

BFAST

PROB (CONTD)  
 1740 (NOTE: NO SOIL IS DISREGARDED FOR STRENGTH ANALYSIS)

DRILLING REPORT

COUNTY-	HARRIS	STRUCTURE-	SH99 @ EAST-WEST BLVD
HIGHWAY NO.-	SH99	HOLE NO.-	1
CONTROL-	3510-05-001	STATION-	1430+21.70
PROJECT NO.-		OFFSET-	58.7' RT
DATE-	11/10/88	CODED BY-	JPG
GRD. ELEV.-	112.8	GRD. WATER ELEV.-	112.8
DISTRICT-	12		

D E P T H	F PEN 1ST 6IN	PEN 2ND 6IN	S A M P L E	TAT LAT- ULT PSI	WET DEN PCF	MOI %	LL %	PI %	DESCRIPTION OF MATERIAL AND REMARKS
0									SAND, GRAY
1			1			11			
2			1						
3			1						
4			1						
5	4	5							
6			2			19			CLAY, W/SAND SEAM, BROWN, TAN
7			3			12			
8			4			13			
9			5		139	14	37		
10	7	7							
11			6			15			SAND-CLAY MIX, GRAY, TAN
12			7	0-	13	137	15		
13			8	0-	13	136	14		
14			9	0-	25	137	16	28	
15	10	15							
16			10			19			SAND, LT. GRAY, COMPACT
17			10						
18			11		149	14			
19			12			18			
20	12	38							
21									SAND, NO RECOVERY
22									
23									
24									
25	12	16							
26			13			20			SAND, BROWN, LOOSE
27			13						
28			14			19			
29			15			17			
30	9	6							
31									SAND, DRILLED OUT
32									
33									
34									
35	7	4							

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 40 15 29  
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 45 15 16  
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 50 13 16  
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 55 29 48  
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 60 40 27  
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 65 28 28  
 66  
 67  
 68  
 69  
 70 50/6.00 50/3.75  
 71  
 72  
 73  
 74  
 75 50/5.00 50/6.50

SAND,w/STONE LAYER,DRILLED OUT

CLAY,BROWN,STIFF

57

CLAY,SL.SANDY,BROWN

72

SAND,W/SOME CLAY,BROWN

SAND,DRILLED OUT

DRILLER- AL FARREL

LOGGER- MIKE BAHM  
 TITLE-

PROB (CONTD)

1740 (NOTE: NO SOIL IS DISREGARDED FOR STRENGTH ANALYSIS)

SOIL STRENGTH ANALYSIS RESULTS

HOLE NUMBER 1

STRAT NUM.	ELEVATION -FEET-		STRAT THICK NESS FEET	CEN- TROID DEPTH FEET	UNIF. SOIL CLASS	PEN TEST BLOWS/ FOOT	SOIL WET TEST CONST	COHES LBS/ SQFT	DENS LBS/ CUFT	INT. FRIC ANG.	VARIANCE TAT -----			
	FROM	TO									PEAK	AVG	RATIO	
1	113	108	5.0	2.5	OTHE									
2	108	103	5.0	7.5	CL	9.0	60							
3	103	98	5.0	12.5	SC	14.0	70	1219	137	0.0	4.0	2.7	3.3	
4	98	93	5.0	17.5	OTHE	25.0	80							
5	93	88	5.0	22.5	OTHE	50.0	80							
6	88	83	5.0	27.5	OTHE	28.0	80							
7	83	73	10.0	35.0	OTHE	13.0	80							
8	73	68	5.0	42.5	OTHE	44.0	80							
9	68	63	5.0	47.5	CH	31.0	50	2738	131	0.0	4.7	3.1	4.1	
10	63	60	3.0	51.5	CH	29.0	50	2858	135	0.0				
11	60	58	2.0	54.0	OTHE			2657	137	0.0				
12	58	48	10.0	60.0	OTHE	72.0	80							
13	48	38	10.0	70.0	OTHE	89.5	80							

