



STRUCTURAL PLANS

Structure Size: 40'x31x11'

Customer: Laura Matthews

Address: 25 Rick Circle, Angier, NC 27501

Prepared For:

SUPERIOR METAL STRUCTURES & CONCRETE, LLC

Prepared By:

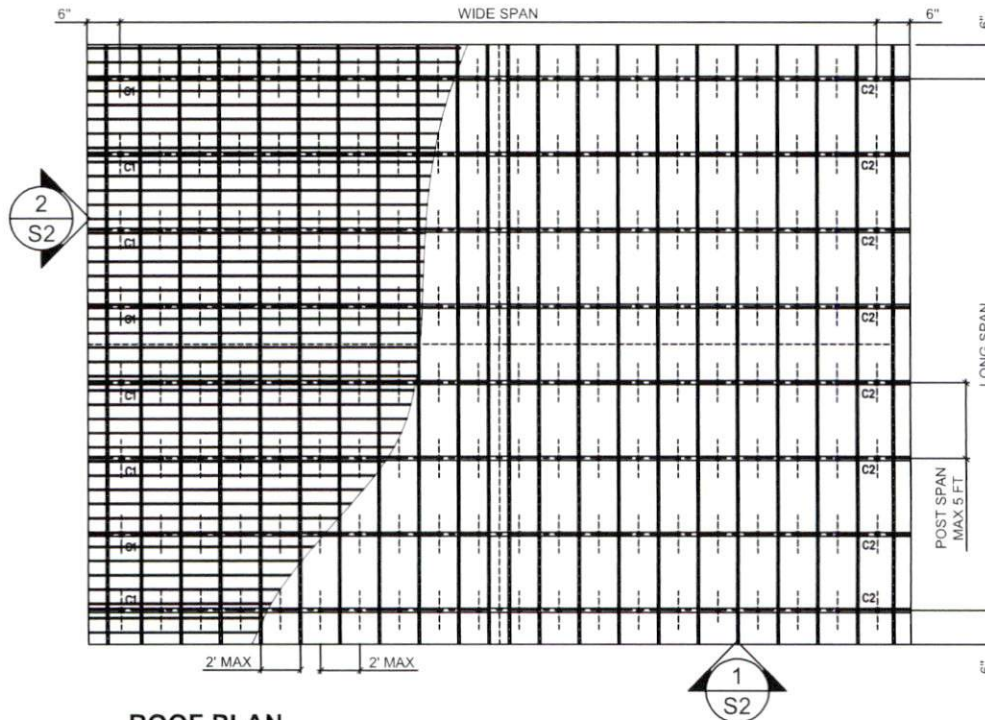


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250 SHIPWASH DR, GARNER, NC 27529

**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

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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 (F_y : 55,000 PSI)
- 9) THE MINIMUM YIELD STRENGTH OF METAL DECK SHALL BE (F_y : 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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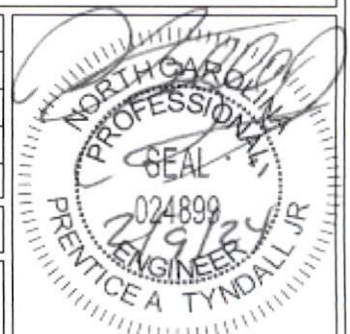
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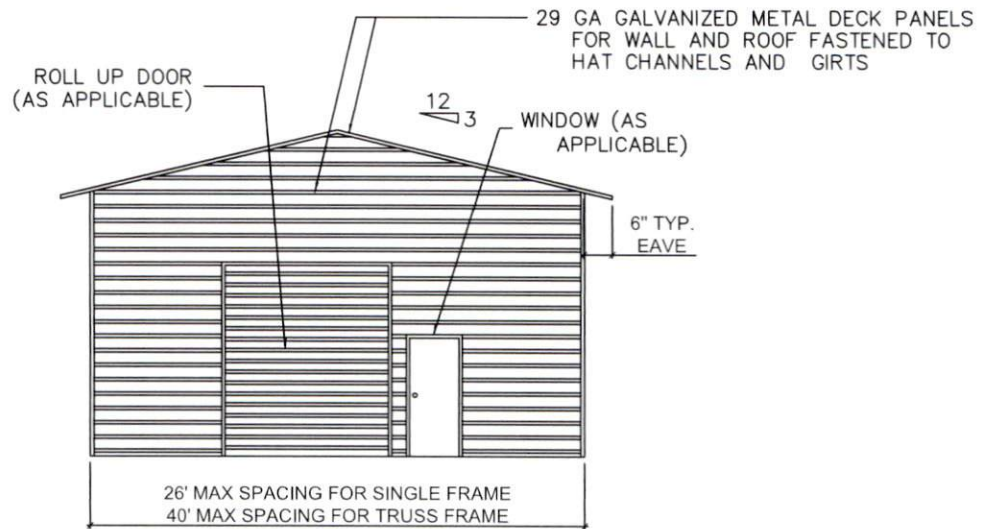
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NO.	DATE	REVISIONS AND RECORD OF ISSUE	CHK.
NAME:	Laura Matthews		
ADDRESS:	25 Rick Circle, Angier NC		
DRAWN: MR	CHECKED: PTII	DATE: 06/05/2023	PROJECT #: 2201-010434F

PROJECT: ENCLOSED
BUILDING

DRAWING NUMBER:
1 of 22

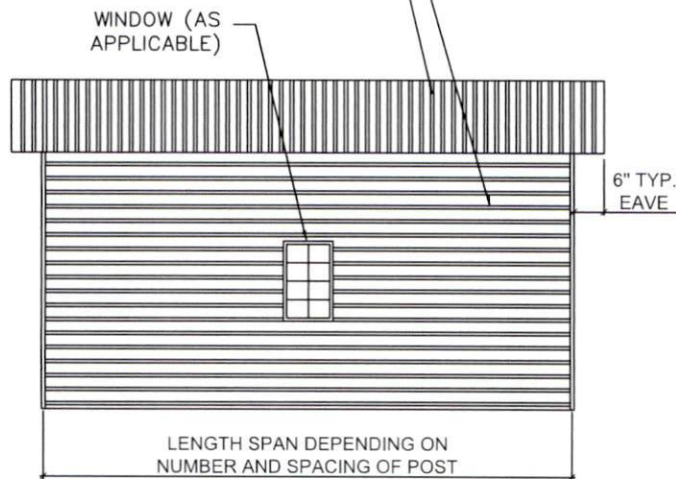
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1 TYPICAL ELEVATION
NO SCALE

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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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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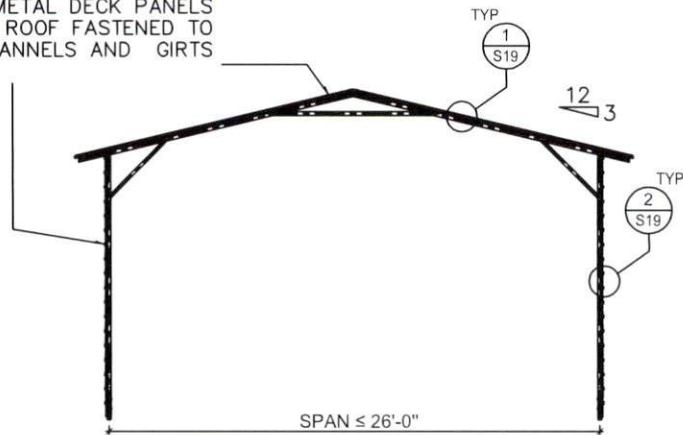
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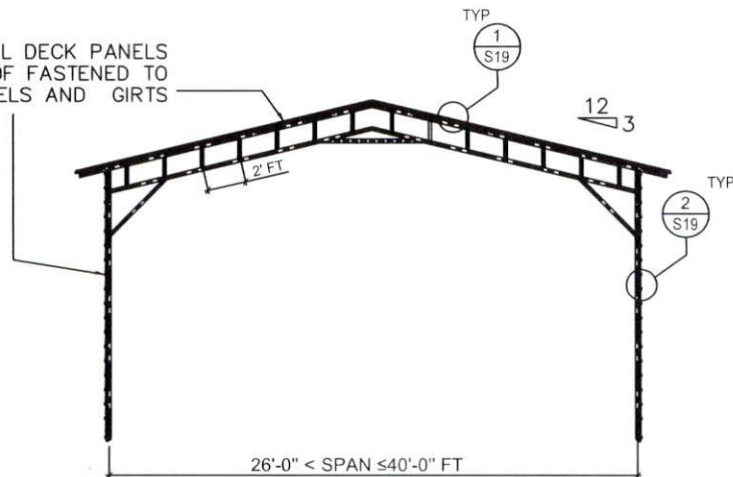


