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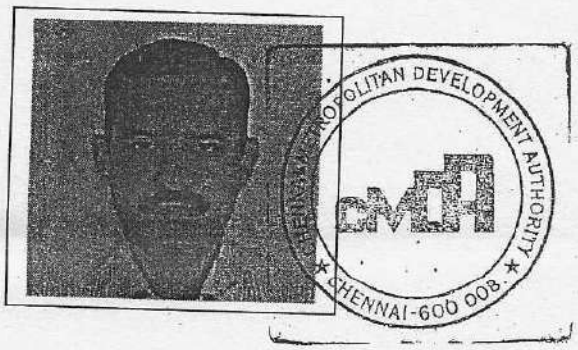
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
'ThalamuthuNatarajan Building', No.1, Gandhi Irwin Road,
Egmore, Chennai-600 008.

PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that the **Thiru. N. KANAGAVEL** has enrolled as **Registered Structural Engineer Grade-I (SE)** with Chennai Metropolitan Development Authority (CMDA) who has the qualification of **M.E.,(Structural Engg.)** and experience in the relevant field for **11 years**.

He has been given the Registration No.**SE/GR-I/2019/03/049** Renewed on **26.03.2024.** He shall be required to comply with the duties and responsibilities prescribed by the Government of Tamil Nadu in Part-V, "Registration of Professionals", Tamil Nadu Combined Development and Building Rules, 2019 approved vide G.O.(Ms) No.18 MAWS (MA1) Dept. dated 04.02.2019.

This Registration is valid upto **25.03.2029**.



26/3/24.

(A. MEGANATHAN)
Superintendent

N. KANAGAVEL M.E., M.B.A., MIE., FIV
Chartered Engineer, Structural Consultant and Approved Valuer

CA- 12, Tarangini Complex
Ambattur Industrial Estate, Chennai – 600 058

Mobile : 94440 61295
e – mail: kanagavelchennai@gmail.com

30.04.2025

STABILITY CERTIFICATE

1. The detailed engineering and structure design of the proposed building comprising of stilt + five floors "NEST ETERNIA" at Ottiyambakkam Main Road, Ottiyambakkam, Tambaram, Chengalpet – 600 130, S.No:259/2A1B, 259/2B1B, 259/2C1B, 259/2D1, 261/1B & 262/1B3 has been done by me/us based on the report of geotechnical investigation (soil test) done by Nagadi Consultants (P) Ltd., Report No. G(C)10013 Dated 27.01.2024 and considering the functional requirement of the building.

2. It is certified that among other factors, the proposed building has been designed to resist earthquake. I/We have checked various parameters and found that the proposed building would be safe.

3. I/We further certify that:

(i) The minimum grade of concrete is M30

(ii) The design and analysis has been done using the code of practice for plain and reinforced concrete as per IS 456:2000, design loads as per IS Codes No.IS 875-1987 and design of earthquake resistant structure as per IS Code No. IS 1893(part 1):2016

4. The building will be safe and sound when used for the purpose for which it is designed.

N. KANAGAVEL M.E, M.B.A., MIE., FIV
Registered Structural Engineer Grade-I
CMDA Reg.No. SE/GR-I/19/03/049
GCC Reg.No.RSE100022019
CA-12, Tarangani Complex,
Ambattur Industrial Estate
Mogappair West, Chennai-600 058

Stamp and Signature

Encl.: Structural Design Calculation

Design Specifications:

The proposed structure are to be designed for stilt + five floors and to be of framed structure to resist the seismic effect of zone III as per IS 1893 – 2016. The usage of the building is for residential purpose.

Soil:

As per Nagadi Consultants (P) Ltd., geo technical report G(C) 10013 dated 27.01.2025, the foundation recommendations are:

(i) type of foundation	=	Isolated / combined
(ii) Depth of foundation	=	3.50 m
(ii) SBC @ 3.50 m depth	=	120kn/m^2

Floor Heights Considered:

Foundation depth	=	3.50m
Car parking level	=	0.60m
Stilt and typical floors height	=	3.00m

Analysis and Design:

Analysis part is done using ETAB software and the designing part by manual calculations in accordance with IS 456 – 2000, IS 1893 - 2016 and SP – 16.

Materials:

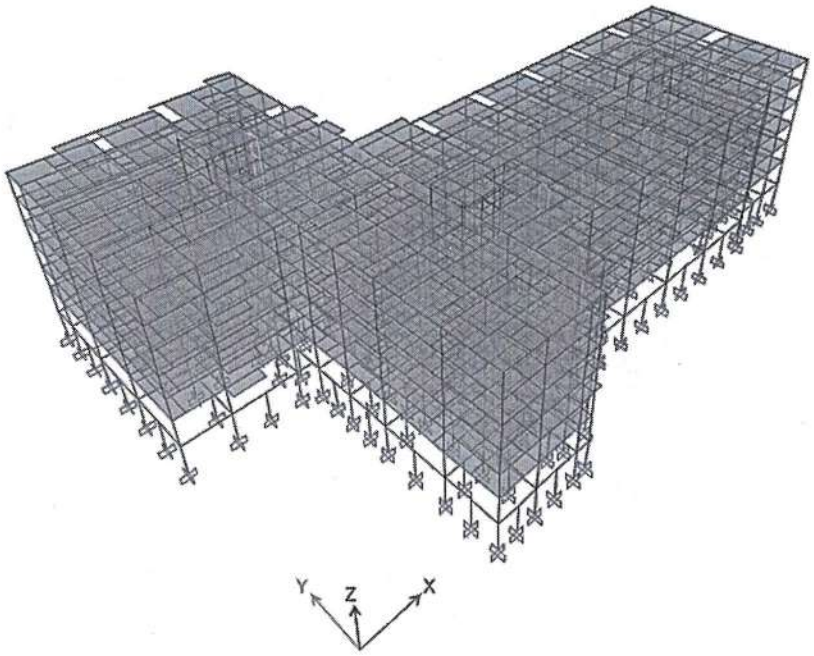
The following recommendations of materials are to be used

(i) Grade of concrete : M30 grade for all RCC members

(ii) Grade of steel : Fe 550 for all diameter

(iii) Potable quality of water to be used for all construction activities including curing.

ETABS®



User Report

Model File: Eternia-B- stilt+5 floors, Revision 0
16-Apr-25

1 Structure Data

This chapter provides model geometry information, including items such as story levels, point coordinates, and element connectivity.

1.1 Story Data

Table 1.1 - Story Definitions

Tower	Name	Height m	Master Story	Similar To	Splice Story	Color
T1	head room	2.5	No	None	No	Blue
T1	roof	3	No	None	No	Blue
T1	story5	3	No	story2	No	Blue
T1	story4	3	No	story2	No	Blue
T1	story3	3	No	story2	No	Blue
T1	story2	3	Yes	None	No	Green
T1	story1	3.6	No	story2	No	Cyan
T1	plinth beam	3.5	No	None	No	Red

2 Properties

This chapter provides property information for materials, frame sections, shell sections, and links.

2.1 Materials

Table 2.1 - Material Properties - General

Material	Type	SymType	Grade	Color	Notes
HYSD500	Rebar	Uniaxial	HYSD Grade 500	Green	
HYSD550	Rebar	Uniaxial	HYSD Grade 550	Red	
M30	Concrete	Isotropic	M30	Gray8Dark	

2.2 Frame Sections

Table 2.2 - Frame Section Property Definitions - Summary (Part 1 of 3)

Name	Material	Shape	Color	Area cm2	J cm4	I33 cm4	I22 cm4	As2 cm2	As3 cm2	S33Pos cm3
B230x125	M30	Concrete Rectangular	Green	287.5	9884.3	3743.5	12674	239.6	239.6	599
B230x380	M30	Concrete Rectangular	Red	874	96006	105171.3	38528.8	728.3	728.3	5535.3
B230x450	M30	Concrete Rectangular	Magenta	1035	124072.6	174656.3	45626.3	862.5	862.5	7762.5
B230x525	M30	Concrete Rectangular	Blue	1207.5	154336.3	277347.7	53230.6	1006.2	1006.2	10565.6
B230x600	M30	Concrete Rectangular	Red	1380	184679.1	414000	60835	1150	1150	13800
B230x675	M30	Concrete Rectangular	Blue	1552.5	215056.9	589464.8	68439.4	1293.7	1293.7	17465.6
B230x750	M30	Concrete Rectangular	Magenta	1725	245451.7	808593.8	76043.8	1437.5	1437.5	21562.5
C230x300	M30	Concrete Rectangular	Cyan	690	64595.3	51750	30417.5	575	575	3450
C230x450	M30	Concrete Rectangular	Yellow	1035	124072.6	174656.3	45626.3	862.5	862.5	7762.5
C230x525	M30	Concrete Rectangular	Gray8Dark	1207.5	154336.3	277347.7	53230.6	1006.2	1006.2	10565.6
C230x600	M30	Concrete Rectangular	Blue	1380	184679.1	414000	60835	1150	1150	13800
C300x525	M30	Concrete Rectangular	Blue	1575	303911.4	361757.8	118125	1312.5	1312.5	13781.3
C300x600	M30	Concrete Rectangular	Green	1800	370785.9	540000	135000	1500	1500	18000
C300x675	M30	Concrete Rectangular	Cyan	2025	437953.1	768867.2	151875	1687.5	1687.5	22781.3
C300x750	M30	Concrete Rectangular	Cyan	2250	505262.9	1054687.5	168750	1875	1875	28125
C380x750	M30	Concrete Rectangular	Red	2850	936326.1	1335937.5	342950	2375	2375	35625
ConcBm	M30	Concrete Rectangular	Green	1875	474572.9	390625	219726.6	1562.5	1562.5	15625
ConcCol	M30	Concrete Rectangular	Blue	1406.3	278503.4	164794.9	164794.9	1171.9	1171.9	8789.1
D230x230	M30	Concrete Rectangular	Magenta	529	39410.9	23320.1	23320.1	440.8	440.8	2027.8

2.3 Shell Sections

Table 2.3 - Area Section Property Definitions - Summary

Name	Type	Element Type	Material	Total Thickness mm	Deck Material	Deck Depth mm
Wall1	Wall	Shell-Thin	M30	230		
Wall2	Wall	Shell-Thin	M30	230		
Wall3	Wall	Shell-Thin	M30	230		
Wall4	Wall	Shell-Thin	M30	230		
Wall5	Wall	Shell-Thin	M30	230		
Wall6	Wall	Shell-Thin	M30	230		
Wall7	Wall	Shell-Thin	M30	230		

3 Loads

This chapter provides loading information as applied to the model.

3.1 Load Patterns

Table 3.1 - Load Pattern Definitions

Name	Is Auto Load	Type	Self Weight Multiplier	Auto Load
~LLRF	Yes	Other	0	
Dead	No	Dead	1	
Floor finish	No	Super Dead	0	
Live	No	Reducible Live	0	
roof live	No	Reducible Live	0	
sesmic - X	No	Seismic	0	IS 1893:2016
sesmic - Y	No	Seismic	0	IS 1893:2016
sunken filling	No	Super Dead	0	
wall load	No	Super Dead	0	

3.2 Auto Seismic Loading

IS 1893:2016 Auto Seismic Load Calculation

This calculation presents the automatically generated lateral seismic loads for load pattern sesmic - X according to IS 1893:2016, as calculated by ETABS.

Direction and Eccentricity

Direction = X

Structural Period

Period Calculation Method = User Specified

User Period $T = 0.19$ sec

Factors and Coefficients

Seismic Zone Factor, Z [IS Table 3] $Z = 0.16$

$R = 5$

Importance Factor, I [IS Table 8] $I = 1.2$

Seismic Response

Spectral Acceleration Coefficient, S_a/g [IS 6.4.2] $\frac{S_a}{g} = 2.5$ $\frac{S_a}{g} = 2.5$

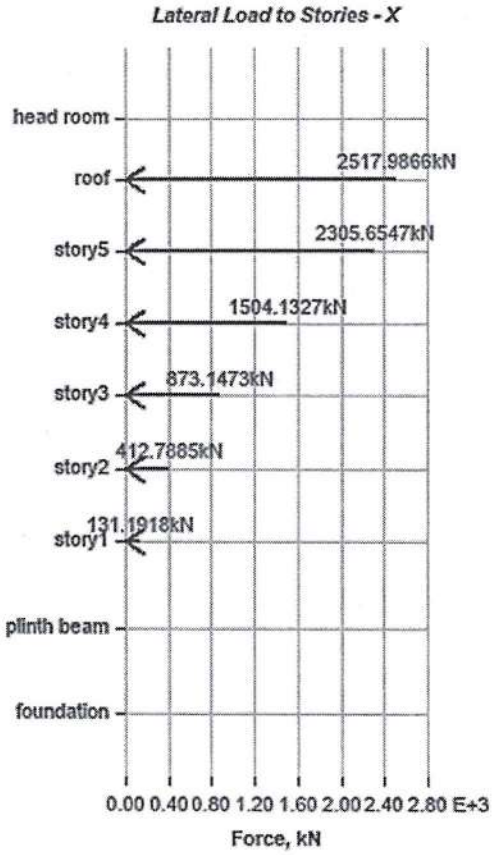
Equivalent Lateral Forces

Seismic Coefficient, A_h [IS 6.4.2] $A_h = \frac{ZI\frac{S_a}{g}}{2R}$

Calculated Base Shear

Direction	Period Used (sec)	W (kN)	V_b (kN)
X	0.19	161352.1191	7744.9017

Applied Story Forces



Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
head room	21.1	0	0
roof	18.6	2517.9866	0
story5	15.6	2305.6547	0
story4	12.6	1504.1327	0
story3	9.6	873.1473	0
story2	6.6	412.7885	0
story1	3.6	131.1918	0
plinth beam	0	0	0
foundation	-3.5	0	0

IS 1893:2016 Auto Seismic Load Calculation

This calculation presents the automatically generated lateral seismic loads for load pattern sesmic - Y according to IS 1893:2016, as calculated by ETABS.

Direction and Eccentricity

Direction = Y

Structural Period

Period Calculation Method = User Specified

User Period $T = 0.23$ sec

Factors and Coefficients

Seismic Zone Factor, Z [IS Table 3] $Z = 0.16$

$R = 5$

$I = 1.2$

Seismic Response

Spectral Acceleration Coefficient, S_a/g [IS 6.4.2] $\frac{S_a}{g} = 2.5$ $\frac{S_a}{g} = 2.5$

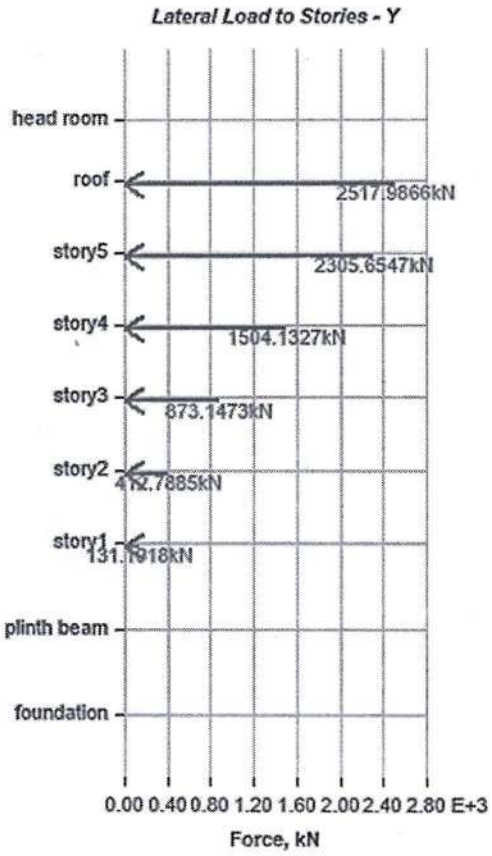
Equivalent Lateral Forces

Seismic Coefficient, A_h [IS 6.4.2] $A_h = \frac{ZI\frac{S_a}{g}}{2R}$

Calculated Base Shear

Direction	Period Used (sec)	W (kN)	V_b (kN)
Y	0.23	161352.1191	7744.9017

Applied Story Forces



Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
head room	21.1	0	0
roof	18.6	0	2517.9866
story5	15.6	0	2305.6547
story4	12.6	0	1504.1327
story3	9.6	0	873.1473
story2	6.6	0	412.7885
story1	3.6	0	131.1918
plinth beam	0	0	0
foundation	-3.5	0	0

3.3 Functions

3.3.1 Response Spectrum Functions

Table 3.4 - Functions - Response Spectrum - IS1893 2016

Name	Period sec	Value	Seismic Zone	I	Soil Type	R	Damping Ratio
RS	0	0.0192	III	1.2	II	5	0.05
RS	0.1	0.048					
RS	0.55	0.048					
RS	0.8	0.03264					
RS	1	0.026112					
RS	1.2	0.02176					
RS	1.4	0.018651					
RS	1.6	0.01632					
RS	1.8	0.014507					
RS	2	0.013056					
RS	2.5	0.010445					
RS	3	0.008704					
RS	3.5	0.007461					
RS	4	0.006528					
RS	4.5	0.006528					
RS	5	0.006528					
RS	5.5	0.006528					
RS	6	0.006528					
RS	6.5	0.006528					
RS	7	0.006528					
RS	7.5	0.006528					
RS	8	0.006528					
RS	8.5	0.006528					
RS	9	0.006528					
RS	9.5	0.006528					
RS	10	0.006528					

