



STRUCTURAL PLANS

Structure Size: 20'x21'x8'

Customer: James Allen

Address: 361 Mabry Rd Angier, NC 27501

Prepared For:

SUPERIOR METAL STRUCTURES & CONCRETE, LLC

Prepared By:



TYNDALL
ENGINEERING & DESIGN, P.A.

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

NTS

GENERAL NOTES

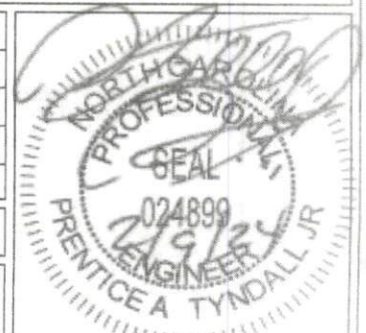
- 1) ALL STRUCTURAL STEEL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH NOTES AND DETAILS ON THESE DRAWINGS; DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL CONFORM IN ACCORDANCE WITH THE VIRGINIA BUILDING CODE 2021, INTERNATIONAL BUILDING CODE (IBC) 2021, AND NORTH AMERICAN SPECIFICATION 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, TYPICAL UNLESS NOTED OTHERWISE.
- 11) AT 150 MPH THE STRUCTURE SHALL BE BUILD WITH DOUBLE COLUMN SUPPORT, TYPICAL UNLESS NOTED OTHERWISE.
- 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" # WEDGE ANCHORS ASTM A325 OR SIMILAR HIGH STRENGTH BOLTS, UNLESS INDICATED OTHERWISE ON THE DRAWINGS



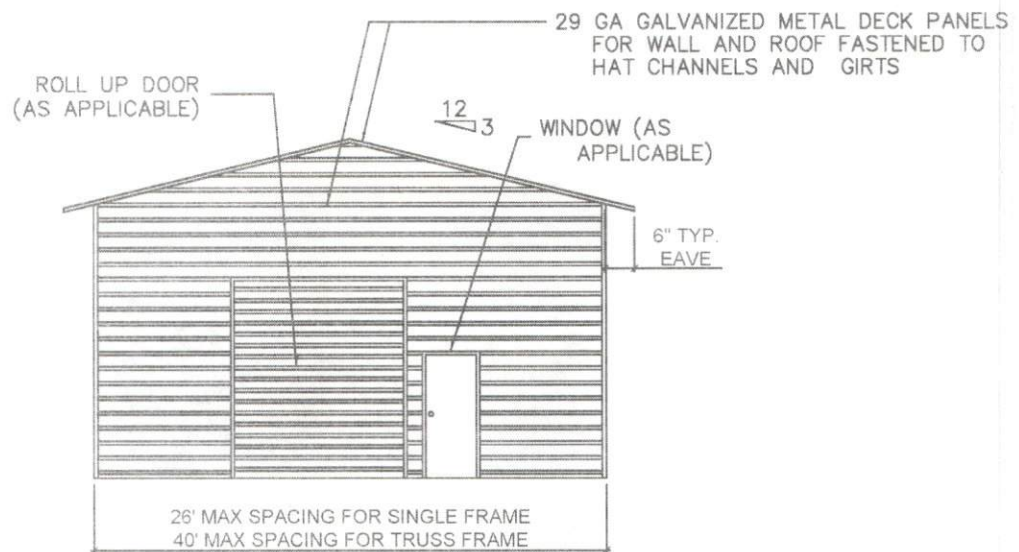
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NO.	DATE	REVISIONS AND RECORD OF ISSUE	CHK.
NAME:		James Allen	
ADDRESS:		361 Mabry Rd Angier, NC 27501	
DRAWN:	CHECKED:	DATE:	PROJECT #:
MR	PTH	07/31/2023	2201-010434D
PROJECT: ENCLOSED BUILDING		DRAWING NUMBER:	REV:
		1 of 23	A

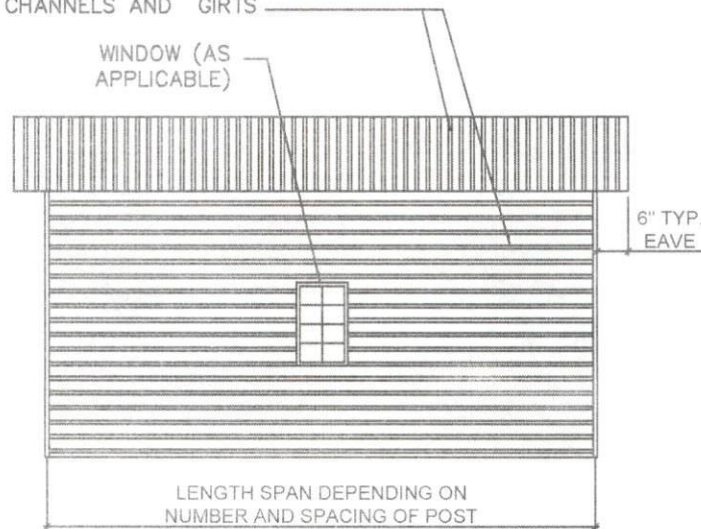


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LLC



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

NTS

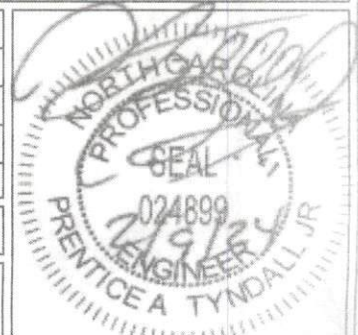


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PROJECT: ENCLOSED BUILDING		DRAWING NUMBER: 2 of 23	REV. A



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

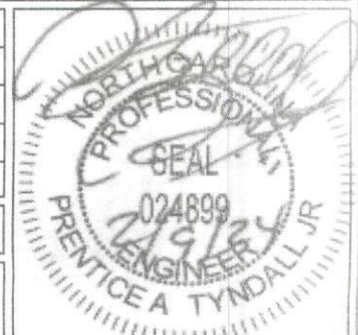


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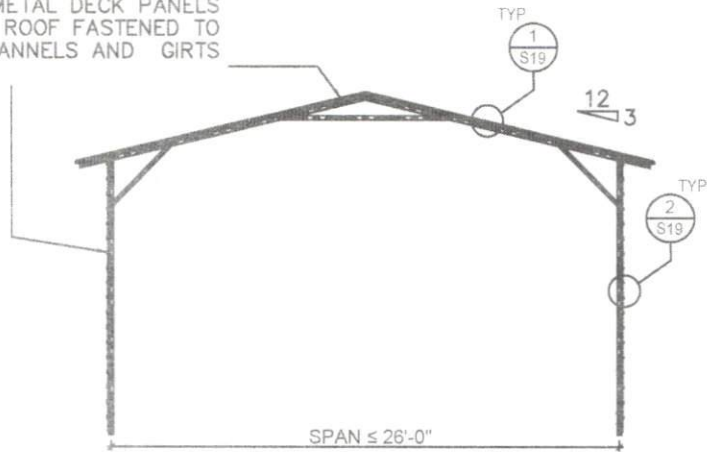
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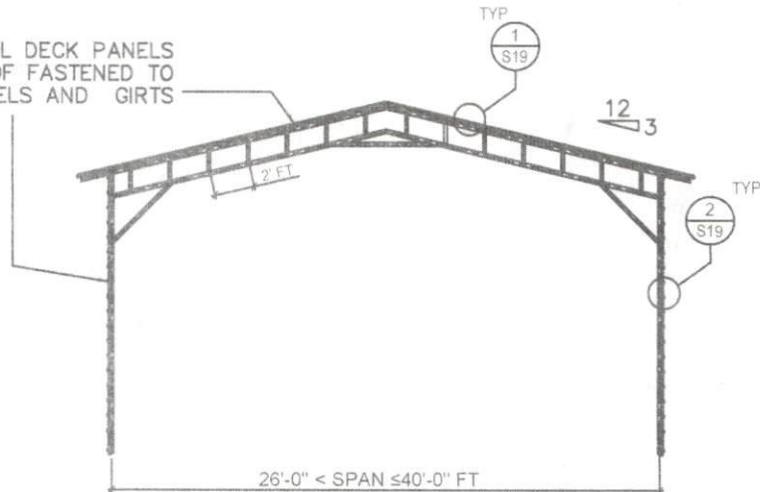


