F.A.I.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	55
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET S6 OF S7

D1-91-026-02 CONTRACT NO. 62377

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG

Page 1 Of 2
Date 6/14/06

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. NB-1
Station 212+00
Offset 12.5' R
Surface El. +701.97+/- 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 %
1.0				22.0	3	1.10 B/S	20.1
	1				4		
2.0	2	3.50 S	20.9	23.0	7		
	3						
3.0				24.0	3	1.30 B/S	20.7
	2				3		
4.0	1	1.10 B/S	22.8	25.0	6		
	2						
5.0				26.0			
					4		30.0
6.0				27.0	5	1.80 S	13.8
	2				6		
7.0	1	1.75 S	20.1	28.0			
	2						
8.0				29.0	2	3.40 S	17.4
	2				3		
9.0	2	1.75 P	20.6	30.0	8		
	3						
10.0				31.0			
					5		
11.0				32.0	7	3.00 B/S	18.8
	2				7		
12.0	2	1.71 B/S	20.8	33.0			
	3						
13.0				34.0	3	1.30 B/S	22.7
	2				4		
14.0	2	1.40 B/S	22.4	35.0	6		
	4						
15.0				36.0			
					4		
16.0				37.0	5	1.60 S	23.0
	3				7		
17.0	2	1.10 B/S	23.0	38.0			
	4						
18.0				39.0	4	1.10 B/S	19.7
	3				6		
19.0	4	4.50 B/S	18.0	40.0	8		
	5						
20.0				41.0	5	1.60	19.7
21.0				42.0	5		

12" CRUSHED STONE SHOULDER COURSE

FILL: SILTY CLAY, Brown and Gray, Trace Dark Gray, Trace Sand and Gravel, Very Stiff to Stiff to Hard to Stiff to Very Stiff, Moist (A-6)

(Dry Density = 104.9 pcf)

(Hit rock)

(Low Recovery --Took auger sample)

(Dry Density = 105.2 pcf)

(Combined Analysis)
(Atterberg Limit)

(Dry Density = 109.2 pcf)

(Dry Density = 108.6 pcf)

(Little Dark Brown Clay with fibers from 26'3" to 26.5')

(Dry Density = 107.2 pcf)

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

Page 2 Of 2
Date 6/14/06

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. NB-1
Station 212+00
Offset 12.5' R
Surface El. +701.97+/- 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 %
43.0	8	S 2.40 B/S		64.0	6	2.00 B	11.3
	2	1.10 B	19.7		11		
44.0	3		62.3	65.0	18	2.40 B	
	3	0.60 B					
45.0				66.0	7	4.30 B/S	12.9
					10		
46.0	4	1.20 S	19.1	67.0	15	5.00 B/S	
	4						
47.0	7	1.60 B/S		68.0			
					9	2.90 B	14.6
48.0				69.0	10		
	4	1.10 B/S	17.5	70.0	11	4.40 B/S	
49.0	4						
	6	1.40 B/S	17.8	71.0	13	2.90 B	16.7
50.0				72.0	22		
					22	3.80 S	
51.0	6	2.20 B	17.6	73.0			
	8						
52.0	9	2.60 B/S		74.0			
53.0				75.0			
	8						
54.0	10	5.80 B/S	16.6	76.0			
	13						
55.0				77.0			
56.0				78.0			
	6	3.50 B/S	19.3				
57.0	8			79.0			
	11	4.70 B/S					
58.0				80.0			
59.0	6	2.50 B/S	17.7	81.0			
	9						
60.0	14	3.30 B		82.0			
61.0				83.0			
	12						
62.0	16	3.20 B	10.4	84.0			
63.0	24						

CLAY LOAM, Gray, Very Stiff, Moist (A-6)

33" ORGANIC CLAY, Black, Trace Peat and Fibers, Trace Shells, Medium, Wet (A-7-5)
(Organic Content = 8.4%)

CLAY, Gray, Trace Dark Gray, Trace Brown, Trace Sand and Gravel, Stiff, Moist (A-6)

CLAY, Gray, Trace Sand and Gravel, Stiff to Very Stiff to Hard to Very Stiff, Moist (A-6)

(Little Coarse Gravel at 54.5'-55.0')

(Little Coarse Gravel at 56.5')

CLAY, Gray, Trace Sand and Gravel, Hard to Very Stiff, Moist (A-6)

(Little Coarse Gravel at 71'-72.5')

End of Boring @ 72.5 feet

(Hit Rock-- Low Recovery at 61' to 62.5')

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

Page 1 Of 2
Date 6/20/06

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

Boring No. NB-3
Station 213+65
Offset 12.5' R
Surface El. +703.71+/- M.S.L.

