

فصل هفتم

خروجی ایتبس



**AISC-LRFD93
Steel Frame Design Report**

Prepared by
jgj

Model Name: edb2.edb

4 ژانویه ۲۰۱۴

Load Combinations

Load Combinations

Combination Name	Combination Definition
COMB1	$1/400 \cdot DL + 1/700 \cdot LL$
COMB2	$1/050 \cdot DL + 1/275 \cdot LL + 1/403 \cdot EX1$
COMB3	$1/050 \cdot DL + 1/275 \cdot LL - 1/403 \cdot EX1$
COMB4	$1/050 \cdot DL + 1/275 \cdot LL - 1/403 \cdot EX2$
COMB5	$1/050 \cdot DL + 1/275 \cdot LL + 1/403 \cdot EX2$
COMB6	$1/050 \cdot DL + 1/275 \cdot LL + 1/403 \cdot EY1$
COMB7	$1/050 \cdot DL + 1/275 \cdot LL - 1/403 \cdot EY1$
COMB8	$1/050 \cdot DL + 1/275 \cdot LL - 1/403 \cdot EY2$
COMB9	$1/050 \cdot DL + 1/275 \cdot LL + 1/403 \cdot EY2$
COMB10	$0/900 \cdot DL + 1/430 \cdot EX1$
COMB11	$0/900 \cdot DL - 1/430 \cdot EX1$
COMB12	$0/900 \cdot DL - 1/430 \cdot EX2$
COMB13	$0/900 \cdot DL + 1/430 \cdot EX2$
COMB14	$0/900 \cdot DL + 1/430 \cdot EY1$
COMB15	$0/900 \cdot DL - 1/430 \cdot EY1$
COMB16	$0/900 \cdot DL - 1/430 \cdot EY2$
COMB17	$0/900 \cdot DL + 1/430 \cdot EY2$
DSTLS1	$1/400 \cdot DL$
DSTLS2	$1/200 \cdot DL + 1/600 \cdot LL$
DSTLS3	$1/200 \cdot DL + 0/500 \cdot LL + 1/000 \cdot EX1$
DSTLS4	$1/200 \cdot DL + 0/500 \cdot LL - 1/000 \cdot EX1$
DSTLS5	$1/200 \cdot DL + 0/500 \cdot LL + 1/000 \cdot EX2$
DSTLS6	$1/200 \cdot DL + 0/500 \cdot LL - 1/000 \cdot EX2$
DSTLS7	$1/200 \cdot DL + 0/500 \cdot LL + 1/000 \cdot EY1$
DSTLS8	$1/200 \cdot DL + 0/500 \cdot LL - 1/000 \cdot EY1$
DSTLS9	$1/200 \cdot DL + 0/500 \cdot LL + 1/000 \cdot EY2$
DSTLS10	$1/200 \cdot DL + 0/500 \cdot LL - 1/000 \cdot EY2$
DSTLS11	$1/200 \cdot DL + 1/000 \cdot EX1$
DSTLS12	$1/200 \cdot DL - 1/000 \cdot EX1$
DSTLS13	$1/200 \cdot DL + 1/000 \cdot EX2$
DSTLS14	$1/200 \cdot DL - 1/000 \cdot EX2$
DSTLS15	$1/200 \cdot DL + 1/000 \cdot EY1$
DSTLS16	$1/200 \cdot DL - 1/000 \cdot EY1$
DSTLS17	$1/200 \cdot DL + 1/000 \cdot EY2$
DSTLS18	$1/200 \cdot DL - 1/000 \cdot EY2$
DSTLS19	$0/900 \cdot DL + 1/000 \cdot EX1$
DSTLS20	$0/900 \cdot DL - 1/000 \cdot EX1$
DSTLS21	$0/900 \cdot DL + 1/000 \cdot EX2$
DSTLS22	$0/900 \cdot DL - 1/000 \cdot EX2$
DSTLS23	$0/900 \cdot DL + 1/000 \cdot EY1$
DSTLS24	$0/900 \cdot DL - 1/000 \cdot EY1$
DSTLS25	$0/900 \cdot DL + 1/000 \cdot EY2$
DSTLS26	$0/900 \cdot DL - 1/000 \cdot EY2$
DSTLD1	$1/000 \cdot DL$
DSTLD2	$1/000 \cdot DL + 1/000 \cdot LL$

Material Property Data - General

Material Property Data - General

Name	Type	Dir/Plane	Modulus of Elasticity	Poisson's Ratio	Thermal Coefficient	Shear Modulus
STEEL	Iso	All	2/039E+10	0/3000	1/1700E-05	7842307692

Material Property Data - Mass & Weight

Material Property Data - Mass & Weight

Name	Mass per Unit Volume	Weight per Unit Volume
STEEL	8/0000E+02	7/8500E+03

Material Property Data - Steel Design

Material Property Data - Steel Design

Name	Steel F_y	Steel F_u	Cost per Unit Weight
STEEL	24000000/000	36000000/00	27679910/00

Frame Section Property Data - General

Frame Section Property Data - General

Frame Section Name	Material Name	Section Shape Name or Name in Properties File
IPE160	STEEL	IPE160
2UNO100	STEEL	SD Section
IPE100-A	STEEL	IPE100
IPE140-A	STEEL	IPE140
IPE180-A	STEEL	IPE180
IPE200-A	STEEL	IPE200
IPE220-A	STEEL	IPE220
IPE240-A	STEEL	IPE240
IPE270-A	STEEL	IPE270
IPE300-A	STEEL	IPE300
IPE330-A	STEEL	IPE330
2IPE270	STEEL	SD Section
2IPE240	STEEL	SD Section
2IPE140	STEEL	SD Section
2IPE300	STEEL	SD Section
2IPE330	STEEL	SD Section
2UNP80	STEEL	SD Section
2UNP120	STEEL	SD Section

Frame Section Property Data - Dimensions

Frame Section Property Data - Dimensions

Frame Section Name	Section Depth	Top Flange Width	Top Flange Thickness	Web Thickness	Bot Flange Width	Bot Flange Thickness
IPE160	0/1600	0/0820	0/0074	0/0050	0/0820	0/0074
2UNO100	0/1000	0/1150	0/0000	0/0000	0/0000	0/0000

Frame Section Property Data - Dimensions

Frame Section Name	Section Depth	Top Flange Width	Top Flange Thickness	Web Thickness	Bot Flange Width	Bot Flange Thickness
IPE100-A	0/1000	0/0550	0/0057	0/0041	0/0550	0/0057
IPE140-A	0/1400	0/0730	0/0069	0/0047	0/0730	0/0069
IPE180-A	0/1800	0/0910	0/0080	0/0053	0/0910	0/0080
IPE200-A	0/2000	0/1000	0/0085	0/0056	0/1000	0/0085
IPE220-A	0/2200	0/1100	0/0092	0/0059	0/1100	0/0092
IPE240-A	0/2400	0/1200	0/0098	0/0062	0/1200	0/0098
IPE270-A	0/2700	0/1350	0/0102	0/0066	0/1350	0/0102
IPE300-A	0/3000	0/1500	0/0107	0/0071	0/1500	0/0107
IPE330-A	0/3300	0/1600	0/0115	0/0075	0/1600	0/0115
2IPE270	0/2700	0/2700	0/0000	0/0000	0/0000	0/0000
2IPE240	0/2400	0/2400	0/0000	0/0000	0/0000	0/0000
2IPE140	0/1400	0/1460	0/0000	0/0000	0/0000	0/0000
2IPE300	0/3000	0/3000	0/0000	0/0000	0/0000	0/0000
2IPE330	0/3300	0/3200	0/0000	0/0000	0/0000	0/0000
2UNP80	0/0800	0/0980	0/0000	0/0000	0/0000	0/0000
2UNP120	0/1200	0/1180	0/0000	0/0000	0/0000	0/0000

Frame Section Property Data - Properties Part 1 of 2

Frame Section Property Data - Properties Part 1 of 2

Frame Section Name	Section Area	Torsional Constant	Moment of Inertia I33	Moment of Inertia I22	Shear Area A2	Shear Area A3
IPE160	0/0020	0/0000	0/0000	0/0000	0/0008	0/0010
2UNO100	0/0027	0/0000	0/0000	0/0000	0/0012	0/0023
IPE100-A	0/0010	0/0000	0/0000	0/0000	0/0004	0/0005
IPE140-A	0/0016	0/0000	0/0000	0/0000	0/0007	0/0008
IPE180-A	0/0024	0/0000	0/0000	0/0000	0/0010	0/0012
IPE200-A	0/0029	0/0000	0/0000	0/0000	0/0011	0/0014
IPE220-A	0/0033	0/0000	0/0000	0/0000	0/0013	0/0017
IPE240-A	0/0039	0/0000	0/0000	0/0000	0/0015	0/0020
IPE270-A	0/0046	0/0000	0/0001	0/0000	0/0018	0/0023
IPE300-A	0/0054	0/0000	0/0001	0/0000	0/0021	0/0027
IPE330-A	0/0063	0/0000	0/0001	0/0000	0/0025	0/0031
2IPE270	0/0092	0/0000	0/0001	0/0001	0/0035	0/0043
2IPE240	0/0078	0/0000	0/0001	0/0000	0/0029	0/0037
2IPE140	0/0033	0/0000	0/0000	0/0000	0/0013	0/0016
2IPE300	0/0108	0/0001	0/0002	0/0001	0/0042	0/0050
2IPE330	0/0125	0/0001	0/0002	0/0001	0/0049	0/0057
2UNP80	0/0022	0/0000	0/0000	0/0000	0/0009	0/0017
2UNP120	0/0034	0/0000	0/0000	0/0000	0/0016	0/0023

Frame Section Property Data - Properties Part 2 of 2

Frame Section Property Data - Properties Part 2 of 2

Frame Section Name	Section Modulus S33	Section Modulus S22	Plastic Modulus Z33	Plastic Modulus Z22	Radius of Gyration r33	Radius of Gyration r22
IPE160	0/0001	0/0000	0/0001	0/0000	0/0658	0/0184
2UNO100	0/0001	0/0001	0/0001	0/0001	0/0391	0/0446

Frame Section Property Data - Properties Part 2 of 2

Frame Section Name	Section Modulus S33	Section Modulus S22	Plastic Modulus Z33	Plastic Modulus Z22	Radius of Gyration r33	Radius of Gyration r22
IPE100-A	0/0000	0/0000	0/0000	0/0000	0/0407	0/0124
IPE140-A	0/0001	0/0000	0/0001	0/0000	0/0574	0/0165
IPE180-A	0/0001	0/0000	0/0002	0/0000	0/0742	0/0206
IPE200-A	0/0002	0/0000	0/0002	0/0000	0/0826	0/0223
IPE220-A	0/0003	0/0000	0/0003	0/0001	0/0911	0/0248
IPE240-A	0/0003	0/0000	0/0004	0/0001	0/0998	0/0270
IPE270-A	0/0004	0/0001	0/0005	0/0001	0/1123	0/0302
IPE300-A	0/0006	0/0001	0/0006	0/0001	0/1246	0/0335
IPE330-A	0/0007	0/0001	0/0008	0/0002	0/1371	0/0355
2IPE270	0/0009	0/0004	0/0009	0/0006	0/1123	0/0740
2IPE240	0/0006	0/0003	0/0007	0/0004	0/0998	0/0658
2IPE140	0/0002	0/0001	0/0002	0/0001	0/0574	0/0401
2IPE300	0/0011	0/0005	0/0012	0/0008	0/1246	0/0821
2IPE330	0/0014	0/0006	0/0015	0/0010	0/1371	0/0875
2UNP80	0/0001	0/0001	0/0001	0/0001	0/0310	0/0370
2UNP120	0/0001	0/0001	0/0001	0/0001	0/0463	0/0459

Steel Column Design - Element Information Part 1 of 2

Steel Column Design - Element Information Part 1 of 2

Story Level	Column Line	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY5	C1	2IPE240	MOMENT	1/000	0/916	0/916
STORY4	C1	2IPE270	MOMENT	1/000	0/906	0/906
STORY3	C1	2IPE270	MOMENT	1/000	0/906	0/906
STORY2	C1	2IPE270	MOMENT	0/993	0/897	0/897
STORY1	C1	2IPE270	MOMENT	0/955	0/897	0/897
STORY5	C2	2IPE240	MOMENT	1/000	0/916	0/916
STORY4	C2	2IPE270	MOMENT	1/000	0/906	0/906
STORY3	C2	2IPE270	MOMENT	0/944	0/906	0/906
STORY2	C2	2IPE270	MOMENT	0/886	0/897	0/897
STORY1	C2	2IPE270	MOMENT	0/828	0/906	0/906
STORY5	C3	2IPE240	MOMENT	1/000	0/916	0/916
STORY4	C3	2IPE270	MOMENT	0/996	0/906	0/906
STORY3	C3	2IPE270	MOMENT	0/934	0/906	0/906
STORY2	C3	2IPE270	MOMENT	0/873	0/897	0/897
STORY1	C3	2IPE270	MOMENT	0/807	0/897	0/897
STORY5	C4	2IPE240	MOMENT	1/000	0/906	0/906
STORY4	C4	2IPE270	MOMENT	1/000	0/906	0/906
STORY3	C4	2IPE270	MOMENT	1/000	0/906	0/906
STORY2	C4	2IPE270	MOMENT	0/982	0/906	0/906
STORY1	C4	2IPE270	MOMENT	0/943	0/897	0/897
STORY6	C5	2IPE140	MOMENT	1/000	0/936	0/936
STORY5	C5	2IPE240	MOMENT	1/000	0/500	0/500
STORY4	C5	2IPE270	MOMENT	1/000	0/500	0/500
STORY3	C5	2IPE270	MOMENT	1/000	0/500	0/500
STORY2	C5	2IPE270	MOMENT	0/983	0/500	0/500
STORY1	C5	2IPE270	MOMENT	0/954	0/500	0/897

Steel Column Design - Element Information Part 1 of 2

Story Level	Column Line	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY6	C6	2IPE140	MOMENT	1/000	0/936	0/936
STORY5	C6	2IPE270	MOMENT	0/998	0/916	0/916
STORY4	C6	2IPE270	MOMENT	0/901	0/906	0/906
STORY3	C6	2IPE270	MOMENT	0/803	0/906	0/906
STORY2	C6	2IPE270	MOMENT	0/705	0/897	0/897
STORY1	C6	2IPE300	MOMENT	0/604	0/897	0/897
STORY5	C7	2IPE270	MOMENT	0/991	0/916	0/916
STORY4	C7	2IPE270	MOMENT	0/866	0/906	0/906
STORY3	C7	2IPE270	MOMENT	0/741	0/906	0/906
STORY2	C7	2IPE300	MOMENT	0/614	0/897	0/897
STORY1	C7	2IPE300	MOMENT	0/486	0/897	0/897
STORY5	C8	2IPE270	MOMENT	1/000	0/906	0/906
STORY4	C8	2IPE270	MOMENT	1/000	0/906	0/906
STORY3	C8	2IPE270	MOMENT	0/951	0/906	0/906
STORY2	C8	2IPE330	MOMENT	0/895	0/916	0/916
STORY1	C8	2IPE270	MOMENT	0/838	0/897	0/897
STORY6	C9	2IPE140	MOMENT	1/000	0/936	0/936
STORY5	C9	2IPE240	MOMENT	1/000	0/500	0/500
STORY4	C9	2IPE270	MOMENT	1/000	0/500	0/500
STORY3	C9	2IPE270	MOMENT	1/000	0/500	0/500
STORY2	C9	2IPE270	MOMENT	0/986	0/500	0/500
STORY1	C9	2IPE270	MOMENT	0/958	0/500	0/897
STORY6	C10	2IPE140	MOMENT	1/000	0/936	0/936
STORY5	C10	2IPE270	MOMENT	1/000	0/916	0/916
STORY4	C10	2IPE270	MOMENT	0/904	0/906	0/906
STORY3	C10	2IPE270	MOMENT	0/808	0/906	0/906
STORY2	C10	2IPE270	MOMENT	0/712	0/897	0/897
STORY1	C10	2IPE300	MOMENT	0/614	0/897	0/897
STORY5	C11	2IPE270	MOMENT	0/993	0/916	0/916
STORY4	C11	2IPE270	MOMENT	0/870	0/906	0/906
STORY3	C11	2IPE270	MOMENT	0/746	0/906	0/906
STORY2	C11	2IPE300	MOMENT	0/622	0/897	0/897
STORY1	C11	2IPE300	MOMENT	0/496	0/897	0/897
STORY5	C12	2IPE270	MOMENT	1/000	0/906	0/906
STORY4	C12	2IPE270	MOMENT	1/000	0/906	0/906
STORY3	C12	2IPE270	MOMENT	0/954	0/906	0/906
STORY2	C12	2IPE330	MOMENT	0/898	0/916	0/916
STORY1	C12	2IPE270	MOMENT	0/842	0/897	0/897
STORY5	C13	2IPE240	MOMENT	1/000	0/916	0/916
STORY4	C13	2IPE270	MOMENT	1/000	0/906	0/906
STORY3	C13	2IPE270	MOMENT	1/000	0/906	0/906
STORY2	C13	2IPE270	MOMENT	0/997	0/897	0/897
STORY1	C13	2IPE270	MOMENT	0/960	0/897	0/897
STORY5	C14	2IPE240	MOMENT	1/000	0/916	0/916
STORY4	C14	2IPE270	MOMENT	1/000	0/906	0/906
STORY3	C14	2IPE270	MOMENT	0/947	0/906	0/906
STORY2	C14	2IPE270	MOMENT	0/891	0/897	0/897
STORY1	C14	2IPE270	MOMENT	0/834	0/906	0/906

Steel Column Design - Element Information Part 1 of 2

Story Level	Column Line	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY5	C15	2IPE240	MOMENT	1/000	0/916	0/916
STORY4	C15	2IPE270	MOMENT	0/998	0/906	0/906
STORY3	C15	2IPE270	MOMENT	0/937	0/906	0/906
STORY2	C15	2IPE270	MOMENT	0/878	0/897	0/897
STORY1	C15	2IPE270	MOMENT	0/814	0/897	0/897
STORY5	C16	2IPE240	MOMENT	1/000	0/906	0/906
STORY4	C16	2IPE270	MOMENT	1/000	0/906	0/906
STORY3	C16	2IPE270	MOMENT	1/000	0/906	0/906
STORY2	C16	2IPE270	MOMENT	0/987	0/906	0/906
STORY1	C16	2IPE270	MOMENT	0/949	0/897	0/897

