

Butler Manufacturing a division of BlueScope Buildings North America, Inc.

BASIC BUILDING INSTALLATION GUIDE 3586

MR-24 ROOF INSTALLATION GUIDE 4797

ROOF OWNERS MAINTENANCE 5038

DRAWING INDE	X	DRAWING RELEASE HISTORY				
DRAWING TITLE	PAGES	TYPE	DATE	DESCRIPTION		
COVER SHEET	1	Anchor Rod Drawings Rev0	12/13/2024	FOR CONSTRUCTION		
CODES AND LOADS	2	Final Erection Drawings Rev0	1/14/2024	FOR CONSTRUCTION		
NOTES	3-3a					
ANCHOR ROD PLAN	4					
PRIMARY STRUCTURAL	5-19					
SECONDARY STRUCTURAL	20-28					
COVERING	29-35					
SPECIAL DRAWINGS						
STANDARD ERECTION DETAILS						
PLANOGRAPH DETAILS						

Contact Information: Project Manager Designer

Lead Detailer

SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE

GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS

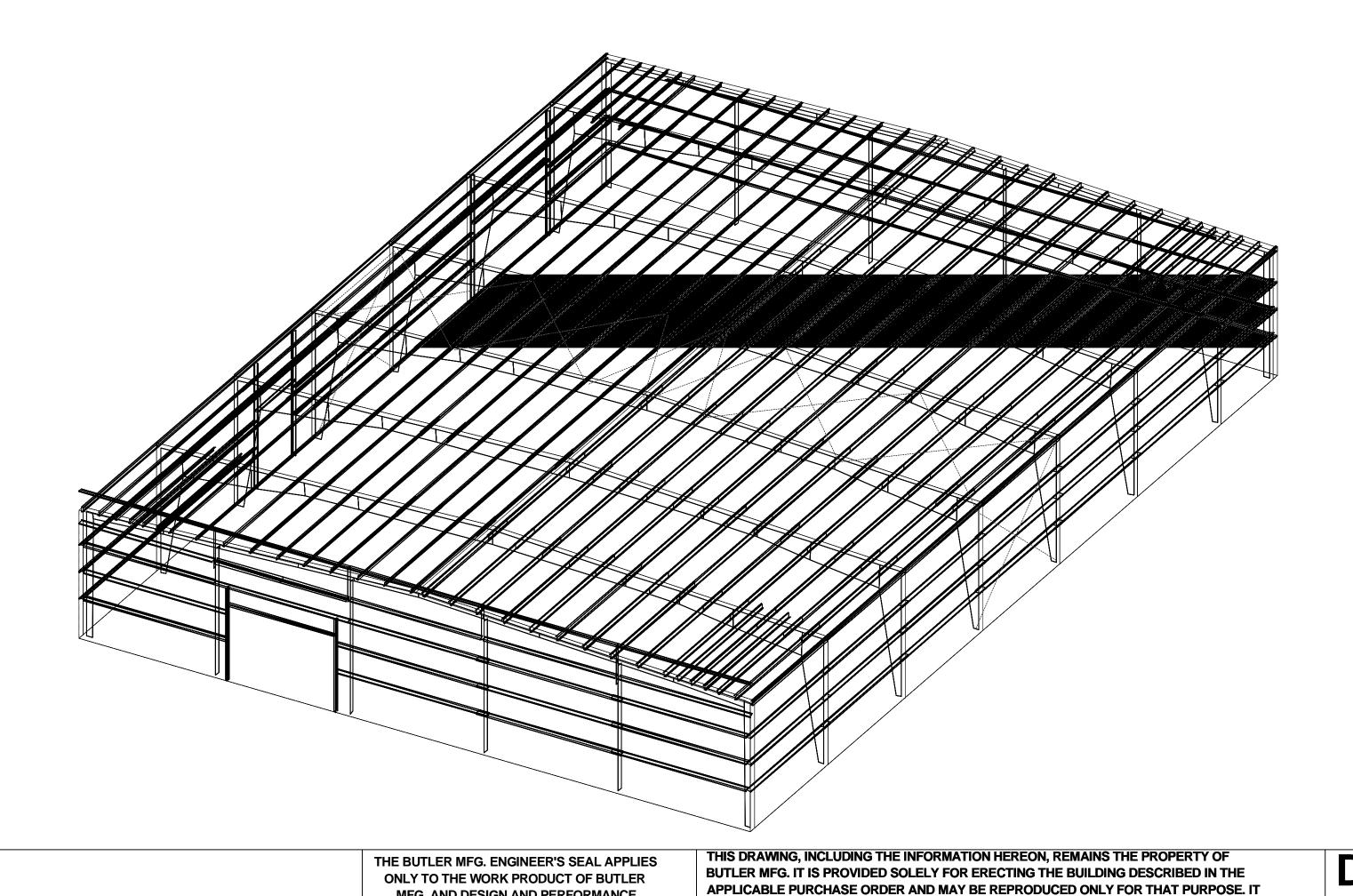
DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG.

ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION,

PRIOR WRITTEN APPROVAL OF BUTLER MFG.

INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

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MFG. AND DESIGN AND PERFORMANCE

REQUIREMENTS SPECIFIED BY BUTLER.

THE BUTLER MFG. ENGINEER'S SEAL DOES

NOT APPLY TO THE PERFORMANCE OR

DESIGN OF ANY OTHER PRODUCT OR

TO ANY DESIGN OR PERFORMANCE

REQUIREMENTS SPECIFIED BY BUTLER.

COMPONENT FURNISHED BY BUTLER EXCEPT

GENERAL NOTES

ASTM DESIGNATION

3 PLATE WELDED SECTIONS COLD FORMED LIGHT GAGE SHAPES **BRACE RODS HOT ROLLED MILL SHAPES** HOT ROLLED ANGLES HOLLOW STRUCTURAL SECTION (HSS)

MATERIALS

CLADDING

A36, A529, A572, A588, A992 A529, A572, A588, A992 A653, A792

A529, A572, A1011, A1018

A653, A1011

A572, A510

GRADE 60 GRADE 50 GRADE 36 OR 50 GRADE 50 GRADE B

GRADE 55

GRADE 50 OR GRADE 80

HIGH STRENGTH BOLT TIGHTENING REQUIREMENTS

IT IS THE RESPONSIBILITY OF THE ERECTOR TO ENSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPLICABLE REGULATIONS. SEE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS FOR MORE INFORMATION. SEE ERECTION GUIDE FOR BOLT TIGHTENING INSTRUCTIONS. THE FOLLOWING CRITERIA MAY BE USED TO DETERMINE THE BOLT TIGHTNESS (I.E.-SNUG TIGHT OR PRE-TENSION) UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTION OR

ALL A490 BOLTS SHALL BE "PRE-TENSIONED". A325 BOLTS IN PRIMARY FRAMING AND BRACING CONNECTIONS MAY BE "SNUG-TIGHT" EXCEPT AS FOLLOWS;

PRE-TENSION A325 BOLTS IF BUILDING SUPPORTS A CRANE GREATER THAN 5 TON CAPACITY.

PRE-TENSION A325 BOLTS IF BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT, OR STRESS **REVERSALS ON CONNECTIONS.**

PRE-TENSION A325 BOLTS IF LOCATED IN HIGH SEISMIC AREAS. FOR IBC BASED CODES; HIGH SEISMIC IS DESIGN CATEGORY D, E OR F. SEE CODES AND LOADS SECTION BELOW FOR DETAILS.

PRE-TENSION ANY CONNECTION WITH DESIGNATION A325-SC. SLIP CRITICAL (SC) CONNECTIONS MUST BE FREE OF PAINT, OIL OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. GALVANIZED OR LIGHTLY RUSTED SURFACES ARE ACCEPTABLE.

IN CANADA, ALL A325 AND A490 BOLTS SHALL BE "PRE-TENSIONED", EXCEPT FOR SECONDARY MEMBERS AND **FLANGE BRACES.**

SECONDARY MEMBERS AND FLANGE BRACE CONNECTIONS ARE ALWAYS "SNUG TIGHT", UNLESS INDICATED OTHERWISE IN **ERECTION DRAWING DETAILS.**

INSPECTION AND TESTING

SPECIAL INSPECTIONS AND TESTING REQUIRED BY AUTHORITY HAVING JURISDICTION (AHJ) DURING CONSTRUCTION AND/OR STEEL FABRICATION IS THE RESPONSIBILITY OF THE OWNER OR OWNERS AUTHORIZED AGENT. WHEN REQUIRED, THE OWNER SHALL EMPLOY A QUALITY ASSURANCE AGENCY (QAA) APPROVED BY THE AHJ. THE BUILDER IS RESPONSIBLE TO COORDINATE BETWEEN THE QAA FIRM AND BBNA FABRICATION FACILITIES. THE TYPE AND EXTENT OF SPECIAL INSPECTIONS AND NDT WELD TESTING MUST BE SPECIFICALLY STIPULATED IN CONTRACT DOCUMENTS OR BBNA WILL ASSUME SPECIAL INSPECTIONS AND/OR NDT TESTING ARE WAIVED AS PERMITTED BY THE BUILDING CODE BASED ON BBNA FACILITIES IAS AC472 ACCREDITATION.

01/09/2025

Reviewed For Construction PG 1-35 on 1/9/2025 by SR

BUTLER MANUFACTURING COVER SHEET 1540 GENESSEE ST. KANSAS CITY, MO 64102

11:08:17

BUILDER: MAR BUILDING SOLUTIONS LLC BUTLER Lees Summit, Missouri PROJECT: KR Wholesale **Butler Manufacturing** BUILDER'S PO#: 200440709 VPC VERSION: 24.3.1

VPC FILENAME: 24-025448-01

12/18/2024

24-025448-01

LDCM / GL

1/14/2024

Codes and Loads WHEN MULTIPLE BUILDINGS ARE INVOLVED, SPECIFIC LOAD FACTORS FOR DIFFERING OCCUPANCIES, BUILDING DIMENSIONS, HEIGHTS, FRAMING SYSTEMS, ROOF SLOPES, ETC., MAY RESULT IN DIFFERENT LOAD APPLICATION FACTORS THAN INDICATED BELOW. SEE CALCULATIONS FOR FURTHER DETAILS. WIND LOADS ARE APPLIED TO OVERALL BUILDING ENVELOPE. COMMON WALLS BETWEEN CONNECTED SHAPES ARE NOT SUBJECT TO EXTERNAL WIND LOADS. City: Lees Summit State: Missouri County: Jackson Country: United States Building Code Building Code: IBC 2018 Structural: 16AISC - ASD Rainfall: I: 3.00 inches per hour Based on Building Code: 2018 International Building Code Cold Form: 16AISI - ASD f'c: 3000.00 psi Concrete Building Risk/Occupancy Category: II (Standard Occupancy Structure) Dead and Collateral Loads Material Dead Weight Roof Live Load Roof Covering + Second. Dead Load: 2.26 psf Roof Live Load: 20.00 psf Reducible Collateral Gravity: 5.00 psf Collateral Uplift: 0.00 psf Frame Weight (assumed for seismic):2.50 psf Wind Load Snow Load Seismic Load Wind Speed: Vult: 115.00 (Vasd: 89.08) mph Ground Snow Load: pg: 20.00 psf Lateral Force Resisting Systems using Equivalent Force Procedure The 'Envelope Procedure' is Used Flat Roof Snow: pf: 14.00 psf Mapped MCE Acceleration: Ss: 12.00 %g Primaries Wind Exposure: C - Kz: 0.936 Design Snow (Sloped): ps: 14.00 psf Mapped MCE Acceleration: S1: 6.00 %g Parts Wind Exposure Factor: 0.936 Rain Surcharge: 0.00 psf Site Class: Stiff soil (D) - Default Wind Enclosure: Enclosed Specified Minimum Roof Snow: 20.00 psf (Code) Seismic Importance: Ie: 1.000 Design Acceleration Parameter: Sds: 0.1280 Topographic Factor: Kzt: 1.0000 Exposure Factor: 2 Partially Exposed - Ce: 1.00 Ground Elevation Factor: Ke: 1.0000 Snow Importance: Is: 1.000 Design Acceleration Parameter: Sd1: 0.0960 Thermal Factor: Heated - Ct: 1.00 Seismic Design Category: B NOT Windborne Debris Region Ground / Roof Conversion: 0.70 Seismic Snow Load: 0.00 psf % Snow Used in Seismic: 0.00 Base Elevation: 0/0/0 Obstructed or Not Slippery Site Elevation: 0.0 ft Diaphragm Condition: Flexible Primary Zone Strip Width: 2a: 19/1/3 Fundamental Period Height Used: 25/2/2 Parts / Portions Zone Strip Width: Walls, a: 9/6/10 Transverse Direction Parameters Roof(s), 0.6h: 14/3/14System NOT detailed for Seismic Velocity Pressure: qz: 26.94, (C&C) 26.94 psf Redundancy Factor: Rho: 1.00 Fundamental Period: Ta: 0.3698 Load Notes R-Factor: 3.00 Collateral Load Description - Lights HVAC, mics Overstrength Factor: Omega: 2.50 Deflection Amplification Factor: Cd: 3.00 Base Shear: V: 0.0427 x W Longitudinal Direction Parameters System NOT detailed for Seismic Redundancy Factor: Rho: 1.00 Fundamental Period: Ta: 0.2248 R-Factor: 3.00 Overstrength Factor: Omega: 2.50 Deflection Amplification Factor: Cd: 3.00 Base Shear: V: 0.0427 x W Building - Shape 1 Roof: B Building - Shape 1 Roof: A

Snow Buildup	_				
Shape	Surface	Description	X Location	Y Location	Magnitude
Building - Shape 1	Roof: A	Unbalanced Snow Load 1, Shifted Left : Roof: A	0.0 ft	32.6 ft	8.4 psf
			0.0 ft	0.0 ft	8.4 psf
			170.0 ft	0.0 ft	8.4 psf
- 17.71			170.0 ft	32.6 ft	8.4 psf
Building - Shape 1	Roof: A	Snow Drift (from Wall 1, Shape Building - Shape 1) (1 of 3) : Roof: A	0.0 ft	62.6 ft	39.0 psf
			0.0 ft	41.7 ft	39.0 psf
			11.4 ft	41.7 ft	0.0 psf
			11.4 ft	62.6 ft	0.0 psf
Building - Shape 1	Roof: A	Snow Drift (from Wall 1, Shape Building - Shape 1) (2 of 3) : Roof: A	0.0 ft	41.7 ft	24.6 psf
			0.0 ft	20.9 ft	24.6 psf
			7.4 ft	20.9 ft	0.0 psf
			7.4 ft	41.7 ft	0.0 psf
Building - Shape 1	Roof: A	Snow Drift (from Wall 1, Shape Building - Shape 1) (3 of 3) : Roof: A	0.0 ft	20.9 ft	10.2 psf
			0.0 ft	0.0 ft	10.2 psf
			3.4 ft	0.0 ft	0.0 psf
			3.4 ft	20.9 ft	0.0 psf
Building - Shape 1	Roof: B	Unbalanced Snow Load 1, Shifted Right : Roof: B	0.0 ft	32.6 ft	8.4 psf
			0.0 ft	0.0 ft	8.4 psf
			170.0 ft	0.0 ft	8.4 psf
			170.0 ft	32.6 ft	8.4 psf
Building - Shape 1	Roof: B	Snow Drift (from Wall 1, Shape Building - Shape 1) (1 of 3) : Roof: B	170.0 ft	0.0 ft	10.2 psf
			170.0 ft	20.9 ft	10.2 psf
			166.6 ft	20.9 ft	0.0 psf
			166.6 ft	0.0 ft	0.0 psf
Building - Shape 1	Roof: B	Snow Drift (from Wall 1, Shape Building - Shape 1) (2 of 3) : Roof: B	170.0 ft	20.9 ft	24.6 psf
			170.0 ft	41.7 ft	24.6 psf
			162.6 ft	41.7 ft	0.0 psf
			162.6 ft	20.9 ft	0.0 psf
Building - Shape 1	Roof: B	Snow Drift (from Wall 1, Shape Building - Shape 1) (3 of 3) : Roof: B	170.0 ft	41.7 ft	39.0 psf
.			170.0 ft	62.6 ft	39.0 psf
			158.6 ft	62.6 ft	0.0 psf
			158.6 ft	41.7 ft	0.0 psf
1. The Snow Buildup	loading show	on is in addition to the flat or sloped roof snow.			- ·
-	_	ons are from the point of origin of each surface.			

2. The X and Y Location dimensions are from the point of origin of each surface.

FOR CONSTRUCTION

THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR **COMPONENT FURNISHED BY BUTLER EXCEPT** TO ANY DESIGN OR PERFORMANCE

REQUIREMENTS SPECIFIED BY BUTLER.

THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF BUTLER MFG.

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

					/IN
			UTLER MANUFACTURING SSEE ST. KANSAS CITY, MO 64102		
/ :	DATE:	BY:	DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC	JOB #: 24-025448-01
				CUSTOMER:	DATE:
1				LOCATION: Lees Summit, Missouri	BUTLER 12/13/2024 DRAWN/CHECK:
1				PROJECT: KR Wholesale	Butler Manufacturing SR / KE
A۷	WING SCALE:		NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1 PAGE:

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/ KEF

BUILDER/CONTRACTOR RESPONSIBILITIES

Butler Mfg. follows the guidelines as outlined in the AISC and MBMA Codes of Standard Practice. Butler Mfg. standard product specifications, design, fabrication, quality criteria shall govern all work unless stipulated otherwise in the contract documents. In case of discrepancies between Butler Mfg. structural plans and plans for other trades, Butler Mfg. structural plans shall govern.

It is the responsibility of the Builder to obtain approvals and permits from all governing agencies and jurisdictions as required. Approval of Butler Mfg drawings constitutes the builders acceptance of Butler interpretation of the contract purchase order. Unless specific design criteria concerning interface design and details are furnished as part of the contract, Butler Mfg. design assumptions shall govern.

Butler engineers are not Project Engineers or Engineer of Record for the overall project. Butler engineering supply sealed engineering design data and drawings for Butler supplied material as part of the overall project for use by others to obtain permits, approvals, and coordinate with other trades. All interface and/or compatibility of any materials not furnished by Butler are to be considered and coordinated by the builder or A/E firm.

CONSTRUCTION & ERECTION RESPONSIBILITY

The Builder is responsible for construction in strict accordance with Butler Mfg.
"FOR CONSTRUCTION" drawings and all applicable product installation guides. Butler is not responsible for work done from any other Butler drawings that are not marked
"FOR CONSTRUCTION", nor any drawings prepared by others.

As erected field assemblies of members shall be as specified in MBMA Code of Standard Practice (in Canada - CSA S16), which require L/500 tolerance of installed members. Occasional field work including shimming, cutting, coping, and drilling for final fit-up are considered part of erection. Specified field work and field welding conditions indicated on these drawings shall also be included in the erectors scope of work. See Erection Guide for shimming procedure. For building with top riding bridge cranes see Crane Data drawing for column plumb tolerance.

The building erector shall be properly licensed and experienced in erecting metal building systems. The Builder is responsible for having knowledge of, and shall comply with, all OSHA requirements and all other governing site safety criteria. The builder is responsible for designing, supplying, locating and installing temporary supports and bracing during erection of the building. Butler bracing is designed for code required loads after building completion and shall not be considered as adequate erection bracing. See Erection Guide.

Shimming of steel buildings during erection may be required to accomodate allowable tolerances during fabrication and erection. Special care should be taken by the building erector to shim connections where key dimensions must be maintained for building performance as even small tolerances can have a significant impact on critical dimensions such as height, clearances and plumbness, especially as the size of the member or building increases. Conditions where shimming should be expected can include but are not limited to large door openings, critical clear height requirements, cranes, buildings greater than 45 feet in height, clear spans greater than 125 feet and adjacent frames with different characteristics (like clear span frames adjacent to an endwall or modular frame). Shims are normally provided by the erector, but may be ordered upon request by contacting your Project Manager.

EXISTING STRUCTURES

Butler must be advised of any structure that is within 20 ft. of Butler's building. Load effects from snow drifting, wind effects, and seismic separation must be considered for both the new and existing structures. Butler has designed the new Butler building for these effects. The owner/builder are responsible for employing a Professional Engineer to review and verify the existing structure for all load effects from the adjacent Butler building.

BRACING

Tension brace rods work in pairs to balance forces caused by initial tensioning. Care must be taken while tightening brace rods so as not to cause accidental or misalignment of components. All rods must be installed loose and then tightened. Rods should not exhibit excessive sag. For long or heavy rods, or angles it may be necessary to support the rods at mid-bay by suspending them from secondary members.

Bracing for seismic or wind loading of objects or equipment that are not a part of the Butler structure must be designed by a qualified professional to deliver lateral loads to primary frames and rod bracing struts. Equipment bracing and suspension connections must not impose torsion or minor axis loads, or cause local distortion in any Butler components. Butler accepts no responsibility for design or installation of bracing systems not furnished by Butler.

FIELD WELDING

All field welding shall be done at the direction of a design professional, and done in accordance with governing requirements (AWS in USA, CWB in Canada) by welders qualified to perform the welding as directed by the applicable welding procedure specification (WPS). A WPS shall be prepared by the contractor for each welding variation specified. The contractor is responsible for any special welding inspection as required by local jurisdiction. Filler metal shall be 70 ksi (480 MPa) tensile strength. For welds in high seismic force resisting system (Seismic Cat D, E or F), minimum Charpy V-Notch toughness shall meet AISC-341 criteria (20 ft-lbs min @ 0Deg F). Interpass temperatures shall not exceed 550Deg F (300Deg C).

SIGNAGE

The Builder is responsible for furnishing signs as required by Code and the Building Department, including but not limited to, exits, occupancy limits, floor loading limits, and bulk storage limits. Floor loading signs shall clearly indicate maximum floor live load permitted. Bulk storage facilities shall have signs clearly posted on all loaded walls indicating the type of commodity stored and the maximum storage height. Signs shall be clearly visible when building is fully loaded to design level. Overloading of floors or walls may result in failure.

DELIVERIES

It is the responsibility of the builder to have adequate equipment available at the job site to unload trucks in a safe and timely manner. The Builder will be responsible for all retention charges from carriers as a result of job site unloading delays.

Claims for damage or shorts MUST be noted on the Bill-of-Lading or delivery receipt and filed against the carrier by the consignee as per Butler's Terms of Sales (F.O.B. Plant) under the Uniform Commercial Code. It is critical that damages or shorts be noted on the Bill-of-Lading or you have little recourse with the carrier. Immediately upon delivery of material, material quantities are verified by the Builder against quantities billed on the shipping document. Neither the Manufacturer nor the carrier is responsible for material shortages against quantities billed on the shipping document if such shortages are not noted on the shipping documents upon delivery of material and acknowledged by the carriers agent. For materials concealed in bundles, boxes, or crates, shortages must be reported immediately upon unpacking. Should products get wet, bundled and crated materials must be unpacked and unbundled immediately to provide drainage of trapped moisture. See Erection Guide for proper job site storage procedure.

SEALANTS

Sealants shall be applied in strict accordance with Butler details or weather tightness will be compromised. Sealant must be applied in temperatures and weather conditions consistent with labeling.

INDEPENDENT MEZZANINES

Independent mezzanines must be designed by a professional engineer. The engineer must ensure that proper isolation from the Butler building has been provided to avoid structural damage due to differential movements, or inadvertently apply loads to the Butler structure. Butler accepts no responsibility for the design of the independent mezzanine.

FIRE CODE COMPLIANCE

It is the responsibility of the project design professional and builder to comply with local fire code regulations including consideration of, but not limited to, building use and occupancy, all building construction materials, separation requirements, egress requirements, fire protection systems, etc. Builder shall advise Butler of any special requirements to be furnished by Butler.

FIELD MODIFICATIONS

Modifications to this building from details and instructions contained on these drawings must be approved in writing by Butler Mfg. engineers, or other licensed structural engineer. This includes, but is not limited to, removal of roof or wall cladding, removing or moving any flange braces or rod braces, cutting of openings for doors, windows or RTU's, correction of fabrication errors, etc. The owner shall not impose loads to this structure beyond what is specified for this building in the contract documents. Butler Mfg. accepts no responsibility for the consequences of any unauthorized additions, alterations, or added loads to this structure.

If the builder intends to invoice Butler Mfg. for modifications in excess of \$1000, The builder must notify Butler Mfg. immediately, and obtain a Work Authorization from Butler Mfg prior to proceeding. All final claims must be submitted to Butler Mfg with all supporting documentation within 30 days of the building completion. Claims submitted without work authorizations, or after 30 days will not be accepted. Correction of minor misfits, shimming and plumbing, moderate amount of reaming, drilling, chipping / cutting and minor welding are considered by Code of Standard Practice to be part of erection are not subject to claim reimbursement.

CONCRETE/MASONRY/CONVENTIONAL STUD WALLS

The engineer responsible for the design of the wall system is responsible for coordinating with, or specifying to Butler Mfg, any wall to steel compatibility issues such as drift and deflection compatibility, special base details, and wall to Butler steel connections. All fasteners, sealant and counter flashing of wall systems are to be provided by contractor. The engineer responsible for the wall shall design the anchorage to Butler supporting elements consistent with Code required forces.

PANELS

Oil canning is an inherent characteristic of cold formed steel panels. It is the result of several factors that include induced stresses in the raw material delivered to Butler, fabrication methods, installation procedures, and post installation thermal forces. Thru fastened panels will exhibit some dimpling when installed, especially when insulation is installed between panels and secondary supports. Dimpling can be minimized by careful installation, taking care not to over drive fasteners.

Roof rumble is a phenomenon that is caused by wind gusts lifting up on the roof panels and then springing back into place. All panels experience this action to some degree, especially with concealed clip Standing Seam panels. Roof rumble noise may be minimized by providing a layer of blanket insulation between the panels and any hard support surface such as steel secondary members, substrates such as plywood, steel decking, or rigid board insulation. A minimum of 3 inch thick blanket is recommended over steel secondary members, or 2 inch over substrates.

Oil canning, dimpling, and roof rumble do not affect the structural integrity or weather tightness of the panels and is not grounds for rejection of panels.

The Standing Seam joint detail is designed with an interlocking feature for ease of installation. However, it is imperative that installed Standing Seam panels be secured to the secondary structural members and properly seamed prior to departure from the job site each day.

SKYLIGHTS

Local building departments may require added fall restraint due to conditions that may affect the skylight structural integrity. It is the responsibility of the builder to determine and provide any added fall restraint under the skylight as may be required by your building department.

RAIN WATER RUNOFF

Drainage systems must be designed by the project professional to comply with code requirements. Butler is not responsible for drainage designs, overflow scuppers, down piping, etc. The project professional and contractor are responsible to ensure that primary drains and overflow devices such as scuppers and auxiliary drains are provided as required for the required rain intensity at the building perimeter and at valley conditions to prevent ponding.

STEEL SHOP COAT

The purpose of Butler's shop coat is to provide protection for the steel members during transportation, during temporary job site storage and during erection. Standard shop formulation is not designed to perform as a finish coat when exposed to environmental conditions. Members shall be kept free of the ground and properly drained during job site storage. It is the Builder's responsibility to ensure that if a finish coat is being applied over Butler shop coat that the painting contractor verifies compatibility between his finish coat and Butler's shop coat.

BUTLER MFG. ACCREDITATIONS AND APPROVALS

Fabricator Approvals

IAS AC472 Approvals: (www.iasonline.org/services/metal-building-inspection)
Listed under BlueScope Buildings North America, Inc.

City of Los Angeles, CA #FB00031; City of Houston, TX 767;

City of Phoenix, AZ C19-02008; Clark County, NV 43 & 833, San Bernardino County, CA 289, State of Utah, City of Richmond, Ca.

Design Approvals

IAS AC472 Approvals: (www.iasonline.org/services/metal-building-inspection)
Listed under Butler Manufacturing, a Division of BlueScope Buildings North America, Inc.

Canadian CSA A660 Certifications

(www.cwbgroup.org)

Listed under BlueScope Buildings North America, Inc.

Engineering Certifications of Authorization

USA--AL#CA-5589-E; AZ#22225-0; AR#576; FL#30427; GA#PEF007551; ID#C-2470; IL#184-002649; KS#E-29; KY#4490; LA#EF6722; MS#E-0592; MO#E-2010007736; NC#F-0998; ND#1579PE; NJ#24GA28318800; NV#20437; OH#05898; OK#CA4170PE; RI#8838; SC#6206; SD#C-1787; TX#F4828; VA#0411001520; VA#0411001518; WA#4119; WV#C03059-00

CAN--AB#P08900; NB#F0951; NL#D0044; NS#30123; NT#P062; ON#100148796; and YT#PP134



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BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

FOR CONSTRUCTION

ERECTION NOTES

Total Genessee St. Kansas City, Mo 64102

REV: DATE: BY: DESCRIPTION: BUILDER: MAR BUILDING SOLUTIONS LLC

CUSTOMER:

LOCATION: Lees Summit, Missouri

PROJECT: KR Wholesale

Butler Manufacturii

DRAWING SCALE: NTS

BUILDER'S PO#: 200440709

VPC VERSION: 24.3.1

Butler Manufacturing

VPC VERSION: 24.3.1

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NOTES FOR LARGE CLEAR SPAN PROJECTS (TYPICALLY 120' & GREATER):

THESE INSTRUCTIONS TYPICALLY APPLY TO FRAMES WITH CLEAR SPANS 120' OR GREATER, HOWEVER, IF A BUILDING SUPPORTS HEAVY ROOF LOADS OR LARGE BAYS, THEN SMALLER SPANS MAY BE OF CONCERN; REVIEW WITH YOUR SERVICE CENTER TO OBTAIN ANSWERS TO QUESTIONS.

LARGE CLEAR SPAN FRAMES VERTICALLY DEFLECT UNDER SELF WEIGHT AS WELL AS UNDER THE ADDITIONAL WEIGHT OF MATERIAL ATTACHING TO THE FRAMES (DEAD AND COLLATERAL LOAD)

FIVE REFERENCE ELEVATIONS ARE PROVIDED. THE FIRST ELEVATION IS THE FRAME IN ITS THEORETICAL UNLOADED POSITION (NO CAMBER OR SETTLEMENT). THE SECOND ELEVATION IS THE CAMBERED FRAME POSITION. THE THIRD ELEVATION IS THE FRAME SETTLEMENT UNDER FRAME SELF WEIGHT. THE FOURTH ELEVATION IS THE FRAME SETTLEMENT UNDER THE DEAD LOAD OF INTEGRAL MATERIAL (FRAME WEIGHT PLUS PURLINS, INSULATION, COVERING, AND LINER). THE FIFTH SCHEMATIC IS THE FRAME SETTLEMENT UNDER DEAD LOAD AND COLLATERAL LOAD.

DURING THE COURSE OF CONSTRUCTION, DIFFERENTIAL SETTLEMENTS MAY OCCUR IN RAFTER ELEVATIONS FROM FRAME LINE TO FRAME LINE. AS LONG AS ELEVATIONS EXCEED THE POSITIONS TABULATED, NO CONCERN IS NECESSARY.

IF THE ELEVATIONS DO NOT EXCEED THE TABULATED VALUES, REVIEW THE FIELD CONDITIONS WITH YOUR SERVICE CENTER TO ENSURE THE STRUCTURAL INTEGRITY OF THE BUILDING SYSTEM SUPPLIED.

MANY FIELD CONDITIONS CAN CAUSE FIELD VARIATION IN ELEVATION FROM CALCULATED VALUES. IF ALL OTHER FIELD CONDITIONS HAVE BEEN REVIEWED AND DETERMINED TO HAVE BEEN INSTALLED CORRECTLY IN ACCORDANCE WITH ERECTION DRAWINGS, THEN SHIMMING OF THE FRAME IS A VIABLE SOLUTION TO ADJUST ELEVATIONS TO A CORRECT LEVEL.

*SHIMS ARE TO BE PROVIDED BY THE ERECTOR.

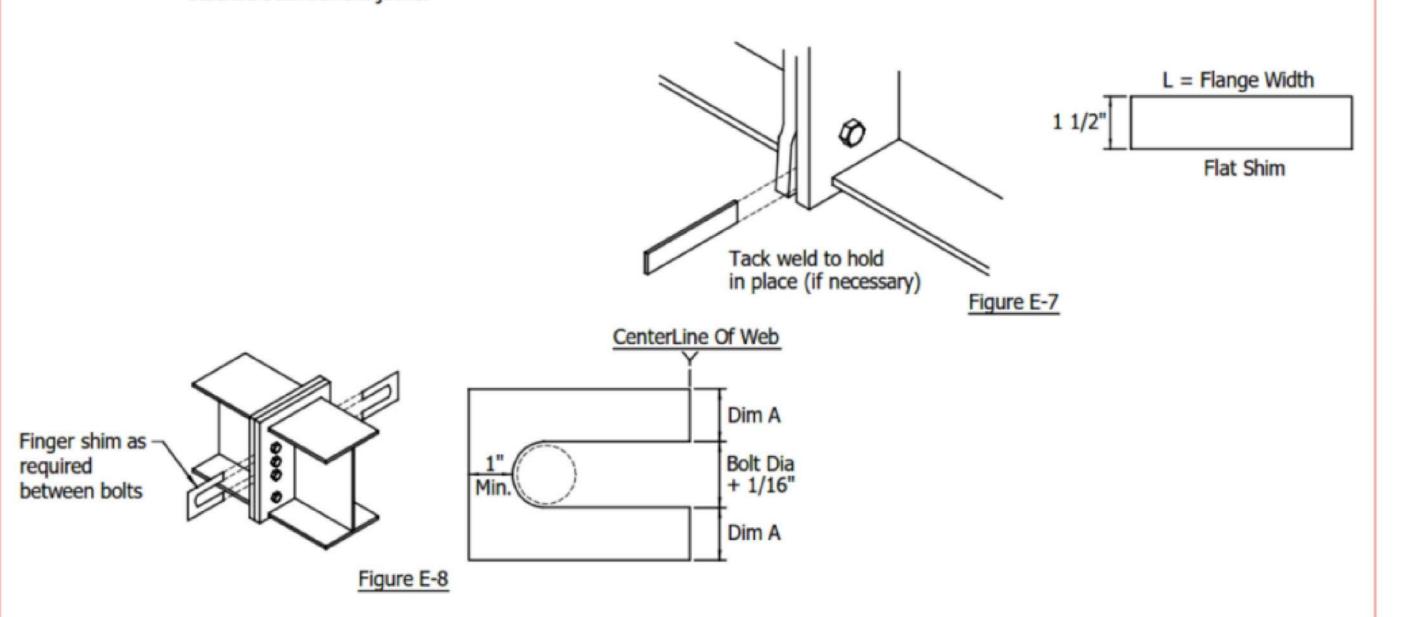
*SEE BUTLER'S WIDESPAN INSTALLATION GUIDE (3586) - SECTION E (BOLT TIGHTENING E-4) FOR SHIMMING GUIDELINES (SKETCHES PROVIDED TO RIGHT FOR REFERENCE).

*SHIMMING OF CONNECTIONS SHOULD BE EXPECTED TO MAINTAIN KEY DIMENSIONS SUCH AS CLEARANCE, HEIGHT, AND PLUMBNESS OF THE ERECTED BUILDING. AS NOTED ABOVE SHIMS ARE NORMALLY PROVIDED BY THE ERECTOR, BUT MAY BE ORDERED UPON REQUEST BY CONTACTING YOUR PROJECT MANAGER.

CAMBER DL+CG IS INCLUDED ON THE FRAMES OF THIS PROJECT. ALL DIMENSIONS ARE FROM FINISH FLOOR TO THE TOP OF THE RAFTER SPLICE PLATE AT THE RIDGE. NEGATIVE DEFLECTIONS ARE DOWNWARD, POSITIVE DEFLECTIONS OR CAMBER ARE UPWARD. HEIGHTS ABOVE FINISH FLOOR ARE ROUNDED TO NEAREST SIXTEENTH.

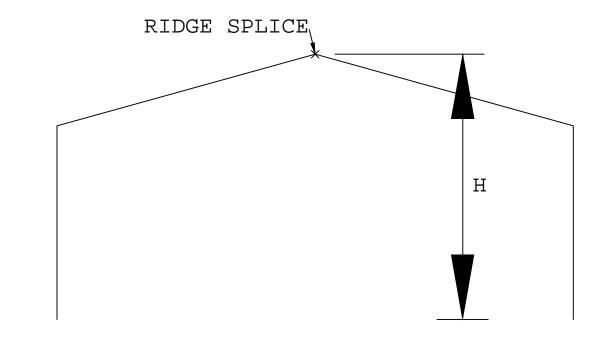
On occasion shims may be required to fill joint gaps, level beams, accommodate varying depth of members, level frame bases, adjust for differential frame deflection, etc. Some shimming must be anticipated by the erector and is considered by the Code of Standard Practice to be part of the erection contract. Shims are provided by the erector.

Shimming between gaps at flanges is accomplished with thin flat plates stacked between the joints.



- Dim A = 1". Shim dimensions may vary from those shown if required for fit up
- · Multiple shims may be stacked to fill required gap.
- · Gaps greater than a 1/4" require engineering review. Contact your Project Manager.

THEORETIC	AL SHAPE:	CAMBERED	SHAPE:	DEFLECTED	SHAPE:	DEFLECTE	D SHAPE:	DEFLECTED	SHAPE:
AS MO	DELED	AS FABRI	CATED	SELF WE	IGHT	DEAD	LOAD	DEAD + COLLA	TERAL LOAD
GRID	HO (FT) AFF	(IN) FROM CAMBER	H1 (FT) AFF	(IN) FROM LOAD	H2 (FT) AFF	(IN) FROM LOAD	H3 (FT) AFF	(IN) FROM LOAD	H4 (FT) AFF
FL 2&3	25'-9 3/4"	3.0000	26'-0 3/4"	-0.9000	25'-11 7/8"	-0.9000	25'-11 7/8"	-2.0000	25'-10 3/4"
FL 3&4	25'-9 3/4"	3.0000	26'-0 3/4"	-0.9000	25'-11 7/8"	-0.9000	25'-11 7/8"	-2.0000	25'-10 3/4"
FL 5&6	25'-9 3/4"	3.0000	26'-0 3/4"	-0.9000	25'-11 7/8"	-0.9000	25'-11 7/8"	-2.0000	25'-10 3/4"
FL 7	25'-9 3/4"	3.0000	26'-0 3/4"	-0.9000	25'-11 7/8"	-0.9000	25'-11 7/8"	-2.0000	25'-10 3/4"

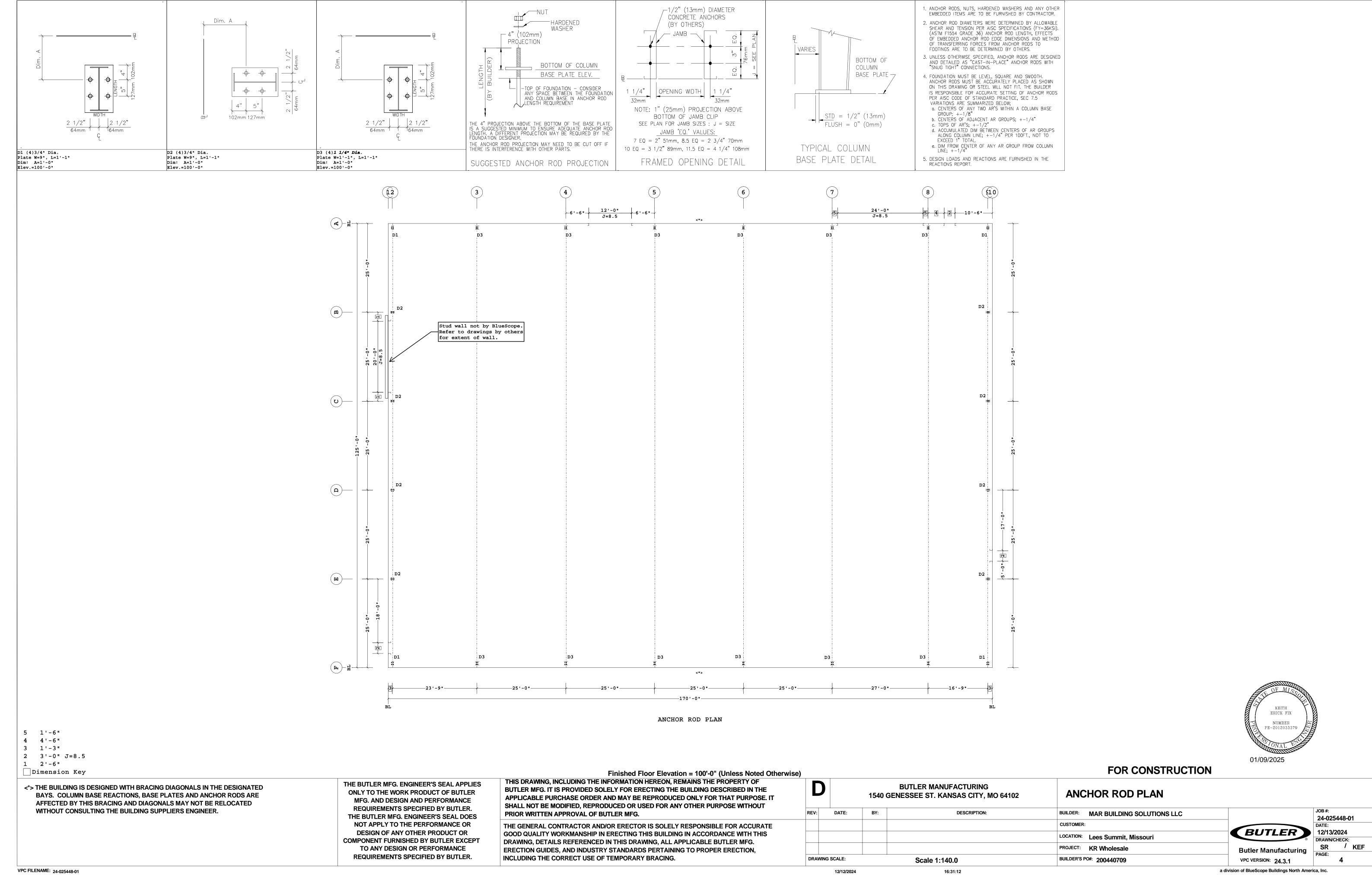


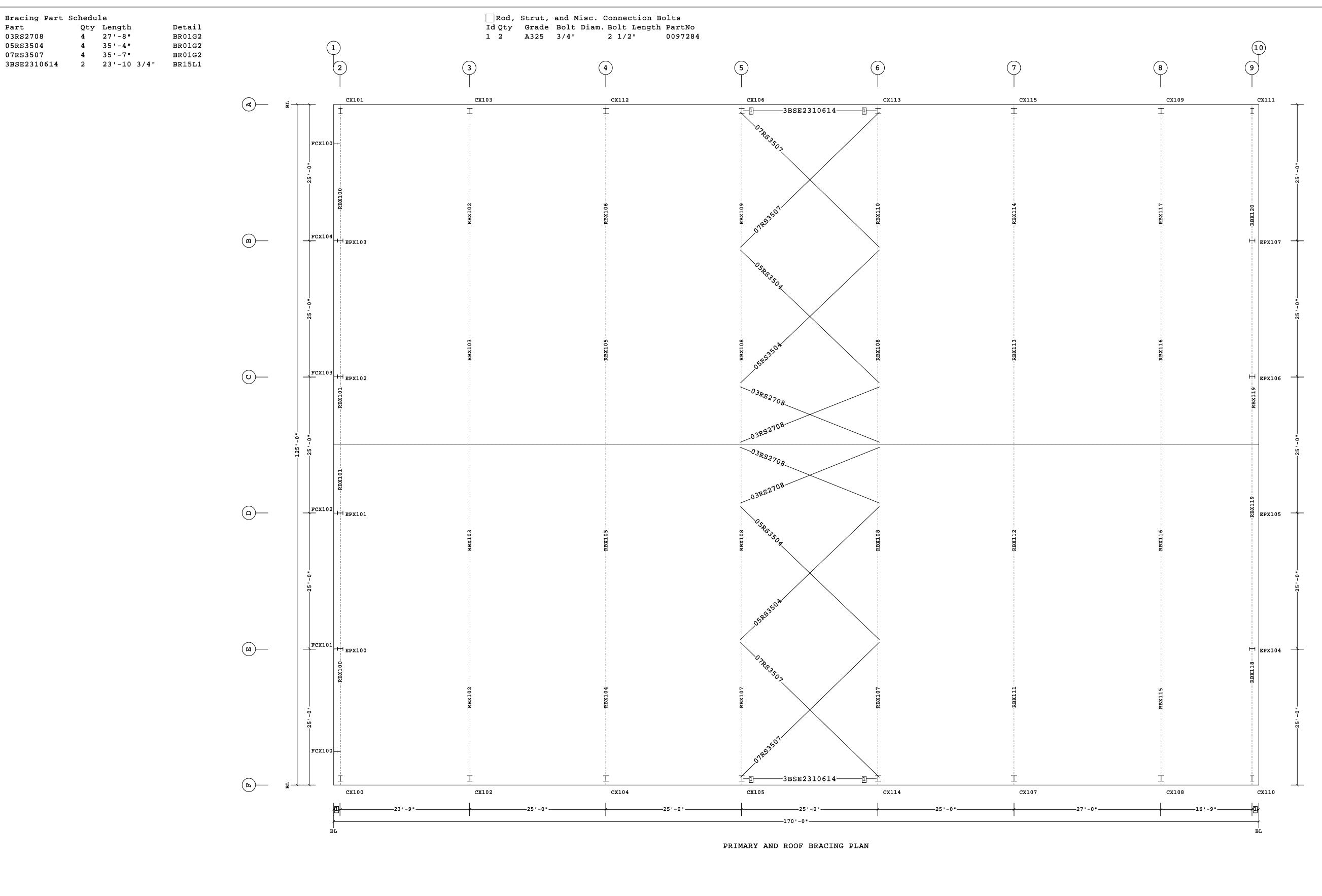


THE BUTLER MFG. ENGINEER'S SEAL APPLIES
ONLY TO THE WORK PRODUCT OF BUTLER
MFG. AND DESIGN AND PERFORMANCE
REQUIREMENTS SPECIFIED BY BUTLER. THE
BUTLER MFG. ENGINEER'S SEAL DOES NOT
APPLY TO THE PERFORMANCE OR DESIGN OF
ANY OTHER PRODUCT OR COMPONENT
FURNISHED BY BUTLER EXCEPT TO ANY
DESIGN OR PERFORMANCE REQUIREMENTS
SPECIFIED BY BUTLER.

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BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102				LARGE CLEARSPAN NOTES		
REV:	DATE:	BY:	DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
				CUSTOMER:	(BUTLER)	DATE:
				LOCATION: Lees Summit, Missouri	BUILER	12.16.2024 DRAWN/CHECK:
				PROJECT: KR Wholesale	Butler Manufacturing	SR /
DRAV	VING SACLE:	<u>'</u>	•	BUILDER'S PO#: 200440709	VPC VERSION:	PAGE: 3a
3AVE	DATE:		SAVE TIME:	LAST SAVED BY: a d	ivision of BlueScope Buildings North America	, Inc.





