# ENCLOSED METAL BUILDING DESIGN
# 30FT WIDE X 65FT LONG X 12FT EAVE HT.

## APPLICABLE CODES AND STANDARDS

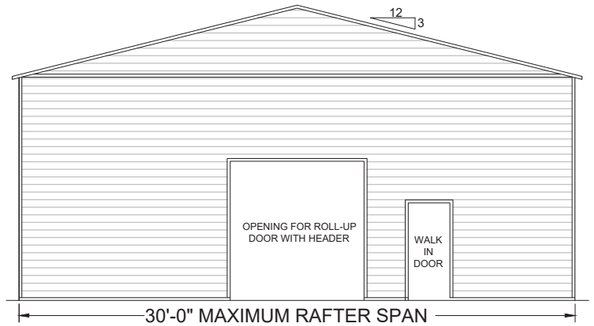
1. 2023 FLORIDA BUILDING CODE (8TH EDITION)
2. 2021 INTERNATIONAL BUILDING CODE
3. ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
4. AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
5. ACI 318-14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
6. TMS 402-16: BUILDING CODE REQUIREMENTS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

## DESIGN LOADS

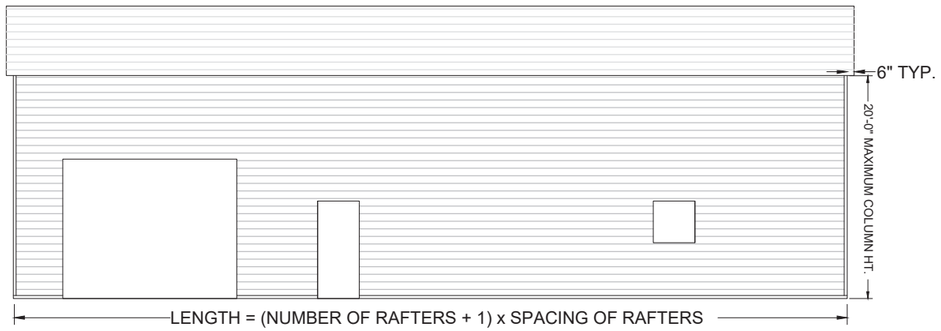
1. DEAD LOAD = 15 PSF
2. LIVE LOAD = 20 PSF
3. WIND LOAD (SEE TABLE 1)

## 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.
   - 3.2. 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.
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 SIDE ELEVATION**
SCALE: NTS

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

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

NOTES:
1. SPECIFICATIONS APPLICABLE TO 26 OR 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 12 OR 14 GAUGE STEEL TUBE BOW FRAMES.
2. FASTENTERS 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.

TABLE 2

| 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 TABLULATED.

| LEAN-TO INDEX | |
|---|---|
| BUILDING SIDE | LEAN-TO SIZE (FT) |
| LEFT | |
| | |
| RIGHT | |
| | |
| FRONT | |
| REAR | |

## DRAWING INDEX



TABLE 3

| COMPONENTS AND CLADDING DESIGN PRESSURES MEAN ROOF HT 25 FT, EXPOSURE C (PSF) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Zone | 120 | | 130 | | 140 | | 150 | | 160 | | 170 | | 180 | |
| | POS | NEG | POS | NEG | POS | NEG | POS | NEG | POS | NEG | POS | NEG | 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 |

Digitally signed by Adam Collins
DN: c=US, sn=Collins, givenName=Adam, email=adam@collinseng.com, cn=Adam Collins
Date: 2025.02.27 14:30:01 -05'00'

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY ADAM T. COLLINS, P.E. ON 2025.02.27. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |

| | |
|---|---|
| DATE | 2025.02.27 |
| DRAWN | SM |
| DESIGNED | DMC |
| CHECKED | ATC |
| JOB No. | 22047 |

| SUBMITTALS | DATE |
|---|---|
| | |


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

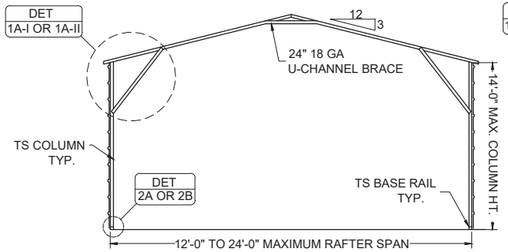

CLIENT: ELITE METAL MANUFACTURING 10121 88TH TRACE

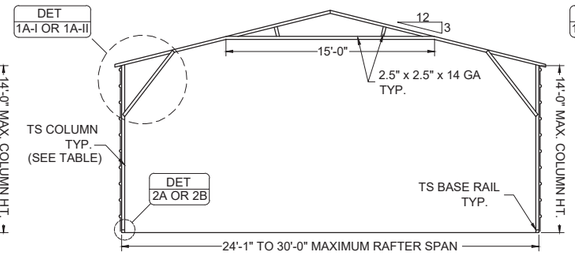
SHEET TITLE: NOTES AND SPECIFICATIONS

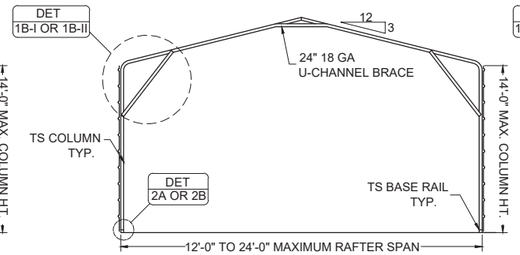
PROJECT: Bert Herrero 644 SW Miracle St Lake City, FL 32024

