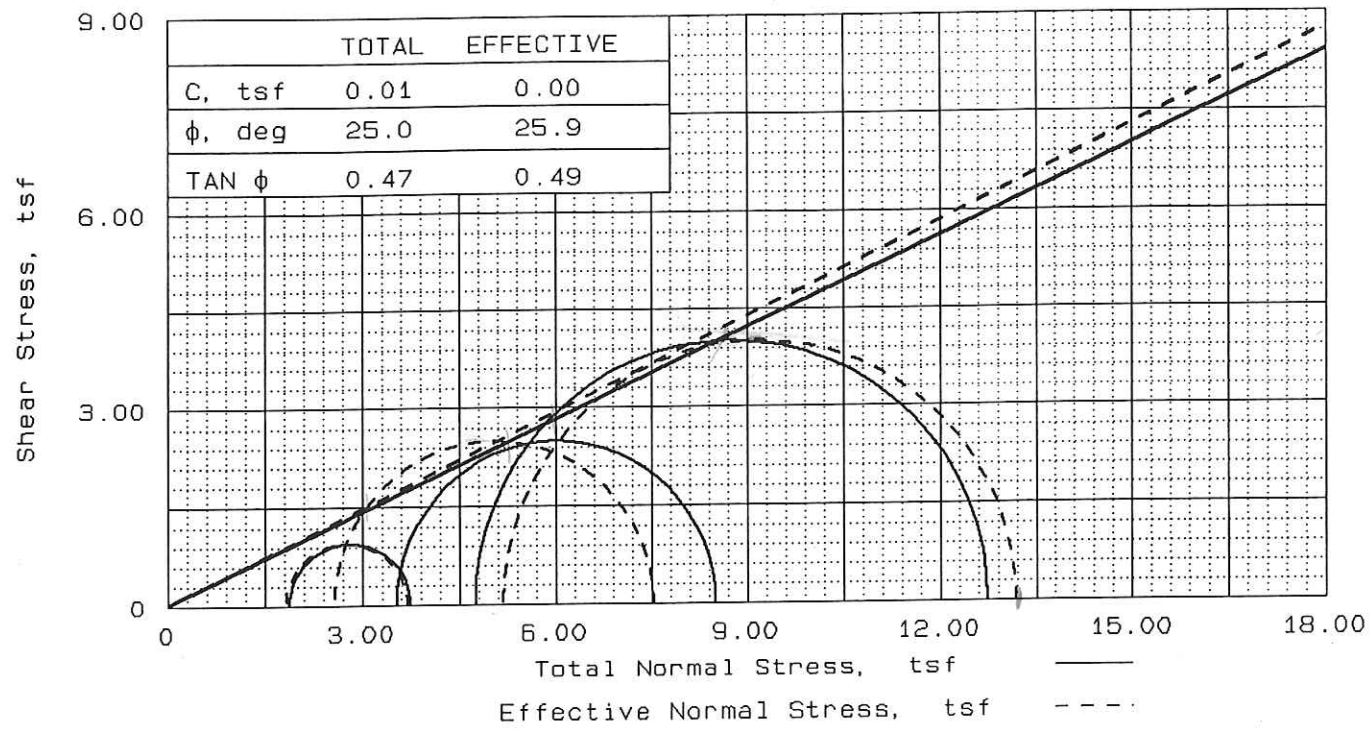
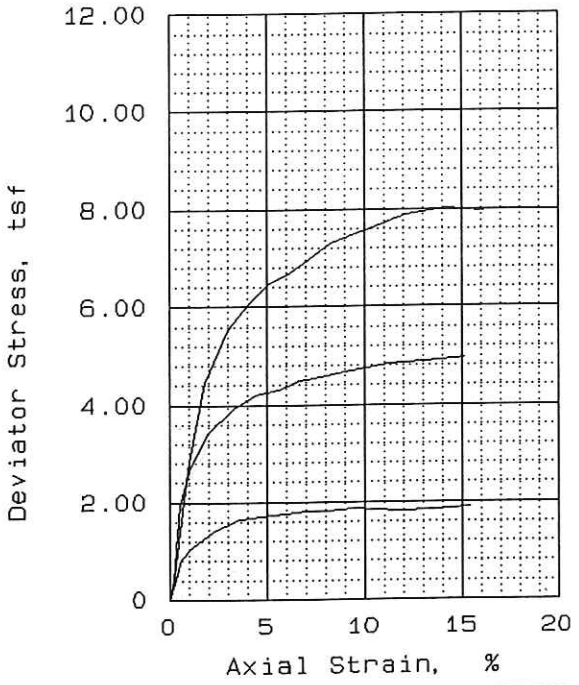




SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	23.6	18.8	17.3
	DRY DENSITY, pcf	101.6	110.6	110.4
	SATURATION, %	97.9	98.4	90.0
	VOID RATIO	0.647	0.512	0.516
	DIAMETER, in	1.32	1.39	1.37
	HEIGHT, in	2.93	2.97	3.03
AT TEST	WATER CONTENT, %	22.5	16.9	16.9
	DRY DENSITY, pcf	104.3	115.2	115.1
	SATURATION, %	100.0	100.0	100.0
	VOID RATIO	0.603	0.453	0.454
	DIAMETER, in	1.31	1.37	1.34
	HEIGHT, in	2.90	2.95	3.04
BACK PRESSURE, tsf		7.42	7.34	6.84
CELL PRESSURE, tsf		9.29	10.87	11.59
FAILURE STRESS, tsf		1.87	4.97	8.01
PORE PRESSURE, tsf		7.47	8.32	6.41
STRAIN RATE, %/min.		0.050	0.050	0.050
ULTIMATE STRESS, tsf				
PORE PRESSURE, tsf				
$\bar{\sigma}_1$ FAILURE, tsf		3.70	7.53	13.19
$\bar{\sigma}_3$ FAILURE, tsf		1.82	2.56	5.18

TYPE OF TEST:
CU with pore pressures
SAMPLE TYPE: UNDISTURBED
DESCRIPTION: SANDY LEAN CLAY (CL)
LL= 31 PL= 12 PI= 19.0
SPECIFIC GRAVITY= 2.68
REMARKS: SPECIFIC GRAVITY ESTIMATED

FIG. NO.

