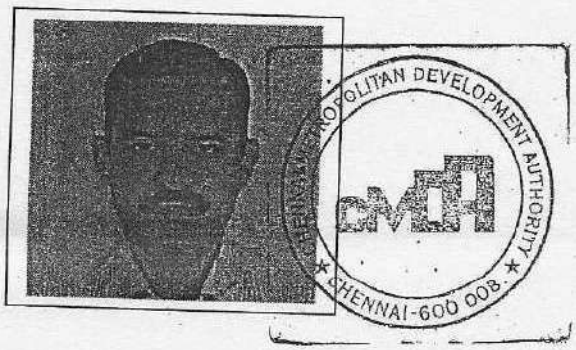
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
'ThalamuthuNatarajan Building', No.1, Gandhi Irwin Road,
Egmore, Chennai-600 008.

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

25.02.2026

STABILITY CERTIFICATE

1. The detailed engineering and structure design of the proposed building comprising of stilt + five floors "NEST FAB" at Lakshmi Nagar Layout Road, Varadharajapuram village, Kundrathur taluk, Kancheepuram district – 600 048, comprised in S.No: 25/2A1, 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)10072A dated 26.09.2025 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.

Geo Technical Report:

As per Nagadi Consultants (P) Ltd., geo technical report G(C) 10072A dated 26.09.2025, the foundation recommendations are:

(i) type of foundation	=	Isolated / combined
(ii) Depth of foundation	=	3.00 m
(iii) SBC @ 3.00 m depth	=	180kn/m^2

Floor Heights Considered:

Foundation depth	=	3.00m
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 cross verified by manual calculations in accordance with IS 456 – 2000, IS 1893 - 2016 and SP – 16.

Materials:

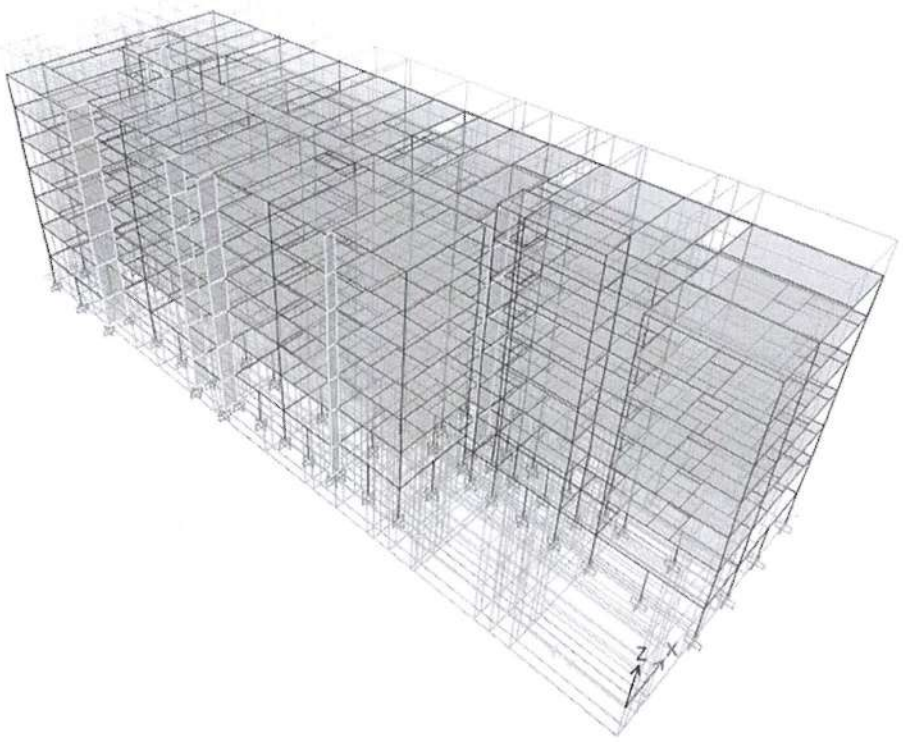
The following recommendations of materials are to be used

(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®



Nest Fab – stilt + 5 floors

Model File: stilt+5 floors, Revision 0
26-Feb-26

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	headroom	2.5	No	None	No	Magenta
T1	roof	3	No	story 1	No	Yellow
T1	story 5	3	No	story 1	No	Gray8Dark
T1	story 4	3	No	story 1	No	Blue
T1	story 3	3	No	story 1	No	Green
T1	story 2	3	No	story 1	No	Cyan
T1	story 1	3.6	Yes	None	No	Red
T1	plinth beam	3	No	None	No	Magenta

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	S33Neg cm3
B230x125	M30	Concrete Rectangular	Green	287.5	9884.3	3743.5	12674	239.6	239.6	599	599
B230x380	M30	Concrete Rectangular	Red	874	96006	105171.3	38528.8	728.3	728.3	5535.3	5535.3
B230x450	M30	Concrete Rectangular	Magenta	1035	124072.6	174656.3	45626.3	862.5	862.5	7762.5	7762.5
B230x525	M30	Concrete Rectangular	Blue	1207.5	154336.3	277347.7	53230.6	1006.2	1006.2	10565.6	10565.6
B230x600	M30	Concrete Rectangular	Red	1380	184679.1	414000	60835	1150	1150	13800	13800
B230x675	M30	Concrete Rectangular	Blue	1552.5	215056.9	589464.8	68439.4	1293.7	1293.7	17465.6	17465.6
B230x750	M30	Concrete Rectangular	Magenta	1725	245451.7	808593.8	76043.8	1437.5	1437.5	21562.5	21562.5
C230x300	M30	Concrete Rectangular	Cyan	690	64595.3	51750	30417.5	575	575	3450	3450
C230x450	M30	Concrete Rectangular	Yellow	1035	124072.6	174656.3	45626.3	862.5	862.5	7762.5	7762.5
C230x525	M30	Concrete Rectangular	Gray8Dark	1207.5	154336.3	277347.7	53230.6	1006.2	1006.2	10565.6	10565.6
C230x600	M30	Concrete Rectangular	Blue	1380	184679.1	414000	60835	1150	1150	13800	13800
C230x675	M30	Concrete Rectangular	Cyan	1552.5	215056.9	589464.8	68439.4	1293.7	1293.7	17465.6	17465.6

Name	Material	Shape	Color	Area cm2	J cm4	I33 cm4	I22 cm4	As2 cm2	As3 cm2	S33Pos cm3	S33Neg cm3
C300x525	M30	Concrete Rectangular	Blue	1575	303911.4	361757.8	118125	1312.5	1312.5	13781.3	13781.3
C300x600	M30	Concrete Rectangular	Green	1800	370785.9	540000	135000	1500	1500	18000	18000
C300x675	M30	Concrete Rectangular	Cyan	2025	437953.1	768867.2	151875	1687.5	1687.5	22781.3	22781.3
C300x750	M30	Concrete Rectangular	Cyan	2250	505262.9	1054687.5	168750	1875	1875	28125	28125
C380x750	M30	Concrete Rectangular	Red	2850	936326.1	1335937.5	342950	2375	2375	35625	35625
D230x230	M30	Concrete Rectangular	Magenta	529	39410.9	23320.1	23320.1	440.8	440.8	2027.8	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
Slab1	Slab	Shell-Thin	M30	125		
Wall1	Wall	Shell-Thin	M30	230		
Wall2	Wall	Shell-Thin	M30	300		
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] $Z = 0.16$

$R = 5$

$I = 1.2$

Seismic Response

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

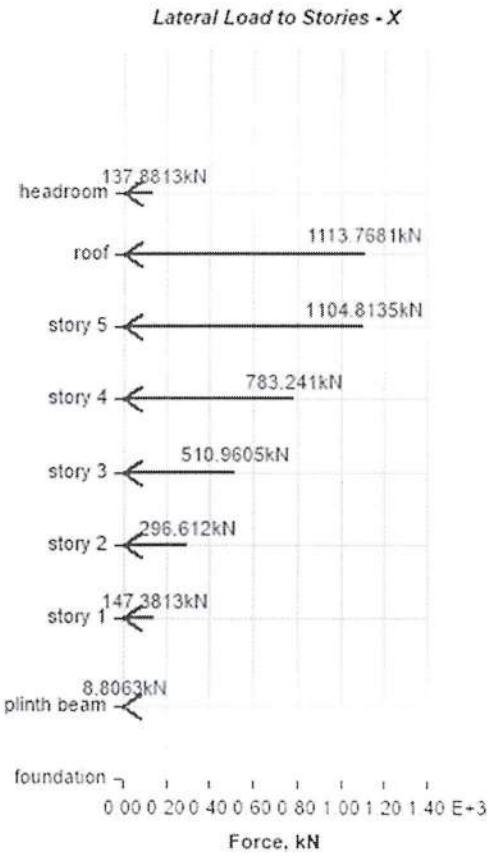
Equivalent Lateral Forces

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	85488.8349	4103.4641

Applied Story Forces



Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
headroom	21.1	137.8813	0
roof	18.6	1113.7681	0
story 5	15.6	1104.8135	0
story 4	12.6	783.241	0
story 3	9.6	510.9605	0
story 2	6.6	296.612	0
story 1	3.6	147.3813	0
plinth beam	0	8.8063	0
foundation	-3	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] $\frac{S_a}{g} = 2.5$ $\frac{S_a}{g} = 2.5$

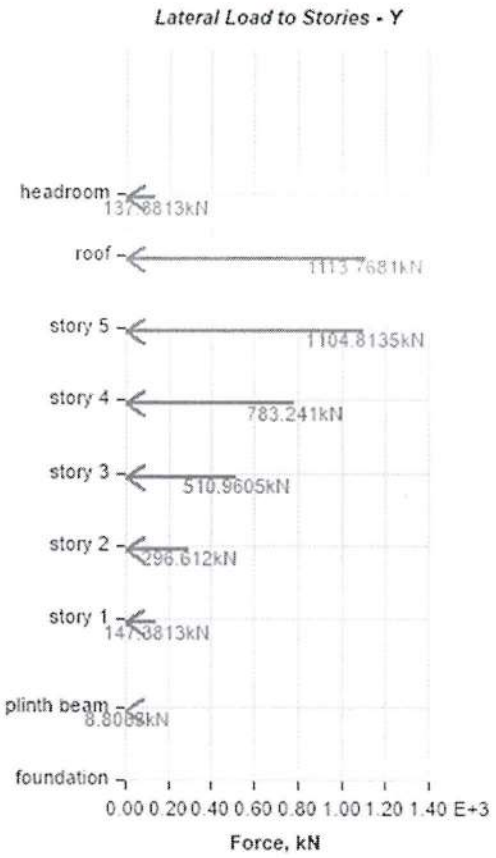
Equivalent Lateral Forces

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	85488.8349	4103.4641

Applied Story Forces



Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
headroom	21.1	0	137.8813
roof	18.6	0	1113.7681
story 5	15.6	0	1104.8135
story 4	12.6	0	783.241
story 3	9.6	0	510.9605
story 2	6.6	0	296.612
story 1	3.6	0	147.3813
plinth beam	0	0	8.8063
foundation	-3	0	0

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	
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	

Name	Type	Is Auto	Load Name	SF	Notes
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	
1.5(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	

Name	Type	Is Auto	Load Name	SF	Notes
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	
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	

Name	Type	Is Auto	Load Name	SF	Notes
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	
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	

Name	Type	Is Auto	Load Name	SF	Notes
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	
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
headroom	Dead	LinStatic		X	0.000227	86	11.62	48.81	21.1
headroom	Dead	LinStatic		Y	0.000103	27	7.09	48.81	21.1
headroom	Live	LinStatic		X	7.2E-05	74	11.47	10.74	21.1
headroom	Live	LinStatic		Y	2.9E-05	74	11.47	10.74	21.1
headroom	Floor finish	LinStatic		X	0.000117	86	11.62	48.81	21.1
headroom	Floor finish	LinStatic		Y	5E-05	27	7.09	48.81	21.1
headroom	sunken filling	LinStatic		X	2.1E-05	68	8.88	18.36	21.1
headroom	sunken filling	LinStatic		Y	4E-06	86	11.62	48.81	21.1
headroom	wall load	LinStatic		X	3.7E-05	86	11.62	48.81	21.1
headroom	wall load	LinStatic		Y	9.3E-05	67	11.47	18.36	21.1
headroom	sesmic - X	LinStatic		X	0.001173	74	11.47	10.74	21.1
headroom	sesmic - Y	LinStatic		X	0.000226	75	8.88	10.74	21.1
headroom	sesmic - Y	LinStatic		Y	0.000717	67	11.47	18.36	21.1
headroom	RSX	LinRespSpec	Max	X	0.000994	74	11.47	10.74	21.1
headroom	RSX	LinRespSpec	Max	Y	0.000157	13	7.09	53.34	21.1
headroom	RXY	LinRespSpec	Max	X	0.000369	74	11.47	10.74	21.1
headroom	RXY	LinRespSpec	Max	Y	0.000538	67	11.47	18.36	21.1
headroom	roof live	LinStatic		X	0.000128	86	11.62	48.81	21.1
headroom	roof live	LinStatic		Y	5E-05	86	11.62	48.81	21.1
headroom	(DL+LL)	Combination		X	0.00053	86	11.62	48.81	21.1
headroom	(DL+LL)	Combination		Y	0.000259	13	7.09	53.34	21.1
headroom	09DL+1.5EQX	Combination		X	0.001994	74	11.47	10.74	21.1
headroom	09DL-1.5EQX	Combination		X	0.001525	74	11.47	10.74	21.1
headroom	09DL-1.5EQX	Combination		Y	0.000308	13	7.09	53.34	21.1
headroom	0.9DL+1.5RSX	Combination	Max	X	0.001725	74	11.47	10.74	21.1
headroom	0.9DL+1.5RSX	Combination	Min	X	0.001256	74	11.47	10.74	21.1
headroom	0.9DL+1.5RSX	Combination	Min	Y	0.000447	27	7.09	48.81	21.1
headroom	0.9DL-1.5RSX	Combination	Max	X	0.001725	74	11.47	10.74	21.1
headroom	0.9DL-1.5RSX	Combination	Min	X	0.001256	74	11.47	10.74	21.1
headroom	0.9DL-1.5RSX	Combination	Min	Y	0.000447	27	7.09	48.81	21.1
headroom	09DL-1.5EQY	Combination		Y	0.001257	67	11.47	18.36	21.1
headroom	09DL+1.5EQY	Combination		X	0.000573	75	8.88	10.74	21.1
headroom	09DL+1.5EQY	Combination		Y	0.000895	67	11.47	18.36	21.1
headroom	0.9DL+1.5RSY	Combination	Max	X	0.000789	74	11.47	10.74	21.1
headroom	0.9DL+1.5RSY	Combination	Max	Y	0.000626	67	11.47	18.36	21.1
headroom	0.9DL+1.5RSY	Combination	Min	Y	0.000988	67	11.47	18.36	21.1
headroom	0.9DL-1.5RSY	Combination	Max	X	0.000789	74	11.47	10.74	21.1
headroom	0.9DL-1.5RSY	Combination	Max	Y	0.000626	67	11.47	18.36	21.1
headroom	0.9DL-1.5RSY	Combination	Min	Y	0.000988	67	11.47	18.36	21.1
headroom	1.2(DL+LL+EQX)	Combination		X	0.001783	74	11.47	10.74	21.1
headroom	1.2(DL+LL+EQX)	Combination		Y	0.00028	68	8.88	18.36	21.1
headroom	1.2(DL+LL-EQX)	Combination		X	0.001031	74	11.47	10.74	21.1
headroom	1.2(DL+LL-EQX)	Combination		Y	0.000389	13	7.09	53.34	21.1
headroom	1.2(DL+LL+RSX)	Combination	Max	X	0.001568	74	11.47	10.74	21.1
headroom	1.2(DL+LL+RSX)	Combination	Max	Y	0.000252	67	11.47	18.36	21.1
headroom	1.2(DL+LL+RSX)	Combination	Min	X	0.000816	74	11.47	10.74	21.1
headroom	1.2(DL+LL+RSX)	Combination	Min	Y	0.000499	13	7.09	53.34	21.1
headroom	1.2(DL+LL-RSX)	Combination	Max	X	0.001568	74	11.47	10.74	21.1

