CONTRACT NO. 74088

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	MARION	17	17A
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* VARIOUS ROUTES
** D7 SIGNAL MODERIZATION 2006-2

Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. D-7

SOIL BORING LOG

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Date 4/1306

ROUTE US 51 DESCRIPTION SB US 51 & Broadway - NW Corner LOGGED BY E. Sandschafer

SECTION D7 Signal Modification 2006-2 LOCATION SE 1/4, SEC. 7, TWP. 1 N, RNG. 1 E, 3 PM

COUNTY Marion DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. gINT File
Station 061-ts02

BORING NO. 3
Station *
Offset 21.00ft W of US 51 CL
Ground Surface Elev. 99.63 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ___ Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
1 36" Asphalt on 8" Concrete pavement.	98.83				
Stiff to medium, damp, red/gray, CLAY.			1		
			1	1.1	29
			2	B	
		-5	1		
			3	1.1	26
			4	B	
			0		
			2	0.8	22
			3	B	
		-10	2		
			3	1.2	22
Trace fine gravel.			4	B	
	87.63				
Stiff, damp, red mottled gray, LOAM w/trace fine gravel.			2		
			3	1.2	21
			4	B	
	84.93	-15	1		
Soft to medium, red mottled gray, SANDY LOAM w/trace fine gravel.			3	0.5	15
			3	B	
	82.63				
Soft, very damp, gray mottled red, SILTY LOAM w/gravel.			1		
	81.63		2	0.3	28
Very dense, moist, gray, SANDY CLAY SHALE.			17	B	
	79.73	-20	50/3"		8

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Extent of exploration.			50/2"		
			50/0"		
Benchmark: TBM = Center of intersection of SB US 51 and Broadway = assumed 100.00'.					
* Location B3: 49' N of Broadway Centerline, 21' W of SB US 51 Centerline. US 51 station 1664+77		-25			
		-30			
		-35			
		-40			

Latitude N 38 deg 35.65 min. Longitude W 89 deg 07.87 min. Map Datum WGS 84

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
Division of Highways
Ill. Dept. of Trans. D-7

SOIL BORING LOG

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Date 4/1306

ROUTE US 51 DESCRIPTION SB US 51 & Broadway - SE Corner LOGGED BY E. Sandschafer

SECTION D7 Signal Modification 2006-2 LOCATION SE 1/4, SEC. 7, TWP. 1 N, RNG. 1 E, 3 PM

COUNTY Marion DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. gINT File
Station 061-ts02

BORING NO. 4
Station *
Offset 21.00ft E of US 51 CL
Ground Surface Elev. 99.38 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 82.4 ft
Upon Completion Hole Caved ft
After ___ Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
1 58" Asphalt on 7" Concrete pavement.	98.68				
Brown, CLAY.					
	97.38				
Very soft, very damp, gray, SILTY LOAM.			0		
	96.38		0	0.2	28
Medium to stiff, damp, gray/red, CLAY w/silt.			2	B	
		-5	1		
			3	1.0	25
			4	B	
			2		
			2	0.8	23
			3	B	
		-10	2		
			4	1.5	22
			4	B	
			2		
With sand and gravel.			3	0.7	24
			4	B	
	84.88				
Stiff, damp, red, CLAY TILL.		-15	1		
			3	1.7	16
			4	B	
	82.38				
Brown, fine grained, fluffy, SAND.	81.88		2		
7% passing #200 sieve.			6	2.4	15
Very stiff, damp, brown, CLAY TILL.			11	B	
		-20	7		

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Very stiff, damp, brown, CLAY TILL. (continued)			12	2.9	16
			17	B	
	77.38				
Very dense, very moist, gray, SANDY CLAY SHALE.	76.78		50		
Extent of exploration.			50/1"		8
			50/0"		
Benchmark: TBM = Center of intersection of SB US 51 and Broadway = assumed 100.00'.		-25			
* Location B4: 40' S of Broadway Centerline, 21' E of SB US 51 Centerline. US 51 station 1665+62					
		-30			
		-35			
		-40			

Latitude N 38 deg 35.65 min. Longitude W 89 deg 07.87 min. Map Datum WGS 84

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)

Added Sheet 5-31-06

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS
SB U.S. 51 & BROADWAY

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

PLOT DATE = 5/24/2006
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = swarburn