

APPLICABLE CODES AND STANDARDS

- 1. 2023 FLORIDA BUILDING CODE (8TH EDITION)
- 2. 2021 INTERNATIONAL BUILDING CODE
- 3. ASCE 7-16: 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. MAXIMUM ROOF PITCH 4:12
- 2. END WALL COLUMNS (POST) AND SIDE WALL COLUMNS ARE IDENTICAL, 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. 29 GA METAL PANELS SHALL BE FASTENED DIRECTLY TO 18 GA HAT CHANNELS, U.N.O.
- 4. FASTENER SPACING ALONG RAFTERS OR PURLINS, AND POSTS SHALL BE AS FOLLOWS: INTERIOR - 9" O.C., END - 6" O.C.
- 5. 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 AND ROOF SLOPES OF 18° (4:12 PITCH) OR LESS. SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS/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) CONSISTING OF 30" LONG #4 REBAR WITH WELDED NUT MAY BE USED IN SUITABLE SOILS AND WIND SPEEDS LESS THAN OR EQUAL TO 145 MPH.

DESIGN LOADS

DEAL LOAD	15 PSF
LIVE LOAD	20 PSF
NOMINAL WIND SPEED	108 MPH
ULTIMATE WIND SPEED	140 MPH
WIND EXPOSURE	B
RISK CATEGORY	II
ENCLOSURE CLASSIFICATION	ENCLOSED
OCCUPANCY CLASSIFICATION	S-2

SPACING SPECIFICATIONS						
RISK CATEGORY	WIND EXPOSURE CATEGORY	ULT WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM RAFTER/BOW AND END POST SPACING (FT)	FASTENER SPACING O.C. FOR RAFTERS/PURLINS & POSTS (IN)	
					INTERIOR	END
I, II, III, or IV	B, C, or D	115–150	89–116	5	6	6
		151–180	117–139	4	6	6

NOTES:

1. SPECIFICATIONS APPLICABLE TO 26 OR 29 GA METAL PANELS FASTENED DIRECTLY TO 12 OR 14 GA STEEL TUBE FRAMES.

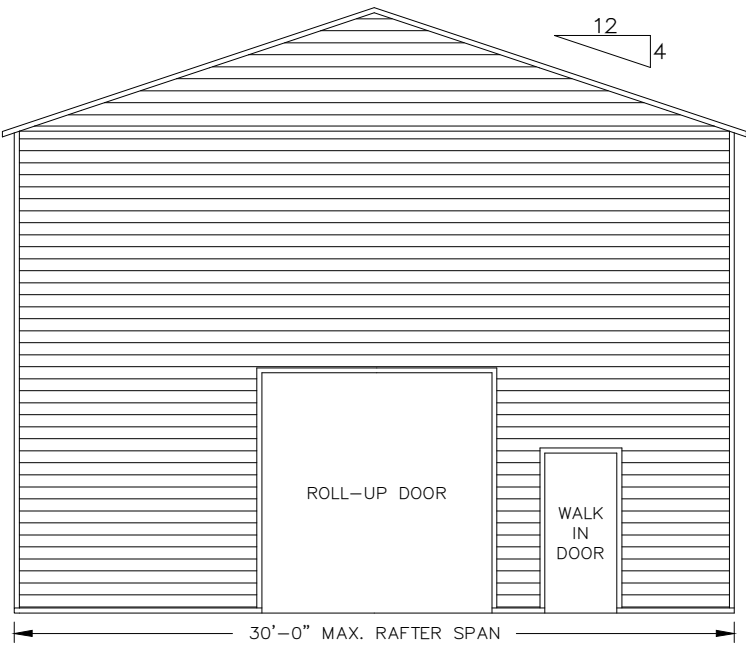
2. FASTENERS CONSIST OF #12–14 x 3/4" SELF-DRILLING SCREWS WITH CONTROL SEAL WASHER.

3. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 4:12 PITCH. SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS/SLOPES MAY VARY.

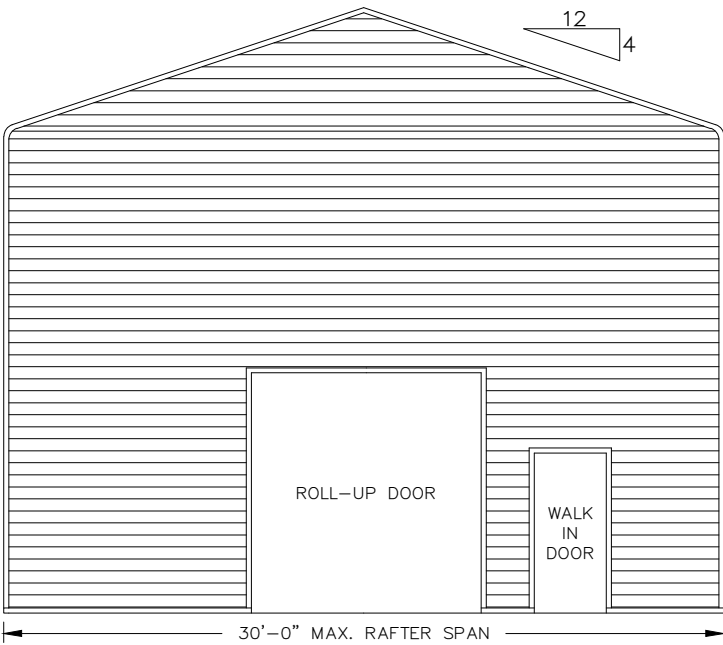
4. GROUND ANCHOR REQUIREMENTS ARE 1 @ EACH CORNER AND ONE EVERY OTHER INTERIOR BOW/RAFTER POST LOCATION, AT MAXIMUM OF 10' O.C., AND BOTH SIDES OF OPENINGS WHERE BASE RAIL IS ABSENT.

5. GROUND ANCHORS ARE NOT REQUIRED WITH CONCRETE SLAB CONSTRUCTION.

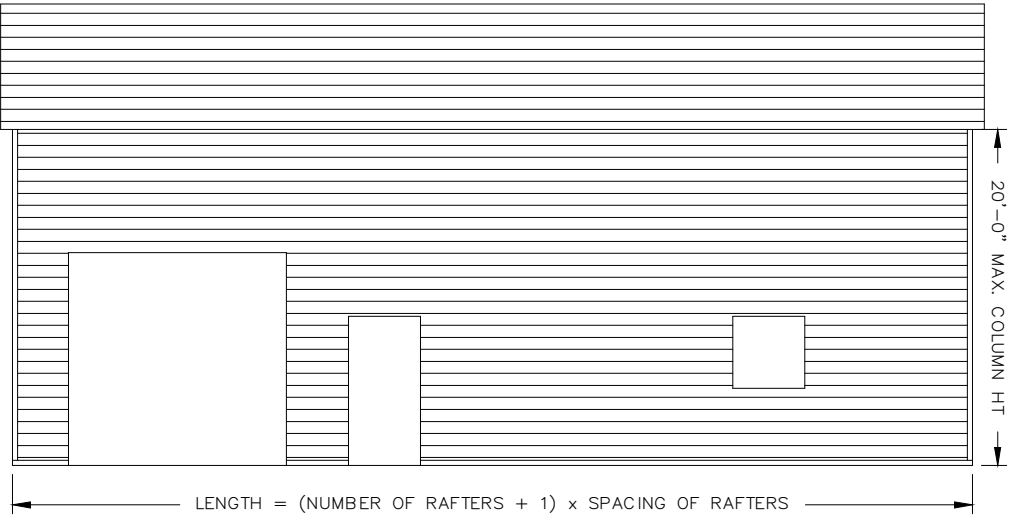
ENCLOSED METAL BUILDING
24FT WIDE x 30FT LONG x 11FT EAVE HT.



TYPICAL ELEVATION - BOX EAVE
SCALE: NTS



TYPICAL ELEVATION - BOW EAVE
SCALE: NTS



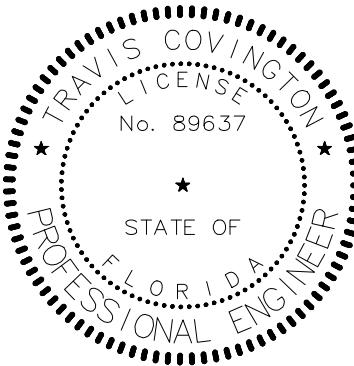
TYPICAL SIDE ELEVATION
SCALE: NTS

MEMBER	PRODUCT APPROVAL NUMBER	MAX WIND DESIGN PRESSURES
ROOF PANELS	FL39466.1/FL39466.2	+41.6 PSF / -31.2 PSF
WALL PANELS	FL39594.1/FL39594.2	+55.4 PSF / -41.6 PSF
GARAGE DOOR	CTP	CTP
WALK-IN DOOR	CTP	CTP

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SHEET NO.	DESCRIPTION
S.1	GENERAL NOTES & SPECIFICATIONS
S.2	BOX/BOW EAVE TYPICAL FRAMING SECTIONS
S.3	CONNECTION DETAILS (1 OF 2)
S.4	BASE RAIL & ANCHORAGE DETAILS
S.5	END WALL, SIDE WALL, & OPENING TYPICAL FRAMING
S.6	CONNECTION DETAILS (2 OF 2)
S.7	BOX EAVE LEAN-TO OPTIONS
S.8	FREESTANDING LEAN-TO OPTIONS
S.9	VERTICAL ROOF-SIDING OPTION
S.10	OPTIONAL CONCRETE STRIP FOOTING DETAILS
S.11	OPTIONAL HELICAL ANCHORAGE DETAILS

