



SOIL BORING LOG

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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 65LC w/HSA HAMMER TYPE Automatic

STRUCT. NO.	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH	BLOW COUNT	UCS	MOISTURE	SPT	Surface Water Elev.		Groundwater Elev.		DEPTH	BLOW COUNT	UCS	MOISTURE	SPT
										ft	ft	ft	ft					
	SB-4	743+60.8	56.00ft L1	445.74	(ft)	(/ft)	(tsf)	(%)			432.2	432.2						
GRASS, TOPSOIL, & CRUSHED ROCK - 12 inches																		
FILL: Brown, clayey silt, trace sand, organics (A-4)																		
SILTY CLAY: Grayish brown, trace sand (A-6)																		
CLAY: Brown and grayish brown (A-7)																		
SILTY CLAY: Gray and brown (A-6)																		
CLAY: Brown and grayish brown (A-7)																		
SILTY CLAY: Gray and brown (A-6)																		
CLAY: Brown and grayish brown (A-7)																		
CLAYEY SHALE: Tan and brown																		
Becomes brown and gray, trace sand																		
Becomes brown, some sand, trace fine gravel																		

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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										ft	ft	ft	ft					
	SB-4	743+60.8	56.00ft L1	445.74	(ft)	(/ft)	(tsf)	(%)			432.2	432.2						
CLAYEY SHALE: Tan and brown (continued)																		
Becomes gray																		
CLAYEY SHALE: Tan and brown																		

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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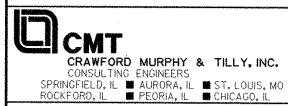
COUNTY Williamson DRILLING METHOD CME 65LC w/HSA HAMMER TYPE Automatic

STRUCT. NO.	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH	BLOW COUNT	UCS	MOISTURE	SPT	Surface Water Elev.		Groundwater Elev.		DEPTH	BLOW COUNT	UCS	MOISTURE	SPT
										ft	ft	ft	ft					
	SB-7	745+27.6	56.00ft R1	446.20	(ft)	(/ft)	(tsf)	(%)			425.2	429.2						
GRASS, TOPSOIL, & CRUSHED ROCK - 12 inches																		
No Recovery																		
CLAY: Grayish brown and brown, trace to some sand (A-7) (continued)																		
SANDY CLAY: Brown, trace fine gravel (A-4)																		
CLAY: Grayish brown, trace sand (A-7)																		
SILTY CLAY: Grayish brown, trace sand (A-6)																		
CLAY: Gray, trace sand (A-7)																		
SILTY CLAY: Grayish brown and brown, some sand (A-7)																		
CLAY: Grayish brown and brown, trace to some sand (A-7)																		
Becomes brown, trace fine gravel																		
Very hard drilling at 38.5 feet.																		

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 = I:\data\9866803.dwg\cadd_sheets\structural\plans\1000_1.rvt



CRAWFORD MURPHY & TILLY, INC. CONSULTING ENGINEERS

USER NAME = Gary Davis DESIGNED - MCC CHECKED - ATI DRAWN - GLD

REVISED - REVISED - REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS I STRUCTURE NO. 100-0093 (W.B.) & 100-0094 (E.B.)

F.A.P. RTE. 331 SECTION (1X-1)VB-1 COUNTY WILLIAMSON TOTAL SHEETS 367 SHEET NO. 200 CONTRACT NO. 98859

SHEET NO. S-340F S-41 SHEETS ILLINOIS FED. AID PROJECT