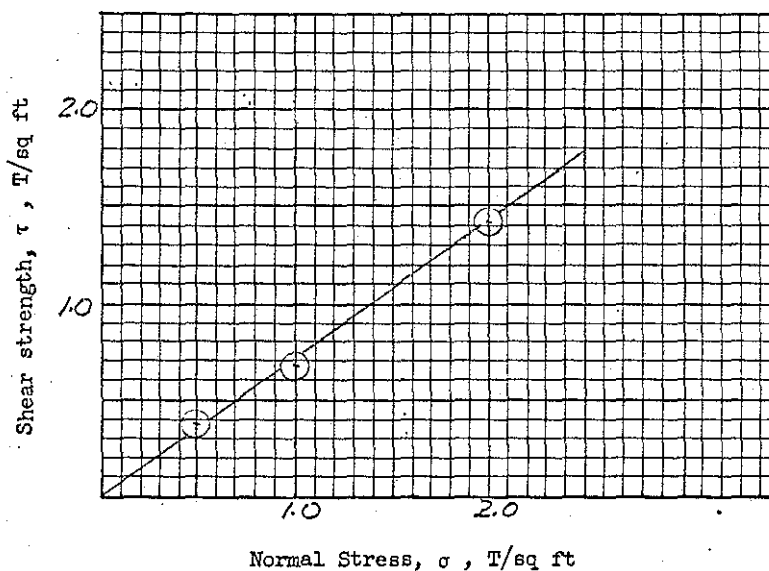
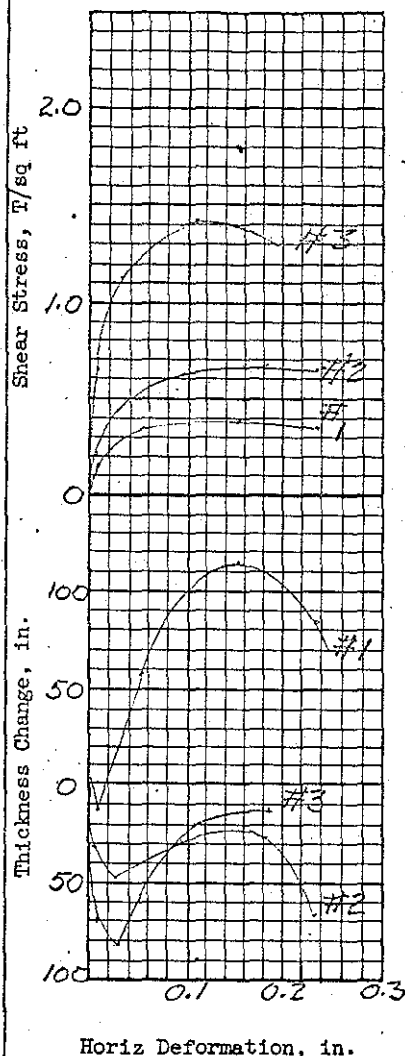


DRILLING LOG		DIVISION Southwestern		INSTALLATION Galv Dist, Eng Div		SHEET OF SHEETS	
1. PROJECT Neches River - Channel to Evadale				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY U. S. Army Corps of Engineers				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)		3ST-1		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 4 Jars	
5. NAME OF DRILLER Curtis				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER		16. DATE HOLE 28 Feb	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE		COMPLETED 28 Feb 1966	
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING %			
9. TOTAL DEPTH OF HOLE 19.5				19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	3.5		Brown gray sand clay, med			Jar 1	
3.5	5.0		Brown gray sand, fine on bottom gray sand			Jar 2	
5.0	10.0		Gray fine sand			Jar 3	
10.0	19.5		Gray brown fine sand Sample was collected from runs of chip auger, unable to go further w/hand auger			Jar 4	
			BOTTOMED				
			Water -2.4'				
			Caved in -4.9				



Test No.		1	2	3	
Initial	Water content	w_o	%	%	%
	Void ratio	e_o			
	Saturation	S_o	%	%	%
	Dry density lb/cu ft	γ_d	108	111	103
Void ratio after consolidation		e_c			
Time for 50% consolidation, min		t_{50}			
Final	Water content	w_f	%	%	%
	Void ratio	e_f			
	Saturation	S_f	%	%	%
Actual time to failure, min.		t_f	260	425	380
Normal stress T/sq ft		σ	0.5	1.0	2.0
Maximum shear strength, T/sq ft		τ	0.38	0.68	1.42

Shear Values

$$\phi' = 35.38$$

$$\tan \phi' = 0.710$$

$$c' = 0.0$$

Test Type (Check One)

☐ Controlled, stress

☒ Controlled, strain

Type of Specimen	Remolded	3	in. Square	0.75	in. Thickness
Classification	Gray silty sand (sm-sp)				
LL	N-P	PL	PI	D_{10}	
Remarks	Composite sample from holes 3ST-1 & 3ST-5		Project Neches River channel to Evadale		
	sample puddled in shear box		Area		
			Boring No.	Sample No.	
			Depth 5-30	Date May 1966	
DIRECT SHEAR TEST REPORT					

Plate 1

LOCATION: Channel to Evadale

TEST DATA SUMMARY

DATE DRILLED 28 Feb 1966

KEY:	CONSISTENCY -- COHESIVE SOILS						CONSISTENCY -- COHESIONLESS SOILS				
	VS	S	M	ST	VST	H	VL	L	M	D	VD
	Very Soft	Soft	Medium	Stiff	Very Stiff	Hard	Very Loose	Loose	Medium	Dense	Very Dense

(1) Tons/Sq.Ft. Unconfined Compressive Strength
(2) Split Barrel Sampler
(3) Acc. Wt. Rtn'd $\div$ Init. Wt. $\times 100 = \%$ Rtn'd.

BORING NO. 2.57-