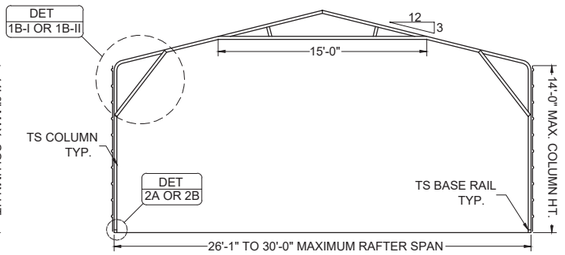
SHEET NO.: S-1

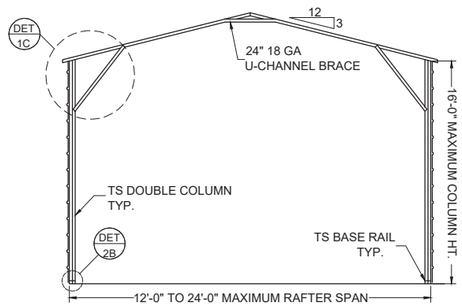
SCALE: AS-SHOWN

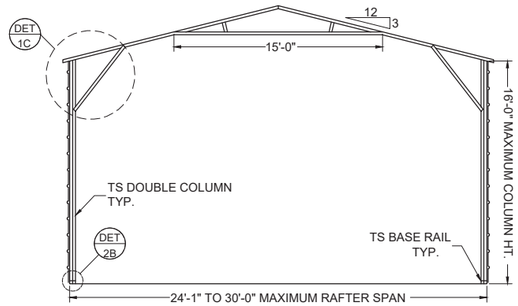


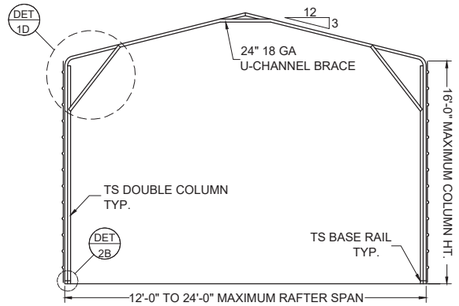



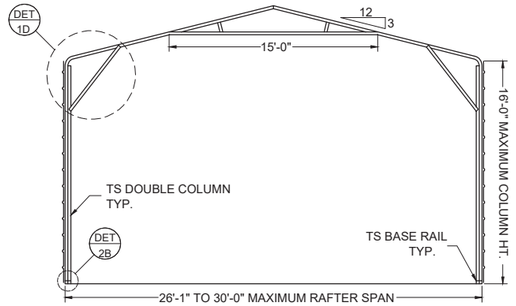



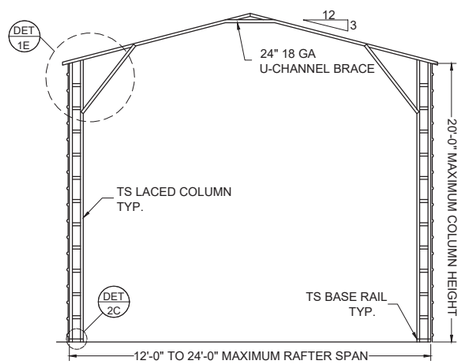



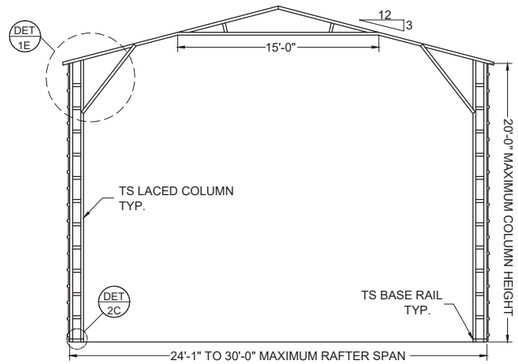



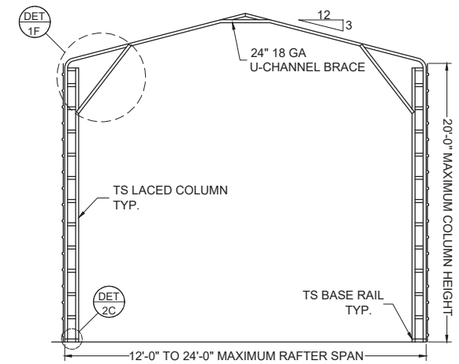



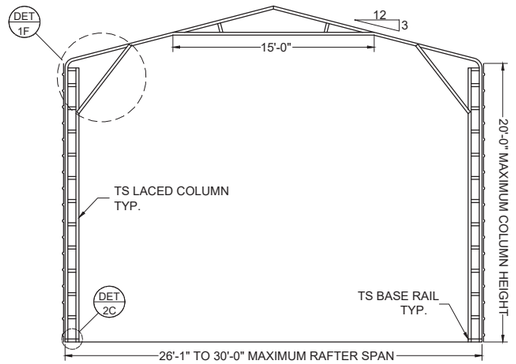




## BOX EAVE FRAME

SCALE: NTS

## BOW EAVE FRAME

SCALE: NTS

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY ADAM T. COLLINS, P.E. ON 2025.02.27. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

| | |
|---|---|
| DATE | 2025.02.27 |
| DRAWN | SM |
| DESIGNED | DMC |
| CHECKED | ATC |
| JOB No. | 22047 |

| SUBMITTALS | DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

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

CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

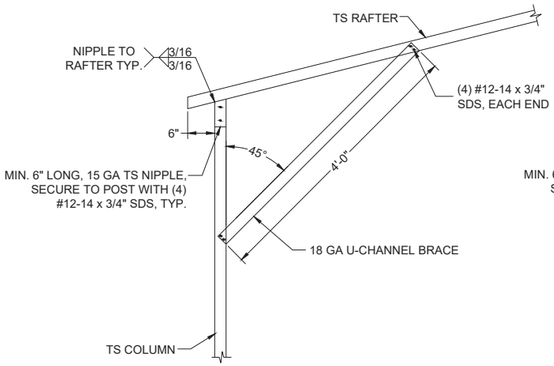
SHEET TITLE
BOX-BOW EAVE FRAME RAFTER ENCLOSED BUILDING

PROJECT
Bert Herrero
644 SW Miracle St
Lake City, FL 32024

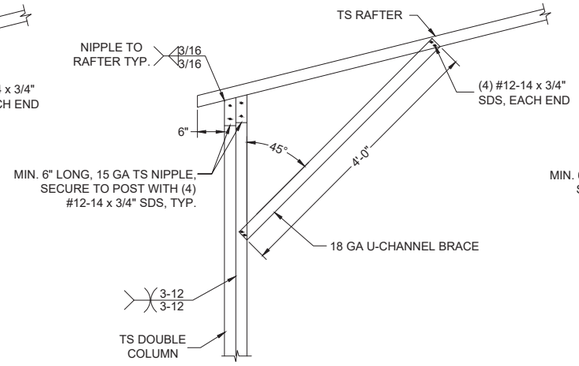
SHEET NO.
S-2

SCALE
AS-SHOWN

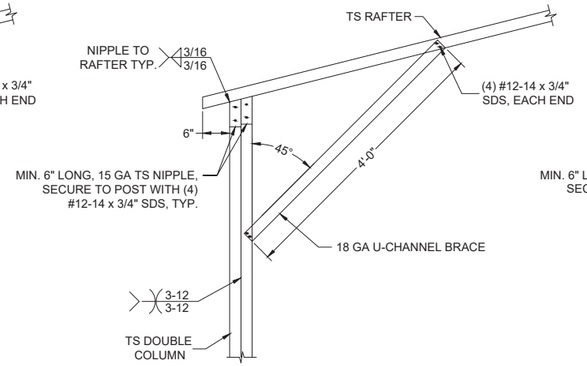
d:\ACE\ace - projects\elite-22047\Cadd\enclosed-building-30\2.dwg, USER, 12/12/2022 1:49 PM



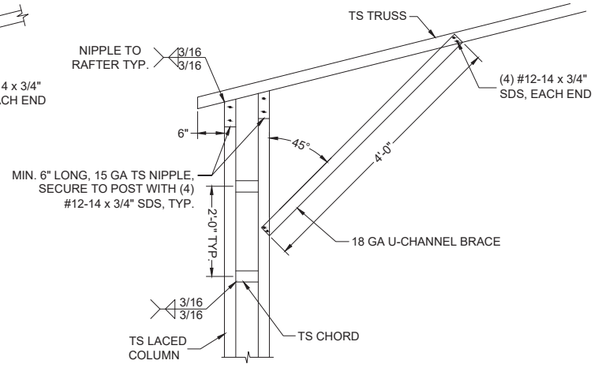

1A-I BOX EAVE RAFTER/CORNER POST CONNECTION 30'(MAX.)W x 14'H
SCALE: NTS




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




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




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

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY ADAM T. COLLINS, P.E. ON 2025.02.27. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

| | |
|---|---|
| DATE | 2025.02.27 |
| DRAWN | SM |
| DESIGNED | DMC |
| CHECKED | ATC |
| JOB No. | 22047 |

| SUBMITTALS | DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

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

CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
CONNECTION DETAILS (1 OF 4)

PROJECT
Bert Herrero
644 SW Miracle St
Lake City, FL 32024

SHEET NO.
S-3

SCALE
AS-SHOWN

d:\ACE\ace - projects\elite-22047\Cadd\enclosed-building-3013.dwg, USER, 12/12/2022 1:49 PM

## GENERAL NOTES

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

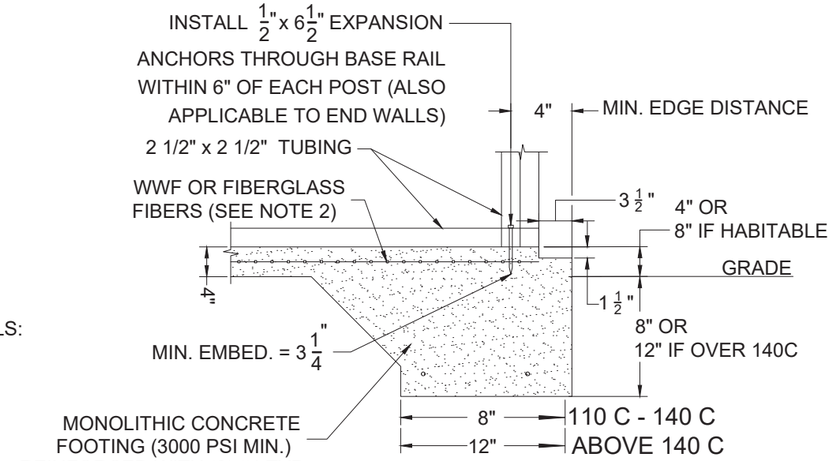
## REINFORCING STEEL

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

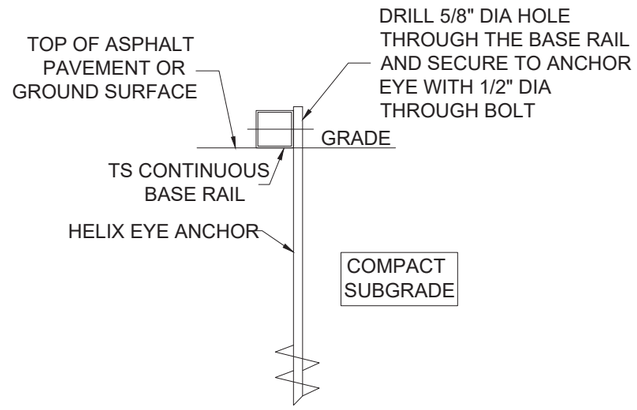
1. USE MINIMUM (2) 4" HELICES WITH 30" EMBEDMENT FOR THE FOLLOWING SOILS:
   - 1.1. VERY DENSE AND/OR CEMENTED SANDS
   - 1.2. COARSE GRAVEL AND COBBLES
   - 1.3. CALICHE
   - 1.4. PRELOADED SILTS AND CLAYS
   - 1.5. CORALS
   - 1.6. MEDIUM DENSE COARSE SANDS
   - 1.7. SANDY GRAVEL
   - 1.8. VERY STIFF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



