PIER 9W SOUTH

HOLE 17-HR
EQUIPMENT TYPE I

GROUND EL. 14.5'

C	S	Elev	
48	19		
53	32		TOP SOIL AND COAL DUST
59	41		
64		+10	
70	22		YELLOW-BROWN M. TO F. SAND
43	50		AND M. TO F. (-) GRAVEL, TRACE
95	70		SILT; GRAVEL ANGULAR
108			WATER TABLE +3'
122			
134	14		YELLOW F. SAND AND SILT
26	15		
43	17		
56		0.0	
71			
79			
92	11		YELLOW-BROWN F. SAND,
22	12		SOME SILT
47	17		
44			
37			
40	8		
30	12		GRAY-BROWN F. SAND
37	14		
36		-10	
33			
34			
23	6		TAN SILT AND F. SAND
36	10		
48	12		
37			
32	7		
25	10		TAN F. SAND, SOME SILT
37	16		
40			
41		-20	
46			
39	8		
39	12		TAN F. SAND
28	14		
34			
37	7		
33	11		YELLOW-BROWN F. SAND,
48	16		SOME SILT
41		-30	
46			
37	6		
48	11		TAN F. SAND
55	15		
59			
62	8		
35	14		TAN F. SAND, LITTLE SILT
53	21		

300/10"

ROCK EL. -37.5'
DRILLED 5'; 52" RECOVERY

-40

C — 1 PIECE 23" LONG, REMAINDER ± 3" TO 6" LONG
ROCK-GRAY MICA SCHIST
SEPARATED ON CLEAVAGE LINES ± 45°, FRESH-FEW SIGNS OF WEATHERING.

DRILLING TIME

FT.	MIN.
1	10
2	10
3	12
4	12
5	12

-50

-60

PIER 9W NORTH

HOLE 18-HR
EQUIPMENT TYPE I

GROUND EL. 28.0'

C	S	Elev	
2			
3			
4			No Samples — Drove Casing Thru Coal Pile
7			
6			
5			
5			
7			
9			
9			
6			
8			
9			
27	18		BROWN F. SAND & SILT, TRACE
18	26		DECAYED ROCK FLAKES
19	8		
35			
180			
76	38		BROWN F. SAND, SOME SILT
37	40		
42	36		WATER TABLE EL. +4.8'
41			
43			
48	8		
23	6		TAN COARSE SILT
25	5		
27			
27	6		
25	7		TAN F. (-) SAND AND SILT
28	7		
30			
34			
33			
34	8		
32	6		TAN F. SAND, LITTLE SILT
33	7		
39			
41			
39	8		
35	6		TAN SILT
36	10		
36			
38			
40	7		
36	9		TAN F. SAND, LITTLE SILT
39	8		
41			
40			
40	8		
37	9		TAN SILT
42	10		
44			
44			
46	6		
45	7		TAN COARSE SILT
49	9		
48			
48			
52	9		
50	10		TAN F. SAND AND SILT
54	14		
55			
54			
54	8		
53	11		YELLOW-BROWN SILT
65	11		
88			
63			
98	18		TAN F. SAND, LITTLE SILT,
127	43		TRACE F. (-) GRAVEL
133	68		
157			
162			
168			
224	22		TAN F. SAND & F(-) GRAVEL
379	59		TRACE SILT
	86		ROCK EL. -49.0'

C — DRILLED 5'; 39" RECOVERY 3 PCS ± 7" LONG, REMAINDER IN FRAGMENTS. ROCK-GRAY SCHISTOSE DENSE STRUCTURE FRESH SEPARATIONS ON ± HORIZONTAL LINES.

DRILLING TIME

FT.	MIN.
1	13
2	17
3	15

PIER 8W SOUTH

HOLE 19-HR
EQUIPMENT TYPE I

GROUND EL. 14.7'

C	S	Elev	
51	31		YELLOW-BROWN F. SAND, LITTLE
78	33		F. GRAVEL
132	35		
79			
26			
22	10		YELLOW-BROWN F. SAND AND M. TO
31	11		F. GRAVEL, TRACE CLAYEY SILT;
98	11		GRAVEL ANGULAR WITH DE-
153			COMPOSED PARTS.
307	95		M. TO F. (-) GRAVEL, SOME C. TO F.
117	81		SAND, TRACE CLAYEY SILT.
103	60		
62			WATER TABLE EL. +4.2'
43			
45			
38	12		TAN F. SAND
47	14		
42			
37			
36	12		
33	14		TAN F. (-) SAND AND SILT
35	16		
38			
27			
29			
34	5		TAN F. SAND
42	8		
35	12		
32			
27	7		
28	10		TAN COARSE SILT
34	13		
34			
203			

C — ROCK EL. -20.3'
DRILLED 5' RECOVERY 46"
1 PIECE 21" LONG, REMAINDER ± 3" LONG.
ROCK-GRAY MICA SCHIST
FRESH, DENSE STRUCTURE

DRILLING TIME

FT.	MIN.
1	18
2	20
3	20
4	20
5	20

PIER 8W NORTH

HOLE 20-HR
EQUIPMENT TYPE I

GROUND EL. 13.9'

C	S	Elev	
14	17		COAL DUST & FRAGMENTS OF
38	22		COAL
51	39		
49			
39	20		M. TO F. GRAVEL & GRAY-BROWN
25	21		M. TO F. SAND, LITTLE CLAYEY SILT;
31	18		GRAVEL GENERALLY WATERWORN
69			
72			WATER TABLE EL. +4.9'
70	100		C. TO F. GRAVEL AND GRAY-BROWN
68	40		M. TO F. SAND, LITTLE SILT,
70	30		GRAVEL ROUNDED.
74			
76			
75	8		
30	7		YELLOW-BROWN F. SAND,
33	13		SOME SILT
37			
38			
40	9		
35	11		GRAY-BROWN COARSE SILT
43	11		
37			
39			
34	7		
24	11		GRAY-BROWN SILT, TRACE
31	13		CLAY
38			
37			
36	9		
37	13		GRAY-BROWN SILT
49	11		
43			
47			
50	7		
40	11		YELLOW-BROWN FINE SAND
41	12		AND SILT
91			ROCK EL. -24.3'
265/12"			

C — DRILLED 1'-3" 14" RECOV. 4 PCS. 2" TO 4" LG. 3 FRAG. DARK GRAY GRANULAR MICA SCHIST. LARGE PCS. FRACTURED DURING CORING HORIZONTALLY AT EMBEDDED QUARTZITE NEARLY VERTICAL SEAMS; FRAGMENTS FRACTURED AT SEAMS SHOW SOME WEATHERING.
DRILLED 3'-9", 39" RECOV. 6 PCS. 2" TO 10", 4 FRAG.

DRILLING TIME

FT.	MIN.
1	10
2	12
3	9
4	13
5	14

LEGEND
C = Casing blows per foot
S = Sample blows per 6"

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF STRATFORD AND MILFORD
GREENWICH - KILLINGLY EXPRESSWAY
HOUSATONIC RIVER BRIDGE
SUBSTRUCTURE
BORINGS
PIERS 11W - 4W

DESIGNED BY PARSONS, BRINCKERHOFF, HALL & MACDONALD

SCALES

MADE BY R.E.L. DATE 12-21-54

CHECKED BY J.E.G. DATE 1-3-55

APPROVED M.E.F. DATE 2-14-55

PROJECT NO. 313-01

BRIDGE SHEET NO. 5 OF 20

PIER 7W SOUTH

HOLE 21-HR
EQUIPMENT TYPE I

GROUND EL. 14.6'

C	S	
38	28	YELLOW-BROWN F. SAND, SOME
81	51	F. GRAVEL, TRACE SILT; WITH
146	70	COAL FRAGMENTS.
43		
10	25	DARK-BROWN F. SAND, LITTLE
30	21	CLAYEY SILT; FLOCCULATED
41	16	SUSPENSION NOTICEABLE
29		
60		
107	46	YELLOW-BROWN C.(+) TO F. SAND AND
34	44	M. TO F.(-) GRAVEL, LITTLE CLAYEY
38	33	SILT, GRAVEL SUB-ANGULAR
37		WATER TABLE EL. + 3.9'
29		
40		
17	9	TAN F. SAND, SOME SILT
45	12	
53	16	
37		
72	47	BROWN F. SAND, TRACE SILT
76		ROCK EL. -5.7'
		DRILLED 5', RECOVERY 59"
		3 PCS. ROCK-GRAY SCHISTOSE,
		FRESH CORED WITH NO BREAK
		IN LAMINATIONS.

REMARKS:
THIS BORING WAS MADE IN COAL-YARD AT BOTTOM OF STOCK-PILE

PIER 7W NORTH

HOLE 22-HR
EQUIPMENT TYPE I

GROUND EL. +13.6'

C	S	
33	33	ORANGE-BROWN M. TO F. SAND
101	47	& F.(-) GRAVEL; GRAVEL ANGULAR
142	65	TRACES OF ROOTS SEEN.
90		
39	10	YELLOW-BROWN F.(-) SAND
27	8	AND SILT
28	6	
31		WATER TABLE EL. +6.4'
36		
42	19	
20	16	GRAY-BROWN COARSE SILT,
26	19	TRACE F. SAND.
24		
29		
27	10	
18	10	GRAY-BROWN F. SAND & SILT
29	13	
35		
33		
33	5	GRAY-BROWN F. SAND AND
16	6	SILT, WITH MICA FLAKES
28	6	
33		
37		
44	73	GRAY-BROWN SILT
189 1/2"		ROCK EL. -11.6'
		DRILLED 5', RECOVERY 58"
		7 PCS. ROCK-GRAY SCHISTOSE
		FRESH.

