

INSTALLATION NOTES AND SPECIFICATIONS

- DESIGN IS FOR MAXIMUM 20'-0" WIDE X 10'-0" EAVE HEIGHT UTILITY STRUCTURES.
- DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION.
- DESIGN LOADS ARE AS FOLLOWS:
 - DEAD LOAD = 15 PSF
 - LIVE LOAD = 12 PSF
 - GROUND SNOW LOAD = 0 PSF (24'-0" WITH U-CHANNEL RAFTER TIE)
- ULTIMATE WIND SPEED 170 MPH (NOMINAL WIND SPEED V_{asd} 132 MPH)
MAXIMUM RAFTER / POST AND END POST SPACING = 4'-0" (UNLESS NOTED OTHERWISE).
- RISK CATEGORY: I
- WIND EXPOSURE CATEGORY: B
- SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/4" X 2 1/4" - 14 GAUGE TUBE STEEL (TS) FOR (UNLESS NOTED OTHERWISE).
- AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 6" O.C. (MAX).
- FASTENERS CONSIST OF 1/4" X 3/4" SELF DRILLING FASTENER (SDF) FOR, USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20'-0" OR LESS, AND ROOF SLOPES OF 14° (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND / OR SLOPES MAY VARY.
- GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES AND ENDS.
- GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR WITH WELDED NUT X 30" LONG IN SUITABLE SOIL CONDITIONS OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED NOT ALLOWED FOR HIGH WIND APPLICATION.
- WIND FORCES GOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE:
SOIL SITE CLASS = D
RISK CATEGORY I/II/III
 $R = 3.25$ $I_c = 1.0$
 $S_{DS} = 1.522$ $V = C_s W$
 $S_{DI} = 0.839$

PRODUCT APPROVAL:		
1	ROOF PANEL	APPROVAL CODE 9903.5
2	WALL PANEL	APPROVAL CODE 14024.1
3	ROLL-UP DOOR	APPROVAL CODE 17817.2
4	WALK-IN DOOR	APPROVAL CODE 17996.3
5	WINDOWS	APPROVAL CODE 993.8
NOTE: PRODUCT APPROVAL CODES PROVIDED BY OTHERS		

WINDOW AND DOOR NOTE

EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND BEAR AN AAMA OR WDMA OR OTHER APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION.

ANSI/AAMA/NWDA 101/1S 2/97
THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 330, STANDARD TEST METHODS FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE.

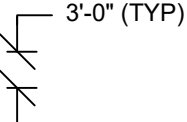
DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE 7TH ED. (FBC) WITH 2012 SUPPLEMENT AMENDMENTS 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC AND 2012 IBC.

GENERAL NOTES:

- ALL STEEL SHALL BE 50 KSI STEEL.
- FASTEN METAL ROOF AND WALL PANELS TO FRAMING WITH 1/4" X 3/4" SELF DRILLING FASTENERS WITH CONTROL SEAL WASHER @ 6" O.C. AVERAGE.
- ALL FIELD CONNECTIONS SHALL BE 1/4" X 3/4" SELF DRILLING SCREWS.
- ALL SHOP CONNECTIONS SHALL BE WELDED.
- GROUND ANCHOR REQUIREMENTS ARE 1@ EACH CORNER & ONE EVERY OTHER INTERIOR RAFTER POST LOCATION. AT A MAXIMUM 10'-0" O.C., AND BOTH SIDES OF OPENINGS WHERE BASE RAIL IS ABSENT.
- POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS.

FOR SITE SPECIFIC PLANS ONLY

3	2	3
2	1	2
3	2	3
3	2	3
2	1	2
3	2	3



WIND PRESSURES		
ZONE	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
1	13	-27
2	18	-51
3	19	-77
4	28	-31
5	31	-40

Engineer: Kent Bice
FL License #: 50421
COA# 30468



05/31/23

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GA SOUTHERN STEEL BUILDINGS INC.