3.4 Load Combinations

Table 3.5 - Load Combination Definitions

Name	Type	Is Auto	Load Name	SF	Notes
0.9DL-1.5RSX	Linear Add	No	Dead	0.9	
0.9DL-1.5RSX			Floor finish	0.9	
0.9DL-1.5RSX			sunken filling	0.9	
0.9DL-1.5RSX			wall load	0.9	
0.9DL-1.5RSX			RSX	-1.5	
0.9DL-1.5RSY	Linear Add	No	Dead	0.9	
0.9DL-1.5RSY			Floor finish	0.9	
0.9DL-1.5RSY			sunken filling	0.9	
0.9DL-1.5RSY			wall load	0.9	
0.9DL-1.5RSY			RXY	-1.5	
0.9DL+1.5RSX	Linear Add	No	Dead	0.9	
0.9DL+1.5RSX			Floor finish	0.9	
0.9DL+1.5RSX			sunken filling	0.9	
0.9DL+1.5RSX			wall load	0.9	
0.9DL+1.5RSX			RSX	1.5	
0.9DL+1.5RSY	Linear Add	No	Dead	0.9	
0.9DL+1.5RSY			Floor finish	0.9	
0.9DL+1.5RSY			sunken filling	0.9	
0.9DL+1.5RSY			wall load	0.9	

Name	Type	Is Auto	Load Name	SF	Notes
0.9DL+1.5RSY			RXY	1.5	
1.2(DL+LL+EQX)	Linear Add	No	Dead	1.2	
1.2(DL+LL+EQX)			Live	1.2	
1.2(DL+LL+EQX)			Floor finish	1.2	
1.2(DL+LL+EQX)			sunken filling	1.2	
1.2(DL+LL+EQX)			wall load	1.2	
1.2(DL+LL+EQX)			sesmic - X	1.2	
1.2(DL+LL+EQX)			roof live	1.2	
1.2(DL+LL+EQY)	Linear Add	No	Dead	1.2	
1.2(DL+LL+EQY)			Live	1.2	
1.2(DL+LL+EQY)			Floor finish	1.2	
1.2(DL+LL+EQY)			sunken filling	1.2	
1.2(DL+LL+EQY)			wall load	1.2	
1.2(DL+LL+EQY)			sesmic - Y	1.2	
1.2(DL+LL+EQY)			roof live	1.2	
1.2(DL+LL+RSX)	Linear Add	No	Dead	1.2	
1.2(DL+LL+RSX)			Live	1.2	
1.2(DL+LL+RSX)			Floor finish	1.2	
1.2(DL+LL+RSX)			sunken filling	1.2	
1.2(DL+LL+RSX)			wall load	1.2	
1.2(DL+LL+RSX)			RSX	1.2	
1.2(DL+LL+RSX)			roof live	1.2	
1.2(DL+LL+RSY)	Linear Add	No	Dead	1.2	
1.2(DL+LL+RSY)			Live	1.2	
1.2(DL+LL+RSY)			Floor finish	1.2	
1.2(DL+LL+RSY)			sunken filling	1.2	
1.2(DL+LL+RSY)			wall load	1.2	
1.2(DL+LL+RSY)			RXY	1.2	
1.2(DL+LL+RSY)			roof live	1.2	
1.2(DL+LL-EQX)	Linear Add	No	Dead	1.2	
1.2(DL+LL-EQX)			Live	1.2	
1.2(DL+LL-EQX)			Floor finish	1.2	
1.2(DL+LL-EQX)			sunken filling	1.2	
1.2(DL+LL-EQX)			wall load	1.2	
1.2(DL+LL-EQX)			sesmic - X	-1.2	
1.2(DL+LL-EQX)			roof live	1.2	
1.2(DL+LL-EQY)	Linear Add	No	Dead	1.2	
1.2(DL+LL-EQY)			Live	1.2	
1.2(DL+LL-EQY)			Floor finish	1.2	
1.2(DL+LL-EQY)			sunken filling	1.2	
1.2(DL+LL-EQY)			wall load	1.2	
1.2(DL+LL-EQY)			sesmic - Y	-1.2	
1.2(DL+LL-EQY)			roof live	1.2	
1.2(DL+LL-RSX)	Linear Add	No	Dead	1.2	
1.2(DL+LL-RSX)			Live	1.2	
1.2(DL+LL-RSX)			Floor finish	1.2	
1.2(DL+LL-RSX)			sunken filling	1.2	
1.2(DL+LL-RSX)			wall load	1.2	
1.2(DL+LL-RSX)			RSX	-1.2	
1.2(DL+LL-RSX)			roof live	1.2	
1.2(DL+LL-RSY)	Linear Add	No	Dead	1.2	
1.2(DL+LL-RSY)			Live	1.2	
1.2(DL+LL-RSY)			Floor finish	1.2	
1.2(DL+LL-RSY)			sunken filling	1.2	
1.2(DL+LL-RSY)			wall load	1.2	

Name	Type	Is Auto	Load Name	SF	Notes
1.2(DL+LL-RSY)			RXY	-1.2	
1.2(DL+LL-RSY)			roof live	1.2	
1.5(DL+EQX)	Linear Add	No	Dead	1.5	
1.5(DL+EQX)			Floor finish	1.5	
1.5(DL+EQX)			sunken filling	1.5	
1.5(DL+EQX)			wall load	1.5	
1.5(DL+EQX)			sesmic - X	1.5	
1.5(DL+EQY)	Linear Add	No	Dead	1.5	
1.5(DL+EQY)			Floor finish	1.5	
1.5(DL+EQY)			sunken filling	1.5	
1.5(DL+EQY)			wall load	1.5	
1.5(DL+EQY)			sesmic - Y	1.5	
1.5(DL+LL)	Linear Add	No	Dead	1.5	
1.5(DL+LL)			Live	1.5	
1.5(DL+LL)			Floor finish	1.5	
1.5(DL+LL)			sunken filling	1.5	
1.5(DL+LL)			wall load	1.5	
1.5(DL+LL)			roof live	1.5	
1.5(DL+RSX)	Linear Add	No	Dead	1.5	
1.5(DL+RSX)			Floor finish	1.5	
1.5(DL+RSX)			sunken filling	1.5	
1.5(DL+RSX)			wall load	1.5	
1.5(DL+RSX)			RSX	1.5	
1.5(DL+RSY)	Linear Add	No	Dead	1.5	
1.5(DL+RSY)			Floor finish	1.5	
1.5(DL+RSY)			sunken filling	1.5	
1.5(DL+RSY)			wall load	1.5	
1.5(DL+RSY)			RXY	1.5	
1.5(DL-EQX)	Linear Add	No	Dead	1.5	
1.5(DL-EQX)			Floor finish	1.5	
1.5(DL-EQX)			sunken filling	1.5	
1.5(DL-EQX)			wall load	1.5	
1.5(DL-EQX)			sesmic - X	-1.5	
1.5(DL-EQY)	Linear Add	No	Dead	1.5	
1.5(DL-EQY)			Floor finish	1.5	
1.5(DL-EQY)			sunken filling	1.5	
1.5(DL-EQY)			wall load	1.5	
1.5(DL-EQY)			sesmic - Y	-1.5	
1.5(DL-RSX)	Linear Add	No	Dead	1.5	
1.5(DL-RSX)			Floor finish	1.5	
1.5(DL-RSX)			sunken filling	1.5	
1.5(DL-RSX)			wall load	1.5	
1.5(DL-RSX)			RSX	-1.5	
1.5(DL-RSY)	Linear Add	No	Dead	1.5	
1.5(DL-RSY)			Floor finish	1.5	
1.5(DL-RSY)			sunken filling	1.5	
1.5(DL-RSY)			wall load	1.5	
1.5(DL-RSY)			RXY	-1.5	
09DL-1.5EQX	Linear Add	No	Dead	0.9	
09DL-1.5EQX			Floor finish	0.9	
09DL-1.5EQX			sunken filling	0.9	
09DL-1.5EQX			wall load	0.9	
09DL-1.5EQX			sesmic - X	-1.5	
09DL-1.5EQY	Linear Add	No	Dead	0.9	
09DL-1.5EQY			Floor finish	0.9	

Name	Type	Is Auto	Load Name	SF	Notes
09DL-1.5EQY			sunken filling	0.9	
09DL-1.5EQY			wall load	0.9	
09DL-1.5EQY			sesmic - Y	-1.5	
09DL+1.5EQX	Linear Add	No	Dead	0.9	
09DL+1.5EQX			Floor finish	0.9	
09DL+1.5EQX			sunken filling	0.9	
09DL+1.5EQX			wall load	0.9	
09DL+1.5EQX			sesmic - X	1.5	
09DL+1.5EQY	Linear Add	No	Dead	0.9	
09DL+1.5EQY			Floor finish	0.9	
09DL+1.5EQY			sunken filling	0.9	
09DL+1.5EQY			wall load	0.9	
09DL+1.5EQY			sesmic - Y	1.5	
(DL+LL)	Linear Add	No	Dead	1	
(DL+LL)			Live	1	
(DL+LL)			Floor finish	1	
(DL+LL)			sunken filling	1	
(DL+LL)			wall load	1	
(DL+LL)			roof live	1	
DL+0.8LL-0.8EQX	Linear Add	No	Dead	1	
DL+0.8LL-0.8EQX			Floor finish	1	
DL+0.8LL-0.8EQX			sunken filling	1	
DL+0.8LL-0.8EQX			wall load	1	
DL+0.8LL-0.8EQX			Live	0.8	
DL+0.8LL-0.8EQX			sesmic - X	-0.8	
DL+0.8LL-0.8EQX			roof live	0.8	
DL+0.8LL-0.8EQY	Linear Add	No	Dead	1	
DL+0.8LL-0.8EQY			Floor finish	1	
DL+0.8LL-0.8EQY			sunken filling	1	
DL+0.8LL-0.8EQY			wall load	1	
DL+0.8LL-0.8EQY			Live	0.8	
DL+0.8LL-0.8EQY			sesmic - Y	-0.8	
DL+0.8LL-0.8EQY			roof live	0.8	
DL+0.8LL-0.8RSX	Linear Add	No	Dead	1	
DL+0.8LL-0.8RSX			Floor finish	1	
DL+0.8LL-0.8RSX			sunken filling	1	
DL+0.8LL-0.8RSX			wall load	1	
DL+0.8LL-0.8RSX			Live	0.8	
DL+0.8LL-0.8RSX			RSX	-0.8	
DL+0.8LL-0.8RSX			roof live	0.8	
DL+0.8LL-0.8RSY	Linear Add	No	Dead	1	
DL+0.8LL-0.8RSY			Floor finish	1	
DL+0.8LL-0.8RSY			sunken filling	1	
DL+0.8LL-0.8RSY			wall load	1	
DL+0.8LL-0.8RSY			Live	0.8	
DL+0.8LL-0.8RSY			RXY	-0.8	
DL+0.8LL-0.8RSY			roof live	0.8	
DL+0.8LL+0.8EQX	Linear Add	No	Dead	1	
DL+0.8LL+0.8EQX			Floor finish	1	
DL+0.8LL+0.8EQX			sunken filling	1	
DL+0.8LL+0.8EQX			wall load	1	
DL+0.8LL+0.8EQX			Live	0.8	
DL+0.8LL+0.8EQX			sesmic - X	0.8	
DL+0.8LL+0.8EQX			roof live	0.8	
DL+0.8LL+0.8EQY	Linear Add	No	Dead	1	

Name	Type	Is Auto	Load Name	SF	Notes
DL+0.8LL+0.8EQY			Floor finish	1	
DL+0.8LL+0.8EQY			sunken filling	1	
DL+0.8LL+0.8EQY			wall load	1	
DL+0.8LL+0.8EQY			Live	0.8	
DL+0.8LL+0.8EQY			sesmic - Y	0.8	
DL+0.8LL+0.8EQY			roof live	0.8	
DL+0.8LL+0.8RSX	Linear Add	No	Dead	1	
DL+0.8LL+0.8RSX			Floor finish	1	
DL+0.8LL+0.8RSX			sunken filling	1	
DL+0.8LL+0.8RSX			wall load	1	
DL+0.8LL+0.8RSX			Live	0.8	
DL+0.8LL+0.8RSX			sesmic - Y	0.8	
DL+0.8LL+0.8RSX			roof live	0.8	
DL+0.8LL+0.8RSY	Linear Add	No	Dead	1	
DL+0.8LL+0.8RSY			Floor finish	1	
DL+0.8LL+0.8RSY			sunken filling	1	
DL+0.8LL+0.8RSY			wall load	1	
DL+0.8LL+0.8RSY			Live	0.8	
DL+0.8LL+0.8RSY			RXY	0.8	
DL+0.8LL+0.8RSY			roof live	0.8	
DL+EQX	Linear Add	No	Dead	1	
DL+EQX			Floor finish	1	
DL+EQX			sunken filling	1	
DL+EQX			wall load	1	
DL+EQX			sesmic - X	1	
DL+EQY	Linear Add	No	Dead	1	
DL+EQY			Floor finish	1	
DL+EQY			sunken filling	1	
DL+EQY			wall load	1	
DL+EQY			sesmic - Y	1	
DL+RSX	Linear Add	No	Dead	1	
DL+RSX			Floor finish	1	
DL+RSX			sunken filling	1	
DL+RSX			wall load	1	
DL+RSX			RSX	1	
DL+RSY	Linear Add	No	Dead	1	
DL+RSY			Floor finish	1	
DL+RSY			sunken filling	1	
DL+RSY			wall load	1	
DL+RSY			RXY	1	
DL-EQX	Linear Add	No	Dead	1	
DL-EQX			Floor finish	1	
DL-EQX			sunken filling	1	
DL-EQX			wall load	1	
DL-EQX			sesmic - X	-1	
DL-EQY	Linear Add	No	Dead	1	
DL-EQY			Floor finish	1	
DL-EQY			sunken filling	1	
DL-EQY			wall load	1	
DL-EQY			sesmic - Y	-1	
DL-RSX	Linear Add	No	Dead	1	
DL-RSX			Floor finish	1	
DL-RSX			sunken filling	1	
DL-RSX			wall load	1	
DL-RSX			RSX	-1	

Name	Type	Is Auto	Load Name	SF	Notes
DL-RSY	Linear Add	No	Dead	1	
DL-RSY			Floor finish	1	
DL-RSY			sunken filling	1	
DL-RSY			wall load	1	
DL-RSY			RXY	-1	
seismic weight	Linear Add	No	Dead	1	
seismic weight			Live	0.25	
seismic weight			Floor finish	1	
seismic weight			wall load	1	
seismic weight			sunken filling	1	
ultimate envelope	Envelope	No	1.2(DL+LL+EQX)	1	
ultimate envelope			1.2(DL+LL-EQX)	1	
ultimate envelope			1.2(DL+LL+RSX)	1	
ultimate envelope			1.2(DL+LL-RSX)	1	
ultimate envelope			1.2(DL+LL+EQY)	1	
ultimate envelope			1.2(DL+LL-EQY)	1	
ultimate envelope			1.2(DL+LL+RSY)	1	
ultimate envelope			1.2(DL+LL-RSY)	1	
ultimate envelope			1.5(DL+EQX)	1	
ultimate envelope			1.5(DL+EQY)	1	
ultimate envelope			1.5(DL+RSX)	1	
ultimate envelope			1.5(DL+RSY)	1	
ultimate envelope			1.5(DL-EQX)	1	
ultimate envelope			1.5(DL-EQY)	1	
ultimate envelope			1.5(DL-RSX)	1	
ultimate envelope			1.5(DL-RSY)	1	
ultimate envelope			1.5(DL+LL)	1	
ultimate envelope			09DL+1.5EQX	1	
ultimate envelope			09DL-1.5EQX	1	
ultimate envelope			0.9DL+1.5RSX	1	
ultimate envelope			0.9DL-1.5RSX	1	
ultimate envelope			09DL+1.5EQY	1	
ultimate envelope			09DL-1.5EQY	1	
ultimate envelope			0.9DL+1.5RSY	1	
ultimate envelope			0.9DL-1.5RSY	1	

4 Analysis Results

This chapter provides analysis results.

