



BORING NO. B-01
DATE: 08-08-10
W. & A. FILE NO.: 5427
SHEET 1 OF 6

WHITNEY & ASSOCIATES
INCORPORATED
2408 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

PROJECT: SMITHVILLE ROAD BRIDGE OVER COOPERAS CREEK
LOCATION: Peoria County, Illinois
BORING LOCATION: 14' West of West Abutment, 5' South of North Parapet
ELEVATION: Fghl
SPRING TYPE: Hollow Stem Auger
WEATHER CONDITIONS: Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM: U.S.B.S.C.
SEAFLOOR WATER PENETRATION ELEVATION: (-)333.5 FT
GROUNDWATER ELEVATION: 579.6
GROUNDWATER ELEVATION AT 100 FT: -
BORING DISCONTINUED AT ELEVATION: 532.1
GROUNDWATER ELEVATION AT CORING ELEVATION: (-)220.2 FT

DEPTH (IN FEET)	DEPTH (IN FEET)	DEPTH (IN FEET)	DEPTH (IN FEET)	DEPTH (IN FEET)	DEPTH (IN FEET)	DEPTH (IN FEET)	DEPTH (IN FEET)
DESCRIPTION	DEPTH (IN FEET)	SAMPLE TYPE	N	Qc	Qv	D ₁	M _c
BITUMINOUS CONCRETE	11.5'						
Brown, CA-6 SAND AND GRAVEL	23'						
Loose, Brown, Fine- To Coarse-Grained SAND AND FINE-GRAINED GRAVEL WITH SOME SILTY CLAY (Fill)		SS	3				3
	575.6		4(7)				
Medium, Gray-Brown And Light Brown SILTY CLAY (Fill)		SS	2	0.0	0.8	92	28
	672.6		2(4)				
Stiff, Light Brown And Gray SILT (Fill)		SS	2	1.7	1.5		20
	670.1		4(7)				
Stiff, Gray-Brown, Light Brown And Dark Brown SILTY CLAY LOAM WITH SOME WOOD (Fill)		SS	3	1.4	1.2	101	16
	599.1		4(7)				
Medium, Gray-Brown And Dark Brown CLAY LOAM (Possible Fill)		SS	2	0.8	0.6		25
	565.6		2(4)				
Soft, Gray-Brown CLAY LOAM WITH SOME COARSE-GRAINED SAND (Possible Fill)		SS	2	0.7	0.5	96	24
	562.8		1(2)				
Medium, Light Brown And Gray CLAY LOAM		SS	1	1.1	0.8		22
	560.1		2(4)				
Medium, Light Brown And Gray CLAY		SS	1	0.7	0.7	93	26
	557.6		2(4)				
Stiff, Dark Gray CLAY (Glacial Till)		SS	4	2.0	1.6		19
			5(9)				
			4				
			5	2.2	1.9	115	17
			6(11)				

N - BLOW COUNT PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPIN SAMPLE
ST - SHELLY TUBE SAMPLE
Qc - CALIBRATED PENETROMETER READING - T.S.F. FALLING 30 INCHES
Qv - UNCONSOLIDATED COMPRESSION STRENGTH - T.S.F.
D₁ - NATURAL DRY DENSITY - P.C.F.
M_c - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING LOG
(CONTINUATION)
DATE: 08-08-10

BORING NO. B-01
PROJECT: Smithville Road Bridge Over Cooperas Creek
LOCATION: Peoria County, Illinois

SHEET 2 OF 6
W. & A. FILE NO. 5427

DESCRIPTION	DEPTH (IN FEET)	SAMPLE TYPE	N	Qc	Qv	D ₁	M _c
See Sheet 1 of 6	552.6		4				
Stiff, Dark Gray SILTY CLAY (Glacial Till)		SS	4	1.8	1.6		17
			5(9)				
		SS	4	1.5	1.3	113	18
			6(10)				
Very Dense, Dark Gray, Medium- To Coarse-Grained SAND AND FINE-GRAINED GRAVEL WITH CONSIDERABLE SILTY CLAY	546.1						
	34	SS	65/6'				
Medium, Dark Gray And Gray SANDY CLAY AND NEAR CLAY SHALE	541.6						
	38						
		SS	3	2.0	1.4	111	17
			14				
			16(20)				
CAP ROCK	537.8						
Hard, Gray SANDSTONE	536.1						
		SS	99/6'	4.5+			11
AUSER REFUSAL AT (-)47.5 FEET	532.1						
EXPLORATORY BORING DISCONTINUED							
	50						
	54						

N - BLOW COUNT PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPIN SAMPLE
ST - SHELLY TUBE SAMPLE
Qc - CALIBRATED PENETROMETER READING - T.S.F. FALLING 30 INCHES
Qv - UNCONSOLIDATED COMPRESSION STRENGTH - T.S.F.
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PEORIA, ILLINOIS

FILE NAME : #FILES#	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	SOIL BORING LOGS	F.A.S. RTE. 1381	SECTION 10-0005-03-BR	COUNTY PEORIA	TOTAL SHEETS 55	SHEET NO. 38	
USER NAME : IEI	DRAWN - AJP	REVISED -			SCALE: NTS	SHEET NO. 16 OF 18 SHEETS	STA.	TO STA.	CONTRACT NO. 89464	
PLOT SCALE : 2,000' / in.	CHECKED - MDC	REVISED -			ILLINOIS FED. AID PROJECT					
PLOT DATE : 10/29/2012	DATE - 11/02/2012	REVISED -								