

STEEL LINE

SILL ANGLE

FIN. FLOOR

ATTACHMENT TO CONCRETE BY OTHERS

SECTION "A"
BASE SECTION

STEEL LINE

3"

3 1/2"

3 1/2"

FIN. FLR.

RAMP (IF REQ'D)

STEEL LINE

3"

FIN. FLR.

SECTION "B"
OVERHEAD DOOR BASE SECTION

STEEL LINE

1 1/4"

DOOR OPENING WIDTH

C"

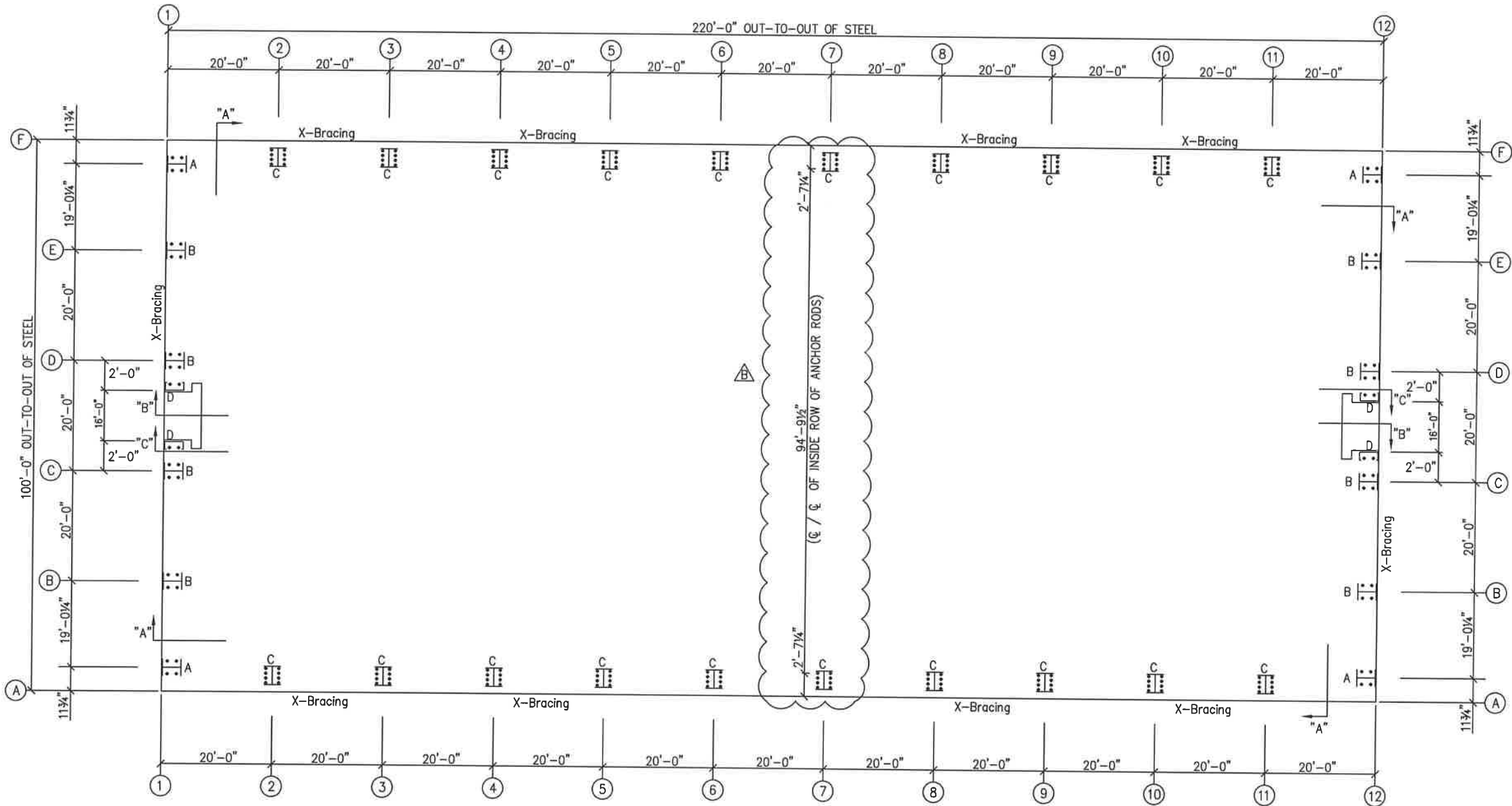
SECTION "C"
F.O. JAMB BASE SECTION

STEEL LINE

WALKDOOR BASE PLATE DETAIL

A. RODS 1/2" Ø BASE PL. THK. 1/4"

Grt. Width	Walk Door Frame	Dim.	Ramp Width
8"	8"	2 1/2"	11 1/2"
10"	10"	3 1/2"	1'-1 1/2"
12"	12"	4 1/2"	1'-3 1/2"



ANCHOR ROD PLAN
NOTE: All Base Plates @ 100'-0" (FINISH FLOOR)(UNLESS NOTED)

Dia= 5/8"

SW

11 1/4"

13 1/4"

8"

6"

2 1/2"

3"

DETAIL A

Dia= 5/8"

See Plan

13 1/4"

8"

6"

2 1/2"

3"

DETAIL B

Dia= 1 1/4"

See Plan

1'-9"

2'-3"

5 3/4"

5 3/4"

5 3/4"

8 1/4"

6"

6"

DETAIL C

Dia= 5/8"

See Plan

13 1/4"

8"

3 1/2"

2 1/2"

3"

DETAIL D

ANCHOR RODS HAVE BEEN DESIGNED FOR SHEAR AND TENSION LOADS ONLY, PER APPENDIX D OF ACI 318-08.

DESIGN OF SHEAR ANGLES, TENSION PLATES, HAIRPINS, AND ANY OTHER EMBEDDED MATERIAL IN THE CONCRETE SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER AND PROVIDED BY OTHERS.