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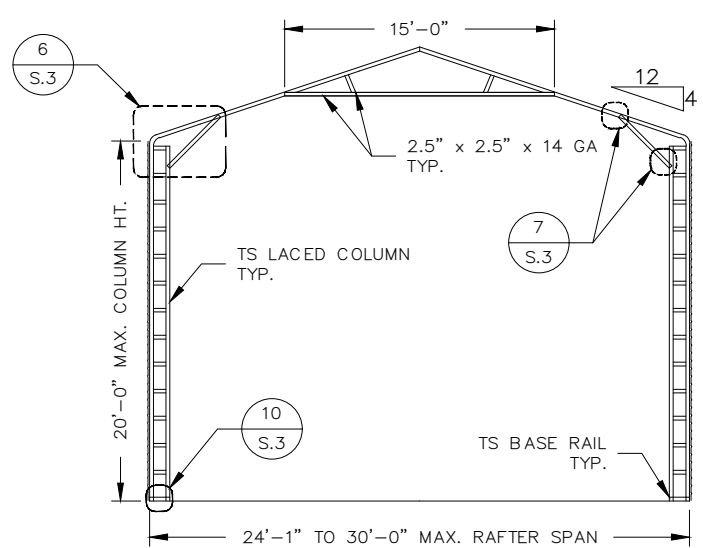
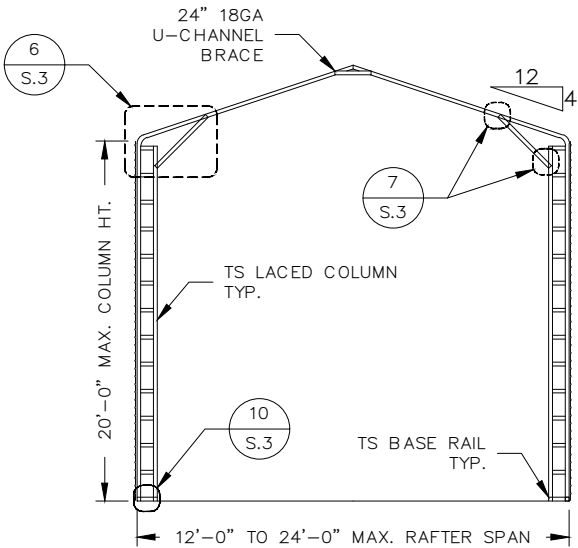
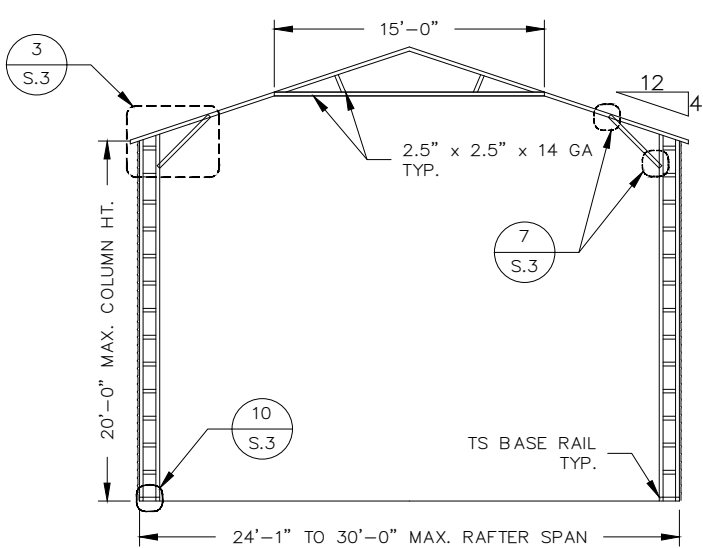
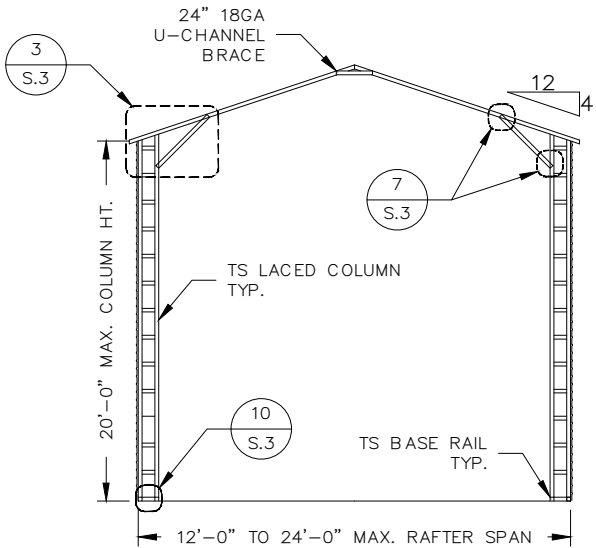
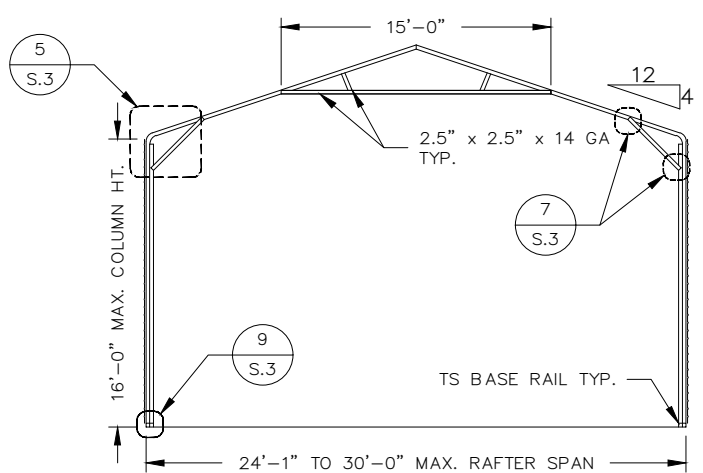
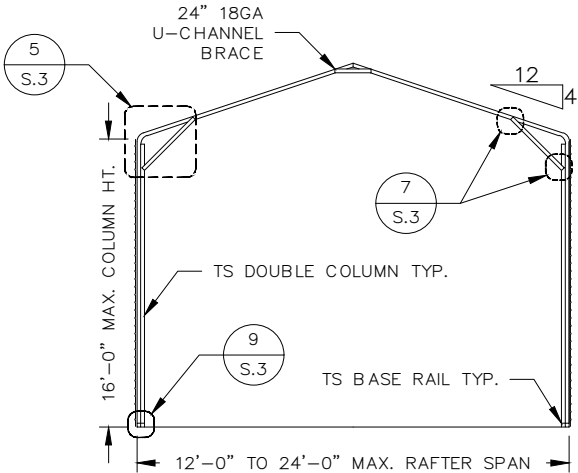
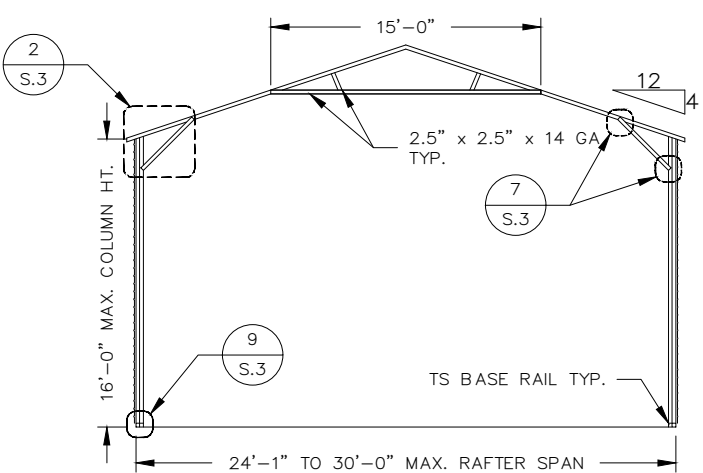
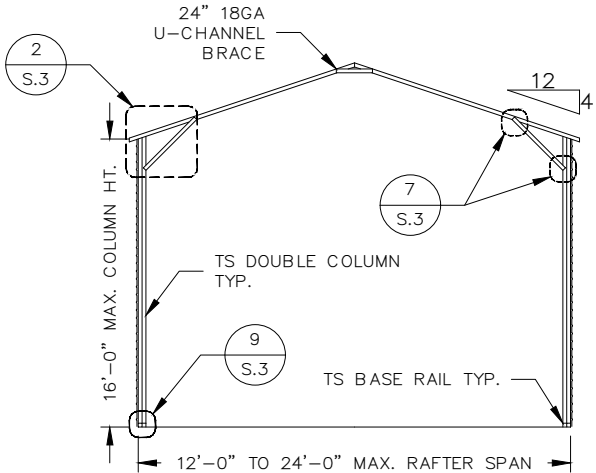
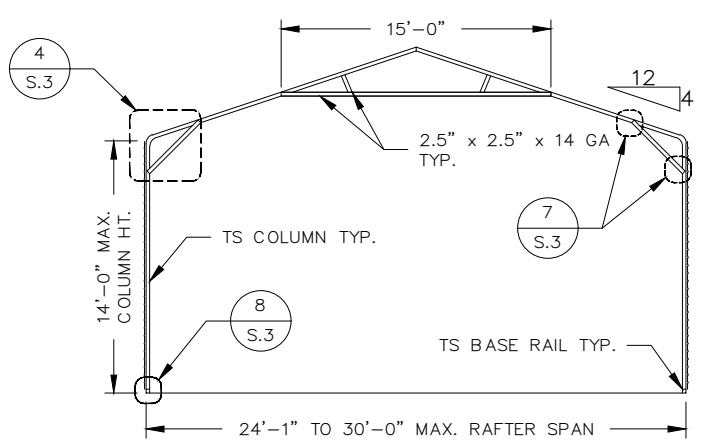
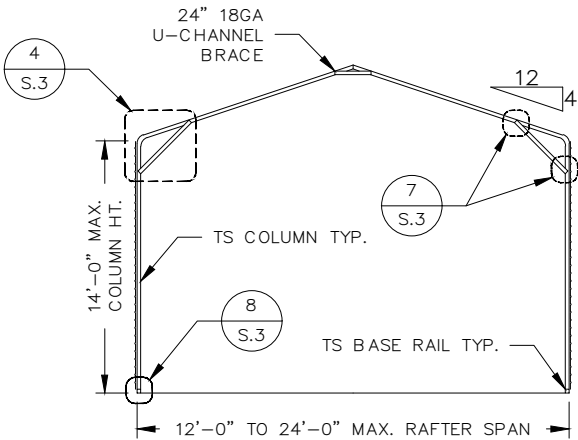
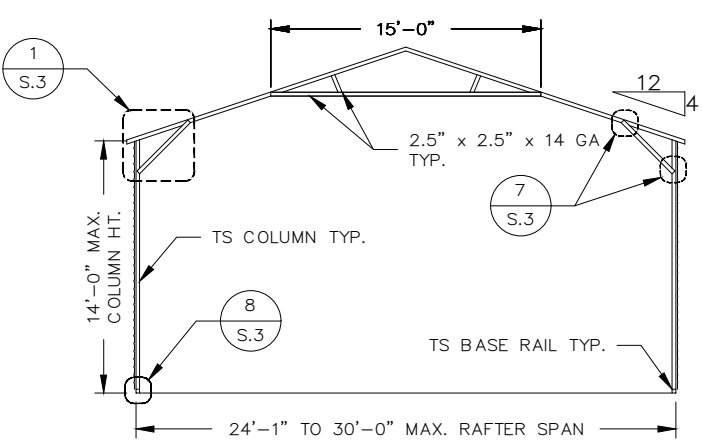
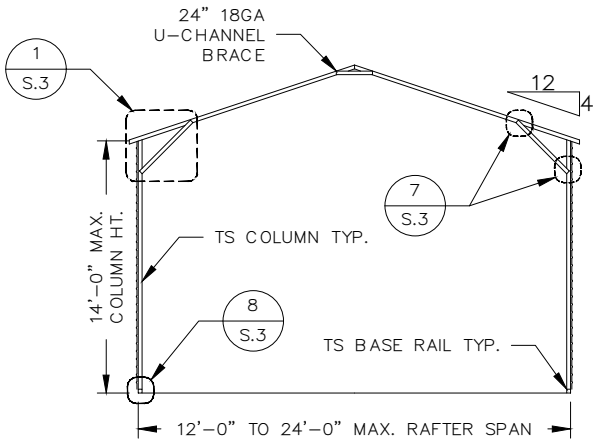
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NO.	DESCRIPTION	DATE

COVINGTON ENGINEERING SERVICES
272 NW COUNTRY LAKE DR, LAKE CITY, FL 32055
813.770.9470
TRAVIS@COVINGTONENG.COM

PROJECT:	BETHEA METAL BUILDING
CLIENT:	KENNY BETHEA
LOCATION:	1465 NE VOSS RD, LAKE CITY, FL
JOB NO:	E034

GENERAL NOTES & SPECIFICATIONS

SCALE:	SHEET NO:
AS NOTED	S.1

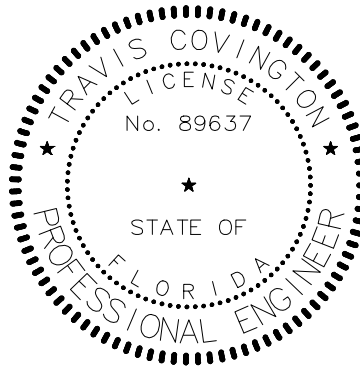


BOX EAVE FRAMING
SCALE: NTS

BOW EAVE FRAMING
SCALE: NTS

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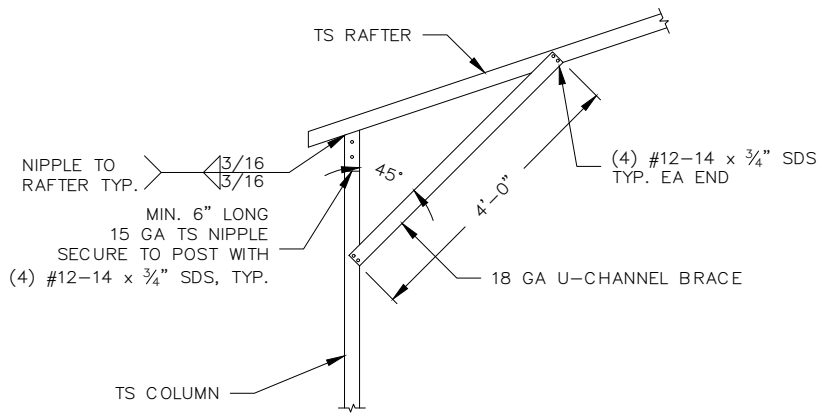


