

**NOTES FOR REACTIONS**

BUILDING REACTIONS ARE BASED ON THE FOLLOWING BUILDING DATA:

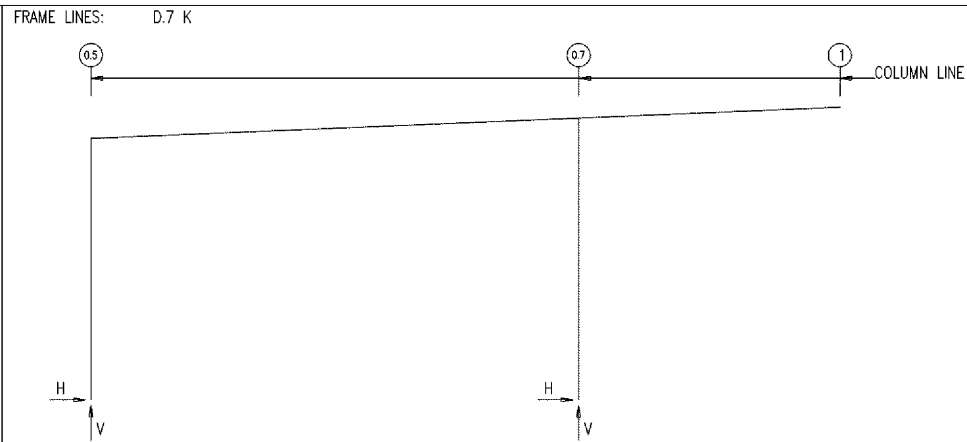
WIDTH (FT)	= 28.67
LENGTH (FT)	= 28
EAVE HEIGHT (FT)	= 10 / 11.19
ROOF SLOPE (rise/12)	= 0.4993:12 /
DEAD LOAD (psf)	= 2.800
COLLATERAL LOAD (psf)	= 1
ROOF LIVE LOAD (psf)	= 20.00
FRAME LIVE LOAD (psf)	= 15.97
ROOF SNOW LOAD (psf)	= 7
GROUND SNOW LOAD (psf)	= 10.00
WIND SPEED (MPH)	= 115
WIND CODE	= IBC 18
EXPOSURE	= C
CLOSED/OPEN	= Closed
IMPORTANCE - WIND	= 1.00
IMPORTANCE - SEISMIC	= 1.00
SEISMIC ZONE	= C

**REACTION KEY:**

WIND Left/Right 1 = (with +GCpi Internal Pressure)  
 WIND Left/Right 2 = (with -GCpi Internal Pressure)  
 Wind\_Long 1 = Wind Load Case B at Left EW  
 Wind\_Long 2 = Wind Load Case B at Right EW  
 MIN\_SNOW = Minimum Snow (Pm) per code  
 E#UNB\_SL\_L = Endwall Unbalanced Snow Left  
 E#UNB\_SL\_R = Endwall Unbalanced Snow Right  
 F#UNB\_SL\_L = Rigid Frame Unbalanced Snow Left  
 F#UNB\_SL\_R = Rigid Frame Unbalanced Snow Right

**GENERAL NOTES**

- THE REACTIONS PROVIDED ARE BASED ON THE ORDER DOCUMENTS AT THE TIME OF MAILING. ANY CHANGES TO BUILDING LOADS OR DIMENSIONS MAY CHANGE THE REACTIONS. THE REACTIONS WILL BE SUPERSEDED AND VOIDED BY ANY FUTURE MAILING.
- REACTIONS ARE PROVIDED AS UN-FACTORED FOR EACH LOAD GROUP APPLIED TO THE COLUMN. THE FOUNDATION ENGINEER WILL APPLY THE APPROPRIATE LOAD FACTORS AND COMBINE THE REACTIONS IN ACCORDANCE WITH THE BUILDING CODE AND DESIGN SPECIFICATIONS TO DETERMINE BEARING PRESSURES AND CONCRETE DESIGN. THE FACTORS APPLIED TO LOAD GROUPS FOR THE STEEL COLUMN DESIGN MAY BE DIFFERENT THAN THE FACTORS USED IN THE FOUNDATION DESIGN.
- THE MANUFACTURER DOES NOT PROVIDE "MAXIMUM" LOAD COMBINATION REACTIONS. HOWEVER, THE INDIVIDUAL LOAD REACTIONS PROVIDED MAY BE USED BY THE FOUNDATION ENGINEER TO DETERMINE THE APPLICABLE LOAD COMBINATIONS FOR HIS/HER DESIGN PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDATION DESIGN.
- THE METAL BUILDING MANUFACTURER IS RESPONSIBLE FOR THE DESIGN OF THE ANCHOR BOLT DIAMETER ONLY TO PERMIT THE TRANSFER OF FORCES BETWEEN THE BASE PLATE AND THE ANCHOR BOLT IN SHEAR, BEARING AND TENSION, BUT IS NOT RESPONSIBLE FOR THE ANCHOR BOLT EMBEDMENT FOR TRANSFER OF FORCES TO THE FOUNDATION. THE METAL BUILDING MANUFACTURER DOES NOT DESIGN AND IS NOT RESPONSIBLE FOR THE DESIGN, MATERIAL AND CONSTRUCTION OF THE FOUNDATION EMBEDMENTS. THE END USE CUSTOMER SHOULD ASSURE HIMSELF THAT ADEQUATE PROVISIONS ARE MADE IN THE FOUNDATION DESIGN FOR LOADS IMPOSED BY COLUMN REACTIONS OF THE BUILDING, OTHER IMPOSED LOADS, AND BEARING CAPACITY OF THE SOIL AND OTHER CONDITIONS OF THE BUILDING SITE. IT IS RECOMMENDED THAT THE ANCHORAGE AND FOUNDATION OF THE BUILDING BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER EXPERIENCED IN THE DESIGN OF SUCH STRUCTURES, (SECTION A3 MBMA 2006 METAL BUILDING SYSTEMS MANUAL).
- BOTTOM OF ALL BASE PLATES ARE AT THE SAME ELEVATION. (UNLESS NOTED)
- ANCHOR RODS ARE ASTM F1554 GRADE 36 MATERIAL UNLESS NOTED OTHERWISE.



