



STRUCTURAL PLANS

Structure Size: 40'x51'x16'

Customer: Richard Mitchell

Address: 212 Hobby Creek Lane, Holly springs NC 27540

Prepared For:

SUPERIOR METAL STRUCTURES & CONCRETE, LLC

Prepared By:

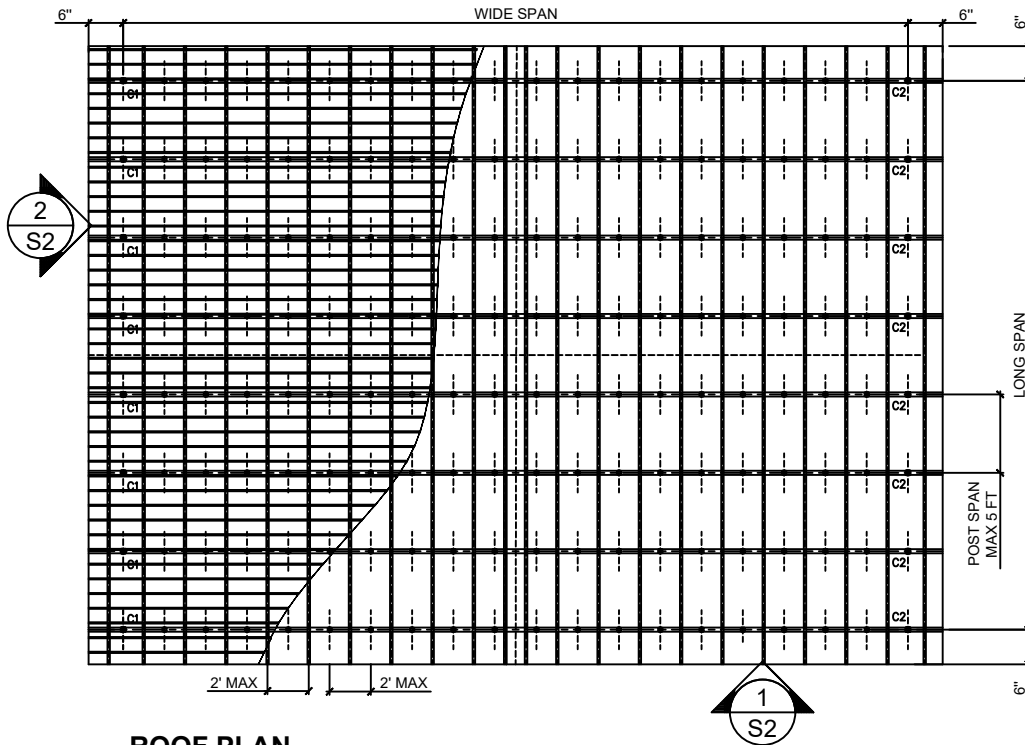


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**THESE STRUCTURAL ENGINEERED PLANS ARE TO BE INCLUDED IN YOUR
PERMIT APPLICATION AND STRUCTURE IS TO BE BUILT BY SUPERIOR METAL
STRUCTURES & CONCRETE, LLC**

910.298.3774



ROOF PLAN
NTS

GENERAL NOTES

- 1) ALL STRUCTURAL STEEL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH NOTES AND DETAILS ON THESE DRAWINGS; DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL CONFORM IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE 2018, INTERNATIONAL BUILDING CODE (IBC) 2021, AND NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2016 (REAFFIRMED 2020).
- 2) ALLOWABLE SOIL PRESSURE 2000 PSF
- 3) WELDED WIRE FABRIC SHALL BE NEW BILLET STEEL, COLD DRAWN CONFORMING A815 AND SHALL BE SUPPLIED IN SHEET FORM
- 4) ALL WELDING SHALL BE ACCOMPLISHED USING E-70XX LOW-HYDROGEN ELECTRODES AND AWS CERTIFIED WELDERS IN COMPLIANCE WITH CURRENT AWS STANDARDS.
- 5) ALL WELDS SHALL BE COATED WITH GALVANIZE PRIMER & PAINT AFTER WELDING
- 6) THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
- 7) GALVANIZED STRUCTURAL TUBING STEEL SHALL CONFORM TO ASTM A123 AND/OR A153
- 8) THE MINIMUM YIELD STRENGTH OF THE TUBE STEEL SHALL BE (Fy:55,000 PSI)
- 9) THE MINIMUM YIELD STRENGTH OF METAL DECK SHALL BE (Fy:80,000 PSI)
- 10) THE TUBE STEEL FOR COLUMNS SHALL BE 2 1/4" SQUARE GAUGE 14 FOR COLUMNS UP TO 10 FT TALL AND GAUGE 12 FOR 12' AND ABOVE
- 11) AT 150 MPH THE STRUCTURE SHALL BE BUILD WITH DOUBLE COLUMN SUPPORT
- 12) ALL TUBE STEEL CONNECTIONS SHALL BE BEARING TYPE USING #12X14X3/4" SELF DRILLING METAL SCREWS
- 13) DECKING SHALL BE GALVANIZED STEEL SHEET METAL STANDARD GA 29 FASTENED WITH (2) #12X14X3/4" SELF DRILLING METAL SCREWS WITH NEOPRENE WASHER, FOR RAFTER, HAT CHANNEL AND POST CONNECTION
- 14) THE CONCRETE DECK SHALL BE 3000 PSI CAPACITY AT 28 DAYS, AND THE SURFACE MUST BE LEVEL.CONTRACTOR RESPONSIBLE FOR MEETING THIS REQUIREMENT
- 15) BASE RAIL ANCHORAGE TO CONCRETE SHALL BE BEARING 1/2" ϕ WEDGE ANCHORS ASTM A325 OR SIMILAR HIGH STRENGTH BOLTS, UNLESS INDICATED OTHERWISE ON THE DRAWINGS



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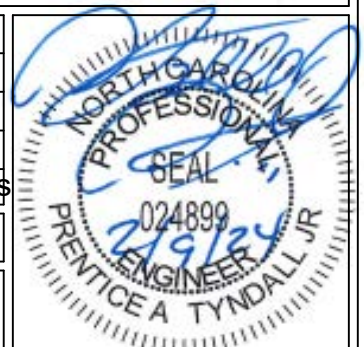
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| NO. | DATE | REVISIONS AND RECORD OF ISSUE | CHK. |
| NAME: | | Richard Mitchell | |
| ADDRESS: | | 212 Hobby Creek Ln, Holly Springs | |
| DRAWN: MR | CHECKED: PTII | DATE: 07/31/2023 | PROJECT #: 2201-010434D |

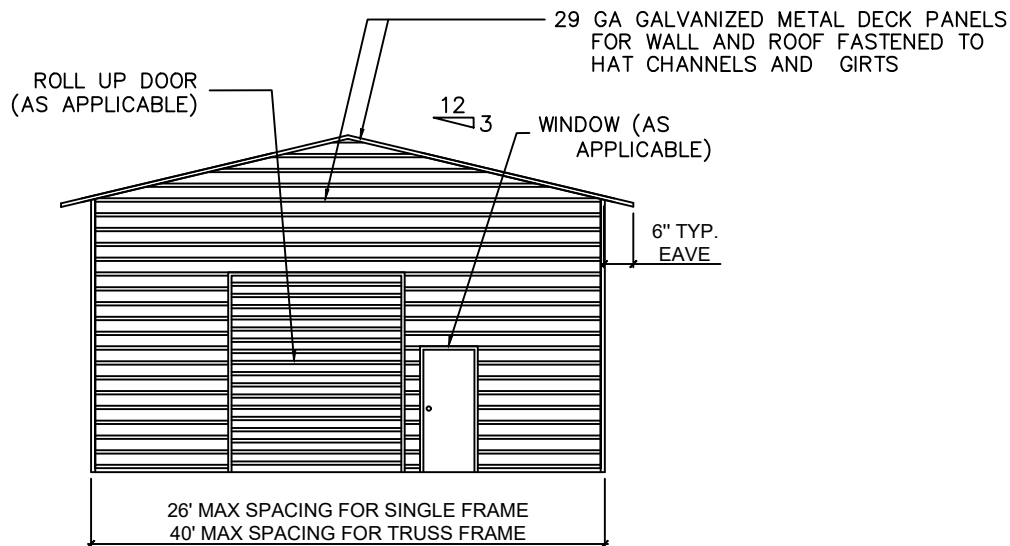
CLIENT: SUPERIOR MS&C,
LLC

PROJECT: ENCLOSED
BUILDING

DRAWING NUMBER:
1 of 23

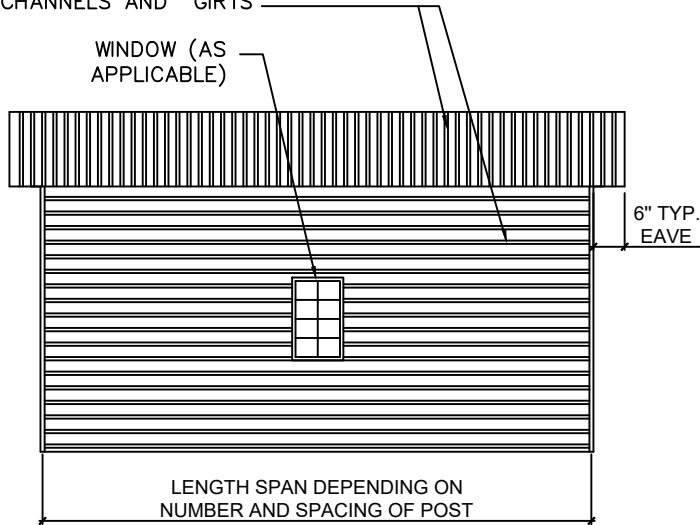
REV.:
A





1 TYPICAL ELEVATION
NO SCALE

29 GA GALVANIZED METAL DECK PANELS FOR WALL AND ROOF FASTENED TO HAT CHANNELS AND GIRTS



2 TYPICAL SIDE ELEVATION
NO SCALE

ELEVATION PLAN
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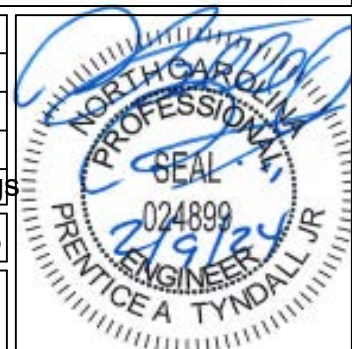
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BUILDING

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2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN

DESIGN LOADS:

IMPORTANCE FACTORS: WIND (Iw) 1.00
 SNOW (Is) 1.00
 SEISMIC (Ie) 1.00

DEAD LOADS: ROOF 10 PSF

LIVE LOADS: ROOF 20 PSF

GROUND SNOW LOAD: 20 PSF

GROUND LOAD: BASIC WIND SPEED 150 mph (ASCE 7-16) *DRIFT LOAD HAS NOT BEEN CALCULATE
 EXPOSURE CATEGORY B

SEISMIC DESIGN CATEGORY: B

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:

OCCUPANCY CATEGORY 1

SPECTRAL RESPONSE ACCELERATION Ss 20.0 %g S1 8.2 %g

SITE CLASSIFICATION D FIELD TEST PRESUMPTIVE HISTORICAL DATA

BASIC STRUCTURAL SYSTEM (CHECK ONE)