4.1 Story Results

Table 4.1 - Story Drifts

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
head room	Dead	LinStatic		X	9.5E-05	13	13.33	42.41	21.1
head room	Dead	LinStatic		Y	7.4E-05	636	63.28	20.8	21.1
head room	Live	LinStatic		X	2.3E-05	13	13.33	42.41	21.1
head room	Floor finish	LinStatic		X	4.3E-05	13	13.33	42.41	21.1
head room	sunken filling	LinStatic		X	1E-06	154	29.95	14.17	21.1
head room	sunken filling	LinStatic		Y	2E-06	636	63.28	20.8	21.1
head room	wall load	LinStatic		X	1.3E-05	17	16.42	41.95	21.1
head room	wall load	LinStatic		Y	1.4E-05	636	63.28	20.8	21.1
head room	sesmic - X	LinStatic		X	0.000472	13	13.33	42.41	21.1
head room	sesmic - Y	LinStatic		X	0.000109	17	16.42	41.95	21.1

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
head room	sesmic - Y	LinStatic		Y	0.000645	626	13.33	37.11	21.1
head room	RSX	LinRespSpec	Max	X	0.000452	13	13.33	42.41	21.1
head room	RXY	LinRespSpec	Max	X	0.000185	13	13.33	42.41	21.1
head room	RXY	LinRespSpec	Max	Y	0.00059	636	63.28	20.8	21.1
head room	roof live	LinStatic		X	9.6E-05	17	16.42	41.95	21.1
head room	roof live	LinStatic		Y	7.7E-05	636	63.28	20.8	21.1
head room	(DL+LL)	Combination		X	0.000266	17	16.42	41.95	21.1
head room	(DL+LL)	Combination		Y	0.000197	636	63.28	20.8	21.1
head room	09DL+1.5EQX	Combination		X	0.000606	154	29.95	14.17	21.1
head room	09DL-1.5EQX	Combination		X	0.000842	13	13.33	42.41	21.1
head room	0.9DL+1.5RSX	Combination	Max	X	0.000598	154	29.95	14.17	21.1
head room	0.9DL+1.5RSX	Combination	Min	X	0.000811	13	13.33	42.41	21.1
head room	0.9DL-1.5RSX	Combination	Max	X	0.000598	154	29.95	14.17	21.1
head room	0.9DL-1.5RSX	Combination	Min	X	0.000811	13	13.33	42.41	21.1
head room	09DL-1.5EQY	Combination		X	0.000296	17	16.42	41.95	21.1
head room	09DL-1.5EQY	Combination		Y	0.001033	13	13.33	42.41	21.1
head room	09DL+1.5EQY	Combination		Y	0.000902	626	13.33	37.11	21.1
head room	0.9DL+1.5RSY	Combination	Max	Y	0.000987	636	63.28	20.8	21.1
head room	0.9DL+1.5RSY	Combination	Min	X	0.000412	13	13.33	42.41	21.1
head room	0.9DL+1.5RSY	Combination	Min	Y	0.000882	13	13.33	42.41	21.1
head room	0.9DL-1.5RSY	Combination	Max	Y	0.000987	636	63.28	20.8	21.1
head room	0.9DL-1.5RSY	Combination	Min	X	0.000412	13	13.33	42.41	21.1
head room	0.9DL-1.5RSY	Combination	Min	Y	0.000882	13	13.33	42.41	21.1
head room	1.2(DL+LL+EQX)	Combination		X	0.000394	154	29.95	14.17	21.1
head room	1.2(DL+LL+EQX)	Combination		Y	0.000229	636	63.28	20.8	21.1
head room	1.2(DL+LL-EQX)	Combination		X	0.000884	13	13.33	42.41	21.1
head room	1.2(DL+LL+RSX)	Combination	Max	X	0.000389	155	27.51	14.17	21.1
head room	1.2(DL+LL+RSX)	Combination	Max	Y	0.000241	636	63.28	20.8	21.1
head room	1.2(DL+LL+RSX)	Combination	Min	X	0.00086	13	13.33	42.41	21.1
head room	1.2(DL+LL-RSX)	Combination	Max	X	0.000389	155	27.51	14.17	21.1
head room	1.2(DL+LL-RSX)	Combination	Max	Y	0.000241	636	63.28	20.8	21.1
head room	1.2(DL+LL-RSX)	Combination	Min	X	0.00086	13	13.33	42.41	21.1
head room	1.2(DL+LL+EQY)	Combination		X	0.000189	13	13.33	42.41	21.1
head room	1.2(DL+LL+EQY)	Combination		Y	0.000803	636	63.28	20.8	21.1
head room	1.2(DL+LL-EQY)	Combination		X	0.00045	17	16.42	41.95	21.1
head room	1.2(DL+LL-EQY)	Combination		Y	0.000895	13	13.33	42.41	21.1
head room	1.2(DL+LL+RSY)	Combination	Max	Y	0.000945	636	63.28	20.8	21.1
head room	1.2(DL+LL+RSY)	Combination	Min	X	0.00054	13	13.33	42.41	21.1
head room	1.2(DL+LL+RSY)	Combination	Min	Y	0.000774	13	13.33	42.41	21.1
head room	1.2(DL+LL-RSY)	Combination	Max	Y	0.000945	636	63.28	20.8	21.1
head room	1.2(DL+LL-RSY)	Combination	Min	X	0.00054	13	13.33	42.41	21.1
head room	1.2(DL+LL-RSY)	Combination	Min	Y	0.000774	13	13.33	42.41	21.1
head room	1.5(DL+EQX)	Combination		X	0.000578	154	29.95	14.17	21.1
head room	1.5(DL+EQX)	Combination		Y	0.00016	58	63.28	16.54	21.1
head room	1.5(DL+EQY)	Combination		Y	0.000877	636	63.28	20.8	21.1
head room	1.5(DL+RSX)	Combination	Max	X	0.000571	155	27.51	14.17	21.1
head room	1.5(DL+RSX)	Combination	Max	Y	0.000174	636	63.28	20.8	21.1
head room	1.5(DL+RSX)	Combination	Min	X	0.000901	13	13.33	42.41	21.1
head room	1.5(DL+RSY)	Combination	Max	Y	0.001054	636	63.28	20.8	21.1
head room	1.5(DL+RSY)	Combination	Min	X	0.000501	13	13.33	42.41	21.1
head room	1.5(DL+RSY)	Combination	Min	Y	0.000926	13	13.33	42.41	21.1
head room	1.5(DL-EQX)	Combination		X	0.000931	13	13.33	42.41	21.1
head room	1.5(DL-EQY)	Combination		X	0.000385	13	13.33	42.41	21.1
head room	1.5(DL-EQY)	Combination		Y	0.001077	13	13.33	42.41	21.1

