F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	764	750
STA. 88+60 (SB I-57) 1126+91 (SB FORD) TO STA. 1313+00 (SB RYAN)				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717, & 1818) R-5

62593

Illinois Department of Transportation
Division of Highways
AMERICAN GEOENGINEERING, INC.

SOIL BORING LOG

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Date 2/5/05

ROUTE F.A.I. I-94 / I-90 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.

SECTION _____ LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. _____
Station 87th Street

BORING NO. B87-1
Station 1252+24.65
Offset -3.53ft (SBDR)
Ground Surface Elev. -8.17 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion _____ ft
After ___ Hrs. _____ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 7"	-8.74				
Concrete, 8"	-9.42				
Sub Base, Gravel (FILL)	-9.92		6		
Very Stiff to Hard Gray SILTY CLAY LOAM			5	3.7	11.0
			5		
			6		
			5	6.3	12.0
	-13.17	-5	7		
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM			7		
			9	8.7	11.0
			10	B,S	
			7		
			11		9.0
		-10	13		
			9		
			11	7.0	11.0
			15	S	
			16		
			25		9.0
	-23.17	-15	30		
Very Dense Gray SILT			23		
			38		9.0
			40		
			14		
			24		9.0
	-28.17	-20	35		
Very Dense Gray SILTY LOAM			24		
			>50		9.0
	-31.17				
End of Boring					
		-25			
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
AMERICAN GEOENGINEERING, INC.

SOIL BORING LOG

Page 1 of 1

Date 2/5/05

ROUTE F.A.I. I-94 / I-90 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.

SECTION _____ LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. _____
Station 87th Street

BORING NO. B87-3
Station 1254+81.35
Offset -3.54ft (SBDR)
Ground Surface Elev. -9.76 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion _____ ft
After ___ Hrs. _____ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 4"	~~-10.09~~				
Concrete, 8"	-10.76				
Sub Base, Gravel (FILL)	-11.26		10		
Hard Gray SILTY CLAY LOAM			8	7.8	12.0
			8	B,S	
			17		
			7	4.7	14.0
	-14.76	-5	9	S	
Hard / Medium Dense Gray SILTY CLAY LOAM / SILTY LOAM			15		
			8	5.4	12.0
			10	S	
			10		
			10	9.3	12.0
	-19.76	-10	12	S	
Dense Gray SILT			10		
			20		12.0
	-22.26		22		
Dense to Very Dense Gray SILTY LOAM			18		
			20		9.0
		-15	21		
			16		
			27		8.0
			25		
			15		
			26		8.0
	-29.76	-20	32		
End of Boring					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

SHEET 61 OF 64

LEGEND

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

TY·LIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
SOIL BORINGS B87-1 & B87-3

SCALE: N.T.S. DRAWN BY: MPG
DATE: MARCH 1, 2006 CHECKED BY: JPM