ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG

Page 1 Of 2
Date 6/13/06

ROUTE FAU 1566 (95th Street) DESCRIPTION Proposed Improvements (Contract No. 62377)
SECTION 29R-N-1 STRUCTURE NO. DRILLED BY KL&ES
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. SB-1
Station 212+00
Offset 8' L
Surface El. +702.03+/- M.S.L.

Surf. Wat. El.
Groundwater Elev.:
When Drilling Dry
at Completion Dry
After Hrs

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
13" BITUMINOUS CONCRETE PAVEMENT				FILL: CLAY, Brown and Gray, Trace Dark Brown and Dark Gray, Trace Sand and Gravel, Very Stiff to Stiff, Moist (A-6)			24.7
1.0				22.0	2		
5" CONCRETE PAVEMENT					3	2.10 B/S	
FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Stiff, Moist (A-6)				23.0	5		
2.0		1.75 P	21.8				
3.0				24.0	3		
					4	2.80 B/S	22.7
FILL: CLAY, Brown and Gray, Trace Dark Gray, Trace Sand and Gravel, Stiff to Very Stiff to Medium to Very Stiff to Stiff, Moist (A-6)				25.0	7		
4.0	6						
	5	1.50 P	25.6	26.0	3		
(Hit rock at 3.5' to 5') 5.0	2				4	1.50 S	19.1
				27.0	5		
(Hit rock at 6' to 7.5'-sample disturbed)	6	1.50 P					
7.0	5	3.00 P	23.8	28.0			
(Dry Density = 99.9 pcf) (Little Dark Gray 7-7.5')	3				4		
8.0		0.50 P		29.0	3	1.80 S	17.8
					7		
(Hit rock at 8.5' to 9'-Highly disturbed) 9.0	7			30.0			
	4	1.75 P	19.7				
10.0	4	3.00 P		31.0			
					3		
11.0				32.0	4	2.50 P	18.6
(Hit rock at 11' to 12.5')	4				6		
12.0	3	2.50 P	18.9	33.0			
	3						
13.0				34.0	3	1.20 S	21.6
					4		
(No recovery-switched to wider plug in HSA. Took auger sample) 14.0	5			35.0	4	2.30 B/S	
	4	1.00 P	21.1				
15.0	3			36.0			
(Trace Brick Fragment at 35 feet)							
16.0	4			37.0	4		
	3	1.70 B/S	17.1		4	3.00 S	19.0
(Dry Density = 106.0 pcf) 17.0	4				6		
18.0				38.0			
19.0	2			39.0	4		
FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Stiff, Moist (A-6)	2	1.40 B/S	19.5		5	1.50 B	20.2
	3			40.0	6		
20.0							
(Little Black, Trace Fibers Mixed in at 39.5')				41.0	7	1.50 S	12.6
21.0				42.0	10		

N=Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140lb hammer falling 30"

(QU)B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet Offset is from Centerline of Existing Road

SEECO Job No. 7891G-5

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG

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ROUTE FAU 1566 (95th Street) DESCRIPTION Proposed Improvements (Contract No. 62377)
SECTION 29R-N-1 STRUCTURE NO. DRILLED BY KL&ES
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. SB-1
Station 212+00
Offset 8' L
Surface El. +702.03+/- M.S.L.

Surf. Wat. El.
Groundwater Elev.:
When Drilling Dry
at Completion Dry
After Hrs

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
	18	3.80 S			10	3.80 B/S	12.1
43.0				64.0	13		
	5				17	5.20 B/S	
44.0	8	1.60 B/S	17.1	65.0			
	8						
45.0				66.0	9		
30" ORGANIC CLAY, Black, Medium, Wet (A-7-5)					10	4.70 B/S	14.5
46.0	1			67.0	15		
	1	0.50 B	52.3				
(Dry Density = 73.3 pcf) (Organic Content = 5.3%) (Atterberg Limit) 47.0	2		51.4	68.0			
			51.4				
48.0				69.0	5		
18" ORGANIC CLAY, Dark Gray, race Fibers, Medium, Wet (A-7-5)					6	4.00 B	14.3
49.0	3	0.50 B	51.3	70.0	11		
	2						
CLAY, Gray, Trace Dark Gray, Soft, Moist (A-7-6) 50.0	5	0.43 B	24.0	71.0			
(Organic Content = 2.2%)					6		
CLAY, Gray, Trace Sand and Gravel, Very Stiff to Stiff to Hard to Very Stiff, Moist (A-6)	1			72.0	9	3.90 B/S	14.9
51.0	5	2.00 B/S	19.0		12		
	5			73.0			
52.0							
53.0				74.0	7	2.60 B/S	14.2
					7		
SILTY CLAY, Gray, Trace Sand and Gravel, Very Stiff, Moist (A-6) 54.0	4			75.0	9	2.10 S	13.5
	4	1.50 B	18.6				
CLAY, Gray, Trace Sand and Gravel, Hard to Very Stiff, Moist (A-6) 55.0	7			76.0			
					9		
(Contains Coarse Gravel at 76' to 77.5') 56.0	7			77.0	12	4.90 B	12.7
	12	3.80 B/S	15.2		16		
57.0	13			78.0			
58.0				79.0	7		
	5				11	3.00 B	14.4
59.0	9	4.50 B/S	16.1	80.0	18		
	12						
60.0				81.0			
61.0				82.0			
	7						
62.0	10	3.50 B/S	15.5	83.0			
	15						
End of Boring @ 80.0 feet 63.0				84.0			

