



LOG OF BORING

Date Started 3-1-93 Sampler Type SS Dia. 2.0 inches Water Elev. _____
 Date Completed 3-1-93 Casing length _____ Dia. 3.25 inches
 Boring No. S-3 Station & Offset STA 403+42, 59' R.L. Surface Elev. 654.01

ELEV.	DEPTH	STD. PEN. (N)	REC. FT.	LOSS FT.	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								
654.0	0				ASPHALT ROADBASE (gravel)															
653.5	0.5					1	SS											12.9	VISUAL	
653.1	0.9					2	SS	6.7	7.5	10.4	*	75.4						16.0	A-4a	
	4-5-6	1.5				3	SS											14.3	VISUAL	
	4-5-5	1.5			Stiff, brown and gray to gray SANDY SILT, moist to dry.															
	5-6-9	1.0				4	SS	7.6	10.1	11.9	40.3	30.1	28.4	19.4	9.0		12.3	A-4a		
	7-9-7	1.3				5	SS	8.5	10.3	12.2	*	69.0					13.0	A-4a		
636.5	17.5					6	SS										15.8	VISUAL		
	7-7-8	1.0				7	SS	3.6	5.3	8.1	*	83.0	34.8	22.5	12.3		14.5	A-6a		
	8-9-15	0.7			Very stiff to hard, brown and gray SILT AND CLAY, dry.	8	SS												VISUAL	
	10-13-18	1.5				9	SS										10.7	VISUAL		
	10-17-19	1.5				10	SS										9.9	VISUAL		
	10-16-21	1.5				11	SS										8.7	VISUAL		
	10-17-17	1.5				12	SS										8.5	VISUAL		
19.0	35.0					13	SS										9.6	VISUAL		
	10-14-22	1.5				14	SS										9.3	VISUAL		
	10-20-25	1.5				15	SS										8.0	VISUAL		
	16-21-30	1.5			Hard, gray SILTY CLAY, little sand, little shale fragments	16	SS										9.8	VISUAL		
	17-31-54	1.5				17	SS	13.5	6.7	10.1	28.2	41.5					12.3	A-6b		
599.0	55.0				TERMINATION DEPTH 55.0 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-5 Station & Offset STA S.R. 615 31+01, CL Surface Elev. 635.51

ELEV.	DEPTH	STD. PEN. (N)	REC. FT.	LOSS FT.	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								
635.5	0																			
635.2	0.3				GRAVEL															
	2-3-3	0.5			Medium stiff, gray SILTY CLAY, some sand, little gravel, moist. (fill)	1	SS	14.4	8.5	9.7	31.6	35.8					15.7	A-6a		
632.0	3.5				Dense, gray, GRAVEL WITH SAND AND SILT, moist.	2	SS	45.8	15.2	13.3	*	25.7					13.5	A-2-4		
627.0	8.5					3	SS	4.6	4.8	7.6	*	83.0	33.8	21.8	12.0		15.4	A-6a		
	8-12-13	1.5				4	SS											13.0	VISUAL	
	10-16-16	1.5				5	SS	5.3	6.8	9.7	37.5	40.7					12.7	A-6a		
	10-12-18	1.5			Hard, gray SILT AND CLAY, little sand, trace gravel, moist.	6	SS											11.2	VISUAL	
	10-12-19	1.5				7	SS											11.4	VISUAL	
	12-14-17	1.5				8	SS											11.0	VISUAL	
	20-20-17	0.8				9	SS											9.6	VISUAL	
	15-18-22	1.5				10	SS											9.6	VISUAL	
605.5	30.0					11	SS	19.8	16.2	13.9	*	50.1					8.2	A-4a		
	20-30-33	0.2			Hard, gray SANDY SILT, little gravel, moist.	12	SS											8.5	VISUAL	
600.5	35.0					13	SS	7.2	9.0	12.8	*	71.0					11.0	A-6a		
	13-17-19	0.2			Hard, gray SILT AND CLAY, little sand, little gravel, moist.	14	SS											ERR	VISUAL	
	9-13-18	1.5				15	SS	13.4	7.6	9.6	*	69.4	28.4	17.7	10.7		13.3	A-6a		
590.5	45.0				TERMINATION DEPTH 45.0 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 9/8/93 DRAWN T.M. DESIGN W.H. R & R PROJECT NO. 001240