29 GA GALVANIZED METAL DECK PANELS
FOR WALL AND ROOF FASTENED TO
HAT CHANNELS AND GIRTS



1
A TYPICAL SINGLE FRAME SECTION
NO SCALE

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



1
B TYPICAL TRUSS FRAME ELEVATION
NO SCALE

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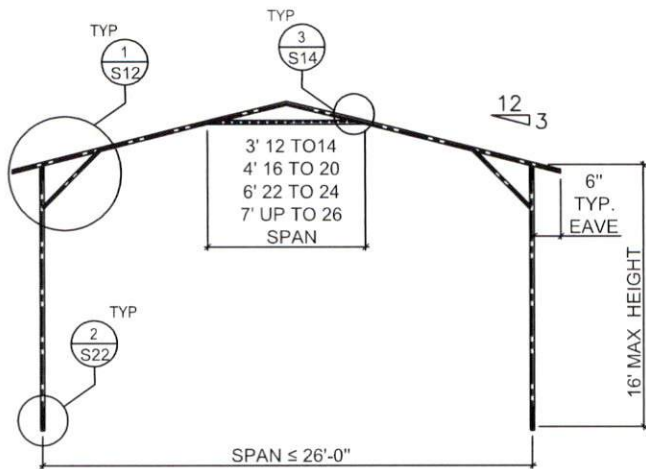
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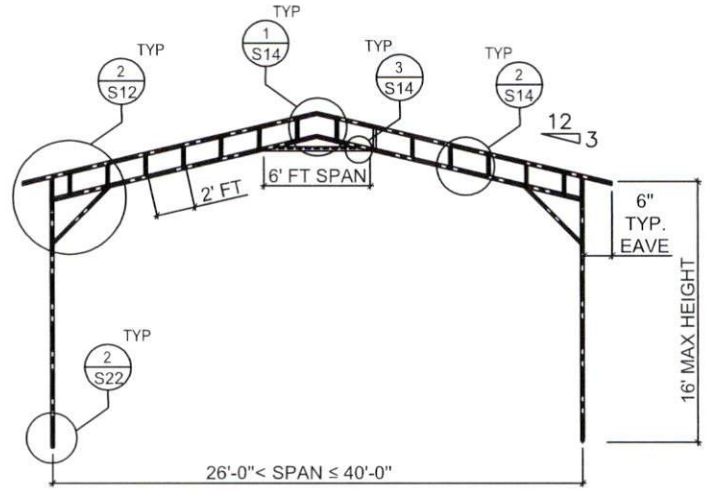
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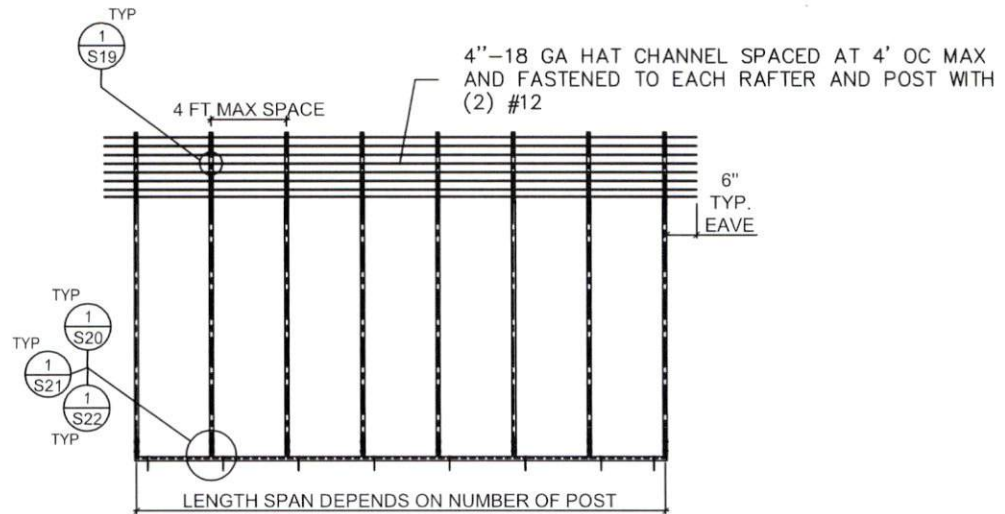




1 TYPICAL SINGLE FRAME SECTION
NO SCALE



1 TYPICAL TRUSS FRAME SECTION
NO SCALE



2 TYPICAL SIDE SINGLE FRAME SECTION
NO SCALE

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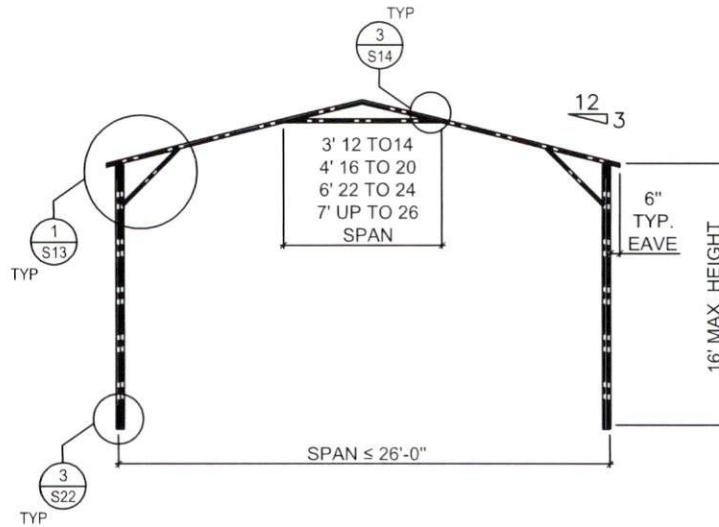
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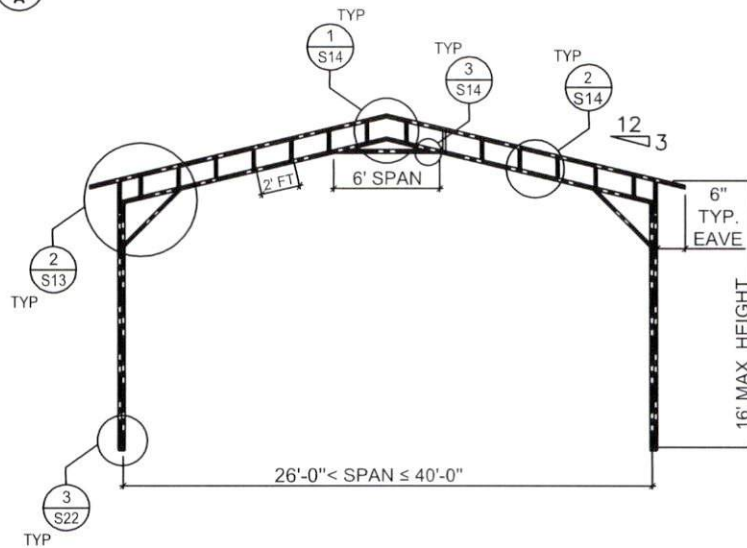
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1
A
TYPICAL SINGLE FRAME DOUBLE SECTION FOR WIND SPEED 105<TO≤150 MPH
NO SCALE



