

APPLICABLE CODES AND STANDARDS

- 1. 2023 FLORIDA BUILDING CODE (8TH EDITION)
- 2. 2021 INTERNATIONAL BUILDING CODE
- 3. ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
- 4. AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
- 5. ACI 318-14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- 6. TMS 402-16: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
- 7. AWS D1.1: STRUCTURAL WELDING

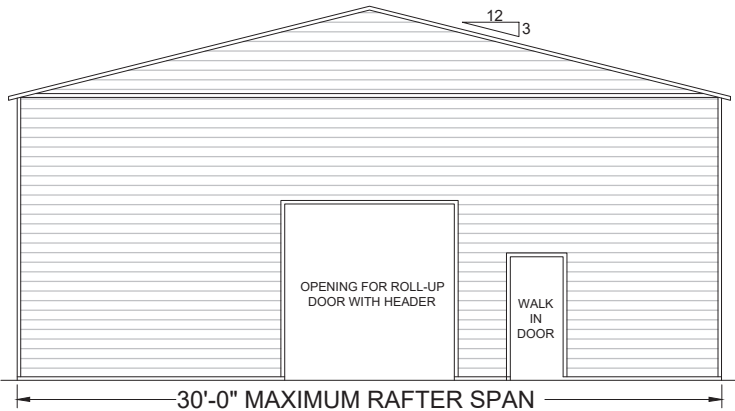
DESIGN LOADS

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

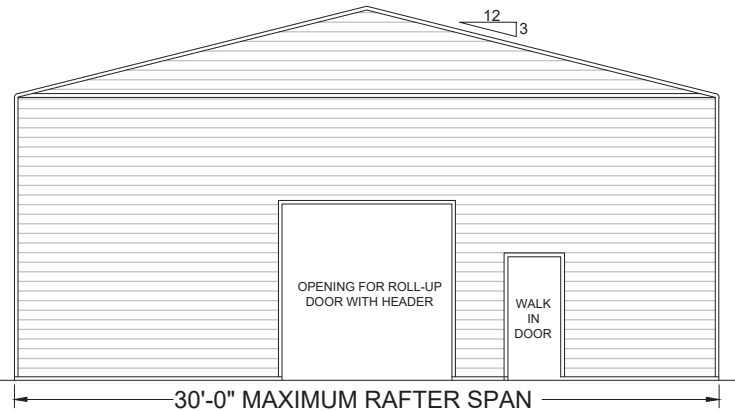
ENCLOSED METAL BUILDING DESIGN  
24FT WIDE X 45FT LONG X 10FT EAVE HT.

INSTALLATION NOTES AND SPECIFICATIONS

- 1. ROOF PITCH SHALL NOT BE GREATER THAN 12H:4V
- 2. END WALL COLUMNS (POST) AND SIDE WALL COLUMNS ARE THE SAME U.N.O.
- 3. 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.
  - 3.1. 29 GA METAL PANELS SHALL BE FASTENED DIRECTLY TO 18 GA HAT CHANNELS U.N.O.
- 4. FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS SHALL BE:
  - 4.1. INTERIOR = 9"
  - 4.2. END = 6".
- 5. FASTENERS SHALL BE #12-14 x 3/4" SELF-DRILLING SCREWS (SDS), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. APPLICABLE ONLY FOR:
  - 5.1. MEAN ROOF HEIGHT OF 20'-0" OR LESS
  - 5.2. ROOF SLOPES OF 18° (4:12 PITCH) OR LESS.
  - 5.3. SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- 6. ANCHORS SHALL BE INSTALLED THROUGH THE BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES AND ENDS.
- 7. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR WITH WELDED NUT x 30" LONG AND MAY BE USED IN SUITABLE SOILS.
  - 7.1. 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.



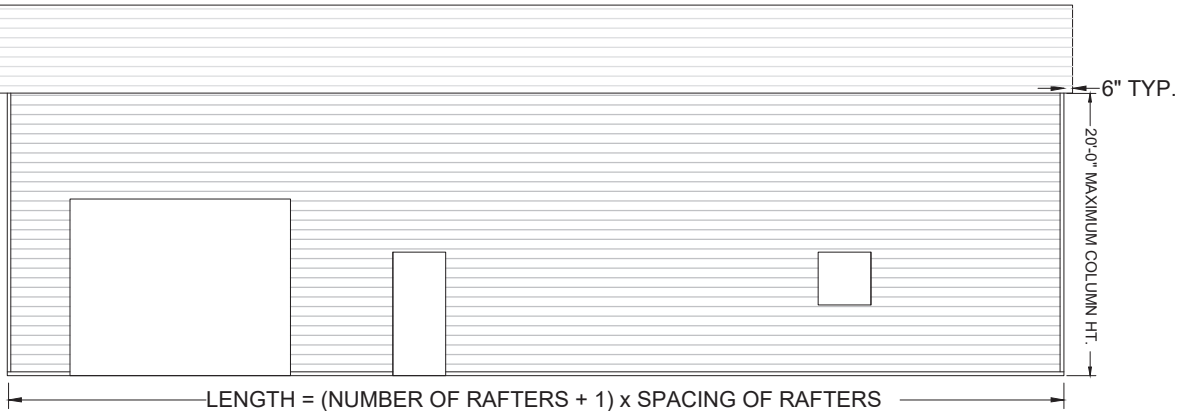
TYPICAL ELEVATION - BOX EAVE  
SCALE: NTS



TYPICAL ELEVATION - BOW EAVE  
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.



TYPICAL SIDE ELEVATION  
SCALE: NTS

DRAWING INDEX

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S-12	OPTIONAL CONCRETE STRIP FOOTING
S-13	OPTIONAL HELICAL ANCHORING DETAIL

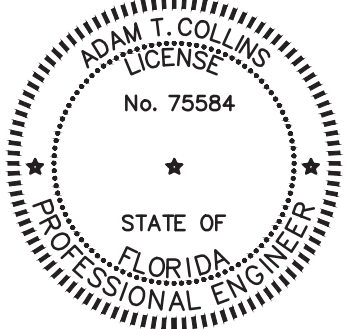
MEMBER	TABLE 1	
	PRODUCT APPROVAL NUMBER	MAX WIND DESIGN PRESSURES
ROOF PANELS	FL39466	+41.6 PSF / -31.2 PSF
WALL PANELS	FL39594	+55.4 PSF / -41.6 PSF
GARAGE DOOR	CTP	CTP
WALK-IN DOOR	CTP	CTP

CTP = CONTRACTOR TO PROVIDE 2023 FBC APPROVED PRODUCTS THAT MEET OR EXCEED DESIGN PRESSURES AS TABULATED.



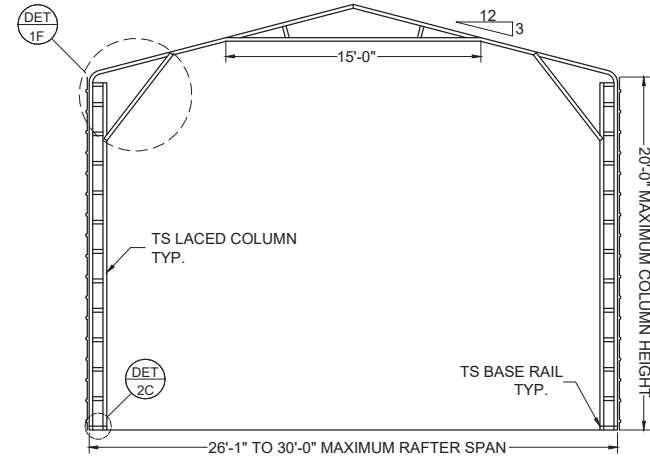
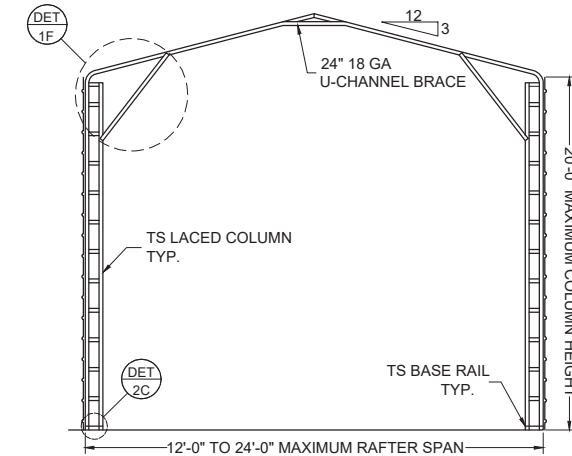
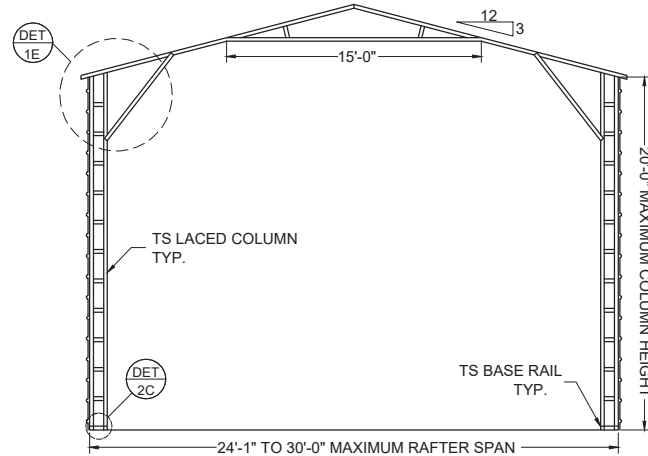
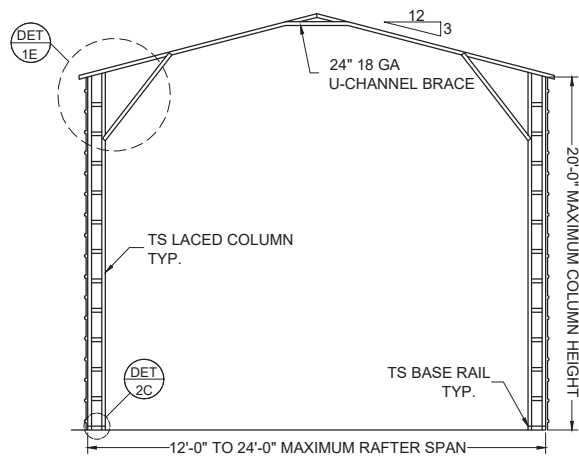
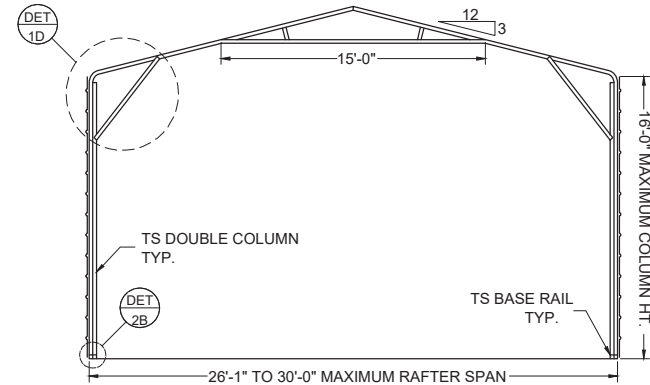
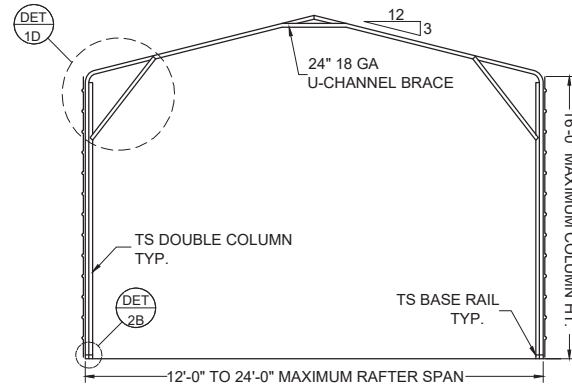
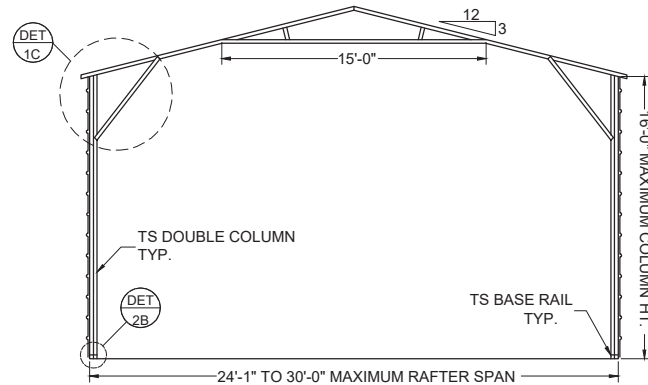
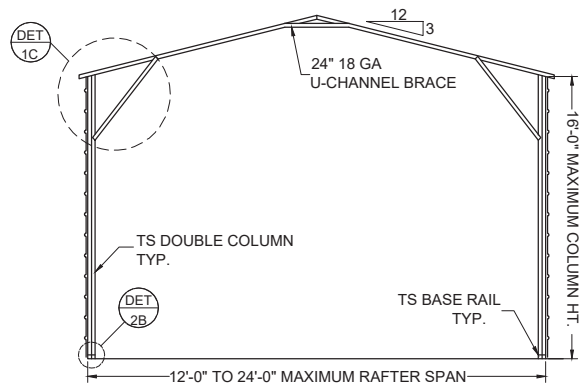
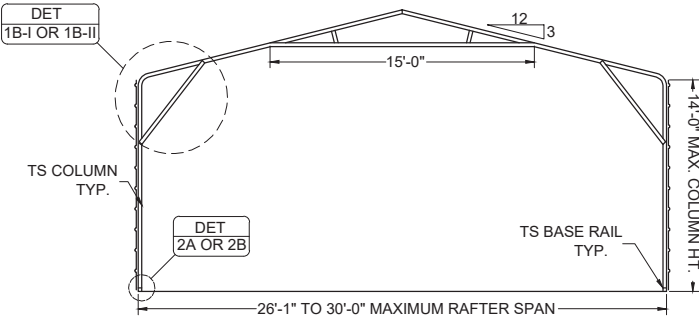
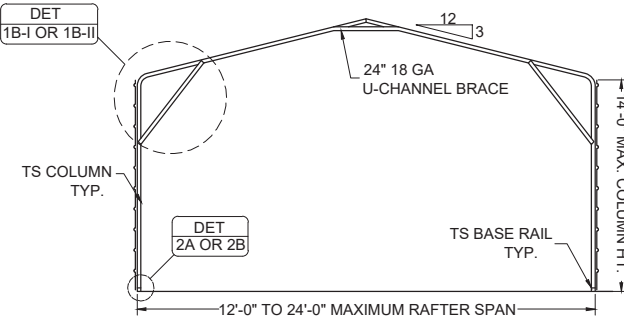
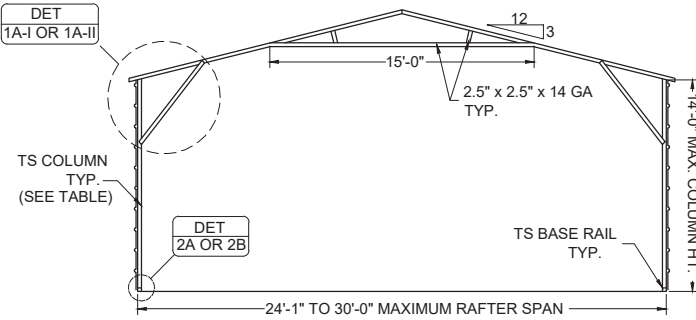
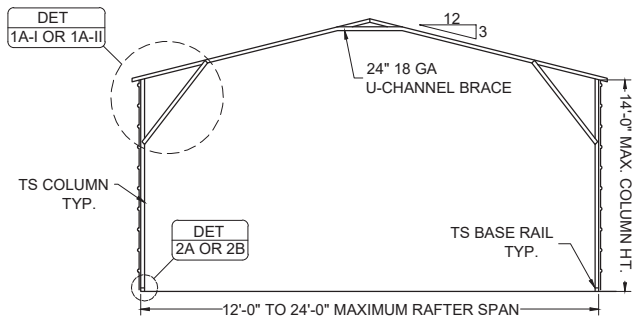
PLANS PREPARED BY:  
**ADAM COLLINS**  
ENGINEERING INC.  
12558 BASS ROAD, LIVE OAK, FLORIDA 32060  
P:386.320.7400 F: 850.807.7309  
WWW.COLLINSENG.COM  
CERTIFICATE OF AUTHORIZATION: 31728