29 GA GALVANIZED METAL DECK PANELS
FOR WALL AND ROOF FASTENED TO
HAT CHANNELS AND GIRTS



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

ELEVATION PLAN

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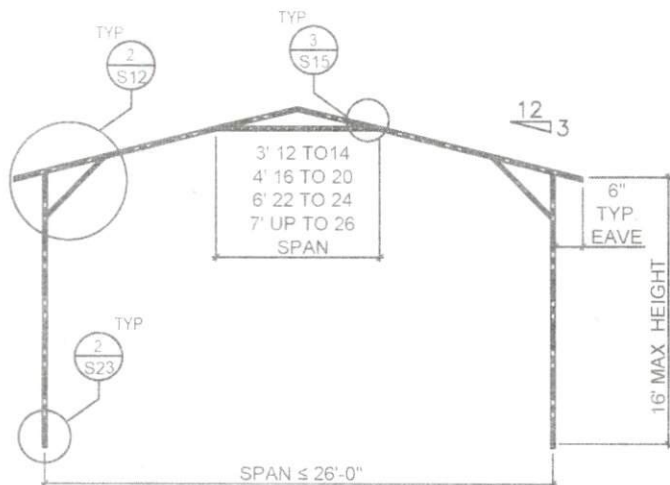
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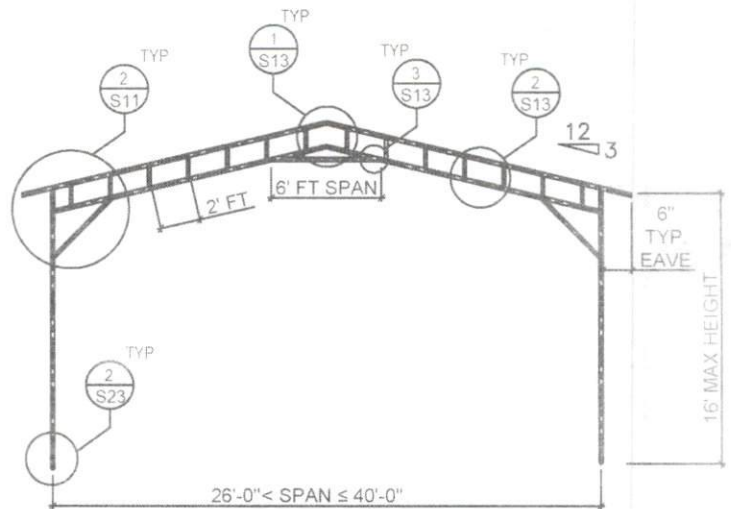
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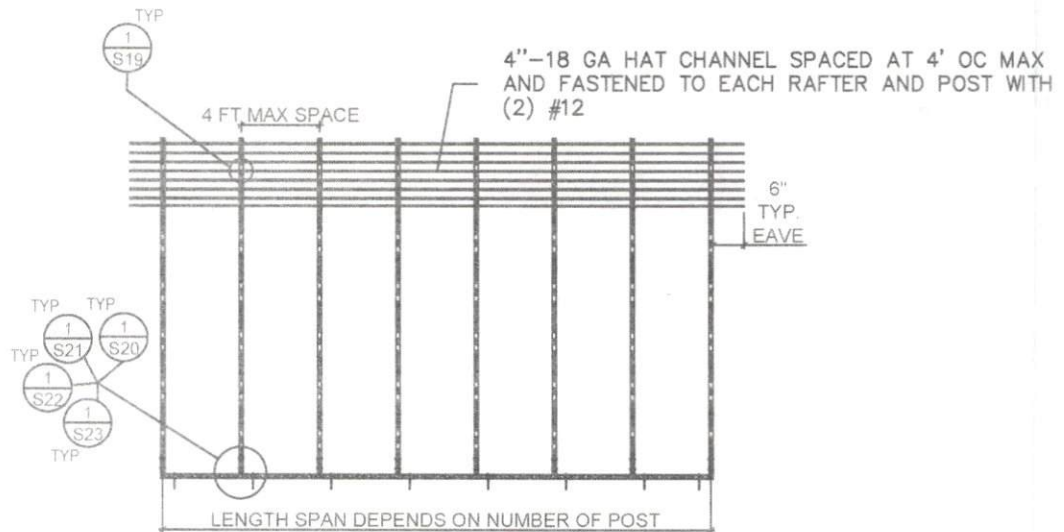




1 TYPICAL SINGLE FRAME SECTION
NO SCALE



1 TYPICAL TRUSS FRAME SECTION
NO SCALE



2 TYPICAL SIDE SINGLE FRAME SECTION
NO SCALE

ELEVATION PLAN

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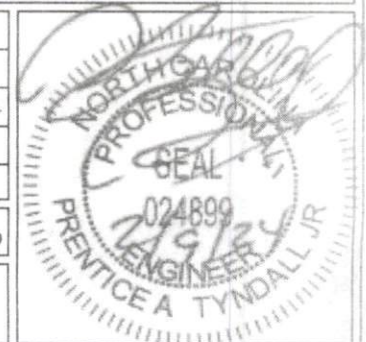
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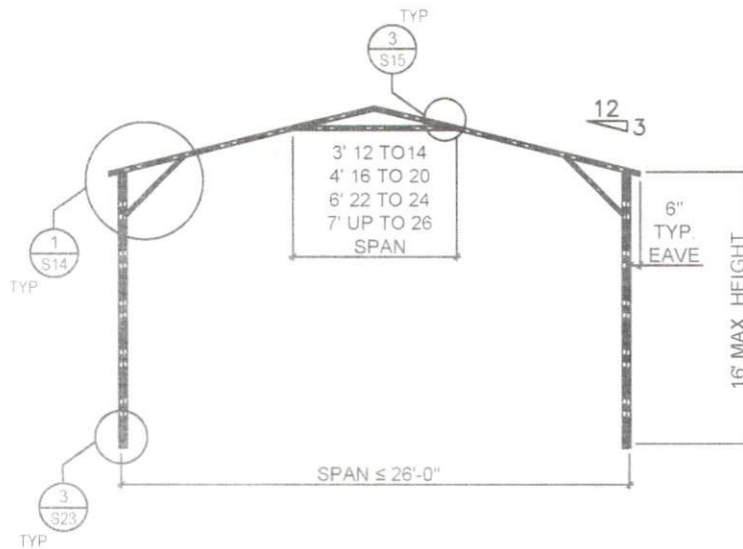
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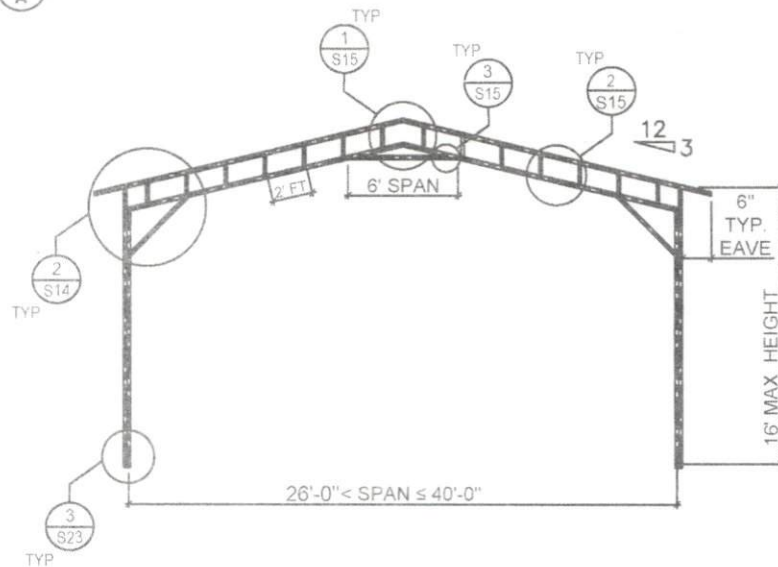
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1 A TYPICAL SINGLE FRAME DOUBLE SECTION FOR WIND SPEED 105 < T ≤ 150 MPH
NO SCALE



