| ROUTE No. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| F.A.P. 827 | 12Z-3, 12BR | WABASH, IL GIBSON, IN | 158 | 110 |
| STA. | | TO STA. | | |
| F.H.W.A. REGION | | ILLINOIS | PROJECT | |

BRIDGE SHEET S94 OF S114

CONTRACT 94450

## Bore Log

Sheet 1 of 2

Date 4/12-15/2002

| | | | |
|---|---|---|---|
| PROJECT | FAP 827 | DESCRIPTION | Wabash River Crossing |
| ROUTE | IL Rt. 15/IN Rt. 64 | LOCATION | T1S, R12W, Section 26, SW 1/4 |
| SECTION | 12BR, 12Z-3 | DRILL METHOD | CME 55/HW & NW Casing/wash bore |
| COUNTY | Wabash - IL / Gibson - IN | HAMMER TYPE | Automatic Hammer/Cathead |
| STRUCTURE NO. | Exist. 093-0014 Prop. 093-0021 | Drilled By | Harriss Drilling |
| | | Checked By | SCI |

| | |
|---|---|
| Boring No.: | B-106 |
| Station: | 1031+09 |
| Offset: | 5' Left |
| Barge Deck El. | 390.18 |
| Mudline El. | 366.68 |

Surface Water Elevation: 385.68
Groundwater Elevation
First Encountered: N/A
Upon Completion: N/A
After 24 Hours:N/A /Collapse:N/A
Mud Rotary Start Elevation: 351.68

| Description | Depth (ft) El. | N | Qu t/sf | W % |
|---|---|---|---|---|
| Soft River SEDIMENT - El. 366.68 to El. 363.68 Due to the current, the top 3.0 feet of HW casing (4.5-inch O.D./4.0-inch I.D.) was pushed. An additional 1.5 feet of the HW casing was driven with the automatic hammer (23 blows/1.5 feet) | 363.68 | | | |
| Loose Brown Coarse to Fine SAND, trace Fine Gravel (Automatic Hammer) A-2 (determined by laboratory analysis) | 5 / 359.68 | 3, 2, 2 | -- | |
| No Recovery in SPT Sampler (catcher in SPT Sampler appeared to be intact) (Cathead) | 357.18 | 5, 6, 5 | -- | |
| Loose Gray and Brown Medium to Fine SAND, trace Fine Gravel (Automatic Hammer) A-2 | 10 / 355.18 | 2, 2, 2 | -- | |
| Medium Dense Gray Coarse to Fine SAND, little Fine Gravel and trace Coal (Cathead) A-2 | 352.18 | 5, 8, 12 | -- | |
| Medium Dense Gray Medium to Fine SAND, little Fine Gravel (Automatic Hammer) A-2 | 15 / 349.68 | 5, 7, 8 | -- | |
| Medium Dense Gray Coarse to Fine SAND, trace Fine Gravel (Cathead) A-2 | 347.18 | 8, 10, 10 | -- | |
| Loose Gray Coarse to Fine SAND, little Fine Gravel, trace Organics (bottom of sample) (Automatic Hammer) A-2 (determined by laboratory analysis) | 20 / 344.18 | 6, 5, 5 | -- | |
| Medium Dense Gray Coarse to Fine SAND, little Fine Gravel and trace Coarse Gravel (Cathead) A-2 | 342.18 | 9, 11, 9 | -- | |
| Medium Dense Gray Coarse to Fine SAND, little Fine Gravel (Automatic Hammer) A-2 | 25 / 339.68 | 4, 3, 3 | -- | |
| Medium Dense Fine GRAVEL, some Medium to Fine Sand A-1-a (determined by laboratory analysis) Gravelly during drilling from 26 to 29 feet (Cathead) | 337.18 | 7, 10, 9 | -- | |
| Medium Dense Gray and Brown Coarse to Fine SAND, some Fine Gravel (Cathead) A-1-a | 30 / 334.68 | 10, 11, 13 | -- | |
| Dense Gray Medium to Fine SAND, little Fine Gravel (Cathead) A-2 | 332.18 | 7, 16, 19 | -- | |
| Dense Gray and Brown Coarse to Fine SAND, little Fine Gravel (Cathead) A-2 | 35 | 20, 16, 16 | -- | |
| (Cathead) | | 13, 15, 19 | -- | |
| Gravelly during drilling from 39 to 40 feet | 326.68 | | | |
| Medium Dense Gray and Brown Fine to Coarse SAND, little Fine Gravel (Cathead) A-1-b | 40 | 8, 13, 12 | -- | |
| Harder drilling/gravelly from 41.5 to 42.5 feet | 323.68 | | | |
| Very Stiff, Gray, Moist CLAY, some Sand, trace Gravel (Cathead) A-7 | 321.68 | 12, 10, 9 | 0.50 P | 13.8 |

