

(A0006670)

JEFFERSON SIDE - I-WALL ANALYSIS

STATION TO STATION LIMITS	sheet PILE TYPE	Sheet Pile STICK UP ABOVE Level CROWN	PLATE # FOR Pressure DIAGRAM	FACTOR OF SAFETY	GOVER NING LOAD CASE	SWL NGVD OF GOVER CASE	MAX. BENDING STRESS fb (K.S.I.)	MAX SHEAR stress fv (K.S.I.)	Deflection (inches)
STA. 549+22 Q74 To STA 552+70 B/L	PZ-22	5.2	109	1	Q	13.5	0.6	0.4	0.01
STA. 554+00 Q75 To STA. 589+00 B/L	PZ-22	8.1	110	1	Q	13.6	4.9	1.1	0.37
STA. 589+00 Q76 To ST 514+00 B/L	PZ-22	7.1	111	1	Q	13.6	3.0	0.9	0.14
STA. 614+00 Q77 To STA. 625+25 B/L	PZ-22	6.6	112	1	Q	13.6	2.3	0.8	0.08
STA. 625+25 Q78 To STA. 635+00 B/L	PZ-22	6.6	113	1	Q	14.1	2.3	0.8	0.08
STA. 635+00 Q79 To STA. 641+50 B/L	PZ-22	3.1	114	1	Q	14.1	0.1	0.2	0.00
STA. 641+50 Q80 To STA. 663+00 B/L	PZ-22	3.1	115	1	Q	14.6	0.1	0.2	0.00
STA. 663+00 Q81 To STA. 670+00 B/L	PZ-22	4.6	116	1	Q	14.6	0.6	0.8	0.00
STA 549+22 to 552+70 B/L Tieback wall	PZ-27 MET BA	-	122	1.5	Q	-5.0	2.3	0.3	0.3

10/31/89  
Frank Voj Kovich  
Ext 1034

JEFFERSON PARISH  
STA 549+22 TO 552+70  
ORLEANS PARISH  
STA 545+80 TO 552+70

EL 0.0

EL -27.9 (AS BUILT)

EL -17.5 ← Req'd by F&M

B-File (Q-74) 17th st. canal Floodwall

~~STA. 625+25 To STA. 635+00~~

549+22 to 557+70

Jefferson Side

LLIST Q74

1	0001	17TH STREET CANAL FLOODWALL			
2	0002	STA. 549+00 TO STA. 557+00			
3	10003		3	0.13500000E+02	0.00000000E+01
4	10004		3	0.12500000E+02	0.62500000E+02
5	10005		3	0.11500000E+02	0.12500000E+03
6	10006		3	0.10500000E+02	0.18750000E+03
7	10007		3	0.95000000E+01	0.25000000E+03
8	10008		3	0.95000000E+01	0.00000000E+01
9	10009		3	0.95000000E+01	-0.55000000E+03
10	10010		3	0.85000000E+01	-0.59750000E+03
11	10011		3	0.77629553E+01	-0.63250962E+03
12	10012		3	0.73515987E+01	0.00000000E+01
13	10013		3	0.64505709E+01	0.13854372E+04
14	10014		4	0.64505709E+01	0.00000000E+01
15	10015		0	0.64505709E+01	0.00000000E+01
16	10016	0.64505709E+01	-0.32970780E+02		0.68247574E+01
EOT..					

LIST PZ22

1	100	1	13.5	6.4506	1	6.4506	0	-1
2	200	PZ-22						
3	300	29000000	6.4691	84.3818				
EOT..								

LIST 0740

1

2

BEAMS (SHEAR, MOMENT, DEFLECTION)

3

4

17TH STREET CANAL FLOODWALL

6

A.5

7

8 THE REFERENCE SYSTEM SELECTED DEFINES POSITIVE FORCES AS TO THE LEFT  
9 INCREASING MEMBER COORDINATES AS UPWARD, AND POSITIVE MOMENTS  
10 AS COUNTERCLOCKWISE.

11

12

13 THE MAXIMUM DEFLECTION IS 0.01 INCHES AND OCCURS AT MEMBER COORDINATE  
14 13.50 FT.

15

O.K.

16

17

18 Z-22 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.

19

20 THE WEIGHT OF THIS VERTICAL MEMBER HAS BEEN NEGLECTED.

21

22

23

CALCULATED EXTERNAL LOADS

24

25	DISTANCE FROM	TYPE OF	MAGNITUDE OF
26	REFERENCE (FT)	LOAD	LOAD

27

28	6.45	POINT LD	32.97 LBF
29	6.45	COUPLE	-6.82 LBF-FT

30

31

INPUTTED LOADS

32

34	DISTANCE FROM	TYPE OF	MAGNITUDE OF
35	REFERENCE (FT)	LOAD	LOAD

36

37	13.50	CONTN LD	0.00 LBF/SQ FT
38	12.50	CONTN LD	62.50 LBF/SQ FT
39	11.50	CONTN LD	125.00 LBF/SQ FT
40	10.50	CONTN LD	187.50 LBF/SQ FT
41	9.50	CONTN LD	250.00 LBF/SQ FT
42	9.50	CONTN LD	0.00 LBF/SQ FT
43	9.50	CONTN LD	-550.00 LBF/SQ FT
44	8.50	CONTN LD	-597.50 LBF/SQ FT
45	7.76	CONTN LD	-632.51 LBF/SQ FT
46	7.35	CONTN LD	0.00 LBF/SQ FT

47 6.45 CONTN LD 1385.44 LBF/SQ FT  
 48 6.45 CONTN LD 0.00 LBF/SQ FT  
 4

50  
 51 Z-22 PROPERTIES ARE AS FOLLOWS.  
 52  
 53

54 MOMENT OF INERTIA= 84.38 IN. TO THE 4TH PER FOOT OF WALL  
 55 CROSS SECTIONAL AREA= 6.47 SQ IN.  
 56 ELASTIC MODULUS= 29000000. LBF/SQ IN.  
 57 DEFLECTION REFERENCE IS AT 6.451  
 58  
 59

60 THE MAXIMUM BENDING MOMENT IS 888.29 LBF-FT AND OCCURS AT 8.63  
 61 WHICH HAS THE SHEAR FORCE OF 5.52 LBF.  
 62  
 63

66	DISTANCE	SHEAR FOR	SHEAR STR	BENDING MOM	DEFLECTION
67	(FEET)	(LBF)	(LBF/SQIN)	(LBF-FT)	FROM TANG. THRU DEFLE REFERENCE (INCHES)
68	13.500	0.0	0.0	0.0	0.0080
69	13.499	0.0	0.0	0.0	0.0080
70	13.000	7.8	1.2	1.3	0.0071
71	12.000	70.3	10.9	35.2	0.0054
72	11.000	195.3	30.2	162.8	0.0037
73	10.000	382.8	59.2	446.6	0.0021
74	9.500	500.0	77.3	666.7	0.0014
75	9.000	219.1	33.9	846.9	0.0009
76	8.633	5.5	0.9	888.3	0.0005
77	8.000	-378.4	-58.5	771.2	0.0002
78	7.353	-657.1	-101.6	412.1	0.0000
79	7.351	-657.1	-101.6	410.8	0.0000
80	7.000	-562.1	-86.9	191.5	0.0000
81	6.452	-34.4	-5.3	6.9	0.0000
82	6.451	0.0	0.0	0.0	0.0000

*By Inspection*  
*f<sub>b</sub> < 18.5 K.S.I*  
*O.K.*

83  
 84  
 85  
 86 \*RUN COMPLETED\*  
 87  
 EDT..

Q-File (Q-75) 17th Street CANAL Floodwall  
" STA. 554+00 to 589+00

Jetterson Side

LIST Q75

1 10001 17TH STREET OUTFALL CANAL  
2 10002 STA.554+00 TO STA.589+00  
3 10003 3 0.136000000E+02 0.000000000E+01  
4 10004 3 0.126000000E+02 0.625000000E+02  
5 10005 3 0.116000000E+02 0.125000000E+03  
6 10006 3 0.106000000E+02 0.187500000E+03  
7 10007 3 0.960000000E+01 0.250000000E+03  
8 10008 3 0.860000000E+01 0.312500000E+03  
9 10009 3 0.760000000E+01 0.375000000E+03  
10 10010 3 0.660000000E+01 0.437500000E+03  
11 10011 3 0.600000000E+01 0.475000000E+03  
12 10012 3 0.600000000E+01 0.000000000E+01  
13 10013 3 0.600000000E+01 -0.525000000E+03  
14 10014 3 0.500000000E+01 -0.582500000E+03  
15 10015 3 0.400000000E+01 -0.640000000E+03  
16 10016 3 0.350000000E+01 -0.668750000E+03  
17 10017 3 0.350000000E+01 -0.668750000E+03  
18 10018 3 0.250000000E+01 -0.709250000E+03  
19 10019 3 0.250000000E+01 -0.709250000E+03  
20 10020 3 0.150000000E+01 -0.749750000E+03  
21 10021 3 0.86819267E+00 -0.77533820E+03  
22 10022 3 -0.33485887E+00 0.000000000E+01  
23 10023 3 -0.28594808E+01 0.16270590E+04  
  
24 10024 4 -0.28594808E+01 0.000000000E+01  
25 10025 0 -0.28594808E+01 0.000000000E+01  
26 10026 -0.28594808E+01 0.000000000E+01 -0.61669180E+02  
EL . .

