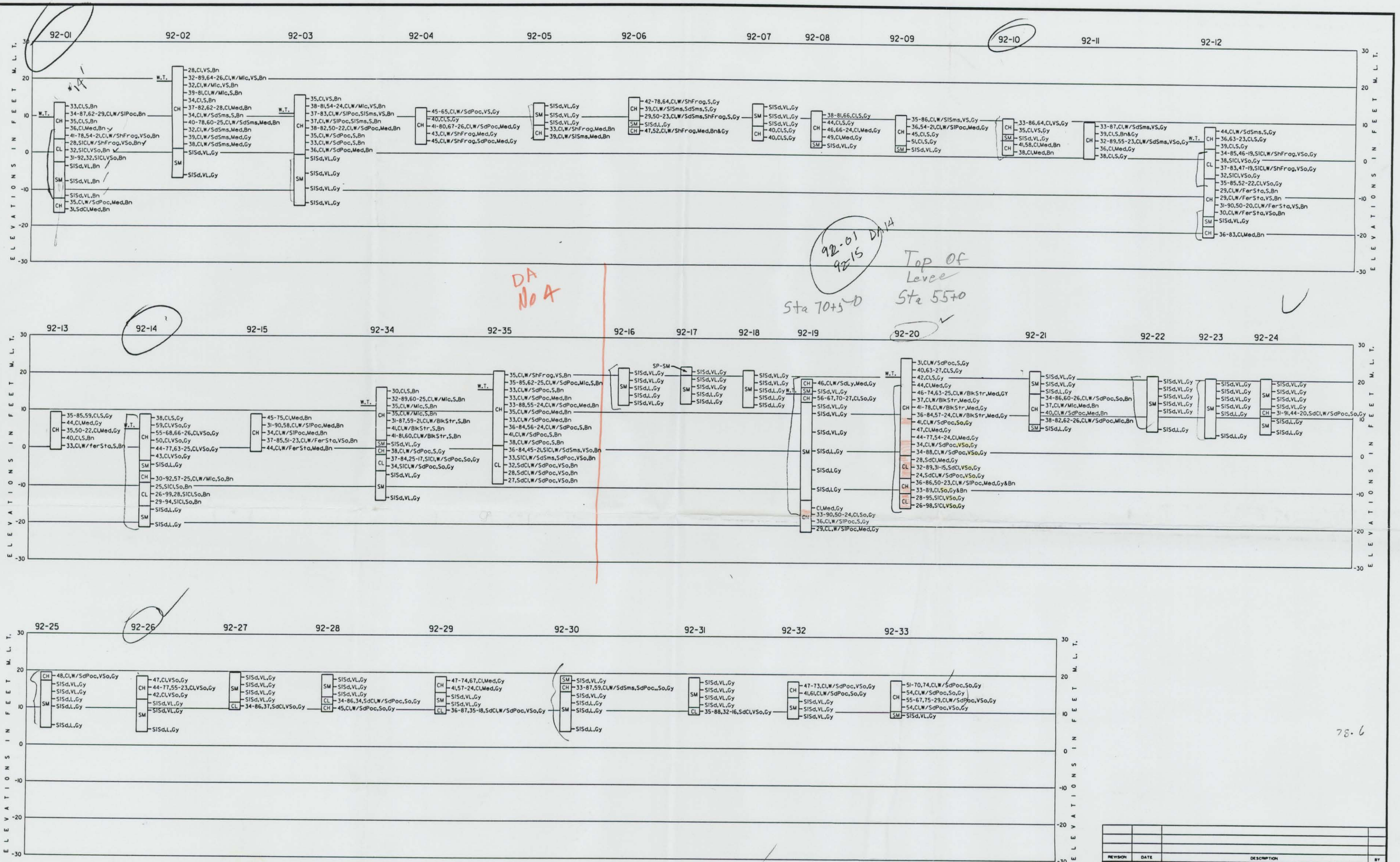




NOTE: SEE DRAWING NUMBER F-6 FOR SOILS NOTES.

