

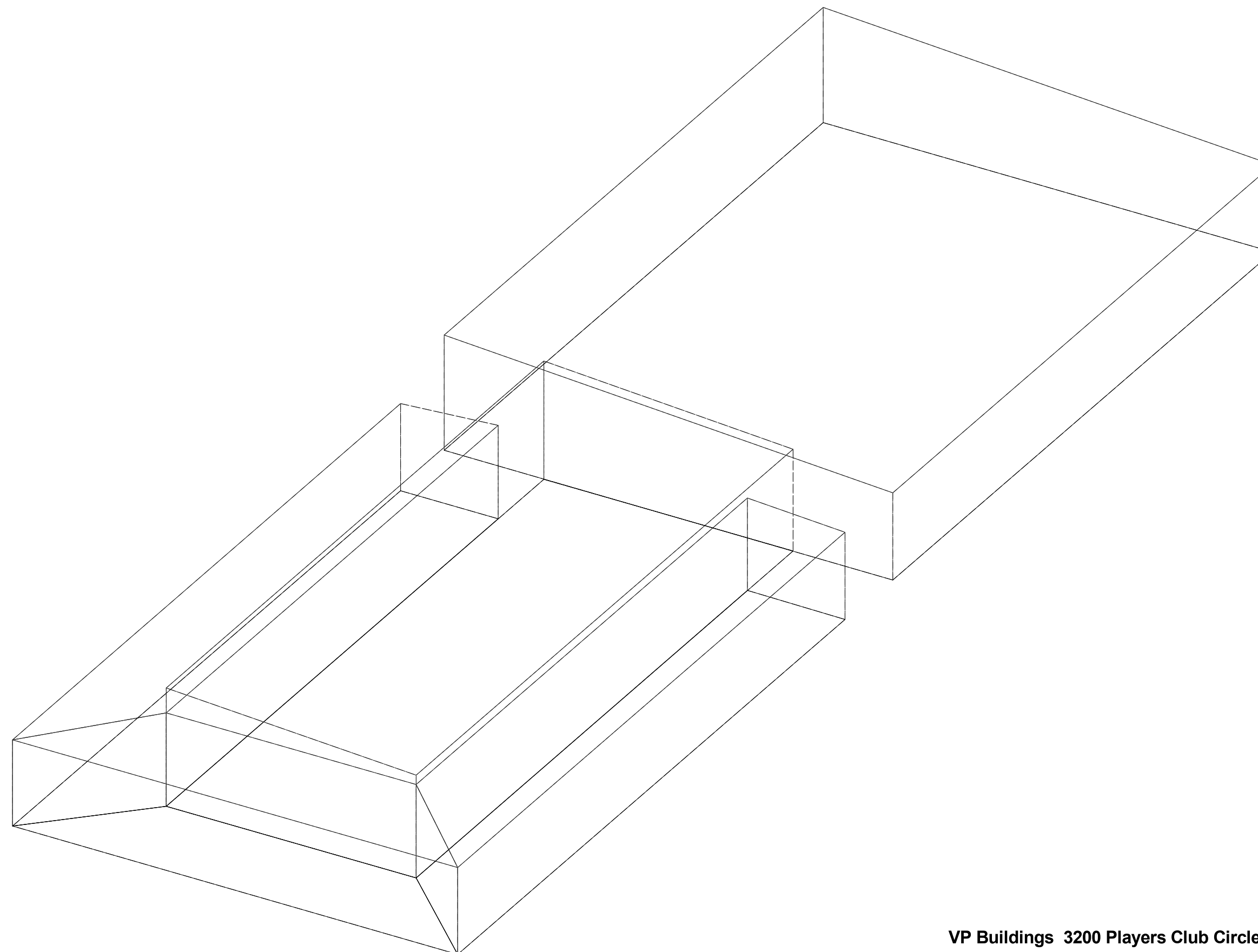


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DRAWING INDEX	
DRAWING TITLE	PAGES
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Standard Erection Details	
Planograph Details	

DRAWING RELEASE HISTORY		
TYPE	DATE	DESCRIPTION
ANCHOR ROD DRAWINGS	04/09/2024	FOR CONSTRUCTION
FINAL ERECTION DRAWINGS	5/24/2024	FOR CONSTRUCTION

BASIC ERECTION GUIDE 4001  
 BASIC PANELS AND ACCESSORIES ERECTION GUIDE 4003  
 RPR WALL PANEL ERECTION GUIDE 4030  
 SSR ROOF PANEL ERECTION GUIDE 4005



**DESIGN REVIEW**  
 PAGES 1 - 55 REVIEWED  
 BY AMJ ( 5 / 28 / 2024 ).

VP Buildings 3200 Players Club Circle Memphis TN 38125

**GENERAL NOTES**

**MATERIALS**

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

**ASTM DESIGNATION**

A529, A572, A1011, A1018  
 A653, A1011  
 A572, A510  
 A36, A529, A572, A588, A992  
 A529, A572, A588, A992  
 A500  
 A653, A792

GRADE 55  
 GRADE 60  
 GRADE 50  
 GRADE 36 OR 50  
 GRADE 50  
 GRADE B  
 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 CONTRACT.

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**

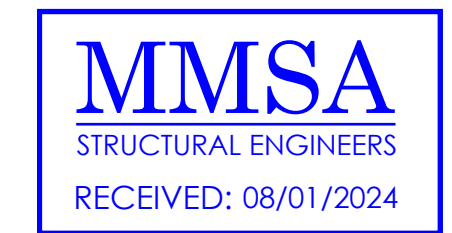
SPECIAL INSPECTIONS AND TESTING REQUIRED BY AUTHORITY HAVING JURISDICTION (AHJ) DURING CONSTRUCTION AND/OR STEEL FABRICATION IS THE RESPONSIBILITY OF THE OWNER OR OWNERS AUTHORIZED AGENT. WHEN REQUIRED, THE OWNER SHALL EMPLOY A QUALITY ASSURANCE AGENCY (QAA) APPROVED BY THE AHJ. THE BUILDER IS RESPONSIBLE 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.

REVIEWED - NO EXCEPTIONS NOTED  REVISE AND RESUBMIT  
 REVIEWED - EXCEPTIONS NOTED  REVIEWED

Checking is only for general conformance with design concept of the project and for general compliance with Contract Documents. Contractor is responsible for confirming and correcting dimensions at job sites for information which pertains to fabrication processes or construction techniques and for coordination of work of all trades. Checking of shop drawings shall not relieve the Contractor of responsibility for deviations from requirements of Contract Documents and for errors and omissions in the shop drawings.

BY: M. Simpson, P.E. DATE: 08/16/2024

**MMSA** STRUCTURAL ENGINEERS Michael M. Simpson + Associates, Inc.



This document has been electronically signed and sealed by Alan Jungnitsch, PE using my Digital Signature with PE seal affixed. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copy 2024.05.28 15:30:57-05'00'



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THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. 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 VP BUILDINGS.

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 VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.



D COVER SHEET		JOBNO	
BUILDER	Lemartec Corporation	23-016001-02	
CUSTOMER	Duke Energy	DATE	3/14/2024
LOCATION	Dunn, North Carolina	DRAWN / CHECK	CAL WSM
PROJECT	Duke Energy Dunn Operations Center - Operations	PAGE	1
BUILDERS POW	23068 - Ops	VPC VERSION: 24.1.1	
FILENAME	Duke Energy - Ops	a division of BlueScope Buildings North America, Inc.	

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: Dunn County: Harnett State: North Carolina Country: United States  
 Building Code  
 Building Code: 2018 North Carolina Building Code Structural: 10AISC - ASD Rainfall: I: 12.00 inches per hour  
 Based on Building Code: 2015 International Building Code Cold Form: 12AISI - ASD f'c: 3000.00 psi Concrete  
 Building Risk/Occupancy Category: II (Standard Occupancy Structure)

Dead and Collateral Loads  
 Collateral Gravity: 5.00 psf  
 Collateral Uplift: 0.00 psf  
 Material Dead Weight  
 Roof Covering + Second. Dead Load: Varies  
 Frame Weight (assumed for seismic): 2.50 psf  
 Roof Live Load  
 Roof Live Load: 20.00 psf Reducible

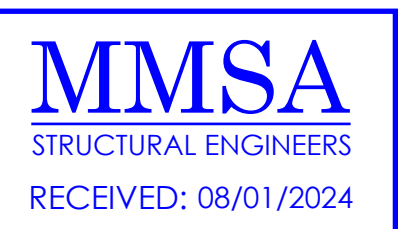
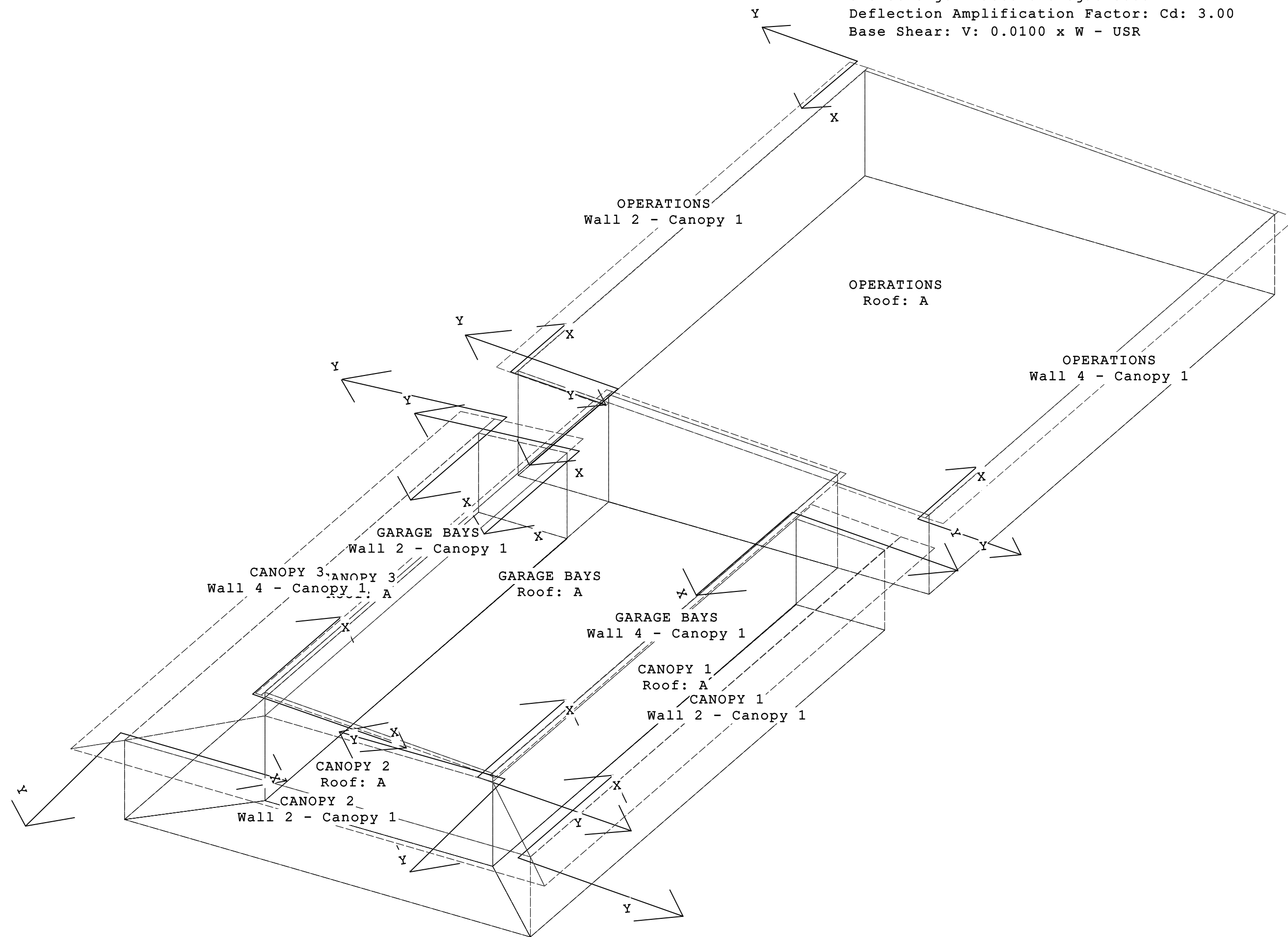
Wind Load  
 Wind Speed: Vult: 119.00 (Vasd: 92.18) mph  
 The 'All Heights' Method is Used - User Modified  
 Wind Exposure: C - Kz: 0.895  
 Parts Wind Exposure Factor: 0.895  
 Wind Enclosure: Enclosed  
 Topographic Factor: Kzt: 1.0000  
 Hurricane Prone Region  
 NOT Windborne Debris Region  
 Base Elevation: 0/0/0  
 Primary Zone Strip Width: 2a: 15/4/13  
 Parts / Portions Zone Strip Width: a: N/A  
 Velocity Pressure: qz: 27.57 psf  
 Snow Load  
 Ground Snow Load: pg: 10.00 psf  
 Flat Roof Snow: pf: 7.70 psf  
 Design Snow (Sloped): ps: 7.70 psf  
 Rain Surcharge: 0.00 psf  
 Specified Minimum Roof Snow: 10.00 psf (Code)  
 Exposure Factor: 2 Partially Exposed - Ce: 1.00  
 Snow Importance: Is: 1.000  
 Thermal Factor: Kept just above freezing - Ct: 1.10  
 Ground / Roof Conversion: 0.70  
 Obstructed or Not Slippery  
 Seismic Load  
 Lateral Force Resisting Systems using Equivalent Force Procedure  
 Mapped MCE Acceleration: Ss: 17.90 %g  
 Mapped MCE Acceleration: S1: 8.40 %g  
 Site Class: Stiff soil (D)  
 Seismic Importance: Ie: 1.000  
 Design Acceleration Parameter: Sds: 0.1909  
 Design Acceleration Parameter: Sd1: 0.0000  
 Seismic Design Category: C  
 Seismic Snow Load: 0.00 psf  
 % Snow Used in Seismic: 0.00  
 Diaphragm Condition: Rigid  
 Fundamental Period Height Used: 22/4/5

Transverse Direction Parameters  
 System NOT detailed for Seismic  
 Redundancy Factor: Rho: 1.00  
 Fundamental Period: Ta: 0.0000  
 R-Factor: 3.00  
 Overstrength Factor: Omega: 3.00  
 Deflection Amplification Factor: Cd: 3.00  
 Base Shear: V: 0.0100 x W - USR

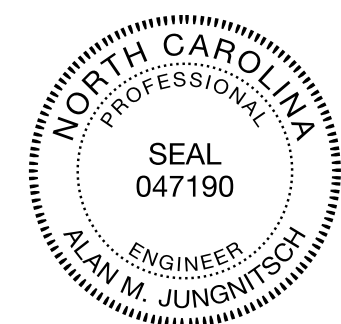
Longitudinal Direction Parameters  
 System NOT detailed for Seismic  
 Redundancy Factor: Rho: 1.00  
 Fundamental Period: Ta: 0.0000  
 R-Factor: 3.00  
 Overstrength Factor: Omega: 3.00  
 Deflection Amplification Factor: Cd: 3.00  
 Base Shear: V: 0.0100 x W - USR

Snow Buildup Shape OPERATIONS	Surface	Description	X Location	Y Location	Magnitude
OPERATIONS	Roof: A	Snow Drift (from Wall 3, Shape GARAGE BAYS) : Roof: A	0.0 ft	77.6 ft	24.1 psf
			0.0 ft	22.1 ft	24.1 psf
			12.6 ft	22.1 ft	0.0 psf
CANOPY 1	Roof: A	Snow Drift (from Wall 4, Shape GARAGE BAYS) : Roof: A	12.6 ft	77.6 ft	0.0 psf
			0.0 ft	0.0 ft	24.1 psf
			0.0 ft	10.1 ft	0.0 psf
CANOPY 2	Roof: A	Snow Drift (from Wall 1, Shape GARAGE BAYS) (1 of 3) : Roof: A	127.2 ft	0.0 ft	46.1 psf
			36.9 ft	0.0 ft	46.1 psf
			36.9 ft	13.1 ft	0.0 psf
CANOPY 2	Roof: A	Snow Drift (from Wall 1, Shape GARAGE BAYS) (2 of 3) : Roof: A	55.3 ft	0.0 ft	0.0 psf
			36.9 ft	0.0 ft	37.3 psf
			18.4 ft	12.9 ft	0.0 psf
CANOPY 2	Roof: A	Snow Drift (from Wall 1, Shape GARAGE BAYS) (3 of 3) : Roof: A	18.4 ft	0.0 ft	28.5 psf
			36.9 ft	0.0 ft	28.5 psf
			0.0 ft	12.7 ft	0.0 psf
CANOPY 3	Roof: A	Snow Drift (from Wall 2, Shape GARAGE BAYS) : Roof: A	18.4 ft	12.7 ft	0.0 psf
			127.2 ft	0.0 ft	30.5 psf
			127.2 ft	8.0 ft	0.0 psf
CANOPY 3	Roof: A	Snow Drift (from Wall 1, Shape OPERATIONS) : Roof: A	6.9 ft	8.0 ft	0.0 psf
			0.0 ft	4.5 ft	13.4 psf
			0.0 ft	0.0 ft	30.5 psf
CANOPY 3	Roof: A	Snow Drift (from Wall 1, Shape OPERATIONS) : Roof: A	-6.8 ft	1.0 ft	26.7 psf
			-6.8 ft	21.6 ft	50.4 psf
			13.0 ft	21.6 ft	0.0 psf
CANOPY 3	Wall 4 - Canopy 1	Snow Drift (from Wall 1, Shape OPERATIONS) : Wall: 4 - Canopy: 1	6.9 ft	8.0 ft	0.0 psf
			-6.8 ft	0.0 ft	25.5 psf
			10.0 ft	0.0 ft	50.4 psf
CANOPY 3	Wall 4 - Canopy 1	Snow Drift (from Wall 1, Shape OPERATIONS) : Wall: 4 - Canopy: 1	0.0 ft	0.5 ft	50.4 psf
			19.8 ft	0.5 ft	0.0 psf
			19.8 ft	0.0 ft	0.0 psf

- The Snow Buildup loading shown is in addition to the flat or sloped roof snow.
- The X and Y Location dimensions are from the point of origin of each surface.



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05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

FOR CONSTRUCTION

<p>THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.</p>	<p>THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. 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 VP BUILDINGS.</p> <p>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 VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.</p>	<p><b>D</b> VP Buildings          3200 Players Club Circle Memphis TN 38125</p>	<p><b>CODES AND LOADS</b></p>		<p>JOBNO          23-016001-02          DATE          3/14/2024          DRAWN/CHECK          CAL WSM          PAGE          2</p>
			<p>REV DATE BY DESCRIPTION</p>	<p>BUILDER Lemartec Corporation          CUSTOMER Duke Energy          LOCATION Dunn, North Carolina          PROJECT Duke Energy Dunn Operations Center - Operations          BUILDERS PO# 23068 - Ops          VPC VERSION: 24.1.1</p>	

**BUILDER/CONTRACTOR RESPONSIBILITIES**

VP Buildings follows the guidelines as outlined in the AISC and MBMA Codes of Standard Practice. VP Buildings standard product specifications, design, fabrication, quality criteria shall govern all work unless stipulated otherwise in the contract documents. In case of discrepancies between VP Buildings structural plans and plans for other trades, VP Buildings 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 VP Buildings drawings constitutes the builders acceptance of VP interpretation of the contract purchase order. Unless specific design criteria concerning interface design and details are furnished as part of the contract, VP Buildings design assumptions shall govern.

VP engineers are not Project Engineers or Engineer of Record for the overall project. VP engineering supply sealed engineering design data and drawings for VP 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 VP 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 VP Buildings "FOR CONSTRUCTION" drawings and all applicable product installation guides. VP is not responsible for work done from any other VP 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. VP 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 accommodate 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**

VP must be advised of any structure that is within 20 ft. of VP's building. Load effects from snow drifting, wind effects, and seismic separation must be considered for both the new and existing structures. VP has designed the new VP 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 VP 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 VP 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 VP components. VP accepts no responsibility for design or installation of bracing systems not furnished by VP.

**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).

**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.

**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.

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 VP'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 VP 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 VP building has been provided to avoid structural damage due to differential movements, or inadvertently apply loads to the VP structure. VP 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 VP of any special requirements to be furnished by VP.

**FIELD MODIFICATIONS**

Modifications to this building from details and instructions contained on these drawings must be approved in writing by VP Buildings 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. VP Buildings accepts no responsibility for the consequences of any unauthorized additions, alterations, or added loads to this structure.

If the builder intends to invoice VP Buildings for modifications in excess of \$1000, The builder must notify VP Buildings immediately, and obtain a Work Authorization from VP Buildings prior to proceeding. All final claims must be submitted to VP Buildings 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 VP Buildings, any wall to steel compatibility issues such as drift and deflection compatibility, special base details, and wall to VP 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 VP 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 VP, 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. VP 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 VP'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 VP shop coat that the painting contractor verifies compatibility between his finish coat and VP's shop coat.

**VP BUILDINGS 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 & 429;  
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 Varco Pruden Buildings, 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

**ICC Evaluation Reports (www.icc-es.org)**

SSR Roof System - #ESR-2527

**State of Florida Product Approvals (www.floridabuilding.org)**

Approved Products Listed Under VP Buildings, Inc.  
VP TextureClad - See Transamerican Structuroc, Inc.

**Dade Co. Product Approval (www.miamidade.gov/buildingcode)**

Approved Products Listed Under Varco Pruden Buildings, Inc.  
VP TextureClad - See Transamerican Structuroc, Inc.

**Underwriter's Laboratory Approvals (Available only when specified in contract)**

SSR Roof-UL#TGKX-113; SSR Composite Roof Class 90-UL#TGKX-113A;  
SSR Roof w/Super Block; Class 90-UL#TGKX-328;  
Panel Rib Roof UL Class 60-UL#TGKX-60; Panel Rib Roof UL Class 90-UL#TGKX-64;  
VP SLR II Roof Class 90-UL#TGKX-90, -180, -435, -435A, -176, -238, -238A, -238B

**Factory Mutual Approved Assemblies (Available only when specified in contract)**

SSR Roof Systems are approved in various type applications and listed in FM Approval Guide.  
24 Ga SSR (0.0227" Nominal), is available in Class 1-60, 1-75, 1-90. 22Ga SSR (0.0277" Nominal), is available in Class 1-75, 1-90, 1-120.

**SLR II Roof Systems are approved in various type applications and listed in FM Approval Guide.**

24 Ga SLR II (0.0227" Nominal), is available in Class 1-75 and 1-120.

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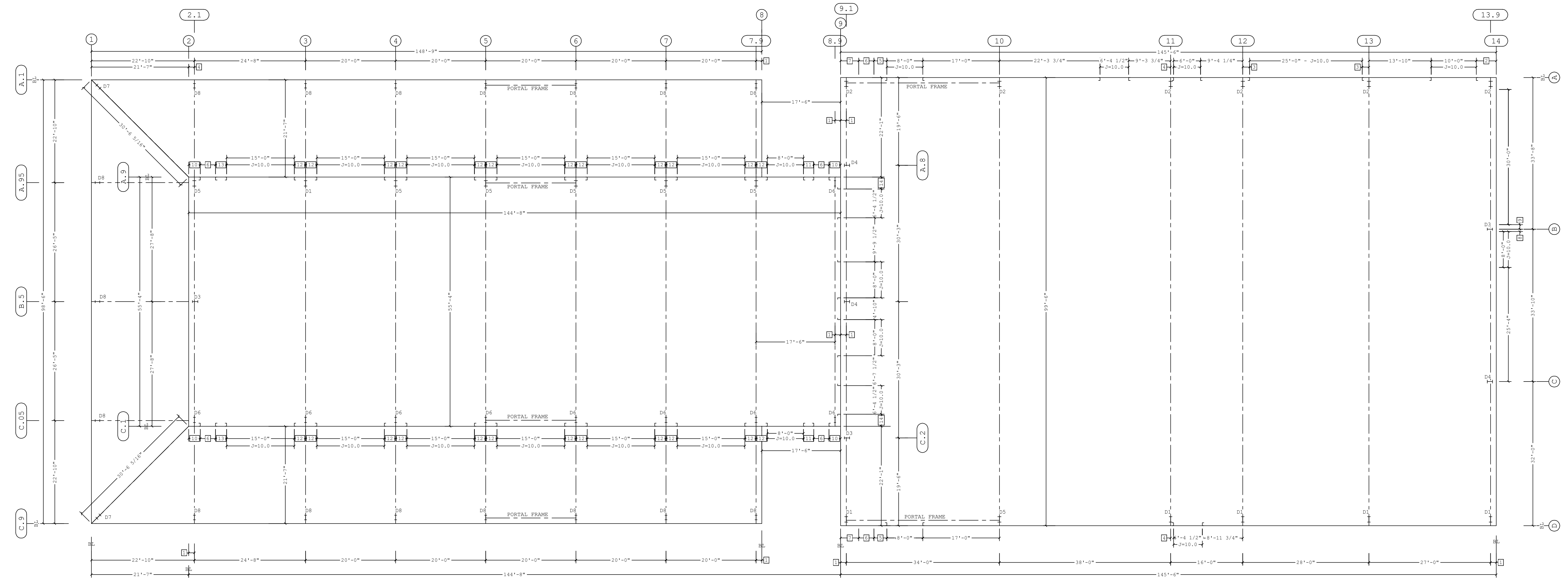
05/28/2024

BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
NORTH CAROLINA REGISTERED ENGINEERING  
FIRM F-0998



**FOR CONSTRUCTION**

<p>THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.</p>	<p>THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. 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 VP BUILDINGS.</p> <p>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 VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.</p>	<table border="1"> <tr> <td rowspan="5" style="text-align: center; vertical-align: middle;"><b>D</b></td> <td colspan="3" style="text-align: center;">VP Buildings</td> </tr> <tr> <td colspan="3" style="text-align: center;">3200 Players Club Circle Memphis TN 38125</td> </tr> <tr> <td>REV</td> <td>DATE</td> <td>BY DESCRIPTION</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td colspan="3" style="text-align: center;">NTS</td> </tr> </table>	<b>D</b>	VP Buildings			3200 Players Club Circle Memphis TN 38125			REV	DATE	BY DESCRIPTION				NTS			<p><b>ERECTION NOTES</b></p> <p>BUILDER Lemartec Corporation</p> <p>CUSTOMER Duke Energy</p> <p>LOCATION Dunn, North Carolina</p> <p>PROJECT Duke Energy Dunn Operations Center - Operations</p> <p>BUILDERS PO# 23068 - Ops</p> <p>5/21/2024 20:29:26</p> <p>FILENAME: Duke Energy - Ops</p>	<table border="1"> <tr> <td rowspan="4" style="text-align: center;">                   VARCO PRUDEN                  A BlueScope Steel Company             </td> <td>JOBNO 23-016001-02</td> </tr> <tr> <td>DATE 3/14/2024</td> </tr> <tr> <td>DRAWN/CHECK CAL WSM</td> </tr> <tr> <td>PAGE 3</td> </tr> </table> <p style="text-align: right; font-size: small;">a division of BlueScope Buildings North America, Inc.</p>	 VARCO PRUDEN A BlueScope Steel Company	JOBNO 23-016001-02	DATE 3/14/2024	DRAWN/CHECK CAL WSM	PAGE 3
<b>D</b>	VP Buildings																								
	3200 Players Club Circle Memphis TN 38125																								
	REV	DATE		BY DESCRIPTION																					
	NTS																								
 VARCO PRUDEN A BlueScope Steel Company	JOBNO 23-016001-02																								
	DATE 3/14/2024																								
	DRAWN/CHECK CAL WSM																								
	PAGE 3																								



- 15 0'-0"
- 14 2'-8"
- 13 2'-5 5/8"
- 12 2'-6"
- 11 2'-3 5/8"
- 10 2'-6 7/8"
- 9 1'-0"
- 8 6"
- 7 4'-0 1/2"
- 6 3'-4 1/2" J=8050
- 5 2'-10"
- 4 7 3/4"
- 3 1'-6"
- 2 4'-5"
- 1 1'-3"

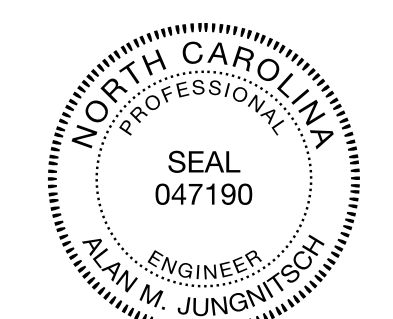
Dimension Key

## ANCHOR ROD PLAN

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



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NORTH CAROLINA REGISTERED ENGINEERING  
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<> THE BUILDING IS DESIGNED WITH BRACING DIAGONALS IN THE DESIGNATED BAYS. COLUMN BASE REACTIONS, BASE PLATES AND ANCHOR RODS ARE AFFECTED BY THIS BRACING AND DIAGONALS MAY NOT BE RELOCATED WITHOUT CONSULTING THE BUILDING SUPPLIERS ENGINEER.

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

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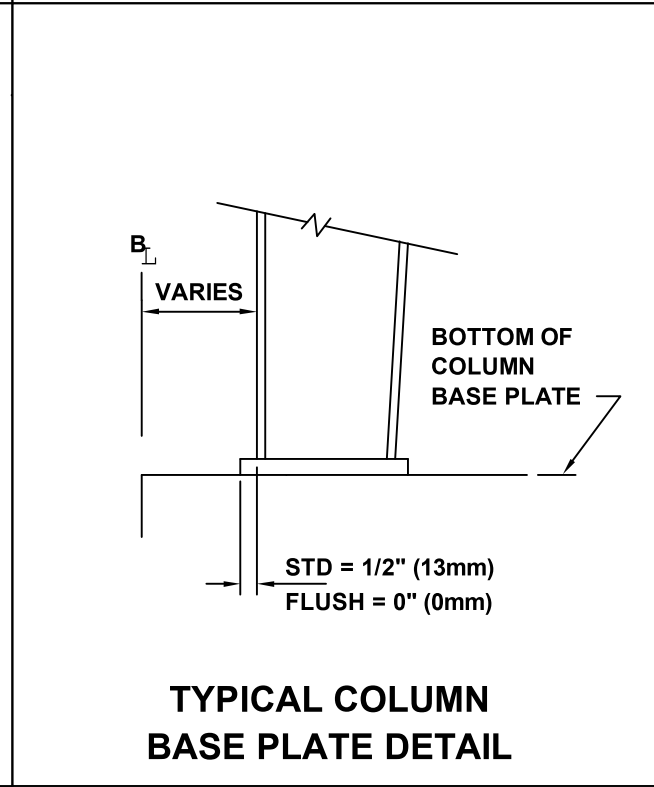
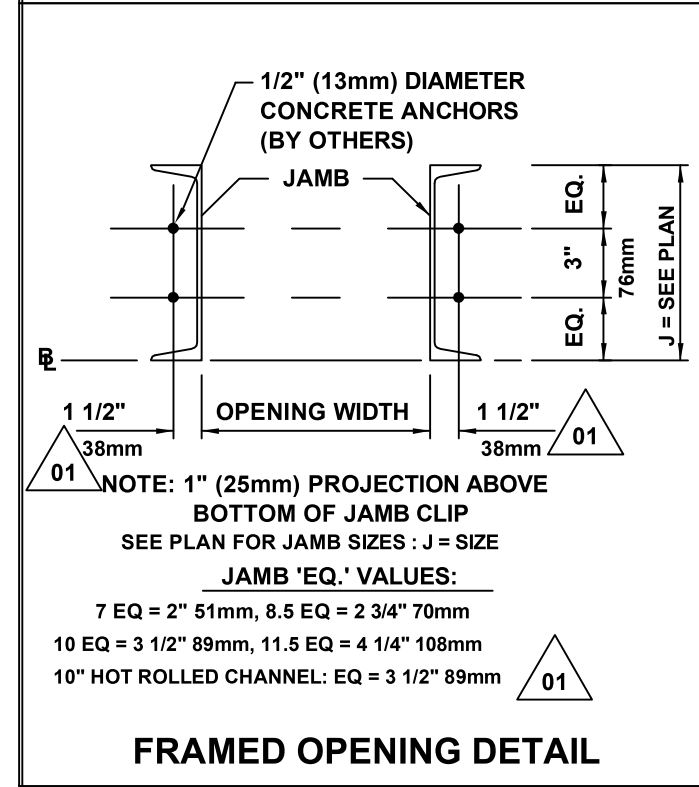
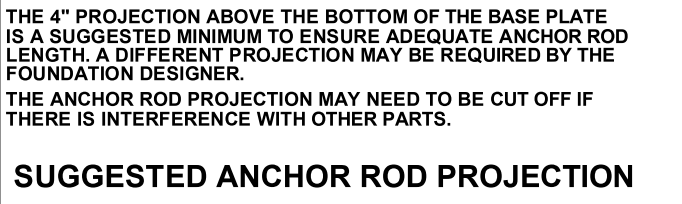
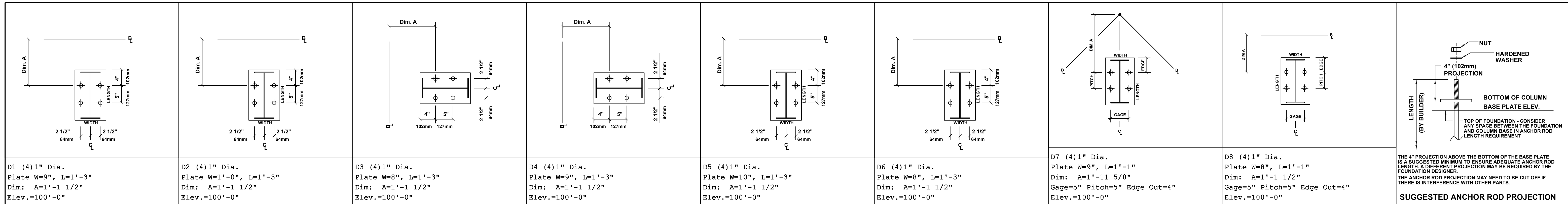
THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING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

VP Buildings				ANCHOR ROD PLAN	
3200 Players Club Circle Memphis TN 38125					
REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation
				CUSTOMER	Duke Energy
				LOCATION	Dunn, North Carolina
				PROJECT	Duke Energy Dunn Operations Center - Operations
				BUILDERS PO#	23068 - Ops
NTS					



JOBNO	23-016001-02
DATE	3/14/2024
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PAGE	4

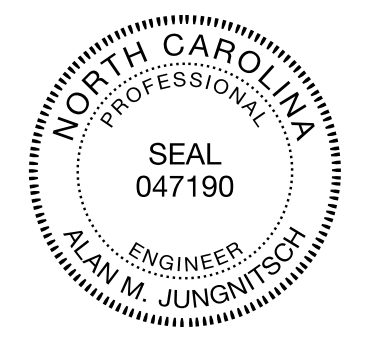
MODIFIED IN AUTOCAD



- ANCHOR RODS, NUTS, HARDENED WASHERS AND ANY OTHER EMBEDDED ITEMS ARE TO BE FURNISHED BY CONTRACTOR.
- ANCHOR ROD DIAMETERS WERE DETERMINED BY ALLOWABLE SHEAR AND TENSION PER AISC SPECIFICATIONS (FY=36KSI). (ASTM F1554 GRADE 36) ANCHOR ROD LENGTH, EFFECTS OF EMBEDDED ANCHOR ROD EDGE DIMENSIONS AND METHOD OF TRANSFERRING FORCES FROM ANCHOR RODS TO FOOTINGS ARE TO BE DETERMINED BY OTHERS.
- UNLESS OTHERWISE SPECIFIED, ANCHOR RODS ARE DESIGNED AND DETAILED AS "CAST-IN-PLACE" ANCHOR RODS WITH "SNUG TIGHT" CONNECTIONS.
- FOUNDATION MUST BE LEVEL, SQUARE AND SMOOTH. ANCHOR RODS MUST BE ACCURATELY PLACED AS SHOWN ON THIS DRAWING OR STEEL WILL NOT FIT. THE BUILDER IS RESPONSIBLE FOR ACCURATE SETTING OF ANCHOR RODS PER AISC CODE OF STANDARD PRACTICE, SEC 1.5. VARIATIONS ARE SUMMARIZED BELOW:
  - CENTERS OF ANY TWO ARS WITHIN A COLUMN BASE GROUP; +1/8"
  - CENTERS OF ADJACENT AR GROUPS; +1/4"
  - TOPS OF ARS; +1/2"
  - ACCUMULATED DIM BETWEEN CENTERS OF AR GROUPS ALONG COLUMN LINE; +1/4" PER 100FT., NOT TO EXCEED 1" TOTAL.
  - DIM FROM CENTER OF ANY AR GROUP FROM COLUMN LINE; +1/4"
- DESIGN LOADS AND REACTIONS ARE FURNISHED IN THE REACTIONS REPORT.



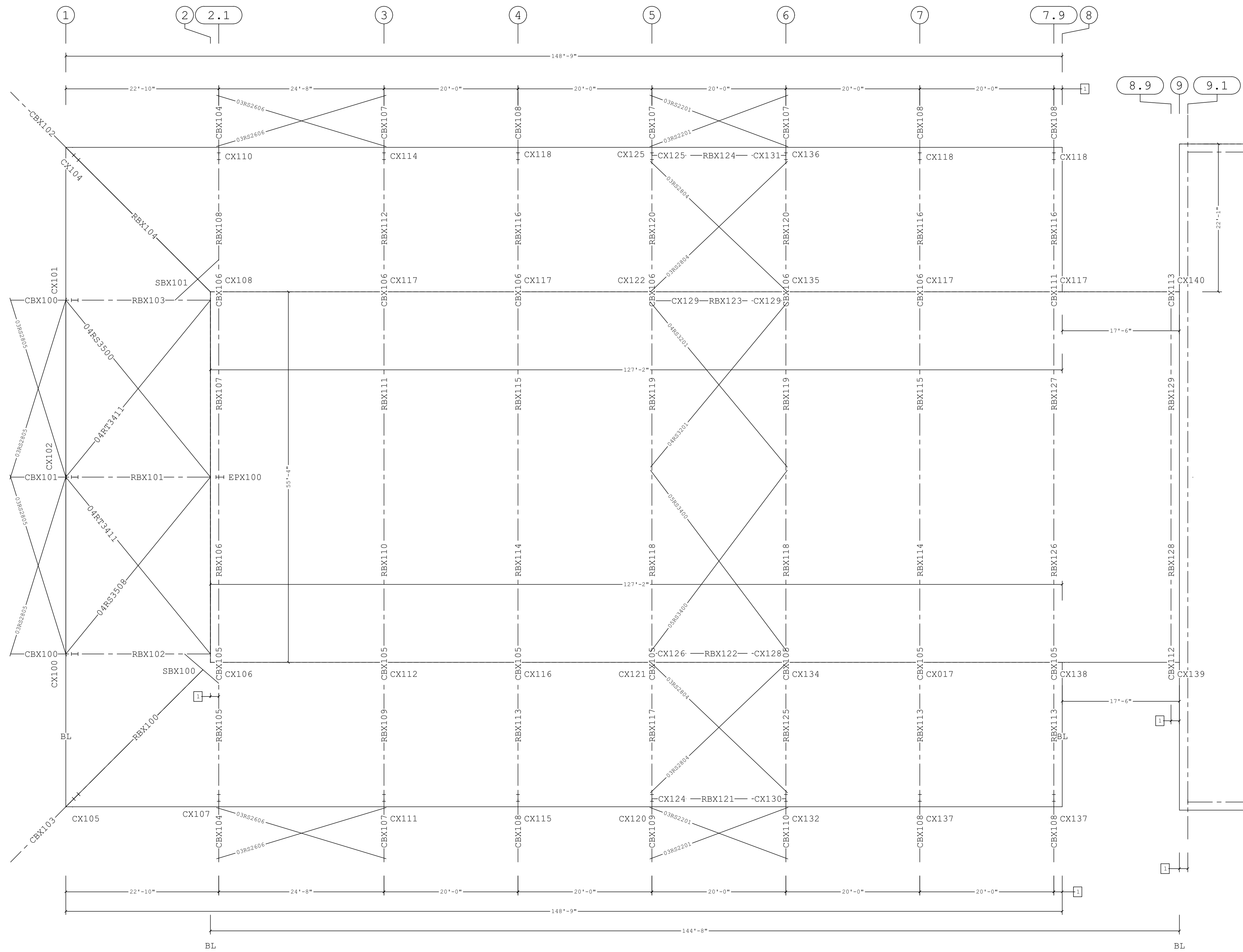
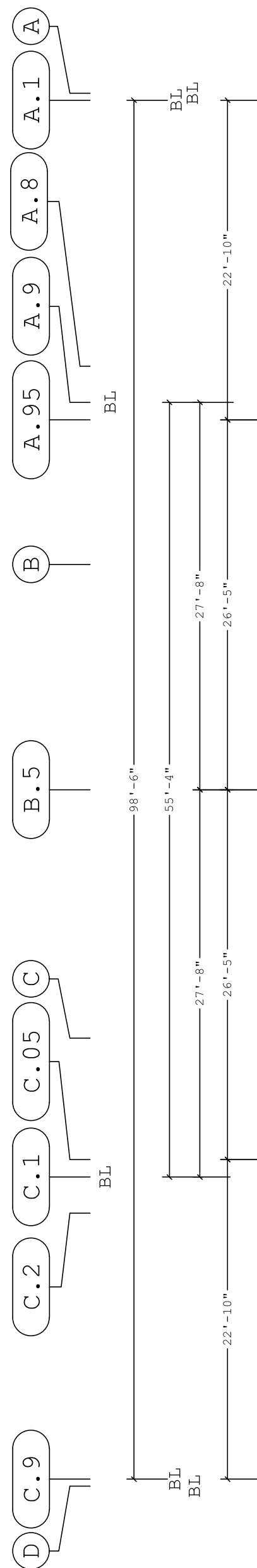
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			REV 01 DATE 04/09/24 BY sy DESCRIPTION revised framed opening detail bolt distance	BUILDER Lemartec Corporation CUSTOMER Duke Energy LOCATION Dunn, North Carolina PROJECT Duke Energy Dunn Operations Center - Operations BUILDERS PO# 23068 - Ops NTS

Part	Qty	Length	Detail
04RS3201	2	32'-1"	BR01G2
05RS3400	2	34'-0"	BR01G2
03RS2804	4	28'-4"	BR01G2
03RS2606	4	26'-6"	BR01G2
03RS2201	4	22'-1"	BR01G2
03RS2805	4	28'-5"	BR01G2
04RT3411	2	34'-11"	BR01G2
04RS3500	1	35'-0"	BR01G2
04RS3504	1	35'-4"	BR01G2



PRIMARY AND ROOF BRACING PLAN

OPERATIONS BLDG.



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2 0'-0"  
 1 1'-3"  
 □ Dimension Key

Shape Name = OPERATIONS, Shape = GARAGE BAYS, Shape = CANOPY 1, Shape = CANOPY 2, Shape = CANOPY 3

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.

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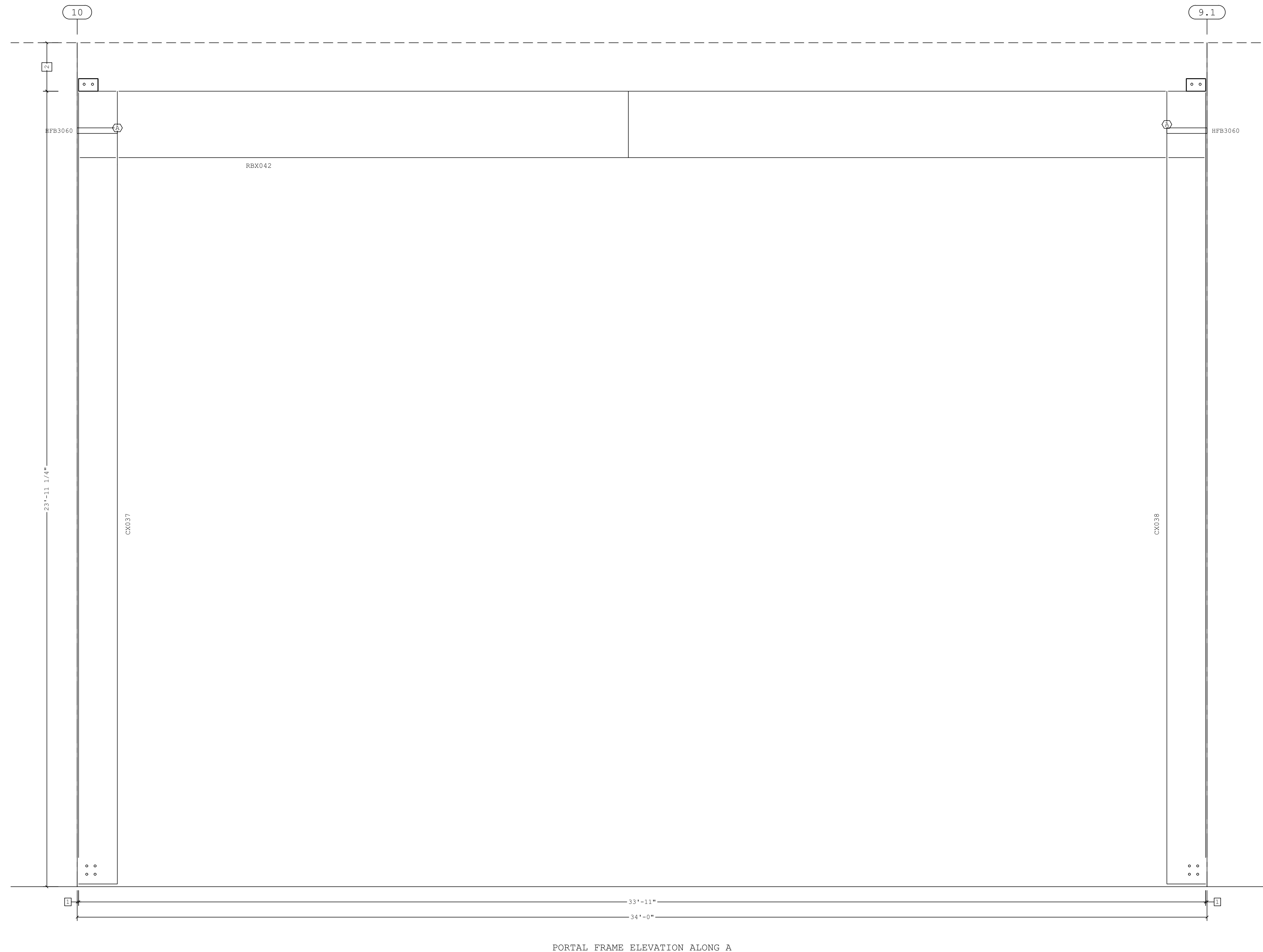
D			
VP Buildings			
3200 Players Club Circle Memphis TN 38125			
REV	DATE	BY	DESCRIPTION
NTS			

PRIMARY AND ROOF BRACING PLAN			
BUILDER	Lemartec Corporation		
CUSTOMER	Duke Energy		
LOCATION	Dunn, North Carolina		
PROJECT	Duke Energy Dunn Operations Center - Operations		
BUILDERS PO#	23068 - Ops		
BUILDER	VP BUILDINGS	MARCO PRUDEN	
VP VERSION	24.1.1		
JOBNO	23-016001-02		
DATE	3/14/2024		
DRAWN/CHECK	CAL WSM		
PAGE	6		

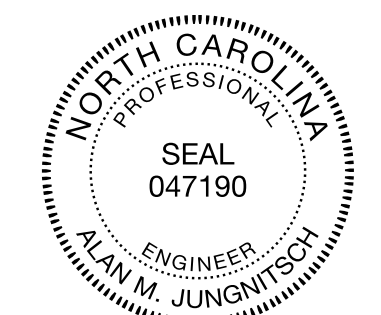
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX037	1	9.0000	.5000	.1644	1'-2"	1'-2"	23'-10 1/4"	920#
RBX042	2-3	9.0000	.3750	.1644	2'-0"	2'-0"	31'-7"	1201#
CX038	4	9.0000	.5000	.1644	1'-2"	1'-2"	23'-10 1/4"	920#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	14	A325	3/4"	2 1/2"	1/2"	4	3	0097284		

Frame Clearances  
 Horiz. Clearance between members 1(CX037) and 4(CX038): 31'-7"  
 Vert. Clearance at member 1(CX037): 21'-8 3/4"  
 Vert. Clearance at member 4(CX038): 21'-8 3/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



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**FOR CONSTRUCTION**

2 1'-5 1/2"  
 1 1/2"  
 Dimension Key

Shape Name = OPERATIONS Wall 2, Frame 5

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.

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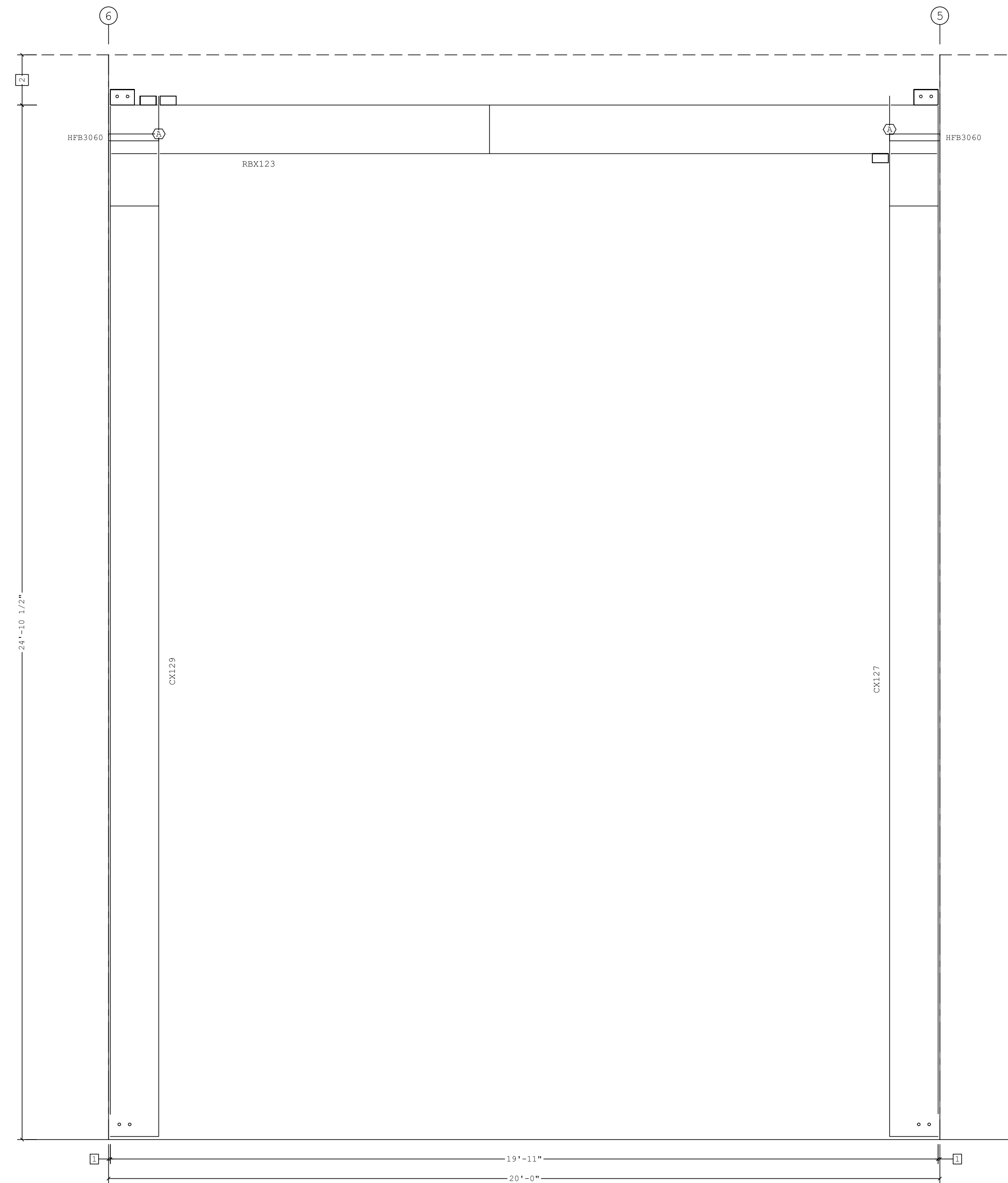
REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS PO#	JOBNO	DATE	DRAWN/CHECK	CAL	WSP	PAGE
				VP Buildings	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center	23068 - Ops	23-016001-02	3/14/2024			WSM	7
VP Buildings 3200 Players Club Circle Memphis TN 38125				PORTAL FRAME ELEVATION ALONG A										
NTS				A BlueScope Steel Company VPC VERSION: 24.1.1										

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX129	1	9.0000	.3750	.1644	1'-2"	1'-2"	24'-9 5/8"	781#
	2	9.0000	.3750	.2500	1'-2"	1'-2"		
RBX123	3-4	9.0000	.3750	.1644	1'-2"	1'-2"	17'-7"	571#
CX127	5	9.0000	.3750	.2500	1'-2"	1'-2"	24'-9 5/8"	780#
	6	9.0000	.3750	.1644	1'-2"	1'-2"		

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	12	A325	3/4"	2 1/2"	3/8"	2	2	0097284		

Frame Clearances  
 Horiz. Clearance between members 1(CX041) and 5(CX042): 17'-7"  
 Horiz. Clearance between members 1(CX041) and 6(CX042): 17'-7"  
 Horiz. Clearance between members 2(CX041) and 5(CX042): 17'-7"  
 Horiz. Clearance between members 2(CX041) and 6(CX042): 17'-7"  
 Vert. Clearance at member 2(CX041): 23'-5 7/8"  
 Vert. Clearance at member 5(CX042): 23'-5 7/8"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



PORTAL FRAME ELEVATION ALONG A.9

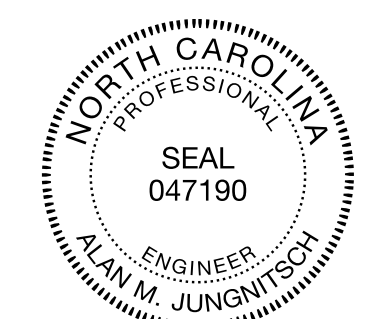
- 2 1'-2 1/2"
- 1 1/2"

□ Dimension Key

Shape Name = GARAGE BAYS Wall 2, Frame 4



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VP Buildings			
3200 Players Club Circle Memphis TN 38125			
REV	DATE	BY	DESCRIPTION
NTS			

PORTAL FRAME ELEVATION ALONG A.9	
BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - Operations
BUILDERS PO#	23068 - Ops
 VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1	
JOBNO	23-016001-02
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DRAWN/CHECK	CAL WSM
PAGE	9

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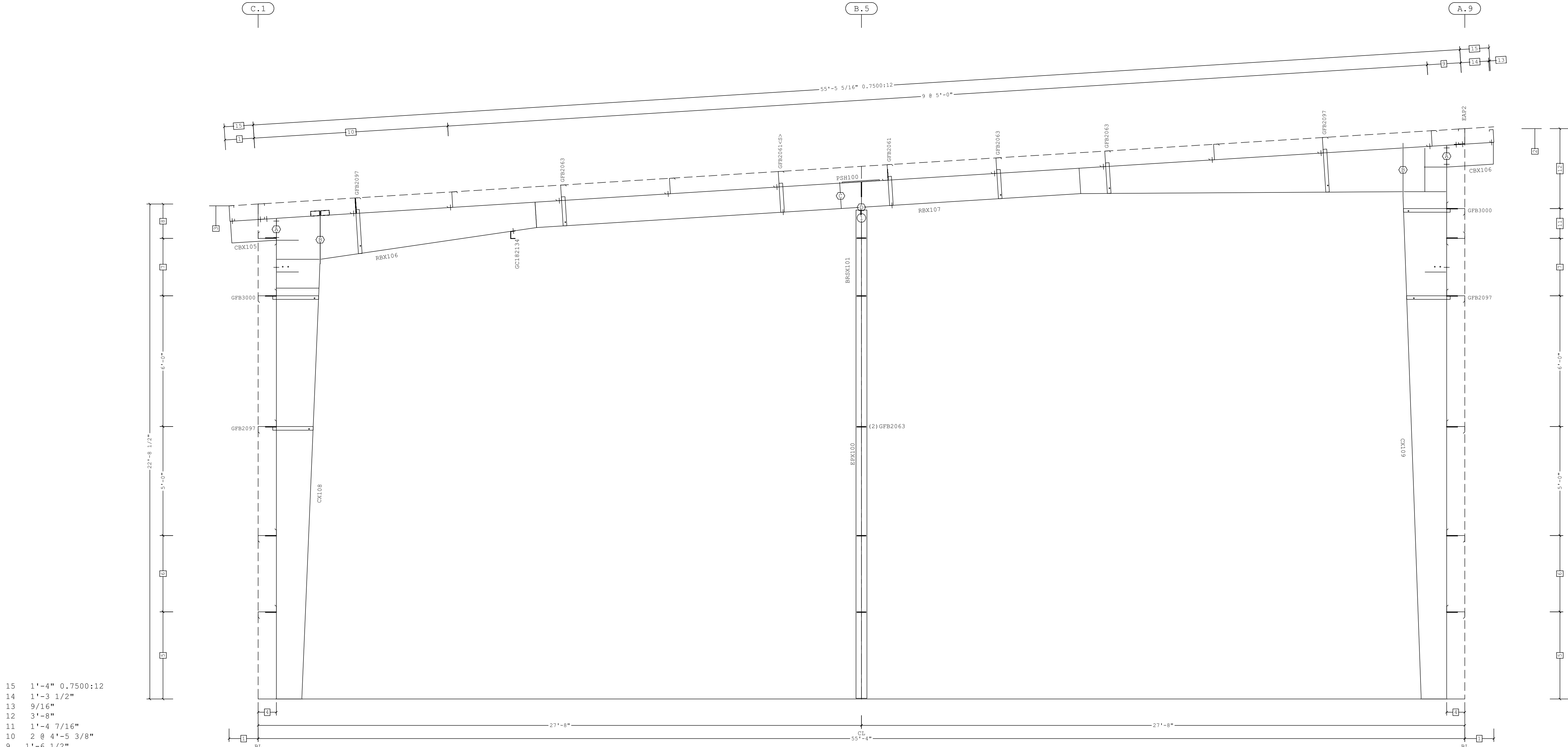
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Detail	Cee Mark No
CBX105	10001	5.0000	.2500	.1345	1'-0"	1'-0"	2'-2 1/2"	35#		
CBX008	10002	5.0000	.2500	.1345	1'-0"	1'-0"	2'-1 1/4"	34#		
CX108	1	6.0000	.2500	.1345	1'-2"	1'-11 7/16"	22'-2 1/8"	494#		
	2	6.0000	.2500	.1875	1'-11 7/16"	2'-0"				
RBX106	3	6.0000	.2500	.1345	2'-0"	1'-2"	24'-11 15/16"	471#		
	4	6.0000	.2500	.1345	1'-2"	1'-2"				
RBX107	5	6.0000	.2500	.1345	1'-2"	1'-2"	24'-10 9/16"	473#		
	6	6.0000	.2500	.1345	1'-2"	2'-0"				
CX014	7	9.0000	.3750	.1345	1'-2"	2'-0"	25'-4 13/16"	883#		
EPX100	8	6.0000	.2500	.1345	1'-2"	1'-2"	22'-5 3/16"	395#	BR25BD	JCP053083
BSRX101		5.0000	0.1875	.1345	7"	7"	4'-3 3/4"	60#		

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	4	A325	1/2"	1 1/2"	1/4"	1	1	49080
B	8	A325	3/4"	2 1/2"	3/8"	2	2	0097284
C	4	A325	3/4"	2 1/2"	1/2"	1	1	0097284
D	2	A325	3/4"	2 1/2"	-	-	-	0097284

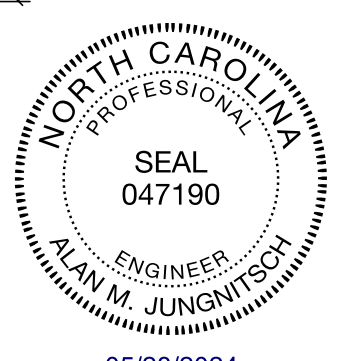
<S> - (2) Washers (095872) req'd at Flange Brace to Secondary.

Frame Clearances  
 Horiz. Clearance between members 1(CX013) and 7(CX014): 49'-8 9/16"  
 Horiz. Clearance between members 2(CX013) and 7(CX014): 49'-8"  
 Vert. Clearance at member 2(CX013): 19'-11 5/8"  
 Vert. Clearance at member 7(CX014): 23'-0 11/16"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



15	1'-4"	0.7500:12
14	1'-3 1/2"	
13	9/16"	
12	3'-8"	
11	1'-4 7/16"	
10	2 @ 4'-5 3/8"	
9	1'-6 1/2"	
8	1'-6 15/16"	
7	2'-7 9/16"	
6	3'-6"	
5	4'-0"	
4	10"	
3	22'-7 1/2"	
2	26'-2"	
1	1'-4"	

FRAME CROSS SECTION AT FRAME LINE(S) 2.1



05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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**FOR CONSTRUCTION**

Shape Name = GARAGE BAYS Wall 4, Frame 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, UNLESS NOTED OTHERWISE.  
 2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.

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D VP Buildings			
REV	DATE	BY	DESCRIPTION

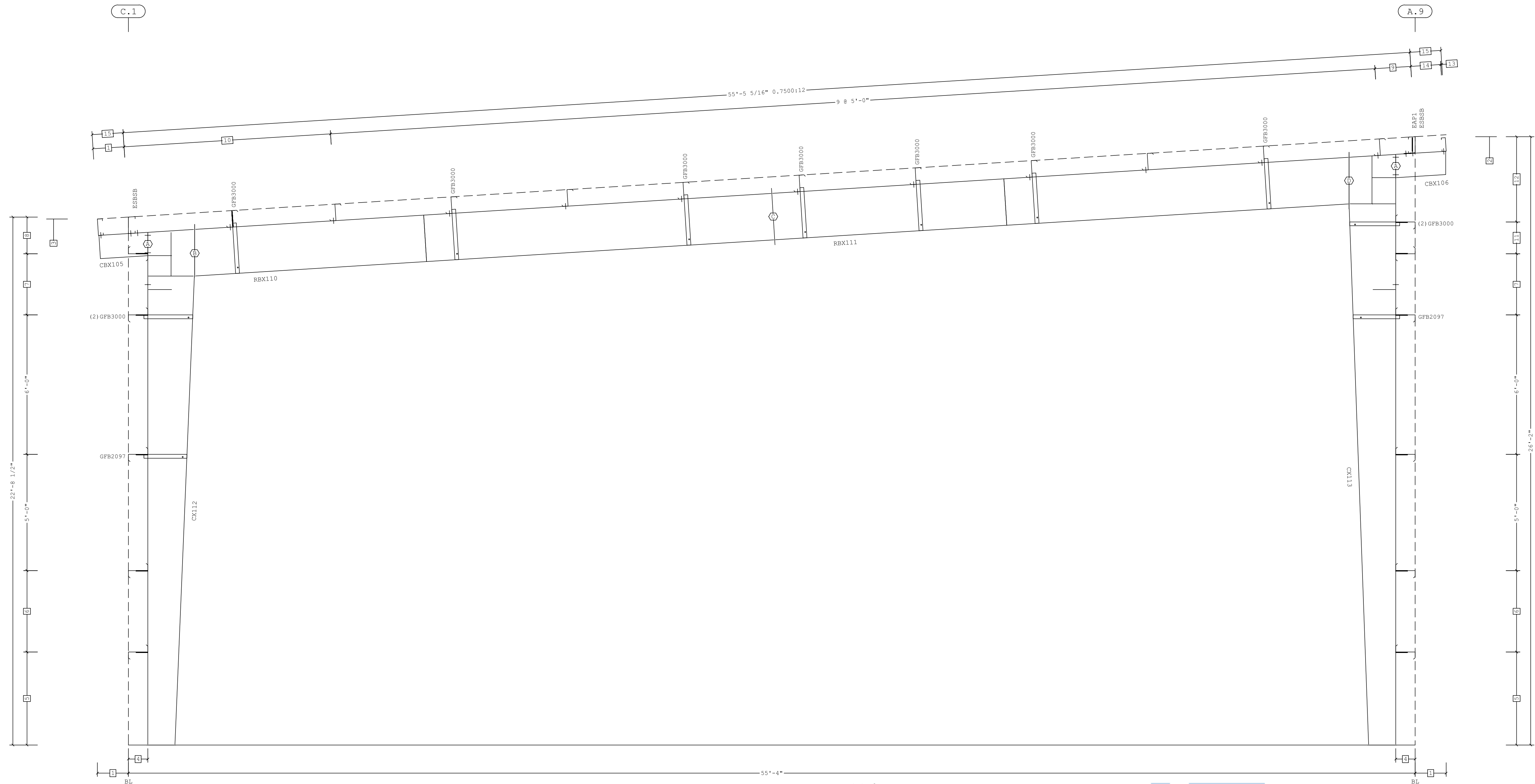
3200 Players Club Circle Memphis TN 38125			FRAME CROSS SECTION AT FRAME LINE(S) 2.1 (a)		
BUILDER	Lemartec Corporation	CUSTOMER	Duke Energy	LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - Operations	BUILDERS FOR	23068 - Ops	JOBNO	23-016001-02
NTS				DATE	3/14/2024
				DRAWN/CHECK	CAL WSM
				PAGE	10

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX105	10001	5.0000	.2500	.1345	1'-0"	1'-0"	2'-2 1/2"	35#
CBX106	10002	5.0000	.2500	.1345	1'-0"	1'-0"	2'-1 1/4"	34#
CX112	1	6.0000	.3125	.1644	1'-2"	2'-0"	22'-2 1/16"	585#
RBX110	2-3	6.0000	.3750	.1644	2'-0"	2'-0"	24'-11 7/8"	749#
RBX111	4-5	6.0000	.3750	.1644	2'-0"	2'-0"	24'-10 7/16"	738#
CX113	6	8.0000	.2500	.1644	1'-2"	2'-0"	25'-4 13/16"	691#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	4	A325	1/2"	1 1/2"	1/4"	1	1	49080		
B	8	A325	3/4"	2 1/2"	1/2"	2	2	0097284		
C	10	A325	3/4"	2 1/2"	3/8"	2	3	0097284		
D	14	A325	3/4"	2 1/2"	3/8"	3	4	0097284		

Frame Clearances  
 Horiz. Clearance between members 1(CX015) and 6(CX016): 49'-8"  
 Vert. Clearance at member 1(CX015): 20'-1 9/16"  
 Vert. Clearance at member 6(CX016): 23'-0 11/16"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 15 1'-4" 0.7500:12
- 14 1'-3 1/2"
- 13 1/2"
- 12 3'-8"
- 11 1'-4 7/16"
- 10 2 @ 4'-5 3/8"
- 9 1'-6 1/2"
- 8 1'-6 15/16"
- 7 2'-7 9/16"
- 6 3'-6"
- 5 4'-0"
- 4 10"
- 3 22'-7 1/2"
- 2 26'-2"
- 1 1'-4"

□ Dimension Key

FRAME CROSS SECTION AT FRAME LINE(S) 3

Shape Name = GARAGE BAYS Wall 4, Frame 2



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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.

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VP Buildings				FRAME CROSS SECTION AT FRAME LINE(S) 3 (a)			
3200 Players Club Circle Memphis TN 38125							
REV	DATE	BY	DESCRIPTION	BUILDER			
				Lemartec Corporation			
				Duke Energy			
				Dunn, North Carolina			
				Duke Energy Dunn Operations Center - Operations			
				23068 - Ops			
NTS							



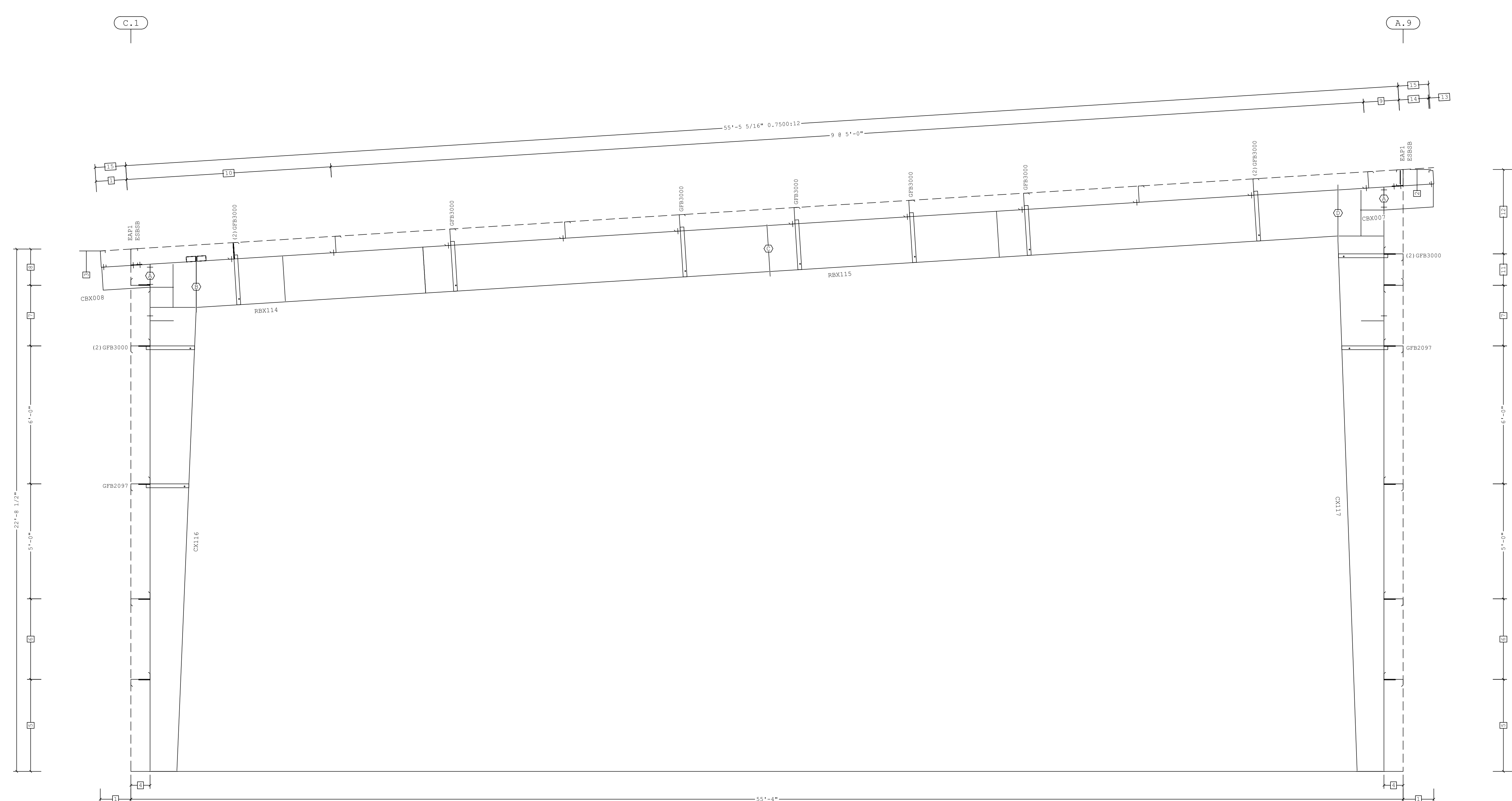
JOBNO	23-016001-02
DATE	3/14/2024
DRAWN/CHECK	CAL WSM
PAGE	11

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX007	10001	5.0000	.2500	.1345	1'-0"	1'-0"	2'-2 1/2"	35#
CBX008	10002	5.0000	.2500	.1345	1'-0"	1'-0"	2'-1 1/4"	34#
CX017	1	6.0000	.2500	.1644	1'-2"	2'-0"	22'-2 1/16"	525#
RBX026	2	6.0000	.3125	.1345	2'-0"	2'-0"	24'-11 15/16"	589#
RBX027	3	6.0000	.2500	.1345	2'-0"	2'-0"		
RBX027	4	6.0000	.2500	.1345	2'-0"	2'-0"	24'-10 9/16"	590#
RBX027	5	6.0000	.2500	.1644	2'-0"	2'-0"		
CX018	6	9.0000	.3750	.1345	1'-2"	2'-0"	25'-4 13/16"	879#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	4	A325	1/2"	1 1/2"	1/4"	1	1	49080		
B	10	A325	3/4"	2 1/2"	3/8"	2	3	0097284		
C	8	A325	3/4"	2 1/2"	3/8"	2	2	0097284		
D	14	A325	3/4"	2 1/2"	3/8"	3	4	0097284		

Frame Clearances  
 Horiz. Clearance between members 1(CX017) and 6(CX018): 49'-8"  
 Vert. Clearance at member 1(CX017): 19'-11 9/16"  
 Vert. Clearance at member 6(CX018): 23'-0 11/16"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



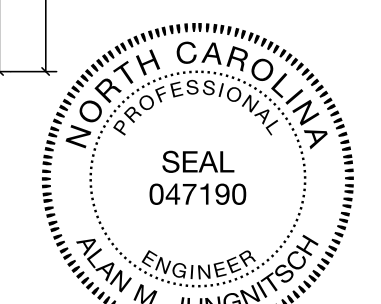
- 15 1'-4" 0.7500:12
- 14 1'-3 1/2"
- 13 9/16"
- 12 3'-8"
- 11 1'-4 7/16"
- 10 2 @ 4'-5 3/8"
- 9 1'-6 1/2"
- 8 1'-6 15/16"
- 7 2'-7 9/16"
- 6 3'-6"
- 5 4'-0"
- 4 10"
- 3 22'-7 1/2"
- 2 26'-2"
- 1 1'-4"

□ Dimension Key

FRAME CROSS SECTION AT FRAME LINE(S) 4



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05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**FOR CONSTRUCTION**

Shape Name = GARAGE BAYS Wall 4, Frame 3

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.

