STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| FAP 770 IL 128 | (115BR) B-1 | SHELBY | 39 | 35 |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT- | |

SHEET NO. 18
19 SHEETS

Contract # 74233

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

## SOIL BORING LOG

Page 1 of 4
Date 5/14/07

ROUTE FAP 770 (IL 128) DESCRIPTION Robinson Creek LOGGED BY E. Sandebafer
SECTION (115BR)B-1 LOCATION NE 1/4 Sec 1, T12N, R3E; NW 1/4 Sec 6, T12N, R4E, SEC., TWP., RNG., 3 PM
COUNTY Shelby DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 087-0017
Station 408+75.21
BORING NO. 2
Station 409+14
Offset 9.00ft Lt
Ground Surface Elev. 653.35 ft

Surface Water Elev. 644.87 ft
Stream Bed Elev. 642.61 ft
Groundwater Elev.:
First Encounter 608.9 ft
Upon Completion Washed ft
After 384 Hrs. 648.6 ft

| Description | Elev. | DEPTH (ft) | BLOWS (6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| 2.5" asphalt on 8" concrete pavement. | 653.45 | | | | |
| Medium, damp, dark gray, CLAY. | 651.96 | 2 | | | |
| Medium, damp, dark gray, SILTY CLAY. | | 3 | 0.7 | 25 | |
| | | 5 | B | | |
| | | -5 | 1 | | |
| | | | 2 | 0.7 | 26 |
| | | | 4 | B | |
| | 646.95 | | 1 | | |
| Medium, damp, brown mottled red, CLAY. | | 3 | 0.8 | 23 | |
| | | | 4 | B | |
| | 643.85 | | | | |
| Very soft, very damp, brown, SILTY LOAM. Sample swelled. | | -10 | 1 | | |
| | | | 1 | 0.1 | 25 |
| | | | 2 | B | |
| | | | 1 | | |
| | 640.55 | | | | |
| Very stiff, damp, gray, CLAY LOAM TILL. | | | 7 | 4.3 | 13 |
| | | | 11 | B | |
| | | -15 | 6 | | |
| | | | 10 | 3.8 | 12 |
| | | | 12 | B | |
| | | | 4 | | |
| | | | 6 | 3.1 | 12 |
| | | | 9 | B | |
| | | -20 | 7 | | |

| Description | Elev. | BLOWS (6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|
| Stiff, very moist, gray, SANDY LOAM. | 633.15 | 13 | 1.8 | 14 |
| | | 14 | S | |
| | 631.36 | | | |
| Very stiff, damp, gray, CLAY LOAM TILL. | | 4 | | |
| | 630.35 | 7 | 2.4 | 11 |
| Very soft, very damp, gray, SANDY LOAM. | 629.05 | 10 | B | |
| Stiff, damp, gray, CLAY LOAM TILL. | | | | |
| | | -35 1 | | |
| | | 5 | 2.2 | 12 |
| | | 8 | B | |
| | | 2 | | |
| | | 5 | 1.6 | 14 |
| | | 7 | B | |
| | | -30 2 | | |
| | | 4 | 1.2 | 14 |
| | | 5 | B | |
| | | 1 | | |
| | | 3 | 0.9 | 15 |
| | | 5 | B | |
| | | -40 1 | | |

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
Illinois Department of Transportation

## SOIL BORING LOG

Page 2 of 4
Date 5/14/07

ROUTE FAP 770 (IL 128) DESCRIPTION Robinson Creek LOGGED BY E. Sandebafer
SECTION (115BR)B-1 LOCATION NE 1/4 Sec 1, T12N, R3E; NW 1/4 Sec 6, T12N, R4E, SEC., TWP., RNG., 3 PM
COUNTY Shelby DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 087-0017
Station 408+75.21
BORING NO. 2
Station 409+14
Offset 9.00ft Lt
Ground Surface Elev. 653.35 ft

Surface Water Elev. 644.87 ft
Stream Bed Elev. 642.61 ft
Groundwater Elev.:
First Encounter 608.9 ft
Upon Completion Washed ft
After 384 Hrs. 648.6 ft

| Description | Elev. | DEPTH (ft) | BLOWS (6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Medium, damp, gray, LOAM TILL. (continued) | | | 3 | 0.8 | 15 |
| | | | 5 | B | |
| | 608.85 | | | | |
| Medium, wet, gray, fine grained, SAND. 5% passing #200 sieve. | | -40 | 2 | | |
| | | | 6 | | 23 |
| | | | 11 | | |
| | | -45 | 7 | | |
| 11% passing #200 sieve. | | | 9 | | 15 |
| | | | 12 | | |
| | | -50 | | | |
| | | -55 | | | |
| | 593.55 | -60 | 7 | | |

| Description | Elev. | BLOWS (6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|
| No recovery this trip, estimated SAND. | | 9 | | |
| | | 12 | | |
| | 583.85 | | | |
| Stiff, damp, gray, CLAY LOAM TILL. | | -70 4 | | |
| | | 5 | 1.1 | 13 |
| | | 7 | B | |
| | | -75 | | |
| | | -80 5 | | |