BEARING WALL DUAL W/ SPECTRAL MOMENT FRAME
 BUILDING FRAME DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL
 MOMENT FRAME INVERTED PENDULUM

ANALYSIS PROCEDURE SIMPLIFIED EQUIVALENT LATERAL FORCE MODAL

LATERAL DESIGN CONTROL EARTHQUAKE WIND

SOIL BEARING CAPACITIES:

PRESUMPTIVE BEARING CAPACITIES: 2,000 PSF

GENERAL NOTES: SEE PAGE 1



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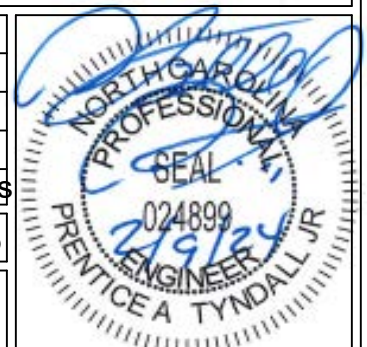
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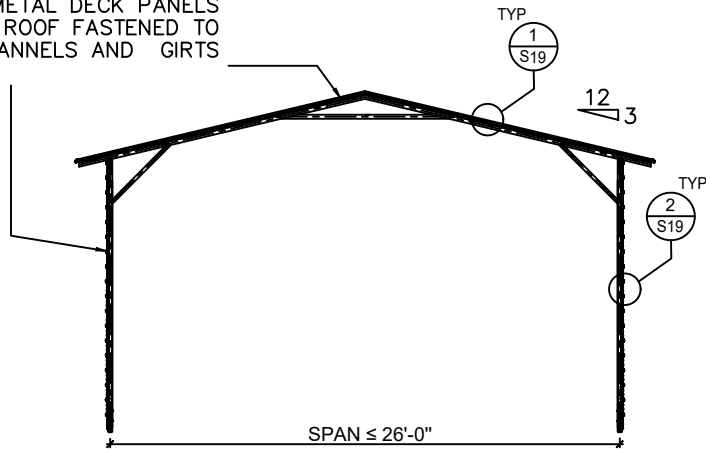
PROJECT: ENCLOSED
BUILDING

DRAWING NUMBER:
3 of 23

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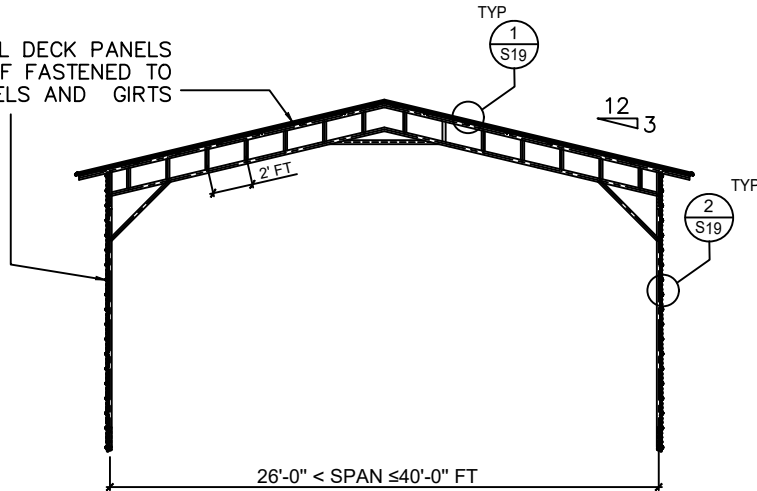


29 GA GALVANIZED METAL DECK PANELS
FOR WALL AND ROOF FASTENED TO
HAT CHANNELS AND GIRTS



1 TYPICAL SINGLE FRAME SECTION
NO SCALE **A**

29 GA GALVANIZED METAL DECK PANELS
FOR WALL AND ROOF FASTENED TO
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1 TYPICAL TRUSS FRAME ELEVATION
NO SCALE **B**

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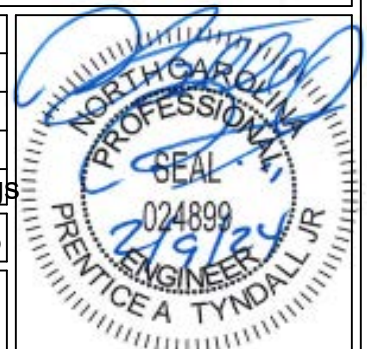
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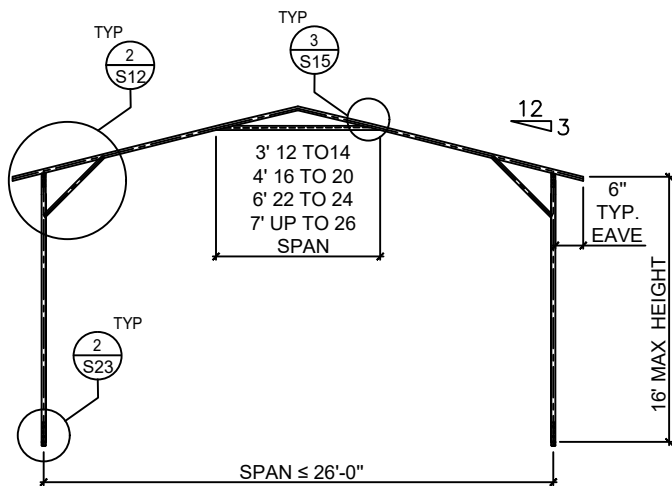
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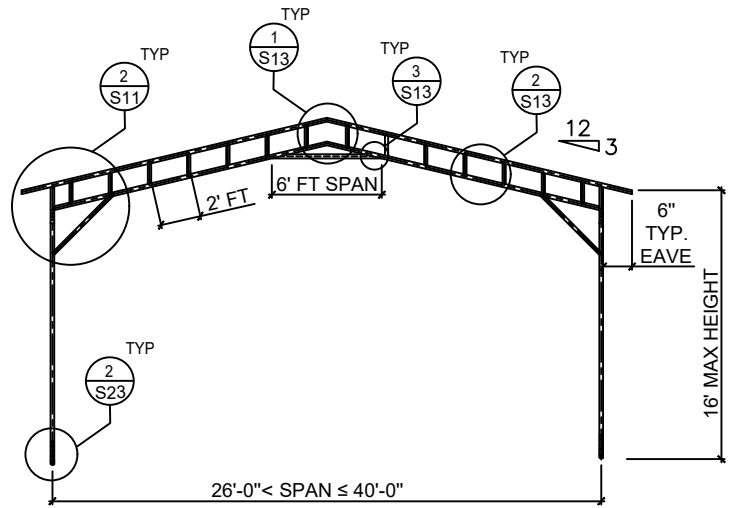
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REV.:
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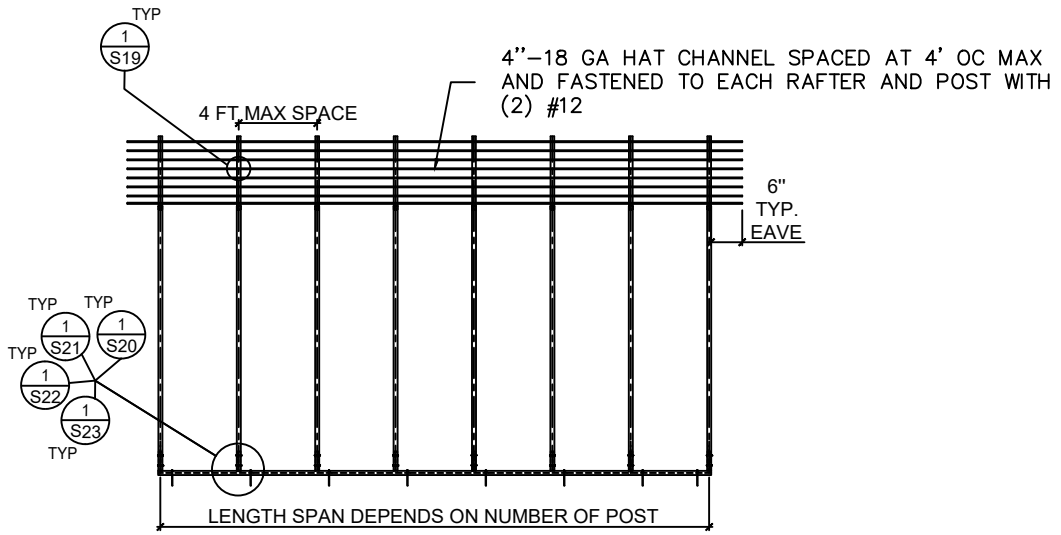




1 TYPICAL SINGLE FRAME SECTION
NO SCALE **A**



1 TYPICAL TRUSS FRAME SECTION
NO SCALE **B**



2 TYPICAL SIDE SINGLE FRAME SECTION
NO SCALE

ELEVATION PLAN
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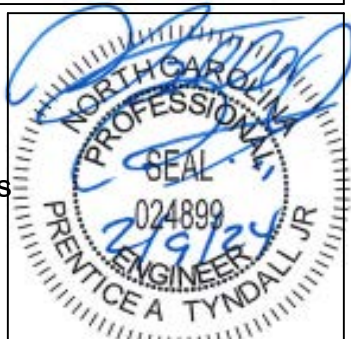
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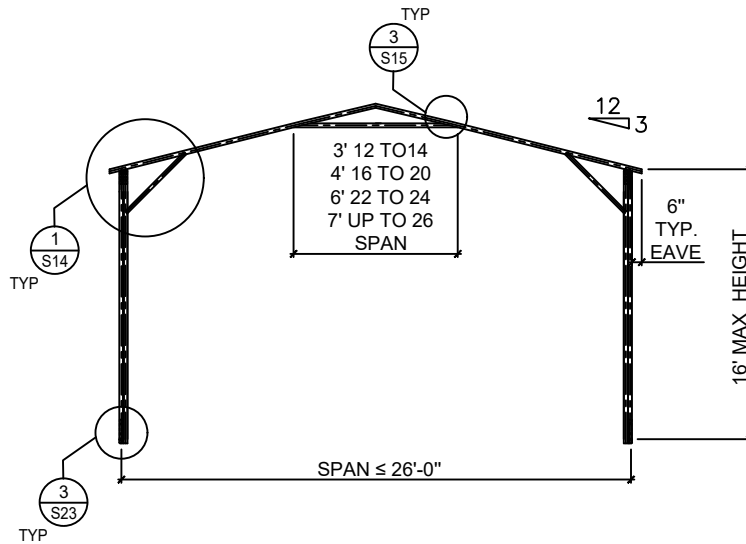
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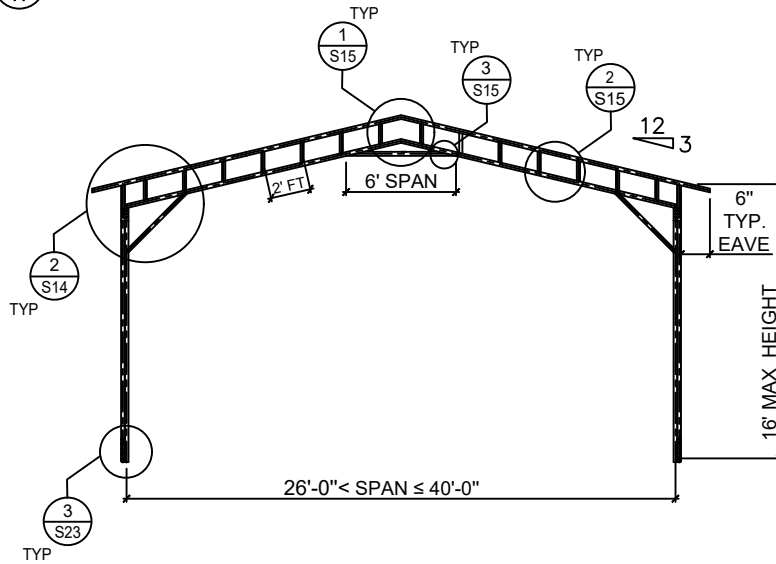
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DRAWING NUMBER: 5 of 23
REV. A





