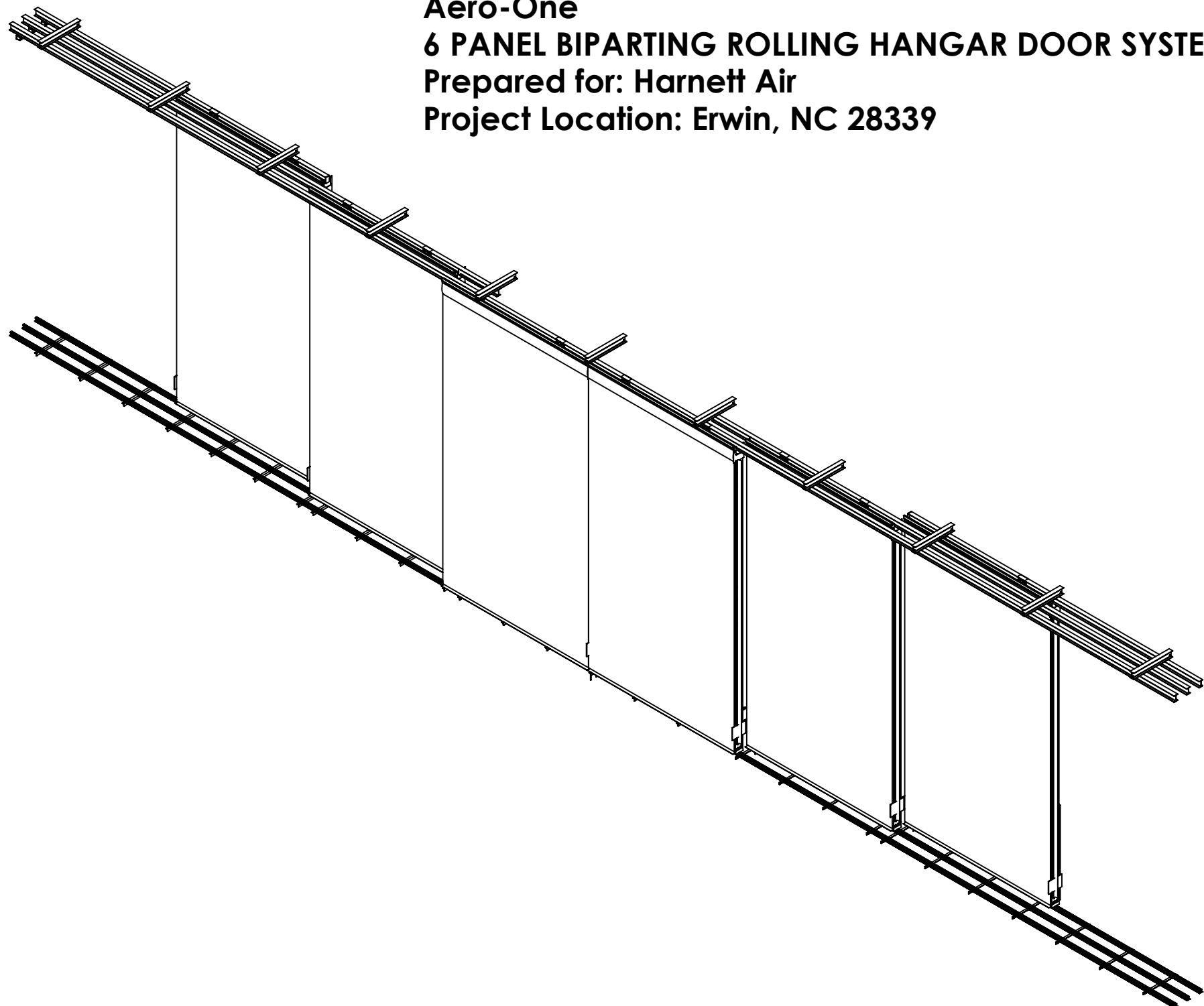


S-1	Cover Page
S-2	Specifications
S-3	Open Position
S-4	Closed Position
S-5	Rail
S-6	Top Track
S-7	Panel Cutsheet
S-8	Section View
S-9	Details 1
S-10	Details 2
S-11	Details 3
S-12	Electrical Details 1
S-13	Electrical Details 2

Aero-One
6 PANEL BIPARTING ROLLING HANGAR DOOR SYSTEM
 Prepared for: Harnett Air
 Project Location: Erwin, NC 28339



OUTSIDE LOOKING IN



Well Bilt Industries USA, LLC.
 Address: 3001 SW 67th Ave
 Ocala, FL 34474
 Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:
RO

DESIGN DWG: Ahmad S.
 CHECKED:
 MFG DWG:
 MFG. APPR:
 Q.A:
 PERMIT:
 APPROVAL DATE:
 REVISION: A
 REVISION DATE:
 Last Saved: 9/29/2023

Project :Harnett Air

Location :615 Airport Rd, Erwin, NC 28339

Customer :Robert Ostendorf

Title :Cover Page

Project No:23030

DWG. NO.
 S- 1

SPECIFICATIONS:

STRUCTURAL PANELS

Door Panel Sections Are Bolted In Connection. Depending On Manufacturer. System Will Require Grade (5), 1/2"-13 x 1-3/4" Bolts And Nuts For Assembly.

Assembly Clips For Connections.

Panels Will Be Straight And Square In All Directions To Within 1/8" On 20' As A Standard.

(ASTM A992) Structural Stiles And Girts
 (ASTM A500 Grade C) Structural Tubing
 (ASTM A572 Grade 50) Leveling Angles
 (ASTM A653 SS GR 55) Cold Form CEEs
 Panels Are Comprised of Hot-Rolled Framing Sections And Light Gauge Girts.

Color is as per signed sales order (GRAY PRIMER)

(2) Tractor Pulls Total

Pick-up Bars On Panels Allow Them To Interconnect As The Drive Panel Begins Forward Or Reverse Motion.

RAIL AND IDLE WHEELS

(12) ϕ 9" Machined Solid Steel Casters With Timken Tapered Roller Bearings. (2) Idle Casters Per Panel. Casters Include Dust Seals And Grease Fittings.

Caster Housings Are Made From Plate Steel.

Bottom Casters To Be Designed For Removal And Maintenance Without Removing The Panel.

30lb/yrd ASCE Rail With Leveling Angle Provided As A Bottom Track For 6 Panel Biparting System.

TOP TRACK AND TOP GUIDES

(12) Total WBI Telescoping Top Guide Assemblies.
 (2) Top Guides Per Panel.

W6x9 Top Track provided by WBI.
 Carrier beams and clips provided and installed by others.

WEATHER SEAL

All Weather Seals, Brushes, Sheeting Installed By Others.
 Weather seal material: EPDM

12"x1/8" EPDM Outer Vertical Weather Seal
 12"x1/16" EPDM Middle Vertical Weather Seal
 6"x1/8" EPDM Intermediate Vertical Weather Seal
 4"x1/8" EPDM Bottom Weather Seal
 18"x1/16" EPDM Top Weather Seal
 5' Runs of 1/8" Retainer Strip for Top EPDM Weather Seal
 3" Bottom Brush Sweep With Brush Holder
 3" Top Brush Sweep With Brush Holder

SHEETING

System designed while accounting for 1-1/2" exterior sheeting and 1-1/4" partial interior sheeting.
EXTERIOR SHEETING, INSULATION, SOFFIT AND TRIM PROVIDED AND INSTALLED BY OTHERS
ENSURE PANELS ARE SQUARE BEFORE APPLYING SHEETING

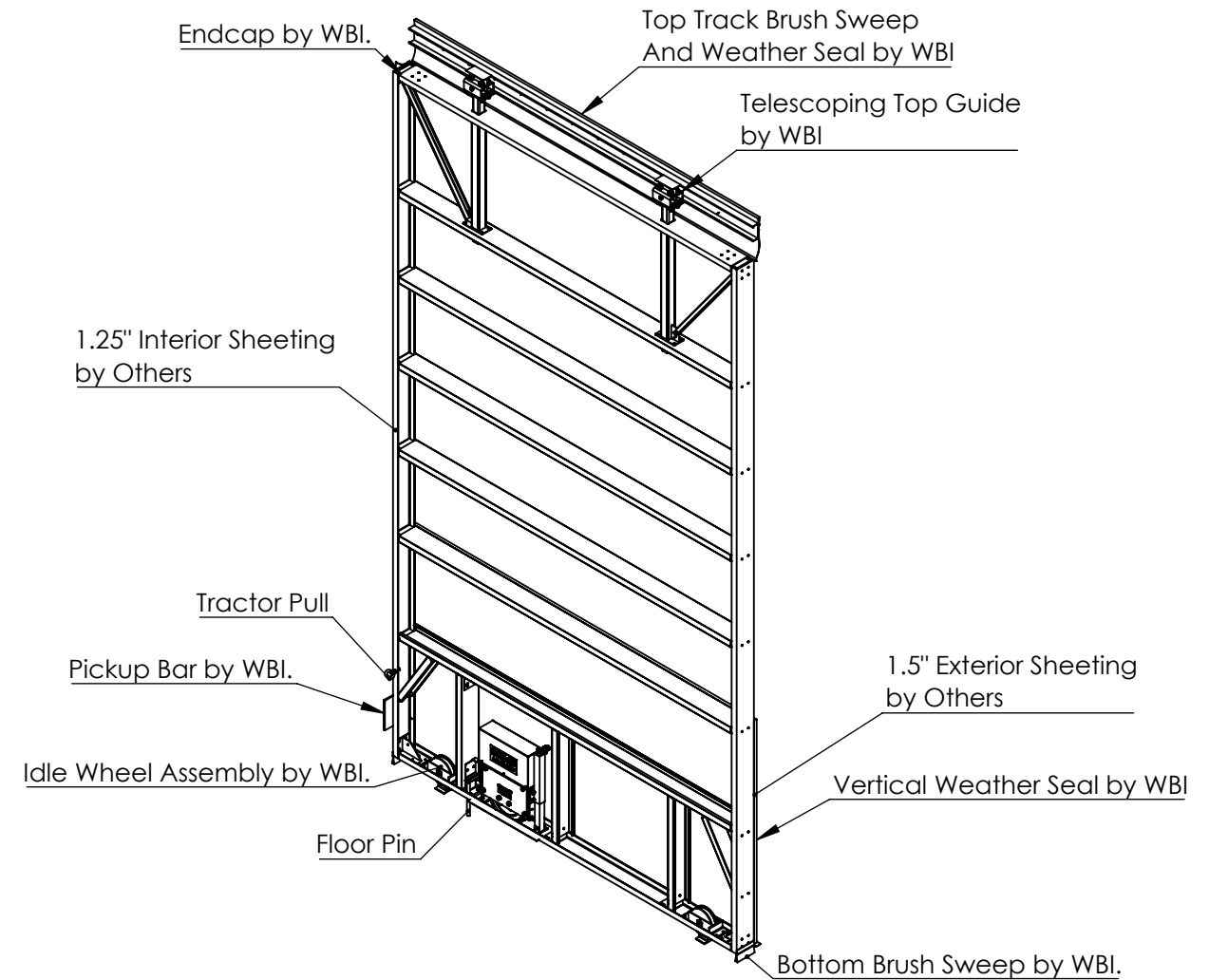
ELECTRICAL DETAILS

(2) 250 Series Operator
 208V 1 Phase Power 60Hz
 Manual
 (100') 12/4 Drape Cable

Design Criteria

Ultimate Wind Speed: 118 MPH
 Exposure Category: "C"
 Building Category: "Enclosed"
 Risk Category: II
 Ultimate Wind Pressures: +28 psf/ -31 psf

THIS STRUCTURE HAS BEEN DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY IBC-15
 NOTE: Ultimate wind pressures multiplied by 0.6 for allowable stress design, per ASCE 7-16, Section 2.4



Well Bilt Industries USA, LLC.
 Address: 3001 SW 67th Ave
 Ocala, FL 34474
 Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

