URE FO Bridge 323 ove

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF PLACING TWIN STRUCTURES FOR SR 823 OVER FAIRGROUND ROAD. THE STRUCTURES AS PLANNED, ARE ALL SINGLE SPAN STRUCTURES USING MSE WALLS TO HOLD BACK THE ROADWAY EMBANKMENTS AND CONTAIN THE ABUTMENTS.

HISTORIC RECORDS

HISTORIC BORING RECORDS FOR THE AREA WERE REQUESTED FROM THE ODOT OFFICE OF GEOTECHNICAL ENGINEERING AND THE DISTRICT, HOWEVER, NO SUCH RECORDS

GEOLOGY

 \bigcirc

 \bigcirc

 \bigcirc

 \bigcirc

GENERALIZED GEOLOGICAL REFERENCES REPORT THAT THE SITE LIES ON THE EAST SIDE OF THE FLOOD PLAIN OF THE TEAYS STAGE, PORTSMOUTH RIVER, WHICH IS CURRENTLY THE EAST SIDE OF THE SCIOTO RIVER VALLEY. THIS AREA IS UNGLACIATED. HOWEVER THE SCIOTO RIVER VALLEY IS FILLED WITH ILLINOIAN AND WISCONSIN GLACIAL OUTWASH TO DEPTHS OF UP TO 90 FEET.

THE AREA OF THESE STRUCTURES IS CHARACTERIZED BY GENTLY TO MODERATELY SLOPING TOPOGRAPHY RISING FROM OF THE FLOODPLAIN OF THE SCIOTO RIVER. THE PROJECT AREA IS LOCATED IN THE SHAWNEE-MISSISSIPPIAN PLATEAU OF THE UNGLACIATED PORTION OF THE APPALACHIAN PLATEAU PHYSIOGRAPHIC REGION. THE SHAWNEE-MISSISSIPPIAN PLATEAU IS CHARACTERIZED BY DEVONIAN AGED TO PENNSYLVANIAN AGED ROCKS AND CONTAINS RESIDUAL, COLLUVIAL, ALLUVIAL, AND LACUSTRINE SOILS.

RECONNAISSANCE

SEVERAL SITE RECONNAISSANCE VISITS WERE MADE BETWEEN JUNE 2004 AND SEPTEMBER 2007. THE SURROUNDING AREA IS UTILIZED FOR AGRICULTURAL PURPOSES AND COMMERCIAL STORAGE. GROUND COVER IN THE PROJECT AREA CONSISTS OF GRASS, BRUSH, AND OCCASIONAL SMALL TREES.

SUBSURFACE EXPLORATION

THE SUBSURFACE EXPLORATION CONSISTED OF DRILLING SEVEN BORINGS. BORINGS TR-55, TR-55A, AND TR-56 WERE DRILLED ON MARCH 15 AND 16, 2005 AND JULY 8, 2004. BORINGS B-1143 THROUGH 1146 WERE DRILLEDON SEPTEMBER 22 AND OCTOBER 13, 2005. BORINGS WERE DRILLED WITH BOTH TRUCK AND ATV MOUNTED ROTARY DRILL RIGS, USING 3 1/4 -INCH I.D. HOLLOW STEM AUGERS TO ADVANCE THE HOLES THROUGH SOIL. DISTURBED SOIL SAMPLES WERE OBTAINED IN ACCORDANCE WITH THE STANDARD PENETRATION TEST (AASHTO T206) AT 1.5 TO 5.0-FOOT INTERVALS FOR THE FULL DEPTH OF THE SOIL PORTION OF THE BORINGS. UNDISTURBED SOIL SAMPLES WERE OBTAINED AT THE DEPTHS SHOWN ON THE LOGS AND IN THE PROFILE, IN ACCORDANCE WITH AASHTO T207. WHERE BEDROCK WAS ENCOUNTERED, THE BORINGS WERE ADVANCED AND THE ROCK WAS SAMPLED USING A TYPE NO SERIES CORE BARREL, WATER METHOD. CORE BARREL, WATER METHOD.