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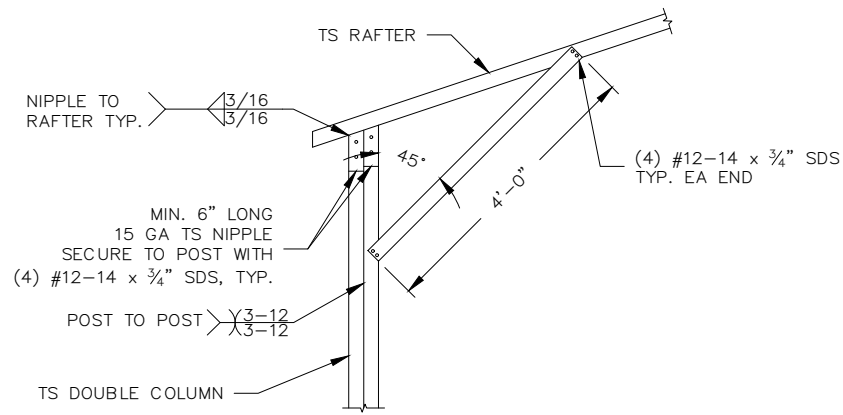
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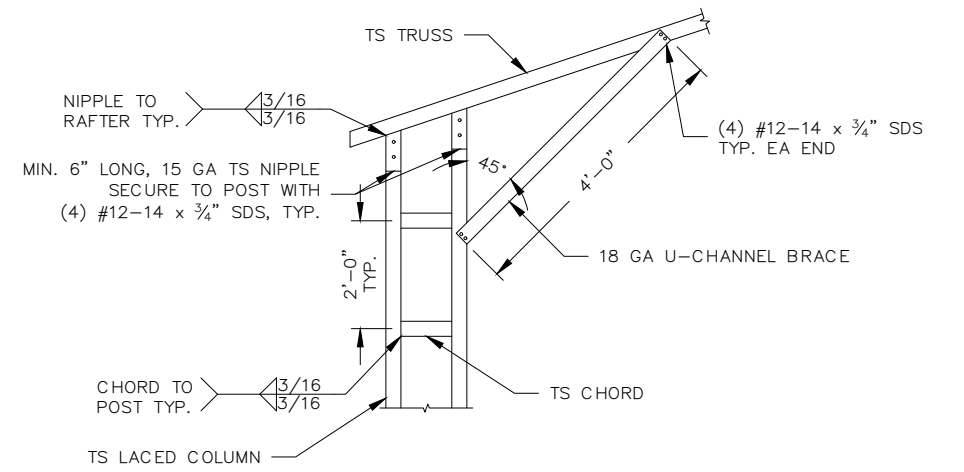
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SCALE:	SHEET NO:
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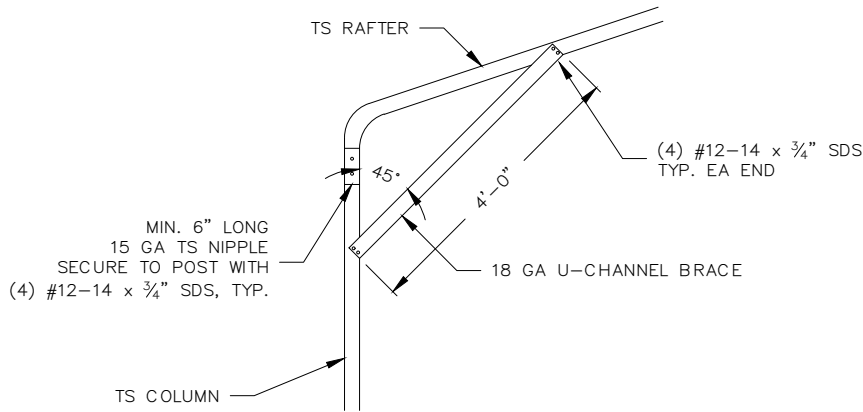
1 BOX EAVE RAFTER/CORNER POST CONNECTION
MAX. 30' WIDTH, MAX. 14' EAVE HT
SCALE: NTS



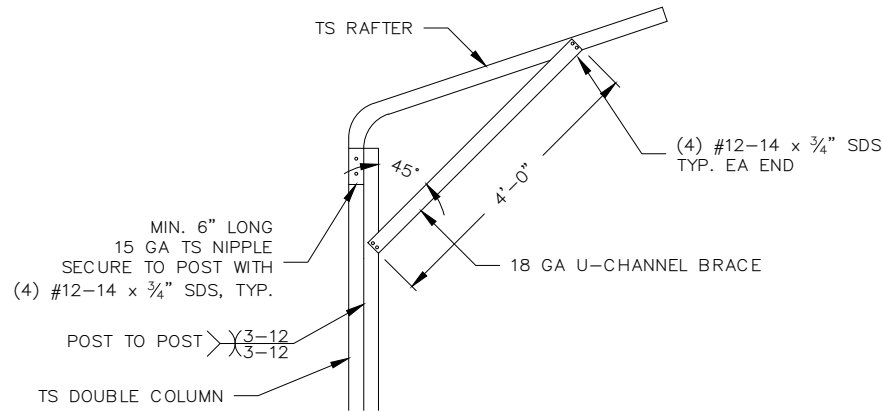
2 BOX EAVE RAFTER/CORNER POST CONNECTION
MAX. 30' WIDTH, MAX. 16' EAVE HT
SCALE: NTS



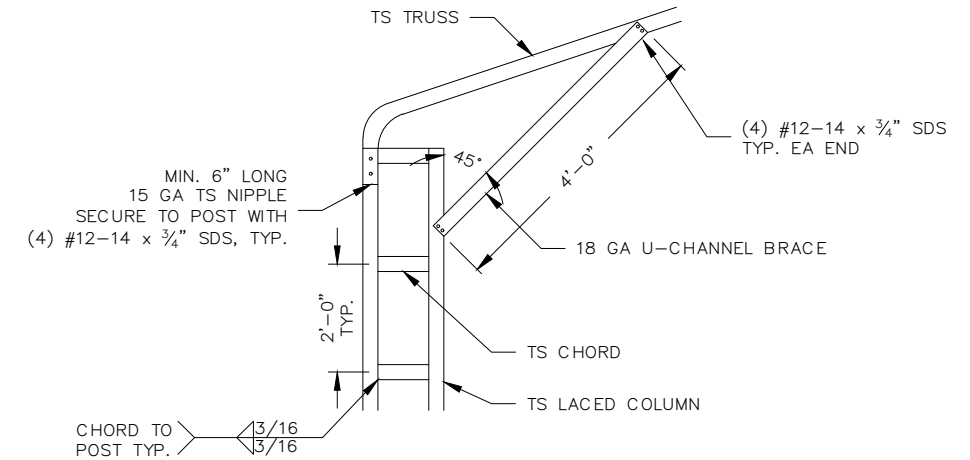
3 BOX EAVE RAFTER/CORNER POST CONNECTION
MAX. 30' WIDTH, MAX. 20' EAVE HT
SCALE: NTS



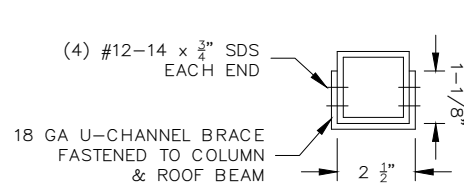
4 BOW EAVE RAFTER/CORNER POST CONNECTION
MAX. 30' WIDTH, MAX. 14' EAVE HT
SCALE: NTS



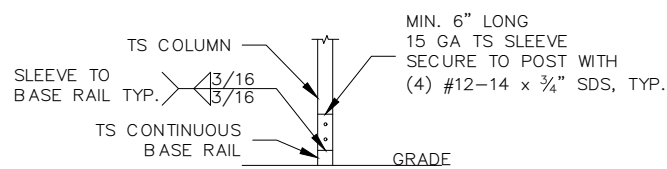
5 BOW EAVE RAFTER/CORNER POST CONNECTION
MAX. 30' WIDTH, MAX. 16' EAVE HT
SCALE: NTS



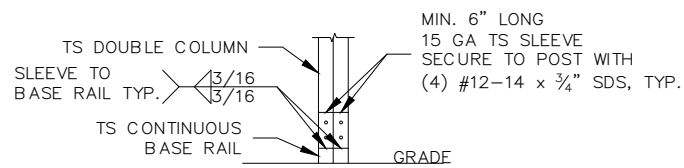
6 BOW EAVE RAFTER/CORNER POST CONNECTION
MAX. 30' WIDTH, MAX. 20' EAVE HT
SCALE: NTS



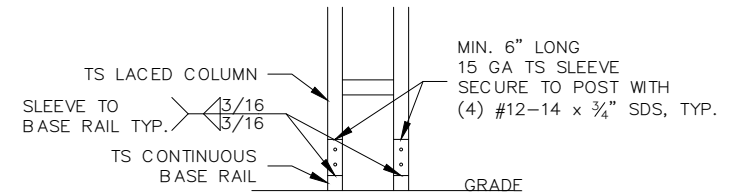
7 BRACE CONNECTION DETAIL
SCALE: NTS



8 POST/BASE RAIL CONNECTION
SINGLE COLUMN
SCALE: NTS



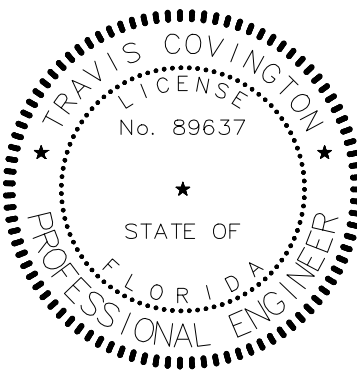
9 POST/BASE RAIL CONNECTION
DOUBLE COLUMN
SCALE: NTS



10 POST/BASE RAIL CONNECTION
LACED COLUMN
SCALE: NTS

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813.770.9470
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PROJECT:	BETHEA METAL BUILDING
CLIENT:	KENNY BETHEA
LOCATION:	1465 NE VOSS RD, LAKE CITY, FL
JOB NO:	E034

GENERAL NOTES & SPECIFICATIONS

SCALE:
AS NOTED

SHEET NO:
S.1

GENERAL NOTES

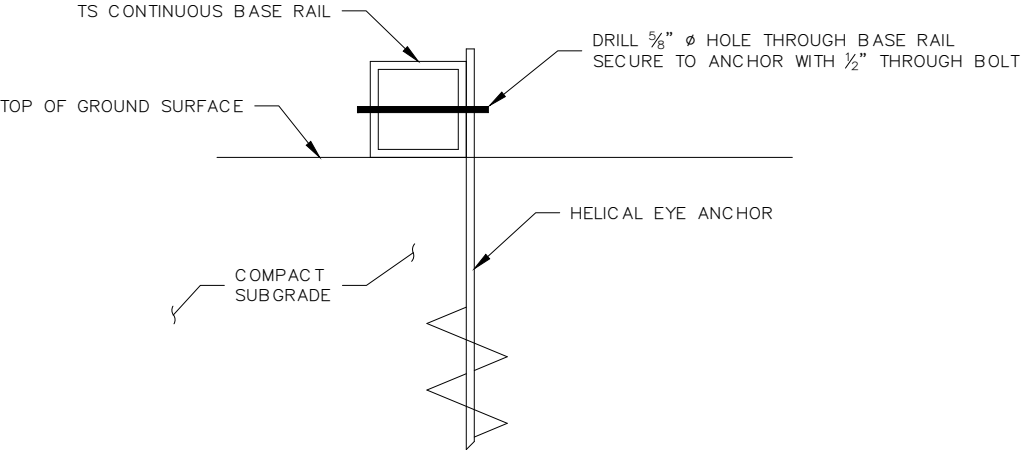
- 1. MINIMUM SOIL BEARING CAPACITY: 1500 PSF
- 2. CONCRETE STRENGTH: 3000 PSI @ 28 DAYS