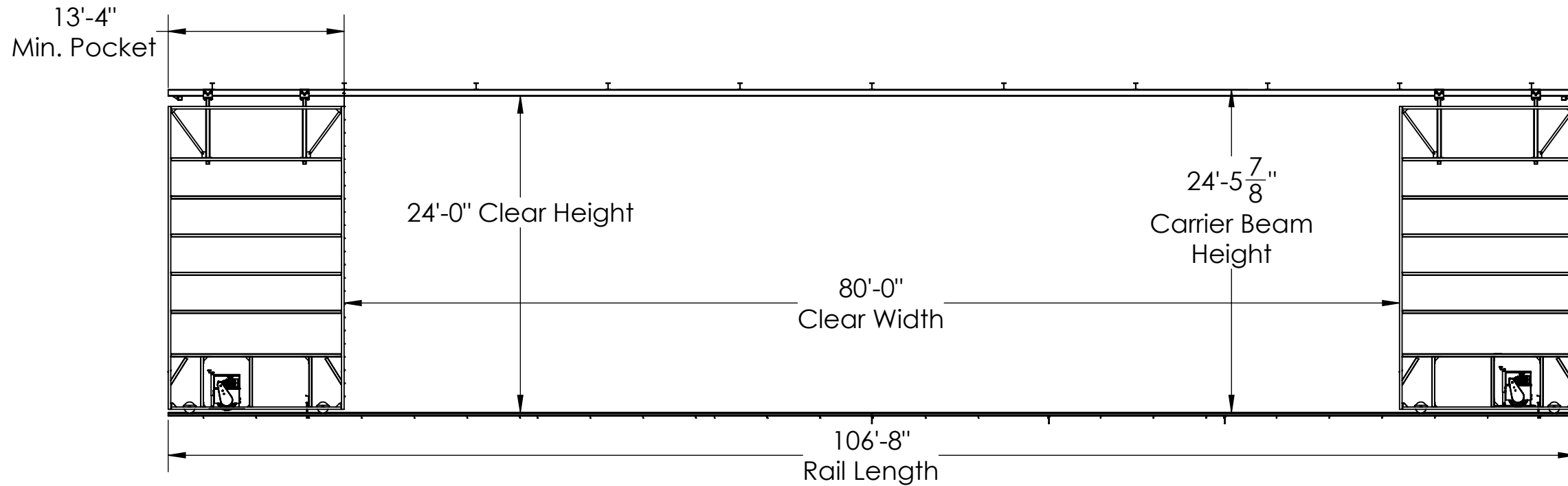
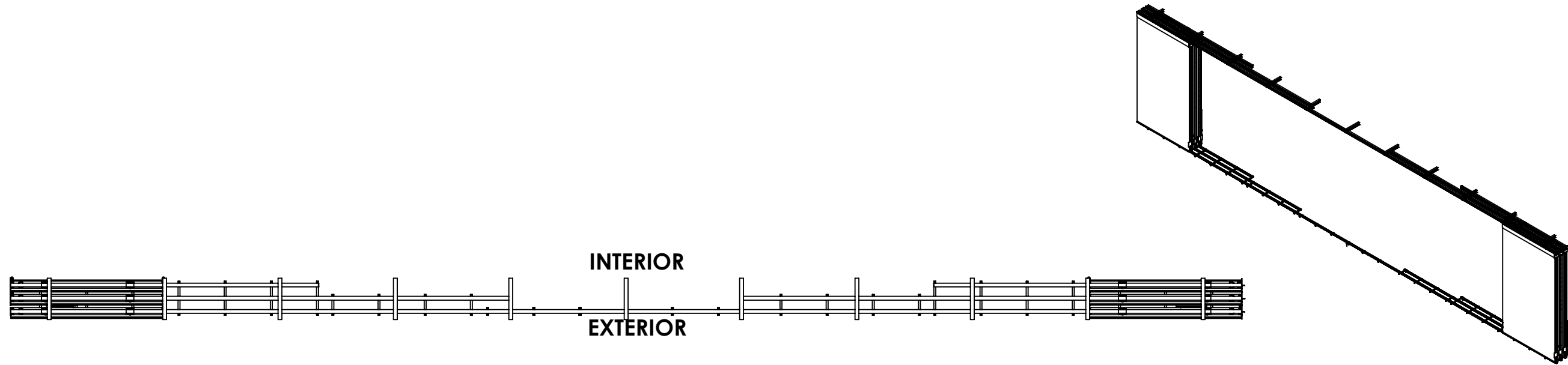
Client Signature:
RO

DESIGN DWG: Ahmad S.
 CHECKED:
 MFG DWG:
 MFG APPR:
 Q.A:
 PERMIT:
 APPROVAL DATE:
 REVISION: A
 REVISION DATE:
 Last Saved: 9/29/2023

Project :Harnett Air
 Location :615 Airport Rd, Erwin, NC 28339
 Customer :Robert Ostendorf
 Title :Specifications
 Project No:23030

DWG. NO.
 S- 2

OPEN POSITION



Outside Looking In

WELLBILT

HANGAR DOORS

Well Bilt Industries USA, LLC.
 Address: 3001 SW 67th Ave
 Ocala, FL 34474
 Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

RO

DESIGN DWG: Ahmad S.
 CHECKED:
 MFG DWG:
 MFG APPR:
 Q.A:
 PERMIT:
 APPROVAL DATE:
 REVISION: A
 REVISION DATE:
 Last Saved: 9/29/2023

Project :Harnett Air

Location :615 Airport Rd, Erwin, NC 28339

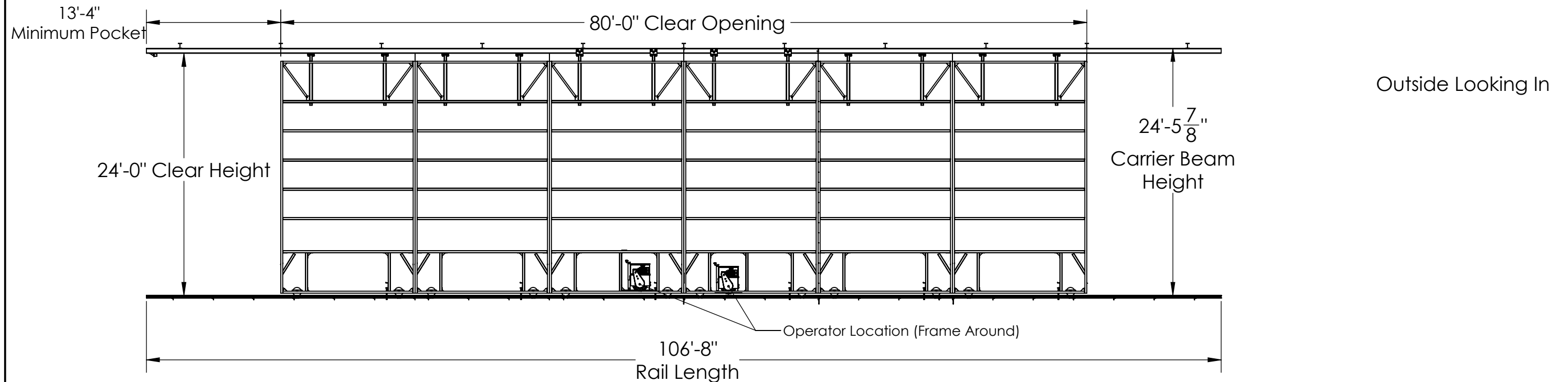
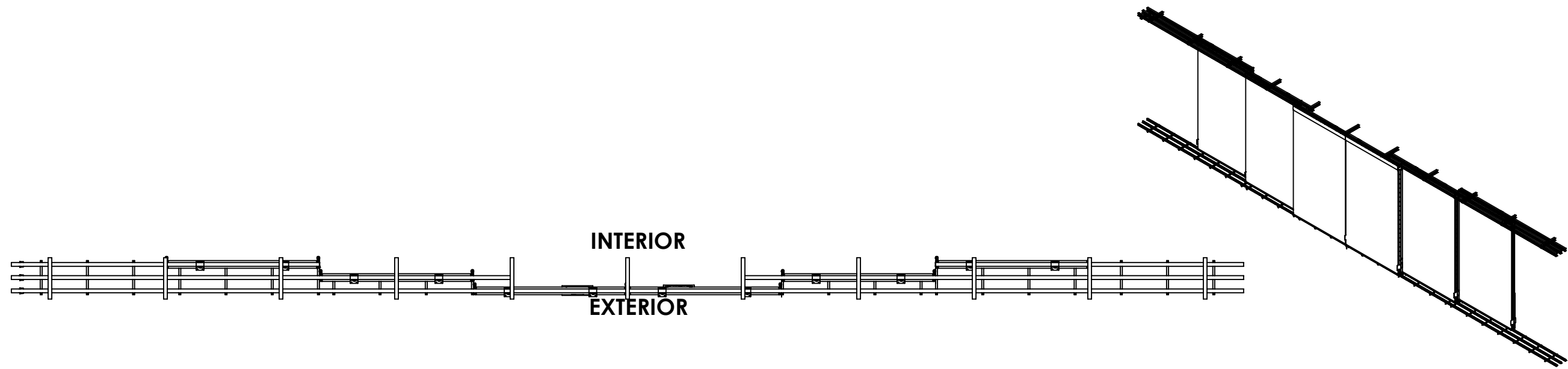
Customer :Robert Ostendorf

Title :Open Position

Project No:23030

DWG. NO.
S- 3

Closed Position



Well Bilt Industries USA, LLC.
 Address: 3001 SW 67th Ave
 Ocala, FL 34474
 Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

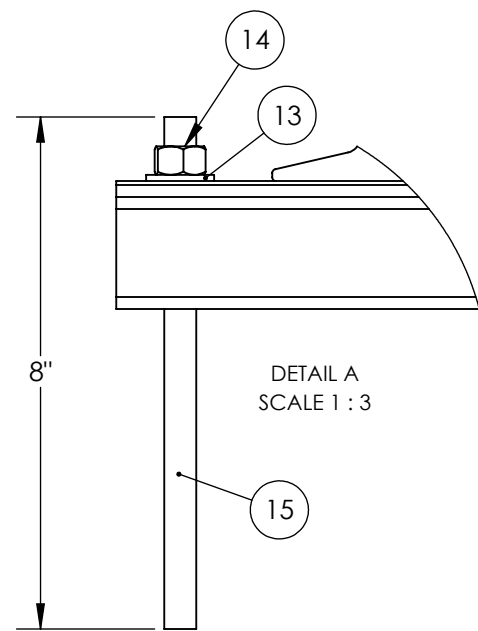
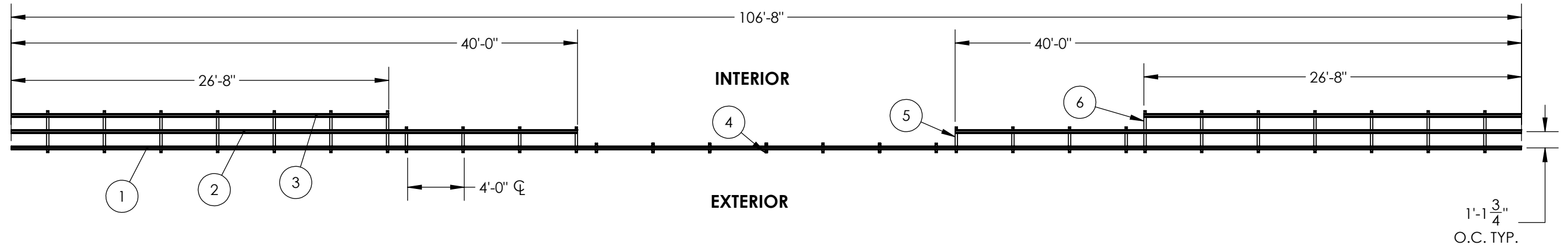
P.E Approval:

Client Signature:
RO
 DESIGN DWG: Ahmad S.
 CHECKED:
 MFG DWG:
 MFG. APPR:
 Q.A:
 PERMIT:
 APPROVAL DATE:
 REVISION: A
 REVISION DATE:
 Last Saved: 9/29/2023

Project :Harnett Air	DWG. NO. S- 4
Location :615 Airport Rd, Erwin, NC 28339	
Customer :Robert Ostendorf	
Title :Closed Position	
Project No:23030	

ITEM NO.	QTY.	DESCRIPTION	LENGTH
1	1	30 LBS/ YARD ASCE RAIL	106'-8"
2	2	30 LBS/ YARD ASCE RAIL	40'
3	2	30 LBS/ YARD ASCE RAIL	26'-8"
4	16	L2x2x0.25	8"
5	8	L2x2x0.25	1'-9 3/4"
6	14	L2x2x0.25	2'-11 1/2"