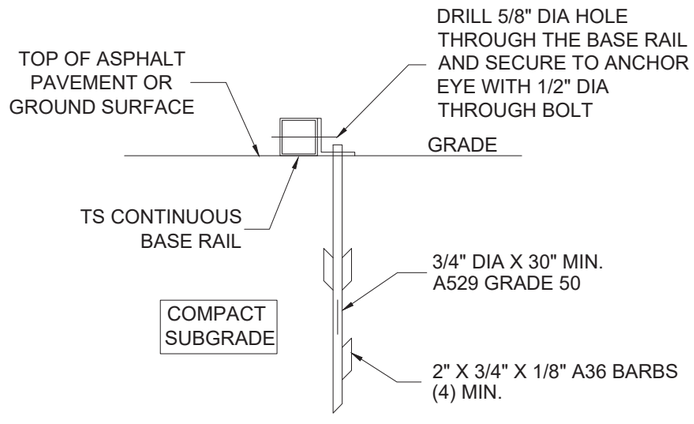

3A CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS



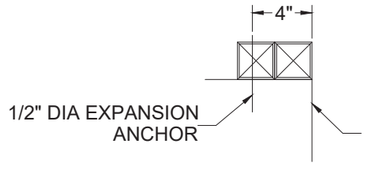

3B GROUND BASE HELIX ANCHORAGE

SCALE: NTS

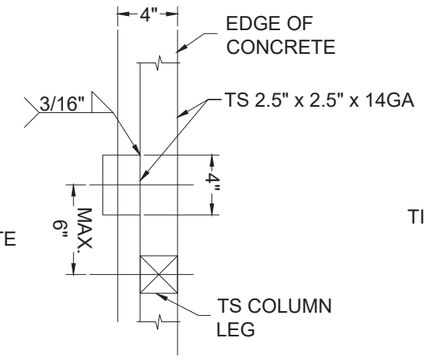



3C ASPHALT BASE ANCHORAGE (HP 9 BARBED DRIVE ANCHOR)

SCALE: NTS



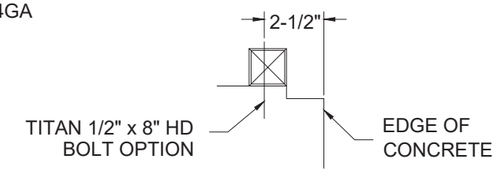

SECTION (OPTION-1)




TOP VIEW (OPTION-1)

TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS




SECTION (OPTION-2)



| NO. | REVISIONS | DATE |
|---|---|---|
| | | |

| | |
|---|---|
| DATE | 2025.02.27 |
| DRAWN | SM |
| DESIGNED | DMC |
| CHECKED | ATC |
| JOB No. | 22047 |

| SUBMITTALS | DATE |
|---|---|
| | |

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

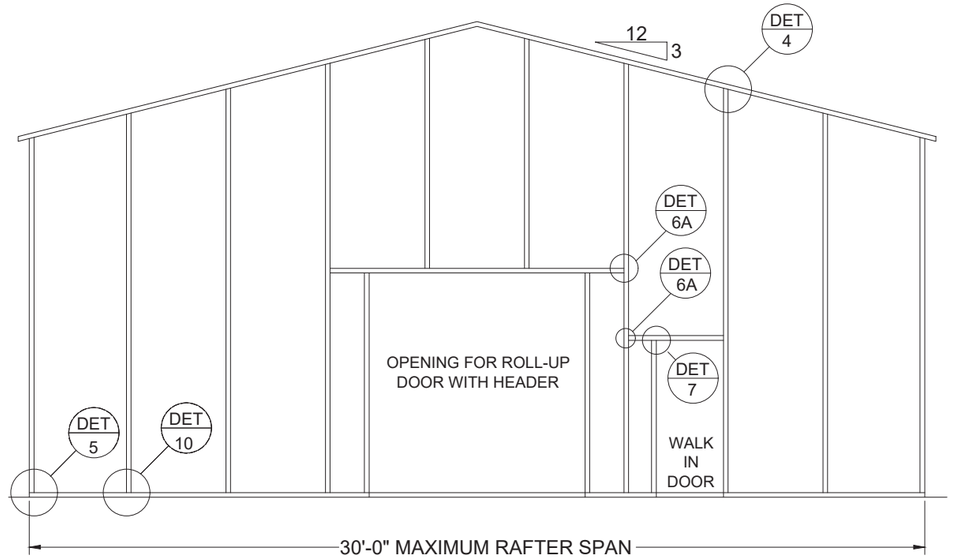
CLIENT: ELITE METAL MANUFACTURING 10121 88TH TRACE

SHEET TITLE: BASE RAIL AND ANCHORAGE DETAILS

PROJECT: Bert Herrero 644 SW Miracle St Lake City, FL 32024

SHEET NO.: S-4

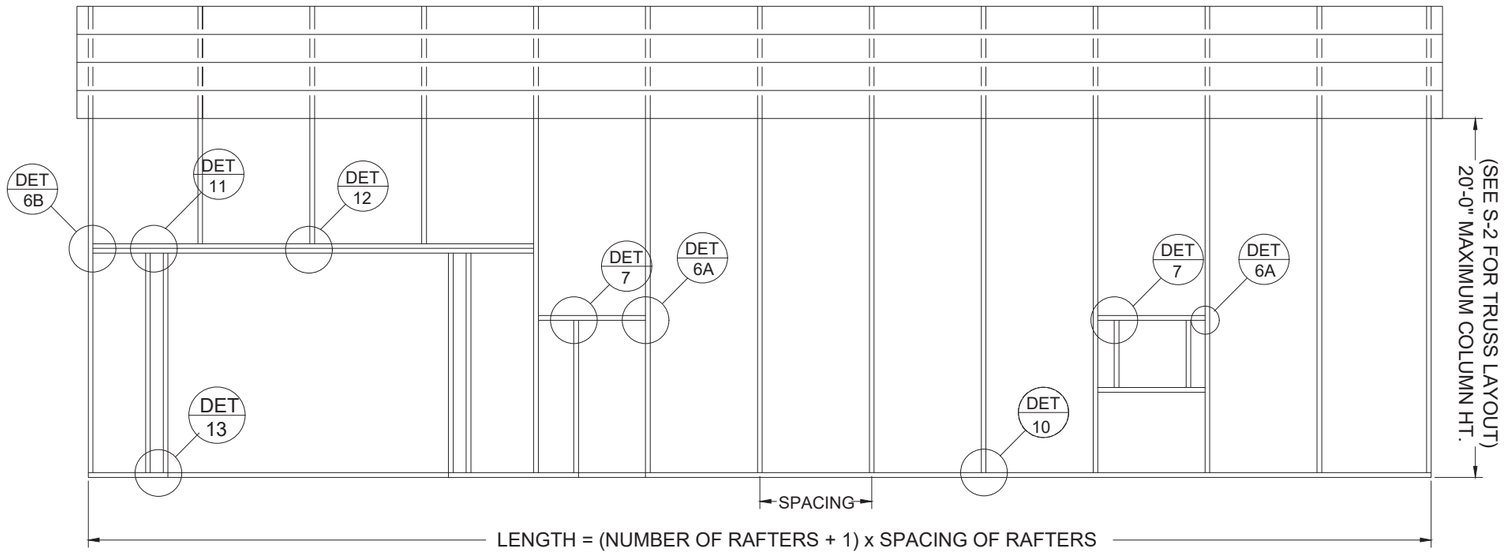
SCALE: AS-SHOWN




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

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

| | |
|---|---|
| DATE | 2025.02.27 |
| DRAWN | SM |
| DESIGNED | DMC |
| CHECKED | ATC |
| JOB No. | 22047 |

| SUBMITTALS | DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

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

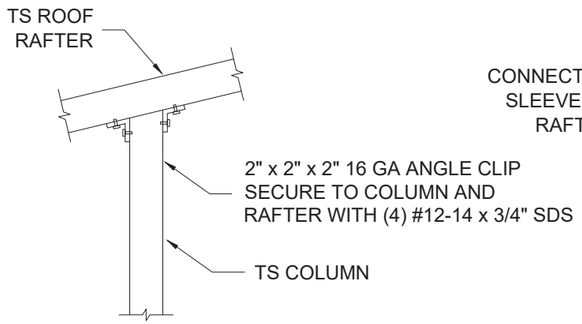
CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
BOX EAVE RAFTER END WALL, SIDE WALL AND OPENING FRAMING

