

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

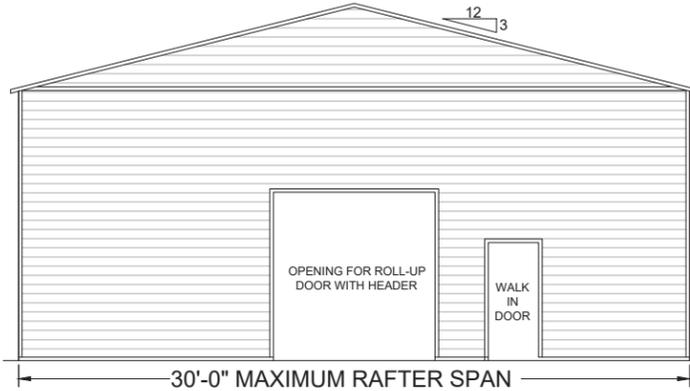
- DEAD LOAD = 15 PSF
- LIVE LOAD = 20 PSF
- WIND LOAD (SEE TABLE 1)

ENCLOSED METAL BUILDING DESIGN

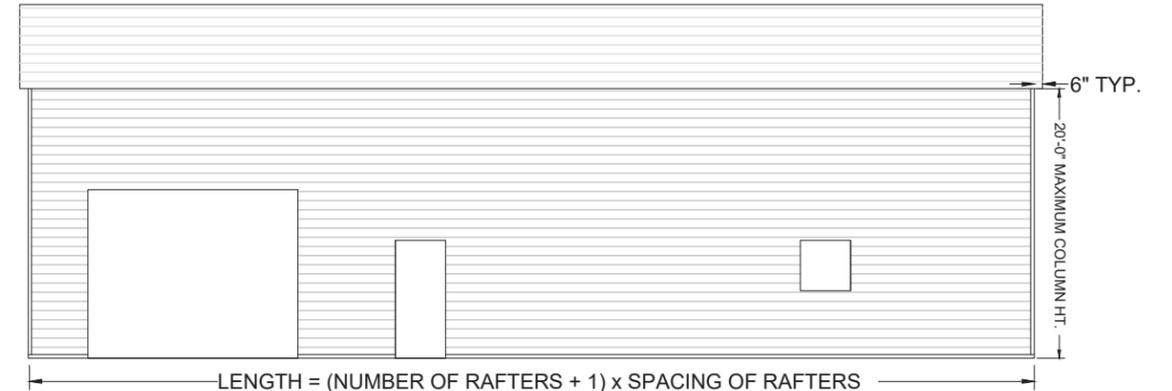
24FT WIDE X 30FT LONG X 11FT EAVE HT.

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

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.

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.

BUILDING SIDE	LEAN-TO SIZE (FT)
LEFT	
RIGHT	8' x 30' x 8'
FRONT	
REAR	

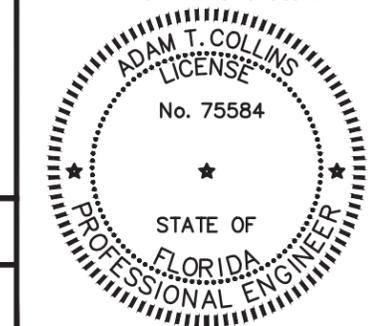


DRAWING INDEX

PAGE NO.	DESCRIPTION
S-1	NOTES AND SPECIFICATIONS
S-2	BOX-BOW EAVE FRAME RAFTER ENCLOSED BUILDING
S-3	CONNECTION DETAILS (1 OF 4)
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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
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S-12	OPTIONAL CONCRETE STRIP FOOTING
S-13	OPTIONAL HELICAL ANCHORING DETAIL

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

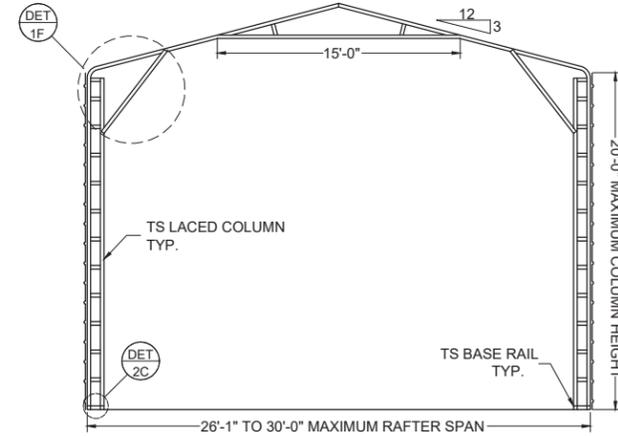
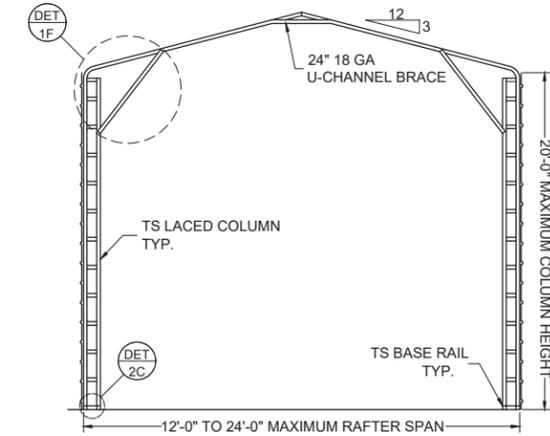
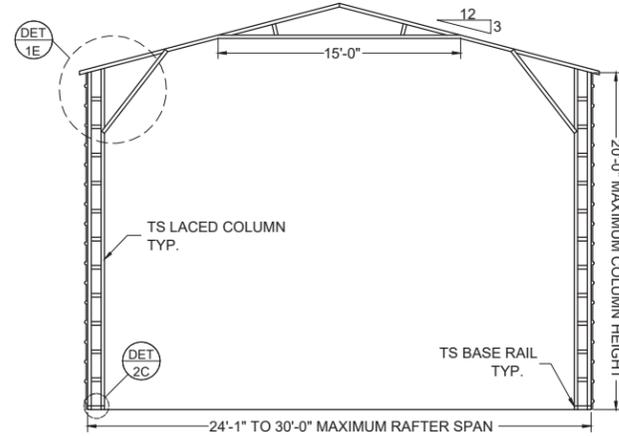
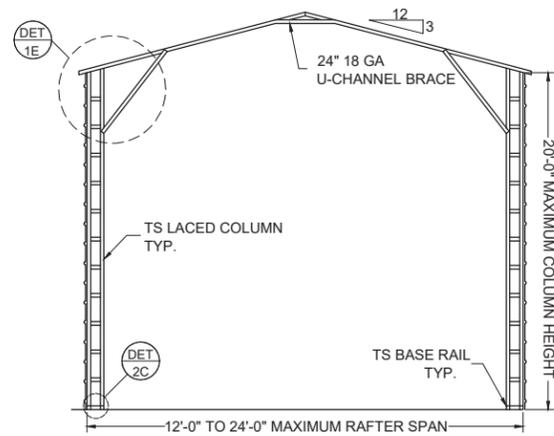
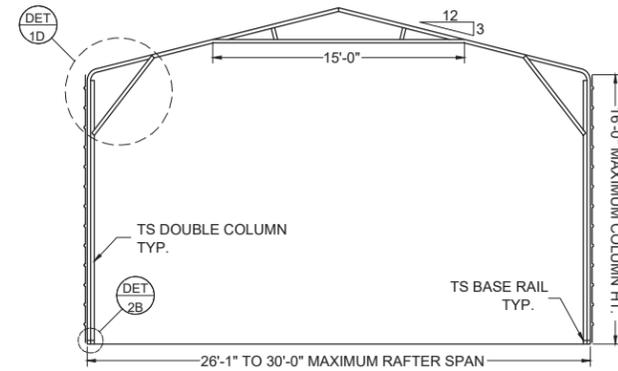
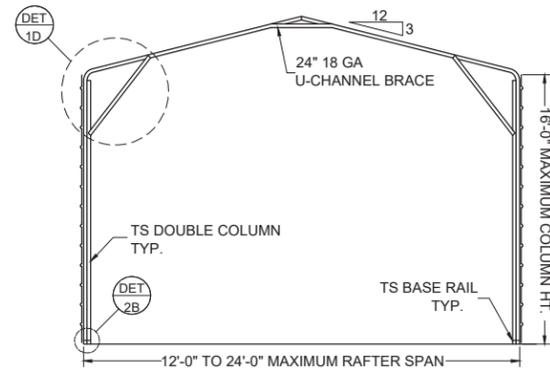
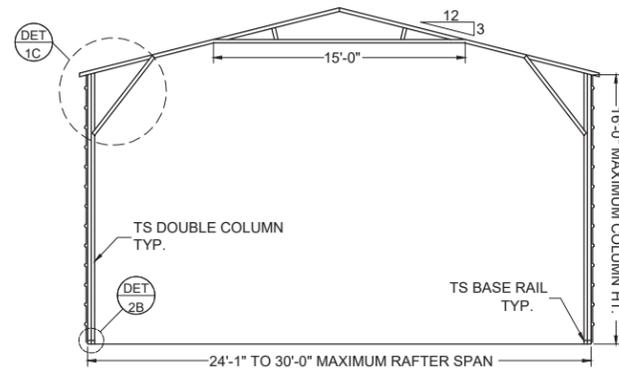
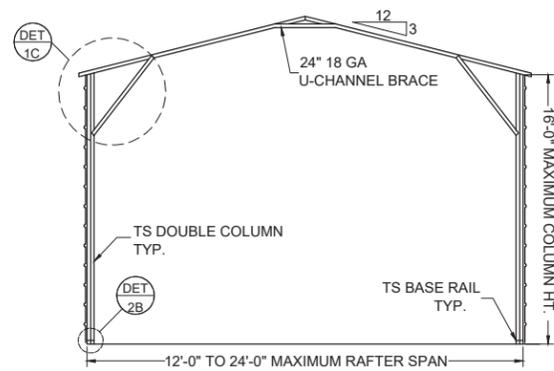
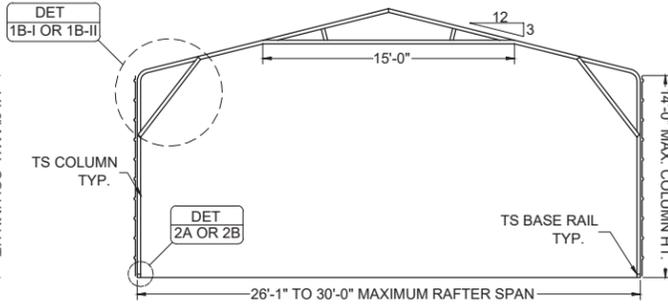
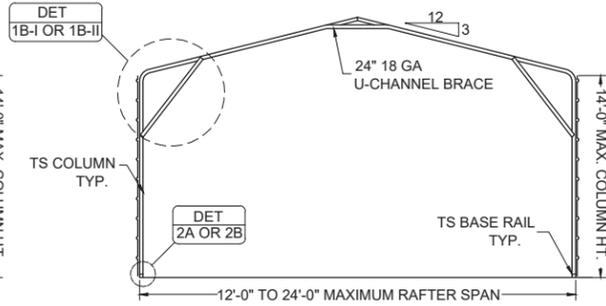
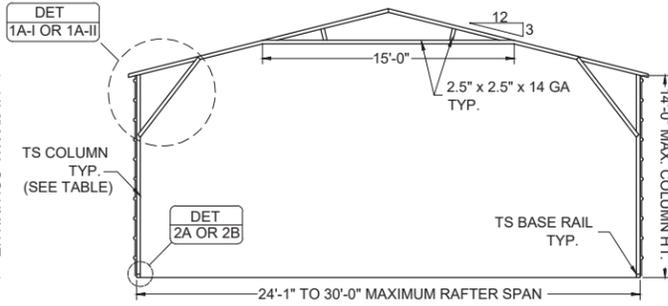
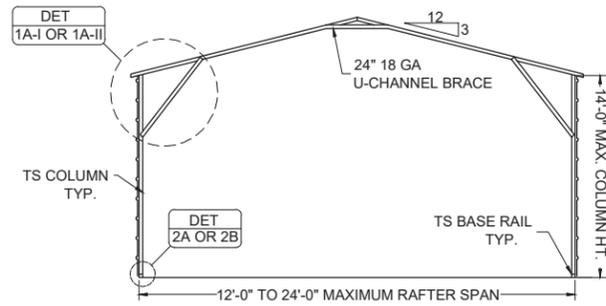
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			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

