

|  |         |                           |              |           |
|--|---------|---------------------------|--------------|-----------|
| F.A.I. RTE.                            | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 70                                     | *       | MADISON                   | 420          | 311       |
| STA.                                   |         | TO STA.                   |              |           |
| FED. ROAD DIST. NO.                    |         | ILLINOIS FED. AID PROJECT |              |           |
| * 60-10K-1, 60-10HB CONTRACT NO. 76709 |         |                           |              |           |

**Illinois Department of Transportation**  
Division of Highways  
Soils Department

### SOIL BORING LOG

Page 1 of 2  
Date 4/24/01

ROUTE FAP 586 DESCRIPTION IL 162 over FAI 55/70 @ Troy LOGGED BY Mark Denton

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Drill Rig HAMMER TYPE 140#

STRUCT. NO. \_\_\_\_\_  
Station \_\_\_\_\_

BORING NO. 11 NE Corner Cone  
Station 19+06  
Offset 94.00R RT  
Ground Surface Elev. 565.10 ft (ft) (ft) (ft) (%)

| DEPTH (ft) | SOIL DESCRIPTION                   | WATER ELEV. (ft) | PERCENT MOISTURE (%) | LIQUID LIMIT (%) | PLASTICITY INDEX (%) | UNIFIED CLASSIFICATION |
|------------|------------------------------------|------------------|----------------------|------------------|----------------------|------------------------|
| 0          | Gray Silty CLAY (continued)        | 0                | 0.8                  | 3                | 10                   | 24                     |
| 3          | Gray Clay LOAM                     | 543.6            |                      |                  |                      |                        |
| 5          | Gray Silty Clay LOAM               | 562.1            | 2.4                  | 25               |                      |                        |
| 10         | Gray Clay LOAM                     | 541.1            |                      |                  |                      |                        |
| 15         | Gray Silty CLAY                    | 558.8            | 2.8                  | 28               |                      |                        |
| 20         | Dark Brown Robine SILT             |                  |                      |                  |                      |                        |
| 25         | Burn Results: 8.0% Organics        |                  |                      |                  |                      |                        |
| 30         | Burn Results: 6.5% Organics        |                  |                      |                  |                      |                        |
| 35         | Gray Silty CLAY with some Organics | 553.6            |                      |                  |                      |                        |
| 40         | Dark Brown Robine SILT             | 551.1            |                      |                  |                      |                        |
| 45         | Burn Results: 7.4% Organics        |                  |                      |                  |                      |                        |
| 50         | Gray Silty CLAY                    | 549.1            |                      |                  |                      |                        |

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  
Soils Department

### SOIL BORING LOG

Page 2 of 2  
Date 4/24/01

ROUTE FAP 586 DESCRIPTION IL 162 over FAI 55/70 @ Troy LOGGED BY Mark Denton

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Drill Rig HAMMER TYPE 140#

STRUCT. NO. \_\_\_\_\_  
Station \_\_\_\_\_

BORING NO. 11 NE Corner Cone  
Station 19+06  
Offset 94.00R RT  
Ground Surface Elev. 565.10 ft (ft) (ft) (ft) (%)

| DEPTH (ft) | SOIL DESCRIPTION                              | WATER ELEV. (ft) | PERCENT MOISTURE (%) | LIQUID LIMIT (%) | PLASTICITY INDEX (%) | UNIFIED CLASSIFICATION |
|------------|---|------------------|----------------------|------------------|----------------------|------------------------|
| 30.3       | Brown & Gray Clay LOAM (continued)            | 507.3            | 3.3                  | 16               |                      |                        |
| 33         | (Very Dry) Brown & Gray Clay LOAM (continued) |                  |                      |                  |                      |                        |
| 35         | Gray SILT                                     | 500.1            |                      |                  |                      |                        |
| 37         | Some wood found                               | 494.5            |                      |                  |                      |                        |
| 39         | Gray Silty CLAY                               | 494.1            |                      |                  |                      |                        |
| 41         | End of Boring @ 71 ft                         |                  |                      |                  |                      |                        |
| 43         | Fine to Coarse Limestone Gravel               |                  |                      |                  |                      |                        |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
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BBS, from 137 (Rev. 8-99)

**Illinois Department of Transportation**  
Division of Highways  
Soils Department

### SOIL BORING LOG

Page 1 of 2  
Date 1/28/05

ROUTE 586 DESCRIPTION East Retaining Wall LOGGED BY MH/PMK

SECTION 60-10-4HB LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140-lb Hydraulic

