

Illinois Department of Transportation  
Division of Highways  
Applied Geotechnics

SOIL BORING LOG Page 1 of 2 Date 6/7/10

ROUTE FAU 1537 DESCRIPTION \_\_\_\_\_ LOGGED BY FM

SECTION \_\_\_\_\_ LOCATION \_\_\_\_\_ SEC. TWP. RING.

COUNTY Cook DRILLING METHOD SS HAMMER TYPE \_\_\_\_\_

STRUCT. NO. \_\_\_\_\_ D B U M  
Station \_\_\_\_\_ P L C O  
BORING NO. SB-02 T W S Qu S T  
Station \_\_\_\_\_ H S Qu S T  
Ground Surface Elev. 619.73 ft (ft) (/6") (tsf) (%)

Surface Water Elev. \_\_\_\_\_ ft  
Stream Bed Elev. \_\_\_\_\_ ft  
Groundwater Elev.:  
First Encounter 584.7 ft  
Upon Completion 578.7 ft  
After \_\_\_\_\_ Hrs.

| Depth (ft) | Blow Count (/6") | Penetration (tsf) | Soil Description                                   | Depth (ft) | Blow Count (/6") | Penetration (tsf) | Soil Description                           |
|------------|------------------|-------------------|--|------------|------------------|-------------------|--|
| 0          |                  |                   | Topsoil, silty clay, dark brown                    | 0          |                  |                   |  |
| 2          |                  |                   | Silty clay, some stone & topsoil, dark gray, stiff | 3          | 1.6              | 19.7              | Clay, silt, trace gravel, gray, hard       |
| 3          |                  |                   |  | 11         |                  | 18.2              |  |
| 2          |                  |                   |  | 12         |                  |                   |  |
| 2          |                  | 1.0               | Clay, some silt & gravel, brown gray, very stiff   | 10         | 5.6              | 15.1              | Clay, some silt & trace gravel, gray, hard |
| 3          |                  |                   |  | 13         |                  |                   |  |
| 2          |                  |                   |  | 7          |                  |                   |  |
| 3          | 2.2              | 21.8              | Clay, trace silt & gravel, brown, gray, very stiff | 9          | 1.6              | 11.8              | Clay, some silt & trace gravel, gray, hard |
| 3          |                  |                   |  | 16         |                  |                   |  |
| 5          |                  |                   |  | 10         |                  |                   |  |
| 6          | 3.3              | 21.0              | Clay, some silt, trace gravel, gray, hard          | 13         | 11.0             | 11.7              | Clay, some stone & silt, gray, hard        |
| 8          |                  |                   |  | 16         |                  |                   |  |
| 10         |                  |                   |  | 14         | 8.5              | 12.9              |  |
| 7          | 6.0              | 18.9              | Clay, some silt, trace gravel, gray, hard          | 16         |                  |                   | Clay, some stone & silt, gray, hard        |
| 9          |                  |                   |  | 14         |                  |                   |  |
| 3          |                  |                   |  | 16         |                  |                   |  |
| 6          | 6.5              | 17.7              | Clay, some silt, trace gravel, gray, hard          | 23         |                  |                   | Clay, some stone & silt, gray, hard        |
| 9          |                  |                   |  | 38         | 3.8              | 12.0              |  |
| 5          |                  |                   |  | 41         |                  |                   |  |

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)

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|------------|------------------|-------------------|---|------------|------------------|-------------------|---|
| 13         |                  |                   | Clay, some stone & silt, gray, hard (continued) | 19         | 12.8             | 13.6              | Silt, some stone & clay, gray, wel. dense |
| 19         |                  |                   |   | 23         |                  |                   |   |
| 16         |                  |                   |   | 11         |                  |                   |   |
| 11         |                  |                   | Silt, some stone & clay, gray, wel. dense       | 19         | 3.3              | 12.7              | End of Boring                             |
| 13         |                  |                   |   | 26         |                  |                   |   |
| 16         |                  |                   |   | 16         |                  |                   |   |

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FILE NAME = P:\60155077\000\_CAD\001\_Drawings\Sheets\Structural\01B-7726.DOT-sh161-Boring Log.dgn



|                              |                   |           |
|------------------------------|-------------------|-----------|
| USER NAME = debezicd         | DESIGNED - DD     | REVISED - |
| PLOT SCALE = 0:1' = 1" / IN. | DRAWN - DD        | REVISED - |
| PLOT DATE = 1/21/2011        | CHECKED - EJO     | REVISED - |
|                              | DATE - 01/10/2011 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: SHEET NO. 61 OF 61 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 1537                      | 06-00050-00-GS | COOK   | 209          | 155       |
| CONTRACT NO. 63556        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |