(A0007162)

FS=1.0

LISTH JR1C

08/18/83 11.56

```
1110 1 34.0 -16.14 1 -16.14 0 -1
1120 PZ-38
1130 29000000 11.2 280.0

*FRN WESLIB/CORPS/X0015,R@E
                    BEAMS (SHEAR, MOMENT, DEFLECTION)

DO YOU WANT OUTPUT SAVED IN A FILE (YES/NO)?
=NO
IS THE LOADING ON THE MEMBER TO BE READ FROM A FILE CREATED BY THE
"CANTILEVER RETAINING WALL STABILITY" PROGRAM (YES/NO)?
=YES
ENTER THE NAME OF THE FILE IN WHICH THE MEMBER LOADING IS STORED.
=LT61
DO YOU WANT TO RUN AN EXISTING DATA FILE (YES/NO)?
=YES
ENTER THE DATA FILE NAME.
=JR1C
                    BEAMS (SHEAR, MOMENT, DEFLECTION)

7TH ST OUTFALL CANAL
STA 539 TO 554 ORLEANS SIDE

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   3.50 INCHES AND OCCURS AT MEMBER COORDINATE
 34.00 FT.

PZ-38          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
-4.00	POINT LD	-3.02 LBF
-4.00	COUPLE	27.17 LBF-FT

INPUTTED LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
34.00	CONTN LD	0. LBF/SQ FT
33.00	CONTN LD	62.50 LBF/SQ FT
32.00	CONTN LD	125.00 LBF/SQ FT
31.00	CONTN LD	187.50 LBF/SQ FT
30.00	CONTN LD	250.00 LBF/SQ FT
29.00	CONTN LD	312.50 LBF/SQ FT
28.00	CONTN LD	375.00 LBF/SQ FT
27.00	CONTN LD	437.50 LBF/SQ FT
26.00	CONTN LD	500.00 LBF/SQ FT
26.00	CONTN LD	500.00 LBF/SQ FT
25.00	CONTN LD	408.70 LBF/SQ FT
24.00	CONTN LD	315.47 LBF/SQ FT
23.00	CONTN LD	220.25 LBF/SQ FT
22.00	CONTN LD	125.03 LBF/SQ FT
21.00	CONTN LD	29.80 LBF/SQ FT
20.69	CONTN LD	0. LBF/SQ FT
20.00	CONTN LD	-65.42 LBF/SQ FT
19.00	CONTN LD	-160.65 LBF/SQ FT
18.50	CONTN LD	-208.26 LBF/SQ FT
18.50	CONTN LD	-208.26 LBF/SQ FT
17.50	CONTN LD	-257.37 LBF/SQ FT
16.50	CONTN LD	-306.48 LBF/SQ FT
15.50	CONTN LD	-355.59 LBF/SQ FT
14.50	CONTN LD	-404.70 LBF/SQ FT
13.50	CONTN LD	-453.81 LBF/SQ FT
12.50	CONTN LD	-502.92 LBF/SQ FT
11.50	CONTN LD	-552.03 LBF/SQ FT
10.50	CONTN LD	-601.14 LBF/SQ FT
9.50	CONTN LD	-650.25 LBF/SQ FT
8.50	CONTN LD	-699.36 LBF/SQ FT
7.50	CONTN LD	-748.47 LBF/SQ FT
6.50	CONTN LD	-797.59 LBF/SQ FT
6.29	CONTN LD	-807.66 LBF/SQ FT
2.54	CONTN LD	0. LBF/SQ FT
-4.00	CONTN LD	1408.39 LBF/SQ FT
-4.00	CONTN LD	0. LBF/SQ FT

PZ-38 PROPERTIES ARE AS FOLLOWS.

MOMENT OF INERTIA= 280.00 IN. TO THE 4TH PER FOOT OF WALL
CROSS SECTIONAL AREA= 11.20 SQ IN.
ELASTIC MODULUS= 29000000. LBF/SQ IN.
DEFLECTION REFERENCE IS AT -16.140

THE MAXIMUM BENDING MOMENT IS 41881.27 LBF-FT AND OCCURS AT 10.72
WHICH HAS THE SHEAR FORCE OF 4.95 LBF.

DISTANCE (FEET)	SHEAR FOR (LBF)	SHEAR STR (LBF/SQIN)	BENDING MOM (LBF-FT)	DEFLECTION FROM TANG. THRU DEFLE REFERENCE (INCHES)
34.000	0.	0.	0.	3.4957
33.999	0.0	0.0	0.0	3.4957
33.000	31.3	2.8	10.4	3.3368
32.000	125.0	11.2	83.3	3.1777
31.000	281.3	25.1	281.3	3.0187
30.000	500.0	44.6	666.7	2.8597
29.000	781.3	69.8	1302.1	2.7008
28.000	1125.0	100.4	2250.0	2.5423
27.000	1531.3	136.7	3572.9	2.3842
26.000	2000.0	178.6	5333.3	2.2270
25.000	2454.3	219.1	7568.1	2.0708
24.000	2816.4	251.5	10211.3	1.9163
23.000	3084.3	275.4	13169.6	1.7640