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

ELEVATION PLAN

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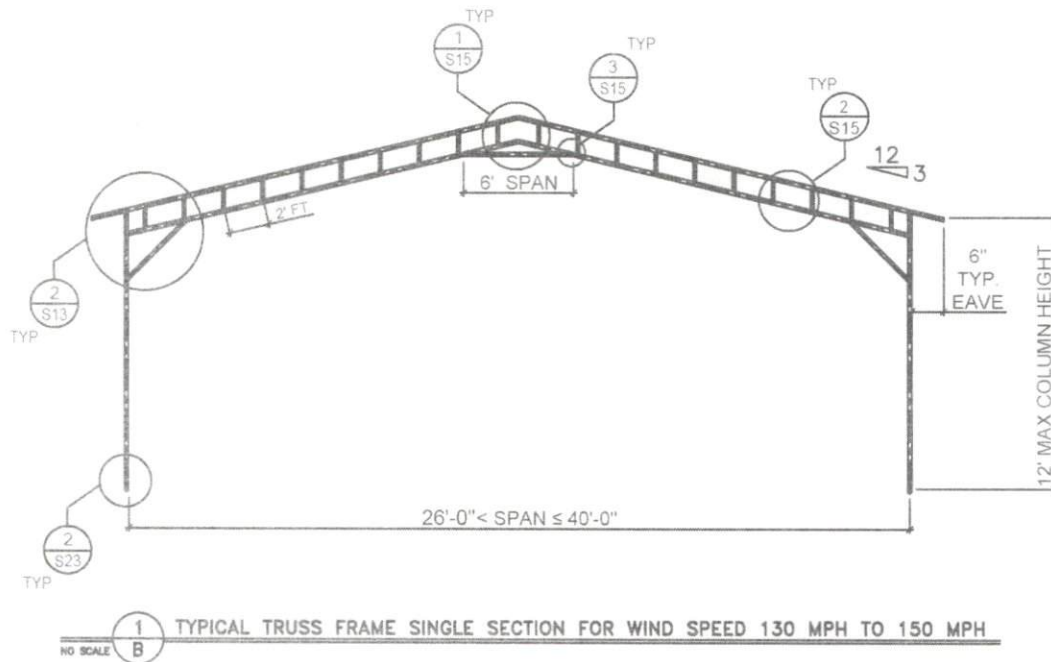
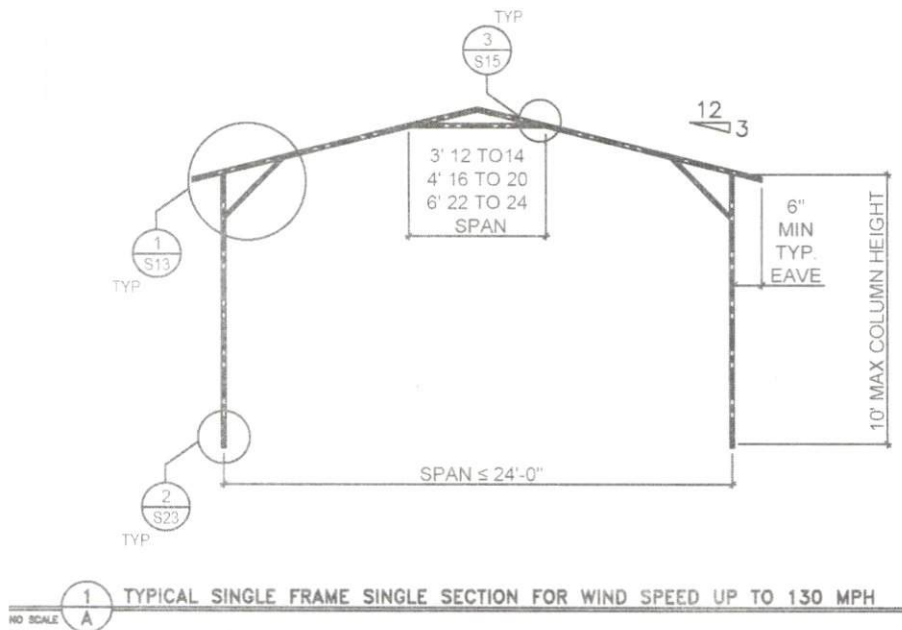
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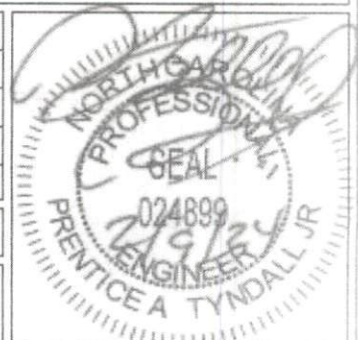
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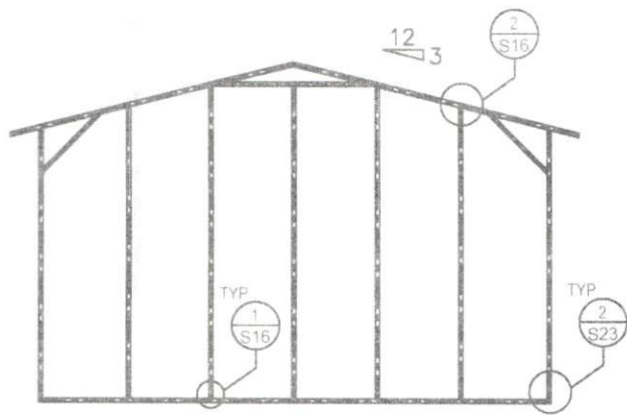
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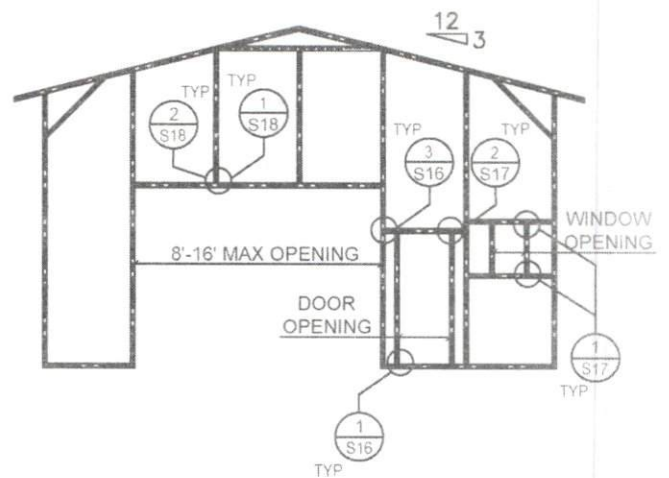
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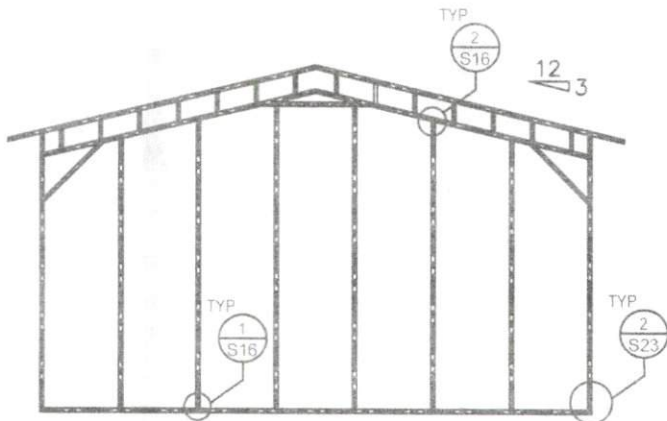




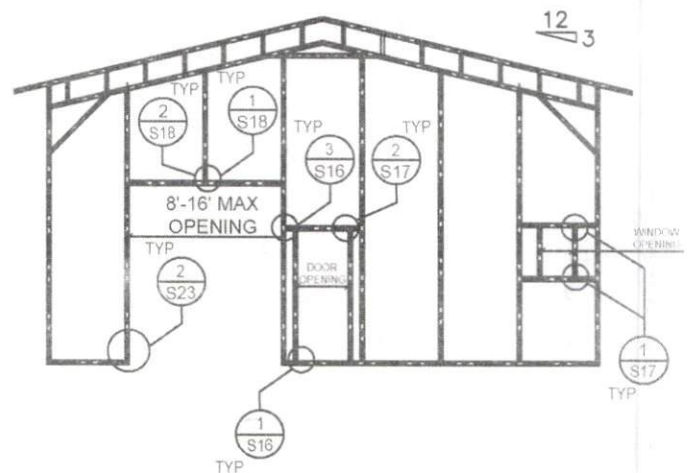
1 TYPICAL SINGLE FRAME ELEVATION
NO SCALE A



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

ELEVATION PLAN

NTS

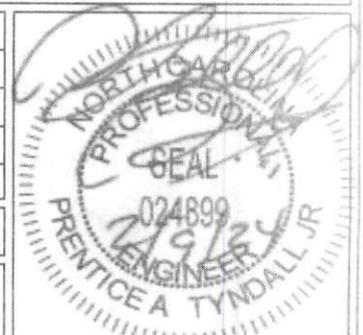


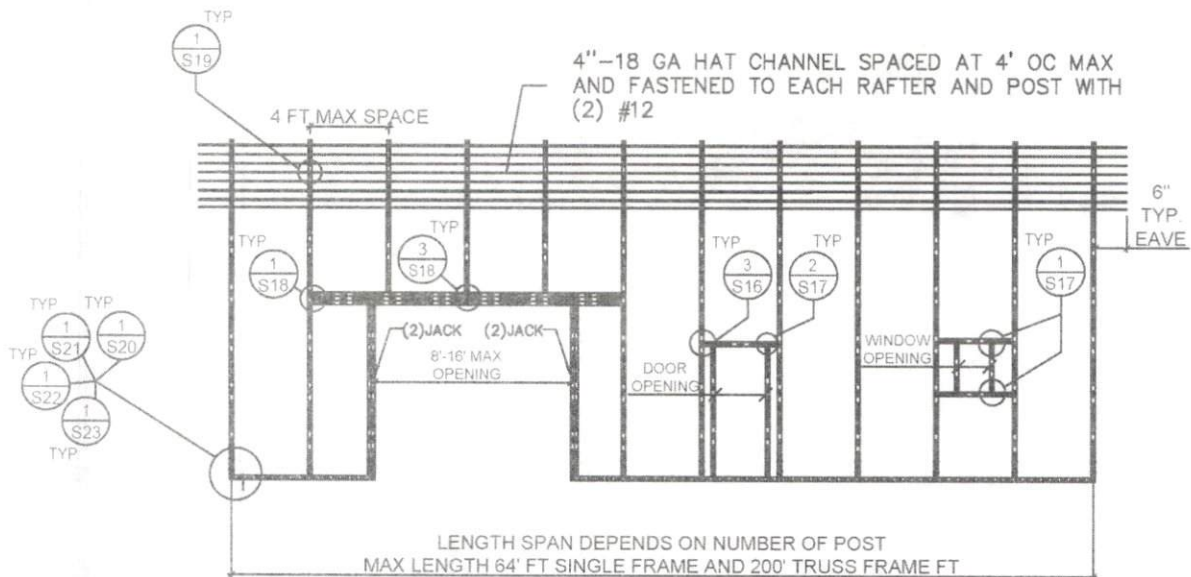
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1 FRAME SIDE ELEVATION W/ GARAGE DOOR, DOOR AND WINDOW FRAME
NO SCALE

ELEVATION PLAN

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PROJECT: ENCLOSED
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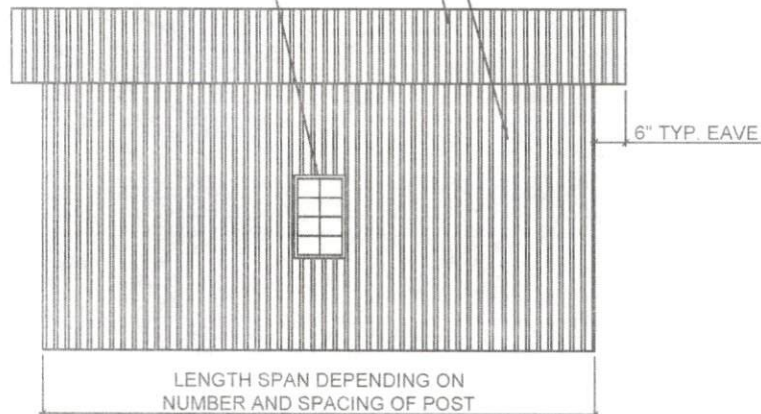
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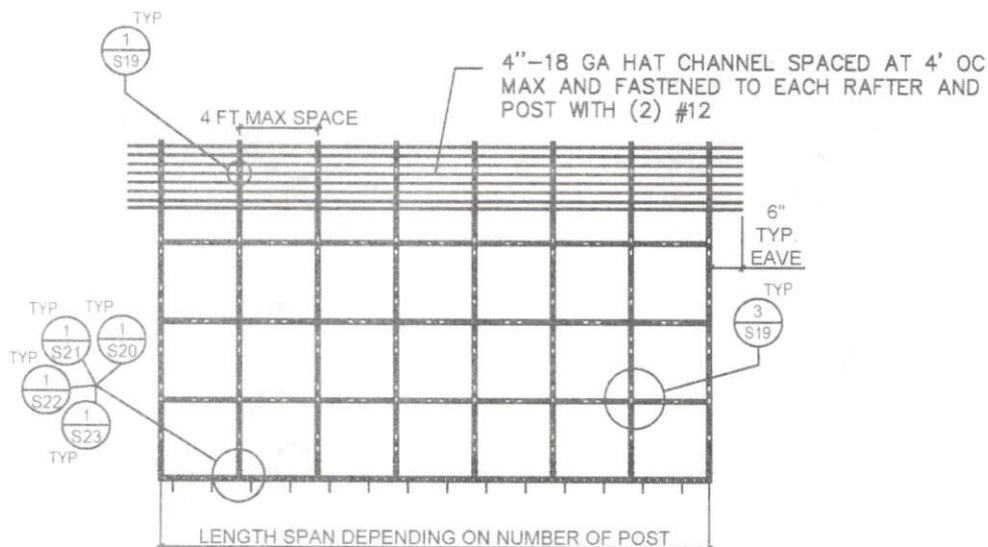


