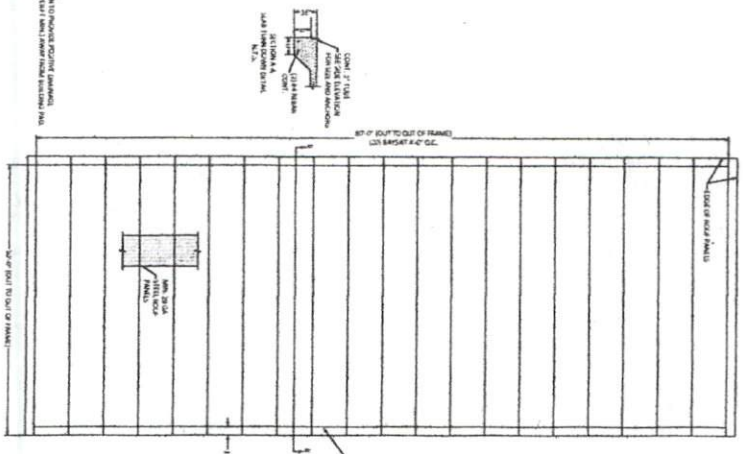
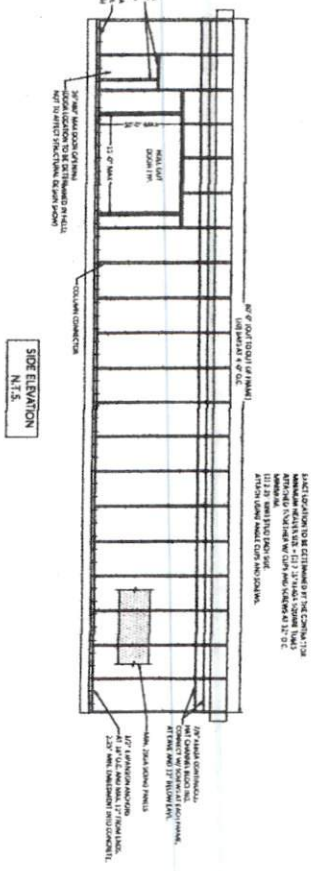
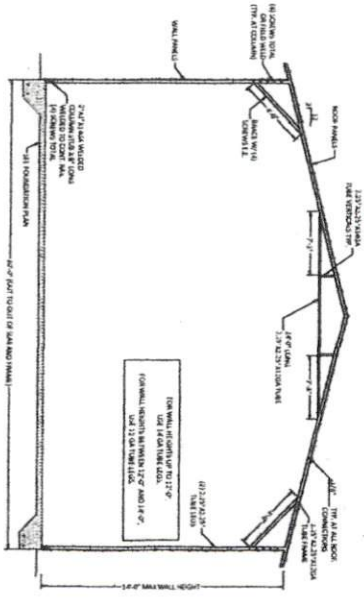
FOUNDATION PLAN
N.T.S.



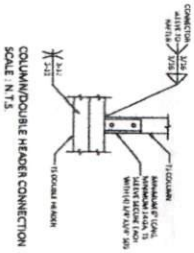
FRAMING PLAN
N.T.S.



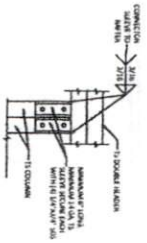
SIDE ELEVATION
N.T.S.



SECTION B-B
N.T.S.



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



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

NOTICE TO CONTRACTOR
All work shall be performed to comply with current NC Building Codes and is subject to field inspection and verification.
APPROVED
Limited building only review
Permit holder responsible for full compliance with the code
02/07/2022
Harnett COUNTY NORTH CAROLINA

First pages contain engineers seal.
Second set is legible.

DESIGN DATE:	05/12/2021
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	KAV
SCALE:	NTS
PAGE:	2

CONTRACTOR:
CAPITOL BUILDINGS

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

GUNDERSON ENGINEERING

GUNDERSON ENGINEERING LLC
4161 TAMIAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
www.gundersonengineering.com

PROJECT NO. 2110495

NORTH CAROLINA PROFESSIONAL SEAL 048404 ENGINEER

Craig E. Gunderson, P.E. #048404
LICENSE # P-2016 DATE: 09/13/2021

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) Vx = 2.4 k (PER FRAME)
Vy = 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 GUAGE METAL FRAMES SHALL BE 55 KSI, FOR RAW AND GALVANIZED TUBES.
3. MINIMUM YIELD STRENGTH OF THE STEEL USED FOR LIGHT GUAGE 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 LLC
4161 TAMIAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
www.gundersonengineering.com
LICENSE # P-2016

GUNDERSON ENGINEERING

PROJECT NO. 2110495

CONTRACTOR: CAPITOL BUILDINGS

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

DESIGN DATE:	05/12/2021
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	KHV
SCALE:	NTS

PAGE: 1

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) Vx = 2.4 k (PER FRAME)
Vy = 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 GUAGE METAL FRAMES SHALL BE 55 KSI, FOR RAW AND GALVANIZED TUBES.
3. MINIMUM YIELD STRENGTH OF THE STEEL USED FOR LIGHT GUAGE 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-MATING 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.

Craig E. Gunderson, P.E. #048404
DATE: 05/12/2021

GUNDERSON ENGINEERING LLC
4161 TAMIAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
www.gundersonengineering.com
LICENSE # P-2016

GUNDERSON ENGINEERING

PROJECT NO. 2110495

CONTRACTOR: CAPITOL BUILDINGS

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

DESIGN DATE:	05/12/2021
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	KHV
SCALE:	NTS

PAGE : 1

GUNDERSON ENGINEERING LLC
4161 TAMIAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
www.gundersonengineering.com

PROJECT NO. 2110495

LICENSE # P-2016

Craig E. Gunderson, P.E. #048404

DATE: 05/12/2021

CONTRACTOR: CAPITOL BUILDINGS

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

DESIGN DATE:	05/12/2021
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	KHV
SCALE:	NTS
PAGE :	1