Galveston Dist. Lib. Report No. 1013

BUFFALO BAYOU, TEXAS

WHITE OAK BAYOU
PROPOSED ALIGNMENT

SCALE OF FEET

100' 0 100'

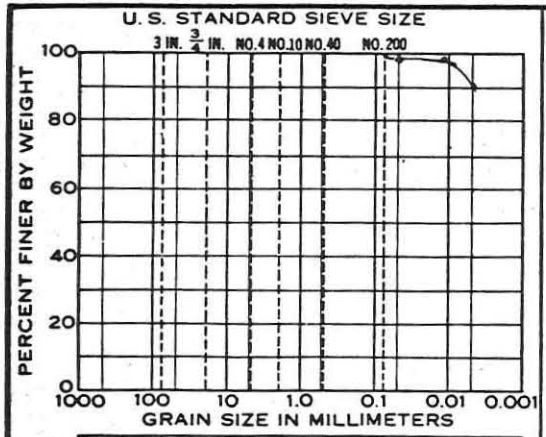
U.S. ARMY ENGINEER DISTRICT, GALVESTON, TEXAS APRIL 1963

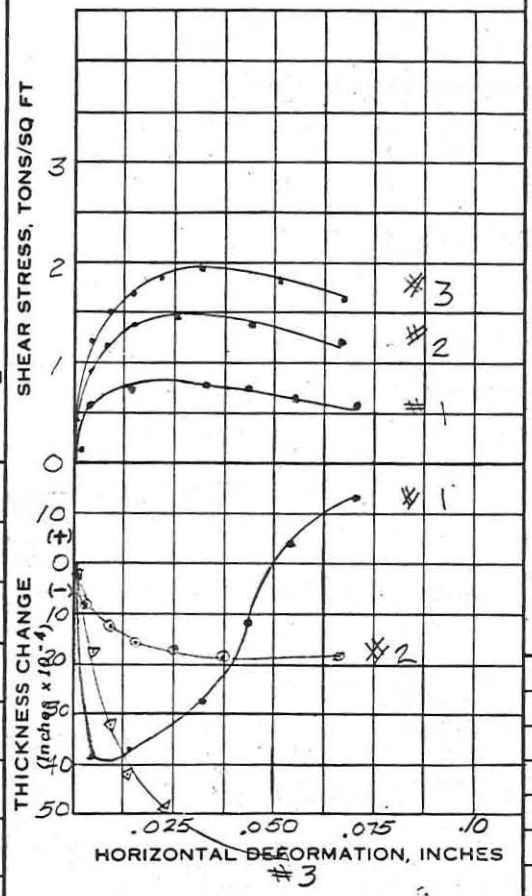
TO ACCOMPANY GENERAL DESIGN MEMORANDUM NO. 1 BUFFALO AND WHITE OAK BAYOUS AND WHITE OAK BAYOU FEATURE DESIGN MEMORANDUM NO. 2, MILE 1.07 TO YALE STREET DATED: APRIL 1963

