

■용량1교

1)형식전

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

SYSTEM
LENGTH=M

FORCE=KN

JOINT

1 X= 0.000 Y=0.000 Z=0.000
2 X= 3.950 Y=0.000 Z=0.068
3 X= 8.950 Y=0.000 Z=0.154
4 X= 13.950 Y=0.000 Z=0.240
5 X= 18.950 Y=0.000 Z=0.325
6 X= 23.950 Y=0.000 Z=0.411
7 X= 28.950 Y=0.000 Z=0.497
8 X= 33.950 Y=0.000 Z=0.583
9 X= 38.950 Y=0.000 Z=0.669
10 X= 43.950 Y=0.000 Z=0.755
11 X= 48.950 Y=0.000 Z=0.841
12 X= 53.950 Y=0.000 Z=0.927
13 X= 58.950 Y=0.000 Z=1.013
14 X= 63.950 Y=0.000 Z=1.098
15 X= 68.950 Y=0.000 Z=1.184
16 X= 73.950 Y=0.000 Z=1.270
17 X= 78.950 Y=0.000 Z=1.356
18 X= 83.950 Y=0.000 Z=1.442
19 X= 88.950 Y=0.000 Z=1.528
20 X= 93.950 Y=0.000 Z=1.614
21 X= 98.950 Y=0.000 Z=1.700
22 X= 103.950 Y=0.000 Z=1.785
23 X= 108.950 Y=0.000 Z=1.871
24 X= 113.950 Y=0.000 Z=1.957
25 X= 118.950 Y=0.000 Z=2.043
26 X= 123.950 Y=0.000 Z=2.129
27 X= 128.950 Y=0.000 Z=2.215
28 X= 133.950 Y=0.000 Z=2.301
29 X= 138.950 Y=0.000 Z=2.387
30 X= 143.950 Y=0.000 Z=2.473
31 X= 147.900 Y=0.000 Z=2.540
32 X= 0.000 Y=-7.700 Z=0.231
33 X= 3.950 Y=-7.700 Z=0.299
34 X= 8.950 Y=-7.700 Z=0.365
35 X= 13.950 Y=-7.700 Z=0.471
36 X= 18.950 Y=-7.700 Z=0.556
37 X= 23.950 Y=-7.700 Z=0.642
38 X= 28.950 Y=-7.700 Z=0.728
39 X= 33.950 Y=-7.700 Z=0.814
40 X= 38.950 Y=-7.700 Z=0.900
41 X= 43.950 Y=-7.700 Z=0.986
42 X= 48.950 Y=-7.700 Z=1.072
43 X= 53.950 Y=-7.700 Z=1.158
44 X= 58.950 Y=-7.700 Z=1.244
45 X= 63.950 Y=-7.700 Z=1.329
46 X= 68.950 Y=-7.700 Z=1.415
47 X= 73.950 Y=-7.700 Z=1.501
48 X= 78.950 Y=-7.700 Z=1.587
49 X= 83.950 Y=-7.700 Z=1.673
50 X= 88.950 Y=-7.700 Z=1.759
51 X= 93.950 Y=-7.700 Z=1.845
52 X= 98.950 Y=-7.700 Z=1.931
53 X= 103.950 Y=-7.700 Z=2.016
54 X= 108.950 Y=-7.700 Z=2.102
55 X= 113.950 Y=-7.700 Z=2.188
56 X= 118.950 Y=-7.700 Z=2.274
57 X= 123.950 Y=-7.700 Z=2.360
58 X= 128.950 Y=-7.700 Z=2.446
59 X= 133.950 Y=-7.700 Z=2.532
60 X= 138.950 Y=-7.700 Z=2.618
61 X= 143.950 Y=-7.700 Z=2.704
62 X= 147.900 Y=-7.700 Z=2.771
63 X= 0.000 Y=-3.850 Z=0.116
64 X= 3.950 Y=-3.850 Z=0.183
65 X= 8.950 Y=-3.850 Z=0.269
66 X= 13.950 Y=-3.850 Z=0.355
67 X= 18.950 Y=-3.850 Z=0.441
68 X= 23.950 Y=-3.850 Z=0.527

69 X= 28.950 Y=-3.850 Z=0.613
70 X= 33.950 Y=-3.850 Z=0.699
71 X= 38.950 Y=-3.850 Z=0.785
72 X= 43.950 Y=-3.850 Z=0.870
73 X= 48.950 Y=-3.850 Z=0.956
74 X= 53.950 Y=-3.850 Z=1.042
75 X= 58.950 Y=-3.850 Z=1.128
76 X= 63.950 Y=-3.850 Z=1.214
77 X= 68.950 Y=-3.850 Z=1.300
78 X= 73.950 Y=-3.850 Z=1.386
79 X= 78.950 Y=-3.850 Z=1.472
80 X= 83.950 Y=-3.850 Z=1.557
81 X= 88.950 Y=-3.850 Z=1.643
82 X= 93.950 Y=-3.850 Z=1.729
83 X= 98.950 Y=-3.850 Z=1.815
84 X= 103.950 Y=-3.850 Z=1.901
85 X= 108.950 Y=-3.850 Z=1.987
86 X= 113.950 Y=-3.850 Z=2.073
87 X= 118.950 Y=-3.850 Z=2.159
88 X= 123.950 Y=-3.850 Z=2.245
89 X= 128.950 Y=-3.850 Z=2.330
90 X= 133.950 Y=-3.850 Z=2.416
91 X= 138.950 Y=-3.850 Z=2.502
92 X= 143.950 Y=-3.850 Z=2.588
93 X= 147.900 Y=-3.850 Z=2.656
94 X= 0.000 Y=0.000 Z=-1.100
95 X= 0.000 Y=0.900 Z=-1.100
96 X= 0.000 Y=-0.900 Z=-1.100
97 X= 48.950 Y=0.000 Z=-0.359
98 X= 48.950 Y=0.900 Z=-0.359
99 X= 48.950 Y=-0.900 Z=-0.359
100 X= 98.950 Y=0.000 Z=0.500
101 X= 98.950 Y=0.900 Z=0.500
102 X= 98.950 Y=-0.900 Z=0.500
103 X= 147.900 Y=0.000 Z=1.440
104 X= 147.900 Y=0.900 Z=1.440
105 X= 147.900 Y=-0.900 Z=1.440
106 X= 0.000 Y=-7.700 Z=-0.869
107 X= 0.000 Y=-6.800 Z=-0.869
108 X= 0.000 Y=-6.600 Z=-0.869
109 X= 48.950 Y=-7.700 Z=-0.128
110 X= 48.950 Y=-6.800 Z=-0.128
111 X= 48.950 Y=-6.600 Z=-0.128
112 X= 98.950 Y=-7.700 Z=0.731
113 X= 98.950 Y=-6.800 Z=0.731
114 X= 98.950 Y=-6.600 Z=0.731
115 X= 147.900 Y=-7.700 Z=1.671
116 X= 147.900 Y=-6.800 Z=1.671
117 X= 147.900 Y=-6.600 Z=1.671

LOCAL

ADD= 95 ANG=0.000
ADD= 96 ANG=0.000
ADD= 98 ANG=0.000
ADD= 99 ANG=0.000
ADD= 101 ANG=0.000
ADD= 102 ANG=0.000
ADD= 104 ANG=0.000
ADD= 105 ANG=0.000
ADD= 107 ANG=0.000
ADD= 108 ANG=0.000
ADD= 110 ANG=0.000
ADD= 111 ANG=0.000
ADD= 113 ANG=0.000
ADD= 114 ANG=0.000
ADD= 116 ANG=0.000
ADD= 117 ANG=0.000

RESTRAINT

ADD= 95 DOF= U2, U3,
ADD= 96 DOF= U2, U3,
ADD= 98 DOF= U2, U3,
ADD= 99 DOF= U2, U3,
ADD= 101 DOF= U1, U2, U3,
ADD= 102 DOF= U1, U2, U3,
ADD= 104 DOF= U2, U3,

- 1 -

ADD= 105 DOF= U2, U3,
ADD= 107 DOF= U3,
ADD= 108 DOF= U3,
ADD= 110 DOF= U3,
ADD= 111 DOF= U3,
ADD= 113 DOF= U1, U3,
ADD= 114 DOF= U1, U3,
ADD= 116 DOF= U3,
ADD= 117 DOF= U3,

MATERIAL

Name=1
E=2.05e+008
Name=2
E=2.05e+008
Name=3
E=2.05e+008
Name=4
E=2.05e+008
Name=5
E=2.05e+008
Name=6
E=2.05e+008
Name=7
E=2.05e+008
Name=8
E=2.05e+008
Name=9
E=2.05e+008
Name=10
E=2.05e+008
Name=11
E=2.05e+008

FRAME SECTION

Name= 1 Mat= 1 A=0.13086 I=0.11408277, 0.11762658 J=0.14557724 : GIRDER
Name= 2 Mat= 2 A=0.13566 I=0.13821923, 0.12460793 J=0.16601711 : GIRDER
Name= 3 Mat= 3 A=0.16734 I=0.18502743, 0.14300768 J=0.20176314 : GIRDER
Name= 4 Mat= 4 A=0.15678 I=0.16937522, 0.13687443 J=0.19159819 : GIRDER
Name= 5 Mat= 5 A=0.19374 I=0.22358650, 0.16102880 J=0.2252279 : GIRDER
Name= 6 Mat= 6 A=0.23598 I=0.28734496, 0.18287379 J=0.24516971 : GIRDER
Name= 7 Mat= 7 A=0.19374 I=0.22453142, 0.16102880 J=0.2252279 : GIRDER
Name= 8 Mat= 8 A=0.15150 I=0.16176322, 0.13880790 J=0.18706394 : GIRDER
Name= 9 Mat= 9 A=0.02280 I=0.00529551, 0.00005419 J=0.00000109 : CROSSBEAM
Name= 10 Mat= 10 A=0.01920 I=0.00284355, 0.00005414 J=0.00000092 : STRINGER
Name= 11 Mat= 11 A=10.000000 I=10.00000000, 10.00000000 J=10.00000000 : SHOE
Name= 12 Type=Nonpr Sec= 1, 2 Elvar=2.1
Name= 13 Type=Nonpr Sec= 2, 1
Name= 14 Type=Nonpr Sec= 2, 3
Name= 15 Type=Nonpr Sec= 3, 2
Name= 16 Type=Nonpr Sec= 3, 4
Name= 17 Type=Nonpr Sec= 4, 3
Name= 18 Type=Nonpr Sec= 4, 5
Name= 19 Type=Nonpr Sec= 5, 4
Name= 20 Type=Nonpr Sec= 5, 6
Name= 21 Type=Nonpr Sec= 5, 7
Name= 22 Type=Nonpr Sec= 6, 5
Name= 23 Type=Nonpr Sec= 7, 5
Name= 24 Type=Nonpr Sec= 7, 8
Name= 25 Type=Nonpr Sec= 8, 7

FRAME

1 J= 1, 2 Sec=12 Local=12 Pdir=Z, X NSEG=4
2 J= 2, 3 Sec=2
3 J= 3, 4 Sec=14
4 J= 4, 5 Sec=3
5 J= 5, 6 Sec=16
6 J= 6, 7 Sec=4
7 J= 7, 8 Sec=4
8 J= 8, 9 Sec=18
9 J= 9, 10 Sec=5
10 J= 10, 11 Sec=20
11 J= 11, 12 Sec=22
12 J= 12, 13 Sec=5
13 J= 13, 14 Sec=21
14 J= 14, 15 Sec=24

