

ENCLOSED GABLE END BUILDING MAXIMUM 30'-0" WIDE X 16'-0" EAVE HEIGHT WITH BOX FRAME / (UP TO) 145 MPH WIND ZONE - 30 PSF SHOW LOAD

FOR:

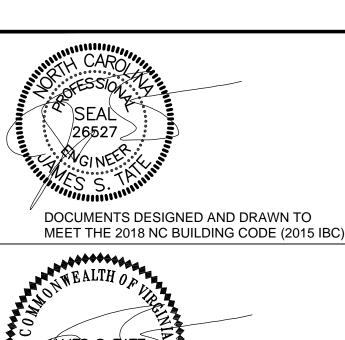
5 STAR METAL BUILDINGS 2425 OLD HIGHWAY 601 / MOUNT AIRY, NC. 27030

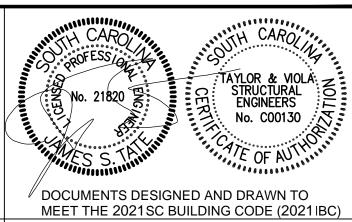
ISSUE DATE: JANUARY 16, 2023











JAMES S. TATE No 37246

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 VA CONSTRUCTION CODE (2018 IBC)



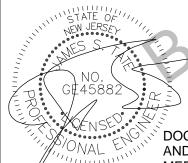
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2012 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2020 BUILDING CODE OF NEW YORK STATE (2018 IBC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 20210 BUILDING **CODENEW JERSEY EDITION** (2021 IBC)



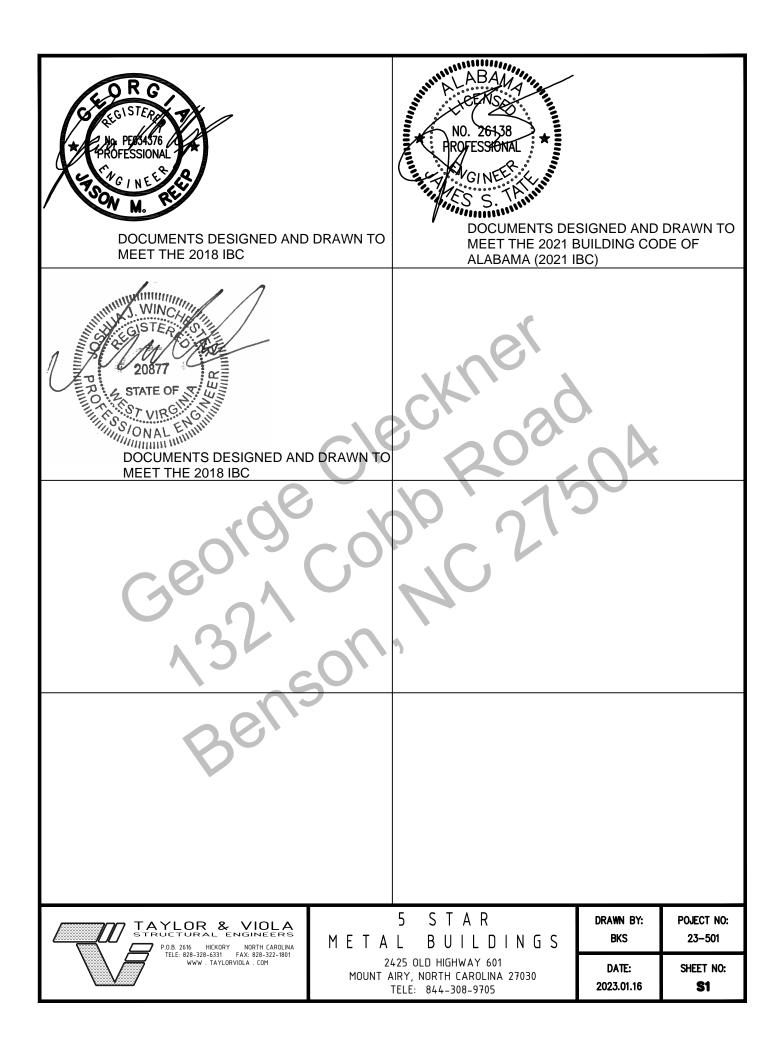
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828-328-6331 FAX: 828-322-1801 WWW . TAYLORVIOLA . COM

STAR METAL BUILDINGS

DRAWN BY:	POJECT NO:
BKS	23–501
DATE:	SHEET NO:
2023.01.16	S1



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2425 OLD HIGHWAY 601 MOUNT AIRY, NORTH CAROLINA 27030 TELE: 844-308-9705

DRAWN	BY:
BKS	

POJECT NO: 23-501

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DESIGN LOADS:						
IMPORTANCE FACTORS	SNOW (1s	1.00 3) 1.00 e) 1.00				
DEAD LOADS	ROOF COLLATERAL	13	PSF PSF			
LIVE LOADS	ROOF	_20	PSF			
GROUND SNOW LOAD:		_30	PSF			
GROUND LOAD:	BASIC WIND SPEED EXPOSURE CATAGORY		mph (ASCE 7-10)	* DRIFT LOAD HAS NOT BEEN CALCULATED		
SEISMIC DESIGN CATAGORY	A		100			
COMPLIANCE WITH SECTION	1616.4?	X NO	☐ YES	A		
PROVIDE THE FOLLOWING SE	ISMIC DESIGN PARAMET	ERS:				
OCCUPANCY CATEGORY	<u>_</u>) _ N.		
SPECTRAL RESPONSE ACCEL	ERATION Ss 20	0.5 %g	S1 <u>8.8</u> %g	ON		
SITE CLASSIFICATION D	FIELD TEST	, De	PRESUMPTIVE H	IISTORICAL DATA		
BASIC STRUCTURAL SYSTEM (CHECK ONE)						
BEARING WALL BUILDING FRAME MOMENT FRAME		INTERME	L MOMENT FRAME DIATE R/C OR SPECI IM	al steel		
ANALYSIS PROCEDURE	SIMPLIFIED X	_ EQUIVA	LANT LATERAL FORC	EMODAL		

GENERAL NOTES:

LATERAL DESIGN CONTROL?

