



WINDOW AND DOOR NOTE

EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND BEAR AN IAMA OR WDMA OR OTHER APPROVED LABEL. THE LABEL SHALL BE PLACED IN THE LOWER CORNER OF THE WINDOW OR DOOR. THE FOLLOWING SPECIFICATION SHALL BE USED TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION.

ANSI/AMMANWDA 10/15/2007
THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 330, STANDARD TEST METHOD FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE.

DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE 7TH EDITION (FBC) 2020 SUPPLEMENT AMENDMENTS 2020 INTERNATIONAL BUILDING CODE (IBC), 2020 IRC AND 2012 IBC.

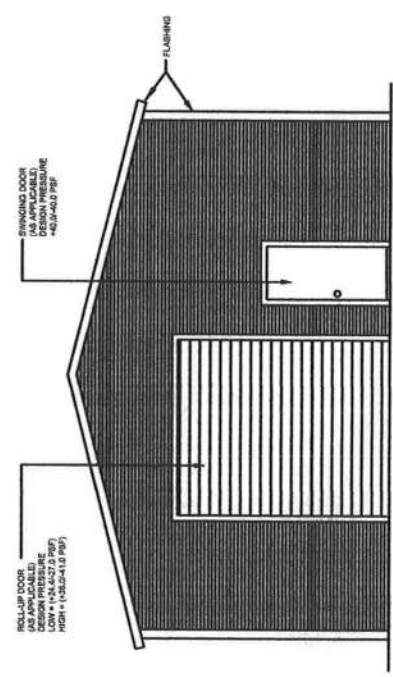
GENERAL NOTES:

1. ALL STEEL SHALL BE 60 KSI STEEL.
2. FASTEN METAL ROOF AND WALL PANELS TO FRAMING WITH 1/4" 3.24" SELF DRILLING FASTENERS WITH CONTROL SEAL WASHER @ 8" O.C. AVERAGE.
3. ALL FIELD CONNECTIONS SHALL BE #10 @ 24" SELF DRILLING SCREWS.
4. ALL SHOP CONNECTIONS SHALL BE WELDED.
5. CONCRETE EXPANSION ANCHORS SHALL BE WELT-IT ANKRA-TITE ANCHORS. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE EQUIVALENT GROUND ANCHOR REQUIREMENTS ARE TO BE EACH CORNER & ONE EVERY OTHER INTERIOR RAFTER POST LOCATION. AT A MAXIMUM 10' O.C. AND BOTH SIDES OF OPENINGS. THE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS FOR CONCRETE FOOTING AND/OR CONCRETE SLAB CONSTRUCTION.
6. POSTRAFTER BRACING BRACE ON EVERY POSTRAFTER CONNECTION, EXCEPT FOR END WALLS.

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

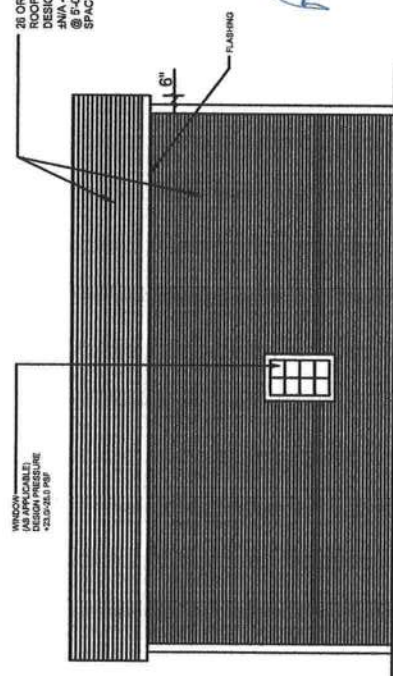
RISK CATEGORY	WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM RAFTER/BOW AND END POST SPACING (FEET)	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR FURLINS, AND POSTS OR GIRTS (INCHES)	
					INTERIOR BOWS/RAFTERS	END BOWS/RAFTERS
I, II, III, or IV	B, C, or D	115 TO 150	89 TO 116	5.0	6	6
		151 TO 180	117 TO 139	4.0	6	6

NOTES:
1. SPECIFICATIONS APPLICABLE TO 20 OR 26 GAUGE METAL PANELS FASTENED DIRECTLY TO 1/4" OR 3/8" GAUGE STEEL TUBE BOW FRAMES.
2. PANELS FASTENED TO FRAMING WITH CONTROL SEAL WASHER.
3. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF SLOPES OF 14/12 PITCH. SPACING REQUIREMENTS FOR OTHER ROOF SLOPES MAY VARY.
4. HEIGHTS AND/OR SLOPES MAY VARY.
5. 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 NAIL IS ABSENT.
6. GROUND ANCHORS ARE NOT REQUIRED WITH CONCRETE SLAB CONSTRUCTION.