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DRAWING NO. E04052-23

PREFABRICATED UTILITY STRUCTURE:

New Millennium
Lake City, FL

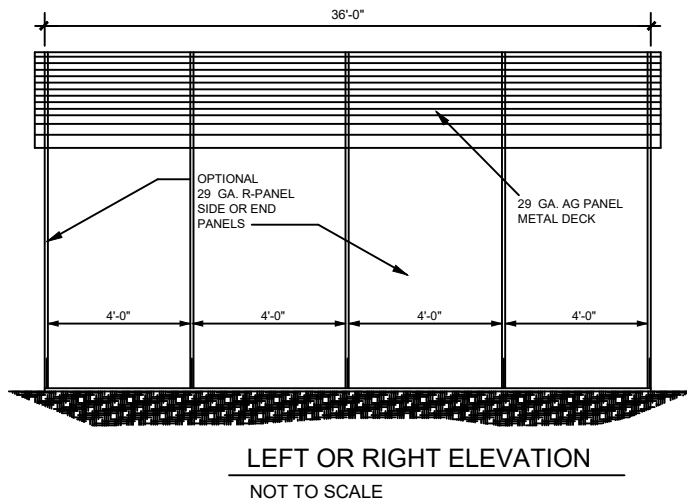
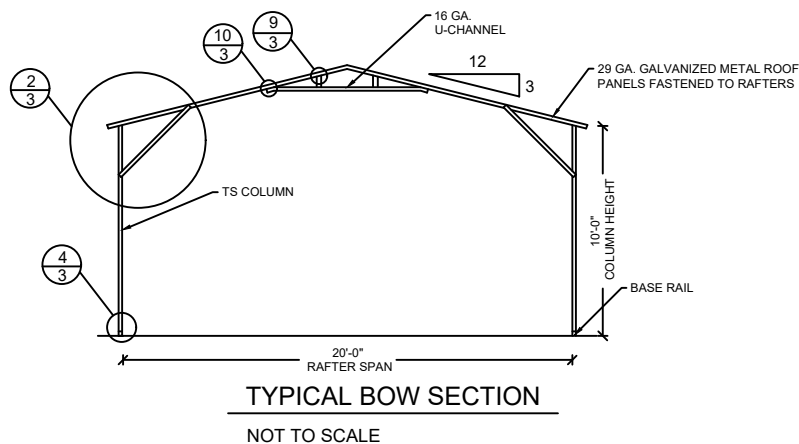
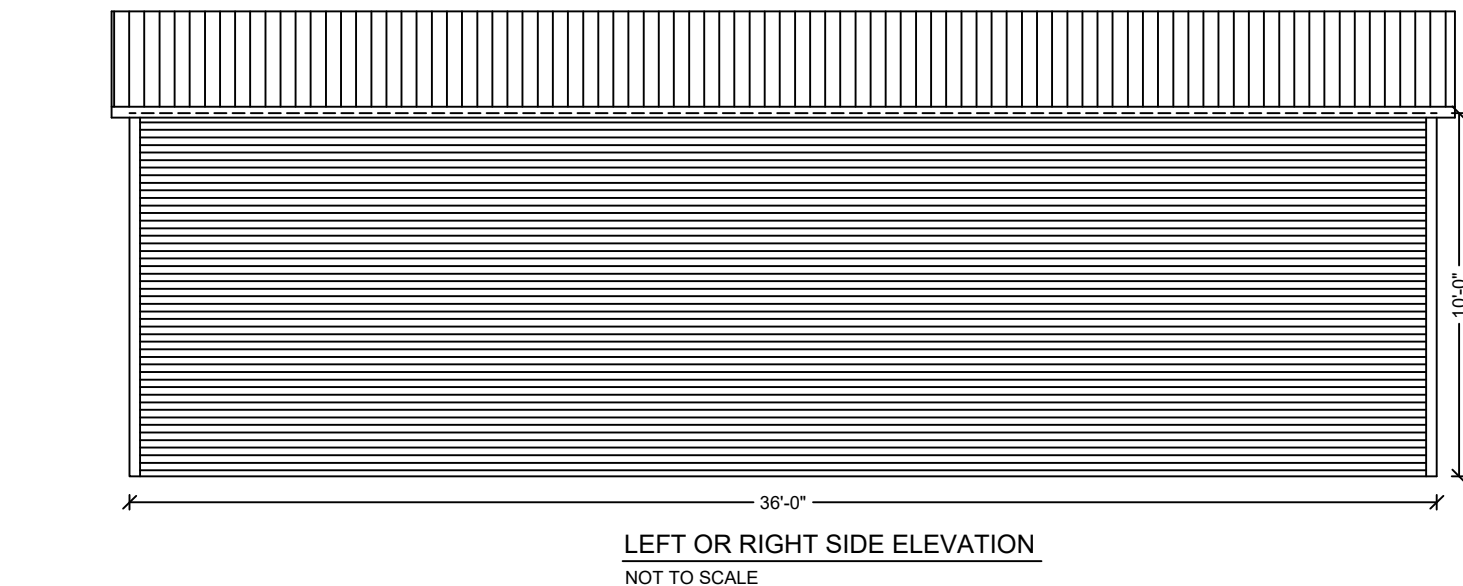
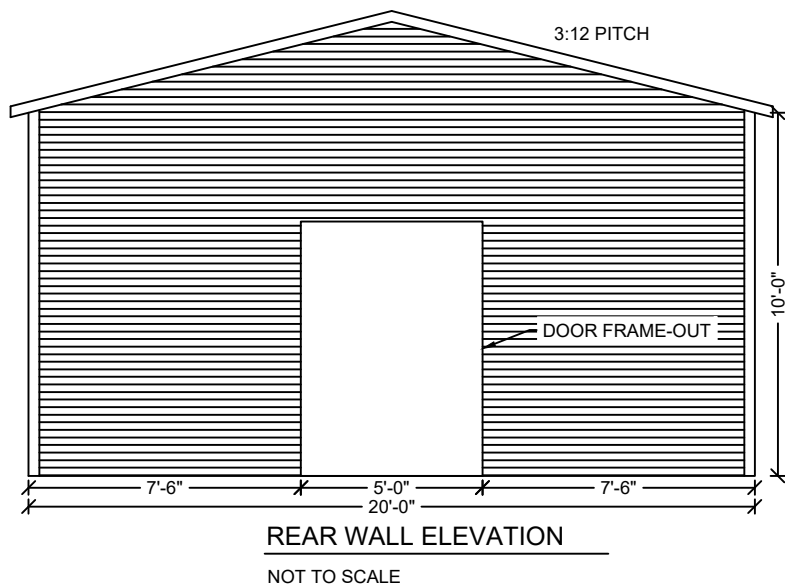
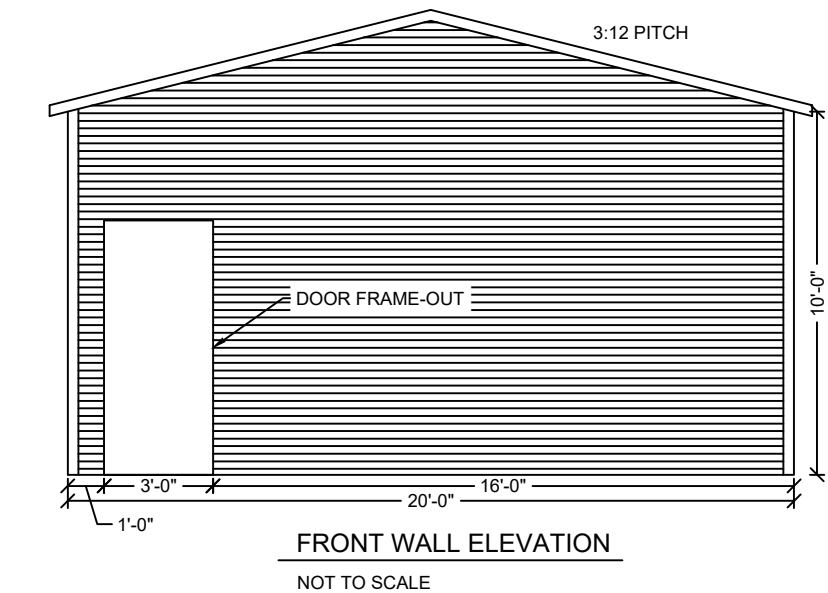
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OF