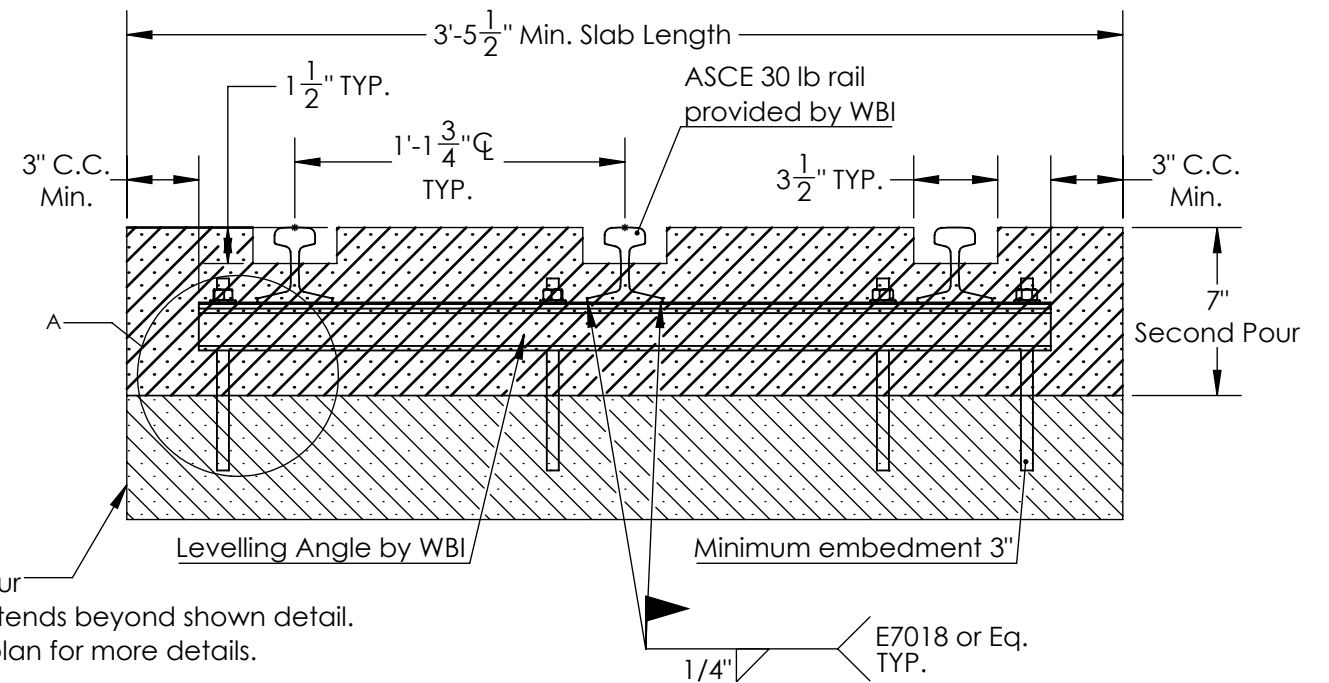
ITEM NO.	PART NUMBER	DESCRIPTION	Rail /QTY.
13	HDWSA08	1/2" Flat Washer	152
14	HDWHN08	1/2" -13 Hex Nut	152
15	MPAT0808	1/2-13 Threaded Rod, Plain, 8" Long	76



Concrete Contractor To Ensure Finish Floor Flush With Rail And Level Throughout Opening.

WBI not responsible for design of concrete foundation.

First Concrete Pour
NOTE: Footing extends beyond shown detail. See foundation plan for more details.



WELLBILT

HANGAR DOORS

Well Bilt Industries USA, LLC.
Address: 3001 SW 67th Ave
Ocala, FL 34474
Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:
RO

DESIGN DWG: Ahmad S.
CHECKED:
MFG DWG:
MFG APPR:
Q.A:
PERMIT:
APPROVAL DATE:
REVISION: A
REVISION DATE:
Last Saved: 9/29/2023

Project :Harnett Air

Location :615 Airport Rd, Erwin, NC 28339

Customer :Robert Ostendorf

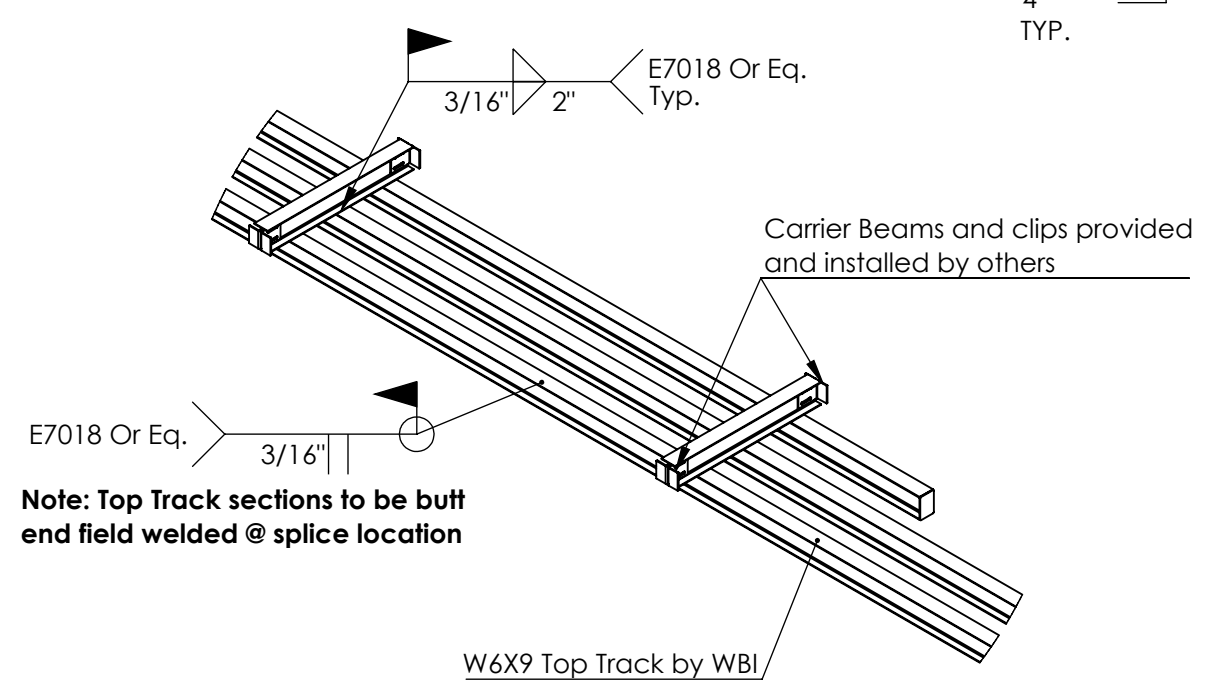
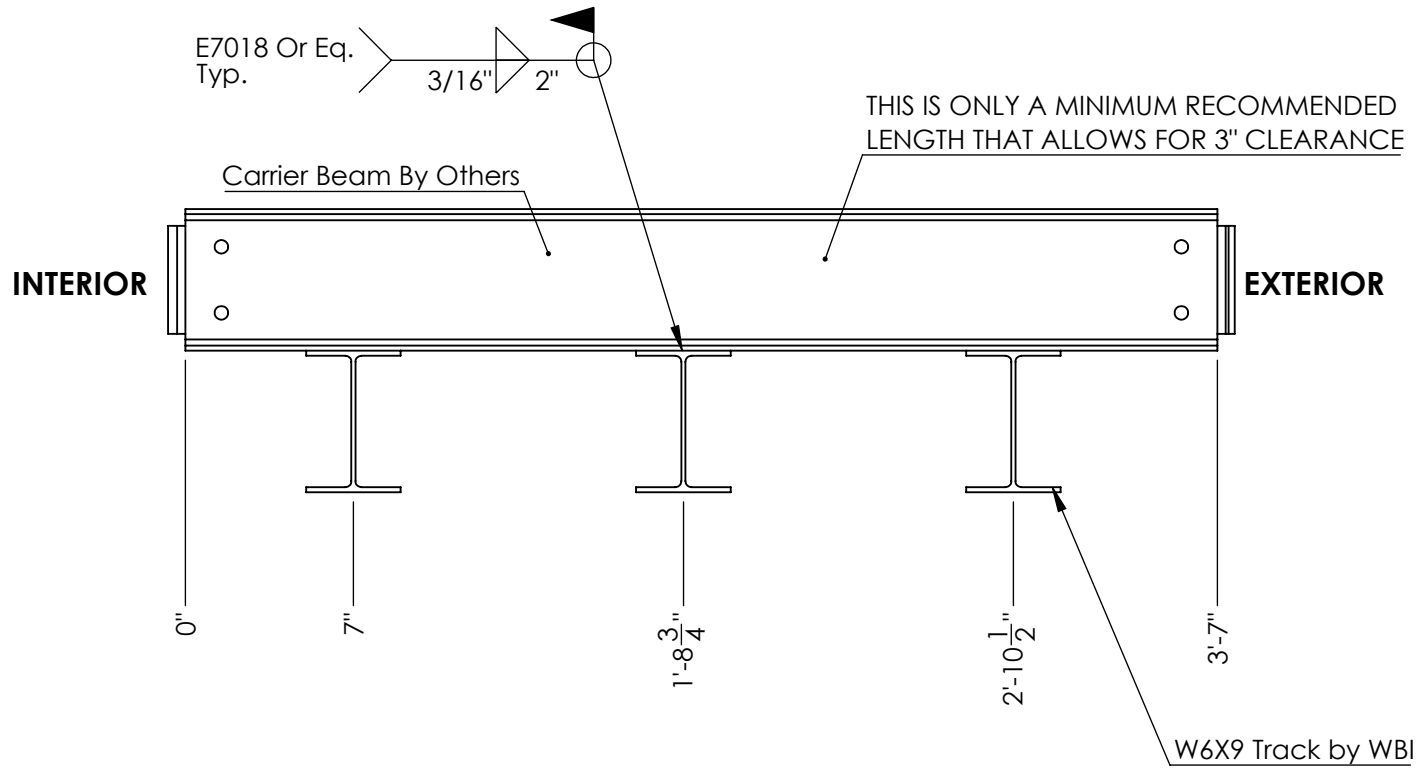
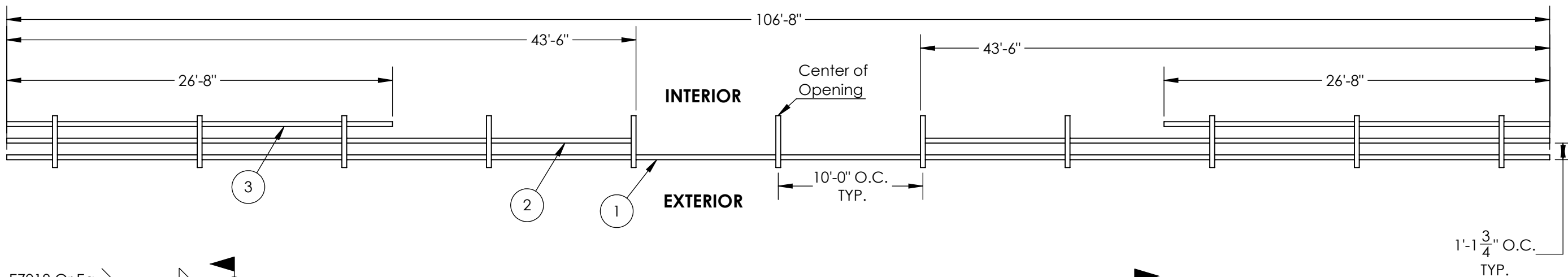
Title :Rail

Project No:23030

DWG. NO.
S- 5

ITEM NO.	QTY.	DESCRIPTION	LENGTH
1	1	W6x9	106'-8"
2	2	W6x9	43'-6"
3	2	W6x9	26'-8"

Estimated Weight of Top Track : 2,275 lbs



Note: Top Track sections to be butt end field welded @ splice location



Well Bilt Industries USA, LLC.
Address: 3001 SW 67th Ave
Ocala, FL 34474
Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:
RO

DESIGN DWG: Ahmad S.
CHECKED:
MFG DWG:
MFG APPR:
Q.A:
PERMIT:
APPROVAL DATE:
REVISION: A
REVISION DATE:
Last Saved: 9/29/2023

Project :Harnett Air
Location :615 Airport Rd, Erwin, NC 28339
Customer :Robert Ostendorf
Title :Top Track
Project No:23030
DWG. NO. S- 6

ITEM NO.	QTY.	DESCRIPTION	LENGTH
1	2	C8x13.75	22'-11 13/16"
2	1	C8x11.5	12'-10 1/2"
3	1	C8x11.5	12'-10 1/2"
4	6	8x2.5x14 Gauge Cee	12'-10 1/2"
5	1	8x2.5x14 Gauge Cee	3'-9 1/2"
6	2	8x2.5x14 Gauge Cee	3'-9 1/2"
7	2	6x2.5x16 Gauge Cee	2'-3 9/16"
8	2	L2x2x0.25	4'-3 1/2"
9	2	TS3.5x3.5x0.1875	3'-11"