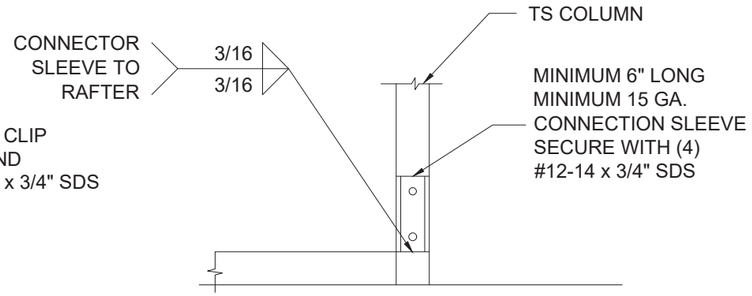
PROJECT
Bert Herrero
644 SW Miracle St
Lake City, FL 32024

SHEET NO.
S-5

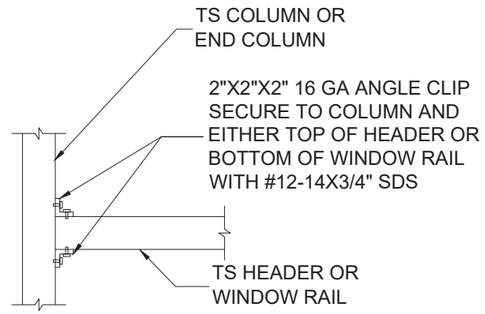
SCALE
AS-SHOWN



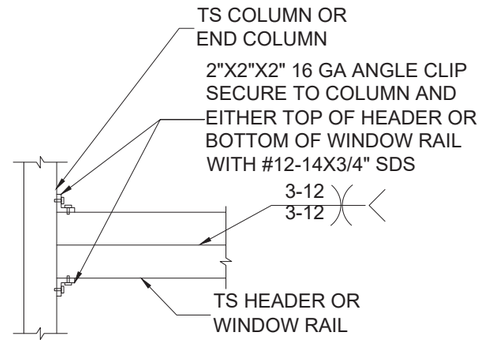

4 POST/RAFTER CONNECTION
SCALE: NTS



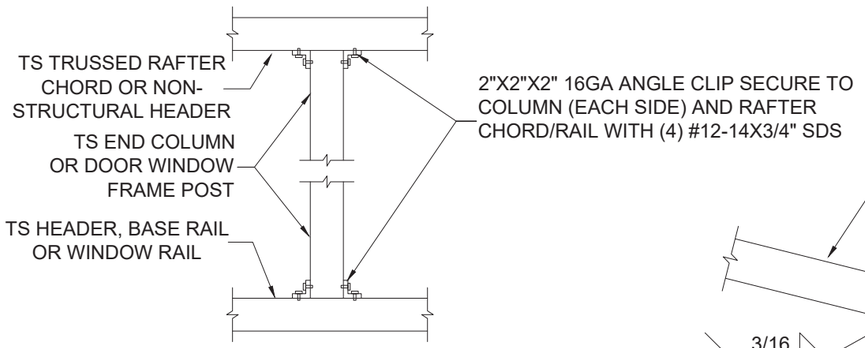

5 POST/BASE RAIL CONNECTION
SCALE: NTS



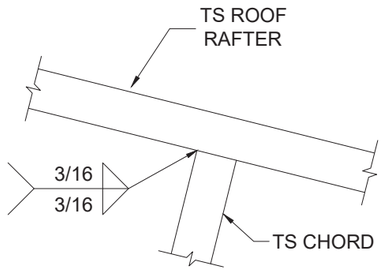

6A HEADER TO POST CONNECTION
SCALE: NTS



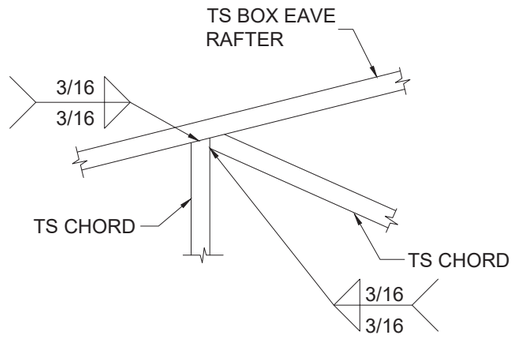

6B DOUBLE HEADER TO POST CONNECTION
SCALE: NTS



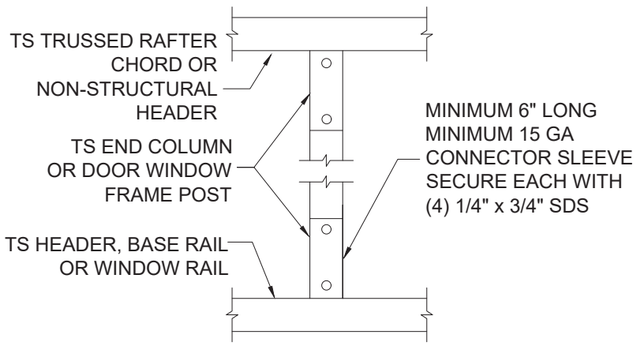

7 POST TO HEADER, BASE RAIL OR WINDOW RAIL CONNECTION
SCALE: NTS




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

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

| | |
|---|---|
| DATE | 2025.02.27 |
| DRAWN | SM |
| DESIGNED | DMC |
| CHECKED | ATC |
| JOB No. | 22047 |

| SUBMITTALS | DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

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

CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
CONNECTION DETAILS (2 OF 4)

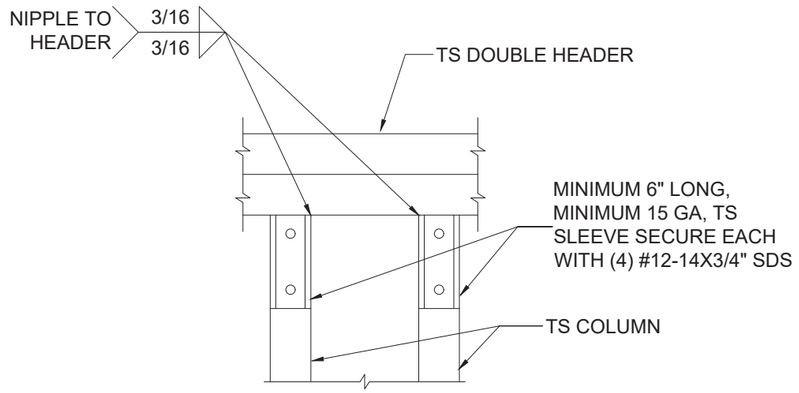
PROJECT
Bert Herrero
644 SW Miracle St
Lake City, FL 32024

SHEET NO.
S-6

SCALE
AS-SHOWN

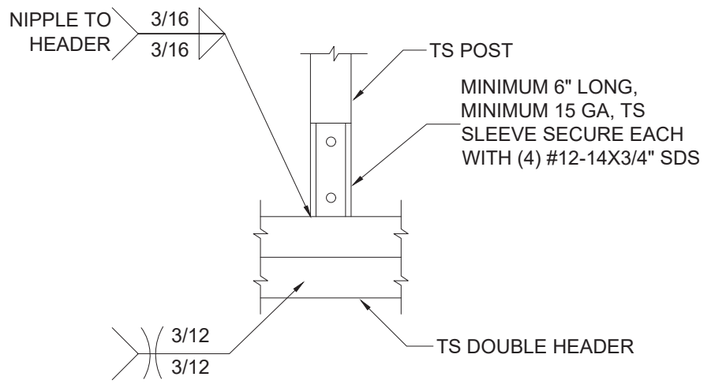
THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY ADAM T. COLLINS, P.E. ON 2025.02.27. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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