DRILLING TIME

FT.	MIN.
1	18
2	18
3	20
4	20
5	20

PIER 6W SOUTH

HOLE 23-HR
EQUIPMENT TYPE I

GROUND EL. 12.9'

C	S	
36	25	BROWN F. SAND AND F.
39	31	GRAVEL, SOME ROCK FRAGMENTS
41	34	DRY
49		
55	28	GRAY AND BROWN F. TO C. SAND
37	38	AND FINE GRAVEL, WET
26	36	
38		WATER TABLE EL. + 4.0'
43		
62	47	SAME AS ABOVE WITH ROCK
90	59	FRAGMENTS, PROBABLY HEAVY
107	74	GRAVEL.
189		
185		
190	60	GRAY F. TO C. SAND AND F.
88	71	GRAVEL, TRACE SILT AND ROCK
81		FRAGMENTS, MOIST, COMPACT
		ROCK EL. -4.0'
		CORED 2', 16" RECOVERY 8 PCS.
		CORED 3', 27" RECOVERY 9 PCS.
		MICA SCHIST

DRILLING TIME

FT.	MIN.
1	15
2	15
3	15
4	14
5	14

REMARKS:
ROCK IS GRAY, DENSE WITH NEARLY VERTICAL LAMINATIONS, SOME WEATHERING.

PIER 6W ℄

HOLE 24A-HR
EQUIPMENT TYPE I

GROUND EL. 15.1'

C	S	
4	3	COAL DUST AND FRAGMENTS
11	3	
13	4	
79		
100	36	YELLOW-BROWN F. SAND AND CLAYEY
80	37	SILT, TRACE F. GRAVEL, UPPER PART OF
91	52	SPOON SHOWS ADMIXTURE OF OR-
100		GANIC MATERIAL
15		WATER TABLE EL. +5.8'
12	7	
10	6	YELLOW-BROWN F. SAND AND SILT, SOME
16	9	M. TO F.(-) GRAVEL; GRAVEL ANGULAR
49		
200		M. TO F.(-) GRAVEL AND BRN. C. TO F.
271/6"	100	SAND. GRAVEL IS COMPOSED OF
	126	ROCK FRAGMENTS CRUSTED WITH
	279	NEARLY DECOMPOSED PARTS.

BOTTOM OF HOLE EL -1.4

REMARKS:
LAST SAMPLE WAS RECOVERED WITH OPEN ROD.

LEGEND
C = Casing blows per foot
S = Sample blows per 6"

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF STRATFORD AND MILFORD
GREENWICH - KILLINGLY EXPRESSWAY
HOUSATONIC RIVER BRIDGE
SUBSTRUCTURE
BORINGS
PIERS 11W - 4W

DESIGNED BY PARSONS, BRINCKERHOFF, HALL & MACDONALD
SCALES
MADE BY R.E.L. DATE 12-21-54
CHECKED BY J.E.G. DATE 1-3-55
APPROVED M.E.F. DATE 2-14-55
PROJECT NO. 313-01
BRIDGE SHEET NO. 5 OF 20

PIER 6W NORTH

HOLE 24-HR
EQUIPMENT TYPE I

WATER TABLE EL. +7.4'
GROUND EL. 12.9'

C	S	
14	10	GRAY-BROWN C. TO F. SAND & M.
21	12	TO F. GRAVEL WITH MIXTURE
25	17	OF COAL DUST
61		
73	52	DARK-BROWN CLAYEY SILT & M.
87	61	TO F.(-) GRAVEL, SOME C. SAND;
232	83	GRAVEL IS SUB-ANGULAR WITH
		DECAYED PARTS.
		ROCK EL. 5.9'
		DRILLED 8' RECOVERY 77"
		20 PCS. & 6 FRAGMENTS
		ROCK-UPPER PART, LIGHT
		GRAY SCHISTOSE, HIGH MICA
		CONTENT, LOWER PART
		CHANGES TO DARK GRAY
		GNEISS TYPE WITH FINE
		DENSE STRUCTURE, NO LUSTER

DRILLING TIME

FT.	MIN.
1	18
2	18
3	20
4	15
5	15
6	18
7	18
8	15

REMARKS:
DIAMOND BIT USED ON THIS BORING WAS WORN; THEREFORE DRILLING TIME SHOWN DOES NOT REPRESENT DIFFERENT (HARDER) ROCK COMPOSITION THAN THAT OF VICINITY.

PIER 5W SOUTH

HOLE 25-HR
EQUIPMENT TYPE I

WATER TABLE EL. NONE RECORDED
GROUND EL. 6.4'

C	S	
4	10	COAL
3	21	
10	38	
15		
25	35	FINE BROWN SAND, SOME FINE
27	67	GRAVEL TRACE SILT
187	91	
269/8"		ROCK EL. -1.4'
		DRILLED 2', 12" REC. SMALL PCS. OF
		WEATHERED MICA SCHIST NEAR
		VERTICAL SEAMS.
		DRILLED 3', 25" REC. 10 PCS. OF
		MICA SCHIST, CLEAN BREAKS, NO
		WEATHERING, NEAR VERTICAL
		SEAMS.

DRILLING TIME

FT.	MIN.
1	10
2	11
3	14
4	17
5	18

PIER 5W ℄

HOLE 26A-HR
EQUIPMENT TYPE I

GROUND EL. 6.7'

C	S	
6	5	M. TO F. GRAVEL AND GRAY-BROWN C.
12	1	TO F. SAND, TRACE SILT; SAND SHOWS
11	1	ADMIXTURE OF ORGANIC MATERIAL.
4		WATER TABLE EL. + 5.8'
8	5	
9	4	M. TO F. GRAVEL AND GRAY-BRN. C. TO F.
11	37	SAND, TRACE SILT; GRAVEL ROUNDED
80		
182		
270/8"		REFUSAL ON ROCK
		BOTTOM OF HOLE EL. -2.9'

REMARKS:
THIS HOLE WAS STOPPED ON BASIS OF RESISTANCE SHOWN AT DEPTH 9'-8"

PIER 5W NORTH

HOLE 26-HR
EQUIPMENT TYPE I

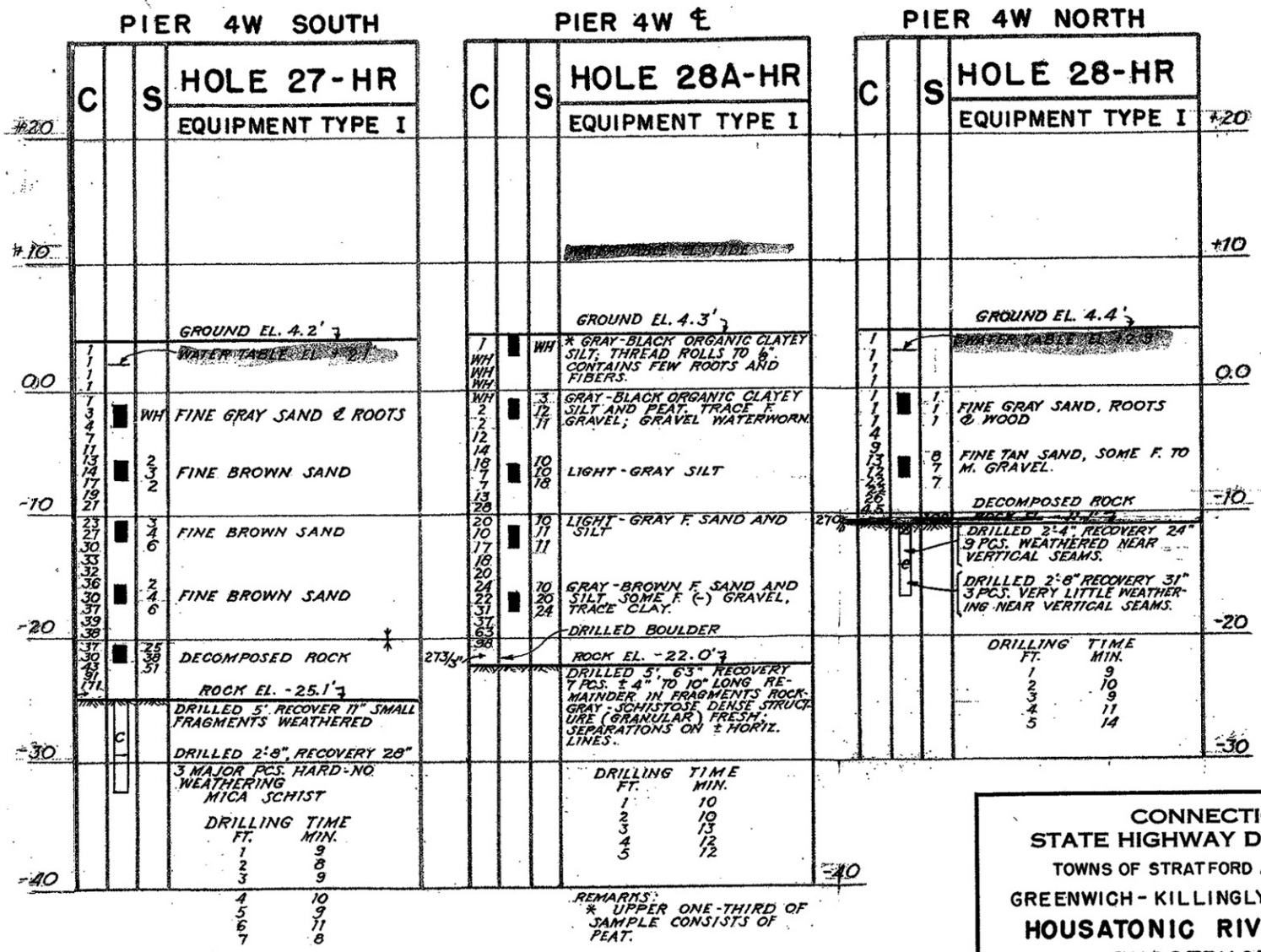
GROUND EL. 6.6'

C	S	
5		
7		
6		WATER TABLE EL. +2.0'
4	4	
3	1	FINE GRAY BROWN SAND
21	3	
33		
45		
91		
97	35	
15	26	F. TO M. GRAY BROWN SAND
21	27	
33		
87	26	
154	38	DECOMPOSED ROCK
197	36	
263	76	
250/4"		ROCK EL. -10.7'
		DRILLED 2'-5"
		RECOVERY 20"
		DRILLED 2'-7", RECOVERY 30"
		MICA SCHIST

DRILLING TIME

FT.	MIN.
1	10
2	10
3	9
4	10
5	12

REMARKS:
CORING: 1ST RUN 20" RECOVERY OF WEATHERED FRAGMENTS.
2ND RUN 30" RECOVERY OF 3 PIECES, DENSE, NEARLY VERTICAL LAMINATIONS, ONE SHOWS SLIGHT WEATHERING.



