

**RIGID FRAME:**

BASIC COLUMN REACTIONS (k )

Frame Line	Column Line	---Dead---		---Collateral---		---Live---		---Snow---		---Wind_L1---		---Wind_R1---	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2	C	0.16	1.94	0.25	1.13	0.59	7.99	0.27	19.08	-3.09	-14.42	4.56	-9.26
2	F	-0.16	1.88	-0.25	1.14	-0.59	6.04	-0.27	12.54	-2.74	-6.23	3.18	-11.39
3 *	C	0.24	2.48	0.39	1.54	0.90	10.84	0.43	25.91	-4.49	-20.09	6.21	-12.05
3 *	F	-0.24	2.41	-0.39	1.55	-0.90	8.19	-0.43	16.99	-4.33	-7.92	5.19	-15.96

Frame Line	Column Line	---Wind_L2---		---Wind_R2---		---LnWind_1---		---LnWind_2---		---Seismic_L---		---Seismic_R---	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2	C	-3.72	-12.32	3.98	-7.17	0.76	-4.98	0.76	-4.98	-0.78	-0.72	0.78	0.72
2	F	-2.10	-4.15	3.76	-9.30	-0.65	-5.12	-0.65	-5.12	-0.52	0.72	0.52	-0.72
3 *	C	-5.24	-17.25	5.53	-9.21	0.82	-7.80	0.82	-7.80	-1.17	-1.18	1.17	1.18
3 *	F	-3.56	-5.09	5.88	-13.13	-0.66	-8.01	-0.66	-8.01	-0.97	1.18	0.97	-1.18

Frame Line	Column Line	---LnSeis---	
		Horiz	Vert
2	C	0.00	0.00
2	F	0.00	0.00
3 *	C	0.00	-2.02
3 *	F	0.00	-2.21

3 \* Frame lines: 3 4 5

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

Frm Line	Col Line	Load Id	Hmax H	---Column Reactions (k )---			Anc. Bolt No	Bolt D(in)	---Base Plate (in)---			Grout (in)	
				V Vmax	Load Id	Hmin H			V Vmin	Wid	Len		Thk
2	C	8	5.0	-6.2	5	-3.6	-11.2	4	0.750	8.000	11.00	0.500	0.0
2	C	2	0.7	22.2	3	-3.0	-13.3						
2	F	6	3.7	-8.2	7	-3.2	-3.2	4	0.750	8.000	11.00	0.500	0.0
2	F	2	-0.7	15.6	4	3.1	-10.3						

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

Frm Line	Col Line	Load Id	Hmax H	---Column Reactions (k )---			Anc. Bolt No	Bolt D(in)	---Base Plate (in)---			Grout (in)	
				V Vmax	Load Id	Hmin H			V Vmin	Wid	Len		Thk
3 *	C	8	6.8	-8.0	5	-5.1	-15.8	4	0.750	8.000	13.00	0.500	0.0
3 *	C	2	1.1	29.9	3	-4.3	-18.6						
3 *	F	6	5.7	-11.7	7	-5.0	-4.0	4	0.750	8.000	13.00	0.500	0.0
3 *	F	2	-1.1	20.9	4	5.0	-14.5						

3 \* Frame lines: 3 4 5

**NOTES FOR REACTIONS**

- All loading conditions are examined and only maximum/minimum H or V and the cooresponding H or V are reported.
- Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
- Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
- Building reactions are based on the following building data.

Width (ft)	: 30
Length (ft)	: 152
Eave Height (ft)	: 17 / 18.25
Roof Slope (rise/12)	: 0.5:12
Design Code	: IBC 06
Enclosure	: Closed
Dead Load (psf)	: 2.45
Collateral Load (psf)	: 3
Wind Speed (mph)	: 90 mph
Wind Importance Factor	: 1.00
Wind Exposure	: C
Live Load (psf)	: 20
Frame Live Load (psf)	: 12
Ground Snow Load (psf)	: 21.000
Roof Snow Load (psf)	: 20
Snow Exposure	: 1.000
Snow Importance Factor	: 1.000
Thermal Factor	: 1.000
Seismic Importance Factor	: 1.00
Spectral Response Accel.	: Ss=0.511 : S1=0.156
Spectral Response Coeff.	: Sds=0.474 : Sd1=0.226
Seismic Coeff. (Fa*Ss)	: 0.710 : Fa=1.391
Seismic Design Category	: D

