STA.	Y	X	ELEV.	DESCRIPTION
B-1	721,311.87	3,155,008.92	35.730	R.R. SPIKE
B-2	721,228.31	3,154,923.28	34.720	R.R. SPIKE
B-3	721,763.62	3,154,378.93	32.976	R.R. SPIKE
B-175	721,772.07	3,153,709.31	26.387	
B-176	721,418.27	3,153,680.90	40.329	R.R. SPIKE
B-177	721,325.12	3,154,102.72	35.397	
B-178	721,185.90	3,154,411.23	34.105	IRON PIN
B-179	721,164.46	3,154,591.31	33.359	
B-180	720,978.39	3,154,749.06		R.R. SPIKE
B-181	720,952.73	3,154,889.72	33.346	
B-182	721,049.47	3,155,027.90	33.749	IRON PIN
B-183	720,554.89	3,155,302.19	37.317	"X" ON CONC. BLK.
B-184	720,369.26	3,155,479.57	39.171	
B-185	720,874.21	3,155,497.56		
B-186	720,981.41	3,155,478.96		
B-187	721,034.10	3,155,285.11		R.R. SPIKE
B-188	721,169.13	3,155,248.43		R.R. SPIKE
STA-131	720,361.75	3,155,357.84		

Galveston Dist. Lab. Report No. 1013

BUFFALO BAYOU, TEXAS

WHITE OAK BAYOU PROPOSED ALIGNMENT

SCALE 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 6 of 7

PLATE 45

CORE BORINGS
WHITE OAK BAYOU, HOUSTON

Core Hole No.	Coordinates X	Coordinates Y	M.S.L. Elev.
6 St 26	3,155,165	720,440	37.60
27	3,155,450	720,370	39.3
28	3,155,275	720,465 ?	36.2
29	3,155,325	720,950	28.2
30	3,155,000	720,930	33.8
31	3,154,495	721,145	33.4
* 32	3,153,575	722,170	21.0
* 33	3,153,240	722,540	22.0
** 34	Never	drilled	
* 35	3,152,640	723,275	21.5
* 36	3,152,510	723,625	13.0
37	3,151,210	724,895	14.1
** 38			
39	3,150,300	725,020	31.6
** 40			
41	3,149,115	725,590	21.3
** 42			
** 43			
44	3,147,545	725,075	35.2
45	3,147,700	724,925	37.9
** 46	3,147,280	724,730	12.0
47	3,146,780	724,755	31.4
48	3,146,405	724,485	22.1
49	3,145,305	724,905	24.3
** 50	3,144,990	724,180	24.5
** 51	3,144,870	723,910	17.0
** 52			
** 53			
54	3,143,480	723,365	32.1
55	3,142,790	723,450	44.0
56	3,142,755	723,735	43.8
57	3,142,515	723,515	47.0
58	3,142,420	723,840	37.5
59	3,142,325	723,500	48.8
* 60			
61	3,141,890	724,290	43.8
62	3,141,750	724,970	47.9
63	3,140,570	725,070	51.0
64	3,140,200	725,465	50.5
65	3,138,940	725,205	49.0
66	3,137,960	726,015	50.5
67	3,137,385	726,500	46.2
68	3,130,375	734,185	61.5
69	3,126,995	738,435	69.9

* Core Holes covered up by fill material
** Core Holes not drilled

HOLE NO. 6ST-26

DEPARTMENT OF THE ARMY
DIVISION Southwestern
INSTALLATION Galv Dist, Eng Div

DRILLING LOG

1. PROJECT: White Oak Bayou
SHEET OF
2. LOCATION (Coordinates or Station): Pasadena, Texas (3,155,165 - 720,440)
3. DRILLING AGENCY: U. S. Army Corps of Engineers 130'R
4. HOLE NO. (As shown on drawing title and file No.): 6ST-26
5. NAME OF DRILLER: K. D. West
6. DIRECTION OF HOLE: ☐ VERTICAL ☒ INCLINED; DEGREES WITH VERTICAL
7. THICKNESS OF OVER-BURDEN: X
8. DEPTH DRILLED INTO ROCK: X
9. TOTAL DEPTH OF HOLE: 60.0
10. SIZE AND TYPE OF BIT: Shelby Tube
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MSL
12. MANUFACTURER'S DESIGNATION OF DRILL:
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED 8 Jars; UNDISTURBED 20 Cont
14. TOTAL NO. CORE BOXES:
15. ELEV. GROUND WATER: -0.4
16. DATE HOLE: STARTED 6/6/60; COMPLETED 6/6/60
17. ELEV. TOP OF HOLE: 37.6
18. TOTAL CORE RECOVERY FOR BORING (%):
19. SIGNATURE OF INSPECTOR: Bott. Elev. of Boring -22.4