REMARKS:
METAMORPHIC ROCK WITH NEARLY VERTICAL LAMINATIONS AND THIN VERTICAL QUARTZITE SEAMS.

LEGEND
C = Casing blows per foot
S = Sample blows per 6"

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF STRATFORD AND MILFORD
GREENWICH - KILLINGLY EXPRESSWAY
HOUSATONIC RIVER BRIDGE
SUBSTRUCTURE
BORINGS
PIERS 11W-4W

DESIGNED BY PARSONS, BRINCKERHOFF, HALL & MACDONALD
SCALES
MADE BY R.E.L. DATE 12-21-54
CHECKED BY J.E.G. DATE 1-3-55
APPROVED M.E.F. DATE 2-14-55
PROJECT NO. 313-01
BRIDGE SHEET NO. 5 OF 20

PIER 3W SOUTH

HOLE 29-HR
EQUIPMENT TYPE I

+10.0
WATER (M.S.L. EL. 0.0)
0.00
RIVER BOTTOM EL. = -1.0'
PRESS SILT, ORGANIC
-10.0
PRESS SILT, ORGANIC
PRESS ORGANIC SILT, SOME FINE GRAY SAND
-20.0
PRESS ORGANIC SILT
PRESS ORGANIC SILT & FINE SAND
-30.0
ROCK EL. = -31.6'
27 3/8"
DRILLED 2'-6", RECOVERY 26"
DRILLED 2'-0", RECOVERY 24"
DRILLED 1'-8", RECOVERY 19"
DRILLED 3'-10", RECOVERY 46"
-40.0
DRILLED 2'-0" RECOVERY 23"
TOTAL: DRILLED 12'-0"
RECOVERED 11'-6"
MICA SCHIST 14 PCS.
-50.0
DRILLING TIME PER FOOT

FT.	MIN.
1	10
2	16
3	21
4	25
5	25
6	20
7	13
8	17
9	17
10	18
11	15
12	15

-60.0
-70.0

PIER 3W NORTH

HOLE 30-HR
EQUIPMENT TYPE I

RIVER BOTTOM EL. = +0.7'
WH ORGANIC SILT, SOME PEAT
WH ORGANIC SILT
WH ORGANIC SILT
WH ORGANIC SILT
WH ORGANIC SILT
10 C. TO F. GRAY SAND
8 SOME FINE GRAVEL
8
120 35'-35'-2" C. TO F. GRAY SAND, SOME FINE GRAVEL
33'-2"-36'-2" DRILLED 12" RECOVERY.
20 F. TO M. GRAVEL
31 SOME FINE SAND
41 F. TO M. GRAY GRAVEL, SOME C. TO F. SAND.
63
101
21 5/8"
ROCK EL. = -46.1'
DRILLED 5', 39" RECOVERY
DRILLED 5'; 30" RECOVERY
DRILLED 3'; 10" RECOVERY.
MICA SCHIST, VERTICAL SEAMS
TOTAL DRILLED 13'; RECOVERY 19"
TIME PER FOOT
1 - 13 MIN. 8 - 14 MIN.
2 - 9 " 9 - 12 "
3 - 15 " 10 - 13 "
4 - 13 " 11 - 11 "
5 - 14 " 12 - 10 "
6 - 12 " 13 - 11 "
7 - 13 "

PIER 2W SOUTH

HOLE 31-HR
EQUIPMENT TYPE I

+10.0
0.00
WATER (M.S.L. EL. 0.0)
-10.0
-20.0
RIVER BOTTOM EL. = -21'
ORGANIC SILT
ORGANIC SILT
FINE GRAY SAND
-30.0
-40.0
BROWN FINE SAND AND M. TO F. GRAVEL
BROWN F. TO M. GRAVEL, SOME FINE SAND.
-50.0
BROWN FINE SAND, SOME F. TO M. GRAVEL
BROWN F. TO M. GRAVEL, SOME F. TO M. SAND
-60.0
BROWN FINE SAND
BROWN F. TO M. GRAVEL, SOME F. TO M. SAND
-70.0
BROWN F. TO M. GRAVEL SOME F. TO M. SAND
BROWN F. TO M. GRAVEL SOME F. TO M. SAND
-80.0
BROWN F. TO M. GRAVEL SOME F. TO M. SAND.
FINE BROWN SAND
-90.0
FINE BROWN SAND
FINE BROWN SAND
-100.0
NO SAMPLE (ROCK EL. -101.4')
200 1/4"
DRILLED 5' RECOVERED 12" MICA SCHIST
DRILLED 1'-6" RECOVERED 18" MICA SCHIST
-110.0

PIER 2W NORTH

HOLE 32-HR
EQUIPMENT TYPE I

WATER (M.S.L. EL. 0.0)
RIVER BOTTOM EL. = -23'
FINE GRAY SAND, TRACE SILT
FINE GRAY SAND, TRACE SILT
BROWN F. TO M. GRAVEL SOME M. TO C. SAND
FINE GRAY SAND, TRACE SILT
GRAY BROWN F. TO M. GRAVE SOME COARSE SAND
FINE BROWN SAND, TRACE SILT
FINE BROWN SAND TRACE SILT
VERY FINE BROWN SAND & SILT
FINE BROWN SAND & SILT
FINE BROWN SAND & SILT
250 1/4"
NO RECOVERY
ROCK EL. = -80.3'
DRILLED 5' RECOVERY 1'-7" MICA SCHIST
DRILLED 3', RECOVERY 1'-11" MICA SCHIST

LEGEND
C. = Casing blows per foot
S. = Sample blows per 6"

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF STRATFORD AND MILFORD
GREENWICH - KILLINGLY EXPRESSWAY
HOUSATONIC RIVER BRIDGE
SUBSTRUCTURE

BORINGS
PIERS 3W - 3E

DESIGNED BY PARSONS, BRINCKERHOFF, HALL & MACDONALD
SCALES
MADE BY R.E.L. DATE 1-17-55
CHECKED BY J.E.G. DATE 2-10-55
APPROVED M.E.F. DATE 2-14-55
PROJECT NO. 313-01
BRIDGE SHEET NO. 6 OF 20

PIER IW SOUTH

HOLE 33-HR

EQUIPMENT TYPE I

WATER (M.S.L. = EL. 0.0)

RIVER BOTTOM EL. = -20'

F. TO M. GRAY SAND

F. TO M. GRAY SAND

F. TO M. GRAY SAND

F. TO M. GRAY SAND

C. TO F. GRAY SAND

C. TO F. GRAY SAND

F. TO M. GRAY GRAVEL, SOME C. TO F. SAND.

GRAY C. TO F. SAND

TRACE F. TO M. GRAVEL

GRAY C. TO F. SAND, SOME FINE GRAVEL.

F. TO M. BROWN SAND

ROCK EL. = -73.8'

DRILLED 5' RECOVERY 52" MICA SCHIST

TIME PER FT.

1	15 MIN.
2	18
3	20
4	24
5	26

PIER IW NORTH

HOLE 34-HR

EQUIPMENT TYPE I

WATER (M.S.L. = EL. 0.0)

RIVER BOTTOM EL. = -21'

F. TO M. GRAY SAND

F. TO M. GRAY SAND

F. TO M. GRAY SAND

FINE GRAY SAND, SOME SILT

FINE GRAY SAND & SILT

F. TO M. GRAVEL, SOME F. TO M. SAND.

F. TO M. GRAVEL, SOME F. TO M. SAND

BROWN F. TO C. SAND, SOME F. GRAVEL

BROWN F. TO C. SAND, SOME F. GRAVEL

BROWN FINE SAND, SOME FINE GRAVEL.

BROWN F. TO M. GRAVEL, SOME FINE SAND

BROWN F. TO M. GRAVEL, SOME FINE SAND

BROWN F. TO M. GRAVEL, SOME FINE SAND

BROWN F. TO M. GRAVEL, SOME FINE SAND

DRILLED 3" BOULDER, 94' TO 91'-6"

FINE BROWN SAND SOME F. TO M. GRAVEL

GRAY F. TO M. GRAVEL, SOME FINE SAND

DRILLED 3" BOULD..., 104' TO 108'

GRAY F. TO M. GRAVEL, SOME FINE SAND

GRAY F. TO M. SAND, TRACE FINE GRAVEL.

ROCK EL. = -115.0'

DRILLED 5' RECOVERY 35" MICA SCHIST

DRILLING TIME:

1'	15 MIN.
2'	18 "
3'	17 "
4'	20 "
5'	19 "

PIER IE SOUTH

HOLE 35-HR

EQUIPMENT TYPE I

WATER (M.S.L. = EL. 0.0)

RIVER BOTTOM EL. = -12'

F. TO M. GRAY SAND

F. TO M. GRAY SAND

F. TO M. GRAY SAND

F. TO M. GRAY SAND

FINE GRAY SAND

FINE GRAY SAND

F. TO C. GRAY SAND, SHELLS

F. TO C. GRAY SAND

F. TO C. GRAY SAND, SHELLS

F. TO C. GRAY SAND

F. TO M. GRAVEL SOME M. TO C. SAND

F. TO M. GRAVEL, SOME M. TO F. SAND

F. TO M. GRAY SAND

CHOPPED & WASHED

ROCK EL. = -83.8'

DRILLED 4'-1" RECOVERY 1'-4" MICA SCHIST

TIME: 1-10 MIN. 2-6 3-8 4-17

DRILLED 3' RECOVERY 1'-6" MICA SCHIST

TIME: 1-20 MIN. 2, 9 MIN. 3, 12 MIN.

