ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials
Bridge Foundation Boring Log
Sheet 1 of 2

Illinois Route 13 Over the Burlington Northern Santa Fe Railroad
Route: Illinois 13 Structure Number: Proposed M.S.E. Structure Date: 12/15/2003
Section
County: Williamson Location: Illinois Route 13 Checked By: Rob Graeff
Bored By: Bryan Keller

Boring No 2-S
Station 744+51
Offset 19' LT CL WBL
Ground Surface 99.8 Ft

Surf Wat Elev:
Ground Water Elevation
when Drilling 84.7
At Completion 80.6
At: Hrs:

DEPTH	BLOWS	Qu tsf	W%	DEPTH	BLOWS	Qu tsf	W%
Bituminous Shoulder				Very stiff, moist, brown, Silty Clay A-6	3	2.3B	20
98.3				72.8	4		
Stiff, very moist, brown mottled grey, Silty Clay A-6	1			Stiff, moist, brown, Silty Clay A-6 with some Gravel	1		
	3	1.4B	26		7	1.4B	18
95.3	3			70.3	6		
Soft, very moist, grey, Silty Clay Loam A-6 5.0	WH			Very stiff, moist to very moist brown, Silty Clay A-6 with some Pea Gravel 30.0	1		
	2	0.3B	28		4	2.2B	18
	1				5		
92.8				67.8			
Stiff, very moist, grey mottled brown, Clay to Silty Clay A7-6	WH			Hard, moist, brown mottled grey, Silty Clay A7-6 with Sand Layers	2		
	2	1.4S	31		10	4.3S	16
	3				9		
90.3				65.3			
Stiff, moist, brown, Silty Clay A-6 10.0	1			Very stiff, moist, brown mottled grey, Clay Loam A-6 with some Gravel 35.0	2		
	2	1.2B	24		13	3.5B	18
	3				28		
	1			63.3			
	2	1.7S	21	Hard, dry, brown mottled grey, Sandy Clay Shale	3		
	4			61.3	100/8"		
86.3							
Stiff, moist, brown, Clay to Silty Clay A7-6 15.0	1			Bottom of hole = 38.5 ft 40.0			
	2	1.6S	27				
	3			Free water observed at 15.1 ft.			
82.8							
Very stiff, moist, brown mottled grey, Silty Clay A-6	1			Elevation referenced to CL of RT 13 and B.S.F RR ; Assumed Elevation = 100.0 ft			
	2	2.1B	26				
	4			To convert "N" values to "N60" values multiply by 1.25.			
80.3							
Medium, moist, brown, Clay to Silty Clay A7-6 with some Pea Gravel 20.0	WH			45.0			
	2	0.7B	22				
	2						
77.8							
Medium, very moist, brown mottled grey, Silty Clay A-6	WH						
	1	0.6B	28				
	2						
75.3							
25.0	1			50.0			

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail, B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials
Bridge Foundation Boring Log
Sheet 1 of 1

Illinois Route 13 Over the Burlington Northern Santa Fe Railroad
Route: Illinois 13 Structure Number: Proposed M.S.E. Structure Date: 12/17/2003
Section
County: Williamson Location: Illinois Route 13 Checked By: Rob Graeff
Bored By: Bryan Keller

Boring No 3-S
Station 745+30
Offset 19' RT CL EBL
Ground Surface 99.8 Ft

Surf Wat Elev:
Ground Water Elevation
when Drilling 82.8
At Completion 83.8
At: 2.0 Hrs: 91.3