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New Millennium
Lake City, FL

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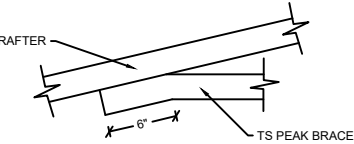
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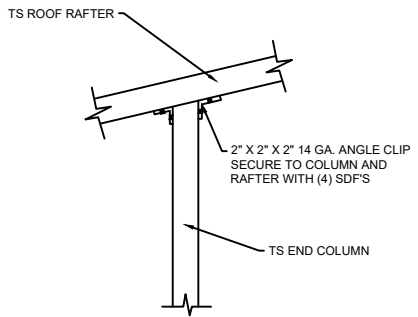
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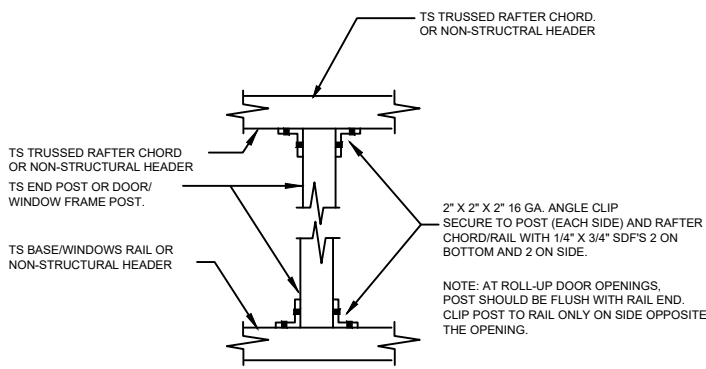
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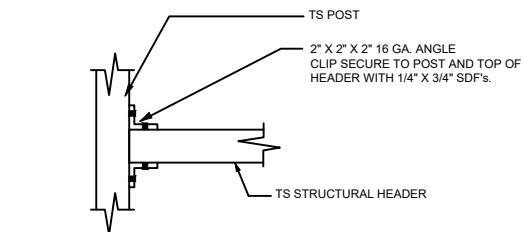
10 PEAK BRACE CONN. DETAIL
SCALE: NTS



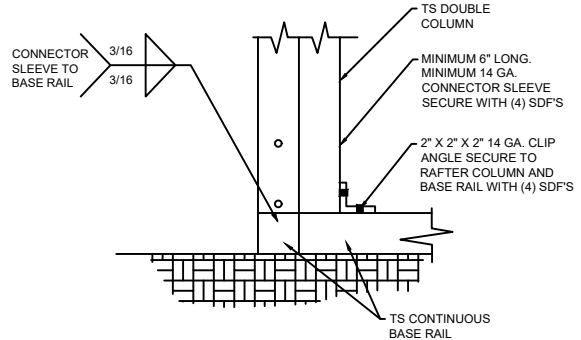
9 END COLUMN/RAFTER CONN. DETAIL
SCALE: NTS



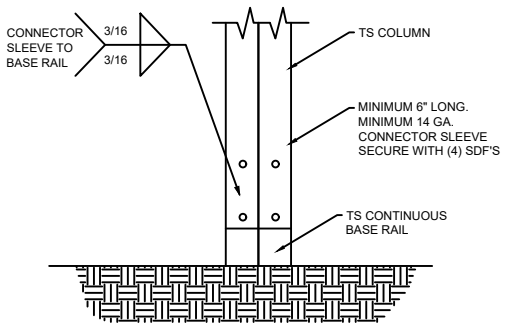
6 POST TO RAIL, TRUSS CHORD, OR
STRUCTURAL HEADER CONN. DETAIL
SCALE: NTS
(NOTE: PLACE (1) @ CENTER OF DOOR HEADER.)