EXPLORATION FINDINGS

TEST BORINGS DISCLOSED PREDOMINANTLEY STIFF TO VERY STIFF, COHESIVE SOILS RANGING FROM A-4A TO A-7-6 FROM THE GROUND SURFACE TO DEPTHS OF 8 TO 13 FEET. BENEATH THE COHESIVE LAYER, BORINGS GENERALLY ENCOUNTERED VERY LOOSE TO MEDIUM DENSE COHESIONLESS SOILS RANGING FROM A-3A TO A-1B TO THE TOP OF BEDROCK.

BORINGS DRILLED NEAR THE STRUCTURE ENCOUNTERED BEDROCK CONSISTING OF SOFT TO MEDIUM HARD GRAY SHALE AND MEDIUM HARD GRAY, ARGILLACEOUS SANDSTONE OF THE CUYAHOGA FORMATION.

IN BORINGS WHERE SEEPAGE WAS OBSERVED, IT WAS FIRST OBSERVED AT DEPTHS RANGING FROM 10.5 TO 16.0 FEET BELOW THE GROUND SURFACE. SEEPAGE WAS NOT OBSERVED IN BORING TR-56. NO GROUNDWATER WAS OBSERVED IN THE BORINGS PRIOR TO BEGINNING ROCK CORING OPERATIONS.

SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS, DATED NOVEMBER 1995.

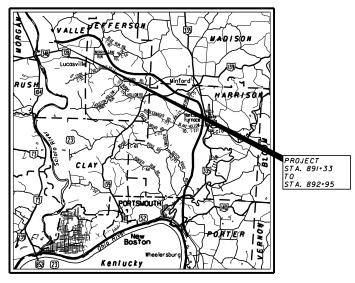
AVAILABLE INFORMATION

ALL AVAILABLE SOIL AND BEDROCK INFORMATION THAT CAN BE CONVENIENTLY SHOWN ON THE SOIL PROFILE SHEETS HAS BEEN SO REPORTED. ADDITIONAL SUBSURFACE EXPLORATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE, THE OFFICE OF GEOTECHNICAL ENGINEERING AT 1600 WEST BROAD STREET OR THE OFFICE OF STRUCTURAL ENGINEERING AT 1980 WEST BROAD STREET.

	1 5051	un.		
	<u>LEGE!</u>	ODOT	CL A'	SSIFIED
DES	SCRIPTION	CLASS		./VISUAL
्रुट्टी Grave	el with Sand	A-1-b	3	7
Grave	el with Sand, Silt, and Clay	A-2-6	1	2
Coars	se and Fine Sand	A-3a	2	4
Sandy	y Silt	A-4a	1	5
+ + + + Silt		A-4b	1	2
Silt	and Clay	A-6a	2	12
Silty	Clay	A-6b	2	6
		TOTAL	12	38
Sand:	stone	VISUAL		
Shale	e	VISUAL		
Weat	hered Sandstone	VISUAL		
Weat	hered Shale	VISUAL		
— Weat	hered Siltstone	VISUAL		
Tops	soil	VISUAL		
-	BORING LOCATION - PLAN VIEW			
	DRIVE SAMPLE AND/OR CORE BORING PLOTTED TO VERTICAL SCALE ONL'			
w ———	INDICATES FREE WATER ELEVATION			
∇	INDICATES STATIC WATER ELEVATION	DN		
—_TR	TOP OF ROCK			
•	WATER CONTENT NEARLY EQUAL TO GREATER THAN LIQUID LIMIT	OR		
X/Y/Z	FIGURES BESIDE THE BORING IN PROINDICATE THE NUMBER OF BLOWS FOR PENETRATION TEST X = NUMBER OF BLOWS FOR FIRS Y = NUMBER OF BLOWS FOR SECO Z = NUMBER OF BLOWS FOR THIR	OR STANDARD T 6 INCHES OND 6 INCHES		
50 (c)	INDICATES NUMBER OF BLOWS (50)	TO DRIVE A SPLIT-		

BARREL SAMPLER A DEPTH OF (n) INCHES OTHER

THAN THE NORMAL 6 INCH INCREMENT.



