

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774		EFFINGHAM	344	124B

SHEET NO. 7  
OF 14 SHEETS

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT  
• 107WRS-1, 107BY, 107BY-1 & 107B-2  
CONTRACT NO. 94827



SKS ENGINEERS, INC.  
SOIL BORING LOG

Page 1 of 1  
Date 04/23/2001

ROUTE IL Rt. 33 DESCRIPTION Retaining Wall LOGGED BY T. Skinner/D. Baldwin  
SECTION 107 WRS-1 LOCATION Effingham SEC. TWP. RNG. PM  
COUNTY Effingham DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Safety

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	E	L	C	O
	P	O	S	I	ft	P	O	S	I
BORING NO.	T	W	S	S	Groundwater Elev.:	T	W	S	S
Station	H	S	Qu	T	First Encounter	H	S	Qu	T
Offset			(tsf)	(%)	Upon Completion			(tsf)	(%)
Ground Surface Elev.	ft	(ft)	(/6")		After 24 Hrs	ft	(ft)	(/6")	(tsf)
SILTY CLAY LOAM - Gray-Brown, moist, stiff, low plasticity, little sand, trace gravel, organics - A-6	5			14	21				13
- brown	3			13					
- mottled brown-gray	9								
	-5	4		10					-26
	5								
	7								
	7								
SILTY CLAY LOAM - Gray-Brown, moist, hard, low plasticity, trace-little sand, trace gravel, organics - A-6	11			9					
	27								
	33								
	9.5			60+					
SILTY CLAY LOAM - Brown, moist, hard, low plasticity, some sand, trace gravel - A-6	-10			7					-30
- organics	26								
	60+								
	14			8					
	60+								
EXTREMELY WEATHERED SANDSTONE - Brown, moist, very dense, fine-medium, trace gravel - A-1-B	-15			4					-35
	30								
	60+								
	60+			12					
	60+								
	-20								-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 137 (3/01)



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SOIL BORING LOG

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COUNTY Effingham DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Safety

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	E	L	C	O
	P	O	S	I	ft	P	O	S	I
BORING NO.	T	W	S	S	Groundwater Elev.:	T	W	S	S
Station	H	S	Qu	T	First Encounter	H	S	Qu	T
Offset			(tsf)	(%)	Upon Completion			(tsf)	(%)
Ground Surface Elev.	ft	(ft)	(/6")		After 24 Hrs	ft	(ft)	(/6")	(tsf)
SILTY CLAY LOAM - Reddish Brown, moist, firm, low-medium plasticity, trace sand, trace gravel, organics - A-6	3			26	21				12
- mottled gray-brown, stiff	3								
- stiff-very stiff	4	1.2		25					3.1 11
	5								29 60+
	-5	8		15					-25 30 60+
	8								7.0 9
	8								
	7								
SILTY CLAY LOAM - Mottled Gray-Brown, moist, hard, low plasticity, trace-little sand, trace gravel - A-6	12			9					12
	16								
	9								
	-10	12		13					-30 15 16
	19								27 31
	31								
End of Boring @ 31 ft. Boring backfilled with spoil and capped with concrete cylinder upon completion	8			12					
	12	3.4							
	14								
	14.5								
SILTY CLAY LOAM - Mottled Gray, moist, hard, low plasticity, trace-little sand, trace gravel - A-6	-15			8					-35
	45								
	15+								
Water added for drilling @ 9.25 ft.	30			7					
	60+								
	19.5								
SANDSTONE - Flag	-20			60+					-40

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COUNTY Effingham DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Safety

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	E	L	C	O
	P	O	S	I	ft	P	O	S	I
BORING NO.	T	W	S	S	Groundwater Elev.:	T	W	S	S
Station	H	S	Qu	T	First Encounter	H	S	Qu	T
Offset			(tsf)	(%)	Upon Completion			(tsf)	(%)
Ground Surface Elev.	ft	(ft)	(/6")		After 24 Hrs	ft	(ft)	(/6")	(tsf)
SILTY CLAY LOAM - Gray-Brown, moist, firm, low-plasticity, little sand, trace gravel, organics - A-6	2			18	60+				8
- mottled brown-gray, stiff	3								
- very stiff	4								
	5	1.8		12					12 50 10+
	6								3.3 12
	-5	5		13					-25 11 31 29+
	8	3							5.5 18
	10								
	7								
SILTY CLAY LOAM - Mottled Gray-Brown, moist, very stiff low plasticity, trace-little sand, trace gravel, organics - A-6	6			15					
	7	2.6							
	2								
	9.5								
SILTY CLAY LOAM - Gray, moist, low plasticity, hard, trace sand, trace gravel - A-6	-10			8					-30
	26								
	60+								
	40	3.4		9					
	60+								
	14								
SILTY CLAY LOAM - Dark Gray, moist, hard, low-medium plasticity, trace sand, trace gravel - A-6	-15			10					-35
	36								
	60+	9.6							
	60+								
	60+			9					
	-20								-40

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BBS 137 (3/01)

SOIL BORINGS LOGS  
ILLINOIS ROUTE 32/33  
F.A.P. ROUTE 774  
SECTION 107 WRS-1, 107BY,  
107BY-1 & 107B-2  
EFFINGHAM COUNTY  
RETAINING WALL  
STA. 1026+03.00 LT. TO STA. 1033+86.00 LT.  
STRUCTURE NUMBER 025-WO08