

BORING NO. AR-097 (2 OF 2)

BORING NO. AR-098 (1 OF 2)

BORING NO. AR-098 (2 OF 2)

BORING LOG AR-097 Page 2 of 2

Wang Engineering, INC.
Client: American Consulting Engineers
Project: FAI 80/94, I-294 to US 41
Location: s13 T36N R10W & s29 R15E T36N

Datum: NGVD
Elevation: 189.75 m
North: 545302.39 m
East: 367730.65 m
Station: 8+328.83
Offset: 19.63 RT

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Wang Engineering, INC.
Client: American Consulting Engineers
Project: FAI 80/94, I-294 to US 41
Location: s13 T36N R10W & s29 R15E T36N

Datum: NGVD
Elevation: 190.07 m
North: 545294.46 m
East: 367750.08 m
Station: 8+349.8
Offset: 19.61 RT

BORING LOG AR-098 Page 2 of 2

Wang Engineering, INC.
Client: American Consulting Engineers
Project: FAI 80/94, I-294 to US 41
Location: s13 T36N R10W & s29 R15E T36N

Datum: NGVD
Elevation: 190.07 m
North: 545294.46 m
East: 367750.08 m
Station: 8+349.8
Offset: 19.61 RT

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | N Values (blw/150 mm) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | N Values (blw/150 mm) | Moisture Content (%) |
|------------------------|---|------------|------------|-----------------------|----------------------|------------------------|---|------------|------------|-----------------------|----------------------|
| 189.4 | 355-mm thick ASPHALT --PAVEMENT-- | | | | | 189.4 | 355-mm thick ASPHALT --PAVEMENT-- | | | | |
| | Gray CRUSHED STONE --BASE COURSE-- | | | | | | Gray CRUSHED STONE --BASE COURSE-- | | | | |
| | Stiff to hard, brown and gray SILTY CLAY --FILL-- | | | | | | Stiff to hard, brown and gray SILTY CLAY --FILL-- | | | | |
| | | 16 | 18 | 4 5 6 | 220 B | 16 | | 16 | 18 | 4 5 6 | 220 B |
| | | 17 | | | | | | 17 | | | |
| | | 18 | 19 | 4 5 6 | 194 B | 18 | | 18 | 19 | 4 5 6 | 194 B |
| | | 19 | | | | | | 19 | | | |
| | | 20 | 20 | 3 6 7 | 251 B | 20 | | 20 | 20 | 3 6 7 | 251 B |
| | | 21 | 21 | 7 9 12 | 330 B | 21 | | 21 | 21 | 7 9 12 | 330 B |
| | | 22 | | | | | | 22 | | | |

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | N Values (blw/150 mm) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | N Values (blw/150 mm) | Moisture Content (%) |
|------------------------|---|------------|------------|-----------------------|----------------------|------------------------|---|------------|------------|-----------------------|----------------------|
| 189.7 | 355-mm thick ASPHALT --PAVEMENT-- | | | | | 189.7 | 355-mm thick ASPHALT --PAVEMENT-- | | | | |
| | Gray CRUSHED STONE --BASE COURSE-- | | | | | | Gray CRUSHED STONE --BASE COURSE-- | | | | |
| | Stiff to hard, brown and gray SILTY CLAY --FILL-- | | | | | | Stiff to hard, brown and gray SILTY CLAY --FILL-- | | | | |
| | | 8 | 11 | 6 7 8 | 290 S | 8 | | 8 | 11 | 6 7 8 | 290 S |
| | | 9 | | | | | | 9 | | | |
| | | 10 | 12 | 6 9 9 | 447 B | 10 | | 10 | 12 | 6 9 9 | 447 B |
| | | 11 | | | | | | 11 | | | |
| | | 12 | 13 | 6 8 8 | 287 P | 12 | | 12 | 13 | 6 8 8 | 287 P |
| | | 13 | | | | | | 13 | | | |
| | | 14 | 14 | 3 4 5 | 230 B | 14 | | 14 | 14 | 3 4 5 | 230 B |
| | | 15 | | | | | | 15 | | | |
| | | 16 | 15 | 6 7 8 | 400 B | 16 | | 16 | 15 | 6 7 8 | 400 B |
| | | 17 | | | | | | 17 | | | |
| | | 18 | 16 | 6 6 8 | 251 B | 18 | | 18 | 16 | 6 6 8 | 251 B |
| | | 19 | | | | | | 19 | | | |
| | | 20 | 17 | 3 4 4 | 142 B | 20 | | 20 | 17 | 3 4 4 | 142 B |
| | | 21 | | | | | | 21 | | | |
| | | 22 | 18 | 6 8 8 | 196 B | 22 | | 22 | 18 | 6 8 8 | 196 B |
| | | 23 | | | | | | 23 | | | |

