B-1

START 1/22/59
FINISH 1/22/59
HOLE NO. B-1
GR.W. DEPTH NO G.W.

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			5				MISCELLANEOUS FILL	
			3					
	1	4 5 6 11	6					
			15					
5	2	6 7 10 17	17	M	BR.		MEDIUM CLAY	
			18					
			23					
			25					
10	3	4 12 12 24	26	M	R.		FIRM CLAYEY SILT	
			15/6					
15								
20								
25								
30								

B-2

START 1/20/59
FINISH 1/20/59
HOLE NO. B-2
G. W. DEPTH 15.5'

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			22				MISCELLANEOUS FILL	
			7					
	1	3 7 11 18	12					
			29					
5	2	13 16 22 38	37	M	BR.		STIFF TO HARD CLAY	
			41					
			50					
			43					
10			40					
			44					
	3	9 11 13 24	57					
			42					
15			60	M	R		FIRM CLAYEY SILT	
			65					
	4	10 15 15 30	50					
			41					
20			34					
			29					
	5	5 4 5 9	30					
			43	W	R & GR.		MEDIUM CLAY, W/ SILT LENSES TRACE OF GRAVEL AT 23.0' DEPTH.	
25			30					
			24					
	6	8 8 8 6	11/6	W				
30								

B-3

START 1/15/59
FINISH 1/15/59
HOLE NO. B-3
G.W. DEPTH NO G.W.

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			5				TOPSOIL	
			5					
	1	4 7 12 19	9					
			22					
5	2	19 21 26 47	28	M	BR.		STIFF TO HARD CLAY	
			41					
			48					
			40					
10			42					
			88					
	3	14 22 22 44	18/6	M	R		COMPACT CLAYEY SILT	
15								
20								
25								
30								

B-4

START 1/14/59
FINISH 1/15/59
HOLE NO. B-4
G.W. DEPTH 10.0'

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			5				TOPSOIL	
			4					
	1	3 6 13 19	2					
			8					
5	2	22 32 31 63	12	M	BR.		STIFF TO HARD CLAY	
			25					
			40					
			45					
10			62					
	3	11 16 21 86	55					
			81					
			95		BR. & GR.		FIRM TO COMPACT CLAYEY SILT.	
15			115	M				
			102					
	4	15 10 10 20	85					
			60					
20			63					
			68					
	5	5 4 5 9	72					
			54	W	R		LOOSE CLAYEY SILT. TRACE OF FINE SAND.	
			46					
			43					
25	6	9 11 5 16	20/6	M	R		FIRM SILTY SAND & GRAVEL	
30								

B-5

START 1/14/59
FINISH 1/14/59
HOLE NO. B-5
G.W. DEPTH NO G.W.

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			12				TOPSOIL	
			7					
	1	4 9 12 21	12					
			20	M	R		STIFF TO HARD CLAY	
5	2	14 19 21 40	17					
			30					
			49					
			69					
10	3	12 13 10 23 25/6	55	M	R		FIRM CLAYEY SILT, TRACE OF FINE SAND.	
15								
20								
25								
30								

B-6

START 1/22/59
FINISH 1/22/59
HOLE NO. B-6
GR.W.DEPTH NO G.W.

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			4				MISCELLANEOUS FILL.	
			5					
	1	3 7 12 19	12					
			16				STIFF TO HARD CLAY.	
5	2	7 15 20 35	24	M	R			
			21					
			27					
			26					
10			26					
			80					
	3	4 7 10 17	17/6	M	R		FIRM CLAYEY SILT, TRACE OF FINE SAND.	
15								
20								
25								
30								

B-7

START 1/19/59
FINISH 1/19/59
HOLE NO. B-7
G.W. DEPTH NO G.W.

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			21				MISCELLANEOUS FILL	
			7					
	1	6 11 14 25	15					
			39					
5	2	10 16 22 38	49	M	R		HARD CLAY	
			23					
			27					
			30					
10			36					
	3	7 10 15 25	36					
			16/6	M	R		FIRM CLAYEY SILT, TRACE OF FINE SAND.	
15								
20								
25								
30								

B-8

START 1/22/59
FINISH 1/22/59
HOLE NO. B-8
G.W. DEPTH NO G.W.

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			16				MISCELLANEOUS FILL	
			8					
	1	6 11 14 25	9					
			18					
5	2	7 13 17 30	29	M	R		HARD CLAY	
			21					
			22					
			25					
10			32					
	3	8 16 15 31	26	M	R		COMPACT CLAYEY SILT TRACE OF FINE SAND	
			15/6					
15								
20								
25								
30								

B-9

START 1/23/59
FINISH 1/23/59
HOLE NO. B-9
G.W. DEPTH NO G.W.

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			160	P			MISCELLANEOUS FILL	
			134					
	1	6 8 7 15	26	M	R		MEDIUM CLAY	
			27					
5	2	6 10 9 19	24					
			22		BR. & GR.		FIRM CLAYEY SILT, TRACE OF FINE SAND	
			26					
			32	M				
			28					
10			44					
	3	9 12 12 24	26/6					
15							NOTE: HIGH CASING BLOWS ON FIRST TWO FEET DUE TO 1.5' FROST IN GROUND.	
20								
25								
30								

B-10

START 1/22/59
FINISH 1/23/59
HOLE NO. B-10
G.W. DEPTH NO G.W.