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
headroom	1.2(DL+LL-RSX)	Combination	Max	Y	0.000252	67	11.47	18.36	21.1
headroom	1.2(DL+LL-RSX)	Combination	Min	X	0.000816	74	11.47	10.74	21.1
headroom	1.2(DL+LL-RSX)	Combination	Min	Y	0.000499	13	7.09	53.34	21.1
headroom	1.2(DL+LL+EQY)	Combination		X	0.000675	86	11.62	48.81	21.1
headroom	1.2(DL+LL+EQY)	Combination		Y	0.000573	74	11.47	10.74	21.1
headroom	1.2(DL+LL-EQY)	Combination		X	0.000597	86	11.62	48.81	21.1
headroom	1.2(DL+LL-EQY)	Combination		Y	0.00117	67	11.47	18.36	21.1
headroom	1.2(DL+LL+RSY)	Combination	Max	X	0.000819	74	11.47	10.74	21.1
headroom	1.2(DL+LL+RSY)	Combination	Max	Y	0.000362	74	11.47	10.74	21.1
headroom	1.2(DL+LL+RSY)	Combination	Min	X	0.000611	86	11.62	48.81	21.1
headroom	1.2(DL+LL+RSY)	Combination	Min	Y	0.000955	67	11.47	18.36	21.1
headroom	1.2(DL+LL-RSY)	Combination	Max	X	0.000819	74	11.47	10.74	21.1
headroom	1.2(DL+LL-RSY)	Combination	Max	Y	0.000362	74	11.47	10.74	21.1
headroom	1.2(DL+LL-RSY)	Combination	Min	X	0.000611	86	11.62	48.81	21.1
headroom	1.2(DL+LL-RSY)	Combination	Min	Y	0.000955	67	11.47	18.36	21.1
headroom	1.5(DL+EQX)	Combination		X	0.00215	74	11.47	10.74	21.1
headroom	1.5(DL+EQX)	Combination		Y	0.000286	68	8.88	18.36	21.1
headroom	1.5(DL+EQY)	Combination		X	0.00073	75	8.88	10.74	21.1
headroom	1.5(DL+EQY)	Combination		Y	0.000774	67	11.47	18.36	21.1
headroom	1.5(DL+RSX)	Combination	Max	X	0.001882	74	11.47	10.74	21.1
headroom	1.5(DL+RSX)	Combination	Min	X	0.001099	74	11.47	10.74	21.1
headroom	1.5(DL+RSX)	Combination	Min	Y	0.000589	27	7.09	48.81	21.1
headroom	1.5(DL+RSY)	Combination	Max	X	0.000945	74	11.47	10.74	21.1
headroom	1.5(DL+RSY)	Combination	Max	Y	0.000505	67	11.47	18.36	21.1
headroom	1.5(DL+RSY)	Combination	Min	X	0.00054	86	11.62	48.81	21.1
headroom	1.5(DL+RSY)	Combination	Min	Y	0.001109	67	11.47	18.36	21.1
headroom	1.5(DL-EQX)	Combination		X	0.001368	74	11.47	10.74	21.1
headroom	1.5(DL-EQX)	Combination		Y	0.00045	27	7.09	48.81	21.1
headroom	1.5(DL-EQY)	Combination		X	0.000523	86	11.62	48.81	21.1
headroom	1.5(DL-EQY)	Combination		Y	0.001377	67	11.47	18.36	21.1
headroom	1.5(DL-RSX)	Combination	Max	X	0.001882	74	11.47	10.74	21.1
headroom	1.5(DL-RSX)	Combination	Min	X	0.001099	74	11.47	10.74	21.1
headroom	1.5(DL-RSX)	Combination	Min	Y	0.000589	27	7.09	48.81	21.1
headroom	1.5(DL-RSY)	Combination	Max	X	0.000945	74	11.47	10.74	21.1
headroom	1.5(DL-RSY)	Combination	Max	Y	0.000505	67	11.47	18.36	21.1
headroom	1.5(DL-RSY)	Combination	Min	X	0.00054	86	11.62	48.81	21.1
headroom	1.5(DL-RSY)	Combination	Min	Y	0.001109	67	11.47	18.36	21.1
headroom	DL+0.8LL+0.8EQX	Combination		X	0.001241	74	11.47	10.74	21.1
headroom	DL+0.8LL+0.8EQX	Combination		Y	0.000223	68	8.88	18.36	21.1
headroom	DL+0.8LL+0.8EQY	Combination		X	0.000526	86	11.62	48.81	21.1
headroom	DL+0.8LL+0.8EQY	Combination		Y	0.000345	75	8.88	10.74	21.1
headroom	DL+0.8LL+0.8RSX	Combination		X	0.000526	86	11.62	48.81	21.1
headroom	DL+0.8LL+0.8RSX	Combination		Y	0.000345	75	8.88	10.74	21.1
headroom	DL+0.8LL-0.8EQX	Combination		X	0.000635	74	11.47	10.74	21.1
headroom	DL+0.8LL-0.8EQX	Combination		Y	0.000306	13	7.09	53.34	21.1
headroom	DL+0.8LL-0.8EQY	Combination		X	0.000474	86	11.62	48.81	21.1
headroom	DL+0.8LL-0.8EQY	Combination		Y	0.00082	67	11.47	18.36	21.1
headroom	DL+0.8LL-0.8RSX	Combination	Max	X	0.001098	74	11.47	10.74	21.1
headroom	DL+0.8LL-0.8RSX	Combination	Max	Y	0.000208	67	11.47	18.36	21.1
headroom	DL+0.8LL-0.8RSX	Combination	Min	X	0.000492	74	11.47	10.74	21.1
headroom	DL+0.8LL-0.8RSX	Combination	Min	Y	0.00038	13	7.09	53.34	21.1
headroom	DL+0.8LL+0.8RSY	Combination	Max	X	0.000598	74	11.47	10.74	21.1
headroom	DL+0.8LL+0.8RSY	Combination	Max	Y	0.000206	75	8.88	10.74	21.1
headroom	DL+0.8LL+0.8RSY	Combination	Min	X	0.000483	86	11.62	48.81	21.1
headroom	DL+0.8LL+0.8RSY	Combination	Min	Y	0.000677	67	11.47	18.36	21.1