FOR CONSTRUCTION

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.

2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.

THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE

REQUIREMENTS SPECIFIED BY BUTLER.

Shape Name = Building - Shape 1
THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF BUTLER MFG.

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	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102				
REV:	DATE:	BY:	DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC	J0 2
				CUSTOMER:	DA
				LOCATION: Lees Summit, Missouri	BUTLER 1/10 DR
				PROJECT: KR Wholesale	Butler Manufacturing
DRAW	ING SCALE:	1	NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1

24-025448-01 1/14/2024 DRAWN/CHECK: LDCM / GL VPC VERSION: 24.3.1

1 1'-3"

Dimension Key

12/18/2024

11:08:22

Bolt Connection & Plate Schedule Frame Member Schedule Part Mem Width Thick WebThk. Depth1 Approx.Lgth Approx.Weight Id Qty Grade Bolt Bolt Plate Rows Rows PartNo Depth2 Dia. Length Thick. Out In FCX104 30001 5.0000 .2500 .1345 8 1/2" 6'-10 3/4" 90# A 8 A325 1/2" 1 1/2" - - - 49080

ENDPOST CROSS SECTION AT [B-1]

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS,

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REQUIREMENTS SPECIFIED BY BUTLER.

Shape Name = Building - Shape 1 Wall 1, Frame 1
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		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			ENDPOST CROSS SECTION AT [B-1]		
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		
				CUSTOMER	:	COUTLES .	
				LOCATION:	Lees Summit, Missouri	(BUTLER)	
				PROJECT:	KR Wholesale	Butler Manufacturing	
DRAW	VING SCALE:		NTS	BUILDER'S	PO#: 200440709	VPC VERSION: 24.3.1	

VPC FILENAME: 24-025448-01

9:05:29

12/19/2024

24-025448-01

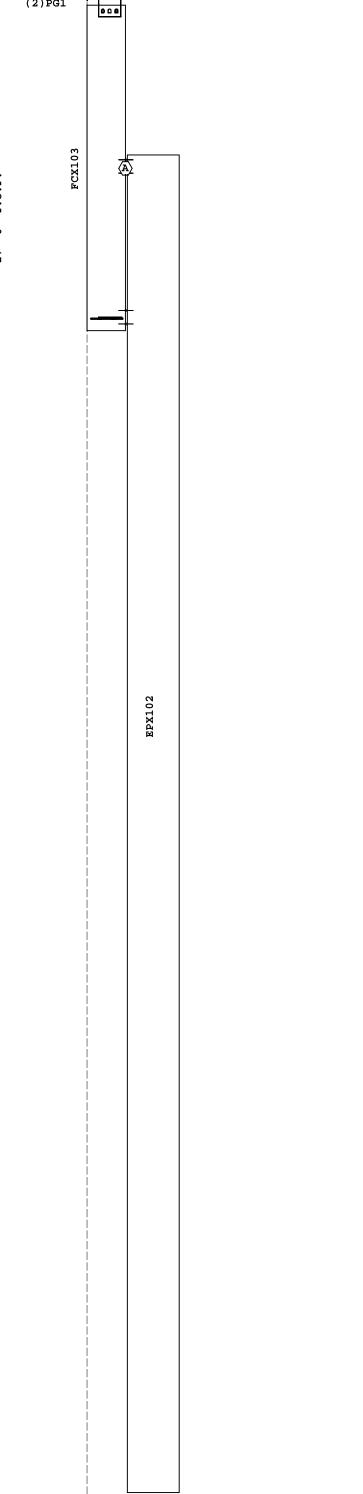
1/14/2024

DRAWN/CHECK:

Frame Member Schedule

Part Mem Width Thick WebThk. Depth1 Depth2 Approx.Lgth Approx.Weight 79#

Results of the content of the



KEITH
ERICK FIX

NUMBER
PE-2012033379

ENDPOST CROSS SECTION AT [C-1]

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120)
W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS,
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COMPONENT FURNISHED BY BUTLER EXCEPT
TO ANY DESIGN OR PERFORMANCE

REQUIREMENTS SPECIFIED BY BUTLER.

Shape Name = Building - Shape 1 Wall 1, Frame 2

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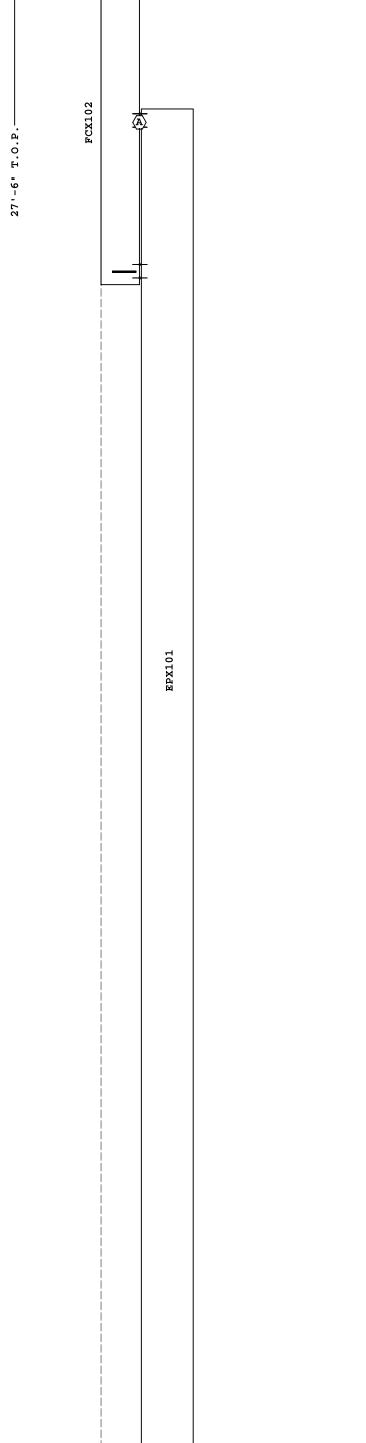
FOR CONSTRUCTION	
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D		1540	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	ENDPOST CROSS SECTION AT [C-1]			
REV:	DATE:	BY:	DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC	Jo		
				CUSTOMER:	D		
				LOCATION: Lees Summit, Missouri	BUTLER 1		
				PROJECT: KR Wholesale	Butler Manufacturing		
DRAWI	NG SCALE:	-	NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1		

12/19/2024

9:05:30

Bolt Connection & Plate Schedule Frame Member Schedule Part Mem Width Thick WebThk. Depth1 Id Qty Grade Bolt Bolt Plate Rows Rows PartNo Depth2 Approx.Lgth Approx.Weight Dia. Length Thick. Out In FCX102 30001 5.0000 .2500 .1345 8 1/2" 5'-11 1/4" 74# A 8 A325 1/2" 1 1/2" - - - 49080



ENDPOST CROSS SECTION AT [D-1]

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS,

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Shape Name = Building - Shape 1 Wall 1, Frame 3
THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF BUTLER MFG.

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FOR	CONSTRUCTION	

					FOR CONSTRUCTION		
D		1540	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	END			
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
				CUSTOMER	:		DATE:
				LOCATION:	Lees Summit, Missouri	BUTLER	1/14/2024 DRAWN/CHECK:
				PROJECT:	KR Wholesale	Butler Manufacturing	LDCM / GL
DRAWING	G SCALE:		NTS	BUILDER'S	PO#: 200440709	VPC VERSION: 24.3.1	PAGE:

12/19/2024

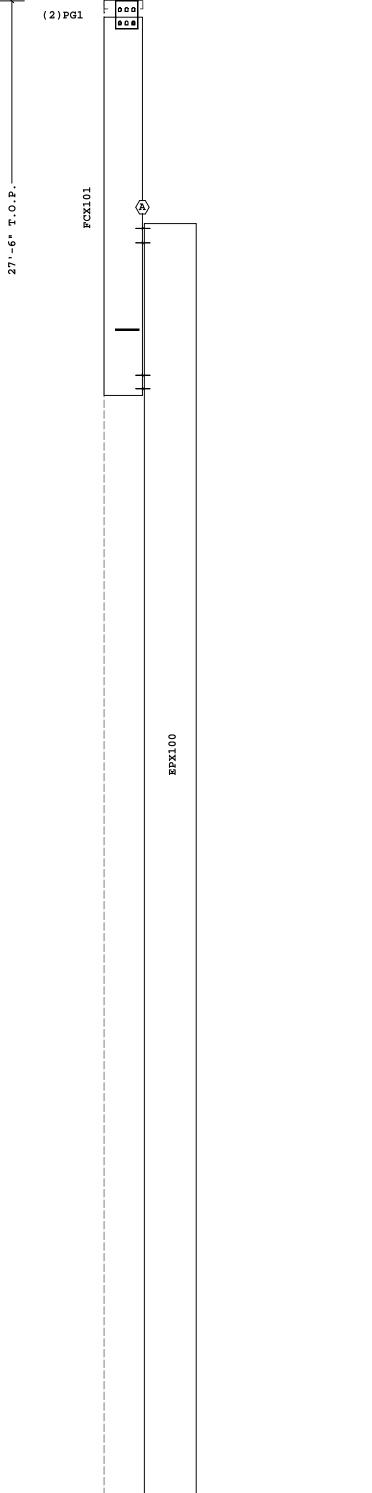
Frame Member Schedule

Part Mem Width Thick WebThk. Depth1 Depth2 Approx.Light Approx.Weight

FCX101 30001 5.0000 .2500 .1345 8 1/2" 8 1/2" 6'-10 3/4" 86#

Dia. Length Thick. Out In

A 8 A325 1/2" 1 1/2" - - - 49080



KEITH
ERICK FIX

NUMBER
PE-2012033379

ENDPOST CROSS SECTION AT [E-1]

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120)
W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS,
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UNLESS NOTED OTHERWISE.

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TO ANY DESIGN OR PERFORMANCE
REQUIREMENTS SPECIFIED BY BUTLER.

Shape Name = Building - Shape 1 Wall 1, Frame 4
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	D		1540	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	ENDPOST CROSS SECTION AT [E-1]	
F	REV:	DATE:	BY:	DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC		JOB#: 24-025448-01
					CUSTOMER:		DATE:
					LOCATION: Lees Summit, Missouri	BUTLER	1/14/2024 DRAWN/CHECK:
T					PROJECT: KR Wholesale	Butler Manufacturing	LDCM / GL
h	DRAWING	G SCALE: NTS		NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1	PAGE:

12/19/2024

9:05:32

Frame Member Schedule Part Mem Width Thick WebThk. Depth1 Approx.Lgth Approx.Weight Depth2 FCX100 30001 6.0000 .2500 .1345 8 1/2" 4'-2 5/16" 90#

Bolt Connection & Plate Schedule Id Qty Grade Bolt Bolt Plate Rows Rows PartNo Dia. Length Thick. Out In A 4 A325 3/4" 2 1/2" 5/8" 1 1 0097284

ERECTION NOTE: For parapet post and support beam locations refere to the Roof Secondary Plan. Support beam information is shown in the Roof Secondary Plan.

(2)PG1

SUPPORT BEAM

ENDPOST CROSS SECTION ON SUPPORT BEAM (SBX)

BETWEEN A-B & E-F

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE. 2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME

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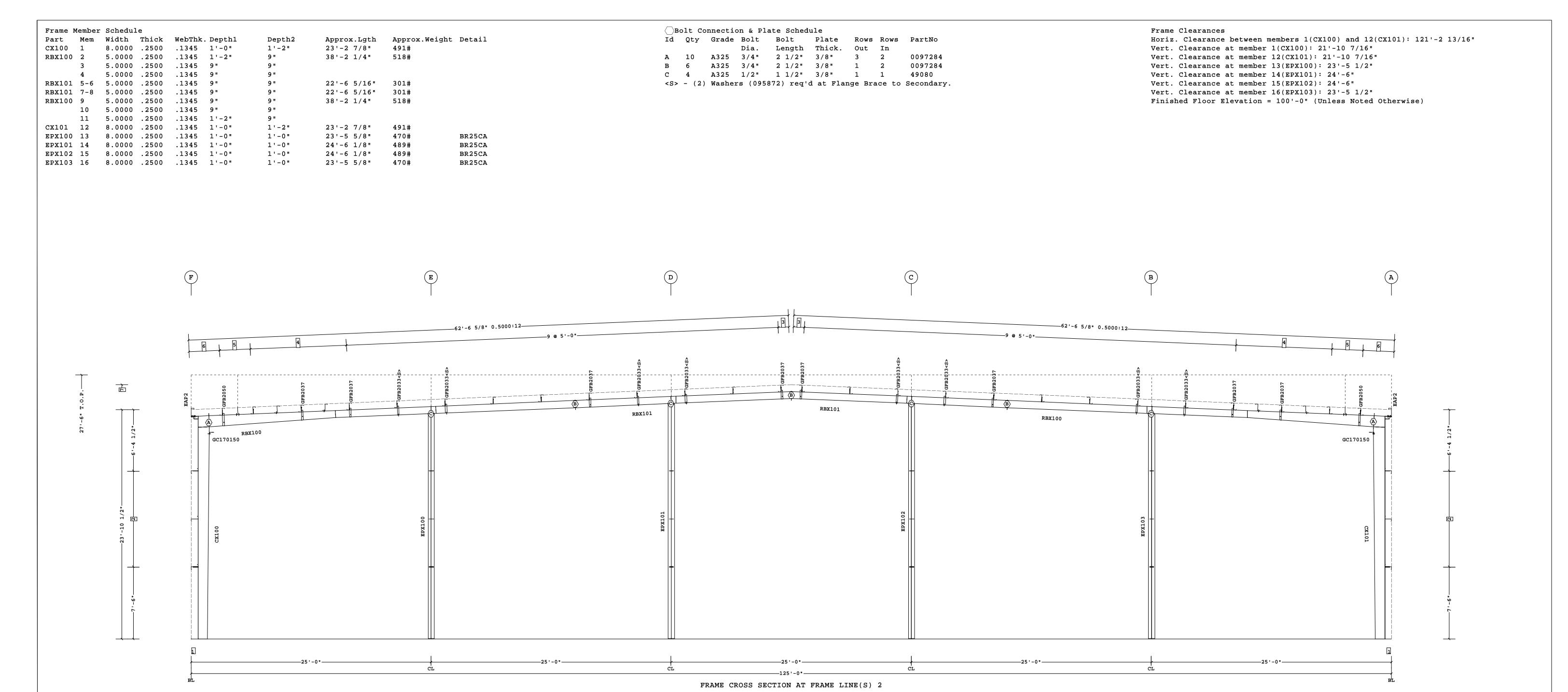
Shape Name = Building - Shape 1 Wall 1, Frame 1
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FOR CONSTRUCTION

						FOR CONSTRUCTION		
	D		1540	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	END	POST CROSS SECTION ON S	вх	
R	REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
					CUSTOMER:	:		DATE:
					LOCATION:	Lees Summit, Missouri	(BUTLER)	1/14/2024 DRAWN/CHECK:
r					PROJECT:	KR Wholesale	Butler Manufacturing	LDCM / GL
DRAWING SCALE: NTS						PO#: 200440709	VPC VERSION: 24.3.1	PAGE: 10

9:05:19



7 26'-5 3/4" Ridge Ht. 6 3'-2 5/8" 5 2 @ 1'-7 5/16" 4 4 @ 2'-6" 3 1'-1 3/8" 2 2 @ 5'-0"

UNLESS NOTED OTHERWISE.

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120)

SIDE OF THE WEB AS THE HILLSIDE WASHER.

W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS,

SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS,

2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME

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REQUIREMENTS SPECIFIED BY BUTLER.

COMPONENT FURNISHED BY BUTLER EXCEPT

Shape Name = Building - Shape 1 Wall 4, Frame 1 THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF BUTLER MFG.

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FOR CONSTRUCTION

BUILDER: MAR BUILDING SOLUTIONS LLC

Lees Summit, Missouri

PROJECT: KR Wholesale

BUILDER'S PO#: 200440709

01/09/2025 FRAME CROSS SECTION AT FRAME LINE(S) 2 (BUTLER)

24-025448-01 1/14/2024 LDCM / GL **Butler Manufacturing** VPC VERSION: 24.3.1

VPC FILENAME: 24-025448-01

1 8 1/2"

Dimension Key

NTS

DATE:

12/18/2024

DRAWING SCALE:

BUTLER MANUFACTURING

1540 GENESSEE ST. KANSAS CITY, MO 64102

DESCRIPTION:

Frame Membe	Frame Member Schedule													
Part Mem	Width Thick	WebThk. Depth1	Depth2	Approx.Lgth	Approx.Weight	Id	Qty	Grade	Bolt	Bolt	Plate	Rows	Rows	PartNo
CX102 1	12.0000 .5000	.2500 1'-0"	4'-2"	23'-4 5/16"	1856#				Dia.	Length	Thick.	Out	In	
RBX102 2	6.0000 .6250	.3125 4'-4"	3'-4"	22'-10 3/16"	1445#	A	12	A325	1 "	3 1/2"	5/8"	4	2	0097288
3	6.0000 .5000	.1875 3'-4"	2'-4"			В	8	A325	3/4"	2 1/2"	1/2"	2	2	0097284
RBX103 4	6.0000 .3750	.1644 2'-4"	2 ' - 4 "	35'-0"	1479#	C	12	A325	3/4"	2 1/2"	1/2"	2	4	0097284
5	6.0000 .6250	.1875 2'-4"	2'-10"			<s></s>	- (2)	Washer	s (0958	872) req'o	d at Flan	nge Bra	ace to	Secondary.
RBX103 6	6.0000 .6250	.1875 2'-4"	2'-10"	35'-0"	1479#									
7	6.0000 .3750	.1644 2'-4"	2'-4"											

22'-10 3/16" 1445#

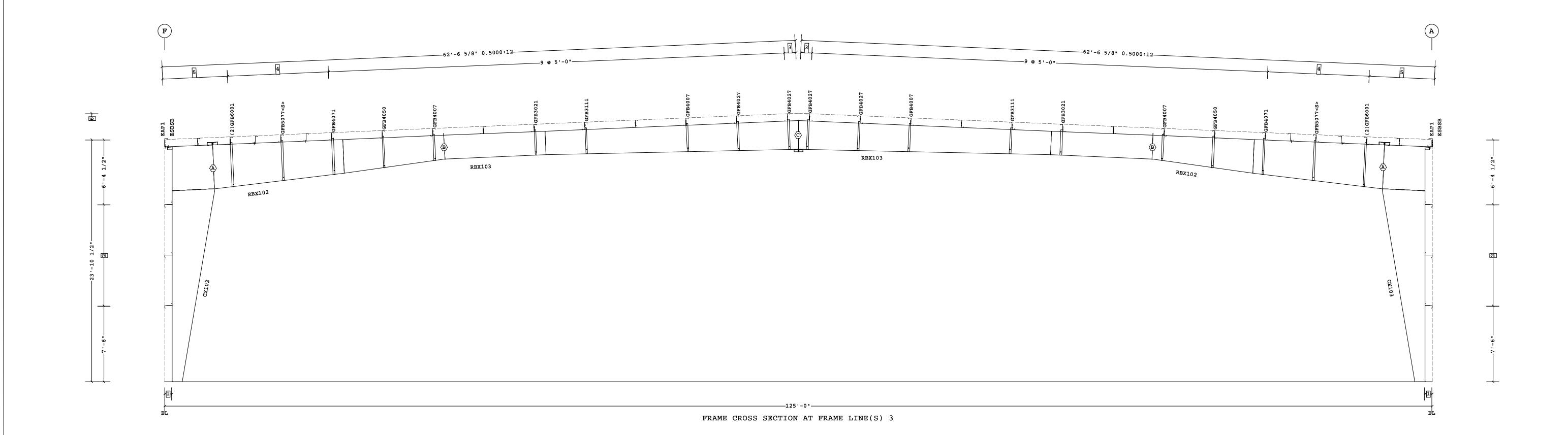
23'-4 5/16" 1856#

3'-4"

4'-2"

Frame Clearances
Horiz. Clearance between members 1(CX102) and 10(CX103): 115'-2 3/4"
Vert. Clearance at member 1(CX102): 18'-9 1/4"
Vert. Clearance at member 10(CX103): 18'-9 1/4"

Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



6 26'-5 3/4" Ridge Ht.

5 2 @ 3'-2 5/8" 4 4 @ 2'-6"

3 1'-1 3/8"

2 2 @ 5'-0"

1 8 1/2"

Dimension Key

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120)
W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS,
SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS,
UNLESS NOTED OTHERWISE.

2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.

6.0000 .5000 .1875 3'-4"

6.0000 .6250 .3125 4'-4"

CX103 10 12.0000.5000 .2500 1'-0"

THE BUTLER MFG. ENGINEER'S SEAL APPLIES
ONLY TO THE WORK PRODUCT OF BUTLER
MFG. AND DESIGN AND PERFORMANCE
REQUIREMENTS SPECIFIED BY BUTLER.
THE BUTLER MFG. ENGINEER'S SEAL DOES
NOT APPLY TO THE PERFORMANCE OR
DESIGN OF ANY OTHER PRODUCT OR
COMPONENT FURNISHED BY BUTLER EXCEPT
TO ANY DESIGN OR PERFORMANCE

REQUIREMENTS SPECIFIED BY BUTLER.

Shape Name = Building - Shape 1 Wall 4, Frame 2
THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF
BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE
APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT
SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT
PRIOR WRITTEN APPROVAL OF BUTLER MFG.

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

KEITH ERICK FIX
NUMBER PE-2012033379
ONAL
01/09/2025

FOR CONSTRUCTION

	D		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102	FRAME CROSS SECTION AT FRA	ME LINE(S) 3
F	REV:	DATE:	BY: DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC	
				CUSTOMER:	
ľ				LOCATION: Lees Summit, Missouri	BUTLER
				PROJECT: KR Wholesale	Butler Manufacturing
	DRAWING	SCALE:	NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1

12/18/2024

24-025448-01

1/14/2024

DRAWN/CHECK:

Frame N	ame Member Schedule									Bolt Connection & Plate Schedule							
Part	Mem	Width Thick	WebThk	. Depth1	Depth2	Approx.Lgth	Approx.Weight	Id	Ç)ty	Grade	Bolt	Bolt	Plate	Rows	Rows	PartNo
CX104	1	12.0000 .5000	.2500	1'-0"	4'-2"	23'-4 5/16"	1873#					Dia.	Length	Thick.	Out	In	
RBX104	2	6.0000 .6250	.3125	4'-4"	3'-4"	22'-10 1/16"	1471#	A	1	L O	A325	1 1/8"	4 "	3/4"	4	1	0097289
	3	6.0000 .5000	.1875	3'-4"	2'-4"			В	1	L 2	A325	3/4"	2 1/2"	3/8"	4	2	0097284
RBX105	4	6.0000 .3750	.1644	2'-4"	2 ' - 4 "	35'-0"	1475#	С	1	L 2	A325	3/4"	2 1/2"	1/2"	2	4	0097284
	5	6.0000 .6250	.1875	2'-4"	2'-10"			<s></s>	> -	(2)	Washer	s (0958	72) req'o	d at Flan	ige Bra	ce to	Secondary.
RBX105	6	6.0000 .6250	.1875	2'-4"	2'-10"	35'-0"	1475#										
	7	6.0000 .3750	.1644	2'-4"	2'-4"												

TO ANY DESIGN OR PERFORMANCE

REQUIREMENTS SPECIFIED BY BUTLER.

22'-10 1/16" 1471#

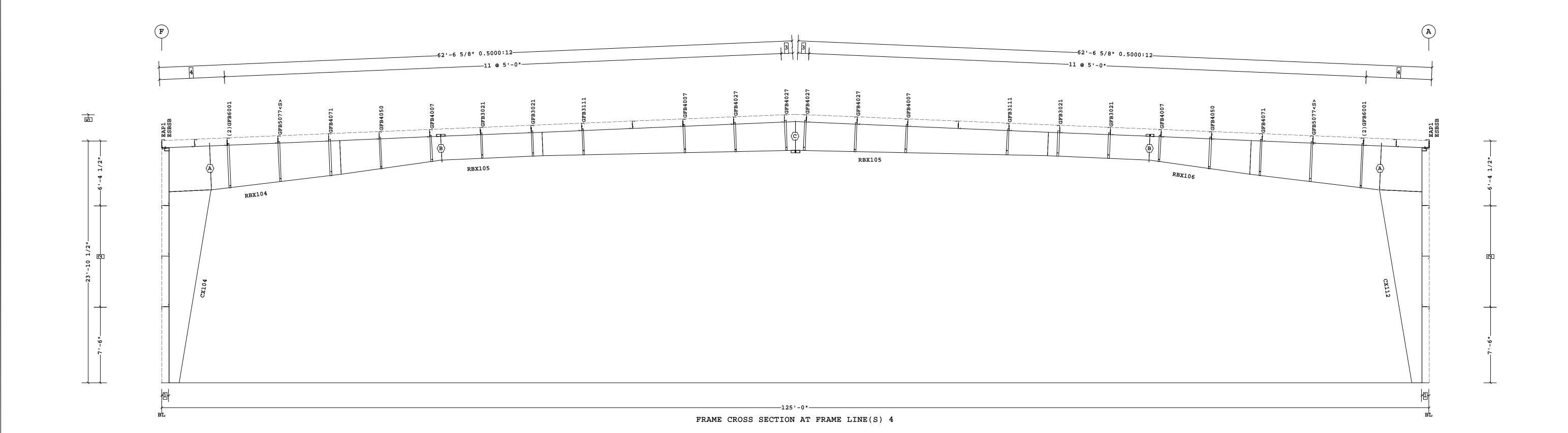
23'-4 5/16" 1873#

3'-4"

4'-2"

Frame Clearances
Horiz. Clearance between members 1(CX104) and 10(CX112): 115'-2 15/16"
Vert. Clearance at member 1(CX104): 18'-11 7/8"

Vert. Clearance at member 10(CX112): 18'-11 7/8"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



5 26'-5 3/4" Ridge Ht. 4 2 @ 3'-2 5/8"

6.0000 .5000 .1875 3'-4"

6.0000 .6250 .3125 4'-4"

CX112 10 12.0000.5000 .2500 1'-0"

3 1'-1 3/8"

2 2 @ 5'-0"

1 8 1/2"

Dimension Key

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120)
W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS,
SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS,
UNLESS NOTED OTHERWISE.
2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME
SIDE OF THE WEB AS THE HILLSIDE WASHER.

THE BUTLER MFG. ENGINEER'S SEAL APPLIES
ONLY TO THE WORK PRODUCT OF BUTLER
MFG. AND DESIGN AND PERFORMANCE
REQUIREMENTS SPECIFIED BY BUTLER.
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ONLY TO THE WORK PRODUCT OF REQUIREMENTS SPECIFIED BY BUTLER.
THE BUTLER MFG. ENGINEER'S SEAL APPLIES

Shape Name = Building - Shape 1 Wall 4, Frame 3
THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF
BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE
APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT
SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT
PRIOR WRITTEN APPROVAL OF BUTLER MFG.

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

FOR CONSTRUCTION

D		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102	FRAME CROSS SECTION AT FRA	ME LINE(S) 4
REV:	DATE:	BY: DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC	
			CUSTOMER:	
			LOCATION: Lees Summit, Missouri	BUTLER
			PROJECT: KR Wholesale	Butler Manufacturing
DRAWIN	IG SCALE:	NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1

VPC FILENAME: 24-025448-01

12/18/2024

24-025448-01

1/14/2024

DRAWN/CHECK:

Frame 1	rame Member Schedule																
Part	Mem	Width Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	:	Id	Qty	Grade	Bolt	Bolt	Plate	Rows	Rows	PartNo
CX105	1	12.0000 .5000	.2500	1'-0"	4'-2"	23'-4 5/16"	1881#					Dia.	Length	Thick.	Out	In	
RBX107	2	6.0000 .6250	.3125	4 ' - 4 "	3'-4"	22'-10 1/16"	1471#	i	A	10	A325	1 1/8"	4 "	3/4"	4	1	0097289
	3	6.0000 .5000	.1875	3 ' - 4 "	2'-4"			1	В	12	A325	3/4"	2 1/2"	3/8"	4	2	0097284
RBX108	4	6.0000 .3750	.1644	2 ' - 4 "	2'-4"	35'-0"	1475#		C	12	A325	3/4"	2 1/2"	1/2"	2	4	0097284
	5	6.0000 .6250	.1875	2 ' - 4 "	2'-10"				<s></s>	- (2)	Washer	s (0958	72) req'o	d at Flan	ge Bra	ce to	Secondary.
RBX108	6	6.0000 .6250	.1875	2 ' - 4 "	2'-10"	35'-0"	1475#										
	7	6.0000 .3750	.1644	2 ' - 4 "	2'-4"												

22'-10 1/16" 1470#

23'-4 5/16" 1881#

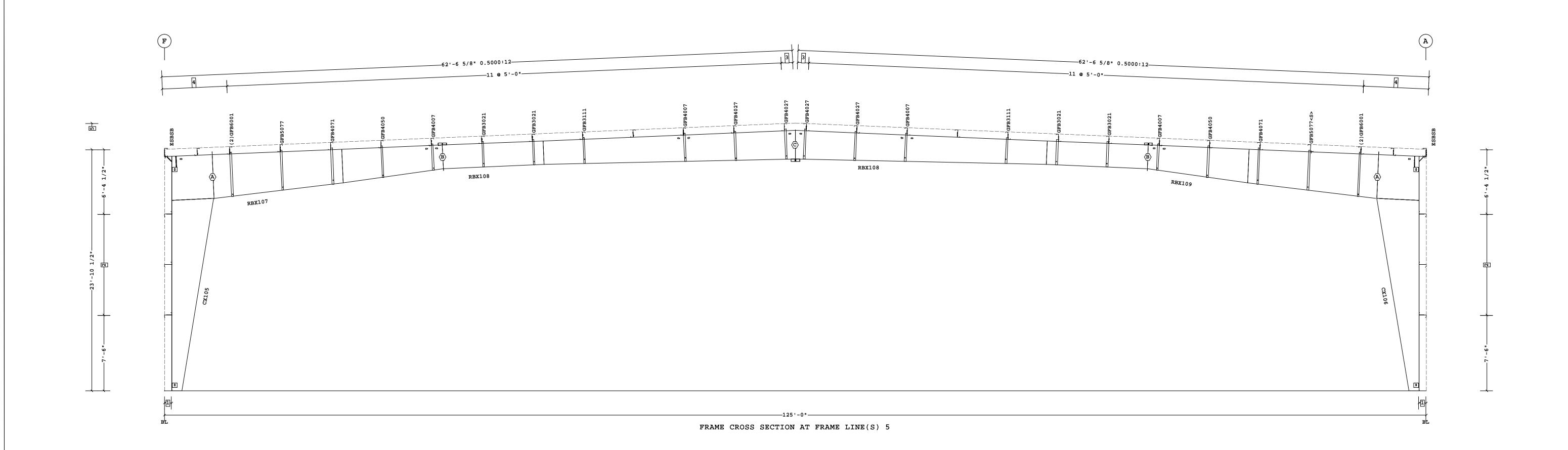
3'-4"

4'-2"

Frame Clearances Horiz. Clearance between members 1(CX105) and 10(CX106): 115'-2 15/16" Vert. Clearance at member 1(CX105): 18'-11 7/8"

Vert. Clearance at member 10(CX106): 18'-11 7/8"

Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



5 26'-5 3/4" Ridge Ht.

4 2 @ 3'-2 5/8" 3 1'-1 3/8" 2 2 @ 5'-0"

1 8 1/2" Dimension Key

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.

6.0000 .5000 .1875 3'-4"

6.0000 .6250 .3125 4'-4"

CX106 10 12.0000.5000 .2500 1'-0"

2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.

THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE

REQUIREMENTS SPECIFIED BY BUTLER.

Shape Name = Building - Shape 1 Wall 4, Frame 4 THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF BUTLER MFG.

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EOD CONSTDUCTION

				FOR CONSTRUCTION	ON
D		1540 GI	BUTLER MANUFACTURING ENESSEE ST. KANSAS CITY, MO 64102	FRAME CROSS SECTION A	Γ FRAME LINE(S) 5
REV:	DATE:	BY:	DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC	
				CUSTOMER:	
				LOCATION: Lees Summit, Missouri	(BUTLER)
				PROJECT: KR Wholesale	Butler Manufacturing
DRAWI	ING SCALE:		NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1

11:08:34

12/18/2024

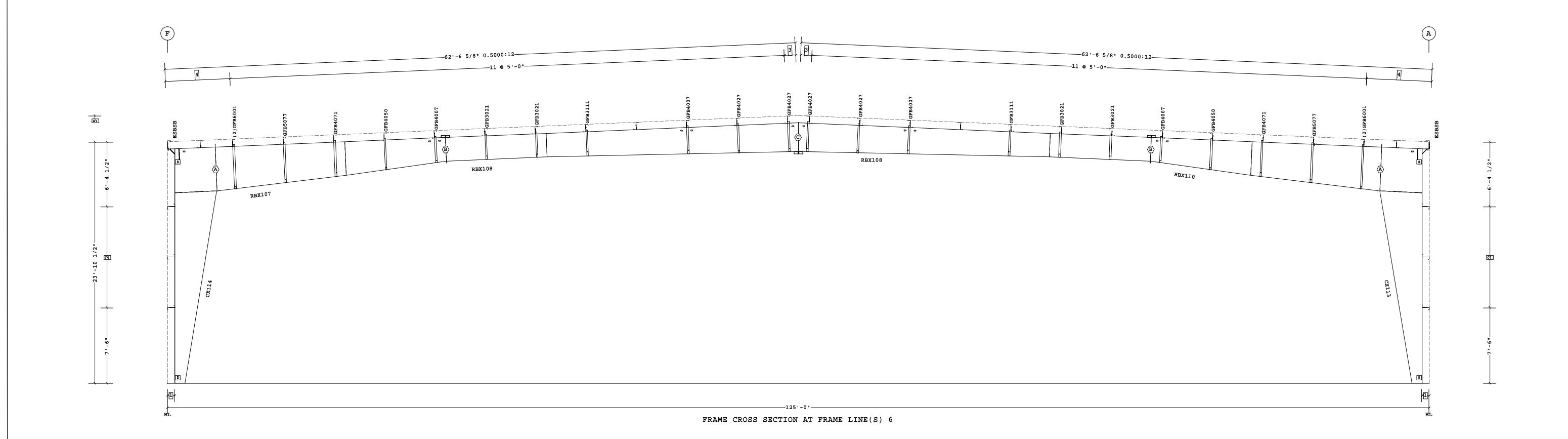
24-025448-01

1/14/2024

DRAWN/CHECK:

Frame M	Member	Schedule						Bolt Connection & Plate Schedule									
Part	Mem	Width Thick	WebThk	. Depth1	Depth2	Approx.Lgth	Approx.Weight	Id	(Qty	Grade	Bolt	Bolt	Plate	Rows	Rows	PartNo
CX114	1	12.0000 .5000	.2500	1'-0"	4'-2"	23'-4 5/16"	1881#					Dia.	Length	Thick.	Out	In	
RBX107	2	6.0000 .6250	.3125	4'-4"	3'-4"	22'-10 1/16"	1471#	А		10	A325	1 1/8"	4 "	3/4"	4	1	0097289
	3	6.0000 .5000	.1875	3'-4"	2 ' - 4 "			В		12	A325	3/4"	2 1/2"	3/8"	4	2	0097284
RBX108	4	6.0000 .3750	.1644	2'-4"	2 ' - 4 "	35'-0"	1475#	С		12	A325	3/4"	2 1/2"	1/2"	2	4	0097284
	5	6.0000 .6250	.1875	2'-4"	2'-10"												
RBX108	6	6.0000 .6250	.1875	2'-4"	2'-10"	35'-0"	1475#										
	7	6.0000 .3750	.1644	2'-4"	2 ' - 4 "												
RBX110	8	6.0000 .5000	.1875	3'-4"	2 ' - 4 "	22'-10 1/16"	1471#										
	9	6.0000 .6250	.3125	4'-4"	3'-4"												
CX113	10	12.0000 .5000	.2500	1'-0"	4'-2"	23'-4 5/16"	1881#										

Frame Clearances Horiz. Clearance between members 1(CX114) and 10(CX113): 115'-2 15/16" Vert. Clearance at member 1(CX114): 18'-11 7/8" Vert. Clearance at member 10(CX113): 18'-11 7/8" Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



5 26'-5 3/4" Ridge Ht.

4 2 @ 3'-2 5/8" 3 1'-1 3/8" 2 2 @ 5'-0"

1 8 1/2" Dimension Key

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.

2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.

THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE

REQUIREMENTS SPECIFIED BY BUTLER.

Shape Name = Building - Shape 1 Wall 4, Frame 5 THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF BUTLER MFG.

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

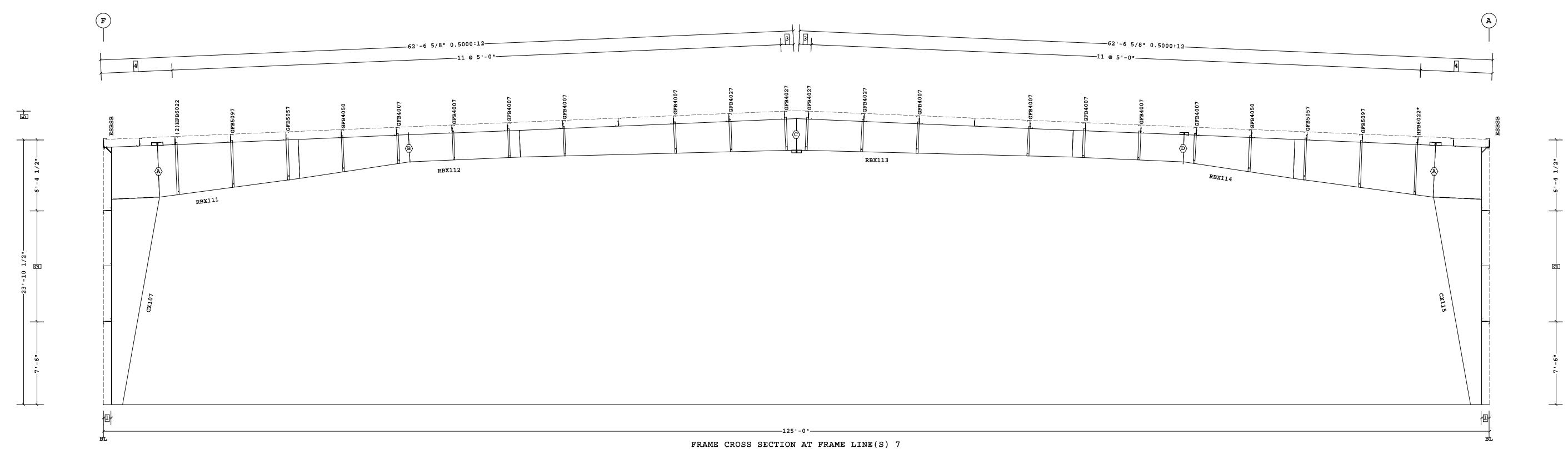
FOR	CONSTRUCTION	
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D		1540	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	FRAME CROSS SECTION AT FRAME	FRAME CROSS SECTION AT FRAME LINE(S) 6					
REV:	DATE:	BY:	DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01				
				CUSTOMER:		DATE:				
				LOCATION: Lees Summit, Missouri	BUTLER	1/14/2024 DRAWN/CHECK:				
				PROJECT: KR Wholesale	Butler Manufacturing	LDCM / GL				
DRAWIN	G SCALE:	I	NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1	PAGE: 15				

12/18/2024

Frame Membe	r Schedule						Bolt Connection & Plate Schedule								
Part Mem	Width Thick	WebThk	. Depth1	Depth2	Approx.Lgth	Approx.Weight	Id	Qt:	y Grade	Bolt	Bolt	Plate	Rows	Rows	PartNo
CX107 1	12.0000 .5000	.2500	1'-0"	4'-4"	23'-4 3/8"	1888#				Dia.	Length	Thick.	Out	In	
RBX111 2	6.0000 .6250	.3125	4'-8"	3'-6"	22'-8 5/16"	1486#	A	12	A325	1"	3 1/2"	5/8"	4	2	0097288
3	6.0000 .5000	.1875	3'-6"	2'-5"			В	8	A325	3/4"	2 1/2"	1/2"	2	2	0097284
RBX112 4	6.0000 .3750	.1644	2'-5"	2'-5"	35'-0"	1494#	C	12	A325	3/4"	2 1/2"	1/2"	2	4	0097284
5	6.0000 .6250	.1875	2'-5"	2'-10"			D	12	A325	3/4"	2 1/2"	3/8"	4	2	0097284
RBX113 6	6.0000 .6250	.1875	2'-5"	2'-10"	35'-0"	1489#									
7	6.0000 .3750	.1644	2'-5"	2'-5"											
RBX114 8	6.0000 .5000	.1875	3'-6"	2'-5"	22'-8 5/16"	1482#									

Frame Clearances Horiz. Clearance between members 1(CX107) and 10(CX115): 114'-10 15/16" Vert. Clearance at member 1(CX107): 18'-7 15/16" Vert. Clearance at member 10(CX115): 18'-7 15/16" Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



GFB or HFB market with * must be installed at the opposite side of the frame.

5 26'-5 3/4" Ridge Ht.

4 2 @ 3'-2 5/8" 3 1'-1 3/8" 2 2 @ 5'-0"

1 8 1/2" Dimension Key

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS,

9 6.0000 .6250 .3125 4'-8"

4 ' - 4 "

23'-4 3/8" 1888#

CX115 10 12.0000.5000 .2500 1'-0"

UNLESS NOTED OTHERWISE. 2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.

THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE

REQUIREMENTS SPECIFIED BY BUTLER.

Shape Name = Building - Shape 1 Wall 4, Frame 6 THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF BUTLER MFG.

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

FOR CONSTRUCTION	

				FOR CONSTRUCTION								
D		_	ER MANUFACTURING EE ST. KANSAS CITY, MO 64102	FRA	ME CROSS SECTION AT F	RAME LINE(S) 7						
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01					
				CUSTOMER	:		DATE:					
				LOCATION:	Lees Summit, Missouri	BUTLER	1/14/2024 DRAWN/CHECK:					
				PROJECT:	KR Wholesale	Butler Manufacturing	LDCM / GL					
DRAW	VING SCALE:		NTS	BUILDER'S F	PO#: 200440709	VPC VERSION: 24.3.1	PAGE: 16					

VPC FILENAME: 24-025448-01

12/18/2024

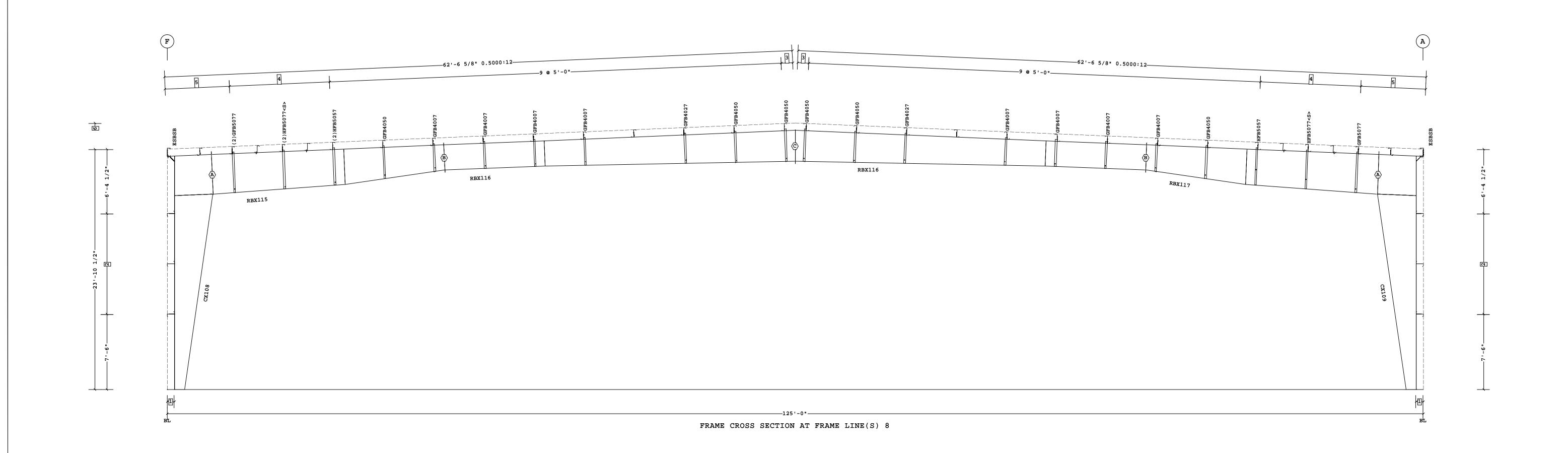
Frame 1	Member	Schedule			Bolt Connection & Plate Schedule												
Part	Mem	Width Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Īd	. (Qty	Grade	Bolt	Bolt	Plate	Rows	Rows	PartNo
CX108	1	12.0000 .5000	.3125	1'-0"	3'-10"	23'-4 1/8"	1955#					Dia.	Length	Thick.	Out	In	
RBX115	2	6.0000 .6250	.3125	3'-11"	3'-6"	23'-1 7/8"	1429#	A		12	A325	1 1/8"	4 "	3/4"	4	2	0097289
	3	6.0000 .3750	.1875	3'-6"	2'-6"			В		10	A325	3/4"	2 1/2"	3/8"	3	2	0097284
RBX116	4	6.0000 .3125	.1644	2'-6"	2'-6"	35'-0"	1380#	C		12	A325	3/4"	2 1/2"	1/2"	2	4	0097284
	5	6.0000 .5000	.1875	2'-6"	3'-1"			<s:< td=""><td>> -</td><td>(2)</td><td>Washer</td><td>rs (0958</td><td>72) req'</td><td>d at Flar</td><td>nge Bra</td><td>ace to</td><td>Secondary.</td></s:<>	> -	(2)	Washer	rs (0958	72) req'	d at Flar	nge Bra	ace to	Secondary.
RBX116	6	6.0000 .5000	.1875	2'-6"	3'-1"	35'-0"	1380#										
	7	6.0000 .3125	.1644	2'-6"	2'-6"												

Frame Clearances

Horiz. Clearance between members 1(CX108) and 10(CX109): 115'-10 15/16"

Vert. Clearance at member 1(CX108): 19'-4 3/4"
Vert. Clearance at member 10(CX109): 19'-4 3/4"

Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



6 26'-5 3/4" Ridge Ht.

SIDE OF THE WEB AS THE HILLSIDE WASHER.