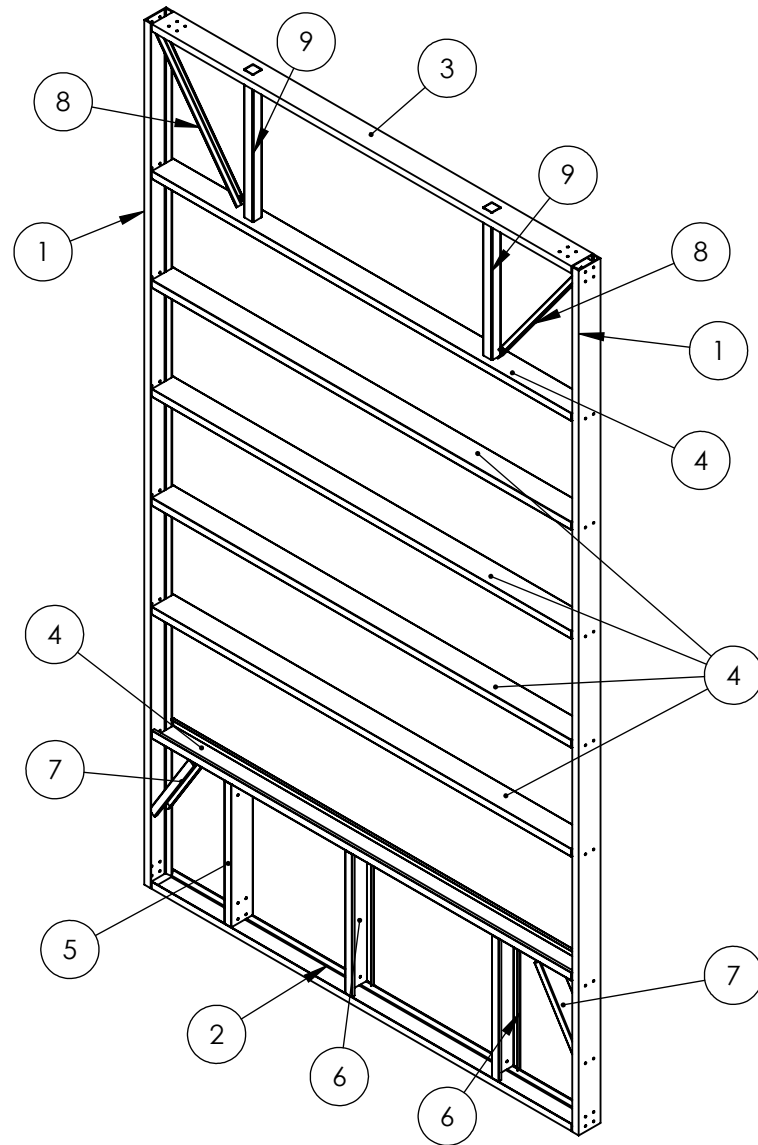
Telescoping Guide Tubes Not Shown.

Structural Steel Only Is Shown. Bracing Gussets And Mounting Pads Are Not Shown.

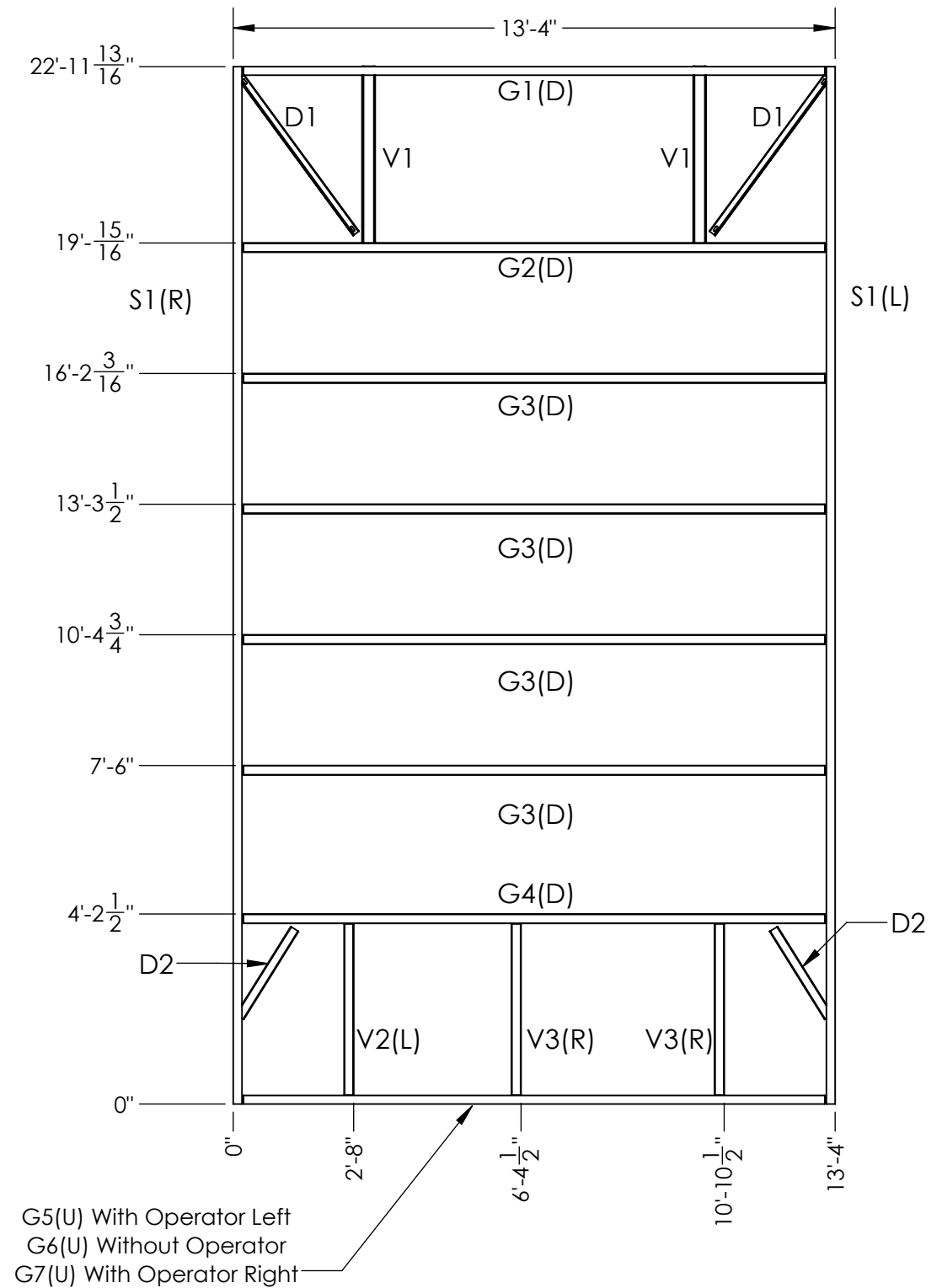
FLANGE NOTES:

(U): Flange Up
(D): Flange Down
(L): Flange Left
(R): Flange Right

**QTY: 4 without operator
2 with operator**



INSIDE LOOKING OUT



PANEL RIDES 2-3/4" A.F.F.



Well Bilt Industries USA, LLC.
Address: 3001 SW 67th Ave
Ocala, FL 34474
Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

RO

DESIGN DWG: Ahmad S.

CHECKED:

MFG DWG:

MFG APPR:

Q.A:

PERMIT:

APPROVAL DATE:

REVISION: A

REVISION DATE:

Last Saved: 9/29/2023

Project :Harnett Air

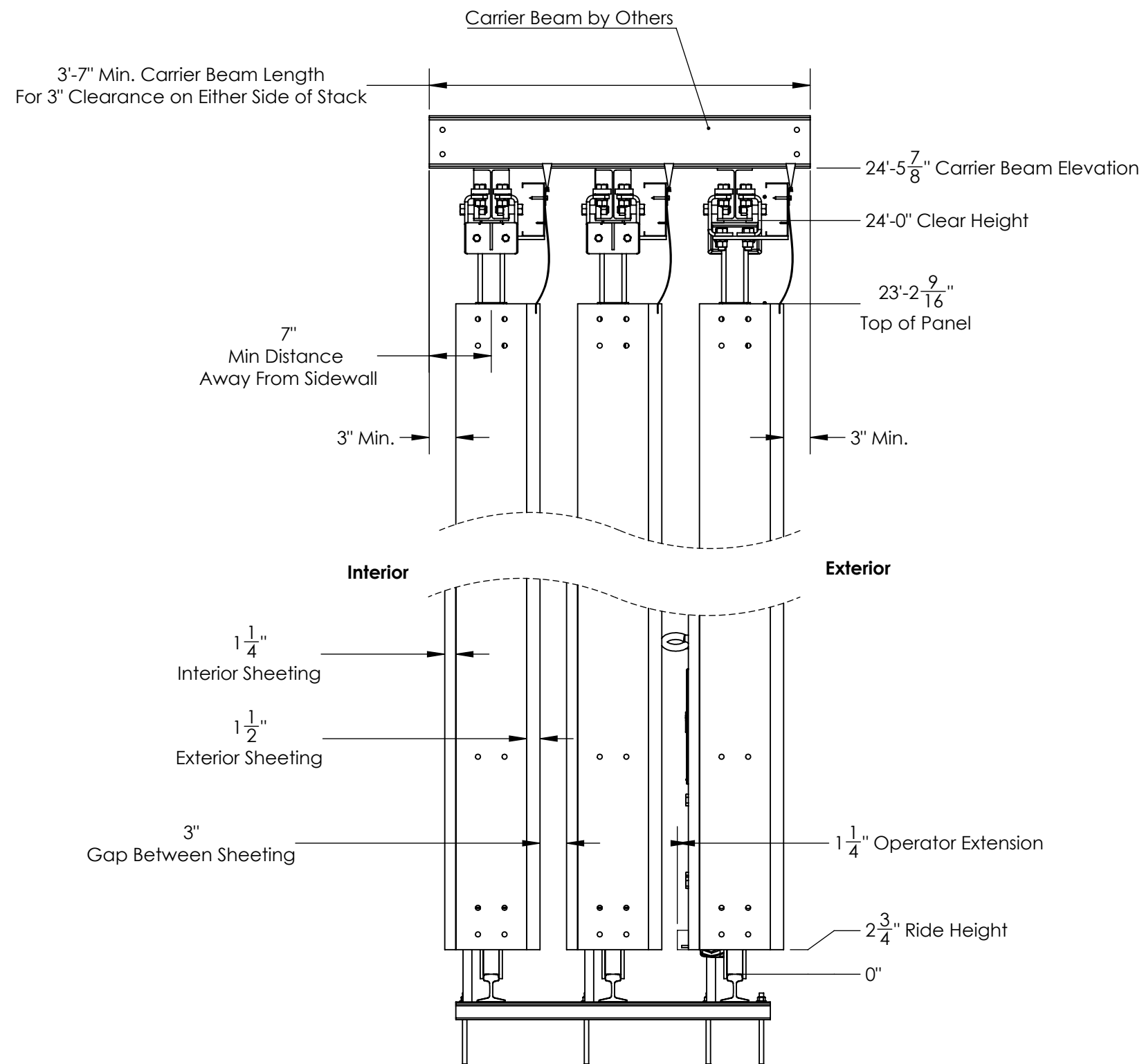
Location :615 Airport Rd, Erwin, NC 28339

Customer :Robert Ostendorf

Title :Panel Cutsheet

Project No:23030

DWG. NO.
S- 7



SYSTEM DEFLECTION TOLERANCES

3" Upward Deflection
6" Downward Deflection



Well Bilt Industries USA, LLC.
Address: 3001 SW 67th Ave
Ocala, FL 34474
Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:
RO

DESIGN DWG: Ahmad S.
CHECKED:
MFG DWG:
MFG APPR:
Q.A:
PERMIT:
APPROVAL DATE:
REVISION: A
REVISION DATE:
Last Saved: 9/29/2023

