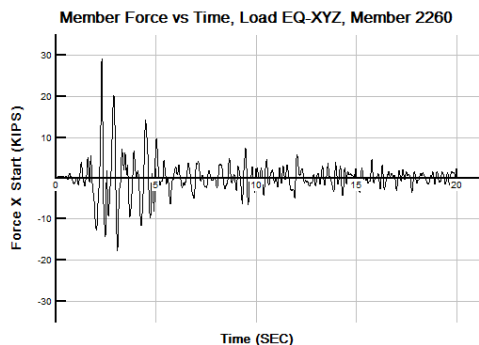




Supporting GT STRUDL Models for Hexagon Webinar

Modeling and Analysis of Friction Bearing Base Isolation

Ravi Ozarker, P.E., P.Eng.,

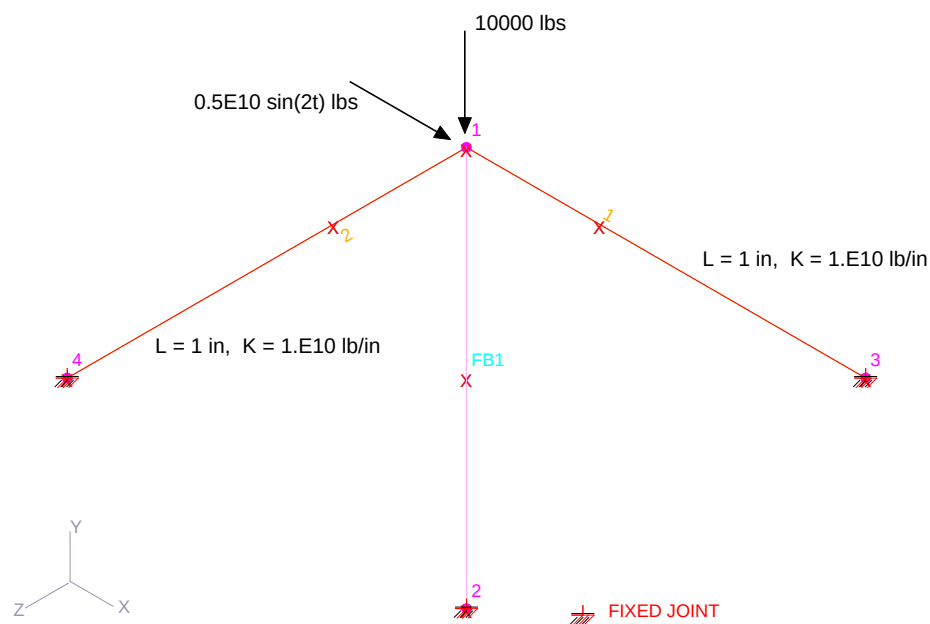
Geoff Blumber

26-Mar-2020

Contents

Example #1: Basic Behavior	2
Example #2: Basic Behavior	5
Example # 3: Basic Behavior	8
Example 4: Simple Steel Rack	11
Example 5: Foothill Center, San Bernardino, San Bernardino County, California	30

Example #1: Basic Behavior



```

INCHES  LBS
UNITS

JOINT COORDINATES
1 0.0  0.0
2 0.0 -1.0      S
3 1.0  0.0      S
4 0.0  0.0  1.0 S

TYPE SPACE TRUSS

MEMBER INCIDENCES
1 1 3
2 1 4
```

CONSTANTS

E 1.E10

MEMBER PROPERTIES

1 2 AX 1.0

BASE ISOLATION ELEMENT DATA

'FB1' INCIDENCES START 2 END 1 TYPE FRICTION BEARING -

PLANE XZ UY 0.005 KAX 1.E8 FRICTION CONSTANT FC 0.05

END

PRINT ELEMENT PROPERTIES

LOAD 1

JOINT LOADS

1 FORCE Y -10000.0

MAXIMUM NUMBER OF CYCLES 10

CONVERGENCE TOLERANCE EQUIL 0.001

NONLINEAR ANALYSIS

UNITS CYCLES SECONDS

TRANSIENT LOAD 'TL1'

JOINT 1 FORCE X FUNCT SINE AMPL 0.5E10 FREQ 2.0

INTEGRATE -

FROM 0.000000 TO 1.0 AT 0.001

END TRANSIENT LOAD

LOAD LIST 'TL1'

DYNAMIC PARAMETERS

STORE VELOCITY ON

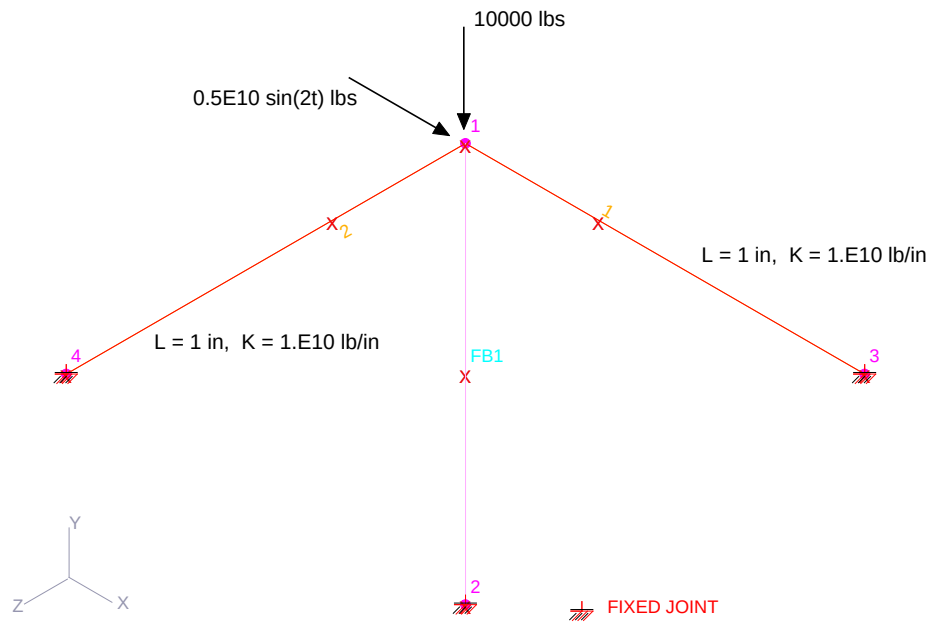
STORE ACCELERATION ON
STORE ABSOLUTE ACCELERATION
USE EXTERNAL FILE SOLVER
MAXIMUM NUMBER OF EQUILIBRIUM CYCLES 20
CONVERGENCE TOLERANCE ENERGY 0.001
INITIAL STRESS LOAD '1'
PRINT MAX
END OF DYNAMIC PARAMETERS

INERTIA OF JOINTS WEIGHT
EXISTING TRANSL ALL 1.0

DAMPING PROPORTIONAL TO STIFFN 0.005

DYNAMIC ANALYSIS NONLINEAR BETA 0.250000

Example #2: Basic Behavior



UNITS INCHES LBS

JOINT COORDINATES

1	0.0	0.0	
2	0.0	-1.0	S
3	1.0	0.0	S
4	0.0	0.0	1.0 S

TYPE SPACE TRUSS

MEMBER INCIDENCES

1	1	3
2	1	4

CONSTANTS

E 1.E10

MEMBER PROPERTIES

1 2 AX 1.0

BASE ISOLATION ELEMENT ELEMENT DATA

'FB1' INCIDENCES START 2 END 1 TYPE FRICTION BEARING -

PLANE XZ UY 0.005 KAX 1.E8 ACS 10.0 -

FRICTION VARIABLE ALPHA 0.6 EPS 0.012 FMIN 0.03 -

FMAX0 0.12 FMAXP 0.05

END

LOAD 1

JOINT LOADS

1 FORCE Y -10000.0

MAXIMUM NUMBER OF CYCLES 10

CONVERGENCE TOLERANCE EQUIL 0.001

NONLINEAR ANALYSIS

UNITS CYCLES SECONDS

TRANSIENT LOAD 'TL1'

JOINT 1 FORCE X FUNCT SINE AMPL 0.5E10 FREQ 2.0

INTEGRATE -

FROM 0.000000 TO 1.0 AT 0.001

END TRANSIENT LOAD

LOAD LIST 'TL1'

DYNAMIC PARAMETERS

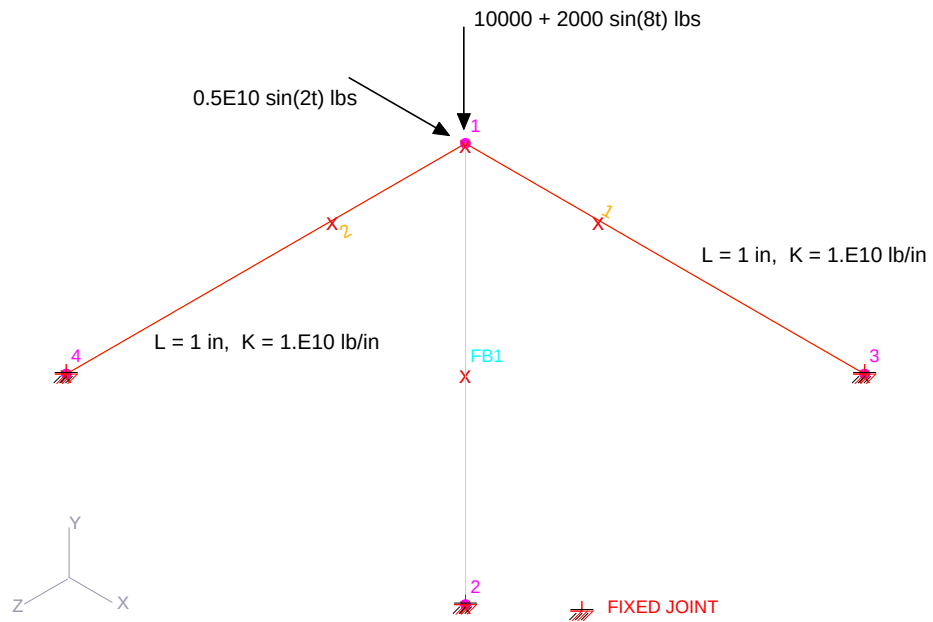
STORE VELOCITY ON
STORE ACCELERATION ON
STORE ABSOLUTE ACCELERATION
USE EXTERNAL FILE SOLVER
MAXIMUM NUMBER OF EQUILIBRIUM CYCLES 20
CONVERGENCE TOLERANCE ENERGY 0.001
INITIAL STRESS LOAD '1'
PRINT MAX
END OF DYNAMIC PARAMETERS

INERTIA OF JOINTS WEIGHT
EXISTING TRANSL ALL 1.0

DAMPING PROPORTIONAL TO STIFFN 0.005

DYNAMIC ANALYSIS NONLINEAR BETA 0.250000

Example # 3: Basic Behavior



UNITS INCHES LBS

JOINT COORDINATES

1	0.0	0.0	
2	0.0	-1.0	S
3	1.0	0.0	S
4	0.0	0.0	1.0 S

TYPE SPACE TRUSS

MEMBER INCIDENCES

1	1	3
---	---	---

2 1 4

CONSTANTS

E 1.E10

MEMBER PROPERTIES

1 2 AX 1.0

BASE ISOLATION ELEMENT ELEMENT DATA

'FB1' INCIDENCES START 2 END 1 TYPE FRICTION BEARING -
PLANE XZ UY 0.005 KAX 1.E8 ACS 10.0 -
FRICTION VARIABLE ALPHA 0.6 EPS 0.012 FMIN 0.03 -
FMAX0 0.12 FMAXP 0.05

END

LOAD 1

JOINT LOADS

1 FORCE Y -10000.0

MAXIMUM NUMBER OF CYCLES 10

CONVERGENCE TOLERANCE EQUIL 0.001

NONLINEAR ANALYSIS

UNITS CYCLES SECONDS

TRANSIENT LOAD 'TL1'

JOINT 1 FORCE X FUNCT SINE AMPL 0.5E10 FREQ 2.0

JOINT 1 FORCE Y FUNCT SINE AMPL 2000.0 FREQ 8.0

INTEGRATE -

FROM 0.000000 TO 1.0 AT 0.001

END TRANSIENT LOAD

LOAD LIST 'TL1'

DYNAMIC PARAMETERS

STORE VELOCITY ON

STORE ACCELERATION ON

STORE ABSOLUTE ACCELERATION

USE EXTERNAL FILE SOLVER

MAXIMUM NUMBER OF EQUILIBRIUM CYCLES 20

CONVERGENCE TOLERANCE ENERGY 0.001

INITIAL STRESS LOAD '1'

PRINT MAX

END OF DYNAMIC PARAMETERS

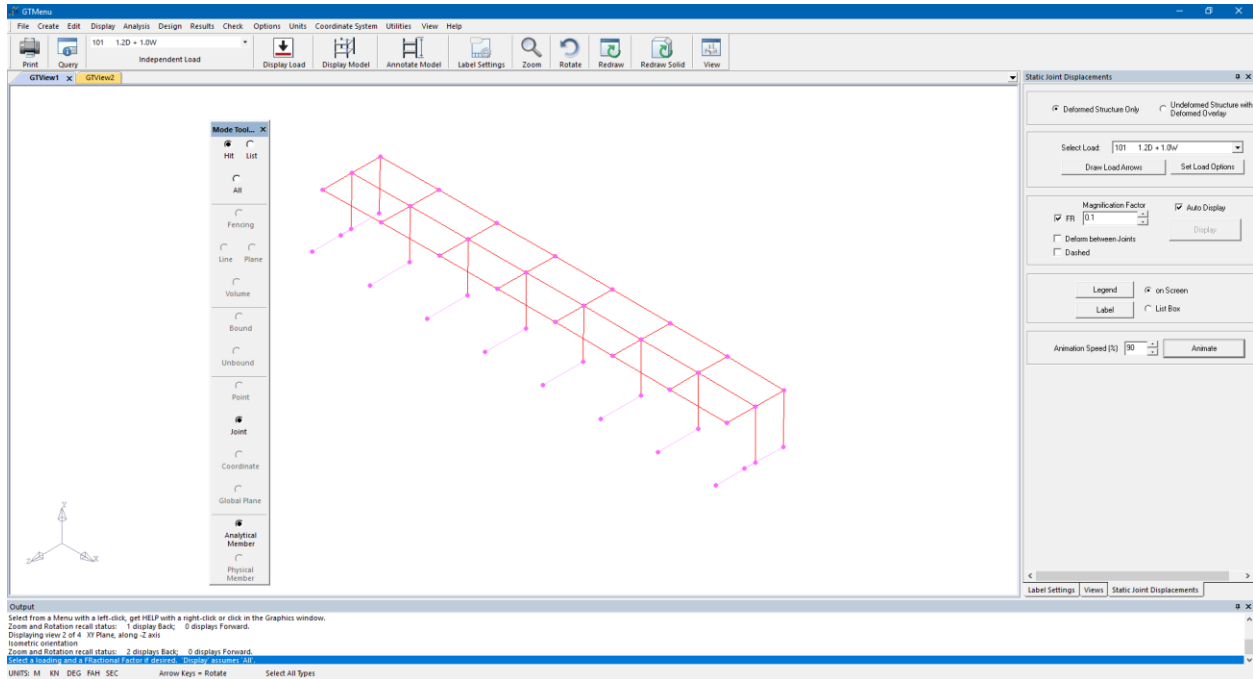
INERTIA OF JOINTS WEIGHT

EXISTING TRANSL ALL 1.0

DAMPING PROPORTIONAL TO STIFFN 0.005

DYNAMIC ANALYSIS NONLINEAR BETA 0.250000

Example 4: Simple Steel Rack



STRUDL ' '

\$\$

\$\$ This GTSTRUDL file created from GTMenu on 1/23/2019

\$\$

UNITS INCH KIPS DEG FAH

JOINT COORDINATES GLOBAL

1	0.0000000E+00	0.0000000E+00	0.0000000E+00
2	0.0000000E+00	1.2000000E+02	0.0000000E+00
3	0.0000000E+00	1.2000000E+02	7.2000000E+01
4	0.0000000E+00	1.2000000E+02	-7.2000000E+01
5	1.4400000E+02	0.0000000E+00	0.0000000E+00
6	1.4400000E+02	1.2000000E+02	0.0000000E+00
7	1.4400000E+02	1.2000000E+02	7.2000000E+01
8	1.4400000E+02	1.2000000E+02	-7.2000000E+01

9	2.8800000E+02	0.0000000E+00	0.0000000E+00
10	2.8800000E+02	1.2000000E+02	0.0000000E+00
11	2.8800000E+02	1.2000000E+02	7.2000000E+01
12	2.8800000E+02	1.2000000E+02	-7.2000000E+01
13	4.3200000E+02	0.0000000E+00	0.0000000E+00
14	4.3200000E+02	1.2000000E+02	0.0000000E+00
15	4.3200000E+02	1.2000000E+02	7.2000000E+01
16	4.3200000E+02	1.2000000E+02	-7.2000000E+01
17	5.7600000E+02	0.0000000E+00	0.0000000E+00
18	5.7600000E+02	1.2000000E+02	0.0000000E+00
19	5.7600000E+02	1.2000000E+02	7.2000000E+01
20	5.7600000E+02	1.2000000E+02	-7.2000000E+01
21	7.2000000E+02	0.0000000E+00	0.0000000E+00
22	7.2000000E+02	1.2000000E+02	0.0000000E+00
23	7.2000000E+02	1.2000000E+02	7.2000000E+01
24	7.2000000E+02	1.2000000E+02	-7.2000000E+01
25	8.6400000E+02	0.0000000E+00	0.0000000E+00
26	8.6400000E+02	1.2000000E+02	0.0000000E+00
27	8.6400000E+02	1.2000000E+02	7.2000000E+01
28	8.6400000E+02	1.2000000E+02	-7.2000000E+01
29	1.0080000E+03	0.0000000E+00	0.0000000E+00
30	1.0080000E+03	1.2000000E+02	0.0000000E+00
31	1.0080000E+03	1.2000000E+02	7.2000000E+01
32	1.0080000E+03	1.2000000E+02	-7.2000000E+01
33	0.0000000E+00	0.0000000E+00	-7.2000000E+01
35	1.0080000E+03	0.0000000E+00	-7.2000000E+01

TYPE SPACE FRAME

MEMBER INCIDENCES

1

1

2

2	3	2
3	2	4
4	5	6
5	7	6
6	6	8
8	2	6
9	3	7
10	4	8
11	9	10
12	11	10
13	10	12
15	6	10
16	7	11
17	8	12
18	13	14
19	15	14
20	14	16
22	10	14
23	11	15
24	12	16
25	17	18
26	19	18
27	18	20
29	14	18
30	15	19
31	16	20
32	21	22
33	23	22
34	22	24
36	18	22

37	19	23
38	20	24
39	25	26
40	27	26
41	26	28
43	22	26
44	23	27
45	24	28
46	29	30
47	31	30
48	30	32
50	26	30
51	27	31
52	28	32
53	33	4
54	35	32

UNITS INCH KIPS DEG FAH

MEMBER	PROPERTIES	TABLE	'W-AISC14'	'W12x58		'
2	3	5	6	8	-	
9	10	12	13	15	-	
16	17	19	20	22	-	
23	24	26	27	29	-	
30	31	33	34	36	-	
37	38	40	41	43	-	
44	45	47	48	50	-	
51	52					

MEMBER	PROPERTIES	TABLE	'ReCHSS14'	'HSS8x6x5/8		'
1	4	11	18	25	-	
32	39	46	53	54		

STATUS SUPPORT -

1	5	9	13	17	-
21	25	29	33	35	

UNITS INCH KIPS DEG FAH

CONSTANTS

BETA	9.0000038E+01	-			
1	4	11	18	25	-
32	39	46	53	54	

UNITS INCH KIPS DEG FAH

CONSTANTS

E	2.9200002E+04	ALL
G	1.1000001E+04	ALL
POI	3.0000001E-01	ALL
DEN	2.8330003E-04	ALL
CTE	6.4999999E-06	ALL

DEFINE PHYSICAL MEMBER 'PM1' MEMBERS -
1

DEFINE PHYSICAL MEMBER 'PM2' MEMBERS -
2 3

DEFINE PHYSICAL MEMBER 'PM3' MEMBERS -
4

DEFINE PHYSICAL MEMBER 'PM4' MEMBERS -
11

DEFINE PHYSICAL MEMBER 'PM5' MEMBERS -
18

DEFINE PHYSICAL MEMBER 'PM6' MEMBERS -
25

DEFINE PHYSICAL MEMBER 'PM7' MEMBERS -
32

DEFINE PHYSICAL MEMBER 'PM8' MEMBERS -
39

DEFINE PHYSICAL MEMBER 'PM9' MEMBERS -
46

DEFINE PHYSICAL MEMBER 'PM11' MEMBERS -
5 6

DEFINE PHYSICAL MEMBER 'PM12' MEMBERS -
12 13

DEFINE PHYSICAL MEMBER 'PM13' MEMBERS -
19 20

DEFINE PHYSICAL MEMBER 'PM14' MEMBERS -
26 27

DEFINE PHYSICAL MEMBER 'PM15' MEMBERS -
33 34

DEFINE PHYSICAL MEMBER 'PM16' MEMBERS -
40 41

DEFINE PHYSICAL MEMBER 'PM17' MEMBERS -
47 48

DEFINE PHYSICAL MEMBER 'PM20' MEMBERS -
10

DEFINE PHYSICAL MEMBER 'PM21' MEMBERS -
17

DEFINE PHYSICAL MEMBER 'PM22' MEMBERS -
24

DEFINE PHYSICAL MEMBER 'PM23' MEMBERS -
31

DEFINE PHYSICAL MEMBER 'PM24' MEMBERS -
38

DEFINE PHYSICAL MEMBER 'PM25' MEMBERS -
45

DEFINE PHYSICAL MEMBER 'PM26' MEMBERS -
52

DEFINE PHYSICAL MEMBER 'PM27' MEMBERS -
8

DEFINE PHYSICAL MEMBER 'PM28' MEMBERS -
15

DEFINE PHYSICAL MEMBER 'PM29' MEMBERS -
22

DEFINE PHYSICAL MEMBER 'PM30' MEMBERS -
29

DEFINE PHYSICAL MEMBER 'PM31' MEMBERS -
36

DEFINE PHYSICAL MEMBER 'PM32' MEMBERS -
43

DEFINE PHYSICAL MEMBER 'PM33' MEMBERS -
50

DEFINE PHYSICAL MEMBER 'PM34' MEMBERS -
9

DEFINE PHYSICAL MEMBER 'PM35' MEMBERS -
16

DEFINE PHYSICAL MEMBER 'PM36' MEMBERS -
23

DEFINE PHYSICAL MEMBER 'PM37' MEMBERS -
30

CONSTANTS

\$29000 X 0.8 = 23200

E 23200 ALL

POISSON 0.30 ALL

G 11000 ALL

DENSITY 0.0002833 ALL

CTE 6.5e-006 ALL

UNITS FEET KIPS DEG FAH

SELF WEIGHT 1 'Selfweight' -

DIRECTION -Y FACTOR 1.100 INCLUDE FINITE ELEMENTS ALL MEMBERS

\$* **

\$* **

UNITS FEET KIP DEG SEC

WIND LOAD 'WIND-Z'