5 2 @ 3'-2 5/8"

4 4 @ 2'-6" 3 1'-1 3/8"

2 2 @ 5'-0"

1 8 1/2"

Dimension Key

 USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120)
 W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.
 SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME

6.0000 .3750 .1875 3'-6"

CX109 10 12.0000.5000 .3125 1'-0"

6.0000 .6250 .3125 3'-11"

2'-6"

3'-6"

3'-10"

23'-1 7/8" 1429#

23'-4 1/8" 1955#

THE BUTLER MFG. ENGINEER'S SEAL APPLIES
ONLY TO THE WORK PRODUCT OF BUTLER
MFG. AND DESIGN AND PERFORMANCE
REQUIREMENTS SPECIFIED BY BUTLER.
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DESIGN OF ANY OTHER PRODUCT OR
COMPONENT FURNISHED BY BUTLER EXCEPT
TO ANY DESIGN OR PERFORMANCE

REQUIREMENTS SPECIFIED BY BUTLER.

Shape Name = Building - Shape 1 Wall 4, Frame 7
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FOR CONSTRUCTION

						FOR CONSTRUCTION	
	D		_	TLER MANUFACTURING SEE ST. KANSAS CITY, MO 64102	FRA	ME CROSS SECTION AT F	RAME LINE(S) 8
f	REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC	
					CUSTOMER	t:	
					LOCATION:	Lees Summit, Missouri	BUTLER
					PROJECT:	KR Wholesale	Butler Manufacturing
	DRAWING	SCALE:		NTS	BUILDER'S	PO#: 200440709	VPC VERSION: 24.3.1

JOB #:
24-025448-01
DATE:
1/14/2024
DRAWN/CHECK:
LDCM / GL
PAGE:
17

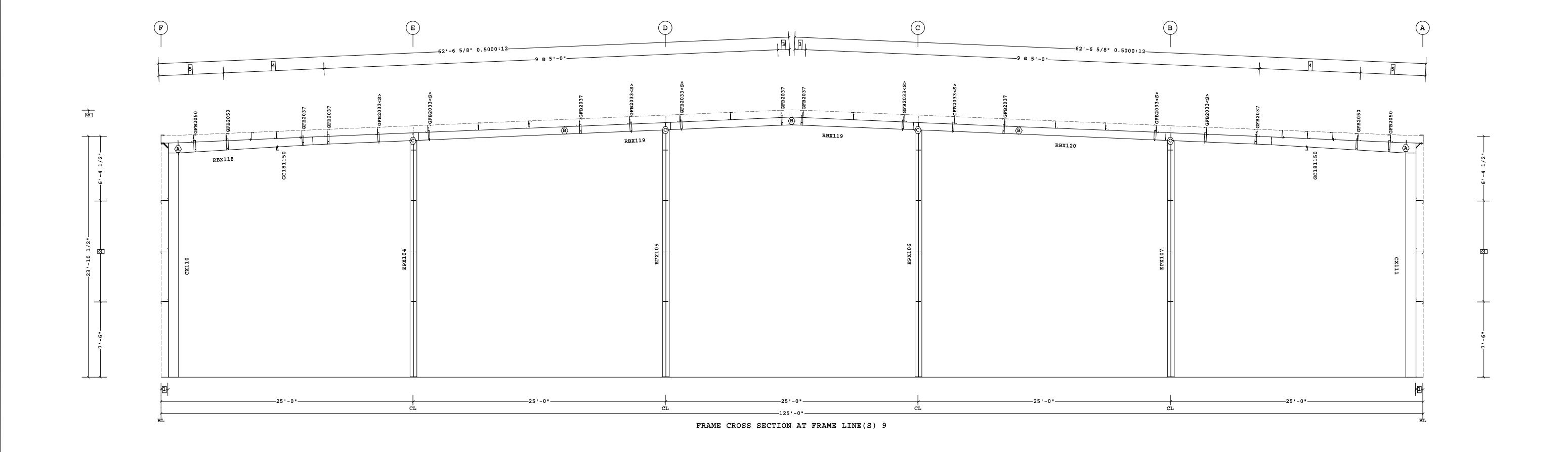
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12/18/2024

Frame Membe	er Schedule					
Part Mem	Width Thick	WebThk. Depth1	Depth2	Approx.Lgth	Approx.Weight	Detail
CX110 1	8.0000 .2500	.1345 1'-0"	1'-0"	23'-2 13/16"	478#	
RBX118 2	5.0000 .1875	.1345 1'-0"	9 "	38'-4 1/16"	433#	
3	5.0000 .1875	.1345 9"	9 "			
4	5.0000 .1875	.1345 9"	9 "			
RBX119 5-6	5.0000 .1875	.1345 9"	9 "	22'-6 7/16"	252#	
RBX119 7-8	5.0000 .1875	.1345 9"	9 "	22'-6 7/16"	252#	
RBX120 9	5.0000 .1875	.1345 9"	9 "	38'-4 1/16"	433#	
10	5.0000 .1875	.1345 9"	9 "			
11	5.0000 .1875	.1345 1'-0"	9 "			
CX111 12	8.0000 .2500	.1345 1'-0"	1'-0"	23'-2 13/16"	478#	
EPX104 13	8.0000 .2500	.1345 1'-0"	1'-0"	23'-5 5/8"	471#	BR25CA
EPX105 14	8.0000 .2500	.1345 1'-0"	1'-0"	24'-6 1/8"	491#	BR25CA
EPX106 15	8.0000 .2500	.1345 1'-0"	1'-0"	24'-6 1/8"	491#	BR25CA
EPX107 16	8.0000 .2500	.1345 1'-0"	1'-0"	23'-5 5/8"	471#	BR25CA

	Bolt Connection & Plate Schedule												
Id	Qty	Grade	Bolt	Bolt	Plate	Rows	Rows	PartNo					
			Dia.	Length	Thick.	Out	In						
A	10	A325	3/4"	2 1/2"	3/8"	3	2	0097284					
В	4	A325	3/4"	2 1/2"	3/8"	1	1	0097284					
C	4	A325	1/2"	1 1/2"	3/8"	1	1	49080					
<s></s>	- (2)	Washer	s (0958	372) req'd	l at Flan	nge Bra	ace to	Secondary.					

Frame Clearances Horiz. Clearance between members 1(CX110) and 12(CX111): 121'-6 13/16" Vert. Clearance at member 1(CX110): 22'-0 5/16" Vert. Clearance at member 12(CX111): 22'-0 5/16" Vert. Clearance at member 13(EPX104): 23'-5 1/2" Vert. Clearance at member 14(EPX105): 24'-6" Vert. Clearance at member 15(EPX106): 24'-6" Vert. Clearance at member 16(EPX107): 23'-5 1/2" Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



6 26'-5 3/4" Ridge Ht.

5 2 @ 3'-2 5/8" 4 4 @ 2'-6"

3 1'-1 3/8" 2 2 @ 5'-0"

1 8 1/2" Dimension Key

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.

2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.

THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE

REQUIREMENTS SPECIFIED BY BUTLER.

Shape Name = Building - Shape 1 Wall 4, Frame 8 THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF BUTLER MFG.

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FOR CONSTRUCTION

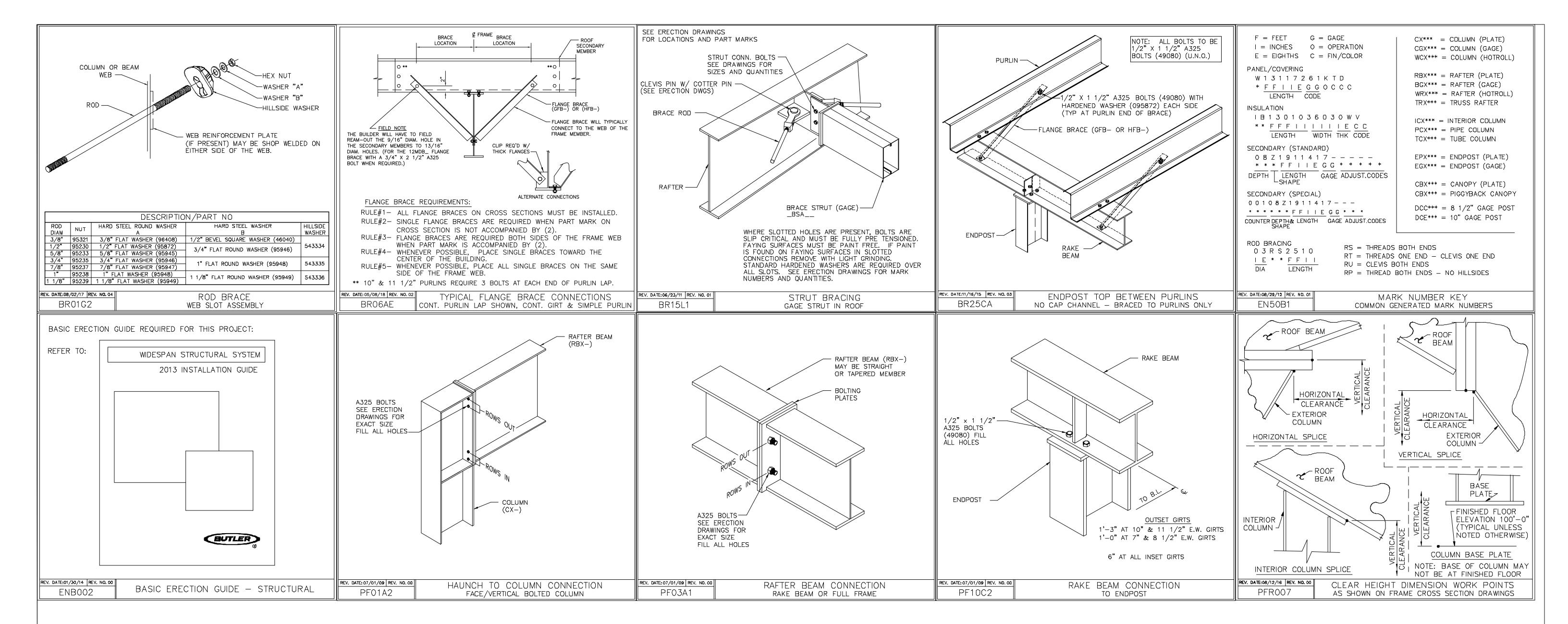
BUTLER MANUFACTURING FRAME CROSS SECTION AT FRAME LINE(S) 9 1540 GENESSEE ST. KANSAS CITY, MO 64102 BUILDER: MAR BUILDING SOLUTIONS LLC DATE: DESCRIPTION: **BUTLER** Lees Summit, Missouri PROJECT: KR Wholesale **Butler Manufacturing** BUILDER'S PO#: 200440709 DRAWING SCALE: NTS **VPC VERSION: 24.3.1**

24-025448-01 1/14/2024 LDCM / GL

12/18/2024

11:08:40

01/09/2025





FOR CONSTRUCTION

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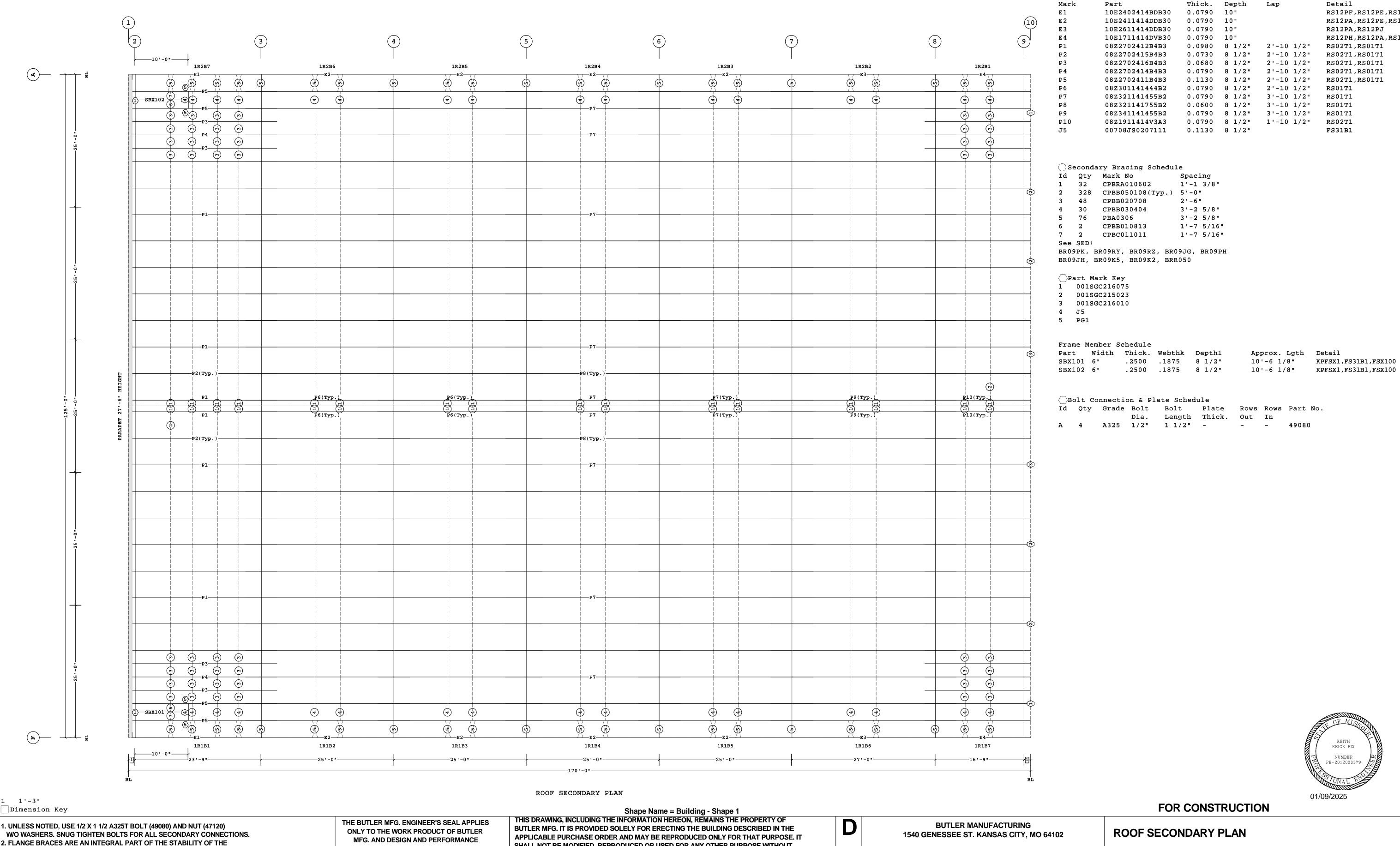
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		1540	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	PRIMARY BRACING SED'S		
REV:	DATE:	BY:	DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
				CUSTOMER: LOCATION: Lees Summit Missouri	BUTLER	DATE: 1/14/2024
				PROJECT: KR Wholesale	®	DRAWN/CHECK: LDCM / GL
DRAW	VING SCALE:		NTS	BUILDER'S PO#: 200440709	Butler Manufacturing VPC VERSION: 24.3.1	PAGE: 19
	12/18/2024	SEDSheet	11:08:40	 a	division of BlueScope Buildings North Amer	⊥ ica. Inc.

VPC FILENAME: 24-025448-01

12/18/2024 SEDSheet 11:08:40

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SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE

GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS

DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG.

ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION,

PRIOR WRITTEN APPROVAL OF BUTLER MFG.

INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

REQUIREMENTS SPECIFIED BY BUTLER.

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TO ANY DESIGN OR PERFORMANCE

REQUIREMENTS SPECIFIED BY BUTLER.

COMPONENT FURNISHED BY BUTLER EXCEPT

DESCRIPTION: BUILDER: MAR BUILDING SOLUTIONS LLC (BUTLER) Location: Lees Summit, Missouri PROJECT: KR Wholesale

BUILDER'S PO#: 200440709

Secondary Part Schedule

24-025448-01 1/14/2024 LDCM / GL **Butler Manufacturing** VPC VERSION: 24.3.1

VPC FILENAME: 24-025448-01

OF WALL AND ROOF SHEETS.

STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION

3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

11:08:43

a division of BlueScope Buildings North America, Inc.

NUMBER

Detail

FS31B1

RS12PF,RS12PE,RS12PJ

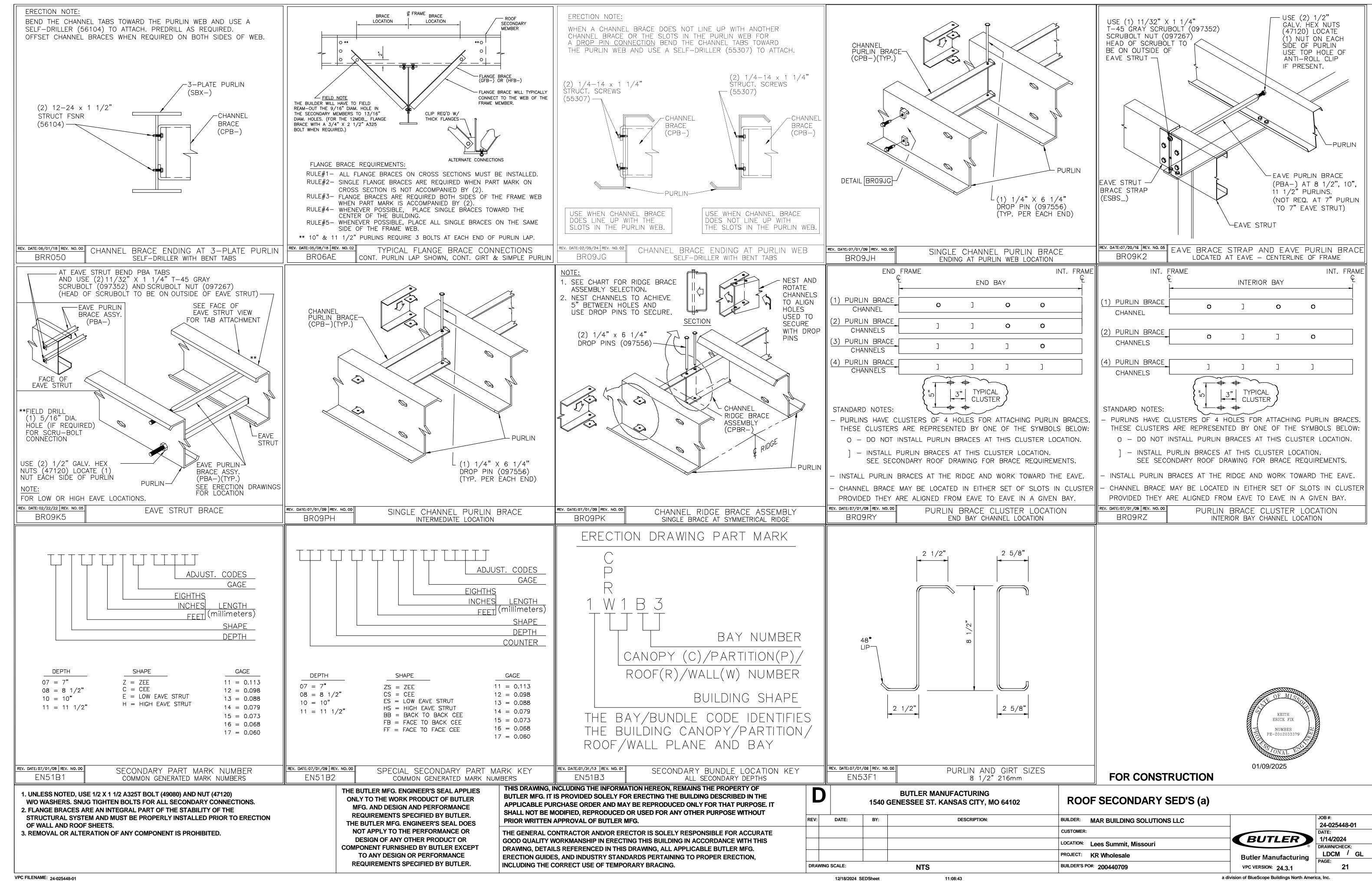
RS12PA,RS12PE,RS12PJ

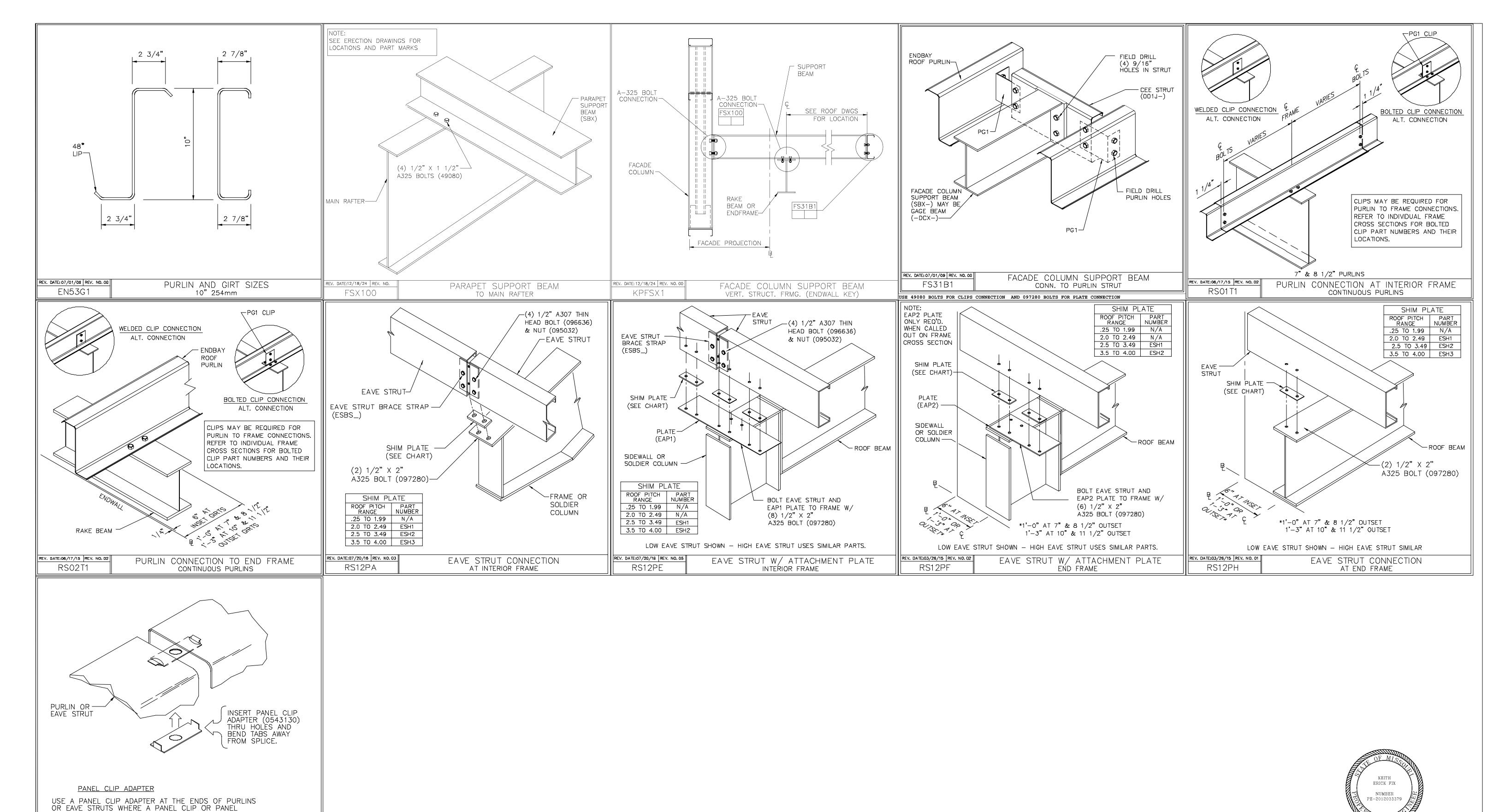
RS12PH,RS12PA,RS12PJ

RS12PA,RS12PJ

DATE:

DRAWING SCALE:





FOR CONSTRUCTION

1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.

2. FLANGE BRACES ARE AN INTEGRAL PART OF THE STABILITY OF THE STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION OF WALL AND ROOF SHEETS.

PANEL CLIP AT EAVE STRUT

LOCATED WHERE STRUT STOPS BUT CONNECTION REQUIRED

3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

EAVE ATTACHMENT MUST BE MADE

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D		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		ROC	OF SECONDARY SED'S (b)		
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
				CUSTOMER			DATE:
				LOCATION:	Lees Summit, Missouri	BUTLER	1/14/2024 DRAWN/CHECK:
				PROJECT:	KR Wholesale	Butler Manufacturing	LDCM / GL
DRAWING	SCALE:	1	NTS	BUILDER'S F	PO#: 200440709	VPC VERSION: 24.3.1	PAGE: 22
	12/10/2024 6	EDChoot	11.09.44			a division of BlueScope Buildings North Amer	ica Inc

VPC FILENAME: 24-025448-01

REV. DATE: 12/05/D9 REV. NO. 00

01/09/2025

Secondary Part Schedule Part Thick. Depth Lap Detail WS12A2,WS20F2,WS21D5 G1 00108ZS2605413B0 0.0880 8 1/2" G2 00208ZS2605415B0 0.0730 8 1/2" WS12A2,WS20F2,WS21D5 G3 08Z2402415DQ00 0.0730 8 1/2" WS12A2,WS01G2 **G4** 08Z2408413DG00 0.0880 8 1/2" WS12H5,FS25G1 G5 08Z2411412DDB0 0.0980 8 1/2" WS01G2 G6 00308ZS2802416B0 0.0680 8 1/2" 10 1/2" WS01G3,WS20F2,WS21D5 G7 08Z2511416D100 0.0680 8 1/2" 10 1/2" WS01G3,WS01G2 08Z2405414GG00 0.0790 8 1/2" FS25G1 G9 08Z261141611B0 0.0680 8 1/2" 10 1/2" WS01G3 G10 08Z2405413GGB0 0.0880 8 1/2" FS25G1 G11 08Z2502416Q1B0 0.0680 8 1/2" 10 1/2" WS12A2, WS01G3 08Z2408416DG00 0.0000 8 1/2" G12 WS12A2,WS12H5 G13(Flip) 08C2411413DD00 0.0880 8 1/2" FSX101,FS25F5 G14(Flip) 08C2411415DD00 0.0730 8 1/2" FSX101 G15(Flip) 08C2411416DD00 0.0680 8 1/2" FSX101 WS20F9

WS20F9, WS20F2, WS20B2, WS20B8

00208JS1702214 0.0790 8 1/2"

Secondary Bracing Schedule Id Qty Mark No Spacing 1 20 CPBB060108 6'-0" 4'-0" 2 16 CPBB040108 CPBC040306 4'-0" 5'-0**"** 4 32 CPBB050108 3'-6" CPBA030510 6 8 CPBA070510 7'-6" See SEDs: BRR004, BRR005, BRR006, BRR007, BRR008

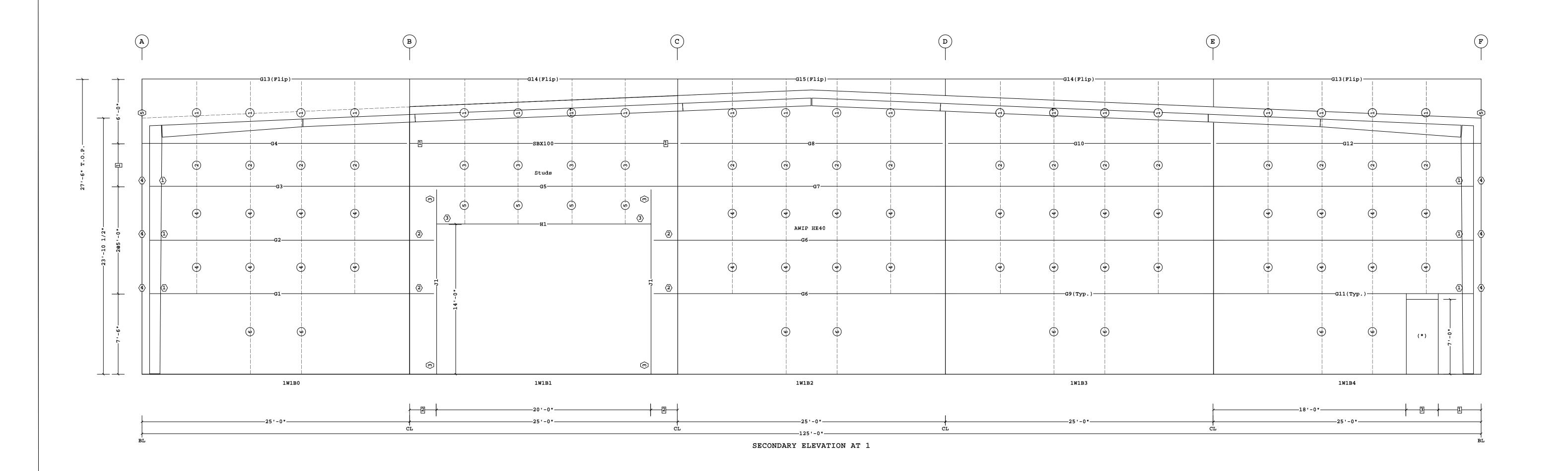
Frame Member Schedule Part Width Thick. Webthk Depth1 Approx. Lgth Detail SBX100 8" .2500 .2500 8 1/2" 24'-5 7/8" WSX100

Bolt Schedule Id Qty Grade Bolt Bolt Plate Rows Rows PartNo

Dia. Length Thick. Out In 1 2 A325 3/4" 2 1/2" - - -

ERECTION NOTES:

Jambs not designed for catenary loads. Wind beam designed to support stud wall to parapet height. FO's marked with (*) are not by BMC.



5 RKC10 4 GFA106 3 3'-0" PG1 2 2'-6" 2 JTG1 1 4'-0" 1 VCC07003090

 $\langle \; \;
angle$ Part Mark Key

1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS. 2. FLANGE BRACES ARE AN INTEGRAL PART OF THE STABILITY OF THE STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION OF WALL AND ROOF SHEETS. 3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

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FOR CONSTRUCTION

BUTLER MANUFACTURING SECONDARY ELEVATION AT 1 1540 GENESSEE ST. KANSAS CITY, MO 64102 DATE: DESCRIPTION: BUILDER: MAR BUILDING SOLUTIONS LLC (BUTLER) Location: Lees Summit, Missouri PROJECT: KR Wholesale **Butler Manufacturing** DRAWING SCALE: BUILDER'S PO#: 200440709

24-025448-01 1/14/2024 LDCM / GL VPC VERSION: 24.3.1

Dimension Key

11:08:47

01/09/2025

Secondary Part Schedule Thick. Depth Mark Part Detail WS12A2,WS20F2,WS21D5 G16 00408ZS1902416B0 0.0680 8 1/2" G17 08Z1811416V100 0.0680 8 1/2" 10 1/2" WS12A2,WS01G3 G18 08Z291141622B0 0.0680 8 1/2" 1'-4 1/2" WS01G3 G19 00508ZS2902416B0 0.0680 8 1/2" 2'-10 1/2" WS01G3,WS20F2,WS21D5 G20 08Z26114161100 0.0680 8 1/2" 10 1/2" WS01G3 G21 0.0680 8 1/2" 2'-10 1/2" 08Z2711416D4B0 WS01G2,WS01G3 G22 08Z0602416DG00 0.0680 8 1/2" WS20F2,WS01G2 G23 0.0680 8 1/2" 10 1/2" 08Z0702416G100 WS01G3,WS20F2 G24 08Z30114144400 0.0790 8 1/2" 2'-10 1/2" WS01G3 G25 08Z271141622B0 0.0680 8 1/2" 1'-4 1/2" WS01G3 G26 08Z2611416V3B0 0.0680 8 1/2" 1'-10 1/2" WS12A2,WS01G3 H2 00108DS2400014 0.0790 8 1/2" WS20F9 н3 00508JS1200015 0.0730 8 1/2" WS20F9 J2 WS20F9, WS20F2, WS20B8, WS20H3 00408JS0504015 0.0730 8 1/2" J3 WS20B6,WS20H3 J4 00608JS1702215 0.0730 8 1/2" WS20F9, WS20F2, WS20B2, WS20B8

OSecondary Bracing Schedule Id Qty Mark No Spacing 1 40 CPBB050108 5'-0" 3'-6" 2 6 CPBA030510 3 10 CPBA070510 7'-6" See SEDs: BRR004, BRR005, BRR006,

BRR007, BRR008

Bracing Part Schedule

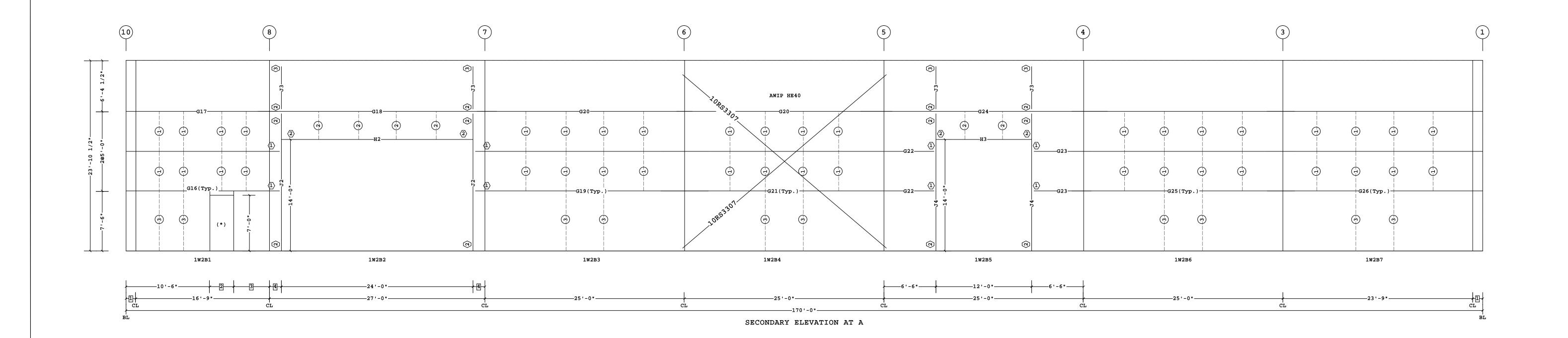
Part Qty Length 10RS3307 2 33'-7"

ERECTION NOTE:

- Jambs not designed for catenary loads. - FO's marked with (*) are not by BMC.

Detail

BR01G2



4 1'-6" 3 4'-6" 3 TSC1 2 PG1 2 3'-0" 1 1'-3" 1 JTG1 Dimension Key igstyle igstylePart Mark Key

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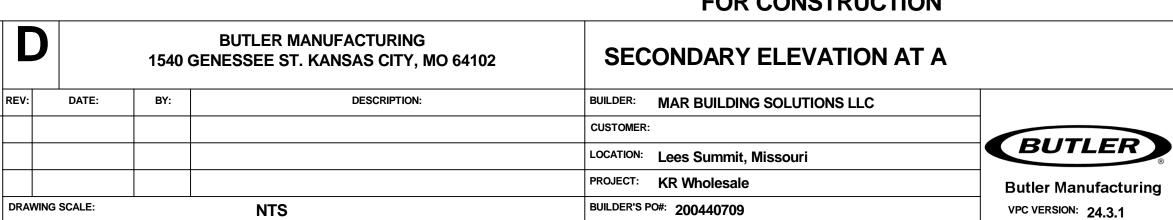
REQUIREMENTS SPECIFIED BY BUTLER.

COMPONENT FURNISHED BY BUTLER EXCEPT

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FOR CONSTRUCTION **BUTLER MANUFACTURING**



01/09/2025

VPC FILENAME: 24-025448-01

OF WALL AND ROOF SHEETS.

12/18/2024

24-025448-01

LDCM / GL

1/14/2024

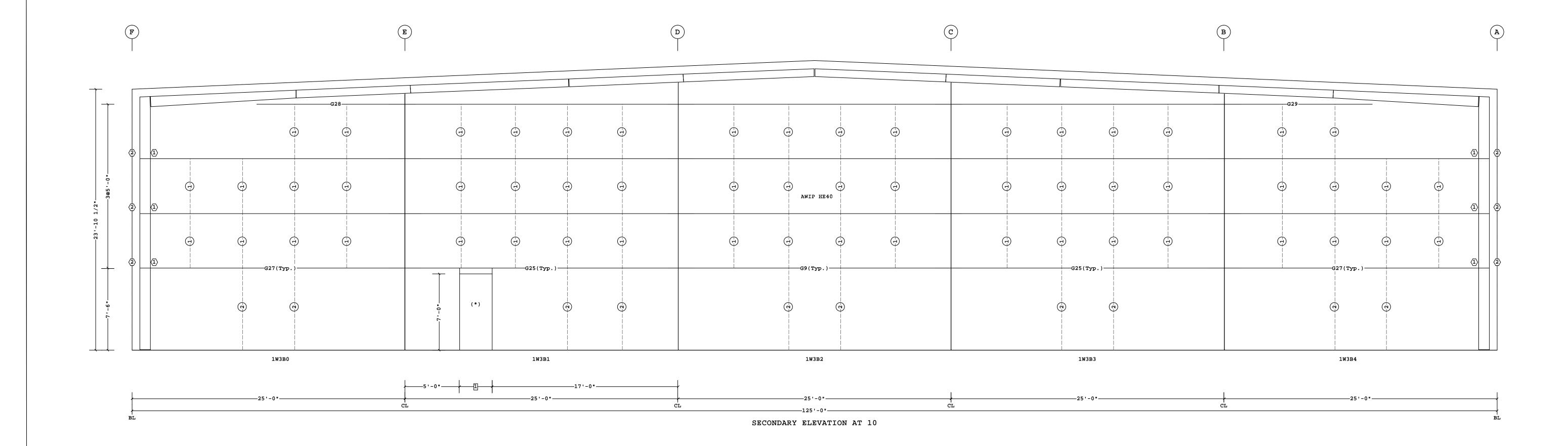
Secondary Part Schedule Part Detail Thick. Depth Lap 08Z261141611B0 0.0680 8 1/2" 10 1/2" WS01G3 G25 08Z271141622B0 0.0680 8 1/2" 1'-4 1/2" WS01G3 G27 08Z2508416Q2B0 0.0680 8 1/2" 1'-4 1/2" WS12A2,WS01G3 G28 00608ZS140641600 0.0680 8 1/2" 10 1/2" WS01G3,WS04C2 00708ZS140641600 0.0680 8 1/2" 10 1/2" WS04C2,WS01G3

Secondary Bracing Schedule Id Qty Mark No Spacing 1 56 CPBB050108 5'-0" 2 10 CPBA070510 7'-6" See SEDs:

BRR004, BRR005, BRR006

BRR007, BRR008

ERECTION NOTE: - FO's marked with (*) are not by BMC.



2 GFA106 1 3'-0" 1 VCC07003090 $oxedsymbol{oxed}$ Dimension Key igcirc Part Mark Key

1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS. 2. FLANGE BRACES ARE AN INTEGRAL PART OF THE STABILITY OF THE STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION OF WALL AND ROOF SHEETS. 3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

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	FOR CONSTRUCTION
BUTLER MANUFACTURING	SECONDARY ELEVATION AT 10

D	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			SECONDARY ELEVATION AT 10		
REV:	DATE:	BY:	DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
				CUSTOMER:		DATE:
				LOCATION: Lees Summit, Missouri	(BUTLER)	1/14/2024 DRAWN/CHECK:
				PROJECT: KR Wholesale	Butler Manufacturing	LDCM / GL
DRAWING	G SCALE:		NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1	PAGE: 25

12/18/2024

Secondary Part Schedule Part Thick. Depth Lap Detail 08Z261141611B0 0.0680 8 1/2" 10 1/2" WS01G3 G30 08Z2511416V1B0 0.0680 8 1/2" 10 1/2" WS12A2,WS01G3 G31 08Z281141611B0 0.0680 8 1/2" 10 1/2" WS01G3 G32 08Z1811416V1A0 0.0680 8 1/2" 10 1/2" WS12A2,WS01G3

Secondary Bracing Schedule Id Qty Mark No Spacing 1 52 CPBB050108 5'-0" 2 14 CPBA070510 7'-6" See SEDs: BRR004, BRR005, BRR006

BRR007, BRR008

Bracing Part Schedule Part Qty Length 10RS3307 2 33'-7"

Detail BR01G2

AWIP HE40 \bigcirc $(\overline{1})$ \bigcirc \bigoplus \bigcirc \bigoplus $\overline{\Box}$ \bigcirc $\overline{\ominus}$ $\overline{\oplus}$ $(\frac{1}{2})$ $\overline{\bigcirc}$ \bigcirc $\overline{\oplus}$ -G9(Typ.)---G9(Typ.)--+G32(Typ.)+ 1W4B2 1W4B4 1W4B5 1W4B6 1W4B7 SECONDARY ELEVATION AT F

01/09/2025

1 1'-3"

Dimension Key

1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS. 2. FLANGE BRACES ARE AN INTEGRAL PART OF THE STABILITY OF THE STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION OF WALL AND ROOF SHEETS. 3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

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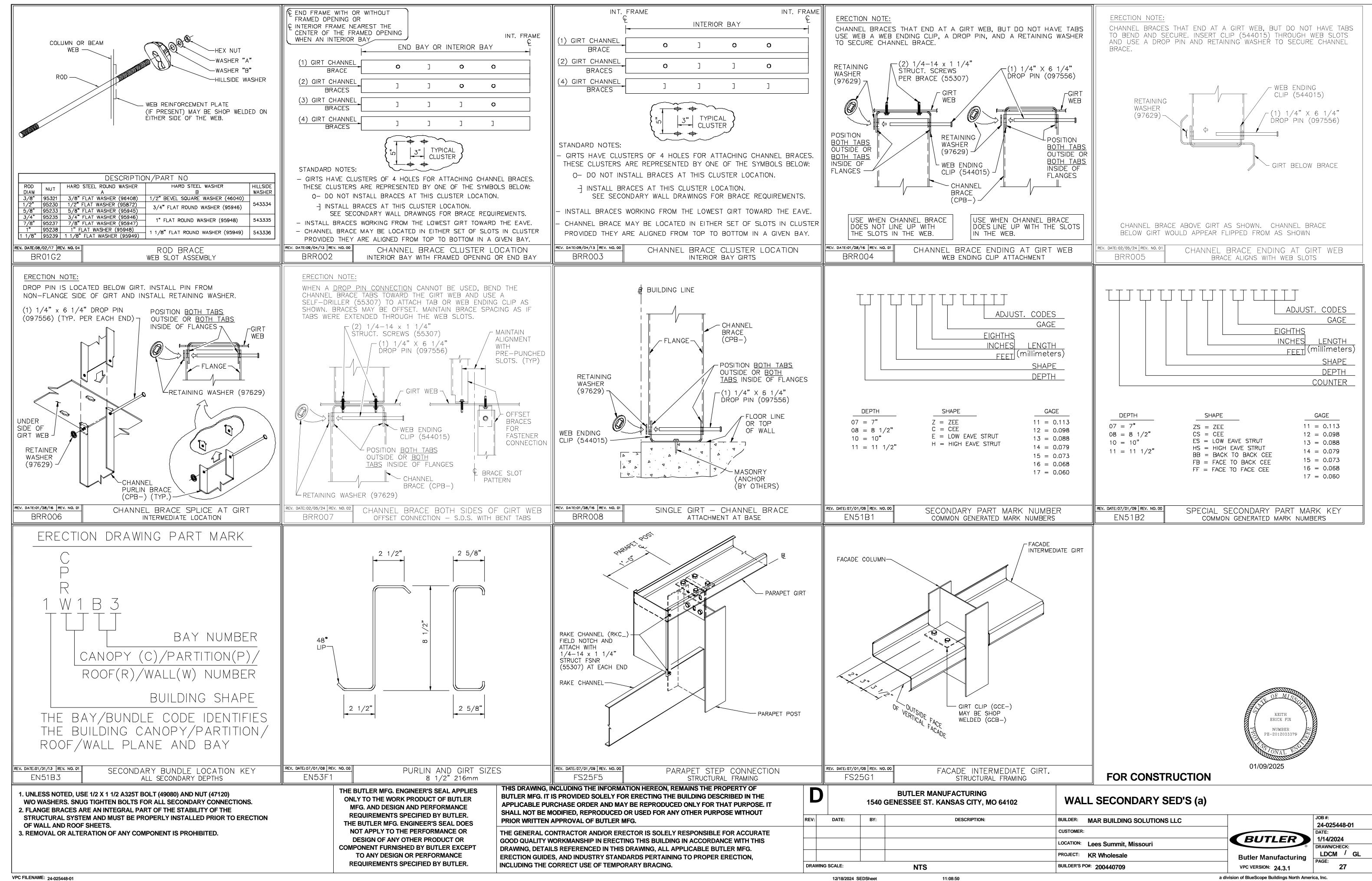
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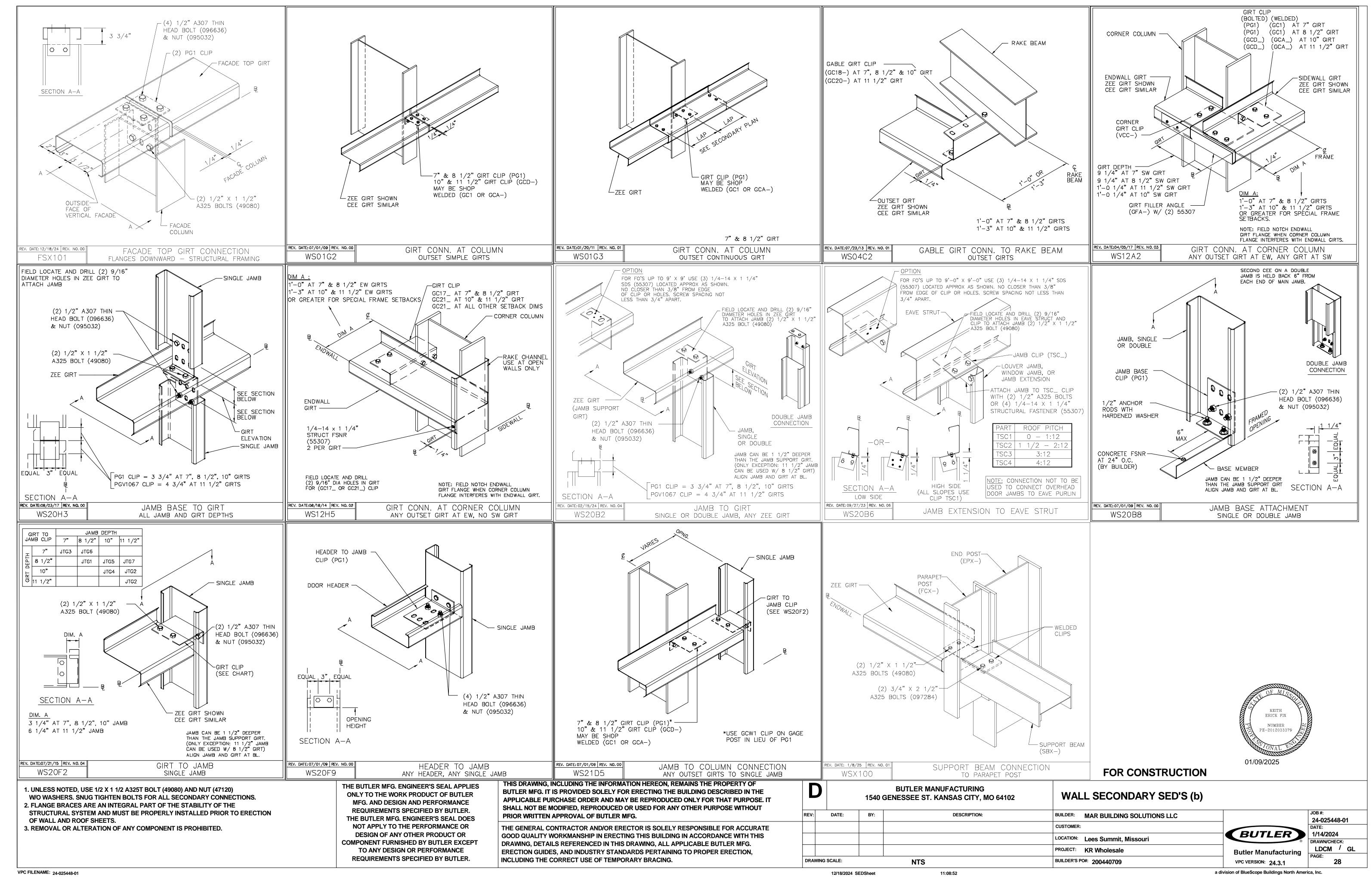
FOR CONSTRUCTION

