

■ 역산교

1) 합성 전

< BEFORE COMPOSITE SELF-WEIGHT LOAD >

SYSTEM
LENGTH=M FORCE=KN

JOINT

1 X= 0.000 Y=0.000 Z=0.000
2 X= 4.385 Y=0.000 Z=-0.021
3 X= 9.385 Y=0.000 Z=-0.044
4 X= 14.385 Y=0.000 Z=-0.068
5 X= 19.385 Y=0.000 Z=-0.092
6 X= 24.385 Y=0.000 Z=-0.115
7 X= 29.385 Y=0.000 Z=-0.139
8 X= 34.385 Y=0.000 Z=-0.163
9 X= 39.385 Y=0.000 Z=-0.186
10 X= 44.385 Y=0.000 Z=-0.210
11 X= 49.385 Y=0.000 Z=-0.233
12 X= 54.385 Y=0.000 Z=-0.257
13 X= 59.385 Y=0.000 Z=-0.281
14 X= 64.385 Y=0.000 Z=-0.304
15 X= 69.385 Y=0.000 Z=-0.328
16 X= 74.385 Y=0.000 Z=-0.352
17 X= 79.385 Y=0.000 Z=-0.375
18 X= 84.385 Y=0.000 Z=-0.399
19 X= 89.385 Y=0.000 Z=-0.423
20 X= 94.385 Y=0.000 Z=-0.446
21 X= 99.385 Y=0.000 Z=-0.470
22 X= 104.385 Y=0.000 Z=-0.493
23 X= 109.385 Y=0.000 Z=-0.517
24 X= 114.385 Y=0.000 Z=-0.541
25 X= 119.385 Y=0.000 Z=-0.564
26 X= 124.385 Y=0.000 Z=-0.588
27 X= 129.385 Y=0.000 Z=-0.612
28 X= 134.385 Y=0.000 Z=-0.635
29 X= 138.770 Y=0.000 Z=-0.656
30 X= 0.000 Y=-7.300 Z=-0.146
31 X= 4.385 Y=-7.300 Z=-0.167
32 X= 9.385 Y=-7.300 Z=-0.190
33 X= 14.385 Y=-7.300 Z=-0.214
34 X= 19.385 Y=-7.300 Z=-0.238
35 X= 24.385 Y=-7.300 Z=-0.261
36 X= 29.385 Y=-7.300 Z=-0.285
37 X= 34.385 Y=-7.300 Z=-0.309
38 X= 39.385 Y=-7.300 Z=-0.332
39 X= 44.385 Y=-7.300 Z=-0.356
40 X= 49.385 Y=-7.300 Z=-0.379
41 X= 54.385 Y=-7.300 Z=-0.403
42 X= 59.385 Y=-7.300 Z=-0.427
43 X= 64.385 Y=-7.300 Z=-0.450
44 X= 69.385 Y=-7.300 Z=-0.474
45 X= 74.385 Y=-7.300 Z=-0.498
46 X= 79.385 Y=-7.300 Z=-0.521
47 X= 84.385 Y=-7.300 Z=-0.545
48 X= 89.385 Y=-7.300 Z=-0.569
49 X= 94.385 Y=-7.300 Z=-0.592
50 X= 99.385 Y=-7.300 Z=-0.616
51 X= 104.385 Y=-7.300 Z=-0.639
52 X= 109.385 Y=-7.300 Z=-0.663
53 X= 114.385 Y=-7.300 Z=-0.687
54 X= 119.385 Y=-7.300 Z=-0.710
55 X= 124.385 Y=-7.300 Z=-0.734
56 X= 129.385 Y=-7.300 Z=-0.758
57 X= 134.385 Y=-7.300 Z=-0.781
58 X= 138.770 Y=-7.300 Z=-0.802
59 X= 0.000 Y=-3.650 Z=-0.073
60 X= 4.385 Y=-3.650 Z=-0.094
61 X= 9.385 Y=-3.650 Z=-0.117
62 X= 14.385 Y=-3.650 Z=-0.141
63 X= 19.385 Y=-3.650 Z=-0.165
64 X= 24.385 Y=-3.650 Z=-0.188
65 X= 29.385 Y=-3.650 Z=-0.212
66 X= 34.385 Y=-3.650 Z=-0.236
67 X= 39.385 Y=-3.650 Z=-0.259

68 X= 44.385 Y=-3.650 Z=-0.283
69 X= 49.385 Y=-3.650 Z=-0.306
70 X= 54.385 Y=-3.650 Z=-0.330
71 X= 59.385 Y=-3.650 Z=-0.354
72 X= 64.385 Y=-3.650 Z=-0.377
73 X= 69.385 Y=-3.650 Z=-0.401
74 X= 74.385 Y=-3.650 Z=-0.425
75 X= 79.385 Y=-3.650 Z=-0.448
76 X= 84.385 Y=-3.650 Z=-0.472
77 X= 89.385 Y=-3.650 Z=-0.496
78 X= 94.385 Y=-3.650 Z=-0.519
79 X= 99.385 Y=-3.650 Z=-0.543
80 X= 104.385 Y=-3.650 Z=-0.566
81 X= 109.385 Y=-3.650 Z=-0.590
82 X= 114.385 Y=-3.650 Z=-0.614
83 X= 119.385 Y=-3.650 Z=-0.637
84 X= 124.385 Y=-3.650 Z=-0.661
85 X= 129.385 Y=-3.650 Z=-0.685
86 X= 134.385 Y=-3.650 Z=-0.708
87 X= 138.770 Y=-3.650 Z=-0.729
88 X= 0.000 Y=0.000 Z=-1.100
89 X= 0.000 Y=0.950 Z=-1.100
90 X= 0.000 Y=-0.950 Z=-1.100
91 X= 39.385 Y=0.000 Z=-1.985
92 X= 39.385 Y=0.950 Z=-1.386
93 X= 39.385 Y=-0.950 Z=-1.386
94 X= 39.385 Y=0.000 Z=-1.670
95 X= 39.385 Y=0.950 Z=-1.670
96 X= 39.385 Y=-0.950 Z=-1.670
97 X= 138.770 Y=0.000 Z=-1.756
98 X= 138.770 Y=0.950 Z=-1.756
99 X= 138.770 Y=-0.950 Z=-1.756
100 X= 0.000 Y=-7.300 Z=-1.246
101 X= 0.000 Y=-6.350 Z=-1.246
102 X= 0.000 Y=-8.250 Z=-1.246
103 X= 39.385 Y=-7.300 Z=-1.532
104 X= 39.385 Y=-6.350 Z=-1.532
105 X= 39.385 Y=-8.250 Z=-1.532
106 X= 99.385 Y=-7.300 Z=-1.816
107 X= 99.385 Y=-6.350 Z=-1.816
108 X= 99.385 Y=-8.250 Z=-1.816
109 X= 138.770 Y=-7.300 Z=-1.902
110 X= 138.770 Y=-6.350 Z=-1.902
111 X= 138.770 Y=-8.250 Z=-1.902

LOCAL

ADD= 89 ANG=0.000
ADD= 90 ANG=0.000
ADD= 92 ANG=0.000
ADD= 93 ANG=0.000
ADD= 95 ANG=0.000
ADD= 96 ANG=0.000
ADD= 98 ANG=0.000
ADD= 99 ANG=0.000
ADD= 101 ANG=7.807
ADD= 102 ANG=10.501
ADD= 104 ANG=0.000
ADD= 105 ANG=0.000
ADD= 107 ANG=-5.143
ADD= 108 ANG=-6.937
ADD= 110 ANG=-3.110
ADD= 111 ANG=-4.201

RESTRAINT

ADD= 89 DOF= U2, U3,
ADD= 90 DOF= U2, U3,
ADD= 92 DOF= U1, U2, U3,
ADD= 93 DOF= U1, U2, U3,
ADD= 95 DOF= U2, U3,
ADD= 96 DOF= U2, U3,
ADD= 98 DOF= U2, U3,
ADD= 99 DOF= U2, U3,
ADD= 101 DOF= U3,
ADD= 102 DOF= U3,
ADD= 104 DOF= U1, U3,
ADD= 105 DOF= U1, U3,

ADD= 107 DOF= U3,
ADD= 108 DOF= U3,
ADD= 110 DOF= U3,
ADD= 111 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
Name=12
E=2.05e+008

FRAME SECTION

Name= 1 Mat= 1 A=0.11312 I=0.09891813, 0.10612892 J=0.13038271 : GIRDER
Name= 2 Mat= 2 A=0.11712 I=0.11985275, 0.11242905 J=0.14874639 : GIRDER
Name= 3 Mat= 3 A=0.12252 I=0.12603190, 0.11570955 J=0.15544685 : GIRDER
Name= 4 Mat= 4 A=0.12252 I=0.12603752, 0.11798735 J=0.15544685 : GIRDER
Name= 5 Mat= 5 A=0.17112 I=0.19965368, 0.14523405 J=0.20079404 : GIRDER
Name= 6 Mat= 6 A=0.22932 I=0.27667004, 0.19002371 J=0.25752263 : GIRDER
Name= 7 Mat= 7 A=0.13296 I=0.14218180, 0.12126793 J=0.16276679 : GIRDER
Name= 8 Mat= 8 A=0.12792 I=0.13571374, 0.11686005 J=0.16276679 : GIRDER
Name= 9 Mat= 9 A=0.13332 I=0.14386995, 0.12227055 J=0.16845263 : GIRDER
Name= 10 Mat= 10 A=0.02280 I=0.00529551, 0.00005419 J=0.00000109 : CROSSBEAM
Name= 11 Mat= 11 A=0.01920 I=0.00284355, 0.00005414 J=0.00000092 : STRINGER
Name= 12 Mat= 12 A=10.00000 I=10.00000000, 10.00000000 J=10.00000000 : SHOE
Name= 13 Type=Nonpr Sec= 1, 2 Elvar=2.1
Name= 14 Type=Nonpr Sec= 2, 1
Name= 15 Type=Nonpr Sec= 2, 3
Name= 16 Type=Nonpr Sec= 3, 2
Name= 17 Type=Nonpr Sec= 3, 4
Name= 18 Type=Nonpr Sec= 4, 3
Name= 19 Type=Nonpr Sec= 4, 5
Name= 20 Type=Nonpr Sec= 5, 4
Name= 21 Type=Nonpr Sec= 5, 6
Name= 22 Type=Nonpr Sec= 5, 7
Name= 23 Type=Nonpr Sec= 6, 5
Name= 24 Type=Nonpr Sec= 7, 5
Name= 25 Type=Nonpr Sec= 7, 9
Name= 26 Type=Nonpr Sec= 8, 7
Name= 27 Type=Nonpr Sec= 8, 9
Name= 28 Type=Nonpr Sec= 9, 8