29 GA GALVANIZED METAL DECK PANELS
FOR WALL AND ROOF FASTENED TO HAT
CHANNELS AND GIRTS

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

NTS

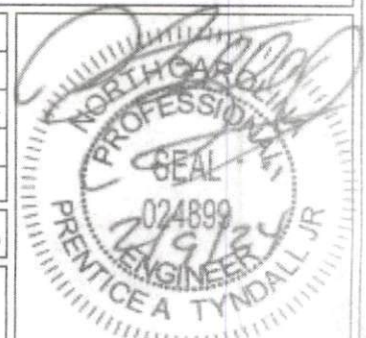


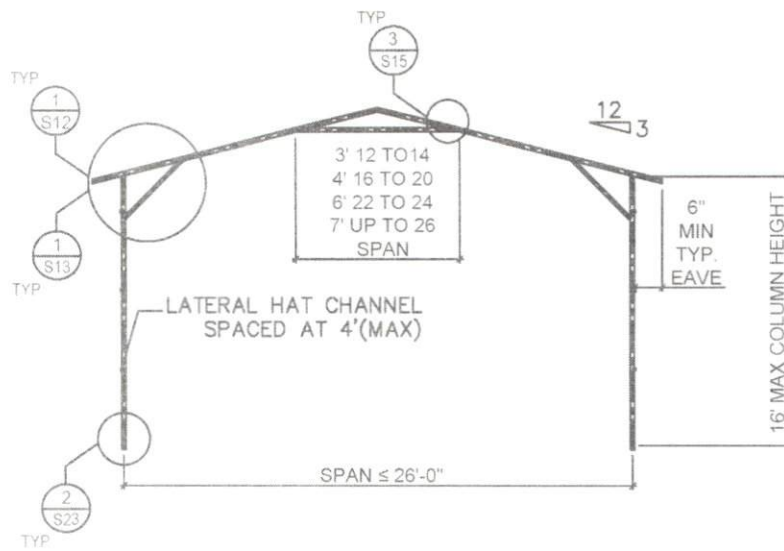
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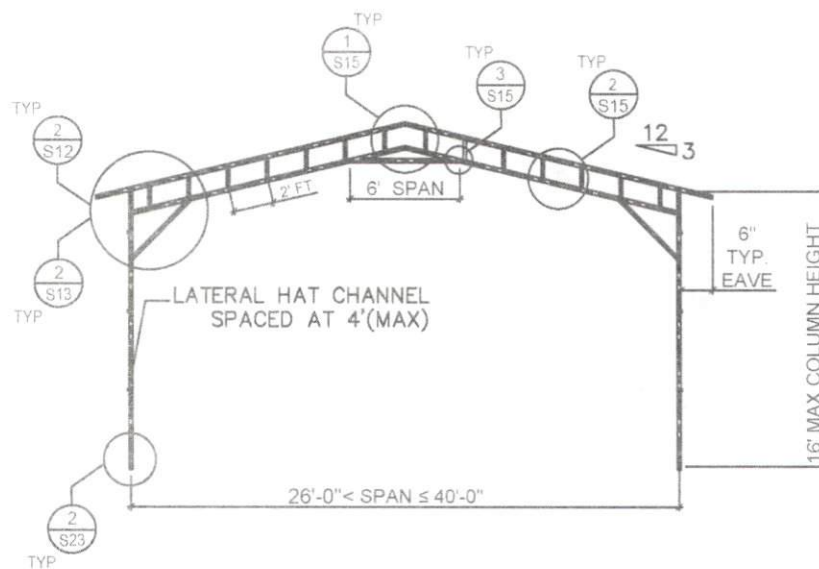
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1
C
TYPICAL SINGLE FRAME SECTION FOR VERTICAL PANEL DECK
NO SCALE



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

ELEVATION PLAN

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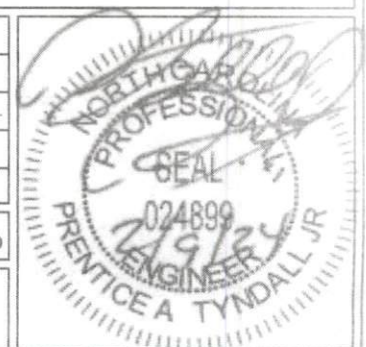


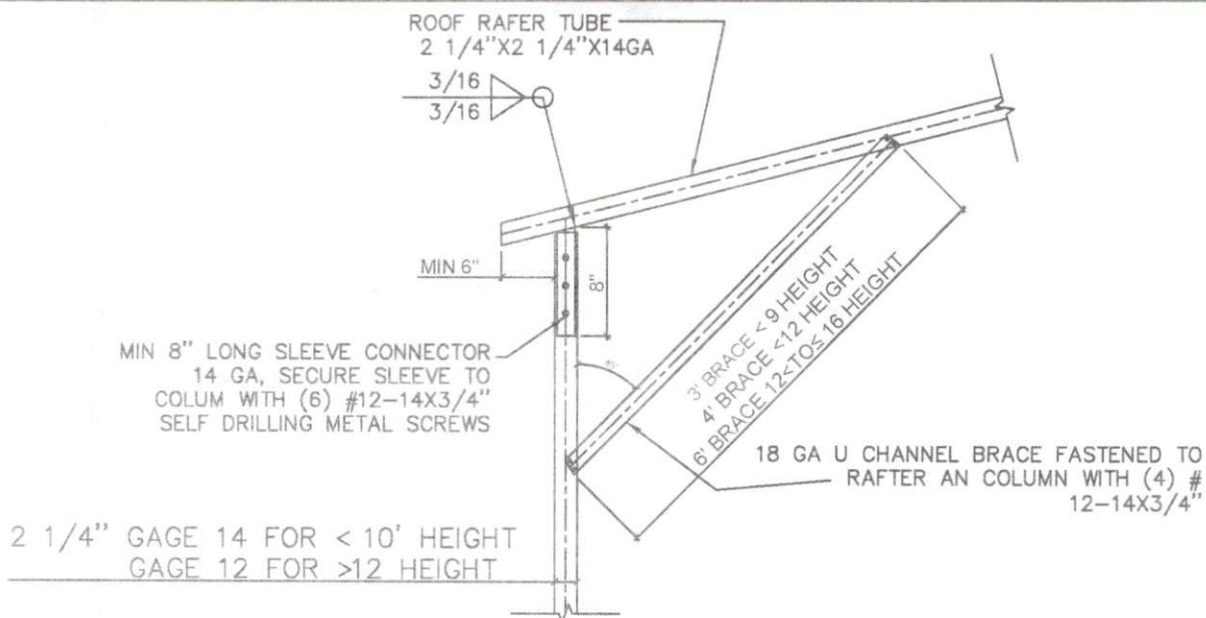
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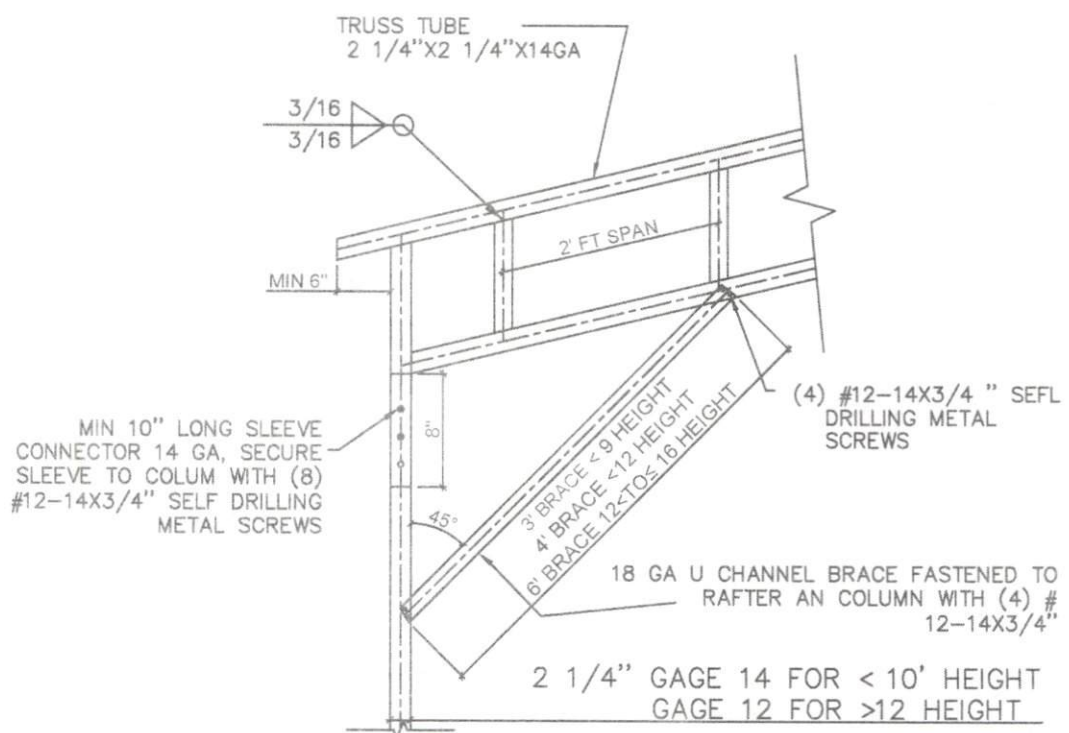
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1 SINGLE FRAME RAFTER-COLUMN CONNECTION DETAIL
 NO SCALE FOR WIND SPEEDS UP TO 120 MPH COLUMN HEIGHT ≤16 FT



