

附錄



\$A. Program Starting & Problem Title 2F DRAIN2D+x 向分析輸入檔

\$*****

START c2x (damping =5% ,unit KN-M)

\$*****

\$B. Structure Geometry Information

\$B1. Control Information

\$ NN -Number of nodes in structure

\$ NC -Number of control nodes(B2)

\$ NC1 -Number of commands for generating nodes coordinates(B3)

\$ NC2 -Number of commands for specifying nodes with zero displacement(B4)

\$ NC3 -Number of commands for specifying nodes with identical displacement(B5)

\$ NC4 -Number of commands for specifying lumped masses at nodes(B6)

\$ NEG -Number of different groups of elements (E)

\$ ICHK-Data checking code

\$ ICHK= 0:execuated

\$ =-1:execuated & only one element data block

\$ > 0:data check and process natural frequency

\$ i.e ICHK=2 will process first 2 mode's natural frequency

\$ ISV -Structure stiffness storage code

\$ ISV = 0:save in core

\$ = 1:save on secondary scratch storage

\$ MEM -Blank COMMON length setting

\$ IFK -Structure stiffness storage code

\$ IFK = 0:tangent stiffness

\$ = 1:constant stiffness

\$*****

\$ NN NC NC1 NC2 NC3 NC4 NEG ICHK ISV MEM IFK
ITER

84 6 3 1 8 5 2 0 0 0 1 500

\$*****

\$B2. Control Node Coordinates

\$ Ni -Control node no. ,in any sequence

\$ Xi -X coordinate of node

\$ Yi -Y coordinate of node

\$*****

\$ Ni Xi Yi

1 0 0

29 0 4.5

57 0 9

28 243 0

56 243 4.5

84 243 9

\$*****

\$B3. Commands for Straight Line Generation of Node Coordinates

```

$      N1  -Node no. at beginning
$      N2  -Node no. at ending
$      NG  -Number of nodes to be generated
$      dN  -Increment of node no. ,default value= 1
$      dS  -Increment spacing
$          dS >=1 :spacing= dS
$          dS < 1 :spacing= dS*L
$          dS  =0 :spacing= L/(NG+1) ,equal spacing & automatically
$*****
$*****
$  N1    N2    NG    dN        dS
    1    28    26    1
    29    56    26    1
    57    84    26    1
$*****
$*****
$B4.  Commands for Nodes with Zero Displacement
$      N1  -Node no. ,or no. at beginning
$      IRX -Restraint code for X-displacement
$      IRY -Restraint code for Y-displacement
$      IRZ -Restraint code for Z-rotation
$          IR= 0:active D.O.F.
$          IR= 1:inactive D.O.F. ,displacement & rotation will zero
$      N2  -Node no. at ending
$      dN  -Increment of node no. ,default value= 1
$*****
$*****
$  N1  IRX  IRY  IRZ    N2    dN
    1    1    1    1    28    1
$*****
$*****
$B5.  Commands for Nodes with Identical Displacement
$      ICC -Constraint code
$          ICC= 1:X-displacement
$          = 2:Y-displacement
$          = 3:Z-rotation
$      NT  -Total numbers of node with identical displacement ,NT <= 14
$      Ni  -Node no. with identical displacement
$  ICC    NT    N1    N2    N3    N4    N5    N6    N7    N8    N9    N10
N11  N12  N13  N14
    1     3    29    36    43
68     1    14    57    58    59    60    61    62    63    64    65    66    67
68     69    70
    1    14    71    72    73    74    75    76    77    78    79    80    81
82     83    84
    1     4    57    64    71    78
    1     1    29
    1     1    36
    1     1    43
    1     1    50
$*****
$*****

```

\$B6. Commands for Lumped Masses at Nodes

\$ N1 -Node no. ,or no. at beginning
\$ mX -Mass associated with X-displacement
\$ mY -Mass associated with Y-displacement
\$ mZ -Mass associated with Z-Rotary inertia
\$ N2 -Node no. at ending
\$ dN -Increment of node no. ,default value= 1
\$ Fac -Modify factor by which masses will divided ,default value= previous

\$*****

\$	N1	mX	mY	mZ	N2	dN	Fac
	29	266					1
	36	300					1
	43	285					1
	50	250					1
	57	1675	0	0			1

\$*****

\$C. Load Information

\$C1. Load Control Information

\$ ILD -Static load code
\$ ILD= 0:no static load
\$ = 1:static load exist
\$ NC -Number of commands for specifying static load at nodes(C2)
\$ NT -Total number of time step in the dynamic analysis
\$ dT -Interval of integration time step ,sec
\$ fXa -ground acceleration magnificated factor for X-dir.
\$ fXt -time scale factor for X-dir. ,default value= 1.0
\$ fYa -ground acceleration magnificated factor for Y-dir.
\$ fYt -time scale factor for Y-dir. ,default value= 1.0
\$ maxD -Absolute value of maximum displacement permitted

\$*****

\$	ILD	NC	NT	dT	fXa	fXt	fYa	fYt
maxD								
	2	26	0	0.005	0.6	0.0	0.0	0.0

\$*****

\$C2. Commands for Static Loads Applied Directily at Nodes

\$ N1 -Node no. ,or no. at beginning
\$ FX -Load in X-dir.
\$ FY -Load in Y-dir.
\$ MZ -Moment load about Z-dir.
\$ N2 -Node no. at ending
\$ dN -Increment of node no. ,default value= 1

\$*****

\$	N1	FX	FY	MZ	N2	dN
	29		-342		30	1
	43		-342		44	1
	36		-950			
	37		-684			

43	-266		
29	-399	56	1
58	-617	62	1
79	-617	83	1
65	-1233	69	1
72	-1233	76	1
57	-308		
63	-308		
78	-308		
64	-857		
71	-857		
77	-857		
70	-617		
84	-548		
36		1110	
43		1110	
49		-1110	
56		-1110	
64		744	
71		744	
77		-744	
84		-744	

\$*****

 \$C2(b). Nonlinear Static Loading Information
 \$ NPAT-Number of nonlinear static loading patterns
 \$ CASE-Number of loading combination for nonlinear static load
 \$*****

 \$NPAT CASE
 1 1
 \$*****

 \$C2(c). Nonlinear Static Loading Pattern Information
 \$ NNS -Number of command for nonlinear static nodal loads
 \$ TITLE-Pattern title
 \$*****

 \$ NNS PATTERN TITLE
 3
 \$*****

 \$C2(c). Command for Nonlinear Static Loads Applied Directly at Nodes
 \$ N1 -Node no. ,or no. at beginning
 \$ FX -Load in X-dir.
 \$ FY -Load in Y-dir.
 \$ MZ -Moment load about Z-dir.
 \$ N2 -Node no. at ending
 \$ dN -Increment of node no. ,default value= 1
 \$*****

 \$ N1 FX FY MZ N2 dN
 29 211

```

50          36
57          753
$*****
$*****
$C2(d). Command for Nonlinear Static Loading Combination
$    NLC -Load combination number to be specified sequentially
$    NSTE-Number of equal load steps in the combined load
$    SFLP-Scale factors for each loading pattern ,as many as NPAT
$*****
$*****
$ NLC NSTE      SFLP
   1   500      26.1
$*****
$*****
$C3.  Acceleration Records
$C3a. Control Information
$    NPX -Number of time-acceleration pairs in X-dir. ground motion
$    NPY -Number of time-acceleration pairs in Y-dir. ground motion
$    IP1 -Code for printing acceleration as input
$         IP1= 0:no output
$         = 1:get listing & printout
$    IP2 -Code for printing acceleration as scale & interpolated
$         IP2= 0:no output
$         = 1:get listing & printout
$    HEAD-Head of acceleration record
$*****
$*****
$    NPX      NPY      IP1      IP2      TITLE
HEAD
   0    0    0    0  1994NORTHBRIDGE
$
$*****
$*****
$C3b. Ground Acceleration Time History in X-dir
$    tj  -Time
$    aXj -Acceleration in X-dir.
$    t1   aX1    t2   aX2    t3   aX3    t4   aX4    t5   aX5    t6
aX6
$record.dat
$C3c. Ground Acceleration Time History in Y-dir
$    tj  -Time
$    aYj -Acceleration in Y-dir.
$    t1   aY1    t2   aY2    t3   aY3    t4   aY4    t5   aY5    t6
aY6
$C3d. Damping Information
$    alaph-Mass proportional damping factor
$    beta -Stiffness proportional damping factor ,for current tangent stiffness
$    beta0-Stiffness proportional damping factor ,for original elastic stiffness
$    delta-"Structural" damping factor
$    damp -damping ratio ,damp=0.05 for R.C. ,damp=0.01..0.02 for S.S.
$*****
$*****
$    alpha      beta      beta0      delta      m1      m2      damp      damp

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0.0703      0  0.004258      0.0  0  0      0.00      0.00
$*****
$*****
$D. Time History Output Specification
$D1. Control Information
$   Jt1 -Time interval for printout nodal displacement time history(D2,D3,D4)
$   Jt2 -Time interval for printout element results time history(E)
$   Jt3 -Time interval for intermediate printout of envelope
$       Time interval = Jt x dT
$   NNX -Number of nodes for which X-dir. displacement printout
$   NNY -Number of nodes for which Y-dir. displacement printout
$   NNZ -Number of nodes for which Z-dir. rotation printout
$   NPX -Number of pairs of nodes for which relative X-dir. displacement
printout
$   NPY -Number of pairs of nodes for which relative Y-dir. displacement printout
$   IP1 -Print code for nodal displacement
$   IP0 -Print code for relative nodal displacement
$   IP2 -Print code for element results
$       IP0,IP1,IP2= 0:as computation progresses
$                   = 1:both IP=0 & 2
$                   = 2:as re-ordered printout
$   ITS1-Tape storage code for nodal displacement & relative nodal displacement
$   ITS2-Tape storage code for element results
$       ITS1,ITS2= 0:printed but not save on tape
$                   = 1:printed and save on tape
$   IENG-Code for energy time history print
$   ISEC-Code for structure section force groups in the X-direction and
Y-direction
$   RND -Nodal displacement time history plot range
$   RED -Element displacement time history plot range
$   REF -Element force time history plot range
$*****
$*****
$ Jt1  Jt2  Jt3  NNX  NNY  NNZ  NPX  NPY  IP1  IP0  IP2  ITS1  ITS2
IENG ISEC  RND  RED  REF
    1    1    0    2    0    0    0    0    0    0    0    0    0
0    0    0    0    0
$*****
$*****
$D2. List of Nodes for X-dir Displacemet Time Histories
$ N1  N2  N3  N4  N5  N6  N7  N8  N9  N10
  29  57
$D3. List of Nodes for Y-dir Displacemet Time Histories
$ N1  N2  N3  N4  N5  N6  N7  N8  N9  N10
$   92
$D4. List of Nodes for Z-dir Rotation Time Histories
$ N1  N2  N3  N4  N5  N6  N7  N8  N9  N10
$*****
$*****
$D5. List of Nodes for Relative X-dir Displacemet Time Histories
$*****
$*****
$1-Ni 1-Nj 2-Ni 2-Nj 3-Ni 3-Nj 4-Ni 4-Nj 5-Ni 5-Nj

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$*****
*****
$ (GROUP 1):BEAM-COLUMN ELEMENTS - COLUMNS
$ COLUMNS (1) :C3
$E2. Beam-Column Element
$E2a. Control Information
$     Typ -Element type ,Typ= 2:Beam-Column Element
$     NE  -Total number of elements
$     NKe -Number of different element stiffness types ,NKe<=40
$     NEC -Number of different end eccentricity types ,NEC<=15
$     NSF -Number of different yield interaction surfaces ,NSF<=40
$     NFe -Number of different fixed end force patterns ,NFe<=35
$     NP0 -Number of different initial element force patterns ,NP0<=30
$*****
*****
$ Typ  NE  NKe  NEC  NSF  NFe  NP0
    2   56   1   0   1   0   0
$*****
*****
$E2b. Stiffness Type
$     JK  -Stiffness type no.
$     E   -Elastic modulus
$     r   -Ratio of strain hardening modulus ,r= E,harden/E
$     A   -Average cross sectional area
$     I   -Reference moment of inertia
$     kii -Flexural stiffness coefficient kii
$     kjj -Flexural stiffness coefficient kjj
$     kij -Flexural stiffness coefficient kij
$     Av  -Effective shear areas
$     u   -Poisson's ratio
$*****
*****
$ JK      E      r      A      I  kii  kjj  kij      Av
u
$
    1      20E7      0.03  0.05086  0.002836  4.0  4.0  2.0      0.000
0.3
$  2      5.02E7      0.003      1      0.0833  4.0  4.0  2.0      0.000
0.3
$  3      6.04E7      0.004      1      0.0833  4.0  4.0  2.0      0.000
0.3
$*****
*****
$E2c. End Eccentricity
$     JEC -End eccentricity type no.
$     Xi  -X eccentricity at end i
$     Xj  -X eccentricity at end j
$     Yi  -Y eccentricity at end i
$     Yj  -Y eccentricity at end j
$ JEC      Xi      Xj      Yi      Yj
$
$E2d. Yield Interaction Surface for Cross Section
$     JSF -Yield surface no.

```


\$ ISF -Yield surface shape code
 \$ ISF= 1:beam type ,without P-M interaction
 \$ = 2:steel column type
 \$ = 3:reinforced concrete column type
 \$ +My -Yield moment for positive curvature bending
 \$ -My -Yield moment for Negative curvature bending
 \$ Pyc -Compression yield force
 \$ Pyt -Tension yield force
 \$ rMA -Ratio of moment at balance point A ,rMA= MA/+My
 \$ rPA -Ratio of axial force at balance point A ,rPA= PA/Pyc
 \$ rMB -Ratio of moment at balance point B ,rMB= MB/-My
 \$ rPB -Ratio of axial force at balance point B ,rPB= PB/Pyc
 \$ if ISF=1 then Py ,rM ,rP inactive
 \$*****
 \$*****

\$ JSF	ISF	+My	-My	Pyc	Pyt	rMA	rPA	rMB	rPB
1	2	3246	-3246	-17463	17463	0.9	0.18	0.9	0.18
2	3	16679	-16679	-66243	43993	0.85	0.35	0.85	0.35
3	3	20161	-20161	-75695	54135	0.85	0.35	0.85	0.35

 \$*****
 \$*****
 \$E2e. Fixed End Force Patterns
 \$ JF -Pattern no.
 \$ Iax -Axes code
 \$ Iax= 0:in element coordinate system
 \$ = 1:in global coordinate system
 \$ Fi -Clamping force Fi
 \$ Vi -Clamping force Vi
 \$ Mi -Clamping moment Mi
 \$ Fj -Clamping force Fj
 \$ Vj -Clamping force Vj
 \$ Mj -Clamping moment Mj
 \$ LRF -Live load reduce factor

\$ JF	Iax	Fi	Vi	Mi	Fj	Vj	Mj	LRF
1	0	0	0	6.272	0	0	-6.272	

 \$E2f. Initial Element Force Patterns
 \$ JP0 -Pattern no.
 \$ Fi -Initial axial force Fi
 \$ Vi -Initial shear force Vi
 \$ Mi -Initial moment Mi
 \$ Fj -Initial axial force Fj
 \$ Vj -Initial shear force Vj
 \$ Mj -Initial moment Mj

\$ JP0	Iax	Fi	Vi	Mi	Fj	Vj	Mj

 \$
 \$E2g. Element Generation Commands
 \$ EN -Element no. or no. at begining
 \$ Ni -Node no. at element end i
 \$ Nj -Node no. at element end j
 \$ dN -Increment of node no. ,default value= 1
 \$ ST -Stiffness type no.

\$ ECCE -End eccentricity type no.
 \$ YSi -Yield surface no. for element end i
 \$ YSj -Yield surface no. for element end j
 \$ GEO -Code for geometric stiffness
 \$ GEO= 0:ignored
 \$ = 1:include geometric stiffness
 \$ THP -Time history output code
 \$ THP= 0:not require
 \$ = 1:require printout
 \$ FDD -Fixed end force pattern no. for static dead load
 \$ FDL -Fixed end force pattern no. for static live load
 \$ SDD -Scale factor for FDD
 \$ SLD -Scale factor for FLD
 \$ IFP -Initial force pattern no.
 \$ SIF -Scale factor for IFP
 \$ IENG-Elastic and inelastic strain energy group number
 \$ ISEC-Structure section force group number
 \$*****

 \$ EN Ni Nj dN ST ECCE YSi YSj GEO THP FDD FLD
 SDD SLD IFP SIF IENG ISEC
 \$C3

1	1	29	1	1	0	1	1	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
8	8	36	0	1	0	1	1	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
9	9	37	0	1	0	1	1	1	1	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
10	10	38	1	1	0	1	1	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
56	56	84	0	1	0	1	1	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0

 \$*****

\$ (GROUP 2):BEAM-COLUMN ELEMENTS - BEAM

\$E2. Beam-Column Element

\$E2a. Control Information

\$ Typ -Element type ,Typ= 2:Beam-Column Element
 \$ NE -Total number of elements
 \$ NKe -Number of different element stiffness types ,NKe<=40
 \$ NEC -Number of different end eccentricity types ,NEC<=15
 \$ NSF -Number of different yield interaction surfaces ,NSF<=40
 \$ NFe -Number of different fixed end force patterns ,NFe<=35

\$ NP0 -Number of different initial element force patterns ,NP0<=30

\$*****

\$ Typ NE NKe NEC NSF NFe NP0

2 48 4 0 4 7 0

\$*****

\$E2b. Stiffness Type

\$ JK -Stiffness type no.

\$ E -Elastic modulus

\$ r -Ratio of strain hardening modulus ,r= E,harden/E

\$ A -Average cross sectional area

\$ I -Reference moment of inertia

\$ kii -Flexural stiffness coefficient kii

\$ kjj -Flexural stiffness coefficient kjj

\$ kij -Flexural stiffness coefficient kij

\$ Av -Effective shear areas

\$ u -Poisson's ratio

\$*****

\$ JK E r A I kii kjj kij Av
u

\$

1 20E+7 0.03 1.858 0.00113 4.0 4.0 2.0 0.000
0.3

2 20E+7 0.03 2.058 0.00170 4.0 4.0 2.0 0.000
0.3

3 20E+7 0.03 2.52 0.00222 4.0 4.0 2.0 0.000
0.3

4 20E+7 0.03 2.93 0.00255 4.0 4.0 2.0 0.000
0.3

\$ 3 3.73E+7 0.004 0.60 0.0500 4.0 4.0 2.0 0.000
0.3

\$ 4 3.77E+7 0.004 0.65 0.0542 4.0 4.0 2.0 0.000
0.3

\$*****

\$E2c. End Eccentricity

\$ JEC -End eccentricity type no.

\$ Xi -X eccentricity at end i

\$ Xj -X eccentricity at end j

\$ Yi -Y eccentricity at end i

\$ Yj -Y eccentricity at end j

\$ JEC Xi Xj Yi Yj

\$

\$E2d. Yield Interaction Surface for Cross Section

\$ JSF -Yield surface no.

\$ ISF -Yield surface shape code

\$ ISF= 1:beam type ,without P-M interaction

\$ = 2:steel column type

\$ = 3:reinforced concrete column type

\$ +My -Yield moment for positive curvature bending

\$ -My -Yield moment for Negative curvature bending

\$ Pyc -Compression yield force

\$ Pyt -Tension yield force

\$ rMA -Ratio of moment at balance point A ,rMA= MA/+My

\$ rPA -Ratio of axial force at balance point A ,rPA= PA/Pyc

\$ rMB -Ratio of moment at balance point B ,rMB= MB/-My

\$ rPB -Ratio of axial force at balance point B ,rPB= PB/Pyc

\$ if ISF=1 then Py ,rM ,rP inactive

\$*****

\$ JSF	ISF	+My	-My	Pyc	Pyt	rMA	rPA	rMB	rPB
1	2	1323	-1323	-6378	6378	0.99	0.99	0.99	0.99
2	2	1700	-1700	-7070	7070	0.99	0.99	0.99	0.99
3	2	2220	-2220	-8820	8820	0.99	0.99	0.99	0.99
4	2	2550	-2550	-10200	-10200	0.99	0.99	0.99	0.99
\$ 3	2	8359	-8359	-36970	22110	0.85	0.35	0.85	0.35
\$ 4	2	9141	-9141	-39583	23795	0.85	0.35	0.85	0.35

\$*****

\$E2e. Fixed End Force Patterns

\$ JF -Pattern no.

\$ Iax -Axes code

\$ Iax= 0:in element coordinate system

\$ = 1:in global coordinate system

\$ Fi -Clamping force Fi

\$ Vi -Clamping force Vi

\$ Mi -Clamping moment Mi

\$ Fj -Clamping force Fj

\$ Vj -Clamping force Vj

\$ Mj -Clamping moment Mj

\$ LRF -Live load reduce factor

\$ JF	Iax	Fi	Vi	Mi	Fj	Vj
Mj	LRF					

\$LL

1	0	0	97.02	194.04	0	97.02	-194.04
2	0	0	48.54	97.02	0	48.54	-97.02

\$	3	0	0	55.7	74.3	0	55.7	-74.3
\$	4	0	0	78.4	104.6	0	78.4	-104.6
\$	5	0	0	29.4	39.2	0	29.4	-39.2
\$	6	0	0	55.7	74.3	0	55.7	-74.3
\$	7	0	0	78.5	104.6	0	78.5	-104.6
\$	8	0	0	29.4	39.2	0	29.4	-39.2
\$	9	0	0	32.7	43.6	0	32.7	-43.6
\$	10	0	0	29.4	39.2	0	29.4	39.2

\$DL

	3	0	0	177.8	347.5	0	177.8	-347.5
	4	0	0	149.5	264.6	0	149.5	-264.6
	5	0	0	105.0	157.59	0	105.07	-157.59
	6	0	0	103.6	203.2	0	103.6	-203.2
	7	0	0	159.67	263.79	0	159.67	-263.79
\$	14	0	0	260.5	347.4	0	260.5	-347.4
\$	15	0	0	96.5	128.7	0	96.5	-128.7
\$	16	0	0	201.8	269.0	0	201.8	-269.0
\$	17	0	0	284.1	378.8	0	284.1	-378.8
\$	18	0	0	97.7	130.3	0	97.7	-130.3
\$	19	0	0	108.1	144.7	0	108.1	-144.7
\$	20	0	0	97.7	130.3	0	97.7	-130.3

\$E2f. Initial Element Force Patterns

\$	JP0	-Pattern no.	
\$	Fi	-Initial axial force	Fi
\$	Vi	-Initial shear force	Vi
\$	Mi	-Initial moment	Mi
\$	Fj	-Initial axial force	Fj
\$	Vj	-Initial shear force	Vj

\$ Mj -Initial moment Mj

\$ JP0 Iax Fi Vi Mi Fj Vj Mj

\$

\$E2g. Element Generation Commands

\$ EN -Element no. or no. at begining

\$ Ni -Node no. at element end i

\$ Nj -Node no. at element end j

\$ dN -Increment of node no. ,default value= 1

\$ ST -Stiffness type no.

\$ ECCE -End eccentricity type no.

\$ YSi -Yield surface no. for element end i

\$ YSj -Yield surface no. for element end j

\$ GEO -Code for geometric stiffness

\$ GEO= 0:ignored

\$ = 1:include geometric stiffness

\$ THP -Time history output code

\$ THP= 0:not require

\$ = 1:require printout

\$ FDD -Fixed end force pattern no. for static dead load

\$ FDL -Fixed end force pattern no. for static live load

\$ SDD -Scale factor for FDD

\$ SLD -Scale factor for FLD

\$ IFP -Initial force pattern no.

\$ SIF -Scale factor for IFP

\$ IENG-Elastic and inelastic strain energy group number

\$ ISEC-Structure section force group number

\$*****

\$ EN Ni Nj dN ST ECCE YSi YSj GEO THP FDD FLD
SDD SLD IFP SIF IENG ISEC

\$C3

0	1	29	30	0	2	0	2	2	1	0	7	2	1.41	1.41
0	0	0												
0	2	30	31	0	2	0	2	2	1	0	5	0	1.41	1.41
0	0	0												
0	3	31	32	0	2	0	2	2	1	0	5	0	1.41	1.41
0	0	0												
0	4	32	33	0	2	0	2	2	1	0	5	0	1.41	1.41
0	0	0												
0	5	33	34	0	2	0	2	2	1	0	5	0	1.41	1.41
0	0	0												
0	6	34	35	0	2	0	2	2	1	0	5	0	1.41	1.41
0	0	0												
0	7	36	37	0	2	0	2	2	1	0	6	1	1.41	1.41
0	0	0												
0	8	37	38	0	2	0	2	2	1	0	5	0	1.41	1.41
0	0	0												
0	9	38	39	0	2	0	2	2	1	0	5	0	1.41	1.41
0	0	0												
0	10	39	40	0	2	0	2	2	1	0	5	0	1.41	1.41
0	0	0												
0	11	40	41	0	2	0	2	2	1	0	5	0	1.41	1.41
0	0	0												
0	12	41	42	0	2	0	2	2	1	0	5	0	1.41	1.41
0	0	0												
0	13	43	44	0	2	0	2	2	1	0	7	2	1.41	1.41
0	0	0												
0	14	44	45	0	2	0	2	2	1	0	5	0	1.41	1.41
0	0	0												
0	15	45	46	0	2	0	2	2	1	0	5	0	1.41	1.41
0	0	0												
	16	46	47	0	2	0	2	2	1	0	5	0	1.41	1.41

0	34	67	68	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	35	68	69	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	36	69	70	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	37	71	72	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	38	72	73	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	39	73	74	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	40	74	75	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	41	75	76	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	42	76	77	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	43	78	79	0	1	0	1	1	1	0	4	2	1.41	1.41
0	0	0												
0	44	79	80	0	1	0	1	1	1	0	4	2	1.41	1.41
0	0	0												
0	45	80	81	0	1	0	1	1	1	0	4	2	1.41	1.41
0	0	0												
0	46	81	82	0	1	0	1	1	1	0	4	2	1.41	1.41
0	0	0												
0	47	82	83	0	1	0	1	1	1	0	4	2	1.41	1.41
0	0	0												
0	48	83	84	0	1	0	1	1	1	0	4	2	1.41	1.41
0	0	0												
stop														

\$A. Program Starting & Problem Title 2F DRAIN2D+y 向分析輸入檔

```

$*****
*****
START c2y (damping =5.0% ,unit KN-m)
$*****
*****

```

\$B. Structure Geometry Information

\$B1. Control Information

```

$   NN   -Number of nodes in structure
$   NC   -Number of control nodes(B2)
$   NC1  -Number of commands for generating nodes coordinates(B3)
$   NC2  -Number of commands for specifying nodes with zero displacement(B4)
$   NC3  -Number of commands for specifying nodes with identical
displacement(B5)
$   NC4  -Number of commands for specifying lumped masses at nodes(B6)
$   NEG  -Number of different groups of elements (E)
$   ICHK -Data checking code
$       ICHK= 0:execuated
$           =-1:execuated & only one element data block
$           > 0:data check and process natural frequency
$               i.e ICHK=2 will process first 2 mode's natural frequency
$   ISV  -Structure stiffness storage code
$       ISV = 0:save in core
$           = 1:save on secondary scratch storage
$   MEM  -Blank COMMON length setting
$   IFK  -Structure stiffness storage code
$       IFK = 0:tangent stiffness
$       = 1:constant stiffness

```

```

$*****
*****
$  NN  NC  NC1  NC2  NC3  NC4  NEG  ICHK  ISV      MEM  IFK
ITER
    84   6   3   1   4   8   2   0   0      0   1  500

```

```

$*****
*****

```

\$B2. Control Node Coordinates

```

$   Ni   -Control node no. ,in any sequence
$   Xi   -X coordinate of node
$   Yi   -Y coordinate of node

```

```

$*****
*****
$  Ni      Xi      Yi
    1        0        0
   29        0      4.5
   57        0        9
   28      297        0
   56      297      4.5
   84      297        9

```

```

$*****
*****

```

\$B3. Commands for Straight Line Generation of Node Coordinates

```

$   N1   -Node no. at beginning

```

\$ N2 -Node no. at ending
 \$ NG -Number of nodes to be generated
 \$ dN -Increment of node no. ,default value= 1
 \$ dS -Increment spacing
 \$ dS >=1 :spacing= dS
 \$ dS < 1 :spacing= dS*L
 \$ dS =0 :spacing= L/(NG+1) ,equal spacing & automatically

\$*****

\$	N1	N2	NG	dN	dS
	1	28	26	1	
	29	56	26	1	
	57	84	26	1	

\$*****

\$B4. Commands for Nodes with Zero Displacement

\$ N1 -Node no. ,or no. at beginning
 \$ IRX -Restraint code for X-displacement
 \$ IRY -Restraint code for Y-displacement
 \$ IRZ -Restraint code for Z-rotation
 \$ IR= 0:active D.O.F.
 \$ IR= 1:inactive D.O.F. ,displacement & rotation will zero
 \$ N2 -Node no. at ending
 \$ dN -Increment of node no. ,default value= 1

\$*****

\$	N1	IRX	IRY	IRZ	N2	dN
	1	1	1	1	28	1

\$*****

\$B5. Commands for Nodes with Identical Displacement

\$ ICC -Constraint code
 \$ ICC= 1:X-displacement
 \$ = 2:Y-displacement
 \$ = 3:Z-rotation
 \$ NT -Total numbers of node with identical displacement ,NT <= 14
 \$ Ni -Node no. with identical displacement

\$	ICC	NT	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12	N13	N14
			1	2	29	33										
			1	14	57	58	59	60	61	62	63	64	65	66	67	
68			69	70												
			1	2	70	71										
			1	14	71	72	73	74	75	76	77	78	79	80	81	
82			83	84												

\$*****

\$B6. Commands for Lumped Masses at Nodes

\$ N1 -Node no. ,or no. at beginning
 \$ mX -Mass associated with X-displacement
 \$ mY -Mass associated with Y-displacement
 \$ mZ -Mass associated with Z-Rotary inertia
 \$ N2 -Node no. at ending

```

$      dN  -Increment of node no. ,default value= 1
$      Fac -Modify factor by which masses will divided ,default value= previous
$*****
*****
$  N1      mX      mY      mZ  N2  dN      Fac
  29      163
  33      215
  37      140
  41      140
  45      140
  49      140
  53      87
  57      1637
  1
$*****
*****
$C. Load Information
$C1. Load Control Information
$      ILD -Static load code
$      ILD= 0:no static load
$      = 1:static load exist
$      NC  -Number of commands for specifying static load at nodes(C2)
$      NT  -Total number of time step in the dynamic analysis
$      dT  -Interval of integration time step ,sec
$      fXa -ground acceleration magnificated factor for X-dir.
$      fXt -time scale factor for X-dir. ,default value= 1.0
$      fYa -ground acceleration magnificated factor for Y-dir.
$      fYt -time scale factor for Y-dir. ,default value= 1.0
$      maxD-Absolute value of maximum displacement permitted
$*****
*****
$  ILD  NC  NT      dT      fXa      fXt      fYa      fYt
maxD
  2    23    0      0.005      1.2      0.0      0.0      0.0
0.0
$*****
*****
$C2. Commands for Static Loads Applied Directily at Nodes
$      N1  -Node no. ,or no. at beginning
$      FX  -Load in X-dir.
$      FY  -Load in Y-dir.
$      MZ  -Moment load about Z-dir.
$      N2  -Node no. at ending
$      dN  -Increment of node no. ,default value= 1
$*****
*****
$  N1      FX      FY      MZ  N2  dN
  29      -342
  33      -342
  35      -342
  34      -684
  30      -1210
  31      -877
  29      -243      53      4

```

32	-243	56	4
61	-547	77	4
64	-547	80	4
62	-1095	78	4
63	-1095	79	4
57	-273		
60	-273		
81	-273		
58	-760		
59	-760		
83	-760		
82	-547		
84	-486		
57	-49	84	1
57	-121	81	4
60	-121	84	4

\$*****

\$C2(b). Nonlinear Static Loading Information
\$ NPAT-Number of nonlinear static loading patterns
\$ CASE-Number of loading combination for nonlinear static load
\$*****

\$NPAT CASE
1 1
\$*****

\$C2(c). Nonlinear Static Loading Pattern Information
\$ NNS -Number of command for nonlinear static nodal loads
\$ TITLE-Pattern title
\$*****

\$ NNS PATTERN TITLE
8
\$*****

\$C2(c). Command for Nonlinear Static Loads Applied Directly at Nodes
\$ N1 -Node no. ,or no. at beginning
\$ FX -Load in X-dir.
\$ FY -Load in Y-dir.
\$ MZ -Moment load about Z-dir.
\$ N2 -Node no. at ending
\$ dN -Increment of node no. ,default value= 1
\$*****

\$	N1	FX	FY	MZ	N2	dN
	29	39.2				
	33	25.9		36	3	
	37	18.7		40	3	
	41	18.7		44	3	
	45	18.7		48	3	
	49	18.7		52	3	
	53	21				

```

$*****
*****
$C2(d). Command for Nonlinear Static Loading Combination
$   NLC -Load combination number to be specified sequentially
$   NSTE-Number of equal load steps in the combined load
$   SFLP-Scale factors for each loading pattern ,as many as NPAT
$*****
*****
$ NLC NSTE      SFLP
   1   500      22.5
$*****
*****
$C3.  Acceleration Records
$C3a. Control Information
$   NPX -Number of time-acceleration pairs in X-dir. ground motion
$   NPY -Number of time-acceleration pairs in Y-dir. ground motion
$   IP1 -Code for printing acceleration as input
$       IP1= 0:no output
$       = 1:get listing & printout
$   IP2 -Code for printing acceleration as scale & interpolated
$       IP2= 0:no output
$       = 1:get listing & printout
$   HEAD-Head of acceleration record
$*****
*****
$   NPX      NPY      IP1      IP2      TITLE
HEAD
   0      0      0      0  1994NORTHRIDGE
$*****
*****
$C3b. Ground Acceleration Time History in X-dir
$   tj  -Time
$   aXj -Acceleration in X-dir.
$   t1   aX1   t2   aX2   t3   aX3   t4   aX4   t5   aX5   t6
aX6
$record.dat
$C3c. Ground Acceleration Time History in Y-dir
$   tj  -Time
$   aYj -Acceleration in Y-dir.
$   t1   aY1   t2   aY2   t3   aY3   t4   aY4   t5   aY5   t6
aY6
$C3d. Damping Information
$   alph-Mass proportional damping factor
$   beta -Stiffness proportional damping factor ,for current tangent stiffness
$   beta0-Stiffness proportional damping factor ,for original elastic stiffness
$   delta-"Structural" damping factor
$   damp -damping ratio ,damp=0.05 for R.C. ,damp=0.01..0.02 for S.S.
$*****
*****
$   alpha      beta      beta0      delta      m1      m2      damp      damp
   0.1532      0      0.01173      .00000      0      0      0      0
$*****

```

\$D. Time History Output Specification

\$D1. Control Information

\$ Jt1 -Time interval for printout nodal displacement time history(D2,D3,D4)
 \$ Jt2 -Time interval for printout element results time history(E)
 \$ Jt3 -Time interval for intermediate printout of envelope
 \$ Time interval = Jt x dT
 \$ NNX -Number of nodes for which X-dir. displacement printout
 \$ NNY -Number of nodes for which Y-dir. displacement printout
 \$ NNZ -Number of nodes for which Z-dir. rotation printout
 \$ NPX -Number of pairs of nodes for which relative X-dir. displacement
 printout
 \$ NPY -Number of pairs of nodes for which relative Y-dir. displacement printout
 \$ IP1 -Print code for nodal displacement
 \$ IP0 -Print code for relative nodal displacement
 \$ IP2 -Print code for element results
 \$ IP0,IP1,IP2= 0:as computation progresses
 \$ = 1:both IP=0 & 2
 \$ = 2:as re-ordered printout
 \$ ITS1-Tape storage code for nodal displacement & relative nodal displacement
 \$ ITS2-Tape storage code for element results
 \$ ITS1,ITS2= 0:printed but not save on tape
 \$ = 1:printed and save on tape
 \$ IENG-Code for energy time history print
 \$ ISEC-Code for structure section force groups in the X-direction and
 Y-direction
 \$ RND -Nodal displacement time history plot range
 \$ RED -Element displacement time history plot range
 \$ REF -Element force time history plot range

\$	Jt1	Jt2	Jt3	NNX	NNY	NNZ	NPX	NPY	IP1	IP0	IP2	ITS1	ITS2
IENG	ISEC	RND	RED	REF									
	1	1	0	2	0	0	0	0	0	0	0	0	0
	0	0	0	0	0								

\$D2. List of Nodes for X-dir Displacemet Time Histories

\$ N1 N2 N3 N4 N5 N6 N7 N8 N9 N10
 29 57

\$D3. List of Nodes for Y-dir Displacemet Time Histories

\$ N1 N2 N3 N4 N5 N6 N7 N8 N9 N10

\$D4. List of Nodes for Z-dir Rotation Time Histories

\$ N1 N2 N3 N4 N5 N6 N7 N8 N9 N10

\$D5. List of Nodes for Relative X-dir Displacemet Time Histories

\$1-Ni 1-Nj 2-Ni 2-Nj 3-Ni 3-Nj 4-Ni 4-Nj 5-Ni 5-Nj

\$

\$ (GROUP 2):BEAM-COLUMN ELEMENTS - COLUMNS

\$ COLUMNS (1) :C3

\$E2. Beam-Column Element

\$E2a. Control Information

\$ Typ -Element type ,Typ= 2:Beam-Column Element

\$ NE -Total number of elements

\$ NKe -Number of different element stiffness types ,NKe<=40

\$ NEC -Number of different end eccentricity types ,NEC<=15

\$ NSF -Number of different yield interaction surfaces ,NSF<=40

\$ NFe -Number of different fixed end force patterns ,NFe<=35

\$ NP0 -Number of different initial element force patterns ,NP0<=30

\$*****

\$*****

\$ Typ NE NKe NEC NSF NFe NP0

2 56 1 0 1 0 0

\$*****

\$*****

\$E2b. Stiffness Type

\$ JK -Stiffness type no.

\$ E -Elastic modulus

\$ r -Ratio of strain hardening modulus ,r= E,harden/E

\$ A -Average cross sectional area

\$ I -Reference moment of inertia

\$ kii -Flexural stiffness coefficient kii

\$ kjj -Flexural stiffness coefficient kjj

\$ kij -Flexural stiffness coefficient kij

\$ Av -Effective shear areas

\$ u -Poisson's ratio

\$*****

\$*****

\$ JK E r A I kii kjj kij Av

u

\$

1 20E7 0.03 0.0508 0.002836 4.0 4.0 2.0 0.000

0.3

\$*****

\$*****

\$E2c. End Eccentricity

\$ JEC -End eccentricity type no.

\$ Xi -X eccentricity at end i

\$ Xj -X eccentricity at end j

\$ Yi -Y eccentricity at end i

\$ Yj -Y eccentricity at end j

\$ JEC Xi Xj Yi Yj

\$

\$E2d. Yield Interaction Surface for Cross Section

\$ JSF -Yield surface no.