Steel Column Design - Element Information Part 2 of 2

Steel Column Design - Element Information Part 2 of 2

Story Level	Column Line	Section Name	Frame Type	K Major	K Minor
STORY5	C1	2IPE240	MOMENT	1/634	1/981
STORY4	C1	2IPE270	MOMENT	1/846	1/834
STORY3	C1	2IPE270	MOMENT	1/793	1/666
STORY2	C1	2IPE270	MOMENT	1/687	1/559
STORY1	C1	2IPE270	MOMENT	1/493	1/435
STORY5	C2	2IPE240	MOMENT	1/634	1/753
STORY4	C2	2IPE270	MOMENT	1/846	1/676
STORY3	C2	2IPE270	MOMENT	1/793	1/569
STORY2	C2	2IPE270	MOMENT	1/793	1/490
STORY1	C2	2IPE270	MOMENT	1/585	1/402
STORY5	C3	2IPE240	MOMENT	1/634	1/711
STORY4	C3	2IPE270	MOMENT	1/846	1/637
STORY3	C3	2IPE270	MOMENT	1/793	1/466
STORY2	C3	2IPE270	MOMENT	1/687	1/466
STORY1	C3	2IPE270	MOMENT	1/493	1/422
STORY5	C4	2IPE240	MOMENT	1/557	1/909
STORY4	C4	2IPE270	MOMENT	1/846	1/781
STORY3	C4	2IPE270	MOMENT	2/047	1/529
STORY2	C4	2IPE270	MOMENT	1/920	1/529
STORY1	C4	2IPE270	MOMENT	1/493	1/460
STORY6	C5	2IPE140	MOMENT	1/990	1/674
STORY5	C5	2IPE240	MOMENT	1/675	2/588
STORY4	C5	2IPE270	MOMENT	1/846	3/201
STORY3	C5	2IPE270	MOMENT	1/793	3/338
STORY2	C5	2IPE270	MOMENT	1/687	3/338
STORY1	C5	2IPE270	MOMENT	1/493	1/963
STORY6	C6	2IPE140	MOMENT	1/848	1/500
STORY5	C6	2IPE270	MOMENT	1/403	2/043
STORY4	C6	2IPE270	MOMENT	1/442	2/405
STORY3	C6	2IPE270	MOMENT	1/382	2/405
STORY2	C6	2IPE270	MOMENT	1/380	2/509
STORY1	C6	2IPE300	MOMENT	1/377	1/815

Steel Column Design - Element Information Part 2 of 2

Story Level	Column Line	Section Name	Frame Type	K Major	K Minor
STORY5	C7	2IPE270	MOMENT	1/385	1/969
STORY4	C7	2IPE270	MOMENT	1/442	2/350
STORY3	C7	2IPE270	MOMENT	1/416	2/448
STORY2	C7	2IPE300	MOMENT	1/420	2/782
STORY1	C7	2IPE300	MOMENT	1/384	1/878
STORY5	C8	2IPE270	MOMENT	1/336	2/661
STORY4	C8	2IPE270	MOMENT	1/442	3/176
STORY3	C8	2IPE270	MOMENT	1/636	3/407
STORY2	C8	2IPE330	MOMENT	1/698	4/195
STORY1	C8	2IPE270	MOMENT	1/432	2/073
STORY6	C9	2IPE140	MOMENT	1/981	1/674
STORY5	C9	2IPE240	MOMENT	1/661	2/588
STORY4	C9	2IPE270	MOMENT	1/828	3/201
STORY3	C9	2IPE270	MOMENT	1/777	3/338
STORY2	C9	2IPE270	MOMENT	1/672	3/338
STORY1	C9	2IPE270	MOMENT	1/486	1/963
STORY6	C10	2IPE140	MOMENT	1/845	1/500
STORY5	C10	2IPE270	MOMENT	1/399	2/043
STORY4	C10	2IPE270	MOMENT	1/438	2/405
STORY3	C10	2IPE270	MOMENT	1/379	2/405
STORY2	C10	2IPE270	MOMENT	1/377	2/509
STORY1	C10	2IPE300	MOMENT	1/375	1/815
STORY5	C11	2IPE270	MOMENT	1/381	1/969
STORY4	C11	2IPE270	MOMENT	1/438	2/459
STORY3	C11	2IPE270	MOMENT	1/411	2/566
STORY2	C11	2IPE300	MOMENT	1/416	2/782
STORY1	C11	2IPE300	MOMENT	1/381	1/878
STORY5	C12	2IPE270	MOMENT	1/332	2/661
STORY4	C12	2IPE270	MOMENT	1/438	3/516
STORY3	C12	2IPE270	MOMENT	1/631	3/817
STORY2	C12	2IPE330	MOMENT	1/692	4/195
STORY1	C12	2IPE270	MOMENT	1/429	2/073
STORY5	C13	2IPE240	MOMENT	1/621	2/125
STORY4	C13	2IPE270	MOMENT	1/828	1/960
STORY3	C13	2IPE270	MOMENT	1/777	1/666
STORY2	C13	2IPE270	MOMENT	1/672	1/559
STORY1	C13	2IPE270	MOMENT	1/486	1/435
STORY5	C14	2IPE240	MOMENT	1/621	1/874
STORY4	C14	2IPE270	MOMENT	1/828	1/811
STORY3	C14	2IPE270	MOMENT	1/777	1/598
STORY2	C14	2IPE270	MOMENT	1/777	1/520
STORY1	C14	2IPE270	MOMENT	1/577	1/420
STORY5	C15	2IPE240	MOMENT	1/621	1/835
STORY4	C15	2IPE270	MOMENT	1/828	1/679
STORY3	C15	2IPE270	MOMENT	1/777	1/486
STORY2	C15	2IPE270	MOMENT	1/672	1/495
STORY1	C15	2IPE270	MOMENT	1/486	1/443
STORY5	C16	2IPE240	MOMENT	1/546	2/069

Steel Column Design - Element Information Part 2 of 2

Story Level	Column Line	Section Name	Frame Type	K Major	K Minor
STORY4	C16	2IPE270	MOMENT	1/828	1/781
STORY3	C16	2IPE270	MOMENT	2/027	1/529
STORY2	C16	2IPE270	MOMENT	1/902	1/529
STORY1	C16	2IPE270	MOMENT	1/486	1/460

Steel Beam Design - Element Information Part 1 of 2

Steel Beam Design - Element Information Part 1 of 2

Story Level	Beam Bay	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY5	B1	IPE160	MOMENT	1/000	0/379	0/931
STORY4	B1	IPE220-A	MOMENT	1/000	0/375	0/922
STORY3	B1	IPE240-A	MOMENT	1/000	0/375	0/922
STORY2	B1	IPE270-A	MOMENT	1/000	0/375	0/922
STORY1	B1	IPE270-A	MOMENT	1/000	0/375	0/922
STORY5	B2	IPE140-A	MOMENT	1/000	0/950	0/950
STORY4	B2	IPE180-A	MOMENT	1/000	0/944	0/944
STORY3	B2	IPE180-A	MOMENT	1/000	0/944	0/944
STORY2	B2	IPE180-A	MOMENT	1/000	0/944	0/944
STORY1	B2	IPE180-A	MOMENT	1/000	0/944	0/944
STORY5	B3	IPE180-A	MOMENT	1/000	0/392	0/938
STORY4	B3	IPE220-A	MOMENT	1/000	0/388	0/930
STORY3	B3	IPE270-A	MOMENT	1/000	0/388	0/930
STORY2	B3	IPE300-A	MOMENT	1/000	0/388	0/930
STORY1	B3	IPE270-A	MOMENT	1/000	0/388	0/930
STORY6	B4	IPE160	MOMENT	1/000	0/958	0/958
STORY5	B4	IPE160	MOMENT	1/000	0/927	0/927
STORY4	B4	IPE160	MOMENT	1/000	0/922	0/922
STORY3	B4	IPE160	MOMENT	1/000	0/922	0/922
STORY2	B4	IPE160	MOMENT	1/000	0/922	0/922
STORY1	B4	IPE160	MOMENT	1/000	0/918	0/918
STORY5	B5	IPE200-A	MOMENT	1/000	0/944	0/944
STORY4	B5	IPE180-A	MOMENT	1/000	0/944	0/944
STORY3	B5	IPE180-A	MOMENT	1/000	0/944	0/944
STORY2	B5	IPE180-A	MOMENT	1/000	0/941	0/941
STORY1	B5	IPE180-A	MOMENT	1/000	0/938	0/938
STORY5	B6	IPE180-A	MOMENT	1/000	0/930	0/930
STORY4	B6	IPE160	MOMENT	1/000	0/930	0/930
STORY3	B6	IPE180-A	MOMENT	1/000	0/930	0/930
STORY2	B6	IPE160	MOMENT	1/000	0/920	0/920
STORY1	B6	IPE160	MOMENT	1/000	0/927	0/927
STORY6	B7	IPE160	MOMENT	1/000	0/958	0/958
STORY5	B7	IPE160	MOMENT	1/000	0/927	0/927
STORY4	B7	IPE160	MOMENT	1/000	0/922	0/922
STORY3	B7	IPE160	MOMENT	1/000	0/922	0/922
STORY2	B7	IPE160	MOMENT	1/000	0/922	0/922
STORY1	B7	IPE160	MOMENT	1/000	0/918	0/918
STORY5	B8	IPE200-A	MOMENT	1/000	0/944	0/944

Steel Beam Design - Element Information Part 1 of 2

Story Level	Beam Bay	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY4	B8	IPE180-A	MOMENT	1/000	0/944	0/944
STORY3	B8	IPE180-A	MOMENT	1/000	0/944	0/944
STORY2	B8	IPE180-A	MOMENT	1/000	0/941	0/941
STORY1	B8	IPE180-A	MOMENT	1/000	0/938	0/938
STORY5	B9	IPE180-A	MOMENT	1/000	0/930	0/930
STORY4	B9	IPE160	MOMENT	1/000	0/930	0/930
STORY3	B9	IPE160	MOMENT	1/000	0/930	0/930
STORY2	B9	IPE160	MOMENT	1/000	0/920	0/920
STORY1	B9	IPE160	MOMENT	1/000	0/927	0/927
STORY5	B10	IPE160	MOMENT	1/000	0/379	0/931
STORY4	B10	IPE200-A	MOMENT	1/000	0/375	0/922
STORY3	B10	IPE240-A	MOMENT	1/000	0/375	0/922
STORY2	B10	IPE270-A	MOMENT	1/000	0/375	0/922
STORY1	B10	IPE270-A	MOMENT	1/000	0/375	0/922
STORY5	B11	IPE140-A	MOMENT	1/000	0/950	0/950
STORY4	B11	IPE160	MOMENT	1/000	0/944	0/944
STORY3	B11	IPE160	MOMENT	1/000	0/944	0/944
STORY2	B11	IPE160	MOMENT	1/000	0/944	0/944
STORY1	B11	IPE140-A	MOMENT	1/000	0/944	0/944
STORY5	B12	IPE160	MOMENT	1/000	0/392	0/938
STORY4	B12	IPE220-A	MOMENT	1/000	0/388	0/930
STORY3	B12	IPE270-A	MOMENT	1/000	0/388	0/930
STORY2	B12	IPE300-A	MOMENT	1/000	0/388	0/930
STORY1	B12	IPE270-A	MOMENT	1/000	0/388	0/930
STORY5	B13	IPE270-A	MOMENT	1/000	0/938	0/938
STORY4	B13	IPE300-A	MOMENT	1/000	0/931	0/931
STORY3	B13	IPE300-A	MOMENT	1/000	0/931	0/931
STORY2	B13	IPE330-A	MOMENT	1/000	0/931	0/931
STORY1	B13	IPE330-A	MOMENT	1/000	0/931	0/931
STORY6	B14	IPE100-A	MOMENT	1/000	0/952	0/952
STORY5	B15	IPE270-A	MOMENT	1/000	0/937	0/937
STORY4	B15	IPE300-A	MOMENT	1/000	0/929	0/929
STORY3	B15	IPE300-A	MOMENT	1/000	0/929	0/929
STORY2	B15	IPE330-A	MOMENT	1/000	0/929	0/929
STORY1	B15	IPE330-A	MOMENT	1/000	0/929	0/929
STORY5	B16	IPE270-A	MOMENT	1/000	0/935	0/935
STORY4	B16	IPE300-A	MOMENT	1/000	0/931	0/931
STORY3	B16	IPE300-A	MOMENT	1/000	0/931	0/931
STORY2	B16	IPE330-A	MOMENT	1/000	0/931	0/931
STORY1	B16	IPE300-A	MOMENT	1/000	0/927	0/927
STORY6	B17	IPE100-A	MOMENT	1/000	0/952	0/952
STORY5	B17	IPE270-A	MOMENT	1/000	0/907	0/907
STORY4	B17	IPE300-A	MOMENT	1/000	0/907	0/907
STORY3	B17	IPE300-A	MOMENT	1/000	0/907	0/907
STORY2	B17	IPE330-A	MOMENT	1/000	0/907	0/907
STORY1	B17	IPE330-A	MOMENT	1/000	0/897	0/897
STORY5	B18	IPE270-A	MOMENT	1/000	0/933	0/933
STORY4	B18	IPE300-A	MOMENT	1/000	0/929	0/929

Steel Beam Design - Element Information Part 1 of 2

Story Level	Beam Bay	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY3	B18	IPE300-A	MOMENT	1/000	0/929	0/929
STORY2	B18	IPE330-A	MOMENT	1/000	0/929	0/929
STORY1	B18	IPE300-A	MOMENT	1/000	0/925	0/925
STORY5	B19	IPE270-A	MOMENT	1/000	0/935	0/935
STORY4	B19	IPE300-A	MOMENT	1/000	0/931	0/931
STORY3	B19	IPE300-A	MOMENT	1/000	0/931	0/931
STORY2	B19	IPE330-A	MOMENT	1/000	0/927	0/927
STORY1	B19	IPE330-A	MOMENT	1/000	0/927	0/927
STORY5	B20	IPE270-A	MOMENT	1/000	0/907	0/907
STORY4	B20	IPE300-A	MOMENT	1/000	0/907	0/907
STORY3	B20	IPE300-A	MOMENT	1/000	0/907	0/907
STORY2	B20	IPE330-A	MOMENT	1/000	0/897	0/897
STORY1	B20	IPE330-A	MOMENT	1/000	0/897	0/897
STORY5	B21	IPE270-A	MOMENT	1/000	0/933	0/933
STORY4	B21	IPE300-A	MOMENT	1/000	0/929	0/929
STORY3	B21	IPE300-A	MOMENT	1/000	0/929	0/929
STORY2	B21	IPE330-A	MOMENT	1/000	0/925	0/925
STORY1	B21	IPE330-A	MOMENT	1/000	0/925	0/925
STORY5	B22	IPE300-A	MOMENT	1/000	0/935	0/935
STORY4	B22	IPE300-A	MOMENT	1/000	0/931	0/931
STORY3	B22	IPE300-A	MOMENT	1/000	0/931	0/931
STORY2	B22	IPE270-A	MOMENT	1/000	0/923	0/923
STORY1	B22	IPE330-A	MOMENT	1/000	0/931	0/931
STORY5	B23	IPE300-A	MOMENT	1/000	0/907	0/907
STORY4	B23	IPE300-A	MOMENT	1/000	0/907	0/907
STORY3	B23	IPE300-A	MOMENT	1/000	0/907	0/907
STORY2	B23	IPE270-A	MOMENT	1/000	0/886	0/886
STORY1	B23	IPE300-A	MOMENT	1/000	0/907	0/907
STORY5	B24	IPE300-A	MOMENT	1/000	0/933	0/933
STORY4	B24	IPE300-A	MOMENT	1/000	0/929	0/929
STORY3	B24	IPE300-A	MOMENT	1/000	0/929	0/929
STORY2	B24	IPE270-A	MOMENT	1/000	0/921	0/921
STORY1	B24	IPE330-A	MOMENT	1/000	0/929	0/929
STORY5	B29	IPE140-A	MOMENT	1/000	1/000	1/000
STORY4	B29	IPE140-A	MOMENT	1/000	1/000	1/000
STORY3	B29	IPE140-A	MOMENT	1/000	1/000	1/000
STORY2	B29	IPE140-A	MOMENT	1/000	1/000	1/000
STORY5	B30	IPE100-A	MOMENT	1/000	1/000	1/000
STORY4	B30	IPE100-A	MOMENT	1/000	1/000	1/000
STORY3	B30	IPE100-A	MOMENT	1/000	1/000	1/000
STORY2	B30	IPE100-A	MOMENT	1/000	1/000	1/000
STORY5	B31	IPE100-A	MOMENT	1/000	1/000	1/000
STORY4	B31	IPE100-A	MOMENT	1/000	1/000	1/000
STORY3	B31	IPE100-A	MOMENT	1/000	1/000	1/000
STORY2	B31	IPE100-A	MOMENT	1/000	1/000	1/000
STORY5	B32	IPE300-A	MOMENT	1/000	1/000	1/000
STORY4	B32	IPE300-A	MOMENT	1/000	1/000	1/000
STORY3	B32	IPE300-A	MOMENT	1/000	1/000	1/000

Steel Beam Design - Element Information Part 1 of 2

Story Level	Beam Bay	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY2	B32	IPE330-A	MOMENT	1/000	1/000	1/000
STORY1	B32	IPE330-A	MOMENT	1/000	1/000	1/000

Steel Beam Design - Element Information Part 2 of 2

Steel Beam Design - Element Information Part 2 of 2

Story Level	Beam Bay	Section Name	Frame Type	K Major	K Minor
STORY5	B1	IPE160	MOMENT	1/000	1/000
STORY4	B1	IPE220-A	MOMENT	1/000	1/000
STORY3	B1	IPE240-A	MOMENT	1/000	1/000
STORY2	B1	IPE270-A	MOMENT	1/000	1/000
STORY1	B1	IPE270-A	MOMENT	1/000	1/000
STORY5	B2	IPE140-A	MOMENT	1/000	1/000
STORY4	B2	IPE180-A	MOMENT	1/000	1/000
STORY3	B2	IPE180-A	MOMENT	1/000	1/000
STORY2	B2	IPE180-A	MOMENT	1/000	1/000
STORY1	B2	IPE180-A	MOMENT	1/000	1/000
STORY5	B3	IPE180-A	MOMENT	1/000	1/000
STORY4	B3	IPE220-A	MOMENT	1/000	1/000
STORY3	B3	IPE270-A	MOMENT	1/000	1/000
STORY2	B3	IPE300-A	MOMENT	1/000	1/000
STORY1	B3	IPE270-A	MOMENT	1/000	1/000
STORY6	B4	IPE160	MOMENT	1/000	1/000
STORY5	B4	IPE160	MOMENT	1/000	1/000
STORY4	B4	IPE160	MOMENT	1/000	1/000
STORY3	B4	IPE160	MOMENT	1/000	1/000
STORY2	B4	IPE160	MOMENT	1/000	1/000
STORY1	B4	IPE160	MOMENT	1/000	1/000
STORY5	B5	IPE200-A	MOMENT	1/000	1/000
STORY4	B5	IPE180-A	MOMENT	1/000	1/000
STORY3	B5	IPE180-A	MOMENT	1/000	1/000
STORY2	B5	IPE180-A	MOMENT	1/000	1/000
STORY1	B5	IPE180-A	MOMENT	1/000	1/000
STORY5	B6	IPE180-A	MOMENT	1/000	1/000
STORY4	B6	IPE160	MOMENT	1/000	1/000
STORY3	B6	IPE180-A	MOMENT	1/000	1/000
STORY2	B6	IPE160	MOMENT	1/000	1/000
STORY1	B6	IPE160	MOMENT	1/000	1/000
STORY6	B7	IPE160	MOMENT	1/000	1/000
STORY5	B7	IPE160	MOMENT	1/000	1/000
STORY4	B7	IPE160	MOMENT	1/000	1/000
STORY3	B7	IPE160	MOMENT	1/000	1/000
STORY2	B7	IPE160	MOMENT	1/000	1/000
STORY1	B7	IPE160	MOMENT	1/000	1/000
STORY5	B8	IPE200-A	MOMENT	1/000	1/000
STORY4	B8	IPE180-A	MOMENT	1/000	1/000
STORY3	B8	IPE180-A	MOMENT	1/000	1/000

