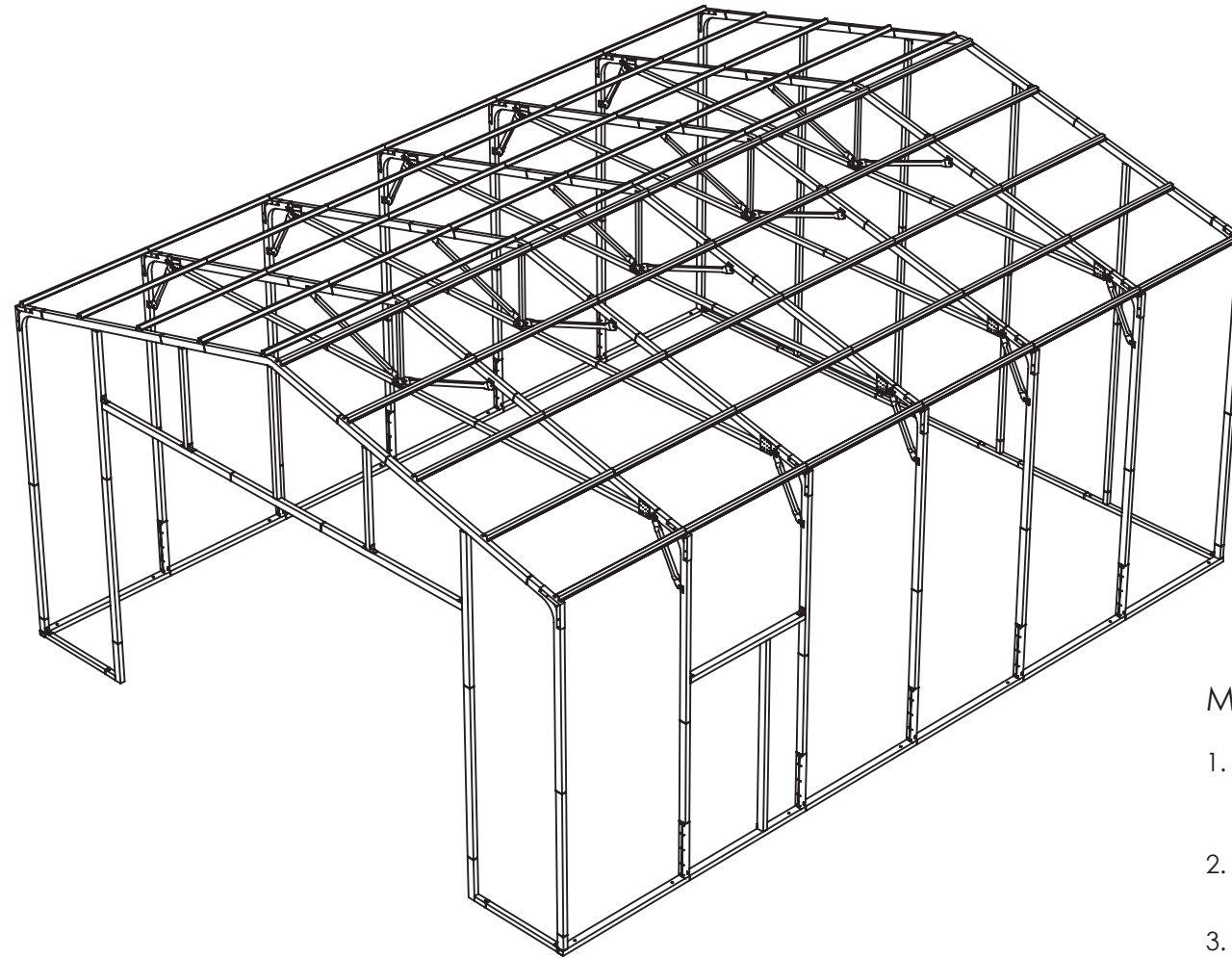
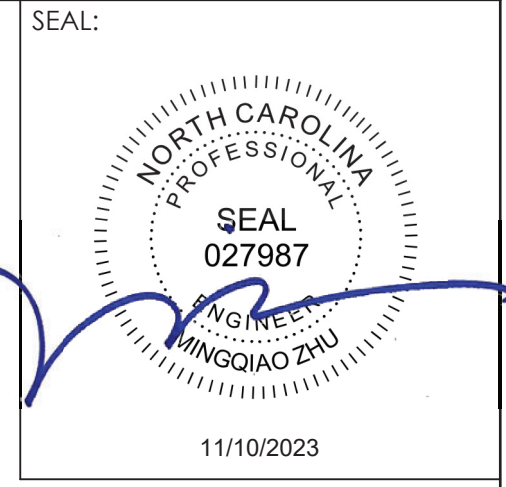


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FRANK CASTANEDA
 284 PERRY RD
 SANFORD, NC 27332
 24' X 30'-2" X 12'



DRAWING INDEX:

1. COVER PAGE
2. ELEVATIONS
3. FRONT GABLE DETAILS
4. ROOF WALL SECTION DETAILS
5. BACK GABLE DETAILS
6. SHEET METAL INSTALL DETAILS
7. BASE RAIL LAYOUT DETAILS
8. FOUNDATION DETAILS

DESIGN CRITERIA:

CODE COMPLIANCE: 2018 IBC
 OCCUPANCY GROUP: U-1
 3:12 PITCH

1. DEAD LOAD: 2 PSF
2. ROOF LIVE LOAD: 20 PSF
 GROUND SNOW LOAD: 15 PSF
3. WIND LOAD: 120 MPH, EXPOSURE (C)
 STRUCTURAL RISK CATEGORY: II
4. SEISMIC CATEGORY: C
5. ON CENTER FRAME SPACING: 5'
 ROOF HAT CHANNEL SPACING: 2'-11 3/8"
6. SHEET METAL: 29GA MULTIPURPOSE, 80KSI, STEEL
 ALLOWABLE WIND PRESSURE LOAD ON 5' CENTERS: 23 PSF
 ALLOWABLE GRAVITY LOAD ON 2'-11 3/8" CENTERS: 57.13 PSF
 PANELS ARE CLASS (A) FIRE RATED. EXTERIOR SHEETING NOT SHOWN.