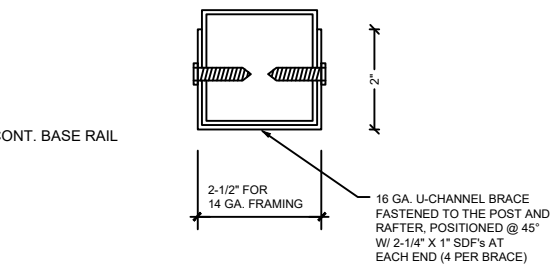
11 NON-STRUCTURAL HEADER, WINDOW
RAIL, OR GIRT TO POST CONN. DETAIL
SCALE: NTS



4 COLUMN/BASE RAIL CONN. DETAIL
SCALE: NTS

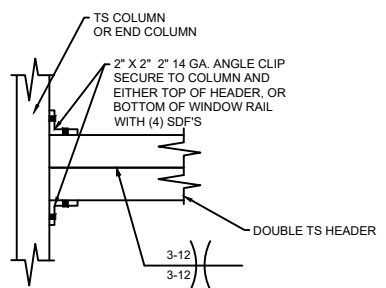


3 POST/BASE RAIL CONN. DETAIL
SCALE: NTS

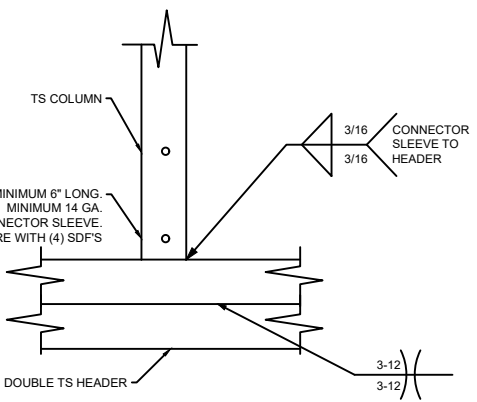


2 BOX EAVE RAFTER/CORNER
POST DETAIL
SCALE: NTS

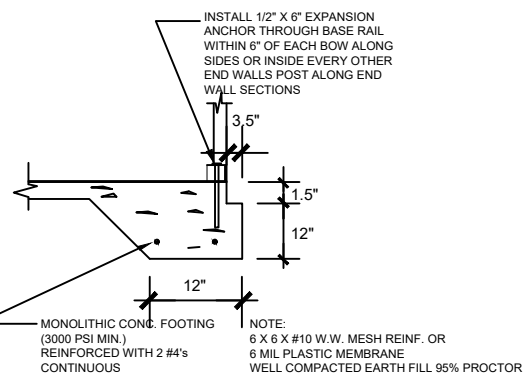
BRACE SECTION
SCALE: NTS



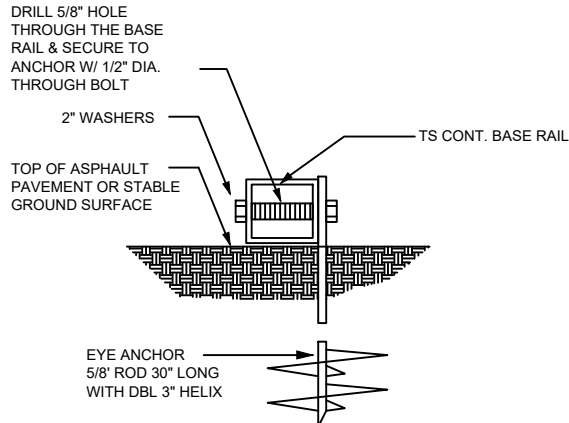
5A COLUMN OR WINDOW RAIL TO POST
CONN. DETAIL
SCALE: NTS