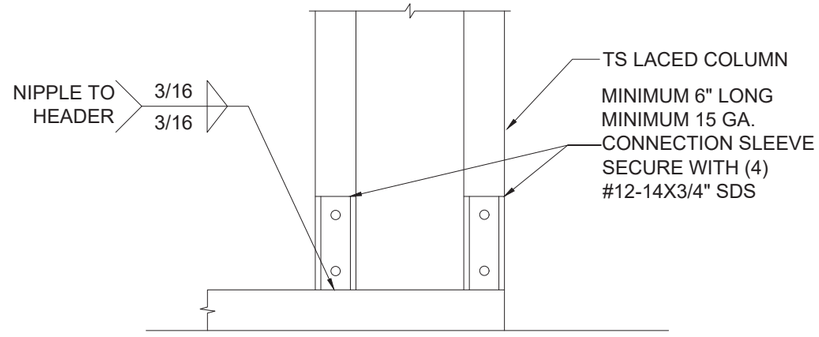

11 DOUBLE HEADER TO POST CONNECTION

SCALE: NTS



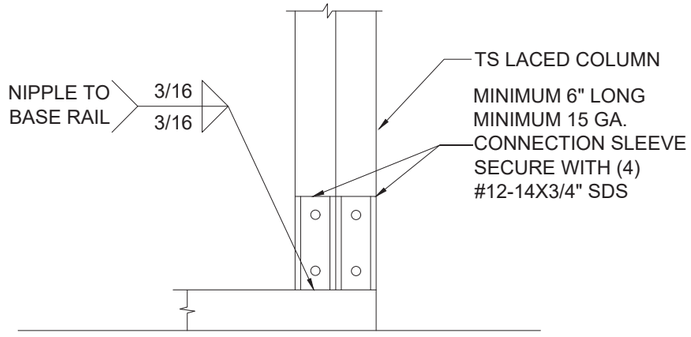

12 POST/DOUBLE HEADER CONNECTION

SCALE: NTS




13A POST/BASE RAIL CONNECTION

SCALE: NTS




13B POST/BASE RAIL CONNECTION

SCALE: NTS

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

| | |
|---|---|
| DATE | 2025.02.27 |
| DRAWN | SM |
| DESIGNED | DMC |
| CHECKED | ATC |
| JOB No. | 22047 |

| SUBMITTALS | DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

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

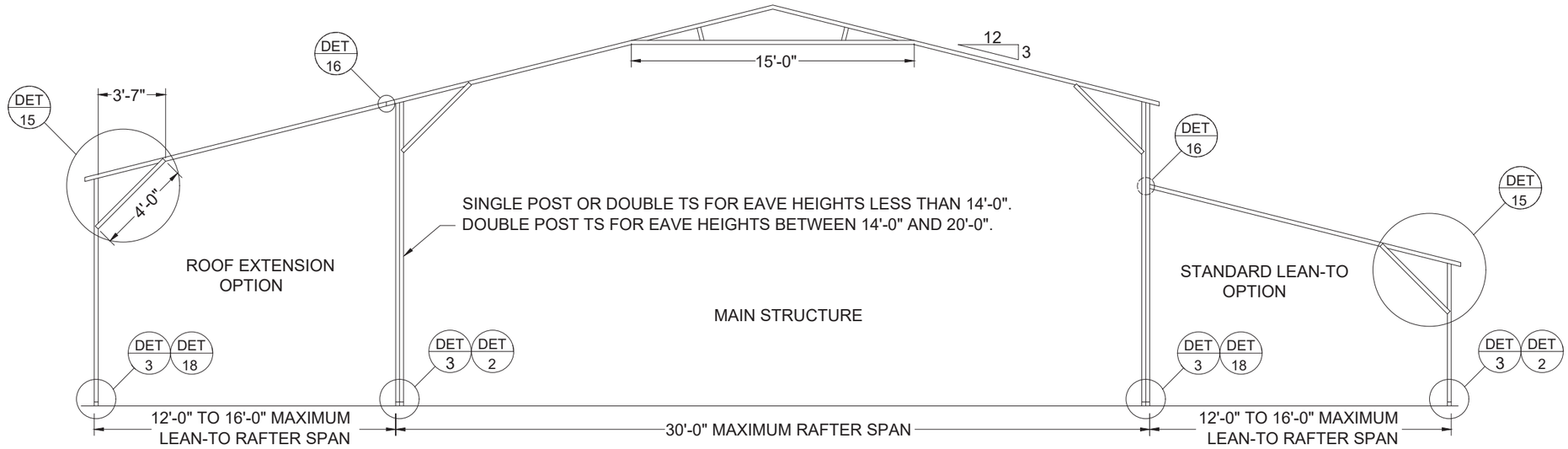
CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
CONNECTION DETAILS (3 OF 4)

PROJECT
Bert Herrero
644 SW Miracle St
Lake City, FL 32024

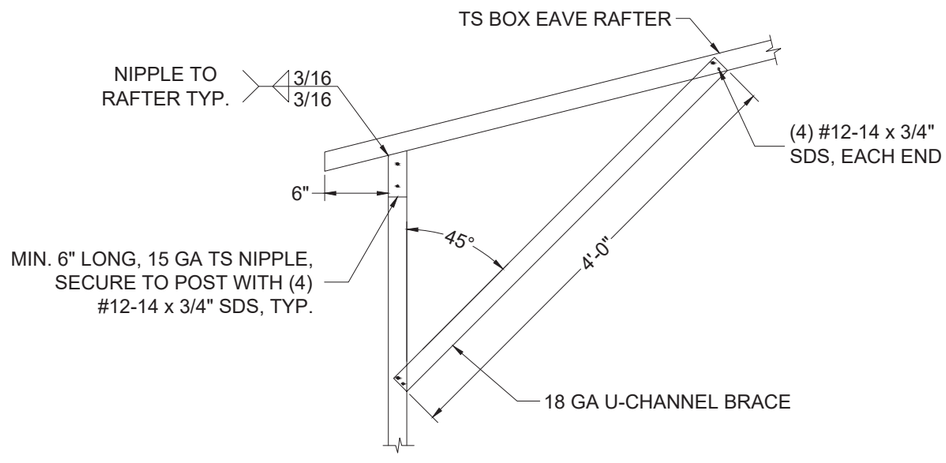
SHEET NO.
S-7

SCALE
AS-SHOWN




**TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION**

SCALE: NTS




15 LEAN-TO RAFTER/CORNER POST CONNECTION

SCALE: NTS

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

| | |
|---|---|
| DATE | 2025.02.27 |
| DRAWN | SM |
| DESIGNED | DMC |
| CHECKED | ATC |
| JOB No. | 22047 |

| SUBMITTALS | DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

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

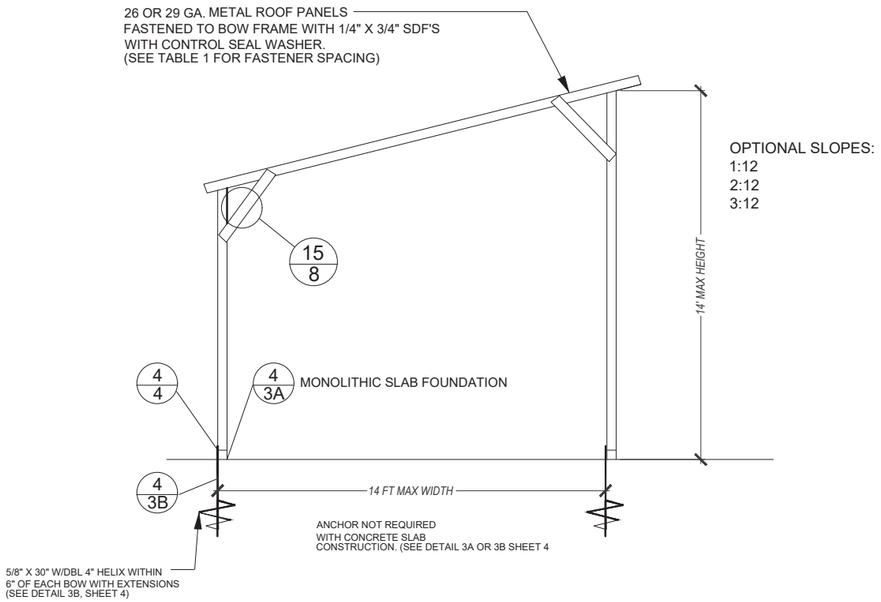
CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
BOX EAVE RAFTER LEAN TO OPTIONS

