

Time: 04:08:49 PM

Date: 11/22/2004

Filename: F:\643996\Structural\A3\072-2032\sheet\Final Plans\Contract - #10.BL0004-1A072032.dgn

| ROUTE NO.             | SECT.      | COUNTY   | SHEET NO.        | TOTAL SHEETS |
|-----------------------|------------|----------|------------------|--------------|
| F.A.I. 74             | (72-7) R-3 | PEORIA   | 567              | 1360         |
| FED. ROAD DIST. NO. 7 |            | ILLINOIS | FED. AID PROJECT |              |

CONTRACT NO. 68200

| RSV ENGINEERING, INC.  |   | BORING LOG                                    |                  | SCHAUMBURG, ILLINOIS |                   |   |          |                 |
|--|---|---|------------------|----------------------|-------------------|---|----------|-----------------|
| JOB NO: 98600  | CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION | BORING NO: RWA3S-9                            | STATION: 10+567  | OFFSET: 18.3m Lt     | SURF ELEV: 193.43 |   |          |                 |
| PROJECT: Interstate Route 74 Improvements - Peoria, Illinois |   | LOCATION: Retaining Wall Ramp A-3 SN 072-8556 |                  |                      |                   |   |          |                 |
| BORING RIG & METHOD: CME-55 w/Hollow Stem Augers             |   |   |                  |                      |                   |   |          |                 |
| SOIL DESCRIPTION   | ELEV.   | DEPTH   | SAMPLE FROM - TO | REC. mm              | BLOWS/150mm       | q <sub>u</sub> kPa                        | STRAIN % | WATER CONTENT % |
| 150mm Bituminous Concrete                                    | 193.26  |   | 0.00-0.30        |                      | Auger             |   |          |                 |
|  |   |   | 0.30-0.76        | 203                  | 2                 | 335                                       |          | 12              |
| Very Stiff to Stiff Br Silty Clay Loam A-4                   |   |   | 1.07-1.52        | 457                  | 1-5               | 278                                       | 15       | 15              |
|  |   |   | 1.83-2.29        | 381                  | 3                 | 153                                       | 15       | 14              |
|  |   |   | 2.59-3.05        | 432                  | 4                 | 383                                       | 15       | 14              |
| Hard to Very Stiff Br Silty Clay Loam A-4                    | 190.78  |   | 3.35-3.81        | 457                  | 6-8               | 201                                       | 15       | 14              |
|  | 189.47  |   | 4.11-4.57        | 457                  | 7-10              | 172                                       | 15       | 15              |
| Stiff to Very Stiff Br to Gr Clay Loam A-6                   |   | 5   | 4.88-5.33        | 457                  | 5                 | 259                                       | 15       | 21              |
|  | 187.70  |   | 5.64-6.10        | 406                  | 6-6               | 163                                       | 15       | 15              |
| Stiff to Very Stiff Br & Gr to Gr Loam A-4                   |   |   | 6.40-6.86        | 457                  | 4-6               | 316                                       | 15       | 12              |
|  | 185.66  |   | 7.16-7.62        | 457                  | 10-11             | 278                                       | 15       | 15              |
| Stiff to Very Stiff Br Clay A-6                              |   |   | 7.92-8.38        | 432                  | 7                 | 134                                       | 15       | 26              |
|  | 184.59  |   | 8.69-9.14        | 457                  | 3                 | 192                                       | 15       | 15              |
| Stiff Br Loam A-4  | 183.98  |   | 9.45-9.91        | 406                  | 4-7               |   |          | 10              |
|  |   | 10  | 10.21-10.67      | 330                  | 7-11              |   |          | 15              |
| Medium Dense Gr Sandy Loam A-2-4                             | 182.61  |   | 10.97-11.43      | 457                  | 11-10             |   |          | 16              |
| Medium Dense Br Sand A-1-b                                   | 181.51  |   | 11.73-12.19      | 457                  | 8                 | 172                                       | 15       | 12              |
| Stiff to Very Stiff Gr Loam A-4                              |   |   | 12.50-12.95      | 457                  | 9-13              |   |          | 12              |
|  |   |   |                  |                      | 6                 | 278                                       | 15       | 12              |
| REMARKS: CME Automatic Hammer Used.                          |   |   |                  |                      |                   | *Denotes Calibrated Penetrometer Estimate |          |                 |
| WATER  | 11.0m ELEV.                                   | 182.45 DURING DRILLING                        | SCORE SIZE       | mm                   | DATE:             | Apr 10, 00                                |          |                 |
| WATER  | m ELEV.                                       | AT COMPLETION                                 | CASING LENGTH    | m                    | DRILLER:          | Dison                                     |          |                 |
| WATER  | 10.1m ELEV.                                   | 183.37 AFTER 1/2 HRS.                         | CASING DIAMETER  | mm                   | INSPECTOR:        | Reed                                      |          |                 |