LIST PZ22

1 100 1 13.6 -2.8594 1 -2.8594 0 -1  
2 200 PZ-22  
3 300 29000000 6.4691 84.3818  
EOT..

LIST 0750

1  
2 BEAMS (SHEAR, MOMENT, DEFLECTION)

3  
4  
5 17TH STREET OUTFALL CANAL  
6 A.5

7  
8 THE REFERENCE SYSTEM SELECTED DEFINES POSITIVE FORCES AS TO THE LEFT  
9 INCREASING MEMBER COORDINATES AS UPWARD, AND POSITIVE MOMENTS  
10 AS COUNTERCLOCKWISE.

11  
12  
13 THE MAXIMUM DEFLECTION IS 0.37 INCHES AND OCCURS AT MEMBER COORDINATE  
14 13.60 FT. o.k.

15  
16  
17  
18 Z-22 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.

19  
20 THE WEIGHT OF THIS VERTICAL MEMBER HAS BEEN NEGLECTED.

21  
22  
23 CALCULATED EXTERNAL LOADS

24  
25 DISTANCE FROM TYPE OF MAGNITUDE OF  
26 REFERENCE(FT) LOAD LOAD  
27  
28 -2.86 POINT LD 0.00 LBF  
29 -2.86 COUPLE 61.67 LBF-FT

30  
31  
32 INPUTTED LOADS

33  
34 DISTANCE FROM TYPE OF MAGNITUDE OF  
35 REFERENCE(FT) LOAD LOAD  
36  
37 13.60 CONTN LD 0.00 LBF/SQ FT  
38 12.60 CONTN LD 62.50 LBF/SQ FT  
39 11.60 CONTN LD 125.00 LBF/SQ FT  
40 10.60 CONTN LD 187.50 LBF/SQ FT  
41 9.60 CONTN LD 250.00 LBF/SQ FT  
42 8.60 CONTN LD 312.50 LBF/SQ FT  
43 7.60 CONTN LD 375.00 LBF/SQ FT  
44 6.60 CONTN LD 437.50 LBF/SQ FT  
45 6.00 CONTN LD 475.00 LBF/SQ FT  
46 6.00 CONTN LD 0.00 LBF/SQ FT

47 6.00 CONTN LD -525.00 LBF/SQ FT  
 4 5.00 CONTN LD -582.50 LBF/SQ FT  
 49 4.00 CONTN LD -640.00 LBF/SQ FT  
 50 3.50 CONTN LD -668.75 LBF/SQ FT  
 51 3.50 CONTN LD -668.75 LBF/SQ FT  
 52 2.50 CONTN LD -709.25 LBF/SQ FT  
 53 2.50 CONTN LD -709.25 LBF/SQ FT  
 54 1.50 CONTN LD -749.75 LBF/SQ FT  
 55 0.87 CONTN LD -775.34 LBF/SQ FT  
 56 -0.33 CONTN LD 0.00 LBF/SQ FT  
 57 -2.86 CONTN LD 1627.06 LBF/SQ FT  
 58 -2.86 CONTN LD 0.00 LBF/SQ FT  
 59  
 60

61 Z-22 PROPERTIES ARE AS FOLLOWS.  
 62  
 63

64 MOMENT OF INERTIA= 84.38 IN. TO THE 4TH PER FOOT OF WALL  
 65 CROSS SECTIONAL AREA= 6.47 SQ IN.  
 66 ELASTIC MODULUS= 29000000. LBF/SQ IN.  
 67 DEFLECTION REFERENCE IS AT -2.859  
 68  
 69

70 THE MAXIMUM BENDING MOMENT IS 7367.29 LBF-FT AND OCCURS AT 3.04  
 71 WHICH HAS THE SHEAR FORCE OF 0.86 LBF.  
 72

74					DEFLECTION FROM TANG. THRU DEFLE REFERENCE
75	DISTANCE	SHEAR FOR	SHEAR STR	BENDING MOM	(INCHES )
76	(FEET)	(LBF)	(LBF/SQIN)	(LBF-FT)	
78	13.600	0.0	0.0	0.0	0.3651
79	13.599	0.0	0.0	0.0	0.3651
80	13.000	11.2	1.7	2.2	0.3435
81	12.000	80.0	12.4	42.7	0.3074
82	11.000	211.2	32.7	183.1	0.2714
83	10.000	405.0	62.6	486.0	0.2356
84	9.000	661.2	102.2	1013.9	0.2001
85	8.000	980.0	151.5	1829.3	0.1653
86	7.000	1361.2	210.4	2994.7	0.1319
87	6.000	1805.0	279.0	4572.7	0.1007
88	5.000	1251.2	193.4	6105.6	0.0726
89	4.000	640.0	98.9	7056.0	0.0488
90	3.040	0.9	0.1	7367.3	0.0306
91	3.000	-26.6	-4.1	7366.8	0.0300
92	2.000	-735.9	-113.8	6988.9	0.0162

*By Inspection*  
*P6 < 18.5 o.k.*



93	1.000	-1485.6	-229.6	5881.5	0.0073
94	0.000	-2017.7	-311.9	4078.9	0.0025
95	-0.334	-2053.9	-317.5	3397.2	0.0016
96	-0.336	-2053.9	-317.5	3393.1	0.0016
97	-1.000	-1911.3	-295.4	2060.6	0.0005
98	-2.000	-1160.4	-179.4	471.1	0.0000
99	-2.858	-1.8	-0.3	-61.7	0.0000
100	-2.859	0.0	0.0	0.0	0.0000
101					
102					
103					
104	*RUN COMPLETED*				
105					
END..					

Q-FILE (Q-76) 17TH STREET CANAL Floodwall

STA. 589+00 TO STA. 614+00

Jackson side

LIST Q76

1	10001	17TH STREET CANAL FLOODWALL				
2	10002	STA.589+00 TO 614+00				
3	10003		3	0.136000000E+02	0.000000000E+01	
4	10004		3	0.126000000E+02	0.625000000E+02	
5	10005		3	0.116000000E+02	0.125000000E+03	
6	10006		3	0.106000000E+02	0.187500000E+03	
7	10007		3	0.960000000E+01	0.250000000E+03	
8	10008		3	0.860000000E+01	0.312500000E+03	
9	10009		3	0.760000000E+01	0.375000000E+03	
10	10010		3	0.700000000E+01	0.412500000E+03	
11	10011		3	0.700000000E+01	0.000000000E+01	
12	10012		3	0.700000000E+01	-0.587500000E+03	
13	10013		3	0.600000000E+01	-0.645000000E+03	
14	10014		3	0.500000000E+01	-0.702500000E+03	
15	10015		3	0.400000000E+01	-0.760000000E+03	
16	10016		3	0.400000000E+01	-0.760000000E+03	
17	10017		3	0.350000000E+01	-0.788750000E+03	
18	10018		3	0.350000000E+01	-0.788750000E+03	
19	10019		3	0.30276046E+01	-0.80788201E+03	
20	10020		3	0.23089970E+01	0.000000000E+01	
21	10021		3	0.56338731E+00	0.19624711E+04	
22	10022		4	0.56338731E+00	0.000000000E+01	
23	10023		0	0.56338731E+00	0.000000000E+01	
24	10024			0.56338731E+00	-0.17291017E+01	0.74787449E+01

E..

LIST PZ22

1	100	1	13.6	.5634	1	.5634	0	-1
2	00	PZ-22						
3	00	29000000	6.4691	84.3818				

EOT..

LIST 0760

1  
2  
3

BEAMS (SHEAR, MOMENT, DEFLECTION)

4 17TH STREET CANAL FLOODWALL  
5 A.5

6  
7  
8 THE REFERENCE SYSTEM SELECTED DEFINES POSITIVE FORCES AS TO THE LEFT  
9 INCREASING MEMBER COORDINATES AS UPWARD, AND POSITIVE MOMENTS  
10 AS COUNTERCLOCKWISE.

