

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

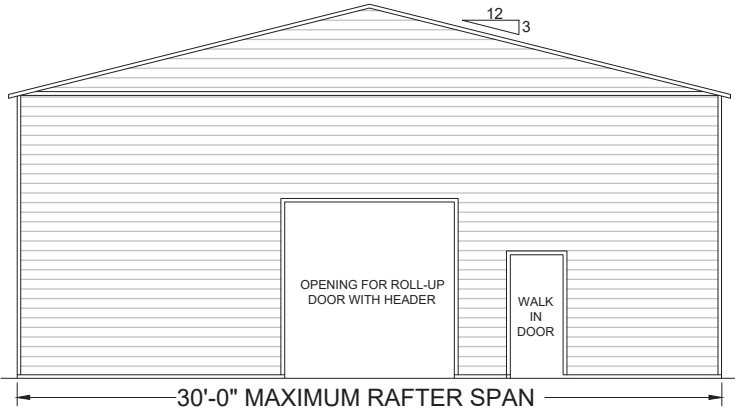
INSTALLATION NOTES AND SPECIFICATIONS

- 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.

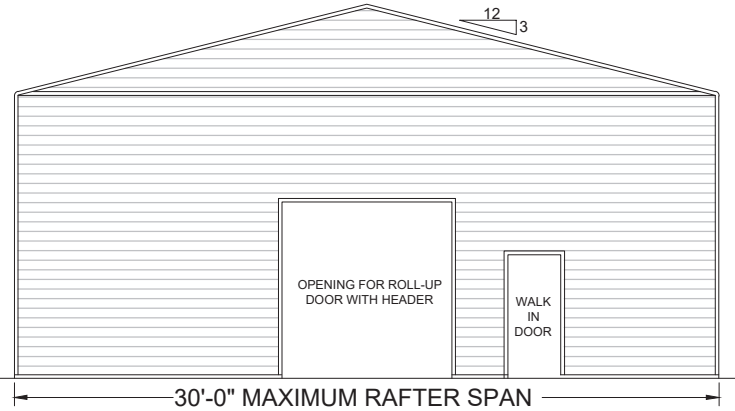
DESIGN LOADS

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

ENCLOSED METAL BUILDING DESIGN
24FT WIDE X 40FT LONG X 12FT EAVE HT.
LEAN-TO 12FT WIDE X 40FT LONG X 9FT EAVE HT.



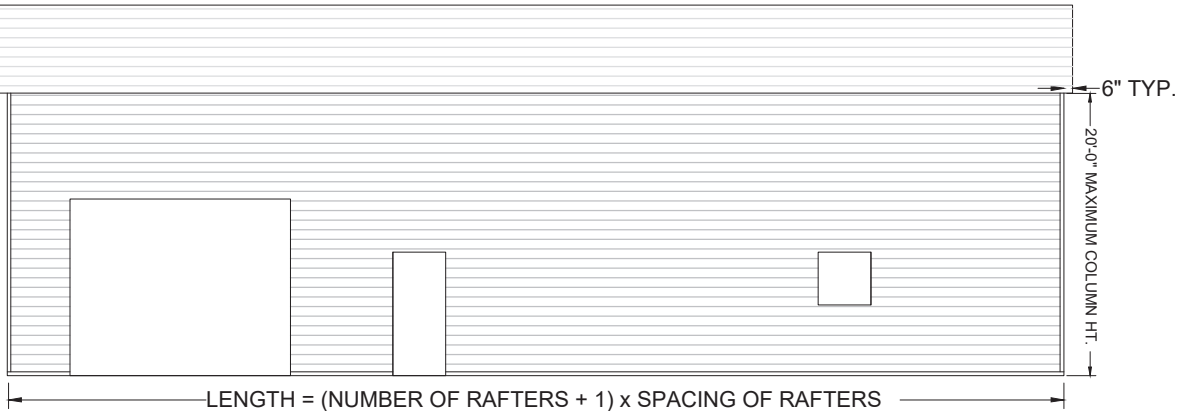
TYPICAL ELEVATION - BOX EAVE
SCALE: NTS



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

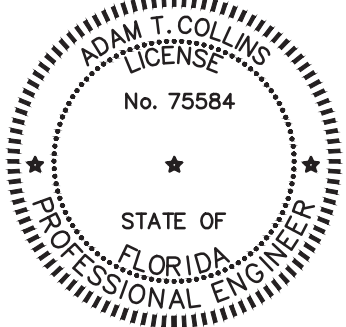
PAGE NO.	DESCRIPTION
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S-2	BOX-BOW EAVE FRAME RAFTER ENCLOSED BUILDING
S-3	CONNECTION DETAILS (1 OF 4)
S-4	BASE RAIL AND ANCHORAGE DETAILS
S-5	BOX EAVE RAFTER END WALL, SIDE WALL AND OPENING FRAMING
S-6	CONNECTION DETAILS (2 OF 4)
S-7	CONNECTION DETAILS (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)
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S-12	OPTIONAL CONCRETE STRIP FOOTING
S-13	OPTIONAL HELICAL ANCHORING DETAIL

TABLE 1		
MEMBER	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.

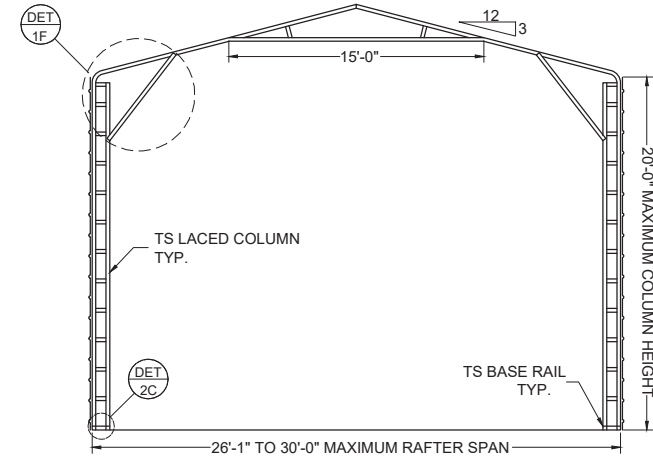
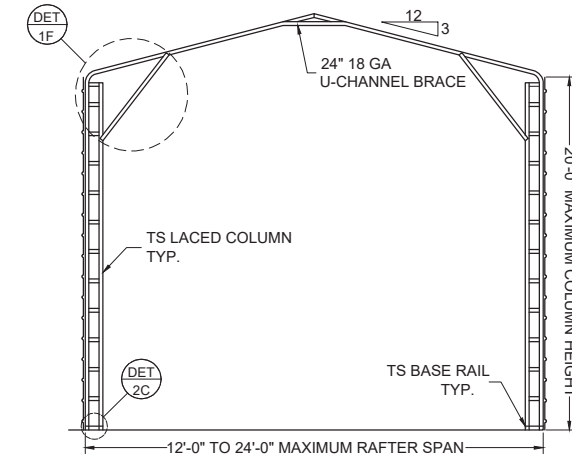
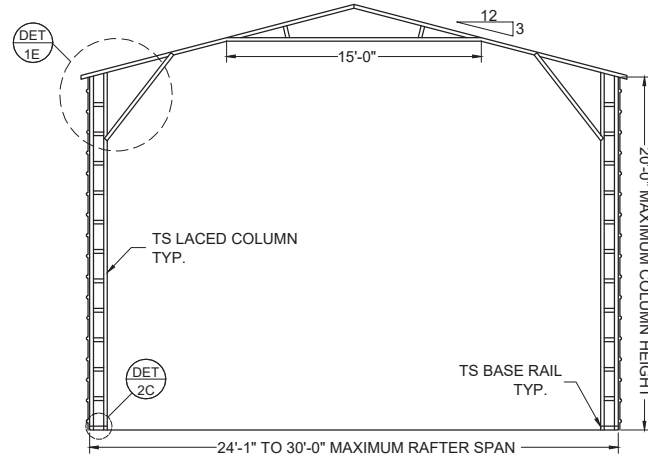
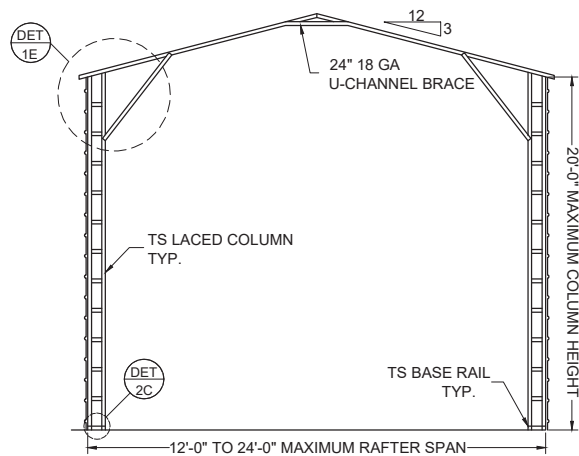
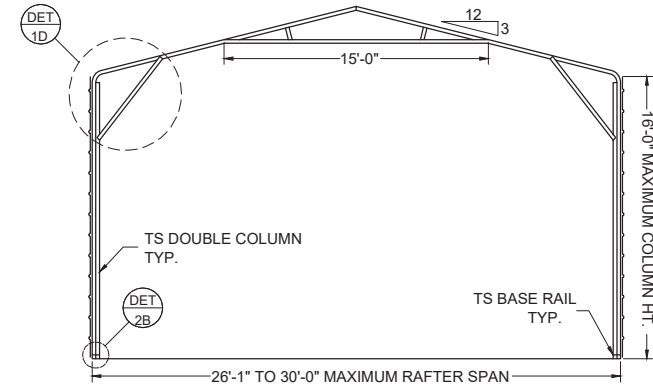
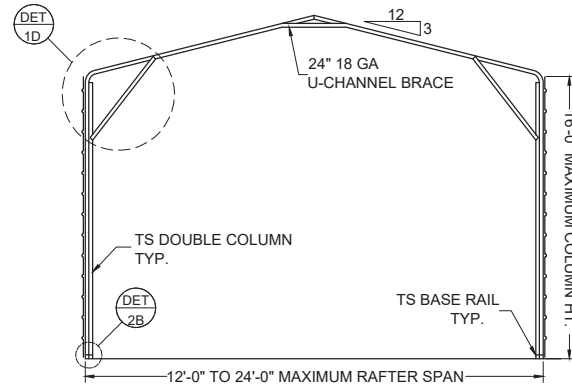
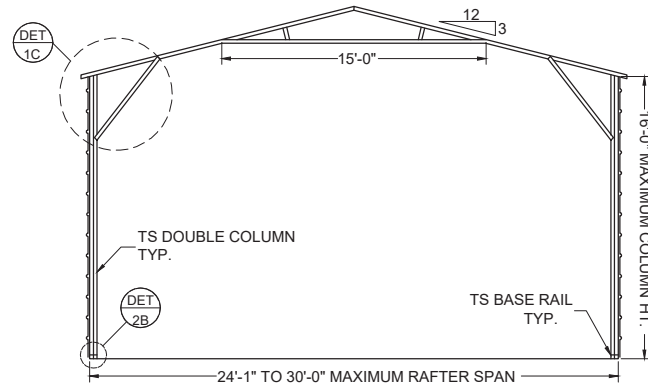
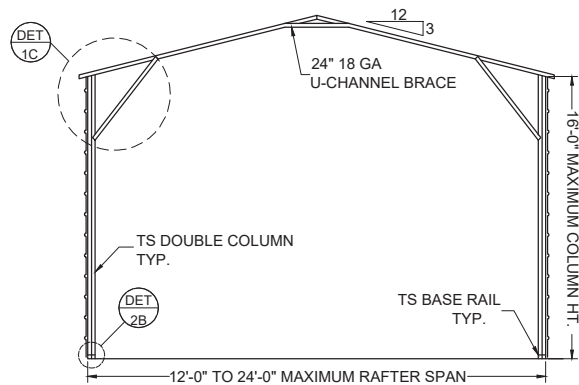
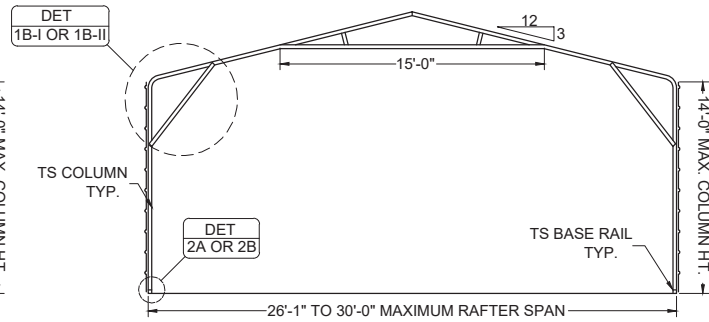
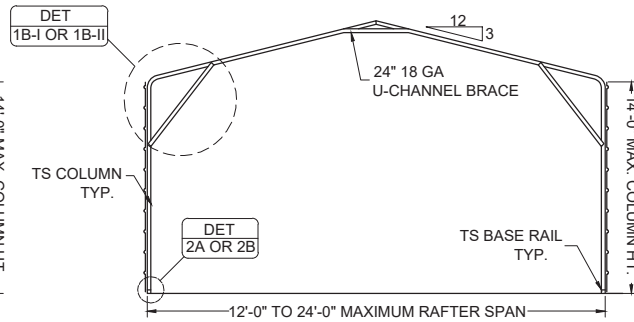
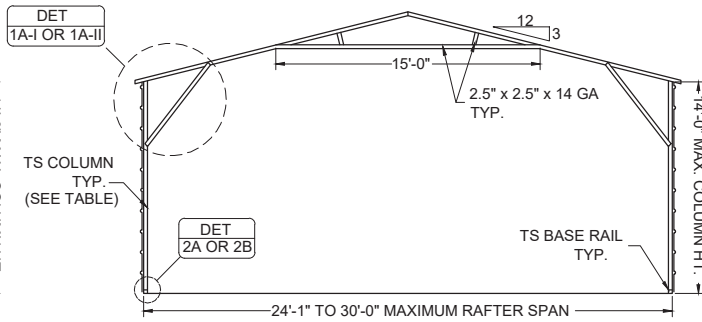
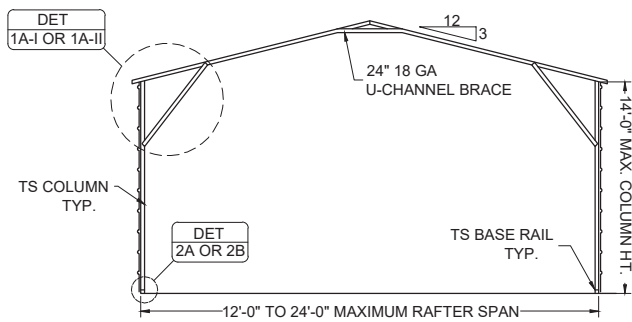
PLANS PREPARED BY:
ADAM COLLINS
ENGINEERING INC.
12558 BASS ROAD, LIVE OAK, FLORIDA 32060
P:386.320.7400 F: 850.807.7309
WWW.COLLINSENG.COM
CERTIFICATE OF AUTHORIZATION: 31728

