

**DESIGN CRITERIA**

1. BUILDING CODE = 2018 INTERNATIONAL BUILDING CODE
2. IMPORTANCE FACTORS SNOW (Is) = 0.80  
SEISMIC (Ie) = 1.00
3. GROUND SNOW LOAD = 10 PSF
4. ROOF LIVE LOAD = 5 PSF (NO FOOT TRAFFIC)
5. FLOOR LIVE LOAD = 40 PSF (UNOCCUPIED STORAGE ONLY)
6. WIND LOAD
  - i. ULTIMATE WIND SPEED (IBC) = 150 MPH
  - ii. NOMINAL WIND SPEED (ASCE 7-16) = 116 MPH
  - iii. EXPOSURE CATEGORY = B
  - iv. WIND BASE SHEAR (MWFRS)  $V_x = 2.4 k$  (PER FRAME)  
 $V_y = 2.4 k$  (PER FRAME)
7. SEISMIC LOAD
  - i. SEISMIC DESIGN CATEGORY = D
  - ii. SEI

**GENERAL NOTES:**

1. WHERE A DETAIL IS SHOWN ON THE STRUCTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE.
2. IF CONTRACTOR FINDS A DIFFERENCE BETWEEN THESE DRAWINGS AND EXISTING ELEVATIONS, OR OTHER CONDITIONS WHICH PROHIBIT EXECUTION OF THE WORK AS DIRECTED ON THESE DRAWINGS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
3. ALL ITEMS SHALL BE TIGHTLY ANCHORED OR ATTACHED SQUARE, PLUMB AND TRUE, OR IN OTHER PLANES OR SHAPE AS SHOWN ON THE DRAWING.

**CONCRETE NOTES:**

1. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 3000 PSI.
2. CONCRETE WORK SHALL COMPLY WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
3. ALL FOUNDATIONS SHALL BE PLACED ON SOIL WITH MINIMUM BEARING PRESSURE OF 1500 PSF.
4. FIBERMESH MAY BE SUBSTITUTED FOR WWM PER MANUFACTURER'S SPECIFICATIONS.

**REINFORCING NOTES:**

1. ALL CONCRETE REINFORCEMENT SHALL BE PER ASTM A615, GRADE 60.
2. PROVIDE 3" CLEARANCE TO SURFACES IN CONTACT WITH EARTH.
3. MINIMUM DEVELOPMENT LENGTH / LAP LENGTH SHALL BE 30 TIMES THE DIAMETER OF THE BARS.

**STEEL NOTES:**

1. ALL GALVANIZING SHALL BE PERFORMED AFTER FABRICATION, AND IN ACCORDANCE WITH ASTM A123 AND/OR A153.
2. MINIMUM YIELD STRENGTH OF THE STEEL USED FOR LIGHT GAUGE METAL FRAMES SHALL BE 55 KSI, FOR RAW AND GALVANIZED TUBES.
3. MINIMUM YIELD STRENGTH OF THE STEEL USED FOR LIGHT GAUGE METAL DECK SHALL BE 80 KSI. DECKING SPANS SHALL COVER THREE SPANS, MINIMUM.
4. THE LIGHT GAUGE METAL FRAMES AND DECK SHALL BE OF THE GAUGE INDICATED ON THE PLAN/DETAILS.
5. ALL SCREWS FOR ASSEMBLING FRAMES SHALL BE #12 SELF-TAPPING SCREWS.

**WELDING NOTES:**

1. ALL WELDS SHALL BE IN ACCORDANCE WITH AWS D1.1.
2. ALL WELDS SHALL BE COATED WITH GALVANIZED PRIMER & PAINT AFTER WELDING.



**GUNDERSON ENGINEERING PLLC**  
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**GE GUNDERSON ENGINEERING**

Craig E. Gunderson, P.E. #048404  
 LICENSE # P-2016  
 DATE: 03/15/2022  
 PROJECT NO. 2206143

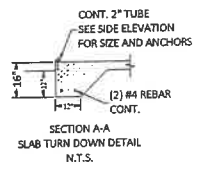
|                                  |            |   |   |
|----------------------------------|------------|---|---|
| CONTRACTOR:<br>CAPITOL BUILDINGS |            | PROJECT DESCRIPTION:<br>30' WIDE X 80' LONG<br>METAL BUILDING |   |
| DESIGN DATE:                     | 03/15/2022 |   |   |
| REVISION 1:                      | DATE       |   |   |
| REVISION 2:                      | DATE       | PAGE :  | 1 |
| DRAWN BY:                        | KHV        |   |   |
| SCALE:                           | NTS        |   |   |