1 TYPICAL SINGLE FRAME DOUBLE SECTION FOR WIND SPEED $105 < T_0 \le 150$ MPH
NO SCALE A



1 TYPICAL TRUSS FRAME DOUBLE SECTION FOR WIND SPEED $105 < T_0 \le 150$ MPH
NO SCALE B

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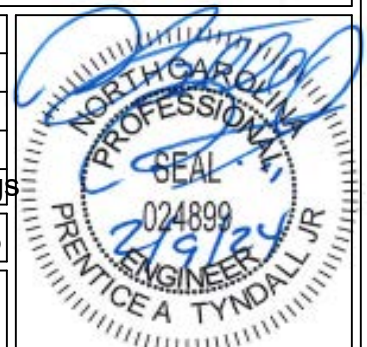
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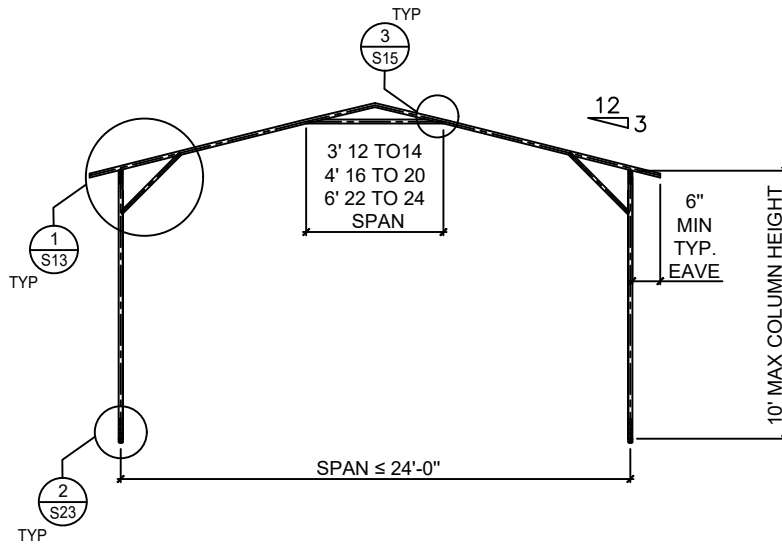
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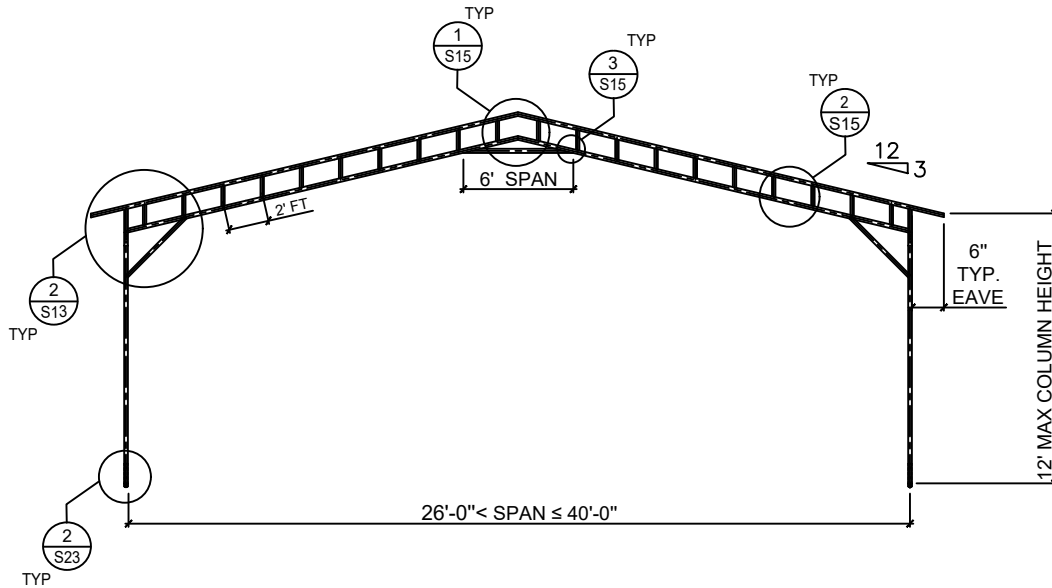
DRAWING NUMBER:
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REV.
A





1 TYPICAL SINGLE FRAME SINGLE SECTION FOR WIND SPEED UP TO 130 MPH
NO SCALE A



1 TYPICAL TRUSS FRAME SINGLE SECTION FOR WIND SPEED 130 MPH TO 150 MPH
NO SCALE B

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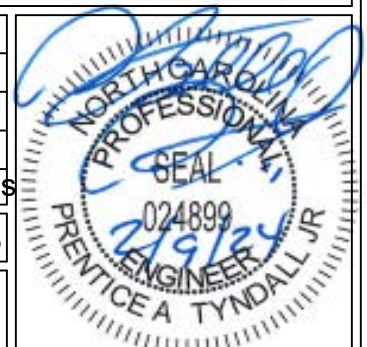
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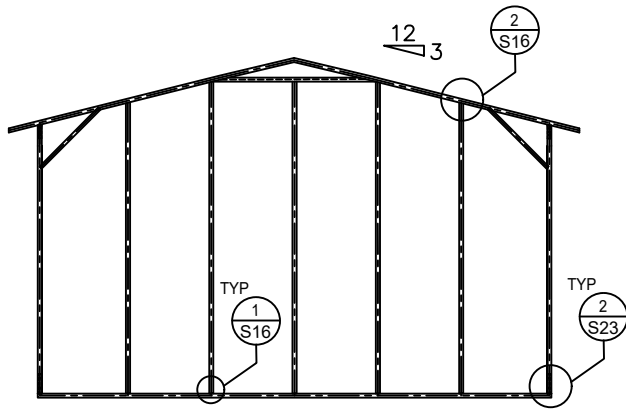
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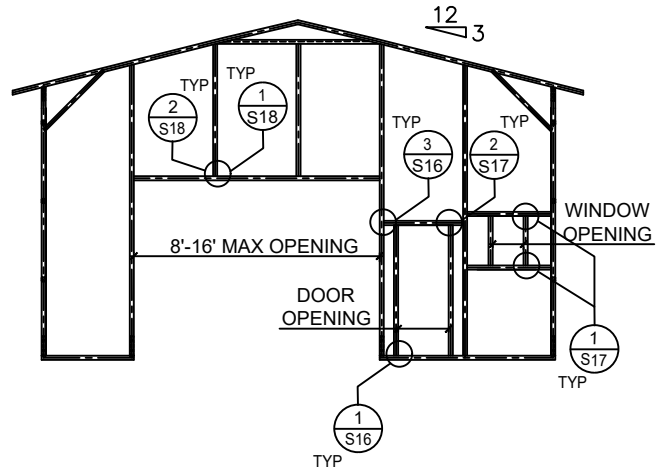
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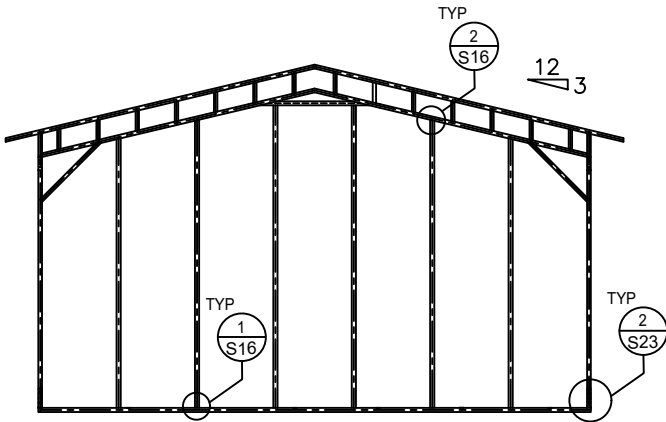




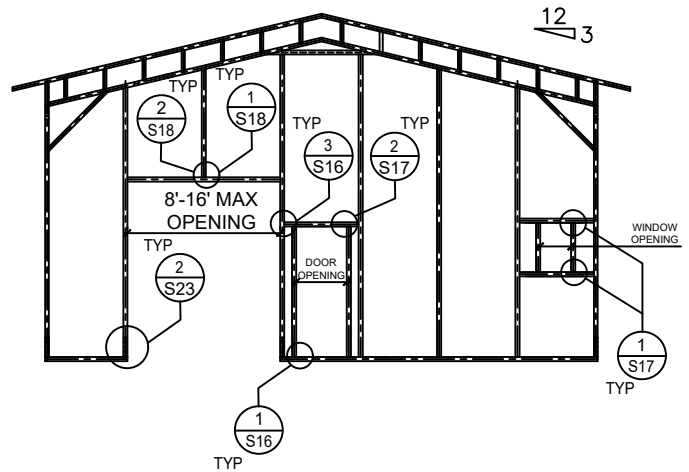
1 TYPICAL SINGLE FRAME ELEVATION
NO SCALE **A**