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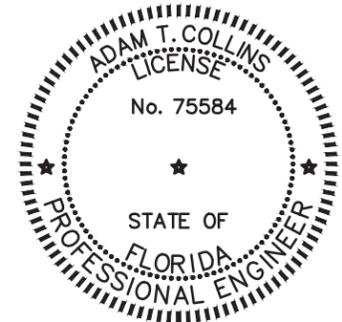
BOX EAVE FRAME

SCALE: NTS

BOW EAVE FRAME

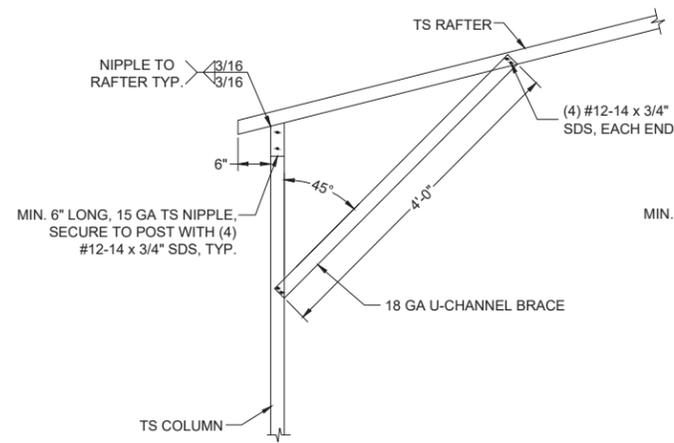
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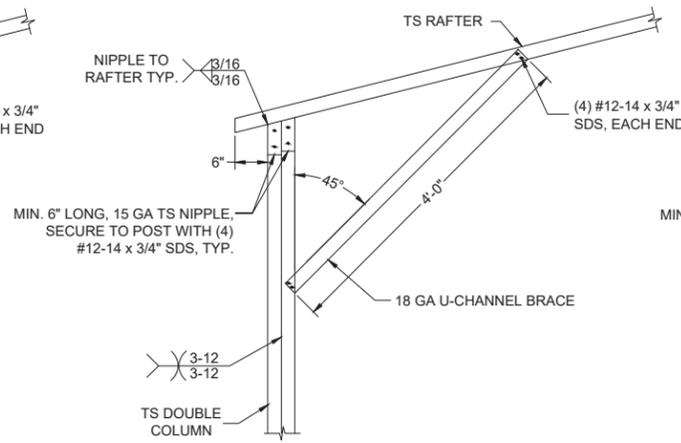


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			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

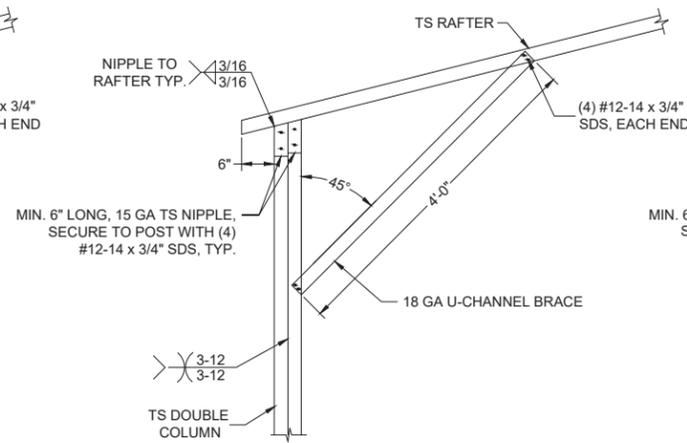
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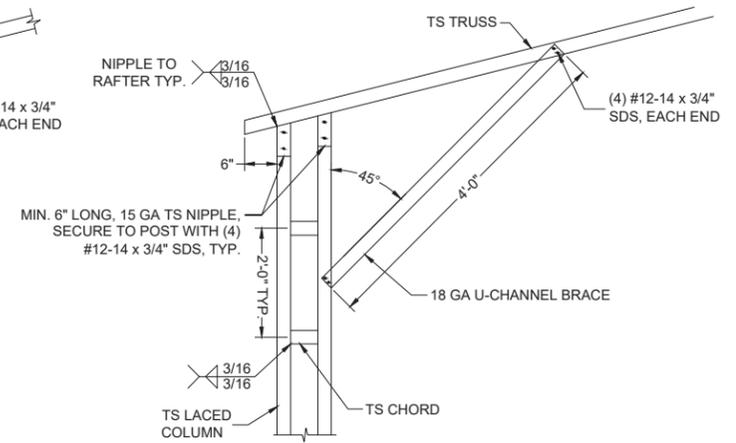
1A-I BOX EAVE RAFTER/CORNER POST CONNECTION 30'(MAX.)W x 14'H
SCALE: NTS



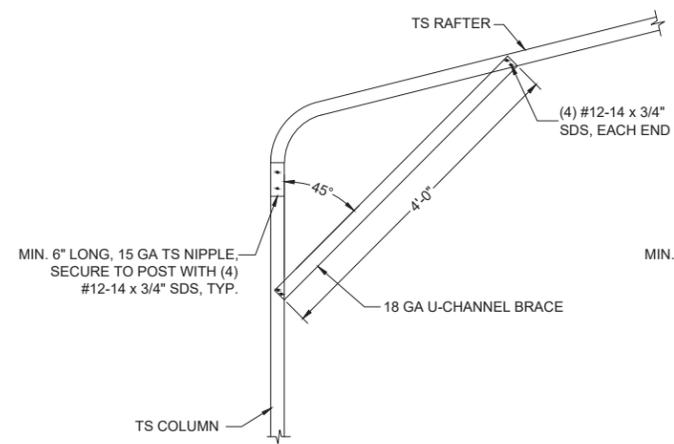
1A-II BOX EAVE RAFTER/CORNER POST CONNECTION 30'(MAX.)W x 14'H
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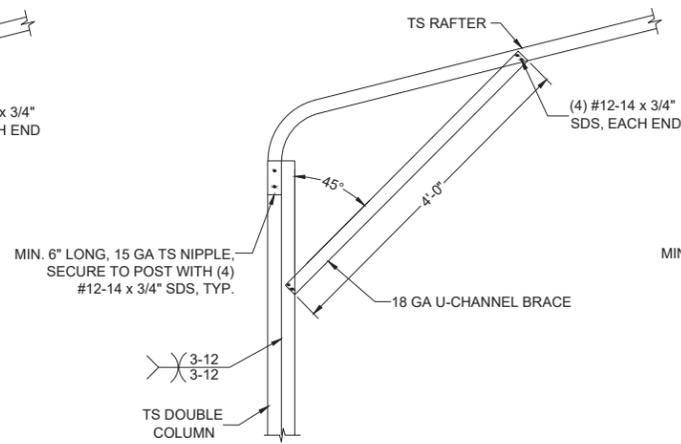
1C BOX EAVE RAFTER/CORNER POST CONNECTION 30'(MAX.)W x 16'H
SCALE: NTS



