BORING LOG: B-404 (1 of 4)

BORING LOG: B-404 (2 of 4)

BORING LOG: B-404 (3 of 4)

(P)	// Illinois Depa	rtment			. (במונ חמחואמ	100	Page	<u>1</u> of <u>4</u>
TA	Illinois Depa of Transport DMsion of Highways Geotechnology, Inc	ration				SOIL BORING	LUG	Date	4/17/09
ROUTE		DESCRIPT	10N			Trilevel Interchange		LOGGED BY	DTC
SECTION	82-1	L	OCATIO	Ν	East St	. Louis, IL, SEC. 12, TWP	2N, RNG. 10W		
COUNTY	St. Clair DR	ILLING METHO	D			HSA with MR	HAMMER TYPE	CME_75	/ 80%
STRUCT. NO Station	NA	D E P T	B L O W	U C S	M 0 1 S	Surface Water Elev. Stream Bed Elev. Groundwater Elev.:	Unknown ft Unknown ft	D B E L P O T W	U M C O S
	18.65ft Right urface Elev. <u>418.57</u>		S (/6")	Qu (tsf)	T (%)	First Encounter Upon Completion After Hrs.	** ft ** ft ** ft	(ff) (/6")	Qu T (tsf) (%)
Topsoil - Medium sti	6 inches ff, black, CLAY (FILL)	418.07	2			Medium dense, brownish FINE GRAINED SAND (continued)	gray,	11	
:		415.57	3		24	\$ *		12 8	
Medium sti (FILL)	ff, brown, SILTY CLAY		2		27			7 7	
Medium sti	ff, brown, SILTY LOAM	413.07	4					10	
			3 4		23			10 8 10	
		200-com	2		17			9	
		10	3					13	
			3 4 3		25				
Medium de FINE GRAIN	ense, brownish gray, IED SAND	405.57	3					9	
		~15	7					11 16	
lass-			3 4			Medium dense, brownish FINE TO MEDIUM GRAINEI SAND	gray,	2.57	
loose		·	5					=	
		-20	6 7			See attached grain size distribution		9 11 -40 16	

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 1206)

* Rimac not measured due to sample disturbance

BBS,
** Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

ROUTE FAP 988 DESCRIPTION Trievel interchange LOGED BY DIC SECTION 82-1 LOCATION East SI, Louis, IL, SEC, 12, TWP, 2H, RNG, 10W COUNTY SI, Cleir DRILLING METHOD HSA with Me Stream Bed Elev. Unknown H D L C C ME 75 / 80% STRUCT, NO. 082-0322 B L C C C C C C C C C C C C C C C C C C	Illinois of Tra	Departme nsportation	nt า	(SOIL BORING	G LOG	Page Date	2 of 4 4/17/09
SECTION B2-1	Gebiechnology, in	u .			Trilough Interche			
STRUCT. NO. 082-0322 STRUCT. NO. 082-0322 STRUCT. NO. 082-0322 STRUCT. NO. 0 0 0 0 0 0 0 0 0			-				LUGGED B1	DIC
STRUCT. NO. 082-0322 D B U M Surface Water Elev. Unknown ft D D C O N Strain Bed Elev. Unknown ft D D S I C O O S I S S I S S I S S								
Sicilian NA	COUNTY St. Clair	DRILLING N	ETHOD		HSA with MR	_ HAMMER TYPE		
Solidion 3544425			E L C	0			E L	C 0
FINE C MEDIUM GRANED SAND (continued) 378.57 Dense to very dense, brown gray, FINE GRAINED SAND 22 19 -45 14 -59 14 -59 14 -59 14 -59 14 -59 14 -59 14 -59 15 -70 50/5* -70	Station 53+ Offset 18.65	44,25 ft Right	H S Qu	u T	First Encounter Upon Completion	** ft	H S	Qu T
Dense to very dense, brown gray, FINE GRAINED SAND	FINE TO MEDIUM GRAINED				FINE GRAINED SAND	rown gray,		
- 19					·			-
Teached grain size							17	
The diagram of the state of the			45 14 				-65 15	
The diagram of the state of the								
14					* · · · · · · · · · · · · · · · · · · ·		43	
- 16	medium dense		-50					
- 16				111111111111111111111111111111111111111				
			16	-				
	See attached grain size distribution							

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)

* Rimac not measured due to sample disturbance

** Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

						.0	7 .4
Illinois Depart	ment ition			SOIL BORIN	IG LOG	Page	3 of 4
Division of Highways Geotechnology, Inc						Date	4/17/09
ROUTE FAP 998	DESCRIPTION			Trilevel Interchan	ge	LOGGED BY	DTC
SECTION 82-1	LOCAT	ON _	Easi Si	Louis, IL, SEC. 12,	TWP. 2N, RNG. 10W		
COUNTY St. Clair DRILL	ING METHOD			HSA with MR	HAMMER TYPE	CME_75	/ 80%
STRUCT. NO. 082-0322 Station NA BORING NO. B-404	- D B E L P O T W	U C S	M 0 1 S	Surface Water Elev. Stream Bed Elev. Groundwater Elev.:	Unknown ft Unknown ft	D B E L P O T W	U M C O S I S
BORING NO. B-404 Station 53+44.25 Offset 18.65ft Right Ground Surface Elev. 418.57	H S (ff) (/6"	Qu) (tsf)	(%)	First Encounter Upon Completion After Hrs.	** ff	H S (ff) (/6")	Qu T (tsf) (%)
Dense to very dense, brown gray, FINE GRAINED SAND (continued)	533.57 -85			Medium dense to ver brown gray, MEDIUM SAND (continued)	y dense,		
	13 90 13					20 20 -110 24	

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 1206)

* Rimac not measured due to sample disturbance

** Not measured due to drilling methods used

CRYSTALLINE LIMESTONE — See attached rock core log

BBS, from 137 (Rev. 8-99)

Page <u>3</u> of <u>4</u>

USER NAME =	DESIGNED	-	PJL	REVISED	* .
	DRAWN	-	BRD	REVISED	-
PLOT SCALE = 0:2 'v' / IN.	CHECKED	-	DDB	REVISED	-
PLOT DATE = 6/27/2011	DATE	-	07-01-11	REVISED	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	В	ORING LO	GS X	VIII	
	I-70E OVER	I-55, CSX	& K(S RAILRO	AD
SCALE:	SHEET S-20	7 OF S-234 SHE	ETS ST	A. 7	0 S

70 S.N. (82-1-B- 082-0322 & S.N.		CONTR.		399 NO. 7	334 6C76
 		INOIS FED.		AC 1	1402	0070