STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte. 327	13B-2	Marion	78	34
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 17
17 SHEETS

Contract #94964

Illinois Department of Transportation
Division of Highways
IL Dept. of Transportation

SOIL BORING LOG

Page 1 of 2
Date 10/20/04

ROUTE FAP 327 (US 50) DESCRIPTION Dums Creek LOGGED BY E. Sandschafer
SECTION 13 B-2 LOCATION NW 1/4, SEC. 10, TWP. 2 N, RNG. 4 E, 3 PM
COUNTY Marion DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 061-0040
Station ~~719+00~~ 336+33
BORING NO. 1 (W Abut)
Station ~~719+80~~ 735+58
Offset 9.00ft Lt ℄
Ground Surface Elev. 469.39 ft

Surface Water Elev. 453.63 ft
Stream Bed Elev. 452.39 ft
Groundwater Elev.:
First Encountar 444.9 ft
Upon Completion Washed ft
After ___ Hrs. samples ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.25" asphalt over 9.25" concrete pavement.	467.89				
Stiff, damp, gray mottled red, SILTY CLAY.			2		
			4	2.3	19
			5	B	
		-5	2		
			2	1.2	21
			3	B	
			2		
			4	1.3	21
			3	B	
Estimated lower elevation of embankment.	459.89				
Medium, damp, gray, SILTY LOAM.		-10	1		
			2	0.7	25
			3	B	
Stiff to medium, damp, gray, SILTY CLAY.	457.39				
			3		
			3	1.3	23
			5	B	
		-15	2		
			3	0.8	27
			4	B	
			1		
	451.39		2	0.3	27
Soft, very damp, brown mottled gray, SILTY LOAM.			3	B	
	449.89	-20	2		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium, damp, brown mottled gray, SILTY CLAY. *(continued)*			2	0.8	23
			4	B	
Medium, damp, brown mottled gray, SILTY LOAM.	447.39		1		
			1	0.5	26
			3	B	
Medium to stiff, damp, brown mottled gray, SILTY CLAY.	444.89	-25	0		
Red marbled gray, SANDY LOAM.	444.39		1	1.0	20
			3	B	
Very soft, wet, gray, SILTY LOAM.	442.39		0		
Gray, SANDY LOAM.	441.59		1	0.1	23
			2	B	
** Note: sampler sank 4" into seat, then 30 blows/2".*	439.69				
Very loose, wet, gray, fine grained, SAND. *5% passing #200 sieve.*	439.39 / ~~439.19~~	-30	*30/2"		
Soft, gray, moderately weathered, SANDSTONE.			50/1"		
Borehole continued with rock coring.			50/1"		
		-40			

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
IL Dept. of Transportation

ROCK CORE LOG

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Date 10/20/04

ROUTE FAP 327 (US 50) DESCRIPTION Dums Creek LOGGED BY E. Sandschafer
SECTION 13 B-2 LOCATION NW 1/4, SEC. 10, TWP. 2 N, RNG. 4 E, 3 PM
COUNTY Marion CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 061-0040
Station ~~719+00~~ 336+37
BORING NO. 1 (W Abut)
Station ~~719+80~~ 735+58
Offset 9.00ft Lt ℄
Ground Surface Elev. 469.39 ft

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner
Core Diameter 2.06 in
Top of Rock Elev. 439.19 ft
Begin Core Elev. 439.19 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray w/ thin black layering, soft to medium hardness, moderately weathered, SANDSTONE. Scratches easily.	439.19			87	57	0.5	
		-35					
				100	35	0.5	
		-40					
Gray w/ few thin black layers, medium hardness, moderately weathered, SANDSTONE.	429.19			100	82	0.6	950
**Two rock-core samples (41.5' to 42.0' & 43.5' to 44.0' depths) average strength = 950 tsf*							
	424.19	-45					
Extent of exploration.							
Benchmark: BM 100 RR spike in first PP SW of Dums Creek Bridge = 463.39', Station 335+37 Rt 59', provided by IDOT Program Development.							
		-50					

