BORING NUMBER	SAMPLE NUMBER/ TYPE	SAMPLE DEPTH (Feet)	VISUAL CLASSIFICATION	U S C	MOISTURE CONTENT (%)	UNIT DRY WEIGHT (pcf)	UNIT WET WEIGHT (pcf)	SPECIFIC GRAVITY OF SOLIDS	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	BAR LINEAR SHRINKAGE (%)	ABBREVIATED MECHANICAL ANALYSIS	COMPLETE MECHANICAL ANALYSIS	HYDROMETER ANALYSIS	STANDARD COMPACTION TEST	MODIFIED COMPACTION TEST	UNDRAINED SHEAR STRENGTH (ksf)*	TORVANE SHEAR (ksf)	SOIL SALINITY (Parts per Thousand)
87-161	1J	0-0.5	Fill: Very stiff red clay, with calcareous nodules silt packets & organic matter	CH	19														
	2J	0.5-1	Fill: Very stiff red clay with silty fine sand partings	CH	15														
	3Q	4-5	Firm light gray silty clay, with sand pockets and calcareous nodules	CL	19	100			47	21		88					0.54		
	4J	8.5-9	Brown sandy silt	ML								69							
	5J	9.5-10	Olive gray sand, with shell fragments and calcareous nodules	SM								16							
	6J	11.5-12	Olive gray silty fine sand, with shell fragments	SM															
	7Q	14-15	Firm olive gray silty clay, with silt pockets & siltstone	CL	26	101			48	15		71					0.73		
	8Q	21-22	Stiff gray silty clay, with clay seams & partings and ferrous nodules	CL	26														
	9Q	24-25	Stiff red and light gray clay, with ferrous and calcareous nodules	CH	28	93			71	28		99					1.37		
	10J	29.5-30	Stiff red silty clay, with calcareous nodules	CL	22														
	11Q	31-32	Firm brown silty clay, with calcareous nodules	CL	24	102			26	16		93					0.53		
	12Q	34-35	Firm red sandy clay, with sand pockets	CL	21														
	13Q	39-40	Firm red silty clay, with silt stones	CL	20	110			25	17		97					0.92		
	14Q	43.5-44.5	Stiff red clay, with silt pockets and calcareous nodules	CH	30	96													
	15J	44.5-45	Very stiff red silty clay	CH	20														
	16J	49.5-50	Firm red silty clay, with calcareous nodules and partings	CL	29				36	20		98							
	17Q	54-55	Very stiff red clay, with silt seams	CH	30	92			72	25		100					2.12	3.76	
	18Q	59-60	Very stiff red clay, with silt partings and ferrous nodules	CH	37														
	19Q	64-65	Very stiff gray clay	CH	47	77			83	26		97					2.32	2.18	
	20Q	69-70	Firm olive gray clay, with ferrous nodules	CH	53														
	21Q	74-75	Stiff gray clay, platey, with organic material	CH	50	62			84	27		93					1.53		
	22Q	79-80	Stiff gray clay, with ferrous nodules	CH	31														
			CONTINUED																

* Based on Unconfined Compression Test

SUMMARY OF TEST RESULTS
DELIVERY ORDER NO. 0023
SNAKE ISLAND DISPOSAL AREA
TEXAS CITY, TEXAS

BORING NUMBER	SAMPLE NUMBER/ TYPE	SAMPLE DEPTH (Feet)	VISUAL CLASSIFICATION	U S C	MOISTURE CONTENT (%)	UNIT DRY WEIGHT (pcf)	UNIT WET WEIGHT (pcf)	SPECIFIC GRAVITY OF SOLIDS	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	BAR LINEAR SHRINKAGE (%)	ABBREVIATED MECHANICAL ANALYSIS	COMPLETE MECHANICAL ANALYSIS	HYDROMETER ANALYSIS	STANDARD COMPACTION TEST	MODIFIED COMPACTION TEST	UNDRAINED SHEAR STRENGTH (ksf)*	TORVANE SHEAR (ksf)	SOIL SALINITY (Parts per Thousand)
87-161	23Q	83-84	Stiff olive gray clay, with calcareous nodules and organic material	CH	29	94			75	22		93					1.83	3.26	
	24Q	89-90	Stiff gray and red clay, with shell fragments	CH	14														
	25Q	94-95	Stiff gray and red clay, slickensided, with sand partings and silt pockets	CH	32														
	26Q	99-100	Very stiff olive gray clay, with calcareous nodules	CH	33	91			84	24		97					1.49	3.16	
	27J	103.5-104	Firm sandy clay, with sand pockets and clay partings	CL								60							
	28J	109.5-110	Very soft olive gray silty clay, with sand pockets, calcareous nodules, & shell fragments	CL	25				35	14									

