

SHELBY TUBE TEST: B-416 ST (1 of 2)



SHELBY TUBE TEST RESULTS

Page 1 of 2

Date 4/7/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange		DRILLED BY BS		TRIAxIAL DATA						
SECTION 82-1	LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W	DEPTH	UNIT	W	S	M	C	P	T	
COUNTY St. Clair	STRUCT. NO. 082-W310	DEPTH	UNIT	W	S	M	C	P	T	
BORING NO. B-416ST		DEPTH	UNIT	W	S	M	C	P	T	
Station 64+85.22	Ground Surface Elev. 413.00 ft	DEPTH	UNIT	W	S	M	C	P	T	
Offset 4.54ft Left	Begin Sampling Depth -3 ft	DEPTH	UNIT	W	S	M	C	P	T	
SOIL TYPE, DESCRIPTION AND OBSERVATIONS		(ft)	(no)	(%)	(pcf)	(tsf)	(%)	(tsf)	(deg)	
Gray brown, CLAY LOAM		1-1	100		42					
Gray brown, CLAY LOAM		1-2	100	119	23					
Gray brown, CLAY LOAM		1-3	33	118	25					
Gray, CLAY LOAM, with silt		2-1	100						Consol	
Gray, CLAY LOAM, with silt		2-2	100	120	23				CU	
Brownish gray, CLAY LOAM		3-1	100	121	28					
Brownish gray, CLAY LOAM		3-2	100	118	26	0.1	32		CU	
Brownish gray, CLAY LOAM		3-3	100	113	43				CU	
Brown, CLAY		4-1	100	120	33					
Brown, CLAY		4-2	100	120	0.5	33			Qu	
Grayish brown, CLAY		4-3	100	100	31					
Grayish brown, CLAY		4-4	100	115	0.6	37			Qu	
Gray, CLAY, trace iron stains		5-1	100	117	34					
Gray, CLAY, trace iron stains		5-2	100		36					
Gray, CLAY, trace iron stains		5-3	100		33					
Grayish brown, SANDY LOAM		6-1	100							
Grayish brown, SANDY LOAM		6-2	100							
Gray, CLAY, trace fine sand, silt, iron staining		6-3	100	111	0.5	42			UU	
Gray, CLAY, trace fine sand, silt, iron staining		6-4	33						Consol	
Brown and gray, CLAY, trace fine sand, iron staining		7-1	100							
Gray, CLAY		7-2	100	113	0.3	30			Qu	

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)

SHELBY TUBE TEST: B-416 ST (2 of 2)



SHELBY TUBE TEST RESULTS

Page 2 of 2

Date 4/7/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange		DRILLED BY BS		TRIAxIAL DATA						
SECTION 82-1	LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W	DEPTH	UNIT	W	S	M	C	P	T	
COUNTY St. Clair	STRUCT. NO. 082-W310	DEPTH	UNIT	W	S	M	C	P	T	
BORING NO. B-416ST		DEPTH	UNIT	W	S	M	C	P	T	
Station 64+85.22	Ground Surface Elev. 413.00 ft	DEPTH	UNIT	W	S	M	C	P	T	
Offset 4.54ft Left	Begin Sampling Depth -3 ft	DEPTH	UNIT	W	S	M	C	P	T	
SOIL TYPE, DESCRIPTION AND OBSERVATIONS		(ft)	(no)	(%)	(pcf)	(tsf)	(%)	(tsf)	(deg)	
Brown, SANDY LOAM		7-3	100	114	1.4	34			UU	
Brown, MEDIUM GRAINED SAND		7-4	33							
Grayish brown, SILTY LOAM		8-1	100	107	0.5	46			Qu	
Grayish brown, SILTY LOAM		8-2	100	117	2.0	31			UU	
Grayish brown, SILTY LOAM		8-3	100	111	0.6	42			Qu	
Gray, CLAY		8-4	100	107	0.5	46			Qu	
Gray, SANDY LOAM		9-1	100	106		49				
Gray, CLAY		9-2	100	107	0.4	47			UU	
Gray, FINE GRAINED SAND		9-3	100							
Gray, FINE GRAINED SAND		9-4	100							
Gray, CLAY		10-1	100	98	0.1	34			Qu	
Gray, FINE GRAINED SAND		10-2	100			27				
Gray, SANDY LOAM		11-1	100			26				
Gray, FINE GRAINED SAND		11-2	100			12				
Brown, FINE GRAINED SAND, with gravel		11-3	100			7				

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)

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USER NAME =	DESIGNED - PJL	REVISED -
DRAWN - BRD	CHECKED - DDB	REVISED -
PLOT SCALE = 1/4" = 1' IN.	DATE - 07-01-11	REVISED -
PLOT DATE = 6/27/2011		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: SHEET 5-226 OF 5-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	353
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		