Determine Shear Capacity

Concrete Properties:

b:	12	in	f'c:	3	ksi
d:	15	in	fy	60	ksi
h:	18	in			

Vmax:	4.23	kips	
Vu:	9.35	kips	-- Apply Corps Factors 1.3 & 1.7

Shear Capacity of Concrete:

Vc = 16.76 kips

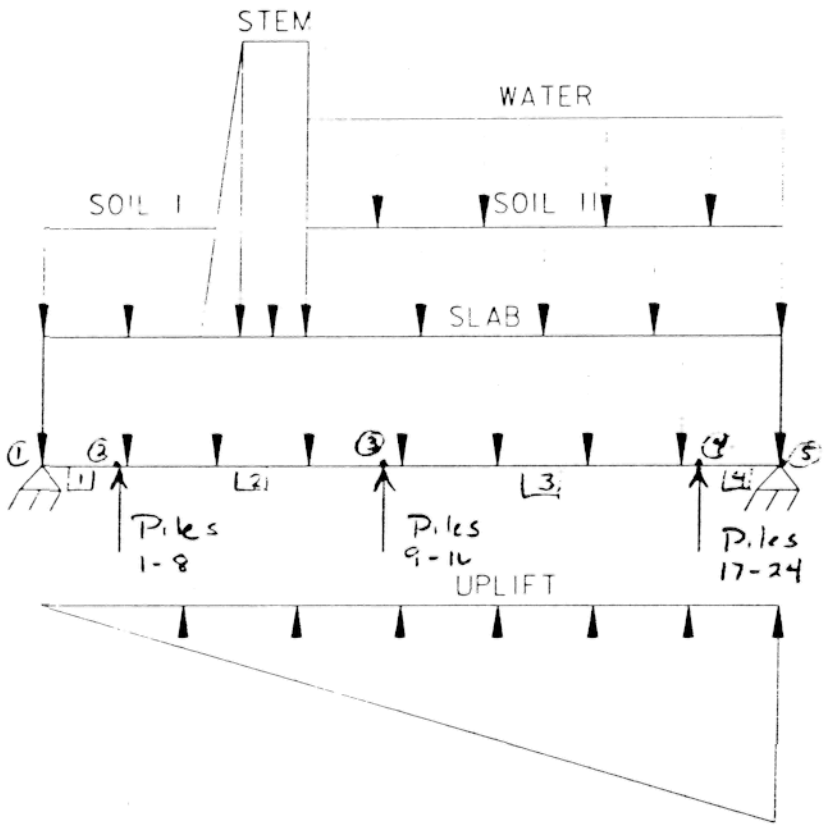
Vc > Vu **OK**

COMPUTATION SHEET

PROJECT BAYOU SORREL LOCK FEASIBILITY	PAGE OF	COMPUTED BY	DATE
SUBJECT		CHECKED BY	DATE

T-WALL LOADS

CFRAME SLAB ANALYSIS



C-Frame Load Cases

T-Wall Base Slab - Transverse Direction

Jt. #	Coordinates x	Coordinates y
1	0	0
2	1.5	0
3	6.5	0
4	12.5	0
5	14	0

Width of Section: 1 ft

Load Case 1: Concrete

Base Slab Thickness:	2.5	ft
Height of Stem:	14.7	ft
Weight of Concrete:	0.15	lb/ft^3

Slab:	0.375	k/ft
Stem:	2.205	k/ft

Load Case 2: Soil (dry)

Weight of FS Soil:	0.33	k/ft^2
Weight of PS Soil:	0.33	k/ft^2

F.S.:	0.33	k/ft
P.S.:	0.33	k/ft

Load Case 3: Soil (FS wet PS dry)

Weight of FS Soil:	0.1425	k/ft^2
Weight of PS Soil:	0.33	k/ft^2

F.S.:	0.14	k/ft
P.S.:	0.33	k/ft

Load Case 4: F.S. Water @ El. 28.7 & P.S. Water @ El. 0.0

Weight of Water:	0.0625	k/ft^3
F.S. Height of Water:	11.7	ft
F.S. Water Pressure:	0.731	k/ft^2
P.S. Height of Water:	0	ft
F.S. Water Pressure:	0	k/ft^2