PROJECT
Bert Herrero
644 SW Miracle St
Lake City, FL 32024

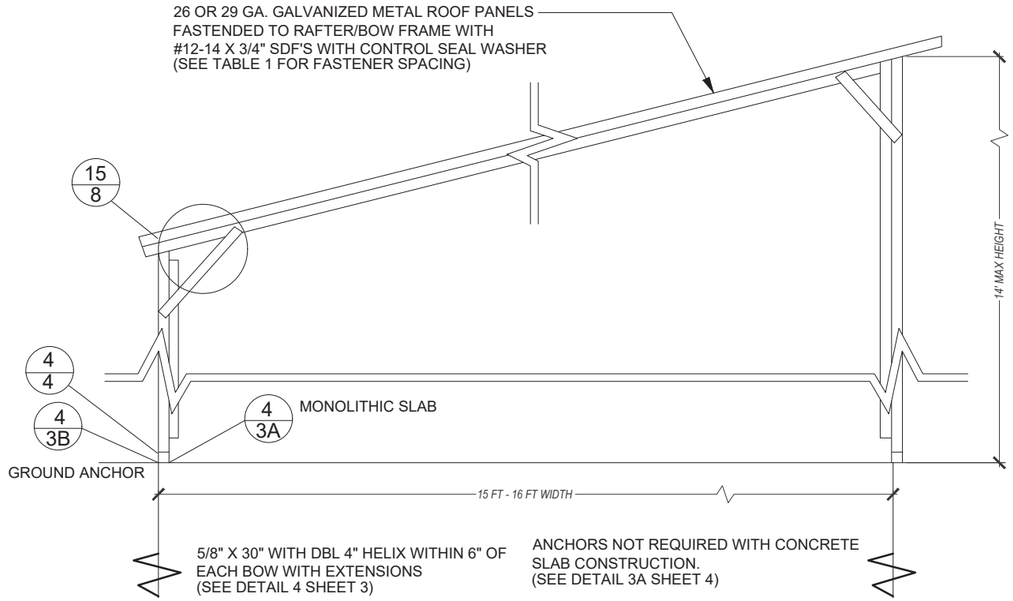
SHEET NO.
S-8

SCALE
AS-SHOWN



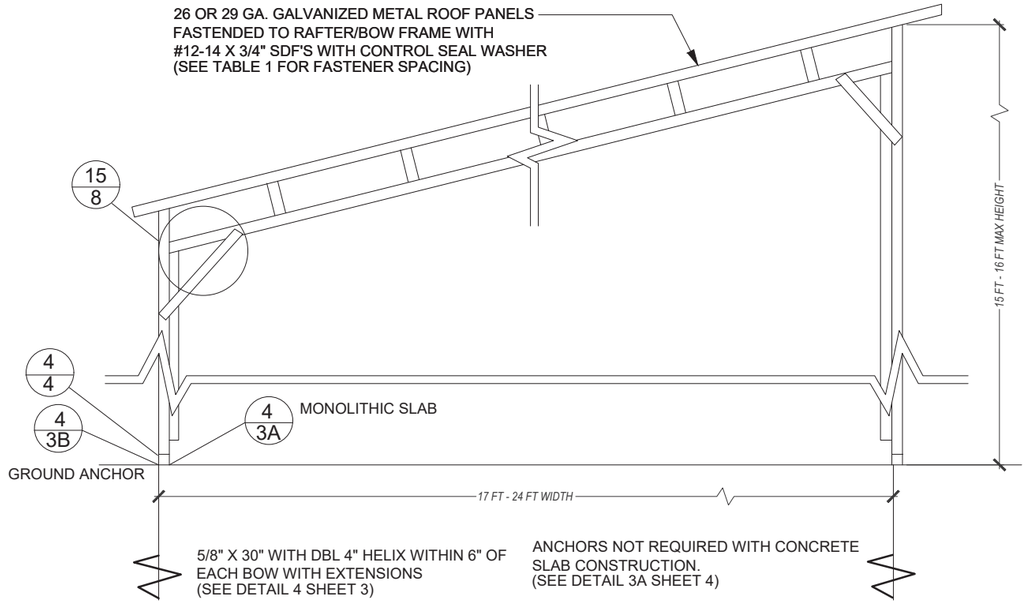

## 14 FT MAX WIDTH FREESTANDING LEAN-TO

SCALE: NTS



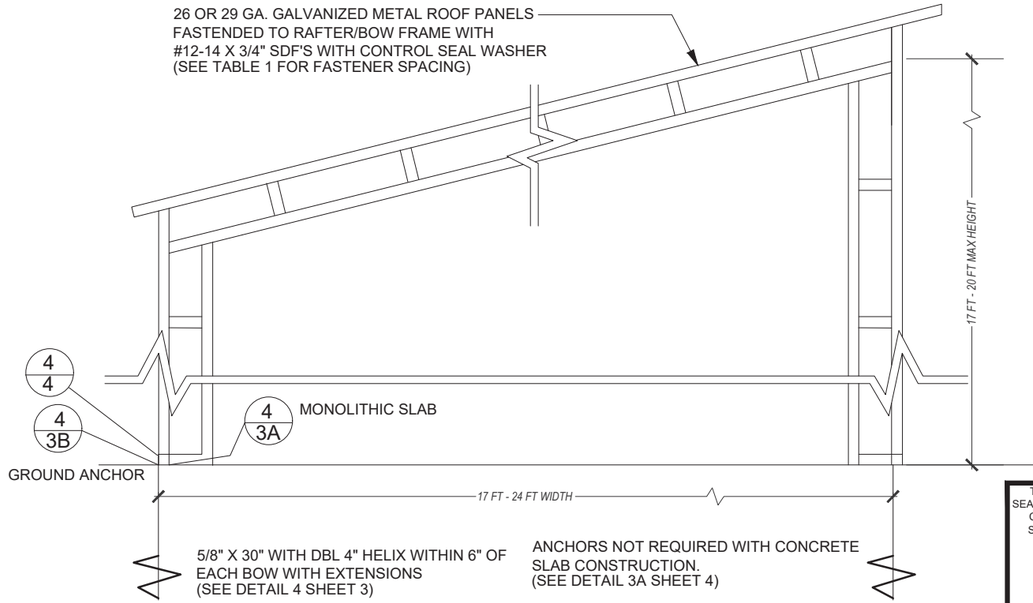

## 15 FT - 16 FT WIDTH FREESTANDING LEAN-TO LEAN-TO

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 | ~~##/##/##~~ |
| DRAWN | SM |
| DESIGNED | DMC |
| CHECKED | ATC |
| JOB No. | 22047 |

| SUBMITTALS | DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

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

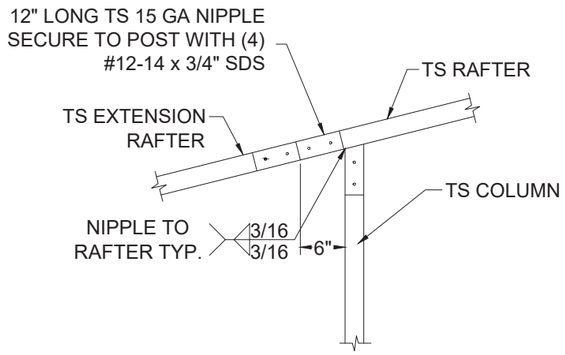
CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
FREESTANDING BOX EAVE RAFTER LEAN-TO OPTIONS

PROJECT
Bert Herrero
644 SW Miracle St
Lake City, FL 32024

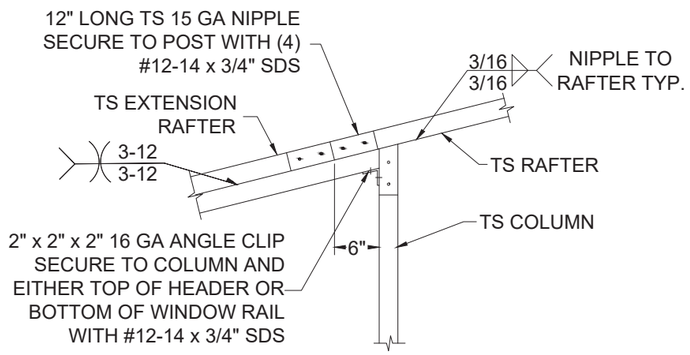
SHEET NO.
S-9

SCALE
AS-SHOWN



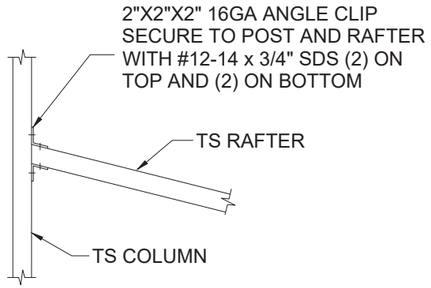

16A SIDE EXTENSION RAFTER/POST CONNECTION
RAFTER SPAN LESS THAN 12'-0"

SCALE: NTS



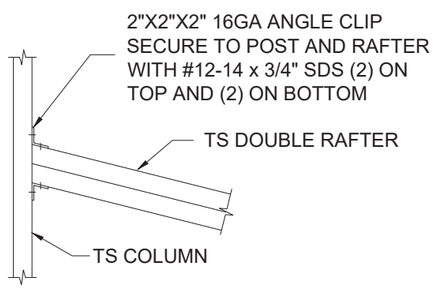

16B SIDE EXTENSION RAFTER/POST CONNECTION
RAFTER SPAN BETWEEN 12'-0" AND 16'-0"

SCALE: NTS



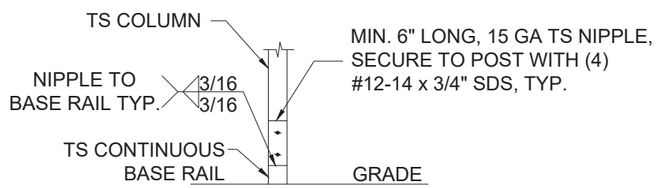

17B LEAN TO RAFTER/COLUMN CONNECTION
RAFTER SPANLESS THAN 12'-0"

SCALE: NTS




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

SCALE: NTS




18 LEAN-TO POST CONNECTION

SCALE: NTS

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY ADAM T. COLLINS, P.E. ON 2025.02.27. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

| | |
|---|---|
| DATE | 2025.02.27 |
| DRAWN | SM |
| DESIGNED | DMC |
| CHECKED | ATC |
| JOB No. | 22047 |

| SUBMITTALS | DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

PREPARED BY

ADAM COLLINS ENGINEERING INC.

