



Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

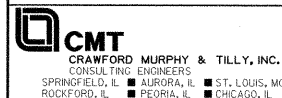
Date 11/9/09

ROUTE 331 DESCRIPTION IL Route 13 over BNSF Railroad near Marathon Drive LOGGED BY KEG
SECTION LOCATION Marion, SECS. 10SW & 15NW, TWP. 9S, RNG. 2E
COUNTY Williamson DRILLING METHOD CME 55LC w/HSA HAMMER TYPE Automatic

STRUCT. NO.	DEPTH	BLOWS	UCS	MOIST	Surface Water Elev.	DEPTH	BLOWS	UCS	MOIST
Station	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
					Stream Bed Elev.				
BORING NO. SB-1					Groundwater Elev.:				
Station 1740+97.70					First Encounter 425.7 ft				
Offset 63.84ft Lt					Upon Completion 421.2 ft				
Ground Surface Elev. 444.2 ft					After Hrs.				
GRASS, TOPSOIL, & CRUSHED ROCK - 12 inches	443.22				CLAY: Gray and brown, trace to some sand				
FILL: Brown and gray, silty clay, trace rock, asphalt (A-7)		3	2.5	25	(A-7) (continued)		WH		
	441.22				Some sand, trace fine gravel		1	0.5	20
CLAYEY SILT: Grayish brown (A-4)							4	P	
		2							
		1	0.0	31			3		
		2	B				4	1.9	18
	438.72						6	B	
CLAY: Gray and brown, trace sand (A-7)									
			2.3	25					
Shelby tube - 13 inches recovery. Unconfined compression strength test performed with results shown in Qu and Moist. columns. Dry density - 100.4 pounds per cubic foot.	436.22								
		2			CLAYEY SHALE: Brown and gray		3	-	21
		3	1.2	21			50/1"		
SILTY CLAY: Gray and brown, trace to some sand (A-7)		4	B				50/1"		
Becomes grayish brown									
		2	0.9	21					
		3	B						
	431.22								
CLAY: Gray and brown, trace to some sand (A-7)		2							
		3	1.6	23					
		3	B						
Becomes brown and gray									
		2							
		3	2.6	19					
		5	B						
		2							
		3	1.6	21					
		4	B						

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)



FILE NAME = L:\1001\98859\Draw\CADD_Sheets\STRUCTURAL_PLANS\MSE_WALLS\100-W001\100W001-98859-014-Borings.dgn
USER NAME = Gary Davis
DESIGNED - JMW
CHECKED - REB
DRAWN - AJK
PLOT SCALE = 1.0000 "/>

REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 100-W001

SHEET NO. 14 OF 17 SHEETS

F.A.P. RTE. 331	SECTION (1X-1) VB-1, B-1, N-4, R-3	COUNTY WILLIAMSON	TOTAL SHEETS 367	SHEET NO. 253
CONTRACT NO. 98859			ILLINOIS FED. AID PROJECT	