ANCHOR ROD PROJECTION IS FROM BOTTOM OF BASE PLATE, UNLESS GROUT IS REQUIRED.

DIA.	PROJ.
1/2"	1 1/2"
5/8"	2"
3/4"	2 1/2"
7/8"	3 1/2"
1"	3 1/2"
1 1/4"	3 1/2"

PROJ.

HEAVY HEX NUT & WASHER

FOUNDATION

ANCHOR ROD ASTM-F1554-GR36

HEAVY HEX NUT

TACK WELD

LEVELING NUT

HEAVY HEX NUT & WASHER

FOUNDATION

ANCHOR ROD ASTM-F1554-GR36

HEAVY HEX NUT

TACK WELD

FRAMED OPENING WIDTH

1 3/4"

1 3/4"

FRAMED OPENING ANCHOR ROD DETAIL
A. RODS 5/8" Ø BASE PL. THK. 1/4"

F.O. SIZE	QTY.	SHOP LOCATE	FIELD LOCATE	TYPE/REMARKS
16'-0" X 14'-0"	2	X		FOR O.H. DOOR

FRAMED OPENING SCHEDULE

FOR APPROVAL:

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FOR CONSTRUCTION:

FINAL DRAWINGS.

NO.

DATE

DESCRIPTION

BY

CHK'D

A

8/13/18

FOR PERMIT

JGA

DC

B

11/1/18

REV. FOR PERMIT

JGA

DM

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NO.

DATE

DESCRIPTION

BY

CHK'D

A

8/13/18

FOR PERMIT

JGA

DC

B

11/1/18

REV. FOR PERMIT

JGA

DM

DESCRIPTION

ANCHOR ROD PLAN

SIZE

REFER TO C1

OWNER OR PROJECT

Dwayne Osadchuk

JOB SITE LOCATION

23850 TOBIANO TRAIL
OAK CREEK, CO 80467

CAD BY

JGA

ENGR BY

JUG

DATE

8/13/18

SCALE

N.T.S.

JOB NO.

142578

PH

BLDG. DESC.

SHEET NO.

F1 of 2

ISSUE

B

DSN. APR.