PROB (CONTD)

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(NOTE: NO SOIL IS DISREGARDED FOR STRENGTH ANALYSIS)

SOIL STRENGTH ANALYSIS RESULTS  
 DISREGARD TO ELEVATION IS 112.0 FEET

HOLE NUMBER	ELEVATION -FEET-		DESIGN STRESS OF SOIL TONS/SQFT PER STRAT	ALLOWABLE STATIC FRICTIONAL RESISTANCE (DS)		REDUCED ALLOWABLE STATIC FRICTIONAL RESISTANCE			POINT BEARING STRENGTH SNC	TAT TO PEN RAT	
				TONS PER FT OF PERIMETER PER STRATUM	ACCUM- ULATIVE	PER STRATUM	ACCUM- ULATIVE	BEAR FACTOR NC			TONS/SQFT
STRATA NUMBER	FROM	TO	PER STRAT	STRATUM	ULATIVE	SR	STRATUM	ULATIVE	NC	TONS/SQFT	RAT
1	112.8	107.8	0.00	0.00	0.00	0.7	0.00	0.00	4.29	0.00	0.0
2	107.8	102.8	0.15	0.75	0.75	0.7	0.52	0.52	3.62	0.00	0.0
3	102.8	97.8	0.30	1.52	2.27	0.7	1.07	1.59	4.29	0.00	1.5
4	97.8	92.8	0.31	1.56	3.84	0.7	1.09	2.69	4.29	0.00	0.0
5	92.8	87.8	0.63	3.13	6.96	0.7	2.19	4.87	4.29	0.00	0.0
6	87.8	82.8	0.35	1.75	8.71	0.7	1.22	6.10	4.29	0.00	0.0
7	82.8	72.8	0.16	1.62	10.34	0.7	1.14	7.24	4.29	0.00	0.0
8	72.8	67.8	0.55	2.75	13.09	0.7	1.92	9.16	4.29	0.00	0.0
9	67.8	62.8	0.68	3.42	16.51	0.7	2.40	11.56	2.57	0.00	1.1
10	62.8	59.8	0.71	2.14	18.65	0.7	1.50	13.06	2.57	0.00	1.2
11	59.8	57.8	0.66	1.33	19.98	0.7	0.93	13.99	4.29	0.00	0.0
12	57.8	47.8	0.90	9.00	28.98	0.7	6.30	20.29	4.29	0.00	0.0
13	47.8	37.8	1.12	11.19	40.17	0.7	7.83	28.12	4.29	0.00	0.0

