

APPLICABLE CODES AND STANDARDS

- 2023 FLORIDA BUILDING CODE (8TH EDITION)
- 2021 INTERNATIONAL BUILDING CODE
- ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
- AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
- ACI 318-14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- TMS 402-16: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
- AWS D1.1: STRUCTURAL WELDING

DESIGN LOADS

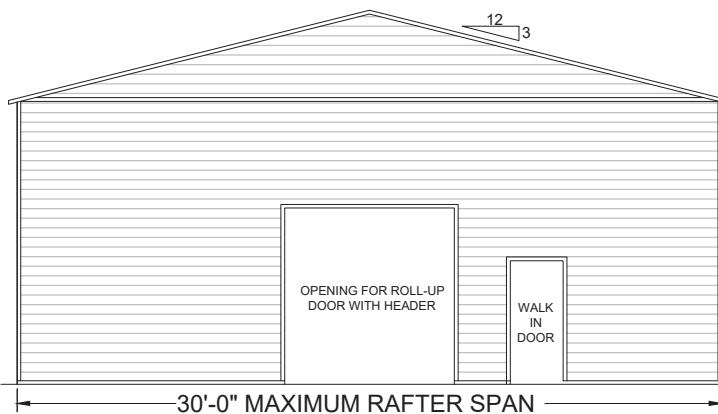
- DEAD LOAD = 15 PSF
- LIVE LOAD = 20 PSF
- WIND LOAD (SEE TABLE 1)

ENCLOSED METAL BUILDING DESIGN

30FT WIDE X 50FT LONG X 10FT EAVE HT.

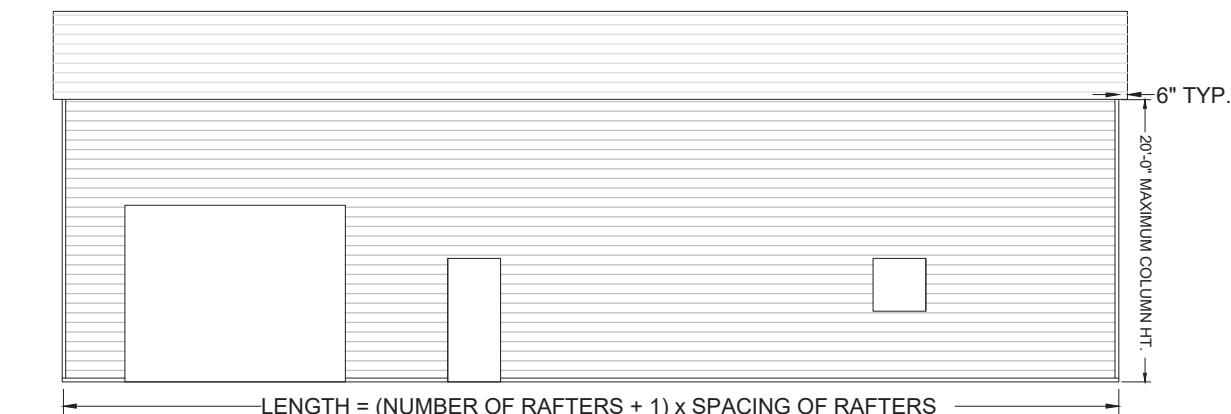
INSTALLATION NOTES AND SPECIFICATIONS

- ROOF PITCH SHALL NOT BE GREATER THAN 12H:4V
- END WALL COLUMNS (POST) AND SIDE WALL COLUMNS ARE THE SAME U.N.O.
- 29 GA METAL PANELS SHALL BE FASTENED DIRECTLY TO 2.5" x 2.5" x 14 GA TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS.
- 29 GA METAL PANELS SHALL BE FASTENED DIRECTLY TO 18 GA HAT CHANNELS U.N.O.
- 18 GA HAT CHANNELS SHALL BE SPACED 48" O.C. UNLESS DESIGN PRESSURES FROM TABLE 3 EXCEED THE MAX ALLOWABLE PRESSURES IN TABLE 2. THEN THE SPACING SHALL BE 24" O.C. IN THE ZONES THAT EXCEED THE MAX PRESSURES.
- FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS SHALL BE:
 - INTERIOR = 9"
 - END = 6"
- FASTENERS SHALL BE #12-14 x 3/4" SELF-DRILLING SCREWS (SDS), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. APPLICABLE ONLY FOR:
 - MEAN ROOF HEIGHT OF 20'-0" OR LESS
 - ROOF SLOPES OF 18° (4:12 PITCH) OR LESS.
 - SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- ANCHORS SHALL BE INSTALLED THROUGH THE BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES AND ENDS.
- STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR WITH WELDED NUT x 30" LONG AND MAY BE USED IN SUITABLE SOILS.
- OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. SOIL NAILS MAY BE USED FOR WIND SPEEDS LESS THAN OR EQUAL TO 145 MPH.



TYPICAL ELEVATION - BOX EAVE

SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS

TABLE 1
BOW/RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS

RISK CATEGORY	WIND EXPOSURE CATEGORY	ULT WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM RAFTER/BOW AND END POST SPACING (FEET)	FASTENER SPACING O.C. FOR RAFTERS/PURLINS, & POSTS (INCHES)	
					INTERIOR BOWS/RAFTERS	END BOWS/RAFTERS
I, II, III, or IV	B, C, or D	115 - 150	89 - 116	5.0	6	6
		151 - 180	117 - 139	4.0	6	6

NOTES:
 1. SPECIFICATIONS APPLICABLE TO 26 OR 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 12 OR 14 GAUGE STEEL TUBE BOW FRAMES.
 2. FASTENERS CONSIST OF 1/4"-14X1" SELF-DRILLING SCREWS WITH CONTROL SEAL WASHER.
 3. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14°(3:12 PITCH). SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
 4. GROUND ANCHOR REQUIREMENTS ARE 1 @ EACH CORNER AND ONE EVERY OTHER INTERIOR BOW/RAFTER POST LOCATION, AT MAXIMUM OF 10' O.C. AND BOTH SIDES OF OPENINGS WHERE BASE RAIL IS ABSENT.
 5. GROUND ANCHORS ARE NOT REQUIRED WITH CONCRETE SLAB CONSTRUCTION.

DRAWING INDEX

PAGE NO.

DESCRIPTION

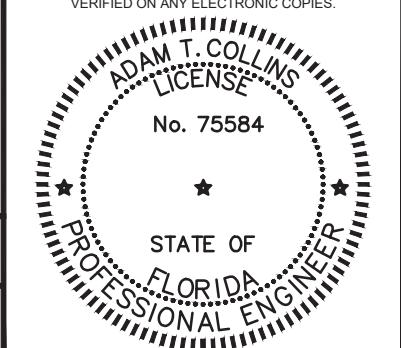
S-1	NOTES AND SPECIFICATIONS
S-2	BOX-BOW EAVE FRAME RAFTER ENCLOSED BUILDING
S-3	CONNECTION DETAILS (1 OF 4)
S-4	BASE RAIL AND ANCHORAGE DETAILS
S-5	BOX EAVE RAFTER END WALL, SIDE WALL AND OPENING FRAMING
S-6	CONNECTION DETAILS (2 OF 4)
S-7	CONNECTION DETAILS (3 OF 4)
S-8	BOX EAVE RAFTER LEAN-TO OPTIONS
S-9	FREESTANDING BOX EAVE RAFTER LEAN-TO OPTIONS
S-10	CONNECTION DETAILS (4 OF 4)
S-11	BOX EAVE RAFTER VERTICAL ROOF-SIDING OPTION
S-12	OPTIONAL CONCRETE STRIP FOOTING
S-13	OPTIONAL HELICAL ANCHORING DETAIL

NO.	REVISIONS	DATE	DATE DRAWN	SUBMITTALS	DATE
			SM		
			DMC		
			ATC		
			JOB No.	22047	

TABLE 3
COMPONENTS AND CLADDING DESIGN PRESSURES MEAN ROOF HT 25 FT, EXPOSURE C (PSF)

Zone	120		130		140		150		160		170		180	
	POS	NEG												
1	9.7	-20.7	11.5	-24.3	13.2	-28.2	15.3	-32.4	17.4	-36.9	19.6	-41.6	22.0	-46.6
2	9.7	-27.9	11.5	-32.8	13.2	-38.1	15.3	-43.7	17.4	-49.7	19.6	-56.2	22.0	-62.9
3	11.1	-44.8	13.0	-52.7	15.0	-61.0	17.1	-70.1	19.6	-79.8	22.1	-90.0	24.7	-100.8
4	17.8	-19.6	20.9	-23.1	24.3	-26.7	27.9	-30.6	31.7	-34.8	35.8	-39.4	40.1	-44.1
5	18.8	-23.8	22.0	-27.8	25.5	-32.3	29.3	-37.0	33.3	-42.1	37.7	-47.5	42.3	-53.3

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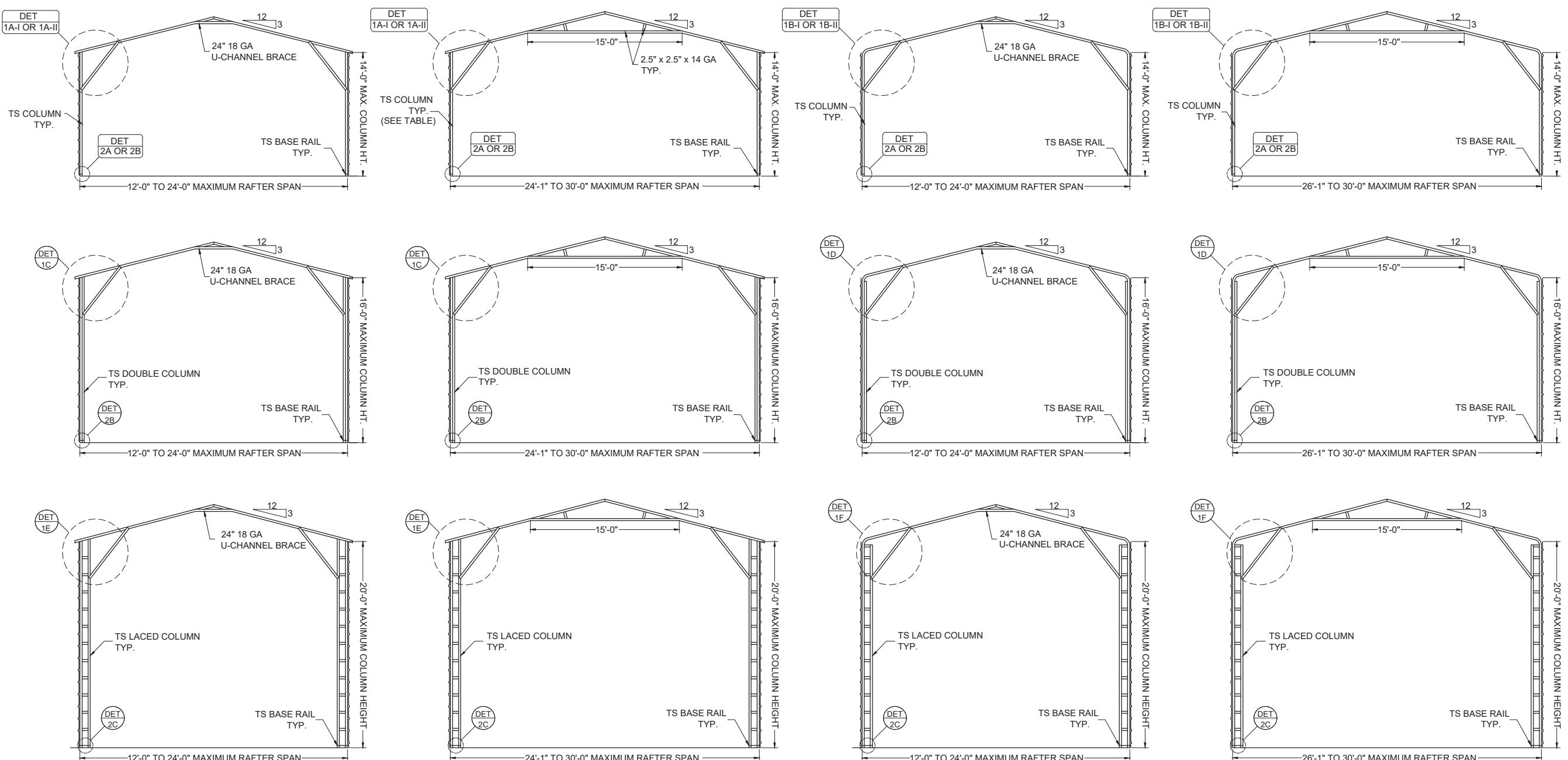
PREPARED BY
ADAM COLLINS
 ENGINEERING INC.
 CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM

CLIENT
 ELITE METAL
 MANUFACTURING
 10121 88TH TRACE

SHEET TITLE
 NOTES AND
 SPECIFICATIONS

PROJECT
 Curtis Mixon
 175 SW Platinum Glen
 Lake City, FL 32024

SHEET NO.
 S-1
 SCALE
 AS-SHOWN



BOX EAVE FRAME

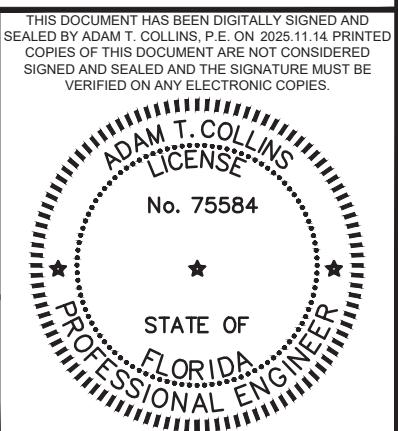
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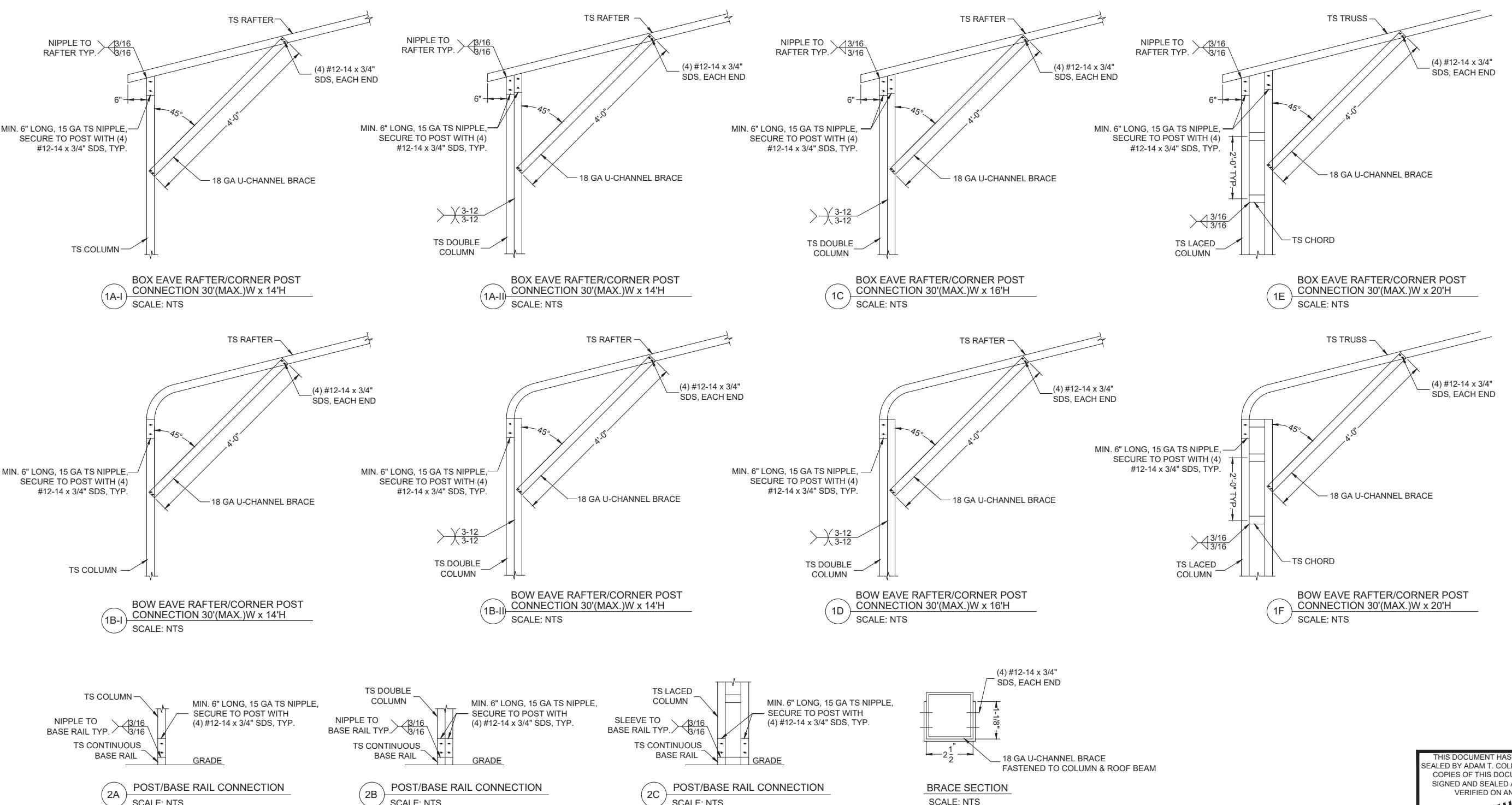
BOW EAVE FRAME

SCALE: NTS

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			2025.11.14			ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX-BOW EAVE FRAME RAFTER ENCLOSED BUILDING	Curtis Mixon 175 SW Platinum Glen Lake City, FL 32024	S-2
			SM			CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM				AS-SHOWN
			DMC							
			ATC							
			JOB No.							
			22047							

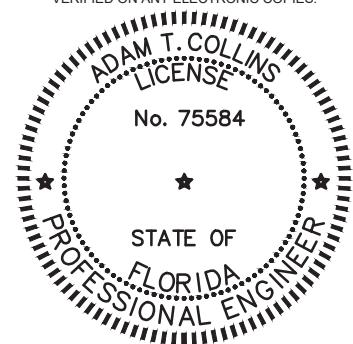
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									CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM						175 SW Platinum Glen				
															Lake City, FL 32024				

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GENERAL NOTES

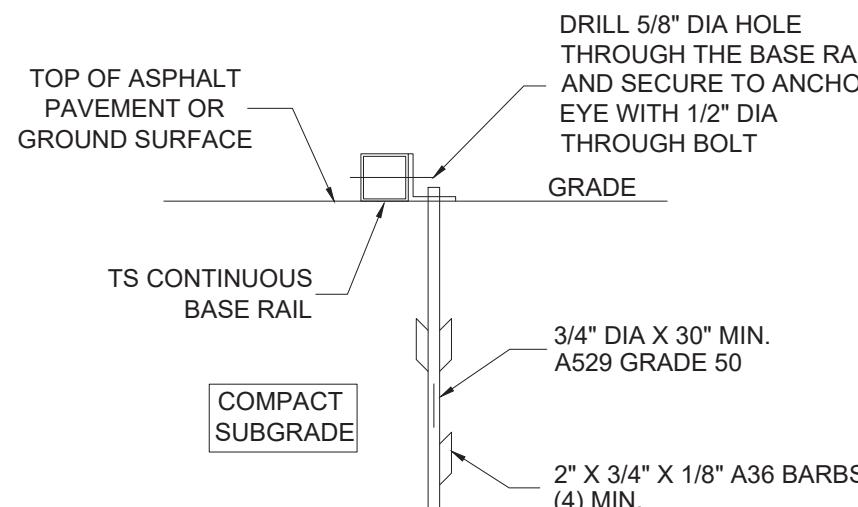
MINIMUM SOIL BEARING CAPACITY: 1500 PSF.
CONCRETE STRENGTH: 3000 PSI @ 28 DAYS

REINFORCING STEEL

1. REBAR SHALL BE ASTM A615 GRADE 60
2. SLAB REINFORCEMENT = WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
3. CONCRETE COVER SHALL BE
 - 3.1. 3" WHERE EXPOSED TO SOIL OR WATER.
 - 3.2. 2" EVERYWHERE ELSE.
4. REBAR SHALL BE BENT WITHOUT HEATING.
5. MINIMUM BEND = 6 X BAR DIAMETER
6. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

HELIX ANCHOR NOTES

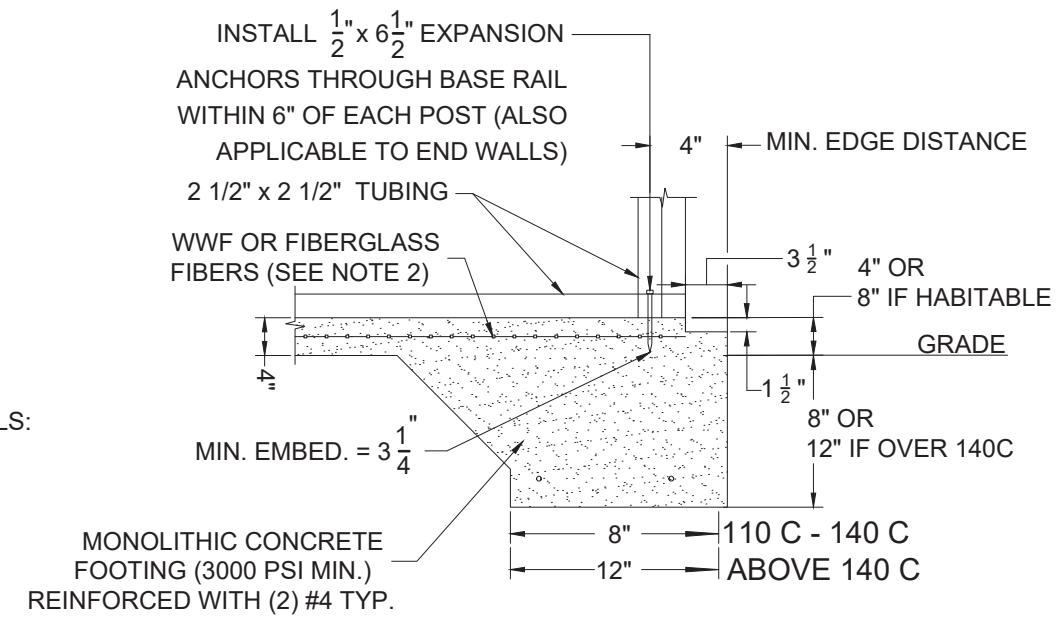
1. USE MINIMUM (2) 4" HELICES WITH 30" EMBEDMENT FOR THE FOLLOWING SOILS:
 - 1.1. VERY DENSE AND/OR CEMENTED SANDS
 - 1.2. COARSE GRAVEL AND COBBLES
 - 1.3. CALICHE
 - 1.4. PRELOADED SILTS AND CLAYS
 - 1.5. CORALS
 - 1.6. MEDIUM DENSE COARSE SANDS
 - 1.7. SANDY GRAVEL
 - 1.8. VERY STIFF SILTS AND CLAYS
2. USE MINIMUM (2) 6" HELICES WITH MINIMUM 48" EMBEDMENT FOR
 - 2.1. LOOSE TO MEDIUM DENSE SANDS
 - 2.2. FIRM TO STIFF CLAYS AND SILTS
 - 2.3. ALLUVIAL FILL
3. USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.
 - 3.1. FOR VERY LOOSE TO MEDIUM DENSE SANDS
 - 3.2. FIRM TO STIFFER CLAYS AND SILTS
 - 3.3. ALLUVIAL FILL,



