

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |           |                  |              |           |
|-----------------------|-----------|------------------|--------------|-----------|
| ROUTE NO.             | SECTION   | COUNTY           | TOTAL SHEETS | SHEET NO. |
| F.A.P. 301 (US 20)    | (2HB-1/D) | WINNEBAGO        | 107          | 98        |
| FED. ROAD DIST. NO. 7 | ILLINOIS  | FED. AID PROJECT |              |           |

SHEET NO. 33  
34 SHEETS

Contract #64B07

Illinois Department of Transportation  
Division of Highways  
SOIL BORING LOG  
Page 1 of 2

P92-069-05 Bypass 20 Bridge over Simpson Road, south edge of Rockford, 900' E. of Prairie Road

Date 1/23/06

ROUTE US Bypass 20 DESCRIPTION LOGGED BY J. Stratina

SECTION 2HB-1 & 2 LOCATION Rockford Twp. - 4SE, SEC. , TWP. 43N, RNG. 1E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

| STRUCT. NO.                                     | STATION | D  | B  | U   | M  | Surface Water Elev. | D         | B     | U     | M   |
|---|---------|----|----|-----|----|---------------------|-----------|-------|-------|-----|
|   |         | EP | LO | CS  | IS | ft                  | EP        | LO    | CS    | IS  |
| BORING NO.                                      | STATION | T  | W  | Qu  | T  | Groundwater Elev.:  | H         | S     | Qu    | T   |
|   |         | H  | S  |     |    | First Encounter     | (ft)      | (/6") | (tsf) | (%) |
|   |         |    |    |     |    | Upon Completion     |           |       |       |     |
|   |         |    |    |     |    | After               |           |       |       |     |
|   |         |    |    |     |    | Hrs.                |           |       |       |     |
| MEDIUM brown LOAM                               | 849+28  |    |    | 0.5 | 20 | 734.50              | 3         | 4     | 2.9   | 23  |
|   |         |    |    | P   |    |                     | 11        | B     |       |     |
| MEDIUM brown SILTY CLAY LOAM                    | 753.50  | 1  |    | 0.6 | 29 | 752.00              | 4         | 4     | 1.1   | 18  |
|   |         | 2  |    | P   |    |                     | 5         | P     |       |     |
| MEDIUM brown SILTY CLAY LOAM                    | 749.50  | 2  |    | 0.9 | 28 | 729.50              | 2         | 6     | 3.5   | 25  |
|   |         | 3  |    | B   |    |                     | 8         | B     |       |     |
| MEDIUM gray/brown SANDY LOAM                    | 747.00  | 8  |    |     | 9  | 726.50              | 3         | 4     | 2.1   | 22  |
|   |         | 9  |    |     |    |                     | 4         | S     |       |     |
|   |         | 10 |    |     |    |                     | 6         |       |       |     |
| VERY STIFF gray/brown SILTY CLAY with SAND lens | 744.50  | 5  |    | 3.5 | 25 | 724.00              | 2         | 5     |       |     |
|   |         | 5  |    | B   |    |                     | 5         |       |       |     |
|   |         | 11 |    |     |    |                     | 5         |       |       |     |
| VERY STIFF gray SILTY CLAY                      | 741.50  | 3  |    | 3.1 | 24 | 722.00              | 7         | 14    |       |     |
|   |         | 6  |    | B   |    |                     | 23        |       |       |     |
|   |         | 7  |    |     |    |                     | 7         |       |       |     |
| MEDIUM brown dirty SAND & GRAVEL                | 739.50  | 5  |    |     |    | 719.50              | 15        |       |       |     |
|   |         | 7  |    |     |    |                     | 100/10.5" |       |       |     |
|   |         | 8  |    |     |    |                     |           |       |       |     |
| MEDIUM reddish brown dirty SAND & GRAVEL        | 736.50  | 5  |    |     |    | 717.00              | 100/7     |       |       |     |
|   |         | 7  |    |     |    |                     |           |       |       |     |
|   |         | 9  |    |     |    |                     |           |       |       |     |
|   |         | 9  |    |     |    |                     |           |       |       |     |

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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Division of Highways  
SOIL BORING LOG  
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P92-069-05 Bypass 20 Bridge over Simpson Road, south edge of Rockford, 900' E. of Prairie Road