STANDARD ASCE7-10

ELEVATION AXIS Y

DIRECTION ANGLE 90.00000

SPEED MPH 150.00000

EXPOSURE CATAGORY C

TOPOGRAPHIC FACTOR KZT 1.000000

DIRECTIONALITY FACTOR KD 1.000000

MINIMUM VELOCITY PRESSURE QZMIN 1.6000001E-02

GUST FACTOR G 0.8500000

GROSS AREA AG 840

ADDED FORCE AREA AFADD 0.1

MEMBER EXISTING -

'1' '2' '3' '4' '5' '6' '8'
'9' -

```

TYPE INDUSTRIAL FRAME -
FORCE AREA PROPERTIES CDG 1.0000 THICE 1.0000 THINS
1.0000 -
KZ 1.000 CF 1.000 FLD 1.000 QZ 0.00

```

```

END OF WIND LOAD DATA
AREA LOAD 'WIND UP'  DIRECTION Y  PLANE TOLERANCE 0.167000
      ELEVATION 10.000000 VALUE -0.05728  TWO WAY
END AREA LOAD

```

```
FORM LOAD 101          '1.2D + 1.0W'  -
FROM 1          1.200  'WIND-Z'      1.000  'WIND UP'      1.000
```

```
FORM LOAD 102          '0.9D + 1.0W'  -
FROM 1          0.900  'WIND-Z'      1.000  'WIND UP'      1.000
```

[illegible]

```

$$$$                                RUN A NON-LINEAR ANALYSIS WHICH
CONSIDERS                          $$$$

```

SMALL AND BIG P-DELTA ANALYSIS.

```

$$$$                                OR YOU COULD RUN A SIMPLE STATIC
ANALYSIS BY ACTIVATING$$$$

```

```

$$$$                                STIFFNESS  ANALYSIS  COMMAND  WHICH
IS DEACTIVATED BELOW.$$$$

```


SELECT MEMBER EXISTING GROUP 'Columns' AS BEAM PLUS MAXIMUM ALL PRINT
ALL SECTION

TAKE MEMBERS GROUP 'Columns' AS LARGEST 'SZ' OF MEMBERS GROUP
'Columns'

STEEL TAKEOFF

UNITS FEET POUNDS DEG FAH

PRINT WIND LOADS

PARAMETERS

CODE AISC14 ALL MEMBERS

STEELGRD A992 ALL MEMBERS

CODETOL 1.0 ALL MEMBERS

CHECK ALL MEMBERS AS BEAM 6 PLUS MAXIMUM ALL PRINT ALL SECTION
LOCATIONS

CINPUT

\$

#####

\$ -----

\$ DEFINE NONLINEAR BASE ISOLATION ELEMENTS

\$ -----

JOINT RELEASES

1 FORCE X Y Z

5 FORCE X Y Z

9 FORCE X Y Z

13 FORCE X Y Z

17 FORCE X Y Z

21 FORCE X Y Z

25 FORCE X Y Z

29 FORCE X Y Z

33 FORCE X Y Z

35 FORCE X Y Z

UNITS KN M

\$ RD = RADIUS OF BEARING SURFACE (= 0.0 IS A FLAT SURFACE)

\$ UY = A VALUE PROVIDED BY THE MANUFACTURER OF THE FRICTION BEARING
DEVICE

\$ AND IS A VIRTUAL CHANGE IN LENGTH OF A VIRTUAL SPRING IN THE
SLIDING DIRECTION

\$ WHICH IS THE SAME DIRECTION AS THE VELOCITY OF THE SLIDING
SUPPORT JOINT

\$ ON THE FRICTION BEARING SURFACE, AFTER WHICH SLIDING OCCURS

\$ THE STIFFNESS OF THIS VIRTUAL SLIDING RESISTING SPRING

\$ = BREAKAWAY FORCE / UY = (NORMAL FORCE IN THE VIRTUAL NORMAL
SPRING x FC) / UY

\$ FC = FRICTION COEFFICIENT (FC USED FOR CONSTANT FRICTION SURFACE
RATHER THAN VARIABLE FRICTION SURFACE)

\$ KAX = A VALUE PROVIDED BY THE MANUFACTURER OF THE FRICTION BEARING
DEVICE

\$ AND IS REPRESENTED BY A STIFFNESS OF A VIRTUAL SPRING
PERPENDICULAR TO THE PLANE OF SLIDING

\$ AND IS A FUNCTION OF THE BEARING SURFACE CHARACTERISTICS.

\$ THS IS USED TO COMPUTE THE FORCE NORMAL TO THE SLIDING
FRICTION SURFACE.

\$ THE DEFAULT VALUE = 1.0E6 KN/M

BASE ISOLATION ELEMENT DATA

'BI-1' ATTACHED TO 1 -

TYPE FRICTION BEARING PLANE XZ RD 1.25 UY 1.25E-3 KAX 1.0E6
FRICTION CONSTANT FC 0.05

'BI-2' ATTACHED TO 5 -

TYPE FRICTION BEARING PLANE XZ RD 1.25 UY 1.25E-3 KAX 1.0E6
FRICTION CONSTANT FC 0.05

'BI-3' ATTACHED TO 9 -

TYPE FRICTION BEARING PLANE XZ RD 1.25 UY 1.25E-3 KAX 1.0E6
FRICTION CONSTANT FC 0.05

'BI-4' ATTACHED TO 13 -

TYPE FRICTION BEARING PLANE XZ RD 1.25 UY 1.25E-3 KAX 1.0E6
FRICTION CONSTANT FC 0.05

'BI-5' ATTACHED TO 17 -

TYPE FRICTION BEARING PLANE XZ RD 1.25 UY 1.25E-3 KAX 1.0E6
FRICTION CONSTANT FC 0.05

'BI-6' ATTACHED TO 21 -

TYPE FRICTION BEARING PLANE XZ RD 1.25 UY 1.25E-3 KAX 1.0E6
FRICTION CONSTANT FC 0.05

'BI-7' ATTACHED TO 25 -

TYPE FRICTION BEARING PLANE XZ RD 1.25 UY 1.25E-3 KAX 1.0E6
FRICTION CONSTANT FC 0.05

'BI-8' ATTACHED TO 29 -

TYPE FRICTION BEARING PLANE XZ RD 1.25 UY 1.25E-3 KAX 1.0E6
FRICTION CONSTANT FC 0.05

'BI-9' ATTACHED TO 33 -

TYPE FRICTION BEARING PLANE XZ RD 1.25 UY 1.25E-3 KAX 1.0E6
FRICTION CONSTANT FC 0.05

'BI-10' ATTACHED TO 35 -

TYPE FRICTION BEARING PLANE XZ RD 1.25 UY 1.25E-3 KAX 1.0E6
FRICTION CONSTANT FC 0.05

END

\$

#####

\$ ---NONLINEAR STATIC ANALYSIS NEXT-----

ACTIVE SOLVER GTSES

QUERY

CONVERGENCE TOLERANCE EQUIL 0.001

MAXIMUM NUMBER OF CYCLES 100

LOAD LIST 101

NONLINEAR ANALYSIS

\$ SAVE '1A-3-Story_Ecc-StaticAnal.gts'

UNITS CM KN

LIST DISPLACEMENTS JOINTS 16 20

UNITS M

LIST FORCES MEMBERS 18 25

LIST SUM REACTIONS

CHECK ALL MEMBERS AS BEAM 6 PLUS MAXIMUM ALL PRINT ALL SECTION
LOCATIONS

CINPUT

\$ -----

\$ ---NONLINEAR DYNAMIC ANALYSIS NEXT-----

\$ -----

TRANSIENT LOAD 'EQ-XYZ'

SUPPORT ACCELERATION

TRANSL X FILE 'ELCENTRO' FACTOR 0.707

TRANSL Z FILE 'ELCENTRO' FACTOR 0.707

```

TRANSL Y FILE 'ELCENTRO' FACTOR 0.35

INTEGRATE FROM 0.0 TO 20.0 AT 0.01

END TRANSIENT LOAD


INERTIA OF JOINTS LUMPED                $ MASS OF ALL MEMBERS AND FINITE
ELEMENTS

INERTIA OF JOINTS FROM LOAD 1 ALL DOF $ MASS FROM STATIC LOAD 1


$ *****

$ ***** DYNAMIC PARAMETERS

$ *****


DYNAMIC PARAMETERS

    MAXIMUM NUMBER OF EQUILIBRIUM CYCLES 1000

    CONVERGENCE TOLERANCE 0.001

    PRINT MAX

    STORE VELOCITIES      OFF

    STORE ACCELERATIONS OFF

    INITIAL STRESS LOAD 100

END DYNAMIC PARAMETERS

$ *****


DAMPING PROPORTIONAL TO STIFFNESS 0.001 MASS 1.35


$ $$*****

$ ***** DYNAMIC ANALYSIS NONLINEAR

$ *****


LOAD LIST 'EQ-XYZ'

```

\$

=====

QUERY

DYNAMIC ANALYSIS NONLINEAR

\$

=====

COMPUTE TRANSIENT FORCE

COMPUTE TRANSIENT STRESS

COMPUTE TRANSIENT REACTION

COMPUTE TRANSIENT LOAD

\$ -----

UNIT MM RAD

LIST TRANSIENT MAXIMUM DISPLACEMENTS JOINTS 16 20

\$ -----

UNIT M KN RAD

\$ Max Force

LIST TRANSIENT MAXIMUM FORCES MEMBERS 18 25

LIST TRANSIENT DISPL TIME 209 JOINT 61

LIST TRANSIENT REACT TIME 209

LIST TRANSIENT FORCES TIME 209 MEMBER 'XB-1'

CREATE PSEUDO STATIC LOAD 'T209' FROM TIME 209 OF LOAD 'EQ-XYZ'

CREATE PSEUDO STATIC LOAD 'TMAX' FROM MAX OF LOAD 'EQ-XYZ'

LIST DISPL JOINT 18

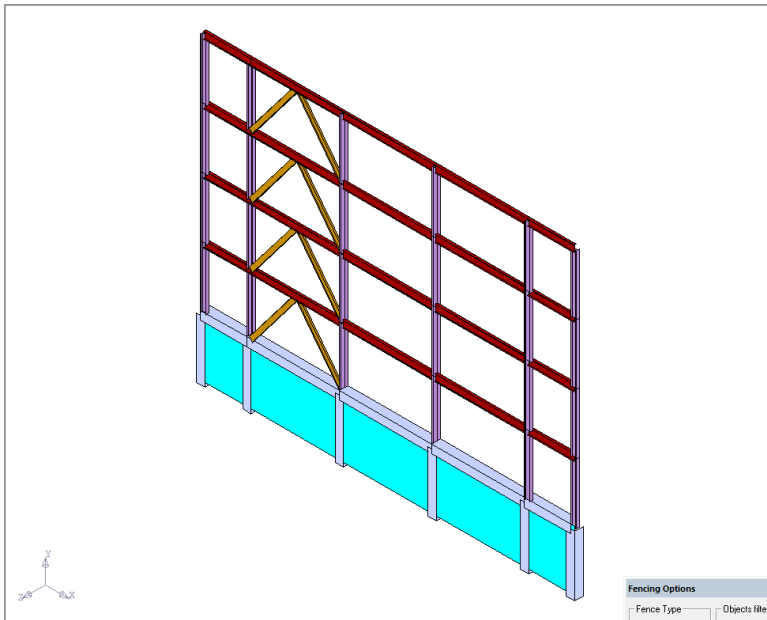
LIST REACTIONS

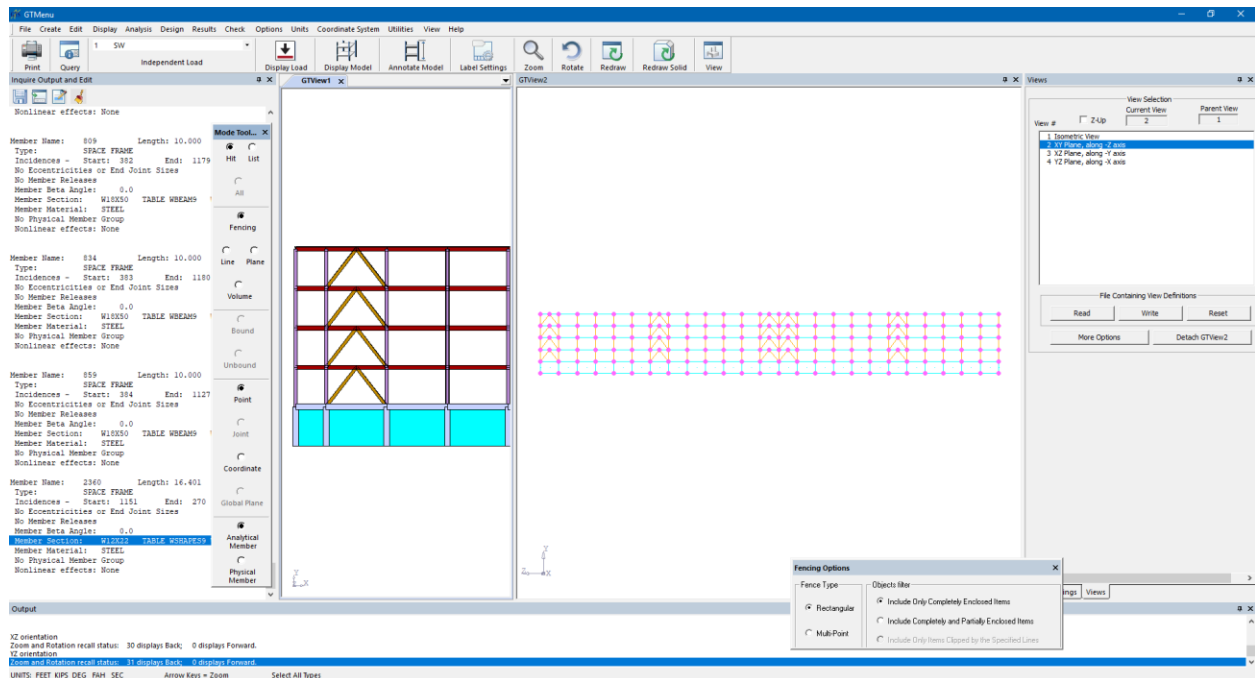
LIST FORCES MEMBER 18

LOAD LIST 'T209' 'TMAX'

\$CHECK ALL MEMBERS AS BEAM 6 PLUS MAXIMUM ALL PRINT ALL SECTION
LOCATIONS

Example 5: Foothill Center, San Bernardino, San Bernardino County, California





STRU DL ' '

\$\$

\$\$ This GTSTRU DL file created from GTMenu on 3/27/2020

\$\$

UNITS FEET KIPS DEG FAH

JOINT COORDINATES GLOBAL

1	1.0000000E+01	0.0000000E+00	0.0000000E+00
2	2.0000000E+01	0.0000000E+00	0.0000000E+00
3	4.0000000E+01	0.0000000E+00	0.0000000E+00
4	6.0000000E+01	0.0000000E+00	0.0000000E+00
5	8.0000000E+01	0.0000000E+00	0.0000000E+00
6	9.0000000E+01	0.0000000E+00	0.0000000E+00
7	1.0000000E+01	0.0000000E+00	2.0000000E+01
8	2.0000000E+01	0.0000000E+00	2.0000000E+01
9	4.0000000E+01	0.0000000E+00	2.0000000E+01
10	6.0000000E+01	0.0000000E+00	2.0000000E+01

11	8.0000000E+01	0.0000000E+00	2.0000000E+01
12	9.0000000E+01	0.0000000E+00	2.0000000E+01
13	1.0000000E+01	0.0000000E+00	4.0000000E+01
14	2.0000000E+01	0.0000000E+00	4.0000000E+01
15	4.0000000E+01	0.0000000E+00	4.0000000E+01
16	6.0000000E+01	0.0000000E+00	4.0000000E+01
17	8.0000000E+01	0.0000000E+00	4.0000000E+01
18	9.0000000E+01	0.0000000E+00	4.0000000E+01
19	1.0000000E+01	0.0000000E+00	6.0000000E+01
20	2.0000000E+01	0.0000000E+00	6.0000000E+01
21	4.0000000E+01	0.0000000E+00	6.0000000E+01
22	6.0000000E+01	0.0000000E+00	6.0000000E+01
23	8.0000000E+01	0.0000000E+00	6.0000000E+01
24	9.0000000E+01	0.0000000E+00	6.0000000E+01
25	1.0000000E+01	0.0000000E+00	8.0000000E+01
26	2.0000000E+01	0.0000000E+00	8.0000000E+01
27	4.0000000E+01	0.0000000E+00	8.0000000E+01
28	6.0000000E+01	0.0000000E+00	8.0000000E+01
29	8.0000000E+01	0.0000000E+00	8.0000000E+01
30	9.0000000E+01	0.0000000E+00	8.0000000E+01
31	1.0000000E+01	0.0000000E+00	1.0000000E+02
32	2.0000000E+01	0.0000000E+00	1.0000000E+02
33	4.0000000E+01	0.0000000E+00	1.0000000E+02
34	6.0000000E+01	0.0000000E+00	1.0000000E+02
35	8.0000000E+01	0.0000000E+00	1.0000000E+02
36	9.0000000E+01	0.0000000E+00	1.0000000E+02
37	1.0000000E+01	0.0000000E+00	1.2000000E+02
38	2.0000000E+01	0.0000000E+00	1.2000000E+02
39	4.0000000E+01	0.0000000E+00	1.2000000E+02
40	6.0000000E+01	0.0000000E+00	1.2000000E+02

41	8.0000000E+01	0.0000000E+00	1.2000000E+02
42	9.0000000E+01	0.0000000E+00	1.2000000E+02
43	1.0000000E+01	0.0000000E+00	1.4000000E+02
44	2.0000000E+01	0.0000000E+00	1.4000000E+02
45	4.0000000E+01	0.0000000E+00	1.4000000E+02
46	6.0000000E+01	0.0000000E+00	1.4000000E+02
47	8.0000000E+01	0.0000000E+00	1.4000000E+02
48	9.0000000E+01	0.0000000E+00	1.4000000E+02
49	1.0000000E+01	0.0000000E+00	1.6000000E+02
50	2.0000000E+01	0.0000000E+00	1.6000000E+02
51	4.0000000E+01	0.0000000E+00	1.6000000E+02
52	6.0000000E+01	0.0000000E+00	1.6000000E+02
53	8.0000000E+01	0.0000000E+00	1.6000000E+02
54	9.0000000E+01	0.0000000E+00	1.6000000E+02
55	1.0000000E+01	0.0000000E+00	1.8000000E+02
56	2.0000000E+01	0.0000000E+00	1.8000000E+02
57	4.0000000E+01	0.0000000E+00	1.8000000E+02
58	6.0000000E+01	0.0000000E+00	1.8000000E+02
59	8.0000000E+01	0.0000000E+00	1.8000000E+02
60	9.0000000E+01	0.0000000E+00	1.8000000E+02
61	1.0000000E+01	0.0000000E+00	2.0000000E+02
62	2.0000000E+01	0.0000000E+00	2.0000000E+02
63	4.0000000E+01	0.0000000E+00	2.0000000E+02
64	6.0000000E+01	0.0000000E+00	2.0000000E+02
65	8.0000000E+01	0.0000000E+00	2.0000000E+02
66	9.0000000E+01	0.0000000E+00	2.0000000E+02
67	1.0000000E+01	0.0000000E+00	2.2000000E+02
68	2.0000000E+01	0.0000000E+00	2.2000000E+02
69	4.0000000E+01	0.0000000E+00	2.2000000E+02
70	6.0000000E+01	0.0000000E+00	2.2000000E+02

71	8.0000000E+01	0.0000000E+00	2.2000000E+02
72	9.0000000E+01	0.0000000E+00	2.2000000E+02
73	1.0000000E+01	0.0000000E+00	2.4000000E+02
74	2.0000000E+01	0.0000000E+00	2.4000000E+02
75	4.0000000E+01	0.0000000E+00	2.4000000E+02
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92	2.0000000E+01	0.0000000E+00	3.0000000E+02
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97	1.0000000E+01	0.0000000E+00	3.2000000E+02
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100	6.0000000E+01	0.0000000E+00	3.2000000E+02

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102	9.0000000E+01	0.0000000E+00	3.2000000E+02
103	1.0000000E+01	0.0000000E+00	3.4000000E+02
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123	4.0000000E+01	0.0000000E+00	4.0000000E+02
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128	2.0000000E+01	0.0000000E+00	4.2000000E+02
129	4.0000000E+01	0.0000000E+00	4.2000000E+02
130	6.0000000E+01	0.0000000E+00	4.2000000E+02

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156	9.0000000E+01	0.0000000E+00	5.0000000E+02
157	1.0000000E+01	1.3000000E+01	0.0000000E+00
158	2.0000000E+01	1.3000000E+01	0.0000000E+00
159	4.0000000E+01	1.3000000E+01	0.0000000E+00
160	6.0000000E+01	1.3000000E+01	0.0000000E+00

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164	2.0000000E+01	1.3000000E+01	2.0000000E+01
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166	6.0000000E+01	1.3000000E+01	2.0000000E+01
167	8.0000000E+01	1.3000000E+01	2.0000000E+01
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196	6.0000000E+01	1.3000000E+01	1.2000000E+02
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208	6.0000000E+01	1.3000000E+01	1.6000000E+02
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238	6.0000000E+01	1.3000000E+01	2.6000000E+02
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249	4.0000000E+01	1.3000000E+01	3.0000000E+02
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260	2.0000000E+01	1.3000000E+01	3.4000000E+02
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280	6.0000000E+01	1.3000000E+01	4.0000000E+02

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286	6.0000000E+01	1.3000000E+01	4.2000000E+02
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317	8.0000000E+01	2.6000000E+01	0.0000000E+00
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319	1.0000000E+01	2.6000000E+01	2.0000000E+01
320	2.0000000E+01	2.6000000E+01	2.0000000E+01
321	4.0000000E+01	2.6000000E+01	2.0000000E+01
322	6.0000000E+01	2.6000000E+01	2.0000000E+01
323	8.0000000E+01	2.6000000E+01	2.0000000E+01
324	9.0000000E+01	2.6000000E+01	2.0000000E+01
325	1.0000000E+01	2.6000000E+01	4.0000000E+01
326	2.0000000E+01	2.6000000E+01	4.0000000E+01
327	4.0000000E+01	2.6000000E+01	4.0000000E+01
328	6.0000000E+01	2.6000000E+01	4.0000000E+01
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333	4.0000000E+01	2.6000000E+01	6.0000000E+01
334	6.0000000E+01	2.6000000E+01	6.0000000E+01
335	8.0000000E+01	2.6000000E+01	6.0000000E+01
336	9.0000000E+01	2.6000000E+01	6.0000000E+01
337	1.0000000E+01	2.6000000E+01	8.0000000E+01
338	2.0000000E+01	2.6000000E+01	8.0000000E+01
339	4.0000000E+01	2.6000000E+01	8.0000000E+01
340	6.0000000E+01	2.6000000E+01	8.0000000E+01

