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

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THE AREA OF THIS STRUCTURE IS CHARACTERIZED BY GENTLY SLOPING TO STEEPLY SLOPING TOPOGRAPHY. 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, GLACIAL, ALLUVIAL, AND LACUSTRINE SOILS.

<u>RECONNAISSANCE</u>

SEVERAL SITE RECONNAISSANCE VISITS WERE MADE BETWEEN JUNE 2004 AND SEPTEMBER 2006. THE SURROUNDING AREA IS DESCRIBED AS RURAL. THERE ARE SEVERAL RESIDENTIAL STRUCTURES AND AGRICULTURAL OUTBUILDINGS IN THE PROJECT AREA. GROUND COVER IN THE PROJECT AREA CONSISTS OF GRASS, BRUSH, AND OCCASIONAL TREES.

SUBSURFACE EXPLORATION

THE FIELD EXPLORATION CONSISTED OF FOUR STRUCTURAL BORINGS. THE STRUCTURAL BORINGS (TR-11 THROUGH TR-14) WERE DRILLED BETWEEN JUNE 7, 2004 AND MARCH 17, 2005 WITH AN ATV MOUNTED ROTARY DRILL RIG, 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.

EXPLORATION FINDINGS

ALL BORINGS ENCOUNTERED SURFICIAL MATERIAL CONSISTING OF 4 TO 6 INCHES OF ALL BORINGS ENCOUNTERED SURFICIAL MATERIAL CONSISTING OF 4 TO 6 INCHES OF TOPSOIL. THE TOPSOIL WAS UNDERLAIN BY NATIVE SOIL DEPOSITS. ALL BORINGS ENCOUNTERED NATIVE COHESIVE AND GRANULAR SOIL DEPOSITS BELOW THE SURFICIAL MATERIAL EXCEPT BORING TR-12 WHERE POSSIBLE FILL WAS ENCOUNTERED CONSISTING OF MEDIUM STIFF TO STIFF SANDY SILT (A-4A). THE COHESIVE DEPOSITS GENERALLY CONSISTED OF STIFF TO VERY STIFF SILT AND CLAY (A-6A), STIFF SANDY SILT (A-4A), STIFF TO VERY STIFF SILTY CLAY (A-6B), AND SOFT TO VERY STIFF CLAY (A-7-6), WHILE THE GRANULAR SOIL DEPOSITS CONSISTED MAINLY OF VERY DENSE SANDY SILT (A-4A). THE NATIVE SOIL DEPOSITS EXTENDED TO AN APPROXIMATE DEPTH PANGING RETWEEN 33 5 AND 430 FEFT BELOW THE CROLUND SUPPACE WHERE REDROCK RANGING BETWEEN 33.5 AND 43.0 FEET BELOW THE GROUND SURFACE WHERE BEDROCK

IN THE AREA OF THE PROPOSED STRUCTURE, BEDROCK WAS ENCOUNTERED IN ALL BORINGS. A LAYER OF SEVERELY WEATHERED ROCK, RANGING IN THICKNESS BETWEEN 3.0 TO 4.0 FEET, WAS ENCOUNTERED ABOVE THE MORE COMPETENT CORED BEDROCK IN BORINGS TR-11 AND TR-12, WHILE A 10.5-FOOT THICK SEVERELY WEATHERED SILTSTONE LAYER WAS ENCOUNTERED IN BORING TR-14. THE BEDROCK CONSISTED OF MEDIUM HARD, BROKEN TO HIGHLY FRACTURED SANDSTONE AND SILTSTONE. THE AMOUNT OF ROCK RECOVERED IN EACH CORE RUN VARIED BETWEEN 51 AND 100 PERCENT. IN BORING TR-13, CORE LOSS WAS ENCOUNTERED BETWEEN APPROXIMATE DEPTHS OF 40.0 AND 44.9 FEET BELOW THE GROUND SURFACE CORRESPONDING TO ELEVATIONS 673.5 AND 668.9, RESPECTIVELY. THE ROCK QUALITY DESIGNATION (ROD) OF THE BEDROCK RANGED BETWEEN 25 AND 92 PERCENT WITH AN AVERAGE OF 71 PERCENT, INDICATING FAIR ROCK.