\$ ISF -Yield surface shape code

\$ ISF= 1:beam type ,without P-M interaction

\$ = 2:steel column type

\$ = 3:reinforced concrete column type

\$ +My -Yield moment for positive curvature bending

\$ -My -Yield moment for Negative curvature bending

\$ Pyc -Compression yield force
 \$ Pyt -Tension yield force
 \$ rMA -Ratio of moment at balance point A ,rMA= MA/+My
 \$ rPA -Ratio of axial force at balance point A ,rPA= PA/Pyc
 \$ rMB -Ratio of moment at balance point B ,rMB= MB/-My
 \$ rPB -Ratio of axial force at balance point B ,rPB= PB/Pyc
 \$ if ISF=1 then Py ,rM ,rP inactive

\$*****

\$ JSF	ISF	+My	-My	Pyc	Pyt	rMA	rPA	rMB	rPB
1	2	3246	-3246	-17463	17460	0.9	0.18	0.9	0.18

\$*****

\$E2e. Fixed End Force Patterns

\$ JF -Pattern no.
 \$ Iax -Axes code
 \$ Iax= 0:in element coordinate system
 \$ = 1:in global coordinate system
 \$ Fi -Clamping force Fi
 \$ Vi -Clamping force Vi
 \$ Mi -Clamping moment Mi
 \$ Fj -Clamping force Fj
 \$ Vj -Clamping force Vj
 \$ Mj -Clamping moment Mj
 \$ LRF -Live load reduce factor

\$ JF	Iax	Fi	Vi	Mi	Fj	Vj
Mj	LRF					
\$1	1	0	0	0	12.5	0

\$E2f. Initial Element Force Patterns

\$ JP0 -Pattern no.
 \$ Fi -Initial axial force Fi
 \$ Vi -Initial shear force Vi
 \$ Mi -Initial moment Mi
 \$ Fj -Initial axial force Fj
 \$ Vj -Initial shear force Vj
 \$ Mj -Initial moment Mj
 \$ JP0 Iax Fi Vi Mi Fj Vj Mj

\$E2g. Element Generation Commands

\$ EN -Element no. or no. at beginning
 \$ Ni -Node no. at element end i
 \$ Nj -Node no. at element end j
 \$ dN -Increment of node no. ,default value= 1
 \$ ST -Stiffness type no.
 \$ ECCE -End eccentricity type no.
 \$ YSi -Yield surface no. for element end i
 \$ YSj -Yield surface no. for element end j
 \$ GEO -Code for geometric stiffness
 \$ GEO= 0:ignored
 \$ = 1:include geometric stiffness
 \$ THP -Time history output code

\$ THP= 0: not require
 \$ = 1: require printout
 \$ FDD -Fixed end force pattern no. for static dead load
 \$ FDL -Fixed end force pattern no. for static live load
 \$ SDD -Scale factor for FDD
 \$ SLD -Scale factor for FLD
 \$ IFP -Initial force pattern no.
 \$ SIF -Scale factor for IFP
 \$ IENG-Elastic and inelastic strain energy group number
 \$ ISEC-Structure section force group number
 \$*****

 \$ EN Ni Nj dN ST ECCE YSi YSj GEO THP FDD FLD
 SDD SLD IFP SIF IENG ISEC
 \$C3

1	1	29	1	1	0	1	1	1	0	0	1	0
1	0	0	0									
	5	5	33	0	1	0	1	1	1	0	0	1
1	0	0	0									
	6	6	34	0	1	0	1	1	1	1	0	1
1	0	0	0									
	7	7	35	1	1	0	1	1	1	0	0	1
1	0	0	0									
	56	56	84	0	1	0	1	1	1	0	0	1
1	0	0	0									

 \$*****

 \$
 \$ (GROUP 2): BEAM-COLUMN ELEMENTS - BEAMS
 \$ COLUMNS (1) : C3
 \$E2. Beam-Column Element
 \$E2a. Control Information
 \$ Typ -Element type ,Typ= 2: Beam-Column Element
 \$ NE -Total number of elements
 \$ NKe -Number of different element stiffness types ,NKe<=40
 \$ NEC -Number of different end eccentricity types ,NEC<=15
 \$ NSF -Number of different yield interaction surfaces ,NSF<=40
 \$ NFe -Number of different fixed end force patterns ,NFe<=35
 \$ NP0 -Number of different initial element force patterns ,NP0<=30
 \$*****

\$ Typ	NE	NKe	NEC	NSF	NFe	NP0
2	35	3	0	3	8	0

 \$*****

 \$E2b. Stiffness Type
 \$ JK -Stiffness type no.
 \$ E -Elastic modulus
 \$ r -Ratio of strain hardening modulus ,r= E_{harden}/E
 \$ A -Average cross sectional area
 \$ I -Reference moment of inertia
 \$ kii -Flexural stiffness coefficient kii
 \$ kjj -Flexural stiffness coefficient kjj

\$ kij -Flexural stiffness coefficient kij
 \$ Av -Effective shear areas
 \$ u -Poisson's ratio
 \$*****

\$ JK	E	r	A	I	kii	kjj	kij	Av
1	20E7	0.03	1.858	0.00113	4.0	4.0	2.0	0.000
2	20E7	0.03	2.287	0.00170	4.0	4.0	2.0	0.000
3	20E7	0.03	2.26	0.00193	4.0	4.0	2.0	0.000

 \$*****

 \$E2c. End Eccentricity
 \$ JEC -End eccentricity type no.
 \$ Xi -X eccentricity at end i
 \$ Xj -X eccentricity at end j
 \$ Yi -Y eccentricity at end i
 \$ Yj -Y eccentricity at end j

\$ JEC	Xi	Xj	Yi	Yj

 \$
 \$E2d. Yield Interaction Surface for Cross Section
 \$ JSF -Yield surface no.
 \$ ISF -Yield surface shape code
 \$ ISF= 1:beam type ,without P-M interaction
 \$ = 2:steel column type
 \$ = 3:reinforced concrete column type
 \$ +My -Yield moment for positive curvature bending
 \$ -My -Yield moment for Negative curvature bending
 \$ Pyc -Compression yield force
 \$ Pyt -Tension yield force
 \$ rMA -Ratio of moment at balance point A ,rMA= MA/+My
 \$ rPA -Ratio of axial force at balance point A ,rPA= PA/Pyc
 \$ rMB -Ratio of moment at balance point B ,rMB= MB/-My
 \$ rPB -Ratio of axial force at balance point B ,rPB= PB/Pyc
 \$ if ISF=1 then Py ,rM ,rP inactive
 \$*****

\$ JSF	ISF	+My	-My	Pyc	Pyt	rMA	rPA	rMB	rPB
1	2	1323	-1323	-6378	6378	0.99	0.99	0.99	0.99
2	2	1700	-1700	-7070	7070	0.99	0.99	0.99	0.99
3	2	1930	-1930	-7910	7910	0.99	0.99	0.99	0.99

 \$*****

 \$E2e. Fixed End Force Patterns
 \$ JF -Pattern no.

```

$ Iax -Axes code
$      Iax= 0:in element coordinate system
$      = 1:in global coordinate system
$ Fi -Clamping force Fi
$ Vi -Clamping force Vi
$ Mi -Clamping moment Mi
$ Fj -Clamping force Fj
$ Vj -Clamping force Vj
$ Mj -Clamping moment Mj
$ LRF -Live load reduce factor
$ JF Iax Fi Vi Mi Fj Vj
Mj LRF
$LL
1 0 0 80.8 148 0 80.8 -148
2 0 0 40.4 74 0 40.4 -74

$SDL
3 0 0 40.8 73.5 0 40.8 -73.5
4 0 0 98 179.3 0 98 -179.3
5 0 0 8.56 14.3 0 8.56 -14.3
6 0 0 57 103.2 0 57 -103.2
7 0 0 32.8 52.9 0 32.8 -52.9
8 0 0 148 272 0 148
-272

```



\$E2f. Initial Element Force Patterns

```

$ JP0 -Pattern no.
$ Fi -Initial axial force Fi
$ Vi -Initial shear force Vi
$ Mi -Initial moment Mi
$ Fj -Initial axial force Fj
$ Vj -Initial shear force Vj
$ Mj -Initial moment Mj
$ JP0 Iax Fi Vi Mi Fj Vj Mj
$

```

\$E2g. Element Generation Commands

```

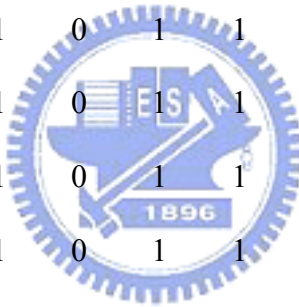
$ EN -Element no. or no. at beginning
$ Ni -Node no. at element end i
$ Nj -Node no. at element end j
$ dN -Increment of node no. ,default value= 1
$ ST -Stiffness type no.
$ ECCE -End eccentricity type no.
$ YSi -Yield surface no. for element end i
$ YSj -Yield surface no. for element end j
$ GEO -Code for geometric stiffness
$      GEO= 0:ignored
$      = 1:include geometric stiffness
$ THP -Time history output code

```

\$ THP= 0:not require
 \$ = 1:require printout
 \$ FDD -Fixed end force pattern no. for static dead load
 \$ FDL -Fixed end force pattern no. for static live load
 \$ SDD -Scale factor for FDD
 \$ SLD -Scale factor for FLD
 \$ IFP -Initial force pattern no.
 \$ SIF -Scale factor for IFP
 \$ IENG-Elastic and inelastic strain energy group number
 \$ ISEC-Structure section force group number
 \$*****

 \$ EN Ni Nj dN ST ECCE YSi YSj GEO THP FDD FLD
 SDD SLD IFP SIF IENG ISEC
 \$C3
 1 29 30 0 2 0 2 2 1 1 8 2 1.41 1.41
 0 0 0
 2 30 31 0 2 0 2 2 1 0 8 2 1.41 1.41
 0 0 0
 3 31 32 0 2 0 2 2 1 0 8 0 1.41 1.41
 0 0 0
 4 33 34 0 2 0 3 3 1 0 6 2 1.41 1.41
 0 0 0
 5 34 35 0 2 0 3 3 1 0 6 2 1.41 1.41
 0 0 0
 6 37 38 0 2 0 3 3 1 0 5 0 1.41 1.41
 0 0 0
 7 39 40 0 2 0 2 2 1 0 5 0 1.41 1.41
 0 0 0
 8 41 42 0 2 0 3 3 1 0 5 0 1.41 1.41
 0 0 0
 9 45 46 0 2 0 3 3 1 0 5 0 1.41 1.41
 0 0 0
 10 47 48 0 2 0 2 2 1 0 5 0 1.41 1.41
 0 0 0
 11 49 50 0 2 0 3 3 1 0 5 0 1.41 1.41
 0 0 0
 12 53 54 0 2 0 2 2 1 0 8 0 1.41 1.41
 0 0 0
 13 54 55 0 2 0 2 2 1 0 8 0 1.41 1.41
 0 0 0
 14 55 56 0 2 0 2 2 1 0 8 0 1.41 1.41
 0 0 0
 15 57 58 0 1 0 1 1 1 0 4 2 1.41 1.41
 0 0 0
 16 58 59 0 1 0 1 1 1 0 4 2 1.41 1.41
 0 0 0
 17 59 60 0 1 0 1 1 1 0 4 2 1.41 1.41
 0 0 0
 18 61 62 0 1 0 1 1 1 0 3 1 1.41 1.41
 0 0 0
 19 62 63 0 1 0 1 1 1 0 3 1 1.41 1.41
 0 0 0

0	20	63	64	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	21	65	66	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	22	66	67	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	23	67	68	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	24	69	70	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	25	70	71	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	26	71	72	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	27	73	74	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	28	74	75	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	29	75	76	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	30	77	78	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	31	78	79	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	32	79	80	0	1	0	1	1	1	0	3	1	1.41	1.41
0	0	0												
0	33	81	82	0	1	0	1	1	1	0	4	2	1.41	1.41
0	0	0												
0	34	82	83	0	1	0	1	1	1	0	4	2	1.41	1.41
0	0	0												
0	35	83	84	0	1	0	1	1	1	0	4	2	1.41	1.41
0	0	0												
stop														



PISA3D 2F PISA3D 分析輸入檔

Beam Column test

KN

M

----Analysis Method Command----

Analysis loadcontrol p 26.9 w 1.41 10

----Load Pattern Command: Nodal

//LoadPattern NodalLoad

Node? FX? FY? FZ? MX? MY? MZ?

LoadPattern NodalLoad

29 69.4 0 0 0 0 0

LoadPattern NodalLoad

36 52.7 0 0 0 0 0

LoadPattern NodalLoad

43 51.1 0 0 0 0 0

LoadPattern NodalLoad

50 67.8 0 0 0 0 0

LoadPattern NodalLoad

57 144 0 0 0 0 0

LoadPattern NodalLoad

64 214 0 0 0 0 0

LoadPattern NodalLoad

71 238 0 0 0 0 0

LoadPattern NodalLoad

78 163 0 0 0 0 0

LoadPattern NodalLoad w 36 0 0 0 0 0 787

LoadPattern NodalLoad w 43 0 0 0 0 0 787

LoadPattern NodalLoad w 49 0 0 0 0 0 -787

LoadPattern NodalLoad w 56 0 0 0 0 0 -787

LoadPattern NodalLoad w 64 0 0 0 0 0 315

LoadPattern NodalLoad w 71 0 0 0 0 0 315

LoadPattern NodalLoad w 77 0 0 0 0 0 -315

LoadPattern NodalLoad w 84 0 0 0 0 0 -315

LoadPattern NodalLoad w 36 0 -299 0 0 0 0

LoadPattern NodalLoad w 43 0 -299 0 0 0 0

LoadPattern NodalLoad w 49 0 -299 0 0 0 0

LoadPattern NodalLoad w 56 0 -299 0 0 0 0

LoadPattern NodalLoad w 64 0 -528 0 0 0 0

LoadPattern NodalLoad w 70 0 -528 0 0 0 0

LoadPattern NodalLoad w 71 0 -528 0 0 0 0

LoadPattern NodalLoad w 77 0 -528 0 0 0 0

LoadPattern NodalLoad w 29 0 -141 0 0 0 0

LoadPattern NodalLoad w 30 0 -141 0 0 0 0

LoadPattern NodalLoad w 31 0 -141 0 0 0 0

LoadPattern NodalLoad w 32 0 -141 0 0 0 0

LoadPattern NodalLoad w 33 0 -141 0 0 0 0

LoadPattern NodalLoad w 34 0 -141 0 0 0 0

Load----
Tag?

p

p

p

p

p

p

p

p

LoadPattern	NodalLoad	w	35	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	36	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	37	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	38	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	39	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	40	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	41	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	42	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	43	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	44	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	45	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	46	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	47	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	48	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	49	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	50	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	51	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	52	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	53	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	54	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	55	0	-141	0	0	0	0
LoadPattern	NodalLoad	w	56	0	-141	0	0	0	0

----Output Setting Command----

//Output OutFlag NodeIntv? ElemIntv? EvlpIntv? NodeCode? ElemCode?
EnergyIntv? F_GpIntv?

Output								outflag
1								1
0	2							2
1		1						

//Output NodeAbs NodeTag1? NodeTag2?
NodeTagN?

Output NodeAbs 57 64 71 78

----Analysis Method Command----

//Analysis ModeShape reqdModes? ID_M1? ID_M2? C1?
C2?

/Analysis	ModeShape					6	1
						2	
0.05						0.05	

----Node Generation Command----

//Node Tag? X?
Y? Z?

/GROUND
Node 1 0 0 0

Node	2	9	0	0
Node	3	18	0	0
Node	4	27	0	0
Node	5	36	0	0
Node	6	45	0	0
Node	7	54	0	0
Node	8	0	0	11
Node	9	9	0	11
Node	10	18	0	11
Node	11	27	0	11
Node	12	36	0	11
Node	13	45	0	11
Node	14	54	0	11
Node	15	0	0	22
Node	16	9	0	22
Node	17	18	0	22
Node	18	27	0	22
Node	19	36	0	22
Node	20	45	0	22
Node	21	54	0	22
Node	22	0	0	33
Node	23	9	0	33
Node	24	18	0	33
Node	25	27	0	33
Node	26	36	0	33
Node	27	45	0	33
Node	28	54	0	33
Node	29	0	4.5	0
Node	30	9	4.5	0
Node	31	18	4.5	0
Node	32	27	4.5	0
Node	33	36	4.5	0
Node	34	45	4.5	0
Node	35	54	4.5	0
Node	36	0	4.5	11
Node	37	9	4.5	11
Node	38	18	4.5	11
Node	39	27	4.5	11
Node	40	36	4.5	11
Node	41	45	4.5	11
Node	42	54	4.5	11
Node	43	0	4.5	22
Node	44	9	4.5	22
Node	45	18	4.5	22
Node	46	27	4.5	22
Node	47	36	4.5	22
Node	48	45	4.5	22
Node	49	54	4.5	22
Node	50	0	4.5	33
Node	51	9	4.5	33
Node	52	18	4.5	33
Node	53	27	4.5	33
Node	54	36	4.5	33



Node	55	45	4.5	33
Node	56	54	4.5	33
Node	57	0	9	0
Node	58	9	9	0
Node	59	18	9	0
Node	60	27	9	0
Node	61	36	9	0
Node	62	45	9	0
Node	63	54	9	0
Node	64	0	9	11
Node	65	9	9	11
Node	66	18	9	11
Node	67	27	9	11
Node	68	36	9	11
Node	69	45	9	11
Node	70	54	9	11
Node	71	0	9	22
Node	72	9	9	22
Node	73	18	9	22
Node	74	27	9	22
Node	75	36	9	22
Node	76	45	9	22
Node	77	54	9	22
Node	78	0	9	33
Node	79	9	9	33
Node	80	18	9	33
Node	81	27	9	33
Node	82	36	9	33
Node	83	45	9	33
Node	84	54	9	33
Node	85	1.89	4.5	0
Node	86	7.11	4.5	0
Node	87	10.89	4.5	0
Node	88	16.11	4.5	0
Node	89	19.89	4.5	0
Node	90	25.11	4.5	0
Node	91	28.89	4.5	0
Node	92	34.11	4.5	0
Node	93	37.89	4.5	0
Node	94	43.11	4.5	0
Node	95	46.89	4.5	0
Node	96	52.11	4.5	0
Node	97	1.89	4.5	11
Node	98	7.11	4.5	11
Node	99	10.89	4.5	11
Node	100	16.11	4.5	11
Node	101	19.89	4.5	11
Node	102	25.11	4.5	11
Node	103	28.89	4.5	11
Node	104	34.11	4.5	11
Node	105	37.89	4.5	11
Node	106	43.11	4.5	11
Node	107	46.89	4.5	11



Node 108	52.11	4.5	11
Node 109	1.89	4.5	22
Node 110	7.11	4.5	22
Node 111	10.89	4.5	22
Node 112	16.11	4.5	22
Node 113	19.89	4.5	22
Node 114	25.11	4.5	22
Node 115	28.89	4.5	22
Node 116	34.11	4.5	22
Node 117	37.89	4.5	22
Node 118	43.11	4.5	22
Node 119	46.89	4.5	22
Node 120	52.11	4.5	22
Node 121	1.89	4.5	33
Node 122	7.11	4.5	33
Node 123	10.89	4.5	33
Node 124	16.11	4.5	33
Node 125	19.89	4.5	33
Node 126	25.11	4.5	33
Node 127	28.89	4.5	33
Node 128	34.11	4.5	33
Node 129	37.89	4.5	33
Node 130	43.11	4.5	33
Node 131	46.89	4.5	33
Node 132	52.11	4.5	33
Node 133	2.7	9	0
Node 134	6.3	9	0
Node 135	11.7	9	0
Node 136	15.3	9	0
Node 137	20.7	9	0
Node 138	24.3	9	0
Node 139	29.7	9	0
Node 140	33.3	9	0
Node 141	38.7	9	0
Node 142	42.3	9	0
Node 143	47.7	9	0
Node 144	51.3	9	0
Node 145	2.7	9	11
Node 146	6.3	9	11
Node 147	11.7	9	11
Node 148	15.3	9	11
Node 149	20.7	9	11
Node 150	24.3	9	11
Node 151	29.7	9	11
Node 152	33.3	9	11
Node 153	38.7	9	11
Node 154	42.3	9	11
Node 155	47.7	9	11
Node 156	51.3	9	11
Node 157	2.7	9	22
Node 158	6.3	9	22
Node 159	11.7	9	22
Node 160	15.3	9	22



Node 161	20.7	9	22
Node 162	24.3	9	22
Node 163	29.7	9	22
Node 164	33.3	9	22
Node 165	38.7	9	22
Node 166	42.3	9	22
Node 167	47.7	9	22
Node 168	51.3	9	22
Node 169	2.7	9	33
Node 170	6.3	9	33
Node 171	11.7	9	33
Node 172	15.3	9	33
Node 173	20.7	9	33
Node 174	24.3	9	33
Node 175	29.7	9	33
Node 176	33.3	9	33
Node 177	38.7	9	33
Node 178	42.3	9	33
Node 179	47.7	9	33
Node 180	51.3	9	33
Node 181	0	4.5	2.31
Node 182	0	4.5	8.69
Node 183	0	4.5	13.31
Node 184	0	4.5	19.69
Node 185	0	4.5	24.31
Node 186	0	4.5	30.69
Node 187	9	4.5	2.31
Node 188	9	4.5	8.69
Node 189	9	4.5	13.31
Node 190	9	4.5	19.69
Node 191	18	4.5	2.31
Node 192	18	4.5	8.69
Node 193	18	4.5	24.31
Node 194	18	4.5	30.69
Node 195	27	4.5	2.31
Node 196	27	4.5	8.69
Node 197	36	4.5	2.31
Node 198	36	4.5	8.69
Node 199	36	4.5	24.31
Node 200	36	4.5	30.69
Node 201	45	4.5	2.31
Node 202	45	4.5	8.69
Node 203	54	4.5	2.31
Node 204	54	4.5	8.69
Node 205	54	4.5	13.31
Node 206	54	4.5	19.69
Node 207	54	4.5	24.31
Node 208	54	4.5	30.69
Node 209	0	9	2.31
Node 210	0	9	8.69
Node 211	0	9	13.31
Node 212	0	9	19.69
Node 213	0	9	24.31

Node	214	0	9	30.69
Node	215	9	9	2.31
Node	216	9	9	8.69
Node	217	9	9	13.31
Node	218	9	9	19.69
Node	219	9	9	24.31
Node	220	9	9	30.69
Node	221	18	9	2.31
Node	222	18	9	8.69
Node	223	18	9	13.31
Node	224	18	9	19.69
Node	225	18	9	24.31
Node	226	18	9	30.69
Node	227	27	9	2.31
Node	228	27	9	8.69
Node	229	27	9	13.31
Node	230	27	9	19.69
Node	231	27	9	24.31
Node	232	27	9	30.69
Node	233	36	9	2.31
Node	234	36	9	8.69
Node	235	36	9	13.31
Node	236	36	9	19.69
Node	237	36	9	24.31
Node	238	36	9	30.69
Node	239	45	9	2.31
Node	240	45	9	8.69
Node	241	45	9	13.31
Node	242	45	9	19.69
Node	243	45	9	24.31
Node	244	45	9	30.69
Node	245	54	9	2.31
Node	246	54	9	8.69
Node	247	54	9	13.31
Node	248	54	9	19.69
Node	249	54	9	24.31
Node	250	54	9	30.69



----Nodal Lump Mass Assign----

//Mass	node?	UX?	UY?	UZ?	RX?	RY?	RZ?
mass	29	53.9	0	53.9	0	0	0
mass	30	51.1	0	51.1	0	0	0
mass	31	37.6	0	37.6	0	0	0
mass	32	37.6	0	37.6	0	0	0
mass	33	37.6	0	37.6	0	0	0
mass	34	37.6	0	37.6	0	0	0
mass	35	40.4	0	40.4	0	0	0
mass	36	90.6	0	90.6	0	0	0

mass	37	40.1	0	40.1	0	0	0
mass	38	12.7	0	12.7	0	0	0
mass	39	12.7	0	12.7	0	0	0
mass	40	12.7	0	12.7	0	0	0
mass	41	12.7	0	12.7	0	0	0
mass	42	43.2	0	43.2	0	0	0
mass	43	77.1	0	77.1	0	0	0
mass	44	26.3	0	26.3	0	0	0
mass	45	12.7	0	12.7	0	0	0
mass	46	12.7	0	12.7	0	0	0
mass	47	12.7	0	12.7	0	0	0
mass	48	12.7	0	12.7	0	0	0
mass	49	63.3	0	63.3	0	0	0
mass	50	40.4	0	40.4	0	0	0
mass	51	37.6	0	37.6	0	0	0
mass	52	37.6	0	37.6	0	0	0
mass	53	37.6	0	37.6	0	0	0
mass	54	37.6	0	37.6	0	0	0
mass	55	37.6	0	37.6	0	0	0
mass	56	60.4	0	60.4	0	0	0
mass	57	35.7	0	35.7	0	0	0
mass	58	47.4	0	47.4	0	0	0
mass	59	47.4	0	47.4	0	0	0
mass	60	47.4	0	47.4	0	0	0
mass	61	47.4	0	47.4	0	0	0
mass	62	47.4	0	47.4	0	0	0
mass	63	35.7	0	35.7	0	0	0
mass	64	100.7	0	100.7	0	0	0
mass	65	61.2	0	61.2	0	0	0
mass	66	61.2	0	61.2	0	0	0
mass	67	61.2	0	61.2	0	0	0
mass	68	61.2	0	61.2	0	0	0
mass	69	61.2	0	61.2	0	0	0
mass	70	50.2	0	50.2	0	0	0
mass	71	100.7	0	100.7	0	0	0
mass	72	61.2	0	61.2	0	0	0
mass	73	61.2	0	61.2	0	0	0
mass	74	61.2	0	61.2	0	0	0
mass	75	61.2	0	61.2	0	0	0
mass	76	61.2	0	61.2	0	0	0
mass	77	100.7	0	100.7	0	0	0
mass	78	35.7	0	35.7	0	0	0
mass	79	47.4	0	47.4	0	0	0
mass	80	47.4	0	47.4	0	0	0
mass	81	47.4	0	47.4	0	0	0
mass	82	47.4	0	47.4	0	0	0
mass	83	47.4	0	47.4	0	0	0
mass	84	74.9	0	74.9	0	0	0

----DOF

Assign

Command--
//DOF Node?

UX?
UY?
RX?
RY?
RZ?

UZ?

DOF	1	-1	-1	-1	-1	-1	-1
DOF	2	-1	-1	-1	-1	-1	-1
DOF	3	-1	-1	-1	-1	-1	-1
DOF	4	-1	-1	-1	-1	-1	-1
DOF	5	-1	-1	-1	-1	-1	-1
DOF	6	-1	-1	-1	-1	-1	-1
DOF	7	-1	-1	-1	-1	-1	-1
DOF	8	-1	-1	-1	-1	-1	-1
DOF	9	-1	-1	-1	-1	-1	-1
DOF	10	-1	-1	-1	-1	-1	-1
DOF	11	-1	-1	-1	-1	-1	-1
DOF	12	-1	-1	-1	-1	-1	-1
DOF	13	-1	-1	-1	-1	-1	-1
DOF	14	-1	-1	-1	-1	-1	-1
DOF	15	-1	-1	-1	-1	-1	-1
DOF	16	-1	-1	-1	-1	-1	-1
DOF	17	-1	-1	-1	-1	-1	-1
DOF	18	-1	-1	-1	-1	-1	-1
DOF	19	-1	-1	-1	-1	-1	-1
DOF	20	-1	-1	-1	-1	-1	-1
DOF	21	-1	-1	-1	-1	-1	-1
DOF	22	-1	-1	-1	-1	-1	-1
DOF	23	-1	-1	-1	-1	-1	-1
DOF	24	-1	-1	-1	-1	-1	-1
DOF	25	-1	-1	-1	-1	-1	-1
DOF	26	-1	-1	-1	-1	-1	-1
DOF	27	-1	-1	-1	-1	-1	-1
DOF	28	-1	-1	-1	-1	-1	-1
DOF	29	0	0	0	0	0	0
DOF	30	0	0	0	0	0	0
DOF	31	0	0	0	0	0	0
DOF	32	0	0	0	0	0	0
DOF	33	0	0	0	0	0	0
DOF	34	0	0	0	0	0	0
DOF	35	0	0	0	0	0	0
DOF	36	0	0	0	0	0	0
DOF	37	0	0	0	0	0	0
DOF	38	0	0	0	0	0	0
DOF	39	0	0	0	0	0	0
DOF	40	0	0	0	0	0	0
DOF	41	0	0	0	0	0	0
DOF	42	0	0	0	0	0	0
DOF	43	0	0	0	0	0	0
DOF	44	0	0	0	0	0	0
DOF	45	0	0	0	0	0	0
DOF	46	0	0	0	0	0	0
DOF	47	0	0	0	0	0	0

DOF	48	0	0	0	0	0	0
DOF	49	0	0	0	0	0	0
DOF	50	0	0	0	0	0	0
DOF	51	0	0	0	0	0	0
DOF	52	0	0	0	0	0	0
DOF	53	0	0	0	0	0	0
DOF	54	0	0	0	0	0	0
DOF	55	0	0	0	0	0	0
DOF	56	0	0	0	0	0	0
DOF	57	0	0	0	0	0	0
DOF	58	0	0	0	0	57	0
DOF	59	0	0	0	0	57	0
DOF	60	0	0	0	0	57	0
DOF	61	0	0	0	0	57	0
DOF	62	0	0	0	0	57	0
DOF	63	0	0	0	0	57	0
DOF	64	0	0	0	0	57	0
DOF	65	0	0	0	0	57	0
DOF	66	0	0	0	0	57	0
DOF	67	0	0	0	0	57	0
DOF	68	0	0	0	0	57	0
DOF	69	0	0	0	0	57	0
DOF	70	0	0	0	0	57	0
DOF	71	0	0	0	0	57	0
DOF	72	0	0	0	0	57	0
DOF	73	0	0	0	0	57	0
DOF	74	0	0	0	0	57	0
DOF	75	0	0	0	0	57	0
DOF	76	0	0	0	0	57	0
DOF	77	0	0	0	0	57	0
DOF	78	0	0	0	0	57	0
DOF	79	0	0	0	0	57	0
DOF	80	0	0	0	0	57	0
DOF	81	0	0	0	0	57	0
DOF	82	0	0	0	0	57	0
DOF	83	0	0	0	0	57	0
DOF	84	0	0	0	0	57	0
DOF	85	0	0	0	0	0	0
DOF	86	0	0	0	0	0	0
DOF	87	0	0	0	0	0	0
DOF	88	0	0	0	0	0	0
DOF	89	0	0	0	0	0	0
DOF	90	0	0	0	0	0	0
DOF	91	0	0	0	0	0	0
DOF	92	0	0	0	0	0	0
DOF	93	0	0	0	0	0	0
DOF	94	0	0	0	0	0	0
DOF	95	0	0	0	0	0	0
DOF	96	0	0	0	0	0	0
DOF	97	0	0	0	0	0	0
DOF	98	0	0	0	0	0	0
DOF	99	0	0	0	0	0	0
DOF	100	0	0	0	0	0	0

DOF	101	0	0	0	0	0	0
DOF	102	0	0	0	0	0	0
DOF	103	0	0	0	0	0	0
DOF	104	0	0	0	0	0	0
DOF	105	0	0	0	0	0	0
DOF	106	0	0	0	0	0	0
DOF	107	0	0	0	0	0	0
DOF	108	0	0	0	0	0	0
DOF	109	0	0	0	0	0	0
DOF	110	0	0	0	0	0	0
DOF	111	0	0	0	0	0	0
DOF	112	0	0	0	0	0	0
DOF	113	0	0	0	0	0	0
DOF	114	0	0	0	0	0	0
DOF	115	0	0	0	0	0	0
DOF	116	0	0	0	0	0	0
DOF	117	0	0	0	0	0	0
DOF	118	0	0	0	0	0	0
DOF	119	0	0	0	0	0	0
DOF	120	0	0	0	0	0	0
DOF	121	0	0	0	0	0	0
DOF	122	0	0	0	0	0	0
DOF	123	0	0	0	0	0	0
DOF	124	0	0	0	0	0	0
DOF	125	0	0	0	0	0	0
DOF	126	0	0	0	0	0	0
DOF	127	0	0	0	0	0	0
DOF	128	0	0	0	0	0	0
DOF	129	0	0	0	0	0	0
DOF	130	0	0	0	0	0	0
DOF	131	0	0	0	0	0	0
DOF	132	0	0	0	0	0	0
DOF	133	0	0	0	0	0	0
DOF	134	0	0	0	0	0	0
DOF	135	0	0	0	0	0	0
DOF	136	0	0	0	0	0	0
DOF	137	0	0	0	0	0	0
DOF	138	0	0	0	0	0	0
DOF	139	0	0	0	0	0	0
DOF	140	0	0	0	0	0	0
DOF	141	0	0	0	0	0	0
DOF	142	0	0	0	0	0	0
DOF	143	0	0	0	0	0	0
DOF	144	0	0	0	0	0	0
DOF	145	0	0	0	0	0	0
DOF	146	0	0	0	0	0	0
DOF	147	0	0	0	0	0	0
DOF	148	0	0	0	0	0	0
DOF	149	0	0	0	0	0	0
DOF	150	0	0	0	0	0	0
DOF	151	0	0	0	0	0	0
DOF	152	0	0	0	0	0	0
DOF	153	0	0	0	0	0	0

DOF	154	0	0	0	0	0	0
DOF	155	0	0	0	0	0	0
DOF	156	0	0	0	0	0	0
DOF	157	0	0	0	0	0	0
DOF	158	0	0	0	0	0	0
DOF	159	0	0	0	0	0	0
DOF	160	0	0	0	0	0	0
DOF	161	0	0	0	0	0	0
DOF	162	0	0	0	0	0	0
DOF	163	0	0	0	0	0	0
DOF	164	0	0	0	0	0	0
DOF	165	0	0	0	0	0	0
DOF	166	0	0	0	0	0	0
DOF	167	0	0	0	0	0	0
DOF	168	0	0	0	0	0	0
DOF	169	0	0	0	0	0	0
DOF	170	0	0	0	0	0	0
DOF	171	0	0	0	0	0	0
DOF	172	0	0	0	0	0	0
DOF	173	0	0	0	0	0	0
DOF	174	0	0	0	0	0	0
DOF	175	0	0	0	0	0	0
DOF	176	0	0	0	0	0	0
DOF	177	0	0	0	0	0	0
DOF	178	0	0	0	0	0	0
DOF	179	0	0	0	0	0	0
DOF	180	0	0	0	0	0	0
DOF	181	0	0	0	0	0	0
DOF	182	0	0	0	0	0	0
DOF	183	0	0	0	0	0	0
DOF	184	0	0	0	0	0	0
DOF	185	0	0	0	0	0	0
DOF	186	0	0	0	0	0	0
DOF	187	0	0	0	0	0	0
DOF	188	0	0	0	0	0	0
DOF	189	0	0	0	0	0	0
DOF	190	0	0	0	0	0	0
DOF	191	0	0	0	0	0	0
DOF	192	0	0	0	0	0	0
DOF	193	0	0	0	0	0	0
DOF	194	0	0	0	0	0	0
DOF	195	0	0	0	0	0	0
DOF	196	0	0	0	0	0	0
DOF	197	0	0	0	0	0	0
DOF	198	0	0	0	0	0	0
DOF	199	0	0	0	0	0	0
DOF	200	0	0	0	0	0	0
DOF	201	0	0	0	0	0	0
DOF	202	0	0	0	0	0	0
DOF	203	0	0	0	0	0	0
DOF	204	0	0	0	0	0	0
DOF	205	0	0	0	0	0	0
DOF	206	0	0	0	0	0	0

DOF	207	0	0	0	0	0	0
DOF	208	0	0	0	0	0	0
DOF	209	0	0	0	0	0	0
DOF	210	0	0	0	0	0	0
DOF	211	0	0	0	0	0	0
DOF	212	0	0	0	0	0	0
DOF	213	0	0	0	0	0	0
DOF	214	0	0	0	0	0	0
DOF	215	0	0	0	0	0	0
DOF	216	0	0	0	0	0	0
DOF	217	0	0	0	0	0	0
DOF	218	0	0	0	0	0	0
DOF	219	0	0	0	0	0	0
DOF	220	0	0	0	0	0	0
DOF	221	0	0	0	0	0	0
DOF	222	0	0	0	0	0	0
DOF	223	0	0	0	0	0	0
DOF	224	0	0	0	0	0	0
DOF	225	0	0	0	0	0	0
DOF	226	0	0	0	0	0	0
DOF	227	0	0	0	0	0	0
DOF	228	0	0	0	0	0	0
DOF	229	0	0	0	0	0	0
DOF	230	0	0	0	0	0	0
DOF	231	0	0	0	0	0	0
DOF	232	0	0	0	0	0	0
DOF	233	0	0	0	0	0	0
DOF	234	0	0	0	0	0	0
DOF	235	0	0	0	0	0	0
DOF	236	0	0	0	0	0	0
DOF	237	0	0	0	0	0	0
DOF	238	0	0	0	0	0	0
DOF	239	0	0	0	0	0	0
DOF	240	0	0	0	0	0	0
DOF	241	0	0	0	0	0	0
DOF	242	0	0	0	0	0	0
DOF	243	0	0	0	0	0	0
DOF	244	0	0	0	0	0	0
DOF	245	0	0	0	0	0	0
DOF	246	0	0	0	0	0	0
DOF	247	0	0	0	0	0	0
DOF	248	0	0	0	0	0	0
DOF	249	0	0	0	0	0	0
DOF	250	0	0	0	0	0	0

----Section Definition Command----

//Section BCSection Tag? MatTag? Yie_Surf? Area?

Iz?
Iy?

J?
 Sz? Sy? Avy? Avz?
 //Column**
 Section BCSection c steel y 0.0509 0.00284
 0.00284 0.00425 0.00945 0.00945 0.0264 0.0264
 Section BCSection b1 steel y 5.0186 0.00113
 0.0000901 0.00000184 0.00385 0.000601 0.00706 0.01
 Section BCSection b2 steel y 5.0206 0.00170
 0.0000901 0.00000201 0.00485 0.000601 0.0091 0.01
 Section BCSection b3 steel y 5.0253 0.00222
 0.000172 0.00000356 0.00634 0.000981 0.0091 0.014
 Section BCSection b4 steel y 5.0293 0.00255
 0.000200 0.00000558 0.00728 0.00114 0.0105 0.0163
 Section BCSection b5 steel y 5.0226 0.00193
 0.000193 0.00000228 0.00552 0.000817 0.0091 0.0117

----Interaction

Surface
Definition

Command----

//InteractionSurface Steel Tag?

pMA?

pPA? pMB? pPB? pME? pPE? pMF? pPF? $\alpha 1$? $\alpha 2$?

InteractionSurface Steel y 0.9 0.15 -0.9 0.15 0.9 0.15 -0.9
 0.15 2 2

----Material

Definition
Command

//Material Bilinear Tag? Ei? SHR? fyt? fyc? Nu?
 Material bilinear steel 20E+7 0.03 343350 -343350 0.3

----Element Load Definition Command----

//ElementLoad FEF Tag? Dir? PXi? PYi?

PZi? MXi? MYi? MZi? PXj? PYj? PZj? MXj? MYj? MZj?

//LL

ElementLoad FEF xlro 0 0 43.8
 0 0 0

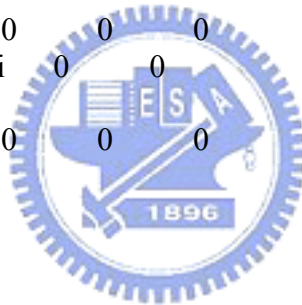
ElementLoad FEF xlrri 0 0 91.2
 0 0 0

ElementLoad FEF xl2i 0 0 127.4
 0 0 0

ElementLoad FEF ylro 0 0 26.0
 0 0 0

ElementLoad FEF ylrri 0 0 26.0
 0 0 0

ElementLoad	FEF	ylri	0	0		52.0
0						0 0
0	0	52.0	0	0	0	0
//DL						
ElementLoad	FEF	xdro	0	0		158.5
0						0 0
0	0	158.5	0	0	0	0
ElementLoad	FEF	xdri	0	0		216.3
0						0 0
0	0	216.3	0	0	0	0
ElementLoad	FEF	xd2o	0	0		113.5
0						0 0
0	0	113.5	0	0	0	0
ElementLoad	FEF	xd2i	0	0		157.4
0						0 0
0	0	157.4	0	0	0	0
ElementLoad	FEF	ydro	0	0		141.4
0						0 0
0	0	141.4	0	0	0	0
ElementLoad	FEF	ydri	0	0		123.2
0						0 0
0	0	123.2	0	0	0	0
ElementLoad	FEF	yd2o	0	0		176.7
0						0 0
0	0	176.7	0	0	0	0
ElementLoad	FEF	yd2i	0	0		44.2
0						0 0
0	0	44.2	0	0	0	0



----Element Load Case----

//ElemLoadCase	CaseTag?	LpTag1?	LpFac1?	LpTag2?	LpFac2?
ElemLoadCase	xro				xdro
1	xlro	1			
ElemLoadCase	xri				xdri
1	xlri	1			
ElemLoadCase	x2o				xd2o
1	xd2o	0			
ElemLoadCase	x2i				xd2i
1	xl2i	1			
ElemLoadCase	yro				ydro
1	ylro	1			
ElemLoadCase	yri				ydri
1	ylri	1			
ElemLoadCase	y2o				yd2o
1	yd2o	0			
ElemLoadCase	y2i				yd2i
1	ylro	1			

----Element Definition Command----

//COLUMN

Out?	FEFCase?	Fac?	Tag?	E_Gp?	I?	J?	PhiY?	SecTag?	RezTag?	GeoK?
Element	BeamColumn	1001	1	29	c	0	0			
1	0	0	0							
Element	BeamColumn	1002	2	30	c	0	0			
1	0	0	0							
Element	BeamColumn	1003	3	31	c	0	0			
1	0	0	0							
Element	BeamColumn	1004	4	32	c	0	0			
1	0	0	0							
Element	BeamColumn	1005	5	33	c	0	0			
1	0	0	0							
Element	BeamColumn	1006	6	34	c	0	0			
1	0	0	0							
Element	BeamColumn	1007	7	35	c	0	0			
1	0	0	0							
Element	BeamColumn	1008	8	36	c	0	0			
1	0	0	0							
Element	BeamColumn	1009	9	37	c	0	0			
1	0	0	0							
Element	BeamColumn	1010	10	38	c	0	0			
1	0	0	0							
Element	BeamColumn	1011	11	39	c	0	0			
1	0	0	0							
Element	BeamColumn	1012	12	40	c	0	0			
1	0	0	0							
Element	BeamColumn	1013	13	41	c	0	0			
1	0	0	0							
Element	BeamColumn	1014	14	42	c	0	0			
1	0	0	0							
Element	BeamColumn	1015	15	43	c	0	0			
1	0	0	0							
Element	BeamColumn	1016	16	44	c	0	0			
1	0	0	0							
Element	BeamColumn	1017	17	45	c	0	0			
1	0	0	0							
Element	BeamColumn	1018	18	46	c	0	0			
1	0	0	0							
Element	BeamColumn	1019	19	47	c	0	0			
1	0	0	0							
Element	BeamColumn	1020	20	48	c	0	0			
1	0	0	0							
Element	BeamColumn	1021	21	49	c	0	0			
1	0	0	0							
Element	BeamColumn	1022	22	50	c	0	0			
1	0	0	0							
Element	BeamColumn	1023	23	51	c	0	0			
1	0	0	0							
Element	BeamColumn	1024	24	52	c	0	0			
1	0	0	0							

Element	BeamColumn	1025	25	53	c	0	0
1	0	0	0				
Element	BeamColumn	1026	26	54	c	0	0
1	0	0	0				
Element	BeamColumn	1027	27	55	c	0	0
1	0	0	0				
Element	BeamColumn	1028	28	56	c	0	0
1	0	0	0				
Element	BeamColumn	1029	29	57	c	0	0
1	0	0	0				
Element	BeamColumn	1030	30	58	c	0	0
1	0	0	0				
Element	BeamColumn	1031	31	59	c	0	0
1	0	0	0				
Element	BeamColumn	1032	32	60	c	0	0
1	0	0	0				
Element	BeamColumn	1033	33	61	c	0	0
1	0	0	0				
Element	BeamColumn	1034	34	62	c	0	0
1	0	0	0				
Element	BeamColumn	1035	35	63	c	0	0
1	0	0	0				
Element	BeamColumn	1036	36	64	c	0	0
1	0	0	0				
Element	BeamColumn	1037	37	65	c	0	0
1	0	0	0				
Element	BeamColumn	1038	38	66	c	0	0
1	0	0	0				
Element	BeamColumn	1039	39	67	c	0	0
1	0	0	0				
Element	BeamColumn	1040	40	68	c	0	0
1	0	0	0				
Element	BeamColumn	1041	41	69	c	0	0
1	0	0	0				
Element	BeamColumn	1042	42	70	c	0	0
1	0	0	0				
Element	BeamColumn	1043	43	71	c	0	0
1	0	0	0				
Element	BeamColumn	1044	44	72	c	0	0
1	0	0	0				
Element	BeamColumn	1045	45	73	c	0	0
1	0	0	0				
Element	BeamColumn	1046	46	74	c	0	0
1	0	0	0				
Element	BeamColumn	1047	47	75	c	0	0
1	0	0	0				
Element	BeamColumn	1048	48	76	c	0	0
1	0	0	0				
Element	BeamColumn	1049	49	77	c	0	0
1	0	0	0				
Element	BeamColumn	1050	50	78	c	0	0
1	0	0	0				
Element	BeamColumn	1051	51	79	c	0	0

1	0	0	0					
Element	BeamColumn	1052	52	80	c	0	0	
1	0	0	0					
Element	BeamColumn	1053	53	81	c	0	0	
1	0	0	0					
Element	BeamColumn	1054	54	82	c	0	0	
1	0	0	0					
Element	BeamColumn	1055	55	83	c	0	0	
1	0	0	0					
Element	BeamColumn	1056	56	84	c	0		1
1	0	0	0					

//BEAMx

//Element	BeamColumn	Tag?	I?	J?	SecTag?	RezTag?	GeoK?
Out?	FEFCCase?	Fac?	E_Gp?	F_Gp?	PhiY?		
Element	BeamColumn	1	29	85	b2	0	0
1	0	1.41	0				
Element	BeamColumn	2	85	86	b2	0	0
1	x2o	1.41	0				
Element	BeamColumn	3	86	30	b2	0	0
1	0	1.41	0				
Element	BeamColumn	4	30	87	b2	0	0
1	0	1.41	0				
Element	BeamColumn	5	87	88	b2	0	0
1	x2o	1.41	0				
Element	BeamColumn	6	88	31	b2	0	0
1	0	1.41	0				
Element	BeamColumn	7	31	89	b2	0	0
1	0	1.41	0				
Element	BeamColumn	8	89	90	b2	0	0
1	x2o	1.41	0				
Element	BeamColumn	9	90	32	b2	0	0
1	0	1.41	0				
Element	BeamColumn	10	32	91	b2	0	0
1	0	1.41	0				
Element	BeamColumn	11	91	92	b2	0	0
1	x2o	1.41	0				
Element	BeamColumn	12	92	33	b2	0	0
1	0	1.41	0				
Element	BeamColumn	13	33	93	b2	0	0
1	0	1.41	0				
Element	BeamColumn	14	93	94	b2	0	0
1	x2o	1.41	0				
Element	BeamColumn	15	94	34	b2	0	0
1	0	1.41	0				
Element	BeamColumn	16	34	95	b2	0	0
1	0	1.41	0				
Element	BeamColumn	17	95	96	b2	0	0
1	x2o	1.41	0				
Element	BeamColumn	18	96	35	b2	0	0
1	0	1.41	0				
Element	BeamColumn	19	36	97	b2	0	0

1	0	1.41	0					
Element	BeamColumn	20	97	98	b2	0	0	
1	x2i	1.41	0					
Element	BeamColumn	21	98	37	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	22	37	99	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	23	99	100	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	24	100	38	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	25	38	101	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	26	101	102	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	27	102	39	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	28	39	103	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	29	103	104	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	30	104	40	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	31	40	105	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	32	105	106	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	33	106	41	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	34	41	107	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	35	107	108	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	36	108	42	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	37	43	109	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	38	109	110	b2	0	0	
1	x2i	1.41	0					
Element	BeamColumn	39	110	44	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	40	44	111	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	41	111	112	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	42	112	45	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	43	45	113	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	44	113	114	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	45	114	46	b2	0	0	
1	0	1.41	0					

Element	BeamColumn	46	46	115	b2	0	0
1	0	1.41	0				
Element	BeamColumn	47	115	116	b2	0	0
1	0	1.41	0				
Element	BeamColumn	48	116	47	b2	0	0
1	0	1.41	0				
Element	BeamColumn	49	47	117	b3	0	0
1	0	1.41	0				
Element	BeamColumn	50	117	118	b3	0	0
1	0	1.41	0				
Element	BeamColumn	51	118	48	b3	0	0
1	0	1.41	0				
Element	BeamColumn	52	48	119	b3	0	0
1	0	1.41	0				
Element	BeamColumn	53	119	120	b3	0	0
1	0	1.41	0				
Element	BeamColumn	54	120	49	b3	0	0
1	0	1.41	0				
Element	BeamColumn	55	50	121	b3	0	0
1	0	1.41	0				
Element	BeamColumn	56	121	122	b3	0	0
1	x2o	1.41	0				
Element	BeamColumn	57	122	51	b3	0	0
1	0	1.41	0				
Element	BeamColumn	58	51	123	b3	0	0
1	0	1.41	0				
Element	BeamColumn	59	123	124	b3	0	0
1	x2o	1.41	0				
Element	BeamColumn	60	124	52	b3	0	0
1	0	1.41	0				
Element	BeamColumn	61	52	125	b4	0	0
1	0	1.41	0				
Element	BeamColumn	62	125	126	b4	0	0
1	x2o	1.41	0				
Element	BeamColumn	63	126	53	b4	0	0
1	0	1.41	0				
Element	BeamColumn	64	53	127	b4	0	0
1	0	1.41	0				
Element	BeamColumn	65	127	128	b4	0	0
1	x2o	1.41	0				
Element	BeamColumn	66	128	54	b4	0	0
1	0	1.41	0				
Element	BeamColumn	67	54	129	b4	0	0
1	0	1.41	0				
Element	BeamColumn	68	129	130	b4	0	0
1	x2o	1.41	0				
Element	BeamColumn	69	130	55	b4	0	0
1	0	1.41	0				
Element	BeamColumn	70	55	131	b4	0	0
1	0	1.41	0				
Element	BeamColumn	71	131	132	b4	0	0
1	x2o	1.41	0				
Element	BeamColumn	72	132	56	b4	0	0