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			DRAWN	SM			ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	NOTES AND SPECIFICATIONS	Austin Reiter 228 SW Fritz Glen Lake City, FL 32024	S-1
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

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BOX EAVE FRAME

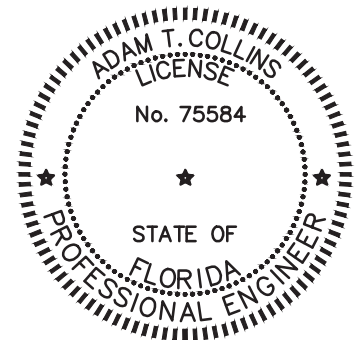
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BOW EAVE FRAME

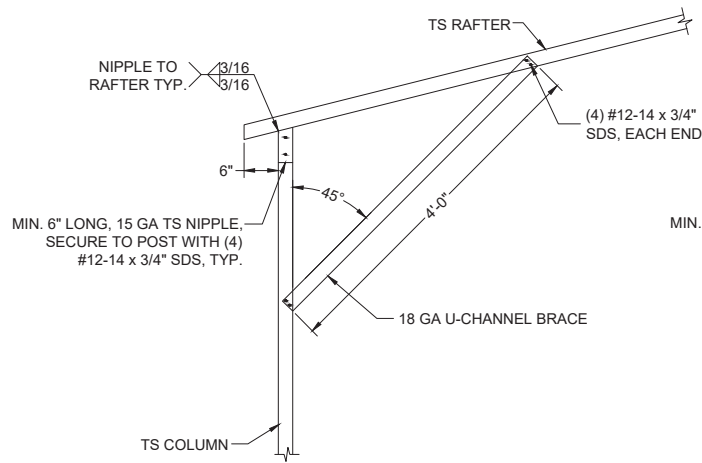
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			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

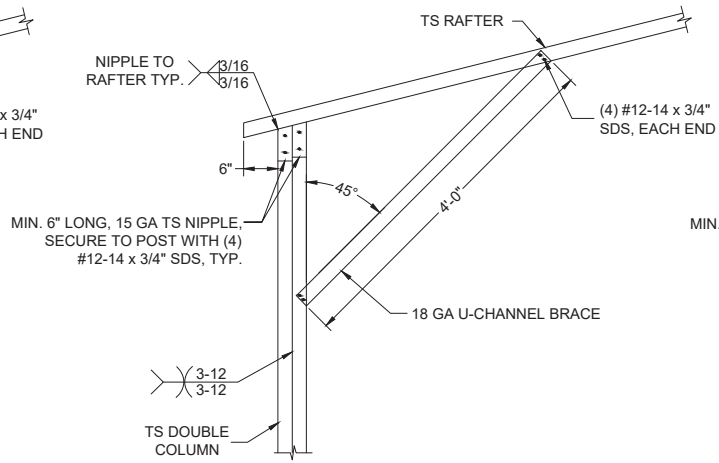
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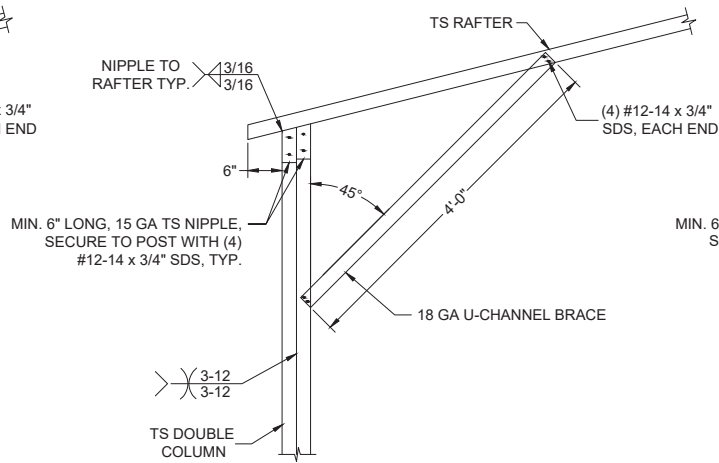
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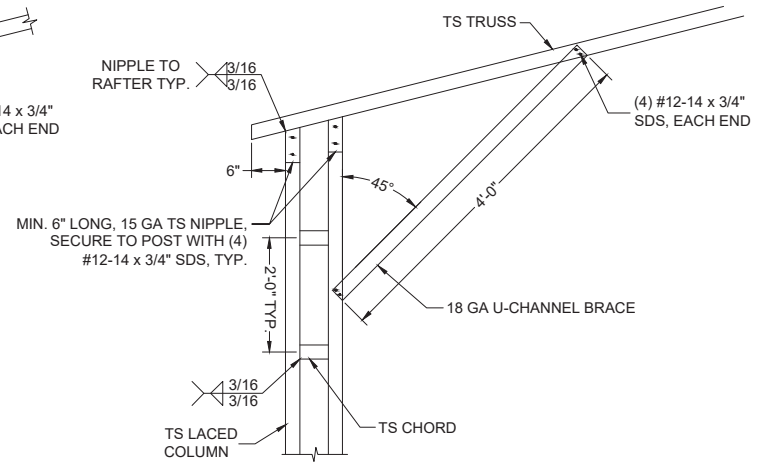
1A-I BOX EAVE RAFTER/CORNER POST
CONNECTION 30'(MAX.)W x 14'H
SCALE: NTS



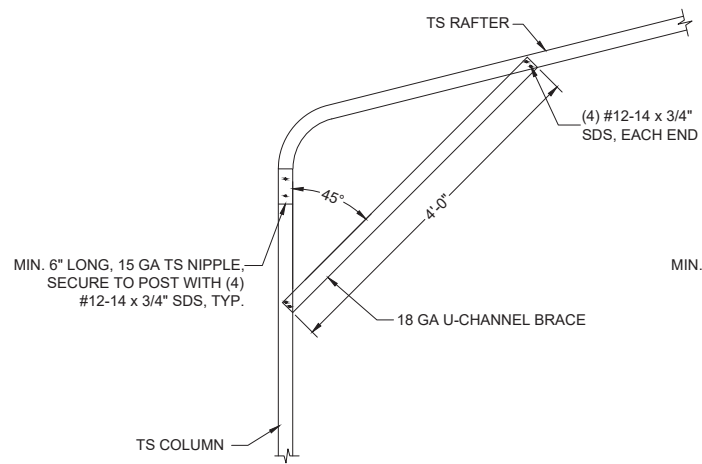
1A-II BOX EAVE RAFTER/CORNER POST
CONNECTION 30'(MAX.)W x 14'H
SCALE: NTS



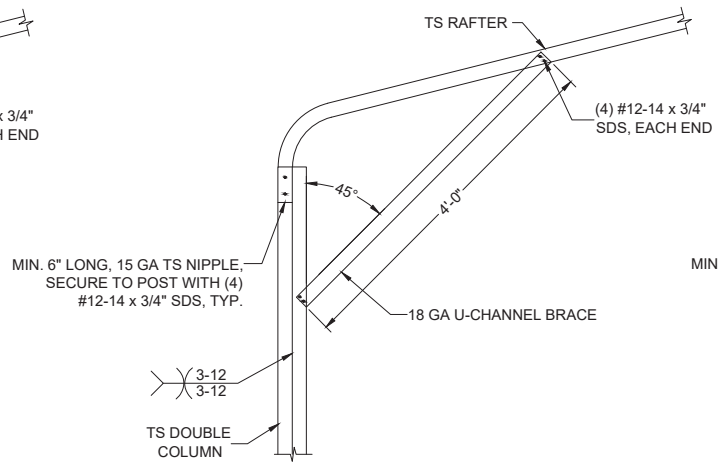
1C BOX EAVE RAFTER/CORNER POST
CONNECTION 30'(MAX.)W x 16'H
SCALE: NTS



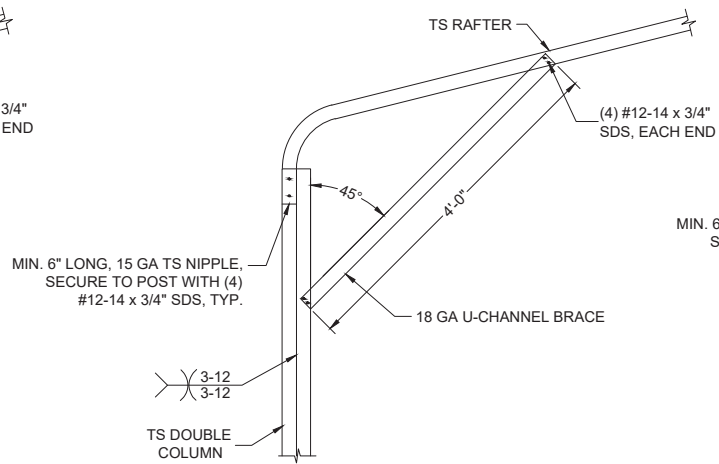
1E BOX EAVE RAFTER/CORNER POST
CONNECTION 30'(MAX.)W x 20'H
SCALE: NTS