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
head room	1.5(DL-RSX)	Combination	Max	X	0.000571	155	27.51	14.17	21.1
head room	1.5(DL-RSX)	Combination	Max	Y	0.000174	636	63.28	20.8	21.1
head room	1.5(DL-RSX)	Combination	Min	X	0.000901	13	13.33	42.41	21.1
head room	1.5(DL-RSY)	Combination	Max	Y	0.001054	636	63.28	20.8	21.1
head room	1.5(DL-RSY)	Combination	Min	X	0.000501	13	13.33	42.41	21.1
head room	1.5(DL-RSY)	Combination	Min	Y	0.000926	13	13.33	42.41	21.1
head room	DL+0.8LL+0.8EQX	Combination		X	0.000253	154	29.95	14.17	21.1
head room	DL+0.8LL+0.8EQX	Combination		Y	0.000176	636	63.28	20.8	21.1
head room	DL+0.8LL+0.8EQY	Combination		X	0.000156	13	13.33	42.41	21.1
head room	DL+0.8LL+0.8EQY	Combination		Y	0.000558	636	63.28	20.8	21.1
head room	DL+0.8LL+0.8RSX	Combination		X	0.000156	13	13.33	42.41	21.1
head room	DL+0.8LL+0.8RSX	Combination		Y	0.000558	636	63.28	20.8	21.1
head room	DL+0.8LL-0.8EQX	Combination		X	0.000619	13	13.33	42.41	21.1
head room	DL+0.8LL-0.8EQY	Combination		X	0.000329	17	16.42	41.95	21.1
head room	DL+0.8LL-0.8EQY	Combination		Y	0.000612	13	13.33	42.41	21.1
head room	DL+0.8LL-0.8RSX	Combination	Max	X	0.00025	155	27.51	14.17	21.1
head room	DL+0.8LL-0.8RSX	Combination	Max	Y	0.000183	636	63.28	20.8	21.1
head room	DL+0.8LL-0.8RSX	Combination	Min	X	0.000603	13	13.33	42.41	21.1
head room	DL+0.8LL+0.8RSY	Combination	Max	X	0.000108	118	18.97	36.99	21.1
head room	DL+0.8LL+0.8RSY	Combination	Max	Y	0.000652	636	63.28	20.8	21.1
head room	DL+0.8LL+0.8RSY	Combination	Min	X	0.00039	13	13.33	42.41	21.1
head room	DL+0.8LL+0.8RSY	Combination	Min	Y	0.000531	13	13.33	42.41	21.1
head room	DL+0.8LL-0.8RSY	Combination	Max	X	0.000108	118	18.97	36.99	21.1
head room	DL+0.8LL-0.8RSY	Combination	Max	Y	0.000652	636	63.28	20.8	21.1
head room	DL+0.8LL-0.8RSY	Combination	Min	X	0.00039	13	13.33	42.41	21.1
head room	DL+0.8LL-0.8RSY	Combination	Min	Y	0.000531	13	13.33	42.41	21.1
head room	DL+EQX	Combination		X	0.000386	154	29.95	14.17	21.1
head room	DL+EQX	Combination		Y	0.000107	636	63.28	20.8	21.1
head room	DL+EQY	Combination		Y	0.000585	636	63.28	20.8	21.1
head room	DL+RSX	Combination	Max	X	0.000381	155	27.51	14.17	21.1
head room	DL+RSX	Combination	Max	Y	0.000116	636	63.28	20.8	21.1
head room	DL+RSX	Combination	Min	X	0.0006	13	13.33	42.41	21.1
head room	DL+RSY	Combination	Max	Y	0.000703	636	63.28	20.8	21.1
head room	DL+RSY	Combination	Min	X	0.000334	13	13.33	42.41	21.1
head room	DL+RSY	Combination	Min	Y	0.000618	13	13.33	42.41	21.1
head room	DL-EQX	Combination		X	0.000621	13	13.33	42.41	21.1
head room	DL-EQY	Combination		X	0.000256	13	13.33	42.41	21.1
head room	DL-EQY	Combination		Y	0.000718	13	13.33	42.41	21.1
head room	DL-RSX	Combination	Max	X	0.000381	155	27.51	14.17	21.1
head room	DL-RSX	Combination	Max	Y	0.000116	636	63.28	20.8	21.1
head room	DL-RSX	Combination	Min	X	0.0006	13	13.33	42.41	21.1
head room	DL-RSY	Combination	Max	Y	0.000703	636	63.28	20.8	21.1
head room	DL-RSY	Combination	Min	X	0.000334	13	13.33	42.41	21.1
head room	DL-RSY	Combination	Min	Y	0.000618	13	13.33	42.41	21.1
head room	1.5(DL+LL)	Combination		X	0.000399	17	16.42	41.95	21.1
head room	1.5(DL+LL)	Combination		Y	0.000296	636	63.28	20.8	21.1
head room	ultimate envelope	Combination	Max	X	0.000606	154	29.95	14.17	21.1
head room	ultimate envelope	Combination	Max	Y	0.001054	636	63.28	20.8	21.1
head room	ultimate envelope	Combination	Min	X	0.000931	13	13.33	42.41	21.1
head room	ultimate envelope	Combination	Min	Y	0.001077	13	13.33	42.41	21.1
head room	seismic weight	Combination		X	0.000155	13	13.33	42.41	21.1
head room	seismic weight	Combination		Y	0.000114	636	63.28	20.8	21.1
roof	Dead	LinStatic		X	3.4E-05	2	24.04	54.86	18.6
roof	Dead	LinStatic		Y	5.8E-05	34	0	26.48	18.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
roof	Live	LinStatic		X	1.3E-05	2	24.04	54.86	18.6
roof	Live	LinStatic		Y	1.7E-05	34	0	26.48	18.6
roof	Floor finish	LinStatic		X	1.8E-05	2	24.04	54.86	18.6
roof	Floor finish	LinStatic		Y	2.7E-05	34	0	26.48	18.6
roof	sunken filling	LinStatic		X	1E-06	87	27.51	0	18.6
roof	sunken filling	LinStatic		Y	3E-06	44	79.17	12.53	18.6
roof	wall load	LinStatic		X	3.2E-05	87	27.51	0	18.6
roof	wall load	LinStatic		Y	2.4E-05	44	79.17	12.53	18.6
roof	sesmic - X	LinStatic		X	0.000974	2	24.04	54.86	18.6
roof	sesmic - Y	LinStatic		Y	0.000955	34	0	26.48	18.6
roof	RSX	LinRespSpec	Max	X	0.000667	2	24.04	54.86	18.6
roof	RXY	LinRespSpec	Max	X	0.000352	105	16.42	55.02	18.6
roof	RXY	LinRespSpec	Max	Y	0.000823	44	79.17	12.53	18.6
roof	roof live	LinStatic		X	1.4E-05	2	24.04	54.86	18.6
roof	roof live	LinStatic		Y	9E-06	44	79.17	12.53	18.6
roof	(DL+LL)	Combination		X	7.1E-05	2	24.04	54.86	18.6
roof	(DL+LL)	Combination		Y	0.000118	34	0	26.48	18.6
roof	09DL+1.5EQX	Combination		X	0.001481	87	27.51	0	18.6
roof	09DL-1.5EQX	Combination		X	0.001501	2	24.04	54.86	18.6
roof	0.9DL+1.5RSX	Combination	Max	X	0.001017	87	27.51	0	18.6
roof	0.9DL+1.5RSX	Combination	Min	X	0.00104	2	24.04	54.86	18.6
roof	0.9DL-1.5RSX	Combination	Max	X	0.001017	87	27.51	0	18.6
roof	0.9DL-1.5RSX	Combination	Min	X	0.00104	2	24.04	54.86	18.6
roof	09DL-1.5EQY	Combination		Y	0.001517	34	0	26.48	18.6
roof	09DL+1.5EQY	Combination		Y	0.001347	34	0	26.48	18.6
roof	0.9DL+1.5RSY	Combination	Max	X	0.000511	87	27.51	0	18.6
roof	0.9DL+1.5RSY	Combination	Max	Y	0.001283	44	79.17	12.53	18.6
roof	0.9DL+1.5RSY	Combination	Min	X	0.000567	105	16.42	55.02	18.6
roof	0.9DL+1.5RSY	Combination	Min	Y	0.001201	34	0	26.48	18.6
roof	0.9DL-1.5RSY	Combination	Max	X	0.000511	87	27.51	0	18.6
roof	0.9DL-1.5RSY	Combination	Max	Y	0.001283	44	79.17	12.53	18.6
roof	0.9DL-1.5RSY	Combination	Min	X	0.000567	105	16.42	55.02	18.6
roof	0.9DL-1.5RSY	Combination	Min	Y	0.001201	34	0	26.48	18.6
roof	1.2(DL+LL+EQX)	Combination		X	0.001209	87	27.51	0	18.6
roof	1.2(DL+LL-EQX)	Combination		X	0.001255	2	24.04	54.86	18.6
roof	1.2(DL+LL+RSX)	Combination	Max	X	0.000837	87	27.51	0	18.6
roof	1.2(DL+LL+RSX)	Combination	Min	X	0.000886	2	24.04	54.86	18.6
roof	1.2(DL+LL-RSX)	Combination	Max	X	0.000837	87	27.51	0	18.6
roof	1.2(DL+LL-RSX)	Combination	Min	X	0.000886	2	24.04	54.86	18.6
roof	1.2(DL+LL+EQY)	Combination		Y	0.001021	85	30.94	2.77	18.6
roof	1.2(DL+LL-EQY)	Combination		Y	0.001288	34	0	26.48	18.6
roof	1.2(DL+LL+RSY)	Combination	Max	X	0.000433	87	27.51	0	18.6
roof	1.2(DL+LL+RSY)	Combination	Max	Y	0.001065	44	79.17	12.53	18.6
roof	1.2(DL+LL+RSY)	Combination	Min	X	0.000507	105	16.42	55.02	18.6
roof	1.2(DL+LL+RSY)	Combination	Min	Y	0.001035	34	0	26.48	18.6
roof	1.2(DL+LL-RSY)	Combination	Max	X	0.000433	87	27.51	0	18.6
roof	1.2(DL+LL-RSY)	Combination	Max	Y	0.001065	44	79.17	12.53	18.6
roof	1.2(DL+LL-RSY)	Combination	Min	X	0.000507	105	16.42	55.02	18.6
roof	1.2(DL+LL-RSY)	Combination	Min	Y	0.001035	34	0	26.48	18.6
roof	1.5(DL+EQX)	Combination		X	0.001516	87	27.51	0	18.6
roof	1.5(DL+EQY)	Combination		Y	0.00129	34	0	26.48	18.6
roof	1.5(DL+RSX)	Combination	Max	X	0.001052	87	27.51	0	18.6
roof	1.5(DL+RSX)	Combination	Min	X	0.001066	2	24.04	54.86	18.6
roof	1.5(DL+RSY)	Combination	Max	X	0.000546	87	27.51	0	18.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
roof	1.5(DL+RSY)	Combination	Max	Y	0.001315	44	79.17	12.53	18.6
roof	1.5(DL+RSY)	Combination	Min	X	0.000593	105	16.42	55.02	18.6
roof	1.5(DL+RSY)	Combination	Min	Y	0.001258	34	0	26.48	18.6
roof	1.5(DL-EQX)	Combination		X	0.001528	2	24.04	54.86	18.6
roof	1.5(DL-EQY)	Combination		Y	0.001574	34	0	26.48	18.6
roof	1.5(DL-RSX)	Combination	Max	X	0.001052	87	27.51	0	18.6
roof	1.5(DL-RSX)	Combination	Min	X	0.001066	2	24.04	54.86	18.6
roof	1.5(DL-RSY)	Combination	Max	X	0.000546	87	27.51	0	18.6
roof	1.5(DL-RSY)	Combination	Max	Y	0.001315	44	79.17	12.53	18.6
roof	1.5(DL-RSY)	Combination	Min	X	0.000593	105	16.42	55.02	18.6
roof	1.5(DL-RSY)	Combination	Min	Y	0.001258	34	0	26.48	18.6
roof	DL+0.8LL+0.8EQX	Combination		X	0.000818	87	27.51	0	18.6
roof	DL+0.8LL+0.8EQY	Combination		Y	0.000681	44	79.17	12.53	18.6
roof	DL+0.8LL+0.8RSX	Combination		Y	0.000681	44	79.17	12.53	18.6
roof	DL+0.8LL-0.8EQX	Combination		X	0.000845	2	24.04	54.86	18.6
roof	DL+0.8LL-0.8EQY	Combination		Y	0.000877	34	0	26.48	18.6
roof	DL+0.8LL-0.8RSX	Combination	Max	X	0.00057	87	27.51	0	18.6
roof	DL+0.8LL-0.8RSX	Combination	Min	X	0.000599	2	24.04	54.86	18.6
roof	DL+0.8LL+0.8RSY	Combination	Max	X	0.0003	87	27.51	0	18.6
roof	DL+0.8LL+0.8RSY	Combination	Max	Y	0.000721	44	79.17	12.53	18.6
roof	DL+0.8LL+0.8RSY	Combination	Min	X	0.000347	105	16.42	55.02	18.6
roof	DL+0.8LL+0.8RSY	Combination	Min	Y	0.000709	34	0	26.48	18.6
roof	DL+0.8LL-0.8RSY	Combination	Max	X	0.0003	87	27.51	0	18.6
roof	DL+0.8LL-0.8RSY	Combination	Max	Y	0.000721	44	79.17	12.53	18.6
roof	DL+0.8LL-0.8RSY	Combination	Min	X	0.000347	105	16.42	55.02	18.6
roof	DL+0.8LL-0.8RSY	Combination	Min	Y	0.000709	34	0	26.48	18.6
roof	DL+EQX	Combination		X	0.001011	87	27.51	0	18.6
roof	DL+EQY	Combination		Y	0.00086	34	0	26.48	18.6
roof	DL+RSX	Combination	Max	X	0.000701	87	27.51	0	18.6
roof	DL+RSX	Combination	Min	X	0.000711	2	24.04	54.86	18.6
roof	DL+RSY	Combination	Max	X	0.000364	87	27.51	0	18.6
roof	DL+RSY	Combination	Max	Y	0.000876	44	79.17	12.53	18.6
roof	DL+RSY	Combination	Min	X	0.000395	105	16.42	55.02	18.6
roof	DL+RSY	Combination	Min	Y	0.000839	34	0	26.48	18.6
roof	DL-EQX	Combination		X	0.001018	2	24.04	54.86	18.6
roof	DL-EQY	Combination		Y	0.00105	34	0	26.48	18.6
roof	DL-RSX	Combination	Max	X	0.000701	87	27.51	0	18.6
roof	DL-RSX	Combination	Min	X	0.000711	2	24.04	54.86	18.6
roof	DL-RSY	Combination	Max	X	0.000364	87	27.51	0	18.6
roof	DL-RSY	Combination	Max	Y	0.000876	44	79.17	12.53	18.6
roof	DL-RSY	Combination	Min	X	0.000395	105	16.42	55.02	18.6
roof	DL-RSY	Combination	Min	Y	0.000839	34	0	26.48	18.6
roof	1.5(DL+LL)	Combination		X	0.000107	2	24.04	54.86	18.6
roof	1.5(DL+LL)	Combination		Y	0.000178	34	0	26.48	18.6
roof	ultimate envelope	Combination	Max	X	0.001516	87	27.51	0	18.6
roof	ultimate envelope	Combination	Max	Y	0.001347	34	0	26.48	18.6
roof	ultimate envelope	Combination	Min	X	0.001528	2	24.04	54.86	18.6
roof	ultimate envelope	Combination	Min	Y	0.001574	34	0	26.48	18.6
roof	seismic weight	Combination		X	5.9E-05	87	27.51	0	18.6
roof	seismic weight	Combination		Y	9.9E-05	34	0	26.48	18.6
story5	Dead	LinStatic		X	2.9E-05	105	16.42	55.02	15.6
story5	Dead	LinStatic		Y	5.1E-05	34	0	26.48	15.6
story5	Live	LinStatic		X	1.1E-05	2	24.04	54.86	15.6
story5	Live	LinStatic		Y	1.6E-05	34	0	26.48	15.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story5	Floor finish	LinStatic		X	1.6E-05	105	16.42	55.02	15.6
story5	Floor finish	LinStatic		Y	2.4E-05	34	0	26.48	15.6
story5	sunken filling	LinStatic		X	2E-06	2	24.04	54.86	15.6
story5	sunken filling	LinStatic		Y	2E-06	44	79.17	12.53	15.6
story5	wall load	LinStatic		X	2.9E-05	87	27.51	0	15.6
story5	wall load	LinStatic		Y	1.9E-05	38	79.17	28.23	15.6
story5	sesmic - X	LinStatic		X	0.001561	105	16.42	55.02	15.6
story5	sesmic - Y	LinStatic		Y	0.001367	34	0	26.48	15.6
story5	RSX	LinRespSpec	Max	X	0.001078	105	16.42	55.02	15.6
story5	RXY	LinRespSpec	Max	X	0.000501	105	16.42	55.02	15.6
story5	RXY	LinRespSpec	Max	Y	0.001161	44	79.17	12.53	15.6
story5	roof live	LinStatic		X	1.3E-05	105	16.42	55.02	15.6
story5	roof live	LinStatic		Y	8E-06	44	79.17	12.53	15.6
story5	(DL+LL)	Combination		X	6.2E-05	105	16.42	55.02	15.6
story5	(DL+LL)	Combination		Y	0.000106	34	0	26.48	15.6
story5	09DL+1.5EQX	Combination		X	0.002362	87	27.51	0	15.6
story5	09DL-1.5EQX	Combination		X	0.002376	105	16.42	55.02	15.6
story5	0.9DL+1.5RSX	Combination	Max	X	0.001623	87	27.51	0	15.6
story5	0.9DL+1.5RSX	Combination	Min	X	0.001652	105	16.42	55.02	15.6
story5	0.9DL-1.5RSX	Combination	Max	X	0.001623	87	27.51	0	15.6
story5	0.9DL-1.5RSX	Combination	Min	X	0.001652	105	16.42	55.02	15.6
story5	09DL-1.5EQY	Combination		Y	0.002128	34	0	26.48	15.6
story5	09DL+1.5EQY	Combination		Y	0.001973	34	0	26.48	15.6
story5	0.9DL+1.5RSY	Combination	Max	X	0.000717	105	16.42	55.02	15.6
story5	0.9DL+1.5RSY	Combination	Max	Y	0.001775	44	79.17	12.53	15.6
story5	0.9DL+1.5RSY	Combination	Min	X	0.000786	105	16.42	55.02	15.6
story5	0.9DL+1.5RSY	Combination	Min	Y	0.001708	44	79.17	12.53	15.6
story5	0.9DL-1.5RSY	Combination	Max	X	0.000717	105	16.42	55.02	15.6
story5	0.9DL-1.5RSY	Combination	Max	Y	0.001775	44	79.17	12.53	15.6
story5	0.9DL-1.5RSY	Combination	Min	X	0.000786	105	16.42	55.02	15.6
story5	0.9DL-1.5RSY	Combination	Min	Y	0.001708	44	79.17	12.53	15.6
story5	1.2(DL+LL+EQX)	Combination		X	0.001907	87	27.51	0	15.6
story5	1.2(DL+LL-EQX)	Combination		X	0.001947	105	16.42	55.02	15.6
story5	1.2(DL+LL+RSX)	Combination	Max	X	0.001316	87	27.51	0	15.6
story5	1.2(DL+LL+RSX)	Combination	Min	X	0.001368	105	16.42	55.02	15.6
story5	1.2(DL+LL-RSX)	Combination	Max	X	0.001316	87	27.51	0	15.6
story5	1.2(DL+LL-RSX)	Combination	Min	X	0.001368	105	16.42	55.02	15.6
story5	1.2(DL+LL+EQY)	Combination		Y	0.001514	34	0	26.48	15.6
story5	1.2(DL+LL-EQY)	Combination		Y	0.001767	34	0	26.48	15.6
story5	1.2(DL+LL+RSY)	Combination	Max	X	0.000579	87	27.51	0	15.6
story5	1.2(DL+LL+RSY)	Combination	Max	Y	0.001447	44	79.17	12.53	15.6
story5	1.2(DL+LL+RSY)	Combination	Min	X	0.000675	105	16.42	55.02	15.6
story5	1.2(DL+LL+RSY)	Combination	Min	Y	0.001405	34	0	26.48	15.6
story5	1.2(DL+LL-RSY)	Combination	Max	X	0.000579	87	27.51	0	15.6
story5	1.2(DL+LL-RSY)	Combination	Max	Y	0.001447	44	79.17	12.53	15.6
story5	1.2(DL+LL-RSY)	Combination	Min	X	0.000675	105	16.42	55.02	15.6
story5	1.2(DL+LL-RSY)	Combination	Min	Y	0.001405	34	0	26.48	15.6
story5	1.5(DL+EQX)	Combination		X	0.00239	87	27.51	0	15.6
story5	1.5(DL+EQY)	Combination		Y	0.001922	34	0	26.48	15.6
story5	1.5(DL+RSX)	Combination	Max	X	0.001651	87	27.51	0	15.6
story5	1.5(DL+RSX)	Combination	Min	X	0.001675	105	16.42	55.02	15.6
story5	1.5(DL+RSY)	Combination	Max	X	0.00073	87	27.51	0	15.6
story5	1.5(DL+RSY)	Combination	Max	Y	0.001797	44	79.17	12.53	15.6
story5	1.5(DL+RSY)	Combination	Min	X	0.000809	105	16.42	55.02	15.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story5	1.5(DL+RSY)	Combination	Min	Y	0.001726	34	0	26.48	15.6
story5	1.5(DL-EQX)	Combination		X	0.002399	105	16.42	55.02	15.6
story5	1.5(DL-EQY)	Combination		Y	0.002179	34	0	26.48	15.6
story5	1.5(DL-RSX)	Combination	Max	X	0.001651	87	27.51	0	15.6
story5	1.5(DL-RSX)	Combination	Min	X	0.001675	105	16.42	55.02	15.6
story5	1.5(DL-RSY)	Combination	Max	X	0.00073	87	27.51	0	15.6
story5	1.5(DL-RSY)	Combination	Max	Y	0.001797	44	79.17	12.53	15.6
story5	1.5(DL-RSY)	Combination	Min	X	0.000809	105	16.42	55.02	15.6
story5	1.5(DL-RSY)	Combination	Min	Y	0.001726	34	0	26.48	15.6
story5	DL+0.8LL+0.8EQX	Combination		X	0.001281	87	27.51	0	15.6
story5	DL+0.8LL+0.8EQY	Combination		Y	0.000992	34	0	26.48	15.6
story5	DL+0.8LL+0.8RSX	Combination		Y	0.000992	34	0	26.48	15.6
story5	DL+0.8LL-0.8EQX	Combination		X	0.001306	105	16.42	55.02	15.6
story5	DL+0.8LL-0.8EQY	Combination		Y	0.001195	34	0	26.48	15.6
story5	DL+0.8LL-0.8RSX	Combination	Max	X	0.000887	87	27.51	0	15.6
story5	DL+0.8LL-0.8RSX	Combination	Min	X	0.000919	105	16.42	55.02	15.6
story5	DL+0.8LL+0.8RSY	Combination	Max	X	0.000395	87	27.51	0	15.6
story5	DL+0.8LL+0.8RSY	Combination	Max	Y	0.000972	44	79.17	12.53	15.6
story5	DL+0.8LL+0.8RSY	Combination	Min	X	0.000458	105	16.42	55.02	15.6
story5	DL+0.8LL+0.8RSY	Combination	Min	Y	0.000953	34	0	26.48	15.6
story5	DL+0.8LL-0.8RSY	Combination	Max	X	0.000395	87	27.51	0	15.6
story5	DL+0.8LL-0.8RSY	Combination	Max	Y	0.000972	44	79.17	12.53	15.6
story5	DL+0.8LL-0.8RSY	Combination	Min	X	0.000458	105	16.42	55.02	15.6
story5	DL+0.8LL-0.8RSY	Combination	Min	Y	0.000953	34	0	26.48	15.6
story5	DL+EQX	Combination		X	0.001593	87	27.51	0	15.6
story5	DL+EQY	Combination		Y	0.001281	34	0	26.48	15.6
story5	DL+RSX	Combination	Max	X	0.001101	87	27.51	0	15.6
story5	DL+RSX	Combination	Min	X	0.001116	105	16.42	55.02	15.6
story5	DL+RSY	Combination	Max	X	0.000487	87	27.51	0	15.6
story5	DL+RSY	Combination	Max	Y	0.001198	44	79.17	12.53	15.6
story5	DL+RSY	Combination	Min	X	0.000539	105	16.42	55.02	15.6
story5	DL+RSY	Combination	Min	Y	0.001151	34	0	26.48	15.6
story5	DL-EQX	Combination		X	0.001599	105	16.42	55.02	15.6
story5	DL-EQY	Combination		Y	0.001453	34	0	26.48	15.6
story5	DL-RSX	Combination	Max	X	0.001101	87	27.51	0	15.6
story5	DL-RSX	Combination	Min	X	0.001116	105	16.42	55.02	15.6
story5	DL-RSY	Combination	Max	X	0.000487	87	27.51	0	15.6
story5	DL-RSY	Combination	Max	Y	0.001198	44	79.17	12.53	15.6
story5	DL-RSY	Combination	Min	X	0.000539	105	16.42	55.02	15.6
story5	DL-RSY	Combination	Min	Y	0.001151	34	0	26.48	15.6
story5	1.5(DL+LL)	Combination		X	9.3E-05	105	16.42	55.02	15.6
story5	1.5(DL+LL)	Combination		Y	0.000158	34	0	26.48	15.6
story5	ultimate envelope	Combination	Max	X	0.00239	87	27.51	0	15.6
story5	ultimate envelope	Combination	Max	Y	0.001973	34	0	26.48	15.6
story5	ultimate envelope	Combination	Min	X	0.002399	105	16.42	55.02	15.6
story5	ultimate envelope	Combination	Min	Y	0.002179	34	0	26.48	15.6
story5	seismic weight	Combination		X	4.7E-05	87	27.51	0	15.6
story5	seismic weight	Combination		Y	9E-05	34	0	26.48	15.6
story4	Dead	LinStatic		X	2.4E-05	105	16.42	55.02	12.6
story4	Dead	LinStatic		Y	4.7E-05	34	0	26.48	12.6
story4	Live	LinStatic		X	9E-06	105	16.42	55.02	12.6
story4	Live	LinStatic		Y	1.5E-05	34	0	26.48	12.6
story4	Floor finish	LinStatic		X	1.4E-05	105	16.42	55.02	12.6
story4	Floor finish	LinStatic		Y	2.2E-05	34	0	26.48	12.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story4	sunken filling	LinStatic		X	2E-06	105	16.42	55.02	12.6
story4	sunken filling	LinStatic		Y	1E-06	44	79.17	12.53	12.6
story4	wall load	LinStatic		X	2.8E-05	87	27.51	0	12.6
story4	wall load	LinStatic		Y	1.7E-05	44	79.17	12.53	12.6
story4	sesmic - X	LinStatic		X	0.002033	2	24.04	54.86	12.6
story4	sesmic - Y	LinStatic		Y	0.001747	34	0	26.48	12.6
story4	RSX	LinRespSpec	Max	X	0.001461	105	16.42	55.02	12.6
story4	RXY	LinRespSpec	Max	X	0.000653	105	16.42	55.02	12.6
story4	RXY	LinRespSpec	Max	Y	0.001503	44	79.17	12.53	12.6
story4	roof live	LinStatic		X	1E-05	2	24.04	54.86	12.6
story4	roof live	LinStatic		Y	7E-06	44	79.17	12.53	12.6
story4	(DL+LL)	Combination		X	5E-05	105	16.42	55.02	12.6
story4	(DL+LL)	Combination		Y	9.8E-05	34	0	26.48	12.6
story4	09DL+1.5EQX	Combination		X	0.003075	87	27.51	0	12.6
story4	09DL-1.5EQX	Combination		X	0.003077	105	16.42	55.02	12.6
story4	0.9DL+1.5RSX	Combination	Max	X	0.002193	87	27.51	0	12.6
story4	0.9DL+1.5RSX	Combination	Min	X	0.002219	105	16.42	55.02	12.6
story4	0.9DL-1.5RSX	Combination	Max	X	0.002193	87	27.51	0	12.6
story4	0.9DL-1.5RSX	Combination	Min	X	0.002219	105	16.42	55.02	12.6
story4	09DL-1.5EQY	Combination		Y	0.002692	34	0	26.48	12.6
story4	09DL+1.5EQY	Combination		Y	0.002549	34	0	26.48	12.6
story4	0.9DL+1.5RSY	Combination	Max	X	0.000952	105	16.42	55.02	12.6
story4	0.9DL+1.5RSY	Combination	Max	Y	0.00228	44	79.17	12.53	12.6
story4	0.9DL+1.5RSY	Combination	Min	X	0.001008	105	16.42	55.02	12.6
story4	0.9DL+1.5RSY	Combination	Min	Y	0.002229	44	79.17	12.53	12.6
story4	0.9DL-1.5RSY	Combination	Max	X	0.000952	105	16.42	55.02	12.6
story4	0.9DL-1.5RSY	Combination	Max	Y	0.00228	44	79.17	12.53	12.6
story4	0.9DL-1.5RSY	Combination	Min	X	0.001008	105	16.42	55.02	12.6
story4	0.9DL-1.5RSY	Combination	Min	Y	0.002229	44	79.17	12.53	12.6
story4	1.2(DL+LL+EQX)	Combination		X	0.002477	87	27.51	0	12.6
story4	1.2(DL+LL-EQX)	Combination		X	0.0025	105	16.42	55.02	12.6
story4	1.2(DL+LL+RSX)	Combination	Max	X	0.001771	87	27.51	0	12.6
story4	1.2(DL+LL+RSX)	Combination	Min	X	0.001813	105	16.42	55.02	12.6
story4	1.2(DL+LL-RSX)	Combination	Max	X	0.001771	87	27.51	0	12.6
story4	1.2(DL+LL-RSX)	Combination	Min	X	0.001813	105	16.42	55.02	12.6
story4	1.2(DL+LL+EQY)	Combination		Y	0.001979	34	0	26.48	12.6
story4	1.2(DL+LL-EQY)	Combination		Y	0.002213	34	0	26.48	12.6
story4	1.2(DL+LL+RSY)	Combination	Max	X	0.000743	87	27.51	0	12.6
story4	1.2(DL+LL+RSY)	Combination	Max	Y	0.001844	44	79.17	12.53	12.6
story4	1.2(DL+LL+RSY)	Combination	Min	X	0.000845	105	16.42	55.02	12.6
story4	1.2(DL+LL+RSY)	Combination	Min	Y	0.001801	34	0	26.48	12.6
story4	1.2(DL+LL-RSY)	Combination	Max	X	0.000743	87	27.51	0	12.6
story4	1.2(DL+LL-RSY)	Combination	Max	Y	0.001844	44	79.17	12.53	12.6
story4	1.2(DL+LL-RSY)	Combination	Min	X	0.000845	105	16.42	55.02	12.6
story4	1.2(DL+LL-RSY)	Combination	Min	Y	0.001801	34	0	26.48	12.6
story4	1.5(DL+EQX)	Combination		X	0.003101	87	27.51	0	12.6
story4	1.5(DL+EQY)	Combination		Y	0.002502	34	0	26.48	12.6
story4	1.5(DL+RSX)	Combination	Max	X	0.002219	87	27.51	0	12.6
story4	1.5(DL+RSX)	Combination	Min	X	0.002238	105	16.42	55.02	12.6
story4	1.5(DL+RSY)	Combination	Max	X	0.000934	87	27.51	0	12.6
story4	1.5(DL+RSY)	Combination	Max	Y	0.002297	44	79.17	12.53	12.6
story4	1.5(DL+RSY)	Combination	Min	X	0.001027	105	16.42	55.02	12.6
story4	1.5(DL+RSY)	Combination	Min	Y	0.002223	34	0	26.48	12.6
story4	1.5(DL-EQX)	Combination		X	0.003095	105	16.42	55.02	12.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story4	1.5(DL-EQY)	Combination		Y	0.002739	34	0	26.48	12.6
story4	1.5(DL-RSX)	Combination	Max	X	0.002219	87	27.51	0	12.6
story4	1.5(DL-RSX)	Combination	Min	X	0.002238	105	16.42	55.02	12.6
story4	1.5(DL-RSY)	Combination	Max	X	0.000934	87	27.51	0	12.6
story4	1.5(DL-RSY)	Combination	Max	Y	0.002297	44	79.17	12.53	12.6
story4	1.5(DL-RSY)	Combination	Min	X	0.001027	105	16.42	55.02	12.6
story4	1.5(DL-RSY)	Combination	Min	Y	0.002223	34	0	26.48	12.6
story4	DL+0.8LL+0.8EQX	Combination		X	0.00166	87	27.51	0	12.6
story4	DL+0.8LL+0.8EQY	Combination		Y	0.001304	34	0	26.48	12.6
story4	DL+0.8LL+0.8RSX	Combination		Y	0.001304	34	0	26.48	12.6
story4	DL+0.8LL-0.8EQX	Combination		X	0.001673	105	16.42	55.02	12.6
story4	DL+0.8LL-0.8EQY	Combination		Y	0.001491	34	0	26.48	12.6
story4	DL+0.8LL-0.8RSX	Combination	Max	X	0.00119	87	27.51	0	12.6
story4	DL+0.8LL-0.8RSX	Combination	Min	X	0.001215	105	16.42	55.02	12.6
story4	DL+0.8LL+0.8RSY	Combination	Max	X	0.000504	87	27.51	0	12.6
story4	DL+0.8LL+0.8RSY	Combination	Max	Y	0.001235	44	79.17	12.53	12.6
story4	DL+0.8LL+0.8RSY	Combination	Min	X	0.000569	105	16.42	55.02	12.6
story4	DL+0.8LL+0.8RSY	Combination	Min	Y	0.001216	34	0	26.48	12.6
story4	DL+0.8LL-0.8RSY	Combination	Max	X	0.000504	87	27.51	0	12.6
story4	DL+0.8LL-0.8RSY	Combination	Max	Y	0.001235	44	79.17	12.53	12.6
story4	DL+0.8LL-0.8RSY	Combination	Min	X	0.000569	105	16.42	55.02	12.6
story4	DL+0.8LL-0.8RSY	Combination	Min	Y	0.001216	34	0	26.48	12.6
story4	DL+EQX	Combination		X	0.002068	87	27.51	0	12.6
story4	DL+EQY	Combination		Y	0.001668	34	0	26.48	12.6
story4	DL+RSX	Combination	Max	X	0.001479	87	27.51	0	12.6
story4	DL+RSX	Combination	Min	X	0.001492	105	16.42	55.02	12.6
story4	DL+RSY	Combination	Max	X	0.000623	87	27.51	0	12.6
story4	DL+RSY	Combination	Max	Y	0.001532	44	79.17	12.53	12.6
story4	DL+RSY	Combination	Min	X	0.000684	105	16.42	55.02	12.6
story4	DL+RSY	Combination	Min	Y	0.001482	34	0	26.48	12.6
story4	DL-EQX	Combination		X	0.002064	105	16.42	55.02	12.6
story4	DL-EQY	Combination		Y	0.001826	34	0	26.48	12.6
story4	DL-RSX	Combination	Max	X	0.001479	87	27.51	0	12.6
story4	DL-RSX	Combination	Min	X	0.001492	105	16.42	55.02	12.6
story4	DL-RSY	Combination	Max	X	0.000623	87	27.51	0	12.6
story4	DL-RSY	Combination	Max	Y	0.001532	44	79.17	12.53	12.6
story4	DL-RSY	Combination	Min	X	0.000684	105	16.42	55.02	12.6
story4	DL-RSY	Combination	Min	Y	0.001482	34	0	26.48	12.6
story4	1.5(DL+LL)	Combination		X	7.6E-05	105	16.42	55.02	12.6
story4	1.5(DL+LL)	Combination		Y	0.000146	34	0	26.48	12.6
story4	ultimate envelope	Combination	Max	X	0.003101	87	27.51	0	12.6
story4	ultimate envelope	Combination	Max	Y	0.002549	34	0	26.48	12.6
story4	ultimate envelope	Combination	Min	X	0.003095	105	16.42	55.02	12.6
story4	ultimate envelope	Combination	Min	Y	0.002739	34	0	26.48	12.6
story4	seismic weight	Combination		X	4.4E-05	87	27.51	0	12.6
story4	seismic weight	Combination		Y	8.3E-05	34	0	26.48	12.6
story3	Dead	LinStatic		Y	4.2E-05	34	0	26.48	9.6
story3	Live	LinStatic		X	7E-06	105	16.42	55.02	9.6
story3	Live	LinStatic		Y	1.4E-05	34	0	26.48	9.6
story3	Floor finish	LinStatic		X	1.1E-05	105	16.42	55.02	9.6
story3	Floor finish	LinStatic		Y	1.9E-05	34	0	26.48	9.6
story3	sunken filling	LinStatic		X	2E-06	105	16.42	55.02	9.6
story3	wall load	LinStatic		X	2.7E-05	87	27.51	0	9.6
story3	wall load	LinStatic		Y	1.5E-05	38	79.17	28.23	9.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story3	sesmic - X	LinStatic		X	0.002357	105	16.42	55.02	9.6
story3	sesmic - Y	LinStatic		Y	0.002013	34	0	26.48	9.6
story3	RSX	LinRespSpec	Max	X	0.001805	105	16.42	55.02	9.6
story3	RXY	LinRespSpec	Max	X	0.000787	105	16.42	55.02	9.6
story3	RXY	LinRespSpec	Max	Y	0.001799	44	79.17	12.53	9.6
story3	roof live	LinStatic		X	8E-06	105	16.42	55.02	9.6
story3	roof live	LinStatic		Y	6E-06	44	79.17	12.53	9.6
story3	(DL+LL)	Combination		Y	8.9E-05	4	0	49.34	9.6
story3	09DL+1.5EQX	Combination		X	0.003565	87	27.51	0	9.6
story3	09DL-1.5EQX	Combination		X	0.003555	105	16.42	55.02	9.6
story3	0.9DL+1.5RSX	Combination	Max	X	0.002704	87	27.51	0	9.6
story3	0.9DL+1.5RSX	Combination	Min	X	0.002727	105	16.42	55.02	9.6
story3	0.9DL-1.5RSX	Combination	Max	X	0.002704	87	27.51	0	9.6
story3	0.9DL-1.5RSX	Combination	Min	X	0.002727	105	16.42	55.02	9.6
story3	09DL-1.5EQY	Combination		Y	0.003086	34	0	26.48	9.6
story3	09DL+1.5EQY	Combination		Y	0.002955	34	0	26.48	9.6
story3	0.9DL+1.5RSY	Combination	Max	X	0.001161	105	16.42	55.02	9.6
story3	0.9DL+1.5RSY	Combination	Max	Y	0.002716	44	79.17	12.53	9.6
story3	0.9DL+1.5RSY	Combination	Min	X	0.001201	105	16.42	55.02	9.6
story3	0.9DL+1.5RSY	Combination	Min	Y	0.00268	44	79.17	12.53	9.6
story3	0.9DL-1.5RSY	Combination	Max	X	0.001161	105	16.42	55.02	9.6
story3	0.9DL-1.5RSY	Combination	Max	Y	0.002716	44	79.17	12.53	9.6
story3	0.9DL-1.5RSY	Combination	Min	X	0.001201	105	16.42	55.02	9.6
story3	0.9DL-1.5RSY	Combination	Min	Y	0.00268	44	79.17	12.53	9.6
story3	1.2(DL+LL+EQX)	Combination		X	0.00287	87	27.51	0	9.6
story3	1.2(DL+LL-EQX)	Combination		X	0.002873	105	16.42	55.02	9.6
story3	1.2(DL+LL+RSX)	Combination	Max	X	0.002181	87	27.51	0	9.6
story3	1.2(DL+LL+RSX)	Combination	Min	X	0.002211	105	16.42	55.02	9.6
story3	1.2(DL+LL-RSX)	Combination	Max	X	0.002181	87	27.51	0	9.6
story3	1.2(DL+LL-RSX)	Combination	Min	X	0.002211	105	16.42	55.02	9.6
story3	1.2(DL+LL+EQY)	Combination		Y	0.002309	34	0	26.48	9.6
story3	1.2(DL+LL-EQY)	Combination		Y	0.002523	34	0	26.48	9.6
story3	1.2(DL+LL+RSY)	Combination	Max	X	0.0009	105	16.42	55.02	9.6
story3	1.2(DL+LL+RSY)	Combination	Max	Y	0.002186	44	79.17	12.53	9.6
story3	1.2(DL+LL+RSY)	Combination	Min	X	0.00099	105	16.42	55.02	9.6
story3	1.2(DL+LL+RSY)	Combination	Min	Y	0.002155	34	0	26.48	9.6
story3	1.2(DL+LL-RSY)	Combination	Max	X	0.0009	105	16.42	55.02	9.6
story3	1.2(DL+LL-RSY)	Combination	Max	Y	0.002186	44	79.17	12.53	9.6
story3	1.2(DL+LL-RSY)	Combination	Min	X	0.00099	105	16.42	55.02	9.6
story3	1.2(DL+LL-RSY)	Combination	Min	Y	0.002155	34	0	26.48	9.6
story3	1.5(DL+EQX)	Combination		X	0.00359	87	27.51	0	9.6
story3	1.5(DL+EQY)	Combination		Y	0.002911	34	0	26.48	9.6
story3	1.5(DL+RSX)	Combination	Max	X	0.00273	87	27.51	0	9.6
story3	1.5(DL+RSX)	Combination	Min	X	0.00274	105	16.42	55.02	9.6
story3	1.5(DL+RSY)	Combination	Max	X	0.001148	105	16.42	55.02	9.6
story3	1.5(DL+RSY)	Combination	Max	Y	0.002729	44	79.17	12.53	9.6
story3	1.5(DL+RSY)	Combination	Min	X	0.001214	105	16.42	55.02	9.6
story3	1.5(DL+RSY)	Combination	Min	Y	0.002669	34	0	26.48	9.6
story3	1.5(DL-EQX)	Combination		X	0.003568	105	16.42	55.02	9.6
story3	1.5(DL-EQY)	Combination		Y	0.003129	34	0	26.48	9.6
story3	1.5(DL-RSX)	Combination	Max	X	0.00273	87	27.51	0	9.6
story3	1.5(DL-RSX)	Combination	Min	X	0.00274	105	16.42	55.02	9.6
story3	1.5(DL-RSY)	Combination	Max	X	0.001148	105	16.42	55.02	9.6
story3	1.5(DL-RSY)	Combination	Max	Y	0.002729	44	79.17	12.53	9.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story3	1.5(DL-RSY)	Combination	Min	X	0.001214	105	16.42	55.02	9.6
story3	1.5(DL-RSY)	Combination	Min	Y	0.002669	34	0	26.48	9.6
story3	DL+0.8LL+0.8EQX	Combination		X	0.001922	87	27.51	0	9.6
story3	DL+0.8LL+0.8EQY	Combination		Y	0.001525	34	0	26.48	9.6
story3	DL+0.8LL+0.8RSX	Combination		Y	0.001525	34	0	26.48	9.6
story3	DL+0.8LL-0.8EQX	Combination		X	0.00192	105	16.42	55.02	9.6
story3	DL+0.8LL-0.8EQY	Combination		Y	0.001697	34	0	26.48	9.6
story3	DL+0.8LL-0.8RSX	Combination	Max	X	0.001463	87	27.51	0	9.6
story3	DL+0.8LL-0.8RSX	Combination	Min	X	0.001478	105	16.42	55.02	9.6
story3	DL+0.8LL+0.8RSY	Combination	Max	X	0.000601	87	27.51	0	9.6
story3	DL+0.8LL+0.8RSY	Combination	Max	Y	0.001461	44	79.17	12.53	9.6
story3	DL+0.8LL+0.8RSY	Combination	Min	X	0.000664	105	16.42	55.02	9.6
story3	DL+0.8LL+0.8RSY	Combination	Min	Y	0.001451	34	0	26.48	9.6
story3	DL+0.8LL-0.8RSY	Combination	Max	X	0.000601	87	27.51	0	9.6
story3	DL+0.8LL-0.8RSY	Combination	Max	Y	0.001461	44	79.17	12.53	9.6
story3	DL+0.8LL-0.8RSY	Combination	Min	X	0.000664	105	16.42	55.02	9.6
story3	DL+0.8LL-0.8RSY	Combination	Min	Y	0.001451	34	0	26.48	9.6
story3	DL+EQX	Combination		X	0.002394	87	27.51	0	9.6
story3	DL+EQY	Combination		Y	0.001941	34	0	26.48	9.6
story3	DL+RSX	Combination	Max	X	0.00182	87	27.51	0	9.6
story3	DL+RSX	Combination	Min	X	0.001827	105	16.42	55.02	9.6
story3	DL+RSY	Combination	Max	X	0.000765	105	16.42	55.02	9.6
story3	DL+RSY	Combination	Max	Y	0.001819	44	79.17	12.53	9.6
story3	DL+RSY	Combination	Min	X	0.000809	105	16.42	55.02	9.6
story3	DL+RSY	Combination	Min	Y	0.001779	34	0	26.48	9.6
story3	DL-EQX	Combination		X	0.002379	105	16.42	55.02	9.6
story3	DL-EQY	Combination		Y	0.002086	34	0	26.48	9.6
story3	DL-RSX	Combination	Max	X	0.00182	87	27.51	0	9.6
story3	DL-RSX	Combination	Min	X	0.001827	105	16.42	55.02	9.6
story3	DL-RSY	Combination	Max	X	0.000765	105	16.42	55.02	9.6
story3	DL-RSY	Combination	Max	Y	0.001819	44	79.17	12.53	9.6
story3	DL-RSY	Combination	Min	X	0.000809	105	16.42	55.02	9.6
story3	DL-RSY	Combination	Min	Y	0.001779	34	0	26.48	9.6
story3	1.5(DL+LL)	Combination		Y	0.000134	34	0	26.48	9.6
story3	ultimate envelope	Combination	Max	X	0.00359	87	27.51	0	9.6
story3	ultimate envelope	Combination	Max	Y	0.002955	34	0	26.48	9.6
story3	ultimate envelope	Combination	Min	X	0.003568	105	16.42	55.02	9.6
story3	ultimate envelope	Combination	Min	Y	0.003129	34	0	26.48	9.6
story3	seismic weight	Combination		X	4.3E-05	87	27.51	0	9.6
story3	seismic weight	Combination		Y	7.6E-05	4	0	49.34	9.6
story2	Dead	LinStatic		X	2.2E-05	87	27.51	0	6.6
story2	Dead	LinStatic		Y	4.4E-05	34	0	26.48	6.6
story2	Live	LinStatic		Y	1.5E-05	34	0	26.48	6.6
story2	Floor finish	LinStatic		Y	2E-05	34	0	26.48	6.6
story2	sunken filling	LinStatic		X	3E-06	2	24.04	54.86	6.6
story2	sunken filling	LinStatic		Y	2E-06	34	0	26.48	6.6
story2	wall load	LinStatic		X	2.6E-05	87	27.51	0	6.6
story2	sesmic - X	LinStatic		X	0.002688	2	24.04	54.86	6.6
story2	sesmic - Y	LinStatic		Y	0.002241	34	0	26.48	6.6
story2	RSX	LinRespSpec	Max	X	0.002246	2	24.04	54.86	6.6
story2	RXY	LinRespSpec	Max	X	0.000953	105	16.42	55.02	6.6
story2	RXY	LinRespSpec	Max	Y	0.002145	44	79.17	12.53	6.6
story2	roof live	LinStatic		X	6E-06	105	16.42	55.02	6.6
story2	roof live	LinStatic		Y	4E-06	44	79.17	12.53	6.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story2	(DL+LL)	Combination		X	5.4E-05	87	27.51	0	6.6
story2	(DL+LL)	Combination		Y	9.8E-05	34	0	26.48	6.6
story2	09DL+1.5EQX	Combination		X	0.004061	87	27.51	0	6.6
story2	09DL-1.5EQX	Combination		X	0.004046	2	24.04	54.86	6.6
story2	0.9DL+1.5RSX	Combination	Max	X	0.003358	87	27.51	0	6.6
story2	0.9DL+1.5RSX	Combination	Min	X	0.003382	2	24.04	54.86	6.6
story2	0.9DL-1.5RSX	Combination	Max	X	0.003358	87	27.51	0	6.6
story2	0.9DL-1.5RSX	Combination	Min	X	0.003382	2	24.04	54.86	6.6
story2	09DL-1.5EQY	Combination		Y	0.003434	34	0	26.48	6.6
story2	09DL+1.5EQY	Combination		Y	0.00329	34	0	26.48	6.6
story2	0.9DL+1.5RSY	Combination	Max	X	0.001415	105	16.42	55.02	6.6
story2	0.9DL+1.5RSY	Combination	Max	Y	0.003232	44	79.17	12.53	6.6
story2	0.9DL+1.5RSY	Combination	Min	X	0.001442	105	16.42	55.02	6.6
story2	0.9DL+1.5RSY	Combination	Min	Y	0.003203	44	79.17	12.53	6.6
story2	0.9DL-1.5RSY	Combination	Max	X	0.001415	105	16.42	55.02	6.6
story2	0.9DL-1.5RSY	Combination	Max	Y	0.003232	44	79.17	12.53	6.6
story2	0.9DL-1.5RSY	Combination	Min	X	0.001442	105	16.42	55.02	6.6
story2	0.9DL-1.5RSY	Combination	Min	Y	0.003203	44	79.17	12.53	6.6
story2	1.2(DL+LL+EQX)	Combination		X	0.003277	87	27.51	0	6.6
story2	1.2(DL+LL-EQX)	Combination		X	0.003258	2	24.04	54.86	6.6
story2	1.2(DL+LL+RSX)	Combination	Max	X	0.002714	87	27.51	0	6.6
story2	1.2(DL+LL+RSX)	Combination	Min	X	0.002726	2	24.04	54.86	6.6
story2	1.2(DL+LL-RSX)	Combination	Max	X	0.002714	87	27.51	0	6.6
story2	1.2(DL+LL-RSX)	Combination	Min	X	0.002726	2	24.04	54.86	6.6
story2	1.2(DL+LL+EQY)	Combination		Y	0.002572	34	0	26.48	6.6
story2	1.2(DL+LL-EQY)	Combination		Y	0.002807	34	0	26.48	6.6
story2	1.2(DL+LL+RSY)	Combination	Max	X	0.001112	105	16.42	55.02	6.6
story2	1.2(DL+LL+RSY)	Combination	Max	Y	0.002595	44	79.17	12.53	6.6
story2	1.2(DL+LL+RSY)	Combination	Min	X	0.001174	105	16.42	55.02	6.6
story2	1.2(DL+LL+RSY)	Combination	Min	Y	0.002575	34	0	26.48	6.6
story2	1.2(DL+LL-RSY)	Combination	Max	X	0.001112	105	16.42	55.02	6.6
story2	1.2(DL+LL-RSY)	Combination	Max	Y	0.002595	44	79.17	12.53	6.6
story2	1.2(DL+LL-RSY)	Combination	Min	X	0.001174	105	16.42	55.02	6.6
story2	1.2(DL+LL-RSY)	Combination	Min	Y	0.002575	34	0	26.48	6.6
story2	1.5(DL+EQX)	Combination		X	0.004092	87	27.51	0	6.6
story2	1.5(DL+EQY)	Combination		Y	0.003242	34	0	26.48	6.6
story2	1.5(DL+RSX)	Combination	Max	X	0.003389	87	27.51	0	6.6
story2	1.5(DL+RSX)	Combination	Min	X	0.003391	2	24.04	54.86	6.6
story2	1.5(DL+RSY)	Combination	Max	X	0.001406	105	16.42	55.02	6.6
story2	1.5(DL+RSY)	Combination	Max	Y	0.003242	44	79.17	12.53	6.6
story2	1.5(DL+RSY)	Combination	Min	X	0.001451	105	16.42	55.02	6.6
story2	1.5(DL+RSY)	Combination	Min	Y	0.003193	44	79.17	12.53	6.6
story2	1.5(DL-EQX)	Combination		X	0.004055	2	24.04	54.86	6.6
story2	1.5(DL-EQY)	Combination		Y	0.003482	34	0	26.48	6.6
story2	1.5(DL-RSX)	Combination	Max	X	0.003389	87	27.51	0	6.6
story2	1.5(DL-RSX)	Combination	Min	X	0.003391	2	24.04	54.86	6.6
story2	1.5(DL-RSY)	Combination	Max	X	0.001406	105	16.42	55.02	6.6
story2	1.5(DL-RSY)	Combination	Max	Y	0.003242	44	79.17	12.53	6.6
story2	1.5(DL-RSY)	Combination	Min	X	0.001451	105	16.42	55.02	6.6
story2	1.5(DL-RSY)	Combination	Min	Y	0.003193	44	79.17	12.53	6.6
story2	DL+0.8LL+0.8EQX	Combination		X	0.002195	87	27.51	0	6.6
story2	DL+0.8LL+0.8EQY	Combination		Y	0.001699	34	0	26.48	6.6
story2	DL+0.8LL+0.8RSX	Combination		Y	0.001699	34	0	26.48	6.6
story2	DL+0.8LL-0.8EQX	Combination		X	0.002175	2	24.04	54.86	6.6

