

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

DSN. APR.	APR. DATE
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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.	PROJ.	PROJ.
1/2"	1 1/2"	HEAVY HEX NUT & WASHER	FOUNDATION
5/8"	2"	ANCHOR ROD ASTM-F1554-GR36	FOUNDATION GROUT
3/4"	2 1/2"	HEAVY HEX NUT	ANCHOR ROD ASTM-F1554-GR36
7/8"	3 1/2"	HEAVY HEX NUT	ANCHOR ROD ASTM-F1554-GR36
1"	3 1/2"	TACK WELD	ANCHOR ROD ASTM-F1554-GR36
1 1/4"	3 1/2"	NUT w/ GROUT	ANCHOR ROD ASTM-F1554-GR36

ANCHOR RODS (BY OTHERS)

Fred F. Radfar P.E.
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 Houston, TX 77063
 fred@radfar.com

North Carolina License #010295
 Exp. 12/31/2026

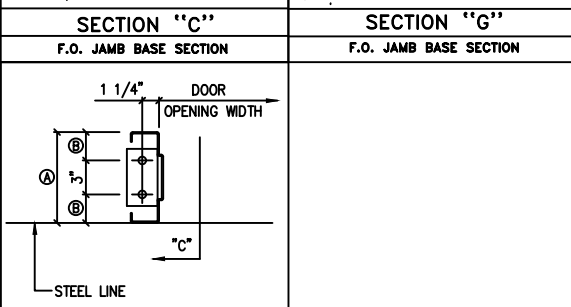
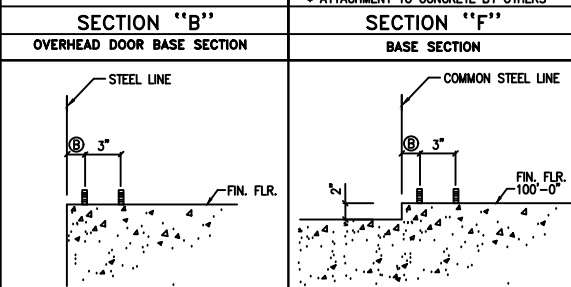
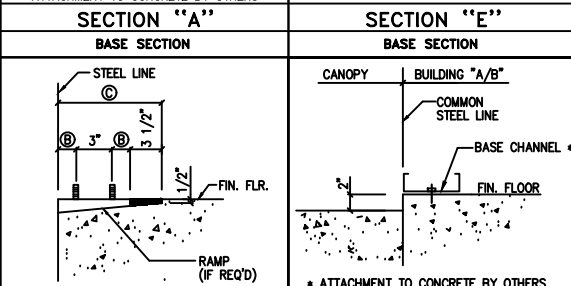
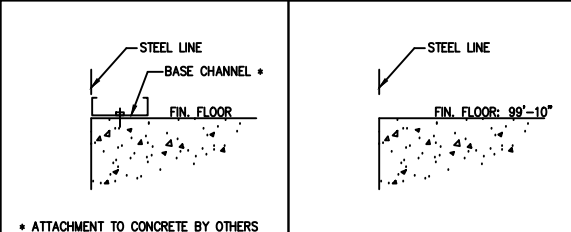
DRAWING STATUS

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- FOR CONSTRUCTION: FINAL DRAWINGS.

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CK'D
0	02/02/26	FOR CONSTRUCTION	RV	RVS
1	02/06/26	REVISED FOR CONSTRUCTION	CV	RVS

THESE DRAWINGS AND THE METAL BUILDING THEY REPRESENT ARE THE PRODUCT OF INLAND BUILDINGS - 2141 SECOND AVENUE S.W. CULLMAN, ALABAMA 35055 THE ENGINEER WHOSE SEAL APPEARS HEREON IS RETAINED BY INLAND BUILDINGS SYSTEMS AND IS NOT THE ENGINEER OF RECORD FOR THIS PROJECT.