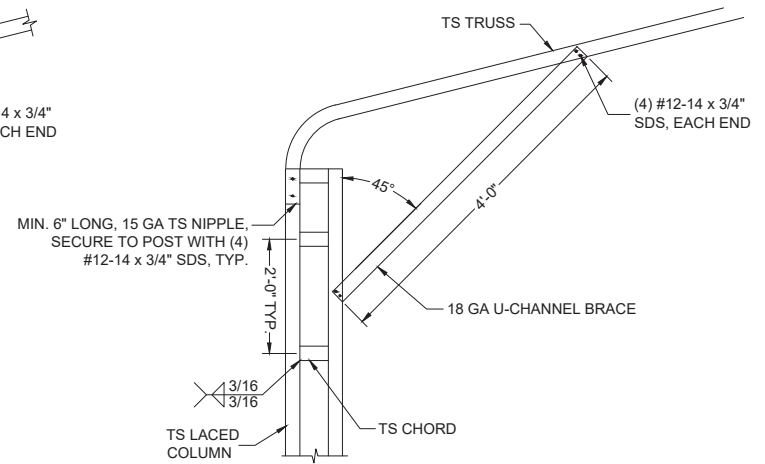
1B-I BOW EAVE RAFTER/CORNER POST
CONNECTION 30'(MAX.)W x 14'H
SCALE: NTS



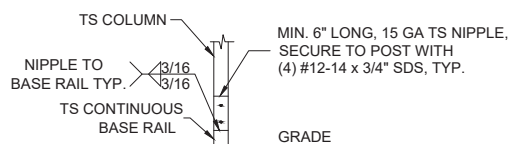
1B-II BOW EAVE RAFTER/CORNER POST
CONNECTION 30'(MAX.)W x 14'H
SCALE: NTS



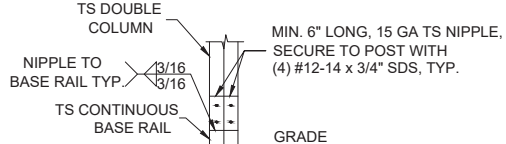
1D BOW EAVE RAFTER/CORNER POST
CONNECTION 30'(MAX.)W x 16'H
SCALE: NTS



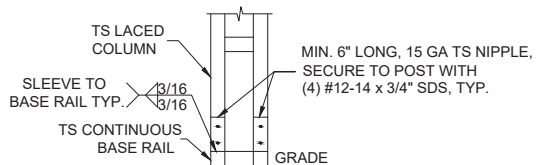
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CONNECTION 30'(MAX.)W x 20'H
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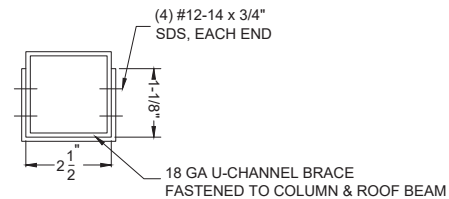
2A POST/BASE RAIL CONNECTION
SCALE: NTS



2B POST/BASE RAIL CONNECTION
SCALE: NTS

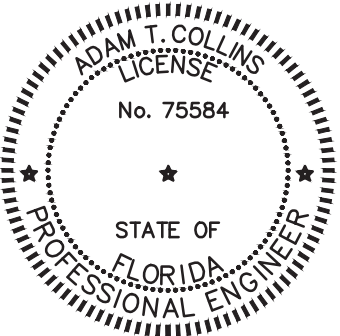


2C POST/BASE RAIL CONNECTION
SCALE: NTS



BRACE SECTION
SCALE: NTS

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

GENERAL NOTES

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

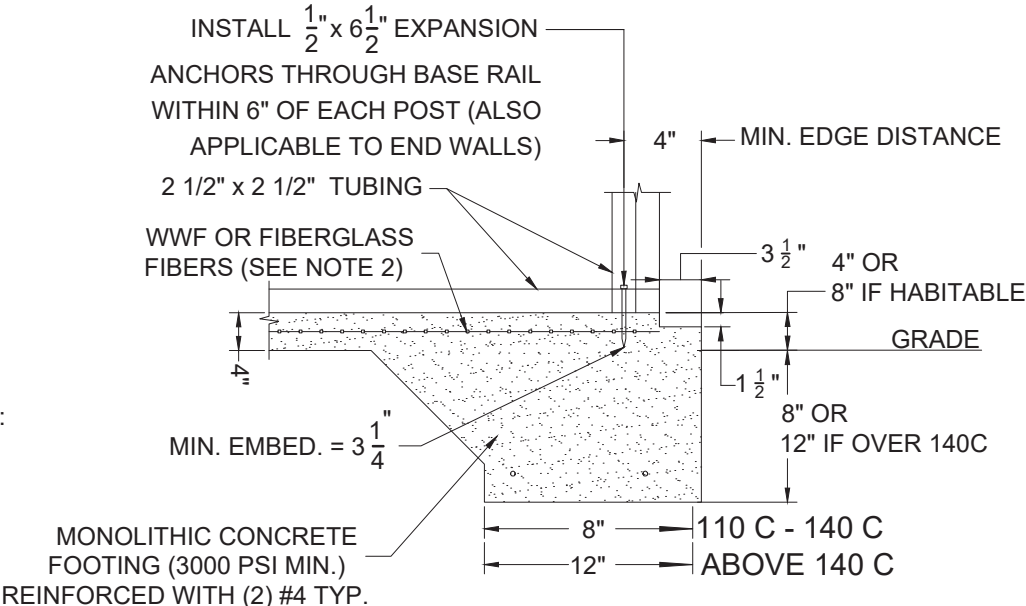
REINFORCING STEEL

- 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.

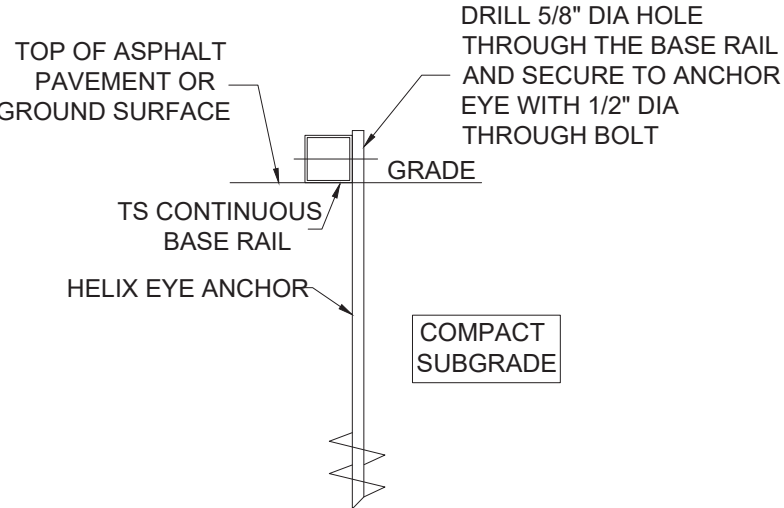
HELIX ANCHOR NOTES

- 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,

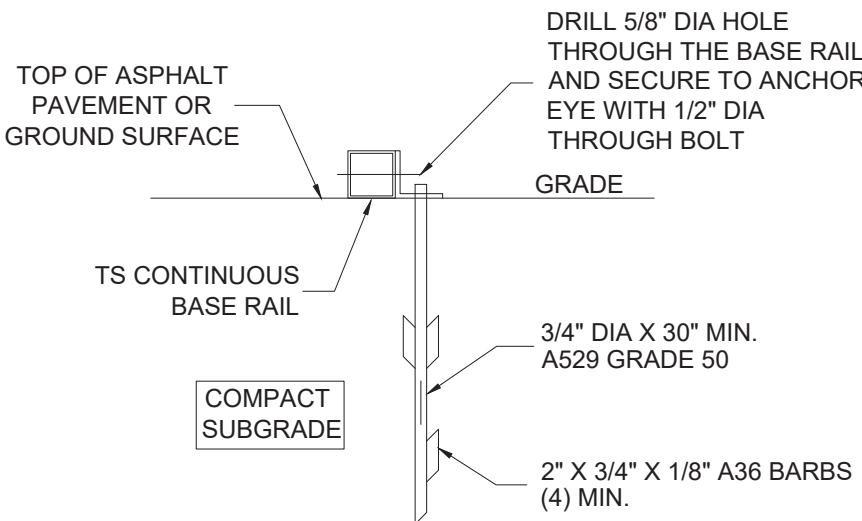
MONOLITHIC FOOTER SIZE	
110 C - 140 C	8" x 12" - (2) #4
ABOVE 140 C	12" x 16" - (2) #4



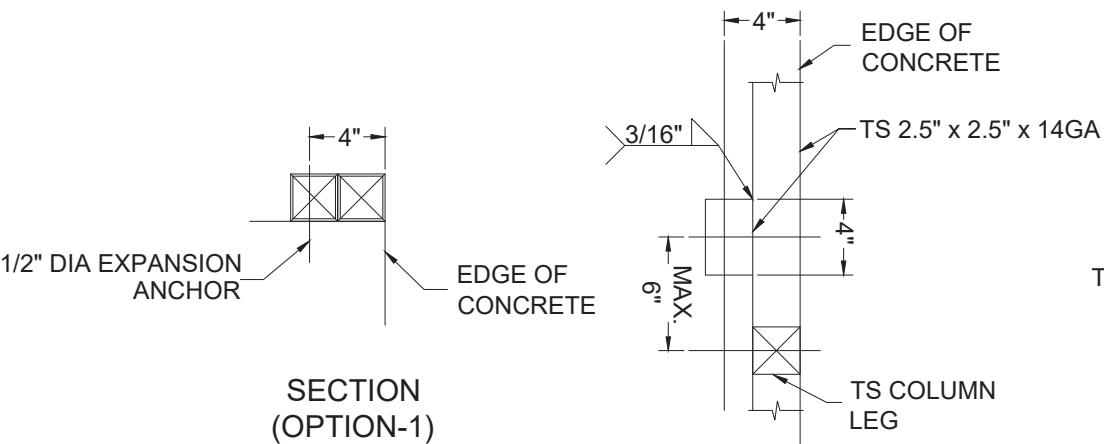
3A CONCRETE MONOLITHIC SLAB
BASE RAIL ANCHORAGE
SCALE: NTS



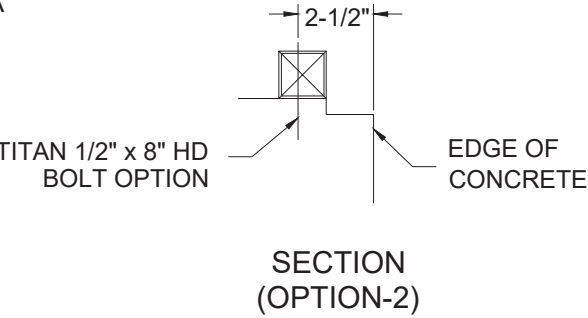
3B GROUND BASE HELIX ANCHORAGE
SCALE: NTS