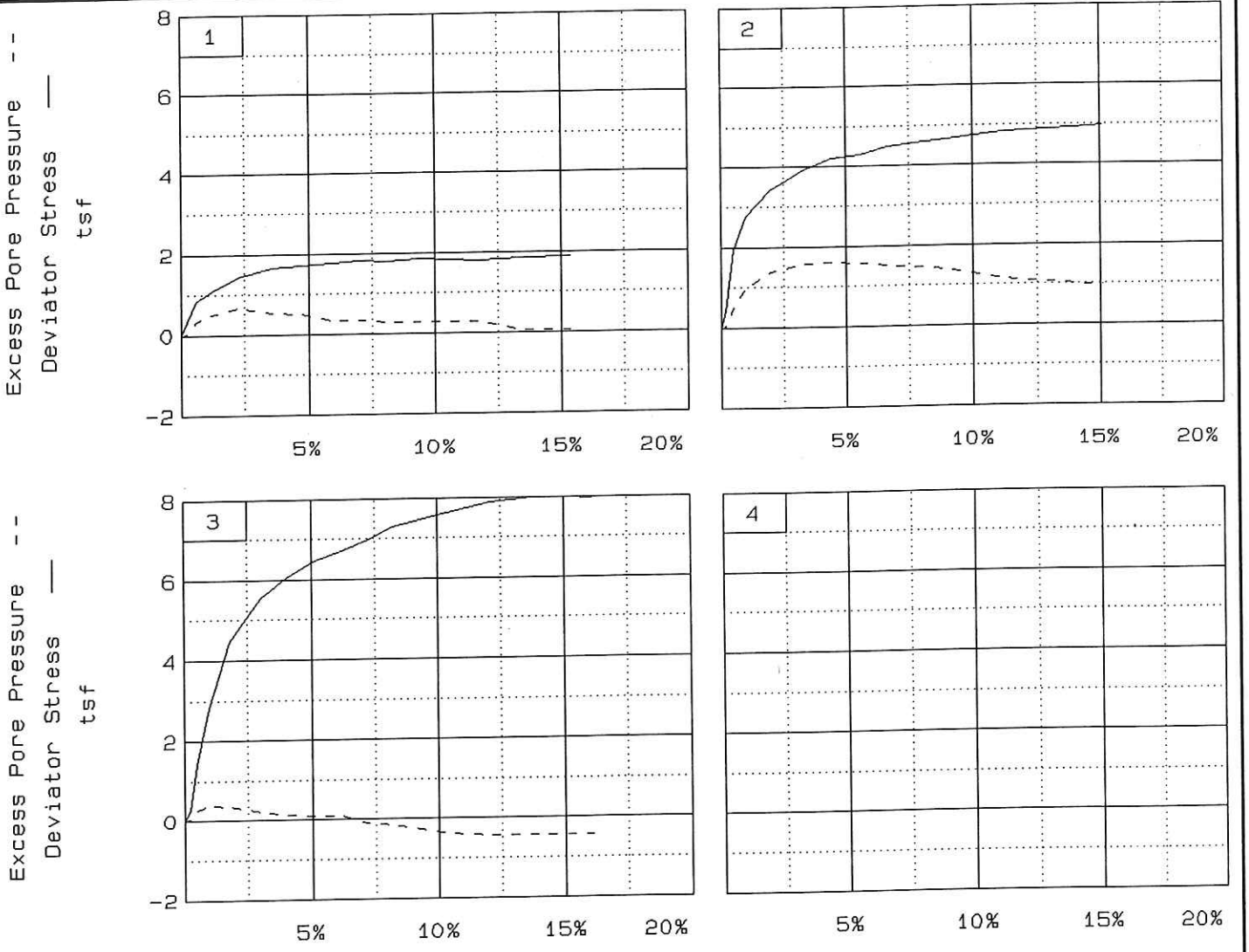
CLIENT: US ARMY CORPS OF ENGINEERS
GALVESTON DISTRICT
PROJECT: BRAYS BAYOU - FLOOD PROTECTION