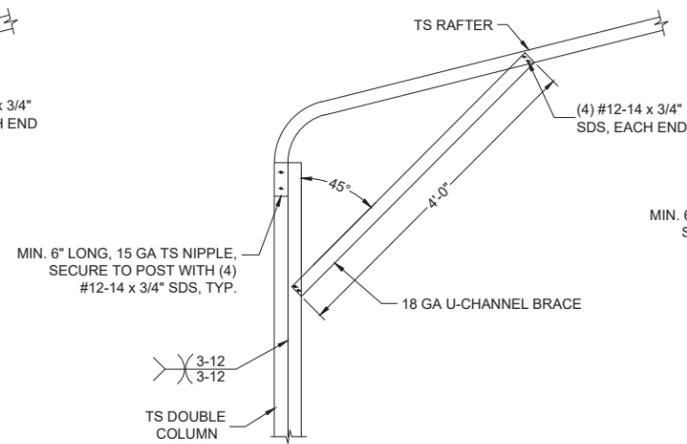
1E BOX EAVE RAFTER/CORNER POST CONNECTION 30'(MAX.)W x 20'H
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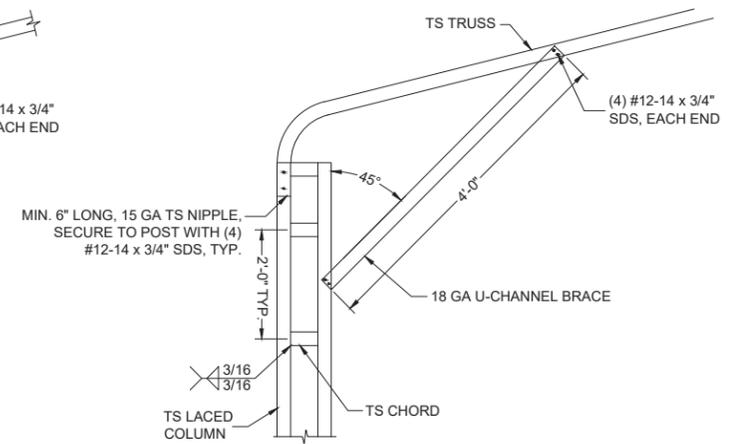
1B-I BOW EAVE RAFTER/CORNER POST CONNECTION 30'(MAX.)W x 14'H
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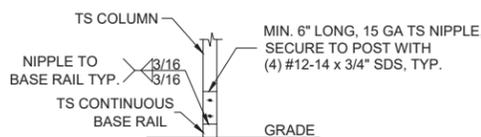
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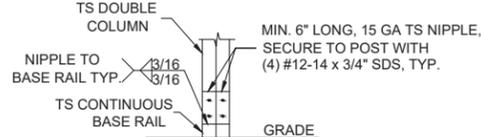
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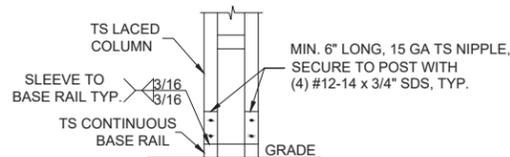
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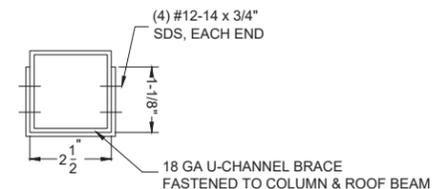
2A POST/BASE RAIL CONNECTION
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2B POST/BASE RAIL CONNECTION
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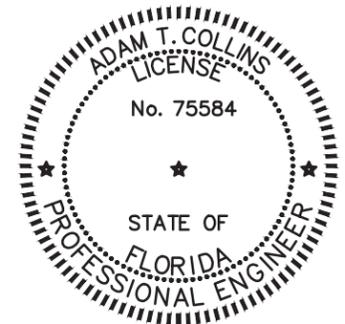


2C POST/BASE RAIL CONNECTION
SCALE: NTS



BRACE SECTION
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			2026.02.11									
			SM									
			DMC									
			ATC									
			22047									

PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
ADAM COLLINS ENGINEERING INC. CA# 31728 - P. 386.320.7400 - WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (1 OF 4)	Traci Pace 235 NW Edgar Ter Lake City, FL 32055	S-3
				SCALE AS-SHOWN

GENERAL NOTES

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

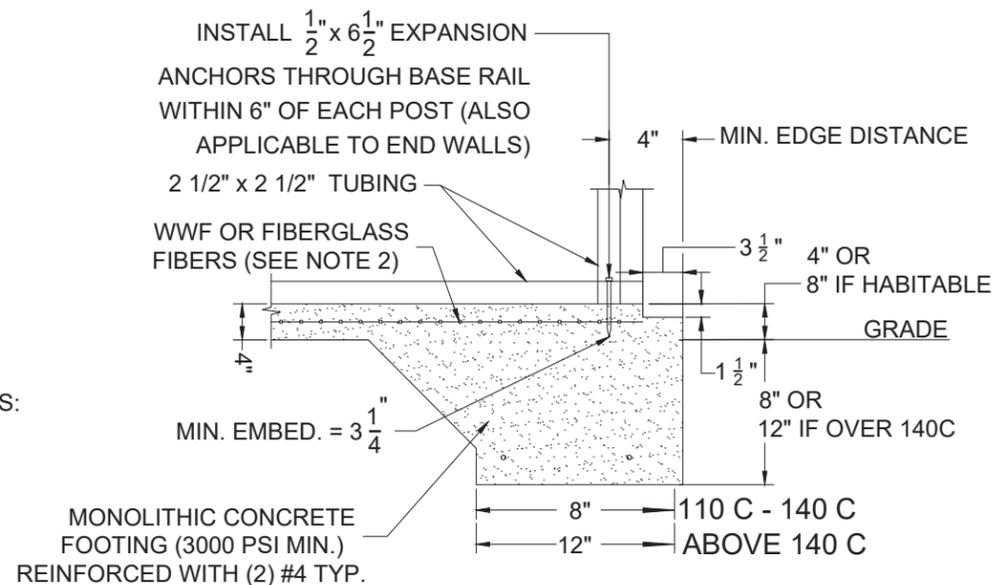
REINFORCING STEEL

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.

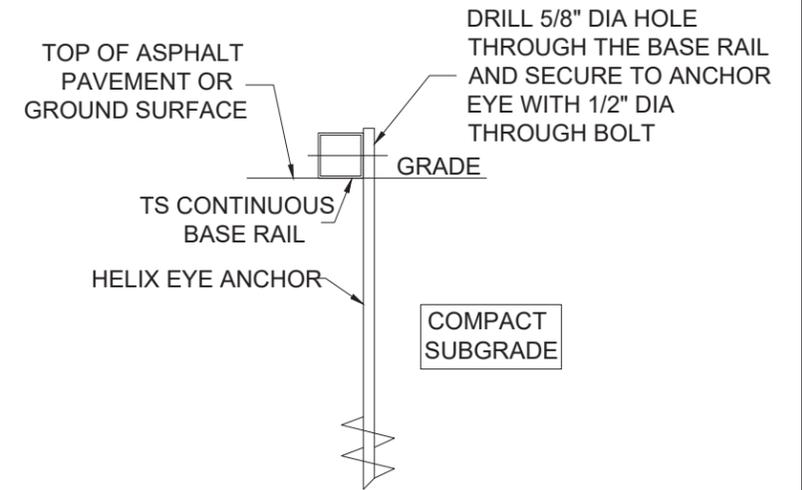
HELIX ANCHOR NOTES

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,

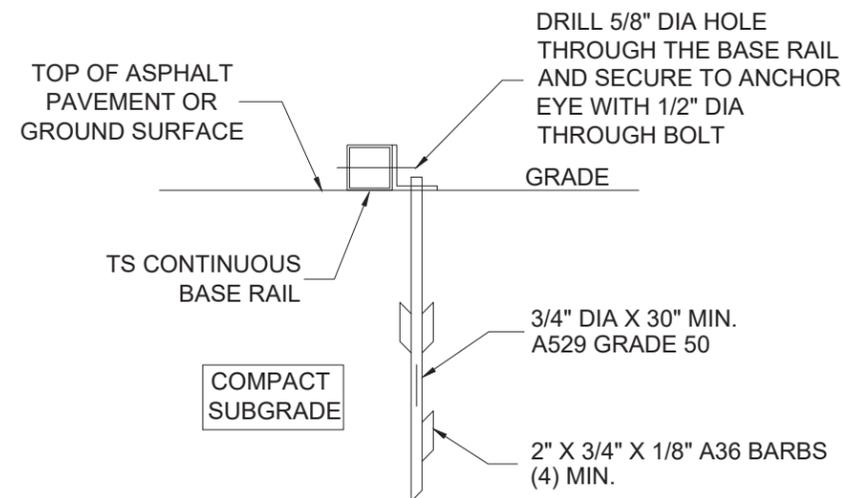
MONOLITHIC FOOTER SIZE	
110 C - 140 C	8" x 12" - (2) #4
ABOVE 140 C	12" x 16" - (2) #4



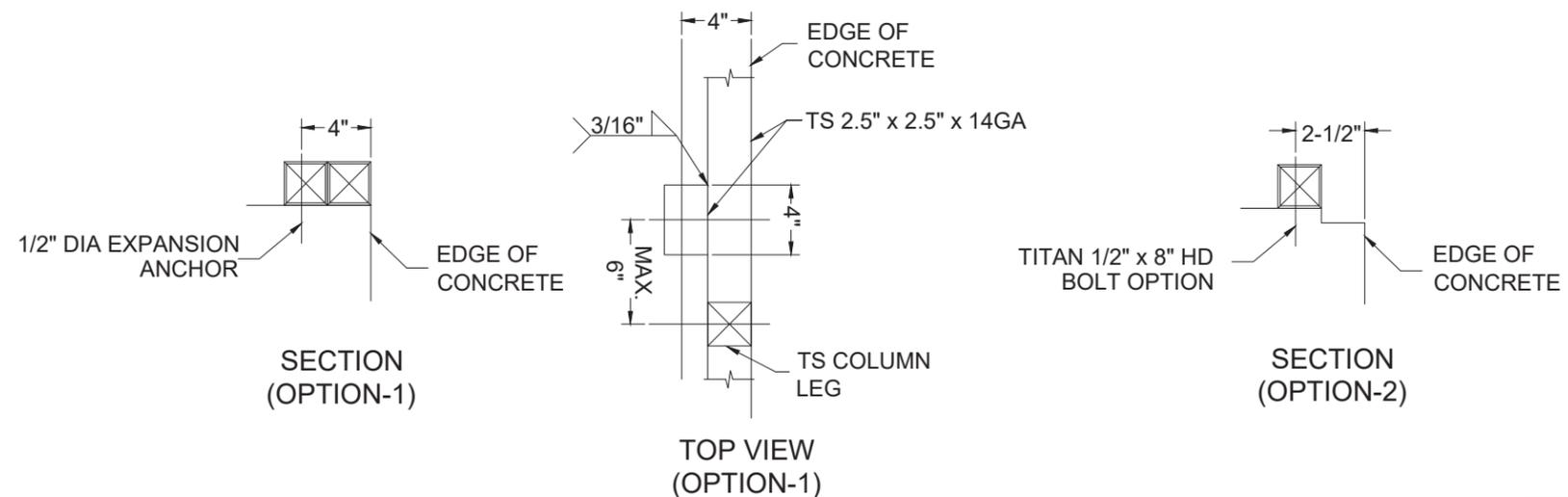
3A
SCALE: NTS



3B
SCALE: NTS



3C
SCALE: NTS



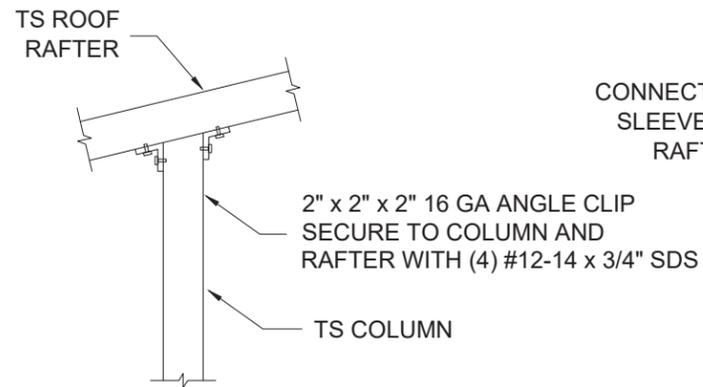
TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE
SCALE: NTS