F.S.:	0.73	k/ft
P.S.:	0.00	k/ft

Pervious Uplift:

F.S. Height of Water:	14.2	ft
F.S. Water Pressure:	0.8875	k/ft^2
P.S. Height of Water:	0	ft
F.S. Water Pressure:	0	k/ft^2

F.S.:	0.89	k/ft
P.S.:	0.00	k/ft

Load Case 5: F.S. Water @ El. 30.7 & P.S. Water @ El. 0.0

Weight of Water:	0.0625	k/ft³	Pervious Uplift:		
F.S. Height of Water:	13.7	ft	F.S. Height of Water:	16.2	ft
F.S. Water Pressure:	0.856	k/ft²	F.S. Water Pressure:	1.0125	k/ft²
P.S. Height of Water:	0	ft	P.S. Height of Water:	0	ft
F.S. Water Pressure:	0	k/ft²	F.S. Water Pressure:	0	k/ft²

F.S.:	0.86	k/ft	F.S.:	1.01	k/ft
P.S.:	0.00	k/ft	P.S.:	0.00	k/ft

Load Case 6: Concrete & Soil Piles

Contributory Width: 5 ft

Loads from CPGA			Final Loads		
Pile 1:	51.9	k	Pile 1:	10.38	k
Pile 9:	-15.3	k	Pile 2:	-3.06	k
Pile 17:	27.4	k	Pile 3:	5.48	k

Load Case 7: F.S. Water @ El. 28.7 & P.S. Water @ El. 0.0 Piles

Contributory Width: 5 ft

Loads from CPGA			Final Loads		
Pile 1:	29	k	Pile 1:	5.80	k
Pile 9:	32.8	k	Pile 2:	6.56	k
Pile 17:	-4.5	k	Pile 3:	-0.90	k

Load Case 8: F.S. Water @ El. 30.7 & P.S. Water @ El. 0.0 Piles

Contributory Width: 5 ft

Loads from CPGA			Final Loads		
Pile 1:	24.4	k	Pile 1:	4.88	k
Pile 9:	29.1	k	Pile 2:	5.82	k
Pile 17:	-9.6	k	Pile 3:	-1.92	k

```
100 BAYOU SORREL LOCK FEASIBILITY STUDY*
110 T-WALL SLAB IN TRANSVERSE DIRECTION
120 KSI FT IN IN KIP
130 5 4 10 3000 .15
140 1 0 0 2 1.5 0 3 6.5 0 4 12.5 0 5 14.0 0
150 FIX X 1 5 FIX Y 1 5
160 1 1 2 2 2 3 3 3 4 4 4 5
170 1728 144 72 1 2 3 4
180 LOAD CASE 1 0 5 0 0 0 CONCRETE
190 0 0.375 1.5 0.375 0 1 4
200 0 0.375 5.0 0.375 0 2
210 0 0.375 6.0 0.375 0 3
220 1.5 0.0 2.25 2.21 0 2
230 2.25 2.21 3.50 2.21 0 2
235 LOAD CASE 2 0 4 0 0 0 SOIL I & II(DRY)
240 0 0.33 1.50 0.33 0 1 4
250 0 0.33 1.50 0.33 0 2
255 3.50 0.33 5.00 0.33 0 2
256 0 0.33 6.00 0.33 0 3
260 LOAD CASE 3 0 5 0 0 0 SOIL I(DRY) & II(WET)
265 0 0.33 1.50 0.33 0 1
266 0 0.33 1.50 0.33 0 2
270 3.50 0.143 5.00 0.143 0 2
275 0 0.143 6.00 0.143 0 3
276 0 0.143 1.50 0.143 0 4
280 LOAD CASE 4 0 3 0 0 0 WATER AT 28.7
285 3.50 0.731 5.00 0.731 0 2
290 0 0.731 6.00 0.731 0 3
295 0 0.731 1.50 0.731 0 4
300 LOAD CASE 5 0 3 0 0 0 WATER AT 30.7
305 3.50 0.86 5.00 0.86 0 2
310 0 0.86 6.00 0.86 0 3
315 0 0.86 1.50 0.86 0 4
320 LOAD CASE 6 0 4 0 0 0 UPLIFT AT 28.7
325 0 0 1.50 -0.095 0 1
330 0 -0.095 5.00 -0.412 0 2
335 0 -0.415 6.00 -0.793 0 3
340 0 -0.793 1.50 -0.888 0 4
350 LOAD CASE 7 0 4 0 0 0 UPLIFT AT 30.7
355 0 0 1.50 -0.108 0 1
360 0 -0.108 5.00 -0.469 0 2
365 0 -0.469 6.00 -0.902 0 3
370 0 -0.902 1.50 -1.01 0 4
375 LOAD CASE 8 0 0 0 3 0 DL PILES
380 0 10.38 0 2
385 0 -3.06 0 3
390 0 5.48 0 4
400 LOAD CASE 9 0 0 0 3 0 SWL PILES
405 0 5.80 0 2
410 0 6.56 0 3
415 0 -0.90 0 4
400 LOAD CASE 10 0 0 0 3 0 SWL+2 PILES
405 0 4.88 0 2
410 0 5.82 0 3
415 0 -1.92 0 4
420 COMB 11 1 1.0 2 1.0 8 1.0
425 COMB 12 1 1.0 3 1.0 4 1.0 6 1.0 9 1.0
430 COMB 13 1 0.75 3 0.75 5 0.75 7 0.75 10 1.0
```

