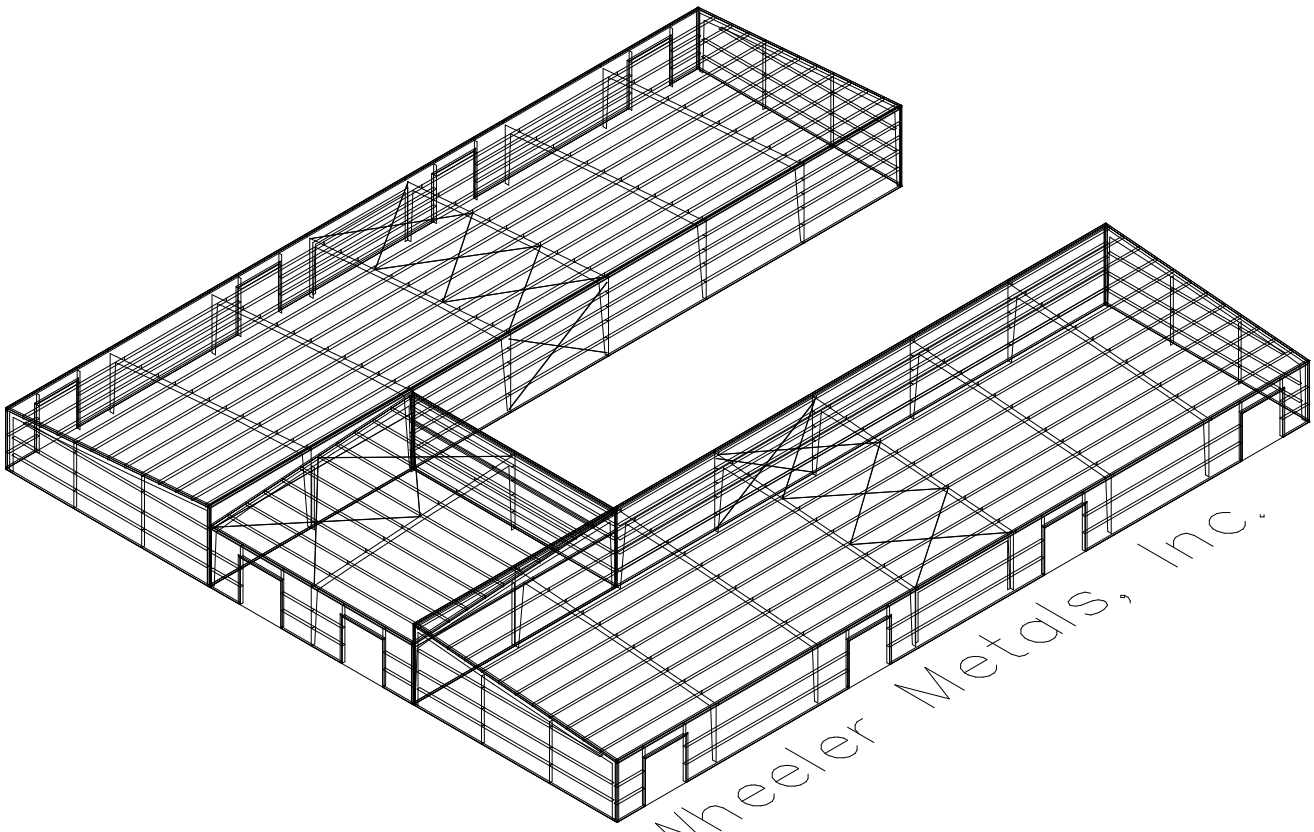


WHEELER METALS

# STEEL BUILDINGS

3100 West 40th. Street North
Muskogee, Oklahoma 74401

## BUILDING LOADS / DESCRIPTION:

WIDTH: 50 LENGTH: 170 HEIGHT: 13 /17.17
(BUILDING DIMENSIONS ARE NOMINAL. REFER TO PLANS).

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY : IBC 15 / AISC10 / NAUS12 .

THE CONTRACTOR IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

| | | |
|---|---|---|
| ROOF DEAD LOAD: | 2.000 | PSF (ROOF PANELS & PURLINS) |
| COLLATERAL LOAD: | 0 | PSF |
| ROOF LIVE LOAD: PRIMARY: | 20.00 | PSF |
| SECONDARY: | 20 | PSF |
| GROUND SNOW LOAD: | 15 | PSF |
| ROOF SNOW LOAD: | 10.5 | PSF |
| DESIGN WIND SPEED: | 115 | MPH |
| SEISMIC ZONE: | C | |
| WIND EXPOSURE: | C | |

IMPORTANCE FACTORS:

| | | |
|---|---|---|
| WIND LOAD: | ___ | 1.00 |
| SNOW LOAD | ___ | 1.0000 |
| SEISMIC LOAD | ___ | 1.00 |

## ROOF PANELS:

COLOR: Ash Gray

## WALL PANELS:

COLOR: Burnished Slate

## TRIM COLORS:

GABLE: Burnished Slate
CORNER: Burnished Slate
EAVE: Burnished Slate
FRAMED OPENINGS: Burnished Slate

## DEFLECTION LIMITS:

| | |
|---|---|
| EW COL: | 90 |
| EW RAF LIVE: | 180 |
| EW RAF WIND: | 150 |
| WALL GIRT: | 90 |
| PURL LIVE: | 150 |
| PURL WIND: | 120 |
| WALL PANEL: | 90 |
| ROOF PANEL LIVE: | 150 |
| ROOF PANEL WIND: | 120 |
| RF HORIZONTAL: | 60 |
| RF VERTICAL: | 180 |
| WIND BENT: | 60 |
| RF CRANE: | 100 |
| RF SEIS: | 50 |
| WIND BENT SEIS: | 50 |

GENERAL NOTES:

1) MATERIALS :

| | | |
|---|---|---|
| | MINIMUM YIELD: | |
| HOT ROLLED BAR | Fy = | 50.0000 ksi MIN. |
| STRUCTURAL STEEL SHEET | Fy = | 50.0000 ksi MIN. |
| STRUCTURAL STEEL PLATE | Fy = | 50.0000 ksi MIN. |
| COLD FORMED SHAPES | Fy = | 57.0000 ksi MIN. |
| WALL SHEETING | Fy = | 80.0000 ksi MIN. |
| ROOF SHEETING | Fy = | 80.0000 ksi MIN. |
| BOLTS | A307 & A325 | |

THE METAL BUILDING MANUFACTURER RESERVES THE RIGHT TO SUBSTITUTE THE ABOVE MATERIALS WITH EQUAL OR BETTER MATERIAL.

2) BOLT TIGHTENING REQUIREMENTS:
ALL HIGH STRENGTH BOLTS ARE A325 UNLESS NOTED OTHERWISE.
HIGH STRENGTH BOLTS SHALL BE TIGHTENED BY THE TURN OF THE NUT METHOD IN ACCORDANCE WITH THE LATEST EDITION AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". A325 BOLTS SHALL BE INSTALLED WITH OUT WASHERS WHEN TIGHTENED BY THE "TURN OF THE NUT" METHOD. ALL BOLTED CONNECTIONS, FOR SHEAR/BEARING CONNECTION TYPE WITH BOLT THREADS EXCLUDED FROM THE SHEAR PLANE SHALL BE SNUG TIGHT ONLY.

3) ALL STRUCTURAL STEEL TO RECEIVE A RUST INHIBITIVE PRIMER. THIS PAINT IS NOT INTENDED FOR LONG TERM EXPOSURE TO THE ELEMENTS.