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		

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>92-15</u> DATE: BEGIN <u>3-21-92</u> PAGE <u>1 / 1</u> JOB NO. <u>146535</u> COMPLETE <u>3-21-92</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>ATDCO-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>J. Bee</u>				
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS				
0		1	.25	Tan GRAY	Clay	soft	Sand	Bottom of 92-15 10'.		
		2	.25	Tan	"	"	"			
		3	.25	"	"	"	"			
		4	.25	Tan GREEN	"	"	"			
		5	.75	"	"	med stiff	"			
10										
15										
20										
25										
30										
35										

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 92-15

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. 92-15

SAMPLE NO. 4

DEPTH 6-8 ft

SPECIMEN NO. 1

CLASSIFICATION

Brown, Clay, Very soft, w/ferrous stains

Tare No.	KL-25	Height	5.595 in.
Tare plus Wet Specimen	561.43 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	422.20 gm	Initial Area	6.290 sq in.
Water Weight	139.23 gm	Volume	35.194 cu in.
Tare Weight	42.48 gm	Volume of Solids	cu in.
Wet Specimen	1071.46 gm	Void Ratio	
Dry Specimen	784.00 gm	Saturation	%
Water Content	36.67 %	Dry Density	84.9 lb/cu ft
Specific Gravity of Solids			
LL = 51	PL = 23	PI = 28	

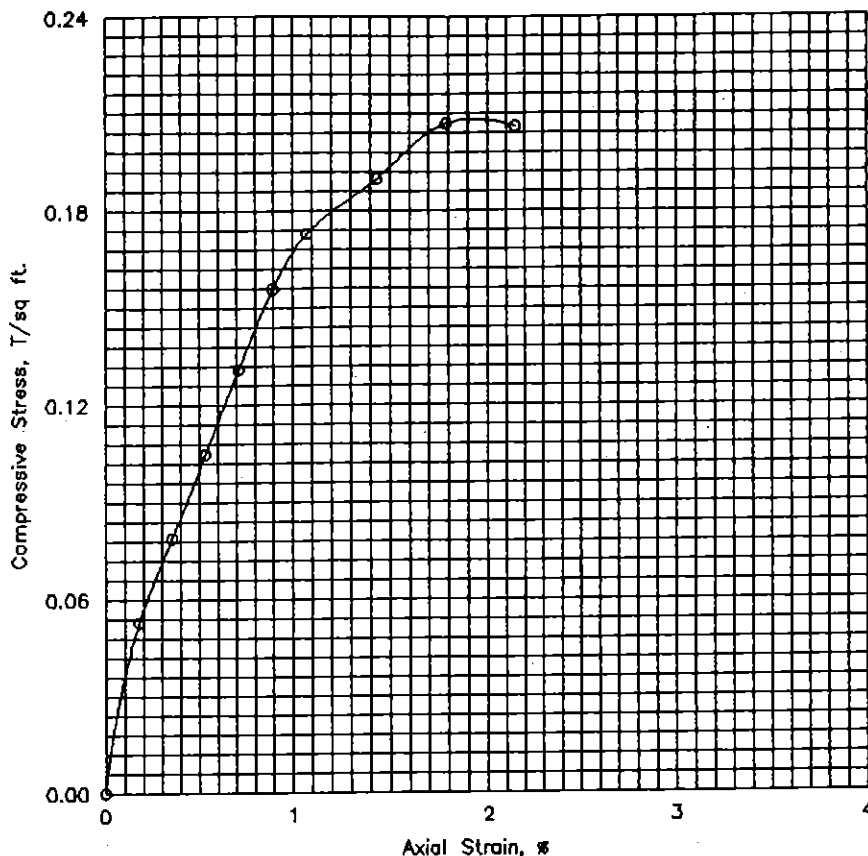
Proving Ring No. 10170

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	6.0	4.6	.002	6.30	.053
.3	20.	.020	9.0	6.9	.004	6.31	.079
.5	30.	.030	12.0	9.2	.005	6.32	.105
.7	40.	.040	15.0	11.5	.007	6.34	.131
.9	50.	.050	18.0	13.8	.009	6.35	.156
1.0	60.	.060	20.0	15.3	.011	6.36	.173
1.4	80.	.080	22.0	16.9	.014	6.38	.190
1.5	100.	.100	24.0	18.4	.018	6.40	.207
1.9	120.	.120	24.0	18.4	.021	6.43	.206

Job No. 146538

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.		1			
Type of Specimen		Undisturbed			
Initial	Water content	w_0	36.7 %		
	Void ratio	e_0			
	Saturation	S_0			
	Dry density, lb/cu ft	γ_d	84.9		
Time to failure, min		t_f	1.52		
Unconfined compressive strength, T/sq ft		q_u	.21		
Undrained shear strength, T/sq ft		S_u	.10		
Sensitivity ratio		S_t			
Initial specimen diameter, in.		D_0	2.830		
Initial specimen height, in.		H_0	5.595		
Classification Brown, Clay, Very soft, w/ferrous stains					
LL	51	PL	23	PI	28
				G_s	
Remarks		Project Disposal Areas Nos. 2 and 4 for Brownsville			
		Area Ship Channel, Brownsville, Texas			
		Boring No. 92-15		Sample No. 4	
		Depth 6-8 ft		Date 4/4/92	
		UNCONFINED COMPRESSION TEST REPORT			