Steel Beam Design - Element Information Part 2 of 2

Story Level	Beam Bay	Section Name	Frame Type	K Major	K Minor
STORY2	B8	IPE180-A	MOMENT	1/000	1/000
STORY1	B8	IPE180-A	MOMENT	1/000	1/000
STORY5	B9	IPE180-A	MOMENT	1/000	1/000
STORY4	B9	IPE160	MOMENT	1/000	1/000
STORY3	B9	IPE160	MOMENT	1/000	1/000
STORY2	B9	IPE160	MOMENT	1/000	1/000
STORY1	B9	IPE160	MOMENT	1/000	1/000
STORY5	B10	IPE160	MOMENT	1/000	1/000
STORY4	B10	IPE200-A	MOMENT	1/000	1/000
STORY3	B10	IPE240-A	MOMENT	1/000	1/000
STORY2	B10	IPE270-A	MOMENT	1/000	1/000
STORY1	B10	IPE270-A	MOMENT	1/000	1/000
STORY5	B11	IPE140-A	MOMENT	1/000	1/000
STORY4	B11	IPE160	MOMENT	1/000	1/000
STORY3	B11	IPE160	MOMENT	1/000	1/000
STORY2	B11	IPE160	MOMENT	1/000	1/000
STORY1	B11	IPE140-A	MOMENT	1/000	1/000
STORY5	B12	IPE160	MOMENT	1/000	1/000
STORY4	B12	IPE220-A	MOMENT	1/000	1/000
STORY3	B12	IPE270-A	MOMENT	1/000	1/000
STORY2	B12	IPE300-A	MOMENT	1/000	1/000
STORY1	B12	IPE270-A	MOMENT	1/000	1/000
STORY5	B13	IPE270-A	MOMENT	1/000	1/000
STORY4	B13	IPE300-A	MOMENT	1/000	1/000
STORY3	B13	IPE300-A	MOMENT	1/000	1/000
STORY2	B13	IPE330-A	MOMENT	1/000	1/000
STORY1	B13	IPE330-A	MOMENT	1/000	1/000
STORY6	B14	IPE100-A	MOMENT	1/000	1/000
STORY5	B15	IPE270-A	MOMENT	1/000	1/000
STORY4	B15	IPE300-A	MOMENT	1/000	1/000
STORY3	B15	IPE300-A	MOMENT	1/000	1/000
STORY2	B15	IPE330-A	MOMENT	1/000	1/000
STORY1	B15	IPE330-A	MOMENT	1/000	1/000
STORY5	B16	IPE270-A	MOMENT	1/000	1/000
STORY4	B16	IPE300-A	MOMENT	1/000	1/000
STORY3	B16	IPE300-A	MOMENT	1/000	1/000
STORY2	B16	IPE330-A	MOMENT	1/000	1/000
STORY1	B16	IPE300-A	MOMENT	1/000	1/000
STORY6	B17	IPE100-A	MOMENT	1/000	1/000
STORY5	B17	IPE270-A	MOMENT	1/000	1/000
STORY4	B17	IPE300-A	MOMENT	1/000	1/000
STORY3	B17	IPE300-A	MOMENT	1/000	1/000
STORY2	B17	IPE330-A	MOMENT	1/000	1/000
STORY1	B17	IPE330-A	MOMENT	1/000	1/000
STORY5	B18	IPE270-A	MOMENT	1/000	1/000
STORY4	B18	IPE300-A	MOMENT	1/000	1/000
STORY3	B18	IPE300-A	MOMENT	1/000	1/000
STORY2	B18	IPE330-A	MOMENT	1/000	1/000

Steel Beam Design - Element Information Part 2 of 2

Story Level	Beam Bay	Section Name	Frame Type	K Major	K Minor
STORY1	B18	IPE300-A	MOMENT	1/000	1/000
STORY5	B19	IPE270-A	MOMENT	1/000	1/000
STORY4	B19	IPE300-A	MOMENT	1/000	1/000
STORY3	B19	IPE300-A	MOMENT	1/000	1/000
STORY2	B19	IPE330-A	MOMENT	1/000	1/000
STORY1	B19	IPE330-A	MOMENT	1/000	1/000
STORY5	B20	IPE270-A	MOMENT	1/000	1/000
STORY4	B20	IPE300-A	MOMENT	1/000	1/000
STORY3	B20	IPE300-A	MOMENT	1/000	1/000
STORY2	B20	IPE330-A	MOMENT	1/000	1/000
STORY1	B20	IPE330-A	MOMENT	1/000	1/000
STORY5	B21	IPE270-A	MOMENT	1/000	1/000
STORY4	B21	IPE300-A	MOMENT	1/000	1/000
STORY3	B21	IPE300-A	MOMENT	1/000	1/000
STORY2	B21	IPE330-A	MOMENT	1/000	1/000
STORY1	B21	IPE330-A	MOMENT	1/000	1/000
STORY5	B22	IPE300-A	MOMENT	1/000	1/000
STORY4	B22	IPE300-A	MOMENT	1/000	1/000
STORY3	B22	IPE300-A	MOMENT	1/000	1/000
STORY2	B22	IPE270-A	MOMENT	1/000	1/000
STORY1	B22	IPE330-A	MOMENT	1/000	1/000
STORY5	B23	IPE300-A	MOMENT	1/000	1/000
STORY4	B23	IPE300-A	MOMENT	1/000	1/000
STORY3	B23	IPE300-A	MOMENT	1/000	1/000
STORY2	B23	IPE270-A	MOMENT	1/000	1/000
STORY1	B23	IPE300-A	MOMENT	1/000	1/000
STORY5	B24	IPE300-A	MOMENT	1/000	1/000
STORY4	B24	IPE300-A	MOMENT	1/000	1/000
STORY3	B24	IPE300-A	MOMENT	1/000	1/000
STORY2	B24	IPE270-A	MOMENT	1/000	1/000
STORY1	B24	IPE330-A	MOMENT	1/000	1/000
STORY5	B29	IPE140-A	MOMENT	1/000	1/000
STORY4	B29	IPE140-A	MOMENT	1/000	1/000
STORY3	B29	IPE140-A	MOMENT	1/000	1/000
STORY2	B29	IPE140-A	MOMENT	1/000	1/000
STORY5	B30	IPE100-A	MOMENT	1/000	1/000
STORY4	B30	IPE100-A	MOMENT	1/000	1/000
STORY3	B30	IPE100-A	MOMENT	1/000	1/000
STORY2	B30	IPE100-A	MOMENT	1/000	1/000
STORY5	B31	IPE100-A	MOMENT	1/000	1/000
STORY4	B31	IPE100-A	MOMENT	1/000	1/000
STORY3	B31	IPE100-A	MOMENT	1/000	1/000
STORY2	B31	IPE100-A	MOMENT	1/000	1/000
STORY5	B32	IPE300-A	MOMENT	1/000	1/000
STORY4	B32	IPE300-A	MOMENT	1/000	1/000
STORY3	B32	IPE300-A	MOMENT	1/000	1/000
STORY2	B32	IPE330-A	MOMENT	1/000	1/000
STORY1	B32	IPE330-A	MOMENT	1/000	1/000

Steel Brace Design - Element Information Part 1 of 2

Steel Brace Design - Element Information Part 1 of 2

Story Level	Brace Bay	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY5	D11	2UNP80	MOMENT	1/000	1/000	1/000
STORY4	D11	2UNO100	MOMENT	1/000	1/000	1/000
STORY3	D11	2UNO100	MOMENT	1/000	1/000	1/000
STORY2	D11	2UNP120	MOMENT	1/000	1/000	1/000
STORY1	D11	2UNP120	MOMENT	1/000	1/000	1/000
STORY5	D12	2UNP80	MOMENT	1/000	1/000	1/000
STORY4	D12	2UNP80	MOMENT	1/000	1/000	1/000
STORY3	D12	2UNO100	MOMENT	1/000	1/000	1/000
STORY2	D12	2UNO100	MOMENT	1/000	1/000	1/000
STORY1	D12	2UNP120	MOMENT	1/000	1/000	1/000
STORY5	D13	2UNP80	MOMENT	1/000	1/000	1/000
STORY4	D13	2UNP80	MOMENT	1/000	1/000	1/000
STORY3	D13	2UNO100	MOMENT	1/000	1/000	1/000
STORY2	D13	2UNP120	MOMENT	1/000	1/000	1/000
STORY1	D13	2UNP120	MOMENT	1/000	1/000	1/000
STORY5	D14	2UNP80	MOMENT	1/000	1/000	1/000
STORY4	D14	2UNO100	MOMENT	1/000	1/000	1/000
STORY3	D14	2UNP120	MOMENT	1/000	1/000	1/000
STORY2	D14	2UNP120	MOMENT	1/000	1/000	1/000
STORY1	D14	2UNP120	MOMENT	1/000	1/000	1/000
STORY5	D17	2UNP80	MOMENT	1/000	1/000	1/000
STORY4	D17	2UNP80	MOMENT	1/000	1/000	1/000
STORY3	D17	2UNO100	MOMENT	1/000	1/000	1/000
STORY2	D17	2UNO100	MOMENT	1/000	1/000	1/000
STORY1	D17	2UNP120	MOMENT	1/000	1/000	1/000
STORY5	D18	2UNP80	MOMENT	1/000	1/000	1/000
STORY4	D18	2UNO100	MOMENT	1/000	1/000	1/000
STORY3	D18	2UNO100	MOMENT	1/000	1/000	1/000
STORY2	D18	2UNP120	MOMENT	1/000	1/000	1/000
STORY1	D18	2UNP120	MOMENT	1/000	1/000	1/000
STORY5	D19	2UNP80	MOMENT	1/000	1/000	1/000
STORY4	D19	2UNO100	MOMENT	1/000	1/000	1/000
STORY3	D19	2UNP120	MOMENT	1/000	1/000	1/000
STORY2	D19	2UNP120	MOMENT	1/000	1/000	1/000
STORY1	D19	2UNP120	MOMENT	1/000	1/000	1/000
STORY5	D20	2UNP80	MOMENT	1/000	1/000	1/000
STORY4	D20	2UNP80	MOMENT	1/000	1/000	1/000
STORY3	D20	2UNO100	MOMENT	1/000	1/000	1/000
STORY2	D20	2UNP120	MOMENT	1/000	1/000	1/000
STORY1	D20	2UNP120	MOMENT	1/000	1/000	1/000

Steel Brace Design - Element Information Part 2 of 2

Steel Brace Design - Element Information Part 2 of 2

Story Level	Brace Bay	Section Name	Frame Type	K Major	K Minor
STORY5	D11	2UNP80	MOMENT	1/000	1/000
STORY4	D11	2UNO100	MOMENT	1/000	1/000
STORY3	D11	2UNO100	MOMENT	1/000	1/000
STORY2	D11	2UNP120	MOMENT	1/000	1/000
STORY1	D11	2UNP120	MOMENT	1/000	1/000
STORY5	D12	2UNP80	MOMENT	1/000	1/000
STORY4	D12	2UNP80	MOMENT	1/000	1/000
STORY3	D12	2UNO100	MOMENT	1/000	1/000
STORY2	D12	2UNO100	MOMENT	1/000	1/000
STORY1	D12	2UNP120	MOMENT	1/000	1/000
STORY5	D13	2UNP80	MOMENT	1/000	1/000
STORY4	D13	2UNP80	MOMENT	1/000	1/000
STORY3	D13	2UNO100	MOMENT	1/000	1/000
STORY2	D13	2UNP120	MOMENT	1/000	1/000
STORY1	D13	2UNP120	MOMENT	1/000	1/000
STORY5	D14	2UNP80	MOMENT	1/000	1/000
STORY4	D14	2UNO100	MOMENT	1/000	1/000
STORY3	D14	2UNP120	MOMENT	1/000	1/000
STORY2	D14	2UNP120	MOMENT	1/000	1/000
STORY1	D14	2UNP120	MOMENT	1/000	1/000
STORY5	D17	2UNP80	MOMENT	1/000	1/000
STORY4	D17	2UNP80	MOMENT	1/000	1/000
STORY3	D17	2UNO100	MOMENT	1/000	1/000
STORY2	D17	2UNO100	MOMENT	1/000	1/000
STORY1	D17	2UNP120	MOMENT	1/000	1/000
STORY5	D18	2UNP80	MOMENT	1/000	1/000
STORY4	D18	2UNO100	MOMENT	1/000	1/000
STORY3	D18	2UNO100	MOMENT	1/000	1/000
STORY2	D18	2UNP120	MOMENT	1/000	1/000
STORY1	D18	2UNP120	MOMENT	1/000	1/000
STORY5	D19	2UNP80	MOMENT	1/000	1/000
STORY4	D19	2UNO100	MOMENT	1/000	1/000
STORY3	D19	2UNP120	MOMENT	1/000	1/000
STORY2	D19	2UNP120	MOMENT	1/000	1/000
STORY1	D19	2UNP120	MOMENT	1/000	1/000
STORY5	D20	2UNP80	MOMENT	1/000	1/000
STORY4	D20	2UNP80	MOMENT	1/000	1/000
STORY3	D20	2UNO100	MOMENT	1/000	1/000
STORY2	D20	2UNP120	MOMENT	1/000	1/000
STORY1	D20	2UNP120	MOMENT	1/000	1/000

Steel Column Design - Capacity Check Output

Steel Column Design - Capacity Check Output

Steel Column Design - Capacity Check Output

Story Level	Column Line	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY5	C1	2IPE240	0/214 = 0/016 + 0/153 + 0/045	0/032	0/009
STORY4	C1	2IPE270	0/273 = 0/046 + 0/210 + 0/016	0/053	0/003
STORY3	C1	2IPE270	0/383 = 0/086 + 0/290 + 0/007	0/073	0/002
STORY2	C1	2IPE270	0/573 = 0/257 + 0/292 + 0/023	0/081	0/002
STORY1	C1	2IPE270	0/752 = 0/360 + 0/372 + 0/020	0/089	0/012
STORY5	C2	2IPE240	0/353 = 0/038 + 0/257 + 0/058	0/054	0/009
STORY4	C2	2IPE270	0/387 = 0/075 + 0/232 + 0/080	0/061	0/012
STORY3	C2	2IPE270	0/633 = 0/241 + 0/291 + 0/100	0/083	0/012
STORY2	C2	2IPE270	0/716 = 0/328 + 0/271 + 0/117	0/078	0/013
STORY1	C2	2IPE270	0/853 = 0/413 + 0/395 + 0/045	0/083	0/018
STORY5	C3	2IPE240	0/331 = 0/038 + 0/253 + 0/040	0/053	0/008
STORY4	C3	2IPE270	0/379 = 0/077 + 0/238 + 0/064	0/061	0/011
STORY3	C3	2IPE270	0/618 = 0/252 + 0/300 + 0/066	0/085	0/012
STORY2	C3	2IPE270	0/798 = 0/374 + 0/316 + 0/107	0/087	0/012
STORY1	C3	2IPE270	0/939 = 0/497 + 0/434 + 0/009	0/096	0/016
STORY5	C4	2IPE240	0/261 = 0/018 + 0/182 + 0/060	0/038	0/010
STORY4	C4	2IPE270	0/304 = 0/050 + 0/225 + 0/028	0/057	0/005
STORY3	C4	2IPE270	0/327 = 0/085 + 0/230 + 0/013	0/065	0/003
STORY2	C4	2IPE270	0/483 = 0/247 + 0/230 + 0/007	0/061	0/003
STORY1	C4	2IPE270	0/783 = 0/575 + 0/030 + 0/178	0/099	0/010
STORY6	C5	2IPE140	0/702 = 0/039 + 0/003 + 0/660	0/001	0/035
STORY5	C5	2IPE240	0/326 = 0/028 + 0/127 + 0/170	0/067	0/019
STORY4	C5	2IPE270	0/351 = 0/071 + 0/280 + 0/000	0/105	0/015
STORY3	C5	2IPE270	0/545 = 0/218 + 0/229 + 0/099	0/142	0/014
STORY2	C5	2IPE270	0/674 = 0/292 + 0/270 + 0/112	0/173	0/015
STORY1	C5	2IPE270	0/871 = 0/368 + 0/463 + 0/039	0/175	0/017
STORY6	C6	2IPE140	0/727 = 0/035 + 0/003 + 0/689	0/003	0/035
STORY5	C6	2IPE270	0/383 = 0/059 + 0/221 + 0/104	0/057	0/018
STORY4	C6	2IPE270	0/551 = 0/239 + 0/271 + 0/042	0/085	0/011
STORY3	C6	2IPE270	0/813 = 0/342 + 0/427 + 0/043	0/121	0/012
STORY2	C6	2IPE270	0/930 = 0/531 + 0/357 + 0/042	0/121	0/009
STORY1	C6	2IPE300	0/915 = 0/440 + 0/460 + 0/015	0/124	0/018
STORY5	C7	2IPE270	0/315 = 0/051 + 0/229 + 0/035	0/059	0/013
STORY4	C7	2IPE270	0/530 = 0/224 + 0/286 + 0/021	0/088	0/010
STORY3	C7	2IPE270	0/784 = 0/340 + 0/421 + 0/023	0/121	0/010
STORY2	C7	2IPE300	0/855 = 0/460 + 0/380 + 0/015	0/134	0/006
STORY1	C7	2IPE300	0/934 = 0/452 + 0/480 + 0/003	0/126	0/016
STORY5	C8	2IPE270	0/498 = 0/039 + 0/247 + 0/212	0/063	0/025
STORY4	C8	2IPE270	0/662 = 0/225 + 0/312 + 0/124	0/095	0/016
STORY3	C8	2IPE270	0/817 = 0/394 + 0/327 + 0/096	0/097	0/015
STORY2	C8	2IPE330	0/930 = 0/445 + 0/375 + 0/109	0/111	0/017
STORY1	C8	2IPE270	0/866 = 0/367 + 0/472 + 0/027	0/109	0/016
STORY6	C9	2IPE140	0/699 = 0/039 + 0/002 + 0/658	0/002	0/034
STORY5	C9	2IPE240	0/319 = 0/028 + 0/126 + 0/165	0/068	0/018
STORY4	C9	2IPE270	0/349 = 0/070 + 0/279 + 0/000	0/106	0/014
STORY3	C9	2IPE270	0/542 = 0/213 + 0/233 + 0/097	0/143	0/014
STORY2	C9	2IPE270	0/669 = 0/285 + 0/274 + 0/109	0/174	0/014
STORY1	C9	2IPE270	0/860 = 0/358 + 0/463 + 0/039	0/175	0/017
STORY6	C10	2IPE140	0/728 = 0/035 + 0/003 + 0/689	0/003	0/034
STORY5	C10	2IPE270	0/381 = 0/058 + 0/215 + 0/108	0/055	0/019