TYPICAL END ELEVATION-HORIZONTAL ROOF

SCALE: NOT TO SCALE



TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

SCALE: NOT TO SCALE

PREFABRICATED UTILITY STRUCTURE

ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060



THE FOLLOWING IS COMPLIANT TO THE FLORIDA BUILDING CODE 2020, 7TH EDITION AND ASCE 7-16 FOR WIND LOADS OF 180 MPH

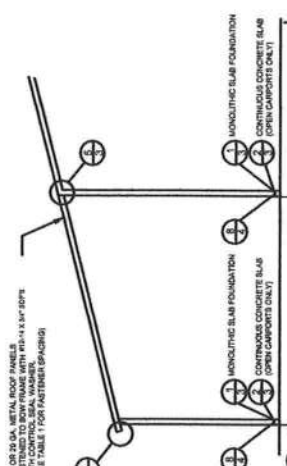
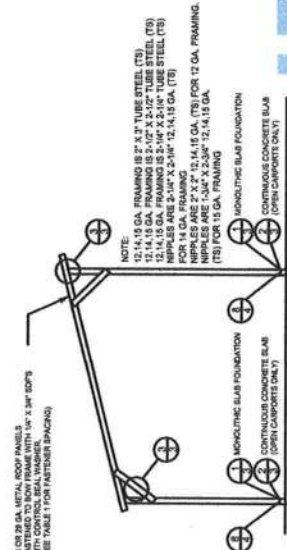
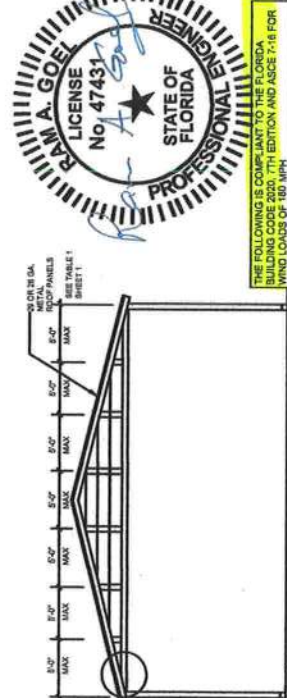
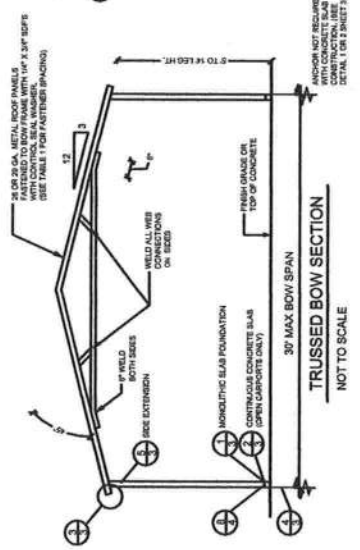
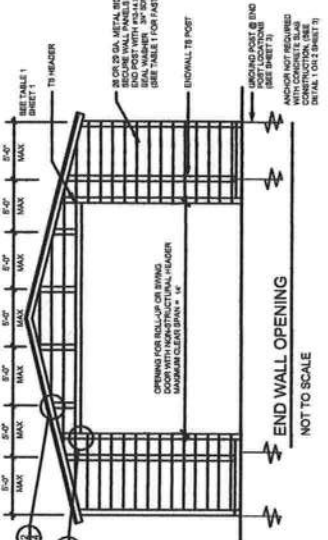
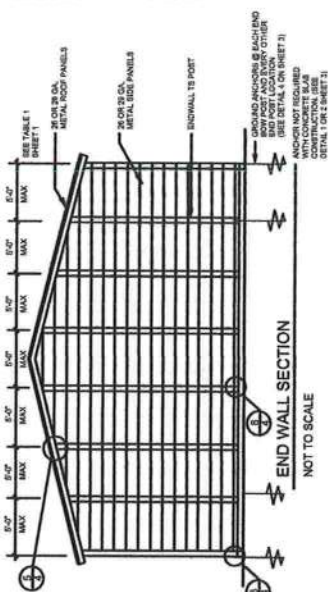
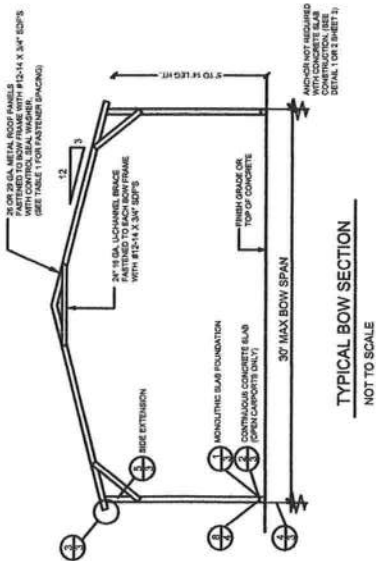
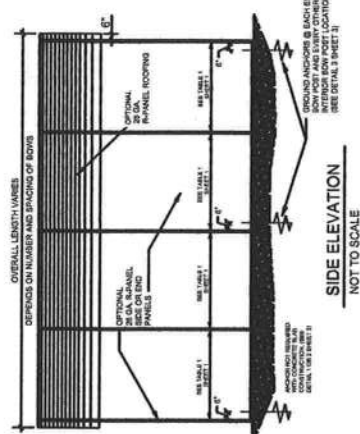
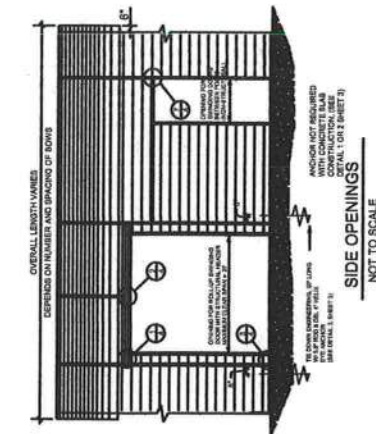
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Job # 2173
Drawn By S.K.
Checked By R.G.
Issue Date 08-18-21