PIER IE NORTH

HOLE 36-HR

EQUIPMENT TYPE I

WATER (M.S.L. = EL. 0.0)

RIVER BOTTOM EL. = -14'

FINE TO MEDIUM SAND, TRACE GRAVEL

FINE TO MED. GRAY SAND

FINE TO MED. GRAY SAND

TRACE OF SILT

FINE TO MED. GRAY SAND

TRACE OF SILT

FINE TO MED. GRAY SAND

FINE TO MED. GRAY SAND

MED GRAY SAND

MED. TO COARSE GRAY SAND

MED. TO COARSE GRAY SAND

FINE TO COARSE GRAY SAND

MED. GRAVEL

DRILLED BOULDERS

COARSE GRAY SAND

FINE GRAY GRAVEL

FINE GRAY BROWN SAND TRACE FINE GRAVEL

ROCK EL. = -84.8'

DRILLED 5' RECOVERY, 42" MICA SCHIST

DRILLING TIME PER FT.

1 - 3 MIN.	4 - 13 MIN.
2 - 20 "	5 - 13 "
3 - 11 "	

REVISIONS		
NO.	DATE	DESCRIPTION

LEGEND

C. = Casing blows per foot

S. = Sample blows per 6"

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF STRATFORD AND MILFORD
GREENWICH - KILLINGLY EXPRESSWAY
HOUSATONIC RIVER BRIDGE
SUBSTRUCTURE

BORINGS
PIERS 3W - 3E

DESIGNED BY PARSONS, BRINCKERHOFF, HALL & MACDONALD

SCALES

MADE BY R.E.L. DATE 1-17-55

CHECKED BY J.E.G. DATE 2-10-55

APPROVED M.E.F. DATE 2-14-55

PROJECT NO. 313-01

BRIDGE SHEET NO. 6 OF 20

PIER 2E SOUTH

HOLE 37-HR

EQUIPMENT TYPE I

+10.0

0.00 — WATER (M.S.L. = EL 0.0)

RIVER BOTTOM EL. = -6.5'

MUD

-10.0

FINE TO MEDIUM GRAY SAND, SOME PIECES OF WOOD

FINE TO MEDIUM GRAY SAND

-20.0

FINE TO MEDIUM GRAY SAND, SOME PIECES OF WOOD

FINE TO MEDIUM GRAY SAND

-30.0

FINE TO MEDIUM GRAY SAND

FINE TO MEDIUM GRAY SAND

FINE TO MEDIUM GRAY SAND

FINE TO MEDIUM GRAY SAND (SECOND TRY CAUGHT ABOVE SPOON IN RODS, SAND RAN UP IN CASING 3'-4" AFTER RAISING RODS 2'-6" & HOLDING 5 MINUTES.

-50.0

FINE TO MEDIUM GRAY SAND.

FINE TO MEDIUM GRAY SAND. SOME COARSE SAND.

-60.0

FINE TO MEDIUM QUARTZ SAND

BOULDER FRAGMENTS COARSE GRAVEL, TRACE GRAY SAND

-70.0

FINE TO MEDIUM GRAVEL, SOME FINE GRAY BROWN SAND.

FINE TO MEDIUM GRAVEL, SOME FINE GRAY BROWN QUARTZ SAND, (MICA)

-80.0

FINE GRAY BROWN SAND, SOME FINE TO MEDIUM GRAVEL, (MICA)

ROCK EL. = -84.0'

DRILLED 8' RECOVERY 1'-2" MICA SCHIST SEAMS ALMOST VERTICAL

DRILLED 2' RECOVERY 0'-5" MICA SCHIST SEAMS ALMOST VERTICAL.

DRILLED 2' RECOVERY 0'-10" MICA SCHIST SEAMS ALMOST VERTICAL

-90.0

DRILLED 1' RECOVERY 0'-11" MICA QUARTZ, SCHIST

CORE SHOWS VERY LITTLE WEATHERING BUT WAS BROKEN UPON REMOVAL FROM SAMPLER.

SAMPLE #12 65' TO 66.2'
2" 30 BLOWS 140#/30" 6" 50 BLOWS
300#/24" 6" 30 BLOWS 300#/24"

-100.0

200 1/4

PIER 2E NORTH

HOLE 38-HR

EQUIPMENT TYPE I

WATER (M.S.L. = EL 0.0)

RIVER BOTTOM EL. = -7.0'

-10.0

FINE GRAY SAND

FINE TO MEDIUM GRAY SAND

-20.0

FINE GRAY SAND

FINE GRAY SAND
TRACE OF SILT

-30.0

FINE TO MEDIUM GRAY SAND

FINE TO MEDIUM GRAY SAND

F. TO M. GRAY SAND

FINE GRAY SAND

-50.0

FINE GRAY SAND

F. TO M. GRAY SAND

-60.0

F. TO M. GRAY SAND

F. TO M. GRAY SAND (MICA)
TR. OF SILT, F. TO M. GRAVEL

-70.0

F. TO M. GRAVEL
SOME SAND

MED. TO COARSE SAND
SOME MED. GRAVEL
(BOULDER FRAGMENTS)

-80.0

MED. TO COARSE GRAVEL
SOME COARSE SAND

ROCK EL. = -83.5'

250 1/2" 6"

DRILLED 2' RECOVERY 14"
MICA SCHIST

DRILLED 3' RECOVERY 23"
MICA SCHIST

-90.0

PIER 3E SOUTH

HOLE 39-HR

EQUIPMENT TYPE I

+10.0

0.00 — WATER (M.S.L. = 0.0)

RIVER BOTTOM EL. = -7.0'

-10.0

FINE GRAY SAND

FINE GRAY SAND

-20.0

FINE GRAY SAND

FINE GRAY SAND

-30.0

FINE GRAY SAND

FINE GRAY SAND, TRACE SILT

-40.0

FINE TO MEDIUM GRAY SAND

FINE TO MEDIUM GRAY BROWN SAND

-50.0

FINE TO MEDIUM GRAY BROWN SAND.

ROCK EL. = -56.2'

87 1/2"

DRILLED 3' RECOVERY 16"
MICA SCHIST CORE

-60.0

DRILLED 5' RECOVERY 27"
MICA SCHIST CORE

DRILLED 4' RECOVERY 38"
MICA QUARTZ SCHIST

-70.0

CORE SHOWED VERY LITTLE WEATHERING AND WAS BROKEN UP DURING DRILLING & REMOVAL FROM SAMPLER

PIER 3E NORTH

HOLE 40-HR

EQUIPMENT TYPE I

WATER (M.S.L. = 0.0)

RIVER BOTTOM EL. = -8.0'

FINE GRAY SAND

FINE GRAY SAND

FINE GRAY SAND
TRACE SILT

FINE GRAY & BROWN SAND, TRACE SILT.

FINE GRAY & BROWN SAND

FINE GRAY & BROWN SAND

FINE TO MEDIUM BROWN SAND

MEDIUM GRAY SAND

133 1/2"

SMALL PIECES OF ROCK
ROCK EL. = -59.2'

DRILLED 3', RECOVERY 36"
MICA SCHIST CORE
DRILLED 2' RECOVERY 21"
MICA QUARTZ SCHIST
DRILLING TIME PER FT.
1'-1'-20" 4'-4'-11"
2'-2'-11" 5'-5'-11"
3'-3'-13"

LEGEND

C. = Casing blows per foot
S. = Sample blows per 6"

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWNS OF STRATFORD AND MILFORD
GREENWICH - KILLINGLY EXPRESSWAY
HOUSATONIC RIVER BRIDGE
SUBSTRUCTURE

BORINGS
PIERS 3W - 3E

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY PARSONS, BRINCKERHOFF, HALL & MACDONALD

SCALES

MADE BY R.E.L. DATE 1-17-55

CHECKED BY J.E.G. DATE 2-10-55

APPROVED M.E.F. DATE 2-14-55

PROJECT NO. 313-01

BRIDGE SHEET NO. 6 OF 20

Elevation scale: El.+10, El.+5, El.0, El.-5, El.-10, El.-15, El.-20, El.-25, El.-30, El.-35, El.-40, El.-45, El.-50, El.-55, El.-60, El.-65, El.-70, El.-75, El.-80, El.-85

1-L

Gr.El.+5.6' — W.T. at 0

C (blows per foot, from top): 3, 2, W.H, W.H, W.H, W.H, 1, 3, 4, 7, 2, 4, 2, 2, 6, 8, 18, 17, 17, 18, 15, 36, 51, 76, 93, 76, 91, 82, 61, 54, 42, 48, 61, 88, 91, 63, 51, 48, 50, 52, 64, 80, 102, 106, 121, 80, 84, 88, 92, 104, 67, 110, 124, 148, 202, 76, 88, 95, 111, 119, 86, 91, 87, 94, 107, 83, 94, 96, 107, 114, 92, 98, 118, 121, 123, 83, 91, 102, 223 — bottom 78.8'

D	S	Classification
0		topsoil & fill, broken asbestos sheet-factory waste
5	W.H.	dark-brn. humus & f. sand mixed with roots & leached factory waste.
10	1, 2	yellow-gray c.(+) to m. SAND, little f.(-) ang. gravel; trace clayey silt.
15	2, 3, 2	yell-brn. c.(+) to m. SAND, some f. gravel, trace clayey silt.
20	6, 4, 12	yell-brn. c.(+) to m. SAND, some m. to f. gravel, tr.(-) silt; gravel angular.
25	11, 21, 26	tan. c. SILT, little sand, trace clay; slight plasticity; with trace (-) ang. gravel to 1"φ
30	9, 11, 10	yell.-brn. c(+) to m. SAND, little f. gravel trace (+) silty clay.
35	8, 10, 11	light-brn. f. SAND trace (-) silt.
40	9, 11, 14	brn. f. SAND, trace (-) silt.
45	10, 12, 17	tan m. to f. SAND, some f.(-) gravel; gravel angular.
50	9, 14, 23	tan c(+) to m. SAND & f.(-) gravel, trace (-) silt, gravel angular.
55	17, 21, 33	dark-brn. f. SAND, some silt, little (+) f. gravel, slight plasticity
60	18, 24, 31	gray-brn. m. to f. SAND, some m. to f. gravel. gravel angular, with flat (shale) pcs. to 1"φ
65	9, 12, 14	brn. f.(-) SAND, some silt, little m. to f. ang. gravel.
70	10, 10, 12	brn. f. SAND, trace silt.
75	8, 10, 12	brn. f.(+) SAND, trace (+) silt.