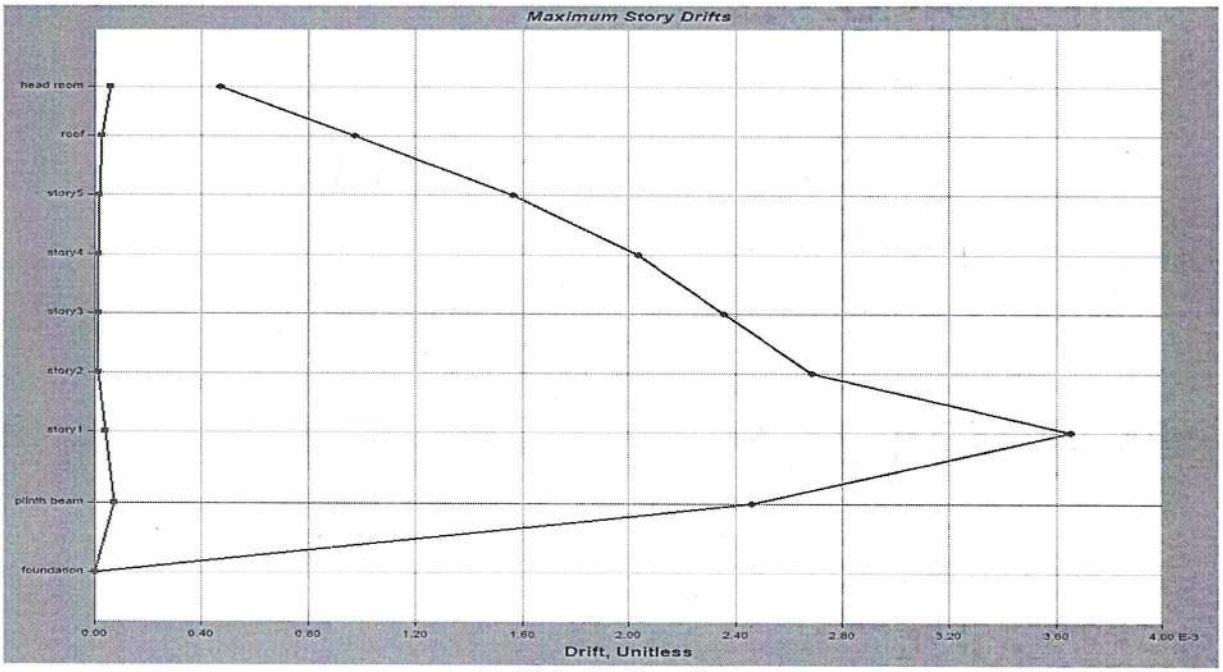
Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story2	DL+0.8LL-0.8EQY	Combination		Y	0.001887	34	0	26.48	6.6
story2	DL+0.8LL-0.8RSX	Combination	Max	X	0.00182	87	27.51	0	6.6
story2	DL+0.8LL-0.8RSX	Combination	Min	X	0.001821	2	24.04	54.86	6.6
story2	DL+0.8LL+0.8RSY	Combination	Max	X	0.000738	105	16.42	55.02	6.6
story2	DL+0.8LL+0.8RSY	Combination	Max	Y	0.001733	44	79.17	12.53	6.6
story2	DL+0.8LL+0.8RSY	Combination	Min	X	0.000786	105	16.42	55.02	6.6
story2	DL+0.8LL+0.8RSY	Combination	Min	Y	0.001733	34	0	26.48	6.6
story2	DL+0.8LL-0.8RSY	Combination	Max	X	0.000738	105	16.42	55.02	6.6
story2	DL+0.8LL-0.8RSY	Combination	Max	Y	0.001733	44	79.17	12.53	6.6
story2	DL+0.8LL-0.8RSY	Combination	Min	X	0.000786	105	16.42	55.02	6.6
story2	DL+0.8LL-0.8RSY	Combination	Min	Y	0.001733	34	0	26.48	6.6
story2	DL+EQX	Combination		X	0.002728	87	27.51	0	6.6
story2	DL+EQY	Combination		Y	0.002161	34	0	26.48	6.6
story2	DL+RSX	Combination	Max	X	0.002259	87	27.51	0	6.6
story2	DL+RSX	Combination	Min	X	0.002261	2	24.04	54.86	6.6
story2	DL+RSY	Combination	Max	X	0.000938	105	16.42	55.02	6.6
story2	DL+RSY	Combination	Max	Y	0.002161	44	79.17	12.53	6.6
story2	DL+RSY	Combination	Min	X	0.000967	105	16.42	55.02	6.6
story2	DL+RSY	Combination	Min	Y	0.002129	44	79.17	12.53	6.6
story2	DL-EQX	Combination		X	0.002703	2	24.04	54.86	6.6
story2	DL-EQY	Combination		Y	0.002321	34	0	26.48	6.6
story2	DL-RSX	Combination	Max	X	0.002259	87	27.51	0	6.6
story2	DL-RSX	Combination	Min	X	0.002261	2	24.04	54.86	6.6
story2	DL-RSY	Combination	Max	X	0.000938	105	16.42	55.02	6.6
story2	DL-RSY	Combination	Max	Y	0.002161	44	79.17	12.53	6.6
story2	DL-RSY	Combination	Min	X	0.000967	105	16.42	55.02	6.6
story2	DL-RSY	Combination	Min	Y	0.002129	44	79.17	12.53	6.6
story2	1.5(DL+LL)	Combination		X	8.1E-05	87	27.51	0	6.6
story2	1.5(DL+LL)	Combination		Y	0.000147	34	0	26.48	6.6
story2	ultimate envelope	Combination	Max	X	0.004092	87	27.51	0	6.6
story2	ultimate envelope	Combination	Max	Y	0.00329	34	0	26.48	6.6
story2	ultimate envelope	Combination	Min	X	0.004055	2	24.04	54.86	6.6
story2	ultimate envelope	Combination	Min	Y	0.003482	34	0	26.48	6.6
story2	seismic weight	Combination		X	5.3E-05	87	27.51	0	6.6
story2	seismic weight	Combination		Y	8.4E-05	34	0	26.48	6.6
story1	Dead	LinStatic		X	5E-05	93	27.51	10.9	3.6
story1	Dead	LinStatic		Y	6.8E-05	14	8.69	42.41	3.6
story1	Live	LinStatic		X	1.9E-05	93	27.51	10.9	3.6
story1	Live	LinStatic		Y	2.7E-05	14	8.69	42.41	3.6
story1	Floor finish	LinStatic		X	2.5E-05	93	27.51	10.9	3.6
story1	Floor finish	LinStatic		Y	3.5E-05	14	8.69	42.41	3.6
story1	sunken filling	LinStatic		X	9E-06	2	24.04	54.86	3.6
story1	sunken filling	LinStatic		Y	9E-06	26	5.56	34.59	3.6
story1	wall load	LinStatic		X	2.7E-05	93	27.51	10.9	3.6
story1	sesmic - X	LinStatic		X	0.003656	93	27.51	10.9	3.6
story1	sesmic - Y	LinStatic		Y	0.002384	109	8.53	52.39	3.6
story1	RSX	LinRespSpec	Max	X	0.003287	93	27.51	10.9	3.6
story1	RXY	LinRespSpec	Max	X	0.001115	105	16.42	55.02	3.6
story1	RXY	LinRespSpec	Max	Y	0.002494	42	79.17	8.76	3.6
story1	roof live	LinStatic		X	5E-06	18	18.97	39.74	3.6
story1	roof live	LinStatic		Y	4E-06	327	25.68	14.78	3.6
story1	(DL+LL)	Combination		X	0.000123	93	27.51	10.9	3.6
story1	(DL+LL)	Combination		Y	0.000159	14	8.69	42.41	3.6
story1	09DL+1.5EQX	Combination		X	0.005579	93	27.51	10.9	3.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story1	09DL-1.5EQX	Combination		X	0.005434	14	8.69	42.41	3.6
story1	0.9DL+1.5RSX	Combination	Max	X	0.005025	93	27.51	10.9	3.6
story1	0.9DL+1.5RSX	Combination	Min	X	0.004917	14	8.69	42.41	3.6
story1	0.9DL-1.5RSX	Combination	Max	X	0.005025	93	27.51	10.9	3.6
story1	0.9DL-1.5RSX	Combination	Min	X	0.004917	14	8.69	42.41	3.6
story1	09DL-1.5EQY	Combination		Y	0.003627	110	8.53	53.99	3.6
story1	09DL+1.5EQY	Combination		Y	0.003537	109	8.53	52.39	3.6
story1	0.9DL+1.5RSY	Combination	Max	X	0.00166	105	16.42	55.02	3.6
story1	0.9DL+1.5RSY	Combination	Max	Y	0.003769	42	79.17	8.76	3.6
story1	0.9DL+1.5RSY	Combination	Min	X	0.001684	105	16.42	55.02	3.6
story1	0.9DL+1.5RSY	Combination	Min	Y	0.003716	39	74.79	24.73	3.6
story1	0.9DL-1.5RSY	Combination	Max	X	0.00166	105	16.42	55.02	3.6
story1	0.9DL-1.5RSY	Combination	Max	Y	0.003769	42	79.17	8.76	3.6
story1	0.9DL-1.5RSY	Combination	Min	X	0.001684	105	16.42	55.02	3.6
story1	0.9DL-1.5RSY	Combination	Min	Y	0.003716	39	74.79	24.73	3.6
story1	1.2(DL+LL+EQX)	Combination		X	0.004535	93	27.51	10.9	3.6
story1	1.2(DL+LL-EQX)	Combination		X	0.004364	7	8.53	44.23	3.6
story1	1.2(DL+LL+RSX)	Combination	Max	X	0.004092	93	27.51	10.9	3.6
story1	1.2(DL+LL+RSX)	Combination	Min	X	0.003953	7	8.53	44.23	3.6
story1	1.2(DL+LL-RSX)	Combination	Max	X	0.004092	93	27.51	10.9	3.6
story1	1.2(DL+LL-RSX)	Combination	Min	X	0.003953	7	8.53	44.23	3.6
story1	1.2(DL+LL+EQY)	Combination		Y	0.002796	109	8.53	52.39	3.6
story1	1.2(DL+LL-EQY)	Combination		Y	0.002953	110	8.53	53.99	3.6
story1	1.2(DL+LL+RSY)	Combination	Max	X	0.001335	3	0	52.5	3.6
story1	1.2(DL+LL+RSY)	Combination	Max	Y	0.003035	42	79.17	8.76	3.6
story1	1.2(DL+LL+RSY)	Combination	Min	X	0.001364	1	27.32	54.86	3.6
story1	1.2(DL+LL+RSY)	Combination	Min	Y	0.003041	39	74.79	24.73	3.6
story1	1.2(DL+LL-RSY)	Combination	Max	X	0.001335	3	0	52.5	3.6
story1	1.2(DL+LL-RSY)	Combination	Max	Y	0.003035	42	79.17	8.76	3.6
story1	1.2(DL+LL-RSY)	Combination	Min	X	0.001364	1	27.32	54.86	3.6
story1	1.2(DL+LL-RSY)	Combination	Min	Y	0.003041	39	74.79	24.73	3.6
story1	1.5(DL+EQX)	Combination		X	0.005641	93	27.51	10.9	3.6
story1	1.5(DL+EQY)	Combination		Y	0.003511	109	8.53	52.39	3.6
story1	1.5(DL+RSX)	Combination	Max	X	0.005088	93	27.51	10.9	3.6
story1	1.5(DL+RSX)	Combination	Min	X	0.004923	7	8.53	44.23	3.6
story1	1.5(DL+RSY)	Combination	Max	X	0.001659	3	0	52.5	3.6
story1	1.5(DL+RSY)	Combination	Max	Y	0.003788	42	79.17	8.76	3.6
story1	1.5(DL+RSY)	Combination	Min	X	0.001694	1	27.32	54.86	3.6
story1	1.5(DL+RSY)	Combination	Min	Y	0.003771	39	74.79	24.73	3.6
story1	1.5(DL-EQX)	Combination		X	0.005438	14	8.69	42.41	3.6
story1	1.5(DL-EQY)	Combination		Y	0.00367	110	8.53	53.99	3.6
story1	1.5(DL-RSX)	Combination	Max	X	0.005088	93	27.51	10.9	3.6
story1	1.5(DL-RSX)	Combination	Min	X	0.004923	7	8.53	44.23	3.6
story1	1.5(DL-RSY)	Combination	Max	X	0.001659	3	0	52.5	3.6
story1	1.5(DL-RSY)	Combination	Max	Y	0.003788	42	79.17	8.76	3.6
story1	1.5(DL-RSY)	Combination	Min	X	0.001694	1	27.32	54.86	3.6
story1	1.5(DL-RSY)	Combination	Min	Y	0.003771	39	74.79	24.73	3.6
story1	DL+0.8LL+0.8EQX	Combination		X	0.003044	93	27.51	10.9	3.6
story1	DL+0.8LL+0.8EQY	Combination		Y	0.001855	109	8.53	52.39	3.6
story1	DL+0.8LL+0.8RSX	Combination		Y	0.001855	109	8.53	52.39	3.6
story1	DL+0.8LL-0.8EQX	Combination		X	0.002915	7	8.53	44.23	3.6
story1	DL+0.8LL-0.8EQY	Combination		Y	0.001983	110	8.53	53.99	3.6
story1	DL+0.8LL-0.8RSX	Combination	Max	X	0.002749	93	27.51	10.9	3.6
story1	DL+0.8LL-0.8RSX	Combination	Min	X	0.002641	7	8.53	44.23	3.6