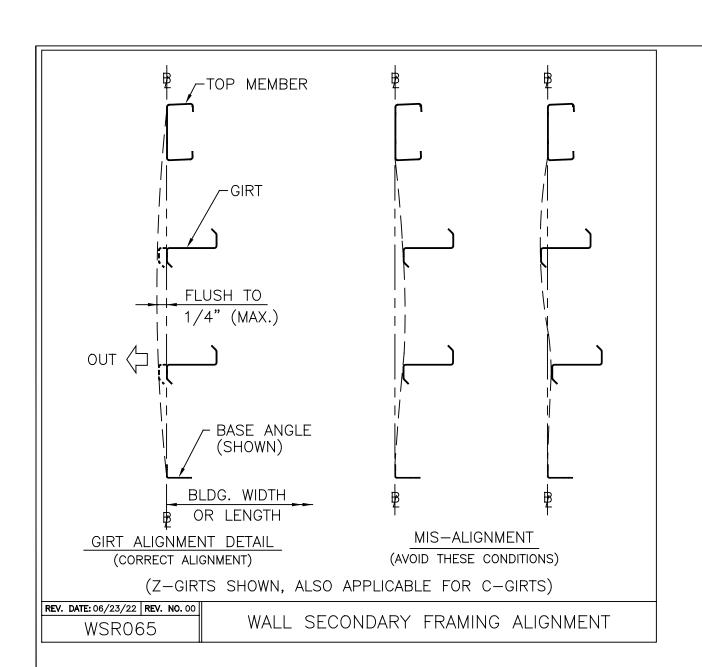
BUTLER MANUFACTURING SECONDARY ELEVATION AT F 1540 GENESSEE ST. KANSAS CITY, MO 64102 DATE: DESCRIPTION: BUILDER: MAR BUILDING SOLUTIONS LLC 24-025448-01 (BUTLER) Lees Summit, Missouri PROJECT: KR Wholesale **Butler Manufacturing** BUILDER'S PO#: 200440709 DRAWING SCALE: NTS **VPC VERSION: 24.3.1**

11:08:50

1/14/2024







KEITH ERICK FIX

NUMBER PE-2012033379

01/09/2025

FOR CONSTRUCTION

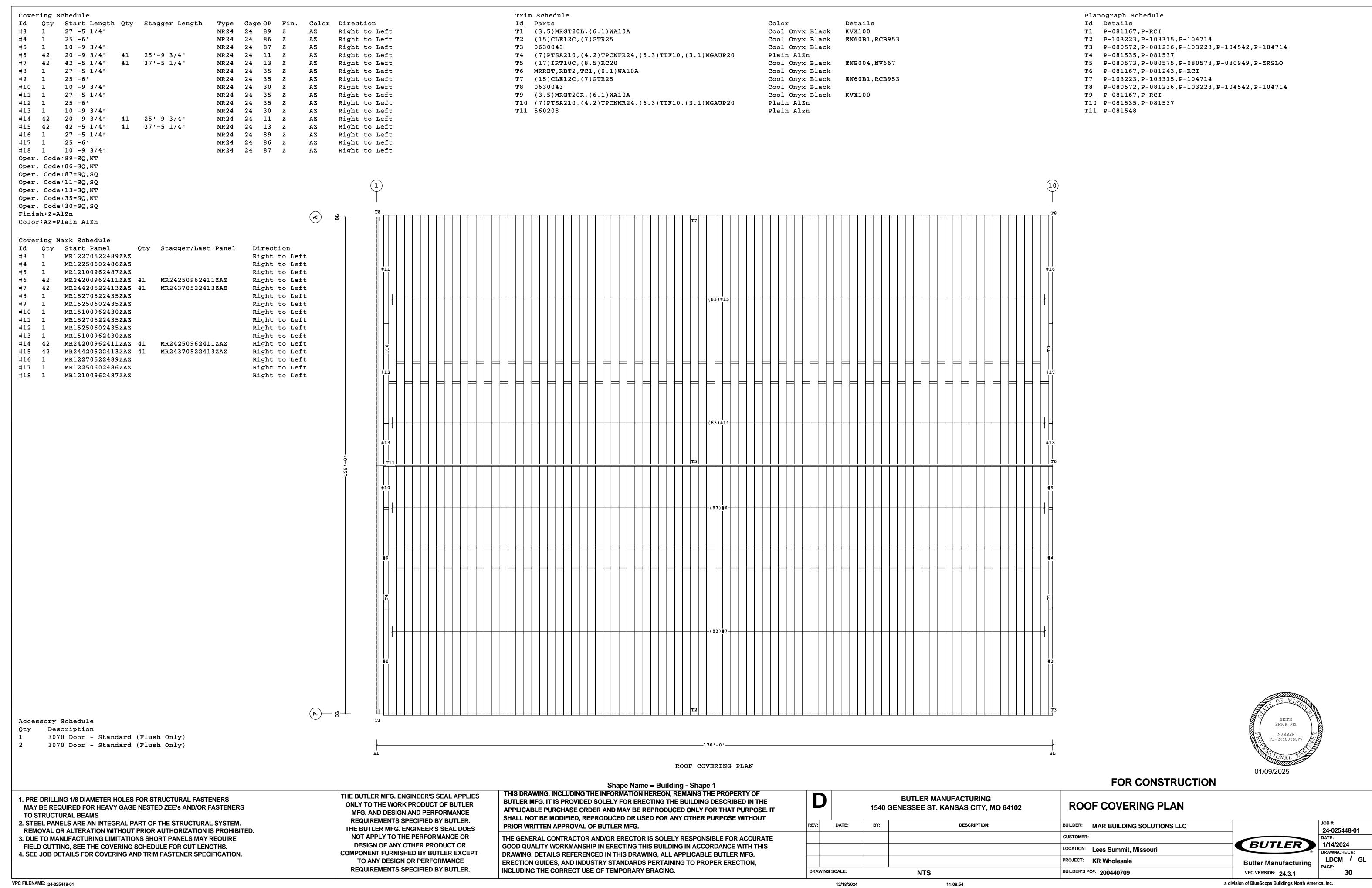
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		1540 (BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	WAL	L SECONDARY SED'S (c)		
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
				CUSTOMER:			DATE:
				LOCATION:	Lees Summit, Missouri	BUTLER	1/14/2024 DRAWN/CHECK:
				PROJECT:	KR Wholesale	Butler Manufacturing	LDCM / GL
DRAW	ING SCALE:	1	NTS	BUILDER'S PO	^{O#:} 200440709	VPC VERSION: 24.3.1	PAGE: 29

10:23:38

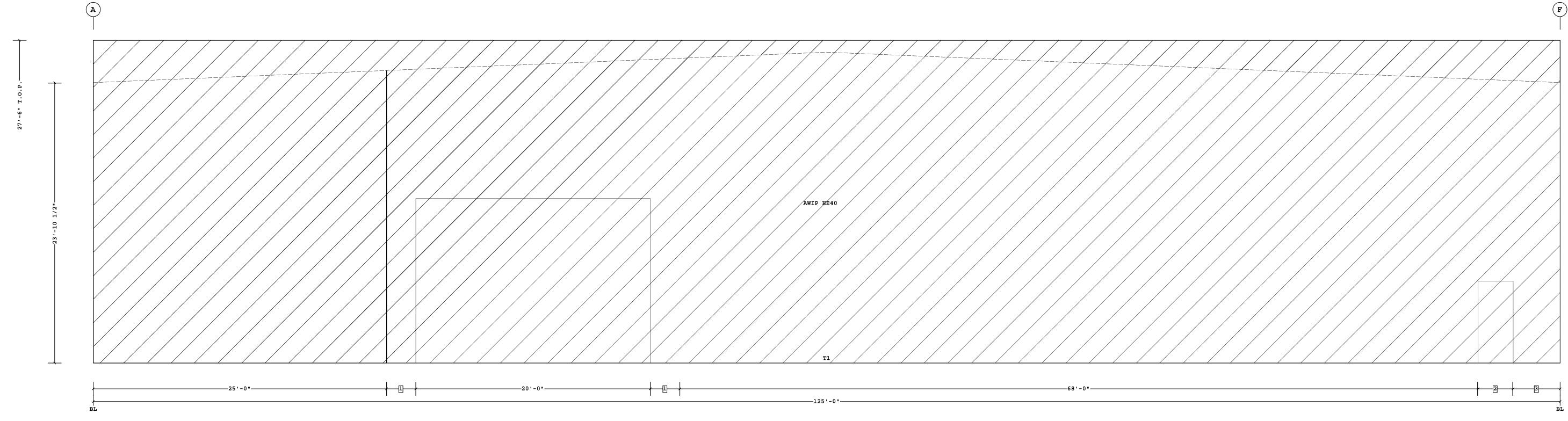


Id Parts T1 (5)BA125 Color Galvalume Details WCX100,WSR065

ERECTION NOTE:

Parapet cap trim (14-CTFV8E10 - Cool Onix Black) is provided as optional to be used at builder's earliest convenience.

Base angle is proivided for builder to field work at NBBMC wall as required.



COVERING ELEVATION AT 1



1. PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS
MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS

TO STRUCTURAL BEAMS

2. STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM.
REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.

3. DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE
FIELD CUTTING, SEE THE COVERING SCHEDULE FOR CUT LENGTHS.

4. SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.

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FOR CONSTRUCTION

		1540 (BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	COVERING ELEVATION AT 1			
REV:	DATE:	BY:	DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC	J0 2		
				CUSTOMER:	DA		
				LOCATION: Lees Summit, Missouri	BUTLER 1		
				PROJECT: KR Wholesale	Butler Manufacturing		
DRA	WING SCALE:	•	NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1		

JOB #:
24-025448-01

DATE:
1/14/2024

DRAWN/CHECK:
LDCM / GL

PAGE:
24.3.1 31

3 4'-0" 2 3'-0" 1 2'-6"

11:08:57

T2 (6.8)BA125

Id Parts T1 0008738,4CE75,(2.5)CP410 Cool Onyx Black

Details KV847 WCX100,WSR065 Planograph Schedule

Id Details

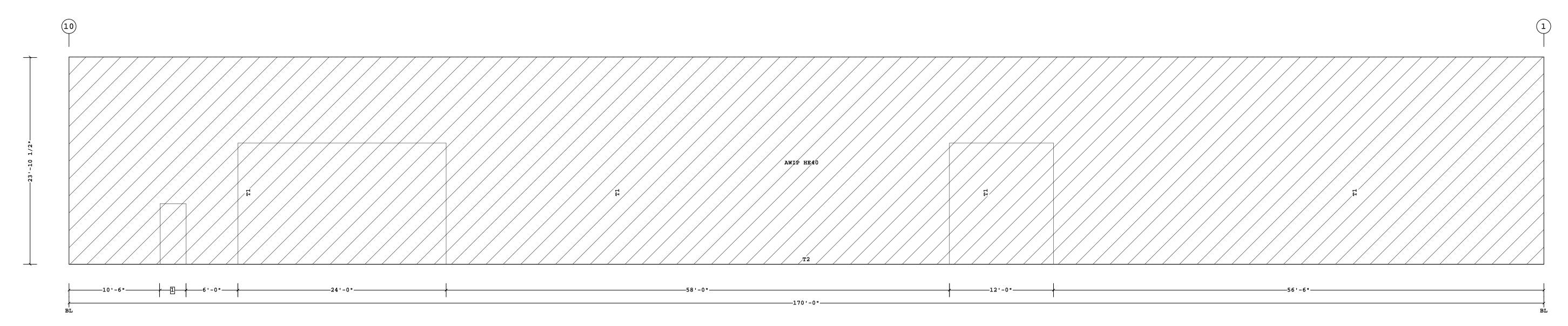
T1 P-105224,P-105225,P-105228

T2 ----

ERECTION NOTE: Base angle is proivided for builder to field work as required.

Color

Galvalume



COVERING ELEVATION AT A



1 3'-0" Dimension Key

1. PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS

2. STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED. 3. DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE FIELD CUTTING, SEE THE COVERING SCHEDULE FOR CUT LENGTHS. 4. SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.

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				FOR CONSTRUCT
	1540 (BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	CO	/ERING ELEVATION AT
≣ :	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC

11:08:58

D		1540	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	COVERING ELEVATION AT A		
REV:	DATE:	BY:	DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
				CUSTOMER:		DATE:
				LOCATION: Lees Summit, Missouri	BUTLER	1/14/2024 DRAWN/CHECK:
				PROJECT: KR Wholesale	Butler Manufacturing	LDCM / GL
DRAWING	G SCALE:		NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1	PAGE: 32

Id Parts T1 (5)BA125 Color Galvalume Details WCX100,WSR065

ERECTION NOTE:

Base angle is proivided for builder to field work as required.

AWIP/HE40/

COVERING ELEVATION AT 10



1 3'-0" Dimension Key

1. PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS

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	FOR CONSTRUCTION
BUTLER MANUFACTURING	COVERING FLEVATION AT 10

			BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102	COVERING ELEVATION AT 10		
R	EV:	DATE:	BY: DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
				CUSTOMER:		DATE:
				LOCATION: Lees Summit, Missouri	BUTLER	1/14/2024 DRAWN/CHECK:
				PROJECT: KR Wholesale	Butler Manufacturing	LDCM / GL
Γ	DRAW	VING SCALE:	NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1	PAGE: 33

12/18/2024

11:08:59

Id Parts T1 (6.8)BA125 Color Galvalume Details WCX100,WSR065 KV847 Planograph Schedule

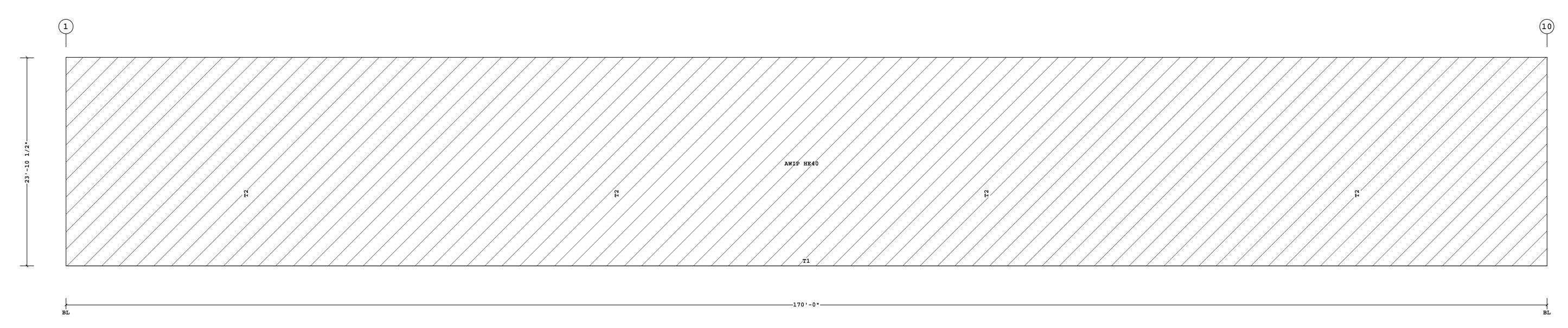
Id Details T1 ----

T2 P-105224,P-105225,P-105228

ERECTION NOTE:

Base angle is proivided for builder to field work as required.

T2 0008738,4CE75,(2.5)CP410 Cool Onyx Black



COVERING ELEVATION AT F



1. PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS
MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS

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	FOR CONSTRUCTION
UTLER MANUFACTURING	

D		1540 (BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	CO/	ERING ELEVATION AT F		
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		J
				CUSTOMER	•	COUT! ED	[
				LOCATION:	Lees Summit, Missouri	BUTLER	[
				PROJECT:	KR Wholesale	Butler Manufacturing	Ļ
DRAWIN	NG SCALE:		NTS	BUILDER'S	PO#: 200440709	VPC VERSION: 24.3.1	'

11:09:00

24-025448-01

1/14/2024

DRAWN/CHECK:

ERECTION NOTE: Flat stock is provided for the builder to use as backer panel, flat stock provided will cover 330 sq. ft. approx. Material provided: (11) FSTKB10 - Plain AlZn

FLAT STOCK FLAT STOCK 4'-0"-3'-0"-

> WALL LINER ELEVATION AT 1 (View from inside Building)

> > 01/09/2025

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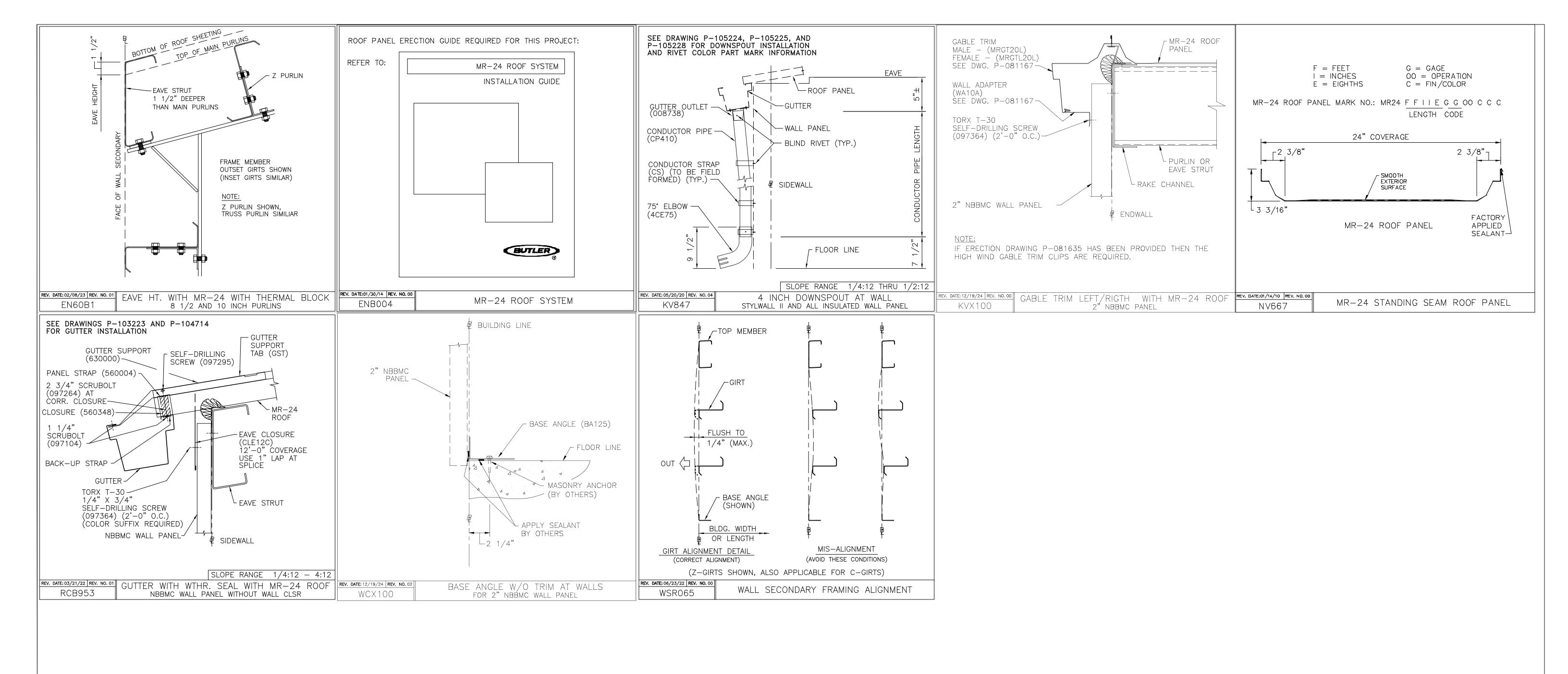
	FOR CONSTRUCTION
BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102	WALL LINER ELEVATION AT 1

DATE: BY: DESCRIPTION: BUILDER: MAR BUILDING SOLUTIONS LLC **BUTLER** Location: Lees Summit, Missouri PROJECT: KR Wholesale Butler Manufacturing BUILDER'S PO#: 200440709 DRAWING SCALE: NTS VPC VERSION: 24.3.1

24-025448-01 1/14/2024 DRAWN/CHECK: LDCM / GL

12/18/2024

11:09:01





FOR CONSTRUCTION

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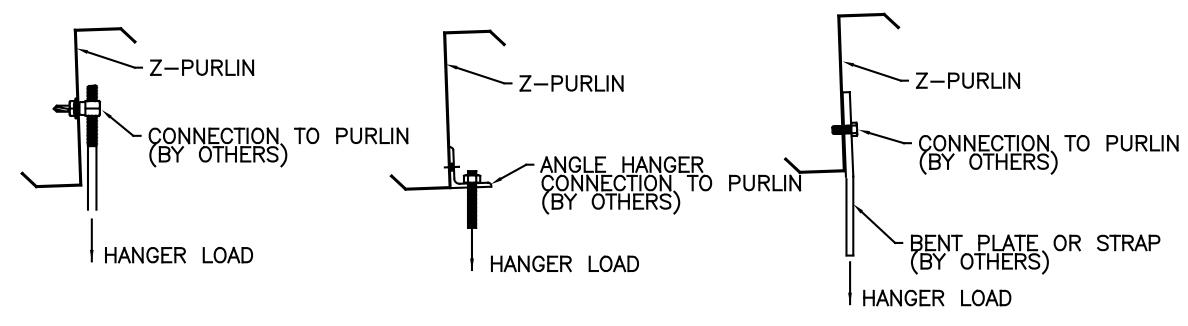
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	D		1540 G	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	COVERING & TRIM SED'S							
Ī	REV:	DATE:	BY:	DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC		ЈОВ #: 24-025448-01					
					CUSTOMER:		DATE:					
					LOCATION: Lees Summit, Missouri	(BUTLER)	1/14/2024 DRAWN/CHECK:					
					PROJECT: KR Wholesale	Butler Manufacturing	LDCM / GL					
	DRAWIN	IG SCALE:	1	NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1	PAGE:					

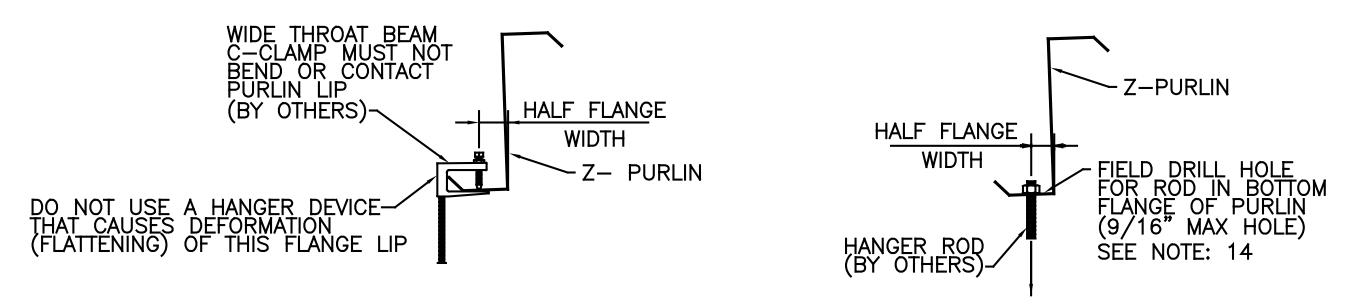
12/18/2024 SEDSheet

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WEB HANGERS

FOR 1/2" DIAM. BOLT TO PURLIN CONNECTION—— MAX HANGER LOAD=1500lbs
PURLIN MUST BE SPECIFICALLY DESIGNED FOR LOADS GREATER THAN 500 LB. SEE NOTE: 2.



VERIFY OVERALL PURLIN DESIGN CAN TAKE APPLIED LOADS. SEE NOTE: 2

MAXIMUM LOAD SUSPENDED FROM BOTTOM FLANGE (LOCATED AT HALF-FLANGE WIDTH)							
THICKNESS	MAX LOAD	THICKNESS	MAX LOAD				
0.060"	110lbs	0.088"	200lbs				
0.068"	120lbs	0.098"	250lbs				
0.073"	0.073" 140lbs		250108				
0.079"	180lbs	0.113"	250lbs				

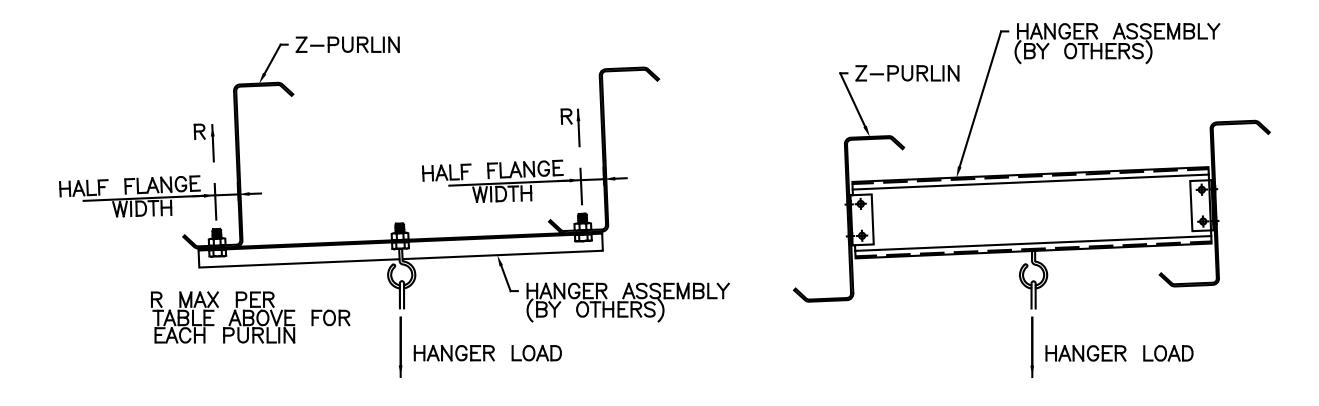
FOR LOADS LOCATED MORE THAN HALF FLANGE WIDTH FROM WEB, USE HALF OF THE LOADS SHOWN ABOVE.

BOTTOM FLANGE CLAMP HANGER

BOTTOM FLANGE ROD HANGER
(TOP FLANGE SIMILAR)

(TOP FLANGE SIMILAR)

DO NOT USE ANY OF THE DETAILS ABOVE IF ROOF SLOPE IS GREATER THAN 4:12



DOUBLE PURLIN HANGERS

VERIFY OVERALL PURLIN DESIGN CAN SUPPORT APPLIED LOADS.

GENERAL NOTES

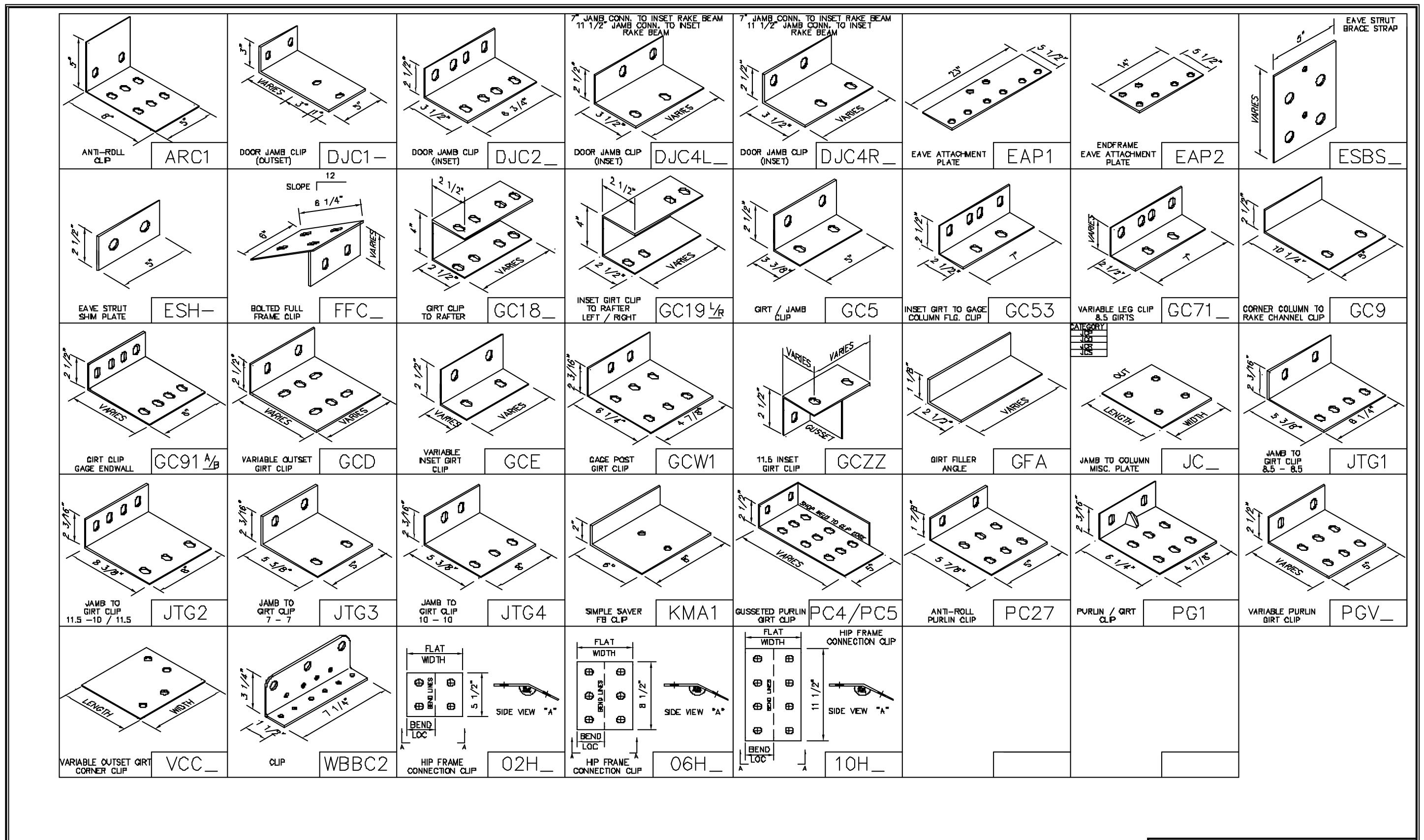
- 1. CONCENTRATED LOADS GREATER THAN 500lbs ON ANY SINGLE PURLIN MUST BE EXPLICITLY LOCATED AND DESIGNED FOR DURING DESIGN OF BUILDING SYSTEM.
- 2. SPECIFIED COLLATERAL LOADS MAY BE CONVERTED TO SAFE CONCENTRATED LOADS AS FOLLOWS, WHERE P = MAX CONCENTRATED LOAD(lbs); W = UNIFORM COLLATERAL LOAD (PSF) x PURLIN SPACING (ft) = lbs/ft; L = PURLIN SPAN (ft). HANGERS SHOULD BE SPACED APPROX. EQUAL.

EXAMPLE: A PIPE IS SUSPENDED FROM A PURLIN AT 3 LOCATIONS EQUALLY SPACED BAY SPACING = 24'-0" PURLIN SPACING = 5'-0" SPECIFIED COLLATERAL LOAD = 5 PSF W = 5 PSF x 5' = 25 PLF L = 24'-0" PMAX = 0.25×25 PLF x 24'-0" = 150 LBS AT EACH LOCATION THE PURLIN CAN SUPPORT 3 LOADS UP TO 150 LBS EACH. PICK A HANGER CONNECTION CAPABLE OF SUPPORTING ACTUAL APPLIED LOADS.

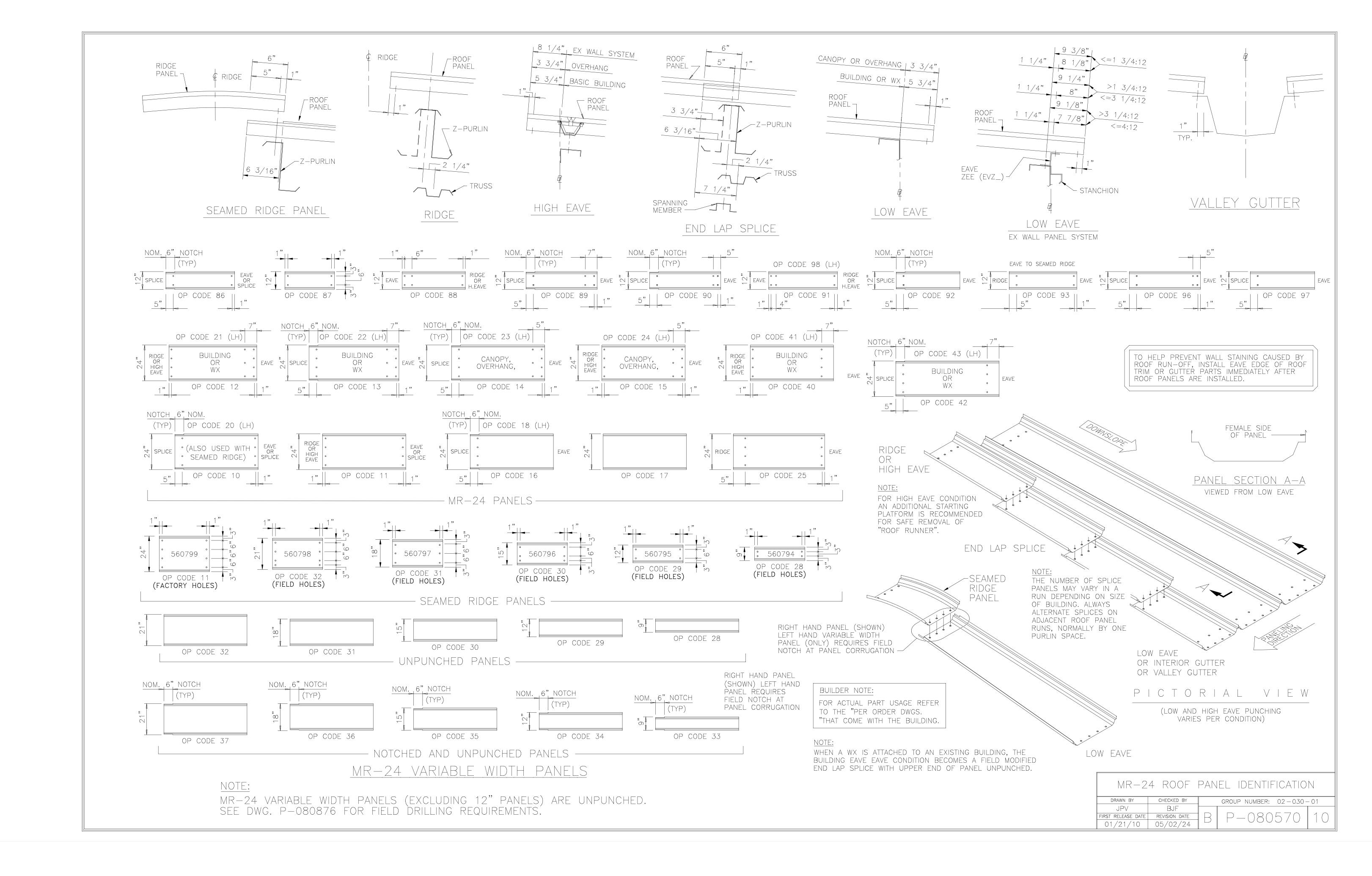
- 3. FOR LOADS GREATER THAN 250 lbs, PURLINS MUST BE "BLOCKED" AT LOCATION OF LOAD TO PREVENT PURLIN ROTATION.
- 4. EQUIPMENT LOADS SHOULD BE OBTAINED FROM CERTIFIED EQUIPMENT DRAWINGS AND MANUFACTURER'S DATA.
- 5. Z-PURLINS WILL DEFLECT UNDER SNOW AND WIND LOADS. ITEMS THAT MAY BE DAMAGED DUE TO DEFLECTIONS, (EX. GAS LINES), VERIFY THAT PIPES OR SUSPENDED EQUIPMENT ARE COMPATIBLE WITH EXPECTED DEFLECTION RANGES (\pm L/180).
- 6. THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIRES SPRINKLER HANGERS TO BE DESIGNED FOR A MINIMUM LOAD OF FIVE TIMES THE WEIGHT OF THE WATER—FILLED PIPE PLUS 250 POUNDS. THE HANGER ITSELF MUST BE ABLE TO SUPPORT THIS LOADING, IT IS NOT NECESSARY TO DESIGN THE SUPPORTING MEMBER FOR THIS LOAD IN COMBINATION WITH THE DESIGN LOADS.
- 7. SUSPENDED LOADS WILL NEED TO BE BRACED (TO THE PRIMARY FORCE RESISTING SYSTEM) FOR LATERAL STABILITY DUE TO EARTHQUAKES.
- 8. HANGER DESIGN IS NOT THE RESPONSIBILITY OF BLUESCOPE.
- 9. TOP FLANGE HANGERS SHOULD BE AVOIDED ON BUILDINGS WITHOUT INSULATION SPACER BLOCKS ON TOP OF THE TOP FLANGE HANGERS ARE REQUIRED, PLACE THE HANGERS AT THE ROOF PANEL MAJOR CORRUGATION LOCATION TO AVOID DAMAGING THE ROOF PANEL WITH THE HANGER WHEN THE ROOF PANEL IS LOADED OR WALKED ON.
- 10. WHEN BEAM C-CLAMPS OR OTHER ROD HANGERS ARE USED ON THE TOP FLANGE, THE ROD SHOULD NOT EXTEND ABOVE THE TOP OF THE CLAMP TO AVOID DAMAGING THE ROOF PANEL WITH THE ROD WHEN THE ROOF PANEL IS LOADED OR WALKED ON.
- 11. DO NOT HANG ANY TYPE OF CRANE, HOIST, CONVEYOR OR ANY MOVING LOADS FROM THE Z-PURLINS.
- 12. DO NOT HANG ANY LOAD FROM BBNA SUPPLIED PURLIN BRACES OR BRIDGING.
- 13. DO NOT WELD ANY PART OF THE Z-PURLIN.
- 14. HOLES MUST NOT EXCEED 9/16" DIAMETER UNLESS AUTHORIZED BY BBNA ENGINEER. DRILL OR REAM HOLES WHEN REQUIRED— DO NOT FLAME CUT

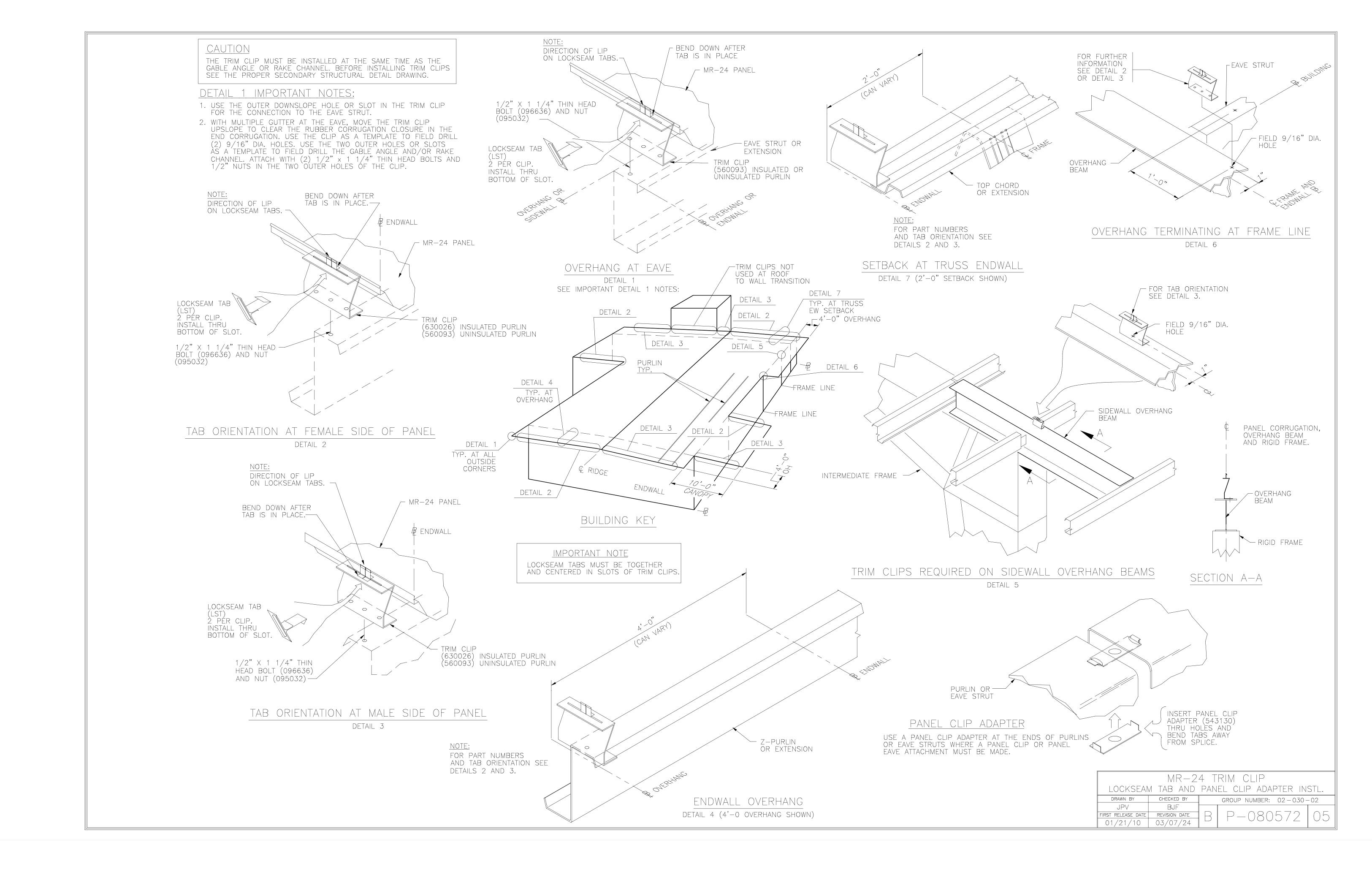
CONCENTRATED LOADS ON ROOF
Z-PURLIN HANGER DETAILS

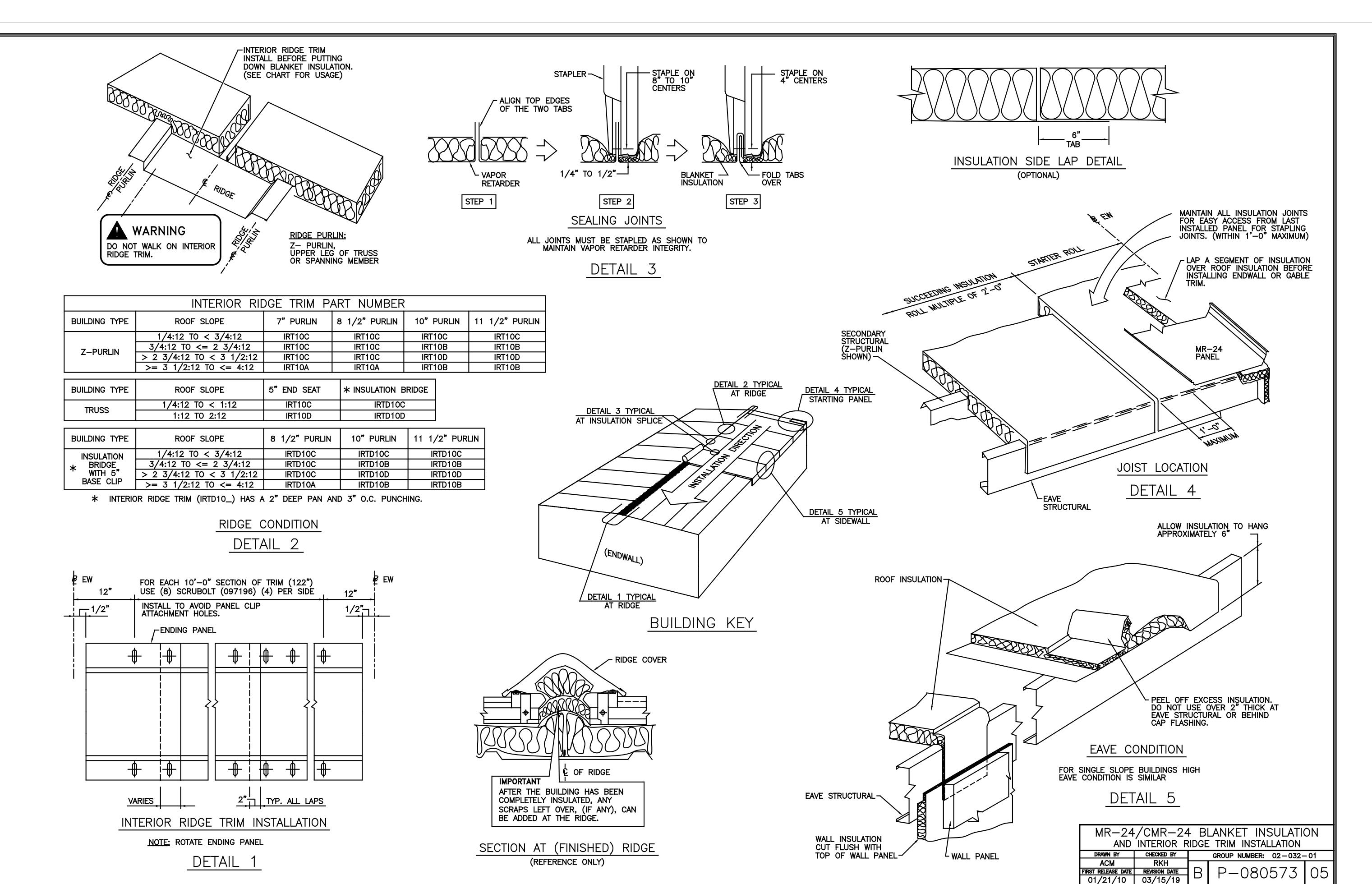
DRAWN BY CHECKED BY GROUP NUMBER: 80-054-01
REVERITT RBENTON
FIRST RELEASE DATE REVISION DATE
02/26/10 02/26/20 B B-081465 09