EXISTING SLAB DESIGNED BY OTHERS

MATERIALS:

1. SIDE POSTS, RAFTERS, PEAKS, DOOR HEADERS, DOOR JAMBS,
 BASE RAILS, HEIGHT EXTENSIONS:
 2" X 3" 14 GA 1015 STEEL, 50 KSI
2. END WALL VERTICALS & BASE RAILS, COLLAR TIE:
 2" X 2" 15 GA 1015 STEEL, 50 KSI
3. WEB BRACES, KNEE BRACES:
 1 1/2" X 1 1/2" 18 GA 1008 STEEL, 45 KSI
4. HAT CHANNEL (ROOF PURLINS):
 18 GA, 1010 STEEL, 50 KSI
5. BRACKETS:
 BK-30, BK-60, BK-61: 14GA, 50 KSI STEEL
 BK-10, BK-20, BK-WEB-1.5SQ: 12GA, 50 KSI STEEL
 BK-BPR-24: 16GA, 50 KSI STEEL
 BK-40: 18GA, 50 KSI STEEL

STRUCTURAL DESIGN		PROJECT: VERSATUBE FRONTIER BUILDING	
T & Z Consulting Services, LLC 1428 N Shevlin Court Sewickley, PA 15143		TITLE: 24' X 30'-2" X 12' ENCLOSED	
		DWG NO: FBSQ24301205-KB24-R+FE02412116X10+BE02412-4V	DRAWN BY: A. STRICKER
		DATE: 10/5/2023	PAGE 1 OF 8

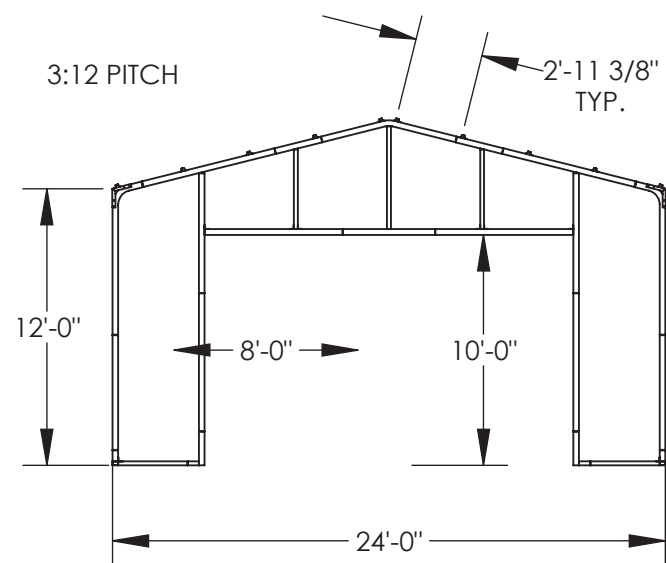
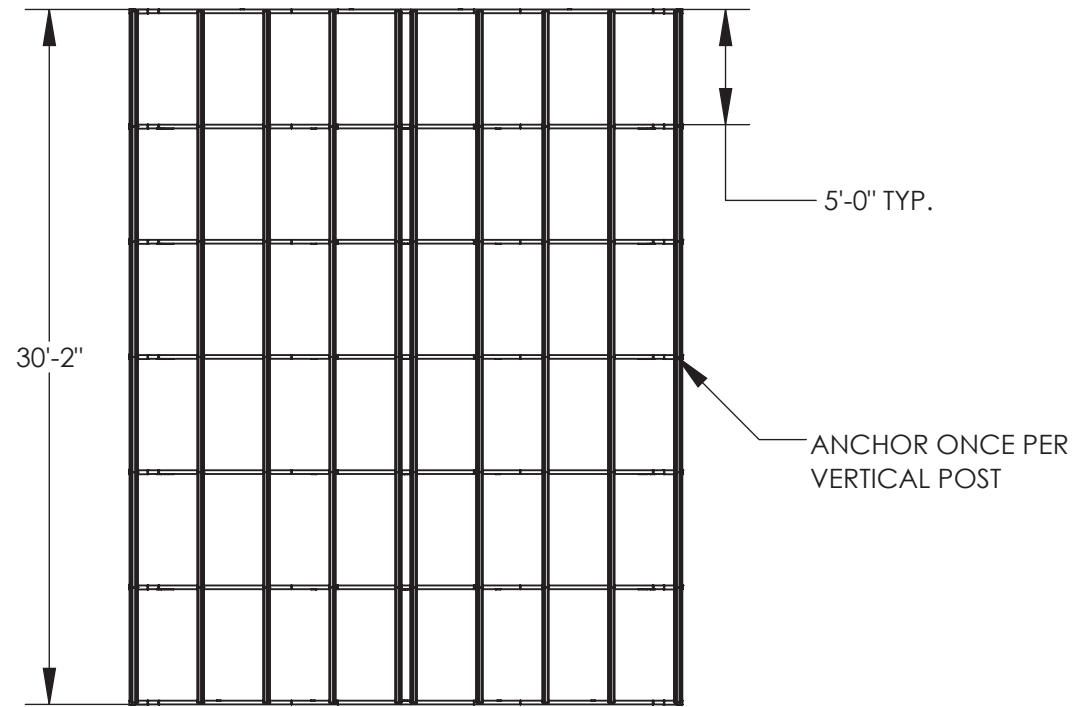
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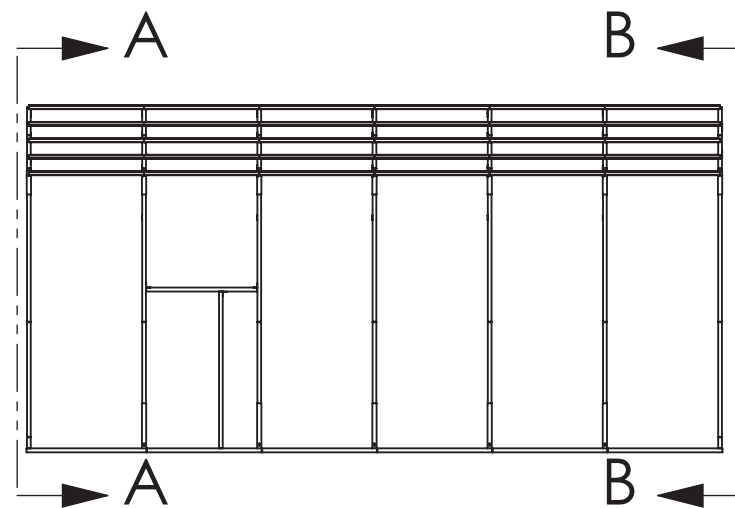
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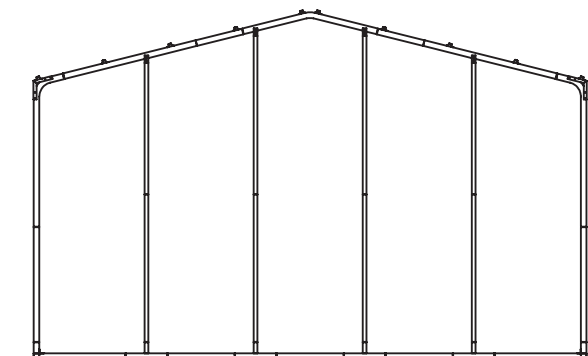
11/10/2023