## BUILDER / CONTRACTOR RESPONSIBILITIES

IT IS THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR TO INSURE THAT ALL PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. THE SUPPLYING OF SEALED ENGINEERING DATA AND DRAWINGS FOR THE METAL BUILDING SYSTEM DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT THE METAL BUILDING SYSTEM MANUFACTURER OR ITS DESIGN ENGINEER IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR A CONSTRUCTION PROJECT.
THE CONTRACTOR MUST SECURE ALL REQUIRED APPROVALS AND PERMITS FROM THE APPROPRIATE AGENCY AS REQUIRED.
APPROVAL OF THE METAL BUILDING SYSTEM MANUFACTURER'S DRAWINGS AND CALCULATIONS INDICATE THAT THE METAL BUILDING SYSTEM MANUFACTURER CORRECTLY INTERPRETED AND APPLIED THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. (SECT. 4.2.1 AISC CODE OF STANDARD PRACTICES, 9TH ED.)
WHERE DISCREPANCIES EXIST BETWEEN THE METAL BUILDING SYSTEM MANUFACTURER'S STRUCTURAL STEEL PLANS AND THE PLANS FOR OTHER TRADES, THE STRUCTURAL STEEL PLANS SHALL GOVERN. (SECT. 3.3 AISC CODE OF STANDARD PRACTICE 9TH ED.)
DESIGN CONSIDERATIONS OF ANY MATERIALS IN THE STRUCTURE WHICH ARE NOT FURNISHED BY THE METAL BUILDING SYSTEM MANUFACTURER ARE THE RESPONSIBILITY OF THE CONTRACTORS AND ENGINEERS OTHER THAN THE METAL BUILDING SYSTEM MANUFACTURER'S ENGINEER UNLESS SPECIFICALLY INDICATED.
THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION OF STEEL AND ASSOCIATED WORK IN COMPLIANCE WITH THE METAL BUILDING SYSTEM MANUFACTURER "FOR CONSTRUCTION" DRAWINGS.
ALL BRACING AS SHOWN AND PROVIDED BY THE METAL BUILDING SYSTEM MANUFACTURER FOR THIS BUILDING IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE.
TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSE WORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED AND FURNISHED AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS WILL SECURE THE STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, RESULTING FROM WIND, SEISMIC FORCES AND ERECTION OPERATIONS, BUT NOT THE LOADS RESULTING FROM THE PERFORMANCE OF WORK BY OR THE ACTS OF OTHERS, NOR SUCH UNPREDICTABLE LOADS AS THOSE DUE TO TORNADO, EXPLOSION, OR COLLISION. (SECT. 7.9.1 AISC CODE OF STANDARD PRACTICE, 9TH ED.)
WARNING : IN NO CASE SHOULD GALVALUME STEEL PANELS BE USED IN CONJUNCTION WITH LEAD OR COPPER. BOTH LEAD AND COPPER HAVE HARMFUL CORROSION EFFECTS ON THE ALUMINUM ZINC ALLOY COATING WHEN THEY ARE USED IN CONTACT WITH GALVALUME STEEL PANELS. EVEN RUN-OFF FROM COPPER FLASHING, WIRING, OR TUBING ONTO GALVALUME SHOULD BE AVOIDED.

## APPROVAL NOTES

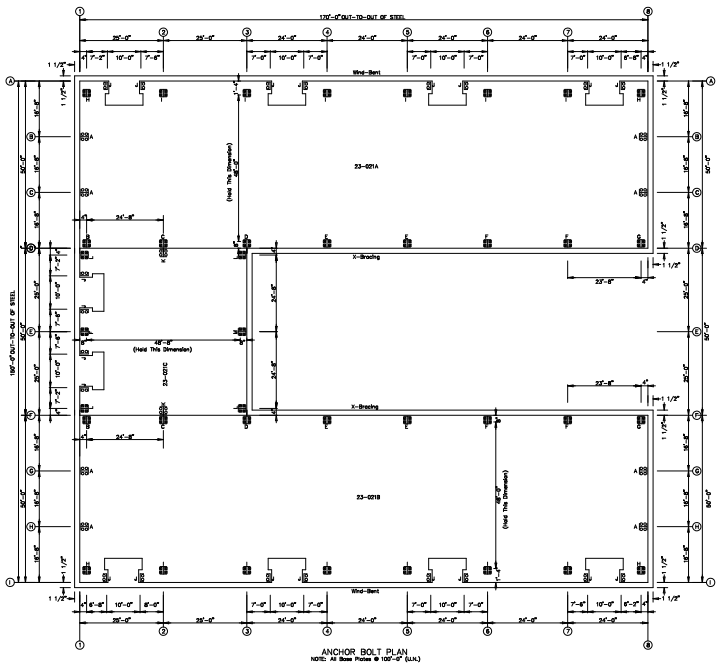
THE FOLLOWING CONDITIONS APPLY IN THE EVENT THAT THESE DRAWINGS ARE USED AS APPROVAL DRAWINGS:
IT IS IMPERATIVE THAT ANY CHANGES TO THESE DRAWINGS BE MADE IN CONTRASTING INK (PREFERABLY RED INK), HAVE ALL INSTANCES OF CHANGE CLEARLY INDICATED, AND BE LEGIBLE AND UNAMBIGUOUS.
A SIGNATURE AND DATE IS REQUIRED ON ALL PAGES.
MANUFACTURER RESERVES THE RIGHT TO RE-SUBMIT DRAWINGS WITH EXTENSIVE OR COMPLEX CHANGES REQUIRED TO AVOID MISFABRICATION. THIS MAY IMPACT THE DELIVERY SCHEDULE.
APPROVAL OF THESE DRAWINGS INDICATES CONCLUSIVELY THAT THE METAL BUILDING SYSTEM MANUFAACTURER HAS CORRECTLY INTERPRETED THE CONTRACT REQUIREMENTS, AND FURTHER CONSTITUTES AGREEMENT THAT THE BUILDING AS DRAWN WITH INDICATED CHANGES REPRESENTS THE TOTAL OF THE MATERIALS TO BE SUPPLIED BY MANUFACTURER.
ANY CHANGES NOTED ON THHE DRAWINGS NOT IN COMFORMANCE WITH THE TERMS AND REQUIREMENTS OF THE CONTRACT BETWEEN MANUFACTURER AND ITS CUSTOMER ARE NOT BINDING ON MANUFACTURER UNLESS SUBSEQUENTLY SPECIFICALLY ACKNOWLEDGED AND AGREED TO IN WRITING BY CHANGE ORDER OR SEPARATE DOCUMENTATION. MANUFACTURER RECONGNIZES THAT RUBBER STAMPS ARE ROUTINELY USED FOR INDICATING APPROVAL, DISAPPROVAL, REJECTION, OR MERE REVIEW OF THE DRAWINGS SUBMITTED. HOWEVER, MANUFACTURER DOES NOT ACCEPT CHANGES OR ADDITIONS TO CONTRACTURAL TERMS AND CONDITIONS THAT MAY APPEAR WITH USE OF A STAMP OR SIMILIAR INDICATIOIN OF APPPROVAL, DISAPPROVAL, ETC. SUCH LANGUAGE APPLIED TO MANUFACTURER'S DRAWINGS BY THE CUSTOMER, ARCHITECT, ENGINEER, OR ANY OTHER PARTY WILL BE CONSIDERED AS UNACCEPTABLE ALTERNATIONS TO THESE DRAWING NOTES, AND WILL NOT ALTER THE CONTRACTUAL RIGHTS AND OBLIGATIONS EXISTING BETWEEN MANUFACTURER AND ITS CUSTOMER.