22.000	3256.9	290.8	16348.1	1.6145
21.000	3334.3	297.7	19651.7	1.4685
20.687	3339.0	298.1	20696.2	1.4236
20.000	3316.5	296.1	22985.1	1.3266
19.000	3203.5	286.0	26253.0	1.1897
18.000	3001.0	267.9	29361.3	1.0583
17.000	2743.6	245.0	32237.7	0.9332
16.000	2437.2	217.6	34832.2	0.8149
15.000	2081.6	185.9	37095.7	0.7040
14.000	1676.9	149.7	38979.0	0.6010
13.000	1223.1	109.2	40433.1	0.5063
12.000	720.1	64.3	41408.8	0.4201
11.000	168.1	15.0	41857.0	0.3428
10.720	4.9	0.4	41881.3	0.3228
10.000	-433.0	-38.7	41728.6	0.2743
9.000	-1083.3	-96.7	40974.5	0.2147
8.000	-1782.6	-159.2	39545.7	0.1639
7.000	-2531.1	-226.0	37392.9	0.1214
6.000	-3317.2	-296.2	34468.2	0.0868
5.000	-3953.7	-353.0	30814.8	0.0595
4.000	-4374.9	-390.6	26632.5	0.0388
3.000	-4580.8	-409.0	22136.7	0.0237
2.545	-4603.2	-411.0	20044.5	0.0185
2.543	-4603.2	-411.0	20035.3	0.0185
2.000	-4571.4	-408.2	17542.6	0.0134
1.000	-4346.7	-388.1	13065.6	0.0067
0.	-3906.6	-348.8	8921.0	0.0029
-1.000	-3251.3	-290.3	5324.2	0.0010
-2.000	-2380.6	-212.6	2490.3	0.0002
-3.000	-1294.6	-115.6	634.7	0.0000
-3.996	1.6	0.1	-27.2	0.0000
-3.998	-0.0	-0.0	0.0	0.0000
-4.000	-0.0	-0.0	0.0	0.0000
-5.000	-0.0	-0.0	0.0	0.0000
-6.000	-0.0	-0.0	0.0	0.0000
-7.000	-0.0	-0.0	0.0	0.0000
-8.000	-0.0	-0.0	0.0	0.0000
-9.000	-0.0	-0.0	0.0	0.0000
-10.000	-0.0	-0.0	0.0	0.0000
-11.000	-0.0	-0.0	0.0	0.0000
-12.000	-0.0	-0.0	0.0	0.0000
-13.000	-0.0	-0.0	0.0	0.0000
-14.000	-0.0	-0.0	0.0	0.0000
-15.000	-0.0	-0.0	0.0	0.0000
-16.000	-0.0	-0.0	0.0	0.
-16.139	-0.0	-0.0	0.0	0.
-16.140	-0.0	-0.0		

FS = 1.0

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LISTH JR1B

08/18/83     11.46


1110 1 34.0 -16.14 1 -16.14 0 -1
1120 PZ-27
1130 29000000 7.94 184.2


*FRN WESLIB/CORPS/X0015,E

                    BEAMS (SHEAR, MOMENT, DEFLECTION)

DO YOU WANT OUTPUT SAVED IN A FILE (YES/NO)?
=NO
IS THE LOADING ON THE MEMBER TO BE READ FROM A FILE CREATED BY THE
"CANTILEVER RETAINING WALL STABILITY" PROGRAM (YES/NO)?
=YES
ENTER THE NAME OF THE FILE IN WHICH THE MEMBER LOADING IS STORED.
=LT61
DO YOU WANT TO RUN AN EXISTING DATA FILE (YES/NO)?
=YES
ENTER THE DATA FILE NAME.
=JR1B

                    BEAMS (SHEAR, MOMENT, DEFLECTION)

7TH ST OUTFALL CANAL
STA 539 TO 554 ORLEANS SIDE

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    5.31 INCHES AND OCCURS AT MEMBER COORDINATE
 34.00 FT.


PZ-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
-4.00	POINT LD	-3.02 LBF
@ -4.00	COUPLE	27.17 LBF-FT

INPUTTED LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
34.00	CONTN LD	0. LBF/SQ FT
33.00	CONTN LD	62.50 LBF/SQ FT
32.00	CONTN LD	125.00 LBF/SQ FT
31.00	CONTN LD	187.50 LBF/SQ FT
30.00	CONTN LD	250.00 LBF/SQ FT
29.00	CONTN LD	312.50 LBF/SQ FT
28.00	CONTN LD	375.00 LBF/SQ FT
27.00	CONTN LD	437.50 LBF/SQ FT
26.00	CONTN LD	500.00 LBF/SQ FT
26.00	CONTN LD	500.00 LBF/SQ FT
25.00	CONTN LD	408.70 LBF/SQ FT
24.00	CONTN LD	315.47 LBF/SQ FT
23.00	CONTN LD	220.25 LBF/SQ FT
22.00	CONTN LD	125.03 LBF/SQ FT