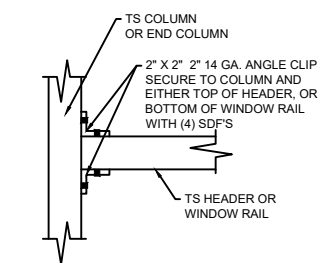
8 HEADER/COLUMN CONN. DETAIL
SCALE: NTS



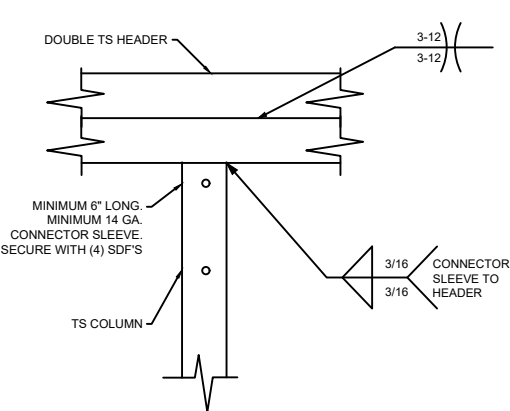
1 CONCRETE BASE RAIL ANCHORAGE
SCALE: NTS



1A BASE RAIL ANCHORAGE
SCALE: NTS

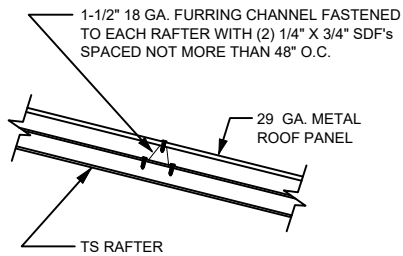


5 COLUMN OR WINDOW RAIL TO POST
CONN. DETAIL
SCALE: NTS

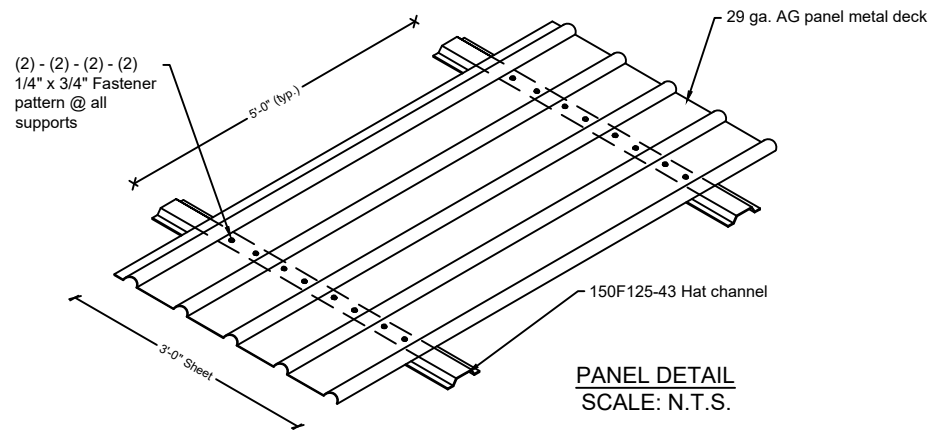


