

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |          |                  |              |           |                           |
|-----------------------|----------|------------------|--------------|-----------|---------------------------|
| ROUTE NO.             | SECTION  | COUNTY           | TOTAL SHEETS | SHEET NO. | SHEET NO. 18<br>SHEETS 19 |
| F.A.P. 17             | 101BR-4  | OGLE             | 60           | 35        |                           |
| FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT |              |           |                           |

Contract # 64D11



**SOIL BORING LOG**

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ROUTE FAP 17 DESCRIPTION P92-051-07 IL 64 Bridge over Elkhorn Creek, 2.7 m. W. of IL 26 LOGGED BY J. Stratling  
DATE 2/27/07

SECTION 101 BR-4 LOCATION Brookville Twp. - 24 SW, SEC. , TWP. 24N, RNG. 7E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

| STRUCT. NO. | Station         | BORING NO. | Station         | Offset       | Ground Surface Elev. | DEPTH (ft)              | BLOW (blows/ft) | UCS (tsf) | MOIST (%) | DESCRIPTION   | DEPTH (ft) | BLOW (blows/ft) | UCS (tsf) | MOIST (%) |
|-------------|-----------------|------------|-----------------|--------------|----------------------|-------------------------|-----------------|-----------|-----------|---|------------|-----------------|-----------|-----------|
|             |                 |            |                 |              |                      |                         |                 |           |           |   |            |                 |           |           |
|             | 131+39 = 124+60 | B-1        | 130+71 = 123+92 | 11.00R LI CL | 97.50                |                         |                 |           |           | Surface Water Elev. 84.00 ft<br>Stream Bed Elev. 83.00 ft<br>Groundwater Elev.:<br>First Encounter 77.5 ft<br>Upon Completion<br>After Hrs. |            |                 |           |           |
|             |                 |            |                 |              |                      | 12" Asphalt             |                 |           |           | LOOSE gray dirty SAND with GRAVEL   |            |                 |           |           |
|             |                 |            |                 |              |                      | MEDIUM black SILTY LOAM |                 |           |           |   |            |                 |           |           |
|             |                 |            |                 |              |                      | 95.00                   | 4               |           |           | MEDIUM tan/gray weathered LIMESTONE   |            | 31              |           |           |
|             |                 |            |                 |              |                      | 93.50                   | 3               | 1.8       | 25.0      | Auger Refusal<br>VERY DENSE tan/gray weathered LIMESTONE  |            | 21              |           |           |
|             |                 |            |                 |              |                      |                         | 5               | P         |           | Borehole continued with rock coring.  |            | 9               |           |           |
|             |                 |            |                 |              |                      |                         | 3               |           |           |   |            |                 |           |           |
|             |                 |            |                 |              |                      |                         | 4               | 2.5       | 24.0      |   |            |                 |           |           |
|             |                 |            |                 |              |                      | 91.00                   | 5               | P         |           |   |            |                 |           |           |
|             |                 |            |                 |              |                      |                         | 1               |           |           |   |            |                 |           |           |
|             |                 |            |                 |              |                      |                         | 2               | 2.3       | 24.0      |   |            |                 |           |           |
|             |                 |            |                 |              |                      | 88.50                   | 5               | P         |           |   |            |                 |           |           |
|             |                 |            |                 |              |                      |                         | 8               |           |           |   |            |                 |           |           |
|             |                 |            |                 |              |                      |                         | 9               | 2.3       | 19.0      |   |            |                 |           |           |
|             |                 |            |                 |              |                      | 86.00                   | 8               | P         |           |   |            |                 |           |           |
|             |                 |            |                 |              |                      |                         | 2               |           |           |   |            |                 |           |           |
|             |                 |            |                 |              |                      |                         | 3               | 0.4       | 35.0      |   |            |                 |           |           |
|             |                 |            |                 |              |                      | 83.50                   | 3               | B         |           |   |            |                 |           |           |
|             |                 |            |                 |              |                      |                         | 1               |           |           |   |            |                 |           |           |
|             |                 |            |                 |              |                      |                         | 1               | 0.5       | 51.0      |   |            |                 |           |           |
|             |                 |            |                 |              |                      | 81.00                   | 2               | B         |           |   |            |                 |           |           |
|             |                 |            |                 |              |                      |                         | 2               |           |           |   |            |                 |           |           |
|             |                 |            |                 |              |                      |                         | 2               | 0.5       | 32.0      |   |            |                 |           |           |
|             |                 |            |                 |              |                      | 78.00                   | 2               | P         |           |   |            |                 |           |           |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrator)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)  
BBS, form 137 (Rev. 8-99)



**ROCK CORE LOG**

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ROUTE FAP 17 DESCRIPTION P92-051-07 IL 64 Bridge over Elkhorn Creek, 2.7 m. W. of IL 26 LOGGED BY J. Stratling  
DATE 2/27/07

SECTION 101 BR-4 LOCATION Brookville Twp. - 24 SW, SEC. , TWP. 24N, RNG. 7E

COUNTY Ogle CORING METHOD \_\_\_\_\_

| STRUCT. NO. | Station         | BORING NO. | Station         | Offset       | Ground Surface Elev. | DEPTH (ft) | CORING BARREL TYPE & SIZE   | RECOVERY (%) | CORRECTION (%) | CORE DIAMETER (in) | CORE LENGTH (ft) | STRENGTH (tsf) |
|-------------|-----------------|------------|-----------------|--------------|----------------------|------------|---|--------------|----------------|--------------------|------------------|----------------|
|             |                 |            |                 |              |                      |            |   |              |                |                    |                  |                |
|             | 131+39 = 124+60 | B-1        | 130+71 = 123+92 | 11.00R LI CL | 97.50                |            | Core Diameter 1.5 in<br>Top of Rock Elev. 75.50 ft<br>Begin Core Elev. 72.50 ft                       |              |                |                    |                  |                |
|             |                 |            |                 |              |                      | 72.50      | Dolomite: light and dark gray marbling, dense but severely fractured throughout in 1" to 3" segments. | 1            | 100            | 0                  | 4                |                |
|             |                 |            |                 |              |                      | 67.50      | Dolomite: as above, not as fractured. T.S.F. from 60.9 to 60.5  | 2            | 100            | 22                 | 2.4              | 989.0          |
|             |                 |            |                 |              |                      | 62.50      | Dolomite: as above T.S.F. from 58.1 to 57.8   | 3            | 100            | 13                 | 2.2              | 654.0          |
|             |                 |            |                 |              |                      | 67.50      | End of Boring   |              |                |                    |                  |                |

Color pictures of the cores \_\_\_\_\_  
Cores will be stored for examination until \_\_\_\_\_  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
BBS, form 138 (Rev. 8-99)

|          |     |
|----------|-----|
| DESIGNED | ASP |
| CHECKED  | WSP |
| DRAWN    | BEM |
| CHECKED  | ASP |

**BORING LOG**  
**IL 64 OVER FIVE MILE CREEK**  
**F.A.P. RT. 17 SECTION 101BR-4**  
**OGLE COUNTY**  
**STATION 124+91.00**  
**STRUCTURE NO. 071-0095**