Revisions:	Description
1	As Noted
2	As Noted
3	As Noted
4	As Noted
5	As Noted



RAM A. COEL, P.E., # 47431

IN END WALL SECTION

Ram Goel
 DNI: 10485904037
 Email: ramgoel@yahoo.com
 CWPan Goel,
 QWENGINEERING,
 C-Goelcy PVI LLC,
 L* Tampa, 34 Florida, C-US
 Date: 2021.09.29

14' MAX SPAN
NO STAY CABLES REQUIRED
NO LIGANDS, NO SLAB
CONSTRUCTION SEE DETAIL 1 OR 2 SHEET 15

TYPICAL FREESTANDING LEAN-TO

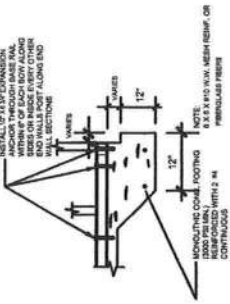
NOT TO SCALE

[illegible]

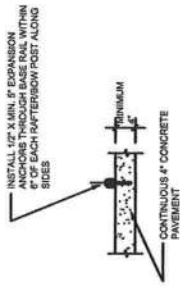
14' MAX SPAN
ANCHOR NOT REQUIRED
WITH CONCRETE SLAB
CONSTRUCTION SEE DETAIL 1 OR 2 SHEET 1)

TYPICAL SIDE EXTENSION

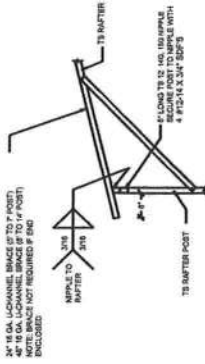
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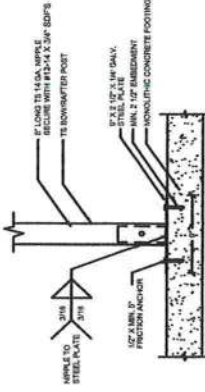
1 CONCRETE BASE RAIL ANCHORAGE (OPTIONAL)
SCALE: NTS



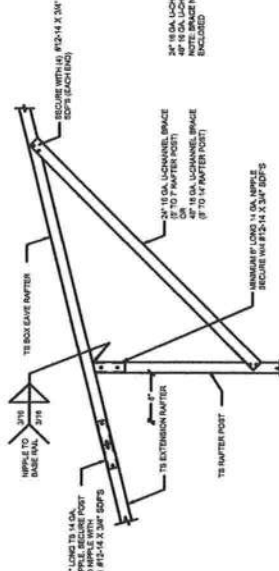
2 CONCRETE BASE RAIL ANCHORAGE (OPTIONAL - OPEN CARPORT ONLY)
SCALE: NTS



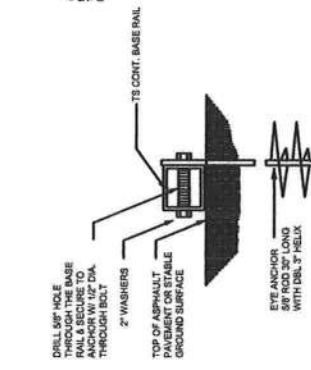
3 BOX EAVE RAFTER/CORNER POST DETAIL
SCALE: NTS



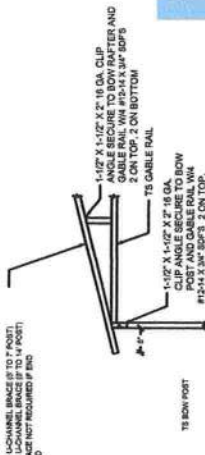
4 ALTERNATE POST TO CONCRETE FOUNDATION CONNECTION DETAIL
SCALE: NTS



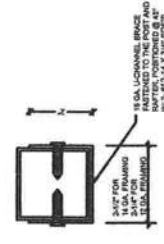
5 SIDE EXTENSION RAFTER/CORNER POST DETAIL
SCALE: NTS