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0	0.5		Shell, railroad	Lab		Jar 1	
0.5	4.0		Dark gray silty sand, w/glass rocks, bricks, fill (Sta. Hwy)	Shell		Jar 2 33.6	
4.0	11.0	SM	Silty sand, glass, fill	SM	w=12	Fines=26 Jar 3 26.6	
11.0	15.0		White fine sand, dry	SM	w=10	Jar 4 Fines=48	
15.0	18.0		White fine sand, dry			Jar 5 19.6	
18.0	20.0	CL	Gray-red sandy clay, plastic stiff	CL	w=24 γ=104	LL=29 Cont. 1 17.6	1.00
20.0	22.0		Gray-red beaumont clay, v/stiff	CH	w=22 γ=105	LL=58 Cont. 2 15.6	3.50
22.0	23.0	CH	Gray-red sandy clay, hard			Cont. 3	4.00
23.0	24.5		Gray-red Beaumont clay, hard		w=17	Cont. 4	4.50+
24.5	26.0	CL	Gray-red sandy clay, stiff	CL	γ=111	LL=35 Cont. 5	2.00
25.0	27.5		Gray-red sandy clay, stiff			Cont. 6	2.00
27.5	29.0		Gray-red clay, hard			Cont. 7 8.6	4.00
29.0	30.5	CH	Gray-red beaumont clay, hard	CH	w=21 γ=107	Cont. 8 LL=56	4.50+
30.5	32.0		Gray-red beaumont clay, hard			Cont. 9 5.6	4.50+
32.0	33.5		Gray-red silty clay, stiff	CL	w=20 γ=107	Cont. 10 LL=34	1.50
33.5	35.0	CL	Red silty clay, plastic, stiff			Cont. 11 2.6	1.00
35.0	36.5		Gray-red silty clay, plastic, stiff		w=18 γ=107	Gravelly Fines=65 Cont. 12	1.00
36.5	38.0		Red silty sand, soft	ML	w=26	Cont. 13 Fines=88	0.25
38.0	41.0	SM	Red silty sand, soft, water		γ=104	Jar 6 Sandy	
41.0	42.5		Red silty sand, soft			Jar 7 -4.9	
42.5	44.0	CH	Gray-red beaumont clay, hard	CH	w=23 γ=103	Cont. 14 LL=59	4.50
44.0	45.5		Red Beaumont clay, hard			Cont. 15 -7.9	4.00
45.5	47.0	CL	Red sandy clay, v/stiff	CL	w=21 γ=109	Cont. 16 LL=30	3.00
47.0	48.5		Red silty clay, hard			Cont 17 -10.9	4.50
48.5	50.0		Red clayey silt sand, lost	ML	w=23 γ=98	No sample Sandy Fines=25	
50.0	51.5	SM	Red clay silty sand, stiff			Cont. 18 -13.9	2.00
51.5	57.0		Red fine water sand, w/sandstone strata	SM	w=22	Fines=22 Jar 8 -19.4	
57.0	58.5	CL	Red silty clay, stiff	CL	w=22 γ=100	LL=35 Cont. 19 -20.9	1.50
58.5	60.0		Red silty clay, v/stiff,	CH	w=31 γ=91	LL=65 Cont. 20 -22.4	3.50