1	0	1.41	0					
Element	BeamColumn	73	57	133	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	74	133	134	b1	0	0	
1	xro	1.41	0					
Element	BeamColumn	75	134	58	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	76	58	135	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	77	135	136	b1	0	0	
1	xro	1.41	0					
Element	BeamColumn	78	136	59	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	79	59	137	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	80	137	138	b1	0	0	
1	xro	1.41	0					
Element	BeamColumn	81	138	60	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	82	60	139	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	83	139	140	b1	0	0	
1	xro	1.41	0					
Element	BeamColumn	84	140	61	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	85	61	141	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	86	141	142	b1	0	0	
1	xro	1.41	0					
Element	BeamColumn	87	142	62	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	88	62	143	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	89	143	144	b1	0	0	
1	xro	1.41	0					
Element	BeamColumn	90	144	63	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	91	64	145	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	92	145	146	b1	0	0	
1	xri	1.41	0					
Element	BeamColumn	93	146	65	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	94	65	147	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	95	147	148	b1	0	0	
1	xri	1.41	0					
Element	BeamColumn	96	148	66	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	97	66	149	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	98	149	150	b1	0	0	
1	xri	1.41	0					

Element	BeamColumn	99	150	67	b1	0	0
1	0	1.41	0				
Element	BeamColumn	100	67	151	b1	0	0
1	0	1.41	0				
Element	BeamColumn	101	151	152	b1	0	0
1	xri	1.41	0				
Element	BeamColumn	102	152	68	b1	0	0
1	0	1.41	0				
Element	BeamColumn	103	68	153	b1	0	0
1	0	1.41	0				
Element	BeamColumn	104	153	154	b1	0	0
1	xri	1.41	0				
Element	BeamColumn	105	154	69	b1	0	0
1	0	1.41	0				
Element	BeamColumn	106	69	155	b1	0	0
1	0	1.41	0				
Element	BeamColumn	107	155	156	b1	0	0
1	xri	1.41	0				
Element	BeamColumn	108	156	70	b1	0	0
1	0	1.41	0				
Element	BeamColumn	109	71	157	b1	0	0
1	0	1.41	0				
Element	BeamColumn	110	157	158	b1	0	0
1	xri	1.41	0				
Element	BeamColumn	111	158	72	b1	0	0
1	0	1.41	0				
Element	BeamColumn	112	72	159	b1	0	0
1	0	1.41	0				
Element	BeamColumn	113	159	160	b1	0	0
1	xri	1.41	0				
Element	BeamColumn	114	160	73	b1	0	0
1	0	1.41	0				
Element	BeamColumn	115	73	161	b1	0	0
1	0	1.41	0				
Element	BeamColumn	116	161	162	b1	0	0
1	xri	1.41	0				
Element	BeamColumn	117	162	74	b1	0	0
1	0	1.41	0				
Element	BeamColumn	118	74	163	b1	0	0
1	0	1.41	0				
Element	BeamColumn	119	163	164	b1	0	0
1	xri	1.41	0				
Element	BeamColumn	120	164	75	b1	0	0
1	0	1.41	0				
Element	BeamColumn	121	75	165	b1	0	0
1	0	1.41	0				
Element	BeamColumn	122	165	166	b1	0	0
1	xri	1.41	0				
Element	BeamColumn	123	166	76	b1	0	0
1	0	1.41	0				
Element	BeamColumn	124	76	167	b1	0	0
1	0	1.41	0				
Element	BeamColumn	125	167	168	b1	0	0

1	xri	1.41	0					
Element	BeamColumn	126	168	77	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	127	78	169	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	128	169	170	b1	0	0	
1	xro	1.41	0					
Element	BeamColumn	129	170	79	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	130	79	171	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	131	171	172	b1	0	0	
1	xro	1.41	0					
Element	BeamColumn	132	172	80	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	133	80	173	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	134	173	174	b1	0	0	
1	xro	1.41	0					
Element	BeamColumn	135	174	81	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	136	81	175	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	137	175	176	b1	0	0	
1	xro	1.41	0					
Element	BeamColumn	138	176	82	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	139	82	177	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	140	177	178	b1	0	0	
1	xro	1.41	0					
Element	BeamColumn	141	178	83	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	142	83	179	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	143	179	180	b1	0	0	
1	xro	1.41	0					
Element	BeamColumn	144	180	84	b1	0	0	
1	0	1.41	0					

```
//BEAMy
//Element BeamColumn Tag? I? J? SecTag? RezTag? GeoK?
Out? FEFCCase? Fac? E_Gp?
Element BeamColumn 10001 29 181 b2 0 0
1 0 1.41 0
Element BeamColumn 10002 181 182 b2 0 0
1 y2o 1.41 0
Element BeamColumn 10003 182 36 b2 0 0
1 0 1.41 0
Element BeamColumn 10004 36 183 b2 0 0
```

1	0	1.41	0					
Element	BeamColumn	10005	183	184	b2	0	0	
1	y2o	1.41	0					
Element	BeamColumn	10006	184	43	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	10007	43	185	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	10008	185	186	b2	0	0	
1	y2o	1.41	0					
Element	BeamColumn	10009	186	50	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	10010	30	187	b5	0	0	
1	0	1.41	0					
Element	BeamColumn	10011	187	188	b5	0	0	
1	y2i	1.41	0					
Element	BeamColumn	10012	188	37	b5	0	0	
1	0	1.41	0					
Element	BeamColumn	10013	37	189	b5	0	0	
1	0	1.41	0					
Element	BeamColumn	10014	189	190	b5	0	0	
1	y2i	1.41	0					
Element	BeamColumn	10015	190	44	b5	0	0	
1	0	1.41	0					
Element	BeamColumn	10016	31	191	b5	0	0	
1	0	1.41	0					
Element	BeamColumn	10017	191	192	b5	0	0	
1	0	1.41	0					
Element	BeamColumn	10018	192	38	b5	0	0	
1	0	1.41	0					
Element	BeamColumn	10019	45	193	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	10020	193	194	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	10021	194	52	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	10022	32	195	b5	0	0	
1	0	1.41	0					
Element	BeamColumn	10023	195	196	b5	0	0	
1	0	1.41	0					
Element	BeamColumn	10024	196	39	b5	0	0	
1	0	1.41	0					
Element	BeamColumn	10025	33	197	b5	0	0	
1	0	1.41	0					
Element	BeamColumn	10026	197	198	b5	0	0	
1	0	1.41	0					
Element	BeamColumn	10027	198	40	b5	0	0	
1	0	1.41	0					
Element	BeamColumn	10028	47	199	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	10029	199	200	b2	0	0	
1	0	1.41	0					
Element	BeamColumn	10030	200	54	b2	0	0	
1	0	1.41	0					

Element	BeamColumn	10031	34	201	b5	0	0
1	0	1.41	0				
Element	BeamColumn	10032	201	202	b5	0	0
1	0	1.41	0				
Element	BeamColumn	10033	202	41	b5	0	0
1	0	1.41	0				
Element	BeamColumn	10034	35	203	b2	0	0
1	0	1.41	0				
Element	BeamColumn	10035	203	204	b2	0	0
1	y2o	1.41	0				
Element	BeamColumn	10036	204	42	b2	0	0
1	0	1.41	0				
Element	BeamColumn	10037	42	205	b2	0	0
1	0	1.41	0				
Element	BeamColumn	10038	205	206	b2	0	0
1	y2o	1.41	0				
Element	BeamColumn	10039	206	49	b2	0	0
1	0	1.41	0				
Element	BeamColumn	10040	49	207	b2	0	0
1	0	1.41	0				
Element	BeamColumn	10041	207	208	b2	0	0
1	y2o	1.41	0				
Element	BeamColumn	10042	208	56	b2	0	0
1	0	1.41	0				
Element	BeamColumn	10043	57	209	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10044	209	210	b1	0	0
1	yro	1.41	0				
Element	BeamColumn	10045	210	64	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10046	64	211	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10047	211	212	b1	0	0
1	yro	1.41	0				
Element	BeamColumn	10048	212	71	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10049	71	213	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10050	213	214	b1	0	0
1	yro	1.41	0				
Element	BeamColumn	10051	214	78	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10052	58	215	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10053	215	216	b1	0	0
1	yri	1.41	0				
Element	BeamColumn	10054	216	65	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10055	65	217	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10056	217	218	b1	0	0
1	yri	1.41	0				
Element	BeamColumn	10057	218	72	b1	0	0

1	0	1.41	0					
Element	BeamColumn	10058	72	219	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10059	219	220	b1	0	0	
1	yri	1.41	0					
Element	BeamColumn	10060	220	79	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10061	59	221	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10062	221	222	b1	0	0	
1	yri	1.41	0					
Element	BeamColumn	10063	222	66	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10064	66	223	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10065	223	224	b1	0	0	
1	yri	1.41	0					
Element	BeamColumn	10066	224	73	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10067	73	225	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10068	225	226	b1	0	0	
1	yri	1.41	0					
Element	BeamColumn	10069	226	80	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10070	60	227	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10071	227	228	b1	0	0	
1	yri	1.41	0					
Element	BeamColumn	10072	228	67	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10073	67	229	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10074	229	230	b1	0	0	
1	yri	1.41	0					
Element	BeamColumn	10075	230	74	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10076	74	231	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10077	231	232	b1	0	0	
1	yri	1.41	0					
Element	BeamColumn	10078	232	81	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10079	61	233	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10080	233	234	b1	0	0	
1	yri	1.41	0					
Element	BeamColumn	10081	234	68	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10082	68	235	b1	0	0	
1	0	1.41	0					
Element	BeamColumn	10083	235	236	b1	0	0	
1	yri	1.41	0					

Element	BeamColumn	10084	236	75	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10085	75	237	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10086	237	238	b1	0	0
1	yri	1.41	0				
Element	BeamColumn	10087	238	82	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10088	62	239	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10089	239	240	b1	0	0
1	yri	1.41	0				
Element	BeamColumn	10090	240	69	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10091	69	241	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10092	241	242	b1	0	0
1	yri	1.41	0				
Element	BeamColumn	10093	242	76	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10094	76	243	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10095	243	244	b1	0	0
1	yri	1.41	0				
Element	BeamColumn	10096	244	83	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10097	63	245	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10098	245	246	b1	0	0
1	yro	1.41	0				
Element	BeamColumn	10099	246	70	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10100	70	247	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10101	247	248	b1	0	0
1	yro	1.41	0				
Element	BeamColumn	10102	248	77	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10103	77	249	b1	0	0
1	0	1.41	0				
Element	BeamColumn	10104	249	250	b1	0	0
1	yro	1.41	0				
Element	BeamColumn	10105	250	84	b1	0	0
1	0	1.41	0				

//Element	Truss	Tag?	I?	J?	MatTag?	Area?	GeoK?	Out?
FEFCase?	Fac?	E_Gp?	Force_Gp?					
Element	Truss	999	29	37	steel	100	0	0
Element	Truss	998	36	30	steel	100	0	0
Element	Truss	997	36	44	steel	100	0	0

Element	Truss	996	43	37	steel	100	0	0
Element	Truss	995	57	65	steel	100	0	0
Element	Truss	994	58	66	steel	100	0	0
Element	Truss	993	59	67	steel	100	0	0
Element	Truss	992	60	68	steel	100	0	0
Element	Truss	991	61	69	steel	100	0	0
Element	Truss	990	62	70	steel	100	0	0
Element	Truss	989	64	72	steel	100	0	0
Element	Truss	988	65	73	steel	100	0	0
Element	Truss	987	66	74	steel	100	0	0
Element	Truss	986	67	75	steel	100	0	0
Element	Truss	985	68	76	steel	100	0	0
Element	Truss	984	69	77	steel	100	0	0
Element	Truss	983	71	79	steel	100	0	0
Element	Truss	982	72	80	steel	100	0	0
Element	Truss	981	73	81	steel	100	0	0
Element	Truss	980	74	82	steel	100	0	0
Element	Truss	979	75	83	steel	100	0	0
Element	Truss	978	76	84	steel	100	0	0
Element	Truss	977	58	64	steel	100	0	0
Element	Truss	976	59	65	steel	100	0	0
Element	Truss	975	60	66	steel	100	0	0
Element	Truss	974	61	67	steel	100	0	0
Element	Truss	973	62	68	steel	100	0	0
Element	Truss	972	63	69	steel	100	0	0
Element	Truss	971	65	71	steel	100	0	0
Element	Truss	970	66	72	steel	100	0	0
Element	Truss	969	67	73	steel	100	0	0
Element	Truss	968	68	74	steel	100	0	0
Element	Truss	967	69	75	steel	100	0	0
Element	Truss	966	70	76	steel	100	0	0
Element	Truss	965	72	78	steel	100	0	0
Element	Truss	964	73	79	steel	100	0	0
Element	Truss	963	74	80	steel	100	0	0
Element	Truss	962	75	81	steel	100	0	0
Element	Truss	961	76	82	steel	100	0	0
Element	Truss	960	77	83	steel	100	0	0

----End
 Command----
 //Stop
 STOP

Input

\$A. Program Starting & Problem Title 7F DRAIN2D+x 向分析輸入檔

\$*****

START cx (damping =5% ,unit KN-M)

\$*****

\$B. Structure Geometry Information

\$B1. Control Information

\$ NN -Number of nodes in structure

\$ NC -Number of control nodes(B2)

\$ NC1 -Number of commands for generating nodes coordinates(B3)

\$ NC2 -Number of commands for specifying nodes with zero displacement(B4)

\$ NC3 -Number of commands for specifying nodes with identical displacement(B5)

\$ NC4 -Number of commands for specifying lumped masses at nodes(B6)

\$ NEG -Number of different groups of elements (E)

\$ ICHK-Data checking code

\$ ICHK= 0:execuated

\$ =-1:execuated & only one element data block

\$ > 0:data check and process natural frequency

\$ i.e ICHK=2 will process first 2 mode's natural frequency

\$ ISV -Structure stiffness storage code

\$ ISV = 0:save in core

\$ = 1:save on secondary scratch storage

\$ MEM -Blank COMMON length setting

\$ IFK -Structure stiffness storage code

\$ IFK = 0:tangent stiffness

\$ = 1:constant stiffness

\$*****

\$ NN NC NC1 NC2 NC3 NC4 NEG ICHK ISV MEM IFK
ITER

440 16 8 19 7 7 3 2 0 0 1 500

\$*****

\$B2. Control Node Coordinates

\$ Ni -Control node no. ,in any sequence

\$ Xi -X coordinate of node

\$ Yi -Y coordinate of node

\$*****

\$ Ni	Xi	Yi
1	0	0
56	0	6
111	0	10
166	0	16
221	0	20
276	0	24
331	0	29
386	0	35
55	432	0
110	432	6
165	432	10

220	432	16
275	432	20
330	432	24
385	432	29
440	432	35

\$B3. Commands for Straight Line Generation of Node Coordinates

\$ N1 -Node no. at beginning
\$ N2 -Node no. at ending
\$ NG -Number of nodes to be generated
\$ dN -Increment of node no. ,default value= 1
\$ dS -Increment spacing
\$ dS >=1 :spacing= dS
\$ dS < 1 :spacing= dS*L
\$ dS =0 :spacing= L/(NG+1) ,equal spacing & automatically

\$	N1	N2	NG	dN	dS
	1	55	53	1	
	56	110	53	1	
	111	165	53	1	
	166	220	53	1	
	221	275	53	1	
	276	330	53	1	
	331	385	53	1	
	386	440	53	1	

\$B4. Commands for Nodes with Zero Displacement

\$ N1 -Node no. ,or no. at beginning
\$ IRX -Restraint code for X-displacement
\$ IRY -Restraint code for Y-displacement
\$ IRZ -Restraint code for Z-rotation
\$ IR= 0:active D.O.F.
\$ IR= 1:inactive D.O.F. ,displacement & rotation will zero
\$ N2 -Node no. at ending
\$ dN -Increment of node no. ,default value= 1

\$	N1	IRX	IRY	IRZ	N2	dN
	1	1	1	1	55	1
	93	1	1	1		
	95	1	1	1		
	97	1	1	1		
	99	1	1	1		
	148	1	1	1		
	150	1	1	1		
	152	1	1	1		
	154	1	1	1		
	175	1	1	1	180	1
	203	1	1	1	209	1
	230	0	1	0	235	1

```

258    1    1    1 264    1
285    0    1    0 290    1
313    0    1    0 319    1
340    0    1    0 345    1
368    0    1    0 374    1
395    0    1    0 400    1
423    0    1    0 429    1
$*****
*****
$B5.  Commands for Nodes with Identical Displacement
$      ICC -Constraint code
$      ICC= 1:X-displacement
$      = 2:Y-displacement
$      = 3:Z-rotation
$      NT  -Total numbers of node with identical displacement ,NT <= 14
$      Ni  -Node no. with identical displacement
$ ICC  NT   N1   N2   N3   N4   N5   N6   N7   N8   N9  N10
N11  N12  N13  N14
      1    6   56   64   72   81   91  101
      1    6  111  119  127  136  146  156
      1    6  166  174  182  191  201  211
      1    6  221  229  237  246  256  266
      1    6  276  284  292  301  311  321
      1    6  331  339  347  356  366  376
      1    6  386  394  402  411  421  431
$*****
*****
$B6.  Commands for Lumped Masses at Nodes
$      N1  -Node no. ,or no. at beginning
$      mX  -Mass associated with X-displacement
$      mY  -Mass associated with Y-displacement
$      mZ  -Mass associated with Z-Rotary inertia
$      N2  -Node no. at ending
$      dN  -Increment of node no. ,default value= 1
$      Fac -Modify factor by which masses will divided ,default value= previous
$*****
*****
$  N1          mX          mY          mZ   N2   dN          Fac
   56         3369          0           0           1
  111         6339          0           0           1
  166         2469          0           0           1
  221         2842          0           0           1
  276         3687          0           0           1
  331         4069          0           0           1
  386         3934          0           0           1
$*****
*****
$C. Load Information
$C1.  Load Control Information
$      ILD -Static load code
$      ILD= 0:no static load
$      = 1:static load exist
$      NC  -Number of commands for specifying static load at nodes(C2)

```

\$ NT -Total number of time step in the dynamic analysis
 \$ dT -Interval of integration time step ,sec
 \$ fXa -ground acceleration magnificated factor for X-dir.
 \$ fXt -time scale factor for X-dir. ,default value= 1.0
 \$ fYa -ground acceleration magnificated factor for Y-dir.
 \$ fYt -time scale factor for Y-dir. ,default value= 1.0
 \$ maxD-Absolute value of maximum displacement permitted

\$*****

\$ ILD	NC	NT	dT	fXa	fXt	fYa	fYt
maxD							
2	7	0	0.02	1.0	0.0	0.0	0.0

\$*****

\$C2. Commands for Static Loads Applied Directly at Nodes

\$ N1 -Node no. ,or no. at beginning
 \$ FX -Load in X-dir.
 \$ FY -Load in Y-dir.
 \$ MZ -Moment load about Z-dir.
 \$ N2 -Node no. at ending
 \$ dN -Increment of node no. ,default value= 1

\$*****

\$ N1	FX	FY	MZ	N2	dN
56		-648		110	1
111		-1219		165	1
166		-577		220	1
221		-664		275	1
276		-861		330	1
331		-950		385	1
386		-919		440	1

\$*****

\$C2(b). Nonlinear Static Loading Information

\$ NPAT-Number of nonlinear static loading patterns
 \$ CASE-Number of loading combination for nonlinear static load

\$*****

\$NPAT CASE

1 1

\$*****

\$C2(c). Nonlinear Static Loading Pattern Information

\$ NNS -Number of command for nonlinear static nodal loads
 \$ TITLE-Pattern title

\$*****

\$ NNS PATTERN TITLE

7

\$*****

\$C2(c). Command for Nonlinear Static Loads Applied Directly at Nodes

```

$      N1  -Node no. ,or no. at beginning
$      FX  -Load in X-dir.
$      FY  -Load in Y-dir.
$      MZ  -Moment load about Z-dir.
$      N2  -Node no. at ending
$      dN  -Increment of node no. ,default value= 1
$*****
*****
$      N1      FX      FY      MZ      N2      dN
      56      317
      111      1117
      166      827
      221      1215
      276      1790
      331      2281
      386      2453
$*****
*****
$C2(d). Command for Nonlinear Static Loading Combination
$      NLC -Load combination number to be specified sequentially
$      NSTE-Number of equal load steps in the combined load
$      SFLP-Scale factors for each loading pattern ,as many as NPAT
$*****
*****
$ NLC NSTE      SFLP
      1  500      17.0
$*****
*****
$C3. Acceleration Records
$C3a. Control Information
$      NPX -Number of time-acceleration pairs in X-dir. ground motion
$      NPY -Number of time-acceleration pairs in Y-dir. ground motion
$      IP1 -Code for printing acceleration as input
$          IP1= 0:no output
$          = 1:get listing & printout
$      IP2 -Code for printing acceleration as scale & interpolated
$          IP2= 0:no output
$          = 1:get listing & printout
$      HEAD-Head of acceleration record
$*****
*****
$      NPX      NPY      IP1      IP2      TITLE
HEAD
      0      0      0      0  1994NORTHRIDGE
$
$*****
*****
$C3b. Ground Acceleration Time History in X-dir
$      tj  -Time
$      aXj -Acceleration in X-dir.
$      t1      aX1      t2      aX2      t3      aX3      t4      aX4      t5      aX5      t6
aX6
$elcentro.dat

```



```

$C3c. Ground Acceleration Time History in Y-dir
$    tj  -Time
$    aYj -Acceleration in Y-dir.
$    t1    aY1    t2    aY2    t3    aY3    t4    aY4    t5    aY5    t6
aY6
$C3d. Damping Information
$    alphah-Mass proportional damping factor
$    beta -Stiffness proportional damping factor ,for current tangent stiffness
$    beta0-Stiffness proportional damping factor ,for original elastic stiffness
$    delta-"Structural" damping factor
$    damp -damping ratio ,damp=0.05 for R.C. ,damp=0.01..0.02 for S.S.
$*****
$*****
$    alpha    beta    beta0    delta    m1    m2    damp    damp
$    0.0609    0    0.041    .00000    1    2    0.05    0.05
$*****
$*****
$D. Time History Output Specification
$D1. Control Information
$    Jt1 -Time interval for printout nodal displacement time history(D2,D3,D4)
$    Jt2 -Time interval for printout element results time history(E)
$    Jt3 -Time interval for intermediate printout of envelope
$    Time interval = Jt x dT
$    NNX -Number of nodes for which X-dir. displacement printout
$    NNY -Number of nodes for which Y-dir. displacement printout
$    NNZ -Number of nodes for which Z-dir. rotation printout
$    NPX -Number of pairs of nodes for which relative X-dir. displacement
printout
$    NPY -Number of pairs of nodes for which relative Y-dir. displacement printout
$    IP1 -Print code for nodal displacement
$    IP0 -Print code for relative nodal displacement
$    IP2 -Print code for element results
$    IP0,IP1,IP2= 0:as computation progresses
$    = 1:both IP=0 & 2
$    = 2:as re-ordered printout
$    ITS1-Tape storage code for nodal displacement & relative nodal displacement
$    ITS2-Tape storage code for element results
$    ITS1,ITS2= 0:printed but not save on tape
$    = 1:printed and save on tape
$    IENG-Code for energy time history print
$    ISEC-Code for structure section force groups in the X-direction and
Y-direction
$    RND -Nodal displacement time history plot range
$    RED -Element displacement time history plot range
$    REF -Element force time history plot range
$*****
$*****
$ Jt1 Jt2 Jt3 NNX NNY NNZ NPX NPY IP1 IP0 IP2 ITS1 ITS2
IENG ISEC RND RED REF
$    1    1    0    7    0    0    0    0    0    0    2    0    0
0    0    0    0    0
$*****
$*****

```

\$D2. List of Nodes for X-dir Displacemet Time Histories
\$ N1 N2 N3 N4 N5 N6 N7 N8 N9 N10
56 111 166 221 276 331 386

\$D3. List of Nodes for Y-dir Displacemet Time Histories
\$ N1 N2 N3 N4 N5 N6 N7 N8 N9 N10
\$ 92

\$D4. List of Nodes for Z-dir Rotation Time Histories
\$ N1 N2 N3 N4 N5 N6 N7 N8 N9 N10
\$*****

\$D5. List of Nodes for Relative X-dir Displacemet Time Histories
\$*****

\$1-Ni 1-Nj 2-Ni 2-Nj 3-Ni 3-Nj 4-Ni 4-Nj 5-Ni 5-Nj
\$*****

\$
\$ (GROUP 1):BEAM-COLUMN ELEMENTS - COLUMNS
\$ COLUMNS (1) :C3
\$E2. Beam-Column Element
\$E2a. Control Information
\$ Typ -Element type ,Typ= 2:Beam-Column Element
\$ NE -Total number of elements
\$ NKe -Number of different element stiffness types ,NKe<=40
\$ NEC -Number of different end eccentricity types ,NEC<=15
\$ NSF -Number of different yield interaction surfaces ,NSF<=40
\$ NFe -Number of different fixed end force patterns ,NFe<=35
\$ NP0 -Number of different initial element force patterns ,NP0<=30
\$*****

\$ Typ	NE	NKe	NEC	NSF	NFe	NP0
2	312	3	0	3	0	0

\$*****

\$E2b. Stiffness Type
\$ JK -Stiffness type no.
\$ E -Elastic modulus
\$ r -Ratio of strain hardening modulus ,r= E,harden/E
\$ A -Average cross sectional area
\$ I -Reference moment of inertia
\$ kii -Flexural stiffness coefficient kii
\$ kjj -Flexural stiffness coefficient kjj
\$ kij -Flexural stiffness coefficient kij
\$ Av -Effective shear areas
\$ u -Poisson's ratio
\$*****

\$ JK	E	r	A	I	kii	kjj	kij	Av	u
1	4.47E7	0.003	1	0.0833	4.0	4.0	2.0	0.000	
2	5.02E7	0.003	1	0.0833	4.0	4.0	2.0	0.000	

```

0.3
3      6.04E7      0.004      1      0.0833      4.0      4.0      2.0      0.000
0.3
$*****
$*****
$E2c. End Eccentricity
$      JEC -End eccentricity type no.
$      Xi  -X eccentricity at end i
$      Xj  -X eccentricity at end j
$      Yi  -Y eccentricity at end i
$      Yj  -Y eccentricity at end j
$ JEC      Xi      Xj      Yi      Yj
$
$E2d. Yield Interaction Surface for Cross Section
$      JSF -Yield surface no.
$      ISF -Yield surface shape code
$           ISF= 1:beam type ,without P-M interaction
$           = 2:steel column type
$           = 3:reinforced concrete column type
$      +My -Yield moment for positive curvature bending
$      -My -Yield moment for Negative curvature bending
$      Pyc -Compression yield force
$      Pyt -Tension yield force
$      rMA -Ratio of moment at balance point A ,rMA= MA/+My
$      rPA -Ratio of axial force at balance point A ,rPA= PA/Pyc
$      rMB -Ratio of moment at balance point B ,rMB= MB/-My
$      rPB -Ratio of axial force at balance point B ,rPB= PB/Pyc
$      if ISF=1 then Py ,rM ,rP inactive
$*****
$*****
$ JSF  ISF      +My      -My      Pyc      Pyt  rMA  rPA  rMB
rPB
      1      3      14826      -14826      -61643      38829 0.85 0.35 0.85 0.35
      2      3      16679      -16679      -66243      43993 0.85 0.35 0.85 0.35
      3      3      20161      -20161      -75695      54135 0.85 0.35 0.85 0.35
$*****
$*****
$E2e. Fixed End Force Patterns
$      JF  -Pattern no.
$      Iax -Axes code
$           Iax= 0:in element coordinate system
$           = 1:in global coordinate system
$      Fi  -Clamping force  Fi
$      Vi  -Clamping force  Vi
$      Mi  -Clamping moment Mi
$      Fj  -Clamping force  Fj
$      Vj  -Clamping force  Vj
$      Mj  -Clamping moment Mj
$      LRF -Live load reduce factor
$      JF  Iax      Fi      Vi      Mi      Fj      Vj
Mj      LRF
$      1      0      0      0      6.272      0      0      -6.272
$E2f. Initial Element Force Patterns

```

\$ JP0 -Pattern no.
 \$ Fi -Initial axial force Fi
 \$ Vi -Initial shear force Vi
 \$ Mi -Initial moment Mi
 \$ Fj -Initial axial force Fj
 \$ Vj -Initial shear force Vj
 \$ Mj -Initial moment Mj
 \$ JP0 Iax Fi Vi Mi Fj Vj Mj
 \$
 \$E2g. Element Generation Commands
 \$ EN -Element no. or no. at beginning
 \$ Ni -Node no. at element end i
 \$ Nj -Node no. at element end j
 \$ dN -Increment of node no. ,default value= 1
 \$ ST -Stiffness type no.
 \$ ECCE -End eccentricity type no.
 \$ YSi -Yield surface no. for element end i
 \$ YSj -Yield surface no. for element end j
 \$ GEO -Code for geometric stiffness
 \$ GEO= 0:ignored
 \$ = 1:include geometric stiffness
 \$ THP -Time history output code
 \$ THP= 0:not require
 \$ = 1:require printout
 \$ FDD -Fixed end force pattern no. for static dead load
 \$ FDL -Fixed end force pattern no. for static live load
 \$ SDD -Scale factor for FDD
 \$ SLD -Scale factor for FLD
 \$ IFP -Initial force pattern no.
 \$ SIF -Scale factor for IFP
 \$ IENG-Elastic and inelastic strain energy group number
 \$ ISEC-Structure section force group number
 \$*****
 \$*****

\$	EN	Ni	Nj	dN	ST	ECCE	YSi	YSj	GEO	THP	FDD	FLD
SDD	SLD	IFP	SIF	IENG	ISEC							
\$C3												
	1	1	56	1	3	0	3	3	1	0	0	0
0	0	0	0									
	37	37	92	0	3	0	3	3	1	0	0	0
0	0	0	0									
	38	39	94	0	3	0	3	3	1	0	0	0
0	0	0	0									
	39	41	96	0	3	0	3	3	1	0	0	0
0	0	0	0									
	40	43	98	0	3	0	3	3	1	0	0	0
0	0	0	0									
	41	45	100	1	3	0	3	3	1	0	0	0
0	0	0	0									
	88	92	147	0	3	0	3	3	1	0	0	0
0	0	0	0									
	89	94	149	0	3	0	3	3	1	0	0	0
0	0	0	0									

0	90	96	151	0	3	0	3	3	1	0	0	0	0
0	0	0	0										
0	91	98	153	0	3	0	3	3	1	0	0	0	0
0	0	0	0										
0	92	100	155	1	3	0	3	3	1	0	0	0	0
0	0	0	0										
0	102	110	165	0	3	0	3	3	1	0	0	0	0
0	0	0	0										
0	103	111	166	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	111	119	174	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	112	126	181	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	133	147	202	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	134	155	210	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	153	174	229	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	154	181	236	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	175	202	257	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	176	210	265	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	195	229	284	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	196	236	291	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	217	257	312	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	218	265	320	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	228	275	330	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	229	276	331	1	1	0	1	1	1	0	0	0	0
0	0	0	0										
0	237	284	339	0	1	0	1	1	1	0	0	0	0
0	0	0	0										
0	238	291	346	1	1	0	1	1	1	0	0	0	0
0	0	0	0										
0	259	312	367	0	1	0	1	1	1	0	0	0	0
0	0	0	0										
0	260	320	375	1	1	0	1	1	1	0	0	0	0
0	0	0	0										
0	279	339	394	0	1	0	1	1	1	0	0	0	0
0	0	0	0										
0	280	346	401	1	1	0	1	1	1	0	0	0	0
0	0	0	0										
0	301	367	422	0	1	0	1	1	1	0	0	0	0
0	0	0	0										
0	302	375	430	1	1	0	1	1	1	0	0	0	0

```

0      0      0      0
  312  385  440      0      1      0      1      1      1      0      0      0      0
0      0      0      0
$*****
$
$ (GROUP 2):BEAM-COLUMN ELEMENTS - BEAM 2F~4F
$ COLUMNS (1) :C3
$E2. Beam-Column Element
$E2a. Control Information
$   Typ -Element type ,Typ= 2:Beam-Column Element
$   NE  -Total number of elements
$   NKe -Number of different element stiffness types ,NKe<=40
$   NEC -Number of different end eccentricity types ,NEC<=15
$   NSF -Number of different yield interaction surfaces ,NSF<=40
$   NFe -Number of different fixed end force patterns ,NFe<=35
$   NP0 -Number of different initial element force patterns ,NP0<=30
$*****
$*****
$ Typ  NE  NKe  NEC  NSF  NFe  NP0
    2  116   4   0   4   20   0
$*****
$*****
$E2b. Stiffness Type
$   JK  -Stiffness type no.
$   E   -Elastic modulus
$   r   -Ratio of strain hardening modulus ,r= Eharden/E
$   A   -Average cross sectional area
$   I   -Reference moment of inertia
$   kii -Flexural stiffness coefficient kii
$   kjj -Flexural stiffness coefficient kjj
$   kij -Flexural stiffness coefficient kij
$   Av  -Effective shear areas
$   u   -Poisson's ratio
$*****
$*****
$ JK      E      r      A      I  kii  kjj  kij      Av
$
$   1  2.97E+7      0.002      0.60      0.0500  4.0  4.0  2.0      0.000
0.3
$   2  3.22E+7      0.003      0.60      0.0500  4.0  4.0  2.0      0.000
0.3
$   3  3.73E+7      0.004      0.60      0.0500  4.0  4.0  2.0      0.000
0.3
$   4  3.77E+7      0.004      0.65      0.0542  4.0  4.0  2.0      0.000
0.3
$*****
$*****
$E2c. End Eccentricity
$   JEC -End eccentricity type no.
$   Xi  -X eccentricity at end i
$   Xj  -X eccentricity at end j

```

\$ Yi -Y eccentricity at end i
 \$ Yj -Y eccentricity at end j
 \$ JEC Xi Xj Yi Yj
 \$
 \$E2d. Yield Interaction Surface for Cross Section
 \$ JSF -Yield surface no.
 \$ ISF -Yield surface shape code
 \$ ISF= 1:beam type ,without P-M interaction
 \$ = 2:steel column type
 \$ = 3:reinforced concrete column type
 \$ +My -Yield moment for positive curvature bending
 \$ -My -Yield moment for Negative curvature bending
 \$ Pyc -Compression yield force
 \$ Pyt -Tension yield force
 \$ rMA -Ratio of moment at balance point A ,rMA= MA/+My
 \$ rPA -Ratio of axial force at balance point A ,rPA= PA/Pyc
 \$ rMB -Ratio of moment at balance point B ,rMB= MB/-My
 \$ rPB -Ratio of axial force at balance point B ,rPB= PB/Pyc
 \$ if ISF=1 then Py ,rM ,rP inactive
 \$*****
 \$*****

\$ JSF	ISF	+My	-My	Pyc	Pyt	rMA	rPA	rMB	rPB
1	3	6819	-6819	-33270	18100	0.85	0.35	0.85	0.35
2	3	7323	-7323	-34410	19450	0.85	0.35	0.85	0.35
3	3	8359	-8359	-36970	22110	0.85	0.35	0.85	0.35
4	3	9141	-9141	-39583	23795	0.85	0.35	0.85	0.35

 \$*****
 \$*****
 \$E2e. Fixed End Force Patterns
 \$ JF -Pattern no.
 \$ Iax -Axes code
 \$ Iax= 0:in element coordinate system
 \$ = 1:in global coordinate system
 \$ Fi -Clamping force Fi
 \$ Vi -Clamping force Vi
 \$ Mi -Clamping moment Mi
 \$ Fj -Clamping force Fj
 \$ Vj -Clamping force Vj
 \$ Mj -Clamping moment Mj
 \$ LRF -Live load reduce factor

\$ JF	Iax	Fi	Vi	Mi	Fj	Vj
Mj	LRF					
SLL						
1	0	0	55.6	74.2	0	55.6
2	0	0	32.7	43.6	0	32.7
3	0	0	78.5	104.6	0	78.5
4	0	0	39.2	52.3	0	39.2
5	0	0	55.7	74.3	0	55.7
6	0	0	78.5	104.6	0	78.5
7	0	0	68.7	91.6	0	68.7
8	0	0	29.4	39.2	0	29.4
9	0	0	23.1	30.7	0	23.1

10	0	0	39.2	52.3	0	39.2	-52.3
\$DL							
11	0	0	418.3	557.7	0	418.3	-557.7
12	0	0	245.8	327.7	0	245.8	-327.7
13	0	0	590.2	786.9	0	590.2	-786.9
14	0	0	295.1	393.4	0	295.1	-393.4
15	0	0	314.4	419.1	0	314.4	-419.1
16	0	0	442.6	590.2	0	442.6	-590.2
17	0	0	387.3	516.4	0	387.3	-516.4
18	0	0	165.9	221.3	0	165.9	-221.3
19	0	0	309.4	412.5	0	309.4	-412.5
20	0	0	526.6	702.1	0	526.6	-702.1

\$E2f. Initial Element Force Patterns

\$ JP0 -Pattern no.
 \$ Fi -Initial axial force Fi
 \$ Vi -Initial shear force Vi
 \$ Mi -Initial moment Mi
 \$ Fj -Initial axial force Fj
 \$ Vj -Initial shear force Vj
 \$ Mj -Initial moment Mj
 \$ JP0 Iax Fi Vi Mi Fj Vj Mj

\$E2g. Element Generation Commands

\$ EN -Element no. or no. at beginning
 \$ Ni -Node no. at element end i
 \$ Nj -Node no. at element end j
 \$ dN -Increment of node no. ,default value= 1
 \$ ST -Stiffness type no.
 \$ ECCE -End eccentricity type no.
 \$ YSi -Yield surface no. for element end i
 \$ YSj -Yield surface no. for element end j
 \$ GEO -Code for geometric stiffness
 \$ GEO= 0:ignored
 \$ = 1:include geometric stiffness
 \$ THP -Time history output code
 \$ THP= 0:not require
 \$ = 1:require printout
 \$ FDD -Fixed end force pattern no. for static dead load
 \$ FDL -Fixed end force pattern no. for static live load
 \$ SDD -Scale factor for FDD
 \$ SLD -Scale factor for FLD
 \$ IFP -Initial force pattern no.
 \$ SIF -Scale factor for IFP
 \$ IENG-Elastic and inelastic strain energy group number
 \$ ISEC-Structure section force group number

\$*****

\$ EN Ni Nj dN ST ECCE YSi YSj GEO THP FDD FLD
 SDD SLD IFP SIF IENG ISEC

\$C3

1	56	57	0	3	0	3	3	1	1	11	1	1
1	0	0	0									
2	57	58	0	3	0	3	3	1	0	11	1	1

1	0	0	0										
	3	62	63	0	3	0	3	3	1	0	11	1	1
1	0	0	0										
	4	64	65	0	3	0	3	3	1	0	12	2	1
1	0	0	0										
	5	65	66	0	3	0	3	3	1	0	12	2	1
1	0	0	0										
	6	66	67	0	3	0	3	3	1	0	12	2	1
1	0	0	0										
	7	67	68	0	3	0	3	3	1	0	12	2	1
1	0	0	0										
	8	68	69	0	3	0	3	3	1	0	0	0	1
1	0	0	0										
	9	69	70	0	3	0	3	3	1	0	0	0	1
1	0	0	0										
	10	70	71	0	3	0	3	3	1	0	12	2	1
1	0	0	0										
	11	72	73	0	3	0	3	3	1	0	13	3	1
1	0	0	0										
	12	73	74	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	13	74	75	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	14	75	76	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	15	76	77	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	16	77	78	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	17	78	79	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	18	79	80	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	19	81	82	0	3	0	3	3	1	0	11	1	1
1	0	0	0										
	20	82	83	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	21	83	84	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	22	84	85	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	23	85	86	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	24	86	87	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	25	87	88	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	26	88	89	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	27	89	90	0	3	0	3	3	1	0	14	4	1
1	0	0	0										
	28	91	92	0	3	0	3	3	1	0	11	1	1
1	0	0	0										

	29	101	102	0	3	0	3	3	1	0	12	2	1
1	0	0	0										
	30	102	103	0	3	0	3	3	1	0	0	0	1
1	0	0	0										
	31	103	104	0	3	0	3	3	1	0	0	0	1
1	0	0	0										
	32	104	105	0	3	0	3	3	1	0	0	0	1
1	0	0	0										
	33	105	106	0	3	0	3	3	1	0	0	0	1
1	0	0	0										
	34	106	107	0	3	0	3	3	1	0	0	0	1
1	0	0	0										
	35	107	108	0	3	0	3	3	1	0	0	0	1
1	0	0	0										
	36	108	109	0	3	0	3	3	1	0	0	0	1
1	0	0	0										
	37	109	110	0	3	0	3	3	1	0	0	0	1
1	0	0	0										
	38	111	112	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	39	112	113	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	40	113	114	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	41	114	115	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	42	115	116	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	43	116	117	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	44	117	118	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	45	119	120	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	46	120	121	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	47	121	122	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	48	122	123	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	49	123	124	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	50	124	125	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	51	125	126	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	52	127	128	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	53	128	129	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	54	129	130	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	55	130	131	0	2	0	2	2	1	0	15	5	1

1	0	0	0										
	56	131	132	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	57	132	133	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	58	133	134	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	59	134	135	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	60	136	137	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	61	137	138	0	2	0	2	2	1	0	15	5	1
1	0	0	0										
	62	138	139	0	2	0	2	2	1	0	16	6	1
1	0	0	0										
	63	139	140	0	2	0	2	2	1	0	16	6	1
1	0	0	0										
	64	140	141	0	2	0	2	2	1	0	16	6	1
1	0	0	0										
	65	141	142	0	2	0	2	2	1	0	16	6	1
1	0	0	0										
	66	142	143	0	2	0	2	2	1	0	16	6	1
1	0	0	0										
	67	143	144	0	2	0	2	2	1	0	16	6	1
1	0	0	0										
	68	144	145	0	2	0	2	2	1	0	16	6	1
1	0	0	0										
	69	146	147	0	2	0	2	2	1	0	17	7	1
1	0	0	0										
	70	147	149	0	2	0	2	2	1	0	17	7	1
1	0	0	0										
	71	149	151	0	2	0	2	2	1	0	17	7	1
1	0	0	0										
	72	151	153	0	2	0	2	2	1	0	17	7	1
1	0	0	0										
	73	153	155	0	2	0	2	2	1	0	17	7	1
1	0	0	0										
	74	156	157	0	2	0	2	2	1	0	18	8	1
1	0	0	0										
	75	157	158	0	2	0	2	2	1	0	18	8	1
1	0	0	0										
	76	158	159	0	2	0	2	2	1	0	18	8	1
1	0	0	0										
	77	159	160	0	2	0	2	2	1	0	18	8	1
1	0	0	0										
	78	160	161	0	2	0	2	2	1	0	18	8	1
1	0	0	0										
	79	161	162	0	2	0	2	2	1	0	18	8	1
1	0	0	0										
	80	162	163	0	2	0	2	2	1	0	18	8	1
1	0	0	0										
	81	163	164	0	2	0	2	2	1	0	18	8	1
1	0	0	0										

1	82	164	165	0	2	0	2	2	1	0	18	8	1
1	0	0	0										
1	83	166	167	0	2	0	2	2	1	0	19	9	1
1	0	0	0										
1	84	167	168	0	2	0	2	2	1	0	19	9	1
1	0	0	0										
1	85	168	169	0	2	0	2	2	1	0	19	9	1
1	0	0	0										
1	86	169	170	0	2	0	2	2	1	0	19	9	1
1	0	0	0										
1	87	170	171	0	2	0	2	2	1	0	19	9	1
1	0	0	0										
1	88	171	172	0	2	0	2	2	1	0	19	9	1
1	0	0	0										
1	89	172	173	0	2	0	2	2	1	0	19	9	1
1	0	0	0										
1	90	182	183	0	2	0	2	2	1	0	20	10	1
1	0	0	0										
1	91	183	184	0	2	0	2	2	1	0	20	10	1
1	0	0	0										
1	92	184	185	0	2	0	2	2	1	0	20	10	1
1	0	0	0										
1	93	185	186	0	2	0	2	2	1	0	20	10	1
1	0	0	0										
1	94	186	187	0	2	0	2	2	1	0	20	10	1
1	0	0	0										
1	95	187	188	0	2	0	2	2	1	0	20	10	1
1	0	0	0										
1	96	188	189	0	2	0	2	2	1	0	20	10	1
1	0	0	0										
1	97	189	190	0	2	0	2	2	1	0	20	10	1
1	0	0	0										
1	98	191	192	0	2	0	2	2	1	0	20	10	1
1	0	0	0										
1	99	192	193	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	100	193	194	0	2	0	2	2	1	0	20	10	1
1	0	0	0										
1	101	194	195	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	102	195	196	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	103	196	197	0	2	0	2	2	1	0	20	10	1
1	0	0	0										
1	104	197	198	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	105	198	199	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	106	199	200	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	107	201	202	0	2	0	2	2	1	0	20	10	1
1	0	0	0										
1	108	211	212	0	2	0	2	2	1	0	20	10	1

1	0	0	0										
	109	212	213	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
	110	213	214	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
	111	214	215	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
	112	215	216	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
	113	216	217	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
	114	217	218	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
	115	218	219	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
	116	219	220	0	2	0	2	2	1	0	0	0	1
1	0	0	0										

\$*****

\$

\$ (GROUP 3):BEAM-COLUMN ELEMENTS - BEAM 5F~RF

\$ COLUMNS (1) :C3

\$E2. Beam-Column Element

\$E2a. Control Information

\$ Typ -Element type ,Typ= 2:Beam-Column Element

\$ NE -Total number of elements

\$ NKe -Number of different element stiffness types ,NKe<=40

\$ NEC -Number of different end eccentricity types ,NEC<=15

\$ NSF -Number of different yield interaction surfaces ,NSF<=40

\$ NFe -Number of different fixed end force patterns ,NFe<=35

\$ NP0 -Number of different initial element force patterns ,NP0<=30

\$*****

\$ Typ	NE	NKe	NEC	NSF	NFe	NP0
2	188	4	0	4	20	0

\$*****

\$E2b. Stiffness Type

\$ JK -Stiffness type no.