341	8.0000000E+01	2.6000000E+01	8.0000000E+01
342	9.0000000E+01	2.6000000E+01	8.0000000E+01
343	1.0000000E+01	2.6000000E+01	1.0000000E+02
344	2.0000000E+01	2.6000000E+01	1.0000000E+02
345	4.0000000E+01	2.6000000E+01	1.0000000E+02
346	6.0000000E+01	2.6000000E+01	1.0000000E+02
347	8.0000000E+01	2.6000000E+01	1.0000000E+02
348	9.0000000E+01	2.6000000E+01	1.0000000E+02
349	1.0000000E+01	2.6000000E+01	1.2000000E+02
350	2.0000000E+01	2.6000000E+01	1.2000000E+02
351	4.0000000E+01	2.6000000E+01	1.2000000E+02
352	6.0000000E+01	2.6000000E+01	1.2000000E+02
353	8.0000000E+01	2.6000000E+01	1.2000000E+02
354	9.0000000E+01	2.6000000E+01	1.2000000E+02
355	1.0000000E+01	2.6000000E+01	1.4000000E+02
356	2.0000000E+01	2.6000000E+01	1.4000000E+02
357	4.0000000E+01	2.6000000E+01	1.4000000E+02
358	6.0000000E+01	2.6000000E+01	1.4000000E+02
359	8.0000000E+01	2.6000000E+01	1.4000000E+02
360	9.0000000E+01	2.6000000E+01	1.4000000E+02
361	1.0000000E+01	2.6000000E+01	1.6000000E+02
362	2.0000000E+01	2.6000000E+01	1.6000000E+02
363	4.0000000E+01	2.6000000E+01	1.6000000E+02
364	6.0000000E+01	2.6000000E+01	1.6000000E+02
365	8.0000000E+01	2.6000000E+01	1.6000000E+02
366	9.0000000E+01	2.6000000E+01	1.6000000E+02
367	1.0000000E+01	2.6000000E+01	1.8000000E+02
368	2.0000000E+01	2.6000000E+01	1.8000000E+02
369	4.0000000E+01	2.6000000E+01	1.8000000E+02
370	6.0000000E+01	2.6000000E+01	1.8000000E+02

371	8.0000000E+01	2.6000000E+01	1.8000000E+02
372	9.0000000E+01	2.6000000E+01	1.8000000E+02
373	1.0000000E+01	2.6000000E+01	2.0000000E+02
374	2.0000000E+01	2.6000000E+01	2.0000000E+02
375	4.0000000E+01	2.6000000E+01	2.0000000E+02
376	6.0000000E+01	2.6000000E+01	2.0000000E+02
377	8.0000000E+01	2.6000000E+01	2.0000000E+02
378	9.0000000E+01	2.6000000E+01	2.0000000E+02
379	1.0000000E+01	2.6000000E+01	2.2000000E+02
380	2.0000000E+01	2.6000000E+01	2.2000000E+02
381	4.0000000E+01	2.6000000E+01	2.2000000E+02
382	6.0000000E+01	2.6000000E+01	2.2000000E+02
383	8.0000000E+01	2.6000000E+01	2.2000000E+02
384	9.0000000E+01	2.6000000E+01	2.2000000E+02
385	1.0000000E+01	2.6000000E+01	2.4000000E+02
386	2.0000000E+01	2.6000000E+01	2.4000000E+02
387	4.0000000E+01	2.6000000E+01	2.4000000E+02
388	6.0000000E+01	2.6000000E+01	2.4000000E+02
389	8.0000000E+01	2.6000000E+01	2.4000000E+02
390	9.0000000E+01	2.6000000E+01	2.4000000E+02
391	1.0000000E+01	2.6000000E+01	2.6000000E+02
392	2.0000000E+01	2.6000000E+01	2.6000000E+02
393	4.0000000E+01	2.6000000E+01	2.6000000E+02
394	6.0000000E+01	2.6000000E+01	2.6000000E+02
395	8.0000000E+01	2.6000000E+01	2.6000000E+02
396	9.0000000E+01	2.6000000E+01	2.6000000E+02
397	1.0000000E+01	2.6000000E+01	2.8000000E+02
398	2.0000000E+01	2.6000000E+01	2.8000000E+02
399	4.0000000E+01	2.6000000E+01	2.8000000E+02
400	6.0000000E+01	2.6000000E+01	2.8000000E+02

401	8.0000000E+01	2.6000000E+01	2.8000000E+02
402	9.0000000E+01	2.6000000E+01	2.8000000E+02
403	1.0000000E+01	2.6000000E+01	3.0000000E+02
404	2.0000000E+01	2.6000000E+01	3.0000000E+02
405	4.0000000E+01	2.6000000E+01	3.0000000E+02
406	6.0000000E+01	2.6000000E+01	3.0000000E+02
407	8.0000000E+01	2.6000000E+01	3.0000000E+02
408	9.0000000E+01	2.6000000E+01	3.0000000E+02
409	1.0000000E+01	2.6000000E+01	3.2000000E+02
410	2.0000000E+01	2.6000000E+01	3.2000000E+02
411	4.0000000E+01	2.6000000E+01	3.2000000E+02
412	6.0000000E+01	2.6000000E+01	3.2000000E+02
413	8.0000000E+01	2.6000000E+01	3.2000000E+02
414	9.0000000E+01	2.6000000E+01	3.2000000E+02
415	1.0000000E+01	2.6000000E+01	3.4000000E+02
416	2.0000000E+01	2.6000000E+01	3.4000000E+02
417	4.0000000E+01	2.6000000E+01	3.4000000E+02
418	6.0000000E+01	2.6000000E+01	3.4000000E+02
419	8.0000000E+01	2.6000000E+01	3.4000000E+02
420	9.0000000E+01	2.6000000E+01	3.4000000E+02
421	1.0000000E+01	2.6000000E+01	3.6000000E+02
422	2.0000000E+01	2.6000000E+01	3.6000000E+02
423	4.0000000E+01	2.6000000E+01	3.6000000E+02
424	6.0000000E+01	2.6000000E+01	3.6000000E+02
425	8.0000000E+01	2.6000000E+01	3.6000000E+02
426	9.0000000E+01	2.6000000E+01	3.6000000E+02
427	1.0000000E+01	2.6000000E+01	3.8000000E+02
428	2.0000000E+01	2.6000000E+01	3.8000000E+02
429	4.0000000E+01	2.6000000E+01	3.8000000E+02
430	6.0000000E+01	2.6000000E+01	3.8000000E+02

431	8.0000000E+01	2.6000000E+01	3.8000000E+02
432	9.0000000E+01	2.6000000E+01	3.8000000E+02
433	1.0000000E+01	2.6000000E+01	4.0000000E+02
434	2.0000000E+01	2.6000000E+01	4.0000000E+02
435	4.0000000E+01	2.6000000E+01	4.0000000E+02
436	6.0000000E+01	2.6000000E+01	4.0000000E+02
437	8.0000000E+01	2.6000000E+01	4.0000000E+02
438	9.0000000E+01	2.6000000E+01	4.0000000E+02
439	1.0000000E+01	2.6000000E+01	4.2000000E+02
440	2.0000000E+01	2.6000000E+01	4.2000000E+02
441	4.0000000E+01	2.6000000E+01	4.2000000E+02
442	6.0000000E+01	2.6000000E+01	4.2000000E+02
443	8.0000000E+01	2.6000000E+01	4.2000000E+02
444	9.0000000E+01	2.6000000E+01	4.2000000E+02
445	1.0000000E+01	2.6000000E+01	4.4000000E+02
446	2.0000000E+01	2.6000000E+01	4.4000000E+02
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449	8.0000000E+01	2.6000000E+01	4.4000000E+02
450	9.0000000E+01	2.6000000E+01	4.4000000E+02
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452	2.0000000E+01	2.6000000E+01	4.6000000E+02
453	4.0000000E+01	2.6000000E+01	4.6000000E+02
454	6.0000000E+01	2.6000000E+01	4.6000000E+02
455	8.0000000E+01	2.6000000E+01	4.6000000E+02
456	9.0000000E+01	2.6000000E+01	4.6000000E+02
457	1.0000000E+01	2.6000000E+01	4.8000000E+02
458	2.0000000E+01	2.6000000E+01	4.8000000E+02
459	4.0000000E+01	2.6000000E+01	4.8000000E+02
460	6.0000000E+01	2.6000000E+01	4.8000000E+02

461	8.0000000E+01	2.6000000E+01	4.8000000E+02
462	9.0000000E+01	2.6000000E+01	4.8000000E+02
463	1.0000000E+01	2.6000000E+01	5.0000000E+02
464	2.0000000E+01	2.6000000E+01	5.0000000E+02
465	4.0000000E+01	2.6000000E+01	5.0000000E+02
466	6.0000000E+01	2.6000000E+01	5.0000000E+02
467	8.0000000E+01	2.6000000E+01	5.0000000E+02
468	9.0000000E+01	2.6000000E+01	5.0000000E+02
469	1.0000000E+01	3.9000000E+01	0.0000000E+00
470	2.0000000E+01	3.9000000E+01	0.0000000E+00
471	4.0000000E+01	3.9000000E+01	0.0000000E+00
472	6.0000000E+01	3.9000000E+01	0.0000000E+00
473	8.0000000E+01	3.9000000E+01	0.0000000E+00
474	9.0000000E+01	3.9000000E+01	0.0000000E+00
475	1.0000000E+01	3.9000000E+01	2.0000000E+01
476	2.0000000E+01	3.9000000E+01	2.0000000E+01
477	4.0000000E+01	3.9000000E+01	2.0000000E+01
478	6.0000000E+01	3.9000000E+01	2.0000000E+01
479	8.0000000E+01	3.9000000E+01	2.0000000E+01
480	9.0000000E+01	3.9000000E+01	2.0000000E+01
481	1.0000000E+01	3.9000000E+01	4.0000000E+01
482	2.0000000E+01	3.9000000E+01	4.0000000E+01
483	4.0000000E+01	3.9000000E+01	4.0000000E+01
484	6.0000000E+01	3.9000000E+01	4.0000000E+01
485	8.0000000E+01	3.9000000E+01	4.0000000E+01
486	9.0000000E+01	3.9000000E+01	4.0000000E+01
487	1.0000000E+01	3.9000000E+01	6.0000000E+01
488	2.0000000E+01	3.9000000E+01	6.0000000E+01
489	4.0000000E+01	3.9000000E+01	6.0000000E+01
490	6.0000000E+01	3.9000000E+01	6.0000000E+01

491	8.0000000E+01	3.9000000E+01	6.0000000E+01
492	9.0000000E+01	3.9000000E+01	6.0000000E+01
493	1.0000000E+01	3.9000000E+01	8.0000000E+01
494	2.0000000E+01	3.9000000E+01	8.0000000E+01
495	4.0000000E+01	3.9000000E+01	8.0000000E+01
496	6.0000000E+01	3.9000000E+01	8.0000000E+01
497	8.0000000E+01	3.9000000E+01	8.0000000E+01
498	9.0000000E+01	3.9000000E+01	8.0000000E+01
499	1.0000000E+01	3.9000000E+01	1.0000000E+02
500	2.0000000E+01	3.9000000E+01	1.0000000E+02
501	4.0000000E+01	3.9000000E+01	1.0000000E+02
502	6.0000000E+01	3.9000000E+01	1.0000000E+02
503	8.0000000E+01	3.9000000E+01	1.0000000E+02
504	9.0000000E+01	3.9000000E+01	1.0000000E+02
505	1.0000000E+01	3.9000000E+01	1.2000000E+02
506	2.0000000E+01	3.9000000E+01	1.2000000E+02
507	4.0000000E+01	3.9000000E+01	1.2000000E+02
508	6.0000000E+01	3.9000000E+01	1.2000000E+02
509	8.0000000E+01	3.9000000E+01	1.2000000E+02
510	9.0000000E+01	3.9000000E+01	1.2000000E+02
511	1.0000000E+01	3.9000000E+01	1.4000000E+02
512	2.0000000E+01	3.9000000E+01	1.4000000E+02
513	4.0000000E+01	3.9000000E+01	1.4000000E+02
514	6.0000000E+01	3.9000000E+01	1.4000000E+02
515	8.0000000E+01	3.9000000E+01	1.4000000E+02
516	9.0000000E+01	3.9000000E+01	1.4000000E+02
517	1.0000000E+01	3.9000000E+01	1.6000000E+02
518	2.0000000E+01	3.9000000E+01	1.6000000E+02
519	4.0000000E+01	3.9000000E+01	1.6000000E+02
520	6.0000000E+01	3.9000000E+01	1.6000000E+02

521	8.0000000E+01	3.9000000E+01	1.6000000E+02
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523	1.0000000E+01	3.9000000E+01	1.8000000E+02
524	2.0000000E+01	3.9000000E+01	1.8000000E+02
525	4.0000000E+01	3.9000000E+01	1.8000000E+02
526	6.0000000E+01	3.9000000E+01	1.8000000E+02
527	8.0000000E+01	3.9000000E+01	1.8000000E+02
528	9.0000000E+01	3.9000000E+01	1.8000000E+02
529	1.0000000E+01	3.9000000E+01	2.0000000E+02
530	2.0000000E+01	3.9000000E+01	2.0000000E+02
531	4.0000000E+01	3.9000000E+01	2.0000000E+02
532	6.0000000E+01	3.9000000E+01	2.0000000E+02
533	8.0000000E+01	3.9000000E+01	2.0000000E+02
534	9.0000000E+01	3.9000000E+01	2.0000000E+02
535	1.0000000E+01	3.9000000E+01	2.2000000E+02
536	2.0000000E+01	3.9000000E+01	2.2000000E+02
537	4.0000000E+01	3.9000000E+01	2.2000000E+02
538	6.0000000E+01	3.9000000E+01	2.2000000E+02
539	8.0000000E+01	3.9000000E+01	2.2000000E+02
540	9.0000000E+01	3.9000000E+01	2.2000000E+02
541	1.0000000E+01	3.9000000E+01	2.4000000E+02
542	2.0000000E+01	3.9000000E+01	2.4000000E+02
543	4.0000000E+01	3.9000000E+01	2.4000000E+02
544	6.0000000E+01	3.9000000E+01	2.4000000E+02
545	8.0000000E+01	3.9000000E+01	2.4000000E+02
546	9.0000000E+01	3.9000000E+01	2.4000000E+02
547	1.0000000E+01	3.9000000E+01	2.6000000E+02
548	2.0000000E+01	3.9000000E+01	2.6000000E+02
549	4.0000000E+01	3.9000000E+01	2.6000000E+02
550	6.0000000E+01	3.9000000E+01	2.6000000E+02

551	8.0000000E+01	3.9000000E+01	2.6000000E+02
552	9.0000000E+01	3.9000000E+01	2.6000000E+02
553	1.0000000E+01	3.9000000E+01	2.8000000E+02
554	2.0000000E+01	3.9000000E+01	2.8000000E+02
555	4.0000000E+01	3.9000000E+01	2.8000000E+02
556	6.0000000E+01	3.9000000E+01	2.8000000E+02
557	8.0000000E+01	3.9000000E+01	2.8000000E+02
558	9.0000000E+01	3.9000000E+01	2.8000000E+02
559	1.0000000E+01	3.9000000E+01	3.0000000E+02
560	2.0000000E+01	3.9000000E+01	3.0000000E+02
561	4.0000000E+01	3.9000000E+01	3.0000000E+02
562	6.0000000E+01	3.9000000E+01	3.0000000E+02
563	8.0000000E+01	3.9000000E+01	3.0000000E+02
564	9.0000000E+01	3.9000000E+01	3.0000000E+02
565	1.0000000E+01	3.9000000E+01	3.2000000E+02
566	2.0000000E+01	3.9000000E+01	3.2000000E+02
567	4.0000000E+01	3.9000000E+01	3.2000000E+02
568	6.0000000E+01	3.9000000E+01	3.2000000E+02
569	8.0000000E+01	3.9000000E+01	3.2000000E+02
570	9.0000000E+01	3.9000000E+01	3.2000000E+02
571	1.0000000E+01	3.9000000E+01	3.4000000E+02
572	2.0000000E+01	3.9000000E+01	3.4000000E+02
573	4.0000000E+01	3.9000000E+01	3.4000000E+02
574	6.0000000E+01	3.9000000E+01	3.4000000E+02
575	8.0000000E+01	3.9000000E+01	3.4000000E+02
576	9.0000000E+01	3.9000000E+01	3.4000000E+02
577	1.0000000E+01	3.9000000E+01	3.6000000E+02
578	2.0000000E+01	3.9000000E+01	3.6000000E+02
579	4.0000000E+01	3.9000000E+01	3.6000000E+02
580	6.0000000E+01	3.9000000E+01	3.6000000E+02

581	8.0000000E+01	3.9000000E+01	3.6000000E+02
582	9.0000000E+01	3.9000000E+01	3.6000000E+02
583	1.0000000E+01	3.9000000E+01	3.8000000E+02
584	2.0000000E+01	3.9000000E+01	3.8000000E+02
585	4.0000000E+01	3.9000000E+01	3.8000000E+02
586	6.0000000E+01	3.9000000E+01	3.8000000E+02
587	8.0000000E+01	3.9000000E+01	3.8000000E+02
588	9.0000000E+01	3.9000000E+01	3.8000000E+02
589	1.0000000E+01	3.9000000E+01	4.0000000E+02
590	2.0000000E+01	3.9000000E+01	4.0000000E+02
591	4.0000000E+01	3.9000000E+01	4.0000000E+02
592	6.0000000E+01	3.9000000E+01	4.0000000E+02
593	8.0000000E+01	3.9000000E+01	4.0000000E+02
594	9.0000000E+01	3.9000000E+01	4.0000000E+02
595	1.0000000E+01	3.9000000E+01	4.2000000E+02
596	2.0000000E+01	3.9000000E+01	4.2000000E+02
597	4.0000000E+01	3.9000000E+01	4.2000000E+02
598	6.0000000E+01	3.9000000E+01	4.2000000E+02
599	8.0000000E+01	3.9000000E+01	4.2000000E+02
600	9.0000000E+01	3.9000000E+01	4.2000000E+02
601	1.0000000E+01	3.9000000E+01	4.4000000E+02
602	2.0000000E+01	3.9000000E+01	4.4000000E+02
603	4.0000000E+01	3.9000000E+01	4.4000000E+02
604	6.0000000E+01	3.9000000E+01	4.4000000E+02
605	8.0000000E+01	3.9000000E+01	4.4000000E+02
606	9.0000000E+01	3.9000000E+01	4.4000000E+02
607	1.0000000E+01	3.9000000E+01	4.6000000E+02
608	2.0000000E+01	3.9000000E+01	4.6000000E+02
609	4.0000000E+01	3.9000000E+01	4.6000000E+02
610	6.0000000E+01	3.9000000E+01	4.6000000E+02

611	8.0000000E+01	3.9000000E+01	4.6000000E+02
612	9.0000000E+01	3.9000000E+01	4.6000000E+02
613	1.0000000E+01	3.9000000E+01	4.8000000E+02
614	2.0000000E+01	3.9000000E+01	4.8000000E+02
615	4.0000000E+01	3.9000000E+01	4.8000000E+02
616	6.0000000E+01	3.9000000E+01	4.8000000E+02
617	8.0000000E+01	3.9000000E+01	4.8000000E+02
618	9.0000000E+01	3.9000000E+01	4.8000000E+02
619	1.0000000E+01	3.9000000E+01	5.0000000E+02
620	2.0000000E+01	3.9000000E+01	5.0000000E+02
621	4.0000000E+01	3.9000000E+01	5.0000000E+02
622	6.0000000E+01	3.9000000E+01	5.0000000E+02
623	8.0000000E+01	3.9000000E+01	5.0000000E+02
624	9.0000000E+01	3.9000000E+01	5.0000000E+02
625	1.0000000E+01	5.2000000E+01	0.0000000E+00
626	2.0000000E+01	5.2000000E+01	0.0000000E+00
627	4.0000000E+01	5.2000000E+01	0.0000000E+00
628	6.0000000E+01	5.2000000E+01	0.0000000E+00
629	8.0000000E+01	5.2000000E+01	0.0000000E+00
630	9.0000000E+01	5.2000000E+01	0.0000000E+00
631	1.0000000E+01	5.2000000E+01	2.0000000E+01
632	2.0000000E+01	5.2000000E+01	2.0000000E+01
633	4.0000000E+01	5.2000000E+01	2.0000000E+01
634	6.0000000E+01	5.2000000E+01	2.0000000E+01
635	8.0000000E+01	5.2000000E+01	2.0000000E+01
636	9.0000000E+01	5.2000000E+01	2.0000000E+01
637	1.0000000E+01	5.2000000E+01	4.0000000E+01
638	2.0000000E+01	5.2000000E+01	4.0000000E+01
639	4.0000000E+01	5.2000000E+01	4.0000000E+01
640	6.0000000E+01	5.2000000E+01	4.0000000E+01

641	8.0000000E+01	5.2000000E+01	4.0000000E+01
642	9.0000000E+01	5.2000000E+01	4.0000000E+01
643	1.0000000E+01	5.2000000E+01	6.0000000E+01
644	2.0000000E+01	5.2000000E+01	6.0000000E+01
645	4.0000000E+01	5.2000000E+01	6.0000000E+01
646	6.0000000E+01	5.2000000E+01	6.0000000E+01
647	8.0000000E+01	5.2000000E+01	6.0000000E+01
648	9.0000000E+01	5.2000000E+01	6.0000000E+01
649	1.0000000E+01	5.2000000E+01	8.0000000E+01
650	2.0000000E+01	5.2000000E+01	8.0000000E+01
651	4.0000000E+01	5.2000000E+01	8.0000000E+01
652	6.0000000E+01	5.2000000E+01	8.0000000E+01
653	8.0000000E+01	5.2000000E+01	8.0000000E+01
654	9.0000000E+01	5.2000000E+01	8.0000000E+01
655	1.0000000E+01	5.2000000E+01	1.0000000E+02
656	2.0000000E+01	5.2000000E+01	1.0000000E+02
657	4.0000000E+01	5.2000000E+01	1.0000000E+02
658	6.0000000E+01	5.2000000E+01	1.0000000E+02
659	8.0000000E+01	5.2000000E+01	1.0000000E+02
660	9.0000000E+01	5.2000000E+01	1.0000000E+02
661	1.0000000E+01	5.2000000E+01	1.2000000E+02
662	2.0000000E+01	5.2000000E+01	1.2000000E+02
663	4.0000000E+01	5.2000000E+01	1.2000000E+02
664	6.0000000E+01	5.2000000E+01	1.2000000E+02
665	8.0000000E+01	5.2000000E+01	1.2000000E+02
666	9.0000000E+01	5.2000000E+01	1.2000000E+02
667	1.0000000E+01	5.2000000E+01	1.4000000E+02
668	2.0000000E+01	5.2000000E+01	1.4000000E+02
669	4.0000000E+01	5.2000000E+01	1.4000000E+02
670	6.0000000E+01	5.2000000E+01	1.4000000E+02