11  
12

13 THE MAXIMUM DEFLECTION IS 0.14 INCHES AND OCCURS AT MEMBER COORDINATE  
14 13.60 FT. *D.K.*

15  
16  
17

18 Z-22 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.

19  
20

21 THE WEIGHT OF THIS VERTICAL MEMBER HAS BEEN NEGLECTED.

22  
23

CALCULATED EXTERNAL LOADS

24

25 DISTANCE FROM TYPE OF MAGNITUDE OF  
26 REFERENCE(FT) LOAD LOAD

27

28 0.56 POINT LD 1.73 LBF  
29 0.56 COUPLE -7.48 LBF-FT

30  
31

INPUTTED LOADS

32

33  
34 DISTANCE FROM TYPE OF MAGNITUDE OF  
35 REFERENCE(FT) LOAD LOAD

36

37 13.60 CONTN LD 0.00 LBF/SQ FT  
38 12.60 CONTN LD 62.50 LBF/SQ FT  
39 11.60 CONTN LD 125.00 LBF/SQ FT  
40 10.60 CONTN LD 187.50 LBF/SQ FT  
41 9.60 CONTN LD 250.00 LBF/SQ FT  
42 8.60 CONTN LD 312.50 LBF/SQ FT  
43 7.60 CONTN LD 375.00 LBF/SQ FT  
44 7.00 CONTN LD 412.50 LBF/SQ FT  
45 7.00 CONTN LD 0.00 LBF/SQ FT  
46 7.00 CONTN LD -587.50 LBF/SQ FT

47 6.00 CONTN LD -645.00 LBF/SQ FT  
 48 5.00 CONTN LD -702.50 LBF/SQ FT  
 4 4.00 CONTN LD -760.00 LBF/SQ FT  
 50 4.00 CONTN LD -760.00 LBF/SQ FT  
 51 3.50 CONTN LD -788.75 LBF/SQ FT  
 52 3.50 CONTN LD -788.75 LBF/SQ FT  
 53 3.03 CONTN LD -807.88 LBF/SQ FT  
 54 2.31 CONTN LD 0.00 LBF/SQ FT  
 55 0.56 CONTN LD 1962.47 LBF/SQ FT  
 56 0.56 CONTN LD 0.00 LBF/SQ FT

57  
 58  
 59 Z-22 PROPERTIES ARE AS FOLLOWS.

62 MOMENT OF INERTIA= 84.38 IN. TO THE 4TH PER FOOT OF WALL  
 63 CROSS SECTIONAL AREA= 6.47 SQ IN.  
 64 ELASTIC MODULUS= 29000000. LBF/SQ IN.  
 65 DEFLECTION REFERENCE IS AT 0.563

68 THE MAXIMUM BENDING MOMENT IS 4469.18 LBF-FT AND OCCURS AT 4.90  
 69 WHICH HAS THE SHEAR FORCE OF 2.53 LBF.

70					DEFLECTION
71					FROM TANG.
72					THRU DEFLE
73					REFERENCE
74	DISTANCE	SHEAR FOR	SHEAR STR	BENDING MOM	REFERENCE
75	(FEET)	(LBF)	(LBF/SQIN)	(LBF-FT)	(INCHES )
76	13.600	0.0	0.0	0.0	0.1401
77	13.599	0.0	0.0	0.0	0.1401
78	13.000	11.2	1.7	2.2	0.1299
79	12.000	80.0	12.4	42.7	0.1130
80	11.000	211.2	32.7	183.1	0.0961
81	10.000	405.0	62.6	486.0	0.0793
82	9.000	661.2	102.2	1013.9	0.0629
83	8.000	980.0	151.5	1829.3	0.0473
84	7.000	1361.2	210.4	2994.7	0.0330
85	6.000	745.0	115.2	4052.7	0.0208
86	5.000	71.2	11.0	4465.6	0.0114
87	4.903	2.5	0.4	4469.2	0.0106
88	4.000	-660.0	-102.0	4176.0	0.0051
89	3.000	-1446.2	-223.6	3126.8	0.0016
90	2.310	-1714.6	-265.0	2005.5	0.0005
91	2.308	-1714.6	-265.0	2002.1	0.0005
92	2.000	-1660.9	-256.7	1479.5	0.0002

FROM Inspection  
 Lb < 18.5 K-S.I.  
 O.K.

93	1.000	-751.4	-116.2	179.7	0.0000
94	0.564	-3.7	-0.6	7.5	0.0000
5	0.563	0.0	0.0	0.0	0.0000

96

97

98

99 \*RUN COMPLETED\*

100

EDT..

3.

4/22

17<sup>th</sup> St. Outfall Can.

Jefferson side (Q-77)

Sta. 614+00 To 625+2

SWL = 13.6

F.S. = 1.0

LIST Q77

1	10003	3	0.13600000E+02	0.00000000E+01
2	10004	3	0.12600000E+02	0.62500000E+02
3	10005	3	0.11600000E+02	0.12500000E+03
4	10006	3	0.10600000E+02	0.18750000E+03
5	10007	3	0.96000000E+01	0.25000000E+03
6	10008	3	0.86000000E+01	0.31250000E+03
7	10009	3	0.76000000E+01	0.37500000E+03
8	10010	3	0.75000000E+01	0.38125000E+03
9	10011	3	0.75000000E+01	0.00000000E+01
10	10012	3	0.75000000E+01	-0.61875000E+03
11	10013	3	0.65000000E+01	-0.67625000E+03
12	10014	3	0.55000000E+01	-0.73375000E+03
13	10015	3	0.50000000E+01	-0.76250000E+03
14	10016	3	0.50000000E+01	-0.76250000E+03
15	10017	3	0.42233789E+01	-0.80715571E+03
16	10018	3	0.35179447E+01	0.00000000E+01
17	10019	3	0.19215598E+01	0.18265789E+04
18	10020	4	0.19215598E+01	0.00000000E+01
19	10021	0	0.19215598E+01	0.00000000E+01
20	10022	0.19215598E+01	0.14901161E-07	0.26301482E+01
EOT..				

Q-File Q77

NAME OF FILE?  
CCGMM7777

BEAMS (SHEAR, MOMENT, DEFLECTION)

SEVENTEENTH ST. OUTFALL CANAL GDM I-WALL ANALYSIS  
STA

THE REFERENCE SYSTEM SELECTED DEFINES POSITIVE FORCES AS TO THE RIGHT  
INCREASING MEMBER COORDINATES AS UPWARD, AND POSITIVE MOMENTS  
AS CLOCKWISE.

THE MAXIMUM DEFLECTION IS -0.08 INCHES AND OCCURS AT MEMBER COORDINATE  
15.60 FT.

PZ-22 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.

THE WEIGHT OF THIS VERTICAL MEMBER HAS BEEN NEGLECTED.

LIST MORE?  
YY

ALT-F10 HELP | VT-100 | HDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

CALCULATED EXTERNAL LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
1.92	POINT LD	0.00 LBF
1.92	COUPLE	-2.63 LBF-FT

INPUTTED LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
13.60	CONTN LD	0.00 LBF/SQ FT
12.60	CONTN LD	62.50 LBF/SQ FT
11.60	CONTN LD	125.00 LBF/SQ FT
10.60	CONTN LD	187.50 LBF/SQ FT

LIST MORE?

YY

ALT-F10 HELP | VT-100 | HDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

YY

9.60	CONTN LD	250.00 LBF/SQ FT
8.60	CONTN LD	312.50 LBF/SQ FT
7.60	CONTN LD	375.00 LBF/SQ FT
7.50	CONTN LD	381.25 LBF/SQ FT
7.50	CONTN LD	0.00 LBF/SQ FT
7.50	CONTN LD	-618.75 LBF/SQ FT
6.50	CONTN LD	-676.25 LBF/SQ FT
5.50	CONTN LD	-733.75 LBF/SQ FT
5.00	CONTN LD	-762.50 LBF/SQ FT
5.00	CONTN LD	-762.50 LBF/SQ FT
4.22	CONTN LD	-807.16 LBF/SQ FT
3.52	CONTN LD	0.00 LBF/SQ FT
1.92	CONTN LD	1826.58 LBF/SQ FT
1.92	CONTN LD	0.00 LBF/SQ FT

PZ-22 PROPERTIES ARE AS FOLLOWS.

MOMENT OF INERTIA= 63.38 IN. TO THE 4TH PER FOOT OF WALL

LIST MORE?

YY

ALT-F10 HELP | VT-100 | HDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

YY

CROSS SECTIONAL AREA= 6.49 SQ IN.  
 ELASTIC MODULUS= 29000000. LBF/SQ IN.  
 DEFLECTION REFERENCE IS AT 1.920

THE MAXIMUM BENDING MOMENT IS 3400.53 LBF-FT AND OCCURS AT 5.76  
 WHICH HAS THE SHEAR FORCE OF 1.79 LBF.

DISTANCE (FEET)	SHEAR FOR (LBS)	SHEAR STR (LBS/CONTN)	BENDING MOM (LBS-FT)	DEFLECTION FROM TANG. THRU DEFLE REFERENCE (INCHES)
-----------------	-----------------	-----------------------	----------------------	---

15.600	0.0	0.0	0.0	-0.0767
15.599	0.0	0.0	0.0	-0.0767
15.000	0.0	0.0	0.0	-0.0726
14.000	0.0	0.0	0.0	-0.0659
13.000	11.2	1.7	2.2	-0.0591
12.000	80.0	12.3	42.7	-0.0523
11.000	211.2	32.6	183.1	-0.0456

LIST MORE?

YY

ALT-F10 HELP | VT-100 | HDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

YY

10.000	405.0	62.4	486.0	-0.0388
9.000	661.2	101.9	1013.9	-0.0321
8.000	980.0	151.0	1829.3	-0.0253
7.500	1162.8	179.2	2364.4	-0.0219
7.000	846.2	130.4	2867.2	-0.0185
6.000	170.0	26.2	3380.2	-0.0118
5.764	1.8	0.3	3400.5	-0.0102
5.500	-189.7	-29.2	3375.8	-0.0067
5.000	-563.8	-86.9	3188.1	-0.0042
4.000	-1325.0	-204.2	2235.7	-0.0011
3.519	-1458.0	-224.6	1555.7	-0.0005
3.517	-1458.0	-224.6	1552.8	-0.0005
3.000	-1304.5	-201.0	825.6	-0.0001
2.000	-139.8	-21.5	8.2	0.0000
1.923	-1.8	-0.3	2.6	0.0000
1.921	0.0	0.0	0.0	0.0000
1.000	0.0	0.0	0.0	0.0000
0.000	0.0	0.0	0.0	0.0000
-1.000	0.0	0.0	0.0	0.0000
-2.000	0.0	0.0	0.0	0.0000

LIST MORE?

