STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2021-922PT.1-AC	COOK	460	248
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

62693

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Illinois Department of Transportation — SOIL BORING LOG (REZ-1, Page 1 of 2)

Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 1 of 2 — Date 3/11/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
SECTION (2021-922 PT 1,2&2122-921 PTI)R-4 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 016-W886 Station (Wall - R)
BORING NO. REZ-1 Station 111+82.89 Offset 1.81ft (WW) Ground Surface Elev. 20.74 ft
Surface Water Elev. ___ ft; Stream Bed Elev. ___ ft
Groundwater Elev.: First Encounter 5.7 ft▼; Upon Completion ___ ft; After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 2"	20.56				
Concrete, 11"	19.66				
Sub-Base and Sand, trace Gravel and Brick Chips (FILL)			24		
			11		
	17.74		10		
Loose to Medium Dense Brown, Fine SAND, trace Gravel (Possible Back Fill)			7		
			11		
		-5	8		
Btm/Ftg El 14.00			3		
			3		
			3		
			3		
			3		
		-10	4		
			6		
			5		
			7		
			8		
			8		
	5.74▼	-15	8		
Very Loose Gray SILTY LOAM			1		
			0		25.0
	3.24		1		
Stiff Gray CLAY			2		
			4	1.5	19.0
	0.74	-20	8	B	
Very Stiff Gray CLAY LOAM			4		
			6	2.8	13.0
			8	B	
			4		
			6	2.6	17.0
		-25	9	B	
			4		
			8	2.8	18.0
	-6.76		12	B	
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM			4		
			12	6.1	13.0
		-30	11	B	
			7		
			9	6.0	12.0
		-35	12	S	
			7		
			12	7.3	14.0
		-40	17	S	

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 — SOIL BORING LOG (REZ-1, Page 2 of 2)

Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 2 of 2 — Date 3/11/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
SECTION (2021-922 PT 1,2&2122-921 PTI)R-4 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 016-W886 Station (Wall - R)
BORING NO. REZ-1 Station 111+82.89 Offset 1.81ft (WW) Ground Surface Elev. 20.74 ft
Surface Water Elev. ___ ft; Stream Bed Elev. ___ ft
Groundwater Elev.: First Encounter 5.7 ft▼; Upon Completion ___ ft; After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM (continued)			7		
			14	8.0	11.0
		-45	18	S	
Possible Bed Rock @ 49'	-28.26		Ø50		
End of Boring		-50			
		-55			
		-60			

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 — SOIL BORING LOG (REZ-2, Page 1 of 2)

Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 1 of 2 — Date 3/11/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
SECTION (2021-922 PT 1,2&2122-921 PTI)R-4 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 016-W886 Station (Wall - R)
BORING NO. REZ-2 Station 112+56.11 Offset 1.55ft (WW) Ground Surface Elev. 20.70 ft
Surface Water Elev. ___ ft; Stream Bed Elev. ___ ft
Groundwater Elev.: First Encounter 5.7 ft▼; Upon Completion ___ ft; After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 2"	20.52				
Concrete, 9"	19.78				
Sub-Base and Sand, trace Gravel and Brick Chips (FILL)			19		
			12		
	17.70		5		
Loose to medium Dense Brown, Fine SAND (Possible Back Fill)			3		
			3		
		-5	4		
			2		
			3		
			3		
			2		
			4		
		-10	7		
Btm/Ftg El 9.00			9		
			4		
			8		
			6		
			6		
	5.70▼	-15	8		
Very Loose Gray SILTY LOAM			1		
			1		23.0
	3.20		1		
Stiff to Very Stiff Gray CLAY			3		
			5	1.8	18.0
		-20	9	B	
Stiff to Very Stiff Gray CLAY (continued)			3		
			5	3.2	17.0
	-1.80		7	B	
Very Stiff to Hard Gray CLAY LOAM			4		
			6	3.6	19.0
		-25	9	B	
			5		
			11	4.6	18.0
	-6.80		13	B	
Hard / Dense Gray SILTY CLAY LOAM / SILTY LOAM			11		
			21	6.0	13.0
		-30	12	S	
			5		
			7	6.9	13.0
		-35	11	S	
			8		
			13	8.6	13.0
		-40	12	S	