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
headroom	DL+0.8LL-0.8RSY	Combination	Max	X	0.000598	74	11.47	10.74	21.1
headroom	DL+0.8LL-0.8RSY	Combination	Max	Y	0.000206	75	8.88	10.74	21.1
headroom	DL+0.8LL-0.8RSY	Combination	Min	X	0.000483	86	11.62	48.81	21.1
headroom	DL+0.8LL-0.8RSY	Combination	Min	Y	0.000677	67	11.47	18.36	21.1
headroom	DL+EQX	Combination		X	0.001434	74	11.47	10.74	21.1
headroom	DL+EQX	Combination		Y	0.000191	68	8.88	18.36	21.1
headroom	DL+EQY	Combination		X	0.000487	75	8.88	10.74	21.1
headroom	DL+EQY	Combination		Y	0.000516	67	11.47	18.36	21.1
headroom	DL+RSX	Combination	Max	X	0.001254	74	11.47	10.74	21.1
headroom	DL+RSX	Combination	Min	X	0.000733	74	11.47	10.74	21.1
headroom	DL+RSX	Combination	Min	Y	0.000393	27	7.09	48.81	21.1
headroom	DL+RSY	Combination	Max	X	0.00063	74	11.47	10.74	21.1
headroom	DL+RSY	Combination	Max	Y	0.000337	67	11.47	18.36	21.1
headroom	DL+RSY	Combination	Min	X	0.00036	86	11.62	48.81	21.1
headroom	DL+RSY	Combination	Min	Y	0.000739	67	11.47	18.36	21.1
headroom	DL-EQX	Combination		X	0.000912	74	11.47	10.74	21.1
headroom	DL-EQX	Combination		Y	0.0003	27	7.09	48.81	21.1
headroom	DL-EQY	Combination		X	0.000349	86	11.62	48.81	21.1
headroom	DL-EQY	Combination		Y	0.000918	67	11.47	18.36	21.1
headroom	DL-RSX	Combination	Max	X	0.001254	74	11.47	10.74	21.1
headroom	DL-RSX	Combination	Min	X	0.000733	74	11.47	10.74	21.1
headroom	DL-RSX	Combination	Min	Y	0.000393	27	7.09	48.81	21.1
headroom	DL-RSY	Combination	Max	X	0.00063	74	11.47	10.74	21.1
headroom	DL-RSY	Combination	Max	Y	0.000337	67	11.47	18.36	21.1
headroom	DL-RSY	Combination	Min	X	0.00036	86	11.62	48.81	21.1
headroom	DL-RSY	Combination	Min	Y	0.000739	67	11.47	18.36	21.1
headroom	1.5(DL+LL)	Combination		X	0.000795	86	11.62	48.81	21.1
headroom	1.5(DL+LL)	Combination		Y	0.000389	13	7.09	53.34	21.1
headroom	ultimate envelope	Combination	Max	X	0.00215	74	11.47	10.74	21.1
headroom	ultimate envelope	Combination	Max	Y	0.000895	67	11.47	18.36	21.1
headroom	ultimate envelope	Combination	Min	X	0.001525	74	11.47	10.74	21.1
headroom	ultimate envelope	Combination	Min	Y	0.001377	67	11.47	18.36	21.1
headroom	seismic weight	Combination		X	0.000386	86	11.62	48.81	21.1
headroom	seismic weight	Combination		Y	0.00024	27	7.09	48.81	21.1
roof	Dead	LinStatic		X	0.000183	56	1.82	25.95	18.6
roof	Dead	LinStatic		Y	0.000152	5	0	62.94	18.6
roof	Live	LinStatic		X	4.7E-05	82	8.88	0	18.6
roof	Live	LinStatic		Y	1.5E-05	75	8.88	10.74	18.6
roof	Floor finish	LinStatic		X	8.7E-05	56	1.82	25.95	18.6
roof	Floor finish	LinStatic		Y	7.1E-05	5	0	62.94	18.6
roof	sunken filling	LinStatic		X	3.7E-05	82	8.88	0	18.6
roof	wall load	LinStatic		X	0.000108	76	13.3	9.45	18.6
roof	wall load	LinStatic		Y	7.7E-05	5	0	62.94	18.6
roof	sesmic - X	LinStatic		X	0.001193	63	13.42	20.42	18.6
roof	sesmic - Y	LinStatic		Y	0.001004	75	8.88	10.74	18.6
roof	RSX	LinRespSpec	Max	X	0.001167	1	21.76	62.94	18.6
roof	RSX	LinRespSpec	Max	Y	0.000338	42	0.6	41	18.6
roof	RXY	LinRespSpec	Max	X	0.000315	82	8.88	0	18.6
roof	RXY	LinRespSpec	Max	Y	0.000773	1	21.76	62.94	18.6
roof	roof live	LinStatic		X	3.8E-05	43	0.6	37.22	18.6
roof	roof live	LinStatic		Y	5.8E-05	5	0	62.94	18.6
roof	(DL+LL)	Combination		X	0.000441	76	13.3	9.45	18.6
roof	(DL+LL)	Combination		Y	0.000372	5	0	62.94	18.6
roof	09DL+1.5EQX	Combination		X	0.002117	63	13.42	20.42	18.6
roof	09DL-1.5EQX	Combination		X	0.001478	68	8.88	18.36	18.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
roof	09DL-1.5EQX	Combination		Y	0.000257	1	21.76	62.94	18.6
roof	0.9DL+1.5RSX	Combination	Max	X	0.001908	82	8.88	0	18.6
roof	0.9DL+1.5RSX	Combination	Max	Y	0.000385	42	0.6	41	18.6
roof	0.9DL+1.5RSX	Combination	Min	X	0.001663	1	21.76	62.94	18.6
roof	0.9DL+1.5RSX	Combination	Min	Y	0.00076	5	0	62.94	18.6
roof	0.9DL-1.5RSX	Combination	Max	X	0.001908	82	8.88	0	18.6
roof	0.9DL-1.5RSX	Combination	Max	Y	0.000385	42	0.6	41	18.6
roof	0.9DL-1.5RSX	Combination	Min	X	0.001663	1	21.76	62.94	18.6
roof	0.9DL-1.5RSX	Combination	Min	Y	0.00076	5	0	62.94	18.6
roof	09DL-1.5EQY	Combination		X	0.000256	42	0.6	41	18.6
roof	09DL-1.5EQY	Combination		Y	0.001705	5	0	62.94	18.6
roof	09DL+1.5EQY	Combination		X	0.00045	76	13.3	9.45	18.6
roof	09DL+1.5EQY	Combination		Y	0.00142	80	21.76	0	18.6
roof	0.9DL+1.5RSY	Combination	Max	X	0.000818	82	8.88	0	18.6
roof	0.9DL+1.5RSY	Combination	Max	Y	0.001126	80	21.76	0	18.6
roof	0.9DL+1.5RSY	Combination	Min	Y	0.001317	5	0	62.94	18.6
roof	0.9DL-1.5RSY	Combination	Max	X	0.000818	82	8.88	0	18.6
roof	0.9DL-1.5RSY	Combination	Max	Y	0.001126	80	21.76	0	18.6
roof	0.9DL-1.5RSY	Combination	Min	Y	0.001317	5	0	62.94	18.6
roof	1.2(DL+LL+EQX)	Combination		X	0.00193	63	13.42	20.42	18.6
roof	1.2(DL+LL+EQX)	Combination		Y	0.000525	5	0	62.94	18.6
roof	1.2(DL+LL-EQX)	Combination		X	0.000995	72	21.76	15.89	18.6
roof	1.2(DL+LL-EQX)	Combination		Y	0.000368	5	0	62.94	18.6
roof	1.2(DL+LL+RSX)	Combination	Max	X	0.001776	82	8.88	0	18.6
roof	1.2(DL+LL+RSX)	Combination	Min	X	0.001242	4	3.28	62.94	18.6
roof	1.2(DL+LL+RSX)	Combination	Min	Y	0.000835	5	0	62.94	18.6
roof	1.2(DL+LL-RSX)	Combination	Max	X	0.001776	82	8.88	0	18.6
roof	1.2(DL+LL-RSX)	Combination	Min	X	0.001242	4	3.28	62.94	18.6
roof	1.2(DL+LL-RSX)	Combination	Min	Y	0.000835	5	0	62.94	18.6
roof	1.2(DL+LL+EQY)	Combination		X	0.00061	76	13.3	9.45	18.6
roof	1.2(DL+LL+EQY)	Combination		Y	0.001111	80	21.76	0	18.6
roof	1.2(DL+LL-EQY)	Combination		X	0.000456	56	1.82	25.95	18.6
roof	1.2(DL+LL-EQY)	Combination		Y	0.001591	5	0	62.94	18.6
roof	1.2(DL+LL+RSY)	Combination	Max	X	0.000904	82	8.88	0	18.6
roof	1.2(DL+LL+RSY)	Combination	Max	Y	0.000876	80	21.76	0	18.6
roof	1.2(DL+LL+RSY)	Combination	Min	X	0.000384	42	0.6	41	18.6
roof	1.2(DL+LL+RSY)	Combination	Min	Y	0.001281	5	0	62.94	18.6
roof	1.2(DL+LL-RSY)	Combination	Max	X	0.000904	82	8.88	0	18.6
roof	1.2(DL+LL-RSY)	Combination	Max	Y	0.000876	80	21.76	0	18.6
roof	1.2(DL+LL-RSY)	Combination	Min	X	0.000384	42	0.6	41	18.6
roof	1.2(DL+LL-RSY)	Combination	Min	Y	0.001281	5	0	62.94	18.6
roof	1.5(DL+EQX)	Combination		X	0.002335	63	13.42	20.42	18.6
roof	1.5(DL+EQX)	Combination		Y	0.000555	5	0	62.94	18.6
roof	1.5(DL+EQY)	Combination		X	0.000684	76	13.3	9.45	18.6
roof	1.5(DL+EQY)	Combination		Y	0.001417	80	21.76	0	18.6
roof	1.5(DL+RSX)	Combination	Max	X	0.002138	82	8.88	0	18.6
roof	1.5(DL+RSX)	Combination	Min	X	0.001606	3	11.62	62.94	18.6
roof	1.5(DL+RSX)	Combination	Min	Y	0.000942	5	0	62.94	18.6
roof	1.5(DL+RSY)	Combination	Max	X	0.001048	82	8.88	0	18.6
roof	1.5(DL+RSY)	Combination	Max	Y	0.001123	80	21.76	0	18.6
roof	1.5(DL+RSY)	Combination	Min	X	0.000381	42	0.6	41	18.6
roof	1.5(DL+RSY)	Combination	Min	Y	0.0015	5	0	62.94	18.6
roof	1.5(DL-EQX)	Combination		X	0.001292	72	21.76	15.89	18.6
roof	1.5(DL-EQX)	Combination		Y	0.000365	4	3.28	62.94	18.6
roof	1.5(DL-EQY)	Combination		X	0.000483	76	13.3	9.45	18.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
roof	1.5(DL-EQY)	Combination		Y	0.001888	5	0	62.94	18.6
roof	1.5(DL-RSX)	Combination	Max	X	0.002138	82	8.88	0	18.6
roof	1.5(DL-RSX)	Combination	Min	X	0.001606	3	11.62	62.94	18.6
roof	1.5(DL-RSX)	Combination	Min	Y	0.000942	5	0	62.94	18.6
roof	1.5(DL-RSY)	Combination	Max	X	0.001048	82	8.88	0	18.6
roof	1.5(DL-RSY)	Combination	Max	Y	0.001123	80	21.76	0	18.6
roof	1.5(DL-RSY)	Combination	Min	X	0.000381	42	0.6	41	18.6
roof	1.5(DL-RSY)	Combination	Min	Y	0.0015	5	0	62.94	18.6
roof	DL+0.8LL+0.8EQX	Combination		X	0.001359	63	13.42	20.42	18.6
roof	DL+0.8LL+0.8EQX	Combination		Y	0.000411	5	0	62.94	18.6
roof	DL+0.8LL+0.8EQY	Combination		X	0.000484	76	13.3	9.45	18.6
roof	DL+0.8LL+0.8EQY	Combination		Y	0.00074	80	21.76	0	18.6
roof	DL+0.8LL+0.8RSX	Combination		X	0.000484	76	13.3	9.45	18.6
roof	DL+0.8LL+0.8RSX	Combination		Y	0.00074	80	21.76	0	18.6
roof	DL+0.8LL-0.8EQX	Combination		X	0.000602	72	21.76	15.89	18.6
roof	DL+0.8LL-0.8EQX	Combination		Y	0.000306	5	0	62.94	18.6
roof	DL+0.8LL-0.8EQY	Combination		X	0.000378	56	1.82	25.95	18.6
roof	DL+0.8LL-0.8EQY	Combination		Y	0.001122	5	0	62.94	18.6
roof	DL+0.8LL-0.8RSX	Combination	Max	X	0.001261	82	8.88	0	18.6
roof	DL+0.8LL-0.8RSX	Combination	Min	X	0.000809	4	3.28	62.94	18.6
roof	DL+0.8LL-0.8RSX	Combination	Min	Y	0.000618	5	0	62.94	18.6
roof	DL+0.8LL+0.8RSY	Combination	Max	X	0.000679	82	8.88	0	18.6
roof	DL+0.8LL+0.8RSY	Combination	Max	Y	0.000583	80	21.76	0	18.6
roof	DL+0.8LL+0.8RSY	Combination	Min	X	0.00032	42	0.6	41	18.6
roof	DL+0.8LL+0.8RSY	Combination	Min	Y	0.000915	5	0	62.94	18.6
roof	DL+0.8LL-0.8RSY	Combination	Max	X	0.000679	82	8.88	0	18.6
roof	DL+0.8LL-0.8RSY	Combination	Max	Y	0.000583	80	21.76	0	18.6
roof	DL+0.8LL-0.8RSY	Combination	Min	X	0.00032	42	0.6	41	18.6
roof	DL+0.8LL-0.8RSY	Combination	Min	Y	0.000915	5	0	62.94	18.6
roof	DL+EQX	Combination		X	0.001557	63	13.42	20.42	18.6
roof	DL+EQX	Combination		Y	0.00037	5	0	62.94	18.6
roof	DL+EQY	Combination		X	0.000456	76	13.3	9.45	18.6
roof	DL+EQY	Combination		Y	0.000945	80	21.76	0	18.6
roof	DL+RSX	Combination	Max	X	0.001426	82	8.88	0	18.6
roof	DL+RSX	Combination	Min	X	0.001071	3	11.62	62.94	18.6
roof	DL+RSX	Combination	Min	Y	0.000628	5	0	62.94	18.6
roof	DL+RSY	Combination	Max	X	0.000699	82	8.88	0	18.6
roof	DL+RSY	Combination	Max	Y	0.000749	80	21.76	0	18.6
roof	DL+RSY	Combination	Min	X	0.000254	42	0.6	41	18.6
roof	DL+RSY	Combination	Min	Y	0.001	5	0	62.94	18.6
roof	DL-EQX	Combination		X	0.000861	72	21.76	15.89	18.6
roof	DL-EQX	Combination		Y	0.000243	4	3.28	62.94	18.6
roof	DL-EQY	Combination		X	0.000322	76	13.3	9.45	18.6
roof	DL-EQY	Combination		Y	0.001259	5	0	62.94	18.6
roof	DL-RSX	Combination	Max	X	0.001426	82	8.88	0	18.6
roof	DL-RSX	Combination	Min	X	0.001071	3	11.62	62.94	18.6
roof	DL-RSX	Combination	Min	Y	0.000628	5	0	62.94	18.6
roof	DL-RSY	Combination	Max	X	0.000699	82	8.88	0	18.6
roof	DL-RSY	Combination	Max	Y	0.000749	80	21.76	0	18.6
roof	DL-RSY	Combination	Min	X	0.000254	42	0.6	41	18.6
roof	DL-RSY	Combination	Min	Y	0.001	5	0	62.94	18.6
roof	1.5(DL+LL)	Combination		X	0.000662	76	13.3	9.45	18.6
roof	1.5(DL+LL)	Combination		Y	0.000558	5	0	62.94	18.6
roof	ultimate envelope	Combination	Max	X	0.002335	63	13.42	20.42	18.6
roof	ultimate envelope	Combination	Max	Y	0.00142	80	21.76	0	18.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
roof	ultimate envelope	Combination	Min	X	0.001663	1	21.76	62.94	18.6
roof	ultimate envelope	Combination	Min	Y	0.001888	5	0	62.94	18.6
roof	seismic weight	Combination		X	0.000399	76	13.3	9.45	18.6
roof	seismic weight	Combination		Y	0.000307	5	0	62.94	18.6
story 5	Dead	LinStatic		X	0.000195	80	21.76	0	15.6
story 5	Dead	LinStatic		Y	6.4E-05	24	-0.12	53.34	15.6
story 5	Live	LinStatic		X	4.9E-05	81	13.18	0	15.6
story 5	Live	LinStatic		Y	3E-05	5	0	62.94	15.6
story 5	Floor finish	LinStatic		X	7.7E-05	80	21.76	0	15.6
story 5	Floor finish	LinStatic		Y	2.7E-05	66	2.55	19.81	15.6
story 5	sunken filling	LinStatic		X	4.6E-05	81	13.18	0	15.6
story 5	sunken filling	LinStatic		Y	1.5E-05	5	0	62.94	15.6
story 5	wall load	LinStatic		X	0.000116	81	13.18	0	15.6
story 5	wall load	LinStatic		Y	5.6E-05	24	-0.12	53.34	15.6
story 5	sesmic - X	LinStatic		X	0.00165	81	13.18	0	15.6
story 5	sesmic - Y	LinStatic		Y	0.001647	30	21.76	45.53	15.6
story 5	RSX	LinRespSpec	Max	X	0.001648	4	3.28	62.94	15.6
story 5	RSX	LinRespSpec	Max	Y	0.000534	24	-0.12	53.34	15.6
story 5	RXY	LinRespSpec	Max	X	0.000504	81	13.18	0	15.6
story 5	RXY	LinRespSpec	Max	Y	0.001354	30	21.76	45.53	15.6
story 5	roof live	LinStatic		X	2E-05	4	3.28	62.94	15.6
story 5	roof live	LinStatic		Y	2.5E-05	81	13.18	0	15.6
story 5	(DL+LL)	Combination		X	0.000491	80	21.76	0	15.6
story 5	(DL+LL)	Combination		Y	0.000187	24	-0.12	53.34	15.6
story 5	09DL+1.5EQX	Combination		X	0.002863	80	21.76	0	15.6
story 5	09DL-1.5EQX	Combination		X	0.002098	81	13.18	0	15.6
story 5	0.9DL+1.5RSX	Combination	Max	X	0.002758	80	21.76	0	15.6
story 5	0.9DL+1.5RSX	Combination	Max	Y	0.000659	24	-0.12	53.34	15.6
story 5	0.9DL+1.5RSX	Combination	Min	X	0.002361	5	0	62.94	15.6
story 5	0.9DL+1.5RSX	Combination	Min	Y	0.000942	24	-0.12	53.34	15.6
story 5	0.9DL-1.5RSX	Combination	Max	X	0.002758	80	21.76	0	15.6
story 5	0.9DL-1.5RSX	Combination	Max	Y	0.000659	24	-0.12	53.34	15.6
story 5	0.9DL-1.5RSX	Combination	Min	X	0.002361	5	0	62.94	15.6
story 5	0.9DL-1.5RSX	Combination	Min	Y	0.000942	24	-0.12	53.34	15.6
story 5	09DL-1.5EQY	Combination		Y	0.002508	44	2.06	41	15.6
story 5	09DL+1.5EQY	Combination		X	0.000589	80	21.76	0	15.6
story 5	09DL+1.5EQY	Combination		Y	0.002441	1	21.76	62.94	15.6
story 5	0.9DL+1.5RSY	Combination	Max	X	0.001144	80	21.76	0	15.6
story 5	0.9DL+1.5RSY	Combination	Max	Y	0.002002	1	21.76	62.94	15.6
story 5	0.9DL+1.5RSY	Combination	Min	Y	0.002067	58	21.76	23.58	15.6
story 5	0.9DL-1.5RSY	Combination	Max	X	0.001144	80	21.76	0	15.6
story 5	0.9DL-1.5RSY	Combination	Max	Y	0.002002	1	21.76	62.94	15.6
story 5	0.9DL-1.5RSY	Combination	Min	Y	0.002067	58	21.76	23.58	15.6
story 5	1.2(DL+LL+EQX)	Combination		X	0.002568	80	21.76	0	15.6
story 5	1.2(DL+LL-EQX)	Combination		X	0.001412	81	13.18	0	15.6
story 5	1.2(DL+LL-EQX)	Combination		Y	0.000247	46	21.76	31.39	15.6
story 5	1.2(DL+LL+RSX)	Combination	Max	X	0.002484	80	21.76	0	15.6
story 5	1.2(DL+LL+RSX)	Combination	Min	X	0.001777	2	15.7	62.94	15.6
story 5	1.2(DL+LL+RSX)	Combination	Min	Y	0.000865	24	-0.12	53.34	15.6
story 5	1.2(DL+LL-RSX)	Combination	Max	X	0.002484	80	21.76	0	15.6
story 5	1.2(DL+LL-RSX)	Combination	Min	X	0.001777	2	15.7	62.94	15.6
story 5	1.2(DL+LL-RSX)	Combination	Min	Y	0.000865	24	-0.12	53.34	15.6
story 5	1.2(DL+LL+EQY)	Combination		X	0.000749	80	21.76	0	15.6
story 5	1.2(DL+LL+EQY)	Combination		Y	0.001911	1	21.76	62.94	15.6
story 5	1.2(DL+LL-EQY)	Combination		X	0.000428	80	21.76	0	15.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 5	1.2(DL+LL-EQY)	Combination		Y	0.002111	24	-0.12	53.34	15.6
story 5	1.2(DL+LL+RSY)	Combination	Max	X	0.001193	80	21.76	0	15.6
story 5	1.2(DL+LL+RSY)	Combination	Max	Y	0.001559	1	21.76	62.94	15.6
story 5	1.2(DL+LL+RSY)	Combination	Min	Y	0.001711	83	21.76	7.85	15.6
story 5	1.2(DL+LL-RSY)	Combination	Max	X	0.001193	80	21.76	0	15.6
story 5	1.2(DL+LL-RSY)	Combination	Max	Y	0.001559	1	21.76	62.94	15.6
story 5	1.2(DL+LL-RSY)	Combination	Min	Y	0.001711	83	21.76	7.85	15.6
story 5	1.5(DL+EQX)	Combination		X	0.003121	80	21.76	0	15.6
story 5	1.5(DL+EQY)	Combination		X	0.000848	80	21.76	0	15.6
story 5	1.5(DL+EQY)	Combination		Y	0.002424	1	21.76	62.94	15.6
story 5	1.5(DL+RSX)	Combination	Max	X	0.003017	80	21.76	0	15.6
story 5	1.5(DL+RSX)	Combination	Max	Y	0.000569	5	0	62.94	15.6
story 5	1.5(DL+RSX)	Combination	Min	X	0.002287	5	0	62.94	15.6
story 5	1.5(DL+RSX)	Combination	Min	Y	0.001036	24	-0.12	53.34	15.6
story 5	1.5(DL+RSY)	Combination	Max	X	0.001403	80	21.76	0	15.6
story 5	1.5(DL+RSY)	Combination	Max	Y	0.001984	1	21.76	62.94	15.6
story 5	1.5(DL+RSY)	Combination	Min	Y	0.002096	83	21.76	7.85	15.6
story 5	1.5(DL-EQX)	Combination		X	0.001847	81	13.18	0	15.6
story 5	1.5(DL-EQX)	Combination		Y	0.000268	34	21.76	37.72	15.6
story 5	1.5(DL-EQY)	Combination		X	0.000446	80	21.76	0	15.6
story 5	1.5(DL-EQY)	Combination		Y	0.002595	24	-0.12	53.34	15.6
story 5	1.5(DL-RSX)	Combination	Max	X	0.003017	80	21.76	0	15.6
story 5	1.5(DL-RSX)	Combination	Max	Y	0.000569	5	0	62.94	15.6
story 5	1.5(DL-RSX)	Combination	Min	X	0.002287	5	0	62.94	15.6
story 5	1.5(DL-RSX)	Combination	Min	Y	0.001036	24	-0.12	53.34	15.6
story 5	1.5(DL-RSY)	Combination	Max	X	0.001403	80	21.76	0	15.6
story 5	1.5(DL-RSY)	Combination	Max	Y	0.001984	1	21.76	62.94	15.6
story 5	1.5(DL-RSY)	Combination	Min	Y	0.002096	83	21.76	7.85	15.6
story 5	DL+0.8LL+0.8EQX	Combination		X	0.001798	80	21.76	0	15.6
story 5	DL+0.8LL+0.8EQY	Combination		X	0.000586	80	21.76	0	15.6
story 5	DL+0.8LL+0.8EQY	Combination		Y	0.001268	1	21.76	62.94	15.6
story 5	DL+0.8LL+0.8RSX	Combination		X	0.000586	80	21.76	0	15.6
story 5	DL+0.8LL+0.8RSX	Combination		Y	0.001268	1	21.76	62.94	15.6
story 5	DL+0.8LL-0.8EQX	Combination		X	0.000858	82	8.88	0	15.6
story 5	DL+0.8LL-0.8EQX	Combination		Y	0.000173	46	21.76	31.39	15.6
story 5	DL+0.8LL-0.8EQY	Combination		X	0.000372	80	21.76	0	15.6
story 5	DL+0.8LL-0.8EQY	Combination		Y	0.001439	24	-0.12	53.34	15.6
story 5	DL+0.8LL-0.8RSX	Combination	Max	X	0.001743	80	21.76	0	15.6
story 5	DL+0.8LL-0.8RSX	Combination	Min	X	0.00116	2	15.7	62.94	15.6
story 5	DL+0.8LL-0.8RSX	Combination	Min	Y	0.000608	24	-0.12	53.34	15.6
story 5	DL+0.8LL+0.8RSY	Combination	Max	X	0.000882	80	21.76	0	15.6
story 5	DL+0.8LL+0.8RSY	Combination	Max	Y	0.001033	1	21.76	62.94	15.6
story 5	DL+0.8LL+0.8RSY	Combination	Min	X	0.00024	30	21.76	45.53	15.6
story 5	DL+0.8LL+0.8RSY	Combination	Min	Y	0.00115	83	21.76	7.85	15.6
story 5	DL+0.8LL-0.8RSY	Combination	Max	X	0.000882	80	21.76	0	15.6
story 5	DL+0.8LL-0.8RSY	Combination	Max	Y	0.001033	1	21.76	62.94	15.6
story 5	DL+0.8LL-0.8RSY	Combination	Min	X	0.00024	30	21.76	45.53	15.6
story 5	DL+0.8LL-0.8RSY	Combination	Min	Y	0.00115	83	21.76	7.85	15.6
story 5	DL+EQX	Combination		X	0.002081	80	21.76	0	15.6
story 5	DL+EQY	Combination		X	0.000565	80	21.76	0	15.6
story 5	DL+EQY	Combination		Y	0.001616	1	21.76	62.94	15.6
story 5	DL+RSX	Combination	Max	X	0.002011	80	21.76	0	15.6
story 5	DL+RSX	Combination	Max	Y	0.00038	5	0	62.94	15.6
story 5	DL+RSX	Combination	Min	X	0.001525	5	0	62.94	15.6
story 5	DL+RSX	Combination	Min	Y	0.000691	24	-0.12	53.34	15.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 5	DL+RSY	Combination	Max	X	0.000935	80	21.76	0	15.6
story 5	DL+RSY	Combination	Max	Y	0.001323	1	21.76	62.94	15.6
story 5	DL+RSY	Combination	Min	Y	0.001397	83	21.76	7.85	15.6
story 5	DL-EQX	Combination		X	0.001231	81	13.18	0	15.6
story 5	DL-EQX	Combination		Y	0.000178	34	21.76	37.72	15.6
story 5	DL-EQY	Combination		X	0.000298	80	21.76	0	15.6
story 5	DL-EQY	Combination		Y	0.00173	24	-0.12	53.34	15.6
story 5	DL-RSX	Combination	Max	X	0.002011	80	21.76	0	15.6
story 5	DL-RSX	Combination	Max	Y	0.00038	5	0	62.94	15.6
story 5	DL-RSX	Combination	Min	X	0.001525	5	0	62.94	15.6
story 5	DL-RSX	Combination	Min	Y	0.000691	24	-0.12	53.34	15.6
story 5	DL-RSY	Combination	Max	X	0.000935	80	21.76	0	15.6
story 5	DL-RSY	Combination	Max	Y	0.001323	1	21.76	62.94	15.6
story 5	DL-RSY	Combination	Min	Y	0.001397	83	21.76	7.85	15.6
story 5	1.5(DL+LL)	Combination		X	0.000736	80	21.76	0	15.6
story 5	1.5(DL+LL)	Combination		Y	0.000281	24	-0.12	53.34	15.6
story 5	ultimate envelope	Combination	Max	X	0.003121	80	21.76	0	15.6
story 5	ultimate envelope	Combination	Max	Y	0.002441	1	21.76	62.94	15.6
story 5	ultimate envelope	Combination	Min	X	0.002361	5	0	62.94	15.6
story 5	ultimate envelope	Combination	Min	Y	0.002595	24	-0.12	53.34	15.6
story 5	seismic weight	Combination		X	0.000443	80	21.76	0	15.6
story 5	seismic weight	Combination		Y	0.000164	24	-0.12	53.34	15.6
story 4	Dead	LinStatic		X	0.000192	81	13.18	0	12.6
story 4	Dead	LinStatic		Y	6E-05	43	0.6	37.22	12.6
story 4	Live	LinStatic		X	5E-05	80	21.76	0	12.6
story 4	Live	LinStatic		Y	2.1E-05	24	-0.12	53.34	12.6
story 4	Floor finish	LinStatic		X	7.4E-05	81	13.18	0	12.6
story 4	Floor finish	LinStatic		Y	2.5E-05	43	0.6	37.22	12.6
story 4	sunken filling	LinStatic		X	4.8E-05	80	21.76	0	12.6
story 4	wall load	LinStatic		X	0.000118	80	21.76	0	12.6
story 4	wall load	LinStatic		Y	5E-05	24	-0.12	53.34	12.6
story 4	sesmic - X	LinStatic		X	0.002077	80	21.76	0	12.6
story 4	sesmic - Y	LinStatic		Y	0.002185	1	21.76	62.94	12.6
story 4	RSX	LinRespSpec	Max	X	0.002035	5	0	62.94	12.6
story 4	RSX	LinRespSpec	Max	Y	0.000687	24	-0.12	53.34	12.6
story 4	RXY	LinRespSpec	Max	X	0.00067	80	21.76	0	12.6
story 4	RXY	LinRespSpec	Max	Y	0.001851	1	21.76	62.94	12.6
story 4	roof live	LinStatic		X	1.5E-05	5	0	62.94	12.6
story 4	roof live	LinStatic		Y	1.4E-05	1	21.76	62.94	12.6
story 4	(DL+LL)	Combination		X	0.000486	81	13.18	0	12.6
story 4	(DL+LL)	Combination		Y	0.000171	43	0.6	37.22	12.6
story 4	09DL+1.5EQX	Combination		X	0.003502	80	21.76	0	12.6
story 4	09DL-1.5EQX	Combination		X	0.002729	80	21.76	0	12.6
story 4	0.9DL+1.5RSX	Combination	Max	X	0.003432	80	21.76	0	12.6
story 4	0.9DL+1.5RSX	Combination	Max	Y	0.000902	24	-0.12	53.34	12.6
story 4	0.9DL+1.5RSX	Combination	Min	X	0.002943	5	0	62.94	12.6
story 4	0.9DL+1.5RSX	Combination	Min	Y	0.00116	24	-0.12	53.34	12.6
story 4	0.9DL-1.5RSX	Combination	Max	X	0.003432	80	21.76	0	12.6
story 4	0.9DL-1.5RSX	Combination	Max	Y	0.000902	24	-0.12	53.34	12.6
story 4	0.9DL-1.5RSX	Combination	Min	X	0.002943	5	0	62.94	12.6
story 4	0.9DL-1.5RSX	Combination	Min	Y	0.00116	24	-0.12	53.34	12.6
story 4	09DL-1.5EQY	Combination		Y	0.003308	1	21.76	62.94	12.6
story 4	09DL+1.5EQY	Combination		X	0.00067	81	13.18	0	12.6
story 4	09DL+1.5EQY	Combination		Y	0.003248	10	21.76	53.34	12.6
story 4	0.9DL+1.5RSY	Combination	Max	X	0.001392	81	13.18	0	12.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 4	0.9DL+1.5RSY	Combination	Max	Y	0.002747	10	21.76	53.34	12.6
story 4	0.9DL+1.5RSY	Combination	Min	Y	0.002807	1	21.76	62.94	12.6
story 4	0.9DL-1.5RSY	Combination	Max	X	0.001392	81	13.18	0	12.6
story 4	0.9DL-1.5RSY	Combination	Max	Y	0.002747	10	21.76	53.34	12.6
story 4	0.9DL-1.5RSY	Combination	Min	Y	0.002807	1	21.76	62.94	12.6
story 4	1.2(DL+LL+EQX)	Combination		X	0.003074	81	13.18	0	12.6
story 4	1.2(DL+LL-EQX)	Combination		X	0.001912	80	21.76	0	12.6
story 4	1.2(DL+LL-EQX)	Combination		Y	0.00029	1	21.76	62.94	12.6
story 4	1.2(DL+LL+RSX)	Combination	Max	X	0.003018	81	13.18	0	12.6
story 4	1.2(DL+LL+RSX)	Combination	Max	Y	0.000621	24	-0.12	53.34	12.6
story 4	1.2(DL+LL+RSX)	Combination	Min	X	0.002247	5	0	62.94	12.6
story 4	1.2(DL+LL+RSX)	Combination	Min	Y	0.001029	24	-0.12	53.34	12.6
story 4	1.2(DL+LL-RSX)	Combination	Max	X	0.003018	81	13.18	0	12.6
story 4	1.2(DL+LL-RSX)	Combination	Max	Y	0.000621	24	-0.12	53.34	12.6
story 4	1.2(DL+LL-RSX)	Combination	Min	X	0.002247	5	0	62.94	12.6
story 4	1.2(DL+LL-RSX)	Combination	Min	Y	0.001029	24	-0.12	53.34	12.6
story 4	1.2(DL+LL+EQY)	Combination		X	0.00081	81	13.18	0	12.6
story 4	1.2(DL+LL+EQY)	Combination		Y	0.002555	10	21.76	53.34	12.6
story 4	1.2(DL+LL-EQY)	Combination		X	0.000357	81	13.18	0	12.6
story 4	1.2(DL+LL-EQY)	Combination		Y	0.002716	43	0.6	37.22	12.6
story 4	1.2(DL+LL+RSY)	Combination	Max	X	0.001387	81	13.18	0	12.6
story 4	1.2(DL+LL+RSY)	Combination	Max	Y	0.002154	10	21.76	53.34	12.6
story 4	1.2(DL+LL+RSY)	Combination	Min	Y	0.002291	1	21.76	62.94	12.6
story 4	1.2(DL+LL-RSY)	Combination	Max	X	0.001387	81	13.18	0	12.6
story 4	1.2(DL+LL-RSY)	Combination	Max	Y	0.002154	10	21.76	53.34	12.6
story 4	1.2(DL+LL-RSY)	Combination	Min	Y	0.002291	1	21.76	62.94	12.6
story 4	1.5(DL+EQX)	Combination		X	0.003759	80	21.76	0	12.6
story 4	1.5(DL+EQY)	Combination		X	0.000929	81	13.18	0	12.6
story 4	1.5(DL+EQY)	Combination		Y	0.003229	10	21.76	53.34	12.6
story 4	1.5(DL+RSX)	Combination	Max	X	0.003689	81	13.18	0	12.6
story 4	1.5(DL+RSX)	Combination	Max	Y	0.000817	24	-0.12	53.34	12.6
story 4	1.5(DL+RSX)	Combination	Min	X	0.00287	5	0	62.94	12.6
story 4	1.5(DL+RSX)	Combination	Min	Y	0.001246	24	-0.12	53.34	12.6
story 4	1.5(DL+RSY)	Combination	Max	X	0.001651	81	13.18	0	12.6
story 4	1.5(DL+RSY)	Combination	Max	Y	0.002728	10	21.76	53.34	12.6
story 4	1.5(DL+RSY)	Combination	Min	Y	0.002828	1	21.76	62.94	12.6
story 4	1.5(DL-EQX)	Combination		X	0.002472	80	21.76	0	12.6
story 4	1.5(DL-EQY)	Combination		Y	0.003354	43	0.6	37.22	12.6
story 4	1.5(DL-RSX)	Combination	Max	X	0.003689	81	13.18	0	12.6
story 4	1.5(DL-RSX)	Combination	Max	Y	0.000817	24	-0.12	53.34	12.6
story 4	1.5(DL-RSX)	Combination	Min	X	0.00287	5	0	62.94	12.6
story 4	1.5(DL-RSX)	Combination	Min	Y	0.001246	24	-0.12	53.34	12.6
story 4	1.5(DL-RSY)	Combination	Max	X	0.001651	81	13.18	0	12.6
story 4	1.5(DL-RSY)	Combination	Max	Y	0.002728	10	21.76	53.34	12.6
story 4	1.5(DL-RSY)	Combination	Min	Y	0.002828	1	21.76	62.94	12.6
story 4	DL+0.8LL+0.8EQX	Combination		X	0.002136	81	13.18	0	12.6
story 4	DL+0.8LL+0.8EQY	Combination		X	0.000626	81	13.18	0	12.6
story 4	DL+0.8LL+0.8EQY	Combination		Y	0.001697	10	21.76	53.34	12.6
story 4	DL+0.8LL+0.8RSX	Combination		X	0.000626	81	13.18	0	12.6
story 4	DL+0.8LL+0.8RSX	Combination		Y	0.001697	10	21.76	53.34	12.6
story 4	DL+0.8LL-0.8EQX	Combination		X	0.001189	80	21.76	0	12.6
story 4	DL+0.8LL-0.8EQX	Combination		Y	0.0002	1	21.76	62.94	12.6
story 4	DL+0.8LL-0.8EQY	Combination		X	0.000324	81	13.18	0	12.6
story 4	DL+0.8LL-0.8EQY	Combination		Y	0.001839	43	0.6	37.22	12.6
story 4	DL+0.8LL-0.8RSX	Combination	Max	X	0.002098	81	13.18	0	12.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 4	DL+0.8LL-0.8RSX	Combination	Max	Y	0.000386	24	-0.12	53.34	12.6