LOCATION MAP



PARTICLE SIZE DEFINITIONS

	12"		3"	2.0 mm).42 mm	0.0 mr		.005 mm
Boulders		Cobbles	Grave	ı	Coarse	Sand	Fine	Sand	Silt	Clay
				o. 10 SIEVE			. 40 IEVE	No. SIE	200 EVE	

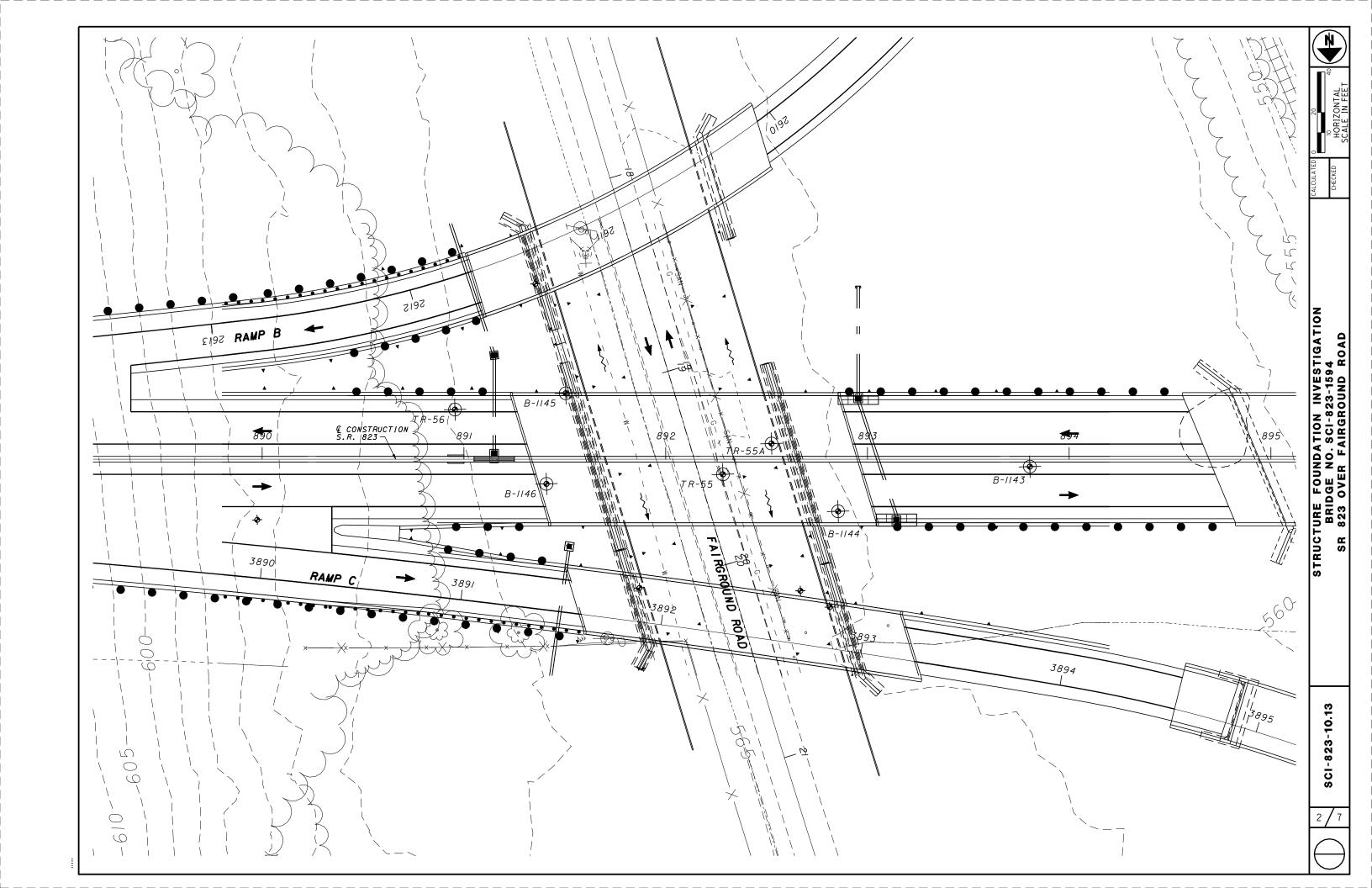
RECON. -AMJ & SJR 09/05 to 09/06

DRILLING -DW 08/19 TO 08/19/04 & 06/13 TO 06/14/06

DRAWN -RLS & AMJ 3/09 TO 4/09

REVIEWED - AEN 4/20/09





 \bigcirc

 \bigcirc

 \bigcirc

	ranSyst				٦.		Project: SCI-823-0.00								Job	No. 01	21-307	0.03	
JG OF:	Boring		TR-56	Sam	ple	ocation: Sta.	890+95.4, 24.6 ft. LT of SR 823 CL Date Drilled: WATER	3/1	6/05	GRA	DAT	ION							
Depth (ft)	Elev. (ft)	Blows per 6"	Recovery (in)	Drive	Press / Core	Hand Penetro- meter (tsf)	OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 7.5' (includes drilling water) DESCRIPTION	% Addredate	% C. Sand	% M. Sand	% F. Sand	% Silt	% Clay	Nat	STAND tural Mo PL I— Blows 10		ontent		•
0. 9 — - - -	-569.8 -	2 2 3	15	1		2.5	`Topsoil-3" Very stiff to hard brown SILTY CLAY (A-6b), trace fine sand; damp.							Q					
5 —		6 9 4 6 9	17	3		4.5+ 4.25		0	0	_	2	57	41) • -			
1.0 — - 10 —	-562.0 -	2 2 3	18	4			Loose brown and gray SILT (A-4b), some fine to coarse sand, some clay; damp to moist.	-	1	-	19	55	25) 	-		
-		2 6 4	9	5											\	\			
	-555.9 -	8 23 50/4	15	6			Severely weathered grayish brown SILTSTONE.							Ш			$ \uparrow$	111	Щ
550— — — — 20 — — —	- 555.0 -	Core 120"	Rec 120"	RQI 68%) _{R-1}		Medium hard grayish brown SANDSTONE interbedded with SHALE; very fine to fine grained, slightly weathered, argillaceous, laminated to thinly bedded, highly fractured. @ 16.4'-17.2', high angle fracture and clay seam. @ 17.2', gray. @ 19.2'-19.7', clay seam. @ 20.4'-20.8', broken, clay seam.												301
250 - - -	-545.0 -						Bottom of Boring - 25.0'												

 \bigcirc

 \bigcirc

 \bigcirc

Client: T					_		Project: SCI-823-0.00								J	ob N	o. 0	121-3	070.	03		_