SECTION A-A
 SCALE 1 : 100



- FOR WALK DOOR:
 (1) 7100-8175, 2X3X81 3/4"
 (1) 7100-5775, 2X3X57 3/4"
 (3) BK-10 ANGLE BRACKET
 (1) BK-20 FLAT BRACKET
 (12) 71-9999-C314, 3" CONCEALER SCREW
 (1) 7500-04200P2, 1 1/2X1 1/2X42"
 (2) 7500-08175P5, 1 1/2X1 1/2X81 3/4"



SECTION B-B
 SCALE 1 : 100

STRUCTURAL DESIGN

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PROJECT: VERSATUBE FRONTIER BUILDING

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DWG NO: FBSQ24301205-KB24-R+FE02412116X10+BE02412-4V

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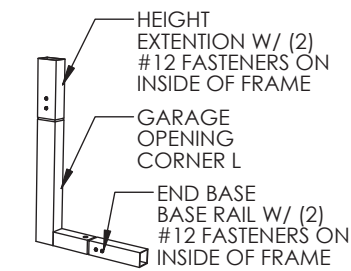
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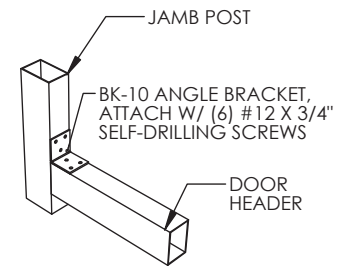
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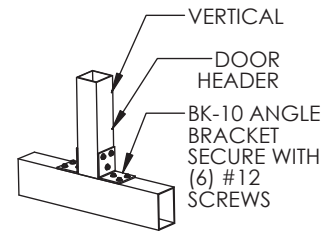
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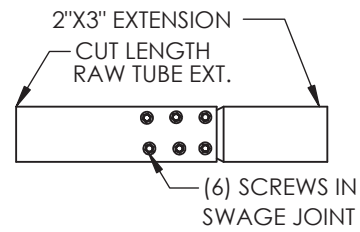
END WALL DOOR L CONNECTION



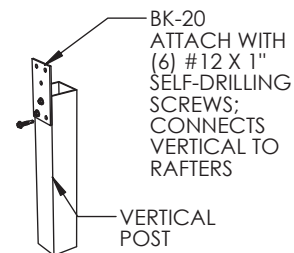
BK-10 ANGLE BRACKET, END WALL HEADER TO VERTICAL