FRAME

1 J= 1, 2 Sec=13 Local=12 Rdir=Z,X NSEG=4
2 J= 2, 3 Sec=15
3 J= 3, 4 Sec=3
4 J= 4, 5 Sec=3
5 J= 5, 6 Sec=3
6 J= 6, 7 Sec=17
7 J= 7, 8 Sec=19
8 J= 8, 9 Sec=21
9 J= 9, 10 Sec=23
10 J= 10, 11 Sec=22
11 J= 11, 12 Sec=25
12 J= 12, 13 Sec=27
13 J= 13, 14 Sec=9
14 J= 14, 15 Sec=9

15 J= 15, 16 Sec=9
16 J= 16, 17 Sec=9
17 J= 17, 18 Sec=28
18 J= 18, 19 Sec=26
19 J= 19, 20 Sec=24
20 J= 20, 21 Sec=21
21 J= 21, 22 Sec=23
22 J= 22, 23 Sec=20
23 J= 23, 24 Sec=18
24 J= 24, 25 Sec=3
25 J= 25, 26 Sec=3
26 J= 26, 27 Sec=3
27 J= 27, 28 Sec=16
28 J= 28, 29 Sec=14
29 J= 30, 31 Sec=13
30 J= 31, 32 Sec=15
31 J= 32, 33 Sec=3
32 J= 33, 34 Sec=3
33 J= 34, 35 Sec=3
34 J= 35, 36 Sec=17
35 J= 36, 37 Sec=19
36 J= 37, 38 Sec=21
37 J= 38, 39 Sec=23
38 J= 39, 40 Sec=22
39 J= 40, 41 Sec=25
40 J= 41, 42 Sec=27
41 J= 42, 43 Sec=9
42 J= 43, 44 Sec=9
43 J= 44, 45 Sec=9
44 J= 45, 46 Sec=9
45 J= 46, 47 Sec=28
46 J= 47, 48 Sec=26
47 J= 48, 49 Sec=24
48 J= 49, 50 Sec=21
49 J= 50, 51 Sec=23
50 J= 51, 52 Sec=20
51 J= 52, 53 Sec=18
52 J= 53, 54 Sec=3
53 J= 54, 55 Sec=3
54 J= 55, 56 Sec=3
55 J= 56, 57 Sec=16
56 J= 57, 58 Sec=14
57 J= 1, 59 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
58 J= 59, 30 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
59 J= 2, 60 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
60 J= 60, 31 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
61 J= 3, 61 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
62 J= 61, 32 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
63 J= 4, 62 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
64 J= 62, 33 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
65 J= 5, 63 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
66 J= 63, 34 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
67 J= 6, 64 Sec=10 IOFF=1.250 JOFF=1.250 RIGID=1.0
68 J= 64, 35 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
69 J= 7, 65 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
70 J= 65, 36 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
71 J= 8, 66 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
72 J= 66, 37 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
73 J= 9, 67 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
74 J= 67, 38 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
75 J= 10, 68 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
76 J= 68, 39 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
77 J= 11, 69 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
78 J= 69, 40 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
79 J= 12, 70 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
80 J= 70, 41 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
81 J= 13, 71 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
82 J= 71, 42 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
83 J= 14, 72 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
84 J= 72, 43 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
85 J= 15, 73 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
86 J= 73, 44 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
87 J= 16, 74 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
88 J= 74, 45 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0
89 J= 17, 75 Sec=10 IOFF=1.250 JOFF=0.000 RIGID=1.0
90 J= 75, 46 Sec=10 IOFF=0.000 JOFF=1.250 RIGID=1.0

- 5 -

```
Name=CONC : SLAB SELF-WEIGHT LOAD
Type=Distributed Span
Add= 1 RD=0.000, 0.445 Uzp=-62.862, -62.862 R1=-2.177, -2.177
Add= 1 RD=0.445, 1.000 Uzp=-37.560, -37.560 R1=-2.959, -2.959
Add= 2 RD=0.000, 1.000 Uzp=-37.560, -37.560 R1=-2.959, -2.959
```

[illegible]

- 6 -

- 8 -

Add=133 RD=0.000, 1.000 Uzp=-15.574, -15.574
Add=134 RD=0.000, 1.000 Uzp=-15.574, -15.574
Add=135 RD=0.000, 1.000 Uzp=-15.574, -15.574
Add=136 RD=0.000, 1.000 Uzp=-15.574, -15.574
Add=137 RD=0.000, 1.000 Uzp=-15.574, -15.574
Add=138 RD=0.000, 1.000 Uzp=-15.574, -15.574
Add=139 RD=0.000, 1.000 Uzp=-15.574, -15.574
Add=140 RD=0.000, 1.000 Uzp=-15.574, -15.574
Add=141 RD=0.000, 1.000 Uzp=-15.574, -15.574
Add=142 RD=0.000, 0.555 Uzp=-15.574, -15.574
Add=142 RD=0.555, 1.000 Uzp=-31.767, -31.767

Name=CR-HUNCH ; CROSSBEAM HUNCH SELF-WEIGHT LOAD

Type=Distributed Span

Add= 59 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 60 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 61 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 62 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 63 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 64 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 65 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 66 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 67 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 68 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 69 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 70 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 71 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 72 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 73 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 74 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 75 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 76 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 77 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 78 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 79 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 80 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 81 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 82 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 83 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 84 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 85 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 86 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 87 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 88 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 89 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 90 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 91 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 92 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 93 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 94 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 95 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 96 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 97 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add= 98 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add= 99 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add=100 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add=101 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add=102 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add=103 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add=104 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add=105 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add=106 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add=107 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add=108 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add=109 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add=110 RD=0.055, 0.658 Uzp=-1.066, -1.066
Add=111 RD=0.342, 0.945 Uzp=-0.637, -0.637
Add=112 RD=0.055, 0.658 Uzp=-1.066, -1.066

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=>

- 9 -

- 10 -

2. 합성 부

< AFTER COMPOSITE SELF-WEIGHT LOAD >

SYSTEM
LENGTH=M FORCE=KN

JOINT

1 X= 0.000 Y=0.000 Z=0.000
2 X= 4.385 Y=0.000 Z=-0.021
3 X= 9.385 Y=0.000 Z=-0.044
4 X= 14.385 Y=0.000 Z=-0.068
5 X= 19.385 Y=0.000 Z=-0.092
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24 X= 114.385 Y=0.000 Z=-0.541
25 X= 119.385 Y=0.000 Z=-0.564
26 X= 124.385 Y=0.000 Z=-0.588
27 X= 129.385 Y=0.000 Z=-0.612
28 X= 134.385 Y=0.000 Z=-0.635
29 X= 138.770 Y=0.000 Z=-0.656
30 X= 0.000 Y=-7.300 Z=-0.146
31 X= 4.385 Y=-7.300 Z=-0.167
32 X= 9.385 Y=-7.300 Z=-0.190
33 X= 14.385 Y=-7.300 Z=-0.214
34 X= 19.385 Y=-7.300 Z=-0.238
35 X= 24.385 Y=-7.300 Z=-0.261
36 X= 29.385 Y=-7.300 Z=-0.285
37 X= 34.385 Y=-7.300 Z=-0.309
38 X= 39.385 Y=-7.300 Z=-0.332
39 X= 44.385 Y=-7.300 Z=-0.356
40 X= 49.385 Y=-7.300 Z=-0.379
41 X= 54.385 Y=-7.300 Z=-0.403
42 X= 59.385 Y=-7.300 Z=-0.427
43 X= 64.385 Y=-7.300 Z=-0.450
44 X= 69.385 Y=-7.300 Z=-0.474
45 X= 74.385 Y=-7.300 Z=-0.498
46 X= 79.385 Y=-7.300 Z=-0.521
47 X= 84.385 Y=-7.300 Z=-0.545
48 X= 89.385 Y=-7.300 Z=-0.569
49 X= 94.385 Y=-7.300 Z=-0.592
50 X= 99.385 Y=-7.300 Z=-0.616
51 X= 104.385 Y=-7.300 Z=-0.639
52 X= 109.385 Y=-7.300 Z=-0.663
53 X= 114.385 Y=-7.300 Z=-0.687
54 X= 119.385 Y=-7.300 Z=-0.710
55 X= 124.385 Y=-7.300 Z=-0.734
56 X= 129.385 Y=-7.300 Z=-0.758
57 X= 134.385 Y=-7.300 Z=-0.781
58 X= 138.770 Y=-7.300 Z=-0.802
59 X= 0.000 Y=-3.650 Z=-0.073
60 X= 4.385 Y=-3.650 Z=-0.094
61 X= 9.385 Y=-3.650 Z=-0.117
62 X= 14.385 Y=-3.650 Z=-0.141
63 X= 19.385 Y=-3.650 Z=-0.165
64 X= 24.385 Y=-3.650 Z=-0.188
65 X= 29.385 Y=-3.650 Z=-0.212
66 X= 34.385 Y=-3.650 Z=-0.236
67 X= 39.385 Y=-3.650 Z=-0.259
68 X= 44.385 Y=-3.650 Z=-0.283
69 X= 49.385 Y=-3.650 Z=-0.306