Steel Column Design - Capacity Check Output

Steel Column Design - Capacity Check Output

Story Level	Column Line	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY4	C10	2IPE270	0/549 = 0/236 + 0/269 + 0/044	0/084	0/011
STORY3	C10	2IPE270	0/811 = 0/380 + 0/381 + 0/050	0/121	0/013
STORY2	C10	2IPE270	0/924 = 0/519 + 0/361 + 0/044	0/121	0/009
STORY1	C10	2IPE300	0/906 = 0/430 + 0/461 + 0/016	0/124	0/018
STORY5	C11	2IPE270	0/316 = 0/050 + 0/225 + 0/041	0/058	0/014
STORY4	C11	2IPE270	0/538 = 0/229 + 0/284 + 0/025	0/088	0/009
STORY3	C11	2IPE270	0/797 = 0/351 + 0/420 + 0/026	0/121	0/009
STORY2	C11	2IPE300	0/851 = 0/449 + 0/384 + 0/018	0/134	0/006
STORY1	C11	2IPE300	0/924 = 0/440 + 0/481 + 0/003	0/127	0/016
STORY5	C12	2IPE270	0/490 = 0/038 + 0/246 + 0/206	0/063	0/025
STORY4	C12	2IPE270	0/700 = 0/262 + 0/316 + 0/122	0/096	0/015
STORY3	C12	2IPE270	0/904 = 0/480 + 0/329 + 0/096	0/098	0/014
STORY2	C12	2IPE330	0/917 = 0/434 + 0/377 + 0/106	0/112	0/016
STORY1	C12	2IPE270	0/854 = 0/356 + 0/472 + 0/026	0/109	0/016
STORY5	C13	2IPE240	0/212 = 0/017 + 0/153 + 0/043	0/033	0/009
STORY4	C13	2IPE270	0/272 = 0/046 + 0/210 + 0/015	0/053	0/003
STORY3	C13	2IPE270	0/380 = 0/081 + 0/292 + 0/007	0/073	0/002
STORY2	C13	2IPE270	0/571 = 0/246 + 0/294 + 0/031	0/082	0/003
STORY1	C13	2IPE270	0/729 = 0/341 + 0/372 + 0/016	0/090	0/012
STORY5	C14	2IPE240	0/330 = 0/038 + 0/252 + 0/040	0/053	0/007
STORY4	C14	2IPE270	0/370 = 0/074 + 0/235 + 0/061	0/061	0/009
STORY3	C14	2IPE270	0/612 = 0/230 + 0/292 + 0/091	0/083	0/010
STORY2	C14	2IPE270	0/640 = 0/313 + 0/271 + 0/056	0/079	0/007
STORY1	C14	2IPE270	0/782 = 0/372 + 0/394 + 0/016	0/083	0/012
STORY5	C15	2IPE240	0/311 = 0/037 + 0/247 + 0/027	0/052	0/007
STORY4	C15	2IPE270	0/361 = 0/074 + 0/239 + 0/049	0/061	0/008
STORY3	C15	2IPE270	0/600 = 0/240 + 0/300 + 0/059	0/085	0/009
STORY2	C15	2IPE270	0/728 = 0/360 + 0/317 + 0/051	0/087	0/006
STORY1	C15	2IPE270	0/907 = 0/455 + 0/434 + 0/018	0/096	0/011
STORY5	C16	2IPE240	0/261 = 0/019 + 0/180 + 0/062	0/037	0/011
STORY4	C16	2IPE270	0/299 = 0/048 + 0/227 + 0/024	0/058	0/004
STORY3	C16	2IPE270	0/324 = 0/080 + 0/230 + 0/013	0/066	0/003
STORY2	C16	2IPE270	0/483 = 0/234 + 0/232 + 0/017	0/062	0/003
STORY1	C16	2IPE270	0/740 = 0/257 + 0/447 + 0/036	0/100	0/010

Steel Beam Design - Capacity Check Output

Steel Beam Design - Capacity Check Output

Story Level	Beam Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY5	B1	IPE160	0/826 = 0/000 + 0/826 + 0/000	0/709	0/000
STORY4	B1	IPE220-A	0/729 = 0/000 + 0/729 + 0/000	0/859	0/000
STORY3	B1	IPE240-A	0/673 = 0/000 + 0/673 + 0/000	0/892	0/000
STORY2	B1	IPE270-A	0/647 = 0/000 + 0/647 + 0/000	0/874	0/000
STORY1	B1	IPE270-A	0/645 = 0/000 + 0/645 + 0/000	0/877	0/000
STORY5	B2	IPE140-A	0/733 = 0/000 + 0/733 + 0/000	0/210	0/000
STORY4	B2	IPE180-A	0/770 = 0/000 + 0/770 + 0/000	0/286	0/000
STORY3	B2	IPE180-A	0/776 = 0/000 + 0/776 + 0/000	0/286	0/000
STORY2	B2	IPE180-A	0/751 = 0/000 + 0/751 + 0/000	0/286	0/000
STORY1	B2	IPE180-A	0/735 = 0/000 + 0/735 + 0/000	0/286	0/000

Steel Beam Design - Capacity Check Output

Story Level	Beam Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY5	B3	IPE180-A	0/740 = 0/000 + 0/740 + 0/000	0/691	0/000
STORY4	B3	IPE220-A	0/753 = 0/000 + 0/753 + 0/000	0/870	0/000
STORY3	B3	IPE270-A	0/660 = 0/000 + 0/660 + 0/000	0/910	0/000
STORY2	B3	IPE300-A	0/592 = 0/000 + 0/592 + 0/000	0/891	0/000
STORY1	B3	IPE270-A	0/682 = 0/000 + 0/682 + 0/000	0/929	0/000
STORY6	B4	IPE160	0/775 = 0/000 + 0/775 + 0/000	0/297	0/000
STORY5	B4	IPE160	0/769 = 0/000 + 0/769 + 0/000	0/392	0/000
STORY4	B4	IPE160	0/750 = 0/000 + 0/750 + 0/000	0/381	0/000
STORY3	B4	IPE160	0/744 = 0/000 + 0/744 + 0/000	0/378	0/000
STORY2	B4	IPE160	0/720 = 0/000 + 0/720 + 0/000	0/379	0/000
STORY1	B4	IPE160	0/722 = 0/000 + 0/722 + 0/000	0/380	0/000
STORY5	B5	IPE200-A	0/703 = 0/000 + 0/703 + 0/000	0/296	0/000
STORY4	B5	IPE180-A	0/917 = 0/000 + 0/917 + 0/000	0/338	0/000
STORY3	B5	IPE180-A	0/921 = 0/000 + 0/921 + 0/000	0/339	0/000
STORY2	B5	IPE180-A	0/915 = 0/000 + 0/915 + 0/000	0/337	0/000
STORY1	B5	IPE180-A	0/909 = 0/000 + 0/909 + 0/000	0/336	0/000
STORY5	B6	IPE180-A	0/734 = 0/000 + 0/734 + 0/000	0/373	0/000
STORY4	B6	IPE160	0/912 = 0/000 + 0/912 + 0/000	0/427	0/000
STORY3	B6	IPE180-A	0/722 = 0/000 + 0/722 + 0/000	0/362	0/000
STORY2	B6	IPE160	0/893 = 0/000 + 0/893 + 0/000	0/424	0/000
STORY1	B6	IPE160	0/908 = 0/000 + 0/908 + 0/000	0/427	0/000
STORY6	B7	IPE160	0/775 = 0/000 + 0/775 + 0/000	0/297	0/000
STORY5	B7	IPE160	0/753 = 0/000 + 0/753 + 0/000	0/382	0/000
STORY4	B7	IPE160	0/739 = 0/000 + 0/739 + 0/000	0/371	0/000
STORY3	B7	IPE160	0/731 = 0/000 + 0/731 + 0/000	0/368	0/000
STORY2	B7	IPE160	0/707 = 0/000 + 0/707 + 0/000	0/370	0/000
STORY1	B7	IPE160	0/708 = 0/000 + 0/708 + 0/000	0/371	0/000
STORY5	B8	IPE200-A	0/705 = 0/000 + 0/705 + 0/000	0/296	0/000
STORY4	B8	IPE180-A	0/918 = 0/000 + 0/918 + 0/000	0/338	0/000
STORY3	B8	IPE180-A	0/922 = 0/000 + 0/922 + 0/000	0/339	0/000
STORY2	B8	IPE180-A	0/915 = 0/000 + 0/915 + 0/000	0/337	0/000
STORY1	B8	IPE180-A	0/910 = 0/000 + 0/910 + 0/000	0/336	0/000
STORY5	B9	IPE180-A	0/718 = 0/000 + 0/718 + 0/000	0/364	0/000
STORY4	B9	IPE160	0/889 = 0/000 + 0/889 + 0/000	0/416	0/000
STORY3	B9	IPE160	0/902 = 0/000 + 0/902 + 0/000	0/419	0/000
STORY2	B9	IPE160	0/871 = 0/000 + 0/871 + 0/000	0/413	0/000
STORY1	B9	IPE160	0/886 = 0/000 + 0/886 + 0/000	0/416	0/000
STORY5	B10	IPE160	0/840 = 0/000 + 0/840 + 0/000	0/720	0/000
STORY4	B10	IPE200-A	0/835 = 0/000 + 0/835 + 0/000	0/883	0/000
STORY3	B10	IPE240-A	0/654 = 0/000 + 0/654 + 0/000	0/866	0/000
STORY2	B10	IPE270-A	0/623 = 0/000 + 0/623 + 0/000	0/844	0/000
STORY1	B10	IPE270-A	0/617 = 0/000 + 0/617 + 0/000	0/837	0/000
STORY5	B11	IPE140-A	0/606 = 0/000 + 0/606 + 0/000	0/169	0/000
STORY4	B11	IPE160	0/806 = 0/000 + 0/806 + 0/000	0/273	0/000
STORY3	B11	IPE160	0/803 = 0/000 + 0/803 + 0/000	0/273	0/000
STORY2	B11	IPE160	0/778 = 0/000 + 0/778 + 0/000	0/273	0/000
STORY1	B11	IPE140-A	0/177 = 0/000 + 0/177 + 0/000	0/020	0/000
STORY5	B12	IPE160	0/861 = 0/000 + 0/861 + 0/000	0/708	0/000
STORY4	B12	IPE220-A	0/755 = 0/000 + 0/755 + 0/000	0/871	0/000
STORY3	B12	IPE270-A	0/640 = 0/000 + 0/640 + 0/000	0/883	0/000
STORY2	B12	IPE300-A	0/571 = 0/000 + 0/571 + 0/000	0/861	0/000
STORY1	B12	IPE270-A	0/651 = 0/000 + 0/651 + 0/000	0/888	0/000

Steel Beam Design - Capacity Check Output

Story Level	Beam Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY5	B13	IPE270-A	0/216 = 0/000 + 0/216 + 0/000	0/078	0/000
STORY4	B13	IPE300-A	0/414 = 0/000 + 0/414 + 0/000	0/149	0/000
STORY3	B13	IPE300-A	0/587 = 0/000 + 0/587 + 0/000	0/194	0/000
STORY2	B13	IPE330-A	0/625 = 0/000 + 0/625 + 0/000	0/214	0/000
STORY1	B13	IPE330-A	0/604 = 0/000 + 0/604 + 0/000	0/206	0/000
STORY6	B14	IPE100-A	0/048 = 0/000 + 0/048 + 0/000	0/007	0/000
STORY5	B15	IPE270-A	0/215 = 0/000 + 0/215 + 0/000	0/079	0/000
STORY4	B15	IPE300-A	0/415 = 0/000 + 0/415 + 0/000	0/152	0/000
STORY3	B15	IPE300-A	0/592 = 0/000 + 0/592 + 0/000	0/198	0/000
STORY2	B15	IPE330-A	0/629 = 0/000 + 0/629 + 0/000	0/219	0/000
STORY1	B15	IPE330-A	0/609 = 0/000 + 0/609 + 0/000	0/211	0/000
STORY5	B16	IPE270-A	0/355 = 0/000 + 0/355 + 0/000	0/248	0/000
STORY4	B16	IPE300-A	0/499 = 0/000 + 0/499 + 0/000	0/239	0/000
STORY3	B16	IPE300-A	0/645 = 0/000 + 0/645 + 0/000	0/277	0/000
STORY2	B16	IPE330-A	0/622 = 0/000 + 0/622 + 0/000	0/270	0/000
STORY1	B16	IPE300-A	0/637 = 0/000 + 0/637 + 0/000	0/278	0/000
STORY6	B17	IPE100-A	0/048 = 0/000 + 0/048 + 0/000	0/007	0/000
STORY5	B17	IPE270-A	0/284 = 0/000 + 0/284 + 0/000	0/160	0/000
STORY4	B17	IPE300-A	0/389 = 0/000 + 0/389 + 0/000	0/202	0/000
STORY3	B17	IPE300-A	0/543 = 0/000 + 0/543 + 0/000	0/258	0/000
STORY2	B17	IPE330-A	0/515 = 0/000 + 0/515 + 0/000	0/258	0/000
STORY1	B17	IPE330-A	0/559 = 0/000 + 0/559 + 0/000	0/277	0/000
STORY5	B18	IPE270-A	0/340 = 0/000 + 0/340 + 0/000	0/240	0/000
STORY4	B18	IPE300-A	0/496 = 0/000 + 0/496 + 0/000	0/239	0/000
STORY3	B18	IPE300-A	0/645 = 0/000 + 0/645 + 0/000	0/278	0/000
STORY2	B18	IPE330-A	0/623 = 0/000 + 0/623 + 0/000	0/273	0/000
STORY1	B18	IPE300-A	0/637 = 0/000 + 0/637 + 0/000	0/278	0/000
STORY5	B19	IPE270-A	0/363 = 0/000 + 0/363 + 0/000	0/250	0/000
STORY4	B19	IPE300-A	0/497 = 0/000 + 0/497 + 0/000	0/238	0/000
STORY3	B19	IPE300-A	0/655 = 0/000 + 0/655 + 0/000	0/279	0/000
STORY2	B19	IPE330-A	0/649 = 0/000 + 0/649 + 0/000	0/282	0/000
STORY1	B19	IPE330-A	0/611 = 0/000 + 0/611 + 0/000	0/279	0/000
STORY5	B20	IPE270-A	0/302 = 0/000 + 0/302 + 0/000	0/169	0/000
STORY4	B20	IPE300-A	0/411 = 0/000 + 0/411 + 0/000	0/213	0/000
STORY3	B20	IPE300-A	0/570 = 0/000 + 0/570 + 0/000	0/270	0/000
STORY2	B20	IPE330-A	0/592 = 0/000 + 0/592 + 0/000	0/295	0/000
STORY1	B20	IPE330-A	0/595 = 0/000 + 0/595 + 0/000	0/295	0/000
STORY5	B21	IPE270-A	0/349 = 0/000 + 0/349 + 0/000	0/243	0/000
STORY4	B21	IPE300-A	0/493 = 0/000 + 0/493 + 0/000	0/238	0/000
STORY3	B21	IPE300-A	0/654 = 0/000 + 0/654 + 0/000	0/280	0/000
STORY2	B21	IPE330-A	0/650 = 0/000 + 0/650 + 0/000	0/283	0/000
STORY1	B21	IPE330-A	0/612 = 0/000 + 0/612 + 0/000	0/280	0/000
STORY5	B22	IPE300-A	0/209 = 0/000 + 0/209 + 0/000	0/081	0/000
STORY4	B22	IPE300-A	0/443 = 0/000 + 0/443 + 0/000	0/161	0/000
STORY3	B22	IPE300-A	0/589 = 0/000 + 0/589 + 0/000	0/198	0/000
STORY2	B22	IPE270-A	0/700 = 0/000 + 0/700 + 0/000	0/228	0/000
STORY1	B22	IPE330-A	0/549 = 0/000 + 0/549 + 0/000	0/162	0/000
STORY5	B23	IPE300-A	0/238 = 0/000 + 0/238 + 0/000	0/173	0/000
STORY4	B23	IPE300-A	0/467 = 0/000 + 0/467 + 0/000	0/269	0/000
STORY3	B23	IPE300-A	0/588 = 0/000 + 0/588 + 0/000	0/315	0/000
STORY2	B23	IPE270-A	0/818 = 0/000 + 0/818 + 0/000	0/398	0/000
STORY1	B23	IPE300-A	0/617 = 0/000 + 0/617 + 0/000	0/296	0/000

Steel Beam Design - Capacity Check Output

Story Level	Beam Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY5	B24	IPE300-A	0/209 = 0/000 + 0/209 + 0/000	0/082	0/000
STORY4	B24	IPE300-A	0/443 = 0/000 + 0/443 + 0/000	0/163	0/000
STORY3	B24	IPE300-A	0/593 = 0/000 + 0/593 + 0/000	0/202	0/000
STORY2	B24	IPE270-A	0/705 = 0/000 + 0/705 + 0/000	0/233	0/000
STORY1	B24	IPE330-A	0/555 = 0/000 + 0/555 + 0/000	0/169	0/000
STORY5	B29	IPE140-A	0/012 = 0/000 + 0/012 + 0/000	0/003	0/000
STORY4	B29	IPE140-A	0/012 = 0/000 + 0/012 + 0/000	0/003	0/000
STORY3	B29	IPE140-A	0/012 = 0/000 + 0/012 + 0/000	0/003	0/000
STORY2	B29	IPE140-A	0/012 = 0/000 + 0/012 + 0/000	0/003	0/000
STORY5	B30	IPE100-A	0/027 = 0/000 + 0/017 + 0/009	0/006	0/001
STORY4	B30	IPE100-A	0/025 = 0/000 + 0/020 + 0/005	0/006	0/001
STORY3	B30	IPE100-A	0/024 = 0/000 + 0/020 + 0/004	0/006	0/000
STORY2	B30	IPE100-A	0/023 = 0/000 + 0/023 + 0/000	0/006	0/000
STORY5	B31	IPE100-A	0/027 = 0/000 + 0/017 + 0/009	0/006	0/001
STORY4	B31	IPE100-A	0/025 = 0/000 + 0/020 + 0/005	0/006	0/001
STORY3	B31	IPE100-A	0/024 = 0/000 + 0/020 + 0/004	0/006	0/000
STORY2	B31	IPE100-A	0/023 = 0/000 + 0/023 + 0/000	0/006	0/000
STORY5	B32	IPE300-A	0/391 = 0/000 + 0/390 + 0/000	0/201	0/000
STORY4	B32	IPE300-A	0/654 = 0/000 + 0/653 + 0/000	0/288	0/000
STORY3	B32	IPE300-A	0/815 = 0/000 + 0/815 + 0/000	0/343	0/000
STORY2	B32	IPE330-A	0/797 = 0/000 + 0/796 + 0/000	0/357	0/000
STORY1	B32	IPE330-A	0/633 = 0/003 + 0/630 + 0/000	0/305	0/000

Steel Brace Design - Capacity Check Output

Steel Brace Design - Capacity Check Output

Story Level	Brace Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY5	D11	2UNP80	0/664 = 0/488 + 0/176 + 0/000	0/008	0/000
STORY4	D11	2UNO100	0/772 = 0/583 + 0/189 + 0/000	0/011	0/000
STORY3	D11	2UNO100	0/854 = 0/679 + 0/175 + 0/000	0/010	0/001
STORY2	D11	2UNP120	0/729 = 0/567 + 0/161 + 0/000	0/010	0/002
STORY1	D11	2UNP120	0/733 = 0/551 + 0/182 + 0/000	0/016	0/003
STORY5	D12	2UNP80	0/453 = 0/334 + 0/119 + 0/000	0/010	0/000
STORY4	D12	2UNP80	0/815 = 0/704 + 0/111 + 0/000	0/009	0/000
STORY3	D12	2UNO100	0/712 = 0/571 + 0/140 + 0/000	0/013	0/001
STORY2	D12	2UNO100	0/813 = 0/700 + 0/112 + 0/000	0/011	0/001
STORY1	D12	2UNP120	0/738 = 0/560 + 0/178 + 0/000	0/016	0/003
STORY5	D13	2UNP80	0/556 = 0/439 + 0/118 + 0/000	0/009	0/000
STORY4	D13	2UNP80	0/898 = 0/778 + 0/120 + 0/000	0/009	0/000
STORY3	D13	2UNO100	0/867 = 0/733 + 0/134 + 0/000	0/012	0/001
STORY2	D13	2UNP120	0/778 = 0/648 + 0/131 + 0/000	0/012	0/002
STORY1	D13	2UNP120	0/797 = 0/611 + 0/186 + 0/000	0/016	0/003
STORY5	D14	2UNP80	0/751 = 0/591 + 0/160 + 0/000	0/007	0/000
STORY4	D14	2UNO100	0/811 = 0/618 + 0/193 + 0/000	0/011	0/000
STORY3	D14	2UNP120	0/792 = 0/603 + 0/190 + 0/000	0/012	0/001
STORY2	D14	2UNP120	0/846 = 0/697 + 0/149 + 0/000	0/009	0/002
STORY1	D14	2UNP120	0/801 = 0/608 + 0/193 + 0/000	0/016	0/003
STORY5	D17	2UNP80	0/488 = 0/359 + 0/130 + 0/000	0/010	0/000
STORY4	D17	2UNP80	0/779 = 0/645 + 0/135 + 0/000	0/010	0/000
STORY3	D17	2UNO100	0/704 = 0/562 + 0/141 + 0/000	0/013	0/001
STORY2	D17	2UNO100	0/807 = 0/684 + 0/123 + 0/000	0/010	0/001