# DRILLING LOG

COUNTY HARRIS  
 HIGHWAY NO SH99  
 CONTROL 3510-05-001  
 IPE

STRUCTURE SH99 & EAST-WEST BLVD  
 HOLE NO 1  
 STATION 1430+21.70  
 LOCATION 58.7' RT

THD DIST 12  
 DATE 11/10/88  
 GRD. ELEV. 112.8  
 GRD. WATER ELEV. 112.6

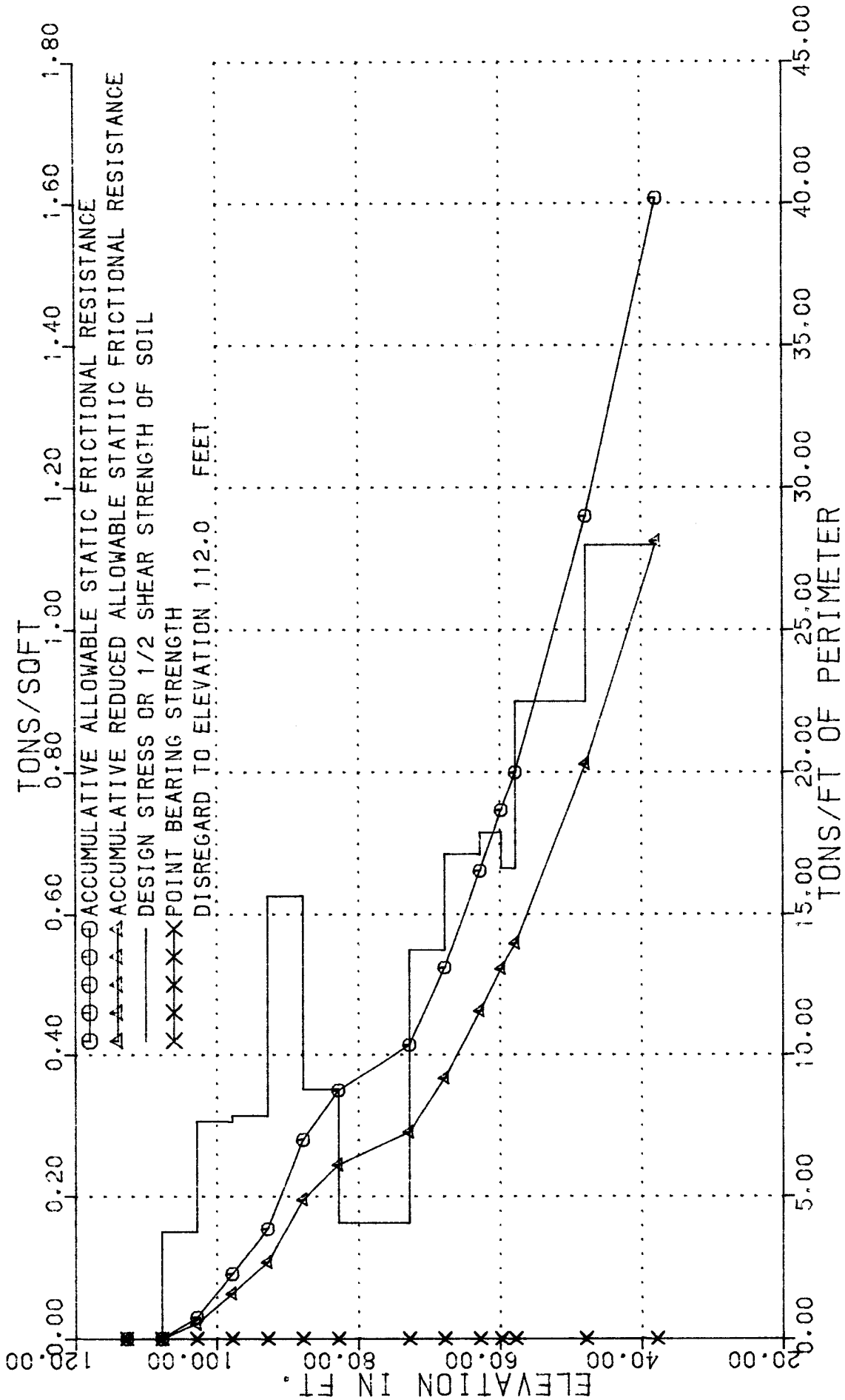
ELEV FT.	LOG	THD PEN. TEST NO. OF BLOWS		DESCRIPTION OF MATERIAL	METHOD OF CORING
		1ST 6"	2ND 6"		
112.8 0				SAND, GREY	0
107.8		4 (6.0")	5 (6.0")	CLAY, W/SAND SEAM, BRN. TAN	
102.6 10		7 (6.0")	7 (6.0")	SAND-CLAY MIX, GR. TAN	10
97.8		10 (6.0")	15 (6.0")	SAND, LT. GREY, COMPACT	
92.6 20		12 (6.0")	36 (6.0")	SAND, NO RECOVERY	20
87.8		12 (6.0")	16 (6.0")	SAND, BROWN, LOOSE	
82.8 30		9 (6.0")	6 (6.0")	SAND, DRILLED OUT	30
		7 (6.0")	4 (6.0")		
72.8 40		15 (6.0")	29 (6.0")	SAND, W/STONE LAYER, DRILLED OUT	40
67.8		15 (6.0")	16 (6.0")	CLAY, BRN. STIFF	
62.6 50		13 (6.0")	16 (6.0")	CLAY, SL. SANDY, BROWN	50
59.8		29 (6.0")	48 (6.0")	SAND, W/SOME CLAY, BROWN	
57.8				SAND, DRILLED OUT	
60		40 (6.0")	27 (6.0")		60
47.8		28 (6.0")	28 (6.0")	SAND, DRILLED OUT	
70		50 (6.0")	50 (3.7")		70
		50 (5.0")	50 (6.5")		
*REMARKS: NO GWE MEASURED					