YY

ALT-F10 HELP | VT-100 | HDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

5.000	-563.8	-86.9	3188.1	-0.0042
4.000	-1325.0	-204.2	2235.7	-0.0011
3.519	-1458.0	-224.6	1555.7	-0.0005
3.517	-1458.0	-224.6	1552.8	-0.0005
3.000	-1304.5	-201.0	825.6	-0.0001
2.000	-139.8	-21.5	8.2	0.0000
1.923	-1.8	-0.3	2.6	0.0000
1.921	0.0	0.0	0.0	0.0000
1.000	0.0	0.0	0.0	0.0000
0.000	0.0	0.0	0.0	0.0000
-1.000	0.0	0.0	0.0	0.0000
-2.000	0.0	0.0	0.0	0.0000

LIST MORE?

YY

-2.749	0.0	0.0	0.0	0.0000
-2.750	0.0	0.0	0.0	0.0000

\*RUN COMPLETED\*

EC

LIST MORE?

YY

ALT-F10 HELP | VT-100 | HDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

6.000	170.0	26.2	3380.2	-0.0118
5.764	1.8	0.3	3400.5	-0.0102
5.500	-189.7	-29.2	3375.8	-0.0067



5.000	-563.8	-86.9	3188.1	-0.0042
4.000	-1325.0	-204.2	2235.7	-0.0011
3.519	-1458.0	-224.6	1555.7	-0.0005
3.517	-1458.0	-224.6	1552.8	-0.0005
3.000	-1304.5	-201.0	825.6	-0.0001
2.000	-139.8	-21.5	8.2	0.0000
1.923	-1.8	-0.3	2.6	0.0000
1.921	0.0	0.0	0.0	0.0000
1.000	0.0	0.0	0.0	0.0000
0.000	0.0	0.0	0.0	0.0000
-1.000	0.0	0.0	0.0	0.0000
-2.000	0.0	0.0	0.0	0.0000
-2.749	0.0	0.0	0.0	0.0000
-2.750	0.0	0.0	0.0	0.0000

7/22

\*RUN COMPLETED\*

LIST MORE?

ALT-F10 HELP | VT-100 | HDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

4,

8/22

17th St. Outfall Canal

Sta. 625+25 To 635+00

Jefferson side (Q-78)

SWL = 14.1

F.S. = 1.0

LIST Q78

1	10003	3	0.14100000E+02	0.00000000E+01
2	10004	3	0.13100000E+02	0.62500000E+02
3	10005	3	0.12100000E+02	0.12500000E+03
4	10006	3	0.11100000E+02	0.18750000E+03
5	10007	3	0.10100000E+02	0.25000000E+03
6	10008	3	0.91000000E+01	0.31250000E+03
7	10009	3	0.81000000E+01	0.37500000E+03
8	10010	3	0.80000000E+01	0.38125000E+03
9	10011	3	0.80000000E+01	0.00000000E+01
10	10012	3	0.80000000E+01	-0.61875000E+03
11	10013	3	0.70000000E+01	-0.67625000E+03
12	10014	3	0.60000000E+01	-0.73375000E+03
13	10015	3	0.50000000E+01	-0.79125000E+03
14	10016	3	0.50000000E+01	-0.79125000E+03
15	10017	3	0.47177557E+01	-0.80747905E+03
16	10018	3	0.40357112E+01	0.00000000E+01
17	10019	3	0.24689088E+01	0.18549524E+04
18	10020	4	0.24689088E+01	0.00000000E+01
19	10021	0	0.24689088E+01	0.00000000E+01
20	10022	0.24689088E+01	0.00000000E+01	0.62803672E+02

NAME OF FILE  
CCGGMM7788

EDT..

BEAMS (SHEAR, MOMENT, DEFLECTION)

SEVENTEENTH ST. OUTFALL CANAL GDM I-WALL ANALYSIS  
STA

THE REFERENCE SYSTEM SELECTED DEFINES POSITIVE FORCES AS TO THE RIGHT  
INCREASING MEMBER COORDINATES AS UPWARD, AND POSITIVE MOMENTS  
AS CLOCKWISE.

THE MAXIMUM DEFLECTION IS **-0.08** INCHES AND OCCURS AT MEMBER COORDINATE  
16.10 FT.

PZ-22 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.

THE WEIGHT OF THIS VERTICAL MEMBER HAS BEEN NEGLECTED.

LIST MORE?

Y

ALT-F10 HELP | VT-100 | HDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

YY

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
2.47	POINT LD	0.00 LBF
2.47	COUPLE	-62.80 LBF-FT

INPUTTED LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
14.10	CONTN LD	0.00 LBF/SQ FT
13.10	CONTN LD	62.50 LBF/SQ FT
12.10	CONTN LD	125.00 LBF/SQ FT
11.10	CONTN LD	187.50 LBF/SQ FT

LIST MORE?

YY

ALT-F10 HELP | VT-100 | HDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

YY

10.10	CONTN LD	250.00 LBF/SQ FT
9.10	CONTN LD	312.50 LBF/SQ FT
8.10	CONTN LD	375.00 LBF/SQ FT
8.00	CONTN LD	381.25 LBF/SQ FT
8.00	CONTN LD	0.00 LBF/SQ FT
8.00	CONTN LD	-618.75 LBF/SQ FT
7.00	CONTN LD	-676.25 LBF/SQ FT
6.00	CONTN LD	-733.75 LBF/SQ FT
5.00	CONTN LD	-791.25 LBF/SQ FT
5.00	CONTN LD	-791.25 LBF/SQ FT
4.72	CONTN LD	-807.48 LBF/SQ FT
4.04	CONTN LD	0.00 LBF/SQ FT
2.47	CONTN LD	1854.95 LBF/SQ FT
2.47	CONTN LD	0.00 LBF/SQ FT

PZ-22 PROPERTIES ARE AS FOLLOWS.

MOMENT OF INERTIA= 63.38 IN. TO THE 4TH PER FOOT OF WALL

LIST MORE?

YY

ALT-F10 HELP | VT-100 | HDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

YY

CROSS SECTIONAL AREA= 6.49 SQ IN.  
 ELASTIC MODULUS= 29000000. LBF/SQ IN.  
 DEFLECTION REFERENCE IS AT 2.470

THE MAXIMUM BENDING MOMENT IS 3400.51 LBF-FT AND OCCURS AT 6.27  
 WHICH HAS THE SHEAR FORCE OF 5.65 LBF.

DISTANCE (FEET)	SHEAR FOR (LBF)	SHEAR STR (LBF/SQIN)	BENDING MOM (LBF-FT)	DEFLECTION FROM TANG. THRU DEFLE REFERENCE (INCHES)
16.100	0.0	0.0	0.0	-0.0766
16.099	0.0	0.0	0.0	-0.0766
16.000	0.0	0.0	0.0	-0.0759

14.000	0.3	0.0	0.0	-0.0624
13.000	37.8	5.8	13.9	-0.0557
12.000	137.8	21.2	96.5	-0.0489

LIST MORE?  
YY

ALT-F10 HELP | VT-100 | HDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?  
YY

11.000	300.3	46.3	310.3	-0.0422
10.000	525.3	80.9	717.9	-0.0354
9.000	812.8	125.2	1381.8	-0.0286
8.000	1162.8	179.2	2364.4	-0.0219
7.000	515.3	79.4	3208.2	-0.0151
6.269	5.7	0.9	3400.5	-0.0102
6.000	-189.7	-29.2	3375.8	-0.0067
5.000	-952.2	-146.7	2809.7	-0.0023
4.037	-1453.2	-223.9	1582.1	-0.0005
4.035	-1453.2	-223.9	1579.2	-0.0005
4.000	-1452.4	-223.8	1528.8	-0.0004
3.000	-818.2	-126.1	294.8	0.0000
2.470	-1.9	-0.3	62.8	0.0000
2.468	0.0	0.0	0.0	0.0000
2.000	0.0	0.0	0.0	0.0000
1.000	0.0	0.0	0.0	0.0000
0.000	0.0	0.0	0.0	0.0000
-1.000	0.0	0.0	0.0	0.0000
-2.000	0.0	0.0	0.0	0.0000
-2.749	0.0	0.0	0.0	0.0000

LIST MORE?  
YY

ALT-F10 HELP | VT-100 | HDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

5.000	-952.2	-146.7	2809.7	-0.0023
4.037	-1453.2	-223.9	1582.1	-0.0005
4.035	-1453.2	-223.9	1579.2	-0.0005
4.000	-1452.4	-223.8	1528.8	-0.0004
3.000	-818.2	-126.1	294.8	0.0000
2.470	-1.9	-0.3	62.8	0.0000
2.468	0.0	0.0	0.0	0.0000
2.000	0.0	0.0	0.0	0.0000
1.000	0.0	0.0	0.0	0.0000
0.000	0.0	0.0	0.0	0.0000
-1.000	0.0	0.0	0.0	0.0000
-2.000	0.0	0.0	0.0	0.0000
-2.749	0.0	0.0	0.0	0.0000

LIST MORE?  
YY

-2.750 0.0 0.0 0.0 0.0000

\*RUN COMPLETED\*

EGT..  
LIST MORE?