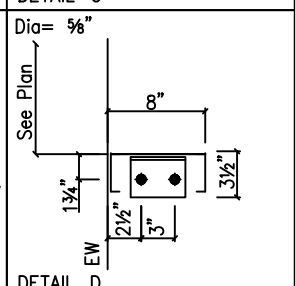
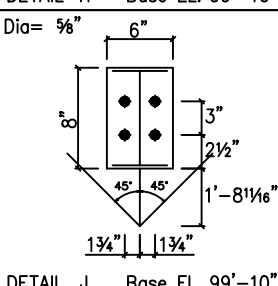
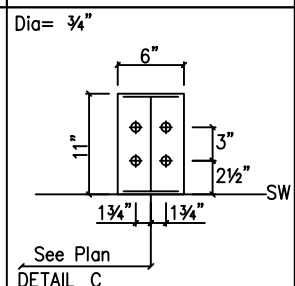
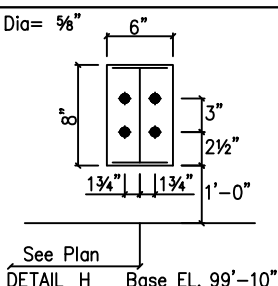
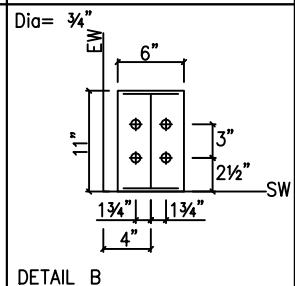
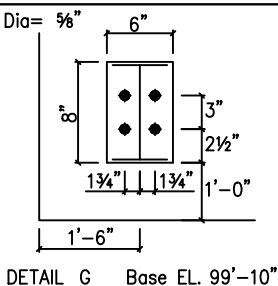
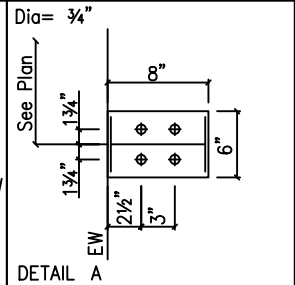
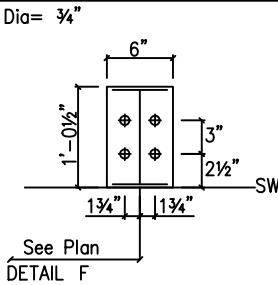
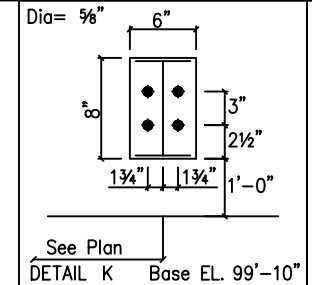
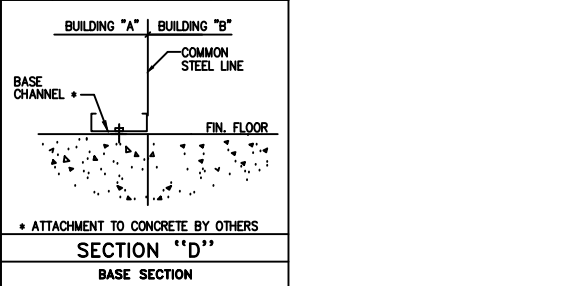
INLAND BUILDINGS		2141 SECOND AVENUE S.W. CULLMAN, AL 35055	
PHONE: 800.438.1606		FAX: 800.438.1626	
www.inlandbuildings.com			
DESCRIPTION	Anchor Rod Plan	SIZE	REFER TO C1
TOWER OR PROJECT	Jackson Office Building	CUSTOMER	MCPHAIL METAL STRUCTURES
JOB SITE LOCATION	308 SAINT MATTHEWS RD ERWIN, NC 28339	ADDRESS	1478 CARROLL STORE ROAD AUTRYVILLE, NC 28318
CAD BY	RV	ENGR BY	FR
DATE	1/29/26	SCALE	N.T.S.
JOB NO.	211470	PH	BLDG. DESC.
SHEET NO.	F1 of 4	ISSUE	



WALKDOOR BASE PLATE DETAIL

A. RODS 1/2" Ø BASE PL. THK. 1/4"

Grt Width	Walk Door Frame Dim. (A)	Dim. (B)	Ramp Width (C)
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"



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North Carolina License #010295
Exp. 12/31/2026

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FOR CONSTRUCTION: FINAL DRAWINGS.

