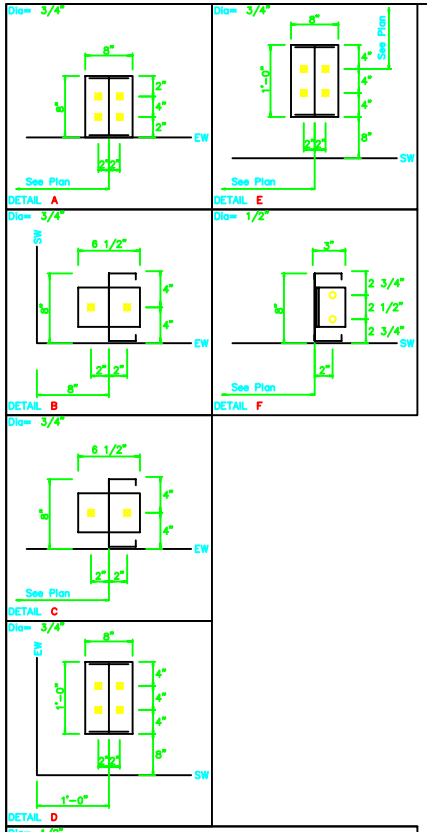

DETAIL AT FIELD LOCATED OPENINGS

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Wind Press Horz	Wind Suct Horz
1	C	0.1	−1.9	2.2
1	B	0.1	−1.9	2.2

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind Press Horz
5	A	0.2	0.1	1.3	1.0	0.0	−2.1	0.0	−1.3	0.0	−1.4	0.0	−0.5	−1.0
5	B	0.6	0.2	3.8	2.9	1.1	−6.6	0.0	−3.0	1.1	−4.7	0.0	−1.1	−2.1
5	C	0.6	0.2	3.8	2.9	0.0	−3.0	1.1	−6.6	0.0	−1.1	1.1	−4.7	−2.1
5	D	0.2	0.1	1.3	1.0	0.0	−1.3	0.0	−2.1	0.0	−0.5	0.0	−1.4	−1.0

Frm Line	Col Line	Wind Suct Horz	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seis_Left Horz	Seis_Left Vert	Seis_Right Horz	Seis_Right Vert	—MIN_SNOW— Horz	—MIN_SNOW— Vert	E2UNB_SL_L— Horz	E2UNB_SL_L— Vert
5	A	1.1	0.0	−2.2	0.0	−1.2	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.0
5	B	2.3	0.0	−5.7	0.3	−3.8	0.2	−0.1	0.0	0.1	0.0	3.8	0.0	3.7
5	C	2.3	0.3	−3.8	0.0	−5.7	0.0	0.1	0.2	−0.1	0.0	3.8	0.0	1.2
5	D	1.1	0.0	−1.2	0.0	−2.2	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.2

Frm Line	Col Line	E2UNB_SL_R— Horz	E2UNB_SL_R— Vert
5	A	0.0	0.2
5	B	0.0	1.2
5	C	0.0	3.7
5	D	0.0	1.0

ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc._Bolt Qty	Anc._Bolt Dia	Base_Plate (in) Width	Base_Plate (in) Length	Base_Plate (in) Thick	Base EL. (in)
1	C	4	0.750	8.000	8.000	0.500	0.0
1	B	4	0.750	8.000	8.000	0.500	0.0
5	A	2	0.750	6.500	6.000	0.188	0.0
5	B	2	0.750	6.500	6.000	0.188	0.0
5	C	2	0.750	6.500	6.000	0.188	0.0
5	D	2	0.750	6.500	6.000	0.188	0.0

BUILDING BRACING REACTIONS

Loc	Wall Line	Col Line	± Reactions(k) —Wind— Horz	Wind Vert	—Seismic— Horz	Seismic Vert	Panel Shear (lb/ft) Wind	Panel Shear (lb/ft) Sels	Note
L_EW	1								(h)
F_SW	A	3,4	5.3	2.2	0.8	0.3			
R_EW	5	B,C	1.1	0.6	0.2	0.1			
B_SW	D	4,3	5.3	2.2	0.8	0.3			