PRESUMPTIVE BEARING CAPACITIES:

SOIL BEARING CAPACITIES:

- MAX FRAME SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.
- MAX. END-WALL COLUMN SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.

EARTHQUAKE

- 3. TUBE MATERIAL SHALL BE $2-1/2" \times 2-1/2" \times 14$ Ga. 50 KSI MIN. UNLESS NOTED OTHERWISE.
- ALL FASTENERS SHALL BE #12 SELF TAPPING AT 9"o.c. UNLESS NOTED OTHERWISE.
- 5. 2,000 PSF ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.

	YLOR & VIOLA UCTURAL ENGINEERS
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5 STAR	Drawn by:	POJECT NO:
METAL BUILDINGS	BKS	23-501
2425 OLD HIGHWAY 601	DATE:	SHEET NO:

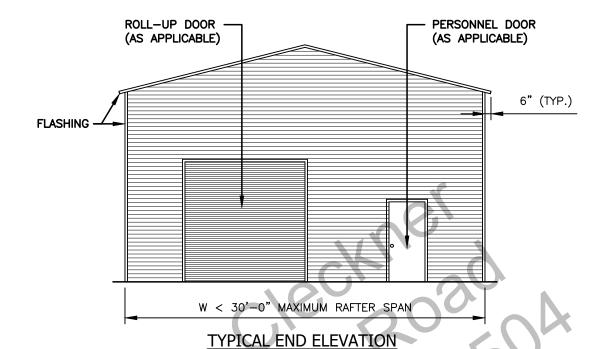
TELE: 844-308-9705

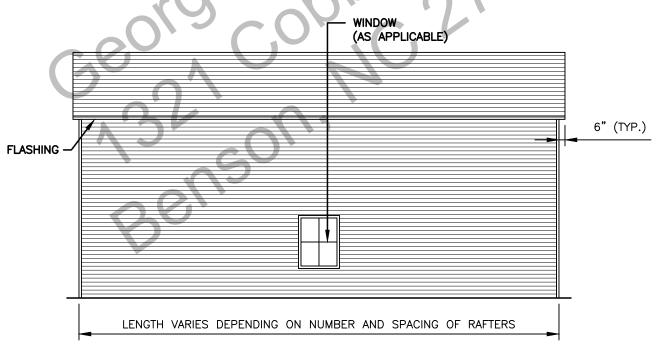
WIND

2,000 **PSF**

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BOX EVE FRAME RAFTER STURCTURE