Surf. Wat. El.
Groundwater Elev.:
When Drilling 53.5'
at Completion 42.4'
After Hrs

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
1.0				22.0	1	0.23 B	30.7
					2		
2.0	4	3.20 B/S	21.6	23.0	3	0.25 P	99.2
	4						
3.0	5			24.0	1		362.0
					2		
4.0	3			25.0	3		
	6	3.30 B/S	16.8				
5.0	7			26.0			
					1		330.6
6.0				27.0	2	0.30 B	77.9
	3				3		
7.0	4	1.90 B/S	21.4	28.0			
	5						
8.0				29.0	2		
	1				3	0.90 B/S	21.4
9.0	3	3.30 B/S	22.2	30.0	4		
	4						
10.0				31.0			
	2				3		
11.0	3	1.50 B/S	20.4	32.0	4	1.10 B/S	20.5
	4				5		
12.0				33.0			
	3	1.30 B/S	43.4				
13.0	4		27.9	34.0	4		
	4				6	2.70 B/S	15.3
14.0				35.0	9		
	2						
15.0	3	0.70 S	21.7	36.0			
	4						
16.0				37.0	4		
					6	4.75 B/S	16.1
17.0				38.0	10		
18.0				39.0	4		
					6	3.30 B/S	19.7
19.0	2	0.40 B	22.4	40.0	9		
	2						
20.0	3			41.0			
					5		
21.0				42.0	7	4.00	14.8
22.0				43.0			

9" CRUSHED STONE BASE COURSE

1" FILL: CLAY, Black (A-6)

FILL: CLAY, Brown and Gray, Trace Dark Gray, Trace Sand and Gravel, Very Stiff to Stiff to Hard to Stiff to Medium to Very Soft, Moist to Wet (A-6)

(Some Black Clay, Trace Fibers at 12.25 feet)

(3" Black Clay with Peat Fibers at 13.75')

(Dry Density = 105.5 pcf)

30" ORGANIC CLAY, Black, Soft, Wet (A-7-5)
(Dry Density = 38.6 pcf)

PEAT, Dark Brown, Fibrous, Soft, Wet (A-8)
(Dry Density = 13.4 pcf)

18" ORGANIC CLAY, Dark Gray, Trace Fibers, Soft, Wet (A-7-5)
(Dry Density = 54.2 pcf)

CLAY, Gray, Trace Sand and Gravel, Medium to Hard to Very Stiff to Stiff to Hard to Very Stiff, Moist (A-6)

(Dry Density = 110.3 pcf)

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

Page 1 Of 1
Date 6/14/06

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. NB-4
Station 214+45
Offset 17.5' R
Surface El. +704.94+/- M.S.L.

Surf. Wat. El.
Groundwater Elev.:
When Drilling 28.5'
at Completion 13'
After Hrs

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
					6	B/S	
1.0				23.0			
	4				3		
2.0	3	1.10 S	21.9	24.0	3	2.00 B	16.9
	3				5		
3.0				25.0			
					4		
4.0	9			26.0	5	1.75 B/S	15.4
	9	4.80 B/S	15.9		6		
5.0	7			27.0			
6.0				28.0			
	3						
7.0	3	1.60 B/S	21.4	29.0	5		18.2
	4				7	1.80 B/S	
8.0				30.0	7		15.3
9.0	3			31.0			
	4	0.70 S	43.7				
10.0	4			32.0	6		
					7	2.30 B/S	15.4
11.0				33.0	9		
	2						
12.0	2	0.30 B	20.5	34.0	6		
	4				7	3.10 B/S	16.5
13.0				35.0	12		
	3						
14.0	4	1.80 B	26.6	36.0			
	5				11	2.60 S	11.7
15.0				37.0	12		
					13		11.4
16.0	2			38.0			
	3	2.30 B/S	16.7				
17.0	4			39.0	7		
					7		32.7
18.0				40.0	9		21.0
	2						
19.0	3	2.30 B/S	17.8	41.0			
	4						
20.0				42.0			
	4						
21.0				43.0			
22.0	5	2.30	14.7	44.0			