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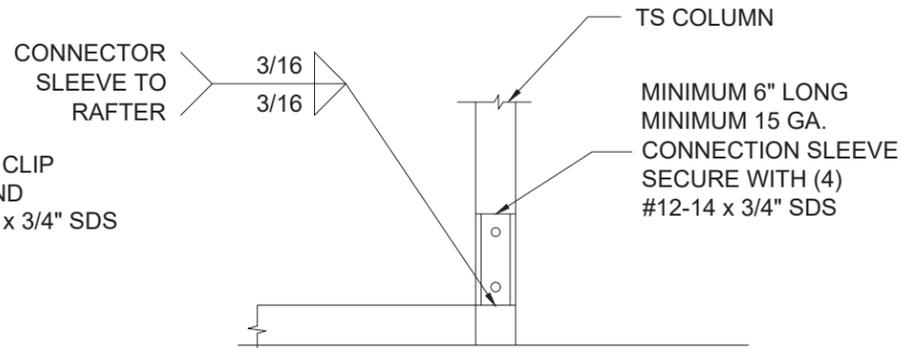
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			DMC		SCALE						
			ATC		AS-SHOWN						
			JOB No. 22047								

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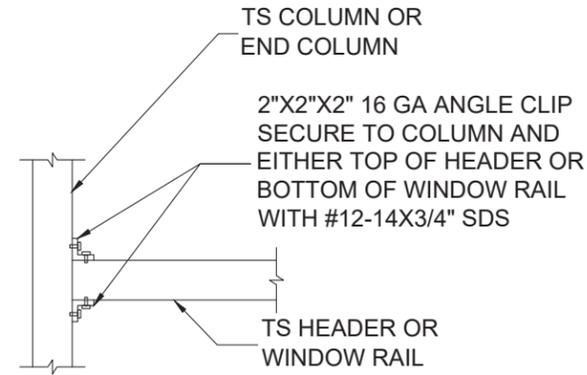
ADAM T. COLLINS
LICENSE
No. 75584
STATE OF FLORIDA
PROFESSIONAL ENGINEER



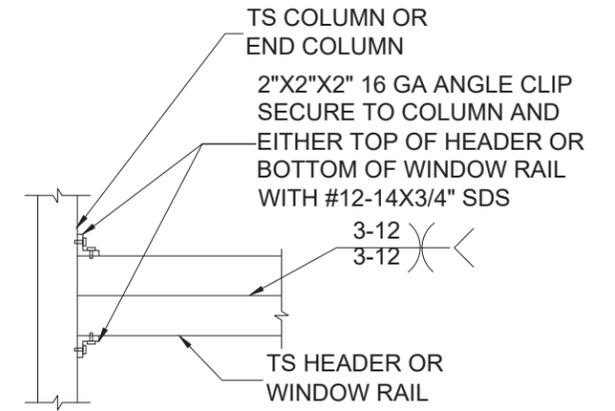
4 POST/RAFTER CONNECTION
SCALE: NTS



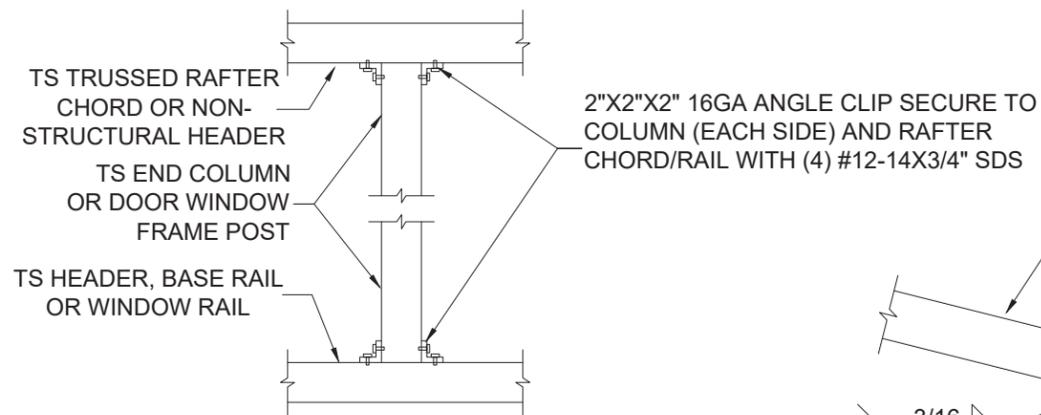
5 POST/BASE RAIL CONNECTION
SCALE: NTS



6A HEADER TO POST CONNECTION
SCALE: NTS

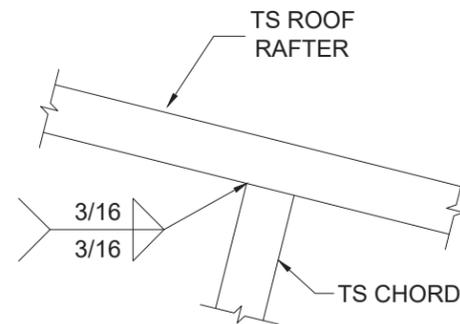


6B DOUBLE HEADER TO POST CONNECTION
SCALE: NTS

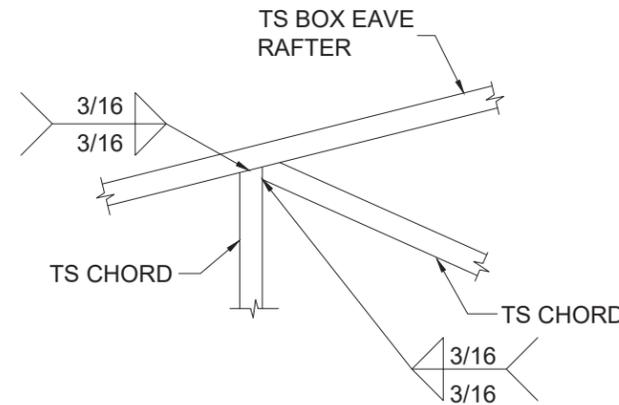


7 POST TO HEADER, BASE RAIL OR WINDOW RAIL CONNECTION
SCALE: NTS

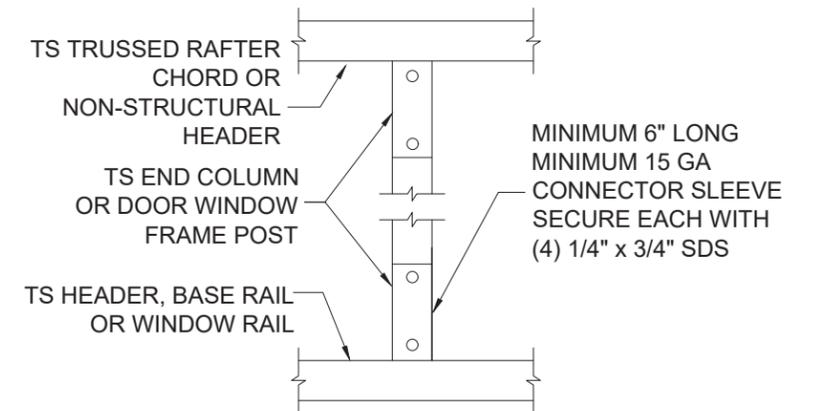
NOTE AT ROLL-UP DOOR OPENINGS, COLUMN SHOULD BE FLUSH WITH RAIL END CLIP SIDE OPPOSITE THE OPENING



8 RAFTER TO CHORD CONNECTION
SCALE: NTS



9 TRUSS POST AND CHORD TO RAFTER CONNECTION
SCALE: NTS



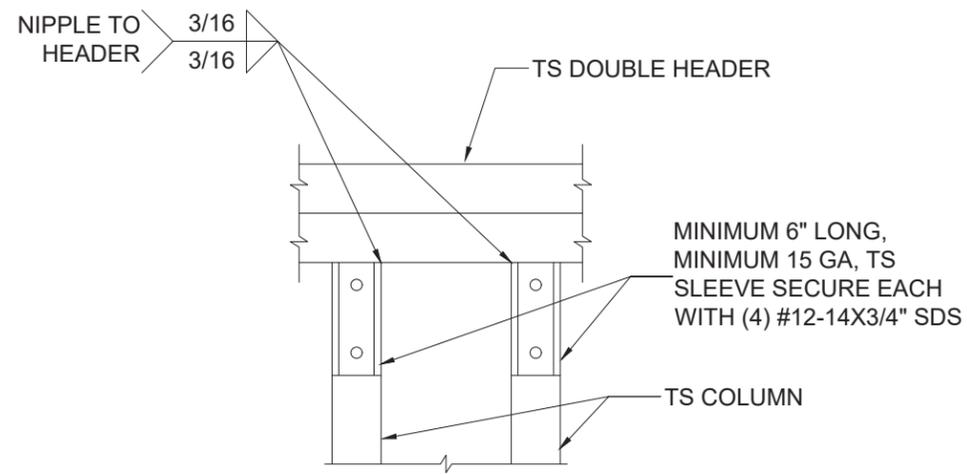
10 POST TO HEADER, BASE RAIL CONNECTION
SCALE: NTS