* Based on Unconfined Compression Test

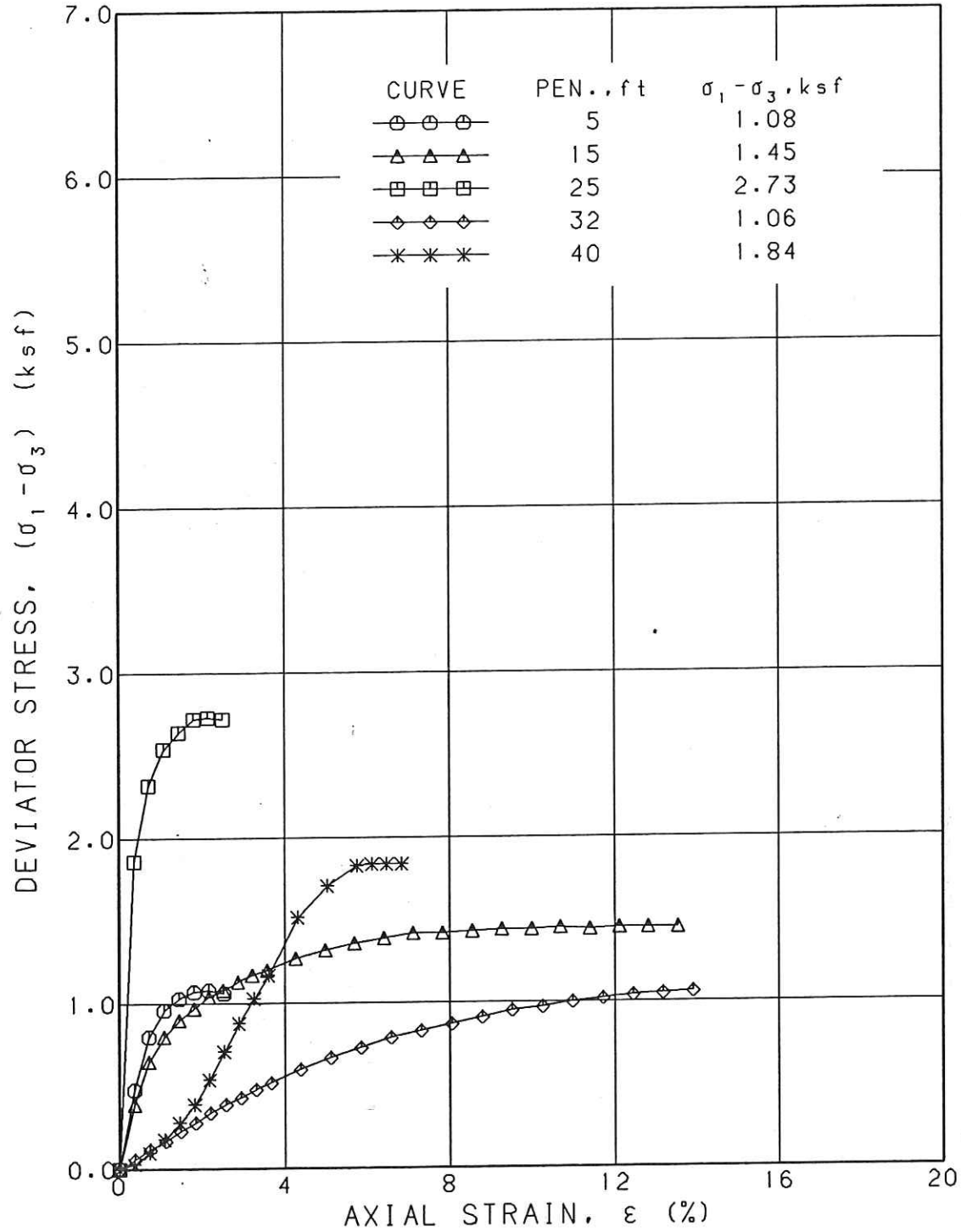
SUMMARY OF TEST RESULTS
DELIVERY ORDER No. 0023
SNAKE ISLAND DISPOSAL AREA
TEXAS CITY, TEXAS