story 4	DL+0.8LL-0.8RSX	Combination	Min	X	0.001473	5	0	62.94	12.6
story 4	DL+0.8LL-0.8RSX	Combination	Min	Y	0.000714	24	-0.12	53.34	12.6
story 4	DL+0.8LL+0.8RSY	Combination	Max	X	0.001011	81	13.18	0	12.6
story 4	DL+0.8LL+0.8RSY	Combination	Max	Y	0.00143	10	21.76	53.34	12.6
story 4	DL+0.8LL+0.8RSY	Combination	Min	Y	0.001534	1	21.76	62.94	12.6
story 4	DL+0.8LL-0.8RSY	Combination	Max	X	0.001011	81	13.18	0	12.6
story 4	DL+0.8LL-0.8RSY	Combination	Max	Y	0.00143	10	21.76	53.34	12.6
story 4	DL+0.8LL-0.8RSY	Combination	Min	Y	0.001534	1	21.76	62.94	12.6
story 4	DL+EQX	Combination		X	0.002506	80	21.76	0	12.6
story 4	DL+EQY	Combination		X	0.000619	81	13.18	0	12.6
story 4	DL+EQY	Combination		Y	0.002153	10	21.76	53.34	12.6
story 4	DL+RSX	Combination	Max	X	0.00246	81	13.18	0	12.6
story 4	DL+RSX	Combination	Max	Y	0.000544	24	-0.12	53.34	12.6
story 4	DL+RSX	Combination	Min	X	0.001913	5	0	62.94	12.6
story 4	DL+RSX	Combination	Min	Y	0.000831	24	-0.12	53.34	12.6
story 4	DL+RSY	Combination	Max	X	0.0011	81	13.18	0	12.6
story 4	DL+RSY	Combination	Max	Y	0.001819	10	21.76	53.34	12.6
story 4	DL+RSY	Combination	Min	Y	0.001885	1	21.76	62.94	12.6
story 4	DL-EQX	Combination		X	0.001648	80	21.76	0	12.6
story 4	DL-EQY	Combination		Y	0.002236	43	0.6	37.22	12.6
story 4	DL-RSX	Combination	Max	X	0.00246	81	13.18	0	12.6
story 4	DL-RSX	Combination	Max	Y	0.000544	24	-0.12	53.34	12.6
story 4	DL-RSX	Combination	Min	X	0.001913	5	0	62.94	12.6
story 4	DL-RSX	Combination	Min	Y	0.000831	24	-0.12	53.34	12.6
story 4	DL-RSY	Combination	Max	X	0.0011	81	13.18	0	12.6
story 4	DL-RSY	Combination	Max	Y	0.001819	10	21.76	53.34	12.6
story 4	DL-RSY	Combination	Min	Y	0.001885	1	21.76	62.94	12.6
story 4	1.5(DL+LL)	Combination		X	0.000729	81	13.18	0	12.6
story 4	1.5(DL+LL)	Combination		Y	0.000256	43	0.6	37.22	12.6
story 4	ultimate envelope	Combination	Max	X	0.003759	80	21.76	0	12.6
story 4	ultimate envelope	Combination	Max	Y	0.003248	10	21.76	53.34	12.6
story 4	ultimate envelope	Combination	Min	X	0.002943	5	0	62.94	12.6
story 4	ultimate envelope	Combination	Min	Y	0.003354	43	0.6	37.22	12.6
story 4	seismic weight	Combination		X	0.000443	81	13.18	0	12.6
story 4	seismic weight	Combination		Y	0.000148	5	0	62.94	12.6
story 3	Dead	LinStatic		X	0.000178	80	21.76	0	9.6
story 3	Dead	LinStatic		Y	6.1E-05	24	-0.12	53.34	9.6
story 3	Live	LinStatic		X	4.9E-05	83	21.76	7.85	9.6
story 3	Live	LinStatic		Y	2E-05	24	-0.12	53.34	9.6
story 3	Floor finish	LinStatic		X	6.8E-05	80	21.76	0	9.6
story 3	Floor finish	LinStatic		Y	2.6E-05	42	0.6	41	9.6
story 3	sunken filling	LinStatic		X	4.6E-05	80	21.76	0	9.6
story 3	wall load	LinStatic		X	0.000111	80	21.76	0	9.6
story 3	wall load	LinStatic		Y	4.8E-05	24	-0.12	53.34	9.6
story 3	sesmic - X	LinStatic		X	0.002326	81	13.18	0	9.6
story 3	sesmic - Y	LinStatic		Y	0.002563	34	21.76	37.72	9.6
story 3	RSX	LinRespSpec	Max	X	0.00236	81	13.18	0	9.6
story 3	RSX	LinRespSpec	Max	Y	0.000782	24	-0.12	53.34	9.6
story 3	RXY	LinRespSpec	Max	X	0.000789	81	13.18	0	9.6
story 3	RXY	LinRespSpec	Max	Y	0.002268	34	21.76	37.72	9.6
story 3	roof live	LinStatic		X	1E-05	1	21.76	62.94	9.6
story 3	roof live	LinStatic		Y	1.1E-05	10	21.76	53.34	9.6
story 3	(DL+LL)	Combination		X	0.000454	80	21.76	0	9.6
story 3	(DL+LL)	Combination		Y	0.00017	24	-0.12	53.34	9.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 3	09DL+1.5EQX	Combination		X	0.00385	80	21.76	0	9.6
story 3	09DL-1.5EQX	Combination		X	0.003131	81	13.18	0	9.6
story 3	0.9DL+1.5RSX	Combination	Max	X	0.0039	80	21.76	0	9.6
story 3	0.9DL+1.5RSX	Combination	Max	Y	0.001044	24	-0.12	53.34	9.6
story 3	0.9DL+1.5RSX	Combination	Min	X	0.003381	2	15.7	62.94	9.6
story 3	0.9DL+1.5RSX	Combination	Min	Y	0.001302	24	-0.12	53.34	9.6
story 3	0.9DL-1.5RSX	Combination	Max	X	0.0039	80	21.76	0	9.6
story 3	0.9DL-1.5RSX	Combination	Max	Y	0.001044	24	-0.12	53.34	9.6
story 3	0.9DL-1.5RSX	Combination	Min	X	0.003381	2	15.7	62.94	9.6
story 3	0.9DL-1.5RSX	Combination	Min	Y	0.001302	24	-0.12	53.34	9.6
story 3	09DL-1.5EQY	Combination		Y	0.003874	83	21.76	7.85	9.6
story 3	09DL+1.5EQY	Combination		Y	0.003819	30	21.76	45.53	9.6
story 3	0.9DL+1.5RSY	Combination	Max	X	0.001546	80	21.76	0	9.6
story 3	0.9DL+1.5RSY	Combination	Max	Y	0.003378	30	21.76	45.53	9.6
story 3	0.9DL+1.5RSY	Combination	Min	X	0.000826	81	13.18	0	9.6
story 3	0.9DL+1.5RSY	Combination	Min	Y	0.00343	34	21.76	37.72	9.6
story 3	0.9DL-1.5RSY	Combination	Max	X	0.001546	80	21.76	0	9.6
story 3	0.9DL-1.5RSY	Combination	Max	Y	0.003378	30	21.76	45.53	9.6
story 3	0.9DL-1.5RSY	Combination	Min	X	0.000826	81	13.18	0	9.6
story 3	0.9DL-1.5RSY	Combination	Min	Y	0.00343	34	21.76	37.72	9.6
story 3	1.2(DL+LL+EQX)	Combination		X	0.003334	80	21.76	0	9.6
story 3	1.2(DL+LL-EQX)	Combination		X	0.002253	81	13.18	0	9.6
story 3	1.2(DL+LL+RSX)	Combination	Max	X	0.003374	80	21.76	0	9.6
story 3	1.2(DL+LL+RSX)	Combination	Max	Y	0.000735	24	-0.12	53.34	9.6
story 3	1.2(DL+LL+RSX)	Combination	Min	X	0.002615	2	15.7	62.94	9.6
story 3	1.2(DL+LL+RSX)	Combination	Min	Y	0.001142	24	-0.12	53.34	9.6
story 3	1.2(DL+LL-RSX)	Combination	Max	X	0.003374	80	21.76	0	9.6
story 3	1.2(DL+LL-RSX)	Combination	Max	Y	0.000735	24	-0.12	53.34	9.6
story 3	1.2(DL+LL-RSX)	Combination	Min	X	0.002615	2	15.7	62.94	9.6
story 3	1.2(DL+LL-RSX)	Combination	Min	Y	0.001142	24	-0.12	53.34	9.6
story 3	1.2(DL+LL+EQY)	Combination		X	0.000799	80	21.76	0	9.6
story 3	1.2(DL+LL+EQY)	Combination		Y	0.003021	1	21.76	62.94	9.6
story 3	1.2(DL+LL-EQY)	Combination		Y	0.00315	42	0.6	41	9.6
story 3	1.2(DL+LL+RSY)	Combination	Max	X	0.001491	80	21.76	0	9.6
story 3	1.2(DL+LL+RSY)	Combination	Max	Y	0.002667	30	21.76	45.53	9.6
story 3	1.2(DL+LL+RSY)	Combination	Min	Y	0.002786	83	21.76	7.85	9.6
story 3	1.2(DL+LL-RSY)	Combination	Max	X	0.001491	80	21.76	0	9.6
story 3	1.2(DL+LL-RSY)	Combination	Max	Y	0.002667	30	21.76	45.53	9.6
story 3	1.2(DL+LL-RSY)	Combination	Min	Y	0.002786	83	21.76	7.85	9.6
story 3	1.5(DL+EQX)	Combination		X	0.004092	80	21.76	0	9.6
story 3	1.5(DL+EQY)	Combination		X	0.000923	80	21.76	0	9.6
story 3	1.5(DL+EQY)	Combination		Y	0.003803	30	21.76	45.53	9.6
story 3	1.5(DL+RSX)	Combination	Max	X	0.004141	80	21.76	0	9.6
story 3	1.5(DL+RSX)	Combination	Max	Y	0.000957	24	-0.12	53.34	9.6
story 3	1.5(DL+RSX)	Combination	Min	X	0.00332	2	15.7	62.94	9.6
story 3	1.5(DL+RSX)	Combination	Min	Y	0.001388	24	-0.12	53.34	9.6
story 3	1.5(DL+RSY)	Combination	Max	X	0.001787	80	21.76	0	9.6
story 3	1.5(DL+RSY)	Combination	Max	Y	0.003362	30	21.76	45.53	9.6
story 3	1.5(DL+RSY)	Combination	Min	Y	0.003451	83	21.76	7.85	9.6
story 3	1.5(DL-EQX)	Combination		X	0.002892	81	13.18	0	9.6
story 3	1.5(DL-EQY)	Combination		Y	0.003898	44	2.06	41	9.6
story 3	1.5(DL-RSX)	Combination	Max	X	0.004141	80	21.76	0	9.6
story 3	1.5(DL-RSX)	Combination	Max	Y	0.000957	24	-0.12	53.34	9.6
story 3	1.5(DL-RSX)	Combination	Min	X	0.00332	2	15.7	62.94	9.6
story 3	1.5(DL-RSX)	Combination	Min	Y	0.001388	24	-0.12	53.34	9.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 3	1.5(DL-RSY)	Combination	Max	X	0.001787	80	21.76	0	9.6
story 3	1.5(DL-RSY)	Combination	Max	Y	0.003362	30	21.76	45.53	9.6
story 3	1.5(DL-RSY)	Combination	Min	Y	0.003451	83	21.76	7.85	9.6
story 3	DL+0.8LL+0.8EQX	Combination		X	0.002304	80	21.76	0	9.6
story 3	DL+0.8LL+0.8EQY	Combination		X	0.000613	80	21.76	0	9.6
story 3	DL+0.8LL+0.8EQY	Combination		Y	0.002009	1	21.76	62.94	9.6
story 3	DL+0.8LL+0.8RSX	Combination		X	0.000613	80	21.76	0	9.6
story 3	DL+0.8LL+0.8RSX	Combination		Y	0.002009	1	21.76	62.94	9.6
story 3	DL+0.8LL-0.8EQX	Combination		X	0.001423	81	13.18	0	9.6
story 3	DL+0.8LL-0.8EQX	Combination		Y	0.000225	10	21.76	53.34	9.6
story 3	DL+0.8LL-0.8EQY	Combination		X	0.000278	83	21.76	7.85	9.6
story 3	DL+0.8LL-0.8EQY	Combination		Y	0.002128	42	0.6	41	9.6
story 3	DL+0.8LL-0.8RSX	Combination	Max	X	0.00233	80	21.76	0	9.6
story 3	DL+0.8LL-0.8RSX	Combination	Max	Y	0.000462	5	0	62.94	9.6
story 3	DL+0.8LL-0.8RSX	Combination	Min	X	0.001723	2	15.7	62.94	9.6
story 3	DL+0.8LL-0.8RSX	Combination	Min	Y	0.00079	24	-0.12	53.34	9.6
story 3	DL+0.8LL+0.8RSY	Combination	Max	X	0.001074	80	21.76	0	9.6
story 3	DL+0.8LL+0.8RSY	Combination	Max	Y	0.001773	1	21.76	62.94	9.6
story 3	DL+0.8LL+0.8RSY	Combination	Min	Y	0.001865	80	21.76	0	9.6
story 3	DL+0.8LL-0.8RSY	Combination	Max	X	0.001074	80	21.76	0	9.6
story 3	DL+0.8LL-0.8RSY	Combination	Max	Y	0.001773	1	21.76	62.94	9.6
story 3	DL+0.8LL-0.8RSY	Combination	Min	Y	0.001865	80	21.76	0	9.6
story 3	DL+EQX	Combination		X	0.002728	80	21.76	0	9.6
story 3	DL+EQY	Combination		X	0.000615	80	21.76	0	9.6
story 3	DL+EQY	Combination		Y	0.002536	30	21.76	45.53	9.6
story 3	DL+RSX	Combination	Max	X	0.002761	80	21.76	0	9.6
story 3	DL+RSX	Combination	Max	Y	0.000638	24	-0.12	53.34	9.6
story 3	DL+RSX	Combination	Min	X	0.002213	2	15.7	62.94	9.6
story 3	DL+RSX	Combination	Min	Y	0.000925	24	-0.12	53.34	9.6
story 3	DL+RSY	Combination	Max	X	0.001191	80	21.76	0	9.6
story 3	DL+RSY	Combination	Max	Y	0.002241	30	21.76	45.53	9.6
story 3	DL+RSY	Combination	Min	Y	0.002301	83	21.76	7.85	9.6
story 3	DL-EQX	Combination		X	0.001928	81	13.18	0	9.6
story 3	DL-EQY	Combination		Y	0.002599	44	2.06	41	9.6
story 3	DL-RSX	Combination	Max	X	0.002761	80	21.76	0	9.6
story 3	DL-RSX	Combination	Max	Y	0.000638	24	-0.12	53.34	9.6
story 3	DL-RSX	Combination	Min	X	0.002213	2	15.7	62.94	9.6
story 3	DL-RSX	Combination	Min	Y	0.000925	24	-0.12	53.34	9.6
story 3	DL-RSY	Combination	Max	X	0.001191	80	21.76	0	9.6
story 3	DL-RSY	Combination	Max	Y	0.002241	30	21.76	45.53	9.6
story 3	DL-RSY	Combination	Min	Y	0.002301	83	21.76	7.85	9.6
story 3	1.5(DL+LL)	Combination		X	0.00068	80	21.76	0	9.6
story 3	1.5(DL+LL)	Combination		Y	0.000255	24	-0.12	53.34	9.6
story 3	ultimate envelope	Combination	Max	X	0.004141	80	21.76	0	9.6
story 3	ultimate envelope	Combination	Max	Y	0.003819	30	21.76	45.53	9.6
story 3	ultimate envelope	Combination	Min	X	0.003381	2	15.7	62.94	9.6
story 3	ultimate envelope	Combination	Min	Y	0.003898	44	2.06	41	9.6
story 3	seismic weight	Combination		X	0.000415	80	21.76	0	9.6
story 3	seismic weight	Combination		Y	0.000149	24	-0.12	53.34	9.6
story 2	Dead	LinStatic		X	0.000148	81	13.18	0	6.6
story 2	Dead	LinStatic		Y	8.9E-05	5	0	62.94	6.6
story 2	Live	LinStatic		X	4.8E-05	56	1.82	25.95	6.6
story 2	Live	LinStatic		Y	3.2E-05	5	0	62.94	6.6
story 2	Floor finish	LinStatic		X	6.1E-05	56	1.82	25.95	6.6
story 2	Floor finish	LinStatic		Y	3.9E-05	5	0	62.94	6.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 2	sunken filling	LinStatic		X	3.9E-05	81	13.18	0	6.6
story 2	sunken filling	LinStatic		Y	1.5E-05	5	0	62.94	6.6
story 2	wall load	LinStatic		X	9.3E-05	81	13.18	0	6.6
story 2	wall load	LinStatic		Y	5.8E-05	5	0	62.94	6.6
story 2	sesmic - X	LinStatic		X	0.002451	80	21.76	0	6.6
story 2	sesmic - Y	LinStatic		Y	0.002928	80	21.76	0	6.6
story 2	RSX	LinRespSpec	Max	X	0.00264	80	21.76	0	6.6
story 2	RSX	LinRespSpec	Max	Y	0.000863	5	0	62.94	6.6
story 2	RXY	LinRespSpec	Max	X	0.000897	80	21.76	0	6.6
story 2	RXY	LinRespSpec	Max	Y	0.002763	58	21.76	23.58	6.6
story 2	roof live	LinStatic		X	7E-06	5	0	62.94	6.6
story 2	roof live	LinStatic		Y	7E-06	1	21.76	62.94	6.6
story 2	(DL+LL)	Combination		X	0.000378	81	13.18	0	6.6
story 2	(DL+LL)	Combination		Y	0.000238	5	0	62.94	6.6
story 2	09DL+1.5EQX	Combination		X	0.003964	81	13.18	0	6.6
story 2	09DL-1.5EQX	Combination		X	0.003401	80	21.76	0	6.6
story 2	0.9DL+1.5RSX	Combination	Max	X	0.004245	81	13.18	0	6.6
story 2	0.9DL+1.5RSX	Combination	Max	Y	0.001163	42	0.6	41	6.6
story 2	0.9DL+1.5RSX	Combination	Min	X	0.003684	80	21.76	0	6.6
story 2	0.9DL+1.5RSX	Combination	Min	Y	0.001476	5	0	62.94	6.6
story 2	0.9DL-1.5RSX	Combination	Max	X	0.004245	81	13.18	0	6.6
story 2	0.9DL-1.5RSX	Combination	Max	Y	0.001163	42	0.6	41	6.6
story 2	0.9DL-1.5RSX	Combination	Min	X	0.003684	80	21.76	0	6.6
story 2	0.9DL-1.5RSX	Combination	Min	Y	0.001476	5	0	62.94	6.6
story 2	09DL-1.5EQY	Combination		Y	0.004553	5	0	62.94	6.6
story 2	09DL+1.5EQY	Combination		Y	0.004386	80	21.76	0	6.6
story 2	0.9DL+1.5RSY	Combination	Max	X	0.001643	81	13.18	0	6.6
story 2	0.9DL+1.5RSY	Combination	Max	Y	0.004138	80	21.76	0	6.6
story 2	0.9DL+1.5RSY	Combination	Min	X	0.001069	80	21.76	0	6.6
story 2	0.9DL+1.5RSY	Combination	Min	Y	0.004179	1	21.76	62.94	6.6
story 2	0.9DL-1.5RSY	Combination	Max	X	0.001643	81	13.18	0	6.6
story 2	0.9DL-1.5RSY	Combination	Max	Y	0.004138	80	21.76	0	6.6
story 2	0.9DL-1.5RSY	Combination	Min	X	0.001069	80	21.76	0	6.6
story 2	0.9DL-1.5RSY	Combination	Min	Y	0.004179	1	21.76	62.94	6.6
story 2	1.2(DL+LL+EQX)	Combination		X	0.003383	81	13.18	0	6.6
story 2	1.2(DL+LL-EQX)	Combination		X	0.002529	80	21.76	0	6.6
story 2	1.2(DL+LL-EQX)	Combination		Y	0.000413	1	21.76	62.94	6.6
story 2	1.2(DL+LL+RSX)	Combination	Max	X	0.003607	81	13.18	0	6.6
story 2	1.2(DL+LL+RSX)	Combination	Max	Y	0.000841	42	0.6	41	6.6
story 2	1.2(DL+LL+RSX)	Combination	Min	X	0.002868	1	21.76	62.94	6.6
story 2	1.2(DL+LL+RSX)	Combination	Min	Y	0.001321	5	0	62.94	6.6
story 2	1.2(DL+LL-RSX)	Combination	Max	X	0.003607	81	13.18	0	6.6
story 2	1.2(DL+LL-RSX)	Combination	Max	Y	0.000841	42	0.6	41	6.6
story 2	1.2(DL+LL-RSX)	Combination	Min	X	0.002868	1	21.76	62.94	6.6
story 2	1.2(DL+LL-RSX)	Combination	Min	Y	0.001321	5	0	62.94	6.6
story 2	1.2(DL+LL+EQY)	Combination		X	0.000734	81	13.18	0	6.6
story 2	1.2(DL+LL+EQY)	Combination		Y	0.00349	80	21.76	0	6.6
story 2	1.2(DL+LL-EQY)	Combination		Y	0.003782	5	0	62.94	6.6
story 2	1.2(DL+LL+RSY)	Combination	Max	X	0.001526	81	13.18	0	6.6
story 2	1.2(DL+LL+RSY)	Combination	Max	Y	0.003291	80	21.76	0	6.6
story 2	1.2(DL+LL+RSY)	Combination	Min	Y	0.003403	1	21.76	62.94	6.6
story 2	1.2(DL+LL-RSY)	Combination	Max	X	0.001526	81	13.18	0	6.6
story 2	1.2(DL+LL-RSY)	Combination	Max	Y	0.003291	80	21.76	0	6.6
story 2	1.2(DL+LL-RSY)	Combination	Min	Y	0.003403	1	21.76	62.94	6.6
story 2	1.5(DL+EQX)	Combination		X	0.004166	81	13.18	0	6.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 2	1.5(DL+EQY)	Combination		X	0.000854	81	13.18	0	6.6
story 2	1.5(DL+EQY)	Combination		Y	0.004383	80	21.76	0	6.6
story 2	1.5(DL+RSX)	Combination	Max	X	0.004446	81	13.18	0	6.6
story 2	1.5(DL+RSX)	Combination	Max	Y	0.001087	42	0.6	41	6.6
story 2	1.5(DL+RSX)	Combination	Min	X	0.003626	1	21.76	62.94	6.6
story 2	1.5(DL+RSX)	Combination	Min	Y	0.001597	5	0	62.94	6.6
story 2	1.5(DL+RSY)	Combination	Max	X	0.001844	81	13.18	0	6.6
story 2	1.5(DL+RSY)	Combination	Max	Y	0.004134	80	21.76	0	6.6
story 2	1.5(DL+RSY)	Combination	Min	Y	0.004218	1	21.76	62.94	6.6
story 2	1.5(DL-EQX)	Combination		X	0.003216	80	21.76	0	6.6
story 2	1.5(DL-EQY)	Combination		Y	0.004674	5	0	62.94	6.6
story 2	1.5(DL-RSX)	Combination	Max	X	0.004446	81	13.18	0	6.6
story 2	1.5(DL-RSX)	Combination	Max	Y	0.001087	42	0.6	41	6.6
story 2	1.5(DL-RSX)	Combination	Min	X	0.003626	1	21.76	62.94	6.6
story 2	1.5(DL-RSX)	Combination	Min	Y	0.001597	5	0	62.94	6.6
story 2	1.5(DL-RSY)	Combination	Max	X	0.001844	81	13.18	0	6.6
story 2	1.5(DL-RSY)	Combination	Max	Y	0.004134	80	21.76	0	6.6
story 2	1.5(DL-RSY)	Combination	Min	Y	0.004218	1	21.76	62.94	6.6
story 2	DL+0.8LL+0.8EQX	Combination		X	0.002322	81	13.18	0	6.6
story 2	DL+0.8LL+0.8EQY	Combination		X	0.000556	81	13.18	0	6.6
story 2	DL+0.8LL+0.8EQY	Combination		Y	0.002326	80	21.76	0	6.6
story 2	DL+0.8LL+0.8RSX	Combination		X	0.000556	81	13.18	0	6.6
story 2	DL+0.8LL+0.8RSX	Combination		Y	0.002326	80	21.76	0	6.6
story 2	DL+0.8LL-0.8EQX	Combination		X	0.001624	80	21.76	0	6.6
story 2	DL+0.8LL-0.8EQX	Combination		Y	0.000289	1	21.76	62.94	6.6
story 2	DL+0.8LL-0.8EQY	Combination		Y	0.002562	5	0	62.94	6.6
story 2	DL+0.8LL-0.8RSX	Combination	Max	X	0.002472	81	13.18	0	6.6
story 2	DL+0.8LL-0.8RSX	Combination	Max	Y	0.000536	42	0.6	41	6.6
story 2	DL+0.8LL-0.8RSX	Combination	Min	X	0.001896	1	21.76	62.94	6.6
story 2	DL+0.8LL-0.8RSX	Combination	Min	Y	0.000921	5	0	62.94	6.6
story 2	DL+0.8LL+0.8RSY	Combination	Max	X	0.001084	81	13.18	0	6.6
story 2	DL+0.8LL+0.8RSY	Combination	Max	Y	0.002193	80	21.76	0	6.6
story 2	DL+0.8LL+0.8RSY	Combination	Min	Y	0.002289	5	0	62.94	6.6
story 2	DL+0.8LL-0.8RSY	Combination	Max	X	0.001084	81	13.18	0	6.6
story 2	DL+0.8LL-0.8RSY	Combination	Max	Y	0.002193	80	21.76	0	6.6
story 2	DL+0.8LL-0.8RSY	Combination	Min	Y	0.002289	5	0	62.94	6.6
story 2	DL+EQX	Combination		X	0.002777	81	13.18	0	6.6
story 2	DL+EQY	Combination		X	0.000569	81	13.18	0	6.6
story 2	DL+EQY	Combination		Y	0.002922	80	21.76	0	6.6
story 2	DL+RSX	Combination	Max	X	0.002964	81	13.18	0	6.6
story 2	DL+RSX	Combination	Max	Y	0.000725	42	0.6	41	6.6
story 2	DL+RSX	Combination	Min	X	0.002417	1	21.76	62.94	6.6
story 2	DL+RSX	Combination	Min	Y	0.001065	5	0	62.94	6.6
story 2	DL+RSY	Combination	Max	X	0.001229	81	13.18	0	6.6
story 2	DL+RSY	Combination	Max	Y	0.002756	80	21.76	0	6.6
story 2	DL+RSY	Combination	Min	Y	0.002812	1	21.76	62.94	6.6
story 2	DL-EQX	Combination		X	0.002144	80	21.76	0	6.6
story 2	DL-EQY	Combination		Y	0.003116	5	0	62.94	6.6
story 2	DL-RSX	Combination	Max	X	0.002964	81	13.18	0	6.6
story 2	DL-RSX	Combination	Max	Y	0.000725	42	0.6	41	6.6
story 2	DL-RSX	Combination	Min	X	0.002417	1	21.76	62.94	6.6
story 2	DL-RSX	Combination	Min	Y	0.001065	5	0	62.94	6.6
story 2	DL-RSY	Combination	Max	X	0.001229	81	13.18	0	6.6
story 2	DL-RSY	Combination	Max	Y	0.002756	80	21.76	0	6.6
story 2	DL-RSY	Combination	Min	Y	0.002812	1	21.76	62.94	6.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 2	1.5(DL+LL)	Combination		X	0.000567	81	13.18	0	6.6
story 2	1.5(DL+LL)	Combination		Y	0.000357	5	0	62.94	6.6
story 2	ultimate envelope	Combination	Max	X	0.004446	81	13.18	0	6.6
story 2	ultimate envelope	Combination	Max	Y	0.004386	80	21.76	0	6.6
story 2	ultimate envelope	Combination	Min	X	0.003684	80	21.76	0	6.6
story 2	ultimate envelope	Combination	Min	Y	0.004674	5	0	62.94	6.6
story 2	seismic weight	Combination		X	0.000346	81	13.18	0	6.6
story 2	seismic weight	Combination		Y	0.00021	5	0	62.94	6.6
story 1	Dead	LinStatic		X	0.00016	76	13.3	9.45	3.6
story 1	Dead	LinStatic		Y	6.9E-05	4	3.28	62.94	3.6
story 1	Live	LinStatic		X	4.8E-05	76	13.3	9.45	3.6
story 1	Live	LinStatic		Y	2.7E-05	4	3.28	62.94	3.6
story 1	Floor finish	LinStatic		X	6E-05	76	13.3	9.45	3.6
story 1	Floor finish	LinStatic		Y	3.4E-05	4	3.28	62.94	3.6
story 1	sunken filling	LinStatic		X	3.2E-05	76	13.3	9.45	3.6
story 1	wall load	LinStatic		X	8.7E-05	76	13.3	9.45	3.6
story 1	wall load	LinStatic		Y	3.6E-05	4	3.28	62.94	3.6
story 1	sesmic - X	LinStatic		X	0.002661	80	21.76	0	3.6
story 1	sesmic - Y	LinStatic		Y	0.004463	59	17.45	23.58	3.6
story 1	RSX	LinRespSpec	Max	X	0.003069	80	21.76	0	3.6
story 1	RSX	LinRespSpec	Max	Y	0.001086	24	-0.12	53.34	3.6
story 1	RXY	LinRespSpec	Max	X	0.001109	80	21.76	0	3.6
story 1	RXY	LinRespSpec	Max	Y	0.004449	59	17.45	23.58	3.6
story 1	roof live	LinStatic		X	4E-06	1	21.76	62.94	3.6
story 1	roof live	LinStatic		Y	4E-06	80	21.76	0	3.6
story 1	(DL+LL)	Combination		X	0.000387	76	13.3	9.45	3.6
story 1	(DL+LL)	Combination		Y	0.000177	4	3.28	62.94	3.6
story 1	09DL+1.5EQX	Combination		X	0.004205	81	13.18	0	3.6
story 1	09DL-1.5EQX	Combination		X	0.003777	80	21.76	0	3.6
story 1	0.9DL+1.5RSX	Combination	Max	X	0.004817	80	21.76	0	3.6
story 1	0.9DL+1.5RSX	Combination	Max	Y	0.001551	24	-0.12	53.34	3.6
story 1	0.9DL+1.5RSX	Combination	Min	X	0.00439	80	21.76	0	3.6
story 1	0.9DL+1.5RSX	Combination	Min	Y	0.001709	24	-0.12	53.34	3.6
story 1	0.9DL-1.5RSX	Combination	Max	X	0.004817	80	21.76	0	3.6
story 1	0.9DL-1.5RSX	Combination	Max	Y	0.001551	24	-0.12	53.34	3.6
story 1	0.9DL-1.5RSX	Combination	Min	X	0.00439	80	21.76	0	3.6
story 1	0.9DL-1.5RSX	Combination	Min	Y	0.001709	24	-0.12	53.34	3.6
story 1	09DL-1.5EQY	Combination		Y	0.006741	59	17.45	23.58	3.6
story 1	09DL+1.5EQY	Combination		Y	0.006647	59	17.45	23.58	3.6
story 1	0.9DL+1.5RSY	Combination	Max	X	0.001883	82	8.88	0	3.6
story 1	0.9DL+1.5RSY	Combination	Max	Y	0.006626	59	17.45	23.58	3.6
story 1	0.9DL+1.5RSY	Combination	Min	X	0.001449	80	21.76	0	3.6
story 1	0.9DL+1.5RSY	Combination	Min	Y	0.00672	59	17.45	23.58	3.6
story 1	0.9DL-1.5RSY	Combination	Max	X	0.001883	82	8.88	0	3.6
story 1	0.9DL-1.5RSY	Combination	Max	Y	0.006626	59	17.45	23.58	3.6
story 1	0.9DL-1.5RSY	Combination	Min	X	0.001449	80	21.76	0	3.6
story 1	0.9DL-1.5RSY	Combination	Min	Y	0.00672	59	17.45	23.58	3.6
story 1	1.2(DL+LL+EQX)	Combination		X	0.003522	82	8.88	0	3.6
story 1	1.2(DL+LL-EQX)	Combination		X	0.002872	80	21.76	0	3.6
story 1	1.2(DL+LL+RSX)	Combination	Max	X	0.00401	82	8.88	0	3.6
story 1	1.2(DL+LL+RSX)	Combination	Max	Y	0.001181	24	-0.12	53.34	3.6
story 1	1.2(DL+LL+RSX)	Combination	Min	X	0.003362	80	21.76	0	3.6
story 1	1.2(DL+LL+RSX)	Combination	Min	Y	0.001426	24	-0.12	53.34	3.6
story 1	1.2(DL+LL-RSX)	Combination	Max	X	0.00401	82	8.88	0	3.6
story 1	1.2(DL+LL-RSX)	Combination	Max	Y	0.001181	24	-0.12	53.34	3.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 1	1.2(DL+LL-RSX)	Combination	Min	X	0.003362	80	21.76	0	3.6
story 1	1.2(DL+LL-RSX)	Combination	Min	Y	0.001426	24	-0.12	53.34	3.6
story 1	1.2(DL+LL+EQY)	Combination		Y	0.005277	59	17.45	23.58	3.6
story 1	1.2(DL+LL-EQY)	Combination		Y	0.005434	59	17.45	23.58	3.6
story 1	1.2(DL+LL+RSY)	Combination	Max	X	0.001665	82	8.88	0	3.6
story 1	1.2(DL+LL+RSY)	Combination	Max	Y	0.005259	59	17.45	23.58	3.6
story 1	1.2(DL+LL+RSY)	Combination	Min	Y	0.005417	59	17.45	23.58	3.6
story 1	1.2(DL+LL-RSY)	Combination	Max	X	0.001665	82	8.88	0	3.6
story 1	1.2(DL+LL-RSY)	Combination	Max	Y	0.005259	59	17.45	23.58	3.6
story 1	1.2(DL+LL-RSY)	Combination	Min	Y	0.005417	59	17.45	23.58	3.6
story 1	1.5(DL+EQX)	Combination		X	0.004354	82	8.88	0	3.6
story 1	1.5(DL+EQY)	Combination		Y	0.006616	59	17.45	23.58	3.6
story 1	1.5(DL+RSX)	Combination	Max	X	0.004965	81	13.18	0	3.6
story 1	1.5(DL+RSX)	Combination	Max	Y	0.001498	24	-0.12	53.34	3.6
story 1	1.5(DL+RSX)	Combination	Min	X	0.004248	80	21.76	0	3.6
story 1	1.5(DL+RSX)	Combination	Min	Y	0.001761	24	-0.12	53.34	3.6
story 1	1.5(DL+RSY)	Combination	Max	X	0.002032	82	8.88	0	3.6
story 1	1.5(DL+RSY)	Combination	Max	Y	0.006594	59	17.45	23.58	3.6
story 1	1.5(DL+RSY)	Combination	Min	Y	0.006751	59	17.45	23.58	3.6
story 1	1.5(DL-EQX)	Combination		X	0.003635	80	21.76	0	3.6
story 1	1.5(DL-EQY)	Combination		Y	0.006773	59	17.45	23.58	3.6
story 1	1.5(DL-RSX)	Combination	Max	X	0.004965	81	13.18	0	3.6
story 1	1.5(DL-RSX)	Combination	Max	Y	0.001498	24	-0.12	53.34	3.6
story 1	1.5(DL-RSX)	Combination	Min	X	0.004248	80	21.76	0	3.6
story 1	1.5(DL-RSX)	Combination	Min	Y	0.001761	24	-0.12	53.34	3.6
story 1	1.5(DL-RSY)	Combination	Max	X	0.002032	82	8.88	0	3.6
story 1	1.5(DL-RSY)	Combination	Max	Y	0.006594	59	17.45	23.58	3.6
story 1	1.5(DL-RSY)	Combination	Min	Y	0.006751	59	17.45	23.58	3.6
story 1	DL+0.8LL+0.8EQX	Combination		X	0.002398	82	8.88	0	3.6
story 1	DL+0.8LL+0.8EQY	Combination		Y	0.003507	59	17.45	23.58	3.6
story 1	DL+0.8LL+0.8RSX	Combination		Y	0.003507	59	17.45	23.58	3.6
story 1	DL+0.8LL-0.8EQX	Combination		X	0.001867	80	21.76	0	3.6
story 1	DL+0.8LL-0.8EQY	Combination		Y	0.003633	59	17.45	23.58	3.6
story 1	DL+0.8LL-0.8RSX	Combination	Max	X	0.002723	82	8.88	0	3.6
story 1	DL+0.8LL-0.8RSX	Combination	Max	Y	0.00077	24	-0.12	53.34	3.6
story 1	DL+0.8LL-0.8RSX	Combination	Min	X	0.002194	80	21.76	0	3.6
story 1	DL+0.8LL-0.8RSX	Combination	Min	Y	0.000968	24	-0.12	53.34	3.6
story 1	DL+0.8LL+0.8RSY	Combination	Max	X	0.00116	82	8.88	0	3.6
story 1	DL+0.8LL+0.8RSY	Combination	Max	Y	0.003496	59	17.45	23.58	3.6
story 1	DL+0.8LL+0.8RSY	Combination	Min	Y	0.003622	59	17.45	23.58	3.6
story 1	DL+0.8LL-0.8RSY	Combination	Max	X	0.00116	82	8.88	0	3.6
story 1	DL+0.8LL-0.8RSY	Combination	Max	Y	0.003496	59	17.45	23.58	3.6
story 1	DL+0.8LL-0.8RSY	Combination	Min	Y	0.003622	59	17.45	23.58	3.6
story 1	DL+EQX	Combination		X	0.002903	82	8.88	0	3.6
story 1	DL+EQY	Combination		Y	0.00441	59	17.45	23.58	3.6
story 1	DL+RSX	Combination	Max	X	0.00331	81	13.18	0	3.6
story 1	DL+RSX	Combination	Max	Y	0.000999	24	-0.12	53.34	3.6
story 1	DL+RSX	Combination	Min	X	0.002832	80	21.76	0	3.6
story 1	DL+RSX	Combination	Min	Y	0.001174	24	-0.12	53.34	3.6
story 1	DL+RSY	Combination	Max	X	0.001355	82	8.88	0	3.6
story 1	DL+RSY	Combination	Max	Y	0.004396	59	17.45	23.58	3.6
story 1	DL+RSY	Combination	Min	Y	0.004501	59	17.45	23.58	3.6
story 1	DL-EQX	Combination		X	0.002423	80	21.76	0	3.6
story 1	DL-EQY	Combination		Y	0.004515	59	17.45	23.58	3.6
story 1	DL-RSX	Combination	Max	X	0.00331	81	13.18	0	3.6