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D				VP Buildings		FRAME CROSS SECTION AT FRAME LINE(S) 4 (a)	
REV	DATE	BY	DESCRIPTION	BUILDER			
				Lemartec Corporation			
				Duke Energy			
				Dunn, North Carolina			
				Duke Energy Dunn Operations Center - Operations			
				23068 - Ops			
				NTS			



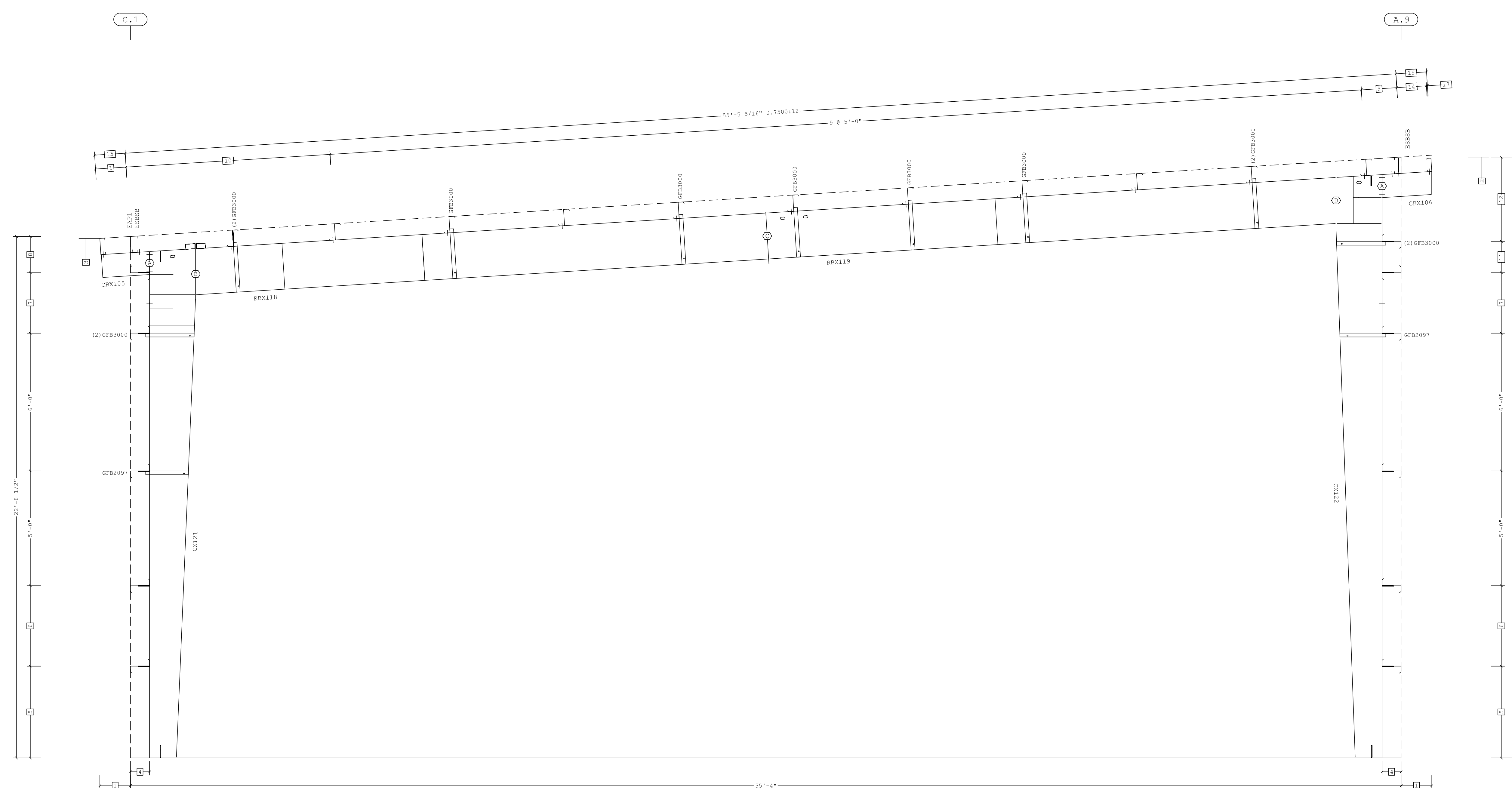
JOBNO 23-016001-02  
 DATE 3/14/2024  
 DRAWN/CHECK CAL WSM  
 PAGE 12

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX105	10001	5.0000	.2500	.1345	1'-0"	1'-0"	2'-2 1/2"	35#
CBX106	10002	5.0000	.2500	.1345	1'-0"	1'-0"	2'-1 1/4"	34#
CX121	1	6.0000	.3125	.1345	1'-2"	1'-11 7/16"	22'-2 1/8"	557#
	2	6.0000	.3125	.1875	1'-11 7/16"	2'-0"		
RBX118	3	6.0000	.3125	.1345	2'-0"	2'-0"	25'-0"	589#
	4	6.0000	.2500	.1345	2'-0"	2'-0"		
RBX119	5	6.0000	.2500	.1345	2'-0"	2'-0"	24'-10 9/16"	590#
	6	6.0000	.2500	.1644	2'-0"	2'-0"		
CX122	7	9.0000	.3750	.1345	1'-2"	2'-0"	25'-4 13/16"	885#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	4	A325	1/2"	1 1/2"	1/4"	1	1	49080		
B	10	A325	3/4"	2 1/2"	3/8"	2	3	0097284		
C	8	A325	3/4"	2 1/2"	3/8"	2	2	0097284		
D	14	A325	3/4"	2 1/2"	3/8"	3	4	0097284		

Frame Clearances  
 Horiz. Clearance between members 1 (CX019) and 7 (CX020): 49'-8 9/16"  
 Horiz. Clearance between members 2 (CX019) and 7 (CX020): 49'-8"  
 Vert. Clearance at member 2 (CX019): 19'-11 9/16"  
 Vert. Clearance at member 7 (CX020): 23'-0 11/16"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 15 1'-4" 0.7500:12
- 14 1'-3 1/2"
- 13 1/2"
- 12 3'-8"
- 11 1'-4 7/16"
- 10 2 @ 4'-5 3/8"
- 9 1'-6 1/2"
- 8 1'-6 15/16"
- 7 2'-7 9/16"
- 6 3'-6"
- 5 4'-0"
- 4 10"
- 3 22'-7 1/2"
- 2 26'-2"
- 1 1'-4"

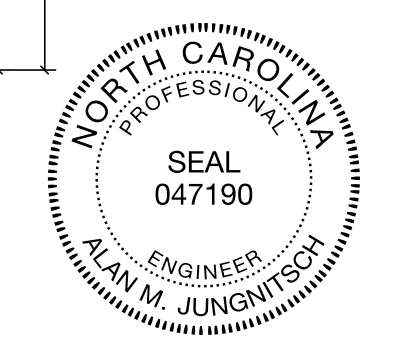
□ Dimension Key

FRAME CROSS SECTION AT FRAME LINE(S) 5

Shape Name = GARAGE BAYS Wall 4, Frame 4



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05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**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.  
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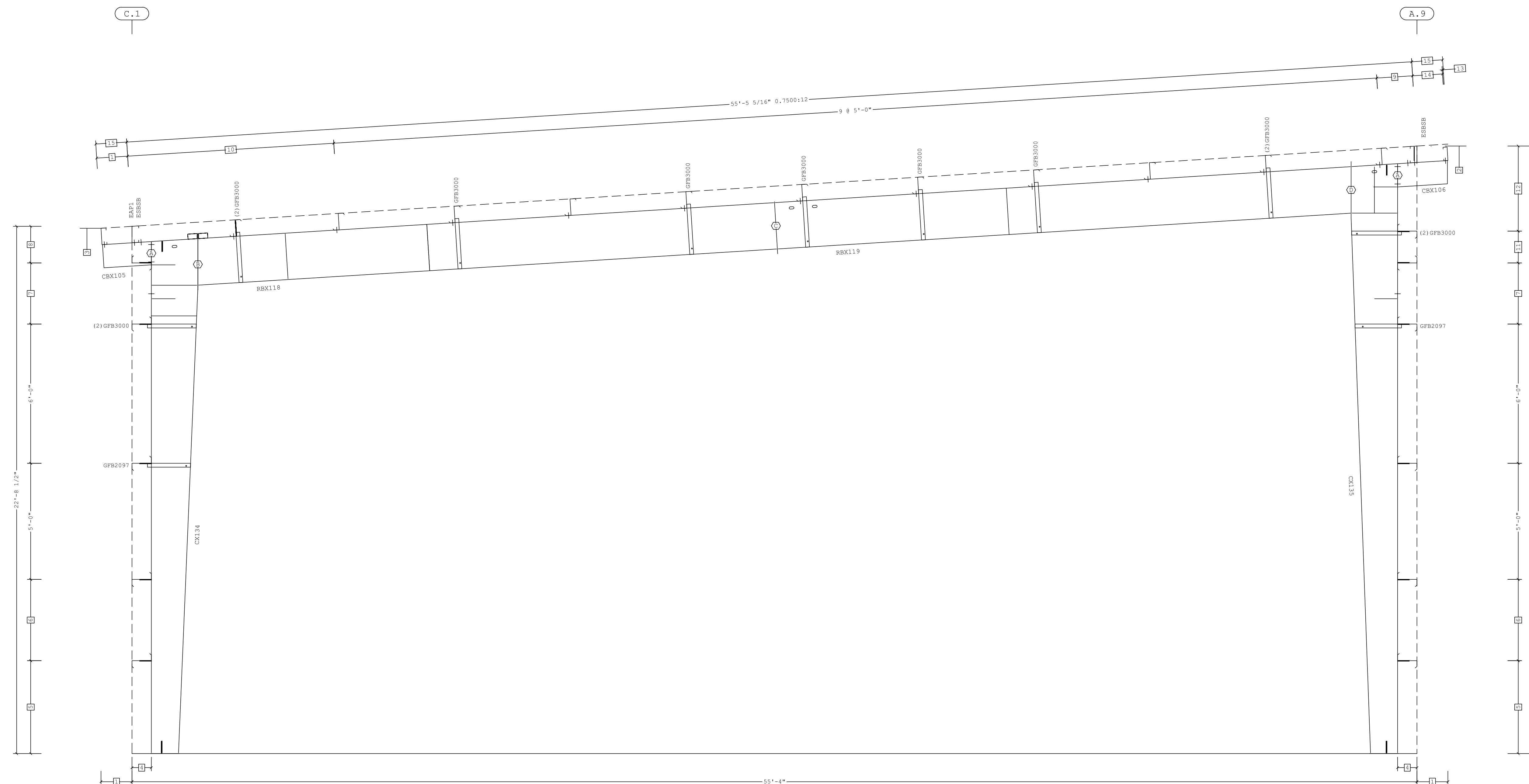
VP Buildings			
REV	DATE	BY	DESCRIPTION
3200 Players Club Circle Memphis TN 38125			
			NTS

FRAME CROSS SECTION AT FRAME LINE(S) 5 (a)	
BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - Operations
BUILDERS PO#	23068 - Ops
BUILDER	VP BUILDINGS WARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1
JOBNO	23-016001-02
DATE	3/14/2024
DRAWN/CHECK	CAL WSM
PAGE	13

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX105	10001	5.0000	.2500	.1345	1'-0"	1'-0"	2'-2 1/2"	35#
CBX106	10002	5.0000	.2500	.1345	1'-0"	1'-0"	2'-1 1/4"	34#
CX134	1	6.0000	.3125	.1345	1'-2"	1'-11 7/16"	22'-2 1/8"	557#
RBX118	3	6.0000	.3125	.1875	1'-11 7/16"	2'-0"	25'-0"	589#
RBX119	4	6.0000	.2500	.1345	2'-0"	2'-0"	24'-10 9/16"	590#
RBX119	5	6.0000	.2500	.1345	2'-0"	2'-0"	24'-10 9/16"	590#
RBX119	6	6.0000	.2500	.1644	2'-0"	2'-0"	24'-10 9/16"	590#
RBX119	7	6.0000	.2500	.1644	2'-0"	2'-0"	24'-10 9/16"	590#
CX135	7	9.0000	.3750	.1345	1'-2"	2'-0"	25'-4 13/16"	890#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	4	A325	1/2"	1 1/2"	1/4"	1	1	49080		
B	10	A325	3/4"	2 1/2"	3/8"	2	3	0097284		
C	8	A325	3/4"	2 1/2"	3/8"	2	2	0097284		
D	14	A325	3/4"	2 1/2"	3/8"	3	4	0097284		

Frame Clearances  
 Horiz. Clearance between members 1 (CX021) and 7 (CX022): 49'-8 9/16"  
 Horiz. Clearance between members 2 (CX021) and 7 (CX022): 49'-8"  
 Vert. Clearance at member 2 (CX021): 19'-11 9/16"  
 Vert. Clearance at member 7 (CX022): 23'-0 11/16"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



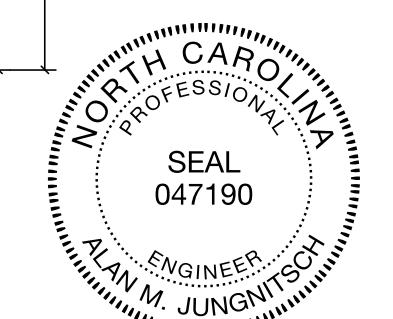
- 15 1'-4" 0.7500:12
- 14 1'-3 1/2"
- 13 9/16"
- 12 3'-8"
- 11 1'-4 7/16"
- 10 2 @ 4'-5 3/8"
- 9 1'-6 1/2"
- 8 1'-6 15/16"
- 7 2'-7 9/16"
- 6 3'-6"
- 5 4'-0"
- 4 10"
- 3 22'-7 1/2"
- 2 26'-2"
- 1 1'-4"

Dimension Key

FRAME CROSS SECTION AT FRAME LINE(S) 6



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 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**FOR CONSTRUCTION**

Shape Name = GARAGE BAYS Wall 4, Frame 5

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.  
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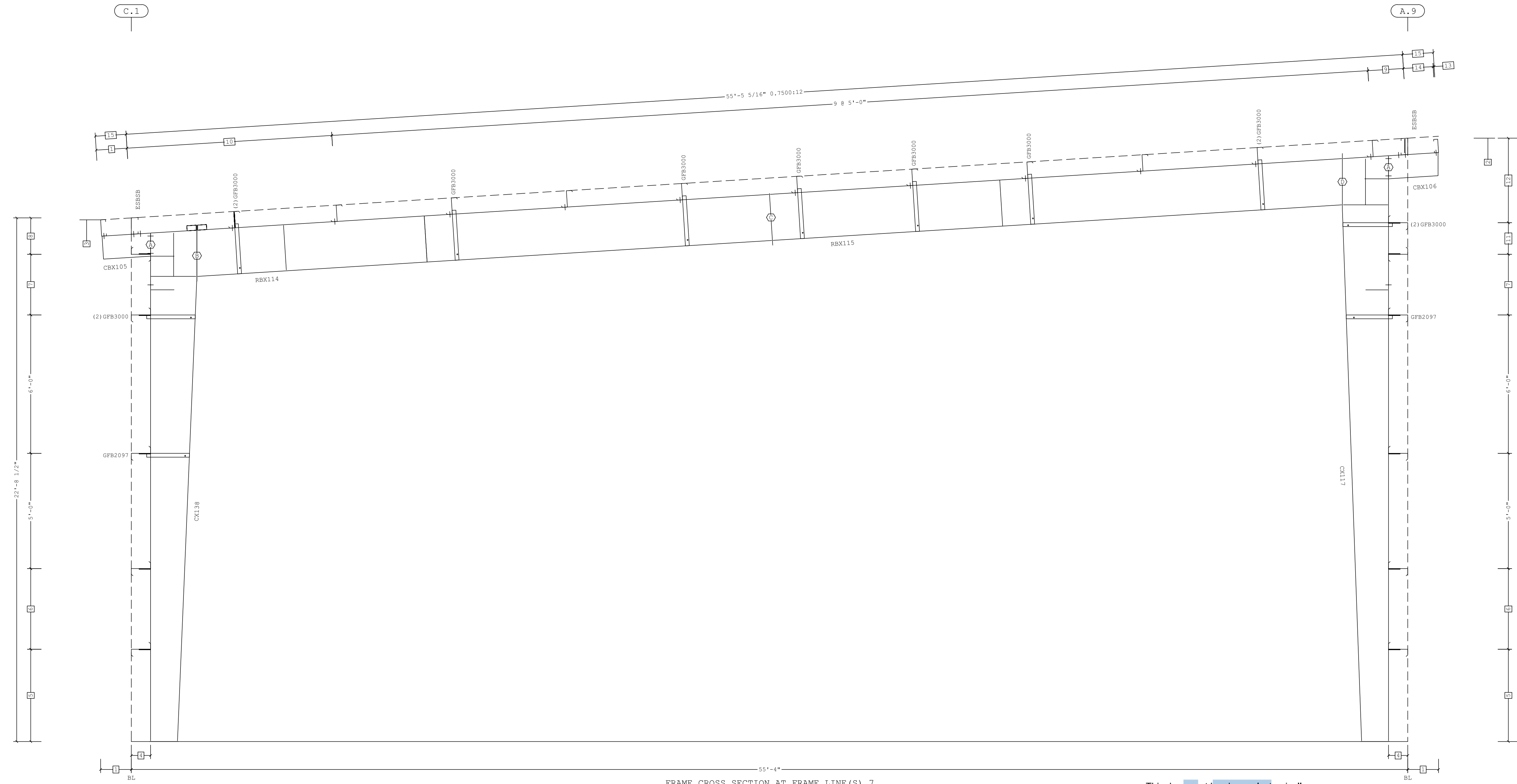
VP Buildings			
REV	DATE	BY	DESCRIPTION
3200 Players Club Circle Memphis TN 38125			
NTS			

FRAME CROSS SECTION AT FRAME LINE(S) 6 (a)		
BUILDER	Lemartec Corporation	
CUSTOMER	Duke Energy	
LOCATION	Dunn, North Carolina	
PROJECT	Duke Energy Dunn Operations Center - Operations	
BUILDERS PO#	23068 - Ops	
BUILDING	VP BUILDINGS	
MANAGER	WARCO PRUDEN	
VP VERSION	24.1.1	
JOBNO	23-016001-02	
DATE	3/14/2024	
DRAWN/CHECK	CAL WSM	
PAGE	14	

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX105	10001	5.0000	.2500	.1345	1'-0"	1'-0"	2'-2 1/2"	35#
CBX106	10002	5.0000	.2500	.1345	1'-0"	1'-0"	2'-1 1/4"	34#
CX138	1	6.0000	.2500	.1644	1'-2"	2'-0"	22'-2 1/16"	525#
RBX114	2	6.0000	.3125	.1345	2'-0"	2'-0"	24'-11 15/16"	589#
	3	6.0000	.2500	.1345	2'-0"	2'-0"		
RBX115	4	6.0000	.2500	.1345	2'-0"	2'-0"	24'-10 9/16"	590#
	5	6.0000	.2500	.1644	2'-0"	2'-0"		
CX117	6	9.0000	.3750	.1345	1'-2"	2'-0"	25'-4 13/16"	879#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo	Rows	
									Out	In
A	4	A325	1/2"	1 1/2"	1/4"	1	1	49080		
B	10	A325	3/4"	2 1/2"	3/8"	2	3	0097284		
C	8	A325	3/4"	2 1/2"	3/8"	2	2	0097284		
D	14	A325	3/4"	2 1/2"	3/8"	3	4	0097284		

Frame Clearances  
 Horiz. Clearance between members 1(CX017) and 6(CX018): 49'-8"  
 Vert. Clearance at member 1(CX017): 19'-11 9/16"  
 Vert. Clearance at member 6(CX018): 23'-0 11/16"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



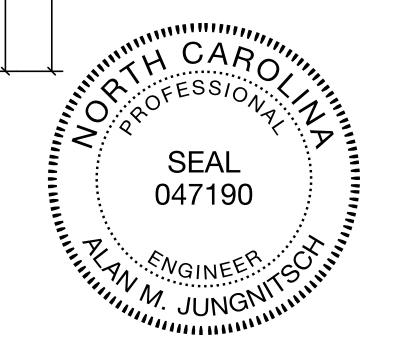
- 15 1'-4" 0.7500:12
- 14 1'-3 1/2"
- 13 1/2"
- 12 3'-8"
- 11 1'-4 7/16"
- 10 2 @ 4'-5 3/8"
- 9 1'-6 1/2"
- 8 1'-6 15/16"
- 7 2'-7 9/16"
- 6 3'-6"
- 5 4'-0"
- 4 10"
- 3 22'-7 1/2"
- 2 26'-2"
- 1 1'-4"

Dimension Key

FRAME CROSS SECTION AT FRAME LINE(S) 7



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05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**FOR CONSTRUCTION**

Shape Name = GARAGE BAYS Wall 4, Frame 6

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

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VP Buildings				FRAME CROSS SECTION AT FRAME LINE(S) 7 (a)	
REV	DATE	BY	DESCRIPTION	BUILDER	OPERATIONS
				Lemartec Corporation	
				Duke Energy	
				Dunn, North Carolina	
				Duke Energy Dunn Operations Center - Operations	
				23068 - Ops	
				NTS	

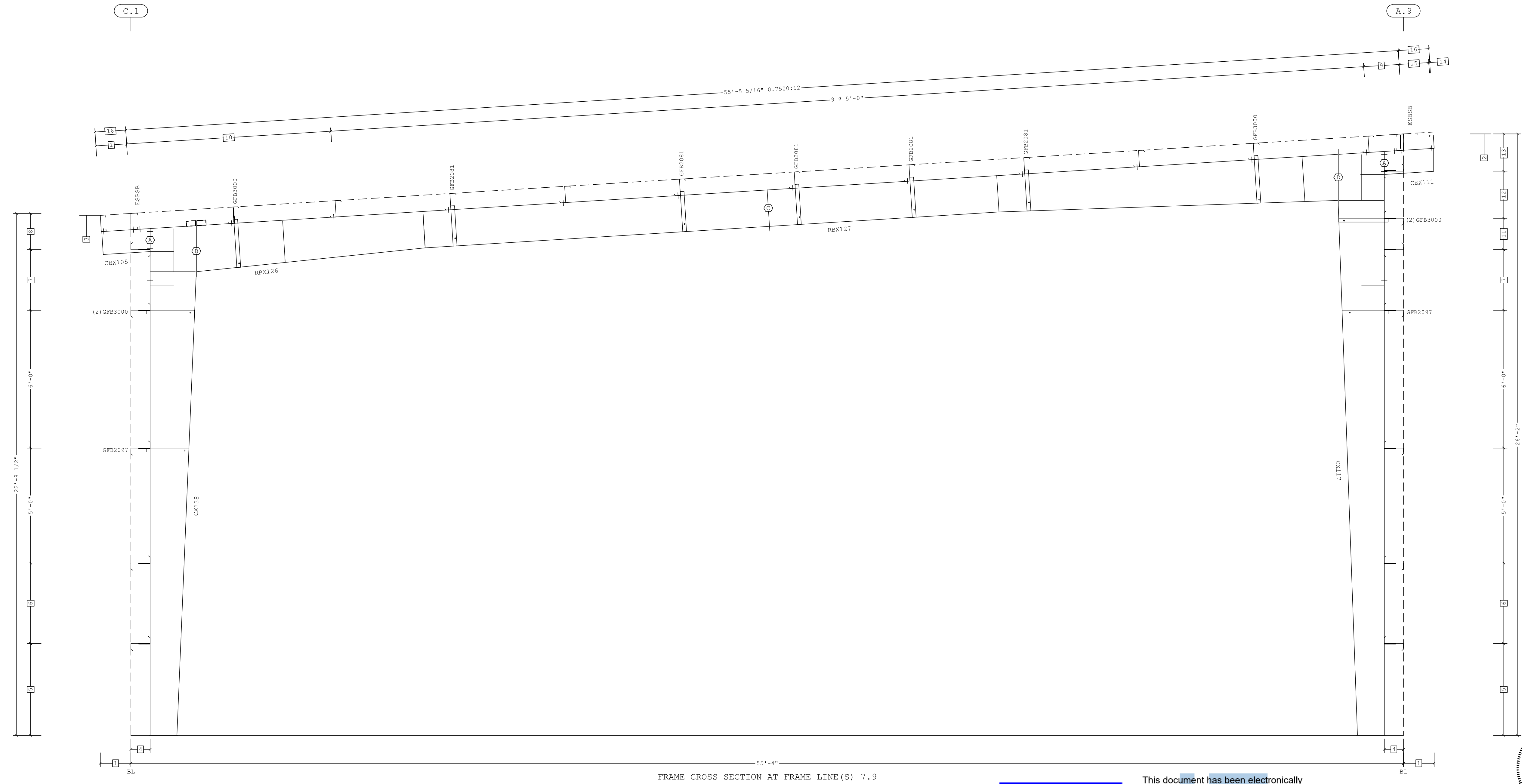


JOBNO	23-016001-02
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DRAWN/CHECK	CAL WSM
PAGE	15

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX105	10001	5.0000	.2500	.1345	1'-0"	1'-0"	2'-2 1/2"	35#
CBX008	10002	5.0000	.2500	.1345	1'-0"	1'-0"	2'-1 1/4"	34#
CX138	1	6.0000	.2500	.1644	1'-2"	2'-0"	22'-2 1/16"	525#
RBX126	2	6.0000	.3125	.1345	2'-0"	1'-7"	24'-11 15/16"	540#
	3	6.0000	.2500	.1345	1'-7"	1'-7"		
RBX127	4	6.0000	.2500	.1345	1'-7"	1'-7"	24'-10 9/16"	514#
	5	6.0000	.2500	.1345	1'-7"	2'-0"		
CX024	6	9.0000	.3750	.1345	1'-2"	2'-0"	25'-4 13/16"	882#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	4	A325	1/2"	1 1/2"	1/4"	1	1	49080		
B	10	A325	3/4"	2 1/2"	3/8"	2	3	0097284		
C	8	A325	3/4"	2 1/2"	3/8"	2	2	0097284		
D	14	A325	3/4"	2 1/2"	3/8"	3	4	0097284		

Frame Clearances  
 Horiz. Clearance between members 1(CX023) and 6(CX024): 49'-8"  
 Vert. Clearance at member 1(CX023): 19'-11 9/16"  
 Vert. Clearance at member 6(CX024): 23'-0 11/16"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 16 1'-4" 0.7500:12
- 15 1'-3 1/2"
- 14 9/16"
- 13 1'-7 7/16"
- 12 2'-0 9/16"
- 11 1'-4 7/16"
- 10 2 @ 4'-5 3/8"
- 9 1'-6 1/2"
- 8 1'-6 15/16"
- 7 2'-7 9/16"
- 6 3'-6"
- 5 4'-0"
- 4 10"
- 3 22'-7 1/2"
- 2 26'-2"
- 1 1'-4"

□ Dimension Key

FRAME CROSS SECTION AT FRAME LINE(S) 7.9



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**FOR CONSTRUCTION**

Shape Name = GARAGE BAYS Wall 4, Frame 7

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.

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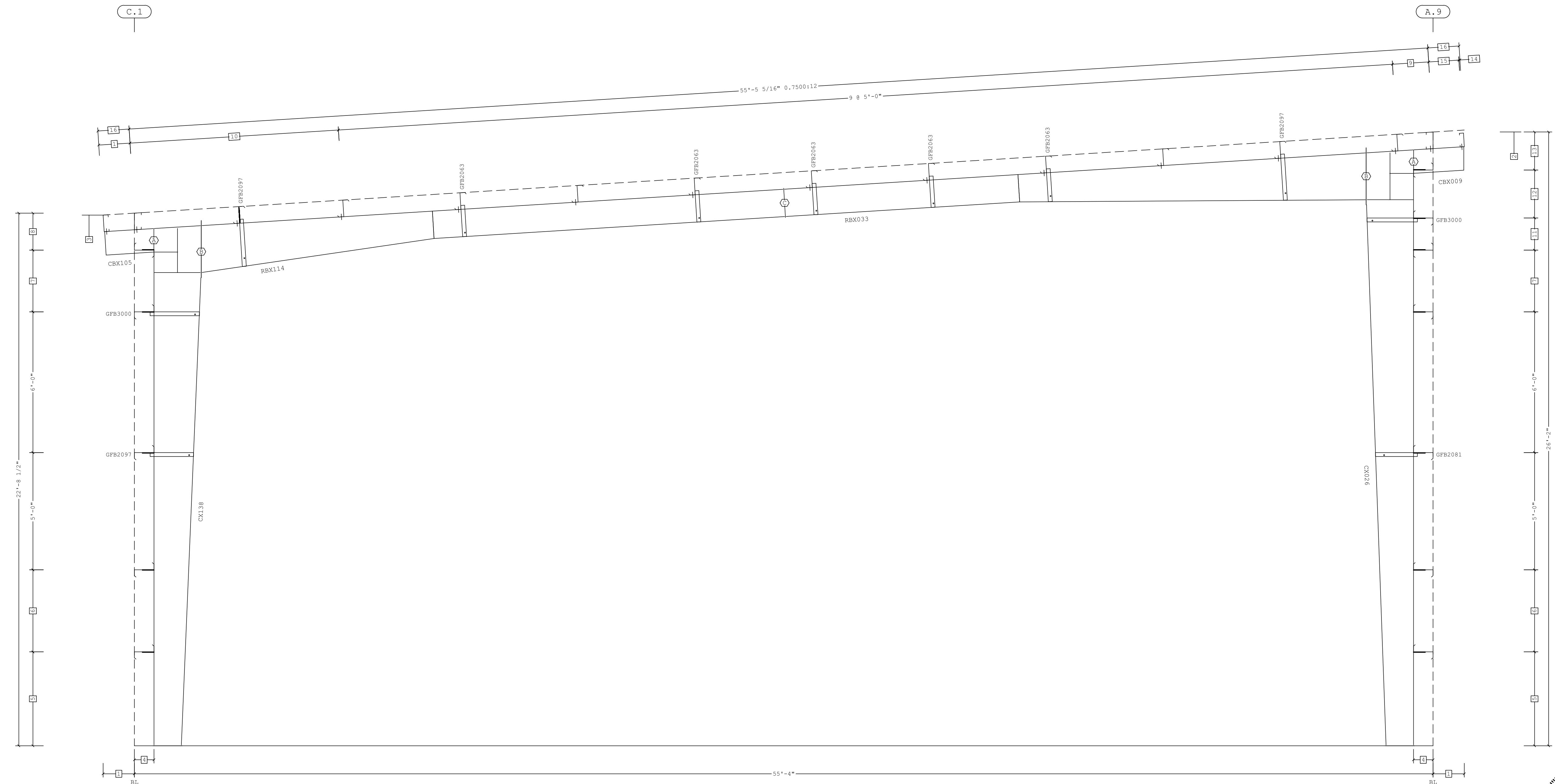
REV	DATE	BY	DESCRIPTION
			VP Buildings 3200 Players Club Circle Memphis TN 38125
			NTS

FRAME CROSS SECTION AT FRAME LINE(S) 7.9 (a)	
BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - Operations
BUILDERS PO#	23068 - Ops
BUILDER	VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1
JOBNO	23-016001-02
DATE	3/14/2024
DRAWN/CHECK	CAL WSM
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Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX105	10001	5.0000	.2500	.1345	1'-0"	1'-0"	2'-2 7/16"	35#
CBX106	10002	5.0000	.2500	.1345	1'-0"	1'-0"	2'-1 3/16"	34#
CX138	1	5.0000	.1875	.1345	1'-2"	2'-0"	22'-2 1/16"	391#
RBX114	2	5.0000	.1875	.1345	1'-2"	1'-2"	24'-11 7/8"	368#
	3	5.0000	.1875	.1345	1'-2"	1'-2"		
RBX115	4	5.0000	.1875	.1345	1'-2"	1'-2"	24'-10 3/8"	374#
	5	5.0000	.1875	.1345	1'-2"	1'-11 15/16"		
CX117	6	5.0000	.1875	.1345	1'-2"	2'-0"	25'-4 7/8"	443#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	4	A325	1/2"	1 1/2"	1/4"	1	1	49080		
B	8	A325	3/4"	2 1/2"	3/8"	2	2	0097284		
C	6	A325	3/4"	2 1/2"	3/8"	1	2	0097284		

Frame Clearances  
 Horiz. Clearance between members 1(CX025) and 6(CX026): 49'-8"  
 Vert. Clearance at member 1(CX025): 19'-11 7/16"  
 Vert. Clearance at member 6(CX026): 23'-0 3/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 16 1'-4" 0.7500:12
- 15 1'-3 1/2"
- 14 9/16"
- 13 1'-7 7/16"
- 12 2'-0 9/16"
- 11 1'-4 7/16"
- 10 2 @ 4'-5 3/8"
- 9 1'-6 1/2"
- 8 1'-6 15/16"
- 7 2'-7 9/16"
- 6 3'-6"
- 5 4'-0"
- 4 10"
- 3 22'-7 1/2"
- 2 26'-2"
- 1 1'-4"

□ Dimension Key

FRAME CROSS SECTION AT FRAME LINE(S) 8.9



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 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

Shape Name = GARAGE BAYS Wall 4, Frame 8

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

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VP Buildings				FRAME CROSS SECTION AT FRAME LINE(S) 8.9			
3200 Players Club Circle Memphis TN 38125				Lemartec Corporation			
REV	DATE	BY	DESCRIPTION	BUILDER	Duke Energy		
				CUSTOMER	Dunn, North Carolina		
				LOCATION	Duke Energy Dunn Operations Center - Operations		
				PROJECT	A BlueScope Steel Company		
				BUILDERS FOR	23068 - Ops		
					VPC VERSION: 24.1.1		



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 DATE 3/14/2024  
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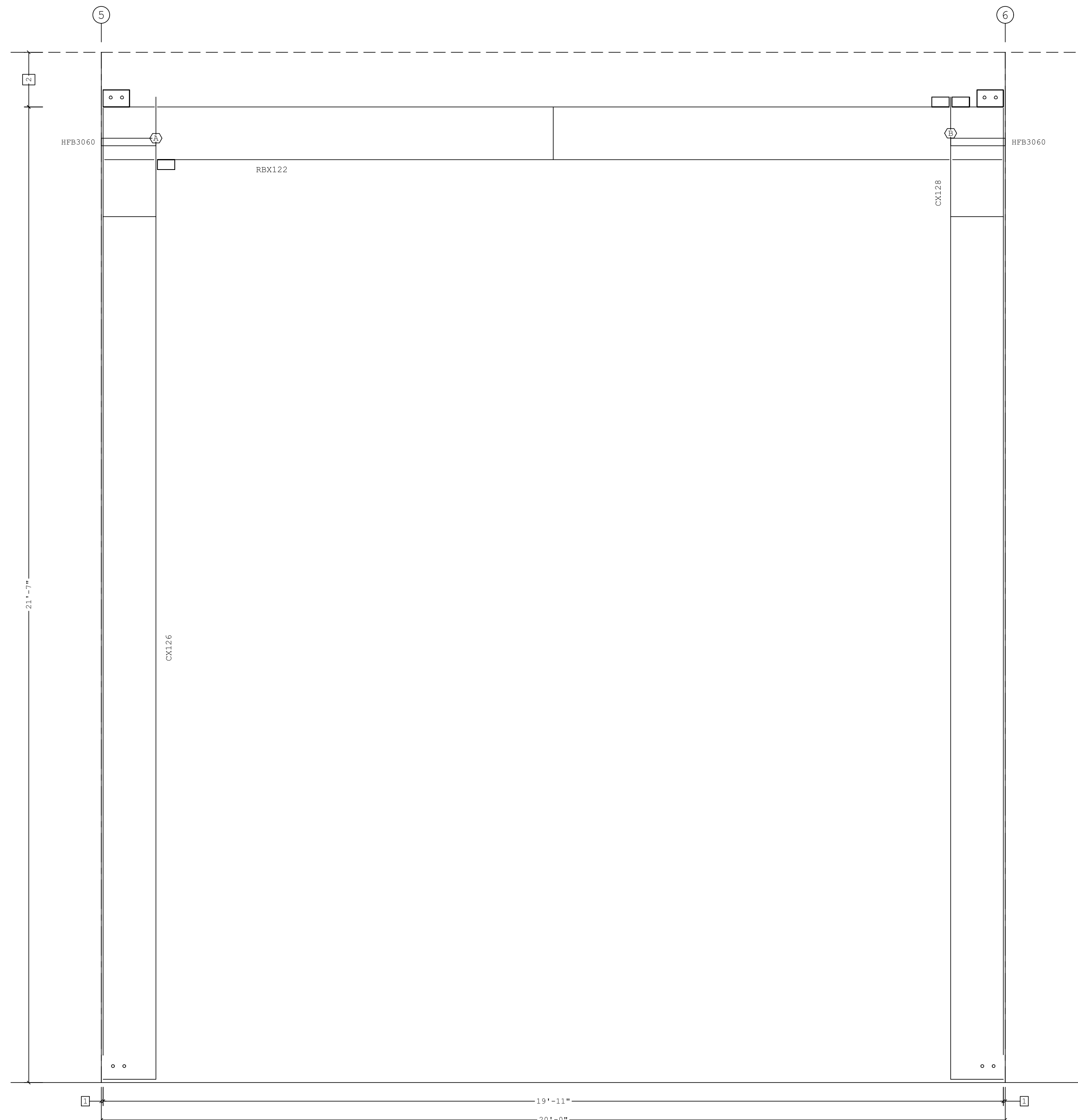
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Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX126	1	9.0000	.3750	.1644	1'-2"	1'-2"	21'-6 1/8"	680#
	2	9.0000	.3750	.2500	1'-2"	1'-2"		
RBX122	3-4	9.0000	.3750	.1644	1'-2"	1'-2"	17'-7"	571#
CX128	5	9.0000	.3750	.2500	1'-2"	1'-2"	21'-6 1/8"	681#
	6	9.0000	.3750	.1644	1'-2"	1'-2"		

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	14	A325	3/4"	2 1/2"	3/8"	3	2	0097284		
B	14	A325	3/4"	2 1/2"	3/8"	2	3	0097284		

Frame Clearances  
 Horiz. Clearance between members 1(CX043) and 5(CX044): 17'-7"  
 Horiz. Clearance between members 1(CX043) and 6(CX044): 17'-7"  
 Horiz. Clearance between members 2(CX043) and 5(CX044): 17'-7"  
 Horiz. Clearance between members 2(CX043) and 6(CX044): 17'-7"  
 Vert. Clearance at member 2(CX043): 20'-2 3/8"  
 Vert. Clearance at member 5(CX044): 20'-2 3/8"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

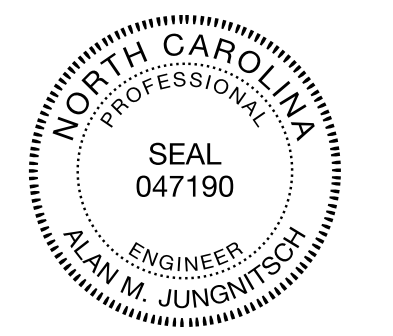
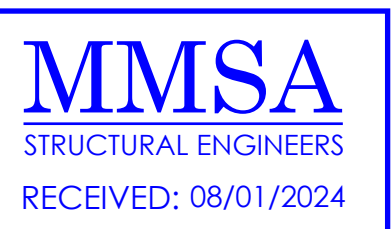


PORTAL FRAME ELEVATION ALONG C.1

- 2 1'-2 1/2"
- 1 1/2"

□ Dimension Key

Shape Name = GARAGE BAYS Wall 4, Frame 4



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 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998


**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.

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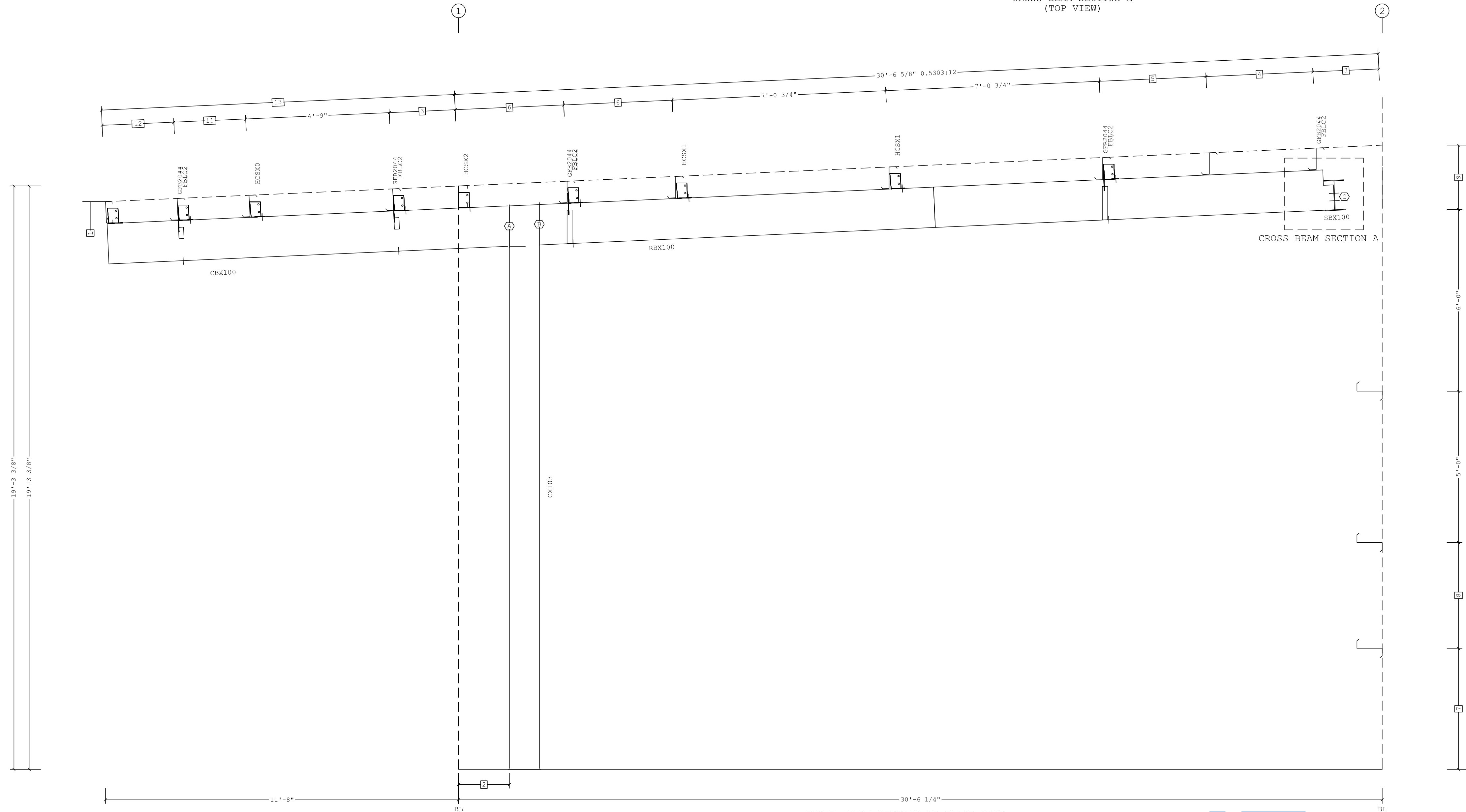
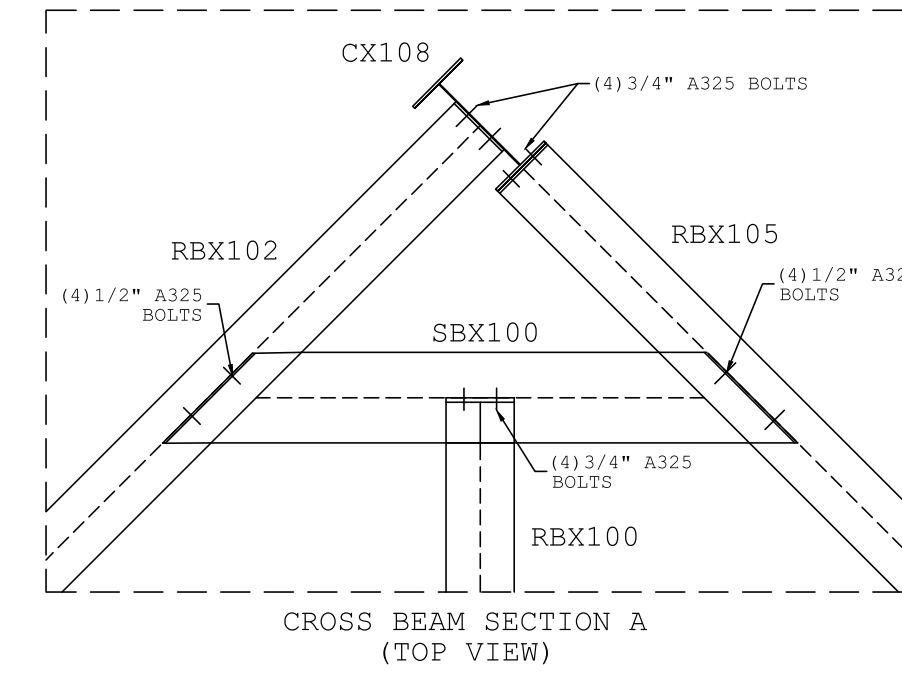
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VP Buildings 3200 Players Club Circle Memphis TN 38125				PORTAL FRAME ELEVATION ALONG C.1			
REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT
				Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center - Operations
NTS				BUILDERS FOR	23068 - Ops		
				JOBNO 23-016001-02 DATE 3/14/2024 DRAWN/CHECK CAL WSM PAGE 18		A BlueScope Steel Company VPC VERSION: 24.1.1 a division of BlueScope Buildings North America, Inc.	

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX100	10001	6.0000	.3125	.1345	1'-4"	1'-4"	13'-3 5/8"	280#
CX103	1	8.0000	.3750	.1644	1'-0"	1'-0"	18'-8"	551#
RBX100	2-3	6.0000	.2500	.1345	1'-4"	1'-4"	27'-6 3/16"	490#
SBX100		8.0000	.2500	.1845	1'-0"	1'-0"	6'-2 1/2"	113#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	5/8"	2	1	0097284		
B	4	A325	3/4"	2 1/2"	3/8"	1	-	0097284		
C	4	A325	3/4"	2 1/2"	5/8"	2	1	0097284		

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



13	11'-8 1/8"	0.5303:12
12	2'-4 7/16"	
11	2'-4 1/2"	
10	2 @ 0'-0"	
9	2'-1 9/16"	
8	3'-6"	
7	4'-0"	
6	3'-7 1/16"	
5	3'-6 5/16"	
4	3'-6 7/16"	
3	2'-2 3/16"	
2	1'-8 1/8"	
1	18'-9 3/16"	

□ Dimension Key

Shape Name = CANOPY 1 Wall 2, Frame 1



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BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**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.

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D				VP Buildings		FRAME CROSS SECTION AT FRAME LINE(S) 1	
REV	DATE	BY	DESCRIPTION	BUILDER			
				Lemartec Corporation			
				Duke Energy			
				Dunn, North Carolina			
				Duke Energy Dunn Operations Center - Operations			
				23068 - Ops			
				NTS			

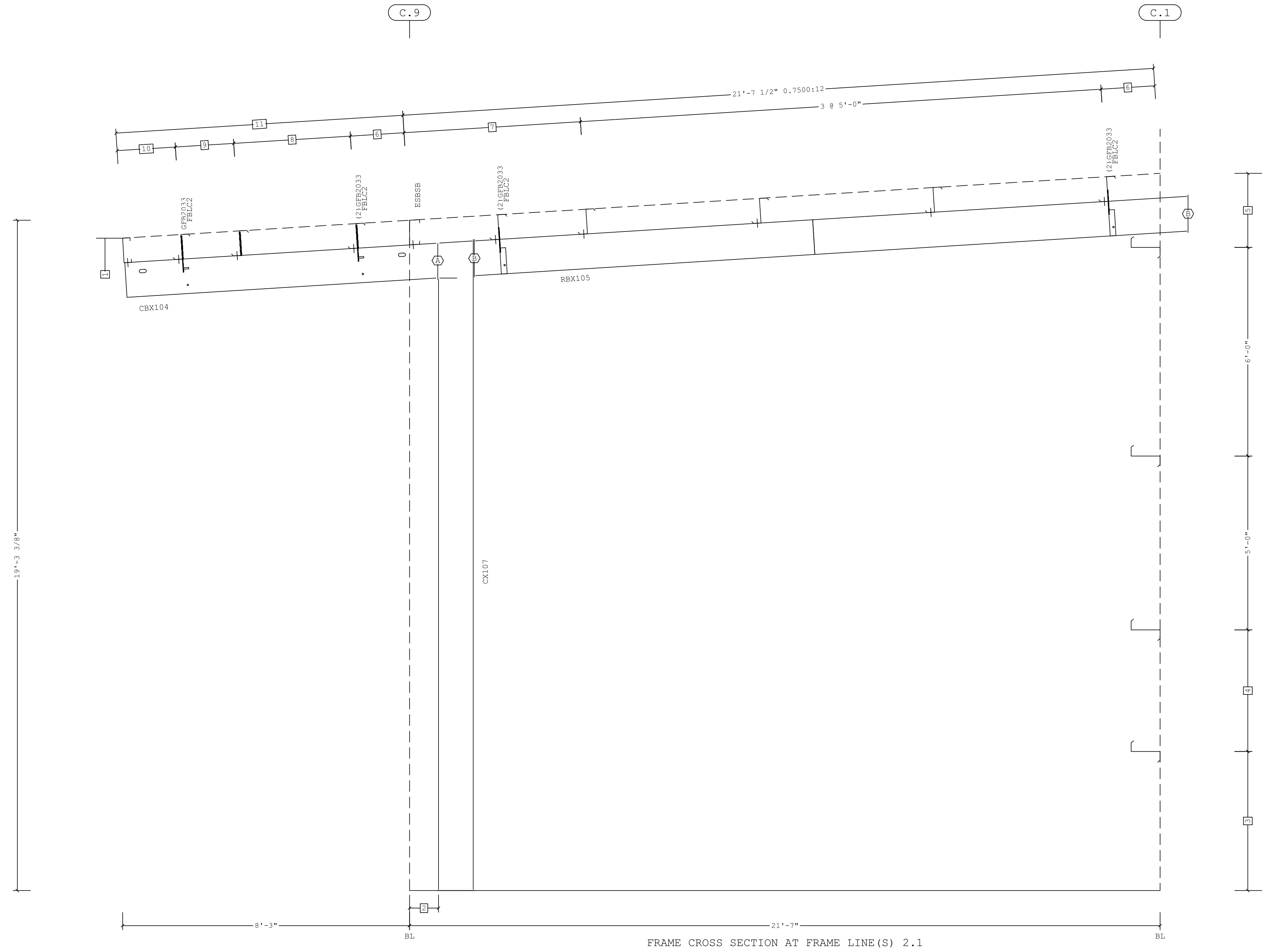


JOBNO 23-016001-02  
DATE 3/14/2024  
DRAWN/CHECK CAL WSM  
PAGE 19

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX104	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 3/16"	162#
CX107	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	433#
RBX105	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	20'-7 7/16"	334#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	5/8"	2	1	0097284		
B	4	A325	3/4"	2 1/2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX028): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 11 8'-3 3/16" 0.7500:12
- 10 1'-8 1/8"
- 9 1'-8 3/16"
- 8 3'-4 5/16"
- 7 2 @ 2'-6 1/2"
- 6 1'-6 1/2"
- 5 2'-1 9/16"
- 4 3'-6"
- 3 4'-0"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

Shape Name = CANOPY 1 Wall 2, Frame 2

FRAME CROSS SECTION AT FRAME LINE(S) 2.1



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 2024.05.28 15:30:57-05'00'

05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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

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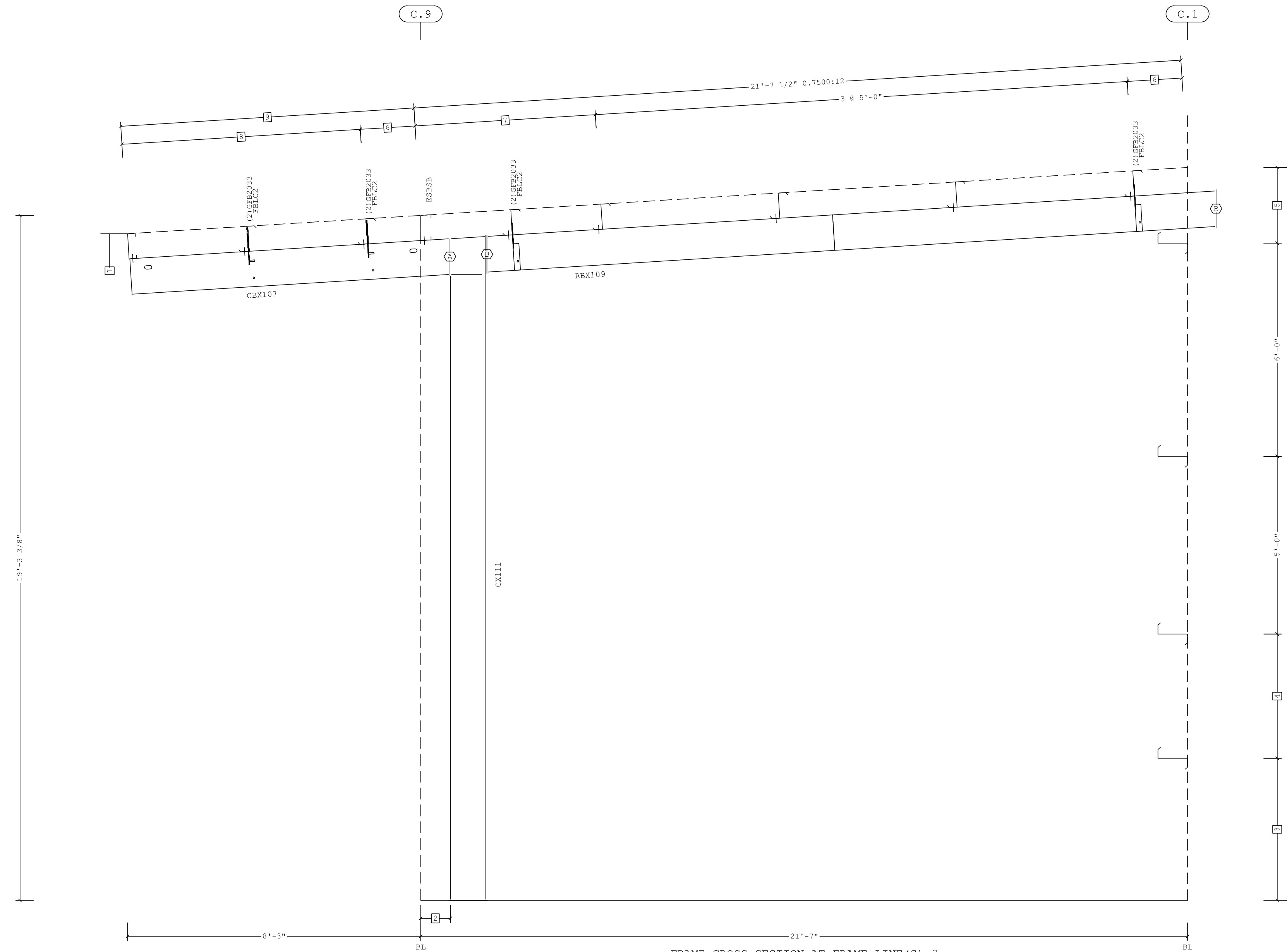
VP Buildings				FRAME CROSS SECTION AT FRAME LINE(S) 2.1 (b)			
3200 Players Club Circle Memphis TN 38125							
REV	DATE	BY	DESCRIPTION	BUILDER			
				Lemartec Corporation			
				Duke Energy			
				Dunn, North Carolina			
				Duke Energy Dunn Operations Center - Operations			
				23068 - Ops			
NTS							
				BUILDERS FOR 23068 - Ops		JOBNO 23-016001-02 DATE 3/14/2024 DRAWN/CHECK CAL WSM PAGE 20	

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX107	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 5/16"	156#
CX111	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	431#
RBX109	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	20'-7 7/16"	334#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	1/2"	2	1	0097284		
B	4	A325	3/4"	2 1/2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX029): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

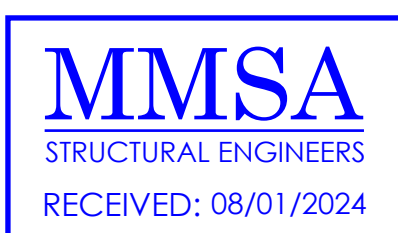


- 9 8'-3 3/16" 0.7500:12
- 8 2 @ 3'-4 5/16"
- 7 2 @ 2'-6 1/2"
- 6 1'-6 1/2"
- 5 2'-1 9/16"
- 4 3'-6"
- 3 4'-0"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

Shape Name = CANOPY 1 Wall 2, Frame 3

FRAME CROSS SECTION AT FRAME LINE(S) 3



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05/28/2024  
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 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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VP Buildings				FRAME CROSS SECTION AT FRAME LINE(S) 3 (b)			
3200 Players Club Circle Memphis TN 38125							
REV	DATE	BY	DESCRIPTION	BUILDER			
				Lemartec Corporation			
				Duke Energy			
				Dunn, North Carolina			
				Duke Energy Dunn Operations Center - Operations			
				23068 - Ops			
NTS							



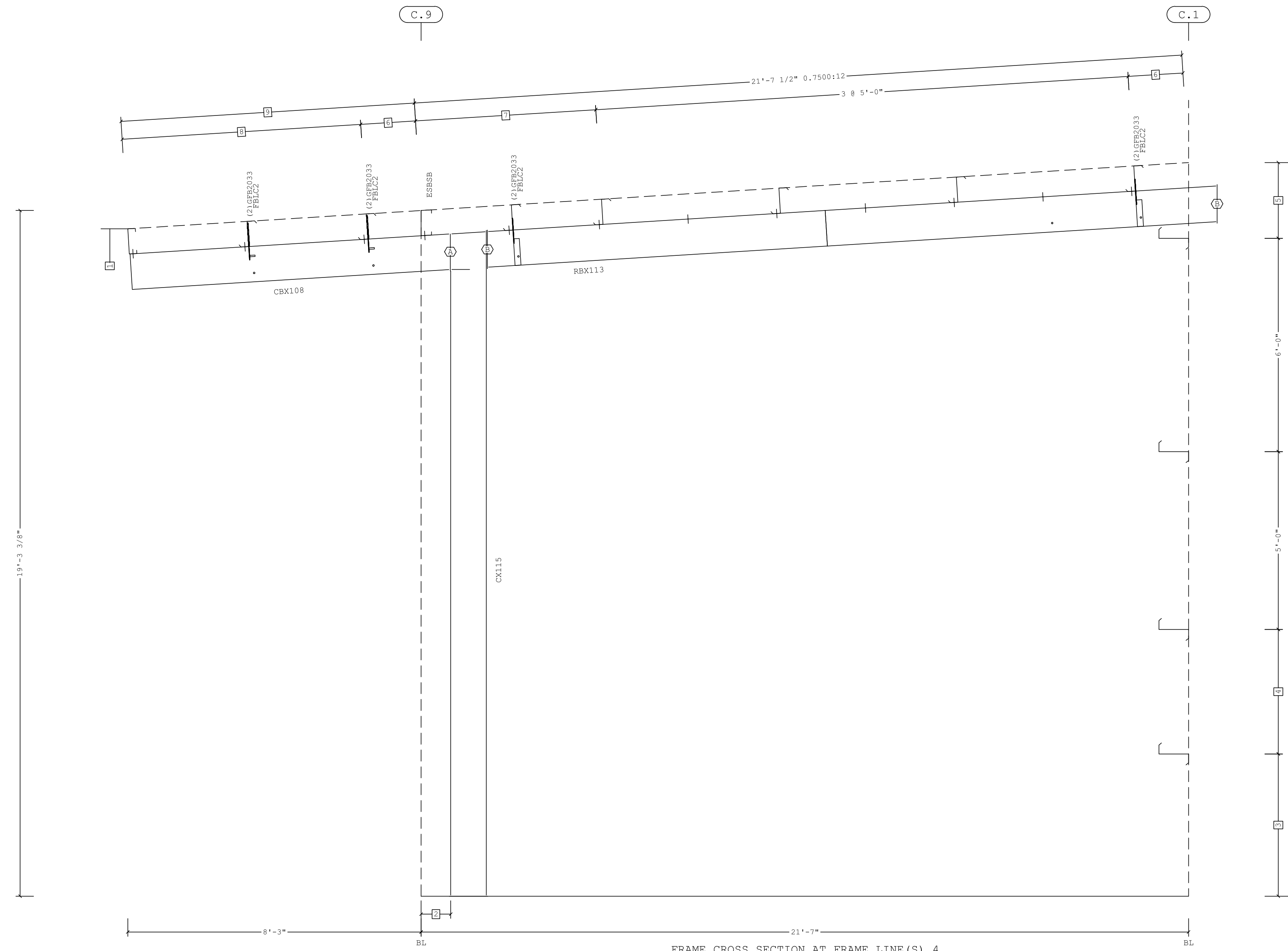
JOBNO 23-016001-02  
 DATE 3/14/2024  
 DRAWN/CHECK CAL WSM  
 PAGE 21

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX108	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 5/16"	156#
CX115	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	429#
RBX113	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	20'-7 7/16"	334#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	1/2"	2	1	0097284		
B	4	A325	3/4"	2 1/2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX030): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 9 8'-3 3/16" 0.7500:12
- 8 2 @ 3'-4 5/16"
- 7 2 @ 2'-6 1/2"
- 6 1'-6 1/2"
- 5 2'-1 9/16"
- 4 3'-6"
- 3 4'-0"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

Shape Name = CANOPY 1 Wall 2, Frame 4

FRAME CROSS SECTION AT FRAME LINE(S) 4



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REV		DATE	BY	DESCRIPTION	BUILDER	VP BUILDINGS	FRAME CROSS SECTION AT FRAME LINE(S) 4 (b)
				VP Buildings	Lemartec Corporation		
				3200 Players Club Circle Memphis TN 38125	Duke Energy		
					Dunn, North Carolina		
					Duke Energy Dunn Operations Center - Operations		
				NTS	23068 - Ops		



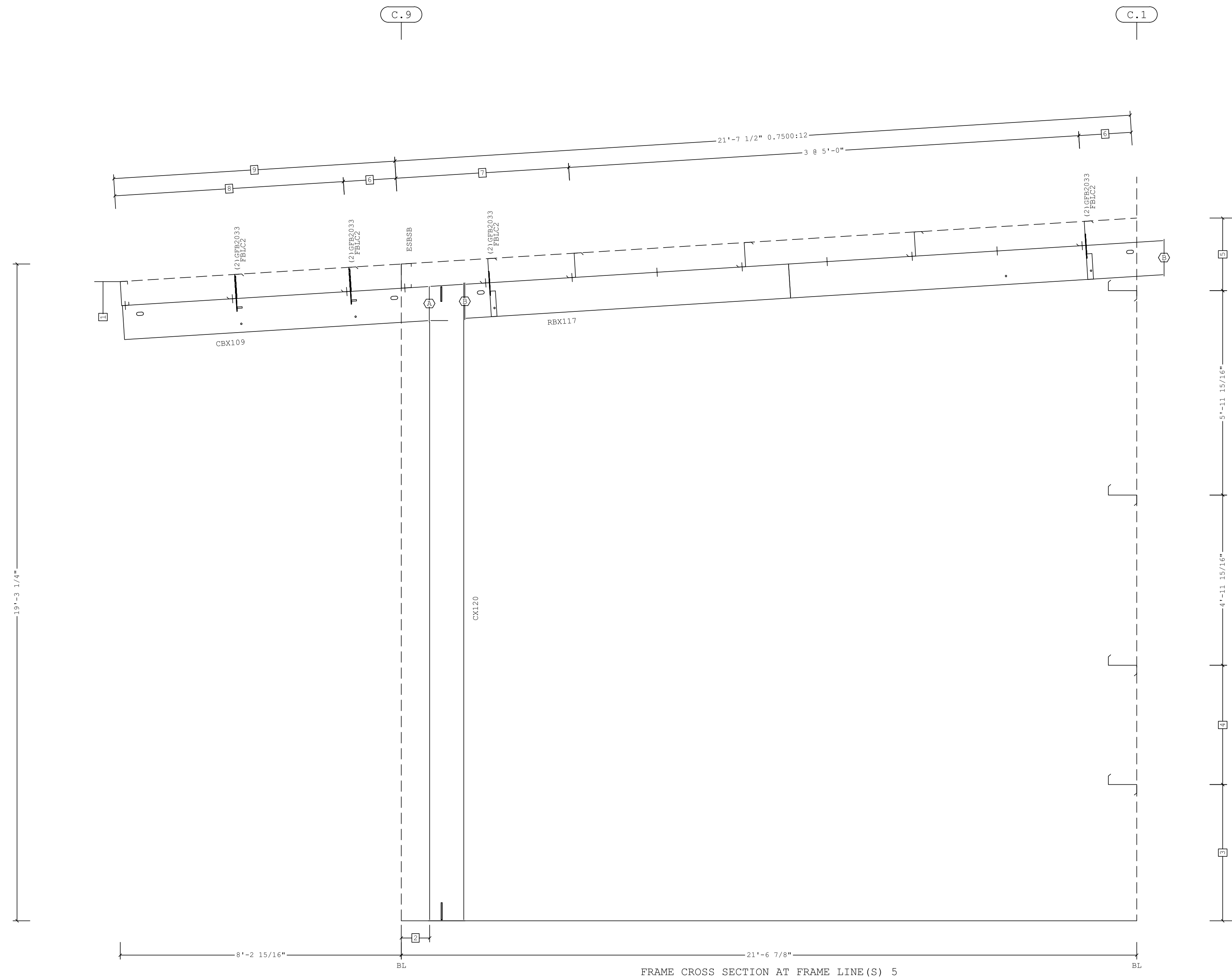
JOBNO	23-016001-02
DATE	3/14/2024
DRAWN/CHECK	CAL WSM
PAGE	22

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX109	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 5/16"	156#
CX120	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	439#
RBX117	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	20'-7 7/16"	334#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	1/2"	2	1	0097284		
B	4	A325	3/4"	2 1/2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX031): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 5

- 9 8'-3 3/16" 0.7500:12
- 8 2 @ 3'-4 5/16"
- 7 2 @ 2'-6 1/2"
- 6 1'-6 1/2"
- 5 2'-1 9/16"
- 4 3'-6"
- 3 4'-0"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

Shape Name = CANOPY 1 Wall 2, Frame 5



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VP Buildings				FRAME CROSS SECTION AT FRAME LINE(S) 5 (b)			
3200 Players Club Circle Memphis TN 38125							
REV	DATE	BY	DESCRIPTION	BUILDER			
				Lemartec Corporation			
				Duke Energy			
				Dunn, North Carolina			
				Duke Energy Dunn Operations Center - Operations			
				23068 - Ops			
NTS							



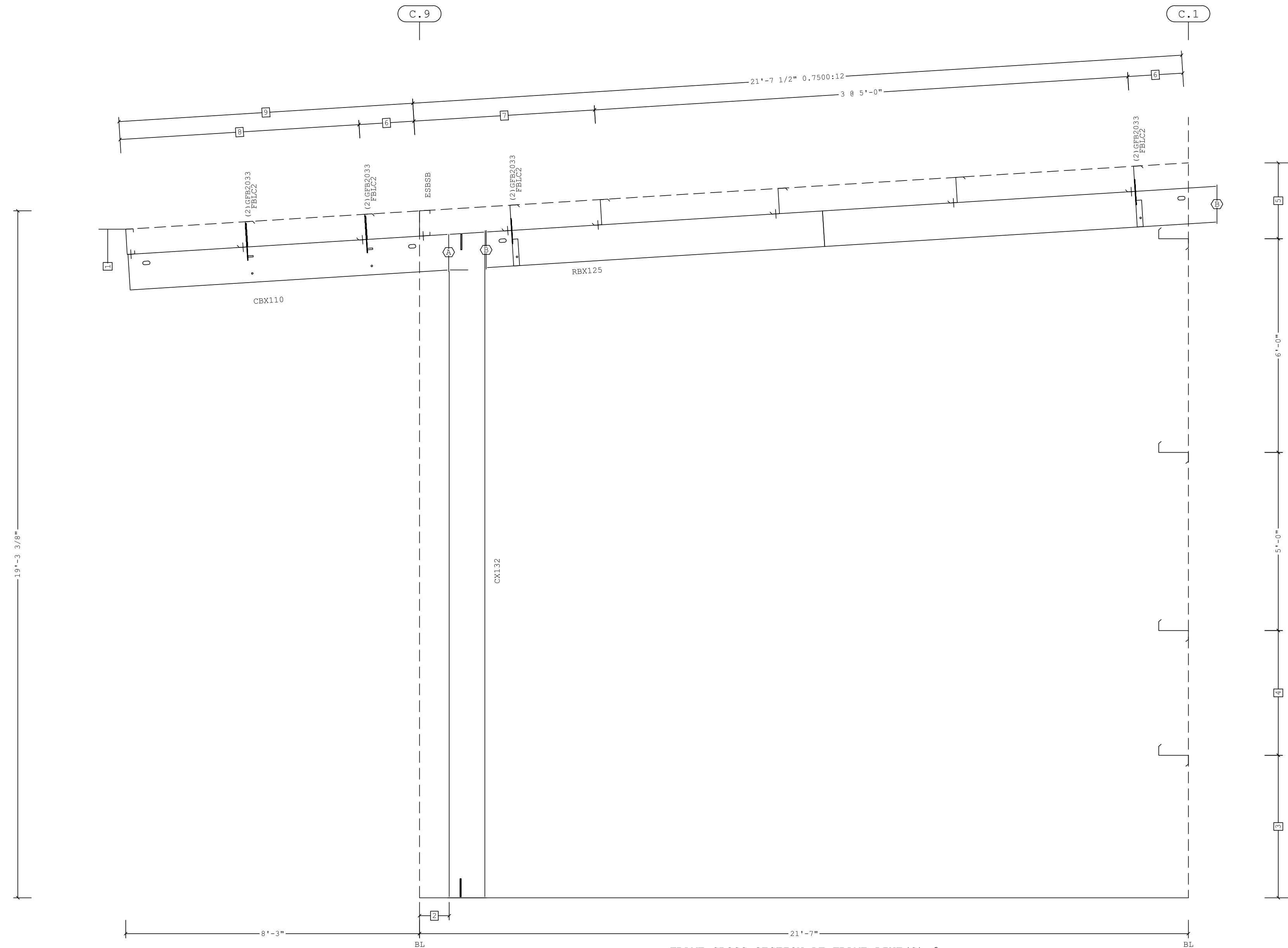
JOBNO	23-016001-02
DATE	3/14/2024
DRAWN/CHECK	CAL WSM
PAGE	23

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX110	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 1/4"	156#
CX132	1	6.0000	.3125	.1644	1'-0"	1'-0"	18'-8 3/16"	394#
RBX125	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	20'-7 3/8"	334#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	1/2"	2	1	0097284		
B	4	A325	3/4"	2 1/2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX032): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 9 8'-3 3/16" 0.7500:12
- 8 2 @ 3'-4 5/16"
- 7 2 @ 2'-6 1/2"
- 6 1'-6 1/2"
- 5 2'-1 9/16"
- 4 3'-6"
- 3 4'-0"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

Shape Name = CANOPY 1 Wall 2, Frame 6

FRAME CROSS SECTION AT FRAME LINE(S) 6



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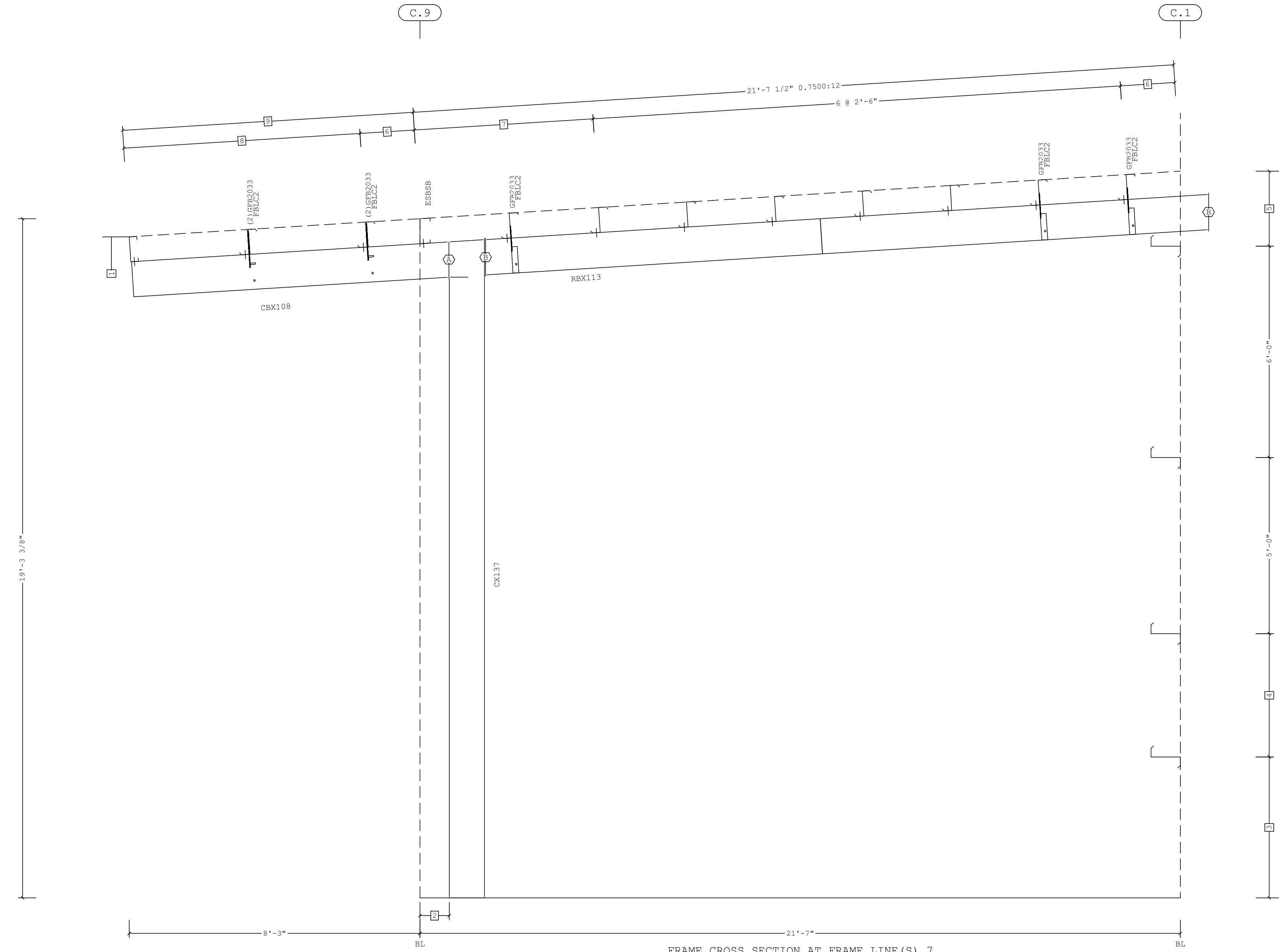
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REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS PO#	
				Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center - Operations	23068 - Ops	
VP Buildings 3200 Players Club Circle Memphis TN 38125				FRAME CROSS SECTION AT FRAME LINE(S) 6 (b)					
NTS									
				JOBNO 23-016001-02		DATE 3/14/2024		DRAWN/CHECK CAL WSM	
				PAGES 24		PAGE 24			

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX108	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 5/16"	156#
CX137	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	429#
RBX113	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	20'-7 7/16"	334#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	1/2"	2	1	0097284		
B	4	A325	3/4"	2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX030): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

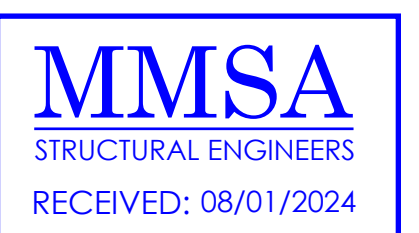


- 9 8'-3 3/16" 0.7500:12
- 8 2 @ 3'-4 5/16"
- 7 2 @ 2'-6 1/2"
- 6 1'-6 1/2"
- 5 2'-1 9/16"
- 4 3'-6"
- 3 4'-0"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

Shape Name = CANOPY 1 Wall 2, Frame 7

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**FOR CONSTRUCTION**

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REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS FOR	JOBNO	DATE	DRAWN/CHECK	CAL	WSPM
VP Buildings 3200 Players Club Circle Memphis TN 38125				Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center - Operations	23068 - Ops	23-016001-02	3/14/2024	CAL	WSPM	
NTS								VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1					

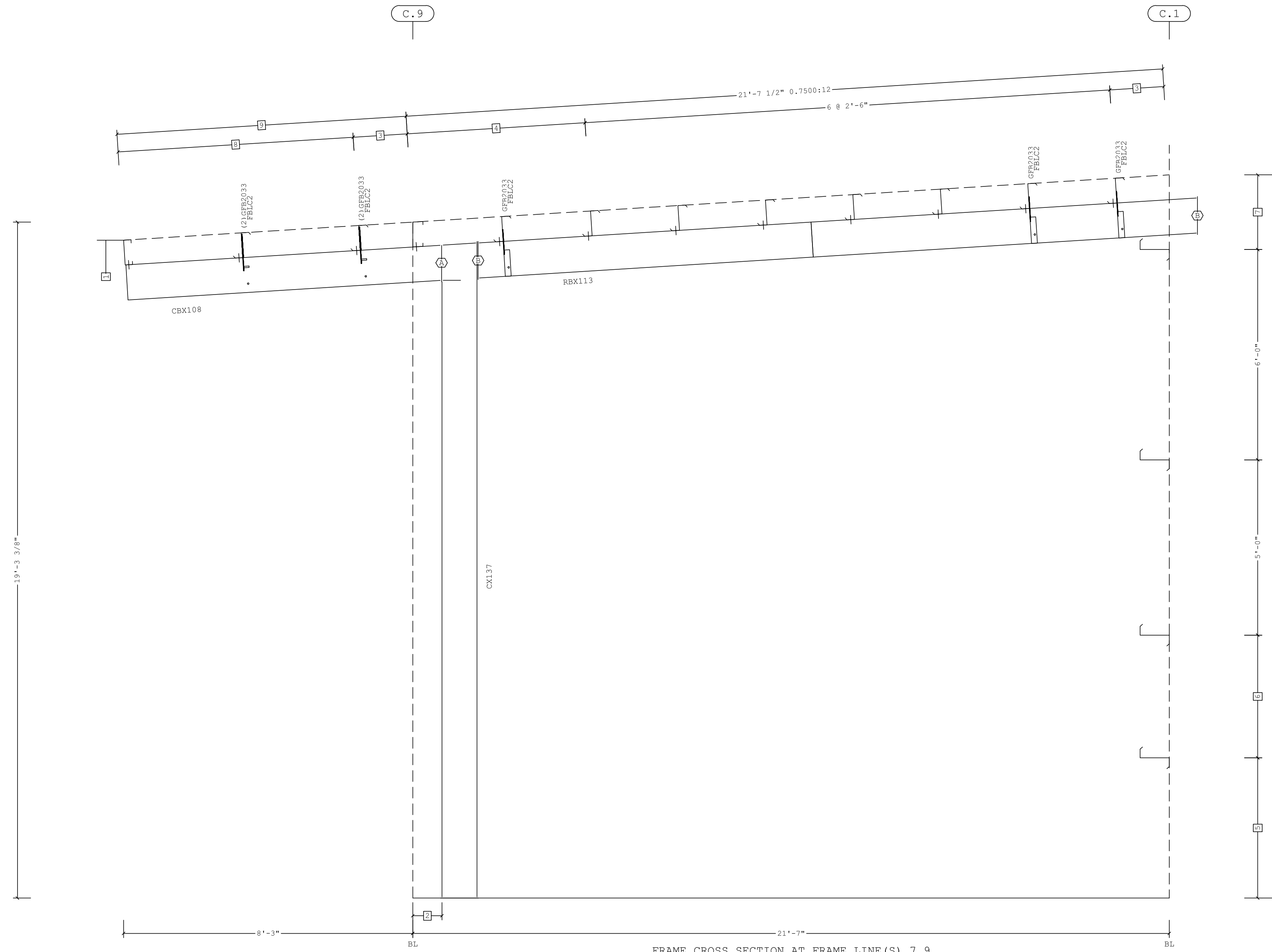
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Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX108	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 5/16"	156#
CX137	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	429#
RBX113	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	20'-7 7/16"	334#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	1/2"	2	1	0097284		
B	4	A325	3/4"	2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX030): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

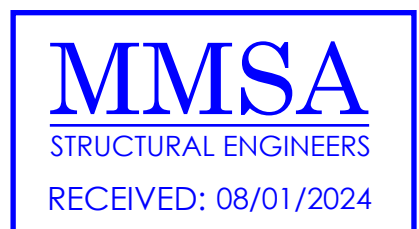


- 9 8'-3 3/16" 0.7500:12
- 8 2 @ 3'-4 5/16"
- 7 2'-1 9/16"
- 6 3'-6"
- 5 4'-0"
- 4 2 @ 2'-6 1/2"
- 3 1'-6 1/2"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

Shape Name = CANOPY 1 Wall 2, Frame 8

FRAME CROSS SECTION AT FRAME LINE(S) 7.9



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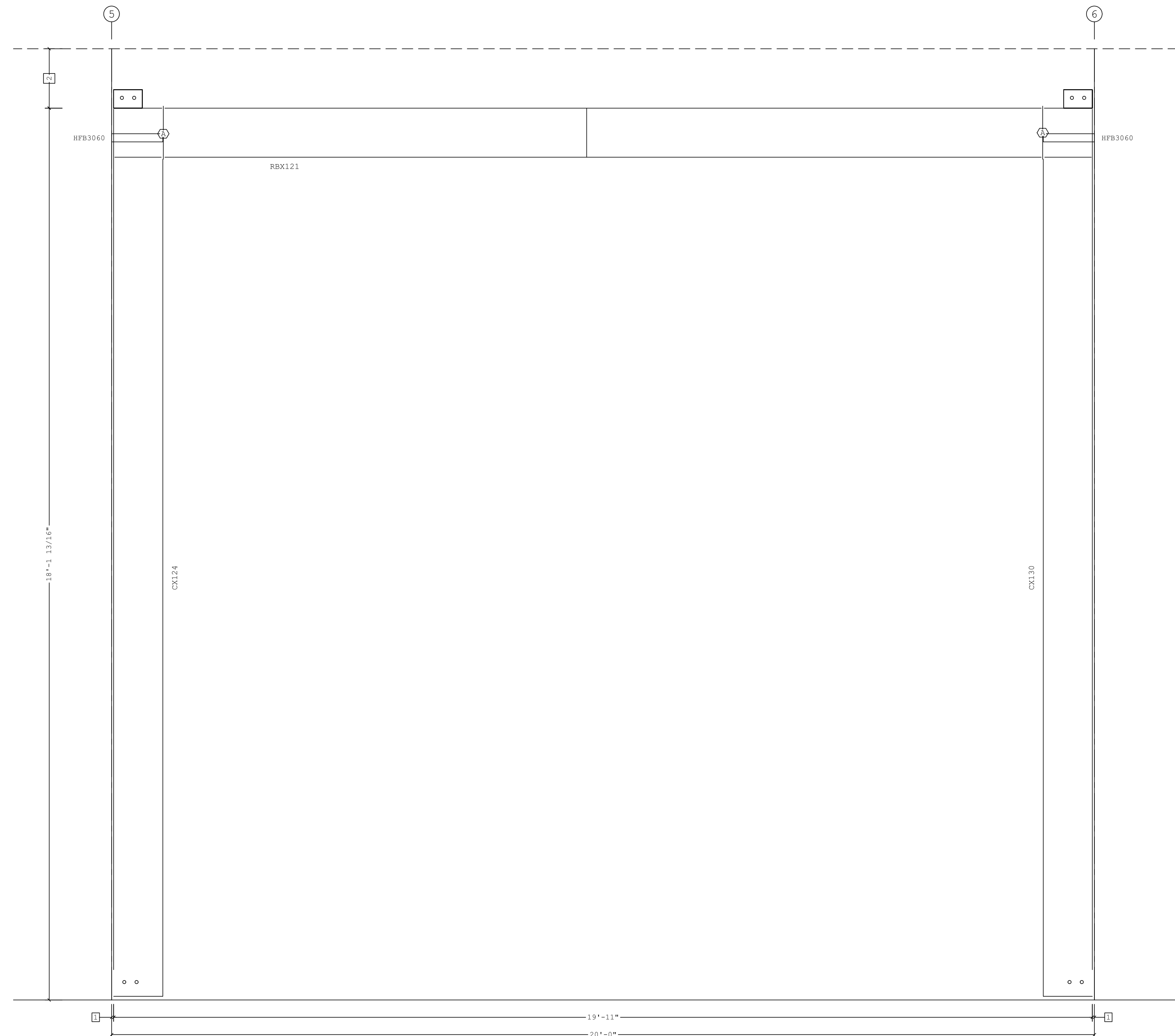
VP Buildings				FRAME CROSS SECTION AT FRAME LINE(S) 7.9 (b)			
3200 Players Club Circle Memphis TN 38125							
REV	DATE	BY	DESCRIPTION	BUILDER			
				Lemartec Corporation			
				Duke Energy			
				Dunn, North Carolina			
				Duke Energy Dunn Operations Center - Operations			
				23068 - Ops			
NTS							
				JOBNO	23-016001-02		
				DATE	3/14/2024		
				DRAWN/CHECK	CAL WSM		
				PAGE	26		

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX124	1	8.0000	.2500	.1644	1'-0"	1'-0"	18'-0 15/16"	377#
RBX121	2-3	6.0000	.2500	.1644	1'-0"	1'-0"	17'-10 3/4"	313#
CX130	4	8.0000	.2500	.1644	1'-0"	1'-0"	18'-0 15/16"	377#

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

Frame Clearances  
 Horiz. Clearance between members 1(CX045) and 4(CX046): 17'-11"  
 Vert. Clearance at member 1(CX045): 17'-1 5/16"  
 Vert. Clearance at member 4(CX046): 17'-1 5/16"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

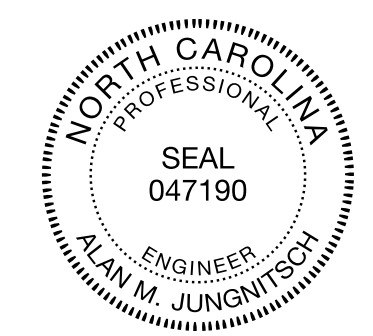


PORTAL FRAME ELEVATION ALONG C.9

- 2 1'-2 1/2"
- 1 1/2"

□ Dimension Key

Shape Name = CANOPY 1 Wall 2, Frame 5



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05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998


**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.

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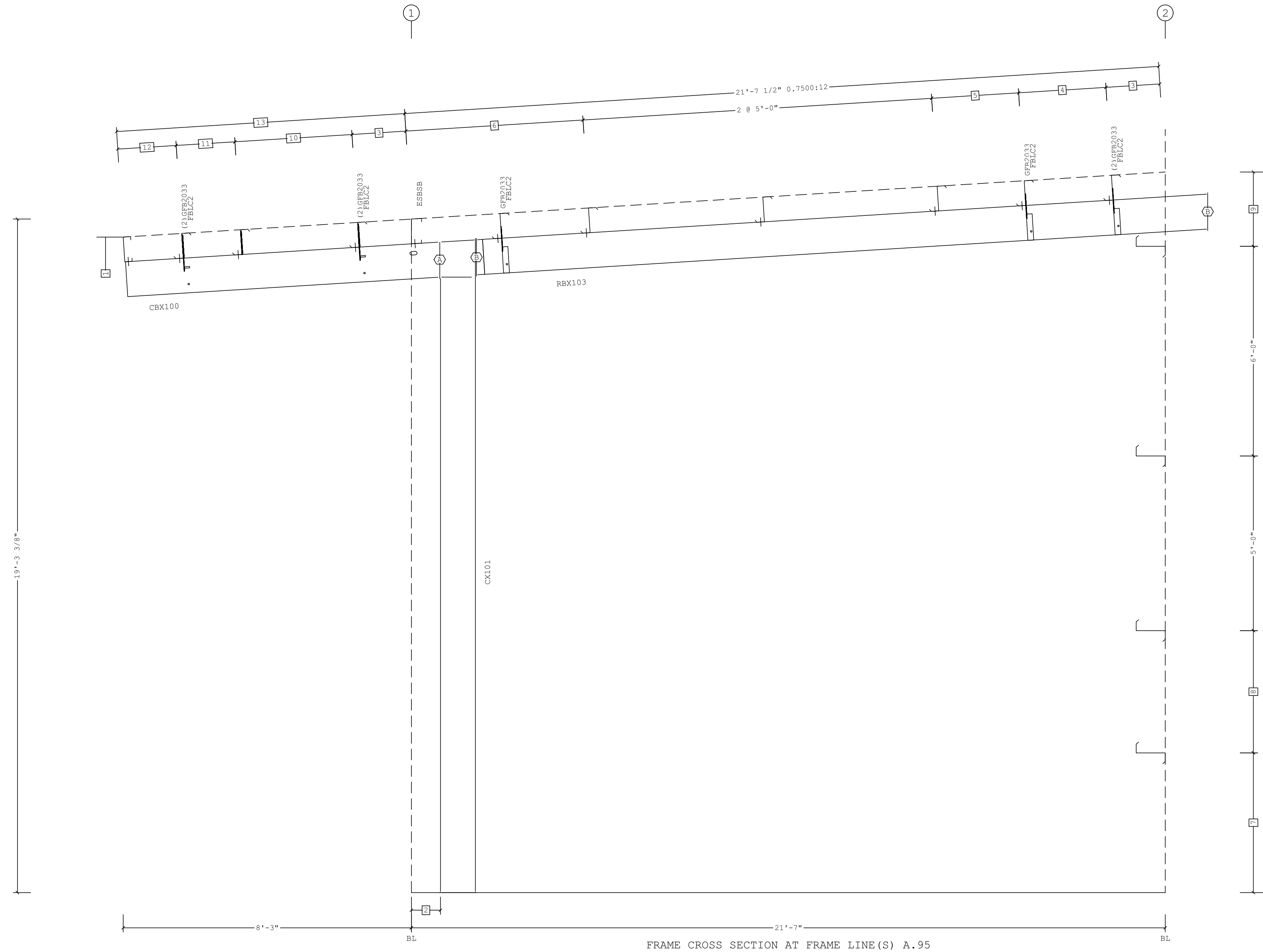
VP Buildings				PORTAL FRAME ELEVATION ALONG C.9			
3200 Players Club Circle Memphis TN 38125							
REV	DATE	BY	DESCRIPTION	BUILDER			
				Lemartec Corporation			
				Duke Energy			
				Dunn, North Carolina			
				Duke Energy Dunn Operations Center - Operations			
				23068 - Ops			
NTS							
				BUILDERS FOR 23068 - Ops		JOBNO 23-016001-02 DATE 3/14/2024 DRAWN/CHECK CAL WSM PAGE 27	

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX100	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 3/16"	162#
CX101	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	435#
RBX103	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	21'-0 3/8"	340#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	5/8"	2	1	0097284		
B	4	A325	3/4"	2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX033): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 13 8'-3 3/16" 0.7500:12
- 12 1'-8 1/8"
- 11 1'-8 3/16"
- 10 3'-4 5/16"
- 9 2'-1 9/16"
- 8 3'-6"
- 7 4'-0"
- 6 2 @ 2'-6 1/2"
- 5 2'-6"
- 4 2'-6 1/16"
- 3 1'-6 1/2"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

Shape Name = CANOPY 2 Wall 2, Frame 1

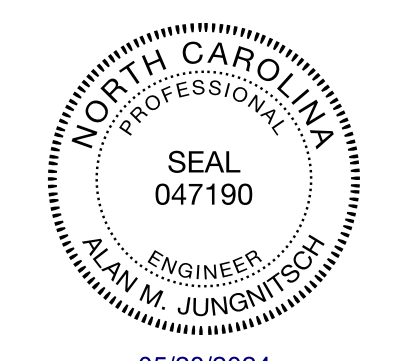
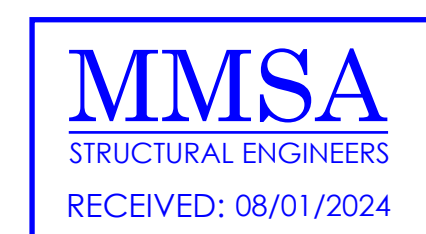
1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.  
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REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS FOR	JOBNO	DATE	DRAWN/CHECK	CAL	WSP	PAGE	
VP Buildings 3200 Players Club Circle Memphis TN 38125				Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center - Operations	23068 - Ops	23-016001-02	3/14/2024	WSP	WSP	28		
NTS				VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1		VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1		VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1		VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1		VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1		VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1	



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 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

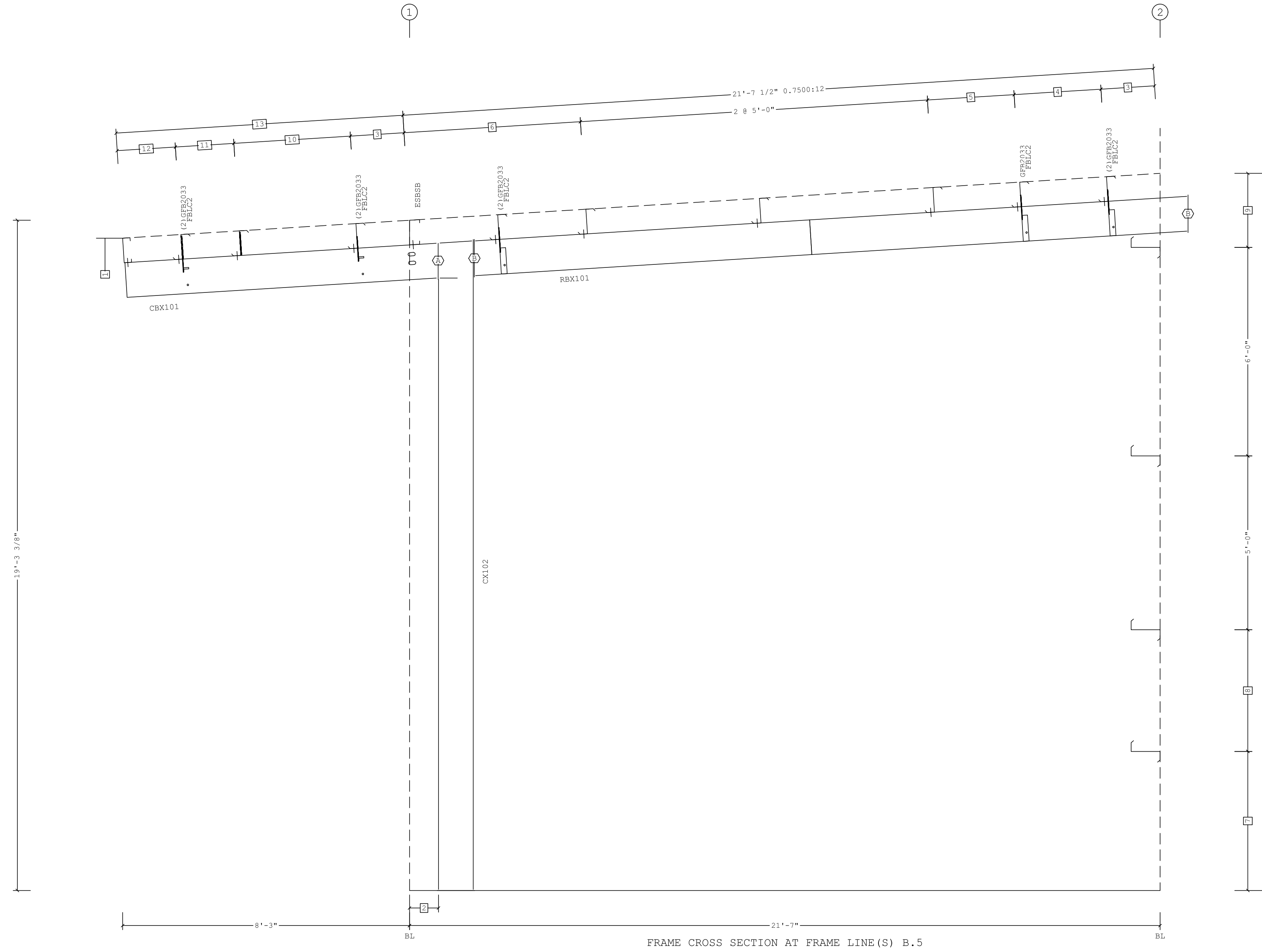
FOR CONSTRUCTION

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX101	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 5/16"	159#
CX102	1	6.0000	.5000	.1644	1'-0"	1'-0"	18'-8 3/16"	524#
RBX101	2-3	6.0000	.3750	.1345	1'-0"	1'-0"	20'-7 7/16"	436#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	5/8"	2	1	0097284		
B	4	A325	3/4"	2 1/2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX034): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

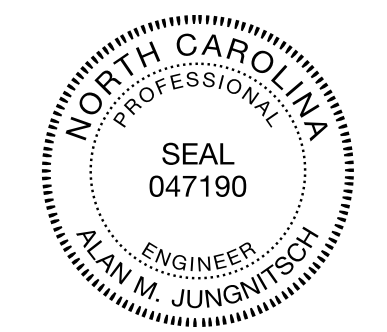
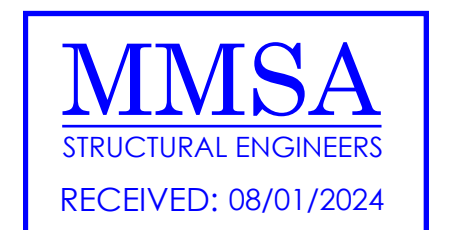


- 13 8'-3 3/16" 0.7500:12
- 12 1'-8 1/8"
- 11 1'-8 3/16"
- 10 3'-4 5/16"
- 9 2'-1 9/16"
- 8 3'-6"
- 7 4'-0"
- 6 2 @ 2'-6 1/2"
- 5 2'-6"
- 4 2'-6 1/16"
- 3 1'-6 1/2"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

Shape Name = CANOPY 2 Wall 2, Frame 2

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**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.  
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VP Buildings				FRAME CROSS SECTION AT FRAME LINE(S) B.5			
3200 Players Club Circle Memphis TN 38125							
REV	DATE	BY	DESCRIPTION	BUILDER			
				Lemartec Corporation			
				Duke Energy			
				Dunn, North Carolina			
				Duke Energy Dunn Operations Center - Operations			
				23068 - Ops			
NTS							