IMPORTANT NOTE: FINAL DETAILING, FABRICATION, AND DELIVERY DATE OF THIS PROJECT CANNOT BE COMPLETED UNTIL THE SIGNED APPROVALS ARE RETURNED TO THE METAL BUILDING MANUFACTURER.

| REV. | DATE | REVISION |
|---|---|---|
| △ | | |
| △ | | |
| △ | | |
| B | ../../.. | FOR CONSTRUCTION |
| A | ../../.. | FOR APPROVAL |

JOB NUMBER: 23-021A
PURCHASER: JASON COCHRAN
PROJECT: JASON COCHRAN
ADDRESS: 10397 HAXTON RD
BENTONVILLE, AR

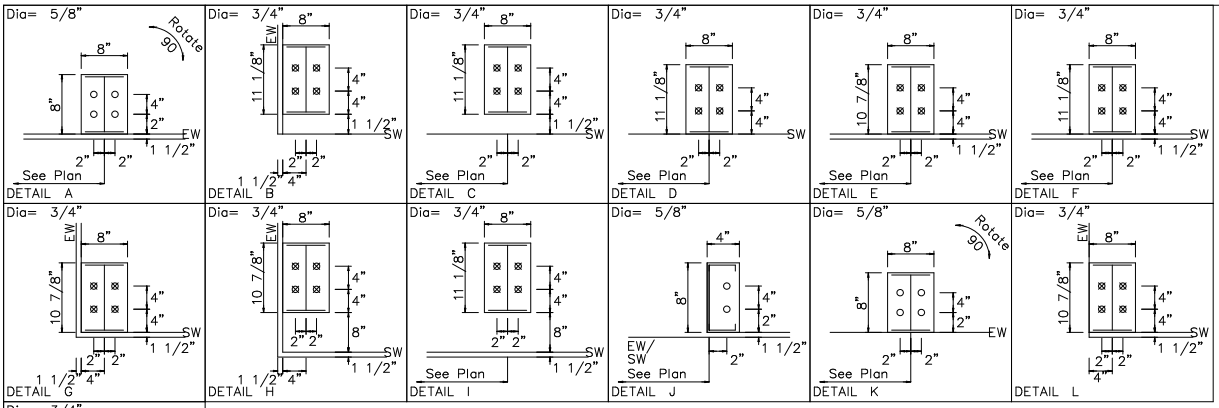
○ Dia= 5/8"
⊠ Dia= 3/4"




ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'-0" (LLK.)

WHEELER METALS
STEEL BUILDINGS

| JASON COCHRAN | | | |
|---|---|---|---|
| PROJECT | JASON COCHRAN | ANCHOR BOLT PLAN | |
| ID | 23-021 | DESIGN: DRAFT: | CHECK: |
| PROJECT ADDRESS | 10397 HAXTON RD BENTONVILLE, AR 72713 | DATE: 3/23/23 SHEET 1 OF 49 | |
| | | BUILDING SIZE: | |




WHEELER METALS
STEEL BUILDINGS

| JASON COCHRAN | | | |
|---|---|---|---|
| PROJECT | JASON COCHRAN | ANCHOR BOLT DETAILS | |
| ID | 23-021 | DESIGN: DRAFT: | CHECK: |
| PROJECT ADDRESS | 10397 HAXTON RD BENTONVILLE, AR 72713 | DATE: 3/23/23 | SHEET 2 OF 49 |
| | | BUILDING SIZE: | |

## NOTES FOR REACTIONS

Building reactions are based on the following building data:

| | |
|---|---|
| Width (ft) | = 50.0 |
| Length (ft) | = 170.0 |
| Eave Height (ft) | = 13.0/ 17.2 |
| Roof Slope (rise/12 ) | = 1.0 |
| Dead Load (psf ) | = 2.0 |
| Collateral Load (psf ) | = 0.0 |
| Live Load (psf ) | = 20.0 |
| Snow Load (psf ) | = 10.0 |
| Wind Speed (mph ) | = 115.0 |
| Wind Code | = IBC 15 |
| Exposure | = C |
| Closed/Open | = C |
| Importance Wind | = 1.00 |
| Importance Seismic | = 1.00 |
| Seismic Zone | = D |
| Seismic Coeff (Fa*Sa) | = 0.25 |

| ID | Description |
|---|---|
| 1 | Dead+Collateral+Live |
| 2 | 0.6Dead+0.6Wind_Left1 |
| 3 | 0.6Dead+0.6Wind_Right1 |
| 4 | 0.6Dead+0.6Wind_Long1L |
| 5 | 0.6Dead+0.6Wind_Long1R |
| 6 | 0.6Dead+0.6Wind_Right12+0.6Wind_Suction |
| 7 | 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L |
| 8 | Dead+0.6Wind_Right12+0.6Wind_Suction |

## BUILDING BRACING REACTIONS

| Loc | Line | Col Line | ± Reactions(k ) Wall Horz | Wall Vert | Wind Horz | Seismic Horz | Seismic Vert | Panel_Shear (lb/ft) Wind | Seis | Note |
|---|---|---|---|---|---|---|---|---|---|---|
| L_EW | 1 | | | | | | | | | (h) |
| R_SW | D | 4,5 | 3.7 | 2.4 | 0.7 | 0.4 | | | | |
| R_EW | B | | | | | | | | | (h) |
| B_SW | A | 4,5 | 1.7 | 1.6 | 0.5 | 0.5 | | | | (b) |

(b)Wind bent in bay, base above finish floor
(h)Rigid frame at endwall

## RIGID FRAME: BASIC COLUMN REACTIONS (k )

| Frame Id | Column Line | Dead Horiz | Dead Vert | Live Horiz | Live Vert | Snow Horiz | Snow Vert | Wind_Left1 Horiz | Wind_Left1 Vert | Wind_Right1 Horiz | Wind_Right1 Vert | Wind_Left2 Horiz | Wind_Left2 Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1* | A | 0.5 | 1.2 | 2.9 | 6.4 | 1.5 | 3.4 | -5.2 | -9.0 | 0.5 | -4.2 | -4.7 | -8.2 |
| 1* | D | -0.5 | 1.4 | -2.9 | 8.3 | -1.5 | 3.3 | 2.1 | -8.2 | 4.4 | -5.9 | 1.6 | -5.4 |

| Frame Id | Column Line | Wind_Right2 Horiz | Wind_Right2 Vert | Wind_Long1 Horiz | Wind_Long1 Vert | Wind_Long2 Horiz | Wind_Long2 Vert | Seismic_Left Horiz | Seismic_Left Vert | Seismic_Right Horiz | Seismic_Right Vert | MIN_SNOW Horiz | MIN_SNOW Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1* | A | 1.0 | -1.4 | -1.8 | -8.7 | -0.7 | -4.3 | -0.1 | -0.1 | 0.1 | 0.1 | 2.1 | 4.8 |
| 1* | D | 3.9 | -3.1 | 1.9 | -8.7 | 0.8 | -4.2 | -0.1 | 0.1 | 0.1 | -0.1 | -2.1 | 4.7 |

| Frame Id | Column Line | Dead Horiz | Dead Vert | Live Horiz | Live Vert | Snow Horiz | Snow Vert | Wind_Left1 Horiz | Wind_Left1 Vert | Wind_Right1 Horiz | Wind_Right1 Vert | Wind_Left2 Horiz | Wind_Left2 Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2* | A | 1.1 | 2.0 | 7.5 | 12.5 | 3.9 | 6.6 | -10.2 | -14.1 | -1.0 | -7.1 | -8.7 | -8.5 |
| 2* | D | -1.1 | 2.1 | -7.5 | 12.3 | -3.9 | 6.5 | 4.2 | -12.4 | 8.4 | -9.6 | 2.7 | -7.0 |