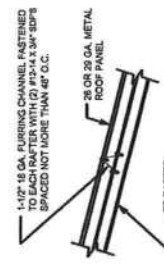
6 BASE RAIL ANCHORAGE
SCALE: NTS



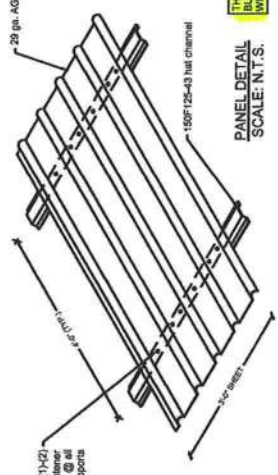
7 CABLE RAIL TO RAFTER POST CONNECTION DETAIL
SCALE: NTS



8 BRACE SECTION
SCALE: NTS



9 ROOF PANEL ATTACHMENT
SCALE: NTS



10 PANEL DETAIL
SCALE: N.T.S.



THE FOLLOWING IS COMPLIANT TO THE FLORIDA BUILDING CODE 2001, 7TH EDITION AND ASCE 7-16 FOR WIND LOADS OF 120 MPH.

NOTE:
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RAM A. GOEL, P.E. # 47431
CREATED ON 05/14/2024 AT 10:00 AM
CERTIFIED BY THE BOARD OF PROFESSIONAL ENGINEERS

PREFABRICATED UTILITY STRUCTURE

ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

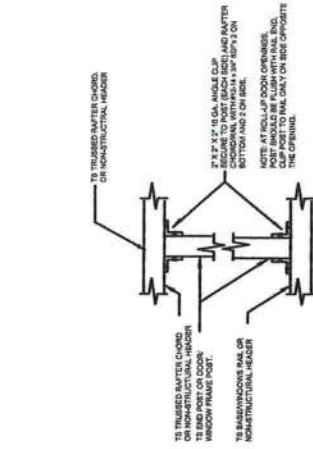
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Issue Date: 08-18-21
Revisions:
No. Date Description
1 08-18-21 Initial Design
2 08-18-21 Revised Design
3 08-18-21 Revised Design
4 08-18-21 Revised Design
5 08-18-21 Revised Design
6 08-18-21 Revised Design
7 08-18-21 Revised Design
8 08-18-21 Revised Design
9 08-18-21 Revised Design
10 08-18-21 Revised Design

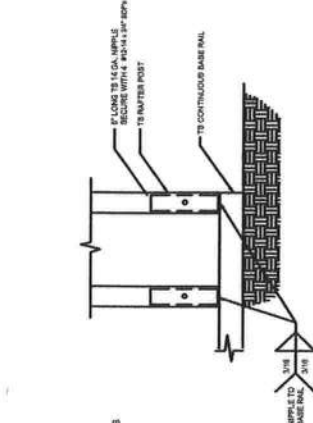
Job # 2173
Drawn By: S.K.
Checked By: R.G.

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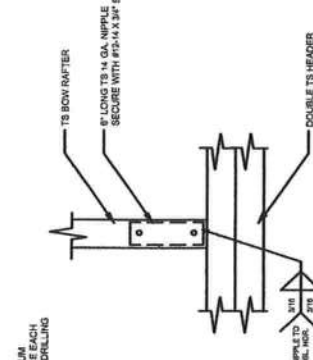




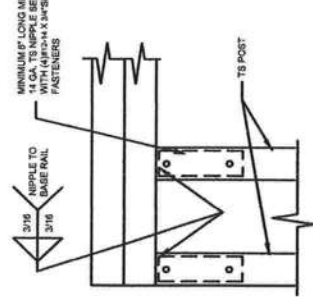
1 RAFTER POST/DBL. HEADER DETAIL
SCALE: NTS



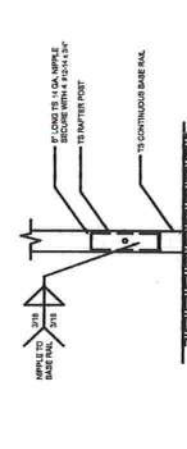
2 RAFTER POSTBASE BASE RAIL CONNECTION DETAIL
SCALE: NTS



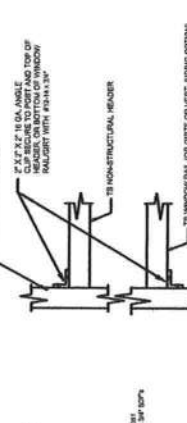
3 RAFTER POSTBASE BASE RAIL CONNECTION DETAIL
SCALE: NTS



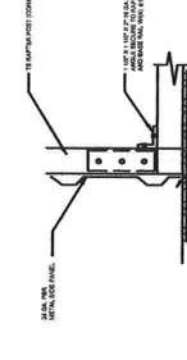
4 POST TO RAIL, TRUSS CHORD, OR NON-STRUCTURAL HEADER CONN. DETAIL
SCALE: NTS



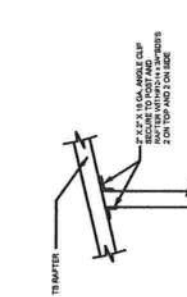
5 END POST/RAFTER CONN. DETAIL
SCALE: NTS