8" CRUSHED STONE SHOULDER COURSE

FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Stiff to Hard, Moist (A-6)

(Dry Density = 102.4 pcf)

(Amberg Limit)
(Combined Analysis)

18" ORGANIC CLAY LOAM (TOPSOIL), Black, Trace Sand, Medium, Wet (A-7-5)
(Organic Content = 5.4%)

CLAY, Brown, Gray and Dark Gray, Trace Sand, Medium, Moist (A-6)

CLAY, Brown and Gray, Trace Sand and Gravel, Stiff, Moist (A-6)

CLAY, Brown and Gray, Trace Sand and Gravel, Very Stiff to Stiff, Moist (A-6)

(Trace Brown at 16'-17.5')

(Dry Density = 112.5 pcf)

(Hit rock--Low recovery at 26'-27.5')

SAND, Gray, Some Gravel, Medium Dense, Saturated (A-1-b)

(Grain Size)

CLAY, Gray, Trace Sand and Gravel, Stiff to Very Stiff, Moist (A-6)

(Dry Density = 119.8 pcf)

SILTY CLAY, Gray, Very Stiff, Trace Sand and Gravel, Moist (A-6)

SAND, Gray, Medium Dense, Saturated (A-3)

(Grain Size)

SAND AND GRAVEL, Gray, Coarse Grained, Medium Dense, Saturated (A-1-b)

(1" of Gray Clay at 40 feet)
End of Boring @ 40.0 feet

(Note: The groundwater elevation at the completion of the borehole is not a true water table level as the drillers injected water down the borehole at approximately 37 feet to stabilize the saturated sand layers from heave --Field Geotechnical Engineer's Observation)

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

Page 2 Of 2
Date 6/14/06

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. NB-2
Station 212+85
Offset 12.5' R
Surface El. +702.56+/- 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 %
1.0			17.2	22.0	4	2.80 S	26.6
	3				3		
2.0	3	3.30 B/S	18.0	23.0	6		
	4						
3.0				24.0	4		
	3				5	4.20 B/S	21.2
4.0	2	2.73 B/S	21.6	25.0	7		
	2						
5.0				26.0			
					3	1.60 B/S	
6.0				27.0	3		16.2
	2				5	0.60 B/S	
7.0	3	3.40 B/S	17.9	28.0			
	3						
8.0				29.0	3		
					4	1.00 B/S	14.7
9.0	3			30.0	5		
	4	1.10 B/S	27.7				
10.0	3			31.0			
					3		
11.0				32.0	3	0.70 S	18.1
	2				4		
12.0	2	3.20 B/S	21.3	33.0			
	2						
13.0				34.0	4		
					5	1.60 S	20.6
14.0	2			35.0	7		
	3	1.10 S	18.7				
15.0	4			36.0			
					1	1.00 B	19.9
16.0				37.0	1	0.40 B	62.3
	2				1		301.5
17.0	3	1.60 B/S	18.9	38.0			
	3						
18.0				39.0	1		
					1	0.25 P	53.2
19.0	4			40.0			
	3	3.50 P	16.6				
20.0	6			41.0			
					2	0.30 B	55.3
21.0				42.0	3	0.70	

10" CRUSHED STONE SHOULDER COURSE

3" FILL: CLAY LOAM, Dark Gray, Dark Brown and Brown, Trace Gravel, Moist (A-6)

FILL: CLAY, Brown, Gray and Trace to Little Dark Gray, Very Stiff to Stiff to Hard to Medium, Moist (A-6)

(Some Dark Gray and Black and Fibers at 4.5')

(Hit Rock-- Low Recovery at 18.5' to 20')

FILL: CLAY LOAM, Brown, Gray, Trace Dark Gray, Trace Sand and Gravel, Medium to Stiff, Moist (A-6)

(Atterberg Limit)

FILL: CLAY, Brown, Gray, Trace Dark Gray, Trace Sand and Gravel, Medium, Moist (A-6)

6" ORGANIC CLAY, Dark Gray With Dark Brown Peat, Soft, Wet (A-7-5)

12" PEAT, Dark Brown, Fibrous, Soft, Wet (A-8)

18" ORGANIC SILTY CLAY LOAM, Dark Gray, Very Soft to Medium, Wet (A-7-5)