LOG OF:	Boring		B-1146	0		Location: Sta	. 891+40.7, 12.2 ft. RT of SR 823 CL Date Drilled: 10	0/13/0		ND A	DAT	ION										_
				Sam No	ple	Hand	WATER OBSERVATIONS: Water seepage at: 10.5'-13.0'	H	Г	SKA	DAT	ION	П									
		₆	Ξ		e	Penetro- meter	Water level at completion: None (prior to coring) 3.3' (inside hollowstern augers)	l _e	_	_						NDA					N (N) -
Depth (ft)	Elev. (ft)	Blows per 6"	Very		Press / Core	(tsf)		Ě	Sand	San	Sand	_	ž	Na	itural PL		ure (onte	-	, - LL	. '	•
	567.7	Blows	Recovery	Drive	Press		DESCRIPTION	% Aggregate	°.	% M. Sand	% F.	% Silt	% Clay		Bl:	ows	er fo 20	ot - 3		40	0	
-o.₽=	-567.5 -						Topsoil - 2"	T								Ш	Ш	Ш	П		П	Ī
		6 7 9	18	1		4.5+	Very stiff to hard brown SILT AND CLAY (A-6a), trace fine to coarse sand, trace gravel; damp to moist.	0	3	-	5	50	42				╢	₩	₩			
-		7 12 17	18	2		4.5+											\mathbb{N}					
5 —		,	10																			
-		6 8	18	3		3.0										ϕ	$\parallel \parallel$					
10 —		5 8 8	18	4		1.75	@ 8.5', stiff, contains sand seam.															
10.5	-557.2 -						Medium dense dark brown GRAVEL WITH SAND (A-1-b).	┨								М	Ш	Ш	Ш		Ш	
-		² 4 ₆	14	5			trace clay, trace silt; moist.	30	29	-	25	1	6			•			No	n-Pl	last	j
13.0 — 14.5 —	-554.7 - -553.2 -	35 50/2	8	6			Severely weathered gray SHALE.	1										+	$\!$	$\downarrow \downarrow$	\prod_{i}	
15 — - - -							Soft brownish gray SHALE; highly weathered to decomposed, micaceous, medium bedded, highly fractured, many broken areas from low angle fractures. @ 14.8'-14.9', high angle fracture.														31	
-19.0 — 20 — - - -	-548.7 -	Core 120"	Rec 120"	RQI 77%	R1		Medium hard gray SANDSTONE; very fine grained, moderately to highly weathered, micaceous, laminated to thinly bedded, moderately fractured, contains abundant argillaceous laminations. ② 21.3', 22.4', low angle fractures.															
-24.5 — 25 — - - -	-543.2 -						Bottom of Boring - 24.5'															