1
B
TYPICAL TRUSS FRAME DOUBLE SECTION FOR WIND SPEED 105<TO≤150 MPH
NO SCALE

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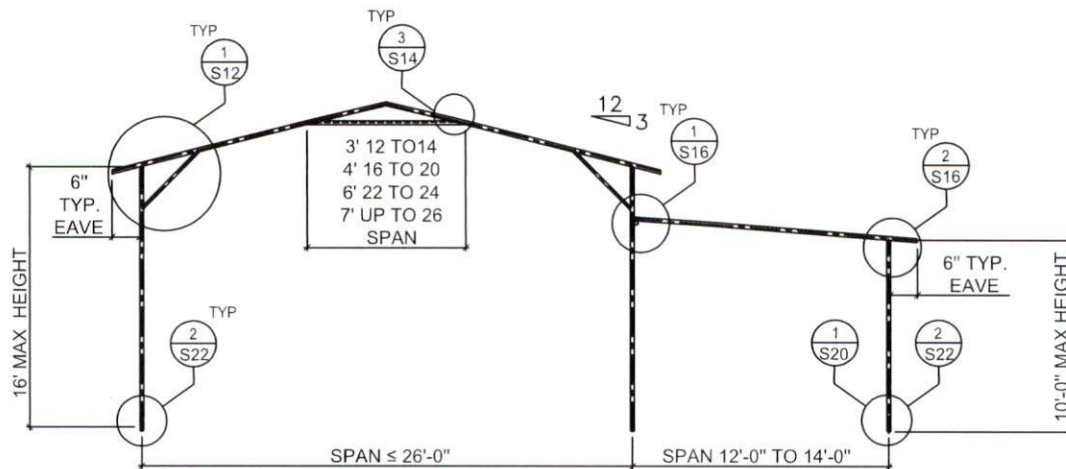
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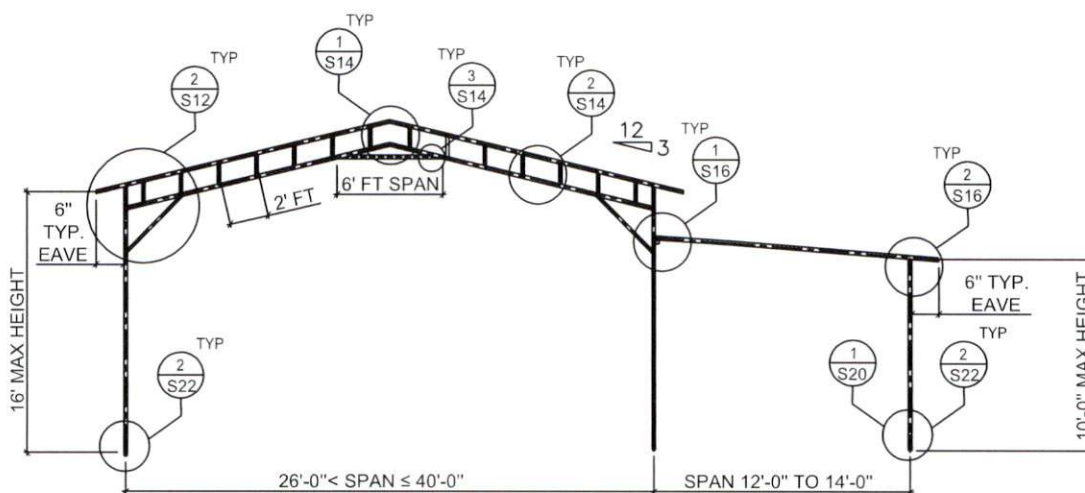
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1
A
TYPICAL SINGLE FRAME SECTION
NO SCALE



1
B
TYPICAL TRUSS FRAME SECTION
NO SCALE

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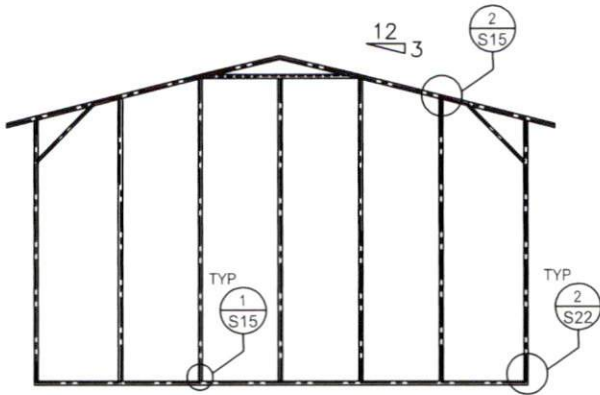
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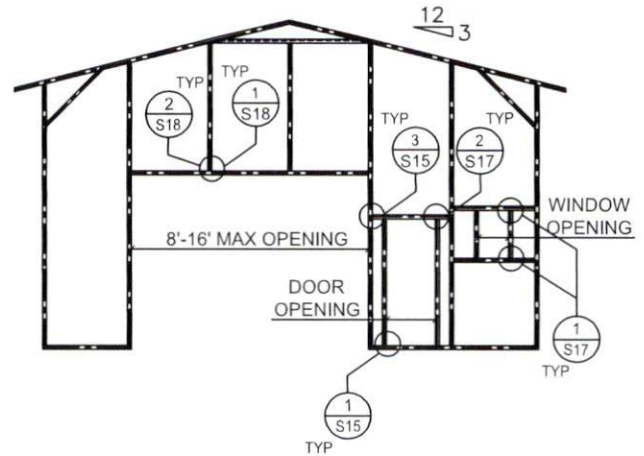
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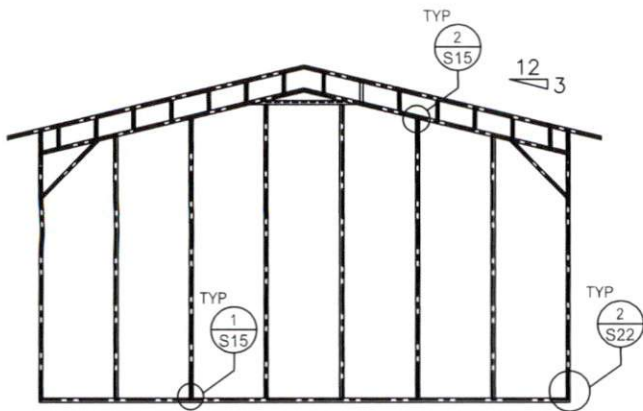




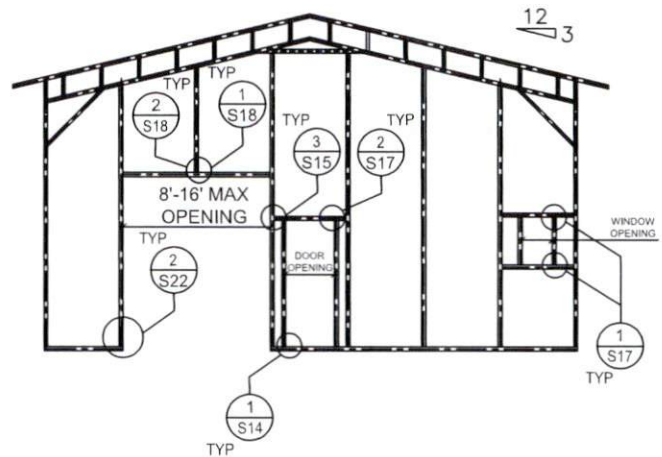
1
A
TYPICAL SINGLE FRAME ELEVATION
NO SCALE



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



2
A
TYPICAL TRUSS FRAME ELEVATION
NO SCALE



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

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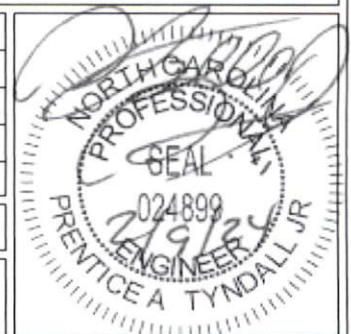
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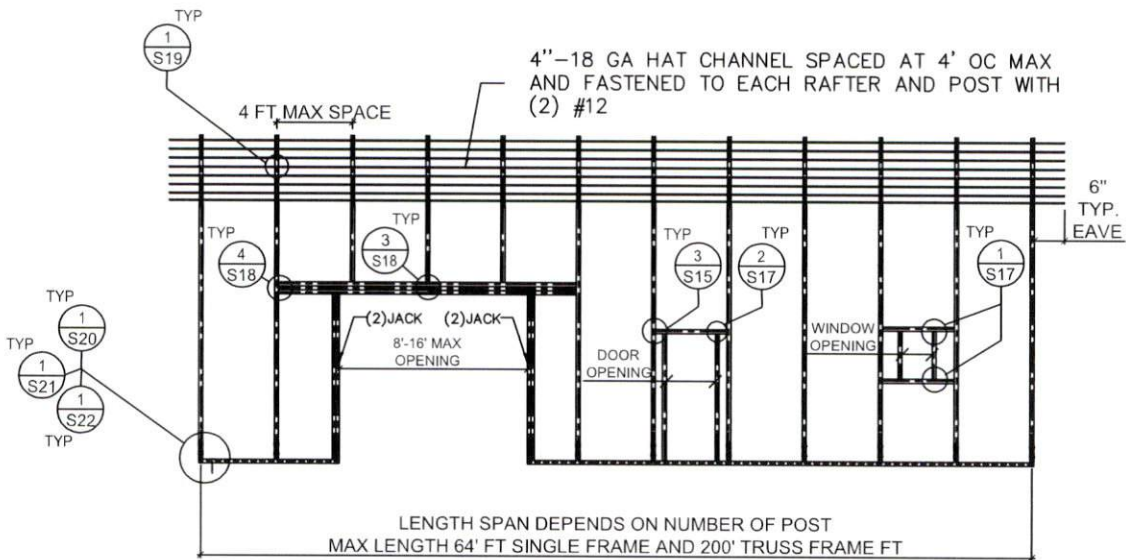
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BUILDING

