F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2905	113B-1	WILLIAMSON	87	48
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract 98777

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log
Sheet 1 of 2

Illinois Route 37 Over BN Railroad
Route: ILL 37 Structure Number: 100-0027 Date: 9/3/2002
Section
County: Williamson Location: 1.7 Miles North of Illinois 148 Bored By: Bryan Keller Checked By: Rob Graeff

Boring No 1-S
Station 375+38
Offset 11' LT CL
Ground Surface 539.9 Ft

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

Description	Elev.	Depth	Blow	Qu tsf	W%
Bituminous Pavement	538.3				
Stiff, very moist, brown, Silty Clay A-6	535.3		1 1 1	1.4B	19
Stiff to very stiff, very moist, brown, Clay to Silty Clay A7-6	532.8	5.0	1 1 2	2.0B	20
Very stiff, moist, brown, Silty Clay A-6	527.8		WH 1 3	3.2B	17
Stiff, moist, brown, Silty Clay A-6	522.8	10.0	1 1 2	2.1B	18
Very stiff, moist, brown mottled grey, Silty Clay A-6	520.3	15.0	1 2 4	1.6S	20
Stiff, moist to very moist, brown mottled grey, Silty Clay A-6	517.8	20.0	1 2 3	1.6S	17
Soft to medium, very moist, grey, Silty Clay Loam A-6	515.3	25.0	1 1 1	1.2S	25
Stiff, moist to very moist, brown, Silty Clay A-6	510.3	30.0	1 2 3	0.5B	25
Very stiff, moist, brown, Silty Clay A-6	507.8	35.0	1 2 5	2.1S	17
Very stiff, moist, brown, Clay A7-6 with some Gravel	505.3	40.0	1 4 5	2.5B	20
Very stiff, moist, brown mottled grey, Silty Clay to Clay A7-6 with some Gravel	502.3	45.0	1 3 5	2.1S	19
Hard, dry, brown, Sandstone	499.8	50.0	2 100/4"		
Hard, dry, brown, Sandstone Cored from 40.0 ft to 45.0 ft. 17% Recovery 0% RQD	494.8	55.0	100/1"		
Hard, dry, brown to tan Sandstone Cored from 45.0 ft to 50.0 ft. 97% Recovery 0% RQD	489.8	60.0			

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 2

Illinois Route 37 Over BN Railroad
Route: ILL 37 Structure Number: 100-0027 Date: 9/10/2002
Section 113 V.B. F.
County: Williamson Location: 1.7 Miles North of Illinois 148 Bored By: Bryan Keller Checked By: Rob Graeff

Boring No 2-S
Station 376+09
Offset 10' RT CL
Ground Surface 540.7 Ft

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

Description	Elev.	Depth	Blow	Qu tsf	W%
Core Bridge Deck	539.7				
Suspend Augers		5.0			
		10.0			
		15.0			
		20.0			
Medium, very moist, brown, Silty Clay A-6	518.7		WH WH WH	0.9B	24
Soft to medium, very moist, brown, Silty Clay Loam A-6	516.2	25.0	WH 1	0.5B	24
Medium, very moist, brown, Silty Clay A-6 with some Gravel	513.7		WH 1 1	0.8B	24
Soft, very moist, brown, Silty Clay A-6 with some Gravel and Boulders	511.2	30.0	WH WH WH	0.4B	26
Very stiff, very moist, brown, Silty Clay A-6	508.7		WH 1 2	2.2S	20
Stiff, very moist, brown mottled grey, Silty Clay A-6	506.2	35.0	1 1 1	1.1S	23
Stiff, moist, brown mottled grey, Clay to Silty Clay A7-6	503.7		1 1 2	1.4S	20
Hard dry, brown, Sandstone	501.2	40.0	100/10"		
Hard, dry, brown to tan, Sandstone with a Clay Seam Cored from 40.5 ft to 45.5 ft. 97% Recovery 72% RQD	500.2	45.0			
Hard, dry, tan to brown, Sandstone with Clay Seams Cored from 45.5 ft to 50.5 ft. 60% Recovery 42% RQD	495.2	50.0			

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

Sheet 2 of 2

Route: ILL 37 Date: 9/3/2002
Section:
County: Williamson

Boring No: 1-S
Station: 375+38
Offset: 11' LT CL
Ground Surface: 539.9 Ft

Description	Elev.	Depth	Blow	Qu tsf	W%
Hard dry, brown, Sandstone with a Clay Seam Cored from 50.0 ft to 55.0 ft. 47% Recovery 71% RQD	484.8	55.0			
Hard, dry, brown to grey Sandstone Cored from 55.0 ft to 60.0 ft 55% Recovery 33% RQD	479.8	60.0			
Hard, dry, grey, Sandstone with Clay Shale Seams Cored from 60.0 ft to 65.0 ft. 37% Recovery 18% RQD	474.8	65.0			
Bottom of hole = 65.0 ft					

No free water observed.

Elevation referenced to Back of Abutment Sta 375+68 CL
Elevation = 540.29

To convert "N" values to "N60" values multiply by 1.25.

Sheet 2 of 2

Route: ILL 37 Date: 9/10/2002
Section: 113 V.B. F.
County: Williamson

Boring No: 2-S
Station: 376+09
Offset: 10' RT CL
Ground Surface: 540.7 Ft

Description	Elev.	Depth	Blow	Qu tsf	W%
Hard, dry, brown to tan, Sandstone with Clay Layers Cored from 50.5 ft to 55.5 ft. 52% Recovery 53% RQD	490.2				
Hard, dry, grey to brown, Sandstone with a Clay Seam Cored from 55.5 ft to 60.5 ft. 100% Recovery 89% RQD	485.2	55.0			
Bottom of hole = 60.5 ft.	480.2	60.0			

No free water observed.

Elevation referenced to Center of Existing Structure at N. Abut Elevation = 540.3 ft

To convert "N" values to "N60" values multiply by 1.25.

REVISIONS	
NAME	DATE

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORING LOGS 1
F.A.S. ROUTE 2905 (IL. RTE. 37)
ILLINOIS ROUTE 37 OVER
BN/SF RAILROAD
SECTION 113B-1 STA. 376+46.00
STR. NO. 100-0090 - WILLIAMSON COUNTY

SCALE: NONE DRAWN BY: GLD
DATE: 12/14/07 CHECKED BY: WLB

L:\IDOT\060660\SN_1000090\draw\sheets\BORING LOGS 1.dgn
12/5/2007