ASPHALT BASE ANCHORAGE
(HP 9 BARBED DRIVE ANCHOR)

SCALE: NTS

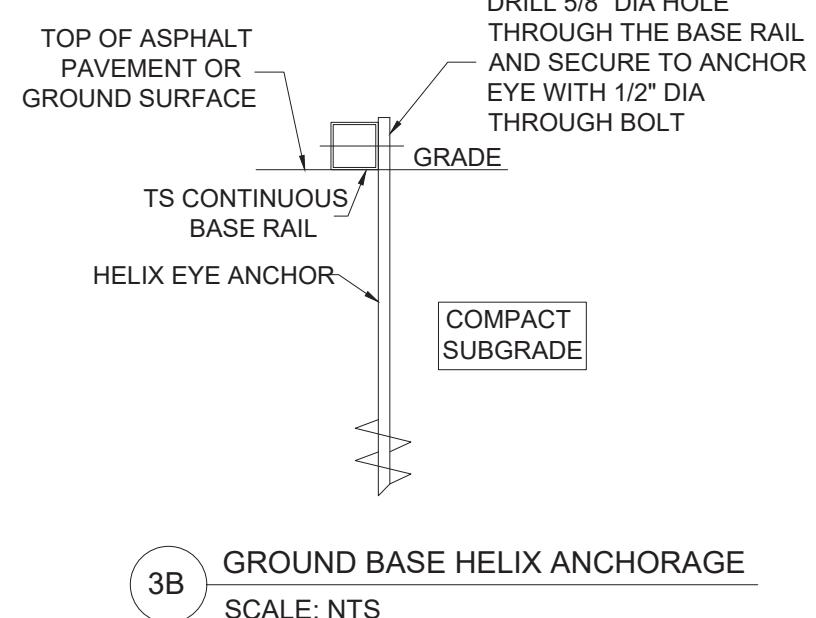
MONOLITHIC FOOTER SIZE	
110 C - 140 C	8" x 12" - (2) #4
ABOVE 140 C	12" x 16" - (2) #4



CONCRETE MONOLITHIC SLAB
BASE RAIL ANCHORAGE

3A

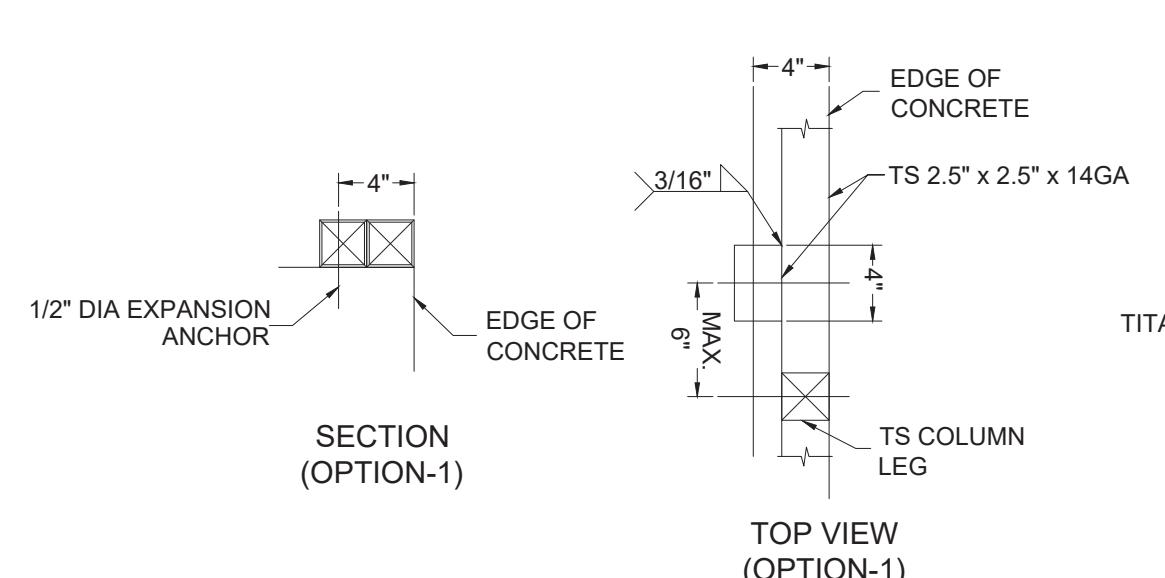
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3B

GROUND BASE HELIX ANCHORAGE

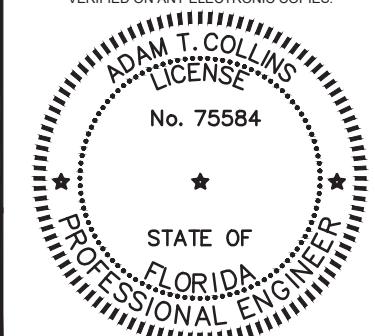
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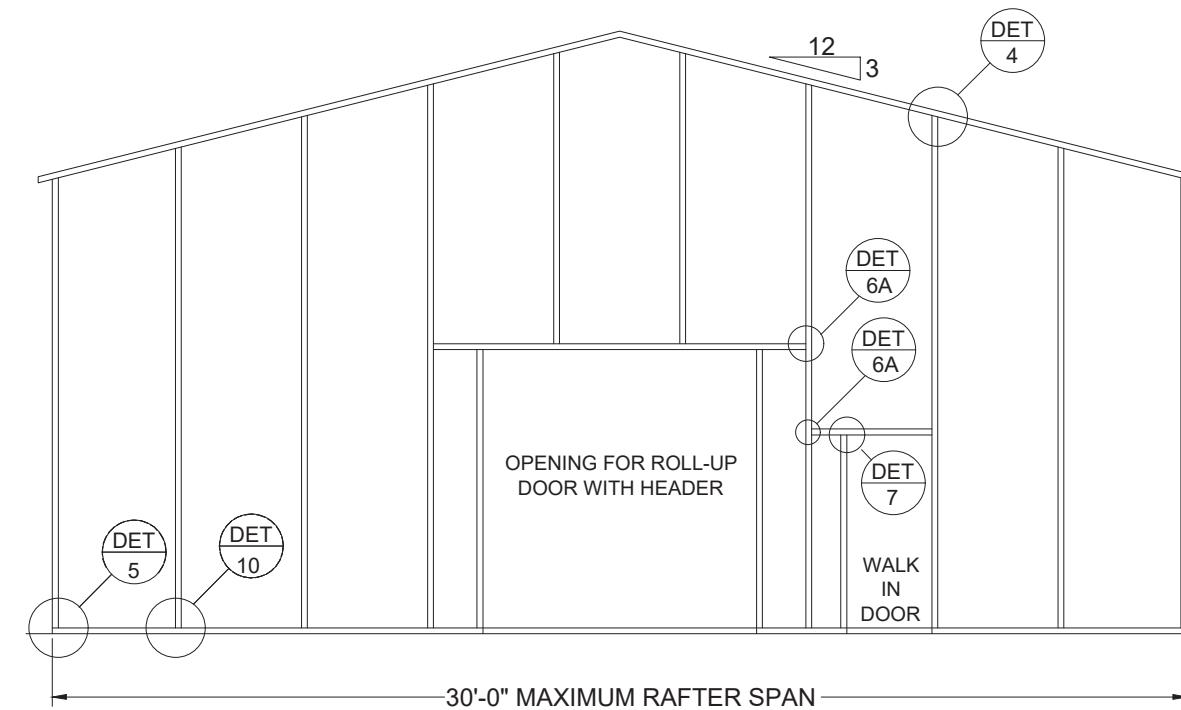
TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

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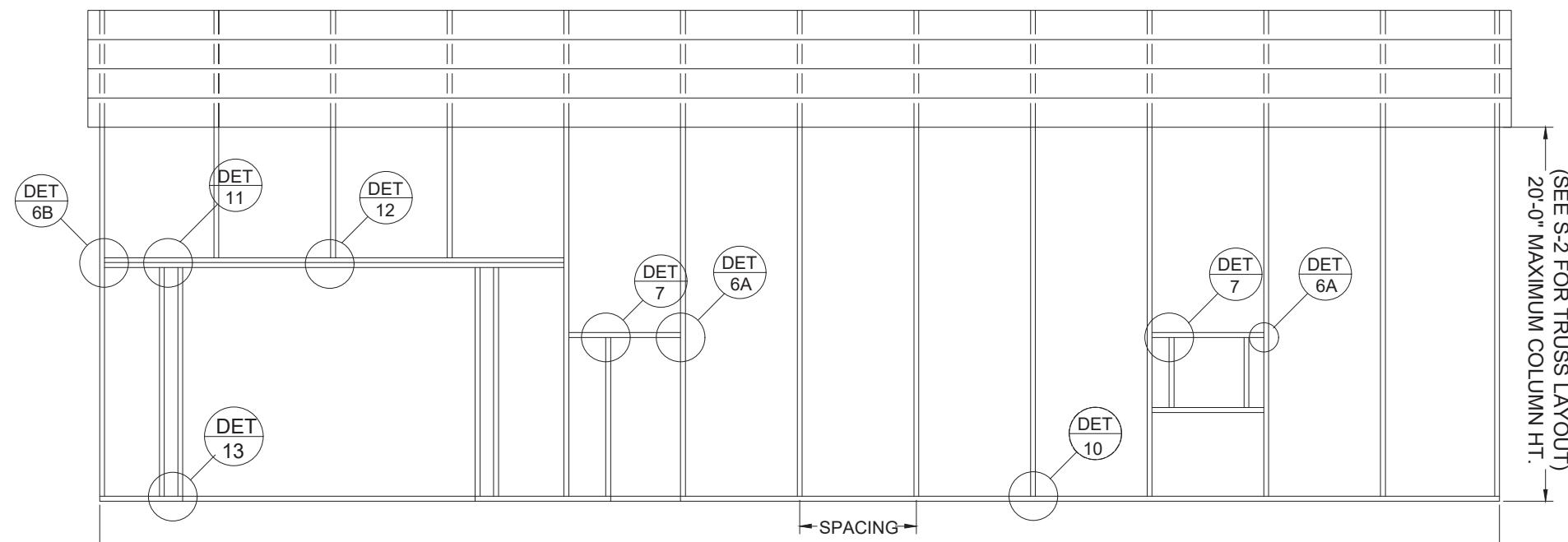
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			2025.11.14			ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	BASE RAIL AND ANCHORAGE DETAILS	Curtis Mixon 175 SW Platinum Glen Lake City, FL 32024	S-4
			SM							SCALE
			DMC							AS-SHOWN
			ATC							
			JOB No.							
			22047							



SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH
 SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH

TYPICAL BOX EAVE Rafter END WALL FRAMING SECTION

SCALE: NTS



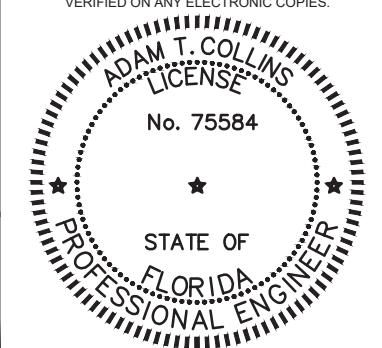
LENGTH = (NUMBER OF RAFTERS + 1) x SPACING OF RAFTERS
 SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH
 SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH

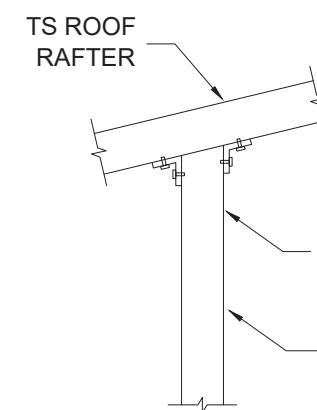
TYPICAL BOX EAVE Rafter SIDE FRAMING SECTION