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

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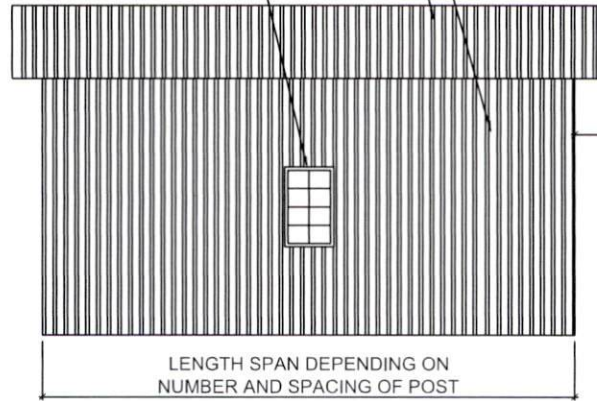
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29 GA GALVANIZED METAL DECK PANELS
FOR WALL AND ROOF FASTENED TO HAT
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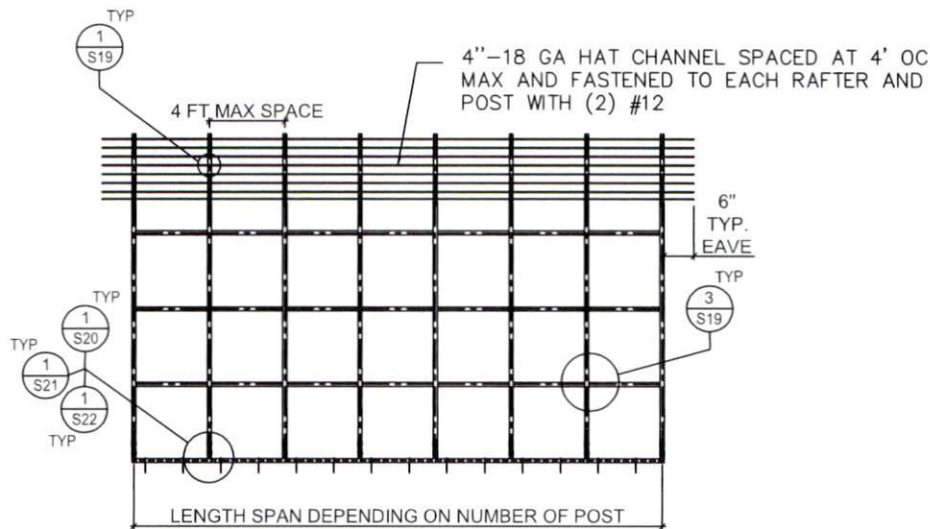
WINDOW (AS APPLICABLE)



6" TYP. EAVE

LENGTH SPAN DEPENDING ON
NUMBER AND SPACING OF POST

1 TYPICAL SIDE ELEVATION FOR VERTICAL PANEL DECK
NO SCALE



4"-18 GA HAT CHANNEL SPACED AT 4' OC
MAX AND FASTENED TO EACH RAFTER AND
POST WITH (2) #12

LENGTH SPAN DEPENDING ON NUMBER OF POST

2 TYPICAL SIDE ELEVATION FOR VERTICAL METAL PANEL DECK
NO SCALE

ELEVATION PLAN

NTS

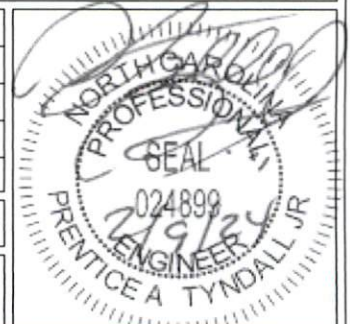


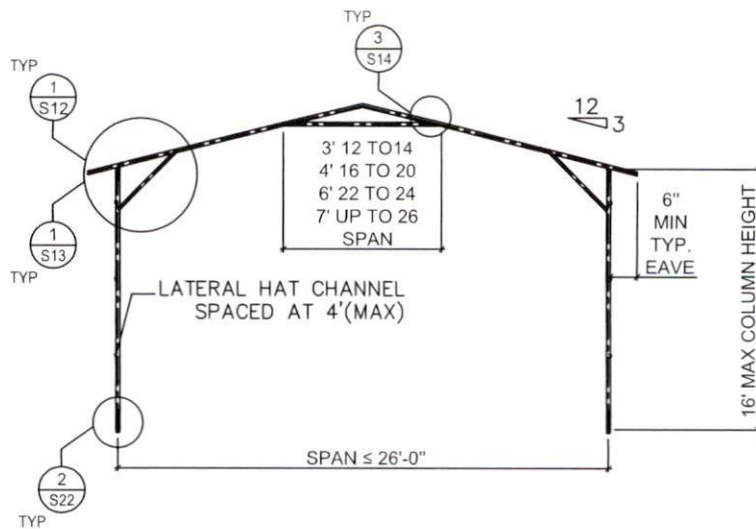
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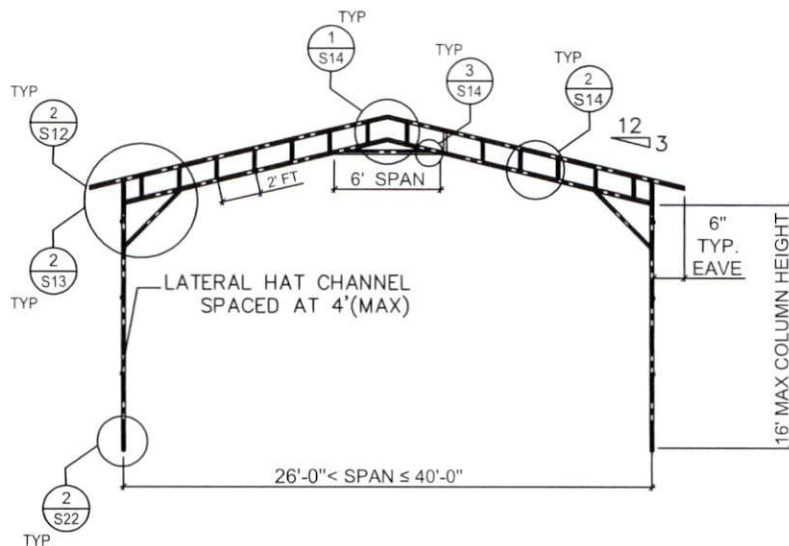
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1
C
TYPICAL SINGLE FRAME SECTION FOR VERTICAL PANEL DECK
NO SCALE