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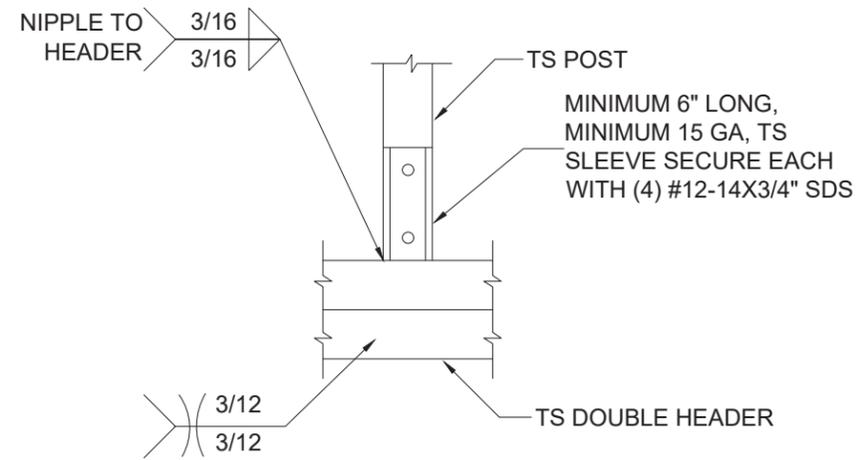
NO.	REVISIONS	DATE	DATE	2026.02.11	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 ADAM COLLINS ENGINEERING INC. <small>CA# 31728 - P: 386.320.7400 - WWW.COLLINSENG.COM</small>	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (2 OF 4)	Traci Pace 235 NW Edgar Ter Lake City, FL 32055	S-6
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

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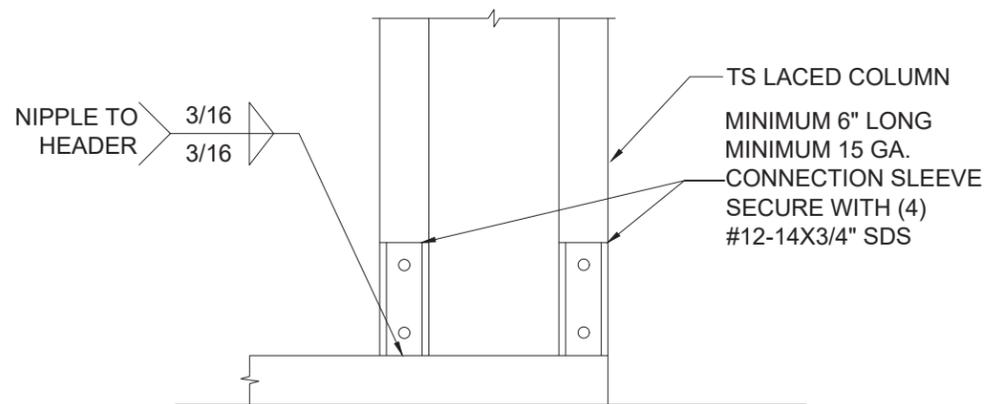
ADAM T. COLLINS
LICENSE
No. 75584
STATE OF FLORIDA
PROFESSIONAL ENGINEER



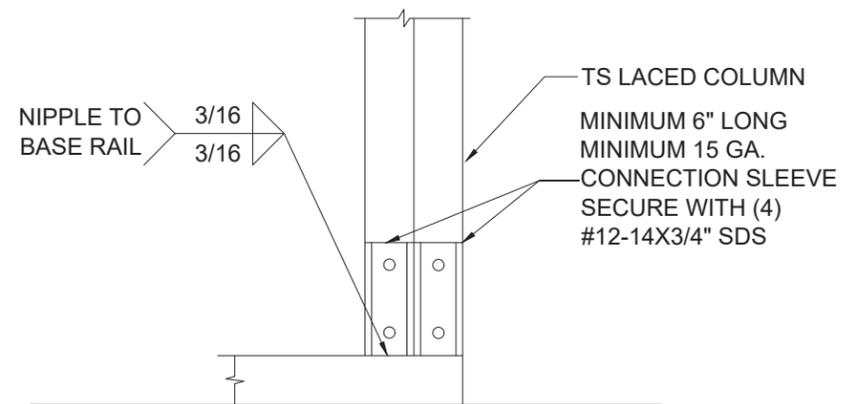
11 DOUBLE HEADER TO POST CONNECTION
SCALE: NTS



12 POST/DOUBLE HEADER CONNECTION
SCALE: NTS



13A POST/BASE RAIL CONNECTION
SCALE: NTS

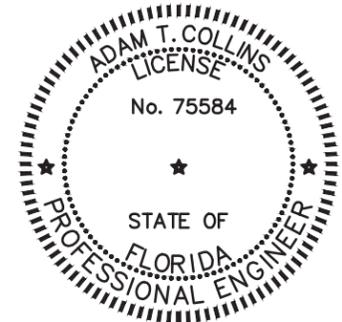


13B POST/BASE RAIL CONNECTION
SCALE: NTS

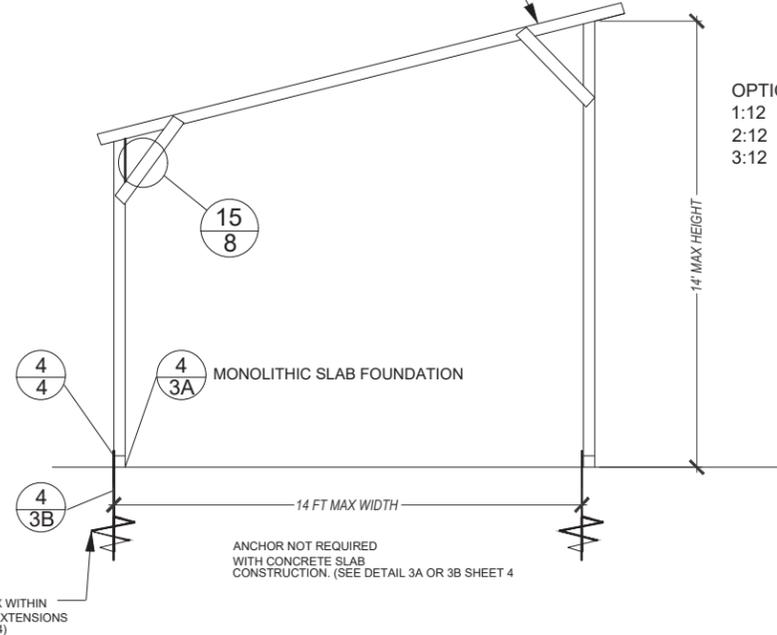
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NO.	REVISIONS	DATE	DATE	2026.02.11	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 ADAM COLLINS ENGINEERING INC. CA# 31728 - P: 386.320.7400 - WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (3 OF 4)	Traci Pace 235 NW Edgar Ter Lake City, FL 32055	S-7
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

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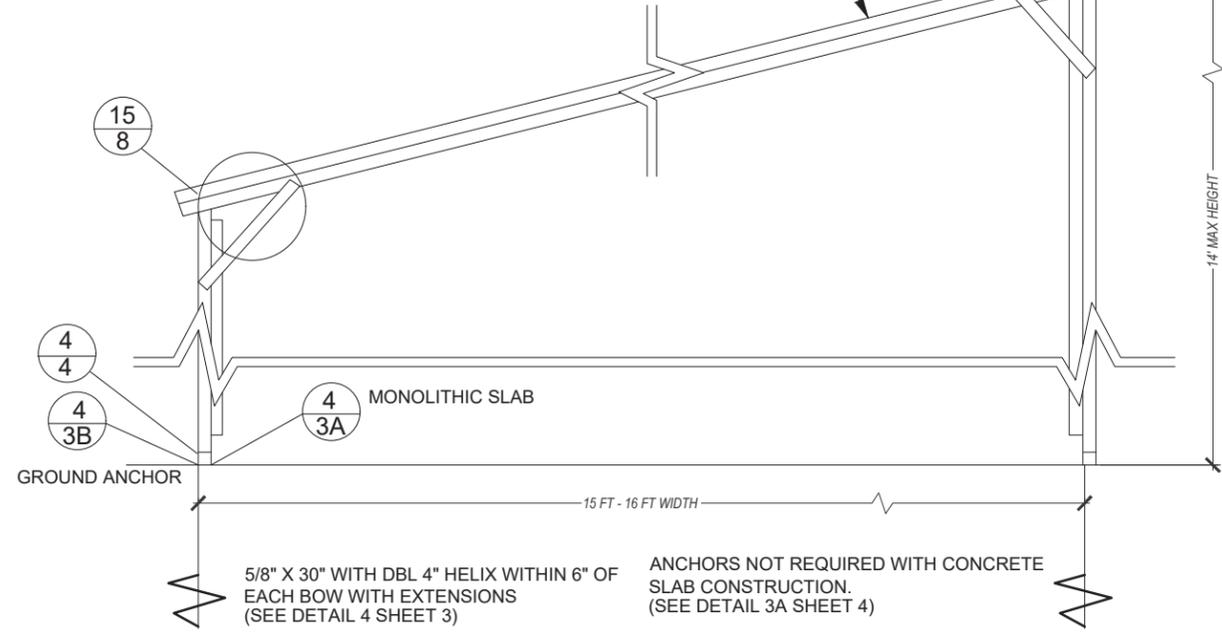
26 OR 29 GA. METAL ROOF PANELS
FASTENED TO BOW FRAME WITH 1/4" X 3/4" SDF'S
WITH CONTROL SEAL WASHER.
(SEE TABLE 1 FOR FASTENER SPACING)