DRILLER AL FARREL

LOGGER MIKE BAHM

TITLE

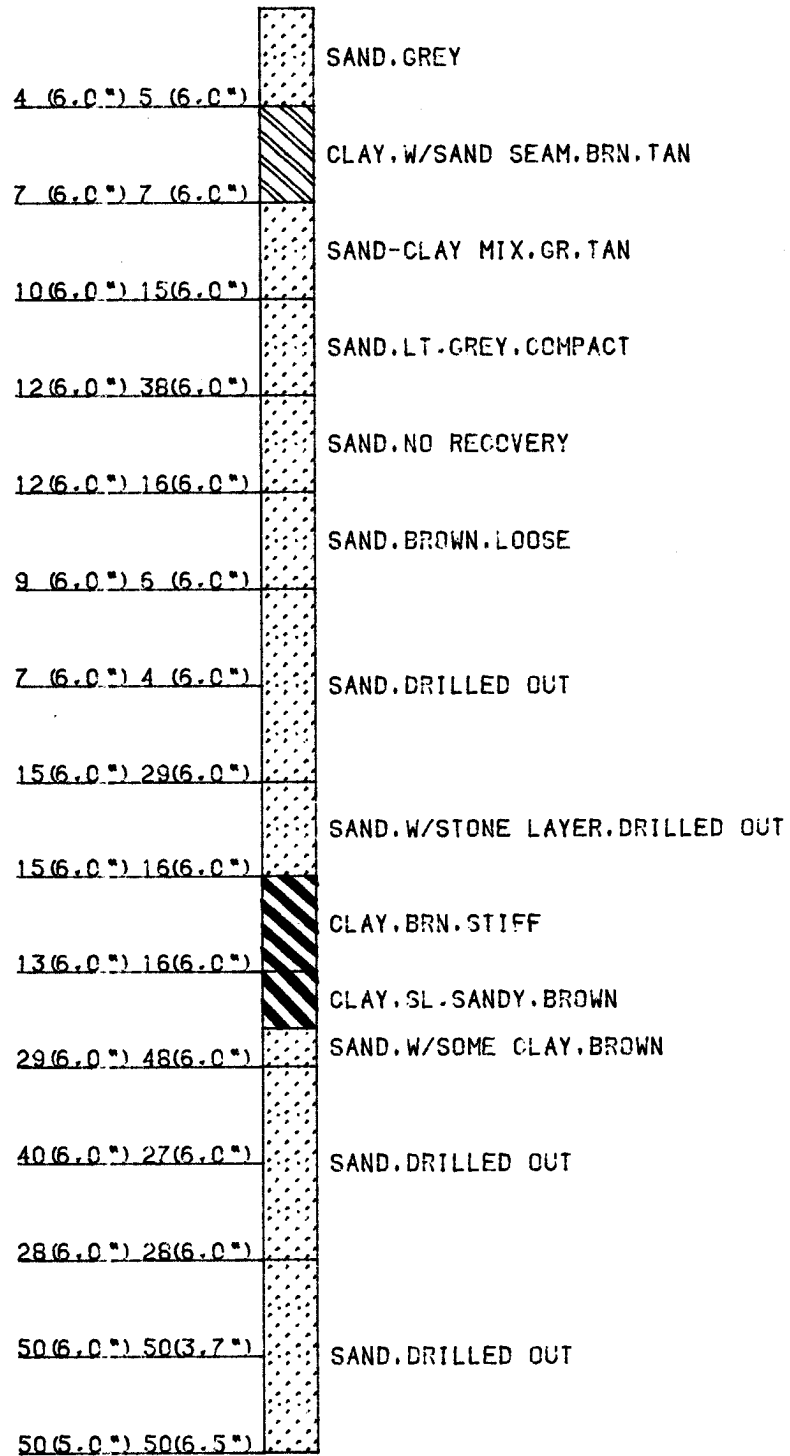
# FOUNDING MATERIAL PROPERTIES



COUNTY	HARRIS	THD DIST	12
HIGHWAY NO	SH99	DATE	11/10/86
CONTROL	3510-05-001	BY	JPG
STRUCTURE	SH99 & EAST-WEST BLVD		
HOLE NO	1		
STATION	1430+21.70		
LOCATION	58.7' RT		

TEST HOLE NO. 1

GROUND ELEV. 112.8





36  
 37  
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 40 50/4.50 50/3.00  
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 45 11 12  
 46 13 0- 28 129 25  
 47 14 0- 22 128 25  
 48 15 0- 46 127 24 67  
 49 16 0- 52 128 25  
 50 19 24  
 51 17 15  
 52 18 0- 30 136 15 35  
 53 19 137 14  
 54 20 0- 36 137 14  
 55 29 48  
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 60 34 38  
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 62  
 63  
 64  
 65 50/5.75 50/4.50  
 66  
 67  
 68  
 69  
 70 50/4.50 50/2.75  
 71  
 72  
 73  
 74  
 75 50/5.75 50/3.50

SAND, DRILLED OUT

CLAY, BROWN, W/CALCS., STIFF

