



# STRUCTURAL PLANS

Structure Size: 30'x49'x12'

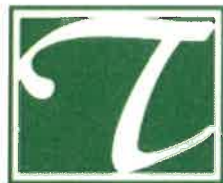
Customer: Jaime Phelps

Address: 3483 US 401 S Lillington NC 27546

**Prepared For:**

SUPERIOR METAL STRUCTURES & CONCRETE, LLC

**Prepared By:**

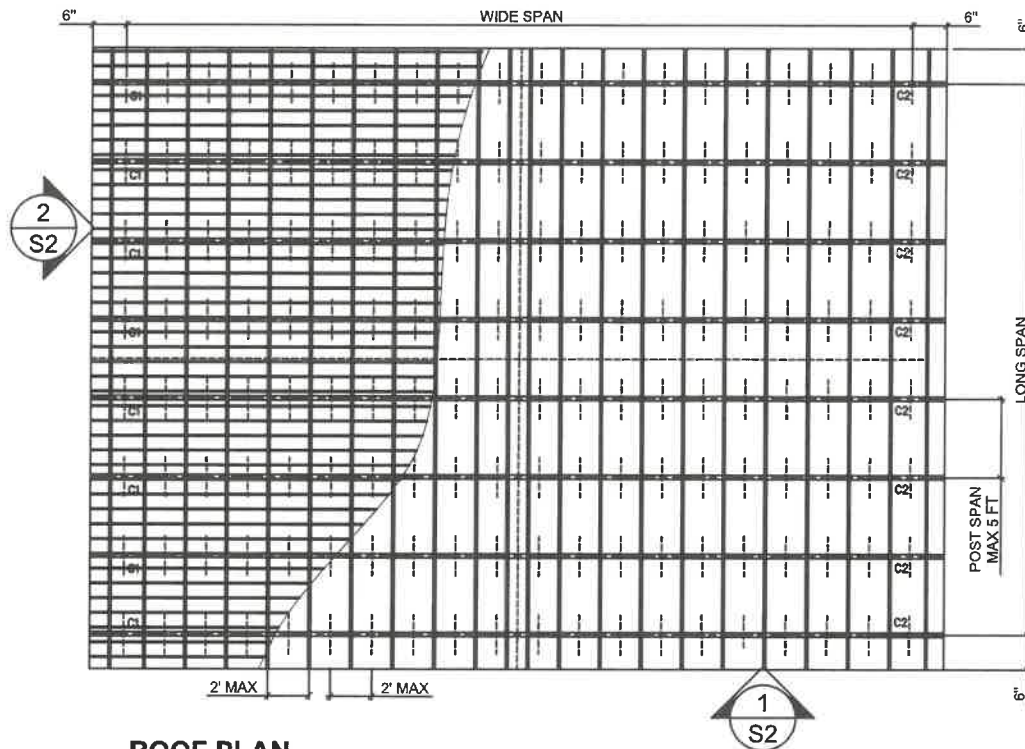


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**THESE STRUCTURAL ENGINEERED PLANS ARE TO BE INCLUDED IN YOUR  
PERMIT APPLICATION AND STRUCTURE IS TO BE BUILT BY SUPERIOR METAL  
STRUCTURES & CONCRETE, LLC**

910.298.3774



## ROOF PLAN

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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 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:	Jaime Phelps		
ADDRESS:	3483 US 401 S Lillington NC		
DRAWN: MR	CHECKED: PTII	DATE: 07/31/2023	PROJECT #: 2201-010434D

CLIENT: SUPERIOR MS&C,  
LLC

PROJECT: ENCLOSED  
BUILDING

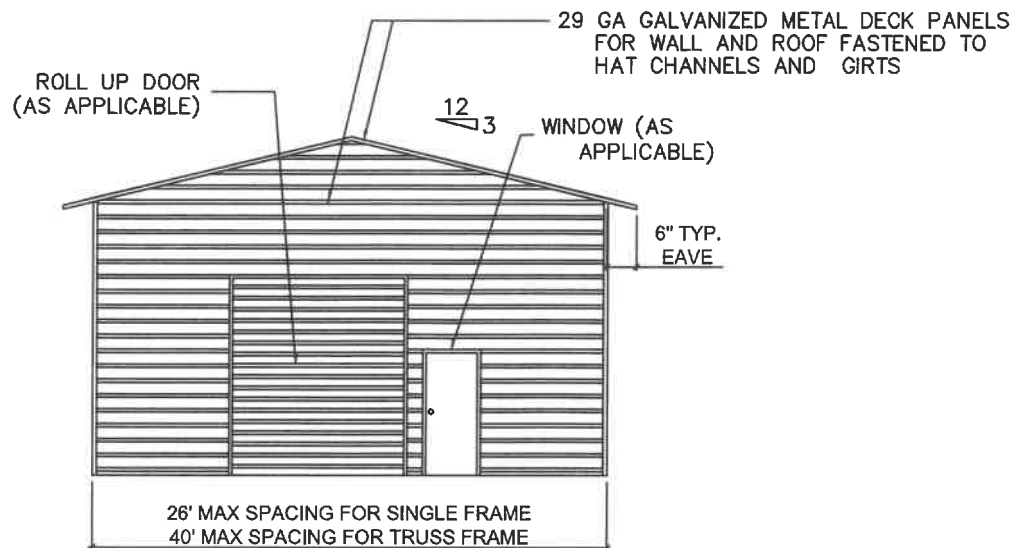
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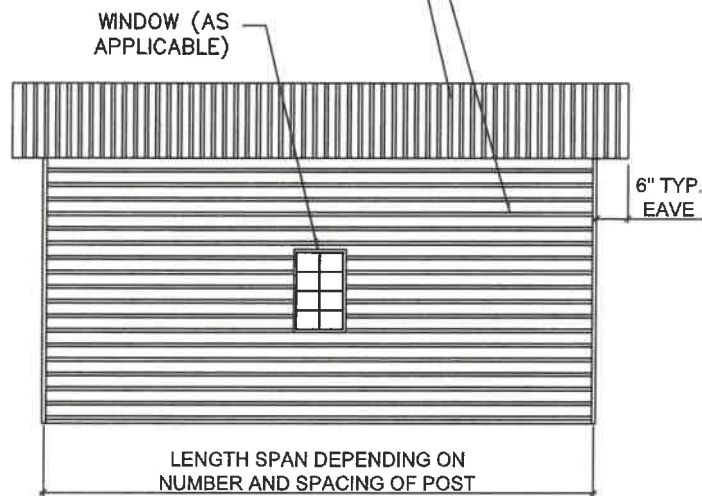
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1 TYPICAL ELEVATION  
NO SCALE

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 (I<sub>w</sub>) 1.00  
 SNOW (I<sub>s</sub>) 1.00  
 SEISMIC (I<sub>e</sub>) 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 S<sub>s</sub> 20.0 %g S<sub>1</sub> 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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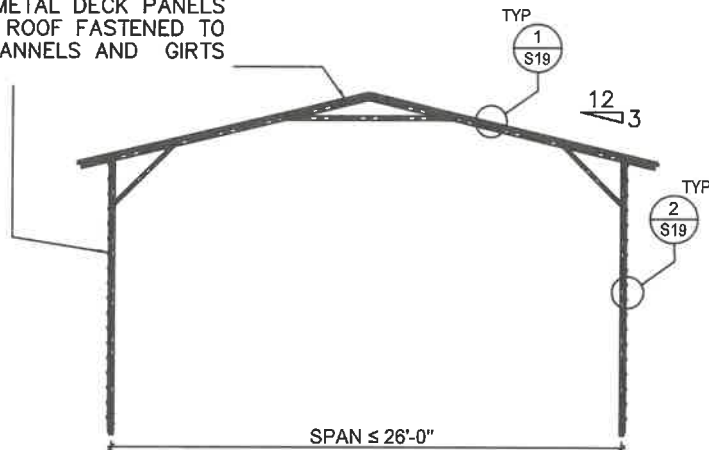
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PROJECT: ENCLOSED BUILDING		DRAWING NUMBER: 3 of 23	REV. A



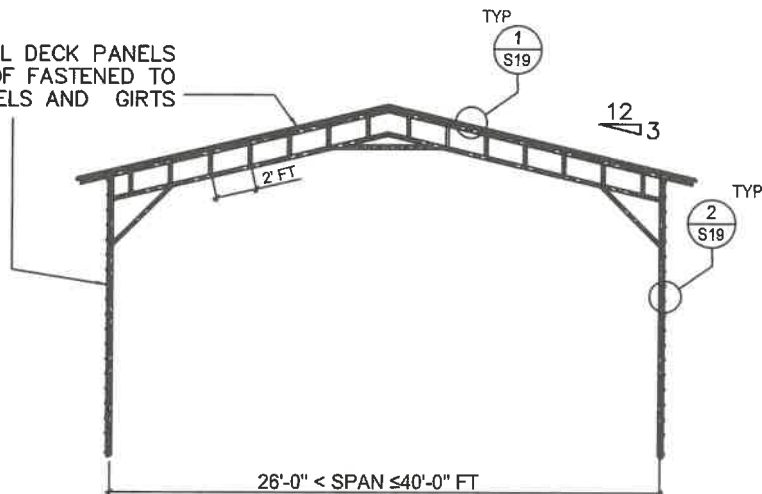
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29 GA GALVANIZED METAL DECK PANELS  
FOR WALL AND ROOF FASTENED TO  
HAT CHANNELS AND GIRTS