REINFORCING STEEL NOTES

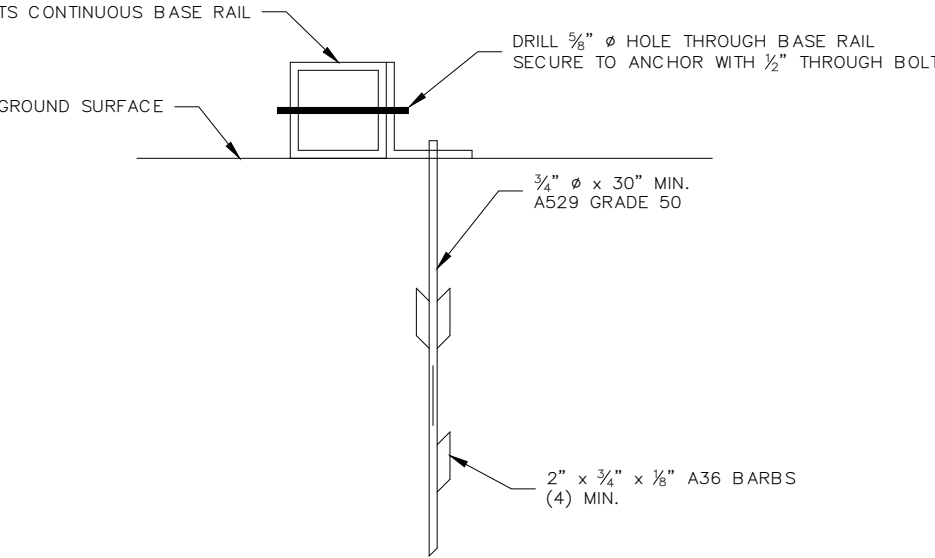
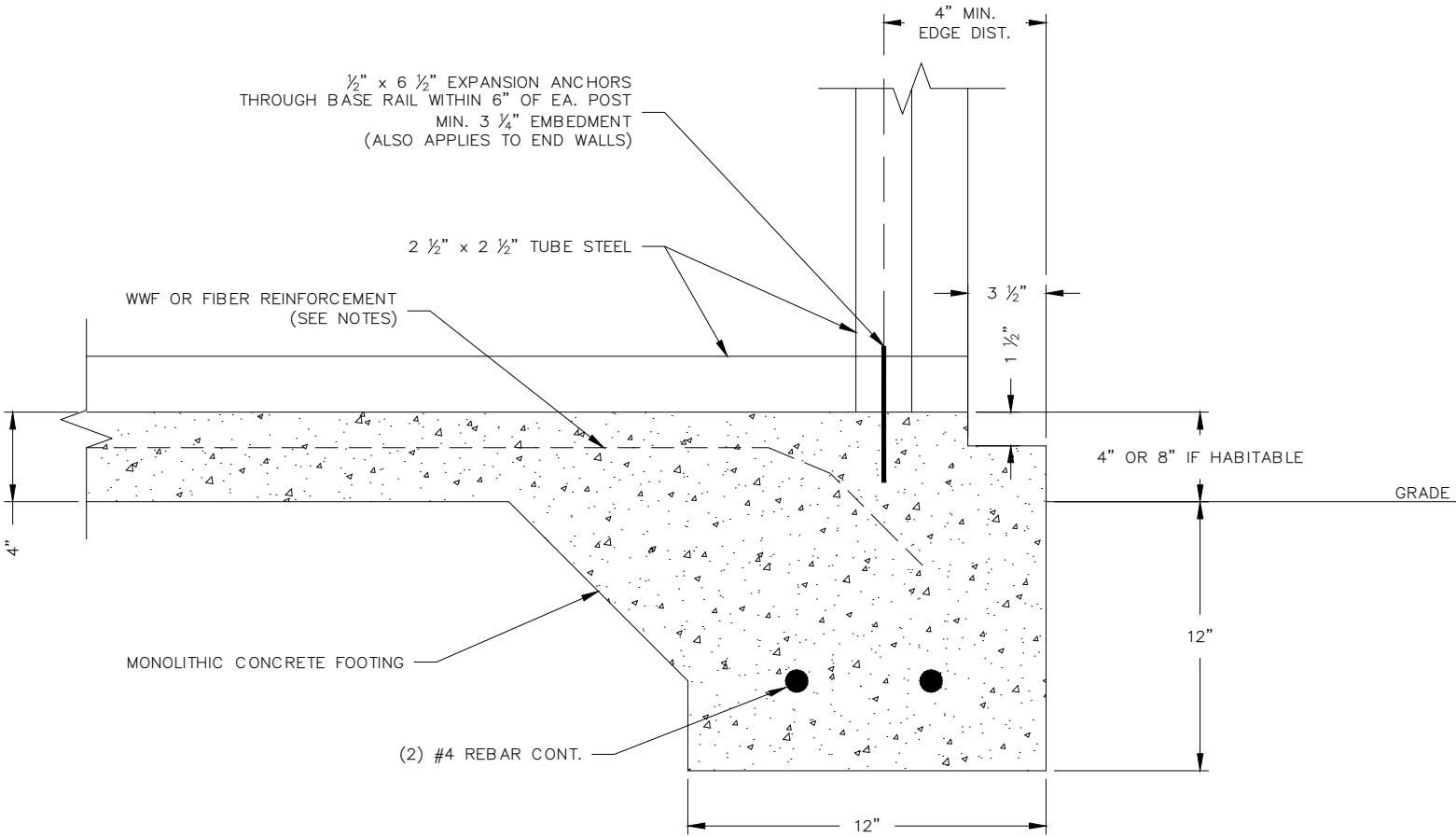
- 1. REBAR SHALL BE ASTM A615 GRADE 60
- 2. SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
- 3. CONCRETE COVER SHALL BE 3" WHERE CONCRETE IS EXPOSED TO SOIL OR WATER; 2" EVERYWHERE ELSE
- 4. REBAR SHALL BE BENT WITHOUT HEATING; MINIMUM BEND LENGTH = 6 x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

HELICAL ANCHOR NOTES

- 1. MINIMUM OF (2) 4" HELICES WITH 30" MIN. EMBEDMENT SHALL BE USED FOR THE FOLLOWING SOILS: VERY DENSE AND OR/OR CEMENTED SOILS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILT AND CLAYS, CORALS, MEDIUM DENSE COARSE SANDS, SANDY GRAVEL, AND VERY STIFF SILTS AND CLAYS
- 2. MINIMUM OF (2) 6" HELICES WITH 48" MIN. EMBEDMENT SHALL BE USED FOR THE FOLLOWING SOILS: LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, AND ALLUVIAL FILL
- 3. MINIMUM OF (2) 8" HELICES WITH 60" MIN. EMBEDMENT SHALL BE USED FOR THE FOLLOWING SOILS: VERY LOOSE TO MEDIUM DENSE SANDS AND FIRM TO STIFFER CLAYS AND SILTS



B GROUND BASE HELICAL ANCHORAGE
SCALE: NTS



C ASPHALT BASE ANCHORAGE
(HP9 BARBED DRIVE ANCHOR)
SCALE: NTS

A BASE RAIL ANCHORAGE
CONCRETE MONOLITHIC SLAB
SCALE: NTS

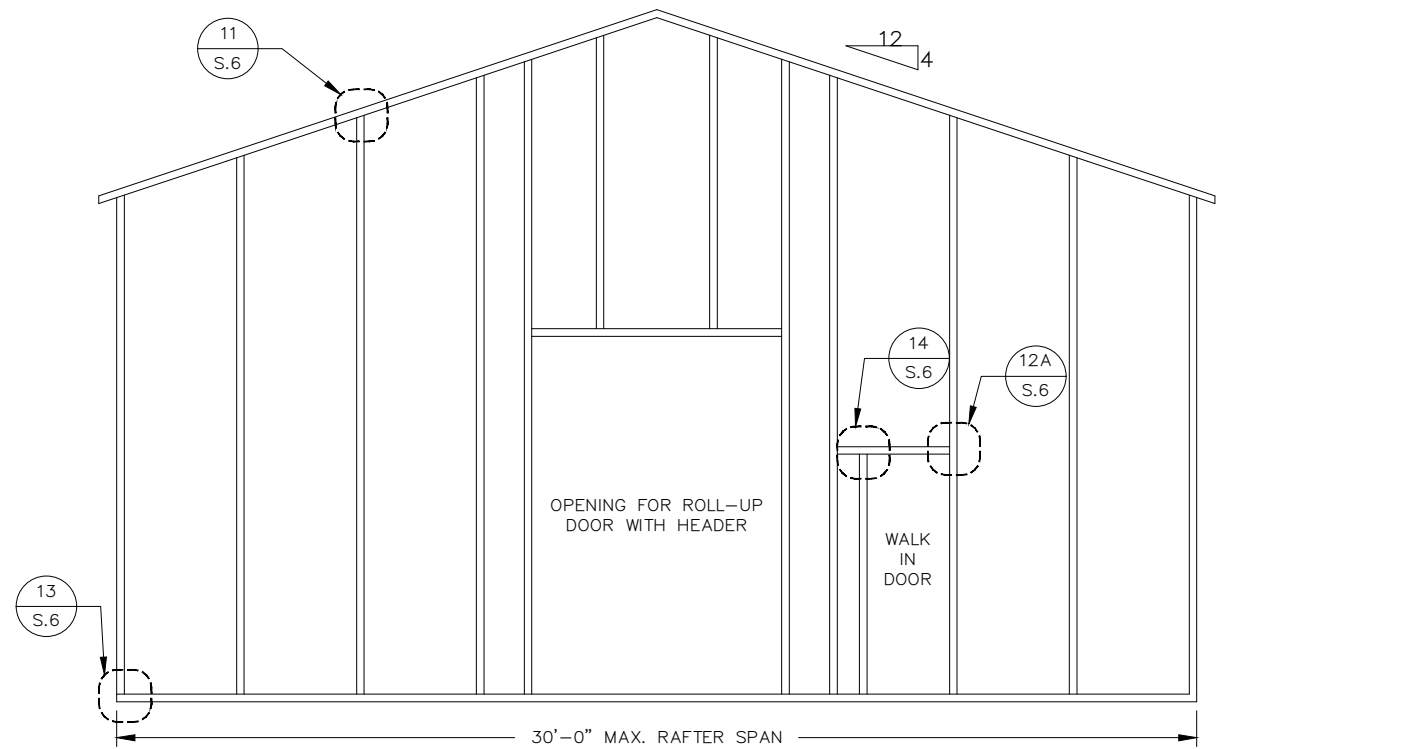
REVISIONS		
NO.	DESCRIPTION	DATE

COVINGTON ENGINEERING SERVICES 272 NW COUNTRY LAKE DR, LAKE CITY, FL 32055 813.770.9470 TRAVIS@COVINGTONENG.COM	PROJECT:	BETHEA METAL BUILDING	GENERAL NOTES & SPECIFICATIONS	
	CLIENT:	KENNY BETHEA		
	LOCATION:	1465 NE VOSS RD, LAKE CITY, FL	SCALE:	SHEET NO:
	JOB NO:	E034	AS NOTED	S.1