SAND, W/SM CLAY, BROWN

SAND, DRILLED OUT

SAND, DRILLED OUT

DRILLER- AL FARREL

LOGGER- MIKE BAHM  
 TITLE-

PROB (CONTD)

1740

(NOTE: NO SOIL IS DISREGARDED FOR STRENGTH ANALYSIS)

SOIL STRENGTH ANALYSIS RESULTS

HOLE NUMBER 2

STRAT NUM.	ELEVATION -FEET-		STRAT THICK NESS FEET	CEN- TROID DEPTH FEET	UNIF. SOIL CLASS	PEN TEST BLOWS/ FOOT	SOIL WET COHES TEST CONST	DENS LBS/ CUFT	INT. FRIC ANG.	VARIANCE TAT			
	FROM	TO								----- PEAK	AVG	RATIO	
1	111	106	5.0	2.5	OTHE								
2	106	96	10.0	10.0	CL	16.5	60	1685	139	0.0	3.5	2.6	3.4
3	96	91	5.0	17.5	OTHE	16.0	80						
4	91	81	10.0	25.0	OTHE	26.0	80						
5	81	71	10.0	35.0	OTHE	15.5	80						
6	71	68	3.0	41.5	OTHE	160.0	80						
7	68	61	7.0	46.5	CH	23.0	50	2660	128	0.0	7.4	6.0	3.5
8	61	56	5.0	52.5	SC	43.0	70	2398	136	0.0			
9	56	46	10.0	60.0	OTHE	74.5	80						
10	46	36	10.0	70.0	OTHE	141.3	80						

RFAST

PROB (CONTD)

1740

(NOTE: NO SOIL IS DISREGARDED FOR STRENGTH ANALYSIS)