REVISIONS

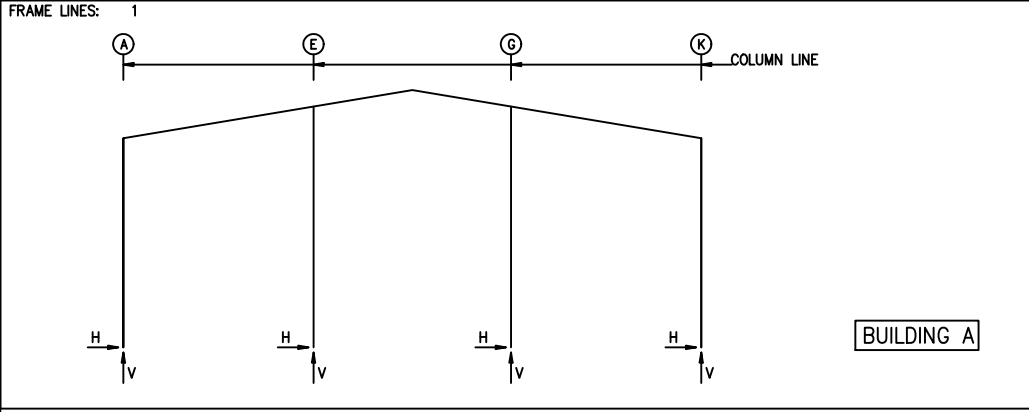
NO.	DATE	DESCRIPTION	BY	CK'D
0	02/02/26	FOR CONSTRUCTION	RV	RVS

INLAND BUILDINGS
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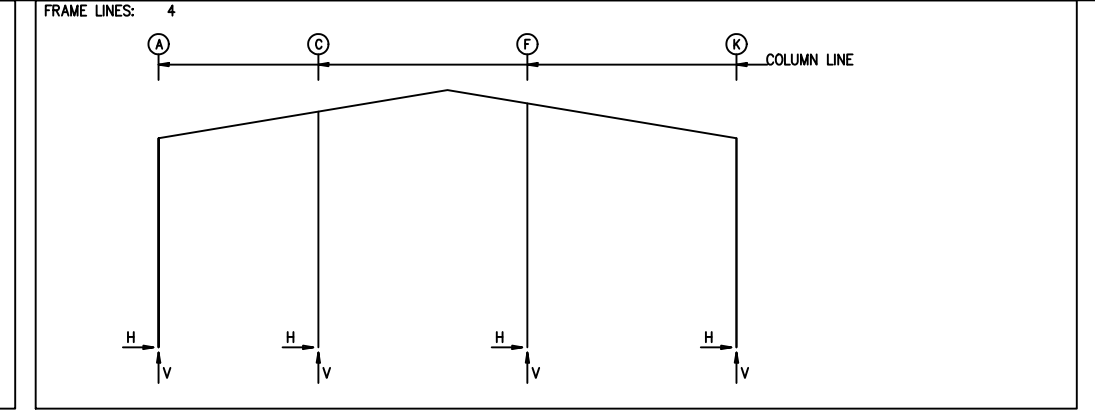
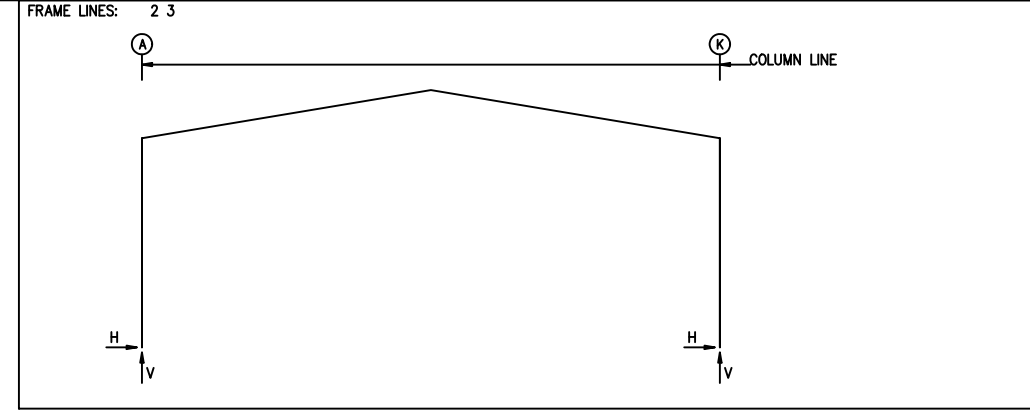
DESCRIPTION ANCHOR BOLT DETAILS SIZE REFER TO C1