Steel Brace Design - Capacity Check Output

Story Level	Brace Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY1	D17	2UNP120	0/702 = 0/529 + 0/173 + 0/000	0/015	0/003
STORY5	D18	2UNP80	0/669 = 0/490 + 0/179 + 0/000	0/008	0/000
STORY4	D18	2UNO100	0/731 = 0/520 + 0/211 + 0/000	0/012	0/000
STORY3	D18	2UNO100	0/827 = 0/654 + 0/172 + 0/000	0/010	0/001
STORY2	D18	2UNP120	0/701 = 0/545 + 0/156 + 0/000	0/010	0/002
STORY1	D18	2UNP120	0/694 = 0/513 + 0/181 + 0/000	0/015	0/003
STORY5	D19	2UNP80	0/695 = 0/515 + 0/179 + 0/000	0/008	0/000
STORY4	D19	2UNO100	0/809 = 0/612 + 0/197 + 0/000	0/011	0/000
STORY3	D19	2UNP120	0/767 = 0/581 + 0/186 + 0/000	0/011	0/001
STORY2	D19	2UNP120	0/814 = 0/671 + 0/142 + 0/000	0/009	0/002
STORY1	D19	2UNP120	0/757 = 0/564 + 0/193 + 0/000	0/015	0/003
STORY5	D20	2UNP80	0/535 = 0/394 + 0/141 + 0/000	0/010	0/000
STORY4	D20	2UNP80	0/925 = 0/795 + 0/130 + 0/000	0/009	0/000
STORY3	D20	2UNO100	0/853 = 0/719 + 0/135 + 0/000	0/011	0/001
STORY2	D20	2UNP120	0/770 = 0/631 + 0/139 + 0/000	0/010	0/002
STORY1	D20	2UNP120	0/754 = 0/575 + 0/180 + 0/000	0/016	0/003

DISPLACEMENTS AT DIAPHRAGM CENTER OF MASS

STORY	DIAPHRAGM	LOAD	POINT	X	Y	UX	UY	RZ
STORY6	D1	DL	154	5/350	1/735	-0/0002	0/0010	0/00001
STORY6	D1	LL	154	5/350	1/735	0/0000	0/0004	0/00000
STORY6	D1	EX2	154	5/350	1/735	0/0409	0/0000	0/00000
STORY6	D1	EY1	154	5/350	1/735	0/0012	0/0245	0/00032
STORY5	D1	DL	155	5/238	6/338	-0/0002	-0/0002	0/00000
STORY5	D1	LL	155	5/238	6/338	0/0000	-0/0001	0/00000
STORY5	D1	EX2	155	5/238	6/338	0/0394	0/0000	-0/00007
STORY5	D1	EY1	155	5/238	6/338	-0/0002	0/0230	0/00029
STORY4	D1	DL	156	5/193	6/310	-0/0001	-0/0001	0/00000
STORY4	D1	LL	156	5/193	6/310	0/0000	0/0000	0/00000
STORY4	D1	EX2	156	5/193	6/310	0/0345	0/0000	-0/00008
STORY4	D1	EY1	156	5/193	6/310	-0/0002	0/0182	0/00023
STORY3	D1	DL	157	5/193	6/310	-0/0001	-0/0001	0/00000
STORY3	D1	LL	157	5/193	6/310	0/0000	0/0000	0/00000
STORY3	D1	EX2	157	5/193	6/310	0/0266	0/0000	-0/00006
STORY3	D1	EY1	157	5/193	6/310	-0/0001	0/0129	0/00015
STORY2	D1	DL	158	5/194	6/309	0/0000	0/0000	0/00000
STORY2	D1	LL	158	5/194	6/309	0/0000	0/0000	0/00000
STORY2	D1	EX2	158	5/194	6/309	0/0166	0/0000	-0/00002
STORY2	D1	EY1	158	5/194	6/309	-0/0001	0/0078	0/00009
STORY1	D1	DL	159	4/682	5/831	0/0000	0/0000	0/00000
STORY1	D1	LL	159	4/682	5/831	0/0000	0/0000	0/00000
STORY1	D1	EX2	159	4/682	5/831	0/0068	0/0000	-0/00001
STORY1	D1	EY1	159	4/682	5/831	0/0000	0/0033	0/00004

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STORY DRIFTS

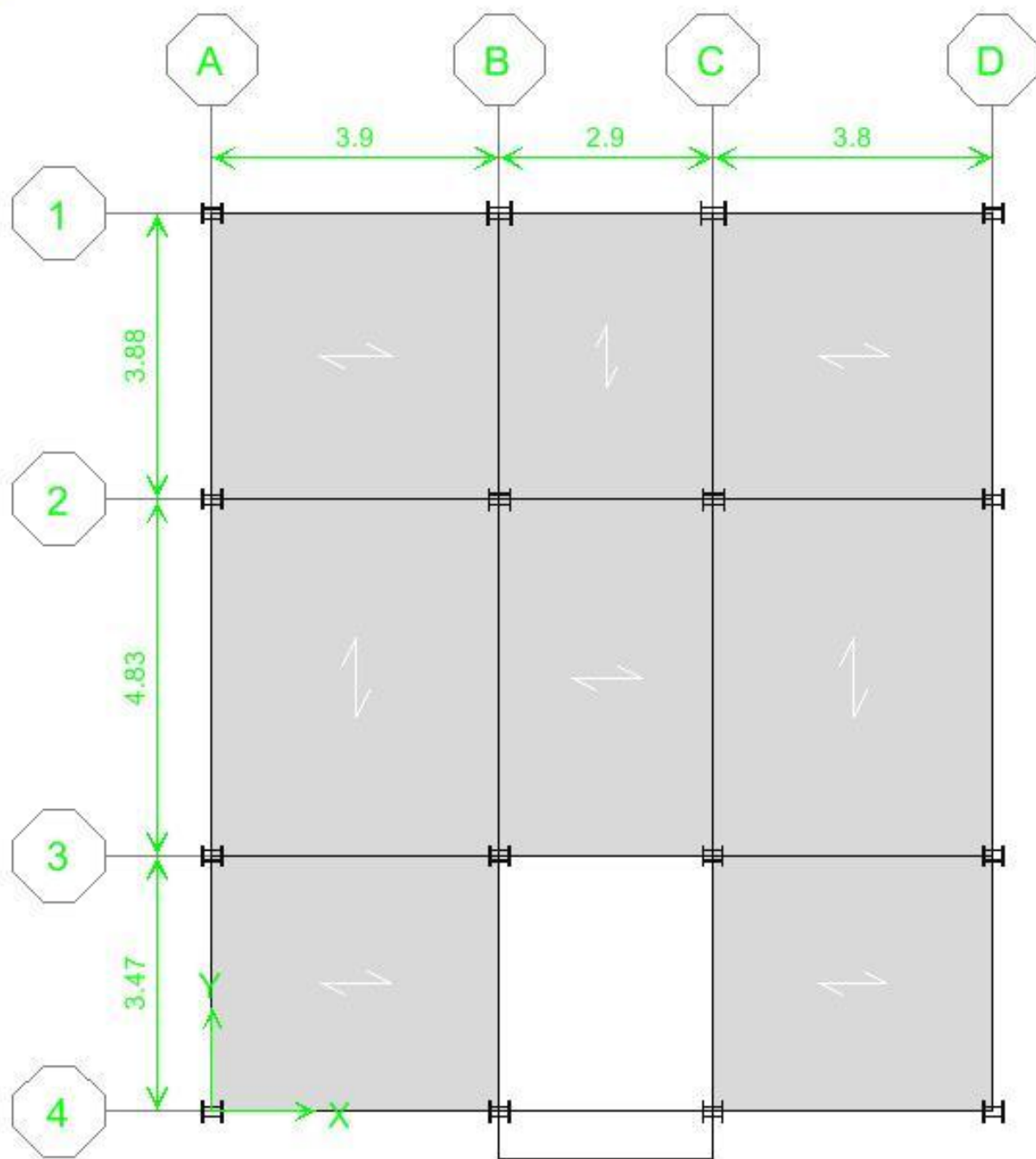
STORY	DIRECTION	LOAD	POINT	X	Y	Z	MAX DRIFT
STORY6	Y	DL	10	6/800	3/470	18/500	0/000452
STORY6	Y	LL	10	6/800	3/470	18/500	0/000197
STORY6	X	EX2	9	6/800	0/000	18/500	0/000765
STORY6	Y	EY1	10	6/800	3/470	18/500	0/000604
STORY5	Y	DL	5-1	3/900	0/000	14/400	0/000054
STORY5	Y	LL	5-1	3/900	0/000	14/400	0/000036
STORY5	X	EX2	32-1	6/800	-0/650	14/400	0/002008
STORY5	Y	EY1	32-1	6/800	-0/650	14/400	0/001672
STORY4	X	DL	13	10/600	0/000	12/800	0/000016
STORY4	Y	DL	9-1	6/800	0/000	11/200	0/000014
STORY4	Y	LL	39	10/600	9/940	12/800	0/000005
STORY4	X	EX2	5-1	3/900	0/000	11/200	0/002827
STORY4	Y	EY1	39	10/600	9/940	12/800	0/001792

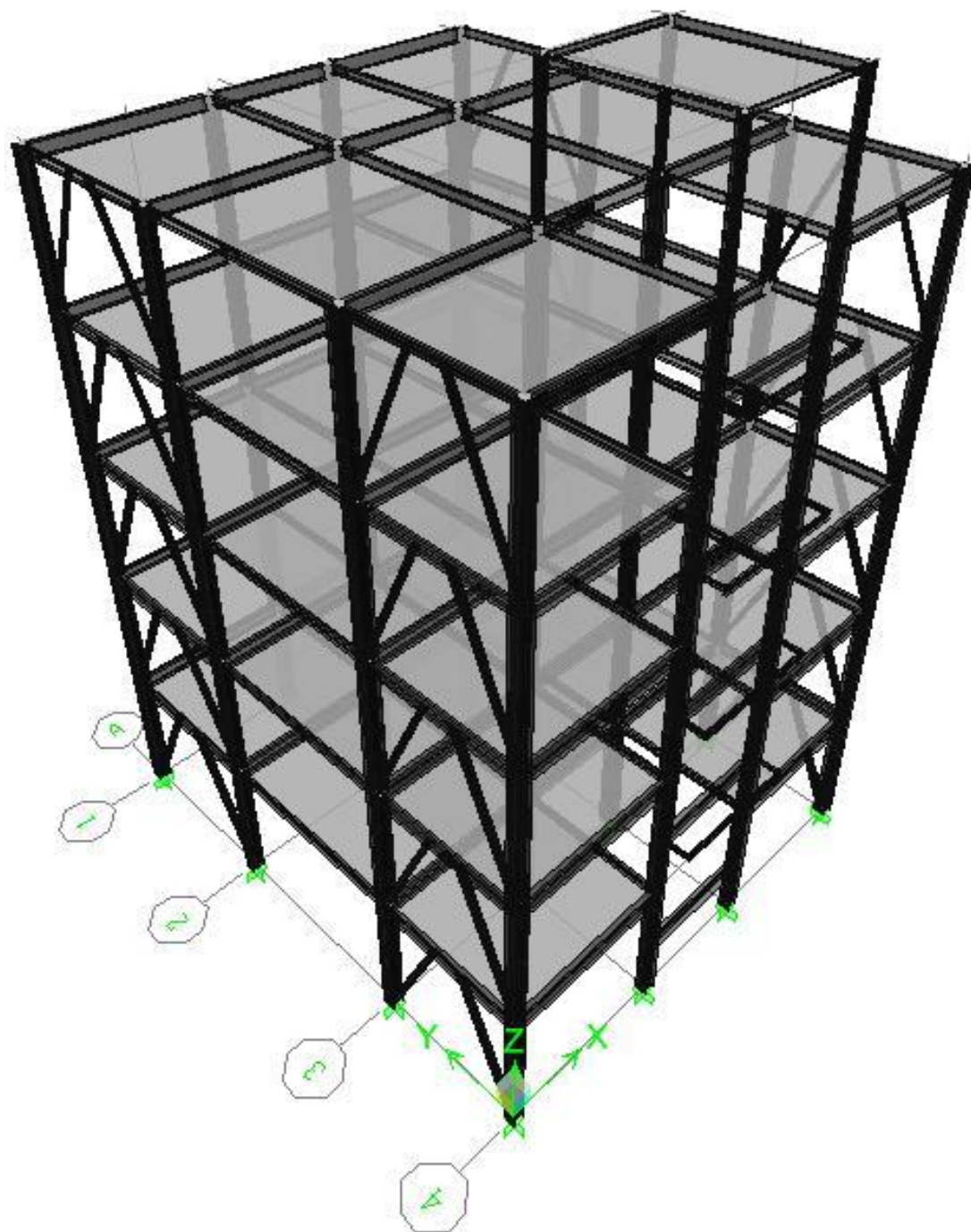
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STORY3	Y	LL	5-1	3/900	0/000	8/000	0/000009
STORY3	X	EX2	16	10/600	12/180	9/600	0/003199
STORY3	Y	EY1	39	10/600	9/940	9/600	0/001687
STORY2	Y	DL	5-1	3/900	0/000	4/800	0/000059
STORY2	Y	LL	5-1	3/900	0/000	4/800	0/000018
STORY2	X	EX2	16	10/600	12/180	6/400	0/003074
STORY2	Y	EY1	39	10/600	9/940	6/400	0/001487
STORY1	X	DL	16	10/600	12/180	3/200	0/000004
STORY1	Y	DL	16	10/600	12/180	3/200	0/000003
STORY1	Y	LL	4	0/000	12/180	3/200	0/000001
STORY1	X	EX2	16	10/600	12/180	3/200	0/002142
STORY1	Y	EY1	16	10/600	12/180	3/200	0/001106