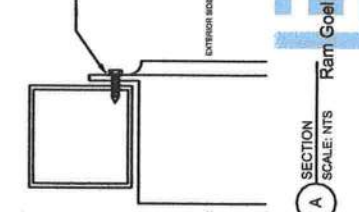
6 END POST/BASE RAIL CONN.
SCALE: NTS



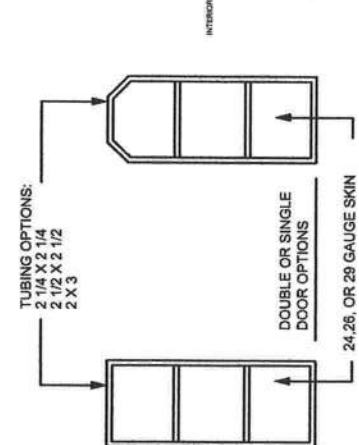
7 NON-STRUCTURAL HEADER, WINDOW RAIL, OR GIRT TO POST CONN. DETAIL
SCALE: NTS



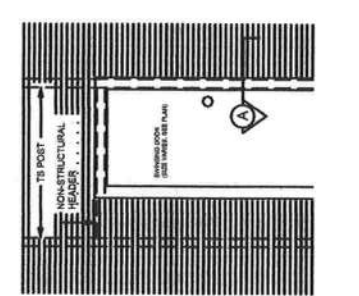
8 POSTBASE RAIL CONN. DETAIL
SCALE: NTS



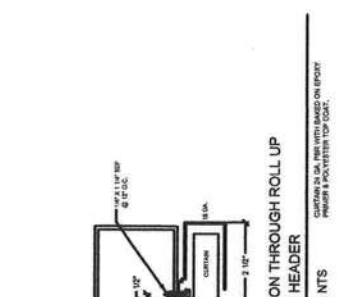
A SECTION THROUGH ROLL UP DOOR HEADER
SCALE: NTS



6 END POST/BASE RAIL CONN.
SCALE: NTS



7 NON-STRUCTURAL HEADER, WINDOW RAIL, OR GIRT TO POST CONN. DETAIL
SCALE: NTS



8 POSTBASE RAIL CONN. DETAIL
SCALE: NTS

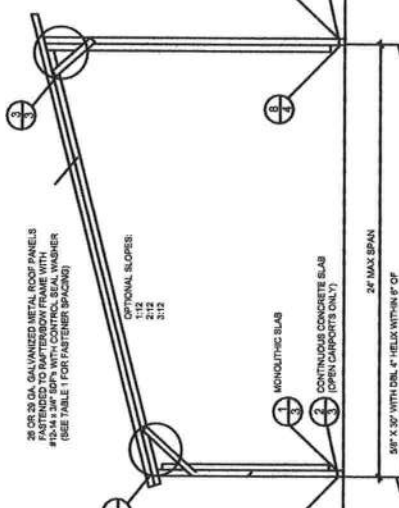
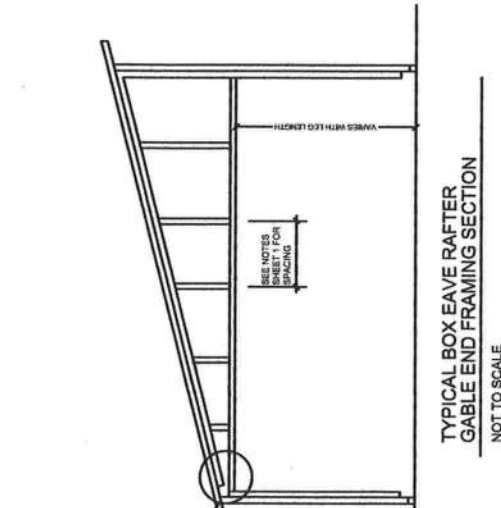
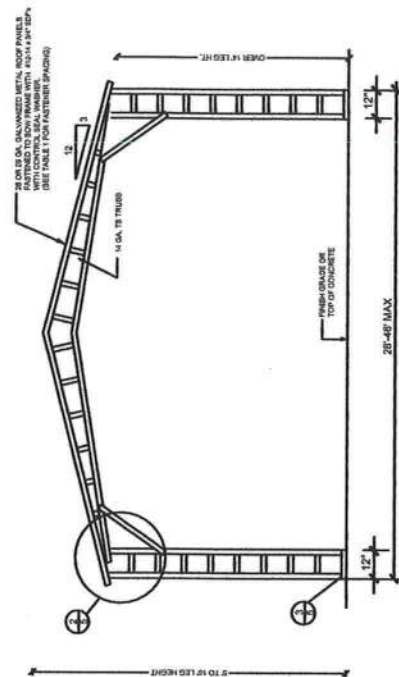
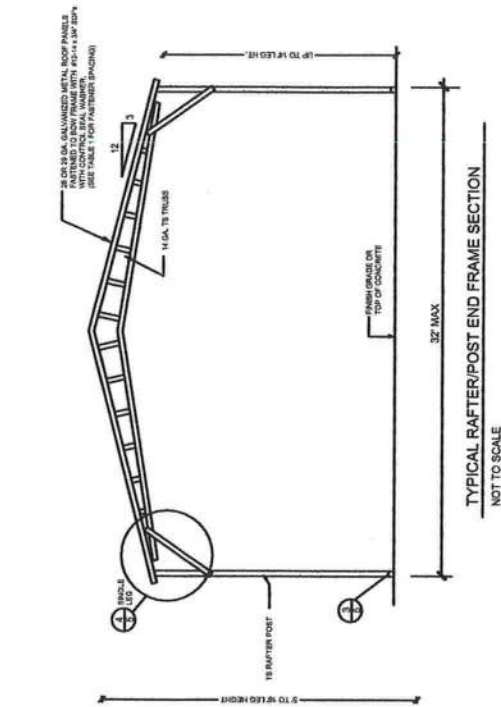
A SECTION THROUGH ROLL UP DOOR HEADER
SCALE: NTS

