

**SHELBY TUBE TEST: B-404 ST (1 of 1)**

**BORING LOG: B-405 (1 of 3)**



**SHELBY TUBE TEST RESULTS**

Page 1 of 1  
Date 4/21/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange		DRILLED BY BS		TRIAxIAL DATA			
SECTION 82-1	LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W	SPECIMEN NO.	UNIT WEIGHT	STRENGTH	MOISTURE	COHESION	PHI
COUNTY St. Clair	STRUCT. NO. 082-0322	DEPTH (ft)	(pcf)	(tsf)	(%)	(tsf)	(deg)
BORING NO. B-404ST		Station 53+44.25	Ground Surface Elev. 418.57 ft	Tube Length 24 in			
Offset 18.65ft Right		Begin Sampling Depth 0 ft	Tube Diameter 3 in				
SOIL TYPE, DESCRIPTION AND OBSERVATIONS							
Black, SILTY LOAM (FILL), with cinders and slag	1-1	100	17				
Black, SILTY LOAM (FILL), with cinders and slag	1-2	100	26				
Black, SILTY CLAY (FILL), with cinders and slag	1-3	100	108	0.6	26		Qu
Brown, SILTY LOAM (FILL)	2-1	100	115	29			
Brown, CLAY (FILL)	2-2	33	113	37			Consd
Brown, CLAY (FILL), with inclusions of cinders, slag, and gravel	3-1	100	109	35			
Brown, CLAY (FILL), with inclusions of cinders, slag, and gravel	3-2	83	121	1.5	26		Qu
Brown, SILTY LOAM	4-1	100					
Brown, CLAY	4-2	100	117	23	0.7		UU
Brown, SILTY LOAM	4-3	67	120	21			Consd

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample  
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)  
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

BMPR FORM 1004A (Rev. 8-99)



**SOIL BORING LOG**

Page 1 of 3  
Date 2/4/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange		DRILLED BY REW		TRIAxIAL DATA			
SECTION 82-1	LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W	SPECIMEN NO.	UNIT WEIGHT	STRENGTH	MOISTURE	COHESION	PHI
COUNTY St. Clair	STRUCT. NO. 082-0322	DEPTH (ft)	(pcf)	(tsf)	(%)	(tsf)	(deg)
BORING NO. B-405		Station 56+68.318	Ground Surface Elev. 421.20 ft	Tube Length 24 in			
Offset 11.40ft Right		Begin Sampling Depth 0 ft	Tube Diameter 3 in				
SOIL TYPE, DESCRIPTION AND OBSERVATIONS							
Gray, black, brown SILT (FILL), with sand, cinders, brick and concrete debris	1-1	100					
Medium dense, grayish brown, SANDY LOAM (continued)	1-2	400.20					
Medium stiff to stiff, gray, SILTY CLAY LOAM	2-1	7					
	2-2	9					
	2-3	4					
	2-4	3					
	2-5	3					44
	2-6	4					
	2-7	25					
	2-8	6					
	2-9	6					21
	2-10	6					
	2-11	393.20					
Medium dense, grayish brown, FINE GRAINED SAND, trace silt	3-1	9					
Medium stiff, gray, SILT, trace clay	3-2	10					
	3-3	15					
	3-4	10					
	3-5	3					
	3-6	28					
	3-7	3					
	3-8	26					
	3-9	3					
	3-10	15					
	3-11	8					
	3-12	10					
	3-13	11					
	3-14	405.20					
Medium stiff, gray, SILTY CLAY LOAM	4-1	2					
	4-2	3					
	4-3	29					
	4-4	403.20					
Medium dense, grayish brown, SANDY LOAM	5-1	6					
	5-2	7					
	5-3	10					
	5-4	15					

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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USER NAME =	DESIGNED - PJL	REVISED -
PLOT SCALE = 0.2" = 1' IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/27/2011	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS XX  
I-70E OVER I-55, CSX & KCS RAILROADS**

SCALE: SHEET S-209 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	336
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		