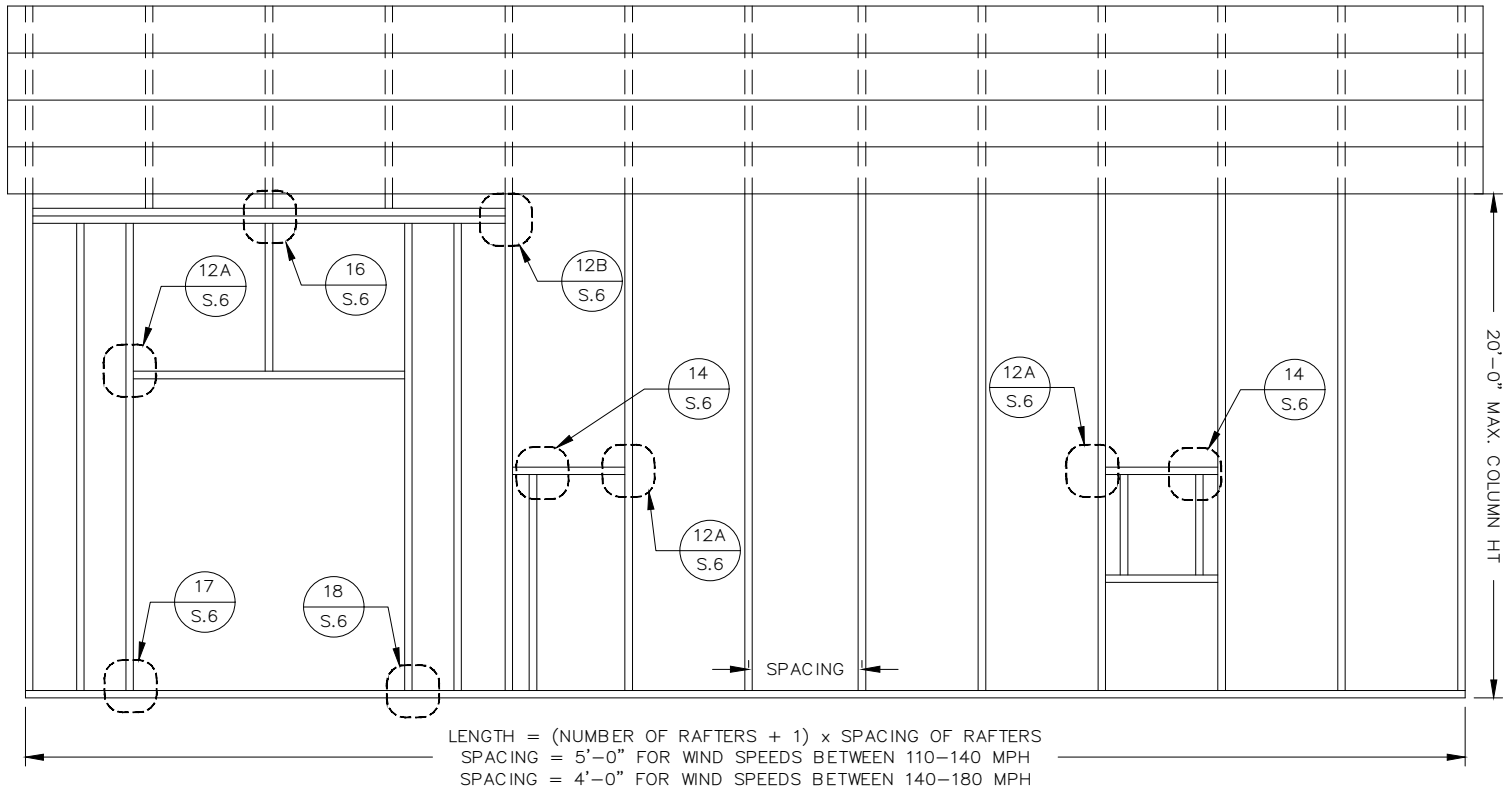
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TYPICAL BOX EAVE RAFTER END WALL FRAMING
SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL FRAMING
SCALE: NTS

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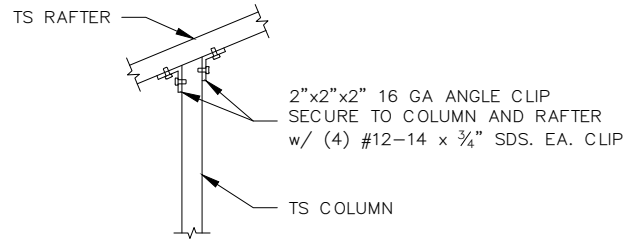
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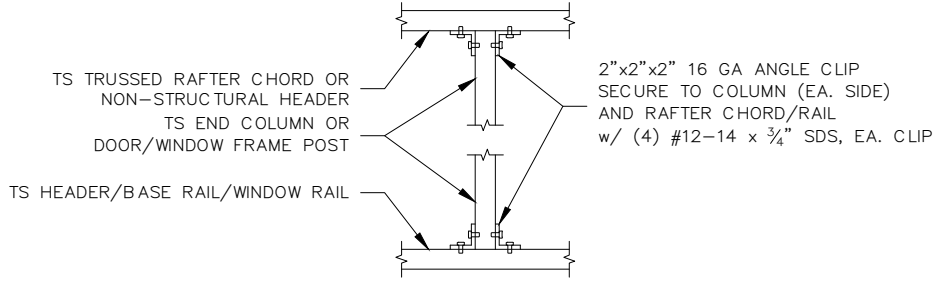
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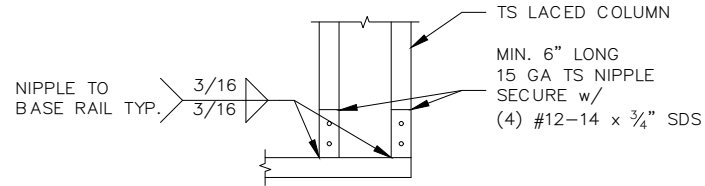
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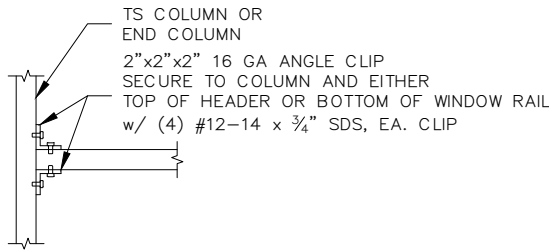
11 TYPICAL POST RAFTER CONNECTION
END WALL FRAMING
SCALE: NTS



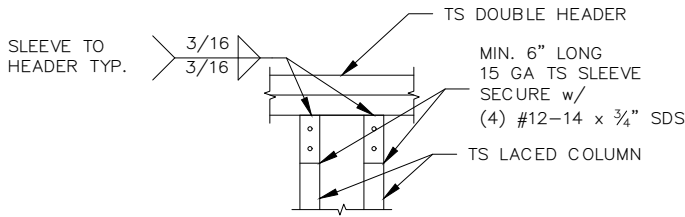
14 POST TO HEADER, BASE RAIL, OR WINDOW
RAIL CONNECTION
SCALE: NTS



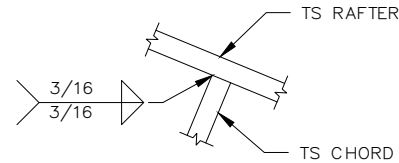
18 LACED COLUMN TO BASE RAIL CONNECTION
SCALE: NTS



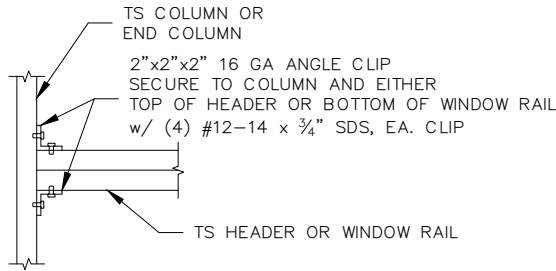
12A HEADER TO POST CONNECTION
SCALE: NTS



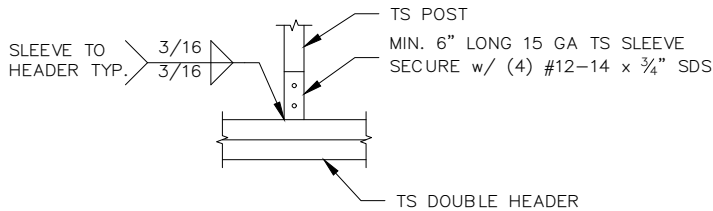
15 DOUBLE HEADER TO
LACED COLUMN CONNECTION
SCALE: NTS



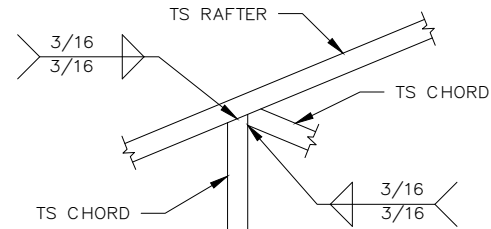
19 RAFTER TO CHORD CONNECTION
SCALE: NTS



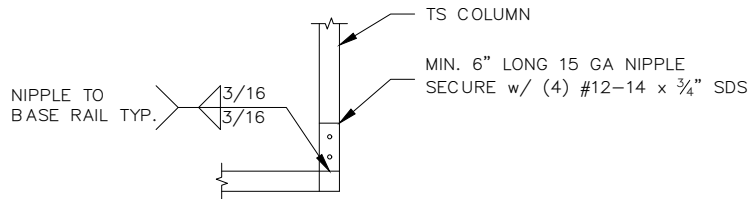
12B DOUBLE HEADER TO POST
HORIZONTAL CONNECTION
SCALE: NTS



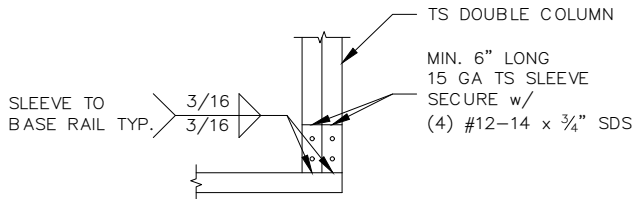
16 DOUBLE HEADER TO POST
VERTICAL CONNECTION
SCALE: NTS



20 RAFTER TO CHORD CONNECTION
SCALE: NTS



13 POST/BASE RAIL CONNECTION
END WALL FRAMING
SCALE: NTS



17 DOUBLE COLUMN TO BASE RAIL CONNECTION
SCALE: NTS

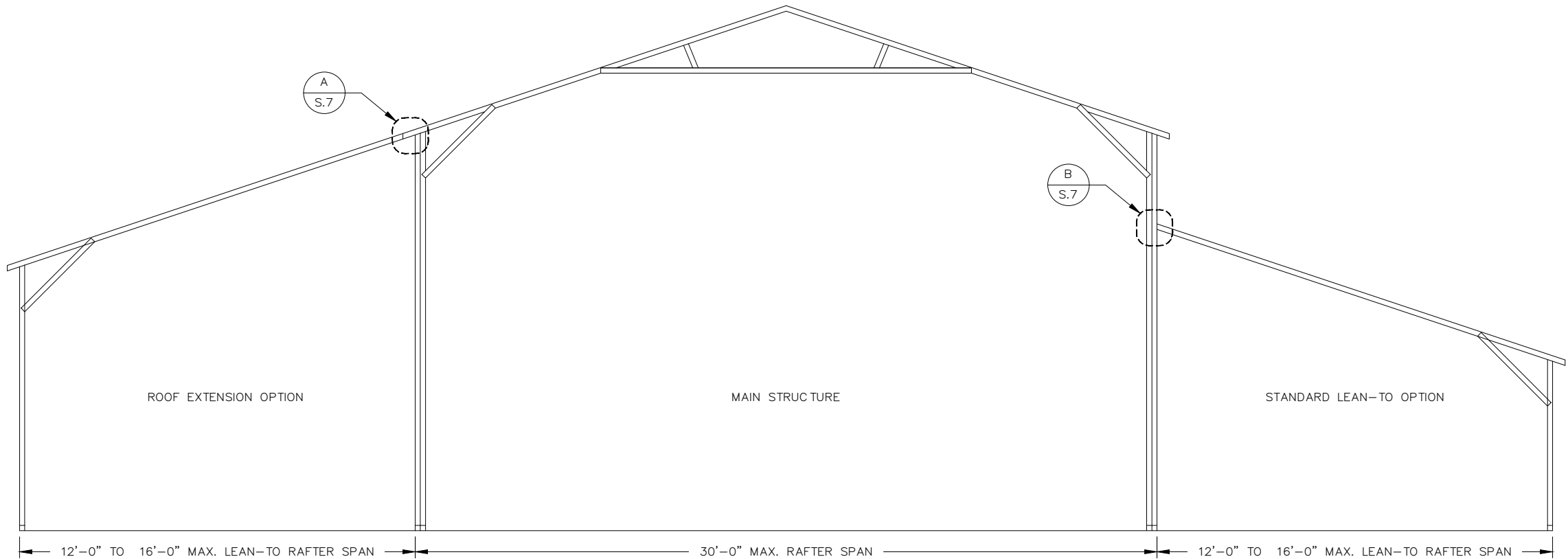
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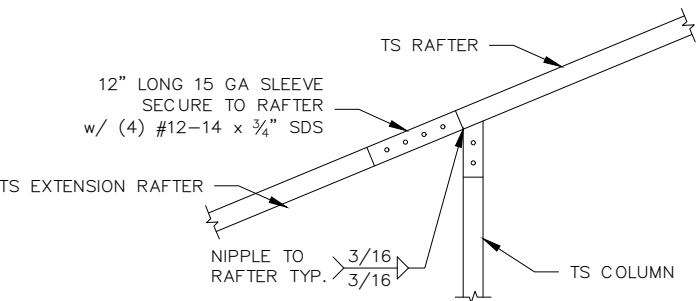
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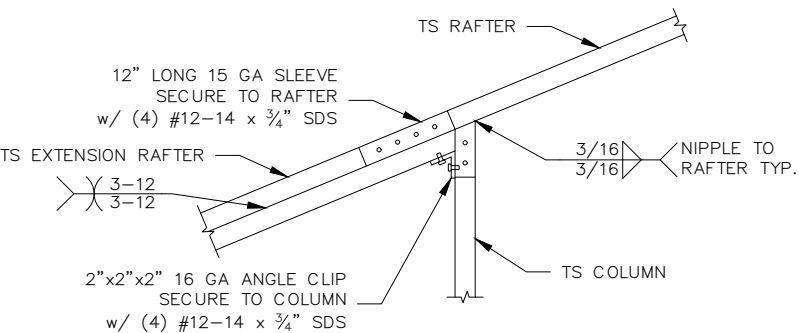
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PROFESSIONAL ENGINEER