7 HEADER/COLUMN CONN. DETAIL
SCALE: NTS

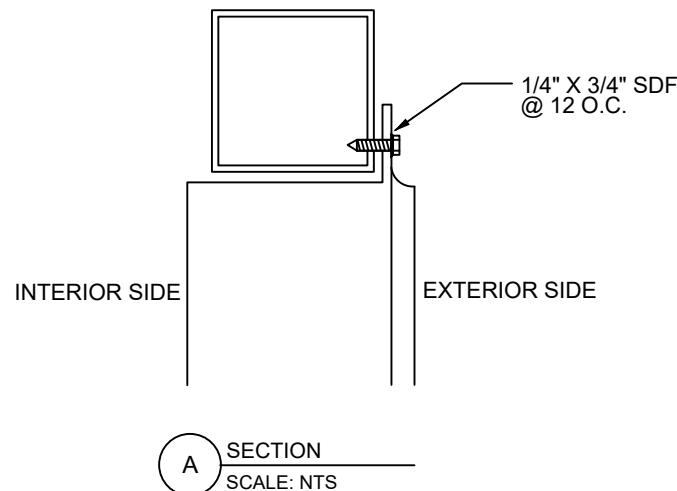
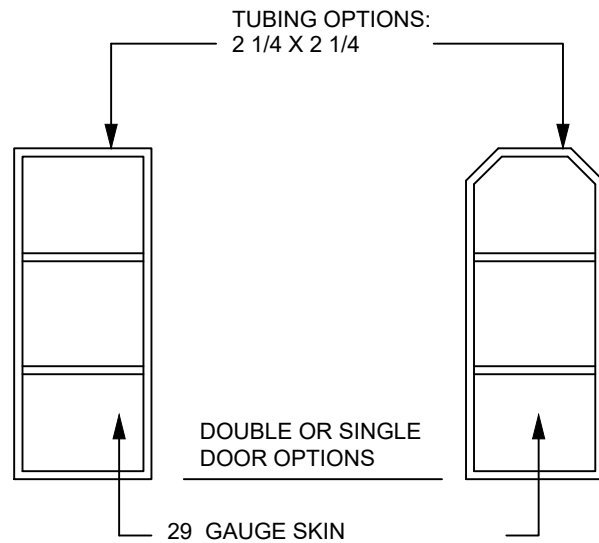
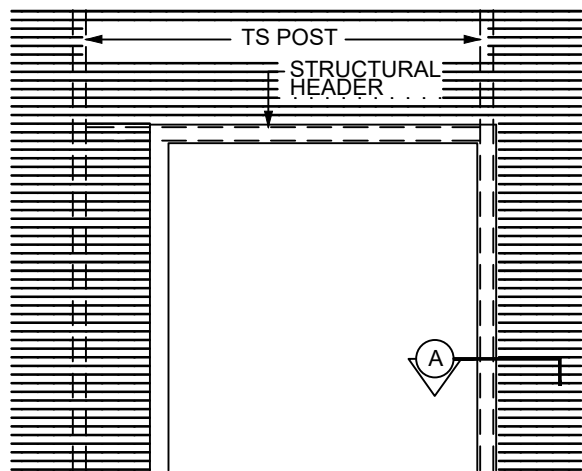
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ROOF PANEL ATTACHMENT
ALTERNATE FOR VERTICAL ROOF PANELS
SCALE: NTS



PANEL DETAIL
SCALE: N.T.S.



