TABLE I (CON'D)

TEST DATA SUMMARY
BRAYS BAYOU CHANNEL RECTIFICATION
SUMMARY OF IDENTIFICATION TESTS

BORING NO.	Elev.	DEPTH OR ELEV OF SAMPLE	LABORATORY CLASSIFICATION	MECHANICAL ANALYSIS: GRAVEL %	SAND %	FINES %	D_{10}	ATTERBERG LIMITS: LL	PL	SPECIFIC GRAVITY G	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS/CU FT	COMPACTION DATA: OPTIMUM WATER %	MAXIMUM DRY DENSITY LBS/CU FT	SHEAR DATA: INITIAL e	DRY DENSITY LBS/CU FT	W_i %	W_f %	S_i %	TYPE TEST	SPECIMEN SIZE INCHES	TEST	σ_{III} T/SQ FT	σ_I T/SQ FT	C T/SQ FT	Ø DEGREES	PERMEABILITY: e	K FT/MIN	CONSOLIDATION DATA: P_o T/SQ FT	P_c T/SQ FT	C_c	t_{50}*	REMARKS BLS
6ST-		26.0-	CL	0	9	91		39			15	119																					17
75		30.5		Tan to Light Gray Clay, hard																													
(Con'd)		30.5-	CL	0	25	75		37			16	115																					14
		38.0		Tan to Light Gray Sandy Clay, hard																													
		38.0-	SM	0	75	25					25	104																					1
	- 3.7	53.0		Rust to Light Gray Silty Sand, soft, wet																													
6ST-	58.7	0.0-	CL	0	42	58		28			15	110																					8
93		15.5		Tan to Light Gray Sandy Clay, stiff to hard, crumbly																													
		15.5-	SC	0	69	31																											3
		20.5		Light Gray Clayey Sand, soft, wet																													
		20.5-	CL	3	18	79		35			16	115																					14
		25.0		Tan to Light Gray Clay, stiff to hard, calcareous concretions																													
		25.0-	CH	0	2	98		73			26	102																					26
		31.0		Light Gray to Rust Clay, hard, calcareous																													
		31.0-	CL	0	1	99		38			20	106																					14
		35.5		Light Gray to Rust Clay, stiff to hard, calcareous concretions																													
		35.5-	SP																														
		38.5		Rust Sand, fine, wet																													
		38.5-	CL	0	1	99		29			24	103																					7
	18.7	40.0		Light Gray to Rust Clay, stiff to hard, crumbly																													
6ST-	59.7	0.0-	CL	0	36	64		21			17	101																					5
94		2.0		Brown Sandy Clay, plastic to stiff, crumbly																													
		2.0-	CL	0	32	68		40			17	109																					17
		12.0		Tan to Light Gray Sandy Clay, stiff to hard, calcareous																													
		12.0-	SM	0	85	15					30																						1
		15.0		Tan to Light Gray Silty Sand, loose																													
		15.0-	SP	0	96	4					31																						0
		20.0		Light Gray Sand, fine, soft, watery																													
		20.0-	CL	0	15	85		32			18	112																					9
		27.5		Tan to Light Gray Clay, stiff to hard, calcareous																													
		27.5-	SM	0	89	11					32																						0
		36.0		Tan Silty Sand, firm, soft, watery																													
		36.0-	CL	0	5	95		42			20	110																					15
		37.5		Light Gray to Rust Clay, hard, calcareous																													
		37.5-	ML	2	36	62					30																						1
	18.7	41.0		Rust Sandy Silt, firm, soft, watery																													
6ST-	58.5	0.0-	CL	0	20	80		33			28	92																					10
95		2.0		Dark Brown Clay, plastic, roots																													
		2.0-	CH	0	15	85		50			25	91																					21
		5.5		Dark Gray Clay, stiff to hard																													
		5.5-	CL	0	18	82		42			20	101																					17
		10.5		Tan to Gray Clay, stiff to hard, calcareous																													
		10.5-	SC	0	56	44					12	112																					5
		14.0		Tan to Light Gray Clayey Sand, stiff to hard																													
		14.0-	SM	0	89	11					10																						0
		16.5		Gray Silty Sand, moist																													