3C ASPHALT BASE ANCHORAGE
(HP 9 BARBED DRIVE ANCHOR)
SCALE: NTS



TOP VIEW (OPTION-1)
TYPICAL ANCHOR DETAIL WHEN BASE
RAIL IS NEAR EDGE OF CONCRETE
SCALE: NTS



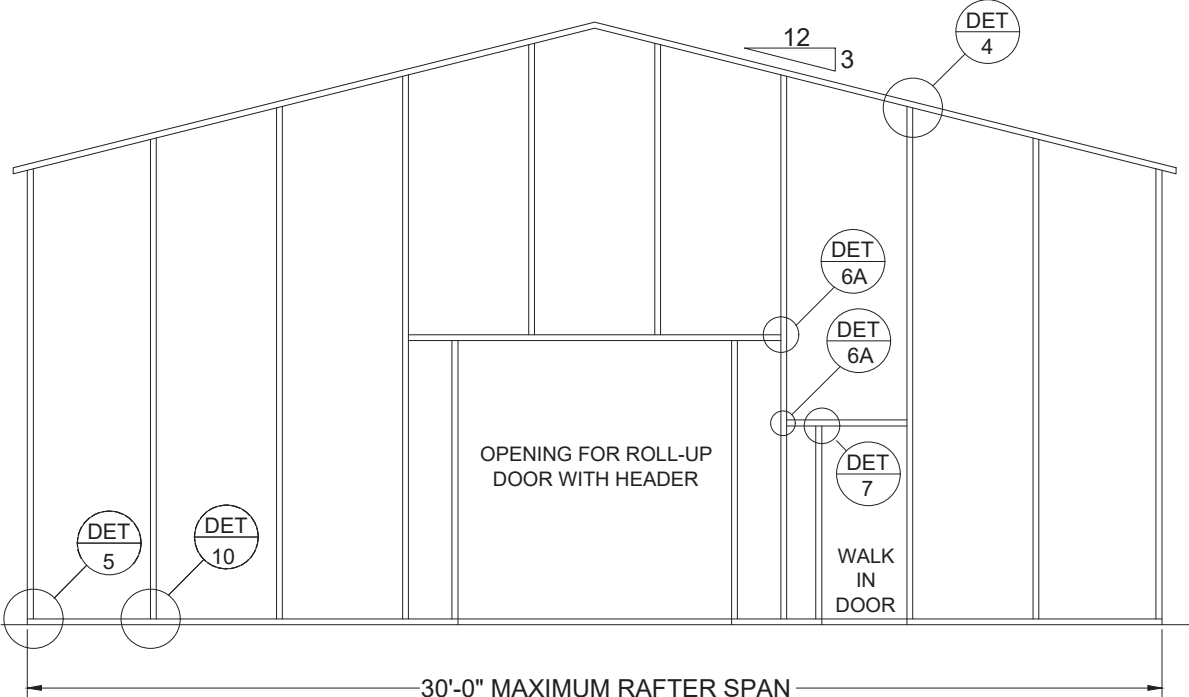
SECTION (OPTION-2)

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

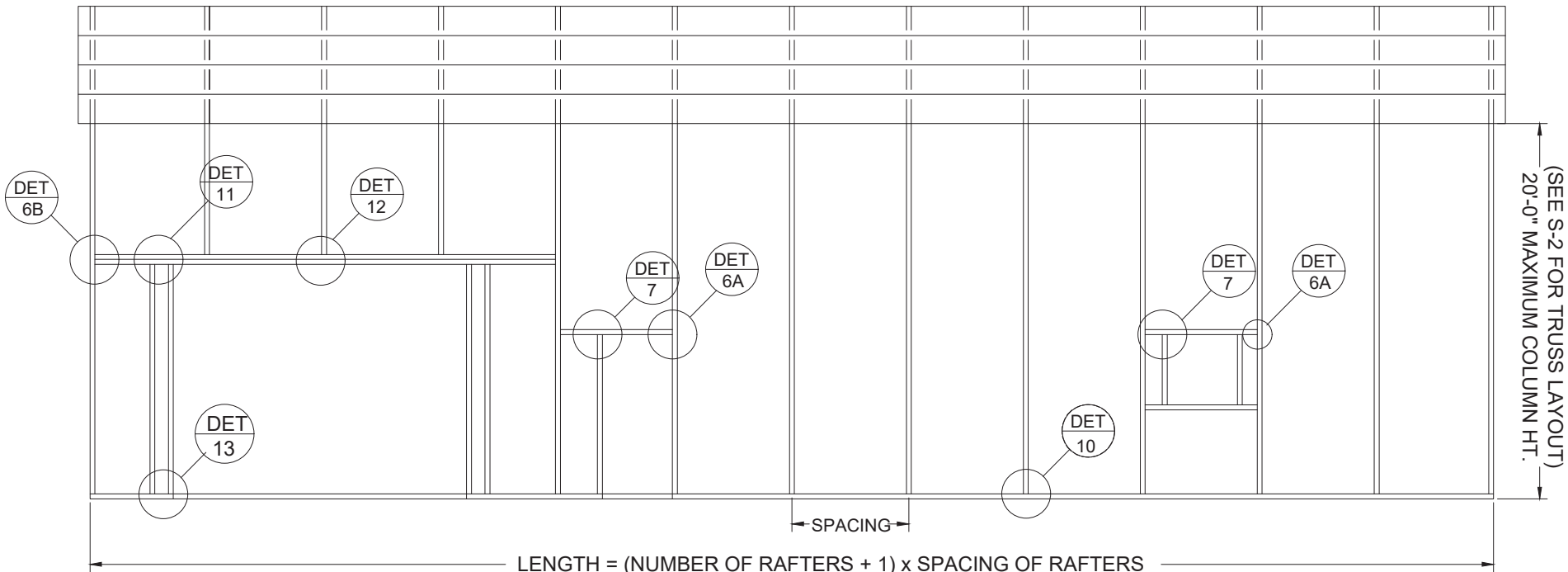
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ADAM T. COLLINS
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No. 75584
STATE OF
FLORIDA
PROFESSIONAL ENGINEER



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
SCALE: NTS

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			DRAWN	SM			CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM AC ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX EAVE RAFTER END WALL, SIDE WALL AND OPENING FRAMING	Austin Reiter 228 SW Fritz Glen Lake City, FL 32024	S-5
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
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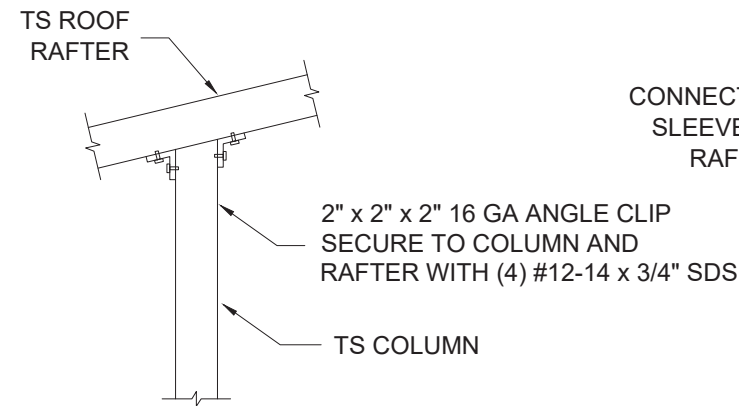
ADAM T. COLLINS

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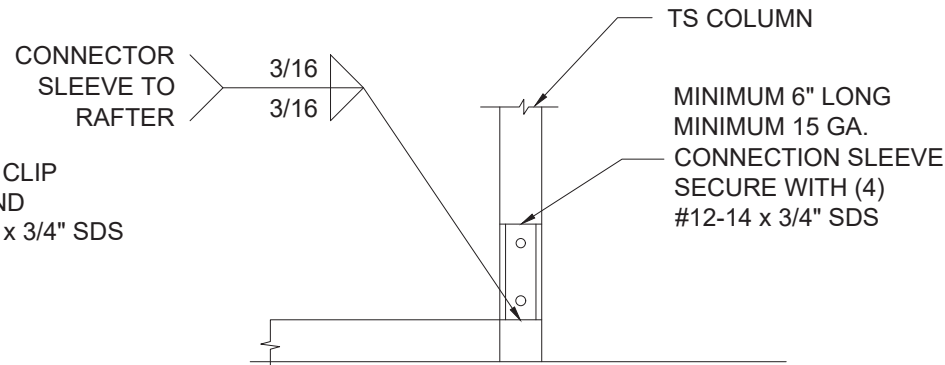
No. 75584