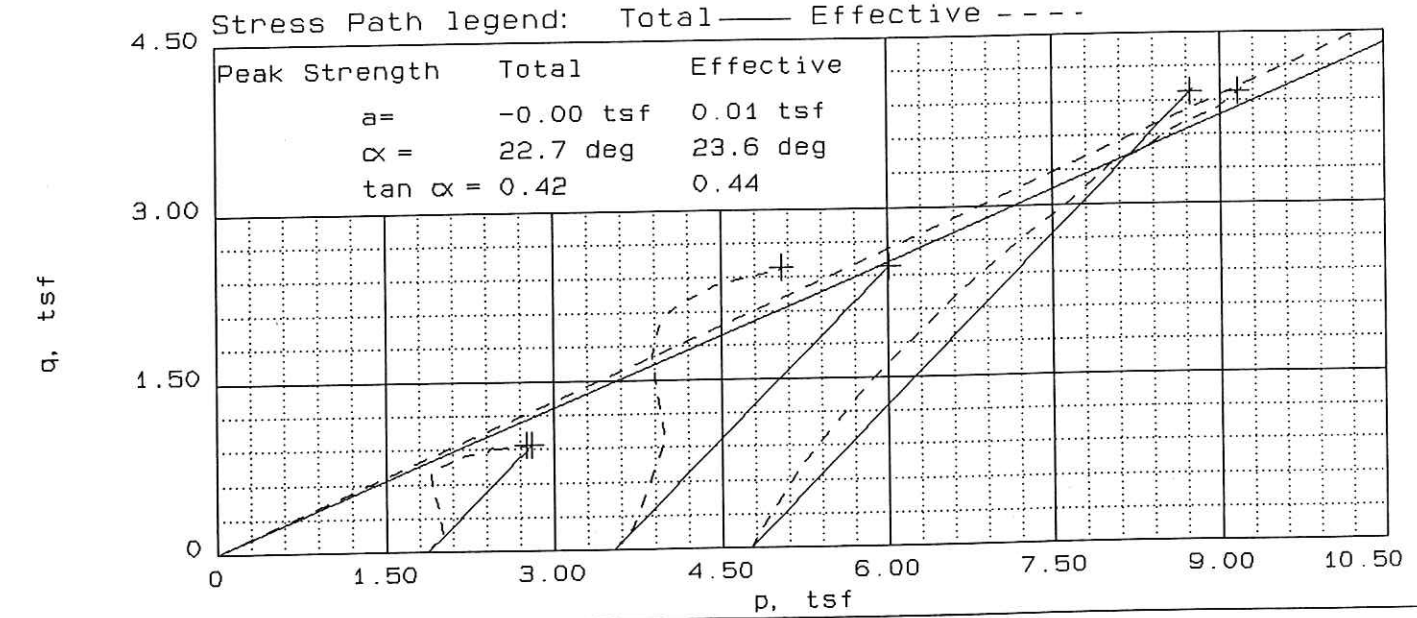
SAMPLE LOCATION: BORING: 92-138, ST-5
8.0'-10.0', SWD LAB NO. 92/3296