PROGRAM CFRAME V02.05 24JUL84
--*-*-*-*-*-*-*-*-*-*-*-*-*-*

RUN DATE = 3/23/2001
RUN TIME = 15: 8:23

BAYOU SORREL LOCK FEASIBILITY STUDY
T-WALL SLAB IN TRANSVERSE DIRECTION

*** JOINT DATA ***

JOINT	X ---FT	Y ---	FIXITY X	FIXITY Y	FIXITY R	KX ---KIP /IN ---	KY	KR IN -KIP/RAD
1	.00	.00	*	*				
2	1.50	.00						
3	6.50	.00						
4	12.50	.00						
5	14.00	.00	*	*				

*** MEMBER DATA ***

MEMBER	END A	END B	LENGTH FT	I IN **4	A IN **2	AS IN **2	E KSI	G KSI
1	1	2	1.50	.1728E+04	.1440E+03	.7200E+02	.3000E+04	.1304E+04
2	2	3	5.00	.1728E+04	.1440E+03	.7200E+02	.3000E+04	.1304E+04
3	3	4	6.00	.1728E+04	.1440E+03	.7200E+02	.3000E+04	.1304E+04
4	4	5	1.50	.1728E+04	.1440E+03	.7200E+02	.3000E+04	.1304E+04

*** LOAD CASE 1 CONCRETE

MEMBER	LA FT	PA KIP /FT	LB FT	PB KIP /FT	ANGLE DEG
1	.00	.3750E+00	1.50	.3750E+00	.00
2	.00	.3750E+00	5.00	.3750E+00	.00
2	1.50	.0000E+00	2.25	.2210E+01	.00
2	2.25	.2210E+01	3.50	.2210E+01	.00
3	.00	.3750E+00	6.00	.3750E+00	.00
4	.00	.3750E+00	1.50	.3750E+00	.00

*** LOAD CASE 2 SOIL I & II(DRY)

MEMBER	LA FT	PA KIP /FT	LB FT	PB KIP /FT	ANGLE DEG
1	.00	.3300E+00	1.50	.3300E+00	.00
2	.00	.3300E+00	1.50	.3300E+00	.00
2	3.50	.3300E+00	5.00	.3300E+00	.00

3	.00	.3300E+00	6.00	.3300E+00	.00
4	.00	.3300E+00	1.50	.3300E+00	.00

*** LOAD CASE 3 SOIL I(DRY) & II(WET)

MEMBER	LA FT	PA KIP /FT	LB FT	PB KIP /FT	ANGLE DEG
1	.00	.3300E+00	1.50	.3300E+00	.00
2	.00	.3300E+00	1.50	.3300E+00	.00
2	3.50	.1430E+00	5.00	.1430E+00	.00
3	.00	.1430E+00	6.00	.1430E+00	.00
4	.00	.1430E+00	1.50	.1430E+00	.00