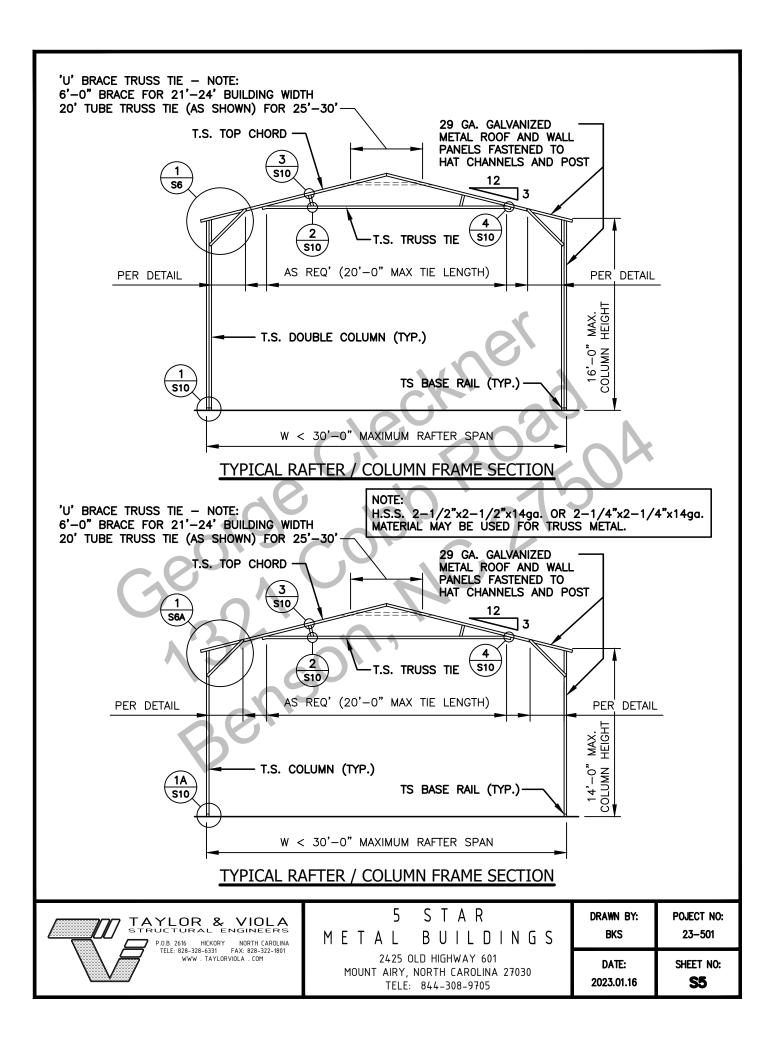


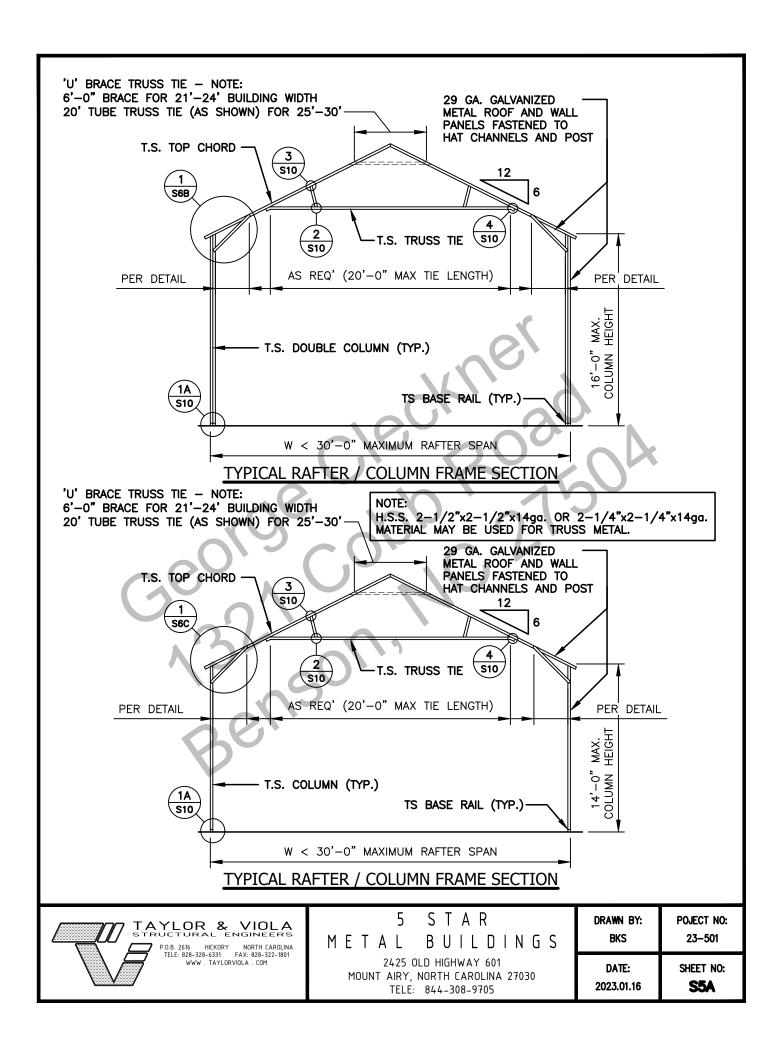
TYPICAL SIDE ELEVATION

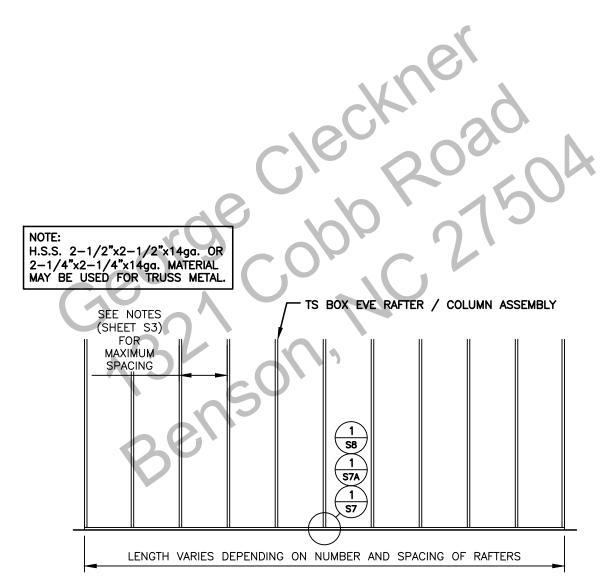


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TYPICAL RAFTER / COLUMN SIDE FRAME SECTION

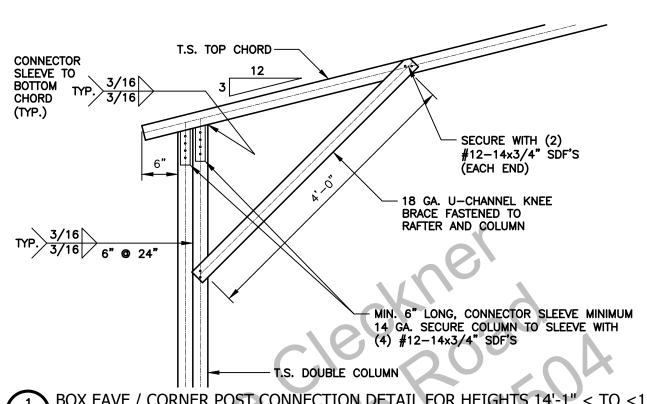


5 STAR METAL BUILDINGS

2425 OLD HIGHWAY 601 MOUNT AIRY, NORTH CAROLINA 27030 TELE: 844-308-9705 DRAWN BY: BKS

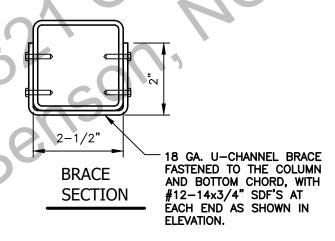
POJECT NO: 23-501

DATE: 2023.01.16 SHEET NO:



BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"