671	8.0000000E+01	5.2000000E+01	1.4000000E+02
672	9.0000000E+01	5.2000000E+01	1.4000000E+02
673	1.0000000E+01	5.2000000E+01	1.6000000E+02
674	2.0000000E+01	5.2000000E+01	1.6000000E+02
675	4.0000000E+01	5.2000000E+01	1.6000000E+02
676	6.0000000E+01	5.2000000E+01	1.6000000E+02
677	8.0000000E+01	5.2000000E+01	1.6000000E+02
678	9.0000000E+01	5.2000000E+01	1.6000000E+02
679	1.0000000E+01	5.2000000E+01	1.8000000E+02
680	2.0000000E+01	5.2000000E+01	1.8000000E+02
681	4.0000000E+01	5.2000000E+01	1.8000000E+02
682	6.0000000E+01	5.2000000E+01	1.8000000E+02
683	8.0000000E+01	5.2000000E+01	1.8000000E+02
684	9.0000000E+01	5.2000000E+01	1.8000000E+02
685	1.0000000E+01	5.2000000E+01	2.0000000E+02
686	2.0000000E+01	5.2000000E+01	2.0000000E+02
687	4.0000000E+01	5.2000000E+01	2.0000000E+02
688	6.0000000E+01	5.2000000E+01	2.0000000E+02
689	8.0000000E+01	5.2000000E+01	2.0000000E+02
690	9.0000000E+01	5.2000000E+01	2.0000000E+02
691	1.0000000E+01	5.2000000E+01	2.2000000E+02
692	2.0000000E+01	5.2000000E+01	2.2000000E+02
693	4.0000000E+01	5.2000000E+01	2.2000000E+02
694	6.0000000E+01	5.2000000E+01	2.2000000E+02
695	8.0000000E+01	5.2000000E+01	2.2000000E+02
696	9.0000000E+01	5.2000000E+01	2.2000000E+02
697	1.0000000E+01	5.2000000E+01	2.4000000E+02
698	2.0000000E+01	5.2000000E+01	2.4000000E+02
699	4.0000000E+01	5.2000000E+01	2.4000000E+02
700	6.0000000E+01	5.2000000E+01	2.4000000E+02

701	8.0000000E+01	5.2000000E+01	2.4000000E+02
702	9.0000000E+01	5.2000000E+01	2.4000000E+02
703	1.0000000E+01	5.2000000E+01	2.6000000E+02
704	2.0000000E+01	5.2000000E+01	2.6000000E+02
705	4.0000000E+01	5.2000000E+01	2.6000000E+02
706	6.0000000E+01	5.2000000E+01	2.6000000E+02
707	8.0000000E+01	5.2000000E+01	2.6000000E+02
708	9.0000000E+01	5.2000000E+01	2.6000000E+02
709	1.0000000E+01	5.2000000E+01	2.8000000E+02
710	2.0000000E+01	5.2000000E+01	2.8000000E+02
711	4.0000000E+01	5.2000000E+01	2.8000000E+02
712	6.0000000E+01	5.2000000E+01	2.8000000E+02
713	8.0000000E+01	5.2000000E+01	2.8000000E+02
714	9.0000000E+01	5.2000000E+01	2.8000000E+02
715	1.0000000E+01	5.2000000E+01	3.0000000E+02
716	2.0000000E+01	5.2000000E+01	3.0000000E+02
717	4.0000000E+01	5.2000000E+01	3.0000000E+02
718	6.0000000E+01	5.2000000E+01	3.0000000E+02
719	8.0000000E+01	5.2000000E+01	3.0000000E+02
720	9.0000000E+01	5.2000000E+01	3.0000000E+02
721	1.0000000E+01	5.2000000E+01	3.2000000E+02
722	2.0000000E+01	5.2000000E+01	3.2000000E+02
723	4.0000000E+01	5.2000000E+01	3.2000000E+02
724	6.0000000E+01	5.2000000E+01	3.2000000E+02
725	8.0000000E+01	5.2000000E+01	3.2000000E+02
726	9.0000000E+01	5.2000000E+01	3.2000000E+02
727	1.0000000E+01	5.2000000E+01	3.4000000E+02
728	2.0000000E+01	5.2000000E+01	3.4000000E+02
729	4.0000000E+01	5.2000000E+01	3.4000000E+02
730	6.0000000E+01	5.2000000E+01	3.4000000E+02

731	8.0000000E+01	5.2000000E+01	3.4000000E+02
732	9.0000000E+01	5.2000000E+01	3.4000000E+02
733	1.0000000E+01	5.2000000E+01	3.6000000E+02
734	2.0000000E+01	5.2000000E+01	3.6000000E+02
735	4.0000000E+01	5.2000000E+01	3.6000000E+02
736	6.0000000E+01	5.2000000E+01	3.6000000E+02
737	8.0000000E+01	5.2000000E+01	3.6000000E+02
738	9.0000000E+01	5.2000000E+01	3.6000000E+02
739	1.0000000E+01	5.2000000E+01	3.8000000E+02
740	2.0000000E+01	5.2000000E+01	3.8000000E+02
741	4.0000000E+01	5.2000000E+01	3.8000000E+02
742	6.0000000E+01	5.2000000E+01	3.8000000E+02
743	8.0000000E+01	5.2000000E+01	3.8000000E+02
744	9.0000000E+01	5.2000000E+01	3.8000000E+02
745	1.0000000E+01	5.2000000E+01	4.0000000E+02
746	2.0000000E+01	5.2000000E+01	4.0000000E+02
747	4.0000000E+01	5.2000000E+01	4.0000000E+02
748	6.0000000E+01	5.2000000E+01	4.0000000E+02
749	8.0000000E+01	5.2000000E+01	4.0000000E+02
750	9.0000000E+01	5.2000000E+01	4.0000000E+02
751	1.0000000E+01	5.2000000E+01	4.2000000E+02
752	2.0000000E+01	5.2000000E+01	4.2000000E+02
753	4.0000000E+01	5.2000000E+01	4.2000000E+02
754	6.0000000E+01	5.2000000E+01	4.2000000E+02
755	8.0000000E+01	5.2000000E+01	4.2000000E+02
756	9.0000000E+01	5.2000000E+01	4.2000000E+02
757	1.0000000E+01	5.2000000E+01	4.4000000E+02
758	2.0000000E+01	5.2000000E+01	4.4000000E+02
759	4.0000000E+01	5.2000000E+01	4.4000000E+02
760	6.0000000E+01	5.2000000E+01	4.4000000E+02

761	8.0000000E+01	5.2000000E+01	4.4000000E+02
762	9.0000000E+01	5.2000000E+01	4.4000000E+02
763	1.0000000E+01	5.2000000E+01	4.6000000E+02
764	2.0000000E+01	5.2000000E+01	4.6000000E+02
765	4.0000000E+01	5.2000000E+01	4.6000000E+02
766	6.0000000E+01	5.2000000E+01	4.6000000E+02
767	8.0000000E+01	5.2000000E+01	4.6000000E+02
768	9.0000000E+01	5.2000000E+01	4.6000000E+02
769	1.0000000E+01	5.2000000E+01	4.8000000E+02
770	2.0000000E+01	5.2000000E+01	4.8000000E+02
771	4.0000000E+01	5.2000000E+01	4.8000000E+02
772	6.0000000E+01	5.2000000E+01	4.8000000E+02
773	8.0000000E+01	5.2000000E+01	4.8000000E+02
774	9.0000000E+01	5.2000000E+01	4.8000000E+02
775	1.0000000E+01	5.2000000E+01	5.0000000E+02
776	2.0000000E+01	5.2000000E+01	5.0000000E+02
777	4.0000000E+01	5.2000000E+01	5.0000000E+02
778	6.0000000E+01	5.2000000E+01	5.0000000E+02
779	8.0000000E+01	5.2000000E+01	5.0000000E+02
780	9.0000000E+01	5.2000000E+01	5.0000000E+02
781	1.0000000E+01	6.5000000E+01	0.0000000E+00
782	2.0000000E+01	6.5000000E+01	0.0000000E+00
783	4.0000000E+01	6.5000000E+01	0.0000000E+00
784	6.0000000E+01	6.5000000E+01	0.0000000E+00
785	8.0000000E+01	6.5000000E+01	0.0000000E+00
786	9.0000000E+01	6.5000000E+01	0.0000000E+00
787	1.0000000E+01	6.5000000E+01	2.0000000E+01
788	2.0000000E+01	6.5000000E+01	2.0000000E+01
789	4.0000000E+01	6.5000000E+01	2.0000000E+01
790	6.0000000E+01	6.5000000E+01	2.0000000E+01

791	8.0000000E+01	6.5000000E+01	2.0000000E+01
792	9.0000000E+01	6.5000000E+01	2.0000000E+01
793	1.0000000E+01	6.5000000E+01	4.0000000E+01
794	2.0000000E+01	6.5000000E+01	4.0000000E+01
795	4.0000000E+01	6.5000000E+01	4.0000000E+01
796	6.0000000E+01	6.5000000E+01	4.0000000E+01
797	8.0000000E+01	6.5000000E+01	4.0000000E+01
798	9.0000000E+01	6.5000000E+01	4.0000000E+01
799	1.0000000E+01	6.5000000E+01	6.0000000E+01
800	2.0000000E+01	6.5000000E+01	6.0000000E+01
801	4.0000000E+01	6.5000000E+01	6.0000000E+01
802	6.0000000E+01	6.5000000E+01	6.0000000E+01
803	8.0000000E+01	6.5000000E+01	6.0000000E+01
804	9.0000000E+01	6.5000000E+01	6.0000000E+01
805	1.0000000E+01	6.5000000E+01	8.0000000E+01
806	2.0000000E+01	6.5000000E+01	8.0000000E+01
807	4.0000000E+01	6.5000000E+01	8.0000000E+01
808	6.0000000E+01	6.5000000E+01	8.0000000E+01
809	8.0000000E+01	6.5000000E+01	8.0000000E+01
810	9.0000000E+01	6.5000000E+01	8.0000000E+01
811	1.0000000E+01	6.5000000E+01	1.0000000E+02
812	2.0000000E+01	6.5000000E+01	1.0000000E+02
813	4.0000000E+01	6.5000000E+01	1.0000000E+02
814	6.0000000E+01	6.5000000E+01	1.0000000E+02
815	8.0000000E+01	6.5000000E+01	1.0000000E+02
816	9.0000000E+01	6.5000000E+01	1.0000000E+02
817	1.0000000E+01	6.5000000E+01	1.2000000E+02
818	2.0000000E+01	6.5000000E+01	1.2000000E+02
819	4.0000000E+01	6.5000000E+01	1.2000000E+02
820	6.0000000E+01	6.5000000E+01	1.2000000E+02

821	8.0000000E+01	6.5000000E+01	1.2000000E+02
822	9.0000000E+01	6.5000000E+01	1.2000000E+02
823	1.0000000E+01	6.5000000E+01	1.4000000E+02
824	2.0000000E+01	6.5000000E+01	1.4000000E+02
825	4.0000000E+01	6.5000000E+01	1.4000000E+02
826	6.0000000E+01	6.5000000E+01	1.4000000E+02
827	8.0000000E+01	6.5000000E+01	1.4000000E+02
828	9.0000000E+01	6.5000000E+01	1.4000000E+02
829	1.0000000E+01	6.5000000E+01	1.6000000E+02
830	2.0000000E+01	6.5000000E+01	1.6000000E+02
831	4.0000000E+01	6.5000000E+01	1.6000000E+02
832	6.0000000E+01	6.5000000E+01	1.6000000E+02
833	8.0000000E+01	6.5000000E+01	1.6000000E+02
834	9.0000000E+01	6.5000000E+01	1.6000000E+02
835	1.0000000E+01	6.5000000E+01	1.8000000E+02
836	2.0000000E+01	6.5000000E+01	1.8000000E+02
837	4.0000000E+01	6.5000000E+01	1.8000000E+02
838	6.0000000E+01	6.5000000E+01	1.8000000E+02
839	8.0000000E+01	6.5000000E+01	1.8000000E+02
840	9.0000000E+01	6.5000000E+01	1.8000000E+02
841	1.0000000E+01	6.5000000E+01	2.0000000E+02
842	2.0000000E+01	6.5000000E+01	2.0000000E+02
843	4.0000000E+01	6.5000000E+01	2.0000000E+02
844	6.0000000E+01	6.5000000E+01	2.0000000E+02
845	8.0000000E+01	6.5000000E+01	2.0000000E+02
846	9.0000000E+01	6.5000000E+01	2.0000000E+02
847	1.0000000E+01	6.5000000E+01	2.2000000E+02
848	2.0000000E+01	6.5000000E+01	2.2000000E+02
849	4.0000000E+01	6.5000000E+01	2.2000000E+02
850	6.0000000E+01	6.5000000E+01	2.2000000E+02

851	8.0000000E+01	6.5000000E+01	2.2000000E+02
852	9.0000000E+01	6.5000000E+01	2.2000000E+02
853	1.0000000E+01	6.5000000E+01	2.4000000E+02
854	2.0000000E+01	6.5000000E+01	2.4000000E+02
855	4.0000000E+01	6.5000000E+01	2.4000000E+02
856	6.0000000E+01	6.5000000E+01	2.4000000E+02
857	8.0000000E+01	6.5000000E+01	2.4000000E+02
858	9.0000000E+01	6.5000000E+01	2.4000000E+02
859	1.0000000E+01	6.5000000E+01	2.6000000E+02
860	2.0000000E+01	6.5000000E+01	2.6000000E+02
861	4.0000000E+01	6.5000000E+01	2.6000000E+02
862	6.0000000E+01	6.5000000E+01	2.6000000E+02
863	8.0000000E+01	6.5000000E+01	2.6000000E+02
864	9.0000000E+01	6.5000000E+01	2.6000000E+02
865	1.0000000E+01	6.5000000E+01	2.8000000E+02
866	2.0000000E+01	6.5000000E+01	2.8000000E+02
867	4.0000000E+01	6.5000000E+01	2.8000000E+02
868	6.0000000E+01	6.5000000E+01	2.8000000E+02
869	8.0000000E+01	6.5000000E+01	2.8000000E+02
870	9.0000000E+01	6.5000000E+01	2.8000000E+02
871	1.0000000E+01	6.5000000E+01	3.0000000E+02
872	2.0000000E+01	6.5000000E+01	3.0000000E+02
873	4.0000000E+01	6.5000000E+01	3.0000000E+02
874	6.0000000E+01	6.5000000E+01	3.0000000E+02
875	8.0000000E+01	6.5000000E+01	3.0000000E+02
876	9.0000000E+01	6.5000000E+01	3.0000000E+02
877	1.0000000E+01	6.5000000E+01	3.2000000E+02
878	2.0000000E+01	6.5000000E+01	3.2000000E+02
879	4.0000000E+01	6.5000000E+01	3.2000000E+02
880	6.0000000E+01	6.5000000E+01	3.2000000E+02

881	8.0000000E+01	6.5000000E+01	3.2000000E+02
882	9.0000000E+01	6.5000000E+01	3.2000000E+02
883	1.0000000E+01	6.5000000E+01	3.4000000E+02
884	2.0000000E+01	6.5000000E+01	3.4000000E+02
885	4.0000000E+01	6.5000000E+01	3.4000000E+02
886	6.0000000E+01	6.5000000E+01	3.4000000E+02
887	8.0000000E+01	6.5000000E+01	3.4000000E+02
888	9.0000000E+01	6.5000000E+01	3.4000000E+02
889	1.0000000E+01	6.5000000E+01	3.6000000E+02
890	2.0000000E+01	6.5000000E+01	3.6000000E+02
891	4.0000000E+01	6.5000000E+01	3.6000000E+02
892	6.0000000E+01	6.5000000E+01	3.6000000E+02
893	8.0000000E+01	6.5000000E+01	3.6000000E+02
894	9.0000000E+01	6.5000000E+01	3.6000000E+02
895	1.0000000E+01	6.5000000E+01	3.8000000E+02
896	2.0000000E+01	6.5000000E+01	3.8000000E+02
897	4.0000000E+01	6.5000000E+01	3.8000000E+02
898	6.0000000E+01	6.5000000E+01	3.8000000E+02
899	8.0000000E+01	6.5000000E+01	3.8000000E+02
900	9.0000000E+01	6.5000000E+01	3.8000000E+02
901	1.0000000E+01	6.5000000E+01	4.0000000E+02
902	2.0000000E+01	6.5000000E+01	4.0000000E+02
903	4.0000000E+01	6.5000000E+01	4.0000000E+02
904	6.0000000E+01	6.5000000E+01	4.0000000E+02
905	8.0000000E+01	6.5000000E+01	4.0000000E+02
906	9.0000000E+01	6.5000000E+01	4.0000000E+02
907	1.0000000E+01	6.5000000E+01	4.2000000E+02
908	2.0000000E+01	6.5000000E+01	4.2000000E+02
909	4.0000000E+01	6.5000000E+01	4.2000000E+02
910	6.0000000E+01	6.5000000E+01	4.2000000E+02

911	8.0000000E+01	6.5000000E+01	4.2000000E+02
912	9.0000000E+01	6.5000000E+01	4.2000000E+02
913	1.0000000E+01	6.5000000E+01	4.4000000E+02
914	2.0000000E+01	6.5000000E+01	4.4000000E+02
915	4.0000000E+01	6.5000000E+01	4.4000000E+02
916	6.0000000E+01	6.5000000E+01	4.4000000E+02
917	8.0000000E+01	6.5000000E+01	4.4000000E+02
918	9.0000000E+01	6.5000000E+01	4.4000000E+02
919	1.0000000E+01	6.5000000E+01	4.6000000E+02
920	2.0000000E+01	6.5000000E+01	4.6000000E+02
921	4.0000000E+01	6.5000000E+01	4.6000000E+02
922	6.0000000E+01	6.5000000E+01	4.6000000E+02
923	8.0000000E+01	6.5000000E+01	4.6000000E+02
924	9.0000000E+01	6.5000000E+01	4.6000000E+02
925	1.0000000E+01	6.5000000E+01	4.8000000E+02
926	2.0000000E+01	6.5000000E+01	4.8000000E+02
927	4.0000000E+01	6.5000000E+01	4.8000000E+02
928	6.0000000E+01	6.5000000E+01	4.8000000E+02
929	8.0000000E+01	6.5000000E+01	4.8000000E+02
930	9.0000000E+01	6.5000000E+01	4.8000000E+02
931	1.0000000E+01	6.5000000E+01	5.0000000E+02
932	2.0000000E+01	6.5000000E+01	5.0000000E+02
933	4.0000000E+01	6.5000000E+01	5.0000000E+02
934	6.0000000E+01	6.5000000E+01	5.0000000E+02
935	8.0000000E+01	6.5000000E+01	5.0000000E+02
936	9.0000000E+01	6.5000000E+01	5.0000000E+02
1001	3.0000000E+01	2.6000000E+01	5.0000000E+02
1002	3.0000000E+01	3.9000000E+01	5.0000000E+02
1003	3.0000000E+01	5.2000000E+01	5.0000000E+02
1004	3.0000000E+01	6.5000000E+01	5.0000000E+02

1006	3.0000000E+01	2.6000000E+01	0.0000000E+00
1009	3.0000000E+01	3.9000000E+01	0.0000000E+00
1012	3.0000000E+01	5.2000000E+01	0.0000000E+00
1015	3.0000000E+01	6.5000000E+01	0.0000000E+00
1018	3.0000000E+01	2.6000000E+01	3.2000000E+02
1021	3.0000000E+01	3.9000000E+01	3.2000000E+02
1024	3.0000000E+01	5.2000000E+01	3.2000000E+02
1026	3.0000000E+01	6.5000000E+01	3.2000000E+02
1030	3.0000000E+01	6.5000000E+01	2.0000000E+02
1033	3.0000000E+01	5.2000000E+01	2.0000000E+02
1036	3.0000000E+01	3.9000000E+01	2.0000000E+02
1039	3.0000000E+01	2.6000000E+01	2.0000000E+02
1041	1.0000000E+01	2.6000000E+01	4.9000000E+02
1042	1.0000000E+01	3.9000000E+01	4.9000000E+02
1043	1.0000000E+01	5.2000000E+01	4.9000000E+02
1044	1.0000000E+01	6.5000000E+01	4.9000000E+02
1046	9.0000000E+01	2.6000000E+01	4.9000000E+02
1048	9.0000000E+01	3.9000000E+01	4.9000000E+02
1050	9.0000000E+01	5.2000000E+01	4.9000000E+02
1052	9.0000000E+01	6.5000000E+01	4.9000000E+02
1058	1.0000000E+01	6.5000000E+01	2.5000000E+02
1061	9.0000000E+01	6.5000000E+01	2.5000000E+02
1064	1.0000000E+01	5.2000000E+01	2.5000000E+02
1067	9.0000000E+01	5.2000000E+01	2.5000000E+02
1070	1.0000000E+01	3.9000000E+01	2.5000000E+02
1073	9.0000000E+01	3.9000000E+01	2.5000000E+02
1076	1.0000000E+01	2.6000000E+01	2.5000000E+02
1079	9.0000000E+01	2.6000000E+01	2.5000000E+02
1106	1.0000000E+01	6.5000000E+01	2.3000000E+02
1109	9.0000000E+01	6.5000000E+01	2.3000000E+02

1112	1.0000000E+01	5.2000000E+01	2.3000000E+02
1115	9.0000000E+01	5.2000000E+01	2.3000000E+02
1118	1.0000000E+01	3.9000000E+01	2.3000000E+02
1121	9.0000000E+01	3.9000000E+01	2.3000000E+02
1124	1.0000000E+01	2.6000000E+01	2.3000000E+02
1127	9.0000000E+01	2.6000000E+01	2.3000000E+02
1130	1.0000000E+01	6.5000000E+01	3.7000000E+02
1133	9.0000000E+01	6.5000000E+01	3.7000000E+02
1136	1.0000000E+01	5.2000000E+01	3.7000000E+02
1139	9.0000000E+01	5.2000000E+01	3.7000000E+02
1142	1.0000000E+01	3.9000000E+01	3.7000000E+02
1145	9.0000000E+01	3.9000000E+01	3.7000000E+02
1148	1.0000000E+01	2.6000000E+01	3.7000000E+02
1151	9.0000000E+01	2.6000000E+01	3.7000000E+02
1154	1.0000000E+01	6.5000000E+01	1.1000000E+02
1157	9.0000000E+01	6.5000000E+01	1.1000000E+02
1160	1.0000000E+01	5.2000000E+01	1.1000000E+02
1163	9.0000000E+01	5.2000000E+01	1.1000000E+02
1166	1.0000000E+01	3.9000000E+01	1.1000000E+02
1169	9.0000000E+01	3.9000000E+01	1.1000000E+02
1172	1.0000000E+01	2.6000000E+01	1.1000000E+02
1175	9.0000000E+01	2.6000000E+01	1.1000000E+02
1177	2.0000000E+01	2.6000000E+01	2.3000000E+02
1178	4.0000000E+01	2.6000000E+01	2.3000000E+02
1179	6.0000000E+01	2.6000000E+01	2.3000000E+02
1180	8.0000000E+01	2.6000000E+01	2.3000000E+02
1183	2.0000000E+01	3.9000000E+01	2.3000000E+02
1184	4.0000000E+01	3.9000000E+01	2.3000000E+02
1185	6.0000000E+01	3.9000000E+01	2.3000000E+02
1186	8.0000000E+01	3.9000000E+01	2.3000000E+02