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Job # 2173
Drawn By: S.K.
Checked By: R.G.
Issue Date: 08-18-21
Revisions:
1/1/21
2/1/21
3/1/21
4/1/21
5/1/21
6/1/21
7/1/21
8/1/21
9/1/21
10/1/21
11/1/21
12/1/21

PREFABRICATED UTILITY STRUCTURE
ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

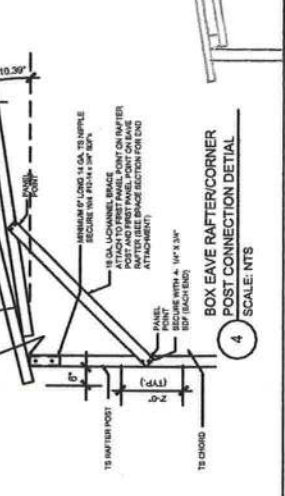
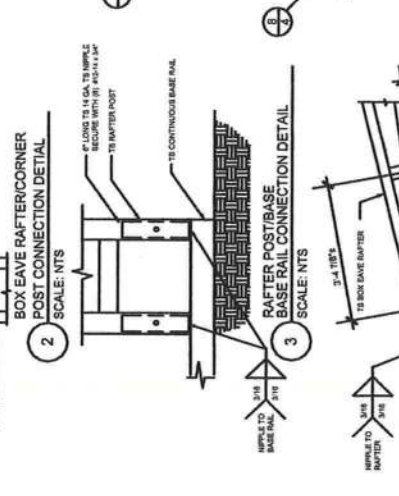
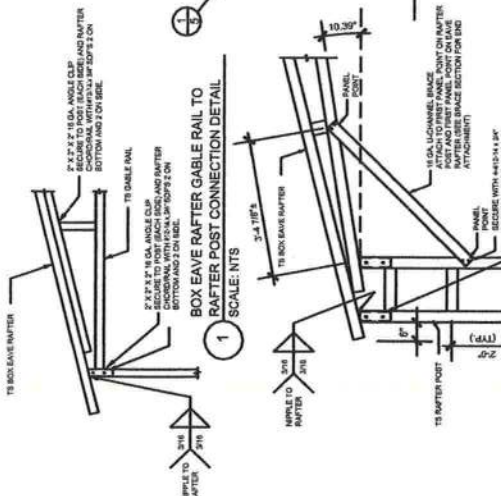
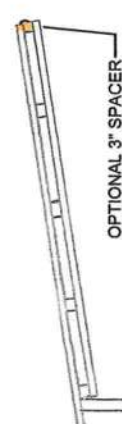
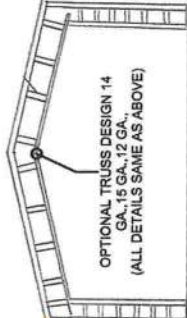
5



THE FOLLOWING IS COMPLIANT TO THE FLORIDA BUILDING CODE 2020, 7TH EDITION AND ASCE 7-16 FOR WIND LOADS OF 150 MPH

Ram Goel
Professional Engineer
No. 47431
State of Florida

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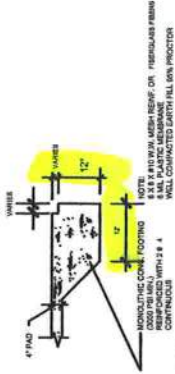
DR. RAM A. GOEL, P.E., P.E.
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Job # 2173
Drawn By: S.K.
Checked By: R.G.