Project :Harnett Air

Location :615 Airport Rd, Erwin, NC 28339

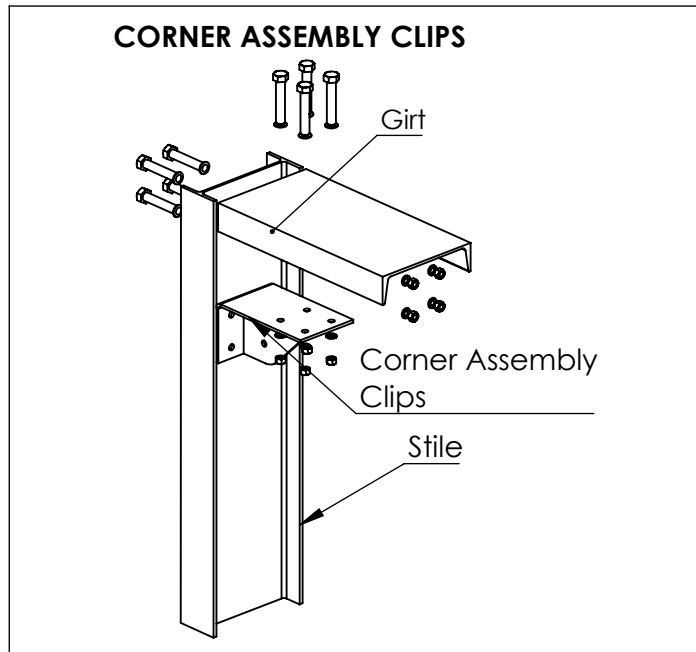
Customer :Robert Ostendorf

Title :Section View

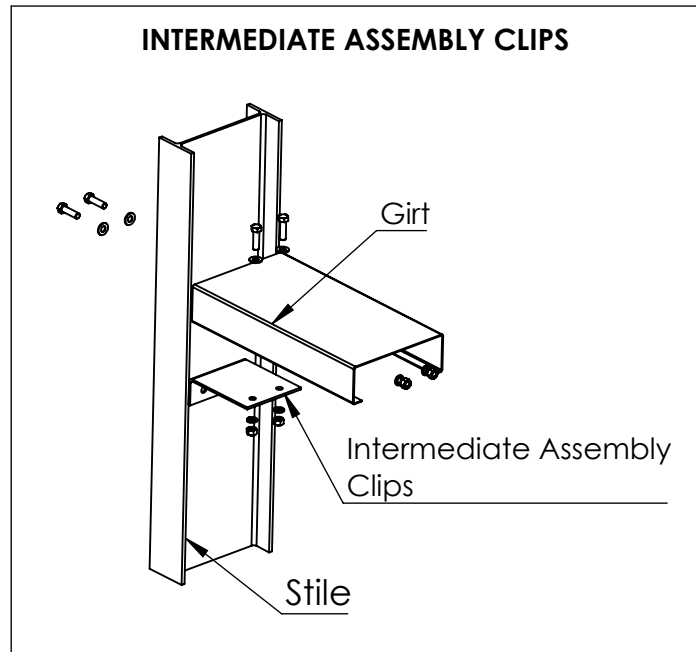
Project No:23030

DWG. NO.
S- 8

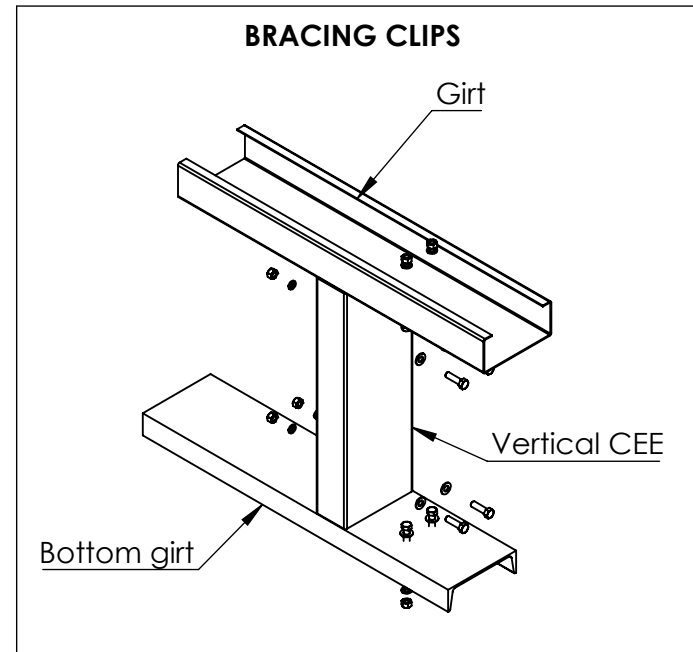
All clips and casters shown use 1/2" Grade 5 Bolts, Nuts, SAE Washers and Lock Washers



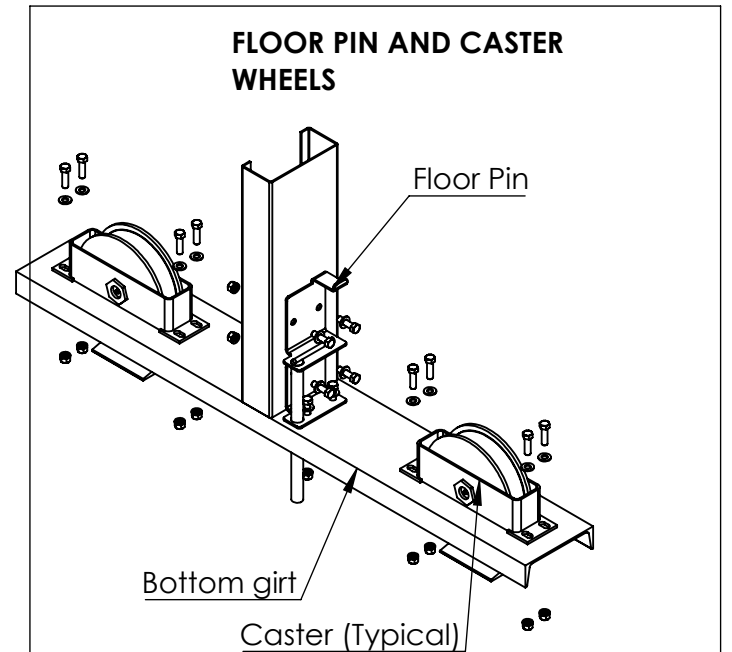
DETAIL 1



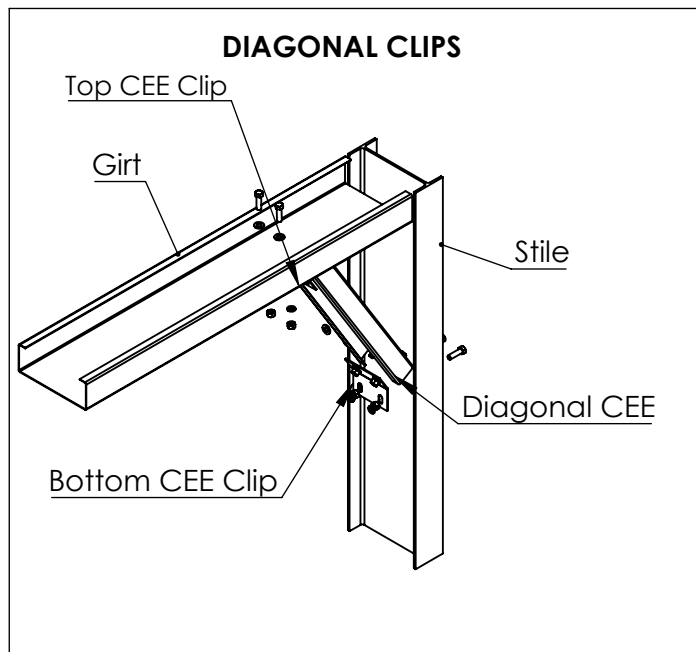
DETAIL 2



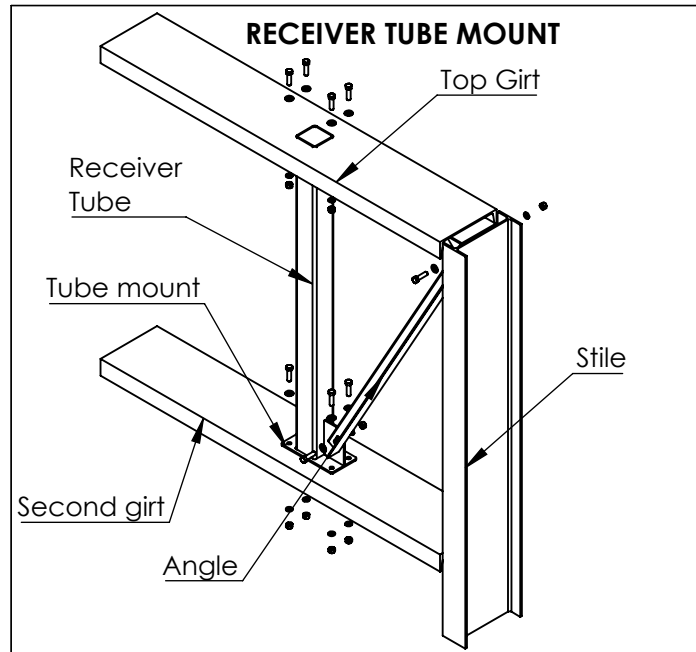
DETAIL 3



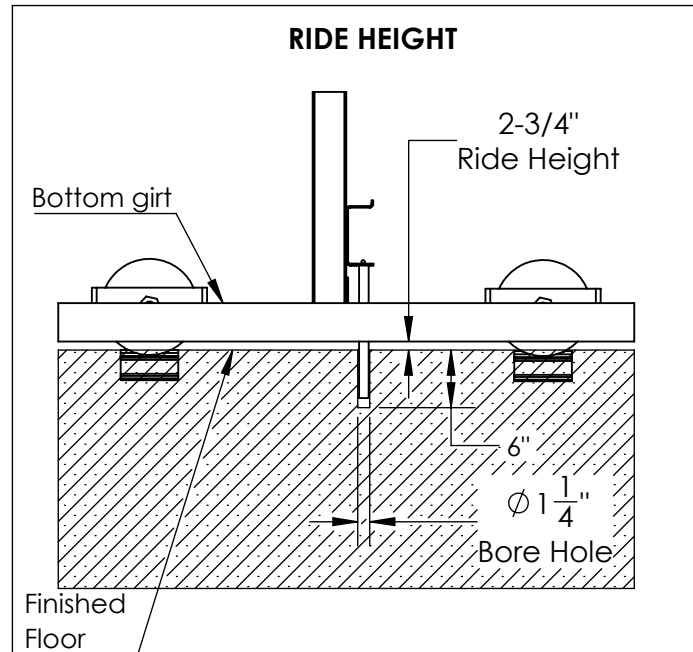
DETAIL 4



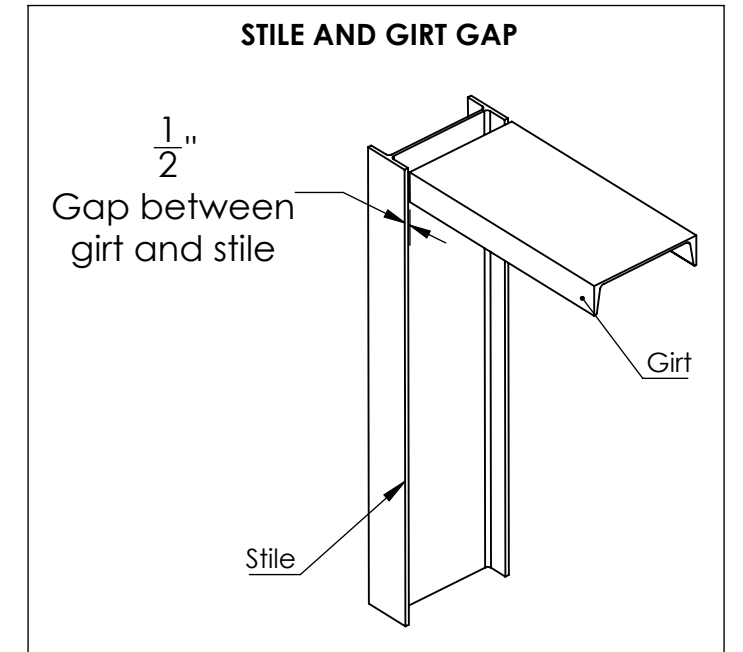
DETAIL 5



DETAIL 6



DETAIL 7



DETAIL 8

WELLBILT
HANGAR DOORS

Well Bilt Industries USA, LLC.
Address: 3001 SW 67th Ave
Ocala, FL 34474
Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