Bottomed in above at 60.0
Water at 38.0

White Oak Bayou
Channel Rectification
Houston, Texas

TEST DATA SUMMARY

Sheet 1 of 56

FEATURE Log of Soil Borings + 37.6

BORING NO.	SAMPLE NO.	DEPTH OR ELEV. OF SAMPLE	MECHANICAL ANALYSIS GRAVEL %	SAND %	FINES %	DK*	ATTERBERG LIMITS LL	PL	BAR L.S. %	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS./CU.FT.	LABORATORY CLASSIFICATION
65T-26	-60-	0.0										
	2591		No Tests			—					—	Shell
		0.5										
	2592		No Tests			—					—	Shell & Rubble
		4.0	12-19									
	2593		31	43	26	—			2.0	12.4	—	D, SiGrSa, w/fract. concrete
		11.0	0-0-52									
	2594		0	52	48	—			2.0	12.0	—	Bu, SiSa (SM)
		15.0								(10)		
	2595		Same as 60-2594			—				7.7	—	Bu, SiSa (SM)
		18.0										
	2596		0	4	96	1.75	29.2		5.0	23.6	104.3	G-Ru, Cl(CL), St.
		20.0										
	2597		2	3	95	3.0	52.8		17.0	21.8	105.0	R-Ru, Cl(CH) v/st. Calc.
		22.0										
	2598		0	10	90	4.5	35.1		11.0	16.8	112.3	R-G, Cl(CL), Hd, Calc. nod.
		23.0										
	2599		0	9	91	4.5+	35.0		11.0	13.7	116.9	Ru-G, Cl(CL), Hd, Calc.
		24.5								(19)		
	2600		0	19	81	2.25	27.2		7.0	16.7	111.2	Ru-G, Cl(CL), v/st.
		26.0										
	2601		Same as 60-2600			3.0				17.4	108.9	Ru-G, Cl(CL) v/st
		27.5										
	2602		0	2	98	3.75	41.6		15.0	18.8	106.9	R-G, Cl(CL) v/st. w/calc. nod.
		29.0										
	2603		0	0	100	4.5+	56.3		17.5	22.2	104.9	R-G, Cl(CH), Hd, w/Si lenses
		30.5								(20)		
	2604		Same as 60-2605			4.5+				18.8	109.5	R-G, Cl(CH), Hd, w/Si lenses
		32.0										
	2605		0	3	97	1.75	43.3		13.0	20.4	106.4	R, Cl(CL), St. w/calc. lenses
		33.5								(20)		
	2606		0	7	93	2.25	25.5		5.0	20.3	107.1	R, Cl(CL), v/st., Tr. Gr.
		35.0	19-9									
	2607		28	7	65	1.75			3.0	17.6	102.2	R, GrSi(ML)
		36.5										
	2608		0	2	98	2.50			2.0	22.2	104.3	R, Si(ML)
		38.0								(24)		
	2609		Same as 60-2610			—				25.4	—	R, SaSi(ML)
		41.0										
	2610		0	21	79	—			0.0	30.5	—	R, SaSi(ML)
		42.5										
	2611		0	1	99	4.5+	58.6		19.0	24.6	101.6	R, Cl(CH), Hd, w/Si pockets
		44.0								(23)		

* Laboratory Penetrometer Reading

DLR-853

SD FORM 25 AUG. 56 053-R

White Oak Bayou
Channel Rectification
HOUSTON, Texas

TEST DATA SUMMARY

FEATURE Log of Soil Borings

BORING NO.	SAMPLE NO.	DEPTH OR ELEV. OF SAMPLE	MECHANICAL ANALYSIS GRAVEL %	SAND %	FINES %	D/%	ATTERBERG LIMITS LL	PL	BAR L. S. %	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS./CU.FT.	LABORATORY CLASSIFICATION
65E-26	-60-	44.0										
Cont.	2612		Same as 60-2611			4.5+				21.1	103.8	R, Cl(CH), Hd, w/Si pocks
		45.5										
	2613		1	3	96	2.25	29.9		9.0	19.9	111.5	R, Cl(CL), v/st. w/calc. nod.
		47.0								20		
	2614		Same as 60-2613			3.0				21.1	106.9	R, Cl(CL) v/st, w/calc. nod.
		48.5										
	—		No Sample - Drillers Classification							—		R, SaSi
		50.0								22		
	2615		0	25	75	1.25			1.0	22.5	97.8	R, SaSi(ML)
		51.5	0-0.78									
	2616		0	78	22	—			0.0	21.5	—	R, Si Sa(SM)
		57.0										
	2617		0	1	99	2.75	39.5		12.0	22.1	99.6	R, Cl(CL), v/st. w/Si layers
		58.5										
	2618		0	1	99	3.0	65.2		20.5	30.6	90.7	R, Cl(CH), v/st. w/Si layers
		60.0										

Bottomed @ 60.0' in R, Cl(CH), v/st.
Water level @ 38.0'

* Laboratory Penetrometer Reading