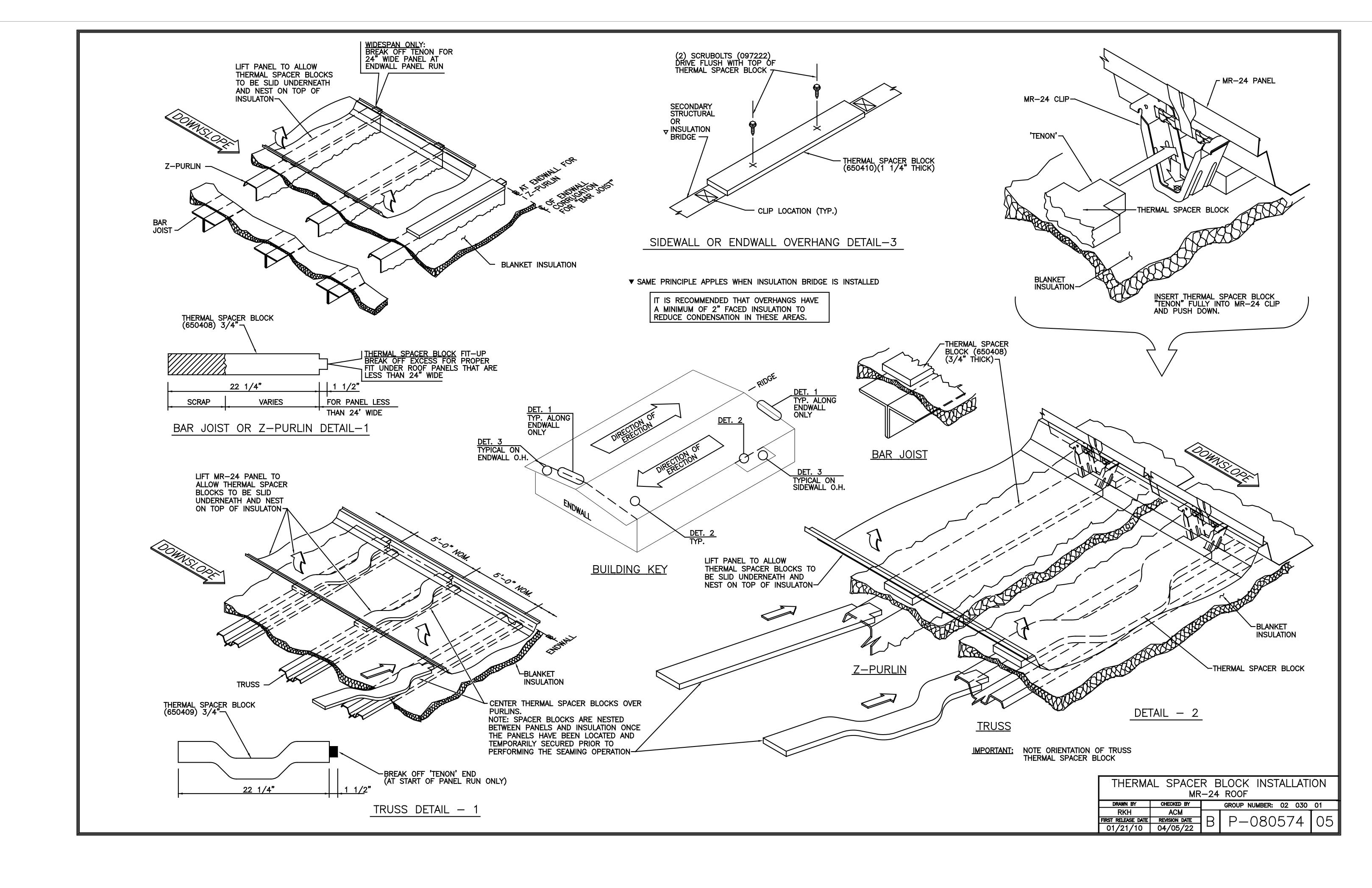


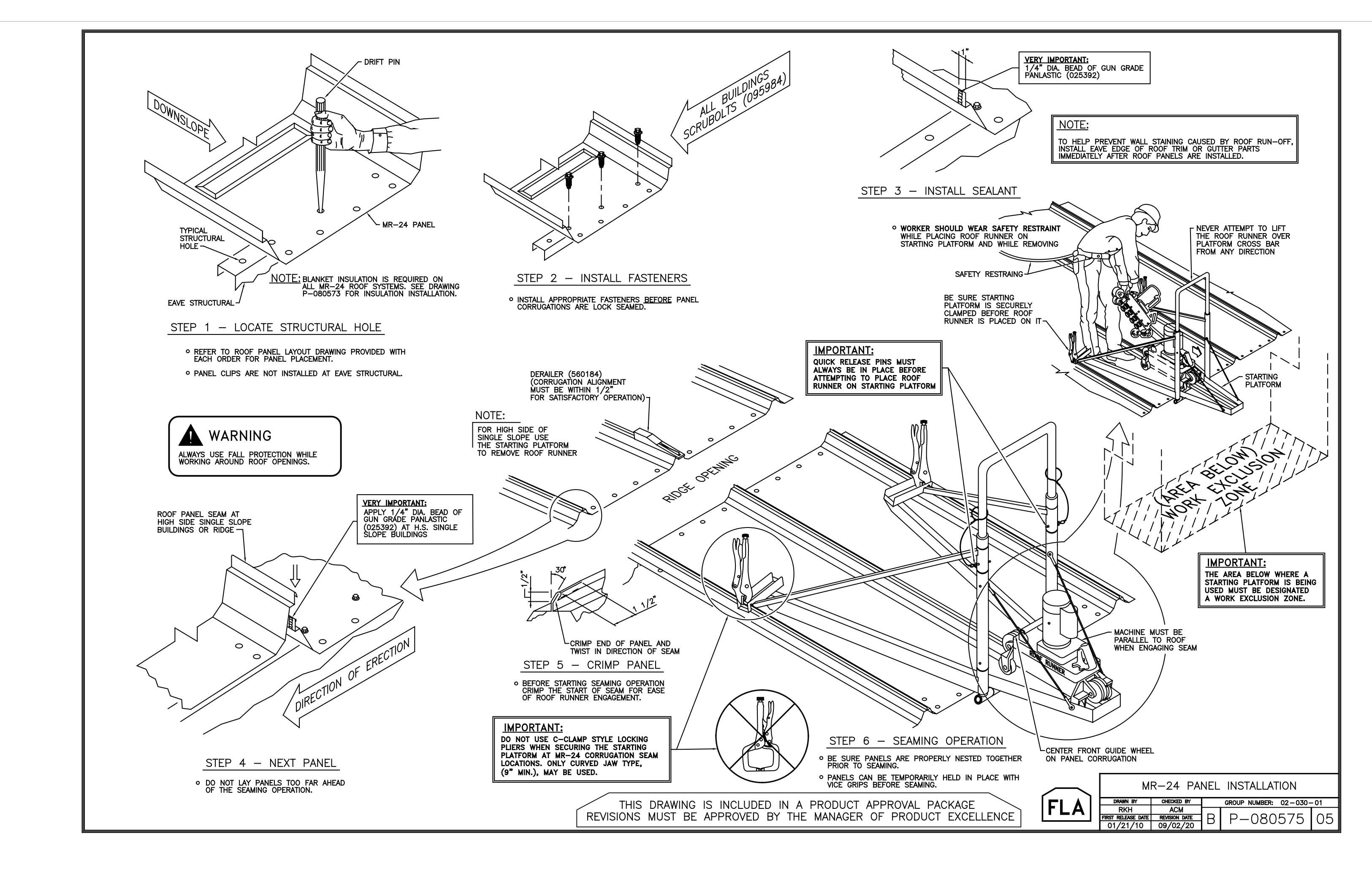
BENT CLIPS						
DIRAWN BY SHEGKED BY		GRDUP NUMBER:				
NF FIRST RELEASE DATE	RUR REVISION DATE 07/21/16	В	B-081765	04		

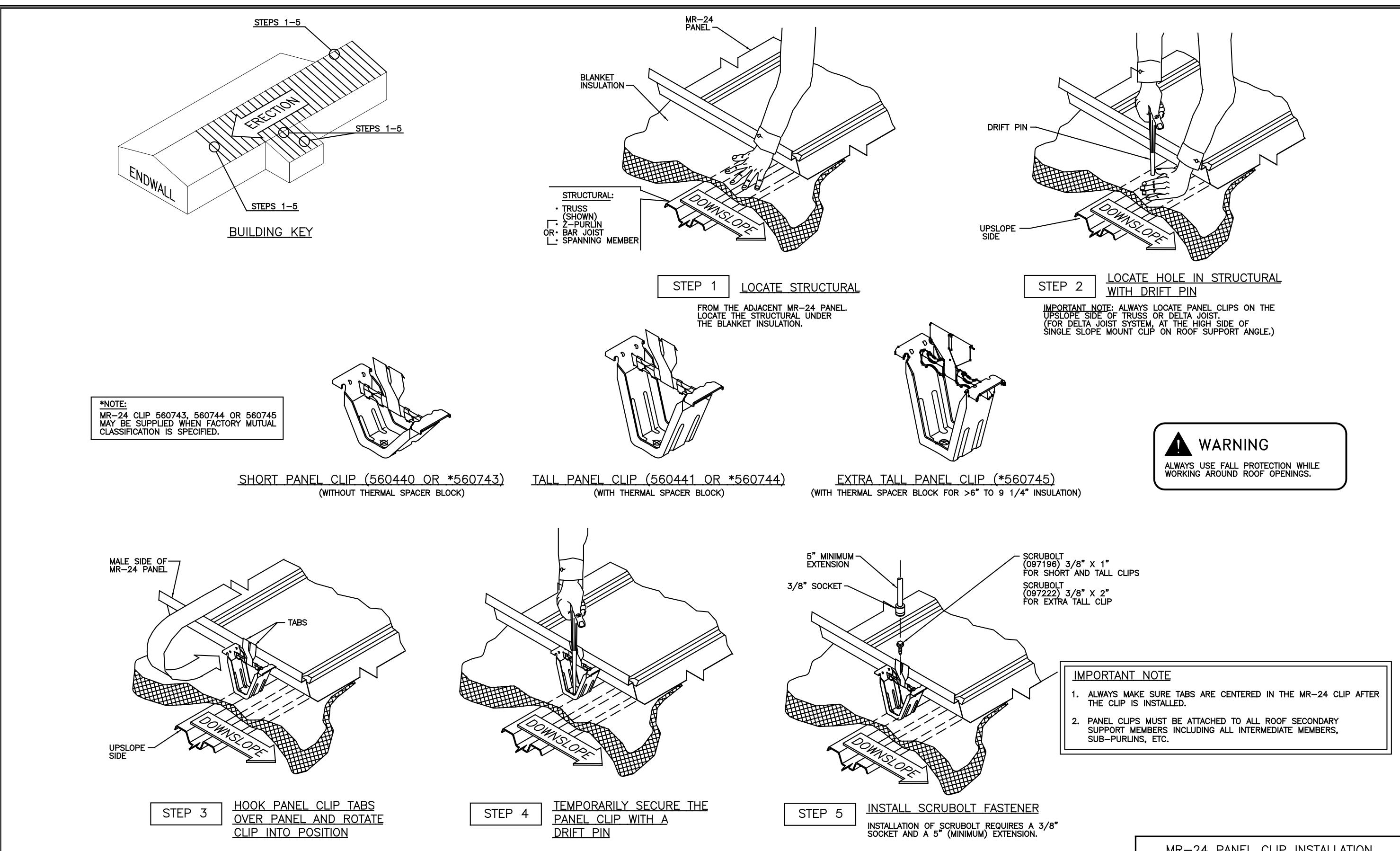








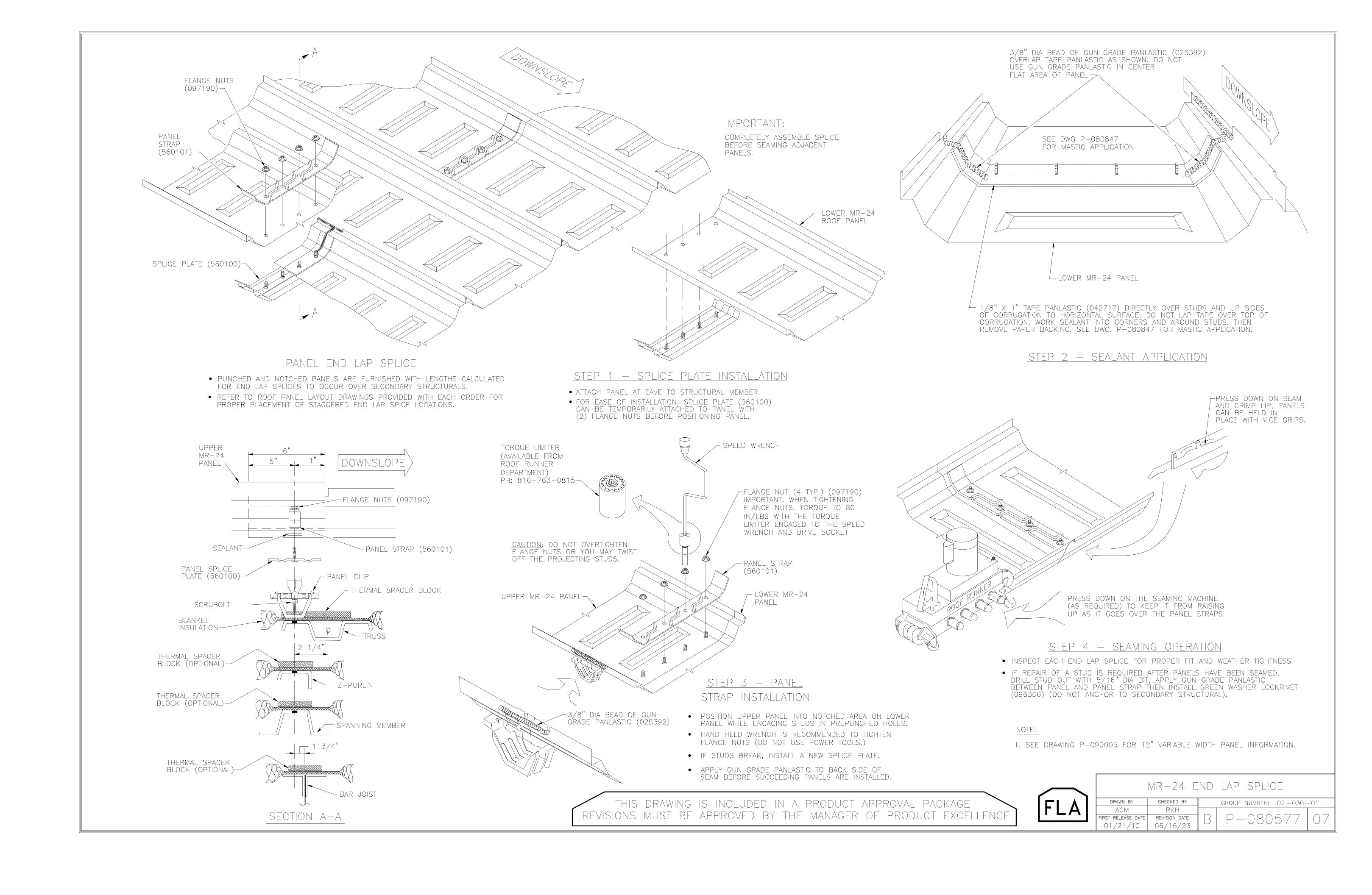


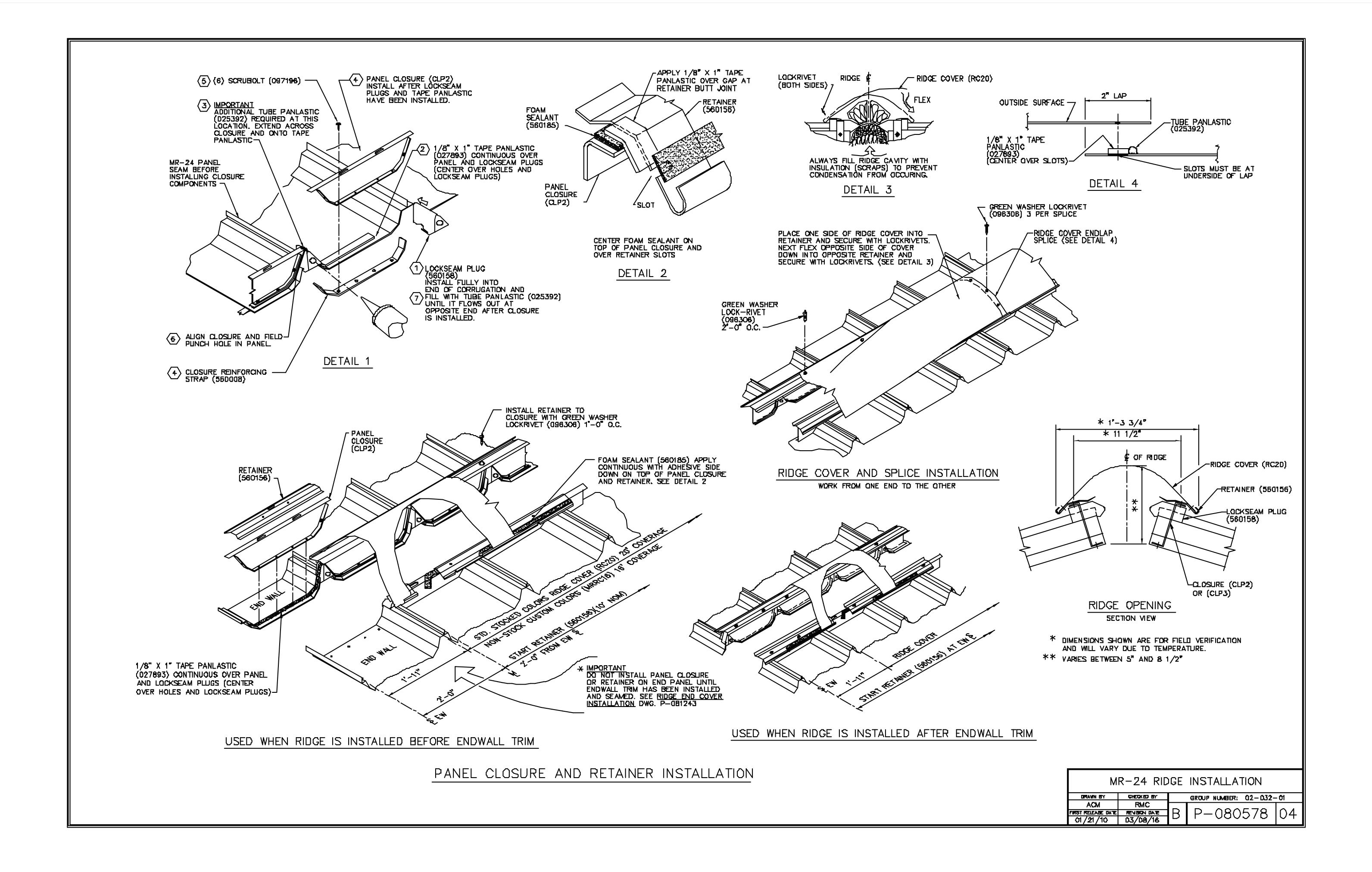


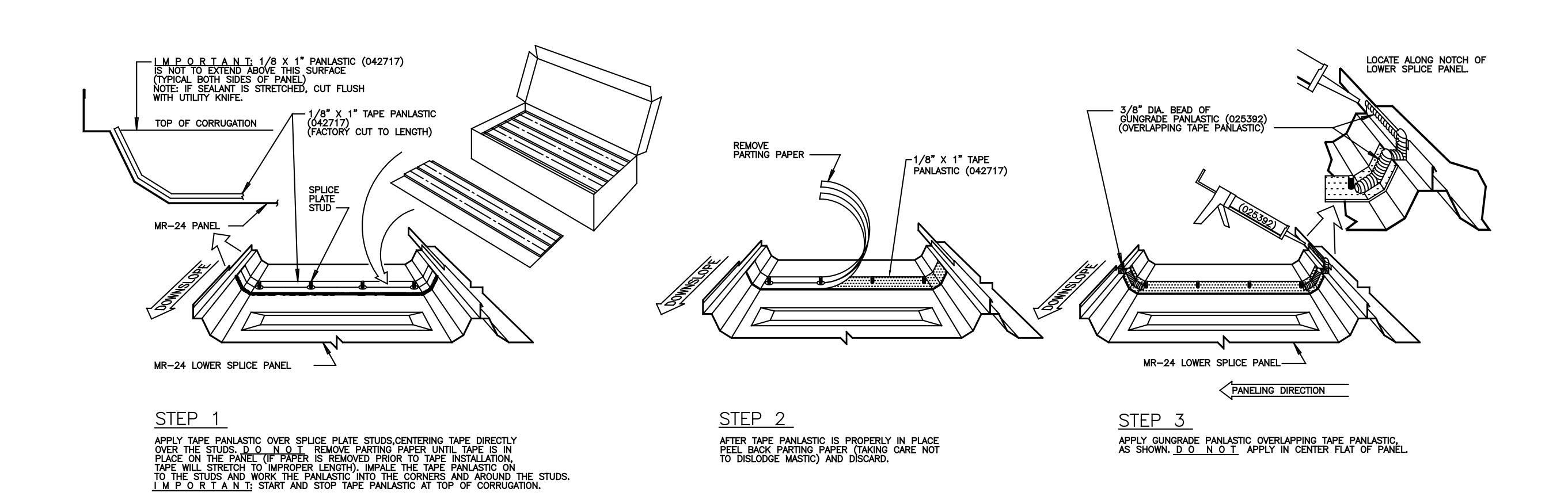
THIS DRAWING IS INCLUDED IN A PRODUCT APPROVAL PACKAGE REVISIONS MUST BE APPROVED BY THE MANAGER OF PRODUCT EXCELLENCE

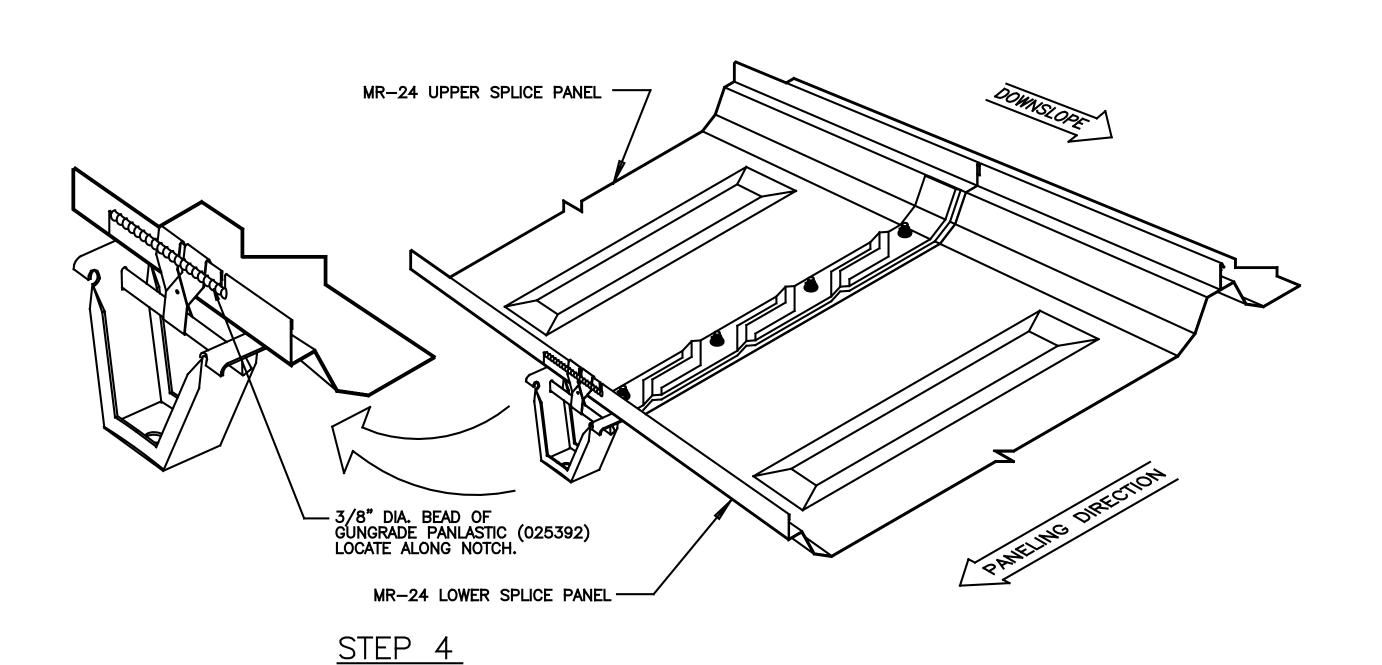
MR-24 PANEL CLIP INSTALLATION GROUP NUMBER: 02-030-01

RMS RKH FIRST RELEASE DATE REVISION DATE
01/21/10 11/09/21 P-080576 07

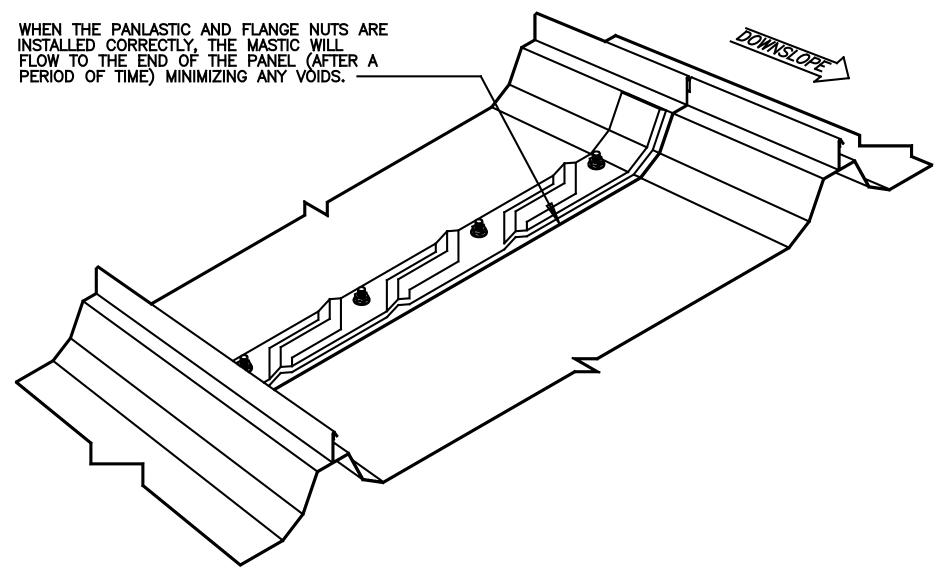








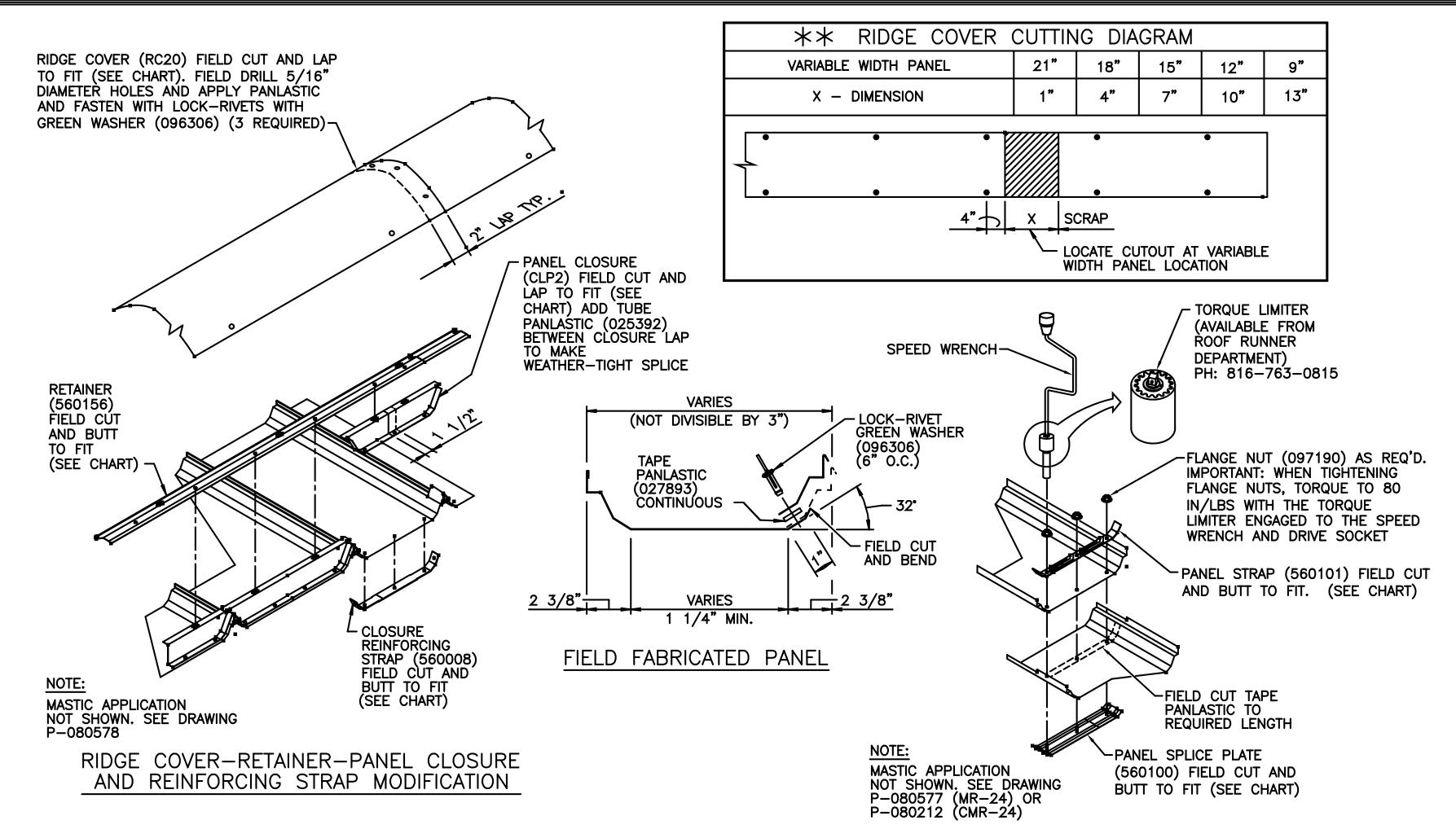
AFTER UPPER SPLICE PANEL IS INSTALLED APPLY 3/8" DIA. BEAD OF GUNGRADE PANLASTIC TO THE BACK SIDE OF NOTCH AS SHOWN, BEFORE INSTALLING THE NEXT ROOF PANEL.



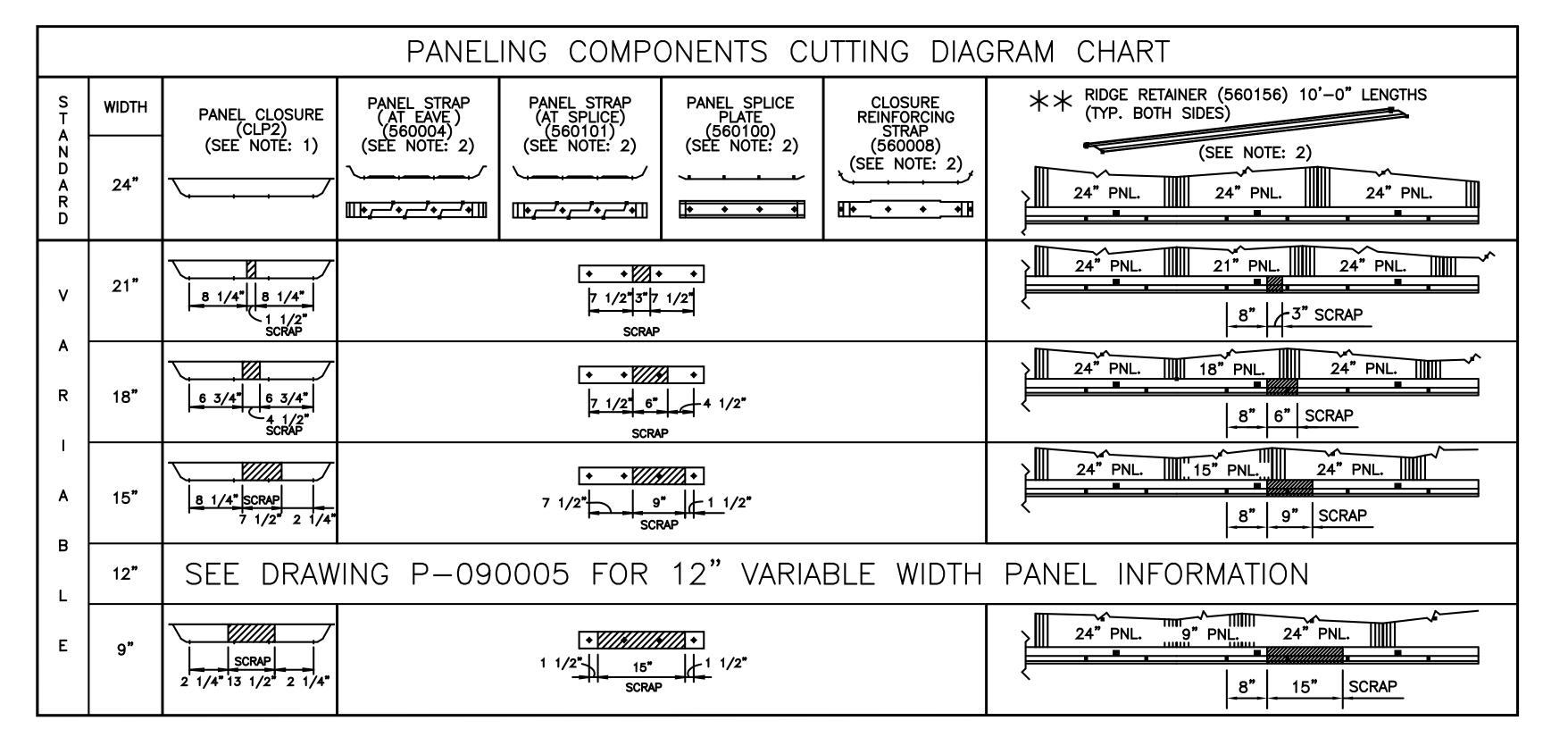
STEP 5

FINAL INSPECTION: MASTIC THAT IS PROPERLY INSTALLED WILL FLOW TOWARD THE PANEL END MINIMIZING ANY VOID BETWEEN THE PANELS.

MR-24/CMR-24 MASTIC APPLICATION AT PANEL SPLICE							
DRAWN BY CHECKED BY			GROUP NUMBER: 02-030-01				
ACM	RMC						
FIRST RELEASE DATE	revision date	IRI	P-080847	101			
01/21/10	12/04/18	ו	1 000017				



PANEL STRAP-PANEL SPLICE PLATE MODIFICATION



	PANEL HOLE PATTERN DIAGRAM									
	* LONGITUDINAL DIMENSIONS									
PANEL WIDTH	RIDGE	EAVE BUILDING/WX 6"1" CANOPY/O.H. 4"1"	SPLICE *(HIGH END)	SPLICE (LOW END)	TRANSVERSE DIMENSIONS					
21"					3" 6" 5" 5" 5"					
18"					3" 6" 6" 3"					
15**					3" 5" 6" 3"					
12"	SEE DRAWING P-090005 FOR 12" VARIABLE WIDTH PANEL I									
*O					3" 3"					

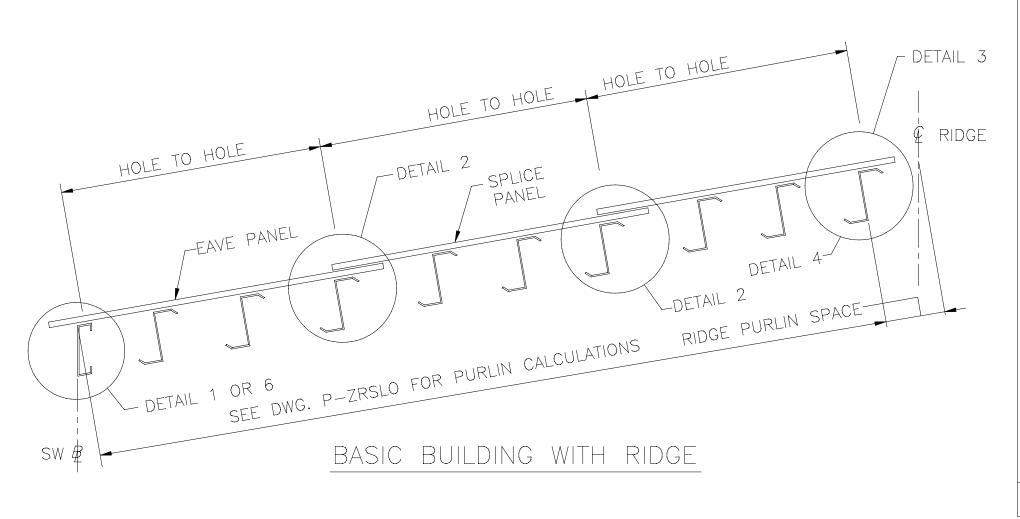
* ALL FIELD DRILLED HOLES 5/16" DIAMETER LONGITUDINAL HOLE LOCATION DIMENSIONS ARE CRITICAL. ERRORS IN FIELD DRILLING LOCATION WILL ACCUMULATE AND CAUSE RIDGE FIT-UP DIFFICULTY.

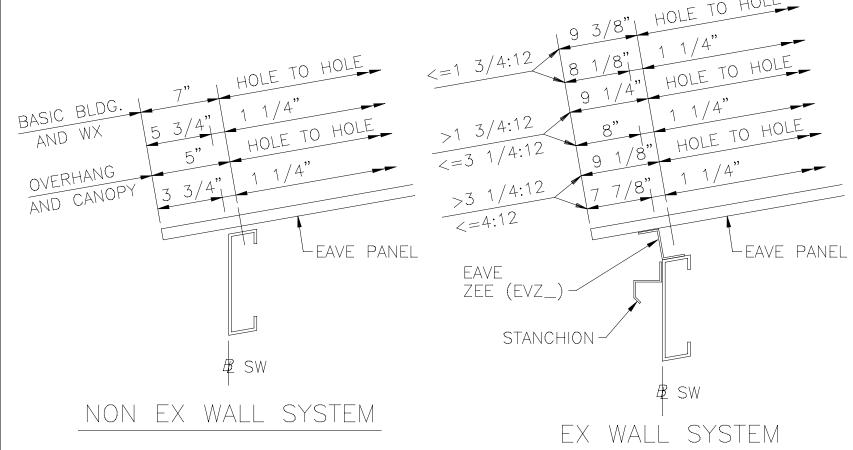
** THE RIDGE COVER/RETAINER CUTTING DIAGRAM IS ONLY APPLICABLE TO A SINGLE RUN OF THE 12" VARIABLE WIDTH PANEL LOCATED WITH IN THE INTERIOR OF THE BUILDING. CUTTING DETAIL IS NOT APPLICABLE TO MULTIPLE ADJACENT RUNS OR TO A SINGLE RUN OF 12" PANELS LOCATED AT THE ENDWALLS OF THE ROOF.

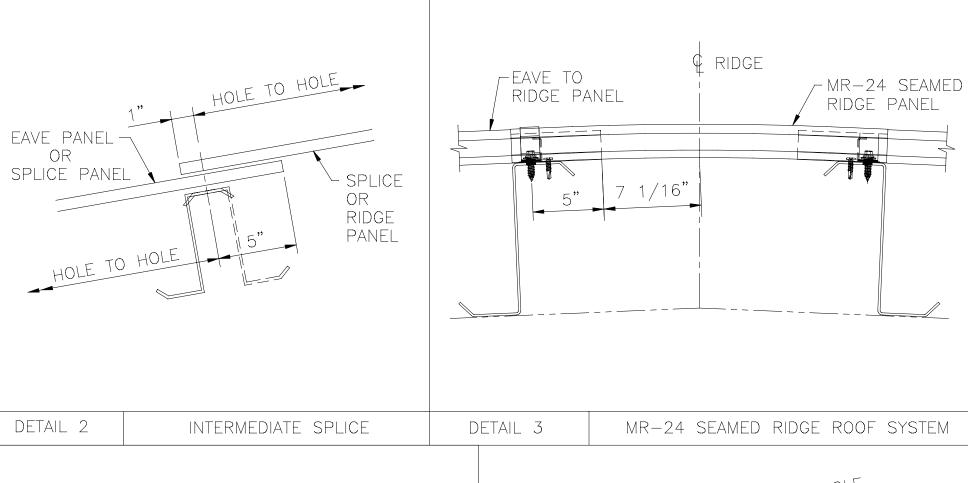
NOTES:

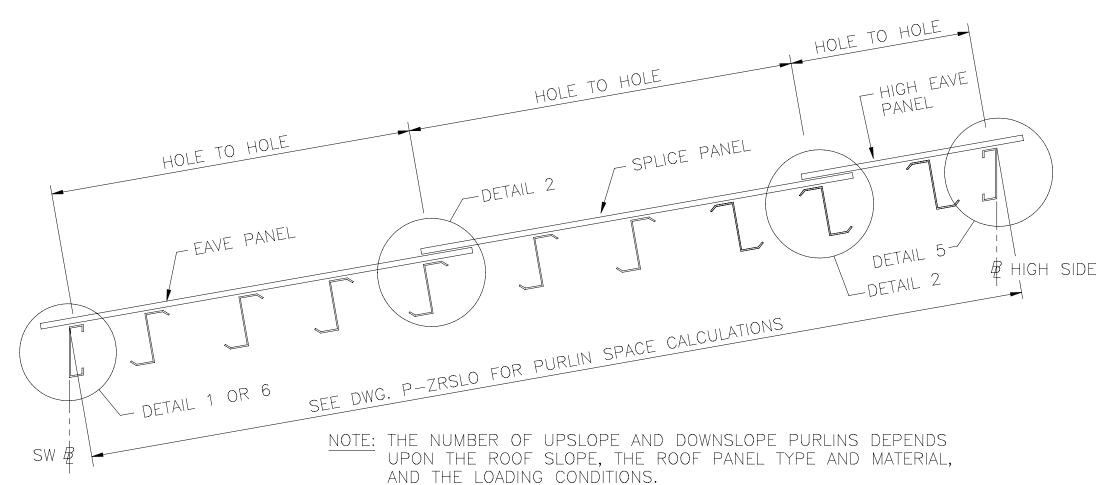
1. CUT PANEL CLOSURE AS SHOWN AND LAP 1 1/2".
2. CUT PARTS AS SHOWN AND BUTT TOGETHER.

MR-24/CMR-24 VARIABLE WIDTH PANELS							
FIELD WORK DETAILS							
DRAWN BY	CHECKED BY	GROUP NUMBER: 02-030-01					
ACM	RMC		5 000070				
FIRST RELEASE DATE		$I \; H \; I$	P-080876	(),51			
01/21/10	08/06/18	ו	1 000070				

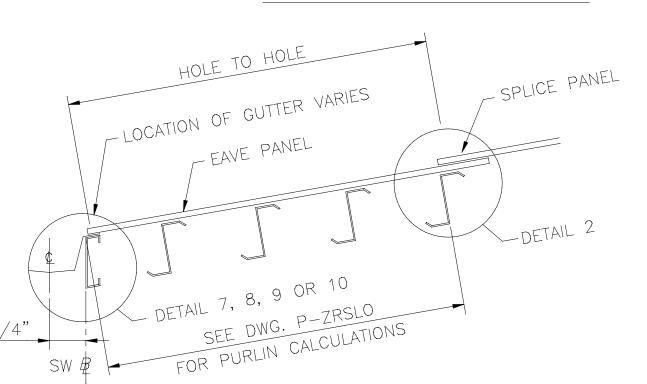




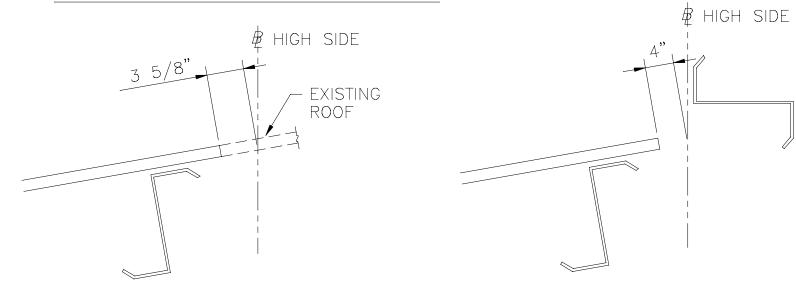




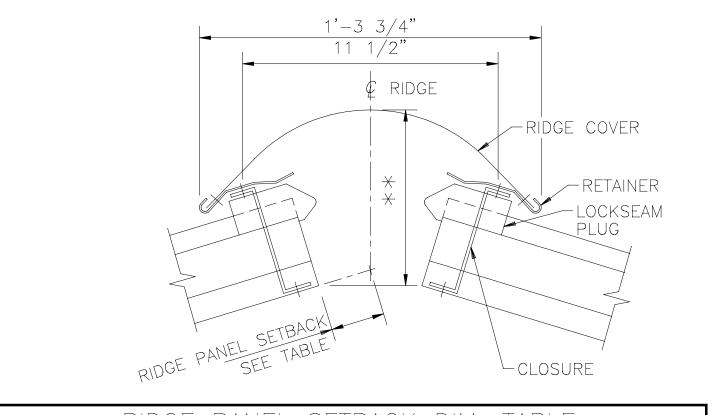
SINGLE SLOPE BUILDING



MULTIPLE GUTTER CONDITION



HIGH SIDE ATTACHING TO EXISTING BLDG.	PERPENDICULAR TRANS
SAME SLOPE - (SEE DWG P-080188)	AT HIGH SIDE



MR-24 LOW EAVE

	RIDGE PANEL SETBACK DIM. TABLE					
	LOPE		ROOF SURFACE WIDTH *			
		< 100'	100' < 150'	> 150'		
	/4:12	3 7/16"	3 1/4"	3 3/16"		
> 1/4:12	TO ≤ 1/2:12	3 7/16"	3 1/4"	3 1/16"		
> 1/2:12	TO ≤ 1:12	3 3/8"	3 3/16"	3"		
> 1:12 TC	$\leq 1 \ 1/2:12$	3 1/4"	3 1/16"	2 7/8"		
> 1 1/2:	12 TO ≤ 2:12	3 1/16"	2 7/8"	2 11/16"		
> 2:12 TC	$\leq 2 1/2:12$	2 15/16"	2 3/4"	2 9/16"		
> 2 1/2:	12 TO ≤ 3:12	2 3/4"	2 9/16"	2 3/8"		
> 3:12 TC	$\leq 3 1/2:12$	2 5/8"	2 7/16"	2 1/4"		
> 3 1/2:	12 TO ≤ 4:12	2 3/8"	2 3/16"	2"		
>	4:12	2 1/4"	2 1/16"	1 7/8"		

* ROOF SURFACE WIDTH IS HORIZONTAL STRUCTURAL WIDTH UNDER ONE ROOF SLOPE (INCLUDING ANY WX). THIS DIMENSION DOES NOT INCLUDE ANY CANOPY, OVERHANG OR EAVE/RIDGE ADJUSTMENT.