STRUCTURE FOUNDATION INVESTIGATION BRIDGE NO. SCI-823-1594 SR 823 OVER FAIRGROUND ROAD



	ranSyste Boring		B-1145		٦,	ocation: Sta	Project: SCI-823-0.00 891+50.3, 32.7 ft. LT of SR 823 CL Date Drilled: 10	0/13/0	5								· · · · ·	-3070		
				Sam	ple		WATER OBSERVATIONS:	L		RAD	ATIC	N	T							
epth ft)	Elev. (ft) 567.3	Blows per 6"	Recovery (in)	Drive	Press / Core	Hand Penetro- meter (tsf)	Water seepage at: 10.5"-13.0" Water level at completion: None (prior to coring) 3.5" (inside hollowstern augers)	% Aggregate	% C. Sand	% M. Sand	% F. Sand	% Silt	% Clay	Natu P	ralM L⊢	oistur	Con			•
o. 9 —	-567.1 -						Topsoil - 2" Very stiff to hard brown SILTY CLAY (A-6b), trace					T	T	Ш	Ħ	Ш	Ш	Ш	Ш	Ш
_		5 7 8	18	1		4.5+	fine to coarse sand, trace gravel; moist.													
5 —		9 13 16	18	2		4.0		0	1	-	2	58	39					2)	4	
-		3 5 9	18	3		2.0														
_ 10_—		4 7 9	18	4		2.5	@ 6.5', some fine to coarse sand.													
0.5 — —	-556.8 -	4 3 7	18	5			Medium dense dark brown GRAVEL WITH SAND (A-1-b), trace clay, trace silt; moist to wet.	4	47	-	33	16							lon-F	lastic
		8 50/4	10	6											Ш			\mathbb{H}	\prod	
14.5 — 15 — — — 19.0 — 20 — —	-552.8 - -548.3 -	Core 120"	Rec 116"	RQI 87%	R ₁		Soft gray SHALE; highly weathered, micaceous, medium bedded, highly fractured. ② 14.5', 14.7', 15.6', 16.1', 16.5', 17.1', 17.2', 18.0', low angle fractures. ② 14.9'-15.2', loss of recovery. Medium hard gray SANDSTONE; very fine grained, moderately weathered, argillaceous, micaceous, laminated to thinly bedded, moderately fractured, contains abundant argillaceous laminations. ② 21.2', 21.3', 21.7', 22.2', low angle fractures.													30-
24.5 — 25 — —	-542.8 -						Bottom of Boring - 24.5'	_												

 \bigcirc

 \bigcirc

 \bigcirc

	ranSyste				_		Project: SCI-823-0.00								Jo	b No.	0121	1-3070.	.03
OG OF:	Boring		TR-55		_	ocation: Sta	892+28.2, 7.5 ft. RT of SR 823 CL Date Drilled: 7/	B/04					_						
				Samp No.	le	Hond	WATER OBSERVATIONS: Water seepage at: 13.5', 16.0'	H	Г	3RA	DATI	ON	Н						
)	Elev. (ft) 567.1	Blows per 6"	Recovery (in)	Drive	Press / Core	Hand Penetro- meter (tsf)	Water level at completion: None (prior to coring) 16.0' (includes drilling water) DESCRIPTION	% Aggregate	% C. Sand	% M. Sand	% F. Sand	% Silt	% Clay	Na	tural I	Moistu ws pe	ire Cor		
3=	-566.8 -	20 14 11	15	1			Topsoil - 3" FILL: Medium dense brown SANDY SILT (A-4a), little gravel; dry.												
0 5 	-564.1 -	5 3 4	13	2		2.0	Very stiff to hard brown SILT AND CLAY (A-6a), some fine to coarse sand, trace to little gravel; damp to moist.												
		5 7 9	16	3		4.25									$\left \right $	Ø			
,_		10 12 13	18	4		4.5+													
۰ <u>-</u>	-556.1 -	3 4 4	17	5			Loose brown COARSE AND FINE SAND (A-3a), little to some silty clay, trace gravel; moist to wet.												
5—		2 2 3	13	6										¢	,				
	-551.1 -	1 2 3	14	7		<0.25	Very soft brownish gray SILT AND CLAY (A-6a), some fine to coarse sand, some gravel; contains rock fragments; wet.	1						C					
-	-548.6 -	30 50/5	11	8			Severely weathered gray SILTSTONE.	1						Ш				1111	Щ.
9.5 — 20 — — — — — — — — — — —	-547.6 -	Core 120"	Rec 120"	RQD 94%	R-1		Medium hard to hard gray SANDSTONE; slightly weathered, argillaceous, micaceous, moderately to highly fractured, contains abundant argillaceous laminations. @ 22.8'-23.1',23.6'-23.7',25.6' ferric sandstone seams.												
]	-537.6 -						Bottom of Boring - 29.5'												