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

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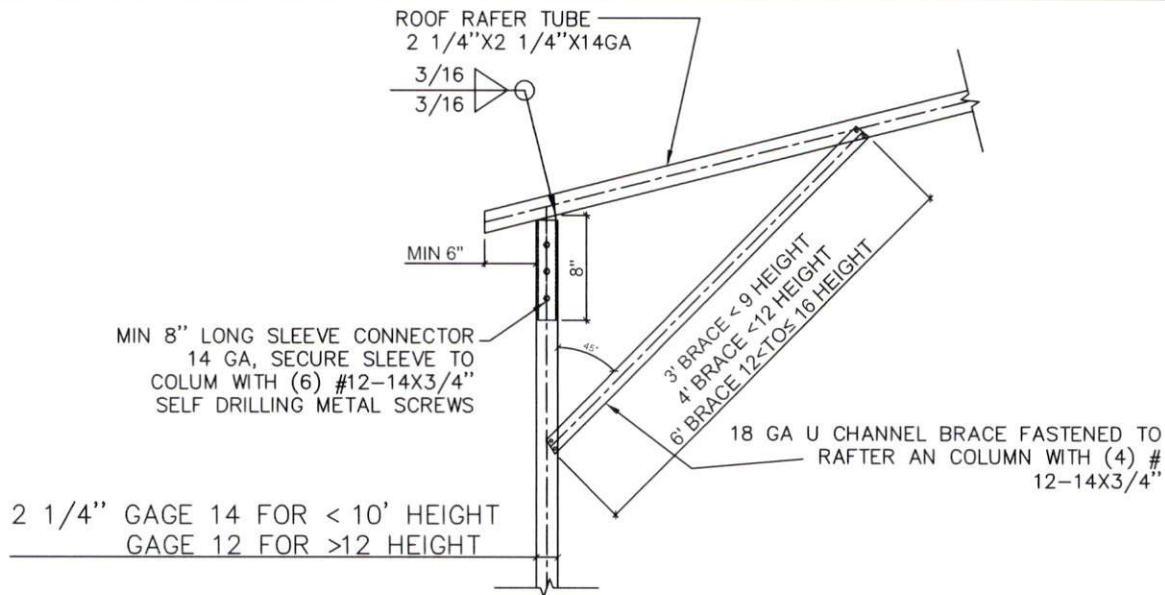
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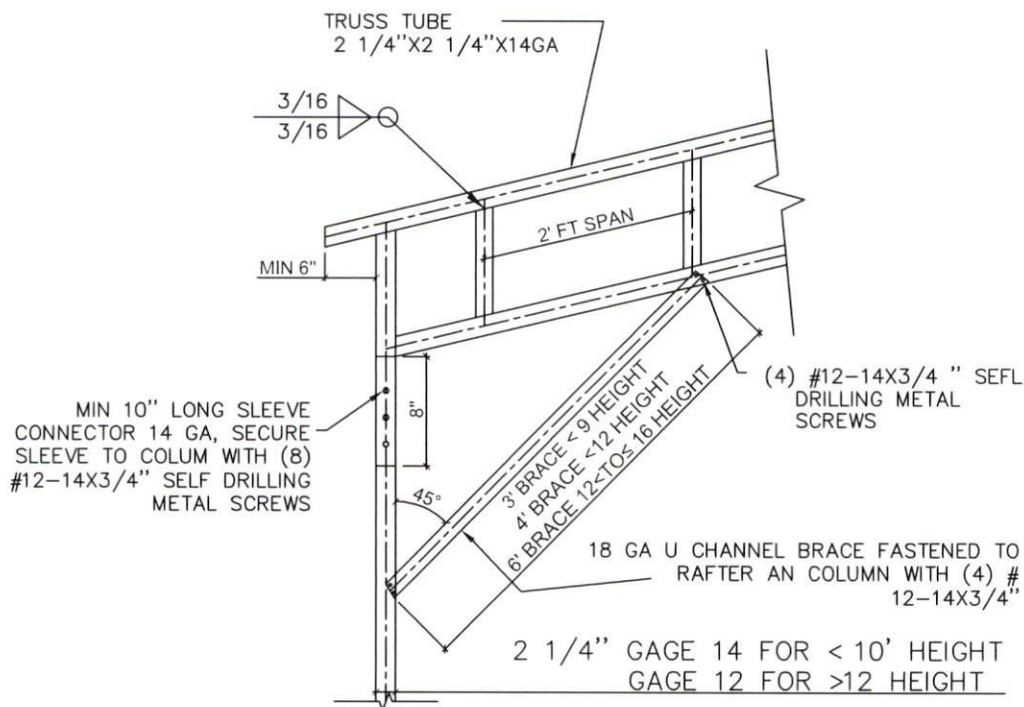
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1 SINGLE FRAME RAFTER-COLUMN CONNECTION DETAIL
NO SCALE FOR WIND SPEEDS UP TO 120 MPH COLUMN HEIGHT ≤ 16 FT



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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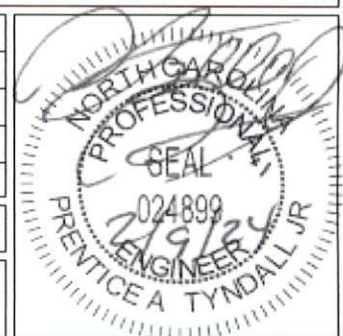
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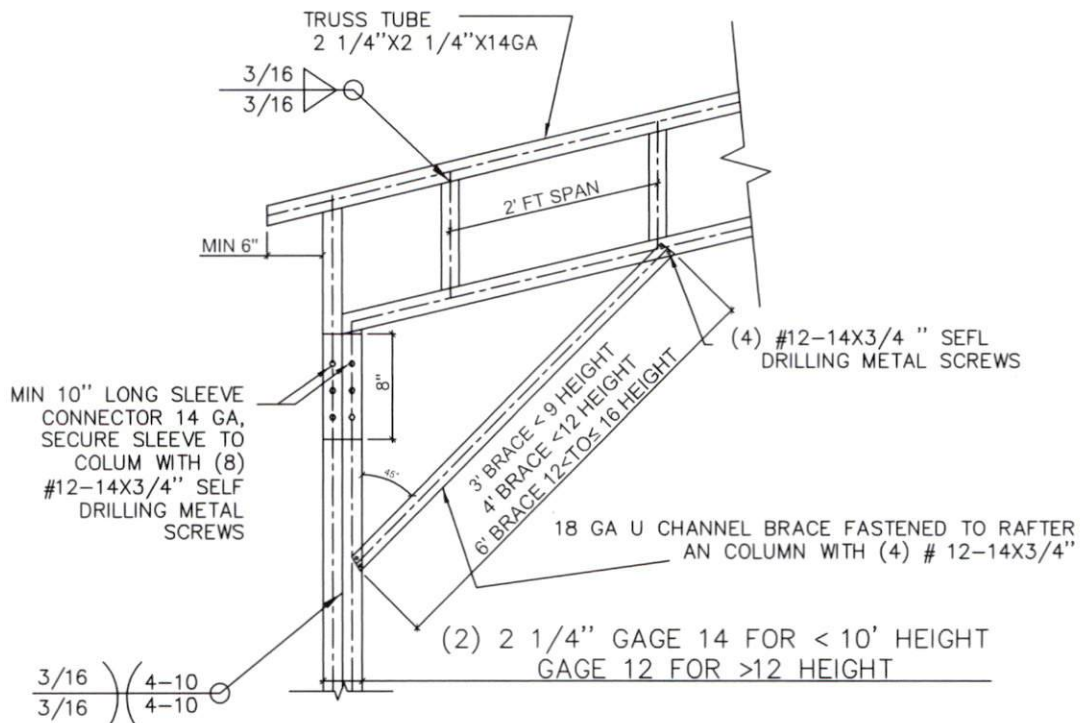
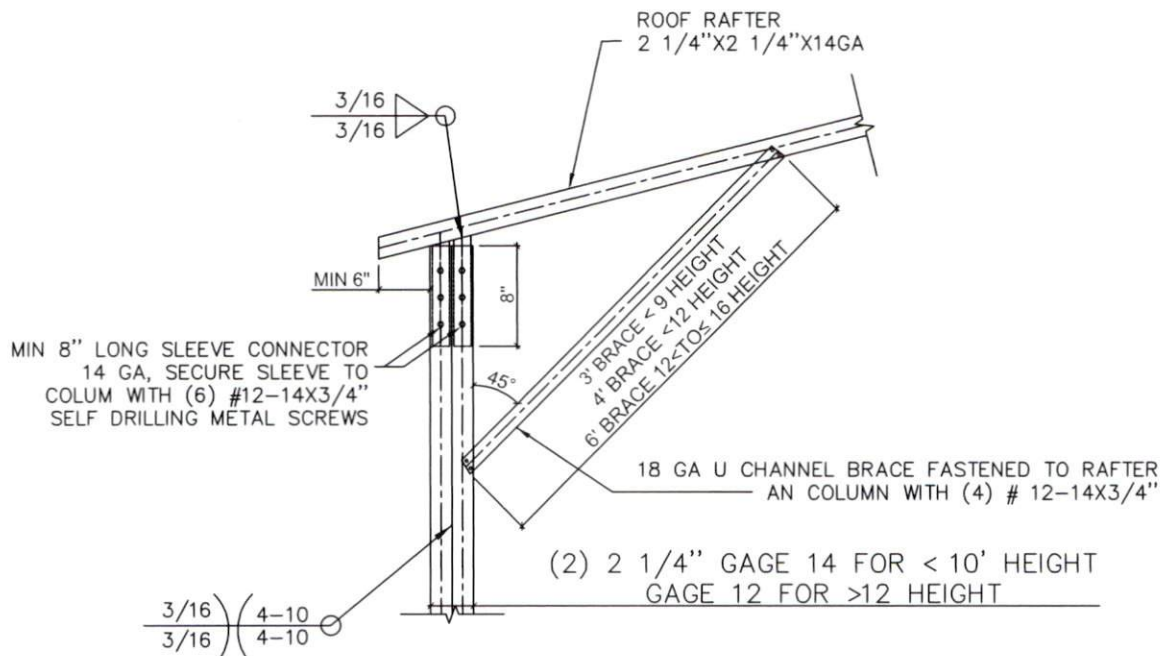
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DETAILS