*** LOAD CASE 4 WATER AT 28.7

MEMBER	LA FT	PA KIP /FT	LB FT	PB KIP /FT	ANGLE DEG
2	3.50	.7310E+00	5.00	.7310E+00	.00
3	.00	.7310E+00	6.00	.7310E+00	.00
4	.00	.7310E+00	1.50	.7310E+00	.00

*** LOAD CASE 5 WATER AT 30.7

MEMBER	LA FT	PA KIP /FT	LB FT	PB KIP /FT	ANGLE DEG
2	3.50	.8600E+00	5.00	.8600E+00	.00
3	.00	.8600E+00	6.00	.8600E+00	.00
4	.00	.8600E+00	1.50	.8600E+00	.00

*** LOAD CASE 6 UPLIFT AT 28.7

MEMBER	LA FT	PA KIP /FT	LB FT	PB KIP /FT	ANGLE DEG
1	.00	.0000E+00	1.50	-.9500E-01	.00
2	.00	-.9500E-01	5.00	-.4120E+00	.00
3	.00	-.4150E+00	6.00	-.7930E+00	.00
4	.00	-.7930E+00	1.50	-.8880E+00	.00

*** LOAD CASE 7 UPLIFT AT 30.7

MEMBER	LA FT	PA KIP /FT	LB FT	PB KIP /FT	ANGLE DEG

1	.00	.0000E+00	1.50	-.1080E+00	.00
2	.00	-.1080E+00	5.00	-.4690E+00	.00
3	.00	-.4690E+00	6.00	-.9020E+00	.00
4	.00	-.9020E+00	1.50	-.1010E+01	.00

*** LOAD CASE 8 DL PILES

JOINT	FORCE X KIP	FORCE Y KIP	MOMENT FT -KIP
2	.0000E+00	.1038E+02	.0000E+00
3	.0000E+00	-.3060E+01	.0000E+00
4	.0000E+00	.5480E+01	.0000E+00

*** LOAD CASE 9 SWL PILES

JOINT	FORCE X KIP	FORCE Y KIP	MOMENT FT -KIP
2	.0000E+00	.5800E+01	.0000E+00
3	.0000E+00	.6560E+01	.0000E+00
4	.0000E+00	-.9000E+00	.0000E+00

*** LOAD CASE 10 SWL+2 PILES

JOINT	FORCE X KIP	FORCE Y KIP	MOMENT FT -KIP
2	.0000E+00	.4880E+01	.0000E+00
3	.0000E+00	.5820E+01	.0000E+00
4	.0000E+00	-.1920E+01	.0000E+00

*** LOAD CASE COMBINATIONS ***

LOAD CASE	LOAD CASE FACTORS 1	2	3	4	5	6	7	8	9	10
11	1.00	1.00	.00	.00	.00	.00	.00	1.00	.00	.00
12	1.00	.00	1.00	1.00	.00	1.00	.00	.00	1.00	.00
13	.75	.00	.75	.00	.75	.00	.75	.00	.00	1.00

1 LOAD CASE 1 CONCRETE

JOINT DISPLACEMENTS

JOINT	DX IN	DY IN	DR RAD

1	.0000E+00	.0000E+00	-.2343E-02
2	.0000E+00	-.4216E-01	-.2188E-02
3	.0000E+00	-.1186E+00	-.8203E-04
4	.0000E+00	-.3730E-01	.1963E-02
5	.0000E+00	.0000E+00	.2073E-02