STATE OF FLORIDA

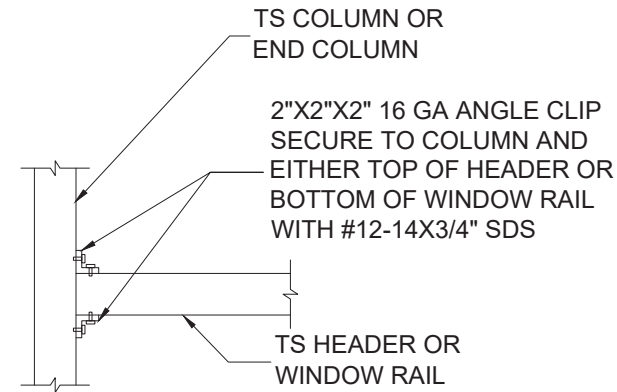
PROFESSIONAL ENGINEER



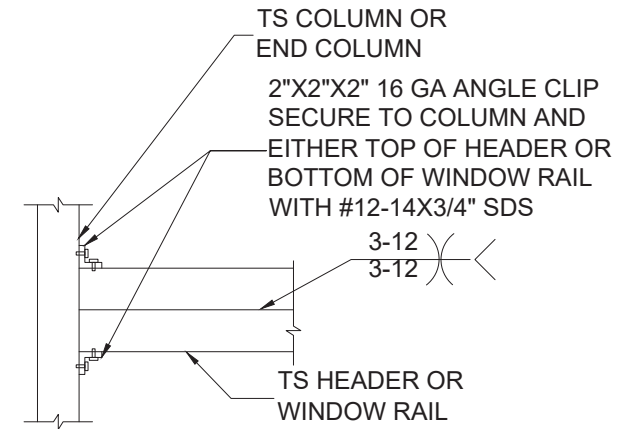
4 POST/RAFTER CONNECTION
SCALE: NTS



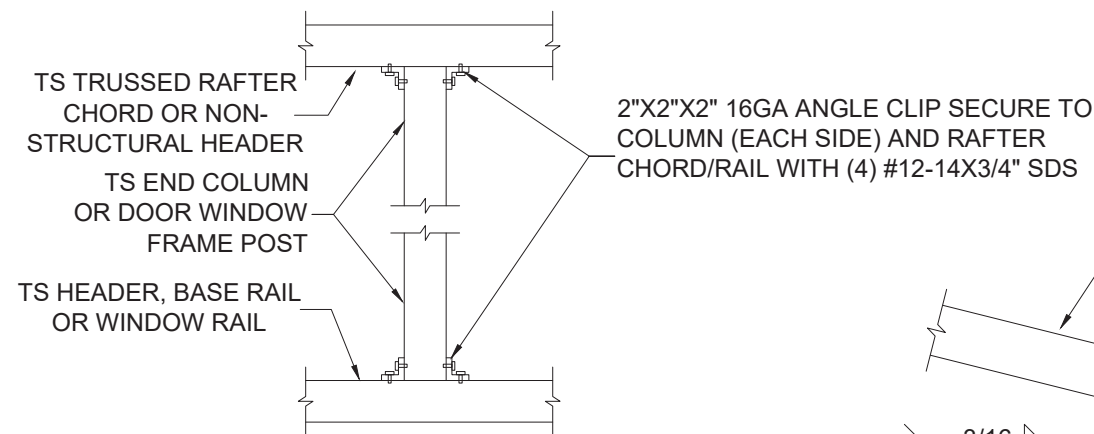
5 POST/BASE RAIL CONNECTION
SCALE: NTS



6A HEADER TO POST CONNECTION
SCALE: NTS

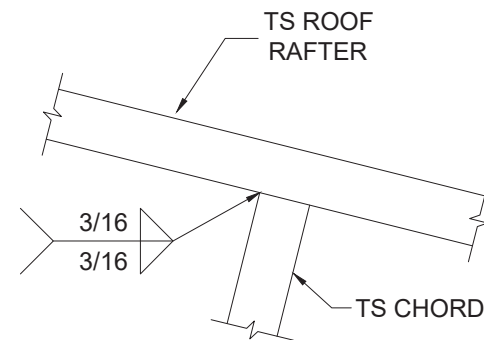


6B DOUBLE HEADER TO POST CONNECTION
SCALE: NTS

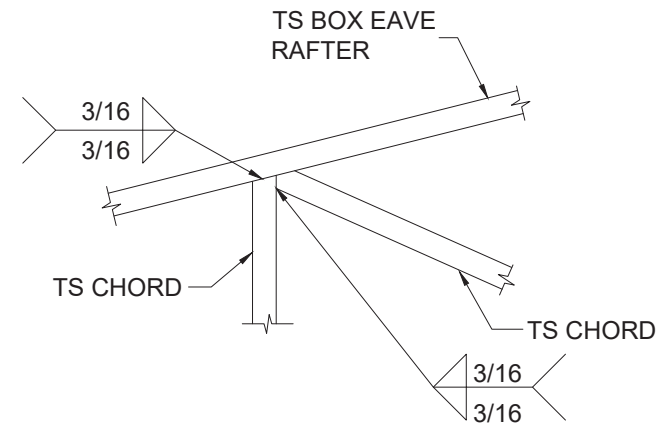


7 POST TO HEADER, BASE RAIL OR WINDOW RAIL CONNECTION
SCALE: NTS

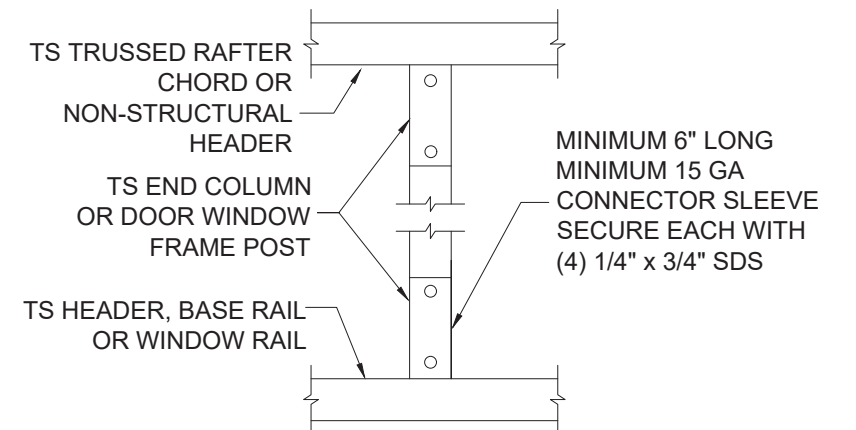
NOTE AT ROLL-UP DOOR OPENINGS, COLUMN SHOULD BE FLUSH WITH RAIL END CLIP SIDE OPPOSITE THE OPENING



8 RAFTER TO CHORD CONNECTION
SCALE: NTS



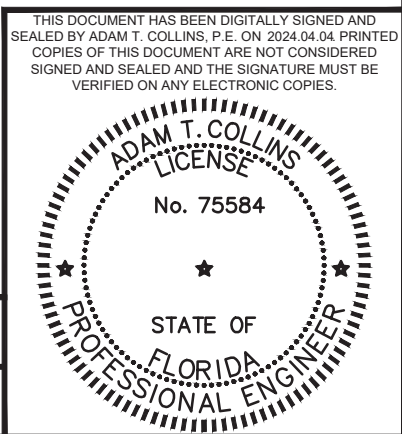
9 TRUSS POST AND CHORD TO RAFTER CONNECTION
SCALE: NTS

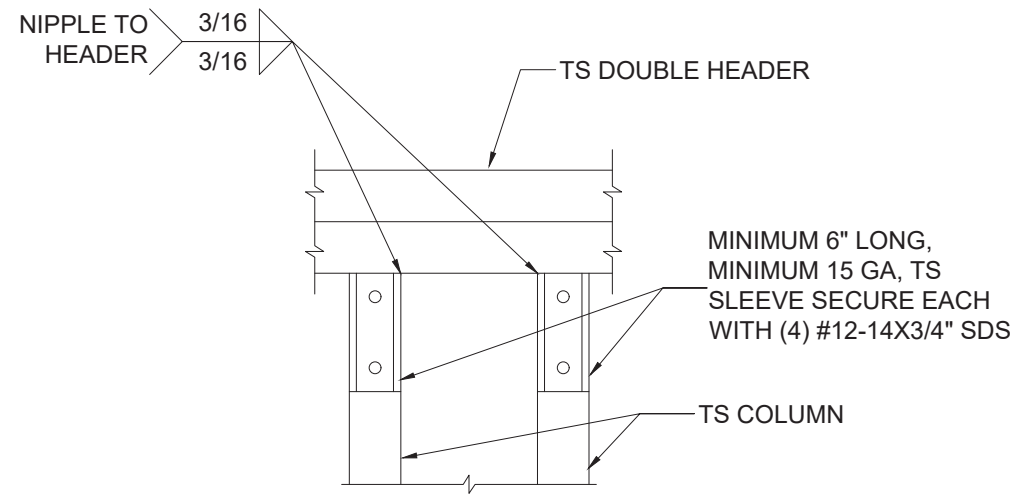


10 POST TO HEADER, BASE RAIL CONNECTION
SCALE: NTS

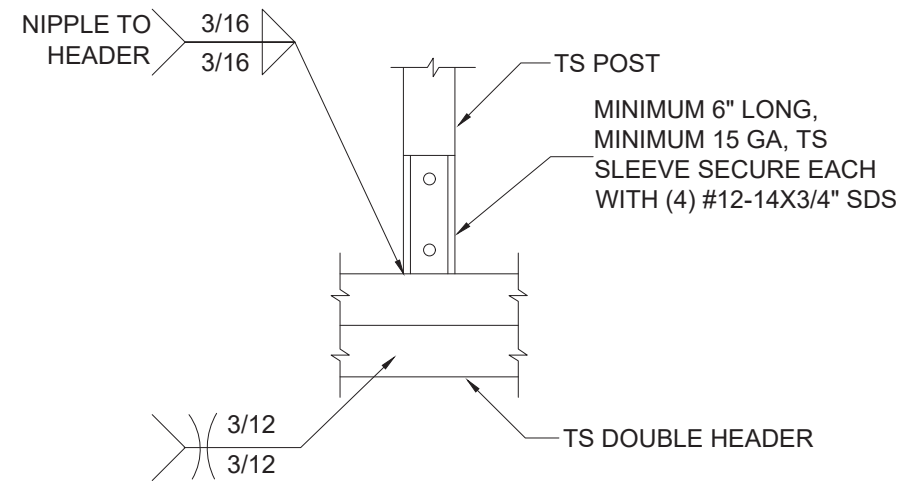
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NO.	REVISIONS	DATE	DATE	2024.04.04	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINESENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (2 OF 4)	Austin Reiter 228 SW Fritz Glen Lake City, FL 32024	S-6
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

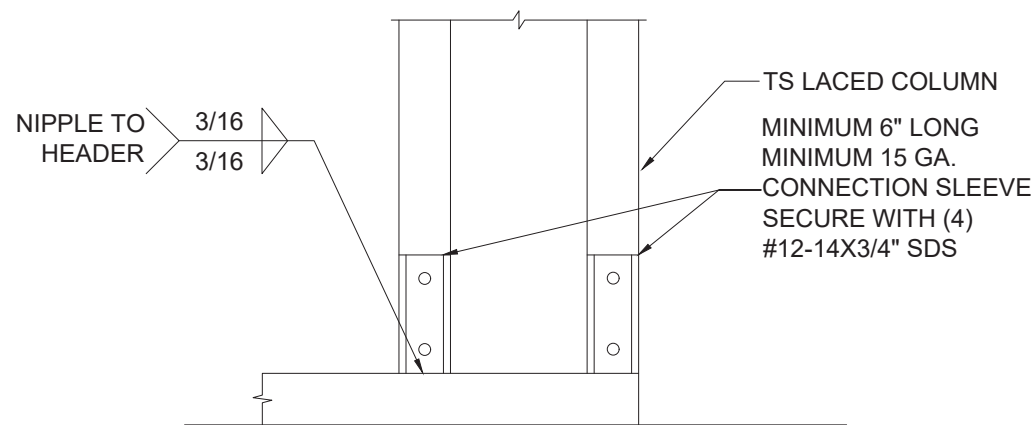




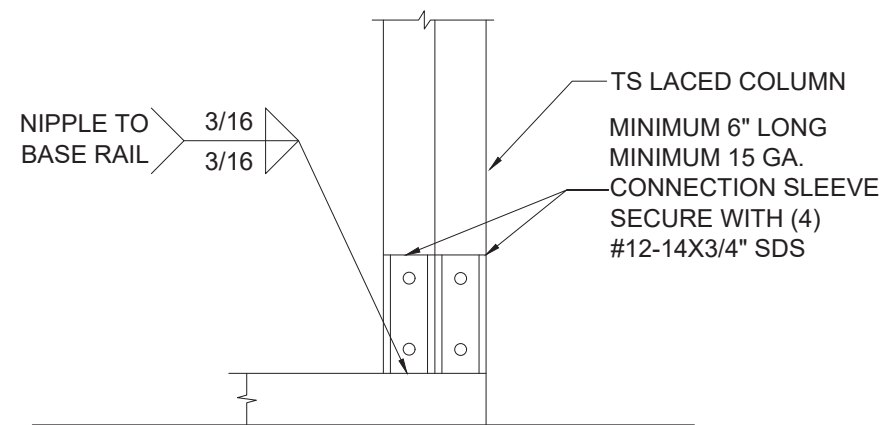
11 DOUBLE HEADER TO POST CONNECTION
SCALE: NTS



12 POST/DOUBLE HEADER CONNECTION
SCALE: NTS



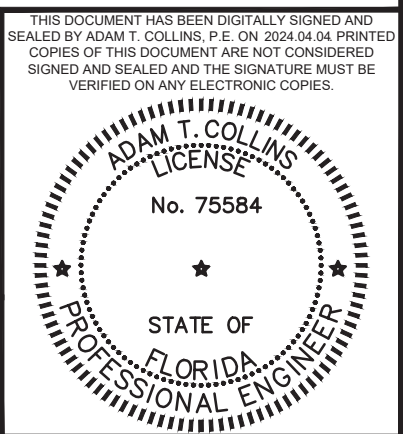
13A POST/BASE RAIL CONNECTION
SCALE: NTS