- 3 -

- 2 -

15 J= 15, 16 Sec= 8
16 J= 16, 17 Sec= 8
17 J= 17, 18 Sec=25
18 J= 18, 19 Sec=23
19 J= 19, 20 Sec= 5
20 J= 20, 21 Sec=20
21 J= 21, 22 Sec=22
22 J= 22, 23 Sec= 5
23 J= 23, 24 Sec=19
24 J= 24, 25 Sec= 4
25 J= 25, 26 Sec= 4
26 J= 26, 27 Sec=17
27 J= 27, 28 Sec= 3
28 J= 28, 29 Sec=15
29 J= 29, 30 Sec= 2
30 J= 30, 31 Sec=13
31 J= 32, 33 Sec=12
32 J= 33, 34 Sec= 2
33 J= 34, 35 Sec=14
34 J= 35, 36 Sec= 3
35 J= 36, 37 Sec=16
36 J= 37, 38 Sec= 4
37 J= 38, 39 Sec= 4
38 J= 39, 40 Sec=18
39 J= 40, 41 Sec= 5
40 J= 41, 42 Sec=20
41 J= 42, 43 Sec=22
42 J= 43, 44 Sec= 5
43 J= 44, 45 Sec=21
44 J= 45, 46 Sec=24
45 J= 46, 47 Sec= 8
46 J= 47, 48 Sec= 8
47 J= 48, 49 Sec=25
48 J= 49, 50 Sec=23
49 J= 50, 51 Sec= 5
50 J= 51, 52 Sec=20
51 J= 52, 53 Sec=22
52 J= 53, 54 Sec= 5
53 J= 54, 55 Sec=19
54 J= 55, 56 Sec= 4
55 J= 56, 57 Sec= 4
56 J= 57, 58 Sec=17
57 J= 58, 59 Sec= 3
58 J= 59, 60 Sec=15
59 J= 60, 61 Sec= 2
60 J= 61, 62 Sec=13
61 J= 1, 63 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
62 J= 63, 32 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
63 J= 2, 64 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
64 J= 64, 33 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
65 J= 3, 65 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
66 J= 65, 34 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
67 J= 4, 66 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
68 J= 66, 35 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
69 J= 5, 67 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
70 J= 67, 36 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
71 J= 6, 68 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
72 J= 68, 37 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
73 J= 7, 69 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
74 J= 69, 38 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
75 J= 8, 70 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
76 J= 70, 39 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
77 J= 9, 71 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
78 J= 71, 40 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
79 J= 10, 72 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
80 J= 72, 41 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
81 J= 11, 73 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
82 J= 73, 42 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
83 J= 12, 74 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
84 J= 74, 43 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
85 J= 13, 75 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
86 J= 75, 44 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
87 J= 14, 76 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
88 J= 76, 45 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
89 J= 15, 77 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
90 J= 77, 46 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0

- 4 -

```

167 J=108, 106 Sec=11
168 J= 42, 109 Sec=11
169 J=110, 109 Sec=11
170 J=111, 109 Sec=11
171 J= 52, 112 Sec=11
172 J=113, 112 Sec=11
173 J=114, 112 Sec=11
174 J= 62, 115 Sec=11
175 J=116, 115 Sec=11
176 J=117, 115 Sec=11

```

- 6 -

Add-139	RD=0.000, 1.000	Uzpp=2-235, -2,235	
Add-140	RD=0.000, 1.000	Uzpp=2-235, -2,235	
Add-141	RD=0.000, 1.000	Uzpp=2-235, -2,235	
Add-142	RD=0.000, 1.000	Uzpp=2-235, -2,235	
Add-143	RD=0.000, 1.000	Uzpp=2-235, -2,235	
Add-144	RD=0.000, 1.000	Uzpp=2-235, -2,235	
Add-145	RD=0.000, 1.000	Uzpp=2-235, -2,235	
Add-146	RD=0.000, 1.000	Uzpp=2-235, -2,235	
Add-147	RD=0.000, 1.000	Uzpp=2-235, -2,235	
Add-148	RD=0.000, 1.000	Uzpp=2-235, -2,235	
Add-149	RD=0.000, 1.000	Uzpp=2-235, -2,235	
Add-150	RD=0.000, 1.000	Uzpp=2-235, -2,235	
Add-151	RD=0.000, 1.000	Uzpp=2-235, -2,235	
Add-152	RD=0.000, 1.000	Uzpp=2-235, -2,235	
Name=CONC : SLAB SELF-WEIGHT LOAD			
Type=Distributed Span			
Add-1	RD=0.000, 0.506	Uzpp=-65.553, -65.553	R1=2.201, 2.201
Add-2	RD=0.506, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-3	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-4	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-5	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-6	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-7	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-8	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-9	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-10	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-11	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-12	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-13	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-14	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-15	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-16	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-17	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-18	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-19	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-20	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-21	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-22	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-23	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-24	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-25	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-26	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-27	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-28	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-29	RD=0.000, 1.000	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-30	RD=0.000, 0.494	Uzpp=-38.604, -38.604	R1=0.169, 0.169
Add-31	RD=0.494, 1.000	Uzpp=-65.553, -65.553	R1=2.201, 2.201
Add-32	RD=0.000, 1.000	Uzpp=-39.063, -39.063	R1=5.359, 5.359
Add-33	RD=0.000, 1.000	Uzpp=-39.063, -39.063	R1=5.359, 5.359
Add-34	RD=0.000, 1.000	Uzpp=-39.063, -39.063	R1=5.359, 5.359
Add-35	RD=0.000, 1.000	Uzpp=-39.063, -39.063	R1=5.359, 5.359
Add-36	RD=0.000, 1.000	Uzpp=-39.063, -39.063	R1=5.359, 5.359
Add-37	RD=0.000, 1.000	Uzpp=-39.063, -39.063	R1=5.359, 5.359
Add-38	RD=0.000, 1.000	Uzpp=-39.063, -39.063	R1=5.359, 5.359
Add-39	RD=0.000, 1.000	Uzpp=-39.063, -39.063	R1=5.359, 5.359
Add-40	RD=0.000, 1.000	Uzpp=-39.063, -39.063	R1=5.359, 5.359
Add-41	RD=0.000, 1.000	Uzpp=-39.063, -39.063	R1=5.359, 5.359
Add-42	RD=0.000, 1.000	Uzpp=-39.063, -39.063	R1=5.359, 5.359
Add-43	RD=0.000, 1.000	Uzpp=-39.063, -39.063	R1=5.359, 5.359
Add-44	RD=0.000, 1.000	Uzpp=-39.063, -39.063	R1=5.359, 5

- 8 -

Add= 57 RD=0.000, 1.000 Uzp=-39.063, -39.063 R1=5.359, 5.359
Add= 58 RD=0.000, 1.000 Uzp=-39.063, -39.063 R1=5.359, 5.359
Add= 59 RD=0.052, 0.688 Uzp=-39.063, -39.063 R1=5.359, 5.359
Add= 60 RD=0.000, 0.494 Uzp=-39.063, -39.063 R1=5.195, 5.195
Add= 60 RD=0.494, 1.000 Uzp=-64.817, -64.817
Add=123 RD=0.000, 0.506 Uzp=-37.617, -37.617
Add=123 RD=0.506, 1.000 Uzp=-18.365, -18.365
Add=124 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=125 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=126 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=127 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=128 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=129 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=130 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=131 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=132 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=133 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=134 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=135 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=136 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=137 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=138 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=139 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=140 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=141 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=142 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=143 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=144 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=145 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=146 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=147 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=148 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=149 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=150 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=151 RD=0.000, 1.000 Uzp=-18.365, -18.365
Add=152 RD=0.000, 0.494 Uzp=-18.365, -18.365
Add=152 RD=0.494, 1.000 Uzp=-37.617, -37.617

Name=CR-HUNCH : CROSSBEAM HUNCH SELF-WEIGHT LOAD
Type=Distributed Span

Add= 63 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 64 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 65 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 66 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 67 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 68 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 69 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 70 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 71 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 72 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 73 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 74 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 75 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 76 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 77 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 78 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 79 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 80 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 81 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 82 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 83 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 84 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 85 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 86 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 87 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 88 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 89 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 90 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 91 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 92 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 93 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 94 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 95 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 96 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add= 97 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add= 98 RD=0.052, 0.688 Uzp=-0.740, -0.740

- 9 -

2) 합성부

< AFTER COMPOSITE SELF-WEIGHT LOAD >

SYSTEM

LENGTH=M FORCE=kN

JOINT

1 X= 0.000 Y=0.000 Z=0.000
2 X= 3.950 Y=0.000 Z=0.068
3 X= 8.950 Y=0.000 Z=0.154
4 X= 13.950 Y=0.000 Z=0.240
5 X= 18.950 Y=0.000 Z=0.325
6 X= 23.950 Y=0.000 Z=0.411
7 X= 28.950 Y=0.000 Z=0.497
8 X= 33.950 Y=0.000 Z=0.583
9 X= 38.950 Y=0.000 Z=0.669
10 X= 43.950 Y=0.000 Z=0.755
11 X= 48.950 Y=0.000 Z=0.841
12 X= 53.950 Y=0.000 Z=0.927
13 X= 58.950 Y=0.000 Z=1.013
14 X= 63.950 Y=0.000 Z=1.099
15 X= 68.950 Y=0.000 Z=1.184
16 X= 73.950 Y=0.000 Z=1.270
17 X= 78.950 Y=0.000 Z=1.356
18 X= 83.950 Y=0.000 Z=1.442
19 X= 88.950 Y=0.000 Z=1.528
20 X= 93.950 Y=0.000 Z=1.614
21 X= 98.950 Y=0.000 Z=1.700
22 X= 103.950 Y=0.000 Z=1.785
23 X= 108.950 Y=0.000 Z=1.871
24 X= 113.950 Y=0.000 Z=1.957
25 X= 118.950 Y=0.000 Z=2.043
26 X= 123.950 Y=0.000 Z=2.129
27 X= 128.950 Y=0.000 Z=2.215
28 X= 133.950 Y=0.000 Z=2.301
29 X= 138.950 Y=0.000 Z=2.387
30 X= 143.950 Y=0.000 Z=2.473
31 X= 147.900 Y=0.000 Z=2.540
32 X= 0.000 Y=-7.700 Z=0.231
33 X= 3.950 Y=-7.700 Z=0.299
34 X= 8.950 Y=-7.700 Z=0.385
35 X= 13.950 Y=-7.700 Z=0.471
36 X= 18.950 Y=-7.700 Z=0.556
37 X= 23.950 Y=-7.700 Z=0.642
38 X= 28.950 Y=-7.700 Z=0.728
39 X= 33.950 Y=-7.700 Z=0.814
40 X= 38.950 Y=-7.700 Z=0.900
41 X= 43.950 Y=-7.700 Z=0.986
42 X= 48.950 Y=-7.700 Z=1.072
43 X= 53.950 Y=-7.700 Z=1.158
44 X= 58.950 Y=-7.700 Z=1.244
45 X= 63.950 Y=-7.700 Z=1.329
46 X= 68.950 Y=-7.700 Z=1.415
47 X= 73.950 Y=-7.700 Z=1.501
48 X= 78.950 Y=-7.700 Z=1.587
49 X= 83.950 Y=-7.700 Z=1.673
50 X= 88.950 Y=-7.700 Z=1.759
51 X= 93.950 Y=-7.700 Z=1.845
52 X= 98.950 Y=-7.700 Z=1.931
53 X= 103.950 Y=-7.700 Z=2.016
54 X= 108.950 Y=-7.700 Z=2.102
55 X= 113.950 Y=-7.700 Z=2.188
56 X= 118.950 Y=-7.700 Z=2.274
57 X= 123.950 Y=-7.700 Z=2.360
58 X= 128.950 Y=-7.700 Z=2.446
59 X= 133.950 Y=-7.700 Z=2.532
60 X= 138.950 Y=-7.700 Z=2.618
61 X= 143.950 Y=-7.700 Z=2.704
62 X= 147.900 Y=-7.700 Z=2.771
63 X= -0.000 Y=-3.850 Z=0.116
64 X= 3.950 Y=-3.850 Z=0.183
65 X= 8.950 Y=-3.850 Z=0.269
66 X= 13.950 Y=-3.850 Z=0.355
67 X= 18.950 Y=-3.850 Z=0.441