MEMBER END FORCES

MEMBER	JOINT	AXIAL KIP	SHEAR KIP	MOMENT IN -KIP	MOMENT EXTREMA IN -KIP	LOCATION IN
1	1	.0000E+00	.5146E+01	.0000E+00	.8756E+02	18.00
	2	.0000E+00	-.4583E+01	.8756E+02	.0000E+00	.00
2	2	.0000E+00	.4583E+01	.8756E+02	.2171E+03	40.80
	3	.0000E+00	.8830E+00	.2060E+03	.8756E+02	.00
3	3	.0000E+00	-.8830E+00	.2060E+03	.2060E+03	.00
	4	.0000E+00	.3133E+01	.6146E+02	.6146E+02	72.00
4	4	.0000E+00	-.3133E+01	.6146E+02	.6146E+02	.00
	5	.0000E+00	.3695E+01	.0000E+00	.0000E+00	18.00

STRUCTURE REACTIONS

JOINT	FORCE X KIP	FORCE Y KIP	MOMENT IN -KIP
1	.0000E+00	.5146E+01	.0000E+00
5	.0000E+00	.3695E+01	.0000E+00
TOTAL	.0000E+00	.8841E+01	

LOAD CASE 2 SOIL I & II(DRY)

JOINT DISPLACEMENTS

JOINT	DX IN	DY IN	DR RAD
1	.0000E+00	.0000E+00	-.8407E-03
2	.0000E+00	-.1512E-01	-.7884E-03
3	.0000E+00	-.4589E-01	-.1210E-03
4	.0000E+00	-.1604E-01	.8306E-03
5	.0000E+00	.0000E+00	.8918E-03

MEMBER END FORCES

MEMBER	JOINT	AXIAL KIP	SHEAR KIP	MOMENT IN -KIP	MOMENT EXTREMA IN -KIP	LOCATION IN
1	1	.0000E+00	.1839E+01	.0000E+00	.2864E+02	18.00
	2	.0000E+00	-.1344E+01	.2864E+02	.0000E+00	.00
2	2	.0000E+00	.1344E+01	.2864E+02	.7955E+02	60.00
	3	.0000E+00	-.3536E+00	.7955E+02	.2864E+02	.00
3	3	.0000E+00	.3536E+00	.7955E+02	.8183E+02	12.96
	4	.0000E+00	.1626E+01	.3373E+02	.3373E+02	72.00
4	4	.0000E+00	-.1626E+01	.3373E+02	.3373E+02	.00

5	.0000E+00	.2121E+01	.0000E+00	.0000E+00	18.00

STRUCTURE REACTIONS

JOINT	FORCE X KIP	FORCE Y KIP	MOMENT IN -KIP
1	.0000E+00	.1839E+01	.0000E+00
5	.0000E+00	.2121E+01	.0000E+00
TOTAL	.0000E+00	.3960E+01	

1 LOAD CASE 3 SOIL I(DRY) & II(WET)

JOINT DISPLACEMENTS

JOINT	DX IN	DY IN	DR RAD
1	.0000E+00	.0000E+00	-.4513E-03
2	.0000E+00	-.8105E-02	-.4160E-03
3	.0000E+00	-.2332E-01	-.4620E-04
4	.0000E+00	-.7907E-02	.4113E-03
5	.0000E+00	.0000E+00	.4397E-03

MEMBER END FORCES

MEMBER	JOINT	AXIAL KIP	SHEAR KIP	MOMENT IN -KIP	MOMENT EXTREMA IN -KIP	LOCATION IN
1	1	.0000E+00	.1298E+01	.0000E+00	.1890E+02	18.00
	2	.0000E+00	-.8026E+00	.1890E+02	.0000E+00	.00
2	2	.0000E+00	.8026E+00	.1890E+02	.3988E+02	60.00
	3	.0000E+00	-.9311E-01	.3988E+02	.1890E+02	.00
3	3	.0000E+00	.9311E-01	.3988E+02	.4024E+02	7.20
	4	.0000E+00	.7649E+00	.1570E+02	.1570E+02	72.00
4	4	.0000E+00	-.7649E+00	.1570E+02	.1570E+02	.00
	5	.0000E+00	.9794E+00	.0000E+00	.0000E+00	18.00

STRUCTURE REACTIONS

JOINT	FORCE X KIP	FORCE Y KIP	MOMENT IN -KIP
1	.0000E+00	.1298E+01	.0000E+00
5	.0000E+00	.9794E+00	.0000E+00
TOTAL	.0000E+00	.2277E+01	