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			DRAWN	SM			<b>ADAM COLLINS</b> ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	NOTES AND SPECIFICATIONS	Alan Rudd 1002 SW daisy Rd Lake city, FL 32024	S-1
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

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## BOX EAVE FRAME

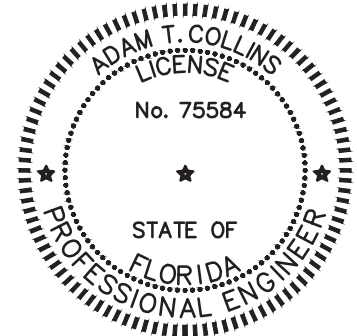
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## BOW EAVE FRAME

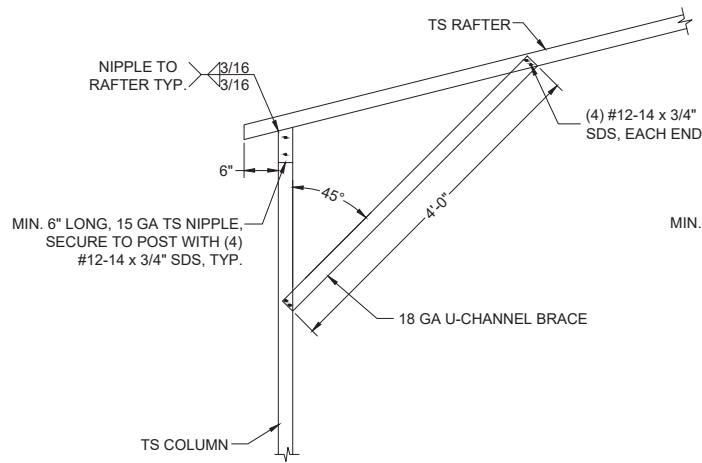
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			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
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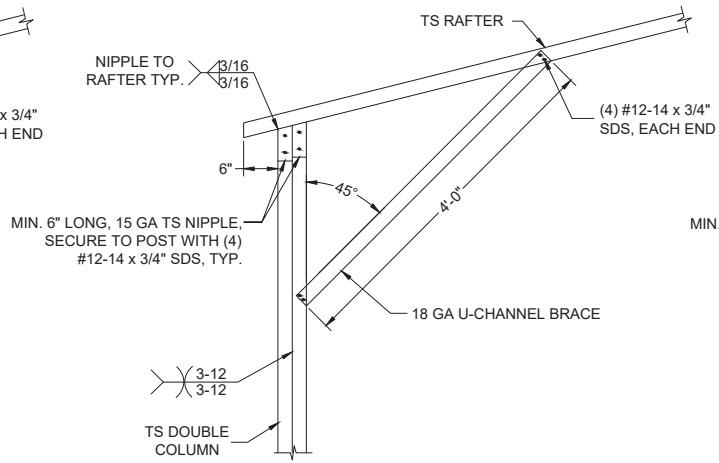
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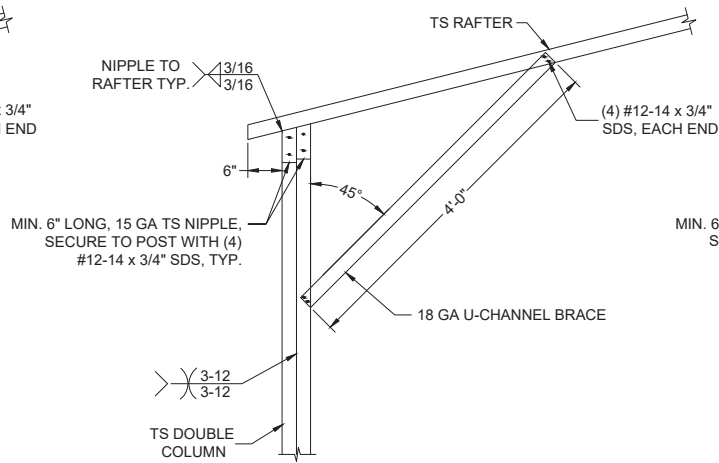
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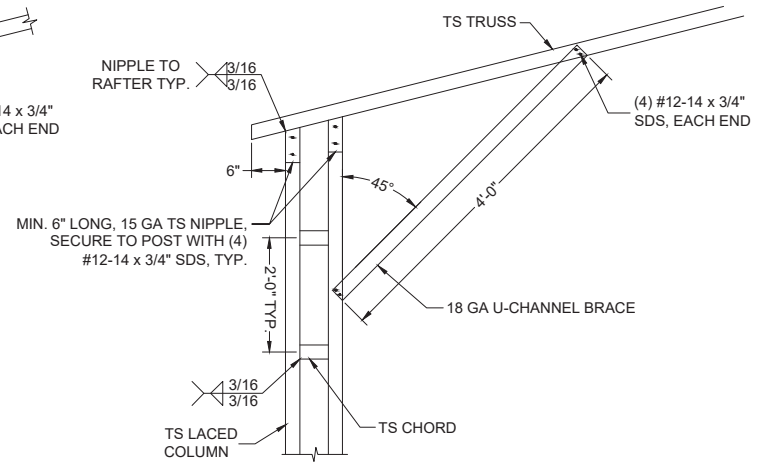
1A-I BOX EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 14'H  
SCALE: NTS



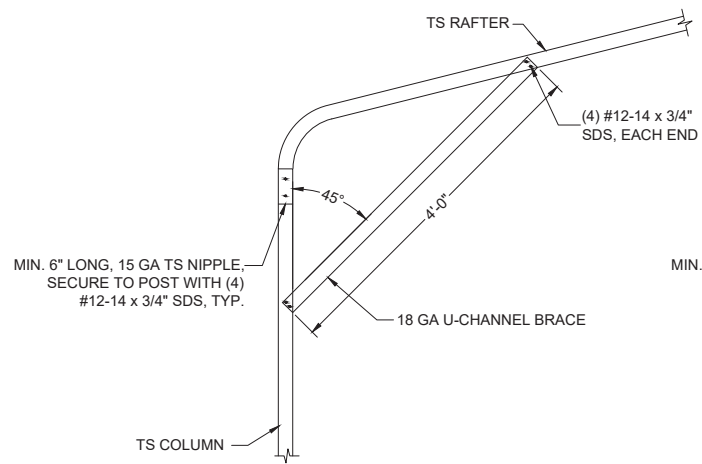
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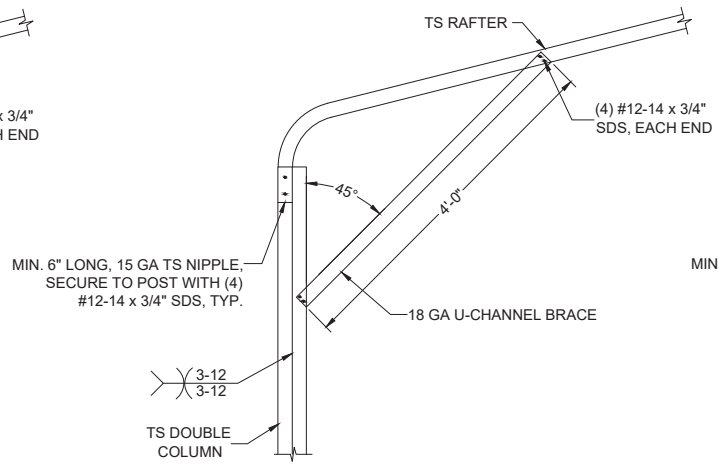
1C BOX EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 16'H  
SCALE: NTS



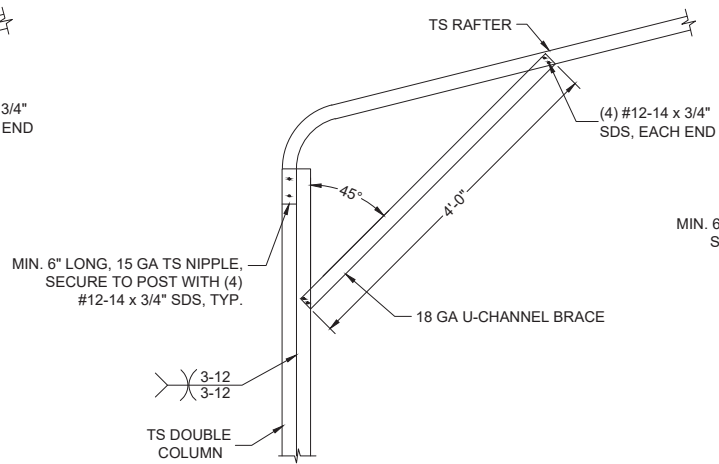
1E BOX EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 20'H  
SCALE: NTS