Issue Date: 08-18-21
Revisions:
No. Date Description
1 1/1
2 1/1
3 1/1

ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

6



1 MONOLITHIC FOOTING (TYP.)
SCALE: NTS

CONCRETE:
CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
COVER OVER REINFORCING STEEL:
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE:
3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND
PREMANENTLY IN CONTACT WITH EARTH OR EXPOSED TO THE EARTH OR WEATHER
AND 1 1/2" ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE
A MINIMUM CLEAR DISTANCE OF 1/4" FOR FINE GROUT OR 1/2" FOR COARSE GROUT
BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN
MASONRY WALLS SHALL HAVE A MASONRY COVER (INCLUDING GROUT) OF NOT LESS THAN
2" FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2" FOR MASONRY
UNITS NOT EXPOSED TO EARTH OR WEATHER.

REINFORCING STEEL:
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40.

GALVANIZATION:
METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION NOT DIRECTLY EXPOSED TO
THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2, METAL
TYPE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE
IN 3" STAINLESS STEEL OR HOT DIPPED GALVANIZED.

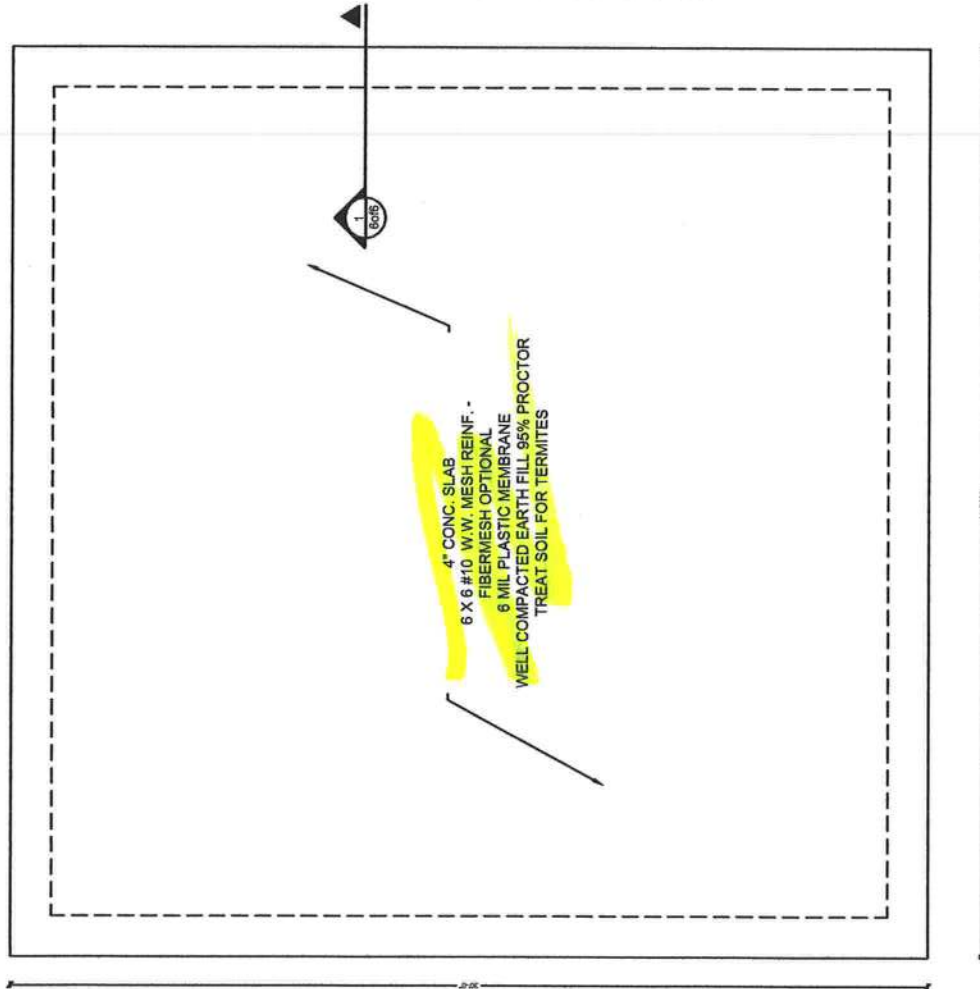
REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:
1. ALL REINFORCEMENT IS BENT COLD
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN 8-BAR
DIAMETERS AND
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN BARS WITH A VERTICAL CELL, BARS PARTIALLY
EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE NOT MORE THAN 1" OF
THE HORIZONTAL DISPLACEMENT TO 6" OF VERTICAL BAR LENGTH.