1 LOAD CASE 4 WATER AT 28.7

JOINT DISPLACEMENTS

JOINT	DX IN	DY IN	DR RAD
1	.0000E+00	.0000E+00	-.1522E-02
2	.0000E+00	-.2741E-01	-.1456E-02
3	.0000E+00	-.8821E-01	-.2926E-03
4	.0000E+00	-.3178E-01	.1639E-02
5	.0000E+00	.0000E+00	.1767E-02

MEMBER END FORCES

MEMBER	JOINT	AXIAL KIP	SHEAR KIP	MOMENT IN -KIP	MOMENT EXTREMA IN -KIP	LOCATION IN
1	1	.0000E+00	.2115E+01	.0000E+00	.3806E+02	18.00
	2	.0000E+00	-.2115E+01	.3806E+02	.0000E+00	.00
2	2	.0000E+00	.2115E+01	.3806E+02	.1551E+03	60.00
	3	.0000E+00	-.1018E+01	.1551E+03	.3806E+02	.00
3	3	.0000E+00	.1018E+01	.1551E+03	.1636E+03	17.28
	4	.0000E+00	.3368E+01	.7049E+02	.7049E+02	72.00
4	4	.0000E+00	-.3368E+01	.7049E+02	.7049E+02	.00
	5	.0000E+00	.4464E+01	.0000E+00	.0000E+00	18.00

STRUCTURE REACTIONS

JOINT	FORCE X KIP	FORCE Y KIP	MOMENT IN -KIP
1	.0000E+00	.2115E+01	.0000E+00
5	.0000E+00	.4464E+01	.0000E+00
TOTAL	.0000E+00	.6579E+01	

1 LOAD CASE 5 WATER AT 30.7

JOINT DISPLACEMENTS

JOINT	DX IN	DY IN	DR RAD
1	.0000E+00	.0000E+00	-.1791E-02
2	.0000E+00	-.3224E-01	-.1713E-02
3	.0000E+00	-.1038E+00	-.3442E-03
4	.0000E+00	-.3739E-01	.1929E-02
5	.0000E+00	.0000E+00	.2079E-02

MEMBER END FORCES

MEMBER	JOINT	AXIAL KIP	SHEAR KIP	MOMENT IN -KIP	MOMENT EXTREMA IN -KIP	LOCATION IN
1	1	.0000E+00	.2488E+01	.0000E+00	.4478E+02	18.00
	2	.0000E+00	-.2488E+01	.4478E+02	.0000E+00	.00
2	2	.0000E+00	.2488E+01	.4478E+02	.1824E+03	60.00
	3	.0000E+00	-.1198E+01	.1824E+03	.4478E+02	.00

3	3	.0000E+00	.1198E+01	.1824E+03	.1924E+03	17.28
	4	.0000E+00	.3962E+01	.8293E+02	.8293E+02	72.00
4	4	.0000E+00	-.3962E+01	.8293E+02	.8293E+02	.00
	5	.0000E+00	.5252E+01	.0000E+00	.0000E+00	18.00

STRUCTURE REACTIONS

JOINT	FORCE X KIP	FORCE Y KIP	MOMENT IN -KIP
1	.0000E+00	.2488E+01	.0000E+00
5	.0000E+00	.5252E+01	.0000E+00
TOTAL	.0000E+00	.7740E+01	

1 LOAD CASE 6 UPLIFT AT 28.7

JOINT DISPLACEMENTS

JOINT	DX IN	DY IN	DR RAD
1	.0000E+00	.0000E+00	.1318E-02
2	.0000E+00	.2373E-01	.1253E-02
3	.0000E+00	.7456E-01	.2315E-03
4	.0000E+00	.2708E-01	-.1391E-02
5	.0000E+00	.0000E+00	-.1507E-02