\$ E -Elastic modulus

\$ r -Ratio of strain hardening modulus ,r= E,harden/E

\$ A -Average cross sectional area

\$ I -Reference moment of inertia

\$ kii -Flexural stiffness coefficient kii

\$ kjj -Flexural stiffness coefficient kjj

\$ kij -Flexural stiffness coefficient kij

\$ Av -Effective shear areas

\$ u -Poisson's ratio

\$*****

\$ JK	E	r	A	I	kii	kjj	kij	Av	u

\$

0.3	1	2.97E+7	0.002	0.60	0.0500	4.0	4.0	2.0	0.000
0.3	2	3.22E+7	0.003	0.60	0.0500	4.0	4.0	2.0	0.000
0.3	3	3.73E+7	0.004	0.60	0.0500	4.0	4.0	2.0	0.000
0.3	4	3.77E+7	0.004	0.65	0.0542	4.0	4.0	2.0	0.000

\$E2c. End Eccentricity

\$ JEC -End eccentricity type no.
\$ Xi -X eccentricity at end i
\$ Xj -X eccentricity at end j
\$ Yi -Y eccentricity at end i
\$ Yj -Y eccentricity at end j
\$ JEC Xi Xj Yi Yj
\$

\$E2d. Yield Interaction Surface for Cross Section

\$ JSF -Yield surface no.
\$ ISF -Yield surface shape code
\$ ISF= 1:beam type ,without P-M interaction
\$ = 2:steel column type
\$ = 3:reinforced concrete column type
\$ +My -Yield moment for positive curvature bending
\$ -My -Yield moment for Negative curvature bending
\$ Pyc -Compression yield force
\$ Pyt -Tension yield force
\$ rMA -Ratio of moment at balance point A ,rMA= MA/+My
\$ rPA -Ratio of axial force at balance point A ,rPA= PA/Pyc
\$ rMB -Ratio of moment at balance point B ,rMB= MB/-My
\$ rPB -Ratio of axial force at balance point B ,rPB= PB/Pyc
\$ if ISF=1 then Py ,rM ,rP inactive
\$ *****

	\$ JSF	ISF	+My	-My	Pyc	Pyt	rMA	rPA	rMB	rPB
1	3	6819	-6819	-33270	18100	0.85	0.35	0.85	0.35	
2	3	7323	-7323	-34410	19450	0.85	0.35	0.85	0.35	
3	3	8359	-8359	-36970	22110	0.85	0.35	0.85	0.35	
4	3	9141	-9141	-39583	23795	0.85	0.35	0.85	0.35	

\$E2e. Fixed End Force Patterns

\$ JF -Pattern no.
\$ Iax -Axes code
\$ Iax= 0:in element coordinate system
\$ = 1:in global coordinate system
\$ Fi -Clamping force Fi
\$ Vi -Clamping force Vi
\$ Mi -Clamping moment Mi
\$ Fj -Clamping force Fj
\$ Vj -Clamping force Vj

\$ Mj -Clamping moment Mj
 \$ LRF -Live load reduce factor
 \$ JF Iax Fi Vi Mi Fj Vj
 Mj LRF
 \$LL
 1 0 0 55.7 74.3 0 55.7 -74.3
 2 0 0 78.5 104.6 0 78.5 -104.6
 3 0 0 55.7 74.3 0 55.7 -74.3
 4 0 0 78.4 104.6 0 78.4 -104.6
 5 0 0 29.4 39.2 0 29.4 -39.2
 6 0 0 55.7 74.3 0 55.7 -74.3
 7 0 0 78.5 104.6 0 78.5 -104.6
 8 0 0 29.4 39.2 0 29.4 -39.2
 9 0 0 32.7 43.6 0 32.7 -43.6
 10 0 0 29.4 39.2 0 29.4 39.2
 \$DL
 11 0 0 267.6 356.7 0 267.6 -356.7
 12 0 0 376.7 502.3 0 376.7 -502.3
 13 0 0 182.8 243.8 0 182.8 -243.8
 14 0 0 260.5 347.4 0 260.5 -347.4
 15 0 0 96.5 128.7 0 96.5 -128.7
 16 0 0 201.8 269.0 0 201.8 -269.0
 17 0 0 284.1 378.8 0 284.1 -378.8
 18 0 0 97.7 130.3 0 97.7 -130.3
 19 0 0 108.1 144.7 0 108.1 -144.7
 20 0 0 97.7 130.3 0 97.7 -130.3
 \$E2f. Initial Element Force Patterns
 \$ JP0 -Pattern no.
 \$ Fi -Initial axial force Fi
 \$ Vi -Initial shear force Vi
 \$ Mi -Initial moment Mi
 \$ Fj -Initial axial force Fj
 \$ Vj -Initial shear force Vj
 \$ Mj -Initial moment Mj
 \$ JP0 Iax Fi Vi Mi Fj Vj Mj
 \$
 \$E2g. Element Generation Commands
 \$ EN -Element no. or no. at beginning
 \$ Ni -Node no. at element end i
 \$ Nj -Node no. at element end j
 \$ dN -Increment of node no. ,default value= 1
 \$ ST -Stiffness type no.
 \$ ECCE -End eccentricity type no.
 \$ YSi -Yield surface no. for element end i
 \$ YSj -Yield surface no. for element end j
 \$ GEO -Code for geometric stiffness
 \$ GEO= 0:ignored
 \$ = 1:include geometric stiffness
 \$ THP -Time history output code
 \$ THP= 0:not require
 \$ = 1:require printout
 \$ FDD -Fixed end force pattern no. for static dead load
 \$ FDL -Fixed end force pattern no. for static live load

\$ SDD -Scale factor for FDD
 \$ SLD -Scale factor for FLD
 \$ IFP -Initial force pattern no.
 \$ SIF -Scale factor for IFP
 \$ IENG-Elastic and inelastic strain energy group number
 \$ ISEC-Structure section force group number

\$*****

	EN	Ni	Nj	dN	ST	ECCE	YSi	YSj	GEO	THP	FDD	FLD
SDD	SLD	IFP	SIF	IENG	ISEC							

\$C3

	1	221	222	0	2	0	2	2	1	0	11	1	1
1	0	0	0										
	2	222	223	0	2	0	2	2	1	0	11	1	1
1	0	0	0										
	3	223	224	0	2	0	2	2	1	0	11	1	1
1	0	0	0										
	4	224	225	0	2	0	2	2	1	0	11	1	1
1	0	0	0										
	5	225	226	0	2	0	2	2	1	0	11	1	1
1	0	0	0										
	6	226	227	0	2	0	2	2	1	0	11	1	1
1	0	0	0										
	7	227	228	0	2	0	2	2	1	0	11	1	1
1	0	0	0										
	8	237	238	0	2	0	2	2	1	0	12	2	1
1	0	0	0										
	9	238	239	0	2	0	2	2	1	0	12	2	1
1	0	0	0										
	10	239	240	0	2	0	2	2	1	0	12	2	1
1	0	0	0										
	11	240	241	0	2	0	2	2	1	0	12	2	1
1	0	0	0										
	12	241	242	0	2	0	2	2	1	0	12	2	1
1	0	0	0										
	13	242	243	0	2	0	2	2	1	0	12	2	1
1	0	0	0										
	14	243	244	0	2	0	2	2	1	0	12	2	1
1	0	0	0										
	15	244	245	0	2	0	2	2	1	0	12	2	1
1	0	0	0										
	16	246	247	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
	17	247	248	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
	18	248	249	0	2	0	2	2	1	0	11	1	1
1	0	0	0										
	19	249	250	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
	20	250	251	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
	21	251	252	0	2	0	2	2	1	0	11	1	1
1	0	0	0										

1	22	252	253	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	23	253	254	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	24	254	255	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	25	256	257	0	2	0	2	2	1	0	12	2	1
1	0	0	0										
1	26	266	267	0	2	0	2	2	1	0	11	1	1
1	0	0	0										
1	27	267	268	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	28	268	269	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	29	269	270	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	30	270	271	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	31	271	272	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	32	272	273	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	33	273	274	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	34	274	275	0	2	0	2	2	1	0	0	0	1
1	0	0	0										
1	35	276	277	0	1	0	1	1	1	0	13	3	1
1	0	0	0										
1	36	277	278	0	1	0	1	1	1	0	13	3	1
1	0	0	0										
1	37	278	279	0	1	0	1	1	1	0	13	3	1
1	0	0	0										
1	38	279	280	0	1	0	1	1	1	0	13	3	1
1	0	0	0										
1	39	280	281	0	1	0	1	1	1	0	13	3	1
1	0	0	0										
1	40	281	282	0	1	0	1	1	1	0	13	3	1
1	0	0	0										
1	41	282	283	0	1	0	1	1	1	0	13	3	1
1	0	0	0										
1	42	292	293	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
1	43	293	294	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
1	44	294	295	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
1	45	295	296	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
1	46	296	297	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
1	47	297	298	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
1	48	298	299	0	1	0	1	1	1	0	14	4	1

1	0	0	0										
	49	299	300	0	1	0	1	1	1	0	14	4	1
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	50	301	302	0	1	0	1	1	1	0	14	4	1
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	51	302	303	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	52	303	304	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	53	304	305	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	54	305	306	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	55	306	307	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	56	307	308	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	57	308	309	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	58	309	310	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	59	311	312	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	60	321	322	0	1	0	1	1	1	0	15	5	1
1	0	0	0										
	61	322	323	0	1	0	1	1	1	0	15	5	1
1	0	0	0										
	62	323	324	0	1	0	1	1	1	0	15	5	1
1	0	0	0										
	63	324	325	0	1	0	1	1	1	0	15	5	1
1	0	0	0										
	64	325	326	0	1	0	1	1	1	0	15	5	1
1	0	0	0										
	65	326	327	0	1	0	1	1	1	0	15	5	1
1	0	0	0										
	66	327	328	0	1	0	1	1	1	0	15	5	1
1	0	0	0										
	67	328	329	0	1	0	1	1	1	0	15	5	1
1	0	0	0										
	68	329	330	0	1	0	1	1	1	0	15	5	1
1	0	0	0										
	69	331	332	0	1	0	1	1	1	0	16	6	1
1	0	0	0										
	70	332	333	0	1	0	1	1	1	0	16	6	1
1	0	0	0										
	71	333	334	0	1	0	1	1	1	0	16	6	1
1	0	0	0										
	72	334	335	0	1	0	1	1	1	0	16	6	1
1	0	0	0										
	73	335	336	0	1	0	1	1	1	0	16	6	1
1	0	0	0										
	74	336	337	0	1	0	1	1	1	0	16	6	1
1	0	0	0										

	75	337	338	0	1	0	1	1	1	0	16	6	1
1	0	0	0										
	76	347	348	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	77	348	349	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	78	349	350	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	79	350	351	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	80	351	352	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	81	352	353	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	82	353	354	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	83	354	355	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	84	356	357	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	85	357	358	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	86	358	359	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	87	359	360	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	88	360	361	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	89	361	362	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	90	362	363	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	91	363	364	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	92	364	365	0	1	0	1	1	1	0	17	7	1
1	0	0	0										
	93	366	367	0	1	0	1	1	1	0	17	7	1
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	94	376	377	0	1	0	1	1	1	0	18	8	1
1	0	0	0										
	95	377	378	0	1	0	1	1	1	0	18	8	1
1	0	0	0										
	96	378	379	0	1	0	1	1	1	0	18	8	1
1	0	0	0										
	97	379	380	0	1	0	1	1	1	0	18	8	1
1	0	0	0										
	98	380	381	0	1	0	1	1	1	0	18	8	1
1	0	0	0										
	99	381	382	0	1	0	1	1	1	0	18	8	1
1	0	0	0										
	100	382	383	0	1	0	1	1	1	0	18	8	1
1	0	0	0										
	101	383	384	0	1	0	1	1	1	0	18	8	1

1	0	0	0										
	102	384	385	0	1	0	1	1	1	0	18	8	1
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	103	386	387	0	1	0	1	1	1	0	19	9	1
1	0	0	0										
	104	387	388	0	1	0	1	1	1	0	19	9	1
1	0	0	0										
	105	388	389	0	1	0	1	1	1	0	19	9	1
1	0	0	0										
	106	389	390	0	1	0	1	1	1	0	19	9	1
1	0	0	0										
	107	390	391	0	1	0	1	1	1	0	19	9	1
1	0	0	0										
	108	391	392	0	1	0	1	1	1	0	19	9	1
1	0	0	0										
	109	392	393	0	1	0	1	1	1	0	19	9	1
1	0	0	0										
	110	402	403	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	111	403	404	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	112	404	405	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	113	405	406	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	114	406	407	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	115	407	408	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	116	408	409	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	117	409	410	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	118	411	412	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	119	412	413	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	120	413	414	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	121	414	415	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	122	415	416	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	123	416	417	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	124	417	418	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	125	418	419	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	126	419	420	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	127	421	422	0	1	0	1	1	1	0	14	4	1
1	0	0	0										

128	431	432	0	1	0	1	1	1	0	20	10	1
1	0	0	0									
129	432	433	0	1	0	1	1	1	0	20	10	1
1	0	0	0									
130	433	434	0	1	0	1	1	1	0	20	10	1
1	0	0	0									
131	434	435	0	1	0	1	1	1	0	20	10	1
1	0	0	0									
132	435	436	0	1	0	1	1	1	0	20	10	1
1	0	0	0									
133	436	437	0	1	0	1	1	1	0	20	10	1
1	0	0	0									
134	437	438	0	1	0	1	1	1	0	20	10	1
1	0	0	0									
135	438	439	0	1	0	1	1	1	0	20	10	1
1	0	0	0									
136	439	440	0	1	0	1	1	1	0	20	10	1
1	0	0	0									
137	229	230	0	2	0	2	2	1	0	12	2	1
1	0	0	0									
138	230	231	0	2	0	2	2	1	0	12	2	1
1	0	0	0									
139	231	232	0	2	0	2	2	1	0	12	2	1
1	0	0	0									
140	232	233	0	2	0	2	2	1	0	12	2	1
1	0	0	0									
141	233	234	0	2	0	2	2	1	0	12	2	1
1	0	0	0									
142	234	235	0	2	0	2	2	1	0	12	2	1
1	0	0	0									
143	235	236	0	2	0	2	2	1	0	12	2	1
1	0	0	0									
144	284	285	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
145	285	286	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
146	286	287	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
147	287	288	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
148	288	289	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
149	289	290	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
150	290	291	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
151	312	313	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
152	313	314	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
153	314	315	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
154	315	316	0	1	0	1	1	1	0	14	4	1

1	0	0	0										
	155	316	317	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	156	317	318	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	157	318	319	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	158	319	320	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	159	339	340	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	160	340	341	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	161	341	342	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	162	342	343	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	163	343	344	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	164	344	345	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	165	345	346	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	166	367	368	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	167	368	369	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	168	369	370	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	169	370	371	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	170	371	372	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	171	372	373	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	172	373	374	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	173	374	375	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	174	394	395	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	175	395	396	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	176	396	397	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	177	397	398	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	178	398	399	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	179	399	400	0	1	0	1	1	1	0	14	4	1
1	0	0	0										
	180	400	401	0	1	0	1	1	1	0	14	4	1
1	0	0	0										

181	422	423	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
182	423	424	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
183	424	425	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
184	425	426	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
185	426	427	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
186	427	428	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
187	428	429	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
188	429	430	0	1	0	1	1	1	0	14	4	1
1	0	0	0									
stop												



\$A. Program Starting & Problem Title 7F DRAIN2D+y 向分析輸入檔

\$*****

START cy (damping =5% ,unit KN-M)

\$*****

\$B. Structure Geometry Information

\$B1. Control Information

\$ NN -Number of nodes in structure

\$ NC -Number of control nodes(B2)

\$ NC1 -Number of commands for generating nodes coordinates(B3)

\$ NC2 -Number of commands for specifying nodes with zero displacement(B4)

\$ NC3 -Number of commands for specifying nodes with identical displacement(B5)

\$ NC4 -Number of commands for specifying lumped masses at nodes(B6)

\$ NEG -Number of different groups of elements (E)

\$ ICHK-Data checking code

\$ ICHK= 0:execuated

\$ =-1:execuated & only one element data block

\$ > 0:data check and process natural frequency

\$ i.e ICHK=2 will process first 2 mode's natural frequency

\$ ISV -Structure stiffness storage code

\$ ISV = 0:save in core

\$ = 1:save on secondary scratch storage

\$ MEM -Blank COMMON length setting

\$ IFK -Structure stiffness storage code

\$ IFK = 0:tangent stiffness

\$ = 1:constant stiffness

\$*****

\$ NN NC NC1 NC2 NC3 NC4 NEG ICHK ISV MEM IFK
ITER

432 432 0 13 14 7 3 2 0 0 1 500

\$*****

\$B2. Control Node Coordinates

\$ Ni -Control node no. ,in any sequence

\$ Xi -X coordinate of node

\$ Yi -Y coordinate of node

\$*****

\$ Ni	Xi	Yi
1	0	0
2	6	0
3	14	0
4	18	0
5	22	0
6	32	0
7	35	0
8	41	0
9	49	0
10	53	0
11	57	0

12	67	0
13	70	0
14	76	0
15	84	0
16	88	0
17	92	0
18	102	0
19	105	0
20	111	0
21	119	0
22	123	0
23	127	0
24	137	0
25	140	0
26	146	0
27	154	0
28	158	0
29	162	0
30	172	0
31	175	0
32	181	0
33	189	0
34	193	0
35	197	0
36	207	0
37	210	0
38	216	0
39	224	0
40	228	0
41	232	0
42	242	0
43	245	0
44	251	0
45	259	0
46	263	0
47	267	0
48	277	0
49	280	0
50	294	0
51	298	0
52	301	0
53	307	0
54	315	0
55	0	6
56	6	6
57	14	6
58	18	6
59	22	6
60	32	6
61	35	6
62	41	6
63	49	6
64	53	6



65	57	6
66	67	6
67	70	6
68	76	6
69	84	6
70	88	6
71	92	6
72	102	6
73	105	6
74	111	6
75	119	6
76	123	6
77	127	6
78	137	6
79	140	6
80	146	6
81	154	6
82	158	6
83	162	6
84	172	6
85	175	6
86	181	6
87	189	6
88	193	6
89	197	6
90	207	6
91	210	6
92	216	6
93	224	6
94	228	6
95	232	6
96	242	6
97	245	6
98	251	6
99	259	6
100	263	6
101	267	6
102	277	6
103	280	6
104	294	6
105	298	6
106	301	6
107	307	6
108	315	6
109	0	10
110	6	10
111	14	10
112	18	10
113	22	10
114	32	10
115	35	10
116	41	10
117	49	10



118	53	10
119	57	10
120	67	10
121	70	10
122	76	10
123	84	10
124	88	10
125	92	10
126	102	10
127	105	10
128	111	10
129	119	10
130	123	10
131	127	10
132	137	10
133	140	10
134	146	10
135	154	10
136	158	10
137	162	10
138	172	10
139	175	10
140	181	10
141	189	10
142	193	10
143	197	10
144	207	10
145	210	10
146	216	10
147	224	10
148	228	10
149	232	10
150	242	10
151	245	10
152	251	10
153	259	10
154	263	10
155	267	10
156	277	10
157	280	10
158	294	10
159	298	10
160	301	10
161	307	10
162	315	10
163	0	16
164	6	16
165	14	16
166	18	16
167	22	16
168	32	16
169	35	16
170	41	16



171	49	16
172	53	16
173	57	16
174	67	16
175	70	16
176	76	16
177	84	16
178	88	16
179	92	16
180	102	16
181	105	16
182	111	16
183	119	16
184	123	16
185	127	16
186	137	16
187	140	16
188	146	16
189	154	16
190	158	16
191	162	16
192	172	16
193	175	16
194	181	16
195	189	16
196	193	16
197	197	16
198	207	16
199	210	16
200	216	16
201	224	16
202	228	16
203	232	16
204	242	16
205	245	16
206	251	16
207	259	16
208	263	16
209	267	16
210	277	16
211	280	16
212	294	16
213	298	16
214	301	16
215	307	16
216	315	16
217	0	20
218	6	20
219	14	20
220	18	20
221	22	20
222	32	20
223	35	20



224	41	20
225	49	20
226	53	20
227	57	20
228	67	20
229	70	20
230	76	20
231	84	20
232	88	20
233	92	20
234	102	20
235	105	20
236	111	20
237	119	20
238	123	20
239	127	20
240	137	20
241	140	20
242	146	20
243	154	20
244	158	20
245	162	20
246	172	20
247	175	20
248	181	20
249	189	20
250	193	20
251	197	20
252	207	20
253	210	20
254	216	20
255	224	20
256	228	20
257	232	20
258	242	20
259	245	20
260	251	20
261	259	20
262	263	20
263	267	20
264	277	20
265	280	20
266	294	20
267	298	20
268	301	20
269	307	20
270	315	20
271	0	24
272	6	24
273	14	24
274	18	24
275	22	24
276	32	24



277	35	24
278	41	24
279	49	24
280	53	24
281	57	24
282	67	24
283	70	24
284	76	24
285	84	24
286	88	24
287	92	24
288	102	24
289	105	24
290	111	24
291	119	24
292	123	24
293	127	24
294	137	24
295	140	24
296	146	24
297	154	24
298	158	24
299	162	24
300	172	24
301	175	24
302	181	24
303	189	24
304	193	24
305	197	24
306	207	24
307	210	24
308	216	24
309	224	24
310	228	24
311	232	24
312	242	24
313	245	24
314	251	24
315	259	24
316	263	24
317	267	24
318	277	24
319	280	24
320	294	24
321	298	24
322	301	24
323	307	24
324	315	24
325	0	29
326	6	29
327	14	29
328	18	29
329	22	29



330	32	29
331	35	29
332	41	29
333	49	29
334	53	29
335	57	29
336	67	29
337	70	29
338	76	29
339	84	29
340	88	29
341	92	29
342	102	29
343	105	29
344	111	29
345	119	29
346	123	29
347	127	29
348	137	29
349	140	29
350	146	29
351	154	29
352	158	29
353	162	29
354	172	29
355	175	29
356	181	29
357	189	29
358	193	29
359	197	29
360	207	29
361	210	29
362	216	29
363	224	29
364	228	29
365	232	29
366	242	29
367	245	29
368	251	29
369	259	29
370	263	29
371	267	29
372	277	29
373	280	29
374	294	29
375	298	29
376	301	29
377	307	29
378	315	29
379	0	35
380	6	35
381	14	35
382	18	35



383	22	35
384	32	35
385	35	35
386	41	35
387	49	35
388	53	35
389	57	35
390	67	35
391	70	35
392	76	35
393	84	35
394	88	35
395	92	35
396	102	35
397	105	35
398	111	35
399	119	35
400	123	35
401	127	35
402	137	35
403	140	35
404	146	35
405	154	35
406	158	35
407	162	35
408	172	35
409	175	35
410	181	35
411	189	35
412	193	35
413	197	35
414	207	35
415	210	35
416	216	35
417	224	35
418	228	35
419	232	35
420	242	35
421	245	35
422	251	35
423	259	35
424	263	35
425	267	35
426	277	35
427	280	35
428	294	35
429	298	35
430	301	35
431	307	35
432	315	35



\$*****

\$B3. Commands for Straight Line Generation of Node Coordinates


```

$ N1 -Node no. at beginning
$ N2 -Node no. at ending
$ NG -Number of nodes to be generated
$ dN -Increment of node no. ,default value= 1
$ dS -Increment spacing
$     dS >=1 :spacing= dS
$     dS < 1 :spacing= dS*L
$     dS =0 :spacing= L/(NG+1) ,equal spacing & automatically
$*****
$*****

```

```

$ N1 N2 NG dN dS
$*****
$*****

```

\$B4. Commands for Nodes with Zero Displacement

```

$ N1 -Node no. ,or no. at beginning
$ IRX -Restraint code for X-displacement
$ IRY -Restraint code for Y-displacement
$ IRZ -Restraint code for Z-rotation
$     IR= 0:active D.O.F.
$     IR= 1:inactive D.O.F. ,displacement & rotation will zero
$ N2 -Node no. at ending
$ dN -Increment of node no. ,default value= 1
$*****
$*****

```

```

$ N1 IRX IRY IRZ N2 dN
  1   1   1   1  54   1
173   1   1   1 389  54
 14   1   1   1 392  54
179   1   1   1 395  54
182   1   1   1 398  54
185   1   1   1 401  54
 26   1   1   1 404  54
191   1   1   1 407  54
194   1   1   1 410  54
197   1   1   1 413  54
 38   1   1   1 416  54
203   1   1   1 419  54
206   1   1   1 422  54
$*****
$*****

```

\$B5. Commands for Nodes with Identical Displacement

```

$ ICC -Constraint code
$     ICC= 1:X-displacement
$     = 2:Y-displacement
$     = 3:Z-rotation
$ NT -Total numbers of node with identical displacement ,NT <= 14
$ Ni -Node no. with identical displacement
$ ICC NT N1 N2 N3 N4 N5 N6 N7 N8 N9 N10
N11 N12 N13 N14
  1  14  55  60  61  66  67  72  73  78  79  84  85
90  91  96
  1   7  55  97 102 103 105 106 108
  1  14 109

```

```

115 120
127 132 133 138 139 144 145 150
    1 7 109 151 156 157 159 160 162
    1 14 163
169 174
180 181 183 186 187 189 192 193
    1 12 163 195 198 199 201 204 205 210 211 213 214
216
    1 14 217
223 228
235 240 241 246 247 252 253 258
    1 7 217 259 264 265 267 268 270
    1 14 271
277 282
289 294 295 300 301 306 307 312
    1 7 271 313 318 319 321 322 324
    1 14 325
331 336
343 348 349 354 355 360 361 366
    1 7 325 367 372 373 375 376 378
    1 14 379
385 390
397 402 403 408 409 414 415 420
    1 7 379 421 426 427 429 430 432

```

```

$*****
*****

```

\$B6. Commands for Lumped Masses at Nodes

```

$ N1 -Node no. ,or no. at beginning
$ mX -Mass associated with X-displacement
$ mY -Mass associated with Y-displacement
$ mZ -Mass associated with Z-Rotary inertia
$ N2 -Node no. at ending
$ dN -Increment of node no. ,default value= 1
$ Fac -Modify factor by which masses will divided ,default value= previous

```

```

$*****
*****

```

\$	N1	mX	mY	mZ	N2	dN	Fac
	55	3369	0	0			1
	109	6339	0	0			1
	163	2469	0	0			1
	217	2842	0	0			1
	271	3687	0	0			1
	325	4069	0	0			1
	379	3934	0	0			1

```

$*****
*****

```

\$C. Load Information

\$C1. Load Control Information

```

$ ILD -Static load code
$     ILD= 0:no static load
$     = 1:static load exist
$ NC -Number of commands for specifying static load at nodes(C2)
$ NT -Total number of time step in the dynamic analysis

```

```

$      dT  -Interval of integration time step ,sec
$      fXa -ground acceleration magnificated factor for X-dir.
$      fXt -time scale factor for X-dir. ,default value= 1.0
$      fYa -ground acceleration magnificated factor for Y-dir.
$      fYt -time scale factor for Y-dir. ,default value= 1.0
$      maxD-Absolute value of maximum displacement permitted
$*****
*****
$ ILD    NC    NT          dT          fXa          fXt          fYa          fYt
maxD
    2      7      0          0.02          1.0          0.0          0.0          0.0
0.0
$*****
*****
$C2.  Commands for Static Loads Applied Directly at Nodes
$      N1  -Node no. ,or no. at beginning
$      FX  -Load in X-dir.
$      FY  -Load in Y-dir.
$      MZ  -Moment load about Z-dir.
$      N2  -Node no. at ending
$      dN  -Increment of node no. ,default value= 1
$*****
*****
$  N1          FX          FY          MZ  N2  dN
    55          -648          108      1
    109          -1219          162      1
    163          -577          216      1
    217          -664          270      1
    271          -861          324      1
    325          -950          378      1
    379          -919          432      1
$*****
*****
$C2(b). Nonlinear Static Loading Information
$      NPAT-Number of nonlinear static loading patterns
$      CASE-Number of loading combination for nonlinear static load
$*****
*****
$NPAT CASE
    1      1
$*****
*****
$C2(c). Nonlinear Static Loading Pattern Information
$      NNS -Number of command for nonlinear static nodal loads
$      TITLE-Pattern title
$*****
*****
$ NNS          PATTERN TITLE
    7
$*****
*****
$C2(c). Command for Nonlinear Static Loads Applied Directly at Nodes
$      N1  -Node no. ,or no. at beginning

```

```

$    FX  -Load in X-dir.
$    FY  -Load in Y-dir.
$    MZ  -Moment load about Z-dir.
$    N2  -Node no. at ending
$    dN  -Increment of node no. ,default value= 1
$*****
$*****
$  N1      FX      FY      MZ  N2  dN
   55      317
  109      1117
  163      827
  217      1215
  271      1790
  325      2281
  379      2453
$*****
$*****
$C2(d). Command for Nonlinear Static Loading Combination
$    NLC -Load combination number to be specified sequentially
$    NSTE-Number of equal load steps in the combined load
$    SFLP-Scale factors for each loading pattern ,as many as NPAT
$*****
$*****
$ NLC NSTE      SFLP
   1  500      15.5
$*****
$*****
$C3.  Acceleration Records
$C3a. Control Information
$    NPX -Number of time-acceleration pairs in X-dir. ground motion
$    NPY -Number of time-acceleration pairs in Y-dir. ground motion
$    IP1 -Code for printing acceleration as input
$          IP1= 0:no output
$          = 1:get listing & printout
$    IP2 -Code for printing acceleration as scale & interpolated
$          IP2= 0:no output
$          = 1:get listing & printout
$    HEAD-Head of acceleration record
$*****
$*****
$  NPX      NPY      IP1      IP2      TITLE
HEAD
   0    0    0    0  1994NORTHRIDGE
$
$*****
$*****
$C3b. Ground Acceleration Time History in X-dir
$    tj  -Time
$    aXj -Acceleration in X-dir.
$  t1  aX1  t2  aX2  t3  aX3  t4  aX4  t5  aX5  t6
aX6
$elcentro.dat
$C3c. Ground Acceleration Time History in Y-dir

```

```

$      tj  -Time
$      aYj -Acceleration in Y-dir.
$      t1   aY1      t2   aY2      t3   aY3      t4   aY4      t5   aY5      t6
aY6
$C3d. Damping Information
$      alph-Mass proportional damping factor
$      beta -Stiffness proportional damping factor ,for current tangent stiffness
$      beta0-Stiffness proportional damping factor ,for original elastic stiffness
$      delta-"Structural" damping factor
$      damp -damping ratio ,damp=0.05 for R.C. ,damp=0.01..0.02 for S.S.
$*****
$*****
$      alpha      beta      beta0      delta      m1      m2      damp      damp
          0.433      0.00577      0.00577      .00000      1      2      0.05      0.05
$*****
$*****
$D. Time History Output Specification
$D1. Control Information
$      Jt1 -Time interval for printout nodal displacement time history(D2,D3,D4)
$      Jt2 -Time interval for printout element results time history(E)
$      Jt3 -Time interval for intermediate printout of envelope
$      Time interval = Jt x dT
$      NNX -Number of nodes for which X-dir. displacement printout
$      NNY -Number of nodes for which Y-dir. displacement printout
$      NNZ -Number of nodes for which Z-dir. rotation printout
$      NPX -Number of pairs of nodes for which relative X-dir. displacement
printout
$      NPY -Number of pairs of nodes for which relative Y-dir. displacement printout
$      IP1 -Print code for nodal displacement
$      IP0 -Print code for relative nodal displacement
$      IP2 -Print code for element results
$      IP0,IP1,IP2= 0:as computation progresses
$                  = 1:both IP=0 & 2
$                  = 2:as re-ordered printout
$      ITS1-Tape storage code for nodal displacement & relative nodal displacement
$      ITS2-Tape storage code for element results
$      ITS1,ITS2= 0:printed but not save on tape
$                  = 1:printed and save on tape
$      IENG-Code for energy time history print
$      ISEC-Code for structure section force groups in the X-direction and
Y-direction
$      RND -Nodal displacement time history plot range
$      RED -Element displacement time history plot range
$      REF -Element force time history plot range
$*****
$*****
$ Jt1  Jt2  Jt3  NNX  NNY  NNZ  NPX  NPY  IP1  IP0  IP2  ITS1  ITS2
IENG ISEC  RND  RED  REF
      1    1    0    7    0    0    0    0    0    0    2    0    0
0    0
$*****
$*****
$D2. List of Nodes for X-dir Displacemet Time Histories

```

```

$ N1 N2 N3 N4 N5 N6 N7 N8 N9 N10
  55 109 163 217 271 325 379
$D3. List of Nodes for Y-dir Displacemet Time Histories
$ N1 N2 N3 N4 N5 N6 N7 N8 N9 N10
$D4. List of Nodes for Z-dir Rotation Time Histories
$ N1 N2 N3 N4 N5 N6 N7 N8 N9 N10
$*****
*****
$D5. List of Nodes for Relative X-dir Displacemet Time Histories
$*****
*****
$1-Ni 1-Nj 2-Ni 2-Nj 3-Ni 3-Nj 4-Ni 4-Nj 5-Ni 5-Nj
$*****
*****
$
$(GROUP 1):BEAM-COLUMN ELEMENTS - COLUMNS
$ COLUMNS (1) :C3
$E2. Beam-Column Element
$E2a. Control Information
$ Typ -Element type ,Typ= 2:Beam-Column Element
$ NE -Total number of elements
$ NKe -Number of different element stiffness types ,NKe<=40
$ NEC -Number of different end eccentricity types ,NEC<=15
$ NSF -Number of different yield interaction surfaces ,NSF<=40
$ NFe -Number of different fixed end force patterns ,NFe<=35
$ NP0 -Number of different initial element force patterns ,NP0<=30
$*****
*****
$ Typ NE NKe NEC NSF NFe NP0
  2 312 3 0 3 0 0
$*****
*****
$E2b. Stiffness Type
$ JK -Stiffness type no.
$ E -Elastic modulus
$ r -Ratio of strain hardening modulus ,r= E,harden/E
$ A -Average cross sectional area
$ I -Reference moment of inertia
$ kii -Flexural stiffness coefficient kii
$ kjj -Flexural stiffness coefficient kjj
$ kij -Flexural stiffness coefficient kij
$ Av -Effective shear areas
$ u -Poisson's ratio
$*****
*****
$ JK E r A I kii kjj kij Av
u
$
  1 4.47E7 0.003 1 0.0833 4.0 4.0 2.0 0.000
0.3
  2 5.02E7 0.003 1 0.0833 4.0 4.0 2.0 0.000
0.3
  3 6.04E7 0.004 1 0.0833 4.0 4.0 2.0 0.000

```

0.3

\$E2c. End Eccentricity

\$ JEC -End eccentricity type no.

\$ Xi -X eccentricity at end i

\$ Xj -X eccentricity at end j

\$ Yi -Y eccentricity at end i

\$ Yj -Y eccentricity at end j

\$ JEC Xi Xj Yi Yj

\$

\$E2d. Yield Interaction Surface for Cross Section

\$ JSF -Yield surface no.

\$ ISF -Yield surface shape code

\$ ISF= 1:beam type ,without P-M interaction

\$ = 2:steel column type

\$ = 3:reinforced concrete column type

\$ +My -Yield moment for positive curvature bending

\$ -My -Yield moment for Negative curvature bending

\$ Pyc -Compression yield force

\$ Pyt -Tension yield force

\$ rMA -Ratio of moment at balance point A ,rMA= MA/+My

\$ rPA -Ratio of axial force at balance point A ,rPA= PA/Pyc

\$ rMB -Ratio of moment at balance point B ,rMB= MB/-My

\$ rPB -Ratio of axial force at balance point B ,rPB= PB/Pyc

\$ if ISF=1 then Py ,rM ,rP inactive

\$ JSF	ISF	+My	-My	Pyc	Pyt	rMA	rPA	rMB	rPB
1	3	14826	-14826	-61643	38829	0.85	0.35	0.85	0.35
2	3	16679	-16679	-66243	43993	0.85	0.35	0.85	0.35
3	3	20161	-20161	-75695	54135	0.85	0.35	0.85	0.35

\$E2e. Fixed End Force Patterns

\$ JF -Pattern no.

\$ Iax -Axes code

\$ Iax= 0:in element coordinate system

\$ = 1:in global coordinate system

\$ Fi -Clamping force Fi

\$ Vi -Clamping force Vi

\$ Mi -Clamping moment Mi

\$ Fj -Clamping force Fj

\$ Vj -Clamping force Vj

\$ Mj -Clamping moment Mj

\$ LRF -Live load reduce factor

\$ JF	Iax	Fi	Vi	Mi	Fj	Vj
Mj	LRF					

\$ 1	0	0	0	6.272	0	-6.272
------	---	---	---	-------	---	--------

\$E2f. Initial Element Force Patterns

\$ JP0 -Pattern no.