**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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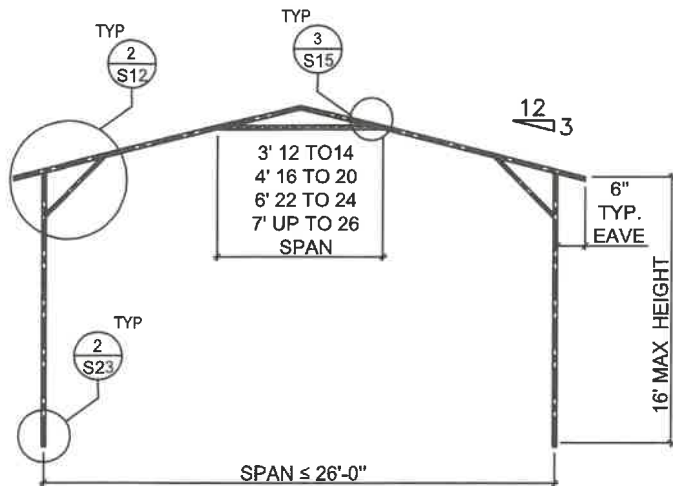
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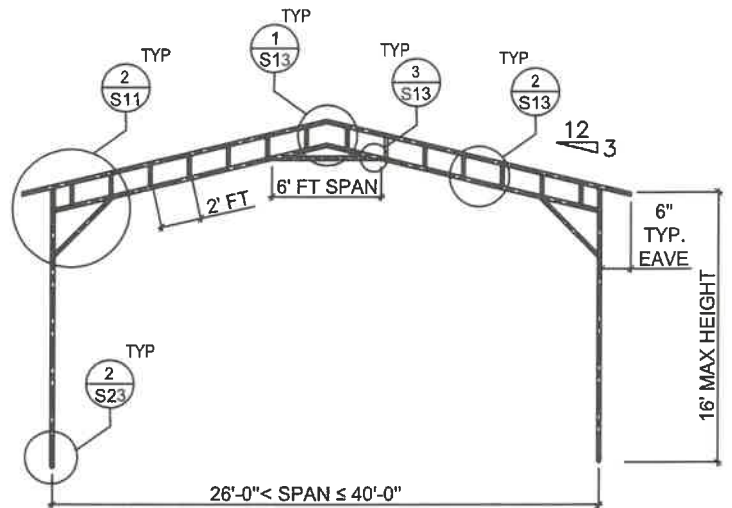
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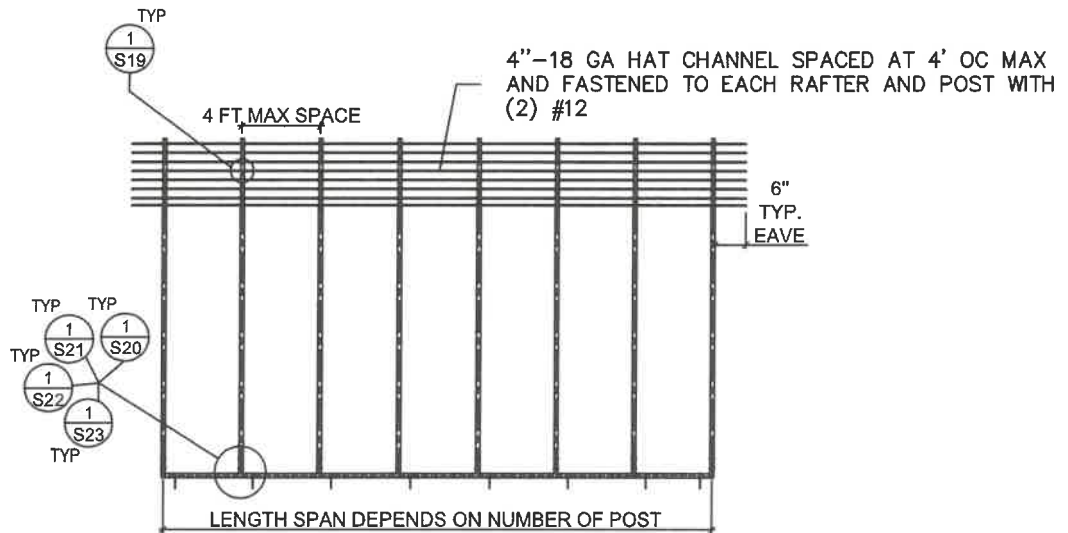




1 TYPICAL SINGLE FRAME SECTION  
NO SCALE A



1 TYPICAL TRUSS FRAME SECTION  
NO SCALE B



2 TYPICAL SIDE SINGLE FRAME SECTION  
NO SCALE C

## ELEVATION PLAN

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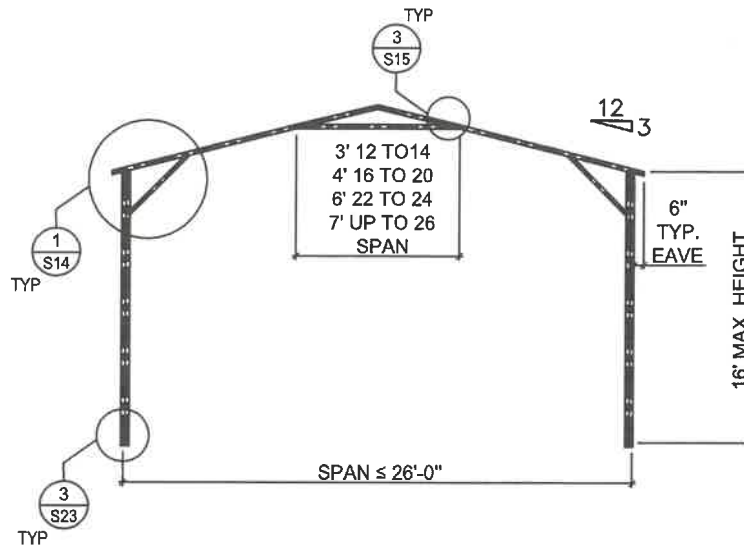
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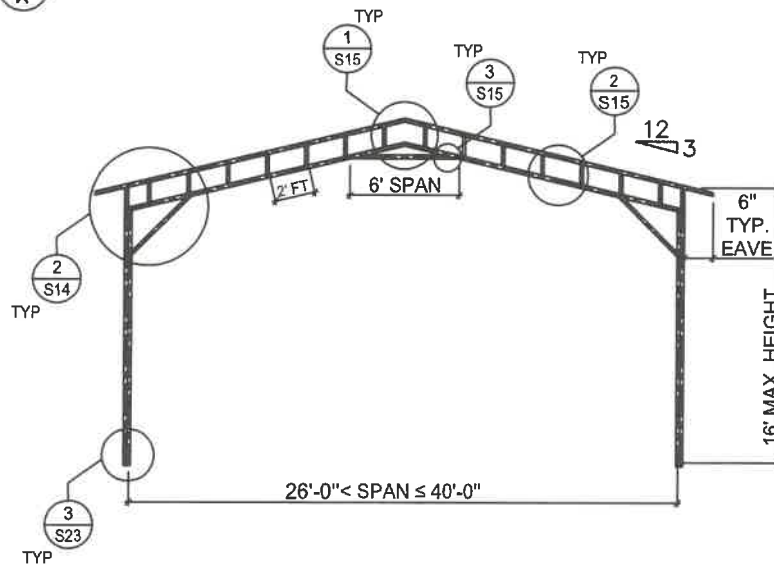
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ADDRESS:	3483 US 401 S Lillington NC		
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PROJECT: ENCLOSED BUILDING	DRAWING NUMBER: 5 of 23	REV. A	