21.00	CONTN LD	29.80 LBF/SQ FT
20.69	CONTN LD	0. LBF/SQ FT
20.00	CONTN LD	-65.42 LBF/SQ FT
19.00	CONTN LD	-160.65 LBF/SQ FT
18.50	CONTN LD	-208.26 LBF/SQ FT
18.50	CONTN LD	-208.26 LBF/SQ FT
17.50	CONTN LD	-257.37 LBF/SQ FT
16.50	CONTN LD	-306.48 LBF/SQ FT
15.50	CONTN LD	-355.59 LBF/SQ FT
14.50	CONTN LD	-404.70 LBF/SQ FT
13.50	CONTN LD	-453.81 LBF/SQ FT
12.50	CONTN LD	-502.92 LBF/SQ FT
11.50	CONTN LD	-552.03 LBF/SQ FT
10.50	CONTN LD	-601.14 LBF/SQ FT
9.50	CONTN LD	-650.25 LBF/SQ FT
8.50	CONTN LD	-699.36 LBF/SQ FT
7.50	CONTN LD	-748.47 LBF/SQ FT
6.50	CONTN LD	-797.59 LBF/SQ FT
6.29	CONTN LD	-807.66 LBF/SQ FT
2.54	CONTN LD	0. LBF/SQ FT
-4.00	CONTN LD	1408.39 LBF/SQ FT
-4.00	CONTN LD	0. LBF/SQ FT

PZ-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.
REFLECTION REFERENCE IS AT -16.140

THE MAXIMUM BENDING MOMENT IS 41881.27 LBF-FT AND OCCURS AT 10.72
WHICH HAS THE SHEAR FORCE OF 4.95 LBF.

DISTANCE (FEET)	SHEAR FOR (LBF)	SHEAR STR (LBF/SQIN)	BENDING MOM (LBF-FT)	DEFLECTION FROM TANG. THRU DEFLE REFERENCE (INCHES)
34.000	0.	0.	0.	5.3138
33.999	0.0	0.0	0.0	5.3138
33.000	31.3	3.9	10.4	5.0722
32.000	125.0	15.7	83.3	4.8304
31.000	281.3	35.4	281.3	4.5886
30.000	500.0	63.0	666.7	4.3470
29.000	781.3	98.4	1302.1	4.1055
28.000	1125.0	141.7	2250.0	3.8645
27.000	1531.3	192.9	3572.9	3.6242
26.000	2000.0	251.9	5333.3	3.3852
25.000	2454.3	309.1	7568.1	3.1478
24.000	2816.4	354.7	10211.3	2.9130
23.000	3084.3	388.5	13169.6	2.6814
22.000	3256.9	410.2	16348.1	2.4542
21.000	3334.3	419.9	19651.7	2.2322
20.687	3339.0	420.5	20696.2	2.1640
20.000	3316.5	417.7	22985.1	2.0166
19.000	3203.5	403.5	26253.0	1.8084
18.000	3001.0	378.0	29361.3	1.6087
17.000	2743.6	345.5	32237.7	1.4185
16.000	2437.2	306.9	34832.2	1.2387
15.000	2081.6	262.2	37095.7	1.0701
14.000	1676.9	211.2	38979.0	0.9135
13.000	1223.1	154.0	40433.1	0.7696
12.000	720.1	90.7	41408.8	0.6386
11.000	168.1	21.2	41857.0	0.5211
10.720	4.9	0.6	41881.3	0.4906
10.000	-433.0	-54.5	41728.6	0.4170
9.000	-1083.3	-136.4	40974.5	0.3264
8.000	-1782.6	-224.5	39545.7	0.2491
7.000	-2531.1	-318.8	37392.9	0.1845
6.000	-3317.2	-417.8	34468.2	0.1319
5.000	-3953.7	-498.0	30814.8	0.0905
4.000	-4374.9	-551.0	26632.5	0.0590
3.000	-4580.8	-576.9	22136.7	0.0361
2.545	-4603.2	-579.8	20044.5	0.0281
2.543	-4603.2	-579.8	20035.3	0.0281
2.000	-4571.4	-575.7	17542.6	0.0203
1.000	-4346.7	-547.4	13065.6	0.0103
0.	-3906.6	-492.0	8921.0	0.0044
-1.000	-3251.3	-409.5	5324.2	0.0015
-2.000	-2380.6	-299.8	2490.3	0.0003
-3.000	-1294.6	-163.0	634.7	0.0000
-3.996	1.6	0.2	-27.2	0.0000
-3.998	-0.0	-0.0	0.0	0.0000
-4.000	-0.0	-0.0	0.0	0.0000
-5.000	-0.0	-0.0	0.0	0.0000
-6.000	-0.0	-0.0	0.0	0.0000
-7.000	-0.0	-0.0	0.0	0.0000
-8.000	-0.0	-0.0	0.0	0.0000
-9.000	-0.0	-0.0	0.0	0.0000
-10.000	-0.0	-0.0	0.0	0.0000
-11.000	-0.0	-0.0	0.0	0.0000
-12.000	-0.0	-0.0	0.0	0.0000
-13.000	-0.0	-0.0	0.0	0.0000
-14.000	-0.0	-0.0	0.0	0.0000
-15.000	-0.0	-0.0	0.0	0.0000
-16.000	-0.0	-0.0	0.0	0.
-16.139	-0.0	-0.0	0.0	0.

FS = 1.0