\$ Fi -Initial axial force Fi

\$ Vi -Initial shear force Vi
 \$ Mi -Initial moment Mi
 \$ Fj -Initial axial force Fj
 \$ Vj -Initial shear force Vj
 \$ Mj -Initial moment Mj
 \$ JP0 Iax Fi Vi Mi Fj Vj Mj
 \$
 \$E2g. Element Generation Commands
 \$ EN -Element no. or no. at begining
 \$ Ni -Node no. at element end i
 \$ Nj -Node no. at element end j
 \$ dN -Increment of node no. ,default value= 1
 \$ ST -Stiffness type no.
 \$ ECCE -End eccentricity type no.
 \$ YSi -Yield surface no. for element end i
 \$ YSj -Yield surface no. for element end j
 \$ GEO -Code for geometric stiffness
 \$ GEO= 0:ignored
 \$ = 1:include geometric stiffness
 \$ THP -Time history output code
 \$ THP= 0:not require
 \$ = 1:require printout
 \$ FDD -Fixed end force pattern no. for static dead load
 \$ FDL -Fixed end force pattern no. for static live load
 \$ SDD -Scale factor for FDD
 \$ SLD -Scale factor for FLD
 \$ IFP -Initial force pattern no.
 \$ SIF -Scale factor for IFP
 \$ IENG-Elastic and inelastic strain energy group number
 \$ ISEC-Structure section group number
 \$*****

\$	EN	Ni	Nj	dN	ST	ECCE	YSi	YSj	GEO	THP	FDD	FLD
SDD	SLD	IFP	SIF	IENG	ISEC							
\$C3												
	1	1	55	1	3	0	3	3	1	0	0	0
0	0	0	0									
	13	13	67	0	3	0	3	3	1	0	0	0
0	0	0	0									
	14	15	69	1	3	0	3	3	1	0	0	0
0	0	0	0									
	24	25	79	0	3	0	3	3	1	0	0	0
0	0	0	0									
	25	27	81	1	3	0	3	3	1	0	0	0
0	0	0	0									
	35	37	91	0	3	0	3	3	1	0	0	0
0	0	0	0									
	36	39	93	1	3	0	3	3	1	0	0	0
0	0	0	0									
	64	67	121	0	3	0	3	3	1	0	0	0
0	0	0	0									
	65	69	123	1	3	0	3	3	1	0	0	0
0	0	0	0									

0	75	79	133	0	3	0	3	3	1	0	0	0	0
0	0	0	0										
0	76	81	135	1	3	0	3	3	1	0	0	0	0
0	0	0	0										
0	86	91	145	0	3	0	3	3	1	0	0	0	0
0	0	0	0										
0	87	93	147	1	3	0	3	3	1	0	0	0	0
0	0	0	0										
0	102	108	162	0	3	0	3	3	1	0	0	0	0
0	0	0	0										
0	103	109	163	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	112	118	172	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	113	120	174	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	114	121	175	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	115	123	177	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	116	124	178	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	117	126	180	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	118	127	181	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	119	129	183	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	120	130	184	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	121	132	186	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	122	133	187	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	123	135	189	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	124	136	190	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	125	138	192	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	126	139	193	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	127	141	195	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	128	142	196	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	129	144	198	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	130	145	199	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	131	147	201	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
0	132	148	202	0	2	0	2	2	1	0	0	0	0

0	0	0	0										
	133	150	204	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
	134	151	205	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
	135	153	207	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
	154	172	226	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
	155	174	228	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
	156	175	229	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
	157	177	231	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
	158	178	232	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
	159	180	234	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
	160	181	235	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
	161	183	237	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
	162	184	238	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
	163	186	240	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
	164	187	241	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
	165	189	243	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
	166	190	244	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
	167	192	246	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
	168	193	247	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
	169	195	249	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
	170	196	250	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
	171	198	252	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
	172	199	253	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
	173	201	255	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
	174	202	256	0	2	0	2	2	1	0	0	0	0
0	0	0	0										
	175	204	258	1	2	0	2	2	1	0	0	0	0
0	0	0	0										
	176	205	259	0	2	0	2	2	1	0	0	0	0
0	0	0	0										

177	207	261	1	2	0	2	2	1	0	0	0	0
0	0	0										
196	226	280	0	2	0	2	2	1	0	0	0	0
0	0	0										
197	228	282	1	2	0	2	2	1	0	0	0	0
0	0	0										
198	229	283	0	2	0	2	2	1	0	0	0	0
0	0	0										
199	231	285	1	2	0	2	2	1	0	0	0	0
0	0	0										
200	232	286	0	2	0	2	2	1	0	0	0	0
0	0	0										
201	234	288	1	2	0	2	2	1	0	0	0	0
0	0	0										
202	235	289	0	2	0	2	2	1	0	0	0	0
0	0	0										
203	237	291	1	2	0	2	2	1	0	0	0	0
0	0	0										
204	238	292	0	2	0	2	2	1	0	0	0	0
0	0	0										
205	240	294	1	2	0	2	2	1	0	0	0	0
0	0	0										
206	241	295	0	2	0	2	2	1	0	0	0	0
0	0	0										
207	243	297	1	2	0	2	2	1	0	0	0	0
0	0	0										
208	244	298	0	2	0	2	2	1	0	0	0	0
0	0	0										
209	246	300	1	2	0	2	2	1	0	0	0	0
0	0	0										
210	247	301	0	2	0	2	2	1	0	0	0	0
0	0	0										
211	249	303	1	2	0	2	2	1	0	0	0	0
0	0	0										
212	250	304	0	2	0	2	2	1	0	0	0	0
0	0	0										
213	252	306	1	2	0	2	2	1	0	0	0	0
0	0	0										
214	253	307	0	2	0	2	2	1	0	0	0	0
0	0	0										
215	255	309	1	2	0	2	2	1	0	0	0	0
0	0	0										
216	256	310	0	2	0	2	2	1	0	0	0	0
0	0	0										
217	258	312	1	2	0	2	2	1	0	0	0	0
0	0	0										
218	259	313	0	2	0	2	2	1	0	0	0	0
0	0	0										
219	261	315	1	2	0	2	2	1	0	0	0	0
0	0	0										
228	270	324	0	2	0	2	2	1	0	0	0	0
0	0	0										
229	271	325	1	1	0	1	1	1	0	0	0	0

0	0	0	0										
238	280	334	0	1	0	1	1	1	0	0	0	0	
0	0	0	0										
239	282	336	1	1	0	1	1	1	0	0	0	0	
0	0	0	0										
240	283	337	0	1	0	1	1	1	0	0	0	0	
0	0	0	0										
241	285	339	1	1	0	1	1	1	0	0	0	0	
0	0	0	0										
242	286	340	0	1	0	1	1	1	0	0	0	0	
0	0	0	0										
243	288	342	1	1	0	1	1	1	0	0	0	0	
0	0	0	0										
244	289	343	0	1	0	1	1	1	0	0	0	0	
0	0	0	0										
245	291	345	1	1	0	1	1	1	0	0	0	0	
0	0	0	0										
246	292	346	0	1	0	1	1	1	0	0	0	0	
0	0	0	0										
247	294	348	1	1	0	1	1	1	0	0	0	0	
0	0	0	0										
248	295	349	0	1	0	1	1	1	0	0	0	0	
0	0	0	0										
249	297	351	1	1	0	1	1	1	0	0	0	0	
0	0	0	0										
250	298	352	0	1	0	1	1	1	0	0	0	0	
0	0	0	0										
251	300	354	1	1	0	1	1	1	0	0	0	0	
0	0	0	0										
252	301	355	0	1	0	1	1	1	0	0	0	0	
0	0	0	0										
253	303	357	1	1	0	1	1	1	0	0	0	0	
0	0	0	0										
254	304	358	0	1	0	1	1	1	0	0	0	0	
0	0	0	0										
255	306	360	1	1	0	1	1	1	0	0	0	0	
0	0	0	0										
256	307	361	0	1	0	1	1	1	0	0	0	0	
0	0	0	0										
257	309	363	1	1	0	1	1	1	0	0	0	0	
0	0	0	0										
258	310	364	0	1	0	1	1	1	0	0	0	0	
0	0	0	0										
259	312	366	1	1	0	1	1	1	0	0	0	0	
0	0	0	0										
260	313	367	0	1	0	1	1	1	0	0	0	0	
0	0	0	0										
261	315	369	1	1	0	1	1	1	0	0	0	0	
0	0	0	0										
280	334	388	0	1	0	1	1	1	0	0	0	0	
0	0	0	0										
281	336	390	1	1	0	1	1	1	0	0	0	0	
0	0	0	0										

282	337	391	0	1	0	1	1	1	0	0	0	0
0	0	0	0									
283	339	393	1	1	0	1	1	1	0	0	0	0
0	0	0	0									
284	340	394	0	1	0	1	1	1	0	0	0	0
0	0	0	0									
285	342	396	1	1	0	1	1	1	0	0	0	0
0	0	0	0									
286	343	397	0	1	0	1	1	1	0	0	0	0
0	0	0	0									
287	345	399	1	1	0	1	1	1	0	0	0	0
0	0	0	0									
288	346	400	0	1	0	1	1	1	0	0	0	0
0	0	0	0									
289	348	402	1	1	0	1	1	1	0	0	0	0
0	0	0	0									
290	349	403	0	1	0	1	1	1	0	0	0	0
0	0	0	0									
291	351	405	1	1	0	1	1	1	0	0	0	0
0	0	0	0									
292	352	406	0	1	0	1	1	1	0	0	0	0
0	0	0	0									
293	354	408	1	1	0	1	1	1	0	0	0	0
0	0	0	0									
294	355	409	0	1	0	1	1	1	0	0	0	0
0	0	0	0									
295	357	411	1	1	0	1	1	1	0	0	0	0
0	0	0	0									
296	358	412	0	1	0	1	1	1	0	0	0	0
0	0	0	0									
297	360	414	1	1	0	1	1	1	0	0	0	0
0	0	0	0									
298	361	415	0	1	0	1	1	1	0	0	0	0
0	0	0	0									
299	363	417	1	1	0	1	1	1	0	0	0	0
0	0	0	0									
300	364	418	0	1	0	1	1	1	0	0	0	0
0	0	0	0									
301	366	420	1	1	0	1	1	1	0	0	0	0
0	0	0	0									
302	367	421	0	1	0	1	1	1	0	0	0	0
0	0	0	0									
303	369	423	1	1	0	1	1	1	0	0	0	0
0	0	0	0									
312	378	432	0	1	0	1	1	1	0	0	0	0
0	0	0	0									



\$*****

\$

\$ (GROUP 2):BEAM-COLUMN ELEMENTS - BEAM 2F~5F

\$ COLUMNS (1) :C3

\$E2. Beam-Column Element

\$E2a. Control Information

\$ Typ -Element type ,Typ= 2:Beam-Column Element
 \$ NE -Total number of elements
 \$ NKe -Number of different element stiffness types ,NKe<=40
 \$ NEC -Number of different end eccentricity types ,NEC<=15
 \$ NSF -Number of different yield interaction surfaces ,NSF<=40
 \$ NFe -Number of different fixed end force patterns ,NFe<=35
 \$ NP0 -Number of different initial element force patterns ,NP0<=30

\$*****

\$ Typ NE NKe NEC NSF NFe NP0
 2 121 4 0 4 29 0

\$*****

\$E2b. Stiffness Type

\$ JK -Stiffness type no.
 \$ E -Elastic modulus
 \$ r -Ratio of strain hardening modulus ,r= E_{harden}/E
 \$ A -Average cross sectional area
 \$ I -Reference moment of inertia
 \$ kii -Flexural stiffness coefficient kii
 \$ kjj -Flexural stiffness coefficient kjj
 \$ kij -Flexural stiffness coefficient kij
 \$ Av -Effective shear areas
 \$ u -Poisson's ratio

\$*****

	JK	E	r	A	I	kii	kjj	kij	Av	u
1	2.97E+7	0.002	0.60	0.0500	4.0	4.0	2.0	0.000		
2	3.22E+7	0.003	0.60	0.0500	4.0	4.0	2.0	0.000		
3	3.73E+7	0.004	0.60	0.0500	4.0	4.0	2.0	0.000		
4	3.77E+7	0.004	0.65	0.0542	4.0	4.0	2.0	0.000		

\$*****

\$E2c. End Eccentricity

\$ JEC -End eccentricity type no.
 \$ Xi -X eccentricity at end i
 \$ Xj -X eccentricity at end j
 \$ Yi -Y eccentricity at end i
 \$ Yj -Y eccentricity at end j
 \$ JEC Xi Xj Yi Yj

\$

\$E2d. Yield Interaction Surface for Cross Section

\$ JSF -Yield surface no.
 \$ ISF -Yield surface shape code
 \$ ISF= 1:beam type ,without P-M interaction
 \$ = 2:steel column type
 \$ = 3:reinforced concrete column type

```

$      +My -Yield moment for positive curvature bending
$      -My -Yield moment for Negative curvature bending
$      Pyc -Compression yield force
$      Pyt -Tension yield force
$      rMA -Ratio of moment at balance point A ,rMA= MA/+My
$      rPA -Ratio of axial force at balance point A ,rPA= PA/Pyc
$      rMB -Ratio of moment at balance point B ,rMB= MB/-My
$      rPB -Ratio of axial force at balance point B ,rPB= PB/Pyc
$      if ISF=1 then Py ,rM ,rP inactive
$*****
*****
$ JSF  ISF      +My      -My      Pyc      Pyt  rMA  rPA  rMB
rPB
    1    3      6819     -6819     -33270      18100 0.85 0.35 0.85 0.35
    2    3      7323     -7323     -34410      19450 0.85 0.35 0.85 0.35
    3    3      8359     -8359     -36970      22110 0.85 0.35 0.85 0.35
    4    3      9141     -9141     -39583      23795 0.85 0.35 0.85 0.35
$*****
*****
$E2e. Fixed End Force Patterns
$      JF  -Pattern no.
$      Iax -Axes code
$      Iax= 0:in element coordinate system
$      = 1:in global  coordinate system
$      Fi  -Clamping force  Fi
$      Vi  -Clamping force  Vi
$      Mi  -Clamping moment Mi
$      Fj  -Clamping force  Fj
$      Vj  -Clamping force  Vj
$      Mj  -Clamping moment Mj
$      LRF -Live load reduce factor
$      JF  Iax      Fi      Vi      Mi      Fj      Vj
Mj      LRF
$LL
    1    0      0      39.2      78.5      0      39.2      -78.5
    2    0      0      65.4      145.1      0      65.4      -145.1
    3    0      0      130.8      290.2      0      130.8      -290.2
    4    0      0      87.2      193.5      0      76.3      -169.3
    5    0      0      43.6      96.7      0      21.8      -48.3
    6    0      0      21.8      48.1      0      10.9      -24.2
    7    0      0      58.9      88.3      0      58.9      -88.3
    8    0      0      78.5      156.9      0      78.5      -156.9
    9    0      0      130.8      290.2      0      130.8      -290.2
   10    0      0      206.1      615.3      0      206.1      -581.6
   11    0      0      24.5      40.9      0      24.5      -40.9
   12    0      0      206.1      600.8      0      206.1      -600.8
$DL
   13    0      0      295.1      590.2      0      295.1      -590.2
   14    0      0      491.6      1091.2      0      491.6      -1091.2
   15    0      0      983.5      2182.4      0      983.5      -2182.4
   16    0      0      655.5      1455.1      0      573.5      -1273.1
   17    0      0      327.8      727.2      0      163.8      -363.2
   18    0      0      163.9      363.6      0      81.9      -181.8

```

19	0	0	221.3	442.5	0	221.3	-442.5
20	0	0	368.7	818.4	0	368.7	-818.4
21	0	0	331.9	498.1	0	331.9	-498.1
22	0	0	442.6	884.9	0	442.6	-884.9
23	0	0	737.4	1636.8	0	737.4	-1636.8
24	0	0	1161.9	3470.3	0	1161.9	-3280.3
25	0	0	526.6	1053.5	0	526.6	-1053.5
26	0	0	329.1	548.5	0	329.1	-548.5
27	0	0	313.9	696.5	0	313.9	-696.5
28	0	0	188.4	376.8	0	188.4	-376.8
29	0	0	988.8	2883.8	0	988.8	-2883.8

\$E2f. Initial Element Force Patterns

\$ JP0 -Pattern no.

\$ Fi -Initial axial force Fi

\$ Vi -Initial shear force Vi

\$ Mi -Initial moment Mi

\$ Fj -Initial axial force Fj

\$ Vj -Initial shear force Vj

\$ Mj -Initial moment Mj

\$ JP0 lax Fi Vi Mi Fj Vj Mj

\$

\$E2g. Element Generation Commands

\$ EN -Element no. or no. at beginning

\$ Ni -Node no. at element end i

\$ Nj -Node no. at element end j

\$ dN -Increment of node no., default value= 1

\$ ST -Stiffness type no.

\$ ECCE -End eccentricity type no.

\$ YSi -Yield surface no. for element end i

\$ YSj -Yield surface no. for element end j

\$ GEO -Code for geometric stiffness

\$ GEO= 0:ignored

\$ = 1:include geometric stiffness

\$ THP -Time history output code

\$ THP= 0:not require

\$ = 1:require printout

\$ FDD -Fixed end force pattern no. for static dead load

\$ FDL -Fixed end force pattern no. for static live load

\$ SDD -Scale factor for FDD

\$ SLD -Scale factor for FLD

\$ IFP -Initial force pattern no.

\$ SIF -Scale factor for IFP

\$ IENG-Elastic and inelastic strain energy group number

\$ ISEC-Structure section force group number

\$*****

\$ EN Ni Nj dN ST ECCE YSi YSj GEO THP FDD FLD
SDD SLD IFP SIF IENG ISEC

\$C3

1	55	56	0	3	0	3	3	1	1	0	0	1.41	1.41
0	0	0											
2	56	57	0	3	0	3	3	1	0	13	1	1.41	1.41
0	0	0											

0	3	57	58	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	4	58	59	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	5	59	60	0	3	0	3	3	1	0	14	2	1.41	1.41
0	0	0												
0	6	61	62	0	3	0	3	3	1	0	0	0	1.41	1.41
0	0	0												
0	7	62	63	0	3	0	3	3	1	0	13	1	1.41	1.41
0	0	0												
0	8	63	64	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	9	64	65	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	10	65	66	0	3	0	3	3	1	0	15	3	1.41	1.41
0	0	0												
0	11	69	70	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	12	70	71	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	13	71	72	0	3	0	3	3	1	0	16	4	1.41	1.41
0	0	0												
0	14	73	74	0	3	0	3	3	1	0	0	0	1.41	1.41
0	0	0												
0	15	74	75	0	3	0	3	3	1	0	0	0	1.41	1.41
0	0	0												
0	16	75	76	0	3	0	3	3	1	0	0	0	1.41	1.41
0	0	0												
0	17	76	77	0	3	0	3	3	1	0	0	0	1.41	1.41
0	0	0												
0	18	77	78	0	3	0	3	3	1	0	17	5	1.41	1.41
0	0	0												
0	19	81	82	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	20	82	83	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	21	83	84	0	3	0	3	3	1	0	18	6	1.41	1.41
0	0	0												
0	22	85	86	0	3	0	3	3	1	0	0	0	1.41	1.41
0	0	0												
0	23	86	87	0	3	0	3	3	1	0	0	0	1.41	1.41
0	0	0												
0	24	87	88	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	25	88	89	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	26	93	94	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	27	94	95	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	28	95	96	0	3	0	3	3	1	0	14	2	1.41	1.41
0	0	0												
0	29	97	98	0	4	0	4	4	1	0	0	0	1.41	1.41

0	0	0												
	30	98	99	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	31	99	100	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	32	100	101	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	33	101	102	0	4	0	4	4	1	0	14	2	1.41	1.41
0	0	0												
	34	104	105	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	35	106	107	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	36	107	108	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	37	109	110	0	2	0	2	2	1	0	0	0	1.41	1.41
0	0	0												
	38	110	111	0	2	0	2	2	1	0	15	1	1.41	1.41
0	0	0												
	39	111	112	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	40	112	113	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	41	113	114	0	2	0	2	2	1	0	20	2	1.41	1.41
0	0	0												
	42	115	116	0	2	0	2	2	1	0	21	7	1.41	1.41
0	0	0												
	43	116	117	0	2	0	2	2	1	0	22	8	1.41	1.41
0	0	0												
	44	117	118	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	45	118	119	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	46	119	120	0	2	0	2	2	1	0	23	9	1.41	1.41
0	0	0												
	47	121	123	0	2	0	2	2	1	0	24	10	1.41	1.41
0	0	0												
	48	123	124	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	49	124	125	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	50	125	126	0	2	0	2	2	1	0	23	9	1.41	1.41
0	0	0												
	51	127	128	0	2	0	2	2	1	0	21	7	1.41	1.41
0	0	0												
	52	128	129	0	2	0	2	2	1	0	22	8	1.41	1.41
0	0	0												
	53	129	130	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	54	130	131	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	55	131	132	0	2	0	2	2	1	0	23	9	1.41	1.41
0	0	0												

0	56	133	135	0	2	0	2	2	1	0	24	10	1.41	1.41
0	0	0												
0	57	135	136	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	58	136	137	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	59	137	138	0	2	0	2	2	1	0	23	9	1.41	1.41
0	0	0												
0	60	139	140	0	2	0	2	2	1	0	21	7	1.41	1.41
0	0	0												
0	61	140	141	0	2	0	2	2	1	0	22	8	1.41	1.41
0	0	0												
0	62	141	142	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	63	142	143	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	64	143	144	0	2	0	2	2	1	0	23	9	1.41	1.41
0	0	0												
0	65	145	147	0	2	0	2	2	1	0	24	10	1.41	1.41
0	0	0												
0	66	147	148	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	67	148	149	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	68	149	150	0	2	0	2	2	1	0	23	9	1.41	1.41
0	0	0												
0	69	151	152	0	4	0	4	4	1	0	21	7	1.41	1.41
0	0	0												
0	70	152	153	0	4	0	4	4	1	0	22	8	1.41	1.41
0	0	0												
0	71	153	154	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	72	154	155	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	73	155	156	0	4	0	4	4	1	0	23	9	1.41	1.41
0	0	0												
0	74	157	158	0	2	0	2	2	1	0	0	0	1.41	1.41
0	0	0												
0	75	158	159	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	76	160	161	0	4	0	4	4	1	0	19	1	1.41	1.41
0	0	0												
0	77	161	162	0	4	0	4	4	1	0	19	1	1.41	1.41
0	0	0												
0	78	163	164	0	2	0	2	2	1	0	0	0	1.41	1.41
0	0	0												
0	79	164	165	0	2	0	2	2	1	0	25	1	1.41	1.41
0	0	0												
0	80	165	166	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	81	166	167	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
0	82	167	168	0	2	0	2	2	1	0	26	11	1.41	1.41

0	0	0												
	83	169	170	0	2	0	2	2	1	0	0	0	1.41	1.41
0	0	0												
	84	170	171	0	2	0	2	2	1	0	25	1	1.41	1.41
0	0	0												
	85	171	172	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	86	177	178	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	87	183	184	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	88	189	190	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	89	195	196	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	90	201	202	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	91	207	208	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	92	208	209	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	93	209	210	0	4	0	4	4	1	0	26	11	1.41	1.41
0	0	0												
	94	212	213	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	95	214	215	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	96	215	216	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												
	97	217	218	0	2	0	2	2	1	0	0	0	1.41	1.41
0	0	0												
	98	218	219	0	2	0	2	2	1	0	28	1	1.41	1.41
0	0	0												
	99	219	220	0	2	0	2	2	1	0	0	0	1.41	1.41
0	0	0												
	100	220	221	0	2	0	2	2	1	0	0	0	1.41	1.41
0	0	0												
	101	221	222	0	2	0	2	2	1	0	27	2	1.41	1.41
0	0	0												
	102	223	224	0	2	0	2	2	1	0	0	0	1.41	1.41
0	0	0												
	103	224	225	0	2	0	2	2	1	0	28	1	1.41	1.41
0	0	0												
	104	225	226	0	2	0	2	2	1	0	0	0	1.41	1.41
0	0	0												
	105	226	228	0	2	0	2	2	1	0	29	12	1.41	1.41
0	0	0												
	106	231	232	0	2	0	2	2	1	0	0	0	1.41	1.41
0	0	0												
	107	232	234	0	2	0	2	2	1	0	29	12	1.41	1.41
0	0	0												
	108	237	238	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0												

109	238	240	0	4	0	4	4	1	0	29	12	1.41	1.41
0	0	0											
110	243	244	0	2	0	2	2	1	0	0	0	1.41	1.41
0	0	0											
111	244	246	0	2	0	2	2	1	0	29	12	1.41	1.41
0	0	0											
112	249	250	0	2	0	2	2	1	0	0	0	1.41	1.41
0	0	0											
113	250	252	0	2	0	2	2	1	0	29	12	1.41	1.41
0	0	0											
114	255	256	0	2	0	2	2	1	0	0	0	1.41	1.41
0	0	0											
115	256	258	0	2	0	2	2	1	0	29	12	1.41	1.41
0	0	0											
116	261	262	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0											
117	262	263	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0											
118	263	264	0	4	0	4	4	1	0	27	2	1.41	1.41
0	0	0											
119	266	267	0	2	0	2	2	1	0	0	0	1.41	1.41
0	0	0											
120	268	269	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0											
121	269	270	0	4	0	4	4	1	0	0	0	1.41	1.41
0	0	0											

\$*****

\$

\$ (GROUP 3):BEAM-COLUMN ELEMENTS - BEAM 6F~RF

\$ COLUMNS (1) :C3

\$E2. Beam-Column Element

\$E2a. Control Information

\$ Typ -Element type ,Typ= 2:Beam-Column Element

\$ NE -Total number of elements

\$ NKe -Number of different element stiffness types ,NKe<=40

\$ NEC -Number of different end eccentricity types ,NEC<=15

\$ NSF -Number of different yield interaction surfaces ,NSF<=40

\$ NFe -Number of different fixed end force patterns ,NFe<=35

\$ NP0 -Number of different initial element force patterns ,NP0<=30

\$*****

\$ Typ NE NKe NEC NSF NFe NP0

2 96 4 0 4 24 0

\$*****

\$E2b. Stiffness Type

\$ JK -Stiffness type no.

\$ E -Elastic modulus

\$ r -Ratio of strain hardening modulus ,r= E_{harden}/E

\$ A -Average cross sectional area

\$ I -Reference moment of inertia

\$ kii -Flexural stiffness coefficient kii

\$ kjj -Flexural stiffness coefficient kjj
 \$ kij -Flexural stiffness coefficient kij
 \$ Av -Effective shear areas
 \$ u -Poisson's ratio
 \$*****

\$ JK	E	r	A	I	kii	kjj	kij	Av
u								
\$								
1	2.97E+7	0.002	0.60	0.0500	4.0	4.0	2.0	0.000
0.3								
2	3.22E+7	0.003	0.60	0.0500	4.0	4.0	2.0	0.000
0.3								
3	3.73E+7	0.004	0.60	0.0500	4.0	4.0	2.0	0.000
0.3								
4	3.77E+7	0.004	0.65	0.0542	4.0	4.0	2.0	0.000
0.3								

\$*****

\$E2c. End Eccentricity

\$ JEC -End eccentricity type no.
 \$ Xi -X eccentricity at end i
 \$ Xj -X eccentricity at end j
 \$ Yi -Y eccentricity at end i
 \$ Yj -Y eccentricity at end j
 \$ JEC Xi Xj Yi Yj
 \$

\$E2d. Yield Interaction Surface for Cross Section

\$ JSF -Yield surface no.
 \$ ISF -Yield surface shape code
 \$ ISF= 1:beam type ,without P-M interaction
 \$ = 2:steel column type
 \$ = 3:reinforced concrete column type
 \$ +My -Yield moment for positive curvature bending
 \$ -My -Yield moment for Negative curvature bending
 \$ Pyc -Compression yield force
 \$ Pyt -Tension yield force
 \$ rMA -Ratio of moment at balance point A ,rMA= MA/+My
 \$ rPA -Ratio of axial force at balance point A ,rPA= PA/Pyc
 \$ rMB -Ratio of moment at balance point B ,rMB= MB/-My
 \$ rPB -Ratio of axial force at balance point B ,rPB= PB/Pyc
 \$ if ISF=1 then Py ,rM ,rP inactive
 \$*****

\$ JSF	ISF	+My	-My	Pyc	Pyt	rMA	rPA	rMB
rPB								
1	3	6819	-6819	-33270	18100	0.85	0.35	0.85
2	3	7323	-7323	-34410	19450	0.85	0.35	0.85
3	3	8359	-8359	-36970	22110	0.85	0.35	0.85
4	3	9141	-9141	-39583	23795	0.85	0.35	0.85

\$*****

\$E2e. Fixed End Force Patterns

\$ JF -Pattern no.
 \$ Iax -Axes code
 \$ Iax= 0:in element coordinate system
 \$ = 1:in global coordinate system
 \$ Fi -Clamping force Fi
 \$ Vi -Clamping force Vi
 \$ Mi -Clamping moment Mi
 \$ Fj -Clamping force Fj
 \$ Vj -Clamping force Vj
 \$ Mj -Clamping moment Mj
 \$ LRF -Live load reduce factor

\$ JF	Iax	Fi	Vi	Mi	Fj	Vj
Mj	LRF					
\$LL						
1	0	0	29.4	44.1	0	29.4
2	0	0	39.2	78.5	0	39.2
3	0	0	65.4	145.1	0	65.4
4	0	0	58.8	88.2	0	58.8
5	0	0	78.4	156.9	0	78.4
6	0	0	206.1	600.8	0	206.1
7	0	0	29.4	44.1	0	29.4
8	0	0	39.2	78.5	0	39.2
9	0	0	65.4	145.1	0	65.4
10	0	0	58.8	88.2	0	58.8
11	0	0	78.4	156.9	0	78.4
12	0	0	206.1	600.8	0	206.1
\$DL						
13	0	0	96.5	144.8	0	96.5
14	0	0	128.7	257.5	0	128.7
15	0	0	214.5	475.9	0	214.5
16	0	0	192.9	289.6	0	192.9
17	0	0	257.2	514.6	0	257.2
18	0	0	746.1	1970.6	0	746.1
19	0	0	106.4	159.6	0	106.4
20	0	0	141.9	284.2	0	141.9
21	0	0	236.7	525.3	0	236.7
22	0	0	212.9	319.3	0	212.9
23	0	0	283.8	567.9	0	283.8
24	0	0	746.1	2174.9	0	746.1

\$E2f. Initial Element Force Patterns

\$ JP0 -Pattern no.
 \$ Fi -Initial axial force Fi
 \$ Vi -Initial shear force Vi
 \$ Mi -Initial moment Mi
 \$ Fj -Initial axial force Fj
 \$ Vj -Initial shear force Vj
 \$ Mj -Initial moment Mj

\$ JP0	Iax	Fi	Vi	Mi	Fj	Vj	Mj
--------	-----	----	----	----	----	----	----

\$E2g. Element Generation Commands

\$ EN -Element no. or no. at beginning
 \$ Ni -Node no. at element end i
 \$ Nj -Node no. at element end j

\$ dN -Increment of node no. ,default value= 1
 \$ ST -Stiffness type no.
 \$ ECCE -End eccentricity type no.
 \$ YSi -Yield surface no. for element end i
 \$ YSj -Yield surface no. for element end j
 \$ GEO -Code for geometric stiffness
 \$ GEO= 0:ignored
 \$ = 1:include geometric stiffness
 \$ THP -Time history output code
 \$ THP= 0:not require
 \$ = 1:require printout
 \$ FDD -Fixed end force pattern no. for static dead load
 \$ FDL -Fixed end force pattern no. for static live load
 \$ SDD -Scale factor for FDD
 \$ SLD -Scale factor for FLD
 \$ IFP -Initial force pattern no.
 \$ SIF -Scale factor for IFP
 \$ IENG-Elastic and inelastic strain energy group number
 \$ ISEC-Structure section force group number
 \$*****

 \$ EN Ni Nj dN ST ECCE YSi YSj GEO THP FDD FLD
 SDD SLD IFP SIF IENG ISEC
 \$C3

1	271	272	0	1	0	1	1	1	0	13	1	1.41	1.41
0	0	0											
2	272	273	0	1	0	1	1	1	0	14	2	1.41	1.41
0	0	0											
3	273	274	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0											
4	274	275	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0											
5	275	276	0	1	0	1	1	1	0	15	3	1.41	1.41
0	0	0											
6	277	278	0	1	0	1	1	1	0	16	4	1.41	1.41
0	0	0											
7	278	279	0	1	0	1	1	1	0	17	5	1.41	1.41
0	0	0											
8	279	280	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0											
9	280	282	0	1	0	1	1	1	0	18	6	1.41	1.41
0	0	0											
10	283	285	0	1	0	1	1	1	0	18	6	1.41	1.41
0	0	0											
11	285	286	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0											
12	286	288	0	1	0	1	1	1	0	18	6	1.41	1.41
0	0	0											
13	289	291	0	1	0	1	1	1	0	18	6	1.41	1.41
0	0	0											
14	291	292	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0											
15	292	294	0	1	0	1	1	1	0	18	6	1.41	1.41

0	0	0												
	16	295	297	0	1	0	1	1	1	0	18	6	1.41	1.41
0	0	0												
	17	297	298	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	18	298	300	0	1	0	1	1	1	0	18	6	1.41	1.41
0	0	0												
	19	301	303	0	1	0	1	1	1	0	18	6	1.41	1.41
0	0	0												
	20	303	304	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	21	304	306	0	1	0	1	1	1	0	18	6	1.41	1.41
0	0	0												
	22	307	309	0	1	0	1	1	1	0	18	6	1.41	1.41
0	0	0												
	23	309	310	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	24	310	312	0	1	0	1	1	1	0	18	6	1.41	1.41
0	0	0												
	25	313	315	0	1	0	1	1	1	0	18	6	1.41	1.41
0	0	0												
	26	315	316	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	27	316	317	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	28	317	318	0	1	0	1	1	1	0	15	3	1.41	1.41
0	0	0												
	29	319	320	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	30	320	321	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	31	322	323	0	1	0	1	1	1	0	13	1	1.41	1.41
0	0	0												
	32	323	324	0	1	0	1	1	1	0	14	2	1.41	1.41
0	0	0												
	33	325	326	0	1	0	1	1	1	0	19	1	1.41	1.41
0	0	0												
	34	326	327	0	1	0	1	1	1	0	20	2	1.41	1.41
0	0	0												
	35	327	328	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	36	328	329	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	37	329	330	0	1	0	1	1	1	0	21	3	1.41	1.41
0	0	0												
	38	331	332	0	1	0	1	1	1	0	22	4	1.41	1.41
0	0	0												
	39	332	333	0	1	0	1	1	1	0	23	5	1.41	1.41
0	0	0												
	40	333	334	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	41	334	336	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												

0	42	337	339	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
0	43	339	340	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
0	44	340	342	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
0	45	343	345	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
0	46	345	346	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
0	47	346	348	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
0	48	349	351	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
0	49	351	352	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
0	50	352	354	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
0	51	355	357	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
0	52	357	358	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
0	53	358	360	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
0	54	361	363	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
0	55	363	364	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
0	56	364	366	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
0	57	367	369	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
0	58	369	370	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
0	59	370	371	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
0	60	371	372	0	1	0	1	1	1	0	22	3	1.41	1.41
0	0	0												
0	61	373	374	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
0	62	374	375	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
0	63	376	377	0	1	0	1	1	1	0	19	1	1.41	1.41
0	0	0												
0	64	377	378	0	1	0	1	1	1	0	20	2	1.41	1.41
0	0	0												
0	65	379	380	0	1	0	1	1	1	0	19	1	1.41	1.41
0	0	0												
0	66	380	381	0	1	0	1	1	1	0	20	2	1.41	1.41
0	0	0												
0	67	381	382	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
0	68	382	383	0	1	0	1	1	1	0	0	0	1.41	1.41

0	0	0												
	69	383	384	0	1	0	1	1	1	0	21	3	1.41	1.41
0	0	0												
	70	385	386	0	1	0	1	1	1	0	22	4	1.41	1.41
0	0	0												
	71	386	387	0	1	0	1	1	1	0	23	5	1.41	1.41
0	0	0												
	72	387	388	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	73	388	390	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
	74	391	393	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
	75	393	394	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	76	394	396	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
	77	397	399	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
	78	399	400	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	79	400	402	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
	80	403	405	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
	81	405	406	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	82	406	408	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
	83	409	411	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
	84	411	412	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	85	412	414	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
	86	415	417	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
	87	417	418	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	88	418	420	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
	89	421	423	0	1	0	1	1	1	0	24	6	1.41	1.41
0	0	0												
	90	423	424	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	91	424	425	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	92	425	426	0	1	0	1	1	1	0	22	3	1.41	1.41
0	0	0												
	93	427	428	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												
	94	428	429	0	1	0	1	1	1	0	0	0	1.41	1.41
0	0	0												

	95	430	431	0	1	0	1	1	1	0	19	1	1.41	1.41
0	0	0												
	96	431	432	0	1	0	1	1	1	0	20	2	1.41	1.41
0	0	0												

STOP



PISA3D 7FPISA3D 分析輸入檔

Beam Column test

KN

M

----Analysis Method Command----

Analysis loadcontrol p 16.9 1

----Analysis Method Command----

//Analysis ModeShape reqdModes? ID_M1? ID_M2?

C1?

C2?

/Analysis ModeShape

21 1

4

0.05

0.05

----Load Pattern Command: Nodal

Load----

//LoadPattern NodalLoad

Tag?

Node? FX? FY? FZ? MX? MY? MZ?

LoadPattern NodalLoad

p

52 9.3 0 0 0 0 0

LoadPattern NodalLoad

p

53 18.7 0 0 0 0 0

LoadPattern NodalLoad

p

54 9.3 0 0 0 0 0

LoadPattern NodalLoad

p

55 0.0 0 0 0 0 0

LoadPattern NodalLoad

p

56 0.0 0 0 0 0 0

LoadPattern NodalLoad

p

57 0.0 0 0 0 0 0

LoadPattern NodalLoad

p

58 6.1 0 0 0 0 0

LoadPattern NodalLoad

p

59 6.1 0 0 0 0 0

LoadPattern NodalLoad

p

LoadPattern NodalLoad p 60 8.5 0 0 0 0 0

LoadPattern NodalLoad p 61 17.1 0 0 0 0 0

LoadPattern NodalLoad p 62 11.0 0 0 0 0 0

LoadPattern NodalLoad p 63 4.9 0 0 0 0 0

LoadPattern NodalLoad p 64 4.9 0 0 0 0 0

LoadPattern NodalLoad p 65 4.9 0 0 0 0 0

LoadPattern NodalLoad p 66 11.0 0 0 0 0 0

LoadPattern NodalLoad p 67 11.0 0 0 0 0 0

LoadPattern NodalLoad p 68 4.9 0 0 0 0 0

LoadPattern NodalLoad p 69 9.7 0 0 0 0 0

LoadPattern NodalLoad p 70 9.7 0 0 0 0 0

LoadPattern NodalLoad p 71 9.7 0 0 0 0 0

LoadPattern NodalLoad p 72 9.7 0 0 0 0 0

LoadPattern NodalLoad p 73 9.7 0 0 0 0 0

LoadPattern NodalLoad p 74 9.7 0 0 0 0 0

LoadPattern NodalLoad p 75 9.7 0 0 0 0 0

LoadPattern NodalLoad p 76 4.9 0 0 0 0 0

LoadPattern	NodalLoad	p	77	7.3	0	0	0	0	0
LoadPattern	NodalLoad	p	78	9.7	0	0	0	0	0
LoadPattern	NodalLoad	p	79	4.9	0	0	0	0	0
LoadPattern	NodalLoad	p	80	4.9	0	0	0	0	0
LoadPattern	NodalLoad	p	81	4.9	0	0	0	0	0
LoadPattern	NodalLoad	p	82	4.9	0	0	0	0	0
LoadPattern	NodalLoad	p	83	4.9	0	0	0	0	0
LoadPattern	NodalLoad	p	84	4.9	0	0	0	0	0
LoadPattern	NodalLoad	p	85	2.4	0	0	0	0	0
LoadPattern	NodalLoad	p	86	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	87	8.5	0	0	0	0	0
LoadPattern	NodalLoad	p	88	8.5	0	0	0	0	0
LoadPattern	NodalLoad	p	89	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	90	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	91	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	92	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	93	3.7	0	0	0	0	0
LoadPattern	NodalLoad	p	94	3.7	0	0	0	0	0
LoadPattern	NodalLoad	p	95	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	96	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	97	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	98	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	99	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	100	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	101	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	102	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	103	13.9	0	0	0	0	0
LoadPattern	NodalLoad	p	104	27.9	0	0	0	0	0
LoadPattern	NodalLoad	p	105	27.9	0	0	0	0	0
LoadPattern	NodalLoad	p	106	27.9	0	0	0	0	0
LoadPattern	NodalLoad	p	107	27.9	0	0	0	0	0
LoadPattern	NodalLoad	p	108	27.9	0	0	0	0	0
LoadPattern	NodalLoad	p	109	23.0	0	0	0	0	0
LoadPattern	NodalLoad	p	110	15.9	0	0	0	0	0
LoadPattern	NodalLoad	p	111	12.7	0	0	0	0	0
LoadPattern	NodalLoad	p	112	25.4	0	0	0	0	0
LoadPattern	NodalLoad	p	113	25.4	0	0	0	0	0
LoadPattern	NodalLoad	p	114	25.4	0	0	0	0	0
LoadPattern	NodalLoad	p	115	25.4	0	0	0	0	0
LoadPattern	NodalLoad	p	116	25.4	0	0	0	0	0
LoadPattern	NodalLoad	p	117	25.4	0	0	0	0	0
LoadPattern	NodalLoad	p	118	16.4	0	0	0	0	0
LoadPattern	NodalLoad	p	119	7.3	0	0	0	0	0
LoadPattern	NodalLoad	p	120	14.5	0	0	0	0	0
LoadPattern	NodalLoad	p	121	14.5	0	0	0	0	0
LoadPattern	NodalLoad	p	122	14.5	0	0	0	0	0
LoadPattern	NodalLoad	p	123	14.5	0	0	0	0	0
LoadPattern	NodalLoad	p	124	14.5	0	0	0	0	0
LoadPattern	NodalLoad	p	125	14.5	0	0	0	0	0
LoadPattern	NodalLoad	p	126	14.5	0	0	0	0	0
LoadPattern	NodalLoad	p	127	8.1	0	0	0	0	0
LoadPattern	NodalLoad	p	128	10.9	0	0	0	0	0
LoadPattern	NodalLoad	p	129	25.0	0	0	0	0	0

LoadPattern	NodalLoad	p	130	25.0	0	0	0	0	0
LoadPattern	NodalLoad	p	131	28.2	0	0	0	0	0
LoadPattern	NodalLoad	p	132	25.0	0	0	0	0	0
LoadPattern	NodalLoad	p	133	28.2	0	0	0	0	0
LoadPattern	NodalLoad	p	134	25.0	0	0	0	0	0
LoadPattern	NodalLoad	p	135	28.2	0	0	0	0	0
LoadPattern	NodalLoad	p	136	21.4	0	0	0	0	0
LoadPattern	NodalLoad	p	137	10.5	0	0	0	0	0
LoadPattern	NodalLoad	p	138	12.7	0	0	0	0	0
LoadPattern	NodalLoad	p	139	28.7	0	0	0	0	0
LoadPattern	NodalLoad	p	140	31.7	0	0	0	0	0
LoadPattern	NodalLoad	p	141	31.7	0	0	0	0	0
LoadPattern	NodalLoad	p	142	31.7	0	0	0	0	0
LoadPattern	NodalLoad	p	143	15.9	0	0	0	0	0
LoadPattern	NodalLoad	p	144	5.4	0	0	0	0	0
LoadPattern	NodalLoad	p	145	17.2	0	0	0	0	0
LoadPattern	NodalLoad	p	146	20.3	0	0	0	0	0
LoadPattern	NodalLoad	p	147	23.4	0	0	0	0	0
LoadPattern	NodalLoad	p	148	20.3	0	0	0	0	0
LoadPattern	NodalLoad	p	149	23.4	0	0	0	0	0
LoadPattern	NodalLoad	p	150	20.3	0	0	0	0	0
LoadPattern	NodalLoad	p	151	23.4	0	0	0	0	0
LoadPattern	NodalLoad	p	152	20.3	0	0	0	0	0
LoadPattern	NodalLoad	p	153	11.7	0	0	0	0	0
LoadPattern	NodalLoad	p	154	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	155	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	156	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	157	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	158	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	159	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	160	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	161	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	162	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	163	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	164	17.3	0	0	0	0	0
LoadPattern	NodalLoad	p	165	34.4	0	0	0	0	0
LoadPattern	NodalLoad	p	166	34.4	0	0	0	0	0
LoadPattern	NodalLoad	p	167	34.4	0	0	0	0	0
LoadPattern	NodalLoad	p	168	34.4	0	0	0	0	0
LoadPattern	NodalLoad	p	169	34.4	0	0	0	0	0
LoadPattern	NodalLoad	p	170	34.4	0	0	0	0	0
LoadPattern	NodalLoad	p	171	34.4	0	0	0	0	0
LoadPattern	NodalLoad	p	172	17.3	0	0	0	0	0
LoadPattern	NodalLoad	p	173	51.8	0	0	0	0	0
LoadPattern	NodalLoad	p	174	69.2	0	0	0	0	0
LoadPattern	NodalLoad	p	175	34.4	0	0	0	0	0
LoadPattern	NodalLoad	p	176	34.4	0	0	0	0	0
LoadPattern	NodalLoad	p	177	34.4	0	0	0	0	0
LoadPattern	NodalLoad	p	178	34.4	0	0	0	0	0
LoadPattern	NodalLoad	p	179	34.4	0	0	0	0	0
LoadPattern	NodalLoad	p	180	34.4	0	0	0	0	0
LoadPattern	NodalLoad	p	181	17.3	0	0	0	0	0
LoadPattern	NodalLoad	p	182	0.0	0	0	0	0	0

LoadPattern	NodalLoad	p	183	60.5	0	0	0	0	0
LoadPattern	NodalLoad	p	184	60.5	0	0	0	0	0
LoadPattern	NodalLoad	p	185	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	186	25.9	0	0	0	0	0
LoadPattern	NodalLoad	p	187	25.9	0	0	0	0	0
LoadPattern	NodalLoad	p	188	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	189	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	190	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	191	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	192	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	193	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	194	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	195	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	196	19.7	0	0	0	0	0
LoadPattern	NodalLoad	p	197	55.1	0	0	0	0	0
LoadPattern	NodalLoad	p	198	55.1	0	0	0	0	0
LoadPattern	NodalLoad	p	199	55.1	0	0	0	0	0
LoadPattern	NodalLoad	p	200	55.1	0	0	0	0	0
LoadPattern	NodalLoad	p	201	55.1	0	0	0	0	0
LoadPattern	NodalLoad	p	202	55.1	0	0	0	0	0
LoadPattern	NodalLoad	p	203	19.7	0	0	0	0	0
LoadPattern	NodalLoad	p	204	27.6	0	0	0	0	0
LoadPattern	NodalLoad	p	205	35.3	0	0	0	0	0
LoadPattern	NodalLoad	p	206	15.8	0	0	0	0	0
LoadPattern	NodalLoad	p	207	71.1	0	0	0	0	0
LoadPattern	NodalLoad	p	208	71.1	0	0	0	0	0
LoadPattern	NodalLoad	p	209	71.1	0	0	0	0	0
LoadPattern	NodalLoad	p	210	71.1	0	0	0	0	0
LoadPattern	NodalLoad	p	211	71.1	0	0	0	0	0
LoadPattern	NodalLoad	p	212	71.1	0	0	0	0	0
LoadPattern	NodalLoad	p	213	31.6	0	0	0	0	0
LoadPattern	NodalLoad	p	214	7.9	0	0	0	0	0
LoadPattern	NodalLoad	p	215	23.7	0	0	0	0	0
LoadPattern	NodalLoad	p	216	31.6	0	0	0	0	0
LoadPattern	NodalLoad	p	217	15.7	0	0	0	0	0
LoadPattern	NodalLoad	p	218	15.7	0	0	0	0	0
LoadPattern	NodalLoad	p	219	15.7	0	0	0	0	0
LoadPattern	NodalLoad	p	220	15.7	0	0	0	0	0
LoadPattern	NodalLoad	p	221	15.7	0	0	0	0	0
LoadPattern	NodalLoad	p	222	15.7	0	0	0	0	0
LoadPattern	NodalLoad	p	223	7.9	0	0	0	0	0
LoadPattern	NodalLoad	p	224	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	225	27.6	0	0	0	0	0
LoadPattern	NodalLoad	p	226	27.6	0	0	0	0	0
LoadPattern	NodalLoad	p	227	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	228	11.8	0	0	0	0	0
LoadPattern	NodalLoad	p	229	11.8	0	0	0	0	0
LoadPattern	NodalLoad	p	230	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	231	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	232	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	233	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	234	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	235	0.0	0	0	0	0	0

LoadPattern	NodalLoad	p	236	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	237	0.0	0	0	0	0	0
LoadPattern	NodalLoad	p	238	24.4	0	0	0	0	0
LoadPattern	NodalLoad	p	239	61.7	0	0	0	0	0
LoadPattern	NodalLoad	p	240	61.7	0	0	0	0	0
LoadPattern	NodalLoad	p	241	61.7	0	0	0	0	0
LoadPattern	NodalLoad	p	242	61.7	0	0	0	0	0
LoadPattern	NodalLoad	p	243	61.7	0	0	0	0	0
LoadPattern	NodalLoad	p	244	53.0	0	0	0	0	0
LoadPattern	NodalLoad	p	245	15.9	0	0	0	0	0
LoadPattern	NodalLoad	p	246	22.3	0	0	0	0	0
LoadPattern	NodalLoad	p	247	28.7	0	0	0	0	0
LoadPattern	NodalLoad	p	248	12.7	0	0	0	0	0
LoadPattern	NodalLoad	p	249	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	250	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	251	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	252	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	253	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	254	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	255	25.5	0	0	0	0	0
LoadPattern	NodalLoad	p	256	19.1	0	0	0	0	0
LoadPattern	NodalLoad	p	257	19.1	0	0	0	0	0
LoadPattern	NodalLoad	p	258	38.2	0	0	0	0	0
LoadPattern	NodalLoad	p	259	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	260	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	261	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	262	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	263	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	264	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	265	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	266	12.7	0	0	0	0	0
LoadPattern	NodalLoad	p	267	22.3	0	0	0	0	0
LoadPattern	NodalLoad	p	268	44.6	0	0	0	0	0
LoadPattern	NodalLoad	p	269	22.3	0	0	0	0	0
LoadPattern	NodalLoad	p	270	9.6	0	0	0	0	0
LoadPattern	NodalLoad	p	271	19.1	0	0	0	0	0
LoadPattern	NodalLoad	p	272	44.6	0	0	0	0	0
LoadPattern	NodalLoad	p	273	51.0	0	0	0	0	0
LoadPattern	NodalLoad	p	274	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	275	57.3	0	0	0	0	0
LoadPattern	NodalLoad	p	276	51.0	0	0	0	0	0
LoadPattern	NodalLoad	p	277	44.6	0	0	0	0	0
LoadPattern	NodalLoad	p	278	44.6	0	0	0	0	0
LoadPattern	NodalLoad	p	279	9.6	0	0	0	0	0
LoadPattern	NodalLoad	p	280	31.5	0	0	0	0	0
LoadPattern	NodalLoad	p	281	79.8	0	0	0	0	0
LoadPattern	NodalLoad	p	282	79.8	0	0	0	0	0
LoadPattern	NodalLoad	p	283	79.8	0	0	0	0	0
LoadPattern	NodalLoad	p	284	79.8	0	0	0	0	0
LoadPattern	NodalLoad	p	285	79.8	0	0	0	0	0
LoadPattern	NodalLoad	p	286	68.5	0	0	0	0	0
LoadPattern	NodalLoad	p	287	20.6	0	0	0	0	0
LoadPattern	NodalLoad	p	288	28.9	0	0	0	0	0