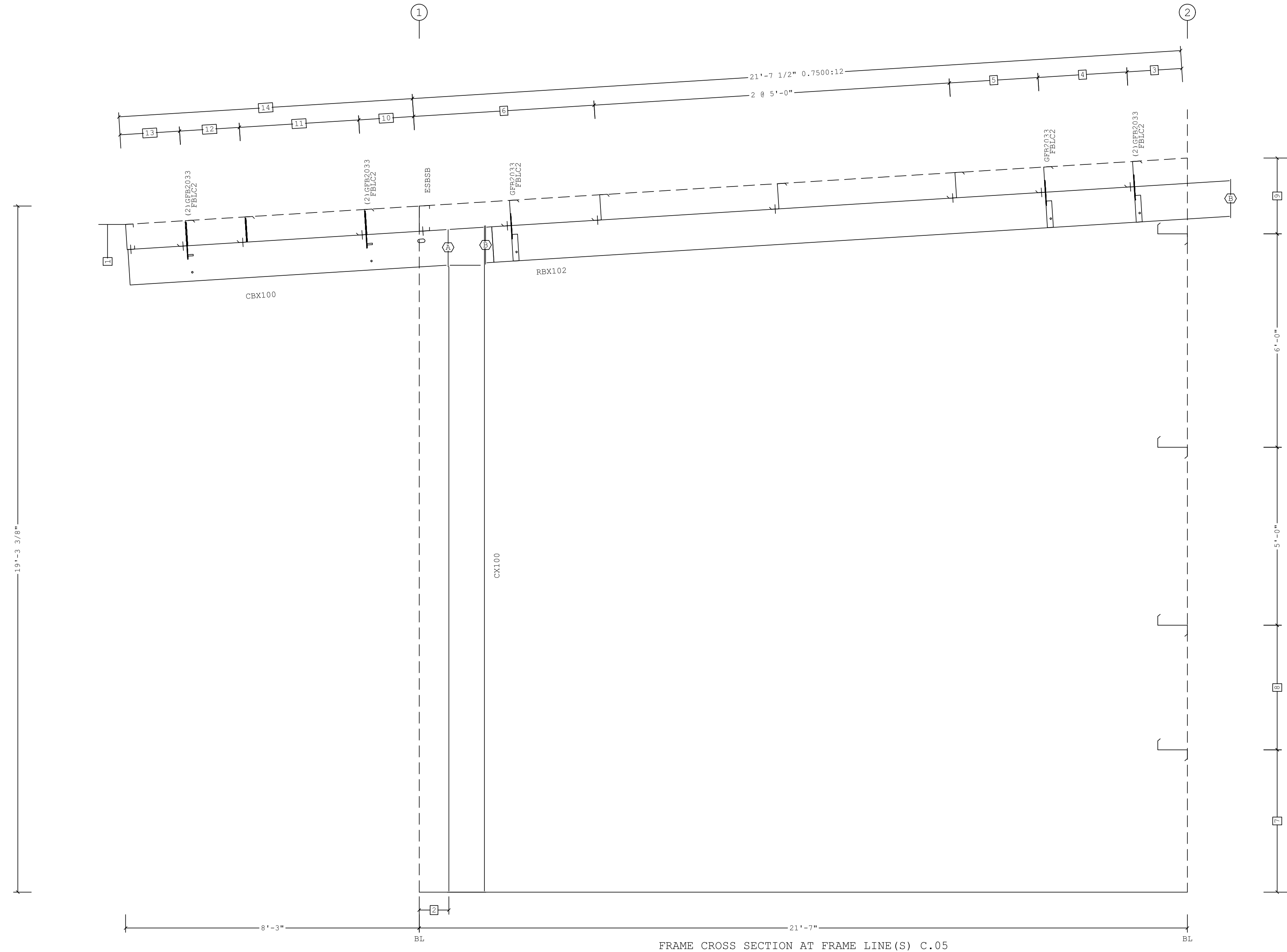
JOBNO 23-016001-02  
 DATE 3/14/2024  
 DRAWN/CHECK CAL WSM  
 PAGE 29

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX100	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 3/16"	162#
CX100	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	435#
RBX100	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	21'-0 3/8"	340#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	5/8"	2	1	0097284		
B	4	A325	3/4"	2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX033): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

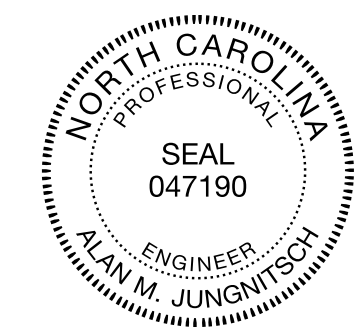


- 14 8'-3 3/16" 0.7500:12
- 13 1'-8 1/8"
- 12 1'-8 3/16"
- 11 3'-4 5/16"
- 10 1'-6 9/16"
- 9 2'-1 9/16"
- 8 3'-6"
- 7 4'-0"
- 6 2 @ 2'-6 1/2"
- 5 2'-6"
- 4 2'-6 1/16"
- 3 1'-6 1/2"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

Shape Name = CANOPY 2 Wall 2, Frame 3

FRAME CROSS SECTION AT FRAME LINE(S) C.05



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05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**FOR CONSTRUCTION**

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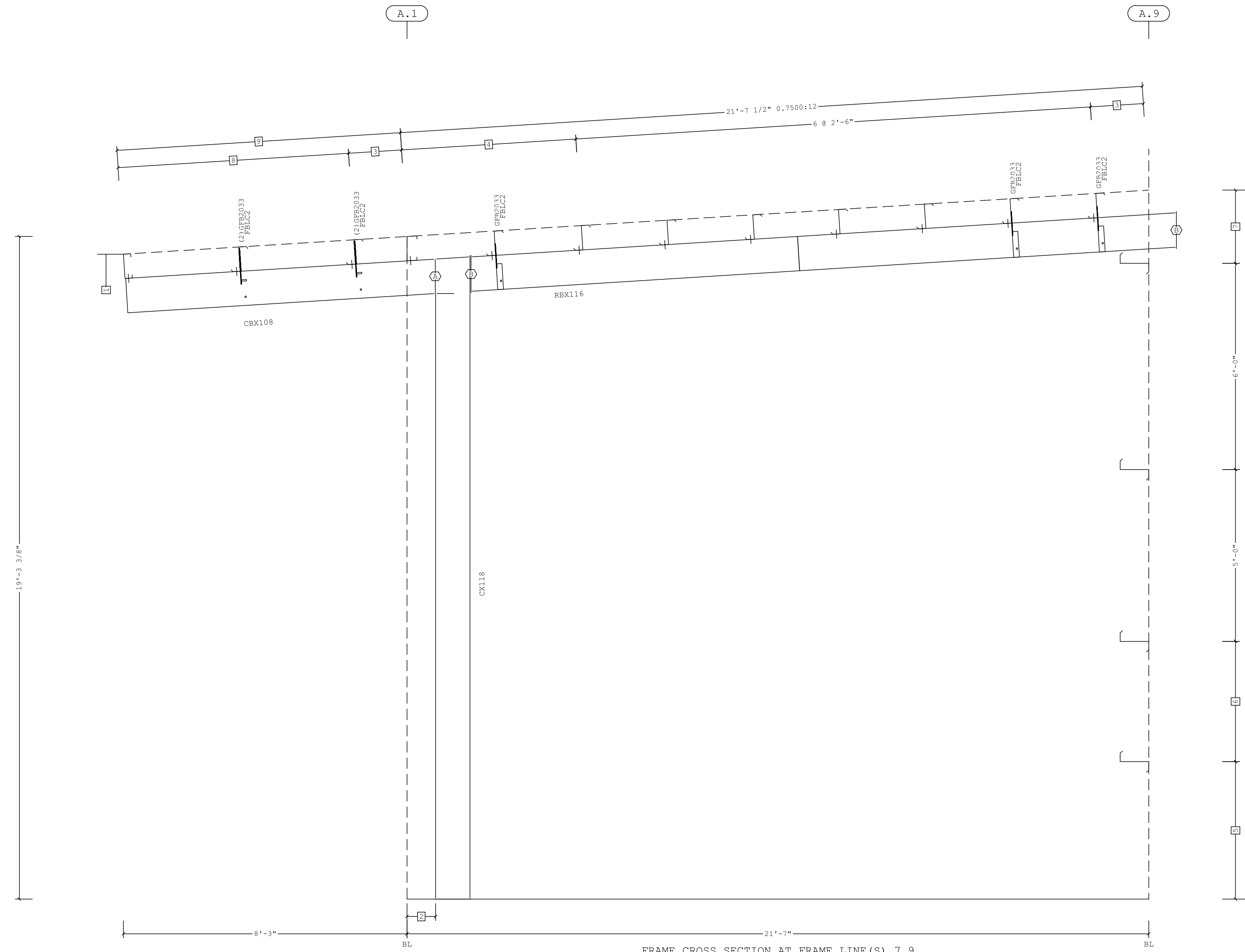
REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS FOR	JOBNO	DATE	DRAWN/CHECK	CAL	WSP	PAGE
VP Buildings 3200 Players Club Circle Memphis TN 38125				Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center - Operations	23068 - Ops	23-016001-02	3/14/2024	CAL	WSM	30	
NTS				VP BUILDINGS WARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1										

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX108	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 5/16"	156#
CX118	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	429#
RBX116	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	20'-7 7/16"	334#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo	Schedule	
									Rows	Rows
A	6	A325	3/4"	2 1/2"	1/2"	2	1	0097284		
B	4	A325	3/4"	2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX030): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

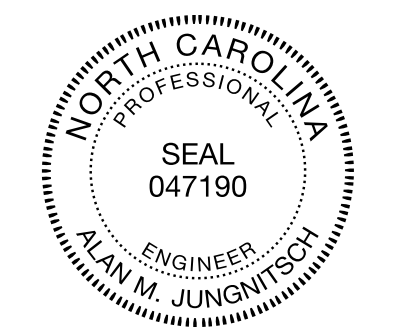


- 9 8'-3 3/16" 0.7500:12
- 8 2 @ 3'-4 5/16"
- 7 2'-1 9/16"
- 6 3'-6"
- 5 4'-0"
- 4 2 @ 2'-6 1/2"
- 3 1'-6 1/2"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

Shape Name = CANOPY 3 Wall 4, Frame 1

FRAME CROSS SECTION AT FRAME LINE(S) 7.9



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05/28/2024  
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 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**FOR CONSTRUCTION**

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VP Buildings				FRAME CROSS SECTION AT FRAME LINE(S) 7.9 (c)			
3200 Players Club Circle Memphis TN 38125							
REV	DATE	BY	DESCRIPTION	BUILDER			
				Lemartec Corporation			
				Duke Energy			
				Dunn, North Carolina			
				Duke Energy Dunn Operations Center - Operations			
				23068 - Ops			
NTS							



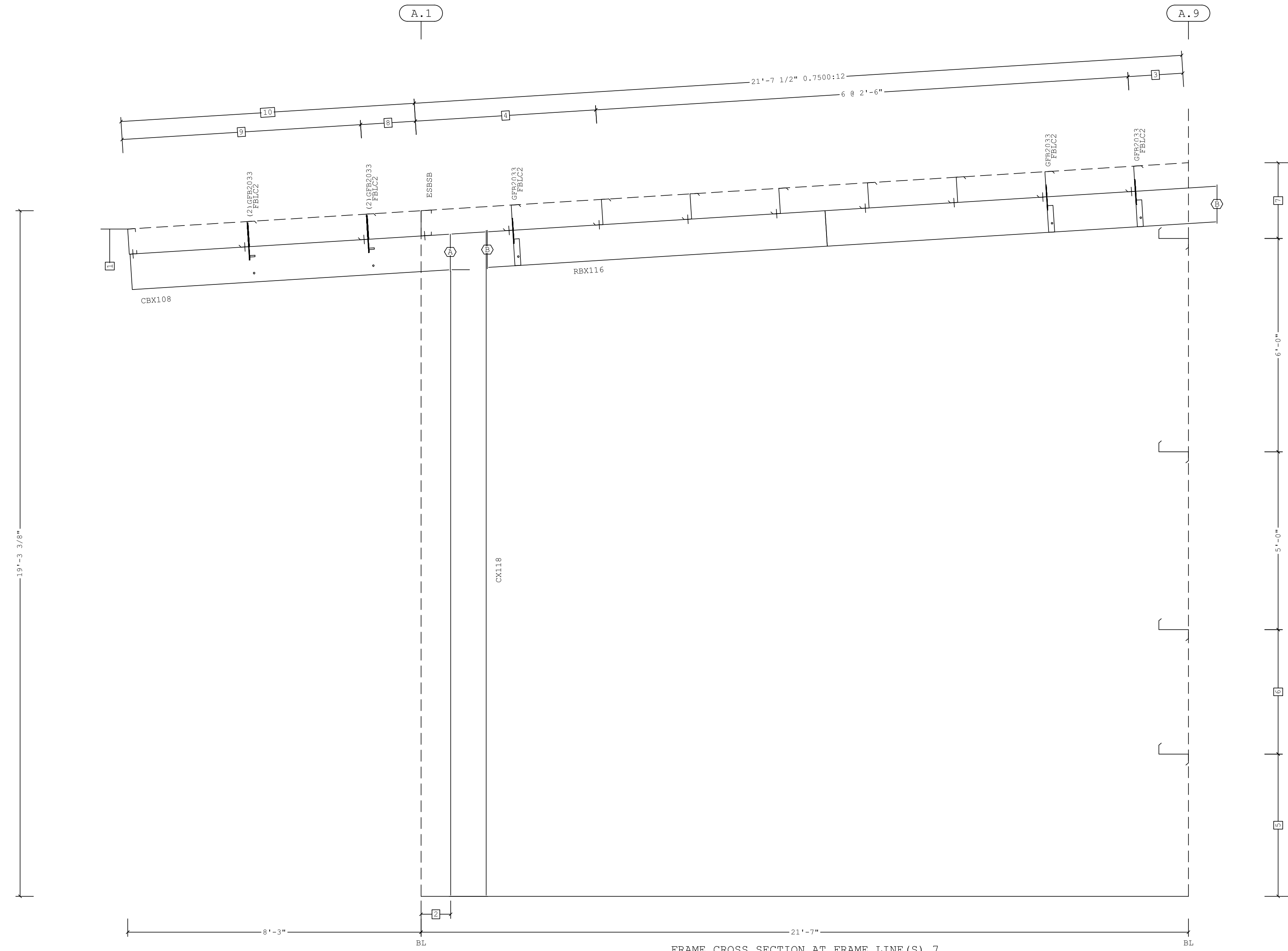
JOBNO	23-016001-02
DATE	3/14/2024
DRAWN/CHECK	CAL WSM
PAGE	31

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX108	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 5/16"	156#
CX118	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	429#
RBX116	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	20'-7 7/16"	334#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	1/2"	2	1	0097284		
B	4	A325	3/4"	2 1/2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX030): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

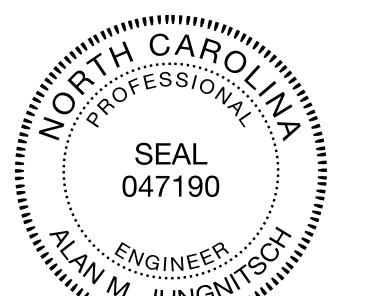


- 10 8'-3 3/16" 0.7500:12
- 9 2 @ 3'-4 5/16"
- 8 1'-6 1/2"
- 7 2'-1 9/16"
- 6 3'-6"
- 5 4'-0"
- 4 2 @ 2'-6 1/2"
- 3 1'-6 9/16"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

Shape Name = CANOPY 3 Wall 4, Frame 2

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

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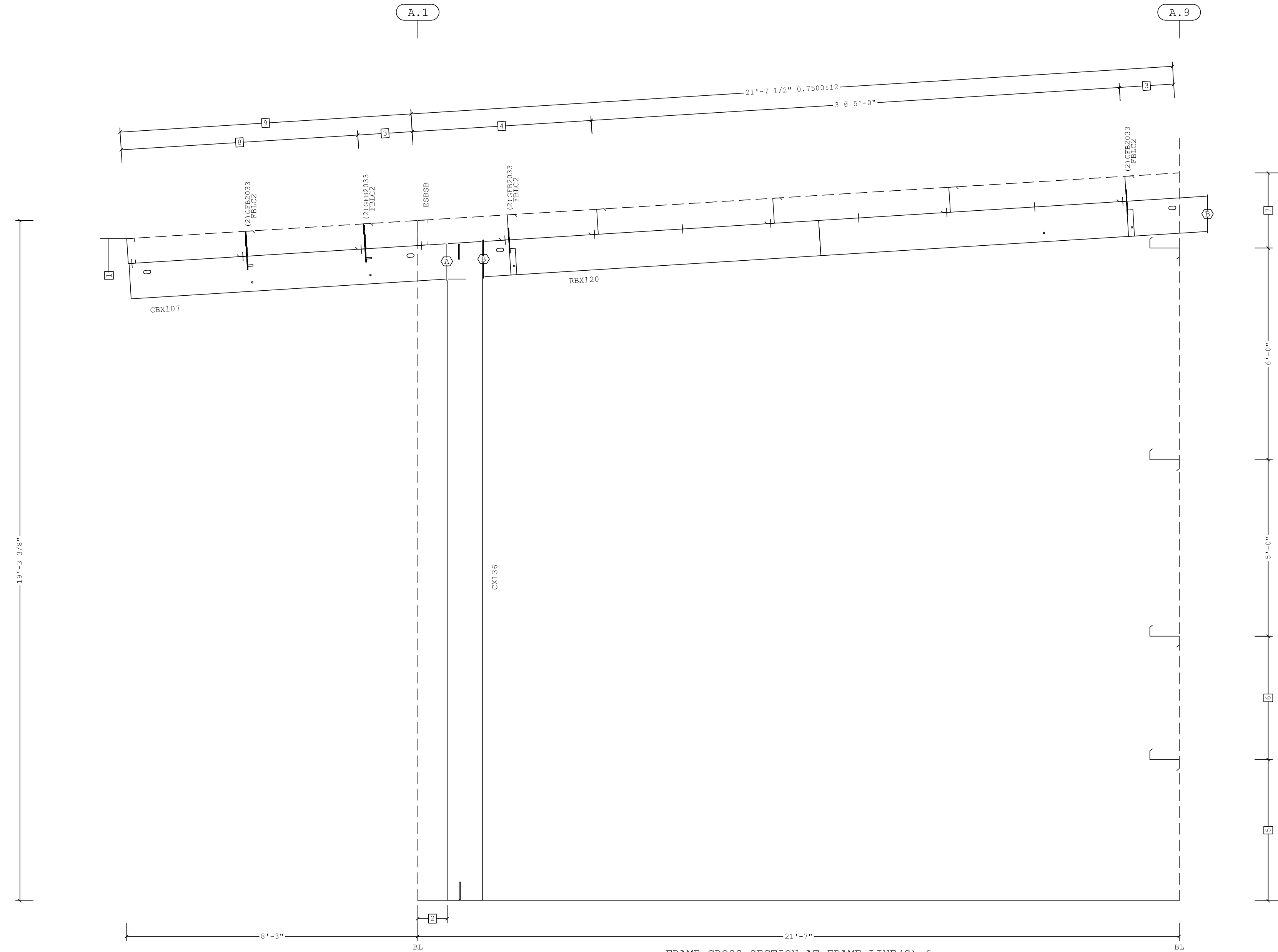
VP Buildings				FRAME CROSS SECTION AT FRAME LINE(S) 7 (c)	
REV	DATE	BY	DESCRIPTION	BUILDER	JOBNO
			3200 Players Club Circle Memphis TN 38125	Lemartec Corporation	23-016001-02
				Duke Energy	DATE 3/14/2024
				Dunn, North Carolina	DRAWN/CHECK CAL WSM
				Duke Energy Dunn Operations Center - Operations	PAGE 32
			NTS	VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1	

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX107	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 5/16"	156#
CX136	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	439#
RBX120	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	20'-7 7/16"	334#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	1/2"	2	1	0097284		
B	4	A325	3/4"	2 1/2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX031): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

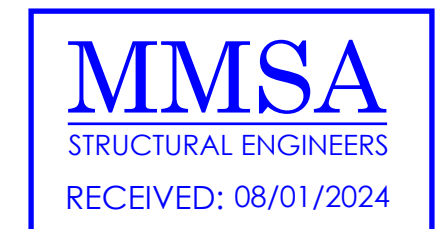


- 9 8'-3 3/16" 0.7500:12
- 8 2 @ 3'-4 5/16"
- 7 2'-1 9/16"
- 6 3'-6"
- 5 4'-0"
- 4 2 @ 2'-6 1/2"
- 3 1'-6 1/2"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

Shape Name = CANOPY 3 Wall 4, Frame 3

FRAME CROSS SECTION AT FRAME LINE(S) 6



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05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**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.

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REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS FOR	JOBNO	DATE	DRAWN/CHECK	CAL	WSP	PAGE
VP Buildings 3200 Players Club Circle Memphis TN 38125				Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center - Operations	23068 - Ops	23-016001-02	3/14/2024	WSP	WSP	33	
NTS				VP BUILDINGS WARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1										

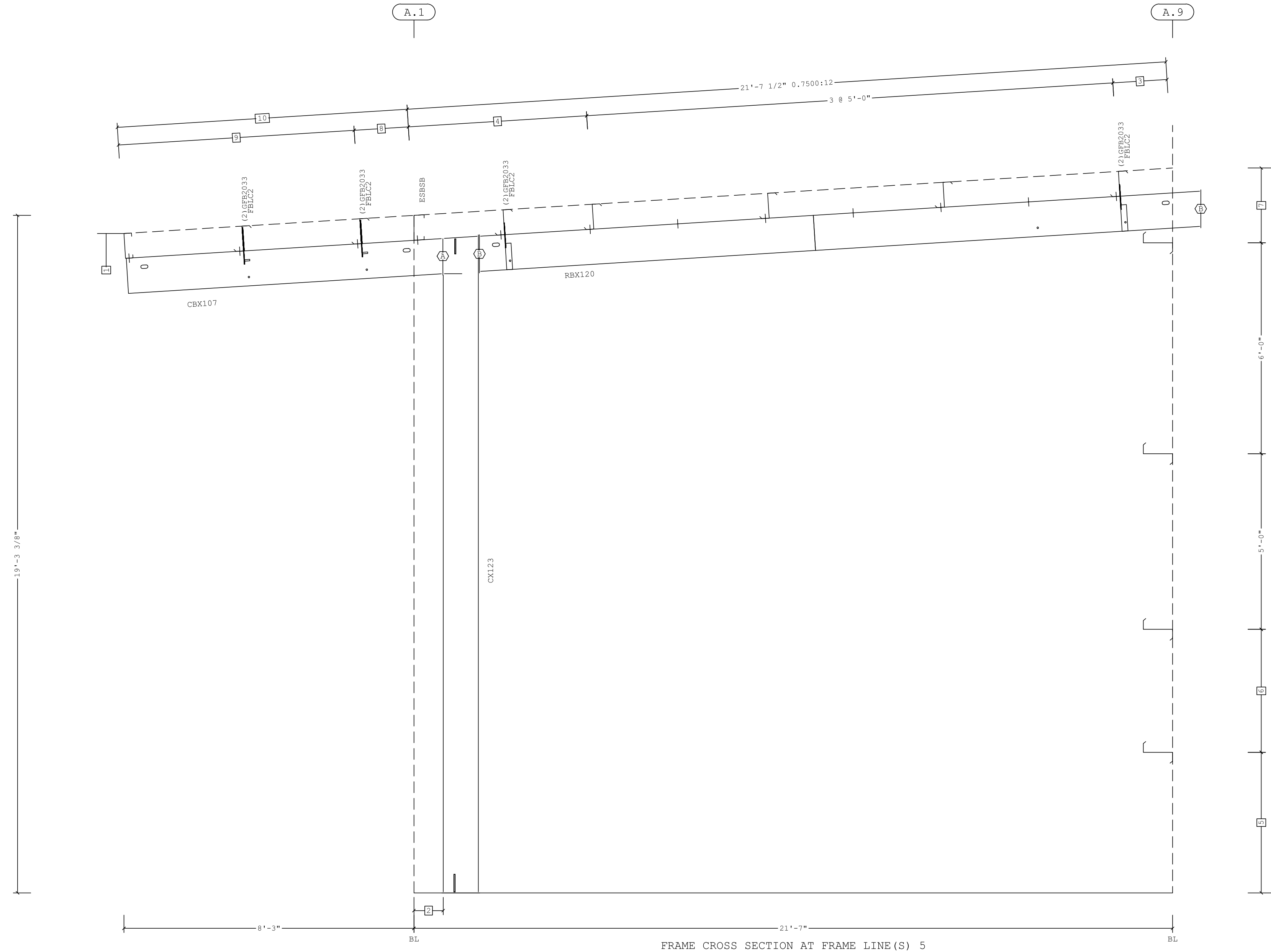
MODIFIED IN AUTOCAD



Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX107	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 5/16"	156#
CX123	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	439#
RBX120	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	20'-7 7/16"	334#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	1/2"	2	1	0097284		
B	4	A325	3/4"	2 1/2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX035): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 10 8'-3 3/16" 0.7500:12
- 9 2 @ 3'-4 5/16"
- 8 1'-6 1/2"
- 7 2'-1 9/16"
- 6 3'-6"
- 5 4'-0"
- 4 2 @ 2'-6 1/2"
- 3 1'-6 9/16"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

Shape Name = CANOPY 3 Wall 4, Frame 4

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 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**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.  
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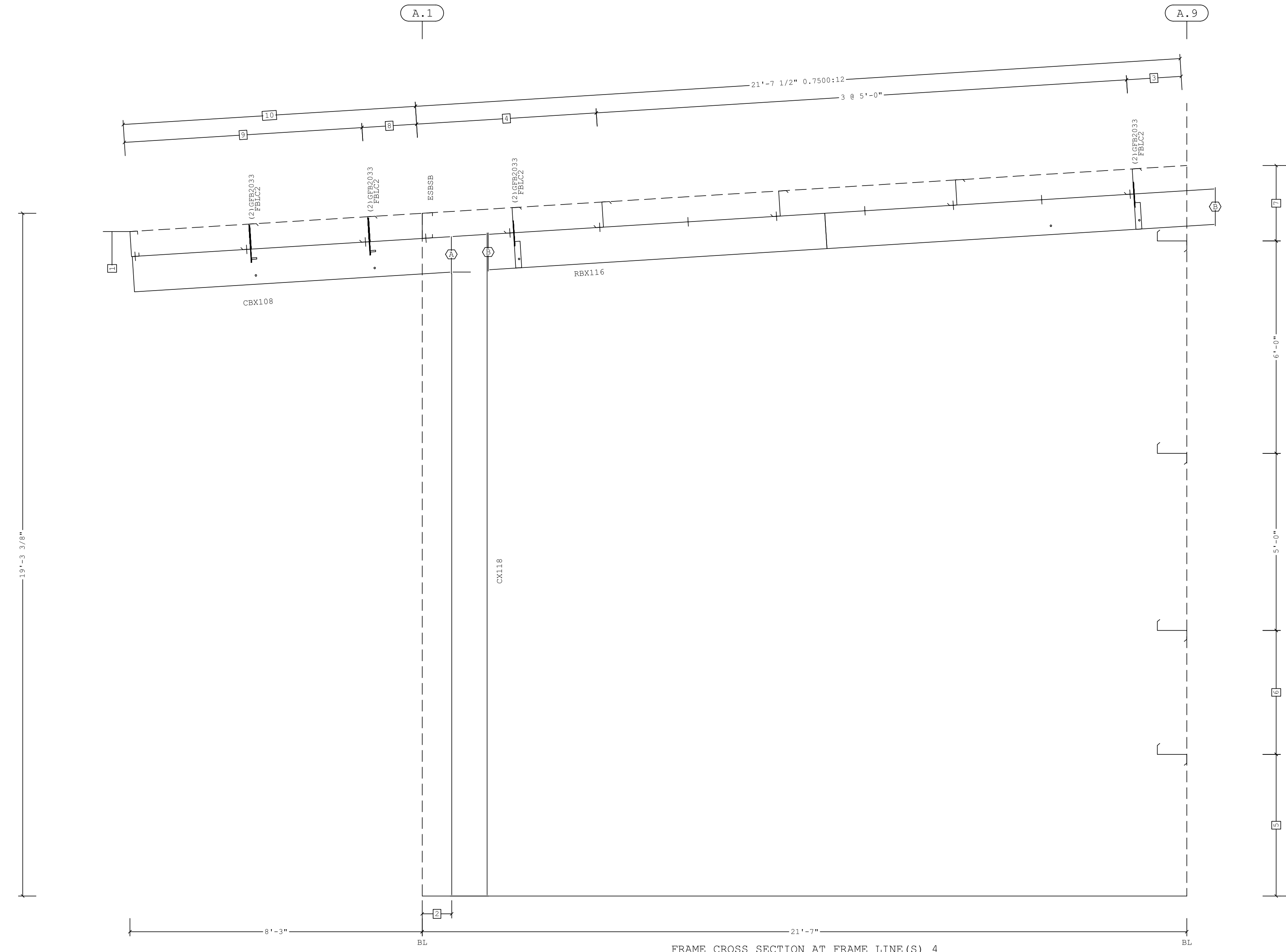
D				VP Buildings		FRAME CROSS SECTION AT FRAME LINE(S) 5 (c)	
REV	DATE	BY	DESCRIPTION	BUILDER			
				Lemartec Corporation			
				3200 Players Club Circle Memphis TN 38125			
					CUSTOMER	Duke Energy	
					LOCATION	Dunn, North Carolina	
					PROJECT	Duke Energy Dunn Operations Center - Operations	
					BUILDERS FOR	23068 - Ops	
					NTS		
					VP BUILDINGS		
					MARCO PRUDEN		
					A BlueScope Steel Company		
					VPC VERSION: 24.1.1		
					JOBNO	23-016001-02	
					DATE	3/14/2024	
					DRAWN/CHECK	CAL WSM	
					PAGE	34	

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX108	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 5/16"	156#
CX118	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	429#
RBX116	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	20'-7 7/16"	334#

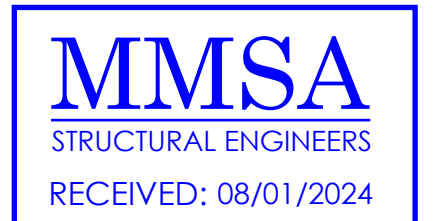
Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	1/2"	2	1	0097284		
B	4	A325	3/4"	2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX030): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 10 8'-3 3/16" 0.7500:12
- 9 2 @ 3'-4 5/16"
- 8 1'-6 1/2"
- 7 2'-1 9/16"
- 6 3'-6"
- 5 4'-0"
- 4 2 @ 2'-6 1/2"
- 3 1'-6 9/16"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key



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 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**FOR CONSTRUCTION**

Shape Name = CANOPY 3 Wall 4, Frame 5

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.

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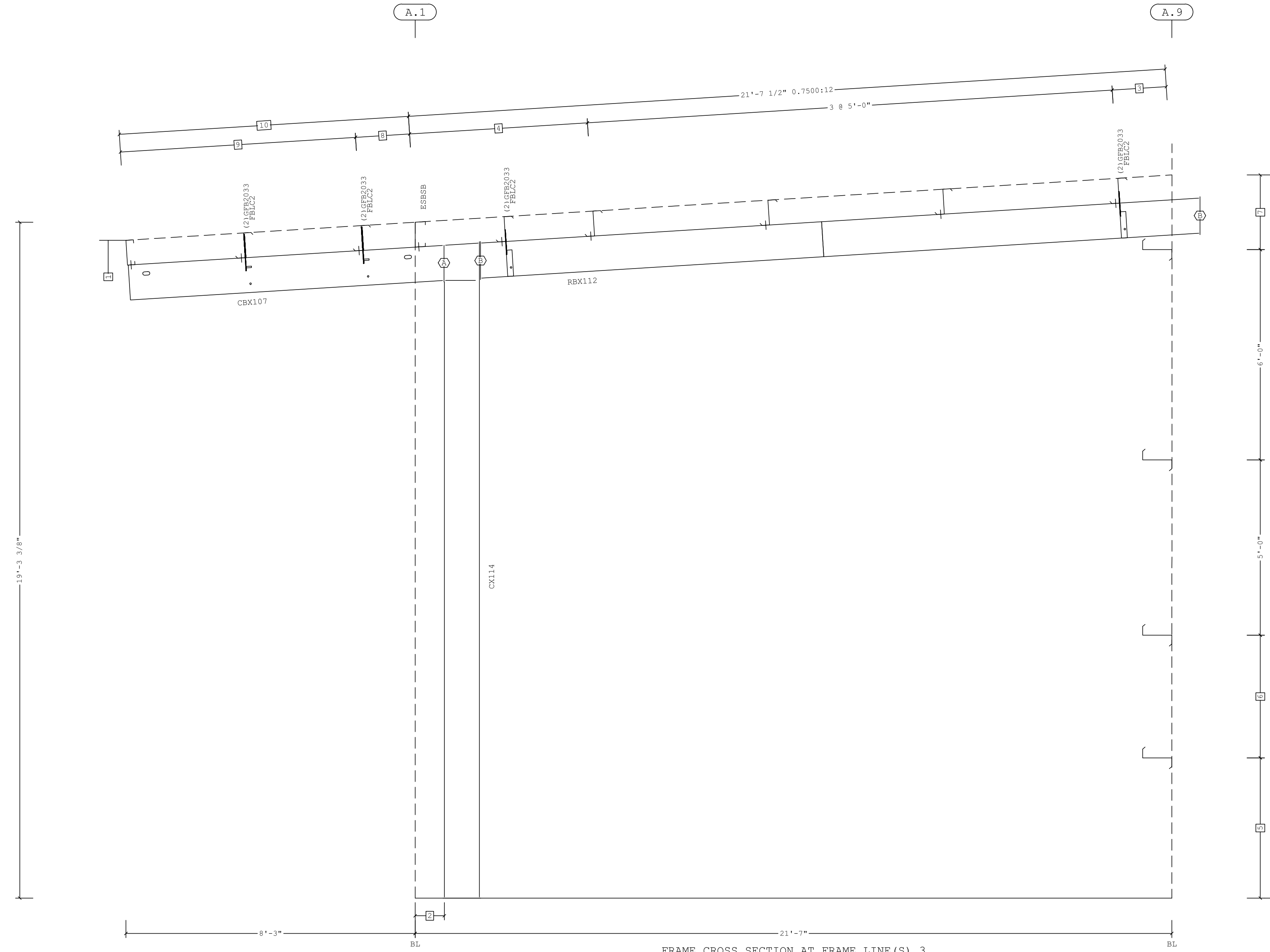
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REV		DATE	BY	DESCRIPTION	VP Buildings 3200 Players Club Circle Memphis TN 38125		FRAME CROSS SECTION AT FRAME LINE(S) 4 (c)		
				BUILDER	Lemartec Corporation		JOBNO 23-016001-02		
				CUSTOMER	Duke Energy		DATE 3/14/2024		
				LOCATION	Dunn, North Carolina		DRAWN/CHECK CAL WSM		
				PROJECT	Duke Energy Dunn Operations Center - Operations		PAGE 35		
				BUILDERS FOR	23068 - Ops		VPC VERSION: 24.1.1		
				NTS		VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company		a division of BlueScope Buildings North America, Inc.	

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX107	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 5/16"	156#
CX114	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	431#
RBX112	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	20'-7 7/16"	334#

Bolt Connection & Plate Schedule											
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo			
A	6	A325	3/4"	2 1/2"	1/2"	2	1	0097284			
B	4	A325	3/4"	2 1/2"	3/8"	1	-	0097284			

Frame Clearances  
 Vert. Clearance at member 1(CX029): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

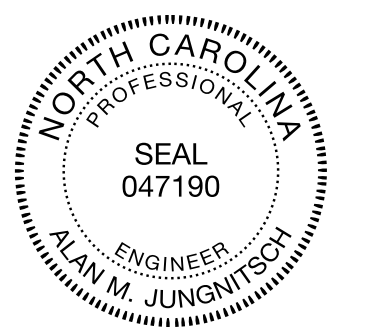


- 10 8'-3 3/16" 0.7500:12
- 9 2 @ 3'-4 5/16"
- 8 1'-6 1/2"
- 7 2'-1 9/16"
- 6 3'-6"
- 5 4'-0"
- 4 2 @ 2'-6 1/2"
- 3 1'-6 9/16"
- 2 10"
- 1 18'-9 3/16"

☐ Dimension Key

Shape Name = CANOPY 3 Wall 4, Frame 6

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 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**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.  
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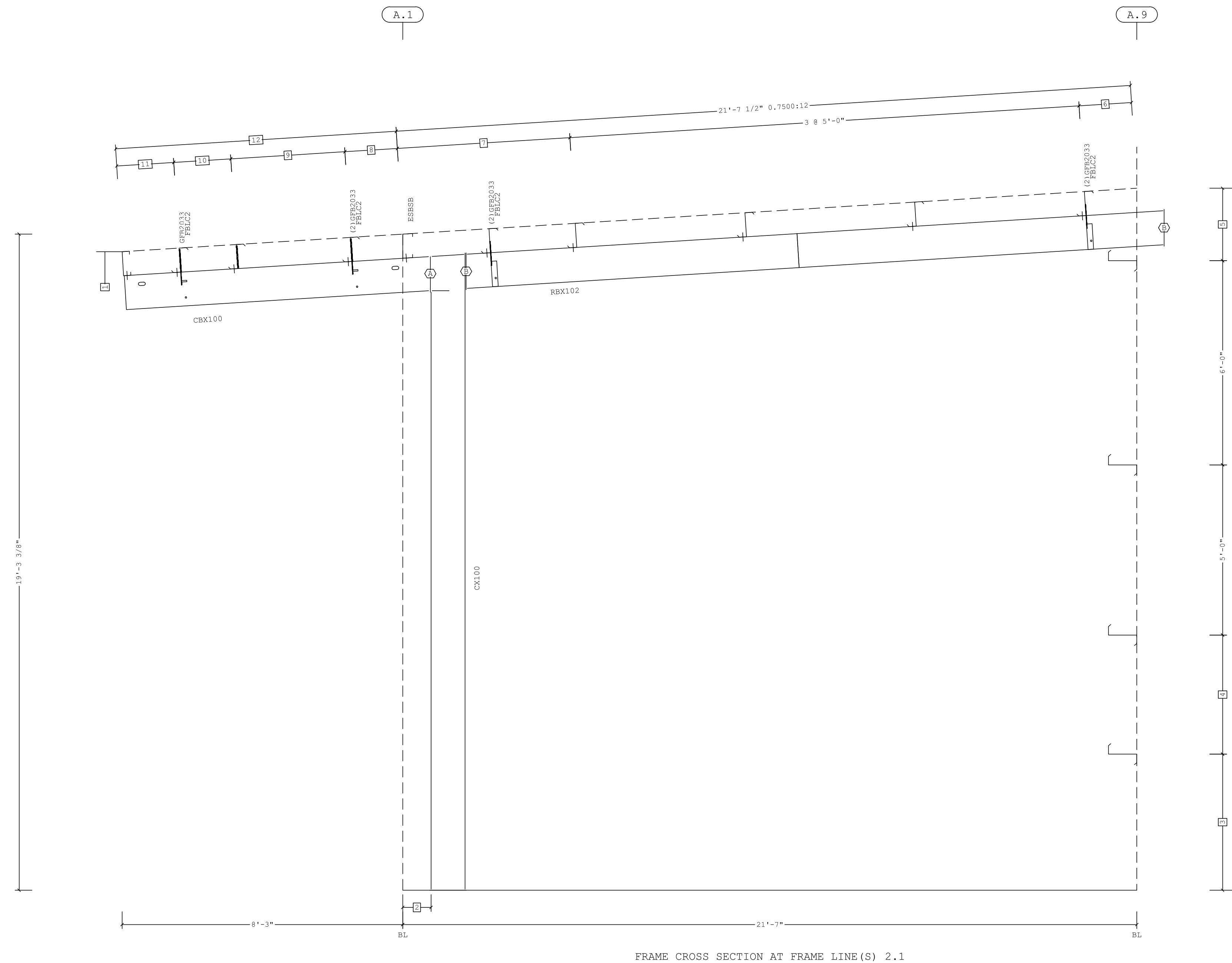
REV	DATE	BY	DESCRIPTION	BUILDER	Customer	LOCATION	PROJECT	BUILDERS PO#	VP BUILDINGS	JOBNO
				Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center - Operations	23068 - Ops	VP BUILDINGS WARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1	23-016001-02
										DATE 3/14/2024
										DRAWN/CHECK CAL WSM
										PAGE 36

MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX100	10001	6.0000	.2500	.1345	1'-0"	1'-0"	9'-0 3/16"	162#
CX100	1	6.0000	.3750	.1644	1'-0"	1'-0"	18'-8 3/16"	433#
RBX102	2-3	6.0000	.2500	.1345	1'-0"	1'-0"	20'-7 7/16"	334#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	3/4"	2 1/2"	5/8"	2	1	0097284		
B	4	A325	3/4"	2 1/2"	3/8"	1	-	0097284		

Frame Clearances  
 Vert. Clearance at member 1(CX028): 17'-8 1/4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



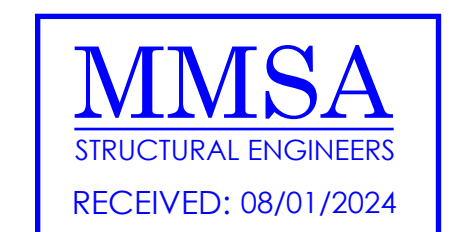
- 12 8'-3 3/16" 0.7500:12
- 11 1'-8 1/8"
- 10 1'-8 3/16"
- 9 3'-4 5/16"
- 8 1'-6 1/2"
- 7 2 @ 2'-6 1/2"
- 6 1'-6 9/16"
- 5 2'-1 9/16"
- 4 3'-6"
- 3 4'-0"
- 2 10"
- 1 18'-9 3/16"

□ Dimension Key

FRAME CROSS SECTION AT FRAME LINE(S) 2.1

Shape Name = CANOPY 3 Wall 4, Frame 7

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 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**FOR CONSTRUCTION**

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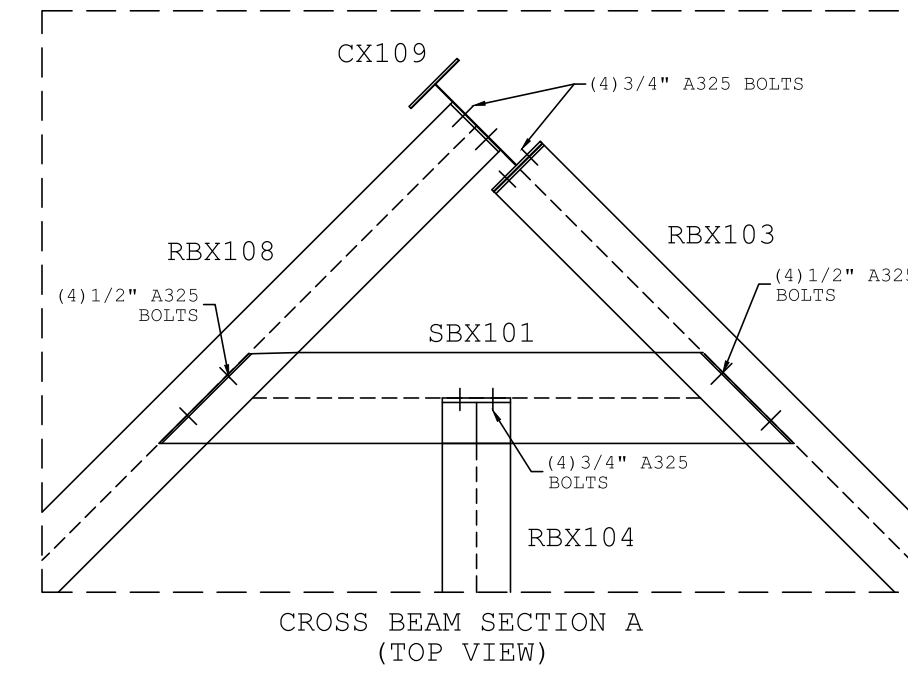
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REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS FOR	JOBNO	DATE	DRAWN/CHECK	CAL	WSM	PAGE
VP Buildings 3200 Players Club Circle Memphis TN 38125				Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center - Operations	23068 - Ops	23-016001-02	3/14/2024	CAL	WSM	37	
NTS				VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1										

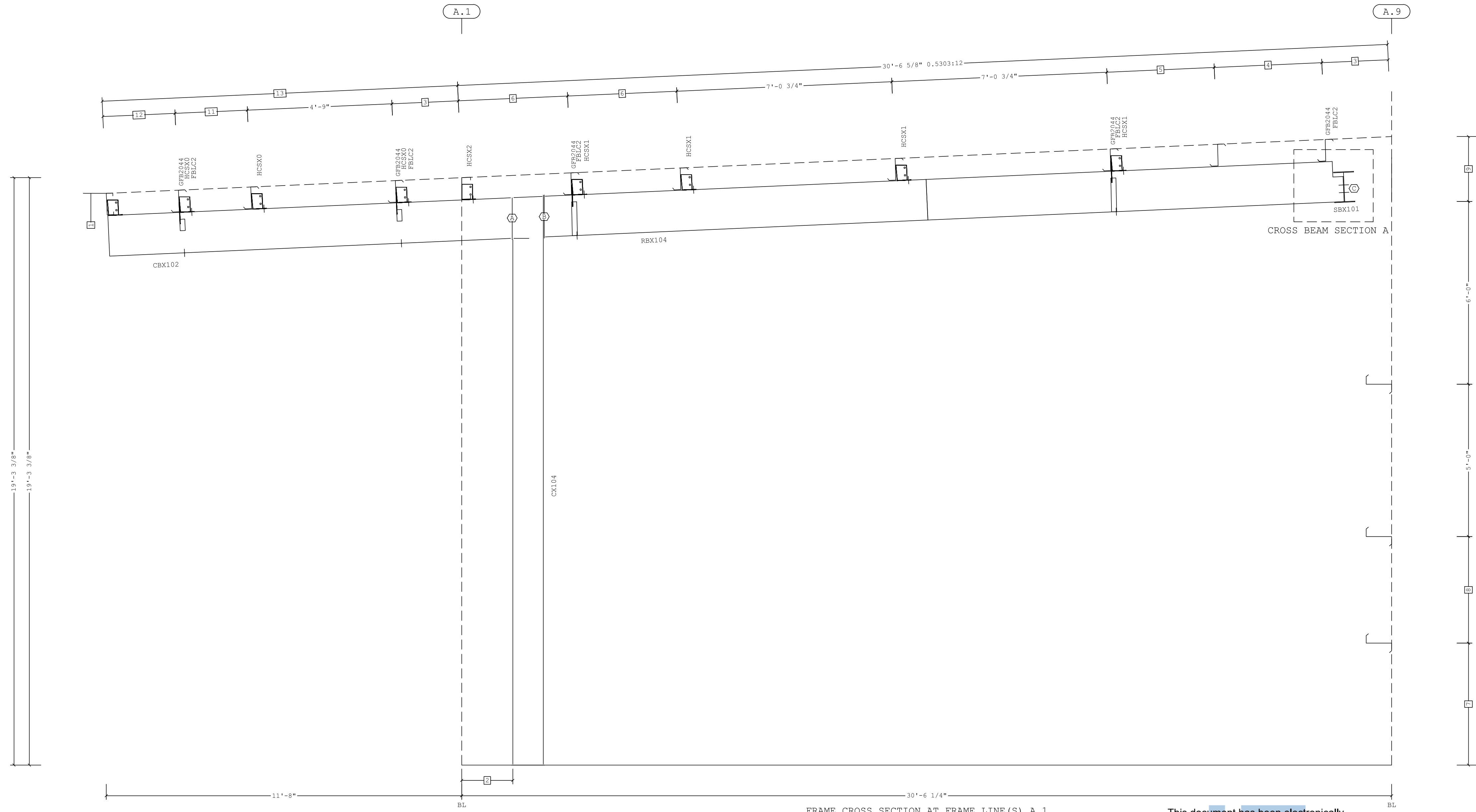
MODIFIED IN AUTOCAD

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX102	10001	6.0000	.3125	.1345	1'-4"	1'-4"	13'-3 3/8"	279#
CX036	1	8.0000	.3750	.1644	1'-0"	1'-0"	18'-8"	535#
RBX041	2	6.0000	.2500	.1644	1'-4"	1'-4"	27'-10 3/4"	522#
	3	6.0000	.2500	.1345	1'-4"	1'-4"		
SBX101		8.0000	.2500	.1875	1'-0"	1'-0"	6'-2 1/4"	114#

Bolt Connection & Plate Schedule												
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo				
A	6	A325	3/4"	2 1/2"	5/8"	2	1	0097284				
B	4	A325	3/4"	2"	3/8"	1	-	0097280				
C	4	A325	3/4"	1 1/2"	3/8"	1	-	49080				



Frame Clearances  
 Vert. Clearance at member 1(CX036): 17'-4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

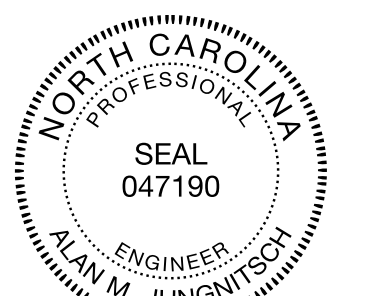
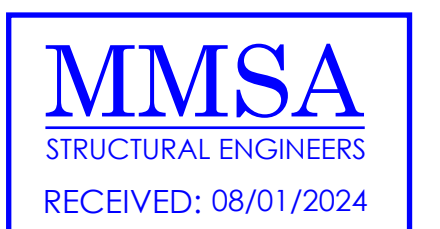


13	11'-8 1/8"	0.5303:12
12	2'-4 7/16"	
11	2'-4 1/2"	
10	2 @ 0"	
9	2'-1 9/16"	
8	3'-6"	
7	4'-0"	
6	3'-7 1/16"	
5	3'-6 5/16"	
4	3'-6 7/16"	
3	2'-2 3/16"	
2	1'-8 1/8"	
1	18'-9 3/16"	

□ Dimension Key

Shape Name = CANOPY 3 Wall 4, Frame 8

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05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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.

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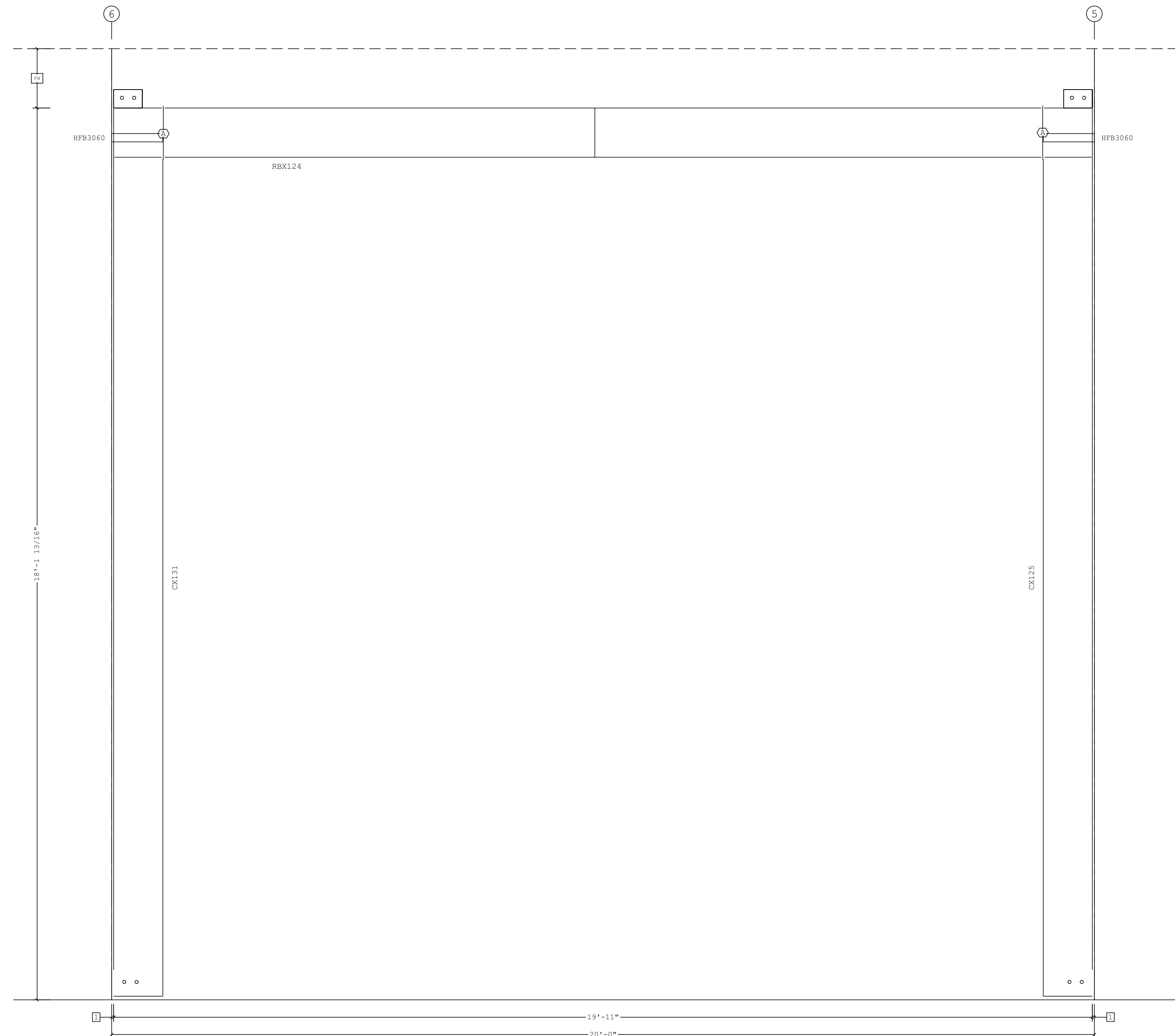
THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING. DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING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

VP Buildings				FRAME CROSS SECTION AT FRAME LINE(S) A.1			
3200 Players Club Circle Memphis TN 38125				Lemartec Corporation			
REV	DATE	BY	DESCRIPTION	BUILDER	Duke Energy		
				CUSTOMER	Dunn, North Carolina		
				PROJECT	Duke Energy Dunn Operations Center - Operations		
				BUILDERS FOR	23068 - Ops		
NTS				VP BUILDINGS WARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1			
				JOBNO	23-016001-02		
				DATE	3/14/2024		
				DRAWN/CHECK	CAL WSM		
				PAGE	38		

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX131	1	8.0000	.2500	.1644	1'-0"	1'-0"	18'-0 15/16"	377#
RBX124	2-3	6.0000	.2500	.1644	1'-0"	1'-0"	17'-10 3/4"	313#
CX125	4	8.0000	.2500	.1644	1'-0"	1'-0"	18'-0 15/16"	377#

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

Frame Clearances  
 Horiz. Clearance between members 1(CX045) and 4(CX046): 17'-11"  
 Vert. Clearance at member 1(CX045): 17'-1 5/16"  
 Vert. Clearance at member 4(CX046): 17'-1 5/16"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



PORTAL FRAME ELEVATION ALONG A.1

- 2 1'-2 1/2"
- 1 1/2"

☐ Dimension Key

Shape Name = CANOPY 3 Wall 4, Frame 3



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**FOR CONSTRUCTION**

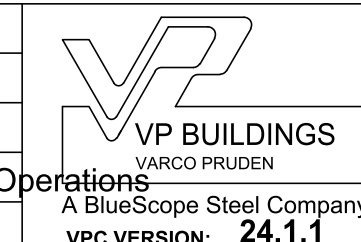
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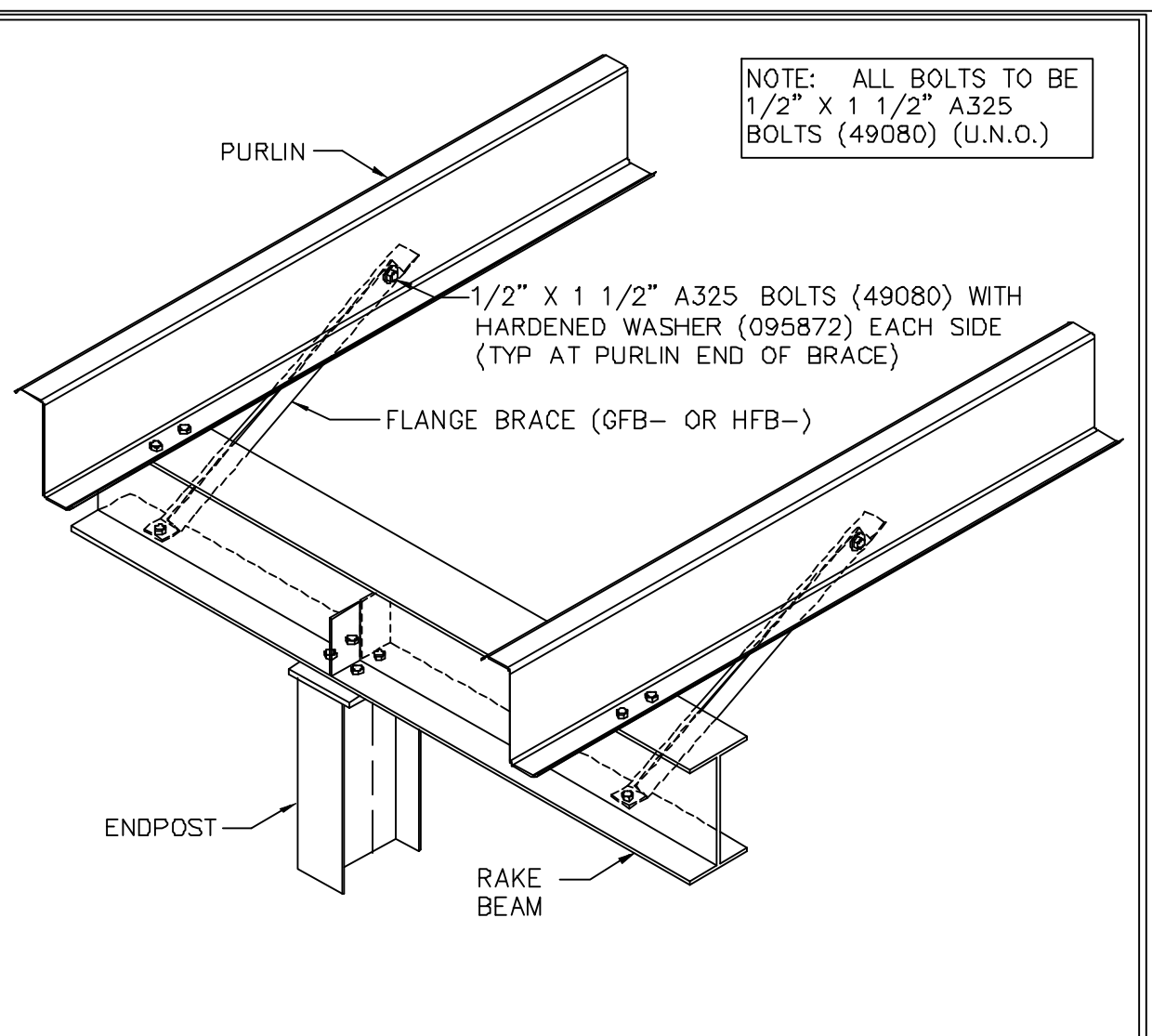
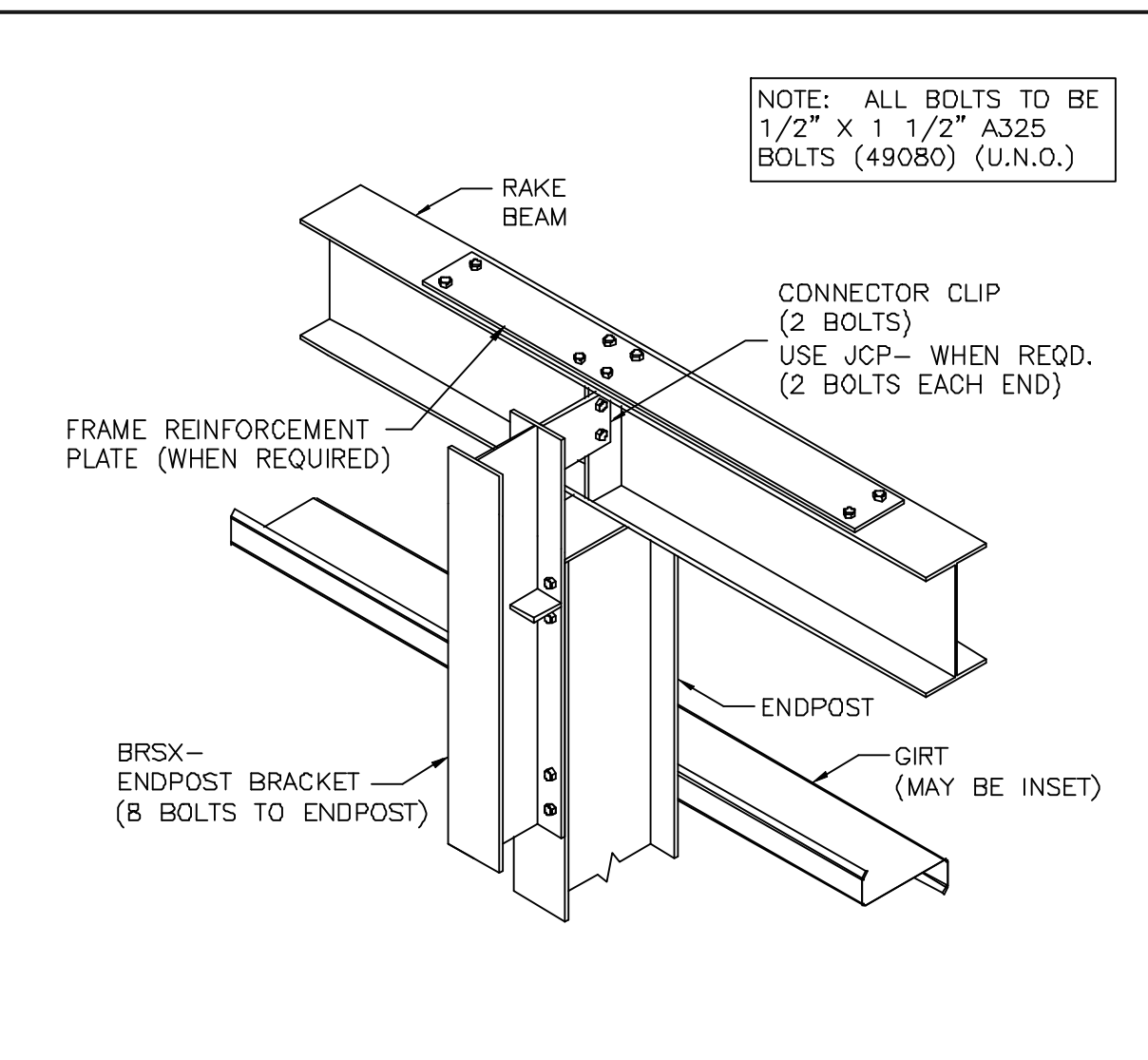
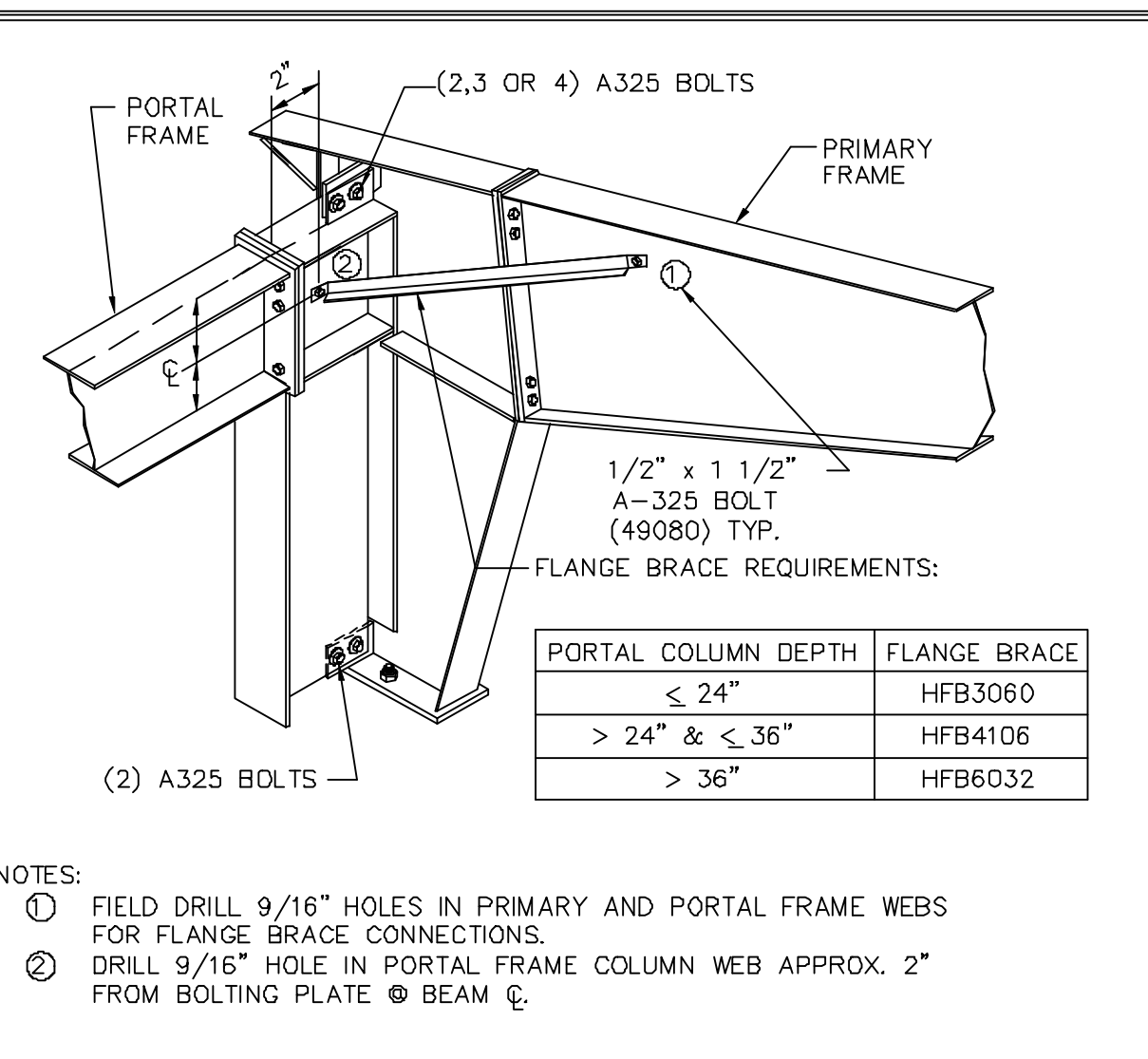
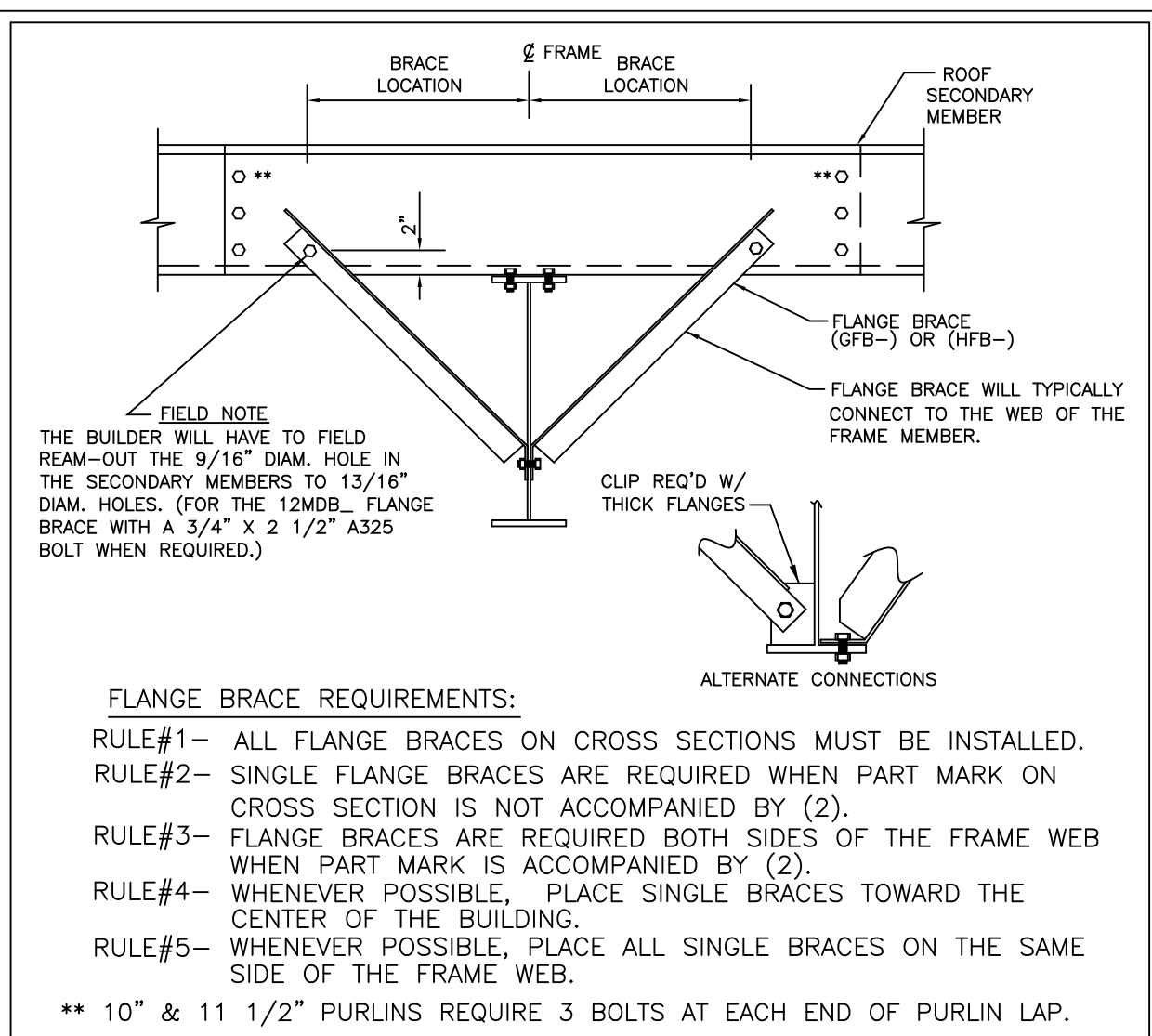
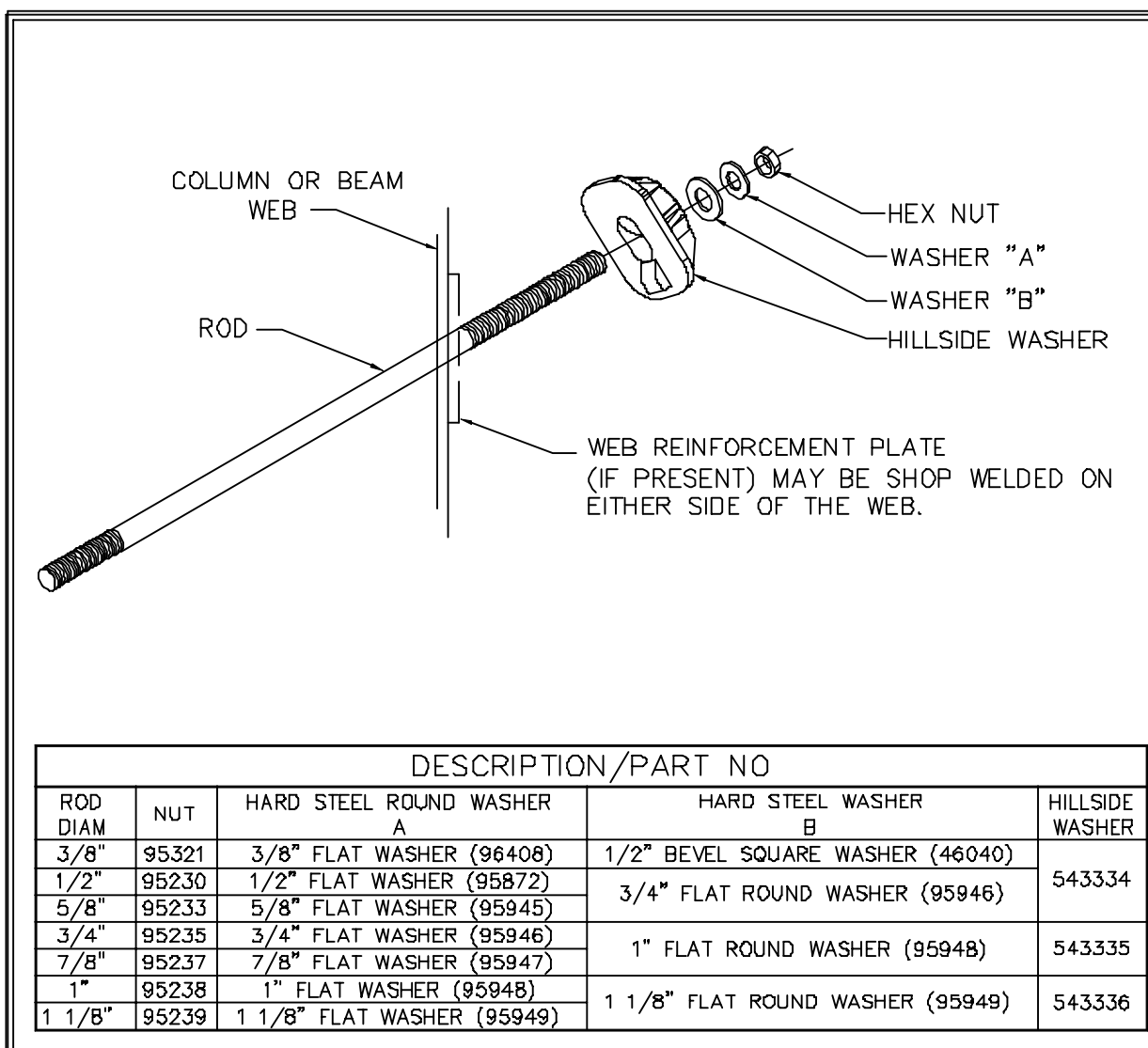
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VP Buildings				PORTAL FRAME ELEVATION ALONG A.1			
3200 Players Club Circle Memphis TN 38125							
REV	DATE	BY	DESCRIPTION	BUILDER			
				Lemartec Corporation			
				Duke Energy			
				Dunn, North Carolina			
				Duke Energy Dunn Operations Center - Operations			
				23068 - Ops			
NTS							



JOBNO	23-016001-02
DATE	3/14/2024
DRAWN/CHECK	CAL WSM
PAGE	39

MODIFIED IN AUTOCAD



REV. DATE: 08/02/17 | REV. NO. 04 | ROD BRACE WEB SLOT ASSEMBLY | BR01G2

REV. DATE: 05/08/18 | REV. NO. 02 | TYPICAL FLANGE BRACE CONNECTIONS CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN | BR06AE

REV. DATE: 03/17/18 | REV. NO. 03 | FLUSH PORTAL FRAME CONNECTION FLANGE BRACE CONNECTION AND LOCATION | BR12K1

REV. DATE: 07/01/09 | REV. NO. 00 | TOP OF ENDPOST ENDPOST BRACKET TO RAKE BEAM | BR25BD

REV. DATE: 11/16/15 | REV. NO. 03 | ENDPOST TOP BETWEEN PURLINS NO CAP CHANNEL - BRACED TO PURLINS ONLY | BR25CA

F = FEET G = GAGE  
I = INCHES O = OPERATION  
E = EIGHTHS C = FIN/COLOR

PANEL/COVERING  
W 1 3 1 1 7 2 6 1 K T D  
\* F F I I E G G O C C C  
LENGTH CODE

INSULATION  
I B 1 3 0 1 0 3 6 0 3 0 W V  
\* \* F F F I I I I I I E C C  
LENGTH WIDTH THK CODE

SECONDARY (STANDARD)  
O B Z 1 9 1 1 4 1 7 - - - -  
\* \* \* F F I I E G G \* \* \* \* \*

DEPTH LENGTH GAGE ADJUST. CODES  
SHAPE

SECONDARY (SPECIAL)  
O 0 1 0 B Z 1 9 1 1 4 1 7 - - - -  
\* \* \* \* \* F F I I E G G \* \* \* \*

COUNTER DEPTH & LENGTH GAGE ADJUST CODES  
SHAPE

ROD BRACING  
O 3 R S 2 5 1 0  
I E \* \* F F I I  
DIA LENGTH

RS = THREADS BOTH ENDS  
RT = THREADS ONE END - CLEVIS ONE END  
RU = CLEVIS BOTH ENDS  
RP = THREAD BOTH ENDS - NO HILLSIDES

CX\*\*\* = COLUMN (PLATE)  
CGX\*\*\* = COLUMN (GAGE)  
WCX\*\*\* = COLUMN (HOTROLL)

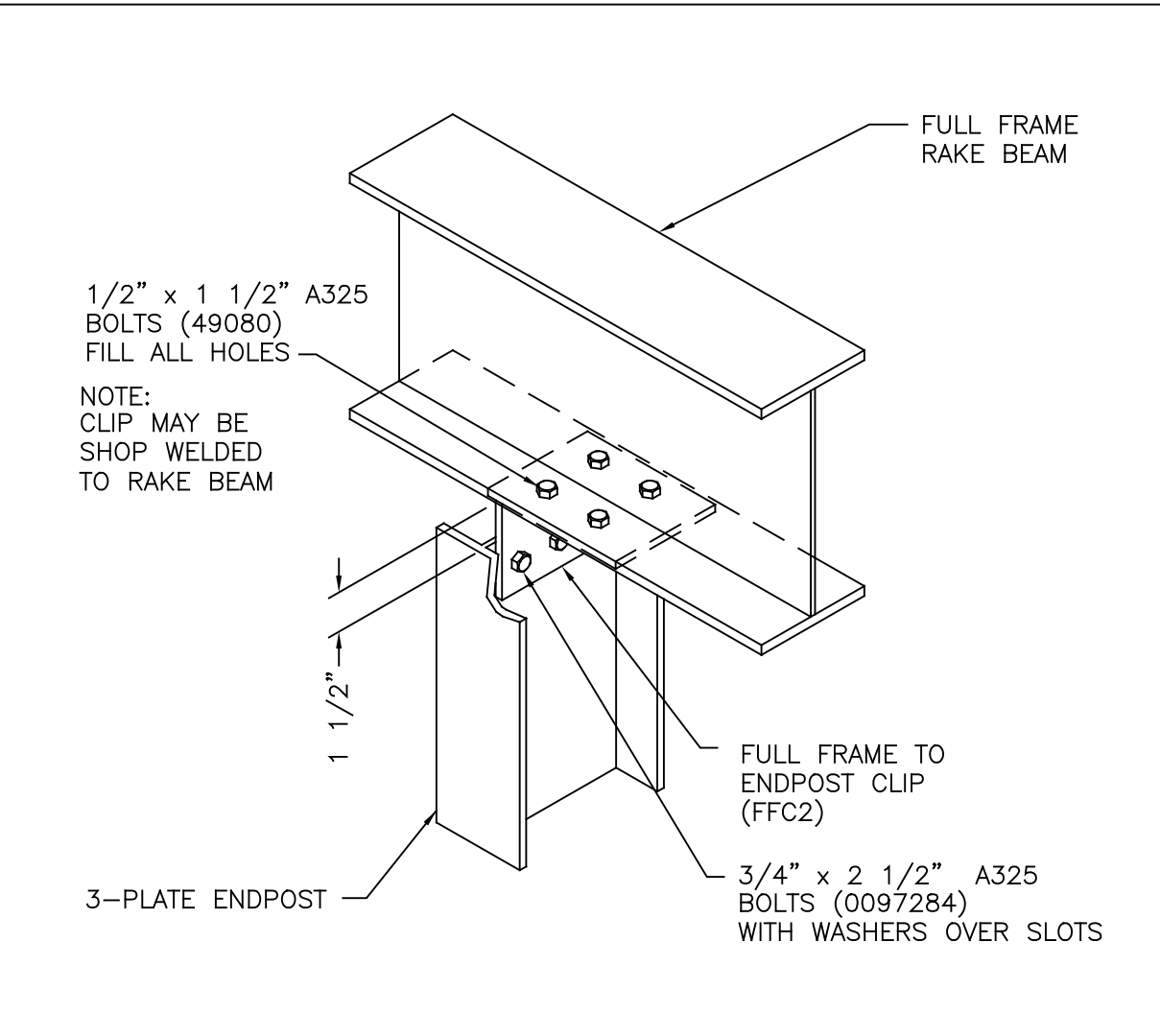
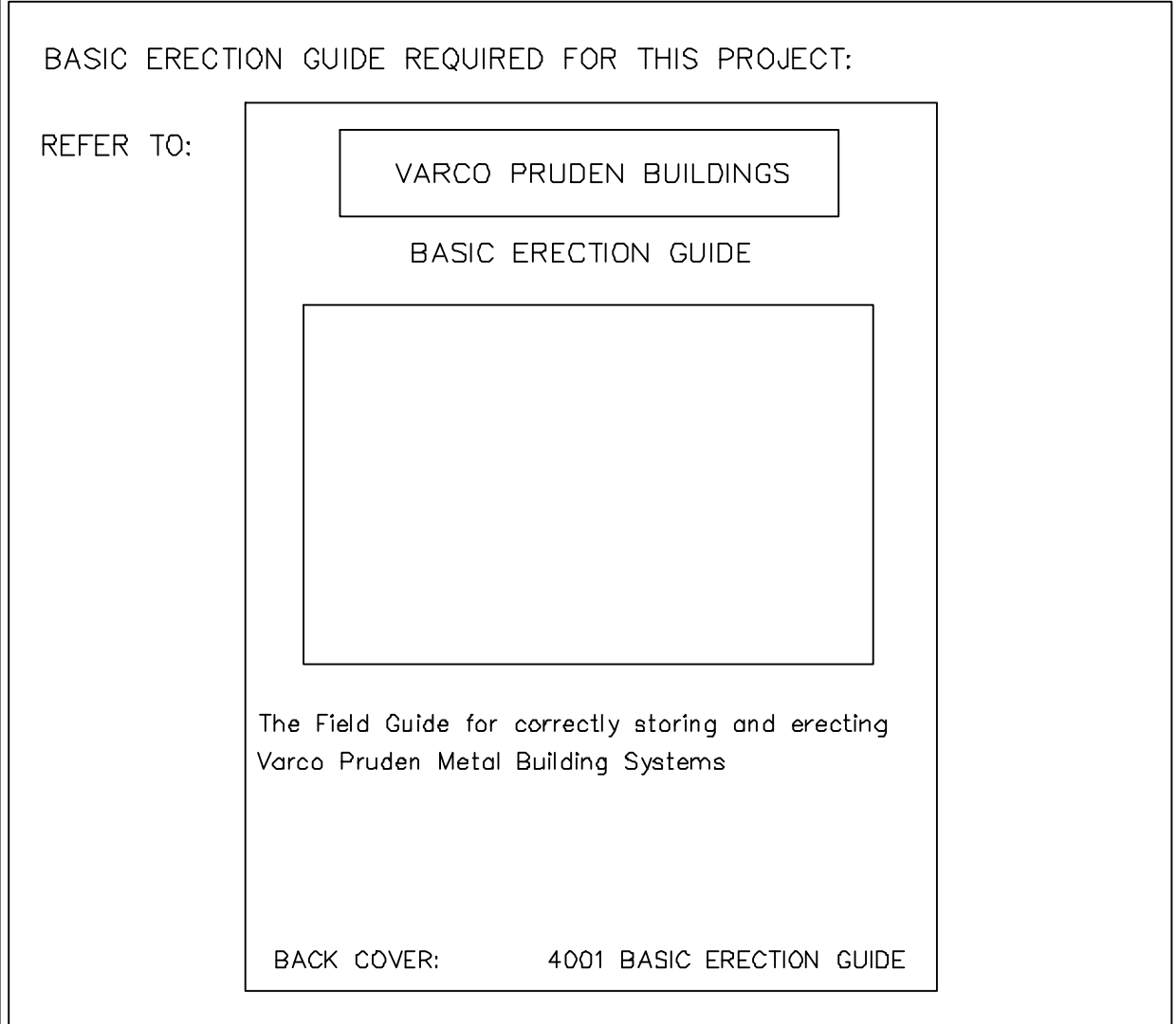
RBX\*\*\* = RAFTER (PLATE)  
BGX\*\*\* = RAFTER (GAGE)  
WRX\*\*\* = RAFTER (HOTROLL)  
TRX\*\*\* = TRUSS RAFTER

ICX\*\*\* = INTERIOR COLUMN  
PCX\*\*\* = PIPE COLUMN  
TCX\*\*\* = TUBE COLUMN

EPX\*\*\* = ENDPOST (PLATE)  
EGX\*\*\* = ENDPOST (GAGE)

CBX\*\*\* = CANOPY (PLATE)  
CBX\*\*\* = PIGGYBACK CANOPY

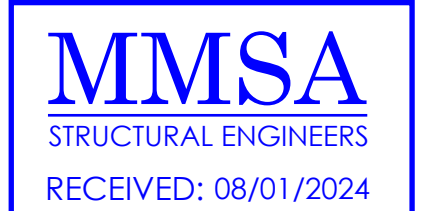
DCC\*\*\* = 8 1/2" GAGE POST  
DCE\*\*\* = 10" GAGE POST



REV. DATE: 08/29/12 | REV. NO. 01 | MARK NUMBER KEY COMMON GENERATED MARK NUMBERS | EN50B1

REV. DATE: 01/30/14 | REV. NO. 00 | BASIC ERECTION GUIDE - STRUCTURAL | ENV002

REV. DATE: 04/04/22 | REV. NO. 02 | 3-PLATE ENDPOST TO FULL FRAME FULL FRAME ENDWALL | PF10CA



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FOR CONSTRUCTION

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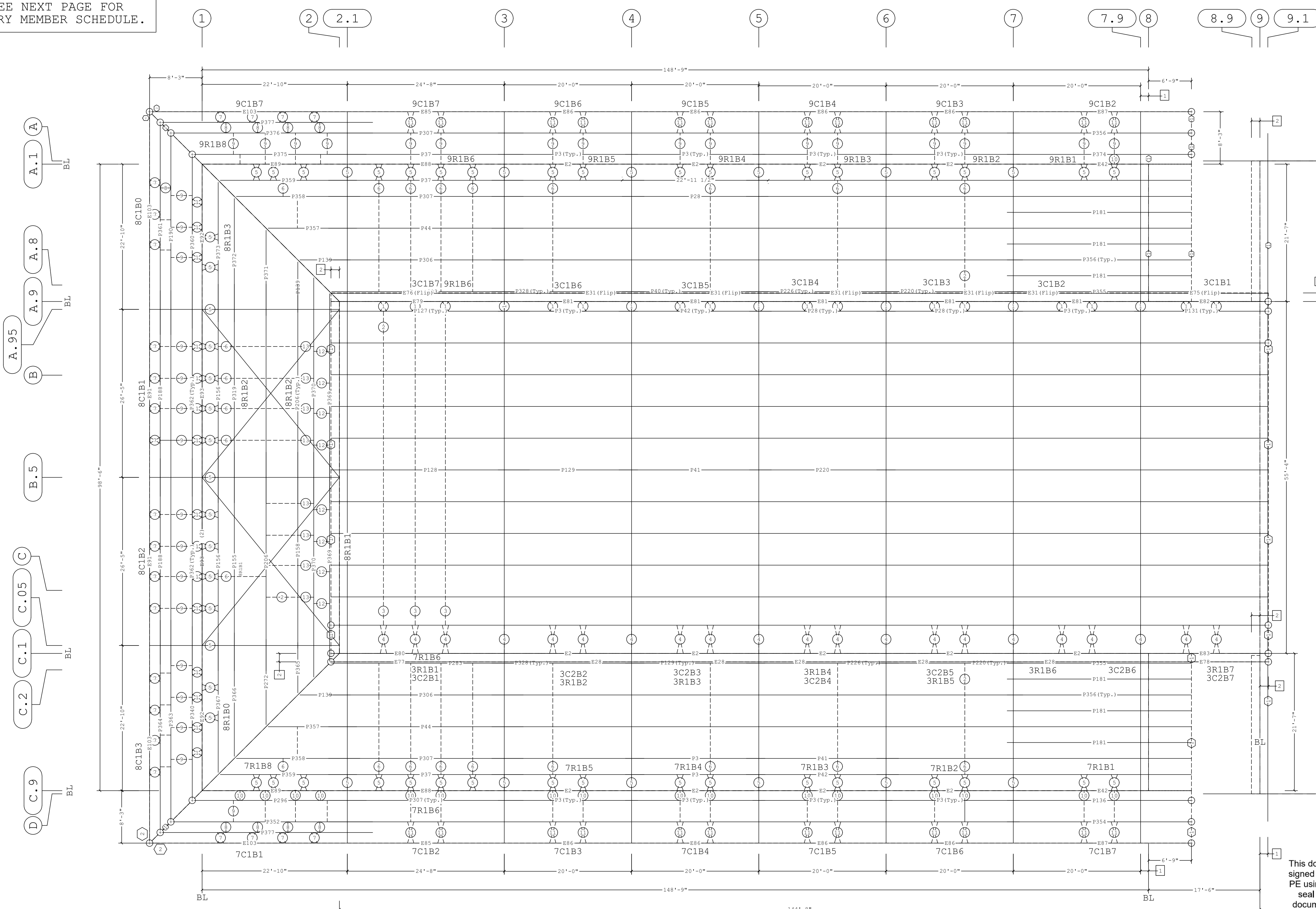
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D				VP Buildings		PRIMARY BRACING SED'S (a)	
REV	DATE	BY	DESCRIPTION	BUILDER			
				Lemartec Corporation			
				Duke Energy			
				Dunn, North Carolina			
				Duke Energy Dunn Operations Center - Operations			
				23068 - Ops			
				NTS			
				5/21/2024 SEDSheet			
				20:30:21			

BUILDER	Lemartec Corporation	JOBNO	23-016001-02
CUSTOMER	Duke Energy	DATE	3/14/2024
LOCATION	Dunn, North Carolina	DRAWN/CHECK	CAL WSM
PROJECT	Duke Energy Dunn Operations Center - Operations	PAGE	40
BUILDERS PO#	23068 - Ops	VPC VERSION:	24.1.1
FILENAME:	Duke Energy - Ops	a division of BlueScope Buildings North America, Inc.	