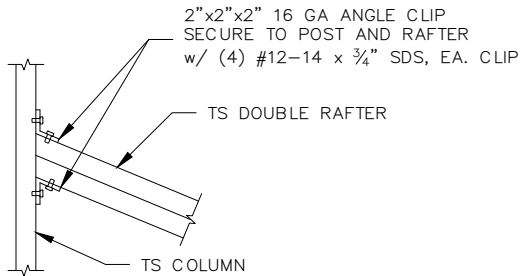
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS
SCALE: NTS



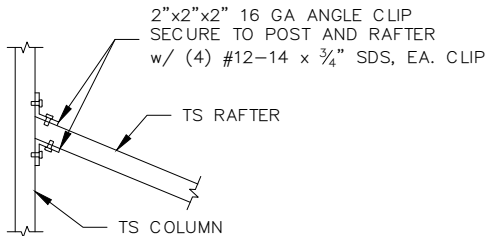
A1 SIDE EXTENSION RAFTER/POST CONNECTION
RAFTER SPAN LESS THAN 12'-0"
SCALE: NTS



A2 SIDE EXTENSION RAFTER/POST CONNECTION
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"
SCALE: NTS



B2 LEAN-TO RAFTER/COLUMN CONNECTION
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"
SCALE: NTS



B1 LEAN-TO RAFTER/COLUMN CONNECTION
RAFTER SPAN LESS THAN 12'-0"
SCALE: NTS

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272 NW COUNTRY LAKE DR, LAKE CITY, FL 32055
813.770.9470
TRAVIS@COVINGTONENG.COM

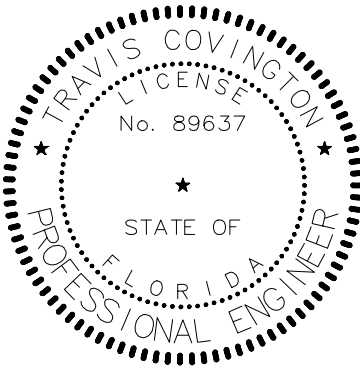
PROJECT:	BETHEA METAL BUILDING
CLIENT:	KENNY BETHEA
LOCATION:	1465 NE VOSS RD, LAKE CITY, FL
JOB NO:	E034

GENERAL NOTES & SPECIFICATIONS

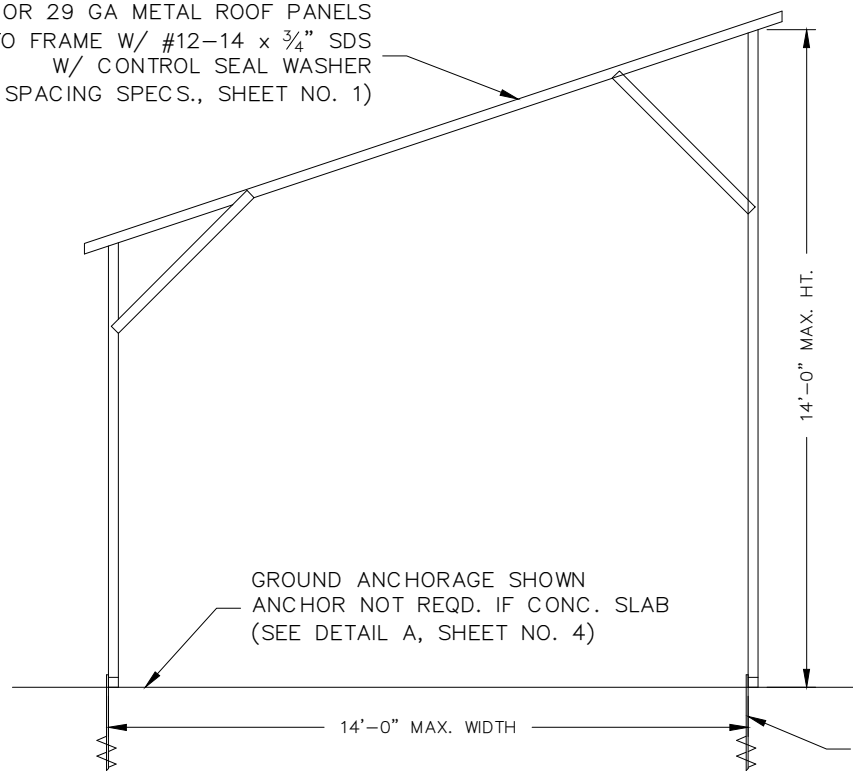
SCALE: AS NOTED
SHEET NO: S.1

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26 OR 29 GA METAL ROOF PANELS
FASTENED TO FRAME W/ #12-14 x 3/4" SDS
W/ CONTROL SEAL WASHER
(SEE SPACING SPECS., SHEET NO. 1)

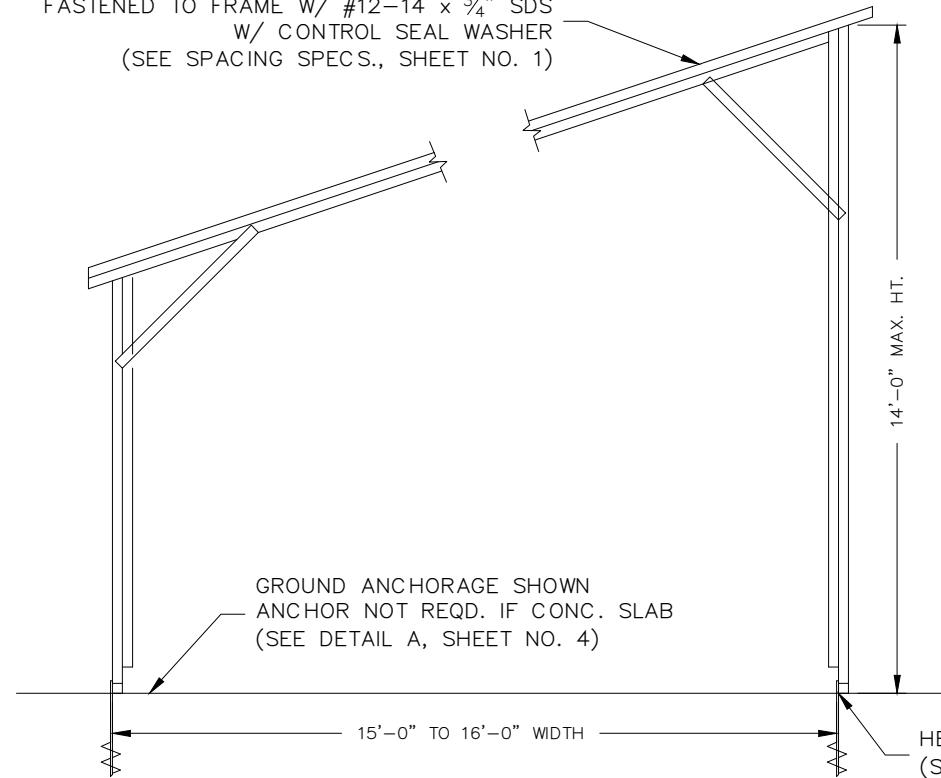


OPTIONAL SLOPES:
1:12
2:12
3:12

HELICAL ANCHORAGE
(SEE DETAIL B, SHEET NO. 4)

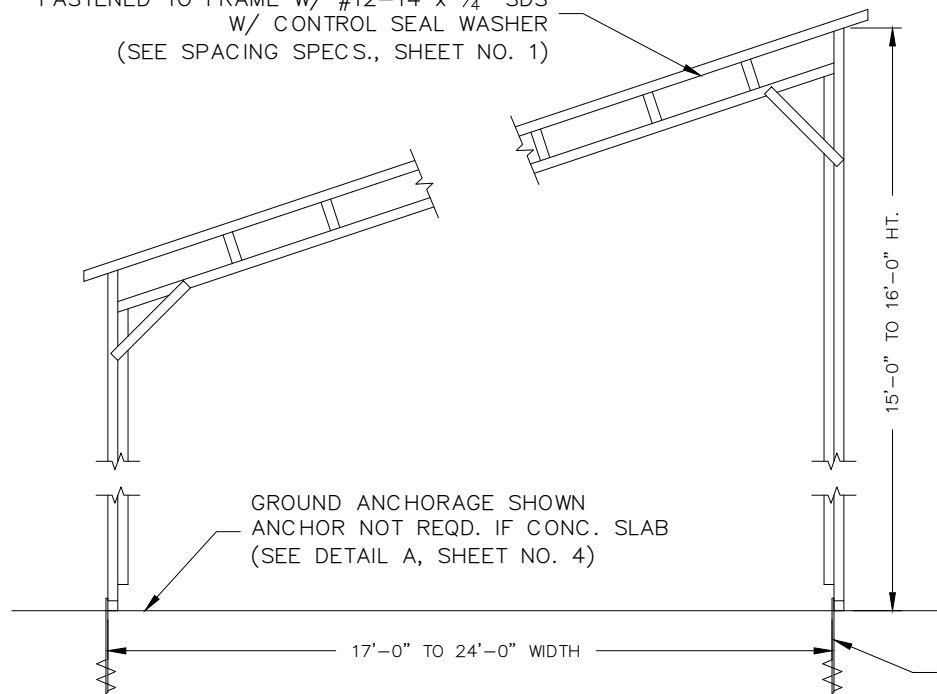
FRESTANDING LEAN-TO: MAX. 14FT WIDTH
SCALE: NTS

26 OR 29 GA METAL ROOF PANELS
FASTENED TO FRAME W/ #12-14 x 3/4" SDS
W/ CONTROL SEAL WASHER
(SEE SPACING SPECS., SHEET NO. 1)



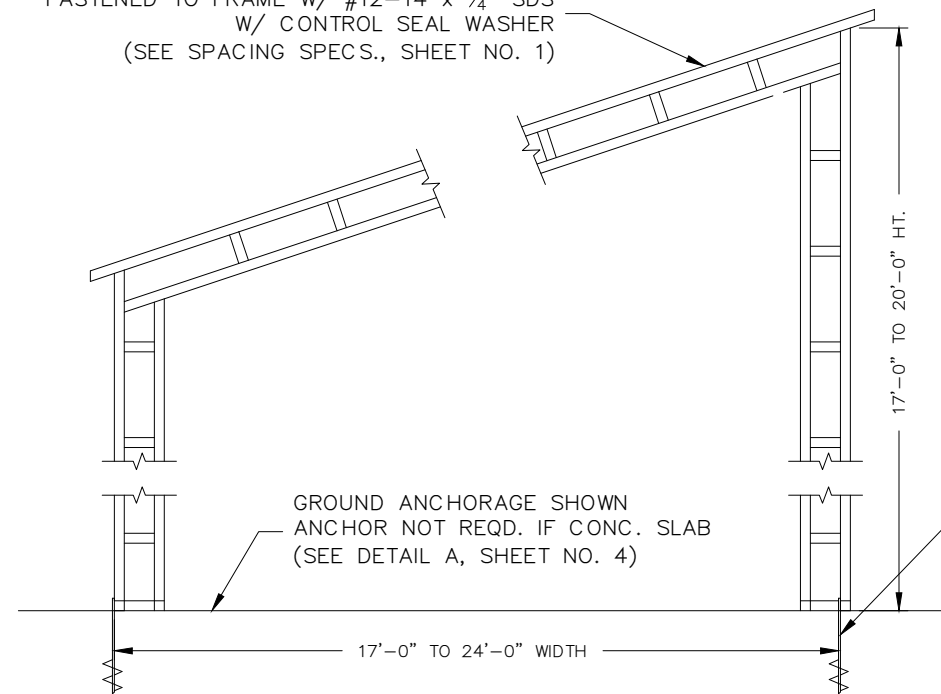
FRESTANDING LEAN-TO: 15FT TO 16FT WIDTH
SCALE: NTS