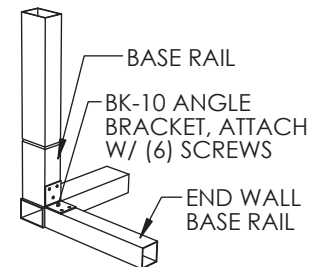
VERTICAL TO HEADER



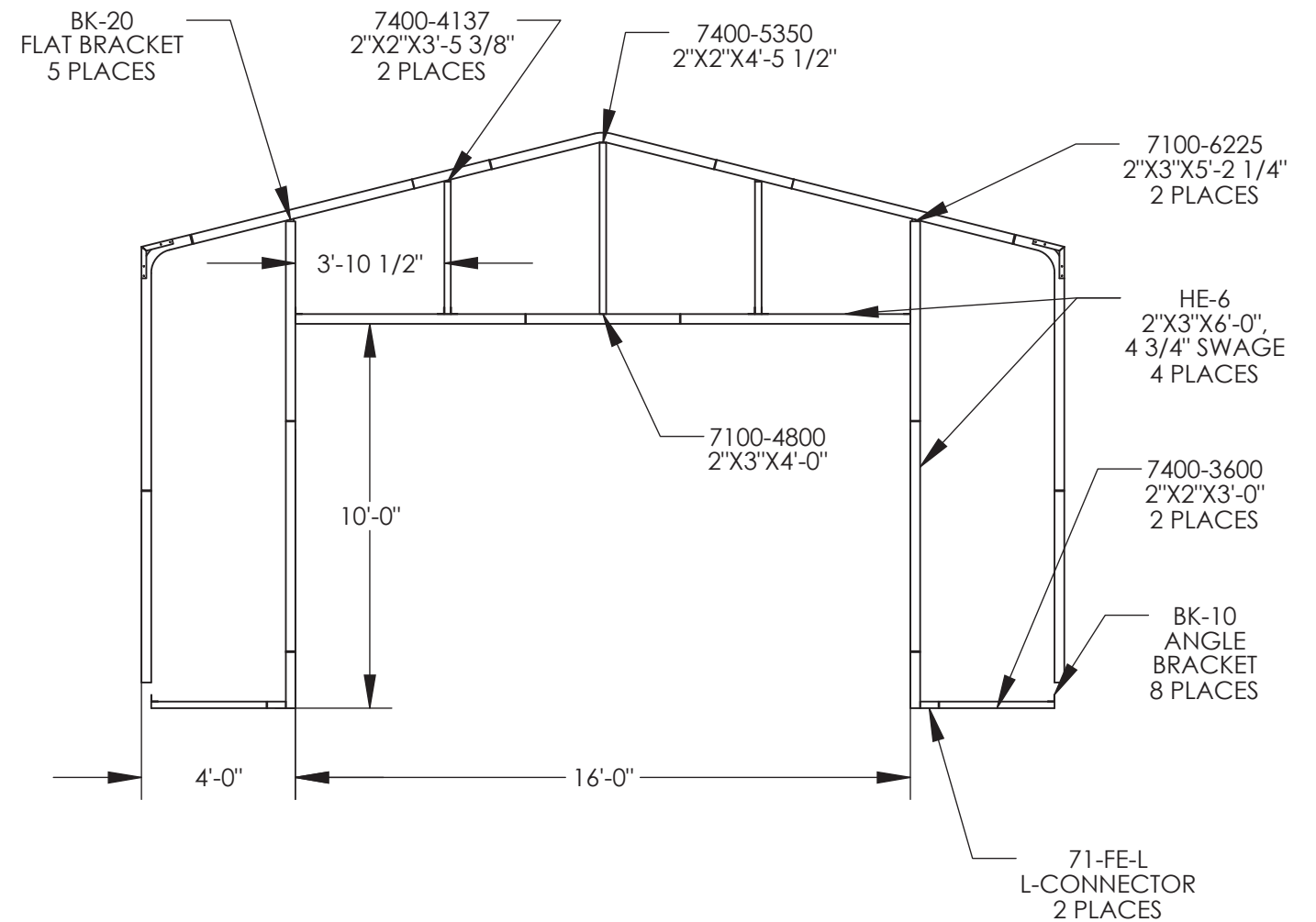
HEADER CONNECTION



FLAT BRACKET TO VERTICAL



END WALL BASE RAIL TO EAVE WALL



STRUCTURAL DESIGN

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PROJECT: VERSATUBE FRONTIER BUILDING

TITLE: 24' X 30'-2" X 12' ENCLOSED

DWG NO: FE02412116X10

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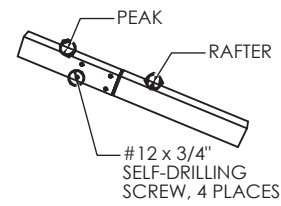
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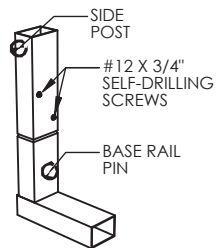
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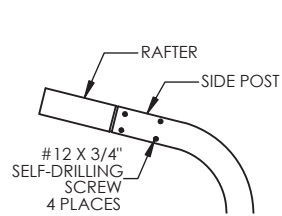
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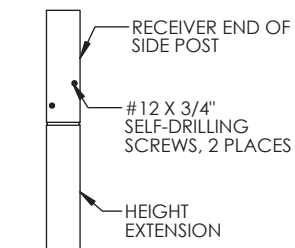
PEAK TO RAFTER