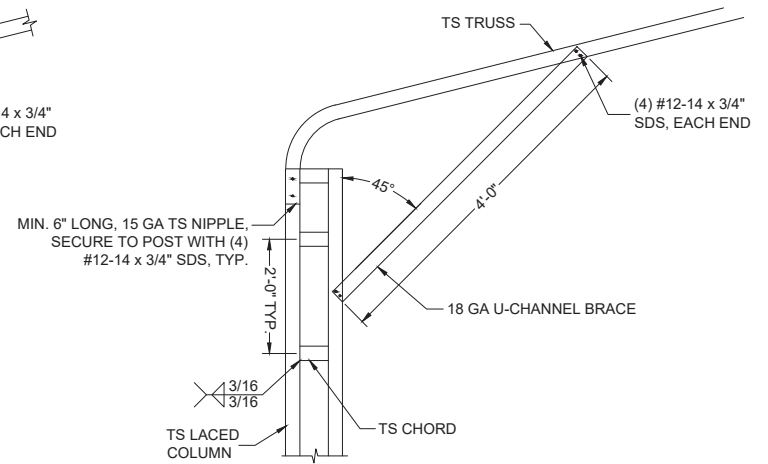
1B-I BOW EAVE RAFTER/CORNER POST  
CONNECTION 30'(MAX.)W x 14'H  
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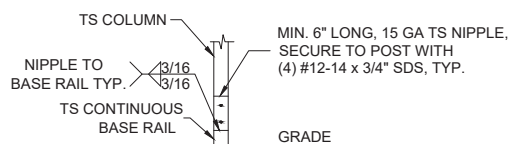
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CONNECTION 30'(MAX.)W x 14'H  
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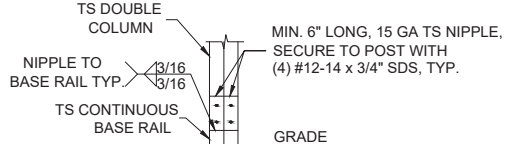
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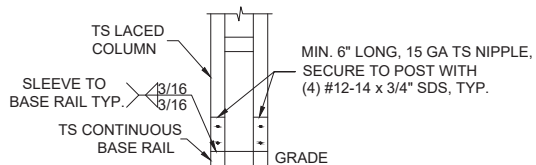
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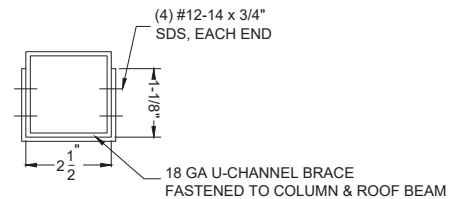
2A POST/BASE RAIL CONNECTION  
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2B POST/BASE RAIL CONNECTION  
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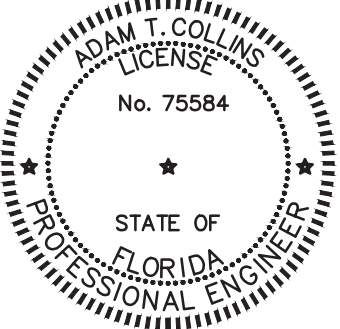


2C POST/BASE RAIL CONNECTION  
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BRACE SECTION  
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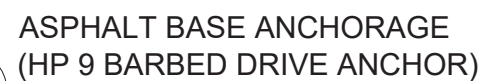


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			DRAWN	SM			 <b>ADAM COLLINS</b> ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (1 OF 4)	Alan Rudd 1002 SW daisy Rd Lake city, FL 32024	S-3
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

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

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.

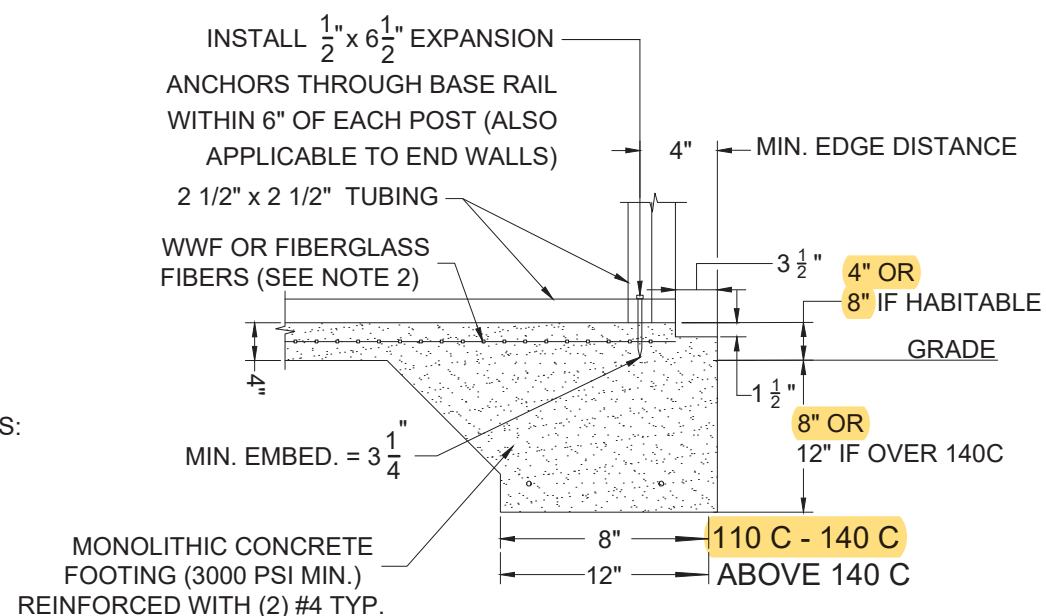
1. USE MINIMUM (2) 4" HELICES WITH 30" EMBEDMENT FOR THE FOLLOWING SOILS:
  - 1.1. VERY DENSE AND/OR CEMENTED SANDS
  - 1.2. COARSE GRAVEL AND COBBLES
  - 1.3. CALICHE
  - 1.4. PRELOADED SILTS AND CLAYS
  - 1.5. CORALS
  - 1.6. MEDIUM DENSE COARSE SANDS
  - 1.7. SANDY GRAVEL
  - 1.8. VERY STIFF SILTS 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,



3C

SCALE: NTS

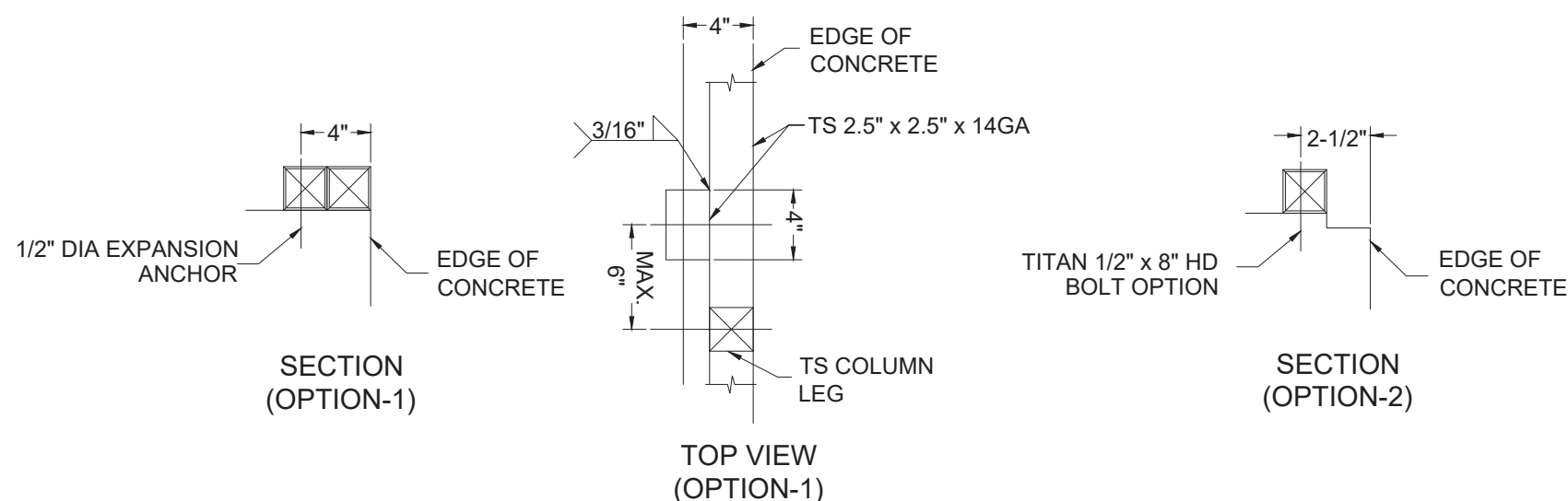
MONOLITHIC FOOTER SIZE	
110 C - 140 C	8" x 12" - (2) #4
ABOVE 140 C	12" x 16" - (2) #4



## CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

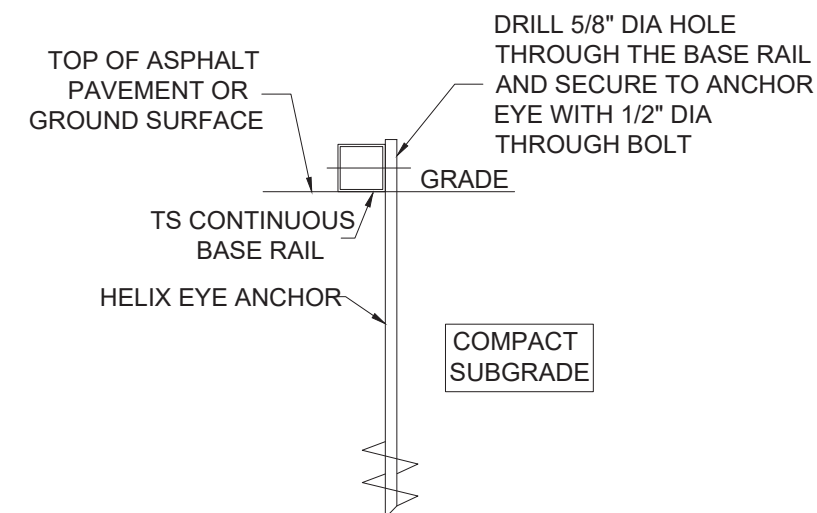
3A

SCALE: NTS



TYPICAL ANCHOR DETAIL WHEN BASE  
RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS

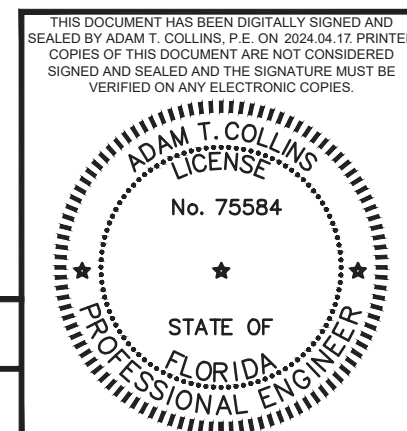


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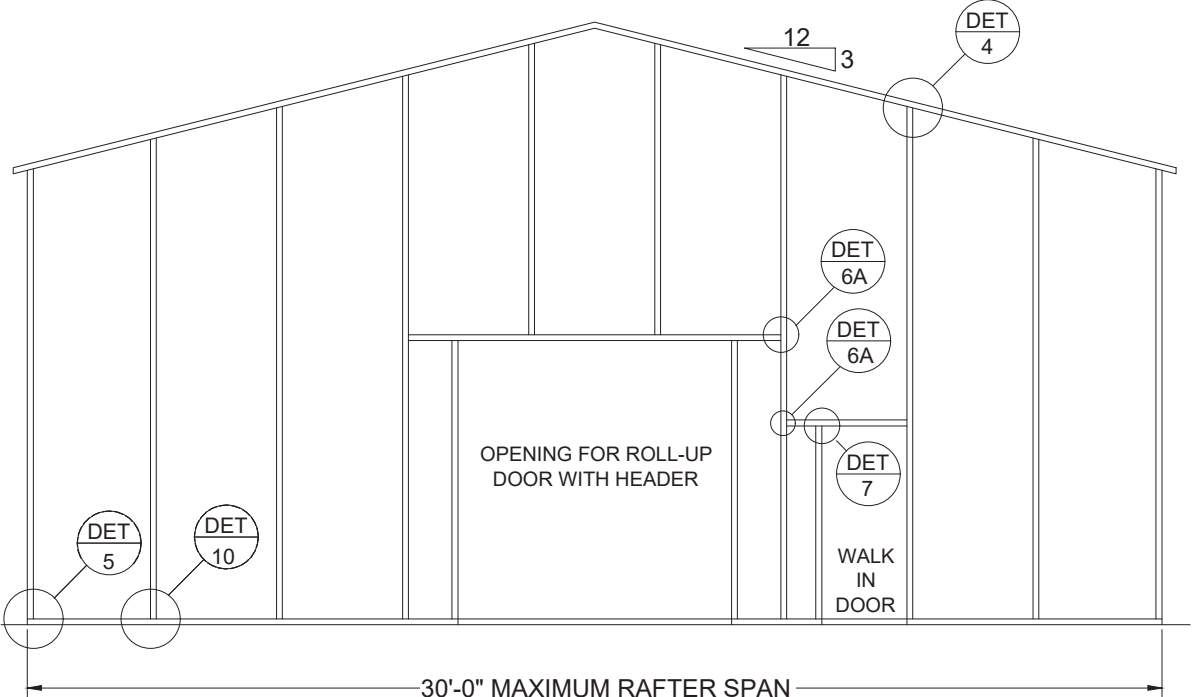
## GROUND BASE HELIX ANCHORAGE

SCALE: NTS

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			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