LoadPattern	NodalLoad	p	289	37.1	0	0	0	0	0
LoadPattern	NodalLoad	p	290	16.5	0	0	0	0	0
LoadPattern	NodalLoad	p	291	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	292	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	293	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	294	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	295	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	296	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	297	33.0	0	0	0	0	0
LoadPattern	NodalLoad	p	298	24.8	0	0	0	0	0
LoadPattern	NodalLoad	p	299	24.8	0	0	0	0	0
LoadPattern	NodalLoad	p	300	49.5	0	0	0	0	0
LoadPattern	NodalLoad	p	301	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	302	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	303	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	304	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	305	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	306	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	307	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	308	16.5	0	0	0	0	0
LoadPattern	NodalLoad	p	309	28.9	0	0	0	0	0
LoadPattern	NodalLoad	p	310	57.7	0	0	0	0	0
LoadPattern	NodalLoad	p	311	28.9	0	0	0	0	0
LoadPattern	NodalLoad	p	312	12.4	0	0	0	0	0
LoadPattern	NodalLoad	p	313	24.8	0	0	0	0	0
LoadPattern	NodalLoad	p	314	57.7	0	0	0	0	0
LoadPattern	NodalLoad	p	315	66.0	0	0	0	0	0
LoadPattern	NodalLoad	p	316	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	317	74.1	0	0	0	0	0
LoadPattern	NodalLoad	p	318	66.0	0	0	0	0	0
LoadPattern	NodalLoad	p	319	57.7	0	0	0	0	0
LoadPattern	NodalLoad	p	320	57.7	0	0	0	0	0
LoadPattern	NodalLoad	p	321	12.4	0	0	0	0	0
LoadPattern	NodalLoad	p	322	34.9	0	0	0	0	0
LoadPattern	NodalLoad	p	323	88.4	0	0	0	0	0
LoadPattern	NodalLoad	p	324	88.4	0	0	0	0	0
LoadPattern	NodalLoad	p	325	88.4	0	0	0	0	0
LoadPattern	NodalLoad	p	326	88.4	0	0	0	0	0
LoadPattern	NodalLoad	p	327	88.4	0	0	0	0	0
LoadPattern	NodalLoad	p	328	75.9	0	0	0	0	0
LoadPattern	NodalLoad	p	329	22.8	0	0	0	0	0
LoadPattern	NodalLoad	p	330	31.9	0	0	0	0	0
LoadPattern	NodalLoad	p	331	41.1	0	0	0	0	0
LoadPattern	NodalLoad	p	332	18.3	0	0	0	0	0
LoadPattern	NodalLoad	p	333	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	334	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	335	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	336	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	337	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	338	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	339	36.5	0	0	0	0	0
LoadPattern	NodalLoad	p	340	27.4	0	0	0	0	0
LoadPattern	NodalLoad	p	341	27.4	0	0	0	0	0

LoadPattern	NodalLoad	p	342	54.8	0	0	0	0	0
LoadPattern	NodalLoad	p	343	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	344	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	345	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	346	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	347	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	348	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	349	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	350	18.3	0	0	0	0	0
LoadPattern	NodalLoad	p	351	31.9	0	0	0	0	0
LoadPattern	NodalLoad	p	352	63.9	0	0	0	0	0
LoadPattern	NodalLoad	p	353	31.9	0	0	0	0	0
LoadPattern	NodalLoad	p	354	13.7	0	0	0	0	0
LoadPattern	NodalLoad	p	355	27.4	0	0	0	0	0
LoadPattern	NodalLoad	p	356	63.9	0	0	0	0	0
LoadPattern	NodalLoad	p	357	73.1	0	0	0	0	0
LoadPattern	NodalLoad	p	358	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	359	82.1	0	0	0	0	0
LoadPattern	NodalLoad	p	360	73.1	0	0	0	0	0
LoadPattern	NodalLoad	p	361	63.9	0	0	0	0	0
LoadPattern	NodalLoad	p	362	63.9	0	0	0	0	0
LoadPattern	NodalLoad	p	363	13.7	0	0	0	0	0

----Output Setting Command----

//Output	OutFlag	NodeIntv?	ElemIntv?	EvpIntv?	NodeCode?	ElemCode?	
EnergyIntv?	F_GpIntv?						
Output							outflag
1							1
0	2						2
1	1						
//Output	NodeAbs	NodeTag1?	NodeTag2?				...
NodeTagN?							
Output	NodeAbs	322 330 332 341 351 354					

----Analysis Method Command----

//Analysis	ModeShape	reqdModes?	ID_M1?	ID_M2?		C1?
C2?						
/Analysis	ModeShape					6 1
						2
0.05						0.05

----Node Generation Command----

//Node Tag?						X?
Y?	Z?					
/GROUND						
Node	1	0	0	0		

Node	2	8	0	0
Node	3	16	0	0
Node	4	24	0	0
Node	5	32	0	0
Node	6	40	0	0
Node	7	48	0	0
Node	8	56	0	0
Node	52	0	6	0
Node	53	8	6	0
Node	54	16	6	0
Node	55	24	6	0
Node	56	32	6	0
Node	57	40	6	0
Node	58	48	6	0
Node	59	56	6	0
Node	103	0	10	0
Node	104	8	10	0
Node	105	16	10	0
Node	106	24	10	0
Node	107	32	10	0
Node	108	40	10	0
Node	109	48	10	0
Node	110	56	10	0
Node	154	0	16	0
Node	155	8	16	0
Node	156	16	16	0
Node	157	24	16	0
Node	158	32	16	0
Node	159	40	16	0
Node	160	48	16	0
Node	161	56	16	0
Node	196	0	20	0
Node	197	8	20	0
Node	198	16	20	0
Node	199	24	20	0
Node	200	32	20	0
Node	201	40	20	0
Node	202	48	20	0
Node	203	56	20	0
Node	238	0	24	0
Node	239	8	24	0
Node	240	16	24	0
Node	241	24	24	0
Node	242	32	24	0
Node	243	40	24	0
Node	244	48	24	0
Node	245	56	24	0
Node	280	0	29	0
Node	281	8	29	0
Node	282	16	29	0
Node	283	24	29	0
Node	284	32	29	0
Node	285	40	29	0



Node	286	48	29	0
Node	287	56	29	0
Node	322	0	35	0
Node	323	8	35	0
Node	324	16	35	0
Node	325	24	35	0
Node	326	32	35	0
Node	327	40	35	0
Node	328	48	35	0
Node	329	56	35	0
Node	364	1.68	6	0
Node	365	6.32	6	0
Node	366	9.68	6	0
Node	367	14.32	6	0
Node	368	49.68	6	0
Node	369	54.32	6	0
Node	438	1.68	10	0
Node	439	6.32	10	0
Node	440	9.68	10	0
Node	441	14.32	10	0
Node	442	17.68	10	0
Node	443	22.32	10	0
Node	444	25.68	10	0
Node	445	30.32	10	0
Node	446	33.68	10	0
Node	447	38.32	10	0
Node	448	41.68	10	0
Node	449	46.32	10	0
Node	450	49.68	10	0
Node	451	54.32	10	0
Node	528	1.68	16	0
Node	529	6.32	16	0
Node	530	9.68	16	0
Node	531	14.32	16	0
Node	532	17.68	16	0
Node	533	22.32	16	0
Node	534	25.68	16	0
Node	535	30.32	16	0
Node	536	33.68	16	0
Node	537	38.32	16	0
Node	538	41.68	16	0
Node	539	46.32	16	0
Node	540	49.68	16	0
Node	541	54.32	16	0
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Node	598	9.68	20	0
Node	599	14.32	20	0
Node	600	17.68	20	0
Node	601	22.32	20	0
Node	602	25.68	20	0
Node	603	30.32	20	0
Node	604	33.68	20	0



Node	605	38.32	20	0
Node	606	41.68	20	0
Node	607	46.32	20	0
Node	608	49.68	20	0
Node	609	54.32	20	0
Node	664	1.68	24	0
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Node	667	14.32	24	0
Node	668	17.68	24	0
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Node	670	25.68	24	0
Node	671	30.32	24	0
Node	672	33.68	24	0
Node	673	38.32	24	0
Node	674	41.68	24	0
Node	675	46.32	24	0
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Node	736	17.68	29	0
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Node	739	30.32	29	0
Node	740	33.68	29	0
Node	741	38.32	29	0
Node	742	41.68	29	0
Node	743	46.32	29	0
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Node	804	17.68	35	0
Node	805	22.32	35	0
Node	806	25.68	35	0
Node	807	30.32	35	0
Node	808	33.68	35	0
Node	809	38.32	35	0
Node	810	41.68	35	0
Node	811	46.32	35	0
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Node	813	54.32	35	0
Node	9	0	0	10
Node	10	8	0	10
Node	11	16	0	10
Node	12	24	0	10
Node	13	32	0	10
Node	14	40	0	10



Node	15	48	0	10
Node	16	56	0	10
Node	60	0	6	10
Node	61	8	6	10
Node	62	16	6	10
Node	63	24	6	10
Node	64	32	6	10
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Node	114	24	10	10
Node	115	32	10	10
Node	116	40	10	10
Node	117	48	10	10
Node	118	56	10	10
Node	162	0	16	10
Node	163	56	16	10
Node	204	0	20	10
Node	205	56	20	10
Node	246	0	24	10
Node	247	56	24	10
Node	288	0	29	10
Node	289	56	29	10
Node	330	0	35	10
Node	331	56	35	10
Node	370	1.68	6	10
Node	371	6.32	6	10
Node	372	9.68	6	10
Node	373	14.32	6	10
Node	374	17.68	6	10
Node	375	22.32	6	10
Node	376	25.68	6	10
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Node	457	22.32	10	10
Node	458	25.68	10	10
Node	459	30.32	10	10
Node	460	33.68	10	10
Node	461	38.32	10	10
Node	462	41.68	10	10



Node	463	46.32	10	10
Node	464	49.68	10	10
Node	465	54.32	10	10
Node	17	0	0	14
Node	18	8	0	14
Node	19	16	0	14
Node	20	24	0	14
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Node	171	56	16	14
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Node	214	64	20	14
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Node	249	8	24	14
Node	250	16	24	14
Node	251	24	24	14
Node	252	32	24	14



Node	253	40	24	14
Node	254	48	24	14
Node	255	56	24	14
Node	256	64	24	14
Node	290	0	29	14
Node	291	8	29	14
Node	292	16	29	14
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Node	295	40	29	14
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Node	297	56	29	14
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Node	333	8	35	14
Node	334	16	35	14
Node	335	24	35	14
Node	336	32	35	14
Node	337	40	35	14
Node	338	48	35	14
Node	339	56	35	14
Node	340	64	35	14
Node	384	1.68	6	14
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Node	386	9.68	6	14
Node	387	14.32	6	14
Node	388	17.68	6	14
Node	389	22.32	6	14
Node	390	25.68	6	14
Node	391	30.32	6	14
Node	392	33.68	6	14
Node	393	38.32	6	14
Node	394	41.68	6	14
Node	395	46.32	6	14
Node	396	49.68	6	14
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Node	474	33.68	10	14
Node	475	38.32	10	14
Node	476	41.68	10	14
Node	477	46.32	10	14
Node	478	49.68	10	14
Node	479	54.32	10	14
Node	480	57.68	10	14



Node	481	62.32	10	14
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Node	543	6.32	16	14
Node	544	9.68	16	14
Node	545	14.32	16	14
Node	546	17.68	16	14
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Node	750	17.68	29	14
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Node	817	14.32	35	14
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Node	819	22.32	35	14
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Node	821	30.32	35	14
Node	822	33.68	35	14
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Node	28	16	0	18
Node	29	24	0	18
Node	30	32	0	18
Node	31	40	0	18
Node	32	48	0	18
Node	33	56	0	18
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Node	86	72	6	18
Node	128	0	10	18
Node	129	8	10	18
Node	130	16	10	18
Node	131	24	10	18
Node	132	32	10	18



Node	133	40	10	18
Node	134	48	10	18
Node	135	56	10	18
Node	136	64	10	18
Node	137	72	10	18
Node	173	0	16	18
Node	174	8	16	18
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Node	343	16	35	18
Node	344	24	35	18
Node	345	32	35	18
Node	346	40	35	18
Node	347	48	35	18
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Node	349	64	35	18
Node	350	72	35	18
Node	400	1.68	6	18
Node	401	6.32	6	18
Node	402	9.68	6	18
Node	403	14.32	6	18
Node	404	17.68	6	18
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Node	410	41.68	6	18
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Node	562	17.68	16	18
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Node	564	25.68	16	18
Node	565	30.32	16	18
Node	566	33.68	16	18
Node	567	38.32	16	18
Node	568	41.68	16	18
Node	569	46.32	16	18
Node	570	49.68	16	18
Node	571	54.32	16	18
Node	572	57.68	16	18



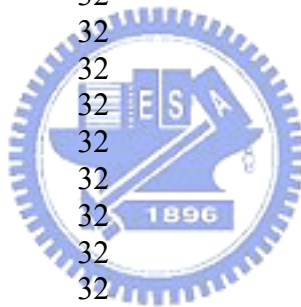
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Node	574	65.68	16	18
Node	575	70.32	16	18
Node	626	1.68	20	18
Node	627	6.32	20	18
Node	628	9.68	20	18
Node	629	14.32	20	18
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Node	640	57.68	20	18
Node	641	62.32	20	18
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Node	311	72	29	26
Node	351	0	35	26
Node	352	8	35	26
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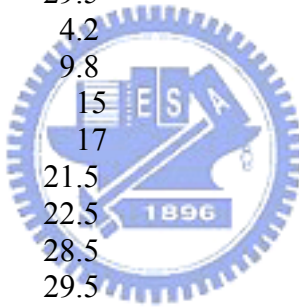
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Node	849	6.32	35	26
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Node	1155	0	16	3.33
Node	1193	0	20	3.33
Node	1243	0	24	3.33
Node	1307	0	29	3.33
Node	1371	0	35	3.33
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Node	1156	0	16	6.67
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Node	1372	0	35	6.67
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Node	1245	0	24	11
Node	1309	0	29	11
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Node	1077	0	10	15
Node	1159	0	16	15
Node	1197	0	20	15
Node	1247	0	24	15
Node	1311	0	29	15
Node	1375	0	35	15



Node 1006	0	6	17
Node 1078	0	10	17
Node 1160	0	16	17
Node 1198	0	20	17
Node 1248	0	24	17
Node 1312	0	29	17
Node 1376	0	35	17
Node 1007	0	6	21.5
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Node 1161	0	16	21.5
Node 1199	0	20	21.5
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Node 1377	0	35	21.5
Node 1008	0	6	22.5
Node 1080	0	10	22.5
Node 1162	0	16	22.5
Node 1200	0	20	22.5
Node 1250	0	24	22.5
Node 1314	0	29	22.5
Node 1378	0	35	22.5
Node 1009	0	6	28.5
Node 1081	0	10	28.5
Node 1163	0	16	28.5
Node 1201	0	20	28.5
Node 1251	0	24	28.5
Node 1315	0	29	28.5
Node 1379	0	35	28.5
Node 1010	0	6	29.5
Node 1082	0	10	29.5
Node 1164	0	16	29.5
Node 1202	0	20	29.5
Node 1252	0	24	29.5
Node 1316	0	29	29.5
Node 1380	0	35	29.5
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Node 1012	8	6	6.67
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Node 1015	8	6	15
Node 1016	8	6	17
Node 1017	8	6	21.5
Node 1018	8	6	22.5
Node 1019	8	6	28.5
Node 1020	8	6	29.5
Node 1083	8	10	3.33
Node 1084	8	10	6.67
Node 1085	8	10	11
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Node 1087	8	10	15
Node 1088	8	10	17
Node 1089	8	10	21.5
Node 1090	8	10	22.5



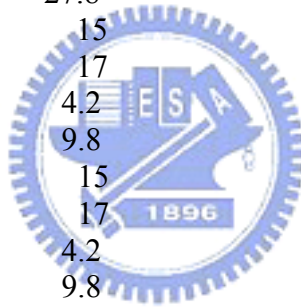
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Node 1254	8	24	9.8
Node 1255	8	24	15
Node 1256	8	24	17
Node 1257	8	24	21.5
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Node 1259	8	24	28.5
Node 1260	8	24	29.5
Node 1317	8	29	4.2
Node 1318	8	29	9.8
Node 1319	8	29	15
Node 1320	8	29	17
Node 1321	8	29	21.5
Node 1322	8	29	22.5
Node 1323	8	29	28.5
Node 1324	8	29	29.5
Node 1381	8	35	4.2
Node 1382	8	35	9.8
Node 1383	8	35	15
Node 1384	8	35	17
Node 1385	8	35	21.5
Node 1386	8	35	22.5
Node 1387	8	35	28.5
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Node 1021	16	6	3.33
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Node 1024	16	6	13
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Node 1093	16	10	3.33
Node 1094	16	10	6.67
Node 1095	16	10	11
Node 1096	16	10	13
Node 1097	16	10	15
Node 1098	16	10	17
Node 1099	16	10	22.2



Node 1100	16	10	27.8
Node 1171	16	16	15
Node 1172	16	16	17
Node 1211	16	20	4.2
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Node 1213	16	20	15
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Node 1393	16	35	22.2
Node 1394	16	35	27.8
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Node 1114	32	10	13
Node 1115	32	10	15
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Node 1219	32	20	4.2
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Node 1277	32	24	22.2
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Node 1337	32	29	4.2
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Node 1339	32	29	15
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Node 1341	32	29	22.2
Node 1342	32	29	27.8
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Node 1406	32	35	27.8
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Node 1349	48	29	4.2
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Node 1353	48	29	22.2
Node 1354	48	29	27.8
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Node 1418	48	35	27.8
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Node 1104	24	10	13
Node 1105	24	10	15
Node 1106	24	10	17
Node 1107	24	10	21.5
Node 1108	24	10	22.5
Node 1109	24	10	28.5
Node 1110	24	10	29.5
Node 1173	24	16	15
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Node 1215	24	20	4.2
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Node 1267	24	24	4.2
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Node 1333	24	29	15
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Node 1335	24	29	22.2
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Node 1397	24	35	15
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Node 1399	24	35	22.2
Node 1400	24	35	27.8
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Node 1119	40	10	3.33
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Node 1124	40	10	17



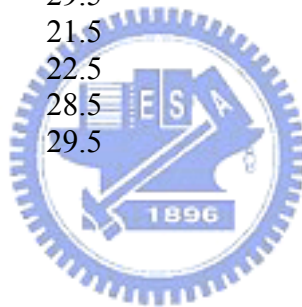
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Node	1345	40	29	15
Node	1346	40	29	17
Node	1347	40	29	22.2
Node	1348	40	29	27.8
Node	1407	40	35	4.2
Node	1408	40	35	9.8
Node	1409	40	35	15
Node	1410	40	35	17
Node	1411	40	35	22.2
Node	1412	40	35	27.8
Node	1057	56	6	3.33
Node	1058	56	6	6.67
Node	1059	56	6	11
Node	1060	56	6	13
Node	1061	56	6	15
Node	1062	56	6	17
Node	1063	56	6	21.5
Node	1064	56	6	22.5
Node	1065	56	6	28.5
Node	1066	56	6	29.5
Node	1137	56	10	3.33
Node	1138	56	10	6.67
Node	1139	56	10	11
Node	1140	56	10	13
Node	1141	56	10	15
Node	1142	56	10	17
Node	1143	56	10	21.5
Node	1144	56	10	22.5
Node	1145	56	10	28.5
Node	1146	56	10	29.5
Node	1181	56	16	3.33
Node	1182	56	16	6.67
Node	1183	56	16	11
Node	1184	56	16	13
Node	1185	56	16	15



Node 1186	56	16	17
Node 1231	56	20	3.33
Node 1232	56	20	6.67
Node 1233	56	20	11
Node 1234	56	20	13
Node 1235	56	20	15
Node 1236	56	20	17
Node 1291	56	24	3.33
Node 1292	56	24	6.67
Node 1293	56	24	11
Node 1294	56	24	13
Node 1295	56	24	15
Node 1296	56	24	17
Node 1297	56	24	22.2
Node 1298	56	24	27.8
Node 1355	56	29	3.33
Node 1356	56	29	6.67
Node 1357	56	29	11
Node 1358	56	29	13
Node 1359	56	29	15
Node 1360	56	29	17
Node 1361	56	29	22.2
Node 1362	56	29	27.8
Node 1419	56	35	3.33
Node 1420	56	35	6.67
Node 1421	56	35	11
Node 1422	56	35	13
Node 1423	56	35	15
Node 1424	56	35	17
Node 1425	56	35	22.2
Node 1426	56	35	27.8
Node 1067	64	6	15
Node 1068	64	6	17
Node 1187	64	16	15
Node 1188	64	16	17
Node 1237	64	20	15
Node 1238	64	20	17
Node 1147	64	10	15
Node 1148	64	10	17
Node 1149	64	10	22.2
Node 1150	64	10	27.8
Node 1299	64	24	15
Node 1300	64	24	17
Node 1301	64	24	22.2
Node 1302	64	24	27.8
Node 1363	64	29	15
Node 1364	64	29	17
Node 1365	64	29	22.2
Node 1366	64	29	27.8
Node 1427	64	35	15
Node 1428	64	35	17
Node 1429	64	35	22.2
Node 1430	64	35	27.8



Node	1069	72	6	21.5
Node	1070	72	6	22.5
Node	1071	72	6	28.5
Node	1072	72	6	29.5
Node	1151	72	10	21.5
Node	1152	72	10	22.5
Node	1153	72	10	28.5
Node	1154	72	10	29.5
Node	1189	72	16	21.5
Node	1190	72	16	22.5
Node	1191	72	16	28.5
Node	1192	72	16	29.5
Node	1239	72	20	21.5
Node	1240	72	20	22.5
Node	1241	72	20	28.5
Node	1242	72	20	29.5
Node	1303	72	24	21.5
Node	1304	72	24	22.5
Node	1305	72	24	28.5
Node	1306	72	24	29.5
Node	1367	72	29	21.5
Node	1368	72	29	22.5
Node	1369	72	29	28.5
Node	1370	72	29	29.5
Node	1431	72	35	21.5
Node	1432	72	35	22.5
Node	1433	72	35	28.5
Node	1434	72	35	29.5



----Nodal Lump Mass Assign----

//Mass	node?	UX?	UY?	UZ?	RX?	RY?	RZ?
mass	52	115	0	115	0	0	0
mass	53	230	0	230	0	0	0
mass	54	115	0	115	0	0	0
mass	55	0	0	0	0	0	0
mass	56	0	0	0	0	0	0
mass	57	0	0	0	0	0	0
mass	58	75.2	0	75.2	0	0	0
mass	59	75.2	0	75.2	0	0	0
mass	60	105	0	105	0	0	0
mass	61	211	0	211	0	0	0
mass	62	135	0	135	0	0	0
mass	63	60.2	0	60.2	0	0	0
mass	64	60.2	0	60.2	0	0	0
mass	65	60.2	0	60.2	0	0	0
mass	66	135	0	135	0	0	0
mass	67	135	0	135	0	0	0
mass	68	60.2	0	60.2	0	0	0
mass	69	120	0	120	0	0	0

mass	70	120	0	120	0	0	0
mass	71	120	0	120	0	0	0
mass	72	120	0	120	0	0	0
mass	73	120	0	120	0	0	0
mass	74	120	0	120	0	0	0
mass	75	120	0	120	0	0	0
mass	76	60.2	0	60.2	0	0	0
mass	77	90.2	0	90.2	0	0	0
mass	78	120	0	120	0	0	0
mass	79	60.2	0	60.2	0	0	0
mass	80	60.2	0	60.2	0	0	0
mass	81	60.2	0	60.2	0	0	0
mass	82	60.2	0	60.2	0	0	0
mass	83	60.2	0	60.2	0	0	0
mass	84	60.2	0	60.2	0	0	0
mass	85	30.1	0	30.1	0	0	0
mass	86	0	0	0	0	0	0
mass	87	105	0	105	0	0	0
mass	88	105	0	105	0	0	0
mass	89	0	0	0	0	0	0
mass	90	0	0	0	0	0	0
mass	91	0	0	0	0	0	0
mass	92	0	0	0	0	0	0
mass	93	45.1	0	45.1	0	0	0
mass	94	45.1	0	45.1	0	0	0
mass	95	0	0	0	0	0	0
mass	96	0	0	0	0	0	0
mass	97	0	0	0	0	0	0
mass	98	0	0	0	0	0	0
mass	99	0	0	0	0	0	0
mass	100	0	0	0	0	0	0
mass	101	0	0	0	0	0	0
mass	102	0	0	0	0	0	0
mass	103	86.4	0	86.4	0	0	0
mass	104	173	0	173	0	0	0
mass	105	173	0	173	0	0	0
mass	106	173	0	173	0	0	0
mass	107	173	0	173	0	0	0
mass	108	173	0	173	0	0	0
mass	109	143	0	143	0	0	0
mass	110	98.7	0	98.7	0	0	0
mass	111	79	0	79	0	0	0
mass	112	158	0	158	0	0	0
mass	113	158	0	158	0	0	0
mass	114	158	0	158	0	0	0
mass	115	158	0	158	0	0	0
mass	116	158	0	158	0	0	0
mass	117	158	0	158	0	0	0
mass	118	102	0	102	0	0	0
mass	119	45.2	0	45.2	0	0	0
mass	120	90.2	0	90.2	0	0	0
mass	121	90.2	0	90.2	0	0	0
mass	122	90.2	0	90.2	0	0	0

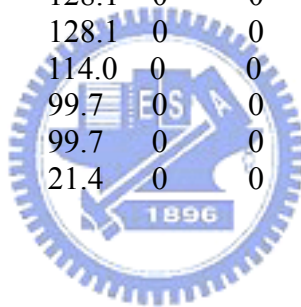
mass	123	90.2	0	90.2	0	0	0
mass	124	90.2	0	90.2	0	0	0
mass	125	90.2	0	90.2	0	0	0
mass	126	90.2	0	90.2	0	0	0
mass	127	50	0	50	0	0	0
mass	128	67.7	0	67.7	0	0	0
mass	129	155	0	155	0	0	0
mass	130	155	0	155	0	0	0
mass	131	175	0	175	0	0	0
mass	132	155	0	155	0	0	0
mass	133	175	0	175	0	0	0
mass	134	155	0	155	0	0	0
mass	135	175	0	175	0	0	0
mass	136	133	0	133	0	0	0
mass	137	64.9	0	64.9	0	0	0
mass	138	79	0	79	0	0	0
mass	139	178	0	178	0	0	0
mass	140	197	0	197	0	0	0
mass	141	197	0	197	0	0	0
mass	142	197	0	197	0	0	0
mass	143	98.7	0	98.7	0	0	0
mass	144	33.8	0	33.8	0	0	0
mass	145	107	0	107	0	0	0
mass	146	126	0	126	0	0	0
mass	147	145	0	145	0	0	0
mass	148	126	0	126	0	0	0
mass	149	145	0	145	0	0	0
mass	150	126	0	126	0	0	0
mass	151	145	0	145	0	0	0
mass	152	126	0	126	0	0	0
mass	153	72.8	0	72.8	0	0	0
mass	154	0	0	0	0	0	0
mass	155	0	0	0	0	0	0
mass	156	0	0	0	0	0	0
mass	157	0	0	0	0	0	0
mass	158	0	0	0	0	0	0
mass	159	0	0	0	0	0	0
mass	160	0	0	0	0	0	0
mass	161	0	0	0	0	0	0
mass	162	0	0	0	0	0	0
mass	163	0	0	0	0	0	0
mass	164	53.7	0	53.7	0	0	0
mass	165	107	0	107	0	0	0
mass	166	107	0	107	0	0	0
mass	167	107	0	107	0	0	0
mass	168	107	0	107	0	0	0
mass	169	107	0	107	0	0	0
mass	170	107	0	107	0	0	0
mass	171	107	0	107	0	0	0
mass	172	53.7	0	53.7	0	0	0
mass	173	161	0	161	0	0	0
mass	174	215	0	215	0	0	0
mass	175	107	0	107	0	0	0

mass	176	107	0	107	0	0	0
mass	177	107	0	107	0	0	0
mass	178	107	0	107	0	0	0
mass	179	107	0	107	0	0	0
mass	180	107	0	107	0	0	0
mass	181	53.7	0	53.7	0	0	0
mass	182	0	0	0	0	0	0
mass	183	188	0	188	0	0	0
mass	184	188	0	188	0	0	0
mass	185	0	0	0	0	0	0
mass	186	80.5	0	80.5	0	0	0
mass	187	80.5	0	80.5	0	0	0
mass	188	0	0	0	0	0	0
mass	189	0	0	0	0	0	0
mass	190	0	0	0	0	0	0
mass	191	0	0	0	0	0	0
mass	192	0	0	0	0	0	0
mass	193	0	0	0	0	0	0
mass	194	0	0	0	0	0	0
mass	195	0	0	0	0	0	0
mass	196	48	0	48	0	0	0
mass	197	134	0	134	0	0	0
mass	198	134	0	134	0	0	0
mass	199	134	0	134	0	0	0
mass	200	134	0	134	0	0	0
mass	201	134	0	134	0	0	0
mass	202	134	0	134	0	0	0
mass	203	48	0	48	0	0	0
mass	204	67.2	0	67.2	0	0	0
mass	205	86	0	86	0	0	0
mass	206	38.4	0	38.4	0	0	0
mass	207	173	0	173	0	0	0
mass	208	173	0	173	0	0	0
mass	209	173	0	173	0	0	0
mass	210	173	0	173	0	0	0
mass	211	173	0	173	0	0	0
mass	212	173	0	173	0	0	0
mass	213	76.8	0	76.8	0	0	0
mass	214	19.2	0	19.2	0	0	0
mass	215	57.6	0	57.6	0	0	0
mass	216	76.9	0	76.9	0	0	0
mass	217	38.3	0	38.3	0	0	0
mass	218	38.3	0	38.3	0	0	0
mass	219	38.3	0	38.3	0	0	0
mass	220	38.3	0	38.3	0	0	0
mass	221	38.3	0	38.3	0	0	0
mass	222	38.3	0	38.3	0	0	0
mass	223	19.2	0	19.2	0	0	0
mass	224	0	0	0	0	0	0
mass	225	67.2	0	67.2	0	0	0
mass	226	67.2	0	67.2	0	0	0
mass	227	0	0	0	0	0	0
mass	228	28.8	0	28.8	0	0	0

mass	229	28.8	0	28.8	0	0	0
mass	230	0	0	0	0	0	0
mass	231	0	0	0	0	0	0
mass	232	0	0	0	0	0	0
mass	233	0	0	0	0	0	0
mass	234	0	0	0	0	0	0
mass	235	0	0	0	0	0	0
mass	236	0	0	0	0	0	0
mass	237	0	0	0	0	0	0
mass	238	50.2	0	50.2	0	0	0
mass	239	127	0	127	0	0	0
mass	240	127	0	127	0	0	0
mass	241	127	0	127	0	0	0
mass	242	127	0	127	0	0	0
mass	243	127	0	127	0	0	0
mass	244	109	0	109	0	0	0
mass	245	32.8	0	32.8	0	0	0
mass	246	45.9	0	45.9	0	0	0
mass	247	59	0	59	0	0	0
mass	248	26.2	0	26.2	0	0	0
mass	249	118	0	118	0	0	0
mass	250	118	0	118	0	0	0
mass	251	118	0	118	0	0	0
mass	252	118	0	118	0	0	0
mass	253	118	0	118	0	0	0
mass	254	118	0	118	0	0	0
mass	255	52.5	0	52.5	0	0	0
mass	256	39.4	0	39.4	0	0	0
mass	257	39.4	0	39.4	0	0	0
mass	258	78.7	0	78.7	0	0	0
mass	259	118	0	118	0	0	0
mass	260	118	0	118	0	0	0
mass	261	118	0	118	0	0	0
mass	262	118	0	118	0	0	0
mass	263	118	0	118	0	0	0
mass	264	118	0	118	0	0	0
mass	265	118	0	118	0	0	0
mass	266	26.2	0	26.2	0	0	0
mass	267	45.9	0	45.9	0	0	0
mass	268	91.8	0	91.8	0	0	0
mass	269	45.9	0	45.9	0	0	0
mass	270	19.7	0	19.7	0	0	0
mass	271	39.4	0	39.4	0	0	0
mass	272	91.8	0	91.8	0	0	0
mass	273	105	0	105	0	0	0
mass	274	118	0	118	0	0	0
mass	275	118	0	118	0	0	0
mass	276	105	0	105	0	0	0
mass	277	91.8	0	91.8	0	0	0
mass	278	91.8	0	91.8	0	0	0
mass	279	19.7	0	19.7	0	0	0
mass	280	55.4	0	55.4	0	0	0
mass	281	140.2	0	140.2	0	0	0

mass	282	140.2	0	140.2	0	0	0
mass	283	140.2	0	140.2	0	0	0
mass	284	140.2	0	140.2	0	0	0
mass	285	140.2	0	140.2	0	0	0
mass	286	120.3	0	120.3	0	0	0
mass	287	36.2	0	36.2	0	0	0
mass	288	50.7	0	50.7	0	0	0
mass	289	65.1	0	65.1	0	0	0
mass	290	28.9	0	28.9	0	0	0
mass	291	130.2	0	130.2	0	0	0
mass	292	130.2	0	130.2	0	0	0
mass	293	130.2	0	130.2	0	0	0
mass	294	130.2	0	130.2	0	0	0
mass	295	130.2	0	130.2	0	0	0
mass	296	130.2	0	130.2	0	0	0
mass	297	57.9	0	57.9	0	0	0
mass	298	43.5	0	43.5	0	0	0
mass	299	43.5	0	43.5	0	0	0
mass	300	86.9	0	86.9	0	0	0
mass	301	130.2	0	130.2	0	0	0
mass	302	130.2	0	130.2	0	0	0
mass	303	130.2	0	130.2	0	0	0
mass	304	130.2	0	130.2	0	0	0
mass	305	130.2	0	130.2	0	0	0
mass	306	130.2	0	130.2	0	0	0
mass	307	130.2	0	130.2	0	0	0
mass	308	28.9	0	28.9	0	0	0
mass	309	50.7	0	50.7	0	0	0
mass	310	101.3	0	101.3	0	0	0
mass	311	50.7	0	50.7	0	0	0
mass	312	21.7	0	21.7	0	0	0
mass	313	43.5	0	43.5	0	0	0
mass	314	101.3	0	101.3	0	0	0
mass	315	115.9	0	115.9	0	0	0
mass	316	130.2	0	130.2	0	0	0
mass	317	130.2	0	130.2	0	0	0
mass	318	115.9	0	115.9	0	0	0
mass	319	101.3	0	101.3	0	0	0
mass	320	101.3	0	101.3	0	0	0
mass	321	21.7	0	21.7	0	0	0
mass	322	54.5	0	54.5	0	0	0
mass	323	137.9	0	137.9	0	0	0
mass	324	137.9	0	137.9	0	0	0
mass	325	137.9	0	137.9	0	0	0
mass	326	137.9	0	137.9	0	0	0
mass	327	137.9	0	137.9	0	0	0
mass	328	118.4	0	118.4	0	0	0
mass	329	35.6	0	35.6	0	0	0
mass	330	49.8	0	49.8	0	0	0
mass	331	64.1	0	64.1	0	0	0
mass	332	28.5	0	28.5	0	0	0
mass	333	128.1	0	128.1	0	0	0
mass	334	128.1	0	128.1	0	0	0

mass	335	128.1	0	128.1	0	0	0
mass	336	128.1	0	128.1	0	0	0
mass	337	128.1	0	128.1	0	0	0
mass	338	128.1	0	128.1	0	0	0
mass	339	57.0	0	57.0	0	0	0
mass	340	42.8	0	42.8	0	0	0
mass	341	42.8	0	42.8	0	0	0
mass	342	85.5	0	85.5	0	0	0
mass	343	128.1	0	128.1	0	0	0
mass	344	128.1	0	128.1	0	0	0
mass	345	128.1	0	128.1	0	0	0
mass	346	128.1	0	128.1	0	0	0
mass	347	128.1	0	128.1	0	0	0
mass	348	128.1	0	128.1	0	0	0
mass	349	128.1	0	128.1	0	0	0
mass	350	28.5	0	28.5	0	0	0
mass	351	49.8	0	49.8	0	0	0
mass	352	99.7	0	99.7	0	0	0
mass	353	49.8	0	49.8	0	0	0
mass	354	21.4	0	21.4	0	0	0
mass	355	42.8	0	42.8	0	0	0
mass	356	99.7	0	99.7	0	0	0
mass	357	114.0	0	114.0	0	0	0
mass	358	128.1	0	128.1	0	0	0
mass	359	128.1	0	128.1	0	0	0
mass	360	114.0	0	114.0	0	0	0
mass	361	99.7	0	99.7	0	0	0
mass	362	99.7	0	99.7	0	0	0
mass	363	21.4	0	21.4	0	0	0



----DOF
 Command--
 //DOF Node?
 UZ?

Assign

UX?
 UY?
 RX?
 RY?
 RZ?

DOF	1	-1	-1	-1	-1	-1	-1
DOF	2	-1	-1	-1	-1	-1	-1
DOF	3	-1	-1	-1	-1	-1	-1
DOF	4	-1	-1	-1	-1	-1	-1
DOF	5	-1	-1	-1	-1	-1	-1
DOF	6	-1	-1	-1	-1	-1	-1
DOF	7	-1	-1	-1	-1	-1	-1
DOF	8	-1	-1	-1	-1	-1	-1
DOF	9	-1	-1	-1	-1	-1	-1

DOF	10	-1	-1	-1	-1	-1	-1
DOF	11	-1	-1	-1	-1	-1	-1
DOF	12	-1	-1	-1	-1	-1	-1
DOF	13	-1	-1	-1	-1	-1	-1
DOF	14	-1	-1	-1	-1	-1	-1
DOF	15	-1	-1	-1	-1	-1	-1
DOF	16	-1	-1	-1	-1	-1	-1
DOF	17	-1	-1	-1	-1	-1	-1
DOF	18	-1	-1	-1	-1	-1	-1
DOF	19	-1	-1	-1	-1	-1	-1
DOF	20	-1	-1	-1	-1	-1	-1
DOF	21	-1	-1	-1	-1	-1	-1
DOF	22	-1	-1	-1	-1	-1	-1
DOF	23	-1	-1	-1	-1	-1	-1
DOF	24	-1	-1	-1	-1	-1	-1
DOF	25	-1	-1	-1	-1	-1	-1
DOF	26	-1	-1	-1	-1	-1	-1
DOF	27	-1	-1	-1	-1	-1	-1
DOF	28	-1	-1	-1	-1	-1	-1
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DOF	30	-1	-1	-1	-1	-1	-1
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DOF	1051	0	0	58	0	0	0
DOF	1052	0	0	58	0	0	0
DOF	1053	0	0	58	0	0	0
DOF	1054	0	0	58	0	0	0
DOF	1055	0	0	58	0	0	0
DOF	1056	0	0	58	0	0	0
DOF	1057	0	0	59	0	0	0
DOF	1058	0	0	59	0	0	0
DOF	1059	0	0	59	0	0	0
DOF	1060	0	0	59	0	0	0
DOF	1061	0	0	59	0	0	0
DOF	1062	0	0	59	0	0	0
DOF	1063	0	0	59	0	0	0
DOF	1064	0	0	59	0	0	0
DOF	1065	0	0	59	0	0	0
DOF	1066	0	0	59	0	0	0
DOF	1067	0	0	76	0	0	0
DOF	1068	0	0	76	0	0	0
DOF	1069	0	0	86	0	0	0
DOF	1070	0	0	86	0	0	0
DOF	1071	0	0	86	0	0	0
DOF	1072	0	0	86	0	0	0
DOF	1073	0	0	103	0	0	0
DOF	1074	0	0	103	0	0	0
DOF	1075	0	0	103	0	0	0
DOF	1076	0	0	103	0	0	0
DOF	1077	0	0	103	0	0	0
DOF	1078	0	0	103	0	0	0
DOF	1079	0	0	103	0	0	0
DOF	1080	0	0	103	0	0	0
DOF	1081	0	0	103	0	0	0
DOF	1082	0	0	103	0	0	0
DOF	1083	0	0	104	0	0	0
DOF	1084	0	0	104	0	0	0
DOF	1085	0	0	104	0	0	0
DOF	1086	0	0	104	0	0	0
DOF	1087	0	0	104	0	0	0
DOF	1088	0	0	104	0	0	0
DOF	1089	0	0	104	0	0	0
DOF	1090	0	0	104	0	0	0
DOF	1091	0	0	104	0	0	0
DOF	1092	0	0	104	0	0	0
DOF	1093	0	0	105	0	0	0
DOF	1094	0	0	105	0	0	0
DOF	1095	0	0	105	0	0	0
DOF	1096	0	0	105	0	0	0

DOF	1097	0	0	105	0	0	0
DOF	1098	0	0	105	0	0	0
DOF	1099	0	0	105	0	0	0
DOF	1100	0	0	105	0	0	0
DOF	1101	0	0	106	0	0	0
DOF	1102	0	0	106	0	0	0
DOF	1103	0	0	106	0	0	0
DOF	1104	0	0	106	0	0	0
DOF	1105	0	0	106	0	0	0
DOF	1106	0	0	106	0	0	0
DOF	1107	0	0	106	0	0	0
DOF	1108	0	0	106	0	0	0
DOF	1109	0	0	106	0	0	0
DOF	1110	0	0	106	0	0	0
DOF	1111	0	0	107	0	0	0
DOF	1112	0	0	107	0	0	0
DOF	1113	0	0	107	0	0	0
DOF	1114	0	0	107	0	0	0
DOF	1115	0	0	107	0	0	0
DOF	1116	0	0	107	0	0	0
DOF	1117	0	0	107	0	0	0
DOF	1118	0	0	107	0	0	0
DOF	1119	0	0	108	0	0	0
DOF	1120	0	0	108	0	0	0
DOF	1121	0	0	108	0	0	0
DOF	1122	0	0	108	0	0	0
DOF	1123	0	0	108	0	0	0
DOF	1124	0	0	108	0	0	0
DOF	1125	0	0	108	0	0	0
DOF	1126	0	0	108	0	0	0
DOF	1127	0	0	108	0	0	0
DOF	1128	0	0	108	0	0	0
DOF	1129	0	0	109	0	0	0
DOF	1130	0	0	109	0	0	0
DOF	1131	0	0	109	0	0	0
DOF	1132	0	0	109	0	0	0
DOF	1133	0	0	109	0	0	0
DOF	1134	0	0	109	0	0	0
DOF	1135	0	0	109	0	0	0
DOF	1136	0	0	109	0	0	0
DOF	1137	0	0	110	0	0	0
DOF	1138	0	0	110	0	0	0
DOF	1139	0	0	110	0	0	0
DOF	1140	0	0	110	0	0	0
DOF	1141	0	0	110	0	0	0
DOF	1142	0	0	110	0	0	0
DOF	1143	0	0	110	0	0	0
DOF	1144	0	0	110	0	0	0
DOF	1145	0	0	110	0	0	0
DOF	1146	0	0	110	0	0	0
DOF	1147	0	0	127	0	0	0
DOF	1148	0	0	127	0	0	0
DOF	1149	0	0	127	0	0	0