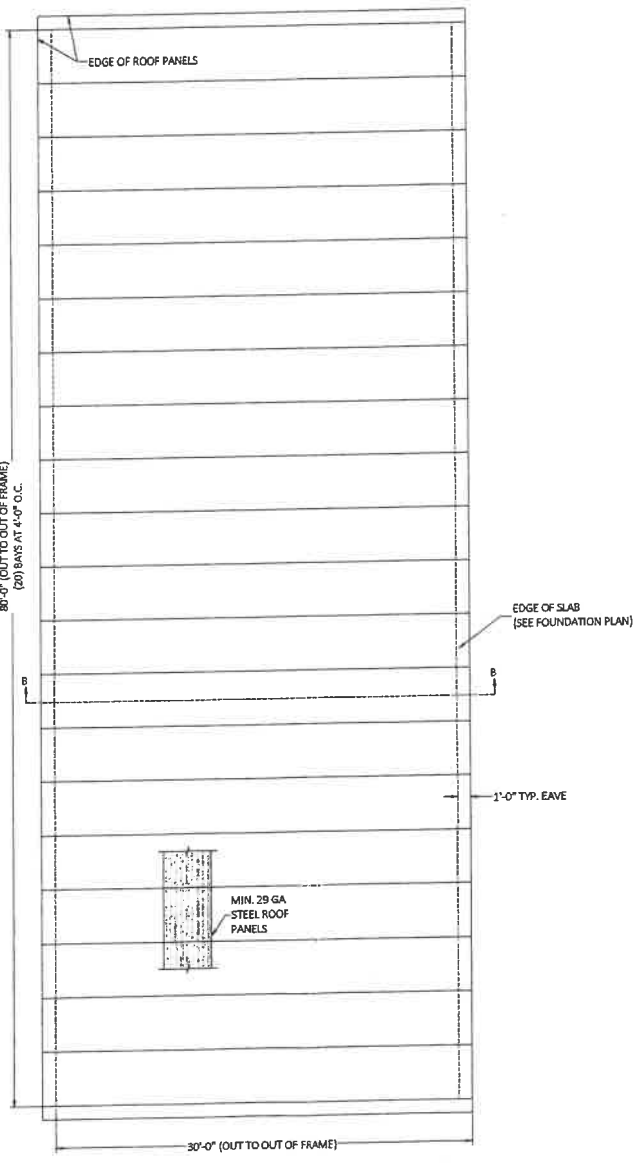
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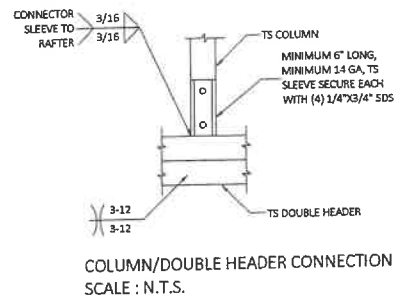
FOUNDATION PLAN  
N.T.S.



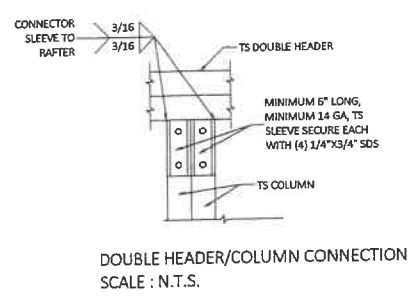
NOTE:  
OWNER TO PROVIDE POSITIVE DRAINAGE  
(1/4" PER FT MIN.) AWAY FROM BUILDING PAD.