SEEPAGE WAS ENCOUNTERED IN ALL BORINGS BETWEEN APPROXIMATE DEPTHS OF 10.5 AND 38.5 FEET. MEASURABLE WATER LEVELS IN THE BORINGS PRIOR TO ROCK CORING WERE ENCOUNTERED ONLY IN BORING TR-14 AT AN APPROXIMATE DEPTH OF 24.8 FEET. WATER WAS USED DURING ROCK CORING OPERATIONS AND MASKED ANY SEEPAGE ZONES THAT MIGHT EXIST IN THE ROCK.

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.

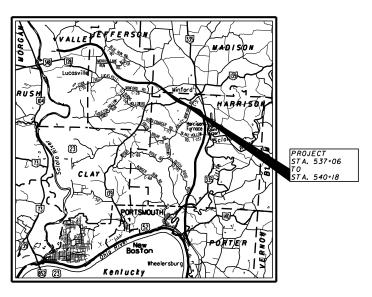
AVAILABLE INFORMATION

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.

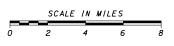
	LEGEND			
DES	CRIPTION	ODOT CLASS		SSIFIED ./VISUAL
SAND	Y SILT	A-4a	2	3
SILT	AND CLAY	A-6a	1	2
SILT	Y CLAY	A-6b	1	3
CLAY		A-7-6	6	37
		TOTAL	10	45
WEAT	HERED SILTSTONE	VISUAL		
SILT:	STONE	VISUAL		
SAND	STONE	VISUAL		
*	BORING LOCATION - PLAN VIEW			
	DRIVE SAMPLE AND/OR CORE BORING PLOTTED TO VERTICAL SCALE ONLY	LOCATION		
w	INDICATES FREE WATER ELEVATION			
▽	INDICATES STATIC WATER ELEVATION	I		
——ТR	INDICATES THE TOP OF ROCK ELEVA	TION		
X/Y/Z	FIGURES BESIDE THE BORING IN PROFINDICATE THE NUMBER OF BLOWS FOR PENETRATION TEST X = NUMBER OF BLOWS FOR FIRST Y = NUMBER OF BLOWS FOR SECON Z = NUMBER OF BLOWS FOR THIRD	STANDARD 6 INCHES D 6 INCHES		
50 (n)	INDICATES NUMBER OF BLOWS (50) TO BARREL SAMPLER A DEPTH OF (n) INCI THAN THE NORMAL 6 INCH INCREMENT	HES OTHER		

PARTICLE SIZE DEFINITIONS

	12"	;		2.0 mm		(0.4; mm		0.0 mr		005 m
Boulders		Cobbles	Gravel		Coarse	Sand		Fine	Sand	Silt	Clay
				. 10 EVE			o. 4		No. SIE	200 VE	



