





JOB NO. 14G627

DATE 4/1/93

PROJECT Brazos Island Harbor Project  
Brownsville Shipchannel

AREA Brownsville, Texas

BORING NO. 92-122

SAMPLE NO. 2

DEPTH 2-4 ft

SPECIMEN NO. 1

CLASSIFICATION

Yellowish Brown, Clay, Soft

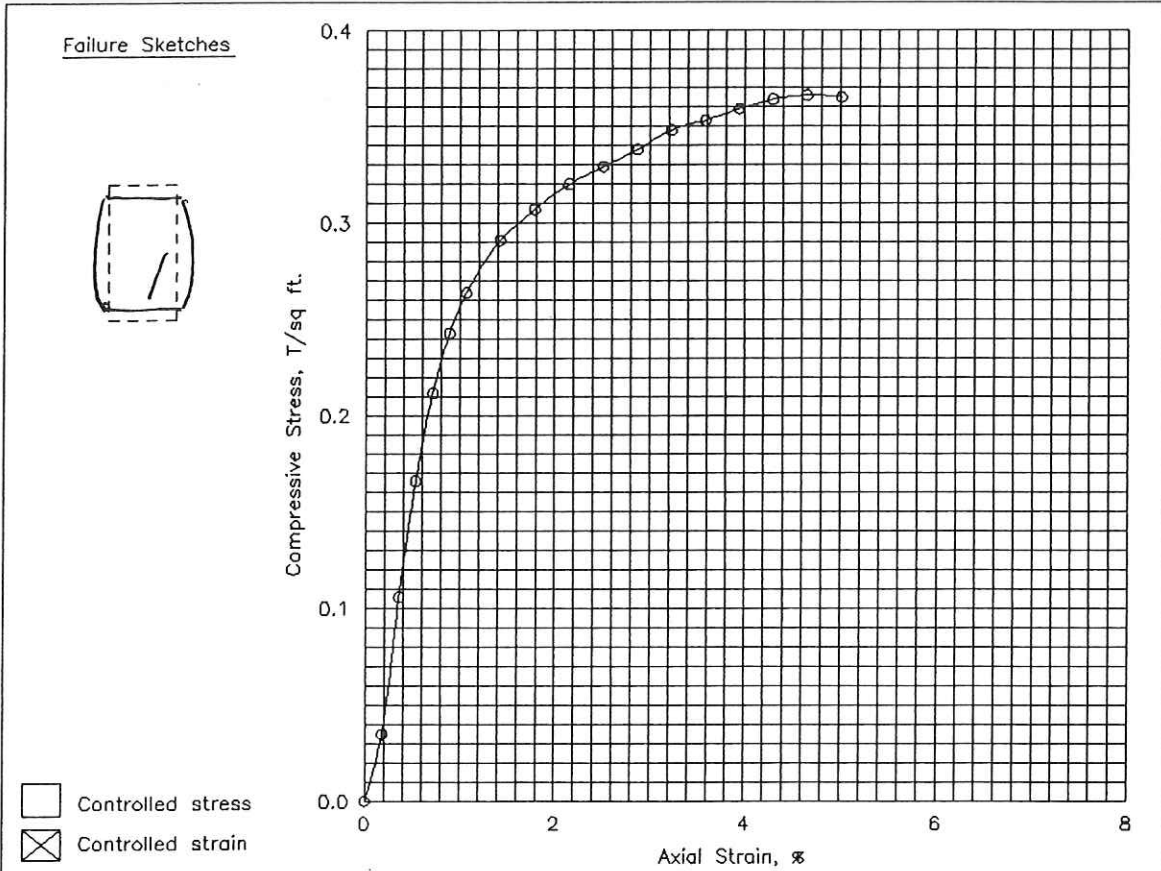
Tare No.	KL-19	Height	5.595 in.
Tare plus Wet Specimen	690.79 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	518.62 gm	Initial Area	6.290 sq in.
Water Weight	172.17 gm	Volume	35.194 cu in.
Tare Weight	42.74 gm	Volume of Solids	cu in.
Wet Specimen	1015.95 gm	Void Ratio	
Dry Specimen	746.04 gm	Saturation	%
Water Content	36.18 %	Dry Density	80.8 lb/cu ft
Specific Gravity of Solids			
LL = 61	PL =	PI =	