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | N Values (blw/150 mm) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | N Values (blw/150 mm) | Moisture Content (%) |
|------------------------|---|------------|------------|-----------------------|----------------------|------------------------|---|------------|------------|-----------------------|----------------------|
| 189.8 | Very stiff to hard, brown and gray CLAY | | | | | 189.8 | Very stiff to hard, brown and gray CLAY | | | | |
| | | 16 | 19 | 2 3 3 | 103 B | 16 | | 16 | 19 | 2 3 3 | 103 B |
| | | 17 | | | | | | 17 | | | |
| | | 18 | 20 | 3 5 6 | 290 B | 18 | | 18 | 20 | 3 5 6 | 290 B |
| | | 19 | | | | | | 19 | | | |
| | | 20 | 21 | 4 6 6 | 322 B | 20 | | 20 | 21 | 4 6 6 | 322 B |
| | | 21 | | | | | | 21 | | | |
| | | 22 | 22 | 6 7 8 | 354 B | 22 | | 22 | 22 | 6 7 8 | 354 B |
| | | 23 | | | | | | 23 | | | |
| | | 24 | 24 | 9 14 16 | 879 B | 24 | | 24 | 24 | 9 14 16 | 879 B |
| | | 25 | | | | | | 25 | | | |
| | | 26 | 25 | 8 13 16 | 574 B | 26 | | 26 | 25 | 8 13 16 | 574 B |
| | | 27 | | | | | | 27 | | | |
| | | 28 | | | | | | 28 | | | |
| | | 29 | | | | | | 29 | | | |
| | | 30 | | | | | | 30 | | | |

GENERAL NOTES

Begin Drilling 05-07-2002 Complete Drilling 05-07-2002

Drilling Contractor TSC Drill Rig CME 75

Driller C&A Logger E. Datz Checked by B. Fugiel

Drilling Method Mud Rotary; Grouted after final water reading

WATER LEVEL DATA

While Drilling

At Completion of Drilling

Time After Drilling 24 hours

Depth to Water 0.30 m

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

GENERAL NOTES

Begin Drilling 05-16-2002 Complete Drilling 05-16-2002

Drilling Contractor TSC Drill Rig CME 75

Driller C&A Logger H. Subail Checked by B. Fugiel

Drilling Method Mud Rotary; Grouted upon completion

WATER LEVEL DATA

While Drilling

At Completion of Drilling

Time After Drilling -- hours

Depth to Water -- m

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

GENERAL NOTES

Begin Drilling 05-16-2002 Complete Drilling 05-16-2002

Drilling Contractor TSC Drill Rig CME 75

Driller C&A Logger H. Subail Checked by B. Fugiel

Drilling Method Mud Rotary; Grouted upon completion

WATER LEVEL DATA

While Drilling

At Completion of Drilling

Time After Drilling -- hours

Depth to Water -- m

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

| | |
|----------|-----|
| DESIGNED | MJW |
| CHECKED | KFA |
| DRAWN | MJB |
| CHECKED | GSP |

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41

BORING LOGS (3 OF 6)
SECTION 2626.2-R-1
LAKE COUNTY, INDIANA
STATION 8+268.572 TO STATION 8+445.954
STRUCTURE NO. 016-W857

DATE 07/05

AMERICAN
CONSULTING ENGINEERS