

**BORING LOG: B-410 (1 of 3)**

**BORING LOG: B-410 (2 of 3)**

**BORING LOG: B-410 (3 of 3)**



Illinois Department of Transportation  
Division of Highways  
Geotechnology, Inc.

**SOIL BORING LOG**

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Date 2/18/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY TW  
SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W  
COUNTY St. Clair DRILLING METHOD HSA with MR HAMMER TYPE CME 55 / 80%

STRUCT. NO.	BORING NO.	Station	Offset	Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	(ft)	(/6")	(tsf)	(%)
082-0322	B-410	NA	36.12ft Left	416.54					Unknown	Unknown	Unknown	**	**	**					
Black and brown, SILTY CLAY (FILL), with cinders and sand																			
4																			
6																			
7																			
16																			
4																			
6																			
7																			
15																			
50/4"																			
9																			
8																			
8																			
0.6																			
S																			
15																			
-10																			
11																			
11																			
10																			
403.54																			
Medium dense to loose, brown, FINE GRAINED SAND, with silt																			
7																			
7																			
6																			
-15																			
7																			
3																			
4																			
379.54																			
Medium dense to dense, brown, FINE GRAINED SAND, with silt																			
4																			
4																			
5																			
5																			
-20																			

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)



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082-0322	B-410	NA	36.12ft Left	416.54					Unknown	Unknown	Unknown	**	**	**					
Medium dense to dense, brown, FINE GRAINED SAND, with silt (continued)																			
7																			
6																			
8																			
19																			
17																			
25																			
-45																			
370.54																			
Medium dense, brown, MEDIUM GRAINED SAND, with silt																			
12																			
11																			
11																			
-50																			
364.54																			
Medium dense, gray, SANDY LOAM, with coarse grained sand																			
6																			
9																			
11																			
-55																			
360.54																			
Medium dense to very dense, gray, FINE GRAINED SAND, with trace silt																			
9																			
14																			
16																			
-60																			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
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082-0322	B-410	NA	36.12ft Left	416.54					Unknown	Unknown	Unknown	**	**	**					
Medium dense to very dense, gray, FINE GRAINED SAND, with trace silt (continued)																			
10																			
12																			
11																			
-65																			
14																			
18																			
23																			
-90																			
307.04																			
End of Boring																			
-110																			
50/5"																			
-115																			
321.54																			
Medium dense, gray, MEDIUM GRAINED SAND, with coarse sand and gravel																			
12																			
15																			
15																			
-100																			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
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BBS, from 137 (Rev. 8-99)

K:\proj\gts\600660\1\drawings\76c\08-master\consolidated\structural\082-0322-sheet\082-0322-sheet.dwg



USER NAME =  
PLOT SCALE = 0.2" / 1"  
PLOT DATE = 6/27/2011

DESIGNED - P.J.L.  
DRAWN - BRD  
CHECKED - DDB  
DATE - 07-01-11

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**BORING LOGS XXVII**  
**I-70E OVER I-55, CSX & KCS RAILROADS**  
SCALE: SHEET S-216 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	343
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		