** VARIES BETWEEN 5" AND 8 1/2"

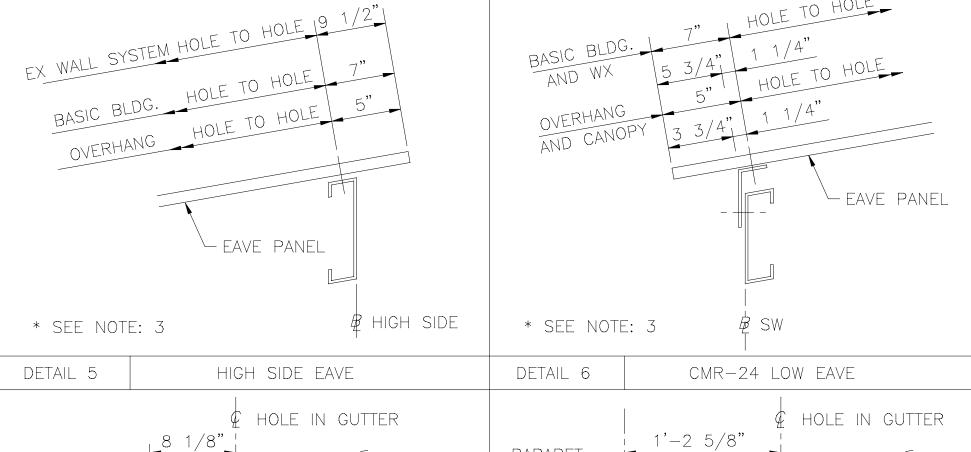
DETAIL 4	RIDGE OPENING	

NOTES:

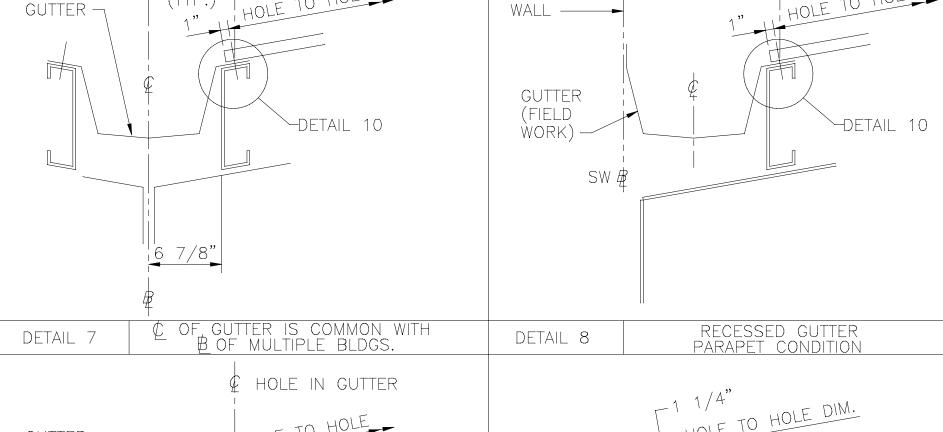
DETAIL 1

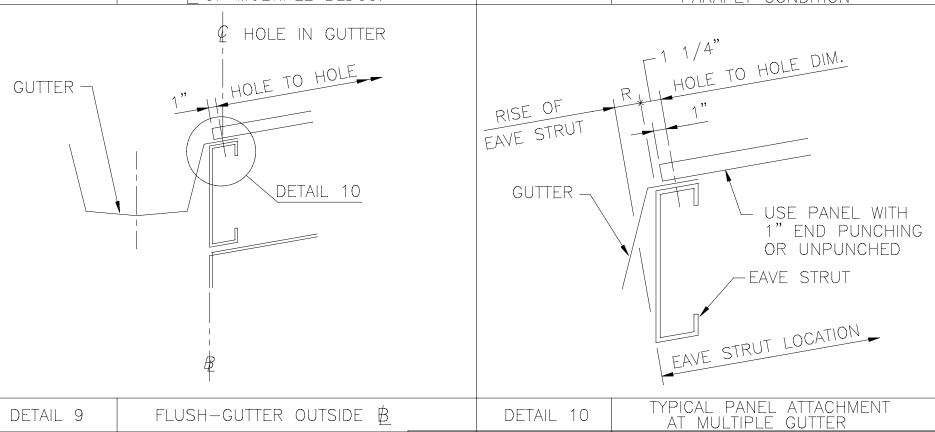
- 1. THE HOLE TO HOLE AND ₺ TO HOLE DIMENSION SHOULD BE DETERMINED FROM THE ROOF STRUCTURAL CALCULATOR DWG. P-ZRSLO BEFORE PROCEEDING TO THIS DRAWING. ADD PANEL MATERIAL SHOWN IN APPROPRIATE DETAILS TO DIMENSIONS DETERMINED FROM P-ZRSLO TO ARRIVE AT ROOF PANEL LENGTHS.
- 2. FOR MR-24 AND CMR-24 PANEL PART NUMBER SEE DWG. P-080570.
- 3. FOR MR-24 AND CMR-24 LITE*PANL SEE DWG. P-081659.
- 4. FOR BUILDINGS WITH ROOF SLOPES OF 3:12 AND GREATER, AND WITH SIDEWALL PANELS 4" INSULATED WALL PANEL, eSHADOWALL AND eSTYLWALL, THE EAVE PANEL MUST BE EXTENDED 1". PANEL WITH NO EAVE STRUT PUNCHING IS REQUIRED.

 EAVE TO RIDGE-OPERATION CODE = 11 EAVE TO SPLICE-OPERATION CODE = RH-10/LH-20.



PARAPET





MR-24 AND CMR-24 ROOF PANEL CALC FOR Z PURLINS

DRAWN BY CHECKED BY GROUP NUMBER: 02 030 02

JPV BJF
FIRST RELEASE DATE REVISION DATE 01/21/10 08/07/23

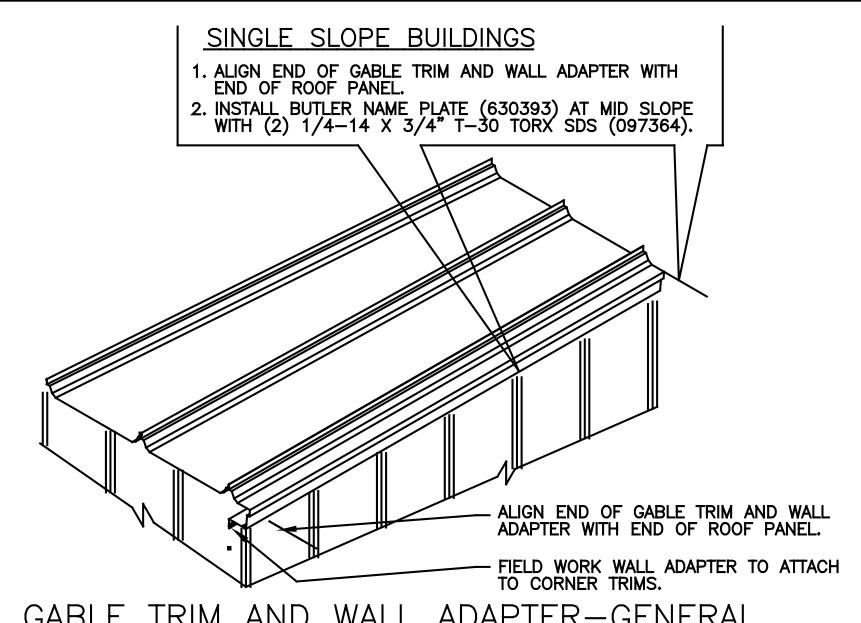
P-080949 07

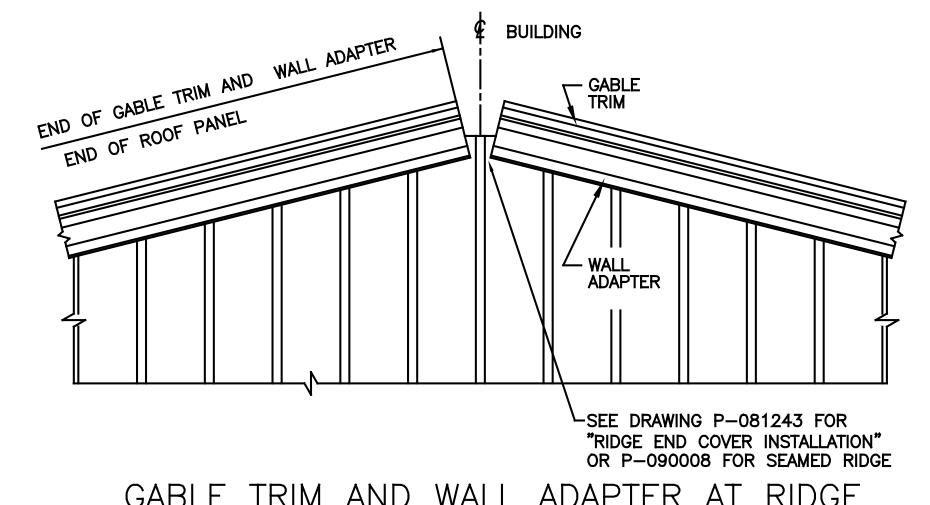
	ATE CORY	DRAWING TITLE	DWG. NO.	CATEGORY	DRAWING TITLE	DWG. NO.	CATEGORY	DRAWING TITLE	DWG. NO.	CATE
		MR-24 ROOF SYSTEM ERECTION MANUAL	P-004797		WIDE GUTTER, ASSELY. AND COMP'NTS.	P-DB00B2		WALL PNL. CALC. (ROOF TO WALL TRANS.)	P-080818	
		MR-24 WIDTH ADDITION TO EXISTING BLDG. MAXIMUM 50 FT. SAME SLOPE	P-080188		WIDE GUTTER INSTALLATION WITHOUT WEATHERSEAL	P-DB00B8		FLEXIBLE SEAL INSTALLATION STEPPED ROOF OR ROOF TO WALL TRANS.)	P-081525	
		MR-24 ROOF PANEL IDENTIFICATION	P-080570		WIDE GUTTER WITH WEATHERSEAL	P-080089		SUPPORT MEMBER INSTALL (STEPPED ROOF) STEPPED ROOF FLASH'G INSTALLATION	P-081526 P-081528	4
		MR-24 TRIM CLIP LOC. LOCKSEAM TAB AND PNL. CLIP ADAPTER	F-080572		MR/CMR-24 WEATHERSEAL FOR LOCAL TRIM MR/CMR-24 HIGH EAVE PNL, CLOSURE	P-D80378		END COVER INSTALLATION	P-081530	1
		MR-24 PANEL INSTALLATION	P-080575		FOR LOCAL TRIM MR/QMR-24 RIDGE TRANSITION AND EXTENSION	P-080583		PERP. ROOF TRANSITION PARALLEL TRANS SUPT ANGLE INSTALL	D 091571	+
		MR-24 PANEL CLIP INSTALLATION MR-24 END LAP SPLICE	P-080576 P-080577		MR/CMR-24 RIDGE TRANSITION AND EXTENSION MR/CMR-24 DRIP ANGLE INSTALL.	P-080720		(CMR-24 AND UN-INSUL PURLIN W/ MR-24)	P-081531	_
	ŀ	MR-24 RIDGE INSTALLATION	P-0803//		MR/CMR-24 WEATHERSEAL FOR LCCAL TRIM	P-DBOBO2		SHORT PARALLEL TRANSITION PANEL INSTALLATION	P-081532	
		MR/CMR-24 HAND SEAMER INSTRUCTIONS	P-08060D		CABLE TRIM AND WALL ADAPTER INSTALLATION (WITH RIDGE ASSEMBLY)	P-D81167		PARALLEL TRANS. SUPT ANGLE INSTALL (INSULATED PURLIN)	P-D81534	1
		MR/CMR-24 VALLEY FLASH, PARTS INSTALL.	P-080783 P-080784		INSIDE CORNER TRIM INSTALLATION-	P-081235		TALL PARALLEL TRANSITION PANEL INSTALLATION	P-081535	1
		MR/CMR-24 VALLEY FLASH. DETAILS	P-080785		NARROW CUTTER TO CABLE TRIM NARROW CUTTER CORNER CAP INSTALL.	P-081236		PARA / PERP TRANS. (SHORT AND TALL)	P-081537	1
		MR/CMR-24 HIP RIDGE PNL. PREP.	P-080786		INSTALLATION BUTLERIB II, MR-24/CMR-24			COUNTER FLASHING INSTALLATION PARALLEL TO PERP. TRANSITION		-
		MR/CMR-24 HIP RIDGE PARTS INSTALL.	P-0 8 0787		WIDE GUTTER, CORNER TRIM AND	P-081239		INSIDE CORNER WITHOUT CORRUGATION	P-081539	ROC
	ŀ	MR/CMR-24 HIP RIDGE DETAILS MR-24 HS EAVE CLIP AND PNL. CLIP REQMT.	P-080788 P-080789		COLLECTOR BOX INSTALL.	P-D81240		PARALLEL TO PERP. TRANSITION INSIDE CORNER WITH CORRUGATION	P-D81541	ACCI 50R
	ŀ	MR/CMR-24 MASTIC APPLICATION	P-080745		WIDE GUTTER SEALANT AND SUPPORT CHANNEL INSTALLATION	P-081241		RIDGE TO WALL SHORT TRANS. (W/O CORR.)	P-081546] 30,
		MR/CMR-24 VARIABLE WIDTH PANELS	P-080875	TRIM	RIDGE END COVER INSTALLATION			RIDGE TO WALL SHORT TRANS. (W/CORR.)	P-081547]
	ROOF PANELING	MR/CMR-24 CORR END DEFLECTOR	P-080918		(WITH RIDGE ASSEMBLY)	P-D81243		RIDGE TO WALL TALL TRANS. (W/O CORR.)	P-081548	4
'		MR/CMR-24 SEAM REINFORCING CLIP ASSBLY.	P-080951		INSIDE CORNER TRIM INSTALLATION EAVE TRIM TO GABLE TRIM	P-DB1244	70.43.40.1	RIDGE TO WALL TALL TRANS. (W/CORR.) PARALLEL TO PERP. TRANSITION	P-081549	4
		MR-CMR-24 ROOF WITHOUT RIDGE	P-081257		WIDE GUTTER INSIDE CORNERS	P-DB1246	TRANSI— TIONS	INSIDE/OUTSIDE CORNER WITH CORR.	P-081552	
		MR-24 SUB PURLIN INSTALLATION	P-081598		VARIABLE WALL ADAPTER INSTALLATION	P-081259		PARALLEL TO PERP. TRANSITION INSIDE/OUTSIDE CORNER WITHOUT CORR.	P-081553	
	-	MR-24 SEAMER PLATFORM ASS'Y AND USAGE MR-24 REPAIR CLIP INSTALLATION	P-081616 F-081680		EW TRIM REINFORCING CLIP (HIGH WIND LOAD APPLICATION)	P-DB1635		END COVER INSTALLATION	P-081554	1
		MR-24/CMR-24 PANEL CLOSURE INSTALL.	F-103247		NARROW GUTTER ASSEMBLY	P-103223		STEPPED ROOF (WITH SUPPORT MBR.) PERPENDICULAR R TO W TRANSITION		+
		MR-24 ENDWALL EXT./ROOF REPLACEMENT	P-105528		MR/CMR-24 GUTTER EXPANSION JOINT	P-103315		WITH SOLID WALL	P-081564	-
		MR-24/CMR-24 PANEL CLOSURE INSTALL.	P-105634] [BIRD STOP INSTALL, - GABLE TRIM	P-104542		PERPENDICULAR R TO W TRANSITION	P-081568	
		MR-24 SINGLE PANEL REPAIR MR-24/CMR-24 PANEL REPAIR CAP INSTALL.	P-107 6 56 P-107 6 57		SOFFIT TRIM DETAILS CORNER CAP INSTALLATION	P-1D4544		PERPENDICULAR TRANSITION SHORT PERP. FLASHING INSTALLATION	P-081572	
		MR-24/CMR-24 MULT, PANEL REPAIR	P-107743		EAVE TRIM	P-104549		PERPENDICULAR TRANSITION WITH OPEN WALL TALL PERP, FLASHING INSTALLATION	P-081573]
		MR-24 MULTIPLE PANEL REPAIR	P-107744		NARROW GUTTER INSTALL. W/O WEATHERSEAL NARROW GUTTER INSTALL. W/WEATHERSEAL	P-104713 P-104714		PARALLEL TRANSITION INSTALLATION	P-081613	}
	ŀ	MR-24 MULTIPLE PANEL REPAIR	P-107745		TOTAL OF THE TOTAL	1 191711		TO EXISTING BLDG — NO WIDTH ADD. PARALLEL TRANSITION INSTALLATION		4
	ŀ	MR-24 SEAMED RIDGE ROOF SYSTEM	P-090006					TO EXISTING BLDG — FOR WIDTH ADD.	P-D81614	4
		MR-24 SEAMED RIDGE ROOF SYSTEM			MR-24 SEAMED RIDGE ROOF SYSTEM RIDGE END COVER INSTALL. WITH RIDGE ASSY.	F-D90008		CORRUGATION TRANSITION INSTALLATION GENERAL INFO AND CLIP INSTALL 1 OF 5	P-081675	_
		PANEL INSTALLATION	P-090007		MR-24 SEAMED RIDGE ROOF SYSTEM INTERIOR RIDGE TRIM INSTALLATION	P-090010		CORRUGATION TRANSITION INSTALLATION SEAMING OPERATION 2 OF 5	P-081676	_
		MR-24 SEAMED RIDGE ROOF SYSTEM ROOF PANEL FIELD NOTCHING DETAILS	P-090011		CONDUCTOR PIPE INSTALLATION AND DETAILS	P-OBDD91		CORRUGATION TRANSITION INSTALLATION SILICONE MEMBRANE AND COVER 3 OF 5	P-081677	
		MR-24 SEAMED RIDGE ROOF SYSTEM SPLICE DETAIL AND RIDGE PANEL FIELD HOLES	F-090012	CONDUC-	COLLECTOR BOX INSTALL - NARROW GUTTER	P-103225		CORRUGATION TRANSITION INSTALLATION 5PECIFIC DETAILS 4 OF 5	P-081678]
	_G5. WITH	MR/CMR-24 ROOF PANEL CALCULATOR	P-0 8 1113	TOR PIPE	CONDUCTOR PIPE INSTALLATION CONDUCTOR PIPE DETAILS	P-105224 P-105225		CORRUGATION TRANSITION INSTALLATION	P-081679	-
	TRU55	ROOF STRUCTURALS FOR ROOF PNL. CALC.	M-149099		CONDUCTOR PIPE DETAILS	P-105228		RIDGE AND PERP. TRANS. 5 OF 5	P-ubiu/8	4
- Ri	_GS. WITH	MR/CMR ROOF PANEL CALCULATOR	F-080949					MR-24 SEAMED RIDGE ROOF SYSTEM RIDGE PANEL AT PARALLEL TRANSITION	P-090009	<u> </u>
	PURLIN	ROOF STRUCTURALS FOR ROOF PANEL CALCULATIONS	P-ZRSLO				MEMBRANE .	PERPENDICULAR TRANSITION MEMBRANE ROOF TO METAL ROOF	P-081574	
'-				•			MEMBRANE	PARALLEL TRANSITION MEMBRANE ROOF TO METAL ROOF	P-081575	1
								INTERIOR GUTTER CORNER INSTALLATION ROOF TO WALL	P-080189	1
		NOTEO						INTERIOR CUTTER PAR. TO INSIDE CORNER	P-081543	1
		NOTES:						INTERIOR GUTTER PAR. TO INSIDE CORNER	P-081545	1
		1. THE ABOVE DRAWINGS PERTAIN TO WID FOR THE ROOF SECONDARY, THESE BU			· · · · · · · · · · · · · · · · · · ·			FLASHING WITH CORRUGATION PARALLEL TO PARAPET GUTTER		4
		MEMBER), GABLE ANGLES OR RAKE CH STANDARD LOCATIONS, FOR PANEL AN	IANNELS AT	THE BUILDIN	S STRUCTURE LINE, AT		INTERIOR	WITH AND WITHOUT CORRUGATION	P-081550	4
		ROOF PANEL, TRIM AND ACCESSORY 2. ONLY THOSE DRAWINGS REQUIRED ON	DRAWINGS AS	SSOCIATED W			GUTTERS	PARALLEL TRANS. TO VALLEY GUTTER WITH AND WITHOUT CORRUGATION	P-D81551	_
		Z VINLI INUSE DRAWINGS REWUIRED UN	A SPEWING B					MULT. GUTTER STOP FLASHING MULT. GUTTER GABLE TRIM	P-105525 P-105526	-
								MULT. GUTTER EXPANSION JOINT	P-105533	+
								MULT. GUTTER SPECIAL APPLICATIONS	P-105534	1
								WELD PROCEDURES FOR SS GUTTERS	P-105846]
								SUGGESTED FIELD FABRICATION COLLECTOR BOX AND SCREEN	P-107134	

	THERMAL SPACER BLOCK INSTALLATION	P-D80574
	SKY-WEB PRODUCT DETAILS	P-080940
	SKY-WEB INSTALL, ON BLDG. STRUCT.	P-080941
	SKY-WEB ATTACHMENT DETAILS	P-080942
	SKY-WEB ASSEMBLY DAMAGE	P-080950
	IFCURB INSTALLATION PROCEDURES PANEL PREPARATION	P-0 0 1153
	IFCURB INSTALLATION PROCEDURES DIVERTER PLATE AND CURB	P-061154
	IFCURE INSTALLATION ELEVATED FRAME AT CARRY BEAMS	P-DB1654
	IFCURB INSTALLATION DOUBLE WALL — FURLIN CUTTING RED'D	P-D 8 1655
	IFCURB INSTALLATION DOUBLE WALL — NO PURLIN CUTTING RED ⁴ D	P-08165 6
	IFCURE INSTALLATION CARRY BEAMS - PURLIN CUTTING REQ'D	P-061657
	IFCURB INSTALLATION CARRY BEAMS - NO PURLIN CUTTING REQ'D	P-081658
-	LITE*PANL PLACEMENT	P-DB1659
3	UNINSULATED LITE*PANL-UNINSULATED PURLIN	P-DB1660
	INSULATED LITE*PANL-UNINSULATED PURLIN	P-DB1661
	UNINSULATED LITE*PANL-INSULATED PURLIN	P-DB1662
	INSULATED LITE*PANL-INSULATED PURLIN	P-DB1663
	UL \$0 UNINSULATED LITE*PANL FOR UNINSULATED PURLINS	P-DB1564
	UL 90 INSULATED LITE*PANL FOR UNINSULATED PURLIN	P-081665
	UL 90 UNINSULATED LITE*PANL FOR INSULATED PURLIN	P-DB1666
	UL 90 INSULATED LITE*PANL FOR INSULATED PURLIN	P-081667
	LITE*PANL REPLACEMENT - DRAWING 1 OF 1	P-081681
	RIDGE VENTILATOR DETAILS	P-107551
	RIDGE VENTILATOR PREPARATION DETAILS	P-107552
	RIDGE VENTILATOR INSTALLATION	P-107553
	CONTINUOUS RIDGE VENTILATOR INSTALL.	P-1D7559

DRAWING TITLE

DWG. NO.





GABLE TRIM AND WALL ADAPTER AT RIDGE DOUBLE SLOPE BUILDINGS

DOWN SLOPE GABLE TRIM-

GABLE TRIM AND WALL ADAPTER SPLICE

GABLE TRIM AND WALL ADAPTER-GENERAL

GABLE TRIM AND WALL ADAPTERS FURNISHED TO LENGTH SHOWN IN PARTS SCHEDULE. FIELD CUT TO LENGTH REQUIRED.

WALL ADAPTER PART SCHEDULE						
WALL PANEL	PART NUMBER	LENGTH				
NON-BMC WALL (SEE DWG, P-081259)	VWA10					
BUTLERIB II, SHADOWALL, STYLWALL II FLAT AND FLUTED, ALL (2") TEXTURED AND INSULATED WALL PANEL	WA10A					
ALL (2 1/2") TEXTURED AND INSULATED WALL PANEL ALL (3") TEXTURED AND INSULATED WALL PANEL OPEN ENDWALL OVERHANG AND CANOPY	WA10B	10'-4 1/2"				
ALL (4") TEXTURED AND INSULATED WALL PANEL	WA10C					

GABLE TRIM PART SCHEDULE					
LEFT HANDED PANELS RIGHT HANDED PANELS LENGTH					
LEFT SLOPE	RIGHT SLOPE	LEFT SLOPE	RIGHT SLOPE		
PART NO.	PART NO.	PART NO.	PART NO.	20'-6 7/8"	
MRGTL20L	MRGTL20R	MRGT20L	MRGT20R		

UP SLOPE ENDS OF GABLE TRIM ARE NOTCHED. AND SWEDGED. (2) 1/4-14 X 3/4" T-30 TORX SDS (097364) UP SLOPE WALL ADAPTER — — SLIP UP SLOPE GABLE TRIM OVER DOWN SLOPE GABLE TRIM. NOTCH BOTTOM PORTION
OF CORNER TRIM AS REQUIRED
TO CLEAR WALL PANEL
CORNER. — ATTACH WALL ADAPTER WITH 1/4-14 X 3/4" T-30 TORX SDS GABLE TRIM SPLICE (097364) 2'-0" O.C.¬ DOWN SLOPE WALL ADAPTER — LWALL CORNER TRIM WALL ADAPTER SPLICE CORNER TRIM (630043) GABLE TRIM AND WALL ADAPTER SLIPS OVER AND AROUND CORNER TRIM. ✓ FASTENER GROOVE

GABLE TRIM AND WALL ADAPTER ASSEMBLY

INSULATED WALL PANEL

WALL ADAPTER

-URETHANE SEALANT (HW54_) CONTINUOUS (BY PANEL SUPPLIER)

ERECTION SEQUENCE:

- 1. SNAP CHALK LINE ON FACE OF WALL PANEL AT 5" DIMENSION SHOWN ABOVE.
- 2. ATTACH WALL ADAPTER TO WALL PANEL, ALIGNING HORIZONTAL LEG WITH CHALK LINE. LOCATE TORX FASTENERS AT FASTENER GROOVE IN WALL ADAPTER.

- PANEL CLOSURE (7607UGR) FOR FLUTED PANEL ONLY (BY PANEL SUPPLIER)

INSULATED WALL PANEL

GABLE TRIM (SEE SCHEDULE)

1/4-14 X 3/4" T-30 TORX SDS (097364) 2'-0" O.C.

WALL ADAPTER (SEE SCHEDULE)

- WALL PANEL

- 3. ENGAGE GABLE TRIM CORRUGATION TO ROOF PANEL CORRUGATION. ENGAGE LOWER LEG OF GABLE TRIM INTO WALL ADAPTER. USING HAND PRESSURE, SNAP GABLE TRIM INTO WALL ADAPTER. VISUALLY CHECK TO ASSURE GABLE TRIM IS FULLY ENGAGED INTO WALL ADAPTER.
- 4. SEAM GABLE TRIM TO ROOF PANEL.

NOTES:

SEAM ROOF PANEL TO TRIM-

MR-24 ROOF PANEL-

— UP SLOPE GABLE TRIM

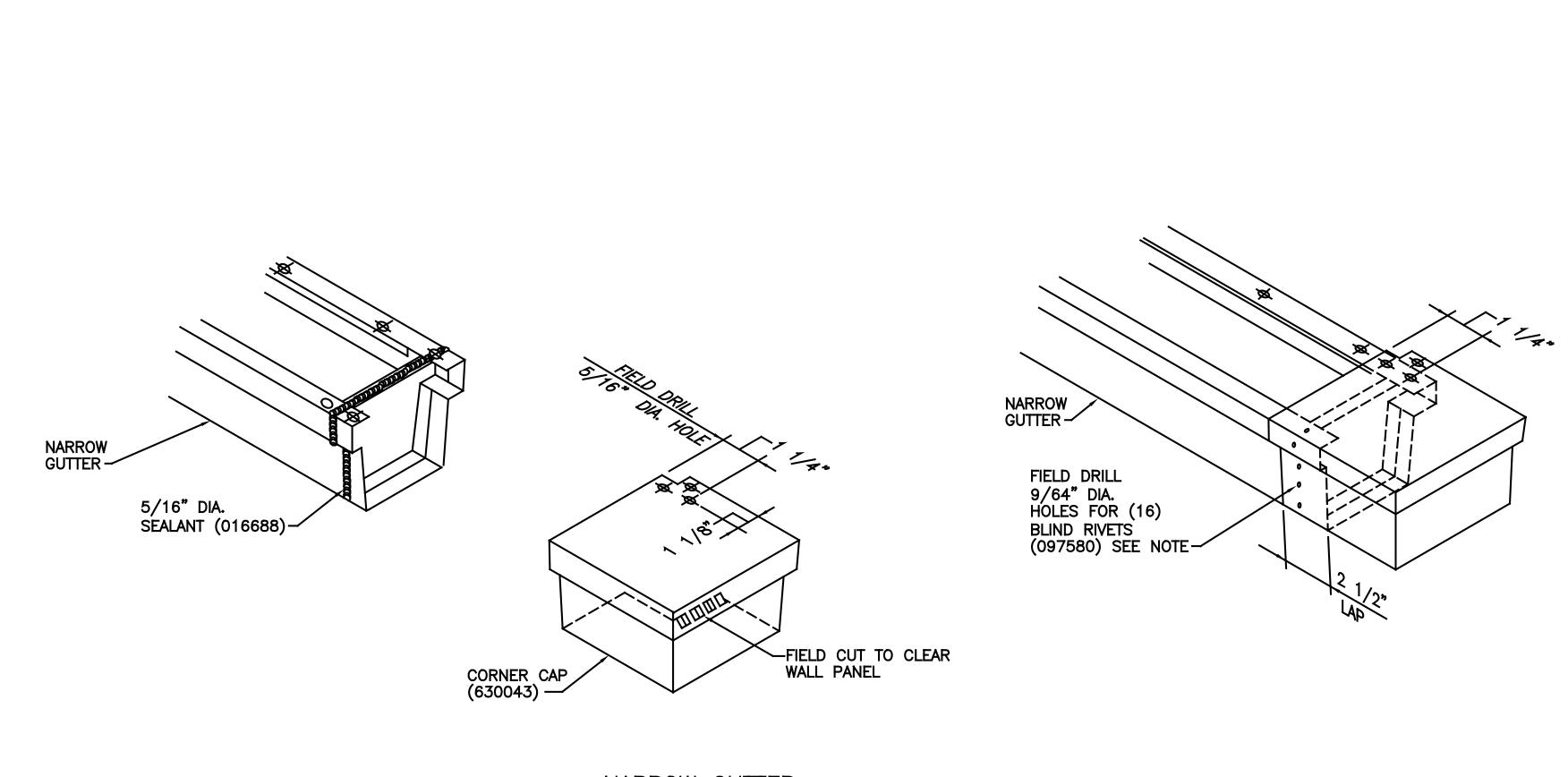
-SECURE GABLE TRIM SPLICE

WITH (2) 1/4-14 X 3/4" T-30 TORX SDS (097364)

- 1. SEE ERECTION DRAWING P-081635 IF HIGH WIND GABLE TRIM CLIPS ARE REQUIRED.
- 2. BUILDINGS WITH WIDTH EXTENSION AND CANOPY TRANSITION THAT IMPOSES SLOPE CHANGE, FIELD MITER GABLE TRIM AND ADAPTER FOR SMOOTH FIT UP.
- 3. SEE DRAWING P-081243 FOR END RIDGE COVER INSTALLATION.

MF	R-24/CMI	R-2	24 GABLE TRIM LL. WITH RIDGE ASSE	
AND WALL	ADAPTOR IN	NSTAI	LL. WITH RIDGE ASSE	MBLY
DRAWN BY	CHECKED BY		GROUP NUMBER: 02 - 001 -	02
ACM FIRST RELEASE DATE	RHE REVISION DATE	D	P-081167	<u> </u>
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GABLE TRIM TO CORNER TRIM

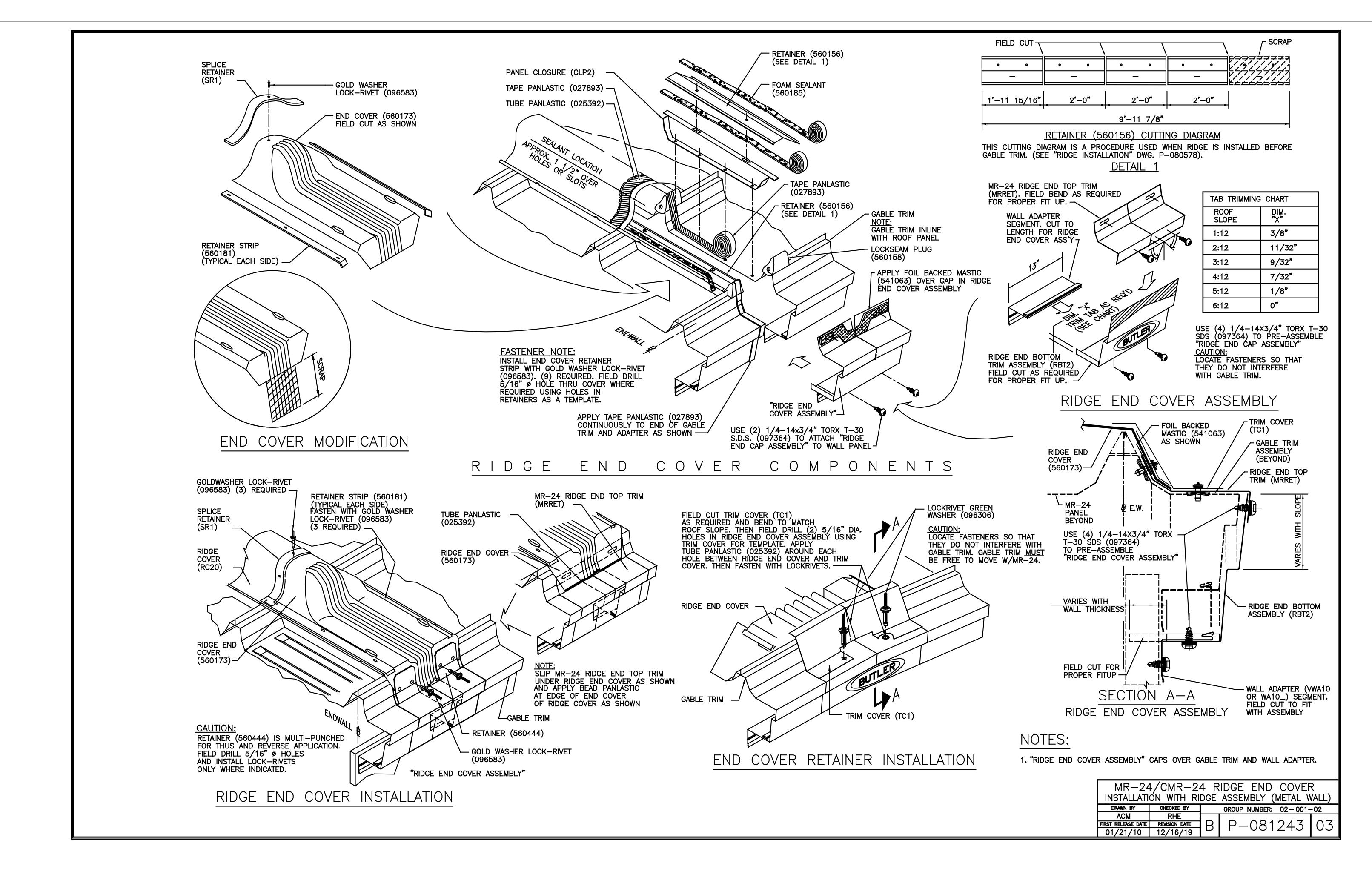


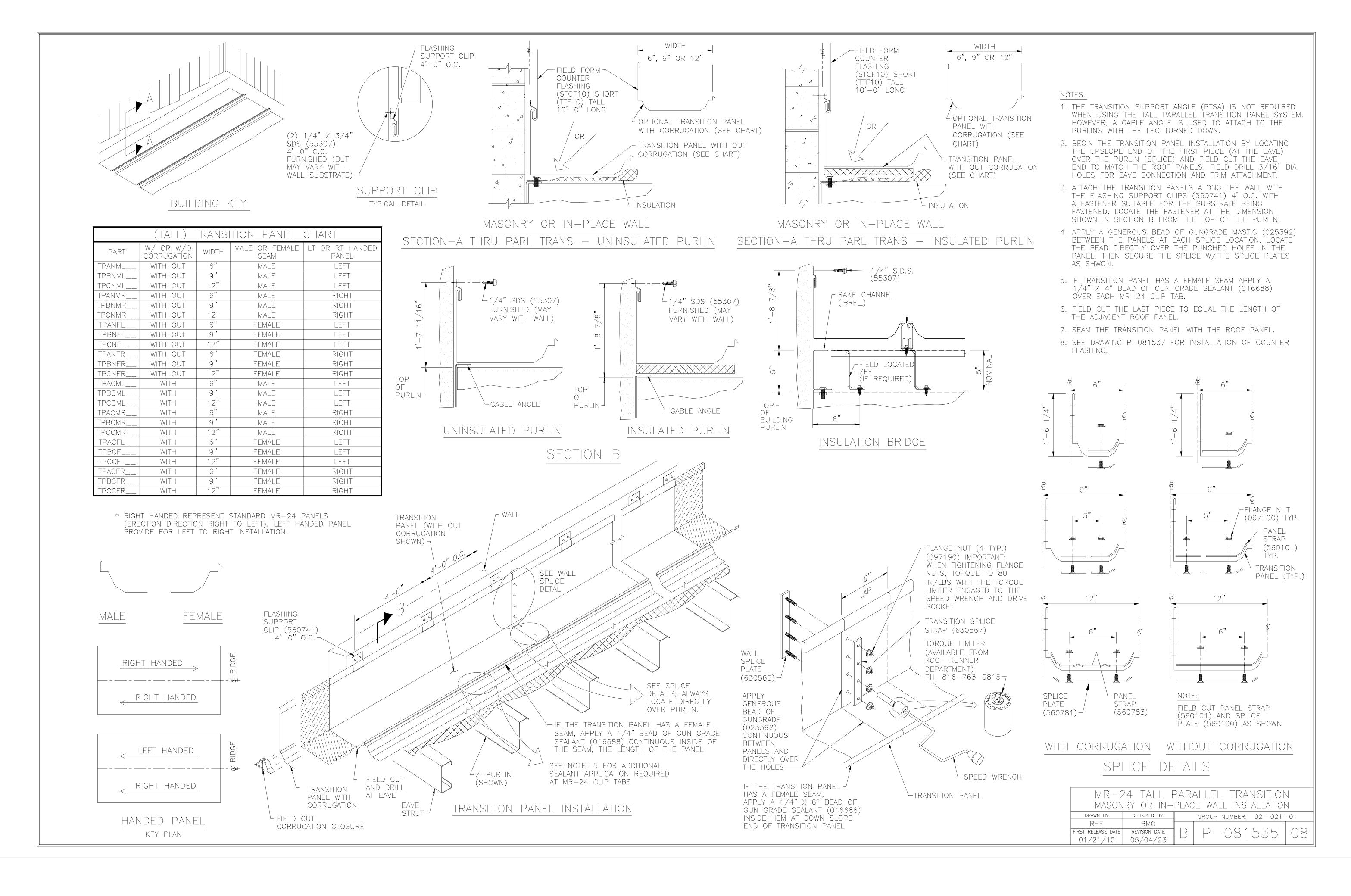
NARROW GUTTER

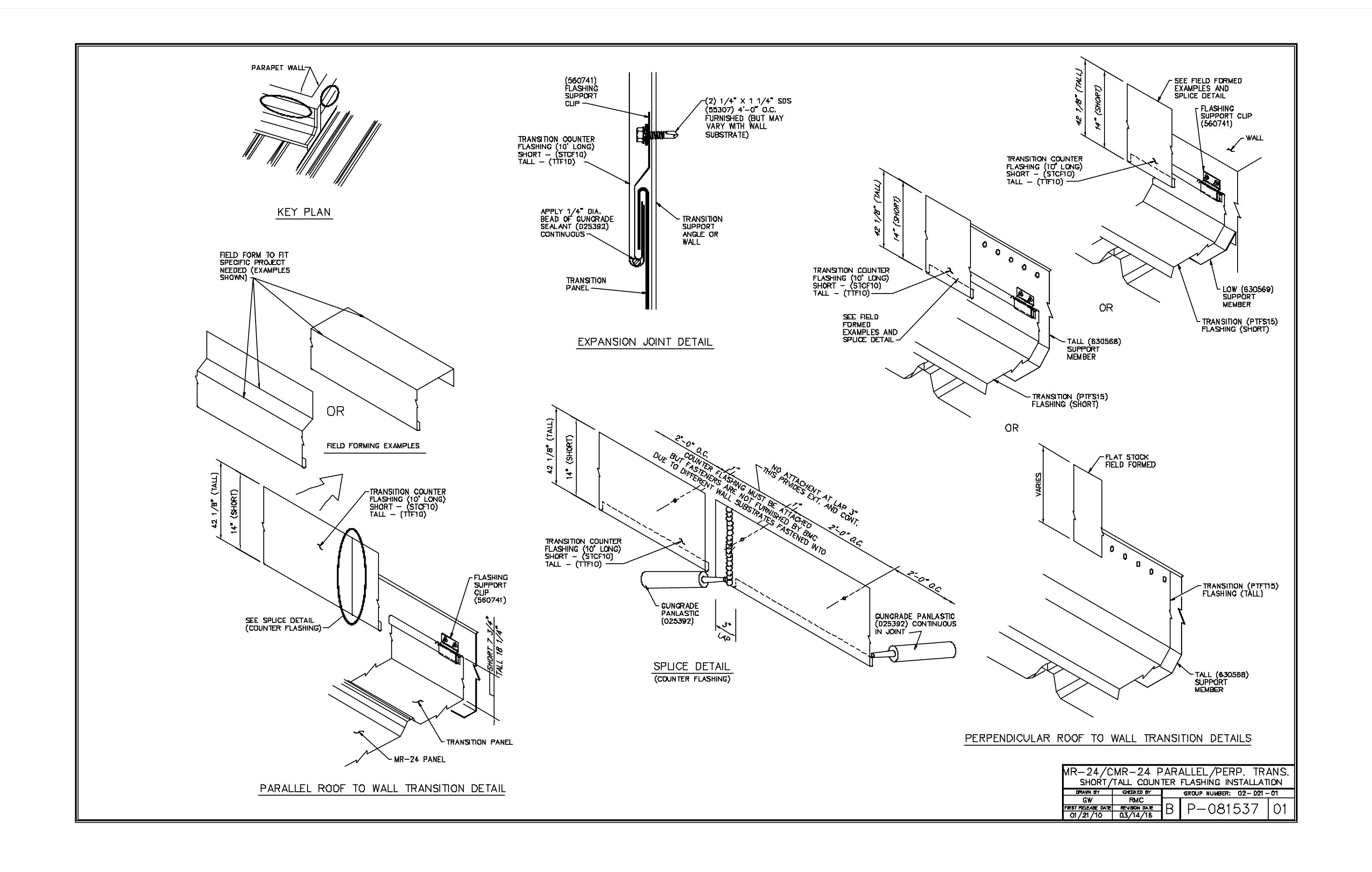
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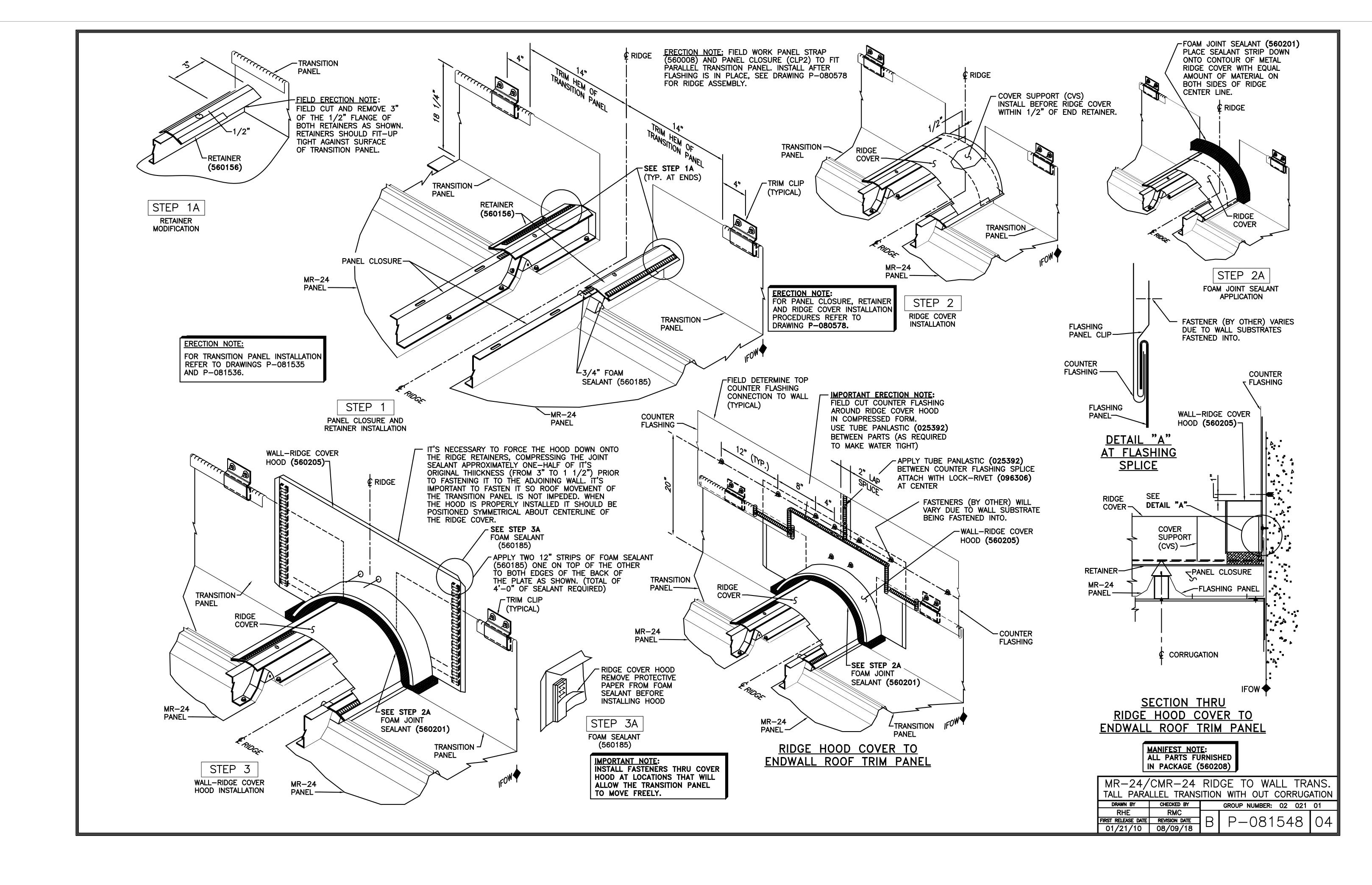
SEE DRAWING P-081764 FOR BLIND RIVET COLOR INFORMATION.