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
story 1	DL-RSX	Combination	Max	Y	0.000999	24	-0.12	53.34	3.6
story 1	DL-RSX	Combination	Min	X	0.002832	80	21.76	0	3.6
story 1	DL-RSX	Combination	Min	Y	0.001174	24	-0.12	53.34	3.6
story 1	DL-RSY	Combination	Max	X	0.001355	82	8.88	0	3.6
story 1	DL-RSY	Combination	Max	Y	0.004396	59	17.45	23.58	3.6
story 1	DL-RSY	Combination	Min	Y	0.004501	59	17.45	23.58	3.6
story 1	1.5(DL+LL)	Combination		X	0.000581	76	13.3	9.45	3.6
story 1	1.5(DL+LL)	Combination		Y	0.000265	4	3.28	62.94	3.6
story 1	ultimate envelope	Combination	Max	X	0.004965	81	13.18	0	3.6
story 1	ultimate envelope	Combination	Max	Y	0.006647	59	17.45	23.58	3.6
story 1	ultimate envelope	Combination	Min	X	0.00439	80	21.76	0	3.6
story 1	ultimate envelope	Combination	Min	Y	0.006773	59	17.45	23.58	3.6
story 1	seismic weight	Combination		X	0.000352	76	13.3	9.45	3.6
story 1	seismic weight	Combination		Y	0.000154	4	3.28	62.94	3.6
plinth beam	Dead	LinStatic		X	6.9E-05	8	7.09	57.42	0
plinth beam	Dead	LinStatic		Y	6.6E-05	4	3.28	62.94	0
plinth beam	Live	LinStatic		X	2.4E-05	8	7.09	57.42	0
plinth beam	Live	LinStatic		Y	2.8E-05	4	3.28	62.94	0
plinth beam	Floor finish	LinStatic		X	3.3E-05	8	7.09	57.42	0
plinth beam	Floor finish	LinStatic		Y	3.4E-05	4	3.28	62.94	0
plinth beam	sunken filling	LinStatic		X	1.5E-05	8	7.09	57.42	0
plinth beam	sunken filling	LinStatic		Y	1.1E-05	4	3.28	62.94	0
plinth beam	wall load	LinStatic		X	4E-05	80	21.76	0	0
plinth beam	wall load	LinStatic		Y	2.1E-05	4	3.28	62.94	0
plinth beam	sesmic - X	LinStatic		X	0.001429	82	8.88	0	0
plinth beam	sesmic - Y	LinStatic		Y	0.002468	58	21.76	23.58	0
plinth beam	RSX	LinRespSpec	Max	X	0.001691	82	8.88	0	0
plinth beam	RSX	LinRespSpec	Max	Y	0.000587	24	-0.12	53.34	0
plinth beam	RXY	LinRespSpec	Max	X	0.000621	82	8.88	0	0
plinth beam	RXY	LinRespSpec	Max	Y	0.002528	58	21.76	23.58	0
plinth beam	roof live	LinStatic		X	2E-06	12	11.62	53.34	0
plinth beam	roof live	LinStatic		Y	2E-06	80	21.76	0	0
plinth beam	(DL+LL)	Combination		X	0.000166	80	21.76	0	0
plinth beam	(DL+LL)	Combination		Y	0.000159	4	3.28	62.94	0
plinth beam	09DL+1.5EQX	Combination		X	0.002246	80	21.76	0	0
plinth beam	09DL-1.5EQX	Combination		X	0.00207	76	13.3	9.45	0
plinth beam	0.9DL+1.5RSX	Combination	Max	X	0.002634	80	21.76	0	0
plinth beam	0.9DL+1.5RSX	Combination	Max	Y	0.000931	5	0	62.94	0
plinth beam	0.9DL+1.5RSX	Combination	Min	X	0.00244	82	8.88	0	0
plinth beam	0.9DL+1.5RSX	Combination	Min	Y	0.000901	42	0.6	41	0
plinth beam	0.9DL-1.5RSX	Combination	Max	X	0.002634	80	21.76	0	0
plinth beam	0.9DL-1.5RSX	Combination	Max	Y	0.000931	5	0	62.94	0
plinth beam	0.9DL-1.5RSX	Combination	Min	X	0.00244	82	8.88	0	0
plinth beam	0.9DL-1.5RSX	Combination	Min	Y	0.000901	42	0.6	41	0
plinth beam	09DL-1.5EQY	Combination		Y	0.003725	80	21.76	0	0
plinth beam	09DL+1.5EQY	Combination		Y	0.003695	1	21.76	62.94	0
plinth beam	0.9DL+1.5RSY	Combination	Max	X	0.001052	80	21.76	0	0
plinth beam	0.9DL+1.5RSY	Combination	Max	Y	0.003783	58	21.76	23.58	0
plinth beam	0.9DL+1.5RSY	Combination	Min	X	0.000837	82	8.88	0	0
plinth beam	0.9DL+1.5RSY	Combination	Min	Y	0.003818	80	21.76	0	0
plinth beam	0.9DL-1.5RSY	Combination	Max	X	0.001052	80	21.76	0	0
plinth beam	0.9DL-1.5RSY	Combination	Max	Y	0.003783	58	21.76	23.58	0
plinth beam	0.9DL-1.5RSY	Combination	Min	X	0.000837	82	8.88	0	0
plinth beam	0.9DL-1.5RSY	Combination	Min	Y	0.003818	80	21.76	0	0
plinth beam	1.2(DL+LL+EQX)	Combination		X	0.001891	80	21.76	0	0