STRUCTURE FOUNDATION INVESTIGATION BRIDGE NO. SCI-823-1594 SR 823 OVER FAIRGROUND ROAD



	ranSyst				_		Project: SCI-823-0.00								Jo	b No	. 012	1-30	70.03	
OG OF:	Boring		TR-55A		_	ocation: Sta.	. 892+52.3, 7.8 ft. LT of SR 823 CL Date Drilled: 3.	15/0					_							
				Samp No.	le	Hand	WATER OBSERVATIONS: Water seepage at: 13.5-18.0'	H	Г	RAL	DATIO	ON	┪							
Depth (ft)	Elev.	Blows per 6"	Recovery (in)		Press / Core	Penetro- meter (tsf)	Water level at completion: 18.0' (includes drilling water)	% Aggregate	% C. Sand	Sand	% F. Sand		зу			Moist	RD PEI			•
٥—	565.4	Blow	88	Drive	Pag		DESCRIPTION	% Ag	% C	% M.	% П.	% Silt	% Clay		10		er foot	- 30	\circ	40
-		3 5		1		4.5+	No Topsoil Hard gray SILTY CLAY (A-6b); damp.												Ш	
3.0 —	-562.4 -	5	10				Hard brown SILT AND CLAY (A-6a), "and" fine to coarse								\Diamond	Ш			Ш	
5 —		6 7 7	9	2		4.5+	sand, some gravel; damp.									b				
-		11 11 9	12	3		4.5+		22	15	_	23	21	19			\mathbb{H}				
8.0 	-557.4 -	4 5		4			Loose brown COARSE AND FINE SAND (A-3a), trace to little clay, trace gravel; damp.	┧,	25	_	39	16	16			W			Non-	Plasti
10 —		5	14												1				\prod	
-		⁴ 3	12	5											$\ $					
- 15 —		² ₂	15	6			@ 13.5', becomes wet.	9	38	-	40	1	,				$\ $		Non-	Plasti
-		1 2 2	7	7																
18.0 — –	-547.4 -	35 50/5	11	8			Severely weathered gray SHALE.									\parallel	+	$\frac{1}{1}$	\prod	
2200 - -	-545.4 -						Medium hard gray SHALE interbedded with SANDSTONE; highly weathered, very thinly bedded, highly fractured. @ 20.0'-22.0', 26.7'-27.5', 28.3'-28.5', 29.3'-29.6',													a/L
		Core 120"	Rec 120"	RQD 64%	R-1		ighty fractured with clay seams. © 21.0'-21.3', 21.7'-21.9', 26.5'-26.7', 26.9'-22.0', hard brown ferric sandstone, slightly weathered, laminated.													
-							Dawn of Davis 2000													
30,0	535.4						Bottom of Boring - 30.0'						1	Ш	$\Pi\Pi$	Ш	$\Pi\Pi$			Ш