70 X= 54.385 Y=-3.650 Z=-0.330
71 X= 59.385 Y=-3.650 Z=-0.354
72 X= 64.385 Y=-3.650 Z=-0.377
73 X= 69.385 Y=-3.650 Z=-0.401
74 X= 74.385 Y=-3.650 Z=-0.425
75 X= 79.385 Y=-3.650 Z=-0.448
76 X= 84.385 Y=-3.650 Z=-0.472
77 X= 89.385 Y=-3.650 Z=-0.496
78 X= 94.385 Y=-3.650 Z=-0.519
79 X= 99.385 Y=-3.650 Z=-0.543
80 X= 104.385 Y=-3.650 Z=-0.566
81 X= 109.385 Y=-3.650 Z=-0.590
82 X= 114.385 Y=-3.650 Z=-0.614
83 X= 119.385 Y=-3.650 Z=-0.637
84 X= 124.385 Y=-3.650 Z=-0.661
85 X= 129.385 Y=-3.650 Z=-0.685
86 X= 134.385 Y=-3.650 Z=-0.708
87 X= 138.770 Y=-3.650 Z=-0.729
88 X= 0.000 Y=0.000 Z=-1.100
89 X= 0.000 Y=0.950 Z=-1.100
90 X= 0.000 Y=-0.950 Z=-1.100
91 X= 39.385 Y=0.000 Z=-1.386
92 X= 39.385 Y=-0.950 Z=-1.386
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94 X= 39.385 Y=0.000 Z=-1.670
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97 X= 138.770 Y=0.000 Z=-1.756
98 X= 138.770 Y=0.950 Z=-1.756
99 X= 138.770 Y=-0.950 Z=-1.756
100 X= 0.000 Y=-7.300 Z=-1.246
101 X= 0.000 Y=-6.350 Z=-1.246
102 X= 0.000 Y=-8.250 Z=-1.246
103 X= 39.385 Y=-7.300 Z=-1.532
104 X= 39.385 Y=-6.350 Z=-1.532
105 X= 39.385 Y=-8.250 Z=-1.532
106 X= 99.385 Y=-7.300 Z=-1.816
107 X= 99.385 Y=-6.350 Z=-1.816
108 X= 99.385 Y=-8.250 Z=-1.816
109 X= 138.770 Y=-7.300 Z=-1.902
110 X= 138.770 Y=-6.350 Z=-1.902
111 X= 138.770 Y=-8.250 Z=-1.902

LOCAL

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ADD= 90 ANG=0.000
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ADD= 93 ANG=0.000
ADD= 95 ANG=0.000
ADD= 96 ANG=0.000
ADD= 98 ANG=0.000
ADD= 99 ANG=0.000
ADD= 101 ANG=7.807
ADD= 102 ANG=10.501
ADD= 104 ANG=0.000
ADD= 105 ANG=0.000
ADD= 107 ANG=-5.143
ADD= 108 ANG=-6.937
ADD= 110 ANG=-3.110
ADD= 111 ANG=-4.201

RESTRAINT

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ADD= 90 DOF= U2, U3,
ADD= 92 DOF= U1, U2, U3,
ADD= 93 DOF= U1, U2, U3,
ADD= 95 DOF= U2, U3,
ADD= 96 DOF= U2, U3,
ADD= 98 DOF= U2, U3,
ADD= 99 DOF= U2, U3,
ADD= 101 DOF= U3,
ADD= 102 DOF= U3,
ADD= 104 DOF= U1, U3,
ADD= 105 DOF= U1, U3,
ADD= 107 DOF= U3,
ADD= 108 DOF= U3,

- 11 -

- 12 -

ADD= 110 DOF= U3,
ADD= 111 DOF= U3,

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Name=4
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Name=21
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Name= 2 Mat= 2 A=0.33032 I=0.25412546, 0.79311479 J=0.18750703 : GIRDER
Name= 3 Mat= 3 A=0.33572 I=0.27790167, 0.79725300 J=0.19807322 : GIRDER
Name= 4 Mat= 4 A=0.33572 I=0.29700601, 0.79953080 J=0.19807322 : GIRDER
Name= 5 Mat= 5 A=0.38432 I=0.38687531, 0.83412226 J=0.22735968 : GIRDER
Name= 6 Mat= 6 A=0.44252 I=0.50318438, 0.88422574 J=0.28440411 : GIRDER
Name= 7 Mat= 7 A=0.34616 I=0.29811686, 0.80439374 J=0.19880646 : GIRDER
Name= 8 Mat= 8 A=0.34112 I=0.27851824, 0.80136406 J=0.19880646 : GIRDER
Name= 9 Mat= 9 A=0.34552 I=0.30171134, 0.80544923 J=0.20718870 : GIRDER
Name= 10 Mat= 10 A=0.32773 I=0.21210484, 0.79740645 J=0.16628157 : GIRDER
Name= 11 Mat= 11 A=0.33173 I=0.25444337, 0.80432173 J=0.18750703 : GIRDER
Name= 12 Mat= 12 A=0.33713 I=0.27826615, 0.80840952 J=0.19807322 : GIRDER
Name= 13 Mat= 13 A=0.33713 I=0.29741921, 0.81068732 J=0.19807322 : GIRDER
Name= 14 Mat= 14 A=0.38573 I=0.38843392, 0.84418249 J=0.22735968 : GIRDER
Name= 15 Mat= 15 A=0.44393 I=0.50396090, 0.89465472 J=0.28440411 : GIRDER
Name= 16 Mat= 16 A=0.34757 I=0.29851545, 0.81545753 J=0.19880646 : GIRDER
Name= 17 Mat= 17 A=0.34253 I=0.27887515, 0.81247185 J=0.19880646 : GIRDER
Name= 18 Mat= 18 A=0.34793 I=0.30211534, 0.81650992 J=0.20718870 : GIRDER
Name= 19 Mat= 19 A=0.02280 I=0.00529551, 0.00005419 J=0.00000109 : CROSSBEAM
Name= 20 Mat= 20 A=0.01920 I=0.00284355, 0.00005414 J=0.00000092 : STRINGER
Name= 21 Mat= 21 A=10.00000 I=10.00000000, 10.00000000 J=10.00000000 : SHOE
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Name= 23 Type=Nonpr Sec= 2, 3
Name= 24 Type=Nonpr Sec= 2, 3
Name= 25 Type=Nonpr Sec= 3, 2
Name= 26 Type=Nonpr Sec= 3, 4
Name= 27 Type=Nonpr Sec= 4, 3
Name= 28 Type=Nonpr Sec= 4, 5

Name= 29 Type=Nonpr Sec= 5, 4
Name= 30 Type=Nonpr Sec= 5, 6
Name= 31 Type=Nonpr Sec= 5, 7
Name= 32 Type=Nonpr Sec= 6, 5
Name= 33 Type=Nonpr Sec= 7, 5
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Name= 35 Type=Nonpr Sec= 8, 7
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Name= 37 Type=Nonpr Sec= 9, 8
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Name= 40 Type=Nonpr Sec= 11, 12
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Name= 44 Type=Nonpr Sec= 13, 14
Name= 45 Type=Nonpr Sec= 14, 13
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Name= 51 Type=Nonpr Sec= 17, 16
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Name= 53 Type=Nonpr Sec= 18, 17

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3 J= 3, 4 Sec= 3
4 J= 4, 5 Sec= 3
5 J= 5, 6 Sec= 3
6 J= 6, 7 Sec=26
7 J= 7, 8 Sec=28
8 J= 8, 9 Sec=30
9 J= 9, 10 Sec=32
10 J= 10, 11 Sec=31
11 J= 11, 12 Sec=34
12 J= 12, 13 Sec=36
13 J= 13, 14 Sec= 9
14 J= 14, 15 Sec= 9
15 J= 15, 16 Sec= 9
16 J= 16, 17 Sec= 9
17 J= 17, 18 Sec=37
18 J= 18, 19 Sec=35
19 J= 19, 20 Sec=33
20 J= 20, 21 Sec=30
21 J= 21, 22 Sec=32
22 J= 22, 23 Sec=29
23 J= 23, 24 Sec=27
24 J= 24, 25 Sec= 3
25 J= 25, 26 Sec= 3
26 J= 26, 27 Sec= 3
27 J= 27, 28 Sec=25
28 J= 28, 29 Sec=23
29 J= 30, 31 Sec=38
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31 J= 32, 33 Sec=12
32 J= 33, 34 Sec=12
33 J= 34, 35 Sec=12
34 J= 35, 36 Sec=42
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36 J= 37, 38 Sec=46
37 J= 38, 39 Sec=48
38 J= 39, 40 Sec=47
39 J= 40, 41 Sec=50
40 J= 41, 42 Sec=52
41 J= 42, 43 Sec=18
42 J= 43, 44 Sec=18
43 J= 44, 45 Sec=18
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45 J= 46, 47 Sec=53
46 J= 47, 48 Sec=51
47 J= 48, 49 Sec=49
48 J= 49, 50 Sec=46
49 J= 50, 51 Sec=48

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56 J= 57, 58 Sec=39
57 J= 1, 59 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
58 J= 59, 30 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
59 J= 2, 60 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
60 J= 60, 31 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
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64 J= 62, 33 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
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67 J= 6, 64 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
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69 J= 7, 65 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
70 J= 65, 36 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
71 J= 8, 66 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
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79 J= 12, 70 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
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164 J= 58, 109 Sec=21
165 J=110, 109 Sec=21
166 J=111, 109 Sec=21

LOAD

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

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Add=123 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=124 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=125 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=126 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=127 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=128 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=129 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=130 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=131 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=132 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=133 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=134 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=135 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=136 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=137 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=138 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=139 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=140 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=141 RD=0.000, 1.000 UZP=-7.177, -7.177
Add=142 RD=0.000, 1.000 UZP=-7.177, -7.177