1 FRAME ELEVATION W/ GARAGE DOOR, DOOR AND WINDOW FRAME
NO SCALE **B**



2 TYPICAL TRUSS FRAME ELEVATION
NO SCALE **A**



2 FRAME ELEVATION W/ GARAGE DOOR, DOOR AND WINDOW FRAME
NO SCALE **B**

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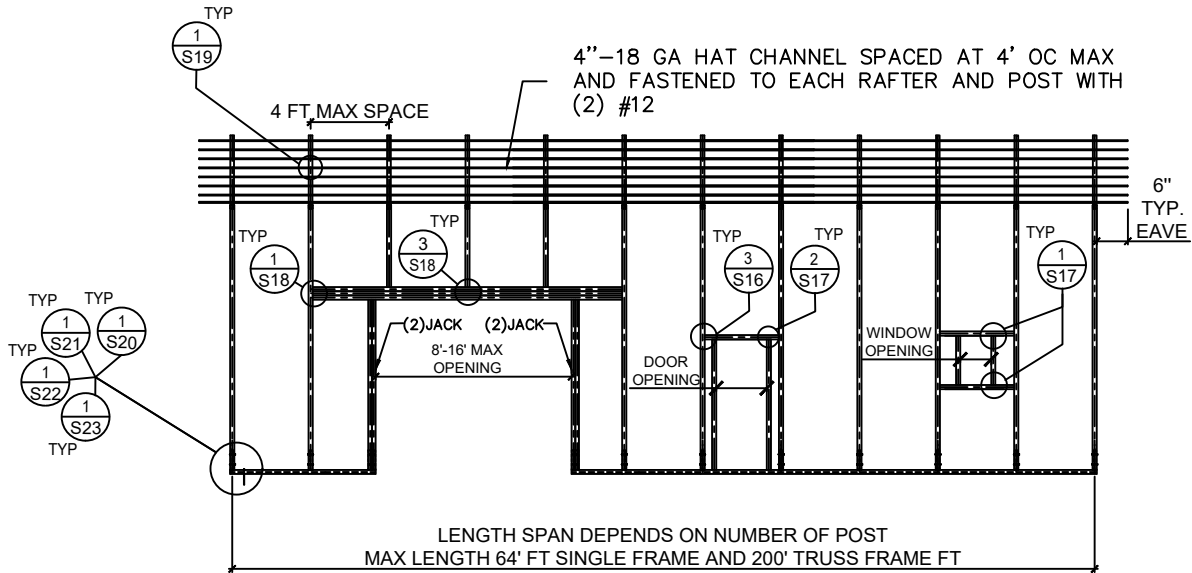


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REV.:
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1 FRAME SIDE ELEVATION W/ GARAGE DOOR, DOOR AND WINDOW FRAME
NO SCALE

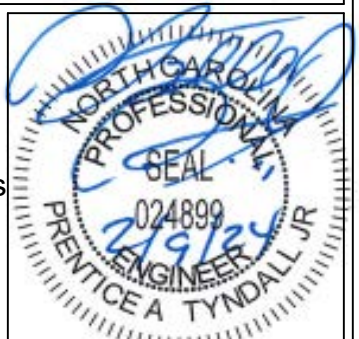
ELEVATION PLAN
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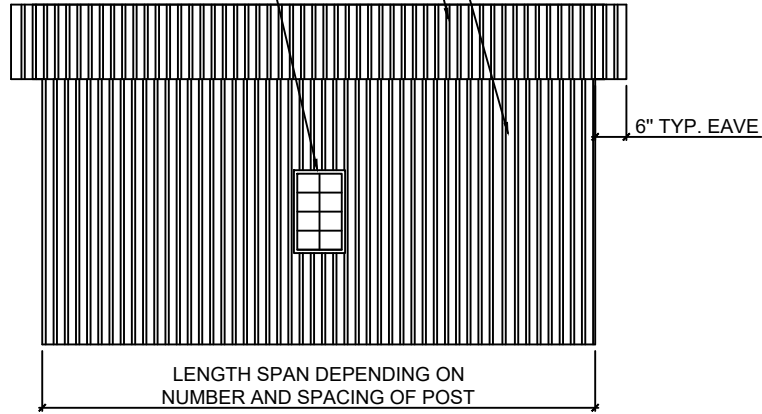
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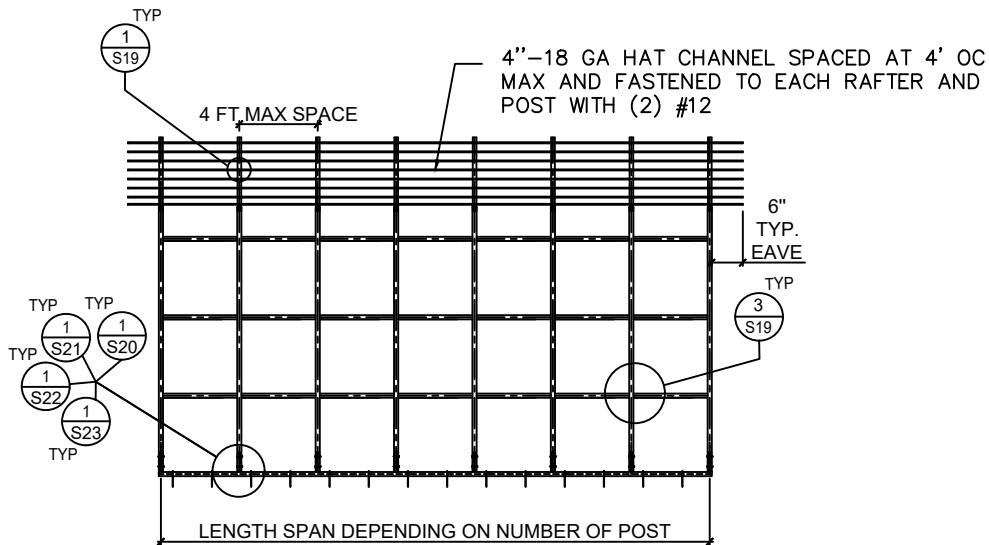
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29 GA GALVANIZED METAL DECK PANELS
FOR WALL AND ROOF FASTENED TO HAT
CHANNELS AND GIRTS

WINDOW (AS APPLICABLE)



1 TYPICAL SIDE ELEVATION FOR VERTICAL PANEL DECK
NO SCALE



2 TYPICAL SIDE ELEVATION FOR VERTICAL METAL PANEL DECK
NO SCALE

ELEVATION PLAN

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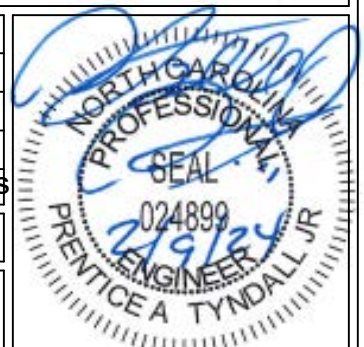
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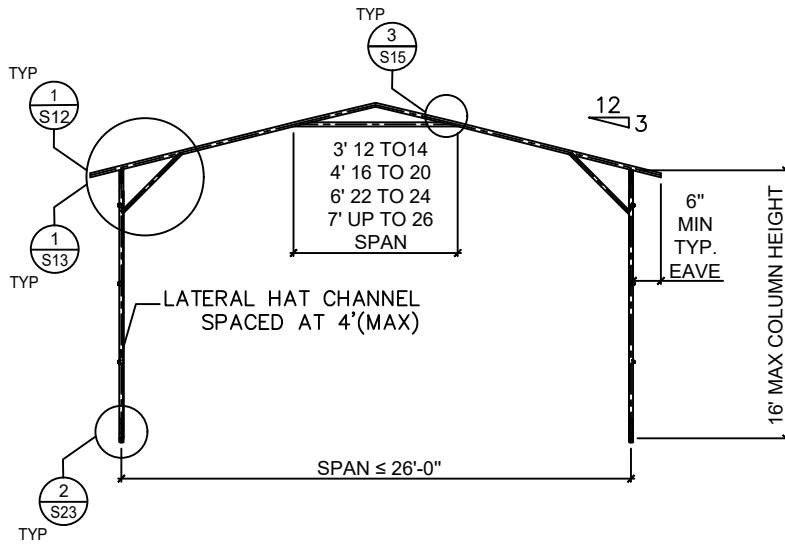
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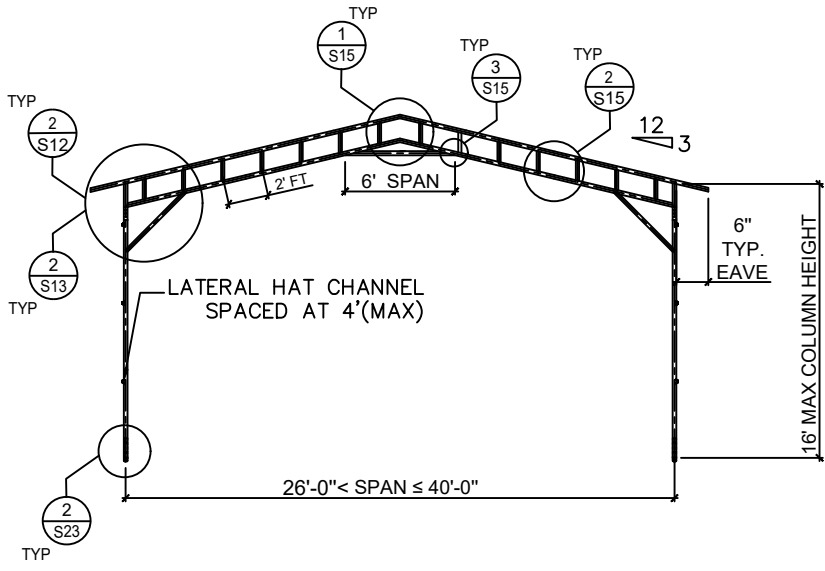
DRAWING NUMBER:
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REV.
A





1 TYPICAL SINGLE FRAME SECTION FOR VERTICAL PANEL DECK
NO SCALE C



1 TYPICAL TRUSS FRAME SECTION FOR VERTICAL PANEL DECK
NO SCALE D

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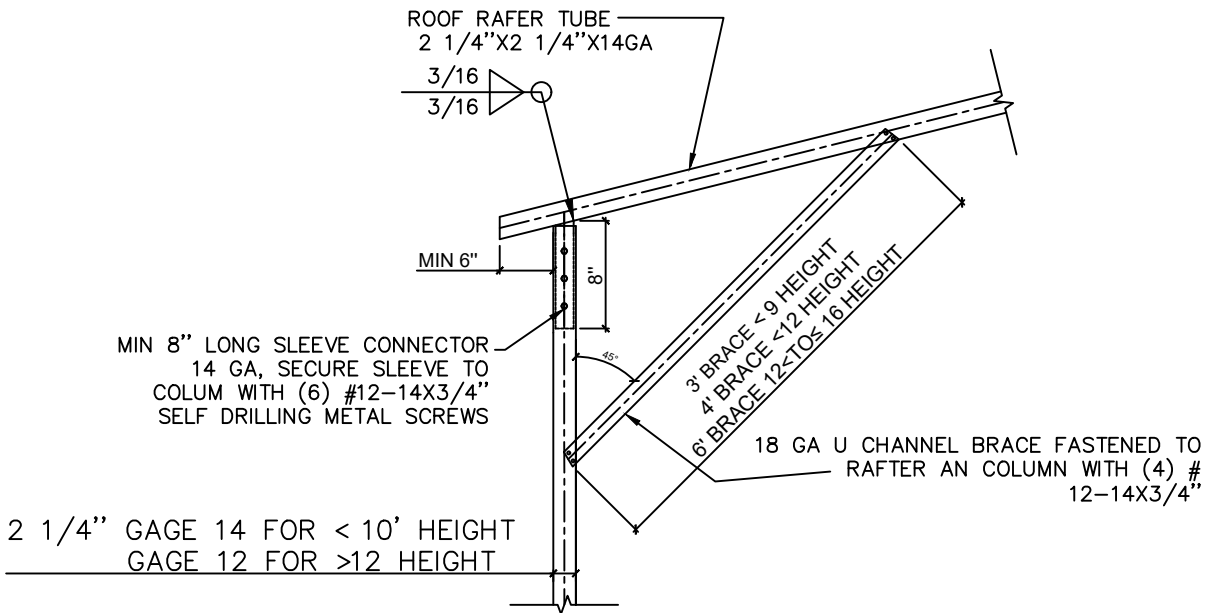