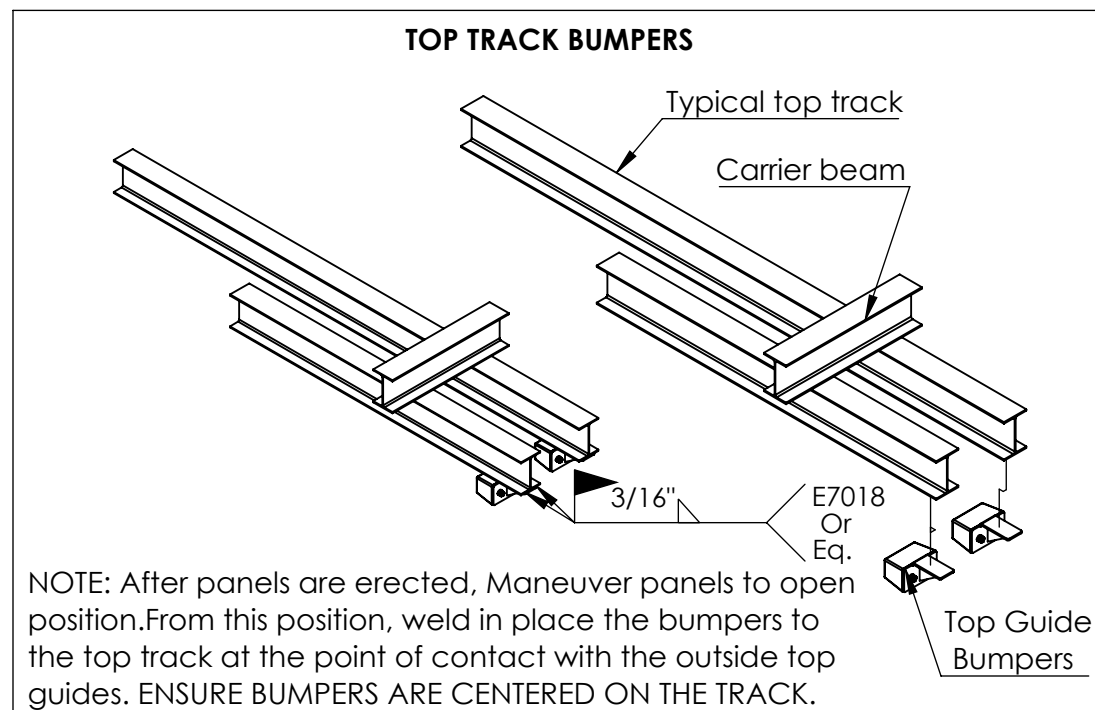
P.E Approval:

Client Signature:

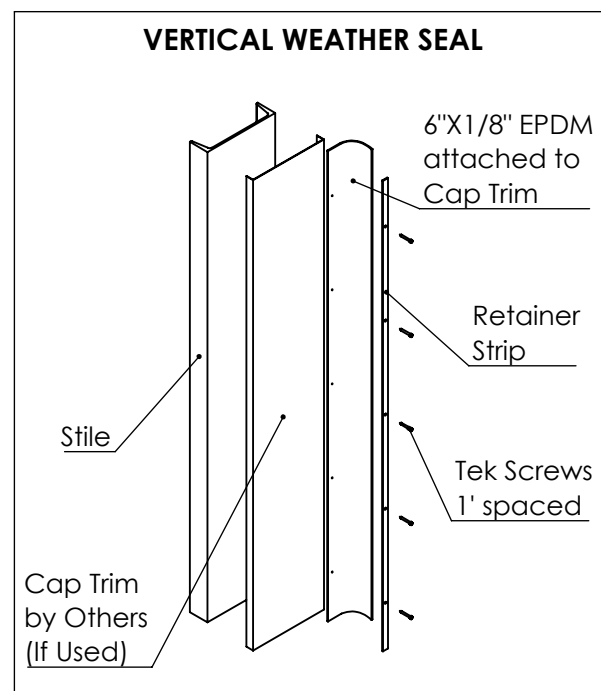
RO
DESIGN DWG: Ahmad S.
CHECKED:
MFG DWG:
MFG APPR:
Q.A:
PERMIT:
APPROVAL DATE:
REVISION: A
REVISION DATE:
Last Saved: 9/29/2023

Project :Harnett Air
Location :615 Airport Rd, Erwin, NC 28339
Customer :Robert Ostendorf
Title :Details 1
Project No:23030

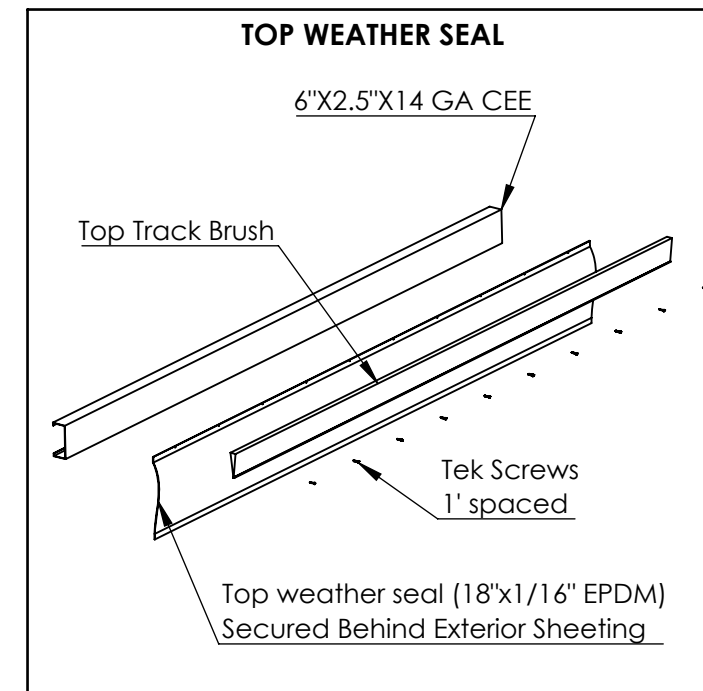
DWG. NO.
S-9



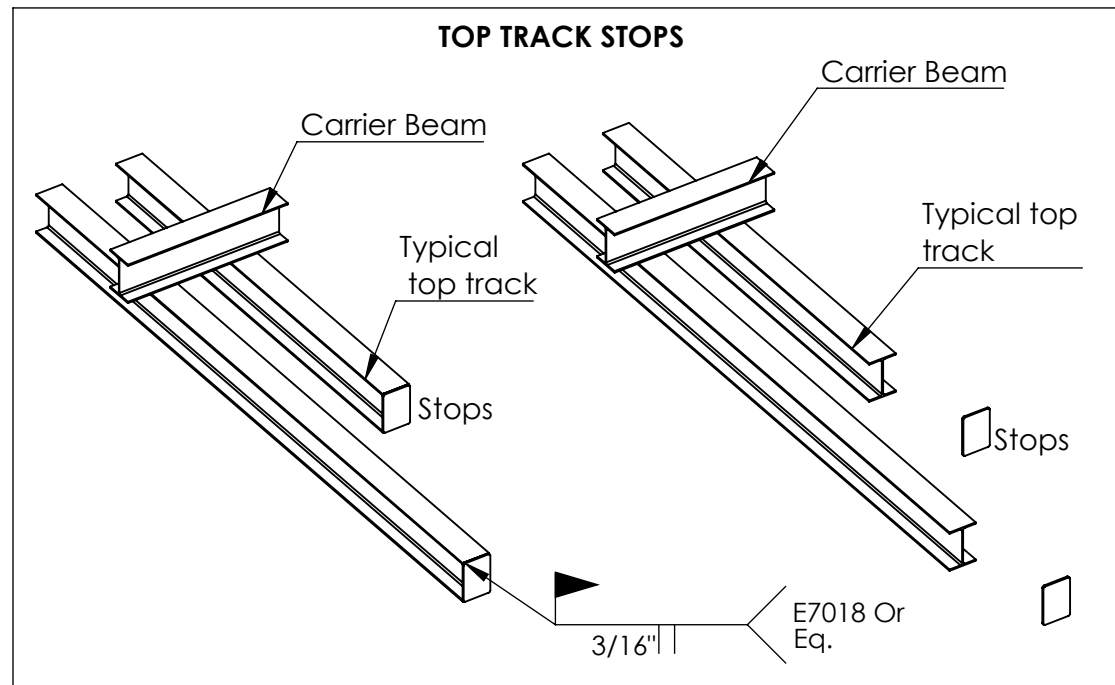
DETAIL 9



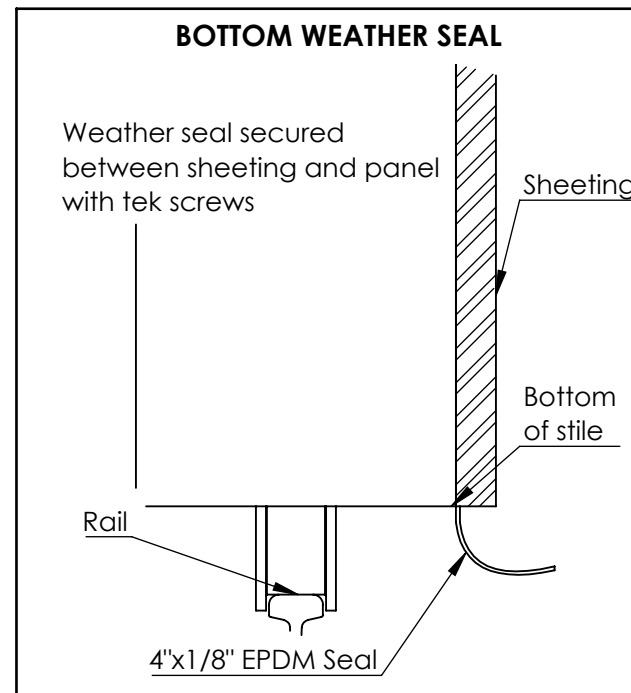
DETAIL 10



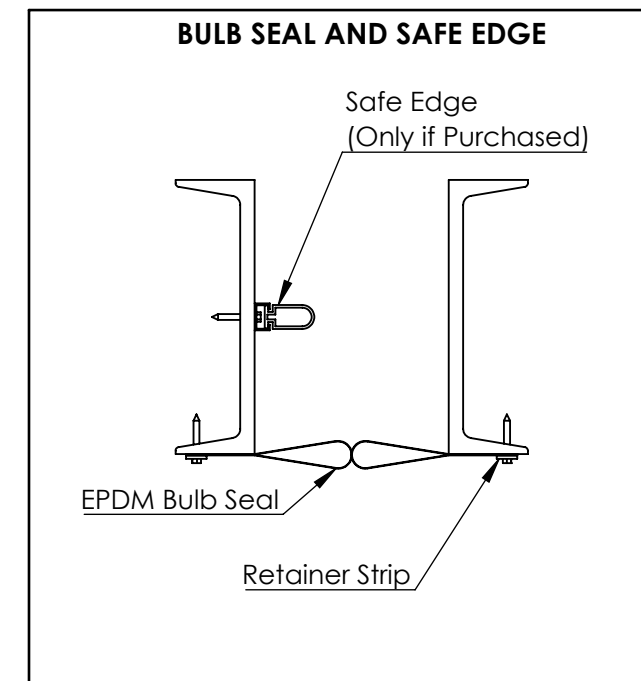
DETAIL 11



DETAIL 12



DETAIL 13



DETAIL 14

WELLBILT
HANGAR DOORS

Well Bilt Industries USA, LLC.
Address: 3001 SW 67th Ave
Ocala, FL 34474
Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

RO

DESIGN DWG: Ahmad S.