CA# 31728 ~ P: 386.320.7400 ~ WWW.COLLINSENG.COM

CLIENT

ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE

CONNECTION DETAILS
(4 OF 4)

PROJECT

Bert Herrero
644 SW Miracle St
Lake City, FL 32024

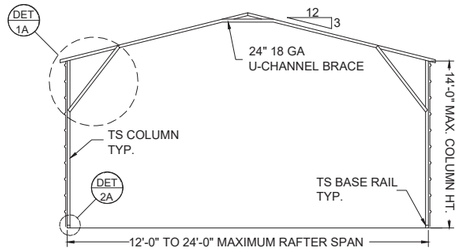
SHEET NO.

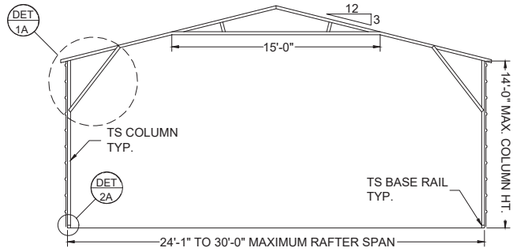
S-10

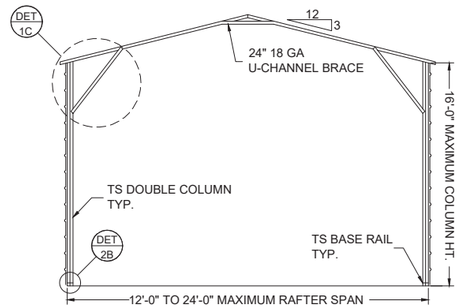
SCALE

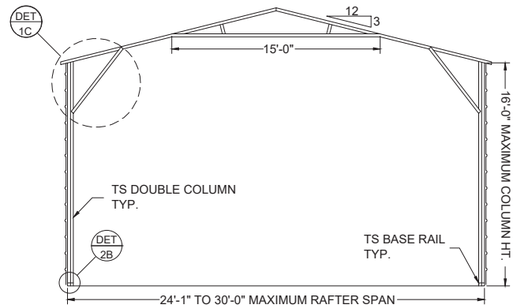
AS-SHOWN

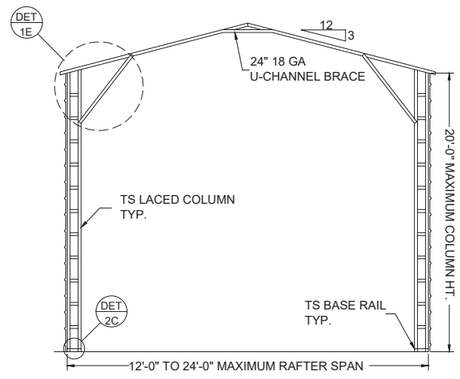
d:\ACElace - projects\elite-22047\Cad\enclosed-building-3019.dwg, USER, 12/12/2022 1:50 PM

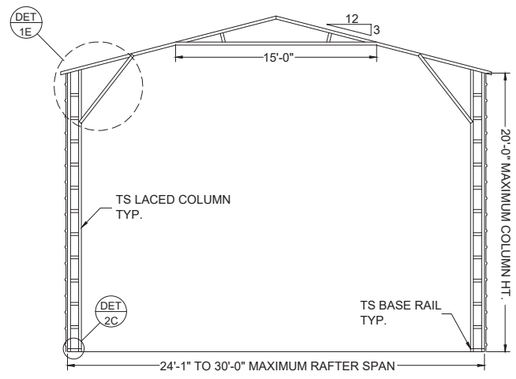


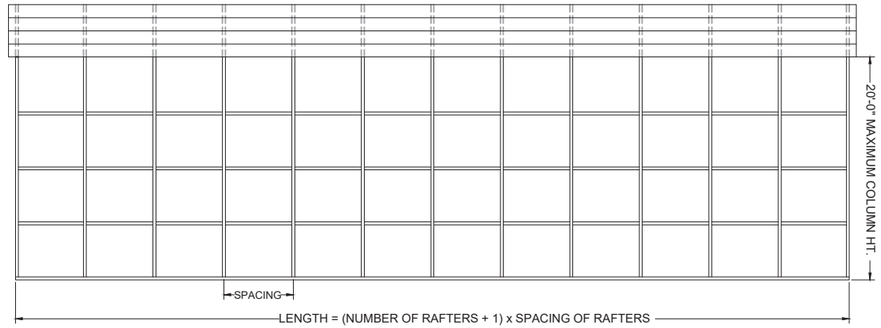




## BOX EAVE FRAME

SCALE: NTS

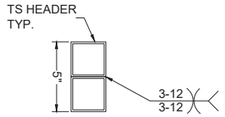



SPACING = 5'-0" FOR WIND SPEEDS BETWEEN 110 MPH AND 140 MPH
SPACING = 4'-0" FOR WIND SPEEDS BETWEEN 140 MPH AND 180 MPH
1.125" 18 GA HAT CHANNELS CAN BE USED IN LIEU OF TS FOR GIRTS.

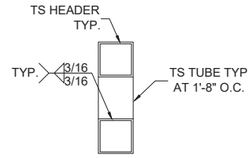
## TYPICAL SIDE FRAME SECTION

SCALE: NTS


HEADER DETAIL FOR OPENINGS
LENGTH <= 8'-0"



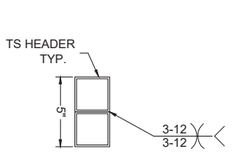

HEADER DETAIL FOR OPENINGS
8'-0" < LENGTH <= 12'-0"



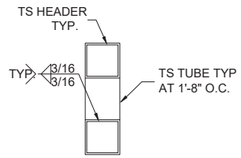

HEADER DETAIL FOR OPENINGS
10'-0" < LENGTH <= 20'-0"

## SIDE WALL OPTION HEADER

SCALE: NTS



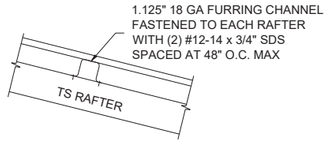

HEADER DETAIL FOR OPENINGS
LENGTH <= 12'-0"




HEADER DETAIL FOR OPENINGS
10'-0" < LENGTH <= 20'-0"

