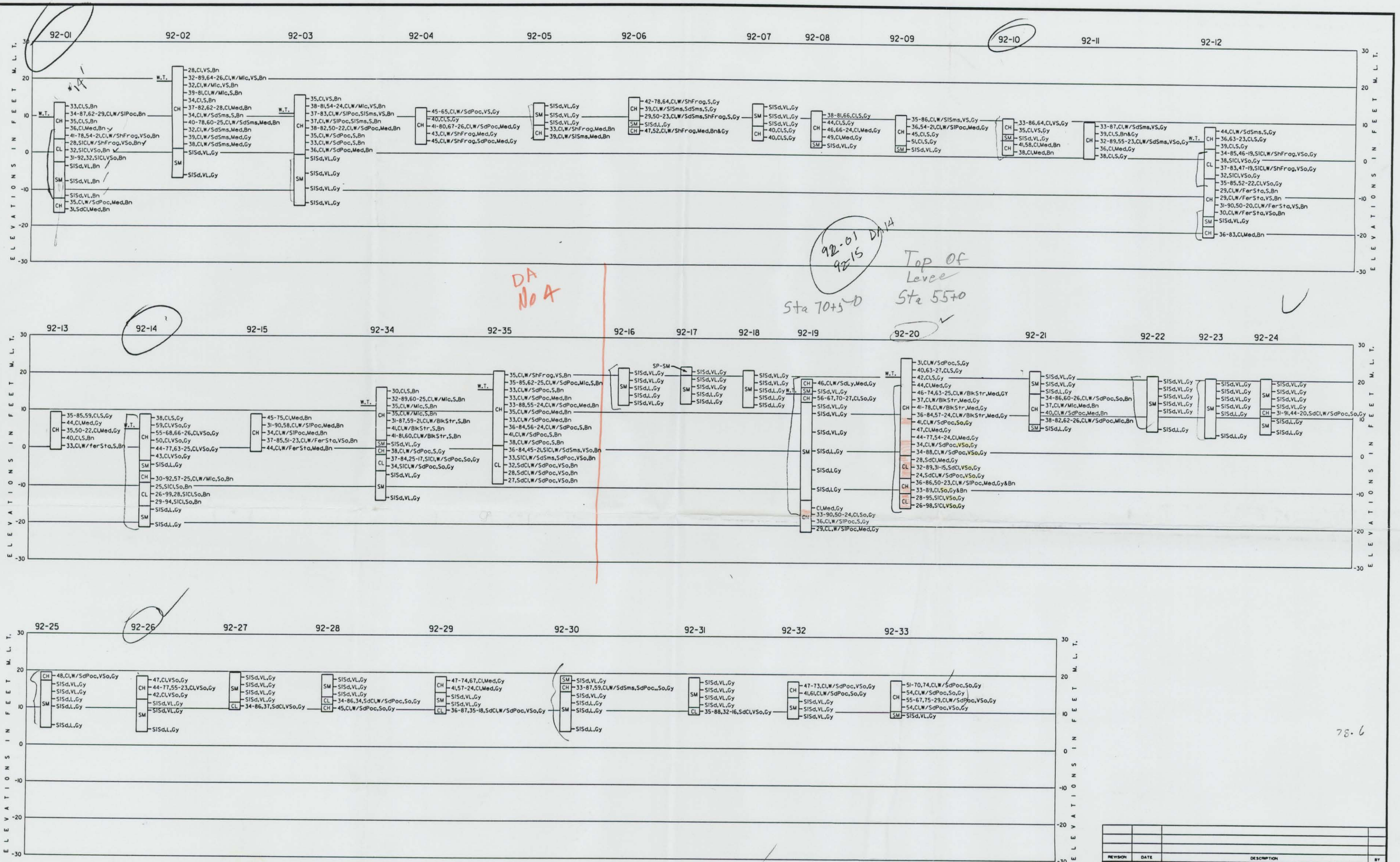




NOTE: SEE DRAWING NUMBER F-6 FOR SOILS NOTES.

REVISION		DATE	DESCRIPTION	BY
OFFICE OF THE DISTRICT ENGINEER U.S. ARMY ENGINEER DISTRICT, GALVESTON CORPS OF ENGINEERS GALVESTON, TEXAS				
DRAWN BY: P.B.S.		Brazos Island Harbor, Texas Brownsville Channel Dredging Inshore Reach No. 1 DISPOSAL AREAS Nos. 2 & 4 BORING LOGS		
CHECKED BY: J.T.F.		DATE: MAY 1992		
SUBMITTED BY: [Signature]		APPROVED BY: [Signature]		
Prepared under the direction of Brink P. Miller, Col., C.E., District Engineer		SCALE: AS SHOWN SPEC. DATE: DRAWING NUMBER F-7 SHEET 14 OF 17 FILE NO. RID 901-240		

DEPTH, FEET		SAMPLE	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>92-11</u> DATE: BEGIN <u>3-29-92</u> PAGE <u>1 / 1</u> JOB NO. <u>146535</u> COMPLETE <u>3-20-92</u> Thin Walled Tube PROJECT <u>Brownsville Disp. Area #4</u> ☒ 3" ☐ 6" LOCATION <u>Ship Channel</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>ARDLO-C-1000</u> GROUNDWATER: DEPTH <u>DRY</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>P.C. Warm Windy</u> DRILLER <u>D. Mitchell</u> LOGGER <u>F. Berg</u>						
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS						
0		1	1.25	Tan	Clay	Stiff	Sand					
		2	.25	Tan	"	Soft	Silt					
5		3	.25	Tan	"	"	"					
		4	.25	Tan	"	"	"					
10		5	.25	Gray Tan	"	"	"					
		Bottom of 92-11										
		10'										
15												
20												
25												
30												
35												

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 92-11

S #: Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classification, M c : Moisture Content
q u : Unconfined Compressive Strength, W O H : Weight of hammer, W O P : Weight of pipe

Geotest Engineering, Inc.