14 FT MAX WIDTH FREESTANDING LEAN-TO
SCALE: NTS

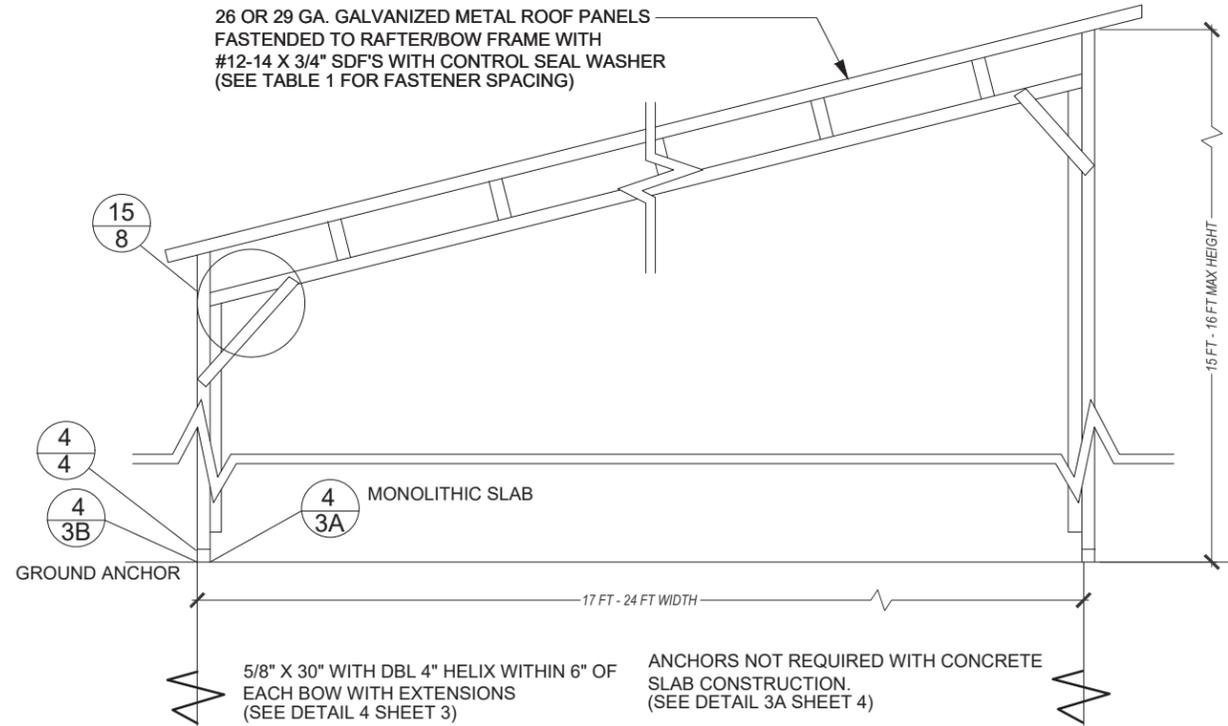
OPTIONAL SLOPES:
1:12
2:12
3:12

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)



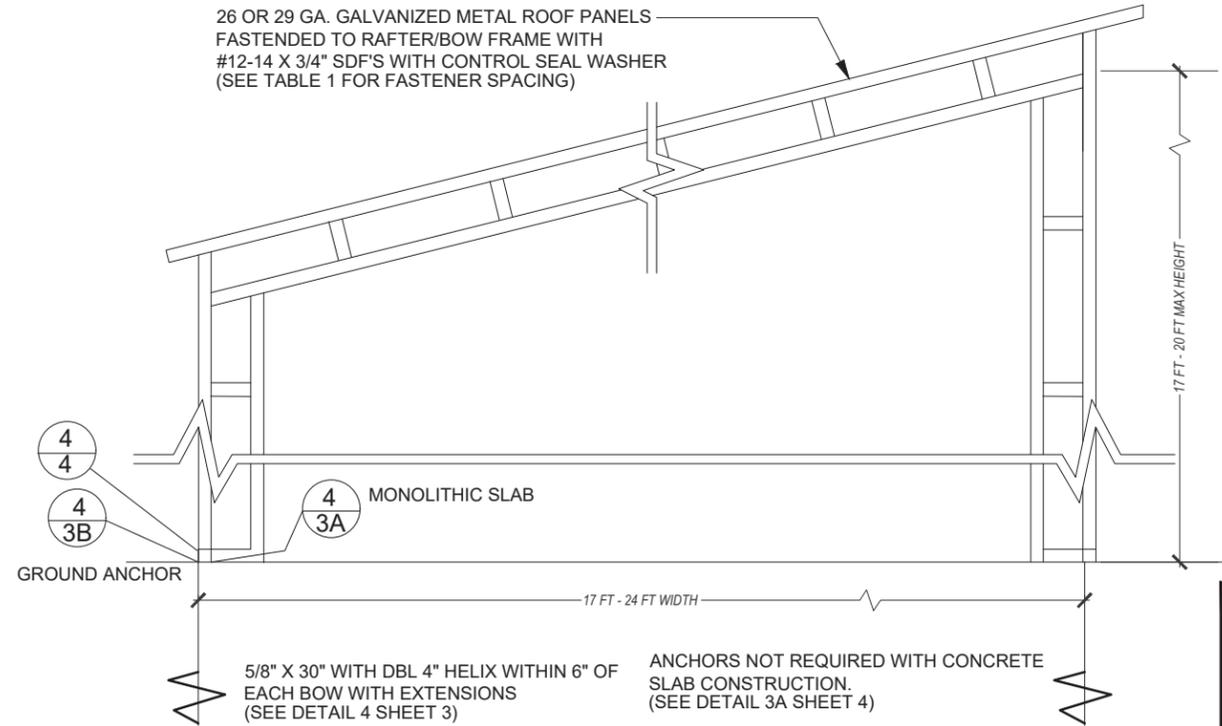
15 FT - 16 FT WIDTH FREESTANDING LEAN-TO LEAN-TO
SCALE: NTS

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

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)



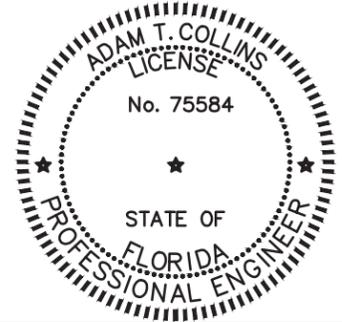
17 FT - 24 FT WIDTH FREESTANDING LEAN-TO LEAN-TO
SCALE: NTS

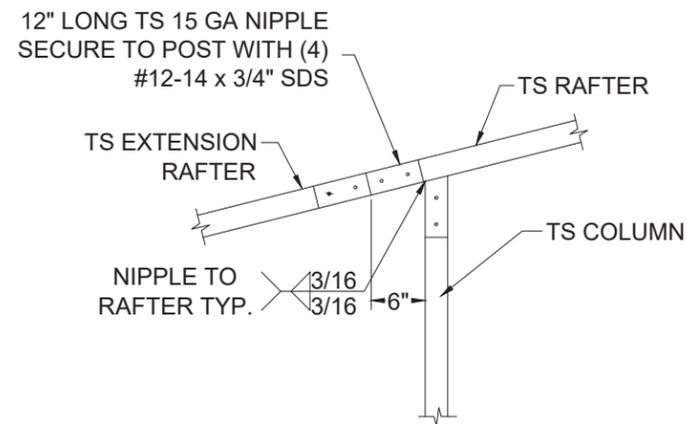
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NO.	REVISIONS	DATE	DATE	#	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
				20201021			ADAM COLLINS	ELITE METAL MANUFACTURING	FREESTANDING BOX EAVE RAFTER LEAN-TO OPTIONS	Traci Pace	S-9
							SM	10121 88TH TRACE		235 NW Edgar Ter	SCALE
							DMC			Lake City, FL 32055	AS-SHOWN
							ATC				
							JOB No. 22047				

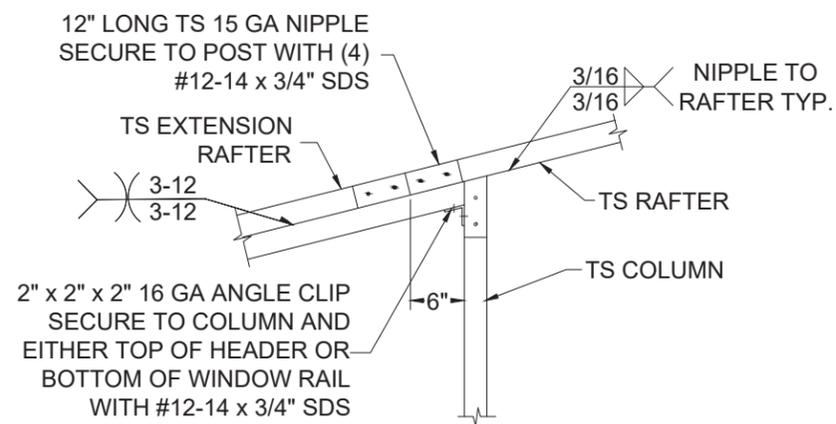


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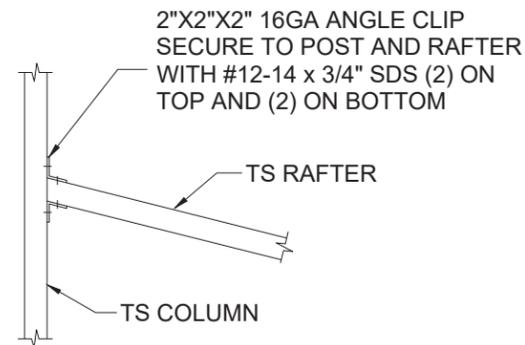




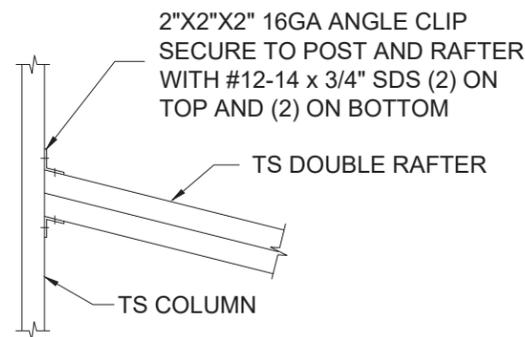
16A SIDE EXTENSION RAFTER/POST CONNECTION
 RAFTER SPAN LESS THAN 12'-0"
 SCALE: NTS



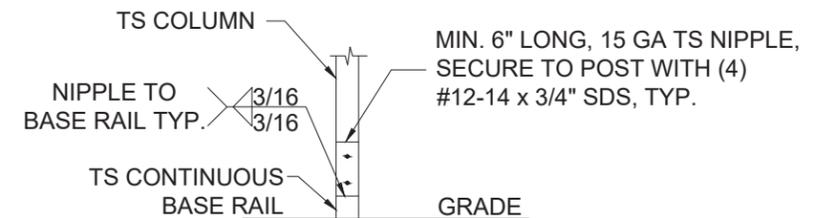
16B SIDE EXTENSION RAFTER/POST CONNECTION
 RAFTER SPAN BETWEEN 12'-0" AND 16'-0"
 SCALE: NTS