SCALE: NTS

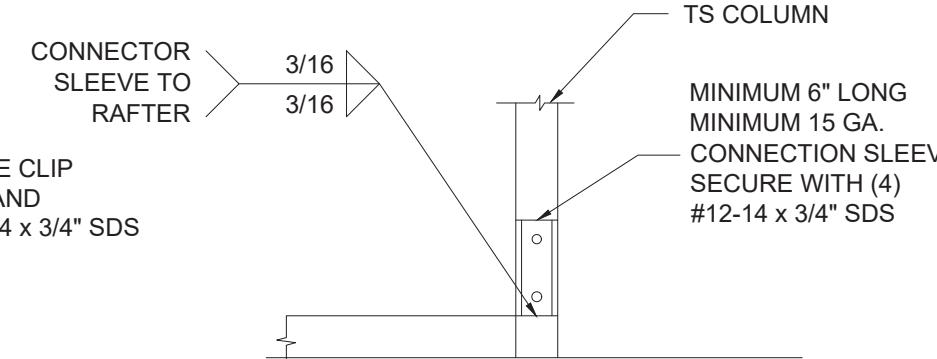
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				DESIGNED	DMC						SCALE
				CHECKED	ATC						AS-SHOWN
				JOB No.	22047		CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM				

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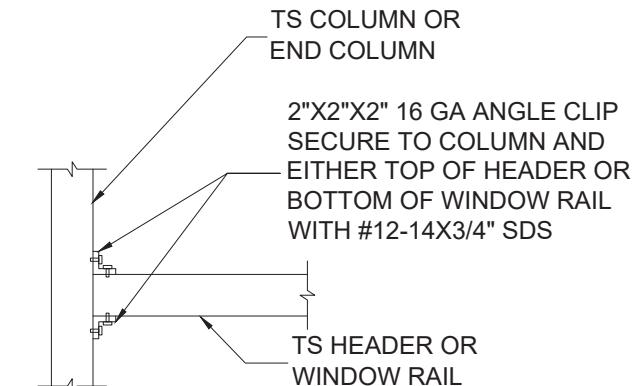




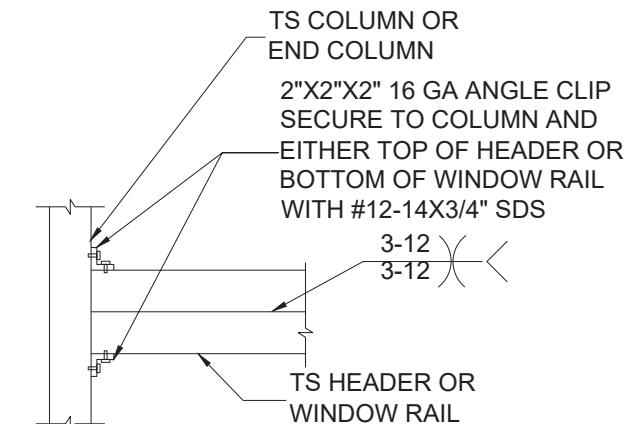
4 POST/RAFTER CONNECTION
SCALE: NTS



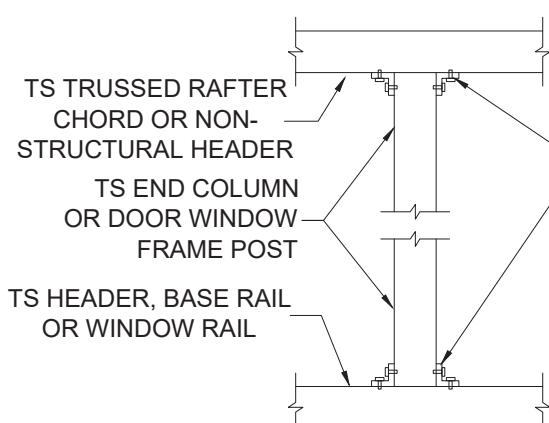
5 POST/BASE RAIL CONNECTION
SCALE: NTS



6A HEADER TO
POST CONNECTION
SCALE: NTS



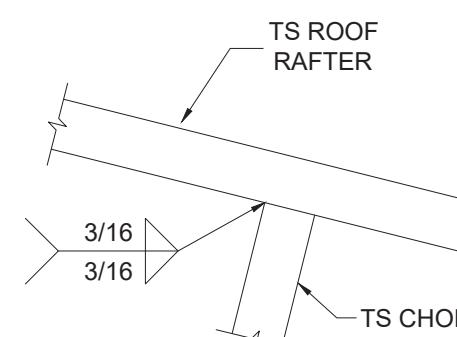
6B DOUBLE HEADER TO
POST CONNECTION
SCALE: NTS



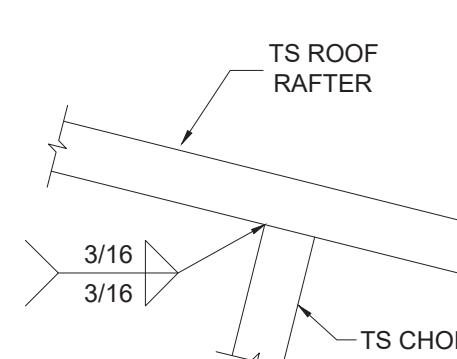
7 POST TO HEADER, BASE RAIL
OR WINDOW RAIL CONNECTION
SCALE: NTS

2"x2"x2" 16GA ANGLE CLIP SECURE TO
COLUMN (EACH SIDE) AND RAFTER
CHORD/RAIL WITH (4) #12-14X3/4" SDS

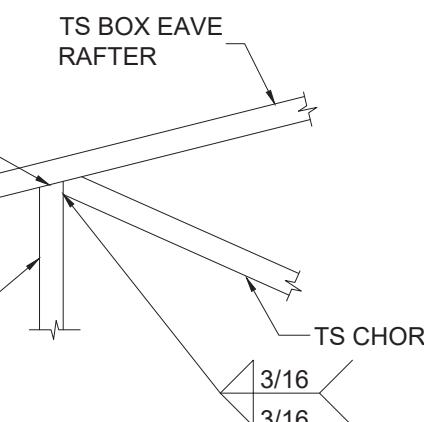
NOTE AT ROLL-UP DOOR OPENINGS,
COLUMN SHOULD BE FLUSH WITH RAIL
END CLIP SIDE OPPOSITE THE OPENING



8 Rafter to Chord Connection
SCALE: NTS

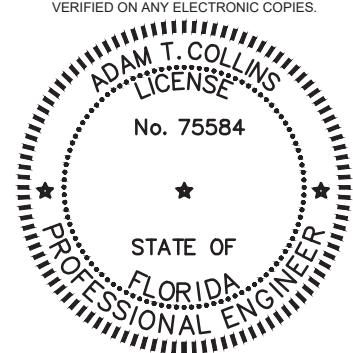


9 TRUSS POST AND CHORD
TO RAFTER CONNECTION
SCALE: NTS

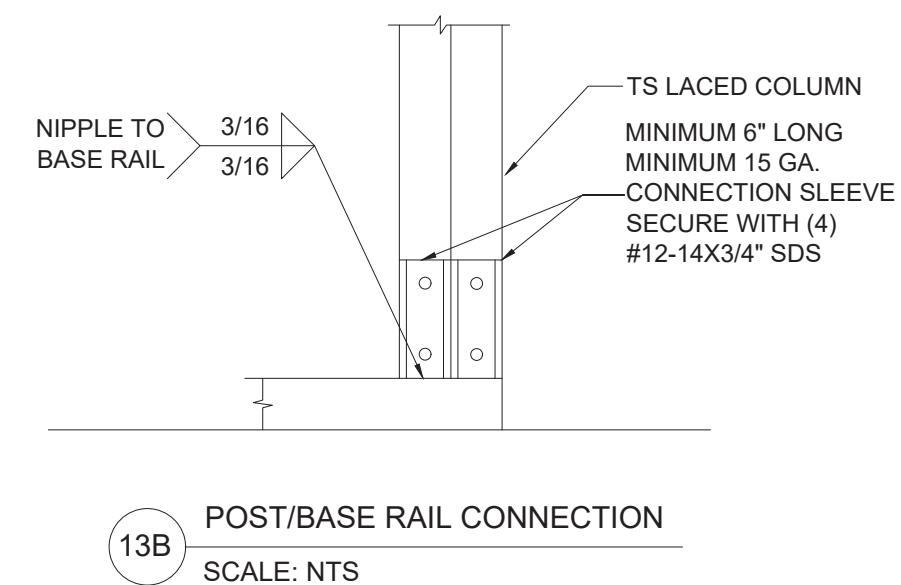
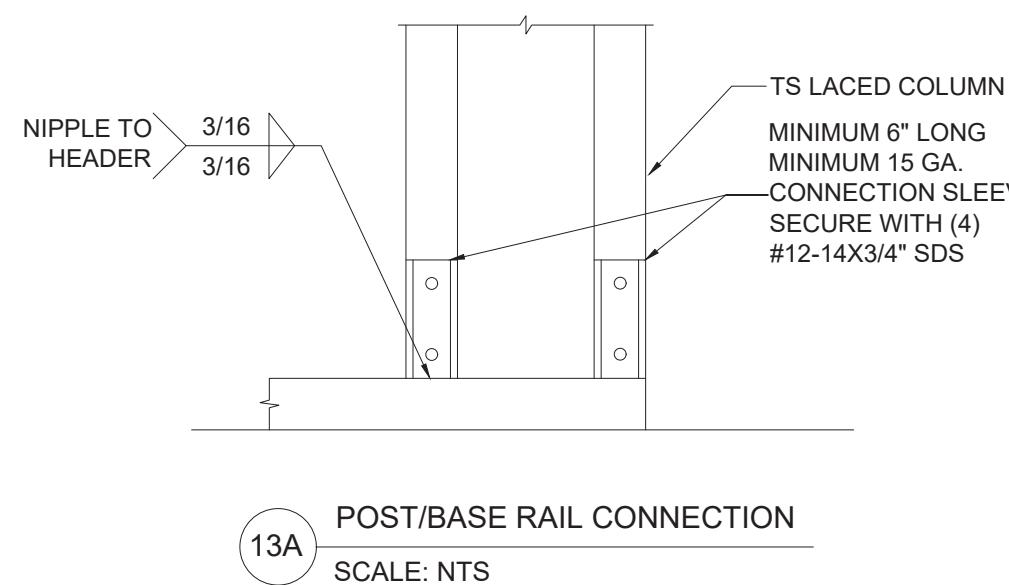
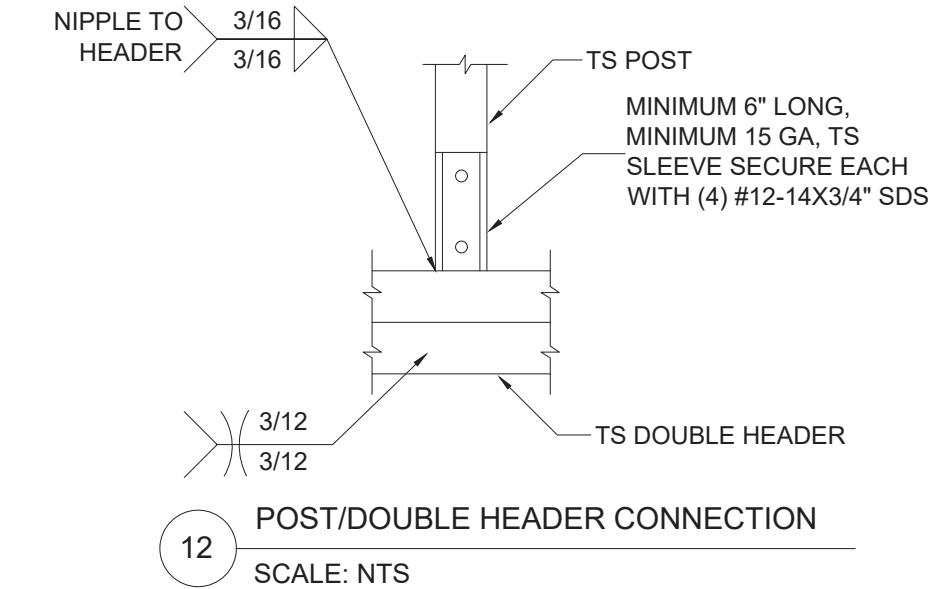
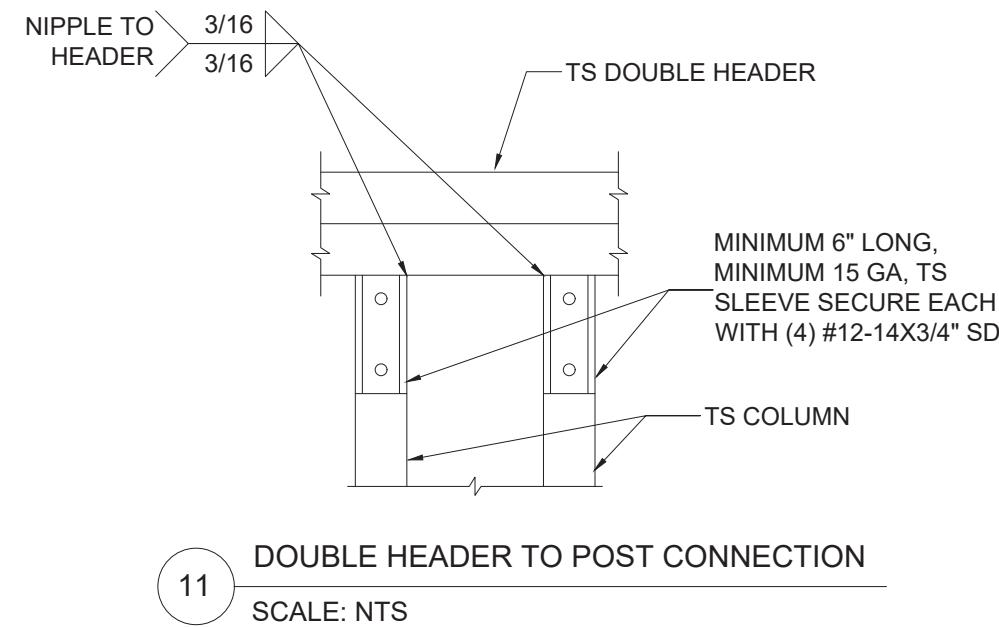