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## SOIL BORING LOG

Page 3 of 4
Date 5/14/07

ROUTE FAP 770 (IL 128) DESCRIPTION Robinson Creek LOGGED BY E. Sandebafer
SECTION (115BR)B-1 LOCATION NE 1/4 Sec 1, T12N, R3E; NW 1/4 Sec 6, T12N, R4E, SEC., TWP., RNG., 3 PM
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BORING NO. 2
Station 409+14
Offset 9.00ft Lt
Ground Surface Elev. 653.35 ft

Surface Water Elev. 644.87 ft
Stream Bed Elev. 642.61 ft
Groundwater Elev.:
First Encounter 608.9 ft
Upon Completion Washed ft
After 384 Hrs. 648.6 ft

| Description | Elev. | DEPTH (ft) | BLOWS (6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Stiff, damp, gray, CLAY LOAM TILL. (continued) | | | 5 | 1.3 | 14 |
| | | | 9 | B | |
| | | -80 | | | |
| | | -85 | | | |
| | | | 4 | | |
| | | -90 | | | |
| | | | 5 | 1.0 | 15 |
| | | | 8 | B | |
| | | -95 | | | |
| | | -100 | 10 | | |

| Description | Elev. | BLOWS (6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|
| Gray, SANDY LOAM. | 633.05 | 15 | 0.9 | |
| | | 27 | B | |
| | | -205 | | |
| | 541.85 | | | |
| Medium, wet, gray, SAND w/ Gravel. 5% passing #200 sieve. | | -110 | 12 | |
| | | | 16 | 15 |
| | | | 13 | |
| | | -115 | | |
| | | -120 | | |
| | 533.35 | -120 | 0 | |

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ROUTE FAP 770 (IL 128) DESCRIPTION Robinson Creek LOGGED BY E. Sandebafer
SECTION (115BR)B-1 LOCATION NE 1/4 Sec 1, T12N, R3E; NW 1/4 Sec 6, T12N, R4E, SEC., TWP., RNG., 3 PM
COUNTY Shelby DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 087-0017
Station 408+75.21
BORING NO. 2
Station 409+14
Offset 9.00ft Lt
Ground Surface Elev. 653.35 ft

Surface Water Elev. 644.87 ft
Stream Bed Elev. 642.61 ft
Groundwater Elev.:
First Encounter 608.9 ft
Upon Completion Washed ft
After 384 Hrs. 648.6 ft

| Description | Elev. | DEPTH (ft) | BLOWS (6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Loose, wet, gray, SAND w/ Gravel. 1% passing #200 sieve. | | | 0 | | 21 |
| | | | 5 | | |
| | | -125 | | | |
| | | -130 | | | |
| | 623.55 | | | | |
| Dense, wet, gray, fine grained, SAND. 3% passing #200 sieve. | | -135 | 6 | | |
| | | | 14 | | 22 |
| | | | 30 | | |
| | | -140 | | | |
| | | -145 | | | |
| | 613.35 | -145 | 16 | | |

| Description | Elev. | BLOWS (6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|
| Surface Water Elev. 644.87 ft; Stream Bed Elev. 642.61 ft; Groundwater Elev.: First Encounter 608.9 ft; Upon Completion Washed ft; After 384 Hrs. 648.6 ft | | | | |
| Dense, wet, gray, fine grained, SAND. 4% passing #200 sieve. | | 23 | | 14 |
| | | 23 | | |
| | | -145 22 | | |
| | | 25 | | 14 |
| | 607.35 | 17 | | |
| Extent of exploration. Exhausted supply of available augers. | | | | |
| Benchmark: Center of existing bridge Station 408+75.21 = 653.55' elevation. Provided by Program Development. | | | | |
| | | -150 | | |
| | | -155 | | |
| | | -160 | | |

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BBS, from 137 (Rev. 8-99)

MAURER & STUTZ, INC.
ENGINEERS SURVEYORS

| | |
|---|---|
| DESIGNED | BAS |
| CHECKED | KEF |
| DRAWN | SEM |
| CHECKED | RJA / KEF |

SOIL BORINGS
IL ROUTE 128 OVER
ROBINSON CREEK TRIBUTARY
F.A.P. RTE. 770 - SECTION (115BR)B-1
SHELBY COUNTY
STATION 408+75.45
STRUCTURE NO. 087-0031