PROJ. NO.: 15625 DATE: SEPT 1992

TRIAXIAL COMPRESSION TEST

CORPS OF ENGINEERS - SOUTHWESTERN



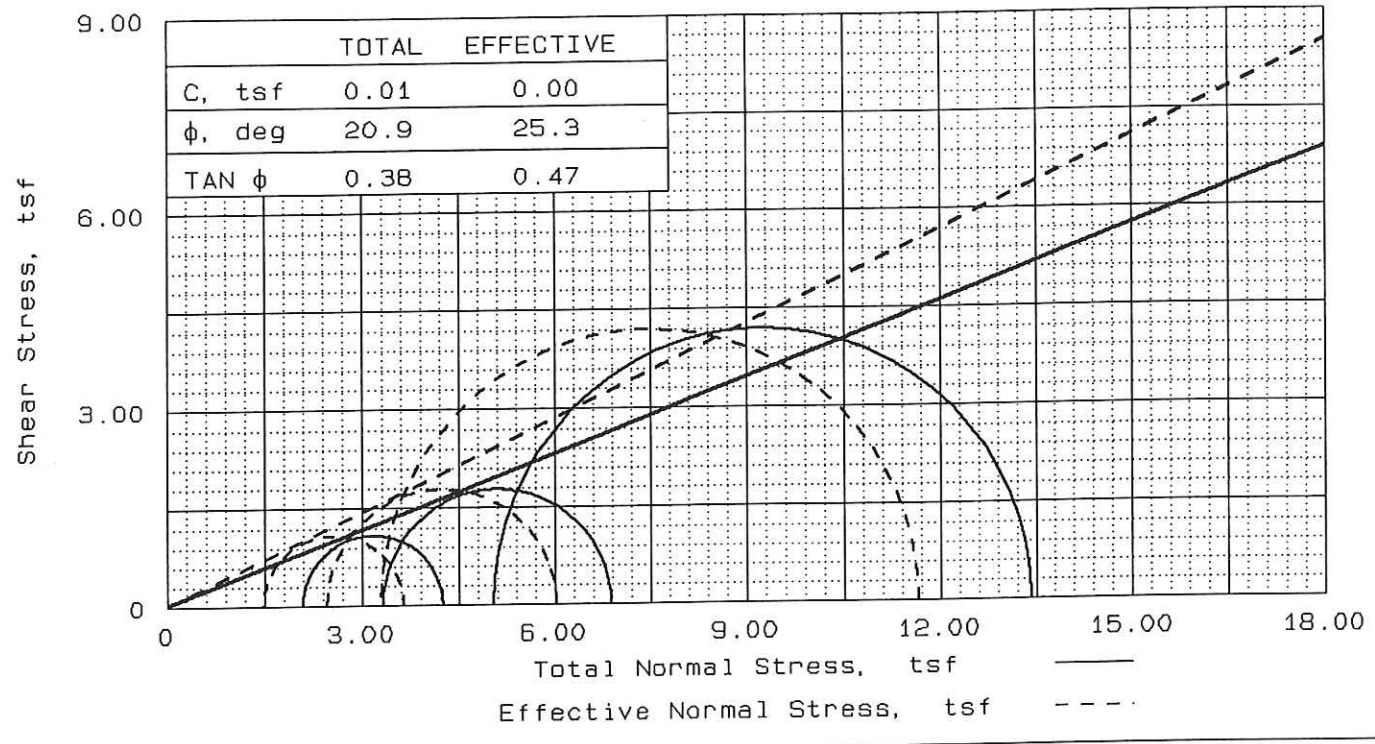


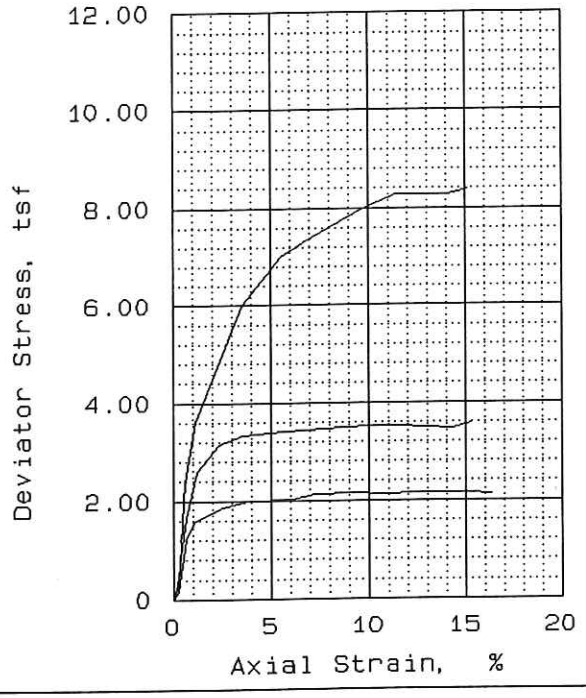
Client: US ARMY CORPS OF ENGINEERS GALVESTON DISTRICT

Project: BRAYS BAYOU - FLOOD PROTECTION

Location: BORING: 92-138, ST-5 8.0'-10.0', SWD LAB NO. 92/3296

File: 3296RBAR Project No.: 15625 Page 2/2 Fig. No. ——





SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	19.9	19.0	20.4
	DRY DENSITY, pcf	105.3	107.6	105.9
	SATURATION, %	90.3	91.9	94.1
	VOID RATIO	0.589	0.555	0.580
	DIAMETER, in	1.38	1.38	1.38
	HEIGHT, in	2.95	3.03	2.93
AT TEST	WATER CONTENT, %	21.6	20.4	18.0
	DRY DENSITY, pcf	105.9	108.3	112.9
	SATURATION, %	100.0	100.0	100.0
	VOID RATIO	0.580	0.546	0.482
	DIAMETER, in	1.43	1.40	1.35
	HEIGHT, in	2.76	2.93	2.90
BACK PRESSURE, tsf		7.34	7.70	5.33
CELL PRESSURE, tsf		9.43	11.02	10.37
FAILURE STRESS, tsf		2.16	3.56	8.39
PORE PRESSURE, tsf		7.96	8.56	7.08
STRAIN RATE, %/min.		0.050	0.050	0.050
ULTIMATE STRESS, tsf				
PORE PRESSURE, tsf				
$\bar{\sigma}_1$ FAILURE, tsf		3.63	6.02	11.67
$\bar{\sigma}_3$ FAILURE, tsf		1.48	2.46	3.28