Add= 99 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add=100 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add=101 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add=102 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add=103 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add=104 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add=105 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add=106 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add=107 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add=108 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add=109 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add=110 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add=111 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add=112 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add=113 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add=114 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add=115 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add=116 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add=117 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add=118 RD=0.052, 0.688 Uzp=-0.740, -0.740
Add=119 RD=0.312, 0.948 Uzp=-1.403, -1.403
Add=120 RD=0.052, 0.688 Uzp=-0.740, -0.740

COMBO

Name=STEEL Type=ADD :
LOAD=STEEL sf=1.000

Name=CONC Type=ADD :
LOAD=CONC sf=1.000
LOAD=CR-HUNCH sf=1.000

OUTPUT

ELEM=JOINT TYPE=DISP, REAC LOAD=** COMB=**
ELEM=FRAME TYPE=FORCE LOAD=** COMB=**

68 X= 23.950 Y=-3.850 Z=0.527
69 X= 28.950 Y=-3.850 Z=0.613
70 X= 33.950 Y=-3.850 Z=0.699
71 X= 38.950 Y=-3.850 Z=0.785
72 X= 43.950 Y=-3.850 Z=0.870
73 X= 48.950 Y=-3.850 Z=0.956
74 X= 53.950 Y=-3.850 Z=1.042
75 X= 58.950 Y=-3.850 Z=1.128
76 X= 63.950 Y=-3.850 Z=1.214
77 X= 68.950 Y=-3.850 Z=1.300
78 X= 73.950 Y=-3.850 Z=1.386
79 X= 78.950 Y=-3.850 Z=1.472
80 X= 83.950 Y=-3.850 Z=1.557
81 X= 88.950 Y=-3.850 Z=1.643
82 X= 93.950 Y=-3.850 Z=1.729
83 X= 98.950 Y=-3.850 Z=1.815
84 X= 103.950 Y=-3.850 Z=1.901
85 X= 108.950 Y=-3.850 Z=1.987
86 X= 113.950 Y=-3.850 Z=2.073
87 X= 118.950 Y=-3.850 Z=2.159
88 X= 123.950 Y=-3.850 Z=2.245
89 X= 128.950 Y=-3.850 Z=2.330
90 X= 133.950 Y=-3.850 Z=2.416
91 X= 138.950 Y=-3.850 Z=2.502
92 X= 143.950 Y=-3.850 Z=2.588
93 X= 147.900 Y=-3.850 Z=2.665
94 X= 0.000 Y=0.000 Z=-1.100
95 X= 0.000 Y=0.900 Z=-1.100
96 X= 0.000 Y=-0.900 Z=-1.100
97 X= 48.950 Y=0.000 Z=-0.359
98 X= 48.950 Y=0.900 Z=-0.359
99 X= 48.950 Y=-0.900 Z=-0.359
100 X= 98.950 Y=0.000 Z=-0.500
101 X= 98.950 Y=0.900 Z=-0.500
102 X= 98.950 Y=-0.900 Z=-0.500
103 X= 147.900 Y=0.000 Z=1.440
104 X= 147.900 Y=0.900 Z=1.440
105 X= 147.900 Y=-0.900 Z=1.440
106 X= 0.000 Y=-7.700 Z=-0.869
107 X= 0.000 Y=-6.800 Z=-0.869
108 X= 0.000 Y=-6.800 Z=-0.869
109 X= 48.950 Y=-7.700 Z=-0.128
110 X= 48.950 Y=-6.800 Z=-0.128
111 X= 48.950 Y=-6.800 Z=-0.128
112 X= 98.950 Y=-7.700 Z=0.731
113 X= 98.950 Y=-6.800 Z=0.731
114 X= 98.950 Y=-6.800 Z=0.731
115 X= 147.900 Y=-7.700 Z=1.671
116 X= 147.900 Y=-6.800 Z=1.671
117 X= 147.900 Y=-6.800 Z=1.671

LOCAL

ADD= 95 ANG=0.000
ADD= 96 ANG=0.000
ADD= 98 ANG=0.000
ADD= 99 ANG=0.000
ADD= 101 ANG=0.000
ADD= 102 ANG=0.000
ADD= 104 ANG=0.000
ADD= 105 ANG=0.000
ADD= 107 ANG=0.000
ADD= 108 ANG=0.000
ADD= 110 ANG=0.000
ADD= 111 ANG=0.000
ADD= 113 ANG=0.000
ADD= 114 ANG=0.000
ADD= 116 ANG=0.000
ADD= 117 ANG=0.000

RESTRAINT

ADD= 95 DOF= U2, U3,
ADD= 96 DOF= U2, U3,
ADD= 98 DOF= U2, U3,
ADD= 99 DOF= U2, U3,

- 11 -

- 10 -

- 12 -

ADD= 101 DOF= U1, U2, U3,
ADD= 102 DOF= U1, U2, U3,
ADD= 104 DOF= U2, U3,
ADD= 105 DOF= U2, U3,
ADD= 107 DOF= U3,
ADD= 108 DOF= U3,
ADD= 110 DOF= U3,
ADD= 111 DOF= U3,
ADD= 113 DOF= U1, U3,
ADD= 114 DOF= U1, U3,
ADD= 116 DOF= U3,
ADD= 117 DOF= U3,

MATERIAL

Name=1
E=2.05e+008
Name=2
E=2.05e+008
Name=3
E=2.05e+008
Name=4
E=2.05e+008
Name=5
E=2.05e+008
Name=6
E=2.05e+008
Name=7
E=2.05e+008
Name=8
E=2.05e+008
Name=9
E=2.05e+008
Name=10
E=2.05e+008
Name=11
E=2.05e+008

FRAME SECTION

Name= 1 Mat= 1 A=0.35269 I=0.25764888, 0.89166281 J=0.19369776 : GIRDER
Name= 2 Mat= 2 A=0.35749 I=0.30842244, 0.89956212 J=0.21784781 : GIRDER
Name= 3 Mat= 3 A=0.38917 I=0.37568605, 0.92345247 J=0.24065462 : GIRDER
Name= 4 Mat= 4 A=0.37861 I=0.35359463, 0.91559111 J=0.23414470 : GIRDER
Name= 5 Mat= 5 A=0.41557 I=0.44065530, 0.94540962 J=0.25228981 : GIRDER
Name= 6 Mat= 6 A=0.45781 I=0.52316492, 0.97260805 J=0.26807856 : GIRDER
Name= 7 Mat= 7 A=0.41557 I=0.42028771, 0.94540962 J=0.25228981 : GIRDER
Name= 8 Mat= 8 A=0.37333 I=0.33201657, 0.91162377 J=0.22754167 : GIRDER
Name= 9 Mat= 9 A=0.02280 I=0.00529551, 0.00005419 J=0.00000109 : CROSSBEAM
Name= 10 Mat= 10 A=0.01920 I=0.00284355, 0.00005414 J=0.00000092 : STRINGER
Name= 11 Mat= 11 A=10.000000 I=10.00000000, 10.00000000 J=10.00000000 : SHOE
Name= 12 Type=Nonpr Sec= 1, 2 Elvar=2.1
Name= 13 Type=Nonpr Sec= 2, 1
Name= 14 Type=Nonpr Sec= 2, 3
Name= 15 Type=Nonpr Sec= 3, 2
Name= 16 Type=Nonpr Sec= 3, 4
Name= 17 Type=Nonpr Sec= 4, 3
Name= 18 Type=Nonpr Sec= 4, 5
Name= 19 Type=Nonpr Sec= 5, 4
Name= 20 Type=Nonpr Sec= 5, 6
Name= 21 Type=Nonpr Sec= 5, 7
Name= 22 Type=Nonpr Sec= 6, 5
Name= 23 Type=Nonpr Sec= 7, 5
Name= 24 Type=Nonpr Sec= 7, 8
Name= 25 Type=Nonpr Sec= 8, 7

FRAME

1 J= 1, 2 Sec=12 Local=12 Pldir=Z,X NSEG=4
2 J= 2, 3 Sec=2
3 J= 3, 4 Sec=14
4 J= 4, 5 Sec=3
5 J= 5, 6 Sec=16
6 J= 6, 7 Sec=4
7 J= 7, 8 Sec=4
8 J= 8, 9 Sec=18
9 J= 9, 10 Sec=5

10 J= 10, 11 Sec=20
11 J= 11, 12 Sec=22
12 J= 12, 13 Sec=5
13 J= 13, 14 Sec=21
14 J= 14, 15 Sec=24
15 J= 15, 16 Sec=8
16 J= 16, 17 Sec=8
17 J= 17, 18 Sec=25
18 J= 18, 19 Sec=23
19 J= 19, 20 Sec=5
20 J= 20, 21 Sec=20
21 J= 21, 22 Sec=22
22 J= 22, 23 Sec=5
23 J= 23, 24 Sec=19
24 J= 24, 25 Sec=4
25 J= 25, 26 Sec=4
26 J= 26, 27 Sec=17
27 J= 27, 28 Sec=3
28 J= 28, 29 Sec=15
29 J= 29, 30 Sec=2
30 J= 30, 31 Sec=13
31 J= 32, 33 Sec=12
32 J= 33, 34 Sec=2
33 J= 34, 35 Sec=14
34 J= 35, 36 Sec=3
35 J= 36, 37 Sec=16
36 J= 37, 38 Sec=4
37 J= 38, 39 Sec=4
38 J= 39, 40 Sec=18
39 J= 40, 41 Sec=5
40 J= 41, 42 Sec=20
41 J= 42, 43 Sec=22
42 J= 43, 44 Sec=5
43 J= 44, 45 Sec=21
44 J= 45, 46 Sec=24
45 J= 46, 47 Sec=8
46 J= 47, 48 Sec=8
47 J= 48, 49 Sec=25
48 J= 49, 50 Sec=23
49 J= 50, 51 Sec=5
50 J= 51, 52 Sec=20
51 J= 52, 53 Sec=22
52 J= 53, 54 Sec=5
53 J= 54, 55 Sec=19
54 J= 55, 56 Sec=4
55 J= 56, 57 Sec=4
56 J= 57, 58 Sec=17
57 J= 58, 59 Sec=3
58 J= 59, 60 Sec=15
59 J= 60, 61 Sec=2
60 J= 61, 62 Sec=13
61 J= 1, 63 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
62 J= 63, 32 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
63 J= 2, 64 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
64 J= 64, 33 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
65 J= 3, 65 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
66 J= 65, 34 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
67 J= 4, 66 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
68 J= 66, 35 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
69 J= 5, 67 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
70 J= 67, 36 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
71 J= 6, 68 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
72 J= 68, 37 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
73 J= 7, 69 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
74 J= 69, 38 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
75 J= 8, 70 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
76 J= 70, 39 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
77 J= 9, 71 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
78 J= 71, 40 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
79 J= 10, 72 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
80 J= 72, 41 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
81 J= 11, 73 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
82 J= 73, 42 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
83 J= 12, 74 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0