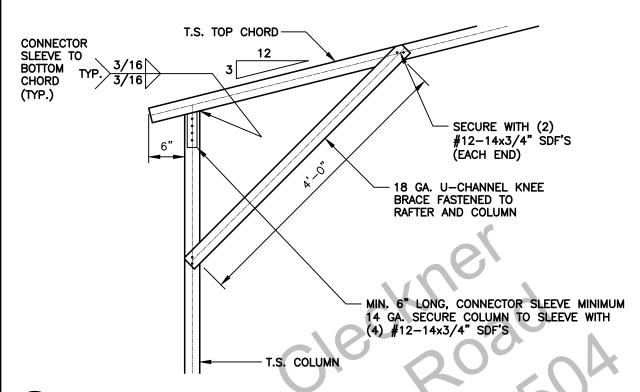
S6 SCALE: 3/4" = 1'-0"





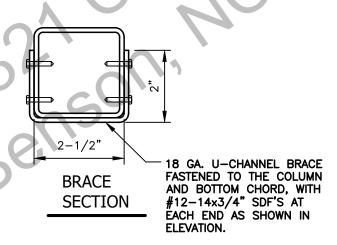
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BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS < 14'-0"

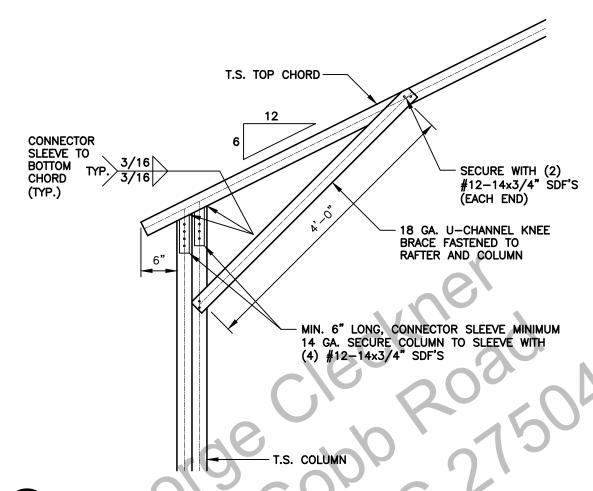
S6A SCALE: 3/4" = 1'-0"





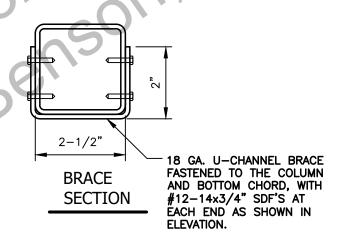
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BKS	23–501
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1 BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"

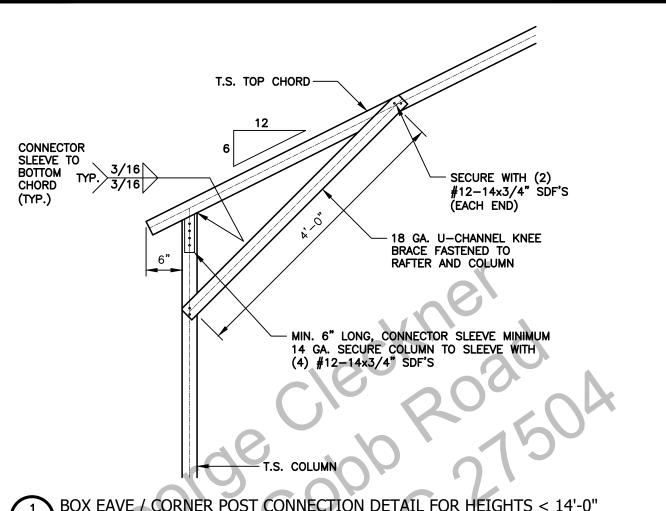
S6C | SCALE: 3/4" = 1'-0"





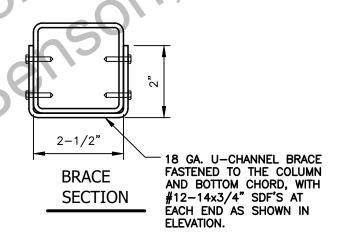
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BKS	23-501
DATE: 2023.01.16	SHEET NO:



BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS < 14'-0"

S6C SCALE: 3/4" = 1'-0"

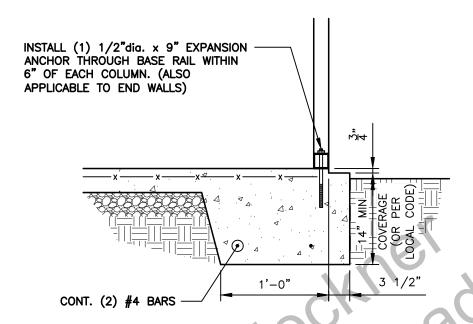




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CONCRETE BASE RAIL ANCHORAGE





GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 PSF

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

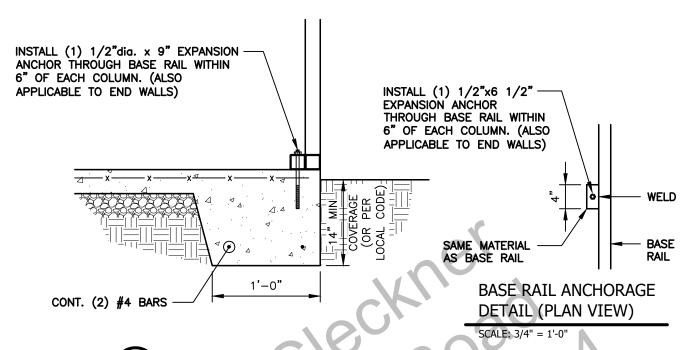
- 1. REINFORCEMENT IS BENT COLD.
- THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX—BAR DIAMETERS.
- 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