1189	2.0000000E+01	5.2000000E+01	2.3000000E+02
1190	4.0000000E+01	5.2000000E+01	2.3000000E+02
1191	6.0000000E+01	5.2000000E+01	2.3000000E+02
1192	8.0000000E+01	5.2000000E+01	2.3000000E+02
1195	2.0000000E+01	6.5000000E+01	2.3000000E+02
1196	4.0000000E+01	6.5000000E+01	2.3000000E+02
1197	6.0000000E+01	6.5000000E+01	2.3000000E+02
1198	8.0000000E+01	6.5000000E+01	2.3000000E+02
1199	1.0000000E+01	1.3000000E+01	3.7000000E+02
1200	2.0000000E+01	1.3000000E+01	3.7000000E+02
1201	4.0000000E+01	1.3000000E+01	3.7000000E+02
1202	6.0000000E+01	1.3000000E+01	3.7000000E+02
1203	8.0000000E+01	1.3000000E+01	3.7000000E+02
1204	9.0000000E+01	1.3000000E+01	3.7000000E+02
1206	2.0000000E+01	2.6000000E+01	3.7000000E+02
1207	4.0000000E+01	2.6000000E+01	3.7000000E+02
1208	6.0000000E+01	2.6000000E+01	3.7000000E+02
1209	8.0000000E+01	2.6000000E+01	3.7000000E+02
1212	2.0000000E+01	3.9000000E+01	3.7000000E+02
1213	4.0000000E+01	3.9000000E+01	3.7000000E+02
1214	6.0000000E+01	3.9000000E+01	3.7000000E+02
1215	8.0000000E+01	3.9000000E+01	3.7000000E+02
1218	2.0000000E+01	5.2000000E+01	3.7000000E+02
1219	4.0000000E+01	5.2000000E+01	3.7000000E+02
1220	6.0000000E+01	5.2000000E+01	3.7000000E+02
1221	8.0000000E+01	5.2000000E+01	3.7000000E+02
1224	2.0000000E+01	6.5000000E+01	3.7000000E+02
1225	4.0000000E+01	6.5000000E+01	3.7000000E+02
1226	6.0000000E+01	6.5000000E+01	3.7000000E+02
1227	8.0000000E+01	6.5000000E+01	3.7000000E+02

1229	1.0000000E+01	5.8500000E+01	3.7500000E+02
1230	1.0000000E+01	5.8500000E+01	3.6500000E+02
1231	9.0000000E+01	5.8500000E+01	3.7500000E+02
1232	9.0000000E+01	5.8500000E+01	3.6500000E+02
1233	1.0000000E+01	4.5500000E+01	3.7500000E+02
1234	1.0000000E+01	4.5500000E+01	3.6500000E+02
1235	9.0000000E+01	4.5500000E+01	3.7500000E+02
1236	9.0000000E+01	4.5500000E+01	3.6500000E+02
1237	1.0000000E+01	3.2500000E+01	3.7500000E+02
1238	1.0000000E+01	3.2500000E+01	3.6500000E+02
1239	9.0000000E+01	3.2500000E+01	3.7500000E+02
1240	9.0000000E+01	3.2500000E+01	3.6500000E+02
1241	1.0000000E+01	1.9500000E+01	3.7500000E+02
1242	1.0000000E+01	1.9500000E+01	3.6500000E+02
1243	9.0000000E+01	1.9500000E+01	3.7500000E+02
1244	9.0000000E+01	1.9500000E+01	3.6500000E+02
1245	1.0000000E+01	6.5000000E+00	2.4000000E+02
1246	2.0000000E+01	6.5000000E+00	2.4000000E+02
1247	4.0000000E+01	6.5000000E+00	2.4000000E+02
1248	6.0000000E+01	6.5000000E+00	2.4000000E+02
1249	8.0000000E+01	6.5000000E+00	2.4000000E+02
1250	9.0000000E+01	6.5000000E+00	2.4000000E+02
1251	1.5000000E+01	1.3000000E+01	2.4000000E+02
1252	3.0000000E+01	1.3000000E+01	2.4000000E+02
1253	5.0000000E+01	1.3000000E+01	2.4000000E+02
1254	7.0000000E+01	1.3000000E+01	2.4000000E+02
1255	8.5000000E+01	1.3000000E+01	2.4000000E+02
1256	1.0000000E+01	1.3000000E+01	2.3000000E+02
1257	1.0000000E+01	1.3000000E+01	2.5000000E+02
1258	2.0000000E+01	1.3000000E+01	2.3000000E+02

1259	2.0000000E+01	1.3000000E+01	2.5000000E+02
1260	4.0000000E+01	1.3000000E+01	2.3000000E+02
1261	4.0000000E+01	1.3000000E+01	2.5000000E+02
1262	6.0000000E+01	1.3000000E+01	2.3000000E+02
1263	6.0000000E+01	1.3000000E+01	2.5000000E+02
1264	8.0000000E+01	1.3000000E+01	2.3000000E+02
1265	8.0000000E+01	1.3000000E+01	2.5000000E+02
1266	9.0000000E+01	1.3000000E+01	2.3000000E+02
1267	9.0000000E+01	1.3000000E+01	2.5000000E+02
1268	1.0000000E+01	1.9500000E+01	2.4000000E+02
1269	2.0000000E+01	1.9500000E+01	2.4000000E+02
1270	4.0000000E+01	1.9500000E+01	2.4000000E+02
1271	6.0000000E+01	1.9500000E+01	2.4000000E+02
1272	8.0000000E+01	1.9500000E+01	2.4000000E+02
1273	9.0000000E+01	1.9500000E+01	2.4000000E+02
1274	1.5000000E+01	2.6000000E+01	2.4000000E+02
1275	3.0000000E+01	2.6000000E+01	2.4000000E+02
1276	5.0000000E+01	2.6000000E+01	2.4000000E+02
1277	7.0000000E+01	2.6000000E+01	2.4000000E+02
1278	8.5000000E+01	2.6000000E+01	2.4000000E+02
1279	1.0000000E+01	2.6000000E+01	2.2500000E+02
1281	2.0000000E+01	2.6000000E+01	2.2500000E+02
1282	2.0000000E+01	2.6000000E+01	2.5000000E+02
1283	4.0000000E+01	2.6000000E+01	2.2500000E+02
1284	4.0000000E+01	2.6000000E+01	2.5000000E+02
1285	6.0000000E+01	2.6000000E+01	2.2500000E+02
1286	6.0000000E+01	2.6000000E+01	2.5000000E+02
1287	8.0000000E+01	2.6000000E+01	2.2500000E+02
1288	8.0000000E+01	2.6000000E+01	2.5000000E+02
1289	9.0000000E+01	2.6000000E+01	2.2500000E+02

1291	1.0000000E+01	3.2500000E+01	2.4000000E+02
1292	2.0000000E+01	3.2500000E+01	2.4000000E+02
1293	4.0000000E+01	3.2500000E+01	2.4000000E+02
1294	6.0000000E+01	3.2500000E+01	2.4000000E+02
1295	8.0000000E+01	3.2500000E+01	2.4000000E+02
1296	9.0000000E+01	3.2500000E+01	2.4000000E+02
1297	1.5000000E+01	3.9000000E+01	2.4000000E+02
1298	3.0000000E+01	3.9000000E+01	2.4000000E+02
1299	5.0000000E+01	3.9000000E+01	2.4000000E+02
1300	7.0000000E+01	3.9000000E+01	2.4000000E+02
1301	8.5000000E+01	3.9000000E+01	2.4000000E+02
1302	1.0000000E+01	3.9000000E+01	2.2500000E+02
1304	2.0000000E+01	3.9000000E+01	2.2500000E+02
1305	2.0000000E+01	3.9000000E+01	2.5000000E+02
1306	4.0000000E+01	3.9000000E+01	2.2500000E+02
1307	4.0000000E+01	3.9000000E+01	2.5000000E+02
1308	6.0000000E+01	3.9000000E+01	2.2500000E+02
1309	6.0000000E+01	3.9000000E+01	2.5000000E+02
1310	8.0000000E+01	3.9000000E+01	2.2500000E+02
1311	8.0000000E+01	3.9000000E+01	2.5000000E+02
1312	9.0000000E+01	3.9000000E+01	2.2500000E+02
1314	1.0000000E+01	4.5500000E+01	2.4000000E+02
1315	2.0000000E+01	4.5500000E+01	2.4000000E+02
1316	4.0000000E+01	4.5500000E+01	2.4000000E+02
1317	6.0000000E+01	4.5500000E+01	2.4000000E+02
1318	8.0000000E+01	4.5500000E+01	2.4000000E+02
1319	9.0000000E+01	4.5500000E+01	2.4000000E+02
1320	1.5000000E+01	5.2000000E+01	2.4000000E+02
1321	3.0000000E+01	5.2000000E+01	2.4000000E+02
1322	5.0000000E+01	5.2000000E+01	2.4000000E+02

1323	7.0000000E+01	5.2000000E+01	2.4000000E+02
1324	8.5000000E+01	5.2000000E+01	2.4000000E+02
1325	1.0000000E+01	5.2000000E+01	2.2500000E+02
1327	2.0000000E+01	5.2000000E+01	2.2500000E+02
1328	2.0000000E+01	5.2000000E+01	2.5000000E+02
1329	4.0000000E+01	5.2000000E+01	2.2500000E+02
1330	4.0000000E+01	5.2000000E+01	2.5000000E+02
1331	6.0000000E+01	5.2000000E+01	2.2500000E+02
1332	6.0000000E+01	5.2000000E+01	2.5000000E+02
1333	8.0000000E+01	5.2000000E+01	2.2500000E+02
1334	8.0000000E+01	5.2000000E+01	2.5000000E+02
1335	9.0000000E+01	5.2000000E+01	2.2500000E+02
1337	1.0000000E+01	5.8500000E+01	2.4000000E+02
1338	2.0000000E+01	5.8500000E+01	2.4000000E+02
1339	4.0000000E+01	5.8500000E+01	2.4000000E+02
1340	6.0000000E+01	5.8500000E+01	2.4000000E+02
1341	8.0000000E+01	5.8500000E+01	2.4000000E+02
1342	9.0000000E+01	5.8500000E+01	2.4000000E+02
1343	1.5000000E+01	6.5000000E+01	2.4000000E+02
1344	3.0000000E+01	6.5000000E+01	2.4000000E+02
1345	5.0000000E+01	6.5000000E+01	2.4000000E+02
1346	7.0000000E+01	6.5000000E+01	2.4000000E+02
1347	8.5000000E+01	6.5000000E+01	2.4000000E+02
1348	1.0000000E+01	6.5000000E+01	2.2500000E+02
1350	2.0000000E+01	6.5000000E+01	2.2500000E+02
1351	2.0000000E+01	6.5000000E+01	2.5000000E+02
1352	4.0000000E+01	6.5000000E+01	2.2500000E+02
1353	4.0000000E+01	6.5000000E+01	2.5000000E+02
1354	6.0000000E+01	6.5000000E+01	2.2500000E+02
1355	6.0000000E+01	6.5000000E+01	2.5000000E+02

1356	8.0000000E+01	6.5000000E+01	2.2500000E+02
1357	8.0000000E+01	6.5000000E+01	2.5000000E+02
1358	9.0000000E+01	6.5000000E+01	2.2500000E+02
1360	1.0000000E+01	5.8500000E+01	2.5500000E+02
1361	1.0000000E+01	5.8500000E+01	2.4500000E+02
1362	9.0000000E+01	5.8500000E+01	2.5500000E+02
1363	9.0000000E+01	5.8500000E+01	2.4500000E+02
1364	1.0000000E+01	4.5500000E+01	2.5500000E+02
1365	1.0000000E+01	4.5500000E+01	2.4500000E+02
1366	9.0000000E+01	4.5500000E+01	2.5500000E+02
1367	9.0000000E+01	4.5500000E+01	2.4500000E+02
1368	1.0000000E+01	3.2500000E+01	2.5500000E+02
1369	1.0000000E+01	3.2500000E+01	2.4500000E+02
1370	9.0000000E+01	3.2500000E+01	2.5500000E+02
1371	9.0000000E+01	3.2500000E+01	2.4500000E+02
1372	1.0000000E+01	1.9500000E+01	2.5500000E+02
1373	1.0000000E+01	1.9500000E+01	2.4500000E+02
1374	9.0000000E+01	1.9500000E+01	2.5500000E+02
1375	9.0000000E+01	1.9500000E+01	2.4500000E+02
1376	1.0000000E+01	5.8500000E+01	2.3500000E+02
1377	1.0000000E+01	5.8500000E+01	2.2500000E+02
1378	9.0000000E+01	5.8500000E+01	2.3500000E+02
1379	9.0000000E+01	5.8500000E+01	2.2500000E+02
1380	1.0000000E+01	4.5500000E+01	2.3500000E+02
1381	1.0000000E+01	4.5500000E+01	2.2500000E+02
1382	9.0000000E+01	4.5500000E+01	2.3500000E+02
1383	9.0000000E+01	4.5500000E+01	2.2500000E+02
1384	1.0000000E+01	3.2500000E+01	2.3500000E+02
1385	1.0000000E+01	3.2500000E+01	2.2500000E+02
1386	9.0000000E+01	3.2500000E+01	2.3500000E+02

1387	9.0000000E+01	3.2500000E+01	2.2500000E+02
1388	1.0000000E+01	1.9500000E+01	2.3500000E+02
1389	1.0000000E+01	1.9500000E+01	2.2500000E+02
1390	9.0000000E+01	1.9500000E+01	2.3500000E+02
1391	9.0000000E+01	1.9500000E+01	2.2500000E+02
1392	1.0000000E+01	2.6000000E+01	2.3500000E+02
1393	2.0000000E+01	2.6000000E+01	2.3500000E+02
1394	4.0000000E+01	2.6000000E+01	2.3500000E+02
1395	6.0000000E+01	2.6000000E+01	2.3500000E+02
1396	8.0000000E+01	2.6000000E+01	2.3500000E+02
1397	9.0000000E+01	2.6000000E+01	2.3500000E+02
1398	1.0000000E+01	3.9000000E+01	2.3500000E+02
1399	2.0000000E+01	3.9000000E+01	2.3500000E+02
1400	4.0000000E+01	3.9000000E+01	2.3500000E+02
1401	6.0000000E+01	3.9000000E+01	2.3500000E+02
1402	8.0000000E+01	3.9000000E+01	2.3500000E+02
1403	9.0000000E+01	3.9000000E+01	2.3500000E+02
1404	1.0000000E+01	5.2000000E+01	2.3500000E+02
1405	2.0000000E+01	5.2000000E+01	2.3500000E+02
1406	4.0000000E+01	5.2000000E+01	2.3500000E+02
1407	6.0000000E+01	5.2000000E+01	2.3500000E+02
1408	8.0000000E+01	5.2000000E+01	2.3500000E+02
1409	9.0000000E+01	5.2000000E+01	2.3500000E+02
1410	1.0000000E+01	6.5000000E+01	2.3500000E+02
1411	2.0000000E+01	6.5000000E+01	2.3500000E+02
1412	4.0000000E+01	6.5000000E+01	2.3500000E+02
1413	6.0000000E+01	6.5000000E+01	2.3500000E+02
1414	8.0000000E+01	6.5000000E+01	2.3500000E+02
1415	9.0000000E+01	6.5000000E+01	2.3500000E+02
1416	1.0000000E+01	1.3000000E+01	1.1000000E+02

1417	2.0000000E+01	1.3000000E+01	1.1000000E+02
1418	4.0000000E+01	1.3000000E+01	1.1000000E+02
1419	6.0000000E+01	1.3000000E+01	1.1000000E+02
1420	8.0000000E+01	1.3000000E+01	1.1000000E+02
1421	9.0000000E+01	1.3000000E+01	1.1000000E+02
1423	2.0000000E+01	2.6000000E+01	1.1000000E+02
1424	4.0000000E+01	2.6000000E+01	1.1000000E+02
1425	6.0000000E+01	2.6000000E+01	1.1000000E+02
1426	8.0000000E+01	2.6000000E+01	1.1000000E+02
1429	2.0000000E+01	3.9000000E+01	1.1000000E+02
1430	4.0000000E+01	3.9000000E+01	1.1000000E+02
1431	6.0000000E+01	3.9000000E+01	1.1000000E+02
1432	8.0000000E+01	3.9000000E+01	1.1000000E+02
1435	2.0000000E+01	5.2000000E+01	1.1000000E+02
1436	4.0000000E+01	5.2000000E+01	1.1000000E+02
1437	6.0000000E+01	5.2000000E+01	1.1000000E+02
1438	8.0000000E+01	5.2000000E+01	1.1000000E+02
1441	2.0000000E+01	6.5000000E+01	1.1000000E+02
1442	4.0000000E+01	6.5000000E+01	1.1000000E+02
1443	6.0000000E+01	6.5000000E+01	1.1000000E+02
1444	8.0000000E+01	6.5000000E+01	1.1000000E+02
1446	1.0000000E+01	5.8500000E+01	1.1500000E+02
1447	1.0000000E+01	5.8500000E+01	1.0500000E+02
1448	9.0000000E+01	5.8500000E+01	1.1500000E+02
1449	9.0000000E+01	5.8500000E+01	1.0500000E+02
1450	1.0000000E+01	4.5500000E+01	1.1500000E+02
1451	1.0000000E+01	4.5500000E+01	1.0500000E+02
1452	9.0000000E+01	4.5500000E+01	1.1500000E+02
1453	9.0000000E+01	4.5500000E+01	1.0500000E+02
1454	1.0000000E+01	3.2500000E+01	1.1500000E+02

1455	1.0000000E+01	3.2500000E+01	1.0500000E+02
1456	9.0000000E+01	3.2500000E+01	1.1500000E+02
1457	9.0000000E+01	3.2500000E+01	1.0500000E+02
1458	1.0000000E+01	1.9500000E+01	1.1500000E+02
1459	1.0000000E+01	1.9500000E+01	1.0500000E+02
1460	9.0000000E+01	1.9500000E+01	1.1500000E+02
1461	9.0000000E+01	1.9500000E+01	1.0500000E+02
1462	1.0000000E+01	1.3000000E+01	4.9000000E+02
1463	2.0000000E+01	1.3000000E+01	4.9000000E+02
1464	4.0000000E+01	1.3000000E+01	4.9000000E+02
1465	6.0000000E+01	1.3000000E+01	4.9000000E+02
1466	8.0000000E+01	1.3000000E+01	4.9000000E+02
1467	9.0000000E+01	1.3000000E+01	4.9000000E+02
1468	1.0000000E+01	2.6000000E+01	4.8500000E+02
1469	2.0000000E+01	2.6000000E+01	4.9000000E+02
1470	4.0000000E+01	2.6000000E+01	4.9000000E+02
1471	6.0000000E+01	2.6000000E+01	4.9000000E+02
1472	8.0000000E+01	2.6000000E+01	4.9000000E+02
1474	1.0000000E+01	3.9000000E+01	4.8500000E+02
1475	2.0000000E+01	3.9000000E+01	4.9000000E+02
1476	4.0000000E+01	3.9000000E+01	4.9000000E+02
1477	6.0000000E+01	3.9000000E+01	4.9000000E+02
1478	8.0000000E+01	3.9000000E+01	4.9000000E+02
1480	1.0000000E+01	5.2000000E+01	4.8500000E+02
1481	2.0000000E+01	5.2000000E+01	4.9000000E+02
1482	4.0000000E+01	5.2000000E+01	4.9000000E+02
1483	6.0000000E+01	5.2000000E+01	4.9000000E+02
1484	8.0000000E+01	5.2000000E+01	4.9000000E+02
1486	1.0000000E+01	6.5000000E+01	4.8500000E+02
1487	2.0000000E+01	6.5000000E+01	4.9000000E+02

1488	4.0000000E+01	6.5000000E+01	4.9000000E+02
1489	6.0000000E+01	6.5000000E+01	4.9000000E+02
1490	8.0000000E+01	6.5000000E+01	4.9000000E+02
1492	1.0000000E+01	2.6000000E+01	4.9500000E+02
1493	1.0000000E+01	3.9000000E+01	4.9500000E+02
1494	1.0000000E+01	5.2000000E+01	4.9500000E+02
1495	1.0000000E+01	6.5000000E+01	4.9500000E+02
1496	1.0000000E+01	1.9500000E+01	4.9500000E+02
1497	1.0000000E+01	1.9500000E+01	4.8500000E+02
1498	1.0000000E+01	3.2500000E+01	4.9500000E+02
1499	1.0000000E+01	3.2500000E+01	4.8500000E+02
1500	1.0000000E+01	4.5500000E+01	4.9500000E+02
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2058	794	800
2059	800	806
2060	806	812
2061	812	1441
2062	818	824
2063	824	830
2064	830	836
2065	836	842
2066	842	848
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2068	854	1351
2069	860	866
2070	866	872
2071	872	878
2072	878	884
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2074	890	1224

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2076	902	908
2077	908	914
2078	914	920
2079	920	926
2080	926	1487
2081	783	789
2082	789	795
2083	795	801
2084	801	807
2085	807	813
2086	813	1442
2087	819	825
2088	825	831
2089	831	837
2090	837	843
2091	843	849
2092	849	1352
2093	855	1353
2094	861	867
2095	867	873
2096	873	879
2097	879	885
2098	885	891
2099	891	1225
2100	897	903
2101	903	909
2102	909	915
2103	915	921
2104	921	927

2105	927	1488
2106	784	790
2107	790	796
2108	796	802
2109	802	808
2110	808	814
2111	814	1443
2112	820	826
2113	826	832
2114	832	838
2115	838	844
2116	844	850
2117	850	1354
2118	856	1355
2119	862	868
2120	868	874
2121	874	880
2122	880	886
2123	886	892
2124	892	1226
2125	898	904
2126	904	910
2127	910	916
2128	916	922
2129	922	928
2130	928	1489
2131	785	791
2132	791	797
2133	797	803
2134	803	809

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2136	815	1444
2137	821	827
2138	827	833
2139	833	839
2140	839	845
2141	845	851
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2143	857	1357
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2145	869	875
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2147	881	887
2148	887	893
2149	893	1227
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2155	929	1490
2156	786	792
2157	792	798
2158	798	804
2159	804	810
2160	810	816
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2163	828	834
2164	834	840

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2167	852	1358
2168	858	1061
2169	864	870
2170	870	876
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2172	882	888
2173	888	894
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2176	906	912
2177	912	918
2178	918	924
2179	924	930
2180	930	1052
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2243	1003	777
2244	1004	933
2245	308	1001
2246	1001	309
2247	464	1002
2248	1002	465
2249	620	1003
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2252	1004	777
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2258	1012	471
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2262	1018	255
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2277	1041	1492
2278	1042	1493
2279	1043	1494
2280	1044	1495
2281	307	1496
2282	1041	1497
2283	463	1498
2284	1042	1499

2285	619	1500
2286	1043	1501
2287	775	1502
2288	1044	1503
2289	312	1504
2290	468	1505
2291	624	1506
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2295	1048	1510
2296	1046	1511
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2357	271	1241
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2372	1169	1457
2373	193	1458
2374	1172	1459
2375	198	1460
2376	1175	1461
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3085	1184	1400
3086	1185	1401
3087	1186	1402
3088	1121	1403
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3092	1191	1407
3093	1192	1408
3094	1115	1409
3095	1106	1410
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3140	1238	421
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3150	1248	232

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3168	1266	234
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3177	1275	387
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3179	1277	389
3180	1278	390

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3183	1281	1177
3184	1282	392
3185	1283	1178
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3188	1286	394
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3190	1288	395
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3246	1344	855
3247	1345	856
3248	1346	857
3249	1347	858
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3252	1350	1195
3253	1351	860
3254	1352	1196
3255	1353	861
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3257	1355	862
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3259	1357	863
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3263	1361	697
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3275	1373	229
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3277	1375	234
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3281	1379	696
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3289	1387	384
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3335	1169	510
3336	1160	661
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3338	1436	663
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3345	1443	820
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3348	1446	1154
3349	1447	655
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3357	1455	343
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3359	1457	348
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3362	1460	1175
3363	1461	192
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3366	1464	309
3367	1465	310
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3369	1467	312
3370	1468	1041
3371	1469	464
3372	1470	465
3373	1471	466
3374	1472	467
3375	1046	468
3376	1474	1042
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3378	1476	621
3379	1477	622
3380	1478	623
3381	1048	624
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3384	1482	777
3385	1483	778
3386	1484	779
3387	1050	780
3388	1486	1044
3389	1487	932
3390	1488	933

