Illinois Department of Transportation — SOIL BORING LOG

Division of Highways, AMERICAN GEOENGINEERING, INC.

Page 1 of 1 — Date 4/8/05

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
SECTION (1919.15A, ETC. 2122-921PT.1) R-3 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. ____ Station Sign Structures
BORING NO. STB-52 Station 3475+93.62 Offset 10.84ft (SBLOC) Ground Surface Elev. 0.63 ft
Surface Water Elev. ____ ft; Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter Dry ft; Upon Completion ____ ft; After ____ Hrs. ____ ft

Description	Elev. (ft)	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Asphalt, 2"	0.46				
Concrete, 10"	-0.37				
Sub Base, Gravel (FILL)	-0.62		6, 7, 7	4.3 B	16.0
Very Stiff to Hard Gray CLAY			3, 4, 6	2.3 B	19.0
	-4.37	-5			
Very Stiff Gray SILTY CLAY LOAM			5, 6, 7	3.5 B	15.0
		-10	5, 7, 9	3.4 B	10.0
			5, 8, 11	2.8 B	13.0
	-14.37	-15	4, 6, 9	3.5 B	17.0
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM			5, 12, 18	8.1 S	12.0
		-20	14, 21, 28	6.6 S	10.0
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM (continued)			21, 24, 34	4.0 B	15.0
		-25	26, 50, -	5.8 S	16.0
Auger Refusal @ 26.5 feet	-25.87				
End of Boring		-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 — SOIL BORING LOG

Division of Highways, AMERICAN GEOENGINEERING, INC.

Page 1 of 1 — Date 4/9/05

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
SECTION (1919.15A, ETC. 2122-921PT.1) R-3 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. ____ Station Sign Structures
BORING NO. STB-45 Station 4395+96.31 Offset 69.00ft (NBLOC) Ground Surface Elev. 14.97 ft
Surface Water Elev. ____ ft; Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter 5.0 ft ▼; Upon Completion ____ ft; After ____ Hrs. ____ ft

Description	Elev. (ft)	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Base Material, 18"	13.47		7, 7, 9		
Brown to Gray Clay and Sand (FILL)	12.47				
Medium Dense to Dense Brown SAND, trace Gravel		-5	5, 6, 8		
			19, 22, 25		
	4.97 ▼	-10	7, 12, 13		
Loose Gray SILTY LOAM			2, 2, 4		26.0
	0.47	-15	2, 3, 5		24.0
Very Stiff Gray CLAY			3, 5, 8	2.4 B	20.0
	-5.03	-20	5, 10, 14	3.1 B	15.0
Hard to Very Stiff Gray SILTY CLAY LOAM			6, 10, 11	5.2 B,S	17.0
	-10.03	-25	6, 8, 11	3.4 B	18.0
Hard / Medium Dense Gray SILTY CLAY LOAM / SILTY LOAM			11, 12, 15	6.9 B,S	13.0
		-30	8, 10, 13	6.2 B,S	13.0
	-20.03	-35	6, 10, 13	7.0 B,S	14.0
End of Boring		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways, AMERICAN GEOENGINEERING, INC.

Page 1 of 1 — Date 4/9/05

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
SECTION (1919.15A, ETC. 2122-921PT.1) R-3 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. ____ Station Sign Structures
BORING NO. STB-46 Station 4421+27.40 Offset 41.53ft (NBLOC) Ground Surface Elev. 0.23 ft
Surface Water Elev. ____ ft; Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter Dry ft; Upon Completion ____ ft; After ____ Hrs. ____ ft

Description	Elev. (ft)	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Base Material, 10"	-0.77				
Stiff Gray CLAY	-2.27		5, 4, 5	1.8 B	20.0
Very Stiff Gray SILTY CLAY LOAM		-5	5, 5, 8	3.2 B	19.0
			4, 7, 8	3.3 B	19.0
	-9.77	-10	3, 6, 8	3.6 B	16.0
Hard / Dense Gray SILTY CLAY LOAM / SILTY LOAM			6, 10, 14	7.4 B,S	13.0
		-15	8, 11, 15	8.3 B	13.0
			10, 9, 16	8.5 B	13.0
		-20	10, 15, 17	9.9 S	12.0
Hard / Dense Gray SILTY CLAY LOAM / SILTY LOAM (continued)	-22.27		10, 14, 15	6.0 B	13.0
Dense Gray SILT	-24.77	-25	14, 16, 22		14.0
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM			20, 39, 42	11.7 S	10.0
		-30	12, 25, 28		10.0
Auger Refusal @ 31.5'	-31.27				
End of Boring		-35, -40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways, AMERICAN GEOENGINEERING, INC.