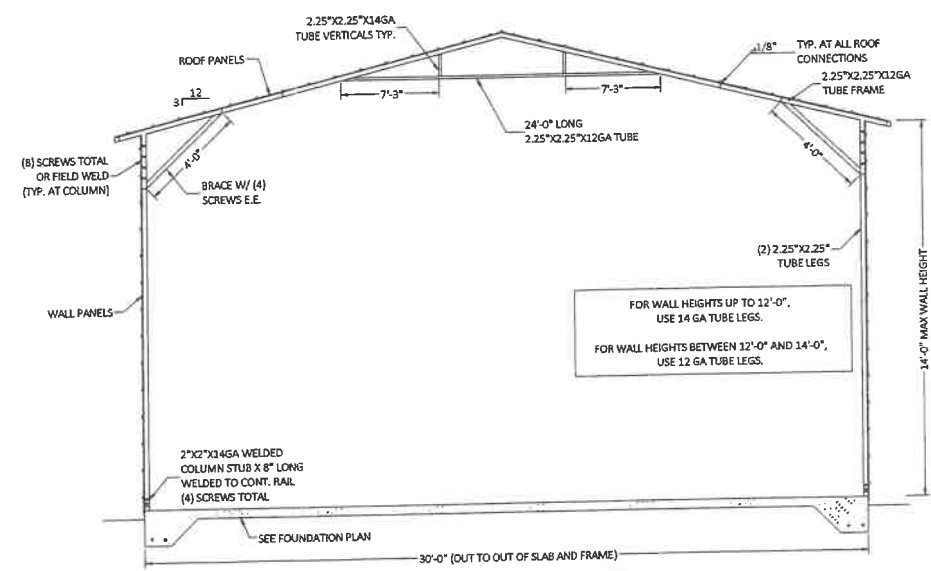
FRAMING PLAN  
N.T.S.



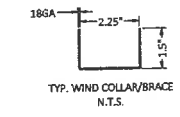
COLUMN/DOUBLE HEADER CONNECTION  
SCALE: N.T.S.



DOUBLE HEADER/COLUMN CONNECTION  
SCALE: N.T.S.

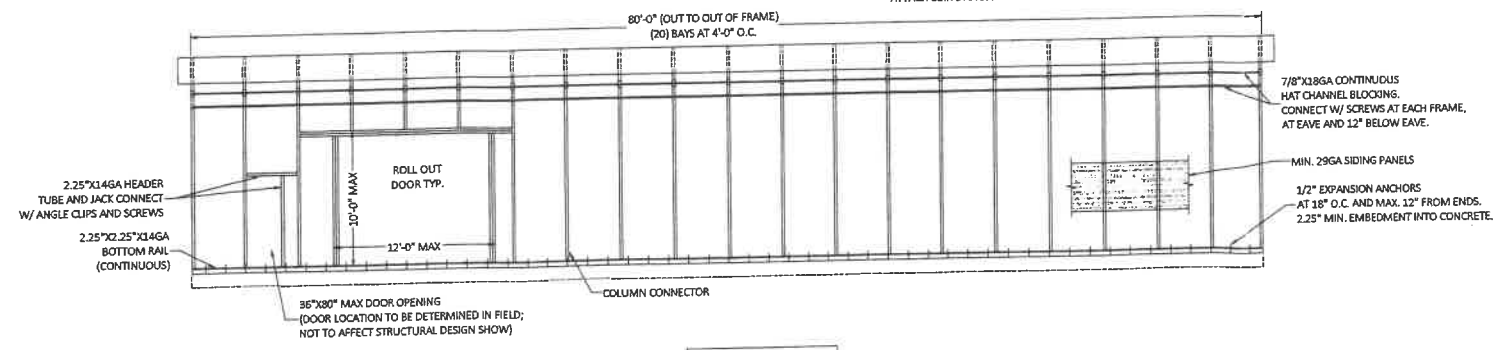


SECTION B-B  
N.T.S.



GABLE END WALL FRAMING:  
GABLE END WALLS SHALL BE FRAMED USING 2.25" X 14GA SQUARE TUBES TO THE BOTTOM RAIL AND RAFTERS W/ L-CLIPS AND (2) SCREWS IN EACH LEG OF THE CLIP. ANY STUDS OVER 13'-0" IN LENGTH SHALL BE (2) 2.25" X 14GA AND ATTACHED W/ (2) L-CLIPS AND (2) SCREWS IN EACH LEG OF THE CLIP.

DOOR OPENING NOTE:  
EXACT LOCATION TO BE DETERMINED BY THE CONTRACTOR.  
MINIMUM HEADER SIZE = (2) 2.25"X14GA SQUARE TUBES ATTACHED TOGETHER W/ CLIPS AND SCREWS AT 12" O.C. MINIMUM.  
(1) 2.25" KING STUD EACH SIDE.  
ATTACH USING ANGLE CLIPS AND SCREWS.



SIDE ELEVATION  
N.T.S.

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PROJECT NO. 2206143

CONTRACTOR:  
CAPITOL BUILDINGS

PROJECT ADDRESS:  
30' WIDE X 80' LONG  
METAL BUILDING

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