10 POST TO HEADER, BASE
RAIL CONNECTION
SCALE: NTS

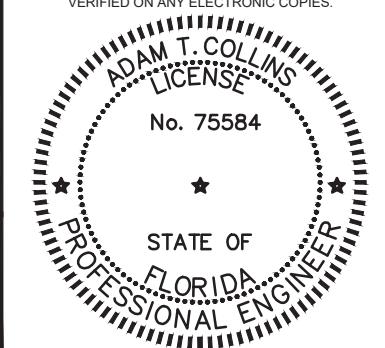
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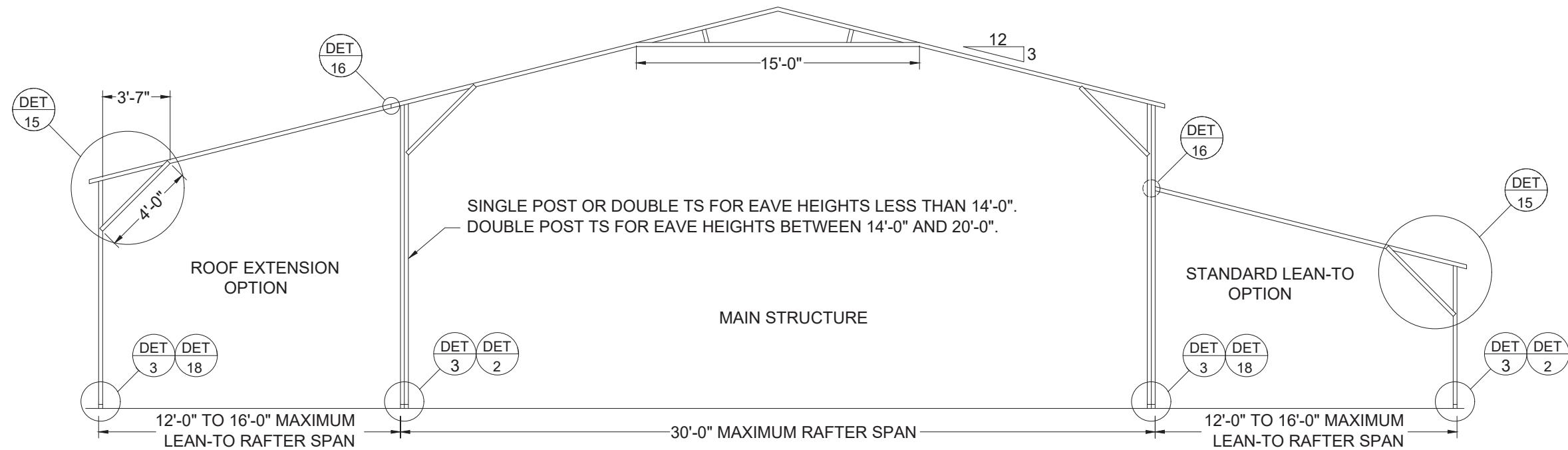


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			DRAWN	SM				ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (2 OF 4)	Curtis Mixon 175 SW Platinum Glen Lake City, FL 32024	S-6
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							



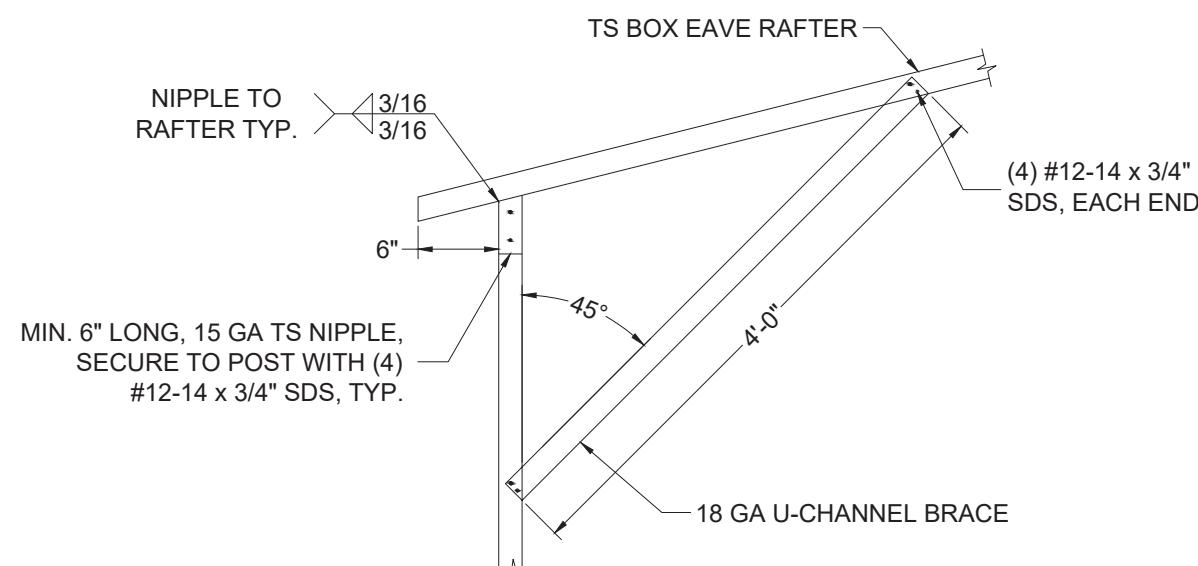
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								 ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (3 OF 4)	Curtis Mixon 175 SW Platinum Glen Lake City, FL 32024	S-7
								CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM			AS-SHOWN	





TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS

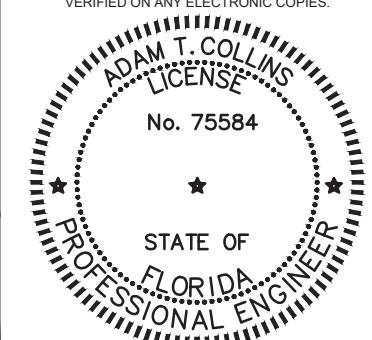


**LEAN-TO RAFTER/CORNER
POST CONNECTION**

15

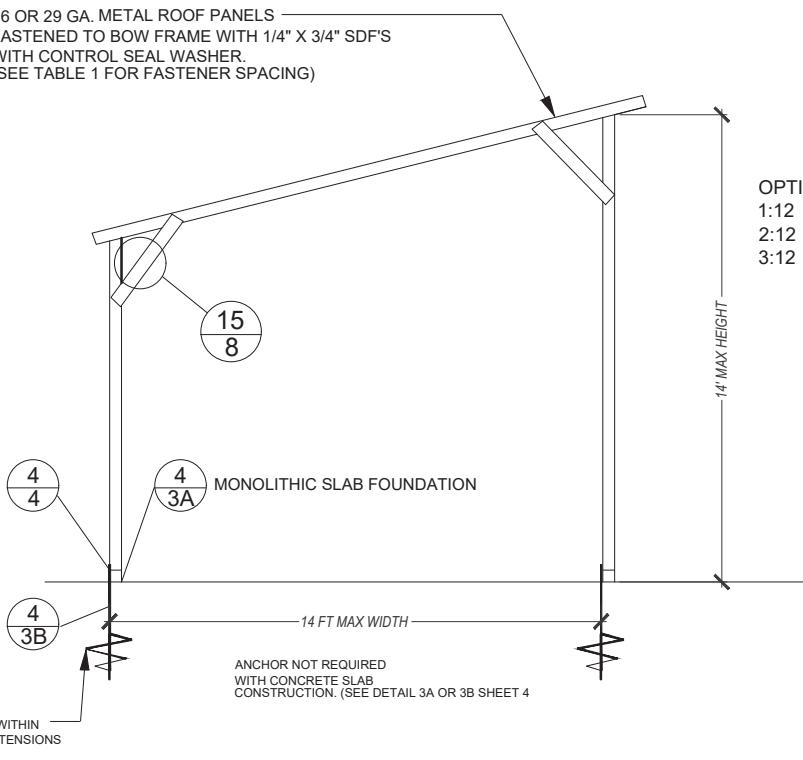
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			DESIGNED	DMC							AS-SHOWN
			CHECKED	ATC							
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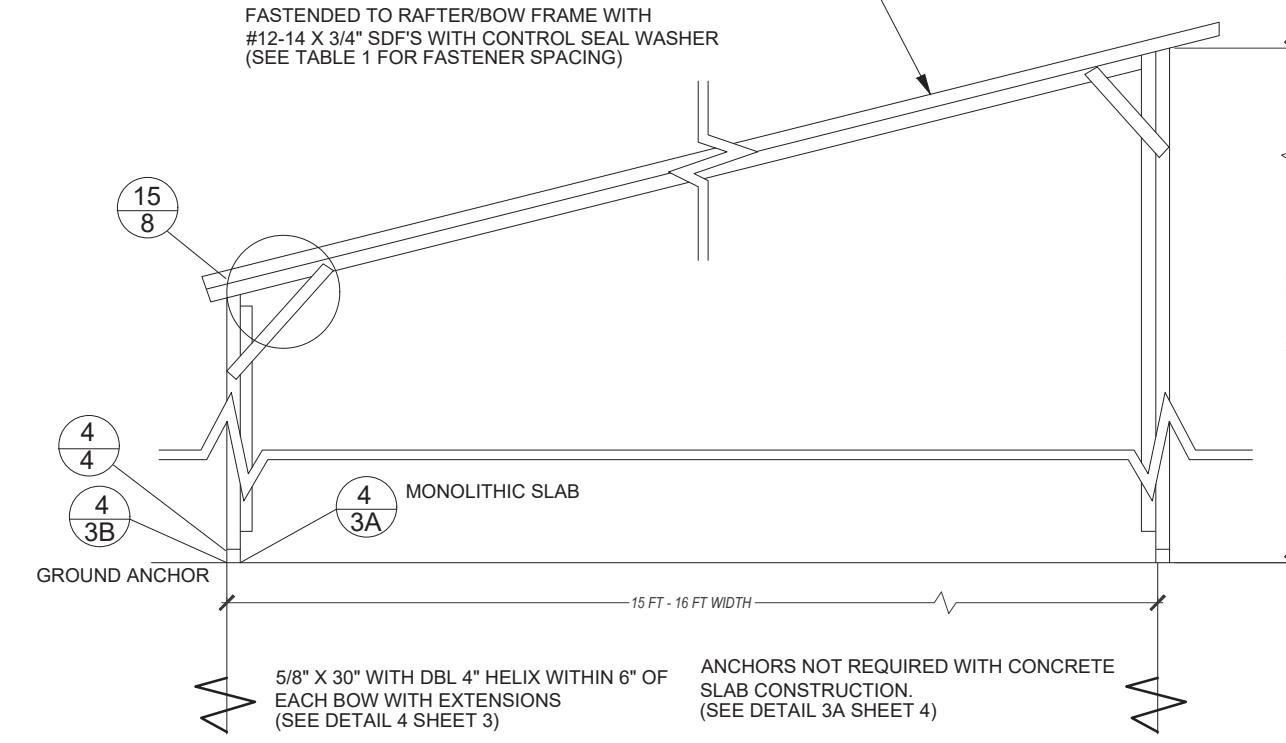
26 OR 29 GA. METAL ROOF PANELS _____
FASTENED TO BOW FRAME WITH 1/4" X 3/4" SDFT
WITH CONTROL SEAL WASHER.
(SEE TABLE 1 FOR FASTENER SPACING)



