

SOIL BORING LOG

Date 10/23/08

ROUTE FAS 2704 DESCRIPTION Old US 50 over Brush Creek LOGGED BY E. Sandschafer
SECTION 12B-1(2) LOCATION NW 1/4, SEC. 2, TWP. 2 N, RNG. 5 E, 3 PM
COUNTY Clay DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	Station	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)
013-0023	336+46					Surface Water Elev. 498.78 ft				
						Stream Bed Elev. 498.36 ft				
1 East	336+19					Groundwater Elev.: First Encounter Dry ft				
	9.00ft Rt					Upon Completion Dry ft				
	510.80 ft					After 24 Hrs. 499.0 ft				
		509.40				7 3/4" asphalt on 9" concrete pavement.		50/1"		12
						Stiff, damp, red/brown, CLAY.		50/1"		
			4							
			5	2.2	18	Very dense, moist, gray, SANDSTONE.	488.80	50/5"		5
			7	B		Extent of exploration.	488.30	50/1"		
								50/1"		
			3			Benchmark: BM 100 RR spike in PP on South side of Old US 50, Sta 354+90, 28.5' Lt = 512.53' elevation. Provided by Program Development.				
			5	1.7	16					
			6	B						
		503.80								
			3			Medium, damp, red marbled gray, SILTY LOAM.				
			2	0.7	20					
			3	B		* Note: Hole caved at 12.0' depth at 24 hours.				
		501.30								
			3			Very soft, damp, red/brown/gray, SANDY LOAM.				
			3	0.2	20					
			5	B						
						With many small Gravel.				
			6	0.1	15					
			7	S						
			2							
			2	0.3	16					
			2	B						
		493.80								
			3			Stiff, damp, gray marbled red, SANDY CLAY TILL.				
			8	1.2	16					
		492.40								
			15	B		Gray, SANDSTONE.				
		491.30								
			50							

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)

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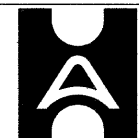
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013-0023	336+46					Surface Water Elev. 498.78 ft				
						Stream Bed Elev. 498.36 ft				
2 West	336+73					Groundwater Elev.: First Encounter Dry ft				
	8.50ft Rt					Upon Completion Dry ft				
	510.61 ft					After 24 Hrs. 500.6 ft				
		509.11				8 1/2" asphalt on 9 1/2" concrete pavement.		50/4"		10
						Stiff, damp, gray mottled brown, CLAY.		50/1"		
			3							
			3	1.7	18	Very dense, moist, brown, SANDSTONE.	488.61	50/5"		7
			4	B		Very dense, moist, gray, SANDY CLAY SHALE.	487.51	50/4"		
						Extent of exploration.		50/4"		
		506.11								
			1			Soft, damp, gray, SILTY CLAY.				
			1	0.3	24					
			2	B		Benchmark: BM 100 RR spike in PP on South side of Old US 50, Sta 354+90, 28.5' Lt = 512.53' elevation. Provided by Program Development.				
		503.61								
			1			Medium to very soft, very damp, gray, SILTY LOAM.				
			2	0.6	26					
						* Note: Hole caved at 10.5' depth at 24 hours.				
			0							
			0	0.1	26					
		499.91				Very soft, wet, brown/gray, SANDY LOAM.				
			0	B						
			1							
			1	0.1	22					
			0	B						
			0							
			3	0.3	15					
			4	B		Medium, damp, red/gray/brown, CLAY LOAM TILL.				
		494.91								
			1							
			3	0.7	15					
			9	B						
		490.61								
			15							

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The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BORING LOGS
STRUCTURE NO. 013-2013



Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

SHEET NO. 5	F.A.S. RTE. 2704	SECTION 12B-1(2)	COUNTY CLAY	TOTAL SHEETS 39	SHEET NO. 27
5 SHEETS	CONTRACT NO. 74116		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		