CHECKED:

MFG DWG:

MFG. APPR:

Q.A:

PERMIT:

APPROVAL DATE:

REVISION: A

REVISION DATE:

Last Saved: 9/29/2023

Project :Harnett Air

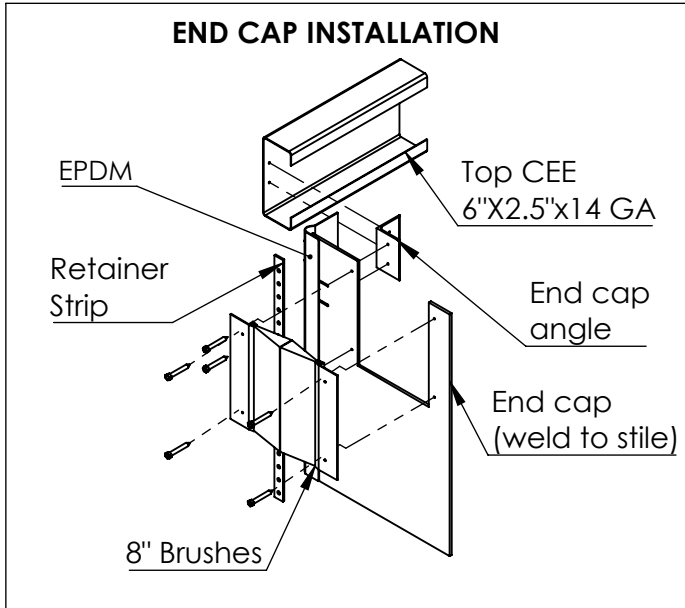
Location :615 Airport Rd, Erwin, NC 28339

Customer :Robert Ostendorf

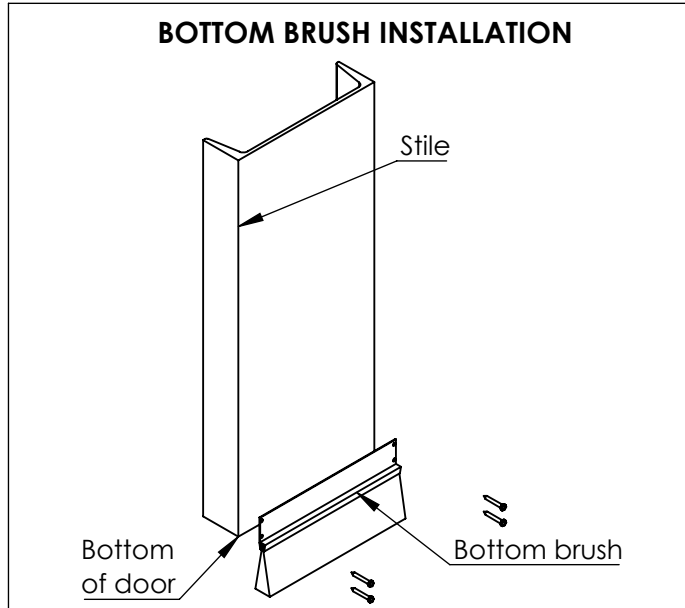
Title :Details 2

Project No:23030

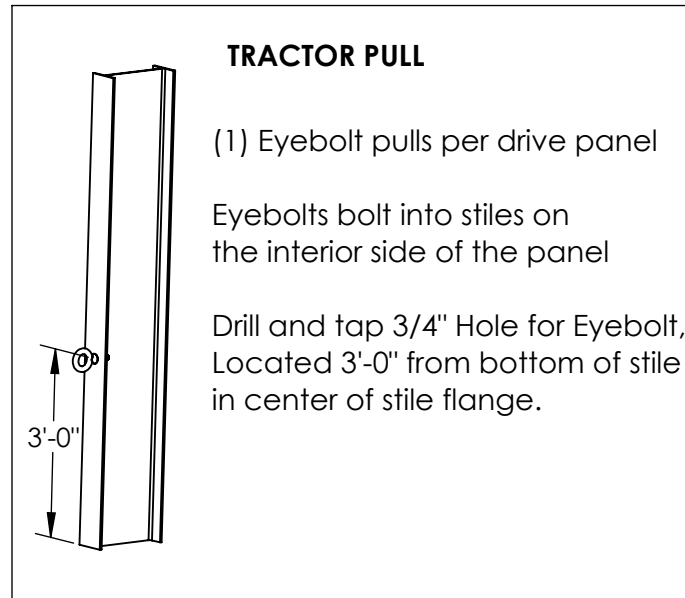
DWG. NO.
S- 10



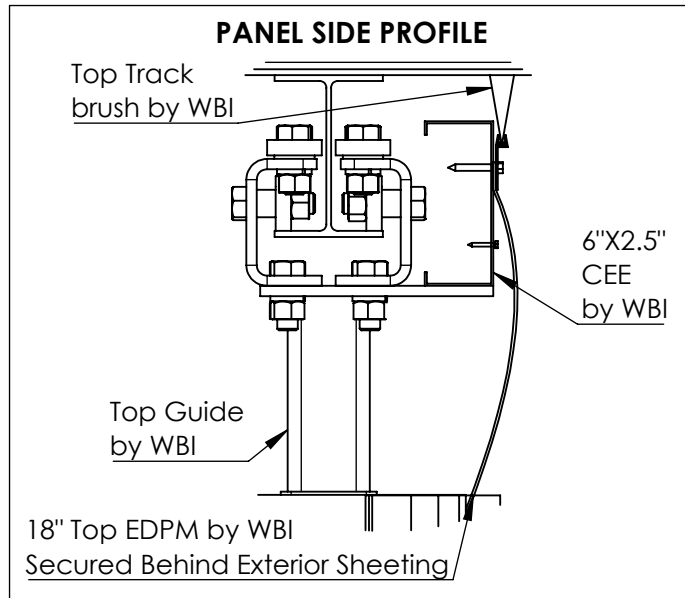
DETAIL 15



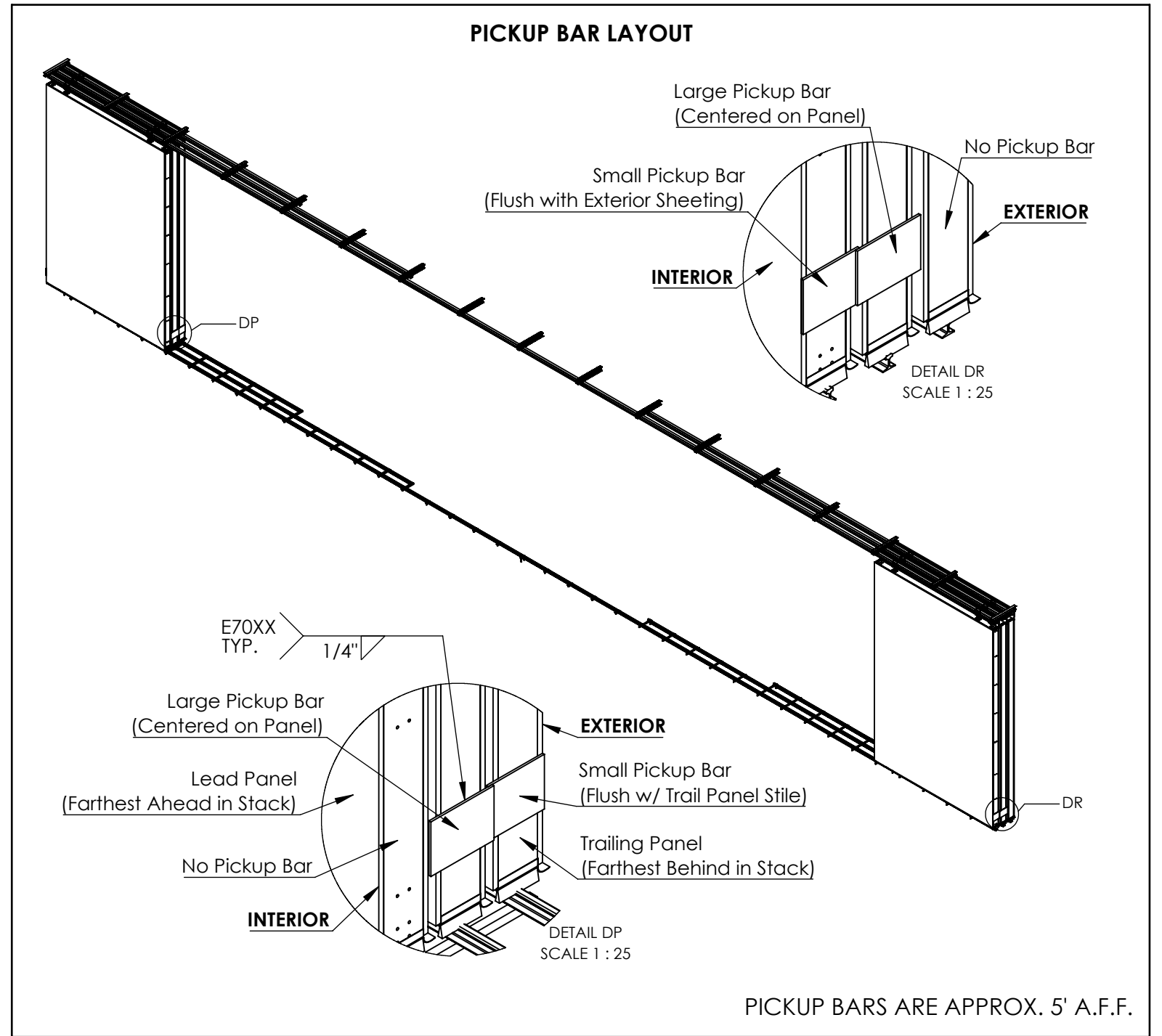
DETAIL 16



DETAIL 17



DETAIL 18



DETAIL 19

PICKUP BARS ARE APPROX. 5' A.F.F.



Well Bilt Industries USA, LLC.
 Address: 3001 SW 67th Ave
 Ocala, FL 34474
 Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

RO
 DESIGN DWG: Ahmad S.
 CHECKED:
 MFG DWG:
 MFG APPR:
 Q.A:
 PERMIT:
 APPROVAL DATE:
 REVISION: A
 REVISION DATE:
 Last Saved: 9/29/2023

Project :Harnett Air
 Location :615 Airport Rd, Erwin, NC 28339
 Customer :Robert Ostendorf
 Title :Details 3
 Project No:23030

DWG. NO.
 S- 11

100 FEET OF 12/4 SOOW DRAPE CABLE WILL BE PROVIDED

Open Limit Strike by WBI
(On Building)

12/4 SOOW Power Voltage
To Building Junction Box

Power Junction Box
By Others.

Horizontal Conduit
By Others

Open and Close
Limit Switch
by WBI.

Close Limit Strike by WBI
(On Building)

SOOW Cable secured to the rear of each door panel with padded 2 hole clamp. Hard wired to top rear of primary panel by way of junction box & emt.

Control Junction Box
By Others

Power Junction Box
By Others

Vertical Conduit
By Others

Control Panel

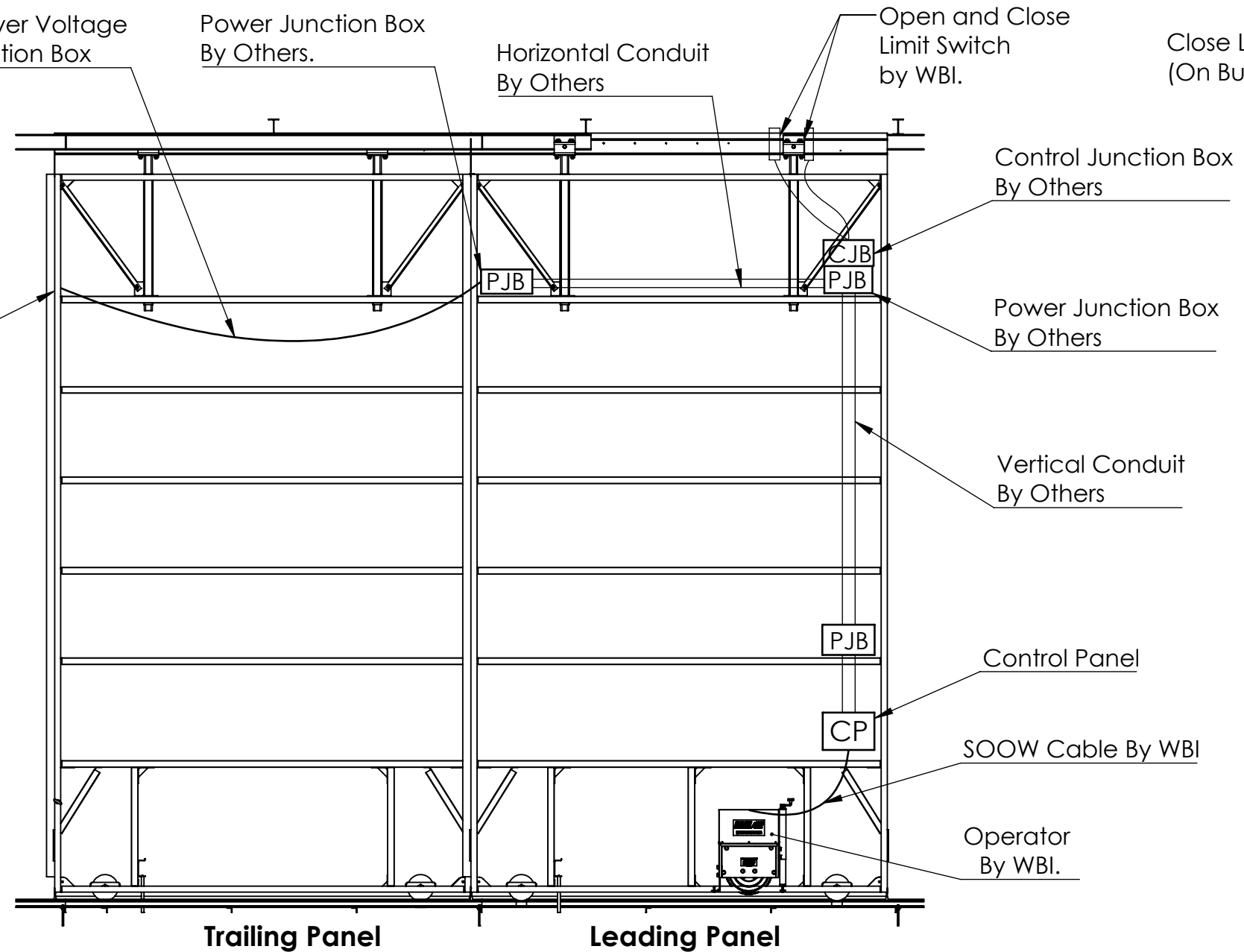
SOOW Cable By WBI

Operator
By WBI.