- 14 -

- 13 -

84 J= 74, 43 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
85 J= 13, 75 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
86 J= 75, 44 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
87 J= 14, 76 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
88 J= 76, 45 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
89 J= 15, 77 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
90 J= 77, 46 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
91 J= 16, 78 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
92 J= 78, 47 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
93 J= 17, 79 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
94 J= 79, 48 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
95 J= 18, 80 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
96 J= 80, 49 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
97 J= 19, 81 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
98 J= 81, 50 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
99 J= 20, 82 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
100 J= 82, 51 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
101 J= 21, 83 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
102 J= 83, 52 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
103 J= 22, 84 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
104 J= 84, 53 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
105 J= 23, 85 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
106 J= 85, 54 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
107 J= 24, 86 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
108 J= 86, 55 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
109 J= 25, 87 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
110 J= 87, 56 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
111 J= 26, 88 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
112 J= 88, 57 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
113 J= 27, 89 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
114 J= 89, 58 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
115 J= 28, 90 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
116 J= 90, 59 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
117 J= 29, 91 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
118 J= 91, 60 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
119 J= 30, 92 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
120 J= 92, 61 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
121 J= 31, 93 Sec=9 IOFF=1.200 JOFF=0.000 RIGD=1.0
122 J= 93, 62 Sec=9 IOFF=0.000 JOFF=1.200 RIGD=1.0
123 J= 63, 64 Sec=10
124 J= 64, 65 Sec=10
125 J= 65, 66 Sec=10
126 J= 66, 67 Sec=10
127 J= 67, 68 Sec=10
128 J= 68, 69 Sec=10
129 J= 69, 70 Sec=10
130 J= 70, 71 Sec=10
131 J= 71, 72 Sec=10
132 J= 72, 73 Sec=10
133 J= 73, 74 Sec=10
134 J= 74, 75 Sec=10
135 J= 75, 76 Sec=10
136 J= 76, 77 Sec=10
137 J= 77, 78 Sec=10
138 J= 78, 79 Sec=10
139 J= 79, 80 Sec=10
140 J= 80, 81 Sec=10
141 J= 81, 82 Sec=10
142 J= 82, 83 Sec=10
143 J= 83, 84 Sec=10
144 J= 84, 85 Sec=10
145 J= 85, 86 Sec=10
146 J= 86, 87 Sec=10
147 J= 87, 88 Sec=10
148 J= 88, 89 Sec=10
149 J= 89, 90 Sec=10
150 J= 90, 91 Sec=10
151 J= 91, 92 Sec=10
152 J= 92, 93 Sec=10
153 J= 1, 94 Sec=11
154 J= 95, 94 Sec=11
155 J= 96, 94 Sec=11
156 J= 11, 97 Sec=11
157 J= 98, 97 Sec=11

LOAD

Name=AFTER : AFTER SELF-WEIGHT LOAD (부속시설하중 포함)

Type=Distributed Span

Add= 1 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 2 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 3 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 4 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 5 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 6 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 7 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 8 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 9 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 10 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 11 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 12 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 13 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 14 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 15 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 16 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 17 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 18 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 19 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 20 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 21 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 22 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 23 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 24 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 25 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 26 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 27 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 28 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 29 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 30 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 31 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 32 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 33 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 34 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 35 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 36 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 37 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 38 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 39 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 40 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 41 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 42 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 43 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 44 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 45 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 46 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 47 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 48 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 49 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 50 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245
Add= 51 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=-21.245, -21.245

- 15 -

- 16 -

Add= 52 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=21.245, 21.245
Add= 53 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=21.245, 21.245
Add= 54 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=21.245, 21.245
Add= 55 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=21.245, 21.245
Add= 56 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=21.245, 21.245
Add= 57 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=21.245, 21.245
Add= 58 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=21.245, 21.245
Add= 59 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=21.245, 21.245
Add= 60 RD=0.000, 1.000 Uzp=-18.495, -18.495 R1=21.245, 21.245
Add=123 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=124 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=125 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=126 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=127 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=128 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=129 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=130 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=131 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=132 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=133 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=134 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=135 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=136 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=137 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=138 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=139 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=140 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=141 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=142 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=143 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=144 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=145 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=146 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=147 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=148 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=149 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=150 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=151 RD=0.000, 1.000 Uzp=-7.567, -7.567
Add=152 RD=0.000, 1.000 Uzp=-7.567, -7.567

COMBO

Name=AFTER Type=ADD :
LOAD=AFTER sf=1.000

OUTPUT
ELEM=JOINT TYPE=DISP.REAC LOAD=** COMB=**
ELEM=FRAME TYPE=FORCE LOAD=** COMB=**

68 X= 23.950 Y=-3.850 Z=0.527
69 X= 28.950 Y=-3.850 Z=0.613
70 X= 33.950 Y=-3.850 Z=0.699
71 X= 38.950 Y=-3.850 Z=0.785
72 X= 43.950 Y=-3.850 Z=0.870
73 X= 48.950 Y=-3.850 Z=0.956
74 X= 53.950 Y=-3.850 Z=1.042
75 X= 58.950 Y=-3.850 Z=1.128
76 X= 63.950 Y=-3.850 Z=1.214
77 X= 68.950 Y=-3.850 Z=1.300
78 X= 73.950 Y=-3.850 Z=1.386
79 X= 78.950 Y=-3.850 Z=1.472
80 X= 83.950 Y=-3.850 Z=1.557
81 X= 88.950 Y=-3.850 Z=1.643
82 X= 93.950 Y=-3.850 Z=1.729
83 X= 98.950 Y=-3.850 Z=1.815
84 X= 103.950 Y=-3.850 Z=1.901
85 X= 108.950 Y=-3.850 Z=1.987
86 X= 113.950 Y=-3.850 Z=2.073
87 X= 118.950 Y=-3.850 Z=2.159
88 X= 123.950 Y=-3.850 Z=2.245
89 X= 128.950 Y=-3.850 Z=2.330
90 X= 133.950 Y=-3.850 Z=2.416
91 X= 138.950 Y=-3.850 Z=2.502
92 X= 143.950 Y=-3.850 Z=2.588
93 X= 147.900 Y=-3.850 Z=2.656
94 X= 0.000 Y=0.000 Z=-1.100
95 X= 0.000 Y=0.900 Z=-1.100
96 X= 0.000 Y=0.000 Z=-1.100
97 X= 48.950 Y=0.000 Z=-0.359
98 X= 48.950 Y=0.900 Z=-0.359
99 X= 48.950 Y=-0.900 Z=-0.359
100 X= 98.950 Y=0.000 Z=0.500
101 X= 98.950 Y=0.900 Z=0.500
102 X= 98.950 Y=-0.900 Z=0.500
103 X= 147.900 Y=0.000 Z=1.440
104 X= 147.900 Y=0.900 Z=1.440
105 X= 147.900 Y=-0.900 Z=1.440
106 X= 0.000 Y=-7.700 Z=-0.869
107 X= 0.000 Y=-6.800 Z=-0.869
108 X= 0.000 Y=-6.800 Z=-0.869
109 X= 48.950 Y=-7.700 Z=-0.128
110 X= 48.950 Y=-6.800 Z=-0.128
111 X= 48.950 Y=-6.800 Z=-0.128
112 X= 98.950 Y=-7.700 Z=0.731
113 X= 98.950 Y=-6.800 Z=0.731
114 X= 98.950 Y=-6.800 Z=0.731
115 X= 147.900 Y=-7.700 Z=1.671
116 X= 147.900 Y=-6.800 Z=1.671
117 X= 147.900 Y=-6.800 Z=1.671

LOCAL

ADD= 95 ANG=0.000
ADD= 96 ANG=0.000
ADD= 98 ANG=0.000
ADD= 99 ANG=0.000
ADD= 101 ANG=0.000
ADD= 102 ANG=0.000
ADD= 104 ANG=0.000
ADD= 105 ANG=0.000
ADD= 107 ANG=0.000
ADD= 108 ANG=0.000
ADD= 110 ANG=0.000
ADD= 111 ANG=0.000
ADD= 113 ANG=0.000
ADD= 114 ANG=0.000
ADD= 116 ANG=0.000
ADD= 117 ANG=0.000

RESTRAINT

ADD= 95 DOF= U2, U3,
ADD= 96 DOF= U2, U3,
ADD= 98 DOF= U2, U3,
ADD= 99 DOF= U2, U3,

3 출하중 재하시
< MOVING LOAD >

SYSTEM
LENGTH=M FORCE=KN

JOINT
1 X= 0.000 Y=0.000 Z=0.000
2 X= 3.950 Y=0.000 Z=0.068
3 X= 8.950 Y=0.000 Z=0.154
4 X= 13.950 Y=0.000 Z=0.240
5 X= 18.950 Y=0.000 Z=0.325
6 X= 23.950 Y=0.000 Z=0.411
7 X= 28.950 Y=0.000 Z=0.497
8 X= 33.950 Y=0.000 Z=0.583
9 X= 38.950 Y=0.000 Z=0.669
10 X= 43.950 Y=0.000 Z=0.755
11 X= 48.950 Y=0.000 Z=0.841
12 X= 53.950 Y=0.000 Z=0.927
13 X= 58.950 Y=0.000 Z=1.013
14 X= 63.950 Y=0.000 Z=1.099
15 X= 68.950 Y=0.000 Z=1.184
16 X= 73.950 Y=0.000 Z=1.270
17 X= 78.950 Y=0.000 Z=1.356
18 X= 83.950 Y=0.000 Z=1.442
19 X= 88.950 Y=0.000 Z=1.528
20 X= 93.950 Y=0.000 Z=1.614
21 X= 98.950 Y=0.000 Z=1.700
22 X= 103.950 Y=0.000 Z=1.785
23 X= 108.950 Y=0.000 Z=1.871
24 X= 113.950 Y=0.000 Z=1.957
25 X= 118.950 Y=0.000 Z=2.043
26 X= 123.950 Y=0.000 Z=2.129
27 X= 128.950 Y=0.000 Z=2.215
28 X= 133.950 Y=0.000 Z=2.301
29 X= 138.950 Y=0.000 Z=2.387
30 X= 143.950 Y=0.000 Z=2.473
31 X= 147.900 Y=0.000 Z=2.540
32 X= 0.000 Y=-7.700 Z=0.231
33 X= 3.950 Y=-7.700 Z=0.299
34 X= 8.950 Y=-7.700 Z=0.365
35 X= 13.950 Y=-7.700 Z=0.471
36 X= 18.950 Y=-7.700 Z=0.556
37 X= 23.950 Y=-7.700 Z=0.642
38 X= 28.950 Y=-7.700 Z=0.728
39 X= 33.950 Y=-7.700 Z=0.814
40 X= 38.950 Y=-7.700 Z=0.900
41 X= 43.950 Y=-7.700 Z=0.986
42 X= 48.950 Y=-7.700 Z=1.072
43 X= 53.950 Y=-7.700 Z=1.158
44 X= 58.950 Y=-7.700 Z=1.244
45 X= 63.950 Y=-7.700 Z=1.329
46 X= 68.950 Y=-7.700 Z=1.415
47 X= 73.950 Y=-7.700 Z=1.501
48 X= 78.950 Y=-7.700 Z=1.587
49 X= 83.950 Y=-7.700 Z=1.673
50 X= 88.950 Y=-7.700 Z=1.759
51 X= 93.950 Y=-7.700 Z=1.845
52 X= 98.950 Y=-7.700 Z=1.931
53 X= 103.950 Y=-7.700 Z=2.016
54 X= 108.950 Y=-7.700 Z=2.102
55 X= 113.950 Y=-7.700 Z=2.188
56 X= 118.950 Y=-7.700 Z=2.274
57 X= 123.950 Y=-7.700 Z=2.360
58 X= 128.950 Y=-7.700 Z=2.446
59 X= 133.950 Y=-7.700 Z=2.532
60 X= 138.950 Y=-7.700 Z=2.618
61 X= 143.950 Y=-7.700 Z=2.704
62 X= 147.900 Y=-7.700 Z=2.771
63 X= -0.000 Y=-3.850 Z=0.116
64 X= 3.950 Y=-3.850 Z=0.183
65 X= 8.950 Y=-3.850 Z=0.269
66 X= 13.950 Y=-3.850 Z=0.355
67 X= 18.950 Y=-3.850 Z=0.441