TOWER OR PROJECT	Jackson Office Building	CUSTOMER	MCPHAIL METAL STRUCTURES
JOB SITE LOCATION	308 SAINT MATTHEWS RD	ADDRESS	1478 CARROLL STORE ROAD
ERWIN, NC 28339		AUTRYVILLE, NC 28318	

CAD BY	DATE	SCALE	JOB NO.	PH	BUILD. DESC.	SHEET NO.	ISSUE
RV	1/29/26	N.T.S.	211470			F2 of 4	0



BUILDING A



RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	---Dead---		---Collateral---		---Live---		---Snow---		---Wind_Left1---		---Wind_Right1---	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.0	0.5	0.0	0.5	0.1	1.3	0.0	0.6	-2.4	-4.9	2.5	-0.4
1	K	0.0	0.5	0.0	0.5	-0.1	1.3	0.0	0.6	-2.5	-4.9	2.4	-4.9
1	E	0.0	0.9	0.0	0.9	0.0	2.5	0.0	1.3	0.0	-3.2	0.0	-5.8
1	G	0.0	0.9	0.0	0.9	0.0	2.5	0.0	1.3	0.0	-5.8	0.0	-3.2

Frame Line	Column Line	---Wind_Left2---		---Wind_Right2---		---Wind_Press---		---Wind_Suct---		---Wind_Long1---		---Wind_Long2---	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	-3.1	-3.8	1.8	0.8	0.0	0.0	0.0	0.0	1.3	-2.2	1.0	-2.2
1	K	-1.8	0.8	3.1	-3.8	0.0	0.0	0.0	0.0	-1.0	-2.2	-1.3	-2.2
1	E	0.0	-1.8	0.0	-4.4	-3.9a	0.0	4.3a	0.0	0.0	-3.9	0.0	-1.6
1	G	0.0	-4.4	0.0	-1.8	-3.9a	0.0	4.3a	0.0	0.0	-1.6	0.0	-3.9

Frame Line	Column Line	---Seismic_Left---		---Seismic_Right---		---MIN_SNOW---		FIPAT_LL_1---		FIPAT_LL_2---		FIPAT_LL_3---	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	-0.2	0.3	0.2	0.3	0.1	0.9	0.0	0.9	0.0	0.9	-0.1	1.2
1	K	-0.2	0.3	0.2	-0.3	-0.1	0.9	0.0	-0.1	0.0	0.9	-0.1	1.2
1	E	0.0	0.4	0.0	-0.4	0.0	1.8	0.0	2.8	0.0	1.1	0.0	1.1
1	G	0.0	-0.4	0.0	0.4	0.0	1.8	0.0	1.1	0.0	2.8	0.0	1.1

Frame Line	Column Line	FIPAT_LL_4---		F1UNB_SL_1---		F1UNB_SL_R---	
		Horz	Vert	Horz	Vert	Horz	Vert
1	A	0.0	-0.2	0.0	0.6	0.0	0.2
1	K	0.0	-0.2	0.0	0.2	0.0	0.6
1	E	0.0	1.4	0.0	1.7	0.0	0.6
1	G	0.0	0.0	0.0	0.6	0.0	1.7

Frame Line	Column Line	---Dead---		---Collateral---		---Live---		---Snow---		---Wind_Left1---		---Wind_Right1---	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
2*	A	0.5	1.8	0.8	2.3	1.9	5.6	1.1	3.2	-5.9	-11.8	0.4	-7.3
2*	K	-0.5	1.8	-0.8	2.3	-1.9	5.6	-1.1	3.2	-0.4	-7.3	5.9	-11.8

Frame Line	Column Line	---Wind_Left2---		---Wind_Right2---		---Wind_Long1---		---Wind_Long2---		---Seismic_Left---		---Seismic_Right---	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
2*	A	-5.8	-7.5	0.5	-3.0	-0.1	-14.4	-0.8	-13.0	-0.3	-0.2	0.3	0.2
2*	K	-0.5	-3.0	5.8	-7.5	0.8	-14.4	0.1	-14.4	-0.3	-0.2	0.3	-0.2

