F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2002-022 K	WILL	172	171
STA. 10+00		TO STA. 22+96.05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62389				

Illinois Department of Transportation
Division of Highways
ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

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Date 12/30/03

ROUTE FAI 55 DESCRIPTION Bridge End-Slope Retaining Wall LOGGED BY C. Goddard
SECTION 2002-022K LOCATION SW 1/4, SEC. 14, TWP. T37N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Mobile B80, 3.25" ID HSA HAMMER TYPE CME Automatic

STRUCT. NO. ____ Station ____
BORING NO. BRW-1 Station 1460+39 IL 53 Offset 69.00ft Rt CL IL 53 Ground Surface Elev. 701.98 ft
Surface Water Elev. ____ ft Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter ____ ft Upon Completion DRY ft After 24 Hrs. 680.4 ft

Description	Elev.	Depth (ft)	Blows (/6")	Qu (tsf)	Moist (%)
3 inches topsoil	701.44				
Hard Brown SILTY CLAY w/trace coarse sand		4	5 5	4.7 B	15
		8	8 11	6.4 B	16
		12	7 10	6.1 B	17
	689.98	16	13 19	5.9 B	16
Very Stiff Gray SILTY CLAY w/trace coarse sand to fine gravel		20	5 6 6	3.8 B	18
4 inch thick Silt Layer @ about 15.0 ft		24	5 4 7	3.9 B	10 16
		28	5 8 11	3.7 B	14
		32			
Very Stiff Gray SILTY CLAY w/trace fine gravel (continued)		36	5 6	3.5 B	15
Grades Very Stiff to Hard		40	7 11	4.8 B	17
		44	3		
		48	8 8	6.3 B	17
		52	4		
		56	7 11	4.5 B	16
End of Boring	675.18				

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
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

Page 1 of 1
Date 12/30/03

ROUTE FAI 55 DESCRIPTION Bridge End-Slope Retaining Wall LOGGED BY C. Goddard
SECTION 2002-022K LOCATION SW 1/4, SEC. 14, TWP. T37N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Mobile B80, 3.25" ID HSA HAMMER TYPE CME Automatic

STRUCT. NO. ____ Station ____
BORING NO. BRW-2 Station 1462+59 IL 53 Offset 75.00ft Rt CL IL 53 Ground Surface Elev. 703.90 ft
Surface Water Elev. ____ ft Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter ____ ft Upon Completion DRY ft After 24 Hrs. 676.6 ft

Description	Elev.	Depth (ft)	Blows (/6")	Qu (tsf)	Moist (%)
4 inches topsoil	703.57				
Stiff Brown SILTY CLAY		2	3 9	1.8 B	20
Grades to Soft		6	WOH		
	694.30	8	1 6	0.4 B 4.5+ P	20
Very Stiff to Hard Brown SILTY CLAY w/trace coarse sand to fine gravel		12	8 10	6.2 B 4.5+ P	16
Grades to Very Stiff Greyish-Brown		16	4 7 10	2.7 B	16
Grades to Grey		20	2 5 8	2.8 B	16
		24	3 4 9	2.8 B	17
		28	3 5 7	2.8 B	15
	680.90	32			
Very Stiff Gray SILTY CLAY w/trace coarse sand to fine gravel (continued) 2 Inch Silt Seam @ about 20.1 ft		36	2 4 5	2.0 B	17
Grades to Stiff		40	2 4 5	1.2 B	17
Grades w/more silt		44	3 4 4	1.7 B	18
End of Boring	675.30	48			

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)

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SOIL BORING LOG

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Date 12/3/03

ROUTE FAI 55 DESCRIPTION NE Frontage Road Retaining Wall LOGGED BY C. Goddard
SECTION 2002-022K LOCATION SW 1/4, SEC. 14, TWP. T37N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Mobile B80, 3.25" ID HSA HAMMER TYPE CME Automatic

STRUCT. NO. ____ Station ____
BORING NO. RW-1 Station 17+35 Offset 41.00ft LT BL Ground Surface Elev. 701.39 ft
Surface Water Elev. ____ ft Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter ____ ft Upon Completion DRY ft After 120 Hrs. 686.2 ft