Standard Penetration Test (N-value) - Blows per foot to drive 2-inch O.D. split spoon sampler 12-inches with a 140# Hammer falling 30-inches. Failure Type: B-Bulge; S-Shear; P-Penetrometer Test; E-Estimated
Qu - Unconfined Compressive Strength (t/sf)
W - water content (percentage of oven dry weight - %)
AASHTO Designations are estimated unless otherwise noted and determined by laboratory analysis

## Bore Log

Sheet 2 of 2

Date 4/12-15/2002

| | | | |
|---|---|---|---|
| PROJECT | FAP 827 | DESCRIPTION | Wabash River Crossing |
| ROUTE | IL Rt. 15/IN Rt. 64 | LOCATION | T1S, R12W, Section 26, SW 1/4 |
| SECTION | 12BR, 12Z-3 | DRILL METHOD | CME 55/HW & NW Casing/wash bore |
| COUNTY | Wabash - IL / Gibson - IN | HAMMER TYPE | Automatic Hammer/Cathead |
| STRUCTURE NO. | Exist. 093-0014 Prop. 093-0021 | Drilled By | Harriss Drilling |
| | | Checked By | SCI |

| | |
|---|---|
| Boring No.: | B-106 |
| Station: | 1031+09 |
| Offset: | 5' Left |
| Barge Deck El. | 390.18 |
| Mudline El. | 366.68 |

Surface Water Elevation: 385.68
Groundwater Elevation
First Encountered: N/A
Upon Completion: N/A
After 24 Hours:N/A /Collapse:N/A
Mud Rotary Start Elevation: 361.68

| Description | Depth (ft) El. | N | Qu t/sf | W % |
|---|---|---|---|---|
| Dense Gray Fine SAND, some Clay (Cathead) A-3 | 14, 20, 26 | -- | | 20.5 |
| Hard, Gray, Moist CLAY, some Sand, trace Gravel (Cathead) A-7 | 316.68 / 50 | 4, 10, 31 | 1.90 S | 15.7 |
| At 53.5 feet, driller was losing mud - no circulation - lost 2/3 of 300 gallon tank before obtaining sample at 55 feet. (Cathead) | 55 | 14, 17, 22 | 2.77 S | 11.9 |
| At 58 feet, driller losing water - no circulation trace coal and interbeds of sand (Cathead) | 60 | 23, 47, 50/4.5" | 4.50 S | 12.2 |
| less sand (Cathead) | 65 | 17, 26, 28 | 3.42 S | 17.9 |
| Medium to Fine Sand on top of sample (Cathead) | 70 | 25, 21, 27 | 1.65 S | 14.9 |
| Very Dense Gray Fine SAND, some Clay and little Fine Gravel (Cathead) A-3 (determined by laboratory analysis) Gravel at bottom of SPT Sampler Shoe | 75 | 20, 47, 50/2.5" | 3.25 P, 50/2.5" | 14.1 |
| Hard, Gray, Relatively Dry, Clayey SHALE Harder to drill per drillers observation at 79 fe (Cathead) | 80 | 45, 50/1.5", 50/1.5" | | 10.7 |
| Boring terminated at 82.25 feet | 85 / 90 | | | |

Standard Penetration Test (N-value) - Blows per foot to drive 2-inch O.D. split spoon sampler 12-inches with a 140# Hammer falling 30-inches. Failure Type: B-Bulge; S-Shear; P-Penetrometer Test; E-Estimated
Qu - Unconfined Compressive Strength (t/sf)
W - water content (percentage of oven dry weight - %)
AASHTO Designations are estimated unless otherwise noted and determined by laboratory analysis

| | |
|---|---|
| DESIGNED | CDF |
| CHECKED | ADD |
| DRAWN | CDF |
| CHECKED | ADD |

benesch

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Job No. 3428

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 15/IN ROUTE 64
OVER WABASH RIVER PUBLIC WATERS
FAP 827 SECT 12Z-3, 12BR

*SOIL BORING LOGS*

SN: 093-0021 (IL)/9502700 (IN)
WABASH CO., IL.

STA. 1036+27
DATE: JUNE 15, 2007

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