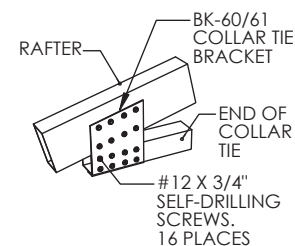
BASE RAIL TO SIDE POST



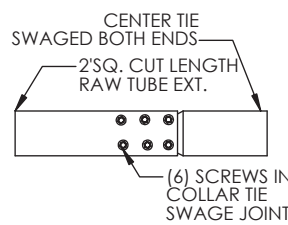
SIDE POST TO RAFTER DETAIL



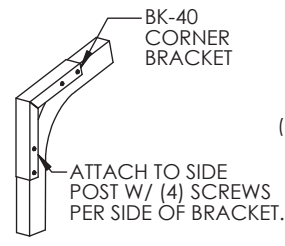
HEIGHT EXTENSION TO SIDE POST



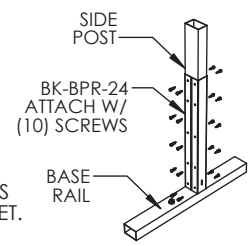
COLLAR TIE BRACKET



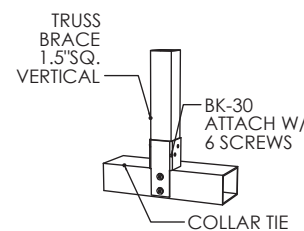
COLLAR TIE CONNECTION



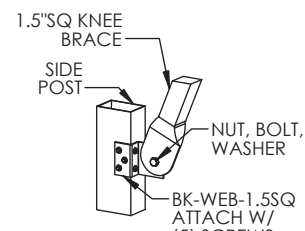
EAVE CORNER BRACKET



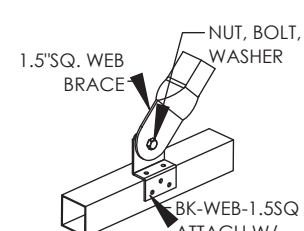
BK-BPR-24 TO SIDE POST



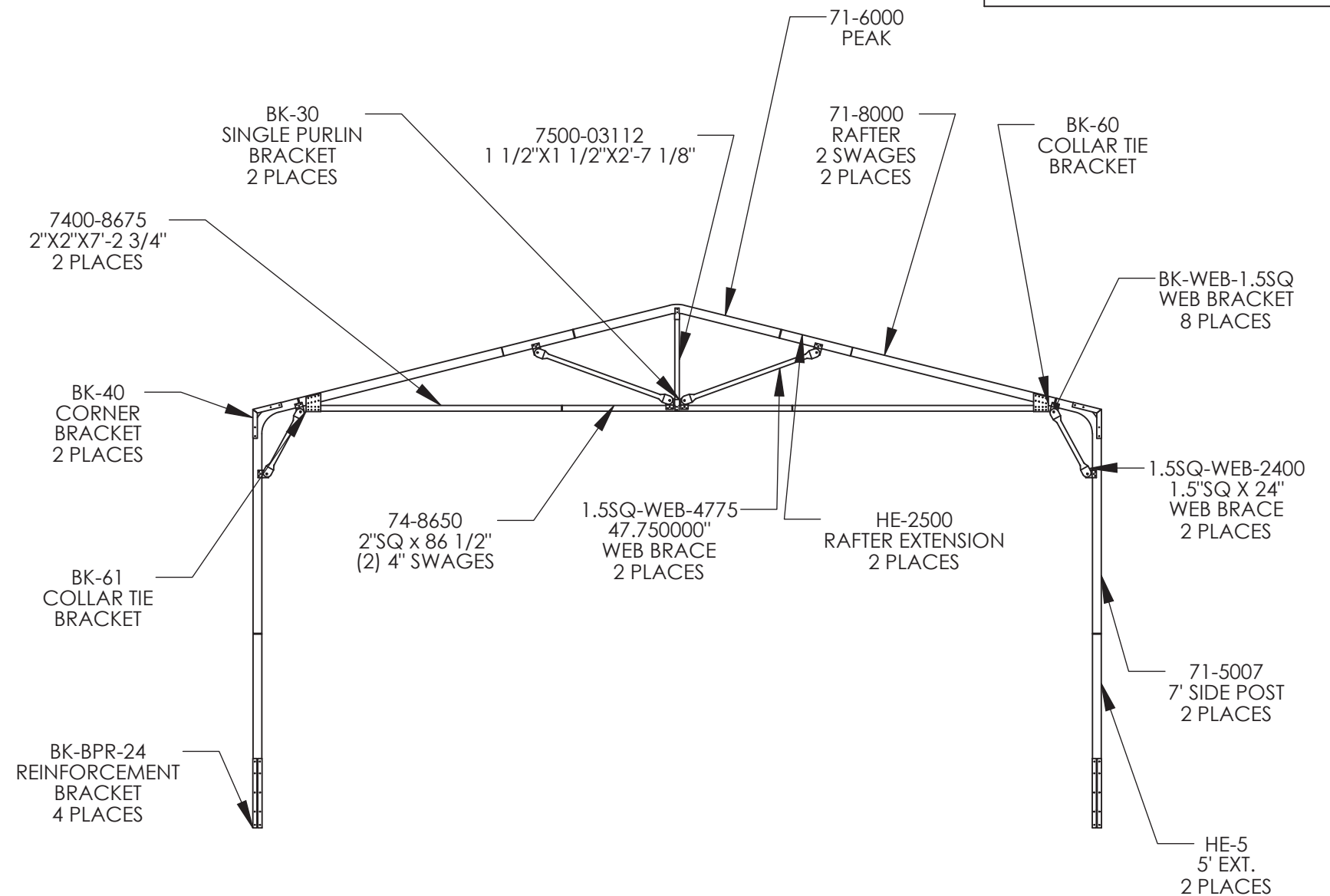
BK-30 TO COLLAR TIE



KNEE BRACE TO BRACKET



SINGLE WEB BRACE TO BRACKET



STRUCTURAL DESIGN

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PROJECT: VERSATUBE FRONTIER BUILDING

TITLE: 24' X 30'-2" X 12' ENCLOSED

DWG NO: 24X12 RWS BK40 2X3 FF QUEEN 24KB BK-BPR-24

DRAWN BY: A. STRICKER

DATE: 10/5/2023

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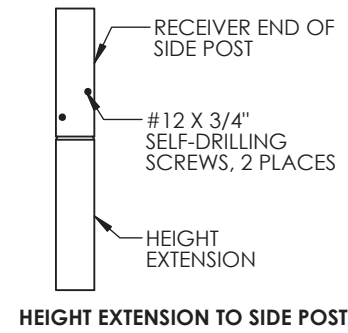
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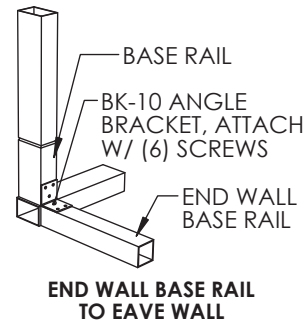
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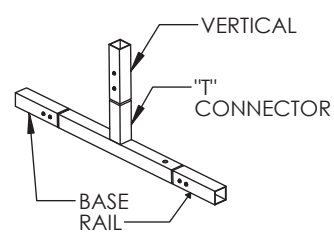
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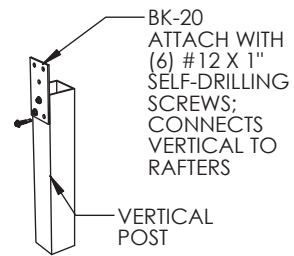
HEIGHT EXTENSION TO SIDE POST