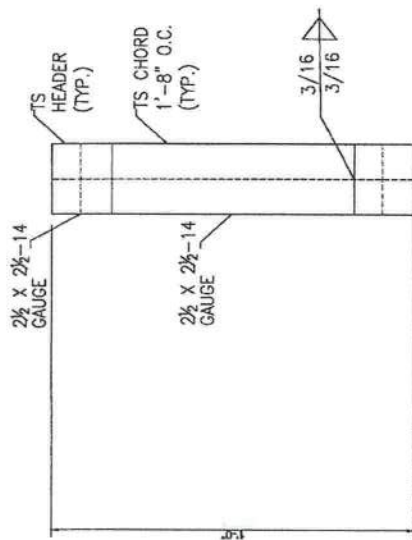
THE FOLLOWING IS COMPLIANT TO THE FLORIDA
BUILDING CODE 2003, 7TH EDITION AND ASCE 7-10 FOR
WIND LOADS OF 115 MPH

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4" CONC. SLAB
6 X 6 #10 W.W. MESH REINF. -
FIBERMESH OPTIONAL
6 MIL PLASTIC MEMBRANE
WELL COMPACTED EARTH FILL 95% PROCTOR
TREAT SOIL FOR TERMITES

OPTIONAL HEADER



HEADER DETAIL FOR DOOR
OPENINGS 12'-0" < LENGTH < 20'-0"

SEE PLAN



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Job # 2173
Drawn By: S.K.
Checked By: R.G.

Issue Date: 08-18-21
Revisions:
Rev. No. Description
1.11
2.11
3.11
4.11

OPTIONAL HEADER
ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

7

THE FOLLOWING IS COMPLIANT TO THE FLORIDA
BUILDING CODE 2020, 7TH EDITION AND ASCE 7-16 FOR
WIND LOADS OF 150 MPH

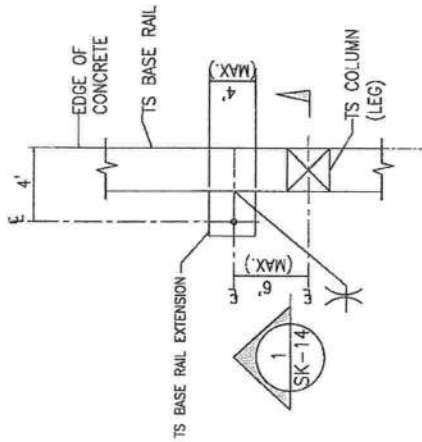
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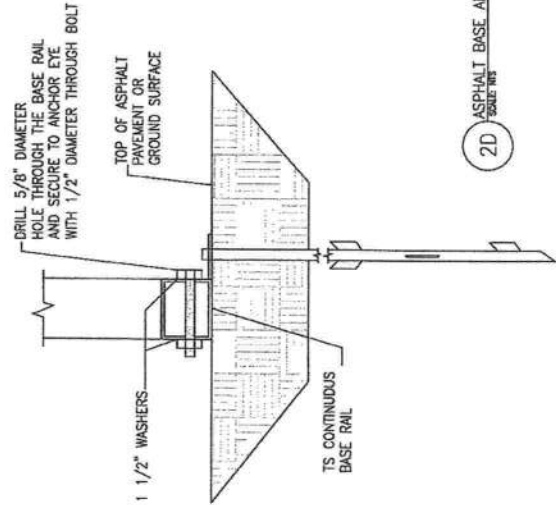
Dr. Ram A. Goel, P.E. # 47431
Professional Engineer
State of Florida



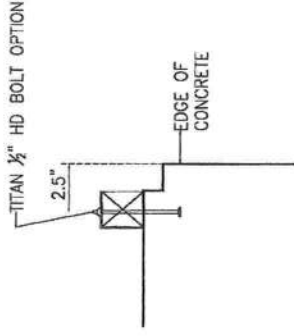
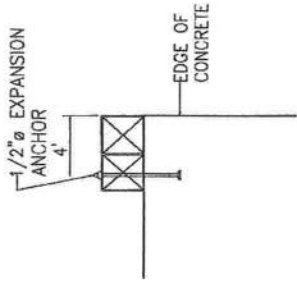
ADDITIONAL BASE RAIL ANCHORAGE OPTION



TYPICAL ANCHOR DETAIL WHEN
BASE RAIL IS NEAR EDGE OF CONCRETE
SCALE: N.T.S.



2D ASPHALT BASE ANCHORAGE
SCALE: N.T.S.



SECTION 1
SCALE: N.T.S.
SK-14



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Job # 2173
Drawn By: S.K.
Checked By: R.G.

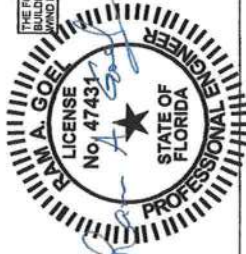
Issue Date: 08-18-21

Rev.	By	Reason
1	SK	Original
2	SK	Revised
3	SK	Revised
4	SK	Revised
5	SK	Revised
6	SK	Revised
7	SK	Revised
8	SK	Revised
9	SK	Revised
10	SK	Revised

ADDITIONAL BASE RAIL ANCHORAGE OPTION
ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

Ram Goel
Digitally signed by Ram Goel
DN: cn=Ram Goel, o=Elite Metal Manufacturing, LLC, ou=Engineering, email=ramgoel@elitemetal.com, c=US
Date: 2021.08.28 10:20:18-0400

THE FOLLOWING IS COMPLIANT TO THE FLORIDA
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