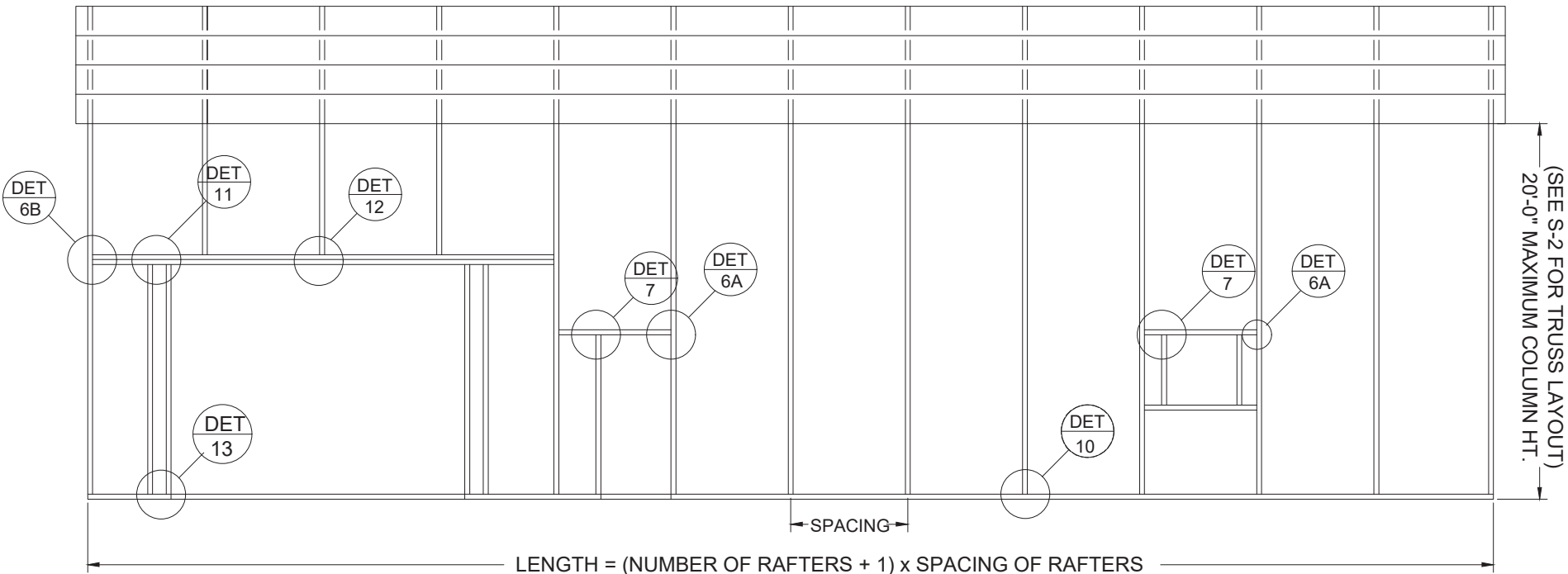






SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH  
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH

**TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION**  
SCALE: NTS



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**  
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			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

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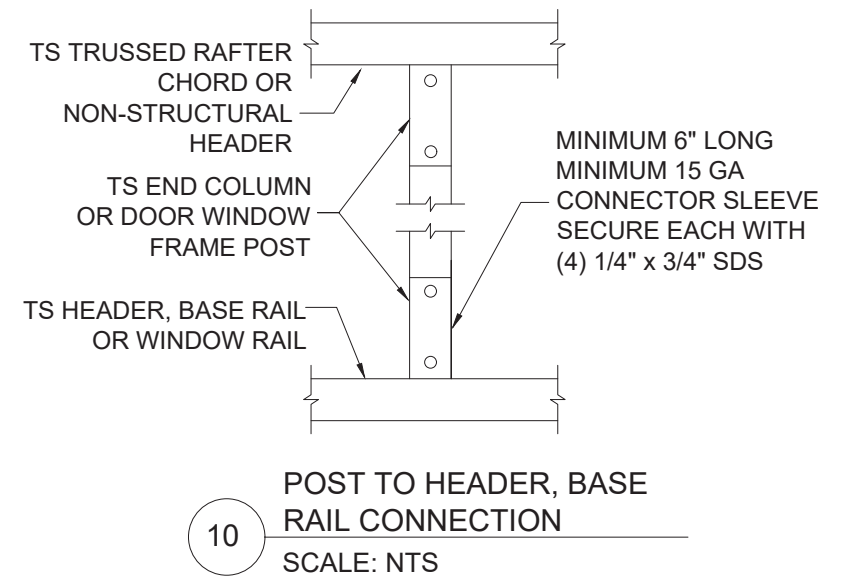
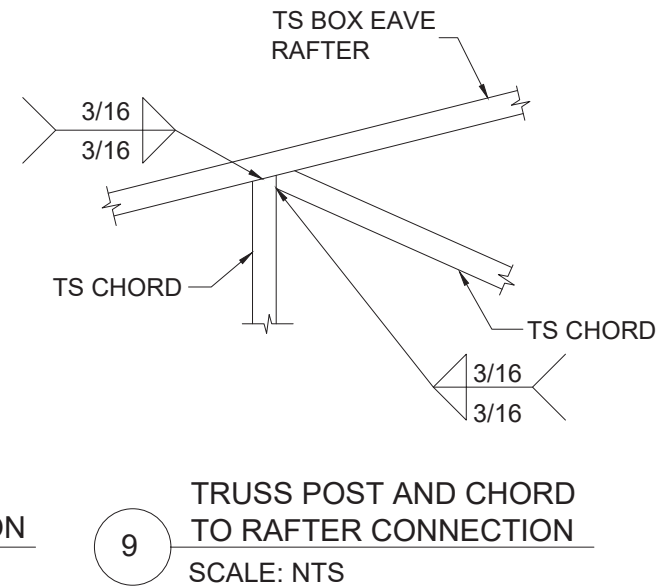
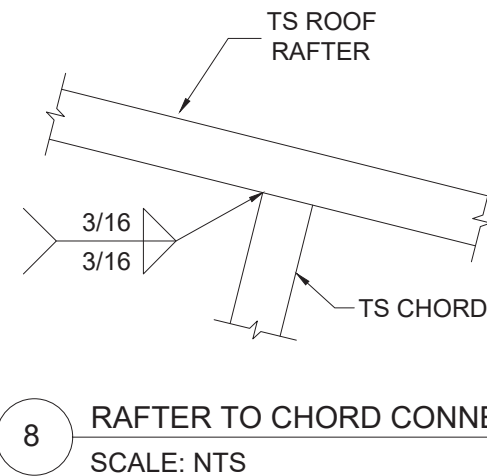
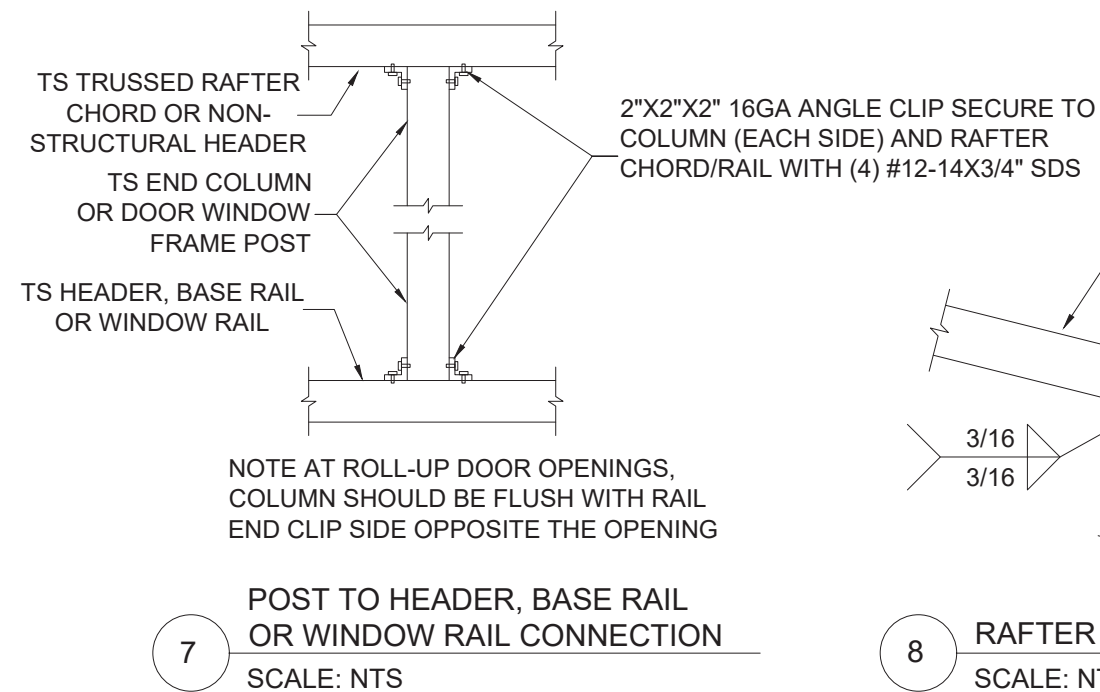
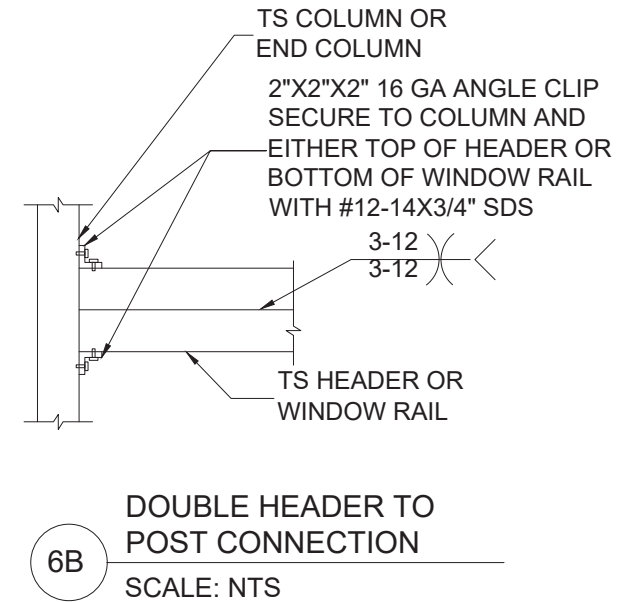
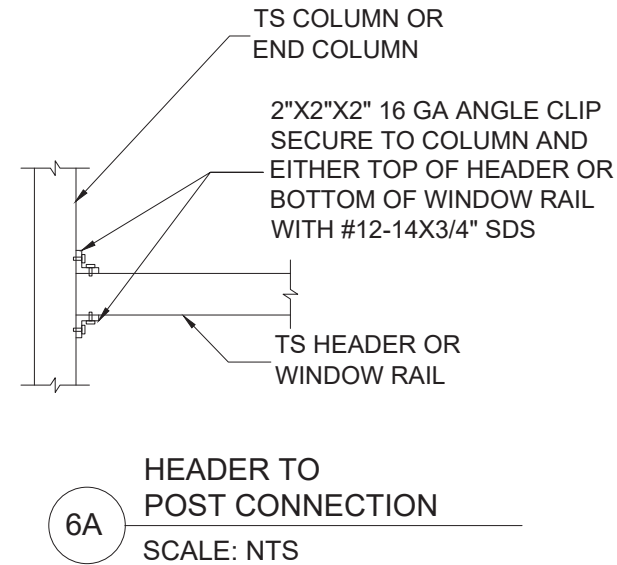
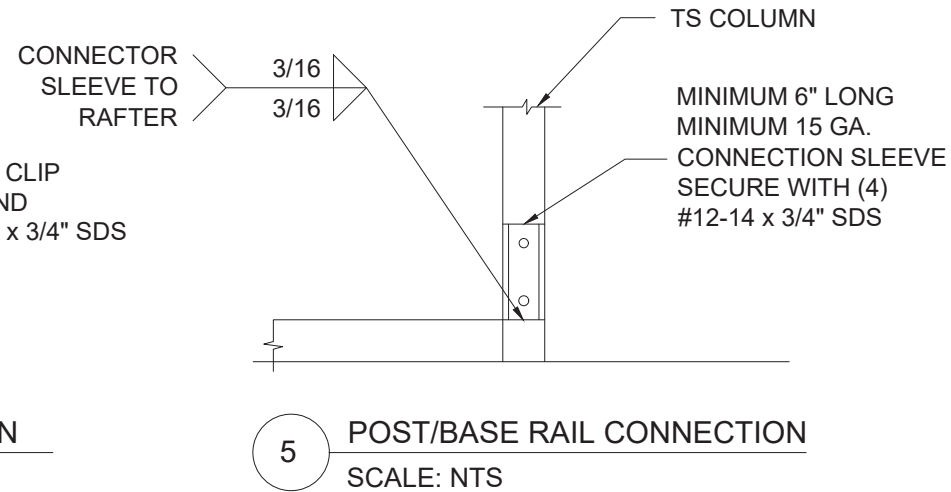
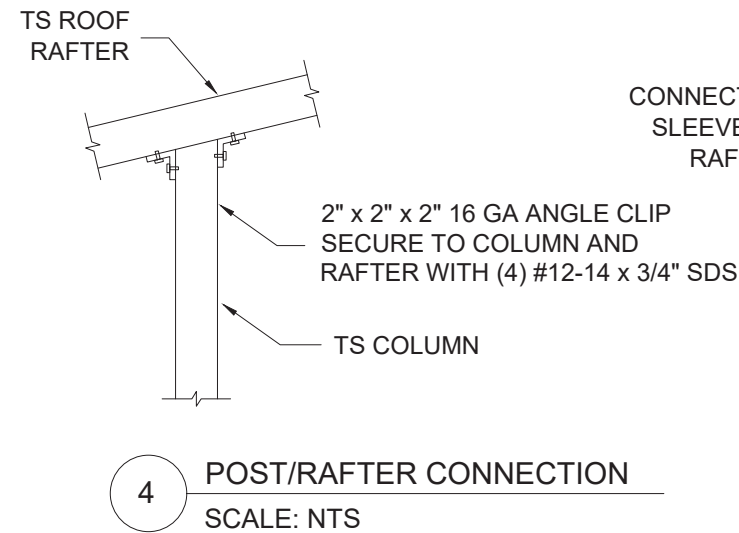
LICENSE