Frame Line	Column Line	---Seismic_Long1---		---Seismic_Long2---		---MIN_SNOW---		F2UNB_SL_1---		F2UNB_SL_R---	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
2*	A	0.0	1.0	0.0	1.0	1.6	4.6	1.0	3.2	1.0	1.9
2*	K	0.0	-1.0	0.0	1.0	-1.6	4.6	-1.0	3.2	-1.0	3.2

Frame Line	Column Line	---Dead---		---Collateral---		---Live---		---Snow---		---Snow_Drift---		---Slide_Snow---	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
4	A	0.0	0.5	0.0	0.4	0.1	1.1	0.0	0.5	0.0	0.0	0.0	0.0
4	K	0.0	0.9	0.0	1.0	-0.1	3.5	0.0	1.4	0.0	0.9	0.0	0.0
4	C	0.0	1.3	0.0	1.6	-0.1a	5.2	-0.1a	2.7	0.0	1.1	0.0	0.1
4	F	0.0	1.6	0.0	1.8	-0.1a	6.0	-0.1a	2.5	-0.1a	1.7	0.0	0.0

Frame Line	Column Line	---Wind_Left1---		---Wind_Right1---		---Wind_Left2---		---Wind_Right2---		---Wind_Press---		---Wind_Suct---	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
4	A	-2.4	-4.8	2.6	0.3	-3.1	-3.8	1.9	1.3	0.0	0.0	0.0	0.0
4	K	-2.5	-2.5	2.3	-8.2	-1.8	-0.3	3.0	-6.0	0.0	0.0	3.4a	0.0
4	C	0.1a	-5.8	0.1a	-7.5	0.0	-3.6	0.1a	-5.3	-3.0a	0.0	3.4a	0.0
4	F	0.1a	-10.0	0.1a	-7.7	0.1a	-7.2	0.1a	-4.9	-4.2a	0.0	4.6a	0.0

Frame Line	Column Line	---Wind_Long1---		---Wind_Long2---		---Seismic_Left---		---Seismic_Right---		---Seismic_Long1---		---Seismic_Long2---	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
4	A	1.4	-7.1	1.0	-7.4	-0.2	-0.4	0.2	0.4	0.0	-1.0	0.0	1.0
4	K	-1.0	-9.2	-1.3	-10.5	-0.2	0.3	0.2	-0.2	0.0	-1.0	0.0	1.0
4	C	0.1a	-6.6	0.1a	-3.1	0.0	0.5	0.0	-0.4	0.0	0.0	0.0	0.0
4	F	0.1a	-5.6	0.1a	-7.5	0.0	-0.4	0.0	0.3	0.0	0.0	0.0	0.0

Frame Line	Column Line	---MIN_SNOW---		F3PAT_LL_1---		F3PAT_LL_2---		F3PAT_LL_3---		F3PAT_LL_4---		F3UNB_SL_1---	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
4	A	0.1	0.8	0.0	0.7	0.0	-0.1	0.1	1.1	0.0	-0.3	0.0	0.4
4	K	-0.1	1.0	0.0	-0.1	0.0	1.0	-0.1	1.3	0.0	-0.2	0.0	0.1
4	C	0.0	1.6	0.0	2.7	0.0	1.2	0.0	0.7	0.0	1.5	0.0	1.7
4	F	0.0	2.0	0.0	1.3	0.0	3.0	0.0	1.4	0.0	1.4	0.0	0.9

Frame Line	Column Line	F3UNB_SL_R---	
		Horz	Vert
4	A	0.0	0.2
4	K	0.0	0.6
4	C	0.0	0.4
4	F	0.0	1.8

2* Frame lines: 2 3
a - Out-Of-Plane Horizontal Load

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead	Wind Press	Wind Suct	Seis Long	Seis Vert
4	B	0.2	-1.4	1.6	0.0	0.0

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

Frm Line	Col Line	Column_Reactions(k)						Bolt(in) Qty	Dia	Base_Plate(in)			Grout (in)
		Load Id	Hmax	V	Vmax	Load Id	Hmin			V	Width	Length	
4	B	20	0.9	0.1	24	-0.9	0.1	4	0.750	6.000	8.000	0.375	0.0
		27	0.7	0.2									

