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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1602	74 B-1	COOK	34	22
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62418				

Page 1 of 1
Date 12/31/03

ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

ROUTE FAU 1602 DESCRIPTION 147th Street over Boca Rio Ditch, D-9-125-02

SECT. 016-0571(existing) DRILLED BY TSC/1-57,409

COUNTY Cook LOCATION SEC of Culvert S. B., TWP. 36N, RNC. 15E

Boring No. <u>B-1</u>	D	B	Surface Water Elev.	D	B
Station <u>9+82</u>	E	L	Groundwater Elev.	E	L
Offset <u>24.00 FT LT</u>	P	O	when drilling <u>654.4</u>	P	O
	T	W	at Completion <u>652.3</u>	T	W
	Q	U	after _____	Q	U
Surface Elev. <u>657.40</u> ft	H	S		H	S

Very stiff to stiff dark brown and black CLAY, moist to very moist A-7-6	2.25	29.7	
652.90	3	28.0	
	1.5	24.0	
Stiff brown and gray CLAY, very moist to moist A-6/A-7-6	2	18.5	
649.40	4		
Medium dense gray clayey SILT, trace gravel, moist A-4	2.0	17.2	
646.30			
Very loose gray SILTY LOAM, very moist A-4	1.0	14.4	
644.00	2		
Loose grayish-brown SILTY LOAM, moist A-4	3.0	15.2	
643.40	4		
	50/7	3.0	

CME 150 ATV Drill Rig (#53)
CME Automatic Hammer
3.25" (83 mm) D HSA

Cores Run 14.0 to 24.0 feet
Recovery = 100%
RSD = 52%

Zones of Severe Fracturing
14.0-15.3 feet
15.3-17.2 feet
18.0-20.0 feet

End of Rock Core 24.0 feet

SPT, (N) = Sum of last two blow values in sample. (Q) B-Bulge S-Shear P-Penetration Test
B-Stations, Depths, Offset, and Elevations are in Feet

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Date 12/31/03

ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

ROUTE FAU 1602 DESCRIPTION 147th Street over Boca Rio Ditch, D-9-125-02

SECT. 016-0571(existing) DRILLED BY TSC/1-57,409

COUNTY Cook LOCATION SEC of Culvert S. B., TWP. 36N, RNC. 15E

Boring No. <u>B-2</u>	D	B	Surface Water Elev.	D	B
Station <u>9+87</u>	E	L	Groundwater Elev.	E	L
Offset <u>19.00 FT RT</u>	P	O	when drilling <u>654.1</u>	P	O
	T	W	at Completion <u>653.6</u>	T	W
	Q	U	after _____	Q	U
Surface Elev. <u>657.00</u> ft	H	S		H	S

FILL - Brown and dark brown CLAY LOAM, little black clay, very moist A-6	1.25	18.8	
654.00			
Medium stiff to stiff gray SANDY LOAM, very moist A-6/S	1.0	20.1	
651.60			
Gray silty SAND and GRAVEL, saturated A-1-b	13.0		
649.00			
Hand Auger Refusal at 8.0 feet			
649.00			

Boring Performed by Hand Auger methods
Samples taken with split-spoon sampler

SPT, (N) = Sum of last two blow values in sample. (Q) B-Bulge S-Shear P-Penetration Test
B-Stations, Depths, Offset, and Elevations are in Feet

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Date 2/9/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

ROUTE FAU 1602 DESCRIPTION 147th Street over Boca Rio Ditch, D-9-125-02

SECT. 016-0571(existing) DRILLED BY TSC/1-57,409

COUNTY Cook LOCATION SEC of Culvert S. B., TWP. 36N, RNC. 15E

Boring No. <u>B-3</u>	D	B	Surface Water Elev.	D	B
Station <u>10+14</u>	E	L	Groundwater Elev.	E	L
Offset <u>24.00 FT LT</u>	P	O	when drilling <u>653.3</u>	P	O
	T	W	at Completion <u>653.5</u>	T	W
	Q	U	after _____	Q	U
Surface Elev. <u>657.30</u> ft	H	S		H	S

FILL - Black SANDY LOAM, some crushed limestone gravel, very moist A-2-4/A-4	25.0		
656.30			
Medium stiff black and dark brown CLAY LOAM, some organic topsoil, trace root seams, very moist A-7-6	0.5	36.7	
650.80			
Gray silty SAND and GRAVEL, saturated A-1-b	0.5	41.4	
647.30			
Gray clayey SILT, moist A-4	13.9		
647.30			
Gray silty SAND, trace gravel, wet A-1-b	0.6	5.6	
644.30			
644.30			
Refusal at 13.0 feet on probable rock surface.			
644.30			

GeoProbe on ATV Carrier (#294)
GP = Continuous 1.5' Diam. GeoProbe Samples

SPT, (N) = Sum of last two blow values in sample. (Q) B-Bulge S-Shear P-Penetration Test
B-Stations, Depths, Offset, and Elevations are in Feet

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Date 2/9/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

ROUTE FAU 1602 DESCRIPTION 147th Street over Boca Rio Ditch, D-9-125-02

SECT. 016-0571(existing) DRILLED BY TSC/1-57,409

COUNTY Cook LOCATION SEC of Culvert S. B., TWP. 36N, RNC. 15E

Boring No. <u>B-4</u>	D	B	Surface Water Elev.	D	B
Station <u>9+86</u>	E	L	Groundwater Elev.	E	L
Offset <u>24.00 FT RT</u>	P	O	when drilling <u>650.7</u>	P	O
	T	W	at Completion <u>650.7</u>	T	W
	Q	U	after _____	Q	U
Surface Elev. <u>655.70</u> ft	H	S		H	S

Black clayey TOPSOIL	654.90		
Stiff dark gray and black CLAY LOAM, occasional sand seams, very moist and A-2	31.9		
652.70			
Stiff brown and gray CLAY, moist to very moist A-6	1.3	25.6	
649.20			
Medium stiff gray SILTY LOAM, occasional sand seams, very moist A-4/A-6	0.5	20.2	
648.20			
Gray SILT, very moist A-4	19.9		
647.20			
Gray SILTY LOAM and SILT, trace gravel, very moist A-4	0.5	14.9	
645.70			
645.70			

Refusal at 10.0 feet on probable rock surface.

GeoProbe on ATV Carrier (#294)
GP = Continuous 1.5' Diam. GeoProbe Samples

SPT, (N) = Sum of last two blow values in sample. (Q) B-Bulge S-Shear P-Penetration Test
B-Stations, Depths, Offset, and Elevations are in Feet

9/20/2006 H:\DOT\BRI\DC\124062\DESIGN\220F34-124062BL.DGN

SHEET S-3



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
147th STREET OVER BOCA RIO DITCH
F.A.U. ROUTE 1602, SECTION 74 B-1
COOK COUNTY
STRUCTURE NUMBER 016-2846

BORING LOGS

DRAWN BY: DLS
CHECKED BY: JLR

DATE: SEPTEMBER 2006

9-25-06