COMBO
Name=AFTER Type=ADD :
LOAD=AFTER sf=1,000

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

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70 X= 54.385 Y=-3.650 Z=-0.330
71 X= 59.385 Y=-3.650 Z=-0.354
72 X= 64.385 Y=-3.650 Z=-0.377
73 X= 69.385 Y=-3.650 Z=-0.401
74 X= 74.385 Y=-3.650 Z=-0.425
75 X= 79.385 Y=-3.650 Z=-0.448
76 X= 84.385 Y=-3.650 Z=-0.472
77 X= 89.385 Y=-3.650 Z=-0.496
78 X= 94.385 Y=-3.650 Z=-0.519
79 X= 99.385 Y=-3.650 Z=-0.543
80 X= 104.385 Y=-3.650 Z=-0.566
81 X= 109.385 Y=-3.650 Z=-0.590
82 X= 114.385 Y=-3.650 Z=-0.614
83 X= 119.385 Y=-3.650 Z=-0.637
84 X= 124.385 Y=-3.650 Z=-0.661
85 X= 129.385 Y=-3.650 Z=-0.685
86 X= 134.385 Y=-3.650 Z=-0.708
87 X= 138.770 Y=-3.650 Z=-0.729
88 X= 0.000 Y=0.000 Z=-1.100
89 X= 0.000 Y=0.950 Z=-1.100
90 X= 0.000 Y=-0.950 Z=-1.100
91 X= 39.385 Y=0.000 Z=-1.386
92 X= 39.385 Y=0.950 Z=-1.386
93 X= 39.385 Y=-0.950 Z=-1.386
94 X= 99.385 Y=0.000 Z=-1.670
95 X= 99.385 Y=0.950 Z=-1.670
96 X= 99.385 Y=-0.950 Z=-1.670
97 X= 138.770 Y=0.000 Z=-1.756
98 X= 138.770 Y=0.950 Z=-1.756
99 X= 138.770 Y=-0.950 Z=-1.756
100 X= 0.000 Y=-7.300 Z=-1.246
101 X= 0.000 Y=-6.350 Z=-1.246
102 X= 0.000 Y=-8.250 Z=-1.246
103 X= 39.385 Y=-7.300 Z=-1.532
104 X= 39.385 Y=-6.350 Z=-1.532
105 X= 39.385 Y=-8.250 Z=-1.532
106 X= 99.385 Y=-7.300 Z=-1.816
107 X= 99.385 Y=-6.350 Z=-1.816
108 X= 99.385 Y=-8.250 Z=-1.816
109 X= 138.770 Y=-7.300 Z=-1.902
110 X= 138.770 Y=-6.350 Z=-1.902
111 X= 138.770 Y=-8.250 Z=-1.902

LOCAL
ADD= 89 ANG=0.000
ADD= 90 ANG=0.000
ADD= 92 ANG=0.000
ADD= 93 ANG=0.000
ADD= 95 ANG=0.000
ADD= 96 ANG=0.000
ADD= 98 ANG=0.000
ADD= 99 ANG=0.000
ADD= 101 ANG=-7.607
ADD= 102 ANG=-10.501
ADD= 104 ANG=0.000
ADD= 105 ANG=0.000
ADD= 107 ANG=-5.143
ADD= 108 ANG=-6.937
ADD= 110 ANG=-3.110
ADD= 111 ANG=-4.201

RESTRAINT
ADD= 89 DOF= U2, U3,
ADD= 90 DOF= U2, U3,
ADD= 92 DOF= U1, U2, U3,
ADD= 93 DOF= U1, U2, U3,
ADD= 95 DOF= U2, U3,
ADD= 96 DOF= U2, U3,
ADD= 98 DOF= U2, U3,
ADD= 99 DOF= U2, U3,
ADD= 101 DOF= U3,
ADD= 102 DOF= U3,
ADD= 104 DOF= U1, U3,
ADD= 105 DOF= U1, U3,
ADD= 107 DOF= U3,
ADD= 108 DOF= U3,

3 철하중 재하시

< MOVING LOAD >

SYSTEM
LENGTH=M FORCE=KN

JOINT
1 X= 0.000 Y=0.000 Z=0.000
2 X= 4.385 Y=0.000 Z=-0.021
3 X= 9.385 Y=0.000 Z=-0.044
4 X= 14.385 Y=0.000 Z=-0.068
5 X= 19.385 Y=0.000 Z=-0.092
6 X= 24.385 Y=0.000 Z=-0.115
7 X= 29.385 Y=0.000 Z=-0.139
8 X= 34.385 Y=0.000 Z=-0.163
9 X= 39.385 Y=0.000 Z=-0.186
10 X= 44.385 Y=0.000 Z=-0.210
11 X= 49.385 Y=0.000 Z=-0.233
12 X= 54.385 Y=0.000 Z=-0.257
13 X= 59.385 Y=0.000 Z=-0.281
14 X= 64.385 Y=0.000 Z=-0.304
15 X= 69.385 Y=0.000 Z=-0.328
16 X= 74.385 Y=0.000 Z=-0.352
17 X= 79.385 Y=0.000 Z=-0.375
18 X= 84.385 Y=0.000 Z=-0.399
19 X= 89.385 Y=0.000 Z=-0.423
20 X= 94.385 Y=0.000 Z=-0.446
21 X= 99.385 Y=0.000 Z=-0.470
22 X= 104.385 Y=0.000 Z=-0.493
23 X= 109.385 Y=0.000 Z=-0.517
24 X= 114.385 Y=0.000 Z=-0.541
25 X= 119.385 Y=0.000 Z=-0.564
26 X= 124.385 Y=0.000 Z=-0.588
27 X= 129.385 Y=0.000 Z=-0.612
28 X= 134.385 Y=0.000 Z=-0.635
29 X= 138.770 Y=0.000 Z=-0.656
30 X= 0.000 Y=-7.300 Z=-0.146
31 X= 4.385 Y=-7.300 Z=-0.167
32 X= 9.385 Y=-7.300 Z=-0.190
33 X= 14.385 Y=-7.300 Z=-0.214
34 X= 19.385 Y=-7.300 Z=-0.238
35 X= 24.385 Y=-7.300 Z=-0.261
36 X= 29.385 Y=-7.300 Z=-0.285
37 X= 34.385 Y=-7.300 Z=-0.309
38 X= 39.385 Y=-7.300 Z=-0.332
39 X= 44.385 Y=-7.300 Z=-0.356
40 X= 49.385 Y=-7.300 Z=-0.379
41 X= 54.385 Y=-7.300 Z=-0.403
42 X= 59.385 Y=-7.300 Z=-0.427
43 X= 64.385 Y=-7.300 Z=-0.450
44 X= 69.385 Y=-7.300 Z=-0.474
45 X= 74.385 Y=-7.300 Z=-0.498
46 X= 79.385 Y=-7.300 Z=-0.521
47 X= 84.385 Y=-7.300 Z=-0.545
48 X= 89.385 Y=-7.300 Z=-0.569
49 X= 94.385 Y=-7.300 Z=-0.592
50 X= 99.385 Y=-7.300 Z=-0.616
51 X= 104.385 Y=-7.300 Z=-0.639
52 X= 109.385 Y=-7.300 Z=-0.663
53 X= 114.385 Y=-7.300 Z=-0.687
54 X= 119.385 Y=-7.300 Z=-0.710
55 X= 124.385 Y=-7.300 Z=-0.734
56 X= 129.385 Y=-7.300 Z=-0.758
57 X= 134.385 Y=-7.300 Z=-0.781
58 X= 138.770 Y=-7.300 Z=-0.802
59 X= 0.000 Y=-3.650 Z=-0.073
60 X= 4.385 Y=-3.650 Z=-0.094
61 X= 9.385 Y=-3.650 Z=-0.117
62 X= 14.385 Y=-3.650 Z=-0.141
63 X= 19.385 Y=-3.650 Z=-0.165
64 X= 24.385 Y=-3.650 Z=-0.188
65 X= 29.385 Y=-3.650 Z=-0.212
66 X= 34.385 Y=-3.650 Z=-0.236
67 X= 39.385 Y=-3.650 Z=-0.259
68 X= 44.385 Y=-3.650 Z=-0.283
69 X= 49.385 Y=-3.650 Z=-0.306

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ADD= 110 DOF= U3,
ADD= 111 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
Name=12
E=2.05e+008
Name=13
E=2.05e+008
Name=14
E=2.05e+008
Name=15
E=2.05e+008
Name=16
E=2.05e+008
Name=17
E=2.05e+008
Name=18
E=2.05e+008
Name=19
E=2.05e+008
Name=20
E=2.05e+008
Name=21
E=2.05e+008

FRAME SECTION
Name= 1 Mat= 1 A=0.32632 I=0.21184255, 0.78616101 J=0.16628157 : GIRDER
Name= 2 Mat= 2 A=0.33032 I=0.25412546, 0.79311479 J=0.18750703 : GIRDER
Name= 3 Mat= 3 A=0.33572 I=0.27790167, 0.79725300 J=0.19807322 : GIRDER
Name= 4 Mat= 4 A=0.33572 I=0.29700601, 0.79953080 J=0.19807322 : GIRDER
Name= 5 Mat= 5 A=0.364138 I=0.36637531, 0.83411226 J=0.22735968 : GIRDER
Name= 6 Mat= 6 A=0.44252 I=0.50318438, 0.88422574 J=0.28440411 : GIRDER
Name= 7 Mat= 7 A=0.34616 I=0.29811686, 0.80439374 J=0.19880646 : GIRDER
Name= 8 Mat= 8 A=0.34112 I=0.27851824, 0.80136406 J=0.19880646 : GIRDER
Name= 9 Mat= 9 A=0.34652 I=0.30171134, 0.80544923 J=0.20718870 : GIRDER
Name= 10 Mat= 10 A=0.32773 I=0.21210484, 0.79740645 J=0.16628157 : GIRDER
Name= 11 Mat= 11 A=0.33173 I=0.25444337, 0.80432173 J=0.18750703 : GIRDER
Name= 12 Mat= 12 A=0.33713 I=0.27826615, 0.80840952 J=0.19807322 : GIRDER
Name= 13 Mat= 13 A=0.33713 I=0.29741921, 0.81068732 J=0.19807322 : GIRDER
Name= 14 Mat= 14 A=0.38573 I=0.38843892, 0.84418249 J=0.22735968 : GIRDER
Name= 15 Mat= 15 A=0.44393 I=0.50396090, 0.89465472 J=0.28440411 : GIRDER
Name= 16 Mat= 16 A=0.34757 I=0.29851545, 0.81545753 J=0.19880646 : GIRDER
Name= 17 Mat= 17 A=0.34253 I=0.27887515, 0.81247185 J=0.19880646 : GIRDER
Name= 18 Mat= 18 A=0.34703 I=0.30211534, 0.81655092 J=0.20718870 : GIRDER
Name= 19 Mat= 19 A=0.02280 I=0.00529551, 0.00005419 J=0.00000109 : CROSSBEAM
Name= 20 Mat= 20 A=0.01920 I=0.00284355, 0.00005414 J=0.00000092 : STRINGER
Name= 21 Mat= 21 A=10.00000 I=10.00000000, 10.00000000 J=10.00000000 : SHOE
Name= 22 Type=Nonpr Sec= 1, 2 Elvar=2.1
Name= 23 Type=Nonpr Sec= 2, 1
Name= 24 Type=Nonpr Sec= 2, 3
Name= 25 Type=Nonpr Sec= 3, 2
Name= 26 Type=Nonpr Sec= 3, 4
Name= 27 Type=Nonpr Sec= 4, 3
Name= 28 Type=Nonpr Sec= 4, 5