Proving Ring No. 10170

Proving Ring Constant, K = .311 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	10.0	3.1	.002	6.30	.035
.3	20.	.020	30.0	9.3	.004	6.31	.106
.5	30.	.030	47.0	14.6	.005	6.32	.166
.7	40.	.040	60.0	18.6	.007	6.34	.212
.9	50.	.050	69.0	21.4	.009	6.35	.243
1.0	60.	.060	75.0	23.3	.011	6.36	.264
1.4	80.	.080	83.0	25.8	.014	6.38	.291
1.7	100.	.100	88.0	27.3	.018	6.40	.307
2.0	120.	.120	92.0	28.6	.021	6.43	.320
2.3	140.	.140	95.0	29.5	.025	6.45	.329
2.7	160.	.160	98.0	30.4	.029	6.48	.338
3.0	180.	.180	101.0	31.4	.032	6.50	.348
3.3	200.	.200	103.0	32.0	.036	6.52	.353
3.6	220.	.220	105.0	32.6	.039	6.55	.359
5.0	240.	.240	107.0	33.2	.043	6.57	.364
5.3	260.	.260	108.0	33.5	.046	6.60	.366
5.7	280.	.280	108.0	33.5	.050	6.62	.365

Job No. 14G627



Test No.		1			
Type of Specimen		Undisturbed			
Initial	Water content	$w_0$	36.2 %	%	%
	Void ratio	$e_0$			
	Saturation	$S_0$	%	%	%
	Dry density, lb/cu ft	$\gamma_d$	80.8		
Time to failure, min		$t_f$	5.33		
Unconfined compressive strength, T/sq ft		$q_u$	.37		
Undrained shear strength, T/sq ft		$S_u$	.18		
Sensitivity ratio		$S_t$			
Initial specimen diameter, in.		$D_0$	2.830		
Initial specimen height, in.		$H_0$	5.595		

Classification Yellowish Brown, Clay, Soft

LL	61	PL		PI		$G_s$	
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Remarks	Project Brazos Island Harbor Project	
	Brownsville Shipchannel	
	Area Brownsville, Texas	
	Boring No. 92-122	Sample No. 2
	Depth 2-4 ft	Date 4/1/93
	UNCONFINED COMPRESSION TEST REPORT	