APR. DATE

COLORADO LICENSED

PATRICK W. BARBICK

0052611

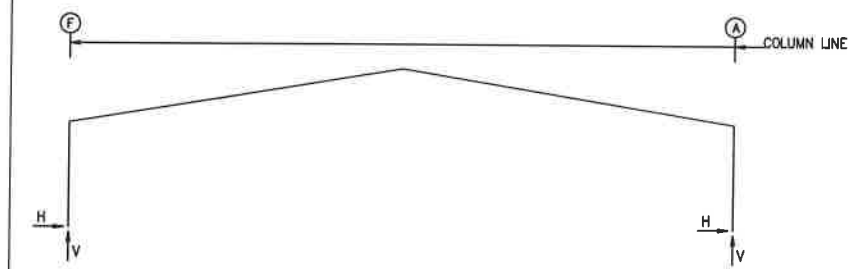
PROFESSIONAL ENGINEER

Sealed: 11/2/18

Rhino Steel Bldg. Systems

23850 TOBIANO TRAIL
OAK CREEK, CO 80467
781 333-8288 FAX 781 333-7400
www.rhino-bldg.com

FRAME LINES: 2 3 4 5 6 7 8 9 10 11



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

Frm Line	Col Line	Column Reactions (k)				V	Bolt (in)	Dia	Base Plate (in)			Grout (in)
		Load Id	Hmax	V	Load Id	Hmin			Width	Length	Thick	
2*	F	1	87.6	100.0	2	-7.4	8	1.250	21.00	27.00	0.750	0.0
2*	A	3	7.4	-8.0	4	-4.3	8	1.250	21.00	27.00	0.750	0.0
2*		1	-87.6	100.0	5	4.3						
2*	Frame lines: 2 3 4 5 6 7 8 9 10 11											

BUILDING BRACING REACTIONS

Loc	Wall Line	Col Line	Reactions (k)				Panel Shear (lb/ft)	
			Wind	Seismic	Wind	Seismic	Wind	Seis
L_EW	1	E,D	2.2	2.3	2.6	2.7		
F_SW	A	2,3	2.3	1.6	6.5	4.6		
		4,5	2.3	1.6	6.5	4.6		
		6,9	2.3	1.6	6.5	4.6		
		10,11	2.3	1.6	6.5	4.6		
R_EW	12	B,C	2.2	2.3	2.6	2.7		
B_SW	F	11,10	2.3	1.6	6.5	4.6		
		9,8	2.3	1.6	6.5	4.6		
		5,4	2.3	1.6	6.5	4.6		
		3,2	2.3	1.6	6.5	4.6		

NOTES FOR REACTIONS

Building reactions are based on the following building data:

- Width (ft) = 100.0
- Length (ft) = 220.0
- Eave Height (ft) = 16.0 / 16.0
- Roof Slope (rise/12) = 2.0 / 2.0
- Dead Load (psf) = 3.0
- Collateral Load (psf) = 1.0
- Live Load (psf) = 30.0
- Snow Load (psf) = 84.7
- Wind Speed (mph) = 115.0
- Wind Code = IBC 15
- Exposure = C
- Closed/Open = C
- Importance Wind = N/A
- Importance Seismic = 1.00
- Seismic Zone = B
- Seismic Coeff (Fa/Sa) = 0.43

ID	Description
1	Dead+Collateral+Snow
2	0.6Dead+0.6Wind_Left1
3	0.6Dead+0.6Wind_Right1
4	0.6Dead+0.6Wind_Long1L
5	0.6Dead+0.6Wind_Long2L
6	0.6Dead+0.6Wind_Left1+0.6Wind_Suction
7	0.6Dead+0.6Wind_Pressure+0.6Wind_Long1L
8	Dead+Collateral+E1UNB_SL_L
9	0.6Dead+0.6Wind_Suction+0.6Wind_Long1L
10	0.6Dead+0.6Wind_Suction+0.6Wind_Long2L
11	0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
12	Dead+Collateral+E1UNB_SL_R
13	0.6Dead+0.6Wind_Right1+0.6Wind_Suction
14	Dead+Collateral+E2UNB_SL_L
15	Dead+Collateral+E2UNB_SL_R