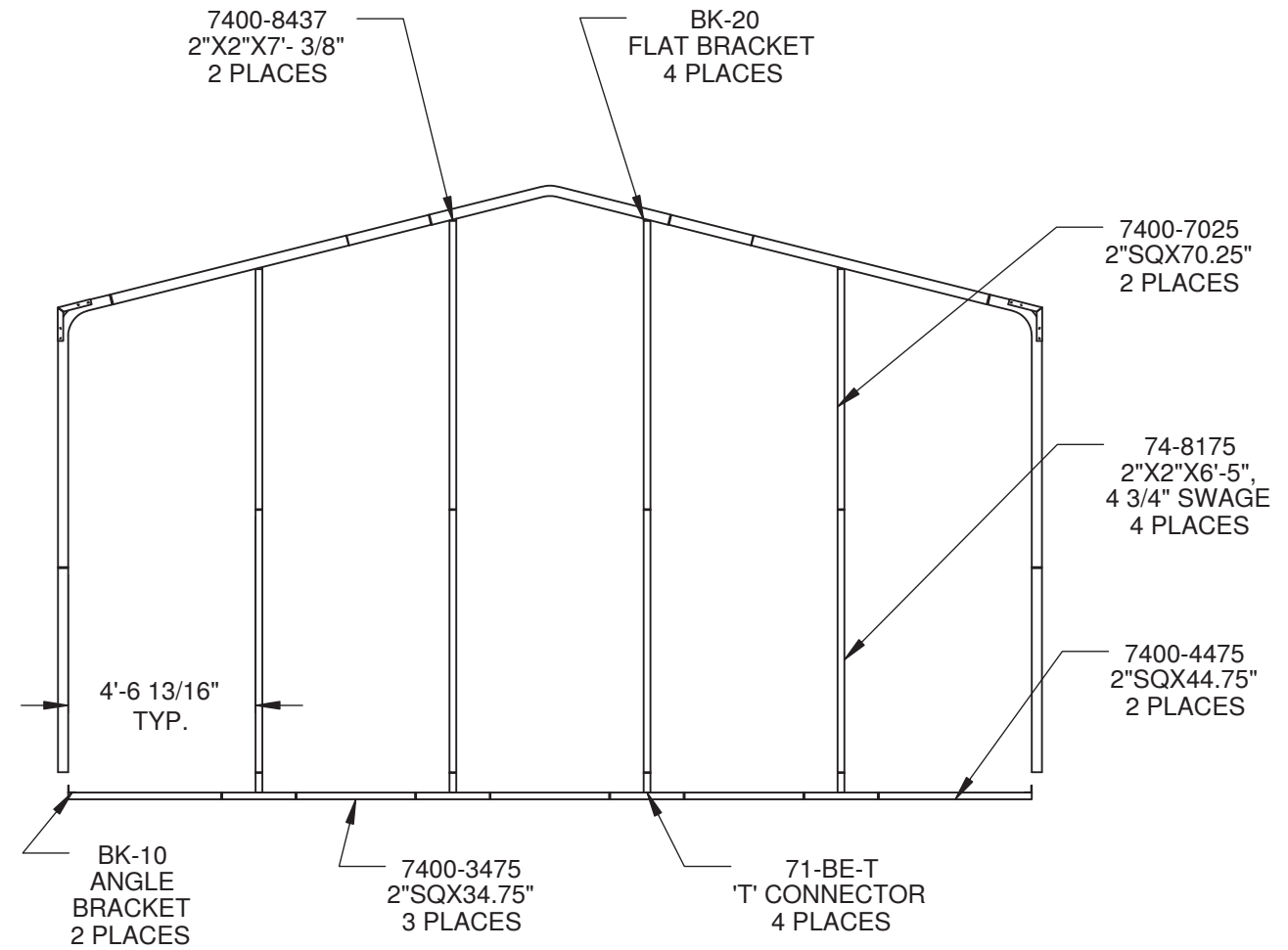
END WALL BASE RAIL TO EAVE WALL



"T" CONNECTIONS



FLAT BRACKET TO VERTICAL



STRUCTURAL DESIGN

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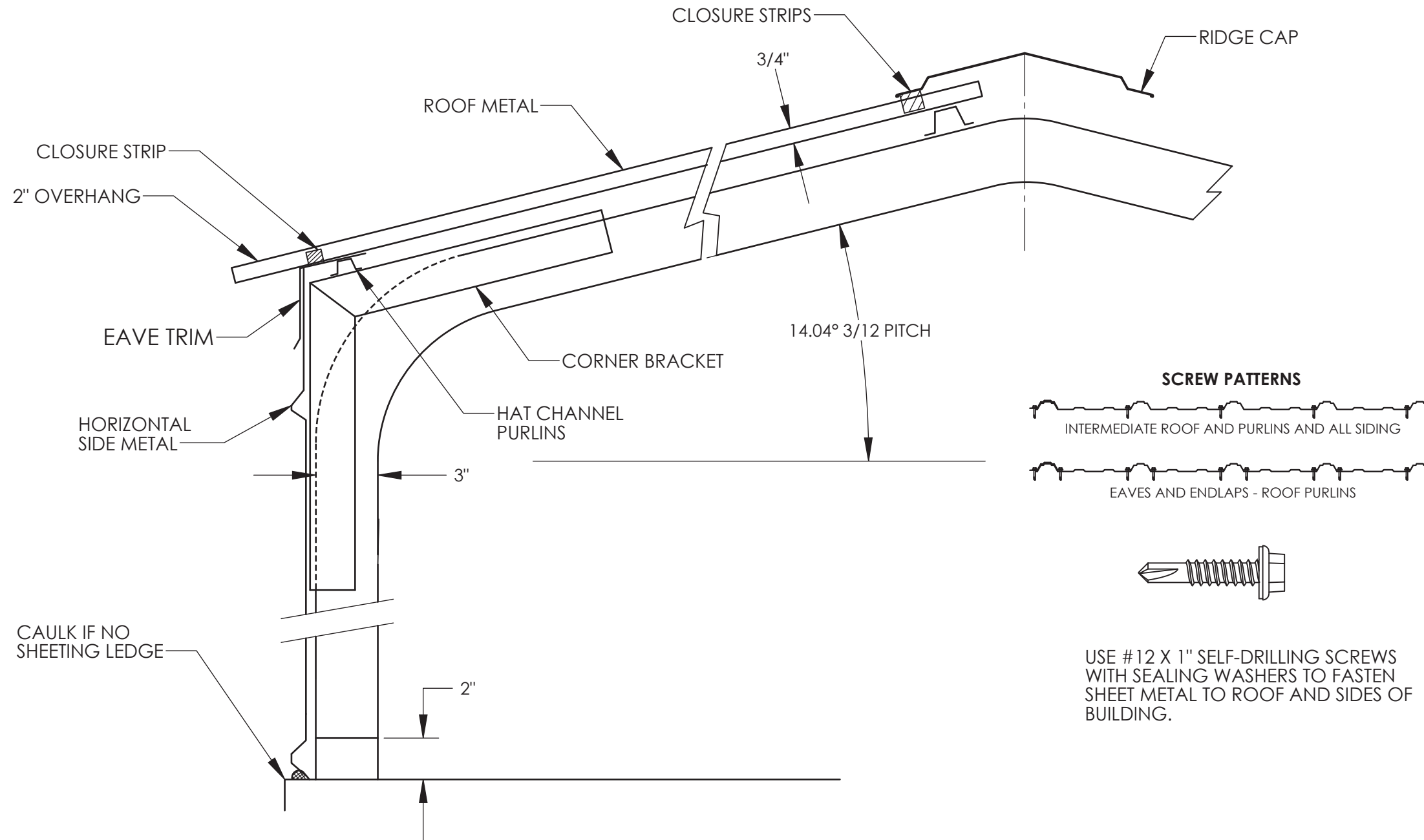
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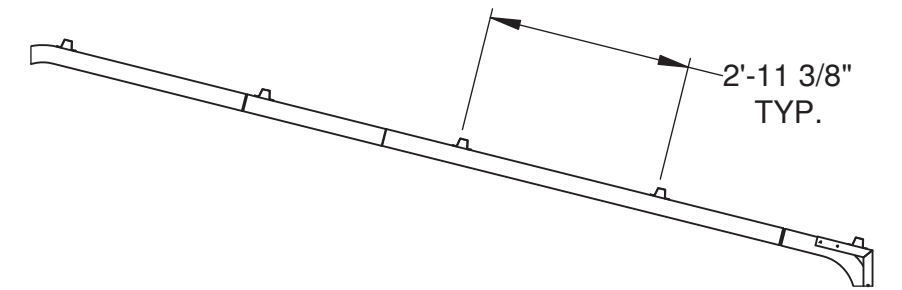