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

DETAILS
 NTS



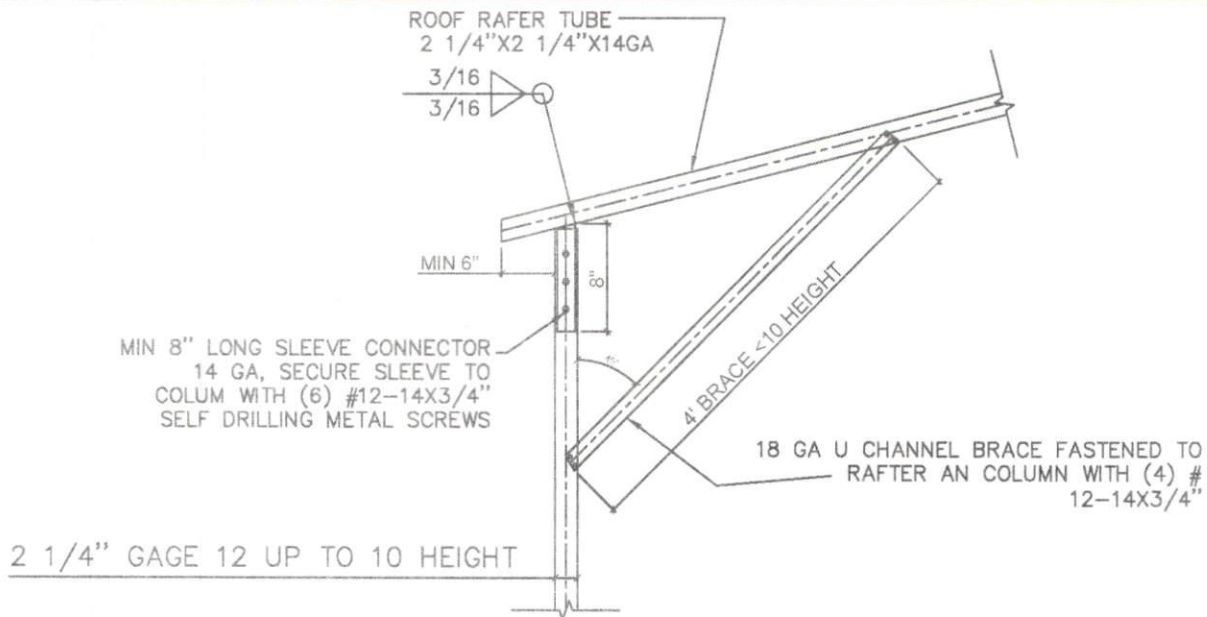
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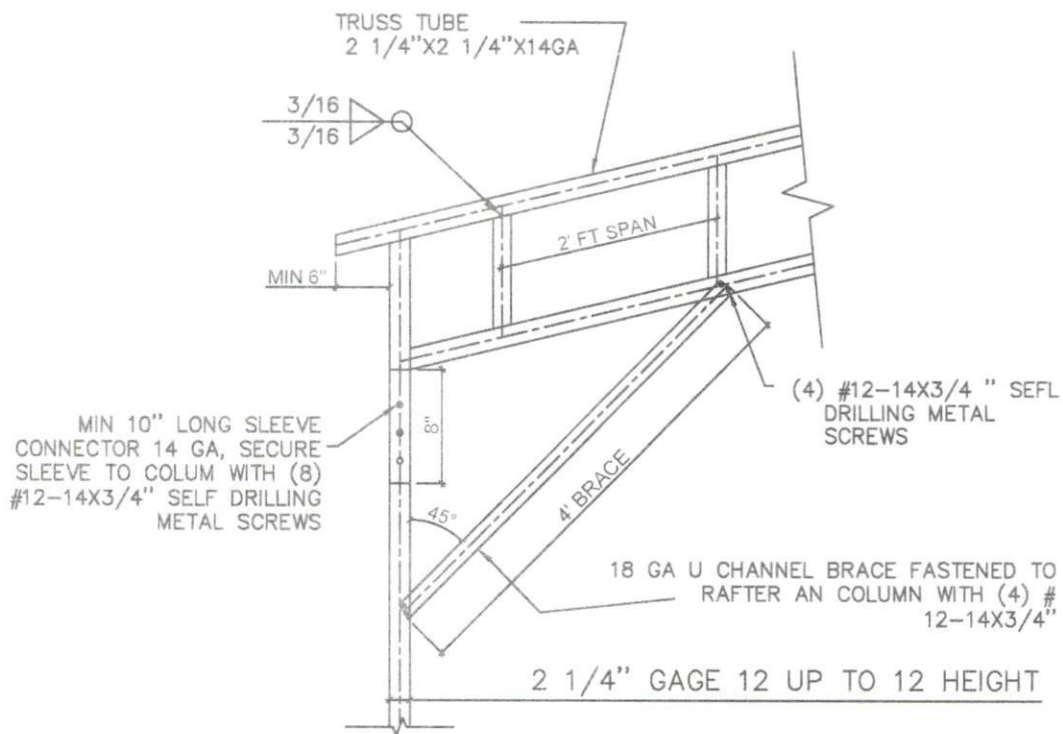
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1 SINGLE FRAME RAFTER-COLUMN CONNECTION DETAIL
NO SCALE FOR WIND SPEEDS UP TO 130 MPH COLUMN HEIGHT ≤10 FT



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

DETAILS
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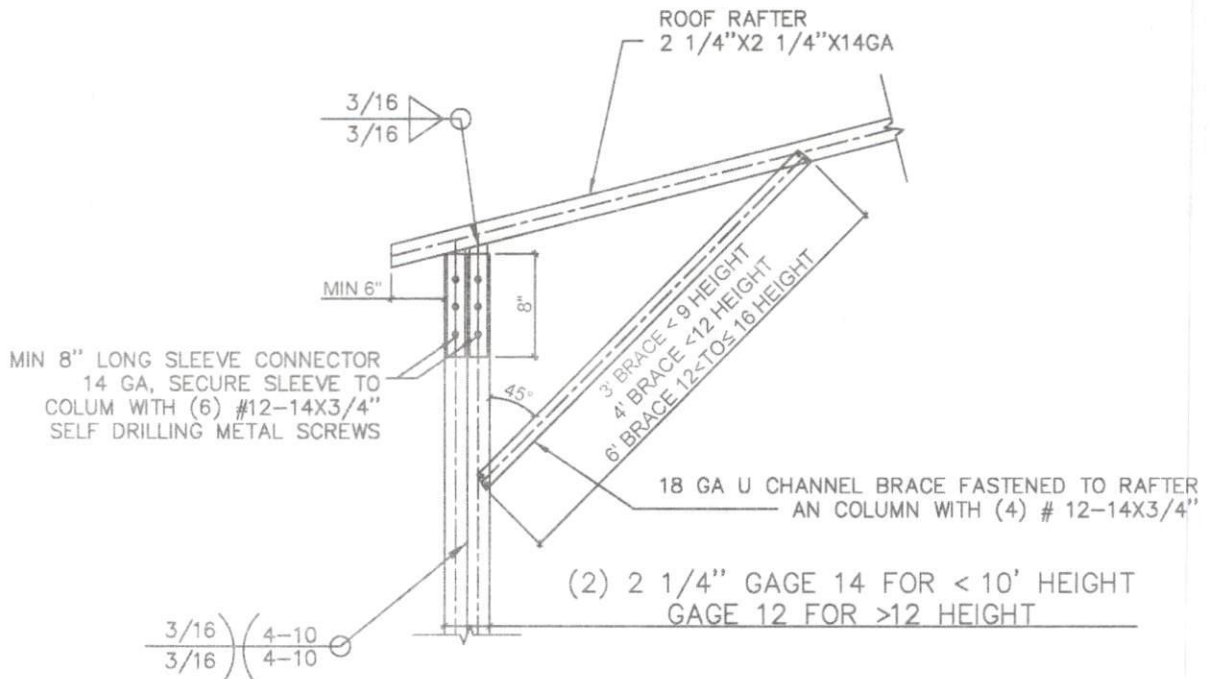
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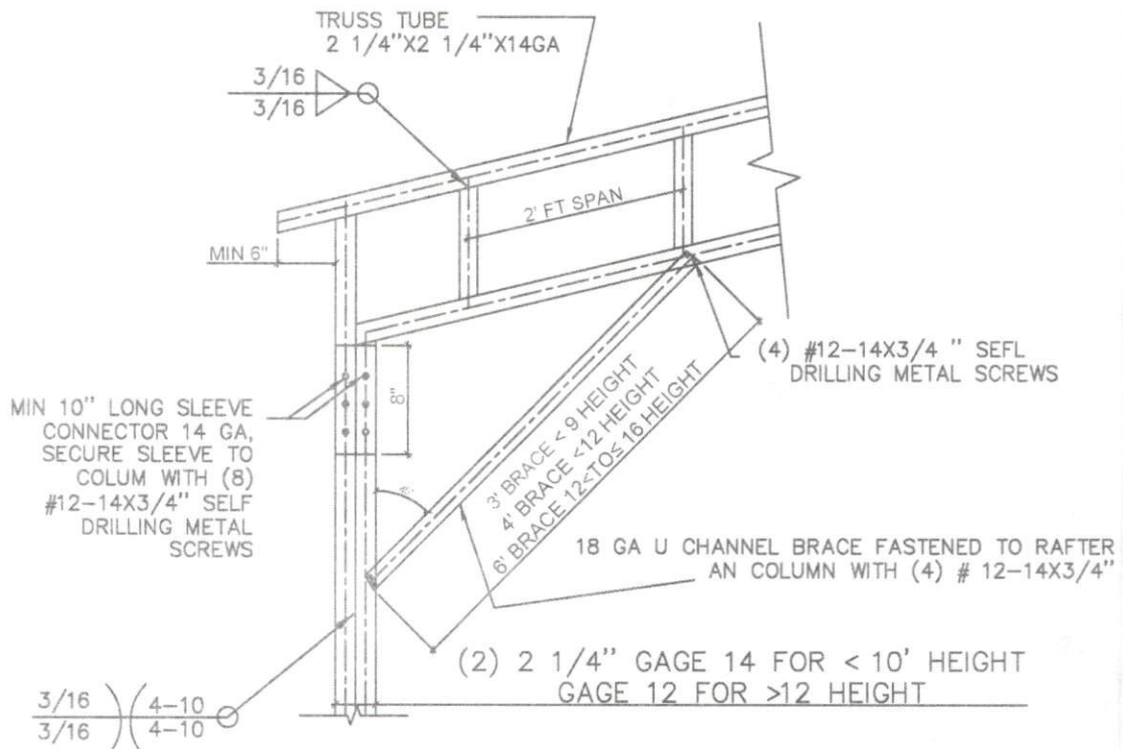
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1 SINGLE FRAME RAFTER- DOUBLE COLUMN CONNECTION DETAIL
FOR WIND SPEEDS 130 TO 150 MPH COLUMN HEIGHT UP TO 16 FT