LOCATION MAP



RECON. -

DRAWN -

DRILLING -

REVIEWED - AEN 8/19/09

AMJ AND SJR 06/04 to 06/06

RLS & AMJ 8/09

DW 03/16/05 TO 03/17/05, 06/04/04 TO 06/07/04

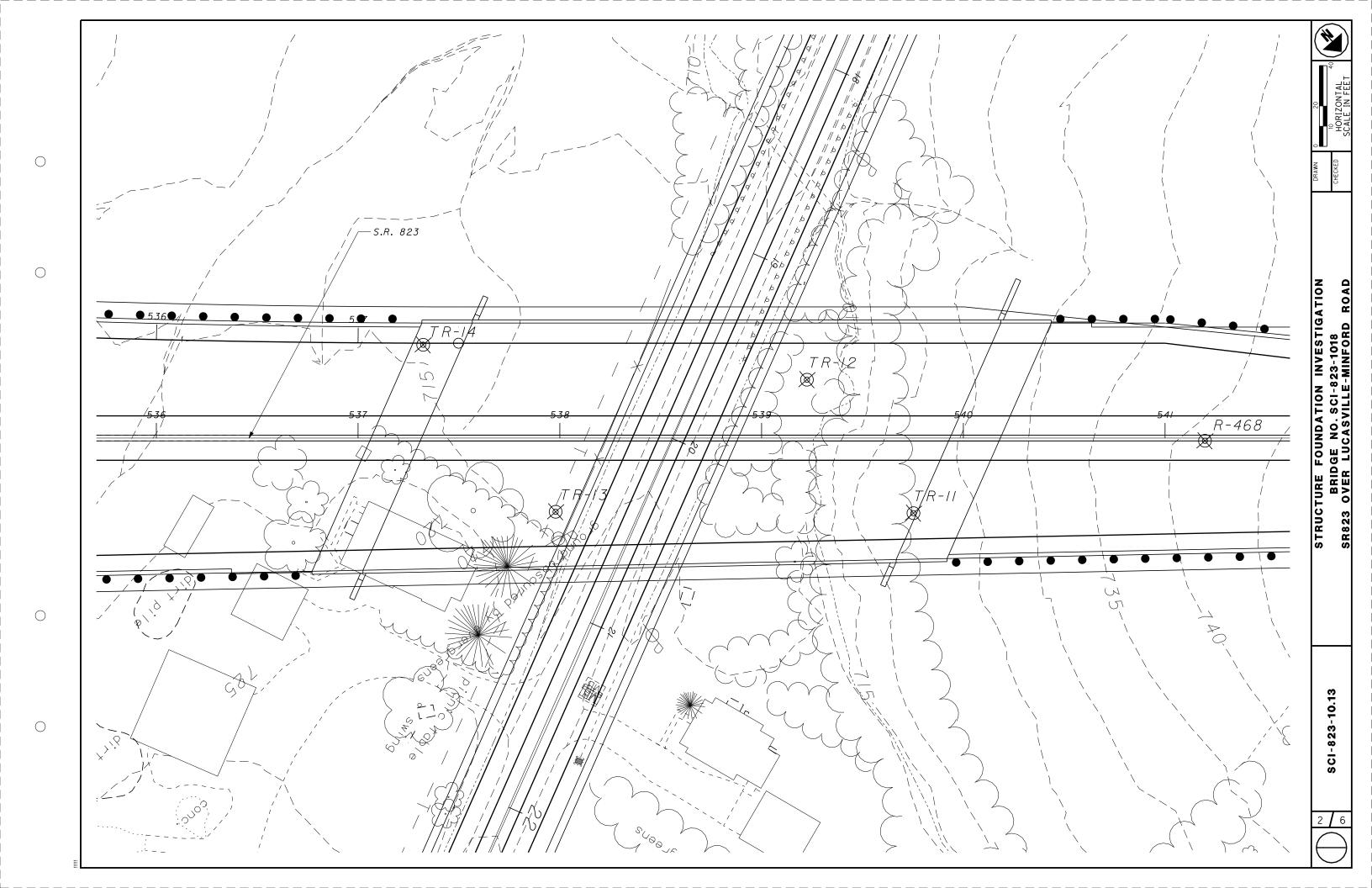


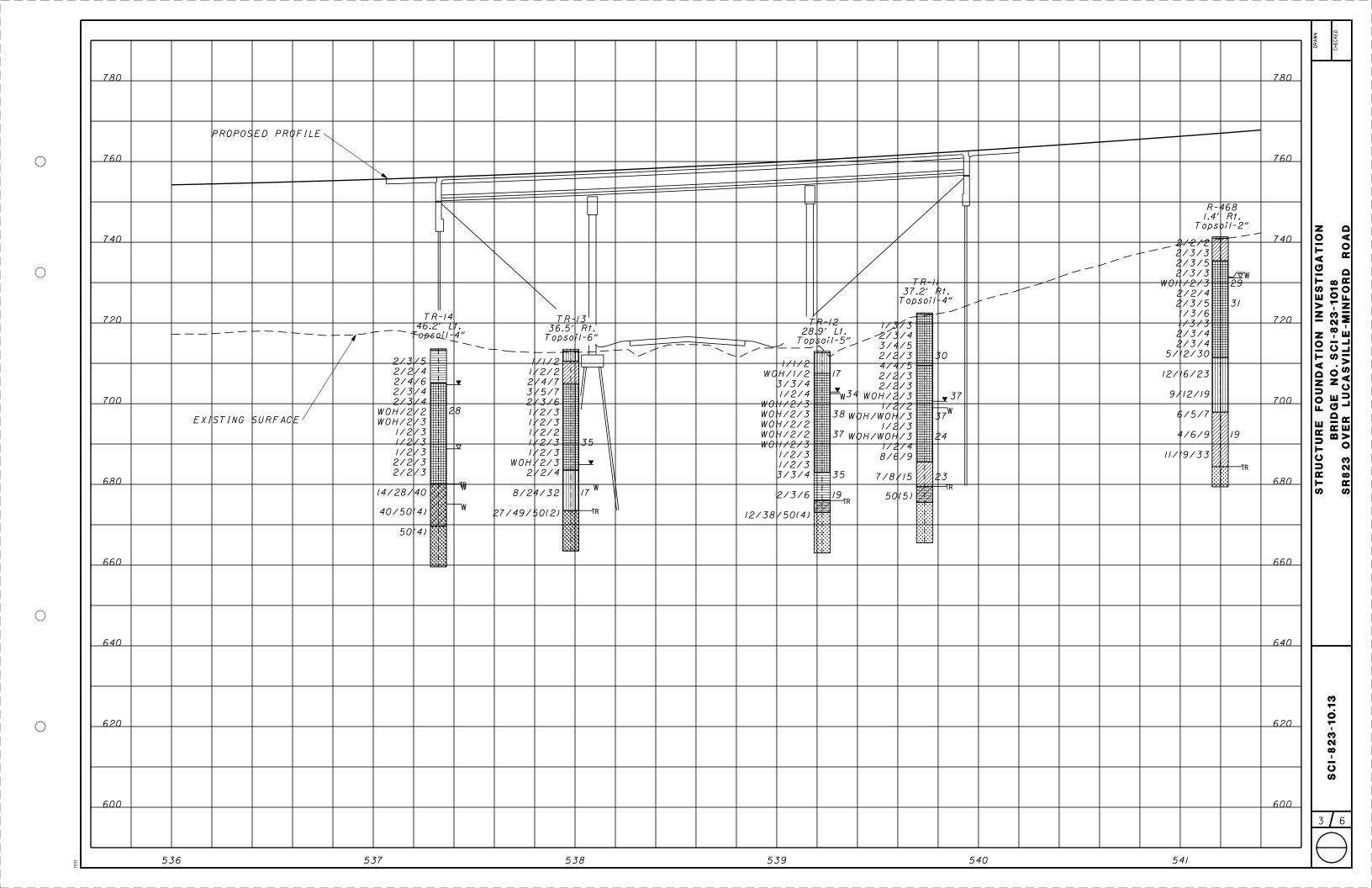
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Client: 1					٦.		Project: SCI-823-0.00			_				_				NO.	<u>. </u>	121-	-307	0.0	<u>-</u>	_	-
OG OF	: Boring		R-468	Sam	ole	ocation: Sta	. 541+19.8, 1.4 ft. RT of SR 823 CL Date Drilled: WATER	04/	15/0		RAD		to ON	−i	4/18	s/U5		_	_	_	_	_	_	_	-
Depth	Elev.	per 6"	ery (in)	No		Hand Penetro- meter	OBSERVATIONS: Water seepage at: 10.0' Water level at completion: 10.2 (prior to coring) 8.6' (includes drilling water)		egate						Na	atur	al M	DAR loisti	ure		ntent	ıt, %	, -		
(#) 9_=	(ft) 741.4 -741.0-	Blows	Recovery	Drive	Press / Core	(tsf)	DESCRIPTION Topsoil - 2"		% Aggregate	% C. Sand	% M. Sand	% F. Sand	# %	% Clay	11			ws p	er f	oot			40	Т	ī
- -		2 2	7	1		3.5	Very stiff to hard brown SILT AND CLAY (A-8a), little fine sand; damp.								φ										
5 —		² 3	16	2		4.5+										þ									
-6.0 - -	-735.4-	2 3 5	18	3		3.75	Stiff to very stiff brown CLAY (A-7-6), trace gravel, fine sand; damp to moist.									ϕ									
10 —		² 3 3	18	4		2.0	@ 9.9'-10.0', silt seam.																		
