Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 11/19/13

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
1	A	2.8	5.3	1.9	3.0	6.9	10.8	21.2	33.1	-17.9	-25.8	-4.5	-25.3
1	N	-2.8	5.3	-1.9	3.0	-6.9	10.8	-21.2	33.1	4.5	-25.3	17.9	-25.8

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
1	A	-10.5	0.7	2.9	1.1	-9.9	-33.6	-2.5	-7.2	-2.1	-0.7	2.1	0.7
1	N	-2.9	1.1	10.5	0.7	9.9	-33.6	2.5	-7.2	-2.1	0.7	2.1	-0.7

Frame Line	Column Line	Seismic_Long Horiz	Seismic_Long Vert	LWIND1_L2E Horiz	LWIND1_L2E Vert	LWIND1_R2E Horiz	LWIND1_R2E Vert	LWIND2_L2E Horiz	LWIND2_L2E Vert	LWIND2_R2E Horiz	LWIND2_R2E Vert	F1UNB_SL_L Horiz	F1UNB_SL_L Vert
1	A	0.0	-9.8	0.7	-2.7	-0.9	-0.6	0.7	-2.7	-0.9	-0.6	18.3	32.0
1	N	0.0	-9.8	0.9	-0.6	-0.7	-2.7	0.9	-0.6	-0.7	-2.7	-18.4	19.9

Frame Line	Column Line	F1UNB_SL_R Horiz	F1UNB_SL_R Vert
1	A	18.4	19.9
1	N	-18.3	32.0

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
2*	A	3.7	6.7	2.6	4.0	9.3	14.4	28.6	44.1	-19.2	-29.1	-5.5	-29.1
2*	N	-3.7	6.7	-2.6	4.0	-9.3	14.4	-28.6	44.1	5.5	-29.1	19.2	-29.1

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
2*	A	-9.1	6.2	4.7	6.2	-13.5	-43.5	-3.3	-8.3	-2.4	-0.8	2.4	0.8
2*	N	-4.7	6.2	9.1	6.2	13.5	-43.5	3.3	-8.3	-2.4	0.8	2.4	-0.8

Frame Line	Column Line	Seismic_Long Horiz	Seismic_Long Vert	LWIND1_L2E Horiz	LWIND1_L2E Vert	LWIND1_R2E Horiz	LWIND1_R2E Vert	LWIND2_L2E Horiz	LWIND2_L2E Vert	LWIND2_R2E Horiz	LWIND2_R2E Vert	F2UNB_SL_L Horiz	F2UNB_SL_L Vert
2*	A	0.0	-9.8	0.9	-3.5	-1.2	-0.9	0.9	-3.5	-1.2	-0.9	24.6	42.6
2*	N	0.0	-9.8	1.2	-0.9	-0.9	-3.5	1.2	-0.9	-0.9	-3.5	-24.8	26.5

Frame Line	Column Line	F2UNB_SL_R Horiz	F2UNB_SL_R Vert
2*	A	24.8	26.5
2*	N	-24.6	42.6

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
9	A	2.8	5.3	1.9	3.0	6.9	10.8	21.2	33.1	-17.9	-25.8	-4.5	-25.3
9	N	-2.8	5.3	-1.9	3.0	-6.9	10.8	-21.2	33.1	4.5	-25.3	17.9	-25.8

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
9	A	-10.5	0.7	2.9	1.1	-9.9	-33.6	-2.5	-7.2	-2.1	-0.7	2.1	0.7
9	N	-2.9	1.1	10.5	0.7	9.9	-33.6	2.5	-7.2	-2.1	0.7	2.1	-0.7

