ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 662 (TR 61)	*	CUMBERLAND	85	66
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 10
10 SHEETS

*Section 01-00061-00-BR Contract #95552

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

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Date 9/18/07

ROUTE FAS 662 (TR 61) DESCRIPTION Box Culvert - TR 61 Extension LOGGED BY E. Sandschafer

SECTION 01-00061-00-BR LOCATION E 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM

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

STRUCT. NO. N/A
Station

BORING NO. BC 1
Station 477+00
Offset 20.00ft Lt
Ground Surface Elev. 543.73 ft

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

Groundwater Elev.:
First Encounter 529.2 ft
Upon Completion Caved @ 14.0 ft
After 24 Hrs. 529.7 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very soft to medium, very moist, brown, SANDY LOAM.			9		
			7 9	0.2 S	6
		-5	4		
			3 4	0.8 S	11
	536.53		3		
Loose, damp, tan, fine grained, SAND. 8% passing #200 sieve.			2 3		6
		-10	2		
3% passing #200 sieve.			3 2		4
			2		
4% passing #200 sieve.	530.53		2 2		4
Damp, dark brown, SILTY LOAM.	529.23				
Loose, wet, brown, fine grained, SAND. 2% passing #200 sieve.		-15	1 2 3		22
Medium, wet, brown, gravelly SAND. 3% passing #200 sieve.	526.73		2 4 8		15
	523.73	-20	17		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium, wet, brown, gravelly SAND. 5% passing #200 sieve.	522.73		10 7		7
Extent of exploration.					
Benchmarks: Iron Pin Sta 460+26.17, Rt 27.64' = 546.57' Iron pin Sta 480+92.08, Lt 1.36' = 545.90' Iron Pin Sta 485+51.24, Rt 20.78' = 594.37' Provided by Cumberland Co. Engineer.		-25			
		-30			
		-35			
		-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
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 9/18/07

ROUTE FAS 662 (TR 61) DESCRIPTION Box Culvert - TR 61 Extension LOGGED BY E. Sandschafer

SECTION 01-00061-00-BR LOCATION E 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM

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

STRUCT. NO. N/A
Station

BORING NO. BC 2
Station 478+25
Offset 20.00ft Rt
Ground Surface Elev. 542.44 ft

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

Groundwater Elev.:
First Encounter 530.4 ft
Upon Completion 534.8 ft
After 24 Hrs. 534.0 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Soft to medium, damp, brown, SANDY LOAM.			4		
			3 3	0.5 S	8
		-5	2		
			3 2	0.4 S	20
	535.24		2		
Medium to very soft, very damp, brown, SILTY LOAM.			1 2	0.4 B	23
		-10	0		
			1 0	0.1 B	26
	529.94		0		
Brown, SANDY LOAM.	529.44		2 3	0.1 B	23
Loose, wet, brown, fine grained, SAND. 5% passing #200 sieve.		-15	2		
			2 3		23
	525.44		35		
Very dense, wet, tan, fined grained, SAND. 12% passing #200 sieve.			34 25		18
	522.44	-20	14		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium, wet, tan, fined grained, SAND. 6% passing #200 sieve.	521.44		10 9		8
Extent of exploration.					
Benchmarks: Iron Pin Sta 460+26.17, Rt 27.64' = 546.57' Iron pin Sta 480+92.08, Lt 1.36' = 545.90' Iron Pin Sta 485+51.24, Rt 20.78' = 594.37' Provided by Cumberland Co. Engineer.		-25			
		-30			
		-35			
		-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)

Latitude N 88 deg 08.676 min. Longitude W 39 deg 19.450 min. Map Datum WGS 84

Latitude N 88 deg 08.648 min. Longitude W 39 deg 19.488 min. Map Datum WGS 84

04/01/2008 02:50 PM
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LAYOUT	MRM	11/16/07
DRAWN	MGM	01/30/08
REVIEWED	MRM	01/30/08

BORINGS
F.A.S. 662 (TR 61) EMBARRAS RIVER OVERFLOW STRUCTURE
CUMBERLAND COUNTY
SECTION 01-00061-00-BR
STA. 477+62
STRUCTURE NUMBER 018-3194
PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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JOB NO. 01S2021B

DATE 02/04/08