TYPE OF TEST:
CU with pore pressures
SAMPLE TYPE: UNDISTURBED
DESCRIPTION: LEAN CLAY WITH SAND (CL)
LL= 36 PL= 12 PI= 24.0
SPECIFIC GRAVITY= 2.68
REMARKS: SPECIFIC GRAVITY ESTIMATED

FIG. NO.

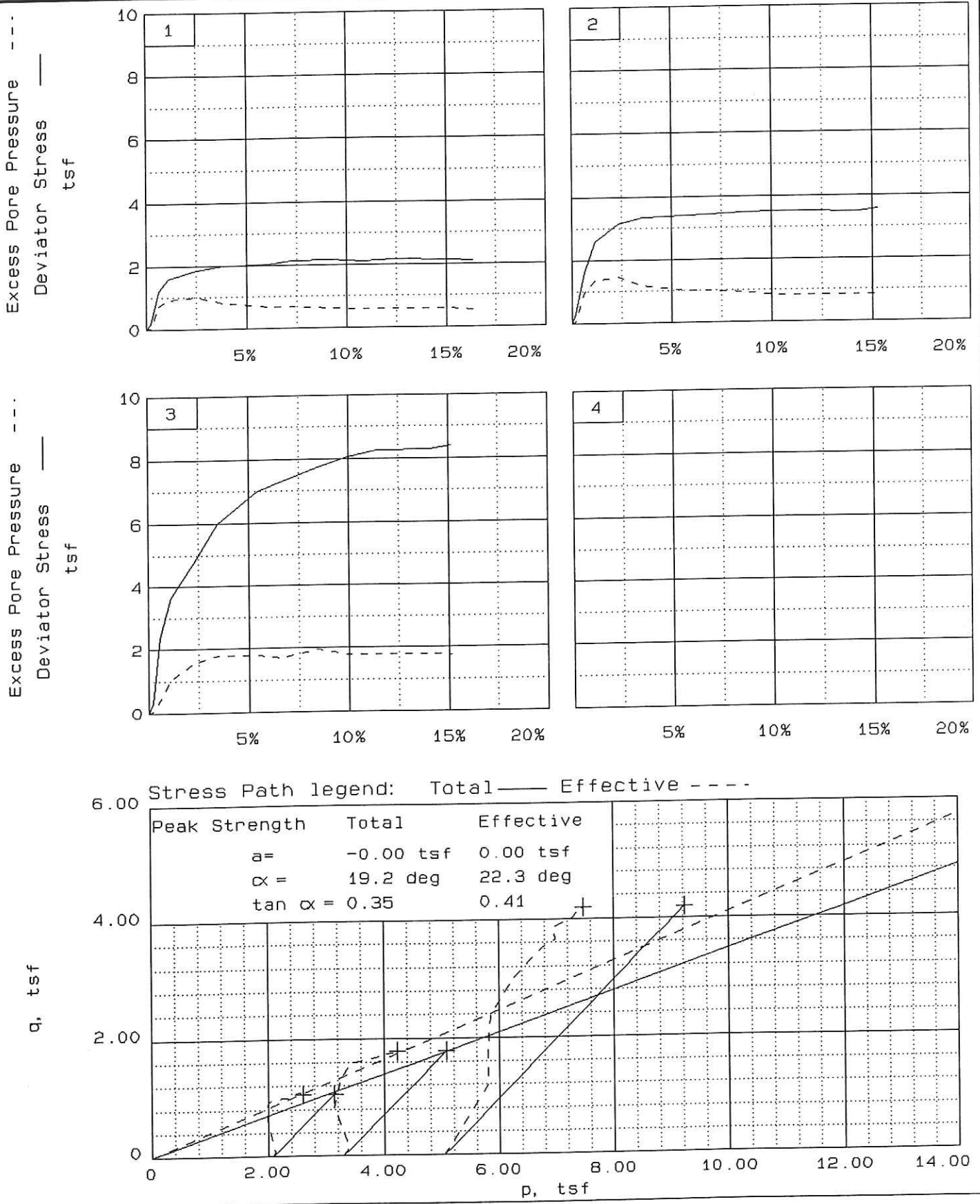
CLIENT: US ARMY CORPS OF ENGINEERS
GALVESTON DISTRICT
PROJECT: BRAYS BAYOU - FLOOD PROTECTION