No. 75584

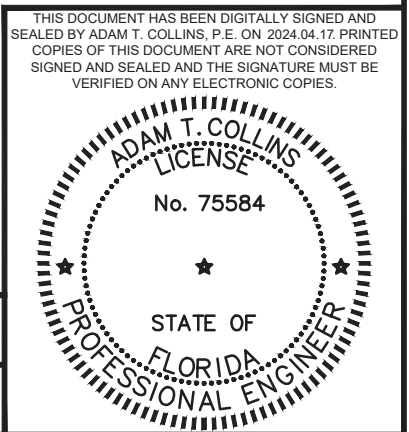
STATE OF FLORIDA

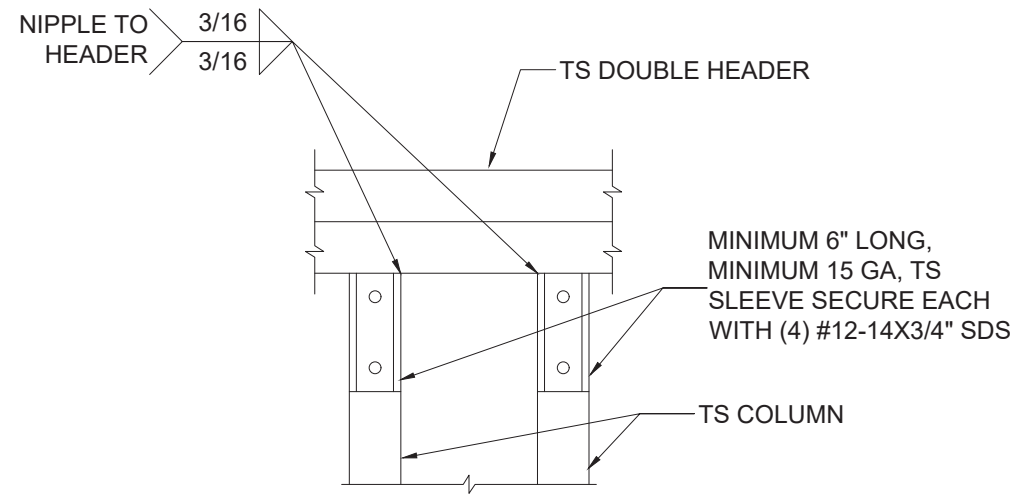
PROFESSIONAL ENGINEER

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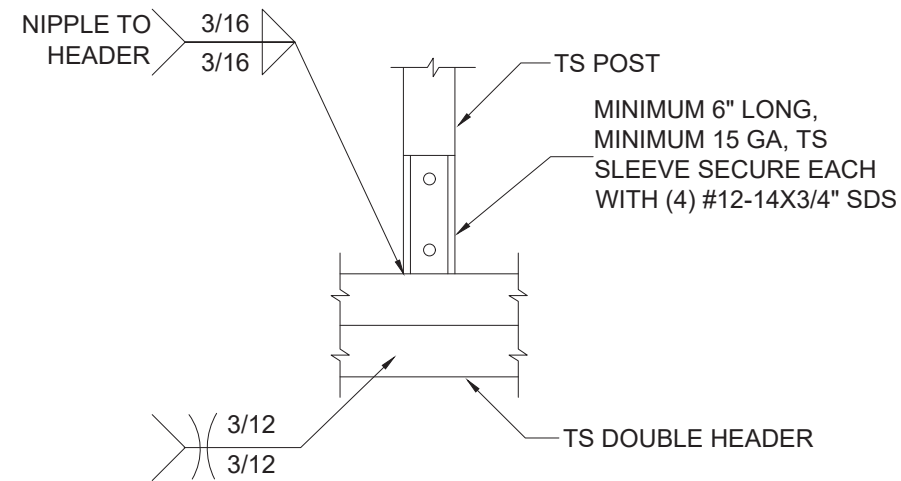


NO.	REVISIONS	DATE	DATE	2024.04.17	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 <b>ADAM COLLINS</b> ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINESS.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (2 OF 4)	Alan Rudd 1002 SW daisy Rd Lake city, FL 32024	S-6
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

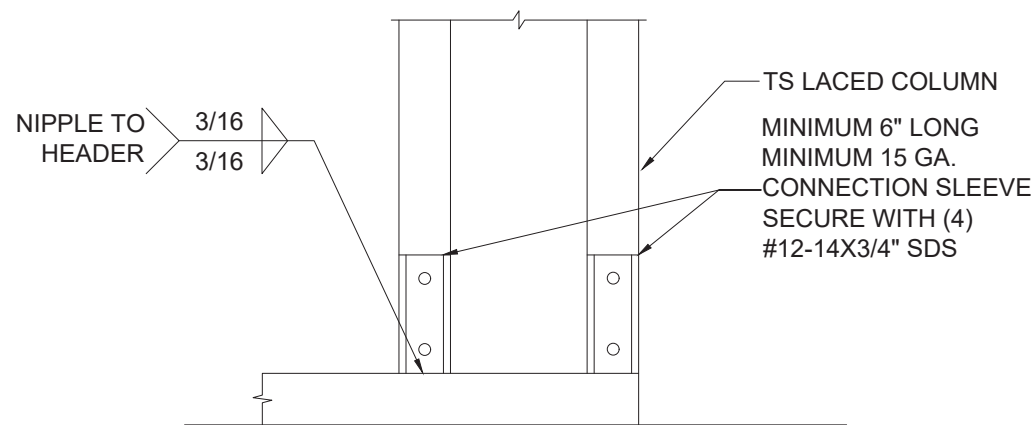




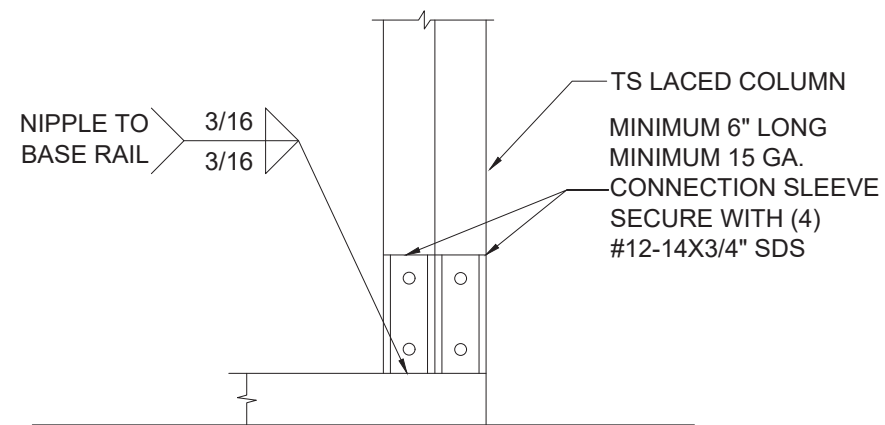
11 DOUBLE HEADER TO POST CONNECTION  
SCALE: NTS



12 POST/DOUBLE HEADER CONNECTION  
SCALE: NTS



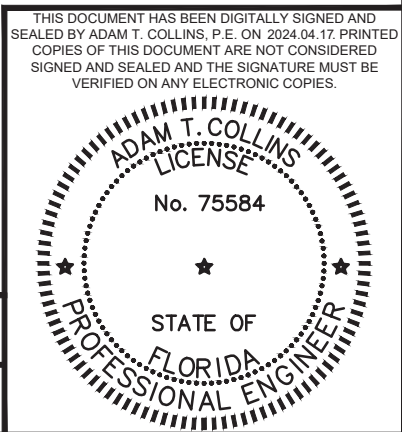
13A POST/BASE RAIL CONNECTION  
SCALE: NTS

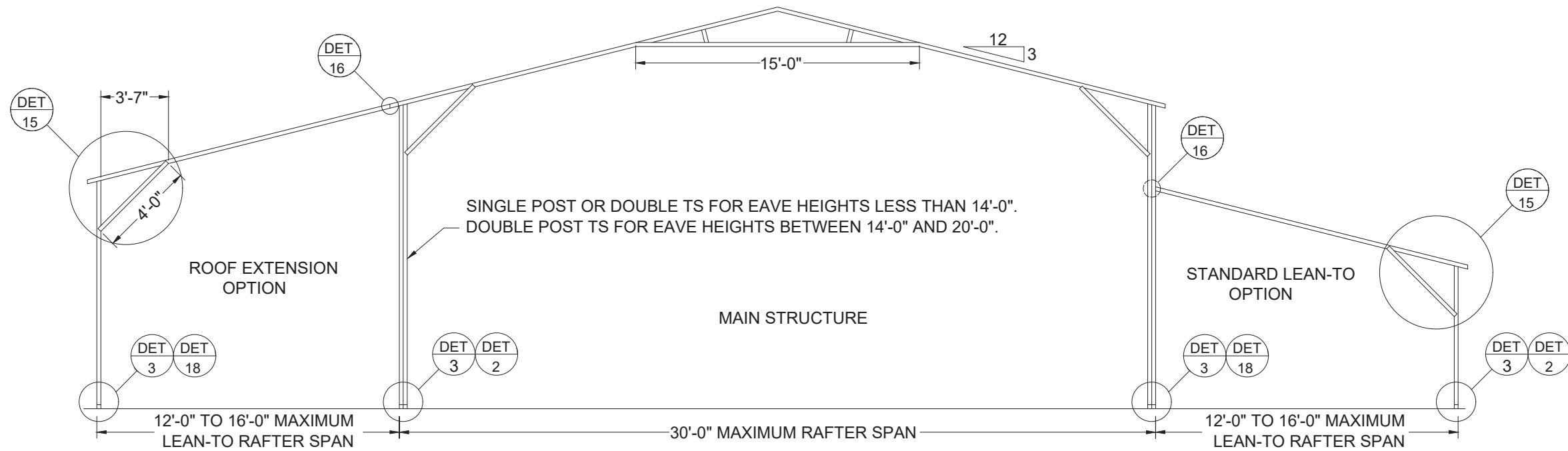


13B POST/BASE RAIL CONNECTION  
SCALE: NTS

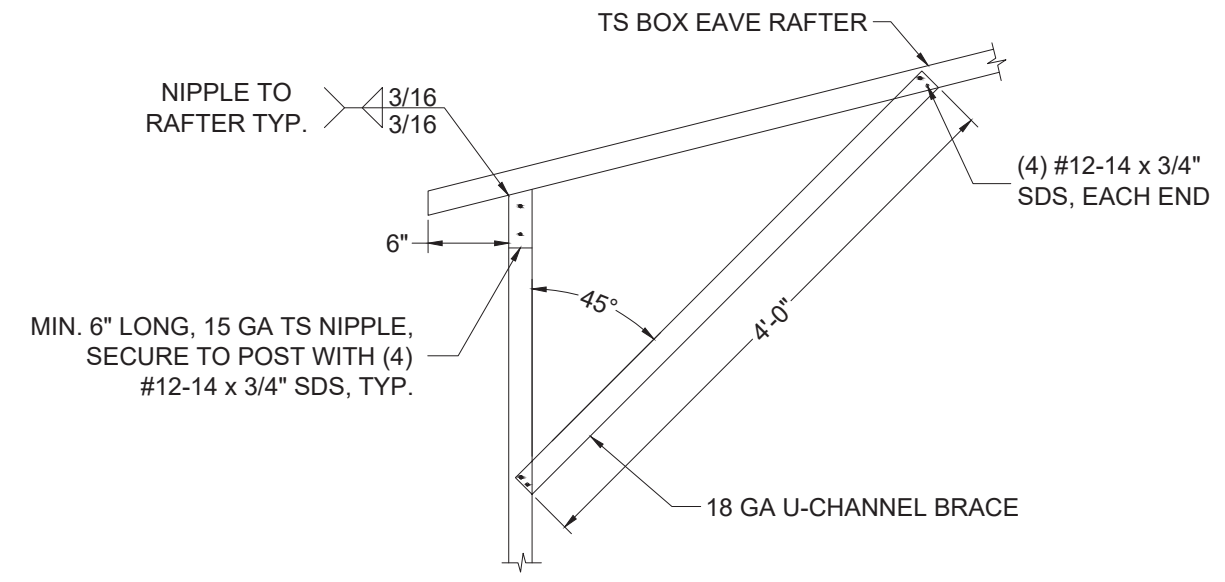
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NO.	REVISIONS	DATE	DATE	2024.04.17	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			<div>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM</div> <div><div>AC</div>ADAM COLLINS</div> ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (3 OF 4)	Alan Rudd 1002 SW daisy Rd Lake city, FL 32024	S-7
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							





**TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION**  
SCALE: NTS

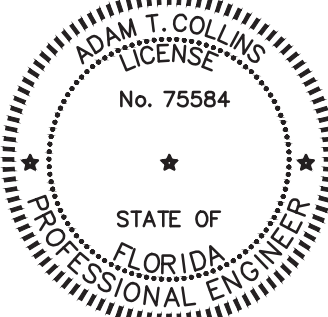


**LEAN-TO RAFTER/CORNER POST CONNECTION**  
SCALE: NTS

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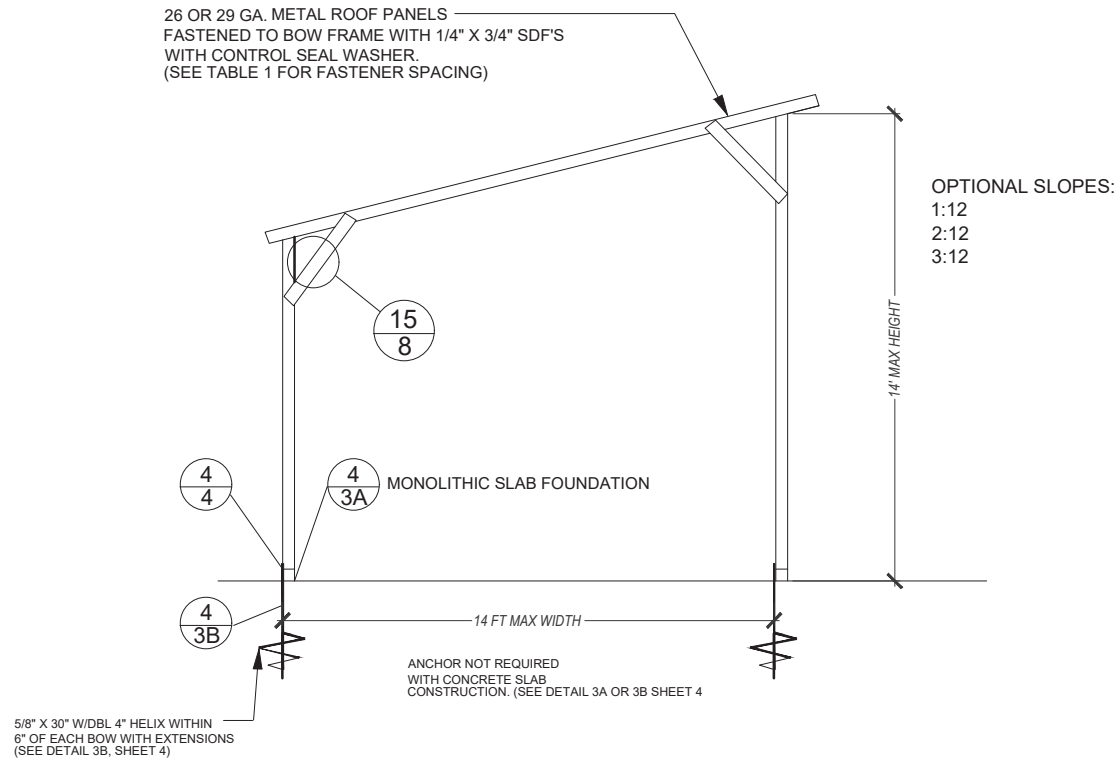
NO.	REVISIONS	DATE	DATE	2024.04.17	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 <b>ADAM COLLINS</b> ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX EAVE RAFTER LEAN TO OPTIONS	Alan Rudd 1002 SW daisy Rd Lake city, FL 32024	S-8
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

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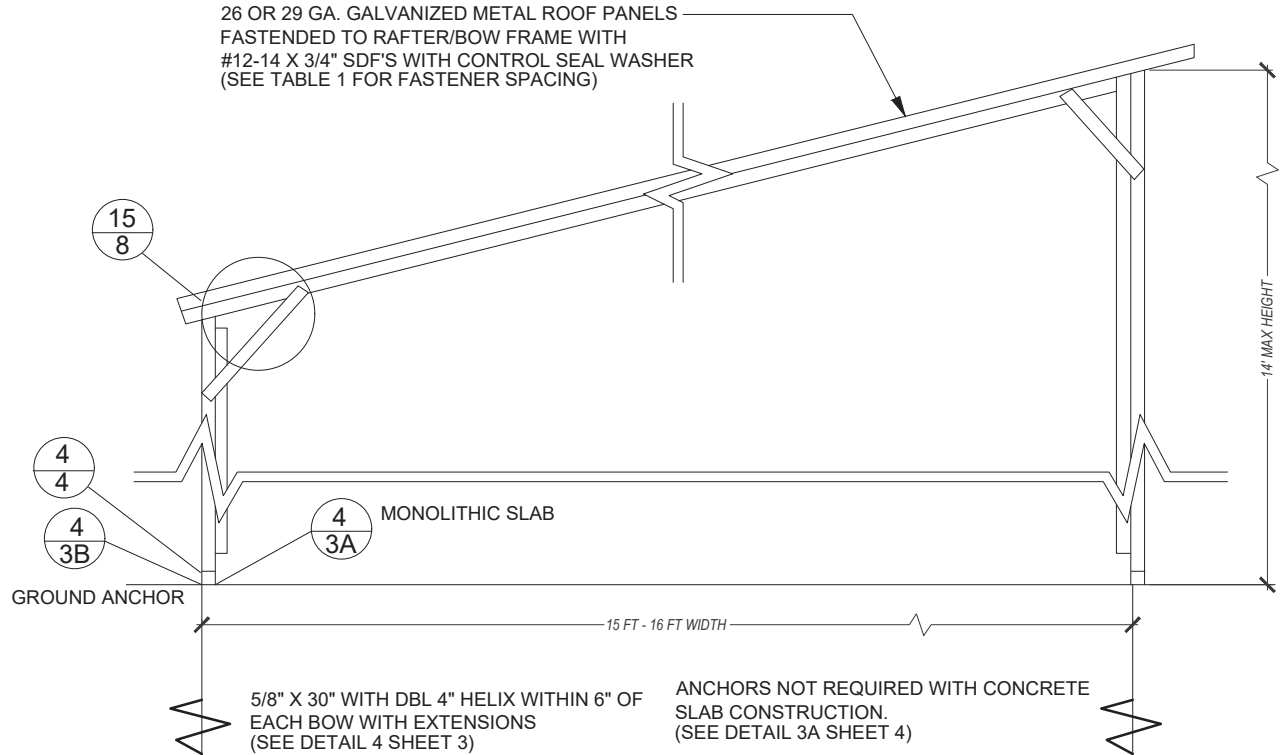




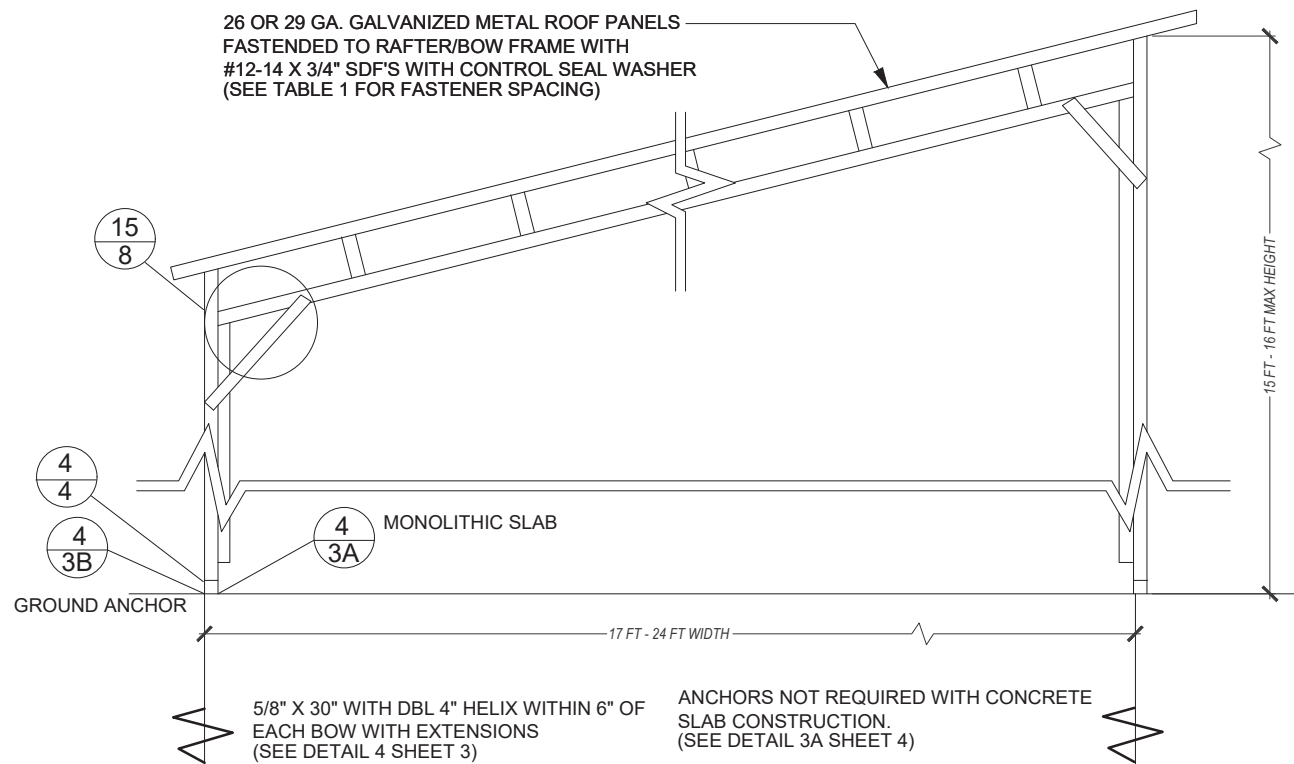
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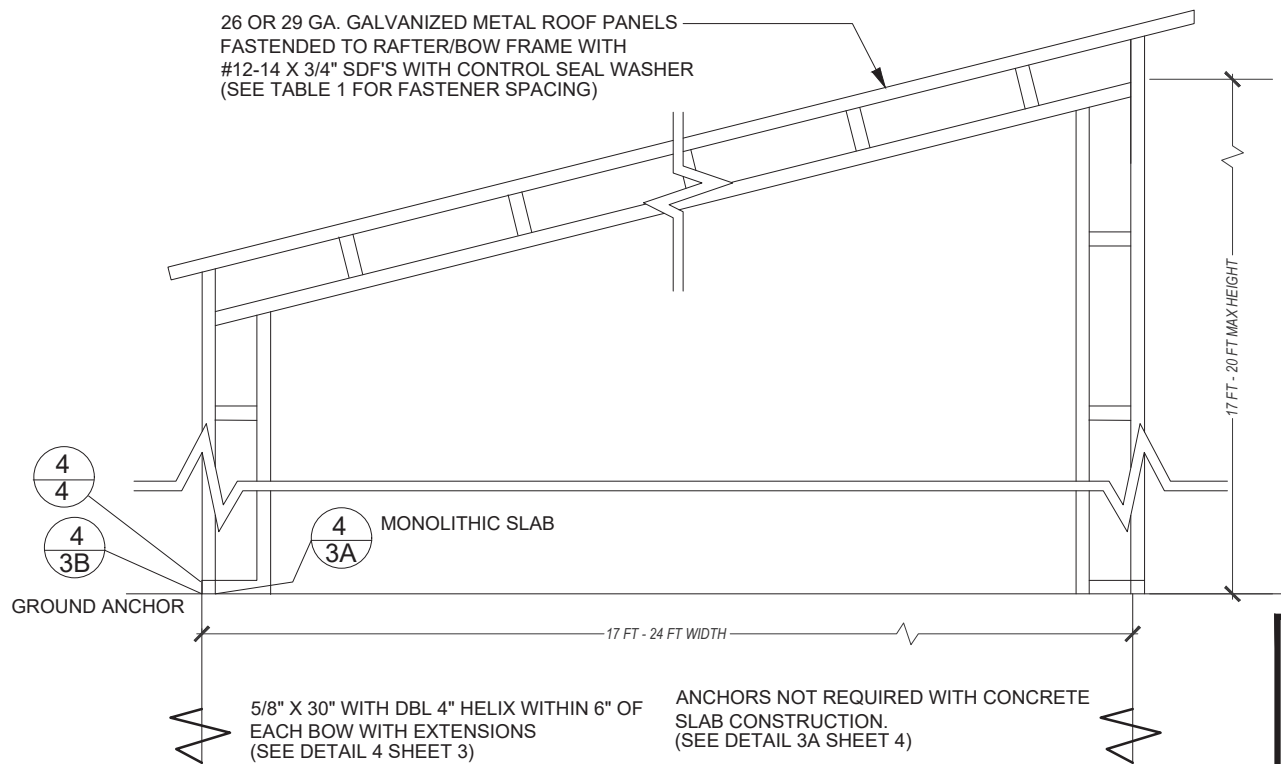
**14 FT MAX WIDTH FREESTANDING LEAN-TO**  
SCALE: NTS