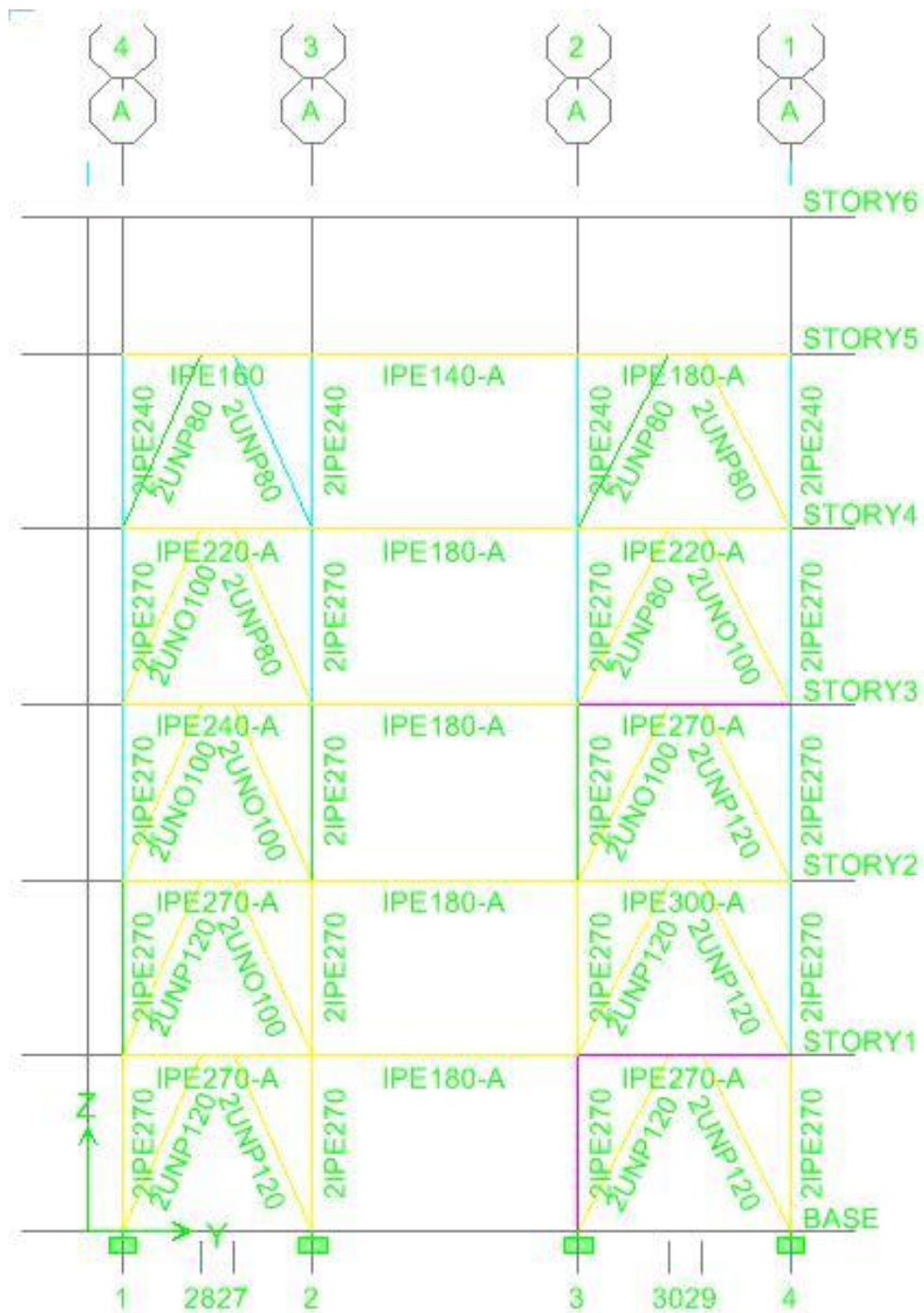
DIAPHRAGM DRIFTS

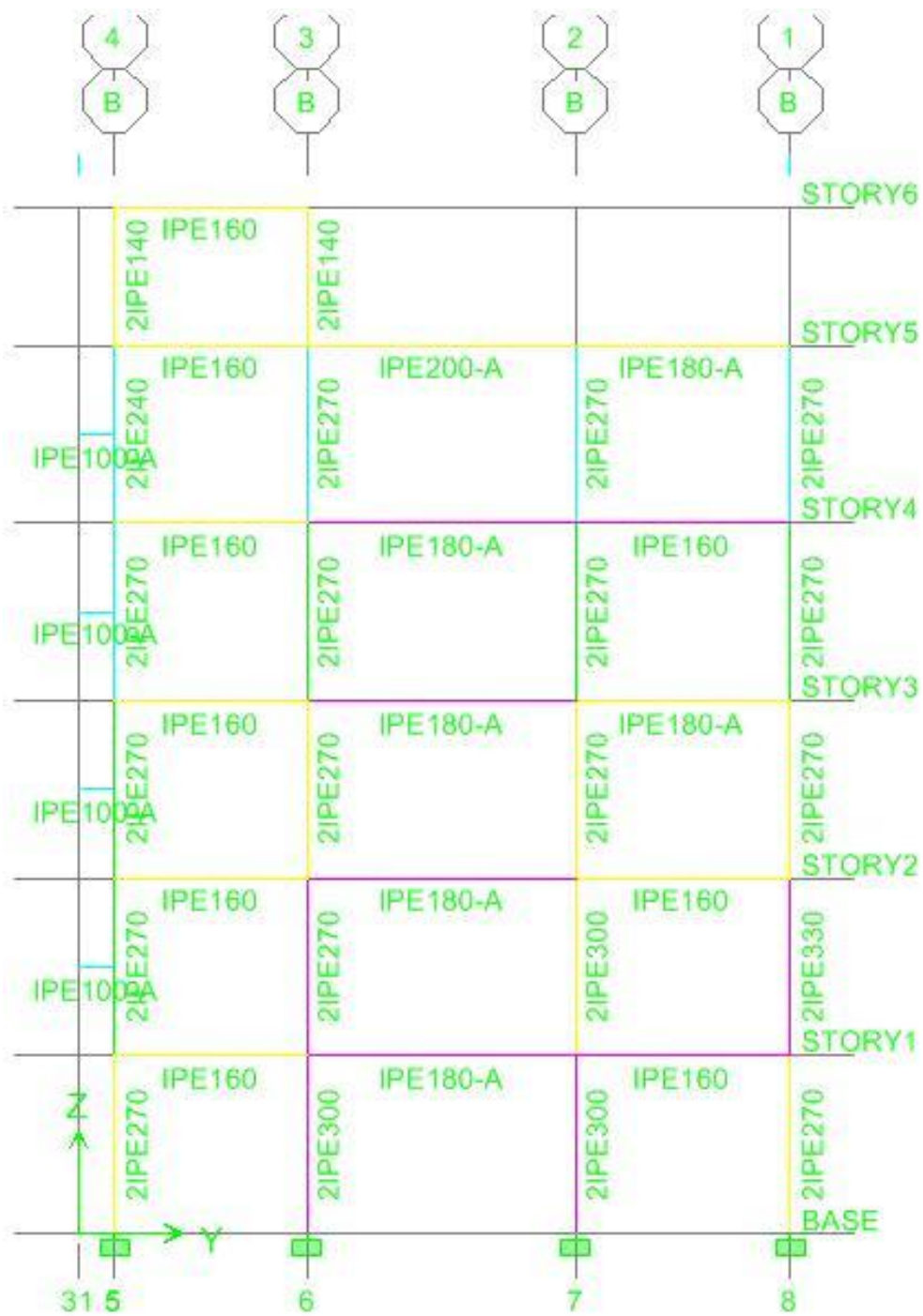
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STORY6	D1	X	DL	10	6/800	3/470	18/500	0/000020
STORY6	D1	Y	DL	10	6/800	3/470	18/500	0/000452
STORY6	D1	X	LL	10	6/800	3/470	18/500	0/000004
STORY6	D1	Y	LL	10	6/800	3/470	18/500	0/000197
STORY6	D1	X	EX2	9	6/800	0/000	18/500	0/000765
STORY6	D1	Y	EX2	10	6/800	3/470	18/500	0/000043
STORY6	D1	X	EY1	9	6/800	0/000	18/500	0/000058
STORY6	D1	Y	EY1	10	6/800	3/470	18/500	0/000604
STORY5	D1	X	DL	16	10/600	12/180	16/000	0/000021
STORY5	D1	Y	DL	30	0/000	9/940	16/000	0/000021
STORY5	D1	X	LL	16	10/600	12/180	16/000	0/000002
STORY5	D1	Y	LL	30	0/000	9/940	16/000	0/000009
STORY5	D1	X	EX2	13	10/600	0/000	16/000	0/001567
STORY5	D1	Y	EX2	34	10/600	1/435	16/000	0/000008
STORY5	D1	X	EY1	16	10/600	12/180	16/000	0/000131
STORY5	D1	Y	EY1	39	10/600	9/940	16/000	0/001615
STORY4	D1	X	DL	13	10/600	0/000	12/800	0/000016
STORY4	D1	Y	DL	39	10/600	9/940	12/800	0/000010
STORY4	D1	X	LL	13	10/600	0/000	12/800	0/000002
STORY4	D1	Y	LL	39	10/600	9/940	12/800	0/000005
STORY4	D1	X	EX2	16	10/600	12/180	12/800	0/002491
STORY4	D1	Y	EX2	34	10/600	1/435	12/800	0/000020
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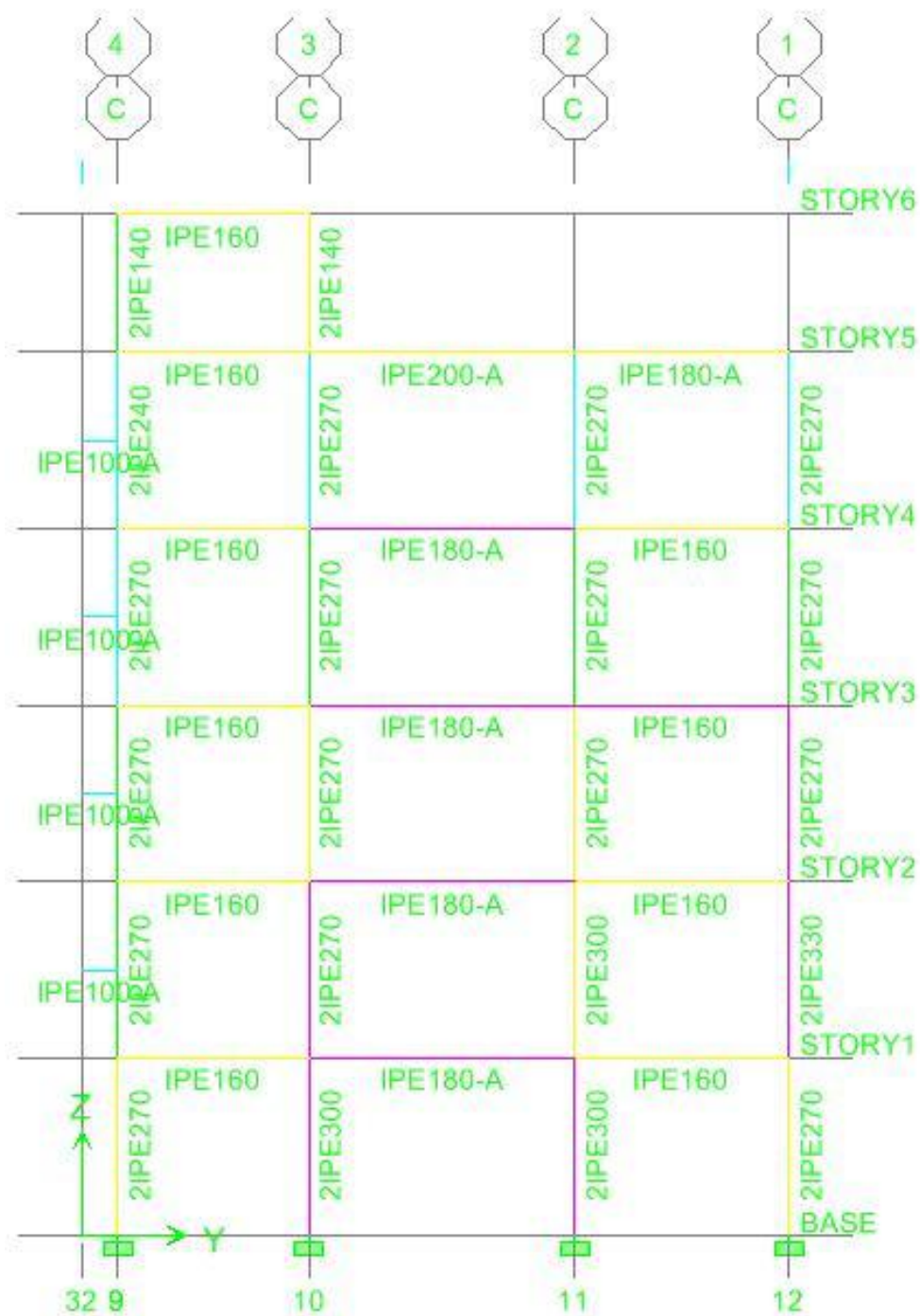
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STORY3	D1	Y	DL	30	0/000	9/940	9/600	0/000017
STORY3	D1	X	LL	13	10/600	0/000	9/600	0/000001
STORY3	D1	Y	LL	39	10/600	9/940	9/600	0/000005
STORY3	D1	X	EX2	16	10/600	12/180	9/600	0/003199
STORY3	D1	Y	EX2	39	10/600	9/940	9/600	0/000074
STORY3	D1	X	EY1	16	10/600	12/180	9/600	0/000131
STORY3	D1	Y	EY1	39	10/600	9/940	9/600	0/001687
STORY2	D1	X	DL	16	10/600	12/180	6/400	0/000010
STORY2	D1	Y	DL	30	0/000	9/940	6/400	0/000010
STORY2	D1	X	LL	13	10/600	0/000	6/400	0/000001
STORY2	D1	Y	LL	39	10/600	9/940	6/400	0/000003
STORY2	D1	X	EX2	16	10/600	12/180	6/400	0/003074
STORY2	D1	Y	EX2	39	10/600	9/940	6/400	0/000014
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STORY2	D1	Y	EY1	39	10/600	9/940	6/400	0/001487
STORY1	D1	X	DL	16	10/600	12/180	3/200	0/000004
STORY1	D1	Y	DL	16	10/600	12/180	3/200	0/000003
STORY1	D1	X	LL	13	10/600	0/000	3/200	0/000000
STORY1	D1	Y	LL	4	0/000	12/180	3/200	0/000001
STORY1	D1	X	EX2	16	10/600	12/180	3/200	0/002142
STORY1	D1	Y	EX2	1	0/000	0/000	3/200	0/000017
STORY1	D1	X	EY1	16	10/600	12/180	3/200	0/000081
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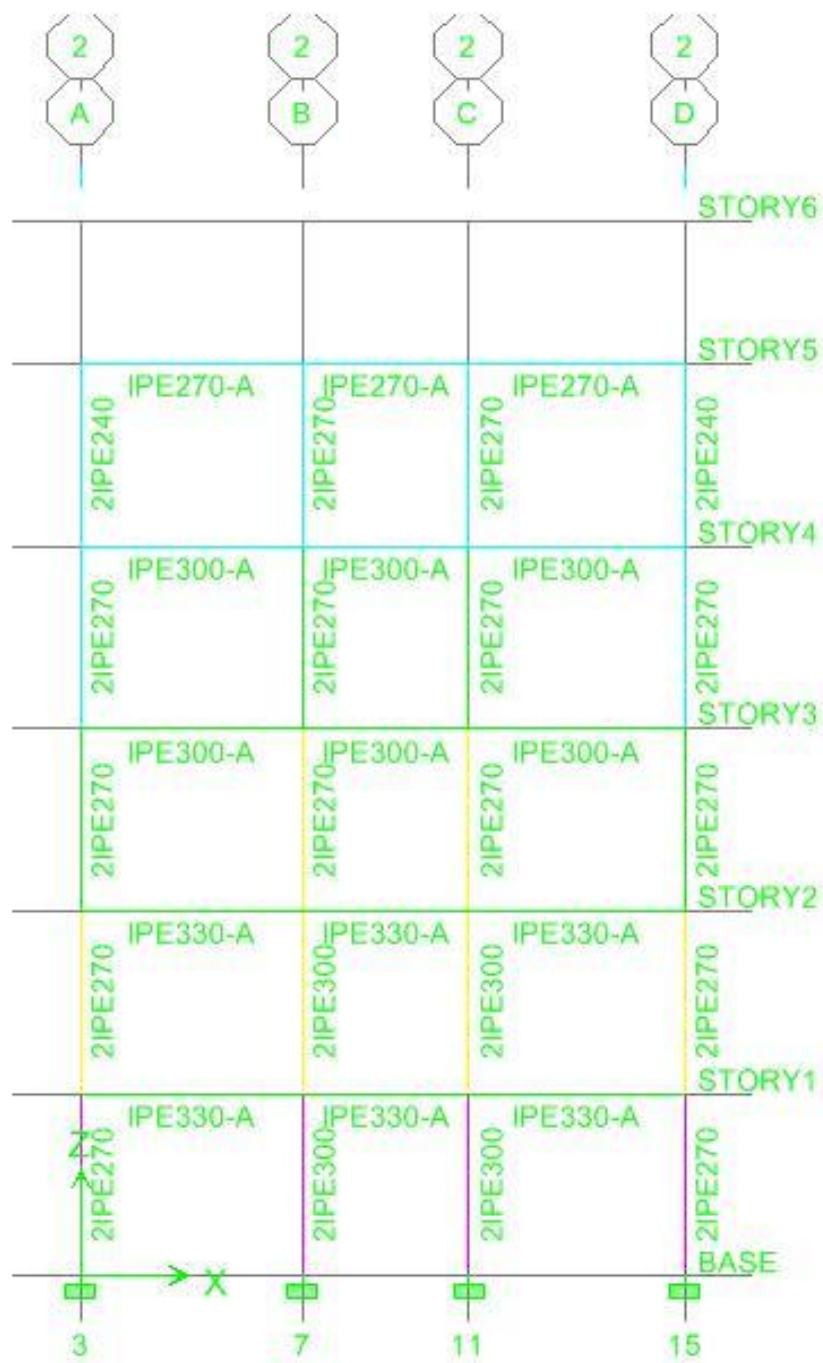