Story	Output Case	Case Type	Step Type	Direction	Drift	Label	X m	Y m	Z m
plinth beam	1.2(DL+LL-EQX)	Combination		X	0.001711	76	13.3	9.45	0
plinth beam	1.2(DL+LL+RSX)	Combination	Max	X	0.002202	80	21.76	0	0
plinth beam	1.2(DL+LL+RSX)	Combination	Max	Y	0.000789	5	0	62.94	0
plinth beam	1.2(DL+LL+RSX)	Combination	Min	X	0.001885	82	8.88	0	0
plinth beam	1.2(DL+LL+RSX)	Combination	Min	Y	0.000743	42	0.6	41	0
plinth beam	1.2(DL+LL-RSX)	Combination	Max	X	0.002202	80	21.76	0	0
plinth beam	1.2(DL+LL-RSX)	Combination	Max	Y	0.000789	5	0	62.94	0
plinth beam	1.2(DL+LL-RSX)	Combination	Min	X	0.001885	82	8.88	0	0
plinth beam	1.2(DL+LL-RSX)	Combination	Min	Y	0.000743	42	0.6	41	0
plinth beam	1.2(DL+LL+EQY)	Combination		Y	0.002992	1	21.76	62.94	0
plinth beam	1.2(DL+LL-EQY)	Combination		Y	0.003022	80	21.76	0	0
plinth beam	1.2(DL+LL+RSY)	Combination	Max	X	0.000936	80	21.76	0	0
plinth beam	1.2(DL+LL+RSY)	Combination	Max	Y	0.00306	1	21.76	62.94	0
plinth beam	1.2(DL+LL+RSY)	Combination	Min	X	0.000699	76	13.3	9.45	0
plinth beam	1.2(DL+LL+RSY)	Combination	Min	Y	0.003096	80	21.76	0	0
plinth beam	1.2(DL+LL-RSY)	Combination	Max	X	0.000936	80	21.76	0	0
plinth beam	1.2(DL+LL-RSY)	Combination	Max	Y	0.00306	1	21.76	62.94	0
plinth beam	1.2(DL+LL-RSY)	Combination	Min	X	0.000699	76	13.3	9.45	0
plinth beam	1.2(DL+LL-RSY)	Combination	Min	Y	0.003096	80	21.76	0	0
plinth beam	1.5(DL+EQX)	Combination		X	0.002333	80	21.76	0	0
plinth beam	1.5(DL+EQY)	Combination		Y	0.003729	1	21.76	62.94	0
plinth beam	1.5(DL+RSX)	Combination	Max	X	0.002721	80	21.76	0	0
plinth beam	1.5(DL+RSX)	Combination	Max	Y	0.000971	5	0	62.94	0
plinth beam	1.5(DL+RSX)	Combination	Min	X	0.002377	82	8.88	0	0
plinth beam	1.5(DL+RSX)	Combination	Min	Y	0.00092	42	0.6	41	0
plinth beam	1.5(DL+RSY)	Combination	Max	X	0.001139	80	21.76	0	0
plinth beam	1.5(DL+RSY)	Combination	Max	Y	0.003815	1	21.76	62.94	0
plinth beam	1.5(DL+RSY)	Combination	Min	X	0.000856	76	13.3	9.45	0
plinth beam	1.5(DL+RSY)	Combination	Min	Y	0.003854	80	21.76	0	0
plinth beam	1.5(DL-EQX)	Combination		X	0.002121	76	13.3	9.45	0
plinth beam	1.5(DL-EQY)	Combination		Y	0.003761	80	21.76	0	0
plinth beam	1.5(DL-RSX)	Combination	Max	X	0.002721	80	21.76	0	0
plinth beam	1.5(DL-RSX)	Combination	Max	Y	0.000971	5	0	62.94	0
plinth beam	1.5(DL-RSX)	Combination	Min	X	0.002377	82	8.88	0	0
plinth beam	1.5(DL-RSX)	Combination	Min	Y	0.00092	42	0.6	41	0
plinth beam	1.5(DL-RSY)	Combination	Max	X	0.001139	80	21.76	0	0
plinth beam	1.5(DL-RSY)	Combination	Max	Y	0.003815	1	21.76	62.94	0
plinth beam	1.5(DL-RSY)	Combination	Min	X	0.000856	76	13.3	9.45	0
plinth beam	1.5(DL-RSY)	Combination	Min	Y	0.003854	80	21.76	0	0
plinth beam	DL+0.8LL+0.8EQX	Combination		X	0.00129	80	21.76	0	0
plinth beam	DL+0.8LL+0.8EQY	Combination		Y	0.002006	1	21.76	62.94	0
plinth beam	DL+0.8LL+0.8RSX	Combination		Y	0.002006	1	21.76	62.94	0
plinth beam	DL+0.8LL-0.8EQX	Combination		X	0.001157	76	13.3	9.45	0
plinth beam	DL+0.8LL-0.8EQY	Combination		Y	0.002026	80	21.76	0	0
plinth beam	DL+0.8LL-0.8RSX	Combination	Max	X	0.001497	80	21.76	0	0
plinth beam	DL+0.8LL-0.8RSX	Combination	Max	Y	0.000539	5	0	62.94	0
plinth beam	DL+0.8LL-0.8RSX	Combination	Min	X	0.001235	82	8.88	0	0
plinth beam	DL+0.8LL-0.8RSX	Combination	Min	Y	0.000502	42	0.6	41	0
plinth beam	DL+0.8LL+0.8RSY	Combination	Max	X	0.000653	80	21.76	0	0
plinth beam	DL+0.8LL+0.8RSY	Combination	Max	Y	0.002052	1	21.76	62.94	0
plinth beam	DL+0.8LL+0.8RSY	Combination	Min	X	0.000483	76	13.3	9.45	0
plinth beam	DL+0.8LL+0.8RSY	Combination	Min	Y	0.002076	80	21.76	0	0
plinth beam	DL+0.8LL-0.8RSY	Combination	Max	X	0.000653	80	21.76	0	0
plinth beam	DL+0.8LL-0.8RSY	Combination	Max	Y	0.002052	1	21.76	62.94	0
plinth beam	DL+0.8LL-0.8RSY	Combination	Min	X	0.000483	76	13.3	9.45	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	Y	0.002076	80	21.76	0	0
plinth beam	DL+EQX	Combination		X	0.001555	80	21.76	0	0
plinth beam	DL+EQY	Combination		Y	0.002486	1	21.76	62.94	0
plinth beam	DL+RSX	Combination	Max	X	0.001814	80	21.76	0	0
plinth beam	DL+RSX	Combination	Max	Y	0.000648	5	0	62.94	0
plinth beam	DL+RSX	Combination	Min	X	0.001585	82	8.88	0	0
plinth beam	DL+RSX	Combination	Min	Y	0.000614	42	0.6	41	0
plinth beam	DL+RSY	Combination	Max	X	0.000759	80	21.76	0	0
plinth beam	DL+RSY	Combination	Max	Y	0.002543	1	21.76	62.94	0
plinth beam	DL+RSY	Combination	Min	X	0.000571	76	13.3	9.45	0
plinth beam	DL+RSY	Combination	Min	Y	0.002569	80	21.76	0	0
plinth beam	DL-EQX	Combination		X	0.001414	76	13.3	9.45	0
plinth beam	DL-EQY	Combination		Y	0.002507	80	21.76	0	0
plinth beam	DL-RSX	Combination	Max	X	0.001814	80	21.76	0	0
plinth beam	DL-RSX	Combination	Max	Y	0.000648	5	0	62.94	0
plinth beam	DL-RSX	Combination	Min	X	0.001585	82	8.88	0	0
plinth beam	DL-RSX	Combination	Min	Y	0.000614	42	0.6	41	0
plinth beam	DL-RSY	Combination	Max	X	0.000759	80	21.76	0	0
plinth beam	DL-RSY	Combination	Max	Y	0.002543	1	21.76	62.94	0
plinth beam	DL-RSY	Combination	Min	X	0.000571	76	13.3	9.45	0
plinth beam	DL-RSY	Combination	Min	Y	0.002569	80	21.76	0	0
plinth beam	1.5(DL+LL)	Combination		X	0.000249	80	21.76	0	0
plinth beam	1.5(DL+LL)	Combination		Y	0.000238	4	3.28	62.94	0
plinth beam	ultimate envelope	Combination	Max	X	0.002721	80	21.76	0	0
plinth beam	ultimate envelope	Combination	Max	Y	0.003815	1	21.76	62.94	0
plinth beam	ultimate envelope	Combination	Min	X	0.00244	82	8.88	0	0
plinth beam	ultimate envelope	Combination	Min	Y	0.003854	80	21.76	0	0
plinth beam	seismic weight	Combination		X	0.000151	80	21.76	0	0
plinth beam	seismic weight	Combination		Y	0.000139	4	3.28	62.94	0

