F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2021-922PT.1-AC	COOK	460	174
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

62693

Illinois Department of Transportation SOIL BORING LOG
Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 1 of 2

Date 3/18/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
(2021-922 PT 1.2 & 2122-921
SECTION PT1) R-4 LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 7 TAB1
Station (Wall Eb)

BORING NO. RAE-11
Station 533+66.29
Offset -3.63ft (WELL)
Ground Surface Elev. 16.29 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 3.8 ft▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Asphalt, 2" / Concrete, 6.5" 15.42			
Brown Sub Base and Sand, trace Gravel (FILL) 13.79	7		
	7		
	7		
Loose Brown, Medium to Coarse SAND (Possible Back Fill)	5		
	3		
	3		
3.79▼			
Loose Gray, Moist SILTY LOAM	4		
	3		20.0
1.29 -15	2		
Very Stiff Gray CLAY	3		
	5	2.6	18.0
	6	B	
-3.71 -20	4		
	5	3.7	17.0
	8	B	
Very Stiff to Hard Gray CLAY LOAM	5		
	6	3.9	18.0
-8.71 -25	10	B	
Hard / Dense Gray SILTY CLAY LOAM / SILTY LOAM	7		
	9	4.9	13.0
	12	B	
	5		
	8	5.1	13.0
-30	10	S	
	6		
	9	6.2	13.0
-35	13	B	
	8		
	11	4.7	11.0
-40	15	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
Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 2 of 2

Date 3/18/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
(2021-922 PT 1.2 & 2122-921
SECTION PT1) R-4 LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 7 TAB1
Station (Wall Eb)

BORING NO. RAE-11
Station 533+66.29
Offset -3.63ft (WELL)
Ground Surface Elev. 16.29 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 3.8 ft▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Hard / Dense Gray SILTY CLAY LOAM / SILTY LOAM (continued)	5		
	8	5.1	13.0
-45	13	B	
	14		
	18	6.4	14.0
-33.71 -50	23	B	
Dense Gray SILT	23		
	21		18.0
-38.71 -55	20		
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)

Illinois Department of Transportation SOIL BORING LOG
Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 1 of 1

Date 6/5/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY A.P.
(1919.15A,ETC.2122-921PT.1)
SECTION R-2 LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 7 TAB1
Station Subgrade

BORING NO. SGS-31
Station 1447+87.92
Offset -120.40ft (SBDR)
Ground Surface Elev. -1.01 ft

Surface Water Elev. ft
Stream Bed Elev. ft

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

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Asphalt, 4" -1.34			
Very Stiff to Hard Gray SILTY CLAY LOAM	4		
	5	2.6	18.0
	5	B	
	4		
	5	3.4	16.0
	10	B	
	4		
-5	6	3.6	17.0
	10	B	
	7		
	9	3.3	16.0
	12	B	
	13		
	14	6.3	13.0
-11.01 -10	18	S	
End of Boring			
-15			
-20			

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
Division of Highways
CHICAGO DRILLING COMPANY

Page 1 of 1

Date 8/5/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY A.P.
(2021-922 PT 1.2 & 2122-921
SECTION PT1) R-4 LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 7 SGH1
Station High Mast Light Poles

BORING NO. HML-133
Station 2423+68.56
Offset 174.68ft NBDR
Ground Surface Elev. 20.36 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 6.8 ft▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Asphalt, 2" / Concrete, 8" 19.53			
Loose to Medium Dense Brown, medium, trace gravel SAND	7		
	15		
	14		
	3		
	3		
-5	4		
	6		
	9		
	10		
	6		
	11		
-10	19		
▼			
	11		
	12		
	12		
	8		
	10		
5.36 -15	8		
Very Loose Gray SILTY LOAM	0		
	1		24.0
2.86	0		
Very Stiff Gray, trace gravel CLAY	3		
	5	2.6	13.0
-20	6	B	
Very Stiff Gray, trace gravel CLAY (continued)	2		
	5	3.7	18.0
-2.14	8	B	
Very Stiff to Hard Gray, trace gravel CLAY LOAM	4		
	7	3.3	16.0
-25	11	B	
	4		
	8	4.1	14.0
	9	B	
	5		
	6	3.9	13.0
-9.64 -30	11	B	
Hard Gray, trace boulder SILTY CLAY LOAM	11		
	11	4.7	11.0
-14.64 -35	15	S	
End of Boring			
-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 SOIL BORING LOG
Division of Highways
AMERICAN GEOENGINEERING, INC

Page 1 of 2

Date 4/2/03

ROUTE F.A.I. I-94 / I-90 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY A.P.
(2021-922 PT 1.2 & 2122 - 921
SECTION PT1) R-4 LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 7 SGH2
Station (Wall - X)

BORING NO. REX-1
Station 109+26.35
Offset -35.31ft (NW)
Ground Surface Elev. 16.77 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 6.8 ft▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Asphalt, 1.5" / Concrete, 10" 15.77			
Very Loose to Medium Dense Brown, Fine to Medium SAND (Possible Back Fill)	7		
	8		
	8		
	6		
	4		
-5	3		
B/ Leveling Pad El. 9.8	3		
	4		
	5		
	4		
	6		
	8		
▼-10			
	3		
	1		
Stiff to Very Stiff Gray CLAY 4.27	1		
	2		
	4	1.7	19.0
-15	6	B	
	5		
	7	2.2	17.0
	10	B	
	6		
	10	2.8	16.0
-3.23 -20	12	B	
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM	6		
	11	4.3	15.0
	12	B	
	7		
	12	5.1	16.0
-25	14	B	
	7		
	13	5.4	18.0
	15	B	
	13		
	16	7.7	12.0
-30	19	B	
	8		
	12	8.0	20.0
-40	21	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
Division of Highways
AMERICAN GEOENGINEERING, INC

Page 2 of 2

Date 4/2/03

ROUTE F.A.I. I-94 / I-90 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY A.P.
(2021-922 PT 1.2 & 2122 - 921
SECTION PT1) R-4 LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 7 SGH2
Station (Wall - X)

BORING NO. REX-1
Station 109+26.35
Offset -35.31ft (NW)
Ground Surface Elev. 16.77 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 6.8 ft▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM (continued)	30		
Possible Bed Rock @ 44.5' -27.73	50/0	7.7	21.0
End of Boring -45	5		
-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)

ES-04

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)
63rd ST TO 59th ST (FRONTAGE ROAD & RAMPS)

HIGH MAST TOWER FOUNDATION
SOIL BORINGS - SHEET 3

SCALE: None DRAWN BY: CHD
DATE: October 29, 2004 CHECKED BY: WK

10/21/2004 02:56:07 PM

m:\940468\Elec\V4-Cnt\PLS\NCONTRACT_9CNLES09d0042.dgn