



JEFFERSON PARISH SIDE (WEST BANK)

STATION TO STATION LIMITS	SHEET PILE TYPE	NET SHEET PILE STICKUP (A)	PLATE NO. FOR PRESS. DIAGRAM	FACTOR OF SAFETY	GOVERNING LOAD CASE (Q OR S)	SWL (NGVD) FOR GOVERNING LOAD CASE (B)	MAX. BENDING STRESS f_b (ksi)	LOCATION OF MAX. BENDING STRESS EL. (NGVD) (C)	MAX. SHEAR STRESS f_v (ksi)	LOCATION OF MAX. SHEAR STRESS EL. (NGVD) (D OR E)	MAX. DEFLECTION (IN.)
STA 549+22 TO 552+70 B/L	PZ-22	4.0	109	1.0	Q	13.5	0.6	8.63	-0.4	7.35	0.01
STA 549+22 TO 552+70 B/L *	PZ-27	*	121	1.5	Q	-5.0	2.3	-9.19	0.3	-2.00	-0.10
STA 554+00 TO 589+00 B/L	PZ-22	7.6	110	1.0	Q	13.6	4.9	3.04	-1.1	-0.33	0.37
STA 589+00 TO 614+00 B/L	PZ-22	6.6	111	1.0	Q	13.6	3.0	4.90	-0.9	2.30	0.14
STA 614+00 TO 625+25 B/L	PZ-22	6.1	112	1.0	Q	13.6	2.3	5.76	-0.8	3.52	0.08
STA 625+25 TO 635+00 B/L	PZ-22	6.1	113	1.0	Q	14.1	2.3	6.27	-0.8	4.00	0.08
STA 635+00 TO 641+50 B/L	PZ-22	2.6	114	1.0	Q	14.1	0.1	11.18	-0.2	10.57	0.00
STA 641+50 TO 663+00 B/L	PZ-22	2.6	115	1.0	Q	14.6	0.1	11.74	-0.2	11.33	0.00
STA 663+00 TO 670+00 B/L	PZ-22	4.1	116	1.0	Q	14.6	0.6	10.00	-0.8	8.94	0.00

* TIEBACK SHEET PILE WALL TO SUPPORT I-WALL SECTION IN THIS REACH

NOTE:
THE SHEARS, DEFLECTIONS, AND BENDING MOMENTS WERE OBTAINED BY THE USE OF THE BEAMS PROGRAM (X0015) OF THE WES LIBRARY.

ORLEANS PARISH SIDE (EAST BANK)

STATION TO STATION LIMITS	SHEET PILE TYPE	NET SHEET PILE STICKUP (A)	PLATE NO. FOR PRESS. DIAGRAM	FACTOR OF SAFETY	GOVERNING LOAD CASE (Q OR S)	SWL (NGVD) FOR GOVERNING LOAD CASE (B)	MAX. BENDING STRESS f_b (ksi)	LOCATION OF MAX. BENDING STRESS EL. (NGVD) (C)	MAX. SHEAR STRESS f_v (ksi)	LOCATION OF MAX. SHEAR STRESS EL. (NGVD) (D OR E)	MAX. DEFLECTION (IN.)
STA 545+80 TO 552+70 B/L	ARBED BZ12.1L	5.0	100	1.5	Q	-5.0	0.2	5.05	-0.2	4.26	0.00
STA 554+00 TO 568+00 B/L	PZ-22	8.1	101	1.0	Q	13.6	6.2	2.00	1.1	5.50	0.59
STA 568+00 TO 589+00 B/L	PZ-22	8.1	102	1.0	Q	13.6	6.2	2.00	1.1	5.50	0.59
STA 589+00 TO 614+00 B/L	PZ-22	8.1	103	1.0	Q	13.6	6.2	2.00	1.1	5.50	0.59
STA 614+00 TO 625+00 B/L	PZ-22	7.1	104	1.0	Q	13.6	3.8	4.00	-0.9	1.02	0.23
STA 625+00 TO 635+00 B/L	PZ-22	6.6	105	1.0	Q	14.1	3.0	5.41	-0.9	2.81	0.14
STA 635+00 TO 642+00 B/L	PZ-22	4.6	106	1.0	Q	14.1	0.8	8.78	-0.5	7.58	0.01
STA 642+00 TO 663+00 B/L	PZ-22	2.6	107	1.0	Q	14.6	0.1	11.74	-0.2	11.40	0.00
STA 663+00 TO 670+63 B/L	PZ-22	3.6	108	1.0	Q	14.6	0.4	10.57	-0.3	9.79	0.00

COMPUTER AIDED DESIGN DRAFTING

LAKE PONTCHARTRAIN, LA. AND VICINITY
HIGH LEVEL PLAN
DESIGN MEMORANDUM NO. 20 GENERAL DESIGN
ORLEANS PARISH - JEFFERSON PARISH
17TH STREET OUTFALL CANAL
(METAIRIE REFIEF)
STRUCTURAL ANALYSIS OF I-WALLS
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
DATE: MARCH 1990 FILE NO: H-2-30300