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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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PROJECT: ENCLOSED  
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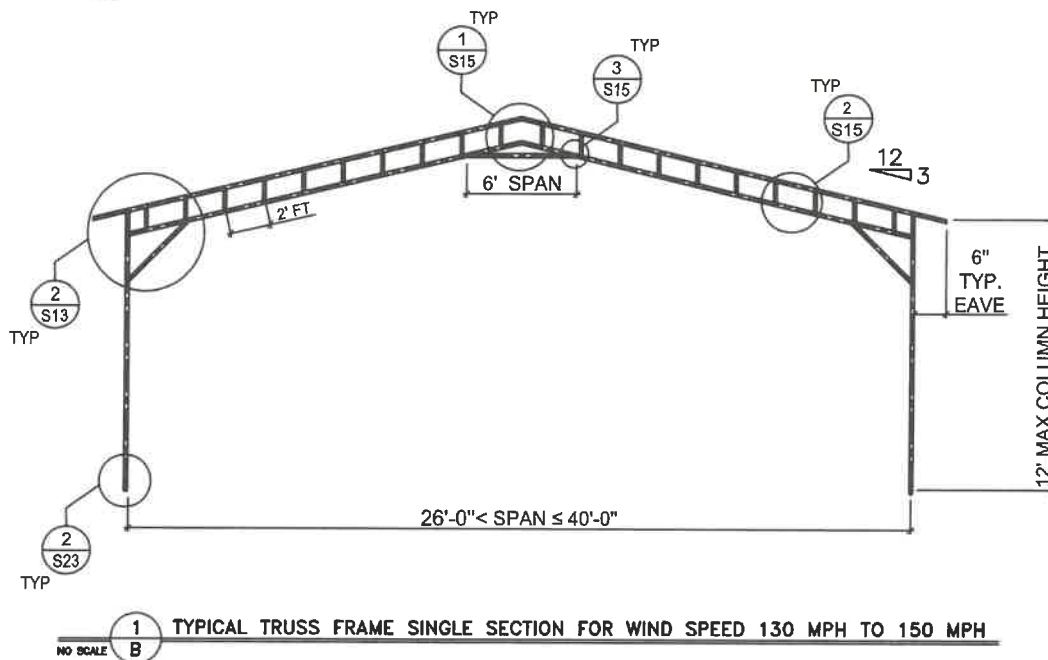
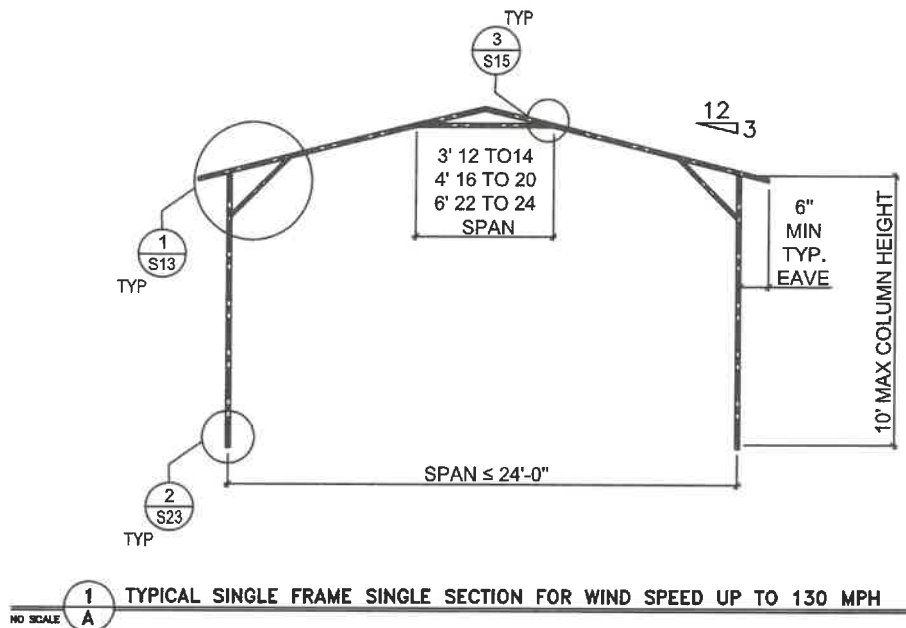
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PROJECT: ENCLOSED  
BUILDING

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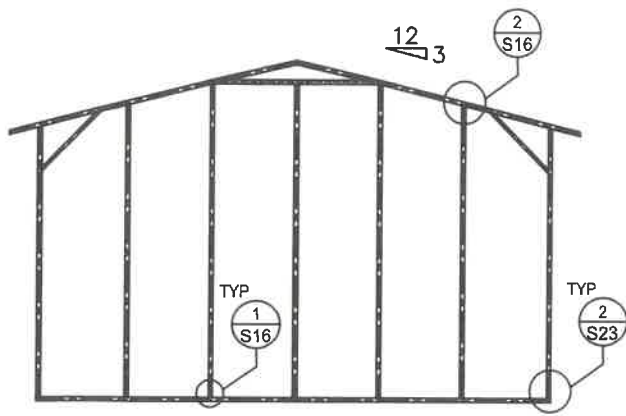
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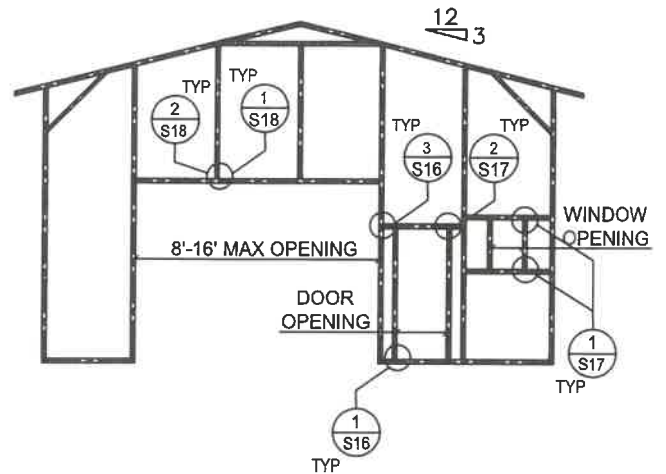


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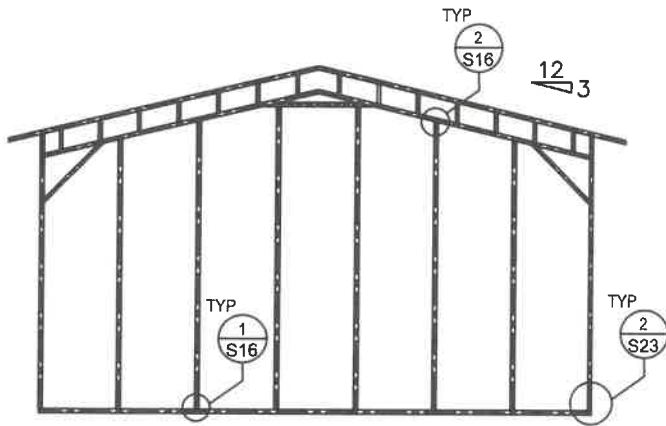




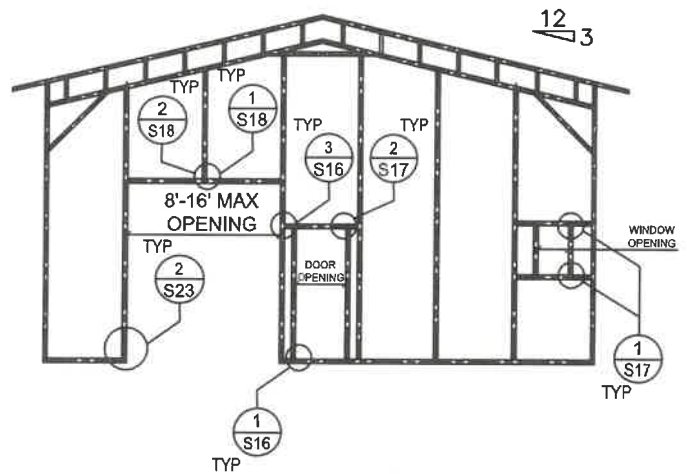
1 TYPICAL SINGLE FRAME ELEVATION  
NO SCALE A



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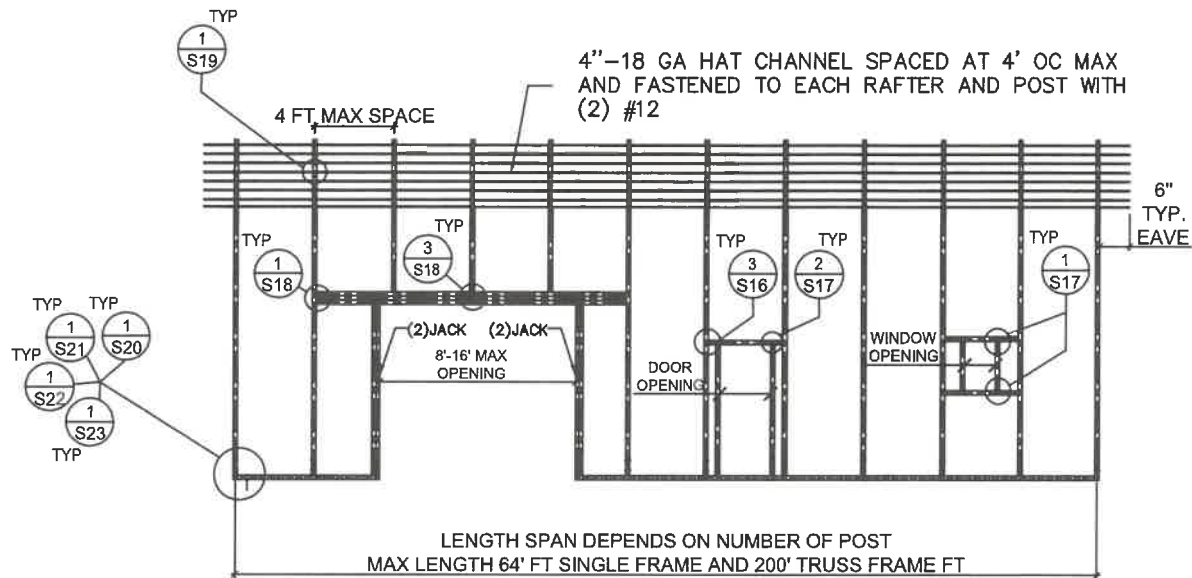
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1 FRAME SIDE ELEVATION W/ GARAGE DOOR, DOOR AND WINDOW FRAME  
NO SCALE