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1		Wind_Right1	Wind_Left2		Wind_Right2	Wind Press Horiz
						Horz	Vert		Horz	Vert		
1	F	0.6	0.1	3.1	10.8	0.0	-3.5	0.0	-3.0	-2.6	0.0	-1.6
1	E	1.2	0.2	6.7	18.6	2.2	-9.3	0.0	-1.5	2.2	-7.2	0.0
1	C	1.1	0.2	6.0	17.1	0.0	-2.3	2.2	-5.6	0.0	-0.8	2.2
1	D	1.1	0.2	6.0	17.1	0.0	-2.9	0.0	-4.6	0.0	-1.4	0.0
1	B	1.2	0.2	6.7	18.6	0.0	-4.2	0.0	-6.9	0.0	-2.1	0.0
1	A	0.6	0.1	3.1	10.8	0.0	-3.0	0.0	-3.5	0.0	-2.1	-2.6

Frm Line	Col Line	Wind Suct Horiz	Wind_Long1		Wind_Long2		Seis_Left		Seis_Right		-MIN_SNOW-		E1UNB_SL_L	
			Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	F	1.8	0.0	-2.5	0.0	-1.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	6.7
1	E	4.1	0.0	-5.7	1.1	-5.1	2.6	-2.6	0.0	3.1	0.0	4.5	0.0	21.5
1	C	5.0	1.1	-6.7	0.0	-2.3	0.0	2.6	2.6	-3.0	0.0	4.0	0.1	24.5
1	D	5.0	0.0	-3.5	0.0	-5.4	0.0	0.2	0.0	-0.2	0.0	4.0	0.0	6.7
1	B	4.1	0.0	-4.0	0.0	-7.0	0.0	-0.1	0.0	0.1	0.0	4.5	0.0	5.4
1	A	1.8	0.0	-1.4	0.0	-2.5	0.0	0.0	0.0	0.0	0.0	1.7	0.0	2.2

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1		Wind_Right1	Wind_Left2		Wind_Right2	Wind Press Horiz
						Horz	Vert		Horz	Vert		
12	A	0.6	0.1	3.1	10.8	0.0	-3.5	0.0	-3.0	-2.6	0.0	-1.6
12	B	1.2	0.2	6.7	18.6	2.2	-9.3	0.0	-1.5	2.2	-7.2	0.0
12	C	1.1	0.2	6.0	17.1	0.0	-2.3	2.2	-5.6	0.0	-0.8	2.2
12	D	1.1	0.2	6.0	17.1	0.0	-2.9	0.0	-4.6	0.0	-1.4	0.0
12	E	1.2	0.2	6.7	18.6	0.0	-4.2	0.0	-6.9	0.0	-2.1	0.0
12	F	0.6	0.1	3.1	10.8	0.0	-3.0	0.0	-3.5	0.0	-2.1	-2.6

Frm Line	Col Line	Wind Suct Horiz	Wind_Long1		Wind_Long2		Seis_Left		Seis_Right		-MIN_SNOW-		E2UNB_SL_L	
			Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
12	A	1.8	0.0	-2.5	0.0	-1.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	6.7
12	B	4.1	0.0	-5.7	1.1	-5.1	2.6	-2.6	0.0	3.1	0.0	4.5	0.0	21.5
12	C	5.0	1.1	-6.7	0.0	-2.3	0.0	2.6	2.6	-3.0	0.0	4.0	0.1	24.5
12	D	5.0	0.0	-3.5	0.0	-5.4	0.0	0.2	0.0	-0.2	0.0	4.0	0.0	6.7
12	E	4.1	0.0	-4.0	0.0	-7.0	0.0	-0.1	0.0	0.1	0.0	4.5	0.0	5.4
12	F	1.8	0.0	-1.4	0.0	-2.5	0.0	0.0	0.0	0.0	0.0	1.7	0.0	2.2