JOB NO. 14G538

DATE 4/4/92

PROJECT Disposal Areas Nos.2 and 4 for Brownsvill Ship Channel, Brown

BORING NO. 92-11

SAMPLE NO. 3

DEPTH 4-6 ft

SPECIMEN NO. 1

CLASSIFICATION

Gray, Clay, Very soft, w/sand seams

Tare No.	KL 28	Height	5.595 in.
Tare plus Wet Specimen	701.82 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	543.99 gm	Initial Area	6.290 sq in.
Water Weight	157.83 gm	Volume	35.194 cu in.
Tare Weight	42.54 gm	Volume of Solids	cu in.
Wet Specimen	1078.54 gm	Void Ratio	
Dry Specimen	820.34 gm	Saturation	%
Water Content	31.47 %	Dry Density	88.8 lb/cu ft
Specific Gravity of Solids			
LL = 55	PL = 23	PI = 32	

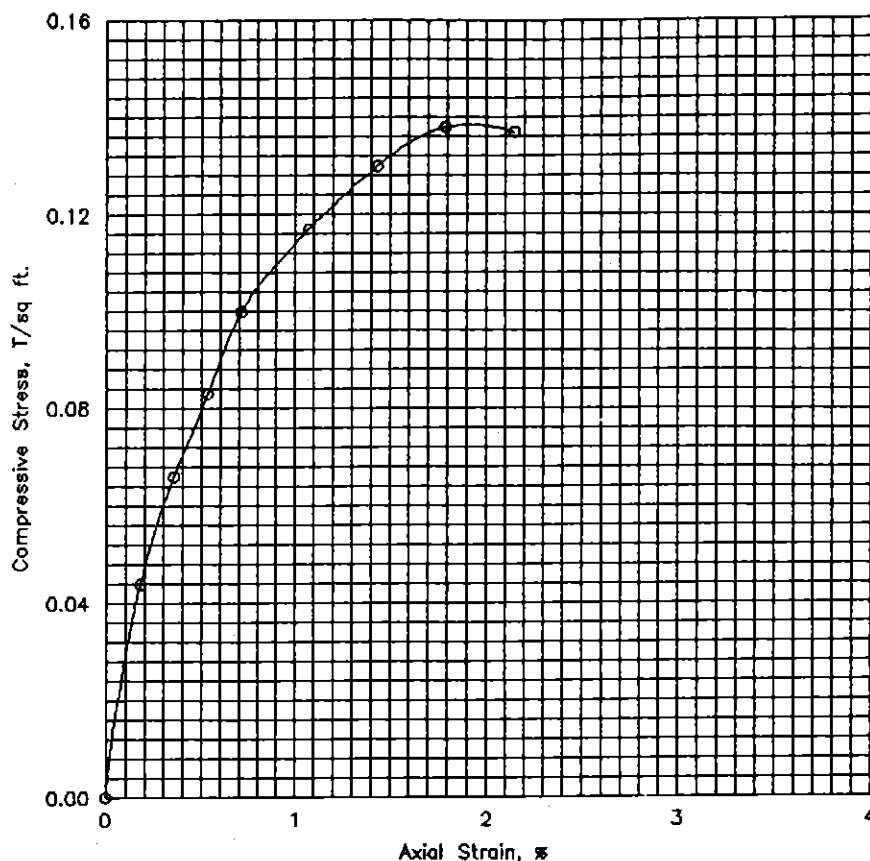
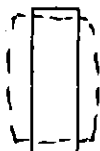
Proving Ring No. 10170

Proving Ring Constant, K = .766 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	5.0	3.8	.002	6.30	.044
.4	20.	.020	7.5	5.7	.004	6.31	.066
.5	30.	.030	9.5	7.3	.005	6.32	.083
.7	40.	.040	11.5	8.8	.007	6.34	.100
1.0	60.	.060	13.5	10.3	.011	6.36	.117
1.4	80.	.080	15.0	11.5	.014	6.38	.130
1.7	100.	.100	16.0	12.3	.018	6.40	.138
2.0	120.	.120	16.0	12.3	.021	6.43	.137

Job No. 14G538

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.		1	
Type of Specimen		Undisturbed	
Initial	Water content	w_0	31.5 %
	Void ratio	e_0	
	Saturation	S_0	%
	Dry density, lb/cu ft	γ_d	88.8
Time to failure, min		t_f	1.72
Unconfined compressive strength, T/sq ft		q_u	.14
Undrained shear strength, T/sq ft		S_u	.07
Sensitivity ratio		S_t	
Initial specimen diameter, in.		D_0	2.830
Initial specimen height, in.		H_0	5.595
Classification Gray, Clay, Very soft, w/sand seams			
LL	55	PL	23
		PI	32
		G_s	
Remarks		Project Disposal Areas Nos. 2 and 4 for Brownsville	
		Area Ship Channel, Brownsville, Texas	
		Boring No. 92-11	Sample No. 3
		Depth 4-6 ft	Date 4/4/92
		UNCONFINED COMPRESSION TEST REPORT	