```
LISTH JR3A

08/18/83     11.71


1110 1 34.0 -17.9 1 -17.9 0 -1
1120 PZ-22
1130 29000000 6.47 84.38


*FRN WESLIB/CORPS/X0015,E
                    BEAMS (SHEAR, MOMENT, DEFLECTION)

DO YOU WANT OUTPUT SAVED IN A FILE (YES/NO)?
=NO
IS THE LOADING ON THE MEMBER TO BE READ FROM A FILE CREATED BY THE
"CANTILEVER RETAINING WALL STABILITY" PROGRAM (YES/NO)?
=YES
ENTER THE NAME OF THE FILE IN WHICH THE MEMBER LOADING IS STORED.
=LT11
DO YOU WANT TO RUN AN EXISTING DAPA FILE (YES/NO)?
=YES
ENTER THE DATA FILE NAME.
=JR3A
                    BEAMS (SHEAR, MOMENT, DEFLECTION)

7TH ST OUTFALL CANAL
STA 554 TO 589

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    3.54 INCHES AND OCCURS AT MEMBER COORDINATE
 34.00 FT.


PZ-22          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
5.80	POINT LD	-0.00 LBF
5.80	COUPLE	-31.13 LBF-FT

INPUTTED LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
34.00	CONTN LD	0. LBF/SQ FT
33.00	CONTN LD	62.50 LBF/SQ FT
32.00	CONTN LD	125.00 LBF/SQ FT
31.00	CONTN LD	187.50 LBF/SQ FT
30.00	CONTN LD	250.00 LBF/SQ FT
29.00	CONTN LD	312.50 LBF/SQ FT
28.00	CONTN LD	375.00 LBF/SQ FT
27.00	CONTN LD	437.50 LBF/SQ FT
26.00	CONTN LD	500.00 LBF/SQ FT
26.00	CONTN LD	500.00 LBF/SQ FT
25.00	CONTN LD	314.87 LBF/SQ FT
24.00	CONTN LD	127.42 LBF/SQ FT
24.00	CONTN LD	127.42 LBF/SQ FT
23.20	CONTN LD	0. LBF/SQ FT
23.00	CONTN LD	-31.98 LBF/SQ FT
22.00	CONTN LD	-191.38 LBF/SQ FT
21.00	CONTN LD	-350.78 LBF/SQ FT
20.00	CONTN LD	-506.23 LBF/SQ FT
19.00	CONTN LD	-573.89 LBF/SQ FT
18.50	CONTN LD	-607.72 LBF/SQ FT
18.50	CONTN LD	-607.72 LBF/SQ FT
17.50	CONTN LD	-596.35 LBF/SQ FT
16.50	CONTN LD	-584.98 LBF/SQ FT
15.50	CONTN LD	-573.62 LBF/SQ FT
14.50	CONTN LD	-562.25 LBF/SQ FT
13.50	CONTN LD	-558.31 LBF/SQ FT
12.50	CONTN LD	-558.55 LBF/SQ FT
11.50	CONTN LD	-558.68 LBF/SQ FT
11.20	CONTN LD	-558.72 LBF/SQ FT
9.88	CONTN LD	0. LBF/SQ FT
5.80	CONTN LD	1728.18 LBF/SQ FT
5.80	CONTN LD	0. LBF/SQ FT

PZ-22 PROPERTIES ARE AS FOLLOWS.

MOMENT OF INERTIA= 84.38 IN. TO THE 4TH PER FOOT OF WALL
CROSS SECTIONAL AREA= 6.47 SQ IN.
ELASTIC MODULUS= 29000000. LBF/SQ IN.
REFLECTION REFERENCE IS AT -17.900

THE MAXIMUM BENDING MOMENT IS 22991.70 LBF-FT AND OCCURS AT 16.78
WHICH HAS THE SHEAR FORCE OF -0.99 LBF.