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	SumRX
Modal	1	1.705	0.0044	0.9007	0	0.0044	0.9007	0	0.0841	0.0007	0.0104	0.0841
Modal	2	1.421	0.2968	0.0153	0	0.3012	0.916	0	0.0015	0.0474	0.5607	0.0856
Modal	3	1.198	0.5582	1.862E-05	0	0.8594	0.9161	0	0.0001	0.1001	0.3037	0.0857
Modal	4	0.517	0.0004	0.0503	0	0.8598	0.9664	0	0.7623	0.0018	0.0006	0.848
Modal	5	0.418	0.025	0.0007	0	0.8848	0.9671	0	0.0092	0.1911	0.0538	0.8572
Modal	6	0.349	0.0653	1.358E-06	0	0.9501	0.9671	0	1.085E-05	0.4664	0.0257	0.8572
Modal	7	0.284	2.852E-05	0.0009	0	0.9501	0.968	0	0.0016	0.0001	0.0004	0.8588
Modal	8	0.281	0.0001	0.0085	0	0.9502	0.9765	0	0.0172	0.0003	4.276E-06	0.876
Modal	9	0.23	0.0001	0.0001	0	0.9503	0.9766	0	0.0004	0.0003	0.0002	0.8764
Modal	10	0.219	0.0049	0.0001	0	0.9552	0.9766	0	0.0001	0.0136	0.0106	0.8765
Modal	11	0.202	0.0002	0	0	0.9554	0.9766	0	0	0.0007	0.0002	0.8765
Modal	12	0.199	0.0005	7.653E-07	0	0.956	0.9766	0	6.999E-06	0.002	0.0006	0.8765