14 FT MAX WIDTH FREESTANDING LEAN-TO

OPTIONAL SLOPES

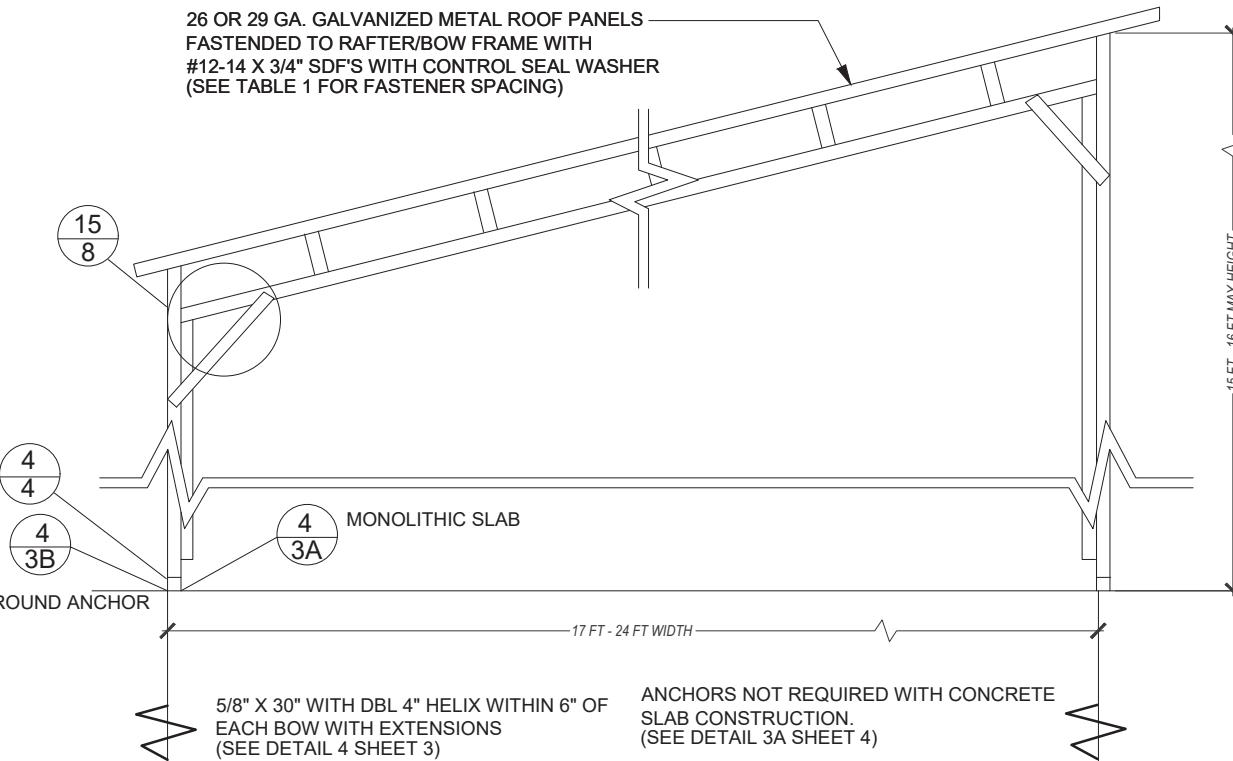
26 OR 29 GA. GALVANIZED METAL ROOF PANELS
FASTENED TO RAFTER/BOW FRAME WITH
#12-14 X 3/4" SDF'S WITH CONTROL SEAL WASHERS
(SEE TABLE 1 FOR FASTENER SPACING)



15 FT - 16 FT WIDTH FREESTANDING LEAN-TO LEAN-TO

3" X 30" W/DBL 4" HELIX WITHIN
OF EACH BOW WITH EXTENSION
(SEE DETAIL 3B, SHEET 4)

26 OR 29 GA. GALVANIZED METAL ROOF PANELS -
FASTENED TO RAFTER/BOW FRAME WITH
#12-14 X 3/4" SDF'S WITH CONTROL SEAL WASHER
(SEE TABLE 1 FOR FASTENER SPACING)



17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO
SCALE: NTS

1.	

REVISIONS

DATE

DATE	#202
AWN	SM
SIGNED	DM
HECKED	ATC
B No.	220

11111

BMITTALS

	DATE

PREPARED BY
ADAM COLLINS
ENGINEERING INC.

CLIENT
ELITE
MANUF
10121 88

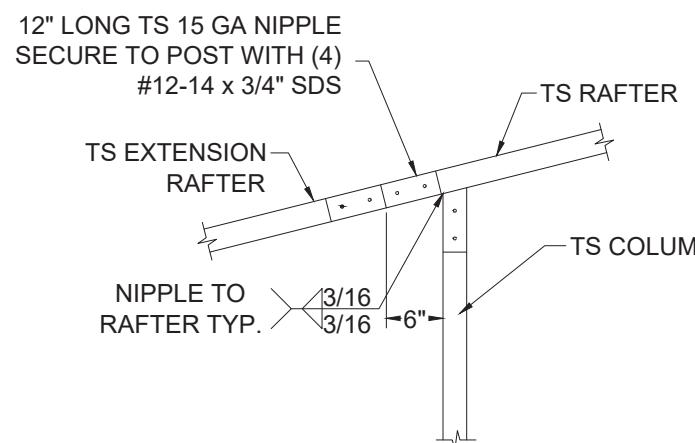
SHEET TITLE
FREESTANDING BOX
EAVE RAFTER
LEAN-TO OPTIONS

PROJECT Curtis Mixon
175 SW Platinum Glen
Lake City, FL 32024

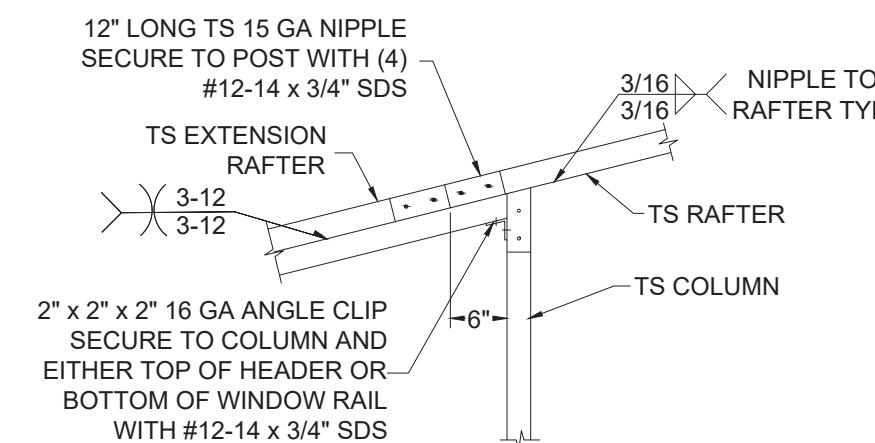
SHEET NO.
S-9
SCALE
AS-SHOWN

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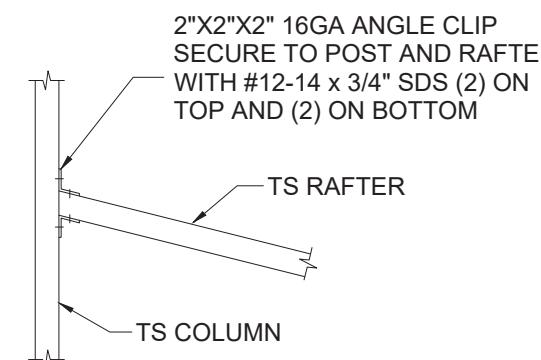
A circular seal for a Florida Professional Engineer license. The outer ring contains the text "FLORIDA" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by a dotted line. The inner circle contains "STATE OF" at the top, "FLORIDA" in the center, and "PROFESSIONAL ENGINEER" at the bottom. The text "ADAM T. COLLINS" is at the top, and "LICENSE" is at the bottom, both within the inner circle. The number "No. 75584" is in the center. The seal is framed by a dotted line and a double-lined outer border.