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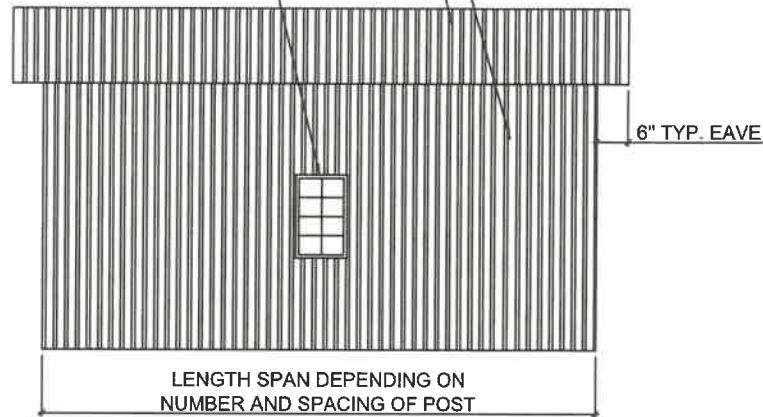
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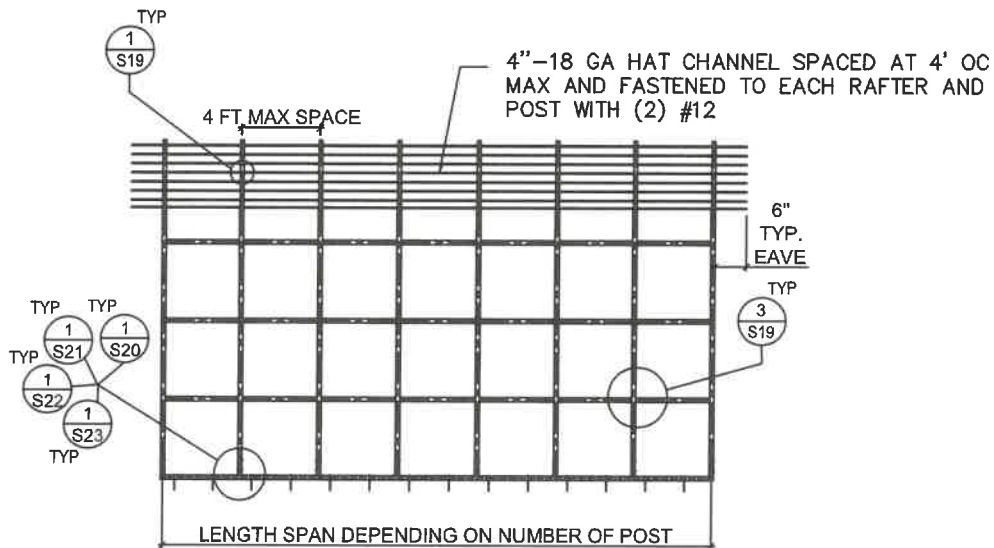


29 GA GALVANIZED METAL DECK PANELS  
FOR WALL AND ROOF FASTENED TO HAT  
CHANNELS AND GIRTS

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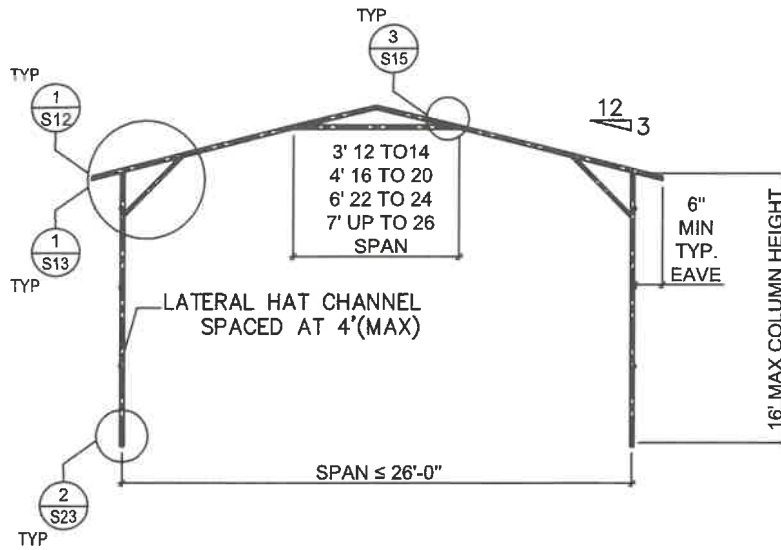
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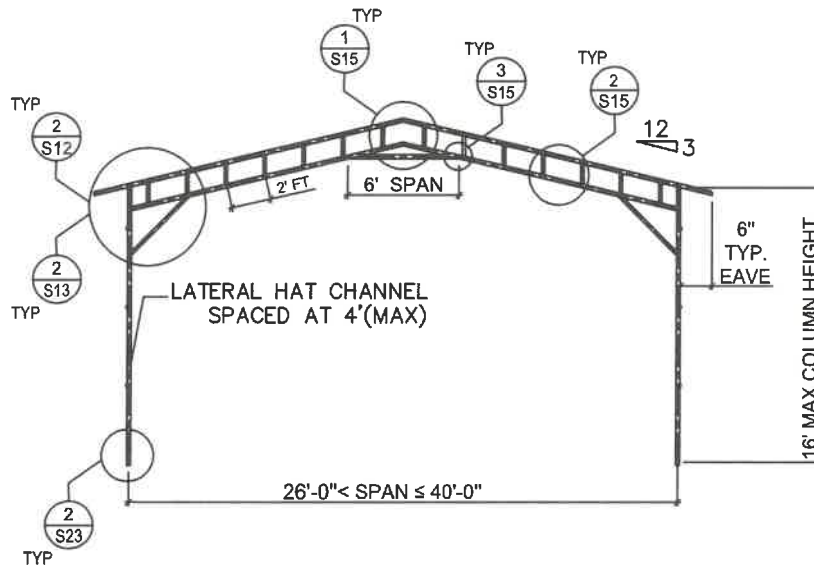
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1 C TYPICAL SINGLE FRAME SECTION FOR VERTICAL PANEL DECK  
NO SCALE



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

## ELEVATION PLAN

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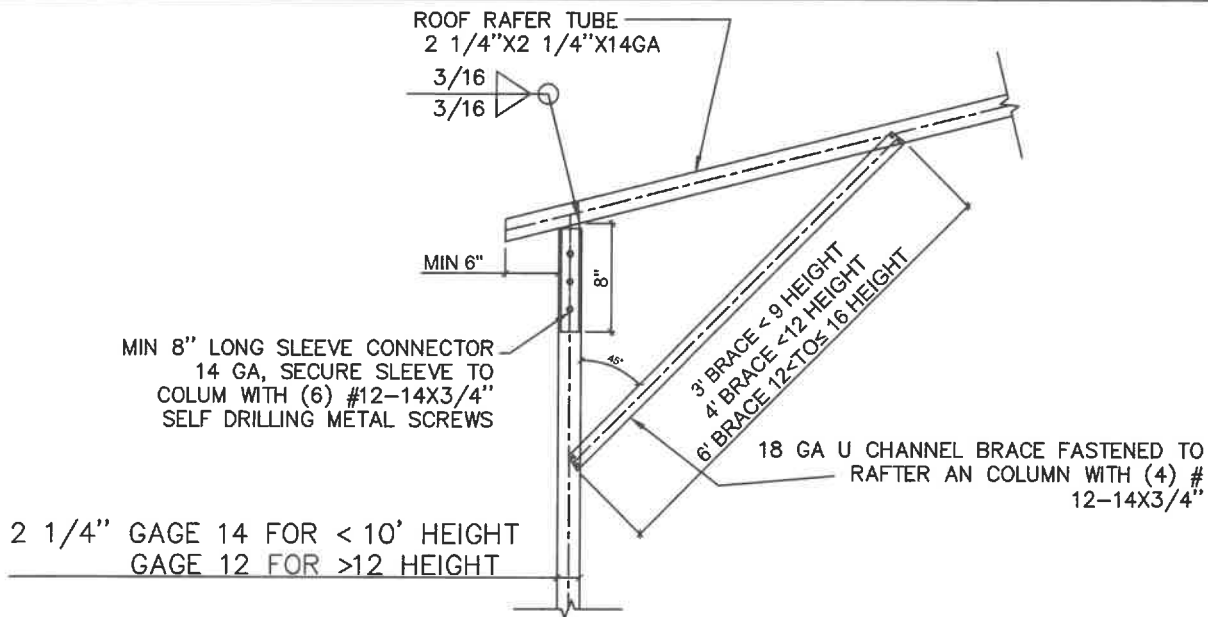
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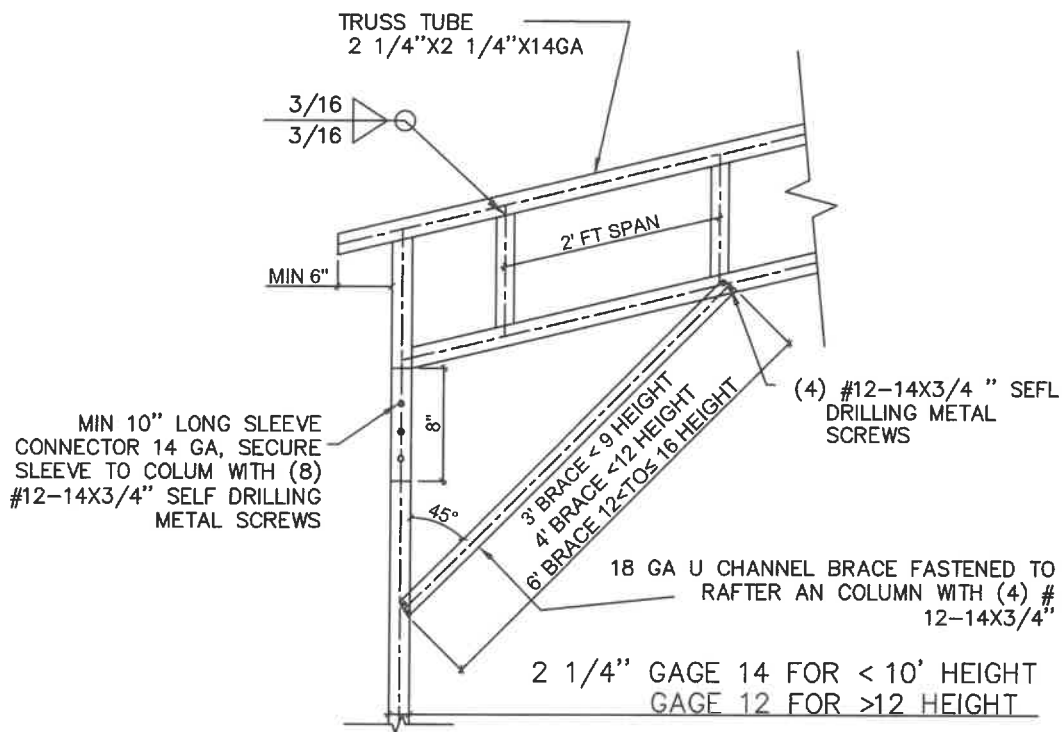
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1 SINGLE FRAME RAFTER-COLUMN CONNECTION DETAIL  
NO SCALE FOR WIND SPEEDS UP TO 120 MPH COLUMN HEIGHT ≤16 FT