(Organic Content = 4.5%)
(Atterberg Limit)
(Combined Analysis)

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

Page 2 Of 2
Date 6/14/06

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. NB-2
Station 212+85
Offset 12.5' R
Surface El. +702.56+/- 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 %
43.0	6	B/S 1.20 B	21.9	64.0	7		
	2	0.75 P	23.5		8	2.90 B/S	18.3
44.0	4	1.00 P	20.7	65.0	12		
	4	0.80 B/S	19.9				
45.0				66.0			
	3	1.60 B/S					
46.0	4		17.4	67.0			
	7	2.10 B/S					
47.0				68.0			
	7	2.90 B/S	16.9				
48.0	7			69.0			
		3.20 B/S					
49.0				70.0			
	6						
50.0	7	3.10 B/S	17.4	71.0			
	9						
51.0				72.0			
52.0				73.0			
	7						
53.0	10	3.70 B/S	11.3	74.0			
	13						
54.0				75.0			
55.0				76.0			
	7						
56.0	9	3.20 B/S	13.8	77.0			
	11						
57.0				78.0			
58.0				79.0			
	6	3.20 B/S					
59.0	7		14.3	80.0			
	11	5.00 B/S					
60.0				81.0			
61.0				82.0			
	7						
62.0	15	3.25 P	14.6	83.0			
	24						
63.0				84.0			

CLAY, Gray, Trace Dark Gray, Trace Sand and Gravel, Stiff, Moist (A-6)

CLAY LOAM, Gray, Trace Dark Gray, Some Sand, Medium, Moist (A-6)

CLAY LOAM, Gray and Dark Gray, Some Sand, Trace Shale and Pyrite, Medium, Moist (A-6)

CLAY, Gray and Dark Gray, Trace Sand and Gravel, Medium, Moist (A-6)

CLAY, Gray, Trace Sand and Gravel, Stiff to Very Stiff to Hard to Very Stiff, Moist (A-6)

(Hit Rock-- Low Recovery at 61' to 62.5')

(Little Coarse Gravel at 63.5')

End of Boring @ 65.0 feet

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

Page 2 Of 2
Date 6/20/06

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

Boring No. NB-3
Station 213+65
Offset 12.5' R
Surface El. +703.71+/- M.S.L.

Surf. Wat. El.
Groundwater Elev.:
When Drilling 53.5'
at Completion 42.4'
After Hrs

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
43.0	11	B/S		64.0	8	3.00 S	17.1
	5				13		
44.0	8	4.30 B/S	15.4	65.0	21		15.5
	10						
45.0				66.0			
					2		19.3
46.0	12			67.0	9		11.7
	9	2.50 B	15.0		14	5.00 P	16.3
47.0	13			68.0			12.6
48.0				69.0	7		
	4				10	4.50 P	12.6
49.0	6	2.10 B/S	15.6	70.0	13		
	9						
50.0				71.0			
	5				8		
51.0	7	2.60 B/S	15.7	72.0	10	2.70 B	12.8
	12				14		
52.0				73.0			
53.0				74.0	8	2.90 B/S	12.0
	6	2.70 B	14.9		10		
54.0	9			75.0	15	4.60 B/S	
	12	3.10 B/S					
55.0				76.0			
56.0	7			77.0			
	8	1.70 B/S	16.8				
57.0	12			78.0			
58.0				79.0			
	7	3.20 B/S					
59.0	11		14.4	80.0			
	16	4.10 B/S					
60.0				81.0			
61.0	7	4.10 B	14.2	82.0			
	16						
62.0	31	4.50 B/S	18.2	83.0			
63.0				84.0			

(Some Coarse Gravel at 46.5')

SILT, Gray, Very Dense, Moist (A-4)

End of Boring @ 75.0 feet

(Note: The groundwater elevation at the completion of the borehole is not a true water table level as the drillers injected water down the borehole at approximately 65 feet to stabilize the saturated sand layer from heave --Field Geotechnical Engineer's Observation)

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

95TH STREET AT 104TH AVENUE/FLAVIN ROAD NORTHBOUND AND SOUTHBOUND RETAINING WALLS SOIL BORINGS

SCALE: VERT.
HORIZ.

DRAWN BY : MVT
CHECKED BY:

6/7/2010
c:\pw_work\pwidot\triniakosmv\d0101671\retainingwalls.dgn