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Name= 29 Type=Nonpr Sec= 5, 4
Name= 30 Type=Nonpr Sec= 5, 6
Name= 31 Type=Nonpr Sec= 5, 7
Name= 32 Type=Nonpr Sec= 6, 5
Name= 33 Type=Nonpr Sec= 7, 5
Name= 34 Type=Nonpr Sec= 7, 8
Name= 35 Type=Nonpr Sec= 8, 7
Name= 36 Type=Nonpr Sec= 8, 9
Name= 37 Type=Nonpr Sec= 9, 8
Name= 38 Type=Nonpr Sec= 10, 11
Name= 39 Type=Nonpr Sec= 11, 10
Name= 40 Type=Nonpr Sec= 11, 12
Name= 41 Type=Nonpr Sec= 12, 11
Name= 42 Type=Nonpr Sec= 12, 13
Name= 43 Type=Nonpr Sec= 13, 12
Name= 44 Type=Nonpr Sec= 13, 14
Name= 45 Type=Nonpr Sec= 14, 13
Name= 46 Type=Nonpr Sec= 14, 15
Name= 47 Type=Nonpr Sec= 14, 16
Name= 48 Type=Nonpr Sec= 15, 14
Name= 49 Type=Nonpr Sec= 16, 14
Name= 50 Type=Nonpr Sec= 16, 17
Name= 51 Type=Nonpr Sec= 17, 16
Name= 52 Type=Nonpr Sec= 17, 18
Name= 53 Type=Nonpr Sec= 18, 17

FRAME
1 J= 1, 2 Sec=22 Local=12 Rdir=+Z, X NSEG=4
2 J= 2, 3 Sec=24
3 J= 3, 4 Sec= 3
4 J= 4, 5 Sec= 3
5 J= 5, 6 Sec= 3
6 J= 6, 7 Sec=26
7 J= 7, 8 Sec=28
8 J= 8, 9 Sec=30
9 J= 9, 10 Sec=32
10 J= 10, 11 Sec=31
11 J= 11, 12 Sec=34
12 J= 12, 13 Sec=36
13 J= 13, 14 Sec= 9
14 J= 14, 15 Sec= 9
15 J= 15, 16 Sec= 9
16 J= 16, 17 Sec= 9
17 J= 17, 18 Sec=37
18 J= 18, 19 Sec=38
19 J= 19, 20 Sec=33
20 J= 20, 21 Sec=30
21 J= 21, 22 Sec=32
22 J= 22, 23 Sec=29
23 J= 23, 24 Sec=27
24 J= 24, 25 Sec= 3
25 J= 25, 26 Sec= 3
26 J= 26, 27 Sec= 3
27 J= 27, 28 Sec=25
28 J= 28, 29 Sec=23
29 J= 30, 31 Sec=38
30 J= 31, 32 Sec=40
31 J= 32, 33 Sec=12
32 J= 33, 34 Sec=12
33 J= 34, 35 Sec=12
34 J= 35, 36 Sec=42
35 J= 36, 37 Sec=44
36 J= 37, 38 Sec=46
37 J= 38, 39 Sec=48
38 J= 39, 40 Sec=47
39 J= 40, 41 Sec=50
40 J= 41, 42 Sec=52
41 J= 42, 43 Sec=18
42 J= 43, 44 Sec=18
43 J= 44, 45 Sec=18
44 J= 45, 46 Sec=18
45 J= 46, 47 Sec=53
46 J= 47, 48 Sec=51
47 J= 48, 49 Sec=49
48 J= 49, 50 Sec=46
49 J= 50, 51 Sec=48

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50 J= 51, 52 Sec=45
51 J= 52, 53 Sec=43
52 J= 53, 54 Sec=12
53 J= 54, 55 Sec=12
54 J= 55, 56 Sec=12
55 J= 56, 57 Sec=41
56 J= 57, 58 Sec=39
57 J= 1, 59 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
58 J= 59, 30 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
59 J= 2, 60 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
60 J= 60, 31 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
61 J= 3, 61 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
62 J= 61, 32 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
63 J= 4, 62 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
64 J= 62, 33 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
65 J= 5, 63 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
66 J= 63, 34 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
67 J= 6, 64 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
68 J= 64, 35 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
69 J= 7, 65 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
70 J= 65, 36 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
71 J= 8, 66 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
72 J= 66, 37 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
73 J= 9, 67 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
74 J= 67, 38 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
75 J= 10, 68 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
76 J= 68, 39 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
77 J= 11, 69 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
78 J= 69, 40 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
79 J= 12, 70 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
80 J= 70, 41 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
81 J= 13, 71 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
82 J= 71, 42 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
83 J= 14, 72 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
84 J= 72, 43 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
85 J= 15, 73 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
86 J= 73, 44 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
87 J= 16, 74 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
88 J= 74, 45 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
89 J= 17, 75 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
90 J= 75, 46 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
91 J= 18, 76 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
92 J= 76, 47 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
93 J= 19, 77 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
94 J= 77, 48 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
95 J= 20, 78 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
96 J= 78, 49 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
97 J= 21, 79 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
98 J= 79, 50 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
99 J= 22, 80 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
100 J= 80, 51 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
101 J= 23, 81 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
102 J= 81, 52 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
103 J= 24, 82 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
104 J= 82, 53 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
105 J= 25, 83 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
106 J= 83, 54 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
107 J= 26, 84 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
108 J= 84, 55 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
109 J= 27, 85 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
110 J= 85, 56 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
111 J= 28, 86 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
112 J= 86, 57 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
113 J= 29, 87 Sec=19 IOFF=1.250 JOFF=0.000 RIGID=1.0
114 J= 87, 58 Sec=19 IOFF=0.000 JOFF=1.250 RIGID=1.0
115 J= 59, 60 Sec=20
116 J= 60, 61 Sec=20
117 J= 61, 62 Sec=20
118 J= 62, 63 Sec=20
119 J= 63, 64 Sec=20
120 J= 64, 65 Sec=20
121 J= 65, 66 Sec=20
122 J= 66, 67 Sec=20
123 J= 67, 68 Sec=20
124 J= 68, 69 Sec=20
125 J= 69, 70 Sec=20

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126 J= 70, 71 Sec=20
127 J= 71, 72 Sec=20
128 J= 72, 73 Sec=20
129 J= 73, 74 Sec=20
130 J= 74, 75 Sec=20
131 J= 75, 76 Sec=20
132 J= 76, 77 Sec=20
133 J= 77, 78 Sec=20
134 J= 78, 79 Sec=20
135 J= 79, 80 Sec=20
136 J= 80, 81 Sec=20
137 J= 81, 82 Sec=20
138 J= 82, 83 Sec=20
139 J= 83, 84 Sec=20
140 J= 84, 85 Sec=20
141 J= 85, 86 Sec=20
142 J= 86, 87 Sec=20
143 J= 1, 88 Sec=21
144 J= 89, 88 Sec=21
145 J= 90, 88 Sec=21
146 J= 9, 91 Sec=21
147 J= 92, 91 Sec=21
148 J= 93, 91 Sec=21
149 J= 21, 94 Sec=21
150 J= 95, 94 Sec=21
151 J= 96, 94 Sec=21
152 J= 29, 97 Sec=21
153 J= 98, 97 Sec=21
154 J= 99, 97 Sec=21
155 J= 30, 100 Sec=21
156 J=101, 100 Sec=21
157 J=102, 100 Sec=21
158 J= 38, 103 Sec=21
159 J=104, 103 Sec=21
160 J=105, 103 Sec=21
161 J= 50, 106 Sec=21
162 J=107, 106 Sec=21
163 J=108, 106 Sec=21
164 J= 58, 109 Sec=21
165 J=110, 109 Sec=21
166 J=111, 109 Sec=21

LANE
: Case = 1 ----- G1 Max DB 1선
Name=L1G1
Path= 1, 8, 1, Ecc=0.392
Path= 9, 20, 1, Ecc=0.392
Path= 21, 28, 1, Ecc=0.392
Name=L1G1S1
Path= 115, 122, 1, Ecc=0.000
Path= 123, 134, 1, Ecc=0.000
Path= 135, 142, 1, Ecc=0.000
Name=L1G2
Path= 29, 36, 1, Ecc=1.715
Path= 37, 48, 1, Ecc=1.715
Path= 49, 56, 1, Ecc=1.715
: Case = 2 ----- G1 Max DB 2선
Name=L2G1
Path= 1, 8, 1, Ecc=-0.027
Path= 9, 20, 1, Ecc=-0.027
Path= 21, 28, 1, Ecc=-0.027
Name=L2G1S1
Path= 115, 122, 1, Ecc=0.000
Path= 123, 134, 1, Ecc=0.000
Path= 135, 142, 1, Ecc=0.000
Name=L2G2
Path= 29, 36, 1, Ecc=1.715
Path= 37, 48, 1, Ecc=1.715
Path= 49, 56, 1, Ecc=1.715
: Case = 3 ----- G1 Max DB 3선
Name=L3G1
Path= 1, 8, 1, Ecc=0.029
Path= 9, 20, 1, Ecc=0.029
Path= 21, 28, 1, Ecc=0.029