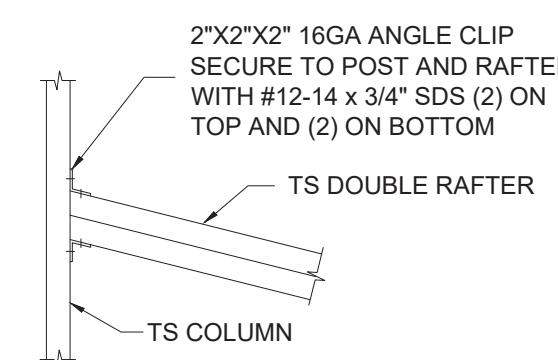
16A SIDE EXTENSION RAFTER/POST CONNECTION
RAFTER SPAN LESS THAN 12'-0"
SCALE: NTS



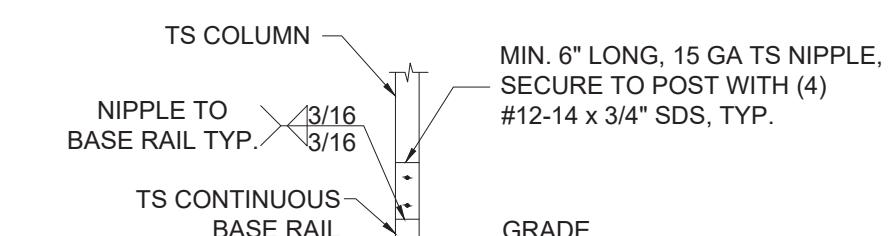
16B SIDE EXTENSION RAFTER/POST CONNECTION
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"
SCALE: NTS



17A LEAN-TO RAFTER/COLUMN CONNECTION
RAFTER SPANLESS THAN 12'-0"
SCALE: NTS



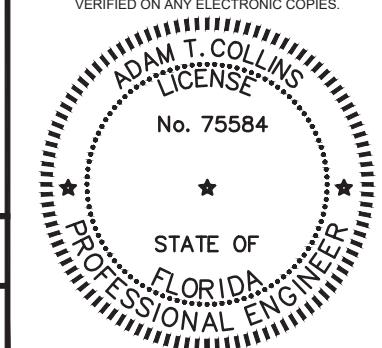
17B LEAN-TO RAFTER/COLUMN CONNECTION
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"
SCALE: NTS

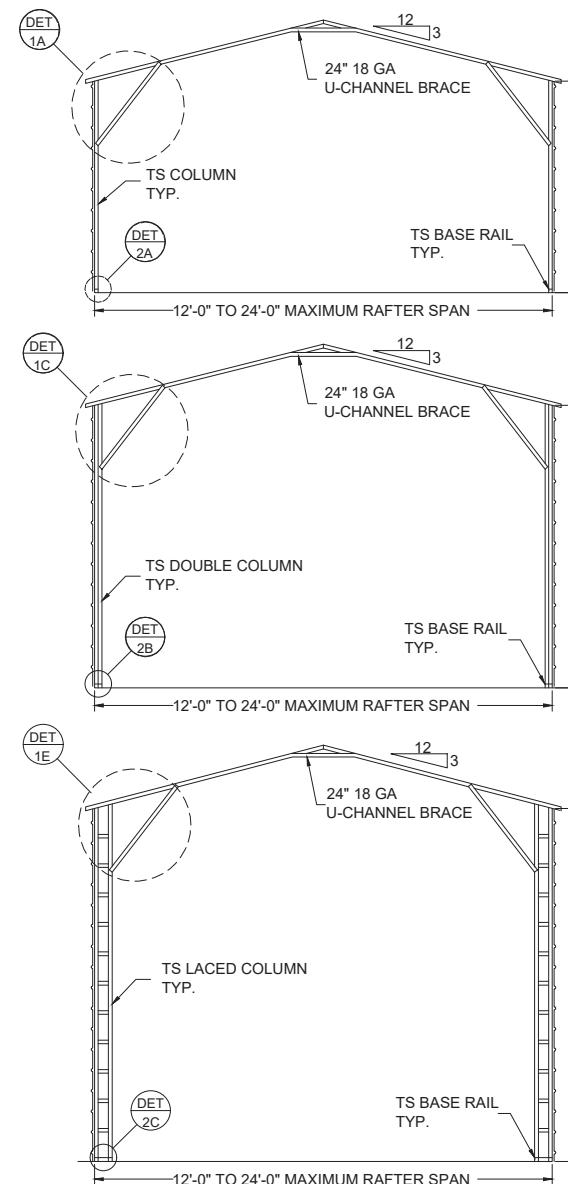


18 LEAN-TO POST CONNECTION
SCALE: NTS

NO.	REVISIONS	DATE	DATE DRAWN	2025.11.14	SUBMITTALS	DATE DESIGNED	DMC	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
								 ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (4 OF 4)	Curtis Mixon 175 SW Platinum Glen Lake City, FL 32024	S-10
								CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM			AS-SHOWN	

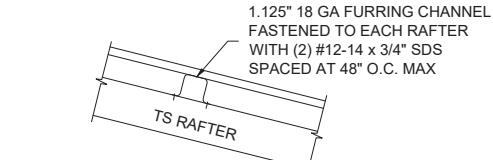
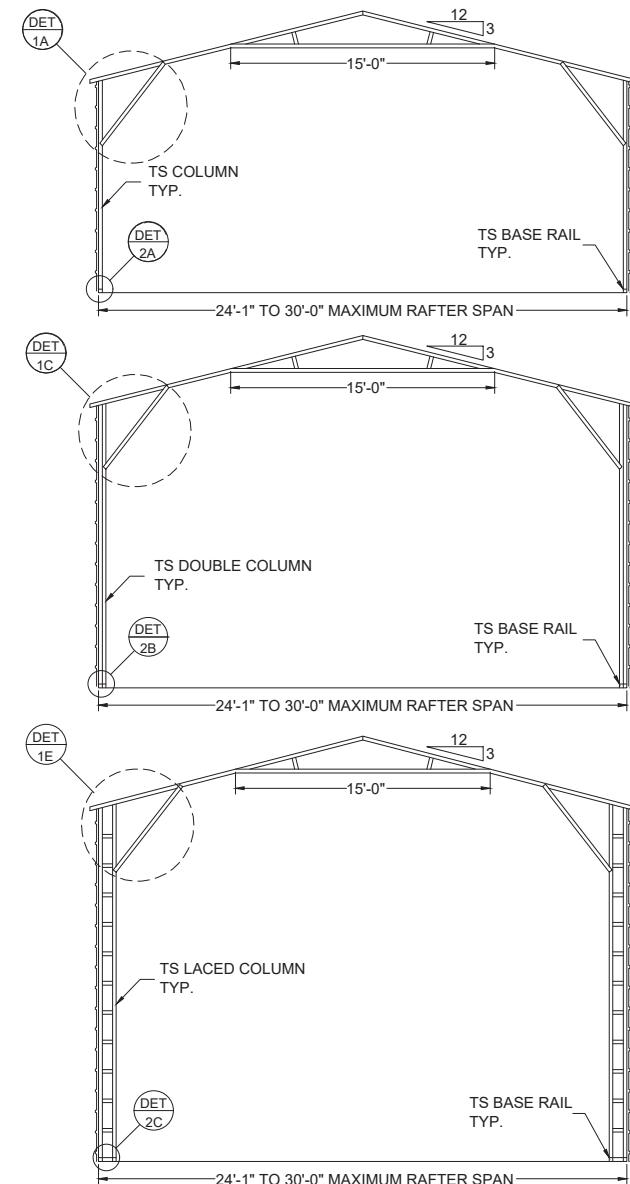
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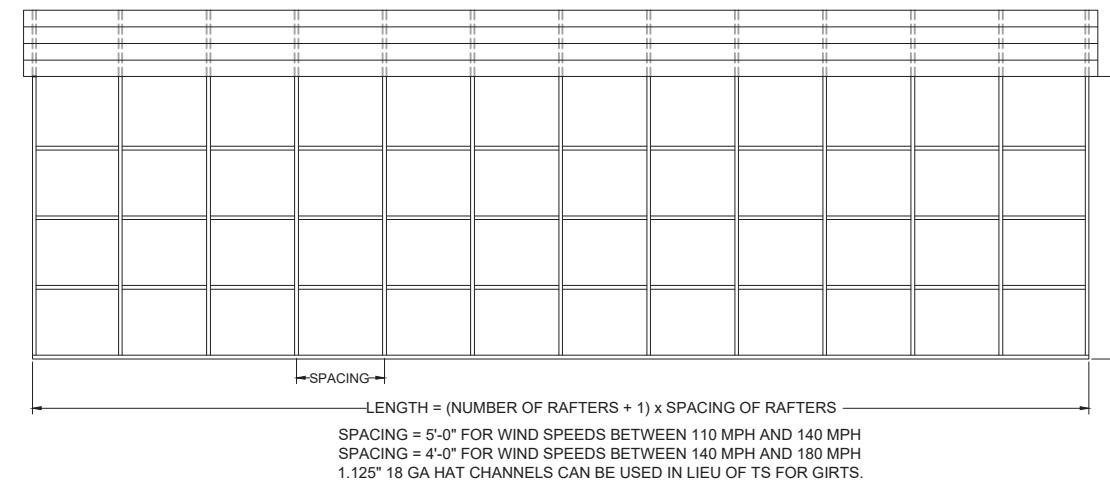


BOX EAVE FRAME

SCALE: NTS

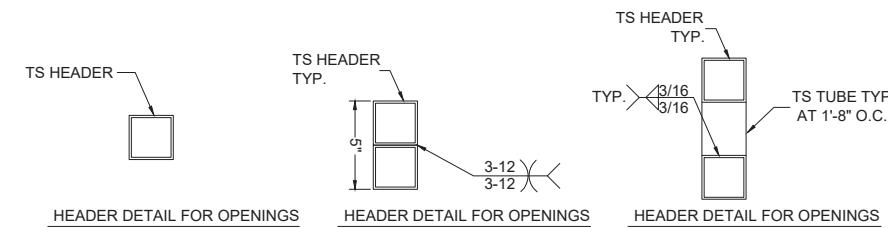
PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)