NOTE: SEE NEXT PAGE FOR SECONDARY MEMBER SCHEDULE.



Id	Qty	Mark No	Spacing
1	66	FBA0110	1'-6 9/16"
2	90	CPB050108 (Typ.)	5'-0"
3	3	CPB040700	4'-5 3/8"
4	36	FBA0409	4'-5 3/8"
5	107	FBA0210	2'-6 1/2"
6	23	CFB020800	2'-6 1/2"
7	46	FBA0200	1'-8 1/8"
8	23	CPB010912	1'-8 3/16"
9	47	CFB030514	3'-4 5/16"
10	32	CFB011104	1'-6 9/16"
11	48	FBA0308	3'-4 5/16"
12	8	CPB020710	2'-6 1/16"
13	8	CPB020708	2'-6"

See SED:  
 BR09K5, BR09JG, BR09RY, BR09RZ, BR09JR  
 BR09JH, BR09K2, BR09JM, BR09FM, BR09FK  
 BR09JK

OPERATIONS BLDG  
 (23-016001-02)



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 FIRM F-0998

FOR CONSTRUCTION

GARAGE BAYS  
 ROOF SECONDARY PLAN

Shape Name = GARAGE BAYS

- |                 |                             |
|-----------------|-----------------------------|
| 3 0"            | Part Mark Key               |
| 2 1'-4"         | 1 RKC15                     |
| 1 1'-3"         | 2 GFA106                    |
| □ Dimension Key | (+) SSR Fixed Clip Location |

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  
 3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

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VP Buildings				3200 Players Club Circle Memphis TN 38125		ROOF SECONDARY PLAN	
REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation		
				CUSTOMER	Duke Energy		
				LOCATION	Dunn, North Carolina		
				PROJECT	Duke Energy Dunn Operations Center		
				BUILDERS FOR	23068 - Ops		
NTS				VP BUILDINGS			
A BlueScope Steel Company				VP BUILDINGS		JOBN0 23-016001-02 DATE 3/14/2024 DRAWNCHECK CAL WSM PAGE 41	
VPC VERSION: 24.1.1				VARCO PRUDEN			



Secondary Part Schedule

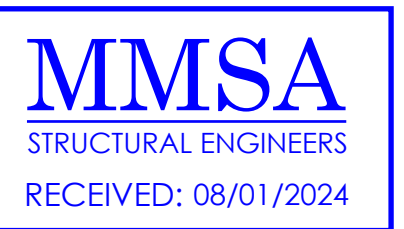
Mark	Part	Thick.	Depth	Lap	Detail
E103	00508CS3008611B0	0.1130	8 1/2"		RSV004, RSV003, RSV002, RSV001
E2	08E1911414DDB01	0.0790	8 1/2"		RS12PA
E28	08C1911417DDB0	0.0600	8 1/2"		RSV004, RSV003, RSV002, RSV001
E31	07C1911417DD00	0.0600	7"		RSV004, RSV003, RSV002, RSV001
E42	00308ES2711414B01	0.0790	8 1/2"		RS12PH, RS12PA
E75	00107CS200041700	0.0600	7"		RSV004, RSV003, RSV002, RSV001
E76	00207CS270241700	0.0600	7"		RSV004, RSV003, RSV002, RSV001
E77	00108CS2702417B0	0.0600	8 1/2"		RSV004, RSV003, RSV002, RSV001
E78	00208CS2000417B0	0.0600	8 1/2"		RSV004, RSV003, RSV002, RSV001
E79	00108HS2702417B01	0.0600	8 1/2"		RS12PF, BR09Y2, BR09W2, RS12PE
E80	00108ES2702414B01	0.0790	8 1/2"		RS12PH, RS12PA
E81	08H1911417DDB01	0.0600	8 1/2"		BR09Y2, BR09W2, RS12PE
E82	00208HS2000417B01	0.0600	8 1/2"		BR09W2, BR09Y2
E83	00208ES2000414B01	0.0790	8 1/2"		RS12PH, RS12PA
E85	08C2407411DDB0	0.1130	8 1/2"		RSV004, RSV003, RSV002, RSV001
E86	08C1911411DDB0	0.1130	8 1/2"		RSV004, RSV003, RSV002, RSV001
E87	00408CS2711411B0	0.1130	8 1/2"		RSV004, RSV003, RSV002, RSV001
E88	08E2407414DDB01	0.0790	8 1/2"		RS12PA
E89	08E2206014DHB01	0.0790	8 1/2"		RS12PA
E91	08C2604411DDB0	0.1130	8 1/2"		RSV004, RSV003, RSV002, RSV001
E92	08E2206011DHB01	0.1130	8 1/2"		RS12PA
E93	08E2604411DDB01	0.1130	8 1/2"		RS12PA
P127	00108ZS3102414B0	0.0790	8 1/2"	3'-10 1/2"	RS02T1, RS01T1
P128	00208ZS3102411B0	0.1130	8 1/2"	3'-10 1/2"	RS02T1, RS01T1
P129	08Z211141611B0	0.0680	8 1/2"	10 1/2"	RS01T1
P131	00308ZS2100416B0	0.0680	8 1/2"	10 1/2"	RS02T1, RS01T1
P136	00708ZS2811414B0	0.0790	8 1/2"	10 1/2"	RS01T1
P139	01308ZS071121700	0.0600	8 1/2"		RS70A4, RS01TD
P155	08Z340441555B0	0.0730	8 1/2"	3'-10 1/2"	RS01T1
P156	08Z340441755B0	0.0600	8 1/2"	3'-10 1/2"	RS01T1
P158	08Z3010413B5B0	0.0880	8 1/2"	3'-10 1/2"	RS01T1, RS01TD
P181	01008ZS2811412B0	0.0980	8 1/2"	10 1/2"	RS02T1, RS01T1
P188	08Z320441744B0	0.0600	8 1/2"	2'-10 1/2"	RS01T1
P190	01808ZS3104516B0	0.0680	8 1/2"	3'-10 1/2"	RS01T1, RS70A4
P206	08Z340441355B0	0.0880	8 1/2"	3'-10 1/2"	RS01T1
P220	08Z221141522B0	0.0730	8 1/2"	1'-4 1/2"	RS01T1
P226	08Z231141533B0	0.0730	8 1/2"	1'-10 1/2"	RS01T1
P272	02408ZS130511700	0.0600	8 1/2"	10 1/2"	RS01T1, RS70A4
P28	08Z221141722B0	0.0600	8 1/2"	1'-4 1/2"	RS01T1
P283	01208ZS3101311B0	0.1130	8 1/2"	3'-10 1/2"	RS01T1
P296	00408ZS2700314B0	0.0790	8 1/2"	2'-10 1/2"	RS01T1, RS70A4
P3	08Z211141711B0	0.0600	8 1/2"	10 1/2"	RS01T1
P306	08Z300741244B0	0.0980	8 1/2"	2'-10 1/2"	RS01T1
P307	08Z300741644B0	0.0680	8 1/2"	2'-10 1/2"	RS01T1
P319	08Z340441455B0	0.0790	8 1/2"	3'-10 1/2"	RS01T1
P328	08Z231141333B0	0.0880	8 1/2"	1'-10 1/2"	RS01T1
P340	02008ZS2700317B0	0.0600	8 1/2"	2'-10 1/2"	RS70A4, RS01T1
P352	00508ZS3104515B0	0.0730	8 1/2"	3'-10 1/2"	RS01T1, RS70A4
P354	00808ZS2811413B0	0.0880	8 1/2"	10 1/2"	RS01T1
P355	00908ZS2811411B0	0.1130	8 1/2"	10 1/2"	RS02T1, RS01T1
P356	01108ZS2811413B0	0.0880	8 1/2"	10 1/2"	RS02T1, RS01T1
P357	01408ZS131111600	0.0680	8 1/2"	1'-4 1/2"	RS70A4, RS01T1
P358	01508ZS1905016A0	0.0680	8 1/2"	1'-10 1/2"	RS70A4, RS01T1
P359	01608ZS2105417B0	0.0600	8 1/2"	1'-4 1/2"	RS70A4, RS01T1
P360	01708ZS2700313B0	0.0880	8 1/2"	2'-10 1/2"	RS01T1, RS70A4
P361	01908ZS3300611B0	0.1130	8 1/2"	3'-10 1/2"	RS01T1, RS70A4
P362	08Z320441644B0	0.0680	8 1/2"	2'-10 1/2"	RS01T1

Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
P363	02108ZS3104516B0	0.0680	8 1/2"	3'-10 1/2"	RS70A4, RS01T1
P364	02208ZS3300617B0	0.0600	8 1/2"	3'-10 1/2"	RS70A4, RS01T1
P365	02308ZS071121700	0.0600	8 1/2"		RS01TD, RS70A4
P366	02508ZS1905016A0	0.0680	8 1/2"	1'-10 1/2"	RS01T1, RS70A4
P367	02608ZS2111416B0	0.0680	8 1/2"	1'-10 1/2"	RS01T1, RS70A4
P369	02908ZS3210311B0	0.1130	8 1/2"	3'-10 1/2"	RS01T1
P37	08Z300741744B0	0.0600	8 1/2"	2'-10 1/2"	RS01T1
P370	03008ZS3504313B0	0.0880	8 1/2"	3'-10 1/2"	RS01T1
P371	03108ZS130511700	0.0600	8 1/2"	10 1/2"	RS70A4, RS01T1
P372	03208ZS1905017A0	0.0600	8 1/2"	1'-10 1/2"	RS70A4, RS01T1
P373	03308ZS2111417B0	0.0600	8 1/2"	1'-10 1/2"	RS70A4, RS01T1
P374	03408ZS2811414B0	0.0790	8 1/2"	10 1/2"	RS01T1
P375	03508ZS2700317B0	0.0600	8 1/2"	2'-10 1/2"	RS70A4, RS01T1
P376	03608ZS3104515B0	0.0730	8 1/2"	3'-10 1/2"	RS70A4, RS01T1
P377	03708ZS3300613B0	0.0880	8 1/2"	3'-10 1/2"	RS70A4, RS01T1
P40	08Z221141622B0	0.0680	8 1/2"	1'-4 1/2"	RS01T1
P41	08Z231141633B0	0.0680	8 1/2"	1'-10 1/2"	RS01T1
P42	08Z231141733B0	0.0600	8 1/2"	1'-10 1/2"	RS01T1
P44	08Z300741444B0	0.0790	8 1/2"	2'-10 1/2"	RS01T1

Shape Name = GARAGE BAYS

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05/28/2024  
BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

MODIFIED IN AUTOCAD

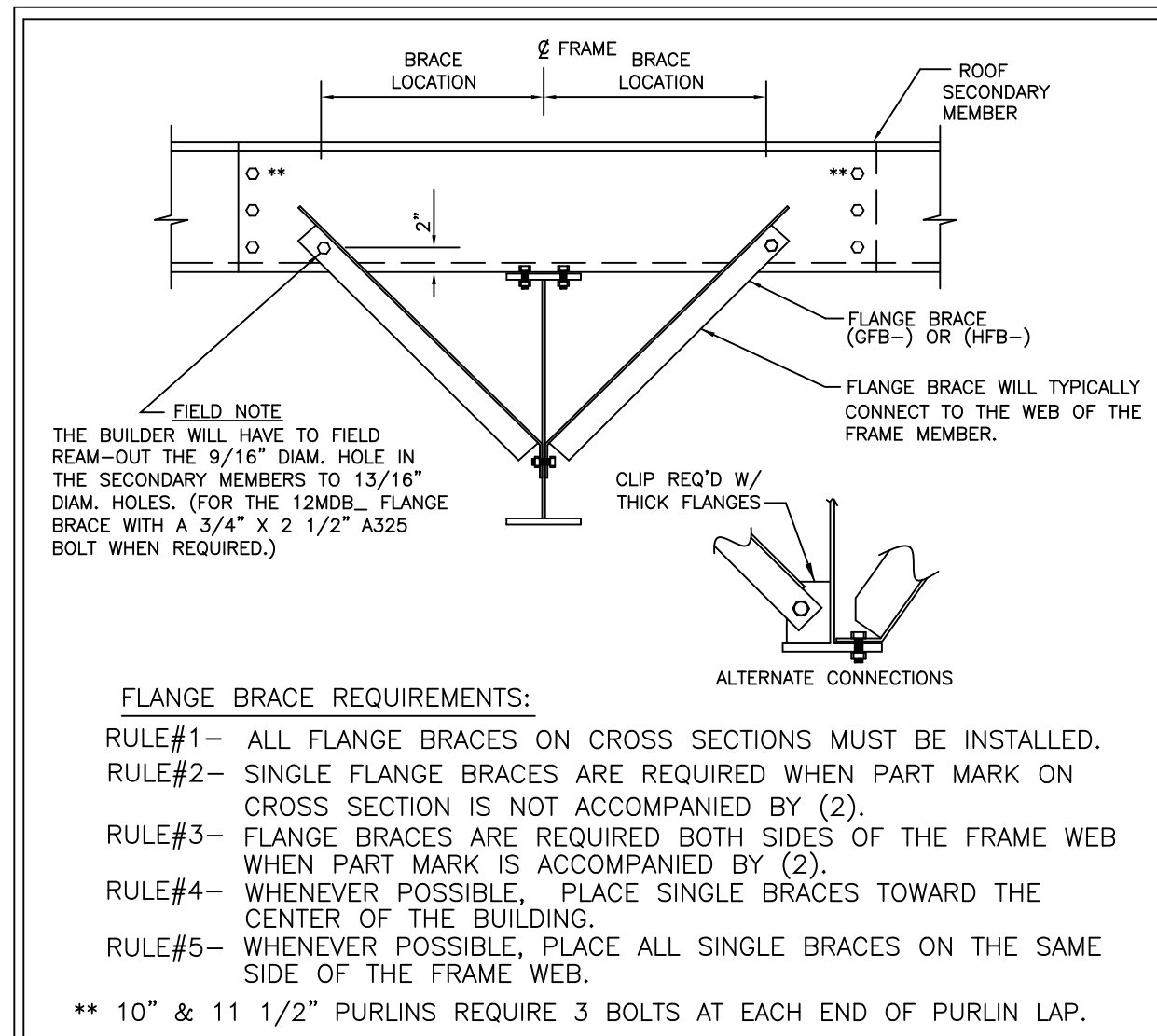
W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.  
2. FLANGE BRACES ARE AN INTEGRAL PART OF THE STABILITY OF THE STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION  
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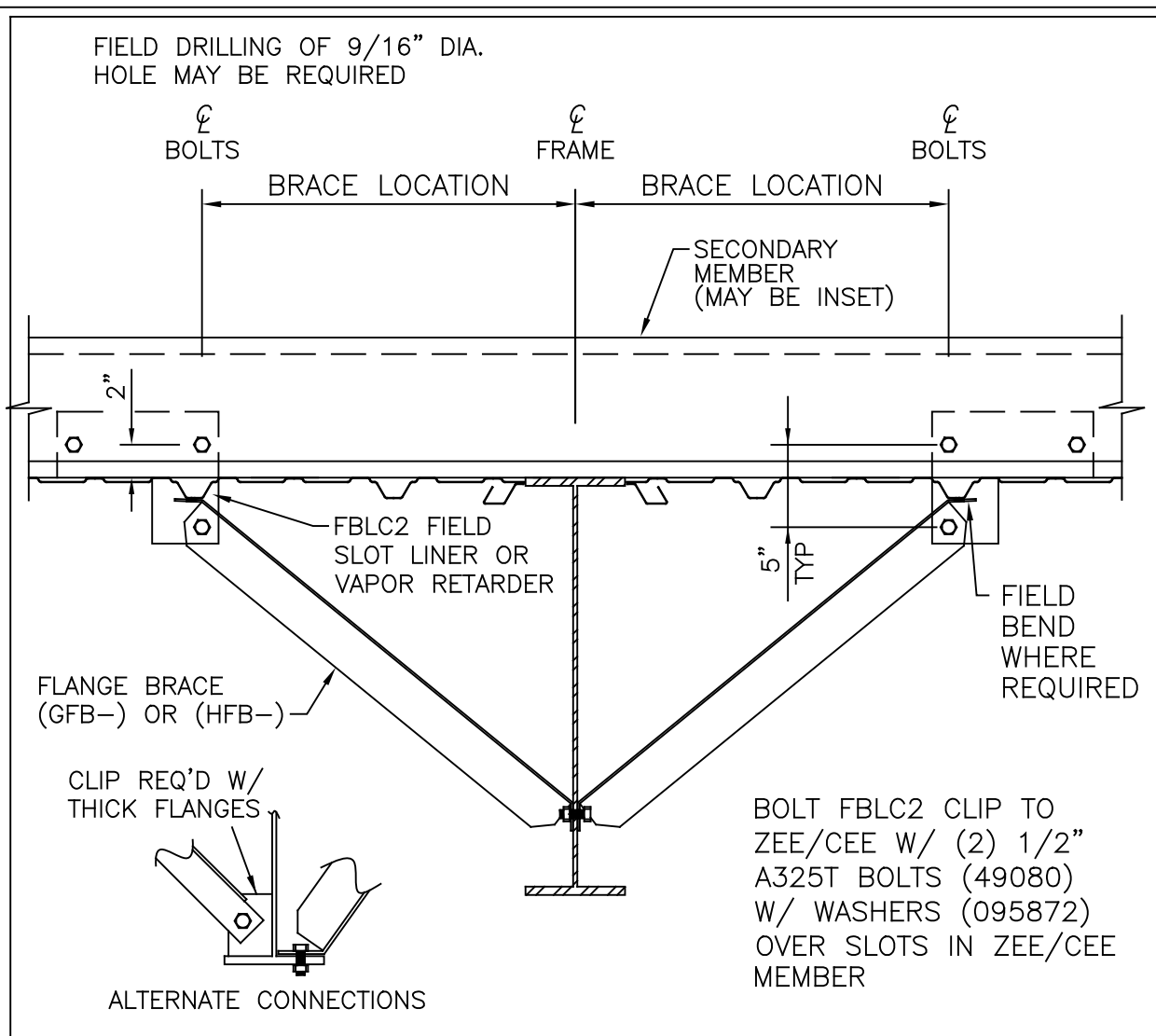
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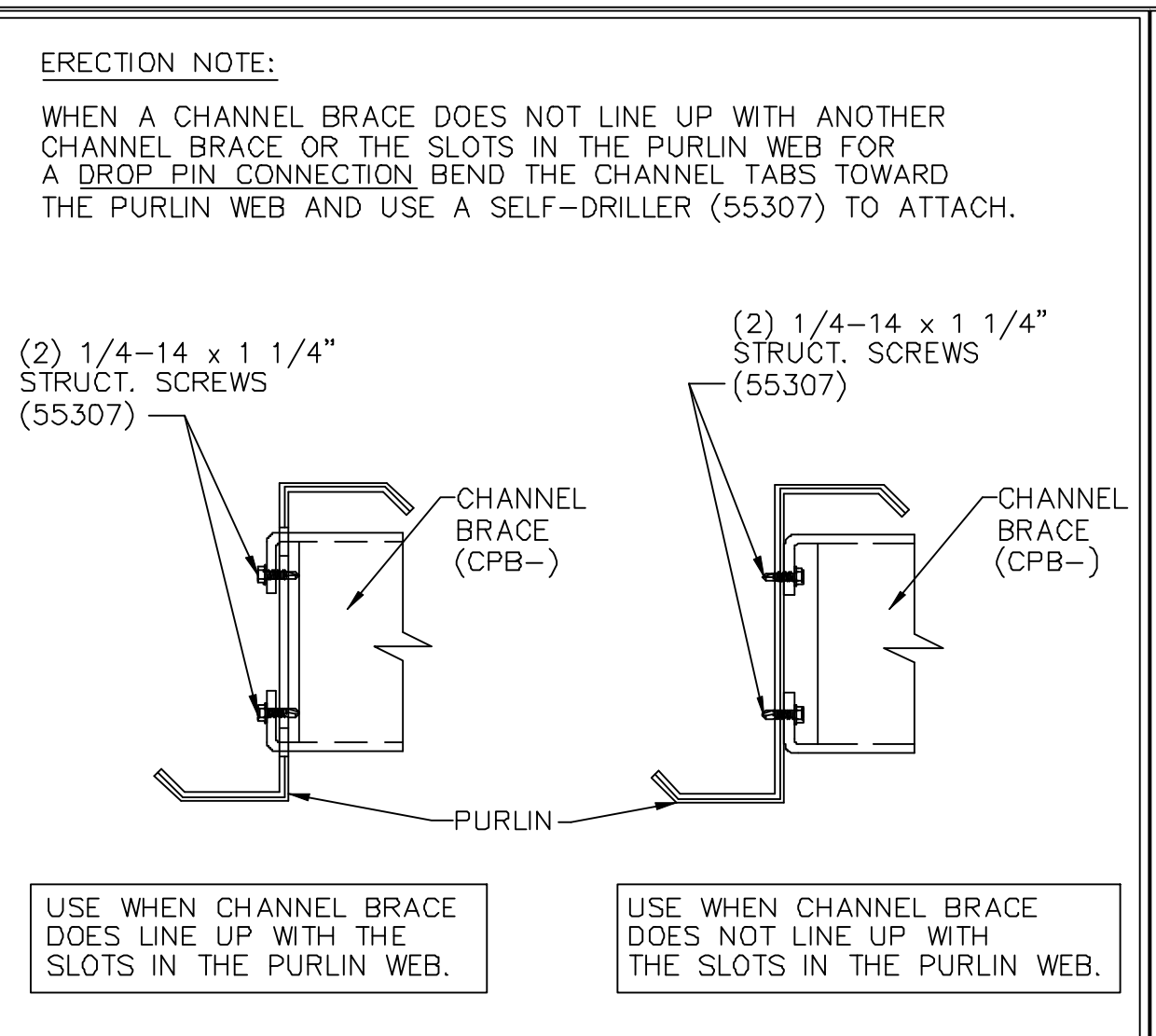
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REV	DATE	BY	DESCRIPTION	BUILDER	JOBNO
3200 Players Club Circle Memphis TN 38125				Lemartec Corporation	23-016001-02
				Duke Energy	DATE 3/14/2024
				Dunn, North Carolina	DRAWN/CHECK CAL WSM
				Duke Energy Dunn Operations Center	PAGE 41
NTS				BUILDERS FOR 23068 - Ops	



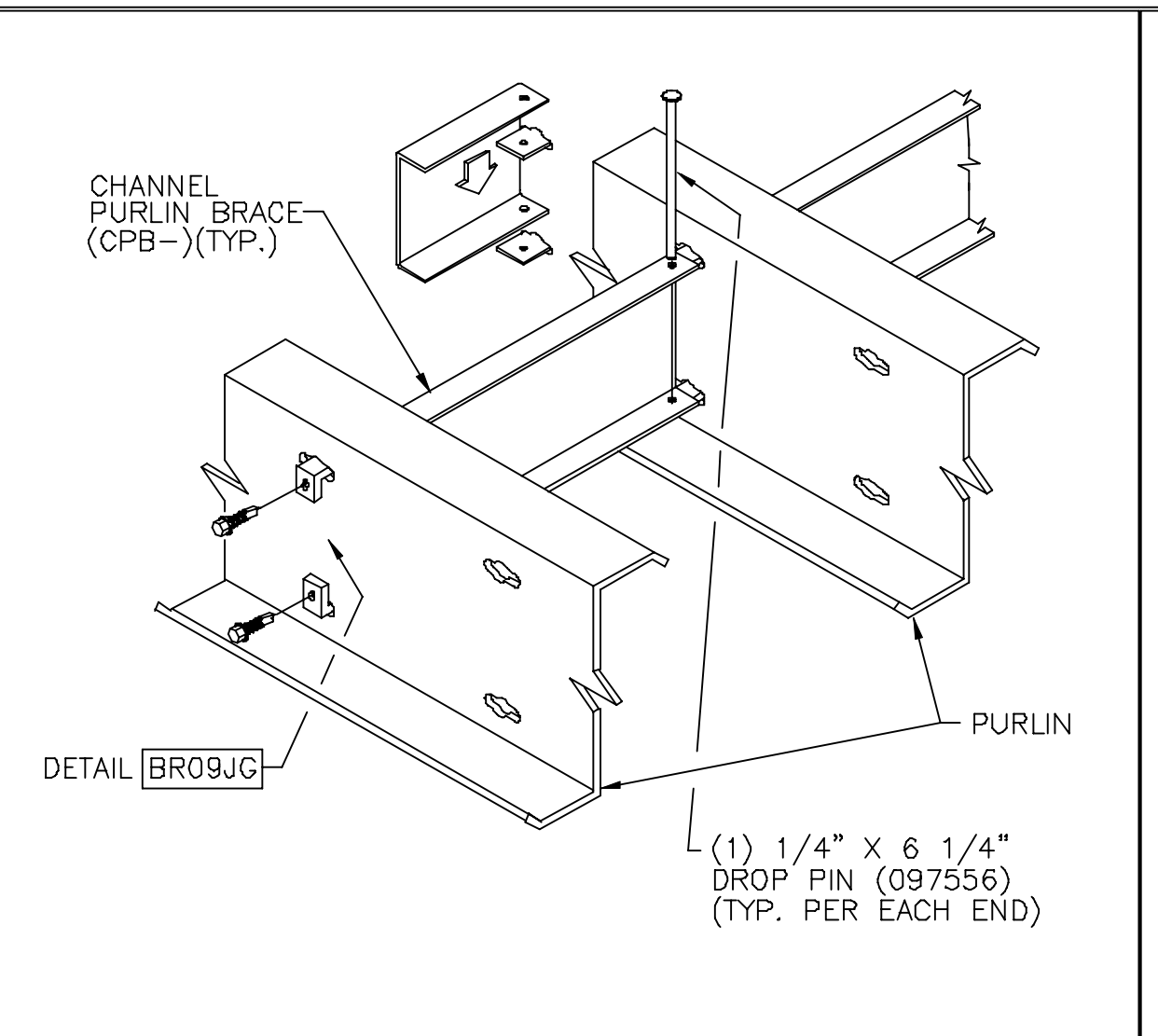
REV. DATE: 05/08/18 REV. NO. 02  
 TYPICAL FLANGE BRACE CONNECTIONS  
 BR06AE CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN



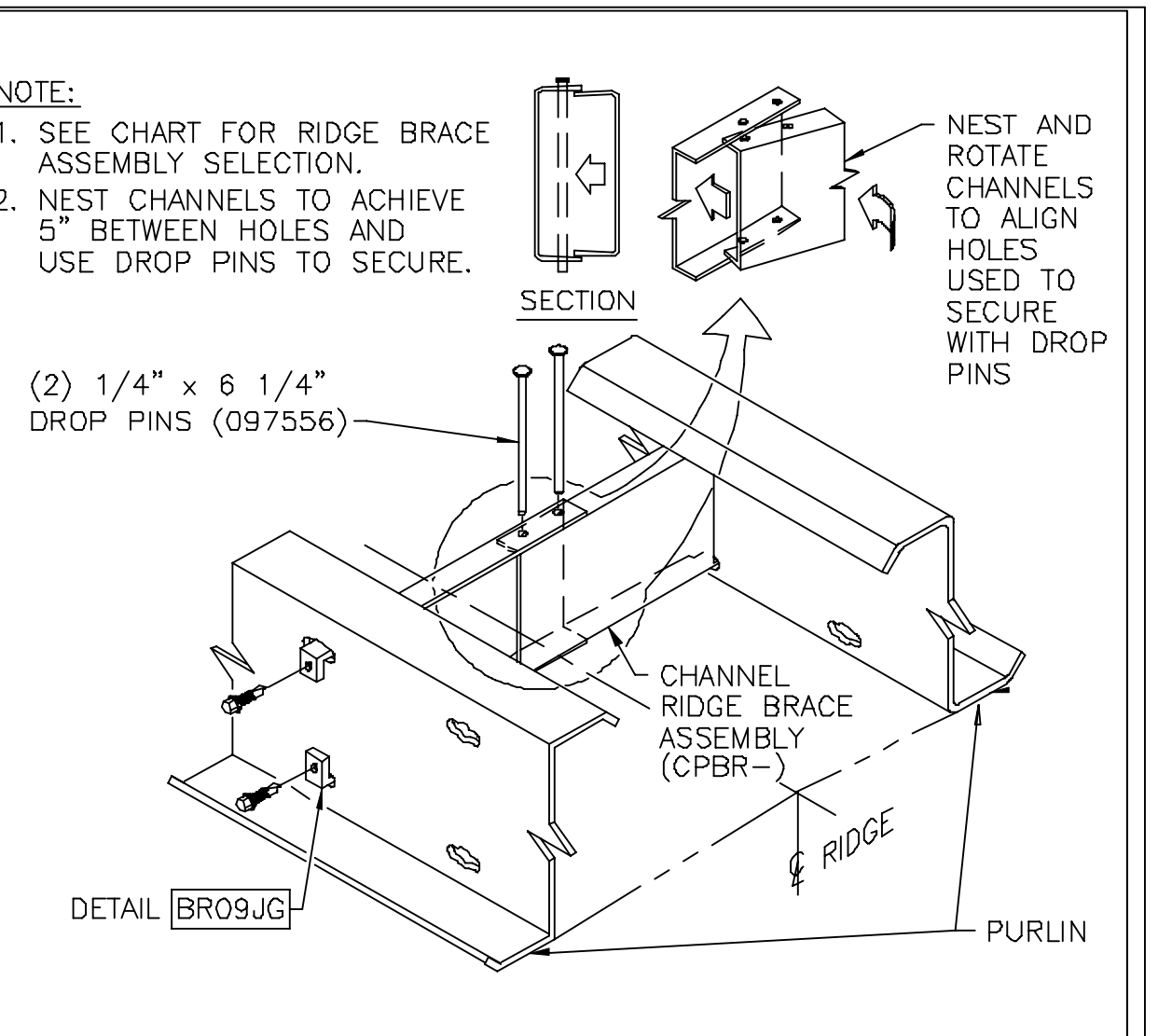
REV. DATE: 06/09/22 REV. NO. 04  
 ROOF/WALL FLANGE BRACING  
 BR06J3 PURLIN/GIRT WITH LINER OR INSUL. VAPOR RETARDER



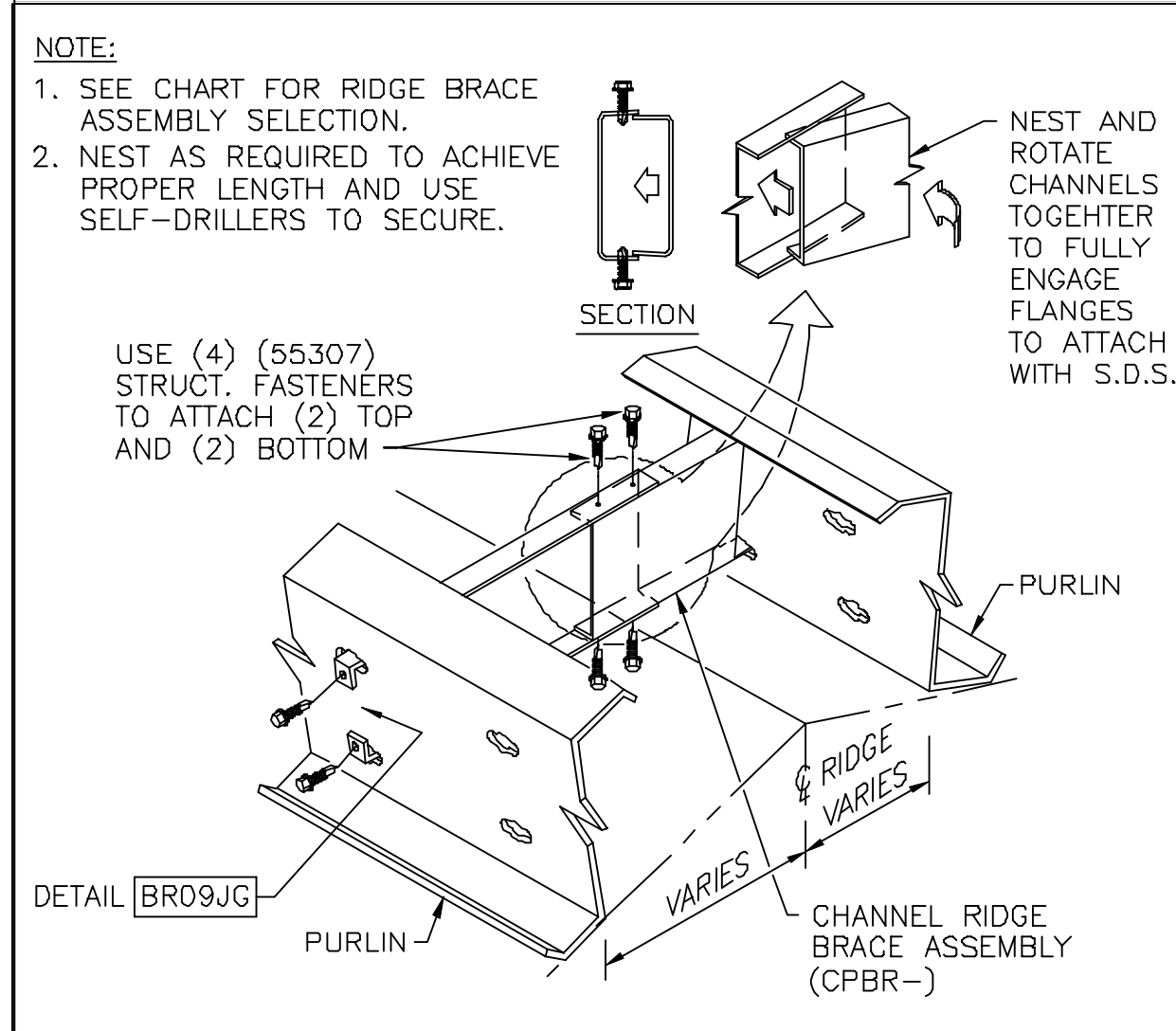
REV. DATE: 04/01/11 REV. NO. 01  
 CHANNEL BRACE ENDING AT PURLIN WEB  
 BR09JG SELF-DRILLER WITH BENT TABS



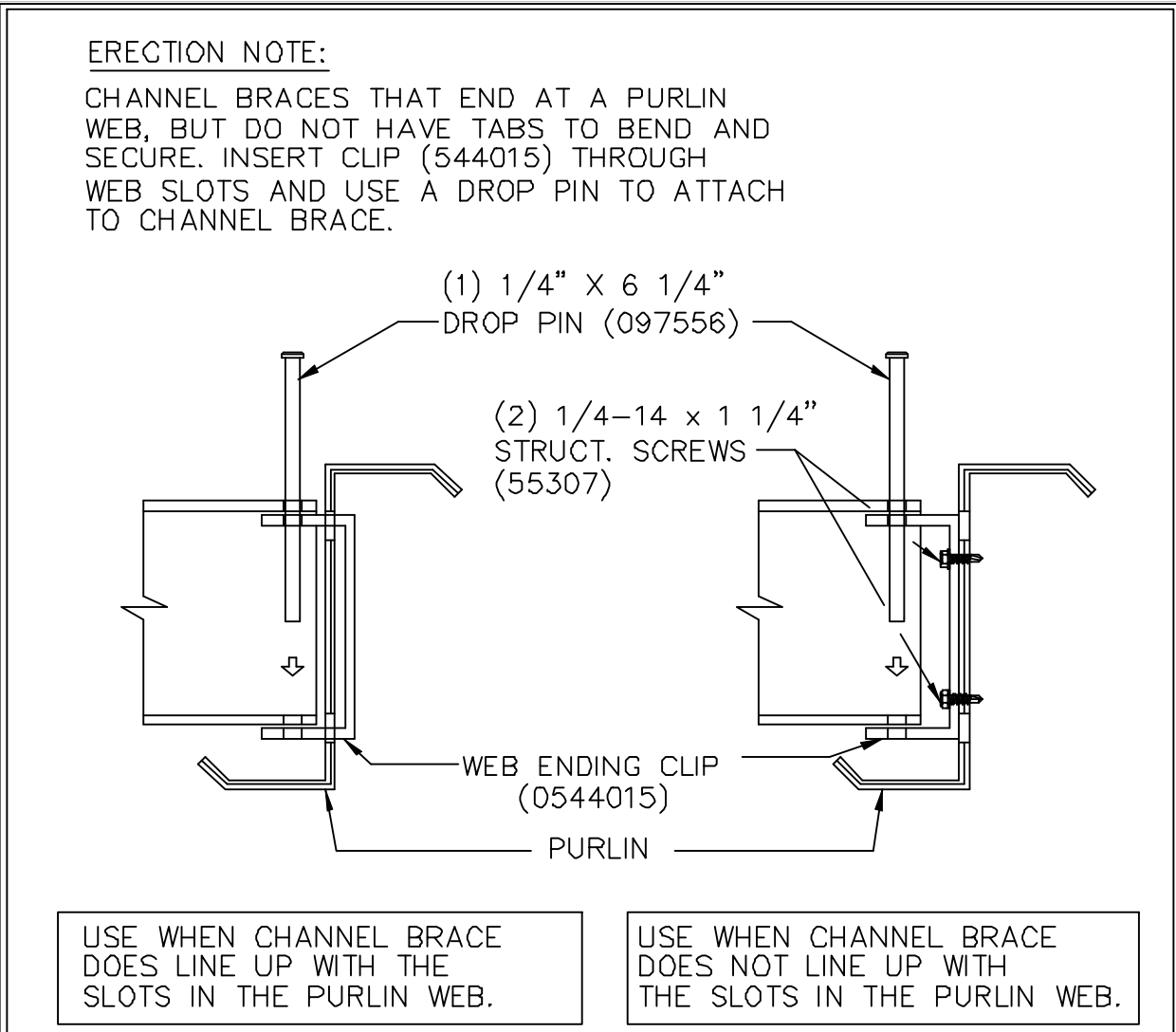
REV. DATE: 07/01/09 REV. NO. 00  
 SINGLE CHANNEL PURLIN BRACE  
 BR09JH ENDING AT PURLIN WEB LOCATION



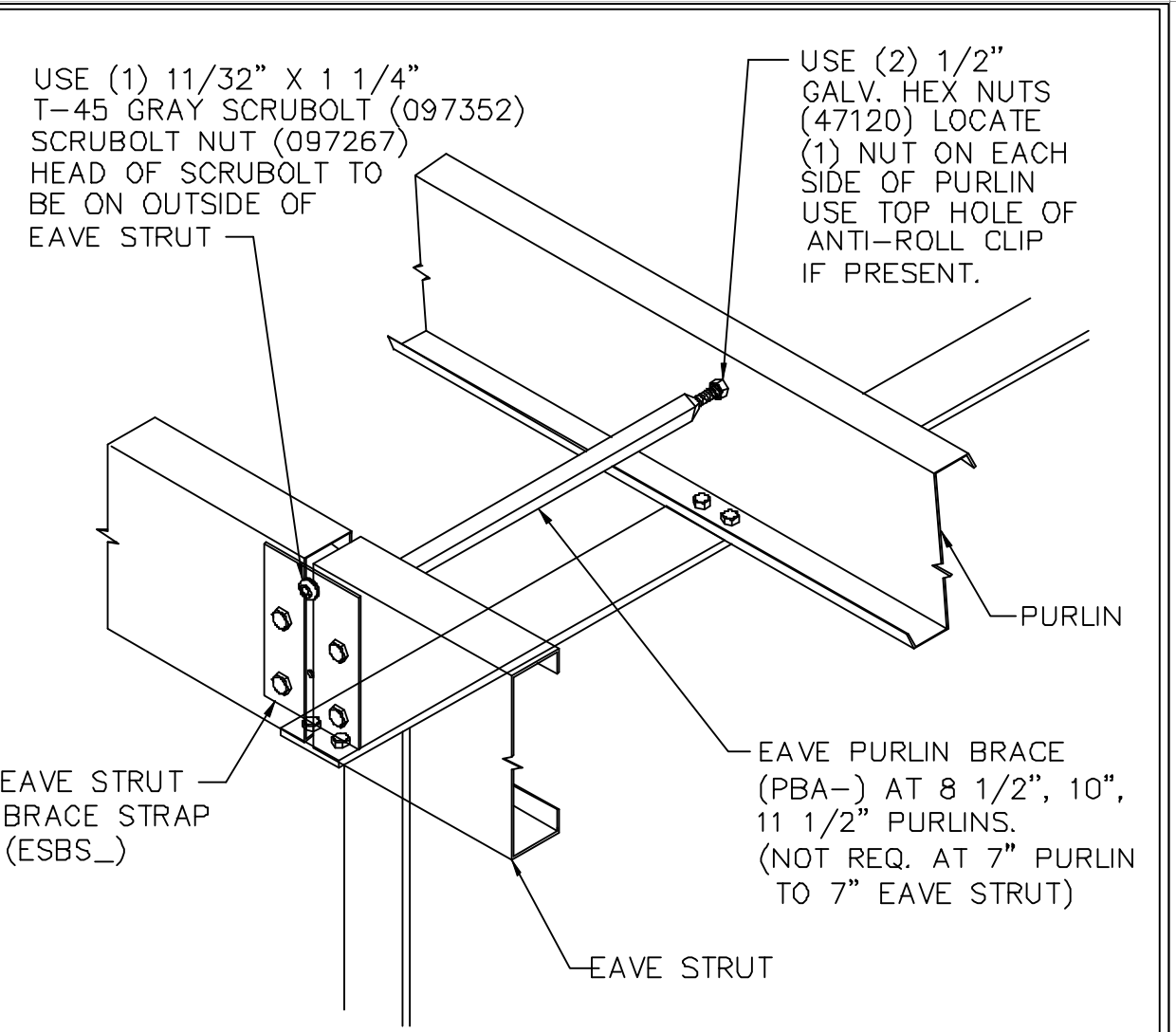
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 CHANNEL RIDGE BRACE ASSEMBLY  
 BR09JK RIDGE BRACE ONLY AT SYMMETRICAL RIDGE



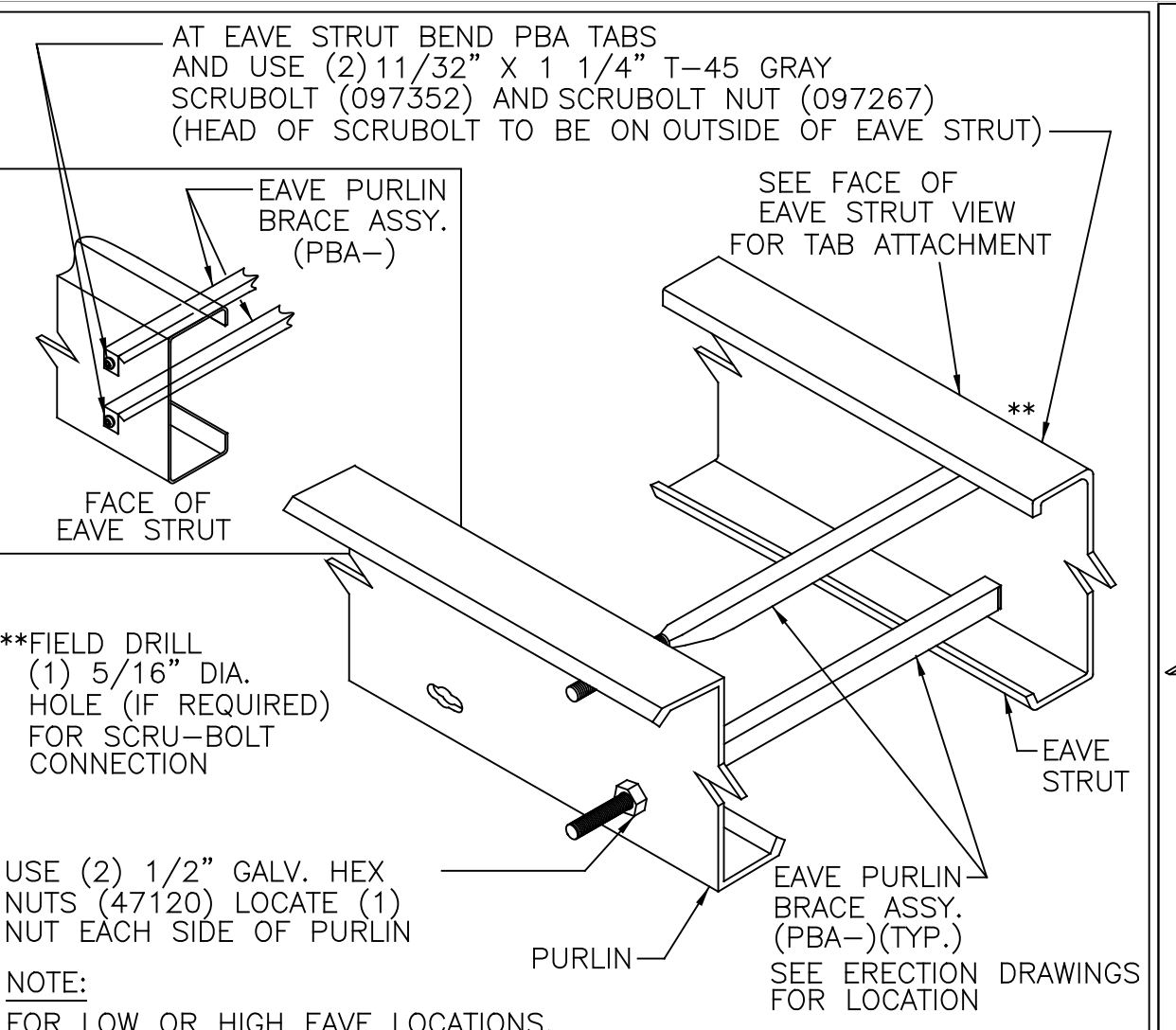
REV. DATE: 07/01/09 REV. NO. 00  
 CHANNEL RIDGE BRACE ASSEMBLY  
 BR09JM RIDGE BRACE ONLY AT UNSYMMETRICAL RIDGE



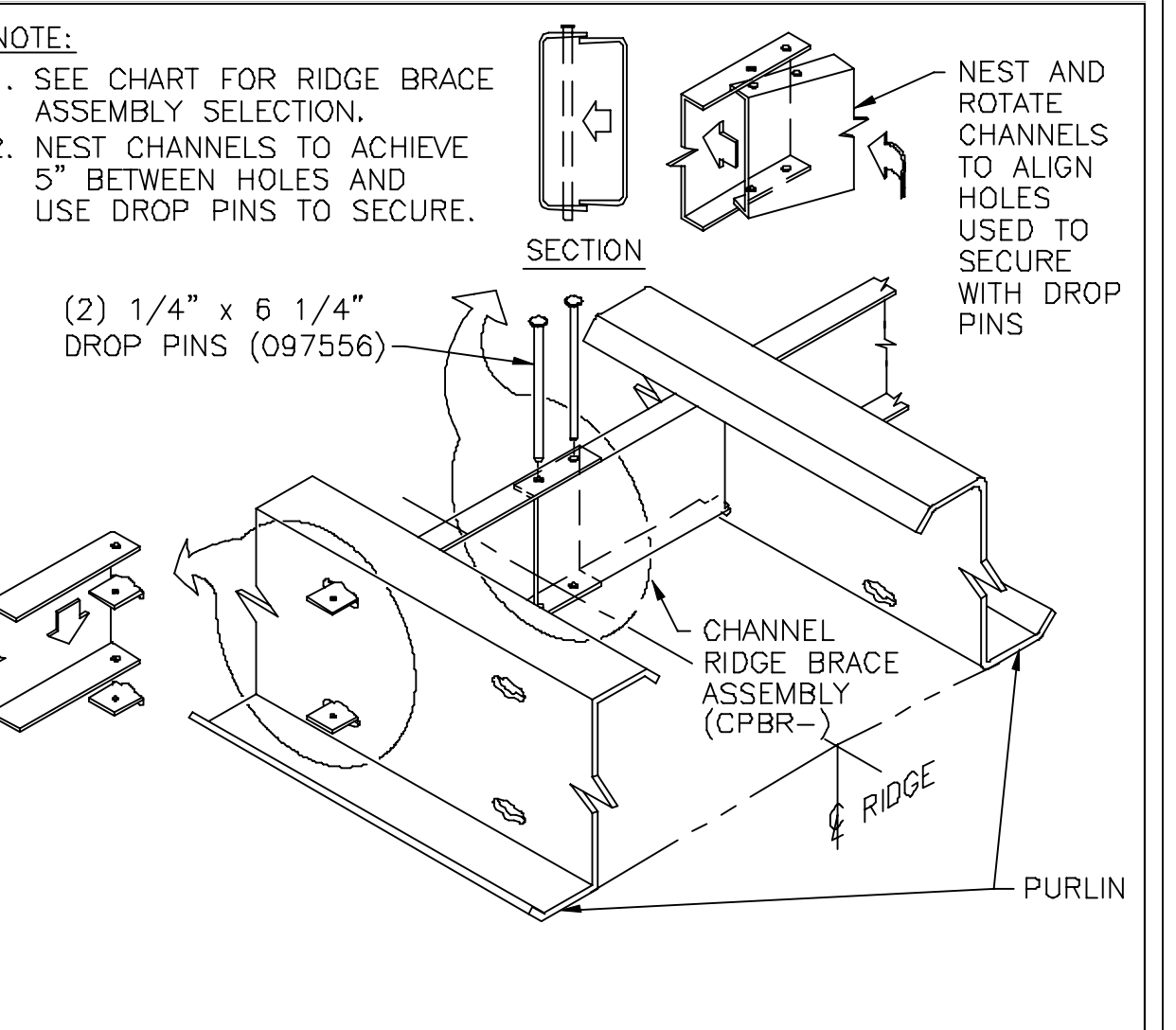
REV. DATE: 04/01/11 REV. NO. 01  
 CHANNEL BRACE ENDING AT PURLIN WEB  
 BR09JR WEB ENDING CLIP WITH DROP PIN



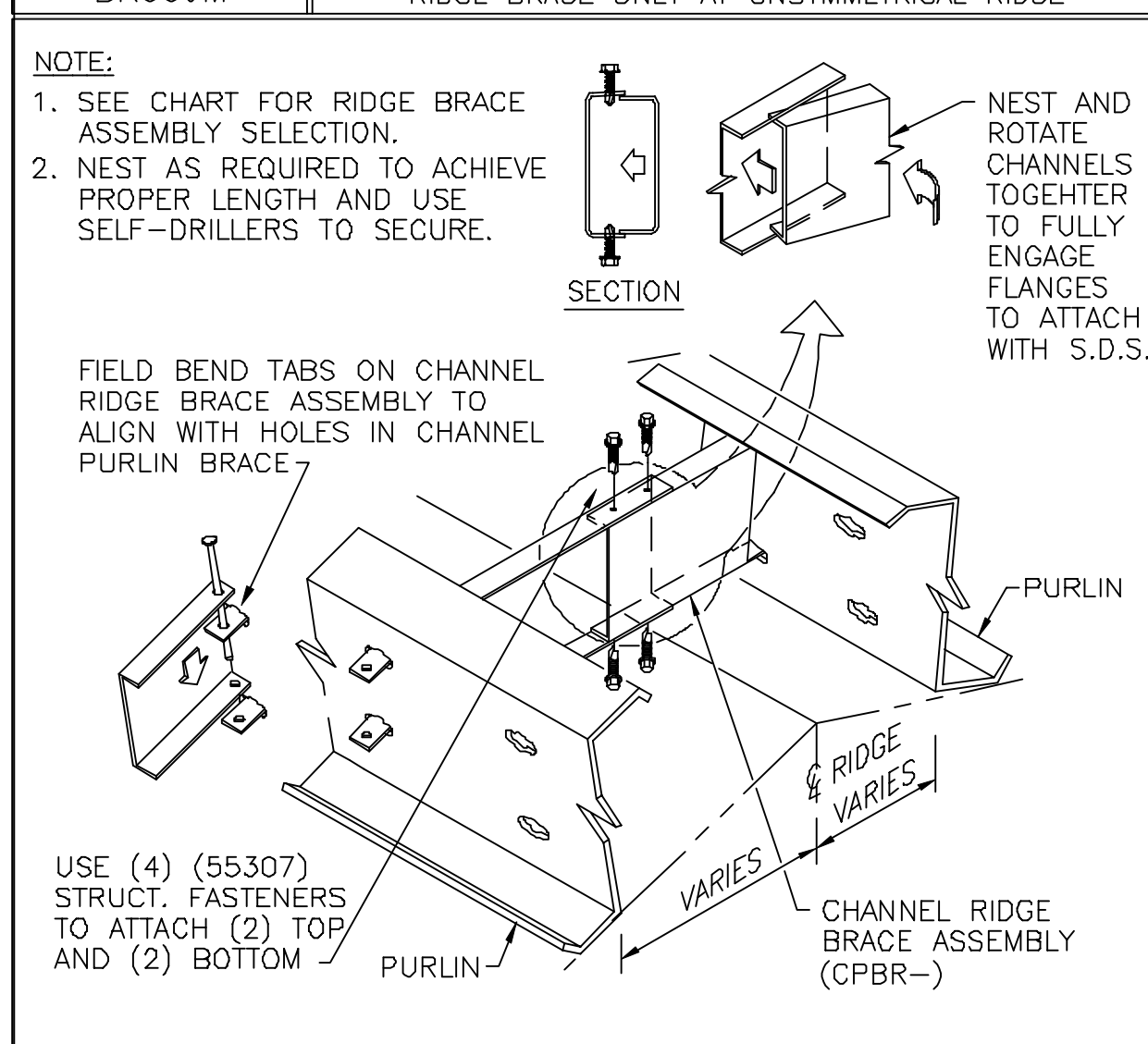
REV. DATE: 07/20/16 REV. NO. 05  
 EAVE BRACE STRAP AND EAVE PURLIN BRACE  
 BR09K2 LOCATED AT EAVE - CENTERLINE OF FRAME



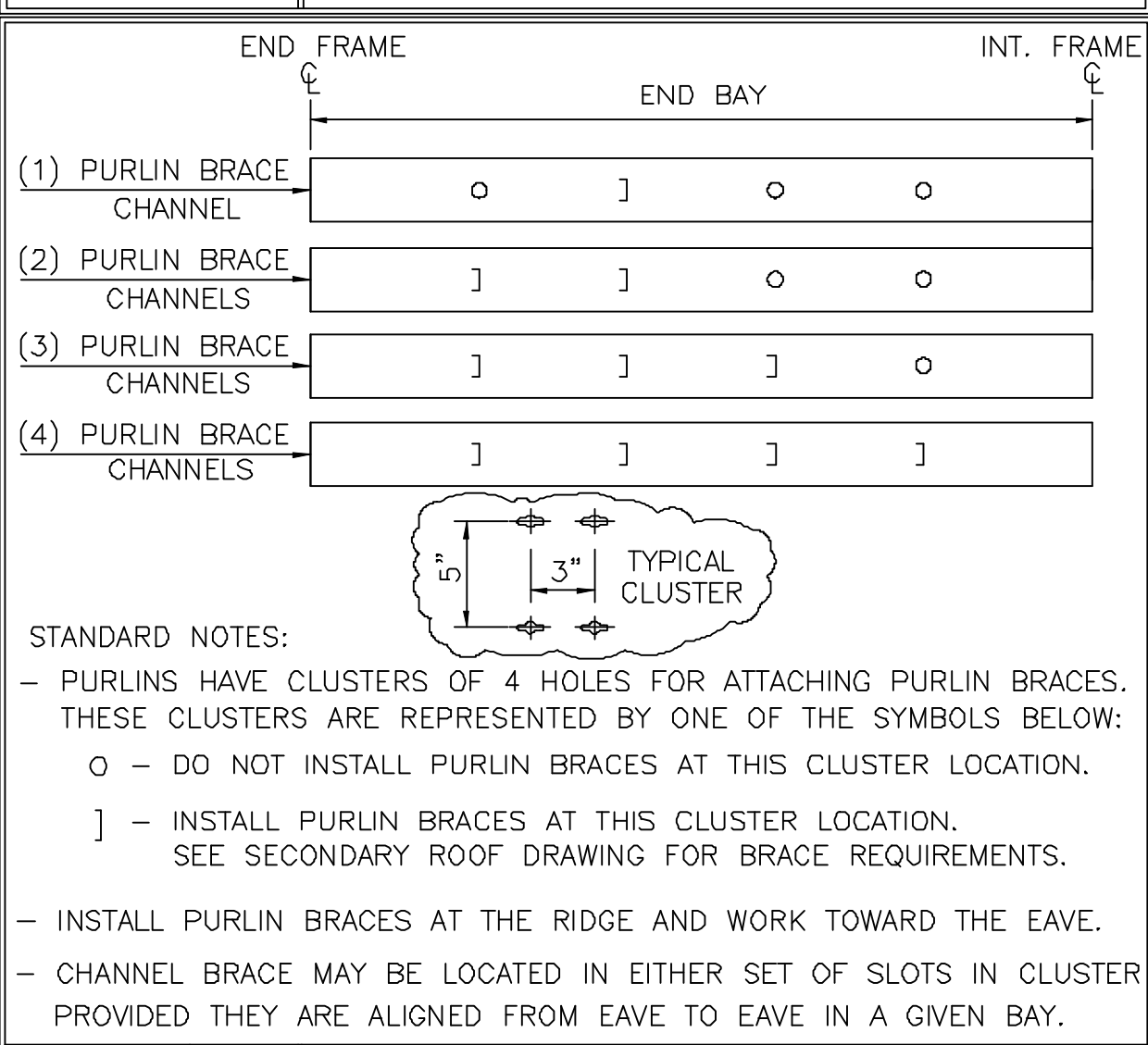
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 EAVE STRUT BRACE  
 BR09K5



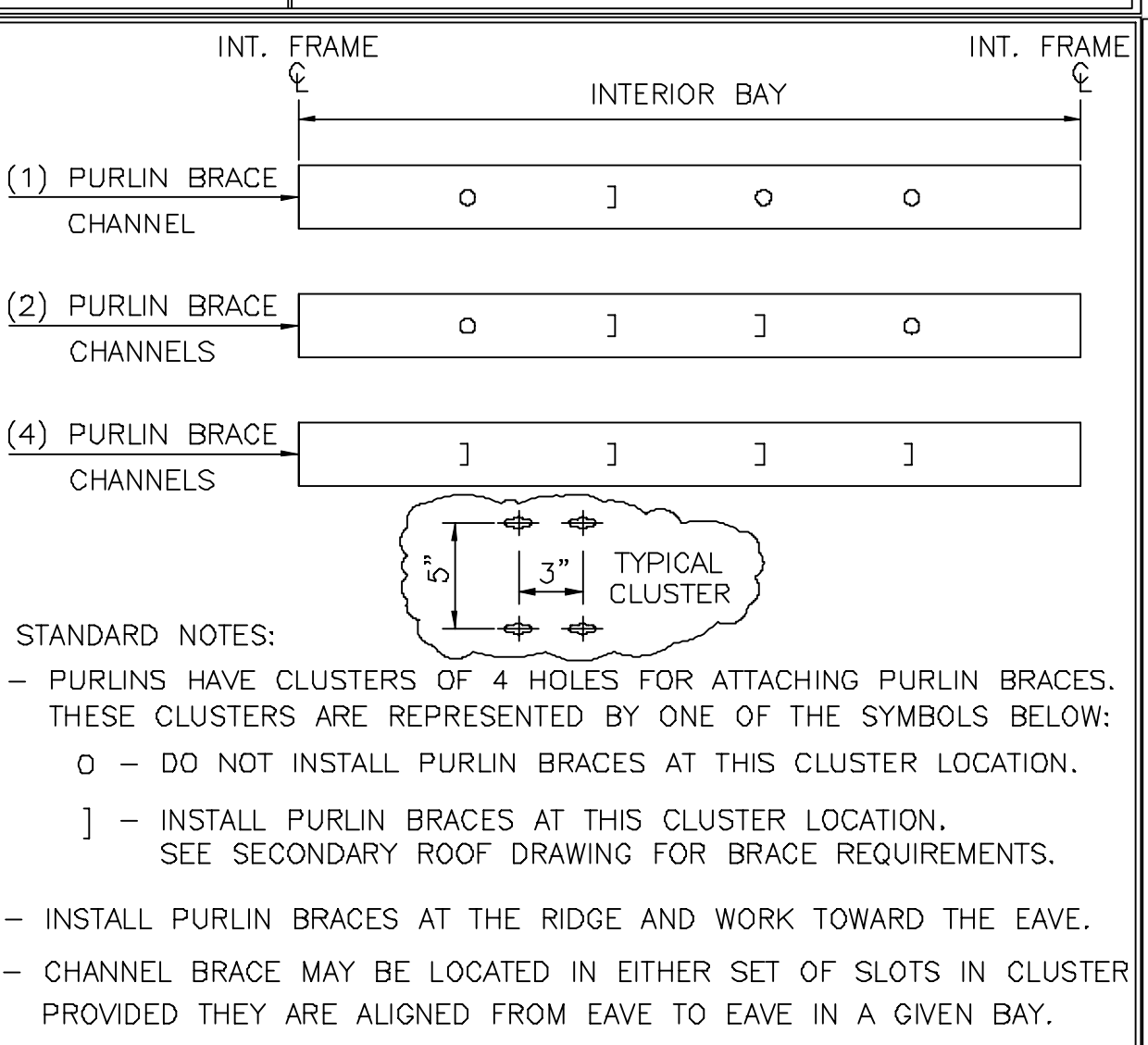
REV. DATE: 07/01/09 REV. NO. 00  
 CHANNEL RIDGE BRACE ASSEMBLY  
 BR09PK RIDGE BRACE ONLY AT SYMMETRICAL RIDGE



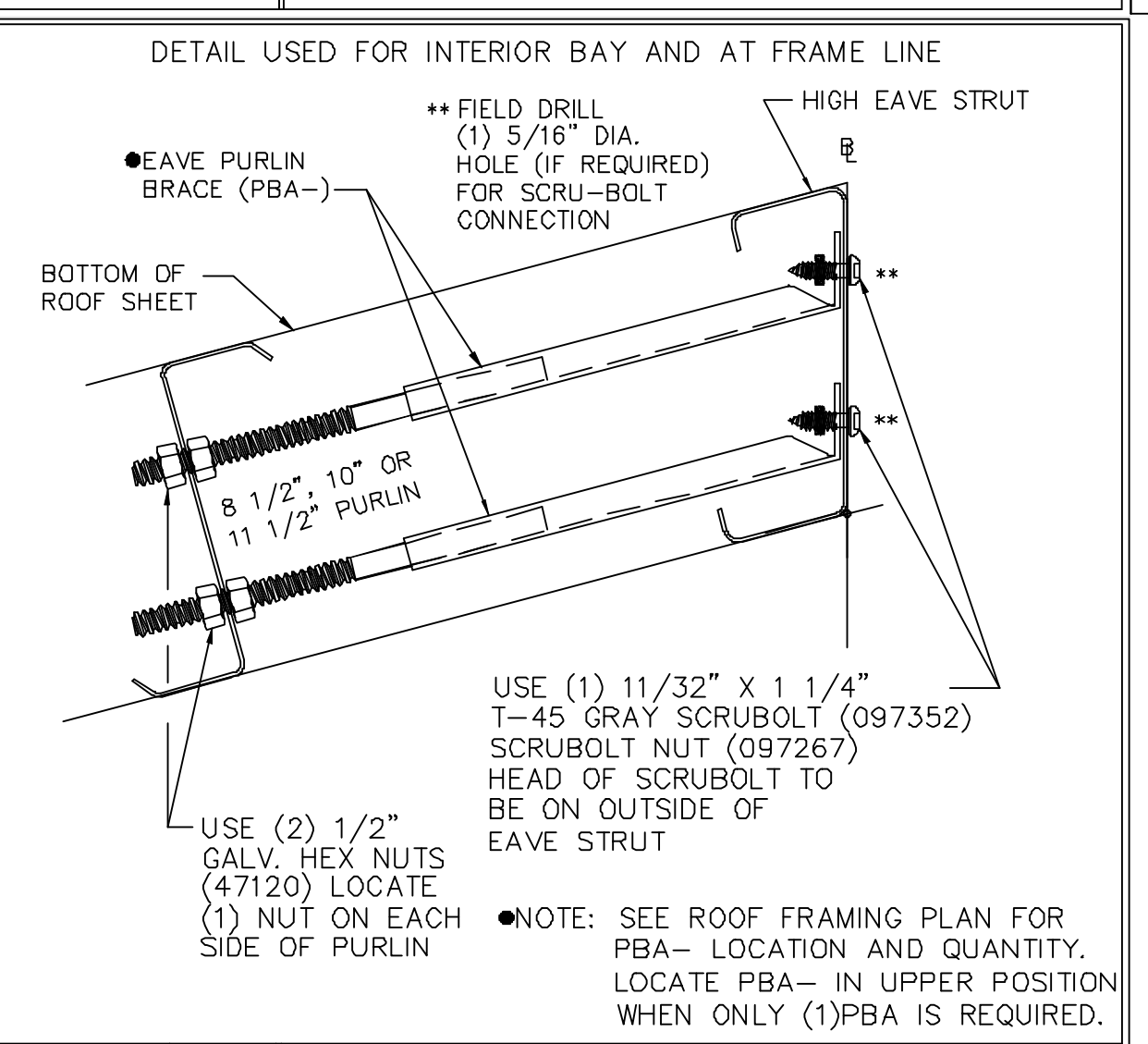
REV. DATE: 07/01/09 REV. NO. 00  
 CHANNEL RIDGE BRACE ASSEMBLY  
 BR09PM RIDGE BRACE ONLY AT UNSYMMETRICAL RIDGE



REV. DATE: 07/01/09 REV. NO. 00  
 PURLIN BRACE CLUSTER LOCATION  
 BR09RY END BAY CHANNEL LOCATION



REV. DATE: 07/01/09 REV. NO. 00  
 PURLIN BRACE CLUSTER LOCATION  
 BR09RZ INTERIOR BAY CHANNEL LOCATION



REV. DATE: 11/26/12 REV. NO. 01  
 HIGH EAVE PURLIN BRACE  
 BR09W2 ALL WALL PANEL TYPE

1. UNLESS NOTED, USE 1/2 X 1 1/2 A325 BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.  
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REV	DATE	BY	DESCRIPTION

**FOR CONSTRUCTION**

**MMSA**  
STRUCTURAL ENGINEERS  
RECEIVED: 08/01/2024

**VP BUILDINGS**  
VARCO PRUDEN  
A BlueScope Steel Company

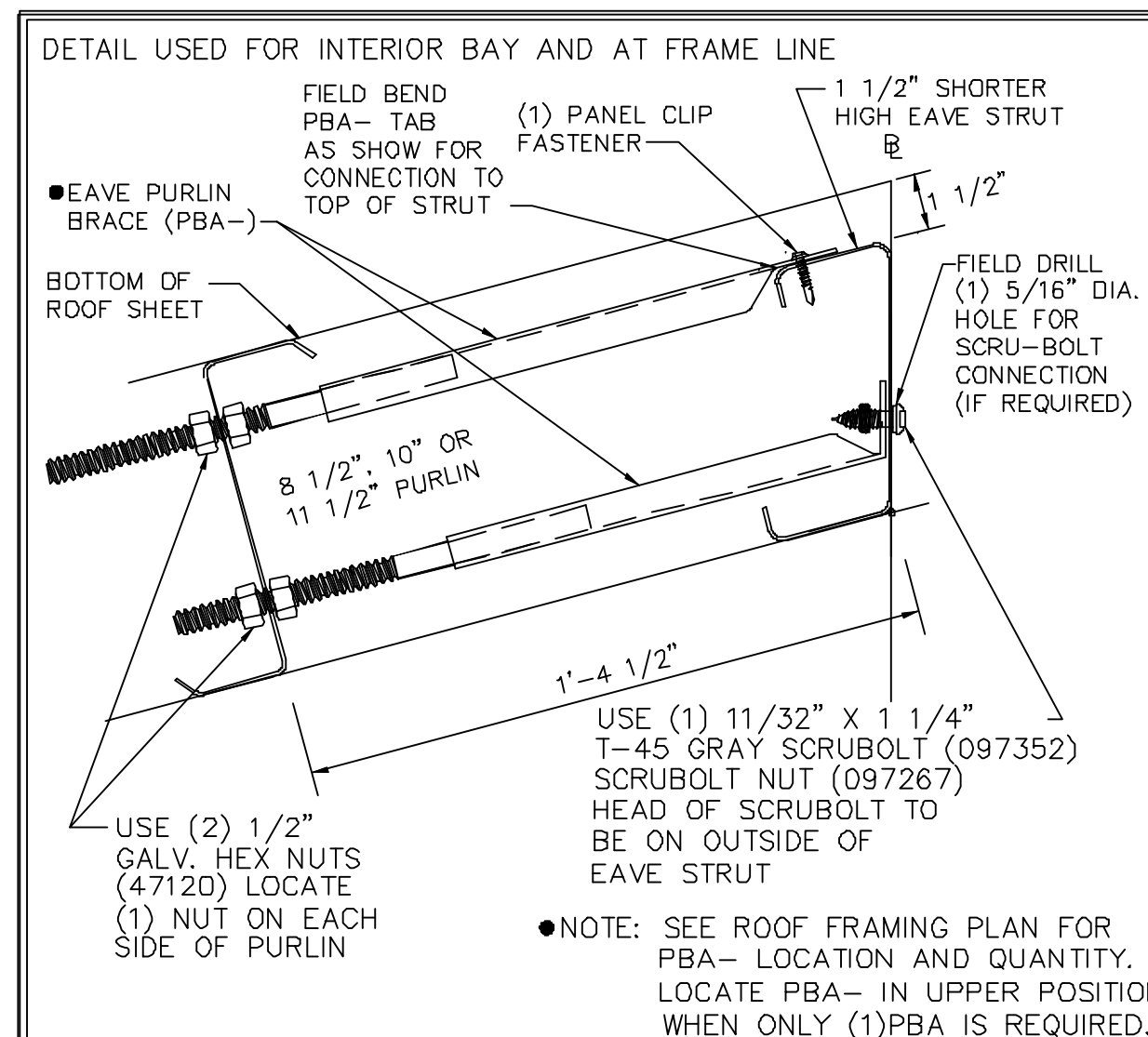
FILENAME: Duke Energy - Ops

23068 - Ops

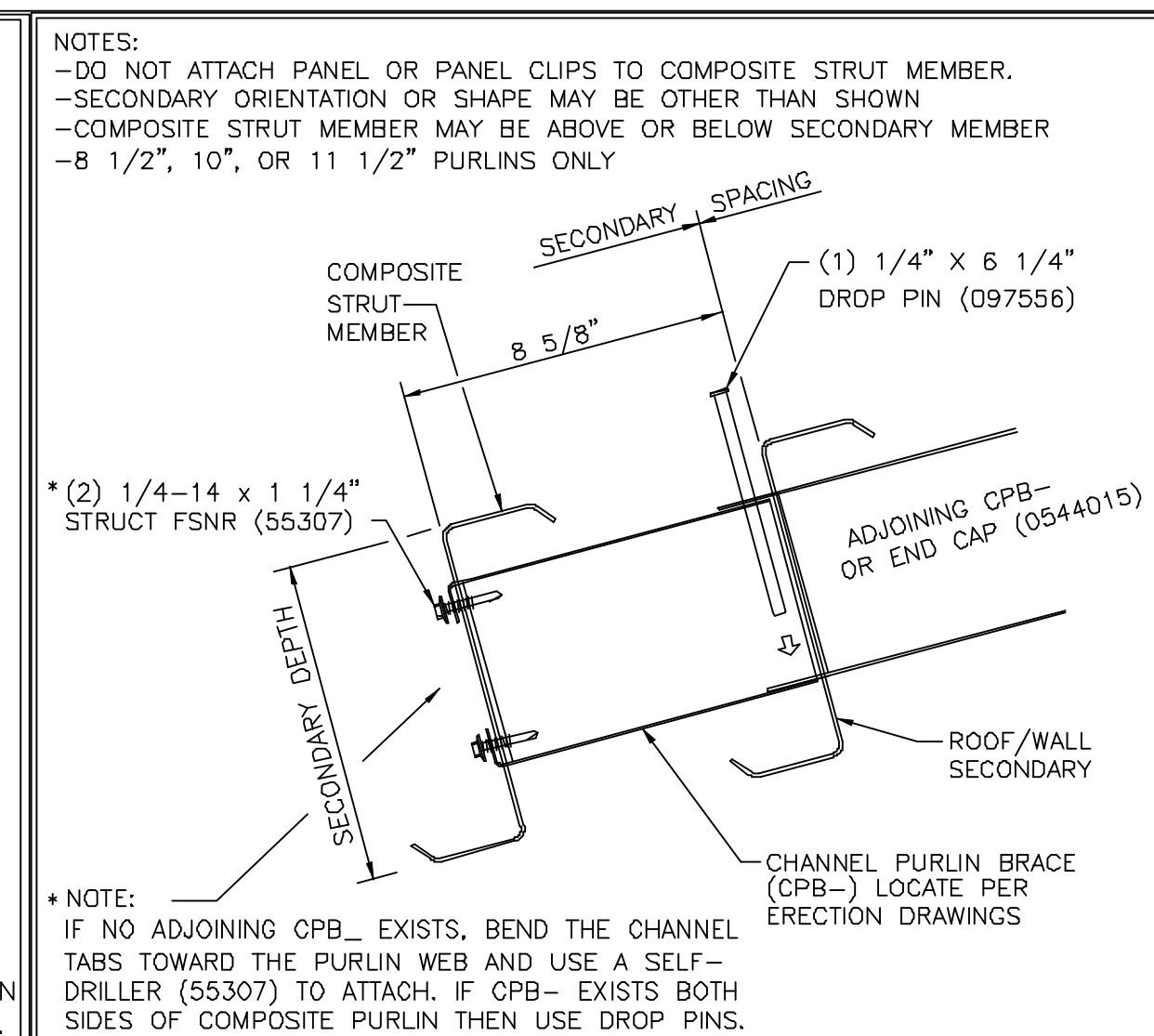
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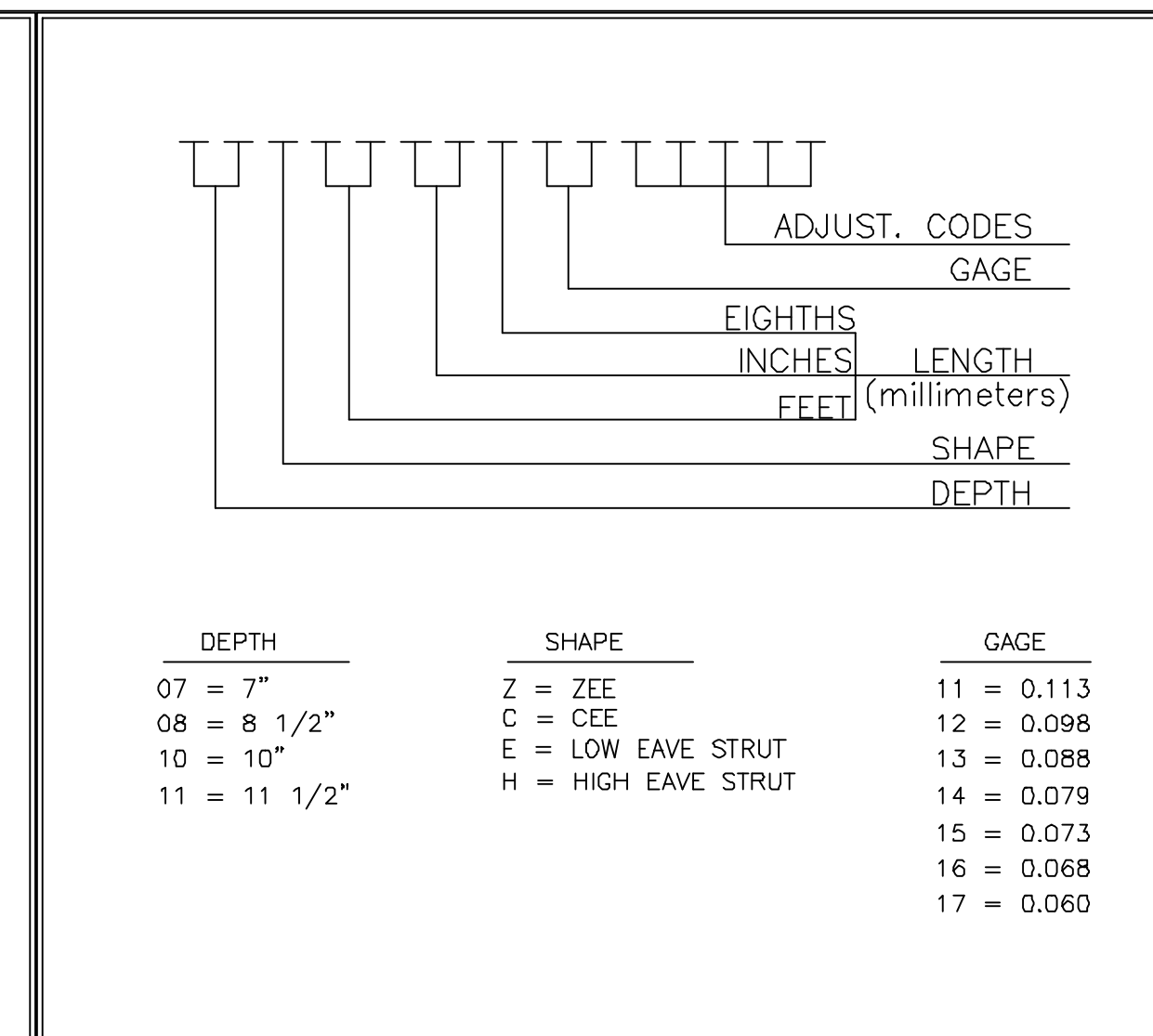
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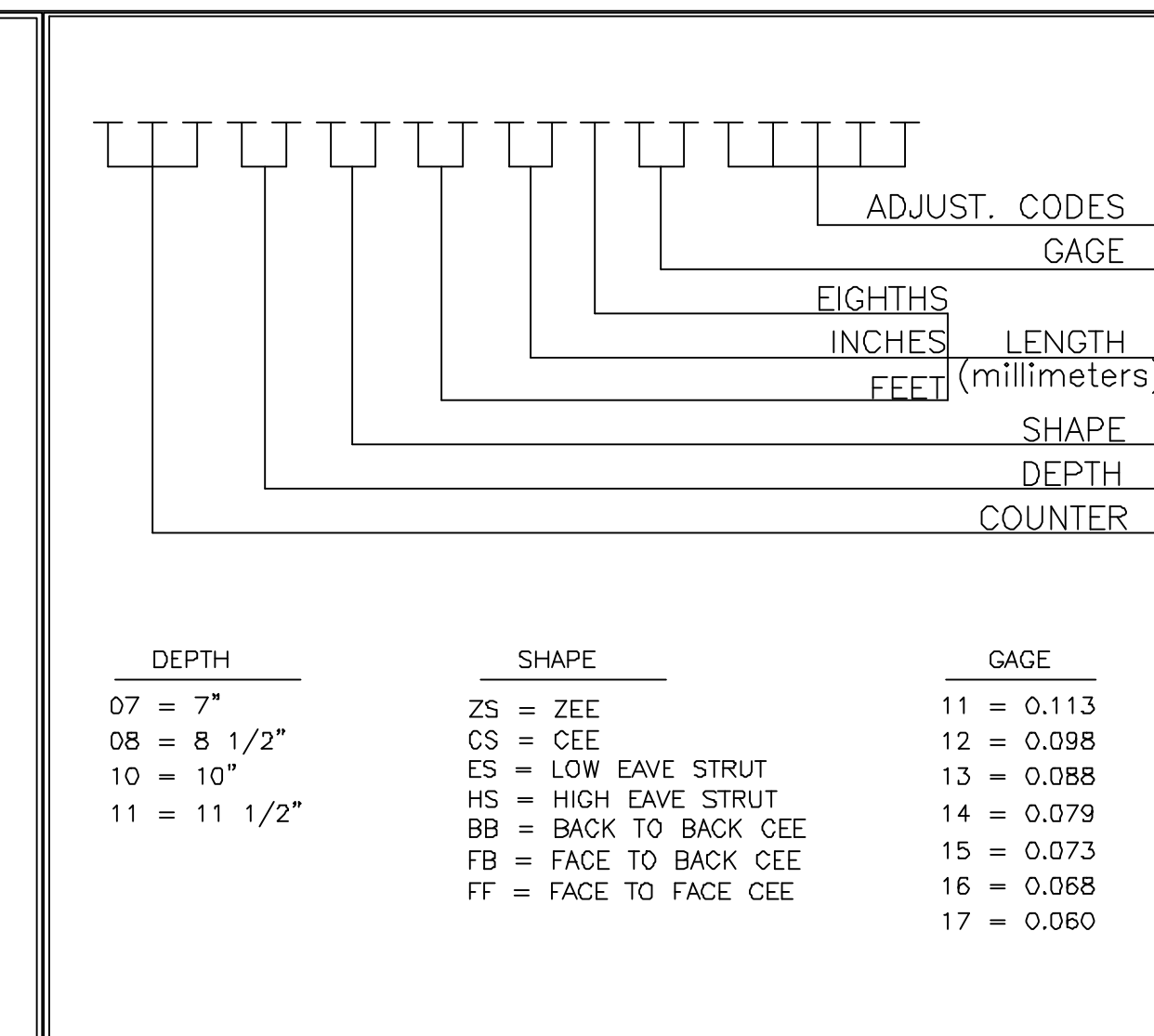
REV. DATE: 04/26/16 | REV. NO. 02 | **SSR/SLR HIGH EAVE STRUT**  
ALL WALL PANEL TYPE | BR09Y2