## END WALL OPTION HEADER

SCALE: NTS




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

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

| | |
|---|---|
| DATE | 2025.02.27 |
| DRAWN | SM |
| DESIGNED | DMC |
| CHECKED | ATC |
| JOB No. | 22047 |

| SUBMITTALS | DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

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

CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
BOX EAVE RAFTER VERTICAL ROOF-SIDING OPTION

PROJECT
Bert Herrero
644 SW Miracle St
Lake City, FL 32024

SHEET NO.
S-11

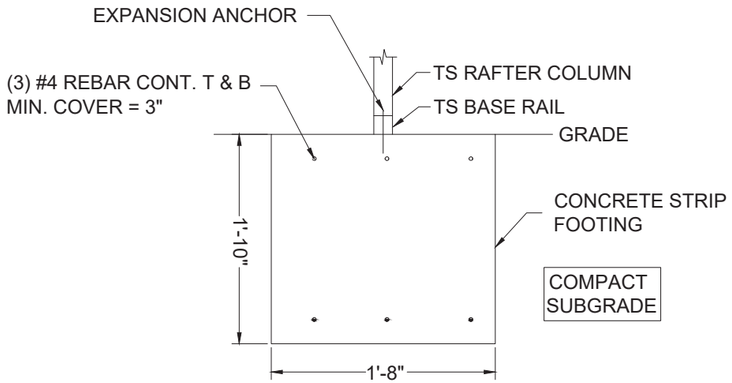
SCALE
AS-SHOWN

## GENERAL NOTES

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

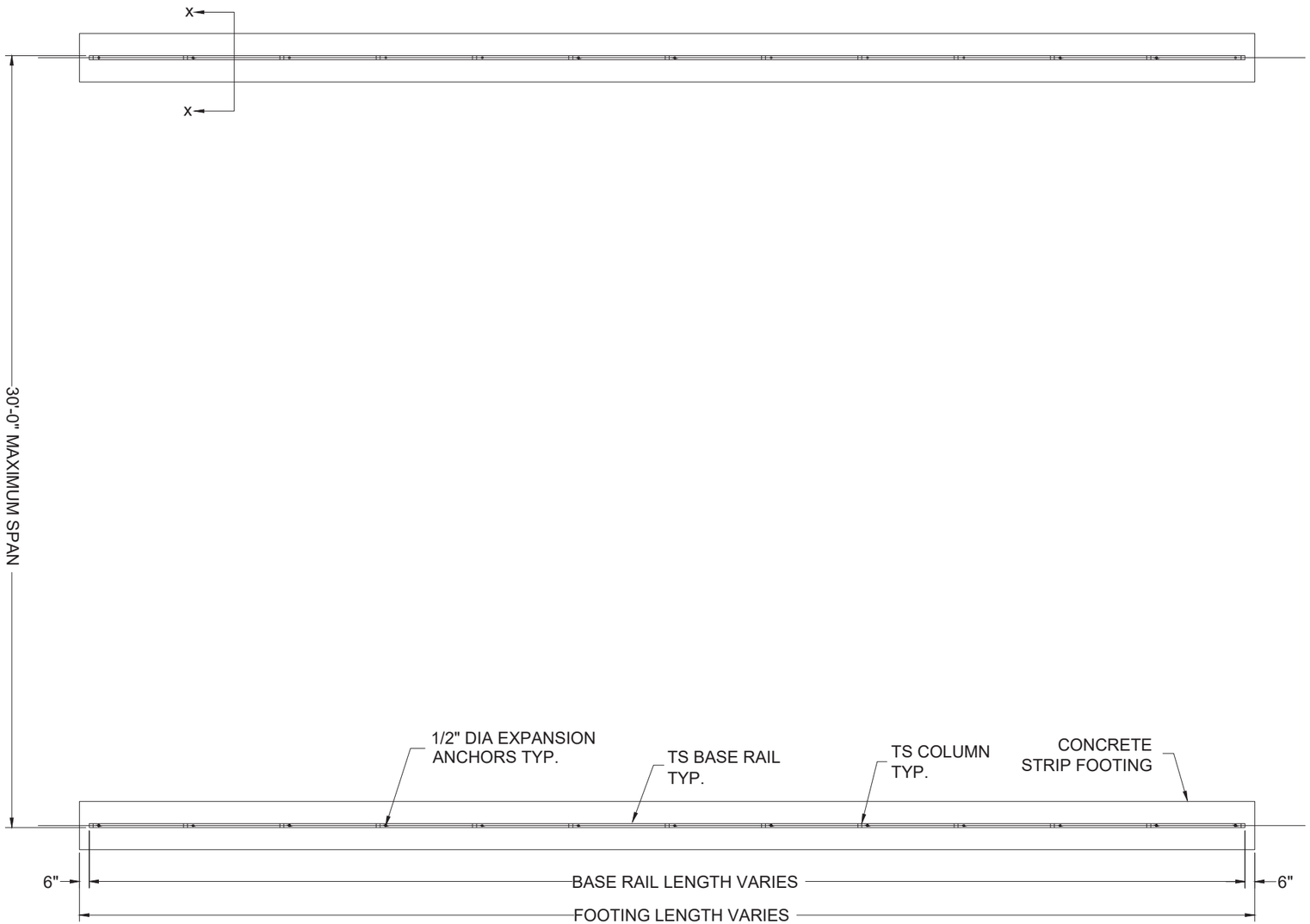
## REINFORCING STEEL

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.




## SECTION X-X

SCALE: NTS




## CONCRETE STRIP FOOTING PLAN

SCALE: NTS

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY ADAM T. COLLINS, P.E. ON 2025.02.27. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

| | |
|---|---|
| DATE | 2025.02.27 |
| DRAWN | SM |
| DESIGNED | DMC |
| CHECKED | ATC |
| JOB No. | 22047 |

| SUBMITTALS | DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

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

CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
OPTIONAL CONCRETE STRIP FOOTING

PROJECT
Bert Herrero
644 SW Miracle St
Lake City, FL 32024

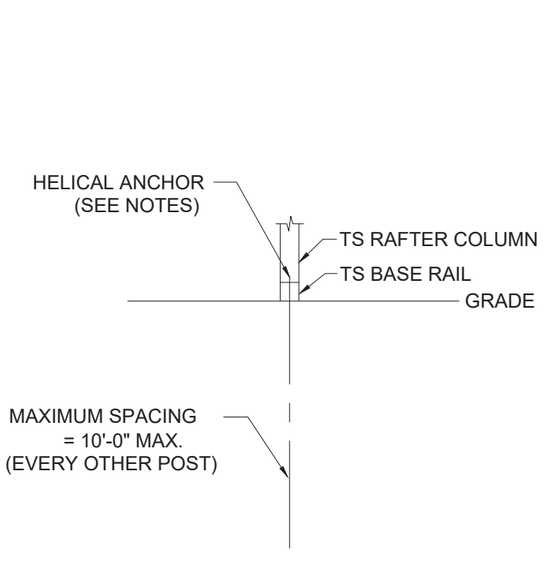
SHEET NO.
S-12

SCALE
AS-SHOWN

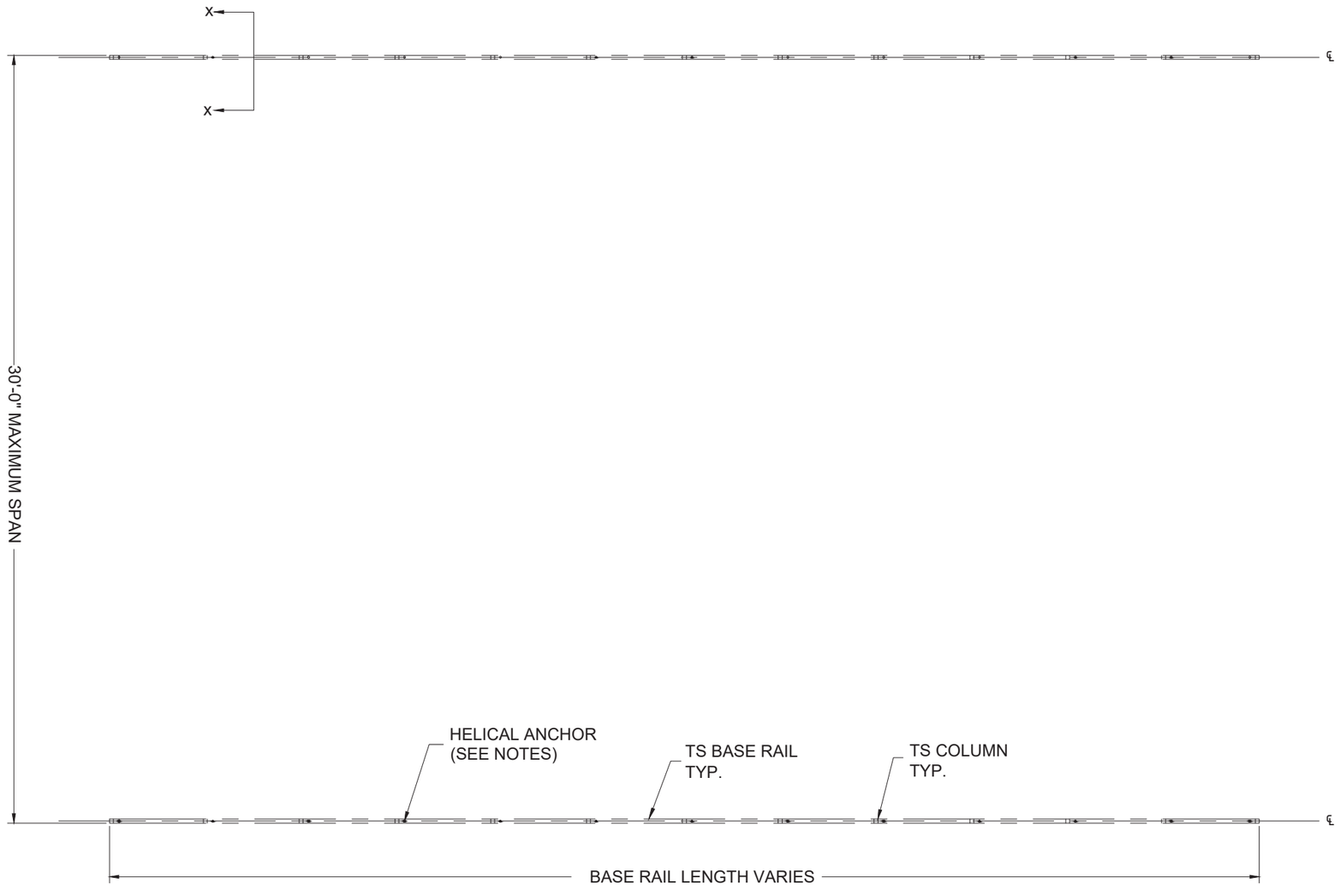
d:\ACE\ace - projects\elite-22047\Cad\enclosed-building-30\11.dwg, USER, 12/12/2022 1:50 PM

**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

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY ADAM T. COLLINS, P.E. ON 2025.02.27. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

| | |
|---|---|
| DATE | 2025.02.27 |
| DRAWN | SM |
| DESIGNED | DMC |
| CHECKED | ATC |
| JOB No. | 22047 |

| SUBMITTALS | DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

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

CLIENT
ELITE METAL MANUFACTURING
10121 88TH TRACE

SHEET TITLE
OPTIONAL HELICAL ANCHORING DETAIL

PROJECT
Bert Herrero
644 SW Miracle St
Lake City, FL 32024

SHEET NO.
S-13

SCALE
AS-SHOWN