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CONCRETE BASE RAIL ANCHORAGE



BASE RAIL ANCHORAGE DETAI

SCALE: 3/4'' = 1'-0'

GENERAL NOTES:

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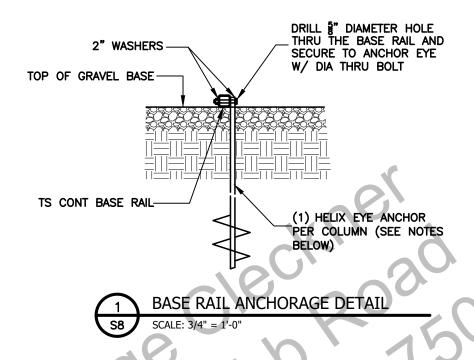
2425 OLD HIGHWAY 601 MOUNT AIRY, NORTH CAROLINA 27030 TELE: 844-308-9705

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DATE:	SHEET NO:
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SOIL NAIL BASE RAIL ANCHORAGE



HELIX EMBEDMENT INFORMATION:

FOR VERY DENSE OR CEMETED SANDS, COARSE GRAVEL, COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT, ONE EACH END BASE RAIL, PROVIDE #4 REBAR AT 5'-0"oc BETWEEN.

FOR CORAL, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT, ONE EACH END BASE RAIL, PROVIDE #4 REBAR AT 5'-0"oc BETWEEN.

FOR MED DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILTS, AND CLAYS, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT, ONE EACH END BASE RAIL, PROVIDE #4 REBAR AT 5'-0"oc BETWEEN.

FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, USE MIN (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT, ONE EACH END BASE RAIL, PROVIDE #4 REBAR AT 5'-0"oc BETWEEN.

FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS AND ALLUVIAL FILL, USE MIN (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT, ONE EACH END BASE RAIL, PROVIDE #4 REBAR AT 5'-0"oc BETWEEN.



	5	STAR
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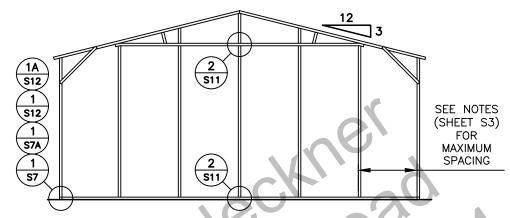
2425 OLD HIGHWAY 601 MOUNT AIRY, NORTH CAROLINA 27030 TELE: 844-308-9705

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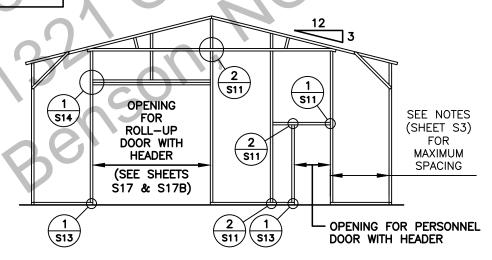
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BOX EVE RAFTER END WALL OPENINGS

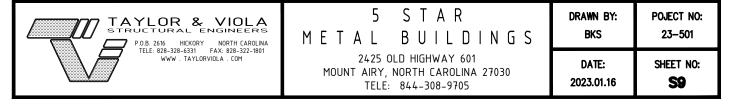


TYPICAL BOX EVE RAFTER / END WALL COLUMN FRAME SECTION

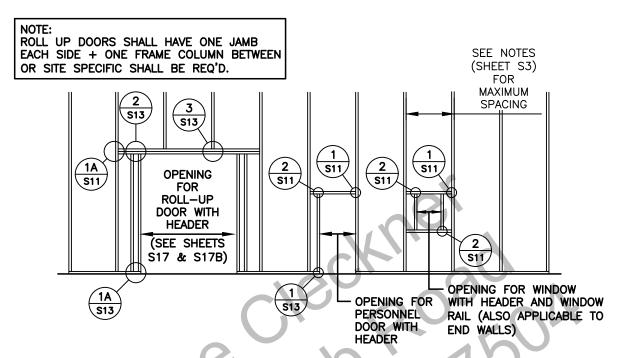
NOTE:
ROLL UP DOORS SHALL
HAVE ONE JAMB EACH
SIDE + ONE FRAME
COLUMN BETWEEN OR SITE
SPECIFIC SHALL BE REQ'D.



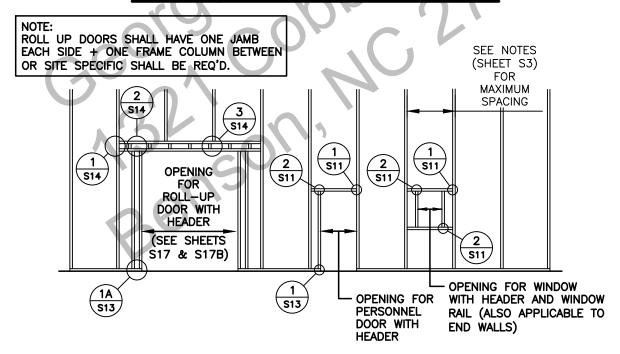
TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION



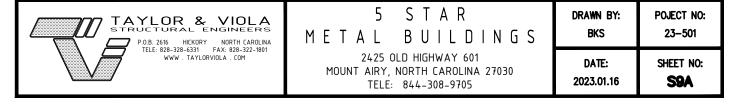
BOX EVE RAFTER END WALL AND SIDE WALL OPENINGS