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3392	1490	935
3393	1052	936
3394	1492	463
3395	1493	619
3396	1494	775
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3398	1496	1041
3399	1497	301
3400	1498	1042
3401	1499	457
3402	1500	1043
3403	1501	613
3404	1502	1044
3405	1503	769
3406	1504	1046
3407	1505	1048
3408	1506	1050
3409	1507	1052
3410	1508	774
3411	1509	618
3412	1510	462
3413	1511	306

UNITS FEET KIPS DEG FAH

MEMBER	PROPERTIES	TABLE	'CONRECT '	'REC22x22	
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527	528	529	530	531	-
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587	588	589	590	591	-
592	873	874	875	876	-
877	878	879	880	881	-
882	883	884	885	886	-
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912	913	914	915	916	
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1747	1748	1749	1750	1751	-
1752	1753	1754	1755	1756	-
1757	1758	1759	1760	1761	-
1762	1763	1764	1765	1766	-
1767	1768	1769	1770	1771	-
1772	1773	1774	1775	1776	
1777	1778	1779	1780	1781	-
1782	1783	1784	1785	1786	-
1787	1788	1789	1790	1791	-
1792	1793	1794	1795	1796	-
1797	1798	1799	1800	1801	-
1802	1803	1804	1805	1806	-
1807	1808	1809	1810	1811	-
1812	1813	1814	1815	1816	-
1817	1818	1819	1820	1821	-
1822	1823	1824	1825	1826	-
1827	1828	1829	1830	1831	-
1832	1833	1834	1835	1836	-
1837	1838	1839	1840	1841	-
1842	1843	1844	1845	1846	-
1847	1848	1849	1850	1851	-
1852	1853	1854	1855	1856	-
1857	1858	1859	1860	1861	-

1862	1863	1864	1865	1866	-
1867	1868	1869	1870	1871	-
1872	1873	1874	1875	1876	
1877	1878	1879	1880	1881	-
1882	1883	1884	1885	1886	-
1887	1888	1889	1890	1891	-
1892	1893	1894	1895	1896	-
1897	1898	1899	1900	3170	-
3171	3172	3173	3174	3175	-
3193	3194	3195	3196	3197	-
3198	3216	3217	3218	3219	-
3220	3221	3239	3240	3241	-
3242	3243	3244			

MEMBER PROPERTIES	TABLE	'WBEAM9	'	'W18x35	'
593	594	595		596	597 -
598	599	600		601	602 -
603	604	605		606	607 -
608	609	610		611	612 -
613	614	615		616	617 -
618	619	620		621	622 -
623	624	625		626	627 -
628	629	630		631	632 -
633	634	635		636	637 -
638	639	640		641	642 -
643	644	645		646	647 -
648	649	650		651	652 -
653	654	655		656	657 -
658	659	660		661	662 -
663	664	665		666	667 -
668	669	670		671	672 -

673	674	675	676	677	-
678	679	680	681	682	-
683	684	685	686	687	-
688	689	690	691	692	
693	694	695	696	697	-
698	699	700	701	702	-
703	704	705	706	707	-
708	709	710	711	712	-
713	714	715	716	717	-
718	719	720	721	722	-
1029	1030	1031	1032	1033	-
1034	1035	1036	1037	1038	-
1039	1040	1041	1042	1043	-
1044	1045	1046	1047	1048	-
1049	1050	1051	1052	1053	-
1054	1055	1056	1057	1058	-
1059	1060	1061	1062	1063	-
1064	1065	1066	1067	1068	-
1069	1070	1071	1072	1073	-
1074	1075	1076	1077	1078	-
1079	1080	1081	1082	1083	-
1084	1085	1086	1087	1088	-
1089	1090	1091	1092	1093	-
1094	1095	1096	1097	1098	
1099	1100	1101	1102	1103	-
1104	1105	1106	1107	1108	-
1109	1110	1111	1112	1113	-
1114	1115	1116	1117	1118	-
1119	1120	1121	1122	1123	-
1124	1125	1126	1127	1128	-

1129	1130	1131	1132	1133	-
1134	1135	1136	1137	1138	-
1139	1140	1141	1142	1143	-
1144	1145	1146	1147	1148	-
1149	1150	1151	1152	1153	-
1154	1155	1156	1157	1158	-
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1470	1471	1472	1473	1474	-
1475	1476	1477	1478	1479	-
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1485	1486	1487	1488	1489	-
1490	1491	1492	1493	1494	-
1495	1496	1497	1498	1499	-
1500	1501	1502	1503	1504	
1505	1506	1507	1508	1509	-
1510	1511	1512	1513	1514	-
1515	1516	1517	1518	1519	-
1520	1521	1522	1523	1524	-
1525	1526	1527	1528	1529	-
1530	1531	1532	1533	1534	-
1535	1536	1537	1538	1539	-
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1550	1551	1552	1553	1554	-
1555	1556	1557	1558	1559	-
1560	1561	1562	1563	1564	-
1565	1566	1567	1568	1569	-
1570	1571	1572	1573	1574	-
1575	1576	1577	1578	1579	-
1580	1581	1582	1583	1584	-

1585	1586	1587	1588	1589	-
1590	1591	1592	1593	1594	-
1901	1902	1903	1904	1905	-
1906	1907	1908	1909	1910	
1911	1912	1913	1914	1915	-
1916	1917	1918	1919	1920	-
1921	1922	1923	1924	1925	-
1926	1927	1928	1929	1930	-
1931	1932	1933	1934	1935	-
1936	1937	1938	1939	1940	-
1941	1942	1943	1944	1945	-
1946	1947	1948	1949	1950	-
1951	1952	1953	1954	1955	-
1956	1957	1958	1959	1960	-
1961	1962	1963	1964	1965	-
1966	1967	1968	1969	1970	-
1971	1972	1973	1974	1975	-
1976	1977	1978	1979	1980	-
1981	1982	1983	1984	1985	-
1986	1987	1988	1989	1990	-
1991	1992	1993	1994	1995	-
1996	1997	1998	1999	2000	-
2001	2002	2003	2004	2005	-
2006	2007	2008	2009	2010	
2011	2012	2013	2014	2015	-
2016	2017	2018	2019	2020	-
2021	2022	2023	2024	2025	-
2026	2027	2028	2029	2030	-
2241	2242	2243	2244	3176	-
3177	3178	3179	3180	3199	-

3200	3201	3202	3203	3222	-
3223	3224	3225	3226	3245	-
3246	3247	3248	3249		
MEMBER PROPERTIES	TABLE	'WBEAM9	'	'W18x50	'
723	724	725	726	727	-
728	729	730	731	732	-
733	734	735	736	737	-
738	739	740	741	742	-
743	744	745	746	747	-
748	749	750	751	752	-
753	754	755	756	757	-
758	759	760	761	762	-
763	764	765	766	767	-
768	769	770	771	772	-
773	774	775	776	777	-
778	779	780	781	782	-
783	784	785	786	787	-
788	789	790	791	792	-
793	794	795	796	797	-
798	799	800	801	802	-
803	804	805	806	807	-
808	809	810	811	812	-
813	814	815	816	817	-
818	819	820	821	822	
823	824	825	826	827	-
828	829	830	831	832	-
833	834	835	836	837	-
838	839	840	841	842	-
843	844	845	846	847	-
848	849	850	851	852	-

853	854	855	856	857	-
858	859	860	861	862	-
863	864	865	866	867	-
868	869	870	871	872	-
1159	1160	1161	1162	1163	-
1164	1165	1166	1167	1168	-
1169	1170	1171	1172	1173	-
1174	1175	1176	1177	1178	-
1179	1180	1181	1182	1183	-
1184	1185	1186	1187	1188	-
1189	1190	1191	1192	1193	-
1194	1195	1196	1197	1198	-
1199	1200	1201	1202	1203	-
1204	1205	1206	1207	1208	
1209	1210	1211	1212	1213	-
1214	1215	1216	1217	1218	-
1219	1220	1221	1222	1223	-
1224	1225	1226	1227	1228	-
1229	1230	1231	1232	1233	-
1234	1235	1236	1237	1238	-
1239	1240	1241	1242	1243	-
1244	1245	1246	1247	1248	-
1249	1250	1251	1252	1253	-
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1259	1260	1261	1262	1263	-
1264	1265	1266	1267	1268	-
1269	1270	1271	1272	1273	-
1274	1275	1276	1277	1278	-
1279	1280	1281	1282	1283	-
1284	1285	1286	1287	1288	-

1289	1290	1291	1292	1293	-
1294	1295	1296	1297	1298	-
1299	1300	1301	1302	1303	-
1304	1305	1306	1307	1308	
1595	1596	1597	1598	1599	-
1600	1601	1602	1603	1604	-
1605	1606	1607	1608	1609	-
1610	1611	1612	1613	1614	-
1615	1616	1617	1618	1619	-
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1625	1626	1627	1628	1629	-
1630	1631	1632	1633	1634	-
1635	1636	1637	1638	1639	-
1640	1641	1642	1643	1644	-
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1680	1681	1682	1683	1684	-
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1695	1696	1697	1698	1699	-
1700	1701	1702	1703	1704	-
1705	1706	1707	1708	1709	-
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1735	1736	1737	1738	1739	-
1740	1741	1742	1743	1744	-
2031	2032	2033	2034	2035	-
2036	2037	2038	2039	2040	-
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2081	2082	2083	2084	2085	-
2086	2087	2088	2089	2090	-
2091	2092	2093	2094	2095	-
2096	2097	2098	2099	2100	-
2101	2102	2103	2104	2105	-
2106	2107	2108	2109	2110	-
2111	2112	2113	2114	2115	-
2116	2117	2118	2119	2120	-
2121	2122	2123	2124	2125	-
2126	2127	2128	2129	2130	-
2131	2132	2133	2134	2135	-
2136	2137	2138	2139	2140	-
2141	2142	2143	2144	2145	-
2146	2147	2148	2149	2150	-
2151	2152	2153	2154	2155	-
2156	2157	2158	2159	2160	-

2161	2162	2163	2164	2165	-
2166	2167	2168	2169	2170	-
2171	2172	2173	2174	2175	-
2176	2177	2178	2179	2180	
2277	2278	2279	2280	3077	-
3078	3079	3080	3081	3082	-
3083	3084	3085	3086	3087	-
3088	3089	3090	3091	3092	-
3093	3094	3095	3096	3097	-
3098	3099	3100	3107	3108	-
3109	3110	3111	3112	3113	-
3114	3115	3116	3117	3118	-
3119	3120	3121	3122	3123	-
3124	3125	3126	3127	3128	-
3129	3130	3181	3182	3183	-
3184	3185	3186	3187	3188	-
3189	3190	3191	3192	3204	-
3205	3206	3207	3208	3209	-
3210	3211	3212	3213	3214	-
3215	3227	3228	3229	3230	-
3231	3232	3233	3234	3235	-
3236	3237	3238	3250	3251	-
3252	3253	3254	3255	3256	-
3257	3258	3259	3260	3261	
3294	3295	3296	3297	3298	-
3299	3300	3301	3302	3303	-
3304	3305	3306	3307	3308	-
3309	3310	3311	3312	3313	-
3314	3315	3316	3317	3324	-
3325	3326	3327	3328	3329	-

3330	3331	3332	3333	3334	-
3335	3336	3337	3338	3339	-
3340	3341	3342	3343	3344	-
3345	3346	3347	3370	3371	-
3372	3373	3374	3375	3376	-
3377	3378	3379	3380	3381	-
3382	3383	3384	3385	3386	-
3387	3388	3389	3390	3391	-
3392	3393	3394	3395	3396	-
3397					

MEMBER PROPERTIES	TABLE	'WSHAPES9'	'W12x22		'
2245	2246	2247	2248	2249	-
2250	2251	2252	2253	2254	-
2255	2256	2257	2258	2259	-
2260	2261	2262	2263	2264	-
2265	2266	2267	2268	2269	-
2270	2271	2272	2273	2274	-
2275	2276	2281	2282	2283	-
2284	2285	2286	2287	2288	-
2289	2290	2291	2292	2293	-
2294	2295	2296	2297	2298	-
2299	2300	2301	2302	2303	-
2304	2305	2306	2307	2308	-
2309	2310	2311	2312	2329	-
2330	2331	2332	2333	2334	-
2335	2336	2337	2338	2339	-
2340	2341	2342	2343	2344	-
2345	2346	2347	2348	2349	-
2350	2351	2352	2353	2354	-
2355	2356	2357	2358	2359	-

2360	2361	2362	2363	2364	
2365	2366	2367	2368	2369	-
2370	2371	2372	2373	2374	-
2375	2376	3131	3132	3133	-
3134	3135	3136	3137	3138	-
3139	3140	3141	3142	3143	-
3144	3145	3146	3262	3263	-
3264	3265	3266	3267	3268	-
3269	3270	3271	3272	3273	-
3274	3275	3276	3277	3278	-
3279	3280	3281	3282	3283	-
3284	3285	3286	3287	3288	-
3289	3290	3291	3292	3293	-
3348	3349	3350	3351	3352	-
3353	3354	3355	3356	3357	-
3358	3359	3360	3361	3362	-
3363	3398	3399	3400	3401	-
3402	3403	3404	3405	3406	-
3407	3408	3409	3410	3411	-
3412	3413				

STATUS SUPPORT -

1	2	3	4	5	-
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11	12	13	14	15	-
16	17	18	19	20	-
21	22	23	24	25	-
26	27	28	29	30	-
31	32	33	34	35	-
36	37	38	39	40	-

41	42	43	44	45	-
46	47	48	49	50	-
51	52	53	54	55	-
56	57	58	59	60	-
61	62	63	64	65	-
66	67	68	69	70	-
71	72	73	74	75	-
76	77	78	79	80	-
81	82	83	84	85	-
86	87	88	89	90	-
91	92	93	94	95	-
96	97	98	99	100	
STATUS SUPPORT -					
101	102	103	104	105	-
106	107	108	109	110	-
111	112	113	114	115	-
116	117	118	119	120	-
121	122	123	124	125	-
126	127	128	129	130	-
131	132	133	134	135	-
136	137	138	139	140	-
141	142	143	144	145	-
146	147	148	149	150	-
151	152	153	154	155	-
156					
UNITS FEET KIPS DEG FAH					
JOINT RELEASES					
1	2	3	4	5	-
6	7	8	9	10	-

11		12		13		14		15		-
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21		22		23		24		25		-
26		27		28		29		30		-
31		32		33		34		35		-
36		37		38		39		40		-
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46		47		48		49		50		-
51		52		53		54		55		-
56		57		58		59		60		-
61		62		63		64		65		-
66		67		68		69		70		-
71		72		73		74		75		-
76		77		78		79		80		-
81		82		83		84		85		-
86		87		88		89		90		-
91		92		93		94		95		-
96		97		98		99		100		-
	MOM	X	Y	Z						
101			102		103		104		105	-
106			107		108		109		110	-
111			112		113		114		115	-
116			117		118		119		120	-
121			122		123		124		125	-
126			127		128		129		130	-
131			132		133		134		135	-
136			137		138		139		140	-
141			142		143		144		145	-
146			147		148		149		150	-
151			152		153		154		155	-

156 -

MOM X Y Z

TYPE PLATE

ELEMENT INCIDENCES

2186	156	312	306	150
2187	150	306	300	144
2188	144	300	294	138
2189	138	294	288	132
2190	132	288	282	126
2191	126	282	276	120
2192	120	276	270	114
2193	114	270	264	108
2194	108	264	258	102
2195	102	258	252	96
2196	96	252	246	90
2197	90	246	240	84
2198	84	240	234	78
2199	78	234	228	72
2200	72	228	222	66
2201	66	222	216	60
2202	60	216	210	54
2203	54	210	204	48
2204	48	204	198	42
2205	42	198	192	36
2206	36	192	186	30
2207	30	186	180	24
2208	24	180	174	18
2209	18	174	168	12
2210	12	168	162	6

2211	1	157	158	2
2212	2	158	159	3
2213	3	159	160	4
2214	4	160	161	5
2215	5	161	162	6
2216	151	307	301	145
2217	145	301	295	139
2218	139	295	289	133
2219	133	289	283	127
2220	127	283	277	121
2221	121	277	271	115
2222	115	271	265	109
2223	109	265	259	103
2224	103	259	253	97
2225	97	253	247	91
2226	91	247	241	85
2227	85	241	235	79
2228	79	235	229	73
2229	73	229	223	67
2230	67	223	217	61
2231	61	217	211	55
2232	55	211	205	49
2233	49	205	199	43
2234	43	199	193	37
2235	37	193	187	31
2236	31	187	181	25
2237	25	181	175	19
2238	19	175	169	13
2239	13	169	163	7
2240	7	163	157	1

2377	787	781	782	788
2378	788	782	783	789
2379	789	783	784	790
2380	790	784	785	791
2381	791	785	786	792
2382	793	787	788	794
2383	794	788	789	795
2385	796	790	791	797
2386	797	791	792	798
2387	799	793	794	800
2388	800	794	795	801
2389	801	795	796	802
2390	802	796	797	803
2391	803	797	798	804
2392	805	799	800	806
2393	806	800	801	807
2394	807	801	802	808
2395	808	802	803	809
2396	809	803	804	810
2397	811	805	806	812
2398	812	806	807	813
2399	813	807	808	814
2400	814	808	809	815
2401	815	809	810	816
2402	817	811	812	818
2403	818	812	813	819
2404	819	813	814	820
2405	820	814	815	821
2406	821	815	816	822
2407	823	817	818	824

2408	824	818	819	825
2409	825	819	820	826
2410	826	820	821	827
2411	827	821	822	828
2412	829	823	824	830
2413	830	824	825	831
2414	831	825	826	832
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2416	833	827	828	834
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2418	836	830	831	837
2419	837	831	832	838
2420	838	832	833	839
2421	839	833	834	840
2422	841	835	836	842
2423	842	836	837	843
2424	843	837	838	844
2425	844	838	839	845
2426	845	839	840	846
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MATERIAL STEEL

MATERIAL CONCRETE -

2186	2187	2188	2189	2190	-
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MATERIAL CONCRETE -

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ELEMENT PROPERTIES TYPE 'SBHQ6 ' THICK 1.0000

2186	2187	2188	2189	2190	-
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ELEMENT PROPERTIES TYPE 'SBHQ6 ' THICK 0.9000

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2600	2601	2602	2603	2604	-
2607	2608	2609	2610	2611	

ELEMENT	PROPERTIES	TYPE	'SBHQ6	'	THICK	0.9000
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2613	2614	2615	2616	2617	-
2618	2619	2620	2621	2622	-
2623	2624	2625	2626	2628	-
2635	2636	2637	2638	2639	-
2640	2642	2643	2644	2645	-
2646	2647	2648	2649	2651	-
2652	2653	2654	2655	2656	-
2657	2658	2659	2660	2665	-
2666	2667	2668	2671	2672	-
2673	2674	2675	2678	2679	-
2680	2681	2682	2683	2684	-
2685	2686	2687	2690	2693	-
2694	2695	2696	2697	2698	-
2699	2700	2701	2704	2705	-
2706	2707	2708	2709	2710	-
2711	2712	2713	2718	2719	-
2720	2721	2722	2723	2724	-
2725	2726	2727	2729	2730	-
2731	2734	2735	2739	2740	-

2741	2744	2745	2746	2747	
ELEMENT	PROPERTIES	TYPE 'SBHQ6	' THICK	0.9000	
2748	2749	2752	2753	2754	-
2755	2756	2758	2759	2760	-
2761	2762	2763	2764	2765	-
2766	2767	2768	2769	2770	-
2771	2773	2780	2781	2782	-
2783	2784	2785	2787	2788	-
2789	2790	2791	2792	2793	-
2794	2796	2797	2798	2799	-
2800	2801	2802	2803	2804	-
2805	2810	2811	2812	2813	-
2816	2817	2818	2819	2820	-
2823	2824	2825	2826	2827	-
2828	2829	2830	2831	2832	-
2835	2838	2839	2840	2841	-
2842	2843	2844	2845	2846	-
2849	2850	2851	2852	2853	-
2854	2855	2856	2857	2858	-
2863	2864	2865	2866	2867	-
2868	2869	2870	2871	2872	-
2874	2875	2876	2879	2880	
ELEMENT	PROPERTIES	TYPE 'SBHQ6	' THICK	0.9000	
2884	2885	2886	2889	2890	-
2891	2892	2893	2894	2897	-
2898	2899	2900	2901	2903	-
2904	2905	2906	2907	2908	-
2909	2910	2911	2912	2913	-
2914	2915	2916	2918	2925	-
2926	2927	2928	2929	2930	-

2932	2933	2934	2935	2936	-
2937	2938	2939	2941		
ELEMENT PROPERTIES TYPE 'SBHQ6'			THICK	1.0000	
2942	2943	2944	2945	2946	-
2947	2948	2949	2950	2951	-
2952	2953	2954	2955	2956	-
2957	2958	2959	2960	2961	-
2962	2963	2964	2965	2966	-
2967	2968	2969	2970	2971	-
2972	2973	2974	2975	2976	-
2977	2978	2979	2980	2981	-
2982	2983	2984	2985	2986	-
2987	2988	2989	2990	2991	-
2992	2993	2994	2995	2996	-
2997	2998	2999	3000	3001	-
3002	3003	3004	3005	3006	-
3007	3008	3009	3010	3011	-
3012	3013	3014	3015	3016	-
3017	3018	3019	3020	3021	-
3022	3023	3024	3025	3026	-
3027	3028	3029	3030	3031	-
3032	3033	3034	3035	3036	-
3037	3038	3039	3040	3041	
ELEMENT PROPERTIES TYPE 'SBHQ6'			THICK	1.0000	
3042	3043	3044	3045	3046	-
3047	3048	3049	3050	3051	-
3052	3053	3054	3055	3056	-
3057	3058	3059	3060	3061	-
3062	3063	3064	3065	3066	-
3067	3068	3069	3070	3071	

DEFINE	GROUP	'support'	JOINTS	-	
1		2	3		4
					5
					-
6		7	8		9
					10
					-
11		12	13		14
					15
					-
16		17	18		19
					20
					-
21		22	23		24
					25
					-
26		27	28		29
					30
					-
31		32	33		34
					35
					-
36		37	38		39
					40
					-
41		42	43		44
					45
					-
46		47	48		49
					50
					-
51		52	53		54
					55
					-
56		57	58		59
					60
					-
61		62	63		64
					65
					-
66		67	68		69
					70
					-
71		72	73		74
					75
					-
76		77	78		79
					80
					-
81		82	83		84
					85
					-
86		87	88		89
					90
					-
91		92	93		94
					95
					-
96		97	98		99
					100

CHANGES

DEFINE	GROUP	'support'	JOINTS	-	
101		102	103		104
					105
					-
106		107	108		109
					110
					-
111		112	113		114
					115
					-
116		117	118		119
					120
					-
121		122	123		124
					125
					-
126		127	128		129
					130
					-

131	132	133	134	135	-
136	137	138	139	140	-
141	142	143	144	145	-
146	147	148	149	150	-
151	152	153	154	155	-
156					