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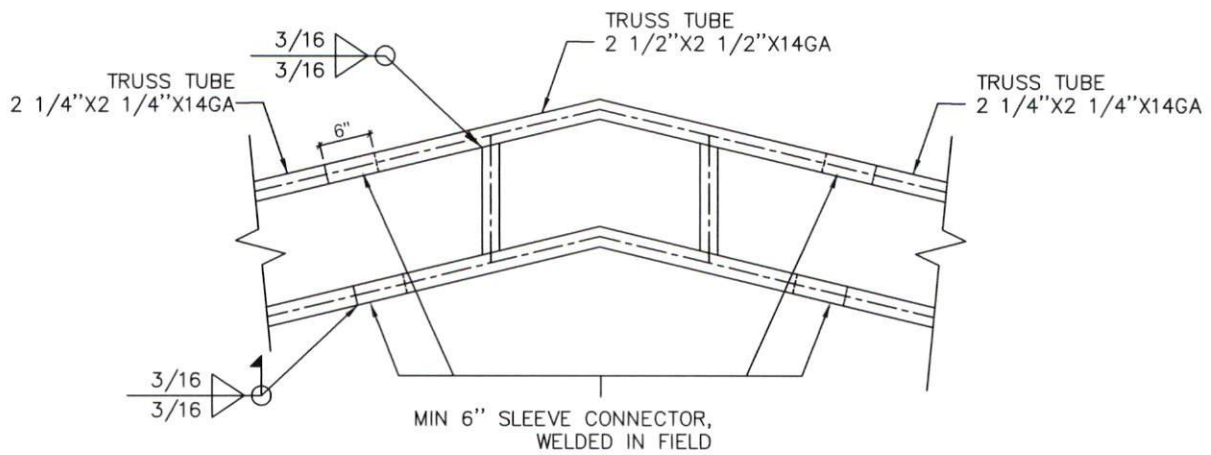
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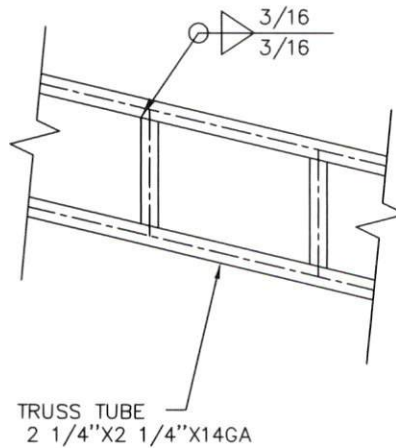
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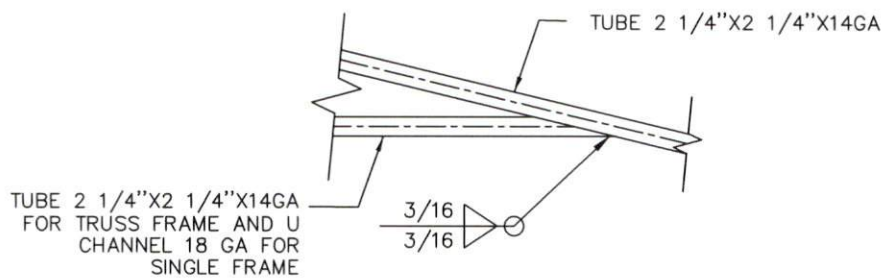




1 TRUSS-TRUSS CONNECTION DETAIL
NO SCALE



2 TRUSS WELD DETAIL
NO SCALE



DETAILS
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3 SINGLE FRAME WELD DETAIL
NO SCALE



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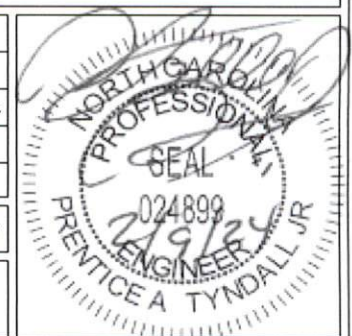
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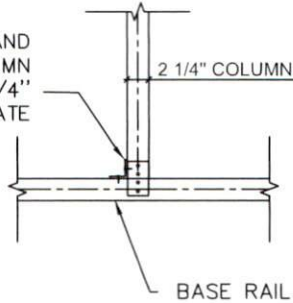
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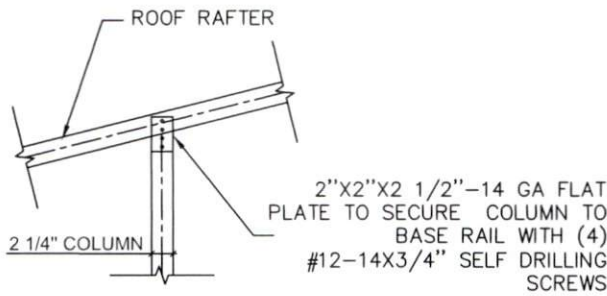
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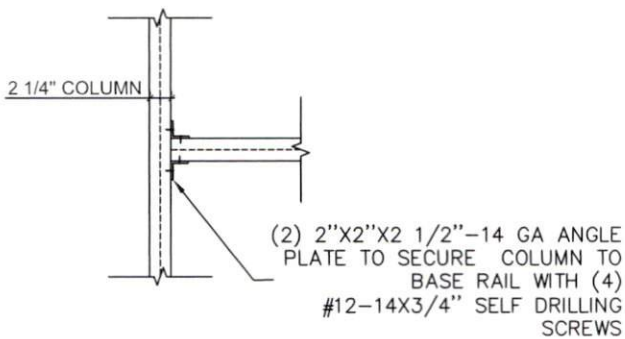
2"x2"x2 1/4"-14 GA (1) FLAT PLATE AND
(1) ANGLE PLATE TO SECURE COLUMN
TO BASE RAIL WITH (4) #12-14X3/4"
SELF DRILLING SCREWS ON EACH PLATE



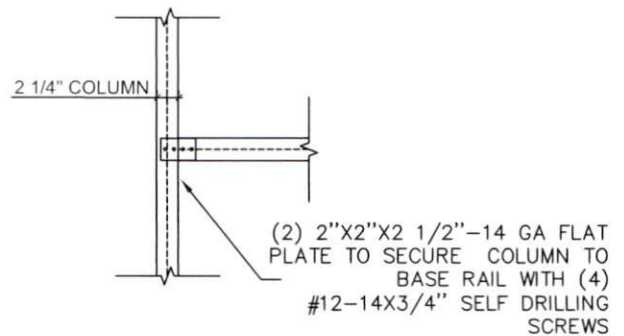
1 FLAT PLATE CONNECTION COLUMN TO BASE RAIL
NO SCALE



2 FLAT PLATE RAFTER-COLUMN CONNECTION DETAIL
NO SCALE



3 A ANGLE PLATE HEADER-COLUMN CONNECTION DETAIL
NO SCALE



3 B FLAT PLATE HEADER-COLUMN CONNECTION DETAIL
NO SCALE

DETAILS

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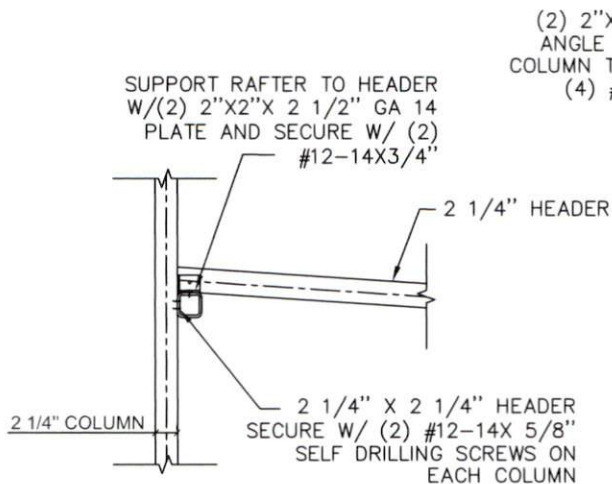
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NO.	DATE	REVISIONS AND RECORD OF ISSUE	CHK.
NAME:	Laura Matthews		
ADDRESS:	25 Rick Circle, Angier NC		
DRAWN: MR	CHECKED: PTII	DATE: 06/05/2023	PROJECT #: 2201-010434F