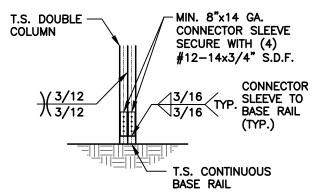


TYPICAL END WALL OPENING FRAMING SECTION



TYPICAL SIDE WALL OPENING FRAMING SECTION





POST / BASE RAIL CONNECTION DETAIL SCALE: 1/2" = 1'-0"

S10

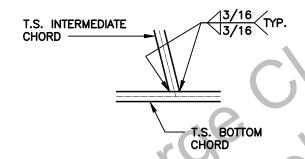
S10

MIN. 8"x14 GA. T.S. COLUMN -CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4" S.D.F. CONNECTOR 3/16 TYP. SLEEVE TO BASE RAIL 3/16 (TYP.) T.S. CONTINUOUS BASE RAIL

POST / BASE RAIL CONNECTION DETAIL

SCALE: 1/2" = 1'-0"

T.S. TOP CHORD



INTERMEDIATE CHORD TO BOTTOM CHORD CONNECTION DETAIL

SCALE: 1/2" = 1'-0"

INTERMEDIATE CHORD TO TOP CHORD CONNECTION DETAIL

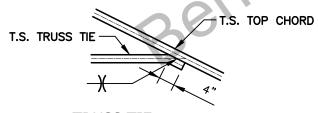
INTERMEDIATE

CHORD

SCALE: 1/2" = 1'-0"

3/16

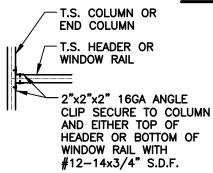
3/16



TRUSS TIE CONNECTION DETAIL SCALE: 1/2" = 1'-0" S10



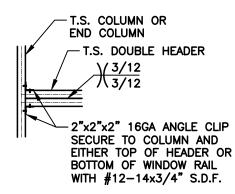
5 STAR	Drawn by:	POJECT NO:
METAL BUILDINGS	BKS	23-501
2425 OLD HIGHWAY 601 MOUNT AIRY, NORTH CAROLINA 27030 TELE: 844-308-9705	DATE: 2023.01.16	SHEET NO:



COLUMN OR WINDOW RAIL / WALL GIRT TO POST CONNECTION DETAIL

1 S11

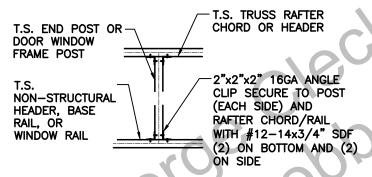
SCALE: 1/2" = 1'-0"



COLUMN / DOUBLE HEADER CONNECTION DETAIL

1A S11

SCALE: 1/2" = 1'-0"



DOOR OR WINDOW HEADER RAIL TO POST CONNECTION

DETAIL

SCALE: 1/2" = 1'-0"

TAYLOR & VIOLA
STRUCTURAL ENGINEERS

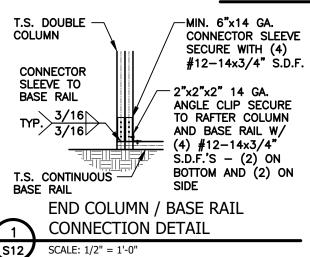
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TELE: 828-328-6331 FAX: 828-322-1801
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5 STAR METAL BUILDINGS

2425 OLD HIGHWAY 601 MOUNT AIRY, NORTH CAROLINA 27030 TELE: 844-308-9705 DRAWN BY: POJECT NO: 23-501

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S11



T.S. DOUBLE -MIN. 6"x14 GA. COLUMN CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4" S.D.F. **CONNECTOR** SLEEVE TO 2"x2"x2" 14 GA. ANGLE CLIP SECURE TO RAFTER COLUMN BASE RAIL AND BASE RAIL W/ (4) #12-14x3/4" S.D.F.'S - (2) ON BOTTOM AND (2) ON T.S. CONTINUOUS SIDE BASE RAIL

END COLUMN / BASE RAIL CONNECTION DETAIL

CONNECTION DETAIL

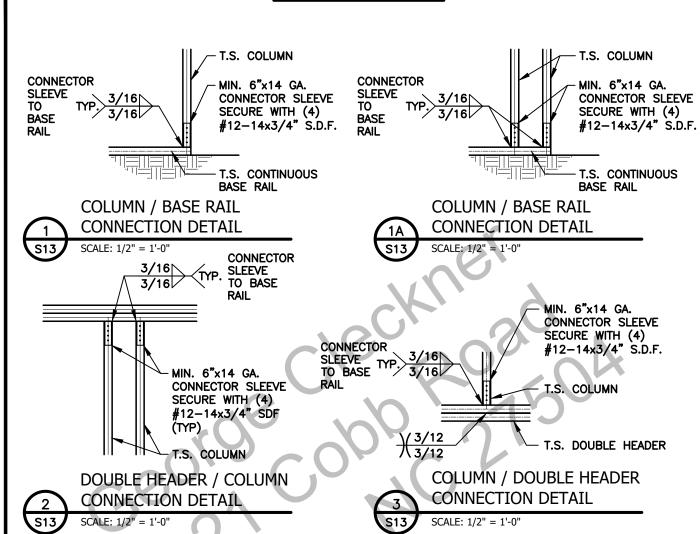
S12 SCALE: 1/2" = 1'-0"





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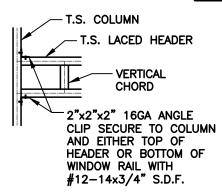
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COLUMN / LACED HEADER CONNECTION DETAIL

SCALE: 1/2" = 1'-0"

S14

T.S. LACED HEADER

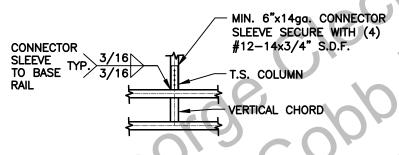
VERTICAL CHORD

MIN. 6"x14ga. CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4" S.D.F.