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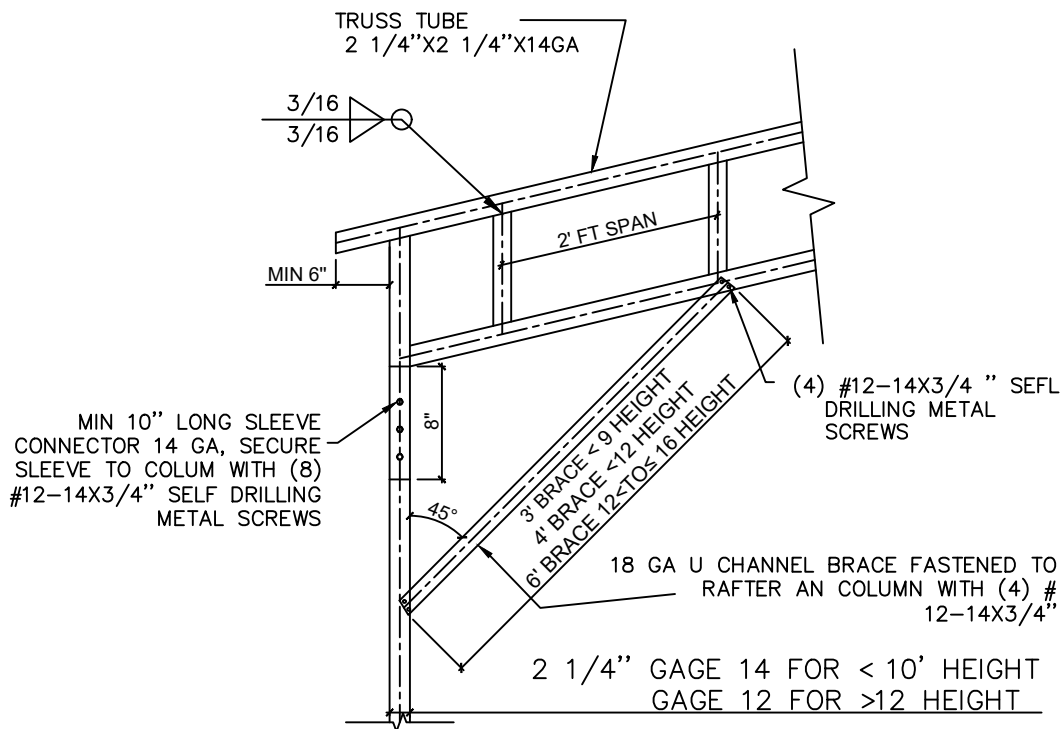
PROJECT: ENCLOSED BUILDING

DRAWING NUMBER: 11 of 23

REV.: A



1 SINGLE FRAME RAFTER-COLUMN CONNECTION DETAIL
NO SCALE FOR WIND SPEEDS UP TO 120 MPH COLUMN HEIGHT ≤ 16 FT



2 TRUSS FRAME RAFTER-COLUMN CONNECTION DETAIL
NO SCALE FOR WIND SPEEDS UP TO 120 MPH COLUMN HEIGHT ≤ 16 FT

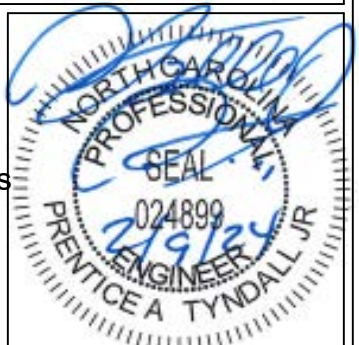
DETAILS
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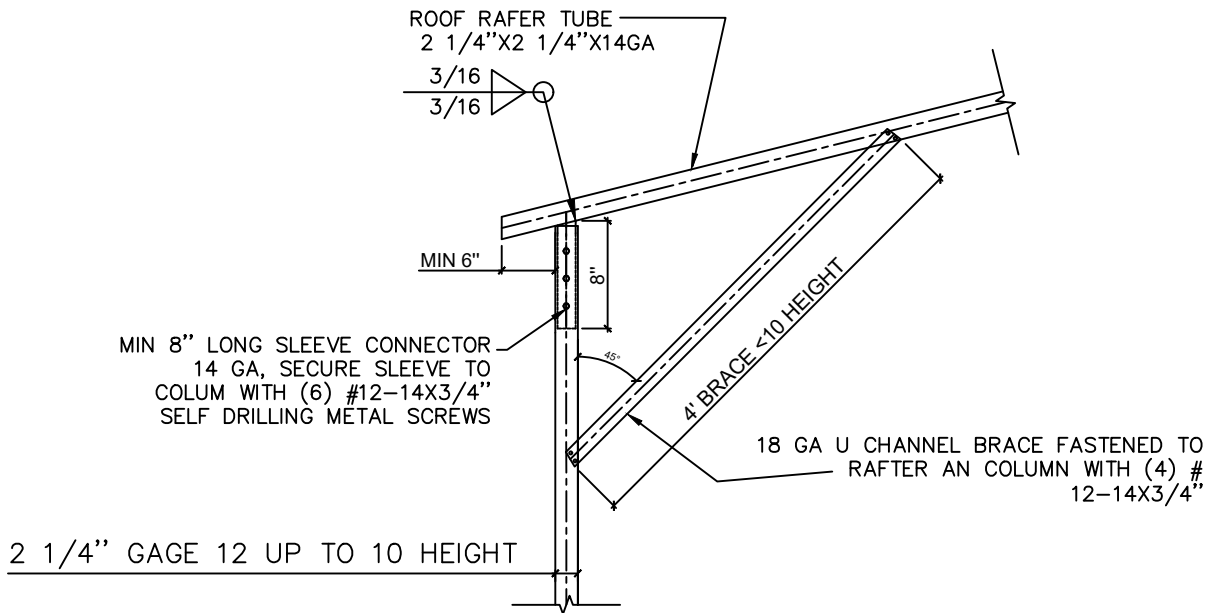
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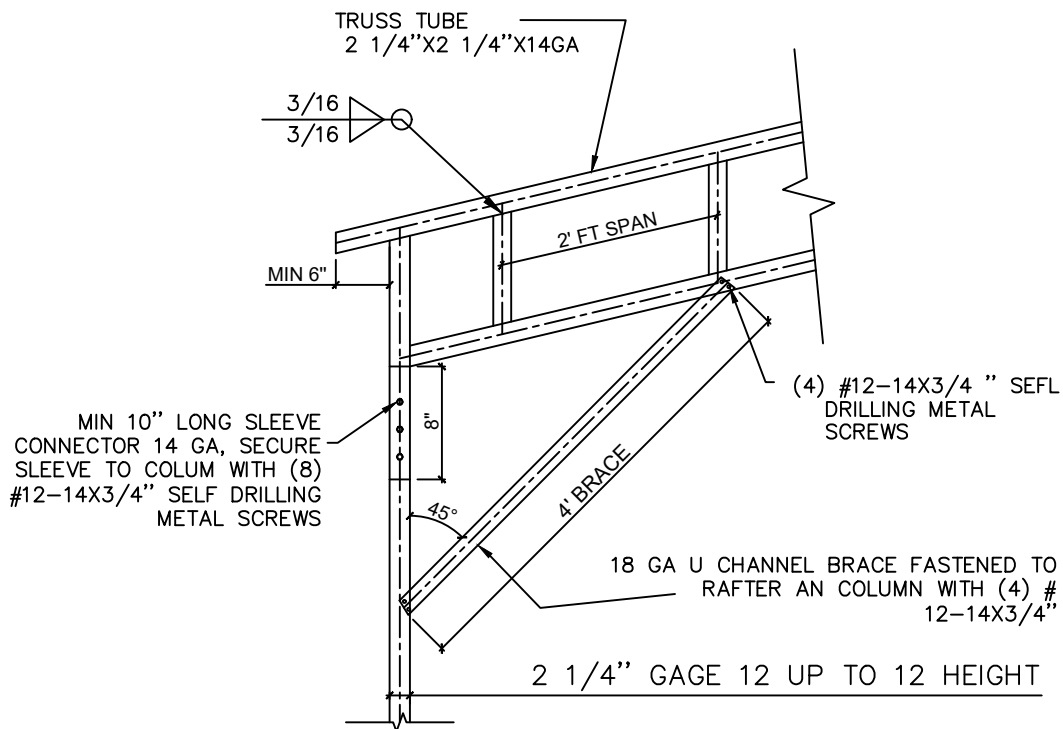
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1 SINGLE FRAME RAFTER-COLUMN CONNECTION DETAIL
NO SCALE FOR WIND SPEEDS UP TO 130 MPH COLUMN HEIGHT ≤ 10 FT