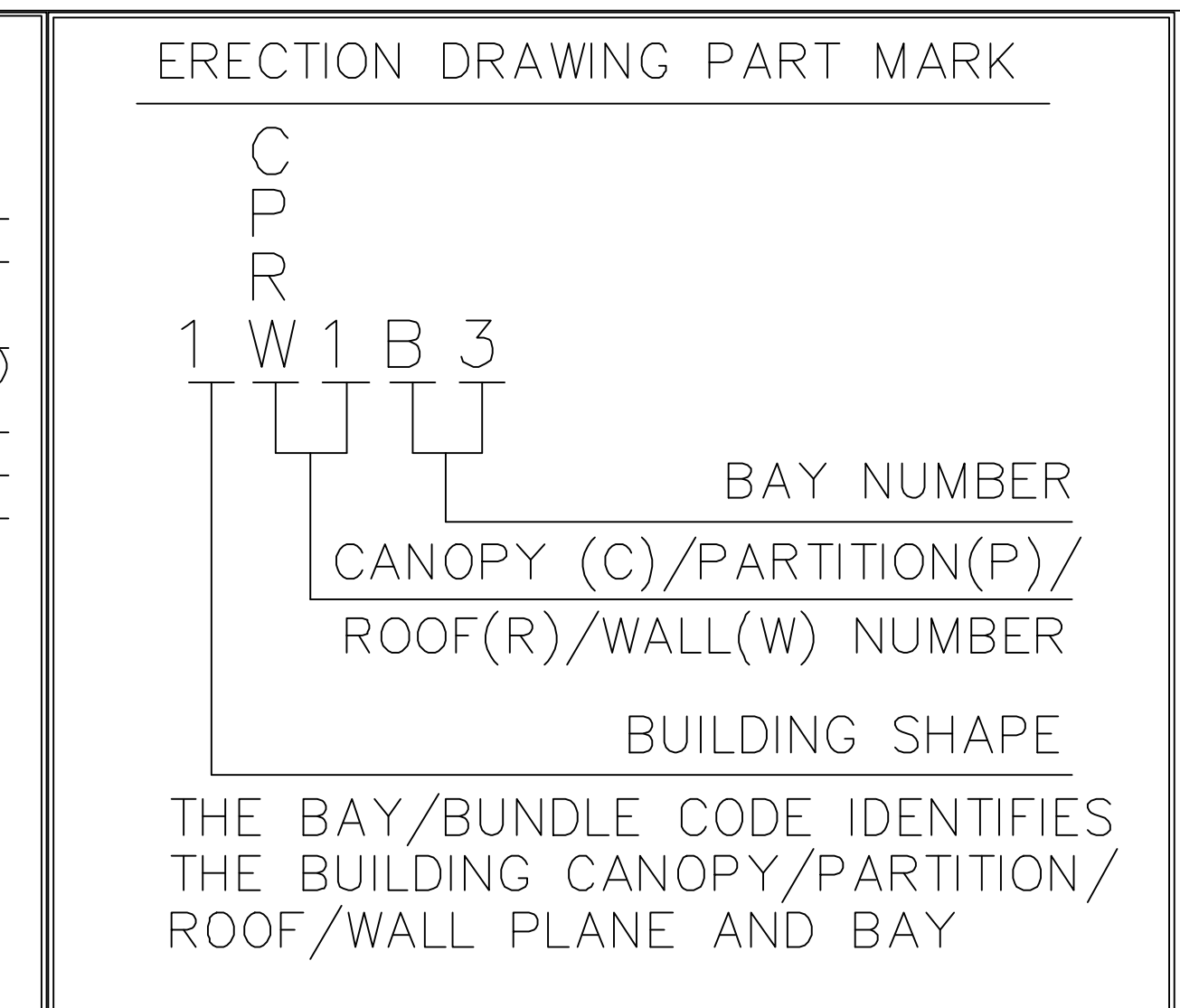
REV. DATE: 07/01/09 | REV. NO. 00 | **COMPOSITE STRUT ASSEMBLY ATTACH.**  
ROOF SECONDARY | BR18E2



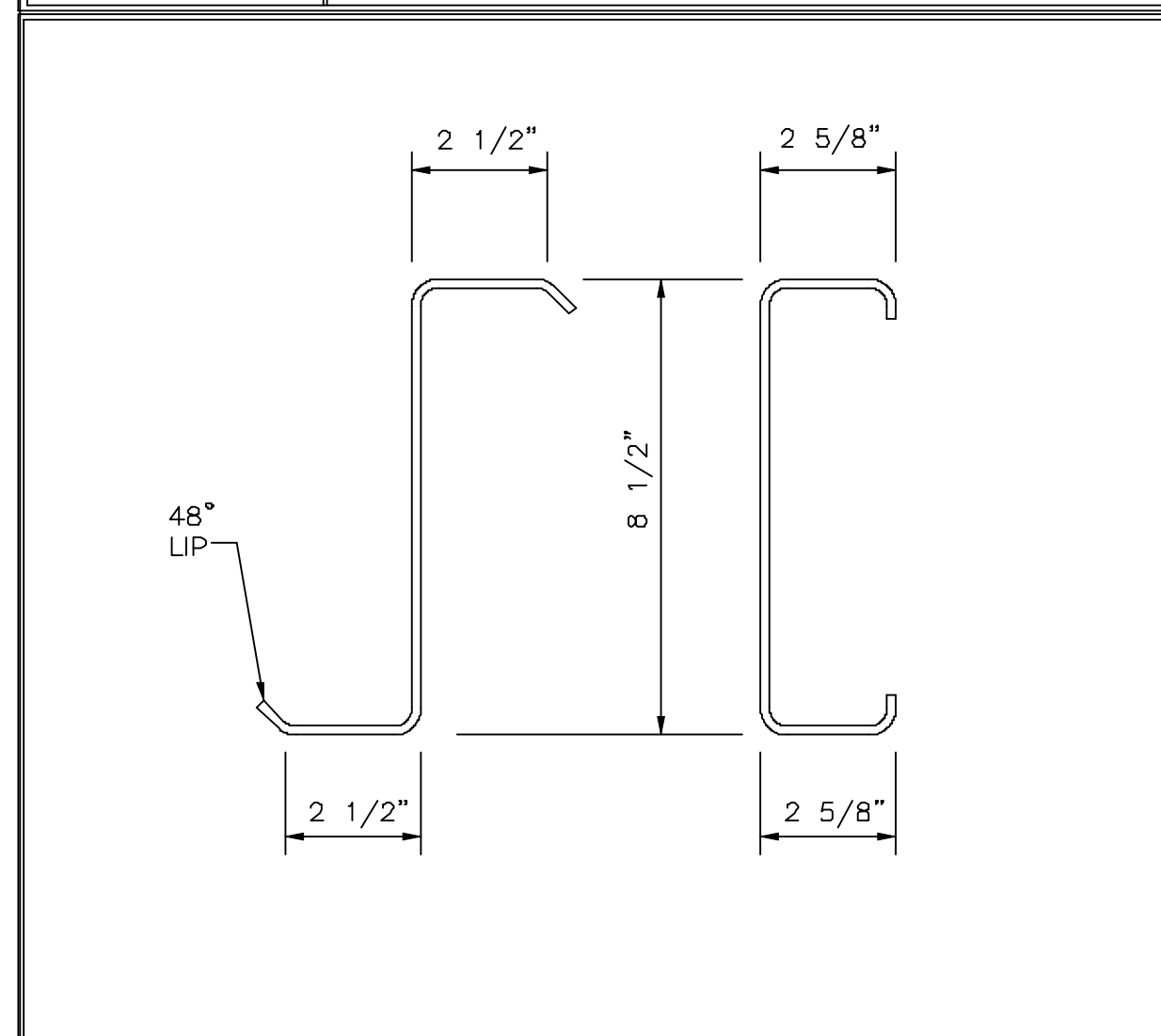
REV. DATE: 07/01/09 | REV. NO. 00 | **SECONDARY PART MARK NUMBER**  
COMMON GENERATED MARK NUMBERS | EN51B1



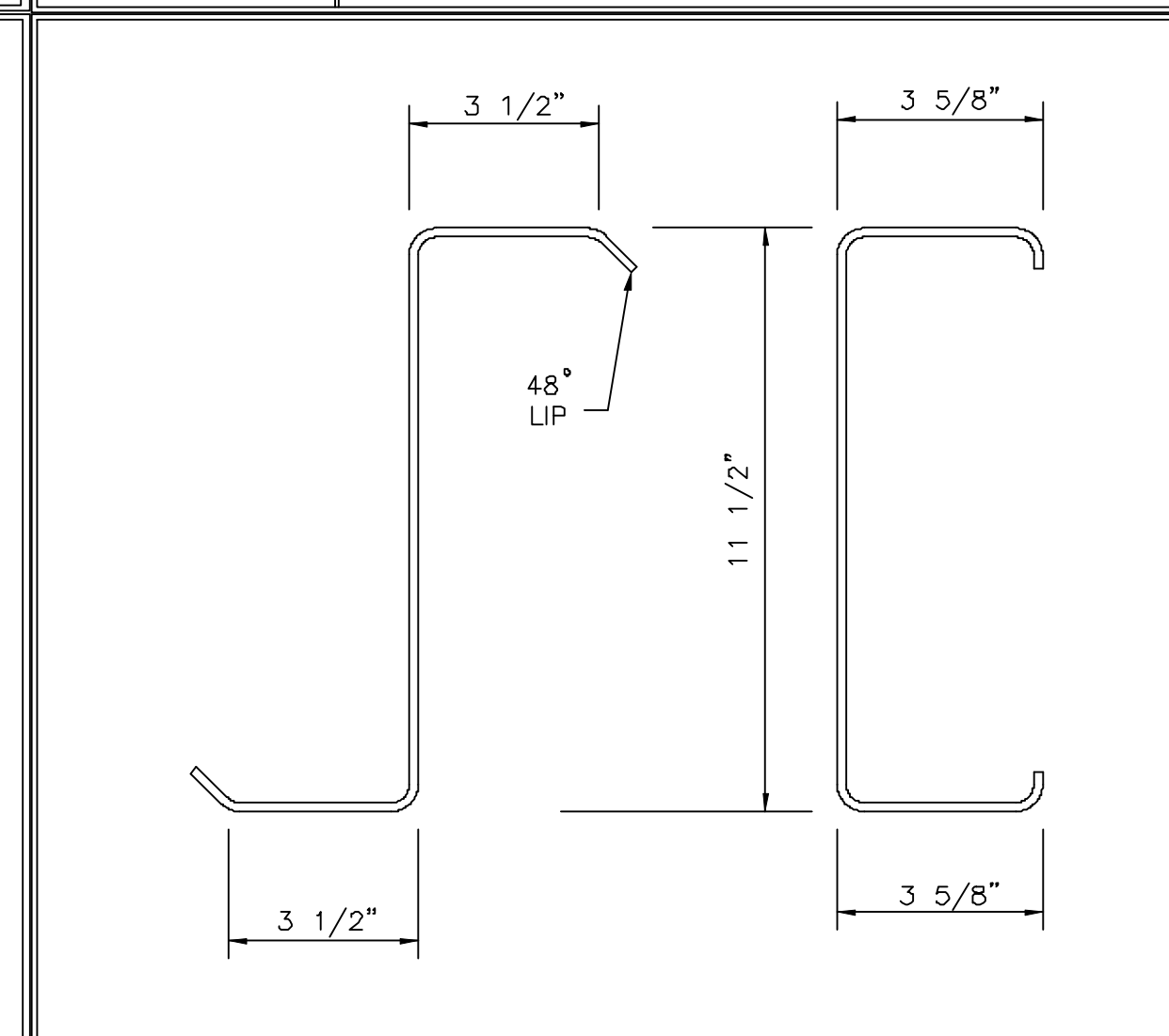
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COMMON GENERATED MARK NUMBERS | EN51B2



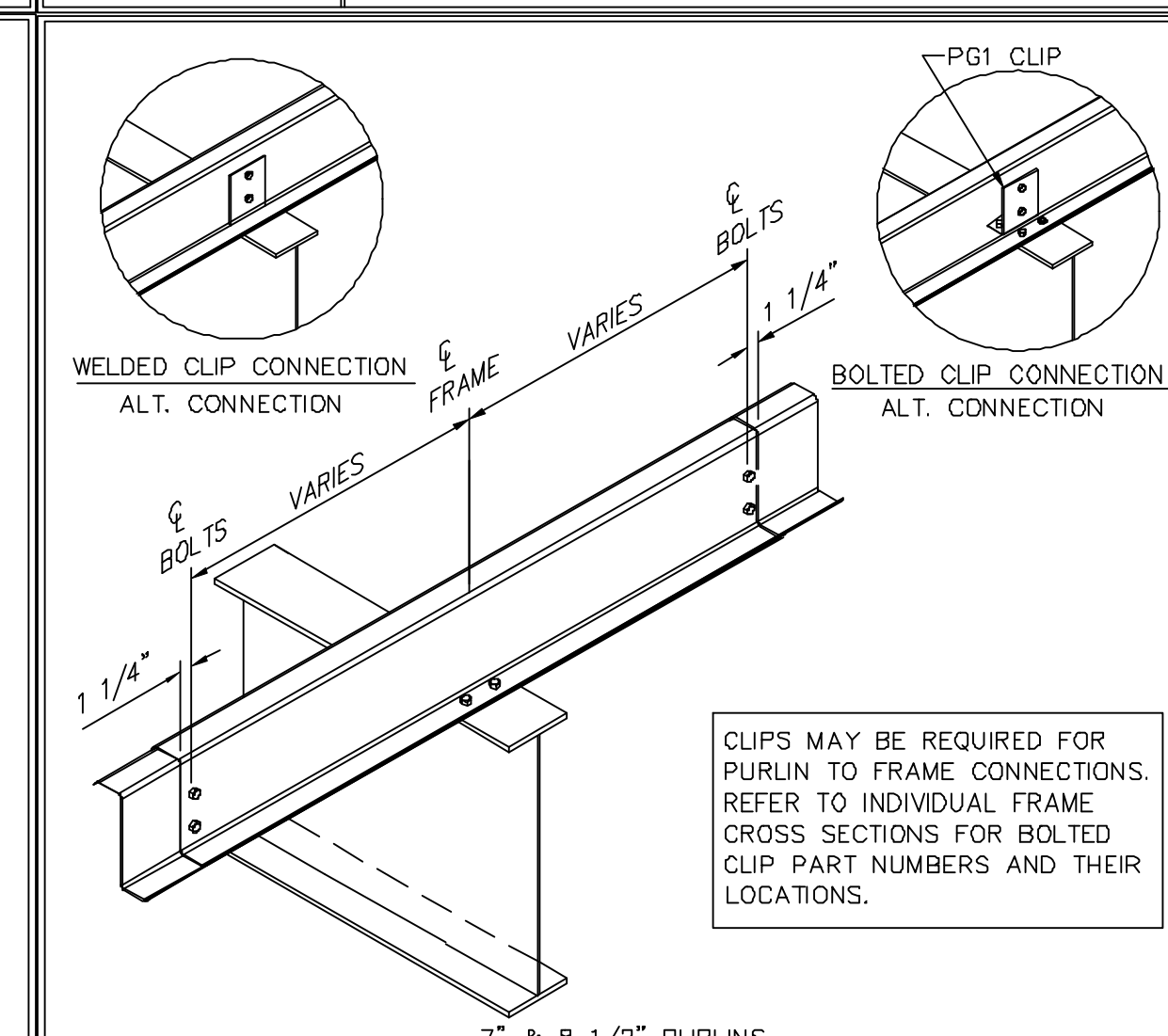
REV. DATE: 01/31/13 | REV. NO. 01 | **SECONDARY BUNDLE LOCATION KEY**  
ALL SECONDARY DEPTHS | EN51B3



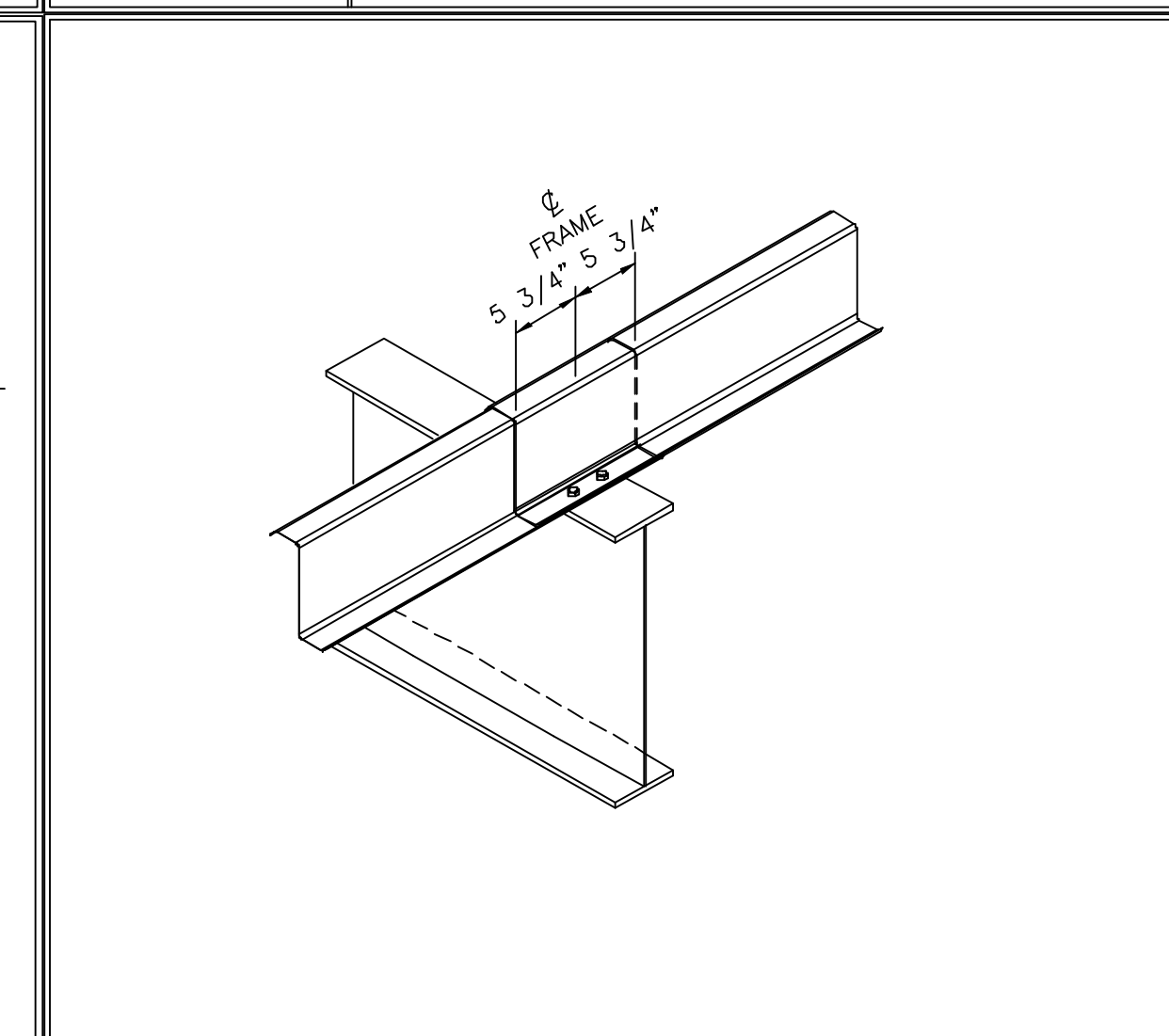
REV. DATE: 07/01/09 | REV. NO. 00 | **PURLIN AND GIRT SIZES**  
8 1/2" 216mm | EN53F1



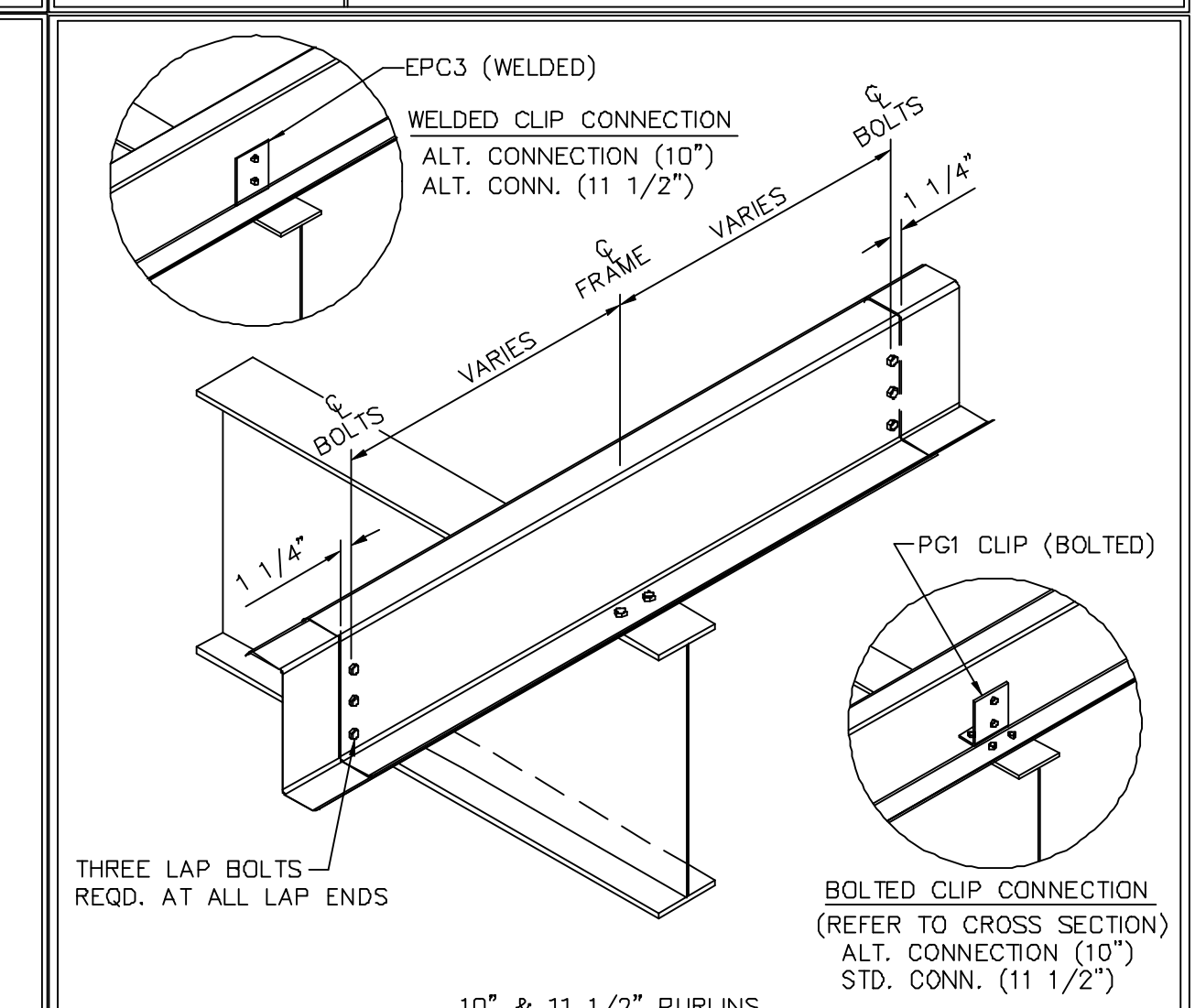
REV. DATE: 07/01/09 | REV. NO. 00 | **PURLIN / GIRT**  
11 1/2" 292mm | EN53H1



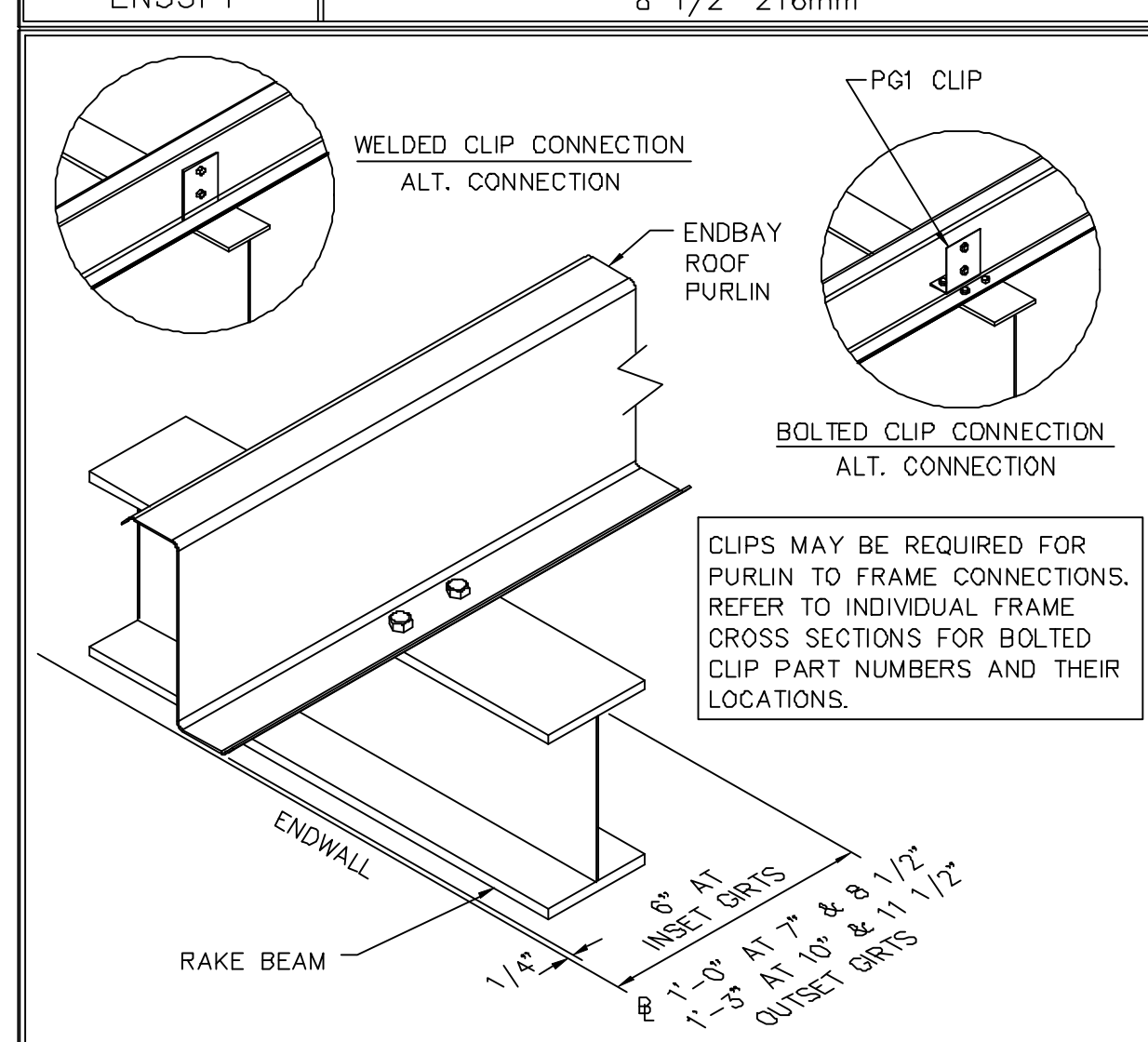
REV. DATE: 06/17/15 | REV. NO. 02 | **PURLIN CONNECTION AT INTERIOR FRAME**  
CONTINUOUS PURLINS | RS01T1



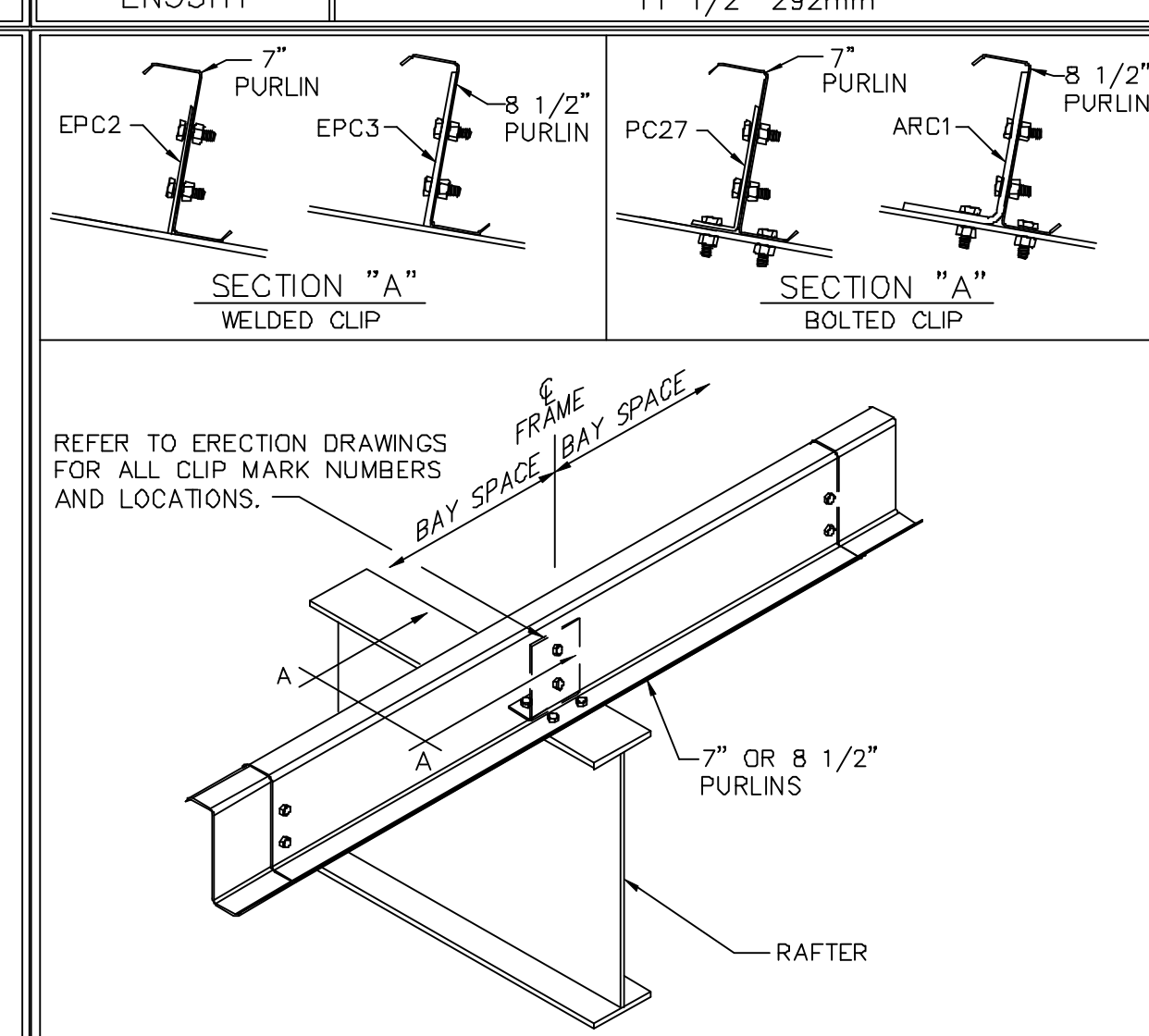
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SIMPLE PURLINS W/O CLIP | RS01TD



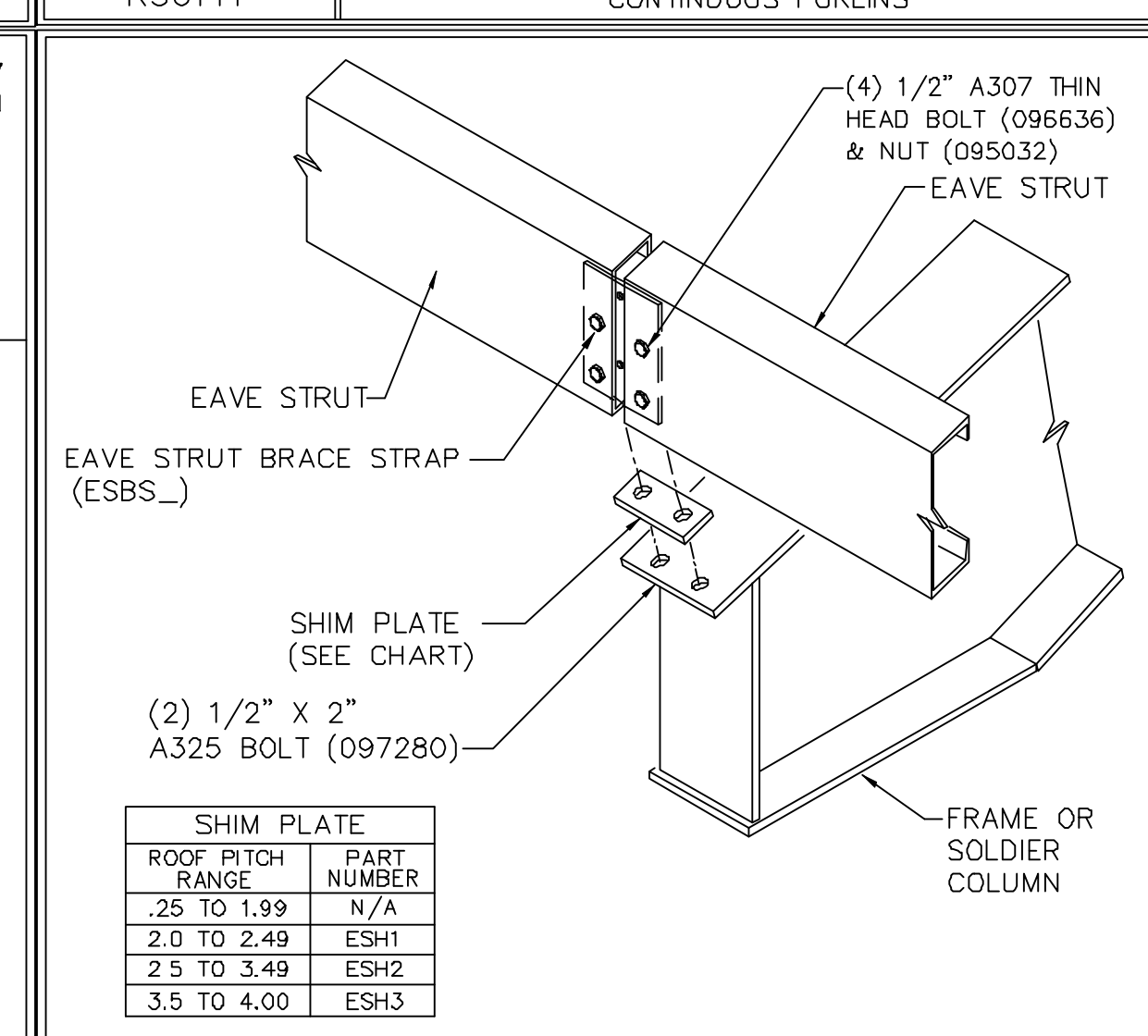
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CONTINUOUS PURLINS | RS01U1



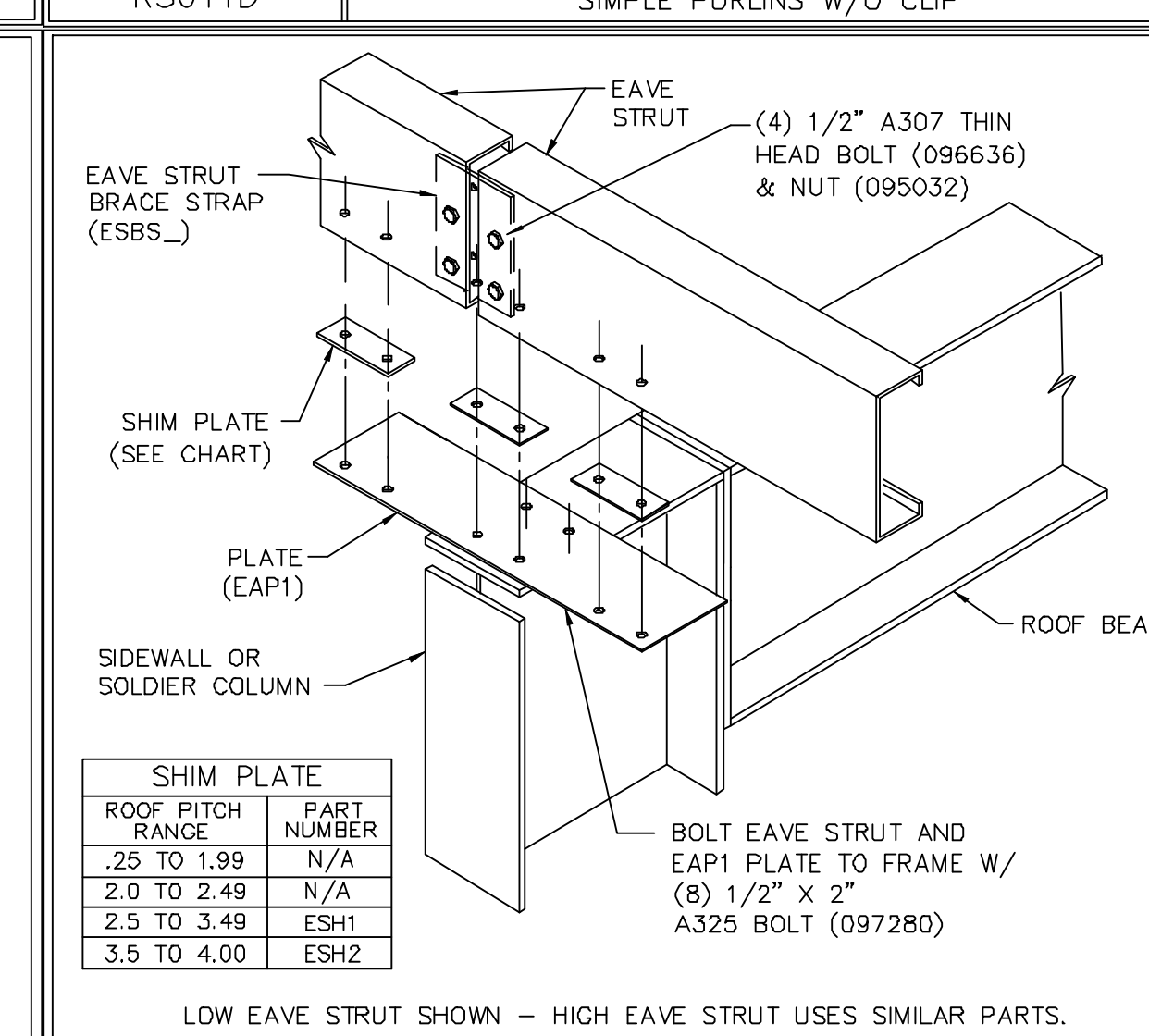
REV. DATE: 06/17/15 | REV. NO. 02 | **PURLIN CONNECTION TO END FRAME**  
CONTINUOUS PURLINS | RS02T1



REV. DATE: 08/11/14 | REV. NO. 04 | **ANTI-ROLL PURLIN CLIPS**  
WHEN REQUIRED BY DESIGN | RS03J1



REV. DATE: 07/20/16 | REV. NO. 03 | **EAVE STRUT CONNECTION**  
AT INTERIOR FRAME | RS12PA



REV. DATE: 07/20/16 | REV. NO. 05 | **EAVE STRUT W/ ATTACHMENT PLATE**  
INTERIOR FRAME | RS12PE

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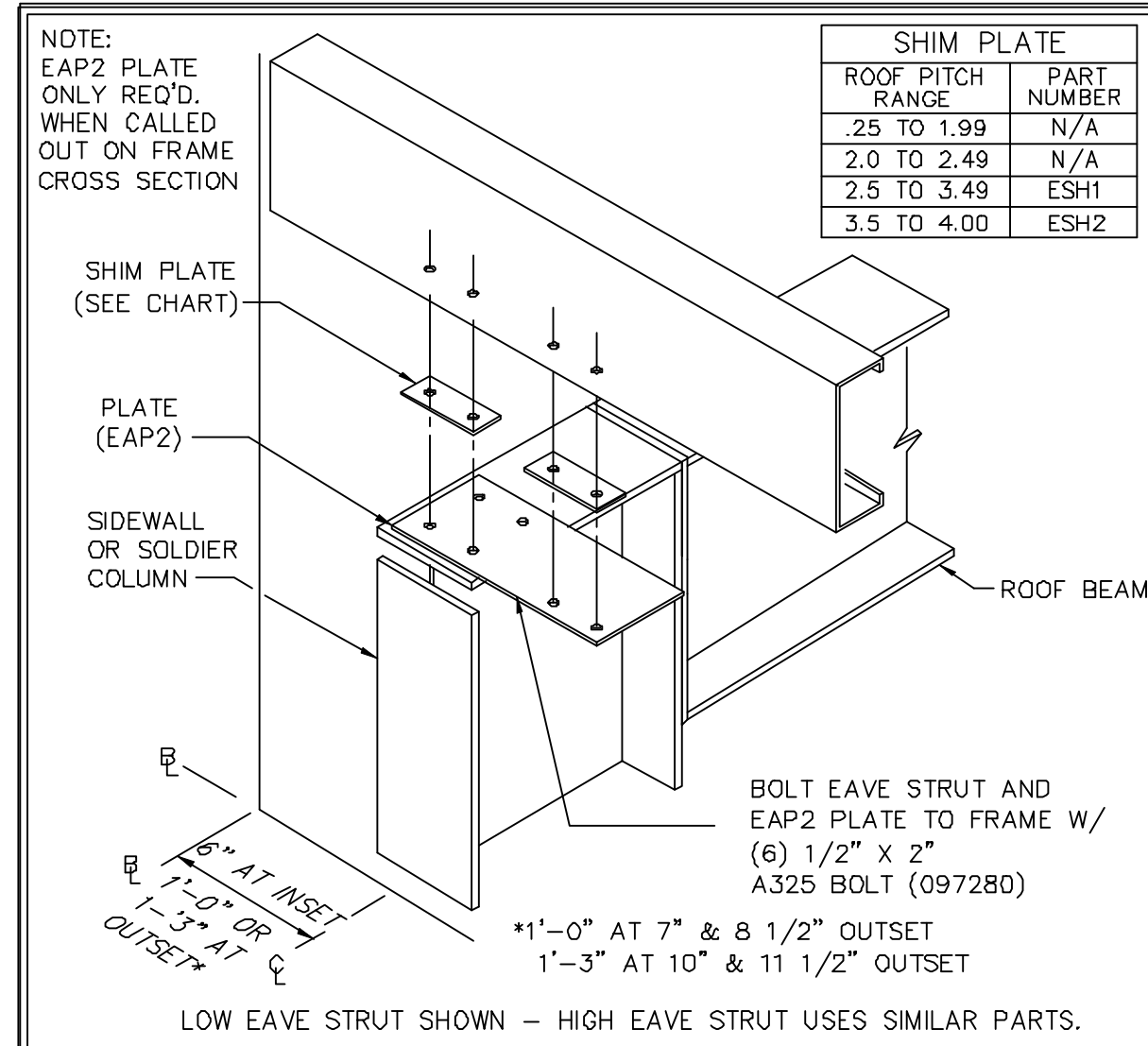
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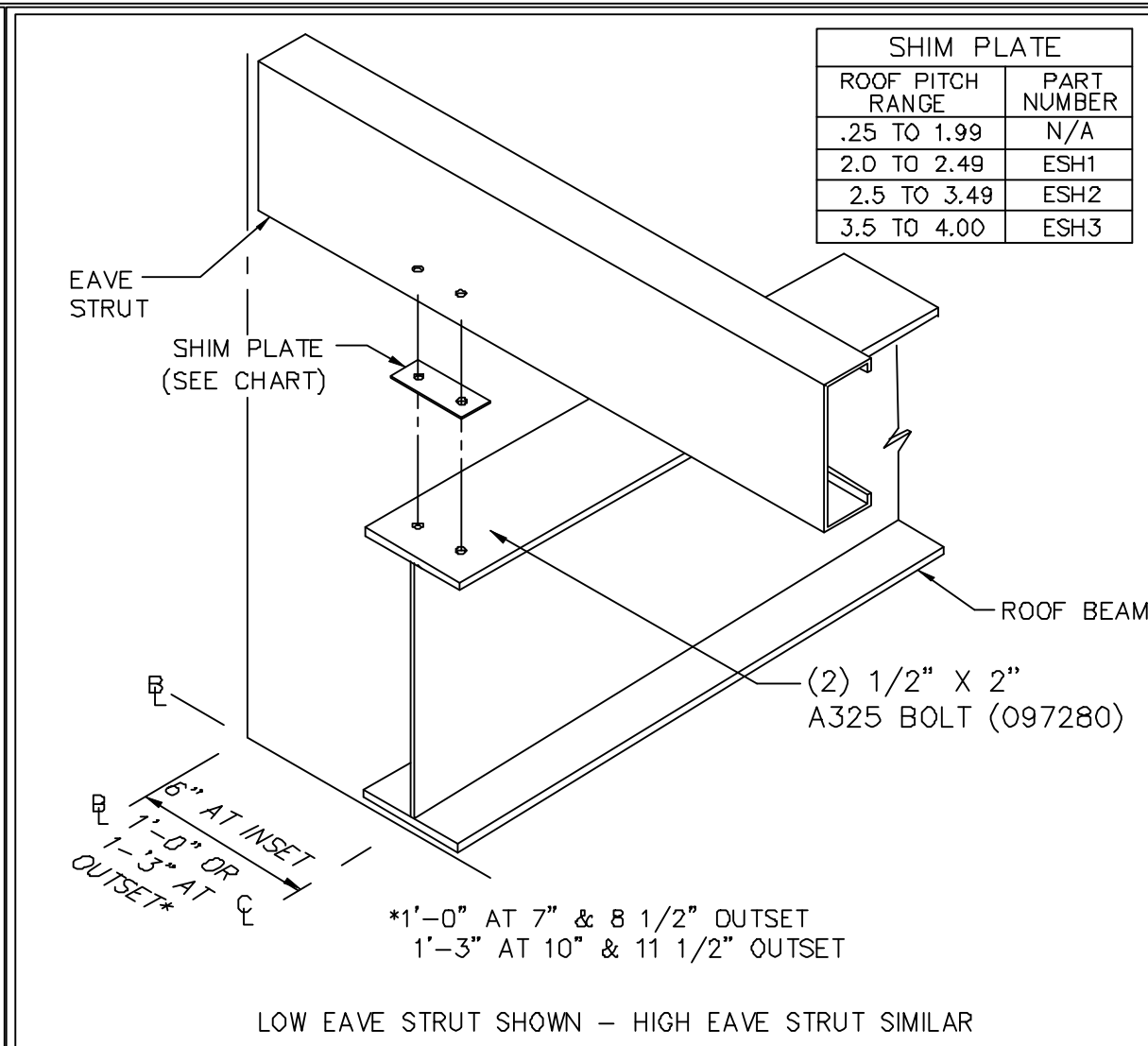
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REV	DATE	BY	DESCRIPTION

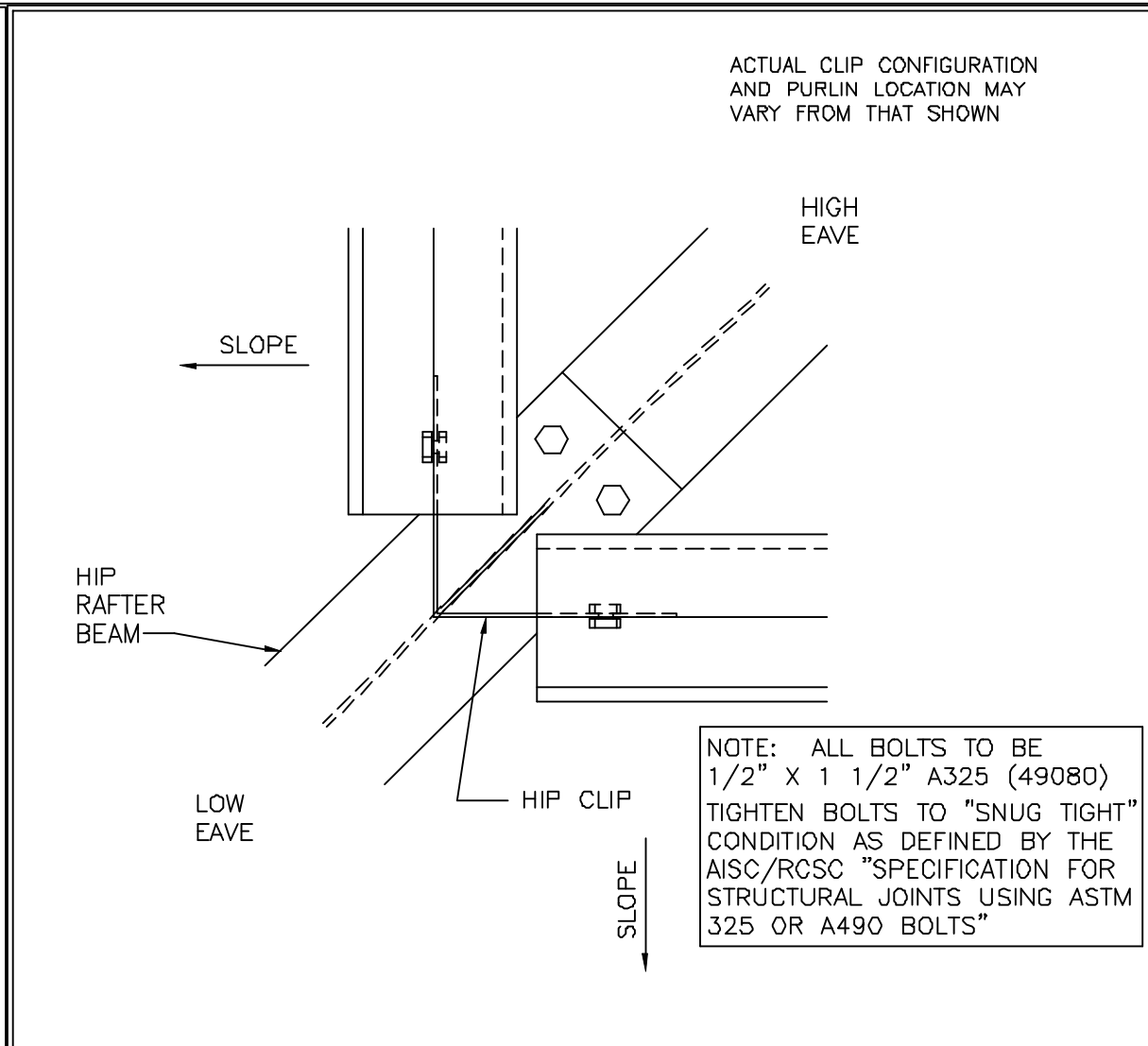
VP Buildings		ROOF SECONDARY SED'S (b)	
3200 Players Club Circle Memphis TN 38125		BUILDER	Lemartec Corporation
		CUSTOMER	Duke Energy
		LOCATION	Dunn, North Carolina
		PROJECT	Duke Energy Dunn Operations Center - Operations
		BUILDERS PO#	23068 - Ops
		VP VERSION:	24.1.1
		FILENAME:	Duke Energy - Ops
		JOBNO	23-016001-02
		DATE	3/14/2024
		DRAWN/CHECK	CAL WSM
		PAGE	43



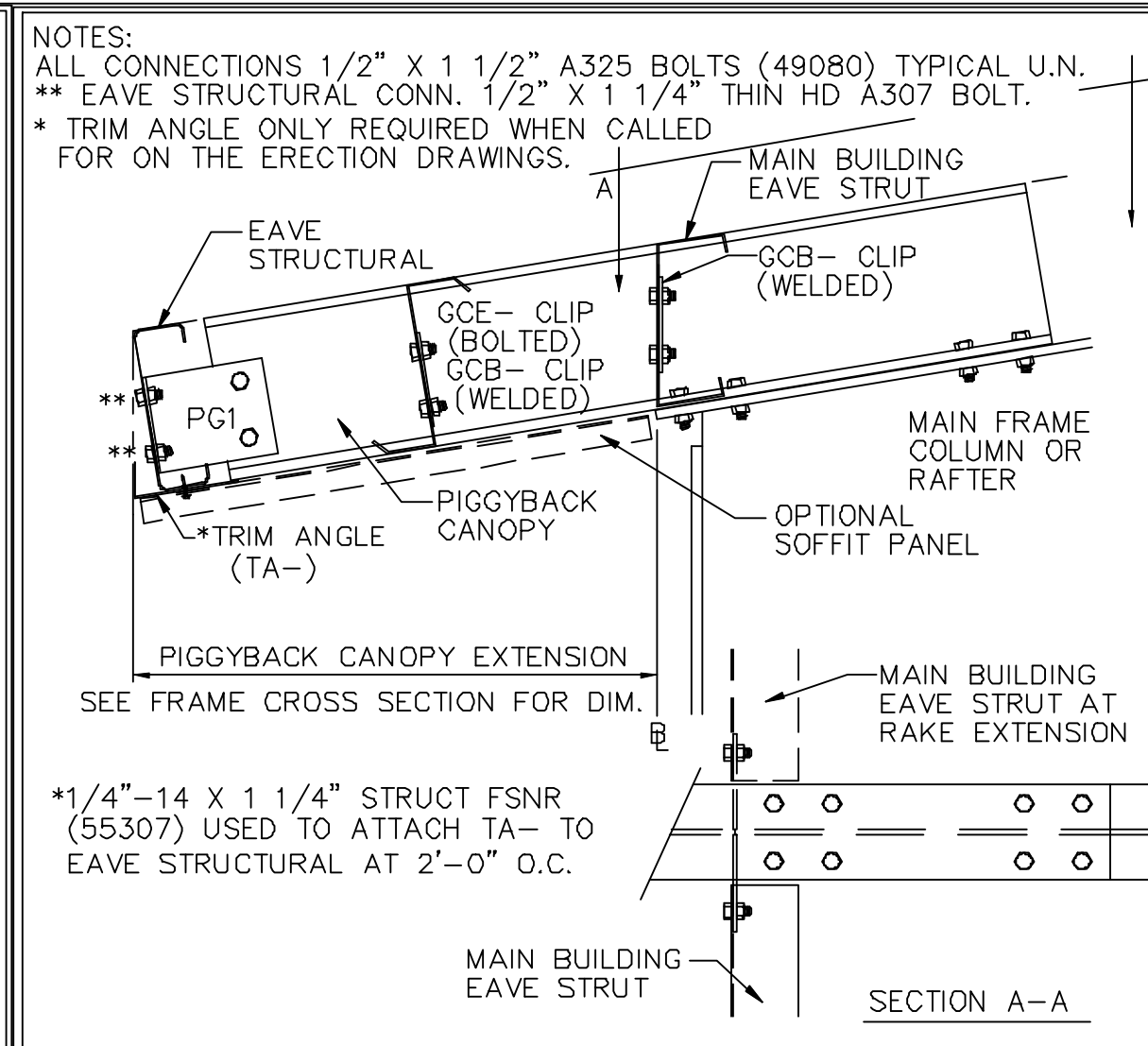
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RS12PF		



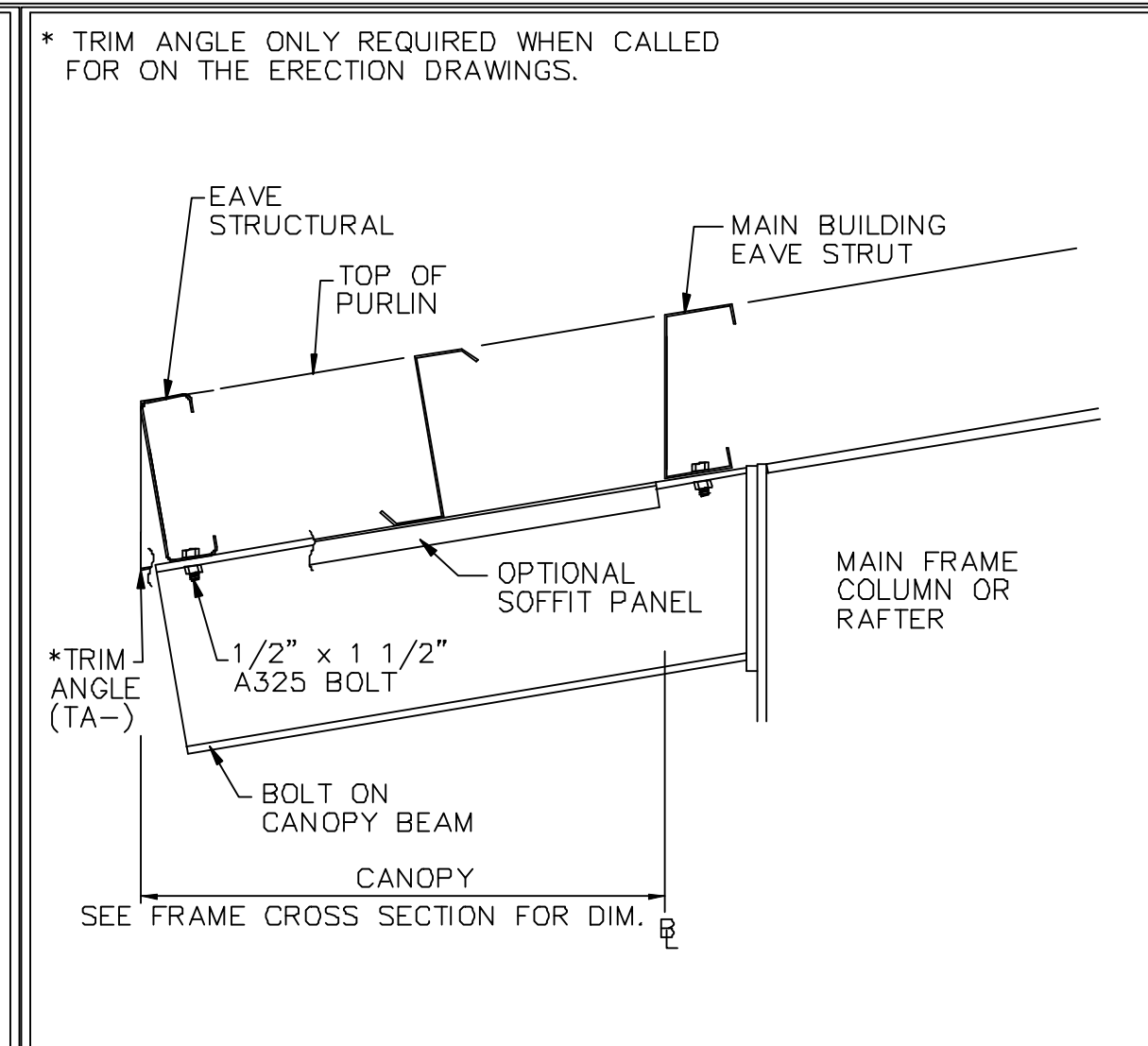
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RS12PH		



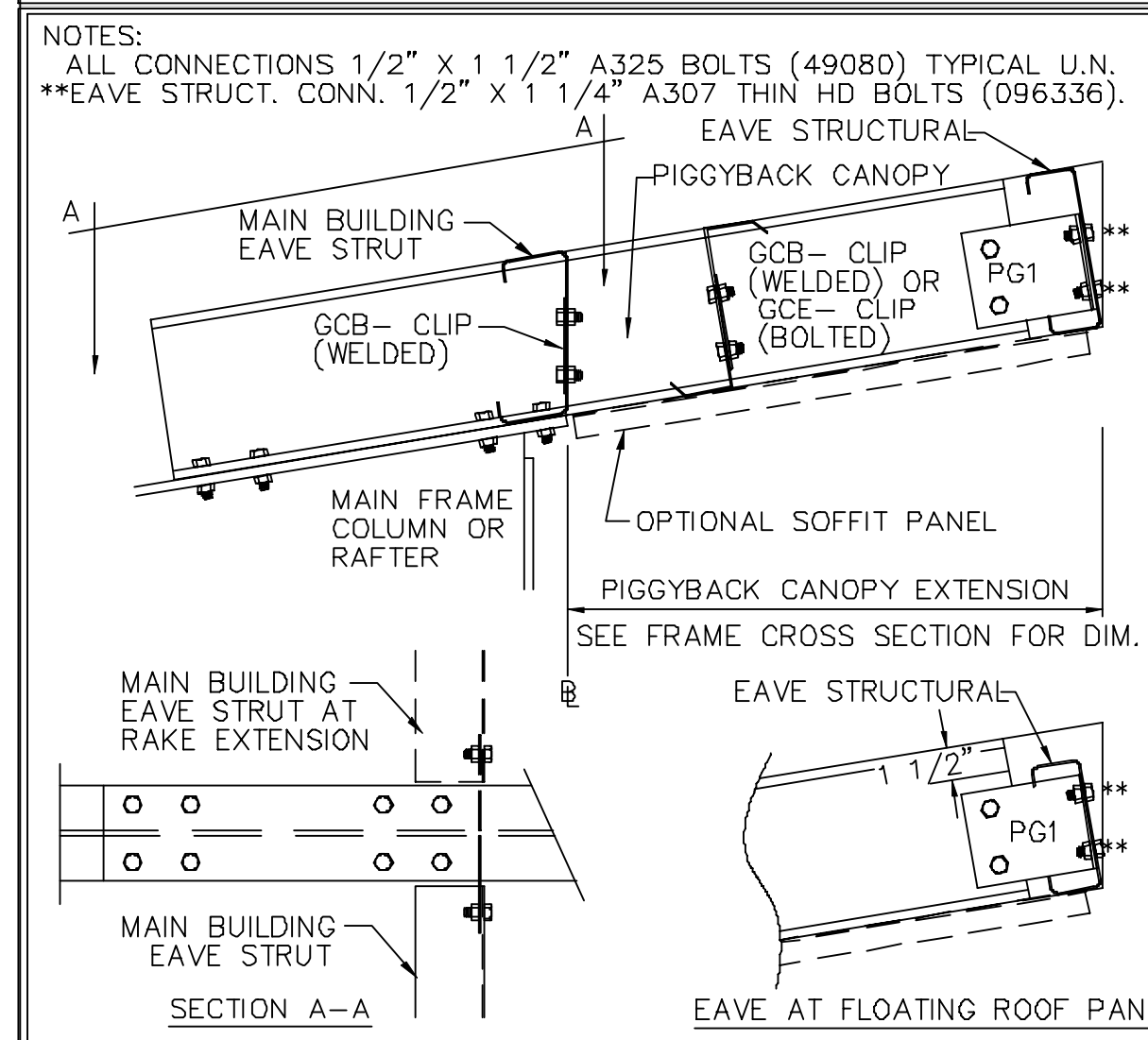
REV. DATE: 07/01/09	REV. NO. 00	HIP FRAMING PURLIN CLIP ATTACHMENT
RS70A4		



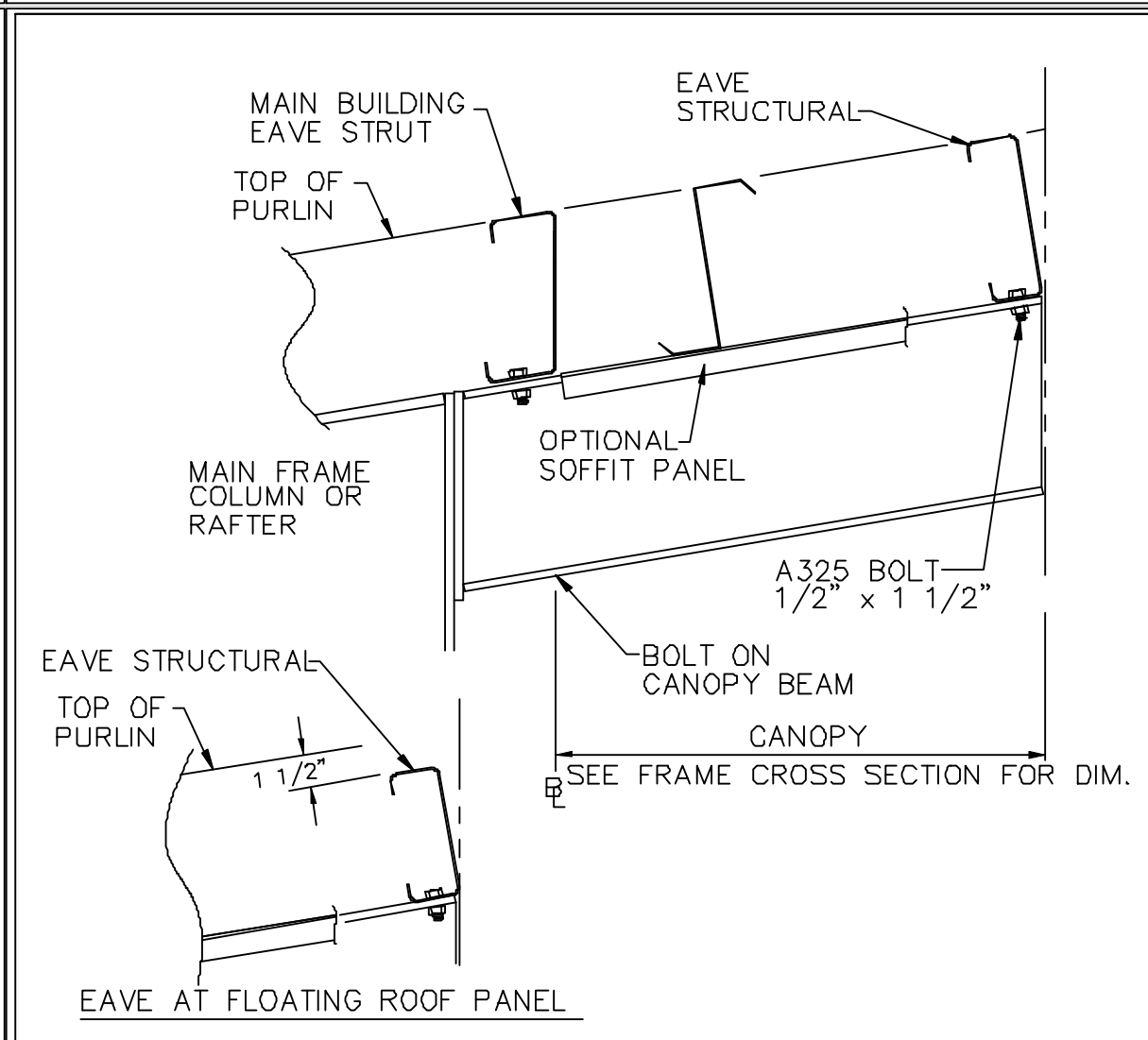
REV. DATE: 11/20/17	REV. NO. 01	PIGGYBACK CANOPY ALL PURLIN DEPTHS - LOW EAVE
RSV001		



REV. DATE: 08/19/14	REV. NO. 00	BOLT ON CANOPY ALL PURLIN DEPTHS - LOW EAVE
RSV002		



REV. DATE: 11/20/17	REV. NO. 01	PIGGYBACK CANOPY ALL PURLIN DEPTHS - HIGH EAVE
RSV003		



REV. DATE: 08/19/14	REV. NO. 00	BOLT ON CANOPY ALL PURLIN DEPTHS - HIGH EAVE
RSV004		



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NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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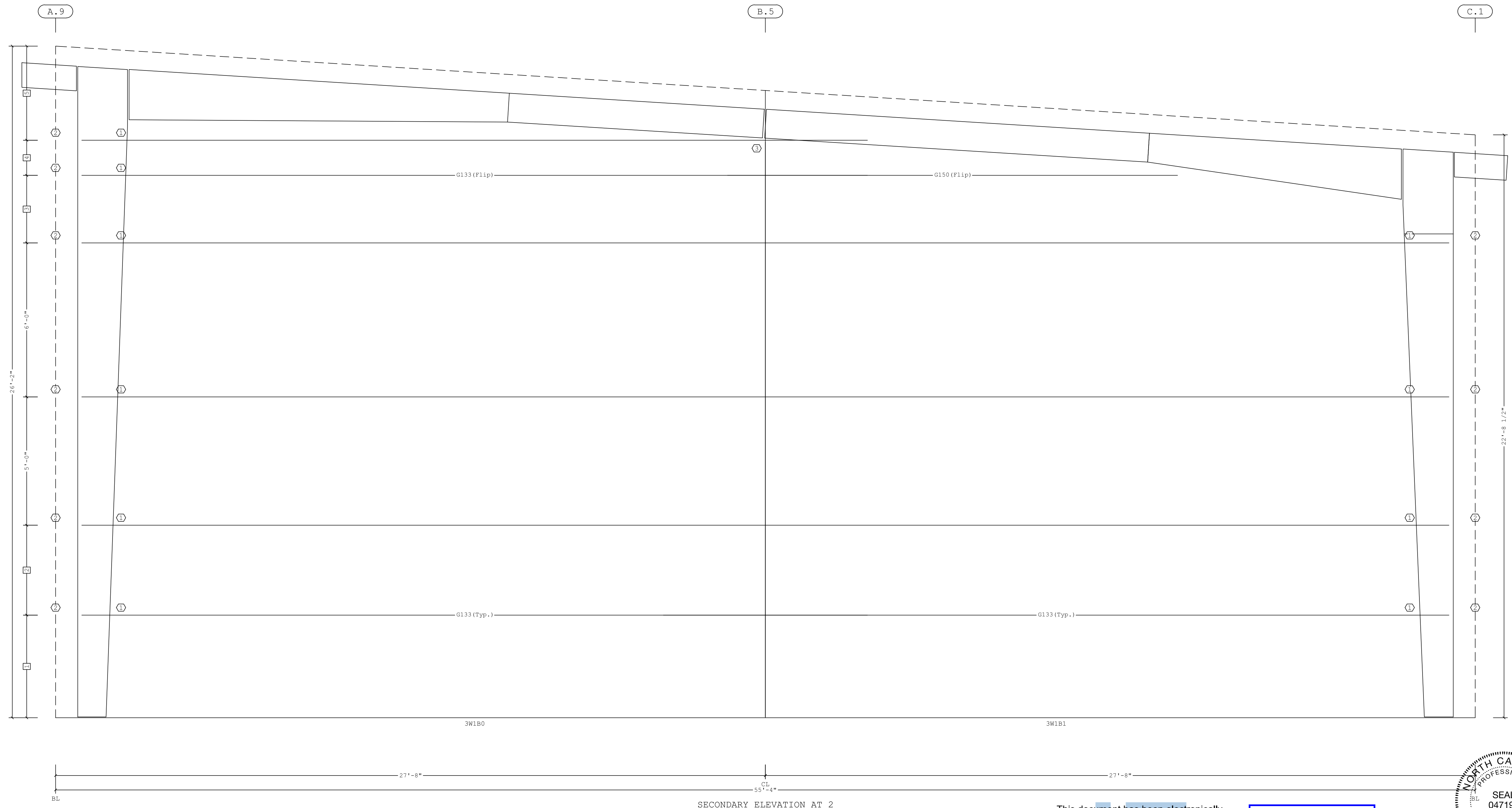
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D	VP Buildings 3200 Players Club Circle Memphis TN 38125				ROOF SECONDARY SED'S (c)					
	REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation			JOBNO	23-016001-02
					CUSTOMER	Duke Energy			DATE	3/14/2024
				LOCATION	Dunn, North Carolina			DRAWN/CHECK	CAL WSM	
				PROJECT	Duke Energy Dunn Operations Center - Operations			PAGE	44	
				BUILDERS PO#	23068 - Ops			VP VERSION:	24.1.1	
				NTS	VP BUILDINGS VARCO PRUDEN A BlueScope Steel Company					
				5/21/2024 SEDSheet	20:30:28			FILENAME:	Duke Energy - Ops	

Mark	Part	Thick.	Depth	Lap	Detail
G133	10Z3007417U500	0.0600	10"	3'-10 1/2"	WS12H6, WS12A2, WS01V3
G150 (Flip)	00110ZS170651700	0.0600	10"	1'-4 1/2"	WS12H6, WS12A2, WSR06S, WS04C2, WS01V3



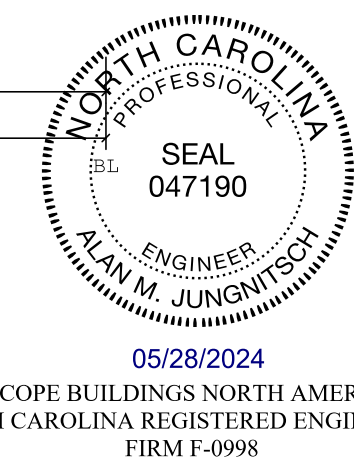
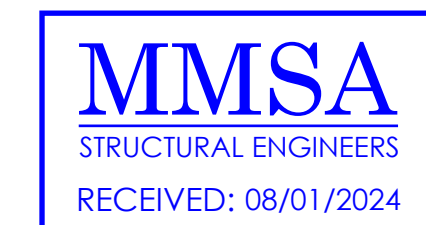
5	3'-8"		
4	1'-4 7/16"		
3	2'-7 9/16"	3	GCD052060
2	3'-6"	2	GFA200
1	4'-0"	1	VCC08403104

□ Dimension Key      ○ Part Mark Key

Shape Name = GARAGE BAYS, Wall = 1

SECONDARY ELEVATION AT 2

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NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

FOR CONSTRUCTION

- 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.
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REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS FOR	JOBNO	DATE	DRAWN/CHECK	CAL	WSM	PAGE	
VP Buildings 3200 Players Club Circle Memphis TN 38125				Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center - Operations	23068 - Ops	23-016001-02	3/14/2024	CAL	WSM	49		
NTS				VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1		VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1		VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1		VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1		VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1		VP BUILDINGS MARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.1	

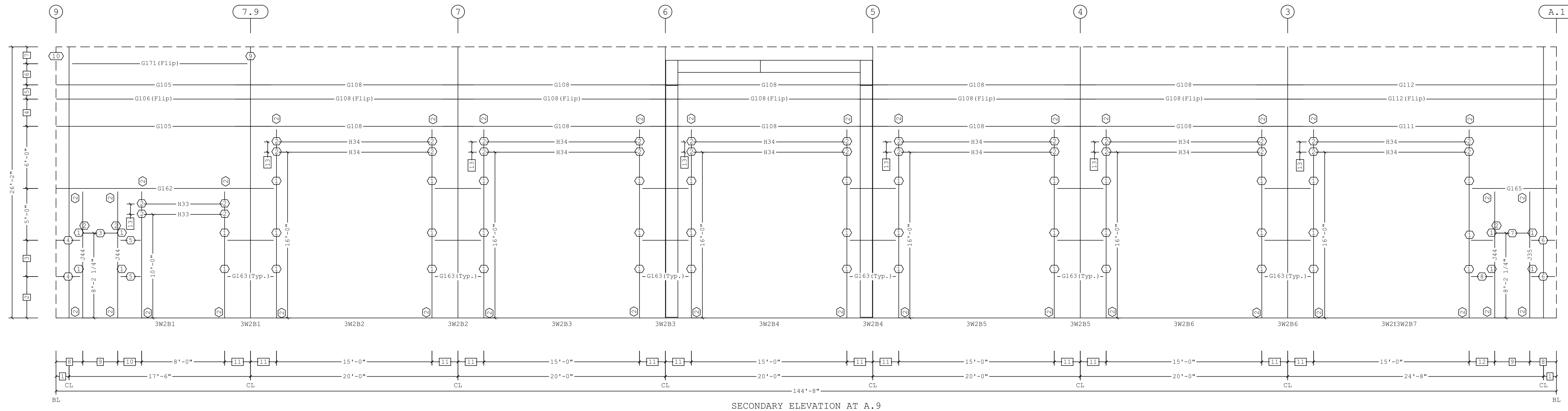
MODIFIED IN AUTOCAD

Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G105	1022008417V300	0.0600	10"	1'-10 1/2"	WS12H6, WS12A2, WS01V3
G106 (Flip)	1021808417DV00	0.0600	10"		WS12H6, WS12A2, WSR065, WS01G2
G108	10222114172200	0.0600	10"	1'-4 1/2"	WS01V3
G111	1022810414V400	0.0790	10"	2'-10 1/2"	WS12H6, WS12A2, WS01V3
G112	1022810417V400	0.0600	10"	2'-10 1/2"	WS12H6, WS12A2, WS01V3
G124	002102S020331700	0.0600	10"		WS12H6, WS12A2, WS20F2
G151	003102S011071700	0.0600	10"		WS12H6, WS12A2, WS20F2
G156	011102S020071700	0.0600	10"		WS20F2
G162	007102S201141700	0.0600	10"		WS12H6, WS12A2
G163	009102S040501700	0.0600	10"		WS01V3
G164	010102S020331700	0.0600	10"		WS12H6, WS12A2, WS20F2
G165	015102S080121700	0.0600	10"		WS12H6, WS12A2
G171 (Flip)	004102S161041700	0.0600	10"		WS12H6, WS12A2, WSR065, WS01G2
H32	00610JS0304417	0.0600	10"		WS20F9
H33	00710JS0800017	0.0600	10"		
H34	00810JS1500017	0.0600	10"		
H35	00910JS0304417	0.0600	10"		WS20F9
J35	00310JS1202217	0.0600	10"		WS20B2, WS20B8
J44	01010JS1202217	0.0600	10"		WS20F2, WS20B2, WS20B8

Frame Member Schedule

Part	Width	Thick.	Webthk	Depth	Approx. Lgth
PCCX003	C10X15.	3		10"	12'-6"
PCCX004	C10X15.	3		10"	18'-6"



13	1'-0"	10	GFA206
12	2'-5 5/8"	9	GFA106
11	2'-6"	8	G156 (Typ.)
10	2'-3 5/8"	7	H35
9	3'-4 1/2"	6	G164
8	2'-6 7/8"	5	G151
7	1'-7 7/16"	4	G124
6	2'-0 9/16"	3	H32
5	1'-4 7/16"	2	PG1
4	2'-7 9/16"	1	JTG4
3	3'-6"		
2	4'-0"		
1	1'-3"		

Dimension Key      Part Mark Key

Shape Name = GARAGE BAYS, Wall = 2

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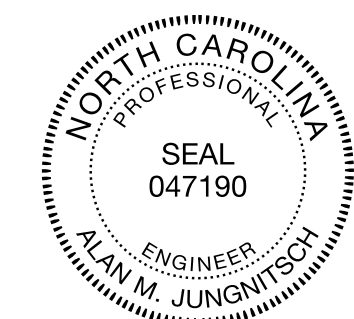
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D		VP Buildings		3200 Players Club Circle Memphis TN 38125		SECONDARY ELEVATION AT A.9	
REV	DATE	BY	DESCRIPTION	BUILDER	LEMA	CUSTOMER	DUKE
				Lemartec Corporation		Duke Energy	
						Dunn, North Carolina	
						Duke Energy Dunn Operations Center - Operations	
						23068 - Ops	
NTS							



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NORTH CAROLINA REGISTERED ENGINEERING  
FIRM F-0998

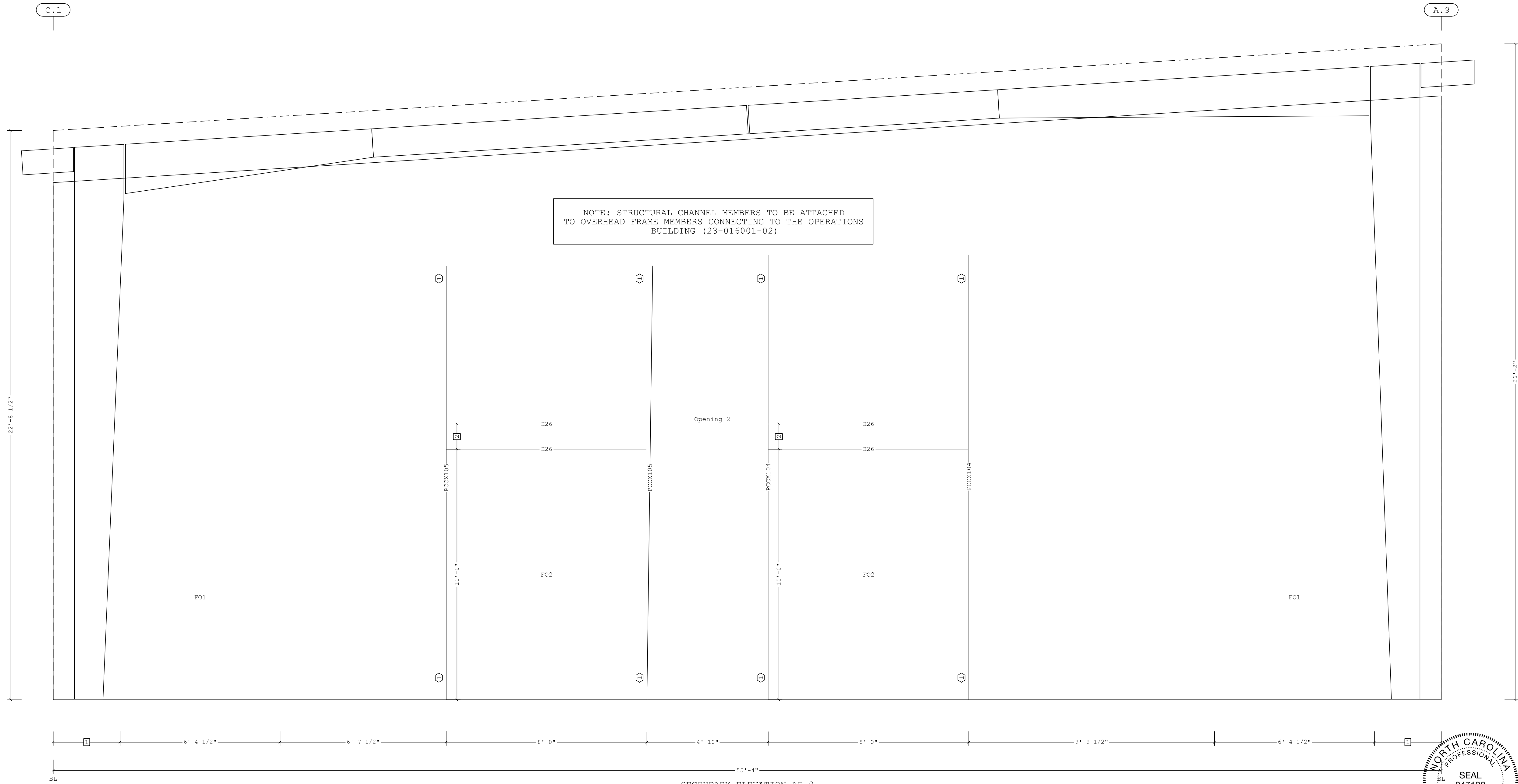
FOR CONSTRUCTION

MODIFIED IN AUTOCAD

Mark	Part	Thick.	Depth	Lap	Detail
H26	00010JS0711417	0.0600	10"		

Part	Profile	Approx. Lgth
PCCX004	C10X15.3	18'-0"
PCCX005	C10X15.3	17'-3 5/8"

Id	Width	Height	Sill Ht.	Frame	To	Dimen.	Description
FO1	6'-4 1/2"	8'-2 1/4"	0'-0"	BL	Jamb-L	46'-3 1/2"	6080 (TRIM ONLY)
FO1	6'-4 1/2"	8'-2 1/4"	0'-0"	BL	Jamb-L	2'-8"	6080 (TRIM ONLY)
FO2	8'-0"	10'-0"	0'-0"	BL	Jamb-L	28'-6"	8x10 RUD (Support by Wind Beam)
FO2	8'-0"	10'-0"	0'-0"	BL	Jamb-L	15'-8"	8x10 RUD (Support by Wind Beam)

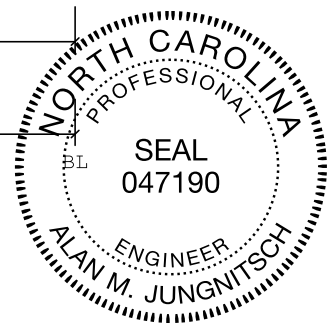


2	1'-0"	
1	2'-8"	PG1
□	Dimension Key	○ Part Mark Key

Shape Name = GARAGE BAYS, Wall = 3



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BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**FOR CONSTRUCTION**

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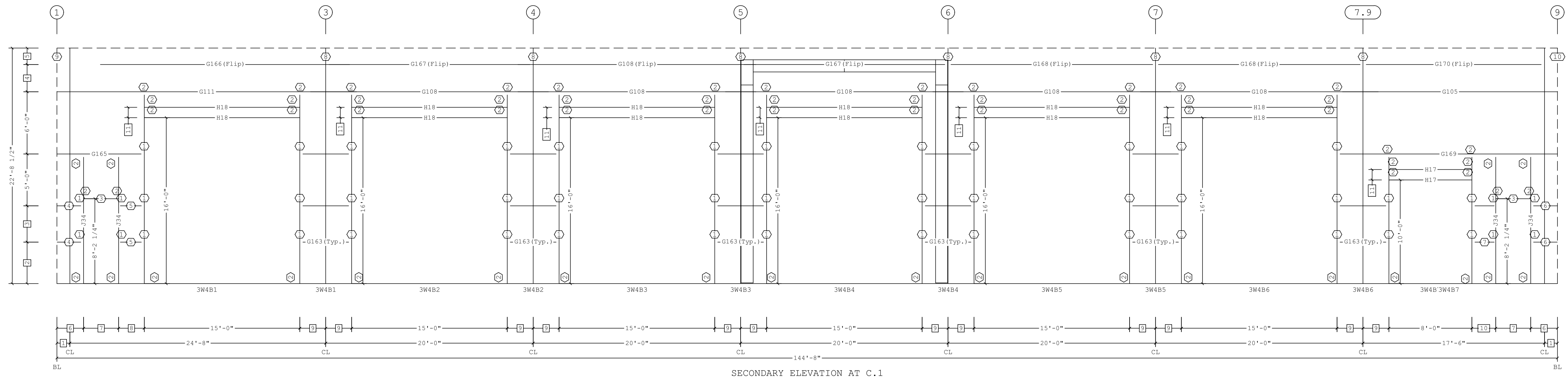
REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS FOR	JOBNO	DATE	DRAWN/CHECK	CAL	WSM	PAGE
				Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center - Operations	23068 - Ops	23-016001-02	3/14/2024	VP BUILDINGS	WASCO PRUDEN	VP	51
VP Buildings 3200 Players Club Circle Memphis TN 38125				SECONDARY ELEVATION AT 9 (b)										
NTS				A BlueScope Steel Company VPC VERSION: 24.1.1										

Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G105	PCCX003	0.2400	10"		WS20B2, WS20B8
G108	10Z22008417V300	0.0600	10"	1'-10 1/2"	WS12H6, WS12A2, WS01V3
G109	10Z22114172200	0.0600	10"	1'-4 1/2"	WS01V3
G111	00510ZS020331700	0.0600	10"		WS12H6, WS12A2, WS20F2
G124	10Z2810414V400	0.0790	10"	2'-10 1/2"	WS12H6, WS12A2, WS01V3
G124	00210ZS020331700	0.0600	10"		WS12H6, WS12A2, WS20F2
G157	01210ZS020031700	0.0600	10"		WS12H6, WS12A2, WS20F2
G161	01410ZS011031700	0.0600	10"		WS20F2
G163	00910ZS040501700	0.0600	10"		WS01V3
G165	01510ZS080121700	0.0600	10"		WS12H6, WS12A2
G166 (Flip)	01310ZS240041700	0.0600	10"	2'-10 1/2"	WS12H6, WS12A2, WS01V3
G167 (Flip)	00610ZS190441700	0.0600	10"	1'-4 1/2"	WSR065, BRR052, WS01K2
G168 (Flip)	01610ZS191141700	0.0600	10"	1'-4 1/2"	WSR065, BRR052, WS01K2
G169	01710ZS201121700	0.0600	10"		WS12H6, WS12A2
G170 (Flip)	01810ZS161041700	0.0600	10"		WS12H6, WS12A2, WSR065, BRR052, WS01K2
H17	00110ZS0800017	0.0600	10"		WS20F9
H18	00410ZS1500017	0.0600	10"		WS20F9
H32	00610ZS0304417	0.0600	10"		WS20F9
J34	00210ZS1202217	0.0600	10"		WS20F2, WS20B2, WS20B8

Frame Member Schedule

Part	Width	Thick.	Webthk	Depth	Approx. Lgth
PCCX004	C10X15.			10"	18'-6"
PCCX003	C10X15.			10"	12'-6"



11	1'-0"	10	GFA206
10	2'-3 5/8"	9	GFA500
9	2'-6"	8	GFA106
8	2'-5 5/8"	7	G161 (Typ.)
7	3'-4 1/2"	6	G109
6	2'-6 7/8"	5	G157
5	1'-6 15/16"	4	G124
4	2'-7 9/16"	3	H32
3	3'-6"	2	PG1
2	4'-0"	1	JTG4
1	1'-3"		

Dimension Key      Part Mark Key

Shape Name = GARAGE BAYS, Wall = 4

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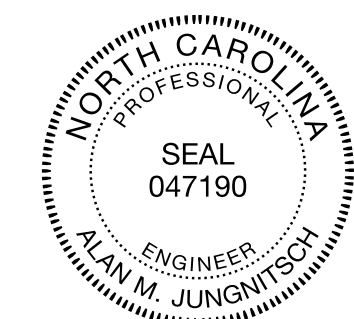
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VP Buildings			
3200 Players Club Circle Memphis TN 38125			
REV	DATE	BY	DESCRIPTION
NTS			

VP BUILDINGS		SECONDARY ELEVATION AT C.1	
BUILDER	Lemartec Corporation	JOBNO	23-016001-02
CUSTOMER	Duke Energy	DATE	3/14/2024
LOCATION	Dunn, North Carolina	DRAWN/CHECK	CAL WSM
PROJECT	Duke Energy Dunn Operations Center - Operations	PAGE	52
BUILDERS FOR	23068 - Ops		
A BlueScope Steel Company VPC VERSION: 24.1.1		A division of BlueScope Buildings North America, Inc.	