**15 FT - 16 FT WIDTH FREESTANDING LEAN-TO LEAN-TO**  
SCALE: NTS

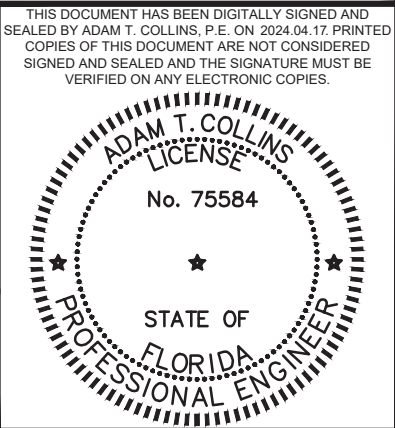


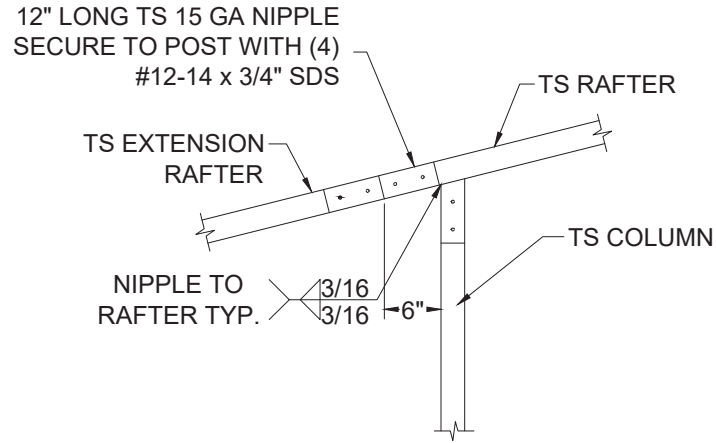
**17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO**  
SCALE: NTS



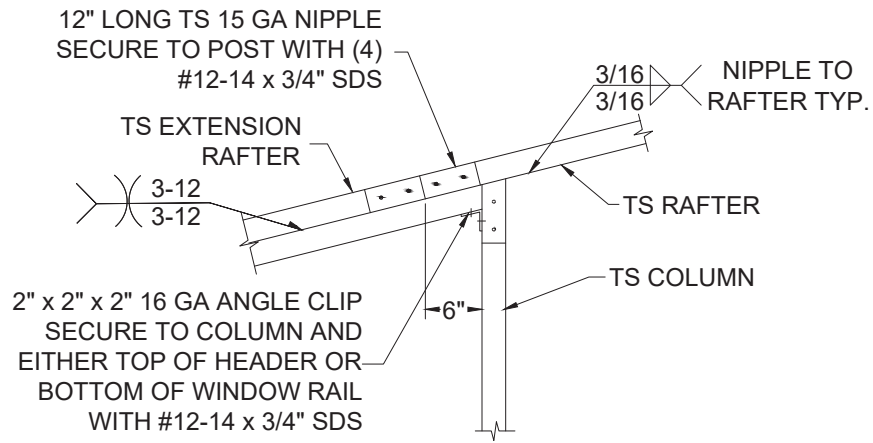
**17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO**  
SCALE: NTS

NO.	REVISIONS	DATE	DATE	BY	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			<div>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM</div> <div>ADAM COLLINS</div> <div>ENGINEERING INC.</div>	ELITE METAL MANUFACTURING 10121 88TH TRACE	FREESTANDING BOX EAVE RAFTER LEAN-TO OPTIONS	Alan Rudd 1002 SW daisy Rd Lake city, FL 32024	S-9
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

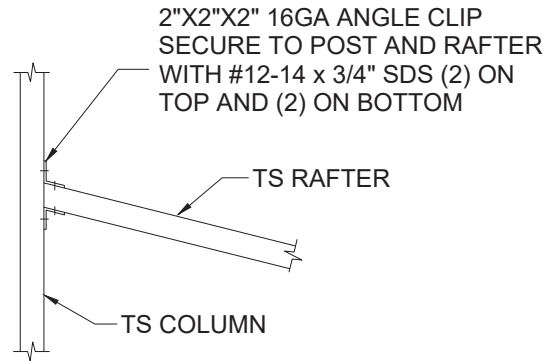




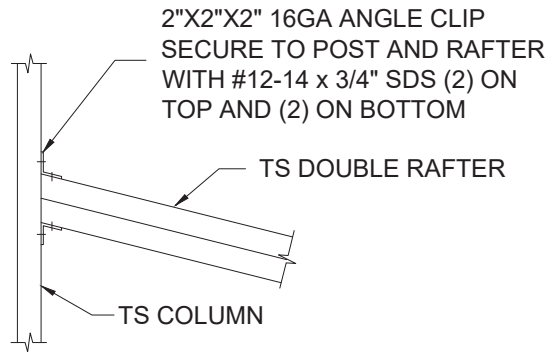
16A SIDE EXTENSION RAFTER/POST CONNECTION  
RAFTER SPAN LESS THAN 12'-0"  
SCALE: NTS



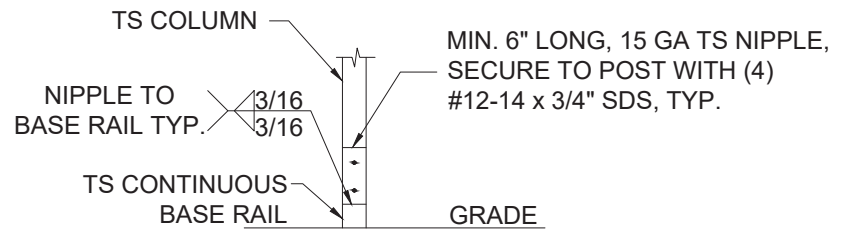
16B SIDE EXTENSION RAFTER/POST CONNECTION  
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"  
SCALE: NTS



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



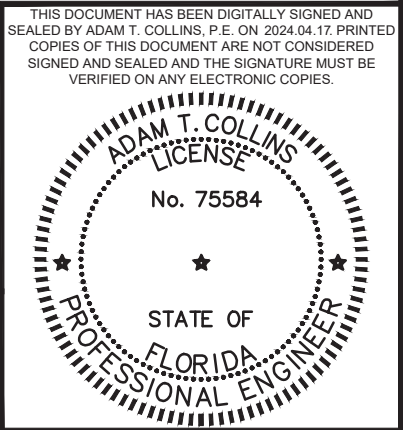
17B LEAN TO RAFTER/COLUMN CONNECTION  
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"  
SCALE: NTS



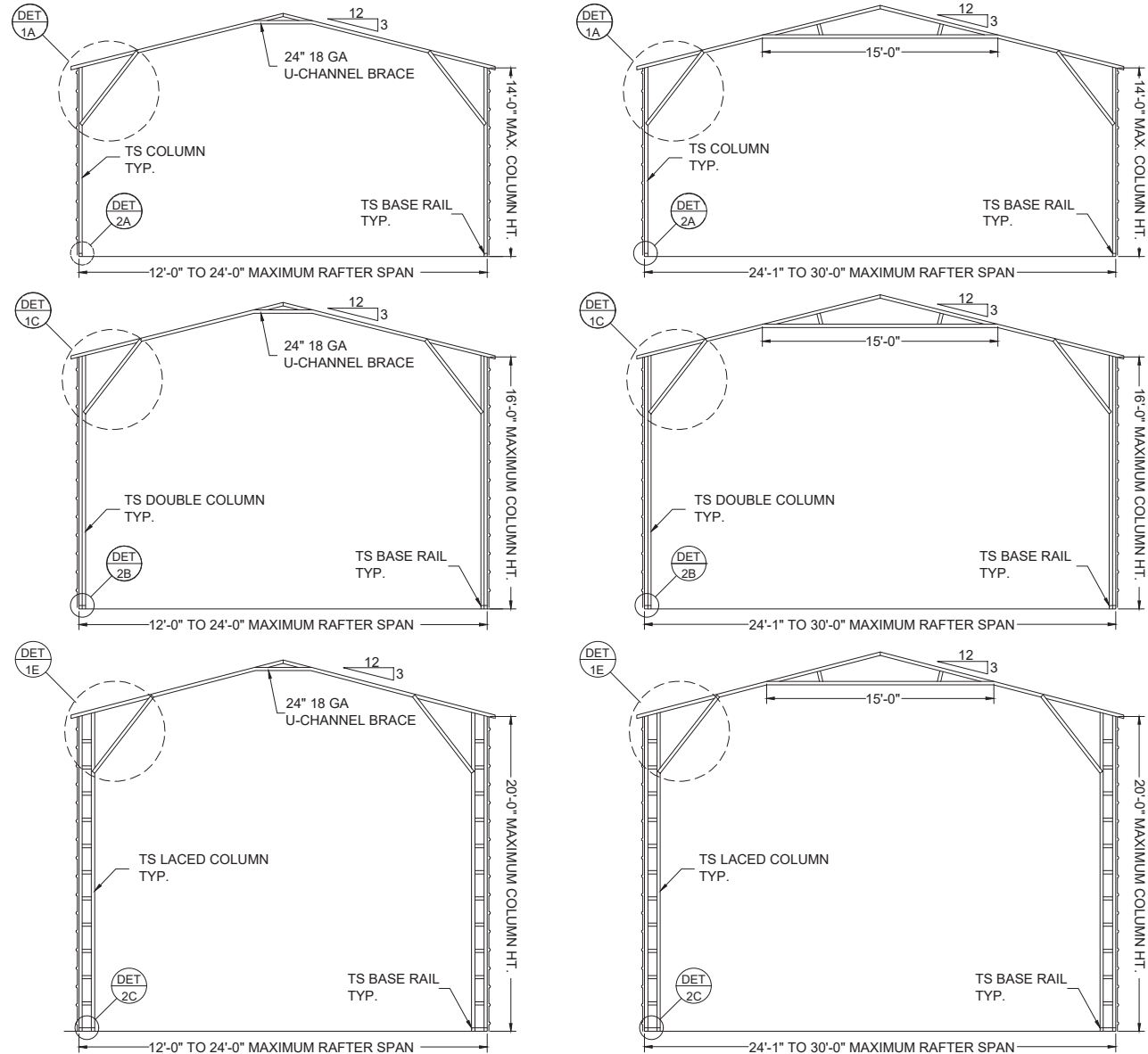
18 LEAN-TO POST CONNECTION  
SCALE: NTS

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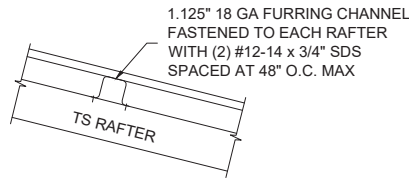
NO.	REVISIONS	DATE	DATE	2024.04.17	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 <b>ADAM COLLINS</b> ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINESENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (4 OF 4)	Alan Rudd 1002 SW daisy Rd Lake city, FL 32024	S-10
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							



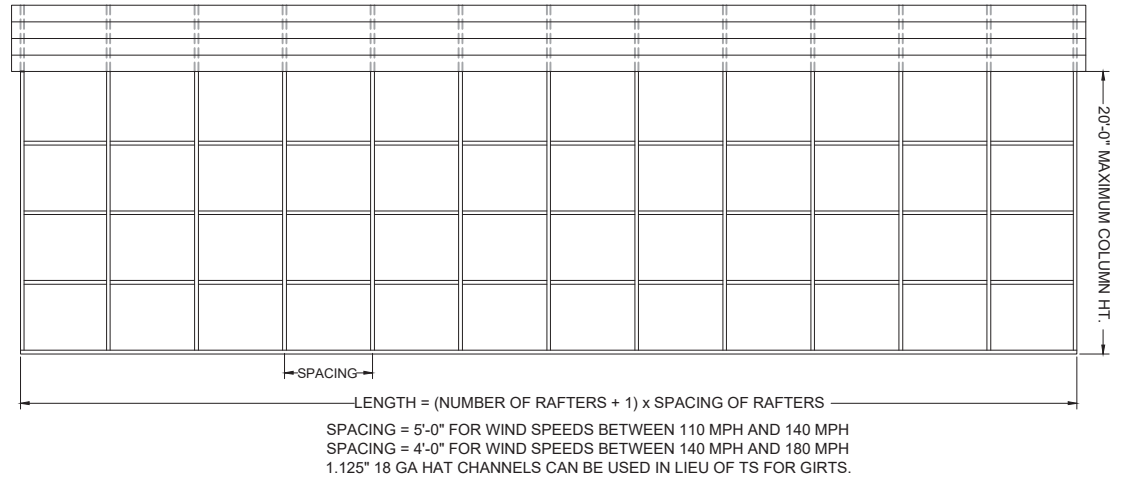
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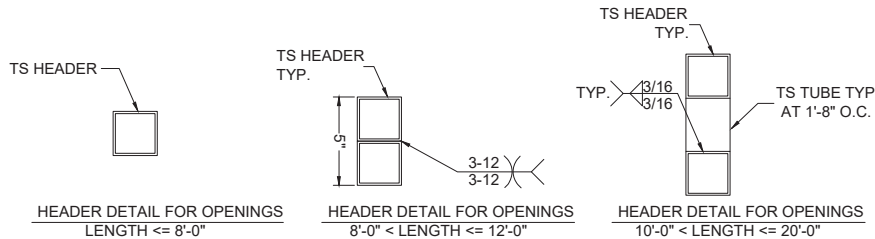
**BOX EAVE FRAME**  
SCALE: NTS