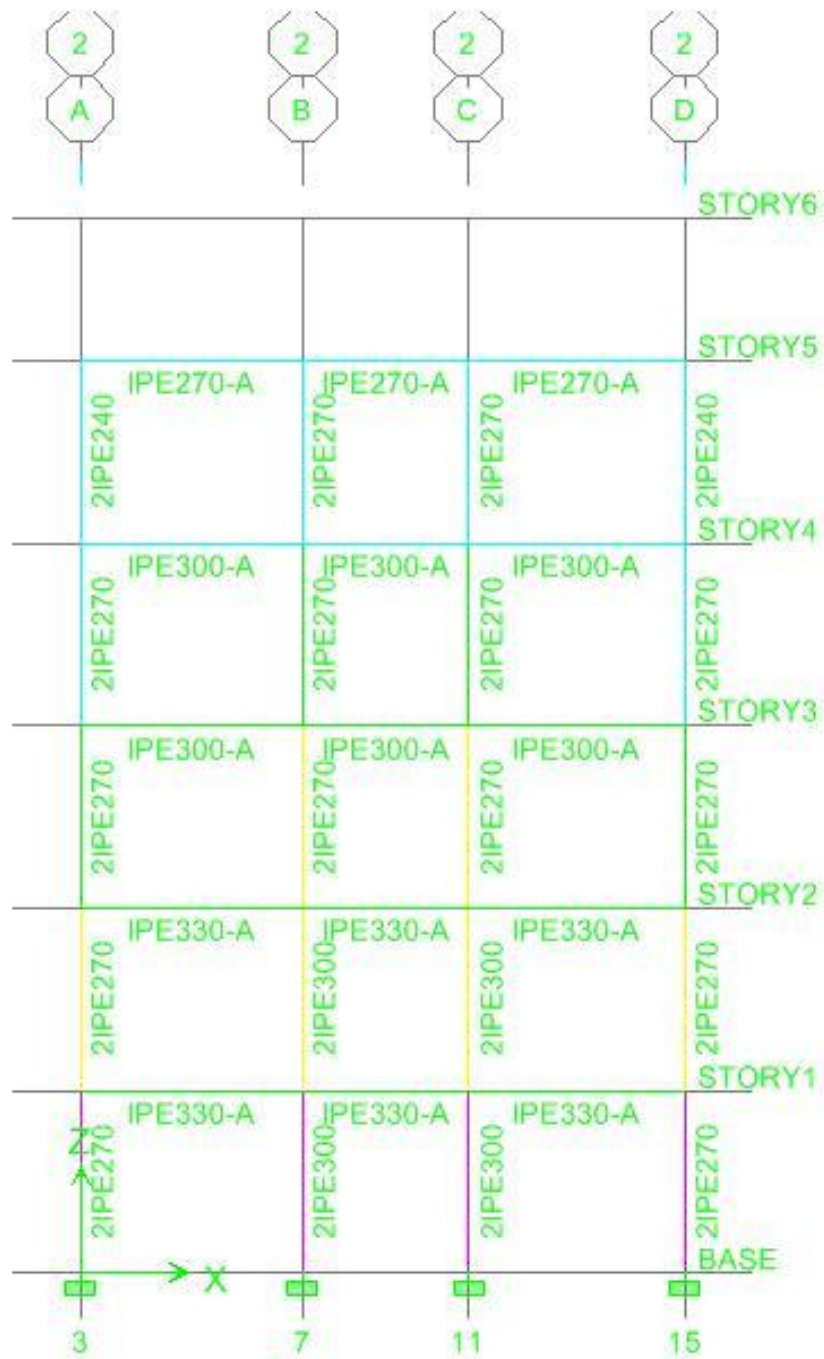


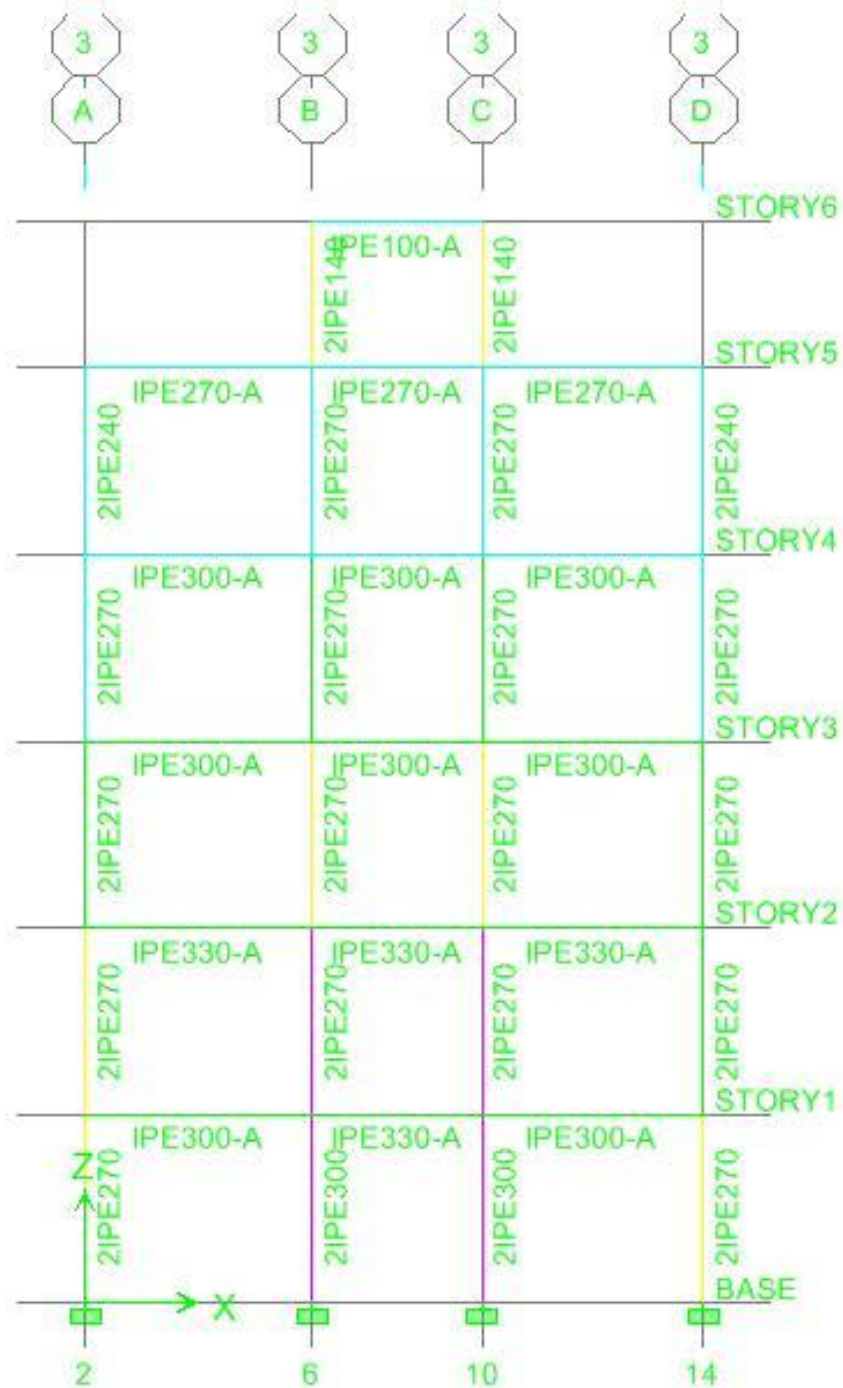


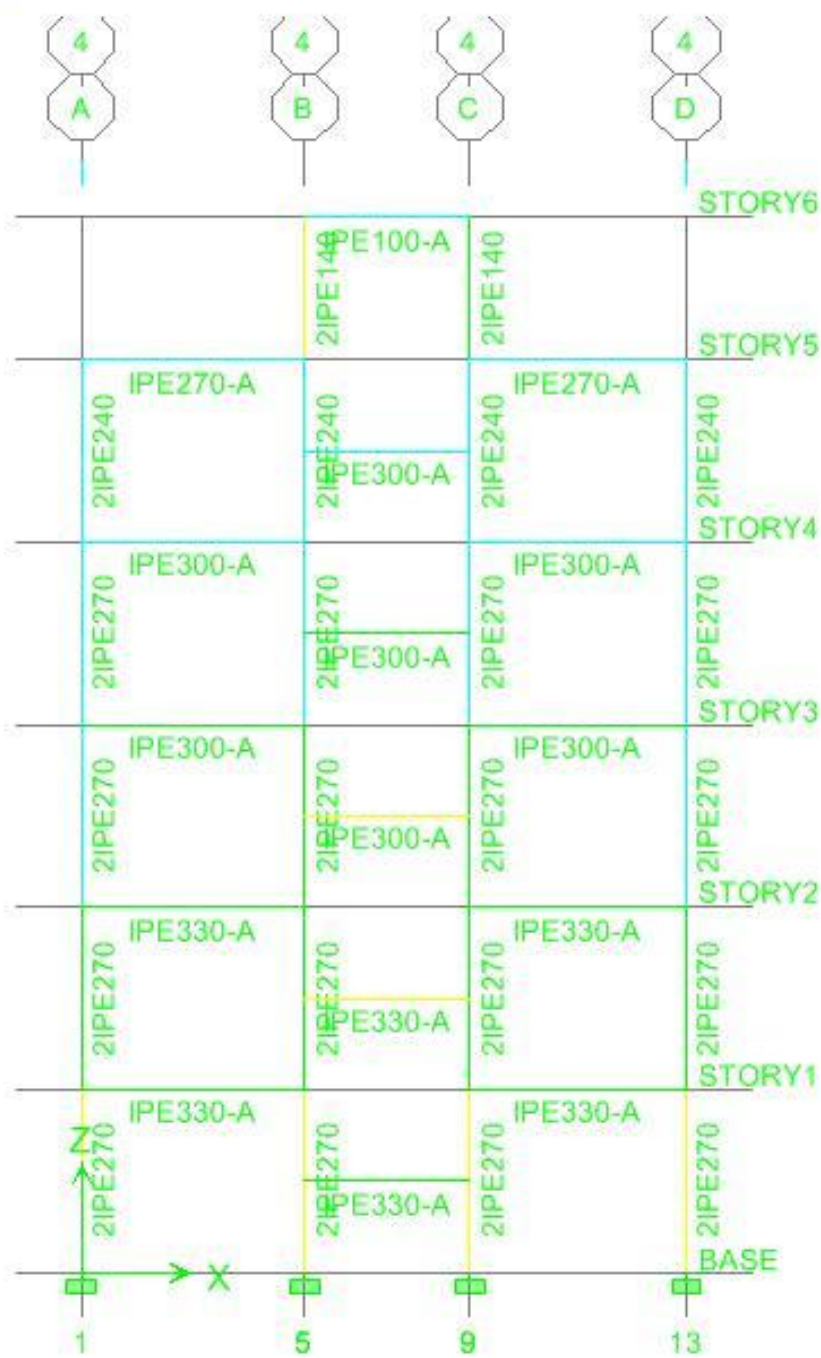


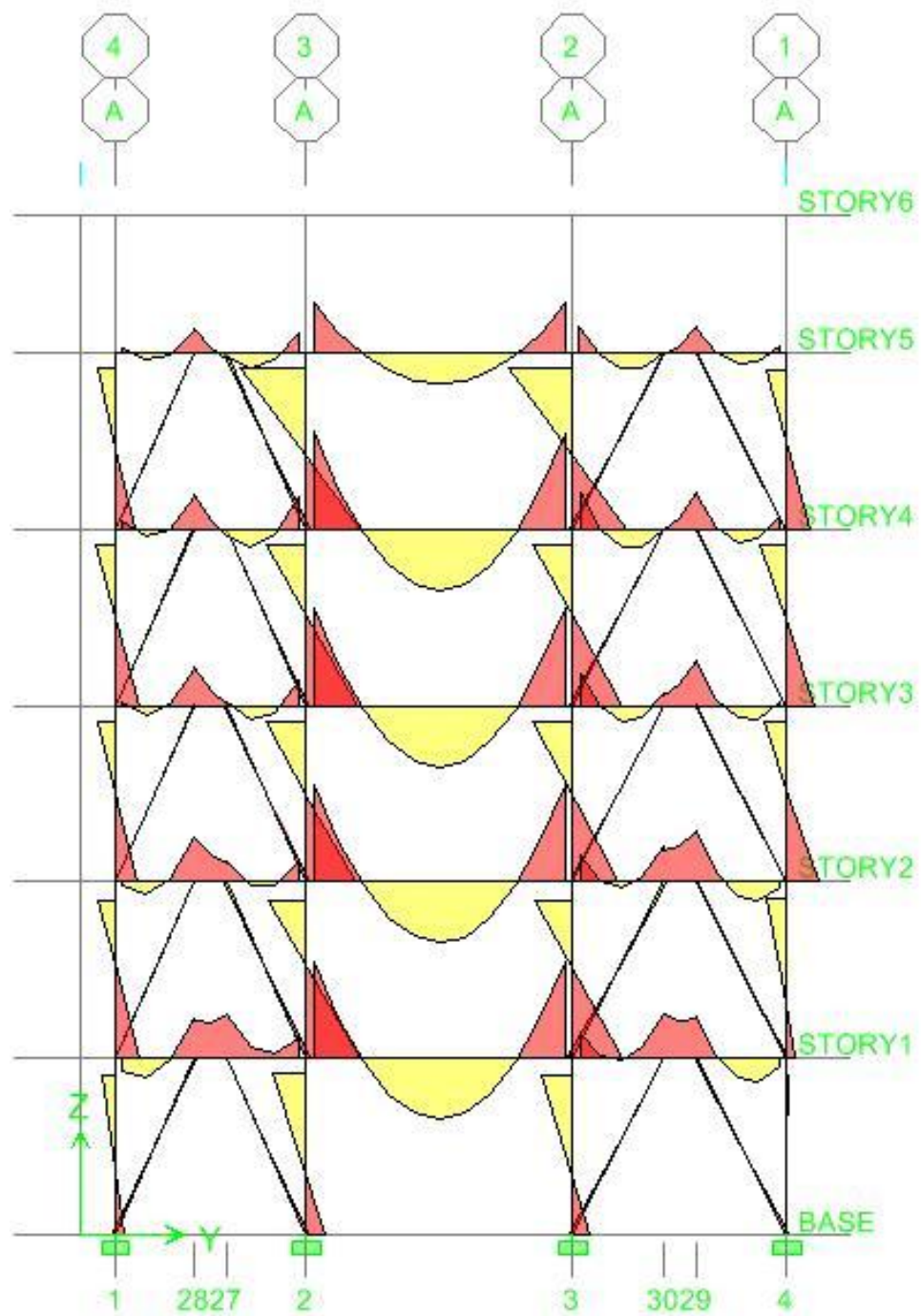


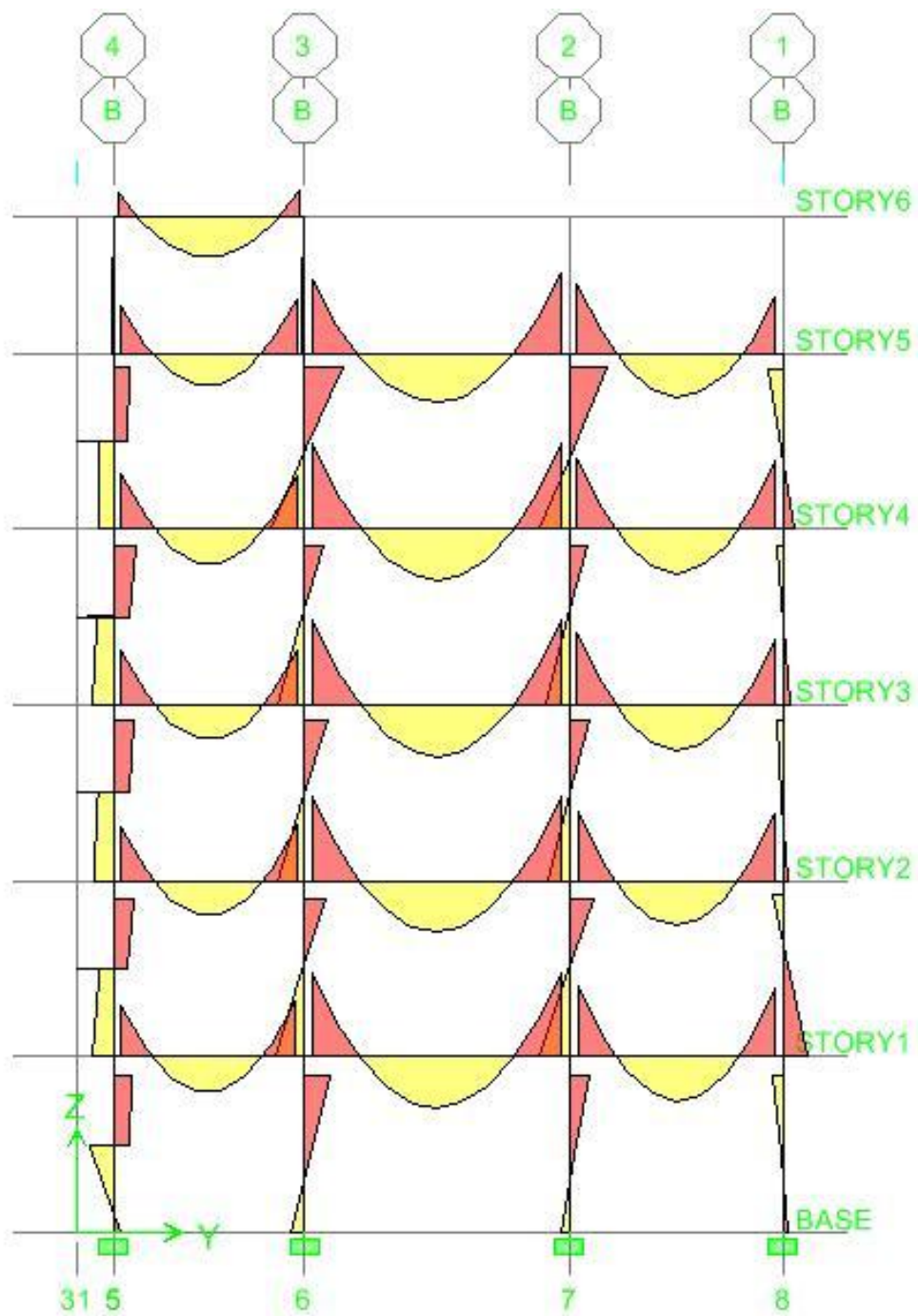


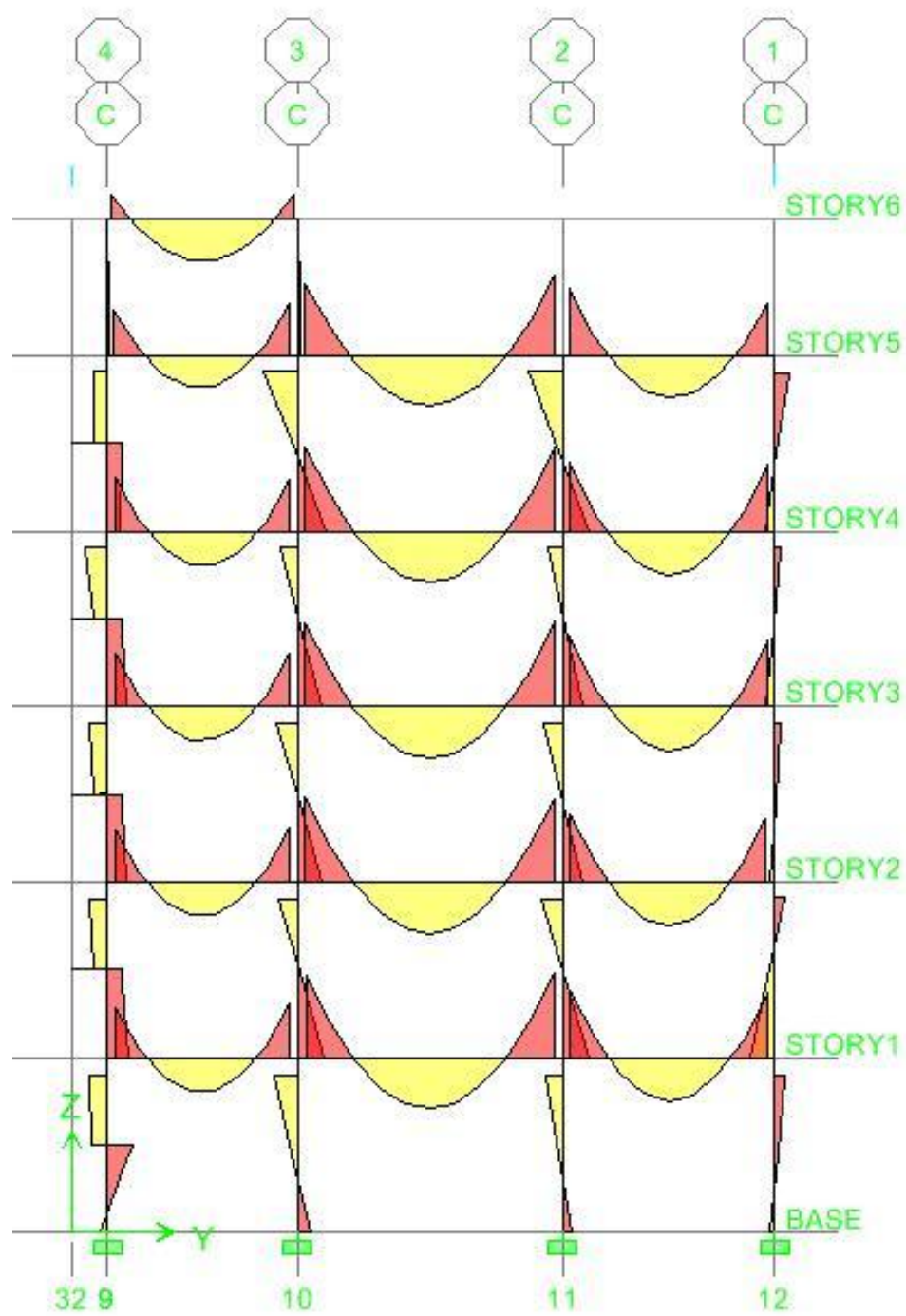


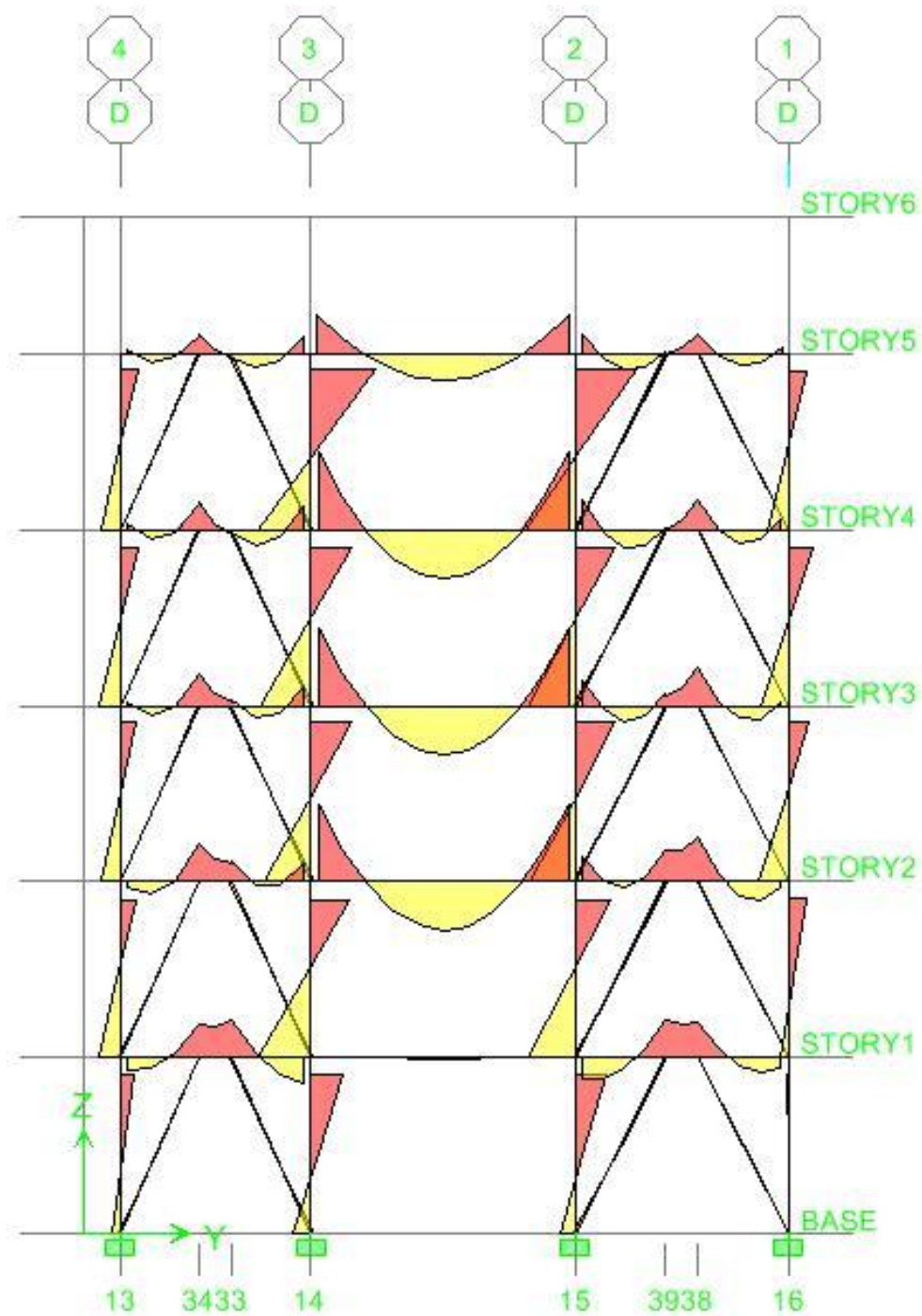


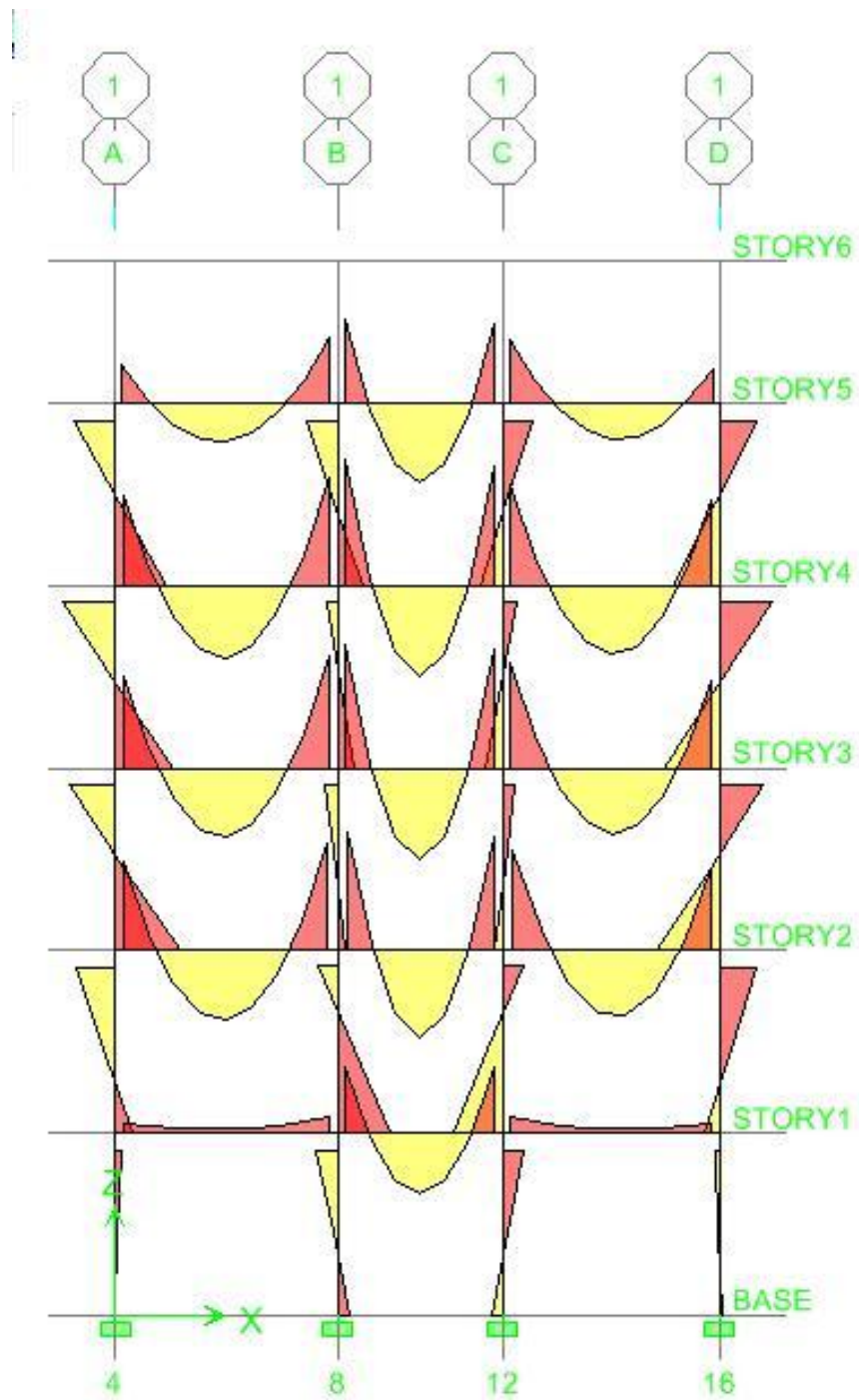


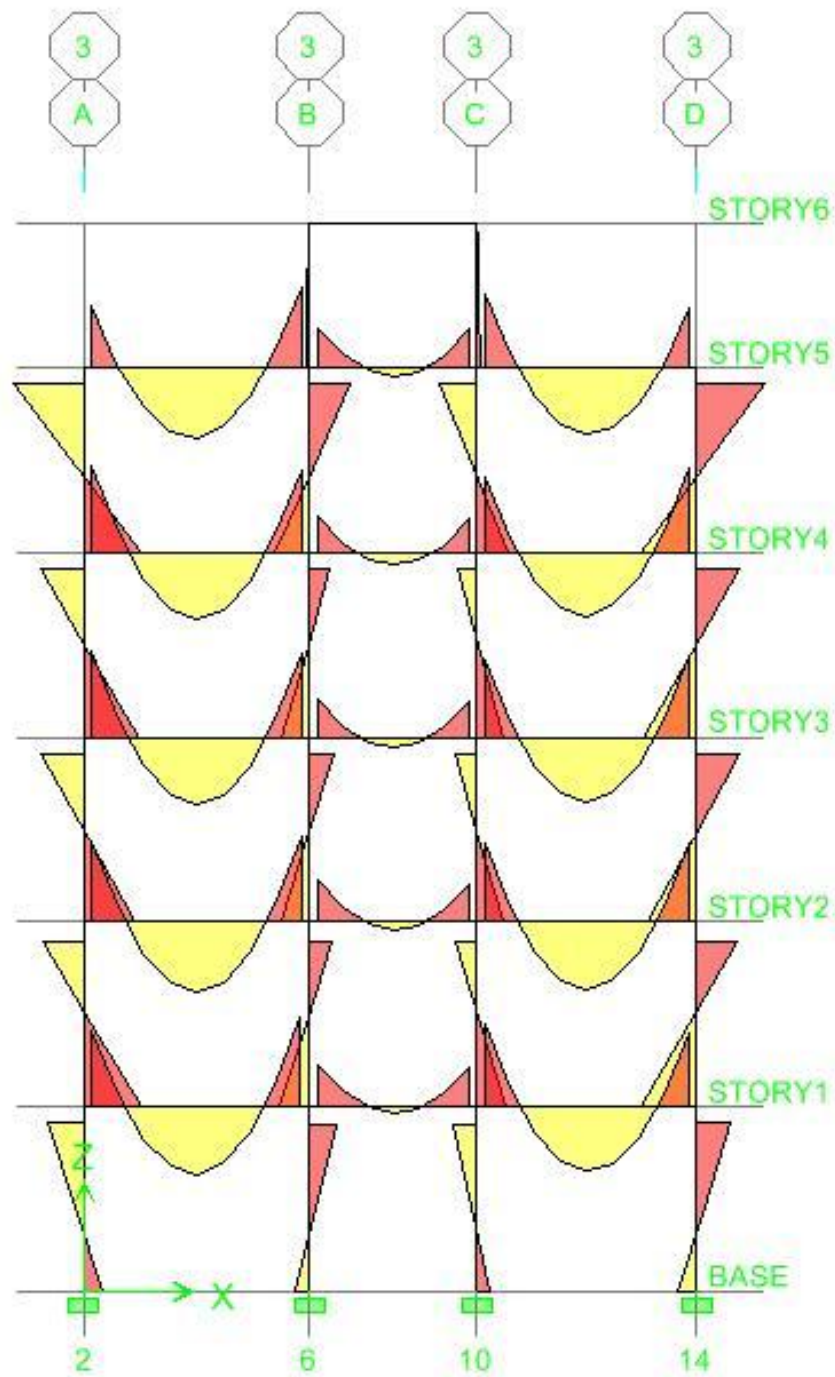












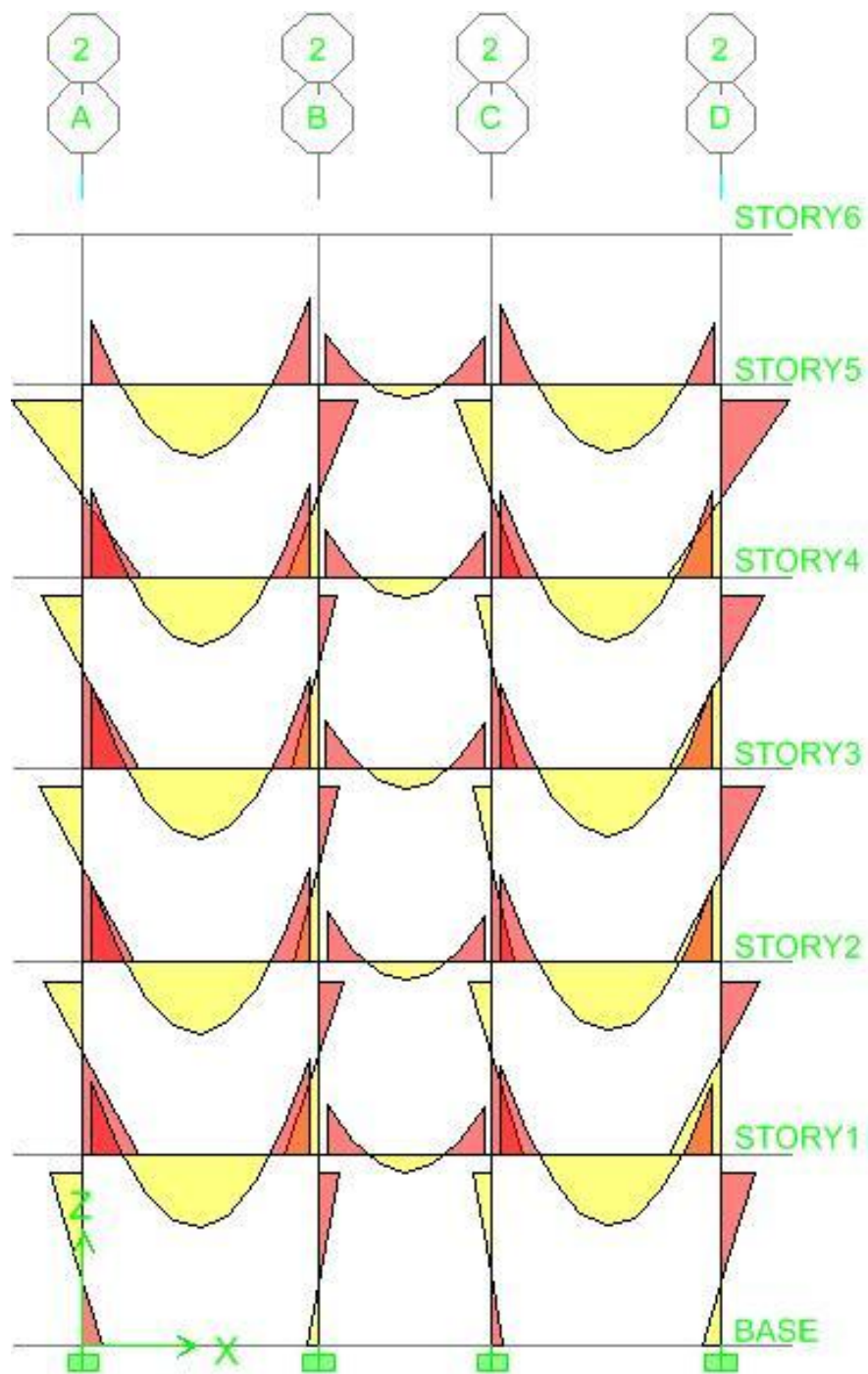


Diagram for Beam B11 at Story STORY5 (IPE140-A)

Load DL Static Load

End Length Offsets (Location)

I-End: 12.000 (12.000)

J-End: 12.000 (471.000)

Display Options

☐ Scroll for Values

☒ Show Max

Equivalent Loads



Dist Load (Down +)

4.481

at 483.000

Shears



Shear V2

-1082.37

at 0.000

Moments



Moment M3

-86032.869

at 0.000

Deflections



Deflection (Down +)