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Name=L3G1S1
Path= 115, 122, 1, Ecc=0.000
Path= 123, 134, 1, Ecc=0.000
Path= 135, 142, 1, Ecc=0.000
Name=L3G2
Path= 29, 36, 1, Ecc=0.704
Path= 37, 48, 1, Ecc=0.704
Path= 49, 56, 1, Ecc=0.704
: Case = 4 ----- G2 Max DB 1선
Name=L4G1
Path= 1, 8, 1, Ecc=-1.715
Path= 9, 20, 1, Ecc=-1.715
Path= 21, 28, 1, Ecc=-1.715
Name=L4G1S1
Path= 115, 122, 1, Ecc=0.000
Path= 123, 134, 1, Ecc=0.000
Path= 135, 142, 1, Ecc=0.000
Name=L4G2
Path= 29, 36, 1, Ecc=-0.302
Path= 37, 48, 1, Ecc=-0.302
Path= 49, 56, 1, Ecc=-0.302
: Case = 5 ----- G2 Max DB 2선
Name=L5G1
Path= 1, 8, 1, Ecc=-1.704
Path= 9, 20, 1, Ecc=-1.704
Path= 21, 28, 1, Ecc=-1.704
Name=L5G1S1
Path= 115, 122, 1, Ecc=0.000
Path= 123, 134, 1, Ecc=0.000
Path= 135, 142, 1, Ecc=0.000
Name=L5G2
Path= 29, 36, 1, Ecc=0.072
Path= 37, 48, 1, Ecc=0.072
Path= 49, 56, 1, Ecc=0.072
: Case = 6 ----- G2 Max DB 3선
Name=L6G1
Path= 1, 8, 1, Ecc=-0.668
Path= 9, 20, 1, Ecc=-0.668
Path= 21, 28, 1, Ecc=-0.668
Name=L6G1S1
Path= 115, 122, 1, Ecc=0.000
Path= 123, 134, 1, Ecc=0.000
Path= 135, 142, 1, Ecc=0.000
Name=L6G2
Path= 29, 36, 1, Ecc=0.078
Path= 37, 48, 1, Ecc=0.078
Path= 49, 56, 1, Ecc=0.078
: Case = 7 ----- G1 Max DL 1선
Name=L7G1
Path= 1, 8, 1, Ecc=0.385
Path= 9, 20, 1, Ecc=0.385
Path= 21, 28, 1, Ecc=0.385
Name=L7G1S1
Path= 115, 122, 1, Ecc=0.000
Path= 123, 134, 1, Ecc=0.000
Path= 135, 142, 1, Ecc=0.000
Name=L7G2
Path= 29, 36, 1, Ecc=1.715
Path= 37, 48, 1, Ecc=1.715
Path= 49, 56, 1, Ecc=1.715
: Case = 8 ----- G1 Max DL 2선
Name=L8G1
Path= 1, 8, 1, Ecc=-0.023
Path= 9, 20, 1, Ecc=-0.023
Path= 21, 28, 1, Ecc=-0.023
Name=L8G1S1
Path= 115, 122, 1, Ecc=0.000
Path= 123, 134, 1, Ecc=0.000
Path= 135, 142, 1, Ecc=0.000
Name=L8G2
Path= 29, 36, 1, Ecc=1.503

- 24 -

Path= 37, 48, 1, Ecc=1.503
Path= 49, 56, 1, Ecc=1.503
: Case = 9 ----- G1 Max DL 1선
Name=L9G1
Path= 1, 8, 1, Ecc=-0.030
Path= 9, 20, 1, Ecc=-0.030
Path= 21, 28, 1, Ecc=-0.030
Name=L9G1S1
Path= 115, 122, 1, Ecc=0.000
Path= 123, 134, 1, Ecc=0.000
Path= 135, 142, 1, Ecc=0.000
Name=L9G2
Path= 29, 36, 1, Ecc=0.718
Path= 37, 48, 1, Ecc=0.718
Path= 49, 56, 1, Ecc=0.718
: Case = 10 ----- G2 Max DL 1선
Name=L10G1
Path= 1, 8, 1, Ecc=-1.715
Path= 9, 20, 1, Ecc=-1.715
Path= 21, 28, 1, Ecc=-1.715
Name=L10G1S1
Path= 115, 122, 1, Ecc=0.000
Path= 123, 134, 1, Ecc=0.000
Path= 135, 142, 1, Ecc=0.000
Name=L10G2
Path= 29, 36, 1, Ecc=-0.294
Path= 37, 48, 1, Ecc=-0.294
Path= 49, 56, 1, Ecc=-0.294
: Case = 11 ----- G2 Max DL 2선
Name=L11G1
Path= 1, 8, 1, Ecc=-1.603
Path= 9, 20, 1, Ecc=-1.603
Path= 21, 28, 1, Ecc=-1.603
Name=L11G1S1
Path= 115, 122, 1, Ecc=0.000
Path= 123, 134, 1, Ecc=0.000
Path= 135, 142, 1, Ecc=0.000
Name=L11G2
Path= 29, 36, 1, Ecc=0.067
Path= 37, 48, 1, Ecc=0.067
Path= 49, 56, 1, Ecc=0.067
: Case = 12 ----- G2 Max DL 3선
Name=L12G1
Path= 1, 8, 1, Ecc=-0.678
Path= 9, 20, 1, Ecc=-0.678
Path= 21, 28, 1, Ecc=-0.678
Name=L12G1S1
Path= 115, 122, 1, Ecc=0.000
Path= 123, 134, 1, Ecc=0.000
Path= 135, 142, 1, Ecc=0.000
Name=L12G2
Path= 29, 36, 1, Ecc=0.077
Path= 37, 48, 1, Ecc=0.077
Path= 49, 56, 1, Ecc=0.077
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 PMX=52,000
Vehicle Class
Name=1
Vehi=1
Name=2
Vehi=2
Bridge Response

Name=G2XDB2 Type=ENVE : G2 Max DB 2선
MOVE=5 sf=1.189
Name=G2XDB3 Type=ENVE : G2 Max DB 3선
MOVE=6 sf=1.189
Name=G1XDL1 Type=ENVE : G1 Max DL 1선
MOVE=7 sf=1.189
Name=G1XDL2 Type=ENVE : G1 Max DL 2선
MOVE=8 sf=1.189
Name=G1XDL3 Type=ENVE : G1 Max DL 3선
MOVE=9 sf=1.189
Name=G2XDL1 Type=ENVE : G2 Max DL 1선
MOVE=10 sf=1.189
Name=G2XDL2 Type=ENVE : G2 Max DL 2선
MOVE=11 sf=1.189
Name=G2XDL3 Type=ENVE : G2 Max DL 3선
MOVE=12 sf=1.189
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=>

Elem=Frame
Add=>
Elem=Joint Type=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=2.103
Lane= L1G2 Class=1 Lmin= 1 Lmax= 1 Sf=0.028
Name= 2 Rf=1.000 : G1 Max DB 2선
Lane= L2G1 Class=1 Lmin= 1 Lmax= 1 Sf=2.695
Lane= L2G1S1 Class=1 Lmin= 1 Lmax= 1 Sf=1.272
Lane= L2G2 Class=1 Lmin= 1 Lmax= 1 Sf=0.033
Name= 3 Rf=0.900 : G1 Max DB 3선
Lane= L3G1 Class=1 Lmin= 1 Lmax= 1 Sf=2.698
Lane= L3G1S1 Class=1 Lmin= 1 Lmax= 1 Sf=1.259
Lane= L3G2 Class=1 Lmin= 1 Lmax= 1 Sf=2.043
Name= 4 Rf=1.000 : G2 Max DB 1선
Lane= L4G1 Class=1 Lmin= 1 Lmax= 1 Sf=0.029
Lane= L4G2 Class=1 Lmin= 1 Lmax= 1 Sf=2.112
Name= 5 Rf=1.000 : G2 Max DB 2선
Lane= L5G1 Class=1 Lmin= 1 Lmax= 1 Sf=0.058
Lane= L5G1S1 Class=1 Lmin= 1 Lmax= 1 Sf=1.289
Lane= L5G2 Class=1 Lmin= 1 Lmax= 1 Sf=2.653
Name= 6 Rf=0.900 : G2 Max DB 3선
Lane= L6G1 Class=1 Lmin= 1 Lmax= 1 Sf=2.092
Lane= L6G1S1 Class=1 Lmin= 1 Lmax= 1 Sf=1.246
Lane= L6G2 Class=1 Lmin= 1 Lmax= 1 Sf=2.662
Name= 7 Rf=1.000 : G1 Max DL 1선
Lane= L7G1 Class=2 Lmin= 1 Lmax= 1 Sf=3.161
Lane= L7G2 Class=2 Lmin= 1 Lmax= 1 Sf=0.041
Name= 8 Rf=1.000 : G1 Max DL 2선
Lane= L8G1 Class=2 Lmin= 1 Lmax= 1 Sf=0.023
Lane= L8G1S1 Class=2 Lmin= 1 Lmax= 1 Sf=1.958
Lane= L8G2 Class=2 Lmin= 1 Lmax= 1 Sf=0.019
Name= 9 Rf=0.900 : G1 Max DL 3선
Lane= L9G1 Class=2 Lmin= 1 Lmax= 1 Sf=0.038
Lane= L9G1S1 Class=2 Lmin= 1 Lmax= 1 Sf=1.893
Lane= L9G2 Class=2 Lmin= 1 Lmax= 1 Sf=3.068
Name= 10 Rf=1.000 : G2 Max DL 1선
Lane= L10G1 Class=2 Lmin= 1 Lmax= 1 Sf=0.045
Lane= L10G2 Class=2 Lmin= 1 Lmax= 1 Sf=3.175
Name= 11 Rf=1.000 : G2 Max DL 2선
Lane= L11G1 Class=2 Lmin= 1 Lmax= 1 Sf=0.053
Lane= L11G1S1 Class=2 Lmin= 1 Lmax= 1 Sf=1.930
Lane= L11G2 Class=2 Lmin= 1 Lmax= 1 Sf=3.957
Name= 12 Rf=0.900 : G2 Max DL 3선
Lane= L12G1 Class=2 Lmin= 1 Lmax= 1 Sf=3.135
Lane= L12G1S1 Class=2 Lmin= 1 Lmax= 1 Sf=1.884
Lane= L12G2 Class=2 Lmin= 1 Lmax= 1 Sf=3.960
COMBO
Name=G1XDB1 Type=ENVE : G1 Max DB 1선
MOVE=1 sf=1.189
Name=G1XDB2 Type=ENVE : G1 Max DB 2선
MOVE=2 sf=1.189
Name=G1XDB3 Type=ENVE : G1 Max DB 3선
MOVE=3 sf=1.189
Name=G2XDB1 Type=ENVE : G2 Max DB 1선
MOVE=4 sf=1.189