Color pictures of the cores ___
Cores will be stored for examination until ___
The "Strength" column represents the unlaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

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SOIL BORING LOG

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ROUTE FAP 327 (US 50) DESCRIPTION Dums Creek LOGGED BY E. Sandschafer
SECTION 13 B-2 LOCATION NW 1/4, SEC. 10, TWP. 2 N, RNG. 4 E, 3 PM
COUNTY Marion DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 061-0040
Station ~~719+00~~ 336+33
BORING NO. 2 (E Abut)
Station ~~718+29~~ 337+10
Offset 10.00ft Lt ℄
Ground Surface Elev. 469.38 ft

Surface Water Elev. 453.63 ft
Stream Bed Elev. 452.39 ft
Groundwater Elev.:
First Encountar 444.9 ft
Upon Completion Washed ft
After ___ Hrs. samples ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.75" asphalt over 11.25" concrete pavement.	467.68				
Gravel CA6 subbase.	467.06		5		
Soft, very damp, gray w/ red specks, SILTY LOAM.			6		9
			4		
		-5	0		
			1	0.3	25
			1	B	
	462.38				
Medium to stiff, damp, gray mottled olive, SILTY CLAY.			0		
			1	0.8	24
			2	B	
		-10	0		
			2	1.1	22
			3	B	
	457.38				
Very soft to medium, very damp, gray mottled red, SILTY LOAM w/ few wood pieces.			0		
			0	0.2	29
			3	B	
		-15	0		
			2	0.6	22
			3	B	
	452.38				
Medium, damp, gray, SILTY CLAY w/ one wood piece and some black specks.			0		
			0	0.7	28
			2	B	
		-20	2		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium, damp, gray, SILTY CLAY w/ one wood piece and some black specks. *(continued)*			2	0.8	25
			4	B	
Medium, very damp, red mottled gray, SILTY LOAM w/ black specks.	447.38		0		
			1	0.5	24
			2	B	
Very soft, wet, red w/ gray layering, SANDY LOAM.	445.98				
		-25	0		
			0	0.1	23
			1	B	
			0		
			0	0.1	25
			1	B	
	439.68				
Very soft, wet, gray, SILTY LOAM w/ many wood pieces.		-30	0		
			0	0.1	102
			1	B	
	434.88				
Soft, very damp, gray, SILT.		-35	0		
			0	0.4	28
			0	B	
		-40	0		

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)

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SOIL BORING LOG

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ROUTE FAP 327 (US 50) DESCRIPTION Dums Creek LOGGED BY E. Sandschafer
SECTION 13 B-2 LOCATION NW 1/4, SEC. 10, TWP. 2 N, RNG. 4 E, 3 PM
COUNTY Marion DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 061-0040
Station ~~719+00~~ 336+33
BORING NO. 2 (E Abut)
Station ~~718+29~~ 337+10
Offset 10.00ft Lt ℄
Ground Surface Elev. 469.38 ft

Surface Water Elev. 453.63 ft
Stream Bed Elev. 452.39 ft
Groundwater Elev.:
First Encountar 444.9 ft
Upon Completion Washed ft
After ___ Hrs. samples ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Soft, very damp, gray. SILT. *(continued)*			0	0.3	31
			1	B	
	424.88				
Medium, very damp, gray, SANDY LOAM w/ gravel.		-45	5		
			11	0.7	17
			29	B	
	423.88				
Soft to very dense, moist, gray, SANDSTONE.					
	419.68	-50	50/1"		
Extent of exploration.			50/0"		
			50/1"		
Benchmark: BM 100 RR spike in first PP SW of Dums Creek Bridge = 463.39', Station 336+37 Rt 59', provided by IDOT Program Development.		-55			
		-60			

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)

DESIGNED	-
CHECKED	-
DRAWN	PRT
CHECKED	MAB

HORNER & SHIFRIN, INC.
ENGINEERS ■ ARCHITECTS ■ PLANNERS

BORING LOGS
F.A.P. ROUTE 327 - SEC. 13B-2
MARION COUNTY
STATION 336+33.00
STRUCTURE NO. 061-0090