Date 1/23/06

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|------------------------------------|---------|----|----|----|----|---------------------|-------|-------|-------|-----|
|                                    |         | EP | LO | CS | IS | ft                  | EP    | LO    | CS    | IS  |
| BORING NO.                         | STATION | T  | W  | Qu | T  | Groundwater Elev.:  | H     | S     | Qu    | T   |
|                                    |         | H  | S  |    |    | First Encounter     | (ft)  | (/6") | (tsf) | (%) |
|                                    |         |    |    |    |    | Upon Completion     |       |       |       |     |
|                                    |         |    |    |    |    | After               |       |       |       |     |
|                                    |         |    |    |    |    | Hrs.                |       |       |       |     |
| VERY DENSE tan weathered LIMESTONE | 849+28  |    |    |    |    | 714.50              | 100/3 |       |       |     |
| End of Boring                      |         |    |    |    |    |                     |       |       |       |     |

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|--|---------|----|----|-----|----|---------------------|-------|-------|-------|-----|
|  |         | EP | LO | CS  | IS | ft                  | EP    | LO    | CS    | IS  |
| BORING NO.   | STATION | T  | W  | Qu  | T  | Groundwater Elev.:  | H     | S     | Qu    | T   |
|  |         | H  | S  |     |    | First Encounter     | (ft)  | (/6") | (tsf) | (%) |
|  |         |    |    |     |    | Upon Completion     |       |       |       |     |
|  |         |    |    |     |    | After               |       |       |       |     |
|  |         |    |    |     |    | Hrs.                |       |       |       |     |
| MEDIUM dark brown LOAM                               | 849+28  |    |    | 0.5 | 19 | 713.80              | 100/7 |       |       |     |
|  |         |    |    | P   |    |                     |       |       |       |     |
| STIFF brown SILTY CLAY LOAM                          | 732.80  | 5  |    | 1.7 | 20 | 711.30              | 100/3 |       |       |     |
|  |         | 5  |    | B   |    |                     |       |       |       |     |
|  |         | 10 |    |     |    |                     |       |       |       |     |
| MEDIUM dark gray SANDY LOAM with LIMESTONE fragments | 728.80  | 5  |    | 0.8 | 14 | 708.80              | 100/3 |       |       |     |
|  |         | 3  |    | P   |    |                     |       |       |       |     |
|  |         | 4  |    |     |    |                     |       |       |       |     |
| STIFF gray SILTY CLAY LOAM                           | 725.80  | 2  |    | 1.8 | 27 |                     |       |       |       |     |
|  |         | 3  |    | P   |    |                     |       |       |       |     |
|  |         | 6  |    |     |    |                     |       |       |       |     |
| LOOSE dark brown dirty medium SAND                   | 723.80  | 2  |    |     |    |                     |       |       |       |     |
|  |         | 2  |    |     |    |                     |       |       |       |     |
|  |         | 4  |    |     |    |                     |       |       |       |     |
| MEDIUM brown medium SAND with LIMESTONE fragments    | 720.80  | 5  |    |     |    |                     |       |       |       |     |
|  |         | 7  |    |     |    |                     |       |       |       |     |
|  |         | 14 |    |     |    |                     |       |       |       |     |
| VERY DENSE tan/brown weathered LIMESTONE             | 718.80  | 22 |    |     |    |                     |       |       |       |     |
|  |         | 25 |    |     |    |                     |       |       |       |     |
|  |         | 29 |    |     |    |                     |       |       |       |     |
| DENSE tan weathered LIMESTONE with SAND lenses       | 716.30  | 18 |    |     |    |                     |       |       |       |     |
|  |         | 18 |    |     |    |                     |       |       |       |     |
|  |         | 19 |    |     |    |                     |       |       |       |     |

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|          |     |
|----------|-----|
| DESIGNED | SSM |
| CHECKED  | JLA |
| DRAWN    | GYR |
| CHECKED  | SSM |

BORING LOGS  
F.A.P. ROUTE 301 (US 20)  
OVER SIMPSON ROAD  
SECTION (2HB-1/D)  
WINNEBAGO COUNTY  
STATION 849+27.97  
STRUCTURE NO. 101-0053 (W.B.)  
STRUCTURE NO. 101-0054 (E.B.)