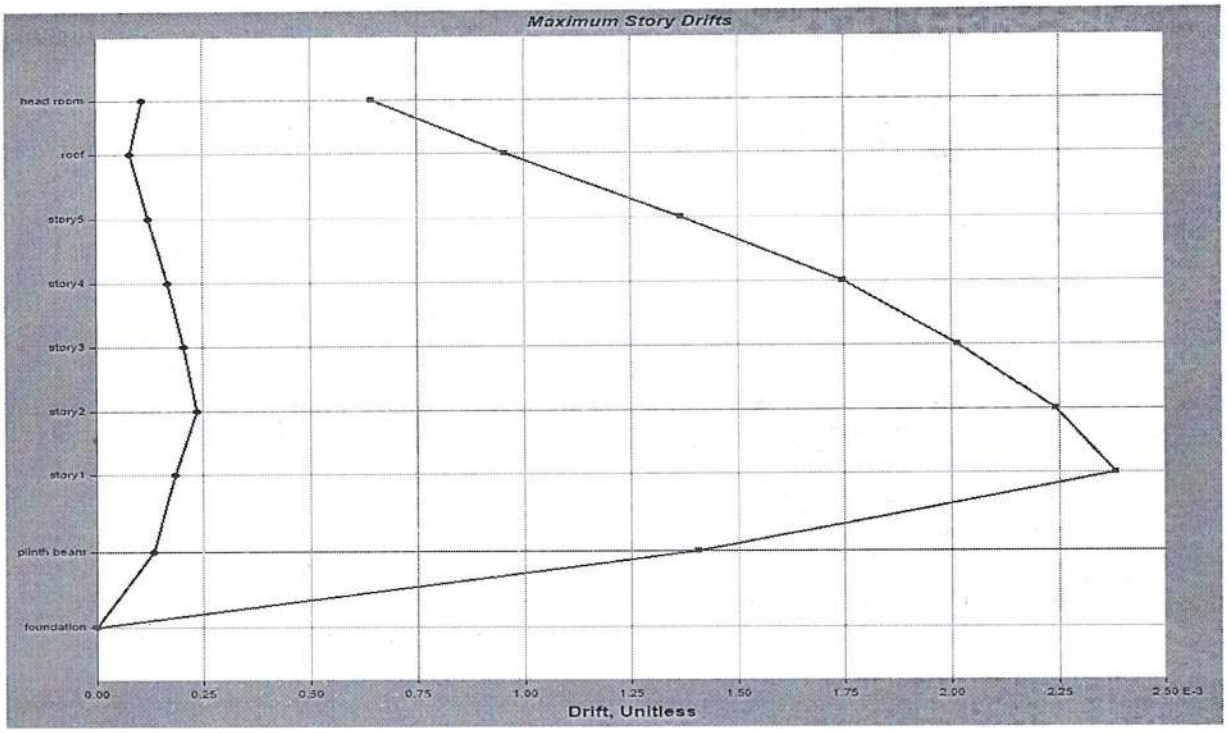
Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story1	DL+0.8LL+0.8RSY	Combination	Max	X	0.000905	3	0	52.5	3.6
story1	DL+0.8LL+0.8RSY	Combination	Max	Y	0.00203	42	79.17	8.76	3.6
story1	DL+0.8LL+0.8RSY	Combination	Min	X	0.000914	1	27.32	54.86	3.6
story1	DL+0.8LL+0.8RSY	Combination	Min	Y	0.002046	39	74.79	24.73	3.6
story1	DL+0.8LL-0.8RSY	Combination	Max	X	0.000905	3	0	52.5	3.6
story1	DL+0.8LL-0.8RSY	Combination	Max	Y	0.00203	42	79.17	8.76	3.6
story1	DL+0.8LL-0.8RSY	Combination	Min	X	0.000914	1	27.32	54.86	3.6
story1	DL+0.8LL-0.8RSY	Combination	Min	Y	0.002046	39	74.79	24.73	3.6
story1	DL+EQX	Combination		X	0.003761	93	27.51	10.9	3.6
story1	DL+EQY	Combination		Y	0.002341	109	8.53	52.39	3.6
story1	DL+RSX	Combination	Max	X	0.003392	93	27.51	10.9	3.6
story1	DL+RSX	Combination	Min	X	0.003282	7	8.53	44.23	3.6
story1	DL+RSY	Combination	Max	X	0.001106	3	0	52.5	3.6
story1	DL+RSY	Combination	Max	Y	0.002525	42	79.17	8.76	3.6
story1	DL+RSY	Combination	Min	X	0.001129	1	27.32	54.86	3.6
story1	DL+RSY	Combination	Min	Y	0.002514	39	74.79	24.73	3.6
story1	DL-EQX	Combination		X	0.003625	14	8.69	42.41	3.6
story1	DL-EQY	Combination		Y	0.002446	110	8.53	53.99	3.6
story1	DL-RSX	Combination	Max	X	0.003392	93	27.51	10.9	3.6
story1	DL-RSX	Combination	Min	X	0.003282	7	8.53	44.23	3.6
story1	DL-RSY	Combination	Max	X	0.001106	3	0	52.5	3.6
story1	DL-RSY	Combination	Max	Y	0.002525	42	79.17	8.76	3.6
story1	DL-RSY	Combination	Min	X	0.001129	1	27.32	54.86	3.6
story1	DL-RSY	Combination	Min	Y	0.002514	39	74.79	24.73	3.6
story1	1.5(DL+LL)	Combination		X	0.000184	93	27.51	10.9	3.6
story1	1.5(DL+LL)	Combination		Y	0.000238	14	8.69	42.41	3.6
story1	ultimate envelope	Combination	Max	X	0.005641	93	27.51	10.9	3.6
story1	ultimate envelope	Combination	Max	Y	0.003788	42	79.17	8.76	3.6
story1	ultimate envelope	Combination	Min	X	0.005438	14	8.69	42.41	3.6
story1	ultimate envelope	Combination	Min	Y	0.003771	39	74.79	24.73	3.6
story1	seismic weight	Combination		X	0.00011	93	27.51	10.9	3.6
story1	seismic weight	Combination		Y	0.000138	14	8.69	42.41	3.6
plinth beam	Dead	LinStatic		X	4.3E-05	3	0	52.5	0
plinth beam	Dead	LinStatic		Y	5.8E-05	147	31.59	7.77	0
plinth beam	Live	LinStatic		X	1.7E-05	93	27.51	10.9	0
plinth beam	Live	LinStatic		Y	2.2E-05	147	31.59	7.77	0
plinth beam	Floor finish	LinStatic		X	2.1E-05	93	27.51	10.9	0
plinth beam	Floor finish	LinStatic		Y	2.8E-05	147	31.59	7.77	0
plinth beam	sunken filling	LinStatic		X	7E-06	2	24.04	54.86	0
plinth beam	sunken filling	LinStatic		Y	9E-06	85	30.94	2.77	0
plinth beam	wall load	LinStatic		X	2.3E-05	62	68.35	7.77	0
plinth beam	wall load	LinStatic		Y	2.9E-05	147	31.59	7.77	0
plinth beam	sesmic - X	LinStatic		X	0.002461	57	61.07	16.54	0
plinth beam	sesmic - Y	LinStatic		Y	0.001408	95	31.47	16.38	0
plinth beam	RSX	LinRespSpec	Max	X	0.002277	57	61.07	16.54	0
plinth beam	RXY	LinRespSpec	Max	X	0.000776	105	16.42	55.02	0
plinth beam	RXY	LinRespSpec	Max	Y	0.001716	35	79.17	31.7	0
plinth beam	roof live	LinStatic		X	2E-06	545	25.68	22.78	0
plinth beam	roof live	LinStatic		Y	4E-06	327	25.68	14.78	0
plinth beam	(DL+LL)	Combination		X	0.000101	3	0	52.5	0
plinth beam	(DL+LL)	Combination		Y	0.000147	147	31.59	7.77	0
plinth beam	09DL+1.5EQX	Combination		X	0.003706	57	61.07	16.54	0
plinth beam	09DL-1.5EQX	Combination		X	0.003678	55	56.24	16.54	0
plinth beam	0.9DL+1.5RSX	Combination	Max	X	0.00343	57	61.07	16.54	0

