

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAGE 1 of 2
DATE 7/7/2010
LOGGED BY MR
GSI JOB No. 10098

SOIL BORING LOG

ROUTE F.A.I. RTE. 55 DESCRIPTION Central Avenue Over Interstate 55 Ramp Reconstruction
SECTION 9(H, HB & SB)R-1 LOCATION SEC. 4 & 5, TWP. 38 N., RNG. 13 E., 3rd P.M., Stickney Township
COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-1307
Station 402+64 to 404+99
BORING NO. RW-17
Station 402+37
Offset 64.0' Left
Ground Surface Elev. 599.1

| Soil Description | Elev. (ft) | D (ft) | B (6") | U (tsf) | M (%) | Surface Water Elev. | Stream Bed Elev. | Groundwater Elevation: | First Encounter | Upon Completion | After Hrs. | D (ft) | B (6") | U (tsf) | M (%) |
|--|------------|--------|--------|---------|-------|---------------------|------------------|------------------------|-----------------|-----------------|------------|--------|--------|---------|-------|
| | | | | | | | | | | | | | | | |
| SILTY SAND, GRAVEL & STONE (Fill) | 597.6 | | AS | NP | 9 | n/a | n/a | | | | | | | | |
| CLAY LOAM with Asphalt-medium dense (Fill) | 596.1 | | | 13 | 1.5P | 12 | | | | | | | ST | 3.25P | 15 |
| CLAY-brown & gray-stiff (A-6) | 594.6 | | | 3 | | 102 | | | | | | | | | 102 |
| CLAY-gray-stiff to very stiff (A-6) | | | | 4 | | | | | | | | | | | |
| | | | | -5 | 5 | 1.3B | 22 | | | | | | | | |
| SILT-brown & gray-loose (A-4) | | | | 2 | | | | | | | | | | | |
| | | | | 2 | | NP | 26 | | | | | | | | |
| | | | | 2 | | | | | | | | | | | |
| | | | | 2 | | | | | | | | | | | |
| | | | | -10 | 3 | NP | 20 | | | | | | | | |
| SILTY CLAY-gray-medium stiff (A-4/A-6) | 588.6 | | | 2 | | | | | | | | | | | |
| | | | | 2 | | | | | | | | | | | |
| | | | | 2 | | 0.9B | 25 | | | | | | | | |
| CLAY-brown & gray-stiff (A-6) | 586.1 | | | 3 | | | | | | | | | | | |
| | | | | 3 | | | | | | | | | | | |
| | | | | -15 | 4 | 1.1B | 25 | | | | | | | | |
| CLAY LOAM-gray-very stiff (A-6) | 583.6 | | | | | | | | | | | | | | |
| | | | | 3 | | | | | | | | | | | |
| | | | | 5 | | | | | | | | | | | |
| | | | | 7 | | 1.3B | 22 | | | | | | | | |
| | | | | 3 | | | | | | | | | | | |
| | | | | 5 | | | | | | | | | | | |
| | | | | 16 | | | | | | | | | | | |
| | | | | 22 | | | | | | | | | | | |
| | | | | -20 | 7 | 1.8B | 21 | | | | | | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T296) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

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|---|------------|--------|--------|---------|-------|---------------------|------------------|------------------------|-----------------|-----------------|------------|--------|--------|---------|-------|
| | | | | | | | | | | | | | | | |
| CLAY LOAM-gray-very stiff (A-6) | 557.1 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | 21 | | | | | | | | | | | |
| | | | | 26 | | | | | | | | | | | |
| CLAY LOAM-gray-very stiff to hard (A-6) | | | | 16 | | | | | | | | | | | 124 |
| | | | | 17 | | | | | | | | | | | |
| | | | | -65 | 23 | 3.8B | 13 | | | | | | | | |
| SANDY LOAM-gray-dense to very dense (A-2) | | | | | | | | | | | | | | | |
| | | | | 22 | | | | | | | | | | | |
| | | | | 506" | | | | | | | | | | | 110 |
| | | | | -50 | | NP | 10 | | | | | | | | |
| | | | | 529.1 | -70 | | 3.7B | 10 | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | 6 | | | | | | | | | | | |
| | | | | 12 | | | | | | | | | | | |
| CLAY LOAM-gray-very stiff to hard (A-6) | | | | -55 | 18 | 4.25B | 21 | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | 7 | | | | | | | | | | | |
| | | | | 10 | | | | | | | | | | | |
| | | | | -60 | 12 | 2.7B | 23 | | | | | | | | |

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NR-No Recovery

BORING LOGS 1
STRUCTURE NO. 016-1307

TYLIN INTERNATIONAL

| DESIGNED - | REVISIONS | |
|-------------------|-----------|------|
| | NAME | DATE |
| CHECKED - AMD, | | |
| DRAWN - | | |
| CHECKED - AMD, | | |
| DATE - 03/25/2011 | | |

| | | | | | |
|---|--------------------|--------------------|--------|--------------|-----------|
| SHEET NO. 8 | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 55 | 0711.2R & 1011.1BR | COOK | 741 | 600 |
| 11 SHEETS | CONTRACT NO. 60999 | | | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | | |

4/28/2011 p:\01345\structure\02 Central Ave. 016-0724\155-4br1.dgn 1:30:02 PM