ADDITIONS

DEFINE GROUP	'columns'	MEMBERS	-		
1	2	3	4	5	-
6	7	8	9	10	-
11	12	13	14	15	-
16	17	18	19	20	-
21	22	23	24	25	-
26	27	28	29	30	-
31	32	33	34	35	-
36	37	38	39	40	-
41	42	43	44	45	-
46	47	48	49	50	-
51	52	53	54	55	-
56	57	58	59	60	-
61	62	63	64	65	-
66	67	68	69	70	-
71	72	73	74	75	-
76	77	78	79	80	-
81	82	83	84	85	-
86	87	88	89	90	-
91	92	93	94	95	-
96	97	98	99	100	

CHANGES

DEFINE GROUP	'columns'	MEMBERS	-		
101	102	103	104	105	-
106	107	108	109	110	-
111	112	113	114	115	-
116	117	118	119	120	-
121	122	123	124	125	-
126	127	128	129	130	-
131	132	133	134	135	-
136	137	138	139	140	-
141	142	143	144	145	-
146	147	148	149	150	-
151	152	153	154	155	-
156	437	438	439	440	-
441	442	443	444	445	-
446	447	448	449	450	-
451	452	453	454	455	-
456	457	458	459	460	-
461	462	463	464	465	-
466	467	468	469	470	-
471	472	473	474	475	-
476	477	478	479	480	

DEFINE GROUP	'columns'	MEMBERS	-		
481	482	483	484	485	-
486	487	488	489	490	-
491	492	493	494	495	-
496	497	498	499	500	-
501	502	503	504	505	-
506	507	508	509	510	-
511	512	513	514	515	-

516	517	518	519	520	-
521	522	523	524	525	-
526	527	528	529	530	-
531	532	533	534	535	-
536	537	538	539	540	-
541	542	543	544	545	-
546	547	548	549	550	-
551	552	553	554	555	-
556	557	558	559	560	-
561	562	563	564	565	-
566	567	568	569	570	-
571	572	573	574	575	-
576	577	578	579	580	

DEFINE GROUP 'columns' MEMBERS -

581	582	583	584	585	-
586	587	588	589	590	-
591	592	873	874	875	-
876	877	878	879	880	-
881	882	883	884	885	-
886	887	888	889	890	-
891	892	893	894	895	-
896	897	898	899	900	-
901	902	903	904	905	-
906	907	908	909	910	-
911	912	913	914	915	-
916	917	918	919	920	-
921	922	923	924	925	-
926	927	928	929	930	-
931	932	933	934	935	-

936	937	938	939	940	-
941	942	943	944	945	-
946	947	948	949	950	-
951	952	953	954	955	-
956	957	958	959	960	

DEFINE GROUP	'columns'	MEMBERS	-		
961	962	963	964	965	-
966	967	968	969	970	-
971	972	973	974	975	-
976	977	978	979	980	-
981	982	983	984	985	-
986	987	988	989	990	-
991	992	993	994	995	-
996	997	998	999	1000	-
1001	1002	1003	1004	1005	-
1006	1007	1008	1009	1010	-
1011	1012	1013	1014	1015	-
1016	1017	1018	1019	1020	-
1021	1022	1023	1024	1025	-
1026	1027	1028	1309	1310	-
1311	1312	1313	1314	1315	-
1316	1317	1318	1319	1320	-
1321	1322	1323	1324	1325	-
1326	1327	1328	1329	1330	-
1331	1332	1333	1334	1335	-
1336	1337	1338	1339	1340	

DEFINE GROUP	'columns'	MEMBERS	-		
1341	1342	1343	1344	1345	-

1346	1347	1348	1349	1350	-
1351	1352	1353	1354	1355	-
1356	1357	1358	1359	1360	-
1361	1362	1363	1364	1365	-
1366	1367	1368	1369	1370	-
1371	1372	1373	1374	1375	-
1376	1377	1378	1379	1380	-
1381	1382	1383	1384	1385	-
1386	1387	1388	1389	1390	-
1391	1392	1393	1394	1395	-
1396	1397	1398	1399	1400	-
1401	1402	1403	1404	1405	-
1406	1407	1408	1409	1410	-
1411	1412	1413	1414	1415	-
1416	1417	1418	1419	1420	-
1421	1422	1423	1424	1425	-
1426	1427	1428	1429	1430	-
1431	1432	1433	1434	1435	-
1436	1437	1438	1439	1440	

DEFINE GROUP 'columns' MEMBERS -

1441	1442	1443	1444	1445	-
1446	1447	1448	1449	1450	-
1451	1452	1453	1454	1455	-
1456	1457	1458	1459	1460	-
1461	1462	1463	1464	1745	-
1746	1747	1748	1749	1750	-
1751	1752	1753	1754	1755	-
1756	1757	1758	1759	1760	-
1761	1762	1763	1764	1765	-

1766	1767	1768	1769	1770	-
1771	1772	1773	1774	1775	-
1776	1777	1778	1779	1780	-
1781	1782	1783	1784	1785	-
1786	1787	1788	1789	1790	-
1791	1792	1793	1794	1795	-
1796	1797	1798	1799	1800	-
1801	1802	1803	1804	1805	-
1806	1807	1808	1809	1810	-
1811	1812	1813	1814	1815	-
1816	1817	1818	1819	1820	

DEFINE GROUP 'columns' MEMBERS -

1821	1822	1823	1824	1825	-
1826	1827	1828	1829	1830	-
1831	1832	1833	1834	1835	-
1836	1837	1838	1839	1840	-
1841	1842	1843	1844	1845	-
1846	1847	1848	1849	1850	-
1851	1852	1853	1854	1855	-
1856	1857	1858	1859	1860	-
1861	1862	1863	1864	1865	-
1866	1867	1868	1869	1870	-
1871	1872	1873	1874	1875	-
1876	1877	1878	1879	1880	-
1881	1882	1883	1884	1885	-
1886	1887	1888	1889	1890	-
1891	1892	1893	1894	1895	-
1896	1897	1898	1899	1900	-
3147	3148	3149	3150	3151	-

3152	3170	3171	3172	3173	-
3174	3175	3193	3194	3195	-
3196	3197	3198	3216	3217	

DEFINE GROUP 'columns' MEMBERS -

3218	3219	3220	3221	3239	-
3240	3241	3242	3243	3244	

ADDITIONS

DEFINE GROUP 'Xbeams' MEMBERS -

157	158	159	160	161	-
162	163	164	165	166	-
167	168	169	170	171	-
172	173	174	175	176	-
177	178	179	180	181	-
182	183	184	185	186	-
187	188	189	190	191	-
192	193	194	195	196	-
197	198	199	200	201	-
202	203	204	205	206	-
207	208	209	210	211	-
212	213	214	215	216	-
217	218	219	220	221	-
222	223	224	225	226	-
227	228	229	230	231	-
232	233	234	235	236	-
237	238	239	240	241	-
242	243	244	245	246	-
247	248	249	250	251	-
252	253	254	255	256	

CHANGES

DEFINE	GROUP	'Xbeams'	MEMBERS	-	
257		258	259	260	261 -
262		263	264	265	266 -
267		268	269	270	271 -
272		273	274	275	276 -
277		278	279	280	281 -
282		283	284	285	286 -
593		594	595	596	597 -
598		599	600	601	602 -
603		604	605	606	607 -
608		609	610	611	612 -
613		614	615	616	617 -
618		619	620	621	622 -
623		624	625	626	627 -
628		629	630	631	632 -
633		634	635	636	637 -
638		639	640	641	642 -
643		644	645	646	647 -
648		649	650	651	652 -
653		654	655	656	657 -
658		659	660	661	662

DEFINE	GROUP	'Xbeams'	MEMBERS	-	
663		664	665	666	667 -
668		669	670	671	672 -
673		674	675	676	677 -
678		679	680	681	682 -
683		684	685	686	687 -
688		689	690	691	692 -

693	694	695	696	697	-
698	699	700	701	702	-
703	704	705	706	707	-
708	709	710	711	712	-
713	714	715	716	717	-
718	719	720	721	722	-
1029	1030	1031	1032	1033	-
1034	1035	1036	1037	1038	-
1039	1040	1041	1042	1043	-
1044	1045	1046	1047	1048	-
1049	1050	1051	1052	1053	-
1054	1055	1056	1057	1058	-
1059	1060	1061	1062	1063	-
1064	1065	1066	1067	1068	

DEFINE GROUP	'Xbeams '	MEMBERS	-		
1069	1070	1071	1072	1073	-
1074	1075	1076	1077	1078	-
1079	1080	1081	1082	1083	-
1084	1085	1086	1087	1088	-
1089	1090	1091	1092	1093	-
1094	1095	1096	1097	1098	-
1099	1100	1101	1102	1103	-
1104	1105	1106	1107	1108	-
1109	1110	1111	1112	1113	-
1114	1115	1116	1117	1118	-
1119	1120	1121	1122	1123	-
1124	1125	1126	1127	1128	-
1129	1130	1131	1132	1133	-
1134	1135	1136	1137	1138	-

1139	1140	1141	1142	1143	-
1144	1145	1146	1147	1148	-
1149	1150	1151	1152	1153	-
1154	1155	1156	1157	1158	-
1465	1466	1467	1468	1469	-
1470	1471	1472	1473	1474	

DEFINE GROUP	'Xbeams'	MEMBERS	-		
1475	1476	1477	1478	1479	-
1480	1481	1482	1483	1484	-
1485	1486	1487	1488	1489	-
1490	1491	1492	1493	1494	-
1495	1496	1497	1498	1499	-
1500	1501	1502	1503	1504	-
1505	1506	1507	1508	1509	-
1510	1511	1512	1513	1514	-
1515	1516	1517	1518	1519	-
1520	1521	1522	1523	1524	-
1525	1526	1527	1528	1529	-
1530	1531	1532	1533	1534	-
1535	1536	1537	1538	1539	-
1540	1541	1542	1543	1544	-
1545	1546	1547	1548	1549	-
1550	1551	1552	1553	1554	-
1555	1556	1557	1558	1559	-
1560	1561	1562	1563	1564	-
1565	1566	1567	1568	1569	-
1570	1571	1572	1573	1574	

DEFINE GROUP	'Xbeams'	MEMBERS	-
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1575	1576	1577	1578	1579	-
1580	1581	1582	1583	1584	-
1585	1586	1587	1588	1589	-
1590	1591	1592	1593	1594	-
1901	1902	1903	1904	1905	-
1906	1907	1908	1909	1910	-
1911	1912	1913	1914	1915	-
1916	1917	1918	1919	1920	-
1921	1922	1923	1924	1925	-
1926	1927	1928	1929	1930	-
1931	1932	1933	1934	1935	-
1936	1937	1938	1939	1940	-
1941	1942	1943	1944	1945	-
1946	1947	1948	1949	1950	-
1951	1952	1953	1954	1955	-
1956	1957	1958	1959	1960	-
1961	1962	1963	1964	1965	-
1966	1967	1968	1969	1970	-
1971	1972	1973	1974	1975	-
1976	1977	1978	1979	1980	

DEFINE GROUP	'Xbeams'	MEMBERS	-		
1981	1982	1983	1984	1985	-
1986	1987	1988	1989	1990	-
1991	1992	1993	1994	1995	-
1996	1997	1998	1999	2000	-
2001	2002	2003	2004	2005	-
2006	2007	2008	2009	2010	-
2011	2012	2013	2014	2015	-
2016	2017	2018	2019	2020	-

2021	2022	2023	2024	2025	-
2026	2027	2028	2029	2030	-
2241	2242	2243	2244	3153	-
3154	3155	3156	3157	3176	-
3177	3178	3179	3180	3199	-
3200	3201	3202	3203	3222	-
3223	3224	3225	3226	3245	-
3246	3247	3248	3249		

ADDITIONS

DEFINE GROUP	'Zbeams'	MEMBERS	-		
287	288	289	290	291	-
292	293	294	295	296	-
297	298	299	300	301	-
302	303	304	305	306	-
307	308	309	310	311	-
312	313	314	315	316	-
317	318	319	320	321	-
322	323	324	325	326	-
327	328	329	330	331	-
332	333	334	335	336	-
337	338	339	340	341	-
342	343	344	345	346	-
347	348	349	350	351	-
352	353	354	355	356	-
357	358	359	360	361	-
362	363	364	365	366	-
367	368	369	370	371	-
372	373	374	375	376	-
377	378	379	380	381	-

382	383	384	385	386	
CHANGES					
DEFINE GROUP	'Zbeams'	MEMBERS	-		
387	388	389	390	391	-
392	393	394	395	396	-
397	398	399	400	401	-
402	403	404	405	406	-
407	408	409	410	411	-
412	413	414	415	416	-
417	418	419	420	421	-
422	423	424	425	426	-
427	428	429	430	431	-
432	433	434	435	436	-
723	724	725	726	727	-
728	729	730	731	732	-
733	734	735	736	737	-
738	739	740	741	742	-
743	744	745	746	747	-
748	749	750	751	752	-
753	754	755	756	757	-
758	759	760	761	762	-
763	764	765	766	767	-
768	769	770	771	772	
DEFINE GROUP	'Zbeams'	MEMBERS	-		
773	774	775	776	777	-
778	779	780	781	782	-
783	784	785	786	787	-
788	789	790	791	792	-
793	794	795	796	797	-

798	799	800	801	802	-
803	804	805	806	807	-
808	809	810	811	812	-
813	814	815	816	817	-
818	819	820	821	822	-
823	824	825	826	827	-
828	829	830	831	832	-
833	834	835	836	837	-
838	839	840	841	842	-
843	844	845	846	847	-
848	849	850	851	852	-
853	854	855	856	857	-
858	859	860	861	862	-
863	864	865	866	867	-
868	869	870	871	872	

DEFINE GROUP	'Zbeams'	MEMBERS	-		
1159	1160	1161	1162	1163	-
1164	1165	1166	1167	1168	-
1169	1170	1171	1172	1173	-
1174	1175	1176	1177	1178	-
1179	1180	1181	1182	1183	-
1184	1185	1186	1187	1188	-
1189	1190	1191	1192	1193	-
1194	1195	1196	1197	1198	-
1199	1200	1201	1202	1203	-
1204	1205	1206	1207	1208	-
1209	1210	1211	1212	1213	-
1214	1215	1216	1217	1218	-
1219	1220	1221	1222	1223	-

1224	1225	1226	1227	1228	-
1229	1230	1231	1232	1233	-
1234	1235	1236	1237	1238	-
1239	1240	1241	1242	1243	-
1244	1245	1246	1247	1248	-
1249	1250	1251	1252	1253	-
1254	1255	1256	1257	1258	

DEFINE GROUP	'Zbeams'	MEMBERS	-		
1259	1260	1261	1262	1263	-
1264	1265	1266	1267	1268	-
1269	1270	1271	1272	1273	-
1274	1275	1276	1277	1278	-
1279	1280	1281	1282	1283	-
1284	1285	1286	1287	1288	-
1289	1290	1291	1292	1293	-
1294	1295	1296	1297	1298	-
1299	1300	1301	1302	1303	-
1304	1305	1306	1307	1308	-
1595	1596	1597	1598	1599	-
1600	1601	1602	1603	1604	-
1605	1606	1607	1608	1609	-
1610	1611	1612	1613	1614	-
1615	1616	1617	1618	1619	-
1620	1621	1622	1623	1624	-
1625	1626	1627	1628	1629	-
1630	1631	1632	1633	1634	-
1635	1636	1637	1638	1639	-
1640	1641	1642	1643	1644	

DEFINE GROUP	'Zbeams'	MEMBERS	-		
1645	1646	1647	1648	1649	-
1650	1651	1652	1653	1654	-
1655	1656	1657	1658	1659	-
1660	1661	1662	1663	1664	-
1665	1666	1667	1668	1669	-
1670	1671	1672	1673	1674	-
1675	1676	1677	1678	1679	-
1680	1681	1682	1683	1684	-
1685	1686	1687	1688	1689	-
1690	1691	1692	1693	1694	-
1695	1696	1697	1698	1699	-
1700	1701	1702	1703	1704	-
1705	1706	1707	1708	1709	-
1710	1711	1712	1713	1714	-
1715	1716	1717	1718	1719	-
1720	1721	1722	1723	1724	-
1725	1726	1727	1728	1729	-
1730	1731	1732	1733	1734	-
1735	1736	1737	1738	1739	-
1740	1741	1742	1743	1744	

DEFINE GROUP	'Zbeams'	MEMBERS	-		
2031	2032	2033	2034	2035	-
2036	2037	2038	2039	2040	-
2041	2042	2043	2044	2045	-
2046	2047	2048	2049	2050	-
2051	2052	2053	2054	2055	-
2056	2057	2058	2059	2060	-
2061	2062	2063	2064	2065	-

2066	2067	2068	2069	2070	-
2071	2072	2073	2074	2075	-
2076	2077	2078	2079	2080	-
2081	2082	2083	2084	2085	-
2086	2087	2088	2089	2090	-
2091	2092	2093	2094	2095	-
2096	2097	2098	2099	2100	-
2101	2102	2103	2104	2105	-
2106	2107	2108	2109	2110	-
2111	2112	2113	2114	2115	-
2116	2117	2118	2119	2120	-
2121	2122	2123	2124	2125	-
2126	2127	2128	2129	2130	

DEFINE GROUP	'Zbeams'	MEMBERS	-		
2131	2132	2133	2134	2135	-
2136	2137	2138	2139	2140	-
2141	2142	2143	2144	2145	-
2146	2147	2148	2149	2150	-
2151	2152	2153	2154	2155	-
2156	2157	2158	2159	2160	-
2161	2162	2163	2164	2165	-
2166	2167	2168	2169	2170	-
2171	2172	2173	2174	2175	-
2176	2177	2178	2179	2180	-
2277	2278	2279	2280	3077	-
3078	3079	3080	3081	3082	-
3083	3084	3085	3086	3087	-
3088	3089	3090	3091	3092	-
3093	3094	3095	3096	3097	-

3098	3099	3100	3101	3102	-
3103	3104	3105	3106	3107	-
3108	3109	3110	3111	3112	-
3113	3114	3115	3116	3117	-
3118	3119	3120	3121	3122	

DEFINE GROUP	'Zbeams'	MEMBERS	-		
3123	3124	3125	3126	3127	-
3128	3129	3130	3158	3159	-
3160	3161	3162	3163	3164	-
3165	3166	3167	3168	3169	-
3181	3182	3183	3184	3185	-
3186	3187	3188	3189	3190	-
3191	3192	3204	3205	3206	-
3207	3208	3209	3210	3211	-
3212	3213	3214	3215	3227	-
3228	3229	3230	3231	3232	-
3233	3234	3235	3236	3237	-
3238	3250	3251	3252	3253	-
3254	3255	3256	3257	3258	-
3259	3260	3261	3294	3295	-
3296	3297	3298	3299	3300	-
3301	3302	3303	3304	3305	-
3306	3307	3308	3309	3310	-
3311	3312	3313	3314	3315	-
3316	3317	3318	3319	3320	-
3321	3322	3323	3324	3325	

DEFINE GROUP	'Zbeams'	MEMBERS	-		
3326	3327	3328	3329	3330	-

3331	3332	3333	3334	3335	-
3336	3337	3338	3339	3340	-
3341	3342	3343	3344	3345	-
3346	3347	3364	3365	3366	-
3367	3368	3369	3370	3371	-
3372	3373	3374	3375	3376	-
3377	3378	3379	3380	3381	-
3382	3383	3384	3385	3386	-
3387	3388	3389	3390	3391	-
3392	3393	3394	3395	3396	-
3397					

ADDITIONS

ADDITIONS

UNITS FEET KIPS DEG FAH

SELF WEIGHT 2 '1' -

DIRECTION X FACTOR 1.000 INCLUDE FINITE ELEMENTS ALL MEMBERS

UNITS FEET KIPS DEG FAH

SELF WEIGHT 1 'SW' -

DIRECTION -Y FACTOR 1.000 INCLUDE FINITE ELEMENTS ALL MEMBERS

1 FORCE X Y Z

2 FORCE X Y Z

3 FORCE X Y Z

4 FORCE X Y Z

5 FORCE X Y Z

6 FORCE X Y Z

7 FORCE X Y Z

8 FORCE X Y Z

9	FORCE X Y Z
10	FORCE X Y Z
11	FORCE X Y Z
12	FORCE X Y Z
13	FORCE X Y Z
14	FORCE X Y Z
15	FORCE X Y Z
16	FORCE X Y Z
17	FORCE X Y Z
18	FORCE X Y Z
19	FORCE X Y Z
20	FORCE X Y Z
21	FORCE X Y Z
22	FORCE X Y Z
23	FORCE X Y Z
24	FORCE X Y Z
25	FORCE X Y Z
26	FORCE X Y Z
27	FORCE X Y Z
28	FORCE X Y Z
29	FORCE X Y Z
30	FORCE X Y Z
31	FORCE X Y Z
32	FORCE X Y Z
33	FORCE X Y Z
34	FORCE X Y Z
35	FORCE X Y Z
36	FORCE X Y Z
37	FORCE X Y Z
38	FORCE X Y Z

39 FORCE X Y Z
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42 FORCE X Y Z
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44 FORCE X Y Z
45 FORCE X Y Z
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49 FORCE X Y Z
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58 FORCE X Y Z
59 FORCE X Y Z
60 FORCE X Y Z
61 FORCE X Y Z
62 FORCE X Y Z
63 FORCE X Y Z
64 FORCE X Y Z
65 FORCE X Y Z
66 FORCE X Y Z
67 FORCE X Y Z
68 FORCE X Y Z

69	FORCE	X	Y	Z
70	FORCE	X	Y	Z
71	FORCE	X	Y	Z
72	FORCE	X	Y	Z
73	FORCE	X	Y	Z
74	FORCE	X	Y	Z
75	FORCE	X	Y	Z
76	FORCE	X	Y	Z
77	FORCE	X	Y	Z
78	FORCE	X	Y	Z
79	FORCE	X	Y	Z
80	FORCE	X	Y	Z
81	FORCE	X	Y	Z
82	FORCE	X	Y	Z
83	FORCE	X	Y	Z
84	FORCE	X	Y	Z
85	FORCE	X	Y	Z
86	FORCE	X	Y	Z
87	FORCE	X	Y	Z
88	FORCE	X	Y	Z
89	FORCE	X	Y	Z
90	FORCE	X	Y	Z
91	FORCE	X	Y	Z
92	FORCE	X	Y	Z
93	FORCE	X	Y	Z
94	FORCE	X	Y	Z
95	FORCE	X	Y	Z
96	FORCE	X	Y	Z
97	FORCE	X	Y	Z
98	FORCE	X	Y	Z

99 FORCE X Y Z
100 FORCE X Y Z
101 FORCE X Y Z
106 FORCE X Y Z
111 FORCE X Y Z
116 FORCE X Y Z
121 FORCE X Y Z
126 FORCE X Y Z
131 FORCE X Y Z
136 FORCE X Y Z
141 FORCE X Y Z
146 FORCE X Y Z
151 FORCE X Y Z
156 FORCE X Y Z
102 FORCE X Y Z
107 FORCE X Y Z
112 FORCE X Y Z
117 FORCE X Y Z
122 FORCE X Y Z
127 FORCE X Y Z
132 FORCE X Y Z
137 FORCE X Y Z
142 FORCE X Y Z
147 FORCE X Y Z
152 FORCE X Y Z
103 FORCE X Y Z
108 FORCE X Y Z
113 FORCE X Y Z
118 FORCE X Y Z
123 FORCE X Y Z

