
IDOT

### SOIL BORING LOG

Page 1 of 1

Date 9/19/03

ROUTE FAI-74 DESCRIPTION HIGH MAST LIGHT TOWER LOGGED BY JES

SECTION 72-6,7,8,9-1,90-11,90-12,13,14 LOCATION , SEC. , TWP. , RNG.

COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.
Station

BORING NO. HMSB-123
Station 1434471
Offset 214.50m LT EB BL
Ground Surface Elev. 194.23 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter 190.6 m
Upon Completion 190.7 m
After 24 Hrs. 191.1 m

| Description | Elev. (m) | DEPTH (m) | BLOWS (/150 mm) | Qu (kPa) | MOIST (%) |
|---|---|---|---|---|---|
| NO SAMPLE | 193.78 | | | | |
| Brown CLAY LOAM | | | 3 | | |
| | | | 10 | 240 | 13.2 |
| | | | 13 | P | |
| Gray SILTY LOAM | 193.01 | | 2 | | |
| | | -1.5 | 4 | 96 | 12.8 |
| | | | 6 | P | |
| Brown & Gray CLAY LOAM | 192.25 | | 2 | | |
| | | | 3 | 237 | 25.3 |
| | | | 4 | B | |
| | | | 1 | | |
| | | -3.0 | 1 | 75 | 35.8 |
| | | | 2 | B | |
| Brown Coarse SAND W/gravel | 190.73 | | H | | |
| | | | 1 | | 21.5 |
| | | | 1 | | |
| | | | 2 | | 15.3 |
| | | -4.5 | 2 | 237 | 14.4 |
| | | | 3 | B | |
| Gray CLAY LOAM TILL | 189.20 | | 2 | | |
| | | | 4 | 257 | 15.3 |
| | | | 6 | B | |
| | | -6.0 | 1 | | |
| Gray CLAY LOAM TILL (continued) | | | 4 | 217 | 15.2 |
| | | | 5 | B | |
| | | | 2 | | |
| | | | 5 | 257 | 13.9 |
| | | | 7 | B | |
| | | | 2 | | |
| | | -7.5 | 5 | 197 | 14.2 |
| | | | 7 | B | |
| | 186.46 | | | | |
| ** hole collapsed upon completion @ 3.8m | | | | | |
| End of Boring | | | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

LIGHTING SHEET 59 OF 64

| REVISIONS | |
|---|---|
| NAME | DATE |
| | |
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| | |
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| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT TOWER FOUNDATION
SOIL BORINGS

DATE: 11/12/04

DRAWN BY CDF
CHECKED BY WJZ

alfred benesch & company
CONSULTING ENGINEERS
205 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601

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