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 — SOIL BORING LOG (REZ-2, Page 2 of 2)

Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 2 of 2 — Date 3/11/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
SECTION (2021-922 PT 1,2&2122-921 PTI)R-4 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 016-W886 Station (Wall - R)
BORING NO. REZ-2 Station 112+56.11 Offset 1.55ft (WW) Ground Surface Elev. 20.70 ft
Surface Water Elev. ___ ft; Stream Bed Elev. ___ ft
Groundwater Elev.: First Encounter 5.7 ft▼; Upon Completion ___ ft; After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard / Dense Gray SILTY CLAY LOAM / SILTY LOAM (continued)			4		
			7	7.3	14.0
		-45	14	S	
Possible Bed Rock @ 48'	-27.30				
End of Boring		-50			
		-55			
		-60			

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 — SOIL BORING LOG (REZ-3, Page 1 of 2)

Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 1 of 2 — Date 3/11/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
SECTION (2021-922 PT 1,2&2122-921 PTI)R-4 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 016-W886 Station (Wall - R)
BORING NO. REZ-3 Station 113+32.20 Offset 1.12ft (WW) Ground Surface Elev. 20.69 ft
Surface Water Elev. ___ ft; Stream Bed Elev. ___ ft
Groundwater Elev.: First Encounter 5.7 ft▼; Upon Completion ___ ft; After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 3"	20.44				
Concrete, 8"	19.77				
Sub-Base and Sand, trace gravel (FILL)			16		
			16		
	17.69		15		
Loose to medium Dense Brown, Fine SAND, trace Gravel (Possible Back fill)			5		
			5		
		-5	7		
			3		
			3		
			3		
			3		
			5		
		-10	13		
			8		
			10		
			9		
Btm/Ftg El 7.00			5		
			4		
	5.69▼	-15	6		
Very Loose Gray SILTY LOAM			1		
			1		26.0
	3.19		1		
Very Stiff Gray CLAY			3		
			6	3.0	17.0
		-20	8	B	
Very Stiff Gray CLAY (continued)			4		
			6	3.4	17.0
	-1.81		10	B	
Hard Gray CLAY LOAM			4		
			7	4.3	18.0
		-25	12	B	
			4		
			7	4.7	15.0
	-6.81		10	B	
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM			4		
			7	5.1	16.0
		-30	9	B	
			5		
			7	6.9	13.0
		-35	10	S	
			7		
			12	7.5	14.0
		-40	17	S	

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 — SOIL BORING LOG (REZ-3, Page 2 of 2)

Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 2 of 2 — Date 3/11/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
SECTION (2021-922 PT 1,2&2122-921 PTI)R-4 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 016-W886 Station (Wall - R)
BORING NO. REZ-3 Station 113+32.20 Offset 1.12ft (WW) Ground Surface Elev. 20.69 ft
Surface Water Elev. ___ ft; Stream Bed Elev. ___ ft
Groundwater Elev.: First Encounter 5.7 ft▼; Upon Completion ___ ft; After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM (continued)			10		
			14	7.8	11.0
		-45	17	S	
			16		
Possible Bed Rock @ 49.5'	-28.81		Ø50		9.0
End of Boring		-50			
		-55			
		-60			

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 R21 of 28

CTE ENGINEERS
CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600
CHICAGO ILLINOIS 60601-5212, PHONE: (312) 938-0300

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
SOIL BORING LOGS
SOUTH WENTWORTH AVENUE RETAINING WALL
WEST 59TH STREET TO WEST 63RD STREET
SECTION 2021-922 PT.1-AC
STATION 111+25.00 TO 126+89.58
COOK COUNTY S.N. 016-W886

SCALE: None DRAWN BY: SR
DATE: October 29, 2004 CHECKED BY: JSS/MM

10/21/2004 04:41:39 PM