2 TRUSS FRAME RAFTER-COLUMN CONNECTION DETAIL
NO SCALE FOR WIND SPEEDS UP 130 TO 150 MPH COLUMN HEIGHT ≤ 12 FT

DETAILS
NTS



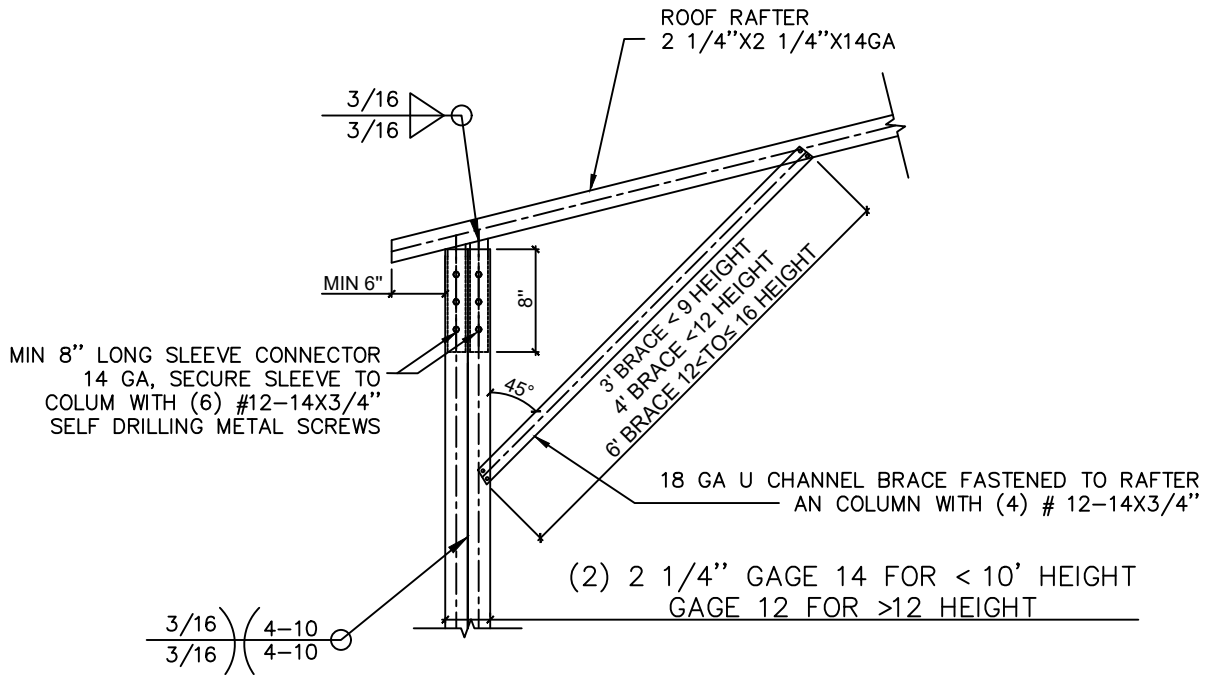
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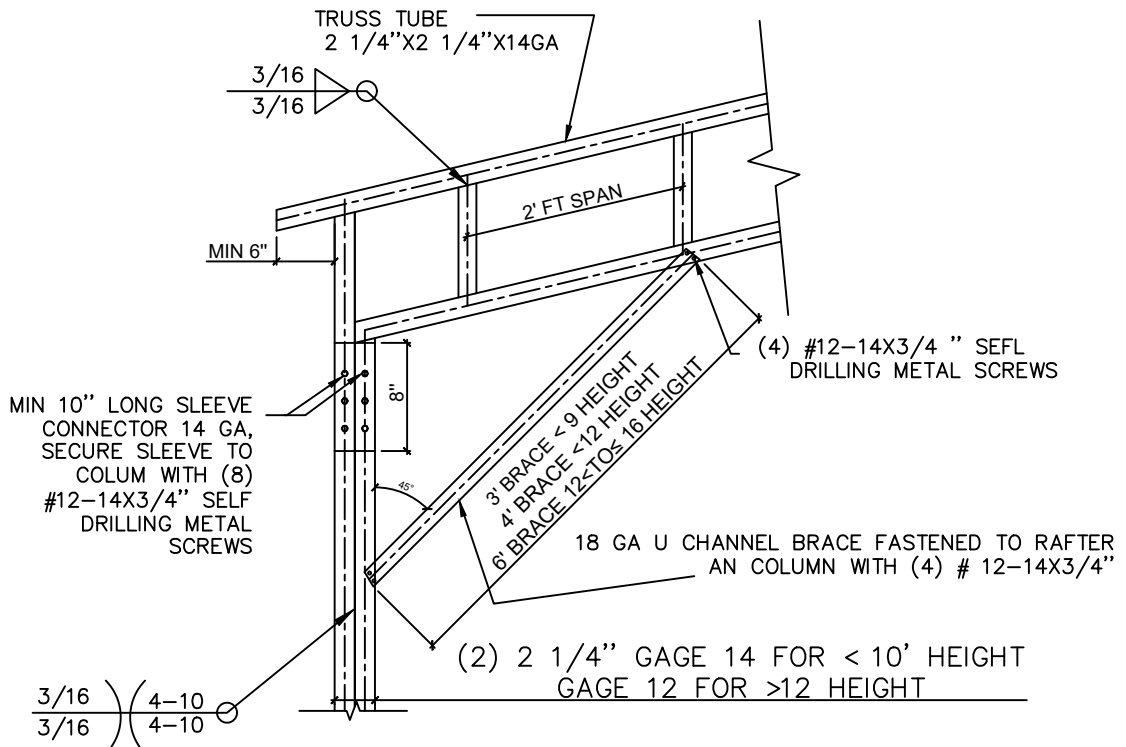
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| NAME: | | Richard Mitchell | |
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| MR | PTII | 07/31/2023 | 2201-010434D |

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| CLIENT: SUPERIOR MS&C, LLC | PROJECT: ENCLOSED BUILDING | DRAWING NUMBER: 13 of 23 | REV: A |
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1 SINGLE FRAME RAFTER- DOUBLE COLUMN CONNECTION DETAIL
 NO SCALE FOR WIND SPEEDS 130 TO 150 MPH COLUMN HEIGHT UP TO 16 FT



2 TRUSS FRAME RAFTER-DOUBLE COLUMN CONNECTION DETAIL
 NO SCALE FOR WIND SPEEDS 130 TO 150 MPH COLUMN HEIGHT UP TO 16 FT

DETAILS
 NTS



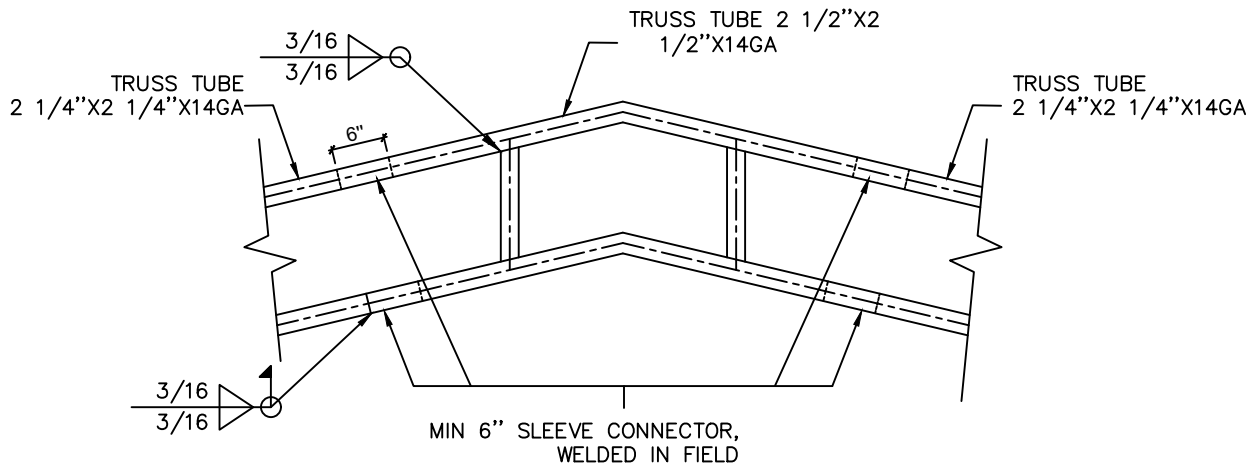
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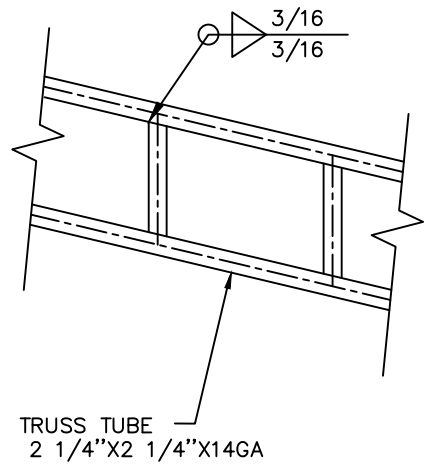
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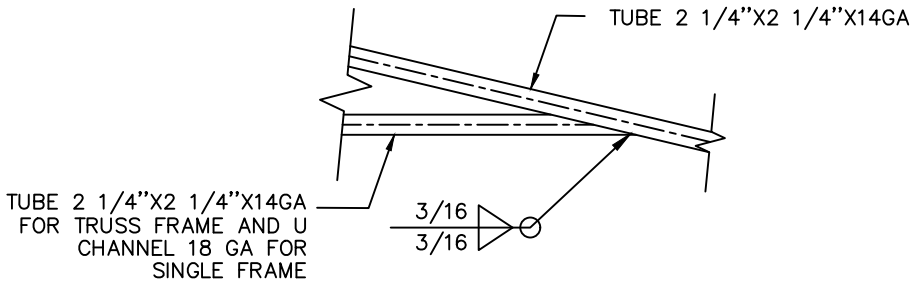




1 TRUSS-TRUSS CONNECTION DETAIL
NO SCALE



2 TRUSS WELD DETAIL
NO SCALE



3 SINGLE FRAME WELD DETAIL
NO SCALE

DETAILS
NTS

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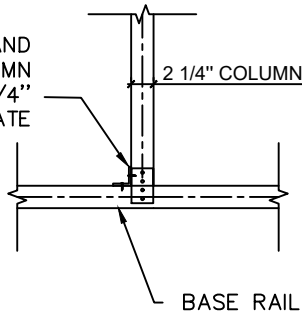


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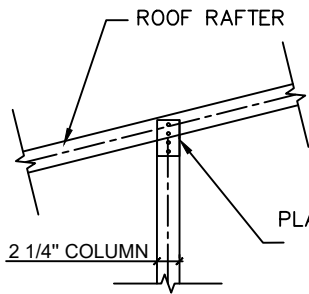
PROJECT: ENCLOSED BUILDING
DRAWING NUMBER: 15 of 23

REV.: A

2"X2"X2 1/4"-14 GA (1) FLAT PLATE AND (1) ANGLE PLATE TO SECURE COLUMN TO BASE RAIL WITH (4) #12-14X3/4" SELF DRILLING SCREWS ON EACH PLATE

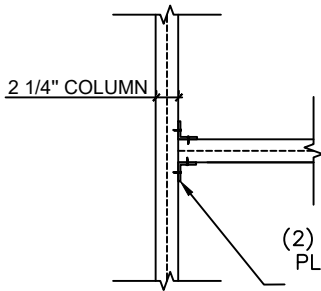


1 FLAT PLATE CONNECTION COLUMN TO BASE RAIL
NO SCALE



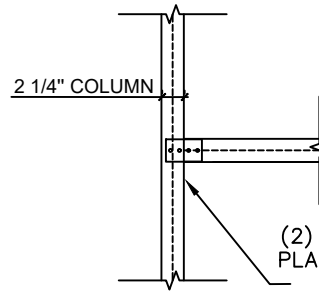
2"X2"X2 1/2"-14 GA FLAT PLATE TO SECURE COLUMN TO BASE RAIL WITH (4) #12-14X3/4" SELF DRILLING SCREWS

2 FLAT PLATE RAFTER-COLUMN CONNECTION DETAIL
NO SCALE



(2) 2"X2"X2 1/2"-14 GA ANGLE PLATE TO SECURE COLUMN TO BASE RAIL WITH (4) #12-14X3/4" SELF DRILLING SCREWS

3A ANGLE PLATE HEADER-COLUMN CONNECTION DETAIL
NO SCALE



(2) 2"X2"X2 1/2"-14 GA FLAT PLATE TO SECURE COLUMN TO BASE RAIL WITH (4) #12-14X3/4" SELF DRILLING SCREWS

3B FLAT PLATE HEADER-COLUMN CONNECTION DETAIL
NO SCALE

DETAILS

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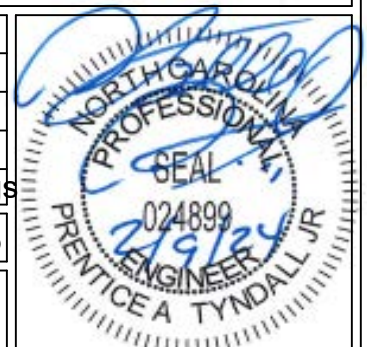
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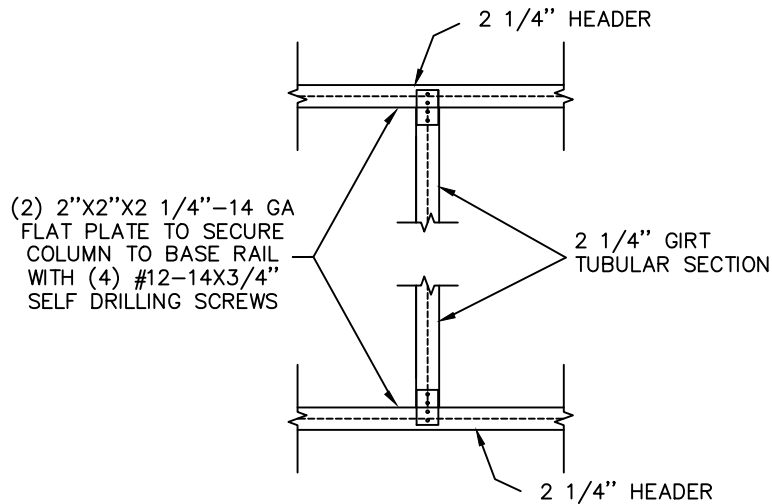
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PROJECT: ENCLOSED BUILDING

