

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 110	*	SCHUYLER	20	11
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	**	

\* 80-03108-00-BR  
\*\* BROS-169(35)

SHEET NO. 5  
5 SHEETS

Professional Service Industries

### GENERAL NOTES

**SAMPLE IDENTIFICATION**

The Unified Soil Classification System is used to identify the soil unless otherwise noted.

**SOIL PROPERTY SYMBOLS**

N: Standard "N" penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2 inch O.D. split- spoon.

Qu: Unconfined compressive strength, TSF.

Qp: Penetrometer value, unconfined compressive strength, TSF.

Mc: Water content, %.

LL: Liquid limit, %.

Pl: Plasticity index, %.

δd: Natural dry density, PCF.

▽: Apparent groundwater level at time noted after completion of boring.

**DRILLING AND SAMPLING SYMBOLS**

SS: Split-Spoon - 1 3/8" I.D., 2" O.D., except where noted.

ST: Shelby Tube - 3" O.D., except where noted.

AU: Auger Sample.

DB: Diamond Bit.

CB: Carbide Bit.

WS: Washed Sample.

**RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION**

TERM (NON-COHESIVE SOILS)	STANDARD PENETRATION RESISTANCE
Very Loose	0-4
Loose	4-10
Medium	10-30
Dense	30-50
Very Dense	Over 50

  

TERM (COHESIVE SOILS)	Qu - (TSF)
Very Soft	0 - 0.25
Soft	0.25 - 0.50
Firm (Medium)	0.50 - 1.00
Stiff	1.00 - 2.00
Very Stiff	2.00 - 4.00
Hard	4.00+

**PARTICLE SIZE**

Boulders	8 in. +	Coarse Sand	5mm-0.6mm	Silt	0.074mm-0.005mm
Cobbles	6 in.-3 in.	Medium Sand	0.6mm-0.2mm	Clay	-0.005mm
Gravel	3 in.-.5mm	Fine Sand	0.2mm-0.074mm		

PSI G-100-9 (2)

Professional Service Industries, Inc.  
480 North Street  
Springfield, IL 62704  
Telephone: 217-544-6663  
Fax: 217-544-6418

### LOG OF BORING B-1

Sheet 1 of 2

PSI Job No.: PSI Report No. 020-35026  
Project: T.R. 110 over Willow Creek  
Location: Brooklyn Township; Section 80-03108-00-BR  
Schuyler County  
G&B Project No. 02341

Drilling Method: Split Spoon  
Sampling Method: 3 1/4" Hollow Stem Auger  
Hammer Type: Automatic  
Boring Location: See remarks below

**WATER LEVELS**

▽ While drilling 11 Feet  
▽ Upon completion 6 Feet  
▽ One hour delay 5 Feet

Elevation (feet)	Depth (feet)	Graphic Log	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	Blows per foot 12-inches (N value)	Moisture %	STRENGTH, tsf	Additional Remarks
					Surface Elev.: 491.5 ft					
490	1		18	18	Brown clayey SILT, some sand, fine to medium, firm	ML	N=6	24	1.6	Qu = 1.6 tsf
485	2		18	18	Brown silty CLAY, trace fine sand, soft	CL	N=3	24	0.4	Qu = 0.4 tsf
480	3		18	18	Gray silty CLAY, little sand, fine to medium, soft	CL	N=2	33	0.6	Qu = 0.6 tsf
475	4		18	18	Brown fine to coarse SAND, loose	SP	N=5	24		
470	5		18	18	Gray sandy CLAY, soft	CL	N=1	27		
465	6		18	18	Gray silty CLAY, with some sand, fine to coarse, soft to hard	CL	N=3	17		
460	7		18	18	Gray SHALE, hard	SH	58/3*			

Completion Depth: 30.0 ft  
Date Boring Started: 5/7/03  
Date Boring Completed: 5/7/03  
Logged By: Ken Casey  
Drilling Contractor: PSI, Inc.

Sample Types:  
[X] Auger Cutting [X] Shelby Tube [X] Hand Auger  
[X] Split-Spoon [X] Rock Core

Remarks: Location: 135' east and 38' south of the southwest bridge abutment. Benchmark: Chisled square in SE bridge abutment @ Stat 9+80.58; Elev. 489.78

The stratification lines represent approximate boundaries. The transition may be gradual.

Professional Service Industries, Inc.  
480 North Street  
Springfield, IL 62704  
Telephone: 217-544-6663  
Fax: 217-544-6418

### LOG OF BORING B-1

Sheet 2 of 2

PSI Job No.: PSI Report No. 020-35026  
Project: T.R. 110 over Willow Creek  
Location: Brooklyn Township; Section 80-03108-00-BR  
Schuyler County  
G&B Project No. 02341

Drilling Method: Split Spoon  
Sampling Method: 3 1/4" Hollow Stem Auger  
Hammer Type: Automatic  
Boring Location: See remarks below

**WATER LEVELS**

▽ While drilling 11 Feet  
▽ Upon completion 6 Feet  
▽ One hour delay 5 Feet

Elevation (feet)	Depth (feet)	Graphic Log	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	Blows per foot 12-inches (N value)	Moisture %	STRENGTH, tsf	Additional Remarks
465	11		18	18	Gray SHALE, hard	SH	50/1*	11		
30	7		18	18	End of Boring at -29' below existing ground surface.	SH	50/1*	7		

Completion Depth: 30.0 ft  
Date Boring Started: 5/7/03  
Date Boring Completed: 5/7/03  
Logged By: Ken Casey  
Drilling Contractor: PSI, Inc.

Sample Types:  
[X] Auger Cutting [X] Shelby Tube [X] Hand Auger  
[X] Split-Spoon [X] Rock Core

Remarks: Location: 135' east and 38' south of the southwest bridge abutment. Benchmark: Chisled square in SE bridge abutment @ Stat 9+80.58; Elev. 489.78

The stratification lines represent approximate boundaries. The transition may be gradual.

FILE NAME = J:\02341\DRAWINGS\SN085-4307\SN0854307\_BOR.dgn  
PLOT SCALE = 50:0  
PLOT DATE = 6/30/2006  
PLOT OPERATOR = mitchell

ILLINOIS DEPARTMENT OF TRANSPORTATION

### BORING LOGS

TR 110 OVER WILLOW CREEK  
STA. 7+26.00  
SCHUYLER COUNTY  
S.N. 085-4307

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_  
DATE: 9/8/04

DESIGNED BY: LANDREY  
CHECKED BY: MATLUR  
DRAWN BY: TRELLO

COMPUTER FILE NO. SN0854307\_BOR  
PROJECT 02341  
4/7/06-MML

GREENE & BRADFORD, INC.  
OF SPRINGFIELD  
REGISTERED PROFESSIONAL ENGINEERS  
ILLINOIS LICENSE NO. 081-000001  
PROFESSIONAL ENGINEERING CORPORATION  
2017 W. STATE ST., SUITE 100, SPRINGFIELD, IL 62702-4400  
TEL: 217-544-6663 FAX: 217-544-6418

REVISIONS	
NAME	DATE