SOIL STRENGTH ANALYSIS RESULTS  
 DISREGARD TO ELEVATION IS 111.0 FEET

HOLE NUMBER 2

STRATA NUMBER	ELEVATION -FEET-		DESIGN STRESS OF SOIL TONS/SQFT PER STRAT	ALLOWABLE STATIC FRICTIONAL RESISTANCE (DS) TONS PER FT OF PERIMETER PER ACCUM-		REDUCED ALLOWABLE STATIC FRICTIONAL RESISTANCE ----- PER ACCUM-			BEAR FACTOR NC	POINT BEARING STRENGTH SNC TONS/SQFT	TAT TO PEN RAT
	FROM	TO		PER	ACCUM-	SR	STRATUM	ULATIVE			
1	111.4	106.4	0.00	0.00	0.00	0.7	0.00	0.00	4.29	0.00	0.0
2	106.4	96.4	0.42	4.21	4.21	0.7	2.95	2.95	3.62	0.00	1.5
3	96.4	91.4	0.20	1.00	5.21	0.7	0.70	3.65	4.29	0.00	0.0
4	91.4	81.4	0.32	3.25	8.46	0.7	2.27	5.92	4.29	0.00	0.0
5	81.4	71.4	0.19	1.94	10.40	0.7	1.36	7.28	4.29	0.00	0.0
6	71.4	68.4	0.90	2.70	13.10	1.0	2.70	9.98	4.29	0.00	0.0
7	68.4	61.4	0.67	4.66	17.76	0.7	3.26	13.24	2.57	0.00	1.4
8	61.4	56.4	0.60	3.00	20.75	0.7	2.10	15.34	4.29	0.00	1.0
9	56.4	46.4	0.93	9.31	30.07	0.7	6.52	21.86	4.29	0.00	0.0
10	46.4	36.4	0.85	8.50	38.57	1.0	8.50	30.36	4.29	0.00	0.0