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

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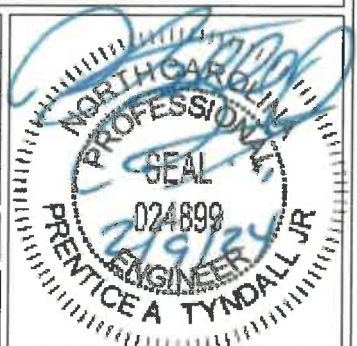
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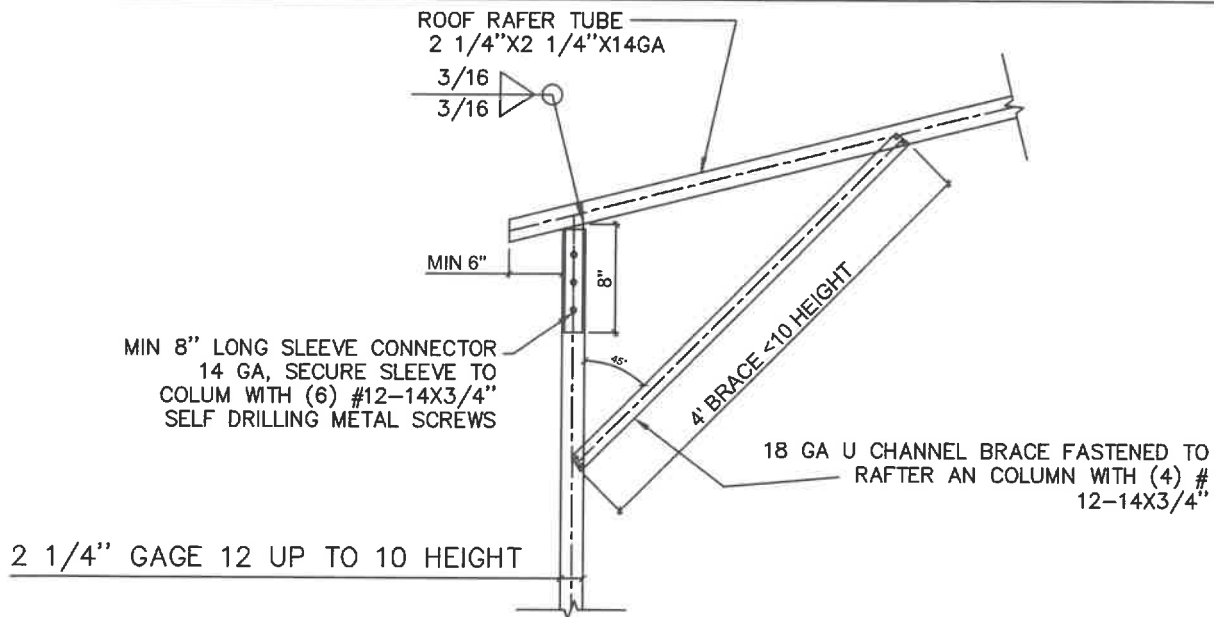
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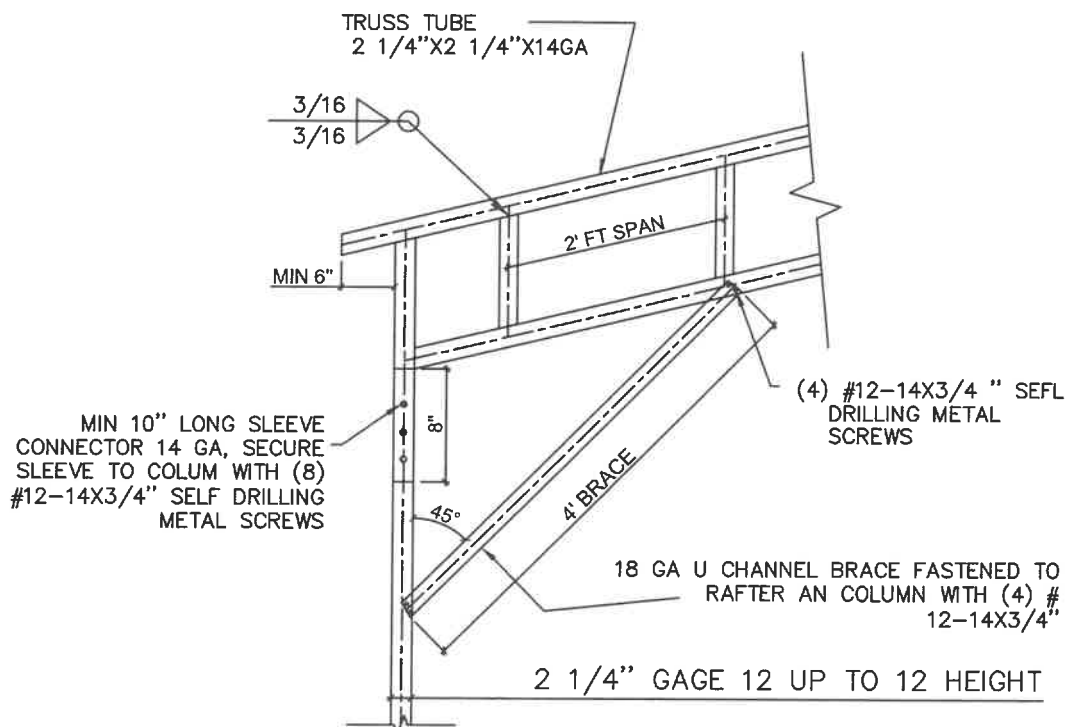
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1 SINGLE FRAME RAFTER-COLUMN CONNECTION DETAIL  
NO SCALE FOR WIND SPEEDS UP TO 130 MPH COLUMN HEIGHT  $\leq 10$  FT