2 TRUSS FRAME RAFTER-DOUBLE COLUMN CONNECTION DETAIL
FOR WIND SPEEDS 130 TO 150 MPH COLUMN HEIGHT UP TO 16 FT

DETAILS

NTS



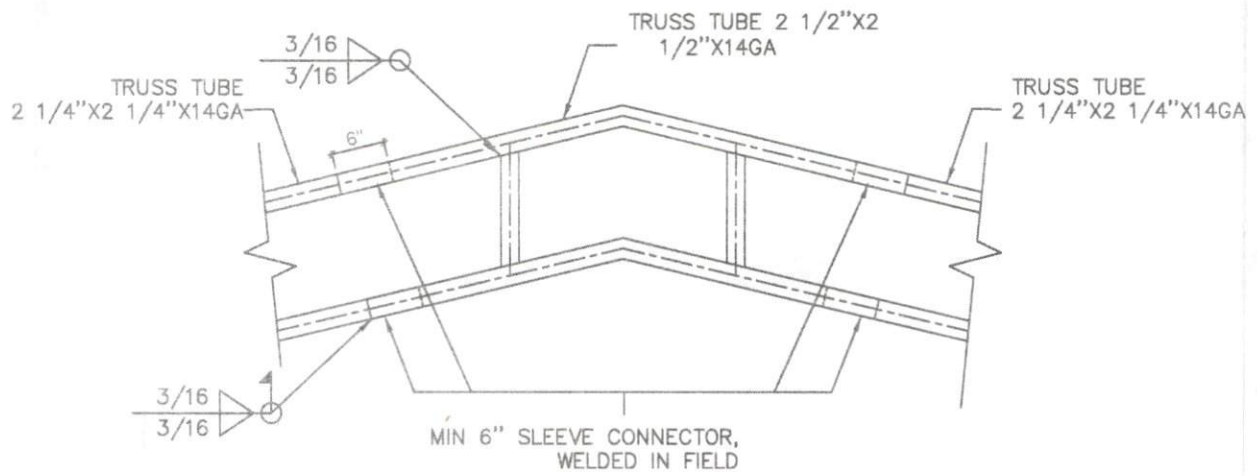
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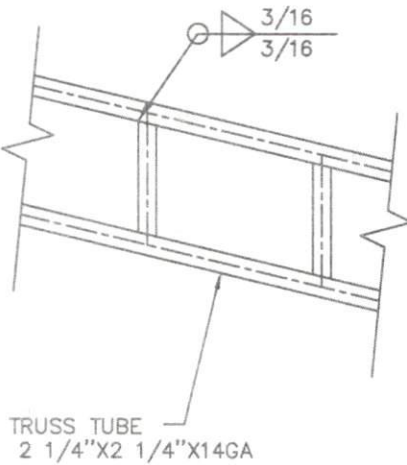
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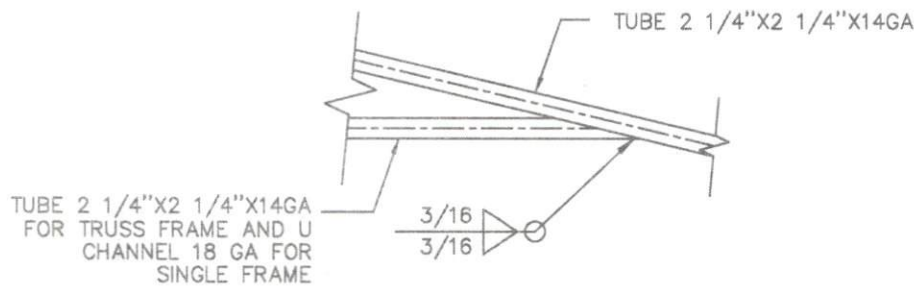




1 TRUSS-TRUSS CONNECTION DETAIL
NO SCALE



2 TRUSS WELD DETAIL
NO SCALE



DETAILS
NTS

3 SINGLE FRAME WELD DETAIL
NO SCALE



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2			
1			
NO.	DATE	REVISIONS AND RECORD OF ISSUE	CHK.
NAME:		James Allen	
ADDRESS:		361 Mabry Rd Angier, NC 27501	
DRAWN:	CHECKED:	DATE:	PROJECT #:
MR	PTH	07/31/2023	2201-010434D

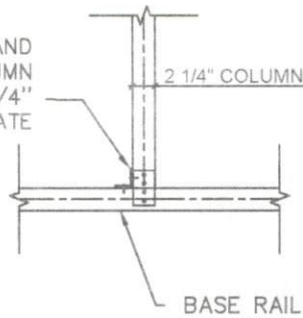
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DRAWING NUMBER:
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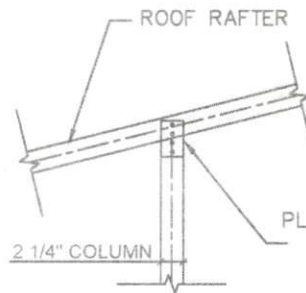
REV.
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2"x2"x2 1/4"-14 GA (1) FLAT PLATE AND
(1) ANGLE PLATE TO SECURE COLUMN
TO BASE RAIL WITH (4) #12-14X3/4"
SELF DRILLING SCREWS ON EACH PLATE

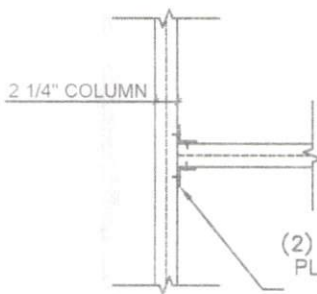


1 FLAT PLATE CONNECTION COLUMN TO BASE RAIL
NO SCALE



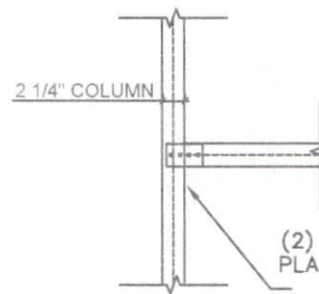
2"x2"x2 1/2"-14 GA FLAT
PLATE TO SECURE COLUMN TO
BASE RAIL WITH (4)
#12-14X3/4" SELF DRILLING
SCREWS

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

3 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

3 FLAT PLATE HEADER-COLUMN CONNECTION DETAIL
NO SCALE

DETAILS

NTS



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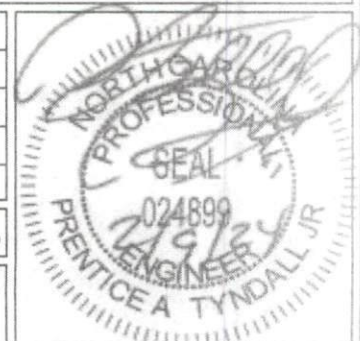
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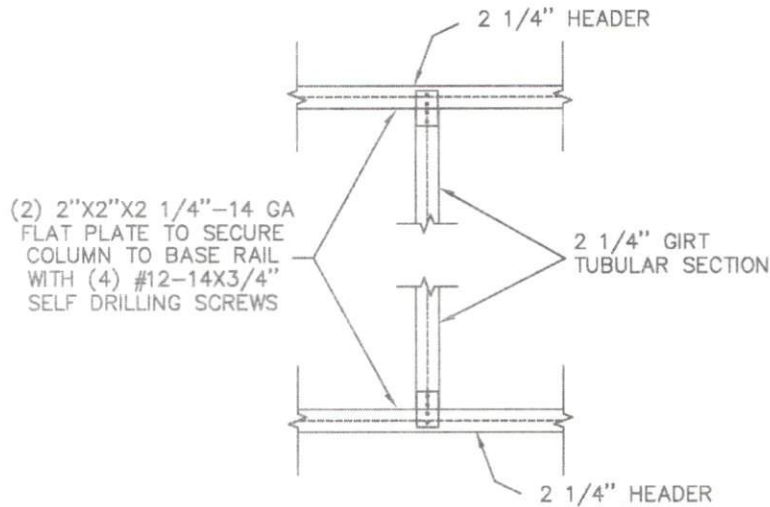
NO.	DATE	REVISIONS AND RECORD OF ISSUE	CHK.
NAME:	James Allen		
ADDRESS:	361 Mabry Rd Angier, NC 27501		
DRAWN: MR	CHECKED: PTH	DATE: 07/31/2023	PROJECT #: 2201-010434D