# DRILLING LOG

COUNTY HARRIS  
 HIGHWAY NO SH99  
 CONTROL 3510-05-001  
 IPE

STRUCTURE SH99 & EAST-WEST BLVD  
 HOLE NO 2  
 STATION 1431+98.50  
 LOCATION 2.2' LT

THD DIST 12  
 DATE 11/10/88  
 GRD. ELEV. 111.4  
 GRD. WATER ELEV. 96.8

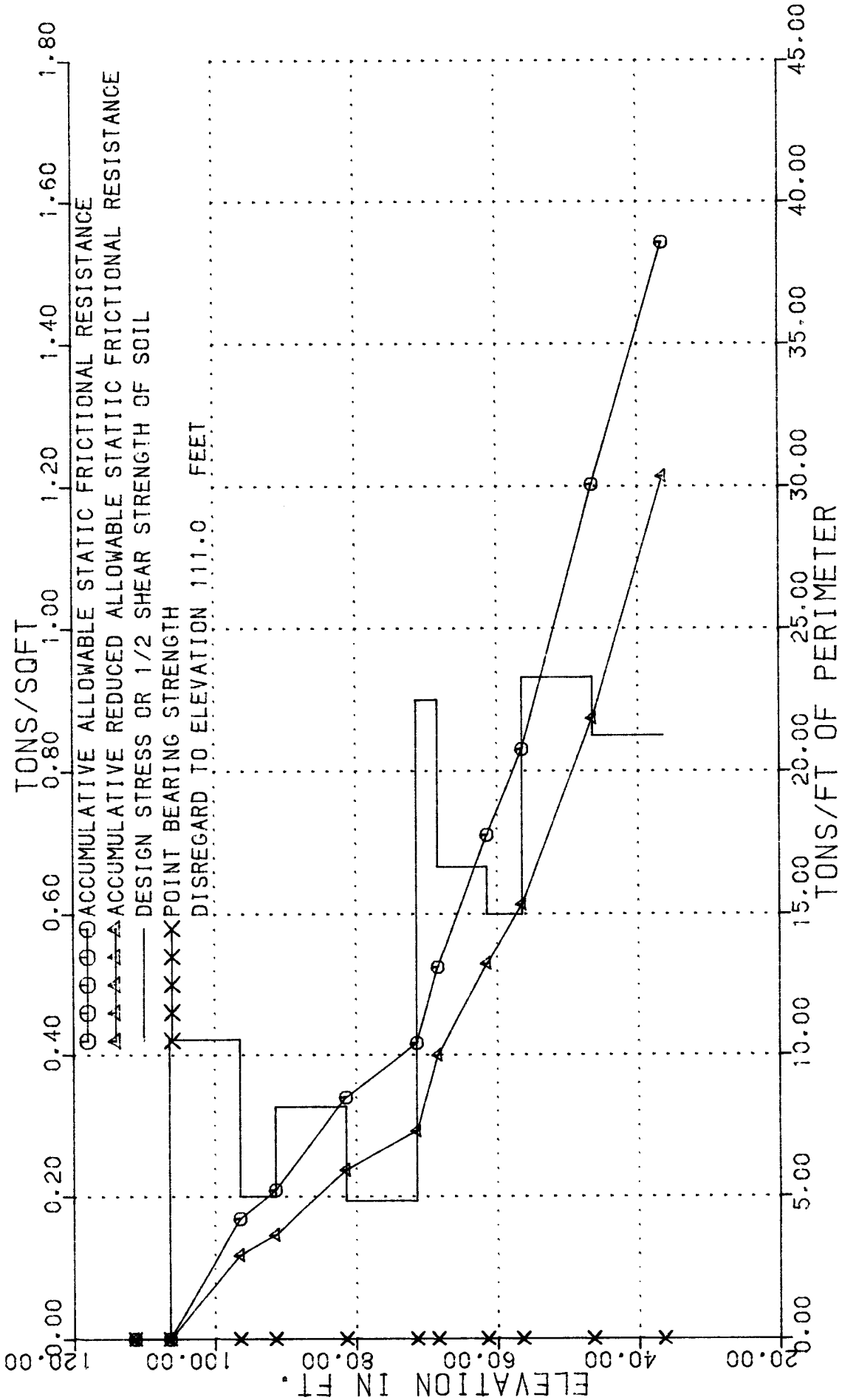
ELEV FT.	LOG	THD PEN. TEST NO. OF BLOWS		DESCRIPTION OF MATERIAL	METHOD OF CORING
		1ST 6"	2ND 6"		
111.4	0			SAND, GREY, SL. COMPACT	0
106.4		10 (6.0")	9 (6.0")	CLAY, W/SM SAND, GR. STIFF	
10		7 (6.0")	7 (6.0")		10
96.4		8 (6.0")	8 (6.0")	SAND, LT. GR. SL. COMPACT	
91.4	20	10 (6.0")	12 (6.0")	SAND, DRILLED OUT	20
		18 (6.0")	12 (6.0")		
81.4	30	10 (6.0")	13 (6.0")	SAND, DRILLED OUT	30
		6 (6.0")	2 (6.0")		
71.4	40	50 (4.5")	50 (3.0")	SAND, DRILLED OUT	40
68.4		11 (6.0")	12 (6.0")	CLAY, BRN, W/CALCS., STIFF	
61.4	50	19 (6.0")	24 (6.0")	SAND, W/SM CLAY, BRN	50
56.4		29 (6.0")	48 (6.0")	SAND, DRILLED OUT	
60		34 (6.0")	36 (6.0")		60
46.4		50 (5.7")	50 (4.5")	SAND, DRILLED OUT	
70		50 (4.5")	50 (2.7")		70
		50 (5.7")	50 (3.5")		
*REMARKS: GWE MEAS. • END OF DRLG					

DRILLER AL FARREL

LOGGER MIKE BAHM

TITLE

# FOUNDING MATERIAL PROPERTIES



COUNTY	HARRIS	STRUCTURE SH99	EAST-WEST BLVD	THD DIST	12
HIGHWAY NO	SH99	HOLE NO	2	DATE	11/10/88
CONTROL	3510-05-001	STATION	1-431+98.50	BY	JPG
IPE		LOCATION	2-2' LT		

TEST HOLE NO. 2

GROUND ELEV. 111.4