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

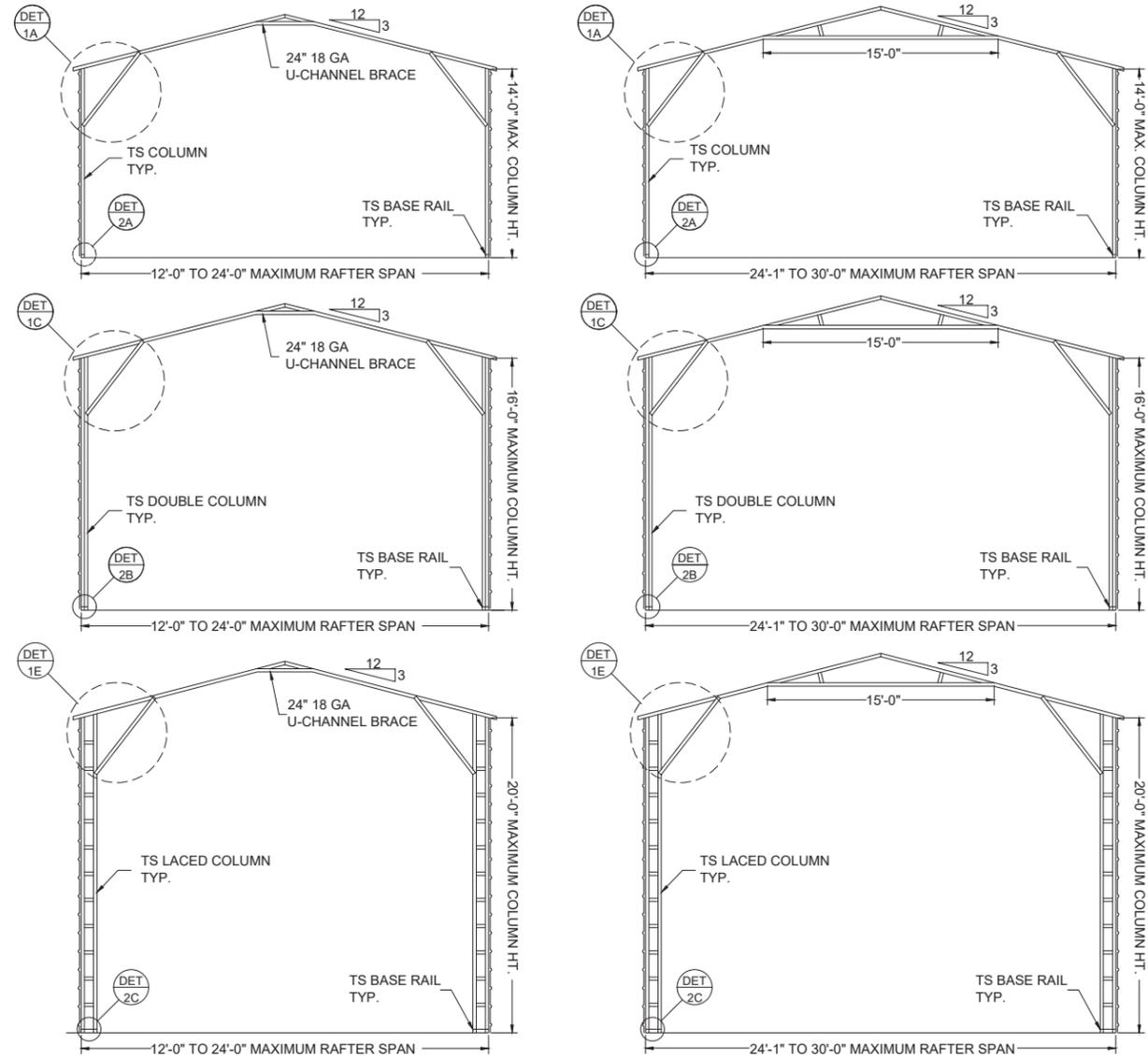
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NO.	REVISIONS	DATE	DATE	2026.02.11	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			 ADAM COLLINS ENGINEERING INC. CA# 31728 - P: 386.320.7400 - WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	CONNECTION DETAILS (4 OF 4)	Traci Pace 235 NW Edgar Ter Lake City, FL 32055	S-10
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

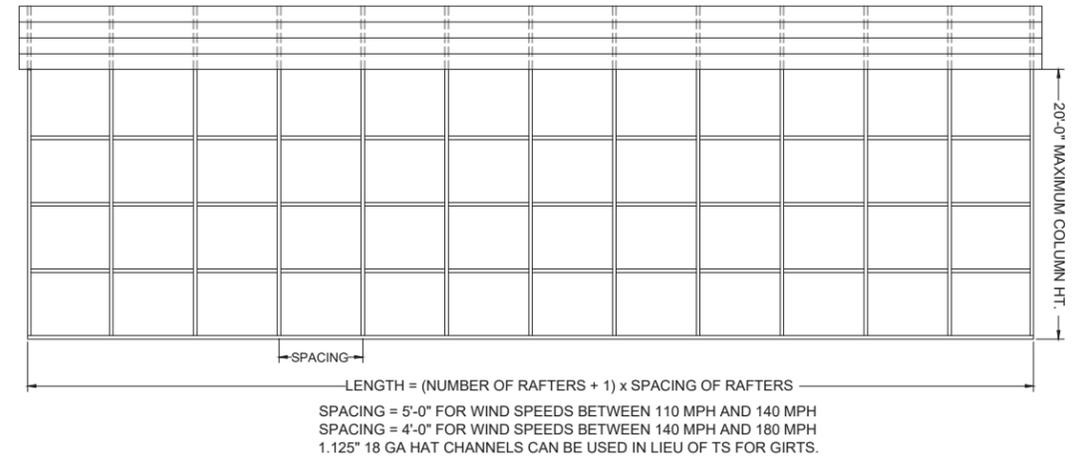
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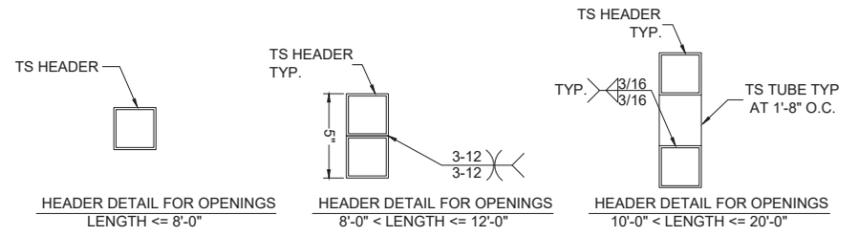
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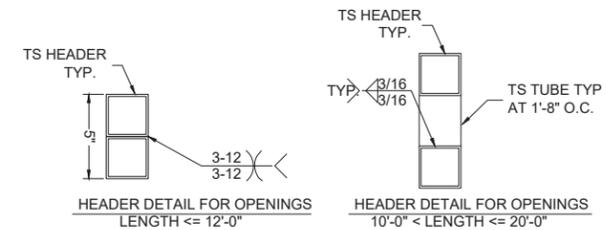
BOX EAVE FRAME
SCALE: NTS



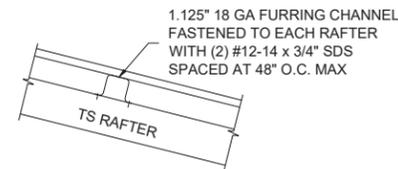
TYPICAL SIDE FRAME SECTION
SCALE: NTS



SIDE WALL OPTION HEADER
SCALE: NTS



END WALL OPTION HEADER
SCALE: NTS



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

NO.	REVISIONS	DATE	DATE	2026.02.11	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			<p>ADAM COLLINS ENGINEERING INC. CA# 31728 - P: 386.320.7400 - WWW.COLLINSENG.COM</p>	<p>ELITE METAL MANUFACTURING 10121 88TH TRACE</p>	<p>BOX EAVE RAFTER VERTICAL ROOF-SIDING OPTION</p>	<p>Traci Pace 235 NW Edgar Ter Lake City, FL 32055</p>	S-11
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							

