

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**BORING LOG RWN-25**  
WEI Job No.: 201-34-01  
Client: McDonough Associates, Inc.  
Project: I-55 Interchange at Arsenal Road  
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NAVD  
Elevation: 545.16 ft  
North: 1727397.44 ft  
East: 1022695.83 ft  
Station: 933+82.51  
Offset: 21.12 LT

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION                             | Depth (ft) | Sample No. | SPT Values (blows/in) | Qu (tsf) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blows/in) | Qu (tsf) | Moisture Content (%) |
|------------------------|---|------------|------------|-----------------------|----------|----------------------|------------------------|---------------------------|------------|------------|-----------------------|----------|----------------------|
| 544.2                  | 12-inch thick, brown GRAVELLY SAND                    |            |            |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        | --FILL--  |            |            |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        | Stiff, brown and black SANDY CLAY LOAM                | 4          | 1          | 6                     | 1.25     | 27                   |                        |                           |            |            |                       |          |                      |
|                        |   | 6          | 6          |                       |          |                      |                        |                           |            |            |                       |          |                      |
| 542.7                  | Dense, brown SANDY LOAM with dolostone rock fragments |            |            |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        | --WEATHERED BEDROCK--                                 |            |            |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        | --AUGER REFUSAL @ 4' 6"--                             |            | 2          | 7                     | NP       | 9                    |                        |                           |            |            |                       |          |                      |
| 540.7                  | Boring terminated at 4.50 ft                          | 5          |            |                       |          |                      |                        |                           |            |            |                       |          |                      |

| GENERAL NOTES       |   | WATER LEVEL DATA    |                 |
|---------------------|---|---------------------|-----------------|
| Begin Drilling      | 08-27-2008  | Complete Drilling   | 08-27-2008      |
| Drilling Contractor | Wang Testing Service  | Drill Rig           | Mobile B-57 TMR |
| Driller             | K & J   | Logger              | F. Bozga        |
| Checked by          | E. Datz   | Time After Drilling | NA              |
| Drilling Method     | 3.25" IDA HSA; Boring backfilled with bentonite upon completion | Depth to Water      | NA              |

**BORING LOG RWN-26**  
WEI Job No.: 201-34-01  
Client: McDonough Associates, Inc.  
Project: I-55 Interchange at Arsenal Road  
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NAVD  
Elevation: 548.26 ft  
North: 1727545.05 ft  
East: 1022695.85 ft  
Station: 935+30.15  
Offset: 20.93 LT

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION                  | Depth (ft) | Sample No. | SPT Values (blows/in) | Qu (tsf) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blows/in) | Qu (tsf) | Moisture Content (%) |
|------------------------|--|------------|------------|-----------------------|----------|----------------------|------------------------|---------------------------|------------|------------|-----------------------|----------|----------------------|
|                        | 12-inch thick, black and brown SANDY LOAM  |            |            |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        | --TOPSOIL--                                |            |            |                       |          |                      |                        |                           |            |            |                       |          |                      |
| 545.3                  | Loose to medium dense, brown Gravelly LOAM |            |            |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        | --GRAVEL=66.9%--                           |            | 1          | 5                     | NP       | 17                   |                        |                           |            |            |                       |          |                      |
|                        | --SAND=13.8%--                             |            | 4          |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        | --SILT=14.3%--                             |            |            |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        | --CLAY=5.0%--                              |            |            |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        |  |            | 3          |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        |  |            | 2          |                       |          |                      |                        |                           |            |            |                       |          |                      |
| 541.8                  | --WEATHERED BEDROCK--                      |            |            |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        | --AUGER REFUSAL @ 5' 6"--                  |            | 5          | 10                    |          |                      |                        |                           |            |            |                       |          |                      |
| 547.9                  | Boring terminated at 5.50 ft               | 5          |            |                       |          |                      |                        |                           |            |            |                       |          |                      |

| GENERAL NOTES       |   | WATER LEVEL DATA    |                 |
|---------------------|---|---------------------|-----------------|
| Begin Drilling      | 08-27-2008  | Complete Drilling   | 08-27-2008      |
| Drilling Contractor | Wang Testing Service  | Drill Rig           | Mobile B-57 TMR |
| Driller             | K & J   | Logger              | F. Bozga        |
| Checked by          | E. Datz   | Time After Drilling | NA              |
| Drilling Method     | 3.25" IDA HSA; Boring backfilled with bentonite upon completion | Depth to Water      | NA              |

**BORING LOG RWN-27**  
WEI Job No.: 201-34-01  
Client: McDonough Associates, Inc.  
Project: I-55 Interchange at Arsenal Road  
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NAVD  
Elevation: 548.37 ft  
North: 1727695.65 ft  
East: 1022690.76 ft  
Station: 936+74.8  
Offset: 21.79 LT

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION                    | Depth (ft) | Sample No. | SPT Values (blows/in) | Qu (tsf) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blows/in) | Qu (tsf) | Moisture Content (%) |
|------------------------|--|------------|------------|-----------------------|----------|----------------------|------------------------|---------------------------|------------|------------|-----------------------|----------|----------------------|
|                        | 12-inch thick, black and brown SANDY LOAM    |            |            |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        | --TOPSOIL--                                  |            |            |                       |          |                      |                        |                           |            |            |                       |          |                      |
| 547.4                  | Medium dense, brown SANDY LOAM, trace gravel |            |            |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        |  |            | 7          |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        |  |            | 8          |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        |  |            | 6          |                       |          |                      |                        |                           |            |            |                       |          |                      |
| 545.4                  | --WEATHERED BEDROCK--                        |            |            |                       |          |                      |                        |                           |            |            |                       |          |                      |
|                        | --AUGER REFUSAL @ 3' 6"--                    |            | 2          |                       |          |                      |                        |                           |            |            |                       |          |                      |
| 544.9                  | Boring terminated at 3.50 ft                 | 3          |            |                       |          |                      |                        |                           |            |            |                       |          |                      |

| GENERAL NOTES       |   | WATER LEVEL DATA    |                 |
|---------------------|---|---------------------|-----------------|
| Begin Drilling      | 08-27-2008  | Complete Drilling   | 08-27-2008      |
| Drilling Contractor | Wang Testing Service  | Drill Rig           | Mobile B-57 TMR |
| Driller             | K & J   | Logger              | F. Bozga        |
| Checked by          | E. Datz   | Time After Drilling | NA              |
| Drilling Method     | 3.25" IDA HSA; Boring backfilled with bentonite upon completion | Depth to Water      | NA              |

|          |     |
|----------|-----|
| DESIGNED | PMH |
| CHECKED  | MJL |
| DRAWN    | PMH |
| CHECKED  | MJL |

**McDonough Associates Inc.**  
Engineers / Architects  
130 East Randolph Street  
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|   |             |              |          |                  |           |
|---|-------------|--------------|----------|------------------|-----------|
| SHEET NO.<br>RW2-28<br>SHEETS<br>RW2-31 | F.A.I. RTE. | SECTION      | COUNTY   | TOTAL SHEETS     | SHEET NO. |
|   | 55          | (99-1&2) R-6 | WILL     | 756              | 492       |
| FED. ROAD DIST. NO.                     |             |              | ILLINOIS | FED. AID PROJECT |           |
| CONTRACT NO. 60F12                      |             |              |          |                  |           |

**SOIL BORINGS**  
**STRUCTURE NO. 099-W027**