| Frame Id | Column Line | Wind_Right2 Horiz | Wind_Right2 Vert | Wind_Long1 Horiz | Wind_Long1 Vert | Wind_Long2 Horiz | Wind_Long2 Vert | Seismic_Left Horiz | Seismic_Left Vert | Seismic_Right Horiz | Seismic_Right Vert | MIN_SNOW Horiz | MIN_SNOW Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2* | A | 0.9 | -1.6 | -5.2 | -13.2 | -2.6 | -8.0 | -0.1 | -0.1 | 0.1 | 0.1 | 5.6 | 9.4 |
| 2* | D | 6.5 | -4.2 | 5.8 | -13.2 | 2.4 | -8.2 | -0.1 | 0.1 | 0.1 | -0.1 | -5.6 | 9.2 |

| Frame Id | Column Line | Dead Horiz | Dead Vert | Live Horiz | Live Vert | Snow Horiz | Snow Vert | Wind_Left1 Horiz | Wind_Left1 Vert | Wind_Right1 Horiz | Wind_Right1 Vert | Wind_Left2 Horiz | Wind_Left2 Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3* | A | 1.0 | 1.9 | 7.3 | 12.1 | 3.8 | 6.4 | -9.9 | -13.6 | -0.9 | -6.9 | -8.5 | -8.2 |
| 3* | D | -1.0 | 2.0 | -7.3 | 11.9 | -3.8 | 6.2 | 4.2 | -11.9 | 8.1 | -9.3 | 2.7 | -6.8 |

| Frame Id | Column Line | Wind_Right2 Horiz | Wind_Right2 Vert | Wind_Long1 Horiz | Wind_Long1 Vert | Wind_Long2 Horiz | Wind_Long2 Vert | Seismic_Left Horiz | Seismic_Left Vert | Seismic_Right Horiz | Seismic_Right Vert | Seismic_Long Horiz | Seismic_Long Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3* | A | 0.9 | -1.5 | -5.0 | -14.4 | -2.6 | -8.9 | -0.1 | -0.1 | 0.1 | 0.1 | 0.0 | -0.7 |
| 3* | D | 6.3 | -4.0 | 5.6 | -15.2 | 2.4 | -10.3 | -0.1 | 0.1 | 0.1 | -0.1 | 0.0 | -0.7 |

| Frame Id | Column Line | MIN_SNOW Horiz | MIN_SNOW Vert |
|---|---|---|---|
| 3* | A | 5.5 | 9.1 |
| 3* | D | -5.5 | 8.9 |

| Frame Id | Column Line | Dead Horiz | Dead Vert | Live Horiz | Live Vert | Snow Horiz | Snow Vert | Wind_Left1 Horiz | Wind_Left1 Vert | Wind_Right1 Horiz | Wind_Right1 Vert | Wind_Left2 Horiz | Wind_Left2 Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4* | A | 1.0 | 1.9 | 7.3 | 12.1 | 3.8 | 6.4 | -9.9 | -13.6 | -0.9 | -6.9 | -8.5 | -8.2 |
| 4* | D | -1.0 | 2.0 | -7.3 | 11.9 | -3.8 | 6.2 | 4.2 | -11.9 | 8.1 | -9.3 | 2.7 | -6.8 |

| Frame Id | Column Line | Wind_Right2 Horiz | Wind_Right2 Vert | Wind_Long1 Horiz | Wind_Long1 Vert | Wind_Long2 Horiz | Wind_Long2 Vert | Seismic_Left Horiz | Seismic_Left Vert | Seismic_Right Horiz | Seismic_Right Vert | Seismic_Long Horiz | Seismic_Long Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4* | A | 0.9 | -1.5 | -5.0 | -14.4 | -2.6 | -8.9 | -0.1 | -0.1 | 0.1 | 0.1 | 0.0 | -0.7 |
| 4* | D | 6.3 | -4.0 | 5.6 | -15.2 | 2.4 | -10.3 | -0.1 | 0.1 | 0.1 | -0.1 | 0.0 | -0.7 |

| Frame Id | Column Line | MIN_SNOW Horiz | MIN_SNOW Vert |
|---|---|---|---|
| 4* | A | 5.5 | 8.1 |
| 4* | D | -5.5 | 8.9 |

| Frame Id | Column Line | Dead Horiz | Dead Vert | Live Horiz | Live Vert | Snow Horiz | Snow Vert | Wind_Left1 Horiz | Wind_Left1 Vert | Wind_Right1 Horiz | Wind_Right1 Vert | Wind_Left2 Horiz | Wind_Left2 Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5* | A | 0.6 | 1.2 | 3.5 | 6.1 | 1.8 | 3.2 | -6.0 | -8.7 | -0.1 | -4.1 | -5.2 | -8.0 |
| 5* | D | -0.6 | 1.2 | -3.5 | 8.0 | -1.8 | 3.2 | 3.0 | -7.9 | 5.0 | -5.7 | 2.2 | -5.3 |

| Frame Id | Column Line | Wind_Right2 Horiz | Wind_Right2 Vert | Wind_Long1 Horiz | Wind_Long1 Vert | Wind_Long2 Horiz | Wind_Long2 Vert | Seismic_Left Horiz | Seismic_Left Vert | Seismic_Right Horiz | Seismic_Right Vert | MIN_SNOW Horiz | MIN_SNOW Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5* | A | 0.7 | -1.4 | -2.3 | -8.5 | -1.1 | -4.2 | -0.1 | 0.0 | 0.1 | 0.0 | 2.6 | 4.6 |
| 5* | D | 4.2 | -3.1 | 2.6 | -8.5 | 1.0 | -4.0 | -0.1 | 0.0 | 0.1 | 0.0 | -2.6 | 4.5 |

| | |
|---|---|
| 1* | Frame lines: 1 |
| 2* | Frame lines: 2 3 6 7 |
| 3* | Frame lines: 4 |
| 4* | Frame lines: 5 |
| 5* | Frame lines: 8 |

## ENDWALL COLUMN: BASIC COLUMN REACTIONS (k )

| Frm Line | Col Line | Dead Vert | Wind Press Horiz | Wind Suct Horiz |
|---|---|---|---|---|
| 1 | B | 0.2 | -2.5 | 2.5 |
| 1 | C | 0.2 | -2.5 | 2.8 |
| 8 | C | 0.2 | -2.5 | 2.8 |
| 8 | B | 0.2 | -2.3 | 2.5 |

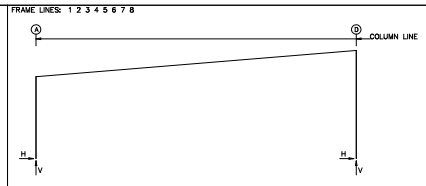
## ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

| Frm Line | Col Line | Column_Reactions(k ) Load Id | Horz | Vert | Bolt(in) Qty | Dia | Base_Plate(in) Width | Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | B | 6 | 1.5 | 0.1 | 4 | 0.625 | 8.000 | 8.000 | 0.375 | 0.0 |
| | | 7 | -1.4 | 0.1 | | | | | | |
| | | 8 | 1.5 | 0.2 | | | | | | |
| 1 | C | 6 | 1.7 | 0.1 | 4 | 0.625 | 8.000 | 8.000 | 0.375 | 0.0 |
| | | 7 | -1.9 | 0.1 | | | | | | |
| | | 8 | 1.7 | 0.2 | | | | | | |
| 8 | C | 6 | 1.7 | 0.1 | 4 | 0.625 | 8.000 | 8.000 | 0.375 | 0.0 |
| | | 7 | -1.9 | 0.1 | | | | | | |
| | | 8 | 1.7 | 0.2 | | | | | | |
| 8 | B | 6 | 1.5 | 0.1 | 4 | 0.625 | 8.000 | 8.000 | 0.375 | 0.0 |
| | | 7 | -1.4 | 0.1 | | | | | | |
| | | 8 | 1.5 | 0.2 | | | | | | |