4) 부등침하 < UNEQUAL SETTLEMENT >

SYSTEM
LENGTH=M FORCE=KN
JOINT
1 X= 0.000 Y=0.000 Z=0.000
2 X= 4.385 Y=0.000 Z=-0.021
3 X= 9.385 Y=0.000 Z=-0.044
4 X= 14.385 Y=0.000 Z=-0.068
5 X= 19.385 Y=0.000 Z=-0.092
6 X= 24.385 Y=0.000 Z=-0.115
7 X= 29.385 Y=0.000 Z=-0.139
8 X= 34.385 Y=0.000 Z=-0.163
9 X= 39.385 Y=0.000 Z=-0.186
10 X= 44.385 Y=0.000 Z=-0.210
11 X= 49.385 Y=0.000 Z=-0.233
12 X= 54.385 Y=0.000 Z=-0.257
13 X= 59.385 Y=0.000 Z=-0.281
14 X= 64.385 Y=0.000 Z=-0.304
15 X= 69.385 Y=0.000 Z=-0.328
16 X= 74.385 Y=0.000 Z=-0.352
17 X= 79.385 Y=0.000 Z=-0.375
18 X= 84.385 Y=0.000 Z=-0.399
19 X= 89.385 Y=0.000 Z=-0.423
20 X= 94.385 Y=0.000 Z=-0.446
21 X= 99.385 Y=0.000 Z=-0.470
22 X= 104.385 Y=0.000 Z=-0.493
23 X= 109.385 Y=0.000 Z=-0.517
24 X= 114.385 Y=0.000 Z=-0.541
25 X= 119.385 Y=0.000 Z=-0.564
26 X= 124.385 Y=0.000 Z=-0.588
27 X= 129.385 Y=0.000 Z=-0.612
28 X= 134.385 Y=0.000 Z=-0.635
29 X= 139.385 Y=0.000 Z=-0.656
30 X= 0.000 Y=-7.300 Z=-0.146
31 X= 4.385 Y=-7.300 Z=-0.167
32 X= 9.385 Y=-7.300 Z=-0.190
33 X= 14.385 Y=-7.300 Z=-0.214
34 X= 19.385 Y=-7.300 Z=-0.238
35 X= 24.385 Y=-7.300 Z=-0.261
36 X= 29.385 Y=-7.300 Z=-0.285
37 X= 34.385 Y=-7.300 Z=-0.309
38 X= 39.385 Y=-7.300 Z=-0.332
39 X= 44.385 Y=-7.300 Z=-0.356
40 X= 49.385 Y=-7.300 Z=-0.379
41 X= 54.385 Y=-7.300 Z=-0.403
42 X= 59.385 Y=-7.300 Z=-0.427
43 X= 64.385 Y=-7.300 Z=-0.450
44 X= 69.385 Y=-7.300 Z=-0.474
45 X= 74.385 Y=-7.300 Z=-0.498
46 X= 79.385 Y=-7.300 Z=-0.521
47 X= 84.385 Y=-7.300 Z=-0.545
48 X= 89.385 Y=-7.300 Z=-0.569
49 X= 94.385 Y=-7.300 Z=-0.592
50 X= 99.385 Y=-7.300 Z=-0.616
51 X= 104.385 Y=-7.300 Z=-0.639
52 X= 109.385 Y=-7.300 Z=-0.663
53 X= 114.385 Y=-7.300 Z=-0.687
54 X= 119.385 Y=-7.300 Z=-0.710
55 X= 124.385 Y=-7.300 Z=-0.734
56 X= 129.385 Y=-7.300 Z=-0.758
57 X= 134.385 Y=-7.300 Z=-0.781
58 X= 139.385 Y=-7.300 Z=-0.802
59 X= 0.000 Y=-3.650 Z=-0.073
60 X= 4.385 Y=-3.650 Z=-0.094
61 X= 9.385 Y=-3.650 Z=-0.117
62 X= 14.385 Y=-3.650 Z=-0.141
63 X= 19.385 Y=-3.650 Z=-0.165
64 X= 24.385 Y=-3.650 Z=-0.188
65 X= 29.385 Y=-3.650 Z=-0.212
66 X= 34.385 Y=-3.650 Z=-0.236
67 X= 39.385 Y=-3.650 Z=-0.259
68 X= 44.385 Y=-3.650 Z=-0.283
69 X= 49.385 Y=-3.650 Z=-0.306

70 X= 54.385 Y=-3.650 Z=-0.330
71 X= 59.385 Y=-3.650 Z=-0.354
72 X= 64.385 Y=-3.650 Z=-0.377
73 X= 69.385 Y=-3.650 Z=-0.401
74 X= 74.385 Y=-3.650 Z=-0.425
75 X= 79.385 Y=-3.650 Z=-0.448
76 X= 84.385 Y=-3.650 Z=-0.472
77 X= 89.385 Y=-3.650 Z=-0.496
78 X= 94.385 Y=-3.650 Z=-0.519
79 X= 99.385 Y=-3.650 Z=-0.543
80 X= 104.385 Y=-3.650 Z=-0.566
81 X= 109.385 Y=-3.650 Z=-0.590
82 X= 114.385 Y=-3.650 Z=-0.614
83 X= 119.385 Y=-3.650 Z=-0.637
84 X= 124.385 Y=-3.650 Z=-0.661
85 X= 129.385 Y=-3.650 Z=-0.685
86 X= 134.385 Y=-3.650 Z=-0.708
87 X= 138.770 Y=-3.650 Z=-0.729
88 X= 0.000 Y=0.000 Z=-1.100
89 X= 0.000 Y=0.950 Z=-1.100
90 X= 0.000 Y=-0.950 Z=-1.100
91 X= 39.385 Y=0.000 Z=-1.386
92 X= 39.385 Y=0.950 Z=-1.386
93 X= 39.385 Y=-0.950 Z=-1.386
94 X= 99.385 Y=0.000 Z=-1.670
95 X= 99.385 Y=0.950 Z=-1.670
96 X= 99.385 Y=-0.950 Z=-1.670
97 X= 138.770 Y=0.000 Z=-1.756
98 X= 138.770 Y=0.950 Z=-1.756
99 X= 138.770 Y=-0.950 Z=-1.756
100 X= 0.000 Y=-7.300 Z=-1.246
101 X= 0.000 Y=-6.350 Z=-1.246
102 X= 0.000 Y=-8.250 Z=-1.246
103 X= 39.385 Y=-7.300 Z=-1.532
104 X= 39.385 Y=-6.350 Z=-1.532
105 X= 39.385 Y=-8.250 Z=-1.532
106 X= 99.385 Y=-7.300 Z=-1.816
107 X= 99.385 Y=-6.350 Z=-1.816
108 X= 99.385 Y=-8.250 Z=-1.816
109 X= 138.770 Y=-7.300 Z=-1.902
110 X= 138.770 Y=-6.350 Z=-1.902
111 X= 138.770 Y=-8.250 Z=-1.902

LOCAL
ADD= 89 ANG=0.000
ADD= 90 ANG=0.000
ADD= 92 ANG=0.000
ADD= 93 ANG=0.000
ADD= 95 ANG=0.000
ADD= 96 ANG=0.000
ADD= 98 ANG=0.000
ADD= 99 ANG=0.000
ADD= 101 ANG=7.907 Z=-1.246
ADD= 102 ANG=10.501
ADD= 104 ANG=0.000
ADD= 107 ANG=-5.143
ADD= 108 ANG=-6.937
ADD= 110 ANG=-3.110
ADD= 111 ANG=-4.201

RESTRAINT
ADD= 89 DOF= U2, U3,
ADD= 90 DOF= U2, U3,
ADD= 92 DOF= U1, U2, U3,
ADD= 93 DOF= U1, U2, U3,
ADD= 95 DOF= U2, U3,
ADD= 96 DOF= U2, U3,
ADD= 98 DOF= U2, U3,
ADD= 99 DOF= U2, U3,
ADD= 101 DOF= U3,
ADD= 102 DOF= U3,
ADD= 104 DOF= U1, U3,
ADD= 105 DOF= U1, U3,
ADD= 107 DOF= U3,
ADD= 108 DOF= U3,

Name= 29 Type=Nonpr Sec= 5, 4
Name= 30 Type=Nonpr Sec= 5, 6
Name= 31 Type=Nonpr Sec= 5, 7
Name= 32 Type=Nonpr Sec= 6, 5
Name= 33 Type=Nonpr Sec= 7, 5
Name= 34 Type=Nonpr Sec= 7, 8
Name= 35 Type=Nonpr Sec= 8, 7
Name= 36 Type=Nonpr Sec= 8, 9
Name= 37 Type=Nonpr Sec= 9, 8
Name= 38 Type=Nonpr Sec= 10, 11
Name= 39 Type=Nonpr Sec= 11, 10
Name= 40 Type=Nonpr Sec= 11, 12
Name= 41 Type=Nonpr Sec= 12, 11
Name= 42 Type=Nonpr Sec= 12, 13
Name= 43 Type=Nonpr Sec= 13, 12
Name= 44 Type=Nonpr Sec= 13, 14
Name= 45 Type=Nonpr Sec= 14, 13
Name= 46 Type=Nonpr Sec= 14, 15
Name= 47 Type=Nonpr Sec= 14, 16
Name= 48 Type=Nonpr Sec= 15, 14
Name= 49 Type=Nonpr Sec= 16, 14
Name= 50 Type=Nonpr Sec= 16, 17
Name= 51 Type=Nonpr Sec= 17, 16
Name= 52 Type=Nonpr Sec= 17, 18
Name= 53 Type=Nonpr Sec= 18, 17