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

Frm Line	Col Line	Column_Reactions(k)						Bolt(in) Qty	Dia	Base_Plate(in)			Grout (in)
		Load Id	Hmax	V	Vmax	Load Id	Hmin			V	Width	Length	
1	A	3	1.5	0.3	13	-1.8	-1.9	4	0.750	6.000	11.00	0.500	0.0
		6	0.9	2.3	11	-1.4	-2.6						
1	K	14	1.8	-1.9	2	-1.5	0.3	4	0.750	6.000	11.00	0.500	0.0
		5	-0.9	2.3	12	1.4	-2.6						
1	E	10	2.5	-0.9	4	-2.4	-3.0	4	0.750	6.000	8.000	0.500	0.0
		17	0.0	4.6	12	0.0	-2.9						
1	G	9	2.5	-0.9	5	-2.4	-3.0	4	0.750	6.000	8.000	0.500	0.0
		18	0.0	4.6	11	0.0	-2.9						

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

Frm Line	Col Line	Column_Reactions(k)						Bolt(in) Qty	Dia	Base_Plate(in)			Grout (in)
		Load Id	Hmax	V	Vmax	Load Id	Hmin			V	Width	Length	
2*	A	1	3.3	9.7	11	-3.2	-6.0	4	0.750	6.000	11.00	0.500	0.0
					15	0.2	-7.6						
2*	K	12	3.2	-6.0	1	-3.3	9.7	4	0.750	6.000	11.00	0.500	0.0
		1	-3.3	9.7	16	-0.2	-7.6						

2* Frame lines: 2 3

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

Frm Line	Col Line	Column_Reactions(k)						Bolt(in) Qty	Dia	Base_Plate(in)			Grout (in)
		Load Id	Hmax	V	Vmax	Load Id	Hmin			V	Width	Length	
4	A	3	1.6	0.6	13	-1.8	-2.0	4	0.750	6.000	11.00	0.500	0.0
		7	0.7	3.2	16	0.6	-4.1						
4	K	14	1.8	-3.0	2	-1.5	-0.6	4	0.750	6.000	11.00	0.500	0.0
		1	-0.1	5.4	16	-0.8	-5.7						
4	C	9	2.0	-2.7	8	-1.9	-3.7	4	0.750	6.000	8.000	0.500	0.0
		1	0.0	8.0	12	0.0	-3.7						
4	F	19	2.8	-4.3	7	-2.5	-4.9	4	0.750	6.000	8.000	0.500	0.0
		1	0.0	9.4	11	0.0	-5.1						

NOTES FOR REACTIONS

Building reactions are based on the following building data:

- Width (ft) = 49.8
- Length (ft) = 52.2
- Eave Height (ft) = 18.0 / 18.0
- Roof Slope (rise/12) = 2.00 / 2.00
- Roof Dead Load (psf) = 2.5
- Wall Dead Load (psf) = 2.0
- Left Endwall (psf) = 2.0
- Right Endwall (psf) = 2.0
- Front Sidewall (psf) = 2.0
- Back Sidewall (psf) = 2.0
- Roof Live Load (psf) = 20.0
- Frame Live Load (psf) = 13.8
- Min (psf) = 14.0
- Max (psf) = 5.0
- Collateral Load (psf) = 7.0
- Snow Load (psf) = 10.0
- Minimum Snow (psf) = 10.0
- Wind Speed (mph) = 120.0
- Wind Code = NCBC 18
- Exposure = C
- Closure = Enclosed
- Internal Wind Coeff = -0.18, +0.18
- Risk Category = II - Normal
- Importance - Wind = N/A
- Importance - Seismic = 1.00
- Seismic Design Category = C
- Seismic Coeff (Sms) = 0.30

ID	Description
1	Dead+Collateral+Live
2	Dead+0.6Wind_Left1
3	Dead+0.6Wind_Right1
4	Dead+Collateral+0.75Live+0.45Wind_Right1
5	Dead+Collateral+0.75Live+0.45Wind_Left1
6	Dead+Collateral+0.75Live+0.45Wind_Right2
7	Dead+Collateral+0.75Live+0.45Wind_Long1R
8	Dead+Collateral+0.75Live+0.45Wind_Long2L
9	Dead+Collateral+0.75Live+0.45Wind_Long2R
10	Dead+Collateral+0.75Snow+0.45Wind_Left1
11	0.6Dead+0.6Wind_Left1
12	0.6Dead+0.6Wind_Right1
13	0.6Dead+0.6Wind_Left2
14	0.6Dead+0.