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
plinth beam	0.9DL+1.5RSX	Combination	Min	X	0.003402	55	56.24	16.54	0
plinth beam	0.9DL-1.5RSX	Combination	Max	X	0.00343	57	61.07	16.54	0
plinth beam	0.9DL-1.5RSX	Combination	Min	X	0.003402	55	56.24	16.54	0
plinth beam	09DL-1.5EQY	Combination		Y	0.002142	34	0	26.48	0
plinth beam	09DL+1.5EQY	Combination		Y	0.002086	94	31.47	18.97	0
plinth beam	0.9DL+1.5RSY	Combination	Max	X	0.001168	1	27.32	54.86	0
plinth beam	0.9DL+1.5RSY	Combination	Max	Y	0.00258	35	79.17	31.7	0
plinth beam	0.9DL+1.5RSY	Combination	Min	X	0.001162	105	16.42	55.02	0
plinth beam	0.9DL+1.5RSY	Combination	Min	Y	0.002567	35	79.17	31.7	0
plinth beam	0.9DL-1.5RSY	Combination	Max	X	0.001168	1	27.32	54.86	0
plinth beam	0.9DL-1.5RSY	Combination	Max	Y	0.00258	35	79.17	31.7	0
plinth beam	0.9DL-1.5RSY	Combination	Min	X	0.001162	105	16.42	55.02	0
plinth beam	0.9DL-1.5RSY	Combination	Min	Y	0.002567	35	79.17	31.7	0
plinth beam	1.2(DL+LL+EQX)	Combination		X	0.002976	57	61.07	16.54	0
plinth beam	1.2(DL+LL-EQX)	Combination		X	0.002932	55	56.24	16.54	0
plinth beam	1.2(DL+LL+RSX)	Combination	Max	X	0.002755	57	61.07	16.54	0
plinth beam	1.2(DL+LL+RSX)	Combination	Min	X	0.002712	55	56.24	16.54	0
plinth beam	1.2(DL+LL-RSX)	Combination	Max	X	0.002755	57	61.07	16.54	0
plinth beam	1.2(DL+LL-RSX)	Combination	Min	X	0.002712	55	56.24	16.54	0
plinth beam	1.2(DL+LL+EQY)	Combination		Y	0.001693	14	8.69	42.41	0
plinth beam	1.2(DL+LL-EQY)	Combination		Y	0.001742	34	0	26.48	0
plinth beam	1.2(DL+LL+RSY)	Combination	Max	X	0.000937	1	27.32	54.86	0
plinth beam	1.2(DL+LL+RSY)	Combination	Max	Y	0.002069	35	79.17	31.7	0
plinth beam	1.2(DL+LL+RSY)	Combination	Min	X	0.000955	3	0	52.5	0
plinth beam	1.2(DL+LL+RSY)	Combination	Min	Y	0.002062	44	79.17	12.53	0
plinth beam	1.2(DL+LL-RSY)	Combination	Max	X	0.000937	1	27.32	54.86	0
plinth beam	1.2(DL+LL-RSY)	Combination	Max	Y	0.002069	35	79.17	31.7	0
plinth beam	1.2(DL+LL-RSY)	Combination	Min	X	0.000955	3	0	52.5	0
plinth beam	1.2(DL+LL-RSY)	Combination	Min	Y	0.002062	44	79.17	12.53	0
plinth beam	1.5(DL+EQX)	Combination		X	0.003716	57	61.07	16.54	0
plinth beam	1.5(DL+EQY)	Combination		Y	0.002097	14	8.69	42.41	0
plinth beam	1.5(DL+RSX)	Combination	Max	X	0.00344	57	61.07	16.54	0
plinth beam	1.5(DL+RSX)	Combination	Min	X	0.003393	55	56.24	16.54	0
plinth beam	1.5(DL+RSY)	Combination	Max	X	0.001174	1	27.32	54.86	0
plinth beam	1.5(DL+RSY)	Combination	Max	Y	0.002585	35	79.17	31.7	0
plinth beam	1.5(DL+RSY)	Combination	Min	X	0.00117	3	0	52.5	0
plinth beam	1.5(DL+RSY)	Combination	Min	Y	0.002574	44	79.17	12.53	0
plinth beam	1.5(DL-EQX)	Combination		X	0.003669	55	56.24	16.54	0
plinth beam	1.5(DL-EQY)	Combination		Y	0.002167	34	0	26.48	0
plinth beam	1.5(DL-RSX)	Combination	Max	X	0.00344	57	61.07	16.54	0
plinth beam	1.5(DL-RSX)	Combination	Min	X	0.003393	55	56.24	16.54	0
plinth beam	1.5(DL-RSY)	Combination	Max	X	0.001174	1	27.32	54.86	0
plinth beam	1.5(DL-RSY)	Combination	Max	Y	0.002585	35	79.17	31.7	0
plinth beam	1.5(DL-RSY)	Combination	Min	X	0.00117	3	0	52.5	0
plinth beam	1.5(DL-RSY)	Combination	Min	Y	0.002574	44	79.17	12.53	0
plinth beam	DL+0.8LL+0.8EQX	Combination		X	0.001987	57	61.07	16.54	0
plinth beam	DL+0.8LL+0.8EQY	Combination		Y	0.001142	14	8.69	42.41	0
plinth beam	DL+0.8LL+0.8RSX	Combination		Y	0.001142	14	8.69	42.41	0
plinth beam	DL+0.8LL-0.8EQX	Combination		X	0.001959	3	0	52.5	0
plinth beam	DL+0.8LL-0.8EQY	Combination		Y	0.00117	34	0	26.48	0
plinth beam	DL+0.8LL-0.8RSX	Combination	Max	X	0.00184	57	61.07	16.54	0
plinth beam	DL+0.8LL-0.8RSX	Combination	Min	X	0.001824	3	0	52.5	0
plinth beam	DL+0.8LL+0.8RSY	Combination	Max	X	0.000627	1	27.32	54.86	0
plinth beam	DL+0.8LL+0.8RSY	Combination	Max	Y	0.001388	41	74.79	19.43	0