5. Loading conditions are:

- DL+CL+LL
- DL+CL+SL
- 0.6ODL+WL1
- 0.6ODL+WR1
- 0.6ODL+WL2
- 0.6ODL+WR2
- DL+CL+WL1
- DL+CL+WR1
- 0.6ODL+WR1+WS
- 0.6ODL+WP+LnWnd1
- DL+CL+0.75LL+0.75WL2+0.75WS

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

Frm Line	Col Line	---Column Reactions (k )---									
		Dead Vert	Coll Vert	Live Vert	Wind-Left Horiz	Wind-Left Vert	Wind-Right Horiz	Wind-Right Vert	Out-Of-Plane Wd P Horiz	Out-Of-Plane Wd S Horiz	
1	C	1.1	0.2	4.5	0.9	-6.1	0.0	-5.1	-0.7	0.8	
1	E	0.8	0.6	2.4	0.0	-1.5	1.4	-2.9	-1.5	1.7	
1	F	0.7	0.2	2.3	0.0	-2.4	0.0	-2.4	-0.9	1.0	

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

Frm Line	Col Line	Load Id	Hmax H	---Column Reactions (k )---			Anc. Bolt No	Bolt D(in)	---Base Plate (in)---			Grout (in)	
				V Vmax	Load Id	Hmin H			V Vmin	Wid	Len		Thk
1	C	9	0.8	-5.1	10	-0.7	-0.5	4	0.750	8.000	8.500	0.375	0.0
1	C	2	-0.1	10.0	9	0.8	-5.1						
1	E	9	1.6	-1.6	10	-1.5	-2.7	4	0.750	8.000	8.500	0.375	0.0
1	E	1	0.0	4.2									
1	F	9	1.0	-2.4	10	-0.9	-0.8	4	0.750	8.000	8.500	0.375	0.0
1	F	2	0.0	4.8	9	1.0	-2.4						

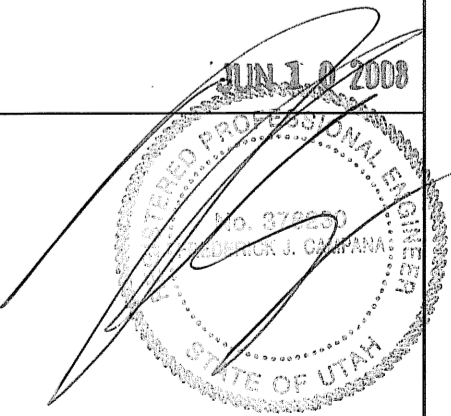
**BRACING REACTIONS, PANEL SHEAR**

---Wall-- Loc	Col Line	± Reactions (k )				Panel Shear (lb/ft)
		---Wind---	---Seismic---			
Line	Line	Horz	Vert	Horz	Vert	
L_EW 1	C, E	1.4	1.4	0.6	0.6	
F_SW F	Wind Bent In Wall					
R_EW 6	Bracing In Roof To Rigid Frame					
B_SW C	Wind Bent In Wall					

**WIND BENT REACTIONS**

---Wall-- Loc	Col Line	± Reactions Wind(k )				± Reactions Seismic(k )	
		Horz	Vert	Horz	Vert	Horz	Vert
F_SW F	3	1.05	1.06	1.71	1.74		
F_SW F	4	1.05	1.06	1.71	1.74		
B_SW C	4	1.11	1.04	1.69	1.59		
B_SW C	3	1.11	1.04	1.69	1.59		

**FOR PERMIT**



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ISSUE	REV.	DESCRIPTION	DATE	DRN.	DES.
A		CONFIRMATION	05.20.08	FFF	LD
O		CONSTRUCTION	06.04.08	DM	MT



DESCRIPTION	FRAME REACTIONS
CUSTOMER	ELEGANTE ENTERPRISES, INC.
END USER	PAINTERS SERVICE CENTER
END USE	OFFICE/SERVICE BAYS
LOCATION	1600 HILTON DR. ST. GEORGE, UT 84770
DRN. BY: DM	DATE: 06/04/08
CHK. BY: MT	DATE: 06/04/08
JOB NO.: 28268-B	SCALE: N.T.S.
DWG. NO.: F3 OF 3	ISSUE: 0