(h)Rigid frame at endwall

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	=	50
Length (ft)	=	80
Eave Height (ft)	=	10 / 10
Roof Slope	=	1.0:12 / 1.0:12
Dead Load (psf)	=	2.200
Collateral Load (psf)	=	1
Roof Live Load (psf)	=	20.00
Roof Snow Load (psf)	=	13.4
Min. Snow Load (psf)	=	20.00
Rain on Snow Load (psf)	=	0.00
Wind Speed(mph)	=	125
Service Wind Speed(mph)	=	77.0
Wind Code	=	NJBC 2015
Wind Exposure	=	C
Closed/Open	=	Closed
Importance – Seismic	=	1.00
Seismic Design Category	=	B
Seismic Coeff (Fa*Ss)	=	0.245
Snow Drift Loads	=	17.11 psf and 8.245 ft

Load Combinations

DL+CL+(LL or SL)
DL+CL+0.6WL
DL+CL+0.75(0.6)WL+0.75(LL or SL)
DL+0.75(0.75ESl)+0.75(LL or SL)
0.6DL+0.6WL
0.6DL+0.75ESl

GENERAL NOTES

1. FOUNDATION DESIGN AND CONSTRUCTION ARE NOT THE RESPONSIBILITY OF THE BUILDING MANUFACTURER.
2. THE BUILDING REACTION DATA REPORTS THE LOADS WHICH THIS BUILDING PLACES ON THE FOUNDATION.
3. THE SPECIFIED ANCHOR BOLT DIAMETER ASSUMES ASTM A307. ANCHOR BOLT MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER.
4. ANCHOR BOLTS TO BE SUPPLIED BY OTHERS. ANCHOR BOLT EMBEDMENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION ENGINEER.
5. ANCHOR BOLT PROJECTION ABOVE CONCRETE FINISHED SURFACE TO BE 3" UNLESS OTHERWISE NOTED BY FOUNDATION DESIGNER.
6. ANCHOR BOLTS SHALL BE ACCURATELY SET TO A TOLERANCE OF +/- 1/8" IN ELEVATION AND LOCATION. RIGID FRAME BASE PLATES ARE PROVIDED WITH OVERSIZED HOLES PER TABLE 14-2 IN THE AISC STEEL CONSTRUCTION MANUAL. APPLICABLE WASHER SIZE TO BE DETERMINED BY FOUNDATION ENGINEER.
7. THE ANCHOR BOLT LOCATIONS PROVIDED BY THE METAL BUILDING MANUFACTURER MAY NOT SATISFY ANCHOR BOLT CONCRETE EDGE DISTANCE REQUIREMENTS DEPENDING ON THE DETAILS OF FOUNDATION DESIGN. IT IS THE RESPONSIBILITY OF THE FOUNDATION DESIGN ENGINEER TO MAKE SURE THAT SUFFICIENT CONCRETE EDGE DISTANCE IS PROVIDED IN THE FOUNDATION DESIGN.
8. MINOR FIELD WORK OF STRUCTURAL, SECONDARY AND PANEL/TRIM ITEMS MAY BE NECESSARY TO ENSURE PROPER FIT. SUCH WORK IS CONSIDERED A NORMAL PART OF METAL BUILDING ERECTION. WE WILL NOT HONOR BACKCHARGES FOR MINOR FIELD WORK.
9. THIS DRAWING IS NOT TO SCALE.