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SEECO Job No. 7891G-5

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG

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Date 6/12/06

ROUTE FAU 1566 (95th Street) DESCRIPTION Proposed Improvements (Contract No. 62377)
SECTION 29R-N-1 STRUCTURE NO. DRILLED BY KL&ES
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. SB-2
Station 212+85
Offset 9.5' L
Surface El. +702.77+/- M.S.L.

Surf. Wat. El.
Groundwater Elev.:
When Drilling Dry
at Completion Dry
After Hrs

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
14" BITUMINOUS CONCRETE PAVEMENT					3		
1.0				27.0	3	1.50 S	23.1
2" CRUSHED STONE BASE COURSE	2				5		
FILL: SILTY CLAY, Brown and Gray, Trace Sand and Gravel, Stiff to Very Stiff to Hard, Moist (A-6) 2.0	3	1.90 B/S	19.8	28.0			
	3						
3.0					3		
				29.0	3	1.60 S	21.7
(Dry Density = 109.1 pcf) (Combined Analysis) 4.0	2				5		
	2	2.70 B/S	20.1	30.0			
5.0	3						
6.0				31.0	3	2.10 B/S	20.2
	4				3		
7.0	3	5.00 B/S	16.7	32.0	4	1.25 P	21.9
	6		22.4				
FILL: CLAY, Brown, Gray and Dark Gray, Trace Sand and Gravel, Very Stiff, Moist (A-6) 8.0				33.0			
	2	1.50 P	24.8				
FILL: CLAY, Gray, Trace Dark Gray, Trace Sand and Gravel, Stiff, Moist (A-6) 9.0	1		45.3	34.0			
FILL: PEAT, Dark Brown and Dark Gray, Some Gray Clay, Trace Sand, Medium, Wet (A-8) 10.0	2	0.50 P					
FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Stiff to Medium, Moist (A-6) 11.0				35.0			
	2				3		
12.0	2	1.10 B/S	19.5	36.0	5	2.70 S	19.9
	3				6		
13.0				37.0			
(Atterberg Limits) 14.0	2				3		
	2	0.90 B/S	20.8	38.0	5	2.80 B/S	16.5
15.0	2				7		
16.0				39.0			
FILL: CLAY, Brown and Gray, Little to Trace Dark Brown, Trace Sand and Gravel, Very Stiff to Hard to Stiff, Moist (A-6) 17.0	2	2.00 P			6		
	3		20.2	40.0	6	2.40 B/S	18.0
	4	4.00 P			8		
(Dry Density = 106.1 pcf) 18.0				41.0			
19.0	2				3		142.3
	3	1.50 S	18.1	42.0	4		
20.0	5				6	0.50 B	44.2
				43.0			
21.0					9		
				44.0	9	3.60 B/S	14.0
					13		
				45.0			

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SEECO Job No. 7891G-5

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COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. SB-2
Station 212+85
Offset 9.5' L
Surface El. +702.77+/- M.S.L.