ALT-F10 HELP | VT-100 | HDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

5.

17<sup>th</sup> St. Outfall Canal  
Sta. 635+00 To 641+50  
SWL = 14.1  
F.S. = 1.0

Jefferson Side (Q79)

E>OU  
OK

LIST S77

1 10001 1 16.1 0. -1 10.1 0 1 9.5  
2 10002 PZ-22  
3 10003 29000000 6.49 63.38

EOT..

LIST Q79

1	10001	SEVENTEENTH ST. OUTFALL CANAL GDM ANALYSIS		
2	10002	STA. 635+00 TO 641+50		
3	003		3	0.14100000E+02 0.00000000E+01
4	10004		3	0.13100000E+02 0.62500000E+02
5	10005		3	0.12100000E+02 0.12500000E+03
6	10006		3	0.11500000E+02 0.16250000E+03
7	10007		3	0.11500000E+02 0.00000000E+01
8	10008		3	0.11500000E+02 -0.63750000E+03
9	10009		3	0.10884795E+02 -0.66672223E+03
10	10010		3	0.10573744E+02 0.00000000E+01

```

11 10011      3  0.10050366E+02  0.11219598E+04
12 10012      4  0.10050366E+02  0.00000000E+01
13 10013      0  0.10050366E+02  0.00000000E+01
14 10014      0  0.10050366E+02  0.29802322E-07  0.75358060E+01
EOT..

```

⌘-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

NAME OF FILE?  
CGM79

BEAMS (SHEAR, MOMENT, DEFLECTION)

SEVENTEENTH ST. OUTFALL CANAL GDM ANALYSIS  
STA

THE REFERENCE SYSTEM SELECTED DEFINES POSITIVE FORCES AS UPWARD  
INCREASING MEMBER COORDINATES AS TO THE LEFT, AND POSITIVE MOMENTS  
AS CLOCKWISE.

THE MAXIMUM DEFLECTION IS 0.00 INCHES AND OCCURS AT MEMBER COORDINATE  
16.10 FT.

FZ-22 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.

THE WEIGHT OF THIS HORIZONTAL MEMBER WILL BE CONSIDERED.

LIST MORE?

Y

⌘-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

Y

CALCULATED EXTERNAL LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
10.05	POINT LD	0.00 LBF
10.05	COUPLE	-7.54 LBF-FT

INPUTTED LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
14.10	CONTN LD	0.00 LBF/SQ FT
13.10	CONTN LD	62.50 LBF/SQ FT
12.10	CONTN LD	125.00 LBF/SQ FT
11.50	CONTN LD	162.50 LBF/SQ FT

LIST MORE?

Y

⌘-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

Y

11.50	CONTN LD	0.00 LBF/SQ FT
11.50	CONTN LD	-637.50 LBF/SQ FT
10.88	CONTN LD	-666.72 LBF/SQ FT
10.57	CONTN LD	0.00 LBF/SQ FT

PZ-22 PROPERTIES ARE AS FOLLOWS.

MOMENT OF INERTIA= 63.38 IN. TO THE 4TH PER FOOT OF WALL  
 CROSS SECTIONAL AREA= 6.49 SQ IN.  
 ELASTIC MODULUS= 29000000. LBF/SQ IN.  
 DEFLECTION REFERENCE IS AT 10.100

THE MAXIMUM BENDING MOMENT IS 217.80 LBF-FT AND OCCURS AT 11.17  
 WHICH HAS THE SHEAR FORCE OF 1.35 LBF.

LIST MORE?

Y

ALT-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

Y

DISTANCE (FEET)	SHEAR FOR (LBF)	SHEAR STR (LBF/SQIN)	BENDING MOM (LBF-FT)	DEFLECTION FROM TANG. THRU DEFLE REFERENCE (INCHES )
16.100	0.0	0.0	0.0	-0.0015
16.099	0.0	0.0	0.0	-0.0015
16.000	0.0	0.0	0.0	-0.0014
15.000	0.0	0.0	0.0	-0.0011
14.000	0.3	0.0	0.0	-0.0008
13.000	37.8	5.8	13.9	-0.0005
12.000	137.8	21.2	96.5	-0.0002
11.500	211.2	32.6	183.1	-0.0001
11.175	1.3	0.2	217.8	0.0000
11.000	-113.4	-17.5	208.0	0.0000
10.575	-293.6	-45.2	110.3	0.0000
10.573	-293.6	-45.2	109.7	0.0000
10.100	-53.0	-8.2	8.9	0.0000
10.051	-1.1	-0.2	7.5	0.0000
10.049	0.0	0.0	0.0	0.0000

LIST MORE?

Y

ALT-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

10.049	0.0	0.0	0.0	0.0000
--------	-----	-----	-----	--------

LIST MORE?

Y

10.000	0.0	0.0	0.0	0.0000
9.500	0.0	0.0	0.0	0.0000
9.000	0.0	0.0	0.0	0.0000
8.000	0.0	0.0	0.0	0.0000
7.000	0.0	0.0	0.0	0.0000
6.000	0.0	0.0	0.0	0.0000
5.000	0.0	0.0	0.0	0.0000
4.000	0.0	0.0	0.0	0.0000
3.000	0.0	0.0	0.0	0.0000
2.000	0.0	0.0	0.0	0.0000
1.000	0.0	0.0	0.0	0.0000
0.001	0.0	0.0	0.0	0.0000
0.000	0.0	0.0	0.0	0.0000

6.

17<sup>th</sup> St. outfall canal

Sta. 641+50 To 663+00

SWL = 14.6

F.S. = 1.0

Jefferson side (Q80)

LIST 080

1	10003	3	0.14600000E+02	0.00000000E+01
2	10004	3	0.13600000E+02	0.62500000E+02
3	10005	3	0.12600000E+02	0.12500000E+03
4	10006	3	0.12000000E+02	0.16250000E+03
5	10007	3	0.12000000E+02	0.00000000E+01
6	10008	3	0.12000000E+02	-0.10375000E+04
7	10009	3	0.11640972E+02	-0.10570671E+04
8	010	3	0.11327604E+02	0.00000000E+01
9	10011	3	0.10885019E+02	0.14929528E+04
10	10012	4	0.10885019E+02	0.00000000E+01
11	10013	0	0.10885019E+02	0.00000000E+01
12	10014	0.10885019E+02	0.89406967E-07	0.79294317E+01
EOT..				

E>DU

OK

LIST 577

1	10001	1	16.6	0.0	-1	10.9	0	-1	10.0
2	10002	PZ-22							
3	10003	29000000	6.49	63.38					
EOT..									

LIST 080

SEVENTEENTH ST. OUTFALL CANAL GDM I-WALL ANALYSIS									
STA. 641+50 TO 663+00									
3	003	3	0.14600000E+02	0.00000000E+01					
4	10004	3	0.13600000E+02	0.62500000E+02					
5	10005	3	0.12600000E+02	0.12500000E+03					
6	10006	3	0.12000000E+02	0.16250000E+03					
7	10007	3	0.12000000E+02	0.00000000E+01					
8	10008	3	0.12000000E+02	-0.10375000E+04					
9	10009	3	0.11640972E+02	-0.10570671E+04					
10	10010	3	0.11327604E+02	0.00000000E+01					



11 10011 3 0.10885019E+02 0.14929528E+04  
12 10012 4 0.10885019E+02 0.00000000E+01  
13 10013 0 0.10885019E+02 0.00000000E+01  
14 10014 0.10885019E+02 0.89406967E-07 0.79294317E+01  
EOT..

16/2:

⤴-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

\* HARRIS VERSION # 83/10/01 \*  
\*\*\*\*\*

BEAMS (SHEAR, MOMENT, DEFLECTION)

DO YOU WANT OUTPUT SAVED IN A FILE (YES/NO)?  
Y  
ENTER EITHER A NEW OR EXISTING OUTPUT FILE NAME UP TO 6 CHARACTERS.  
CGM80  
IS THE LOADING ON THE MEMBER TO BE READ FROM A FILE CREATED BY THE  
"CANTILEVER RETAINING WALL STABILITY" PROGRAM (YES/NO)?  
Y  
ENTER THE NAME OF THE FILE IN WHICH THE MEMBER LOADING IS STORED.  
Q80  
DO YOU WANT TO RUN AN EXISTING DATA FILE (YES/NO)?  
Y  
ENTER THE DATA FILE NAME.  
S77  
STOP 7774  
WOULD YOU LIKE TO LIST A FILE?

⤴-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

NAME OF FILE?  
CGM80

BEAMS (SHEAR, MOMENT, DEFLECTION)

SEVENTEENTH ST. OUTFALL CANAL GDM I-WALL ANALYSIS  
STA

THE REFERENCE SYSTEM SELECTED DEFINES POSITIVE FORCES AS TO THE RIGHT  
INCREASING MEMBER COORDINATES AS UPWARD, AND POSITIVE MOMENTS  
AS CLOCKWISE.

