

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

**SOIL BORING LOG** Page 1 of 2  
Date 06/03/08

ROUTE FAP 327 DESCRIPTION Structure Replacement - US 50 over Lackey Creek LOGGED BY SCI

SECTION 15B-1 LOCATION ~0.2 mile E of Union (MO) Pacific RR; SW 14, SEC. 12, TWP. 2N, RNG. 2E

COUNTY Marion DRILLING METHOD CME 55 wHSA HAMMER TYPE Automatic

STRUCT. NO. 061-0036 (Existing) Station 1251+66  
BORING NO. B-1 Station 1251+43  
Offset 13 ft Rt  
Ground Surface Elev. 519.8 ft

DEPTH (ft)	LOG	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	LOG	UCS (tsf)	MOISTURE (%)	DESCRIPTION
0				ASPHALT - 12 inches	0				
1				FILL: Brown, low plastic sandy clay (A-6)	1				
2		0.5	13		2		0.9	25	
516.8				(No recovery - grab sample of auger cuttings obtained and PP test performed on disturbed sample)	5		11	S/15	
516.8				FILL: Brown, low plastic silty clay, some sand (A-6)	11				
516.8		1			11		4		
516.8		1	0.5	19	11		3	2.4	14
516.8		2	B		11		4	B	
516.8				Becomes brown and greenish gray	11		5		
516.8		1			11		7	3.3	14
516.8		2	B		11		11	B	
511.8				SILTY CLAY: Gray and brown, low plastic (A-6)	11				
511.8		0			11		4		
511.8		2	0.6	22	11		7	2.9	14
511.8		2	B		11		10	B	
509.3				CLAY: Brown, high plastic, some sand (A-7)	11				
509.3		0			11		7		
509.3		1			11		10	2.8	12
509.3		2	B		11		10	S/15	
504.3				SANDY CLAY: Reddish brown and gray, low plastic (A-4)	11				
504.3		2			11		2		
504.3		4			11		3	1.2	21
504.3		5			11		5	B	
503.1				SAND: Brown, fine to medium, trace to some clay (A-2)	11				
503.1		1			11		2		
503.1		2	0.8	21	11		3	1.1	21
503.1		2	B		11		3	B	
500.8					11		5		
500.8		2			11		5		
500.8		2	B		11		5		
500.8		2	B		11		5		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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Ground Surface Elev. 519.8 ft

DEPTH (ft)	LOG	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	LOG	UCS (tsf)	MOISTURE (%)	DESCRIPTION
0				CLAY: Brown, high plastic, trace sand, tree limb (A-7) (continued)	0				
477.8					0				
477.8				SILTY CLAY: Brown, low plastic, trace sand (A-7)	0				
477.8		0			0				
477.8		2	0.8	21	0		3	1.3	21
477.8		4	B		0		4	B	
477.8				CLAY: Brown and greenish gray, high plastic, some sand, trace gravel (A-7)	0				
477.8		0			0				
477.8		3	1.3	21	0		1	1.1	21
477.8		4	B		0		3	B	
477.8				Becomes brown	0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1			0				
477.8		3	1.3	19	0		1	1.1	21
477.8		4	B		0		3	B	
477.8					0				
477.8		1							