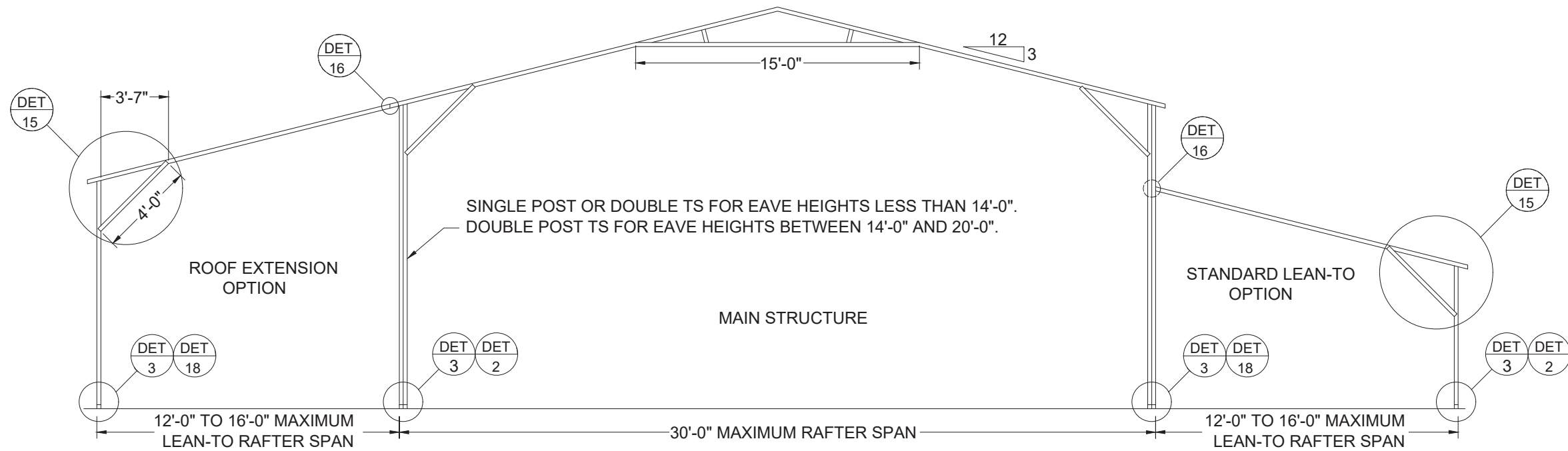


13B POST/BASE RAIL CONNECTION
SCALE: NTS

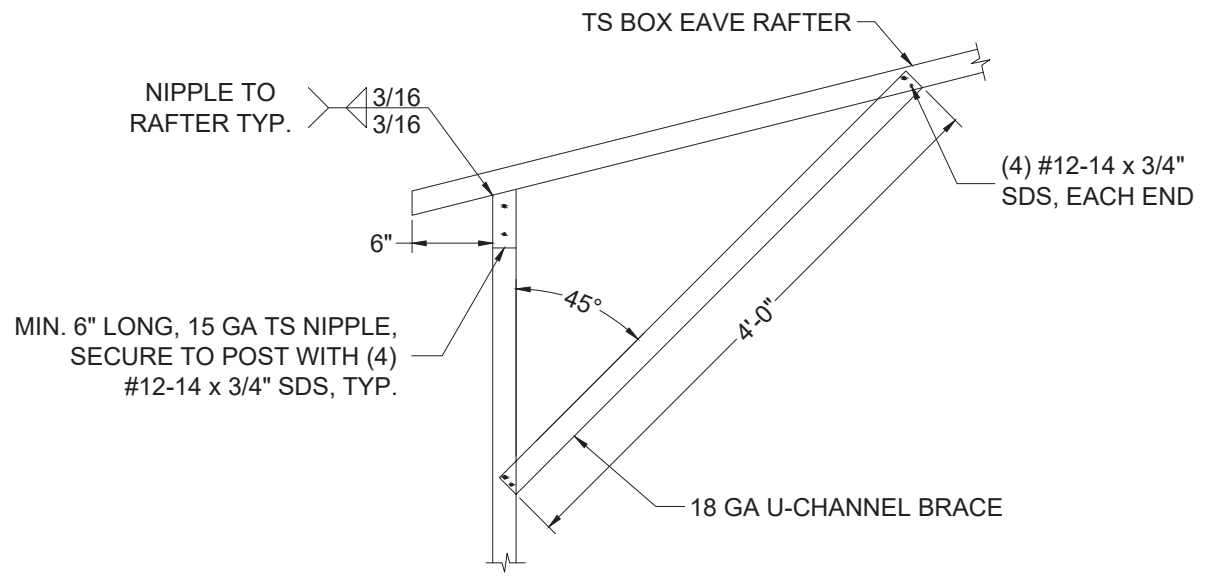
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			DRAWN	SM			 ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (3 OF 4)	Austin Reiter 228 SW Fritz Glen Lake City, FL 32024	S-7
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							





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

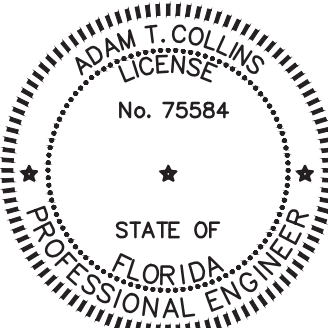


LEAN-TO RAFTER/CORNER POST CONNECTION
SCALE: NTS

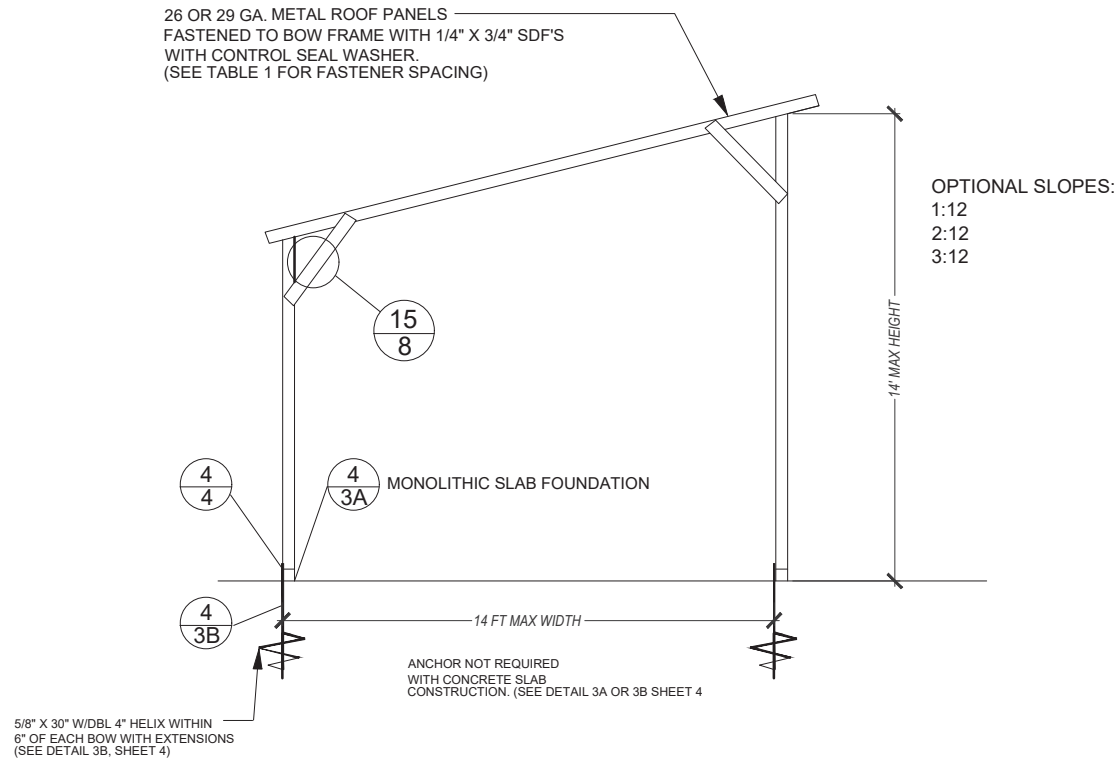
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NO.	REVISIONS	DATE	DATE	2024.04.04	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX EAVE RAFTER LEAN TO OPTIONS	Austin Reiter 228 SW Fritz Glen Lake City, FL 32024	S-8
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

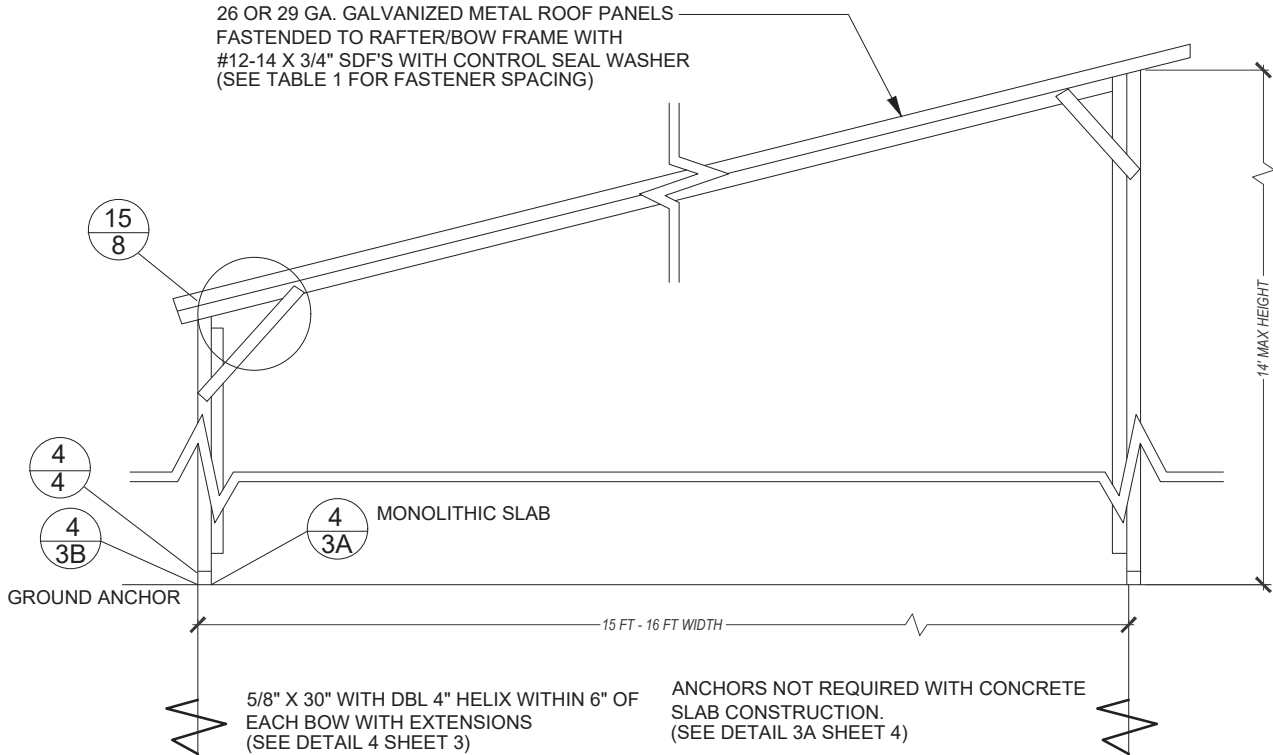
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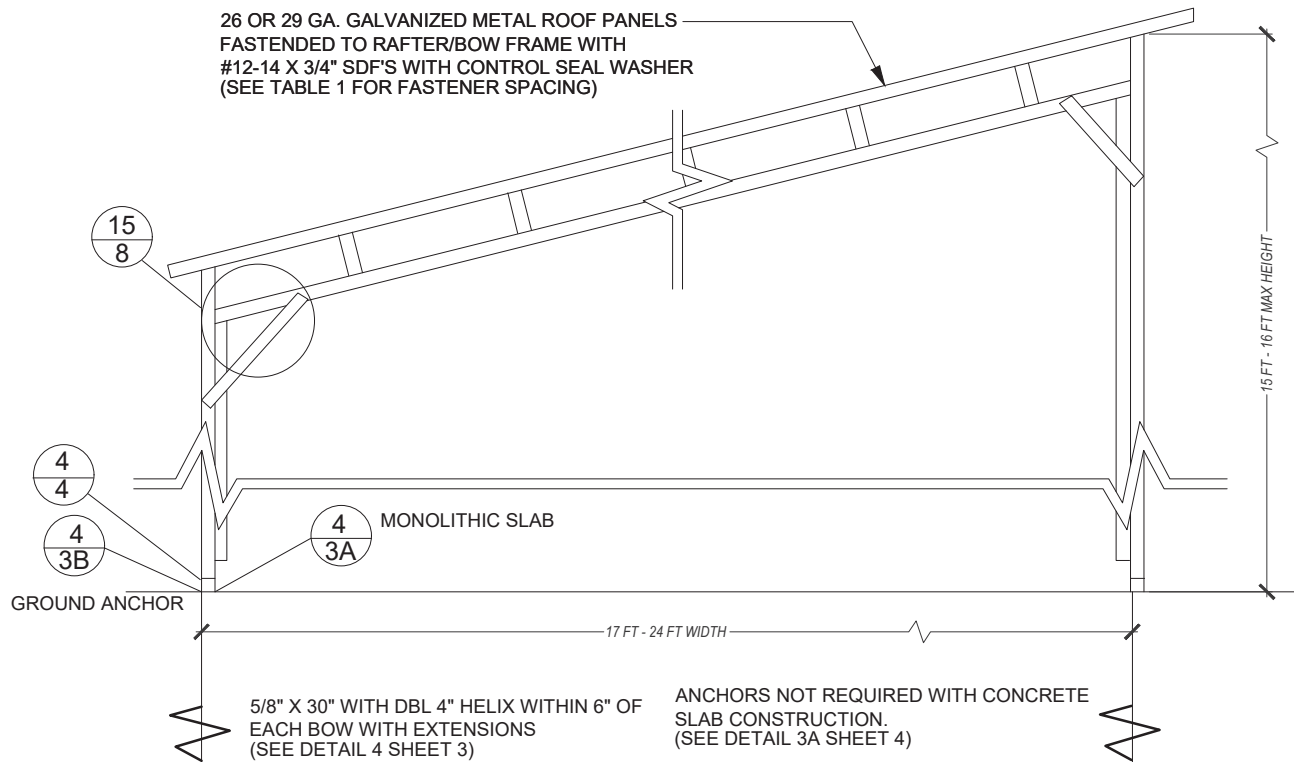
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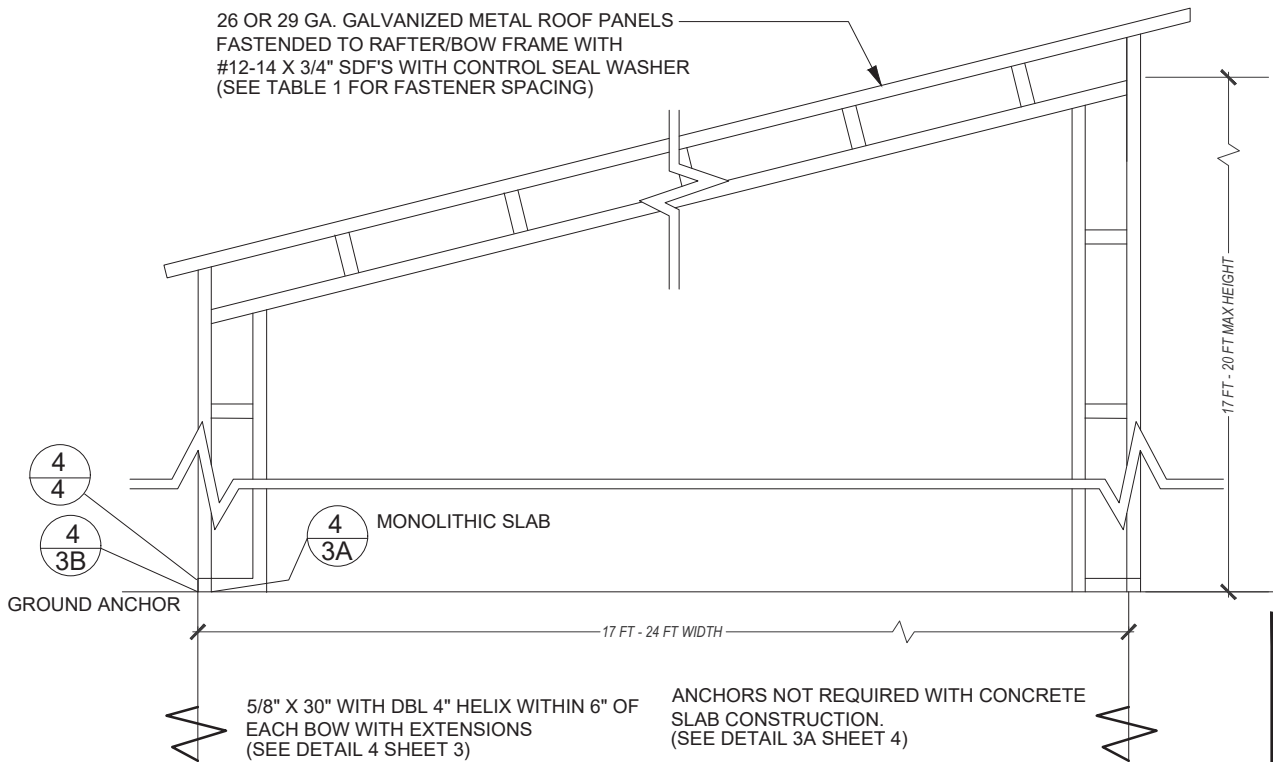
14 FT MAX WIDTH FREESTANDING LEAN-TO
SCALE: NTS