THE MAXIMUM DEFLECTION IS 0.00 INCHES AND OCCURS AT MEMBER COORDINATE  
16.60 FT.

PZ-22 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.

THE WEIGHT OF THIS VERTICAL MEMBER HAS BEEN NEGLECTED.  
LIST MORE?

Y ⤴-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?  
Y

CALCULATED EXTERNAL LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
10.89	POINT LD	0.00 LBF
10.89	COUPLE	-7.93 LBF-FT

17/22

INPUTTED LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
14.60	CONTN LD	0.00 LBF/SQ FT
13.60	CONTN LD	62.50 LBF/SQ FT
12.60	CONTN LD	125.00 LBF/SQ FT
12.00	CONTN LD	162.50 LBF/SQ FT

LIST MORE?

y

ALT-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

y

12.00	CONTN LD	0.00 LBF/SQ FT
12.00	CONTN LD	-1037.50 LBF/SQ FT
11.64	CONTN LD	-1057.07 LBF/SQ FT
11.33	CONTN LD	0.00 LBF/SQ FT
10.89	CONTN LD	1492.95 LBF/SQ FT
10.89	CONTN LD	0.00 LBF/SQ FT

PZ-22 PROPERTIES ARE AS FOLLOWS.

MOMENT OF INERTIA= 63.38 IN. TO THE 4TH PER FOOT OF WALL  
 CROSS SECTIONAL AREA= 6.49 SQ IN.  
 ELASTIC MODULUS= 29000000. LBF/SQ IN.  
 DEFLECTION REFERENCE IS AT 10.900

THE MAXIMUM BENDING MOMENT IS 202.67 LBF-FT AND OCCURS AT 11.74 WHICH HAS THE SHEAR FORCE OF -62.30 LBF.

LIST MORE?

y

ALT-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

y

DISTANCE (FEET)	SHEAR FOR (LBF)	SHEAR STR (LBF/SQIN)	BENDING MOM (LBF-FT)	DEFLECTION FROM TANG. THRU DEFLE REFERENCE (INCHES)
16.600	0.0	0.0	0.0	-0.0011
16.599	0.0	0.0	0.0	-0.0011
16.000	0.0	0.0	0.0	-0.0010
15.000	0.0	0.0	0.0	-0.0007
14.000	11.2	1.7	2.2	-0.0005
13.000	80.0	12.3	42.7	-0.0002
12.000	211.2	32.6	183.1	0.0000
11.738	-62.3	-9.6	202.7	0.0000
11.329	-330.4	-50.9	105.7	0.0000
11.327	-330.4	-50.9	105.1	0.0000
11.000	-149.4	-23.0	16.9	0.0000
10.900	-22.0	-3.4	8.1	0.0000
10.894	-1.5	-0.2	7.9	0.0000

10.884 0.0 0.0 0.0 0.0000  
10.000 0.0 0.0 0.0 0.0000

18/22

LIST MORE?

Y  
ALT-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

10.886 -1.5 -0.2 7.9 0.0000  
0.884 0.0 0.0 0.0 0.0000  
10.000 0.0 0.0 0.0 0.0000

LIST MORE?

Y  
9.000 0.0 0.0 0.0 0.0000  
8.000 0.0 0.0 0.0 0.0000  
7.000 0.0 0.0 0.0 0.0000  
6.000 0.0 0.0 0.0 0.0000  
5.000 0.0 0.0 0.0 0.0000  
4.000 0.0 0.0 0.0 0.0000  
3.000 0.0 0.0 0.0 0.0000  
2.000 0.0 0.0 0.0 0.0000  
1.000 0.0 0.0 0.0 0.0000  
0.001 0.0 0.0 0.0 0.0000  
0.000 0.0 0.0 0.0 0.0000

\*RUN COMPLETED\*

EOT.  
LIST MORE?

ALT-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

7.

17<sup>TH</sup> St. Outfall Canal

Sta. 663+00 To 670+00

SWL = 14.6

F.S. = 1.0

Jefferson side (Q81)

LIST S77

1 10001 1 16.6 -1.0 -1 10.5 0 -1 8.5  
 2 10002 PZ-22  
 3 10003 29000000 6.49 63.38  
 EDT..

LIST Q81

1 10001 SEVENTEENTH ST. OUTFALL CANAL GDM I-WALL ANALYSIS  
 2 10002 STA. 663+00 TO 670+00 SWL=14.6 F.S.=1.0  
 3 10003 3 0.14600000E+02 0.00000000E+01  
 4 10004 3 0.13600000E+02 0.62500000E+02  
 5 10005 3 0.12600000E+02 0.12500000E+03  
 6 10006 3 0.11600000E+02 0.18750000E+03  
 7 10007 3 0.10600000E+02 0.25000000E+03  
 8 10008 3 0.10500000E+02 0.25625000E+03  
 9 10009 3 0.10500000E+02 0.00000000E+01  
 10 10010 3 0.10500000E+02 -0.94375000E+03  
 11 10011 3 0.95964574E+01 -0.99299307E+03  
 12 10012 3 0.89389842E+01 0.00000000E+01  
 13 10013 3 0.79927868E+01 0.14290582E+04  
 14 10014 4 0.79927868E+01 0.00000000E+01  
 15 10015 0 0.79927868E+01 0.00000000E+01  
 16 10016 0.79927868E+01 -0.44703484E-07 0.11936982E+01  
 EDT..

ALT-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

WHICH CORPS PROGRAM DO YOU WANT TO RUN?  
X0015

20/2:

DISTANCE (FEET)	SHEAR FOR (LBF)	SHEAR STR (LBF/SQIN)	BENDING MOM (LBF-FT)	FROM TANG. THRU DEFLE REFERENCE (INCHES )
16.600	0.0	0.0	0.0	-0.0038
16.599	0.0	0.0	0.0	-0.0038
16.000	0.0	0.0	0.0	-0.0034
5.000	0.0	0.0	0.0	-0.0026
14.000	11.2	1.7	2.2	-0.0019
13.000	80.0	12.3	42.7	-0.0012
12.000	211.2	32.6	183.1	-0.0005
11.000	405.0	62.4	486.0	-0.0001
10.500	525.3	80.9	717.9	0.0000
10.000	46.6	7.2	861.5	-0.0001
9.935	-16.4	-2.5	862.5	-0.0001
9.000	-673.3	-103.7	468.9	-0.0008
8.940	-676.1	-104.2	428.3	-0.0009

LIST MORE?  
Y

ALT-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?  
Y

8.938	-676.1	-104.2	427.0	-0.0009
8.500	-530.6	-81.8	152.2	-0.0014
8.000	-10.3	-1.6	1.2	-0.0008
7.994	-1.4	-0.2	1.2	-0.0008
7.992	0.0	0.0	0.0	-0.0008
7.000	0.0	0.0	0.0	0.0004
6.000	0.0	0.0	0.0	0.0015
5.000	0.0	0.0	0.0	0.0027
4.000	0.0	0.0	0.0	0.0038
3.000	0.0	0.0	0.0	0.0050
2.000	0.0	0.0	0.0	0.0061
1.000	0.0	0.0	0.0	0.0073
0.000	0.0	0.0	0.0	0.0084
-0.999	0.0	0.0	0.0	0.0096
-1.000	0.0	0.0	0.0	0.0096

\*RUN COMPLETED\*

LIST MORE?

ALT-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

PZ-22 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.

21/22

THE WEIGHT OF THIS VERTICAL MEMBER HAS BEEN NEGLECTED.  
LIST MORE?

ALT-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

Y

CALCULATED EXTERNAL LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
7.99	POINT LD	0.00 LBF
7.99	COUPLE	-1.19 LBF-FT

INPUTTED LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
14.60	CONTN LD	0.00 LBF/SQ FT
13.60	CONTN LD	62.50 LBF/SQ FT
12.60	CONTN LD	125.00 LBF/SQ FT
11.60	CONTN LD	187.50 LBF/SQ FT

LIST MORE?

Y

ALT-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

Y\*

10.60	CONTN LD	250.00 LBF/SQ FT
10.50	CONTN LD	256.25 LBF/SQ FT
10.50	CONTN LD	0.00 LBF/SQ FT
10.50	CONTN LD	-943.75 LBF/SQ FT
9.60	CONTN LD	-992.99 LBF/SQ FT
8.94	CONTN LD	0.00 LBF/SQ FT
7.99	CONTN LD	1429.06 LBF/SQ FT
7.99	CONTN LD	0.00 LBF/SQ FT

PZ-22 PROPERTIES ARE AS FOLLOWS.

MOMENT OF INERTIA= 63.38 IN. TO THE 4TH PER FOOT OF WALL  
CROSS SECTIONAL AREA= 6.49 SQ IN.  
ELASTIC MODULUS= 29000000. LBF/SQ IN.  
DEFLECTION REFERENCE IS AT 10.500

THE MAXIMUM BENDING MOMENT IS ~~1862.46~~ 9862.46 LBF-FT AND OCCURS AT 9.94

LIST MORE?

Y

ALT-F10 HELP | VT-100 | FDX | 1200 N71 | LOG CLOSED | PRT OFF | CR | CR

LIST MORE?

Y

WHICH HAS THE SHEAR FORCE OF -16.38 LBF.