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1		Wind_Right1	Wind_Left2		Wind_Right2	Wind Press Horiz
						Horz	Vert		Horz	Vert		
12	A	0.6	0.1	3.1	10.8	0.0	-3.5	0.0	-3.0	-2.6	0.0	-1.6
12	B	1.2	0.2	6.7	18.6	2.2	-9.3	0.0	-1.5	2.2	-7.2	0.0
12	C	1.1	0.2	6.0	17.1	0.0	-2.3	2.2	-5.6	0.0	-0.8	2.2
12	D	1.1	0.2	6.0	17.1	0.0	-2.9	0.0	-4.6	0.0	-1.4	0.0
12	E	1.2	0.2	6.7	18.6	0.0	-4.2	0.0	-6.9	0.0	-2.1	0.0
12	F	0.6	0.1	3.1	10.8	0.0	-3.0	0.0	-3.5	0.0	-2.1	-2.6

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

Frm Line	Col Line	Column Reactions (k)				V	Bolt (in)	Dia	Base Plate (in)			Grout (in)
		Load Id	Hmax	V	Load Id	Hmin			Width	Length	Thick	
1	F	6	1.1	-1.7	7	-1.0	4	0.625	6.000	8.000	0.375	0.0
		1	0.0	11.5	6	1.1						
1	E	6	2.5	-4.9	7	-2.2	4	0.625	6.000	8.000	0.375	0.0
		8	0.0	22.9	6	2.5						
1	D	9	3.0	-3.4	7	-2.7	4	0.625	6.000	8.000	0.375	0.0
		8	0.0	25.8	9	3.0						
1	C	10	3.0	-2.6	11	-2.7	4	0.625	6.000	8.000	0.375	0.0
		12	0.0	26.0	10	3.0						
1	B	10	2.5	-3.5	11	-2.2	4	0.625	6.000	8.000	0.375	0.0
		12	0.0	22.8	10	2.5						
1	A	13	1.1	-1.7	11	-1.0	4	0.625	6.000	8.000	0.375	0.0
		1	0.0	11.5	13	1.1						
12	A	6	1.1	-1.7	7	-1.0	4	0.625	6.000	8.000	0.375	0.0
		1	0.0	11.5	6	1.1						
12	B	6	2.5	-4.9	7	-2.2	4	0.625	6.000	8.000	0.375	0.0
		14	0.0	22.9	6	2.5						
12	C	9	3.0	-3.4	7	-2.7	4	0.625	6.000	8.000	0.375	0.0
		14	0.0	25.8	9	3.0						
12	D	10	3.0	-2.6	11	-2.7	4	0.625	6.000	8.000	0.375	0.0
		15	0.0	26.0	10	3.0						
12	E	10	2.5	-3.5	11	-2.2	4	0.625	6.000	8.000	0.375	0.0
		15	0.0	22.8	10	2.5						
12	F	13	1.1	-1.7	11	-1.0	4	0.625	6.000	8.000	0.375	0.0
		1	0.0	11.5	13	1.1						

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead		Collateral		Live		Snow		Wind_Left1		Wind_Right1	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2*	F	5.9	7.5	1.0	1.1	28.8	31.2	80.7	91.5	-18.2	-20.8	-11.7	-15.4
2*	A	-5.9	7.5	-1.0	1.1	-28.8	31.2	-80.7	91.5	11.7	-15.4	18.2	-20.8

Frame Line	Column Line	Wind_Left2		Wind_Right2		Wind_Long1		Wind_Long2		Seismic_Left		Seismic_Right	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2*	F	-11.9	-11.9	-5.3	-6.4	-13.1	-21.0	-14.4	-17.4	-2.4	-0.6	2.4	0.6
2*	A	5.3	-6.4	11.9	-11.9	14.4	-17.4	13.1	-21.0	-2.3	0.6	-2.3	-0.6

Frame Line	Column Line	Seismic_Long		-MIN_SNOW-		FIUNB_SL_L		FIUNB_SL_R	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2*	F	0.0	-4.6	19.3	20.0	68.4	83.8	68.4	83.8
2*	A	0.0	-4.6	-19.3	20.0	-68.4	83.8	-68.4	83.8

2*	Frame lines: 2 3 4 5 6 7 8 9 10 11											
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DRAWING STATUS

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REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK'D
A	8/13/18	FOR PERMIT	JGA	