ADD= 101 DOF= U1, U2, U3,
ADD= 102 DOF= U1, U2, U3,
ADD= 104 DOF= U2, U3,
ADD= 105 DOF= U2, U3,
ADD= 107 DOF= U3,
ADD= 108 DOF= U3,
ADD= 110 DOF= U3,
ADD= 111 DOF= U3,
ADD= 113 DOF= U1, U3,
ADD= 114 DOF= U1, U3,
ADD= 116 DOF= U3,
ADD= 117 DOF= U3,

MATERIAL

Name=1
E=2.05e+008
Name=2
E=2.05e+008
Name=3
E=2.05e+008
Name=4
E=2.05e+008
Name=5
E=2.05e+008
Name=6
E=2.05e+008
Name=7
E=2.05e+008
Name=8
E=2.05e+008
Name=9
E=2.05e+008
Name=10
E=2.05e+008
Name=11
E=2.05e+008

FRAME SECTION

Name= 1 Mat= 1 A=0.35269 I=0.25764888, 0.89166281 J=0.19369776 : GIRDER
Name= 2 Mat= 2 A=0.35749 I=0.30942244, 0.89956212 J=0.21784781 : GIRDER
Name= 3 Mat= 3 A=0.38917 I=0.37568605, 0.92345847 J=0.24065462 : GIRDER
Name= 4 Mat= 4 A=0.37861 I=0.35359463, 0.91559111 J=0.23414470 : GIRDER
Name= 5 Mat= 5 A=0.41557 I=0.44065530, 0.94540962 J=0.25228981 : GIRDER
Name= 6 Mat= 6 A=0.45781 I=0.52316492, 0.97260905 J=0.26807856 : GIRDER
Name= 7 Mat= 7 A=0.41557 I=0.42028771, 0.94540962 J=0.25228981 : GIRDER
Name= 8 Mat= 8 A=0.37861 I=0.33201657, 0.91162377 J=0.22754167 : GIRDER
Name= 9 Mat= 9 A=0.02280 I=0.00529551, 0.00005419 J=0.00000109 : CROSSBEAM
Name= 10 Mat= 10 A=0.01920 I=0.00284355, 0.00005414 J=0.00000092 : STRINGER
Name= 11 Mat= 11 A=10.000000 I=10.00000000, 10.00000000 J=10.00000000 : SHOE
Name= 12 Type=Nonpr Sec= 1, 2 Elvar=2.1
Name= 13 Type=Nonpr Sec= 2, 1
Name= 14 Type=Nonpr Sec= 2, 3
Name= 15 Type=Nonpr Sec= 3, 2
Name= 16 Type=Nonpr Sec= 3, 4
Name= 17 Type=Nonpr Sec= 4, 3
Name= 18 Type=Nonpr Sec= 4, 5
Name= 19 Type=Nonpr Sec= 5, 4
Name= 20 Type=Nonpr Sec= 5, 6
Name= 21 Type=Nonpr Sec= 5, 7
Name= 22 Type=Nonpr Sec= 6, 5
Name= 23 Type=Nonpr Sec= 7, 5
Name= 24 Type=Nonpr Sec= 7, 8
Name= 25 Type=Nonpr Sec= 8, 7

FRAME
1 J= 1, 2 Sec=12 Local=12 Pdir=2,K NSEG=4
2 J= 2, 3 Sec=2
3 J= 3, 4 Sec=14
4 J= 4, 5 Sec=3
5 J= 5, 6 Sec=16
6 J= 6, 7 Sec=4
7 J= 7, 8 Sec=4
8 J= 8, 9 Sec=18
9 J= 9, 10 Sec=5

10 J= 10, 11 Sec=20
11 J= 11, 12 Sec=22
12 J= 12, 13 Sec= 5
13 J= 13, 14 Sec=21
14 J= 14, 15 Sec=24
15 J= 15, 16 Sec= 8
16 J= 16, 17 Sec= 8
17 J= 17, 18 Sec=25
18 J= 18, 19 Sec=23
19 J= 19, 20 Sec= 5
20 J= 20, 21 Sec=20
21 J= 21, 22 Sec=22
22 J= 22, 23 Sec= 5
23 J= 23, 24 Sec=19
24 J= 24, 25 Sec= 4
25 J= 25, 26 Sec= 4
26 J= 26, 27 Sec=17
27 J= 27, 28 Sec= 3
28 J= 28, 29 Sec=15
29 J= 29, 30 Sec= 2
30 J= 30, 31 Sec=13
31 J= 32, 33 Sec=12
32 J= 33, 34 Sec= 2
33 J= 34, 35 Sec=14
34 J= 35, 36 Sec= 3
35 J= 36, 37 Sec=16
36 J= 37, 38 Sec= 4
37 J= 38, 39 Sec= 4
38 J= 39, 40 Sec=18
39 J= 40, 41 Sec= 5
40 J= 41, 42 Sec=20
41 J= 42, 43 Sec=22
42 J= 43, 44 Sec= 5
43 J= 44, 45 Sec=21
44 J= 45, 46 Sec=24
45 J= 46, 47 Sec= 8
46 J= 47, 48 Sec= 8
47 J= 48, 49 Sec=25
48 J= 49, 50 Sec=23
49 J= 50, 51 Sec= 5
50 J= 51, 52 Sec=20
51 J= 52, 53 Sec=22
52 J= 53, 54 Sec= 5
53 J= 54, 55 Sec=19
54 J= 55, 56 Sec= 4
55 J= 56, 57 Sec= 4
56 J= 57, 58 Sec=17
57 J= 58, 59 Sec= 3
58 J= 59, 60 Sec=15
59 J= 60, 61 Sec= 2
60 J= 61, 62 Sec=13
61 J= 1, 63 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
62 J= 63, 32 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
63 J= 2, 64 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
64 J= 64, 33 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
65 J= 3, 65 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
66 J= 65, 34 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
67 J= 4, 66 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
68 J= 66, 35 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
69 J= 5, 67 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
70 J= 67, 36 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
71 J= 6, 68 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
72 J= 68, 37 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
73 J= 7, 69 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
74 J= 69, 38 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
75 J= 8, 70 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
76 J= 70, 39 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
77 J= 9, 71 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
78 J= 71, 40 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
79 J= 10, 72 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
80 J= 72, 41 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
81 J= 11, 73 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
82 J= 73, 42 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
83 J= 12, 74 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0

158 J= 99, 97 Sec=11
159 J= 21, 100 Sec=11
160 J=101, 100 Sec=11
161 J=102, 100 Sec=11
162 J= 31, 103 Sec=11
163 J=104, 103 Sec=11
164 J=105, 103 Sec=11
165 J= 32, 106 Sec=11
166 J=107, 106 Sec=11
167 J=108, 106 Sec=11
168 J= 42, 109 Sec=11
169 J=110, 109 Sec=11
170 J=111, 109 Sec=11
171 J= 52, 112 Sec=11
172 J=113, 112 Sec=11
173 J=114, 112 Sec=11
174 J= 62, 115 Sec=11
175 J=116, 115 Sec=11
176 J=117, 115 Sec=11

LANE
: Case = 1 ----- G1 Max DB 1선
Name=L1G1
Path= 1, 10, 1, Ecc=0.348
Path= 11, 20, 1, Ecc=0.348
Path= 21, 30, 1, Ecc=0.348
Name=L1G1S1
Path= 123, 132, 1, Ecc=0.000
Path= 133, 142, 1, Ecc=0.000
Path= 143, 152, 1, Ecc=0.000
Name=L1G2
Path= 31, 40, 1, Ecc=1.744
Path= 41, 50, 1, Ecc=1.744
Path= 51, 60, 1, Ecc=1.744

: Case = 2 ----- G1 Max DB 2선
Name=L2G1
Path= 1, 10, 1, Ecc=-0.078
Path= 11, 20, 1, Ecc=-0.078
Path= 21, 30, 1, Ecc=-0.078
Name=L2G1S1
Path= 123, 132, 1, Ecc=0.000
Path= 133, 142, 1, Ecc=0.000
Path= 143, 152, 1, Ecc=0.000
Name=L2G2
Path= 31, 40, 1, Ecc=1.731
Path= 41, 50, 1, Ecc=1.731
Path= 51, 60, 1, Ecc=1.731

: Case = 3 ----- G1 Max DB 3선
Name=L3G1
Path= 1, 10, 1, Ecc=-0.060
Path= 11, 20, 1, Ecc=-0.060
Path= 21, 30, 1, Ecc=-0.060
Name=L3G1S1
Path= 123, 132, 1, Ecc=0.000
Path= 133, 142, 1, Ecc=0.000
Path= 143, 152, 1, Ecc=0.000
Name=L3G2
Path= 31, 40, 1, Ecc=0.837
Path= 41, 50, 1, Ecc=0.837
Path= 51, 60, 1, Ecc=0.837

: Case = 4 ----- G2 Max DB 1선
Name=L4G1
Path= 1, 10, 1, Ecc=-1.744
Path= 11, 20, 1, Ecc=-1.744
Path= 21, 30, 1, Ecc=-1.744
Name=L4G1S1
Path= 123, 132, 1, Ecc=0.000
Path= 133, 142, 1, Ecc=0.000
Path= 143, 152, 1, Ecc=0.000
Name=L4G2
Path= 31, 40, 1, Ecc=-0.348