JOB NO. 14G627

DATE 4/1/93

PROJECT Brazos Island Harbor Project  
Brownsville Shipchannel

AREA Brownsville, Texas

BORING NO. 92-122

SAMPLE NO. 4

DEPTH 6-8 ft

SPECIMEN NO. 1

CLASSIFICATION

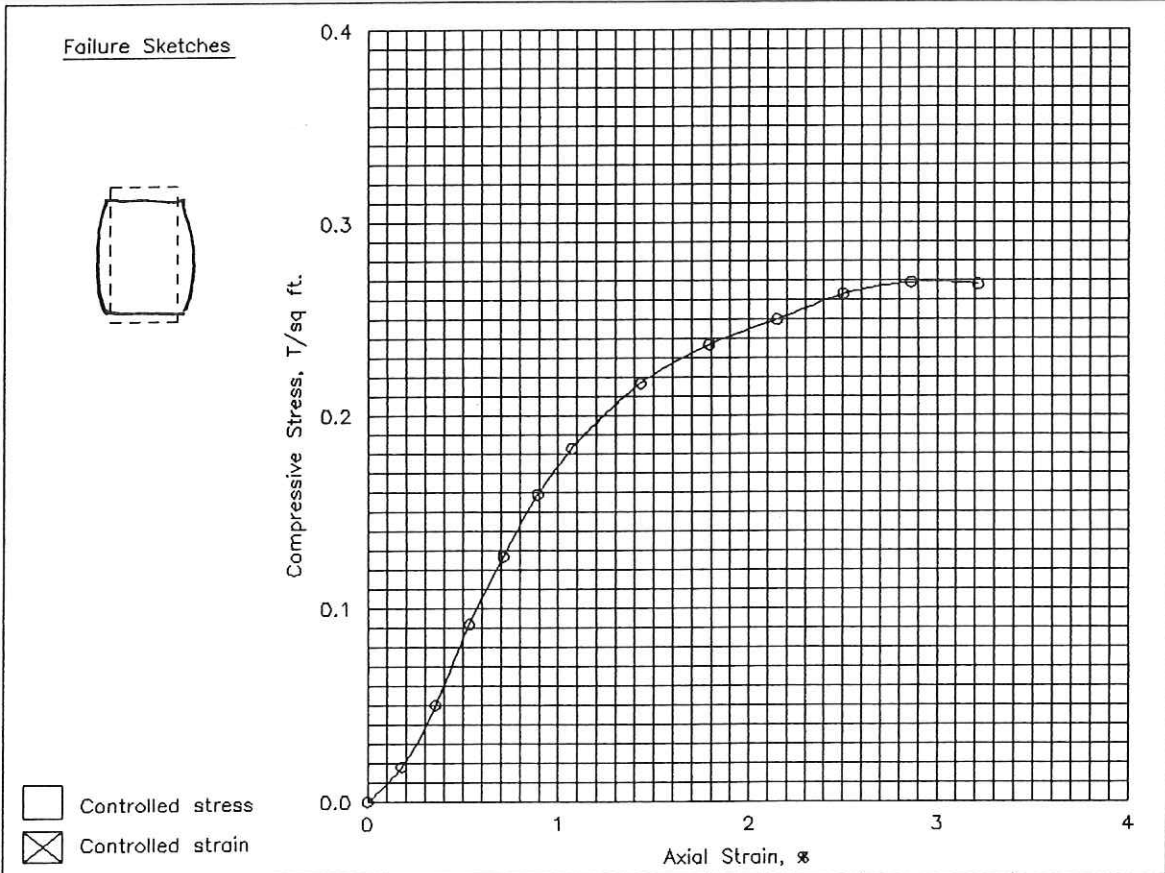
Yellowish Brown, Clay, Soft

Tare No.	P16	Height	5.595 in.
Tare plus Wet Specimen	492.44 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	347.21 gm	Initial Area	6.290 sq in.
Water Weight	145.23 gm	Volume	35.194 cu in.
Tare Weight	42.78 gm	Volume of Solids	cu in.
Wet Specimen	983.43 gm	Void Ratio	
Dry Specimen	665.80 gm	Saturation	%
Water Content	47.71 %	Dry Density	72.1 lb/cu ft
Specific Gravity of Solids			
LL = 58	PL = 24	PI = 34	

Proving Ring No. 10170

Proving Ring Constant, K = .311 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	1.6	.002	6.30	.018
.3	20.	.020	14.0	4.3	.004	6.31	.050
.5	30.	.030	26.0	8.1	.005	6.32	.092
.7	40.	.040	36.0	11.2	.007	6.34	.127
.9	50.	.050	45.0	14.0	.009	6.35	.159
1.0	60.	.060	52.0	16.2	.011	6.36	.183
1.4	80.	.080	62.0	19.3	.014	6.38	.217
1.7	100.	.100	68.0	21.1	.018	6.40	.237
2.0	120.	.120	72.0	22.4	.021	6.43	.250
2.4	140.	.140	76.0	23.6	.025	6.45	.263
2.7	160.	.160	78.0	24.2	.029	6.48	.269
3.0	180.	.180	78.0	24.2	.032	6.50	.268



Test No.		1			
Type of Specimen		Undisturbed			
Initial	Water content	$w_0$	47.7 %	%	%
	Void ratio	$e_0$			
	Saturation	$S_0$	%	%	%
	Dry density, lb/cu ft	$\gamma_d$	72.1		
Time to failure, min		$t_r$	2.67		
Unconfined compressive strength, T/sq ft		$q_u$	.27		
Undrained shear strength, T/sq ft		$S_u$	.13		
Sensitivity ratio		$S_t$			
Initial specimen diameter, in.		$D_0$	2.830		
Initial specimen height, in.		$H_0$	5.595		
Classification Yellowish Brown, Clay, Soft					
LL	58	PL	24	PI	34
		$G_s$			
Remarks		Project Brazos Island Harbor Project			
		Brownsville Shipchannel			
		Area Brownsville, Texas			
		Boring No. 92-122		Sample No. 4	
		Depth 6-8 ft		Date 4/1/93	
		UNCONFINED COMPRESSION TEST REPORT			