## ANCHOR BOLT SUMMARY

| Qty | Locate | Dia (in) | Type | Total Len (in) | Bend Len (in) | Proj (in) |
|---|---|---|---|---|---|---|
| O 16 | Jamb | 5/8" | A307 | 10.0 | 3.00 | 3.00 |
| O 16 | Endwall | 5/8" | A307 | 10.0 | 3.00 | 3.00 |
| ⊠ 64 | Frame | 3/4" | A307 | 18.0 | | 3.00 |

FRAME LINES: 1 2 3 4 5 6 7 8




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

| Frm Id | Col Line | Column_Reactions(k ) Load Id | Horz | Vert | Bolt(in) Qty | Dia | Base_Plate(in) Width | Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1* | A | 1 | 3.3 | 7.6 | 4 | 0.750 | 8.000 | 10.88 | 0.500 | 0.0 |
| | | 2 | -2.8 | -4.7 | | | | | | |
| 1* | D | 1 | -3.3 | 7.6 | 4 | 0.750 | 8.000 | 11.13 | 0.500 | 0.0 |
| | | 2 | 1.0 | -4.1 | | | | | | |
| | | 3 | 2.4 | -2.7 | | | | | | |

1* Frame lines: 1

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

| Frm Id | Col Line | Column_Reactions(k ) Load Id | Horz | Vert | Bolt(in) Qty | Dia | Base_Plate(in) Width | Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2* | A | 1 | 8.6 | 14.5 | 4 | 0.750 | 8.000 | 11.13 | 0.500 | 0.0 |
| | | 2 | -5.5 | -7.2 | | | | | | |
| 2* | D | 1 | -8.8 | 14.4 | 4 | 0.750 | 8.000 | 11.13 | 0.500 | 0.0 |
| | | 3 | 4.4 | -4.5 | | | | | | |
| | | 6 | 2.8 | -6.6 | | | | | | |

2* Frame lines: 2 3 6 7

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

| Frm Id | Col Line | Column_Reactions(k ) Load Id | Horz | Vert | Bolt(in) Qty | Dia | Base_Plate(in) Width | Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 3* | A | 1 | 8.3 | 14.0 | 4 | 0.750 | 8.000 | 11.13 | 0.500 | 0.0 |
| | | 2 | -5.4 | -7.0 | | | | | | |
| | | 4 | -2.4 | -7.5 | | | | | | |
| 3* | D | 1 | -8.3 | 13.9 | 4 | 0.750 | 8.000 | 10.88 | 0.500 | 0.0 |
| | | 3 | 4.3 | -4.4 | | | | | | |
| | | 4 | 2.8 | -7.9 | | | | | | |

3* Frame lines: 4

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

| Frm Id | Col Line | Column_Reactions(k ) Load Id | Horz | Vert | Bolt(in) Qty | Dia | Base_Plate(in) Width | Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 4* | A | 1 | 8.3 | 14.0 | 4 | 0.750 | 8.000 | 11.13 | 0.500 | 0.0 |
| | | 2 | -5.4 | -7.0 | | | | | | |
| | | 4 | -2.4 | -7.5 | | | | | | |
| 4* | D | 1 | -8.3 | 13.9 | 4 | 0.750 | 8.000 | 10.88 | 0.500 | 0.0 |
| | | 3 | 4.3 | -4.4 | | | | | | |
| | | 4 | 2.8 | -7.9 | | | | | | |

4* Frame lines: 5

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

| Frm Id | Col Line | Column_Reactions(k ) Load Id | Horz | Vert | Bolt(in) Qty | Dia | Base_Plate(in) Width | Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 5* | A | 1 | 4.0 | 7.3 | 4 | 0.750 | 8.000 | 10.88 | 0.500 | 0.0 |
| | | 2 | -3.2 | -4.5 | | | | | | |
| 5* | D | 1 | -4.0 | 7.3 | 4 | 0.750 | 8.000 | 10.88 | 0.500 | 0.0 |
| | | 2 | 1.5 | -4.0 | | | | | | |
| | | 3 | 2.6 | -2.7 | | | | | | |

5* Frame lines: 8

WHEELER METALS
STEEL BUILDINGS

| | | | |
|---|---|---|---|
| JASON COCHRAN | | | |
| PROJECT | JASON COCHRAN | ANCHOR BOLT REACTIONS | |
| ID | 23-021 | DESIGN: | DRAFT: CHECK: |
| PROJECT ADDRESS | 10397 HAXTON RD BENTONVILLE, AR 72713 | DATE: 3/23/23 | SHEET 3 OF 49 |
| | | BUILDING SIZE: | |

## NOTES FOR REACTIONS

Building reactions are based on the following building data:

| | |
|---|---|
| Width (ft) | = 50.0 |
| Length (ft) | = 170.0 |
| Eave Height (ft) | = 13.0/ 17.2 |
| Roof Slope (rise/12 ) | = 1.0 |
| Dead Load (psf ) | = 2.0 |
| Collateral Load (psf ) | = 0.0 |
| Live Load (psf ) | = 20.0 |
| Snow Load (psf ) | = 10.0 |
| Wind Speed (mph ) | = 115.0 |
| Wind Code | = IBC 15 |
| Exposure | = C |
| Closed/Open | = C |
| Importance Wind | = 1.00 |
| Importance Seismic | = 1.00 |
| Seismic Zone | = D |
| Seismic Coeff (Fa*Sa) | = 0.25 |

| ID | Description |
|---|---|
| 1 | Dead+Collateral+Live |
| 2 | 0.6Dead+0.6Wind_Left1 |
| 3 | 0.6Dead+0.6Wind_Right1 |
| 4 | 0.6Dead+0.6Wind_Long1L |
| 5 | 0.6Dead+0.6Wind_Long1R |
| 6 | 0.6Dead+0.6Wind_Right12+0.6Wind_Suction |
| 7 | 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L |
| 8 | Dead+0.6Wind_Right12+0.6Wind_Suction |

## BUILDING BRACING REACTIONS

| Loc | Wall Line | Col Line | ± Reactions(k ) Wind Horz | Wind Vert | Seismic Horz | Seismic Vert | Panel Shear (lb/ft) Wind | Seis | Note |
|---|---|---|---|---|---|---|---|---|---|
| L_EW | 8 | | | | | | | | (h) |
| R_SW | F | 5,4 | 3.7 | 2.4 | 0.7 | 0.4 | | | |
| R_EW | 1 | | | | | | | | (h) |
| B_SW | 1 | 5,4 | 1.7 | 1.6 | 0.5 | 0.5 | | | (b) |