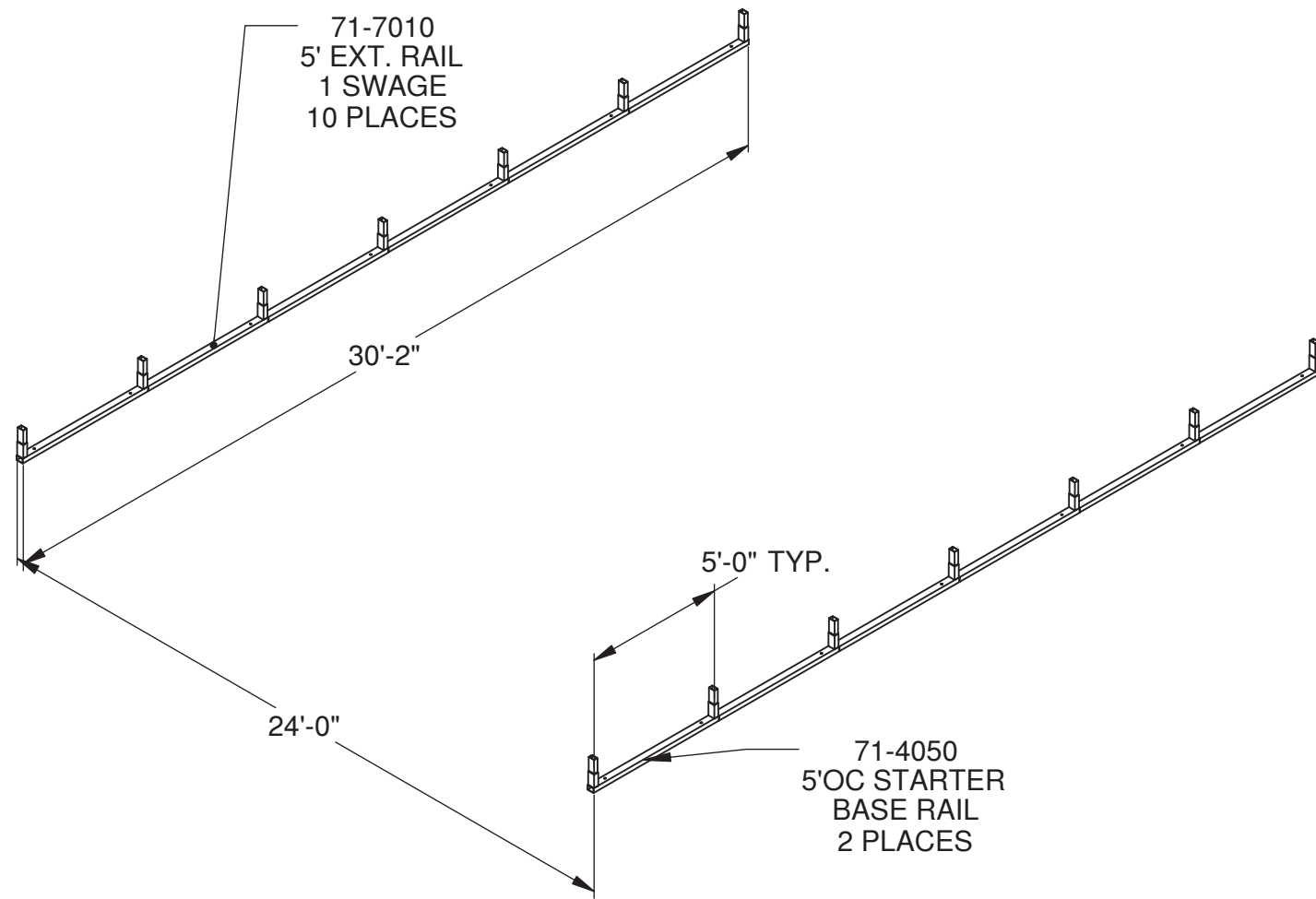
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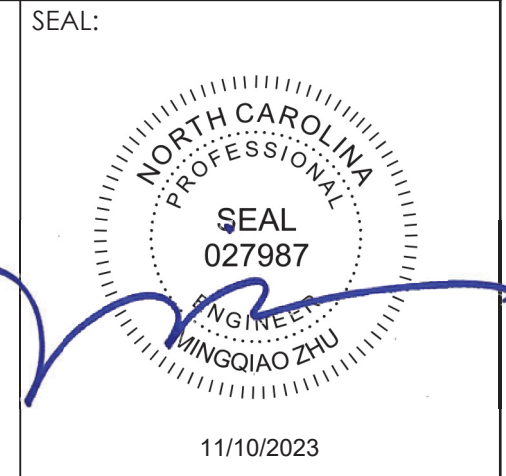
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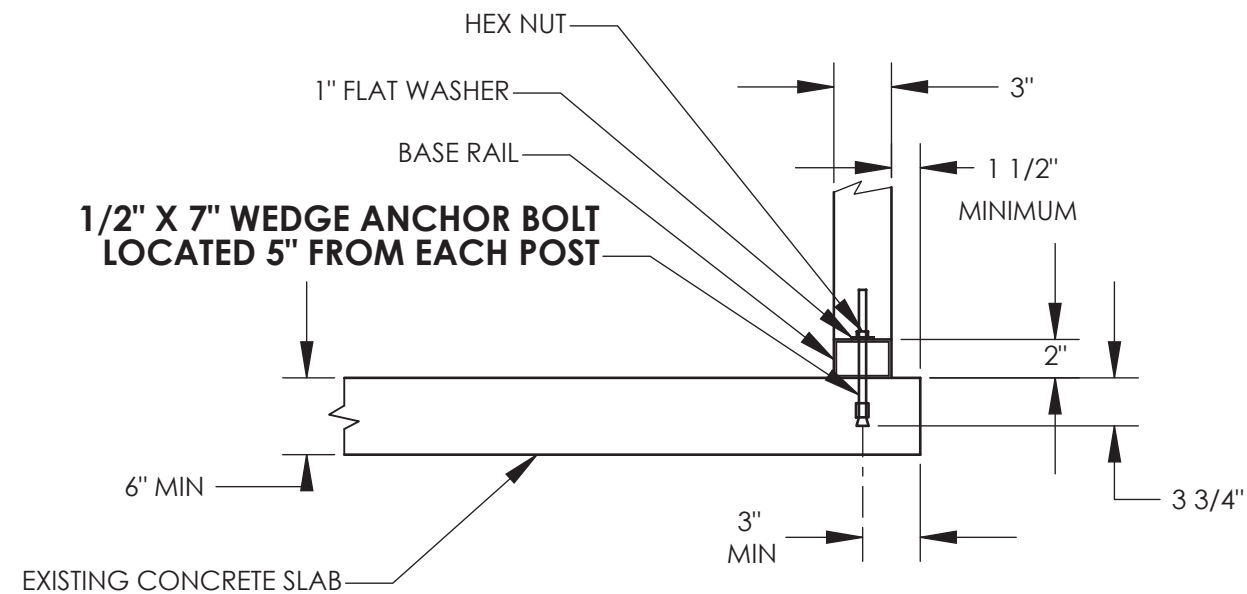
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ANCHOR HOLD DOWN FORCE 2,425 LBS.
 ES REPORT: ESR-2818