DISTANCE (FEET)	SHEAR FOR (LBF)	SHEAR STR (LBF/SQIN)	BENDING MOM (LBF-FT)	DEFLECTION FROM TANG. THRU DEFLE REFERENCE (INCHES)
34.000	0.	0.	0.	3.5391
33.999	0.0	0.0	0.0	3.5391
33.000	31.3	4.8	10.4	3.3276
32.000	125.0	19.3	83.3	3.1159
31.000	281.3	43.5	281.3	2.9042
30.000	500.0	77.3	666.7	2.6928
29.000	781.3	120.7	1302.1	2.4819
28.000	1125.0	173.9	2250.0	2.2719
27.000	1531.3	236.7	3572.9	2.0635
26.000	2000.0	309.1	5333.3	1.8578
25.000	2407.4	372.1	7552.5	1.6558
24.000	2628.6	406.3	10086.1	1.4593
23.201	2679.5	414.1	12214.4	1.3072
23.000	2676.3	413.6	12751.8	1.2698
22.000	2564.6	396.4	15385.6	1.0894
21.000	2293.5	354.5	17827.9	0.9198
20.000	1865.0	288.3	19920.2	0.7628
19.000	1325.0	204.8	21520.8	0.6197
18.000	727.1	112.4	22549.2	0.4918
17.000	130.8	20.2	22977.2	0.3798
16.776	-1.0	-0.2	22991.7	0.3569
16.000	-454.2	-70.2	22814.5	0.2839
15.000	-1027.8	-158.9	22072.6	0.2040
14.000	-1591.0	-245.9	20762.5	0.1397
13.000	-2149.8	-332.3	18892.0	0.0900
12.000	-2708.4	-418.6	16462.9	0.0536
11.000	-3258.8	-503.7	13475.7	0.0287
10.000	-3522.3	-544.4	10049.9	0.0133
9.879	-3525.4	-544.9	9623.6	0.0119
9.877	-3525.4	-544.9	9616.5	0.0119
9.000	-3362.1	-519.6	6572.4	0.0049
8.000	-2778.4	-429.4	3466.8	0.0013
7.000	-1771.1	-273.7	1156.7	0.0002
6.000	-340.2	-52.6	65.8	0.0000
5.799	-1.7	-0.3	31.1	-0.0000
5.797	-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.	-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
-3.000	-0.0	-0.0	-0.0	-0.0000
-4.000	-0.0	-0.0	-0.0	-0.0000
-5.000	-0.0	-0.0	-0.0	-0.0000
-6.000	-0.0	-0.0	-0.0	-0.0000
-7.000	-0.0	-0.0	-0.0	-0.0000
-8.000	-0.0	-0.0	-0.0	-0.0000
-9.000	-0.0	-0.0	-0.0	-0.0000
-10.000	-0.0	-0.0	-0.0	-0.0000
-11.000	-0.0	-0.0	-0.0	-0.0000
-12.000	-0.0	-0.0	-0.0	-0.0000
-13.000	-0.0	-0.0	-0.0	-0.0000
-14.000	-0.0	-0.0	-0.0	-0.0000
-15.000	-0.0	-0.0	-0.0	-0.0000
-16.000	-0.0	-0.0	-0.0	-0.0000
-17.000	-0.0	-0.0	-0.0	0.

FS=1.0

LIT@ST LT11

```
10001 "17TH ST OUTFALL CANAL
10002 "STA 554 TO 589
                          3   0.34000000E 02   0.
10003                     3   0.33000000E 02   0.62500000E 02
10004                     3   0.32000000E 02   0.12500000E 03
10005                     3   0.31000000E 02   0.18750000E 03
10006                     3   0.30000000E 02   0.25000000E 03
10007                     3   0.29000000E 02   0.31250000E 03
10008                     3   0.28000000E 02   0.37500000E 03
10009                     3   0.27000000E 02   0.43750000E 03
10010                     3   0.26000000E 02   0.50000000E 03
10011                     3   0.26000000E 02   0.50000000E 03
10012                     3   0.25000000E 02   0.31487080E 03
10013                     3   0.24000000E 02   0.12741753E 03
10014                     3   0.24000000E 02   0.12741753E 03
10015                     3   0.23200640E 02   0.
10016                     3   0.23000000E 02  -0.31981948E 02
10017                     3   0.22000000E 02  -0.19138143E 03
10018                     3   0.21000000E 02  -0.35078090E 03
10019                     3   0.20000000E 02  -0.50623266E 03
10020                     3   0.19000000E 02  -0.57388861E 03
10021                     3   0.18500000E 02  -0.60771655E 03
10022                     3   0.18500000E 02  -0.60771655E 03
10023                     3   0.17500000E 02  -0.59634974E 03
10024                     3   0.16500000E 02  -0.58498323E 03
10025                     3   0.15500000E 02  -0.57361646E 03
10026                     3   0.14500000E 02  -0.56224969E 03
10027                     3   0.13500000E 02  -0.55831380E 03
10028                     3   0.12500000E 02  -0.55855361E 03
10029                     3   0.11500000E 02  -0.55867950E 03
10030                     3   0.11197080E 02  -0.55871755E 03
10031                     3   0.98780543E 01   0.
10032                     3   0.57981403E 01   0.17281841E 04
10033                     4   0.57981403E 01   0.
10034                     0   0.57981403E 01   0.
10035
10036    0.57981403E 01   0.61035156E-04   0.31126465E 02
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FS=1.0

FS=1.2