0.585

at 241.500

☐ Absolute

☐ Relative to Beam Minimum

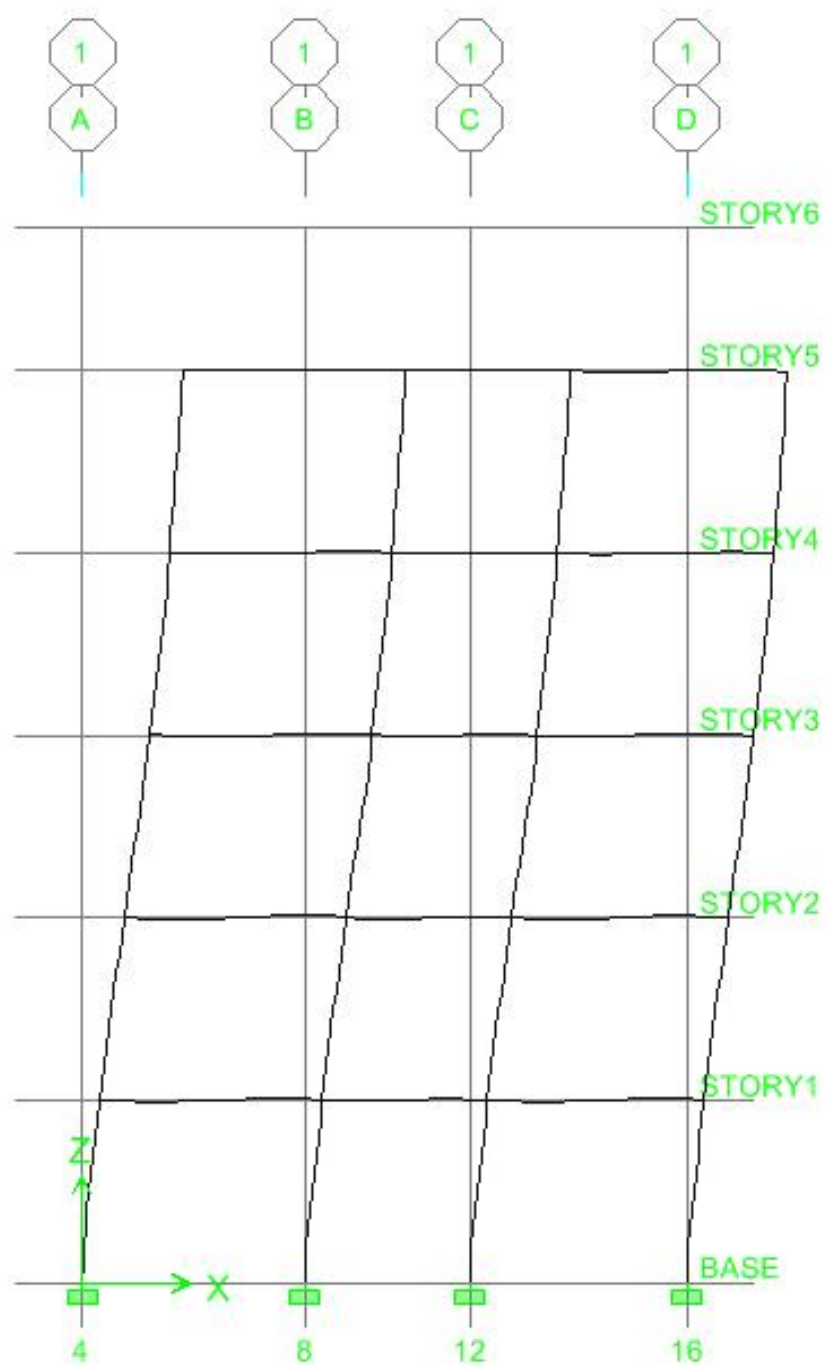
☒ Relative to Beam Ends

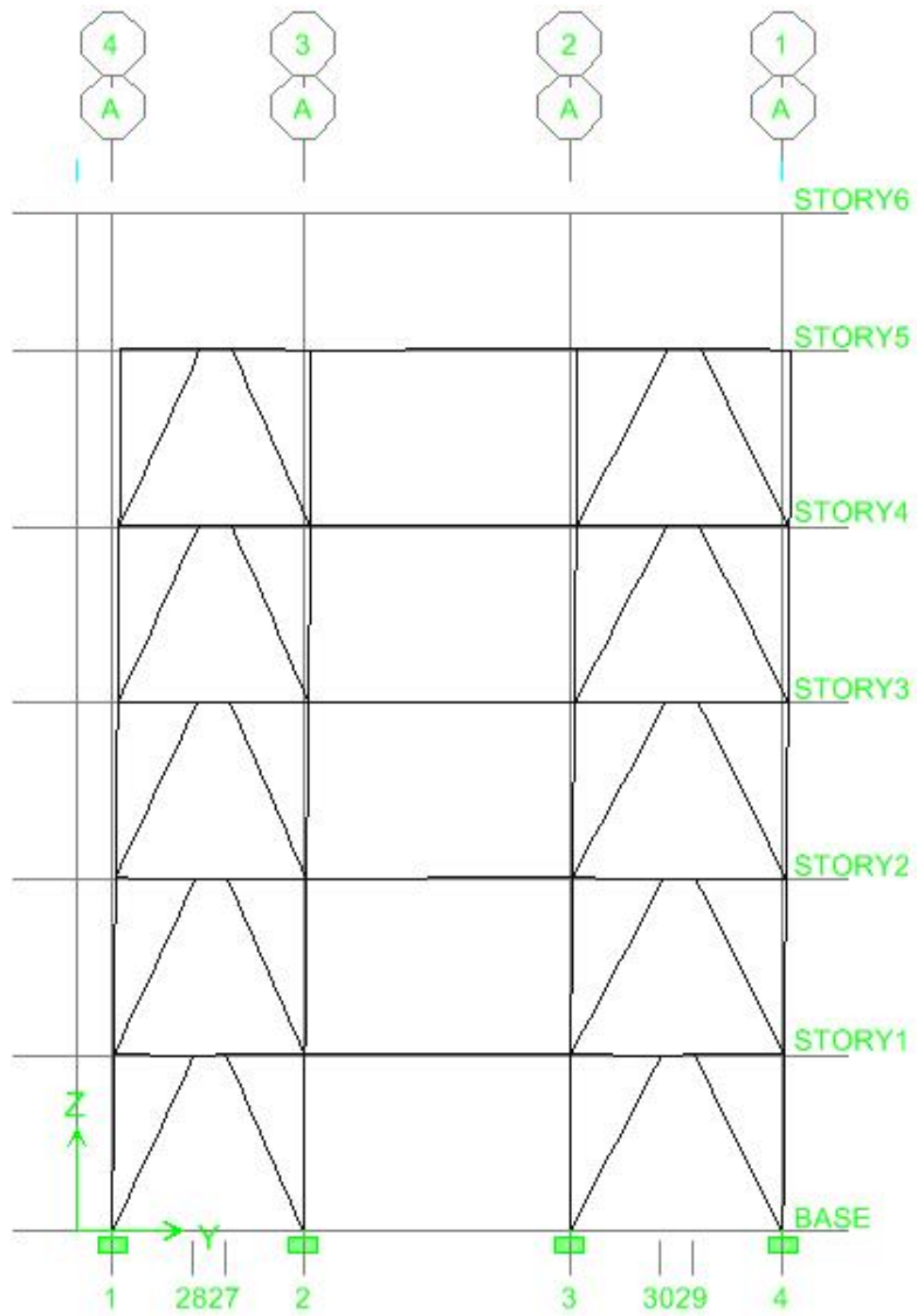
☐ Relative to Story Minimum

Done

Units

Kgf-cm







Story 3 0.0034835

Additional Notes for Printed Output

Display

Done

Set Story Range

Top Story STORY5

Bottom Story BASE

Show All

Static Loads/Response Spectra

Case EX1

Select Diaphragm

Name D1

Plot Display Colors

Global X-Direction Color

Global Y-Direction Color

Show

- ☐ Lateral Loads to Diaphragms
- ☐ Lateral Loads to Stories
- ☐ Diaphragm CM Displacement
- ☐ Diaphragm Drifts
- ☐ Maximum Story Displacements
- ☒ Maximum Story Drifts
- ☐ Story Shears
- ☐ Story Overturning Moments
- ☐ Story Stiffness

فصل ہفتم

خروجی

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