-		WOH 3	18	5		2.5			0	0	-	1	31	68							╢	\parallel	\prod	\parallel	
- 15		2 2 4	18	6		1.5																			
-		² 3 5	18	7		1.25			1	0	-	0	22	77		6			$\ \cdot \ $	\parallel	+	$\ $	\prod	+	
20 —		1 3 6	15	8		4.0										 									
_		1 3 3	18	9		1.75																			
25 —		3 4	18	10		1.25										0									
-		2 3 4	18	11倉		1.0	@ 26.0'-26.5', SILT AND CLAY (A-6a) seam, highly laminated.									Q.									
30.0—	-711.4 _:	5 12 30	16	12		3.0	Medium dense to dense brown SANDY SILT (A-4a), little															\	4) 	
-							gravel, trace clay; contains sandstone fragments; damp.																M		
35 —		12 16 23	18	13																			<i> </i>		
_																						$/\!\!/$			
40 —		9 12 19	17	14																	W Ø				
- - -	807.0																								
-43.5 — - 45 —	-081.9	6 5 7	18	15		-	Stiff brown SILT AND CLAY (A-6a), trace fine to coarse sand, trace gravel; moist.																		
-		4 6 .		16					6	3		4	60	27											
50 —		9	18	10		•			0	J	-	7	50	۲۱											
-		11 19 33	40	17		_																$\left \cdot \right $	$\left \cdot \right $		
55 — - -57.0—	-684.4-	33	18																				0	52	
-		Core 60"	Rec 60"		R-1		Medium hard dark gray SANDSTONE; very fine to fine grained, hightly to moderately weathered, argillaceous, micaceous, thinly laminated to medium																		