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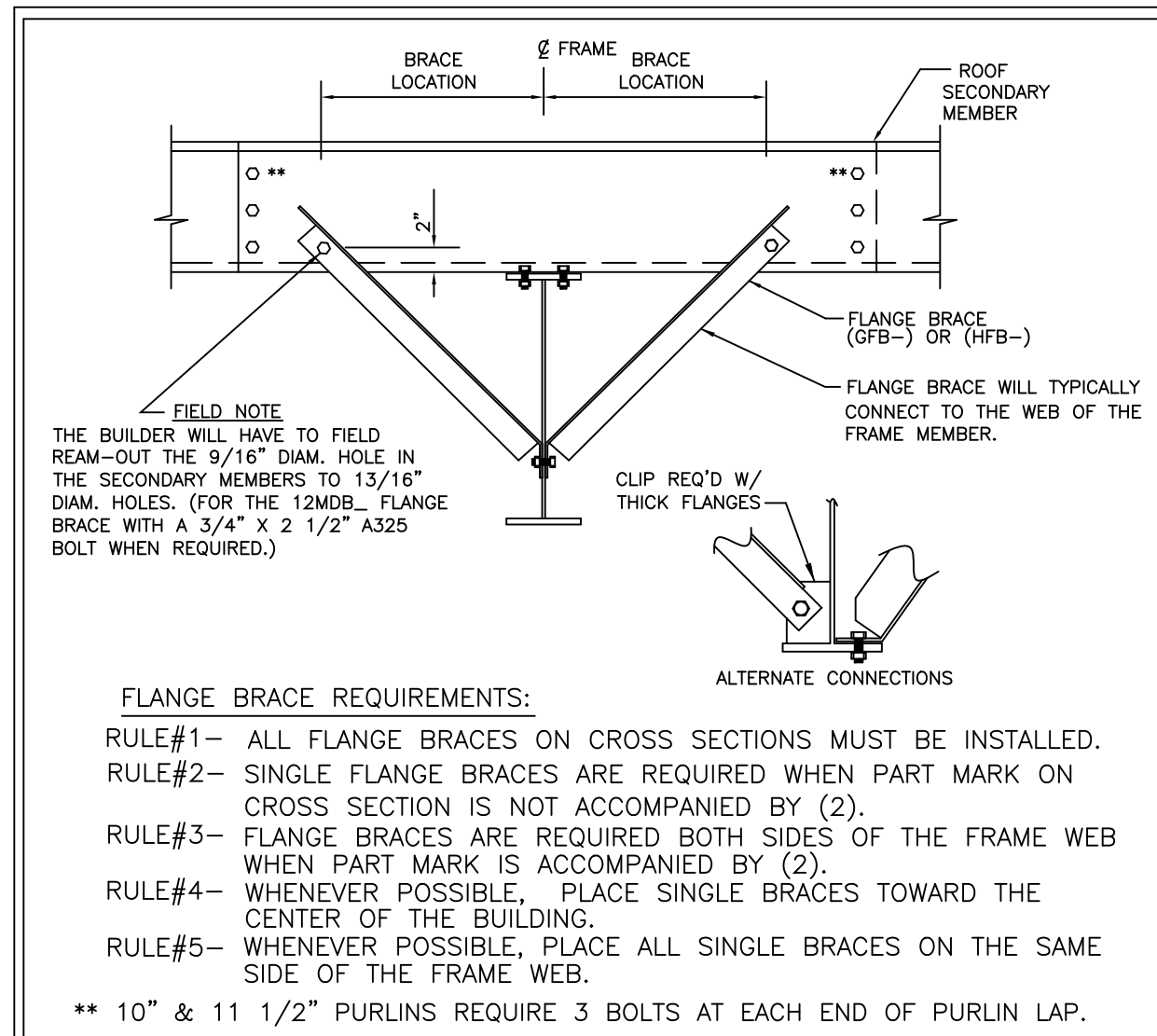


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 FIRM F-0998

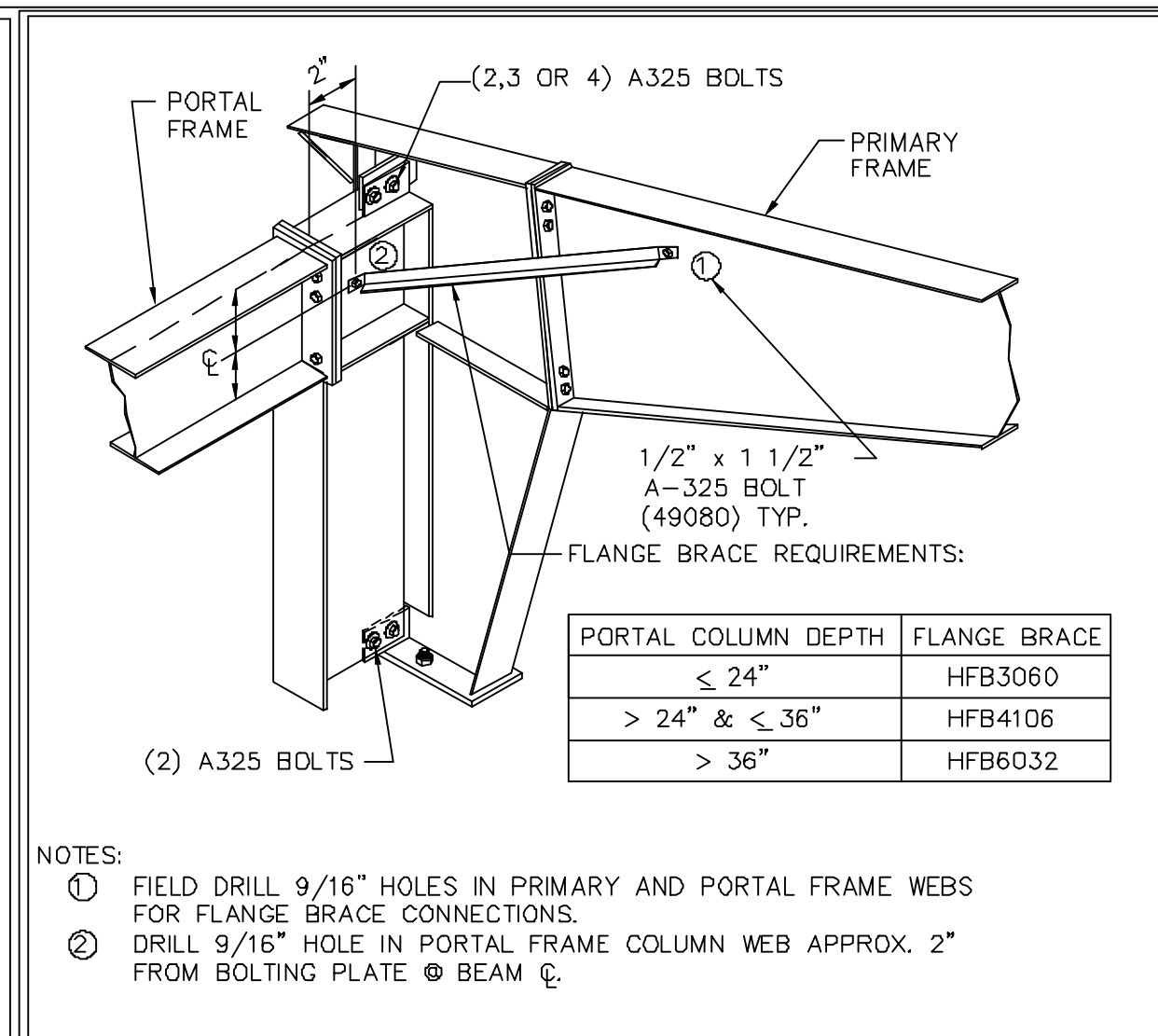
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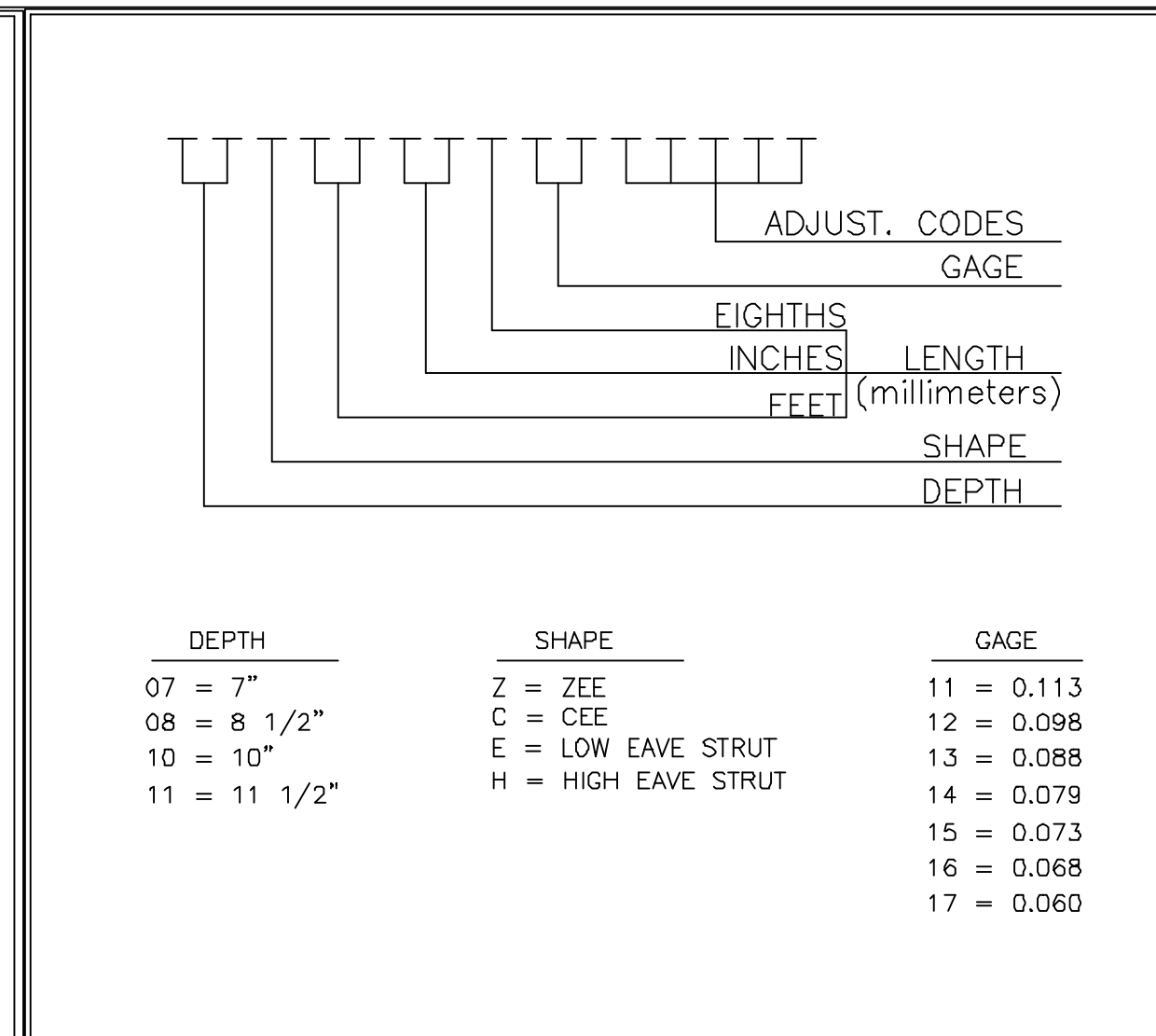




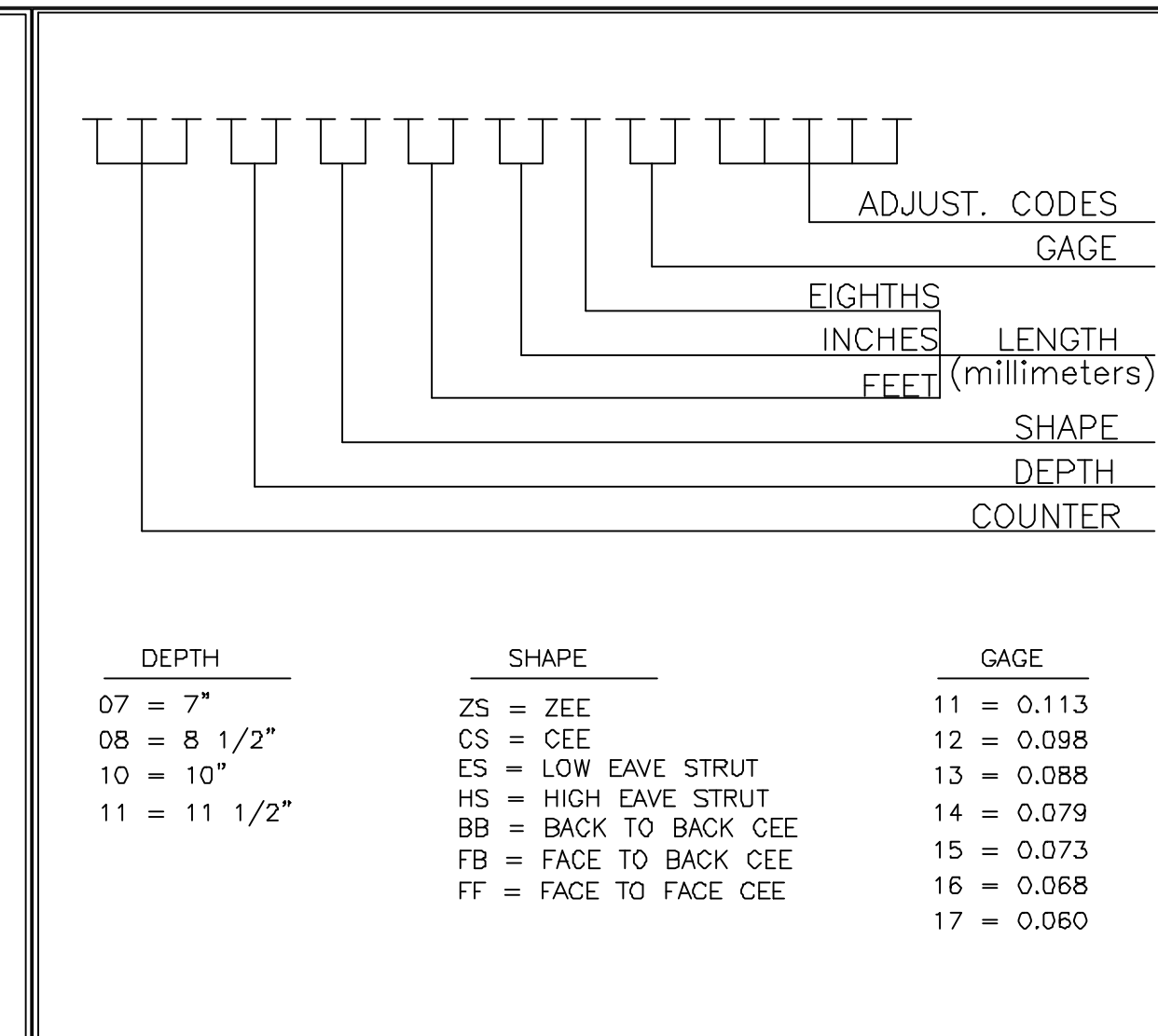
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 TYPICAL FLANGE BRACE CONNECTIONS  
 BR06AE CONT. PURLIN LAP SHOWN, CONT. GIRTS & SIMPLE PURLIN



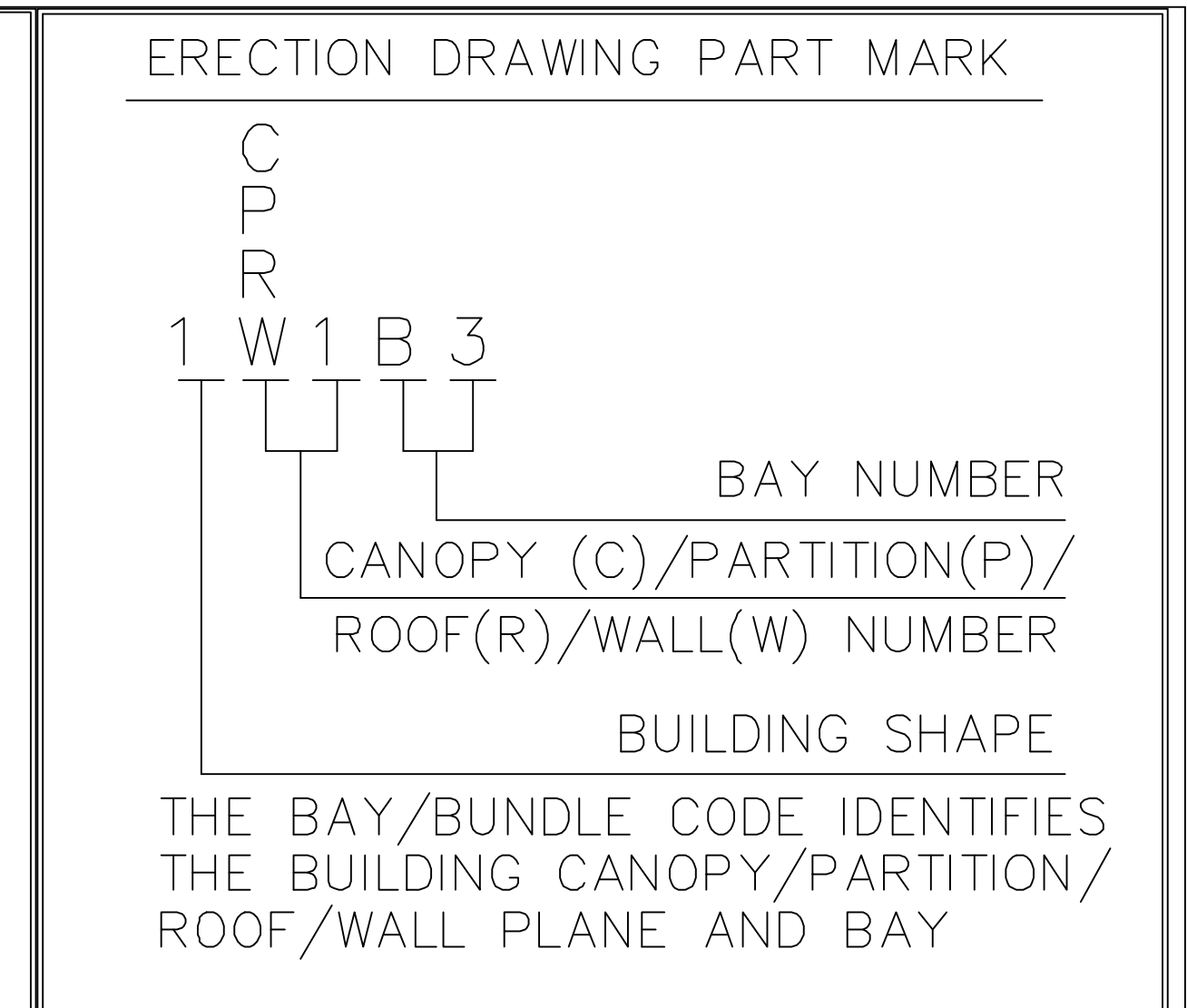
REV. DATE: 03/17/18 REV. NO. 03  
 FLUSH PORTAL FRAME CONNECTION  
 BR12K1 FLANGE BRACE CONNECTION AND LOCATION



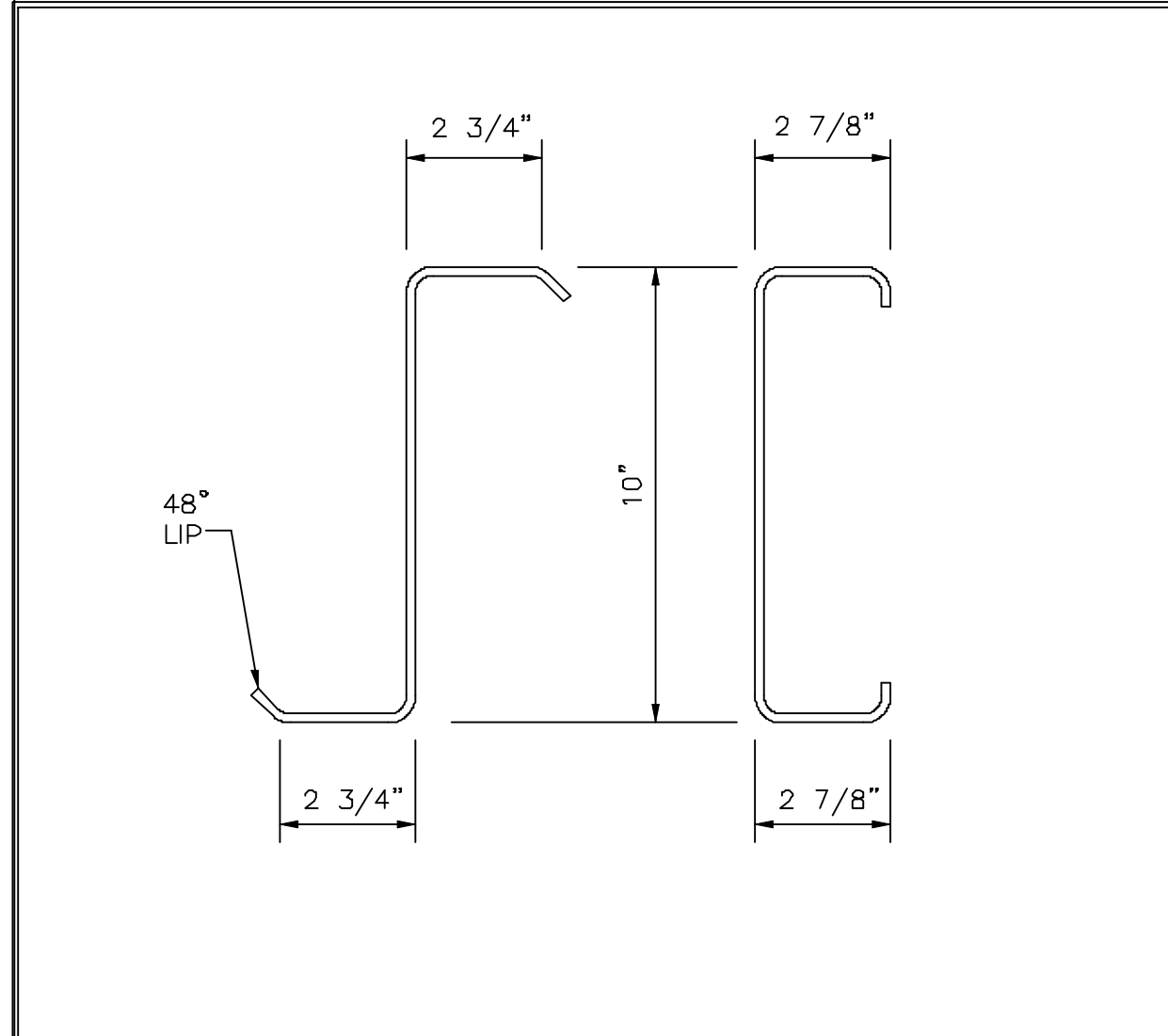
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 SECONDARY PART MARK NUMBER  
 EN51B1 COMMON GENERATED MARK NUMBERS



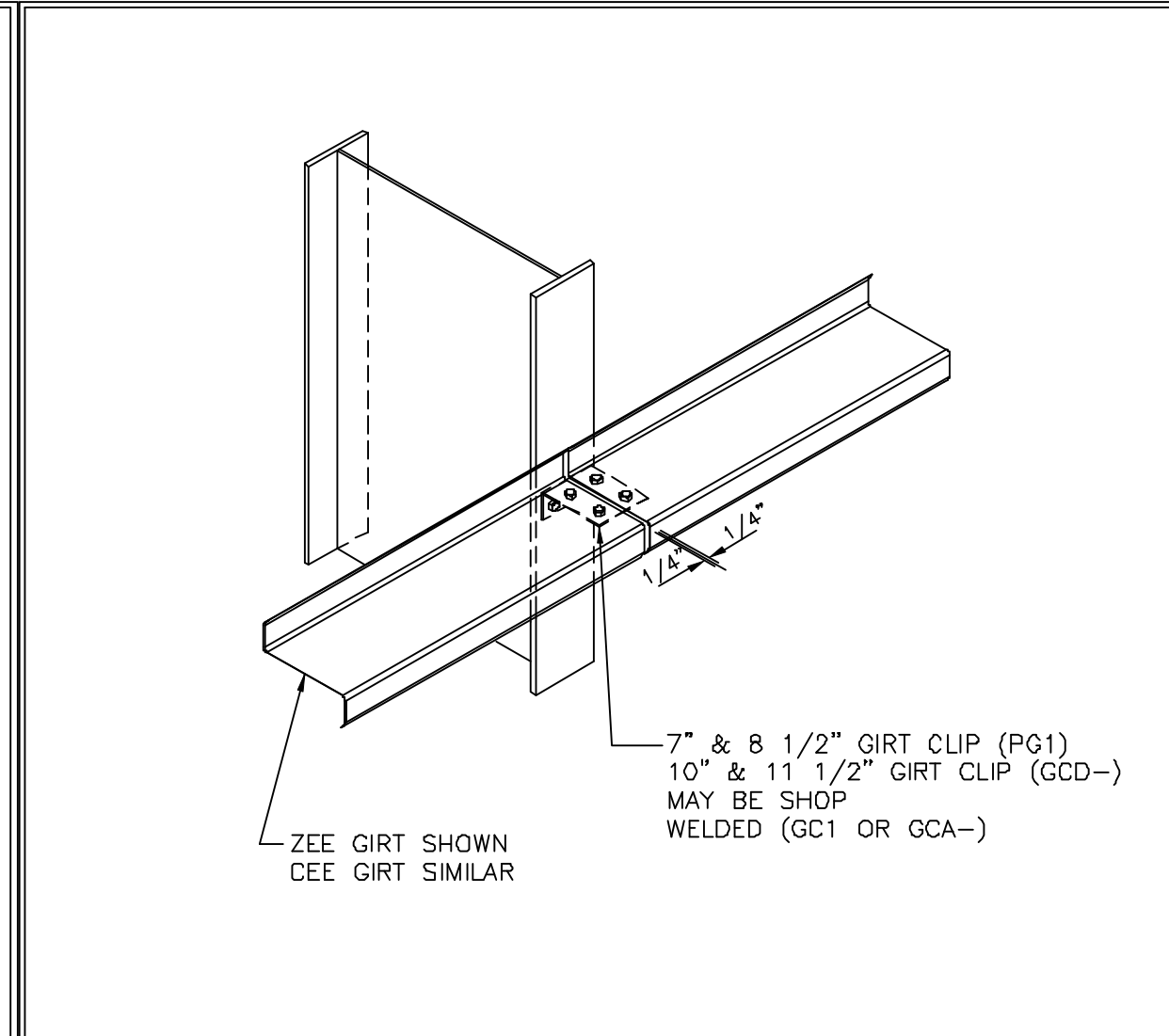
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 SPECIAL SECONDARY PART MARK KEY  
 EN51B2 COMMON GENERATED MARK NUMBERS



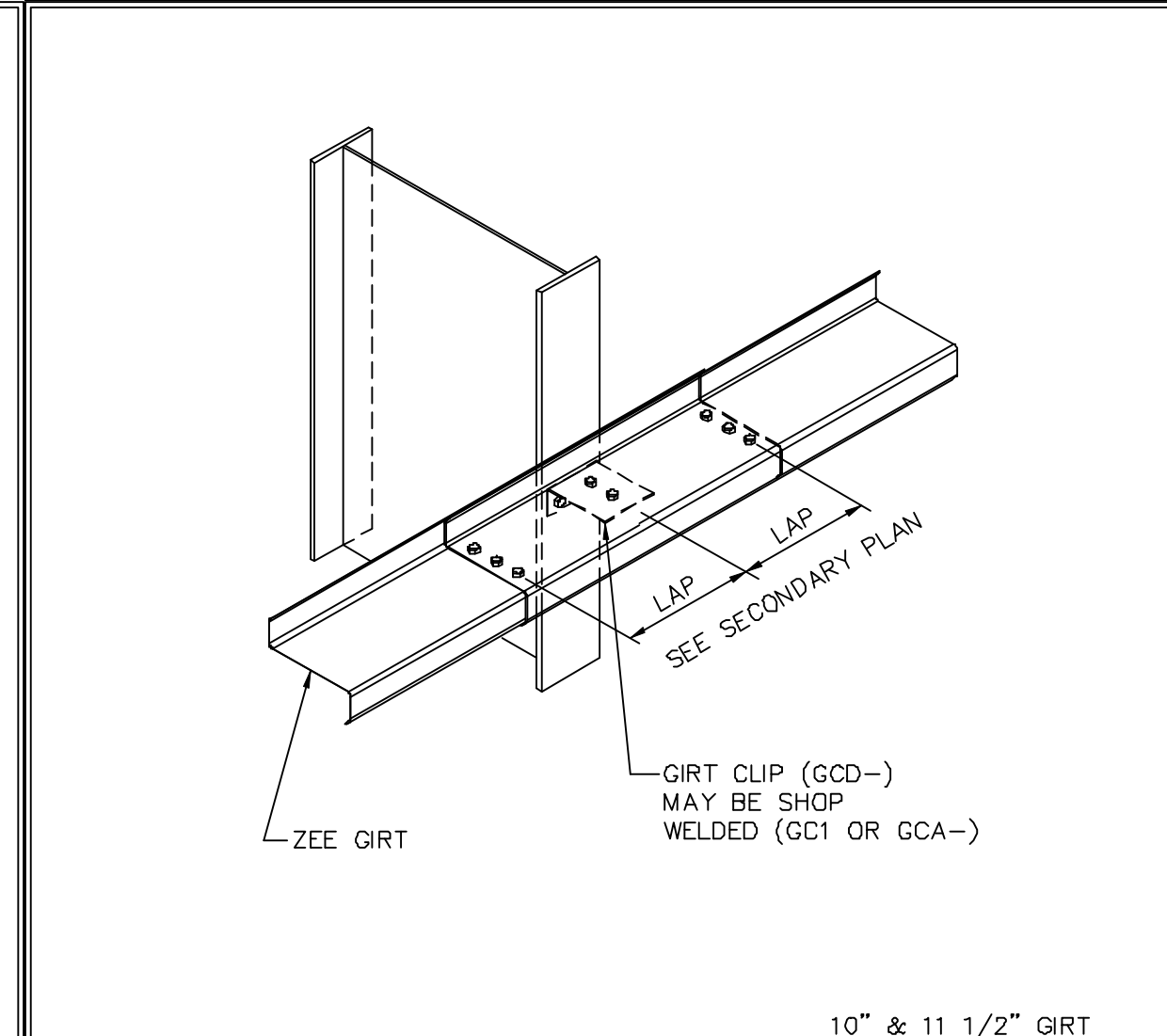
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 SECONDARY BUNDLE LOCATION KEY  
 EN51B3 ALL SECONDARY DEPTHS



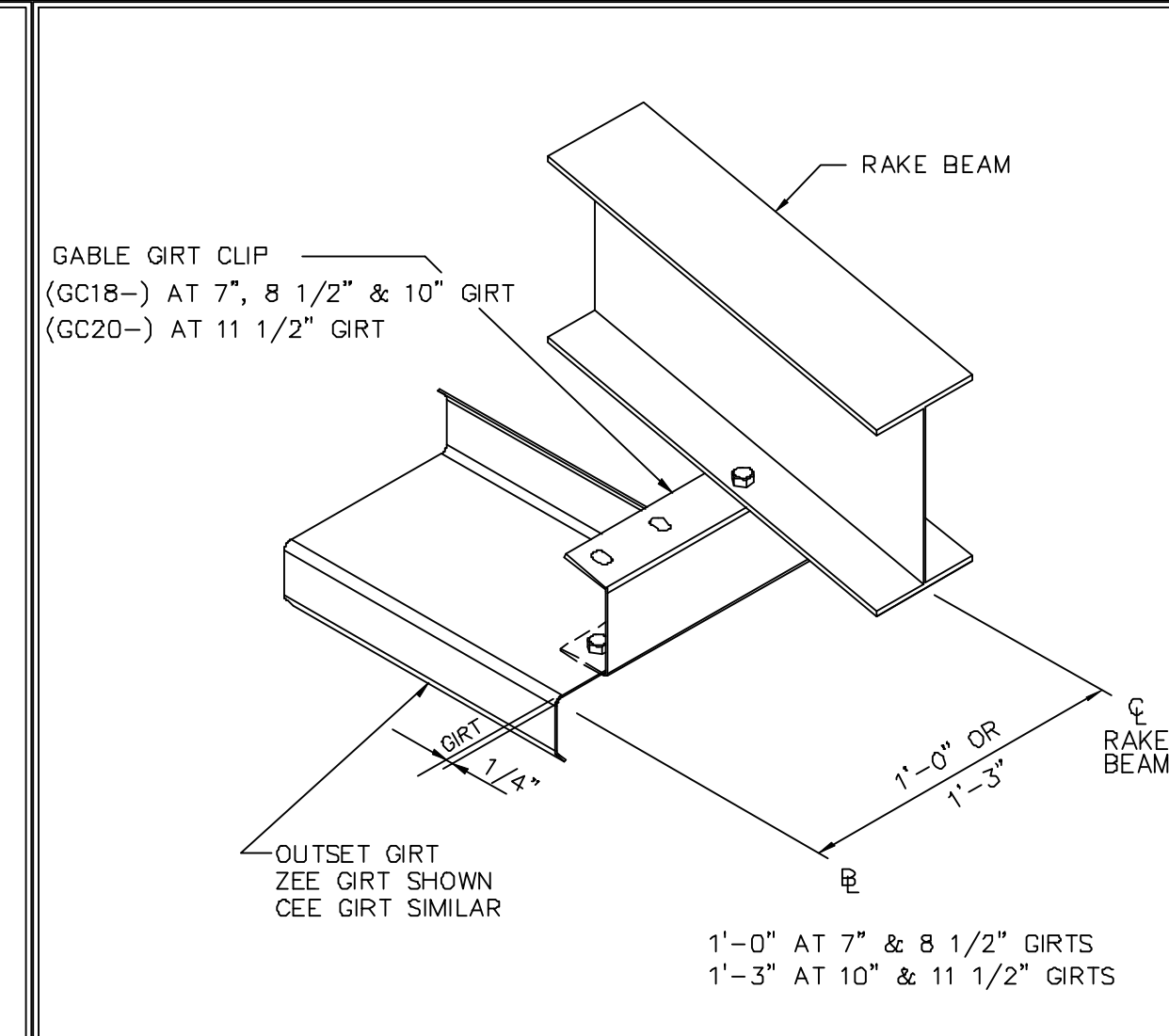
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 EN53G1



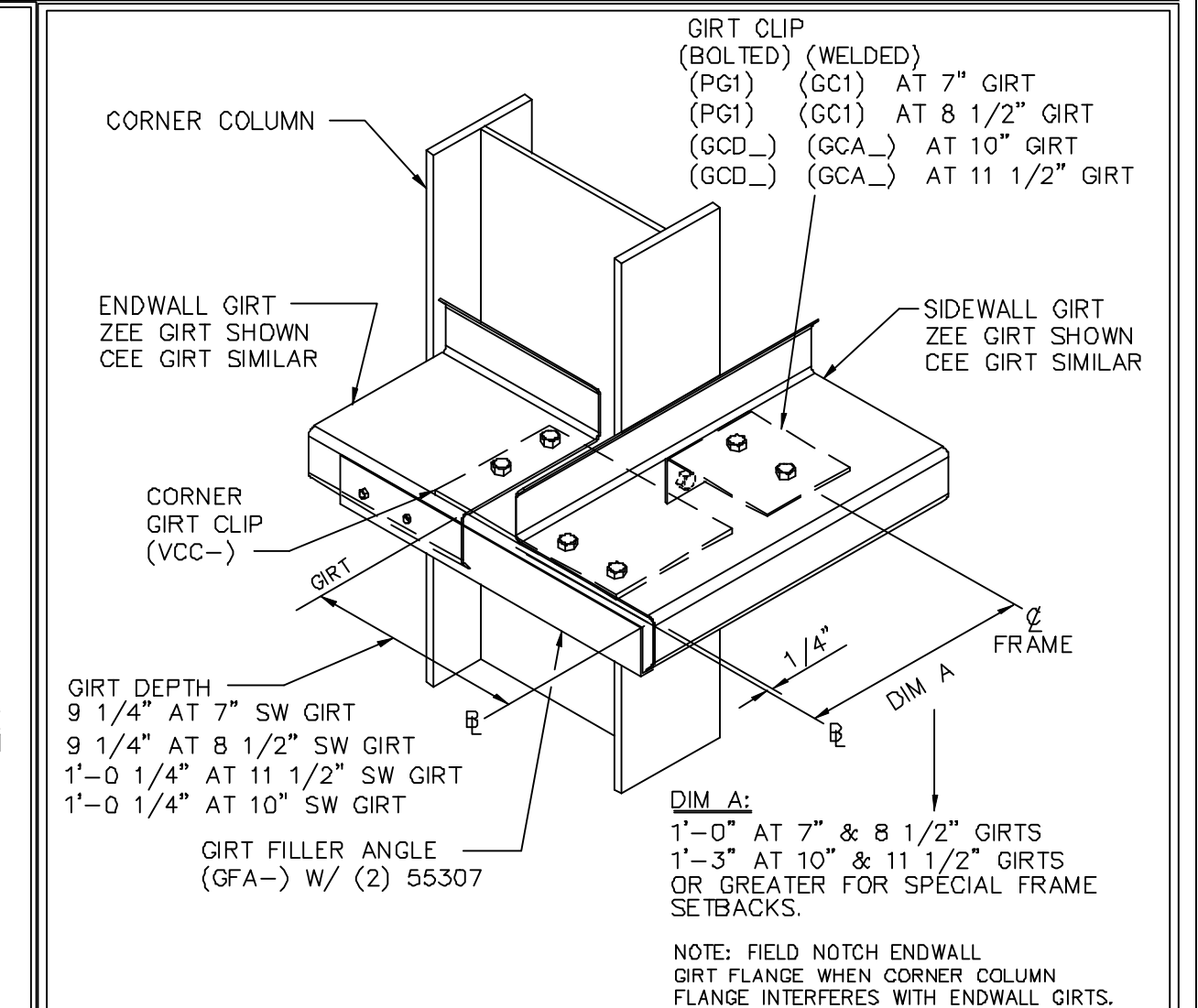
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 WS01G2



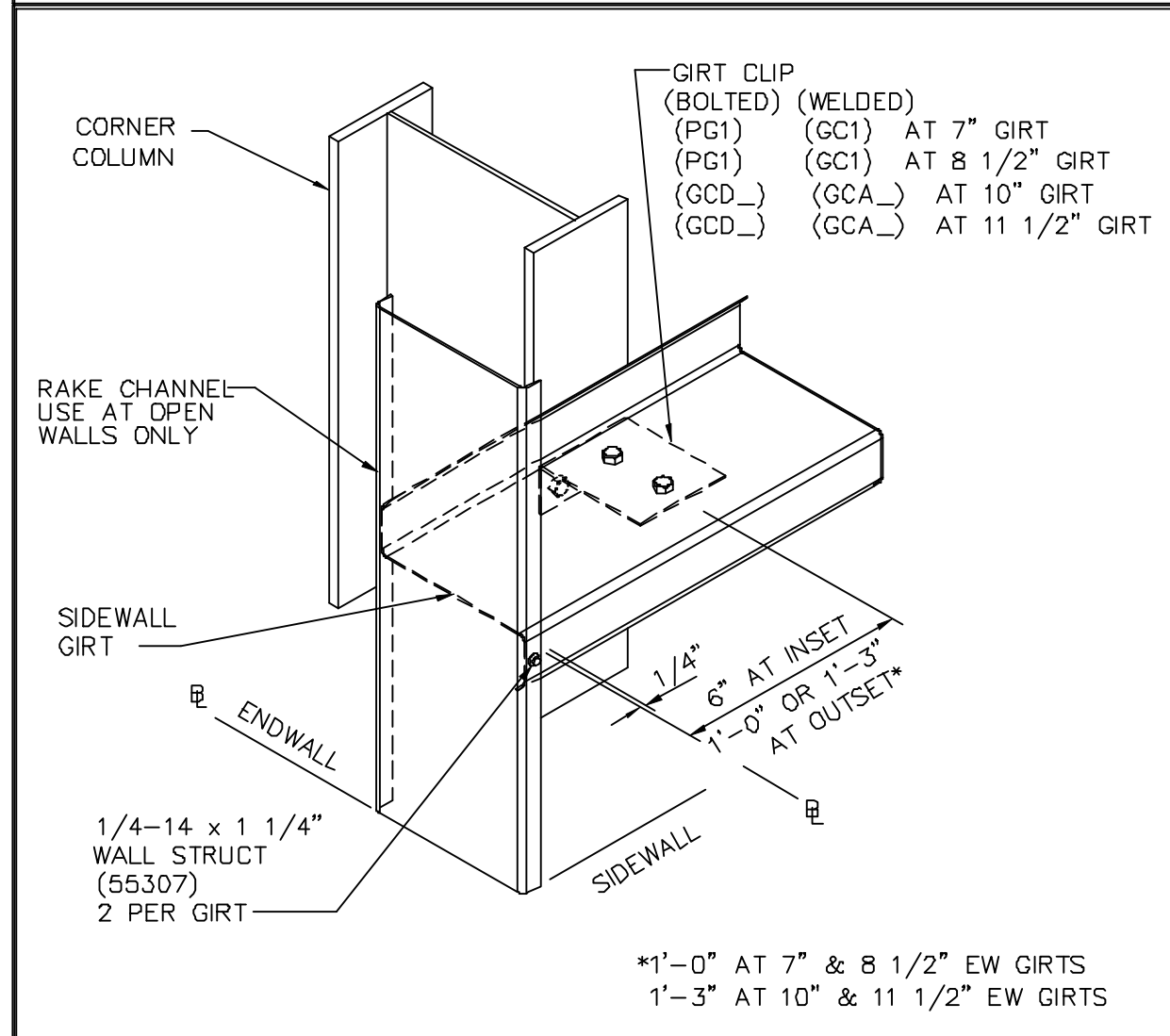
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 WS01V3



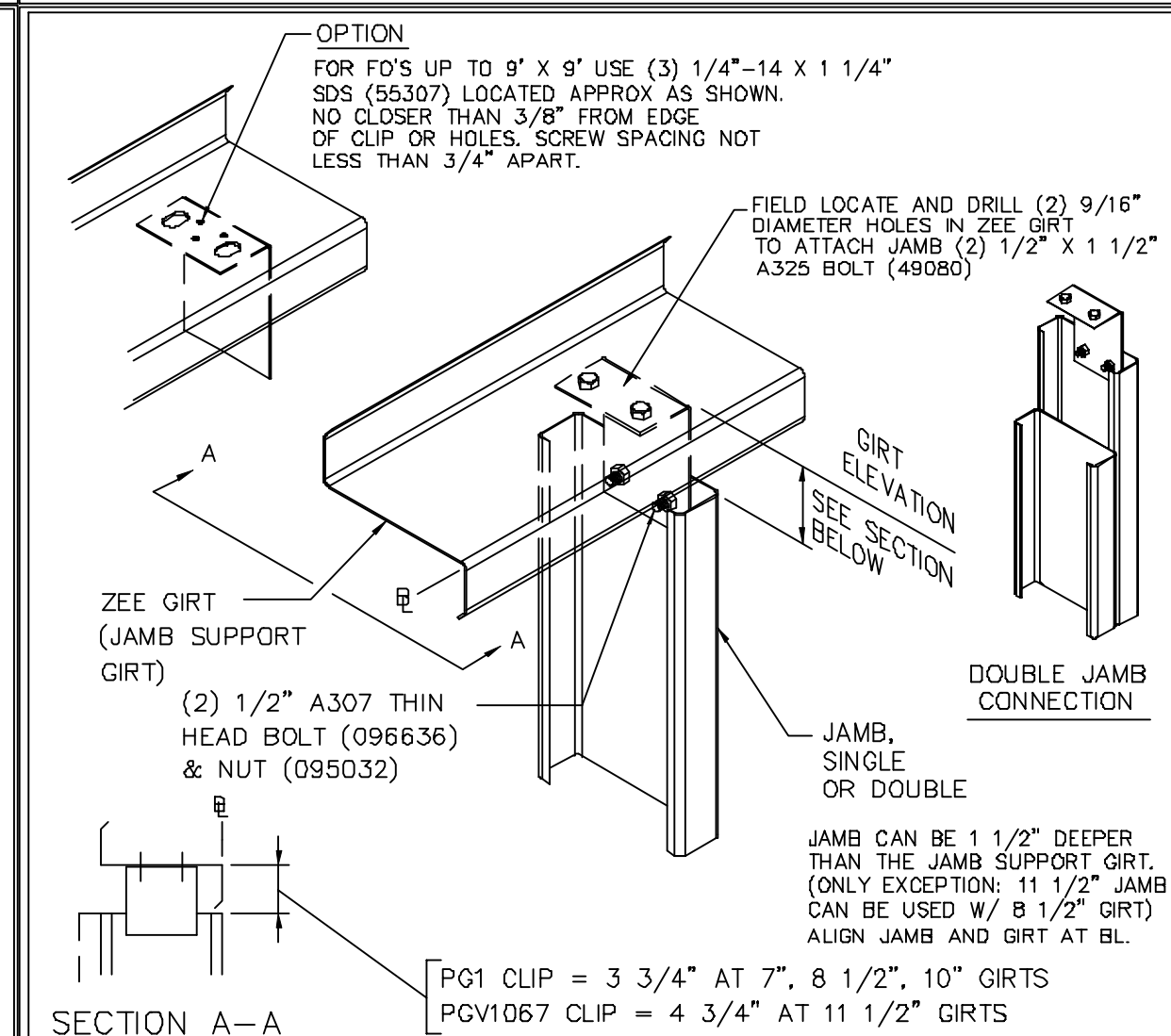
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 WS04C2



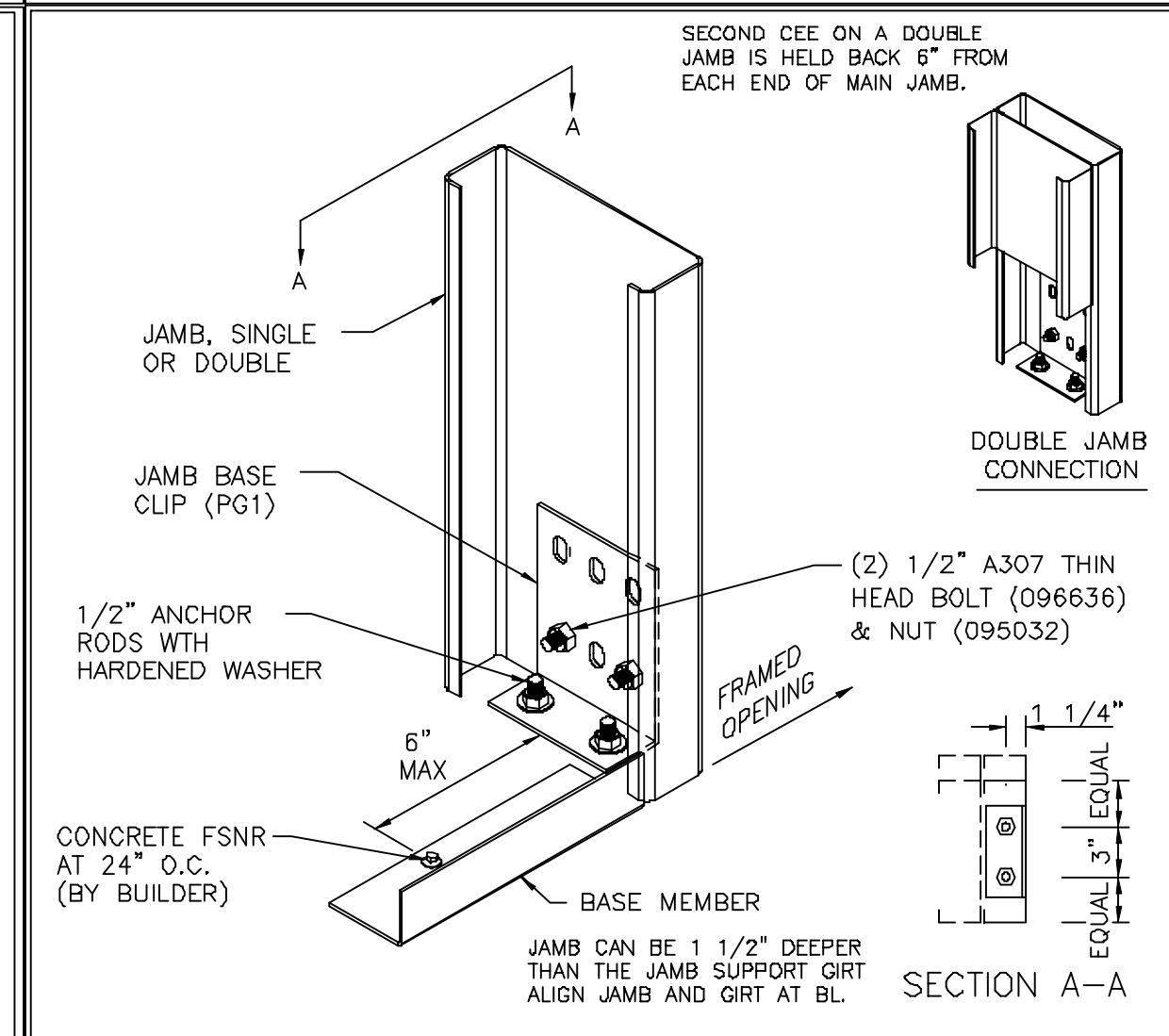
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 WS12A2



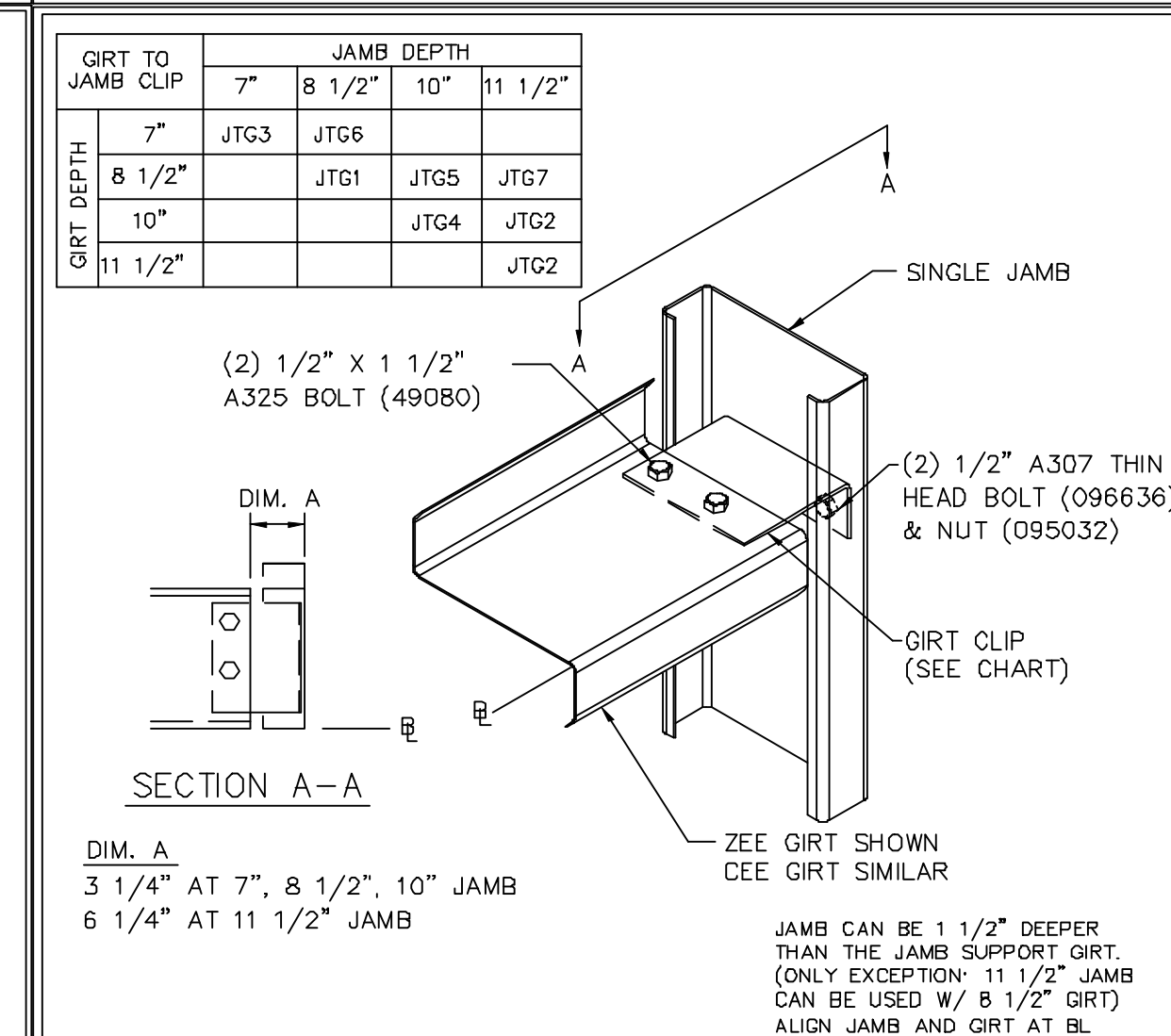
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 WS12H6



REV. DATE: 11/30/15 REV. NO. 03  
 WS20B2



REV. DATE: 07/01/09 REV. NO. 00  
 WS20B8



REV. DATE: 07/21/15 REV. NO. 04  
 WS20F2

**MMSA**  
 STRUCTURAL ENGINEERS  
 RECEIVED: 08/01/2024

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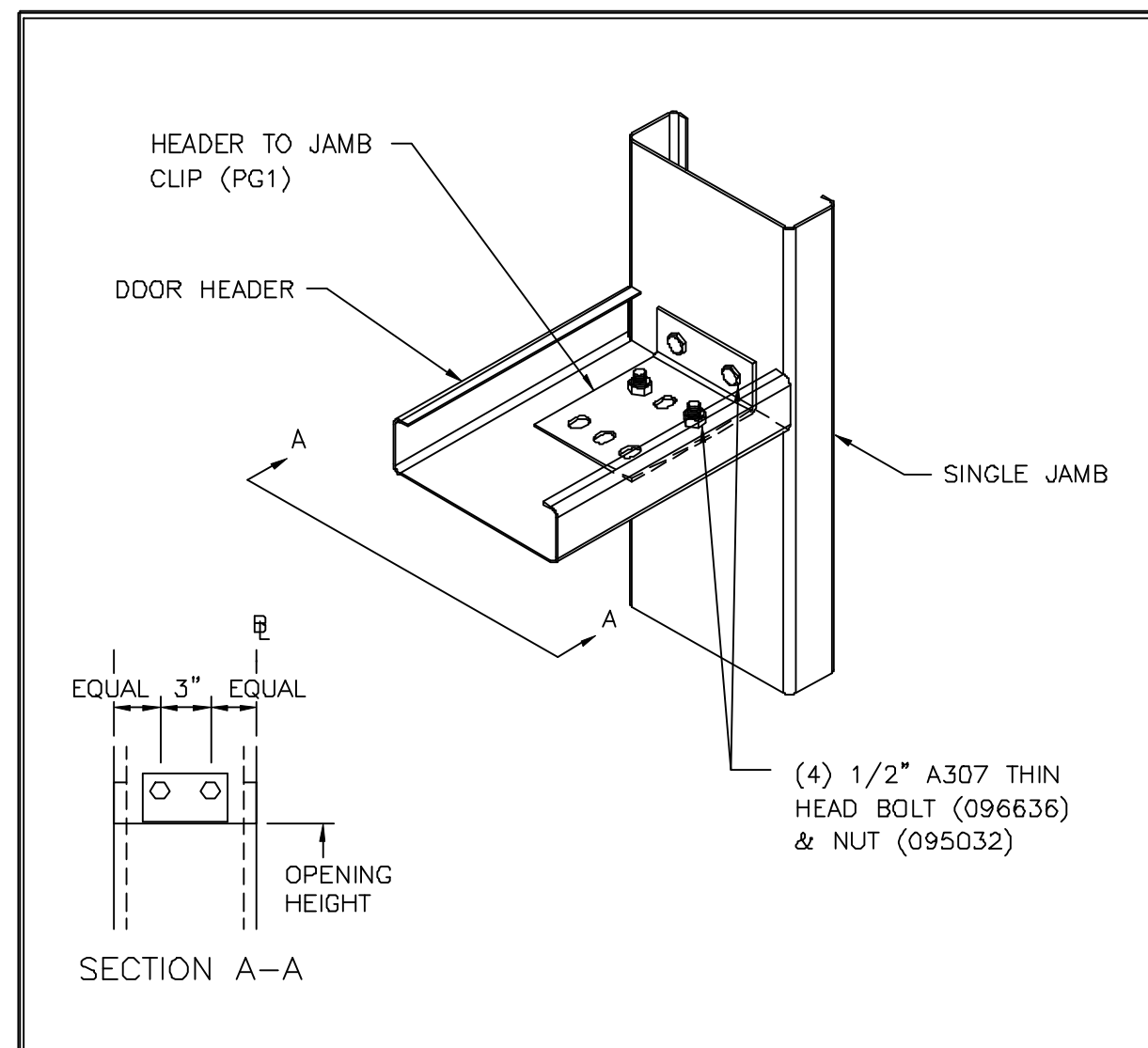
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 2. FLANGE BRACES ARE AN INTEGRAL PART OF THE STABILITY OF THE STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION OF WALL AND ROOF SHEETS.  
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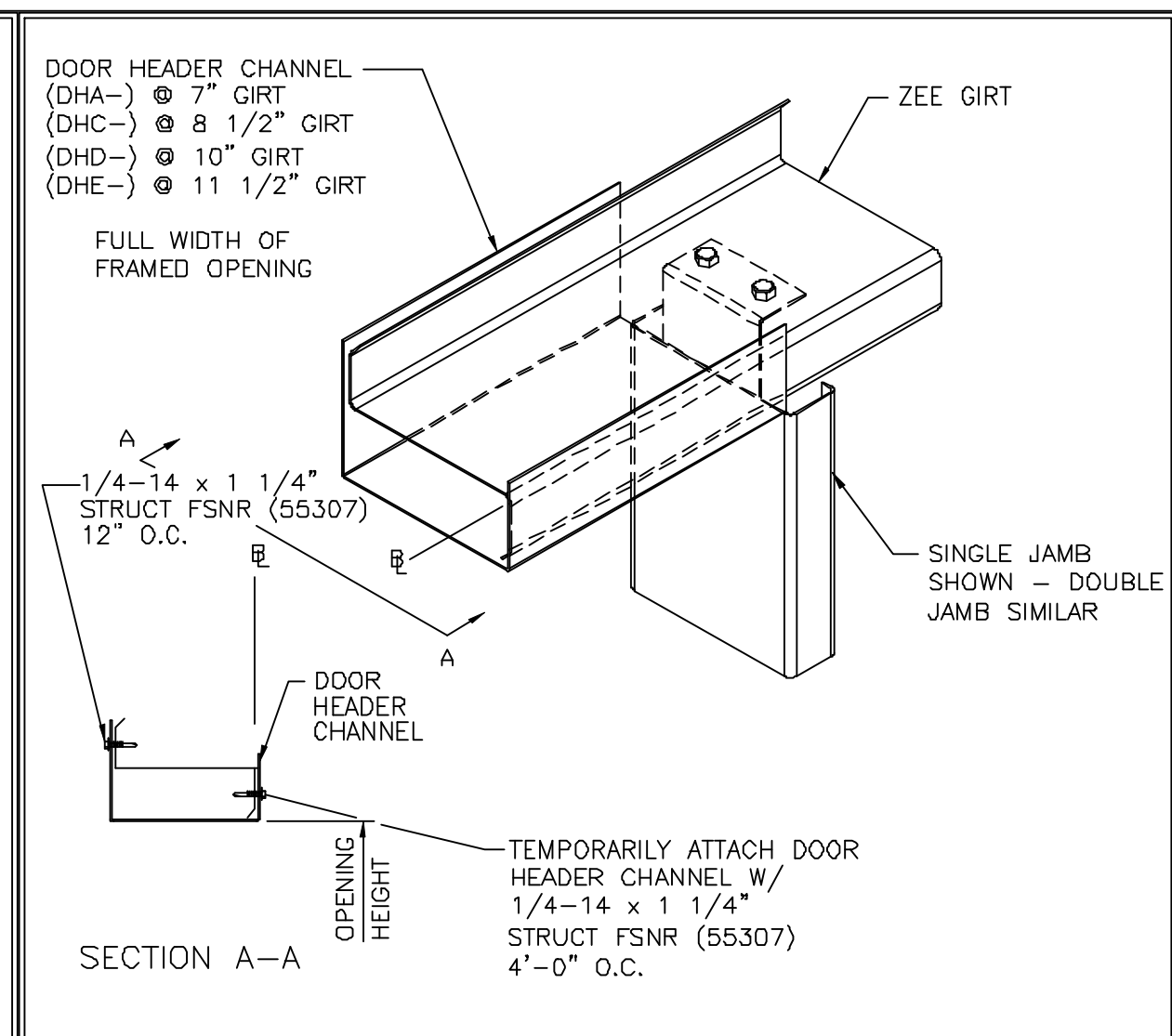
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REV	DATE	BY	DESCRIPTION

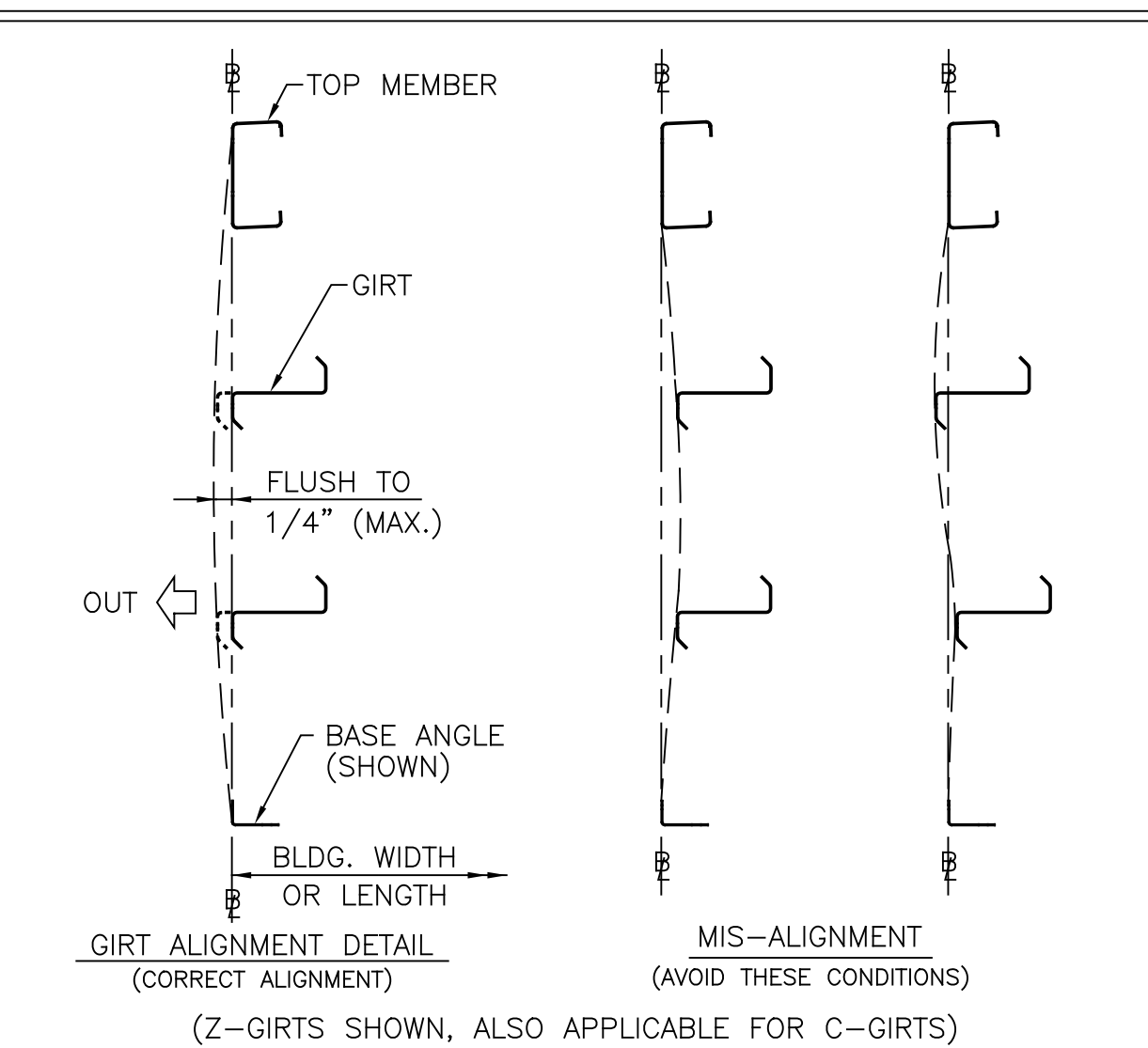
VP Buildings		WALL SECONDARY SED'S (a)	
3200 Players Club Circle Memphis TN 38125		BUILDER	Lemartec Corporation
		CUSTOMER	Duke Energy
		LOCATION	Dunn, North Carolina
		PROJECT	Duke Energy Dunn Operations Center - Operations
		BUILDERS PO#	23068 - Ops
		VP VERSION:	24.1.1
		FILENAME:	Duke Energy - Ops
		JOBNO	23-016001-02
		DATE	3/14/2024
		DRAWN/CHECK	CAL WSM
		PAGE	65



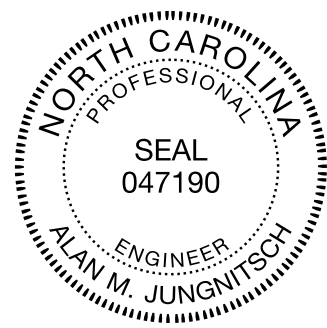
REV. DATE: 07/01/09 | REV. NO. 00  
 WS20F9 | HEADER TO JAMB ANY HEADER, ANY SINGLE JAMB



REV. DATE: 07/01/09 | REV. NO. 00  
 WS21D7 | DOOR HEADER CHANNEL CONN. ANY ZEE GIRT, ANY JAMB



REV. DATE: 06/23/22 | REV. NO. 00  
 WSR065 | WALL SECONDARY FRAMING ALIGNMENT



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05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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.  
 3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

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D	VP Buildings		
	3200 Players Club Circle Memphis TN 38125		
REV	DATE	BY	DESCRIPTION
NTS			

<b>WALL SECONDARY SED'S (b)</b>		 VP BUILDINGS VARCO PRUDEN A BlueScope Steel Company	JOBNO 23-016001-02
BUILDER Lemartec Corporation	CUSTOMER Duke Energy		DATE 3/14/2024
LOCATION Dunn, North Carolina	PROJECT Duke Energy Dunn Operations Center - Operations	DRAWN/CHECK CAL WSM	PAGE 66
BUILDERS PO# 23068 - Ops	VPC VERSION: 24.1.1	FILENAME: Duke Energy - Ops	

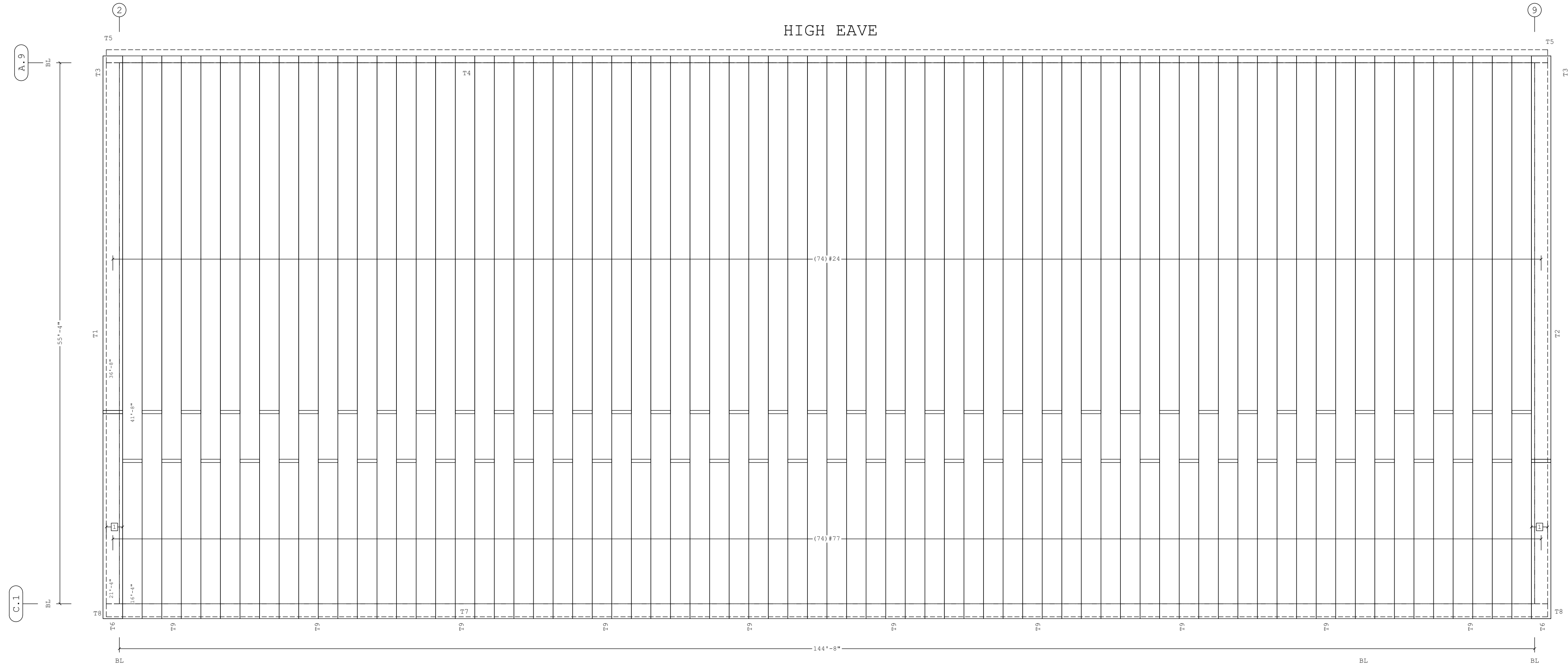
Covering Schedule									
Id	Qty	Start Length	Qty	Stagger Length	Type	Gage	OP	Fin.	Color
#77	37	21'-4"	37	16'-4"	SSR	24	2	G	TD
#24	37	36'-8"	37	41'-8"	SSR	24	2	G	TD

Oper. Code:2=SQ, SQ  
Finish:G=Galvalume  
Color:TD=Standard Color

Trim Schedule	
Id	Parts
T1	(5.5)RFR10-33, (2)RKF20, RKF16, (6)RSB10, (6)RSC10, (6)STC10B
T2	(5.5)RFR10-33, (2)RKF20, RKF16, (6)RSB10, (6)RSC10, (6)STC10B
T3	(0.1)RFR10-33, RKF10, RSB10, RSC10, STC10B
T4	(15)HSEP1, (14.7)RFR10-33, (7)RKF20, RKF10, (15)SET10A
T5	MCC1
T6	(0.1)RFR10-33, RKF10, RSB10, RSC10, STC10B
T7	(15)SET10A, (8)TAL1, (7)EG201, EG121, (38)STR4
T8	BS1, FPRF1, GG1, MCC1
T9	(2)5CE75, CP510

Color	Details
Cool Cotton White	RC10A2, RC30A9
Cool Cotton White	RC10A2, RC30A9
Cool Cotton White	RC10A2, RC30A9
Cool Cotton White	RC00A1, RCV420, RCV421, RCV422, RCV432, RCV531
Cool Cotton White	RC38A7
Cool Cotton White	RC10A2, RC30A9
Cool Cotton White	RC38E1, RCV009, RCV324, RCV536
Cool Cotton White	RC38N1
Cool Cotton White	RC38R1

Note: Use SSR extra tall clips on this roof.



Fastener Schedule	
PART	Description
0097584-102	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-102	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer

Accessory Schedule			
Qty	Color	Description	Detail
4	Not Applicable	Dektite Kit #3 1/4" - 4"	RA14A1, RA14B1, RA14D1

Dimension Key  
1 1'-8" Starter Panel (Cut Dim. = 1'-9")  
detailed for a UL90 rating Construction #113 or 113A  
- The roof panels on this project has been"

Shape Name = GARAGE BAYS, Shape = GARAGE BAYS, Shape = GARAGE BAYS

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NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

FOR CONSTRUCTION

- PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS
- STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.
- DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE FIELD CUTTING. SEE THE COVERING SCHEDULE FOR CUT LENGTHS.
- SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.

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VP Buildings			
3200 Players Club Circle Memphis TN 38125			
REV	DATE	BY	DESCRIPTION
NTS			

ROOF COVERING PLAN			
BUILDER	Lemartec Corporation	JOBNO	23-016001-02
CUSTOMER	Duke Energy	DATE	5/1/2024
LOCATION	Dunn, North Carolina	DRAWN/CHECK	LKH SM/CS
PROJECT	Duke Energy Dunn Operations Center - Operations	PAGE	39
BUILDERS PO#	23068 - Ops		



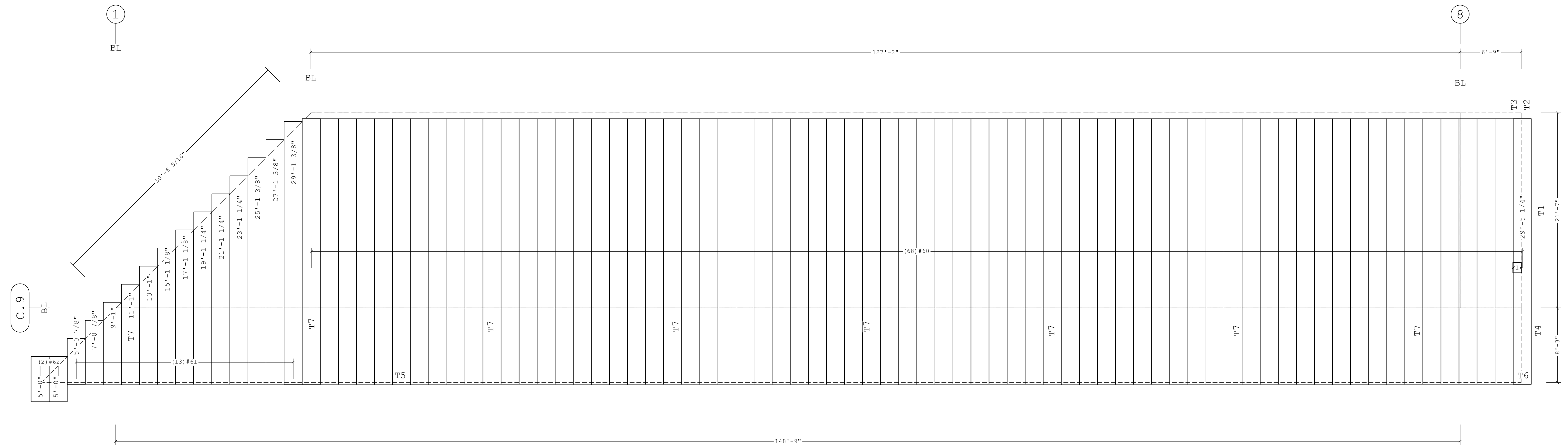
Covering Schedule									
Id	Qty	Start Length	Qty	Stagger Length	Type	Gage	OP	Fin.	Color
#60	68	29'-5 1/4"			SSR	24	2	G	TD
#61	13	29'-1 3/8"			SSR	24	2	G	TD
#62	2	5'-0"			SSR	24	2	G	TD

Oper. Code:2=SQ, SQ  
Finish:G=Galvalume  
Color:TD=Standard Color

Trim Schedule	
Id	Parts
T1	(2.2)RFR10-33, RKF16, RKF10, (3)RSB10, (3)RSC10, (3)STC10A
T2	HCPOL, MCC1
T3	HCPOR, MCC1
T4	(0.8)RFR10-33, RKF10, RSB10, RSC10, STC10A
T5	(16)SET10A, SET05A, (9)TAL1, (8)EG201, EG121, (43)STR4
T6	BS1, FPRF1, GGCL, MCC1
T7	(2)5CE75, CP510

Color	Details
Cool Cotton White	RC10A1, RC30A9
Cool Cotton White	RC50H3
Cool Cotton White	RC50H3
Cool Cotton White	RC10A1, RC30A9
Cool Cotton White	RC38E1, RCV009, RCV324, RCV536
Cool Cotton White	RC38N1
Cool Cotton White	RC38R1

Note: Use SSR short clips on these roofs, with 1/2" thick thermal blocks. See planograph S-090028.



ROOF COVERING PLAN A

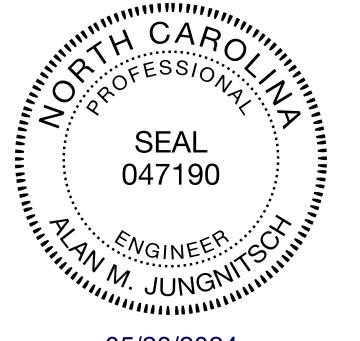
Fastener Schedule		
PART	Description	
0097584-102	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer	
0097581-102	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer	

Accessory Schedule			
Qty	Color	Description	Detail
4	Not Applicable	Dektite Kit #3 1/4" - 4"	RA14A1, RA14B1, RA14D1

Dimension Key  
 1 10 1/2" Starter Panel (Cut Dim. = 11 1/2")  
 2 128'-2 1/2" Starter Panel (Cut Dim. = 128'-3 1/2")  
 - detailed for a UL90 rating Construction #113 or 113A  
 - The roof panels on this project has been"



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 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

FOR CONSTRUCTION

Shape Name = CANOPY 1, Shape = CANOPY 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.	THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.	THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. 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 VP BUILDINGS.  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 VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.	<b>D</b> VP Buildings 3200 Players Club Circle Memphis TN 38125	<b>ROOF COVERING PLAN A</b>	
				REV   DATE   BY   DESCRIPTION	BUILDER Lemartec Corporation CUSTOMER Duke Energy LOCATION Dunn, North Carolina PROJECT Duke Energy Dunn Operations Center - Operations BUILDERS FOR 23068 - Ops

Id	Qty	Start Length	Qty	Stagger Length	Type	Gage	OP	Fin.	Color
#63	2	5'-0"			SSR	24	2	G	TD
#64	13	5'-8 3/8"			SSR	24	2	G	TD
#65	28	29'-5 1/4"			SSR	24	2	G	TD
#66	13	29'-9"			SSR	24	2	G	TD
#67	2	5'-0"			SSR	24	2	G	TD

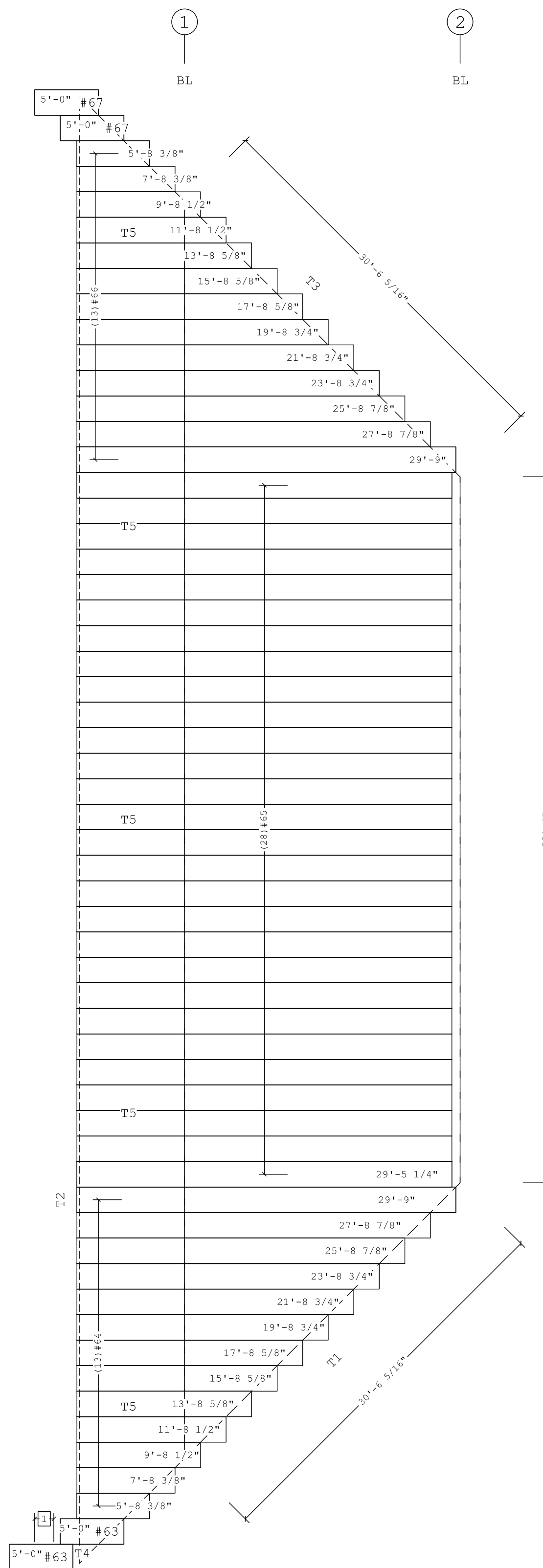
Oper. Code:2=SQ, SQ  
Finish:G=Galvalume  
Color:TD=Standard Color

Note: Use SSR short clips on these roofs, with 1/2" thick thermal blocks. See planograph S-090028.