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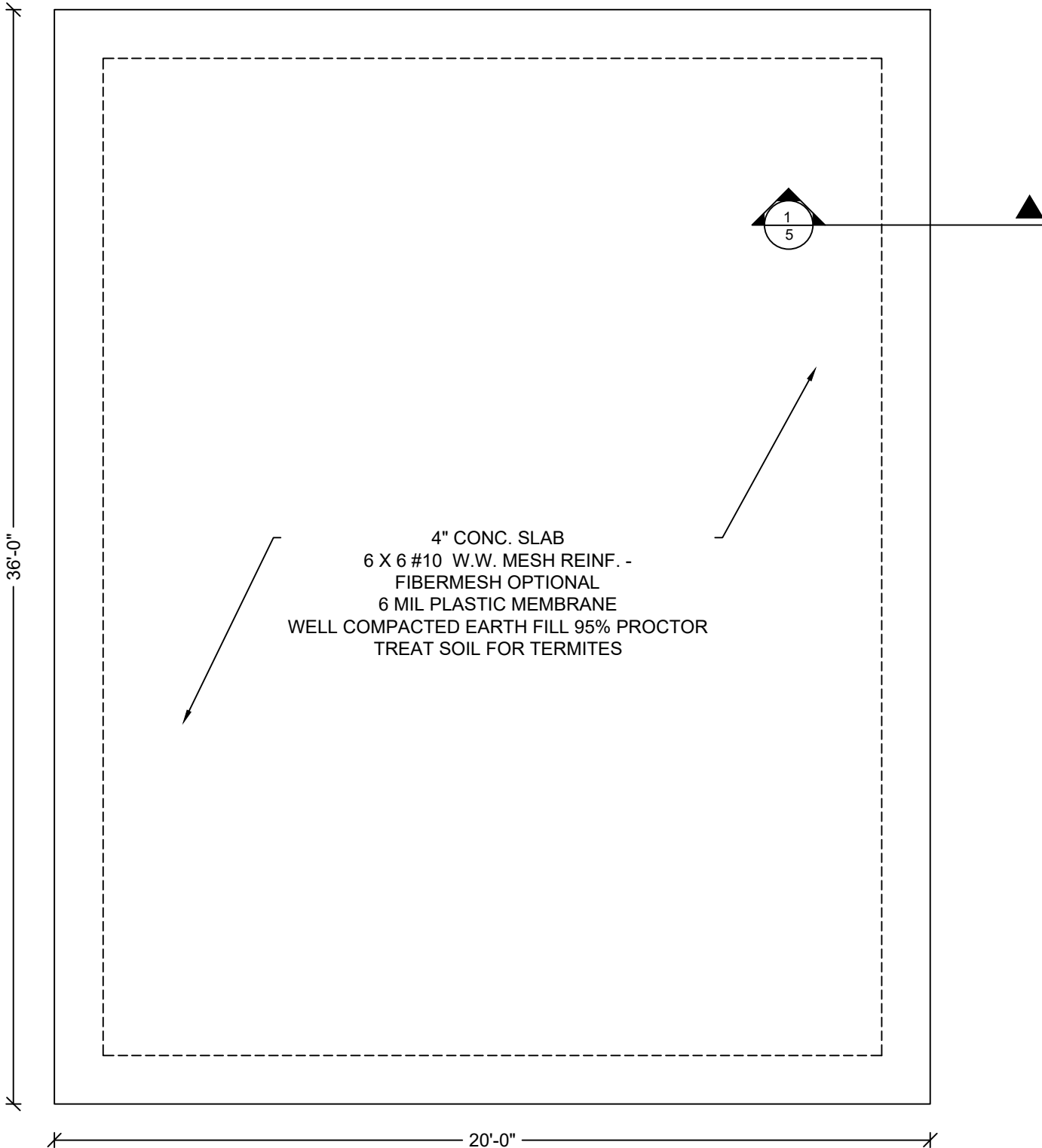
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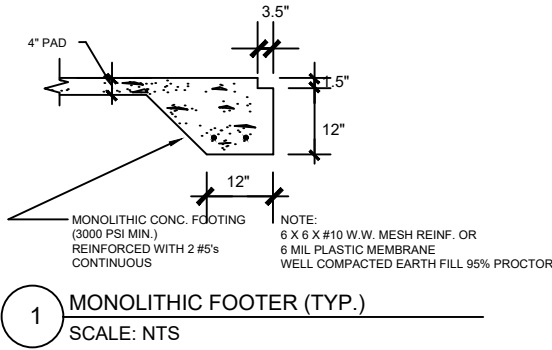
PREFABRICATED UTILITY STRUCTURE:
New Millennium
Lake City, FL

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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



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
PERMANENTLY IN CONTACT WITH EARCH 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 COURSE 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 EARCH 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
PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE
IN 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 6-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.

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