* Values at Pressure T/SQ FT

– Triaxial Compression
UC – Unconfined Compression
DS – Direct Shear
UU – Unconsolidated Undrained
– Consolidated Drained
CU – Consolidated Undrained

TABLE I (CON'D)

TEST DATA SUMMARY
BRAYS BAYOU CHANNEL RECTIFICATION
SUMMARY OF IDENTIFICATION TESTS

BORING NO.	Elev.	DEPTH OR ELEV OF SAMPLE	LABORATORY CLASSIFICATION	MECHANICAL ANALYSIS GRAVEL %	SAND %	FINES %	D_{10}	ATTERBERG LIMITS LL	PL	SPECIFIC GRAVITY G	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS/CU FT	COMPACTION DATA OPTIMUM WATER %	MAXIMUM DRY DENSITY LBS/CU FT	SHEAR DATA INITIAL e	DRY DENSITY LBS/CU FT	W_i %	W_f %	S_i %	TYPE TEST	SPECIMEN SIZE INCHES	TEST	σ_{III} T/SQ FT	σ_I T/SQ FT	C T/SQ FT	Ø DEGREES	PERMEABILITY e	K FT/MIN	CONSOLIDATION DATA P_o T/SQ FT	P_c T/SQ FT	C_c	t_{50}*	REMARKS BLS
6ST-		16.5-	SP	0	97	3					25																						0
95		37.5		Tan to Light Gray Sand, soft, wet																													
(Con'd)		37.5-	CL	0	4	96		25			22	103																					4
		39.0		Light Gray to Rust Clay, soft, calcareous nodules																													
		39.0-	CL	0	6	94		46			22	106																					19
	18.0	40.5		Light Gray to Rust Clay, hard, calcareous																													
6ST-	56.8	0.0-	CL	0	21	79		40			16	112																					17
98		11.0		Brown to Gray Sandy Clay, hard, calcareous concretions																													
		11.0-	SM	0	68	32					14	110																					3
		17.5		Tan Silty Sand, firm																													
		17.5-	CL	0	17	83		39			14	118																					13
		21.5		Light Gray to Tan Clay, hard, calcareous																													
		21.5-	CL	1	30	69		29			18	111																					7
		25.0		Light Gray Sandy Clay, hard																													
		25.0-	SM	0	78	22					36																						0
	21.8	35.0		White Silty Sand, soft, watery																													
6ST-	60.0	0.0-	SM	0	87	13					19	102																					0
99		3.0		Light Gray Silty Sand, firm																													
		3.0-	CH	0	23	77		51			18	109																					18
		5.0		Brown Sandy Clay, hard, calcareous																													
		5.0-	CL	0	35	65		37			15	113																					13
		10.5		Tan to Gray Sandy Clay, hard, calcareous																													
		10.5-	SC	0	60	40					11	109																					8
		12.5		Tan to Light Gray Clayey Sand, hard																													
		12.5-	CL	0	33	67					9	109																					7
		14.5		Tan to Light Gray Sandy Clay, hard, silty																													
		14.5-	SM	0	74	26					11	100																					2
		16.5		Light Gray Silty Sand, firm with roots																													
		16.5-	SM	0	85	15					31																						0
		18.5		White Silty Sand, soft, watery																													
		18.5-	CL	0	27	73		35			16	116																					11
		22.0		Tan to Light Gray Sandy Clay, hard, calcareous concretions																													
		22.0-	SC	0	54	46					15	116																					6
		23.5		Tan to Light Gray Clayey Sand, firm, calcareous concretions																													
		23.5-	SP	0	94	6					33																						0
		27.0		Gray Sand, soft, watery																													
		27.0-	SM	0	88	12					35																						0
	25.0	35.0		Gray Silty Sand, Soft, watery																													
6ST-	57.0	0.0-	CL	0	31	69		35			13	114																					10
100		12.0		Light Gray Sandy Clay, hard																													
		12.0-	SM	0	64	36					18	110																					1
		14.5		Tan to Light Gray Silty Sand, firm, damp																													
		14.5-	SP	0	98	2					35																						0
		17.0		Gray Sand, soft, watery																													
		17.0-	CL	0	39	61		34			15	118																					8
		20.0		Light Gray to Tan Sandy Clay, hard, calcareous																													