**RIGID FRAME: ANCHOR BOLTS & BASE PLATES**

Frm Line	Col Line	Anc. Bolt Qty	Anc. Bolt Dia	Base Plate (in) Width	Base Plate (in) Length	Thick	Grout (in)
D.7*	0.5	4	0.750	6.000	8.500	0.375	0.0
D.7*	0.7	4	0.625	6.000	8.000	0.375	0.0

D.7\* Frame lines: D.7 K

**RIGID FRAME: BASIC COLUMN REACTIONS (k )**

Frame Line	Column Line	Dead	Collateral	Live	Snow	Snow_Drift	Wind_Left1
D.7*	0.5	0.0	0.5	0.1	0.0	0.0	-0.5
D.7*	0.7	0.0	1.0	0.3	0.0	1.8	-6.3

Frame Line	Column Line	Wind_Right1	Wind_Left2	Wind_Right2	Wind_Long1	Wind_Long2	MIN_SNOW
D.7*	0.5	0.7	-1.6	-1.0	-1.7	0.8	0.0
D.7*	0.7	0.0	-3.8	0.0	-4.1	0.0	2.6

Frame Line	Column Line	F1PAT_SL_1	F1PAT_SL_2	F1PAT_LL_3	F1PAT_LL_4
D.7*	0.5	0.0	0.4	0.0	0.1
D.7*	0.7	0.0	0.6	0.0	0.3

D.7\* Frame lines: D.K

**ENDWALL COLUMN: BASIC COLUMN REACTIONS (k )**

Frm Line	Col Line	Wind Press	Wind Suct	MIN_SNOW	E1PAT_SL_1	E1PAT_SL_2
D.7	0.7	-1.3	1.5	0.0	2.7	0.0

Frm Line	Col Line	Wind Press	Wind Suct	MIN_SNOW	E2PAT_SL_1	E2PAT_SL_2
K	0.7	-1.3	1.5	0.0	2.7	0.0

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

Frm Line	Col Line	Anc. Bolt Qty	Anc. Bolt Dia	Base Plate (in) Width	Base Plate (in) Length	Thick	Grout (in)
D.7	0.7	4	0.625	6.000	8.000	0.375	0.0
K	0.7	4	0.625	6.000	8.000	0.375	0.0

**BUILDING BRACING REACTIONS**

Wall Line	Col Line	Reactions in plane of wall ± Reactions(k)	Panel Shear (lb/ft)
L_EW	D.7	Wind Horz, Vert; Seismic Horz, Vert	Wind, Seis
F_SW	1		
R_EW	K		
B_SW	0.5	Torsional Bracing Used	

**ANCHOR BOLT SUMMARY**

Qty	Locate	Dia (in)	Type	Pr (in)
8	Endwall	5/8"	F 54	2.00
8	Frame	3/4"	F 54	2.50

(f)Bracing loads are applied to adjacent building  
 (h)Rigid frame at endwall

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BUILDING-C

Rev	Date	Description
0	05/22/20	FOR ERECTOR INSTALLATION

**MESCO Building Solutions**  
 5244 Bear Creek Court  
 Irving, TX 75061  
 Voice 214-667-9999 Fax 214-667-9757

**Customer:**  
 CROSS DEVELOPMENT LLC  
 4386 MARSH RIDGE RD  
 CARROLLTON, TX 75010-4447 US  
 MEAGAN WEREN

**Project Name & Location:**  
 CC FIVE FORKS SC  
 CROSS DEVELOPMENT  
 1215 E BUTLER RD  
 GREENVILLE, SC 29607-9911 US

**Drawing Status:**  
 Preliminary (Not For Construction)  
 For Approval (Not For Construction)  
 For Erector Installation

Scale: NOT TO SCALE  
 Drawn by: BNS 05/22/20  
 Checked by: PNR 05/22/20  
 Project Engineer: SH  
 Job Number: 17-B-60327  
 Sheet Number: F4

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Drawing has been digitally signed.

Jason Speagle  
 May 26, 2020