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			3				MISCELLANEOUS FILL	
			5					
	1	8 10 12 22	12					
			16	M	R		STIFF CLAY	
5	2	6 12 13 25	18					
			16					
			19				FIRM CLAYEY SILT, TRACE OF FINE SAND.	
10			28					
	3	8 8 6 9 15	33	M	R			
			17/6					
15								
20								
25								
30								

B-11

START 1/24/59
FINISH 1/24/59
HOLE NO. B-11
G.W.DEPTH 16.5'

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			23				MISCELLANEOUS FILL	
			18					
	1	5 9 11 20	15					
			27					
5	2	6 11 14 25	30					
			34	M	BR.		STIFF CLAY	
			48					
			40					
10			30					
	3	8 12 15 27	45					
			46					
			35	M	BR.		FIRM CLAYEY SILT,	
			25					
15			37					
			58					
	4	4 5 4 9	32					
			35	M	GR.		MEDIUM CLAY W/ SAND LENSES	
			28					
20			33					
			35					
	5	3 3 4 7	32	W	BR.		LOOSE UNIFORM SILT, TRACE OF SAND.	
			28					
			24	W	BR.		LOOSE SILTY SAND, SOME GRAVEL	
25	6	1 2 3 5	12/6					
30								

B-12

START 1/20/59
FINISH 1/21/59
HOLE NO. B-12
G.W. DEPTH NO G.W.

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			6				MISCELLANEOUS FILL	
			6					
	1	3 5 11 16	8					
			29					
5	2	10 18 19 29	42	M	R		STIFF TO HARD CLAY	
			42					
			44					
			44					
10			46					
	3	7 13 18 28	38					
			22	M	R		FIRM CLAYEY SILT, TRACE OF SAND.	
			37					
15			37					
			22					
	4	4 5 9 14	26					
			44	M	R		MEDIUM CLAY	
			48					
20			44					
			40					
	5	12 12 11 23	40	M	R		FIRM CLAYEY SILT, TRACE OF FINE SAND.	
			37					
			42					
25	6	3 4 5 9	20/6	M	GR.		MEDIUM CLAY, W/ LENSES OF SILT.	
30								

B-13

START 1/23/59
FINISH 1/23/59
HOLE NO. B-13
G.W. DEPTH NO G.W.

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			13				MISCELLANEOUS FILL	
			8					
	1	2 4 7 11	12					
			20					
5	2	4 9 10 19	20					
			17	M	BR.		MEDIUM TO STIFF CLAY	
			20					
			22					
10			27					
	3	6 9 9 18	36					
			17/6	M	R		FIRM CLAYEY SILT	
15							FIRM SILT	
20								
25								
30								

B-14

START 1/23/59
FINISH 1/23/59
HOLE NO. B-14
G.W. DEPTH NO G.W.

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			23				MISCELLANEOUS FILL	
			19					
	1	6 12 14 26	32					
			28					
5	2	6 12 19 31	26	M	BR.		HARD CLAY	
			24					
			39					
			39					
10			24					
	3	6 10 13 23	23	M	R		FIRM CLAYEY SILT	
			18/6					
15								
20								
25								
30								

B-15

START 1/23/59
FINISH 1/23/59
HOLE NO. B-15
G.W. DEPTH NO G.W.

DEPTH BELOW GRD. SURF.	SAMPLE NO.	BLOWS ON SAMPLER 0–6 / 6–12 / 12–18 / N	BLOWS ON CASING C	MOISTURE	COLOR	CROSS SECTION	SOIL CLASSIFICATION	TEST DATA
0			8				MISCELLANEOUS FILL	
			6					
	1	3 6 8 14	8	M	BR.		STIFF CLAY.	
			12					
5	2	6 10 10 20	17					
			18					
			28					
			25	M.	R		FIRM CLAYEY SILT, TRACE OF FINE SAND.	
10			23					
	3	4 8 8 16	14/6					
15								
20								
25								
30								

NOTATION:
N = NO. OF BLOWS TO DRIVE 2" SPOON 12" WITH 140# PIN WT. FALLING 30" PER BLOW
C = NO. BLOWS TO DRIVE 2½" CASING 12" WITH 300# WEIGHT FALLING 24" PER BLOW
W = WATER CONTENT, DRY WEIGHT BASIS

SOIL CLASSIFICATION: VISSAL BY LABORATORY TECHNICIAN

GENERAL NOTES:
1. ALL INVESTIGATION WORK WAS DONE BY EMPIRE SOILS INVESTIGATIONS, INC.
2. ROCK WAS NOT ENCOUNTERED
3. FIELD WORK WAS DONE DURING PERIOD OF JAN. 14 - 24, 1959

TEST BORING DATA

100 UNITS LOW RENT HOUSING
P.H.A. N.Y. 11-2 FOR THE
NIAGARA FALLS HOUSING AUTHORITY
NIAGARA FALLS, NEW YORK

SHACKLETON AND FITZGERALD, A.I.A.
ARCHITECTS
1513 LOCKPORT STREET
NIAGARA FALLS, N. Y.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT SITE BEFORE STARTING WORK

R. R. FITZGERALD No. 6818
E. R. SHACKLETON No. 6887

SCALE: AS NOTED
JOB NO.: 58-147
DATE: 5-16-60
DWG. NO.: S-8