SCALE: NTS



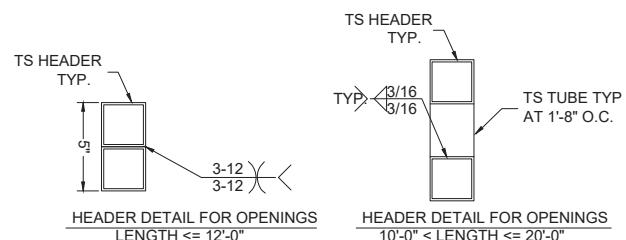
TYPICAL SIDE FRAME SECTION

SCALE: NTS



SIDE WALL OPTION HEADER

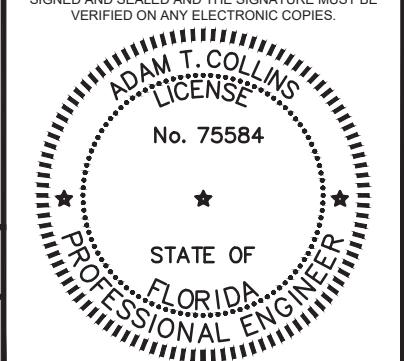
SCALE: NTS



END WALL OPTION HEADER

SCALE: NTS

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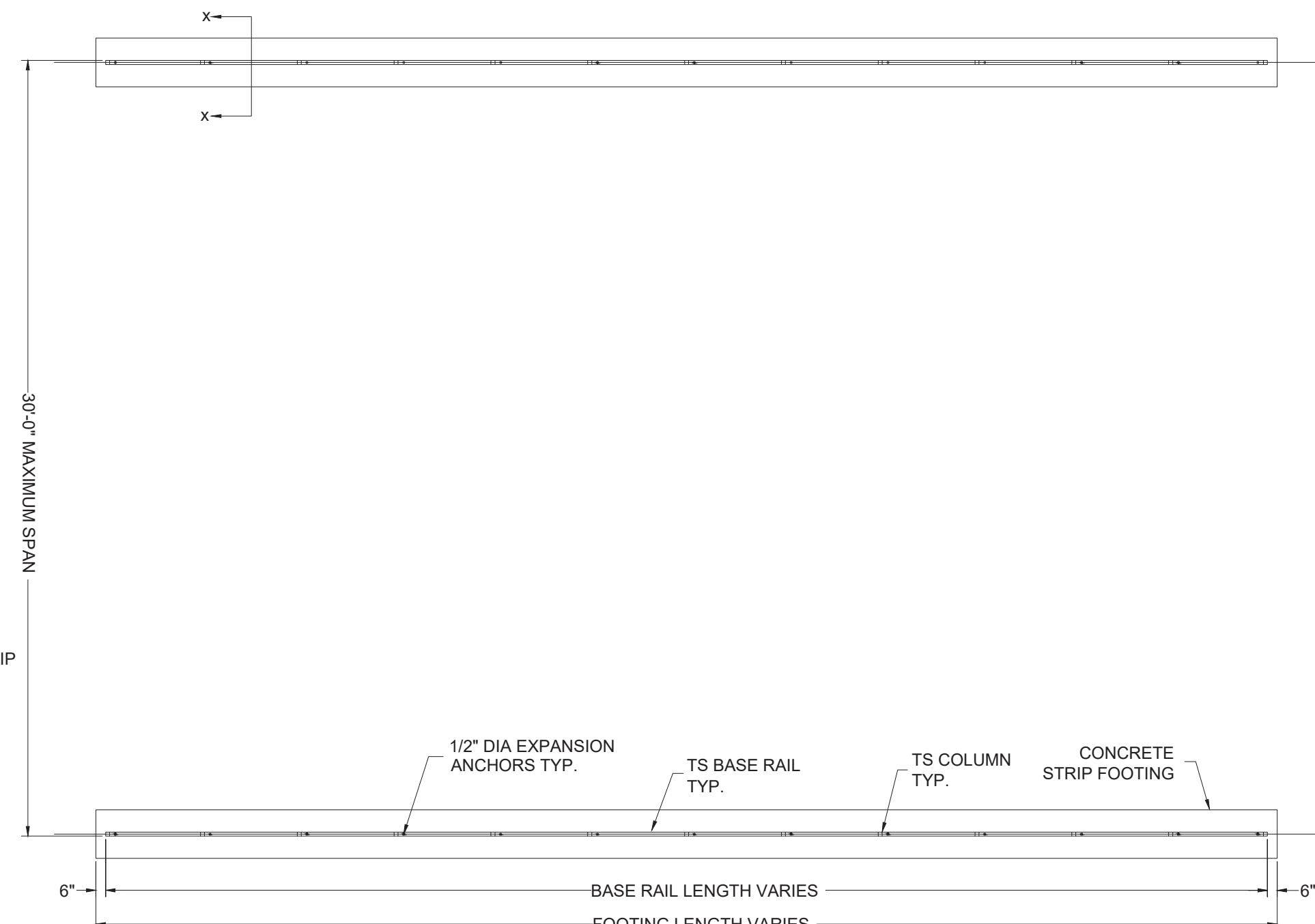
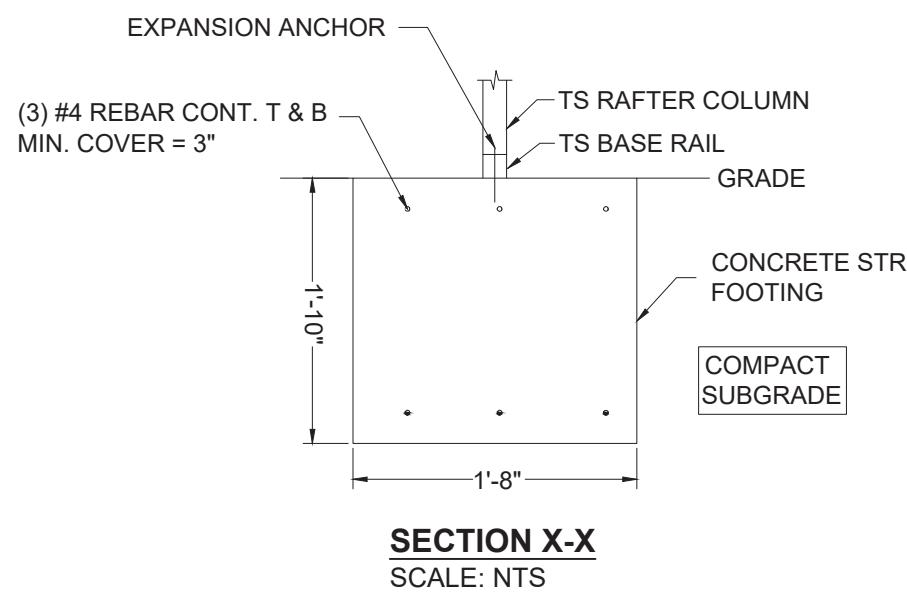
NO.	REVISIONS	DATE	DATE DRAWN	2025.11.14	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX EAVE RAFTER VERTICAL ROOF-SIDING OPTION	Curtis Mixon 175 SW Platinum Glen Lake City, FL 32024	S-11
			DESIGNED	DMC			CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM				AS-SHOWN
			CHECKED	ATC							
			JOB No.	22047							

GENERAL NOTES

MINIMUM SOIL BEARING CAPACITY: 1500 PSF.
CONCRETE STRENGTH: 3000 PSI @ 28 DAYS

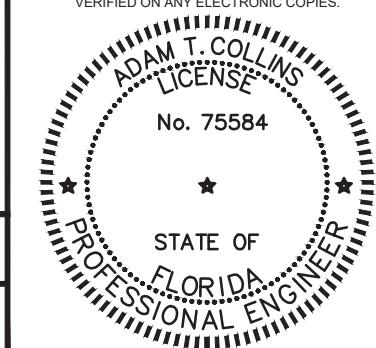
REINFORCING STEEL

1. REBAR SHALL BE ASTM A615 GRADE 60
2. SLAB REINFORCEMENT = WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
3. CONCRETE COVER SHALL BE
 - 3.1. 3" WHERE EXPOSED TO SOIL OR WATER.
 - 3.2. 2" EVERYWHERE ELSE.
4. REBAR SHALL BE BENT WITHOUT HEATING.
5. MINIMUM BEND = 6 X BAR DIAMETER
6. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



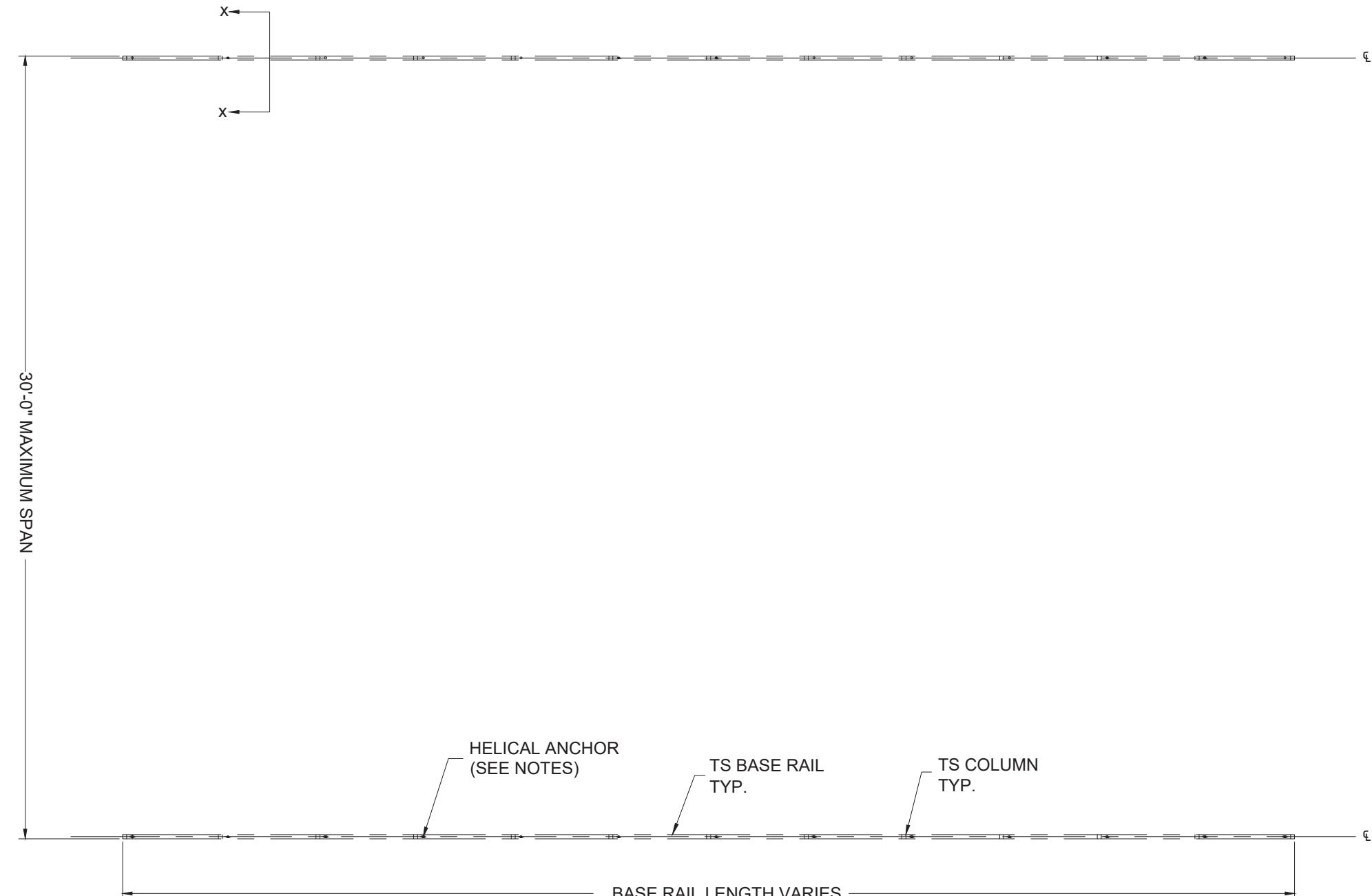
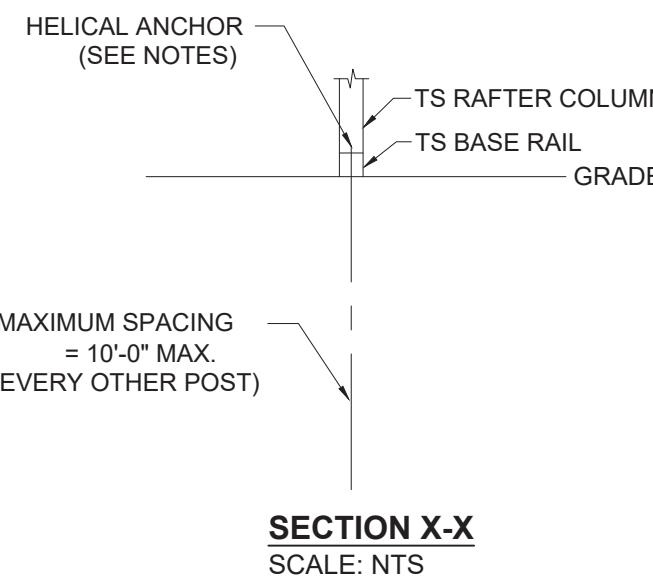
NO.	REVISIONS	DATE	DATE	DRAWN	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
		2025.11.14		SM			 ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	OPTIONAL CONCRETE STRIP FOOTING	Curtis Mixon 175 SW Platinum Glen Lake City, FL 32024	S-12
				DESIGNED			CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM			AS-SHOWN	
				CHECKED						SCALE	
				JOB No.							
				22047							

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HELIX ANCHOR NOTES

1. USE MINIMUM (2) 4" HELICES WITH 30" EMBEDMENT FOR THE FOLLOWING SOILS:
 - 1.1. VERY DENSE AND/OR CEMENTED SANDS
 - 1.2. COARSE GRAVEL AND COBBLES
 - 1.3. CALICHE
 - 1.4. PRELOADED SILTS AND CLAYS
 - 1.5. CORALS
 - 1.6. MEDIUM DENSE COARSE SANDS
 - 1.7. SANDY GRAVEL
 - 1.8. VERY STIFF SILTS AND CLAYS
2. USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT FOR
 - 2.1. LOOSE TO MEDIUM DENSE SANDS
 - 2.2. FIRM TO STIFF CLAYS AND SILTS
 - 2.3. ALLUVIAL FILL
3. USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.
 - 3.1. FOR VERY LOOSE TO MEDIUM DENSE SANDS
 - 3.2. FIRM TO STIFFER CLAYS AND SILTS
 - 3.3. ALLUVIAL FILL,



NO.	REVISIONS	DATE	DATE	DRAWN	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
		2025.11.14		SM			ADAM COLLINS  ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	OPTIONAL HELICAL ANCHORING DETAIL	Curtis Mixon 175 SW Platinum Glen Lake City, FL 32024	S-13
				DESIGNED							
				CHECKED							
				JOB No.	22047						

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