E. R. Greifzu

C. L. Stork by J. J. Klay

Foundation Boring *

June 8, 1983

* FA Route 823 (Ill. 15)
Section 24BR-1
Wayne County
Pond Creek
Station 756+48.92
Job No. P-97-003-79

-0064

I am submitting to you this date the original and three (3) copies of each foundation boring log for the subject section.

JJK:jl

Attachment

FORM NO. B. D 137 REV 9-66

BRIDGE FOUNDATION BORING LOG

JOB NO.
PROJECT P-97-003-79
ROUTE FA 823 (ILL. 15)
SEC. 24BR-1
COUNTY WAYNE

BRIDGE POND CREEK
STA. 756+48.92

Date JUNE 2, 1983
Bored By R. D. METHENEY
Checked By J. J. KLAY

Boring No. 1, PIER NO. 1
Station 756+51.5
Offset 8.5' RT. ℄

Surface Water El. 407.6±
Groundwater El. at Completion --
After -- Hours --

Elevation	N	Qu t/s.f.	w (%)	Remarks
Ground Surface 407.30				
LOOSE, WET, MEDIUM GRAIN, SANDY LOAM TO SAND	5		19	
404.3				
STIFF, DAMP TO VERY DAMP, CLAY	10	1.1 S	26	
-5				
	10	1.4 S	24	
399.3				
MEDIUM, VERY DAMP, SANDY CLAY LOAM TO SANDY CLAY	10	0.9 S	22	
397.8				
MEDIUM, VERY DAMP, CLAY (ORGANIC WITH ODOR & WOOD)	6	0.7 S	36	
-10				
395.3				
SOFT, WET, CLAY (ORGANIC WITH ODOR)	4	0.3 B&S	29	
-15				
391.3				
SOFT TO MEDIUM, WET, CLAY (ORGANIC WITH ODOR)	5	0.5 S	33	
389.3				
MEDIUM, VERY DAMP, SANDY CLAY LOAM WITH ¼"± THICK SAND LENSES (ORGANIC WITH WOOD)	8	0.8 S	25	
-20				
386.3				
VERY DENSE, VERY MOIST, WEATHERED, SANDSTONE	*		8	
385.3				
* 2½" PENETRATION FOR 100 BLOWS				
NO RECOVERY - ESTIMATE VERY DENSE, SANDSTONE				
** ½" PENETRATION FOR 100 BLOWS	**			
-25				
*** 1/8" PENETRATION FOR 100 BLOWS				
380.8	***			
EXTENT OF EXPLORATION				
-30				
-35				
-40				
-45				

N – Standard Penetration Test – Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".

Qu – Unconfined Compressive Strength – t/sf

w – Water Content – percentage of oven dry weight – %.

Type failure:
B – Bulge Failure
S – Shear Failure
E – Estimated Value
P – Penetrometer

BRIDGE FOUNDATION BORING LOG

JOB NO. P-97-003-79
PROJECT
ROUTE FA 823 (ILL. 15)
SEC. 24BR-1
COUNTY WAYNE

BRIDGE POND CREEK
STA. 756+48.92

Date JUNE 6, 1983
Bored By R. D. METHENEY
Checked By J. J. KLAY

Boring No. 2, W. ABUT.
Station 756+90.5
Offset 7.5' LT. ℄

Surface Water El. ———
Groundwater El. at Completion 406.8
After 21 Hours 409.3

Elevation	N	Qu t/s.f.	w (%)	Description
417.8				Ground Surface
416.7				EXISTING CONCRETE & I-11 PAVEMENT (13")
	5	0.8 S	18	MEDIUM, DAMP, CLAY LOAM
414.8				
	10	1.3 S	20	STIFF, VERY MOIST, SILTY CLAY LOAM
-5 412.3				
	7		18	LOOSE, VERY MOIST, FINE GRAIN, CEMENTED, SANDY LOAM TO SAND
409.3				
	9	1.0 S	16	MEDIUM, VERY MOIST, LOAM
-10 407.3				WATER ENCOUNTERED AT ELEVATION 407.3
	6		21	LOOSE, WET, FINE GRAIN, CEMENTED, SANDY LOAM
404.8				
	7	0.7 S	25	MEDIUM, DAMP, CLAY
-15 402.3				
	9	1.3 S	26	STIFF, VERY DAMP, CLAY
400.8				
	6	0.7 S	20	MEDIUM, VERY DAMP, CLAY (CONSIDERABLE SAND CONTENT)
-20 397.3				
	10	1.2 S	26	STIFF, DAMP, CLAY
395.8				