```
LISTH JR3B

08/18/83     11.87


1110 1 34.0 -17.9 1 -17.9 0 -1
1120 PZ-27
1130 29000000 7.94 184.2


*FRN WESLIB/CORPS/X0015,E

                    BEAMS (SHEAR, MOMENT, DEFLECTION)

DO YOU WANT OUTPUT SAVED IN A FILE (YES/NO)?
=NO
IS THE LOADING ON THE MEMBER TO BE READ FROM A FILE CREATED BY THE
"CANTILEVER RETAINING WALL STABILITY" PROGRAM (YES/NO)?
=YES
ENTER THE NAME OF THE FILE IN WHICH THE MEMBER LOADING IS STORED.
=LT11
DO YOU WANT TO RUN AN EXISTING DATA FILE (YES/NO)?
=YES
ENTER THE DATA FILE NAME.
=JR3B

                    BEAMS (SHEAR, MOMENT, DEFLECTION)

7TH ST OUTFALL CANAL
STA 554 TO 589

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    1.62 INCHES AND OCCURS AT MEMBER COORDINATE
 34.00 FT.
```

PZ-27 [illegible] 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
5.80	POINT LD	-0.00 LBF
5.80	COUPLE	-31.13 LBF-FT

INPUTTED LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
34.00	CONTN LD	0. LBF/SQ FT
33.00	CONTN LD	62.50 LBF/SQ FT
32.00	CONTN LD	125.00 LBF/SQ FT
31.00	CONTN LD	187.50 LBF/SQ FT
30.00	CONTN LD	250.00 LBF/SQ FT
29.00	CONTN LD	312.50 LBF/SQ FT
28.00	CONTN LD	375.00 LBF/SQ FT
27.00	CONTN LD	437.50 LBF/SQ FT
26.00	CONTN LD	500.00 LBF/SQ FT
26.00	CONTN LD	500.00 LBF/SQ FT
25.00	CONTN LD	314.87 LBF/SQ FT
24.00	CONTN LD	127.42 LBF/SQ FT
24.00	CONTN LD	127.42 LBF/SQ FT
23.20	CONTN LD	0. LBF/SQ FT
23.00	CONTN LD	-31.98 LBF/SQ FT
22.00	CONTN LD	-191.38 LBF/SQ FT
21.00	CONTN LD	-350.78 LBF/SQ FT
20.00	CONTN LD	-506.23 LBF/SQ FT
19.00	CONTN LD	-573.89 LBF/SQ FT
18.50	CONTN LD	-607.72 LBF/SQ FT
18.50	CONTN LD	-607.72 LBF/SQ FT
17.50	CONTN LD	-596.35 LBF/SQ FT
16.50	CONTN LD	-584.98 LBF/SQ FT
15.50	CONTN LD	-573.62 LBF/SQ FT
14.50	CONTN LD	-562.25 LBF/SQ FT
13.50	CONTN LD	-558.31 LBF/SQ FT
12.50	CONTN LD	-558.55 LBF/SQ FT
11.50	CONTN LD	-558.68 LBF/SQ FT
11.20	CONTN LD	-558.72 LBF/SQ FT
9.88	CONTN LD	0. LBF/SQ FT
5.80	CONTN LD	1728.18 LBF/SQ FT
5.80	CONTN LD	0. LBF/SQ FT

PZ-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 -17.900

THE MAXIMUM BENDING MOMENT IS 22991.70 LBF-FT AND OCCURS AT 16.78
WHICH HAS THE SHEAR FORCE OF -0.99 LBF.

DISTANCE (FEET)	SHEAR FOR (LBF)	SHEAR STR (LBF/SQIN)	BENDING MOM (LBF-FT)	DEFLECTION FROM TANG. THRU DEFLE REFERENCE (INCHES)
34.000	0.	0.	0.	1.6212
33.999	0.0	0.0	0.0	1.6212
33.000	31.3	3.9	10.4	1.5243
32.000	125.0	15.7	83.3	1.4273
31.000	281.3	35.4	281.3	1.3304
30.000	500.0	63.0	666.7	1.2335
29.000	781.3	98.4	1302.1	1.1369
28.000	1125.0	141.7	2250.0	1.0407
27.000	1531.3	192.9	3572.9	0.9453
26.000	2000.0	251.9	5333.3	0.8510
25.000	2407.4	303.2	7552.5	0.7585
24.000	2628.6	331.1	10086.1	0.6685
23.201	2679.5	337.5	12214.4	0.5988
23.000	2676.3	337.1	12751.8	0.5817
22.000	2564.6	323.0	15385.6	0.4990
21.000	2293.5	288.9	17827.9	0.4214
20.000	1865.0	234.9	19920.2	0.3494
19.000	1325.0	166.9	21520.8	0.2839
18.000	727.1	91.6	22549.2	0.2253
17.000	130.8	16.5	22977.2	0.1740
16.776	-1.0	-0.1	22991.7	0.1635
16.000	-454.2	-57.2	22814.5	0.1300
15.000	-1027.8	-129.4	22072.6	0.0935
14.000	-1591.0	-200.4	20762.5	0.0640
13.000	-2149.8	-270.8	18892.0	0.0412
12.000	-2708.4	-341.1	16462.9	0.0245
11.000	-3258.8	-410.4	13475.7	0.0131
10.000	-3522.3	-443.6	10049.9	0.0061
9.879	-3525.4	-444.0	9623.6	0.0055
9.877	-3525.4	-444.0	9616.5	0.0055
9.000	-3362.1	-423.4	6572.4	0.0023
8.000	-2778.4	-349.9	3466.8	0.0006
7.000	-1771.1	-223.1	1156.7	0.0001
6.000	-340.2	-42.8	65.8	0.0000
5.799	-1.7	-0.2	31.1	-0.0000
5.797	-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.	-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
-3.000	-0.0	-0.0	-0.0	-0.0000
-4.000	-0.0	-0.0	-0.0	-0.0000
-5.000	-0.0	-0.0	-0.0	-0.0000
-6.000	-0.0	-0.0	-0.0	-0.0000
-7.000	-0.0	-0.0	-0.0	-0.0000
-8.000	-0.0	-0.0	-0.0	-0.0000
-9.000	-0.0	-0.0	-0.0	-0.0000
-10.000	-0.0	-0.0	-0.0	-0.0000
-11.000	-0.0	-0.0	-0.0	-0.0000
-12.000	-0.0	-0.0	-0.0	-0.0000
-13.000	-0.0	-0.0	-0.0	-0.0000
-14.000	-0.0	-0.0	-0.0	-0.0000
-15.000	-0.0	-0.0	-0.0	-0.0000
-16.000	-0.0	-0.0	-0.0	-0.0000
-17.000	-0.0	-0.0	-0.0	0.

FS=1.0