DOF	1150	0	0	127	0	0	0
DOF	1151	0	0	137	0	0	0
DOF	1152	0	0	137	0	0	0
DOF	1153	0	0	137	0	0	0
DOF	1154	0	0	137	0	0	0
DOF	1155	0	0	154	0	0	0
DOF	1156	0	0	154	0	0	0
DOF	1157	0	0	154	0	0	0
DOF	1158	0	0	154	0	0	0
DOF	1159	0	0	154	0	0	0
DOF	1160	0	0	154	0	0	0
DOF	1161	0	0	154	0	0	0
DOF	1162	0	0	154	0	0	0
DOF	1163	0	0	154	0	0	0
DOF	1164	0	0	154	0	0	0
DOF	1165	0	0	165	0	0	0
DOF	1166	0	0	165	0	0	0
DOF	1167	0	0	165	0	0	0
DOF	1168	0	0	165	0	0	0
DOF	1169	0	0	165	0	0	0
DOF	1170	0	0	165	0	0	0
DOF	1171	0	0	166	0	0	0
DOF	1172	0	0	166	0	0	0
DOF	1173	0	0	167	0	0	0
DOF	1174	0	0	167	0	0	0
DOF	1175	0	0	168	0	0	0
DOF	1176	0	0	168	0	0	0
DOF	1177	0	0	169	0	0	0
DOF	1178	0	0	169	0	0	0
DOF	1179	0	0	170	0	0	0
DOF	1180	0	0	170	0	0	0
DOF	1181	0	0	161	0	0	0
DOF	1182	0	0	161	0	0	0
DOF	1183	0	0	161	0	0	0
DOF	1184	0	0	161	0	0	0
DOF	1185	0	0	161	0	0	0
DOF	1186	0	0	161	0	0	0
DOF	1187	0	0	172	0	0	0
DOF	1188	0	0	172	0	0	0
DOF	1189	0	0	182	0	0	0
DOF	1190	0	0	182	0	0	0
DOF	1191	0	0	182	0	0	0
DOF	1192	0	0	182	0	0	0
DOF	1193	0	0	196	0	0	0
DOF	1194	0	0	196	0	0	0
DOF	1195	0	0	196	0	0	0
DOF	1196	0	0	196	0	0	0
DOF	1197	0	0	196	0	0	0
DOF	1198	0	0	196	0	0	0
DOF	1199	0	0	196	0	0	0
DOF	1200	0	0	196	0	0	0
DOF	1201	0	0	196	0	0	0
DOF	1202	0	0	196	0	0	0

DOF	1203	0	0	197	0	0	0
DOF	1204	0	0	197	0	0	0
DOF	1205	0	0	197	0	0	0
DOF	1206	0	0	197	0	0	0
DOF	1207	0	0	197	0	0	0
DOF	1208	0	0	197	0	0	0
DOF	1209	0	0	197	0	0	0
DOF	1210	0	0	197	0	0	0
DOF	1211	0	0	198	0	0	0
DOF	1212	0	0	198	0	0	0
DOF	1213	0	0	198	0	0	0
DOF	1214	0	0	198	0	0	0
DOF	1215	0	0	199	0	0	0
DOF	1216	0	0	199	0	0	0
DOF	1217	0	0	199	0	0	0
DOF	1218	0	0	199	0	0	0
DOF	1219	0	0	200	0	0	0
DOF	1220	0	0	200	0	0	0
DOF	1221	0	0	200	0	0	0
DOF	1222	0	0	200	0	0	0
DOF	1223	0	0	201	0	0	0
DOF	1224	0	0	201	0	0	0
DOF	1225	0	0	201	0	0	0
DOF	1226	0	0	201	0	0	0
DOF	1227	0	0	202	0	0	0
DOF	1228	0	0	202	0	0	0
DOF	1229	0	0	202	0	0	0
DOF	1230	0	0	202	0	0	0
DOF	1231	0	0	203	0	0	0
DOF	1232	0	0	203	0	0	0
DOF	1233	0	0	203	0	0	0
DOF	1234	0	0	203	0	0	0
DOF	1235	0	0	203	0	0	0
DOF	1236	0	0	203	0	0	0
DOF	1237	0	0	214	0	0	0
DOF	1238	0	0	214	0	0	0
DOF	1239	0	0	224	0	0	0
DOF	1240	0	0	224	0	0	0
DOF	1241	0	0	224	0	0	0
DOF	1242	0	0	224	0	0	0
DOF	1243	0	0	238	0	0	0
DOF	1244	0	0	238	0	0	0
DOF	1245	0	0	238	0	0	0
DOF	1246	0	0	238	0	0	0
DOF	1247	0	0	238	0	0	0
DOF	1248	0	0	238	0	0	0
DOF	1249	0	0	238	0	0	0
DOF	1250	0	0	238	0	0	0
DOF	1251	0	0	238	0	0	0
DOF	1252	0	0	238	0	0	0
DOF	1253	0	0	239	0	0	0
DOF	1254	0	0	239	0	0	0
DOF	1255	0	0	239	0	0	0

DOF	1256	0	0	239	0	0	0
DOF	1257	0	0	239	0	0	0
DOF	1258	0	0	239	0	0	0
DOF	1259	0	0	239	0	0	0
DOF	1260	0	0	239	0	0	0
DOF	1261	0	0	240	0	0	0
DOF	1262	0	0	240	0	0	0
DOF	1263	0	0	240	0	0	0
DOF	1264	0	0	240	0	0	0
DOF	1265	0	0	240	0	0	0
DOF	1266	0	0	240	0	0	0
DOF	1267	0	0	241	0	0	0
DOF	1268	0	0	241	0	0	0
DOF	1269	0	0	241	0	0	0
DOF	1270	0	0	241	0	0	0
DOF	1271	0	0	241	0	0	0
DOF	1272	0	0	241	0	0	0
DOF	1273	0	0	242	0	0	0
DOF	1274	0	0	242	0	0	0
DOF	1275	0	0	242	0	0	0
DOF	1276	0	0	242	0	0	0
DOF	1277	0	0	242	0	0	0
DOF	1278	0	0	242	0	0	0
DOF	1279	0	0	243	0	0	0
DOF	1280	0	0	243	0	0	0
DOF	1281	0	0	243	0	0	0
DOF	1282	0	0	243	0	0	0
DOF	1283	0	0	243	0	0	0
DOF	1284	0	0	243	0	0	0
DOF	1285	0	0	244	0	0	0
DOF	1286	0	0	244	0	0	0
DOF	1287	0	0	244	0	0	0
DOF	1288	0	0	244	0	0	0
DOF	1289	0	0	244	0	0	0
DOF	1290	0	0	244	0	0	0
DOF	1291	0	0	245	0	0	0
DOF	1292	0	0	245	0	0	0
DOF	1293	0	0	245	0	0	0
DOF	1294	0	0	245	0	0	0
DOF	1295	0	0	245	0	0	0
DOF	1296	0	0	245	0	0	0
DOF	1297	0	0	245	0	0	0
DOF	1298	0	0	245	0	0	0
DOF	1299	0	0	256	0	0	0
DOF	1300	0	0	256	0	0	0
DOF	1301	0	0	256	0	0	0
DOF	1302	0	0	256	0	0	0
DOF	1303	0	0	266	0	0	0
DOF	1304	0	0	266	0	0	0
DOF	1305	0	0	266	0	0	0
DOF	1306	0	0	266	0	0	0
DOF	1307	0	0	280	0	0	0
DOF	1308	0	0	280	0	0	0

DOF	1309	0	0	280	0	0	0
DOF	1310	0	0	280	0	0	0
DOF	1311	0	0	280	0	0	0
DOF	1312	0	0	280	0	0	0
DOF	1313	0	0	280	0	0	0
DOF	1314	0	0	280	0	0	0
DOF	1315	0	0	280	0	0	0
DOF	1316	0	0	280	0	0	0
DOF	1317	0	0	281	0	0	0
DOF	1318	0	0	281	0	0	0
DOF	1319	0	0	281	0	0	0
DOF	1320	0	0	281	0	0	0
DOF	1321	0	0	281	0	0	0
DOF	1322	0	0	281	0	0	0
DOF	1323	0	0	281	0	0	0
DOF	1324	0	0	281	0	0	0
DOF	1325	0	0	282	0	0	0
DOF	1326	0	0	282	0	0	0
DOF	1327	0	0	282	0	0	0
DOF	1328	0	0	282	0	0	0
DOF	1329	0	0	282	0	0	0
DOF	1330	0	0	282	0	0	0
DOF	1331	0	0	283	0	0	0
DOF	1332	0	0	283	0	0	0
DOF	1333	0	0	283	0	0	0
DOF	1334	0	0	283	0	0	0
DOF	1335	0	0	283	0	0	0
DOF	1336	0	0	283	0	0	0
DOF	1337	0	0	284	0	0	0
DOF	1338	0	0	284	0	0	0
DOF	1339	0	0	284	0	0	0
DOF	1340	0	0	284	0	0	0
DOF	1341	0	0	284	0	0	0
DOF	1342	0	0	284	0	0	0
DOF	1343	0	0	285	0	0	0
DOF	1344	0	0	285	0	0	0
DOF	1345	0	0	285	0	0	0
DOF	1346	0	0	285	0	0	0
DOF	1347	0	0	285	0	0	0
DOF	1348	0	0	285	0	0	0
DOF	1349	0	0	286	0	0	0
DOF	1350	0	0	286	0	0	0
DOF	1351	0	0	286	0	0	0
DOF	1352	0	0	286	0	0	0
DOF	1353	0	0	286	0	0	0
DOF	1354	0	0	286	0	0	0
DOF	1355	0	0	287	0	0	0
DOF	1356	0	0	287	0	0	0
DOF	1357	0	0	287	0	0	0
DOF	1358	0	0	287	0	0	0
DOF	1359	0	0	287	0	0	0
DOF	1360	0	0	287	0	0	0
DOF	1361	0	0	287	0	0	0

DOF	1362	0	0	287	0	0	0
DOF	1363	0	0	298	0	0	0
DOF	1364	0	0	298	0	0	0
DOF	1365	0	0	298	0	0	0
DOF	1366	0	0	298	0	0	0
DOF	1367	0	0	308	0	0	0
DOF	1368	0	0	308	0	0	0
DOF	1369	0	0	308	0	0	0
DOF	1370	0	0	308	0	0	0
DOF	1371	0	0	322	0	0	0
DOF	1372	0	0	322	0	0	0
DOF	1373	0	0	322	0	0	0
DOF	1374	0	0	322	0	0	0
DOF	1375	0	0	322	0	0	0
DOF	1376	0	0	322	0	0	0
DOF	1377	0	0	322	0	0	0
DOF	1378	0	0	322	0	0	0
DOF	1379	0	0	322	0	0	0
DOF	1380	0	0	322	0	0	0
DOF	1381	0	0	323	0	0	0
DOF	1382	0	0	323	0	0	0
DOF	1383	0	0	323	0	0	0
DOF	1384	0	0	323	0	0	0
DOF	1385	0	0	323	0	0	0
DOF	1386	0	0	323	0	0	0
DOF	1387	0	0	323	0	0	0
DOF	1388	0	0	323	0	0	0
DOF	1389	0	0	324	0	0	0
DOF	1390	0	0	324	0	0	0
DOF	1391	0	0	324	0	0	0
DOF	1392	0	0	324	0	0	0
DOF	1393	0	0	324	0	0	0
DOF	1394	0	0	324	0	0	0
DOF	1395	0	0	325	0	0	0
DOF	1396	0	0	325	0	0	0
DOF	1397	0	0	325	0	0	0
DOF	1398	0	0	325	0	0	0
DOF	1399	0	0	325	0	0	0
DOF	1400	0	0	325	0	0	0
DOF	1401	0	0	326	0	0	0
DOF	1402	0	0	326	0	0	0
DOF	1403	0	0	326	0	0	0
DOF	1404	0	0	326	0	0	0
DOF	1405	0	0	326	0	0	0
DOF	1406	0	0	326	0	0	0
DOF	1407	0	0	327	0	0	0
DOF	1408	0	0	327	0	0	0
DOF	1409	0	0	327	0	0	0
DOF	1410	0	0	327	0	0	0
DOF	1411	0	0	327	0	0	0
DOF	1412	0	0	327	0	0	0
DOF	1413	0	0	328	0	0	0
DOF	1414	0	0	328	0	0	0

DOF	1415	0	0	328	0	0	0
DOF	1416	0	0	328	0	0	0
DOF	1417	0	0	328	0	0	0
DOF	1418	0	0	328	0	0	0
DOF	1419	0	0	329	0	0	0
DOF	1420	0	0	329	0	0	0
DOF	1421	0	0	329	0	0	0
DOF	1422	0	0	329	0	0	0
DOF	1423	0	0	329	0	0	0
DOF	1424	0	0	329	0	0	0
DOF	1425	0	0	329	0	0	0
DOF	1426	0	0	329	0	0	0
DOF	1427	0	0	340	0	0	0
DOF	1428	0	0	340	0	0	0
DOF	1429	0	0	340	0	0	0
DOF	1430	0	0	340	0	0	0
DOF	1431	0	0	350	0	0	0
DOF	1432	0	0	350	0	0	0
DOF	1433	0	0	350	0	0	0
DOF	1434	0	0	350	0	0	0

----Section Definition Command----

//Section	BCSection	Tag?	MatTag?	Yie	Surf?	Area?	Iz?
J?	Sz?	Sy?	Avy?	Avz?			Iy?
//Column**							
Section	BCSection	c1	c1	y	0.693	0.0833	
0.0833	0.1408	0.1667	0.1667	0.8333	0.8333		
Section	BCSection	c2	c2	y	0.662	0.0833	
0.0833	0.1408	0.1667	0.1667	0.8333	0.8333		
Section	BCSection	c3	c3	y	0.626	0.0833	
0.0833	0.1408	0.1667	0.1667	0.8333	0.8333		
Section	BCSection	b1	b1	y	5.60	0.0500	
0.0180	0.0451	0.1000	0.0600	0.5000	0.5000		
Section	BCSection	b2	b2	y	5.60	0.0500	
0.0180	0.0451	0.1000	0.0600	0.5000	0.5000		
Section	BCSection	b3	b3	y	5.60	0.0500	
0.0180	0.0451	0.1000	0.0600	0.5000	0.5000		
Section	BCSection	b4	b4	y	5.65	0.0542	
0.0229	0.0546	0.1083	0.0704	0.5417	0.5417		

----Interaction

Surface
Definition

Command----

//Interaction	Surface	steel	Tag	pMA?	pPA?	pMB?	pPB?	pME?
---------------	---------	-------	-----	------	------	------	------	------

pPE?	pMF?	pPF?	$\alpha 1?$	$\alpha 2?$					
Interaction	Surface	steel	y	0.85	0.35	-0.85	0.35	0.85	
0.35	-0.85	0.35	2	2					

----Material

Definition Command

```

----
//Material Bilinear Tag? Ei? SHR? fyt? fyc? Nu?
Material bilinear c1 4.47E+7 0.003 88956 -88956 0.3
Material bilinear c2 5.02E+7 0.003 100074 -100074 0.3
Material bilinear c3 6.04E+7 0.004 120966 -120966 0.3
Material bilinear b1 2.97E+7 0.002 68190 -68190 0.3
Material bilinear b2 3.22E+7 0.003 73230 -73230 0.3
Material bilinear b3 3.73E+7 0.004 83590 -83590 0.3
Material bilinear b4 3.77E+7 0.004 84378 -84378 0.3

```

----Material

Definition Command

```

----
//Material Bilinear Tag? Ei? SHR? fyt? fyc? Nu?
Material bilinear s 20E+7 0.03 343350 -343350 0.3

```

----Element Load Definition Command----

```

//ElementLoad FEF Tag? Dir? PXi? PYi?
PZi? MXi? MYi? MZi? PXj? PYj? PZj? MXj? MYj? MZj?
//LL
ElementLoad FEF al1 0 0 0 0 0 0 0 0 0 0 0 0
0 0 55.6 0 0 0 0 0 0 0 0 0
ElementLoad FEF al2 0 0 0 0 0 0 0 0 0 0 0
0 0 32.7 0 0 0 0 0 0 0 0 0
ElementLoad FEF al3 0 0 0 0 0 0 0 0 0 0 0
0 0 78.5 0 0 0 0 0 0 0 0 0
ElementLoad FEF al4 0 0 0 0 0 0 0 0 0 0 0
0 0 39.2 0 0 0 0 0 0 0 0 0
ElementLoad FEF al5 0 0 0 0 0 0 0 0 0 0 0
0 0 55.7 0 0 0 0 0 0 0 0 0
ElementLoad FEF al6 0 0 0 0 0 0 0 0 0 0 0
0 0 78.5 0 0 0 0 0 0 0 0 0
ElementLoad FEF al7 0 0 0 0 0 0 0 0 0 0 0
0 0 68.7 0 0 0 0 0 0 0 0 0
ElementLoad FEF al8 0 0 0 0 0 0 0 0 0 0 0
0 0 29.4 0 0 0 0 0 0 0 0 0
0 0 29.4 0 0 0 0 0 0 0 0 0

```

ElementLoad	FEF	al9	0	0	23.1	0
0	0	23.1	0	0	0	0
ElementLoad	FEF	al10	0	0	39.2	0
0	0	39.2	0	0	0	0
ElementLoad	FEF	bl1	0	0	55.7	0
0	0	55.7	0	0	0	0
ElementLoad	FEF	bl2	0	0	78.5	0
0	0	78.5	0	0	0	0
ElementLoad	FEF	bl3	0	0	55.7	0
0	0	55.7	0	0	0	0
ElementLoad	FEF	bl4	0	0	78.4	0
0	0	78.4	0	0	0	0
ElementLoad	FEF	bl5	0	0	29.4	0
0	0	29.4	0	0	0	0
ElementLoad	FEF	bl6	0	0	55.7	0
0	0	55.7	0	0	0	0
ElementLoad	FEF	bl7	0	0	78.5	0
0	0	78.5	0	0	0	0
ElementLoad	FEF	bl8	0	0	29.4	0
0	0	29.4	0	0	0	0
ElementLoad	FEF	bl9	0	0	32.7	0
0	0	32.7	0	0	0	0
ElementLoad	FEF	bl10	0	0	29.4	0
0	0	29.4	0	0	0	0
ElementLoad	FEF	cl1	0	0	65.4	0
0	0	65.4	0	0	0	0
ElementLoad	FEF	cl2	0	0	39.2	0
0	0	39.2	0	0	0	0
ElementLoad	FEF	cl3	0	0	206.1	0
0	0	206.1	0	0	0	0
ElementLoad	FEF	cl4	0	0	130.8	0
0	0	130.8	0	0	0	0
ElementLoad	FEF	cl5	0	0	78.4	0
0	0	78.4	0	0	0	0
ElementLoad	FEF	cl6	0	0	29.4	0
0	0	29.4	0	0	0	0

0 0 29.4 0 0 0 0

//DL

ElementLoad	FEF	ad1	0	0		418.3
0						0 0
0	0	418.3	0	0	0	0
ElementLoad	FEF	ad2	0	0		245.8
0						0 0
0	0	245.8	0	0	0	0
ElementLoad	FEF	ad3	0	0		590.2
0						0 0
0	0	590.2	0	0	0	0
ElementLoad	FEF	ad4	0	0		295.1
0						0 0
0	0	295.1	0	0	0	0
ElementLoad	FEF	ad5	0	0		314.4
0						0 0
0	0	314.4	0	0	0	0
ElementLoad	FEF	ad6	0	0		442.6
0						0 0
0	0	442.6	0	0	0	0
ElementLoad	FEF	ad7	0	0		387.3
0						0 0
0	0	387.3	0	0	0	0
ElementLoad	FEF	ad8	0	0		165.9
0						0 0
0	0	165.9	0	0	0	0
ElementLoad	FEF	ad9	0	0		309.4
0						0 0
0	0	309.4	0	0	0	0
ElementLoad	FEF	ad10	0	0		526.6
0						0 0
0	0	526.6	0	0	0	0
ElementLoad	FEF	bd1	0	0		267.6
0						0 0
0	0	267.6	0	0	0	0
ElementLoad	FEF	bd2	0	0		376.7
0						0 0
0	0	376.7	0	0	0	0
ElementLoad	FEF	bd3	0	0		182.8
0						0 0
0	0	182.8	0	0	0	0
ElementLoad	FEF	bd4	0	0		260.5
0						0 0
0	0	260.5	0	0	0	0
ElementLoad	FEF	bd5	0	0		96.5
0						0 0
0	0	96.5	0	0	0	0
ElementLoad	FEF	bd6	0	0		201.8
0						0 0

0	0	201.8	0	0	0	0	
ElementLoad	FEF	bd7	0	0			284.1
0							0 0
0	0	284.1	0	0	0	0	
ElementLoad	FEF	bd8	0	0			97.7
0							0 0
0	0	97.7	0	0	0	0	
ElementLoad	FEF	bd9	0	0			108.1
0							0 0
0	0	108.1	0	0	0	0	
ElementLoad	FEF	bd10	0	0			97.7
0							0 0
0	0	97.7	0	0	0	0	
ElementLoad	FEF	cd1	0	0			491.6
0							0 0
0	0	491.6	0	0	0	0	
ElementLoad	FEF	cd2	0	0			368.7
0							0 0
0	0	368.7	0	0	0	0	
ElementLoad	FEF	cd3	0	0			329.1
0							0 0
0	0	329.1	0	0	0	0	
ElementLoad	FEF	cd4	0	0			313.9
0							0 0
0	0	313.9	0	0	0	0	
ElementLoad	FEF	cd5	0	0			214.5
0							0 0
0	0	214.5	0	0	0	0	
ElementLoad	FEF	cd6	0	0			236.7
0							0 0
0	0	236.7	0	0	0	0	
ElementLoad	FEF	cd7	0	0			295.1
0							0 0
0	0	295.1	0	0	0	0	
ElementLoad	FEF	cd8	0	0			221.3
0							0 0
0	0	221.3	0	0	0	0	
ElementLoad	FEF	cd9	0	0			526.6
0							0 0
0	0	526.6	0	0	0	0	
ElementLoad	FEF	cd10	0	0			188.4
0							0 0
0	0	188.4	0	0	0	0	
ElementLoad	FEF	cd11	0	0			128.7
0							0 0
0	0	128.7	0	0	0	0	
ElementLoad	FEF	cd12	0	0			141.9
0							0 0
0	0	141.9	0	0	0	0	
ElementLoad	FEF	cd13	0	0			442.6
0							0 0
0	0	442.6	0	0	0	0	
ElementLoad	FEF	cd14	0	0			257.2

0								0	0
0	0	257.2	0	0	0	0			
ElementLoad	FEF	cd15	0	0				283.8	
0								0	0
0	0	283.8	0	0	0	0			
ElementLoad	FEF	cd16	0	0				331.9	
0								0	0
0	0	331.9	0	0	0	0			
ElementLoad	FEF	cd17	0	0				192.5	
0								0	0
0	0	192.5	0	0	0	0			
ElementLoad	FEF	cd18	0	0				983.5	
0								0	0
0	0	983.5	0	0	0	0			
ElementLoad	FEF	cd19	0	0				675.7	
0								0	0
0	0	675.7	0	0	0	0			
ElementLoad	FEF	cd20	0	0				746.1	
0								0	0
0	0	746.1	0	0	0	0			
ElementLoad	FEF	cd21	0	0				1161.9	
0								0	0
0	0	1161.9	0	0	0	0			
ElementLoad	FEF	cd22	0	0				655.5	
0								0	0
0	0	655.5	0	0	0	0			
ElementLoad	FEF	cd23	0	0				163.9	
0								0	0
0	0	163.9	0	0	0	0			
ElementLoad	FEF	cd24	0	0				106.4	
0								0	0
0	0	106.4	0	0	0	0			

----Element Load Case----

//ElemLoadCase	CaseTag?	LpTag1?	LpFac1?	LpTag2?	LpFac2?
ElemLoadCase	a1				al1
1	ad1	1			
ElemLoadCase	a2				al2
1	ad2	1			
ElemLoadCase	a3				al3
1	ad3	1			
ElemLoadCase	a4				al4
1	ad4	1			
ElemLoadCase	a5				al5
1	ad5	1			
ElemLoadCase	a6				al6
1	ad6	1			
ElemLoadCase	a7				al7
1	ad7	1			
ElemLoadCase	a8				al8

1	ad8	1	
ElemLoadCase	a9		al9
1	ad9	1	
ElemLoadCase	a10		al10
1	ad10	1	
ElemLoadCase	b1		bl1
1	bd1	1	
ElemLoadCase	b2		bl2
1	bd2	1	
ElemLoadCase	b3		bl3
1	bd3	1	
ElemLoadCase	b4		bl4
1	bd4	1	
ElemLoadCase	b5		bl5
1	bd5	1	
ElemLoadCase	b6		bl6
1	bd6	1	
ElemLoadCase	b7		bl7
1	bd7	1	
ElemLoadCase	b8		bl8
1	bd8	1	
ElemLoadCase	b9		bl9
1	bd9	1	
ElemLoadCase	b10		bl10
1	bd10	1	
ElemLoadCase	c1		cl1
1	cd1	1	
ElemLoadCase	c2		cl1
1	cd2	1	
ElemLoadCase	c3		cl6
1	cd3	1	
ElemLoadCase	c4		cl1
1	cd4	1	
ElemLoadCase	c5		cl1
1	cd5	1	
ElemLoadCase	c6		cl1
1	cd6	1	
ElemLoadCase	c7		cl1
1	cd5	1	
ElemLoadCase	c8		cl2
1	cd7	1	
ElemLoadCase	c9		cl2
1	cd8	1	
ElemLoadCase	c10		cl2
1	cd9	1	
ElemLoadCase	c11		cl2
1	cd10	1	
ElemLoadCase	c12		cl2
1	cd11	1	
ElemLoadCase	c13		cl2
1	cd12	1	
ElemLoadCase	c14		cl6
1	cd24	1	



ElemLoadCase	c15		c14
1	cd18	1	
ElemLoadCase	c16		c14
1	cd20	1	
ElemLoadCase	c17		c13
1	cd18	1	
ElemLoadCase	c18		c13
1	cd19	1	
ElemLoadCase	c19		c13
1	cd20	1	
ElemLoadCase	c20		c12
1	cd7	1	
ElemLoadCase	c21		c15
1	cd13	1	
ElemLoadCase	c22		c12
1	cd9	1	
ElemLoadCase	c23		c12
1	cd10	1	
ElemLoadCase	c24		c15
1	cd14	1	
ElemLoadCase	c25		c15
1	cd15	1	
ElemLoadCase	c26		c11
1	cd16	1	
ElemLoadCase	c27		c11
1	cd7	1	
ElemLoadCase	c28		c11
1	cd5	1	
ElemLoadCase	c29		c15
1	cd22	1	
ElemLoadCase	c30		c13
1	cd21	1	
ElemLoadCase	c31		c16
1	cd23	1	



----Element Definition Command----

//COLUMN

//Element	BeamColumn	Tag?	I?	J?	SecTag?	RezTag?	GeoK?
Out?	FEFCase?	Fac?	E_Gp?	F_Gp?	PhiY?		
Element	BeamColumn	1	1	52	c3	0	0
1	0	0	0				
Element	BeamColumn	2	2	53	c3	0	0
1	0	0	0				
Element	BeamColumn	3	3	54	c3	0	0
1	0	0	0				
Element	BeamColumn	4	4	55	c3	0	0
1	0	0	0				
Element	BeamColumn	5	5	56	c3	0	0
1	0	0	0				

Element	BeamColumn	6	6	57	c3	0	0
1	0	0	0				
Element	BeamColumn	7	7	58	c3	0	0
1	0	0	0				
Element	BeamColumn	8	8	59	c3	0	0
1	0	0	0				
Element	BeamColumn	9	9	60	c3	0	0
1	0	0	0				
Element	BeamColumn	10	10	61	c3	0	0
1	0	0	0				
Element	BeamColumn	11	11	62	c3	0	0
1	0	0	0				
Element	BeamColumn	12	12	63	c3	0	0
1	0	0	0				
Element	BeamColumn	13	13	64	c3	0	0
1	0	0	0				
Element	BeamColumn	14	14	65	c3	0	0
1	0	0	0				
Element	BeamColumn	15	15	66	c3	0	0
1	0	0	0				
Element	BeamColumn	16	16	67	c3	0	0
1	0	0	0				
Element	BeamColumn	17	17	68	c3	0	0
1	0	0	0				
Element	BeamColumn	18	18	69	c3	0	0
1	0	0	0				
Element	BeamColumn	19	19	70	c3	0	0
1	0	0	0				
Element	BeamColumn	20	20	71	c3	0	0
1	0	0	0				
Element	BeamColumn	21	21	72	c3	0	0
1	0	0	0				
Element	BeamColumn	22	22	73	c3	0	0
1	0	0	0				
Element	BeamColumn	23	23	74	c3	0	0
1	0	0	0				
Element	BeamColumn	24	24	75	c3	0	0
1	0	0	0				
Element	BeamColumn	25	25	76	c3	0	0
1	0	0	0				
Element	BeamColumn	26	26	77	c3	0	0
1	0	0	0				
Element	BeamColumn	27	27	78	c3	0	0
1	0	0	0				
Element	BeamColumn	28	28	79	c3	0	0
1	0	0	0				
Element	BeamColumn	29	29	80	c3	0	0
1	0	0	0				
Element	BeamColumn	30	30	81	c3	0	0
1	0	0	0				
Element	BeamColumn	31	31	82	c3	0	0
1	0	0	0				
Element	BeamColumn	32	32	83	c3	0	0

1	0	0	0					
Element	BeamColumn	33	33	84	c3	0	0	
1	0	0	0					
Element	BeamColumn	34	34	85	c3	0	0	
1	0	0	0					
Element	BeamColumn	35	35	86	c3	0	0	
1	0	0	0					
Element	BeamColumn	36	36	87	c3	0	0	
1	0	0	0					
Element	BeamColumn	37	37	88	c3	0	0	
1	0	0	0					
Element	BeamColumn	38	38	89	c3	0	0	
1	0	0	0					
Element	BeamColumn	39	39	90	c3	0	0	
1	0	0	0					
Element	BeamColumn	40	40	91	c3	0	0	
1	0	0	0					
Element	BeamColumn	41	41	92	c3	0	0	
1	0	0	0					
Element	BeamColumn	42	42	93	c3	0	0	
1	0	0	0					
Element	BeamColumn	43	43	94	c3	0	0	
1	0	0	0					
Element	BeamColumn	44	44	95	c3	0	0	
1	0	0	0					
Element	BeamColumn	45	45	96	c3	0	0	
1	0	0	0					
Element	BeamColumn	46	46	97	c3	0	0	
1	0	0	0					
Element	BeamColumn	47	47	98	c3	0	0	
1	0	0	0					
Element	BeamColumn	48	48	99	c3	0	0	
1	0	0	0					
Element	BeamColumn	49	49	100	c3	0	0	
1	0	0	0					
Element	BeamColumn	50	50	101	c3	0	0	
1	0	0	0					
Element	BeamColumn	51	51	102	c3	0	0	
1	0	0	0					
Element	BeamColumn	52	52	103	c3	0	0	
1	0	0	0					
Element	BeamColumn	53	53	104	c3	0	0	
1	0	0	0					
Element	BeamColumn	54	54	105	c3	0	0	
1	0	0	0					
Element	BeamColumn	55	55	106	c3	0	0	
1	0	0	0					
Element	BeamColumn	56	56	107	c3	0	0	
1	0	0	0					
Element	BeamColumn	57	57	108	c3	0	0	
1	0	0	0					
Element	BeamColumn	58	58	109	c3	0	0	
1	0	0	0					

Element	BeamColumn	59	59	110	c3	0	0
1	0	0	0				
Element	BeamColumn	60	60	111	c3	0	0
1	0	0	0				
Element	BeamColumn	61	61	112	c3	0	0
1	0	0	0				
Element	BeamColumn	62	62	113	c3	0	0
1	0	0	0				
Element	BeamColumn	63	63	114	c3	0	0
1	0	0	0				
Element	BeamColumn	64	64	115	c3	0	0
1	0	0	0				
Element	BeamColumn	65	65	116	c3	0	0
1	0	0	0				
Element	BeamColumn	66	66	117	c3	0	0
1	0	0	0				
Element	BeamColumn	67	67	118	c3	0	0
1	0	0	0				
Element	BeamColumn	68	68	119	c3	0	0
1	0	0	0				
Element	BeamColumn	69	69	120	c3	0	0
1	0	0	0				
Element	BeamColumn	70	70	121	c3	0	0
1	0	0	0				
Element	BeamColumn	71	71	122	c3	0	0
1	0	0	0				
Element	BeamColumn	72	72	123	c3	0	0
1	0	0	0				
Element	BeamColumn	73	73	124	c3	0	0
1	0	0	0				
Element	BeamColumn	74	74	125	c3	0	0
1	0	0	0				
Element	BeamColumn	75	75	126	c3	0	0
1	0	0	0				
Element	BeamColumn	76	76	127	c3	0	0
1	0	0	0				
Element	BeamColumn	77	77	128	c3	0	0
1	0	0	0				
Element	BeamColumn	78	78	129	c3	0	0
1	0	0	0				
Element	BeamColumn	79	79	130	c3	0	0
1	0	0	0				
Element	BeamColumn	80	80	131	c3	0	0
1	0	0	0				
Element	BeamColumn	81	81	132	c3	0	0
1	0	0	0				
Element	BeamColumn	82	82	133	c3	0	0
1	0	0	0				
Element	BeamColumn	83	83	134	c3	0	0
1	0	0	0				
Element	BeamColumn	84	84	135	c3	0	0
1	0	0	0				
Element	BeamColumn	85	85	136	c3	0	0

1	0	0	0					
Element	BeamColumn	86	86	137	c3	0	0	
1	0	0	0					
Element	BeamColumn	87	87	138	c3	0	0	
1	0	0	0					
Element	BeamColumn	88	88	139	c3	0	0	
1	0	0	0					
Element	BeamColumn	89	89	140	c3	0	0	
1	0	0	0					
Element	BeamColumn	90	90	141	c3	0	0	
1	0	0	0					
Element	BeamColumn	91	91	142	c3	0	0	
1	0	0	0					
Element	BeamColumn	92	92	143	c3	0	0	
1	0	0	0					
Element	BeamColumn	93	93	144	c3	0	0	
1	0	0	0					
Element	BeamColumn	94	94	145	c3	0	0	
1	0	0	0					
Element	BeamColumn	95	95	146	c3	0	0	
1	0	0	0					
Element	BeamColumn	96	96	147	c3	0	0	
1	0	0	0					
Element	BeamColumn	97	97	148	c3	0	0	
1	0	0	0					
Element	BeamColumn	98	98	149	c3	0	0	
1	0	0	0					
Element	BeamColumn	99	99	150	c3	0	0	
1	0	0	0					
Element	BeamColumn	100	100	151	c3	0	0	
1	0	0	0					
Element	BeamColumn	101	101	152	c3	0	0	
1	0	0	0					
Element	BeamColumn	102	102	153	c3	0	0	
1	0	0	0					
Element	BeamColumn	103	103	154	c2	0	0	
1	0	0	0					
Element	BeamColumn	104	104	155	c2	0	0	
1	0	0	0					
Element	BeamColumn	105	105	156	c2	0	0	
1	0	0	0					
Element	BeamColumn	106	106	157	c2	0	0	
1	0	0	0					
Element	BeamColumn	107	107	158	c2	0	0	
1	0	0	0					
Element	BeamColumn	108	108	159	c2	0	0	
1	0	0	0					
Element	BeamColumn	109	109	160	c2	0	0	
1	0	0	0					
Element	BeamColumn	110	110	161	c2	0	0	
1	0	0	0					
Element	BeamColumn	111	111	162	c2	0	0	
1	0	0	0					

Element	BeamColumn	112	118	163	c2	0	0
1	0	0	0				
Element	BeamColumn	113	119	164	c2	0	0
1	0	0	0				
Element	BeamColumn	114	120	165	c2	0	0
1	0	0	0				
Element	BeamColumn	115	121	166	c2	0	0
1	0	0	0				
Element	BeamColumn	116	122	167	c2	0	0
1	0	0	0				
Element	BeamColumn	117	123	168	c2	0	0
1	0	0	0				
Element	BeamColumn	118	124	169	c2	0	0
1	0	0	0				
Element	BeamColumn	119	125	170	c2	0	0
1	0	0	0				
Element	BeamColumn	120	126	171	c2	0	0
1	0	0	0				
Element	BeamColumn	121	127	172	c2	0	0
1	0	0	0				
Element	BeamColumn	122	128	173	c2	0	0
1	0	0	0				
Element	BeamColumn	123	129	174	c2	0	0
1	0	0	0				
Element	BeamColumn	124	130	175	c2	0	0
1	0	0	0				
Element	BeamColumn	125	131	176	c2	0	0
1	0	0	0				
Element	BeamColumn	126	132	177	c2	0	0
1	0	0	0				
Element	BeamColumn	127	133	178	c2	0	0
1	0	0	0				
Element	BeamColumn	128	134	179	c2	0	0
1	0	0	0				
Element	BeamColumn	129	135	180	c2	0	0
1	0	0	0				
Element	BeamColumn	130	136	181	c2	0	0
1	0	0	0				
Element	BeamColumn	131	137	182	c2	0	0
1	0	0	0				
Element	BeamColumn	132	138	183	c2	0	0
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Element	BeamColumn	162	171	213	c2	0	0	
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Element	BeamColumn	163	172	214	c2	0	0	
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Element	BeamColumn	194	203	245	c2	0	0	
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Element	BeamColumn	198	207	249	c2	0	0	
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Element	BeamColumn	215	224	266	c2	0	0	
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Element	BeamColumn	216	225	267	c2	0	0	
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Element	BeamColumn	217	226	268	c2	0	0	
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Element	BeamColumn	244	253	295	c1	0	0

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Element	BeamColumn	245	254	296	c1	0	0	
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Element	BeamColumn	256	265	307	c1	0	0	
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Element	BeamColumn	261	270	312	c1	0	0	
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Element	BeamColumn	268	277	319	c1	0	0	
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Element	BeamColumn	269	278	320	c1	0	0	
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Element	BeamColumn	310	319	361	c1	0	0	
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Element	BeamColumn	311	320	362	c1	0	0	
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Element	BeamColumn	312	321	363	c1	0	0	
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//BEAMx								
//Element BeamColumn Tag? I? J? SecTag? RezTag? GeoK?								
Out? FEFCase? Fac?	E_Gp?	F_Gp?	PhiY?					
Element BeamColumn	1001	52	364	b3	0	0		
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Element BeamColumn	1002	364	365	b3	0	0		
0 a1 1.41	0							
Element BeamColumn	1003	365	53	b3	0	0		
0 0 1.41	0							
Element BeamColumn	1004	53	366	b3	0	0		
0 0 1.41	0							
Element BeamColumn	1005	366	367	b3	0	0		
0 a1 1.41	0							
Element BeamColumn	1006	367	54	b3	0	0		
0 0 1.41	0							
Element BeamColumn	1007	58	368	b3	0	0		
0 0 1.41	0							
Element BeamColumn	1008	368	369	b3	0	0		
0 a1 1.41	0							
Element BeamColumn	1009	369	59	b3	0	0		

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Element	BeamColumn	1011	370	371	b3	0	0	
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Element	BeamColumn	1012	371	61	b3	0	0	
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Element	BeamColumn	1013	61	372	b3	0	0	
0	0	1.41	0					
Element	BeamColumn	1014	372	373	b3	0	0	
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Element	BeamColumn	1015	373	62	b3	0	0	
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Element	BeamColumn	1016	62	374	b3	0	0	
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Element	BeamColumn	1017	374	375	b3	0	0	
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Element	BeamColumn	1018	375	63	b3	0	0	
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Element	BeamColumn	1019	63	376	b3	0	0	
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Element	BeamColumn	1021	377	64	b3	0	0	
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Element	BeamColumn	1029	382	383	b3	0	0	
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Element	BeamColumn	1032	384	385	b3	0	0	
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Element	BeamColumn	1034	69	386	b3	0	0	
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Element	BeamColumn	1036	387	70	b3	0	0
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Element	BeamColumn	1038	388	389	b3	0	0
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Element	BeamColumn	1040	71	390	b3	0	0
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Element	BeamColumn	1041	390	391	b3	0	0
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Element	BeamColumn	1043	72	392	b3	0	0
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Element	BeamColumn	1045	393	73	b3	0	0
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Element	BeamColumn	1046	73	394	b3	0	0
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Element	BeamColumn	1047	394	395	b3	0	0
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Element	BeamColumn	1048	395	74	b3	0	0
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Element	BeamColumn	1050	396	397	b3	0	0
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Element	BeamColumn	1051	397	75	b3	0	0
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0	0	1.41	0				
Element	BeamColumn	1053	398	399	b3	0	0
0	a4	1.41	0				
Element	BeamColumn	1054	399	76	b3	0	0
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Element	BeamColumn	1055	77	400	b3	0	0
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Element	BeamColumn	1056	400	401	b3	0	0
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0	0	1.41	0				
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0	0	1.41	0				
Element	BeamColumn	1059	402	403	b3	0	0
0	a4	1.41	0				
Element	BeamColumn	1060	403	79	b3	0	0
0	0	1.41	0				
Element	BeamColumn	1061	79	404	b3	0	0
0	0	1.41	0				
Element	BeamColumn	1062	404	405	b3	0	0

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Element	BeamColumn	1063	405	80	b3	0	0	
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Element	BeamColumn	1064	80	406	b3	0	0	
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Element	BeamColumn	1065	406	407	b3	0	0	
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Element	BeamColumn	1066	407	81	b3	0	0	
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Element	BeamColumn	1067	81	408	b3	0	0	
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Element	BeamColumn	1068	408	409	b3	0	0	
0	a4	1.41	0					
Element	BeamColumn	1069	409	82	b3	0	0	
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Element	BeamColumn	1070	82	410	b3	0	0	
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0	a4	1.41	0					
Element	BeamColumn	1072	411	83	b3	0	0	
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Element	BeamColumn	1073	83	412	b3	0	0	
0	0	1.41	0					
Element	BeamColumn	1074	412	413	b3	0	0	
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Element	BeamColumn	1075	413	84	b3	0	0	
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Element	BeamColumn	1076	84	414	b3	0	0	
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Element	BeamColumn	1077	414	415	b3	0	0	
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0	0	1.41	0					
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0	0	1.41	0					

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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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Element	BeamColumn	1109	101	436	b3	0	0
0	0	1.41	0				
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Element	BeamColumn	1144	459	115	b2	0	0
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0	0	1.41	0				
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0	0	1.41	0				
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0	a5	1.41	0				
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0	a6	1.41	0					

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0	a6	1.41	0				
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0	a7	1.41	0				
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0	a7	1.41	0				
Element	BeamColumn	1219	509	143	b2	0	0
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0	a8	1.41	0					
Element	BeamColumn	1231	517	148	b2	0	0	
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0	0	1.41	0				
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Element	BeamColumn	1282	551	169	b2	0	0	
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Element	BeamColumn	1285	553	170	b2	0	0	
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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Element	BeamColumn	1559	282	736	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1560	736	737	b1	0	0	
0	b6	1.41	0					
Element	BeamColumn	1561	737	283	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1562	283	738	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1563	738	739	b1	0	0	
0	b6	1.41	0					
Element	BeamColumn	1564	739	284	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1565	284	740	b1	0	0	
0	0	1.41	0					

Element	BeamColumn	1566	740	741	b1	0	0
0	b6	1.41	0				
Element	BeamColumn	1567	741	285	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1568	285	742	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1569	742	743	b1	0	0
0	b6	1.41	0				
Element	BeamColumn	1570	743	286	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1571	286	744	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1572	744	745	b1	0	0
0	b6	1.41	0				
Element	BeamColumn	1573	745	287	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1574	290	746	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1575	746	747	b1	0	0
0	b7	1.41	0				
Element	BeamColumn	1576	747	291	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1577	291	748	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1578	748	749	b1	0	0
0	b7	1.41	0				
Element	BeamColumn	1579	749	292	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1580	292	750	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1581	750	751	b1	0	0
0	b7	1.41	0				
Element	BeamColumn	1582	751	293	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1583	293	752	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1584	752	753	b1	0	0
0	b7	1.41	0				
Element	BeamColumn	1585	753	294	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1586	294	754	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1587	754	755	b1	0	0
0	b7	1.41	0				
Element	BeamColumn	1588	755	295	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1589	295	756	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1590	756	757	b1	0	0
0	b7	1.41	0				
Element	BeamColumn	1591	757	296	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1592	296	758	b1	0	0

0	0	1.41	0					
Element	BeamColumn	1593	758	759	b1	0	0	
0	b7	1.41	0					
Element	BeamColumn	1594	759	297	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1595	297	760	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1596	760	761	b1	0	0	
0	b7	1.41	0					
Element	BeamColumn	1597	761	298	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1598	299	762	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1599	762	763	b1	0	0	
0	b7	1.41	0					
Element	BeamColumn	1600	763	300	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1601	300	764	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1602	764	765	b1	0	0	
0	b7	1.41	0					
Element	BeamColumn	1603	765	301	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1604	301	766	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1605	766	767	b1	0	0	
0	b7	1.41	0					
Element	BeamColumn	1606	767	302	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1607	302	768	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1608	768	769	b1	0	0	
0	b7	1.41	0					
Element	BeamColumn	1609	769	303	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1610	303	770	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1611	770	771	b1	0	0	
0	b7	1.41	0					
Element	BeamColumn	1612	771	304	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1613	304	772	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1614	772	773	b1	0	0	
0	b7	1.41	0					
Element	BeamColumn	1615	773	305	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1616	305	774	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1617	774	775	b1	0	0	
0	b7	1.41	0					
Element	BeamColumn	1618	775	306	b1	0	0	
0	0	1.41	0					