INSTALLATION:
 USING HAMMER DRILL AND A 1/2" CONCRETE DRILL BIT, DRILL A HOLE INTO THE CONCRETE 3" TO DEEP. PLACE THE FLAT WASHER ON THE BOLT AND INSTALL THE NUT UNTIL ABOUT 2 THREADS ARE EXPOSED ABOVE THE NUT. TAP THE ANCHOR THROUGH THE BASE RAIL INTO THE HOLE UNTIL THE WASHER TOUCHES THE TOP OF THE BASE RAIL. NOW, TIGHTEN THE NUT TO SET THE ANCHOR. DO NOT OVER TIGHTEN AND CRUSH THE TUBE.



NOTE ON SLAB SIZE:
 SLAB SHOULD BE AT LEAST 3" WIDER AND 3" LONGER THAN THE CARPORT FRAME.

FOUNDATION DESIGN IS BY OTHERS
 REFER TO THE FRAME DESIGN CALCULATION
 FOR THE MAXIMUM REACTIONS.

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PROJECT: VERSATUBE FRONTIER BUILDING
 TITLE: 24' X 30'-2" X 12' ENCLOSED
 DWG NO: CONCRETE ANCHOR DETAIL
 DRAWN BY: A. STRICKER DATE: 10/5/2023
 PAGE 8 OF 8