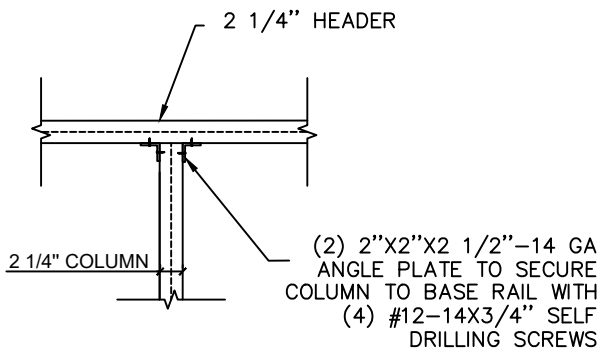
DRAWING NUMBER:
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REV.
A

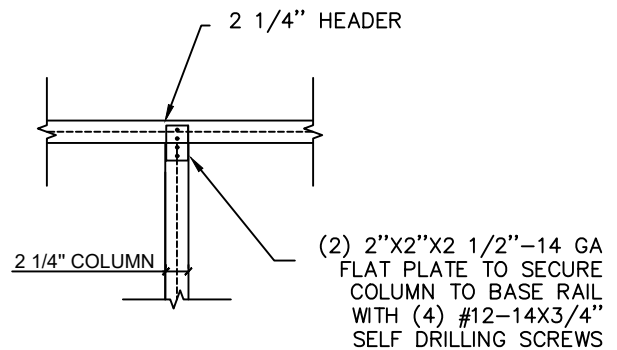




1 FLAT PLATE HEADER CONNECTION FOR WINDOW DETAIL
NO SCALE



2 ANGLE PLATE DOOR COLUMN-HEADER CONNECTION DETAIL
NO SCALE **A**



2 FLAT PLATE DOOR COLUMN-HEADER CONNECTION DETAIL
NO SCALE **B**

DETAILS

NTS



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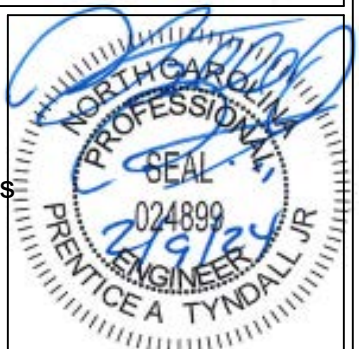
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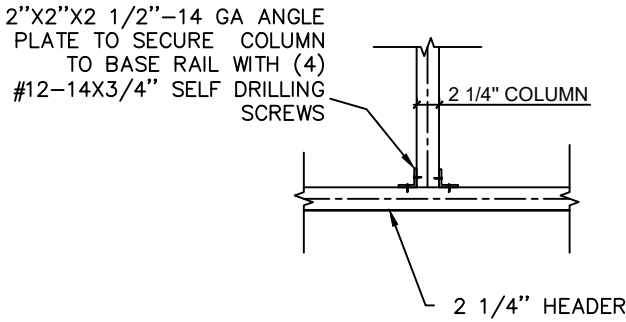
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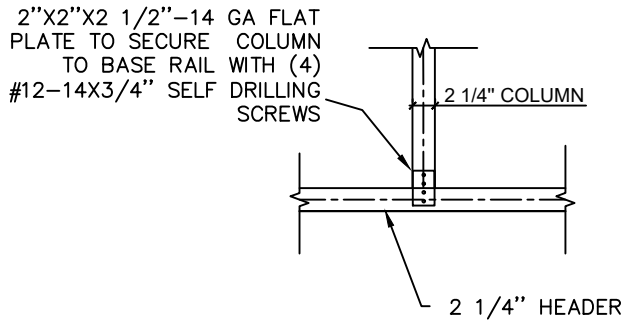
DRAWING NUMBER:
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REV.
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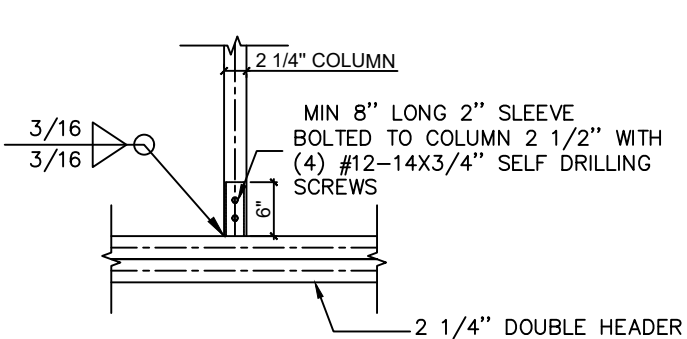




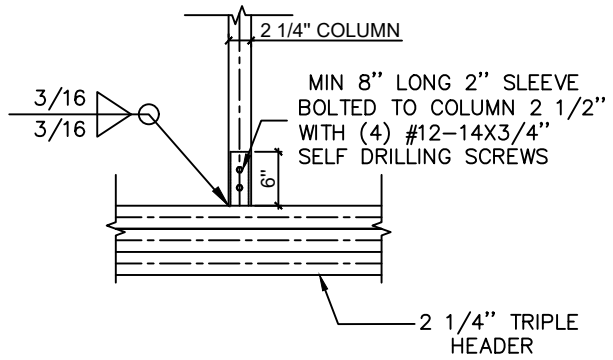
1 ANGLE PLATE CONNECTION COLUMN-HEADER
NO SCALE **A** FOR 9'X8' OR 10X8 ROLLER DOOR SPAN UP TO 9 FT



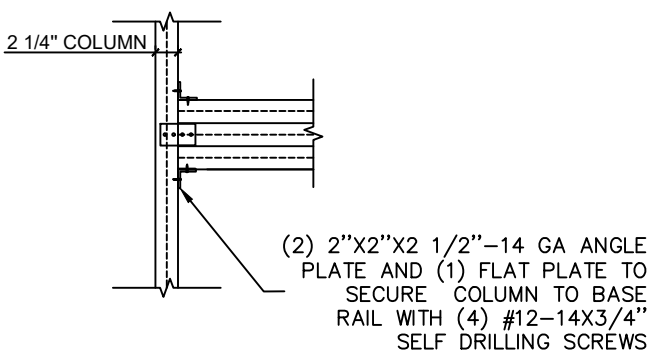
1 FLAT PLATE CONNECTION COLUMN-HEADER
NO SCALE **B** FOR 9'X8' OR 10X8 ROLLER DOOR SPAN UP TO 9 FT



2 DOUBLE HEADER-COLUMN CONNECTION DETAIL
NO SCALE FOR 10'X10' ROLLER DOOR OR SPAN OPENING 10 TO 16 FT



3 DOUBLE HEADER-COLUMN CONNECTION DETAIL
NO SCALE FOR SIDE ROLLER DOOR OPENING



4 ANGLE PLATE TRIPLE HEADER-COLUMN CONNECTION DETAIL
NO SCALE FOR SIDE ROLLER DOOR OPENING

DETAILS
NTS

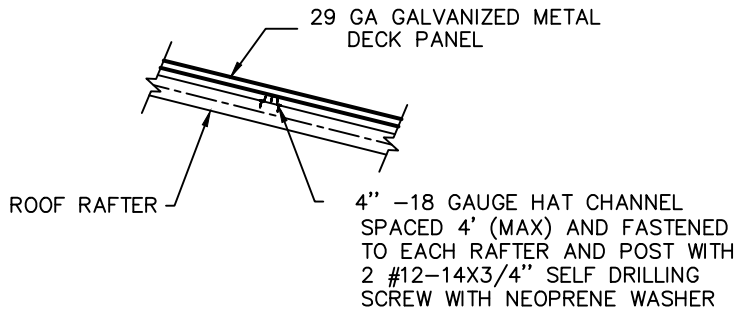
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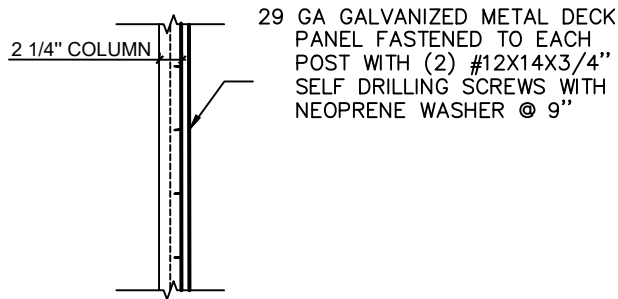
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PROJECT: ENCLOSED BUILDING
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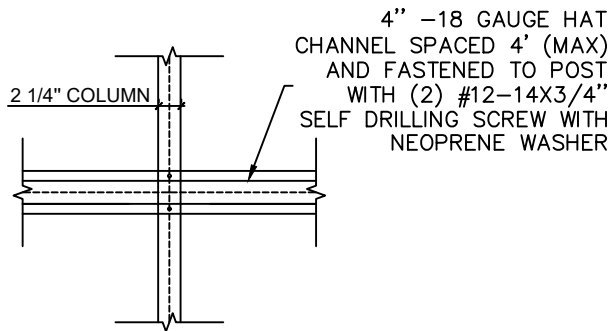