1 10001 17TH ST. CANAL G.D.M., Q-FILE : MET18A, FS= 1.5  
2 10002 STA 549+22 - 552+70 B/L, JEFFERSON SIDE, **TIED BACKWALL, PLATE #122**  
3 10003 3 0.36000000E+01 0.00000000E+01  
4 10004 3 0.35000000E+01 0.00000000E+01  
5 0005 3 0.35000000E+01 0.00000000E+01  
6 10006 3 0.25000000E+01 0.62500000E+02  
7 10007 3 0.15000000E+01 0.12500000E+03  
8 10008 3 0.50000000E+00 0.18750000E+03  
9 10009 3 0.00000000E+01 0.21875000E+03  
10 10010 3 0.00000000E+01 0.21875000E+03  
11 10011 3 -0.10000000E+01 0.28125000E+03  
12 10012 3 -0.20000000E+01 0.34375000E+03  
13 10013 3 -0.20000000E+01 0.00000000E+01  
14 10014 3 -0.20000000E+01 -0.29583333E+02  
15 10015 3 -0.30000000E+01 -0.67083333E+02  
16 10016 3 -0.40000000E+01 -0.10458333E+03  
17 10017 3 -0.50000000E+01 -0.14208333E+03  
18 10018 3 -0.50000000E+01 -0.14208333E+03  
19 10019 3 -0.60000000E+01 -0.17458333E+03  
20 10020 3 -0.70000000E+01 -0.20708333E+03  
21 10021 3 -0.71048040E+01 -0.21048946E+03  
22 10022 3 -0.71048040E+01 -0.15066667E+03  
23 10023 3 -0.80000000E+01 -0.15066667E+03  
24 10024 3 -0.90000000E+01 -0.15066667E+03  
25 10025 3 -0.10000000E+02 -0.15066667E+03  
26 10026 3 -0.11000000E+02 -0.15066667E+03  
27 10027 3 -0.12000000E+02 -0.15066667E+03  
28 10028 3 -0.12000000E+02 -0.57333333E+02  
29 10029 3 -0.12539636E+02 -0.52274249E+02  
30 10030 3 -0.12539636E+02 -0.52274249E+02  
31 10031 3 -0.13000000E+02 -0.47958333E+02  
32 10032 3 -0.13000000E+02 -0.47958334E+02  
33 10033 3 -0.14000000E+02 -0.38583333E+02  
34 10034 3 -0.15000000E+02 -0.29208333E+02  
35 10035 3 -0.16000000E+02 -0.19833333E+02  
36 10036 3 -0.17000000E+02 -0.10458333E+02  
37 10037 3 -0.18000000E+02 -0.10833333E+01  
38 10038 3 -0.19000000E+02 0.82916667E+01  
39 10039 3 -0.20000000E+02 0.17666667E+02  
40 10040 3 -0.20579775E+02 0.23102058E+02  
41 10041 3 -0.20567623E+02 0.00000000E+01  
42 10042 3 -0.21380066E+02 0.15445440E+04  
43 10043 4 -0.21380066E+02 0.00000000E+01  
44 10044 0 -0.21380066E+02 0.00000000E+01  
45 10045 -0.21380066E+02 0.59659593E+02 0.59167135E+02

EDT..

LIST PZ-27

1 100 2 3.5 -21.38 1 -21.38 0 -1 2.6

2 200 PZ-27

3 300 29000000 7.94 184.2

4 400 -21.38 2.6

EDT..

DISPLAY OUTPUT

BEAMS (SHEAR, MOMENT, DEFLECTION)

17TH ST. CANAL G.D.M., Q-FILE : MET18A, FS= 1.5

A 5

THE REFERENCE SYSTEM SELECTED DEFINES POSITIVE FORCES AS TO THE LEFT

INCREASING MEMBER COORDINATES AS UPWARD, AND POSITIVE MOMENTS AS COUNTERCLOCKWISE.

THE MAXIMUM DEFLECTION IS 0.29 INCHES AND OCCURS AT MEMBER COORDINATE 2.60 FT.

L-27 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.

THE WEIGHT OF THIS VERTICAL MEMBER HAS BEEN NEGLECTED.

#### CALCULATED EXTERNAL LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
-21.38	POINT LD	-56.72 LBF
2.60	POINT LD	-3.22 LBF

#### INPUTTED LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
3.60	CONTN LD	0.00 LBF/SQ FT
3.50	CONTN LD	0.00 LBF/SQ FT
3.50	CONTN LD	0.00 LBF/SQ FT
2.50	CONTN LD	62.50 LBF/SQ FT
1.50	CONTN LD	125.00 LBF/SQ FT
0.50	CONTN LD	187.50 LBF/SQ FT
0.00	CONTN LD	218.75 LBF/SQ FT
0.00	CONTN LD	218.75 LBF/SQ FT
-1.00	CONTN LD	281.25 LBF/SQ FT
-2.00	CONTN LD	343.75 LBF/SQ FT
-2.00	CONTN LD	0.00 LBF/SQ FT
-2.00	CONTN LD	-29.58 LBF/SQ FT
-3.00	CONTN LD	-67.08 LBF/SQ FT
-4.00	CONTN LD	-104.58 LBF/SQ FT
-5.00	CONTN LD	-142.08 LBF/SQ FT
-5.00	CONTN LD	-142.08 LBF/SQ FT
-6.00	CONTN LD	-174.58 LBF/SQ FT
-7.00	CONTN LD	-207.08 LBF/SQ FT
-7.10	CONTN LD	-210.49 LBF/SQ FT
-7.10	CONTN LD	-150.67 LBF/SQ FT
-8.00	CONTN LD	-150.67 LBF/SQ FT
-9.00	CONTN LD	-150.67 LBF/SQ FT
-10.00	CONTN LD	-150.67 LBF/SQ FT
-11.00	CONTN LD	-150.67 LBF/SQ FT
-12.00	CONTN LD	-150.67 LBF/SQ FT
-12.00	CONTN LD	-57.33 LBF/SQ FT
-12.54	CONTN LD	-52.27 LBF/SQ FT
-12.54	CONTN LD	-52.27 LBF/SQ FT
-13.00	CONTN LD	-47.96 LBF/SQ FT
-13.00	CONTN LD	-47.96 LBF/SQ FT
-14.00	CONTN LD	-38.58 LBF/SQ FT
-15.00	CONTN LD	-29.21 LBF/SQ FT
-16.00	CONTN LD	-19.83 LBF/SQ FT
-17.00	CONTN LD	-10.46 LBF/SQ FT
-18.00	CONTN LD	-1.08 LBF/SQ FT
-19.00	CONTN LD	0.00 LBF/SQ FT



-20.00	CONTN LD	17.67	LBF/SQ FT
-20.58	CONTN LD	23.10	LBF/SQ FT
-20.57	CONTN LD	0.00	LBF/SQ FT
-21.38	CONTN LD	1544.54	LBF/SQ FT
-21.38	CONTN LD	0.00	LBF/SQ FT

$$f_b = \frac{5.65'k(12)}{30.2 \text{ in}^3/\text{ft}} = 2.25 \text{ ksi}$$

$$f_v = \frac{.894k}{3 \text{ in}^3} = .3 \text{ ksi}$$

$$PZ-2) S_x = 30.2 \text{ in}^3/\text{ft}$$

$$A_v = 3 \text{ in}^3/\text{ft}$$

27

PROPERTIES ARE AS FOLLOWS.

MOMENT OF INERTIA= 184.20 IN. TO THE 4TH PER FOOT OF WALL  
 CROSS SECTIONAL AREA= 7.94 SQ IN.  
 ELASTIC MODULUS= 29000000. LBF/SQ IN.  
 DEFLECTION REFERENCE IS AT -21.380

THE MAXIMUM BENDING MOMENT IS 5644.61 LBF-FT AND OCCURS AT -9.19  
 WHICH HAS THE SHEAR FORCE OF 0.00 LBF.