```
LISTH JR3C

08/18/83     12.05


1110 1 34.0 -17.9 1 -17.9 0 -1
1120 PZ-38
1130 29000000 11.2 280.0


*FRN WESLIB/CORPS/X0015,E
                    BEAMS (SHEAR, MOMENT, DEFLECTION)

DO YOU WANT OUTPUT SAVED IN A FILE (YES/NO)?
=NO
IS THE LOADING ON THE MEMBER TO BE READ FROM A FILE CREATED BY THE
"CANTILEVER RETAINING WALL STABILITY" PROGRAM (YES/NO)?
=YES
ENTER THE NAME OF THE FILE IN WHICH THE MEMBER LOADING IS STORED.
=LT11
DO YOU WANT TO RUN AN EXISTING DATA FILE (YES/NO)?
=YES
ENTER THE DATA FILE NAME.
=JR3C
                    BEAMS (SHEAR, MOMENT, DEFLECTION)

7TH ST OUTFALL CANAL
STA 554 TO 589

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    1.07 INCHES AND OCCURS AT MEMBER COORDINATE
 34.00 FT.


PZ-38          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
5.80	POINT LD	-0.00 LBF
5.80	COUPLE	-31.13 LBF-FT

INPUTTED LOADS

DISTANCE FROM REFERENCE (FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
34.00	CONTN LD	0. LBF/SQ FT
33.00	CONTN LD	62.50 LBF/SQ FT
32.00	CONTN LD	125.00 LBF/SQ FT
31.00	CONTN LD	187.50 LBF/SQ FT
30.00	CONTN LD	250.00 LBF/SQ FT
29.00	CONTN LD	312.50 LBF/SQ FT
28.00	CONTN LD	375.00 LBF/SQ FT
27.00	CONTN LD	437.50 LBF/SQ FT
26.00	CONTN LD	500.00 LBF/SQ FT
26.00	CONTN LD	500.00 LBF/SQ FT
25.00	CONTN LD	314.87 LBF/SQ FT
24.00	CONTN LD	127.42 LBF/SQ FT
24.00	CONTN LD	127.42 LBF/SQ FT
23.20	CONTN LD	0. LBF/SQ FT
23.00	CONTN LD	-31.98 LBF/SQ FT
22.00	CONTN LD	-191.38 LBF/SQ FT
21.00	CONTN LD	-350.78 LBF/SQ FT
20.00	CONTN LD	-506.23 LBF/SQ FT
19.00	CONTN LD	-573.89 LBF/SQ FT
18.50	CONTN LD	-607.72 LBF/SQ FT
18.50	CONTN LD	-607.72 LBF/SQ FT
17.50	CONTN LD	-596.35 LBF/SQ FT
16.50	CONTN LD	-584.98 LBF/SQ FT
15.50	CONTN LD	-573.62 LBF/SQ FT
14.50	CONTN LD	-562.25 LBF/SQ FT
13.50	CONTN LD	-558.31 LBF/SQ FT
12.50	CONTN LD	-558.55 LBF/SQ FT
11.50	CONTN LD	-558.68 LBF/SQ FT
11.20	CONTN LD	-558.72 LBF/SQ FT
9.88	CONTN LD	0. LBF/SQ FT
5.80	CONTN LD	1728.18 LBF/SQ FT
5.80	CONTN LD	0. LBF/SQ FT