* Values at Pressure T/SQ FT

– Triaxial Compression
UC – Unconfined Compression
DS – Direct Shear
UU – Unconsolidated Undrained
– Consolidated Drained
CU – Consolidated Undrained

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SWNGL-2 29 April 1957

MEMORANDUM FOR: Chief, Soil Design Section

SUBJECT: Brays Bayou, Locations of Core Borings

1. Tabulated below are locations of borings 6ST-69 through 75 inclusive and 6ST-96 and 97, as furnished by personnel of the Galveston Area Office, 29 April 1957. Elevation of natural ground at each boring locations is also supplied.

BORING NO.	STATION	OFFSET	LINE	ELEVATION OF NATURAL GROUND
6ST-69	109+65	354' Rt	"F"	43.72
6ST-70	118+48	113' Lt	"F"	38.84
6ST-71	129+20	20" Rt	"F"	44.70
6ST-72	140+00	85' Rt	"F"	42.84
6ST-73	164+05	160' Lt	"F"	46.84
6ST-74	170+10	135' Lt	"F"	48.75
6ST-75	179+30	150' Lt	"F"	49.28
6ST-96	82+40	5' Rt	"F"	51.97
6ST-97	95+59	18.5' Lt	"F"	45.92

2. These borings are the last to be tied-in as elevations and locations of all other borings laid out and drilled for the Brays Bayou project have been previously reported.

3. If any additional information relative to the locations or elevations of these borings is desired please advise.

Ernest H. Wittig III

ERNEST H. WITTIG, III
Chief, Investigation and
Testing Section

BRAYS BAYOU

CHANNEL RECTIFICATION

TEST DATA SUMMARY

FEATURE LOG OF SOIL BORINGS

TABLE I

Sheet —— of ——

BORING NO.	SAMPLE NO.	DEPTH OR ELEV. OF SAMPLE	MECHANICAL ANALYSIS GRAVEL %	SAND %	FINES %	*	ATTERBERG LIMITS LL	PL	BAR L.S. %	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS./CU.FT.	LABORATORY CLASSIFICATION
6ST-95	57-	0.0										
	15B2		0	20	80	0.5	32.9		10.0	27.5	92.1	D-B, Cl(CL), Pl, w/Roots
		2.0										
	15B3					1.0				29.4	76.0	D, Cl(CH), St-Hd, Fe Nod
		4.0										
	15B4		0	15	85	4.5+	50.4		21.0	20.2	105.6	D, Cl(CH), St-Hd, Fe Nod
		5.5										
	15B5					4.4				20.9	87.2	T-G, SaCl(CL), St-Hd, Cal. Conc.
		7.0								609	303 ✓	
	15B6		0	21	79	4.5	38.5		15.0	17.4	112.1	T-G, SaCl(CL), St-Hd, Cal. Conc.
		9.0										
	15B7		0	16	84	3.5	45.0		19.0	22.6	103.9	T-D-L, Cl(CL), St-Hd, Fe. Nod.
		10.5										
	15B8					2.5				13.2	113.0	T-D-L, Cl Sa(SC), St-Hd, Layered
		12.5										
	15B9		0	0-0-56 56	44	4.0			5.0	10.5	111.8	T-D-L, Cl Sa(SC), St-Hd, Layered
		14.0										
	1590		0	0-0-89 89	11	—			0.0	10.2	—	G, Sa(SP-SM), Moist
		16.5										
	1591		0	0-0-97 97	3	—			0.0	24.7	—	T-L Sa(SP-SM), So. We.
		37.5										
	1592		0	4	96	1.5	24.8		4.0	22.4	102.6	L-Rw, Cl(CL-ML), So, Cal. Nod.
		39.0										
	1593		0	6	94	4.5+	45.8		19.0	21.6	106.2	L-Rw, Cl(CL), Hd, Cal.
		40.5										

BOTTOMED AT 40.5' in L-Rw, Cl(CL), Hd, Cal.
WATER ENCOUNTERED AT 16.0'

DLR-627

*. Laboratory Penetrometer Readings

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