Description	Elev.	Depth (ft)	Blows (/6")	Qu (tsf)	Moist (%)
Very Stiff Mottled Brown & Black SILTY CLAY, Fill		2	2 3	2.6 P	23
Stiff to Very Stiff Brown SILTY CLAY		6	3 3	2.6 P	
	694.39	8	3 6	1.5 P	24
Hard Brown SILTY CLAY w/trace coarse sand		12	4 5	5.8 B	17
Grades w/trace fine gravel		16	7 10	4.6 B	16
Very Stiff Gray SILTY CLAY w/trace coarse sand		20	5 13	8.2 B	19
		24	3 6 7	4.0 B	17
		28	5 7	4.0 B	15
Very Stiff Gray SILTY CLAY w/trace coarse sand (continued) Thin sand seam @ about 20.4 ft	679.40	32	3 7 16	3.3 B	17
End of Boring		36			

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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ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

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Date 11/26/03

ROUTE FAI 55 DESCRIPTION Sign Truss LOGGED BY C. Goddard
SECTION 2002-022K LOCATION SW 1/4, SEC. 14, TWP. T37N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Mobile B80, 3.25" ID HSA HAMMER TYPE CME Automatic

STRUCT. NO. ____ Station ____
BORING NO. ST-3 Station 27+50 Offset 41.00ft LT BL Ground Surface Elev. 721.55 ft
Surface Water Elev. ____ ft Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter 691.6 ft Upon Completion 704.4 ft After 312 Hrs. 721.6 ft

Description	Elev.	Depth (ft)	Blows (/6")	Qu (tsf)	Moist (%)
Black SILTY CLAY		2	6 9	3.3 B	14
Stiff Gray SILTY CLAY	718.05	6	3 3 5	1.7 B	25
Soft to Medium Stiff Brown SILTY CLAY	717.05	10	1 1 2	0.8 B	32
Grades Stiff w/more silt		14	1 3 5	1.5 B	25
Very Stiff Gray SILTY CLAY w/coarse sand	712.05	18	3 4 5	2.0 P	12
Grades w/less coarse sand & w/trace fine gravel	709.05	22	4 5 8	2.5 B	16
		26	5 9 8	2.8 B	15.7
		30	3 6 10	2.8 B	18
Very Stiff Gray SILTY CLAY w/coarse sand (continued)		34	2 6 9	3.3 B	14
Note: Sampler driven thru Dolomite fragment		38	20 14 9		10
Note: Borehole filled with surface water from ditch @ 312 hours after hole completion. End of Boring		42	5 7	2.5 B	16

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
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SOIL BORING LOG

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Date 12/3/03

ROUTE FAI 55 DESCRIPTION NE Frontage Road Retaining Wall LOGGED BY C. Goddard
SECTION 2002-022K LOCATION SW 1/4, SEC. 14, TWP. T37N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Mobile B80, 3.25" ID HSA HAMMER TYPE CME Automatic

STRUCT. NO. ____ Station ____
BORING NO. RW-2 Station 20+65 Offset 13.00ft Rt CL Ground Surface Elev. 709.82 ft
Surface Water Elev. ____ ft Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter ____ ft Upon Completion DRY ft After ____ Hrs. ____ ft

Description	Elev.	Depth (ft)	Blows (/6")	Qu (tsf)	Moist (%)
Brown SILTY CLAY w/trace coarse sand		2	5 6	3.5 B	15
Very Stiff Black SILTY CLAY w/trace organic fibers	702.82	6	3 5	2.5 P	24
Stiff to Very Stiff Brown SILTY CLAY w/trace coarse sand	703.82	10	3 3 3	1.4 B	27
Grades w/trace fine gravel		14	3 3	2.6 B	19
Grades w/more silt		18	2 3 3	3.7 B	18
		22	4 6 8	2.3 B	15
		26	4 5 6	1.9 B	15
Very Stiff Gray SILTY CLAY w/trace fine gravel	687.82	30	3 5 8	3.9 B	14
Grades w/less coarse sand & w/trace fine gravel (continued)		34	5 6	3.5 B	15
Grades Very Stiff to Hard		38	7 11	4.8 B	17
		42	3		
		46	8 8	6.3 B	17
		50	4		
		54	7 11	4.5 B	16
End of Boring	659.12	58			

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)