FRAME
1 J= 1, 2 Sec=22 Local=12 Rdir=+Z, X NSEG=4
2 J= 2, 3 Sec=24
3 J= 3, 4 Sec=3
4 J= 4, 5 Sec=3
5 J= 5, 6 Sec=3
6 J= 6, 7 Sec=26
7 J= 7, 8 Sec=28
8 J= 8, 9 Sec=30
9 J= 9, 10 Sec=32
10 J= 10, 11 Sec=31
11 J= 11, 12 Sec=34
12 J= 12, 13 Sec=36
13 J= 13, 14 Sec=9
14 J= 14, 15 Sec=9
15 J= 15, 16 Sec=9
16 J= 16, 17 Sec=9
17 J= 17, 18 Sec=37
18 J= 18, 19 Sec=38
19 J= 19, 20 Sec=33
20 J= 20, 21 Sec=30
21 J= 21, 22 Sec=32
22 J= 22, 23 Sec=29
23 J= 23, 24 Sec=27
24 J= 24, 25 Sec=3
25 J= 25, 26 Sec=3
26 J= 26, 27 Sec=3
27 J= 27, 28 Sec=25
28 J= 28, 29 Sec=23
29 J= 30, 31 Sec=38
30 J= 31, 32 Sec=40
31 J= 32, 33 Sec=12
32 J= 33, 34 Sec=12
33 J= 34, 35 Sec=12
34 J= 35, 36 Sec=42
35 J= 36, 37 Sec=44
36 J= 37, 38 Sec=46
37 J= 38, 39 Sec=48
38 J= 39, 40 Sec=47
39 J= 40, 41 Sec=50
40 J= 41, 42 Sec=52
41 J= 42, 43 Sec=18
42 J= 43, 44 Sec=18
43 J= 44, 45 Sec=18
44 J= 45, 46 Sec=18
45 J= 46, 47 Sec=53
46 J= 47, 48 Sec=51
47 J= 48, 49 Sec=19
48 J= 49, 50 Sec=46
49 J= 50, 51 Sec=48

ADD= 110 DOF= U3,
ADD= 111 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

Name=12

E=2.05e+008

Name=13

E=2.05e+008

Name=14

E=2.05e+008

Name=15

E=2.05e+008

Name=16

E=2.05e+008

Name=17

E=2.05e+008

Name=18

E=2.05e+008

Name=19

E=2.05e+008

Name=20

E=2.05e+008

Name=21

E=2.05e+008

FRAME SECTION

Name= 1 Mat= 1 A=0.32632 I=0.21184255, 0.78616101 J=0.16628157 : GIRDER
Name= 2 Mat= 2 A=0.33032 I=0.25412546, 0.79311479 J=0.18750703 : GIRDER
Name= 3 Mat= 3 A=0.33572 I=0.27790167, 0.79725300 J=0.19807322 : GIRDER
Name= 4 Mat= 4 A=0.33572 I=0.29700601, 0.79953080 J=0.19807322 : GIRDER
Name= 5 Mat= 5 A=0.36132 I=0.36657531, 0.83412226 J=0.22735968 : GIRDER
Name= 6 Mat= 6 A=0.44252 I=0.50318438, 0.88422974 J=0.28440411 : GIRDER
Name= 7 Mat= 7 A=0.34616 I=0.29811686, 0.80439374 J=0.19880646 : GIRDER
Name= 8 Mat= 8 A=0.34112 I=0.27851824, 0.80136406 J=0.19880646 : GIRDER
Name= 9 Mat= 9 A=0.34552 I=0.30711134, 0.80544923 J=0.20718870 : GIRDER
Name= 10 Mat= 10 A=0.32773 I=0.21210484, 0.79740645 J=0.16628157 : GIRDER
Name= 11 Mat= 11 A=0.33173 I=0.25444337, 0.80432173 J=0.18750703 : GIRDER
Name= 12 Mat= 12 A=0.33713 I=0.27826615, 0.80840952 J=0.19807322 : GIRDER
Name= 13 Mat= 13 A=0.33713 I=0.29741921, 0.81068732 J=0.19807322 : GIRDER
Name= 14 Mat= 14 A=0.39573 I=0.38943592, 0.84418349 J=0.22735968 : GIRDER
Name= 15 Mat= 15 A=0.44393 I=0.50396090, 0.89465472 J=0.28440411 : GIRDER
Name= 16 Mat= 16 A=0.34757 I=0.29851545, 0.81545753 J=0.19880646 : GIRDER
Name= 17 Mat= 17 A=0.34253 I=0.27887515, 0.81247185 J=0.19880646 : GIRDER
Name= 18 Mat= 18 A=0.34793 I=0.30211534, 0.81650992 J=0.20718870 : GIRDER
Name= 19 Mat= 19 A=0.02280 I=0.00529551, 0.00005419 J=0.00000109 : CROSSBEAM
Name= 20 Mat= 20 A=0.01920 I=0.00284355, 0.00005414 J=0.00000092 : STRINGER
Name= 21 Mat= 21 A=10.00000 I=10.00000000, 10.00000000 J=10.00000000 : SHOE
Name= 22 Type=Nonpr Sec= 1, 2 Elvar=2.1
Name= 23 Type=Nonpr Sec= 2, 1
Name= 24 Type=Nonpr Sec= 2, 3
Name= 25 Type=Nonpr Sec= 3, 2
Name= 26 Type=Nonpr Sec= 3, 4
Name= 27 Type=Nonpr Sec= 4, 3
Name= 28 Type=Nonpr Sec= 4, 5

50 J= 51, 52 Sec=45
51 J= 52, 53 Sec=43
52 J= 53, 54 Sec=12
53 J= 54, 55 Sec=12
54 J= 55, 56 Sec=12
55 J= 56, 57 Sec=41
56 J= 57, 58 Sec=39
57 J= 1, 59 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
58 J= 59, 30 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
59 J= 2, 60 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
60 J= 60, 31 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
61 J= 3, 61 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
62 J= 61, 32 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
63 J= 4, 62 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
64 J= 62, 33 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
65 J= 5, 63 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
66 J= 63, 34 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
67 J= 6, 64 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
68 J= 64, 35 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
69 J= 7, 65 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
70 J= 65, 36 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
71 J= 8, 66 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
72 J= 66, 37 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
73 J= 9, 67 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
74 J= 67, 38 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
75 J= 10, 68 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
76 J= 68, 39 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
77 J= 11, 69 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
78 J= 69, 40 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
79 J= 12, 70 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
80 J= 70, 41 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
81 J= 13, 71 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
82 J= 71, 42 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
83 J= 14, 72 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
84 J= 72, 43 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
85 J= 15, 73 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
86 J= 73, 44 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
87 J= 16, 74 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
88 J= 74, 45 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
89 J= 17, 75 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
90 J= 75, 46 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
91 J= 18, 76 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
92 J= 76, 47 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
93 J= 19, 77 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
94 J= 77, 48 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
95 J= 20, 78 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
96 J= 78, 49 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
97 J= 21, 79 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
98 J= 79, 50 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
99 J= 22, 80 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
100 J= 80, 51 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
101 J= 23, 81 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
102 J= 81, 52 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
103 J= 24, 82 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
104 J= 82, 53 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
105 J= 25, 83 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
106 J= 83, 54 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
107 J= 26, 84 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
108 J= 84, 55 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
109 J= 27, 85 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
110 J= 85, 56 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
111 J= 28, 86 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
112 J= 86, 57 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
113 J= 29, 87 Sec=19 IOFF=1.250 JOFF=0.000 RIGD=1.0
114 J= 87, 58 Sec=19 IOFF=0.000 JOFF=1.250 RIGD=1.0
115 J= 59, 60 Sec=20
116 J= 60, 61 Sec=20
117 J= 61, 62 Sec=20
118 J= 62, 63 Sec=20
119 J= 63, 64 Sec=20
120 J= 64, 65 Sec=20
121 J= 65, 66 Sec=20
122 J= 66, 67 Sec=20
123 J= 67, 68 Sec=20
124 J= 68, 69 Sec=20
125 J= 69, 70 Sec=20

126 J= 70, 71 Sec=20
 127 J= 71, 72 Sec=20
 128 J= 72, 73 Sec=20
 129 J= 73, 74 Sec=20
 130 J= 74, 75 Sec=20
 131 J= 75, 76 Sec=20
 132 J= 76, 77 Sec=20
 133 J= 77, 78 Sec=20
 134 J= 78, 79 Sec=20
 135 J= 79, 80 Sec=20
 136 J= 80, 81 Sec=20
 137 J= 81, 82 Sec=20
 138 J= 82, 83 Sec=20
 139 J= 83, 84 Sec=20
 140 J= 84, 85 Sec=20
 141 J= 85, 86 Sec=20
 142 J= 86, 87 Sec=20
 143 J= 1, 88 Sec=21
 144 J= 89, 88 Sec=21
 145 J= 90, 88 Sec=21
 146 J= 9, 91 Sec=21
 147 J= 92, 91 Sec=21
 148 J= 93, 91 Sec=21
 149 J= 21, 94 Sec=21
 150 J= 95, 94 Sec=21
 151 J= 96, 94 Sec=21
 152 J= 29, 97 Sec=21
 153 J= 98, 97 Sec=21
 154 J= 99, 97 Sec=21
 155 J= 30, 100 Sec=21
 156 J=101, 100 Sec=21
 157 J=102, 100 Sec=21
 158 J= 38, 103 Sec=21
 159 J=104, 103 Sec=21
 160 J=105, 103 Sec=21
 161 J= 50, 106 Sec=21
 162 J=107, 106 Sec=21
 163 J=108, 106 Sec=21
 164 J= 58, 109 Sec=21
 165 J=110, 109 Sec=21
 166 J=111, 109 Sec=21

 LOAD
 Name=A1 : UNEQUAL SETTLEMENT
 Type=RESTRAINT DISPLACEMENT
 Add= 89 Uz=-0.010
 Add= 90 Uz=-0.010
 Add=101 Uz=-0.010
 Add=102 Uz=-0.010

 Name=P1 : UNEQUAL SETTLEMENT
 Type=RESTRAINT DISPLACEMENT
 Add= 92 Uz=-0.010
 Add= 93 Uz=-0.010
 Add=104 Uz=-0.010
 Add=105 Uz=-0.010

 Name=P2 : 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=A2 : 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

 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=**