DISTANCE (FEET)	SHEAR FOR (LBF)	SHEAR STR (LBF/SQIN)	BENDING MOM (LBF-FT)	DEFLECTION	DEFL.FROM A
				FROM TANG. THRU DEFLE REFERENCE (INCHES)	PARALLEL TO THE UNDEFORMED AXIS & THRU DEFL REF NOTE SIGN (IN.)
3.500	0.00	0.00	0.00	0.2703	-0.0320
3.499	0.00	0.00	0.00	0.2703	-0.0320
3.000	7.81	0.98	1.30	0.2820	-0.0142
2.600	22.09	2.78	7.59	0.2914	0.0000
2.000	67.09	8.45	33.22	0.2773	-0.0068
1.000	192.09	24.19	157.61	0.2539	-0.0180
0.000	379.59	47.81	438.24	0.2306	-0.0292
1.000	629.59	79.29	937.63	0.2074	-0.0402
-2.000	942.09	118.65	1718.26	0.1846	-0.0509
-3.000	893.76	112.56	2639.31	0.1623	-0.0610
-4.000	807.93	101.75	3493.28	0.1408	-0.0703
-5.000	684.59	86.22	4242.66	0.1205	-0.0785
-6.000	526.26	66.28	4850.80	0.1016	-0.0853
-7.000	335.43	42.25	5284.35	0.0842	-0.0906
-8.000	178.67	22.50	5538.67	0.0685	-0.0941
-9.000	28.00	3.53	5642.01	0.0546	-0.0959
-9.186	0.00	0.00	5644.61	0.0522	-0.0960
-10.000	-122.67	-15.45	5594.68	0.0425	-0.0958
-11.000	-273.33	-34.42	5396.68	0.0322	-0.0940
-12.000	-424.00	-53.40	5048.01	0.0236	-0.0904
-13.000	-476.64	-60.03	4596.91	0.0167	-0.0851
-14.000	-519.92	-65.48	4097.85	0.0112	-0.0784
-15.000	-553.81	-69.75	3560.20	0.0071	-0.0704
-16.000	-578.33	-72.84	2993.35	0.0042	-0.0612
-17.000	-593.48	-74.75	2406.66	0.0022	-0.0511
-18.000	-599.25	-75.47	1809.52	0.0009	-0.0401
-19.000	-595.64	-75.02	1211.29	0.0003	-0.0286
-20.000	-582.67	-73.38	621.36	0.0000	-0.0167
-20.567	-571.15	-71.93	294.32	0.0000	-0.0099
-20.569	-571.10	-71.93	293.18	0.0000	-0.0099
-21.000	-393.00	-49.50	72.60	0.0000	-0.0046
.379	55.07	6.94	-0.06	0.0000	0.0000
-21.380	0.00	0.00	0.00	0.0000	0.0000

\*RUN COMPLETED\*

DISPLAY MET18B

10001 17TH ST. CANAL G.D.M., Q-FILE: MET18B, Q-CASE, FS=1.0

10002 STA 549+22 - 552+70 B/L, JEFFERSON SIDE

10003	3	0.36000000E+01	0.00000000E+01
10004	3	0.35000000E+01	0.00000000E+01
10005	3	0.35000000E+01	0.00000000E+01
10006	3	0.25000000E+01	0.62500000E+02
10007	3	0.15000000E+01	0.12500000E+03
10008	3	0.50000000E+00	0.18750000E+03
10009	3	0.00000000E+01	0.21875000E+03
10010	3	0.00000000E+01	0.21875000E+03
10011	3	-0.10000000E+01	0.28125000E+03
10012	3	-0.20000000E+01	0.34375000E+03
10013	3	-0.20000000E+01	0.00000000E+01
10014	3	-0.20000000E+01	-0.21625000E+03
10015	3	-0.30000000E+01	-0.25375000E+03
10016	3	-0.40000000E+01	-0.29125000E+03
10017	3	-0.50000000E+01	-0.32875000E+03
10018	3	-0.50000000E+01	-0.32875000E+03
10019	3	-0.60000000E+01	-0.36125000E+03
10020	3	-0.70000000E+01	-0.39375000E+03
10021	3	-0.80000000E+01	-0.42625000E+03
10022	3	-0.82200655E+01	-0.43340213E+03
10023	3	-0.87223870E+01	0.00000000E+01

10024 3 -0.10395855E+02 0.14438653E+04

10025 4 -0.10395855E+02 0.00000000E+01

10026 0 -0.10395855E+02 0.00000000E+01

10027 -0.10395855E+02 0.44703484E-07 0.16981868E+02

EOT..

DISPLAY PZ-27

1 2 3.5 -10.39 1 -10.39 0 -1 2.6

200 PZ-27

300 29000000 7.94 184.2

400 -10.39 2.6

EOT..

DISPLAY OUTPUT

BEAMS (SHEAR, MOMENT, DEFLECTION)

17TH ST. CANAL G.D.M., Q-FILE: MET18B, Q-CASE, FS=1.0

A 5

THE REFERENCE SYSTEM SELECTED DEFINES POSITIVE FORCES AS TO THE LEFT INCREASING MEMBER COORDINATES AS UPWARD, AND POSITIVE MOMENTS AS COUNTERCLOCKWISE.

THE MAXIMUM DEFLECTION IS 0.05 INCHES AND OCCURS AT MEMBER COORDINATE 2.60 FT.

Z-27 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.

WEIGHT OF THIS VERTICAL MEMBER HAS BEEN NEGLECTED.

CALCULATED EXTERNAL LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
------------------------------	--------------	-------------------

-10.40 POINT LD 9.74 LBF  
 2.60 POINT LD -1.30 LBF

INPUTTED LOADS

STANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
3.60	CONTN LD	0.00 LBF/SQ FT
3.50	CONTN LD	0.00 LBF/SQ FT
3.50	CONTN LD	0.00 LBF/SQ FT
2.50	CONTN LD	62.50 LBF/SQ FT
1.50	CONTN LD	125.00 LBF/SQ FT
0.50	CONTN LD	187.50 LBF/SQ FT
0.00	CONTN LD	218.75 LBF/SQ FT
0.00	CONTN LD	218.75 LBF/SQ FT
-1.00	CONTN LD	281.25 LBF/SQ FT
-2.00	CONTN LD	343.75 LBF/SQ FT
-2.00	CONTN LD	0.00 LBF/SQ FT
-2.00	CONTN LD	-216.25 LBF/SQ FT
-3.00	CONTN LD	-253.75 LBF/SQ FT
-4.00	CONTN LD	-291.25 LBF/SQ FT
-5.00	CONTN LD	-328.75 LBF/SQ FT
-5.00	CONTN LD	-328.75 LBF/SQ FT
-6.00	CONTN LD	-361.25 LBF/SQ FT
-7.00	CONTN LD	-393.75 LBF/SQ FT
-8.00	CONTN LD	-426.25 LBF/SQ FT
-8.22	CONTN LD	-433.40 LBF/SQ FT
-8.72	CONTN LD	0.00 LBF/SQ FT
-10.40	CONTN LD	1443.87 LBF/SQ FT
-10.40	CONTN LD	0.00 LBF/SQ FT

*FS=1.5 case governs*

Z-27 PROPERTIES ARE AS FOLLOWS.

MOMENT OF INERTIA= 184.20 IN. TO THE 4TH PER FOOT OF WALL  
 CROSS SECTIONAL AREA= 7.94 SQ IN.  
 ELASTIC MODULUS= 29000000. LBF/SQ IN.  
 DEFLECTION REFERENCE IS AT -10.390

THE MAXIMUM BENDING MOMENT IS 3441.24 LBF-FT AND OCCURS AT -5.37  
 WHICH HAS THE SHEAR FORCE OF 3.77 LBF.

DISTANCE (FEET)	SHEAR FOR (LBF)	SHEAR STR (LBF/SQIN)	BENDING MOM (LBF-FT)	DEFLECTION FROM TANG. THRU DEFLE REFERENCE (INCHES)	DEFL.FROM A PARALLEL TO THE UNDEFORMED AXIS & THRU DEFL REF NOTE SIGN (IN.)
3.500	0.00	0.00	0.00	0.0477	-0.0101
3.499	0.00	0.00	0.00	0.0477	-0.0101
3.000	7.81	0.98	1.30	0.0512	-0.0045
2.600	24.01	3.02	7.59	0.0541	0.0000
2.000	69.01	8.69	34.37	0.0498	-0.0018
1.000	194.01	24.43	160.67	0.0427	-0.0047
0.000	381.51	48.05	443.22	0.0356	-0.0076
-1.000	631.51	79.53	944.52	0.0287	-0.0103
-2.000	944.01	118.89	1727.07	0.0222	-0.0128
-3.000	709.01	89.30	2556.70	0.0161	-0.0146
-4.000	477.51	59.00	3132.59	0.0109	-0.0156

-5.000	126.51	15.93	3417.22	0.0067	-0.0157
-5.367	3.77	0.48	3441.24	0.0055	-0.0154
-6.000	-218.49	-27.52	3373.93	0.0036	-0.0146
-7.000	-595.99	-75.06	2969.40	0.0016	-0.0125
-8.000	-1005.99	-126.70	2171.12	0.0005	-0.0095
-8.721	-1209.44	-152.32	1351.26	0.0001	-0.0068
8.723	-1209.44	-152.32	1348.84	0.0001	-0.0068
-9.000	-1176.19	-148.13	1017.38	0.0001	-0.0057
-10.000	-505.27	-63.64	104.75	0.0000	-0.0016
-10.389	-11.18	-1.41	0.07	0.0000	0.0000
-10.390	-9.74	-1.23	0.06	0.0000	0.0000

\*RUN COMPLETED\*

EOT..  
QUIT

~~JOBCTRL ER 117 : INVALID JCL OR PROGRAM NAME.~~  
BYE

~~\*\*\*\*\* TERMINAL SIGNOFF FROM PDN 63 \*\*\*\*\*~~

SESSION 204,CPU SEC= 44.92,DISC REQ= 1837,I/O REQ= 7996,COST=\$126.17

USER BALANCE REMAINING= NO LIMIT

\*\* GOOD DAY C.LABORDE KN, IT'S 17 APR 90 12:00:47

CPU TIME= 0 MINS 45.03 SECS

CONNECT TIME= 4 HOURS 9 MINS 38.00 SECS

D CONNECTED-OTHER END

CALL STATUS: Idle

Use space bar to position cursor, then press "return"

~~[ call ] [view options] [set options]~~