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

## DETAILS

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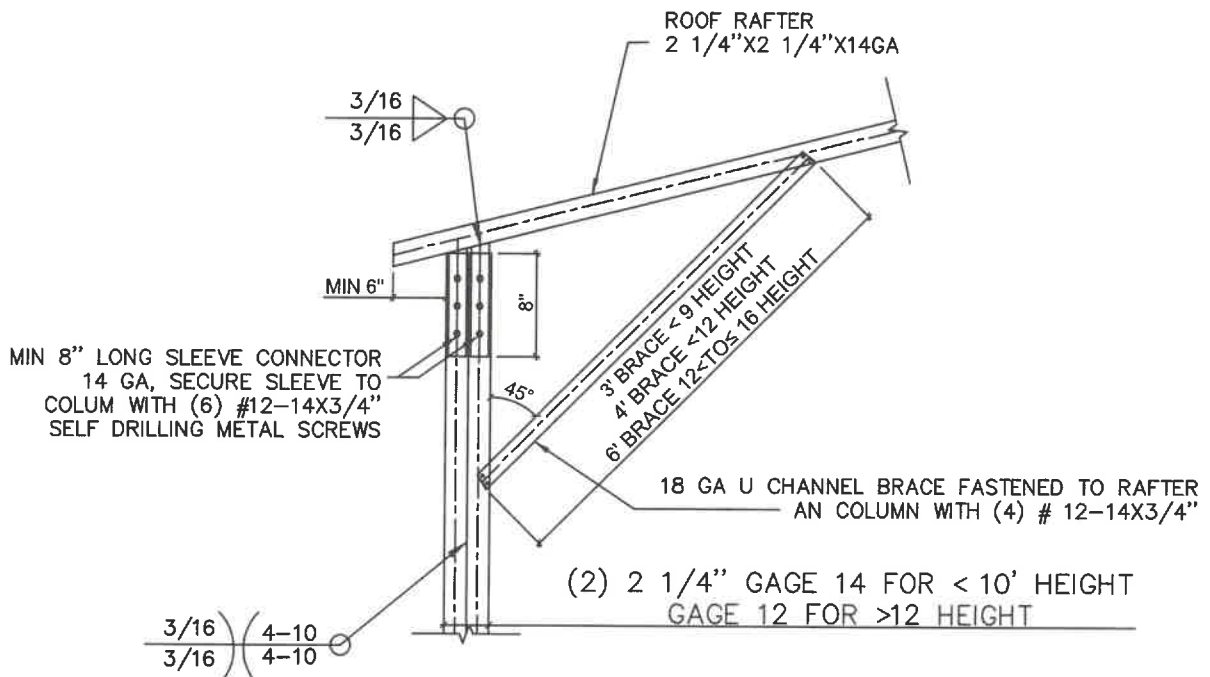
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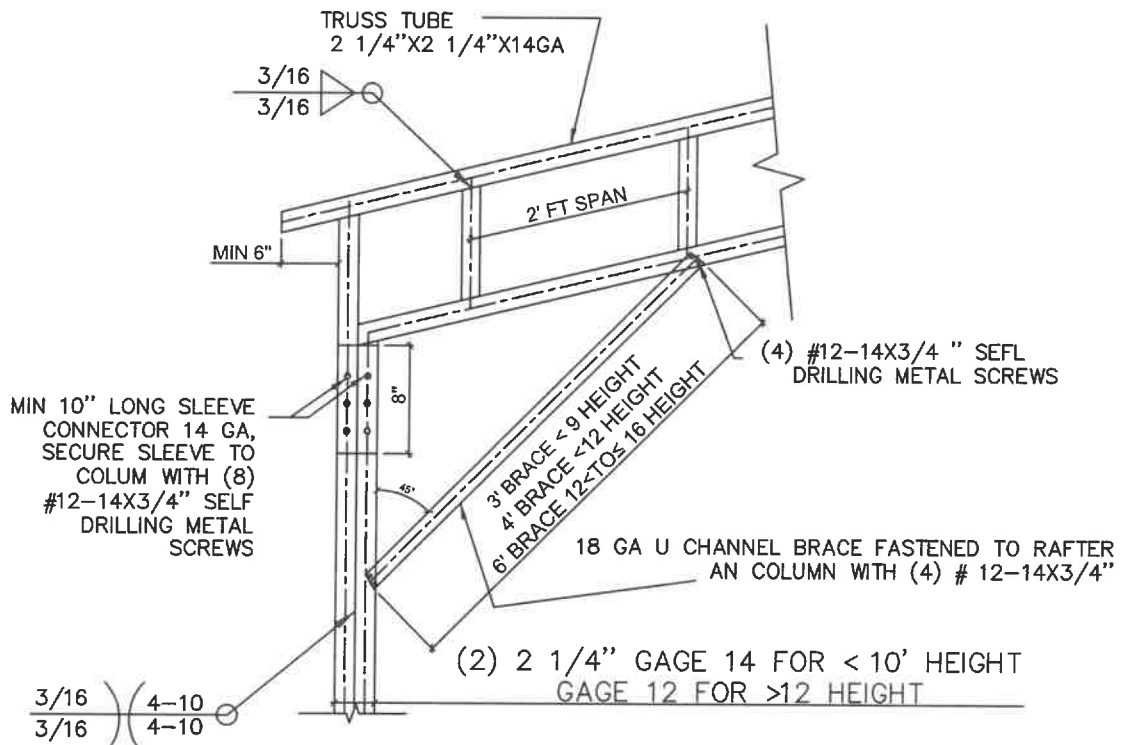
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1 SINGLE FRAME RAFTER- DOUBLE COLUMN CONNECTION DETAIL  
NO SCALE FOR WIND SPEEDS 130 TO 150 MPH COLUMN HEIGHT UP TO 16 FT



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

## DETAILS

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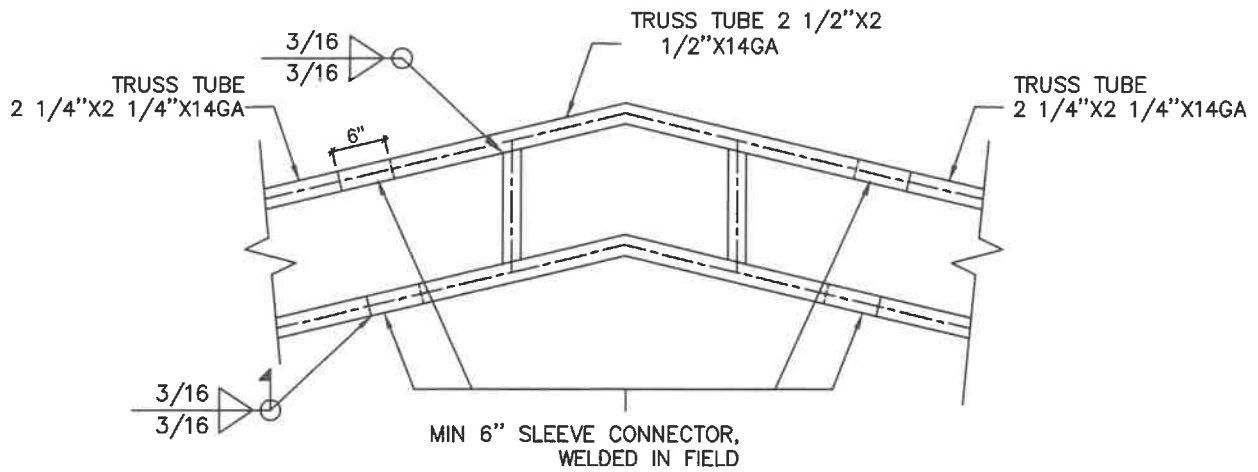
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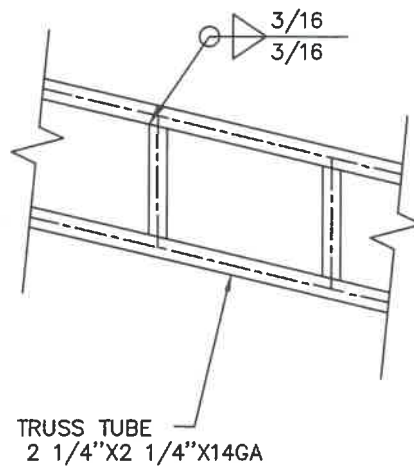
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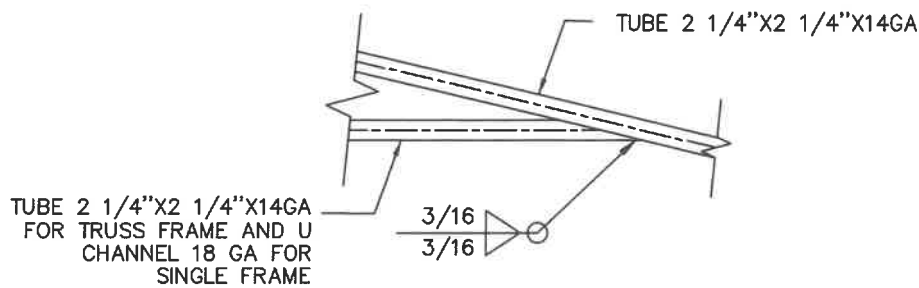




1 TRUSS-TRUSS CONNECTION DETAIL  
NO SCALE



2 TRUSS WELD DETAIL  
NO SCALE



3 SINGLE FRAME WELD DETAIL  
NO SCALE

## DETAILS

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ADDRESS:	3483 US 401 S Lillington NC		
DRAWN: MR	CHECKED: PTII	DATE: 07/31/2023	PROJECT #: 2201-010434D

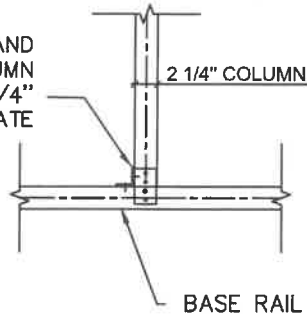
PROJECT: ENCLOSED  
BUILDING

DRAWING NUMBER:  
15 of 23

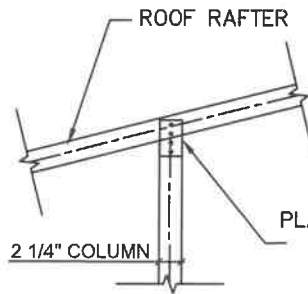
REV.  
A



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

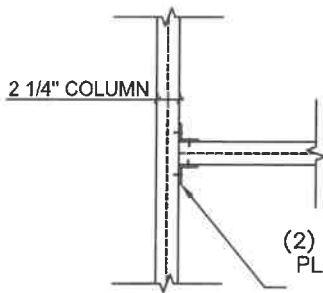


1 FLAT PLATE CONNECTION COLUMN TO BASE RAIL  
NO SCALE



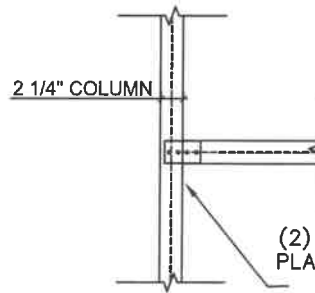
2"x2"x2 1/2"-14 GA FLAT  
PLATE TO SECURE COLUMN TO  
BASE RAIL WITH (4)  
#12-14X3/4" SELF DRILLING  
SCREWS

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

NTS



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LLC

2			
1			
NO.	DATE	REVISIONS AND RECORD OF ISSUE	CHK.
NAME:		Jaime Phelps	
ADDRESS:		3483 US 401 S Lillington NC	
DRAWN: MR	CHECKED: PTII	DATE: 07/31/2023	PROJECT #: 2201-010434D