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



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



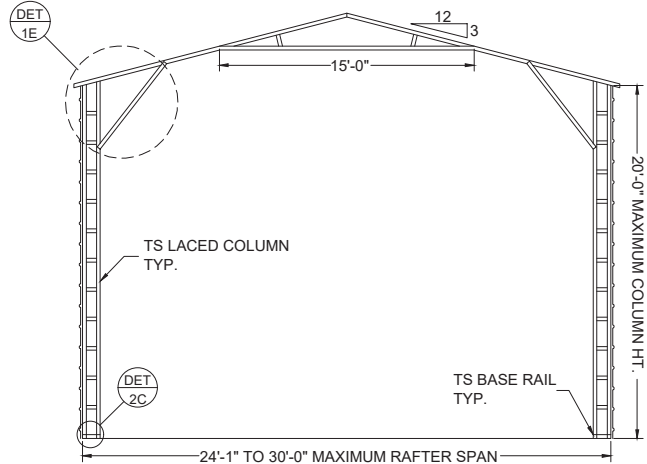
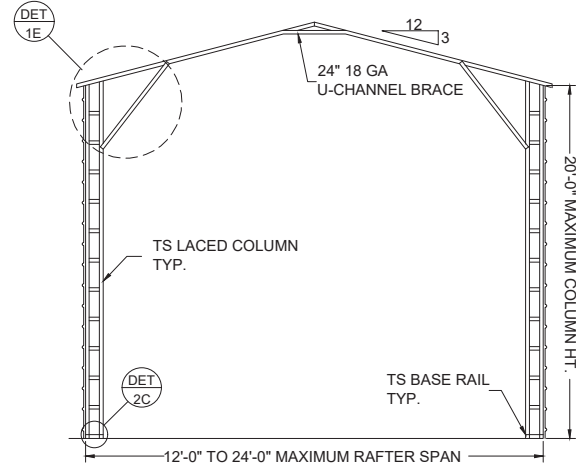
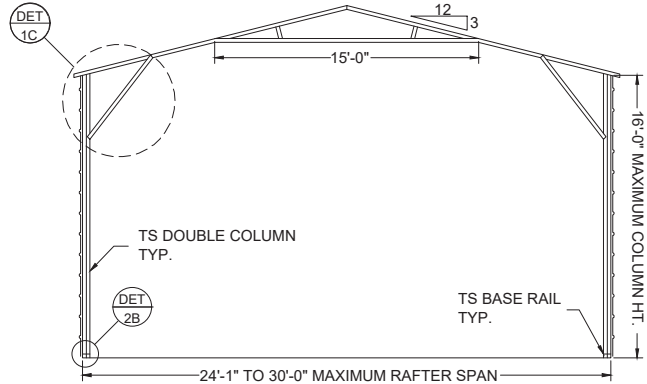
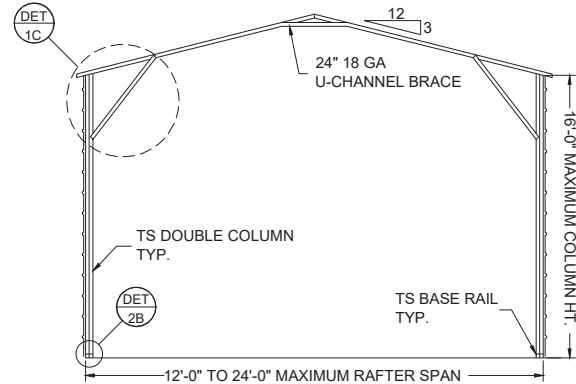
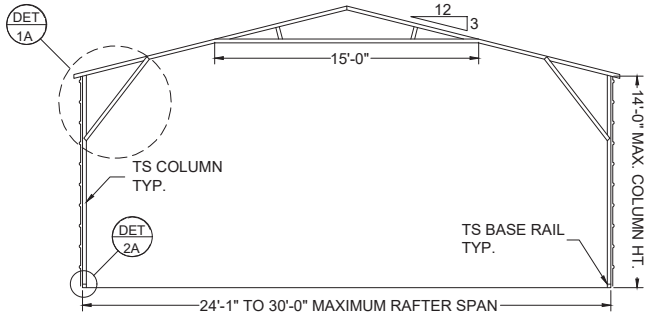
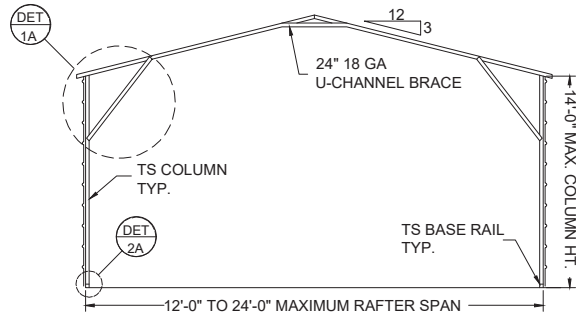
17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO
SCALE: NTS

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			DRAWN	SM			 ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	FREESTANDING BOX EAVE RAFTER LEAN-TO OPTIONS	Austin Reiter 228 SW Fritz Glen Lake City, FL 32024	S-9
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

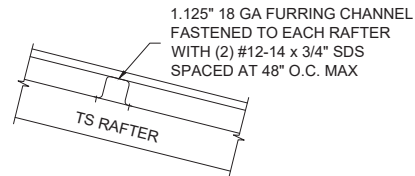
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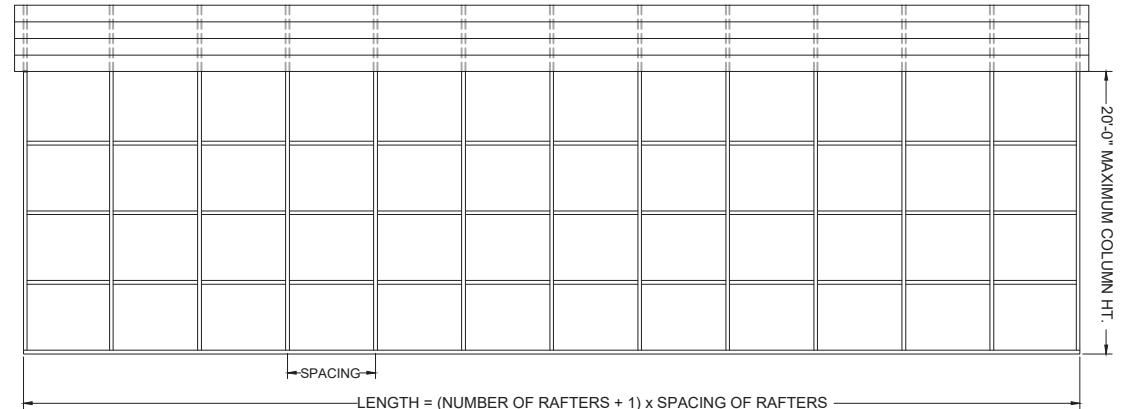
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BOX EAVE FRAME
SCALE: NTS

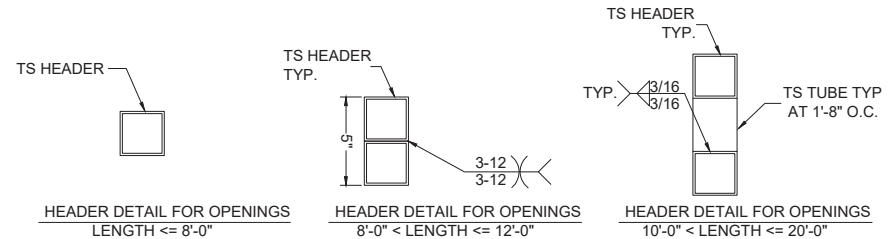


PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

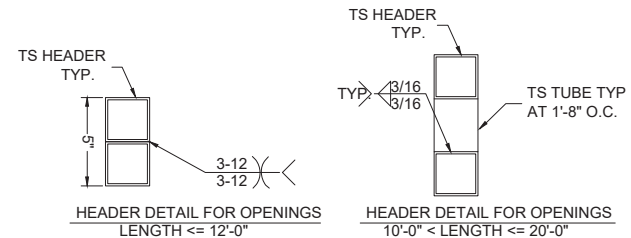


SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH
1.125" 18 GA HAT CHANNELS CAN BE USED IN LIEU OF TS FOR GIRTS.