PROJECT: ENCLOSED
BUILDING

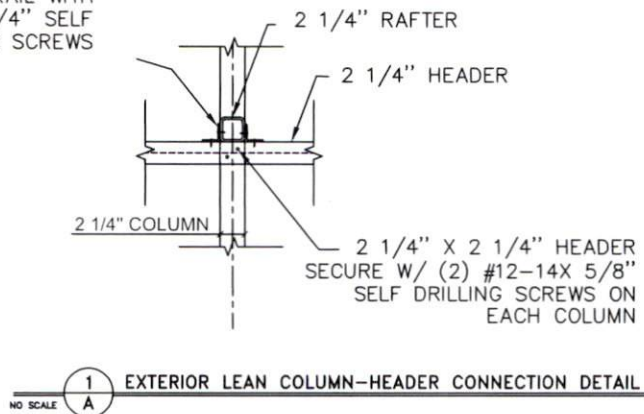
DRAWING NUMBER:
15 of 22

REV:
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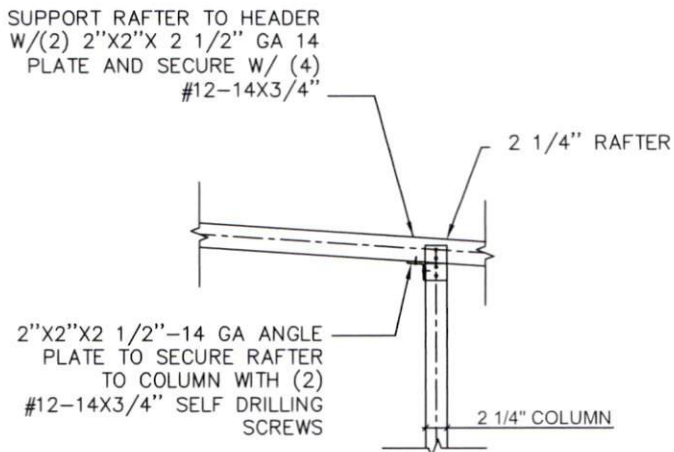




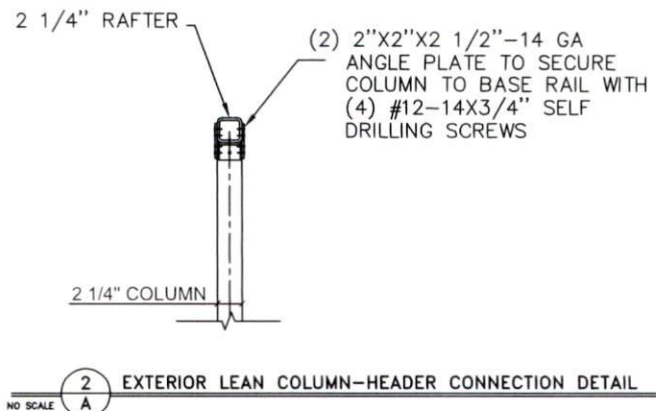
1 EXTERIOR LEAN COLUMN-HEADER CONNECTION DETAIL
NO SCALE



1 EXTERIOR LEAN COLUMN-HEADER CONNECTION DETAIL
NO SCALE



2 EXTERIOR LEAN COLUMN-HEADER CONNECTION DETAIL
NO SCALE



2 EXTERIOR LEAN COLUMN-HEADER CONNECTION DETAIL
NO SCALE



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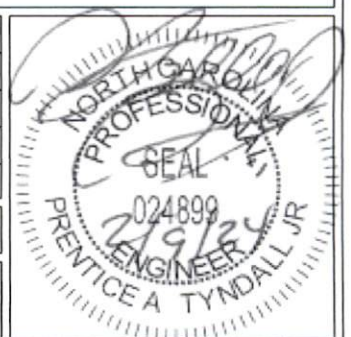
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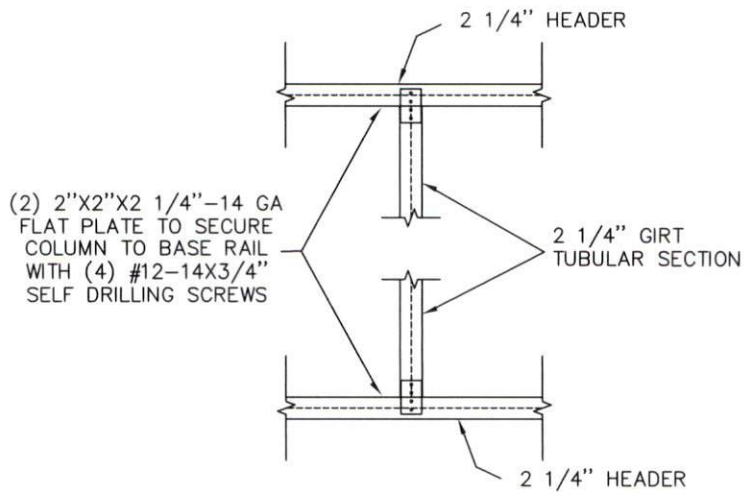
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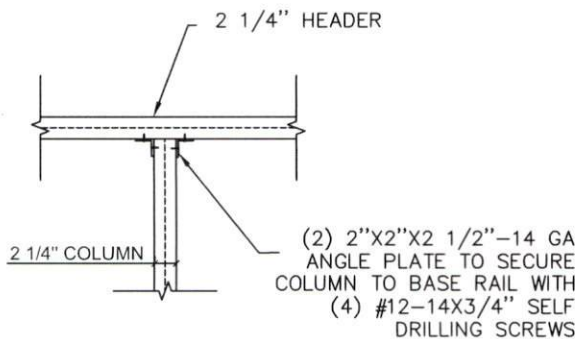
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16 of 22

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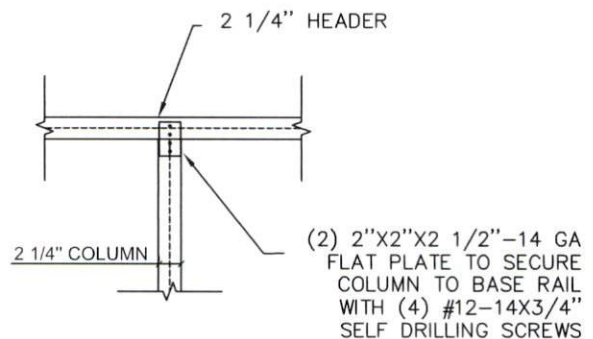




1 FLAT PLATE HEADER CONNECTION FOR WINDOW DETAIL
NO SCALE



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



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

DETAILS

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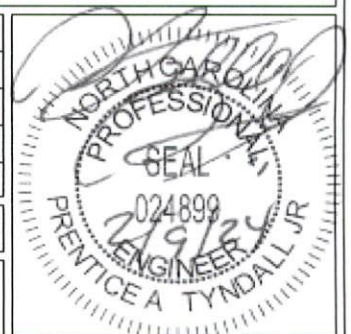
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2			
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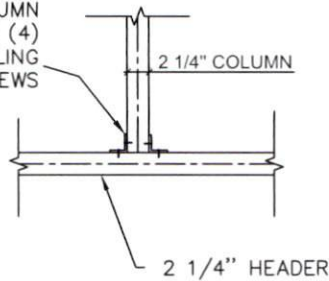
PROJECT: ENCLOSED
BUILDING

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17 of 22

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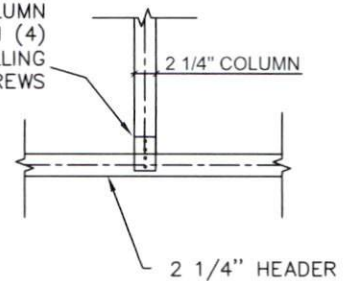


2"x2"x2 1/2"-14 GA ANGLE
PLATE TO SECURE COLUMN
TO BASE RAIL WITH (4)
#12-14X3/4" SELF DRILLING
SCREWS

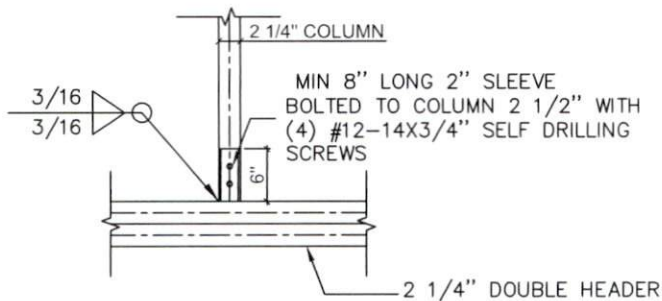


1
A ANGLE PLATE CONNECTION COLUMN-HEADER
NO SCALE FOR 9'X8' OR 10X8 ROLLER DOOR SPAN UP TO 9 FT

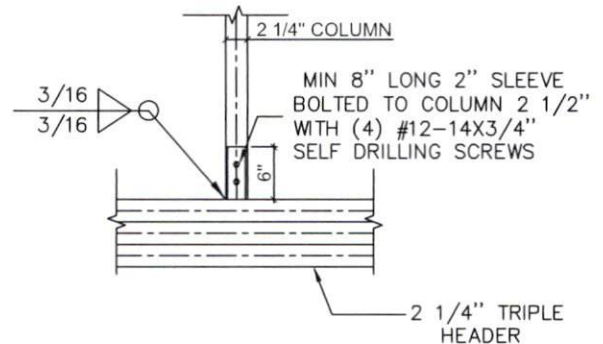
2"x2"x2 1/2"-14 GA FLAT
PLATE TO SECURE COLUMN
TO BASE RAIL WITH (4)
#12-14X3/4" SELF DRILLING
SCREWS