Part	Description
0097584-102	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-102	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer

Qty	Color	Description	Detail
4	Not Applicable	Dektite Kit #3 1/4" - 4"	RA14A1, RA14B1, RA14D1

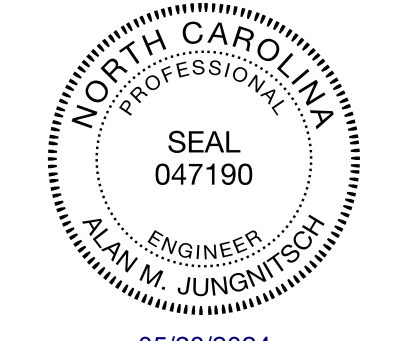
Dimension Key  
 1 1'-6" Starter Panel (Cut Dim. = 1'-7")  
 2 55'-9" Starter Panel (Cut Dim. = 55'-10")  
 - detailed for a UL90 rating Construction #113 or 113A  
 - The roof panels on this project has been"



Trim Id	Parts	Color	Details
T1	(4)HPL9175, (2)SHCF, (2)SHCM	Standard Color	RC70A1, RC70A2, RC70A3, RC70A4, RC70A6, RC70A7, RC70A8, RS70A3, RS70A4
T2	(1)SET10A, SET05A, (6)TAll, (5)EG201, EG161, (30)STR4	Cool Cotton White	RC38E1, RCV009, RCV324, RCV536
T3	(4)HPL9175, (2)SHCF, (2)SHCM	Cool Cotton White	RC70A1, RC70A2, RC70A3, RC70A4, RC70A6, RC70A7, RC70A8, RS70A3, RS70A4
T4	BS1, FPRF1, GGCI, MCC1	Cool Cotton White	RC38N1
T5	(2)5CE75, CP510	Cool Cotton White	RC38R1



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 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**FOR CONSTRUCTION**

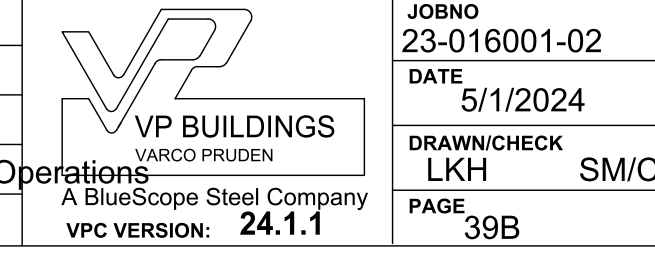
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 2. STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.  
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REV	DATE	BY	DESCRIPTION
D			VP Buildings 3200 Players Club Circle Memphis TN 38125

VP BUILDINGS		ROOF COVERING PLAN B	
BUILDER	Lemartec Corporation	CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina	PROJECT	Duke Energy Dunn Operations Center - Operations
BUILDERS FOR	23068 - Ops	VP VERSION:	24.1.1



JOBNO  
23-016001-02  
DATE  
5/1/2024  
DRAWN/CHECK  
LKH SM/CS  
PAGE  
39B

Covering Schedule

Id	Qty	Start Length	Qty	Stagger Length	Type	Gage	OP	Fin.	Color
#68	68	29'-5 1/4"			SSR	24	2	G	TD
#72	13	29'-1 3/8"			SSR	24	2	G	TD
#74	1	5'-0"			SSR	24	2	G	TD
#73	1	5'-0"			SSR	24	2	G	TD

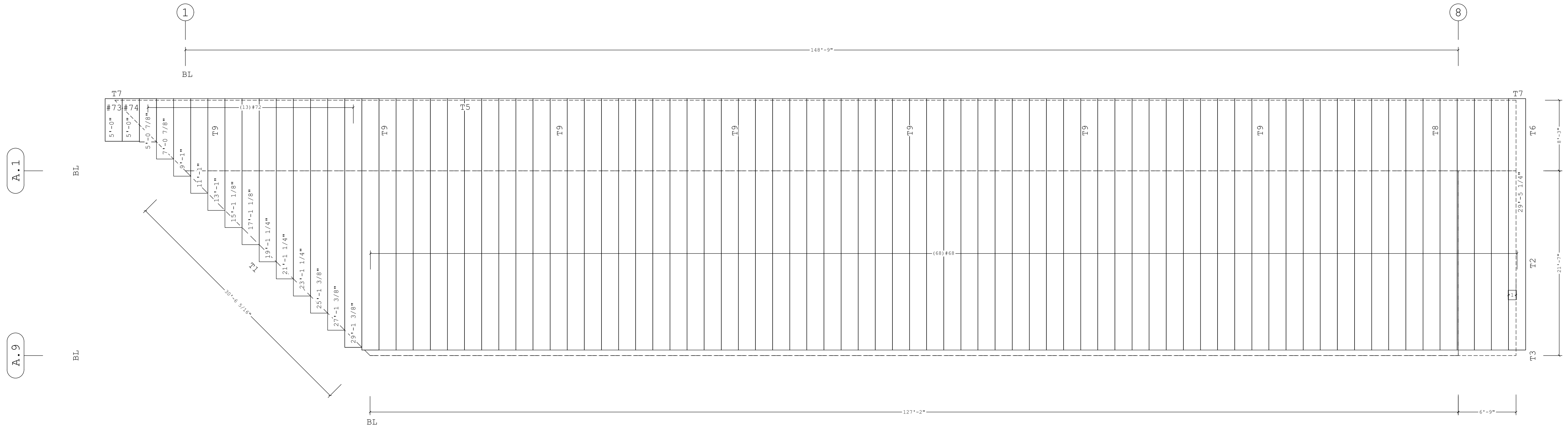
Oper. Code:2=SQ, SQ  
Finish:G=Galvalume  
Color:TD=Standard Color

Trim Schedule

Id	Parts
T1	(4)HPL9175, (2)SHCF, (2)SHCM
T2	(2.2)RFR10-33, RKF16, RKF10, (3)RSB10, (3)RSC10, (3)STC10A
T3	HCP0R, MCC1
T4	HCP0L, MCC1
T5	(16)SET10A, SET05A, (9)TA11, (8)EG201, EG121, (43)STR4
T6	(0.8)RFR10-33, RKF10, RSB10, RSC10, STC10A
T7	BS1, FPRF1, GGCI, MCC1
T8	SCE75, CP510, DN1, (2)DST1
T9	(2)SCE75, CP510, DN1, (2)DST1

Color	Details
Standard Color	RC70A1, RC70A2, RC70A3, RC70A4, RC70A6, RC70A7, RC70A8, RS70A3, RS70A4
Cool Cotton White	RC10A1, RC30A9
Cool Cotton White	RC50H3
Cool Cotton White	RC50H3
Cool Cotton White	RC38E1, RCV009, RCV324, RCV536
Cool Cotton White	RC10A1, RC30A9
Cool Cotton White	RC38N1
Cool Cotton White	RC38P1
Cool Cotton White	RC38P1, RC38R1

Note: Use SSR short clips on these roofs, with 1/2" thick thermal blocks. See planograph S-090028.



ROOF COVERING PLAN C

Fastener Schedule

FART	Description
0097584-102	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-102	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer

Accessory Schedule

Qty	Color	Description	Detail
4	Not Applicable	Dektite Kit #3 1/4" - 4"	RA14A1, RA14B1, RA14D1

Dimension Key  
1 10 1/2" Starter Panel (Cut Dim. = 11 1/2")  
2 128"-2 1/2" Starter Panel (Cut Dim. = 128"-3 1/2")  
detailed for a UL90 rating Construction #113 or 113A  
- The roof panels on this project has been"

Shape Name = CANOPY 3, Shape = CANOPY 3



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NORTH CAROLINA REGISTERED ENGINEERING  
FIRM F-0998

FOR CONSTRUCTION

MODIFIED IN AUTOCAD

- PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS
- STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.
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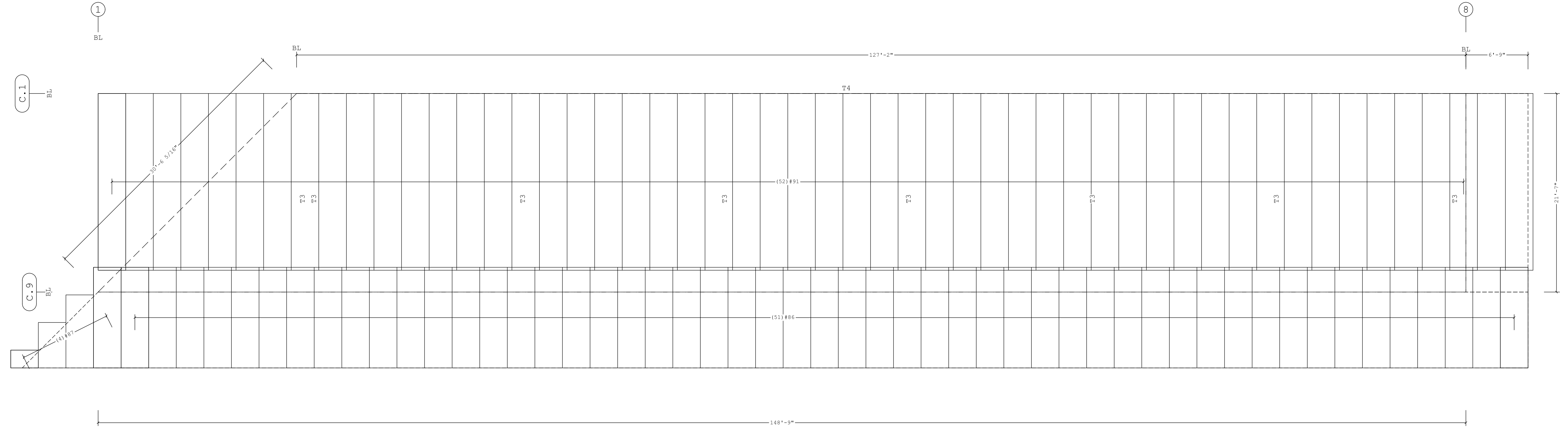
REV	DATE	BY	DESCRIPTION
D			VP Buildings 3200 Players Club Circle Memphis TN 38125
			NTS

VP BUILDINGS		ROOF COVERING PLAN C	
BUILDER	Lemartec Corporation	JOBNO	23-016001-02
CUSTOMER	Duke Energy	DATE	5/1/2024
LOCATION	Dunn, North Carolina	DRAWN/CHECK	LKH SM/CS
PROJECT	Duke Energy Dunn Operations Center - Operations	PAGE	39C
BUILDERS FOR	23068 - Ops		

Liner/Soffit Schedule								
Id	Qty	Type	Length	Gage	OP	Finish Color	Direction	Cut
#91	50	PR	19'-3"	26	1	K OW	Left to Right	
#86	51	PR	10'-11 1/2"	26	1	K OW	Left to Right	
#87	4	PR	10'-11 1/2"	26	1	K OW	Left to Right	

Oper. Code:1=SQ, SQ  
 Finish:K=KXL (Kynar)  
 Color:OW=Cool Cotton White

Liner Trim Schedule			Color	Details
Id	Parts			
T3	(5)JT10		Cool Cotton White	WC61A9
T4	(9)HT14, HT05, HT10		Cool Cotton White	WC51CA

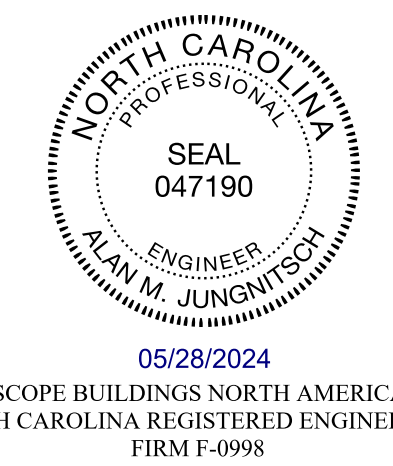


ROOF LINER PLAN  
(View from outside Building)

Fastener Schedule	
PART	Description
0097584-102	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-102	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer



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BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

Shape Name = CANOPY 1, Shape = CANOPY 1

FOR CONSTRUCTION

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.	THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.	THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. 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 VP BUILDINGS.  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 VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.	<b>D</b> VP Buildings 3200 Players Club Circle Memphis TN 38125	<b>ROOF LINER PLAN A</b>	
				REV    DATE    BY    DESCRIPTION	BUILDER Lemartec Corporation CUSTOMER Duke Energy LOCATION Dunn, North Carolina PROJECT Duke Energy Dunn Operations Center - Operations BUILDERS FOR 23068 - Ops

Liner/Soffit Schedule

Id	Qty	Type	Length	Gage	OP	Finish	Color	Direction	Cut
#98	26	PR	19'-3"	26	1	K	OW	Left to Right	
#103	6	PR	5'-11 5/8"	26	1	K	OW	Left to Right	
#58	7	PR	19'-3"	26	1	K	OW	Left to Right	
#92	3	PR	4'-11 1/2"	26	1	K	OW	Left to Right	
#94	1	PR	7'-11 1/2"	26	1	K	OW	Left to Right	
#93	33	PR	10'-11 1/2"	26	1	K	OW	Left to Right	
#95	1	PR	10'-11 1/2"	26	1	K	OW	Left to Right	
#97	1	PR	7'-11 1/2"	26	1	K	OW	Left to Right	

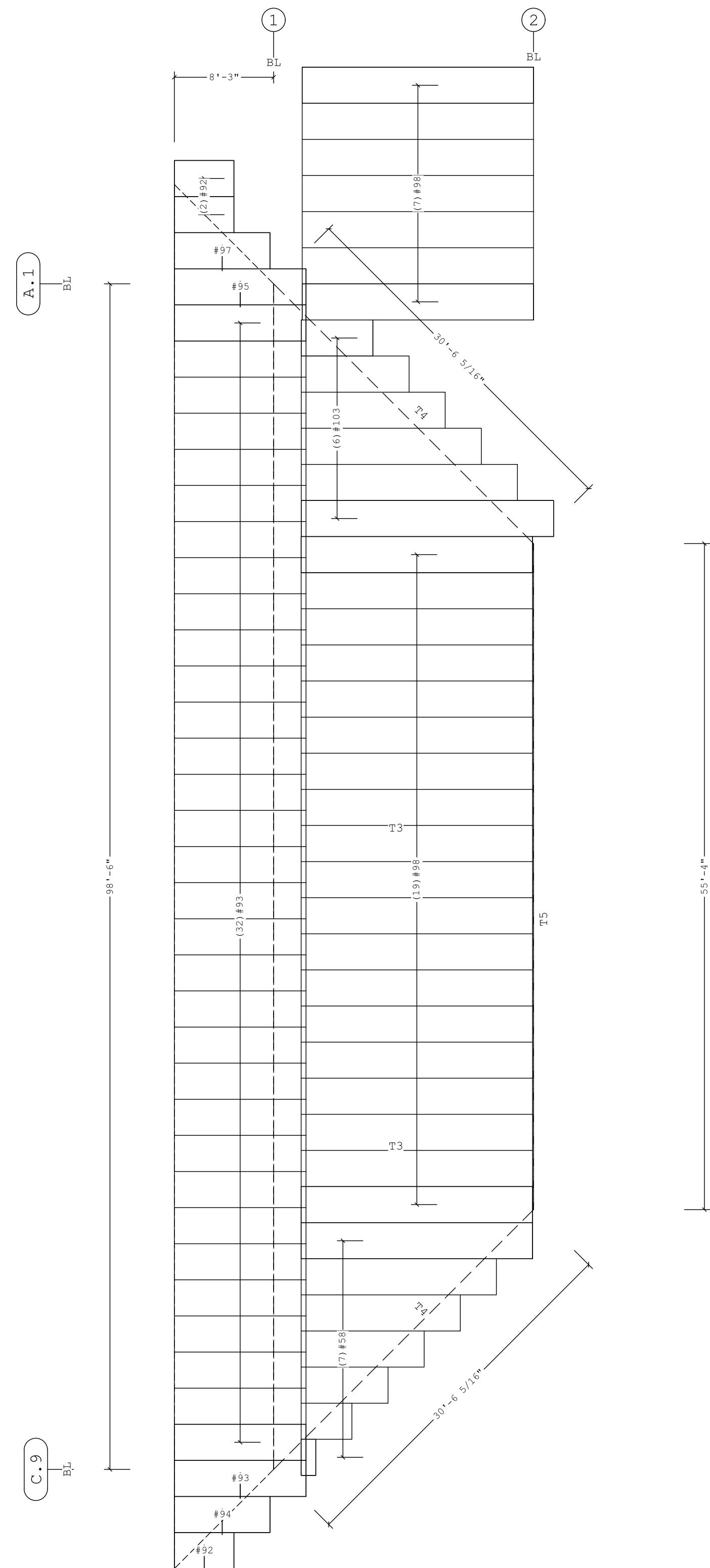
Oper. Code:1=SQ, SQ  
 Finish:K=KXL (Kynar)  
 Color:OW=Cool Cotton White

NOTE: FIELD CUT PANELS  
 AT HIP LOCATIONS AS  
 REQUIRED.

Liner Trim Schedule

Id	Parts
T3	(5) JT10
T4	(7) JT10
T5	(4) HT14

Color	Details
Cool Cotton White	WC61A9
Cool Cotton White	WC61A9
Cool Cotton White	WC51CA



ROOF LINER PLAN  
 (View from outside Building)

Fastener Schedule

PART	Description
0097584-102	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-102	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer

Fastener Schedule

Part	Description
0097581-102	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer
0097584-102	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer

Shape Name = CANOPY 2, Shape = CANOPY 2



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05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING  
 FIRM F-0998

**FOR CONSTRUCTION**

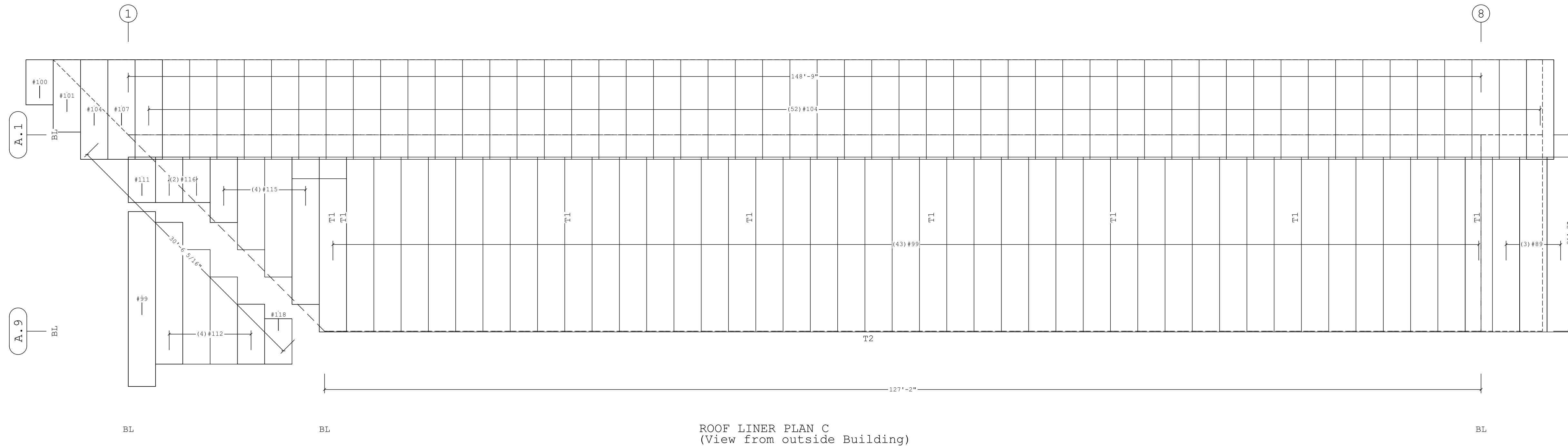
MODIFIED IN AUTOCAD	1. PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS		THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.		THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. 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 VP BUILDINGS.		<b>D</b> VP Buildings 3200 Players Club Circle Memphis TN 38125		<b>ROOF LINER PLAN B</b>	
	2. STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.		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 VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.		REV		BUILDER Lemartec Corporation		JOBNO 23-016001-02	
	3. DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE FIELD CUTTING. SEE THE COVERING SCHEDULE FOR CUT LENGTHS.				DATE		CUSTOMER Duke Energy		DATE 5/1/2024	
	4. SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.				BY		LOCATION Dunn, North Carolina		DRAWN CHECK LKH SM/CS	
					DESCRIPTION		PROJECT Duke Energy Dunn Operations Center - Operations		PAGE 40B	



Liner/Soffit Schedule									
Id	Qty	Type	Length	Gage	OP	Finish	Color	Direction	Cut
#111	1	PR	5'-0"	26	1	K	OW	Left to Right	
#99	44	PR	19'-3"	26	1	K	OW	Left to Right	
#112	4	PR	15'-7 3/8"	26	1	K	OW	Left to Right	
#116	2	PR	5'-0"	26	1	K	OW	Left to Right	
#115	4	PR	7'-2 1/4"	26	1	K	OW	Left to Right	
#118	1	PR	5'-0"	26	1	K	OW	Left to Right	
#89	3	PR	19'-3"	26	1	K	OW	Left to Right	
#100	1	PR	4'-11 1/2"	26	1	K	OW	Left to Right	
#101	1	PR	7'-11 1/2"	26	1	K	OW	Left to Right	
#104	53	PR	10'-11 1/2"	26	1	K	OW	Left to Right	
#107	1	PR	10'-11 1/2"	26	1	K	OW	Left to Right	

Oper. Code:l=SQ, SQ  
Finish:K=KXL (Kynar)  
Color:OW=Cool Cotton White

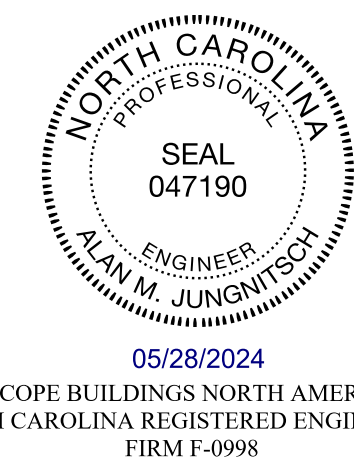
Liner Trim Schedule			
Id	Parts	Color	Details
T1	(5)JT10	Cool Cotton White	WC61A9
T2	(9)HT14, HT05, HT10	Cool Cotton White	WC51CA



ROOF LINER PLAN C  
(View from outside Building)



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BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**FOR CONSTRUCTION**

Shape Name = CANOPY 3, Shape = CANOPY 3

MODIFIED IN AUTOCAD	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	THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.	THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. 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 VP BUILDINGS.	<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="4" style="text-align: center;">NTS</td> </tr> </table>	REV	DATE	BY	DESCRIPTION					NTS				<table border="1"> <tr> <td colspan="2" style="text-align: center;"><b>VP Buildings</b></td> <td rowspan="5" style="text-align: center;"><b>ROOF LINER PLAN C</b></td> </tr> <tr> <td colspan="2">3200 Players Club Circle Memphis TN 38125</td> </tr> <tr> <td>BUILDER</td> <td>Lemartec Corporation</td> </tr> <tr> <td>CUSTOMER</td> <td>Duke Energy</td> </tr> <tr> <td>LOCATION</td> <td>Dunn, North Carolina</td> </tr> <tr> <td>PROJECT</td> <td>Duke Energy Dunn Operations Center - Operations</td> </tr> <tr> <td>BUILDERS PO#</td> <td>23068 - Ops</td> </tr> </table>	<b>VP Buildings</b>		<b>ROOF LINER PLAN C</b>	3200 Players Club Circle Memphis TN 38125		BUILDER	Lemartec Corporation	CUSTOMER	Duke Energy	LOCATION	Dunn, North Carolina	PROJECT	Duke Energy Dunn Operations Center - Operations	BUILDERS PO#	23068 - Ops
	REV	DATE	BY		DESCRIPTION																											
	NTS																															
	<b>VP Buildings</b>		<b>ROOF LINER PLAN C</b>																													
3200 Players Club Circle Memphis TN 38125																																
BUILDER	Lemartec Corporation																															
CUSTOMER	Duke Energy																															
LOCATION	Dunn, North Carolina																															
PROJECT	Duke Energy Dunn Operations Center - Operations																															
BUILDERS PO#	23068 - Ops																															
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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.																																

Covering Schedule

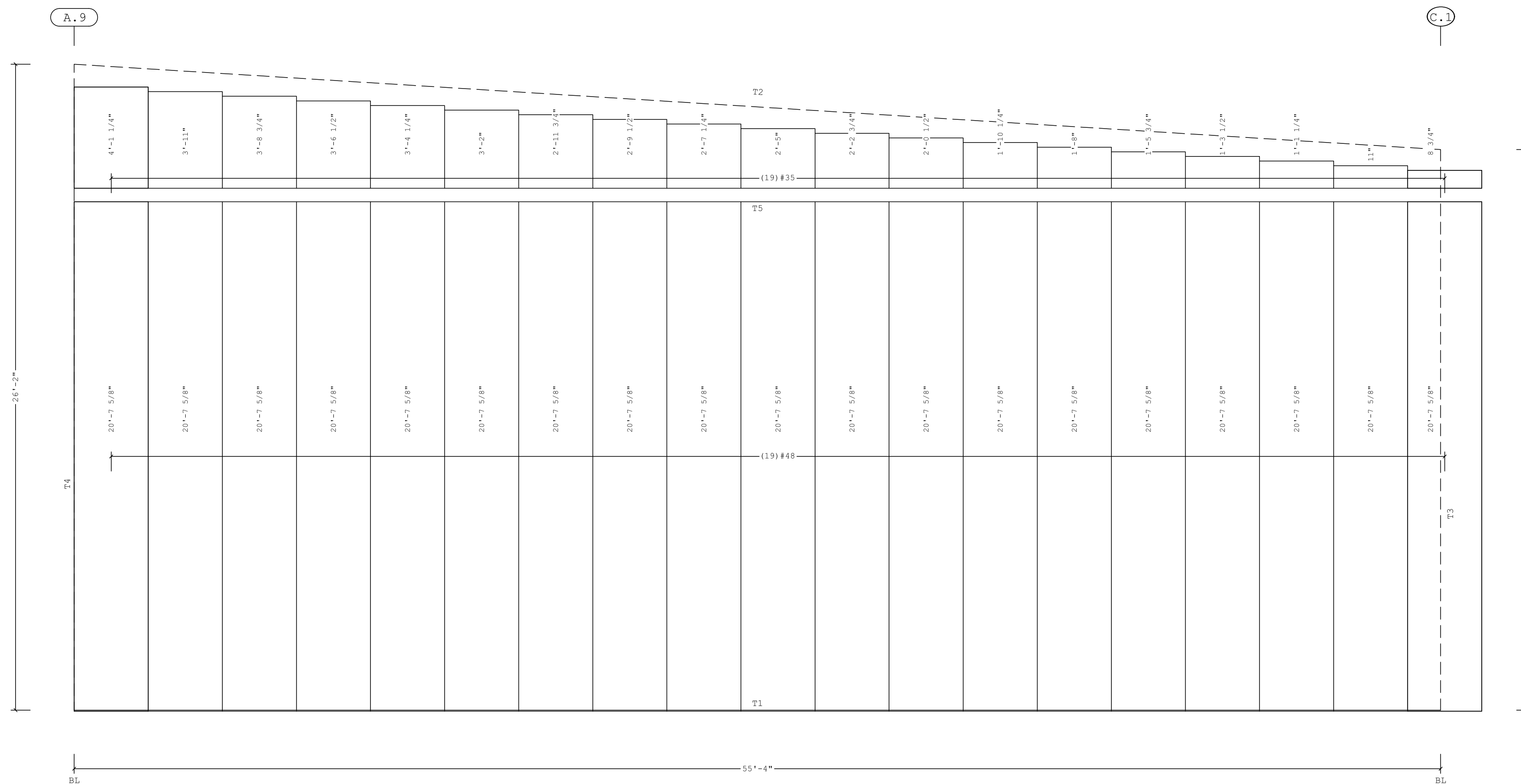
Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#35	19	W	4'-1 1/4"	26	1	K	OW	-2 1/4"	Left to Right
#48	19	W	20'-7 5/8"	26	1	K	OW		Left to Right

Oper. Code:1=SQ, SQ  
 Finish:K=KXL (Kynar)  
 Color:OW=Cool Cotton White

Trim Schedule

Id	Parts
T1	(3.7)BG3415, (6)BT10
T2	(3)GAC1024, (6)NLTB10, 1CS2062R, (3)CSA2070R, (18)CSA2102R, CSA1014R, 1CS1002R
T3	(2)CT12
T4	CT16, CT12
T5	(3)BWA0207, (3)BWC20, (6)BWT110, (6)LTA10, (6)SWRTA1

Color	Details
Cool Cotton White	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
Cool Cotton White	RC80E2, RC80E3, RC80G1, RC80G4, WC12A1
Cool Cotton White	WC20A1
Cool Cotton White	WC20A1
Standard Color	RCV104, RCV105, RCV420, RCV421, RCV422, RCV450, RCV457, RCV531, WC14A1, WC50A1



Need canopy beam penetration panels and parts. WC82A1  
**Panel W01080261KOW**

COVERING ELEVATION AT 2

Fastener Schedule

Part	Description
0097584-102	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-102	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer



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05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**FOR CONSTRUCTION**

Shape Name = GARAGE BAYS, Wall = 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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VP Buildings				COVERING ELEVATION AT 2	
3200 Players Club Circle Memphis TN 38125					
REV	DATE	BY	DESCRIPTION	BUILDER	LEMA
				Lemartec Corporation	
				Duke Energy	
				Dunn, North Carolina	
				Duke Energy Dunn Operations Center - Operations	
				23068 - Ops	
NTS					

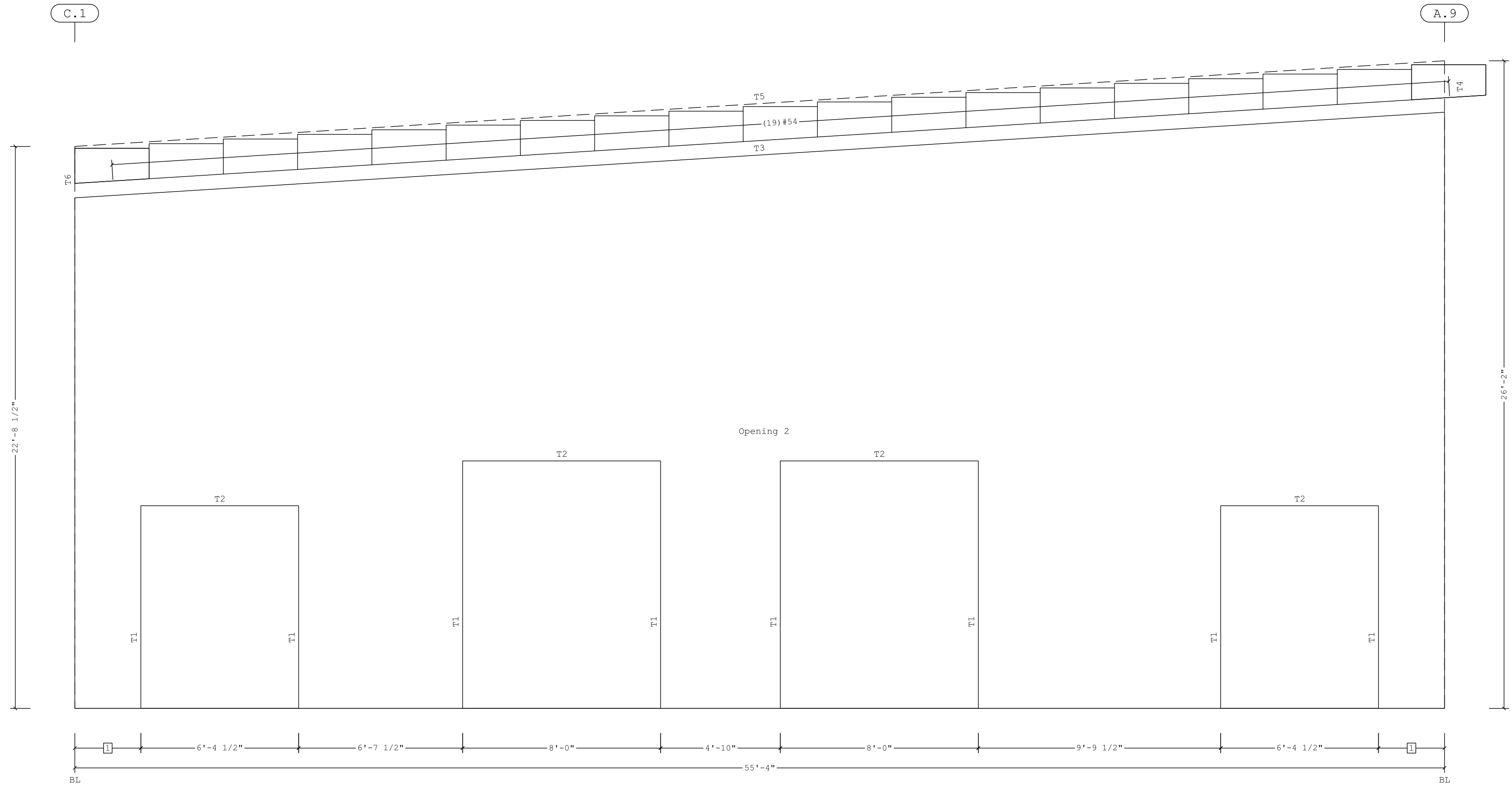
JOBNO	23-016001-02
DATE	5/1/2024
DRAWN/CHECK	LKH SM/CS
PAGE	41

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#54	19	W	1'-5"	26	M	K	GZ	4 1/2"	Left to Right

Oper. Code:M=LF, SQ  
Finish:K=KXL (Kynar)  
Color:GZ=Cool Zinc Gray

Trim Schedule	Id	Parts	Color	Details
T1	DPP10, JT10	Cool Cotton White	WC24A1	
T2	DPP10, HTS10	Cool Cotton White	WC24A2	
T3	(3)BWA0207, (6)BWT110, (5.5)RFR10-33, (6)RHC010, (3)RHM200007, (6)RHS10	Standard Color	RC15A2, RC52A1, RCV104, RCV106, WC52A1	
T4	CT05	Cool Cotton White	WC20A1	
T5	(3)GAC1024, (6)NLTB10, 1CS2062L, (3)CSA2070L, (18)CSA2102L, CSA1014L, 1CS1002L	Cool Zinc Gray	RC80E2, RC80E3, RC80G1, RC80G4, WC12A1	
T6	CT05	Cool Zinc Gray	WC20A1	

NOTE: FIELD CUT PANELS TO BE UNDER PURLINS AS REQUIRED.



1 2'-8" Dimension Key

Part	Description
0097584-116	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-116	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer



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BLUESCOPE BUILDINGS NORTH AMERICA, INC. NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

Shape Name = GARAGE BAYS, Wall = 3

FOR CONSTRUCTION

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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REV	DATE	BY	DESCRIPTION
D			VP Buildings 3200 Players Club Circle Memphis TN 38125
			NTS

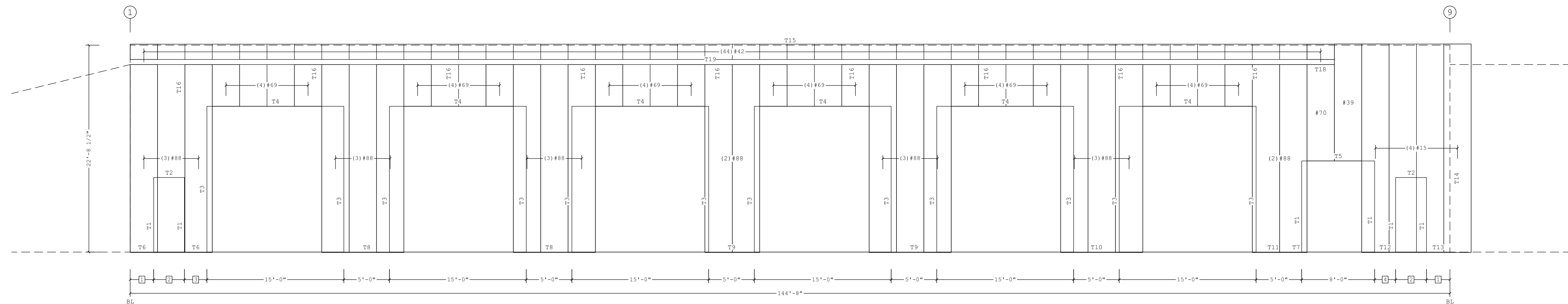
COVERING ELEVATION AT 9	
BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - Operations
BUILDERS FOR	23068 - Ops
JOBNO	23-016001-02
DATE	5/1/2024
DRAWN/CHECK	LKH SM/CS
PAGE	43

MODIFIED IN AUTOCAD

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Direction
#42	44	W	1'-8 1/4"	26	1	K	OW	Left to Right
#88	19	W	20'-7 1/2"	26	1	K	OW	Left to Right
#69	24	W	4'-7"	26	1	K	OW	Left to Right
#70	1	W	10'-7"	26	1	K	OW	Left to Right
#39	1	W	12'-10"	26	1	K	OW	Left to Right
#15	4	W	22'-10 1/2"	26	1	K	OW	Left to Right

Oper. Code:l=SQ, SQ  
Finish:K=KXL (Kynar)  
Color:OW=Cool Cotton White

Id	Parts	Color	Details
T1	DPP10, JT10	Cool Cotton White	WC24A1
T2	DPP05, HTS05	Cool Cotton White	WC24A2
T3	DPP12, DPP05, JT12, JT05	Cool Cotton White	WC24A1
T4	DPP10, DPP05, HTS12, HTS03	Cool Cotton White	WC24A2
T5	DPP10, HTS10	Cool Cotton White	WC24A2
T6	(0.2)BG3415, BT10	Cool Cotton White	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2, WSR065
T7	(0.1)BG3415, BT10	Cool Cotton White	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T8	(0.3)BG3415, BT10	Cool Cotton White	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2, WSR065
T9	(0.3)BG3415, BT10	Cool Cotton White	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2, WSR065
T10	(0.3)BG3415, BT10	Cool Cotton White	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T11	(0.3)BG3415, BT10	Cool Cotton White	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T12	(0.2)BG3415, BT10	Cool Cotton White	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T13	(0.2)BG3415, BT10	Cool Cotton White	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T14	ICF16, ICF05	Cool Zinc Gray	WC21A1
T15	(14)PCA10A, PCA05A	Cool Cotton White	WC11F1, WC11F4
T16	(2)5CE75, CP510, DN1, DST1	Cool Cotton White	RC38F1, RC38R1-MODEL
T18	(0.5)BWA0207, BWC20, BWT110, LTA10, SWRTA1	Standard Color	RCV104, RCV105, RCV420, RCV421, RCV422, RCV450, RCV457, RCV531, WC14A1, WC50A1
T19	(6.5)BWA0207, (7)BWC20, (13)BWT110, (13)LTA10, (13)SWRTA1	Standard Color	RCV104, RCV105, RCV420, RCV421, RCV422, RCV450, RCV457, RCV531, WC14A1, WC50A1



COVERING ELEVATION AT C.1

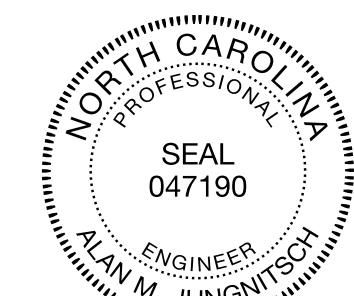
Need canopy beam penetration panels and parts. WC82A1  
**Panel W01080261KOW**

- 4 2'-3 5/8"
  - 3 2'-5 5/8"
  - 2 3'-4 1/2"
  - 1 2'-6 7/8"
- Dimension Key

Part	Description
0097584-102	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-102	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer



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05/28/2024  
BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
NORTH CAROLINA REGISTERED ENGINEERING  
FIRM F-0998

**FOR CONSTRUCTION**

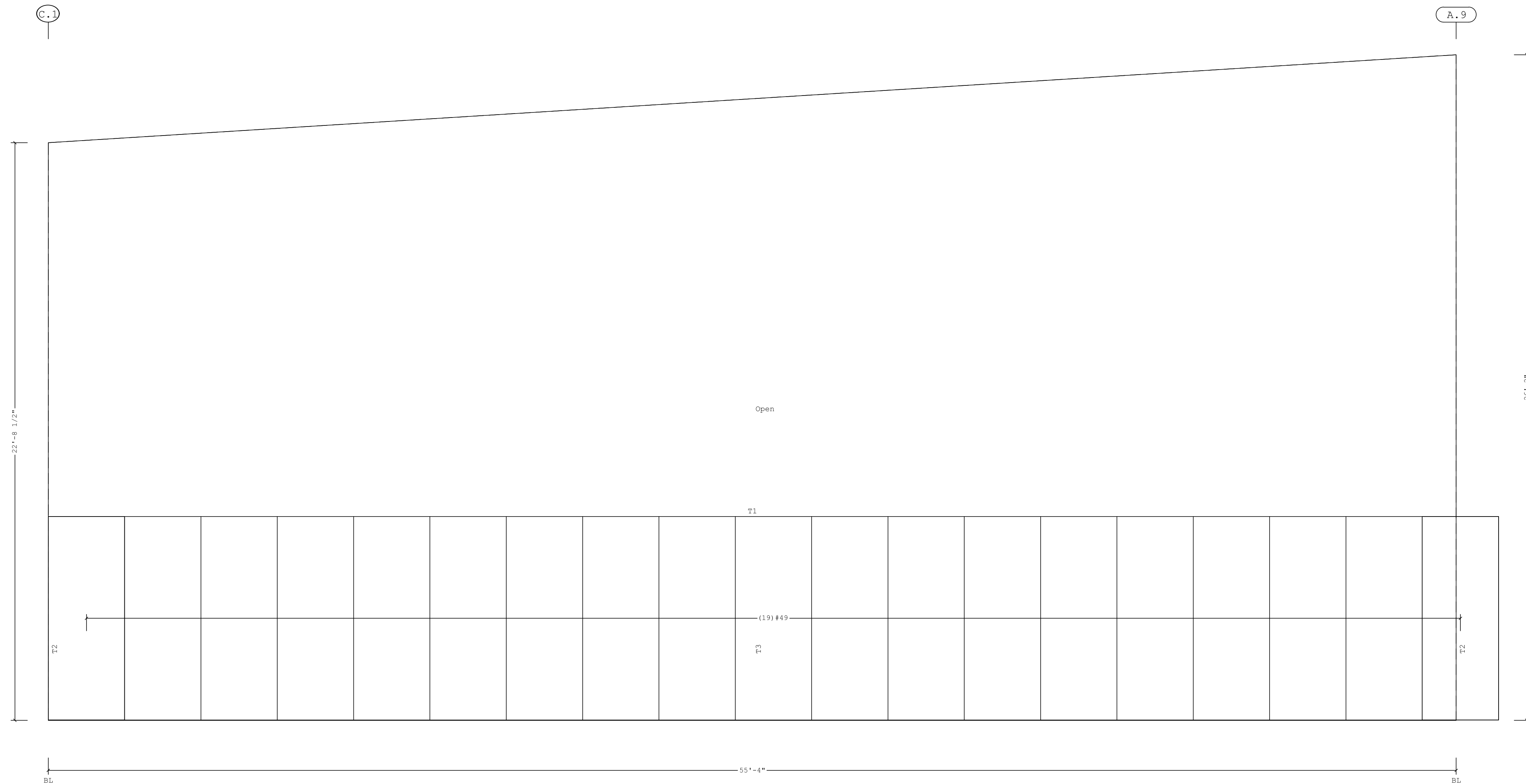
Shape Name = GARAGE BAYS, Wall = 4

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.	THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.	THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. 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 VP BUILDINGS.  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 VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.	<b>D</b> VP Buildings 3200 Players Club Circle Memphis TN 38125	<b>COVERING ELEVATION AT C.1</b>	BUILDER Lemartec Corporation		JOBNO 23-016001-02
					CUSTOMER Duke Energy		DATE 5/1/2024
			LOCATION Dunn, North Carolina			DRAWN/CHECK LKH SM/CS	
			PROJECT Duke Energy Dunn Operations Center - Operations			PAGE 44	
			BUILDERS FOR NTS			VPC VERSION: 24.1.1	

Wall Liner Schedule  
 Id Qty Type Length Gage OP Finish Color Direction  
 #49 19 DLN 8'-0" 26 1 K OW Left to Right  
 Oper. Code:1=SQ, SQ  
 Finish:K=KXL (Kynar)  
 Color:OW=Cool Cotton White

Trim Schedule  
 Id Parts  
 T1 (5) LPJT  
 T2 (2) LPJT  
 T3 (2) LPJT

Color Details  
 Cool Cotton White WCV062, WLV013  
 Cool Cotton White WLV015  
 Cool Cotton White WLV015



WALL LINER ELEVATION AT 2  
 (View from inside Building)

Fastener Schedule  
 Part Description  
 0097584-102 (T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer  
 0097581-102 (T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer

Shape Name = GARAGE BAYS, Wall = 1



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 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

**FOR CONSTRUCTION**

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

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REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS FOR	JOBNO	DATE	DRAWN/CHECK	SM/CS	PAGE
<b>D</b>				VP Buildings 3200 Players Club Circle Memphis TN 38125		<b>WALL LINER ELEVATION AT 2</b>							
				Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center - Operations	23068 - Ops	23-016001-02	5/1/2024	LKH	SM/CS	45
NTS													

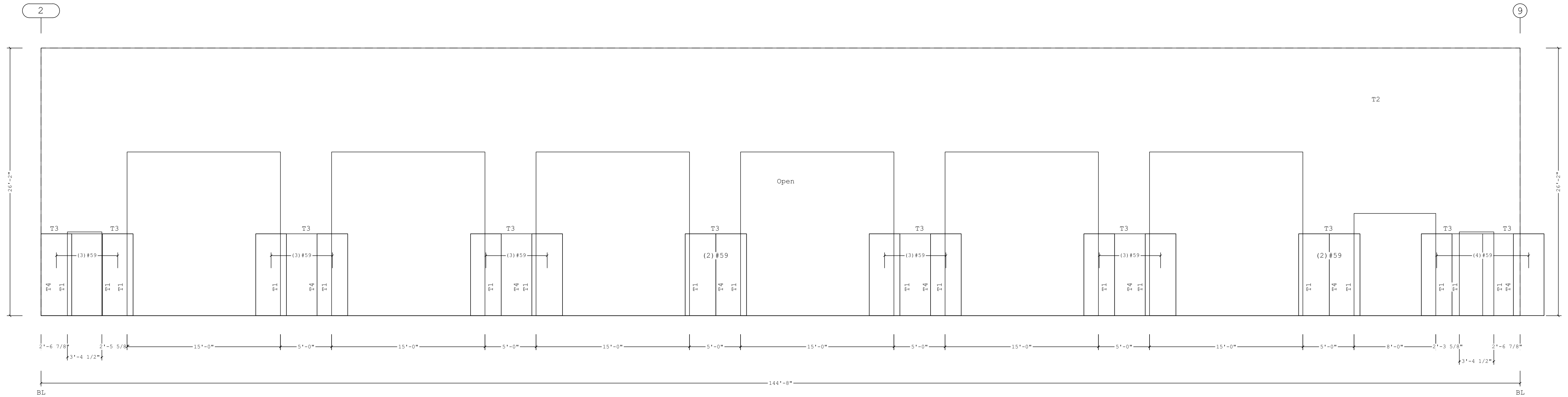


MODIFIED IN AUTOCAD

Wall Liner Schedule  
 Id Qty Type Length Gage OP Finish Color Direction  
 #59 23 DLN 8'-0" 26 1 K OW Left to Right  
 Oper. Code:1=SQ, SQ  
 Finish:K=KXL (Kynar)  
 Color:OW=Cool Cotton White

Trim Schedule  
 Id Parts  
 T1 (0.7) LPJT  
 T2 HT07  
 T3 LPJT  
 T4 (2) LPJT

Color Details  
 Cool Cotton White WCV062, WLV007  
 Cool Cotton White WC51CA  
 Cool Cotton White WCV062, WLV013  
 Cool Cotton White WLV015



WALL LINER ELEVATION AT A.9  
 (View from inside Building)

Fastener Schedule  
 Part Description  
 0097584-102 (T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer  
 0097581-102 (T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer

Shape Name = GARAGE BAYS, Wall = 2



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 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

FOR CONSTRUCTION

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REV	DATE	BY	DESCRIPTION
D			VP Buildings 3200 Players Club Circle Memphis TN 38125
			NTS

BUILDER	Lemartec Corporation	JOBNO	23-016001-02
CUSTOMER	Duke Energy	DATE	5/1/2024
LOCATION	Dunn, North Carolina	DRAWN/CHECK	LKH SM/CS
PROJECT	Duke Energy Dunn Operations Center - Operations	PAGE	46
BUILDERS PO#	23068 - Ops		



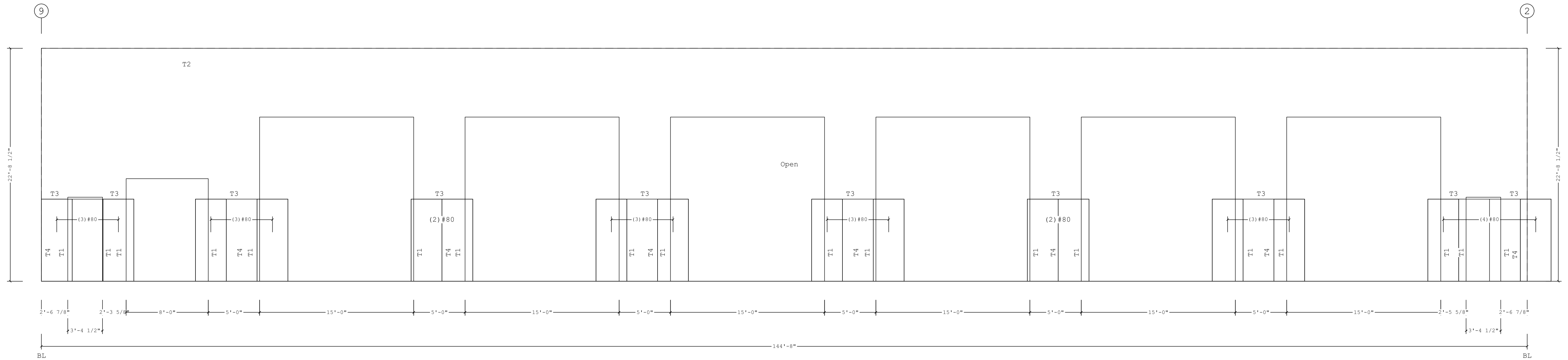
MODIFIED IN AUTOCAD

Wall Liner Schedule								
Id	Qty	Type	Length	Gage	OP	Finish	Color	Direction
#80	23	DLN	8'-0"	26	1	K	OW	Left to Right

Oper. Code:1=SQ, SQ  
Finish:K=KXL (Kynar)  
Color:OW=Cool Cotton White

Trim Schedule	
Id	Parts
T1	(0.7) LPJT
T2	HT07
T3	LPJT
T4	(2) LPJT

Color	Details
Cool Cotton White	WCV062, WLV007
Cool Cotton White	WC51CA
Cool Cotton White	WCV062, WLV013
Cool Cotton White	WLV015



WALL LINER ELEVATION AT C.1  
(View from inside Building)

Fastener Schedule	
Part	Description
0097581-102	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer
0097584-102	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer



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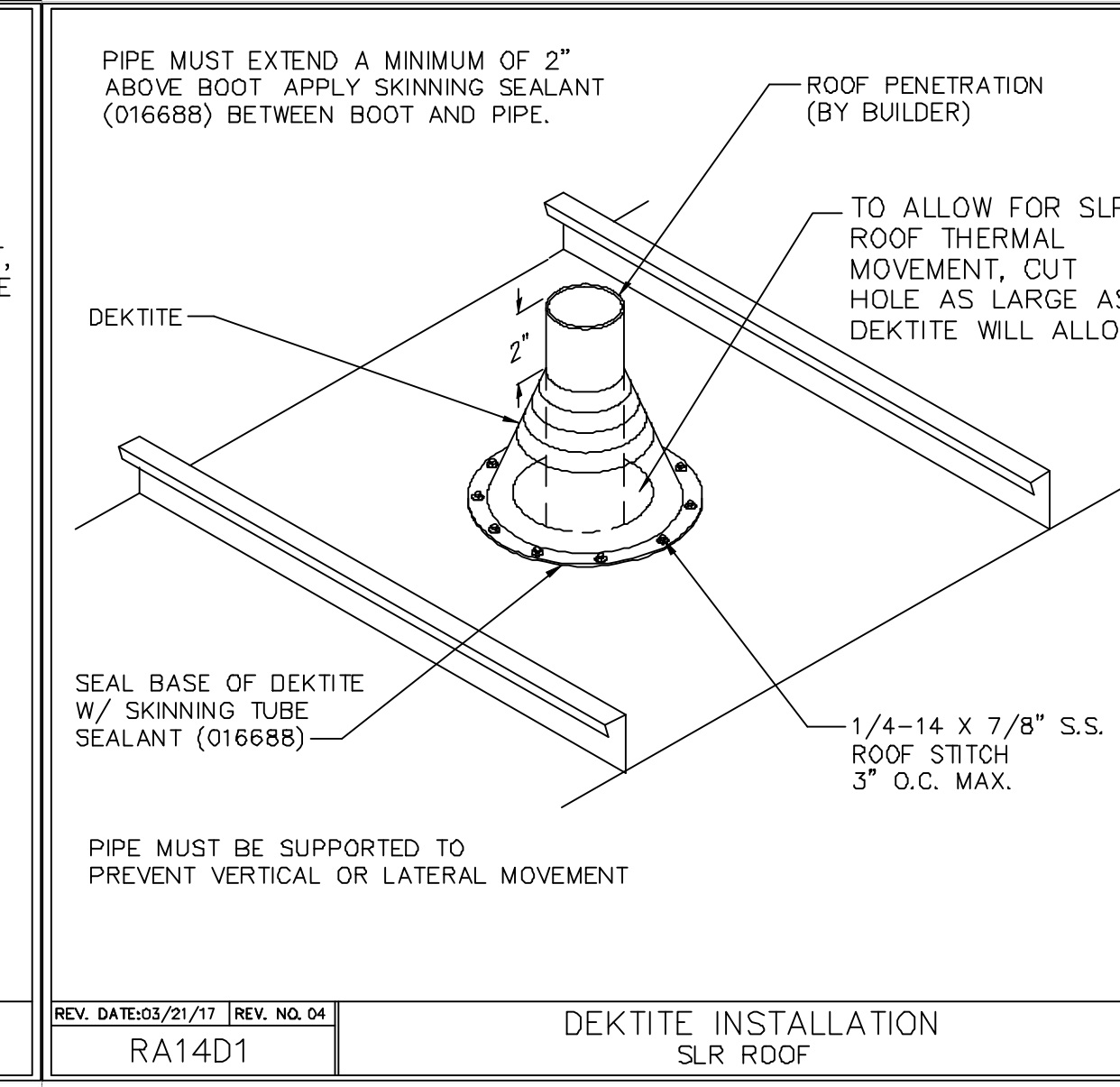
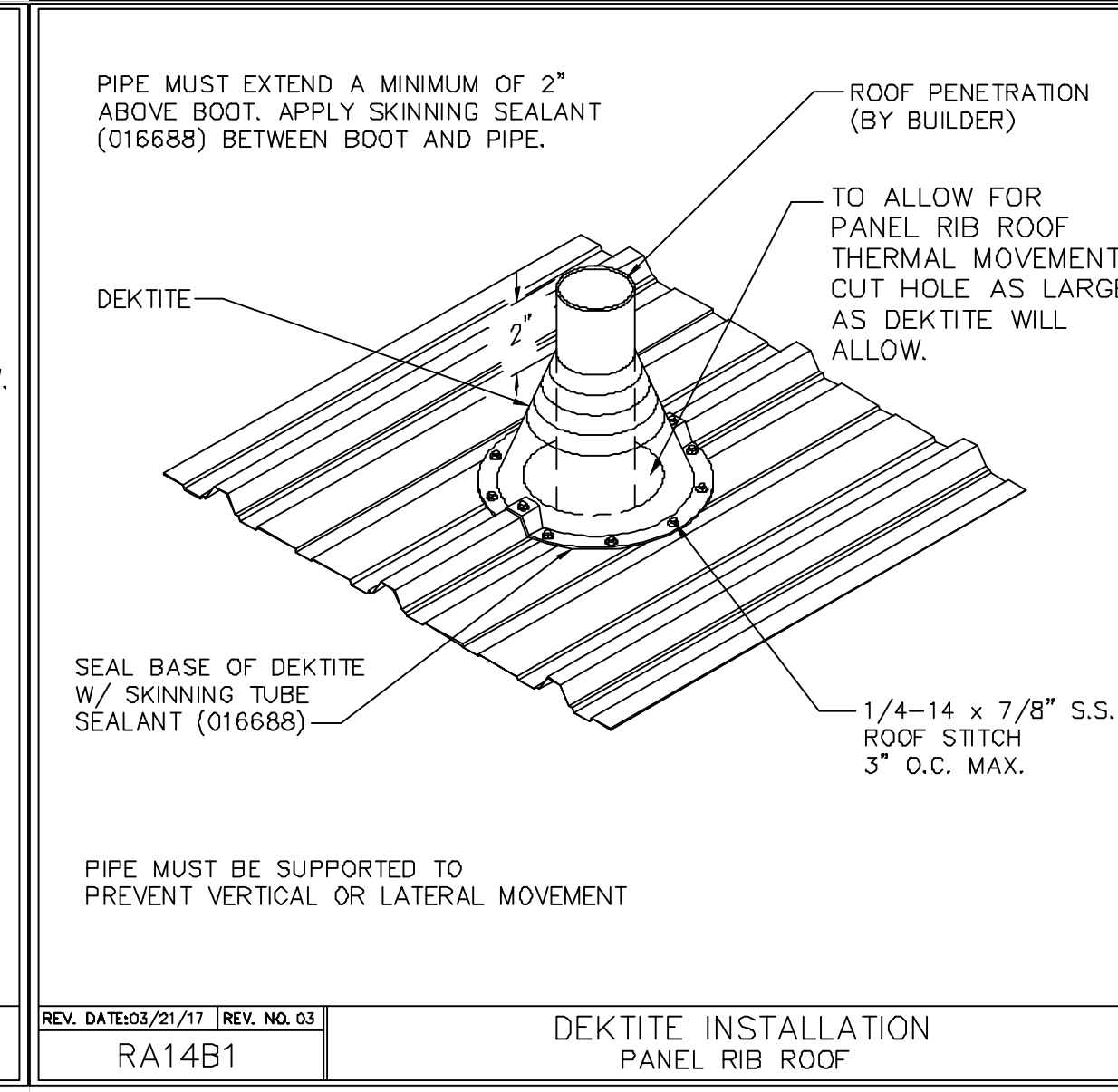
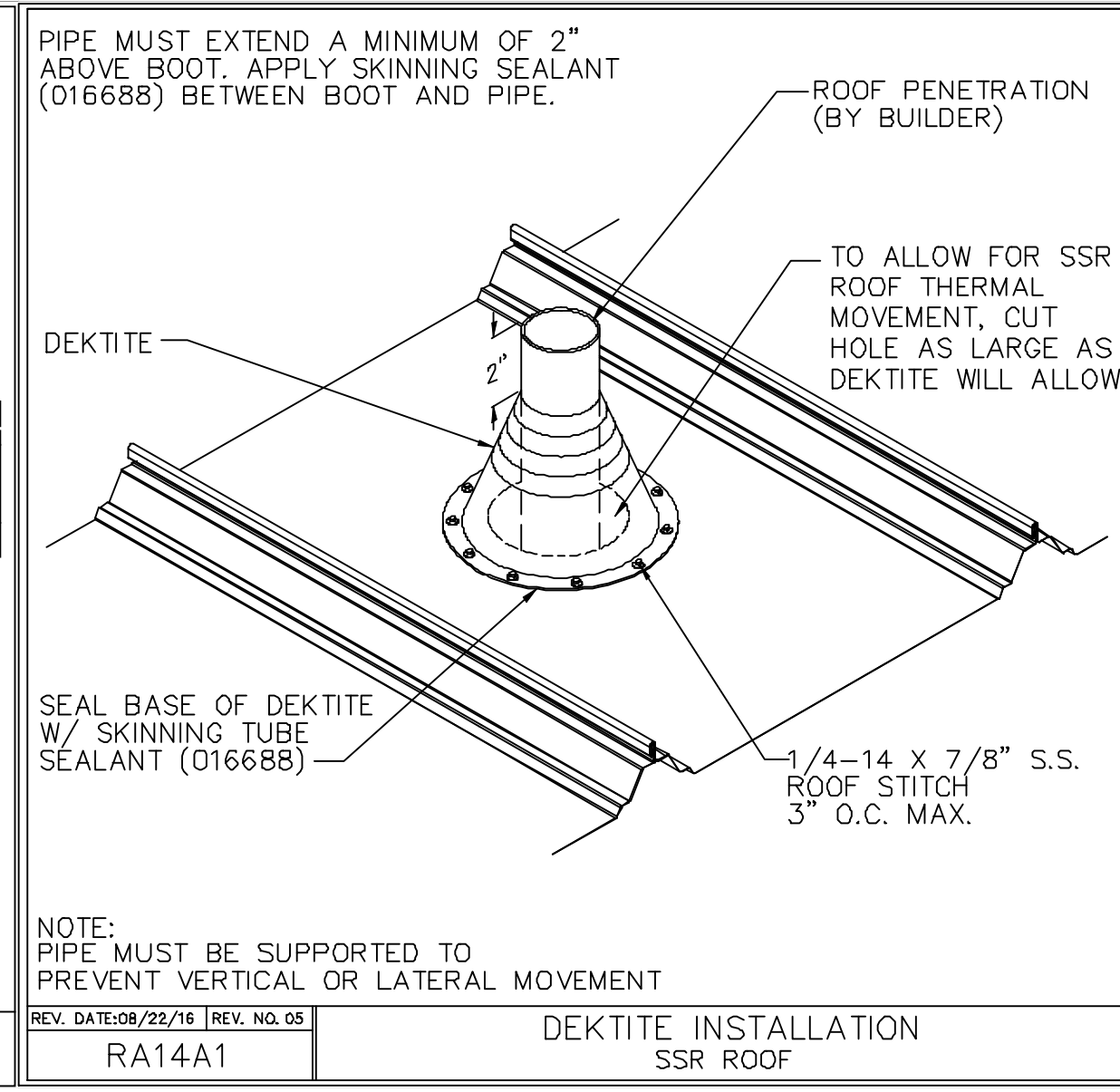
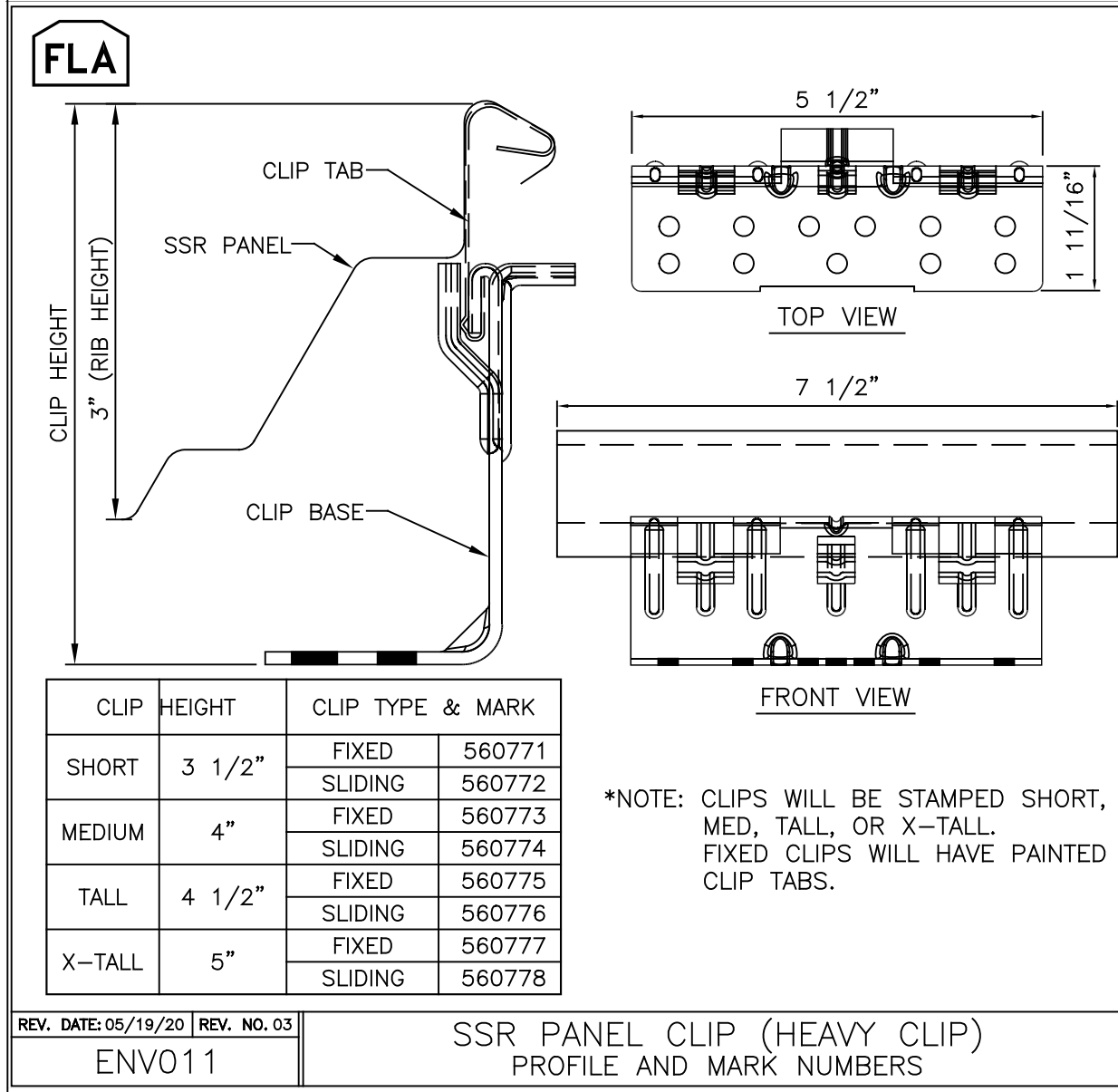
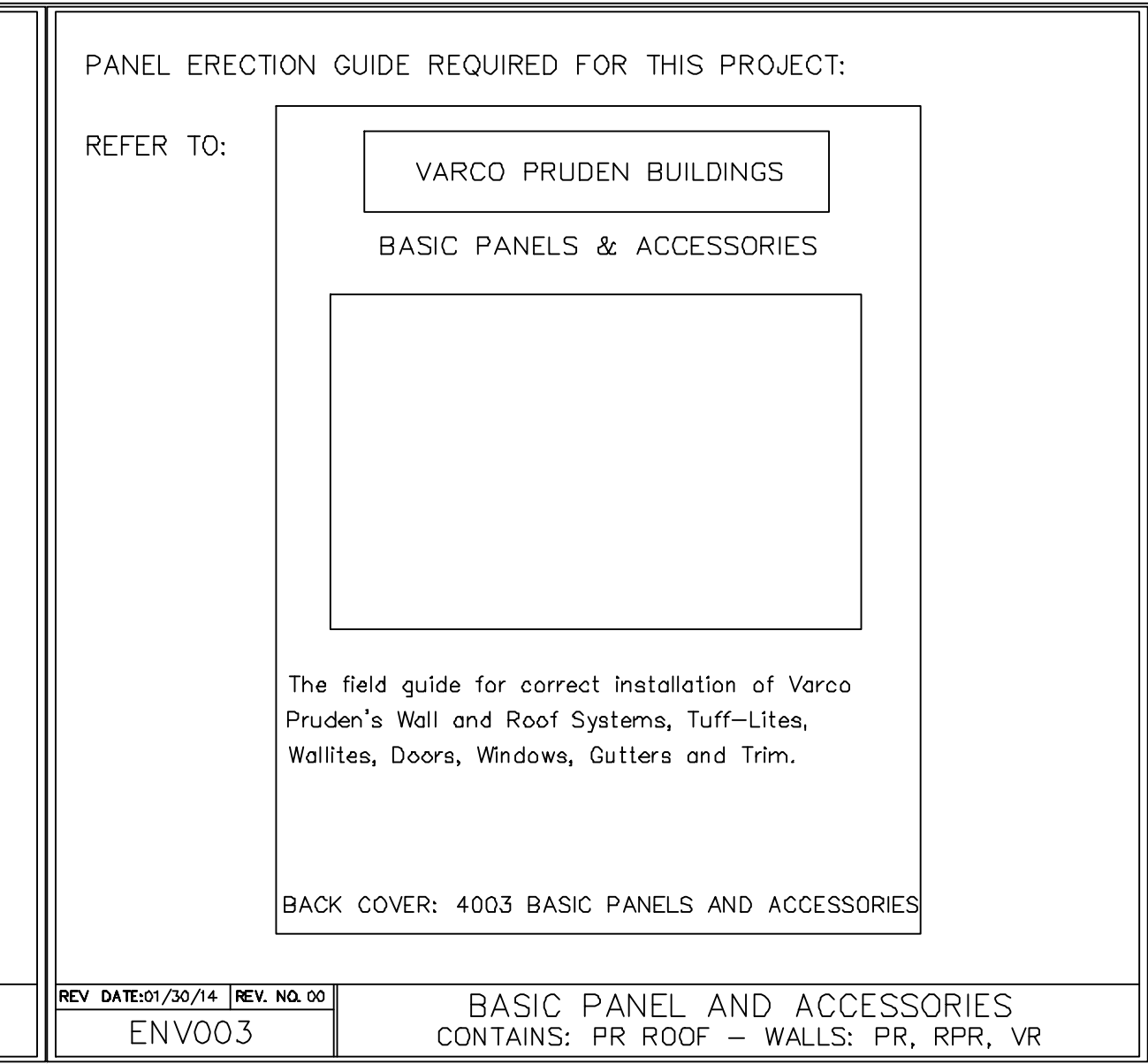
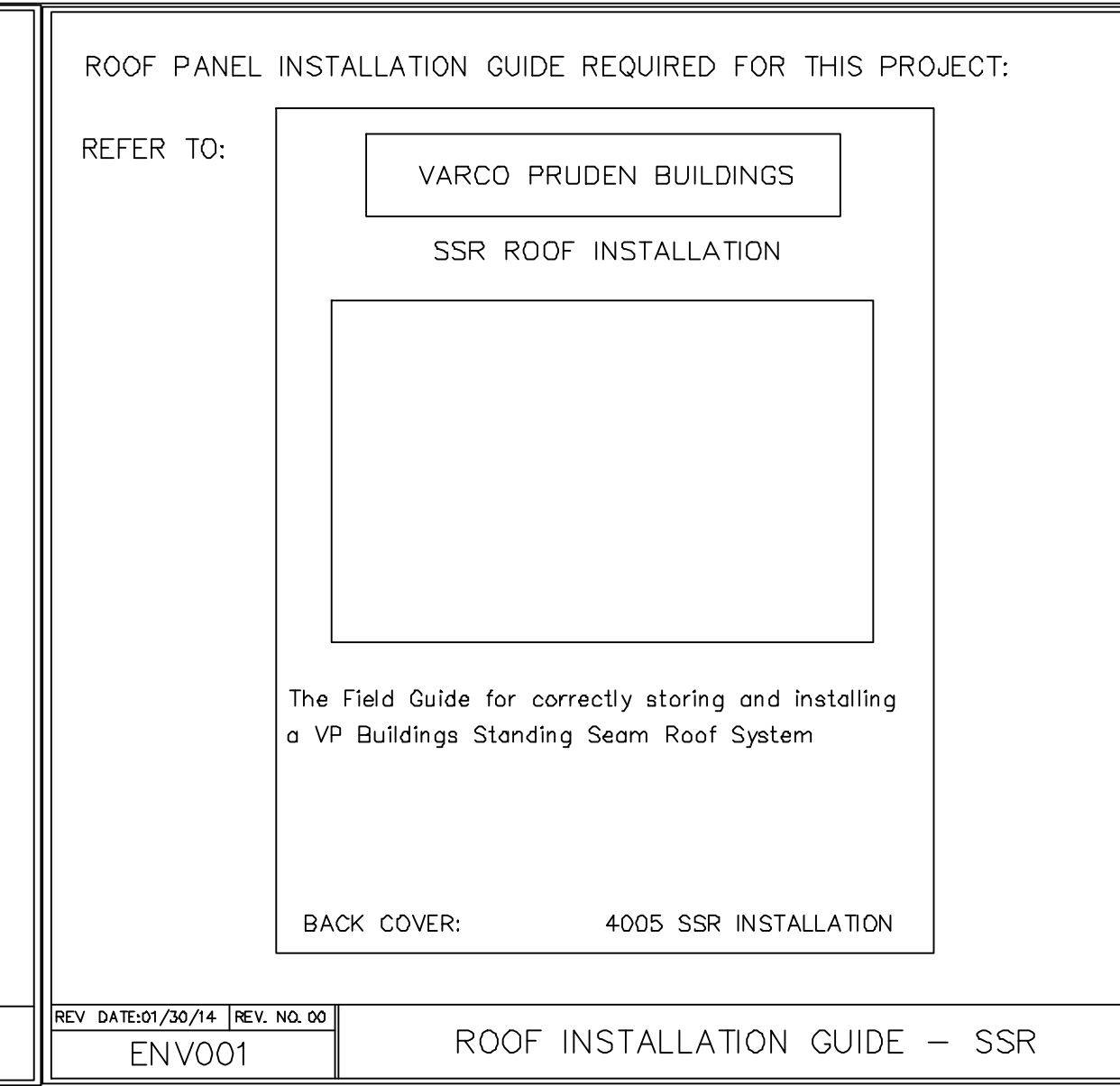
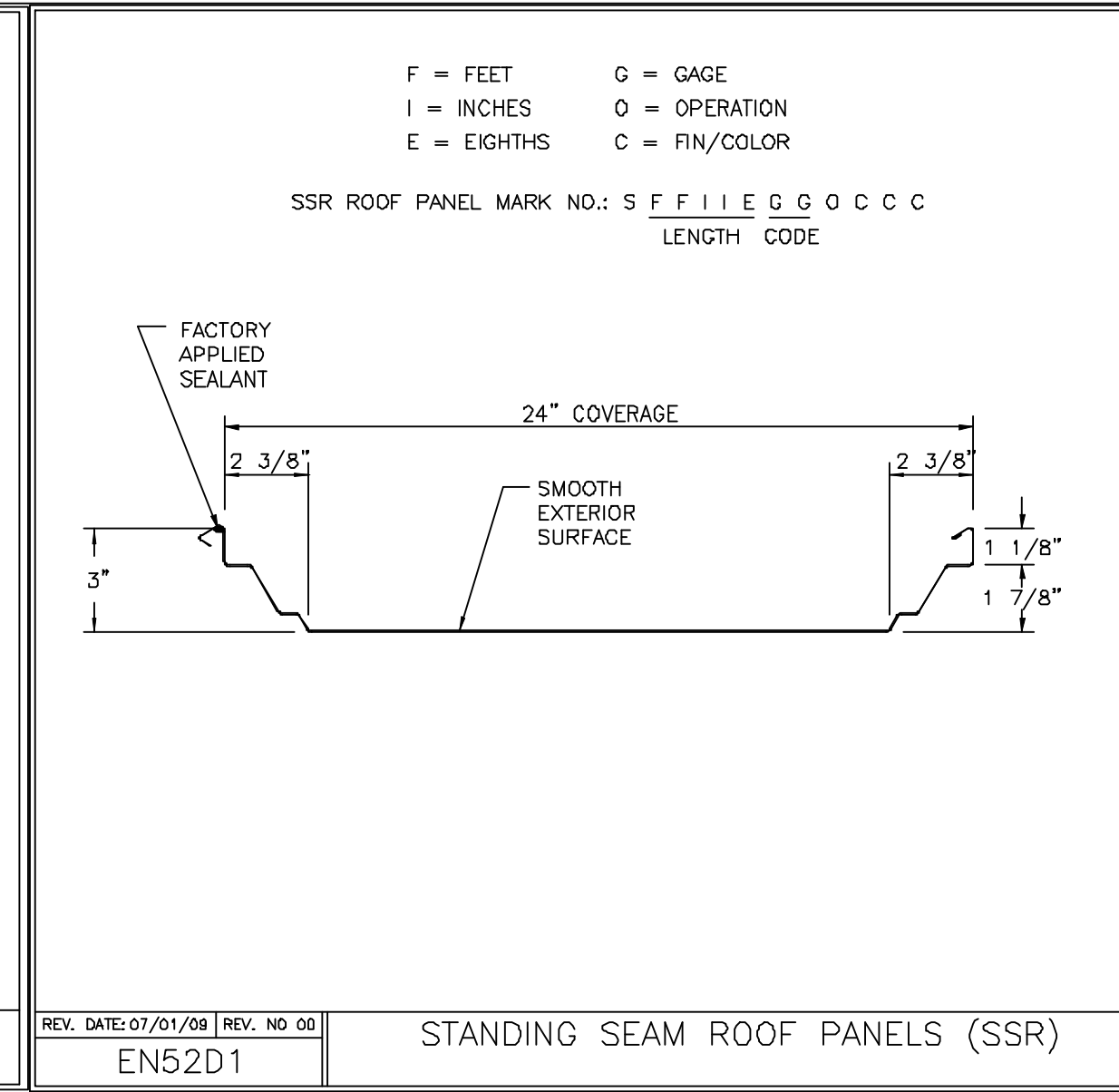
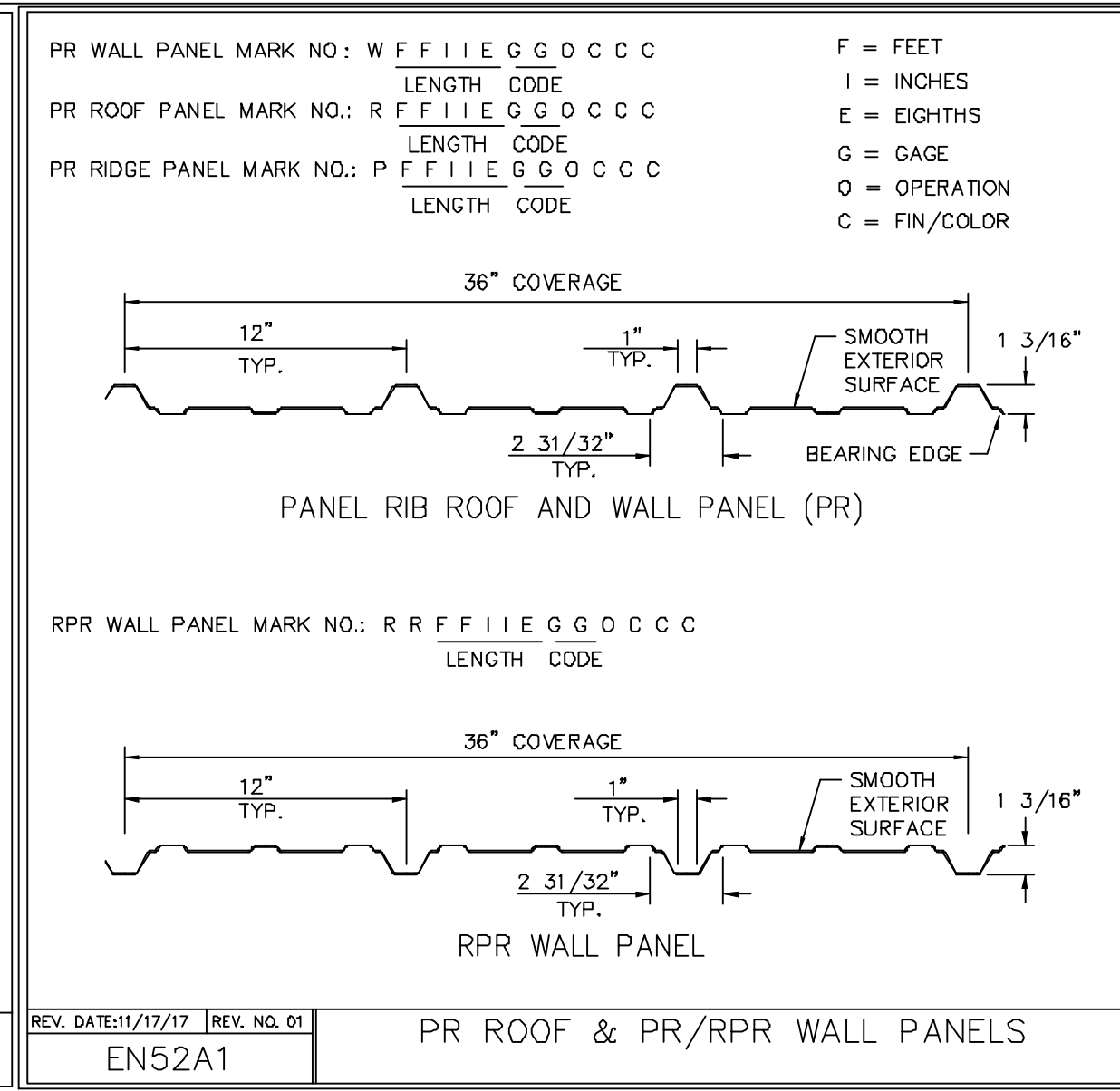
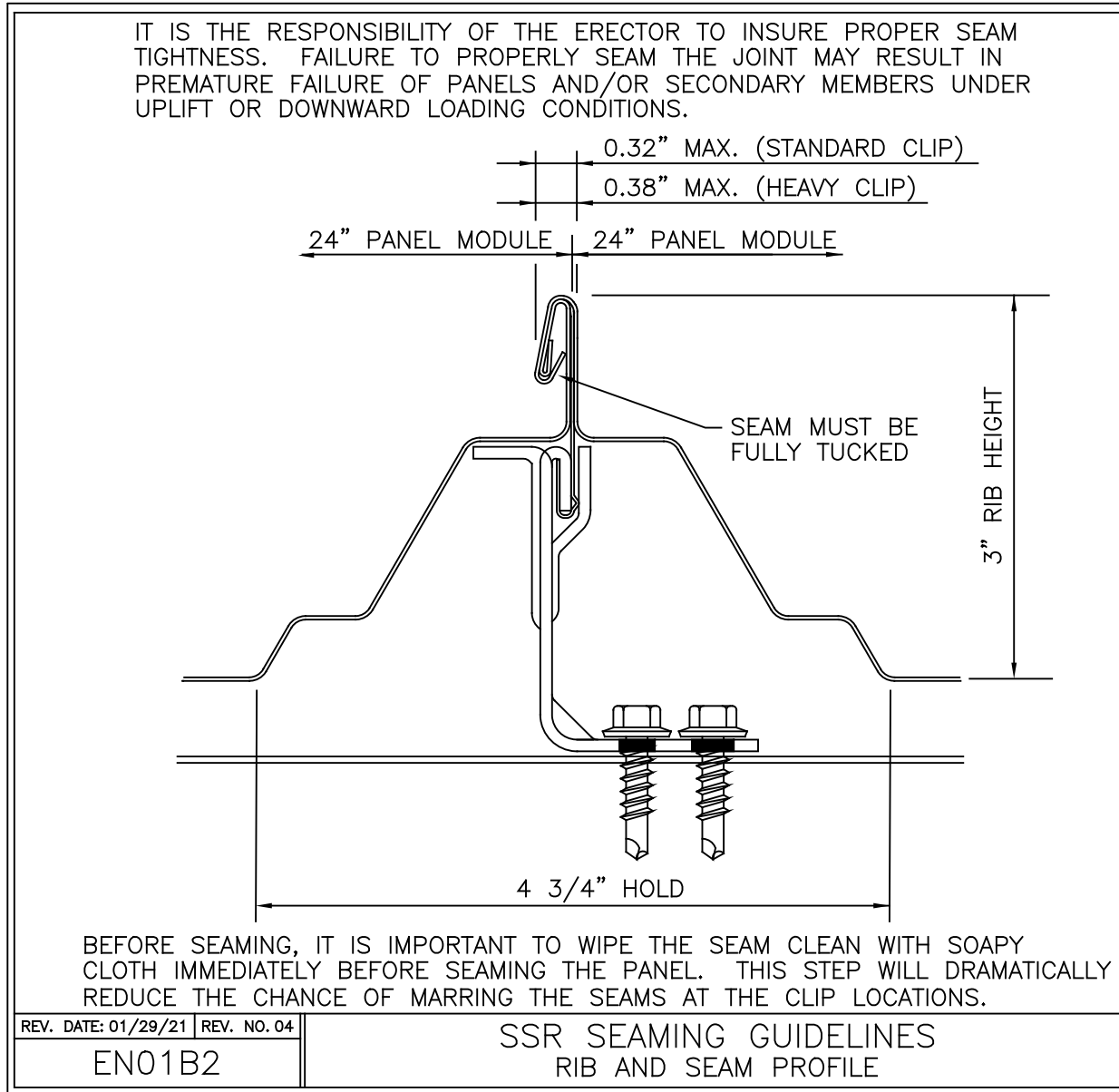


05/28/2024  
BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

Shape Name = GARAGE BAYS, Wall = 4

FOR CONSTRUCTION

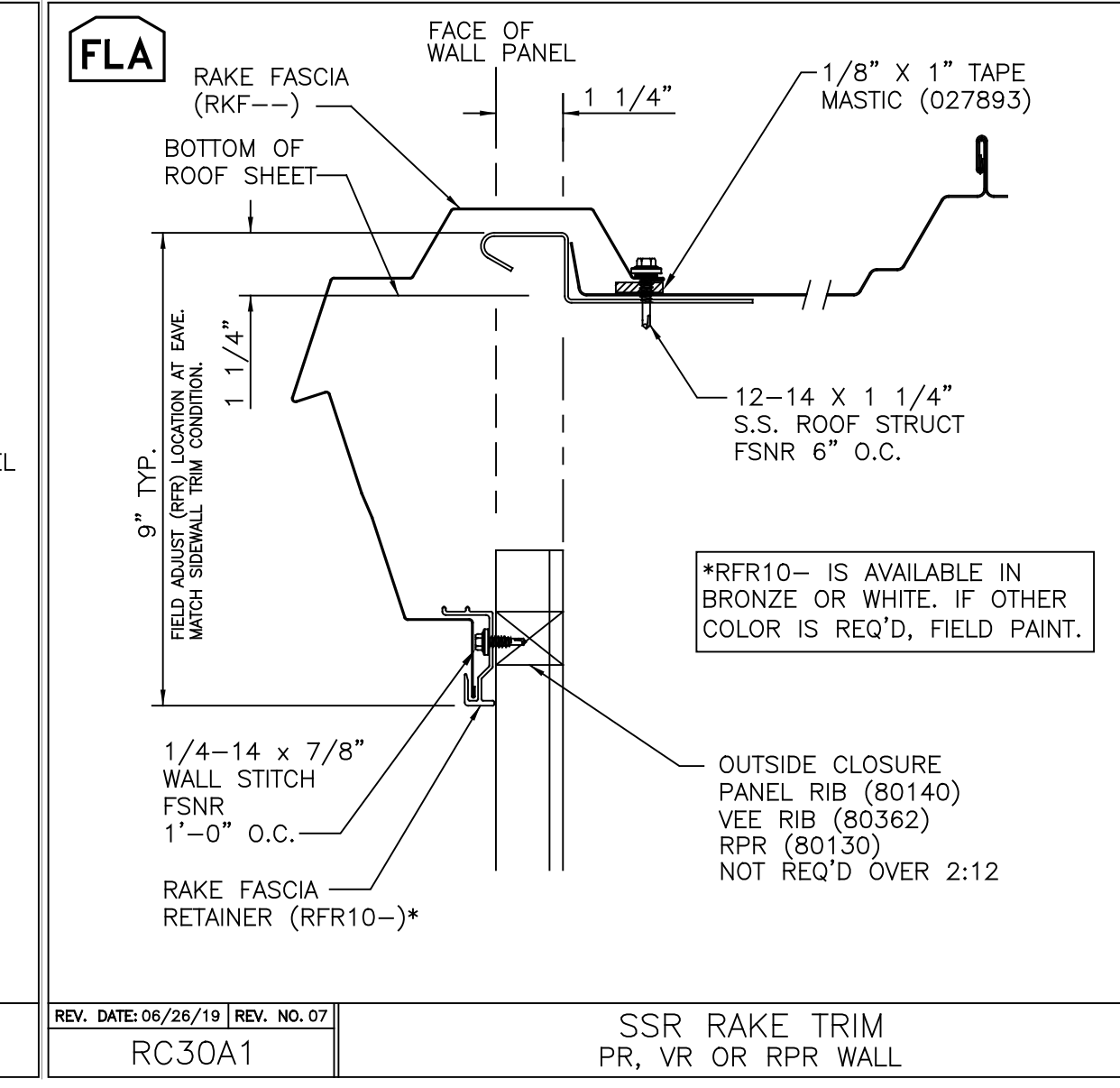
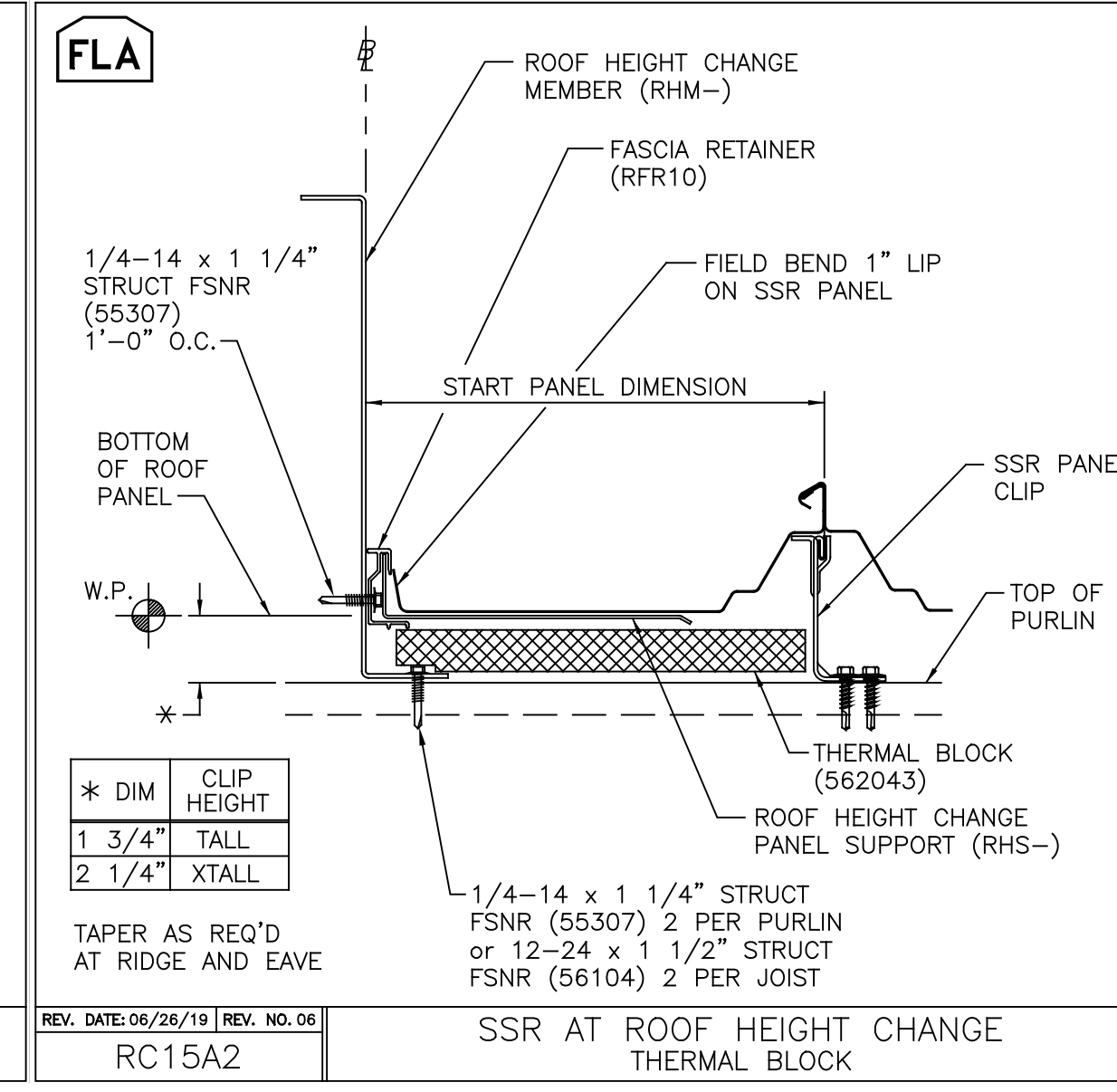
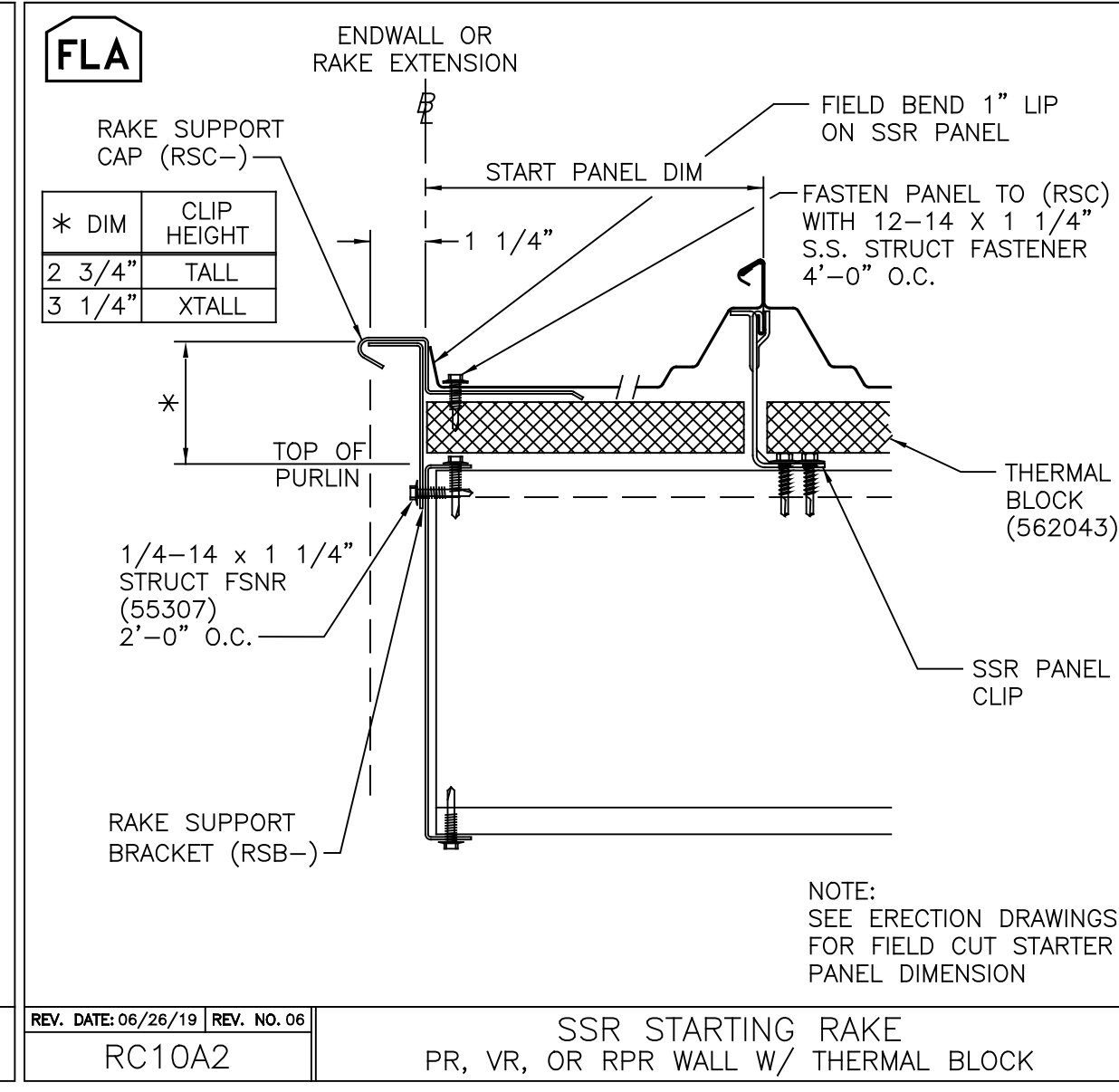
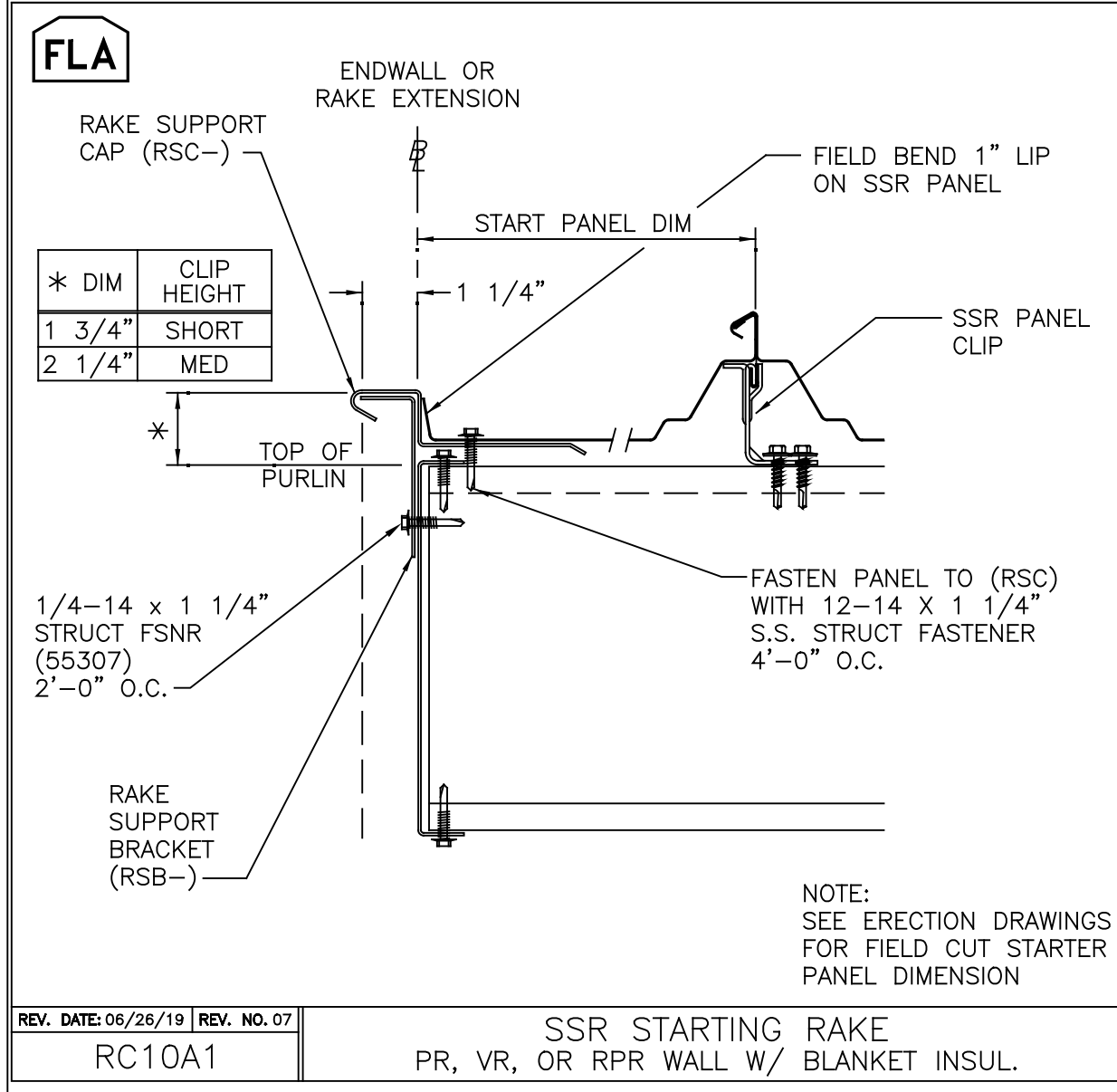
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				REV    DATE    BY    DESCRIPTION	BUILDER Lemartec Corporation CUSTOMER Duke Energy LOCATION Dunn, North Carolina PROJECT Duke Energy Dunn Operations Center - Operations BUILDERS FOR 23068 - Ops



NOTES

- STANDARD ERECTION DETAILS (SED) SUPERSEDE SIMILAR DETAILS FOUND IN THE ERECTION GUIDES. REFER TO THE ERECTION GUIDES FOR OTHER DETAILS, INSTALLATION PROCEDURES AND ACCESSORIES NOT DESCRIBED IN THE SED'S.
- ALL PANEL AND TRIM SURFACES MUST BE FREE OF DIRT AND OIL AT MASTIC AND SEALANT LOCATIONS.