Surf. Wat. El.
Groundwater Elev.:
When Drilling Dry
at Completion Dry
After Hrs

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
	4	B			7	2.70 B/S	12.9
46.0				64.0	9		
SANDY CLAY, Gray, Medium, Moist (A-6)					12	4.90 B/S	
47.0	3			65.0			
(Dry Density = 117.2 pcf)	3	0.62 B/S	18.7				
48.0	4			66.0			
					13		
49.0				67.0	15	8.10 B/S	13.3
CLAY, Gray, Trace Sand and Gravel, Very Stiff to Hard, Moist (A-6)	4				16		
50.0	5	2.30 B/S	14.9	68.0			
(Dry Density = 115.8 pcf)	7						
51.0				69.0	9		
	6				10	4.30 B/S	13.8
52.0	10	5.20 B/S	15.9	70.0	14		
(Dry Density = 118.9 pcf)	12						
53.0				71.0			
54.0	6						
	8	5.00 B/S	16.2	72.0			
55.0	9						
56.0				73.0			
	5						
57.0	7	4.00 B	14.8	74.0			
(Dry Density = 119.7 pcf)	9						
58.0				75.0			
59.0	5						
	8	4.30 B	14.3	76.0			
60.0	12						
61.0				77.0			
	9						
62.0	9	3.60 B/S	14.0	78.0			
	13						
63.0				79.0			
				80.0			
				81.0			
				82.0			
				83.0			
				84.0			

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SECTION 29R-N-1 STRUCTURE NO. DRILLED BY KL&ES
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. SB-2
Station 212+85
Offset 9.5' L
Surface El. +702.77+/- M.S.L.

Surf. Wat. El.
Groundwater Elev.:
When Drilling Dry
at Completion Dry
After Hrs

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
	4	B			7	2.70 B/S	12.9
46.0				64.0	9		
SANDY CLAY, Gray, Medium, Moist (A-6)					12	4.90 B/S	
47.0	3			65.0			
(Dry Density = 117.2 pcf)	3	0.62 B/S	18.7				
48.0	4			66.0			
					13		
49.0				67.0	15	8.10 B/S	13.3
CLAY, Gray, Trace Sand and Gravel, Very Stiff to Hard, Moist (A-6)	4				16		
50.0	5	2.30 B/S	14.9	68.0			
(Dry Density = 115.8 pcf)	7						
51.0				69.0	9		
	6				10	4.30 B/S	13.8
52.0	10	5.20 B/S	15.9	70.0	14		
(Dry Density = 118.9 pcf)	12						
53.0				71.0			
54.0	6						
	8	5.00 B/S	16.2	72.0			
55.0	9						
56.0				73.0			
	5						
57.0	7	4.00 B	14.8	74.0			
(Dry Density = 119.7 pcf)	9						
58.0				75.0			
59.0	5						
	8	4.30 B	14.3	76.0			
60.0	12						
61.0				77.0			
	9						
62.0	9	3.60 B/S	14.0	78.0			
	13						
63.0				79.0			
				80.0			
				81.0			
				82.0			
				83.0			
				84.0			

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ROUTE FAU 1566 (95th Street) DESCRIPTION Proposed Improvements (Contract No. 62377)
SECTION 29R-N-1 STRUCTURE NO. DRILLED BY KL&ES
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. SB-3
Station 213+65
Offset 12' L
Surface El. +703.75+/- M.S.L.

Surf. Wat. El.
Groundwater Elev.:
When Drilling Dry
at Completion Dry
After Hrs

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
12" BITUMINOUS CONCRETE PAVEMENT				24" PEAT, Dark Brown, Fiberous, Soft, Wet (A-8)			284.3
1.0				22.0	2		
FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Stiff to Very Stiff to Hard, Moist (A-6)	2			(Dry Density 18.4 pcf)	2		
2.0	2	1.30 S	23.0	23.0	3		
	3			ORGANIC SILTY CLAY LOAM, Dark Gray to Dark Brown, Trace Sand and Gravel, Trace Fibers, Very Soft, Moist (A-5)			
3.0					1	0.20 B	21.0
				24.0	2		
(Dry Density 108.7 pcf) (Combined Analysis) (Atterberg Limit) 4.0	4			(Dry Density 88.39 pcf) (Combined Analysis) (Organic Content = 1.9%)	4	3.30 B/S	18.4
	5	3.50 S	18.1	25.0			
5.0	7			CLAY, Gray, Trace Sand and Gravel, Very Stiff to Stiff to Hard to Very Stiff, Moist (A-6)			
					2	1.20 B/S	23.0
6.0	3	2.75 P	23.2	(Dry Density 105.8 pcf) 27.0	3	1.50 B/S	
(3" Fill: Sandy Clay at 6.9" to 7') 7.0	2	0.25 P					
	3	5.10 S	19.0	28.0			
8.0					3		
or				29.0	3	1.10 B	19.8
FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Very Stiff to Medium to Soft to Medium, Moist (A-6)	2				5		
9.0	2	2.50 B/S	22.3	30.0			
(Dry Density 103.6 pcf) 10.0	3						
				31.0	5		
11.0					5	3.30 B/S	15.6
	1			32.0	9		
12.0	2	0.60 B/S	25.4	(Dry Density 117.5 pcf)			
	4			33.0			
13.0					4		
				34.0	4	3.10 B	18.8
14.0	1				6		
	2	0.42 B/S	22.5	35.0			
15.0	3						
				36.0			
(Low Recovery--Hit rock while sampling at 16.5'-17.5') 16.0	4						
	8	0.43 B/S	24.1	(Dry Density 119.0 pcf) 37.0	6	4.60 B/S	15.5
17.0	7				6		
18.0				38.0			
19.0	2			39.0	4		
	1	0.50 B/S	23.5		6	2.80 B/S	17.0
20.0	3			40.0	8		
(Trace Dark Gray at 20 feet)				End of Boring @ 40.0 feet 41.0			
21.0				42.0			