Rock El. = -73.2

NOTE: This hole is in marginal area of (flowing) brook bed.

2-L

Gr.El.+5.9' — W.T. at 0

C (blows per foot, from top): 10, 24, 38, 45, 4, 4, 3, 3, 4, 3, 10, 21, 24, 22, 19, 16, 18, 19, 22, 24, 19, 18, 21, 23, 23, 21, 24, 27, 29, 33, 21, 23, 26, 31, 37, 32, 30, 34, 34, 39, 38, 34, 35, 37, 37, 30, 36, 75, 112, 81, 57, 48, 36, 35, 31, 30, 34, 45, 37, 34, 33, 54, 180, 157, 213, 110, 147, 178, 215, 293, 298, 315, 350, 320, 328, 182, 171, 240, 253, 160 — rock at 74.2'; core C 8m, 8m, 7m — bottom 82.2'

D	S	Classification
0	4, 5, 7	miscellaneous fill-rubbish.
5	W.H.	dk. brn. PEAT, soft saturated
	W.H.	dk. brn. PEAT, soft saturated
	W.H.	dk. brn. PEAT, soft saturated
10	1, 0, 14	brn. c. to m. SAND, little f. gravel, trace clayey silt, few roots
15	9, 8, 8	tan c.(-) to m. SAND uniform grad.
20	5, 6, 7	tan c.(-) to f. SAND uniform grad.
25	9, 9, 10	tan c.(+) to m. SAND, little f.(-) gravel
30	7, 8, 9	light-gray f. GRAVEL & c. to m. Sand
35	8, 8, 10	tan c. to f. SAND, some f.(-) gravel
40	18, 40, 12	yell.-brn. c. to f. SAND, some f.(-) gravel, trace clayey silt, gravel waterworn, with decomp. parts of high mica content.
45	20, 17, 26	brn. m. to f. SAND, trace f. gravel.
50	40, 29, 10	c. to f. GRAVEL, some m. to f. sand, trace clayey silt; gravel ang. with decayed mica schist parts.
55	4, 8, 10	tan m. to f. SAND
60	3, 6, 11	tan f. SAND
65	23, 39, 61	gray-brn. c. to f.(-) SAND, little f. gravel trace silt.
		gray-brn. f. SAND & clayey silt, little f. gravel.
70	60, 87, 98	gravel consists largely of decomposed schist frags. of high mica content.
75	27, 41, 47	f.(-) GRAVEL & c. sand some clayey silt; gravel-schistose fragments with decomp. pts.
80	C: 8m., 8m., 7m.	rock: gray mica schist, fresh, flaked struct., separating on ±45° cleavage lines in places core recovery 34", in 10± pieces.

El. = -73.3

NOTE: This boring was made thru marginal area of flowg stm., reloc. posit.

3-L

Gr.El.+5.0' — W.T. at 0

C (blows per foot, from top): 2, 3, 1, W.H, W.H, 1, W.H., W.H, 1, 2, W.H., W.H, 3, 2, 3, 3, 8, 6, 9, 11, 14, 26, 40, 43, 47, 16, 29, 37, 31, 33, 21, 30, 36, 32, 28, 17, 36, 41, 33, 39, 26, 39, 49, 36, 40, 26, 28, 32, 32, 36, 26, 38, 59, 52, 59, 32, 90, 110, 91, 98, 66, 54, 61, 67, 76, 76, 51, 54, 208 — bottom 68.6'

D	S	Classification
0	0	Surface sample, humus and fill-asbestos factory waste
5	W.H.	humus & roots; partly decayed vegetable matter.
10	W.H.	Peat and humus, mixed with roots. (Piston Sample)
15	W.H.	dk. brn. PEAT, soft & loose
20	11, 21, 23	light-gray c.(+) SAND & m. to f. GRAVEL, some silty clay, med. plasticity; gravel ang. flakes
25	18, 12, 13	gray-brn. c. to m. SAND, little gravel, trace (-) silt; gravel ang.
30	9, 10, 9	orange-brown c(+) to m. SAND, little f.(-) gravel, tr. silt; gravel sub-angular.
35	6, 9, 13	orange-brown c. to m. SAND
40	14, 11, 21	orange-brown m.(+) to f. SAND, trace silt.
45	8, 10, 11	gray-brown c.(+) to m. SAND & f.(-) GRAVEL gravel waterworn.
50	12, 18, 23	gray-brn. f. GRAVEL some c.(+) to m. sand gravel sub-angular and waterworn.
55	12, 14, 18	gray-brn. c.(+) to f. SAND, little f. gravel, gravel waterworn, trace (-) silt.
60	10, 12, 15	brn. c.(+) to f.(+) SAND, some f.(-) gravel; gravel waterworn & sub-ang.; trace (+) silt.
65	12, 18, 21	brown c. to f.(+) SAND trace f. gravel.

Rock El. = -63.5

NOTE: This hole was drilled in marginal area of brook bed-flowing.

4-L

Gr.El.+6.2' — W.T.

C (blows per foot, from top): 17, 23, 37, 15, 17, 6, 4, 1, 4, 5, 3, 2, 3, 4, 4, 5, 8, 37, 40, 46, 14, 15, 17, 15, 32, 40, 52, 46, 42, 36, 30, 58, 73, 59, 53, 28, 40, 50, 53, 55, 28, 36, 60, 62, 48, 27, 39, 47, 53, 63, 40, 47, 51, 59, 60, 36, 52, 81, 53, 44, 33, 42, 61, 110, 112, 80, 160, 56, 69, 61, 55, 58, 65, 69, 76, 212 — rock at 75.8'; core C 6m, 5m, 5m, 11m, 14m — bottom 80.8'

D	S	Classification
0	0	fill-asbestos fragments from factory dump.
5	7, 4, 3	fill-asbestos pulverized waste from factory dump.
10	W.H.	sample-(PEAT) was lost, very wet & loose, hole in brook bed.
15	W.H.	dark-brn. very wet loose PEAT-organic, with high percentage of vegetable fibers.
20	7, 9, 10	blue-gray c. to f. SAND some clayey silt, little f. gravel.
25	14, 18, 21	blue-gray c(+) to m. SAND & GRAVEL, some (-) silt.
30	11, 24, 22	blue-gray c(+) to m. SAND, some f.(+) gravel; trace (-) silt.
35	7, 9, 11	yellow-brown c(+) SAND & f. gravel, little (-) silt.
40	9, 12, 11	yellow-brown c.(+) to f. SAND, & some f. gravel.
45	10, 10, 12	brn. c.(+) to m. SAND & f. gravel.
50	7, 8, 8	orange-brn. c(+) to f. SAND & m. to f. gravel
55	8, 9, 11	orange-brn. c(+) to f. SAND, & m.(-) to f. gravel.
60	9, 9, 11	orange-brn. c(+) to f. SAND, some f.(-) gravel trace silt.
65	12, 18, 22	gray-brn. c(+) to f. SAND & c.(-) to f. GRAVEL, some (-) silt & mica flour
70	9, 12, 14	tan f. SAND, trace silt.
75	15, 23	tan f.(-) SAND, some (+) silt.
	C: 6m, 5m, 5m, 11m, 14m	rock-mica schist. core recovery 39", in 26 pcs.

Rock El. = -69.5

NOTE: This hole was drilled in marginal area of brook bed-still flowing.

BORING	STATION	OFFSET	DATE COMPLETED
1-L	146+75	65'L	12-21-54
2-L	149+30	65'L	1-18-55
3-L	147+79	45'L	12-17-54
4-L	148+46	65'L	12-15-54
5-L	147+07	75'R	12-14-54
6-L	146+78	50'R	12-10-54
7-L	146+08	48'R	12-15-54
8-L	145+55	60'R	12-10-54
9-L	147+28	℄	1-27-55
10-L	147+96	℄	1-27-55
11-L	147+57	51'R	1-26-55
12-L	147+95	65'R	1-28,-1-29-55

LEGEND

D Depth of Stratum.

C Blows per foot on 2½"φ casing with 300 lb hammer falling 2'-0".

S Blows per 6" on 1⅜"φ split spoon sampler with 140 lb hammer falling 2'-6".

WH Wt. of hammer

■ Dry sample

[C] 5m. 10m. Cored sample with drilling time in minutes per foot.

▽ W.T. Water Table

NOTE:
(+) sign indicates that the material is of coarser grain than noted.
(-) sign indicates that the material is of finer grain than noted.