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							DLZ OHIO INC. * 6121 HUNTLEY ROAD, COLUMBUS, OHIO 43229 * (614)88	88-0	040										_
Client: 1			IC.		_		Project: SCI-823-0.00						Jo	b No	. 012	21-30	70.03	3	\Box
LOG OF	Boring	1	R-468			_ocation: Sta	. 541+19.8, 1.4 ft. RT of SR 823 CL Date Drilled: 04	4/15			to	4/18	/05						_
Depth (ft)	Elev. (ft)	Blows per 6"	Recovery (in)	Sam	Press / Core	Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: 10.0' Water level at completion: 10.2 (prior to coring) 8.6' (includes drilling water) DESCRIPTION	% Aggregate		% F. Sand		Na	STAI ntural PL I Bk	Moist		onte	nt, % —	-	N) •
-							Medium hard dark gray SANDSTONE; very fine to fine grained.	Г				Ш	Ш	Ш				Ш	
62.0	-679.4-						Bottom of Boring - 62.0'	\dagger											
65 — 70 — 75 —																			
80 — - - - 85 — - - - -																			

STRUCTURE FOUNDATION INVESTIGATION BRIDGE NO. SCI-823-1018 SR823 OVER LUCASVILLE-MINFORD ROAD

SCI-823-10.13

Department Dep	ENETRATION (N) Content, % -
Depth Section Sectio	Content, % -
3 3 18	— ц
3 3 18	86
5 3 49 2 2.5	66
3 1 5 10 3 1 5 10 3 1 5 10 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	66 66 1
Variable	66
3.0 - 709.5 -	96
2 3 18	66 1 →
WOH 2 3 18 0.5	•
T T T T T T T T T T	
2 18 WOH WOH 10 0.5	
25	
WOH WOH 3 18 12 0.5 @ 28.5', contains sandstone fragments. 30.0 683.0 4 18 12 0.5 Stiff gray and brown SILTY CLAY (A-6b), little fine to coarse sand, trace grayet; varyed; damp to moist.	'
30.0 683.0 Stiff gray and brown SILTY CLAY (A-6b), little fine to coarse and, trace gravel; varved; damp to moist.	,
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
sand; damp to moist. 0	50+ C
weathered to decomposed, argillaceous, micaceous, silghtty fractured, contains ferric bands and abundant argillaceous laminations, fissile after desiccation.	
45 — Severely Wearliered gray STALE. 45 — Core Rec 120" 92% R1 @ 45.9'-48.2', light brown slitstone layer.	
7.0 675.5 Medium hard gray SANDSTONE; very fine to fine grained, slightly to moderately weathered, argillaceous, micaceous, thinly laminated to very	
50— thinly bedded, slightly fractured, contains abundant argillaceous laminations.	
- Core Rec RQD R1 -	
55— - 57.0—865.5——————————————————————————————————	
Bottom of Boring - 57.0'	(

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lient: Tran	Svete	ne in	c					DLZ OHIO INC. * 6121 HUNTLEY ROAD, COLUMBUS, OHIO 43229 * (6) Project: SCI-823-0.00	•						Joh I	No o	121-30	70 03		ſ	Client:	TranSve	teme In	ic.					LZ OHIO INC. * 6121 HUNTLEY ROAD, C
OG OF: B			c. TR-13	_		Lor	ation: S	ta. 537+97.9, 36.5 ft. RT of SR 823 CL Date Driller	: 6/8/04						500	10. U	ال-1 ع	, 0.00	-	ŀ	LOG OF			tr-14		٦,	Location:	Sta F	537+32.3, 46.2 ft. LT of SR 823 CL
1	Onling		114-15		ampl No.		zauon. C	WATER OBSERVATIONS: Michael Control of the Control	0/0/04	GR	ADA	TION	Т							ı	200 01	Doing				nple o.			WATER OBSERVATIONS:
Deoth El	lev.	per 6"	(ii)		No.		Hand Penetro- meter	vvaler seepage at. 33.5-35.0	egate	pu	2 2	!							ON (N) - •		Depth	Elev.	per 6"	(ii)	N.	Core	Har Penet mete	nd ro-	OBSERVATIONS: Water seepage at: 33 Water level at completion: 24 8.6
71	lev. ft) 13.5	Blows p	Recovery	<u> </u>	9 i	Press /	(tsf)	DESCRIPTION	% Aggn	% C. Sand	% E	Silt %	% Clay		Blows		oot - 30	\bigcirc			Depth (ft)	(ft) 713.6	Blows	Recovery	Drive		(tsf)		DESCRIPTI
5 - 71		1 2	10		1		1.75	Topsoil - 6" Stiff gray SANDY SILT (A-4a), some clay, trace gravel; moist.						0							—0.3— - -	713.3	2 3 5	18	1		2.28	5	Topsoil - 4" Very stiff brown and gray SILTY CLAY (A-fine to coarse sand; moist.
.0——71 5——	10.5-	2 2	16		2		1.25	Stiff to very stiff brown SILT AND CLAY (A-6a), little fine to coarse sand, trace to little gravel; moist.													5 —		2 2 4	18	2		3.75	5	
	- 1	2 4 7	18	1	3		3.5	@ 6.0'-7.5', mottled brown and gray.							۵ ا						-		2 4 6	18	3		2.75	5	@ 6.0'-7.5', gray.
5 	05.0	5 7	18		4		3.25	Stiff to very stiff mottled brown and gray CLAY (A-7-6), trace fine to coarse sand; moist.							ϕ						—8.5 10 —	705.1	2 3 4	18	4		2.75	5	Stiff to very stiff brown CLAY (A-7-6), trace little fine to coarse sand; varved; damp to r
	ļ:	3 6	18		5		2.25							 ∉	/ }						-		2 3 4	18	5		2.25	5	
15 —	-	2 3	18	1	6		1.25							ϕ							15 —		WOH 2	18	6	ST-	1.0	١	@13.5', gray; qu=3820 psf.
		2 3	18	1	7		2.0	@ 16.0'-27.5', gray.						φ							-		WOH 2 3	18	7		1.5		
20 —		2 2	18	1	8		1.5							φ							20 —		1 2 3	18	8		1.25	5	
-	-	2 3	18		9		0.75	@ 21.0'-22.5', medium stiff.	٥	0 -	- 1	19	80	$ \bigcirc $			╫		53		-		1 2 3	18	9		1.25	5	
25 —	-	2 3	18	1	10		1.0							Ф							25 —		1 2 3	18	10	1	1.5		@ 23.5', gray and brown.
		МОН 3	18	•	11		1.5	@ 26.0', contains sand seams.						O							-		2 3	18	11		1.25	5	
0 68	33.5	² 2 4	18	 	12		1.5	Very dense gray and brown SANDY SILT (A-4a), little clay, trace gravel; contains sandstone fragments;	-												30 —	683.6	² ₂	18	12	:	2.0	١	@ 28.5', contains sand seams. Stiff to very stiff gray and brown CLAY (A-7 trace to little fine to coarse sand; varved; c
-		3						damp to moist.										$\left \right $			_33.5_	680.1	14						sand seams; damp to moist.
35 —		24 32	18		13				5	10 -	- 25	5 48	12					Non	Plastic 56 →		35 —		28 40	18	13	i			Severely weathered gray SILTSTONE.
	7	27 49 50/2	16	╣.	14																-		40 50/4	12	14				
0.0 67	73.5	50/2	10	l				Medium hard gray SILTSTONE; fissile. @40.0' - 44.9', core loss.											 5 0+(40 — -								
-		Core	Rec 61"	. : F	QD,			3.10.0 41.0, 0.00 1.00.0														669.6	50/4	4	15	<u>:</u>			Medium hard gray SILTSTONE; fissile.
45 — - -		Core 120"	61"	2	SQD 5%	(-1		@46.6' - 46.8', clay seam. @47.8' - 50.0', broken to highly fractured with occasional clay seams.													45 — -		Core 60"	Rec 54"	RQ 729	1D 76 R-1	ı		@ 45.7', 46.4', 49.3', 50.7', 53.0', clay sear @ 46.1'-46.7', 49.0'-49.3', broken to highly fractured.
50.0—66	33.5							Bottom of Boring - 50.0'													50 —				H				nacuieu.
-																					-		Core 60"	Rec 56"	RQ 779	1D 76 R-2	2		@ 52 51 52 71 continued franchism
-																			 	ļ	54 .0 	659.6	\vdash	_	\blacksquare	+		_	@ 53.5'-53.7', vertical fracture. Bottom of Boring - 54
55 —																			 		55 —	1							DOWN OF BOILING - 34.
1																			 		-								
+																			 		-	-							
-														Ш	Ш	$\Pi\Pi$	Ш	$\Pi\Pi$	 		-	1	1	1	П				

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Client, 7						[DLZ OHIO INC. * 6121 HUNTLEY ROAD, COLUMBUS, OHIO 43229 * (614)88	38-00	040						_	lab	NI-	040	4 20	70.00	•	1	N.	(ED
Client: 1			c. TR-14		Ti	ocation: Sta.	Project: SCI-823-0.00 537+32.3, 46.2 ft. LT of SR 823 CL Date Drilled: 6/	4/04				to		3/7/04	_	JOD	NO.	012	1-30	70.03)		DRAWN	CHECKED
			(in)	Sam	ple	Hand Penetro- meter	WATER OBSERVATIONS: Water seepage at: 33.5', 38.5' Water level at completion: 24.8' (Prior to coring) 8.9' (includes drilling water)	L	Γ	GR/		TIO			ST/						ON (N)			
Depth (ft)	Elev. (ft) 713.6 -713.3-	Blows per 6"	Recovery	Drive	Press / Core	(tsf)	DESCRIPTION ¬Topsoil - 4"	% Aggregate	% C. Sar	% M. Sa	% F. Sar	% Silt	% Clay		PL	⊢ Blow		r foo	t - 30					
-		² 3 5	18	1		2.25	Very stiff brown and gray SILTY CLAY (A-6b), little fine to coarse sand; moist.								ϕ									
5—		2 2 4	18	2		3.75	@ 6 0 7 Fl group																	
8.5 <i>-</i> -	-705.1-	2 4 6	18	3		2.75	@ 6.0'-7.5', gray. Stiff to very stiff brown CLAY (A-7-6), trace to																z	D
10 —		³ ₄	18	5		2.75 2.25	little fine to coarse sand; varved; damp to moist.								\$								3ATIO	ROAD
- - 15		WOH 2	18	6	ST-	1.0	@13.5', gray; qu=3820 psf.	0	0	-	0	7	93		7				∤		65		INVESTIGATION	1018 Ford
-		WOH 2 3	18	7		1.5																	N N	O. SCI-823-1018 SVILLE-MINFOR
20 —		1 2 3	18	8		1.25								С									ATION). SCI SVILL
-		1 2 3	18	9		1.25	⊚ 23.5', gray and brown.							С									Ž	GE NO LUCAS
25 — -		2 3 2 2 3		10		1.5 1.25								C										BRID Ver
30 —	683.6	2 2 3	18	12		2.0	@ 28.5', contains sand seams.							0									STRUCTURE	SR823 0
-							Stiff to very stiff gray and brown CLAY (A-7-6), trace to little fine to coarse sand; varved; contains sand seams; damp to moist.									\	\downarrow	\					ST	SR
-33.5 - 35	-680.1-	14 28 40	18	13			Severely weathered gray SILTSTONE.													(⊝68 →			
- - -		40 50/4	12	14																	\$0 +(
40 — - -																								
-44.0- 45	-669.6-		4	15	_		Medium hard gray SILTSTONE; fissile.	$\frac{1}{1}$													50+ (
_		Core 60"	Rec 54"	RQI 72%	R-1		@ 45.7', 46.4', 49.3', 50.7', 53.0', clay seams. @ 46.1'-46.7', 49.0'-49.3', broken to highly fractured.																	
50 — —		Core 60"	Rec 56"	RQI 77%	R-2																			-10.13
54.0 55	-659.6-						@ 53.5'-53.7', vertical fracture. Bottom of Boring - 54.0'	-															000	CI-823
-																							6	SCI
60																							6	/ 6