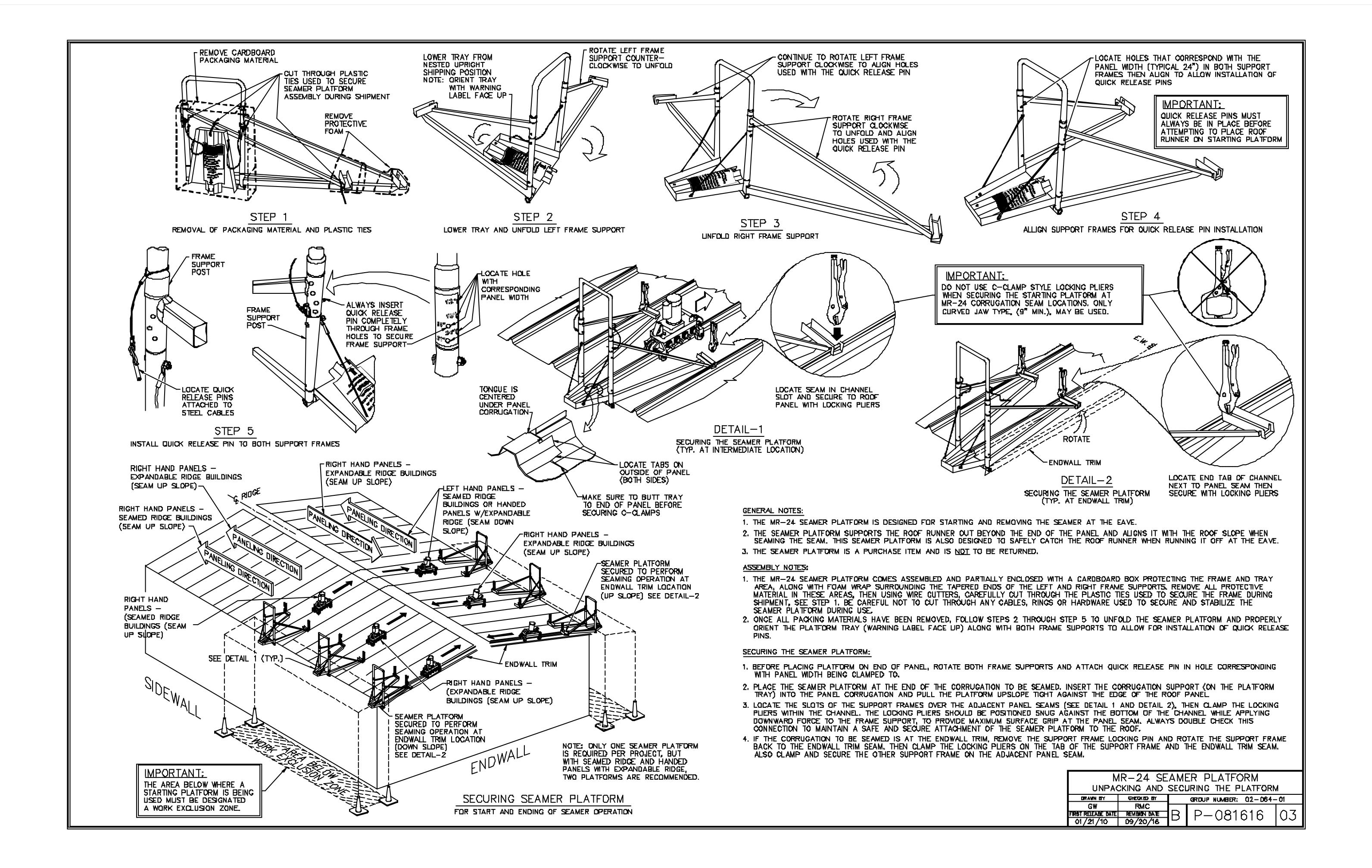
NARROW GUTTER CORNER CAP INSTALLATION – ALL ROOFS					
L	DRAWN BY	CHECKED BY	GROUP NUMBER: 01-004-01		- 01
L	CAG	MEC			
	FIRST RELEASE DATE	REVISION DATE	IR	P-081236	I N4 I
	01/21/10	12/04/18	ט	1 001230	











SAFETY PRECAUTIONS

SAFETY MUST BE A PRIME CONCERN THROUGHOUT THE ENTIRE ERECTION PROCESS. THESE INSTRUCTIONS CONTAIN SAFETY INFORMATION THAT IS IMPORTANT FOR ALL WORKERS TO KNOW AND UNDERSTAND. IN ADDITION, LOCAL, STATE AND OSHA SAFETY REGULATIONS MUST BE FOLLOWED AT ALL TIMES. THE ERECTION CONTRACTOR HAS THE ULTIMATE RESPONSIBILITY FOR THE SAFETY OF THE WORKERS AND MUST COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS.

RECOGNIZE SAFETY INFORMATION



THIS IS THE SAFETY—ALERT SYMBOL. WHEN YOU SEE THIS SYMBOL IN THESE INSTRUCTION, BE ALERT TO THE POTENTIAL FOR PERSONAL INJURY. FOLLOW RECOMMENDED PRECAUTIONS AND SAFE PRACTICES.

FOLLOW SAFETY INSTRUCTIONS

CAREFULLY READ ALL SAFETY MESSAGES IN THESE INSTRUCTIONS AS WELL AS MR-24 ERECTION MANUAL, ALL APPLICABLE DRAWINGS AND THE ROOFING WORK SAFETY INSTRUCTIONS AND ROOF PANEL WARNING LABEL THAT ARE SHIPPED WITH THE ROOF MATERIALS.

THE FOLLOWING WARNING DECAL IS ATTACHED TO THE SEAMER PLATFORM PAN.



- DO NOT STEP ON PLATFORM PAN.
- DO NOT LEAN ON PLATFORM.
- DO NOT STRADDLE PLATFORM LEGS.
- MAKE SURE LOCKING PLIERS ARE SECURELY CLAMPED ONTO PANELS.
- ALWAYS USE FALL PROTECTION.

IMPORTANT:

CORRUGATION SUPPORT MUST BE FULLY INSERTED INTO CORRUGATION.



FAILURE TO HEED THESE WARNINGS CAN RESULT IN SERIOUS INJURY OR EVEN DEATH.

IF THE WARNING DECAL BECOMES ILLEGIBLE, ORDER A FREE REPLACEMENT FROM THE ROOF RUNNER OPERATIONS DEPARTMENT.

IN ADDITION, FOLLOW THESE GUIDELINES DURING ALL ROOF RUNNER SEAMING OPERATIONS:

- ALWAYS USE FALL PROTECTION AND WALKBOARDS WHEN INSTALLING PANELS OR WORKING NEAR ROOF EDGES.
- MAKE SURE SEAMING FOLOWS LAYING OF PANELS AS CLOSELY AS POSSIBLE AND USE FALL PROTECTION.
 LOCKING PLIERS (NOT BY BUTLER MANUFACTURING COMPANY) USED TO ATTACH SEAMER PLATFORM TO PANELS MUST BE IN
- GOOD CONDITION AND ADJUSTED TO RESIST A GOOD HARD PULL (60 POUNDS). ALWAYS DOUBLE CHECK SECURENESS OF LOCKING PLIERS EACH TIME THE SEAMER PLATFORM IS SECURED TO THE ROOF CORRUGATIONS.
- NEVER STEP ON THE SEAMER PLATFORM PAN.
 NEVER "RIDE" THE ROOF RUNNER OR BLOCK VENTS ON THE MOTOR IN ANY WAY.
- PANELS NOT FULLY SEAMED CAN COLLAPSE OR SLIDE OUT FROM UNDER YOU, ALWAYS USE FALL PROTECTION AND WALKBOARDS WHEN INSTALLING PANELS OR WORKING NEAR ROOF EDGES, MAKE SURE SEAMING FOLLOWS THE LAYING OF PANELS AS CLOSELY AS POSSIBLE.



WARNING: NEVER TIE POWER CORDS TOGETHER OR TO THE ROOF RUNNER



CAUTION

KEEP THE PATH OF THE ROOF RUNNER CLEAR AT ALL TIMES AND POWER CORDS FREE OF ENTANGLEMENTS. A NON-LOCKING PLUG IS SUPPLIED SO THAT IT WILL UNPLUG ITSELF SHOULD THE POWER CORD BECOME ENTANGLED. DO NOT DEFEAT THIS SAFETY FEATURE BY TYING THE POWER CORD TO THE MOTOR LEAD OR TO THE ROOF RUNNER. ADDITIONALLY, TOWING OF THE POWER CORD(S) CAN CAUSE IMPROPER SEAMS TO BE



WARNING.

DON'T RIDE THE ROOF RUNNER OR BLOCK VENTS ON THE MOTOR IN ANY WAY.



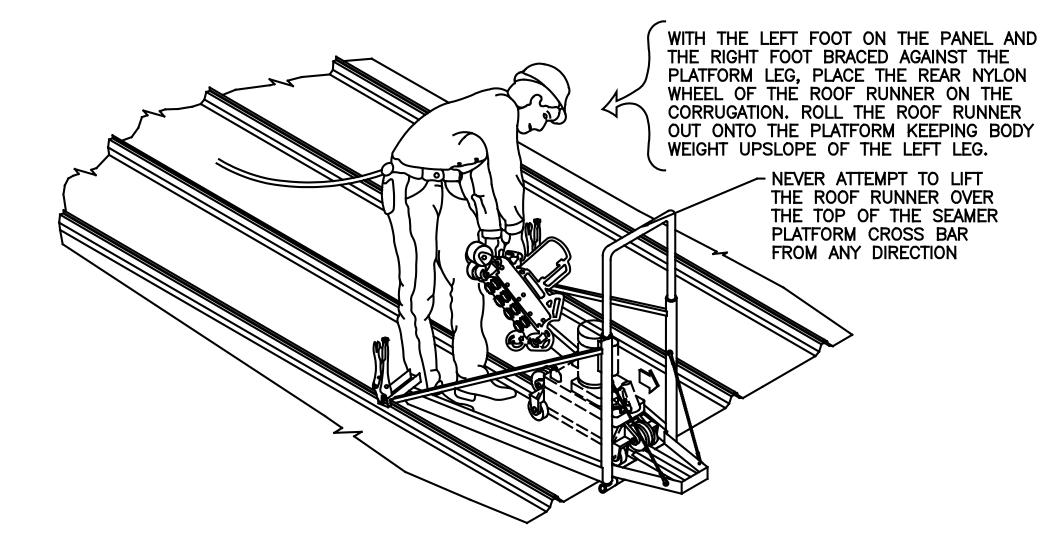
WARNING

PANELS NOT FULLY SEAMED CAN COLLAPSE OR SLIDE OUT FROM UNDER YOU. ALWAYS USE FALL PROTECTION AND WALKBOARDS WHEN INSTALLING PANELS OR WORKING NEAR ROOF EDGES. MAKE SURE SEAMING FOLLOWS THE LAYING OF PANELS AS CLOSELY AS POSSIBLE.



CAUTION:

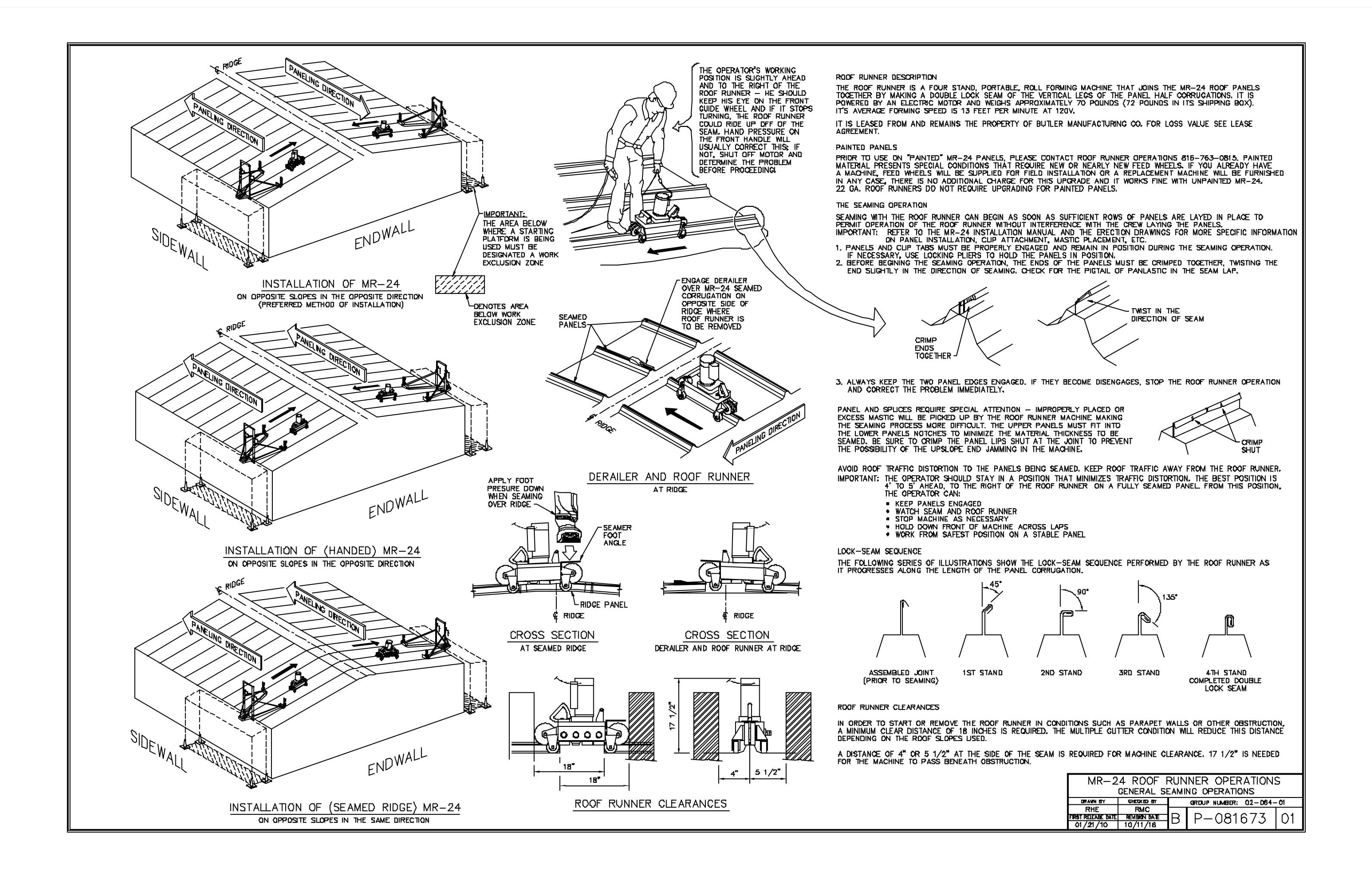
ALL ELECTRICAL SERVICE MUST BE PROPERLY GROUNDED, AND MUST INCLUDE A GROUND FAULT INTERRUPTER!



WARNING:

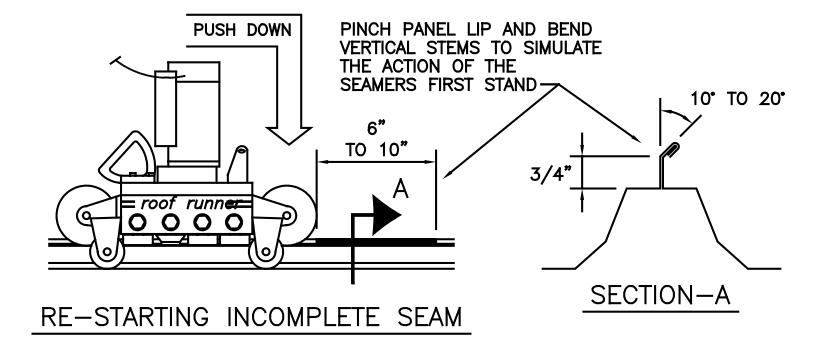
NEVER STRADDLE THE PLATFORM OR COUNTERBALANCE THE ROOF RUNNER WITH YOUR WEIGHT.

MR-24 ROOF RUNNER OPERATIONS SAFETY PRECAUTIONS					
	SAFEIY	PR	ECAUTIONS		
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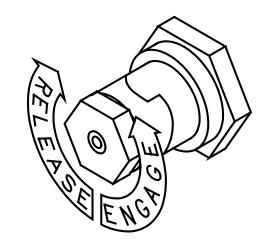


TIPS FOR TROUBLE FREE OPERATION

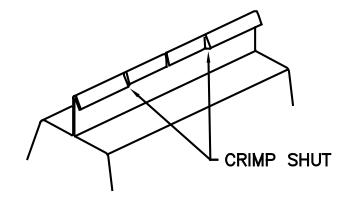
- 1. SAFE AND CORRECT SEAMING REQUIRES ALL MACHINE OPERATORS TO BE FAMILIAR WITH THE MACHINE FEATURES, BE SURE THEY ARE AWARE OF THE PROPER MATERIAL FLOW THROUGH THE FEED WHEELS SO THAT THEY CAN SPOT A MALFUNCTION QUICKLY AND CAN CORRECT ITS CAUSE IMMEDIATELY. IMPROPER SEAMS LONGER THAN 5 FEET ARE DIFFICULT TO REPAIR AS THEY INVOLVE THE PANEL CLIPS AND TABS.
- 2. ALWAYS USE A SEAMER PLATFORM.
- 3. MAKE SURE THE FEED WHEELS ARE KEPT CLEAN, ESPECIALLY ON PAINTED MATERIAL! (SEE MAINTENANCE)
- 4. MANY SEAMING PROBLEMS ARE THE RESULT OF MIS-ALIGNED PURLINS AND/OR FRAMES. A SUDDEN CHANGE IN DIRECTION (1/4" IN 5'-0") CAN CAUSE AN INCORRECT SEAM. A GOOD RULE TO FOLLOW IS TO "STRING LINE" THE PURLIN HOLES IN EACH BAY BEFORE PANELING.
- 5. BE SURE THE PANELS ARE PROPERLY ENGAGED PRIOR TO SEAMING. USE LOCKING PLIERS TO HOLD THEM IN POSITION AS REQUIRED. SHOULD AN INCOMPLETE SEAM OCCUR, STOP THE ROOF RUNNER IMMEDIATELY! AN INCOMPLETE SEAM CAN USUALLY BE RESTARTED BY BENDING THE PANEL STEMS SEVERAL INCHES AHEAD OF THE SEAMER. IN THE DIRECTION OF SEAMING.



- 6. WATCH TO SEE THAT THE LARGE FRONT AND REAR GUIDE WHEELS ARE BEARING ON THE CORRUGATION. THE WHEELS SHOULD TURN THROUGHOUT THE SEAMING OPERATION (AT CLIPS AND END SPLICES THEY MAY STOP MOMENTARILY, BUT SHOULD RESUME TURNING AGAIN IMMEDIATELY).
- 7. CAM RELEASES ARE PROVIDED FOR THE PURPOSE OF DISENGAGING THE MACHINE FROM THE PANEL. THEY SHOULD BE USED ONLY WHEN ABSOLUTELY NECESSARY. A LARGE ADJUSTABLE WRENCH OR 30 MM SOCKET IS REQUIRED AND THE PROCESS SHOULD BE DONE SLOWLY AND WITH GREAT CARE AS THERE ARE SEVERAL CAST PIECES INVOLVED THAT ARE UNDER HEAVY SPRING PRESSURE. THESE PIECES WILL BREAK IF EXTREME CARE IS NOT USED TO RELEASE AND ENGAGE THE CAM.



8. PANEL AND SPLICES REQUIRE SPECIAL ATTENTION — IMPROPERLY PLACED OR EXCESS MASTIC WILL BE PICKED UP BY THE ROOF RUNNER MACHINE MAKING THE SEAMING PROCESS MORE DIFFICULT. THE UPPER PANELS MUST FIT INTO THE LOWER PANELS NOTCHES TO MINIMIZE THE MATERIAL THICKNESS TO BE SEAMED, BE SURE TO CRIMP THE PANEL LIPS SHUT AT THE JOINT TO PREVENT THE POSSIBILITY OF THE UPSLOPE END JAMING THE ROOF RUNNER MACHINE.



9. AVOID ROOF TRAFFIC DISTORTION TO THE PANELS BEING SEAMED. KEEP ROOF TRAFFIC AWAY FROM THE ROOF RUNNER.

IMPORTANT: THE OPERATOR SHOULD STAY IN A POSITION THAT MINIMIZES TRAFFIC DISTORTION. THE BEST POSITION IS 4' TO 5'
AHEAD, TO THE RIGHT OF THE ROOF RUNNER
THE OPERATOR CAN:

- KEEP PANELS ENGAGED
- * WATCH SEAM AND ROOF RUNNER
- STOP MACHINE AS NECESSARY
- HOLD DOWN FRONT OF MACHINE ACROSS LAPS
- WORK FROM SAFEST POSITION ON A STABLE PANEL

MAINTENANCE FOR THE SEAMER PLATFORM

ALL MAINTENANCE AND REPAIRS ARE THE RESPONSIBILITY OF THE BUILDER.

THE SEAMER PLATFORM MUST BE MAINTAINED IN GOOD WORKING CONDITION IN ORDER TO FUNCTION PROPERLY AND SAFELY.

DO NOT ALLOW THE SEAMER PLATFORM TO BE DROPPED. BENT. OR IN ANY WAY BE DAMAGED.

REGULAR INSPECTION OF THE SEAMER PLATFORM IS ADVISABLE IN ORDER TO DISCOVER HIDDEN DAMAGE AND TO INSURE IT IS IN GOOD WORKING ORDER.

IF ANY DAMAGE TO THE SEAMER PLATFORM AFFECTS ITS SAFE USAGE, DO NOT CONTINUE TO USE IT.

TO PURCHASE A REPLACEMENT, CALL THE ROOF RUNNER OPERATIONS DEPARTMENT.

THE WARNING DECAL ON THE SEAMER PLATFORM MUST ALSO BE KEPT IN GOOD CONDITION. REPLACEMENTS MAY BE ORDERED, FREE OF CHARGE, FROM THE ROOF RUNNER OPERATIONS DEPARTMENT (816-763-0815).

MAINTENANCE FOR THE ROOF RUNNER

ALL MAJOR MAINTENANCE AND REPAIRS WILL BE DONE BY BUTLER MANUFACTURING COMPANY — ROOF RUNNER OPERATIONS. EACH MACHINE WILL BE CLEANED, WORN PARTS REPLACED, LUBRICATED, PAINTED, AND TESTED BEFORE BEING SHIPPED TO INSURE RELIABLE PERFORMANCE ON THE JOB SITE.

MINOR MAINTENANCE SUCH AS MASTIC REMOVAL, PROTECTION FROM MOISTURE, DAMAGE, SHIPPING BOX CARE, ETC., ARE SOLELY THE RESPONSIBILITY OF THE LESSEE.

ALL QUESTIONS PERTAINING TO THE ROOF RUNNER SHOULD BE DIRECTED TO: (PLEASE REFER TO SPECIFIC ROOF RUNNERS BY SERIAL NUMBER ON ALL CORRESPONDENCE)

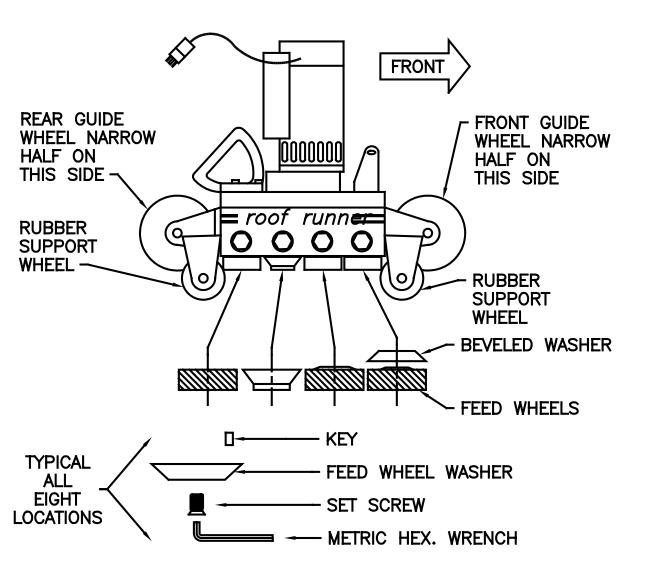
BUTLER MANUFACTURING COMPANY 13500 BOTTS ROAD GRANDVIEW, MISSOURI 64030

TEL: 816-763-0815 FAX: 816-763-1717 ATTN: ROOF RUNNER OPS.

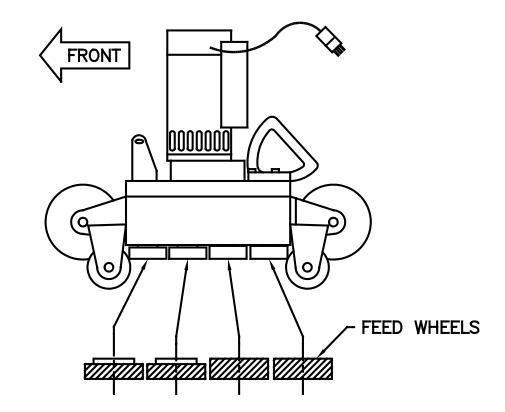
MASTIC REMOVAL — THE EIGHT FORMING WHEELS ON THE UNDERSIDE OF THE ROOF RUNNER MAY BE REMOVED FOR CLEANING (AN "L" SHAPED METRIC HEX WRENCH IS FURNISHED WITH THE ROOF RUNNER TO REMOVE THE FEED WHEEL SET SCREWS). THE FEED WHEELS, WASHERS, AND SET SCREWS CAN BE SOAKED IN A SOLVENT BATH TO REMOVE MASTICS. NAPTHA OR MINERAL SPIRITS WILL EFFECTIVELY CUT BUTLER MASTICS. CAUTION — READ SOLVENT LABELS THOROUGHLY BEFORE USING. DO NOT SOAK ANY OTHER PART OF THE ROOF RUNNER — SOLVENTS WILL ATTACK THE RUBBER SUPPORT WHEELS AND REMOVE THE LUBRICATING ABILITY OF THE BRONZE BEARINGS IF SOAKED. THESE PARTS MAY BE CLEANED BY BRUSHING OR WIPING WITH SOLVENTS AND SHOULD BE DRIED IMMEDIATELY. THE FOLLOWING SKETCHES SHOW THE PROPER ORIENTATION OF THE FEED WHEELS, KNURLING DIRECTION, AND OTHER PARTS THAT CAN BE REMOVED FOR CLEANING. FEED WHEELS MUST BE RE—INSTALLED EXACTLY AS SHOWN BEFORE THE MACHINE CAN FUNCTION PROPERLY.

PAINTED PANELS — FEED WHEELS MUST PENETRATE THE PAINTED SURFACE IN ORDER TO GRIP THE PANEL AND MAKE THE SEAM. THIS WILL LEAVE NON—OBJECTIONABLE TRACKS ON THE SEAM, A BUILD—UP OF PAINT CHIPS IN THE GROOVES OF THE FEED WHEELS WILL OCCUR REQUIRING CONTINUOUS WIRE BRUSHING TO INSURE AN ADEQUATE GRIP DURING THE SEAMING PROCESS.

THE FREQUENCY OF CLEANING SHOULD BE DETERMINED BY THE MACHINE OPERATOR. MASTIC MUST NOT BE ALLOWED TO ACCUMULATE ON THE FEED WHEELS EVEN THOUGH THE MACHINE IS FUNCTIONING PROPERLY. AS MASTICS BUILD UP, A CERTAIN AMOUNT WILL MIGRATE TO THE INTERNAL PARTS CAUSING BINDING OF PARTS AND RESULTING IN IMPROPER FUNCTIONING. INTERNAL CLEANING IS CONSIDERED MAJOR MAINTENANCE AND MUST BE DONE BY ROOF RUNNER OPERATIONS.



NOTICE THE ANGLED GROOVES IN THE FEED WHEELS, THEY MUST BE RE-INSTALLED EXACTLY AS SHOWN!



GUIDE WHEELS AND RUBBER SUPPORT WHEELS
MAY ALSO BE REMOVED FOR CLEANING BY REMOVING
SNAP RINGS AND WITHDRAWING THE AXLES

MR-24 ROOF RUNNER OPERATIONS					
TIPS FOR TROUBLE FREE OPERATION-MAINT.					
DRAWN BY CHECKED BY		GROUP NUMBER: 02-064-01			
RHE	RMC			- 1	
FIRST RELEASE DATE	REVISION DATE	I R I	P-081674	$1 \cap 1$	
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		SCRUBOLTS
PART MARK	COLOR	DESCRIPTION
095984		11/32 X 7/8", HEX HD, SS W/WASHER
096932		3/8 X 1 1/4", HEX HD W/WASHER
097104		11/32 X 1 1/4", HEX HD, SS W/WASHER
097196		3/8 X 1", HEX HD W/WASHER
097222		3/8 X 2", HEX HD W/WASHER
097264		3/8 X 2 3/4", HEX HD W/WASHER
097270		3/8 X 2 1/4", HEX HD W/WASHER
097271		3/8 X 3 1/2", HEX HD W/WASHER
097292		3/8 X 5", HEX HD W/WASHER
097298		3/8 X 6", HEX HD W/WASHER
097351		11/32 X 7/8", T-45 TORX HD W/O WASHER (GRAY)
097352		11/32 X 1 1/4", T-45 TORX HD W/O WASHER (GRAY)
097361—		11/32 X 7/8", T-45 TORX HD W/WASHER
097362-		11/32 X 1 1/2", T-45 TORX HD W/WASHER
097363-		11/32 X 2", T-45 TORX HD W/WASHER
097604-		11/32 X 3 1/2", T-45 TORX HD W/WASHER
097267		SCRUBOLT NUT, 11/32", 1/2" HEX
097466		SCRUBOLT NUT, 23/64", 1/2" HEX

		SELF-DRILLING SCREWS
PART MARK	COLOR	DESCRIPTION
097216		(T-3) #10-16 X 3/4", 5/16" HEX HD
097295		(T-3) #12-14 X 3/4", 5/16" HEX HD W/WASHER
097296		(T-3) #12-14 X 1 1/4", 5/16" HEX HD W/WASHER
097354		(T-4) 1/4-14 X 1 1/2", 3/8" HEX HD W/WASHER
097356		(T-3) 1/4-14 X 1" PHILLIPS WAFER HD
097373		(T-3) #12-14 X 1 1/4", 3/8" HEX HD, SS W/WASHER
097374		(T-3) #12-14 X 1 1/4", 3/8" HEX HD, SS W/WASHER
097405		(T-3) 5/16-12 X 1", 3/8" HEX HD W/WASHER
097406		(T-3) 5/16-12 X 1 1/2", 3/8" HEX HD W/WASHER
097409		(T-3) 1/4-14 X 7/8", 3/8" HEX HD, SS W/WASHER
097460		(T-3) 5/16-18 X 1 1/4", 3/8" HEX HD W/WASHER
097554		(T-5) #12-24 X 1 1/4", 5/16" HEX HD W/O WASHER
097555		(T-3) 1/4-14 X 1 1/4", 3/8" HEX HD W/O WASHER
097230-		(T-3) 1/4-14 X 1 1/4", 3/8" HEX HD W/WASHER
097357-		(T-1) 1/4-14 X 7/8", 3/8" HEX HD W/WASHER
097364-		(T-1) 1/4-14 X 3/4", T-30 TORX HD W/WASHER
097365-		(T-3) #12-14 X 1 1/4", T-30 TORX HD W/WASHER
097529-		(T-5) #12-24 X 1 1/2", T-30 TORX HD W/WASHER
097584-		(T-2) #12-14 X 1 1/4", 5/16" HEX HD, SS CAP W/WASHER
097605-		(T-3) $1/4-14$ X 3 $1/8$ ", $T-30$ TORX HD STANDOFF SDS W/WASHER
55307		(T-3) 1/4-14 X 1 1/4", 5/16" HEX HD
55310		(T-3) 1/4-14 X 3", 5/16" HEX HD
55312		(T-3) #12-14 X 1" PANCAKE PHILLIPS SQUARE DRIVE
55320		(T-3) 1/4-14 X 1 1/2", 5/16" HEX HD
56104		(T-5) #12-24 X 1 1/2", 5/16" HEX HD
56450		(T-2) #12-14 X 1 1/4", 5/16" HEX HD W/O WASHER
097581-		(T-1) 1/4-14 X 7/8", 5/16" HEX HD, SS CAP W/WASHER

		MISCELLANEOUS FASTENERS
PART MARK	COLOR	DESCRIPTION
095051		MACHINE SCREW 1/4 X 1", HEX HD
095056		MACHINE SCREW 1/4 X 3", HEX HD
095062		NUT, MACHINE SCREW 1/4", HEX HD
095241		NUT, 1/4" FLAT SPEED NUT
095895		(T-A) #10 X 3/4", PAN HD (SHEET METAL SCREW)
097190-		NUT, 1/4-20 SS FLANGE NUT

		BLIND RIVETS
PART MARK	COLOR	DESCRIPTION
097580-		POP RIVET, 1/8 X 3/8"

FASTENER COLOR SUFFIX CHART

SUFFIX COLOR	SUFFIX COLOR
100 = COOL IGLOO WHITE	112 = COOL SHELL GRAY
101 = COOL IVORY WHITE	113 = COOL DESERT BEIGE
102 = COOL SOLAR WHITE	115 = COOL OCEAN BLUE
103 = COOL BRICK RED	116 = COOL GRAY STONE
104 = COOL COUNTRY WHEAT	117 = COOL COPPER PENNY
105 = COOL HARVEST	118 = COOL METALLIC SILVER
106 = COOL SAFARI BROWN	119 = COOL JADE GREEN
107 = COOL PALM GREEN	120 = COOL BRIGHT RED
108 = COOL MARSH GREEN	121 = COOL PARCHMENT
109 = COOL EMERALD GREEN	122 = COOL OLD TOWN GRAY
110 = COOL ONYX BLACK	141 = COOL BIRCH WHITE
111 = COOL MAJESTIC BLUE	UNPNTD = UNPAINTED

	LOCK-RIVETS
PART MARK	DESCRIPTION
096295	9/32" X 1 3/32", "A" HD W/BLACK WASHER
096306	9/32" X 1 3/32", "B" HD W/GREEN WASHER
096582	9/32" X 1 11/32", "A" HD W/BLUE WASHER
096583	9/32" X 1 11/32", "B" HD W/GOLD WASHER

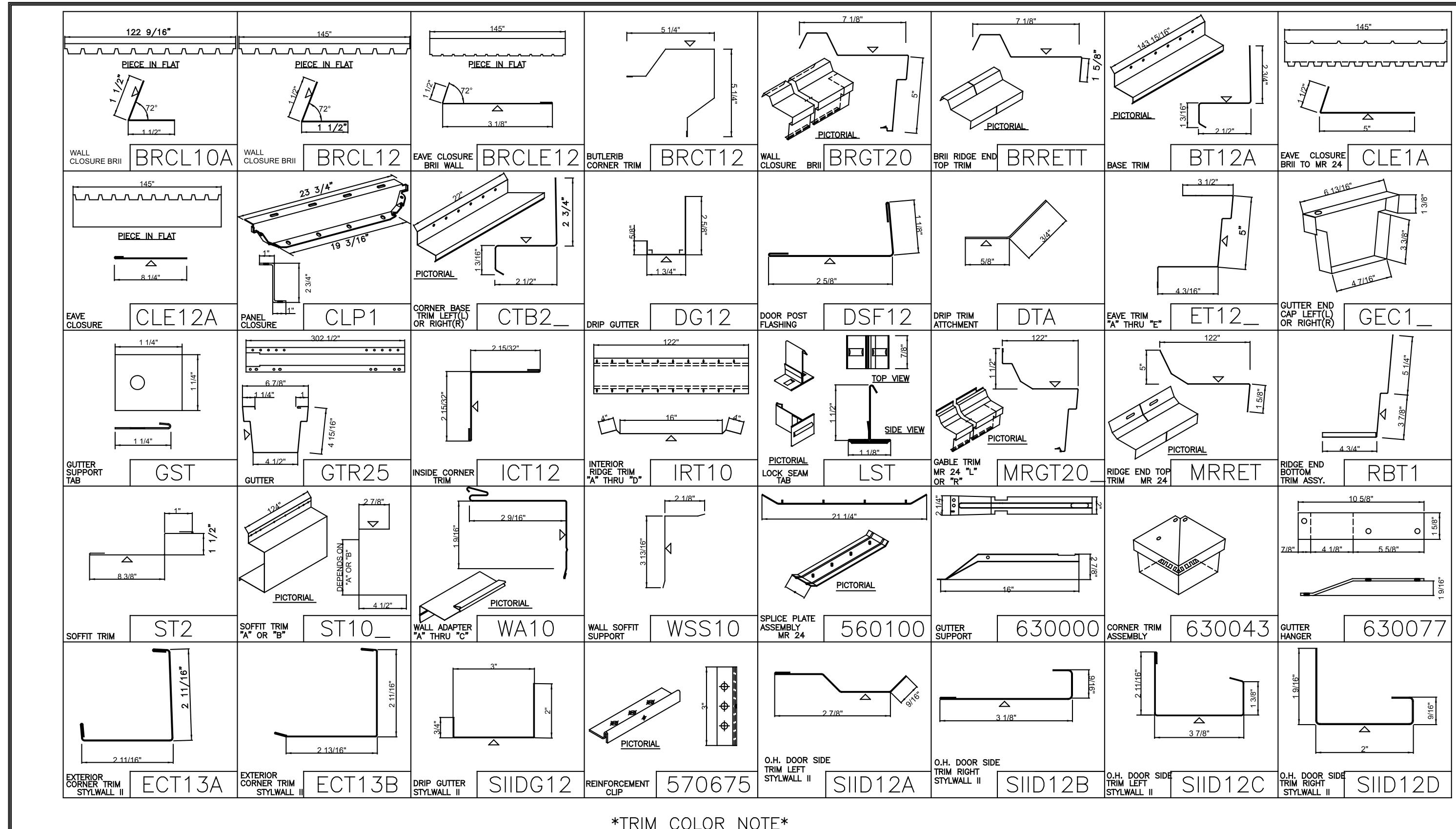
FOAM TYPE SEALANT			
PART MARK	DESCRIPTION		
560185	3/16" X 3/4" X 50' ROLL		
560201	3" X 3" X 1'-10" STRIP		

	SEALANT				
PART MARK	DESCRIPTION				
016688	GRAY SKINNING SEALANT				
025392	WHITE NON-SKINNING PANLASTIC SEALANT				
80531	IMMERBOND FLEXIBLE SEAL ADHESIVE				
560460	FLEXIBLE FLASHING ADHESIVE				

	TAPE MASTIC
PART MARK	DESCRIPTION
025390	3/16" X 1/4" X 40' ROLL (10 ROLLS PER BOX)
027893	1/8" X 1" X 25' (5 ROLLS PER BOX)
042715	1/8" X 1 1/2" X 40' ROLL
042717	1/8" X 1" X 2'-0 1/4" STRIP (64 STRIPS PER BOX)
541063	1/8" X 3 7/8" X 10" ROLL FOIL STRIP (5 ROLLS PER CARTON)
560562	1/16" X 1" X 40' ROLL (5 ROLLS PER BOX)
560564	3/16" DIA. X 40' ROLL (10 ROLLS PER BOX)

	PANEL CLOSURES
PART MARK	DESCRIPTION
026648	OPT. BUTLERIB RUBBER BASE CLOSURE 3'
026649	OPT. BUTLERIB FOAM BASE CLOSURE 3'
026654	BUTLERIB RUBBER ROOF CLOSURE 10 23/32"
560000	MR-24 RUBBER CORRUGATION CLOSURE
560158	MR-24 LOCK SEAM PLUG
560348	MR-24 PLASTIC CORRUGATION CLOSURE
570452	OPT. STYLWALL FLUTED FOAM WALL CLOSURE 2'-8"
570555	BUTLERIB OUTSIDE FOAM WALL CLOSURE 3'
570597	STYLWALL FLAT FOAM BASE CLOSURE 1'-4"
570674	STYLWALL FLUTED FOAM BASE CLOSURE 1'-4"
570730	OPT. SHADOWALL RUBBER BASE CLOSURE 10 11/16"
570731	OPT. SHADOWALL FOAM BASE CLOSURE 3'
570776	SHADOWALL OUTSIDE FOAM WALL CLOSURE 3'
ARPCPG	VSR II CORRUGATION CLOSURE
ARPHCP	VSR II HIP CORRUGATION PLUG 3'
BRCCL12	BUTLERIB CANOPY CLOSURE 12'
BRCL10A	OPT. BUTLERIB WALL CLOSURE 10' .75:12-3:12
BRCL10B	OPT. BUTLERIB WALL CLOSURE 10' 3.1:12-4:12
BRCL12	OPT. BUTLERIB WALL CLOSURE 12' .25:12-1:12
BRCLE12	VSR II EAVE CLOSURE 12' W/BUTLERIB WALL
CLE12A	BUTLERIB EAVE CLOSURE 12', 6 3/4"
CLE12B	BUTLERIB EAVE CLOSURE 12" W/BUTLERIB OVER 4:12, SHADOWALL OVER 1/2:12
CLE12C	MR-24 EAVE CLOSURE 12' W/STYLWALL OR SHADOWALL
CLE12D	MR-24 EAVE CLOSURE 12'-0" WITH INSULATED WALL PANEL
CLE1A	MR-24 EAVE CLOSURE 12' W/BUTLERIB
CLP2	MR-24 PANEL CLOSURE 2'-1 1/2"
MRCLE12A	CMR-24 EAVE CLOSURE 12'-0" WITH INSULATED WALL PANEL 10 3/4"
MRCLE12B	CMR-24 EAVE CLOSURE 12'-0" WITH INSULATED WALL PANEL 1'-1 3/4"
SHCL12	OPT. SHADOWALL WALL CLOSURE 12' .25:12-4:12
SHCLE11A	VSR II EAVE CLOSURE 11' W/SHADOWALL
SIIC12A	VSR II EAVE CLOSURE 12'-0" WITH INSULATED WALL PANEL OR FLAT STYLWALL
SIIC12B	VSR II EAVE CLOSURE 12' W/FLUTED STYLWALL
SIICLB1A	STYLWALL FLUTED METAL TRANSITION BASE CLOSURE 1'-4"
SIICLB1B	STYLWALL FLAT METAL TRANSITION BASE CLOSURE 1'-4"
TLCLB	BUTLERIB WITH TLS PARTIAL WALL HEIGHT EAVE CLOSURE
TLCLM	MR-24 WITH TLS PARTIAL WALL HEIGHT EAVE CLOSURE
TLCLV	VSR II WITH TLS PARTIAL WALL HEIGHT EAVE CLOSURE

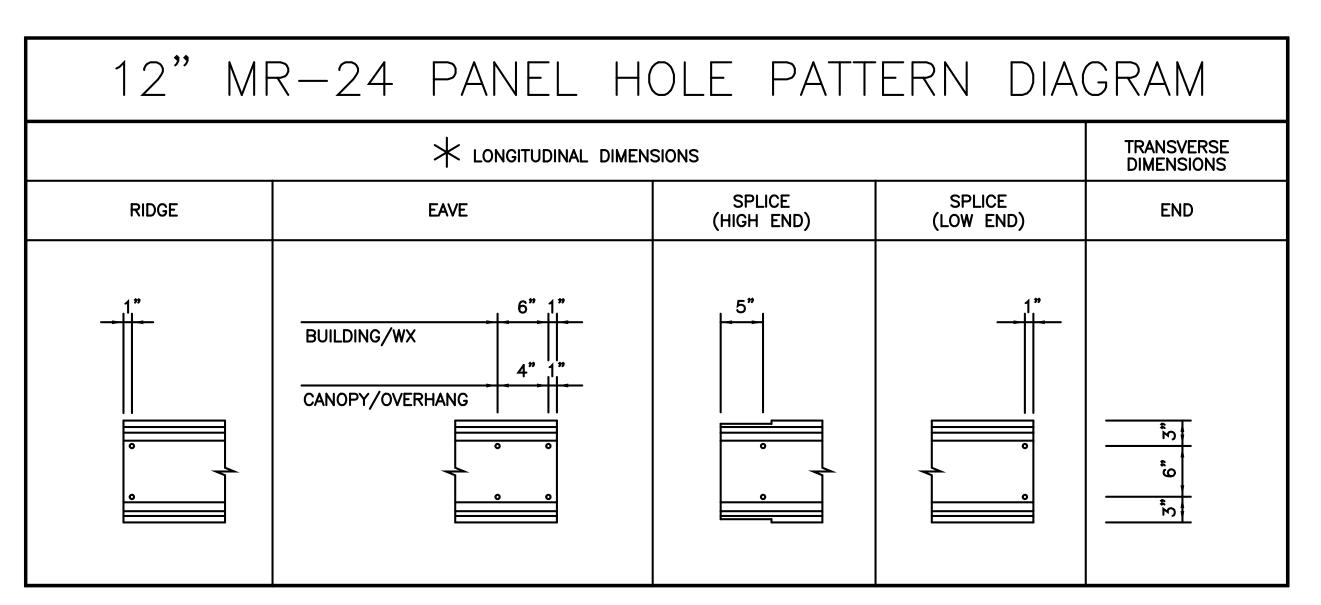
BMC	COMMON	WA	AREHOUSE	PARTS	·)
DRAWN BY	CHECKED BY		GROUP NUMBER:		
BJF					
FIRST RELEASE DATE	REVISION DATE		L P	764	115
01/10/13	06/05/23			/ 0	



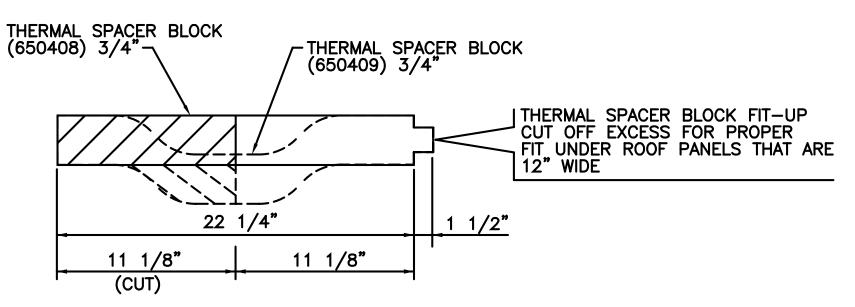
TRIM COLOR NOTE

△ DESIGNATES COLOR SIDE

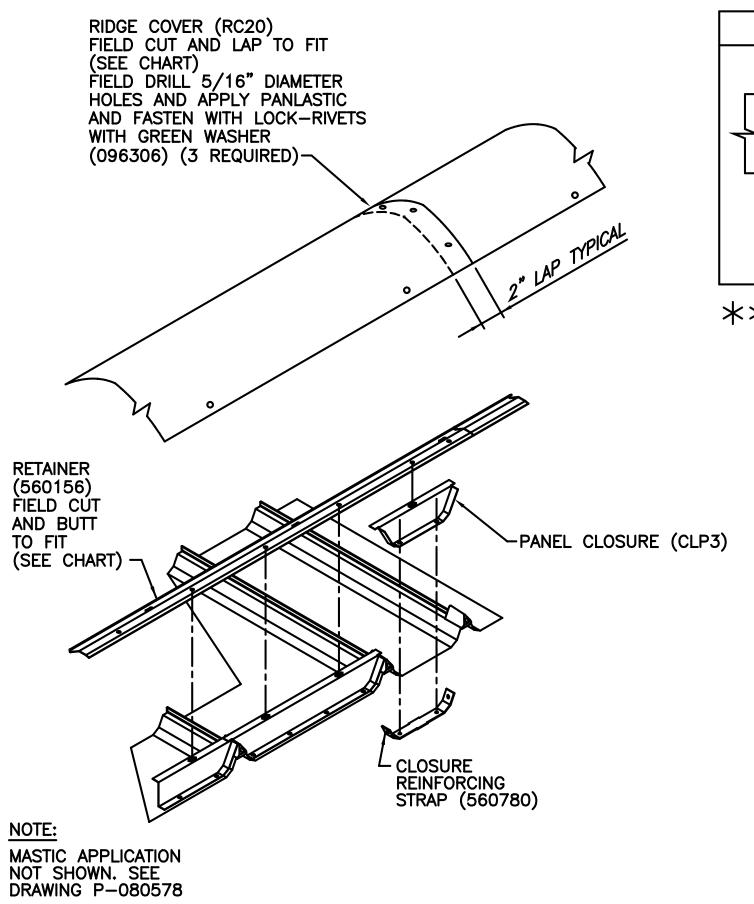
STANDARD TRIMS							
DRAWN BY	CHECKED BY	GROUP NUMBER:					
CSF FIRST RELEASE DATE	RJR REVISION DATE	B P-081768 02		02			
02/28/13	12/04/18	ם	F -001700	UZ			



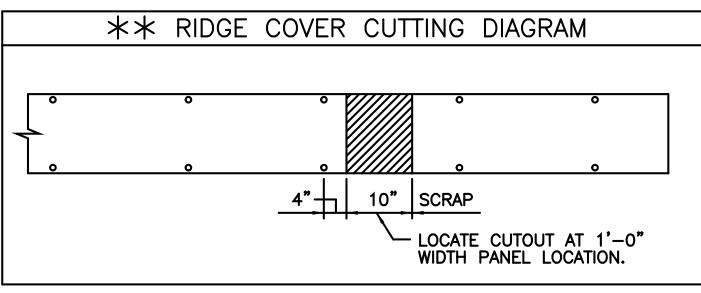
* ALL FIELD DRILLED HOLES 5/16" DIAMETER LONGITUDINAL HOLE LOCATION DIMENSIONS ARE CRITICAL. ERRORS IN FIELD DRILLING LOCATION WILL ACCUMULATE AND CAUSE RIDGE FIT-UP DIFFICULTY. RIGHT HAND PANELS WILL BE FACTORY PUNCHED. ONLY LEFT HANDED PANELS REQUIRE FIELD DRILLING FOR HOLES.