CONNECTICUT
STATE HIGHWAY DEPARTMENT

TOWN OF STRATFORD
GREENWICH—KILLINGLY EXPWY. OVER RELOCATED LONGBROOK AVENUE
BORINGS

DESIGNED BY PARSONS, BRINCKERHOFF, HALL & MACDONALD

SCALES VERT 1" = 5'-0"

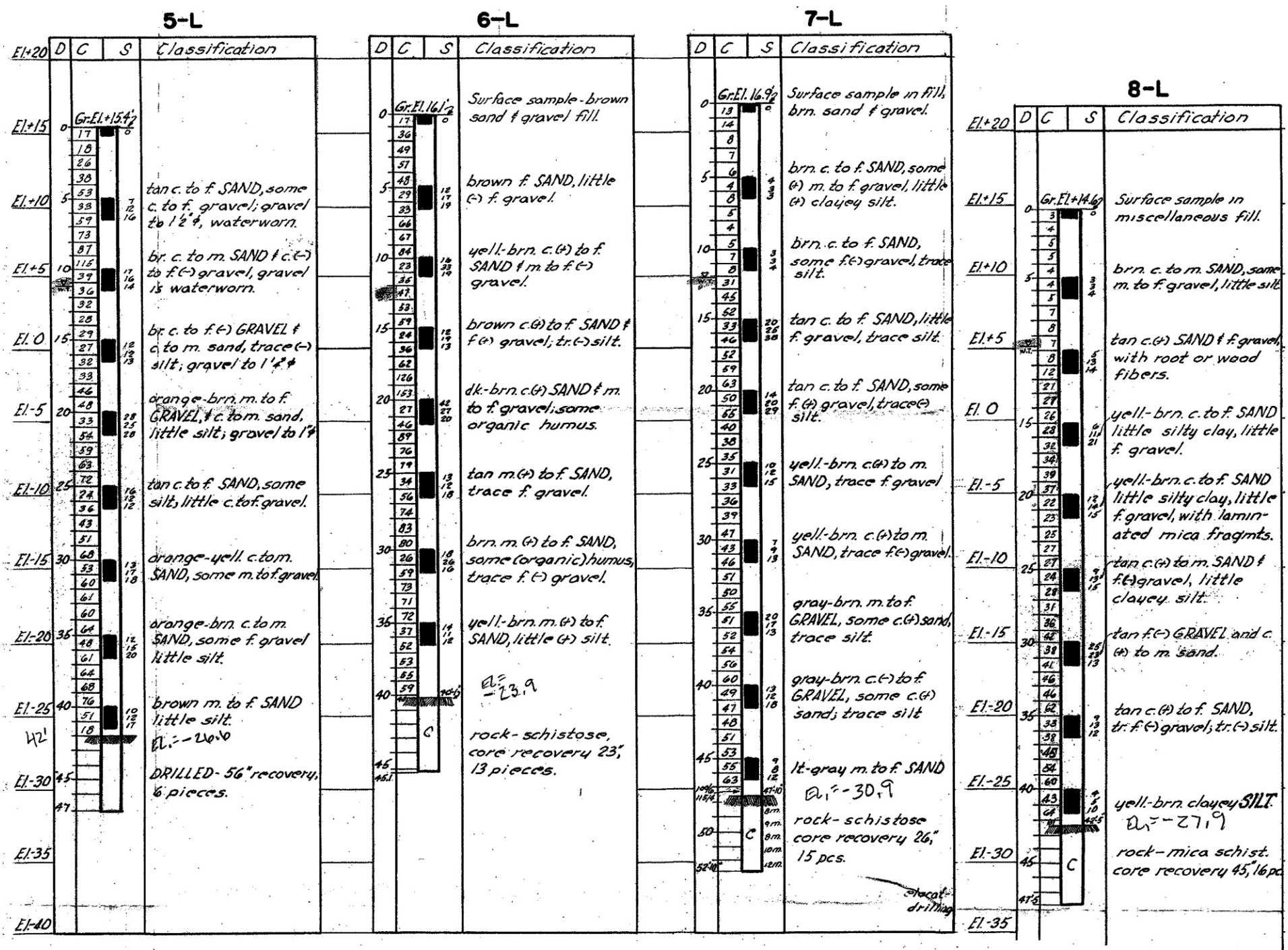
MADE BY R.V. DATE 2-4-55

CHECKED BY E.N.C. DATE 4-4-55

APPROVED M.E.F. DATE 4-8-55

PROJECT NO. 313-03

BRIDGE SHEET NO. 9 OF 9



LEGEND

D Depth of Stratum.

C Blows per foot on 2½" ϕ casing with 300lb hammer falling 2'-0".

S Blows per 6" on 1⅜" ϕ split spoon sampler with 140lb hammer falling 2'-6".

WH Wt. of hammer

Dry sample

C 5m. 10m. Cored sample with drilling time in minutes per foot.

W.T. Water Table

NOTE:
(+) sign indicates that the material is of coarser grain than noted.
(-) sign indicates that the material is of finer grain than noted.

BORING	STATION	OFFSET	DATE COMPLETED
1-L	146+75	65'L	12-21-54
2-L	149+30	65'L	1-18-55
3-L	147+79	45'L	12-17-54
4-L	148+46	65'L	12-15-54
5-L	147+07	75'R	12-14-54
6-L	146+78	50'R	12-10-54
7-L	146+08	48'R	12-15-54
8-L	145+55	60'R	12-10-54
9-L	147+28	℄	1-27-55
10-L	147+96	℄	1-27-55
11-L	147+57	51'R	1-26-55
12-L	147+95	65'R	1-28;-1-29-55

CONNECTICUT
STATE HIGHWAY DEPARTMENT

TOWN OF STRATFORD
GREENWICH—KILLINGLY EXPWY.
OVER
RELOCATED LONGBROOK AVENUE
BORINGS

DESIGNED BY PARSONS, BRINCKERHOFF, HALL & MACDONALD

SCALES VERT 1"=5'-0"

MADE BY R.Y. DATE 2-4-55

CHECKED BY E.N.C. DATE 4-4-55

APPROVED M.E.F. DATE 4-8-55

PROJECT NO. 313-03

BRIDGE SHEET NO. 9 OF 9

9-L

El.	D	C	S	Classification
El.+20				
El.+15		Gr. El. +14.7		
	0	56		
		17	4	gray-brown c. to f. SAND
		9	7	and m. to f. gravel.
		7		
El.+10		7		
	5	5	3	gray-brown c. to f.
		8	3	SAND & m. to f. gravel;
		7		gravel rounded.
El.+5		7		red-brn. c. to f. SAND
		11		& c. to f. gravel, tr.
	10	9	3	silt, gravel ang.;
		13	4	sand has pronounced
		15		mineral pigmentation in parts.
El. 0		17		
	15	20	9	
		17	8	yell.-brn. m. to f.
		22	9	SAND, & m. to f. (-)
		24		gravel, tr. silt,
		27		gravel sizes not
El.-5		32		uniform.
	20	18	9	
		22	10	c. to f. SAND & f. grav.,
		93		trace silt, gravel
		64		sizes unif. grad.
El.-10		40		
	25	28	12	light-gray f. SAND &
		28	15	silt, trace f. gravel;
		30	16	silt has high mica
		31		content.
El.-15		30		
	30	27	8	light-gray c. SILT, with
		29	9	high mica content.
		33		
		31		
El.-20		30		
	35	30	7	tan c. to f. SAND, little
		38	12	f. (-) gravel, trace silt.
		50		
		56		
El.-25		61		
	40	46	8	tan m. to f. SAND,
		49	12	trace f. gravel.
		54		
		68		
El.-30		117		m. to f. (-) GRAVEL & dk.-
	45	96	34	brn. c. to f. sand, little
		92	42	silt, gravel waterworn;
		81		silt is micaceous &
		70		contains decayed
El.-35		66		rock parts.
	50	95	8	
		92	15m	dk.-brn. c. to f. SAND
		90	11	& m. to f. gravel; trace
		87		silt; gravel water-
El.-40		82		worn; silt has high
	55	92	9	mica content & some
		88	14	organic material.
		86		brn. m. to f. SAND,
		82		trace (-) f. gravel.
El.-45		78		
	60	68	6	tan c. to f. SAND.
	62	230	13	El. = -47.3
				rock: schistose-part
El.-50		C		mica flake structure,
	65			part dense granular;
	67			no weathering.
				core recovery 58", 1 pc.
El.-55				23" long.
				NOTE:
El.-60				Sand run-back in
				boring to height ±5'
				above rock surface,
				occurred in this hole.
El.-65				

10-L

El.	D	C	S	Classification
El.+15		Gr. El. +11.4		
	0	3		*No samples See Note.
El.+10		4		
		3		
		5		
	5	7		
		6	2	c. to f. GRAVEL & gray-brn.
El.+5		4	2	c. to f. sand, some org-
		9	2	anic clayey silt; grav-
		17		el rounded & of random
		22		sizes.
El. 0		14	30	c. to f. GRAVEL & gray-brn.
		23	36	c. to f. sand, tr. silt, grav-
		52	37	el rounded, contains
		67		decomposed parts.
	15	63		
El.-5		47	30	c. to f. GRAVEL & c. to f.
		39	13+	(-) sand; gravel sub-
		41	12	angular, & of random
		46		sizes.
	20	44		
El.-10		31	26	yell.-brn. c. to f. SAND,
		39	28+	& m. to f. (-) gravel, tr.
		52	19	silt; gravel water-
		57		worn.
El.-15		61		orange-yell. c. to f.
	25	59	12	SAND, little f. gravel,
		67	8	tr. silt; gravel water-
		58	6	worn.
		57		
		59		
El.-20		47	22	orange-brn. c. to f.
	30	52	12	SAND, trace silt.
		48	14	
		49		
El.-25		51		brown c. to f. SAND,
	36	54	14	little f. gravel, tr. silt.
		83	10	
		92	10	
		55		
El.-30		56		lt-gray c. to f. SAND
	40	52	3	& m. to f. (-) gravel;
		57	7	gravel rounded &
		59	10	waterworn.
		62		
El.-35		67		lt-gray f. SAND & silt,
	46	63	5	trace f. gravel; gravel
		72	9	sub-angular.
		76	8	
		82		
El.-40		94		lt-brn. f. SAND, little silt,
	50	106	11	trace f. gravel; gravel
		179	7	sub-angular, & of
		225	12	random sizes.
		320		Match Line
	55		11m.	
El.-45		C	14m.	rock: mica
			17m.	schist, dense,
			15m.	fresh, separating
	58½		19m.	on ±45° cleavage
El.-50				lines.
				recovery 47", 10 pcs.
				4½" to C lg. rem. in 4 runs.

11-L

El.	D	C	S	Classification
		Gr. El. +14.9		
	0	82	14	m. to f. GRAVEL & tan c. (+)
		87	16	to m. sand; gravel is
		40	18	sub-angular schist.
		53		
		50		
	5	35	20	m. to f. GRAVEL & c. (+)
		48	26	to m. tan sand; gravel
		51	19	is sub-ang. schist &
		59		quartz.
		47		
	10	35	23	brn. c. (+) to m. SAND
		48	20	& m. to f. (-) gravel;
		33	17	gravel is sub-ang. &
		36		waterworn.
		51		
	15	37	12	brn. c. (+) to m. SAND &
		49	10	f. gravel; gravel flat
		58	12	& waterworn.
		66		
	20	64		c. to f. GRAVEL & c. to
		43	21	m. sand, trace silt,
		122	37	gravel angular.
		80	73	
		73		
	26	79		
		63	13	light-brown SILT
		96	12	
		103		
		75		
	30	58		
		48	9	orange-brown fine
		66	13	SAND, some silt.
		87	13	
		90		
	35	88		
		54	7	tan f. SAND, little
		62	10	silt, silt is mica-
		70	14	ceous-high.
		75		
	39½	200		El. = -24.9
			8m.	rock: gray schistose
			10m.	dense, fresh, parts
		C	10m.	separated on ±45°
			12m.	lines. Core recovery
			12m.	57", 5 pcs.