MEMBER END FORCES

MEMBER	JOINT	AXIAL KIP	SHEAR KIP	MOMENT IN -KIP	MOMENT EXTREMA IN -KIP	LOCATION IN
1	1	.0000E+00	-.2074E+01	.0000E+00	.0000E+00	.00
	2	.0000E+00	.2003E+01	-.3691E+02	-.3691E+02	18.00
2	2	.0000E+00	-.2003E+01	-.3691E+02	-.3691E+02	.00
	3	.0000E+00	.7357E+00	-.1270E+03	-.1270E+03	60.00
3	3	.0000E+00	-.7357E+00	-.1270E+03	-.6312E+02	72.00
	4	.0000E+00	-.2888E+01	-.6312E+02	-.1342E+03	18.72
4	4	.0000E+00	.2888E+01	-.6312E+02	.0000E+00	18.00
	5	.0000E+00	-.4149E+01	.0000E+00	-.6312E+02	.00

STRUCTURE REACTIONS

JOINT	FORCE X KIP	FORCE Y KIP	MOMENT IN -KIP
1	.0000E+00	-.2074E+01	.0000E+00
5	.0000E+00	-.4149E+01	.0000E+00
TOTAL	.0000E+00	-.6224E+01	

1 LOAD CASE 7 UPLIFT AT 30.7

JOINT DISPLACEMENTS

JOINT	DX IN	DY IN	DR RAD
1	.0000E+00	.0000E+00	.1497E-02
2	.0000E+00	.2695E-01	.1423E-02
3	.0000E+00	.8467E-01	.2628E-03
4	.0000E+00	.3075E-01	-.1579E-02
5	.0000E+00	.0000E+00	-.1711E-02

MEMBER END FORCES

MEMBER	JOINT	AXIAL KIP	SHEAR KIP	MOMENT IN -KIP	MOMENT EXTREMA IN -KIP	LOCATION IN
1	1	.0000E+00	-.2356E+01	.0000E+00	.0000E+00	.00
	2	.0000E+00	.2275E+01	-.4193E+02	-.4193E+02	18.00
2	2	.0000E+00	-.2275E+01	-.4193E+02	-.4193E+02	.00
	3	.0000E+00	.8330E+00	-.1442E+03	-.1442E+03	60.00
3	3	.0000E+00	-.8330E+00	-.1442E+03	-.7170E+02	72.00
	4	.0000E+00	-.3280E+01	-.7170E+02	-.1524E+03	18.72
4	4	.0000E+00	.3280E+01	-.7170E+02	.0000E+00	18.00
	5	.0000E+00	-.4714E+01	.0000E+00	-.7170E+02	.00

STRUCTURE REACTIONS

JOINT	FORCE X KIP	FORCE Y KIP	MOMENT IN -KIP
1	.0000E+00	-.2356E+01	.0000E+00
5	.0000E+00	-.4714E+01	.0000E+00
TOTAL	.0000E+00	-.7071E+01	

1 LOAD CASE 8 DL PILES

JOINT DISPLACEMENTS

JOINT	DX IN	DY IN	DR RAD
1	.0000E+00	.0000E+00	.1172E-02
2	.0000E+00	.2112E-01	.9149E-03
3	.0000E+00	.3831E-01	-.4526E-04
4	.0000E+00	.1598E-01	-.7435E-03
5	.0000E+00	.0000E+00	-.8867E-03

MEMBER END FORCES

MEMBER	JOINT	AXIAL KIP	SHEAR KIP	MOMENT IN -KIP	MOMENT EXTREMA IN -KIP	LOCATION IN
1	1	.0000E+00	-.8216E+01	.0000E+00	.0000E+00	.00

	2	.0000E+00	.8216E+01	-.1479E+03	-.1479E+03	18.00
2	2	.0000E+00	.2164E+01	-.1479E+03	-.1803E+02	60.00
	3	.0000E+00	-.2164E+01	-.1803E+02	-.1479E+03	.00
3	3	.0000E+00	-.8957E+00	-.1803E+02	-.1803E+02	.00
	4	.0000E+00	.8957E+00	-.8252E+02	-.8252E+02	72.00
4	4	.0000E+00	.4584E+01	-.8252E+02	.0000E+00	18.00
	5	.0000E+00	-.4584E+01	.0000E+00	-.8252E+02	.00