Frame Line	Column Line	Seismic_Long Horiz	Seismic_Long Vert	LWIND1_L2E Horiz	LWIND1_L2E Vert	LWIND1_R2E Horiz	LWIND1_R2E Vert	LWIND2_L2E Horiz	LWIND2_L2E Vert	LWIND2_R2E Horiz	LWIND2_R2E Vert	F3UNB_SL_L Horiz	F3UNB_SL_L Vert
9	A	0.0	-9.8	0.7	-2.7	-0.9	-0.6	0.7	-2.7	-0.9	-0.6	18.3	32.0
9	N	0.0	-9.8	0.9	-0.6	-0.7	-2.7	0.9	-0.6	-0.7	-2.7	-18.4	19.9

Frame Line	Column Line	F3UNB_SL_R Horiz	F3UNB_SL_R Vert
9	A	18.4	19.9
9	N	-18.3	32.0

2* Frame lines: 2 3 4 5 6 7 8

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Total Len (in)	Bend Len (in)	Proj (in)
48	Endwall	5/8"	A307			2.50
72	Frame	1"	A307		3.00	2.50

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	± Reactions (k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis
L_EW	1	Rigid Frame At Endwall						
F_SW	N	1,2	3.8	3.8	3.3	3.3		
		2,3	3.8	3.8	3.3	3.3		
		3,4	3.8	3.8	3.3	3.3		
		6,7	3.8	3.8	3.3	3.3		
		7,8	3.8	3.8	3.3	3.3		
		8,9	3.8	3.8	3.3	3.3		
R_EW	9	Rigid Frame At Endwall						
B_SW	A	9,8	3.8	3.8	3.3	3.3		
		8,7	3.8	3.8	3.3	3.3		
		7,6	3.8	3.8	3.3	3.3		
		4,3	3.8	3.8	3.3	3.3		
		3,2	3.8	3.8	3.3	3.3		
		2,1	3.8	3.8	3.3	3.3		

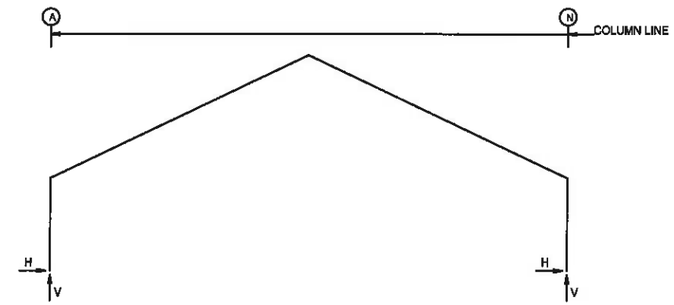
NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	=	120.0
Length (ft)	=	160.5
Eave Height (ft)	=	21.5/ 21.5
Roof Slope (rise/12)	=	5.7/ 5.7
Dead Load (psf)	=	2.0
Collateral Load (psf)	=	3.0
Roof Live Load(psf)	=	20.0
Frame Live Load(psf)	=	12.0
Snow Load (psf)	=	36.8
Wind Speed (mph)	=	110.0
Wind Code	=	IBC 09
Exposure	=	C
Closed/Open	=	P
Importance Wind	=	1.00
Importance Seismic	=	1.00
Seismic Design Category	=	C
Seismic Coeff (Fa*Ss)	=	0.60

ID	Description
1	Dead+Collateral+Snow+Slide_Snow
2	0.6Dead+Wind_Left1
3	0.6Dead+Wind_Right1
4	0.6Dead+Wind_Long1+LWIND1_L2E
5	0.6Dead+Wind_Long1+LWIND1_R2E
6	1.06Dead+1.06Collateral-0.7Seismic_Left
7	0.6Dead+Wind_Right2+Wind_Suction
8	0.6Dead+Wind_Pressure+Wind_Long2

FRAME LINES: 1 2 3 4 5 6 7 8 9



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin	Anc. Bolt Qty	Anc. Bolt Dia	Base_Plate (in) Width	Base_Plate (in) Length	Base_Plate (in) Thick
1	A	1	26.0	41.3	2	-16.2	-22.6	4	1.000	8.000	11.25	0.625
					4	-7.5	-33.1					
1	N	3	16.2	-22.6	1	-26.0	41.3	4	1.000	8.000	11.25	0.625
		1	-26.0	41.3	5	7.5	-33.1					

RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin	Anc. Bolt Qty	Anc. Bolt Dia	Base_Plate (in) Width	Base_Plate (in) Length	Base_Plate (in) Thick
2*	A	1	34.9	54.8	2	-17.0	-25.1	4	1.000	8.000	11.25	0.625
					4	-10.4	-43.1					
2*	N	3	17.0	-25.1	1	-34.9	54.8	4	1.000	8.000	11.25	0.625
		1	-34.9	54.8	5	10.4	-43.1					

2* Frame lines: 2 3 4 5 6 7 8

RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin	Anc. Bolt Qty	Anc. Bolt Dia	Base_Plate (in) Width	Base_Plate (in) Length	Base_Plate (in) Thick
9	A	1	26.0	41.3	2	-16.2	-22.6	4	1.000	8.000	11.25	0.625
					4	-7.5	-33.1					
9	N	3	16.2	-22.6	1	-26.0	41.3	4	1.000	8.000	11.25	0.625
		1	-26.0	41.3	5	7.5	-33.1					

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Wind Press Horz	Wind Suct Horz
1	B	1.3	-5.4	5.9
1	D	1.7	-8.7	9.3
1	F	2.7	-17.6	18.7
1	I	2.7	-17.6	18.7
1	K	1.7	-8.7	9.3
1	M	1.3	-5.4	5.9
9	L	1.4	-7.6	8.2
9	J	1.9	-10.2	10.9
9	H	2.3	-13.8	14.7
9	G	2.3	-13.8	14.7
9	E	1.9	-10.2	10.9
9	C	1.4	-7.6	8.2

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ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin	Anc. Bolt Qty	Anc. Bolt Dia	Base_Plate (in) Width	Base_Plate (in) Length	Base_Plate (in) Thick
1	B	7	5.9	0.8	8	-5.4	0.8	4	0.625	SEE S1.1	SEE S1.1	0.250
		6	0.0	1.4								
1	D	7	9.3	1.0	8	-8.7	1.0	4	0.625	SEE S1.1	SEE S1.1	0.250
		6	0.0	1.8								
1	F	7	18.7	1.6	8	-17.6	1.6	4	0.625	SEE S1.1	SEE S1.1	0.375
		6	0.0	2.9								
1	I	7	18.7	1.6	8	-17.6	1.6	4	0.625	SEE S1.1	SEE S1.1	0.375
		6	0.0	2.9								
1	K	7	9.3	1.0	8	-8.7	1.0	4	0.625	SEE S1.1	SEE S1.1	0.250
		6	0.0	1.8								
1	M	7	5.9	0.8	8	-5.4	0.8	4	0.625	SEE S1.1	SEE S1.1	0.250
		6	0.0	1.4								
9	L	7	8.2	0.9	8	-7.6	0.9	4	0.625	SEE S1.1	SEE S1.1	0.250
		6	0.0	1.5								
9	J	7	10.9	1.1	8	-10.2	1.1	4	0.625	SEE S1.1	SEE S1.1	0.250
		6	0.0	2.0								
9	H	7	14.7	1.4	8	-13.8	1.4	4	0.625	SEE S1.1	SEE S1.1	0.250
		6	0.0	2.5								
9	G	7	14.7	1.4	8	-13.8	1.4	4	0.625	SEE S1.1	SEE S1.1	0.250
		6	0.0	2.5								
9	E	7	10.9	1.1	8	-10.2	1.1	4	0.625	SEE S1.1	SEE S1.1	0.250
		6	0.0	2.0								
9	C	7	8.2	0.9	8	-7.6	0.9	4	0.625	SEE S1.1	SEE S1.1	0.250
		6	0.0	1.5								

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PATENT PENDING

BUILDING REACTIONS

Sheet Number:

S0.2