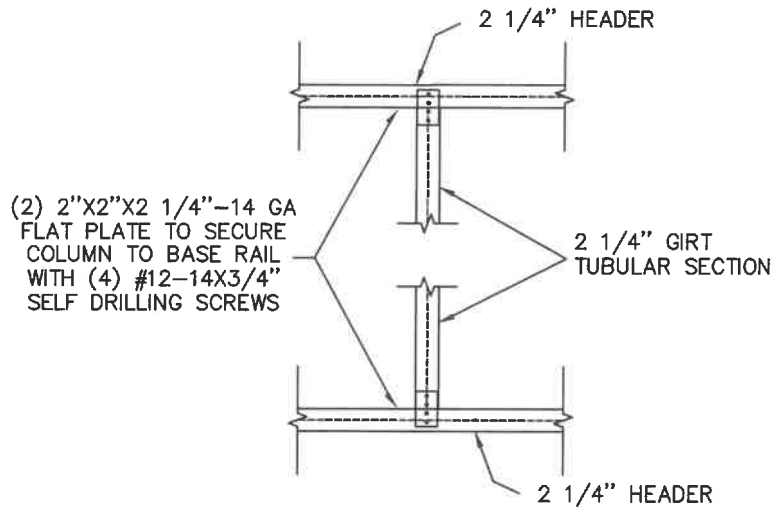
PROJECT: ENCLOSED  
BUILDING

DRAWING NUMBER:  
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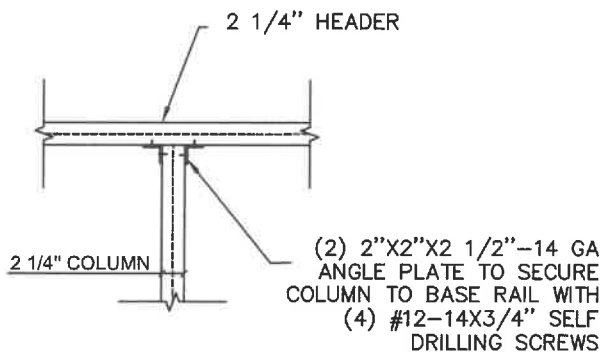
REV.  
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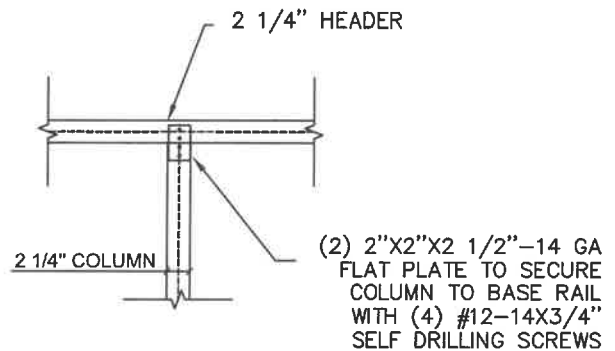




1 FLAT PLATE HEADER CONNECTION FOR WINDOW DETAIL  
NO SCALE



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



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

## DETAILS

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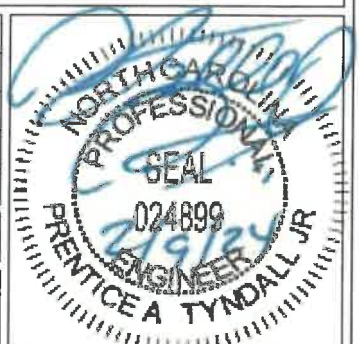
CLIENT: SUPERIOR MS&C,  
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2			
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NO.	DATE	REVISIONS AND RECORD OF ISSUE	CHK.
NAME:		Jaime Phelps	
ADDRESS:		3483 US 401 S Lillington NC	
DRAWN: MR	CHECKED: PTH	DATE: 07/31/2023	PROJECT #: 2201-010434D

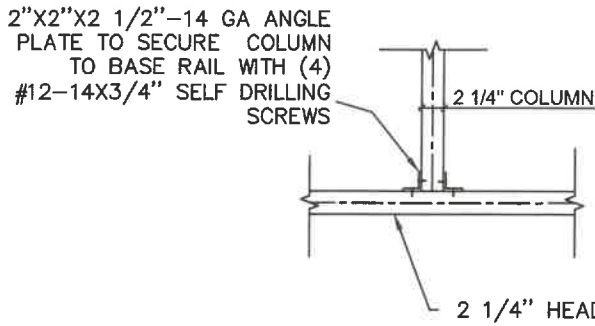
PROJECT: ENCLOSED  
BUILDING

DRAWING NUMBER:  
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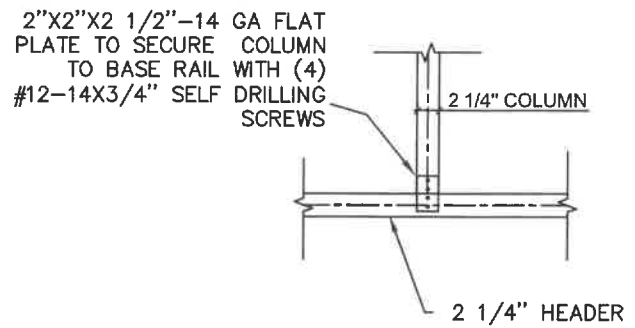
REV.  
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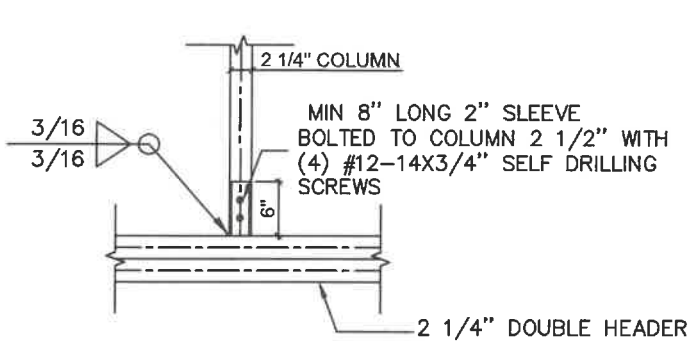




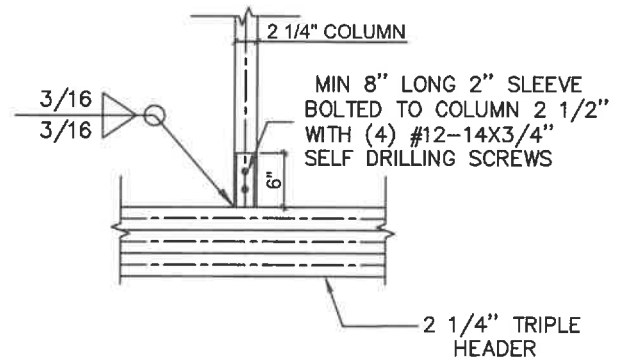
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A ANGLE PLATE CONNECTION COLUMN-HEADER  
NO SCALE FOR 9'X8' OR 10X8 ROLLER DOOR SPAN UP TO 9 FT



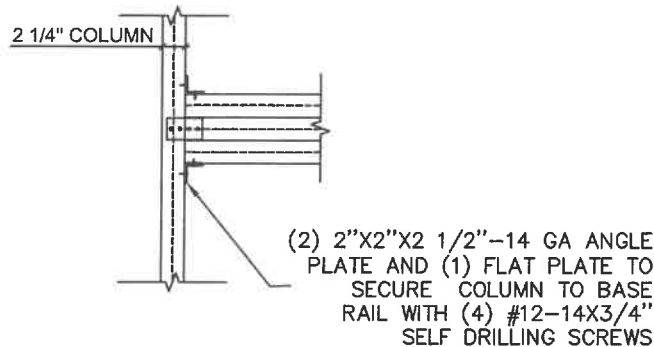
1  
B FLAT PLATE CONNECTION COLUMN-HEADER  
NO SCALE FOR 9'X8' OR 10X8 ROLLER DOOR SPAN UP TO 9 FT



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



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

## DETAILS

NTS



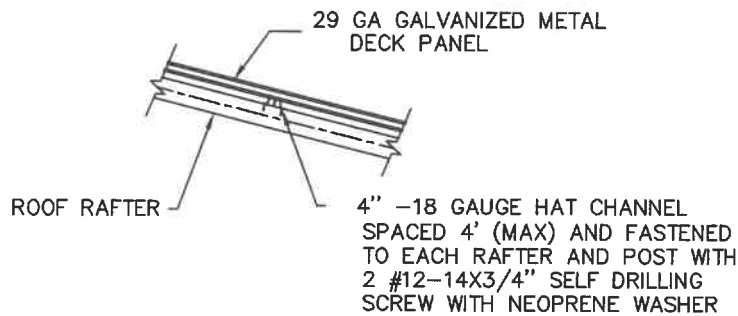
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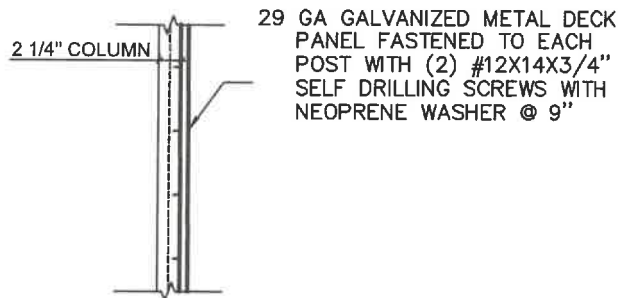
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2			
1			
NO.	DATE	REVISIONS AND RECORD OF ISSUE	CHK.
NAME:	Jaime Phelps		
ADDRESS:	3483 US 401 S Lillington NC		
DRAWN: MR	CHECKED: PTII	DATE: 07/31/2023	PROJECT #: 2201-010434D
PROJECT: ENCLOSED BUILDING	DRAWING NUMBER: 18 of 23	REV: A	

