

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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**SOIL BORING LOG**

DATE 7/6/2010  
LOGGED BY MR  
GSI JOB No. 10098

ROUTE F.A.I. RTE. 55 DESCRIPTION Central Avenue Over Interstate 55 Ramp Reconstruction  
SECTION 9H, HB & SB/R-1 LOCATION SEC. 4 & 5, TWP. 38 N., RNG. 13 E., 3rd P.M., Stickney Township  
COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-1305  
Station 395+26 to 397+65  
BORING NO. RW-11  
Station 397+14  
Offset 46.5' Left  
Ground Surface Elev. 588.6

Description	D E P T H (ft)	B L O W S (6")	U N D E R S T R I C T U R E (tsf)	M O I S T U R E (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elevation:	D E P T H (ft)	B L O W S (6")	U N D E R S T R I C T U R E (tsf)	M O I S T U R E (%)
CRUSHED STONE-medium dense (Fill)	6				n/a	n/a		2			107
	14							4			
	596.1	12	NP	5				7	2.4B		21
SILTY CLAY-gray-very stiff (A-6) Apparent Fill	4			103				3			107
	5							4			
	592.6	5	2.5B	22				-25	7	2.4B	21
SILTY CLAY LOAM-dark brown-loose (A-4)	2							2			98
	3		NP	26				3			
	590.6	3						6	1.8B		26
	3			107				2			101
	5							3			
	583.1	-10	3.1B	21				-30	5	1.6B	25
CLAY-brown & gray-stiff to very stiff (A-6)	2			103							
	4										
	583.1	7	2.9B	23							
	3							4			121
	5							7			
	583.1	-15	1.0P	26				-35	12	3.5B	15
CLAY-gray-stiff to very stiff (A-6)	2			116							
	3										
	583.1	5	1.2B	17							
	3			107							
	4										
	583.1	-20	1.8B	21				-40			

End Of Boring @ -35.0  
Hollow Stem Augers To -10.0'  
Rotary Drilling To Completion  
CME Automatic Hammer

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shaly Tube Sample VS-Vane Shear Test  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)  
NR-No Recovery

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SECTION 9H, HB & SB/R-1 LOCATION SEC. 4 & 5, TWP. 38 N., RNG. 13 E., 3rd P.M., Stickney Township  
COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-1305  
Station 395+26 to 397+65  
BORING NO. RW-12  
Station 397+57  
Offset 46.5' Left  
Ground Surface Elev. 598.2

Description	D E P T H (ft)	B L O W S (6")	U N D E R S T R I C T U R E (tsf)	M O I S T U R E (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elevation:	D E P T H (ft)	B L O W S (6")	U N D E R S T R I C T U R E (tsf)	M O I S T U R E (%)
18.0" CRUSHED STONE	6				n/a	n/a		2			107
	14							4			
	596.7	8						7			103
	5							5			
	596.7	4	4.5+P	17				4			23
CLAY to CLAY LOAM-brown & gray-medium dense (A-6) Fill	4			103				3			103
	5							4			
	592.2	5						-25	6	1.3B	23
CLAY-gray-stiff to very stiff (A-6)	2			102							
	3							4			
	590.2	1	NP	26				6	1.4B		24
SILTY LOAM-dark brown & gray-very loose (A-4)	3			104				2			99
	5							3			
	587.7	-10	1.9B	23				-30	5	1.7B	26
CLAY-brown & gray-medium stiff to stiff (A-6)	3			103							
	6										
	566.2	7	0.75P	25							
	3			103				2			120
	5							4			
	587.7	-15	1.2B	24				-35	8	1.25B	15
CLAY LOAM-gray-stiff (A-6)	2			107							
	3										
	587.7	6	1.25B	21							
CLAY-gray-stiff to very stiff (A-6)	3			107							
	4										
	587.7	-20	ST 2.25P	21				-40	22	1.0P	18

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shaly Tube Sample VS-Vane Shear Test  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)  
NR-No Recovery

BORING LOGS 3  
STRUCTURE NO. 016-1305

TYLIN INTERNATIONAL

DESIGNED -	REVISIONS	
	NAME	DATE
CHECKED - AMD,		
DRAWN -		
CHECKED - AMD,		
DATE - 03/25/2011		

SHEET NO. 10	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	0711.2R & 1011.1BR	COOK	741	583
10 SHEETS	CONTRACT NO. 60999				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

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