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SOIL BORING LOG

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Date 12/1/03

ROUTE FAI 55 DESCRIPTION Sign Truss LOGGED BY C. Goddard
SECTION 2002-022K LOCATION SW 1/4, SEC. 14, TWP. T37N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Mobile B80, 3.25" ID HSA HAMMER TYPE CME Automatic

STRUCT. NO. ____ Station ____
BORING NO. ST-1 Station 4+45 Offset 30.00ft LT BL Ground Surface Elev. 712.73 ft
Surface Water Elev. ____ ft Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter ____ ft Upon Completion DRY ft After 168 Hrs. 688.7 ft

Description	Elev.	Depth (ft)	Blows (/6")	Qu (tsf)	Moist (%)
Brown SILTY CLAY FILL	710.73				9
Hard Brown SILTY CLAY w/trace coarse sand to fine gravel		4	3 8 7	6.0 B	15
Note: Sampler driven thru Dolomite fragment		8	18 54 19	4.5+ P	14
Grades to Very Stiff		12	5 8 11	5.8 B	15
		16	4 8 8	3.5 B 4.5+ P	14
Grades Greyish-Brown		20	3 5 8	3.5 B	17
		24	2 4 6	3.2 P	15
		28	3 4 4	2.7 B	16
	692.73	32			
Very Stiff Greyish-Brown SILTY CLAY w/trace coarse sand to fine gravel (continued)		36	3 5 8	3.4 B	16
Grades w/less coarse sand & fine gravel		40	2 4 5	3.0 B	16
		44	3 5 7	3.3 B	15
		48	2 5 9	3.1 B	15
Note: Disturbed sample, poor recovery	681.23	52	4 6 12		14
End of Boring		56			

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)

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ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

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Date 12/1/03

ROUTE FAI 55 DESCRIPTION Sign Truss LOGGED BY C. Goddard
SECTION 2002-022K LOCATION SW 1/4, SEC. 14, TWP. T37N, RNG. R10E, 3rd PM
COUNTY Will DRILLING METHOD Mobile B80, 3.25" ID HSA HAMMER TYPE CME Automatic

STRUCT. NO. ____ Station ____
BORING NO. ST-2 Station 20+00 Offset 30.00ft LT BL Ground Surface Elev. 720.06 ft
Surface Water Elev. ____ ft Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter 712.8 ft Upon Completion 716.1 ft After 168 Hrs. 716.1 ft

Description	Elev.	Depth (ft)	Blows (/6")	Qu (tsf)	Moist (%)
Mottled Brown & Black SILTY CLAY	718.09	2	3 4	1.9 B	27
Stiff Mottled Brown & Gray SILTY CLAY		6	2 3 3		15
Grades w/fine gravel to coarse sand	713.56	10	3 5 5		20
Medium Dense Brown SANDY CLAY LOAM w/little coarse sand		14	11 8		15
Grades w/fine gravel	707.44	18	3 4 6	3.3 P	17
Stiff to Very Stiff Gray SILTY CLAY w/trace fine gravel		22	3 6 6	4.0 B	16
Grades w/trace coarse sand		26	3 5 5	1.9 B	14
Grades w/more fine gravel		30	3 4 4	2.7 B	16
Stiff to Very Stiff Gray SILTY CLAY w/trace fine gravel (continued) Thin silt seams @ about 20.5 ft & 21.3 ft		34	2 5 7	2.0 B	17
Grades w/fine gravel to coarse sand		38	4 6 8	3.6 B	17
Grades Brownish-Gray		42	4 6 8	2.8 B	17
End of Boring	668.06	46	6 10	2.9 B	17

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)

PLAN — NOTE BOOK NO. ____ — SURVEYED ____ PLOTTED ____ HORIZ. CHECKED ____ VERT. CHECKED ____ PLAN FILE NAME ____ — BY ____ DATE ____

PROFILE — NOTE BOOK NO. ____ — SURVEYED ____ PLOTTED ____ GRADES CHECKED ____ BLM. ADDED ____ STRUCTURE NOTATIONS CHKD ____ — BY ____ DATE ____

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

SCALE: N.T.S. DRAWN BY: CC
DATE: 11/8/2004 CHECKED BY: RI

DMJM HARRIS
303 East Wacker Drive, Suite 600
Chicago, Illinois, 60601 Phone: 312.321.6101 Fax: 312.396.2392

OCTOBER, 2004

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