SAMPLE LOCATION: BORING: 92-138, ST-13
26.0'-28.0', SWD LAB NO. 92/3298

PROJ. NO.: 15625 DATE: SEPT 1992

TRIAXIAL COMPRESSION TEST

CORPS OF ENGINEERS - SOUTHWESTERN

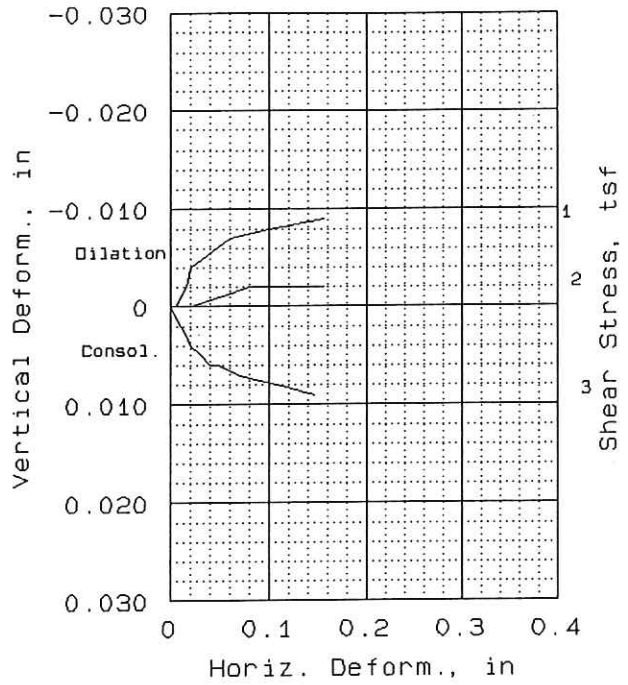


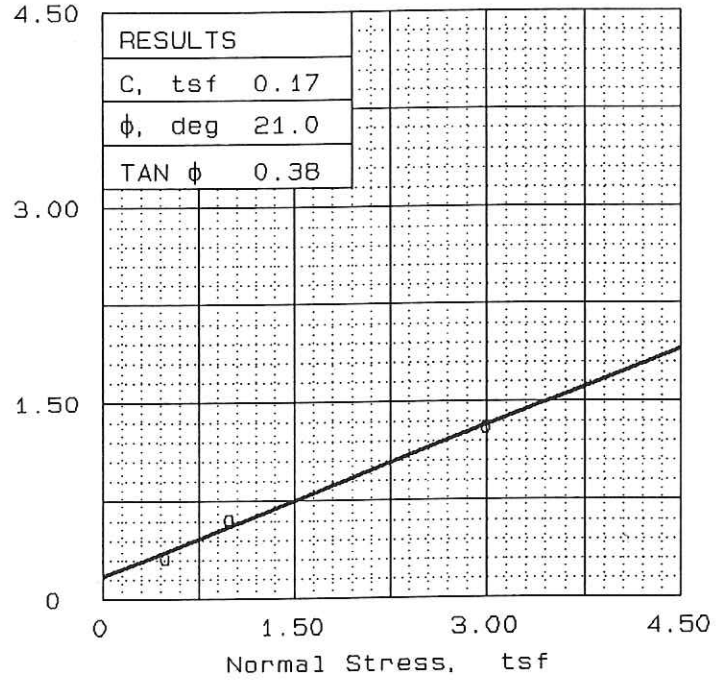
Client: US ARMY CORPS OF ENGINEERS GALVESTON DISTRICT