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SECTION 29R-N-1 STRUCTURE NO. DRILLED BY KL&ES
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. SB-4
Station 214+45
Offset 17' L
Surface El. +704.82+/- M.S.L.

Surf. Wat. El.
Groundwater Elev.:
When Drilling 25.5'
at Completion 19.33'
After Hrs

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
11" BITUMINOUS CONCRETE PAVEMENT				SILTY CLAY, Gray, Trace Sand and Gravel, Very Stiff, Moist (A-6)			
1.0				22.0	5		
2" CRUSHED STONE BASE COURSE					8	3.00 B	14.3
FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Very Stiff to Stiff, Moist (A-6) 2.0	4				9		
	4	3.50 B	13.6	23.0			
	5						
3.0				24.0	3		
					5	2.40 B	15.3
(Dry Density = 109.4 pcf) 4.0	2	2.25 P		25.0	7		
	2		21.2				
5.0	2	1.50 P		(Dry Density = 119.5 pcf) (Combined Analysis) 26.0			
6.0					8		20.5
	2			SANDY LOAM, Brown and Gray, Some Gravel, Medium Dense, Saturated (A-2-4)			
7.0	2	1.50 B/S	19.3	27.0	5	2.60 B	12.9
	4			(Grain Size)	6		
8.0				SILTY CLAY LOAM, Gray, Little Sand, Trace Gravel, Very Stiff, Moist (A-6) 28.0			
9.0	2			29.0	3		
39" CLAY (Transition Material), Dark Gray, Trace Brown, Trace Sand and Gravel, Medium, Moist (A-6) 10.0	3	0.60 B	26.7		4	3.40 B	14.1
	6				6		
(Dry Density = 93.4 pcf) (Organic Content = 2.6%) 11.0				31.0			
	3				6		
CLAY, Brown and Gray, Trace Sand and Gravel, Very Stiff to Hard to Stiff, Moist (A-6) 12.0	5	3.60 B/S	20.1	32.0	7	2.50 B	15.5
(Dry Density = 102.64 pcf)	7				8		
13.0				33.0			
				SILT, Gray, Medium Dense, Moist (A-4) 34.0	6		19.9
(Trace Dark Gray at 13.5'-14') 14.0	5				7		
	6	6.80 B/S	20.3	(Dry Density = 109.8 pcf)	15		13.9
15.0	9			35.0			
16.0				SANDY LOAM, Brownish Gray, Some Gravel, Medium Dense, Saturated (A-1-b)			
	9				6		16.4
(Hit rock--Low recovery) 17.0	10	1.50 P	24.7	36.0	10		
	15			(Grain Size)	11	4.10 S	12.8
18.0				(SANDY CLAY LOAM (A-6), Brownish Gray, Little Gravel at 36-36.2'--Grain Size) 37.0			
CLAY, Brownish Gray, Trace Sand and Gravel, Hard to Very Stiff, Moist (A-6) 19.0	5			CLAY, Brownish Gray, Trace Sand and Gravel, Hard to Very Stiff, Moist (A-6) 38.0			
	6	6.40 B/S	12.4				
(Dry Density = 123.5 pcf) 20.0	9				7		
				39.0	5	2.20 B	14.7
21.0				(Dry Density = 124.2 pcf)	8		
				End of Boring @ 40.0 feet 41.0			
				42.0			

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SEECO Job No. 7891G-5

FILE NAME = c:\pw_work\pwidot\steedpa\d0159915\P144099-Design.dgn	USER NAME = steedpa	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.7684 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/3/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING INFORMATION
95th STREET @ 104th AVENUE/ FLAVIN ROAD

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	73
		CONTRACT NO. 62377		
	ILLINOIS FED. AID PROJECT			