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
plinth beam	DL+0.8LL+0.8RSY	Combination	Min	X	0.000654	3	0	52.5	0
plinth beam	DL+0.8LL+0.8RSY	Combination	Min	Y	0.001378	44	79.17	12.53	0
plinth beam	DL+0.8LL-0.8RSY	Combination	Max	X	0.000627	1	27.32	54.86	0
plinth beam	DL+0.8LL-0.8RSY	Combination	Max	Y	0.001388	41	74.79	19.43	0
plinth beam	DL+0.8LL-0.8RSY	Combination	Min	X	0.000654	3	0	52.5	0
plinth beam	DL+0.8LL-0.8RSY	Combination	Min	Y	0.001378	44	79.17	12.53	0
plinth beam	DL+EQX	Combination		X	0.002477	57	61.07	16.54	0
plinth beam	DL+EQY	Combination		Y	0.001398	14	8.69	42.41	0
plinth beam	DL+RSX	Combination	Max	X	0.002293	57	61.07	16.54	0
plinth beam	DL+RSX	Combination	Min	X	0.002262	55	56.24	16.54	0
plinth beam	DL+RSY	Combination	Max	X	0.000783	1	27.32	54.86	0
plinth beam	DL+RSY	Combination	Max	Y	0.001723	35	79.17	31.7	0
plinth beam	DL+RSY	Combination	Min	X	0.00078	3	0	52.5	0
plinth beam	DL+RSY	Combination	Min	Y	0.001716	44	79.17	12.53	0
plinth beam	DL-EQX	Combination		X	0.002446	55	56.24	16.54	0
plinth beam	DL-EQY	Combination		Y	0.001445	34	0	26.48	0
plinth beam	DL-RSX	Combination	Max	X	0.002293	57	61.07	16.54	0
plinth beam	DL-RSX	Combination	Min	X	0.002262	55	56.24	16.54	0
plinth beam	DL-RSY	Combination	Max	X	0.000783	1	27.32	54.86	0
plinth beam	DL-RSY	Combination	Max	Y	0.001723	35	79.17	31.7	0
plinth beam	DL-RSY	Combination	Min	X	0.00078	3	0	52.5	0
plinth beam	DL-RSY	Combination	Min	Y	0.001716	44	79.17	12.53	0
plinth beam	1.5(DL+LL)	Combination		X	0.000152	3	0	52.5	0
plinth beam	1.5(DL+LL)	Combination		Y	0.000221	147	31.59	7.77	0
plinth beam	ultimate envelope	Combination	Max	X	0.003716	57	61.07	16.54	0
plinth beam	ultimate envelope	Combination	Max	Y	0.002585	35	79.17	31.7	0
plinth beam	ultimate envelope	Combination	Min	X	0.003678	55	56.24	16.54	0
plinth beam	ultimate envelope	Combination	Min	Y	0.002574	44	79.17	12.53	0
plinth beam	seismic weight	Combination		X	8.9E-05	3	0	52.5	0
plinth beam	seismic weight	Combination		Y	0.00013	147	31.59	7.77	0



Drift in X-direction



Drift in Y-direction

4.2 Modal Results

Table 4.2 - Modal Participating Mass Ratios (Part 1 of 2)

Case	Mode	Period sec	UX	UY	UZ	SumUX	SumUY	SumUZ	RX	RY	RZ
Modal	1	1.683	0.922	3.863E-05	0	0.922	3.863E-05	0	8.437E-06	0.082	0.0001
Modal	2	1.428	0.0002	0.3532	0	0.9221	0.3532	0	0.0442	1.287E-05	0.5463
Modal	3	1.305	3.779E-06	0.5423	0	0.9221	0.8955	0	0.0672	4.714E-06	0.3569
Modal	4	0.494	0.0507	9.398E-06	0	0.9729	0.8955	0	2.412E-05	0.7934	0
Modal	5	0.416	2.831E-06	0.0255	0	0.9729	0.921	0	0.2667	0.0001	0.041
Modal	6	0.382	0	0.0443	0	0.9729	0.9653	0	0.4746	4.66E-06	0.024
Modal	7	0.256	0.0098	0	0	0.9826	0.9653	0	3.748E-06	0.0234	2.429E-06
Modal	8	0.206	0	0.0054	0	0.9826	0.9708	0	0.0153	0	0.0092
Modal	9	0.189	0	0.0103	0	0.9826	0.981	0	0.0297	6.288E-07	0.0042
Modal	10	0.182	0	0	0	0.9826	0.981	0	1.397E-06	0	0
Modal	11	0.179	2.591E-06	1.223E-05	0	0.9826	0.981	0	0.0001	1.583E-05	2.274E-05
Modal	12	0.179	5.704E-07	0	0	0.9826	0.981	0	4.227E-06	3.831E-06	0

Table 4.2 - Modal Participating Mass Ratios (Part 2 of 2)

SumRX	SumRY	SumRZ
8.437E-06	0.082	0.0001
0.0442	0.082	0.5464
0.1114	0.082	0.9033
0.1114	0.8754	0.9033
0.3781	0.8755	0.9443
0.8528	0.8755	0.9683
0.8528	0.8989	0.9683

SumRX	SumRY	SumRZ
0.868	0.8989	0.9775
0.8977	0.8989	0.9817
0.8977	0.8989	0.9817
0.8978	0.8989	0.9817
0.8978	0.8989	0.9817

Table 4.3 - Modal Load Participation Ratios

Case	ItemType	Item	Static %	Dynamic %
Modal	Acceleration	UX	99.99	98.26
Modal	Acceleration	UY	99.99	98.1
Modal	Acceleration	UZ	0	0

DESIGN OF ISOLATED SQUARE FOOTING: (C92)

Load in kn (P)	3820	Breadth of pedestal	380
SBC in kn/m^2	120	Length of pedestal	750
Size of the footing required (B)	5.642104	Free end thickness	230
Net upward pressure (q)	119.6648	Size provided in m	5.65
Maximum bending moment @ face of the column (Mu)	3520.768	Size in feet	18.53
Depth required (d)	1290.311	Depth provided (d)	1200
K	4.613166		
Pt	1.118		
Ast in mm^2	7110.48		
Spacing of 10mm dia	62.40802		
Spacing of 12mm dia	89.86946		
Spacing of 16mm dia	159.7626		

Check for one way shear:

Shear force (V)	1455.319		
Eff. Depth (d')	773.7305		
Top width	2930		
Tv	0.641949	Tc from table-19	0.68
Pt	0.9		Safe in SHEAR
Ast in mm^2	20403.27		
Spacing of 10mm dia	21.74901		
Spacing of 12mm dia	31.31924		
Spacing of 16mm dia	55.6768		

Check for two way shear:

Punching shear (Vp)	5176.969
Perimeter of the critical section	7060
Eff. Depth (d')	1001.074
Tv	0.732495

Tc	1.369306	Punching Ratio	0.53

Check for transfer of load @ the column base:

Safe in punching

Permissible bearing stress	27
Actual bearing stress	13.40351

Design of short column with bi axial bending: C92

Description	GF
Axial load in Kn	4638
Moment in Knm (Mux)	365
Moment in Knm (Muy)	93
Assumed length of column in mm (D)	750
Assumed breadth of column in mm (B)	380
Assumed % of steel	2.1
Grade of concrete	30
p/fck	0.07
d'/D	0.0666
d'/B	0.1315
Pu/(fck*B*D)	0.5424
Referring to chart in SP-16	chart-48
Value from chart	0.07
Mux1 in Knm	448.875
Referring to chart in SP-16	chart-49
Value from chart	0.06
Muy1 in Knm	194.94
Referring to chart-63 of SP-16	
Puz/ Ag	21.5
Puz in Kn	6127.5
Pu/Puz	0.7569
Mux/Mux1	0.8131
Muy/Muy1	0.4770
Referring to chart-64 of SP-16	
Permissible Muy/Muy1	0.55
Check	safe and assumed % of steel is correct
Ast required	5985
Provide steel	12nos25mm dia

Dia of lateral ties:		
Dia of main rod provided	25	
6mm	6mm	
1/4 times Dia of main rod	6.25	
Dia of lateral ties choosen	8mm	
Spacing of lateral ties:		
16 times the dia of main rod		400
Least lateral dimension of column		380
Provide 8mm dia 2 legged lateral ties @	175 mm c/c	

Design of Floor Slab:

Assume the slab thickness as 150 mm

Dead load of slab (0.15 x 25)	=	3.75 kn/m^2
Live load	=	2.00 kn/m^2
Partition wall load	=	1.00 kn/m^2
Floor finish load	=	1.00 kn/m^2
		7.75 kn/m^2

Say w = 8.0 kn/m^2

Long span L_y = 4.99 m

Short span L_x = 4.19 m

L_y / L_x = 1.19 < 2.0

To design as two way slab with two short edges as continuous & slab thickness as 140mm

Positive moment @ mid span = 0.051 x 1.5 x 8 x 4.19^2

= 10.74knm

Negative moment @ edges = 0.045 x 1.5 x 8 x 4.19^2

= 9.48knm

Referring to the table – 37 of SP – 16 and assuming the slab thickness as 140mm

Provide 8mm dia @ 130mm c/c along shorter span and 8mm dia @ 150mm c/c along the longer span with alternate rods cranked @ 0.2 times of respective span

Check for deflection:

Permissible span / depth = 26 x 1.3 (referring to chart 22)

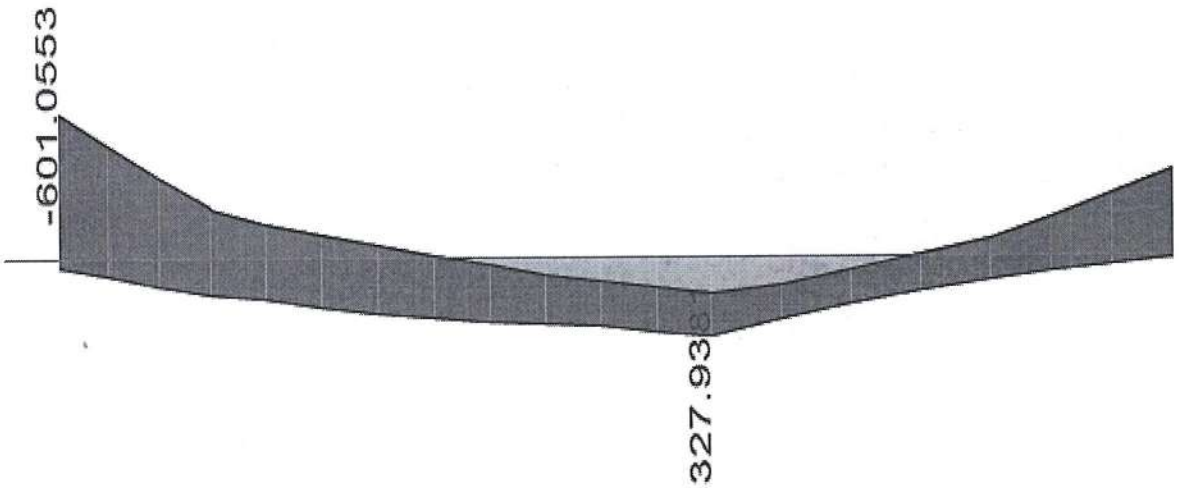
= 33.80

Actual deflection = 4190 / 125

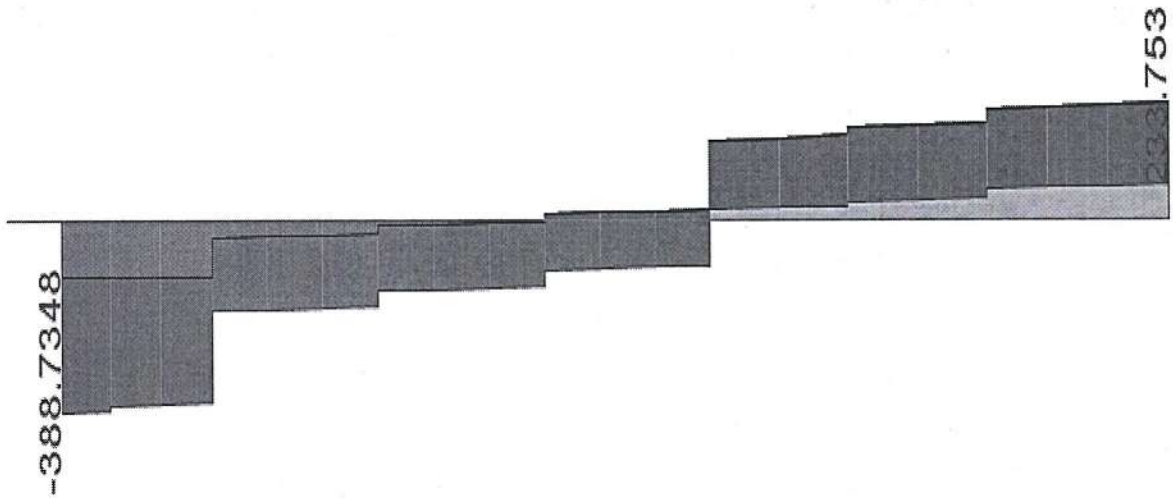
= 33.52 < 33.80

Hence safe

Design of critical floor beam:



Critical Bending Moment Diagram



Critical Shear Force Diagram

Assume beam size as 230mm x 750mm

Max factored B.M @ top of support = 602knm

K = 4.98, Pt= 1.377, Pc = 0.259

A_{st} = 2297 mm^2 A_{sc} = 432 mm^2

Therefore provide 4-25+1-20mm dia@ top of support

Max factored moment @ bottom = 328knm

K = 2.72, Pt = 0.719

A_{st} = 1199 mm^2

Therefore provide 3-20+2-16mm dia @ bottom

Factored shear force @ support = 389kn

V_{us} = 389000 – (0.72 x 230 x 725)

V_{us}/d = 3.71kn/cm

Referring to Table – 62 of SP-16, provide 8mm dia stirrups @ 90mm c/c

end of report

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