(b)Wind bent in bay, base above finish floor
(h)Rigid frame at endwall

## RIGID FRAME: BASIC COLUMN REACTIONS (k )

| Frame Id | Column Line | Dead Horiz | Dead Vert | Live Horiz | Live Vert | Snow Horiz | Snow Vert | Wind_Left1 Horiz | Wind_Left1 Vert | Wind_Right1 Horiz | Wind_Right1 Vert | Wind_Left2 Horiz | Wind_Left2 Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6* | I | 0.6 | 1.2 | 3.6 | 6.4 | 1.9 | 3.4 | -6.2 | -9.1 | -0.2 | -4.3 | -5.4 | -6.3 |
| 6* | F | -0.6 | 1.3 | -3.6 | 8.3 | -1.9 | 3.3 | 3.2 | -8.3 | 5.2 | -5.9 | 2.4 | -5.5 |
| 7* | I | 1.1 | 2.0 | 7.5 | 12.5 | 3.9 | 6.6 | -10.2 | -14.1 | -1.0 | -7.1 | -8.7 | -8.5 |
| 7* | F | -1.1 | 2.1 | -7.5 | 12.3 | -3.9 | 6.5 | 4.2 | -12.4 | 8.4 | -9.6 | 2.7 | -7.0 |
| 8* | I | 1.0 | 2.0 | 7.3 | 12.5 | 3.9 | 6.6 | -10.1 | -14.1 | -0.8 | -7.1 | -8.7 | -8.5 |
| 8* | F | -1.0 | 2.0 | -7.3 | 12.3 | -3.9 | 6.5 | 4.1 | -12.4 | 8.2 | -9.6 | 2.7 | -7.0 |
| 9* | I | 1.0 | 2.0 | 7.3 | 12.5 | 3.9 | 6.6 | -10.1 | -14.1 | -0.8 | -7.1 | -8.7 | -8.5 |
| 9* | F | -1.0 | 2.0 | -7.3 | 12.3 | -3.9 | 6.5 | 4.1 | -12.4 | 8.2 | -9.6 | 2.7 | -7.0 |
| 10* | I | 0.5 | 1.2 | 2.9 | 6.4 | 1.5 | 3.4 | -5.2 | -8.0 | 0.5 | -4.2 | -4.7 | -6.2 |
| 10* | F | -0.5 | 1.4 | -2.9 | 8.3 | -1.5 | 3.3 | 2.1 | -8.2 | 4.4 | -5.9 | 1.6 | -5.4 |

| Frame Id | Column Line | Wind_Right12 Horiz | Wind_Right12 Vert | Wind_Long1 Horiz | Wind_Long1 Vert | Wind_Long2 Horiz | Wind_Long2 Vert | Seismic_Left Horiz | Seismic_Left Vert | Seismic_Right Horiz | Seismic_Right Vert | MIN_SNOW Horiz | MIN_SNOW Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6* | I | 0.7 | -1.4 | -2.4 | -8.7 | -1.2 | -4.4 | -0.1 | -0.1 | 0.1 | 0.1 | 2.7 | 4.8 |
| 6* | F | 4.3 | -3.2 | 2.7 | -8.7 | 1.1 | -4.2 | -0.1 | 0.1 | 0.1 | -0.1 | -2.7 | 4.7 |
| 7* | I | -1.1 | 2.1 | -7.5 | 12.3 | -3.9 | 6.5 | 4.2 | -12.4 | 8.4 | -9.6 | 2.7 | -7.0 |
| 7* | I | 0.9 | -1.6 | -5.2 | -13.2 | -2.6 | -8.0 | -0.1 | -0.1 | 0.1 | 0.1 | 5.6 | 9.4 |
| 7* | F | 6.5 | -4.2 | 5.8 | -13.2 | 2.4 | -8.2 | -0.1 | 0.1 | 0.1 | -0.1 | -5.6 | 9.2 |
| 8* | I | -1.0 | 2.0 | -7.3 | 12.3 | -3.9 | 6.5 | 4.1 | -12.4 | 8.2 | -9.6 | 2.7 | -7.0 |
| 8* | I | 1.0 | -1.6 | -5.0 | -14.8 | -2.5 | -10.2 | -0.1 | -0.1 | 0.1 | 0.1 | 0.0 | -0.7 |
| 8* | F | 6.4 | -4.2 | 5.6 | -15.6 | 2.3 | -10.6 | -0.1 | 0.1 | 0.1 | -0.1 | 0.0 | -0.7 |
| 9* | I | 1.0 | -1.6 | -5.0 | -14.8 | -2.5 | -10.2 | -0.1 | -0.1 | 0.1 | 0.1 | 0.0 | -0.7 |
| 9* | F | 6.4 | -4.2 | 5.6 | -15.6 | 2.3 | -10.6 | -0.1 | 0.1 | 0.1 | -0.1 | 0.0 | -0.7 |
| 10* | I | 1.0 | -1.4 | -1.6 | -8.7 | -0.7 | -4.3 | -0.1 | -0.1 | 0.1 | 0.1 | 2.1 | 4.8 |
| 10* | F | 3.9 | -3.1 | 1.9 | -8.7 | 0.6 | -4.2 | -0.1 | 0.1 | 0.1 | -0.1 | -2.1 | 4.7 |

| Frame Id | Column Line | MIN_SNOW Horiz | MIN_SNOW Vert |
|---|---|---|---|
| 8* | I | 5.5 | 9.4 |
| 8* | F | -5.5 | 9.2 |
| 9* | I | 5.5 | 9.4 |
| 9* | F | -5.5 | 9.2 |

6* Frame lines: 8
7* Frame lines: 7 6 3 2
8* Frame lines: 5
9* Frame lines: 4
10* Frame lines: 1

## ENDWALL COLUMN: BASIC COLUMN REACTIONS (k )

| Frm Line | Col Line | Dead Vert | Wind Press Horz | Wind Suct Horz |
|---|---|---|---|---|
| 8 | H | 0.2 | -2.5 | 2.5 |
| 8 | G | 0.2 | -2.5 | 2.8 |
| 1 | G | 0.2 | -2.5 | 2.8 |
| 1 | H | 0.2 | -2.3 | 2.5 |

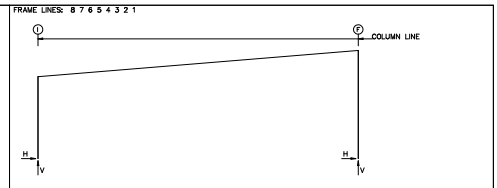
## ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

| Frm Line | Col Line | Load Id | Column_Reactions(k ) Horz | Vert | Bolt(in) Qty | Dia | Base_Plate(in) Width | Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 8 | H | 6 | 1.5 | 0.1 | 4 | 0.625 | 8.000 | 8.000 | 0.375 | 0.0 |
| | | 7 | -1.4 | 0.1 | | | | | | |
| | | 8 | 1.5 | 0.2 | | | | | | |
| 8 | G | 6 | 1.7 | 0.1 | 4 | 0.625 | 8.000 | 8.000 | 0.375 | 0.0 |
| | | 7 | -1.9 | 0.1 | | | | | | |
| | | 8 | 1.7 | 0.2 | | | | | | |
| 1 | G | 6 | 1.7 | 0.1 | 4 | 0.625 | 8.000 | 8.000 | 0.375 | 0.0 |
| | | 7 | -1.9 | 0.1 | | | | | | |
| | | 8 | 1.7 | 0.2 | | | | | | |
| 1 | H | 6 | 1.5 | 0.1 | 4 | 0.625 | 8.000 | 8.000 | 0.375 | 0.0 |
| | | 7 | -1.4 | 0.1 | | | | | | |
| | | 8 | 1.5 | 0.2 | | | | | | |

