

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAGE 1 of 2

SOIL BORING LOG

DATE 10/10/08
LOGGED BY DR
GSI JOB No. 08015

JOB NUMBER P-91-186-08

ROUTE I-294 & I-57 DESCRIPTION I-57 & I-294 Interchange Improvements (PTB 146, Item 1)

SECTION - LOCATION I-57 Over I-294

COUNTY Cook DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 016-1096 & 016-1097
Station -

BORING NO. I57-I294 B-10
Station: 259+88
Offset: 71.0' Right
Ground Surface Elev. 635.4

DEPTH (ft)	BULGE (in)	SHEAR (tsf)	UNIT WEIGHT (%)	DESCRIPTION	DEPTH (ft)	BULGE (in)	SHEAR (tsf)	UNIT WEIGHT (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elevation:
									n/a	n/a	n/a
0				17.0" ASPHALT, 2.0" CRUSHED STONE	0				n/a	n/a	n/a
3				CLAY to CLAY LOAM- dark brown & gray- very stiff to hard (A-6) Fill	3						
6	3.5P	14			7	4.6B	17				
3					3						
3			113		6						
-5	5	4.3B	16		-25	7	2.0P	17			
6				CLAY to CLAY LOAM- dark brown & gray- very stiff to hard (A-6) Fill	5						
6					8			108			
6	4.5+P	14			11	2.1B	18				
3					7						
-10	5	4.5+P	15		-30	13	NP	13			
4				SILTY LOAM to LOAM-gray- medium dense to dense (A-4)	4						
5					5						
5	2.25P	15			5						
45					3						
-15	6	2.0P	21		-35	6	NP	25			
3				SANDY LOAM with Fractured Rock- gray-dense to very dense (A-2)	3						
5					4						
7	2.2B	18			24						
3					27						
-20	6	5.0B	14		-55	24	NP	10			
				11							
5				20							
-20	6	5.0B	14	-60	21	NP	12				

595.4

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

PAGE 2 of 2

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									n/a	n/a	n/a
				...continued					n/a	n/a	n/a
				SILTY LOAM with Fractured Rock- gray-very dense (A-4)	3						
					7	4.6B	17				
					3						
					6						
					-25	7	2.0P	17			
				SANDY LOAM with Fractured Rock- gray-dense to very dense (A-2)	5						
					8			108			
					11	2.1B	18				
					7						
					-30	13	NP	13			
				End Of Boring @ -70.0' Straight Flight Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10.0' 4.0"* Casing Used 60.0' 3.0"* Casing Used	4						
					5						
					5						
					3						
					-35	6	NP	25			
				Run 1 (-60.5' to -70.0') Silurian System Niagaran Series Dolomite Light gray to gray with horizontal bedding. Fine grained with some varving. Horizontal fractures -61.3', -61.5', -61.9', -62.4', -62.5', -63.2', -63.3', -64.1', -64.4', -65.1', -65.6' & -69.5'. Recovery = 98.9% R.Q.D. = 88.4% 100.0% Water Loss	30						
					306"						
					-50	NP	11				
					583.4						
					24						
				27							
				-55	24	NP	10				
				42							
				504"							
				-60	NP	9					
				574.9							
				565.4							
				570							
				575							
				-75							
				80							

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The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

BORING LOGS 3
S.N. 016-1252

TYLIN INTERNATIONAL	DESIGNED - DY	REVISIONS		SHEET NO. 59	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	CHECKED - AD,LS	NAME	DATE			57	1414.2B	COOK	516	372
	DRAWN - DY,EI					CONTRACT NO. 60J27				
	CHECKED - LS,SP,PDF									
DATE - 03/18/10			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

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