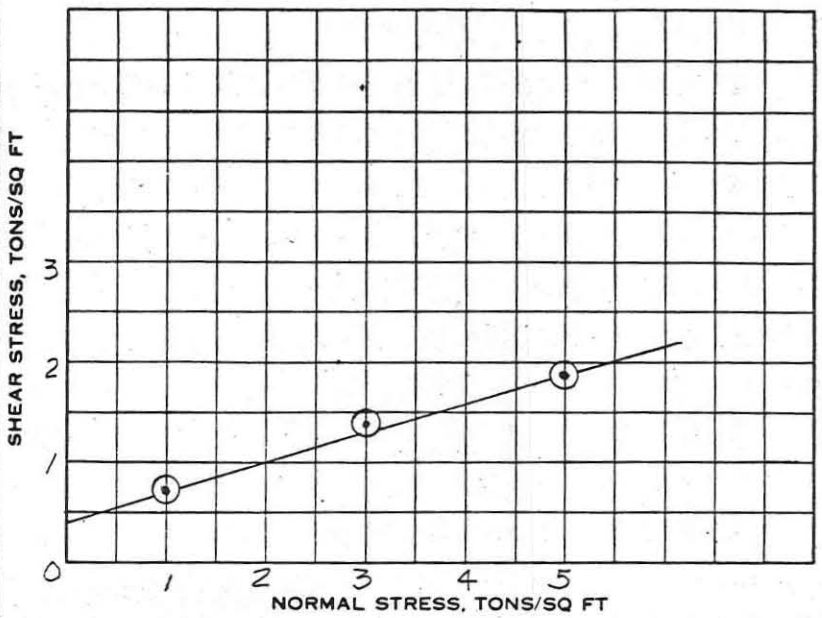
FILE: HSC 402-133

Sheet 4 of 7

PLATE 59







Classification: Brown clay (CH)

LL	67.8	G	
PL	27.4	D_{10}	

Test No.	1	2	3
Initial Water Content, W_0 %	32	32	32
Dry Density Lbs/Cu Ft	89.8	89.1	95.5
Void Ratio, e_0			
Saturation, S_0 %			
Duration of Test (Min)	70	75	100
WC after Test, W_f %	33.7	32.3	30.7
Normal Stress, σ T/Sq Ft	1	3	5
Max. Shear Stress, τ T/Sq Ft	.70	1.46	1.97

Type of Test: strain – Control; Rate .001 in/min; ~~Consolidated~~ Drained

Type of Specimen: undisturbed; 3 in. square; .75 in. thickness

SHEAR VALUES	ø	TAN ø	C, T/SQ FT
Maximum	17.6°	.317	.4
Ultimate			

Remarks:

Project: WHITE OAK

Area

Boring No. 6ST - 157 Sample No. 64-5930

Elev or Depth 39 ½ - 40 ½ Date July 64

DIRECT SHEAR TEST REPORT

Plate No. 3 DLR 10/3

ENG FORM 1 FEB 58 2092 (TRANSLUCENT) (EM 1110-2-1803)

White Oak Bayou LOG OF BORING NO. 6 ST - 157

TYPE: 6 in. Shelby Tube LOCATION:

DEPTH FT.	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT.	UNIT DRY WT. LBS./CU. FT.
			SURF. EL:		
	CL		BROWN, RED, GRAY CLAY V/STIFF L.S.=10.0 0-0-100		9 C
	SC		Light Brown clayey sand L.S=6.0 0-50-50		
5	CL		RED, BROWN, GRAY VAR. CLAY W/SAND L.S=9.0 STIFF 0-30-70		10 2
	CH		RED GRAY VAR. CLAY W/CAL. NODS. 10°-12° V/STIFF-STIFF L.S=19.0 0-4-96		10 1
15	CL		BROWN CLAY L.S.=7.0 0-5-95		10 3
	CH		BROWN CLAY L.S.=18.5 0-0-100	24	
			L.S=0.0 0-15-85		9 9
20	ML		BROWN SANDY SILT	9	
25					
30					
	CL		L.S=12.0 15-16-69 BROWN GRAY VAR. CLAY W/SANDSTONE 30°-32°	26	
35	ML		BROWN SANDY SILT L.S.=2.0 0-44-56	34	
	CH		BROWN CLAY V/STIFF L.S.=22.0 0-0-100		92
40					
45					
50					

POCKET PENETROMETER TONS / SQ. FT.
0.5 1.0 1.5 2.0 2.5 3.0

PLASTIC LIMIT — WATER CONTENT, % — LIQUID LIMIT
10 20 30 40 50 60

ELEVATION FT

4.0
4.25
4.0
3.5

COMPLETION DEPTH 40.0 ft. DEPTH TO WATER IN BORING 15.0 ft.
DATE DATE

SWN 266(C)
22 AUG 62