1 SINGLE FRAME RAFTER-COLUMN CONNECTION DETAIL
NO SCALE



2 DECKING-COLUMN CONNECTION
NO SCALE



3 HAT-COLUMN CONNECTION DETAIL FOR VERTICAL DECKING
NO SCALE



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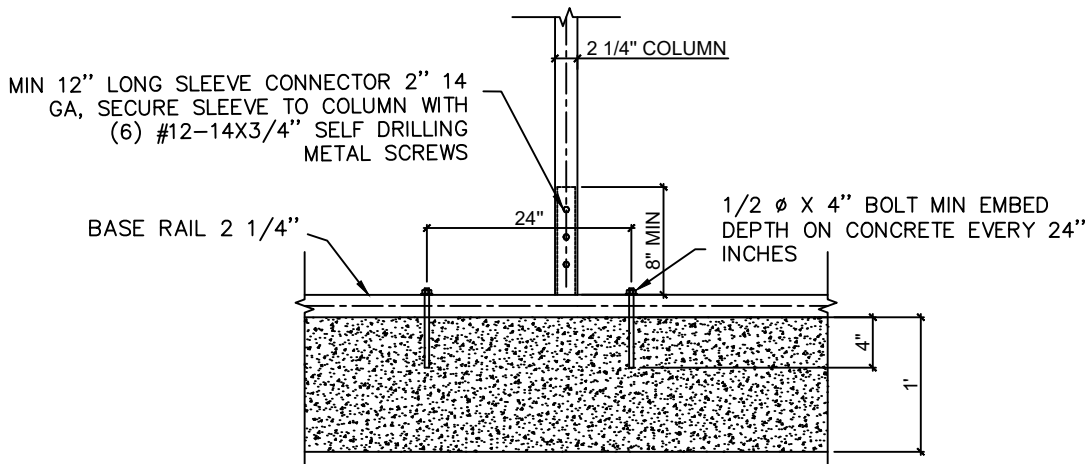
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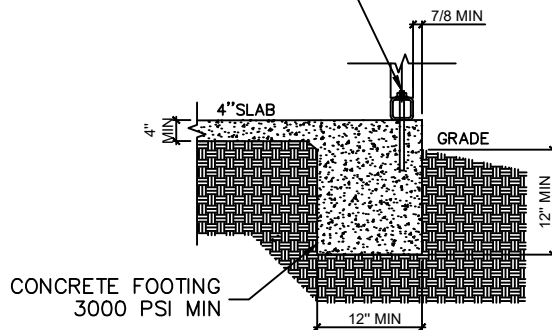
REV.
A





1 BASE RAIL ANCHOR CONNECTION DETAIL FOR WINDS UP 120 MPH
NO SCALE

1/2 ϕ X 4" BOLT MIN EMBED DEPTH ON CONCRETE EVERY 24" INCHES (0.7 FACTOR FOR ANCHOR W/MIN EDGE)



1 BASE RAIL ANCHOR LATERAL VIEW FOR WINDS UP 120 MPH
NO SCALE

DETAILS

NTS



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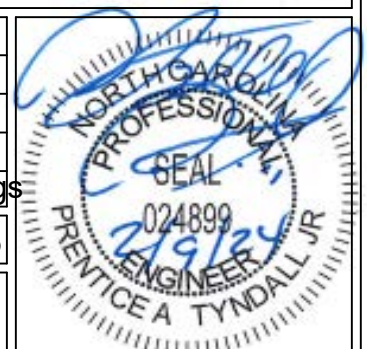
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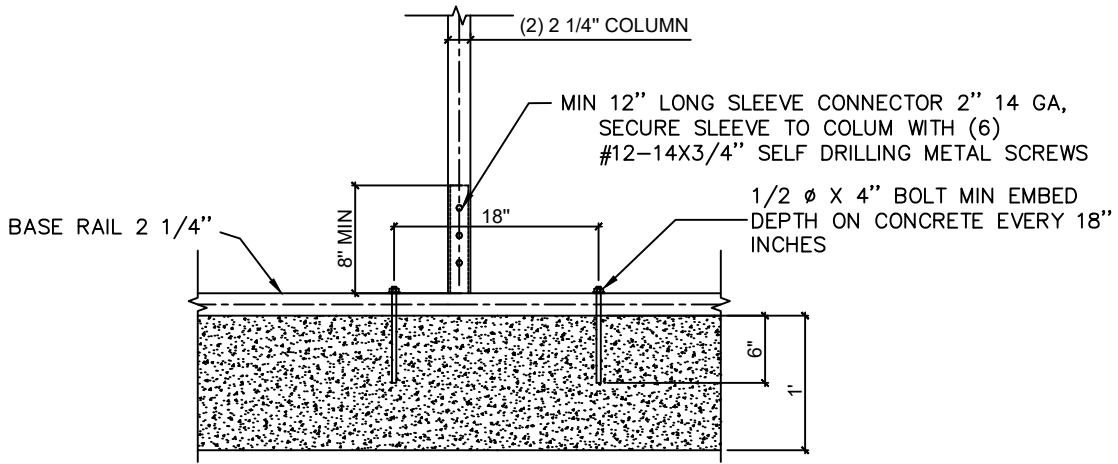
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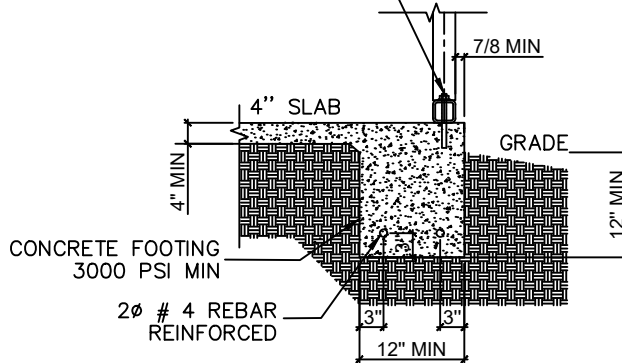
REV.
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1 COLUMN BASE RAIL ANCHOR CONNECTION DETAIL FOR WINDS 130 MPH TO 150 MPH
NO SCALE

1/2 ϕ X 4" BOLT MIN EMBED DEPTH ON CONCRETE EVERY 18" INCHES (0.7 FACTOR FOR ANCHOR W/MIN EDGE)



1 BASE RAIL ANCHOR LATERAL VIEW FOR WINDS 130 MPH TO 150 MPH
NO SCALE A

DETAILS

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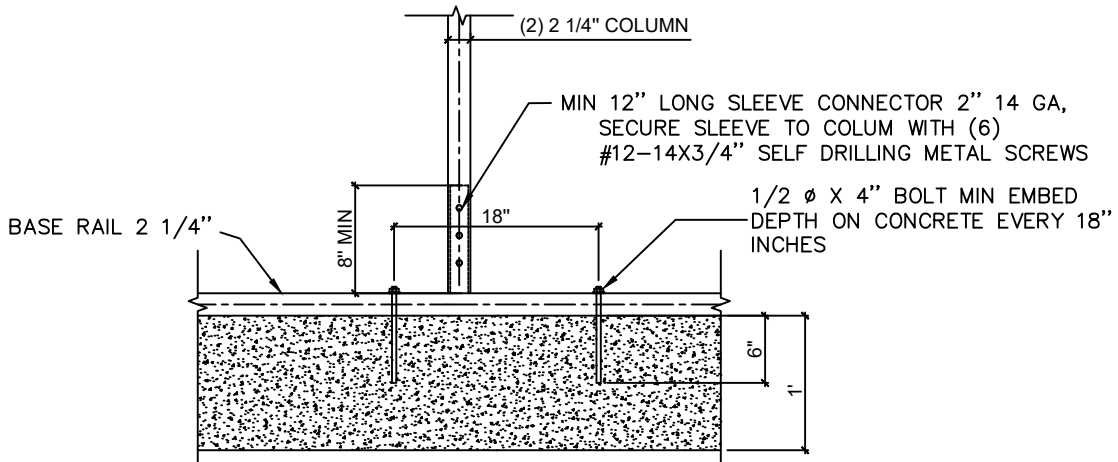
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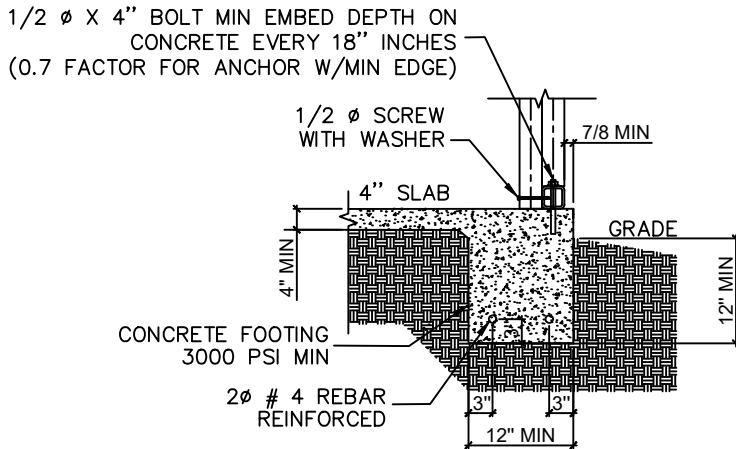
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REV.
A





1 DOUBLE COLUMN BASE RAIL ANCHOR CONNECTION DETAIL FOR WINDS 130 MPH TO 150 MPH
NO SCALE



1 BASE RAIL ANCHOR LATERAL VIEW FOR WINDS 130 MPH TO 150 MPH
NO SCALE

DETAILS

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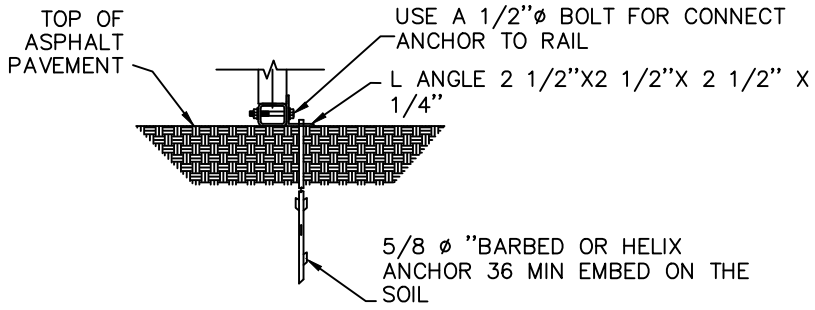
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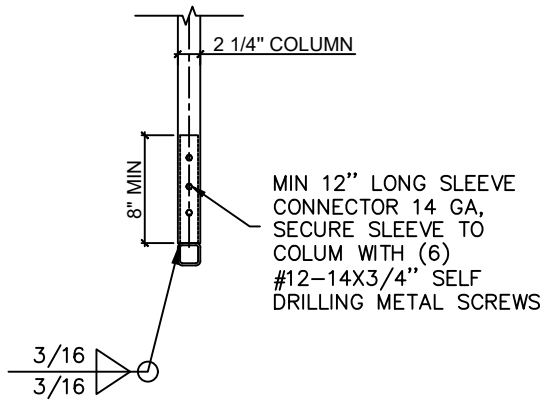
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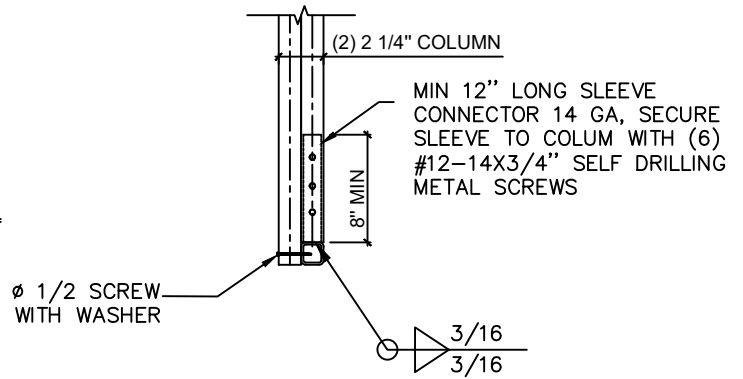




1 BASE RAIL ANCHORAGE WITH BARBED OR HELIX ANCHOR
NO SCALE



2 BASE RAIL-COLUMN CONNECTION DETAIL
NO SCALE



3 BASE RAIL-COLUMN CONNECTION DETAIL
NO SCALE



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