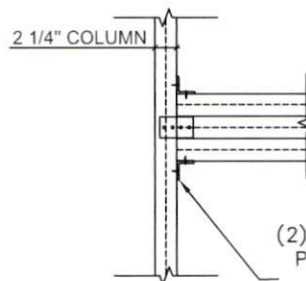
1
B FLAT PLATE CONNECTION COLUMN-HEADER
NO SCALE FOR 9'X8' OR 10X8 ROLLER DOOR SPAN UP TO 9 FT



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



(2) 2"x2"x2 1/2"-14 GA ANGLE
PLATE AND (1) FLAT PLATE TO
SECURE COLUMN TO BASE
RAIL WITH (4) #12-14X3/4"
SELF DRILLING SCREWS

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

DETAILS

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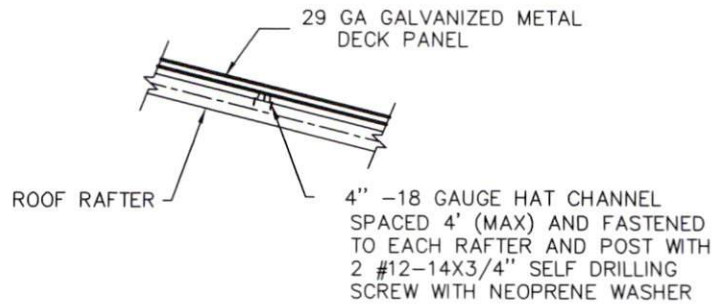
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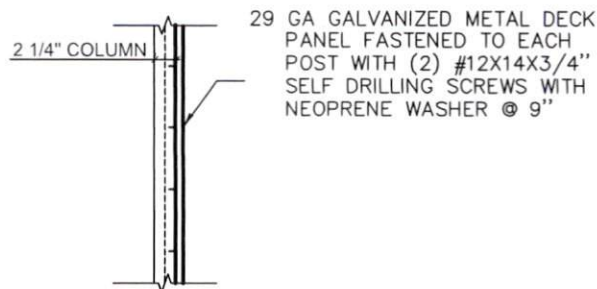
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18 of 22

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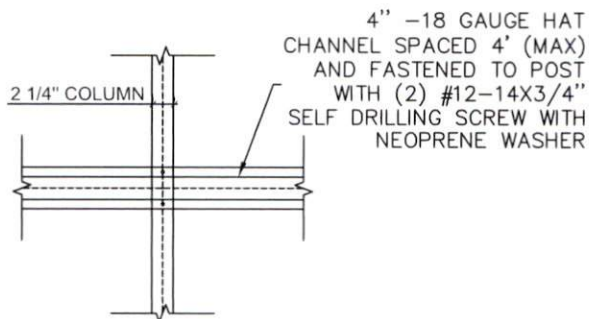




1 SINGLE FRAME RAFTER-COLUMN CONNECTION DETAIL
NO SCALE



2 DECKING-COLUMN CONNECTION
NO SCALE



3 HAT-COLUMN CONNECTION DETAIL FOR VERTICAL DECKING
NO SCALE



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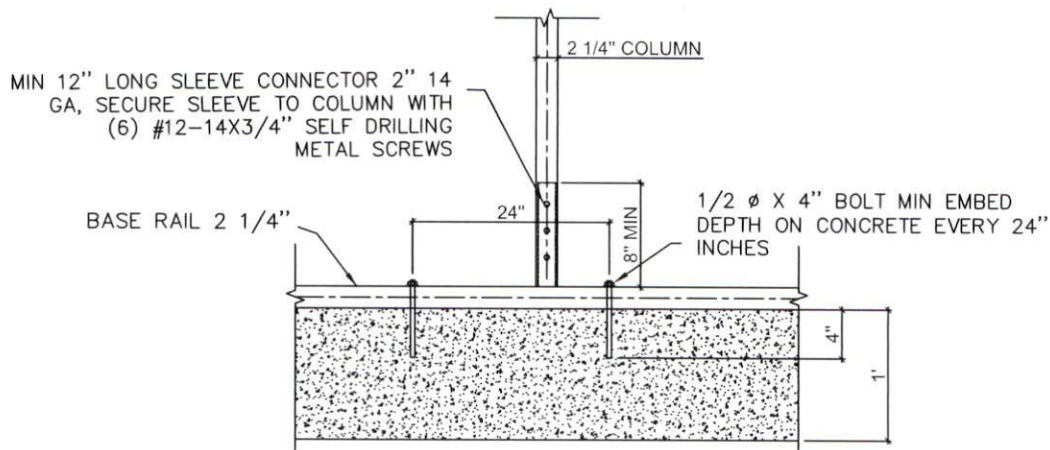
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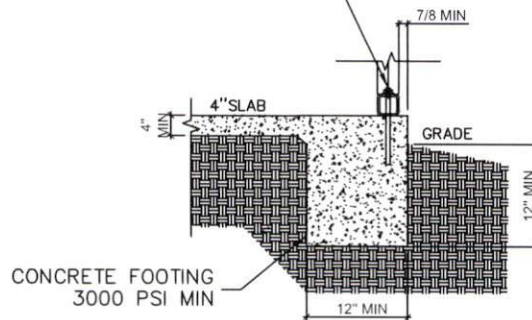
REV:
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1 BASE RAIL ANCHOR CONNECTION DETAIL FOR WINDS UP 120 MPH
NO SCALE

1/2" Ø 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

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20 of 22

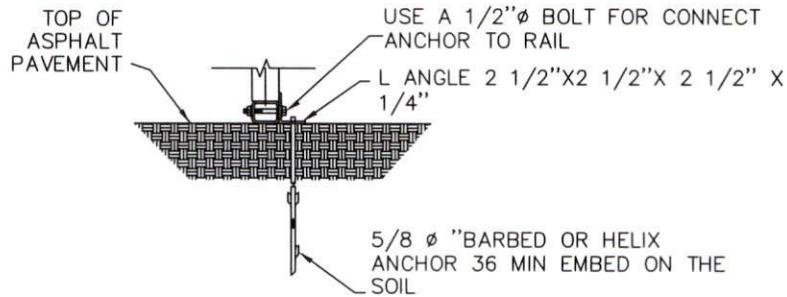
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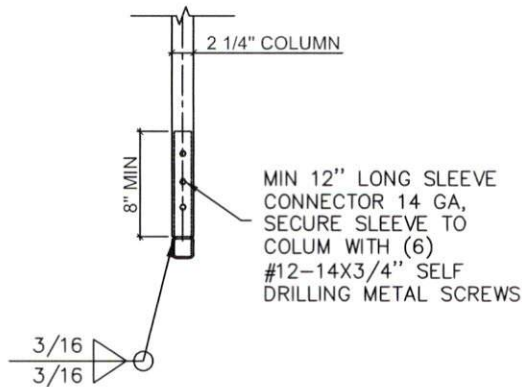


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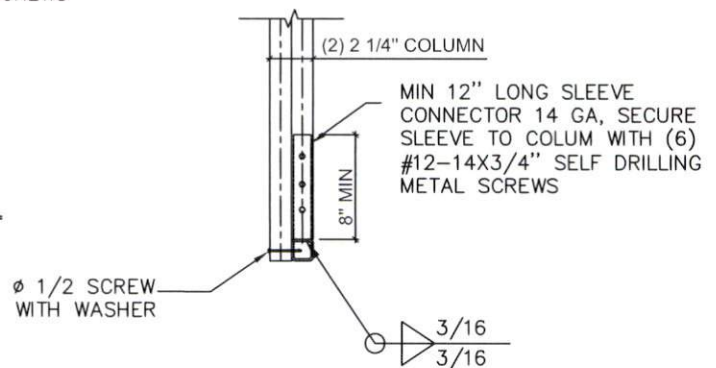




1 BASE RAIL ANCHORAGE WITH BARBED OR HELIX ANCHOR
NO SCALE



2 BASE RAIL-COLUMN CONNECTION DETAIL
NO SCALE



3 BASE RAIL-COLUMN CONNECTION DETAIL
NO SCALE



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BUILDING

DRAWING NUMBER:
22 of 22

REV:
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