T.S. COLUMN

LACED HEADER / COLUMN CONNECTION DETAIL

SCALE: 1/2" = 1'-0"



COLUMN / LACED HEADER CONNECTION DETAIL

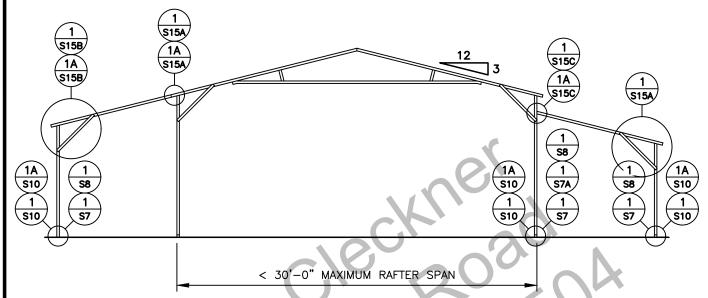
SCALE: 1/2" = 1'-0"



5 STAR METAL BUILDINGS

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2023.01.16	S14

BOX EVE RAFTER LEAN-TO OPTIONS



TYPICAL LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

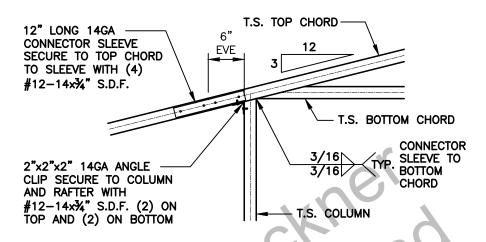
MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION AND LEAN-TO OPTION IS 12'-0" MAXIMUM WIDTH OF DOUBLE MEMBER ROOF EXTENSION AND LEAN-TO IS 15'-0" 12'-0" MAX. LEAN-TO HEIGHT WITH SINGLE COLUMN



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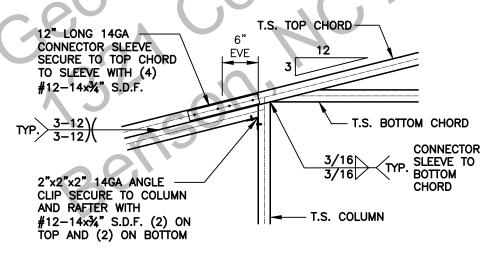
LEAN-TO CONNECTION DETAILS



ROOF EXTENSION RAFTER / CORNER POST DETAIL FOR WIDTHS < 12'-0"

(1 (S15A)

SCALE: 3/4" = 1'-0"



ROOF EXTENSION RAFTER / CORNER POST DETAIL FOR WIDTHS < 15'-0"



SCALE: 3/4" = 1'-0"

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LEAN-TO CONNECTION DETAILS CONNECTOR 3/16 SLEEVE TO T.S. ROOF RAFTER **BOTTOM** LEAN-TO ADDITION **CHORD** SECURE WITH (2) — #12-14x3/4" SDF'S MINIMUM 6"x14 GA. (EACH END) CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4" S.D.F. T.S. COLUMN 18 GA. U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN BOX EAVE RAFTER COLUMN CONNECTION

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR LEAN-TO RAFTER SPAN <12'-0"

SCALE: 3/4" = 1'-0" **CONNECTOR** 3/16 SLEEVE TO T.S. ROOF RAFTER 3/16 воттом LEAN-TO ADDITION **CHORD** SECURE WITH (2) — #12-14x3/4" SDF'S (EACH END) MINIMUM 6"x14 GA. CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4" S.D.F. T.S. COLUMN 18 GA. U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR LEAN-TO RAFTER SPAN <15'-0"

1A S15B

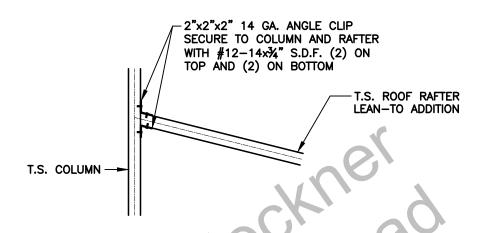
SCALE: 3/4" = 1'-0"



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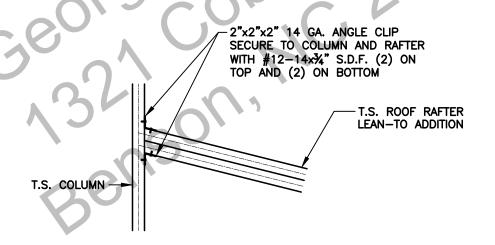
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DATE:	SHEET NO:
2023.01.16	S15B

LEAN-TO CONNECTION DETAILS



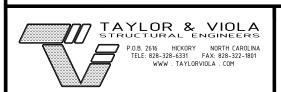
LEAN-TO RAFTER TO RAFTER POST
CONNECTION DETAIL FOR WIDTHS < 12'-0'

S15C SCALE: 3/4" = 1'-0"



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS < 15'-0"

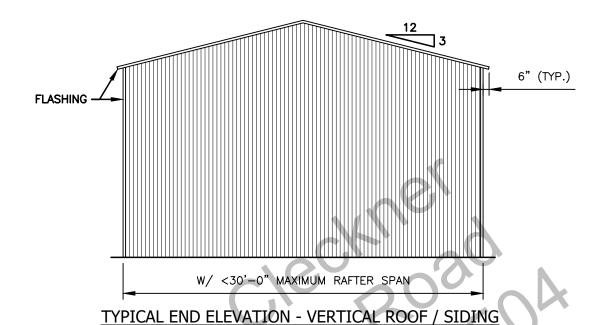
SCALE: 3/4" = 1'-0"