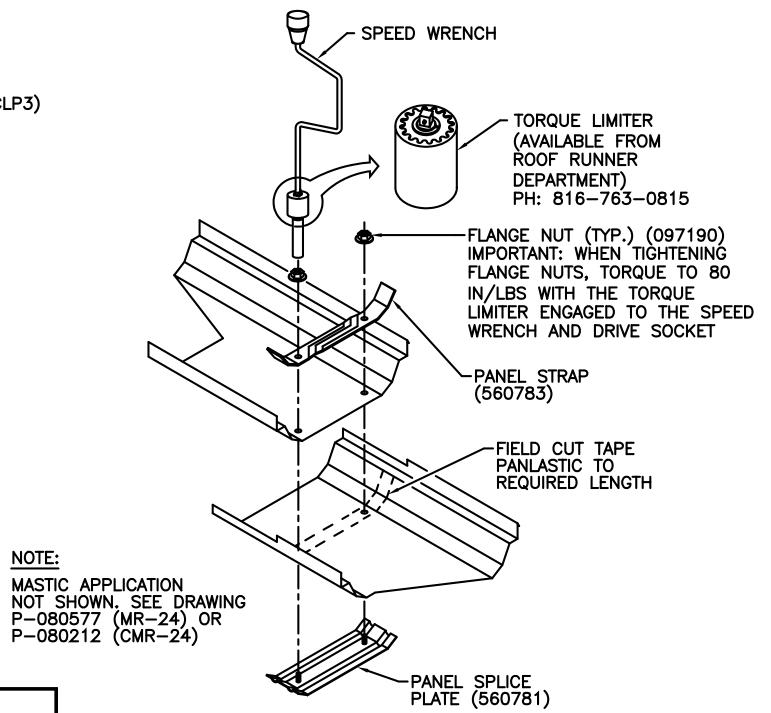
** FIELD CUT BLOCK AS SHOWN AND KEEP CUT PART FOR REMAINING 12" PANELS. (1) 24" BLOCK IS PROVIDED FOR (2) 12" PANELS.

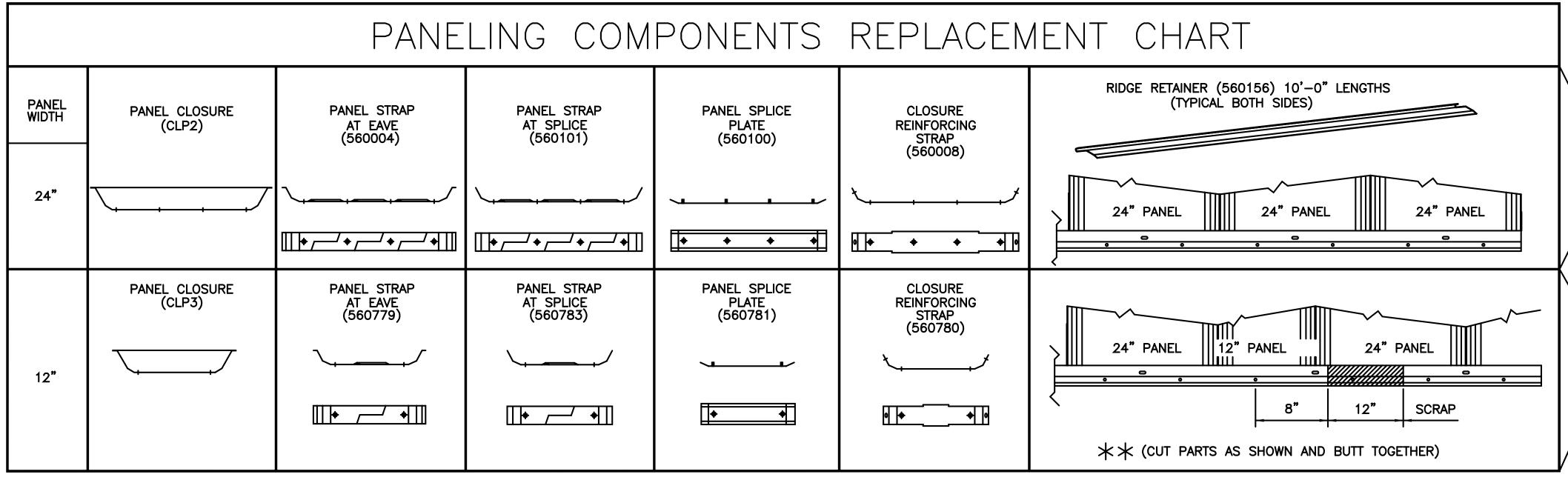


RIDGE COVER RETAINER MODIFICATION



** THE RIDGE COVER/RETAINER CUTTING DIAGRAM IS ONLY APPLICABLE TO A SINGLE RUN OF THE 12" VARIABLE WIDTH PANEL LOCATED WITH IN THE INTERIOR OF THE BUILDING. CUTTING DETAIL IS NOT APPLICABLE TO MULTIPLE ADJACENT RUNS OR TO A SINGLE RUN OF 12" PANELS LOCATED AT THE ENDWALLS OF THE ROOF.



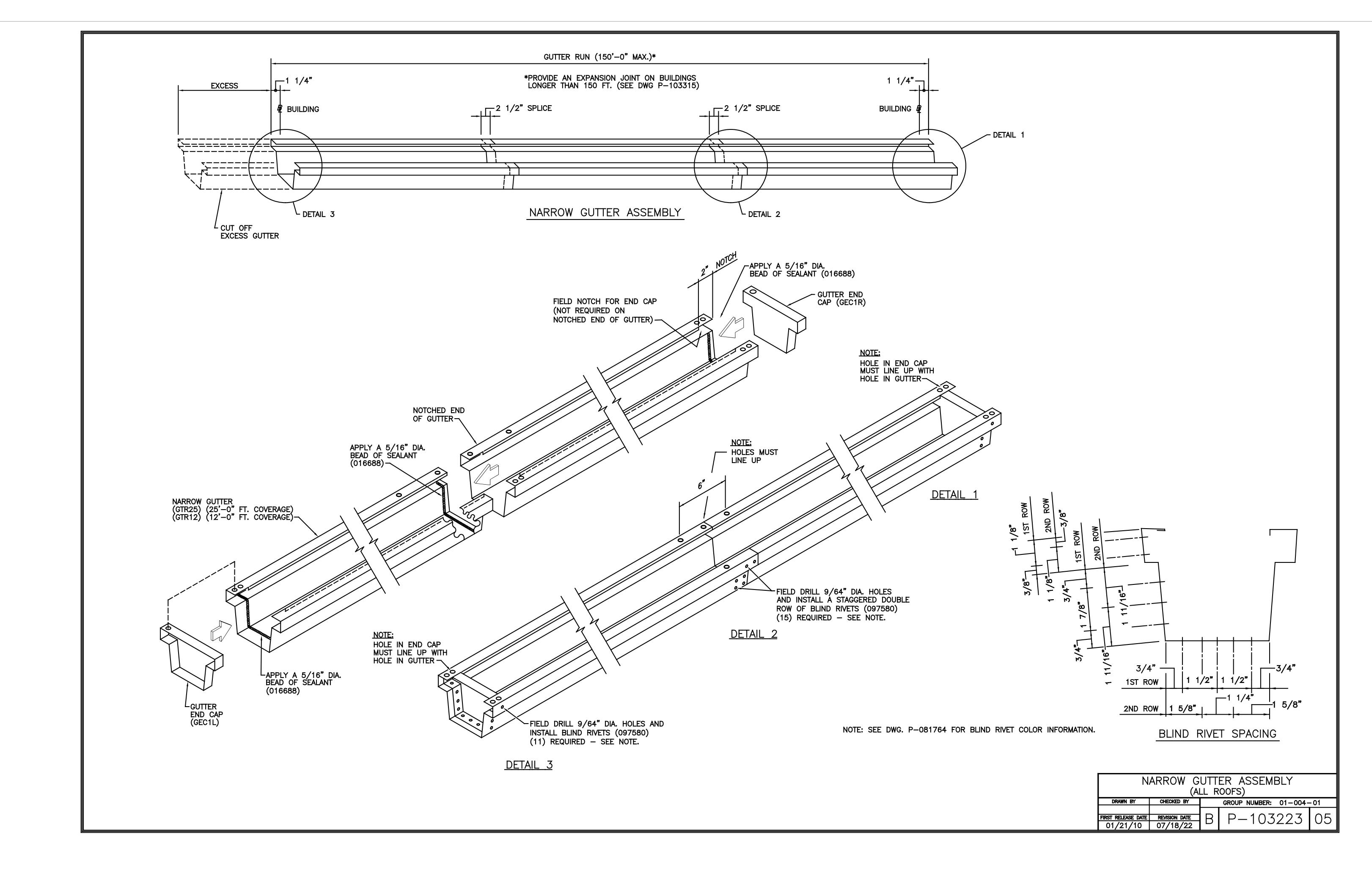


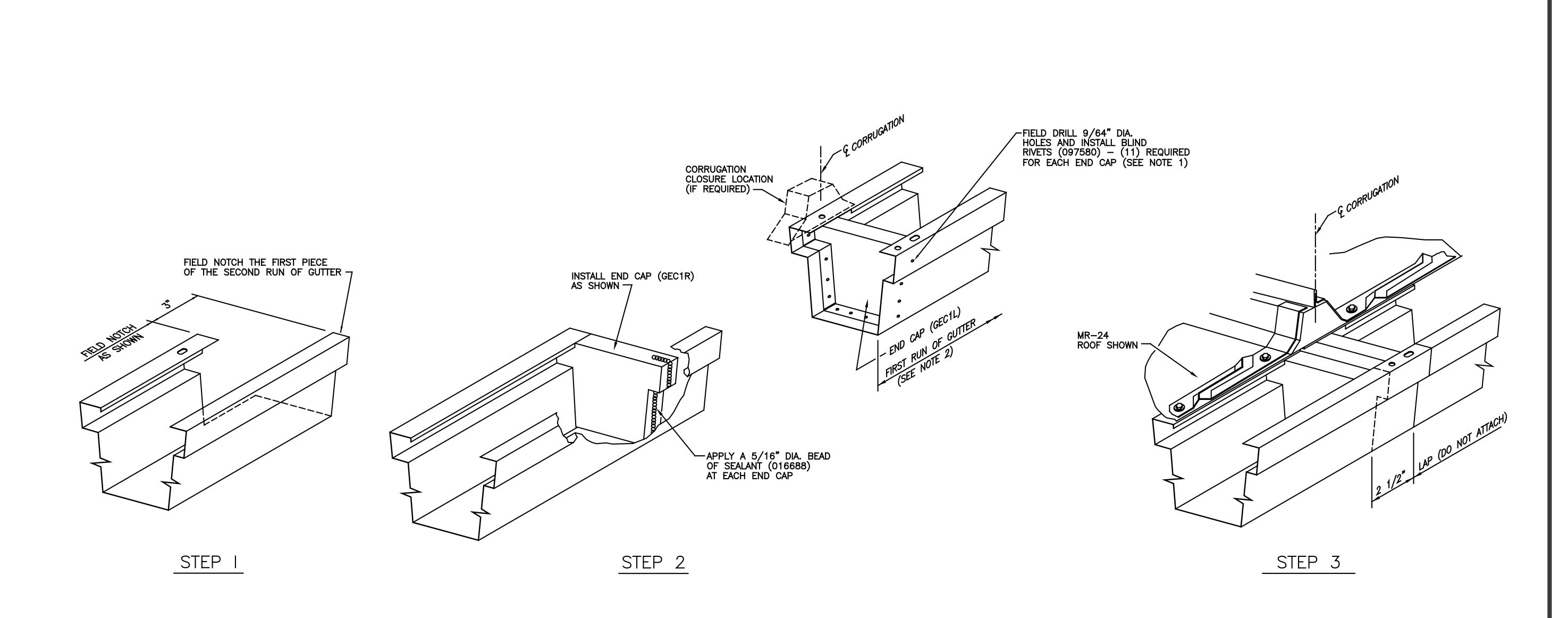
PANEL STRAP AND PANEL SPLICE PLATE

WHEN SPECIFIC DETAIL ON ERECTION DRAWINGS
IS INDICATING THE USE OF A 2'-0" WIDE MR-24
PANEL THE PARTS SHOWN IN THE 24" PANEL
WIDTH ROW SHOULD BE USED AS SHOWN
WITHIN THE DETAIL

WHEN A 1'-0" WIDE PANEL IS BEING USED IN LIEU OF THE 2'-0" WIDE PANEL THE PARTS SHOWN IN THE 12" PANEL WIDTH ROW SHOULD REPLACE THE PARTS SHOWN IN THE SPECIFIC DETAIL ON THE ERECTION DRAWINGS

1'-0" MR-24 PANEL INSTALLATION REPLACEMENT PART INFORMATION							
DRAWN BY	CHECKED BY GROUP NUMBER: 00-000-00						
BSN	RLB						
FIRST RELEASE DATE		I R I	P-090005	N2			
06/04/15	08/06/18	ן ט ן		$ \cup Z $			

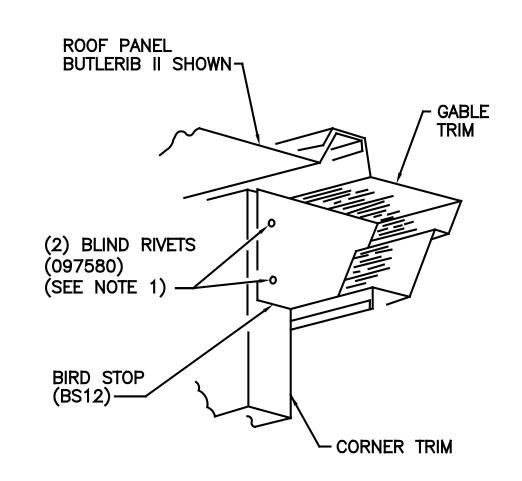




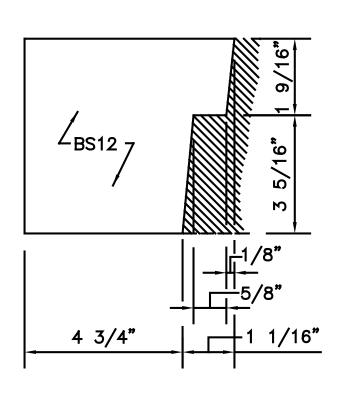
NOTES:

- 1. SEE DRAWING P-081764 FOR BLIND RIVET COLOR INFORMATION.
- 2. REFER TO DWG. P-103223 FOR "GUTTER ASSEMBLY"

NARROW GUTTER EXPANSION JOINT GUTTER – ALL ROOFS						
	DRAWN BY CHECKED BY			GROUP NUMBER: 01-004-	- 01	
	M.B. FIRST RELEASE DATE 01/21/10	J.S. REVISION DATE 12/04/18	В	P-103315	04	





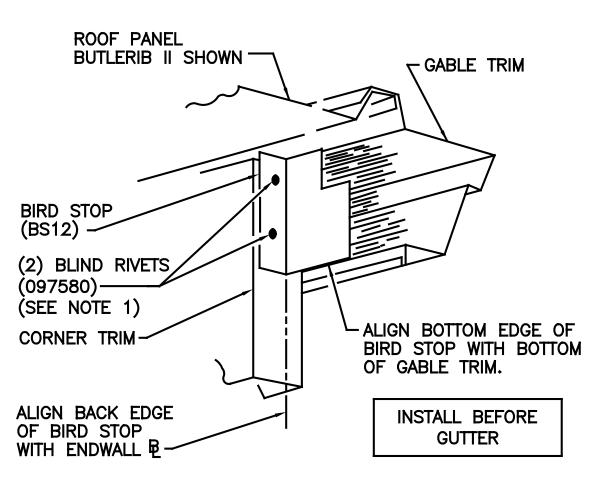


UNTRIMMED EAVE

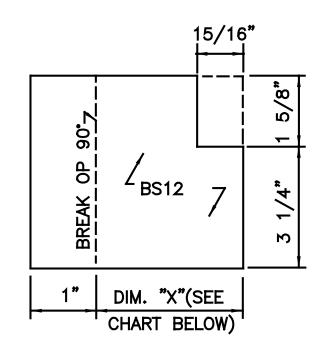
BIRD STOP CUTTING DIAGRAM

FOR INSTALLATION SHOWN,

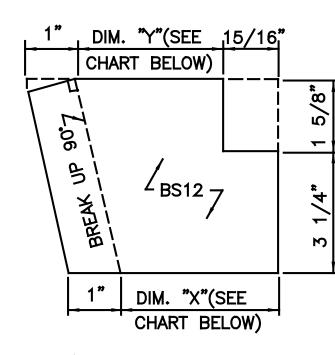
(REVERSE FOR OPPOSITE CORNER)



EAVE WITH GUTTER



1/4:12, 1/2:12, AND 1:12 ROOF SLOPES (SEE NOTE 2)



4:12 ROOF SLOPE (SEE NOTE 2)

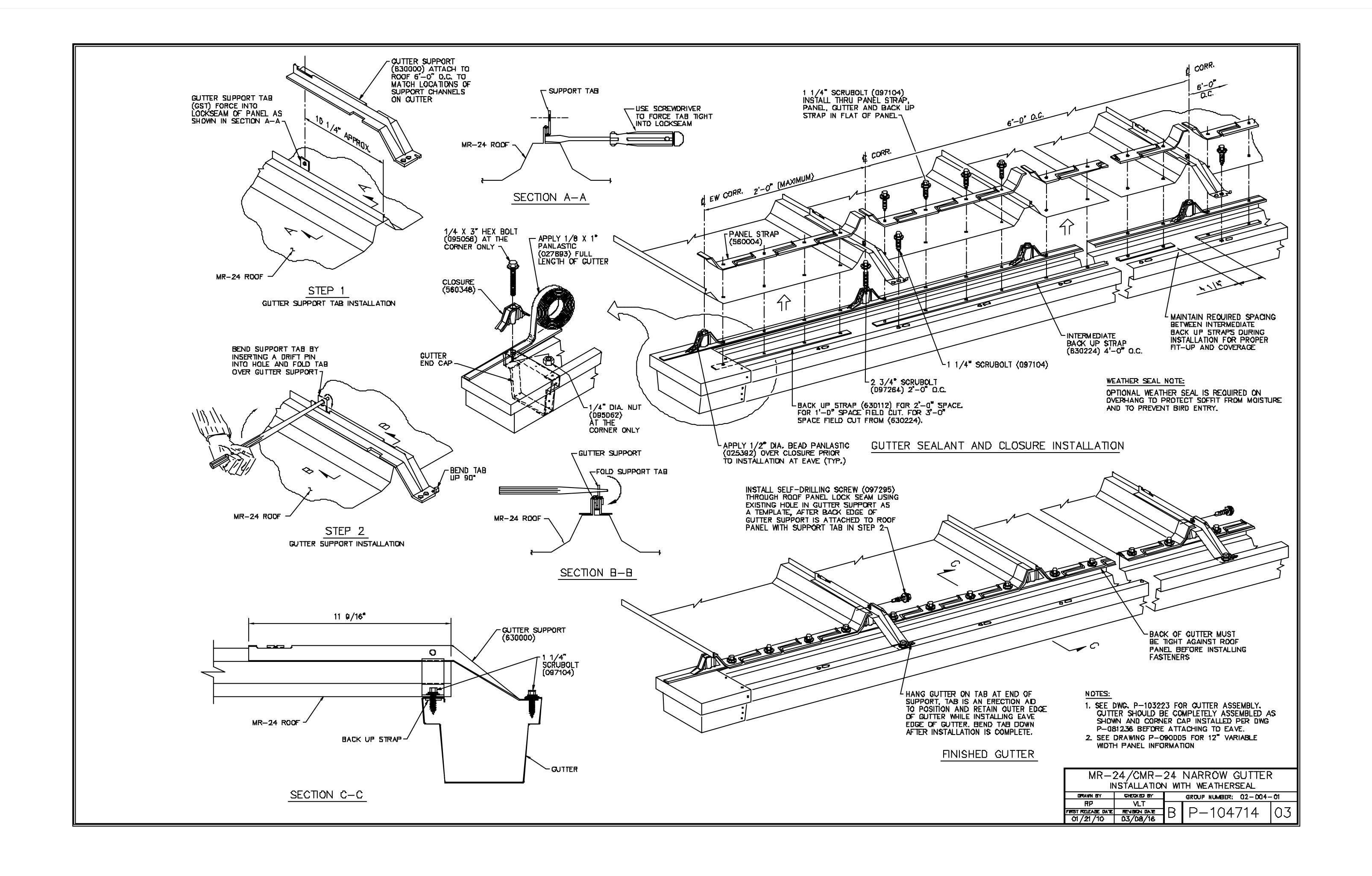
EAVE WITH GUTTER

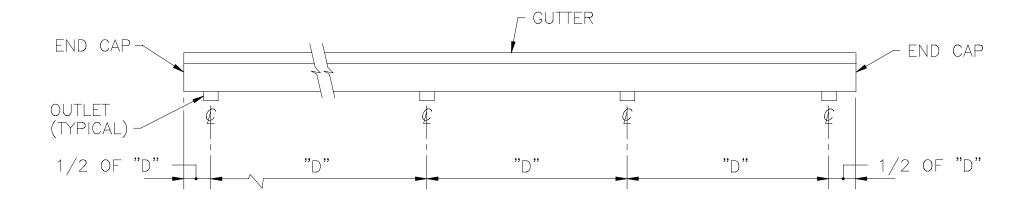
BIRD STOP CUTTING DIAGRAM
FOR INSTALLATION SHOWN,
(REVERSE FOR OPPOSITE CORNER)

CUTTING DIMENSIONS							
WALI	-	1/4, 1/2, AND 1:12 ROOF SLOPES	4:12 RO	OF SLOPE			
		DIM. "X"	DIM. "X"	DIM. "Y"			
BUTLERIB II OR	SHADOWALL	3 1/8"	1 3/4"	2 3/8"			
SHADOWALL		3 1/8"	1 3/4"	2 3/8"			
INSULATED	2"	2 5/8"	1 1/4"	1 7/8"			
	2 1/2"	2 1/8"	NOT AV	AILABLE			
WALL PANEL	3"	1 5/8"	1 1/4"	1 7/8"			
	4"	5/8"	NOT AVAILABLE				
	2"	2 1/8"	1/4"	7/8"			
TEXTURED	2 1/2"	1 5/8"	NOT A	/AILABLE			
INSULATED WALL PANEL	3"	5/8"	NOT AVAILABLE				
	4"	NOT AVAILABLE					
CTVI WALL II	HIGH CORR.	2 5/8"	NOT A	/AILABLE			
STYLWALL II	LOW CORR.	3 1/8"	NOT AVAILABLE				

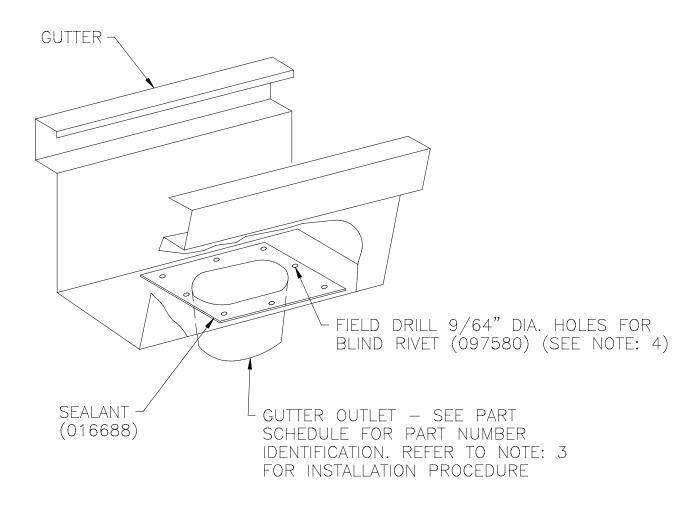
NOTE:

- 1. SEE DRAWING P-081764 FOR BLIND RIVET COLOR INFORMATION.
- 2. FIELD CUT BIRD STOP AS SHOWN IN CUTTING DIAGRAM FOR STANDARD SLOPES, FOR NON—STANDARD SLOPES, USE NEAREST STD. SLOPE INFO. AND ADJUST AS REQUIRED.





NOTE: MAXIMUM CONDUCTOR SPACING "D" MUST BE DETERMINED BASED ON RAINFALL INTENSITY.



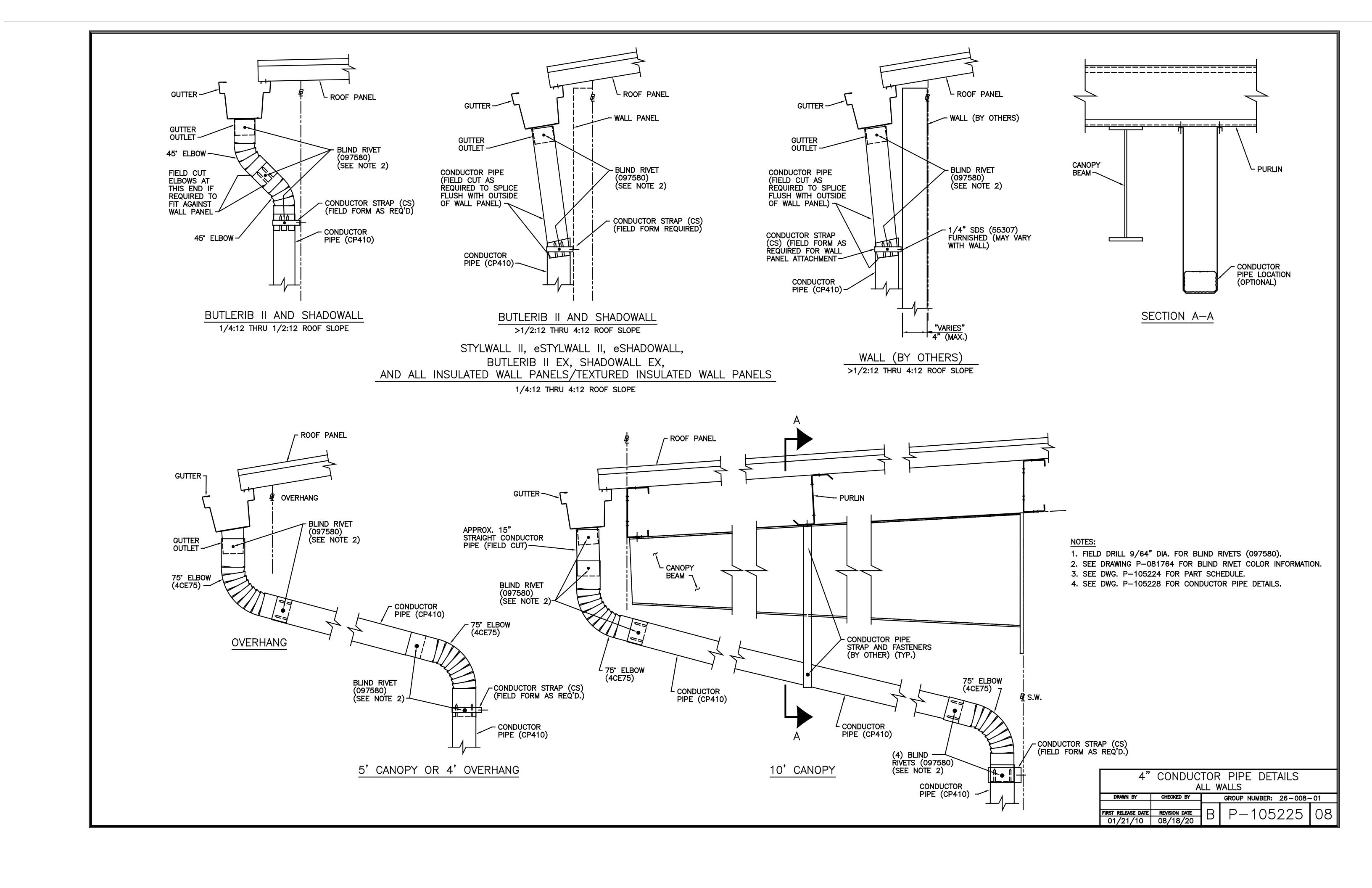
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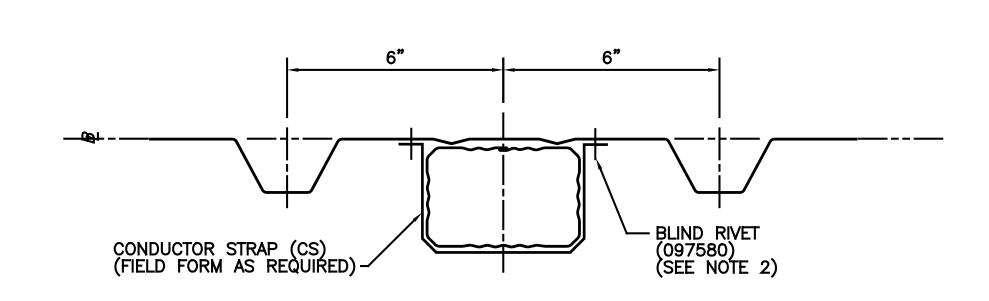
10'-0" CONDUCTOR PIPE AND STRAPS								
EAVE HEIGHT	BUTLER SHADO' SHADO' eSHA[STYLWALL STYLWALL eSTYLWALI INSULATE	ERIB II RIB II EX POWALL WALL EX DOWALL L II FLAT L II FLUTED LL II FLAT L II FLUTED D WALL 2" JLATED WALL 2"	ALL WALLS 4'-0" OVERHANG			5'-0" OR 10'-0" CANOPY		
	AT WALL 1/4:12 THRU 1/2:12 ROOF SLOPE		AT WALL >1/2:12 THRU 4:12 ROOF SLOPE					
			Q	uantity f	PER OUTL	_ET		
HEIGHT	PIPE	STRAPS	PIPE	STRAPS	PIPE	STRAPS	PIPE	STRAPS
10'	1	2	1	2	1 1/2	2	2 1/2	2
11'	1 1/2	3	1 1/2	3	2	3	3	3
12'	1 1/2	3	1 1/2	3	2	3	3	3
13'	1 1/2	3	1 1/2	3	2	3	3	3
14'	1 1/2	3	1 1/2	3	2	3	3	3
15'	1 1/2	3	1 1/2	3	2	3	3	3
16'	2	3	2	3	2 1/2	3	3 1/2	3
17'	2	3	2	3	2 1/2	3	3 1/2	3
18'	2	3	2	3	2 1/2	3	3 1/2	3
19'	2	3	2	3	2 1/2	3	3 1/2	3
20'	2	3	2	3	2 1/2	3	3 1/2	3
21'	2 1/2	4	2 1/2	4	3	4	4	4
22'	2 1/2	4	2 1/2	4	3	4	4	4
23'	2 1/2	4	2 1/2	4	3	4	4	4
24'	2 1/2	4	2 1/2	4	3 3	4	4	4
25' 26'	2 1/2 3	4	2 1/2	4		4	4 1 / 2	4
27'	3	4	3	4	3 1/2 3 1/2	4	4 1/2	4
28'	3	4	3	4	3 1/2	4	4 1/2	4
29'	3	4	3	4	3 1/2	4	4 1/2	4
30'	3	4	3	4	3 1/2	4	4 1/2	4
31'	3 1/2	5	3 1/2	5	4	5	5	5
32'	3 1/2	5	3 1/2	5	4	5	5	5
33'	3 1/2	5	3 1/2	5	4	5	5	5
34'	3 1/2	5	3 1/2	5	4	5	5	5
35'	3 1/2	5	3 1/2	5	4	5	5	5
36'	4	5	4	5	4 1/2	5	5 1/2	5
37'	4	5	4	5	4 1/2	5	5 1/2	5
38'	4	5	4	5	4 1/2	5	5 1/2	5
39'	4	5	4	5	4 1/2	5	5 1/2	5
40'	4	5	4	5	4 1/2	5	5 1/2	5

PART SCHEDULE					
PART NUMBER	DESCRIPTION				
CP410	CONDUCTOR PIPE				
4CE45	45° ELBOW				
008738	GUTTER OUTLET 1/4:12 THRU 1/2:12				
4CE75	75° ELBOW				
016688	GRAY SEALANT				
CS	CONDUCTOR STRAP (FIELD FORMED)				
640432	GUTTER OUTLET - >3:12 THRU 4:12				
640492	GUTTER OUTLET $- > 1/2:12$ THRU $3:12$				

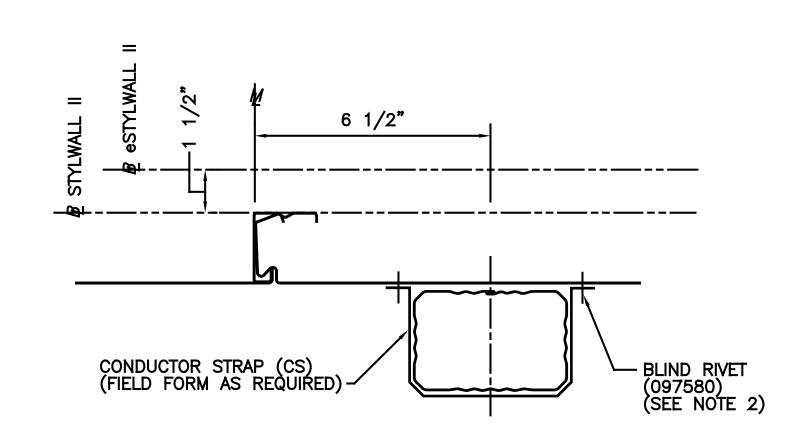
- 1. CONDUCTOR PIPE (CP410) FURNISHED IN 10'-0" LENGTHS ONLY. FIELD CUT TO LENGTHS REQUIRED.
- 2. USE (2) BLIND RIVETS AT EACH PIPE JOINT.
- 3. USING GUTTER OUTLET AS A PATTERN. FIELD CUT
 GUTTER FOR PROPER FIT. APPLY 016688 SEALANT TO
 UNDERSIDE OF OUTLET LIP AND ATTACH WITH (8) BLIND RIVETS. IMPORTANT: BE SURE TO ORIENT GUTTER AND GUTTER OUTLET PROPERLY PRIOR TO ATTACHMENT.
- 4. SEE DRAWING P-081764 FOR BLIND RIVET COLOR INFORMATION.
- 5. FOR CONDUCTOR PIPE DETAILS SEE DRAWINGS P-105225 AND P-105228.

				_
4" 0	ONDUCTO	7 P	IPE INSTALLATION	
	A	LL W	VALLS	
DRAWN BY	CHECKED BY		GROUP NUMBER: 26-008-01	
RHE	BJF			_
FIRST RELEASE DATE	REVISION DATE	\mathbb{R}	P-105224 08	?
01/21/10	05/20/24			١

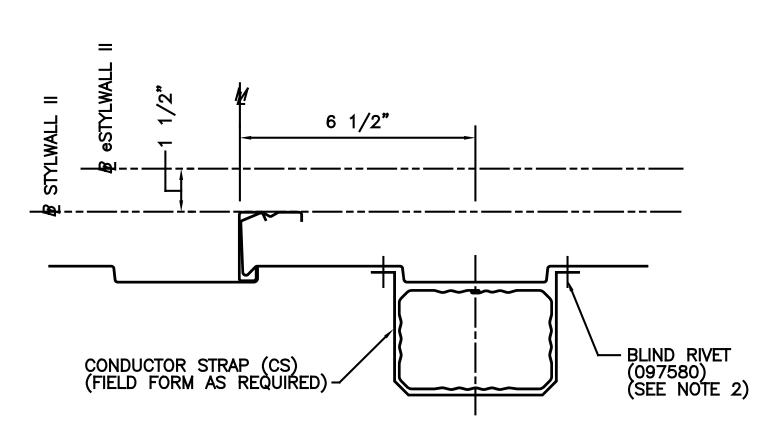




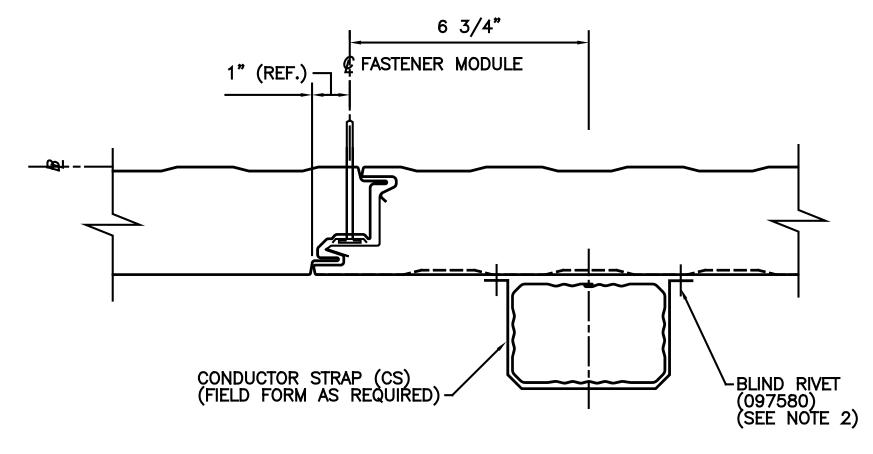
BUTLERIB II AND BUTLERIB EX



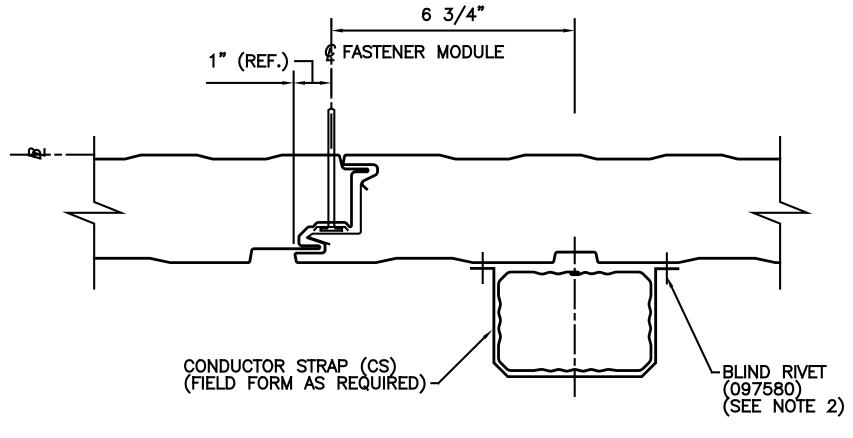
FLAT STYLWALL II AND FLAT eSTYLWALL II



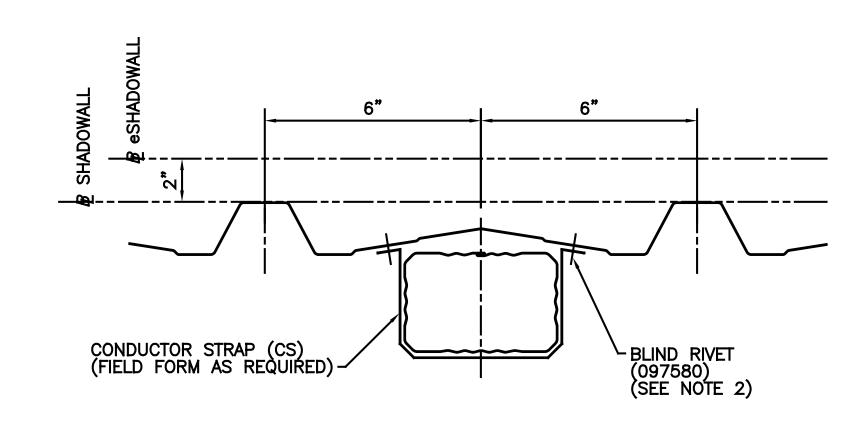
FLUTED STYLWALL II AND FLUTED eSTYLWALL II



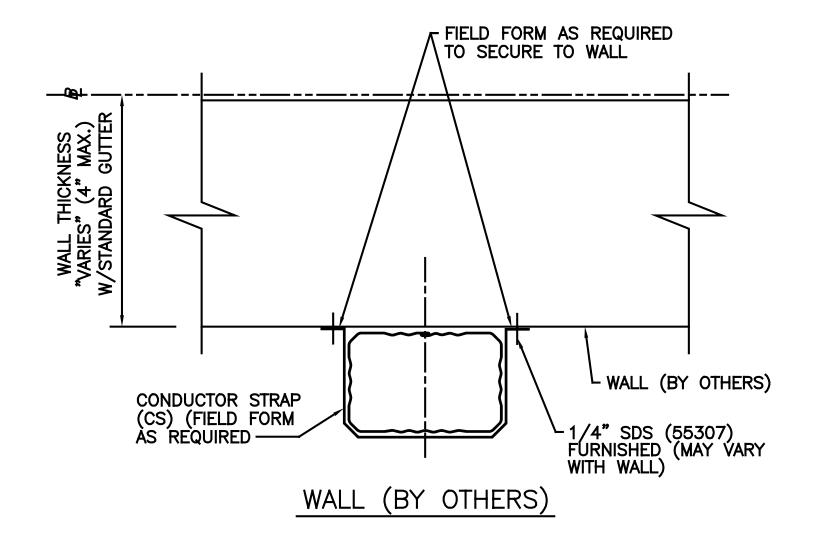
INSULATED WALL PANEL WITHOUT FLUTES
TEXTURED INSULATED WALL PANEL

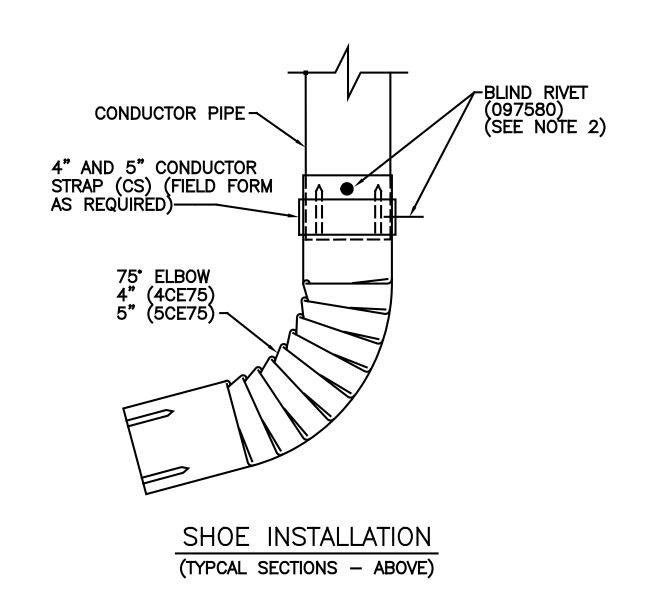


INSULATED WALL PANEL WITH FLUTES



SHADOWALL, SHADOWALL EX AND eSHADOWALL





NOTES:

- 1. LOCATE CONDUCTOR STRAPS AT TOP, BOTTOM AND JOINTS OF VERTICAL 4" CONDUCTOR PIPES. 5" CONDUCTOR PIPES MAX. 6'-0" O.C. SPACING.
- 2. SEE DRAWING P-081764 FOR BLIND RIVET COLOR INFORMATION.
- 3. FOR PART SCHEDULES, SEE DWG. P-105224 (NARROW GUTTER), AND P-080091 (WIDE GUTTER).

4" AND 5" CONDUCTOR PIPE AND CONDUCTOR STRAP DETAILS (ALL WALLS)				
DRAWN BY CHECKED BY		GROUP NUMBER: 26-008-01		
FIRST RELEASE DATE 01/21/10	REVISION DATE 03/17/21	В	P-105228	08