-Power & Control Junction boxes, Conduit,
and hard wire by others

-Limit Switch location may vary based on
surrounding structure

-Limit Switch mounts and stops by WBI.



Trailing Panel

Leading Panel



Well Bilt Industries USA, LLC.
Address: 3001 SW 67th Ave
Ocala, FL 34474
Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS
DRAWING IS THE SOLE PROPERTY OF WBI.
ANY REPRODUCTION IN PART OR AS A
WHOLE WITHOUT THE WRITTEN PERMISSION
OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:

RO

DESIGN DWG: Ahmad S.

CHECKED:

MFG DWG:

MFG. APPR:

Q.A:

PERMIT:

APPROVAL DATE:

REVISION: A

REVISION DATE:

Last Saved: 9/29/2023

Project :Harnett Air

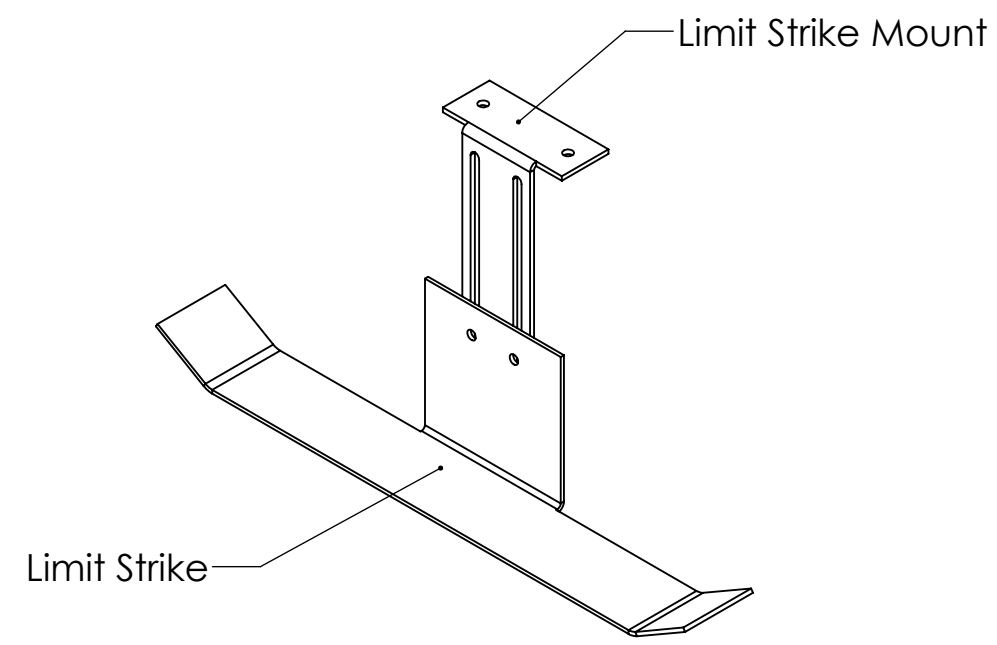
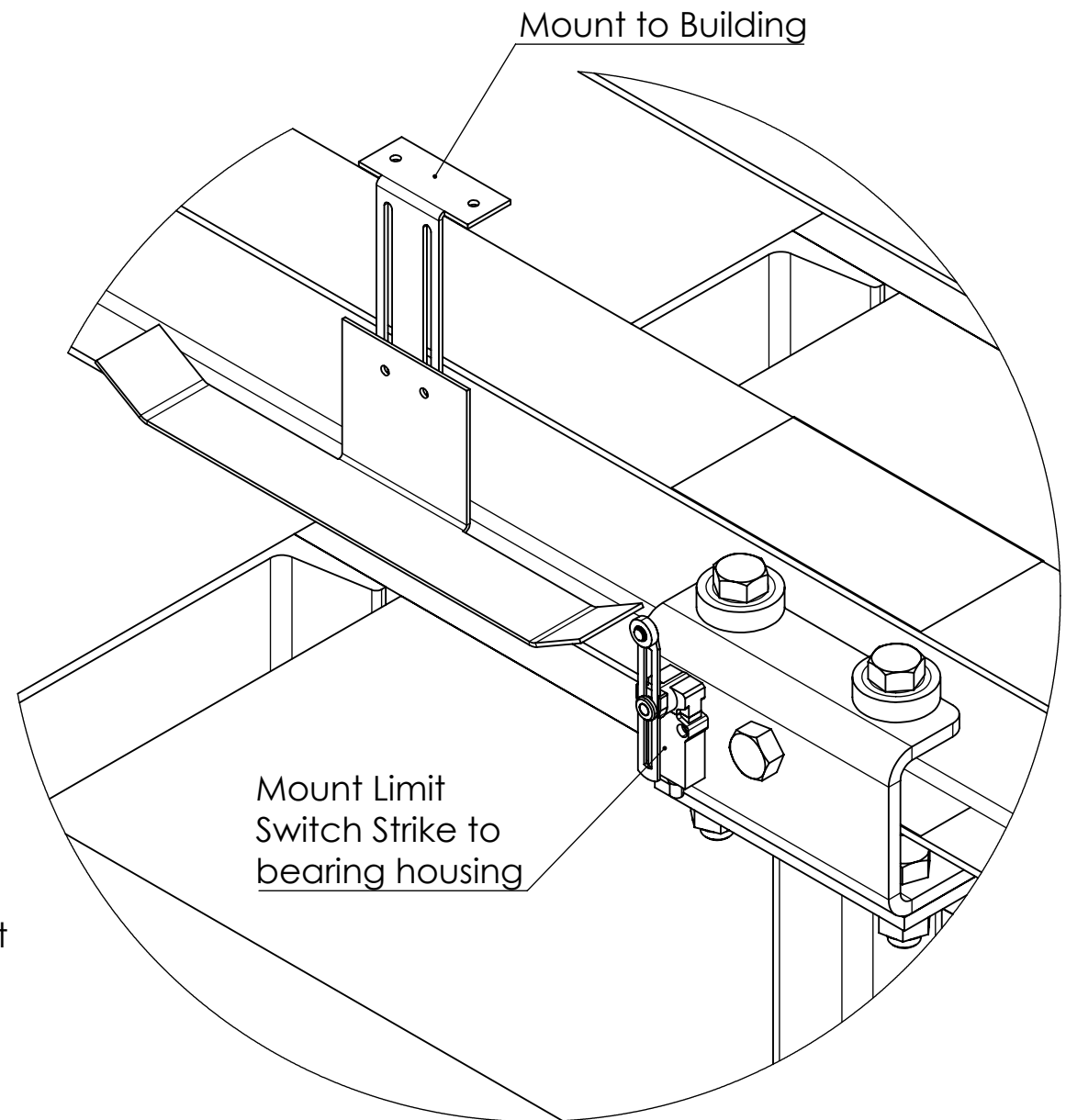
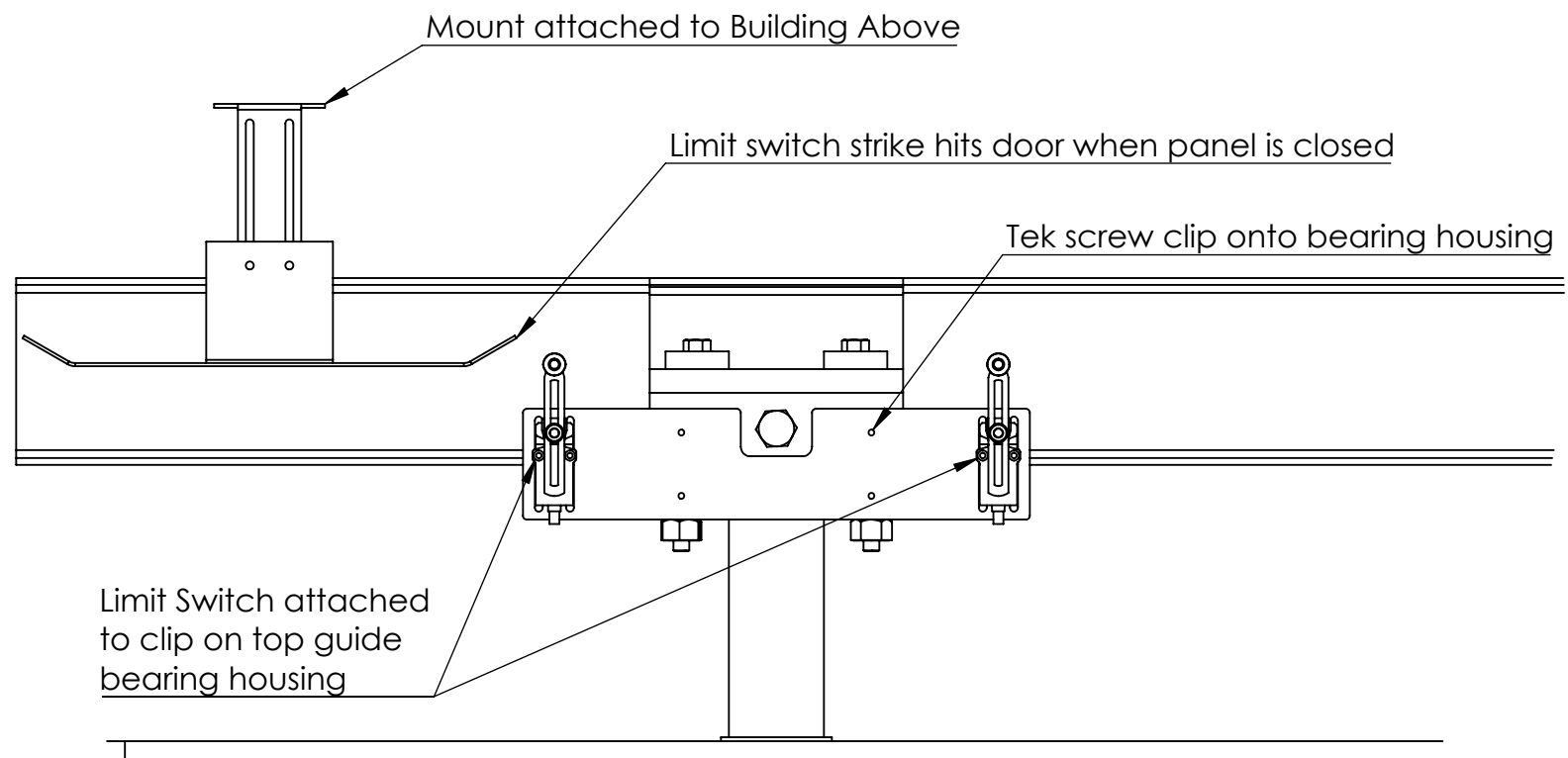
Location :615 Airport Rd, Erwin, NC 28339

Customer :Robert Ostendorf

Title :Electrical Details 1

Project No:23030

DWG. NO.
S- 12



Note: Limit switch setup for closed door not shown



Well Bilt Industries USA, LLC.
 Address: 3001 SW 67th Ave
 Ocala, FL 34474
 Phone: (352) 528-5566

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WBI. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WBI IS PROHIBITED.

P.E Approval:

Client Signature:
RO
 DESIGN DWG: Ahmad S.
 CHECKED:
 MFG DWG:
 MFG. APPR:
 Q.A:
 PERMIT:
 APPROVAL DATE:
 REVISION: A
 REVISION DATE:
 Last Saved: 9/29/2023

Project :Harnett Air
 Location :615 Airport Rd, Erwin, NC 28339
 Customer :Robert Ostendorf
 Title :Electrical Details 2
 Project No:23030
 DWG. NO. S- 13