FRAME LINES: 1 2 3 4

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc._Bolt Qty	Anc._Bolt Dia	Base_Plate (in) Width	Base_Plate (in) Length	Base_Plate (in) Thick	Base EL. (in)
1	D	4	0.750	8.000	12.00	0.500	0.0
1	A	4	0.750	8.000	12.00	0.500	0.0

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc._Bolt Qty	Anc._Bolt Dia	Base_Plate (in) Width	Base_Plate (in) Length	Base_Plate (in) Thick	Base EL. (in)
2*	D	4	0.750	8.000	12.00	0.500	0.0
2*	A	4	0.750	8.000	12.00	0.500	0.0

2* Frame lines: 2 3 4

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	—Snow_Drift— Horiz	—Snow_Drift— Vert	—Wind_Left1— Horiz	—Wind_Left1— Vert
2*	D	1.2	1.6	0.4	0.5	8.2	10.0	6.3	7.7	0.1	0.2	−9.8	−11.8
2*	A	−1.2	1.6	−0.4	0.5	−8.2	10.0	−6.3	7.7	−0.1	0.2	6.2	−8.7

Frame Line	Column Line	—Wind_Right1— Horiz	—Wind_Right1— Vert	—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
2*	D	−8.2	−8.7	−8.8	−6.6	−3.0	−3.5	−8.4	−13.6	−8.8	−11.3	−0.2	−0.1
2*	A	9.8	−11.8	3.0	−3.5	6.6	−6.6	6.8	−11.3	6.4	−13.6	−0.2	0.1

Frame Line	Column Line	Seismic_Right Horiz	Seismic_Right Vert	—Seismic_Long Horiz	—Seismic_Long Vert	—MIN_SNOW— Horiz	—MIN_SNOW— Vert	F1UNB_SL_L— Horiz	F1UNB_SL_L— Vert	F1UNB_SL_R— Horiz	F1UNB_SL_R— Vert
2*	D	0.2	0.1	0.0	−0.3	8.2	10.0	5.2	7.6	5.2	4.3
2*	A	0.2	−0.1	0.0	−0.3	−8.2	10.0	−5.2	4.3	−5.2	7.6

Frame Line	Column Line	—Dead— Horiz	—Dead— Vert	—Collateral— Horiz	—Collateral— Vert	—Live— Horiz	—Live— Vert	—Snow— Horiz	—Snow— Vert	—Snow_Drift— Horiz	—Snow_Drift— Vert	—Wind_Left1— Horiz	—Wind_Left1— Vert
1	D	0.6	1.0	0.2	0.3	3.7	5.3	2.8	4.0	1.1	1.6	−5.7	−7.8
1	A	−0.6	1.0	−0.2	0.3	−3.7	5.2	−2.8	4.0	−1.1	1.6	3.3	−5.5

Frame Line	Column Line	—Wind_Right1— Horiz	—Wind_Right1— Vert	—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
1	D	−3.3	−5.5	−4.4	−5.1	−1.9	−2.8	−2.7	−8.0	−2.9	−4.8	−0.1	0.0
1	A	5.7	−7.8	1.9	−2.8	4.4	−5.1	2.8	−4.8	2.7	−8.0	−0.1	0.0

Frame Line	Column Line	Seismic_Right Horiz	Seismic_Right Vert	—MIN_SNOW— Horiz	—MIN_SNOW— Vert	F2UNB_SL_L— Horiz	F2UNB_SL_L— Vert	F2UNB_SL_R— Horiz	F2UNB_SL_R— Vert
1	D	0.1	0.0	3.7	5.3	2.3	4.0	2.3	2.3
1	A	0.1	0.0	−3.7	5.3	−2.3	2.3	−2.3	4.0

2* Frame lines: 2 3 4

OLYMPIA STEEL BUILDINGS		Customer: JONRIE HOLDINGS LLC	
City: McKEES ROCKS	State:PA	Location: 1 BOLTON LANE MANAHAWKIN, NJ 08050	
Designer: DAZ	Date: 10/11/18		
Drafter: TMS	Date: 10/15/18	Revision No:	Date: / Init.
Detailer:	Date:	Office:	Job No.: 20751
Checker:	Date:	Office:	
ANCHOR BOLT DETAILS & REACTIONS		Sht. E2 of 14	