DEPTH	BLOWS	Qu tsf	W%	DEPTH	BLOWS	Qu tsf	W%
Bituminous Shoulder				Soft, moist, brown, Silty Clay Loam A-6 with Sand Layers	2	0.4B	16
98.3				72.8	2		
Medium, very moist, grey, Silty Clay Loam A-6	1			Stiff, moist, brown, Clay to Silty Clay A7-6	1		
	3	0.6B	25		4	1.4S	22
	3				5		
95.3				70.3			
Stiff, very moist, grey mottled brown, Clay A 7-6 5.0	1			Stiff to very stiff, moist, grey mottled brown, Clay to Silty Clay A7-6 30.0	1		
	2	1.4S	29		3	2.0B	18
	3				5		
92.8				67.8			
Medium, very moist, grey, Silty Clay Loam A-6	1			Very stiff, moist, grey, Clay A7-6 68.8	1	2.1S	26
	2	0.6B	27		3		
	3			Hard, dry, grey, weathered Clay Shale	8		
90.3							
Very stiff, moist, brown mottled grey, Clay to Silty Clay A7-6 10.0	1			35.0	2		
	5	2.1B	26		92/12"		
	6			63.3			
87.8				Hard, dry, grey, Clay Shale 62.3	100/6"		
Medium, moist, brown mottled grey, Clay to Silty Clay A7-6	1						
	2	0.9B	23	Bottom of hole = 37.5 ft.			
	4						
85.3				Free water observed at 17.0 ft. 40.0			
Very stiff, very moist, brown mottled grey, Clay to Silty Clay A7-6 with some Pea Gravel 15.0	1						
	2	2.1B	20	Elevation referenced to CL of Rt 13 and B.S.F. RR ;Assumed Elevation = 100.0 ft			
	4						
82.8				To convert "N" values to "N60" values Multiply by 1.25.			
Stiff, moist, brown, Silty Clay A-6	WH						
	3	1.8B	26				
	4						
80.3				45.0			
Medium to stiff, very moist, brown mottled grey, Silty Clay A-6 with some Pea Gravel 20.0	1						
	3	1.0S	31				
	3						
77.8							
Medium, moist, brown mottled grey, Clay to Silty Clay A7-6	WH						
	1	0.9B	23				
	1						
76.3							
25.0	1			50.0			

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail, B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials
Bridge Foundation Boring Log
Sheet 1 of 1

Illinois Route 13 Over the Burlington Northern Santa Fe Railroad
Route: Illinois 13 Structure Number: Proposed M.S.E. Structure Date: 12/17/2003
Section
County: Williamson Location: Illinois Route 13 Checked By: Rob Graeff
Bored By: Bryan Keller

Boring No 4-S
Station 747+41
Offset 19' RT CL EBL
Ground Surface 99.4 Ft

Surf Wat Elev:
Ground Water Elevation
when Drilling 84.9
At Completion 81.9
At: Hrs:

DEPTH	BLOWS	Qu tsf	W%	DEPTH	BLOWS	Qu tsf	W%
Bituminous Shoulder				Stiff, moist, brown mottled grey, Silty Clay A-6	1	1.4S	21
97.9				72.4	2		
Stiff, moist, brown, Silty Clay A-6	2			Very stiff, moist, brown, Silty Clay A-6	1		
	4	1.2B	18		4	2.5S	18
	4				5		
94.9				69.9			
Very stiff, moist, brown mottled grey, Silty Clay A-6 with Coal Chips 5.0	1			Hard, dry, grey, Clay Shale 30.0	100/6"		
	3	2.8S	19	68.9			
	5			Bottom of hole = 30.5 ft.			
92.4							
Medium, moist to very moist, grey, Silt Loam A-6	1			Free water observed at 14.5 ft.			
	3	0.7S	27				
	2			Elevation referenced to CL of RT 13 and B.S.F. RR; Assumed Elevation =100.0 ft.			
89.9							
Soft to medium, very moist, brown, Silty Clay Loam A-6 10.0	WH			To convert "N" values to "N60" values Multiply by 1.25. 35.0			
	1	0.5S	28				
	2						
87.4							
Stiff, very moist, grey mottled brown, Silty Clay A7-6	1						
	2	1.2S	25				
	3						
15.0	WH			40.0			
	3	1.4B	22				
	3						
	WH						
	2	1.6S	21				
	3						
79.9							
Very stiff, moist, brown, Silty Clay A-6 20.0	1			45.0			
	4	3.3S	18				
	4						
	1						
	3	2.1B	21				
	4						
74.9							
25.0	WH			50.0			

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail, B-Bulge S-Shear E-Estimated P-Penetrometer)

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

USER NAME = Gary Davis	DESIGNED - MCC	REVISED -
	CHECKED - ATI	REVISED -
PLOT SCALE =	DRAWN - GLD	REVISED -
PLOT DATE = 12/7/2011	CHECKED - ATI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS IV
STRUCTURE NO. 100-0093 (W.B.) & 100-0094 (W.B.)
SHEET NO.S-370F S-41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(IX-1)VB-1	WILLIAMSON	367	203
		CONTRACT NO. 98859		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = i:\dot\0906603\drawcadd_sheets\structural plans\bmsf rr bridge\BORING LOGS 4.dgn