Element	BeamColumn	1619	306	776	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1620	776	777	b1	0	0
0	b7	1.41	0				
Element	BeamColumn	1621	777	307	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1622	307	778	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1623	778	779	b1	0	0
0	b7	1.41	0				
Element	BeamColumn	1624	779	308	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1625	309	780	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1626	780	781	b1	0	0
0	b7	1.41	0				
Element	BeamColumn	1627	781	310	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1628	312	782	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1629	782	783	b1	0	0
0	b8	1.41	0				
Element	BeamColumn	1630	783	313	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1631	313	784	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1632	784	785	b1	0	0
0	b8	1.41	0				
Element	BeamColumn	1633	785	314	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1634	314	786	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1635	786	787	b1	0	0
0	b8	1.41	0				
Element	BeamColumn	1636	787	315	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1637	315	788	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1638	788	789	b1	0	0
0	b8	1.41	0				
Element	BeamColumn	1639	789	316	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1640	316	790	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1641	790	791	b1	0	0
0	b8	1.41	0				
Element	BeamColumn	1642	791	317	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1643	317	792	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1644	792	793	b1	0	0
0	b8	1.41	0				
Element	BeamColumn	1645	793	318	b1	0	0

0	0	1.41	0					
Element	BeamColumn	1646	318	794	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1647	794	795	b1	0	0	
0	b8	1.41	0					
Element	BeamColumn	1648	795	319	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1649	319	796	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1650	796	797	b1	0	0	
0	b8	1.41	0					
Element	BeamColumn	1651	797	320	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1652	320	798	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1653	798	799	b1	0	0	
0	b8	1.41	0					
Element	BeamColumn	1654	799	321	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1655	322	800	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1656	800	801	b1	0	0	
0	b9	1.41	0					
Element	BeamColumn	1657	801	323	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1658	323	802	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1659	802	803	b1	0	0	
0	b9	1.41	0					
Element	BeamColumn	1660	803	324	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1661	324	804	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1662	804	805	b1	0	0	
0	b9	1.41	0					
Element	BeamColumn	1663	805	325	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1664	325	806	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1665	806	807	b1	0	0	
0	b9	1.41	0					
Element	BeamColumn	1666	807	326	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1667	326	808	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1668	808	809	b1	0	0	
0	b9	1.41	0					
Element	BeamColumn	1669	809	327	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1670	327	810	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1671	810	811	b1	0	0	
0	b9	1.41	0					

Element	BeamColumn	1672	811	328	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1673	328	812	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1674	812	813	b1	0	0
0	b9	1.41	0				
Element	BeamColumn	1675	813	329	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1676	332	814	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1677	814	815	b1	0	0
0	b4	1.41	0				
Element	BeamColumn	1678	815	333	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1679	333	816	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1680	816	817	b1	0	0
0	b4	1.41	0				
Element	BeamColumn	1681	817	334	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1682	334	818	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1683	818	819	b1	0	0
0	b4	1.41	0				
Element	BeamColumn	1684	819	335	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1685	335	820	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1686	820	821	b1	0	0
0	b4	1.41	0				
Element	BeamColumn	1687	821	336	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1688	336	822	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1689	822	823	b1	0	0
0	b4	1.41	0				
Element	BeamColumn	1690	823	337	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1691	337	824	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1692	824	825	b1	0	0
0	b4	1.41	0				
Element	BeamColumn	1693	825	338	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1694	338	826	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1695	826	827	b1	0	0
0	b4	1.41	0				
Element	BeamColumn	1696	827	339	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1697	339	828	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1698	828	829	b1	0	0

0	b4	1.41	0					
Element	BeamColumn	1699	829	340	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1700	341	830	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1701	830	831	b1	0	0	
0	b4	1.41	0					
Element	BeamColumn	1702	831	342	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1703	342	832	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1704	832	833	b1	0	0	
0	b4	1.41	0					
Element	BeamColumn	1705	833	343	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1706	343	834	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1707	834	835	b1	0	0	
0	b4	1.41	0					
Element	BeamColumn	1708	835	344	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1709	344	836	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1710	836	837	b1	0	0	
0	b4	1.41	0					
Element	BeamColumn	1711	837	345	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1712	345	838	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1713	838	839	b1	0	0	
0	b4	1.41	0					
Element	BeamColumn	1714	839	346	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1715	346	840	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1716	840	841	b1	0	0	
0	b4	1.41	0					
Element	BeamColumn	1717	841	347	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1718	347	842	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1719	842	843	b1	0	0	
0	b4	1.41	0					
Element	BeamColumn	1720	843	348	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1721	348	844	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1722	844	845	b1	0	0	
0	b4	1.41	0					
Element	BeamColumn	1723	845	349	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1724	349	846	b1	0	0	
0	0	1.41	0					

Element	BeamColumn	1725	846	847	b1	0	0
0	b4	1.41	0				
Element	BeamColumn	1726	847	350	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1727	351	848	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1728	848	849	b1	0	0
0	b4	1.41	0				
Element	BeamColumn	1729	849	352	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1730	354	850	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1731	850	851	b1	0	0
0	b10	1.41	0				
Element	BeamColumn	1732	851	355	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1733	355	852	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1734	852	853	b1	0	0
0	b10	1.41	0				
Element	BeamColumn	1735	853	356	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1736	356	854	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1737	854	855	b1	0	0
0	b10	1.41	0				
Element	BeamColumn	1738	855	357	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1739	357	856	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1740	856	857	b1	0	0
0	b10	1.41	0				
Element	BeamColumn	1741	857	358	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1742	358	858	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1743	858	859	b1	0	0
0	b10	1.41	0				
Element	BeamColumn	1744	859	359	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1745	359	860	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1746	860	861	b1	0	0
0	b10	1.41	0				
Element	BeamColumn	1747	861	360	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1748	360	862	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1749	862	863	b1	0	0
0	b10	1.41	0				
Element	BeamColumn	1750	863	361	b1	0	0
0	0	1.41	0				
Element	BeamColumn	1751	361	864	b1	0	0

0	0	1.41	0					
Element	BeamColumn	1752	864	865	b1	0	0	
0	b10	1.41	0					
Element	BeamColumn	1753	865	362	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1754	362	866	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	1755	866	867	b1	0	0	
0	b10	1.41	0					
Element	BeamColumn	1756	867	363	b1	0	0	
0	0	1.41	0					

//BEAMy

//Element	BeamColumn	Tag?	I?	J?	SecTag?	RezTag?	GeoK?
Out?	FEFCase?	Fac?	E_Gp?				
Element	BeamColumn	2001	52	1001	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2002	1001	1002	b3	0	0
0	c1	1.41	0				
Element	BeamColumn	2003	1002	60	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2004	60	1003	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2005	1003	1004	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2006	1004	68	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2007	68	1005	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2008	1005	1006	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2009	1006	77	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2010	77	1007	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2011	1007	1008	b3	0	0
0	c8	1.41	0				
Element	BeamColumn	2012	1008	87	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2013	87	1009	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2014	1009	1010	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2015	1010	93	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2016	53	1011	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2017	1011	1012	b3	0	0
0	c15	1.41	0				

Element	BeamColumn	2018	1012	61	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2019	61	1013	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2020	1013	1014	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2021	1014	69	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2022	69	1015	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2023	1015	1016	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2024	1016	78	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2025	78	1017	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2026	1017	1018	b3	0	0
0	c20	1.41	0				
Element	BeamColumn	2027	1018	88	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2028	88	1019	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2029	1019	1020	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2030	1020	94	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2031	54	1021	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2032	1021	1022	b3	0	0
0	c29	1.41	0				
Element	BeamColumn	2033	1022	62	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2034	62	1023	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2035	1023	1024	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2036	1024	70	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2037	70	1025	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2038	1025	1026	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2039	1026	79	b4	0	0
0	0	1.41	0				
Element	BeamColumn	2040	55	1027	b3	0	0
0	0	1.41	0				
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0	c3	1.41	0				
Element	BeamColumn	2042	1028	63	b3	0	0
0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2056	1037	1038	b3	0	0	
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2068	1045	1046	b4	0	0	
0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2070	82	1047	b3	0	0	
0	c1	1.41	0					

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0	0	1.41	0				
Element	BeamColumn	2072	1048	90	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2073	90	1049	b3	0	0
0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
Element	BeamColumn	2076	58	1051	b3	0	0
0	0	1.41	0				
Element	BeamColumn	2077	1051	1052	b3	0	0
0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
Element	BeamColumn	2084	1056	83	b4	0	0
0	0	1.41	0				
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0	0	1.41	0				
Element	BeamColumn	2086	1057	1058	b3	0	0
0	c1	1.41	0				
Element	BeamColumn	2087	1058	67	b3	0	0
0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0					
Element	BeamColumn	2099	1066	100	b3	0	0	
0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2101	1067	1068	b4	0	0	
0	0	1.41	0					
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Element	BeamColumn	2103	86	1069	b4	0	0	
0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2106	92	1071	b4	0	0	
0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2108	1072	102	b4	0	0	
0	0	1.41	0					
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0	0	1.41	0					
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Element	BeamColumn	2113	1075	1076	b4	0	0	
0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2116	1077	1078	b4	0	0	
0	0	1.41	0					
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Element	BeamColumn	2122	1081	1082	b2	0	0	
0	0	1.41	0					
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0	0	1.41	0					

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0	c16	1.41	0				
Element	BeamColumn	2126	1084	112	b2	0	0
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Element	BeamColumn	2128	1085	1086	b4	0	0
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
Element	BeamColumn	2134	1089	1090	b2	0	0
0	c21	1.41	0				
Element	BeamColumn	2135	1090	139	b2	0	0
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Element	BeamColumn	2136	139	1091	b2	0	0
0	0	1.41	0				
Element	BeamColumn	2137	1091	1092	b2	0	0
0	c26	1.41	0				
Element	BeamColumn	2138	1092	145	b2	0	0
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Element	BeamColumn	2139	105	1093	b2	0	0
0	0	1.41	0				
Element	BeamColumn	2140	1093	1094	b2	0	0
0	c18	1.41	0				
Element	BeamColumn	2141	1094	113	b2	0	0
0	0	1.41	0				
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0	0	1.41	0				
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Element	BeamColumn	2144	1096	121	b4	0	0
0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
Element	BeamColumn	2149	1099	1100	b2	0	0
0	c30	1.41	0				
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Element	BeamColumn	2151	106	1101	b2	0	0	
0	0	1.41	0					
Element	BeamColumn	2152	1101	1102	b2	0	0	
0	c18	1.41	0					
Element	BeamColumn	2153	1102	114	b2	0	0	
0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2156	1104	122	b4	0	0	
0	0	1.41	0					
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0	0	1.41	0					
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Element	BeamColumn	2167	1111	1112	b2	0	0	
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Element	BeamColumn	2173	1115	1116	b4	0	0	
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0	c30	1.41	0					

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Element	BeamColumn	2179	1119	1120	b2	0	0
0	c16	1.41	0				
Element	BeamColumn	2180	1120	116	b2	0	0
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0	0	1.41	0				
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0	c26	1.41	0				
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Element	BeamColumn	2203	1135	1136	b2	0	0

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Element	BeamColumn	2206	1137	1138	b2	0	0	
0	c16	1.41	0					
Element	BeamColumn	2207	1138	118	b2	0	0	
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Element	BeamColumn	2209	1139	1140	b4	0	0	
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Element	BeamColumn	2210	1140	126	b4	0	0	
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Element	BeamColumn	2211	126	1141	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2212	1141	1142	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2213	1142	135	b4	0	0	
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Element	BeamColumn	2215	1143	1144	b2	0	0	
0	c21	1.41	0					
Element	BeamColumn	2216	1144	142	b2	0	0	
0	0	1.41	0					
Element	BeamColumn	2217	142	1145	b2	0	0	
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Element	BeamColumn	2218	1145	1146	b2	0	0	
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Element	BeamColumn	2219	1146	151	b2	0	0	
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Element	BeamColumn	2220	127	1147	b4	0	0	
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Element	BeamColumn	2221	1147	1148	b4	0	0	
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Element	BeamColumn	2223	136	1149	b2	0	0	
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Element	BeamColumn	2224	1149	1150	b2	0	0	
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Element	BeamColumn	2225	1150	152	b2	0	0	
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Element	BeamColumn	2226	137	1151	b4	0	0	
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Element	BeamColumn	2227	1151	1152	b4	0	0	
0	c9	1.41	0					
Element	BeamColumn	2228	1152	143	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2229	143	1153	b4	0	0	
0	0	1.41	0					

Element	BeamColumn	2230	1153	1154	b4	0	0
0 c9	1.41	0					
Element	BeamColumn	2231	1154	153	b4	0	0
0 0	1.41	0					
Element	BeamColumn	2232	154	1155	b2	0	0
0 0	1.41	0					
Element	BeamColumn	2233	1155	1156	b2	0	0
0 c3	1.41	0					
Element	BeamColumn	2234	1156	162	b2	0	0
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Element	BeamColumn	2236	1157	1158	b4	0	0
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Element	BeamColumn	2237	1158	164	b4	0	0
0 0	1.41	0					
Element	BeamColumn	2238	164	1159	b4	0	0
0 0	1.41	0					
Element	BeamColumn	2239	1159	1160	b4	0	0
0 0	1.41	0					
Element	BeamColumn	2240	1160	173	b4	0	0
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Element	BeamColumn	2241	173	1161	b2	0	0
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Element	BeamColumn	2242	1161	1162	b2	0	0
0 c10	1.41	0					
Element	BeamColumn	2243	1162	183	b2	0	0
0 0	1.41	0					
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0 0	1.41	0					
Element	BeamColumn	2245	1163	1164	b2	0	0
0 0	1.41	0					
Element	BeamColumn	2246	1164	186	b2	0	0
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Element	BeamColumn	2247	165	1165	b4	0	0
0 0	1.41	0					
Element	BeamColumn	2248	1165	1166	b4	0	0
0 0	1.41	0					
Element	BeamColumn	2249	1166	174	b4	0	0
0 0	1.41	0					
Element	BeamColumn	2250	174	1167	b2	0	0
0 0	1.41	0					
Element	BeamColumn	2251	1167	1168	b2	0	0
0 c22	1.41	0					
Element	BeamColumn	2252	1168	184	b2	0	0
0 0	1.41	0					
Element	BeamColumn	2253	184	1169	b2	0	0
0 0	1.41	0					
Element	BeamColumn	2254	1169	1170	b2	0	0
0 0	1.41	0					
Element	BeamColumn	2255	1170	187	b2	0	0
0 0	1.41	0					
Element	BeamColumn	2256	166	1171	b4	0	0

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Element	BeamColumn	2257	1171	1172	b4	0	0	
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Element	BeamColumn	2258	1172	175	b4	0	0	
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Element	BeamColumn	2259	167	1173	b4	0	0	
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Element	BeamColumn	2260	1173	1174	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2261	1174	176	b4	0	0	
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Element	BeamColumn	2262	168	1175	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2263	1175	1176	b4	0	0	
0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2265	169	1177	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2266	1177	1178	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2267	1178	178	b4	0	0	
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Element	BeamColumn	2268	170	1179	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2269	1179	1180	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2270	1180	179	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2271	161	1181	b2	0	0	
0	0	1.41	0					
Element	BeamColumn	2272	1181	1182	b2	0	0	
0	c3	1.41	0					
Element	BeamColumn	2273	1182	163	b2	0	0	
0	0	1.41	0					
Element	BeamColumn	2274	163	1183	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2275	1183	1184	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2276	1184	171	b4	0	0	
0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2278	1185	1186	b4	0	0	
0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2280	172	1187	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2281	1187	1188	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2282	1188	181	b4	0	0	
0	0	1.41	0					

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Element	BeamColumn	2285	1190	185	b4	0	0
0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	c4	1.41	0				
Element	BeamColumn	2291	1194	204	b2	0	0
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	c11	1.41	0				
Element	BeamColumn	2300	1200	225	b2	0	0
0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	c17	1.41	0				
Element	BeamColumn	2306	1204	207	b2	0	0
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0	0	1.41	0				
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Element	BeamColumn	2311	1207	1208	b2	0	0	
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Element	BeamColumn	2312	1208	226	b2	0	0	
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0	0	1.41	0					
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0	0	1.41	0					
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Element	BeamColumn	2323	1215	1216	b2	0	0	
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Element	BeamColumn	2326	1217	1218	b4	0	0	
0	0	1.41	0					
Element	BeamColumn	2327	1218	218	b4	0	0	
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0	0	1.41	0					
Element	BeamColumn	2329	1219	1220	b2	0	0	
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2335	1223	1224	b2	0	0	
0	c17	1.41	0					

Element	BeamColumn	2336	1224	211	b2	0	0
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0	0	1.41	0				
Element	BeamColumn	2338	1225	1226	b4	0	0
0	0	1.41	0				
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0	0	1.41	0				
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0	c17	1.41	0				
Element	BeamColumn	2342	1228	212	b2	0	0
0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2377	1251	1252	b1	0	0	
0	c14	1.41	0					
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0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2386	1257	1258	b1	0	0	
0	c24	1.41	0					
Element	BeamColumn	2387	1258	268	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2388	268	1259	b1	0	0	
0	0	1.41	0					

Element	BeamColumn	2389	1259	1260	b1	0	0
0	c27	1.41	0				
Element	BeamColumn	2390	1260	271	b1	0	0
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0	0	1.41	0				
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0	c19	1.41	0				
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0	0	1.41	0				
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0	0	1.41	0				
Element	BeamColumn	2396	1264	259	b1	0	0
0	0	1.41	0				
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0	0	1.41	0				
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0	c19	1.41	0				
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Element	BeamColumn	2404	1269	1270	b1	0	0
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Element	BeamColumn	2405	1270	260	b1	0	0
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Element	BeamColumn	2406	260	1271	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2407	1271	1272	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2408	1272	273	b1	0	0
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Element	BeamColumn	2409	242	1273	b1	0	0
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Element	BeamColumn	2410	1273	1274	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2411	1274	252	b1	0	0
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Element	BeamColumn	2412	252	1275	b1	0	0
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Element	BeamColumn	2413	1275	1276	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2414	1276	261	b1	0	0
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Element	BeamColumn	2415	261	1277	b1	0	0

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Element	BeamColumn	2417	1278	274	b1	0	0	
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Element	BeamColumn	2418	243	1279	b1	0	0	
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Element	BeamColumn	2419	1279	1280	b1	0	0	
0	c19	1.41	0					
Element	BeamColumn	2420	1280	253	b1	0	0	
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Element	BeamColumn	2421	253	1281	b1	0	0	
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Element	BeamColumn	2422	1281	1282	b1	0	0	
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Element	BeamColumn	2424	262	1283	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2425	1283	1284	b1	0	0	
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Element	BeamColumn	2426	1284	275	b1	0	0	
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Element	BeamColumn	2427	244	1285	b1	0	0	
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Element	BeamColumn	2428	1285	1286	b1	0	0	
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Element	BeamColumn	2430	254	1287	b1	0	0	
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Element	BeamColumn	2431	1287	1288	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2432	1288	263	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2433	263	1289	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2434	1289	1290	b1	0	0	
0	c19	1.41	0					
Element	BeamColumn	2435	1290	276	b1	0	0	
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Element	BeamColumn	2436	245	1291	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2437	1291	1292	b1	0	0	
0	c5	1.41	0					
Element	BeamColumn	2438	1292	247	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2439	247	1293	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2440	1293	1294	b1	0	0	
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Element	BeamColumn	2441	1294	255	b1	0	0	
0	0	1.41	0					

Element	BeamColumn	2442	255	1295	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2443	1295	1296	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2444	1296	264	b1	0	0
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Element	BeamColumn	2445	264	1297	b1	0	0
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Element	BeamColumn	2446	1297	1298	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2447	1298	277	b1	0	0
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Element	BeamColumn	2448	256	1299	b1	0	0
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Element	BeamColumn	2449	1299	1300	b1	0	0
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Element	BeamColumn	2451	265	1301	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2452	1301	1302	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2453	1302	278	b1	0	0
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Element	BeamColumn	2456	1304	269	b1	0	0
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Element	BeamColumn	2461	1307	1308	b1	0	0
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Element	BeamColumn	2462	1308	288	b1	0	0
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Element	BeamColumn	2466	290	1311	b1	0	0
0	0	1.41	0				
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0	0	1.41	0				
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Element	BeamColumn	2470	1313	1314	b1	0	0	
0	c13	1.41	0					
Element	BeamColumn	2471	1314	309	b1	0	0	
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Element	BeamColumn	2472	309	1315	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2473	1315	1316	b1	0	0	
0	c14	1.41	0					
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Element	BeamColumn	2476	1317	1318	b1	0	0	
0	c19	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2478	291	1319	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2479	1319	1320	b1	0	0	
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Element	BeamColumn	2481	300	1321	b1	0	0	
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Element	BeamColumn	2482	1321	1322	b1	0	0	
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Element	BeamColumn	2483	1322	310	b1	0	0	
0	0	1.41	0					
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0	0	1.41	0					
Element	BeamColumn	2485	1323	1324	b1	0	0	
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Element	BeamColumn	2486	1324	313	b1	0	0	
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Element	BeamColumn	2487	282	1325	b1	0	0	
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Element	BeamColumn	2488	1325	1326	b1	0	0	
0	c19	1.41	0					
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Element	BeamColumn	2490	292	1327	b1	0	0	
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Element	BeamColumn	2491	1327	1328	b1	0	0	
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0	0	1.41	0					
Element	BeamColumn	2493	301	1329	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2494	1329	1330	b1	0	0	
0	c19	1.41	0					

Element	BeamColumn	2495	1330	314	b1	0	0
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Element	BeamColumn	2496	283	1331	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2497	1331	1332	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2498	1332	293	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2499	293	1333	b1	0	0
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Element	BeamColumn	2500	1333	1334	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2501	1334	302	b1	0	0
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Element	BeamColumn	2502	302	1335	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2503	1335	1336	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2504	1336	315	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2505	284	1337	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2506	1337	1338	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2507	1338	294	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2508	294	1339	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2509	1339	1340	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2510	1340	303	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2511	303	1341	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2512	1341	1342	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2513	1342	316	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2514	285	1343	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2515	1343	1344	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2516	1344	295	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2517	295	1345	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2518	1345	1346	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2519	1346	304	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2520	304	1347	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2521	1347	1348	b1	0	0

0	c19	1.41	0					
Element	BeamColumn	2522	1348	317	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2523	286	1349	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2524	1349	1350	b1	0	0	
0	c19	1.41	0					
Element	BeamColumn	2525	1350	296	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2526	296	1351	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2527	1351	1352	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2528	1352	305	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2529	305	1353	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2530	1353	1354	b1	0	0	
0	c19	1.41	0					
Element	BeamColumn	2531	1354	318	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2532	287	1355	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2533	1355	1356	b1	0	0	
0	c6	1.41	0					
Element	BeamColumn	2534	1356	289	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2535	289	1357	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2536	1357	1358	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2537	1358	297	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2538	297	1359	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2539	1359	1360	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2540	1360	306	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2541	306	1361	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2542	1361	1362	b1	0	0	
0	c19	1.41	0					
Element	BeamColumn	2543	1362	319	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2544	298	1363	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2545	1363	1364	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2546	1364	307	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2547	307	1365	b1	0	0	
0	0	1.41	0					

Element	BeamColumn	2548	1365	1366	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2549	1366	320	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2550	308	1367	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2551	1367	1368	b1	0	0
0	c13	1.41	0				
Element	BeamColumn	2552	1368	311	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2553	311	1369	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2554	1369	1370	b1	0	0
0	c14	1.41	0				
Element	BeamColumn	2555	1370	321	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2556	322	1371	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2557	1371	1372	b1	0	0
0	c7	1.41	0				
Element	BeamColumn	2558	1372	330	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2559	330	1373	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2560	1373	1374	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2561	1374	332	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2562	332	1375	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2563	1375	1376	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2564	1376	341	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2565	341	1377	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2566	1377	1378	b1	0	0
0	c12	1.41	0				
Element	BeamColumn	2567	1378	351	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2568	351	1379	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2569	1379	1380	b1	0	0
0	c14	1.41	0				
Element	BeamColumn	2570	1380	354	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2571	323	1381	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2572	1381	1382	b1	0	0
0	c18	1.41	0				
Element	BeamColumn	2573	1382	333	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2574	333	1383	b1	0	0

0	0	1.41	0					
Element	BeamColumn	2575	1383	1384	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2576	1384	342	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2577	342	1385	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2578	1385	1386	b1	0	0	
0	c24	1.41	0					
Element	BeamColumn	2579	1386	352	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2580	352	1387	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2581	1387	1388	b1	0	0	
0	c27	1.41	0					
Element	BeamColumn	2582	1388	355	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2583	324	1389	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2584	1389	1390	b1	0	0	
0	c19	1.41	0					
Element	BeamColumn	2585	1390	334	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2586	334	1391	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2587	1391	1392	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2588	1392	343	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2589	343	1393	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2590	1393	1394	b1	0	0	
0	c19	1.41	0					
Element	BeamColumn	2591	1394	356	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2592	325	1395	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2593	1395	1396	b1	0	0	
0	c19	1.41	0					
Element	BeamColumn	2594	1396	335	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2595	335	1397	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2596	1397	1398	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2597	1398	344	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2598	344	1399	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2599	1399	1400	b1	0	0	
0	c19	1.41	0					
Element	BeamColumn	2600	1400	357	b1	0	0	
0	0	1.41	0					

Element	BeamColumn	2601	326	1401	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2602	1401	1402	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2603	1402	336	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2604	336	1403	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2605	1403	1404	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2606	1404	345	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2607	345	1405	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2608	1405	1406	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2609	1406	358	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2610	327	1407	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2611	1407	1408	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2612	1408	337	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2613	337	1409	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2614	1409	1410	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2615	1410	346	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2616	346	1411	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2617	1411	1412	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2618	1412	359	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2619	328	1413	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2620	1413	1414	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2621	1414	338	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2622	338	1415	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2623	1415	1416	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2624	1416	347	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2625	347	1417	b1	0	0
0	0	1.41	0				
Element	BeamColumn	2626	1417	1418	b1	0	0
0	c19	1.41	0				
Element	BeamColumn	2627	1418	360	b1	0	0

0	0	1.41	0					
Element	BeamColumn	2628	329	1419	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2629	1419	1420	b1	0	0	
0	c7	1.41	0					
Element	BeamColumn	2630	1420	331	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2631	331	1421	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2632	1421	1422	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2633	1422	339	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2634	339	1423	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2635	1423	1424	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2636	1424	348	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2637	348	1425	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2638	1425	1426	b1	0	0	
0	c19	1.41	0					
Element	BeamColumn	2639	1426	361	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2640	340	1427	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2641	1427	1428	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2642	1428	349	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2643	349	1429	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2644	1429	1430	b1	0	0	
0	c19	1.41	0					
Element	BeamColumn	2645	1430	362	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2646	350	1431	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2647	1431	1432	b1	0	0	
0	c13	1.41	0					
Element	BeamColumn	2648	1432	353	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2649	353	1433	b1	0	0	
0	0	1.41	0					
Element	BeamColumn	2650	1433	1434	b1	0	0	
0	c14	1.41	0					
Element	BeamColumn	2651	1434	363	b1	0	0	
0	0	1.41	0					

//Element	Truss	Tag?	I?	J?	MatTag?	Area?	GeoK?	Out?
FEFCase?	Fac?	E_Gp?	Force_Gp?					
Element	Truss	10001	60	53	S	100	0	0
Element	Truss	10002	52	61	S	100	0	0
Element	Truss	10003	61	54	S	100	0	0
Element	Truss	10004	53	62	S	100	0	0
Element	Truss	10005	66	59	S	100	0	0
Element	Truss	10006	58	67	S	100	0	0
Element	Truss	10007	68	61	S	100	0	0
Element	Truss	10008	60	69	S	100	0	0
Element	Truss	10009	69	62	S	100	0	0
Element	Truss	10010	61	70	S	100	0	0
Element	Truss	10011	70	63	S	100	0	0
Element	Truss	10012	62	71	S	100	0	0
Element	Truss	10013	71	64	S	100	0	0
Element	Truss	10014	63	72	S	100	0	0
Element	Truss	10015	72	65	S	100	0	0
Element	Truss	10016	64	73	S	100	0	0
Element	Truss	10017	73	66	S	100	0	0
Element	Truss	10018	65	74	S	100	0	0
Element	Truss	10019	74	67	S	100	0	0
Element	Truss	10020	66	75	S	100	0	0
Element	Truss	10021	77	69	S	100	0	0
Element	Truss	10022	68	78	S	100	0	0
Element	Truss	10023	78	70	S	100	0	0
Element	Truss	10024	69	79	S	100	0	0
Element	Truss	10025	79	71	S	100	0	0
Element	Truss	10026	70	80	S	100	0	0
Element	Truss	10027	80	72	S	100	0	0
Element	Truss	10028	71	81	S	100	0	0
Element	Truss	10029	81	73	S	100	0	0
Element	Truss	10030	72	82	S	100	0	0
Element	Truss	10031	82	74	S	100	0	0
Element	Truss	10032	73	83	S	100	0	0
Element	Truss	10033	83	75	S	100	0	0
Element	Truss	10034	74	84	S	100	0	0
Element	Truss	10035	84	76	S	100	0	0
Element	Truss	10036	75	85	S	100	0	0
Element	Truss	10037	87	78	S	100	0	0
Element	Truss	10038	77	88	S	100	0	0
Element	Truss	10039	93	88	S	100	0	0
Element	Truss	10040	87	94	S	100	0	0
Element	Truss	10041	111	104	S	100	0	0
Element	Truss	10042	103	112	S	100	0	0
Element	Truss	10043	112	105	S	100	0	0
Element	Truss	10044	104	113	S	100	0	0
Element	Truss	10045	113	106	S	100	0	0
Element	Truss	10046	105	114	S	100	0	0
Element	Truss	10047	114	107	S	100	0	0
Element	Truss	10048	106	115	S	100	0	0
Element	Truss	10049	115	108	S	100	0	0

Element	Truss	10050	107	116	S	100	0	0
Element	Truss	10051	116	109	S	100	0	0
Element	Truss	10052	108	117	S	100	0	0
Element	Truss	10053	117	110	S	100	0	0
Element	Truss	10054	109	118	S	100	0	0
Element	Truss	10055	119	112	S	100	0	0
Element	Truss	10056	111	120	S	100	0	0
Element	Truss	10057	120	113	S	100	0	0
Element	Truss	10058	112	121	S	100	0	0
Element	Truss	10059	121	114	S	100	0	0
Element	Truss	10060	113	122	S	100	0	0
Element	Truss	10061	122	115	S	100	0	0
Element	Truss	10062	114	123	S	100	0	0
Element	Truss	10063	123	116	S	100	0	0
Element	Truss	10064	115	124	S	100	0	0
Element	Truss	10065	124	117	S	100	0	0
Element	Truss	10066	116	125	S	100	0	0
Element	Truss	10067	125	118	S	100	0	0
Element	Truss	10068	117	126	S	100	0	0
Element	Truss	10069	128	120	S	100	0	0
Element	Truss	10070	119	129	S	100	0	0
Element	Truss	10071	129	121	S	100	0	0
Element	Truss	10072	120	130	S	100	0	0
Element	Truss	10073	130	122	S	100	0	0
Element	Truss	10074	121	131	S	100	0	0
Element	Truss	10075	131	123	S	100	0	0
Element	Truss	10076	122	132	S	100	0	0
Element	Truss	10077	132	124	S	100	0	0
Element	Truss	10078	123	133	S	100	0	0
Element	Truss	10079	133	125	S	100	0	0
Element	Truss	10080	124	134	S	100	0	0
Element	Truss	10081	134	126	S	100	0	0
Element	Truss	10082	125	135	S	100	0	0
Element	Truss	10083	135	127	S	100	0	0
Element	Truss	10084	126	136	S	100	0	0
Element	Truss	10085	138	129	S	100	0	0
Element	Truss	10086	128	139	S	100	0	0
Element	Truss	10087	144	139	S	100	0	0
Element	Truss	10088	138	145	S	100	0	0
Element	Truss	10089	145	131	S	100	0	0
Element	Truss	10090	129	147	S	100	0	0
Element	Truss	10091	147	133	S	100	0	0
Element	Truss	10092	131	149	S	100	0	0
Element	Truss	10093	149	135	S	100	0	0
Element	Truss	10094	133	151	S	100	0	0
Element	Truss	10095	151	137	S	100	0	0
Element	Truss	10096	135	153	S	100	0	0
Element	Truss	10097	173	165	S	100	0	0
Element	Truss	10098	164	174	S	100	0	0
Element	Truss	10099	174	166	S	100	0	0
Element	Truss	10100	165	175	S	100	0	0
Element	Truss	10101	175	167	S	100	0	0
Element	Truss	10102	166	176	S	100	0	0

Element	Truss	10103	176	168	S	100	0	0
Element	Truss	10104	167	177	S	100	0	0
Element	Truss	10105	177	169	S	100	0	0
Element	Truss	10106	168	178	S	100	0	0
Element	Truss	10107	178	170	S	100	0	0
Element	Truss	10108	169	179	S	100	0	0
Element	Truss	10109	179	171	S	100	0	0
Element	Truss	10110	170	180	S	100	0	0
Element	Truss	10111	180	172	S	100	0	0
Element	Truss	10112	171	181	S	100	0	0
Element	Truss	10113	183	174	S	100	0	0
Element	Truss	10114	173	184	S	100	0	0
Element	Truss	10115	186	184	S	100	0	0
Element	Truss	10116	183	187	S	100	0	0
Element	Truss	10117	206	197	S	100	0	0
Element	Truss	10118	196	207	S	100	0	0
Element	Truss	10119	207	198	S	100	0	0
Element	Truss	10120	197	208	S	100	0	0
Element	Truss	10121	208	199	S	100	0	0
Element	Truss	10122	198	209	S	100	0	0
Element	Truss	10123	209	200	S	100	0	0
Element	Truss	10124	199	210	S	100	0	0
Element	Truss	10125	210	201	S	100	0	0
Element	Truss	10126	200	211	S	100	0	0
Element	Truss	10127	211	202	S	100	0	0
Element	Truss	10128	201	212	S	100	0	0
Element	Truss	10129	212	203	S	100	0	0
Element	Truss	10130	202	213	S	100	0	0
Element	Truss	10131	215	207	S	100	0	0
Element	Truss	10132	206	216	S	100	0	0
Element	Truss	10133	216	208	S	100	0	0
Element	Truss	10134	207	217	S	100	0	0
Element	Truss	10135	217	209	S	100	0	0
Element	Truss	10136	208	218	S	100	0	0
Element	Truss	10137	218	210	S	100	0	0
Element	Truss	10138	209	219	S	100	0	0
Element	Truss	10139	219	211	S	100	0	0
Element	Truss	10140	210	220	S	100	0	0
Element	Truss	10141	220	212	S	100	0	0
Element	Truss	10142	211	221	S	100	0	0
Element	Truss	10143	221	213	S	100	0	0
Element	Truss	10144	212	222	S	100	0	0
Element	Truss	10145	222	214	S	100	0	0
Element	Truss	10146	213	223	S	100	0	0
Element	Truss	10147	225	216	S	100	0	0
Element	Truss	10148	215	226	S	100	0	0
Element	Truss	10149	228	226	S	100	0	0
Element	Truss	10150	225	229	S	100	0	0
Element	Truss	10151	248	239	S	100	0	0
Element	Truss	10152	238	249	S	100	0	0
Element	Truss	10153	249	240	S	100	0	0
Element	Truss	10154	239	250	S	100	0	0
Element	Truss	10155	250	241	S	100	0	0

Element	Truss	10156	240	251	S	100	0	0
Element	Truss	10157	251	242	S	100	0	0
Element	Truss	10158	241	252	S	100	0	0
Element	Truss	10159	252	243	S	100	0	0
Element	Truss	10160	242	253	S	100	0	0
Element	Truss	10161	253	244	S	100	0	0
Element	Truss	10162	243	254	S	100	0	0
Element	Truss	10163	254	245	S	100	0	0
Element	Truss	10164	244	255	S	100	0	0
Element	Truss	10165	257	249	S	100	0	0
Element	Truss	10166	248	258	S	100	0	0
Element	Truss	10167	258	250	S	100	0	0
Element	Truss	10168	249	259	S	100	0	0
Element	Truss	10169	259	251	S	100	0	0
Element	Truss	10170	250	260	S	100	0	0
Element	Truss	10171	260	252	S	100	0	0
Element	Truss	10172	251	261	S	100	0	0
Element	Truss	10173	261	253	S	100	0	0
Element	Truss	10174	252	262	S	100	0	0
Element	Truss	10175	262	254	S	100	0	0
Element	Truss	10176	253	263	S	100	0	0
Element	Truss	10177	263	255	S	100	0	0
Element	Truss	10178	254	264	S	100	0	0
Element	Truss	10179	264	256	S	100	0	0
Element	Truss	10180	255	265	S	100	0	0
Element	Truss	10181	267	258	S	100	0	0
Element	Truss	10182	257	268	S	100	0	0
Element	Truss	10183	270	268	S	100	0	0
Element	Truss	10184	267	271	S	100	0	0
Element	Truss	10185	271	259	S	100	0	0
Element	Truss	10186	258	272	S	100	0	0
Element	Truss	10187	272	260	S	100	0	0
Element	Truss	10188	259	273	S	100	0	0
Element	Truss	10189	273	261	S	100	0	0
Element	Truss	10190	260	274	S	100	0	0
Element	Truss	10191	274	262	S	100	0	0
Element	Truss	10192	261	275	S	100	0	0
Element	Truss	10193	275	263	S	100	0	0
Element	Truss	10194	262	276	S	100	0	0
Element	Truss	10195	276	264	S	100	0	0
Element	Truss	10196	263	277	S	100	0	0
Element	Truss	10197	277	265	S	100	0	0
Element	Truss	10198	264	278	S	100	0	0
Element	Truss	10199	278	266	S	100	0	0
Element	Truss	10200	265	279	S	100	0	0
Element	Truss	10201	290	281	S	100	0	0
Element	Truss	10202	280	291	S	100	0	0
Element	Truss	10203	291	282	S	100	0	0
Element	Truss	10204	281	292	S	100	0	0
Element	Truss	10205	292	283	S	100	0	0
Element	Truss	10206	282	293	S	100	0	0
Element	Truss	10207	293	284	S	100	0	0
Element	Truss	10208	283	294	S	100	0	0

Element	Truss	10209	294	285	S	100	0	0
Element	Truss	10210	284	295	S	100	0	0
Element	Truss	10211	295	286	S	100	0	0
Element	Truss	10212	285	296	S	100	0	0
Element	Truss	10213	296	287	S	100	0	0
Element	Truss	10214	286	297	S	100	0	0
Element	Truss	10215	299	291	S	100	0	0
Element	Truss	10216	290	300	S	100	0	0
Element	Truss	10217	300	292	S	100	0	0
Element	Truss	10218	291	301	S	100	0	0
Element	Truss	10219	301	293	S	100	0	0
Element	Truss	10220	292	302	S	100	0	0
Element	Truss	10221	302	294	S	100	0	0
Element	Truss	10222	293	303	S	100	0	0
Element	Truss	10223	303	295	S	100	0	0
Element	Truss	10224	294	304	S	100	0	0
Element	Truss	10225	304	296	S	100	0	0
Element	Truss	10226	295	305	S	100	0	0
Element	Truss	10227	305	297	S	100	0	0
Element	Truss	10228	296	306	S	100	0	0
Element	Truss	10229	306	298	S	100	0	0
Element	Truss	10230	297	307	S	100	0	0
Element	Truss	10231	309	300	S	100	0	0
Element	Truss	10232	299	310	S	100	0	0
Element	Truss	10233	312	310	S	100	0	0
Element	Truss	10234	309	313	S	100	0	0
Element	Truss	10235	313	301	S	100	0	0
Element	Truss	10236	300	314	S	100	0	0
Element	Truss	10237	314	302	S	100	0	0
Element	Truss	10238	301	315	S	100	0	0
Element	Truss	10239	315	303	S	100	0	0
Element	Truss	10240	302	316	S	100	0	0
Element	Truss	10241	316	304	S	100	0	0
Element	Truss	10242	303	317	S	100	0	0
Element	Truss	10243	317	305	S	100	0	0
Element	Truss	10244	304	318	S	100	0	0
Element	Truss	10245	318	306	S	100	0	0
Element	Truss	10246	305	319	S	100	0	0
Element	Truss	10247	319	307	S	100	0	0
Element	Truss	10248	306	320	S	100	0	0
Element	Truss	10249	320	308	S	100	0	0
Element	Truss	10250	307	321	S	100	0	0
Element	Truss	10251	332	323	S	100	0	0
Element	Truss	10252	322	333	S	100	0	0
Element	Truss	10253	333	324	S	100	0	0
Element	Truss	10254	323	334	S	100	0	0
Element	Truss	10255	334	325	S	100	0	0
Element	Truss	10256	324	335	S	100	0	0
Element	Truss	10257	335	326	S	100	0	0
Element	Truss	10258	325	336	S	100	0	0
Element	Truss	10259	336	327	S	100	0	0
Element	Truss	10260	326	337	S	100	0	0
Element	Truss	10261	337	328	S	100	0	0

Element	Truss	10262	327	338	S	100	0	0
Element	Truss	10263	338	329	S	100	0	0
Element	Truss	10264	328	339	S	100	0	0
Element	Truss	10265	341	333	S	100	0	0
Element	Truss	10266	332	342	S	100	0	0
Element	Truss	10267	342	334	S	100	0	0
Element	Truss	10268	333	343	S	100	0	0
Element	Truss	10269	343	335	S	100	0	0
Element	Truss	10270	334	344	S	100	0	0
Element	Truss	10271	344	336	S	100	0	0
Element	Truss	10272	335	345	S	100	0	0
Element	Truss	10273	345	337	S	100	0	0
Element	Truss	10274	336	346	S	100	0	0
Element	Truss	10275	346	338	S	100	0	0
Element	Truss	10276	337	347	S	100	0	0
Element	Truss	10277	347	339	S	100	0	0
Element	Truss	10278	338	348	S	100	0	0
Element	Truss	10279	348	340	S	100	0	0
Element	Truss	10280	339	349	S	100	0	0
Element	Truss	10281	351	342	S	100	0	0
Element	Truss	10282	341	352	S	100	0	0
Element	Truss	10283	354	352	S	100	0	0
Element	Truss	10284	351	355	S	100	0	0
Element	Truss	10285	355	343	S	100	0	0
Element	Truss	10286	342	356	S	100	0	0
Element	Truss	10287	356	344	S	100	0	0
Element	Truss	10288	343	357	S	100	0	0
Element	Truss	10289	357	345	S	100	0	0
Element	Truss	10290	344	358	S	100	0	0
Element	Truss	10291	358	346	S	100	0	0
Element	Truss	10292	345	359	S	100	0	0
Element	Truss	10293	359	347	S	100	0	0
Element	Truss	10294	346	360	S	100	0	0
Element	Truss	10295	360	348	S	100	0	0
Element	Truss	10296	347	361	S	100	0	0
Element	Truss	10297	361	349	S	100	0	0
Element	Truss	10298	348	362	S	100	0	0
Element	Truss	10299	362	350	S	100	0	0
Element	Truss	10300	349	363	S	100	0	0
Element	Truss	10301	152	143	S	100	0	0
Element	Truss	10302	136	143	S	100	0	0
Element	Truss	10303	204	207	S	100	0	0
Element	Truss	10304	204	197	S	100	0	0
Element	Truss	10305	212	205	S	100	0	0
Element	Truss	10306	202	205	S	100	0	0
Element	Truss	10307	246	249	S	100	0	0
Element	Truss	10308	246	239	S	100	0	0
Element	Truss	10309	254	247	S	100	0	0
Element	Truss	10310	244	247	S	100	0	0
Element	Truss	10311	278	269	S	100	0	0
Element	Truss	10312	265	269	S	100	0	0
Element	Truss	10313	288	291	S	100	0	0
Element	Truss	10314	288	281	S	100	0	0

Element	Truss	10315	296	289	S	100	0	0
Element	Truss	10316	286	289	S	100	0	0
Element	Truss	10317	320	311	S	100	0	0
Element	Truss	10318	307	311	S	100	0	0
Element	Truss	10319	330	333	S	100	0	0
Element	Truss	10320	330	323	S	100	0	0
Element	Truss	10321	338	331	S	100	0	0
Element	Truss	10322	328	331	S	100	0	0
Element	Truss	10323	362	353	S	100	0	0
Element	Truss	10324	349	353	S	100	0	0
Element	Truss	10325	146	140	S	100	0	0
Element	Truss	10326	148	141	S	100	0	0
Element	Truss	10327	150	142	S	100	0	0

----End
 Command----
 //Stop
 STOP

Input



A

