# STATE OF ILLINOIS
# DEPARTMENT OF TRANSPORTATION

ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

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Date 5/27/09

ROUTE IL 164 DESCRIPTION Bridge Over Smith Creek

SECT. (116-C)BR-1 STRUCT. NO. 036-0070 DRILLED BY B. Williamson

COUNTY Henderson LOCATION Rozetta Township S. 19 , TWP. 11N , RNG. 4W

Boring No. B-3 E. Abutment
Station 151+48
Offset 14.00ft LT
Surface Elev. 576.50 ft

Surface Water Elev.
Groundwater Elev.:
when drilling 565.5
at Completion 566.5
after ____ Hrs. ____

| Depth | Blows | Qu tsf | W % | Depth | Blows | Qu tsf | W % |
|---|---|---|---|---|---|---|---|
| Aggregate Shoulder 575.70 | | | | Very stiff gray SILTY LOAM, moist | | | |
| Stiff to medium stiff brown SILTY LOAM, moist | 2<br>3<br>2 | B 1.14 | 14.7 | | 4<br>5<br>8 | B 2.30 | 22.1 |
| | | | | 548.50 Medium dense gray SANDY LOAM, moist | | | |
| | 3<br>1<br>2 | B 0.60 | 17.5 | | 4<br>10<br>8 | | 20.2 |
| -5 | | | | -30 | | | |
| 570.50 Soft dark brown SILTY LOAM, very moist | 2<br>2<br>3 | P 0.5 | 32.6 | 544.50 Medium dense gray SILT, very moist | | | |
| | 1<br>2<br>1 | P 0.5 | 43.7 | | 3<br>6<br>8 | | 34.1 |
| -10 | | | | -35 | | | |
| 565.50 Medium dense to loose brown fine to coarse SAND and small GRAVEL, saturated | 4<br>7<br>10 | | | 539.50 Stiff gray SILTY LOAM, moist | | | |
| | 1<br>4<br>5 | | | | 2<br>3<br>4 | B 1.80 | 17.1 |
| -15 | | | | -40 | | | |
| 560.50 Stiff to very stiff gray SILTY LOAM, moist | 2<br>7<br>4 | P 1.5 | 13.8 | | | | |
| | 2<br>4<br>5 | B 2.13 | 21.8 | | 2<br>4<br>5 | B 1.83 | 20.3 |
| -20 | | | | -45 | | | |
| | 2<br>3<br>6 | P 1.5 | 24.4 | 530.50 Loose gray fine SAND, saturated | | | |
| | 2<br>4<br>6 | B 1.74 | 26.6 | 527.50 Very stiff gray SILTY LOAM, moist | 3<br>6<br>5 | B 2.00 | 19.5 |
| -25 | | | | -50 | | | |

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations. Depths. Offset. and Elevations are in Feet

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SECTION (116-C)BR-1
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ROUTE IL 164
SECTION (116-C)BR-1
COUNTY Henderson

Boring No. B-3 E. Abutment
Station 151+48
Offset 14.00ft LT
Elevation 526.50 ft

Elevation 501.50 ft

| Depth | Blows | Qu tsf | W % | Depth | Blows | Qu tsf | W % |
|---|---|---|---|---|---|---|---|
| Stiff to very stiff gray SILTY LOAM, moist | | | | Dense gray fine SAND, saturated | | | |
| | 3<br>4<br>6 | B 1.98 | 21.6 | | 10<br>16<br>20 | | |
| -55 | | | | -80 | | | |
| | 4<br>4<br>6 | B 2.28 | 25.1 | 491.50 | 7<br>15<br>25 | | |
| -60 | | | | -85 | | | |
| | | | | End of Boring at 85.0' | | | |
| | 4<br>10<br>11 | B 2.87 | 22.4 | | | | |
| -65 | | | | -90 | | | |
| 508.50 Medium dense gray fine to coarse SAND, saturated | | | | | | | |
| | 8<br>13<br>16 | | | | | | |
| -70 | | | | -95 | | | |
| 504.50 Dense gray fine SAND, saturated | | | | | | | |
| | 9<br>14<br>18 | | | | | | |
| -75 | | | | -100 | | | |

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
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MAURER & STUTZ, INC. ENGINEERS SURVEYORS

| | |
|---|---|
| DESIGNED | - BAS |
| CHECKED | - KEF |
| DRAWN | - SGM |
| CHECKED | - BAS |

SOIL BORINGS
STRUCTURE NO. 036-0070

| SHEET NO. 22 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 22 SHEETS | 657 | (116-C)BR-1 | HENDERSON | 56 | 39 |
| | | | CONTRACT NO. 68761 | | |
| | FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT | | |