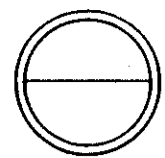


LOG OF BORING

Date Started 2-11-93 Sampler Type SS Dia. 2.0 inches Water Elev. \_\_\_\_\_  
 Date Completed 2-25-93 Casing length \_\_\_\_\_ Dia. 4.25 inches \_\_\_\_\_  
 Boring No. S-1 Station & Offset STA 401+51.58' Rt. Surface Elev. 652.0±

LAKE COUNTY  
 LAK-2-09.46



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ELEV.	DEPTH	STD.PEN. (N)	REC. FL	LOSS FL	DESCRIPTION	SAMPLE NO.	TYPE	PHYSICAL CHARACTERISTICS								SHTL CLASS		
								percent (%)					L.L.	P.L.	P.I.		W.C. %	
								AGG. SAND	COAR. SAND	FINE SAND	SILT	CLAY						
652.0	0																	
651.5	0.5				ASPHALT													
650.5	1.5	13-9-14	0.7		ROADBASE (sand and gravel) Medium dense, brown SAND, some gravel, moist.	1	SS	--	--	--	--	--	--	--	--	12.0		VISUAL
648.5	3.5	5-9-10	0.6			2	SS	67	9.8	12.7	--	70.8	--	--	--	13.5		A-4a
	4-8-9		0.3		Very stiff, brown and gray SANDY SILT, trace gravel, moist.	3	SS	--	--	--	--	--	--	--	--	12.0		VISUAL
638.5	13.5	7-7-10	0.5		Very stiff, brown and gray SILTY CLAY, little sand, moist.	4	SS	4.2	5.2	8.4	*	82.2	38.9	22.4	16.5	22.1		A-6b
637.0	15.0	9-12-18	0.3			5	SS	4.5	5.6	9.3	*	80.6	--	--	--	20.6		A-6a
	9-17-24		0.7			6	SS	--	--	--	--	--	--	--	--	19.0		VISUAL
	11-18-27		0.8			7	SS	6.0	6.8	10.1	*	77.1	--	--	--	15.7		A-6a
	7-14-20		0.7			8	SS	--	--	--	--	--	--	--	--	16.0		VISUAL
	8-17-24		0.5			9	SS	--	--	--	--	--	--	--	--	18.8		VISUAL
	19-33-47		1.5		Hard, brown to brown and gray SILT AND CLAY, little sand, moist.	10	SS	4.1	5.2	8.2	*	82.5	--	--	--	14.3		A-6a
	17-31-49		0.8			11	SS	--	--	--	--	--	--	--	--	14.2		VISUAL
	50/0.2'		0.2			12	SS	--	--	--	--	--	--	--	--	13.0		VISUAL
	14-15-18		1.5			13	SS	--	--	--	--	--	--	--	--	13.0		VISUAL
	17-18-18		1.5			14	SS	--	--	--	--	--	--	--	--	13.4		VISUAL
608.5	43.5	22-19-31	1.5			15	SS	6.8	4.8	8.2	43.5	36.7	--	--	--	12.8		A-4a
	14-20-25		1.5		Hard, gray, SANDY SILT, moist to wet.	16	SS	--	--	--	--	--	--	--	--	8.9		VISUAL
	10-17-18		1.5			17	SS	--	--	--	--	--	--	--	--	14.1		VISUAL
	10-13-19		1.5			18	SS	--	--	--	--	--	--	--	--	14.8		VISUAL
592.0	60.0				TERMINATION DEPTH 60.0 FEET													

\*SILT AND CLAY COMBINED

LOG OF BORING

Date Started 3-2-93 Sampler Type SS Dia. 2.0 inches Water Elev. \_\_\_\_\_  
 Date Completed 3-2-93 Casing length \_\_\_\_\_ Dia. 3.25 inches \_\_\_\_\_  
 Boring No. S-2 Station & Offset STA S.R. 615 Sta. 29+19. CL Surface Elev. 635.8±

ELEV.	DEPTH	STD.PEN. (N)	REC. FL	LOSS FL	DESCRIPTION	SAMPLE NO.	TYPE	PHYSICAL CHARACTERISTICS								SHTL CLASS		
								percent (%)					L.L.	P.L.	P.I.		W.C. %	
								AGG. SAND	COAR. SAND	FINE SAND	SILT	CLAY						
635.6	0																	
635.3	0.3				GRAVEL													
	3-3-5			A/S		1	SS	--	--	--	--	--	--	--	--	14.5		VISUAL
	3-6-7			1.0	Medium stiff to hard, gray SILT AND CLAY, little sand moist.	2	SS	--	--	--	--	--	--	--	--	15.6		VISUAL
	8-12-15			1.3	Note: fill material to 6.5 feet.	3	SS	7.0	8.3	11.3	36.9	36.5	--	--	--	14.5		A-6a
	10-12-18			1.5		4	SS	5.2	7.8	11.5	36.8	38.7	--	--	--	14.0		A-6a
	10-14-17			1.5		5	SS	--	--	--	--	--	--	--	--	11.2		VISUAL
620.6	15.0	10-14-19	1.5			6	SS	8.4	10.3	14.0	39.0	28.3	24.9	17.3	7.6	5.0		A-4a
	13-19-19		1.5			7	SS	--	--	--	--	--	--	--	--	10.3		VISUAL
	10-16-22		1.5		Hard, gray SANDY SILT, some clay, moist.	8	SS	--	--	--	--	--	--	--	--	11.2		VISUAL
	10-17-23		1.5			9	SS	--	--	--	--	--	--	--	--	9.9		VISUAL
	10-19-18		1.1			10	SS	7.6	8.7	10.6	*	73.1	--	--	--	16.3		A-4a
608.1	27.5	11-15-18	1.1			13	SS	--	--	--	--	--	--	--	--	13.2		VISUAL
	13-16-18		1.3		Hard, gray SILT AND CLAY, moist.	14	SS	--	--	--	--	--	--	--	--	10.5		VISUAL
	13-16-17		1.5			15	SS	--	--	--	--	--	--	--	--	10.9		VISUAL
600.6	35.0	17-19-19	1.5			16	SS	11.2	9.3	15.1	38.8	25.6	22.8	15.7	7.1	10.6		A-4a
	11-16-20				Hard, gray SANDY SILT, some clay, little gravel, moist.	18	SS	--	--	--	--	--	--	--	--	9.6		VISUAL
595.6	40.0				TERMINATION DEPTH 40.0 FEET													

\*SILT AND CLAY COMBINED

**R&R**  
 INTERNATIONAL, INC.  
 • AKRON, OH  
 • COLUMBUS, OH  
 • PITTSBURGH, PA  
 • COLUMBIA, MD

STRUCTURE FOUNDATION INVESTIGATION  
 BRIDGE NO. LAK-2-955 L/R  
 OVER STATE ROUTE 615  
 LAKE COUNTY, OHIO

BORING DATA

DATE	DRAWN	DESIGN	R & R PROJECT NO.
9/9/93	T.M.	W.N.	001240