STRUCTURE REACTIONS

JOINT	FORCE X KIP	FORCE Y KIP	MOMENT IN -KIP
1	.0000E+00	-.8216E+01	.0000E+00
5	.0000E+00	-.4584E+01	.0000E+00
TOTAL	.0000E+00	-.1280E+02	

1 LOAD CASE 9 SWL PILES

JOINT DISPLACEMENTS

JOINT	DX IN	DY IN	DR RAD
1	.0000E+00	.0000E+00	.3140E-02
2	.0000E+00	.5656E-01	.2872E-02
3	.0000E+00	.1575E+00	.1097E-03
4	.0000E+00	.4641E-01	-.2488E-02
5	.0000E+00	.0000E+00	-.2577E-02

MEMBER END FORCES

MEMBER	JOINT	AXIAL KIP	SHEAR KIP	MOMENT IN -KIP	MOMENT EXTREMA IN -KIP	LOCATION IN
1	1	.0000E+00	-.8596E+01	.0000E+00	.0000E+00	.00
	2	.0000E+00	.8596E+01	-.1547E+03	-.1547E+03	18.00
2	2	.0000E+00	-.2796E+01	-.1547E+03	-.1547E+03	.00
	3	.0000E+00	.2796E+01	-.3225E+03	-.3225E+03	60.00
3	3	.0000E+00	.3764E+01	-.3225E+03	-.5154E+02	72.00
	4	.0000E+00	-.3764E+01	-.5154E+02	-.3225E+03	.00
4	4	.0000E+00	.2864E+01	-.5154E+02	.0000E+00	18.00
	5	.0000E+00	-.2864E+01	.0000E+00	-.5154E+02	.00

STRUCTURE REACTIONS

JOINT	FORCE X KIP	FORCE Y KIP	MOMENT IN -KIP
1	.0000E+00	-.8596E+01	.0000E+00
5	.0000E+00	-.2864E+01	.0000E+00
TOTAL	.0000E+00	-.1146E+02	

1 LOAD CASE 10 SWL+2 PILES

JOINT DISPLACEMENTS

JOINT	DX IN	DY IN	DR RAD
1	.0000E+00	.0000E+00	.2635E-02
2	.0000E+00	.4745E-01	.2407E-02
3	.0000E+00	.1314E+00	.6332E-04
4	.0000E+00	.3739E-01	-.2030E-02
5	.0000E+00	.0000E+00	-.2077E-02

MEMBER END FORCES

MEMBER	JOINT	AXIAL KIP	SHEAR KIP	MOMENT IN -KIP	MOMENT EXTREMA IN -KIP	LOCATION IN
1	1	.0000E+00	-.7269E+01	.0000E+00	.0000E+00	.00
	2	.0000E+00	.7269E+01	-.1308E+03	-.1308E+03	18.00
2	2	.0000E+00	-.2389E+01	-.1308E+03	-.1308E+03	.00
	3	.0000E+00	.2389E+01	-.2742E+03	-.2742E+03	60.00
3	3	.0000E+00	.3431E+01	-.2742E+03	-.2719E+02	72.00
	4	.0000E+00	-.3431E+01	-.2719E+02	-.2742E+03	.00
4	4	.0000E+00	.1511E+01	-.2719E+02	.0000E+00	18.00
	5	.0000E+00	-.1511E+01	.0000E+00	-.2719E+02	.00

STRUCTURE REACTIONS

JOINT	FORCE X KIP	FORCE Y KIP	MOMENT IN -KIP
1	.0000E+00	-.7269E+01	.0000E+00
5	.0000E+00	-.1511E+01	.0000E+00
TOTAL	.0000E+00	-.8780E+01	

1 LOAD CASE 11

JOINT DISPLACEMENTS

JOINT	DX IN	DY IN	DR RAD
1	.0000E+00	.0000E+00	-.2012E-02
2	.0000E+00	-.3615E-01	-.2061E-02
3	.0000E+00	-.1262E+00	-.2483E-03
4	.0000E+00	-.3735E-01	.2050E-02
5	.0000E+00	.0000E+00	.2078E-02

MEMBER END FORCES

MEMBER	JOINT	AXIAL	SHEAR	MOMENT	MOMENT EXTREMA	LOCATION