84 J= 74, 43 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
85 J= 13, 75 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
86 J= 75, 44 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
87 J= 14, 76 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
88 J= 76, 45 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
89 J= 15, 77 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
90 J= 77, 46 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
91 J= 16, 78 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
92 J= 78, 47 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
93 J= 17, 79 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
94 J= 79, 48 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
95 J= 18, 80 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
96 J= 80, 49 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
97 J= 19, 81 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
98 J= 81, 50 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
99 J= 20, 82 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
100 J= 82, 51 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
101 J= 21, 83 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
102 J= 83, 52 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
103 J= 22, 84 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
104 J= 84, 53 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
105 J= 23, 85 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
106 J= 85, 54 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
107 J= 24, 86 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
108 J= 86, 55 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
109 J= 25, 87 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
110 J= 87, 56 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
111 J= 26, 88 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
112 J= 88, 57 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
113 J= 27, 89 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
114 J= 89, 58 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
115 J= 28, 90 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
116 J= 90, 59 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
117 J= 29, 91 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
118 J= 91, 60 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
119 J= 30, 92 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
120 J= 92, 61 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
121 J= 31, 93 Sec= 9 IOFF=1.200 JOFF=0.000 RIGD=1.0
122 J= 93, 62 Sec= 9 IOFF=0.000 JOFF=1.200 RIGD=1.0
123 J= 63, 64 Sec=10
124 J= 64, 65 Sec=10
125 J= 65, 66 Sec=10
126 J= 66, 67 Sec=10
127 J= 67, 68 Sec=10
128 J= 68, 69 Sec=10
129 J= 69, 70 Sec=10
130 J= 70, 71 Sec=10
131 J= 71, 72 Sec=10
132 J= 72, 73 Sec=10
133 J= 73, 74 Sec=10
134 J= 74, 75 Sec=10
135 J= 75, 76 Sec=10
136 J= 76, 77 Sec=10
137 J= 77, 78 Sec=10
138 J= 78, 79 Sec=10
139 J= 79, 80 Sec=10
140 J= 80, 81 Sec=10
141 J= 81, 82 Sec=10
142 J= 82, 83 Sec=10
143 J= 83, 84 Sec=10
144 J= 84, 85 Sec=10
145 J= 85, 86 Sec=10
146 J= 86, 87 Sec=10
147 J= 87, 88 Sec=10
148 J= 88, 89 Sec=10
149 J= 89, 90 Sec=10
150 J= 90, 91 Sec=10
151 J= 91, 92 Sec=10
152 J= 92, 93 Sec=10
153 J= 1, 94 Sec=11
154 J= 95, 94 Sec=11
155 J= 96, 94 Sec=11
156 J= 11, 97 Sec=11
157 J= 98, 97 Sec=11

Path= 41, 50, 1, Ecc=-0.348
Path= 51, 60, 1, Ecc=-0.348

: Case = 5 ----- G2 Max DB 2선
Name=L5G1
Path= 1, 10, 1, Ecc=-1.731
Path= 11, 20, 1, Ecc=-1.731
Path= 21, 30, 1, Ecc=-1.731
Name=L5G1S1
Path= 123, 132, 1, Ecc=0.000
Path= 133, 142, 1, Ecc=0.000
Path= 143, 152, 1, Ecc=0.000
Name=L5G2
Path= 31, 40, 1, Ecc=0.078
Path= 41, 50, 1, Ecc=0.078
Path= 51, 60, 1, Ecc=0.078

: Case = 6 ----- G2 Max DB 3선
Name=L6G1
Path= 1, 10, 1, Ecc=-0.837
Path= 11, 20, 1, Ecc=-0.837
Path= 21, 30, 1, Ecc=-0.837
Name=L6G1S1
Path= 123, 132, 1, Ecc=0.000
Path= 133, 142, 1, Ecc=0.000
Path= 143, 152, 1, Ecc=0.000
Name=L6G2
Path= 31, 40, 1, Ecc=0.060
Path= 41, 50, 1, Ecc=0.060
Path= 51, 60, 1, Ecc=0.060

: Case = 7 ----- G1 Max DL 1선
Name=L7G1
Path= 1, 10, 1, Ecc=0.341
Path= 11, 20, 1, Ecc=0.341
Path= 21, 30, 1, Ecc=0.341
Name=L7G1S1
Path= 123, 132, 1, Ecc=0.000
Path= 133, 142, 1, Ecc=0.000
Path= 143, 152, 1, Ecc=0.000
Name=L7G2
Path= 31, 40, 1, Ecc=1.743
Path= 41, 50, 1, Ecc=1.743
Path= 51, 60, 1, Ecc=1.743

: Case = 8 ----- G1 Max DL 2선
Name=L8G1
Path= 1, 10, 1, Ecc=-0.078
Path= 11, 20, 1, Ecc=-0.078
Path= 21, 30, 1, Ecc=-0.078
Name=L8G1S1
Path= 123, 132, 1, Ecc=0.000
Path= 133, 142, 1, Ecc=0.000
Path= 143, 152, 1, Ecc=0.000
Name=L8G2
Path= 31, 40, 1, Ecc=1.778
Path= 41, 50, 1, Ecc=1.778
Path= 51, 60, 1, Ecc=1.778

: Case = 9 ----- G1 Max DL 3선
Name=L9G1
Path= 1, 10, 1, Ecc=-0.066
Path= 11, 20, 1, Ecc=-0.066
Path= 21, 30, 1, Ecc=-0.066
Name=L9G1S1
Path= 123, 132, 1, Ecc=0.000
Path= 133, 142, 1, Ecc=0.000
Path= 143, 152, 1, Ecc=0.000
Name=L9G2
Path= 31, 40, 1, Ecc=0.860
Path= 41, 50, 1, Ecc=0.860
Path= 51, 60, 1, Ecc=0.860

: Case = 10 ----- G2 Max DL 1선

Name=L10G1
Path= 1, 10, 1, Ecc=-1.743
Path= 11, 20, 1, Ecc=-1.743
Path= 21, 30, 1, Ecc=-1.743
Name=L10GIS1
Path= 123, 132, 1, Ecc=0.000
Path= 133, 142, 1, Ecc=0.000
Path= 143, 152, 1, Ecc=0.000
Name=L10G2
Path= 31, 40, 1, Ecc=-0.341
Path= 41, 50, 1, Ecc=-0.341
Path= 51, 60, 1, Ecc=-0.341

: Case = 11 ----- G2 Max DL 2선
Name=L11G1
Path= 1, 10, 1, Ecc=-1.778
Path= 11, 20, 1, Ecc=-1.778
Path= 21, 30, 1, Ecc=-1.778
Name=L11GIS1
Path= 123, 132, 1, Ecc=0.000
Path= 133, 142, 1, Ecc=0.000
Path= 143, 152, 1, Ecc=0.000
Name=L11G2
Path= 31, 40, 1, Ecc=0.078
Path= 41, 50, 1, Ecc=0.078
Path= 51, 60, 1, Ecc=0.078

: Case = 12 ----- G2 Max DL 3선
Name=L12G1
Path= 1, 10, 1, Ecc=-0.860
Path= 11, 20, 1, Ecc=-0.860
Path= 21, 30, 1, Ecc=-0.860
Name=L12GIS1
Path= 123, 132, 1, Ecc=0.000
Path= 133, 142, 1, Ecc=0.000
Path= 143, 152, 1, Ecc=0.000
Name=L12G2
Path= 31, 40, 1, Ecc=0.066
Path= 41, 50, 1, Ecc=0.066
Path= 51, 60, 1, Ecc=0.066

VEHICLES
Name=1 TYPE=Gen : DB-24
P=24.000
D=4.200 P=96.000
D=4.200 9.000 P=96.000

Name=2 TYPE=Gen : DL-24
W=4.233 PM=36.000 PXM=52.000

Vehicle Class
Name=1
Vehi=1
Name=2
Vehi=2

Bridge Response
Elem=Frame
Add=**
Elem=JointType=DISP
Add=**
Elem=Joint Type=REAC
Add=**

MOVING LOAD
Name= 1 Rf=1.000 : G1 Max DB 1선
Lane= L1G1 Class=1 Lmin= 1 Lmax= 1 Sf=2.083
Lane= L1G2 Class=1 Lmin= 1 Lmax= 1 Sf=0.022

Name= 2 Rf=1.000 : G1 Max DB 2선
Lane= L2G1 Class=1 Lmin= 1 Lmax= 1 Sf=2.693
Lane= L2GIS1 Class=1 Lmin= 1 Lmax= 1 Sf=1.327

- 25 -

Name=G2XDL2 Type=ENVE : G2 Max DL 2선
MOVE=11 sf=1.169

Name=G2XDL3 Type=ENVE : G2 Max DL 3선
MOVE=12 sf=1.169

Name=DB Type=ENVE :
COMB=G1XDB1 sf=1.000
COMB=G1XDB2 sf=1.000
COMB=G1XDB3 sf=1.000
COMB=G2XDB1 sf=1.000
COMB=G2XDB2 sf=1.000
COMB=G2XDB3 sf=1.000

Name=DL Type=ENVE :
COMB=G1XDL1 sf=1.000
COMB=G1XDL2 sf=1.000
COMB=G1XDL3 sf=1.000
COMB=G2XDL1 sf=1.000
COMB=G2XDL2 sf=1.000
COMB=G2XDL3 sf=1.000

Name=CAR Type=ENVE :
COMB=DB sf=1.000
COMB=DL sf=1.000
Name=DESIGN Type=ENVE :
COMB=CAR sf=1.000

OUTPUT
ELEM=JOINT TYPE=DISP,REAC LOAD=** COMB=**
ELEM=FRAME TYPE=FORCE LOAD=** COMB=**

- 27 -

Name= 3 Rf=0.900 : G1 Max DB 3선
Lane= L3G1 Class=1 Lmin= 1 Lmax= 1 Sf=2.665
Lane= L3GIS1 Class=1 Lmin= 1 Lmax= 1 Sf=1.477
Lane= L3G2 Class=1 Lmin= 1 Lmax= 1 Sf=1.858

Name= 4 Rf=1.000 : G2 Max DB 1선
Lane= L4G1 Class=1 Lmin= 1 Lmax= 1 Sf=0.022
Lane= L4G2 Class=1 Lmin= 1 Lmax= 1 Sf=2.083

Name= 5 Rf=1.000 : G2 Max DB 2선
Lane= L5GIS1 Class=1 Lmin= 1 Lmax= 1 Sf=1.327
Lane= L5G2 Class=1 Lmin= 1 Lmax= 1 Sf=2.693

Name= 6 Rf=0.900 : G2 Max DB 3선
Lane= L6G1 Class=1 Lmin= 1 Lmax= 1 Sf=1.858
Lane= L6GIS1 Class=1 Lmin= 1 Lmax= 1 Sf=1.477
Lane= L6G2 Class=1 Lmin= 1 Lmax= 1 Sf=2.665

Name= 7 Rf=1.000 : G1 Max DL 1선
Lane= L7G1 Class=2 Lmin= 1 Lmax= 1 Sf=3.131
Lane= L7G2 Class=2 Lmin= 1 Lmax= 1 Sf=0.034

Name= 8 Rf=1.000 : G1 Max DL 2선
Lane= L8G1 Class=2 Lmin= 1 Lmax= 1 Sf=4.029
Lane= L8GIS1 Class=2 Lmin= 1 Lmax= 1 Sf=2.021

Name= 9 Rf=0.900 : G1 Max DL 3선
Lane= L9G1 Class=2 Lmin= 1 Lmax= 1 Sf=4.000
Lane= L9GIS1 Class=2 Lmin= 1 Lmax= 1 Sf=2.195
Lane= L9G2 Class=2 Lmin= 1 Lmax= 1 Sf=2.805