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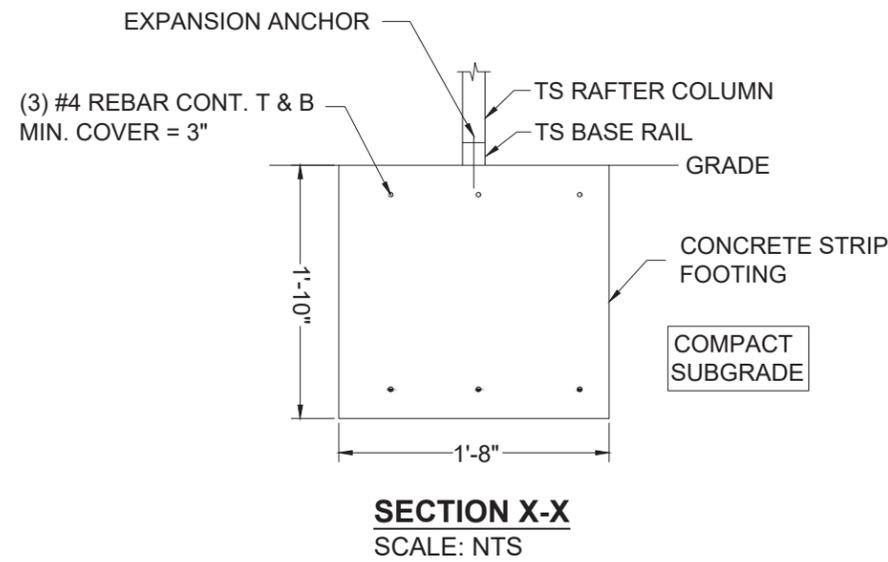
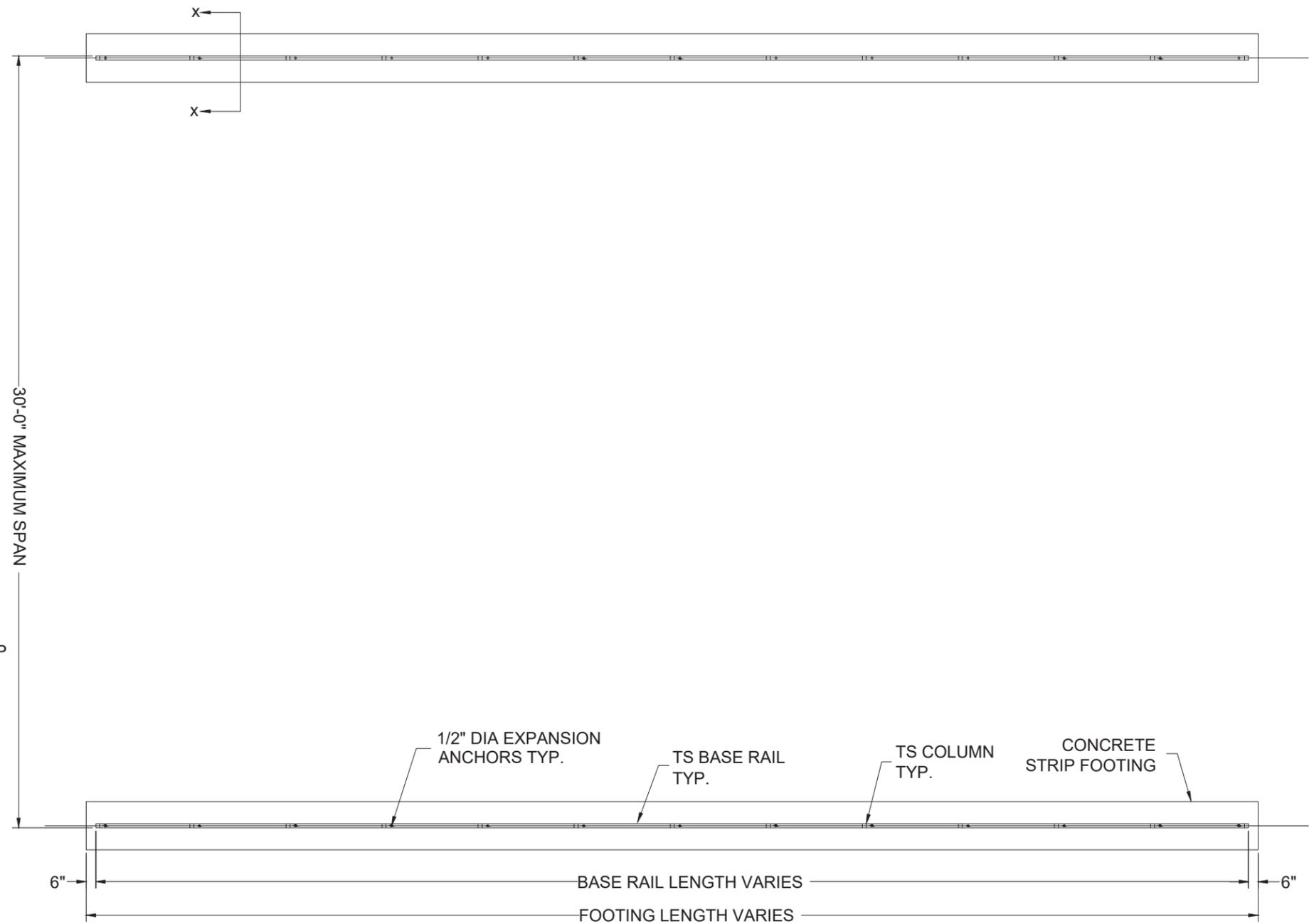
ADAM T. COLLINS
LICENSE
No. 75584
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

GENERAL NOTES

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

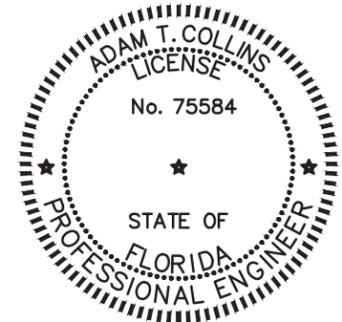
REINFORCING STEEL

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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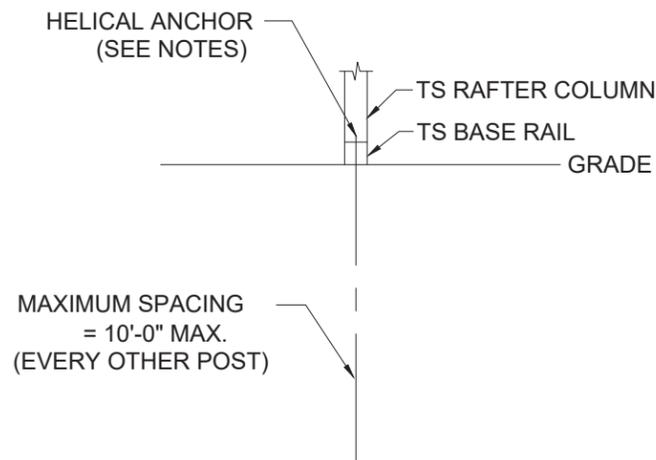
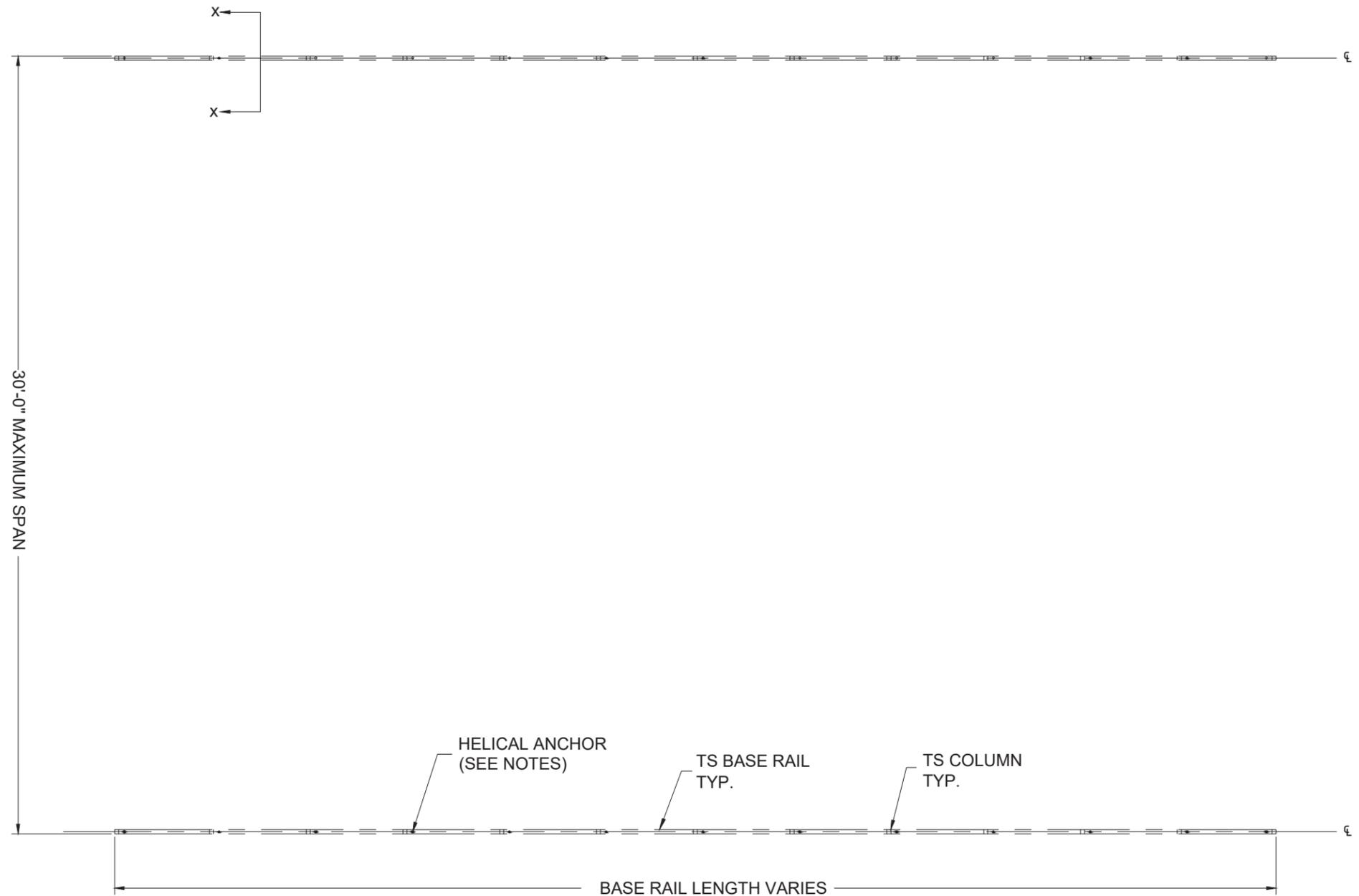


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NO.	REVISIONS	DATE	DATE	2026.02.11	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			ADAM COLLINS ENGINEERING INC. CA# 31728 - P: 386.320.7400 - WWW.COLLINSENG.COM	ELITE METAL MANUFACTURING 10121 88TH TRACE	OPTIONAL CONCRETE STRIP FOOTING	Traci Pace 235 NW Edgar Ter Lake City, FL 32055	S-12
			DESIGNED	DMC		SCALE					
			CHECKED	ATC		AS-SHOWN					
			JOB No.	22047							

HELIX ANCHOR NOTES

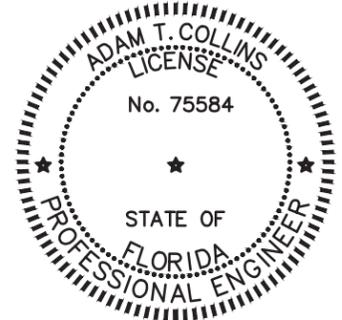
1. USE MINIMUM (2) 4" HELICES WITH 30" EMBEDMENT FOR THE FOLLOWING SOILS:
 - 1.1. VERY DENSE AND/OR CEMENTED SANDS
 - 1.2. COARSE GRAVEL AND COBBLES
 - 1.3. CALICHE
 - 1.4. PRELOADED SILTS AND CLAYS
 - 1.5. CORALS
 - 1.6. MEDIUM DENSE COARSE SANDS
 - 1.7. SANDY GRAVEL
 - 1.8. VERY STIFF SILTS AND CLAYS
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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NO.	REVISIONS	DATE	DATE	2026.02.11	SUBMITTALS	DATE	PREPARED BY	CLIENT	SHEET TITLE	PROJECT	SHEET NO.
			DRAWN	SM			<p>ADAM COLLINS ENGINEERING INC. CA# 31728 - P. 386.320.7400 - WWW.COLLINSENG.COM</p>	ELITE METAL MANUFACTURING 10121 88TH TRACE	OPTIONAL HELICAL ANCHORING DETAIL	Traci Pace 235 NW Edgar Ter Lake City, FL 32055	S-13
			DESIGNED	DMC							SCALE
			CHECKED	ATC							AS-SHOWN
			JOB No.	22047							