## ANCHOR BOLT SUMMARY

| Qty | Locate | Dia (in) | Type | Total Len (in) | Bend Len (in) | Proj (in) |
|---|---|---|---|---|---|---|
| O 16 | Jamb | 5/8" | A307 | 10.0 | 3.00 | 3.00 |
| O 16 | Endwall | 5/8" | A307 | 10.0 | 3.00 | 3.00 |
| ⊠ 64 | Frame | 3/4" | A307 | 18.0 | | 3.00 |

FRAME LINES: 8 7 6 5 4 3 2 1




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

| Frm Id | Col Line | Load Id | Column_Reactions(k ) Horz | Vert | Bolt(in) Qty | Dia | Base_Plate(in) Width | Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 6* | I | 1 | 4.2 | 7.6 | 4 | 0.750 | 8.000 | 10.88 | 0.500 | 0.0 |
| | | 2 | -3.4 | -4.7 | | | | | | |
| 6* | F | 1 | -4.2 | 7.5 | 4 | 0.750 | 8.000 | 10.88 | 0.500 | 0.0 |
| | | 2 | 1.2 | -4.9 | | | | | | |
| | | 3 | 2.8 | -2.8 | | | | | | |

6* Frame lines: 8

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

| Frm Id | Col Line | Load Id | Column_Reactions(k ) Horz | Vert | Bolt(in) Qty | Dia | Base_Plate(in) Width | Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 7* | I | 1 | 8.6 | 14.5 | 4 | 0.750 | 8.000 | 11.13 | 0.500 | 0.0 |
| | | 2 | -5.5 | -7.2 | | | | | | |
| 7* | F | 1 | -8.8 | 14.4 | 4 | 0.750 | 8.000 | 11.13 | 0.500 | 0.0 |
| | | 3 | 4.4 | -4.5 | | | | | | |
| | | 6 | 2.8 | -6.6 | | | | | | |

7* Frame lines: 7 6 3 2

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

| Frm Id | Col Line | Load Id | Column_Reactions(k ) Horz | Vert | Bolt(in) Qty | Dia | Base_Plate(in) Width | Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 8* | I | 1 | 8.3 | 14.5 | 4 | 0.750 | 8.000 | 11.13 | 0.500 | 0.0 |
| | | 2 | -5.4 | -7.3 | | | | | | |
| | | 4 | -2.4 | -7.7 | | | | | | |
| 8* | F | 1 | -8.3 | 14.3 | 4 | 0.750 | 8.000 | 10.88 | 0.500 | 0.0 |
| | | 3 | 4.3 | -4.5 | | | | | | |
| | | 4 | 2.8 | -8.2 | | | | | | |

8* Frame lines: 5

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

| Frm Id | Col Line | Load Id | Column_Reactions(k ) Horz | Vert | Bolt(in) Qty | Dia | Base_Plate(in) Width | Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 9* | I | 1 | 8.3 | 14.5 | 4 | 0.750 | 8.000 | 11.13 | 0.500 | 0.0 |
| | | 2 | -5.4 | -7.3 | | | | | | |
| | | 4 | -2.4 | -7.7 | | | | | | |
| 9* | F | 1 | -8.3 | 14.3 | 4 | 0.750 | 8.000 | 10.88 | 0.500 | 0.0 |
| | | 3 | 4.3 | -4.5 | | | | | | |
| | | 4 | 2.8 | -8.2 | | | | | | |

9* Frame lines: 4

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

| Frm Id | Col Line | Load Id | Column_Reactions(k ) Horz | Vert | Bolt(in) Qty | Dia | Base_Plate(in) Width | Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 10* | I | 1 | 3.3 | 7.6 | 4 | 0.750 | 8.000 | 10.88 | 0.500 | 0.0 |
| | | 2 | -2.8 | -4.7 | | | | | | |
| 10* | F | 1 | -3.3 | 7.6 | 4 | 0.750 | 8.000 | 11.13 | 0.500 | 0.0 |
| | | 2 | 1.0 | -4.1 | | | | | | |
| | | 3 | 2.4 | -2.7 | | | | | | |

10* Frame lines: 1

WHEELER METALS
STEEL BUILDINGS

| | | | |
|---|---|---|---|
| JASON COCHRAN | | | |
| PROJECT | JASON COCHRAN | ANCHOR BOLT REACTIONS | |
| ID | 23-021 | DESIGN: | DRAFT: CHECK: |
| PROJECT ADDRESS | 10397 HAXTON RD BENTONVILLE, AR 72713 | DATE: 3/23/23 | SHEET 4 OF 49 |
| | | BUILDING SIZE: | |

## RIGID FRAME: BASIC COLUMN REACTIONS (k )

| Frame Id | Column Line | Dead Horiz | Dead Vert | Live Horiz | Live Vert | Snow Horiz | Snow Vert | Snow_Drift Horiz | Snow_Drift Vert | Wind_Left1 Horiz | Wind_Left1 Vert | Wind_Right1 Horiz | Wind_Right1 Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11* | 1 | 0.6 | 1.2 | 3.9 | 6.3 | 2.1 | 3.3 | 1.8 | 3.0 | -6.7 | -8.9 | -0.5 | -6.2 |
| 11* | 3 | -0.6 | 1.3 | -3.9 | 6.4 | -2.1 | 3.3 | -1.8 | 3.0 | 3.6 | -8.3 | 5.2 | -5.8 |

| Frame Id | Column Line | 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 | Seismic_Right Horiz | Seismic_Right Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11* | 1 | -5.7 | -6.1 | 0.5 | -1.5 | -2.8 | -6.7 | -1.4 | -4.3 | -0.1 | -0.1 | 0.1 | 0.1 |
| 11* | 3 | 2.6 | -5.5 | 4.2 | -3.0 | 3.0 | -6.8 | 1.3 | -4.2 | -0.1 | 0.1 | 0.1 | -0.1 |

| Frame Id | Column Line | MIN_SNOW Horiz | MIN_SNOW Vert |
|---|---|---|---|
| 11* | 1 | 2.9 | 4.7 |
| 11* | 3 | -2.9 | 4.8 |

| Frame Id | Column Line | Dead Horiz | Dead Vert | Live Horiz | Live Vert | Snow Horiz | Snow Vert | Snow_Drift Horiz | Snow_Drift Vert | Wind_Left1 Horiz | Wind_Left1 Vert | Wind_Right1 Horiz | Wind_Right1 Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12* | 1 | 1.2 | 2.4 | 9.1 | 15.4 | 4.8 | 8.1 | 0.5 | 0.9 | -12.5 | -17.2 | -1.1 | -8.9 |
| 12* | 3 | -1.2 | 2.5 | -9.1 | 15.5 | -4.8 | 8.1 | -0.5 | 0.9 | 5.3 | -15.8 | 9.8 | -11.8 |

| Frame Id | Column Line | 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 | Seismic_Right Horiz | Seismic_Right Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12* | 1 | -10.6 | -10.4 | 1.1 | -2.1 | -6.3 | -16.2 | -3.2 | -10.4 | -0.2 | -0.1 | 0.2 | 0.1 |
| 12* | 3 | 3.4 | -8.8 | 7.6 | -5.1 | 6.9 | -16.6 | 3.0 | -10.3 | -0.2 | 0.1 | 0.2 | -0.1 |

| Frame Id | Column Line | MIN_SNOW Horiz | MIN_SNOW Vert |
|---|---|---|---|
| 12* | 1 | 6.8 | 11.5 |
| 12* | 3 | -6.8 | 11.6 |