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BUILDING

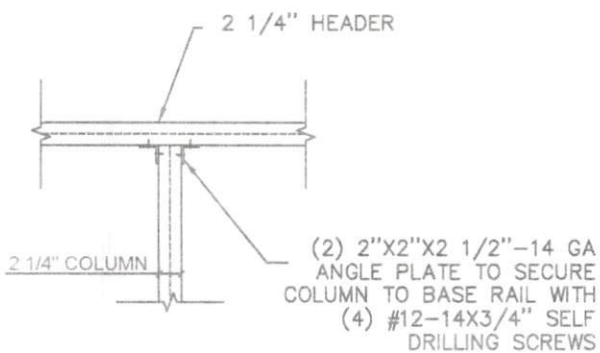
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REV.
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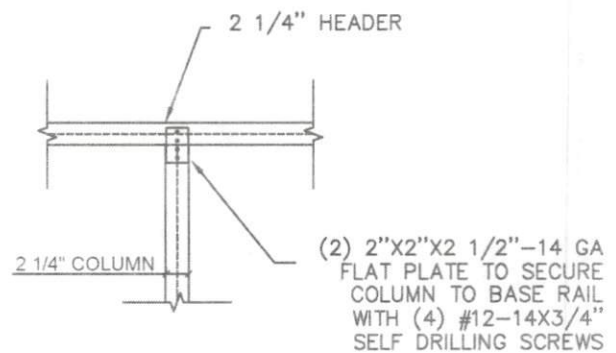




1 FLAT PLATE HEADER CONNECTION FOR WINDOW DETAIL
NO SCALE



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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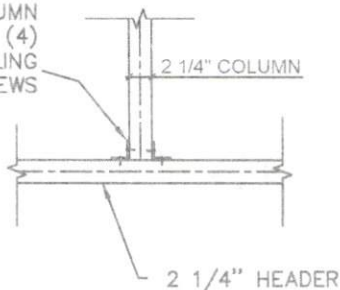
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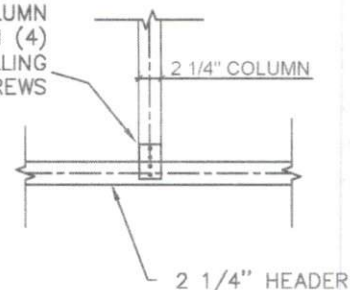


2"X2"X2 1/2"-14 GA ANGLE
PLATE TO SECURE COLUMN
TO BASE RAIL WITH (4)
#12-14X3/4" SELF DRILLING
SCREWS

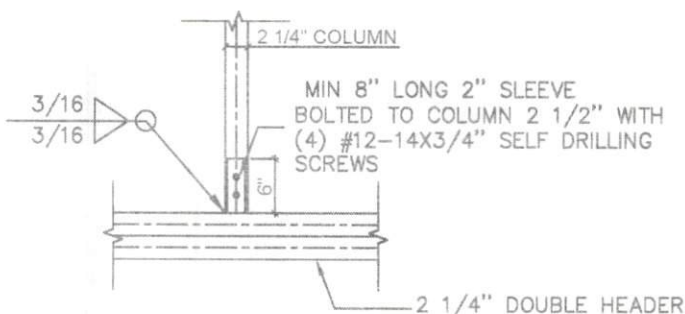


NO SCALE 1 A ANGLE PLATE CONNECTION COLUMN-HEADER
FOR 9'X8' OR 10X8 ROLLER DOOR SPAN UP TO 9 FT

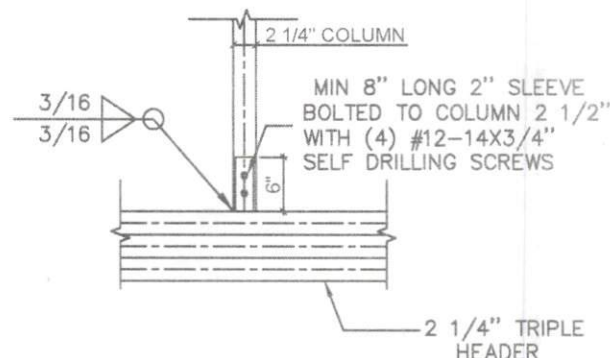
2"X2"X2 1/2"-14 GA FLAT
PLATE TO SECURE COLUMN
TO BASE RAIL WITH (4)
#12-14X3/4" SELF DRILLING
SCREWS



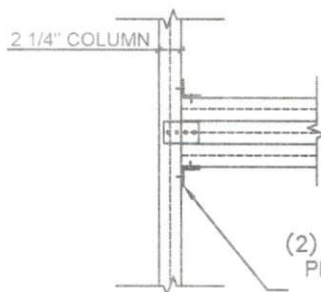
NO SCALE 1 B FLAT PLATE CONNECTION COLUMN-HEADER
FOR 9'X8' OR 10X8 ROLLER DOOR SPAN UP TO 9 FT



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



NO SCALE 3 DOUBLE HEADER-COLUMN CONNECTION DETAIL
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

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

DETAILS

NTS

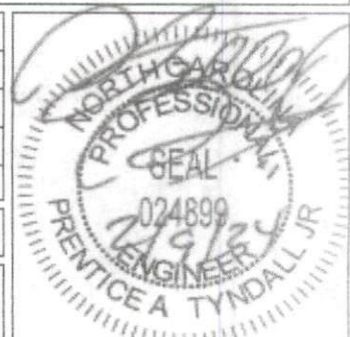


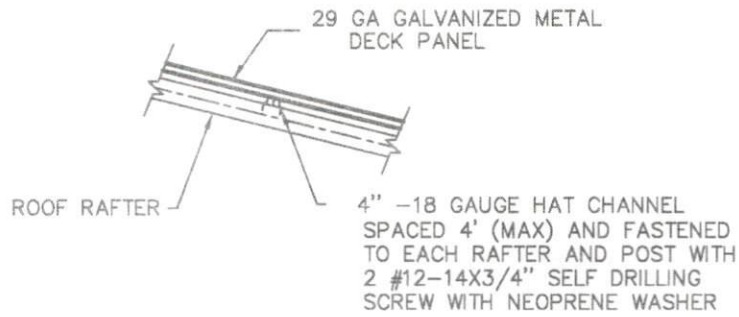
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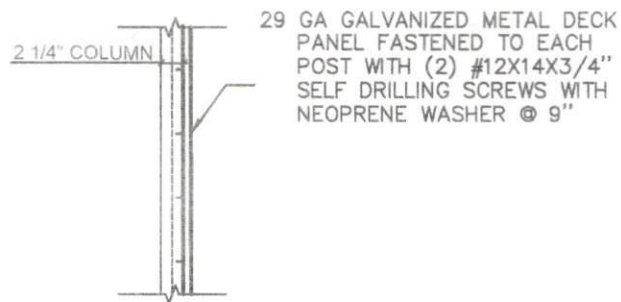
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PROJECT: ENCLOSED BUILDING		DRAWING NUMBER: 18 of 23	REV. A

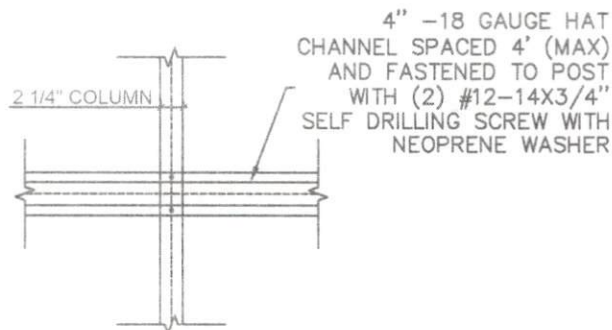




1 SINGLE FRAME RAFTER-COLUMN CONNECTION DETAIL
NO SCALE



2 DECKING-COLUMN CONNECTION
NO SCALE



3 HAT-COLUMN CONNECTION DETAIL FOR VERTICAL DECKING
NO SCALE

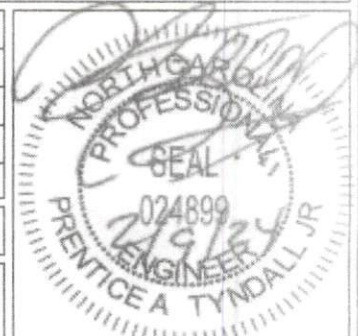


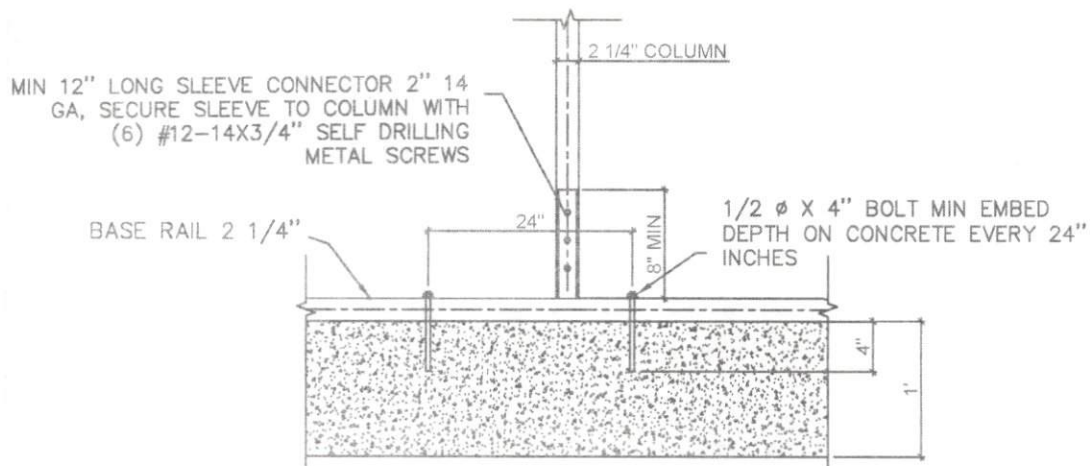
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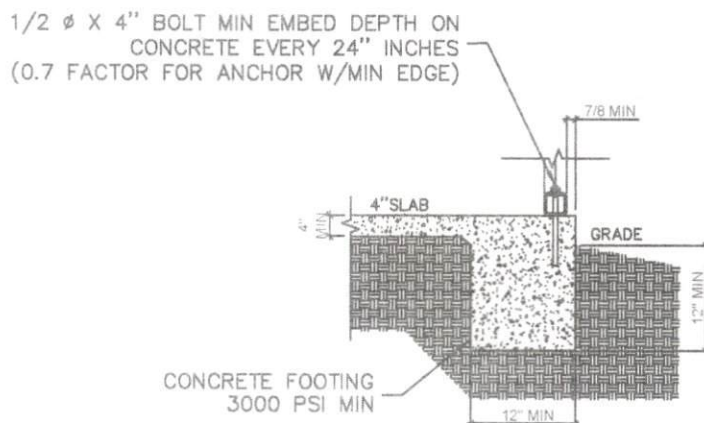
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1 BASE RAIL ANCHOR CONNECTION DETAIL FOR WINDS UP 120 MPH
NO SCALE