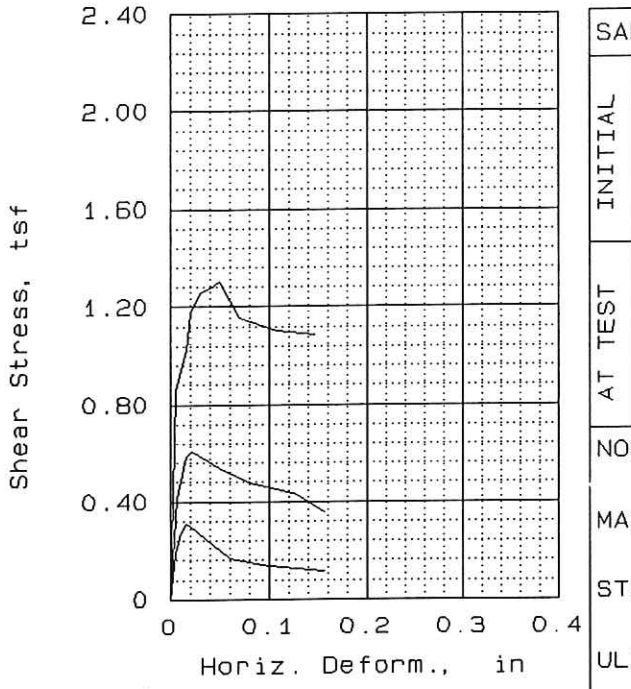
Project: BRAYS BAYOU - FLOOD PROTECTION

Location: BORING: 92-138, ST-13 26.0'-28.0', SWD LAB NO. 92/3298

File: 3298RBAR Project No.: 15625 Page 2/2 Fig. No. ——







SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	23.0	25.1	25.3
	DRY DENSITY, pcf	100.7	98.8	99.1
	SATURATION, %	93.1	97.1	98.6
	VOID RATIO	0.661	0.694	0.688
	DIAMETER, in	2.51	2.51	2.51
	HEIGHT, in	1.00	1.00	1.00
AT TEST	WATER CONTENT, %	24.7	26.0	25.8
	DRY DENSITY, pcf	101.4	99.5	101.2
	SATURATION, %	101.9	102.1	105.9
	VOID RATIO	0.650	0.682	0.654
	DIAMETER, in	2.51	2.51	2.51
	HEIGHT, in	0.99	0.99	0.98
NORMAL STRESS, tsf		0.50	1.00	3.00
MAX. SHEAR, tsf		0.31	0.61	1.30
STRAIN RATE, %/min.		0.004	0.004	0.004
ULT. SHEAR, tsf				

SAMPLE DATA

SAMPLE TYPE: UNDISTURBED

DESCRIPTION: FAT CLAY WITH SAND (CH)

LL= 64 PL= 23 PI= 41.0

SPECIFIC GRAVITY= 2.68

REMARKS: SPECIFIC GRAVITY ESTIMATED

FIG. NO.

CLIENT: US ARMY CORPS OF ENGINEERS
GALVESTON DISTRICT

PROJECT: BRAYS BAYOU - FLOOD PROTECTION

SAMPLE LOCATION: BORING: 92-138, ST-9
18.0'-20.0', SWD LAB NO. 92/3297

PROJ. NO.: 15625 DATE: SEPT 1992

DIRECT SHEAR TEST

CORPS OF ENGINEERS - SOUTHWESTERN