STRUCT. NO. 060-W002  
Station \_\_\_\_\_

BORING NO. SB-19  
Station 1351+76  
Offset 84.00R Left  
Ground Surface Elev. 562.89 ft (ft) (ft) (ft) (%)

| DEPTH (ft) | SOIL DESCRIPTION           | WATER ELEV. (ft) | PERCENT MOISTURE (%) | LIQUID LIMIT (%) | PLASTICITY INDEX (%) | UNIFIED CLASSIFICATION |
|------------|----------------------------|------------------|----------------------|------------------|----------------------|------------------------|
| 1          | Gray-Brown Silty Clay LOAM | NA               |                      |                  |                      |                        |
| 2          | Gray-Brown SILT            | 559.89           |                      |                  |                      |                        |
| 3          | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 4          | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 5          | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 6          | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 7          | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 8          | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 9          | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 10         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 11         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 12         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 13         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 14         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 15         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 16         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 17         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 18         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 19         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 20         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 21         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 22         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 23         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 24         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 25         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 26         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 27         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 28         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 29         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 30         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 31         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 32         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 33         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 34         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 35         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 36         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 37         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 38         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 39         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 40         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 41         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 42         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 43         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 44         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 45         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 46         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 47         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 48         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 49         | Gray-Brown SILT            |                  |                      |                  |                      |                        |
| 50         | Gray-Brown SILT            |                  |                      |                  |                      |                        |

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  
Soils Department

### SOIL BORING LOG

Page 2 of 2  
Date 1/28/05

ROUTE 586 DESCRIPTION East Retaining Wall LOGGED BY MH/PMK

SECTION 60-10-4HB LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140-lb Hydraulic

STRUCT. NO. 060-W002  
Station \_\_\_\_\_

BORING NO. SB-19  
Station 1351+76  
Offset 84.00R Left  
Ground Surface Elev. 562.89 ft (ft) (ft) (ft) (%)

| DEPTH (ft) | SOIL DESCRIPTION            | WATER ELEV. (ft) | PERCENT MOISTURE (%) | LIQUID LIMIT (%) | PLASTICITY INDEX (%) | UNIFIED CLASSIFICATION |
|------------|-----------------------------|------------------|----------------------|------------------|----------------------|------------------------|
| 1          | Gray-Brown CLAY (continued) |                  |                      |                  |                      |                        |
| 2          | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 3          | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 4          | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 5          | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 6          | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 7          | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 8          | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 9          | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 10         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 11         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 12         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 13         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 14         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 15         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 16         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 17         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 18         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 19         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 20         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 21         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 22         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 23         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 24         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 25         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 26         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 27         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 28         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 29         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 30         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 31         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 32         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 33         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 34         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 35         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 36         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 37         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 38         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 39         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 40         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 41         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 42         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 43         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 44         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 45         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 46         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 47         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 48         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 49         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |
| 50         | Gray-Brown CLAY             |                  |                      |                  |                      |                        |

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### SOIL BORING LOG

Page 1 of 2  
Date 2/1/05

ROUTE 586 DESCRIPTION East Retaining Wall LOGGED BY MH/PMK

SECTION 60-10-4HB LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140-lb Hydraulic

STRUCT. NO. 060-W002  
Station \_\_\_\_\_

BORING NO. SB-20  
Station 1349+90  
Offset 125.00R Left  
Ground Surface Elev. 562.58 ft (ft) (ft) (ft) (%)

| DEPTH (ft) | SOIL DESCRIPTION                          | WATER ELEV. (ft) | PERCENT MOISTURE (%) | LIQUID LIMIT (%) | PLASTICITY INDEX (%) | UNIFIED CLASSIFICATION |
|------------|---|------------------|----------------------|------------------|----------------------|------------------------|
| 1          | Gray-Brown Silty Clay LOAM, Possible FILL | 542.99           |                      |                  |                      |                        |
| 2          | Gray-Brown Silty Clay LOAM                |                  |                      |                  |                      |                        |
| 3          | Gray-Brown Silty Clay LOAM                |                  |                      |                  |                      |                        |
| 4          | Gray-Brown Silty Clay LOAM                |                  |                      |                  |                      |                        |
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| 49         | Gray-Brown Silty Clay LOAM                |                  |                      |                  |                      |                        |
| 50         | Gray-Brown Silty Clay LOAM                |                  |                      |                  |                      |                        |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
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BBS, from 137 (Rev. 8-99)

**Illinois Department of Transportation**  
Division of Highways  
Soils Department

### SOIL BORING LOG

Page 2 of 2  
Date 2/1/05

ROUTE 586 DESCRIPTION East Retaining Wall LOGGED BY MH/PMK

SECTION 60-10-4HB LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140-lb Hydraulic

STRUCT. NO. 060-W002  
Station \_\_\_\_\_

BORING NO. SB-20  
Station 1349+90  
Offset 125.00R Left  
Ground Surface Elev. 562.58 ft (ft) (ft) (ft) (%)

| DEPTH (ft) | SOIL DESCRIPTION                 | WATER ELEV. (ft) | PERCENT MOISTURE (%) | LIQUID LIMIT (%) | PLASTICITY INDEX (%) | UNIFIED CLASSIFICATION |
|------------|----------------------------------|------------------|----------------------|------------------|----------------------|------------------------|
| 1          | Gray Silty Clay LOAM (continued) |                  |                      |                  |                      |                        |
| 2          | Gray Silty Clay LOAM             |                  |                      |                  |                      |                        |
| 3          | Gray Silty Clay LOAM             |                  |                      |                  |                      |                        |