| Frame Id | Column Line | Dead Horiz | Dead Vert | Live Horiz | Live Vert | Snow Horiz | Snow Vert | Snow_Drift Horiz | Snow_Drift Vert | Wind_Left1 Horiz | Wind_Left1 Vert | Wind_Right1 Horiz | Wind_Right1 Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13* | 1 | 0.6 | 1.2 | 3.9 | 6.3 | 2.1 | 3.3 | 1.8 | 3.0 | -6.7 | -8.9 | -0.5 | -6.2 |
| 13* | 3 | -0.6 | 1.3 | -3.9 | 6.4 | -2.1 | 3.3 | -1.8 | 3.0 | 3.6 | -8.3 | 5.2 | -5.8 |

| Frame Id | Column Line | 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 | Seismic_Right Horiz | Seismic_Right Vert |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13* | 1 | -5.7 | -6.1 | 0.5 | -1.5 | -2.8 | -6.7 | -1.4 | -4.3 | -0.1 | -0.1 | 0.1 | 0.1 |
| 13* | 3 | 2.6 | -5.5 | 4.2 | -3.0 | 3.0 | -6.8 | 1.3 | -4.2 | -0.1 | 0.1 | 0.1 | -0.1 |

| Frame Id | Column Line | MIN_SNOW Horiz | MIN_SNOW Vert |
|---|---|---|---|
| 13* | 1 | 2.9 | 4.7 |
| 13* | 3 | -2.9 | 4.8 |

11* Frame lines: F
12* Frame lines: E
13* Frame lines: D

## NOTES FOR REACTIONS

Building reactions are based on the following building data:

| | | |
|---|---|---|
| Width (ft) | = | 50.0 |
| Length (ft) | = | 50.0 |
| Eave Height (ft) | = | 13.0/ 16.3 |
| Roof Slope (rise/12 ) | = | 0.8 |
| Dead Load (psf ) | = | 2.0 |
| Collateral Load (psf ) | = | 0.0 |
| Live Load (psf ) | = | 20.0 |
| Snow Load (psf ) | = | 10.5 |
| Wind Speed (mph ) | = | 115.0 |
| Wind Code | = | IBC 15 |
| Exposure | = | C |
| Closed/Open | = | C |
| Importance Wind | = | 1.00 |
| Importance Seismic | = | 1.00 |
| Seismic Zone | = | C |
| Seismic Coeff (Fa*Ss) | = | 0.25 |

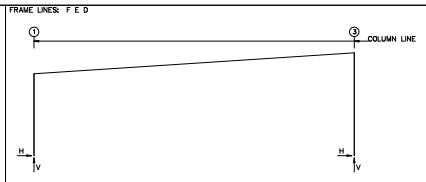
| ID | Description |
|---|---|
| 1 | Dead+Collateral+Live |
| 2 | 0.6Dead+0.6Wind_Left1 |
| 3 | 0.6Dead+0.6Wind_Right1 |
| 4 | 0.6Dead+0.6Wind_Long1 |
| 5 | Dead+Collateral+Snow/2+E1PAT_SL_2 |
| 6 | Dead+Collateral+Snow/2+E2PAT_SL_2 |

## BUILDING BRACING REACTIONS

| Wall Loc | Col Line | Reactions(k ) Wind Horz | Reactions(k ) Wind Vert | Reactions(k ) Seismic Horz | Reactions(k ) Seismic Vert | Panel_Shear (lb/ft) Wind | Panel_Shear (lb/ft) Seis | Note |
|---|---|---|---|---|---|---|---|---|
| L_EW | F | | | | | | | (h) |
| F_SW | 3 | | | | | 71 | 4 | |
| R_EW | D | | | | | | | (h) |
| B_SW | 1 | | | | | 108 | 7 | |

(h)Rigid frame at endwall

FRAME LINES: F E D




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

| Frm Id | Col Line | Column_Reactions(k ) Load Id | Horz | Vert | Bolt(in) Qty | Bolt(in) Dia | Base_Plate(in) Width | Base_Plate(in) Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 11* | 1 | 1 | 4.5 | 7.5 | 4 | 0.750 | 8.000 | 10.88 | 0.500 | 0.0 |
| | | 2 | -3.6 | -4.6 | | | | | | |
| 11* | 3 | 1 | -4.5 | 7.6 | 4 | 0.750 | 8.000 | 10.88 | 0.500 | 0.0 |
| | | 2 | 1.8 | -2.2 | | | | | | |
| | | 3 | 2.7 | -2.7 | | | | | | |

11* Frame lines: F

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

| Frm Id | Col Line | Column_Reactions(k ) Load Id | Horz | Vert | Bolt(in) Qty | Bolt(in) Dia | Base_Plate(in) Width | Base_Plate(in) Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 12* | 1 | 1 | 10.3 | 17.7 | 4 | 0.750 | 8.000 | 11.13 | 0.500 | 0.0 |
| | | 2 | -6.8 | -8.9 | | | | | | |
| 12* | 3 | 1 | -10.3 | 18.0 | 4 | 0.750 | 8.000 | 11.38 | 0.500 | 0.0 |
| | | 3 | 6.2 | -8.6 | | | | | | |
| | | 4 | 3.4 | -8.4 | | | | | | |

12* Frame lines: E

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

| Frm Id | Col Line | Column_Reactions(k ) Load Id | Horz | Vert | Bolt(in) Qty | Bolt(in) Dia | Base_Plate(in) Width | Base_Plate(in) Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| 13* | 1 | 1 | 4.5 | 7.5 | 4 | 0.750 | 8.000 | 10.88 | 0.500 | 0.0 |
| | | 2 | -3.6 | -4.6 | | | | | | |
| 13* | 3 | 1 | -4.5 | 7.6 | 4 | 0.750 | 8.000 | 10.88 | 0.500 | 0.0 |
| | | 2 | 1.8 | -2.2 | | | | | | |
| | | 3 | 2.7 | -2.7 | | | | | | |

13* Frame lines: D

## ENDWALL COLUMN: BASIC COLUMN REACTIONS (k )

| Frm Line | Col Line | Dead Vert |
|---|---|---|
| F | 2 | 0.2 |
| D | 2 | 0.2 |

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

| Frm Line | Col Line | Column_Reactions(k ) Load Id | Horz | Vert | Bolt(in) Qty | Bolt(in) Dia | Base_Plate(in) Width | Base_Plate(in) Length | Thick | Grout (in) |
|---|---|---|---|---|---|---|---|---|---|---|
| F | 2 | 5 | 0.0 | 0.2 | 4 | 0.625 | 8.000 | 8.000 | 0.375 | 0.0 |
| D | 2 | 6 | 0.0 | 0.2 | 4 | 0.625 | 8.000 | 8.000 | 0.375 | 0.0 |

## ANCHOR BOLT SUMMARY

| Qty | Locate | Dia (in) | Type | Total Len (in) | Bend Len (in) | Proj (in) |
|---|---|---|---|---|---|---|
| ○ 8 | Jamb | 5/8" | A307 | 10.0 | 3.00 | 3.00 |
| ○ 8 | Endwall | 5/8" | A307 | 10.0 | 3.00 | 3.00 |
| ⊠ 24 | Frame | 3/4" | A307 | 18.0 | | 3.00 |

WHEELER METALS
STEEL BUILDINGS

| JASON COCHRAN | | | |
|---|---|---|---|
| PROJECT | JASON COCHRAN | ANCHOR BOLT REACTIONS | |
| ID | 23-021 | DESIGN: | DRAFT: CHECK: |
| PROJECT ADDRESS | 10397 HAXTON RD BENTONVILLE, AR 72713 | DATE: 3/23/23 | SHEET 5 OF 49 |
| | | BUILDING SIZE: | |