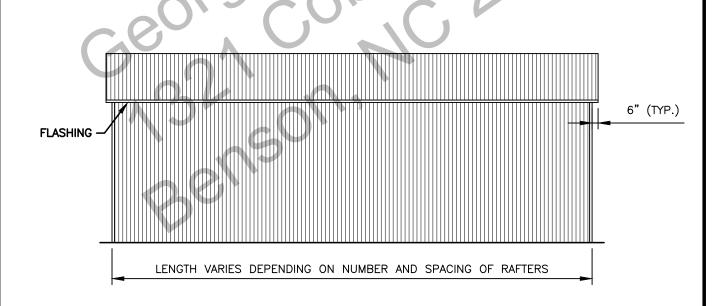


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VERTICAL ROOF / SIDING OPTION





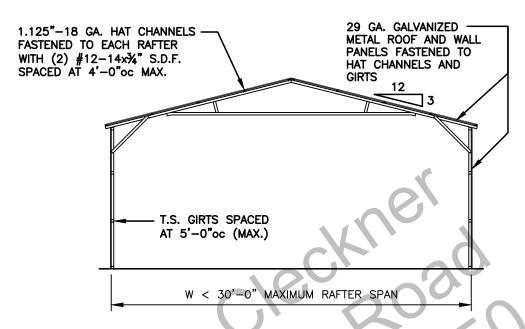
TYPICAL SIDE ELEVATION - VERTICAL ROOF / SIDING



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2023.01.16	S16

VERTICAL ROOF / SIDING OPTION



TYPICAL SECTION VERTICAL ROOF / SIDING OPTION

NOTE:

H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x14ga. MATERIAL MAY BE USED FOR TRUSS METAL.



	5	STAR	
MET	ΑL	BUILDINGS	

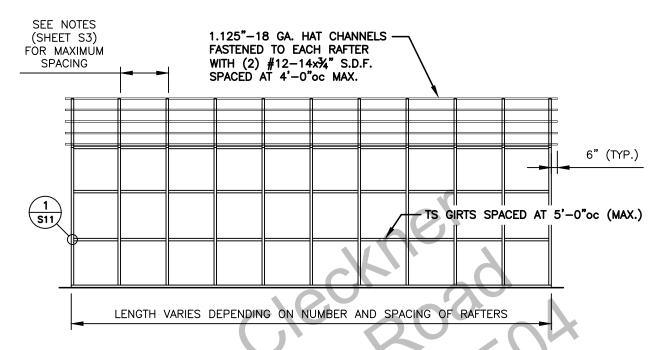
2425 OLD HIGHWAY 601 MOUNT AIRY, NORTH CAROLINA 27030 TELE: 844-308-9705

DRAWN	BY:
BKS	

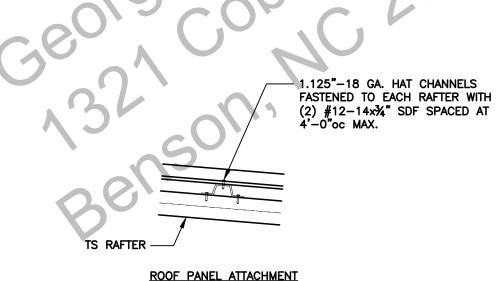
POJECT NO: 23-501

DATE: 2023.01.16 SHEET NO: S16A

VERTICAL ROOF / SIDING OPTION



TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION



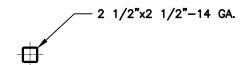
ROOF PANEL ATTACHMENT NTS



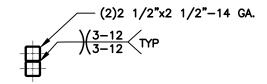
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SIDE WALL HEADER OPTIONS

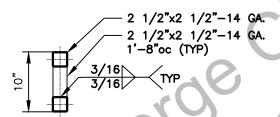


HEADER DETAIL FOR DOOR OPENINGS < 4'-0" NTS

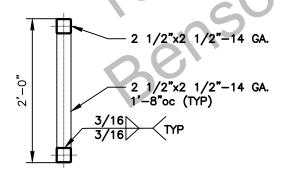


HEADER DETAIL FOR DOOR

OPENINGS 4'-1" < TO < 12'-0"
NTS



LACED HEADER DETAIL FOR DOOR OPENINGS 12'-1" < TO < 15'-0"



LACED HEADER DETAIL FOR DOOR OPENINGS 15'-1" < TO < 20'-0"

GENERAL NOTE:

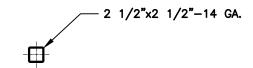
PROVIDE DOUBLE WYTHE HEADER ON DOUBLE COLUMNS AND LACED COLUMNS

//// TA	YLOR & VIOLA
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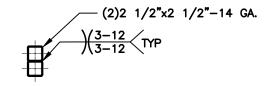
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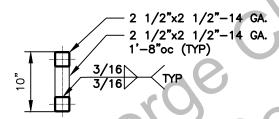
END WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR OPENINGS < 7'-0" NTS



HEADER DETAIL FOR DOOR OPENINGS 7'-1" < TO < 16'-0"



LACED HEADER DETAIL FOR DOOR OPENINGS 16'-1" < TO < 20'-0

GENERAL NOTE:

PROVIDE DOUBLE WYTHE HEADER ON DOUBLE COLUMNS AND LACED **COLUMNS**

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	5	STAR
META	L	BUILDINGS

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DATE:	SHEET NO:
2023.01.16	S17A