128 FORCE X Y Z
133 FORCE X Y Z
138 FORCE X Y Z
143 FORCE X Y Z
148 FORCE X Y Z
153 FORCE X Y Z
104 FORCE X Y Z
109 FORCE X Y Z
114 FORCE X Y Z
119 FORCE X Y Z
124 FORCE X Y Z
129 FORCE X Y Z
134 FORCE X Y Z
139 FORCE X Y Z
144 FORCE X Y Z
149 FORCE X Y Z
154 FORCE X Y Z
105 FORCE X Y Z
110 FORCE X Y Z
115 FORCE X Y Z
120 FORCE X Y Z
125 FORCE X Y Z
130 FORCE X Y Z
135 FORCE X Y Z
140 FORCE X Y Z
145 FORCE X Y Z
150 FORCE X Y Z
155 FORCE X Y Z

BASE ISOLATION ELEMENT DATA

1	'BI-1'	ATTACHED TO	1	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
2	'BI-2'	ATTACHED TO	6	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
3	'BI-3'	ATTACHED TO	11	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
4	'BI-4'	ATTACHED TO	16	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
5	'BI-5'	ATTACHED TO	21	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
6	'BI-6'	ATTACHED TO	26	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
7	'BI-7'	ATTACHED TO	31	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
8	'BI-8'	ATTACHED TO	36	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
9	'BI-9'	ATTACHED TO	41	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
10	'BI-10'	ATTACHED TO	46	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
11	'BI-11'	ATTACHED TO	51	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
12	'BI-12'	ATTACHED TO	56	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
13	'BI-13'	ATTACHED TO	61	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
14	'BI-14'	ATTACHED TO	66	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
15	'BI-15'	ATTACHED TO	71	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
16	'BI-16'	ATTACHED TO	76	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
17	'BI-17'	ATTACHED TO	81	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05
18	'BI-18'	ATTACHED TO	86	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY	1.25E-3 KAX	1.0E6 FRICTION	CONSTANT FC 0.05

19	'BI-19'	ATTACHED TO	91	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
20	'BI-20'	ATTACHED TO	96	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
21	'BI-21'	ATTACHED TO	2	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
22	'BI-22'	ATTACHED TO	7	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
23	'BI-23'	ATTACHED TO	12	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
24	'BI-24'	ATTACHED TO	17	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
25	'BI-25'	ATTACHED TO	22	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
26	'BI-26'	ATTACHED TO	27	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
27	'BI-27'	ATTACHED TO	32	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
28	'BI-28'	ATTACHED TO	37	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
29	'BI-29'	ATTACHED TO	42	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
30	'BI-30'	ATTACHED TO	47	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
31	'BI-31'	ATTACHED TO	52	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
32	'BI-32'	ATTACHED TO	57	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
33	'BI-33'	ATTACHED TO	62	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
34	'BI-34'	ATTACHED TO	67	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
35	'BI-35'	ATTACHED TO	72	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
36	'BI-36'	ATTACHED TO	77	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	

37 'BI-37' ATTACHED TO 82 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

38 'BI-38' ATTACHED TO 87 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

39 'BI-39' ATTACHED TO 92 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

40 'BI-40' ATTACHED TO 97 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

41 'BI-41' ATTACHED TO 3 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

42 'BI-42' ATTACHED TO 8 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

43 'BI-43' ATTACHED TO 13 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

44 'BI-44' ATTACHED TO 18 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

45 'BI-45' ATTACHED TO 23 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

46 'BI-46' ATTACHED TO 28 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

47 'BI-47' ATTACHED TO 33 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

48 'BI-48' ATTACHED TO 38 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

49 'BI-49' ATTACHED TO 43 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

50 'BI-50' ATTACHED TO 48 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

51 'BI-51' ATTACHED TO 53 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

52 'BI-52' ATTACHED TO 58 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

53 'BI-53' ATTACHED TO 63 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

54 'BI-54' ATTACHED TO 68 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

55 'BI-55' ATTACHED TO 73 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

56 'BI-56' ATTACHED TO 78 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

57 'BI-57' ATTACHED TO 83 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

58 'BI-58' ATTACHED TO 88 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

59 'BI-59' ATTACHED TO 93 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

60 'BI-60' ATTACHED TO 98 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

61 'BI-61' ATTACHED TO 4 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

62 'BI-62' ATTACHED TO 9 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

63 'BI-63' ATTACHED TO 14 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

64 'BI-64' ATTACHED TO 19 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

65 'BI-65' ATTACHED TO 24 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

66 'BI-66' ATTACHED TO 29 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

67 'BI-67' ATTACHED TO 34 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

68 'BI-68' ATTACHED TO 39 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

69 'BI-69' ATTACHED TO 44 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

70 'BI-70' ATTACHED TO 49 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

71 'BI-71' ATTACHED TO 54 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

72 'BI-72' ATTACHED TO 59 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

73	'BI-73'	ATTACHED TO	64	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
74	'BI-74'	ATTACHED TO	69	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
75	'BI-75'	ATTACHED TO	74	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
76	'BI-76'	ATTACHED TO	79	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
77	'BI-77'	ATTACHED TO	84	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
78	'BI-78'	ATTACHED TO	89	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
79	'BI-79'	ATTACHED TO	94	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
80	'BI-80'	ATTACHED TO	99	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
81	'BI-81'	ATTACHED TO	5	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
82	'BI-82'	ATTACHED TO	10	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
83	'BI-83'	ATTACHED TO	15	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
84	'BI-84'	ATTACHED TO	20	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
85	'BI-85'	ATTACHED TO	25	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
86	'BI-86'	ATTACHED TO	30	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
87	'BI-87'	ATTACHED TO	35	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
88	'BI-88'	ATTACHED TO	40	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
89	'BI-89'	ATTACHED TO	45	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	
90	'BI-90'	ATTACHED TO	50	TYPE FRICTION BEARING PLANE XZ
RD	1.25 UY 1.25E-3 KAX 1.0E6	FRICTION	CONSTANT FC 0.05	

91 'BI-91' ATTACHED TO 55 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

92 'BI-92' ATTACHED TO 60 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

93 'BI-93' ATTACHED TO 65 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

94 'BI-94' ATTACHED TO 70 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

95 'BI-95' ATTACHED TO 75 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

96 'BI-96' ATTACHED TO 80 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

97 'BI-97' ATTACHED TO 85 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

98 'BI-98' ATTACHED TO 90 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

99 'BI-99' ATTACHED TO 95 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

100 'BI-100' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

101 'BI-101' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

106 'BI-106' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

111 'BI-111' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

116 'BI-116' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

121 'BI-121' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

126 'BI-126' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

131 'BI-131' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

136 'BI-136' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

141 'BI-141' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

146 'BI-146' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

151 'BI-151' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

156 'BI-156' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

102 'BI-102' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

107 'BI-107' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

112 'BI-112' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

117 'BI-117' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

122 'BI-122' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

127 'BI-127' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

132 'BI-132' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

137 'BI-137' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

142 'BI-142' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

147 'BI-147' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

152 'BI-152' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

103 'BI-103' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

108 'BI-108' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

113 'BI-113' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

118 'BI-118' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

123 'BI-123' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

128 'BI-128' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

133 'BI-133' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

138 'BI-138' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

143 'BI-143' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

148 'BI-148' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

153 'BI-153' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

104 'BI-104' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

109 'BI-109' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

114 'BI-114' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

119 'BI-119' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

124 'BI-124' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

129 'BI-129' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

134 'BI-134' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

139 'BI-139' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

144 'BI-144' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

149 'BI-149' ATTACHED TO 100 TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

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154  'BI-154'      ATTACHED TO      100  TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

105  'BI-105'      ATTACHED TO      100  TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

110  'BI-110'      ATTACHED TO      100  TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

115  'BI-115'      ATTACHED TO      100  TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

120  'BI-120'      ATTACHED TO      100  TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

125  'BI-125'      ATTACHED TO      100  TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

130  'BI-130'      ATTACHED TO      100  TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

135  'BI-135'      ATTACHED TO      100  TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

140  'BI-140'      ATTACHED TO      100  TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

145  'BI-145'      ATTACHED TO      100  TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

150  'BI-150'      ATTACHED TO      100  TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

155  'BI-155'      ATTACHED TO      100  TYPE FRICTION BEARING PLANE XZ
RD 1.25 UY 1.25E-3 KAX 1.0E6 FRICTION CONSTANT FC 0.05

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END

\$

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FORM LOAD 101 'EQ' -

FROM 1 1.200

\$ ---NONLINEAR STATIC ANALYSIS NEXT-----

LOAD LIST 101

ACTIVE SOLVER GTSES

QUERY

CONVERGENCE TOLERANCE EQUIL 0.001

MAXIMUM NUMBER OF CYCLES 100

LOAD LIST 101

NONLINEAR ANALYSIS

\$ -----

\$ ---NONLINEAR DYNAMIC ANALYSIS NEXT-----

\$ -----

TRANSIENT LOAD 'EQ-XYZ'

SUPPORT ACCELERATION

TRANSL X FILE 'ELCENTRO' FACTOR 0.707

TRANSL Z FILE 'ELCENTRO' FACTOR 0.707

TRANSL Y FILE 'ELCENTRO' FACTOR 0.35

INTEGRATE FROM 0.0 TO 20.0 AT 0.01

END TRANSIENT LOAD

INERTIA OF JOINTS LUMPED \$ MASS OF ALL MEMBERS AND FINITE
ELEMENTS

INERTIA OF JOINTS FROM LOAD 1 ALL DOF \$ MASS FROM STATIC LOAD 1

\$ *****

\$ ***** DYNAMIC PARAMETERS

\$ *****

DYNAMIC PARAMETERS

MAXIMUM NUMBER OF EQUILIBRIUM CYCLES 1000

CONVERGENCE TOLERANCE 0.001

PRINT MAX

STORE VELOCITIES OFF

```
STORE ACCELERATIONS OFF

INITIAL STRESS LOAD 100

END DYNAMIC PARAMETERS

$ *****

DAMPING PROPORTIONAL TO STIFFNESS 0.001 MASS 1.35

$ $$*****
$ ***** DYNAMIC ANALYSIS NONLINEAR
$ *****

LOAD LIST 'EQ-XYZ'

$
=====
=====

QUERY

DYNAMIC ANALYSIS NONLINEAR
```

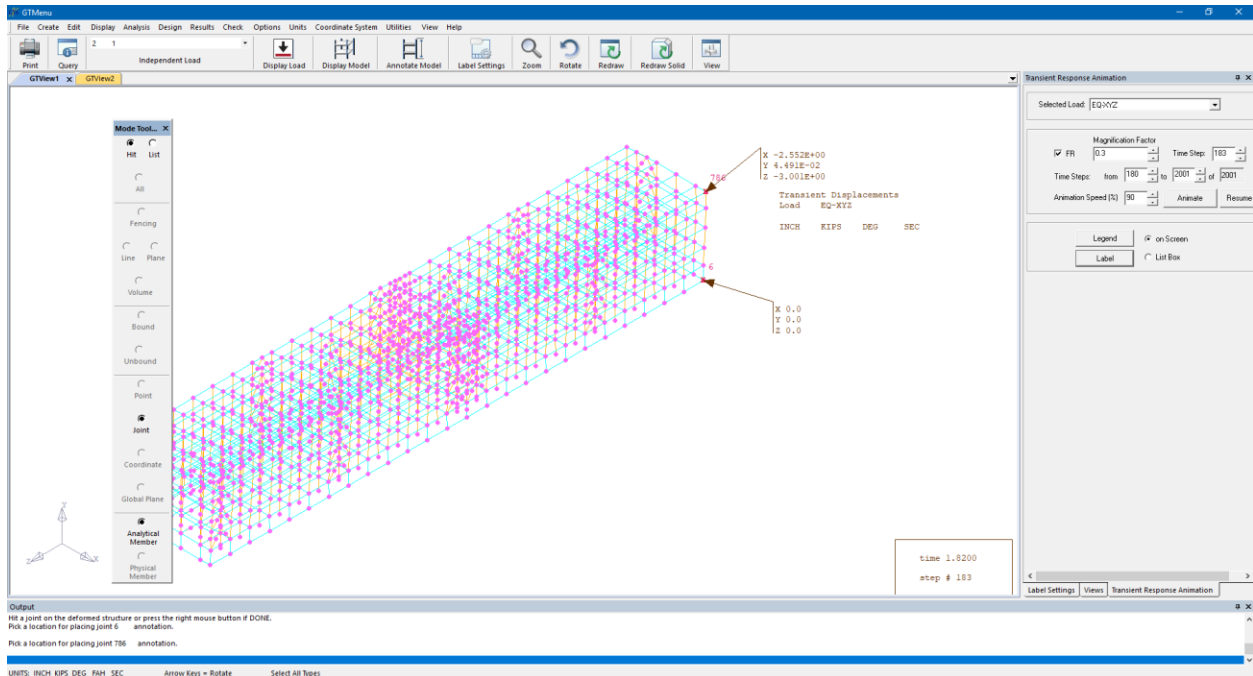


Figure 1: 2.55 in relative displacement at step 183 without base isolators.

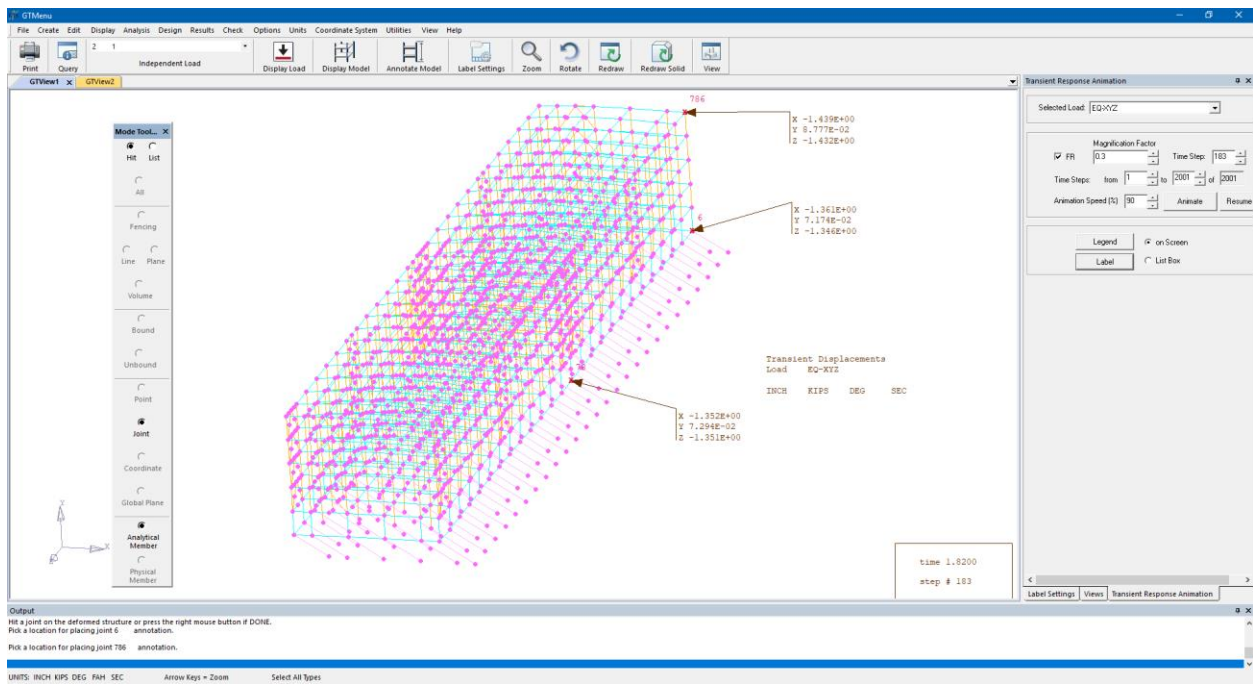


Figure 2: 0.079 in relative displacement at step 183 with base isolators.

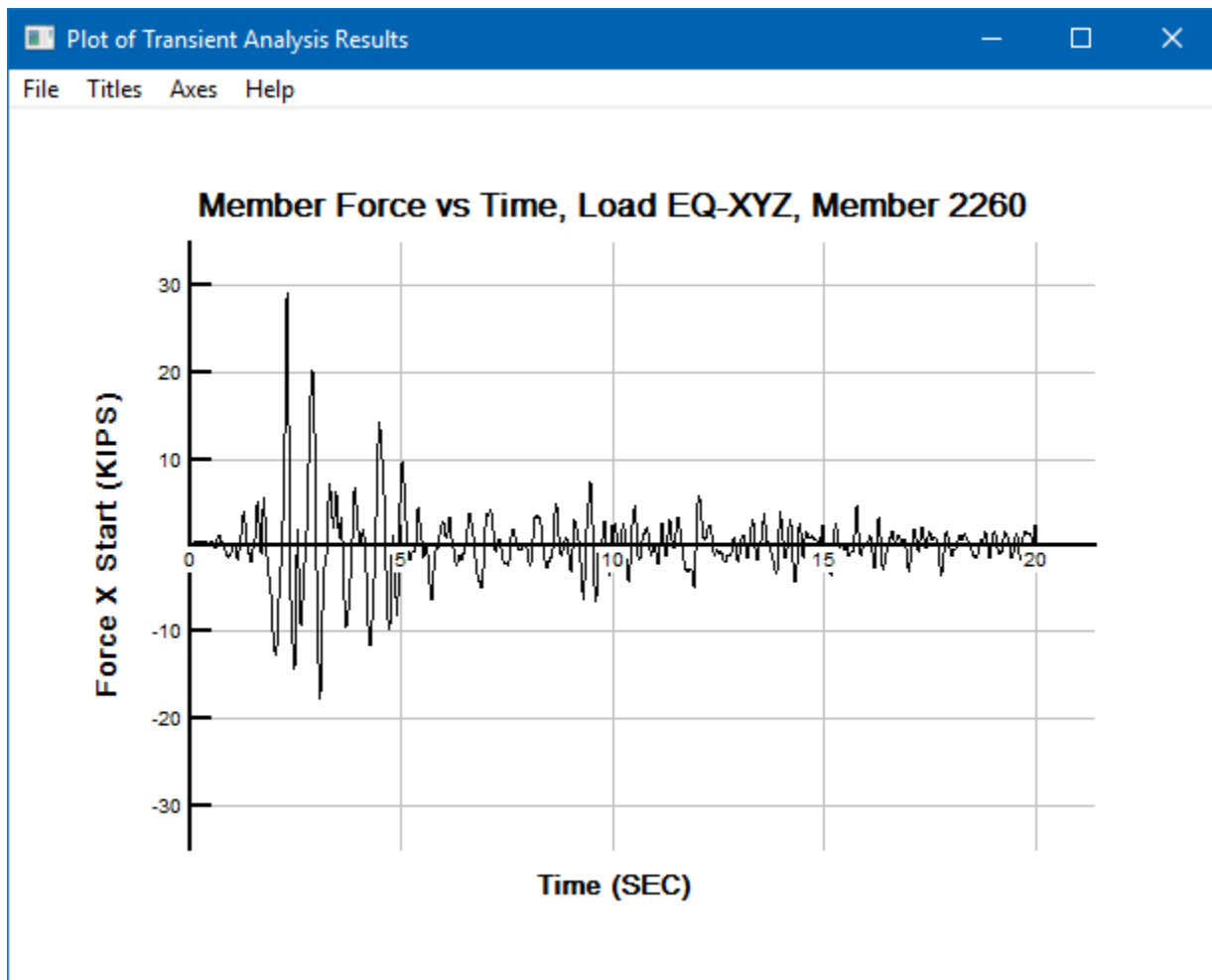


Figure 3: Axial force in member 2260 with base isolators.

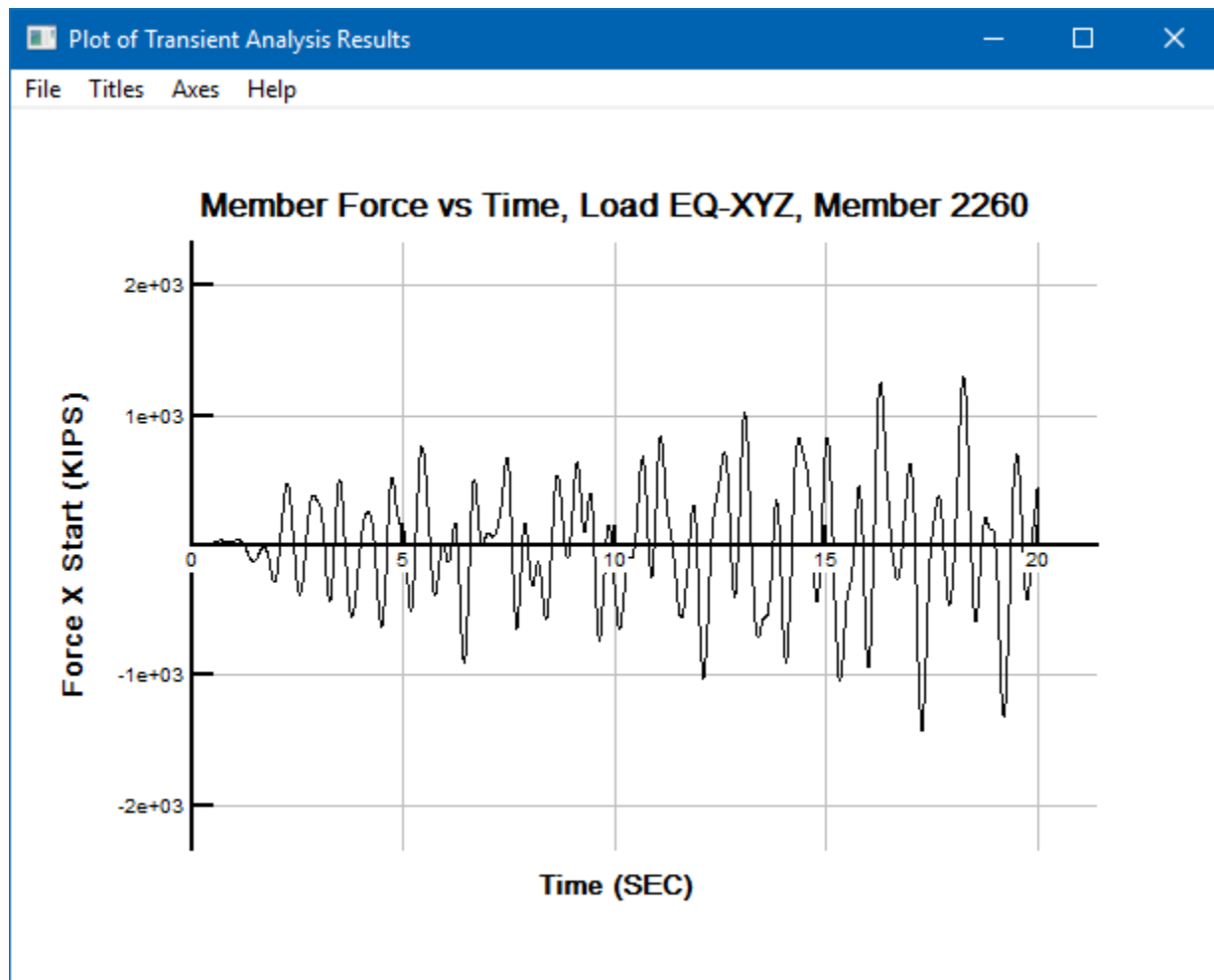


Figure 4: Axial force in member 2260 without base isolators.