Page 1 of 1 — Date 5/22/03

ROUTE F.A.I. I-94 / I-90 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY P.P.
SECTION (1919.15A, ETC. 2122-921PT.1)R-2 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. ____ Station Sewer System
BORING NO. SSN-9 Station 2421+52.60 Offset 57.27ft (NBDR) Ground Surface Elev. 2.96 ft
Surface Water Elev. ____ ft; Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter Dry ft; Upon Completion ____ ft; After ____ Hrs. ____ ft

Description	Elev. (ft)	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Concrete, 10"	2.13				
Hard Gray CLAY	0.46		5, 6, 7	5.6 B	14.0
Very Stiff to Hard Gray SILTY CLAY LOAM		-5	5, 4, 6	3.5 B	16.0
			4, 7, 10	3.2 B	18.0
		-10	5, 4, 8	3.9 B	17.0
	-9.54		4, 5, 7	4.0 B	16.0
Hard / Medium Dense Gray SILTY CLAY LOAM / SILTY LOAM		-15	4, 5, 8	4.3 B	14.0
			5, 8, 11	5.2 S	12.0
	-17.04	-20	9, 11, 14	6.7 S	13.0

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, CHICAGO DRILLING COMPANY

Page 1 of 1 — Date 8/18/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY A.P.
SECTION (2021-922PT 1,2 & 2122-921PT1) R-4 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. ____ Station Sign Trusses
BORING NO. STB-19 Station 2455+53.10 Offset 127.64ft (NBDR) Ground Surface Elev. 5.38 ft
Surface Water Elev. ____ ft; Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter Dry ft; Upon Completion ____ ft; After ____ Hrs. ____ ft

Description	Elev. (ft)	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Brown Sub Base and Gravel (FILL)	4.38				
Medium Dense L. Brown, medium to fine SAND			11, 8, 9		
	0.38	-5	4, 6, 7		
Very Stiff Gray CLAY			2, 3, 6	2.2 B	18.0
	-4.62	-10	3, 8, 18	2.8 B	18.0
Very Stiff to Hard Gray CLAY LOAM			3, 6, 9	3.4 B	17.0
	-9.62	-15	6, 10, 13	4.0 B	17.0
Hard Gray SILTY CLAY LOAM			4, 10, 16	7.8 S	14.0
	-14.62	-20	12, 17, 20	7.0 S	12.0
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM			12, 15, 25	5.8 S	13.0
		-25	12, 17, 23	6.0 S	14.0
			10, 13, 21	4.0 S	19.0
		-30	7, 10, 16	4.7 S	15.0
	-29.62	-35	15, 17, 26	5.8 S	12.0
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.

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ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
SECTION (1919.15A, ETC. 2122-921PT.1) R-3 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. ____ Station Sign Structures
BORING NO. STB-50 Station 4455+42.23 Offset -12.74ft (NBLOC) Ground Surface Elev. 0.94 ft
Surface Water Elev. ____ ft; Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter Dry ft; Upon Completion ____ ft; After ____ Hrs. ____ ft

Description	Elev. (ft)	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Asphalt, 2"	0.77				
Concrete, 10"	-0.06				
Very Stiff to Hard Gray SILTY CLAY LOAM			7, 7, 7	7.2 B	15.0
		-5	3, 6, 5	4.5 P	11.0
			7, 9, 7	3.3 B	15.0
		-10	8, 7, 8	4.1 B	17.0
	-11.56		8, 10, 12	6.9 S	13.0
Medium Dense Gray SILT	-14.06	-15	17, 15, 14		15.0
Very Stiff to Hard Gray SILTY CLAY LOAM			7, 12, 12	9.1 B,S	13.0
		-20	9, 11, 14	5.1 B	15.0
Very Stiff to Hard Gray SILTY CLAY LOAM (continued)			8, 10, 12	6.0 B	15.0
		-25	7, 9, 10	3.1 B	16.0
	-26.56		6, 7, 8	5.9 B,S	13.0
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM		-30	10, 11, 11	6.8 S	11.0
	-34.06	-35	26, 27, 26	11.0 S	10.0
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)

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

SOIL BORING LOGS FOR SIGN STRUCTURE FOUNDATIONS

SCALE: NONE DRAWN BY: SLW
DATE: June 9, 2006 CHECKED BY: PJO