Name= 10 Rf=1.000 : G2 Max DL 1선
Lane= L10G1 Class=2 Lmin= 1 Lmax= 1 Sf=0.034
Lane= L10G2 Class=2 Lmin= 1 Lmax= 1 Sf=3.131

Name= 11 Rf=1.000 : G2 Max DL 2선
Lane= L11GIS1 Class=2 Lmin= 1 Lmax= 1 Sf=2.021
Lane= L11G2 Class=2 Lmin= 1 Lmax= 1 Sf=4.029

Name= 12 Rf=0.900 : G2 Max DL 3선
Lane= L12G1 Class=2 Lmin= 1 Lmax= 1 Sf=2.805
Lane= L12GIS1 Class=2 Lmin= 1 Lmax= 1 Sf=2.195
Lane= L12G2 Class=2 Lmin= 1 Lmax= 1 Sf=4.000

COMBO
Name=G1XDB1 Type=ENVE : G1 Max DB 1선
MOVE=1 sf=1.169

Name=G1XDB2 Type=ENVE : G1 Max DB 2선
MOVE=2 sf=1.169

Name=G1XDB3 Type=ENVE : G1 Max DB 3선
MOVE=3 sf=1.169

Name=G2XDB1 Type=ENVE : G2 Max DB 1선
MOVE=4 sf=1.169

Name=G2XDB2 Type=ENVE : G2 Max DB 2선
MOVE=5 sf=1.169

Name=G2XDB3 Type=ENVE : G2 Max DB 3선
MOVE=6 sf=1.169

Name=G1XDL1 Type=ENVE : G1 Max DL 1선
MOVE=7 sf=1.169

Name=G1XDL2 Type=ENVE : G1 Max DL 2선
MOVE=8 sf=1.169

Name=G1XDL3 Type=ENVE : G1 Max DL 3선
MOVE=9 sf=1.169

Name=G2XDL1 Type=ENVE : G2 Max DL 1선
MOVE=10 sf=1.169

- 26 -

4) 부등침하 < UNEQUAL SETTLEMENT >

SYSTEM	LENGTH=M	FORCE=KN
JOINT		
1	X= 0.000	Y=0.000 Z=0.000
2	X= 3.950	Y=0.000 Z=0.068
3	X= 8.950	Y=0.000 Z=0.154
4	X= 13.950	Y=0.000 Z=0.240
5	X= 18.950	Y=0.000 Z=0.325
6	X= 23.950	Y=0.000 Z=0.411
7	X= 28.950	Y=0.000 Z=0.497
8	X= 33.950	Y=0.000 Z=0.583
9	X= 38.950	Y=0.000 Z=0.669
10	X= 43.950	Y=0.000 Z=0.755
11	X= 48.950	Y=0.000 Z=0.841
12	X= 53.950	Y=0.000 Z=0.927
13	X= 58.950	Y=0.000 Z=1.013
14	X= 63.950	Y=0.000 Z=1.099
15	X= 68.950	Y=0.000 Z=1.184
16	X= 73.950	Y=0.000 Z=1.270
17	X= 78.950	Y=0.000 Z=1.356
18	X= 83.950	Y=0.000 Z=1.442
19	X= 88.950	Y=0.000 Z=1.528
20	X= 93.950	Y=0.000 Z=1.614
21	X= 98.950	Y=0.000 Z=1.700
22	X= 103.950	Y=0.000 Z=1.785
23	X= 108.950	Y=0.000 Z=1.871
24	X= 113.950	Y=0.000 Z=1.957
25	X= 118.950	Y=0.000 Z=2.043
26	X= 123.950	Y=0.000 Z=2.129
27	X= 128.950	Y=0.000 Z=2.215
28	X= 133.950	Y=0.000 Z=2.301
29	X= 138.950	Y=0.000 Z=2.387
30	X= 143.950	Y=0.000 Z=2.473
31	X= 147.900	Y=0.000 Z=2.540
32	X= 0.000	Y=-7.700 Z=0.231
33	X= 3.950	Y=-7.700 Z=0.299
34	X= 8.950	Y=-7.700 Z=0.365
35	X= 13.950	Y=-7.700 Z=0.471
36	X= 18.950	Y=-7.700 Z=0.556
37	X= 23.950	Y=-7.700 Z=0.642
38	X= 28.950	Y=-7.700 Z=0.728
39	X= 33.950	Y=-7.700 Z=0.814
40	X= 38.950	Y=-7.700 Z=0.900
41	X= 43.950	Y=-7.700 Z=0.986
42	X= 48.950	Y=-7.700 Z=1.072
43	X= 53.950	Y=-7.700 Z=1.158
44	X= 58.950	Y=-7.700 Z=1.244
45	X= 63.950	Y=-7.700 Z=1.329
46	X= 68.950	Y=-7.700 Z=1.415
47	X= 73.950	Y=-7.700 Z=1.501
48	X= 78.950	Y=-7.700 Z=1.587
49	X= 83.950	Y=-7.700 Z=1.673
50	X= 88.950	Y=-7.700 Z=1.759
51	X= 93.950	Y=-7.700 Z=1.845
52	X= 98.950	Y=-7.700 Z=1.931
53	X= 103.950	Y=-7.700 Z=2.016
54	X= 108.950	Y=-7.700 Z=2.102
55	X= 113.950	Y=-7.700 Z=2.188
56	X= 118.950	Y=-7.700 Z=2.274
57	X= 123.950	Y=-7.700 Z=2.360
58	X= 128.950	Y=-7.700 Z=2.446
59	X= 133.950	Y=-7.700 Z=2.532
60	X= 138.950	Y=-7.700 Z=2.618
61	X= 143.950	Y=-7.700 Z=2.704
62	X= 147.900	Y=-7.700 Z=2.771
63	X= -0.000	Y=-3.850 Z=0.116
64	X= 3.950	Y=-3.850 Z=0.183
65	X= 8.950	Y=-3.850 Z=0.269
66	X= 13.950	Y=-3.850 Z=0.355
67	X= 18.950	Y=-3.850 Z=0.441

- 28 -

68 X= 23.950 Y=-3.850 Z=0.527
69 X= 28.950 Y=-3.850 Z=0.613
70 X= 33.950 Y=-3.850 Z=-0.689
71 X= 38.950 Y=-3.850 Z=0.785
72 X= 43.950 Y=-3.850 Z=0.870
73 X= 48.950 Y=-3.850 Z=0.956
74 X= 53.950 Y=-3.850 Z=-1.042
75 X= 58.950 Y=-3.850 Z=1.128
76 X= 63.950 Y=-3.850 Z=1.214
77 X= 68.950 Y=-3.850 Z=1.300
78 X= 73.950 Y=-3.850 Z=1.386
79 X= 78.950 Y=-3.850 Z=1.472
80 X= 83.950 Y=-3.850 Z=1.557
81 X= 88.950 Y=-3.850 Z=1.643
82 X= 93.950 Y=-3.850 Z=1.729
83 X= 98.950 Y=-3.850 Z=1.815
84 X= 103.950 Y=-3.850 Z=1.901
85 X= 108.950 Y=-3.850 Z=1.987
86 X= 113.950 Y=-3.850 Z=2.073
87 X= 118.950 Y=-3.850 Z=2.159
88 X= 123.950 Y=-3.850 Z=2.245
89 X= 128.950 Y=-3.850 Z=2.330
90 X= 133.950 Y=-3.850 Z=2.416
91 X= 138.950 Y=-3.850 Z=2.502
92 X= 143.950 Y=-3.850 Z=2.588
93 X= 147.900 Y=-3.850 Z=2.656
94 X= 0.000 Y=0.000 Z=-1.100
95 X= 0.000 Y=0.900 Z=-1.100
96 X= 0.000 Y=-0.900 Z=-1.100
97 X= 48.950 Y=0.000 Z=-0.359
98 X= 48.950 Y=0.900 Z=-0.359
99 X= 48.950 Y=-0.900 Z=-0.359
100 X= 98.950 Y=0.000 Z=0.500
101 X= 98.950 Y=0.900 Z=0.500
102 X= 98.950 Y=-0.900 Z=0.500
103 X= 147.900 Y=0.000 Z=1.440
104 X= 147.900 Y=0.900 Z=1.440
105 X= 147.900 Y=-0.900 Z=1.440
106 X= 0.000 Y=-7.700 Z=-0.869
107 X= 0.000 Y=-6.800 Z=-0.869
108 X= 0.000 Y=-6.800 Z=-0.869
109 X= 48.950 Y=-7.700 Z=-0.128
110 X= 48.950 Y=-6.800 Z=-0.128
111 X= 48.950 Y=-6.800 Z=-0.128
112 X= 98.950 Y=-7.700 Z=-0.731
113 X= 98.950 Y=-6.800 Z=-0.731
114 X= 98.950 Y=-6.800 Z=-0.731
115 X= 147.900 Y=-7.700 Z=1.671
116 X= 147.900 Y=-6.800 Z=1.671
117 X= 147.900 Y=-6.800 Z=1.671

LOCAL
ADD= 95 ANG=0.000
ADD= 96 ANG=0.000
ADD= 98 ANG=0.000
ADD= 99 ANG=0.000
ADD= 101 ANG=0.000
ADD= 102 ANG=0.000
ADD= 104 ANG=0.000
ADD= 105 ANG=0.000
ADD= 107 ANG=0.000
ADD= 108 ANG=0.000
ADD= 110 ANG=0.000
ADD= 111 ANG=0.000
ADD= 113 ANG=0.000
ADD= 114 ANG=0.000
ADD= 116 ANG=0.000
ADD= 117 ANG=0.000

RESTRAINT
ADD= 95 DOF= U2, U3,
ADD= 96 DOF= U2, U3,
ADD= 98 DOF= U2, U3,
ADD= 99 DOF= U2, U3,

- 29 -

10 J= 10, 11 Sec=20
11 J= 11, 12 Sec=22
12 J= 12, 13 Sec= 5
13 J= 13, 14 Sec=21
14 J= 14, 15 Sec=24
15 J= 15, 16 Sec= 8
16 J= 16, 17 Sec= 8
17 J= 17, 18 Sec=25
18 J= 18, 19 Sec=23
19 J= 19, 20 Sec= 5
20 J= 20, 21 Sec=20
21 J= 21, 22 Sec=22
22 J= 22, 23 Sec= 5
23 J= 23, 24 Sec=19
24 J= 24, 25 Sec= 4
25 J= 25, 26 Sec= 4
26 J= 26, 27 Sec=17
27 J= 27, 28 Sec= 3
28 J= 28, 29 Sec=15
29 J= 29, 30 Sec= 2
30 J= 30, 31 Sec=13
31 J= 32, 33 Sec=12
32 J= 33, 34 Sec= 2
33 J= 34, 35 Sec=14
34 J= 35, 36 Sec= 3
35 J= 36, 37 Sec=16
36 J= 37, 38 Sec= 4
37 J= 38, 39 Sec= 4
38 J= 39, 40 Sec=18
39 J= 40, 41 Sec= 5
40 J= 41, 42 Sec=20
41 J= 42, 43 Sec=22
42 J= 43, 44 Sec= 5
43 J= 44, 45 Sec=21
44 J= 45, 46 Sec=24
45 J= 46, 47 Sec= 8
46 J= 47, 48 Sec= 8
47 J= 48, 49 Sec=25
48 J= 49, 50 Sec=23
49 J= 50, 51 Sec= 5
50 J= 51, 52 Sec=20
51 J= 52, 53 Sec=22
52 J= 53, 54 Sec= 5
53 J= 54, 55 Sec=19
54 J= 55, 56 Sec= 4
55 J= 56, 57 Sec= 4
56 J= 57, 58 Sec=17
57 J= 58, 59 Sec= 3
58 J= 59, 60 Sec=15
59 J= 60, 61 Sec= 2
60 J= 61, 62 Sec=13
61 J= 1, 63 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
62 J= 63, 32 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
63 J= 2, 64 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
64 J= 64, 33 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
65 J= 3, 65 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
66 J= 65, 34 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
67 J= 4, 66 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
68 J= 66, 35 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
69 J= 5, 67 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
70 J= 67, 36 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
71 J= 6, 68 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
72 J= 68, 37 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
73 J= 7, 69 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
74 J= 69, 38 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
75 J= 8, 70 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
76 J= 70, 39 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
77 J= 9, 71 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
78 J= 71, 40 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
79 J= 10, 72 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
80 J= 72, 41 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
81 J= 11, 73 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
82 J= 73, 42 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
83 J= 12, 74 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0