26 OR 29 GA METAL ROOF PANELS
FASTENED TO FRAME W/ #12-14 x 3/4" SDS
W/ CONTROL SEAL WASHER
(SEE SPACING SPECS., SHEET NO. 1)



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

26 OR 29 GA METAL ROOF PANELS
FASTENED TO FRAME W/ #12-14 x 3/4" SDS
W/ CONTROL SEAL WASHER
(SEE SPACING SPECS., SHEET NO. 1)

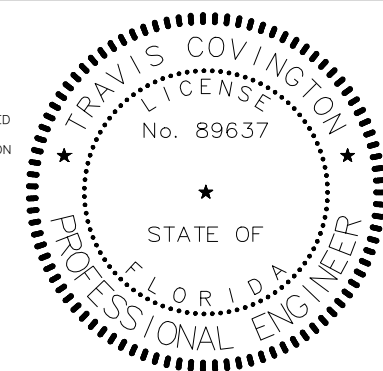


FRESTANDING LEAN-TO: 17FT TO 24FT WIDTH
SCALE: NTS

HELICAL ANCHORAGE
(SEE DETAIL B, SHEET NO. 4)

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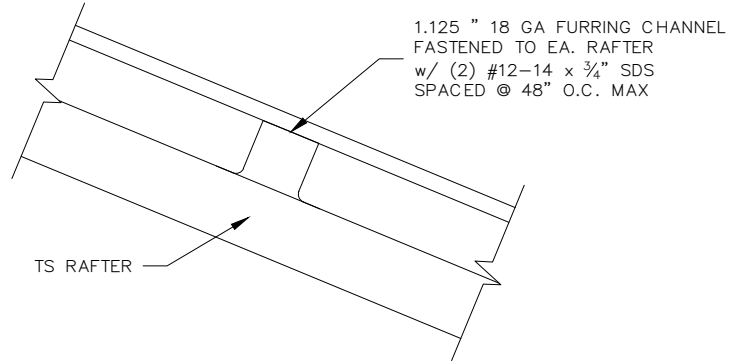
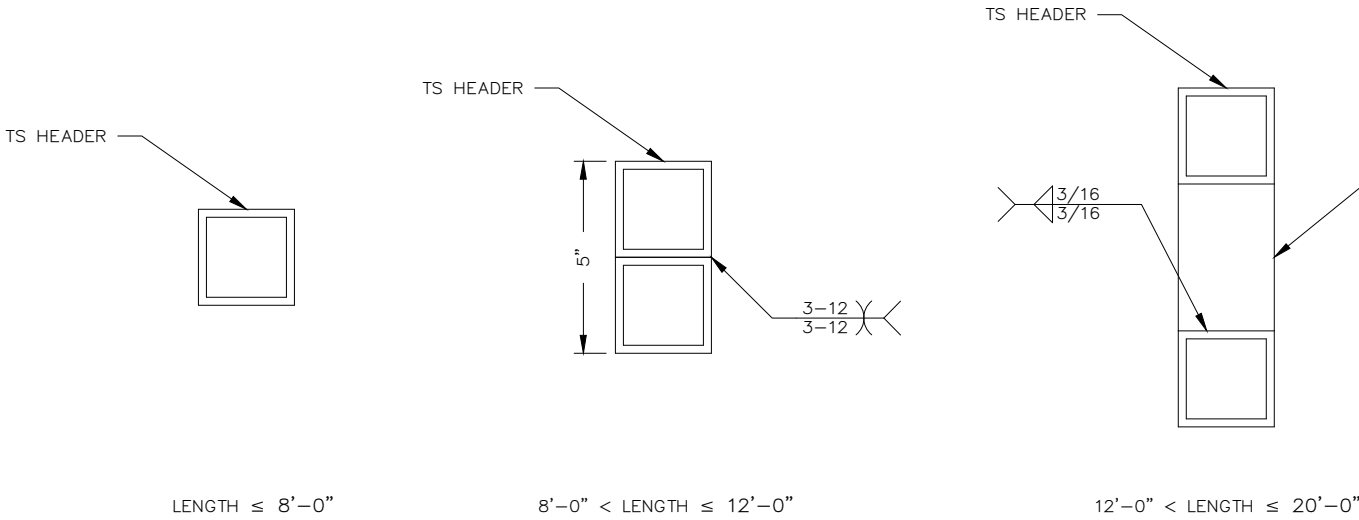
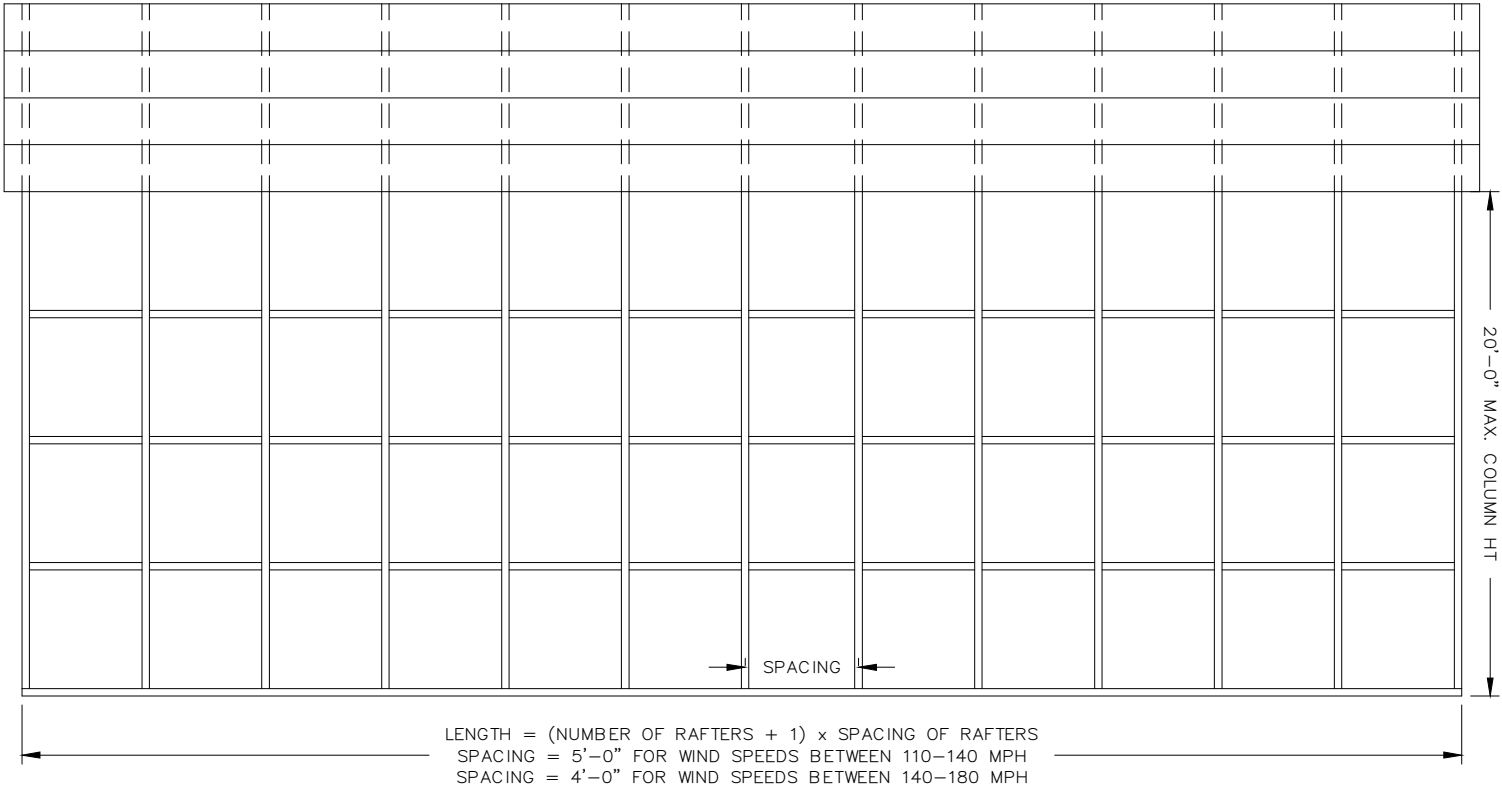


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PROJECT:	BETHEA METAL BUILDING
CLIENT:	KENNY BETHEA
LOCATION:	1465 NE VOSS RD, LAKE CITY, FL
JOB NO:	E034

GENERAL NOTES & SPECIFICATIONS	
SCALE: AS NOTED	SHEET NO: S.1



VERTICAL ROOF PANEL ATTACHMENT
SCALE: NTS

OPTIONAL SIDE WALL HEADERS
SCALE: NTS

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COVINGTON ENGINEERING SERVICES 272 NW COUNTRY LAKE DR, LAKE CITY, FL 32055 813.770.9470 TRAVIS@COVINGTONENG.COM		PROJECT:	BETHEA METAL BUILDING	GENERAL NOTES & SPECIFICATIONS	
		CLIENT:	KENNY BETHEA		
		LOCATION:	1465 NE VOSS RD, LAKE CITY, FL	SCALE:	SHEET NO:
		JOB NO:	E034	AS NOTED	S.1

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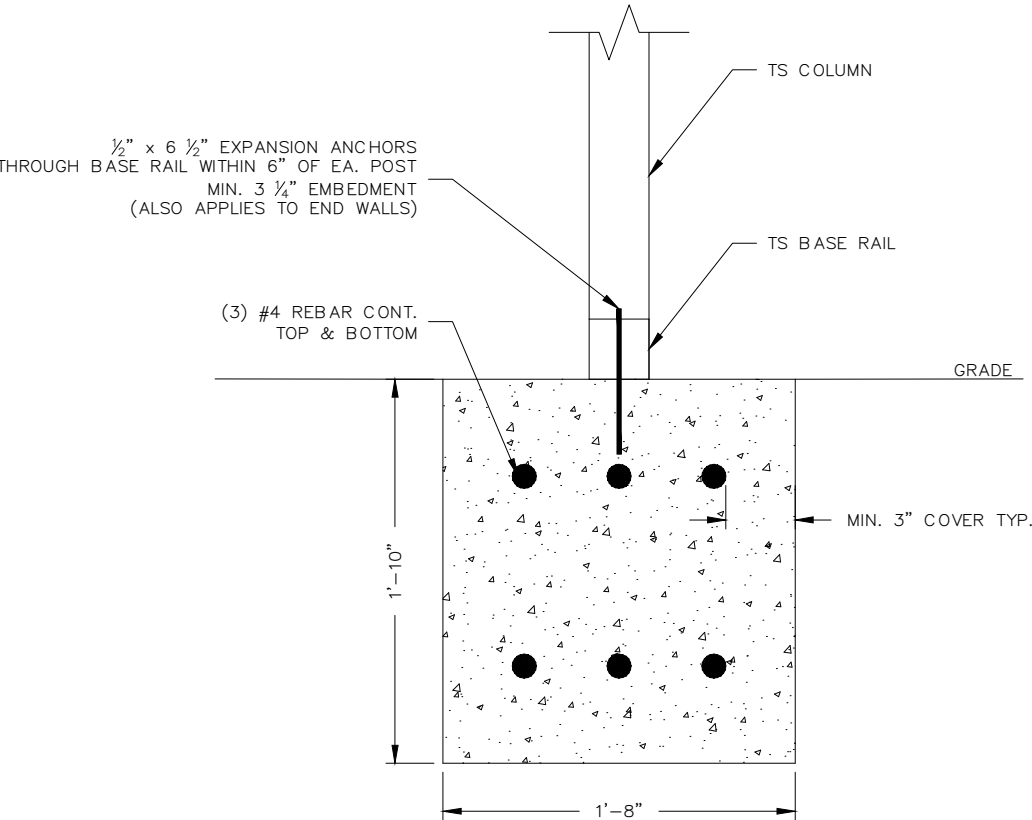
PROFESSIONAL ENGINEER