12-L

El.	D	C	S	Classification
	0	Gr. El. +14.2		
		62	9	f. to m. brown SAND;
		37	11	some f. gravel, tr. silt.
		52	9	
		30		
	5	33		
		25	4½	f. to m. brown SAND,
		30	4	some f. to m. gravel.
		32		
		35		
	10	33		
		27	9	c. to f. brown SAND,
		35	10	some f. to m. gravel.
		32		
		37		
	15	40		
		23	8	c. to m. brown SAND,
		28	7	some f. to m. gravel.
		39	9	
		69		
	20	75		
		92	27	Blk. & brown c. to f. SAND,
		220	32	some f. to m. gravel.
		260	61	
		310		
	25	73		
		52	10	fine brown SAND,
		78	11	some silt.
		65	12	
		72		
	30	63		
		52	12	fine brown SAND,
		72	13	trace silt.
		68	12	
		101		
	35	93		
		52	12	fine brown SAND
		78	15	
		109	17	
		125		
	40	99		
		52	12	fine brown SAND, some
		78	18	silt.
		101	22	
		62		
	45	88		
		72	9	f. to m. brown SAND,
		63	13	some f. to m. gravel.
		92	17	
		90		
	50	85		
		92	12	f. to m. brown SAND,
		126	14	trace fine gravel.
		135	16	
		150		
	55	265		Match Line
			18m.	
El.-45		C	17m.	Drilled 4'-6" Rec. 52"
			18m.	3 pcs. Mica schist,
	54½		19m.	clean breaks, no
			10m.	weathering,
El.-50				near vert. seams.

*NOTE:
This boring was made on steep slope, top 8' is probably fill.

CONNECTICUT
STATE HIGHWAY DEPARTMENT

TOWN OF STRATFORD
GREENWICH—KILLINGLY EXPWY.
OVER
RELOCATED LONGBROOK AVENUE
BORINGS

DESIGNED BY PARSONS, BRINCKERHOFF, HALL & MACDONALD

SCALES VERT 1"=5'-0"		PROJECT NO. 313-03
MADE BY R.V	DATE 2-4-55	
CHECKED BY E.N.C.	DATE 4-4-55	BRIDGE SHEET NO. 9 OF 9
APPROVED M.E.F.	DATE 4-8-55	

LEGEND

D Depth of Stratum.

C Blows per foot on 2½" ϕ casing with 300lb hammer falling 2'-0".

S Blows per 6" on 1⅜" ϕ split spoon sampler with 140lb hammer falling 2'-6".

WH Wt. of hammer

Dry sample

C 5m. / 10m. Cored sample with drilling time in minutes per foot.

W.T. Water Table

BORING	STATION	OFFSET	DATE COMPLETED
1-L	146+75	65'L	12-21-54
2-L	149+30	65'L	1-18-55
3-L	147+79	45'L	12-17-54
4-L	148+46	65'L	12-15-54
5-L	147+07	75'R	12-14-54
6-L	146+78	50'R	12-10-54
7-L	146+08	48'R	12-15-54
8-L	145+55	60'R	12-10-54
9-L	147+28	℄	1-27-55
10-L	147+96	℄	1-27-55
11-L	147+57	51'R	1-26-55
12-L	147+95	65'R	1-28;-1-29-55

NOTE:
(+) sign indicates that the material is of coarser grain than noted.
(-) sign indicates that the material is of finer grain than noted.

HOLE 1-M

GROUND EL. + 10.0'

C	S	
18	9	TOPSOIL & CINDER FILL
12	18	
6	7	
3		WATER LEVEL 3'-2" BELOW GR. EL.
5	1	BROWN COARSE TO FINE (QUARTZ)
3	1	SAND & ORGANIC CLAYEY
7	1	SILT, FEW ROOTS
7		
7		
8		
7	3	BROWN COARSE TO FINE SAND &
11	8	SILTY CLAY, TRACE MED. TO FINE
12	5	(WATERWORN) GRAVEL
12		CLAY OCCURS IN ± 2" LAYERS
13		
12	4	TAN COARSE TO FINE (-) SAND SOME
17	7	MED. TO FINE GRAVEL, LITTLE
18	6	CLAYEY SILT, GRAVEL ROUNDED;
18		SILT OCCURS IN LAYERS ± 1"
20		THICK.
16	15	TAN MEDIUM SAND; UNIFORM
25	20	GRAIN SIZE.
28	19	
29		ROCK EL. -15.0
300		ROCK: MICA SCHIST, DENSE STRUCTURE, FRESH; NO DEF- INITE CLEAVAGE LINES.

CORE RECOVERY: 29" IN 3 PIECES ± 9" LONG

DRILLING TIME

FROM	TO	MINS.
25'	26'	11
26'	27'	13
27'	28'	19
28'	29'	17

HOLE 2-M

GROUND EL. + 11.6'

C	S	
42	2	GRAY TOPSOIL & CLAY
12	3	
10	5	
12		WATER LEVEL 2'-6" BELOW GR. EL.
11		
7	3	BROWN & GRAY SAND & CLAY
9	3	
15	11	
18		
28		
30	8	COARSE BROWN & GRAY SAND
35	8	& GRAVEL
32	14	
42		
38		
37	11	COARSE BROWN & GRAY SAND
33	11	& GRAVEL
35	17	
62		ROCK EL. -7.9
150/6		SOFT SHATTERED ROCK: MICA SHIST

1ST RUN 19'-6" TO 22'-6" REC. 1'-8" ALL SHATTERED.

2ND RUN 22'-6" TO 24'-6" REC. 1'-7" SHATTERED

DRILLING TIME

FT	MINS.
1	10
2	12
3	14
4	17
5	15

BOTTOM 24'-6"
4 BOTTLE SAMPLES

HOLE 3-M

GROUND EL. + 10.4'

C	S	
32	4	GRAY SAND MEDIUM &
17	4	GRAVEL
12	7	
19		WATER LEVEL 2'-8" BELOW GR. EL.
22		
42	6	GRAY MEDIUM SAND, PIECES OF
62	6	ROCK MICA SCHIST
71	5	
60		
72		
14	7	COARSE TO FINE
19	7	BROWN SAND
32	11	
35		
37		
28	9	COARSE TO FINE BROWN
32	12	SAND SOME GRAVEL
37	17	
40		
76		
52	7	COARSE TO FINE BROWN
61	12	SAND & GRAVEL
72	14	
78		
63		
72	8	FINE BROWN, RED SAND & TRACE
71	11	OF GRAVEL & ROCK
281	17	FRAGMENTS
		ROCK EL. -16.6

ROCK AT 27'
MICA SCHIST
BOTTOM AT 32'

1ST RUN 27' TO 30' REC. 2'-9" 26 PIECES

2ND RUN 30' TO 32' REC. 2' 8 PIECES

DRILLING TIME

FT	MINS.
1	10
2	10
3	12
4	10
5	14

HOLE 4-M

GROUND EL. +10.8'

C	S	
6		
10		SHOT DRILLED THRU ASPHALT
9		AND CONCRETE PAVEMENT 12"
7		
6		
5	9	MEDIUM TO FINE BROWN SAND
8	8	SOME MICA
8	11	
7		WATER LEVEL 5'-2" BELOW GR. EL.
11		
12	10	
15	9	MEDIUM TO FINE BROWN SAND
52	9	& GRAVEL
42		
25	9	
22	11	MEDIUM BROWN SAND & GRAVEL
27	18	
23		
25		
29		
20	11	
32	17	MEDIUM BROWN SAND & GRAVEL
45	19	
266		ROCK EL. -13.2

MICA SCHIST 24'-31'
BROKEN ROCK 24'
1ST RUN 24' TO 26'-6" 1'-8" REC. 21 PCS.
2 " 26'-6" 29' 1'-1" " 24 "
3 " 29' 30' 7" " 19
4 " 30 31' 12"

DRILLING TIME

FT.	MINS.
1	15
2	12
3	17
4	14
5	12
6	25
7	30

HOLE 5-M

GROUND EL. + 10.9'

C	S	
0		
11		
12		14" CONCRETE PVMT, SHOT DRILLED
11		
14	1	WATER LEVEL 4'-10" BELOW GR. EL.
10	3	MISC. FILL
15	7	
17	8	
19		
17		
20	11	MED. TO FINE BR. & Y. SAND
25	9	
25	12	
21		
22		
20	7	MED. BR. SAND TR. OF
32	9	GRAVEL & SILT
35	9	
26		
27	5	MED. BR. SAND, TR. GRAVEL
32	3	& SILT
35	3	
20		
23		MED.
25	6	FINE BR. SAND
37	6	
28	8	
32		
31		
22	9	MED. TO FINE BR. SAND
28	11	
32	16	
40		
32		
32	8	MED. TO FINE BR. SAND SOME
51	9	FINE GRAVEL & SILT
62	10	
356		
262		
78		
72		ROCK EL. -31.6

38' TO 40' LEDGE INDICATED DRILLED CORE, REC. 8" BOULDER OR LEDGE BEDROCK AT 42'-6" = BOTTOM OF CASING DRILLED 42'-6" TO 45'-10"

REC. 3'-4" 24 PCS. QUARTZ & GNEISS HOLE FINISHED 45'-10"

DRILLING TIME

FT.	MINS.
1	25
2	22
3	24
4	15

7 BOTTLE SAMPLES

HOLE 6-M

GROUND EL. + 11.5'