- 31 -

ADD= 101 DOF= U1, U2, U3,
ADD= 102 DOF= U1, U2, U3,
ADD= 104 DOF= U2, U3,
ADD= 105 DOF= U2, U3,
ADD= 107 DOF= U3,
ADD= 108 DOF= U3,
ADD= 110 DOF= U3,
ADD= 111 DOF= U3,
ADD= 113 DOF= U1, U3,
ADD= 114 DOF= U1, U3,
ADD= 116 DOF= U3,
ADD= 117 DOF= U3,

MATERIAL
Name=1
E=2.05e+008
Name=2
E=2.05e+008
Name=3
E=2.05e+008
Name=4
E=2.05e+008
Name=5
E=2.05e+008
Name=6
E=2.05e+008
Name=7
E=2.05e+008
Name=8
E=2.05e+008
Name=9
E=2.05e+008
Name=10
E=2.05e+008
Name=11
E=2.05e+008

FRAME SECTION
Name= 1 Mat= 1 A=0.35269 I=0.25764888, 0.89166281 J=0.19369776 : GIRDER
Name= 2 Mat= 2 A=0.35749 I=0.30842244, 0.89956212 J=0.21784781 : GIRDER
Name= 3 Mat= 3 A=0.38917 I=0.37568005, 0.92345847 J=0.24065452 : GIRDER
Name= 4 Mat= 4 A=0.37861 I=0.35359463, 0.91559111 J=0.23414470 : GIRDER
Name= 5 Mat= 5 A=0.41557 I=0.44065530, 0.94540962 J=0.25228981 : GIRDER
Name= 6 Mat= 6 A=0.45781 I=0.52316492, 0.97260905 J=0.26807856 : GIRDER
Name= 7 Mat= 7 A=0.41557 I=0.43202871, 0.94540962 J=0.25228981 : GIRDER
Name= 8 Mat= 8 A=0.37833 I=0.33201657, 0.91162377 J=0.22754167 : GIRDER
Name= 9 Mat= 9 A=0.02280 I=0.00529551, 0.00005419 J=0.00000109 : CROSSBEAM
Name= 10 Mat= 10 A=0.01920 I=0.00284355, 0.00005414 J=0.00000092 : STRINGER
Name= 11 Mat= 11 A=10.000000 I=10.00000000, 10.00000000 J=10.00000000 : SHOE
Name= 12 Type=Nonpr Sec= 1, 2 Elvar=2.1
Name= 13 Type=Nonpr Sec= 2, 1
Name= 14 Type=Nonpr Sec= 2, 3
Name= 15 Type=Nonpr Sec= 3, 2
Name= 16 Type=Nonpr Sec= 3, 4
Name= 17 Type=Nonpr Sec= 4, 3
Name= 18 Type=Nonpr Sec= 4, 5
Name= 19 Type=Nonpr Sec= 5, 4
Name= 20 Type=Nonpr Sec= 5, 6
Name= 21 Type=Nonpr Sec= 5, 7
Name= 22 Type=Nonpr Sec= 6, 5
Name= 23 Type=Nonpr Sec= 7, 5
Name= 24 Type=Nonpr Sec= 7, 8
Name= 25 Type=Nonpr Sec= 8, 7

FRAME
1 J= 1, 2 Sec=12 Local=12 Pldir=Z, X NSEG=4
2 J= 2, 3 Sec=2
3 J= 3, 4 Sec=14
4 J= 4, 5 Sec= 3
5 J= 5, 6 Sec=16
6 J= 6, 7 Sec= 4
7 J= 7, 8 Sec= 4
8 J= 8, 9 Sec=18
9 J= 9, 10 Sec= 5

84 J= 74, 43 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
85 J= 13, 75 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
86 J= 75, 44 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
87 J= 14, 76 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
88 J= 76, 45 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
89 J= 15, 77 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
90 J= 77, 46 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
91 J= 16, 78 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
92 J= 78, 47 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
93 J= 17, 79 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
94 J= 79, 48 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
95 J= 18, 80 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
96 J= 80, 49 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
97 J= 19, 81 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
98 J= 81, 50 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
99 J= 20, 82 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
100 J= 82, 51 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
101 J= 21, 83 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
102 J= 83, 52 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
103 J= 22, 84 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
104 J= 84, 53 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
105 J= 23, 85 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
106 J= 85, 54 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
107 J= 24, 86 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
108 J= 86, 55 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
109 J= 25, 87 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
110 J= 87, 56 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
111 J= 26, 88 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
112 J= 88, 57 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
113 J= 27, 89 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
114 J= 89, 58 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
115 J= 28, 90 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
116 J= 90, 59 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
117 J= 29, 91 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
118 J= 91, 60 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
119 J= 30, 92 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
120 J= 92, 61 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
121 J= 31, 93 Sec= 9 IOFF=1.200 JOFF=0.000 RIGID=1.0
122 J= 93, 62 Sec= 9 IOFF=0.000 JOFF=1.200 RIGID=1.0
123 J= 63, 64 Sec=10
124 J= 64, 65 Sec=10
125 J= 65, 66 Sec=10
126 J= 66, 67 Sec=10
127 J= 67, 68 Sec=10
128 J= 68, 69 Sec=10
129 J= 69, 70 Sec=10
130 J= 70, 71 Sec=10
131 J= 71, 72 Sec=10
132 J= 72, 73 Sec=10
133 J= 73, 74 Sec=10
134 J= 74, 75 Sec=10
135 J= 75, 76 Sec=10
136 J= 76, 77 Sec=10
137 J= 77, 78 Sec=10
138 J= 78, 79 Sec=10
139 J= 79, 80 Sec=10
140 J= 80, 81 Sec=10
141 J= 81, 82 Sec=10
142 J= 82, 83 Sec=10
143 J= 83, 84 Sec=10
144 J= 84, 85 Sec=10
145 J= 85, 86 Sec=10
146 J= 86, 87 Sec=10
147 J= 87, 88 Sec=10
148 J= 88, 89 Sec=10
149 J= 89, 90 Sec=10
150 J= 90, 91 Sec=10
151 J= 91, 92 Sec=10
152 J= 92, 93 Sec=10
153 J= 93, 94 Sec=11
154 J= 94, 95 Sec=11
155 J= 95, 96 Sec=11
156 J= 11, 97 Sec=11
157 J= 98, 97 Sec=11

- 30 -

- 32 -

```

158 J= 99, 97 Sec=11
159 J= 21, 100 Sec=11
160 J=101, 100 Sec=11
161 J=102, 100 Sec=11
162 J= 31, 103 Sec=11
163 J=104, 103 Sec=11
164 J=105, 103 Sec=11
165 J= 32, 106 Sec=11
166 J=107, 106 Sec=11
167 J=108, 106 Sec=11
168 J= 42, 109 Sec=11
169 J=110, 109 Sec=11
170 J=111, 109 Sec=11
171 J= 52, 112 Sec=11
172 J=113, 112 Sec=11
173 J=114, 112 Sec=11
174 J= 62, 115 Sec=11
175 J=116, 115 Sec=11
176 J=117, 115 Sec=11

LOAD
Name=A1 : UNEQUAL SETTLEMENT
Type=RESTRAINT DISPLACEMENT
Add= 95 Uz=-0.010
Add= 96 Uz=-0.010
Add=107 Uz=-0.010
Add=108 Uz=-0.010

Name=P1 : UNEQUAL SETTLEMENT
Type=RESTRAINT DISPLACEMENT
Add= 98 Uz=-0.010
Add= 99 Uz=-0.010
Add=110 Uz=-0.010
Add=111 Uz=-0.010

Name=P2 : UNEQUAL SETTLEMENT
Type=RESTRAINT DISPLACEMENT
Add=101 Uz=-0.010
Add=102 Uz=-0.010
Add=113 Uz=-0.010
Add=114 Uz=-0.010

Name=A2 : UNEQUAL SETTLEMENT
Type=RESTRAINT DISPLACEMENT
Add=104 Uz=-0.010
Add=105 Uz=-0.010
Add=116 Uz=-0.010
Add=117 Uz=-0.010

COMBO
Name=2N1 Type=ENVE :
LOAD=A1 sf=1,000
LOAD=P1 sf=1,000

Name=2N2 Type=ENVE :
LOAD=A1 sf=1,000
LOAD=P2 sf=1,000

Name=2N3 Type=ENVE :
LOAD=A1 sf=1,000
LOAD=A2 sf=1,000

Name=2N4 Type=ENVE :
LOAD=P1 sf=1,000
LOAD=P2 sf=1,000

Name=2N5 Type=ENVE :
LOAD=P1 sf=1,000
LOAD=A2 sf=1,000

Name=2N6 Type=ENVE :
LOAD=P2 sf=1,000
LOAD=A2 sf=1,000

```

```

Name=3N1 Type=ENVE :
LOAD=A1 sf=1,000
LOAD=P1 sf=1,000
LOAD=P2 sf=1,000

Name=3N2 Type=ENVE :
LOAD=A1 sf=1,000
LOAD=P1 sf=1,000
LOAD=A2 sf=1,000

Name=3N3 Type=ENVE :
LOAD=A1 sf=1,000
LOAD=P2 sf=1,000
LOAD=A2 sf=1,000

Name=3N4 Type=ENVE :
LOAD=P1 sf=1,000
LOAD=P2 sf=1,000
LOAD=A2 sf=1,000

Name=2N Type=ENVE :
COMB=2N1 sf=1,000
COMB=2N2 sf=1,000
COMB=2N3 sf=1,000
COMB=2N4 sf=1,000
COMB=2N5 sf=1,000
COMB=2N6 sf=1,000

Name=3N Type=ENVE :
COMB=3N1 sf=1,000
COMB=3N2 sf=1,000
COMB=3N3 sf=1,000
COMB=3N4 sf=1,000

Name=SETTLE Type=ENVE :
LOAD=A1 sf=1,000
LOAD=P1 sf=1,000
LOAD=P2 sf=1,000
LOAD=A2 sf=1,000
COMB=2N sf=1,000
COMB=3N sf=1,000

OUTPUT
ELEM=JOINT TYPE=DISP, REAC LOAD=* COMB=*
ELEM=FRAME TYPE=FORCE LOAD=* COMB=*

```