Elevation	N	Qu t/s.f.	w (%)	Description
				MEDIUM, VERY DAMP TO WET, CLAY (ORGANIC WITH WOOD)
	5	0.6 S	29	
-25 391.8				
	20		17	MEDIUM, VERY WEATHERED, SANDSTONE TO SANDY LOAM
390.3				
	*		10	VERY DENSE, MOIST TO VERY MOIST, SANDSTONE
-30				* 2" PENETRATION FOR 100 BLOWS
	**		8	** 1/2" PENETRATION FOR 100 BLOWS
384.3	**			NO RECOVERY
				EXTENT OF EXPLORATION
-35				
-40				
-45				

N – Standard Penetration Test – Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".

Qu – Unconfined Compressive Strength – t/sf

w – Water Content – percentage of oven dry weight – %.

Type failure:
B – Bulge Failure
S – Shear Failure
E – Estimated Value
P – Penetrometer

FORM NO. B.D 137 REV 9-80

BRIDGE FOUNDATION BORING LOG

JOB NO.

PROJECT P-97-003-79 BRIDGE POND CREEK Date JUNE 7, 1983

ROUTE FA 823 (ILL. 15) Bored By R. D. METHENEY

SEC. 24BR-1 STA. 756+48.92 Checked By J. J. KLAY

COUNTY WAYNE

Boring No. 3, E. ABUT.
Station 756+06.5
Offset 8' LT. ℄

Surface Water El. ——
Groundwater El. at Completion --
After -- Hours --

Description	Elevation	N	Qu t/s.f.	w (%)
Ground Surface	417.9			
EXISTING CONCRETE & I-11 PAVEMENT (13")	416.8			
MEDIUM, VERY MOIST, SILTY CLAY LOAM		5	0.8 S	19
	414.9			
SOFT, DAMP TO VERY DAMP, SILTY CLAY LOAM		5	0.5 S	21
	-5			
ORGANIC WITH ODOR	411.4		0.3S	26
STIFF, VERY MOIST, LOAM TO SILTY LOAM (ORGANIC WITH ODOR)	409.9	10	1.3S	18
VERY STIFF, VERY MOIST, CLAY	408.4	17	2.1 S	21
MEDIUM, DAMP TO VERY DAMP, SILTY CLAY	-10			
		8	0.7 S	24
		7	0.7 S	27
	-15			
	402.4			
MEDIUM, VERY DAMP, CLAY (CONSIDERABLE SAND CONTENT)		8	0.9 S	24
WATER ENCOUNTERED AT ELEVATION 399.9				
	398.4	8	0.9 S	24
SOFT, WET, CLAY (CONSIDERABLE SAND CONTENT)	-20			
	395.9	4	0.5 S	31
SOFT, WET, HIGH PLASTICITY, CLAY		4	0.4 S	26
	-25			
		4	0.4 S	26
	389.9			
MEDIUM, WET, FINE GRAIN, SANDY LOAM W/FRAGMENTS OF WEATHERED, SOFT, SANDSTONE		25		15
	387.9 -30			
VERY DENSE, VERY MOIST, SANDSTONE		*		12
* 2" PENETRATION FOR 100 BLOWS				
** ½" PENETRATION FOR 100 BLOWS				
	-35			
NO RECOVERY	381.6	**		
EXTENT OF EXPLORATION				
	-40			
	-45			

N – Standard Penetration Test – Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".

Qu – Unconfined Compressive Strength – t/sf

w – Water Content – percentage of oven dry weight – %

Type failure:
B – Bulge Failure
S – Shear Failure
E – Estimated Value
P – Penetrometer