TYPICAL SIDE FRAME SECTION
SCALE: NTS

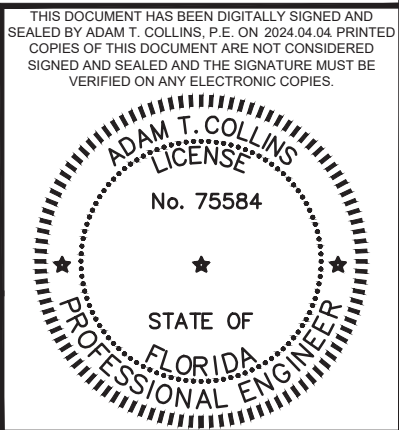


SIDE WALL OPTION HEADER
SCALE: NTS



END WALL OPTION HEADER
SCALE: NTS

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			DRAWN	SM			 ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	BOX EAVE RAFTER VERTICAL ROOF-SIDING OPTION	Austin Reiter 228 SW Fritz Glen Lake City, FL 32024	S-11
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

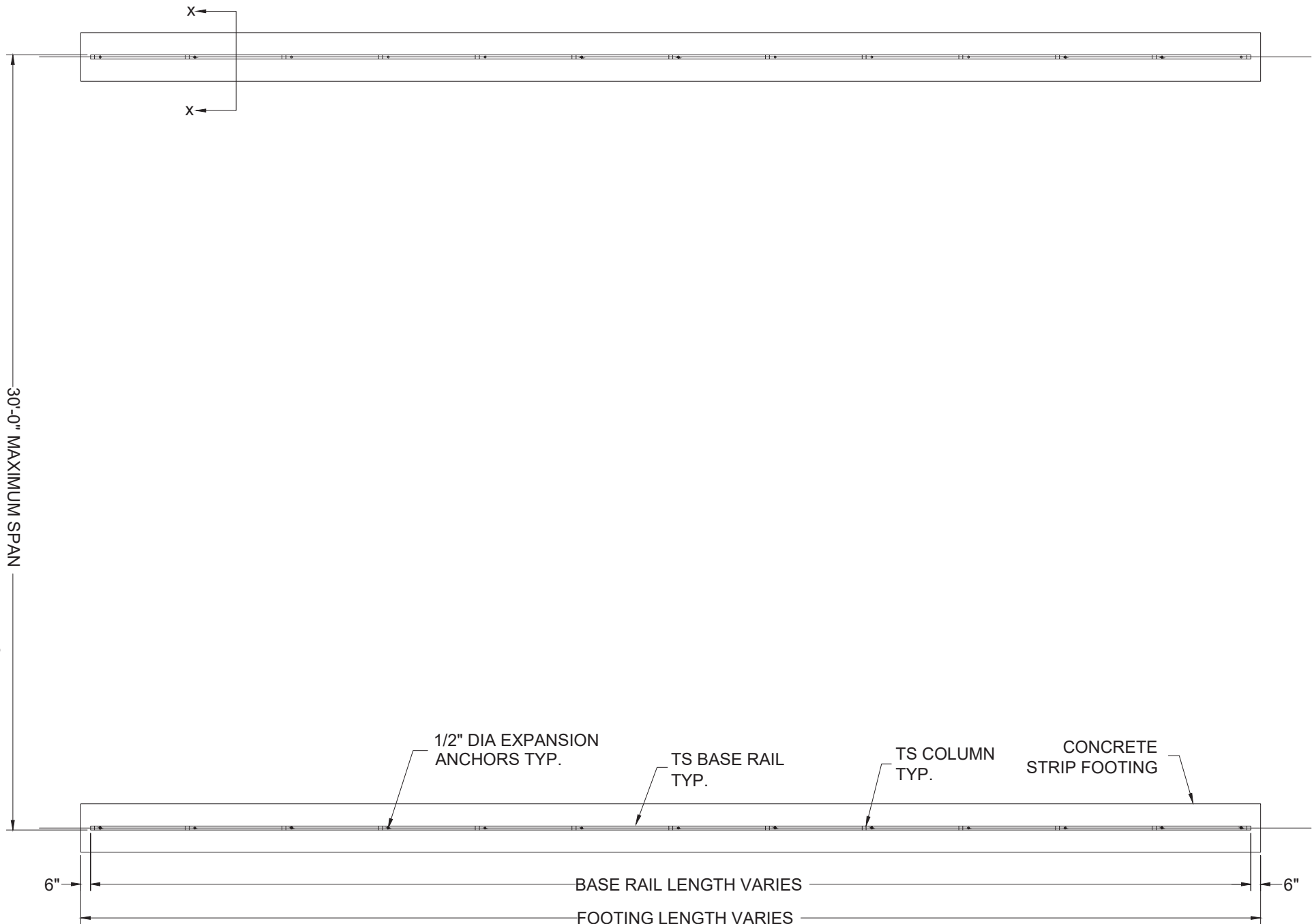
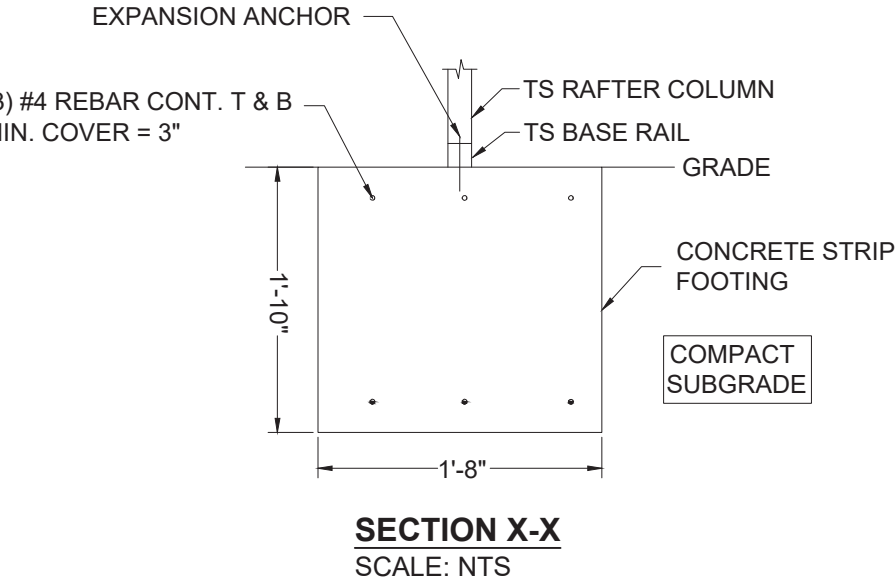


GENERAL NOTES

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

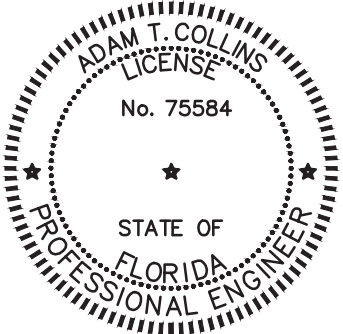
REINFORCING STEEL

- 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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			DRAWN	SM			 ADAM COLLINS ENGINEERING INC. CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	OPTIONAL CONCRETE STRIP FOOTING	Austin Reiter 228 SW Fritz Glen 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

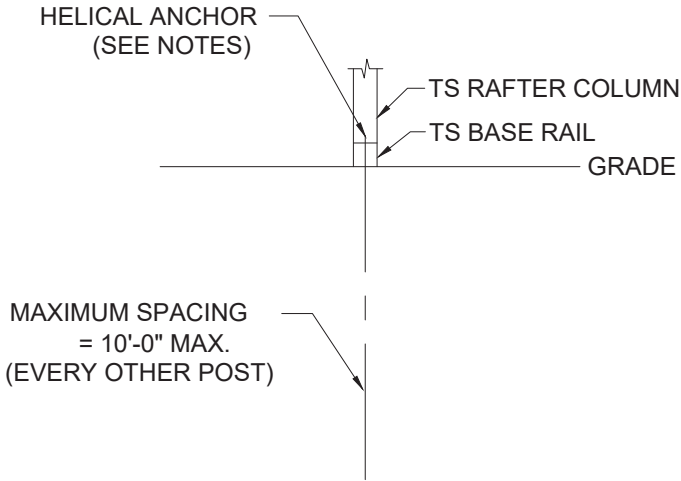
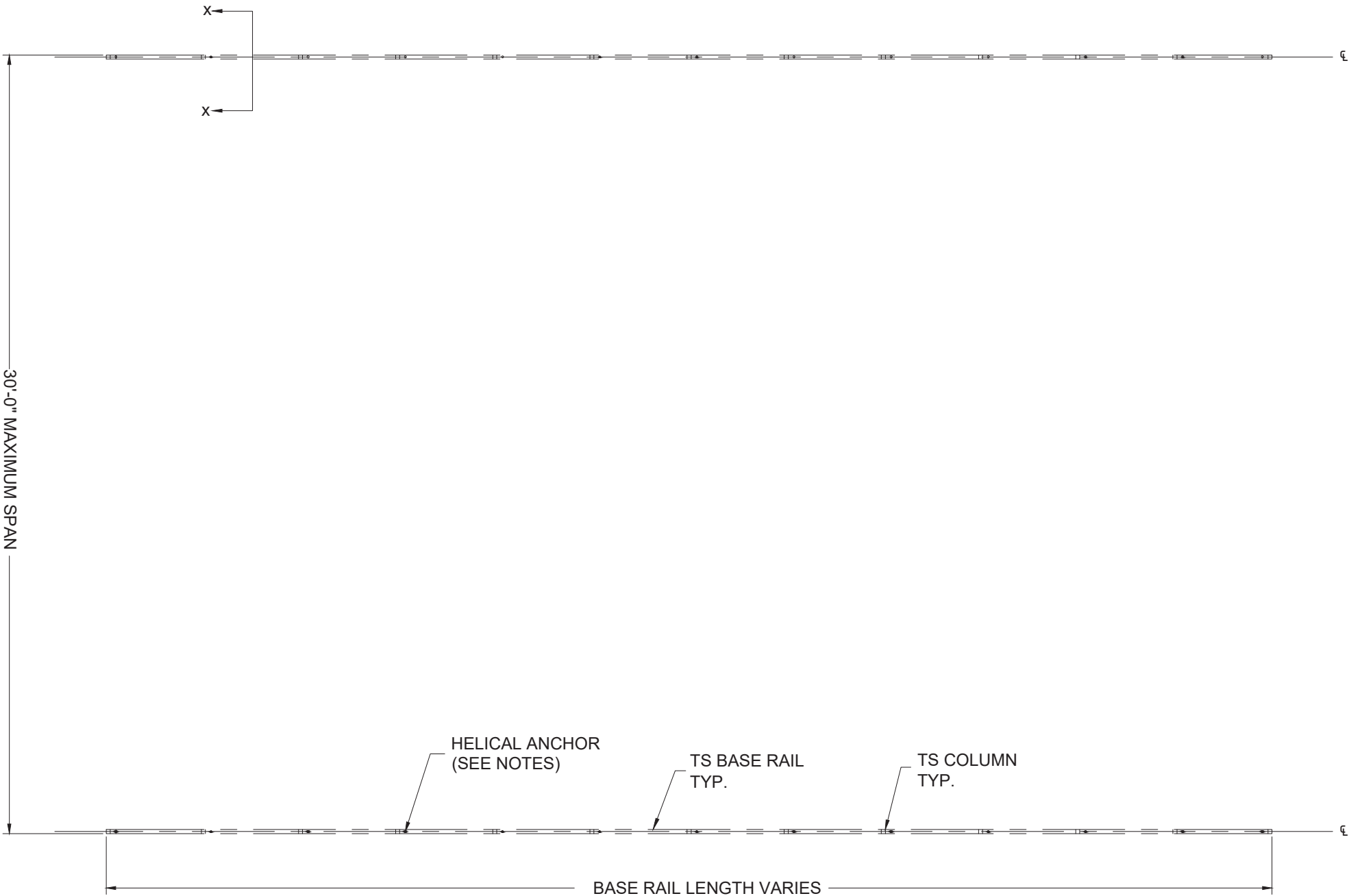
1.8. VERY STIFF SILTS AND CLAYS
2. USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT FOR
- 2.1. LOOSE TO MEDIUM DENSE SANDS

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,



SECTION X-X
SCALE: NTS

BASE RAIL PLAN
SCALE: NTS

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			DRAWN	SM			CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM ADAM COLLINS ENGINEERING INC.	ELITE METAL MANUFACTURING 10121 88TH TRACE	OPTIONAL HELICAL ANCHORING DETAIL	Austin Reiter 228 SW Fritz Glen Lake City, FL 32024	S-13
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							