DESIGN OF ISOLATED SQUARE FOOTING: (C48)

Load in kn (P)	3000	Breadth of pedestal	380
SBC in kn/m^2	165	Length of pedestal	750
Size of the footing required (B)	4.264014	Free end thickness	230
Net upward pressure (q)	164.5377	Size provided in m	4.27
Maximum bending moment @ face of the column (Mu)	1993.397	Size in feet	14.01
Depth required (d)	970.8956	Depth provided (d)	1000
K	3.761127		
Pt	1.049		
Ast in mm^2	5559.7		
Spacing of 10mm dia	60.32084		
Spacing of 12mm dia	86.86386		
Spacing of 16mm dia	154.4195		

Check for one way shear:

Shear force (V)	995.9016		
Eff. Depth (d')	619.1176		
Top width	2530		
Tv	0.635803	Tc from table-19	0.66
Pt	0.9		Safe in SHEAR
Ast in mm^2	14097.31		
Spacing of 10mm dia	23.78935		
Spacing of 12mm dia	34.25739		
Spacing of 16mm dia	60.90001		

Check for two way shear:

Punching shear (Vp)	3903.962		
Perimeter of the critical section	6260		
Eff. Depth (d')	825		
Tv	0.755923		
Tc	1.369306	Punching Ratio	0.55

Check for transfer of load @ the column base: Safe in punching

Permissible bearing stress	27
Actual bearing stress	10.52632

Design of short column with bi axial bending: C48

Description	GF	
Axial load in Kn	3194	
Moment in Knm (Mux)	322	
Moment in Knm (Muy)	224	
Assumed length of column in mm (D)	750	
Assumed breadth of column in mm (B)	300	
Assumed % of steel	3.9	
Grade of concrete	30	
p/fck	0.13	
d'/D	0.066666667	
d'/B	0.166666667	
Pu/(fck*B*D)	0.473185185	
Referring to chart in SP-16	chart-47	
Value from chart	0.18	
Mux1 in Knm	911.25	
Referring to chart in SP-16	chart-50	
Value from chart	0.13	
Muy1 in Knm	263.25	
Referring to chart-63 of SP-16		
Puz/ Ag	27	
Puz in Kn	6075	
Pu/Puz	0.525761317	
Mux/Mux1	0.353360768	
Muy/Muy1	0.850902184	
Referring to chart-64 of SP-16		
Permissible Muy/Muy1	0.87	
Check	safe and assumed % of steel is correct	
Ast required	8775	
Provide steel		
Dia of lateral ties:		
Dia of main rod provided	25	
6mm	6mm	
1/4 times Dia of main rod	06.25	
Dia of lateral ties choosen	8mm	
Spacing of lateral ties:		
16 times the dia of main rod		400
Least lateral dimension of column		300
Provide 8mm dia 2 legged lateral ties @	175 mm c/c	

Design of Floor Slab:

Assume the slab thickness as 125 mm

Dead load of slab (0.125 x 25)	=	3.13 kn/m^2
Live load	=	2.00 kn/m^2
Partition wall load	=	1.00 kn/m^2
Floor finish load	=	1.50 kn/m^2
		7.63 kn/m^2

Say w = 8.0 kn/m^2

Long span L_y = 7.24 m

Short span L_x = 3.28 m

L_y / L_x = 2.21 > 2.0

To design as one way slab & slab thickness as 125mm

Positive moment @ mid span = 1.5 x 8 x 3.28^2 / 8

= 16.14knm

Referring to the table – 37 of SP – 16 and assuming the slab thickness as 125mm

Provide 8mm dia @ 100mm 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 = 23.0 x 1.4 (referring to fig.4 of IS456)

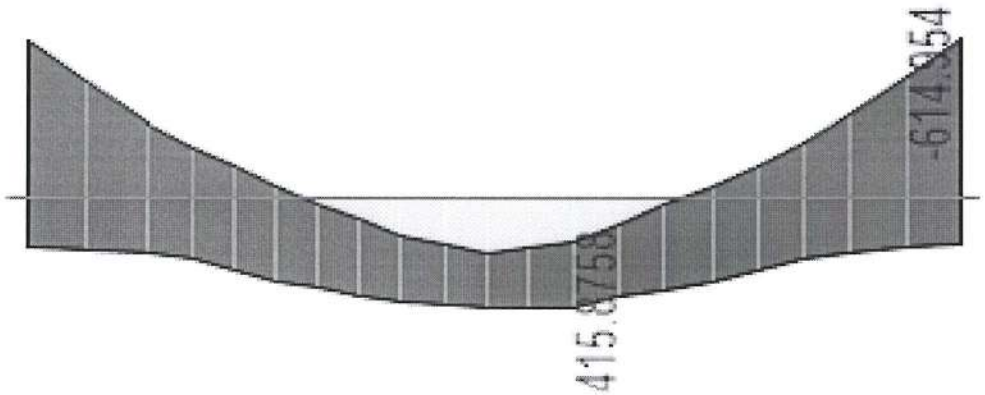
= 32.2

Actual deflection = 3280 / 105

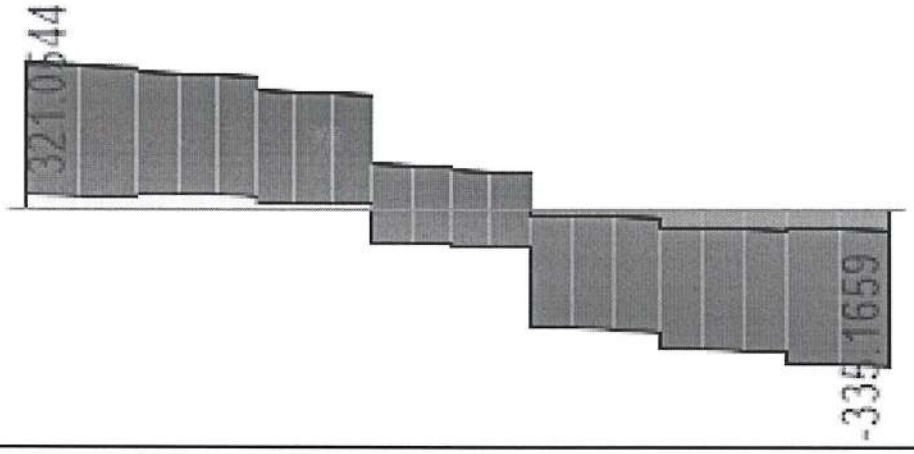
= 31.24 < 32.20

Hence safe

Design of critical floor beam:



Critical Bending Moment Diagram



Critical Shear Force Diagram

Assume beam size as 230mm x 675mm

Max factored B.M @ top of support = 615knm

K = 6.85, Pt= 1.837, Pc = 0.746

A_{st} = 2641 mm^2 A_{sc} = 1073 mm^2

Therefore provide 5-25+1-16mm dia@ top of support

Max factored moment @ bottom = 416knm

K = 4.63, Pt = 1.305, Pc = 0.182

A_{st} = 1876 mm^2

Therefore provide 3-25+2-16mm dia @ bottom

Factored shear force @ support = 336kn

V_{us} = 336000 – (0.80 x 230 x 625)

V_{us}/d = 3.54kn/cm

Referring to Table – 62 of SP-16, provide 8mm dia stirrups @ 100mm c/c

end of report

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