


**BORING NO. B-03**  
 DATE 09-08-10  
 W.S.A. FILE NO. 5427  
 SHEET 5 OF 6



**WHITNEY & ASSOCIATES**  
INCORPORATED  
 2406 West Nebraska Avenue  
 PEORIA, ILLINOIS 61604

**BORING LOG**

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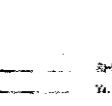
PROJECT **SMITHVILLE ROAD BRIDGE OVER COOPERAS CREEK** LOCATION **Peoria County, Illinois**  
 BORING LOCATION **S' East of East Abutment; E' North of South Parapet** DT. LOG BY **Fehl**  
 BORING TYPE **Hollow Stem Auger** WEATHER CONDITIONS **Partly Cloudy & Mild**  
 SOIL CLASSIFICATION SYSTEM **U.S.P.S.C.** BOREHOLE WATER ENCOUNTERED AT ELEVATION **(-)19.0 FT.**  
 ORIGINAL SURFACE ELEVATION **577.7** GROUND WATER ELEVATION AT **19.0**  
 BORING DISCONTINUED AT ELEVATION **530.7** GROUND WATER ELEVATION AT COMPLETION **(-)14.5 Ft.**

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qc	D <sub>50</sub>	M <sub>c</sub>
DIR AND CHIPS	2'						
BITUMINOUS CONCRETE	11'						
Brown CA-6 GRAVEL	21'						
Loose, Brown And Dark Brown, Fine- To Coarse-Grained SAND And Fine-Grained GRAVEL (Fill)	573.7	04 SS	3 3(0)	-	-	-	3
Stiff, Light Brown SILTY CLAY (Fill)		04 SS	3 3 4(7)	2.3	1.8	101	18
570.7							
Medium, Dark Brown SILTY CLAY LOAM (Fill)		08 SS	2 2 2(4)	0.9	0.8	-	26
568.2							
Medium, Brown And Dark Brown SILTY CLAY (Fill)							
666.7	12	SS	2 2 3(6)	1.1	0.9	96	25
Medium, Brown And Gray-Brown SANDY CLAY With Trace Of Fine-Grained Gravel (Fill)		SS	2 2 2(4)	0.7	0.6	-	17
663.2							
Loose, Light Brown, Fine- To Medium-Grained SAND		SS	2 2 2(4)	-	-	-	9
660.7	16						
Loose, Gray Brown, Medium- To Coarse-Grained SAND And Fine-Grained GRAVEL With Trace Of Silty Clay		SS	2 2 3(5)	-	-	-	14
658.2							
Stiff, Brown And Gray-Brown CLAY (Glacial Till)		20 SS	2 3 4(7)	1.3	1.1	112	21
		SS	3 4 5(9)	1.4	1.2	-	20
	24	SS	3 4 5(10)	1.2	1.1	113	20

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES  
 SS - SPLIT SPOON SAMPLE  
 ST - Shelby Tube Sample  
 Qp - CALIBRATED PENETROMETER READING - T.S.F.  
 Qc - UNCONFIRMED COMPRESSION STRENGTH - T.S.F.  
 D<sub>50</sub> - NATURAL DRY DENSITY - P.C.F.  
 M<sub>c</sub> - NATURAL MOISTURE CONTENT %

WHITNEY & ASSOCIATES  
PEORIA, ILLINOIS

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 SHEET 6 OF 6



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**BORING LOG**  
(CONTINUATION)

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PROJECT **Smithville Road Bridge Over Cooperas Creek** LOCATION **Peoria County, Illinois**  
 BORING LOCATION **S' East of East Abutment; E' North of South Parapet** DT. LOG BY **Fehl**  
 BORING TYPE **Hollow Stem Auger** WEATHER CONDITIONS **Partly Cloudy & Mild**  
 SOIL CLASSIFICATION SYSTEM **U.S.P.S.C.** BOREHOLE WATER ENCOUNTERED AT ELEVATION **(-)19.0 FT.**  
 ORIGINAL SURFACE ELEVATION **577.7** GROUND WATER ELEVATION AT **19.0**  
 BORING DISCONTINUED AT ELEVATION **530.7** GROUND WATER ELEVATION AT COMPLETION **(-)14.5 Ft.**

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qc	D <sub>50</sub>	M <sub>c</sub>
See Sheet 5 of 6	600.7						
Medium, Dark Gray SILTY CLAY (Glacial Till)		SS	3 4(7)	1.0	0.9	-	19
548.2							
Stiff, Dark Gray SILTY CLAY (Glacial Till)	30	SS	4 5 6(11)	1.3	1.2	115	17
544.7							
Jane's, Dark Gray, Fine- To Coarse-Grained SAND With Considerable Silty Clay And Some Fine-Grained Gravel	34	SS	12 17 24(41)	-	-	-	16
540.2							
Dense, Dark Gray, Medium- To Coarse Grained SAND And Fine-Grained GRAVEL With Considerable Silty Clay	38						
536.7							
Medium, Brown And Gray-Brown SANDY CLAY With Trace Of Fine-Grained Gravel (Fill)	42	SS	15 18 25(43)	-	-	-	18
534.7							
Hard, Gray SHALE							
46		SS	71/3"	4.5+	-	-	9
AUGER REFUSAL AT (-)47.0 FEET	532.7						
EXPLORATORY BORING DISCONTINUED							
	50						
	54						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES  
 SS - SPLIT SPOON SAMPLE  
 ST - Shelby Tube Sample  
 Qp - CALIBRATED PENETROMETER READING - T.S.F.  
 Qc - UNCONFIRMED COMPRESSION STRENGTH - T.S.F.  
 D<sub>50</sub> - NATURAL DRY DENSITY - P.C.F.  
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