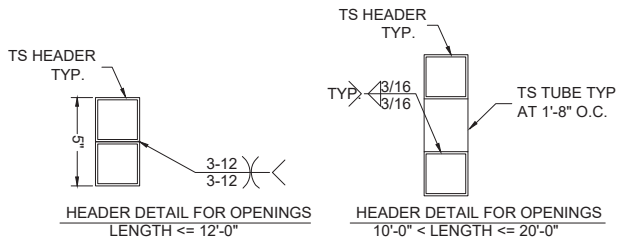
**PANEL ATTACHMENT**  
(ALTERNATE FOR VERTICAL ROOF PANELS)  
SCALE: NTS



**TYPICAL SIDE FRAME SECTION**  
SCALE: NTS

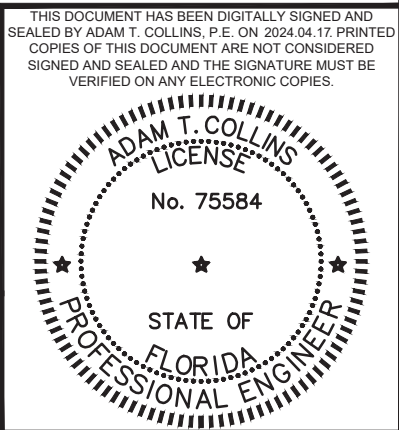


**SIDE WALL OPTION HEADER**  
SCALE: NTS



**END WALL OPTION HEADER**  
SCALE: NTS

NO.	REVISIONS	DATE	DATE	2024.04.17	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 <b>ADAM COLLINS</b> ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX EAVE RAFTER VERTICAL ROOF-SIDING OPTION	Alan Rudd 1002 SW daisy Rd Lake city, FL 32024	S-11
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

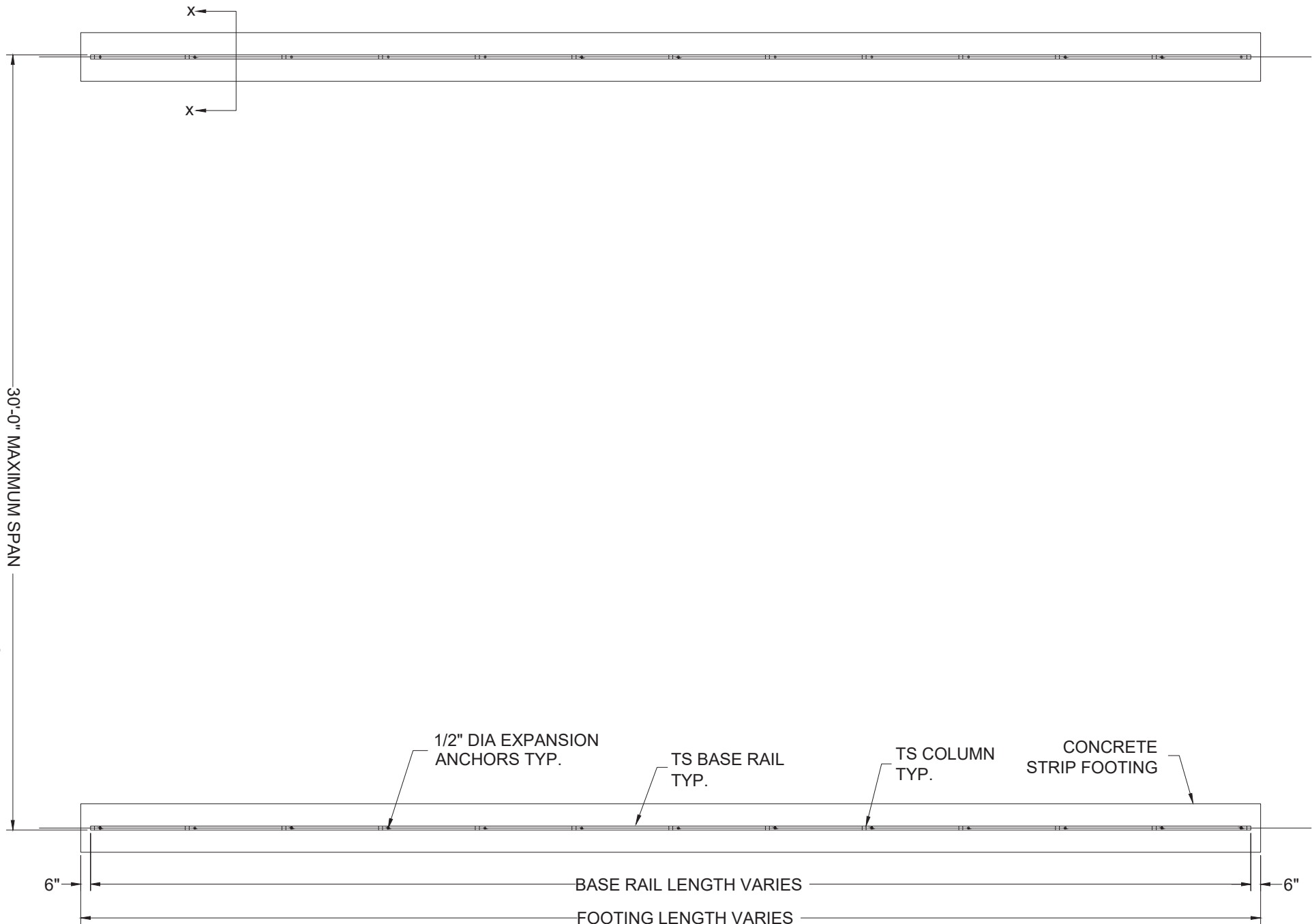
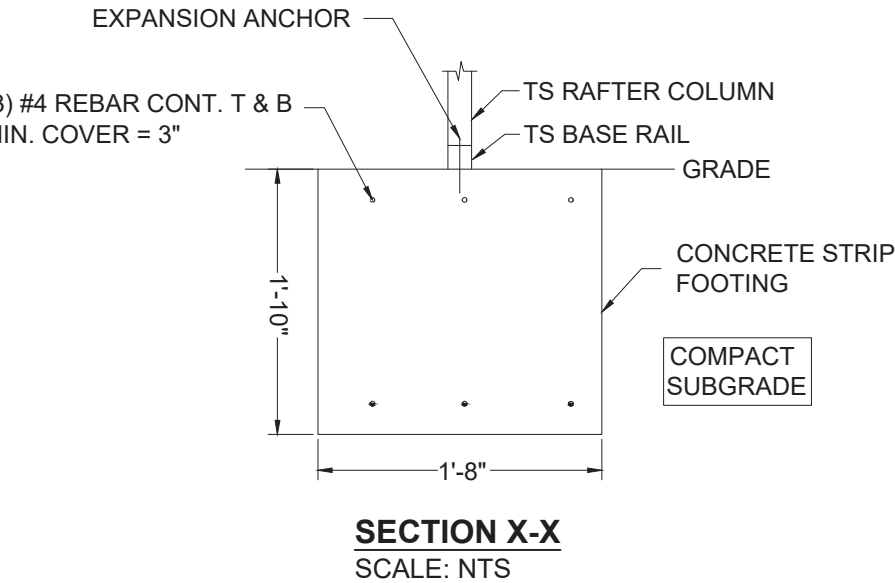


GENERAL NOTES

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.



CONCRETE STRIP FOOTING PLAN  
SCALE: NTS

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No. 75584

STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

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NO.	REVISIONS	DATE	DATE	2024.04.17	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			<div>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM</div> <div>ADAM COLLINS ENGINEERING INC.</div>	ELITE METAL MANUFACTURING 10121 88TH TRACE	OPTIONAL CONCRETE STRIP FOOTING	Alan Rudd 1002 SW daisy Rd Lake city, FL 32024	S-12
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

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

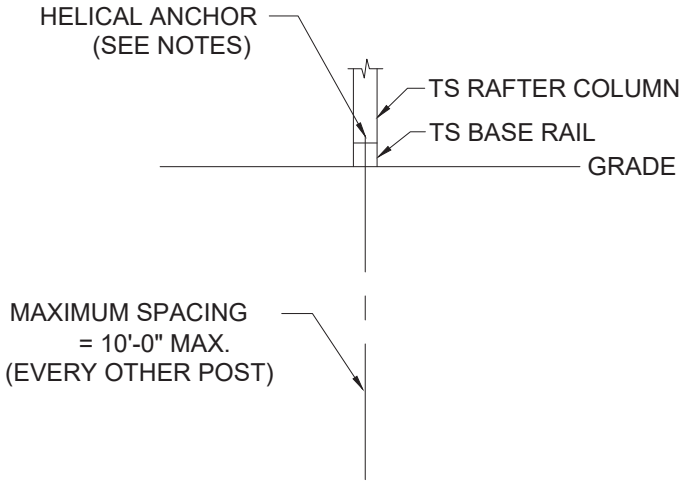
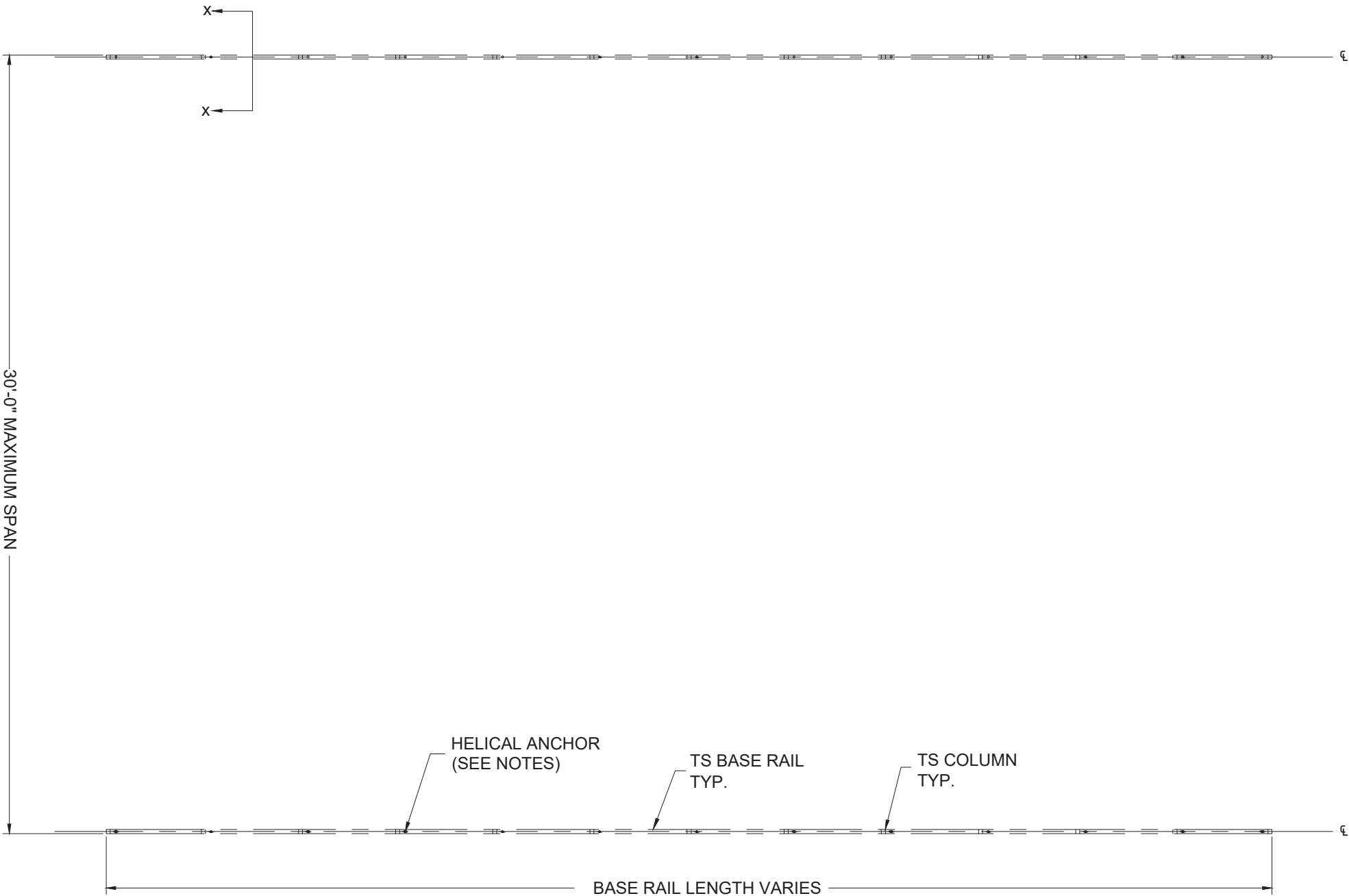
1.8. VERY STIFF SILTS AND CLAYS
2. USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT FOR
- 2.1. LOOSE TO MEDIUM DENSE SANDS

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,



BASE RAIL PLAN  
SCALE: NTS

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NO.	REVISIONS	DATE	DATE	2024.04.17	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			<div>CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM</div> <div>ADAM COLLINS ENGINEERING INC.</div>	ELITE METAL MANUFACTURING 10121 88TH TRACE	OPTIONAL HELICAL ANCHORING DETAIL	Alan Rudd 1002 SW daisy Rd Lake city, FL 32024	S-13
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							