 \bigcirc

 \bigcirc

 \bigcirc

	FranSyst				_		Project: SCI-823-0.00								J	lob N	o. 0	121-	3070.	03	_
LOG OF:	Boring		B-1144	Sam	_	.ocation: Sta	. 892+85.3, 25.8 ft. RT of SR 823 CL Date Drilled: 9.	22/05 T		GRA	DATI	ON	_								_
				No		Hand Penetro-	OBSERVATIONS: Water seepage at: 16.0' Water level at completion: Not Reported (used mud rotary)								STA	NDA	RD P	ENE	TRA	TION (1)
Donth	Elev.	.e.	E		920	meter	Trade less at semples on Tree repetion (asset man really)	曟	,	2	Į,			Na	tural	Mois	ture (Contr	ent. %	-	
Depth (ft)	(ft)	Blows per	Recovery	Drive	Press / Core	(tsf)	DESCRIPTION	% Aggregate	% C. Sand	% M. Sand	F. Sand	is:	% Clay		PL Bi	I	per fo	ot -		LL	
	564.9	-	<u>~</u>	╟≏	-		FILL: Medium dense gray and brown SANDY SILT (A-4a),	+*	%	8	%	%	*	П	10 	П	20 	П	Î	40	П
_		5 8 11	6	1			little clay, little gravel; contains organic material; dry to damp.									Ш					
3.0 - 03.0	562.2 562.2 -	12 14					Stiff to very stiff reddish brown SANDY SILT (A-4a),	1									\mathbb{N}				1
5 —		14 17	12	2		-	little clay, trace gravel; damp to moist. Topsoil - 3" @ 5.0', began using mud rotary to advance hole.	4	14	-	32	30	20			Ħ			Ð		
_		9 11 1	13	3		_	goo, organisms to an analysis and the second										H	1			
-		6	Ü													\mathbb{N}					1
10 —		7 9	14	4		-										6					
_		5 4		5		_										1					
-13.0 —	-552.2 <i>-</i>	5	12					1							Ø						1
-		3 4 5	8	6			Loose to medium dense brown GRAVEL WITH SAND, SILT, AND CLAY (A-2-6), little clay; moist to wet.	13	31	_	30	9	17			н	Ж	+	HП		ı
15 —		2													Ж						
_		⁻ 3	14	7										¢							l
_		1 1	8	8												$\downarrow \downarrow$					
20 — -21.0 —	544.2 -	20	ů														Ø				l
- - -		Core 60"	Rec 45"	RQE 14%	R1		Soft to medium hard gray SHALE interbedded with SANDSTONE; very fine grained, highly weathered to decomposed, thinly laminated to thinly bedded, moderately fractured. ② 21.0*-21.1*; chert layer.														
25 —	ł																				l
-26.0 — -	-539.2 -						Bottom of Boring - 26.0'	1													
_																					
30 —																					П

STRUCTURE FOUNDATION INVESTIGATION BRIDGE NO. SCI-823-1594 SR 823 OVER FAIRGROUND ROAD



Project: SCI-823-0.00 Job No. 0121-3070.03 Client: TranSystems, Inc. LOG OF: Boring Location: Sta. 893+80.3, 3.7 ft. RT of SR 823 CL Date Drilled: 10/13/05 B-1143 GRADATION WATER OBSERVATIONS: Sample No. ONS: Water seepage at: 23.5'-26.3'

Water level at completion: None (prior to coring)
3.5' (inside hollowstem augers) STANDARD PENETRATION (N) Ξ Natural Moisture Content, % -Depth (ft) Elev. (ft) (tsf) PL I ——— Ц Blows per foot - 0 10 20 30 4 DESCRIPTION Topsoil - 2"
FILL: Very stiff to hard brown SILT AND CLAY (A-6a), trace fine to coarse sand, trace gravel; damp. 10 11 18 4.5+ 3.0 3.0 POSSIBLE FILL: Loose to medium dense brown GRAVEL WITH SAND (A-1-b), trace to little silt, trace to little clay; dry to damp. @ 23.5', wet. 25 — 25 50/4 8 Soft greenish gray SHALE; decomposed, micaceous, thinly laminated, highly fractured. @ 28.8'-29.3', loss of recovery from washed out clay. @ 29.3'-29.4', 29.6'-29.7', high angle fractures. Medium hard black SHALE; moderately weathered, Core Rec RQD R1 carbonaceous, thinly laminated, moderately fractured. @ 30.5', 31.2', 31.7', 33.6', 34.7', 35.3', 36.7', low angle fractures. —37.0 — 526.2 Bottom of Boring - 37.0' 40 —

 \bigcirc

 \bigcirc

 \bigcirc

 \bigcirc

STRUCTURE FOUNDATION INVESTIGATION BRIDGE NO. SCI-823-1594 SR 823 OVER FAIRGROUND ROAD