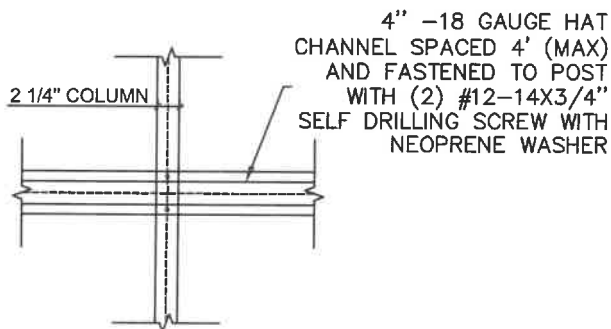




1 SINGLE FRAME RAFTER-COLUMN CONNECTION DETAIL  
NO SCALE



2 DECKING-COLUMN CONNECTION  
NO SCALE



3 HAT-COLUMN CONNECTION DETAIL FOR VERTICAL DECKING  
NO SCALE



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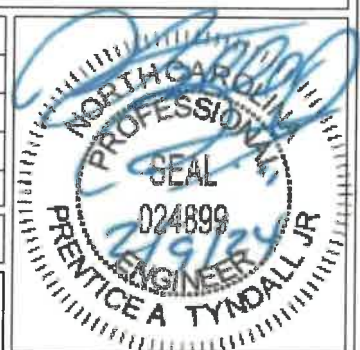
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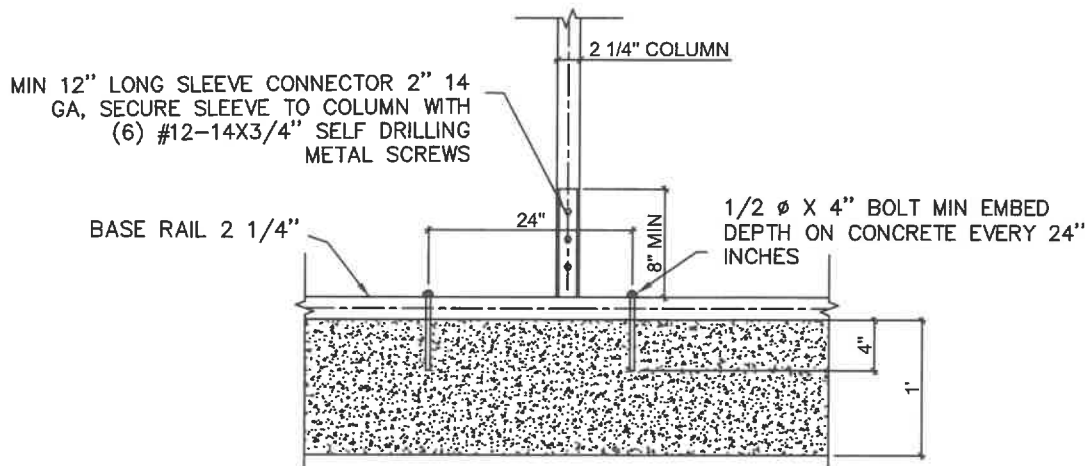
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1			
NO.	DATE	REVISIONS AND RECORD OF ISSUE	CHK.
NAME:	Jaime Phelps		
ADDRESS:	3483 US 401 S Lillington NC		
DRAWN: MR	CHECKED: PTII	DATE: 07/31/2023	PROJECT #: 2201-010434D

PROJECT: ENCLOSED  
BUILDING

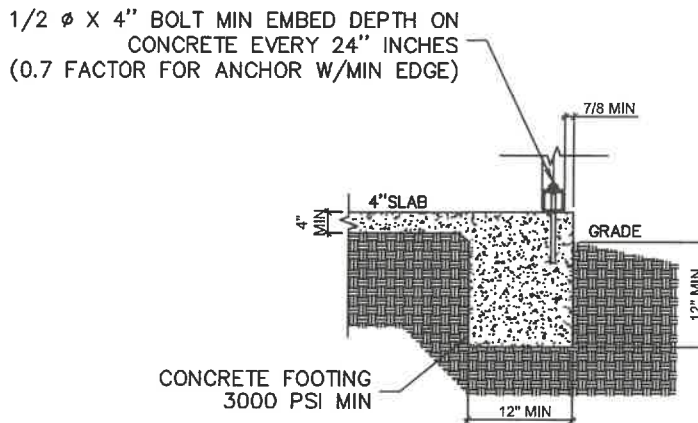
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REV.  
A





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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2			
1			
NO.	DATE	REVISIONS AND RECORD OF ISSUE	CHK.
NAME:	Jaime Phelps		
ADDRESS:	3483 US 401 S Lillington NC		
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MR	PTII	07/31/2023	2201-010434D

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PROJECT: ENCLOSED  
BUILDING

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REV.  
A

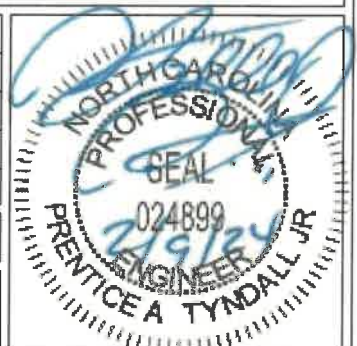




## NTS

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2			
1			
NO.	DATE	REVISIONS AND RECORD OF ISSUE	CHK
NAME:		Jaime Phelps	
ADDRESS:		3483 US 401 S Lillington NC	
<u>DRAWN:</u> MR		<u>CHECKED:</u> PTII	<u>DATE:</u> 07/31/2023
		<u>PROJECT #:</u> 2201-010434D	
<u>PROJECT:</u> ENCLOSED BUILDING		<u>DRAWING NUMBER:</u> 21 of 23	<u>REV.</u> A







## DETAILS

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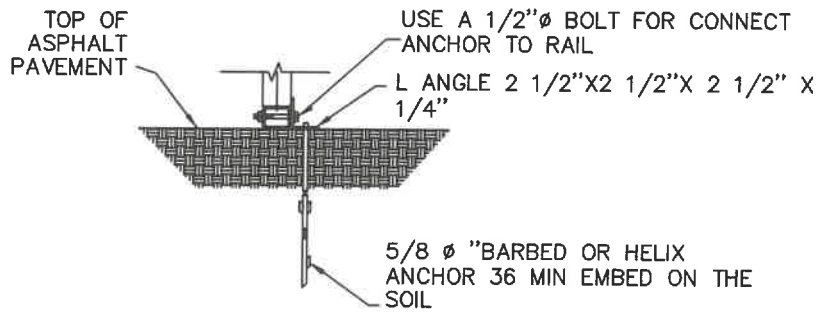
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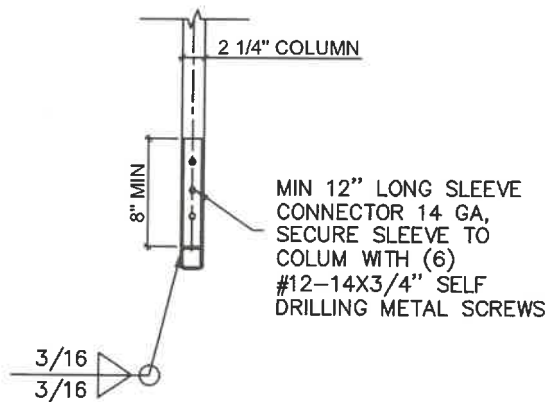
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NO.	DATE	REVISIONS AND RECORD OF ISSUE	CHK
NAME:		Jaime Phelps	
ADDRESS:		3483 US 401 S Lillington NC	
<u>DRAWN:</u> MR		<u>CHECKED:</u> PTII	<u>DATE:</u> 07/31/2023
		<u>PROJECT #:</u> 2201-010434D	
<u>PROJECT:</u> ENCLOSED BUILDING		<u>DRAWING NUMBER:</u> 22 of 23	<u>REV.</u> A



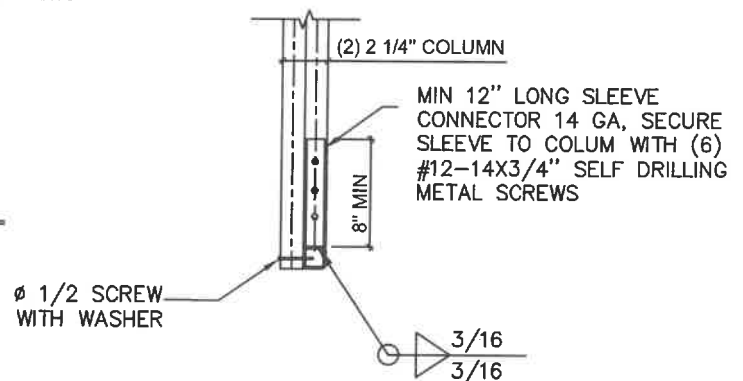




1 BASE RAIL ANCHORAGE WITH BARBED OR HELIX ANCHOR  
NO SCALE



2 BASE RAIL-COLUMN CONNECTION DETAIL  
NO SCALE



3 BASE RAIL-COLUMN CONNECTION DETAIL  
NO SCALE



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2			
1			
NO.	DATE	REVISIONS AND RECORD OF ISSUE	CHK.
NAME:	Jaime Phelps		
ADDRESS:	3483 US 401 S Lillington NC		
DRAWN: MR	CHECKED: PTII	DATE: 07/31/2023	PROJECT #: 2201-010434D

PROJECT: ENCLOSED  
BUILDING

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