PZ-38 PROPERTIES ARE AS FOLLOWS.

MOMENT OF INERTIA= 280.00 IN. TO THE 4TH PER FOOT OF WALL
CROSS SECTIONAL AREA= 11.20 SQ IN.
ELASTIC MODULUS= 29000000. LBF/SQ IN.
DEFLECTION REFERENCE IS AT -17.900

THE MAXIMUM BENDING MOMENT IS 22991.70 LBF-FT AND OCCURS AT 16.78
WHICH HAS THE SHEAR FORCE OF -0.99 LBF.

DISTANCE (FEET)	SHEAR FOR (LBF)	SHEAR STR (LBF/SQIN)	BENDING MOM (LBF-FT)	DEFLECTION FROM TANG. THRU DEFLE REFERENCE (INCHES)
34.000	0.	0.	0.	1.0665
33.999	0.0	0.0	0.0	1.0665
33.000	31.3	2.8	10.4	1.0028
32.000	125.0	11.2	83.3	0.9390
31.000	281.3	25.1	281.3	0.8752
30.000	500.0	44.6	666.7	0.8115
29.000	781.3	69.8	1302.1	0.7479
28.000	1125.0	100.4	2250.0	0.6846
27.000	1531.3	136.7	3572.9	0.6219
26.000	2000.0	178.6	5333.3	0.5599
25.000	2407.4	214.9	7552.5	0.4990
24.000	2628.6	234.7	10086.1	0.4398
23.201	2679.5	239.2	12214.4	0.3939
23.000	2676.3	239.0	12751.8	0.3827
22.000	2564.6	229.0	15385.6	0.3283
21.000	2293.5	204.8	17827.9	0.2772
20.000	1865.0	166.5	19920.2	0.2299
19.000	1325.0	118.3	21520.8	0.1868
18.000	727.1	64.9	22549.2	0.1482
17.000	130.8	11.7	22977.2	0.1144
16.776	-1.0	-0.1	22991.7	0.1076
16.000	-454.2	-40.6	22814.5	0.0855
15.000	-1027.8	-91.8	22072.6	0.0615
14.000	-1591.0	-142.1	20762.5	0.0421
13.000	-2149.8	-191.9	18892.0	0.0271
12.000	-2708.4	-241.8	16462.9	0.0161
11.000	-3258.8	-291.0	13475.7	0.0086
10.000	-3522.3	-314.5	10049.9	0.0040
9.879	-3525.4	-314.8	9623.6	0.0036
9.877	-3525.4	-314.8	9616.5	0.0036
9.000	-3362.1	-300.2	6572.4	0.0015
8.000	-2778.4	-248.1	3466.8	0.0004
7.000	-1771.1	-158.1	1156.7	0.0000
6.000	-340.2	-30.4	65.8	0.0000
5.799	-1.7	-0.2	31.1	-0.0000
5.797	-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.	-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
-3.000	-0.0	-0.0	-0.0	-0.0000
-4.000	-0.0	-0.0	-0.0	-0.0000
-5.000	-0.0	-0.0	-0.0	-0.0000
-6.000	-0.0	-0.0	-0.0	-0.0000
-7.000	-0.0	-0.0	-0.0	-0.0000
-8.000	-0.0	-0.0	-0.0	-0.0000
-9.000	-0.0	-0.0	-0.0	-0.0000
-10.000	-0.0	-0.0	-0.0	-0.0000
-11.000	-0.0	-0.0	-0.0	-0.0000
-12.000	-0.0	-0.0	-0.0	-0.0000
-13.000	-0.0	-0.0	-0.0	-0.0000
-14.000	-0.0	-0.0	-0.0	-0.0000
-15.000	-0.0	-0.0	-0.0	-0.0000
-16.000	-0.0	-0.0	-0.0	-0.0000
-17.000	-0.0	-0.0	-0.0	-0.0000
-17.899	-0.0	-0.0	-0.0	0.
-17.900	-0.0	-0.0	-0.0	0.

RUN COMPLETED