

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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ROCK CORE LOG

DATE 10/10/08

LOGGED BY DR

JOB NUMBER P-91-186-08 GSI JOB No. 08015

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 CORING METHOD Rotary Wash

STRUCT. NO. 016-1096 & 016-1097 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft

Station - Core Diameter 2.0 in

BORING NO. I57-I294 B-10 Top of Rock Elev. 574.9

Station: 259+88 Begin Core Elev. 574.9

Offset: 71.0' Right

Ground Surface Elev. 635.4

D E P T H H S Q T	C O R E D I A M E T E R (in)	R E C O R D I N G Q U A N T I T Y (%)	R E C O R D I N G M O D E (%)	R E C O R D I N G M O D E (%)	S T R E N G T H (min ft)	S T R E N G T H (tsf)
574.9	1	98.9	88.4	100.0	60.5	
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 -61.9', -61.5', -61.9', -62.4', -62.5', -63.2', -63.3', -64.1', -64.4', -65.1', -65.6' & -69.5'.						
100.0% Water Loss						
-65.5						
-70.5						

Color pictures of the cores Yes Cores will be stored for examination for
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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SOIL BORING LOG

DATE 11/3/2008

LOGGED BY RJ

JOB NUMBER P-91-186-08 GSI JOB No. 08015

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

SECTION - LOCATION I-57-I-294 RAMP B Fly-Over Bridge

COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. -

Station -

BORING NO. RMP B B-8

Station: 258+24

Offset: 85.0' Left

Ground Surface Elev. 614.1

D E P T H H S Q T	B L O C K P O S I T I O N H S Q T	U N D E R S O I L H S Q T	M O D E S	S U R F A C E W A T E R E L E V . (ft)	S T R E A M B E D E L E V . (ft)	D B U M H S Q T	B L O C K P O S I T I O N H S Q T	U N D E R S O I L H S Q T	M O D E S
				593.6					
10.0" ASPHALT, 26.0" CRUSHED STONE-medium dense									
17									
9									
611.1		NP	5	591.1					
CLAY-gray-stiff (A-6) Wet									
4									
6									
611.1		4.0P	17	591.1					
CLAY-brown & gray-hard (A-6) Fill									
5									
12									
15		6.9B	15	586.1					
SILT-gray-dense (A-4)									
5									
12									
15		6.9B	15	586.1					
CLAY-brown & gray-hard (A-6) Fill									
5									
8									
10		4.0P+	19	603.6					
SILTY CLAY LOAM-brown & gray- loose to medium dense (A-4)									
3									
5		4.0P	23	598.6					
SILTY LOAM-gray-loose (A-4)									
3									
6									
596.1				575.1					
SAND-gray-loose (A-3)									
3									
2									
20		NP	22	575.1					
Drillers Observation: Apparent Bedrock.									

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

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Ground Surface Elev. 614.1

D E P T H H S Q T	B L O C K P O S I T I O N H S Q T	U N D E R S O I L H S Q T	M O D E S	S U R F A C E W A T E R E L E V . (ft)	S T R E A M B E D E L E V . (ft)	D B U M H S Q T	B L O C K P O S I T I O N H S Q T	U N D E R S O I L H S Q T	M O D E S
				593.6					
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SILTY LOAM-gray-loose (A-4)									
3									
6									
596.1				575.1					
SAND-gray-loose (A-3)									
3									
2									
20		NP	22	575.1					
Drillers Observation: Apparent Bedrock.									

Run 1 (-42.0' to -51.0')
Silurian System Niagaran Series Dolomite

Light gray mottled gray with horizontal bedding. Fine grained with some varving. Horizontal fractures @ -42.4', -42.6', -42.8', -43.2', -47.5' & -47.8'.

Recovery = 99.4%
R.Q.D. = 87.2%

End Of Boring @ -51.0'
Hollow Stem Augers To -10.0'
Rotary Drilling To Completion
CME Automatic Hammer
10.0' of 4.0" Casing Used

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NR-No Recovery

BORING LOGS 11
STRUCTURE NO. 016-1251

TYLIN INTERNATIONAL	DESIGNED - JMA	REVISIONS		SHEET NO. 67	F.A.I RTE. 57	SECTION 1414.2B	COUNTY COOK	TOTAL SHEETS 516	SHEET NO. 312
	CHECKED - SP,	NAME	DATE						
	DRAWN - JMA								
	CHECKED - SP,PDF								
	DATE - 03/18/10								
68 SHEETS						CONTRACT NO. 60J27			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									

P:\602540(57-294)\STRUCTURAL\I-57 OVER I294\0161251-60J27-067-BORING11.dgn 3/17/2010