McCLELLAND ENGINEERS

PLATE 22

Boring Number	Sample Number	Depth, ft	Weight of Dry Soil gms (Total Sample)	Percent Finer				
				0.375	#4	#10	#40	#200
87-160	48	108	116.84			100	99	64
87-161	3	5	64.15	100	99	98	96	88
87-161	4	9	88.38				100	69
87-161	5	10	90.08	100	79	65	59	16
87-161	7	15	75.55				100	71
87-161	9	25	44.68				100	99
87-161	11	32	79.30			100	97	93
87-161	13	40	114.42				100	97
87-161	16	50	79.39		100	99	99	98
87-161	17	55	34.49					100
87-161	19	65	32.63			100	99	97
87-161	21	75	45.74			100	98	93
87-161	23	84	52.12				100	93
87-161	26	100	41.17				100	97
87-161	27	104	90.28				100	60
87-162	2	3	54.96			100	98	92
87-162	4	5	45.58	100	99	99	98	97
87-162	6	10	68.04			100	99	35
87-162	8	16	52.98	100	99	98	96	74
87-162	10	19	118.35				100	80
87-162	12	24	41.15				100	99
87-162	16	32	57.55				100	96
87-181	2	4	58.48				100	59
87-181	4	8	51.74			100	99	86

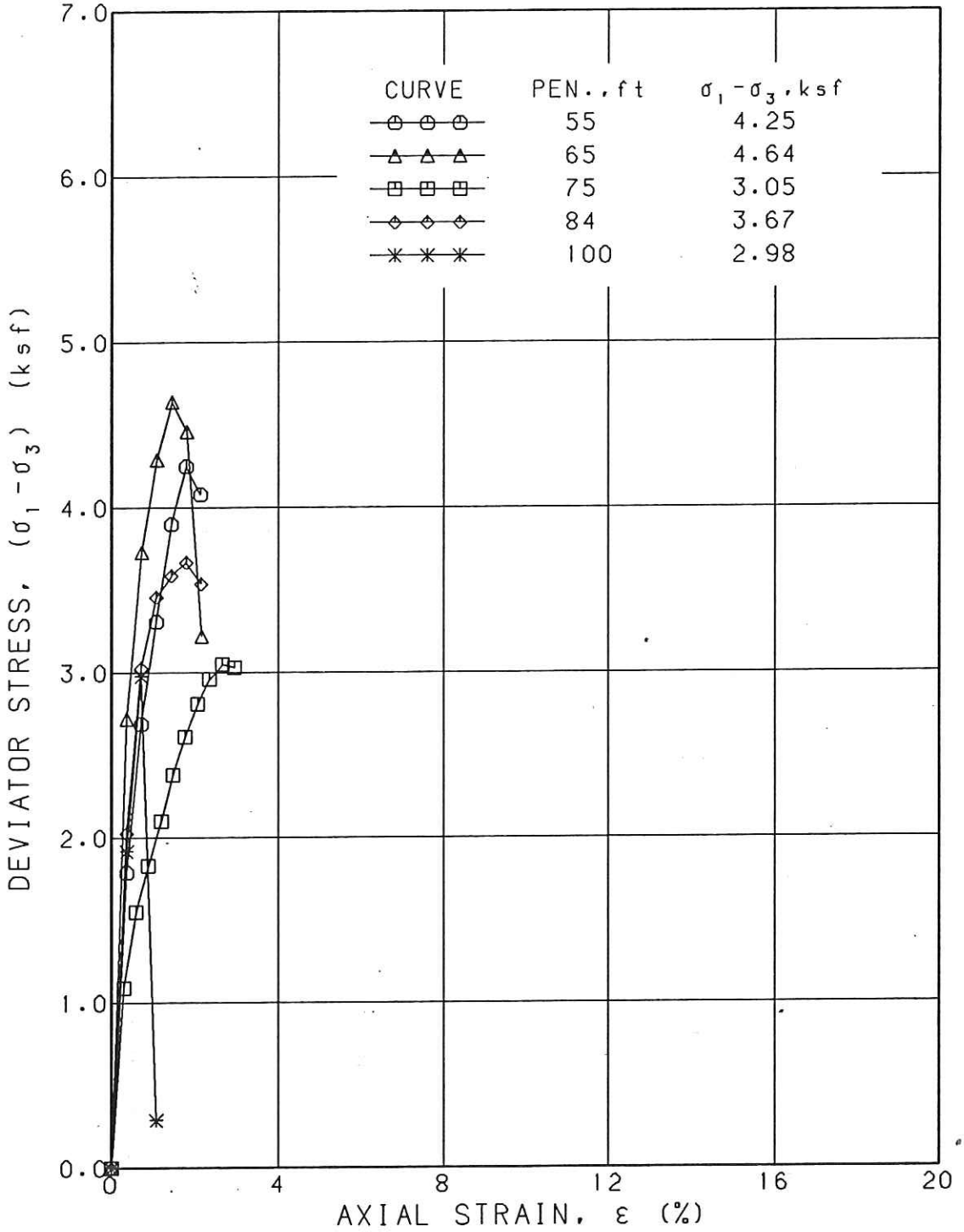
RESULTS OF ABBREVIATED SIEVE ANALYSES



STRESS-STRAIN CURVES
UNCOFINED COMPRESSION TEST
BORING 87-161

McCLELLAND ENGINEERS

PLATE 56



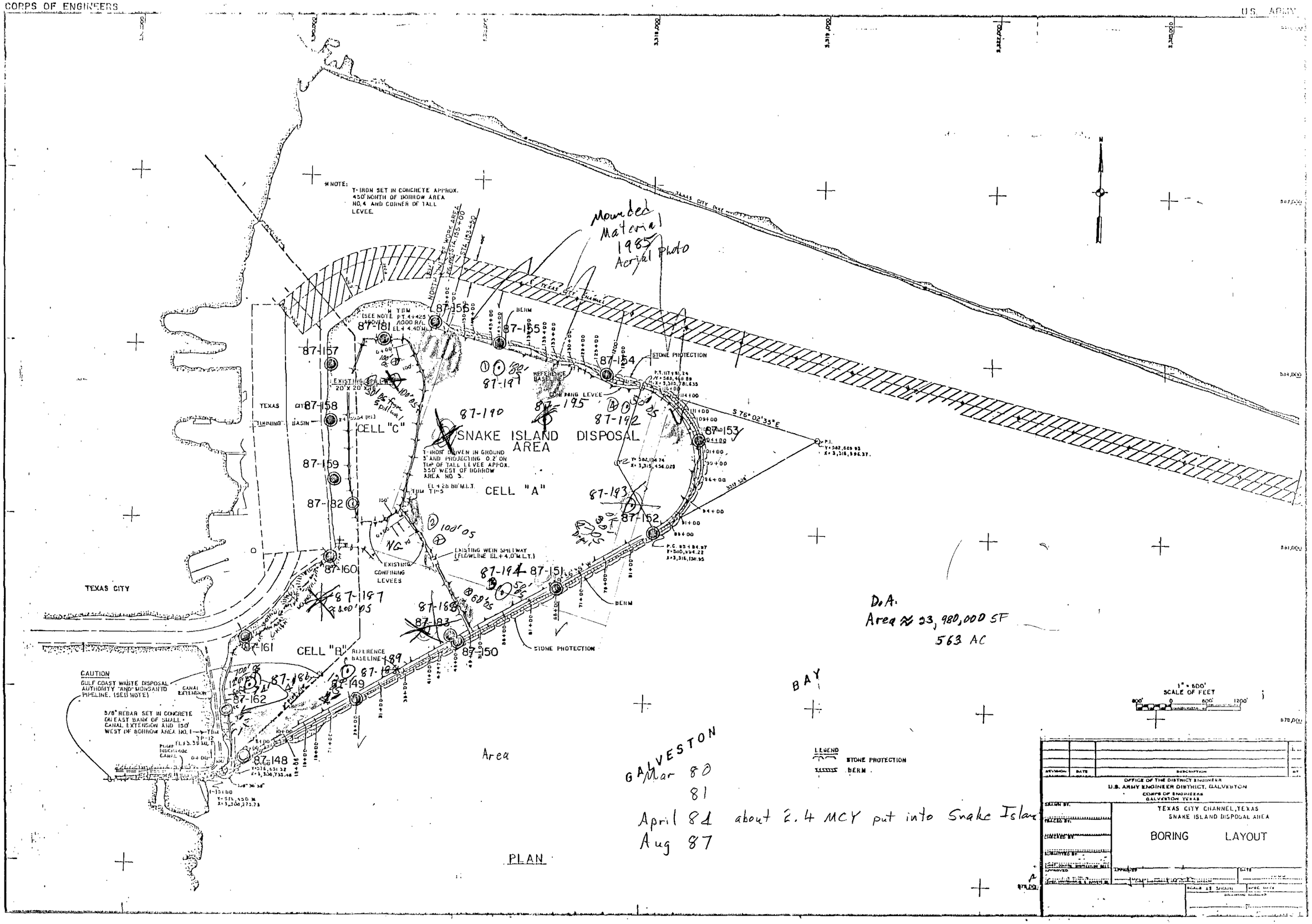
STRESS-STRAIN CURVES
UNCONFINED COMPRESSION TEST
BORING 87-161

McCLELLAND ENGINEERS

PLATE 57

CORPS OF ENGINEERS

U.S. ARMY



D.A.
Area ≈ 23,980,000 SF
563 AC

Mar 80
81
April 81 about 2.4 MCY put into Snake Isla
Aug 87

OFFICE OF THE DISTRICT ENGINEER
U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON TEXAS

TEXAS CITY CHANNEL, TEXAS
SNAKE ISLAND DISPOSAL AREA

BORING LAYOUT