



LOG OF BORING

Date Started 2-11-93 Sampler Type SS Dia. 2.0 inches Water Elev. _____
 Date Completed 2-11-93 Casing length _____ Dia. 3.25 inches
 Boring No. R-1 Station & Offset STA 400+92, 58' Rt. Surface Elev. 652.0+

ELEV.	DEPTH	STD.PEN. (N)	REC. FL.	LOSS FL.	DESCRIPTION	SAMPLE		PHYSICAL CHARACTERISTICS								SHTL CLASS	
						NO.	TYPE	percent (%)									
								AGG.	COAR. SAND	FINE SAND	SILT	CLAY	L.L.	P.L.	P.I.		W.C. %
652.0	0				ASPHALT												
651.5	0.5				Brown ROADBASE (sand and gravel with concrete fragments)	1	SS	10.2	9.0	10.9	33.6	36.3	--	--	--	13.1	A-6a
650.5	1.5	8-12-12	0.5		Note: organic odor noted at 3.5 feet.	2	SS	--	--	--	--	--	--	--	--	17.3	VISUAL
		2-5-11	0.6		Stiff to very stiff, brown and gray SILT AND CLAY, moist.	3	SS	--	--	--	--	--	--	--	--	16.1	VISUAL
642.0	10.0	5-8-15	0.7		TERMINATION DEPTH 10.0 FEET												

*SILT AND CLAY COMBINED

LOG OF BORING

Date Started 2-25-93 Sampler Type SS Dia. 2.0 inches Water Elev. _____
 Date Completed 2-25-93 Casing length _____ Dia. 3.25 inches
 Boring No. R-3 Station & Offset STA 401+17, 58' Lt. Surface Elev. 651.9+

ELEV.	DEPTH	STD.PEN. (N)	REC. FL.	LOSS FL.	DESCRIPTION	SAMPLE		PHYSICAL CHARACTERISTICS								SHTL CLASS	
						NO.	TYPE	percent (%)									
								AGG.	COAR. SAND	FINE SAND	SILT	CLAY	L.L.	P.L.	P.I.		W.C. %
651.9	0				ASPHALT												
651.3	0.6					1	SS	7.9	8.2	12.0	34.6	37.3	--	--	--	14.3	A-6a
		7-8-9	1.5			2	SS	--	--	--	--	--	--	--	--	12.1	VISUAL
		7-7-7	1.5		Very stiff to stiff, gray, SILT AND CLAY, trace gravel to some gravel, trace to some sand, moist.	3	SS	1.7	2.7	7.4	*	88.2	--	--	--	22.2	A-6a
641.9	10.0	3-7-7	1.5		TERMINATION DEPTH 10.0 FEET												

*SILT AND CLAY COMBINED

LOG OF BORING

Date Started 2-28-93 Sampler Type SS Dia. 2.0 inches Water Elev. _____
 Date Completed 2-28-93 Casing length _____ Dia. 3.25 inches
 Boring No. R-2 Station & Offset STA 404+50, 59' Lt. Surface Elev. 650.8+

ELEV.	DEPTH	STD.PEN. (N)	REC. FL.	LOSS FL.	DESCRIPTION	SAMPLE		PHYSICAL CHARACTERISTICS								SHTL CLASS	
						NO.	TYPE	percent (%)									
								AGG.	COAR. SAND	FINE SAND	SILT	CLAY	L.L.	P.L.	P.I.		W.C. %
650.8	0				ASPHALT												
649.8	1.0				Brown ROADBASE (sand and gravel with concrete fragments)	1	SS	6.8	5.9	11.1	32.2	44.0	--	--	--	18.1	A-6a
647.3	3.5	5-6-8	1.5		Stiff, brown and gray, SILT AND CLAY, moist.	2	SS	7.6	10.6	12.9	39.9	29.0	27.0	18.1	8.9	12.3	A-4a
		5-6-7	1.5		Stiff, brown and gray SANDY SILT, moist.	3	SS	--	--	--	--	--	--	--	--	12.9	VISUAL
640.8	10.0				TERMINATION DEPTH 10.0 FEET												

*SILT AND CLAY COMBINED

LOG OF BORING

Date Started 2-15-93 Sampler Type SS Dia. 2.0 inches Water Elev. _____
 Date Completed 2-15-93 Casing length _____ Dia. 3.25 inches
 Boring No. R-4 Station & Offset STA 404+62, 58' Lt. Surface Elev. 650.9+

ELEV.	DEPTH	STD.PEN. (N)	REC. FL.	LOSS FL.	DESCRIPTION	SAMPLE		PHYSICAL CHARACTERISTICS								SHTL CLASS	
						NO.	TYPE	percent (%)									
								AGG.	COAR. SAND	FINE SAND	SILT	CLAY	L.L.	P.L.	P.I.		W.C. %
650.9	0				ASPHALT												
649.6	0.7				Brown ROADBASE (sand and gravel with concrete fragments)	1	SS	23.9	20.3	14.3	*	41.5	--	--	--	11.4	A-4a
647.4	3.5	2-5-7	0.5		Stiff, brown SANDY SILT, some gravel, moist.	2	SS	--	--	--	--	--	--	--	--	17.9	VISUAL
		2-2-7	0.2		Stiff, brown and gray SILT AND CLAY, moist.	3	SS	--	--	--	--	--	--	--	--	17.6	VISUAL
640.9	10.0				TERMINATION DEPTH 10.0 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: 9/9/93 DRAWN: T.M. DESIGN: W.N. R & R PROJECT NO.: 001240