C	S	
14		DRILLED CONC. PVMT.
17		
62		WATER LEVEL 5'-7" BELOW GR. EL.
73		
50	12	MED. TO F. BR. SAND &
62	12	GRAVEL
71	25	
42		
45		
27	11	BR. SILTY SAND
32	12	
35	15	
46		
39		
22	7	BR. GR. SILTY SAND
42	7	
51	10	
45		
53		
36	9	COARSE TO FINE BR.
38	17	SAND & GRAVEL
40	26	
35		
46		COARSE TO FINE BR.
52	14	SAND & GRAVEL
72	19	
80	22	
62		
73		
44	15	
88	14	MED. TO FINE BR. & RED
103	18	SAND TR. OF ROCK
110		FRAGMENTS
123		
262/7		ROCK EL. -24.3

ROCK FROM 35'-7" TO 40'-7" 3'-4" RECOVERY LOST CORE ON 1ST PULL RECOVER ON 2ND TRY

DRILLING TIME

FT.	MINS.
1	8
2	7
3	8
4	8
5	9

6 BOTTLE SAMPLES
BOTTOM AT 40'-7"

HOLE 7-M

GROUND EL. + 11.1'

C	S	
0		DRILLED CONC. PVMT.
7		
8		
9		WATER LEVEL 5'-6" BELOW GR. EL.
6		
10	7	MED. TO FINE BR. SAND
9	7	
9	3	
9	3	
8		
6	4	
5	4	
7	4	
7		
25	9	C TO F BRN. SAND &
22	8	GRAVEL
32	9	
38		
30		
36		
22	7	
32	7	
32	11	
41		COARSE TO FINE BR.
36	7	SAND & GRAVEL
28	9	
42	8	
38		
36		ROCK EL. -19.00
202		
272/6		

GRAY SCHISTOSE FRESH DENSE GRANULAR STRUCTURE, NO OBVIOUS CLEAVAGE LINES.

BOTTOM 35'-2"
REC. 4'-4" 6 PCS.

DRILLING TIME

FT	MINS.
1	10
2	10
3	12
4	10
5	12

5 BOTTLE SAMPLES

HOLE 8-M

GROUND EL. + 17.2'

C	S	
17		
32		
20		
16		
9		
12	9	BR. SAND & GRAVEL
12	12	
14	28	
12		WATER LEVEL 9'-6" BELOW GR. EL.
15		
17	7	FINE BL. SAND & LARGE
23	7	GRAVEL
22	8	
25		
28	9	COARSE TO FINE BR.
37	9	GR. SAND & GRAVEL
48	11	
52		
37		
22		
27	9	BR. SILTY SAND &
42	15	COARSE GRAVEL
51	19	
46		
43		
38	9	
49	12	COARSE TO FINE BROWN
51	16	SAND AND GRAVEL
42		ROCK EL. -13.3
60		

TOP OF ROCK 30'-6" DRILLED 5' MICA SCHIST VERT. & 45° SEAMS TRACE OF QUARTZ RECOV. 4'-9" 17 PCS.

DRILLING TIME

FT.	MINS.
1	10
2	8
3	9
4	11
5	12

5 BOTTLE SAMPLES
BOTTOM OF HOLE 35'-6"

HOLE	STA.	OFFSET
1M	114+88	66'R
2M	116+20	47'L
3M	115+60	50'R
4M	116+90	40'L
5M	116+80	50'R
6M	117+60	20'L
7M	117+55	36'R
8M	118+75	50'L
9M	118+75	55'R
10M	119+63	50'L
11M	119+63	50'R
12M	120+68	53'L

LEGEND

C = Casing Blows Per 1'-0"
S = Sample Blows Per 0'-6"

NOTE:

Each number opposite a sample is the number of blows to drive sampler Pipe C. For size of sampler and type of equipment, see Boring Equipment Data, this sheet.

BORING EQUIPMENT DATA

	CASING	SAMPLER PIPE
DIAMETER	2½" I.D.	2" 1⅜" Split-Spoon
HAMMER WT.	300 #	140 #
HAMMER FALL	2'-0"	2'-6"
RIG	S & H "E" Drill	S & H "E" Drill

Borings made by Giles Drilling Co. between 1-3-55 & 1-21-55

REVISIONS		
NO.	DATE	DESCRIPTION

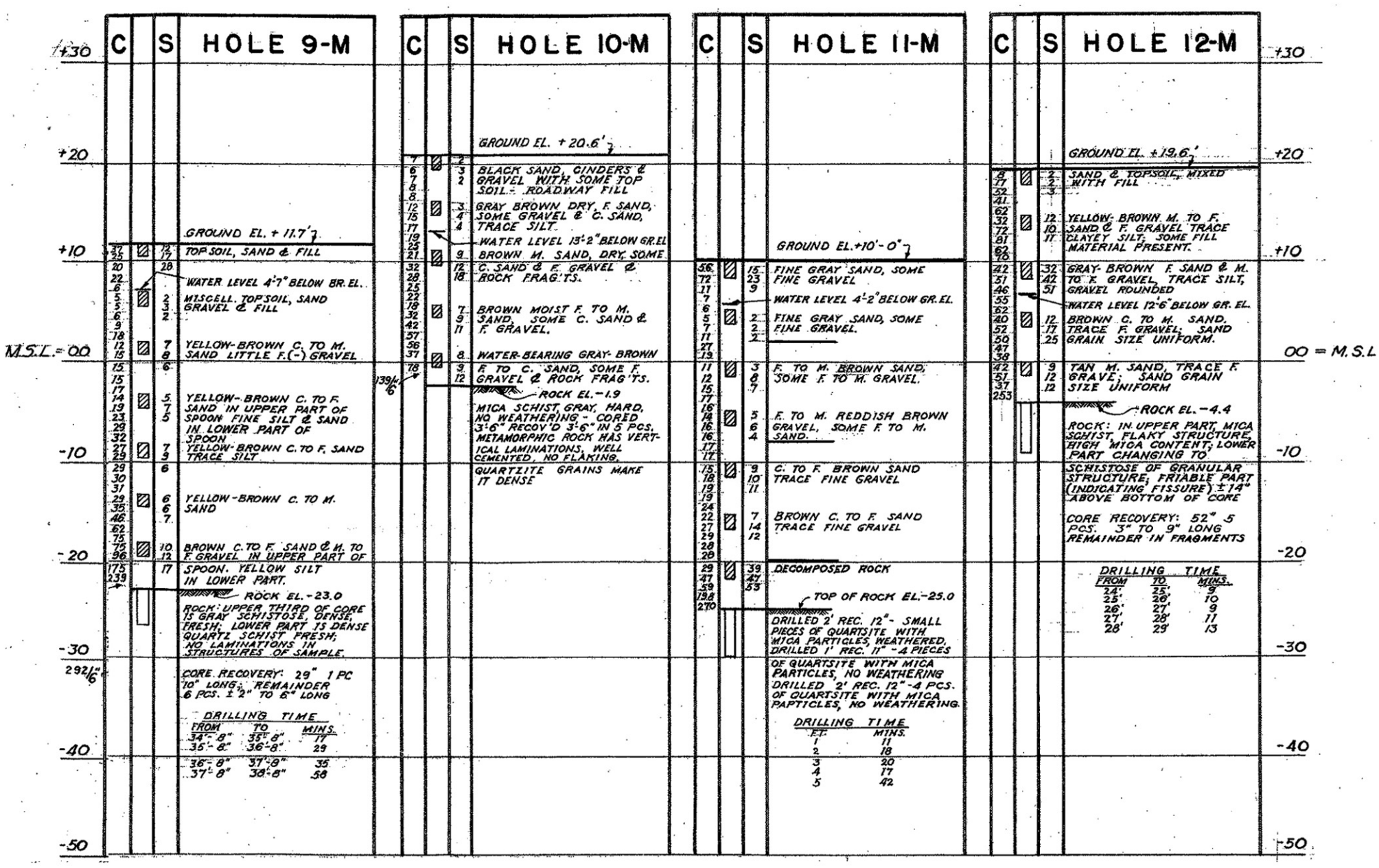
CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF STRATFORD
GREENWICH - KILLINGLY EXPWY.
OVER
MAIN STREET

BORINGS

DESIGNED BY PARSONS, BRINCKERHOFF, HALL & MACDONALD
SCALES PLOT 1"=10' PLAN 1"=40'
MADE BY R.A.R. DATE 1-21-55
CHECKED BY T.R.K. DATE 2-4-55
APPROVED M.E.F. DATE 2-7-55

PROJECT NO. 313-03
BRIDGE SHEET NO. 2 OF 11

Continue Viewing Appendix A



HOLE	STA.	OFFSET
1M	114+88	66'R
2M	116+20	47'L
3M	115+60	50'R
4M	116+90	40'L
5M	116+80	50'R
6M	117+60	20'L
7M	117+55	36'R
8M	118+75	50'L
9M	118+75	55'R
10M	119+63	50'L
11M	119+63	50'R
12M	120+68	53'L

LEGEND

C = Casing Blows Per 1'-0"
S = Sample Blows Per 0'-6"

NOTE:

Each number opposite a sample is the number of blows to drive sampler Pipe G". For size of sampler and type of equipment, see Boring Equipment Data, this sheet.

BORING EQUIPMENT DATA

	CASING	SAMPLER PIPE
DIAMETER	2½" I.D.	"A" 1⅜" Split-Spoon
HAMMER WT.	300 #	140#
HAMMER FALL	2'-0"	2'-6"
RIG	S. & H "E" Drill	S & H "E" Drill

Borings made by Giles Drilling Co. between 1-3-55 & 1-21-55

REVISIONS		
NO.	DATE	DESCRIPTION

CONNECTICUT
STATE HIGHWAY DEPARTMENT
TOWN OF STRATFORD
GREENWICH - KILLINGLY EXPWY.
OVER
MAIN STREET

BORINGS

DESIGNED BY PARSONS, BRINCKERHOFF, HALL & MACDONALD
SCALES PLOT 1"=10' PLAN 1"=40'
MADE BY R.A.R. DATE 1-21-55
CHECKED BY T.R.K. DATE 2-4-55
APPROVED M.E.F. DATE 2-7-55

PROJECT NO. 313-03
BRIDGE SHEET NO. 2 OF 11