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

DETAILS

NTS

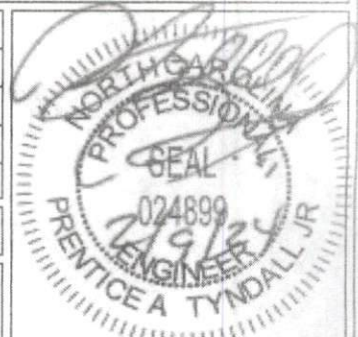


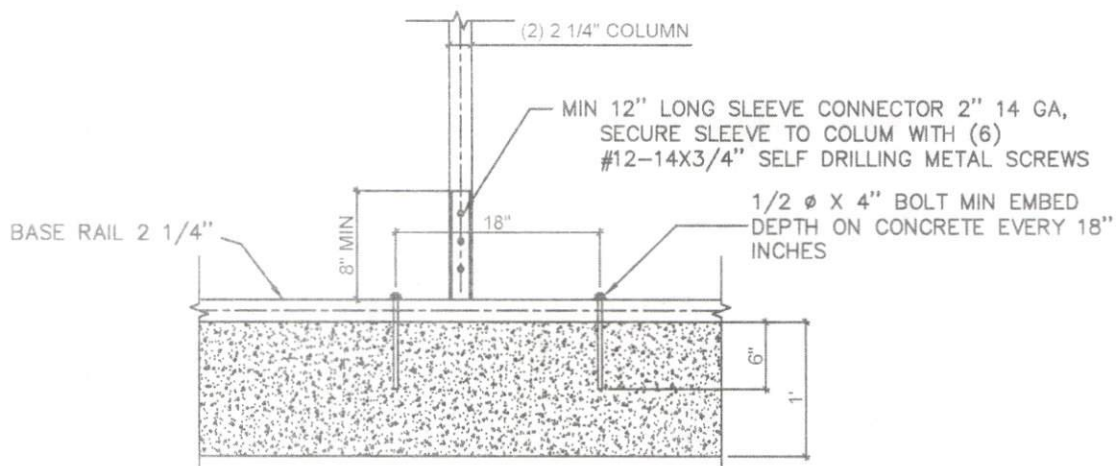
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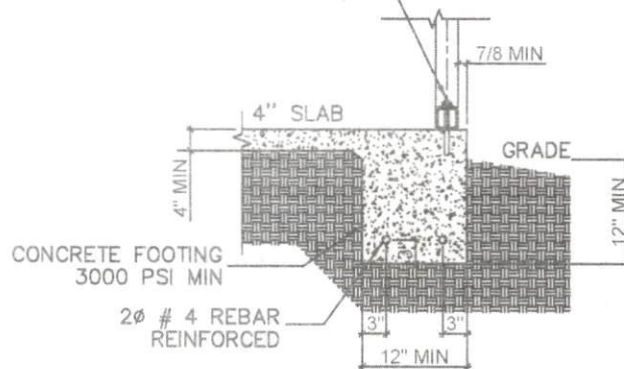
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1 COLUMN BASE RAIL ANCHOR CONNECTION DETAIL FOR WINDS 130 MPH TO 150 MPH
NO SCALE

1/2 Ø 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

DETAILS

NTS



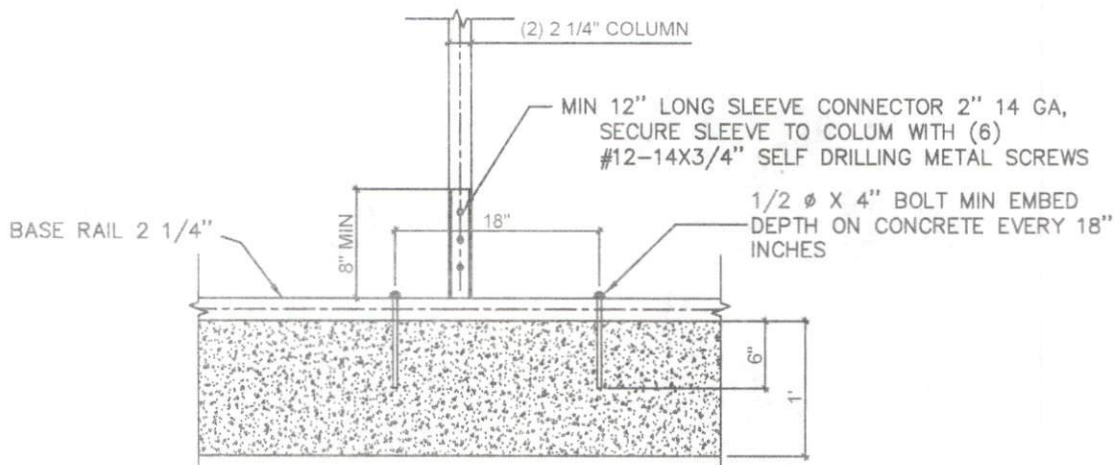
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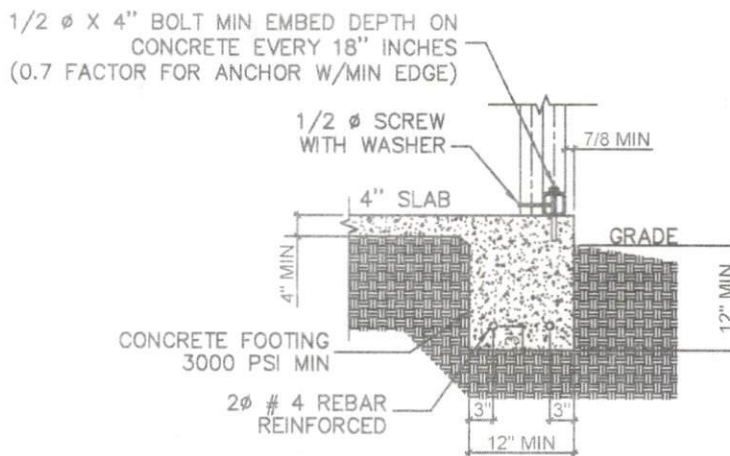
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1			
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PROJECT: ENCLOSED BUILDING		DRAWING NUMBER:	REV.
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1 DOUBLE COLUMN BASE RAIL ANCHOR CONNECTION DETAIL FOR WINDS 130 MPH TO 150 MPH
NO SCALE



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

DETAILS

NTS



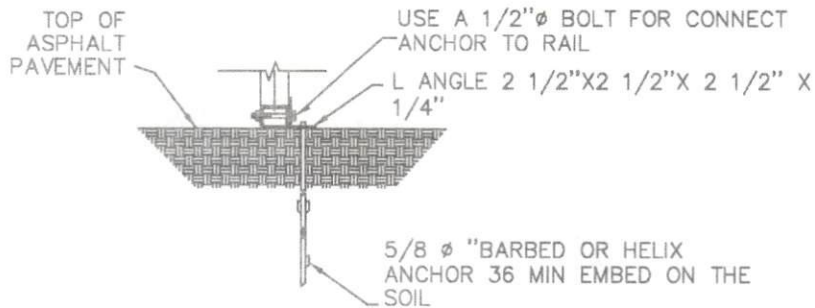
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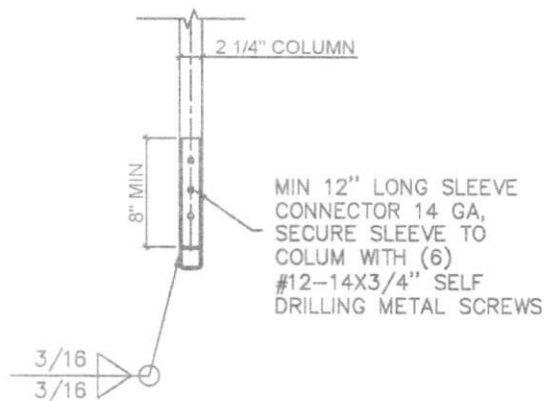
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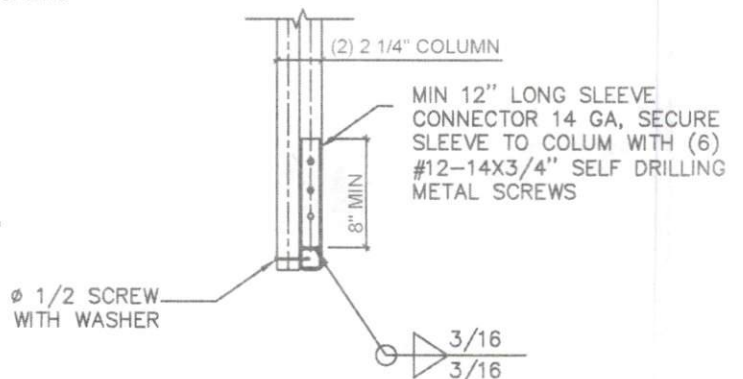




1 BASE RAIL ANCHORAGE WITH BARBED OR HELIX ANCHOR
NO SCALE



2 BASE RAIL-COLUMN CONNECTION DETAIL
NO SCALE



3 BASE RAIL-COLUMN CONNECTION DETAIL
NO SCALE



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