| RSV ENGINEERING, INC.  |   | BORING LOG                                    |                            | SCHAUMBURG, ILLINOIS |                   |   |          |                 |  |
|--|---|---|----------------------------|----------------------|-------------------|---|----------|-----------------|--|
| JOB NO: 98600  | CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION | BORING NO: RWA3S-9                            | STATION: 10+567            | OFFSET: 18.3m Lt     | SURF ELEV: 193.43 |   |          |                 |  |
| PROJECT: Interstate Route 74 Improvements - Peoria, Illinois |   | LOCATION: Retaining Wall Ramp A-3 SN 072-8556 |                            |                      |                   |   |          |                 |  |
| BORING RIG & METHOD: CME-55 w/Hollow Stem Augers             |   |   |                            |                      |                   |   |          |                 |  |
| SOIL DESCRIPTION   | ELEV.   | DEPTH   | SAMPLE FROM - TO           | REC. mm              | BLOWS/150mm       | q <sub>u</sub> kPa                        | STRAIN % | WATER CONTENT % |  |
| Stiff to Very Stiff Gr Loam A-4                              |   |   | 13.26-13.72                | 457                  | 5                 | 220                                       | 15       | 14              |  |
|  | 179.56  |   | 14.02-14.48                | 457                  | 3                 | 144                                       | 15       | 14              |  |
| Stiff to Very Stiff Gr Clay Loam A-4                         |   | 15  | 14.78-15.24                | 457                  | 5                 | 239                                       | 15       | 13              |  |
|  |   |   | 15.54-16.00                | 457                  | 7-10              | 230                                       | 15       | 13              |  |
| Stiff to Very Stiff Gr Clay Loam A-4                         | 177.27  |   | 16.31-16.76                | 457                  | 4                 | 134                                       | 15       | 14              |  |
|  |   |   | 17.07-17.53                | 457                  | 6-8               | 220                                       | 15       | 13              |  |
| Stiff to Very Stiff Gr Loam A-4                              |   |   | 17.83-18.29                | 457                  | 10-13             | 239                                       | 15       | 13              |  |
|  | 174.99  |   | 18.59-19.05                | 203                  | 9                 | 182                                       | 15       | 15              |  |
| Stiff to Very Stiff Gr Loam A-4                              |   |   | 19.35-19.81                | 457                  | 5                 | 201                                       | 15       | 13              |  |
|  | 173.46  | 20  | 20.12-20.57                | 457                  | 10-13             | 182                                       | 15       | 13              |  |
| Stiff to Very Stiff Gr Loam A-4                              |   |   | 20.88-21.34                | 457                  | 7                 | 239                                       | 15       | 12              |  |
|  |   |   | 21.64-22.10                | 457                  | 8-13              | 201                                       | 15       | 13              |  |
| Hard to Very Stiff Gr Silty Clay Loam A-4; Cobbles noted     |   |   | 22.40-22.86                | 457                  | 8                 | 259                                       | 15       | 12              |  |
|  | 170.42  |   | 23.16-23.62                | 457                  | 9                 | 508                                       | 15       | 11              |  |
| Hard Gr Loam A-4   |   |   | 23.93-24.38                | 457                  | 6                 | 316                                       | 15       | 11              |  |
|  | 168.89  |   | 24.69-25.15                | 457                  | 12                | 412                                       | 15       | 11              |  |
|  | 168.28  | 25  | Boring terminated at 25.2m |                      |                   |   |          |                 |  |
| REMARKS: CME Automatic Hammer Used.                          |   |   |                            |                      |                   | *Denotes Calibrated Penetrometer Estimate |          |                 |  |
| WATER  | 11.0m ELEV.                                   | 182.45 DURING DRILLING                        | SCORE SIZE                 | mm                   | DATE:             | Apr 10, 00                                |          |                 |  |
| WATER  | m ELEV.                                       | AT COMPLETION                                 | CASING LENGTH              | m                    | DRILLER:          | Dison                                     |          |                 |  |
| WATER  | 10.1m ELEV.                                   | 183.37 AFTER 1/2 HRS.                         | CASING DIAMETER            | mm                   | INSPECTOR:        | Reed                                      |          |                 |  |

**LEGEND - RSV ENGINEERING INC. (NOW BLOOM CONSULTANTS, LLC) TEST BORING LOGS**

- |                            |  |                       |   |
|----------------------------|--|-----------------------|---|
| A-1 to A-7 (and subgroups) | Engineering classifications of soil samples in accordance with AASHTO M 145 standard specification.  | Penetrometer Estimate | An approximation of the unconfined compressive strength of the soil sample in kilopascals obtained with the use of a calibrated hand penetrometer device. |
| BLOWS/150mm                | Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance with AASHTO T 206 standard specification.      | 50 mm ST              | 50 mm diameter thin-walled tube (Shelby Tube) relatively undisturbed soil sample obtained in accordance with AASHTO T 207 standard specification.         |
| q <sub>u</sub> , kPa       | Unconfined compression strength of soil sample in kilopascals determined in accordance with AASHTO T 208 standard specification.                   | γ <sub>d</sub>        | Dry unit weight of soil specimen in kilograms per cubic meter.  |
| STRAIN, %                  | Actual strain of soil sample at failure (15 percent maximum allowed) during unconfined compression strength test (see AASHTO T 208 specification). | REC.                  | Length of sample recovered in millimeters.  |
| WATER CONTENT, %           | Natural moisture content of soil sample in percent determined in accordance with AASHTO T 265 standard specification.                              |                       |   |

|  |                 |                 |                 |
|--|-----------------|-----------------|-----------------|
| STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION  |                 |                 |                 |
| BORING LOGS IV   |                 |                 |                 |
| F.A.I. ROUTE 74 (I-74) OVER DRY RUN CREEK<br>F.A.I. ROUTE 74 SEC. (72-7)R-3<br>PEORIA COUNTY STA. 143+305.339 (E.B. I-74)<br>STRUCTURE NUMBER 072-2032 |                 |                 |                 |
| PARSONS TRANSPORTATION GROUP<br>CHICAGO, ILLINOIS  |                 |                 |                 |
| DRAWING NO.<br>16  | SCALE<br>N.T.S. | DATE<br>6/30/03 | SHEET NO.<br>16 |