GENERAL NOTES

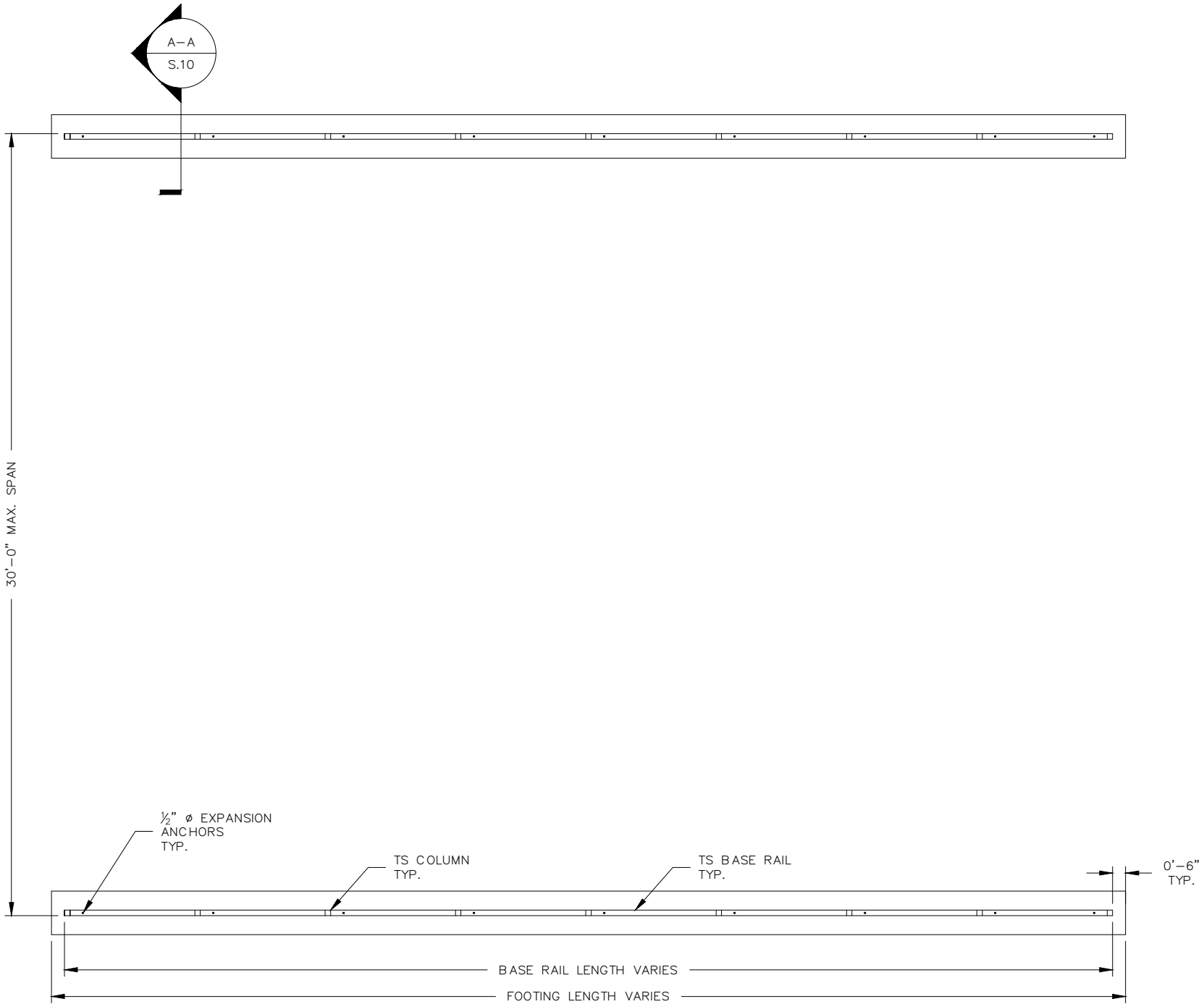
- 1. MINIMUM SOIL BEARING CAPACITY: 1500 PSF
- 2. CONCRETE STRENGTH: 3000 PSI @ 28 DAYS

REINFORCING STEEL NOTES

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



A-A CONCRETE STRIP FOOTING DETAIL
SCALE: NTS



CONCRETE STRIP FOOTING PLAN
SCALE: NTS

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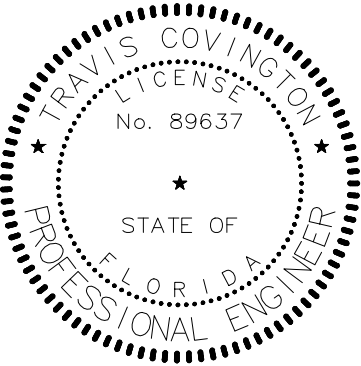
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GENERAL NOTES & SPECIFICATIONS

SCALE:	SHEET NO:
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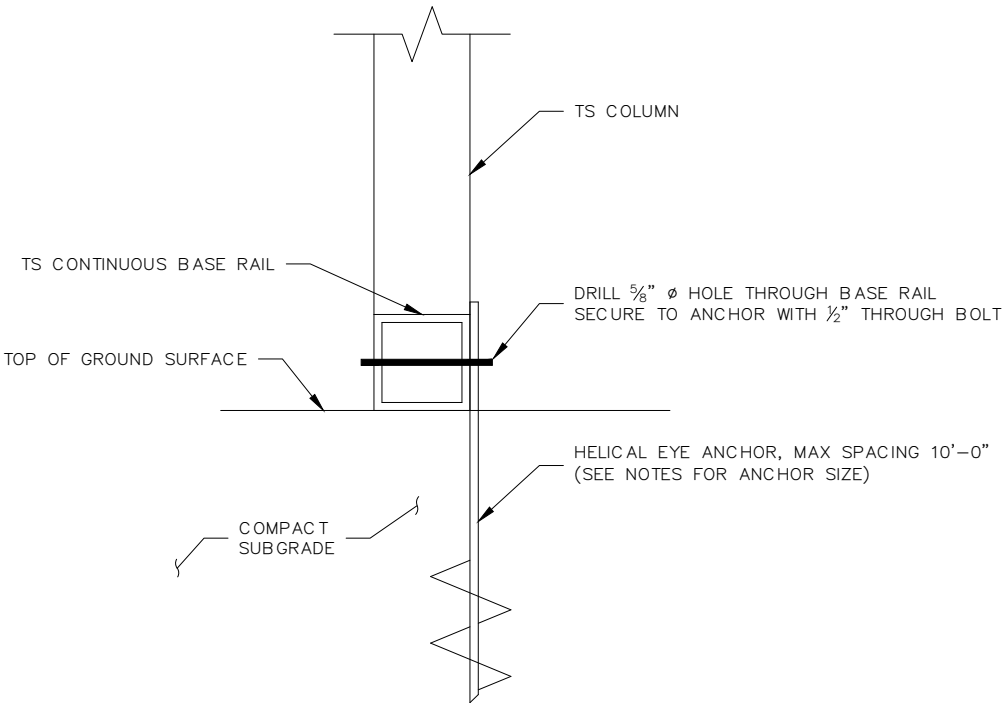
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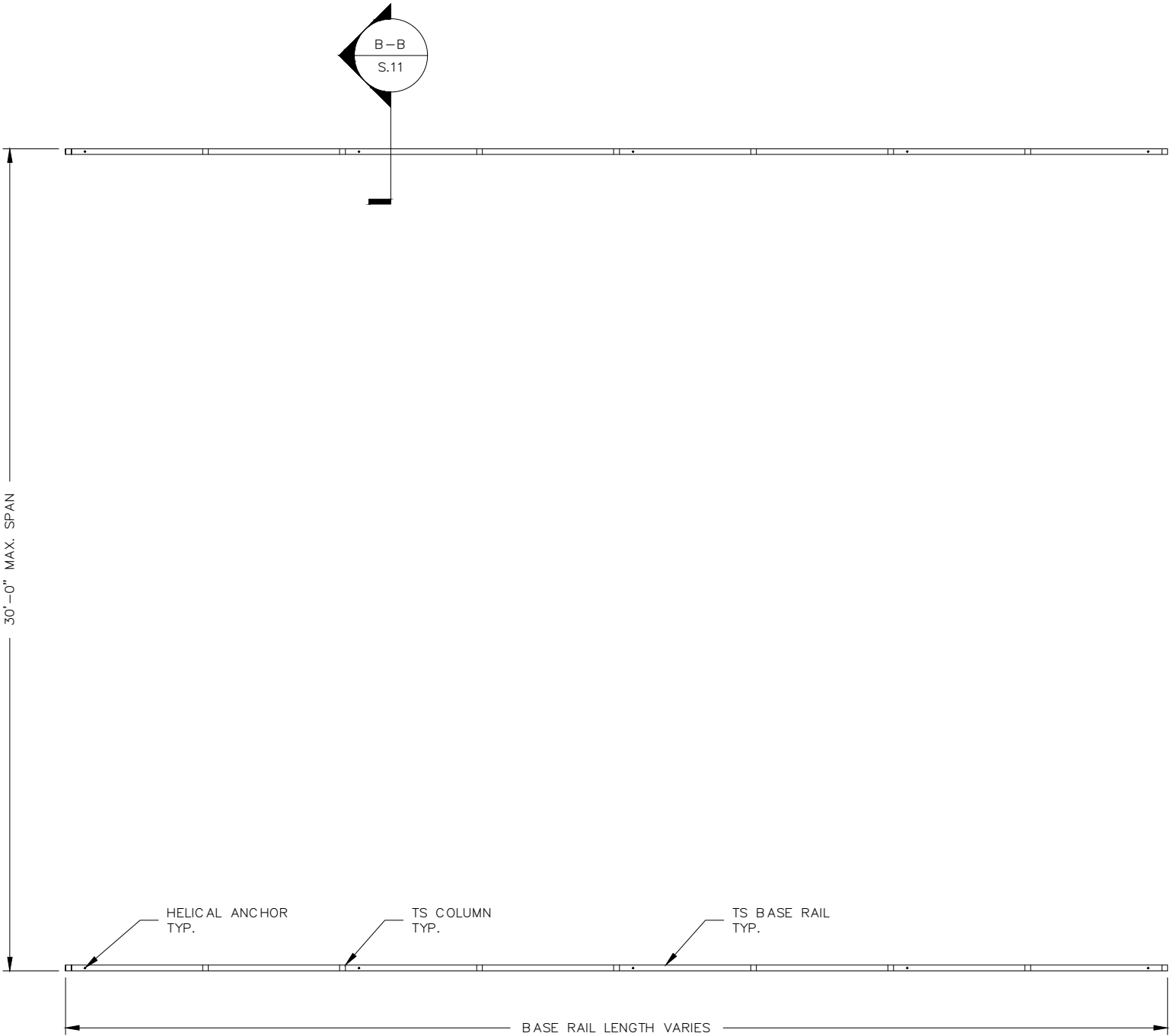


HELICAL ANCHOR NOTES

1. MINIMUM OF (2) 4" HELICES WITH 30" MIN. EMBEDMENT SHALL BE USED FOR THE FOLLOWING SOILS: VERY DENSE AND OR/OR CEMENTED SOILS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILT AND CLAYS, CORALS, MEDIUM DENSE COARSE SANDS, SANDY GRAVEL, AND VERY STIFF SILTS AND CLAYS
2. MINIMUM OF (2) 6" HELICES WITH 48" MIN. EMBEDMENT SHALL BE USED FOR THE FOLLOWING SOILS: LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, AND ALLUVIAL FILL
3. MINIMUM OF (2) 8" HELICES WITH 60" MIN. EMBEDMENT SHALL BE USED FOR THE FOLLOWING SOILS: VERY LOOSE TO MEDIUM DENSE SANDS AND FIRM TO STIFFER CLAYS AND SILTS



B-B HELICAL ANCHORAGE DETAIL
SCALE: NTS



HELICAL ANCHORAGE PLAN
SCALE: NTS

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