REV. DATE: 07/01/09 REV. NO. 00  
RC00A1



**MMSA**  
STRUCTURAL ENGINEERS  
RECEIVED: 08/01/2024

SEAL  
047190

05/28/2024  
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NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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REV	DATE	BY	DESCRIPTION

NTS

VP Buildings			
3200 Players Club Circle Memphis TN 38125			
BUILDER	Lemartec Corporation		
CUSTOMER	Duke Energy		
LOCATION	Dunn, North Carolina		
PROJECT	Duke Energy Dunn Operations Center - Operations		
BUILDERS PO#	23068 - Ops		
VP VERSION:	24.1.1		
FILENAME:	hip Duke Energy - Ops		

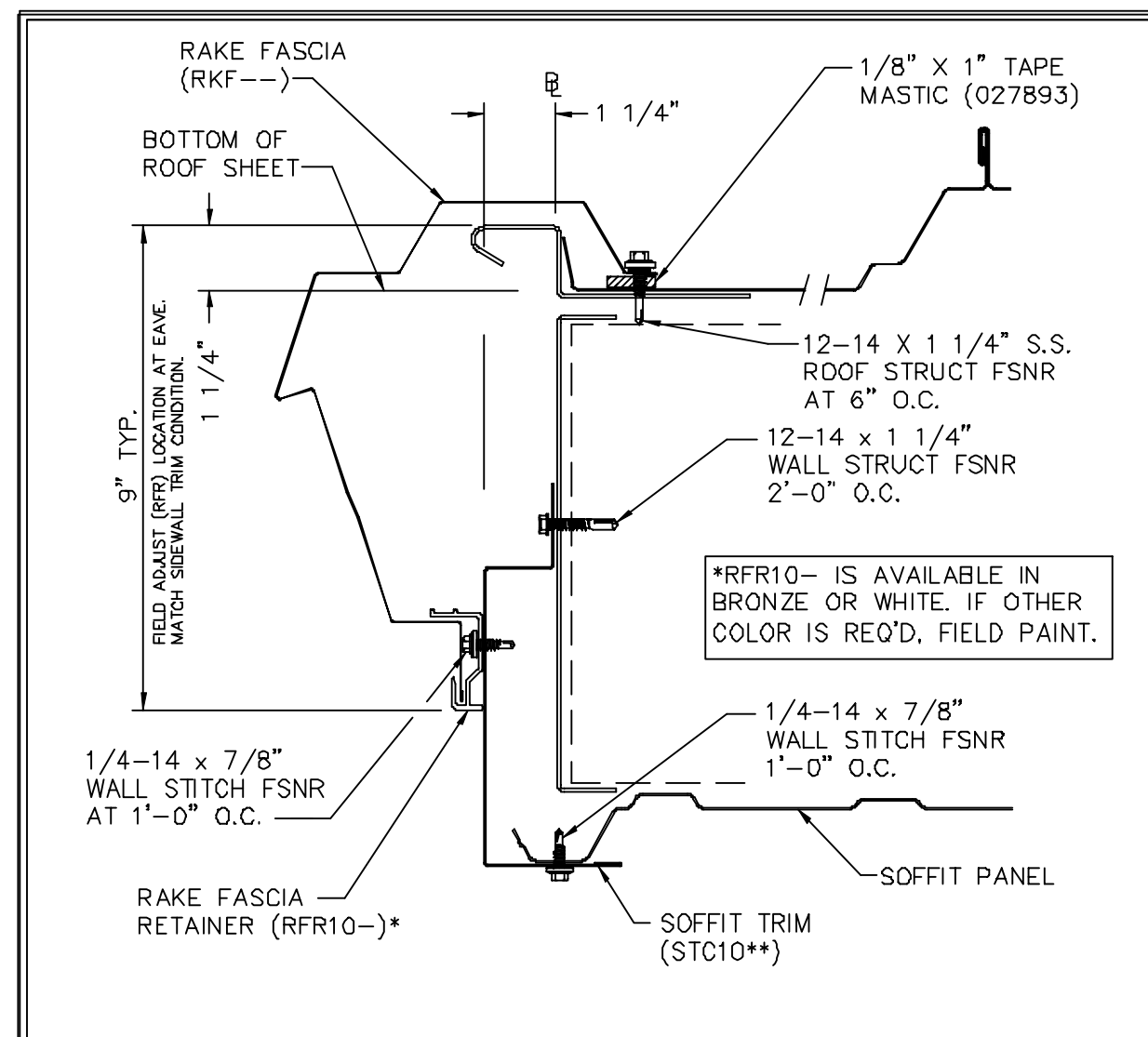
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JOBNO: 23-016001-02  
DATE: 5/1/2024  
DRAWN/CHECK: LKH SM/CS  
PAGE: 49

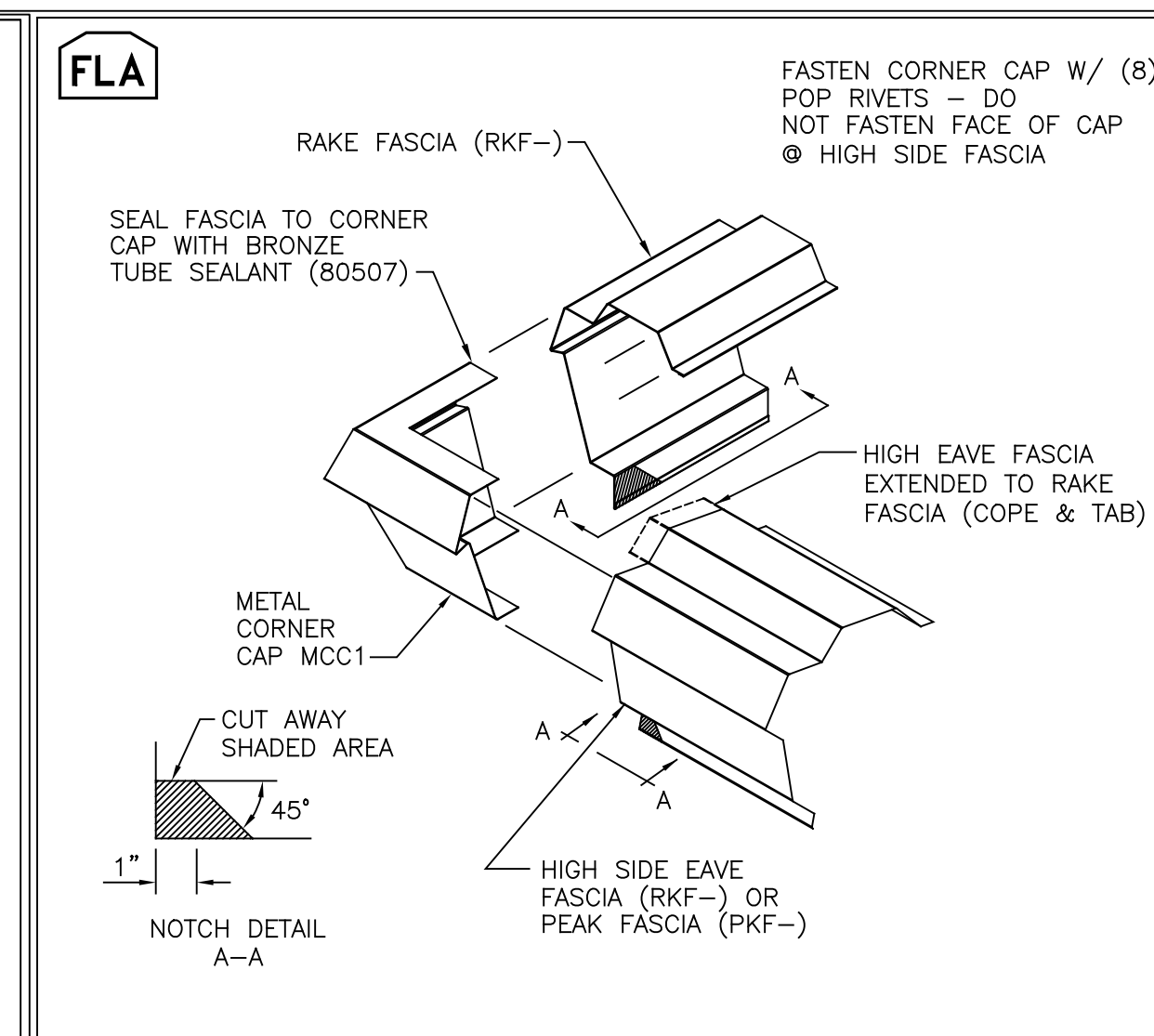
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A BlueScope Steel Company

5/14/2024 SEDSheet 13:48:55

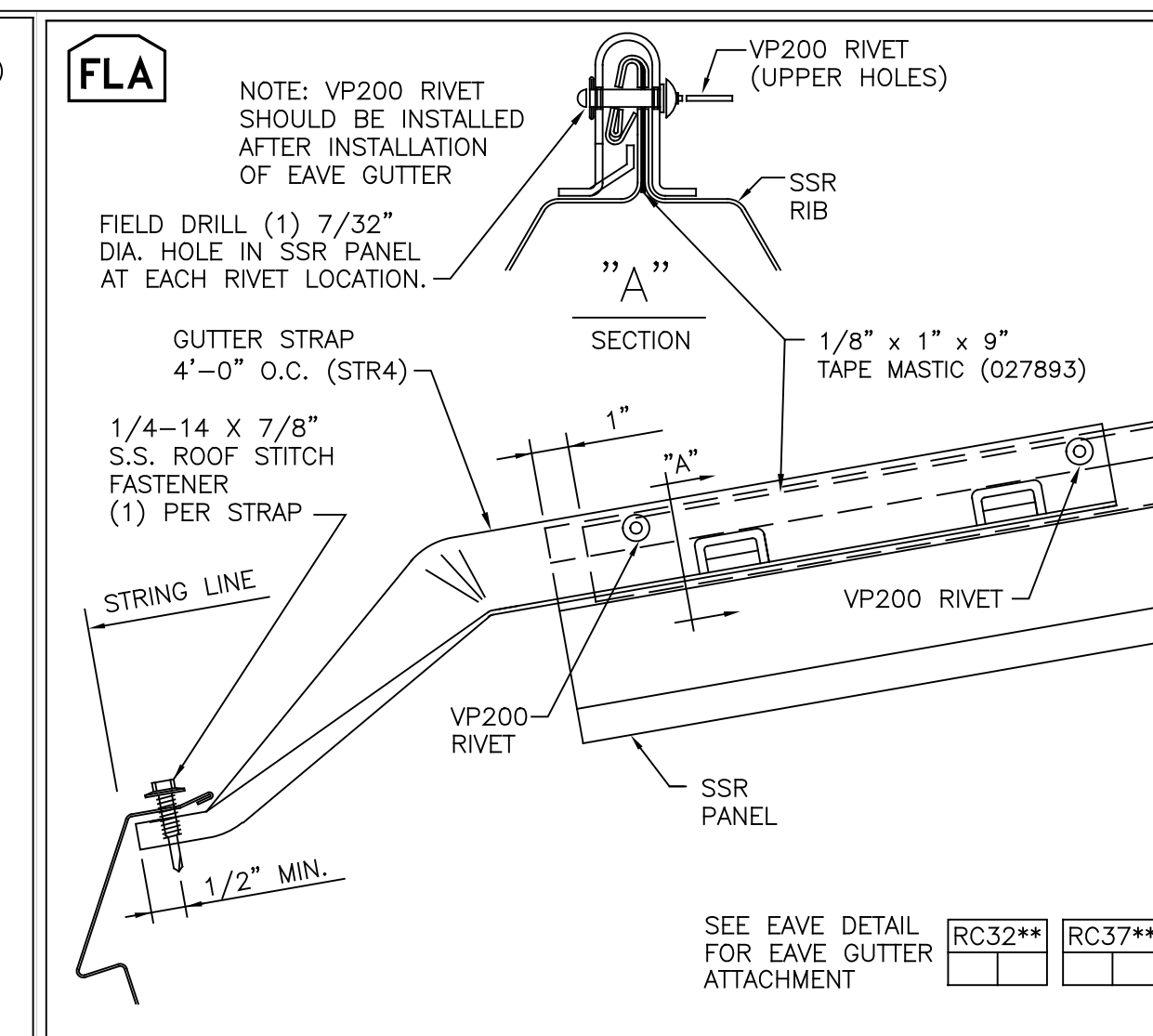




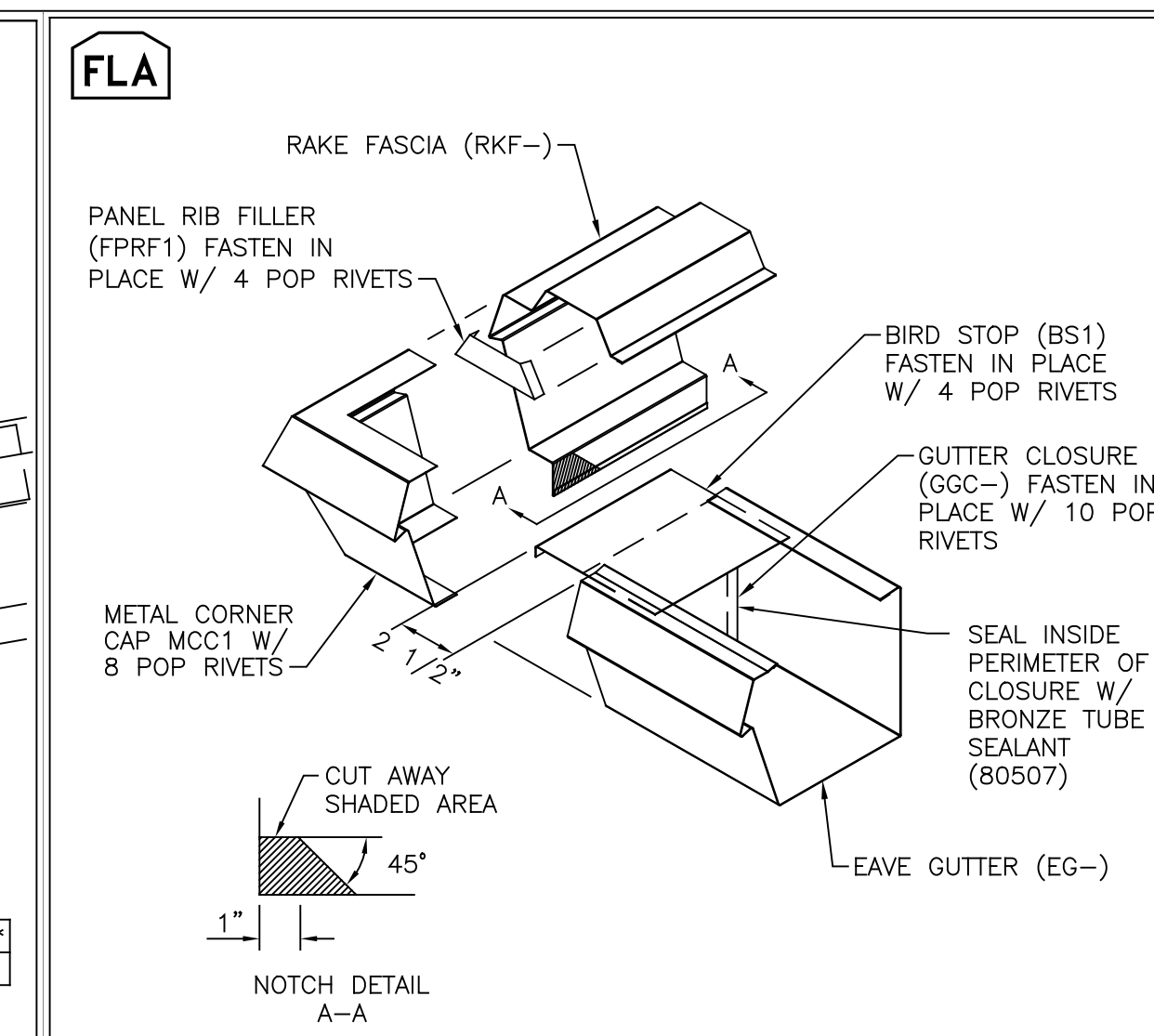
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RC30A9 SSR RAKE TRIM (WITH SOFFIT)  
PR, VR OR RPR CANOPY RAKE - ALL ROOF EXT.



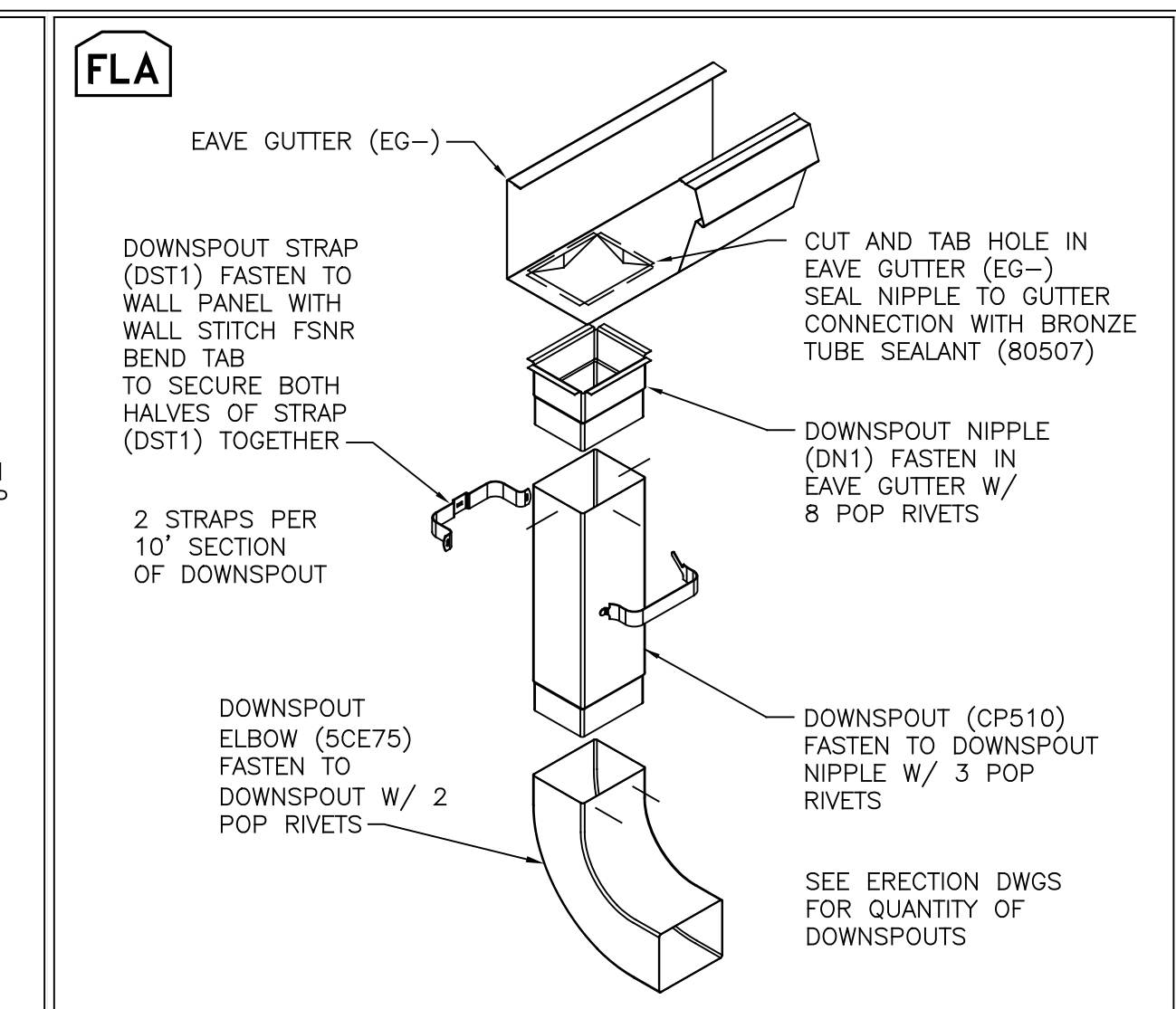
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RC38AJ HIGH EAVE CORNER ASSEMBLY  
ALL WALL SYSTEMS (SSR, PANEL RIB ROOFS)



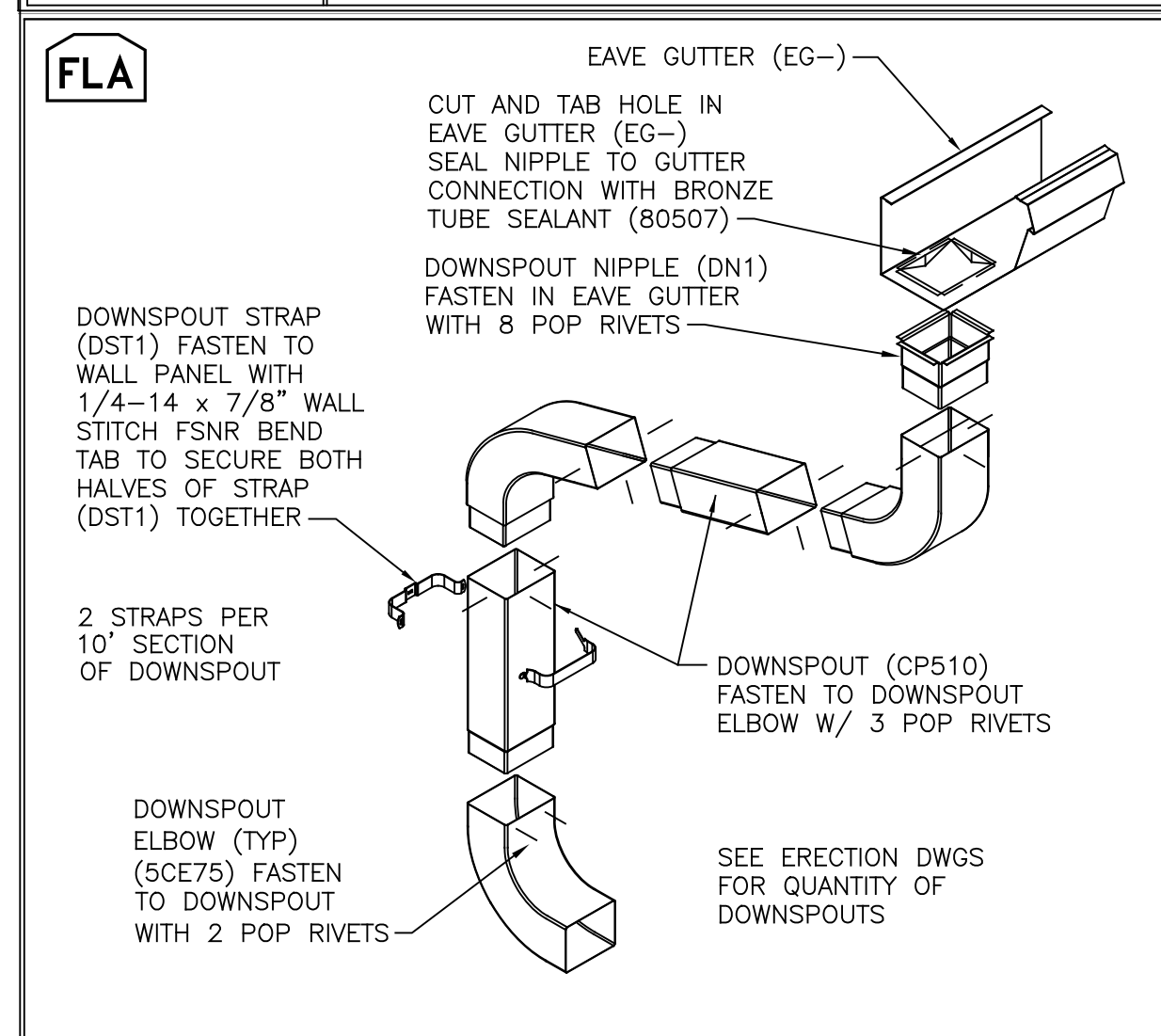
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RC38E1 GUTTER STRAP ATTACHMENT  
SSR ROOF (NON-ICE DAMMING)



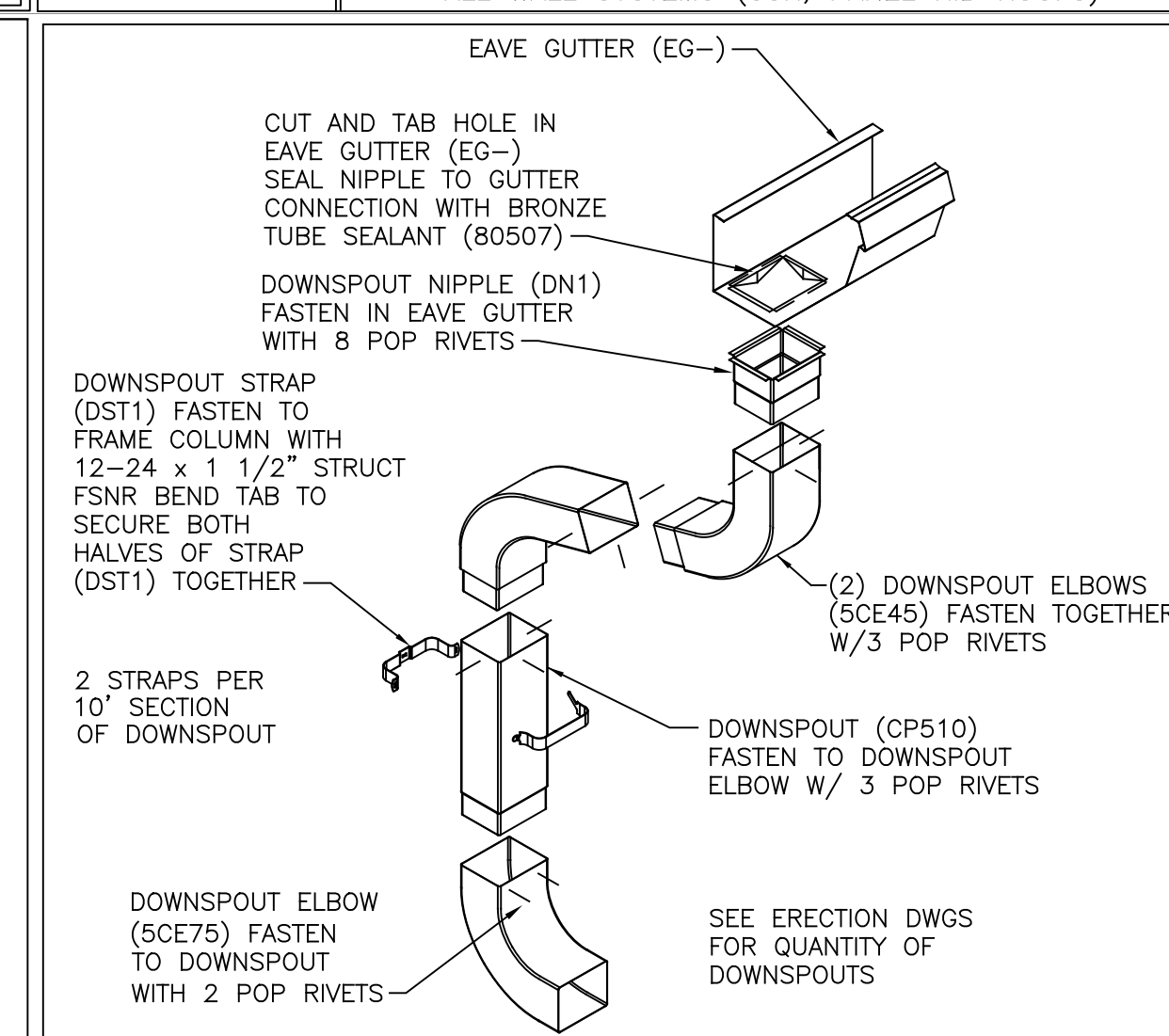
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RC38N1 EAVE GUTTER CORNER ASSEMBLY  
ALL SYSTEMS



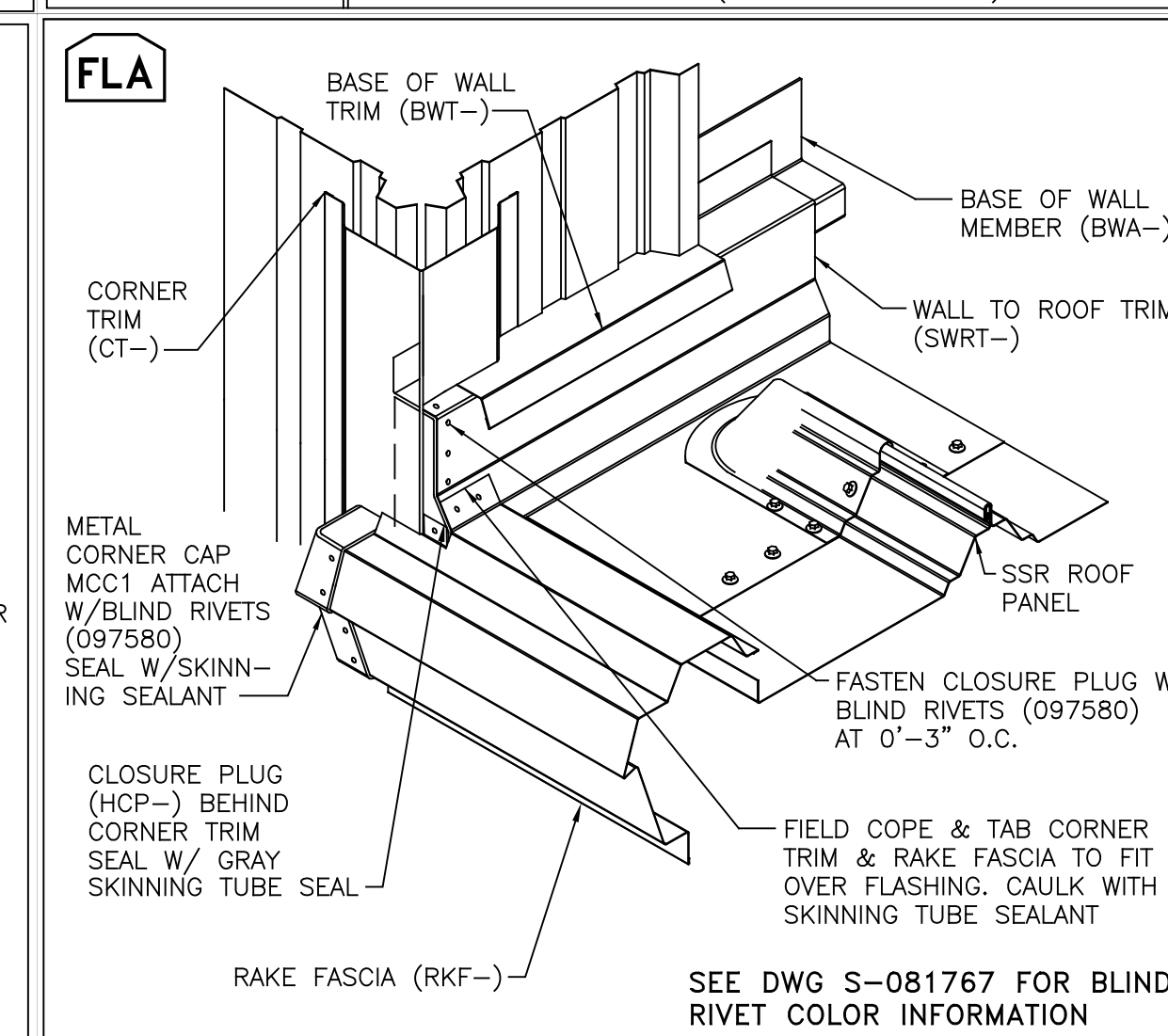
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RC38P1 DOWNSPOUT ASSEMBLY  
ALL SYSTEMS



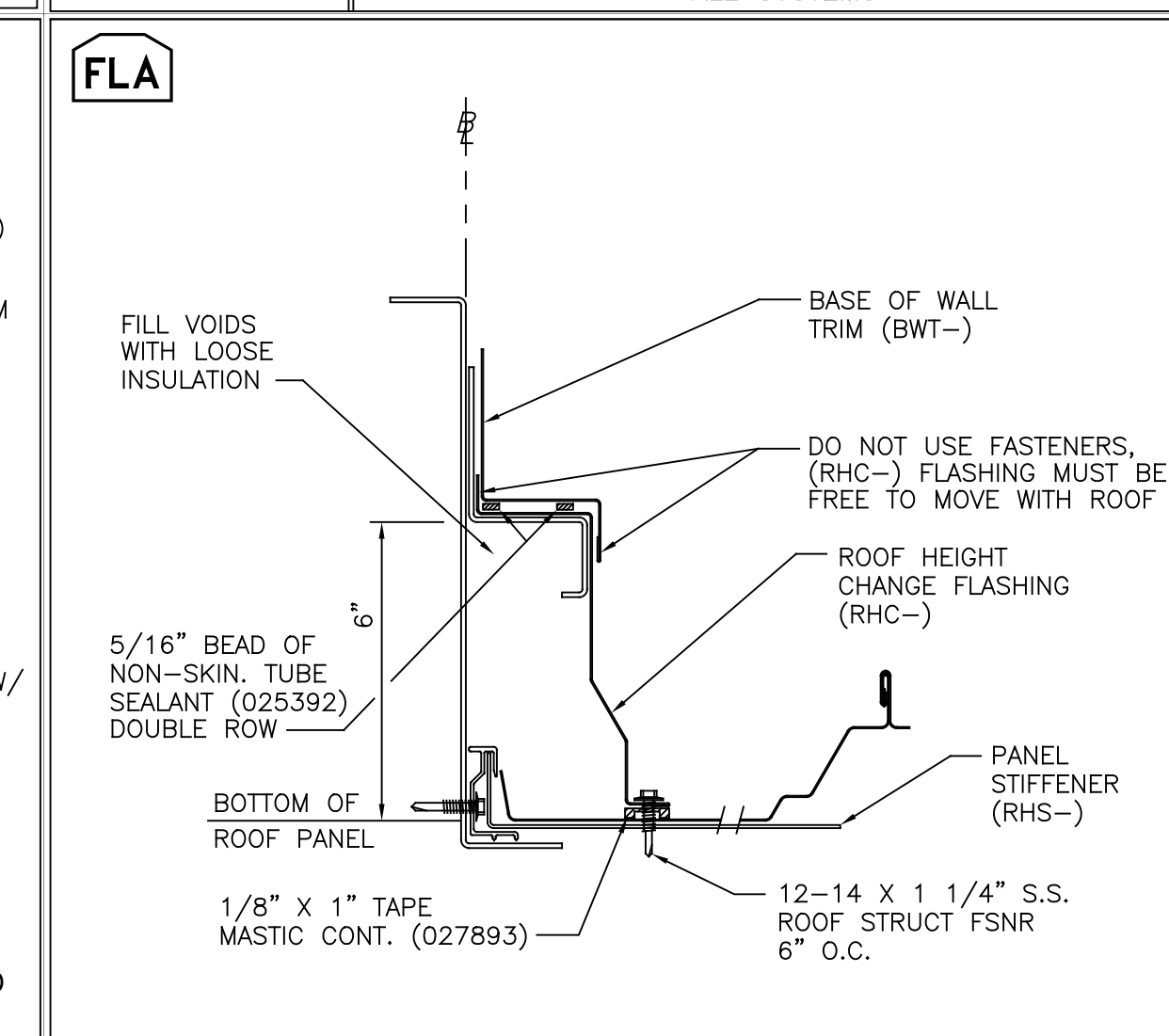
REV. DATE: 06/26/19 REV. NO. 04  
RC38R1 DOWNSPOUT ASSEMBLY  
ALL SYSTEMS (WITH CANOPY)



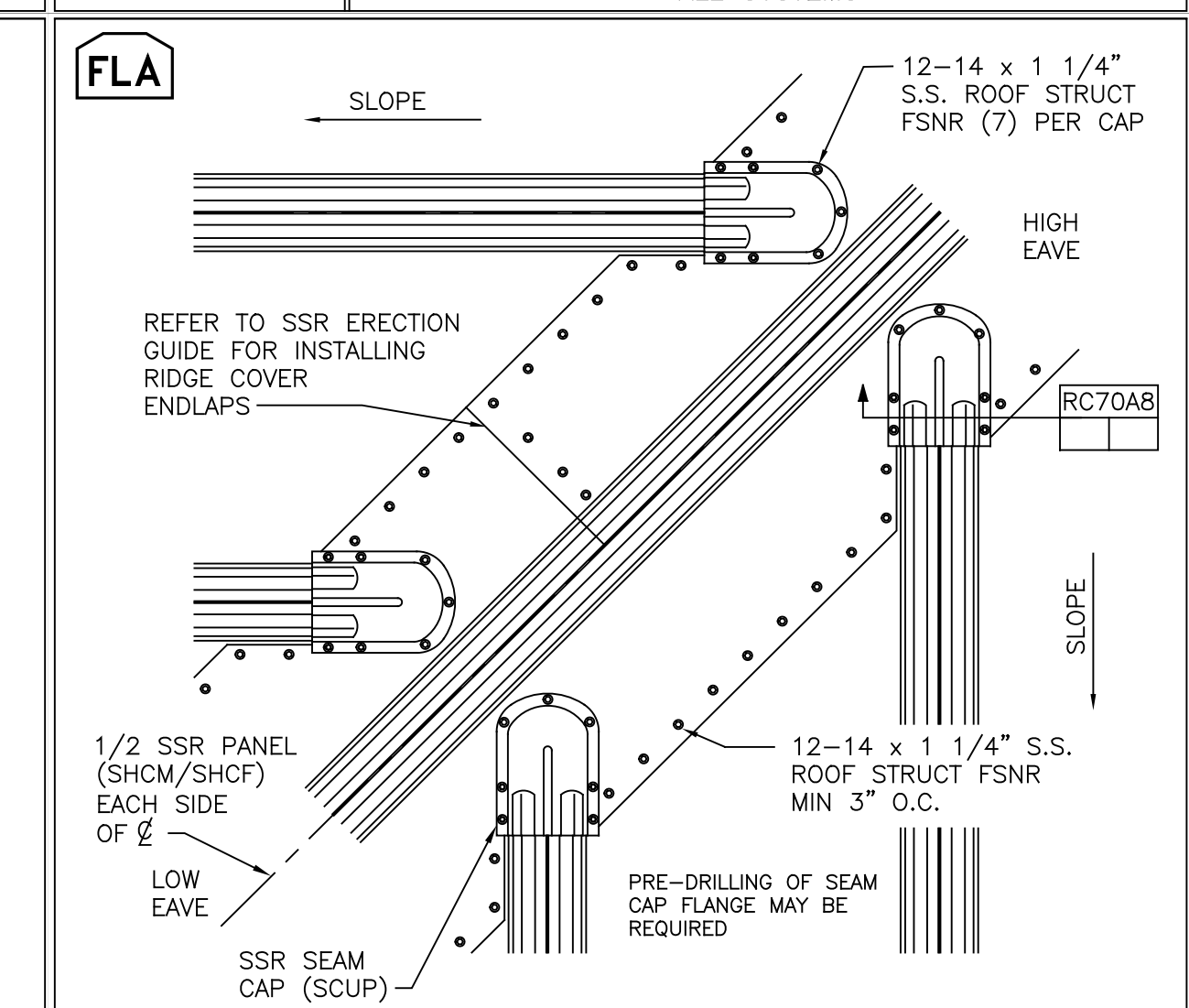
REV. DATE: 09/15/22 REV. NO. 00  
RC38R2 DOWNSPOUT ASSEMBLY  
ALL SYSTEM (OPEN WALLS)



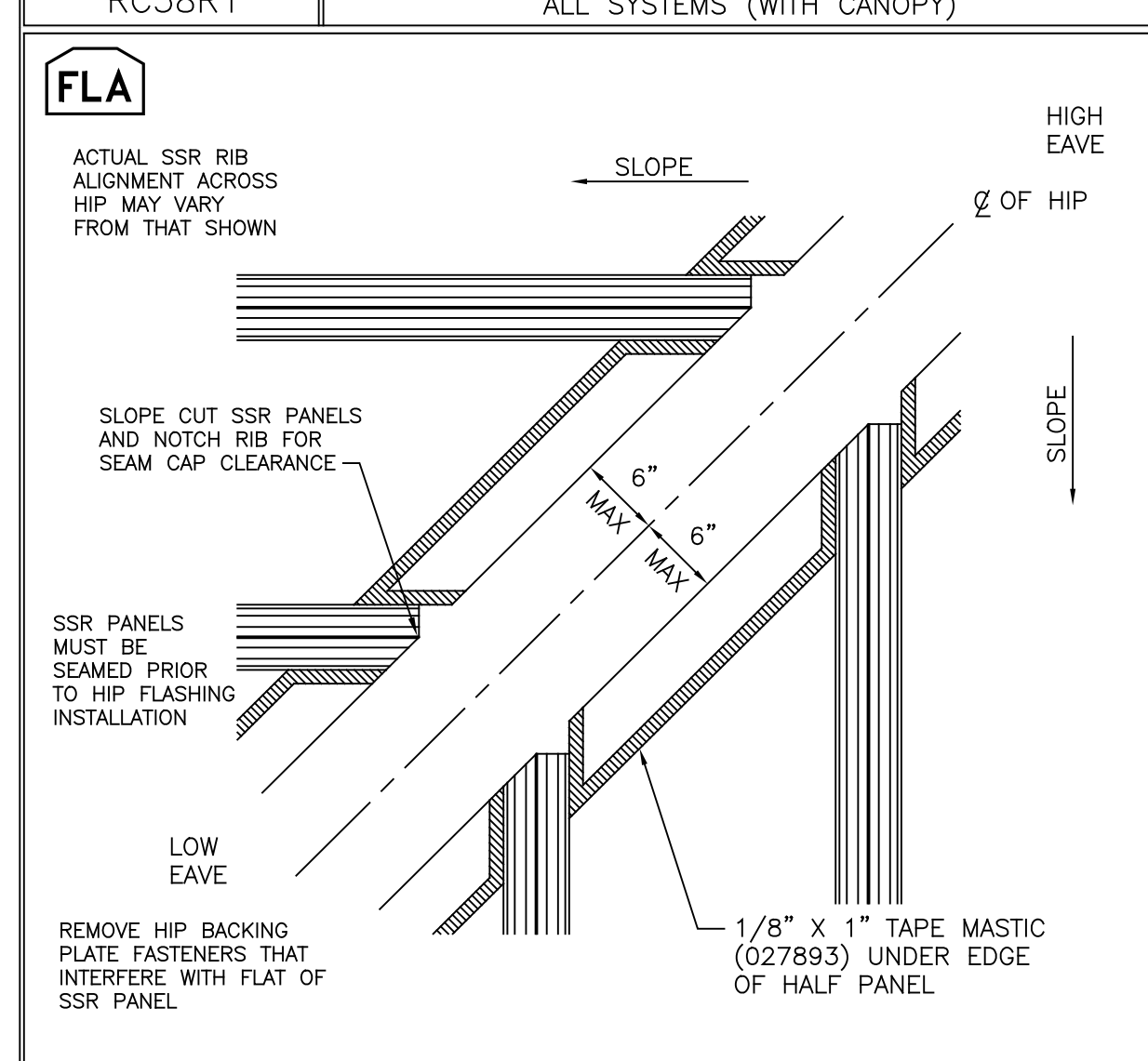
REV. DATE: 06/26/19 REV. NO. 05  
RC50H3 WALL TO ROOF TRANS. AT RAKE  
METAL FLASHING (VIEWED FROM ROOF)



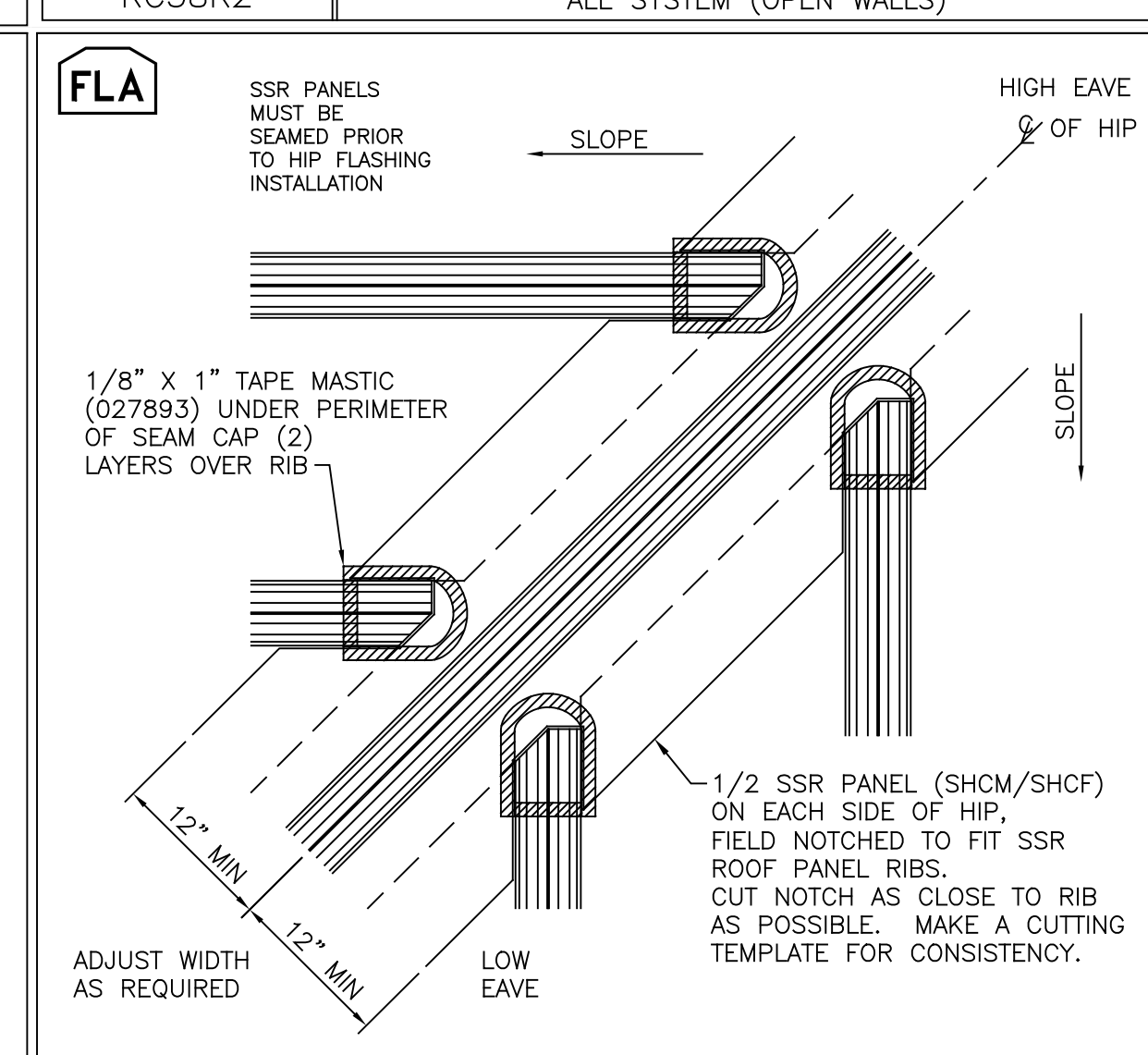
REV. DATE: 06/26/19 REV. NO. 03  
RC52A1 ROOF HEIGHT CHANGE FLASHING  
SSR ROOF (METAL FLASHING)



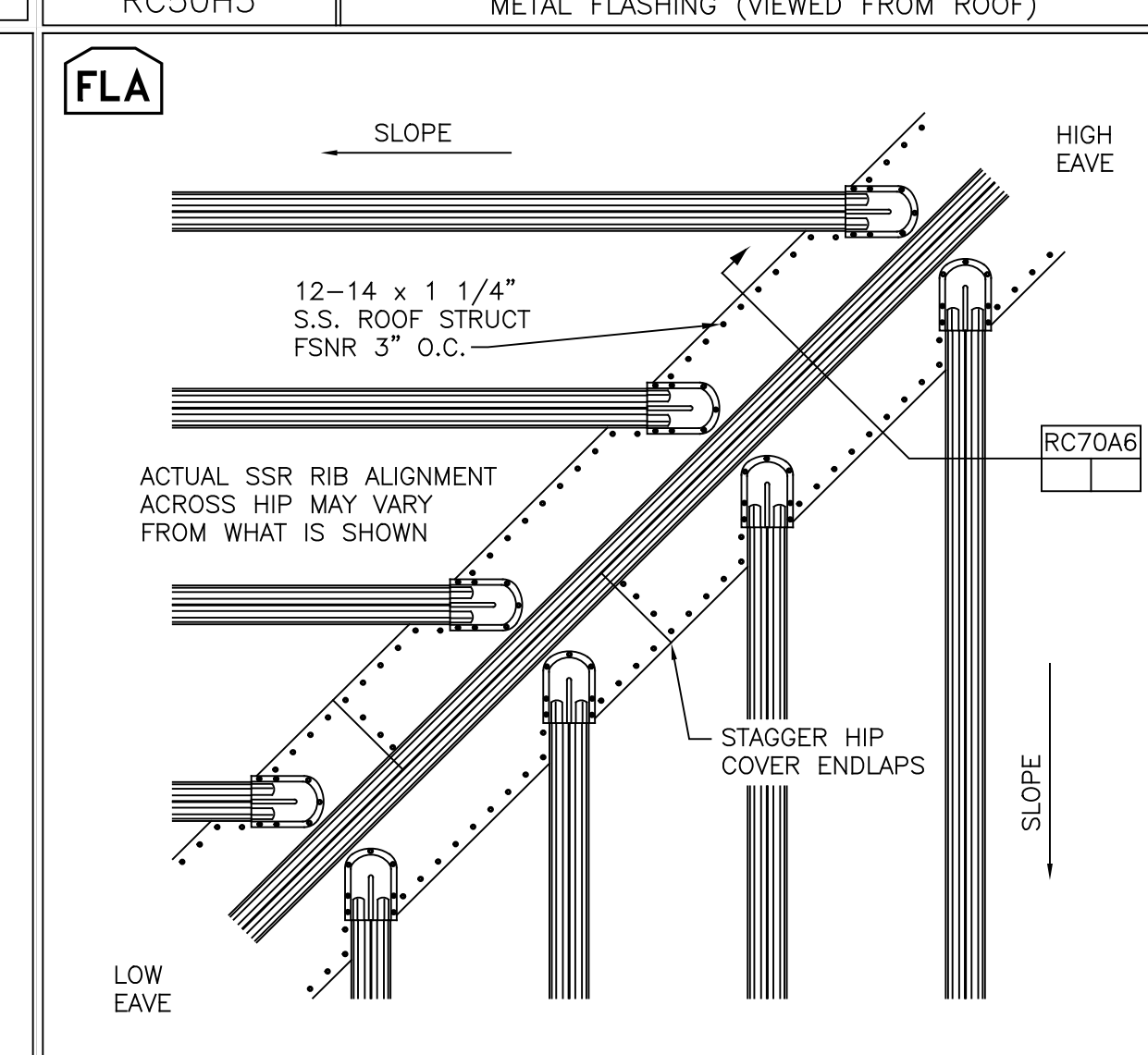
REV. DATE: 06/26/19 REV. NO. 01  
RC70A1 SSR HIP FLASHING



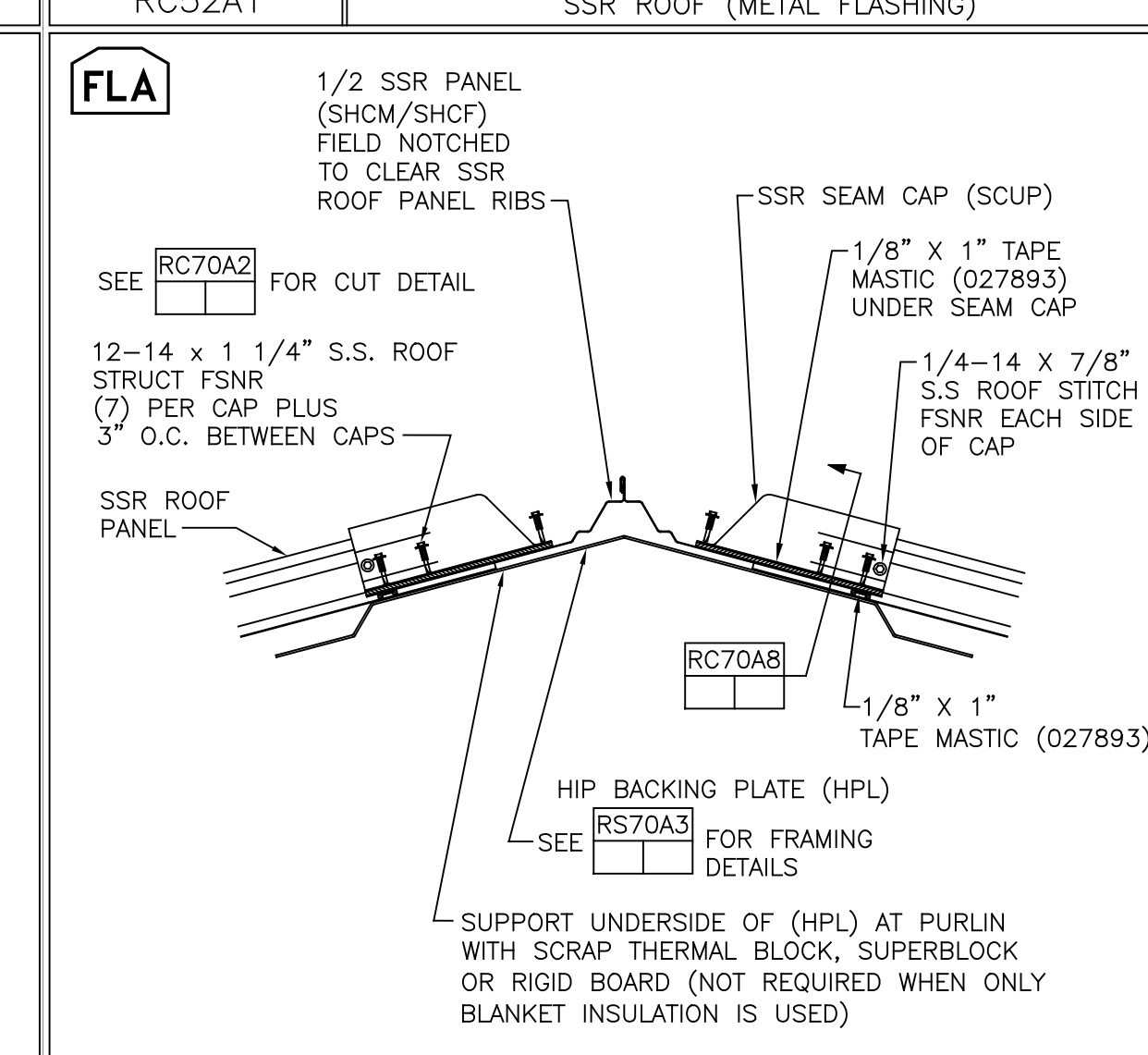
REV. DATE: 06/26/19 REV. NO. 02  
RC70A2 SSR HIP SHEETING INSTALLATION



REV. DATE: 06/26/19 REV. NO. 02  
RC70A3 SSR HIP FLASHING



REV. DATE: 06/26/19 REV. NO. 01  
RC70A4 SSR HIP SHEETING PLAN



REV. DATE: 06/26/19 REV. NO. 03  
RC70A6 SSR HIP FLASHING  
SECTION VIEW

**MMSA**  
STRUCTURAL ENGINEERS  
RECEIVED: 08/01/2024

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5/28/2024  
BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
NORTH CAROLINA REGISTERED ENGINEERING FIRM F-6998

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VP Buildings  
3200 Players Club Circle Memphis TN 38125

REV	DATE	BY	DESCRIPTION

NTS  
5/14/2024 SEDSheet 13:48:57

**COVERING & TRIM SED'S (b)**

BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - Operations
BUILDERS PO#	23068 - Ops
FILENAME:	hip Duke Energy - Ops

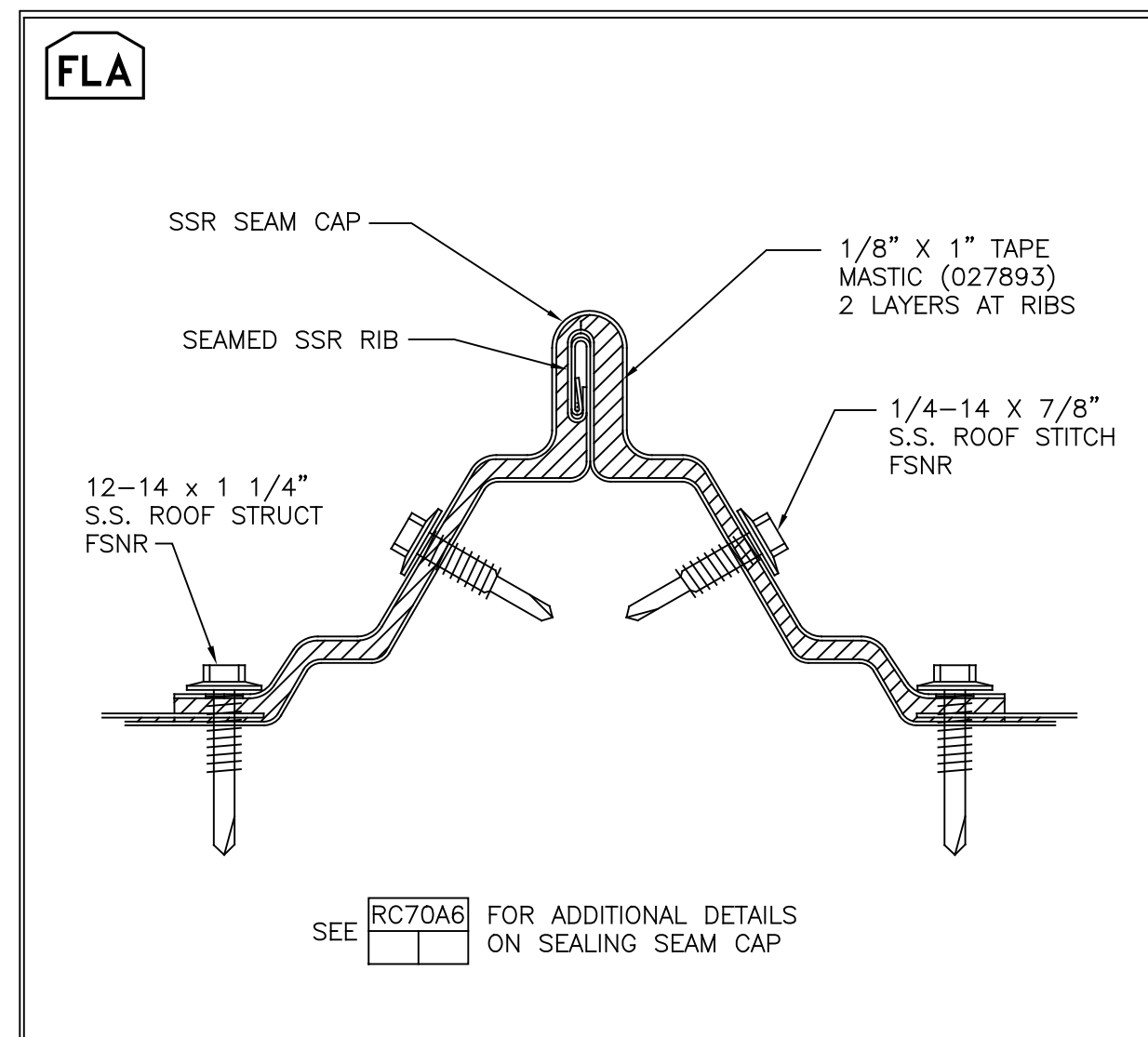
VP BUILDINGS  
VARCO PRUDEN  
A BlueScope Steel Company

VP BUILDINGS  
STRUCTURAL ENGINEERS  
RECEIVED: 08/01/2024

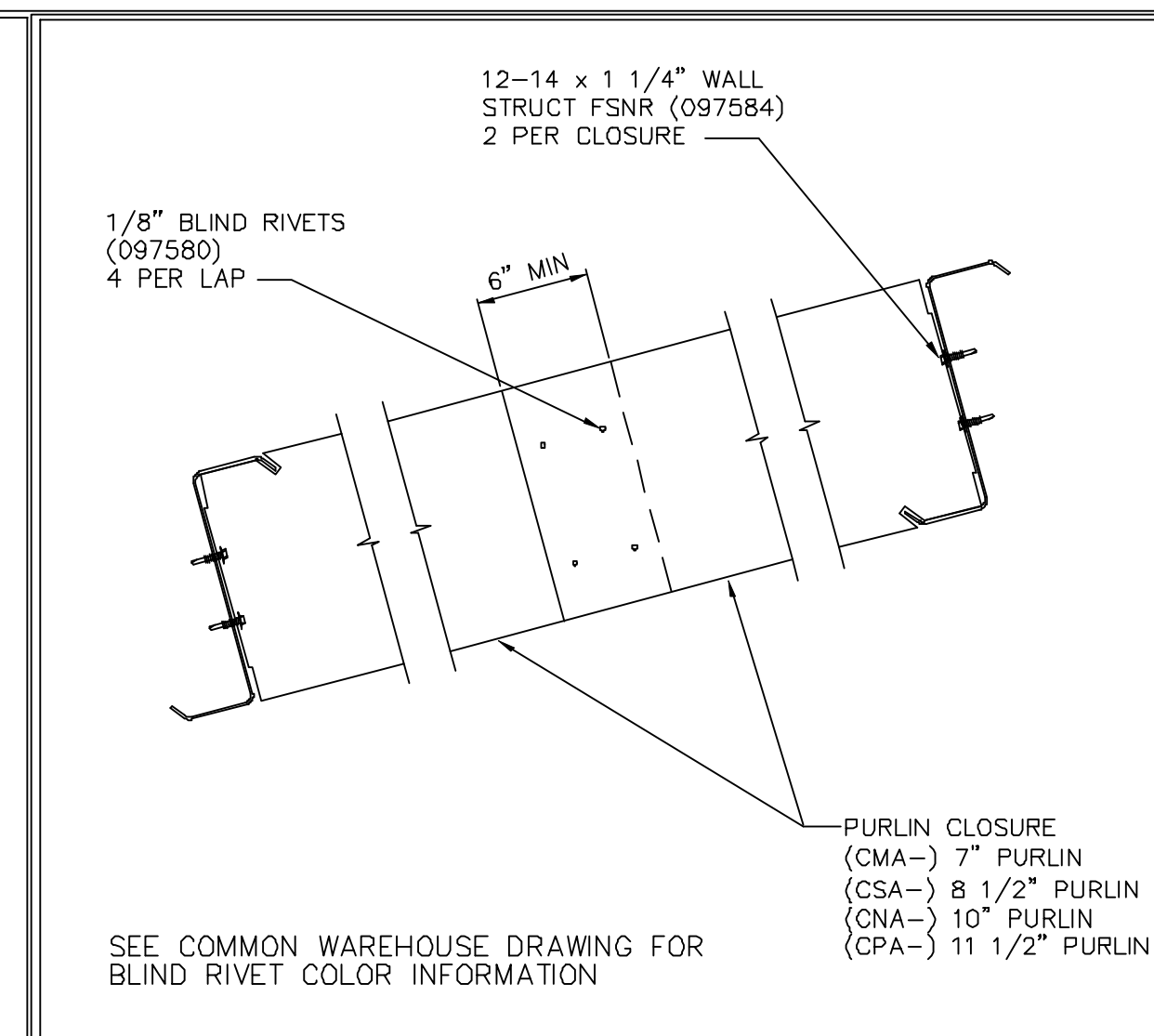
SEAL 047190  
ALAN M. JUNGNIETSCH  
REGISTERED PROFESSIONAL ENGINEER

5/1/2024  
DATE  
5/1/2024  
DRAWN/CHECKED  
LKH SM/CS  
PAGE 50

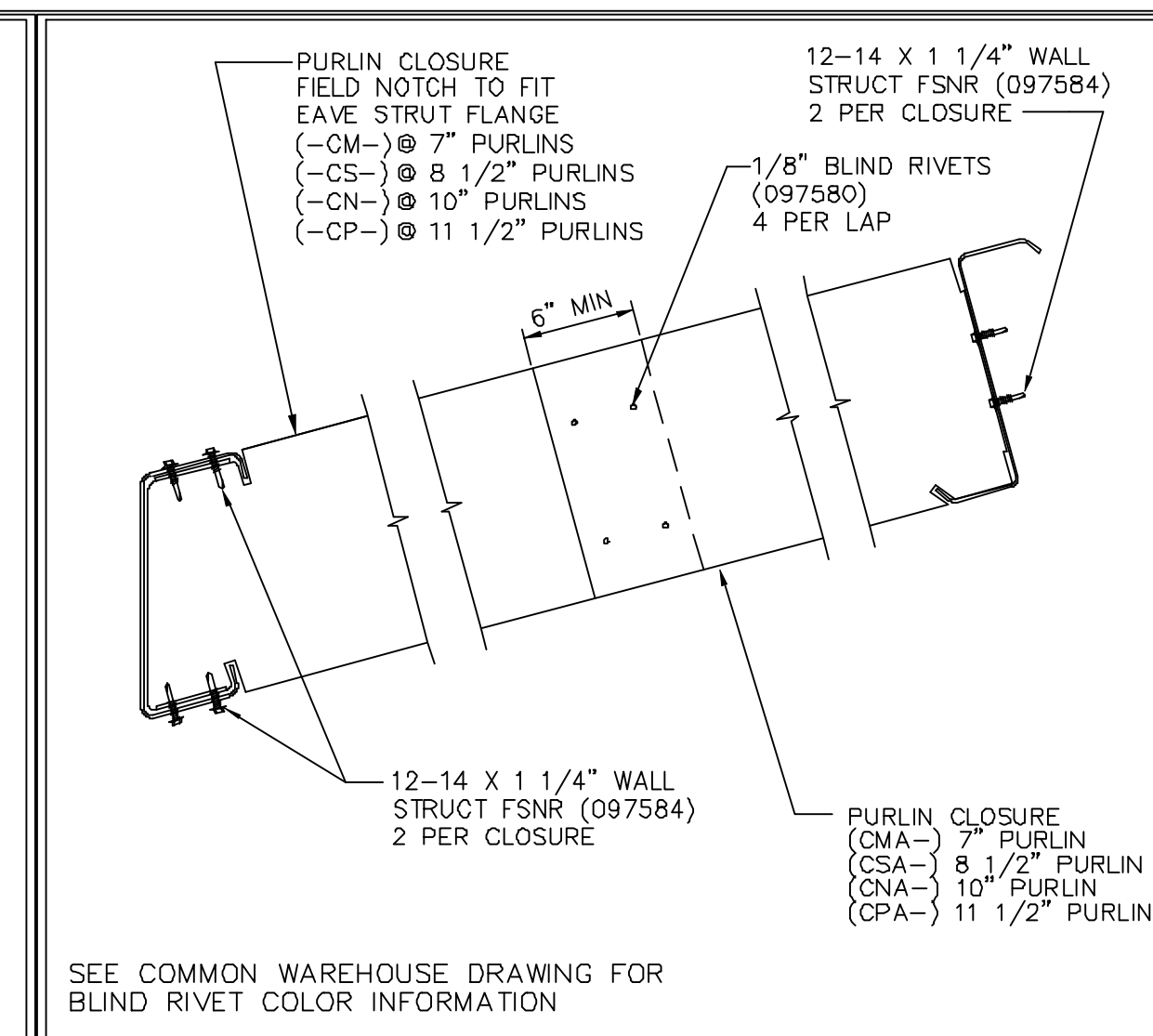
a division of BlueScope Buildings North America, Inc.



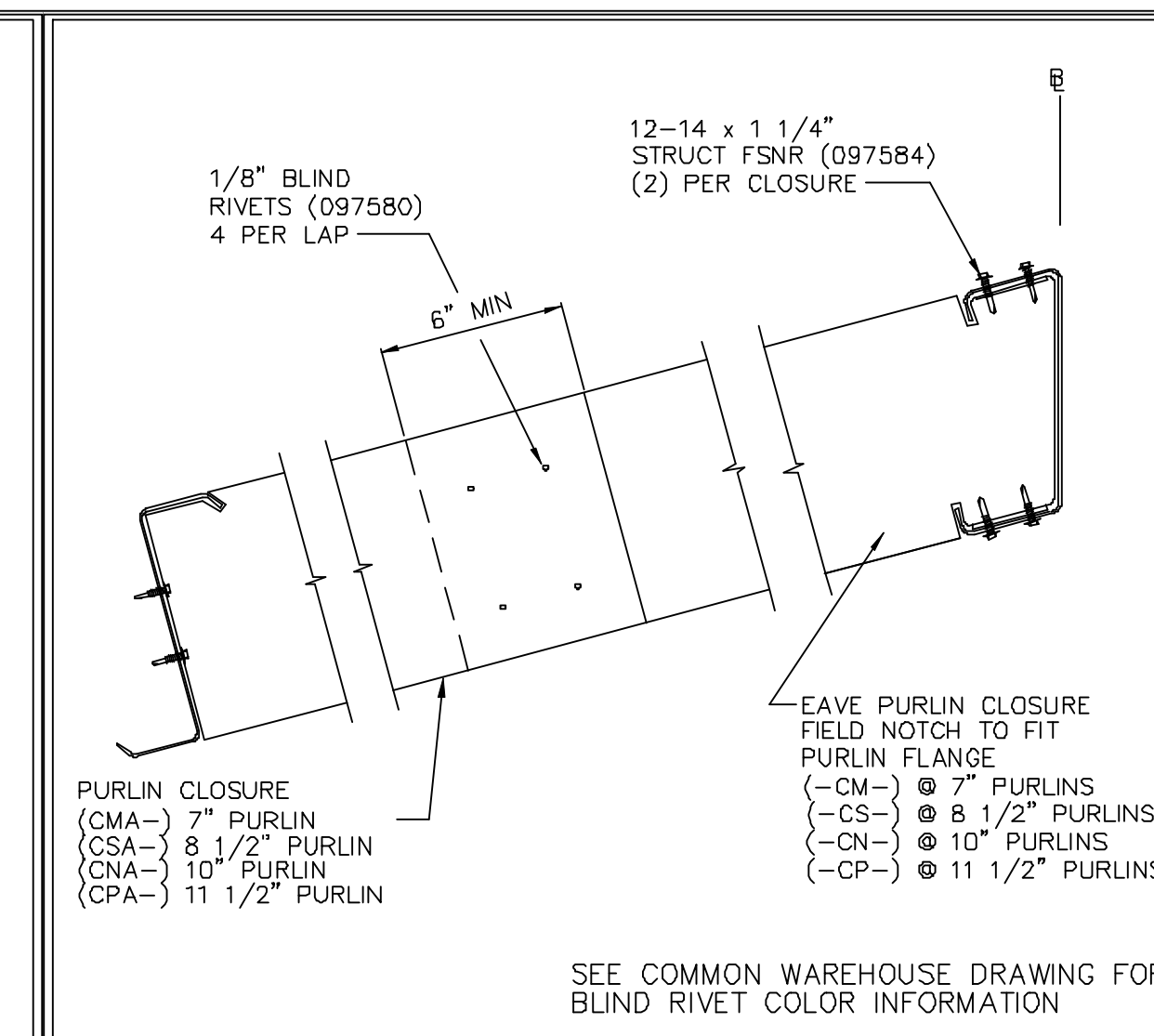
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RC70A8 SEAM CAP WEATHERSEAL SEAM CAP AT HIP



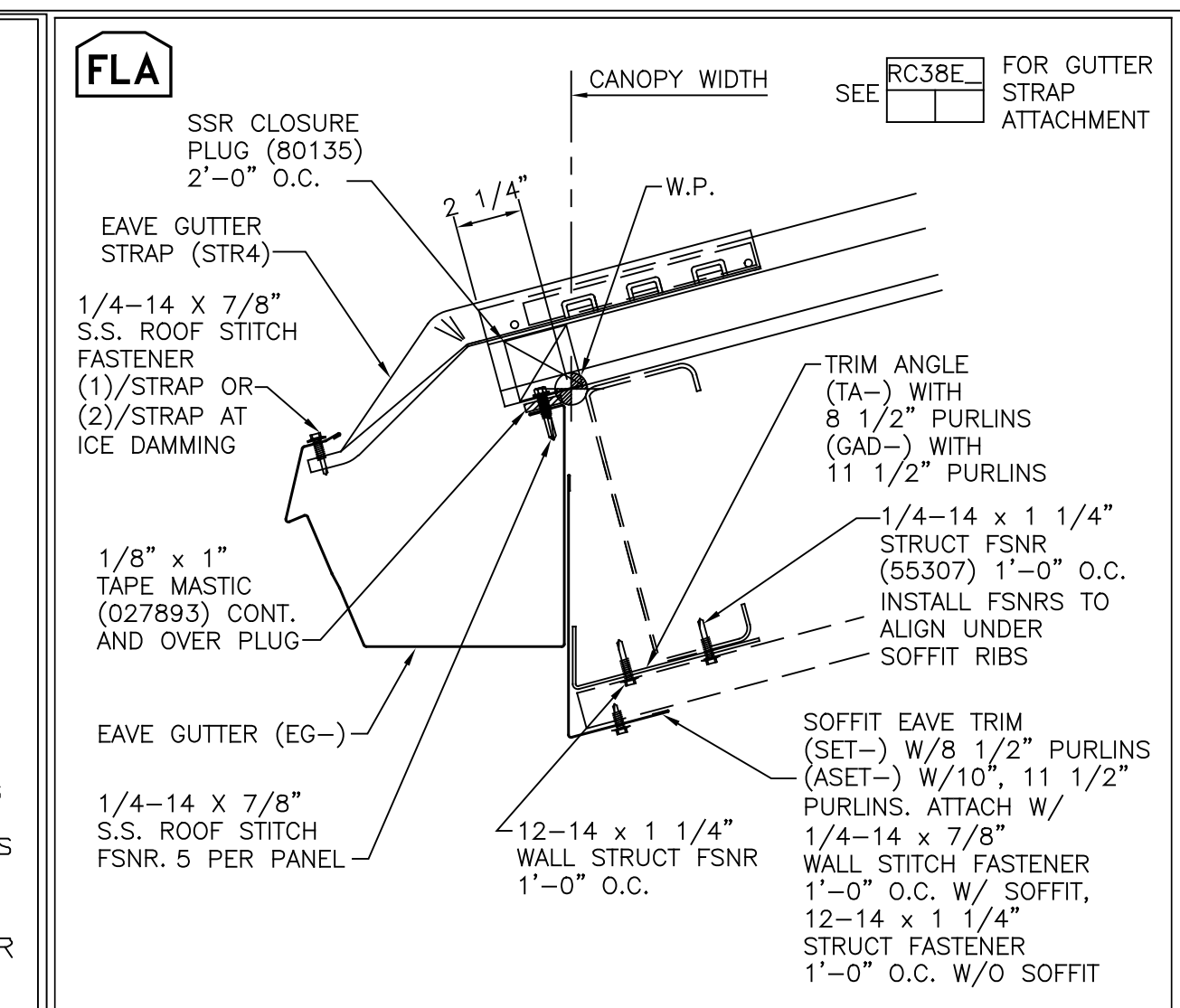
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RC80E3 PURLIN CLOSURES PURLIN TO PURLIN



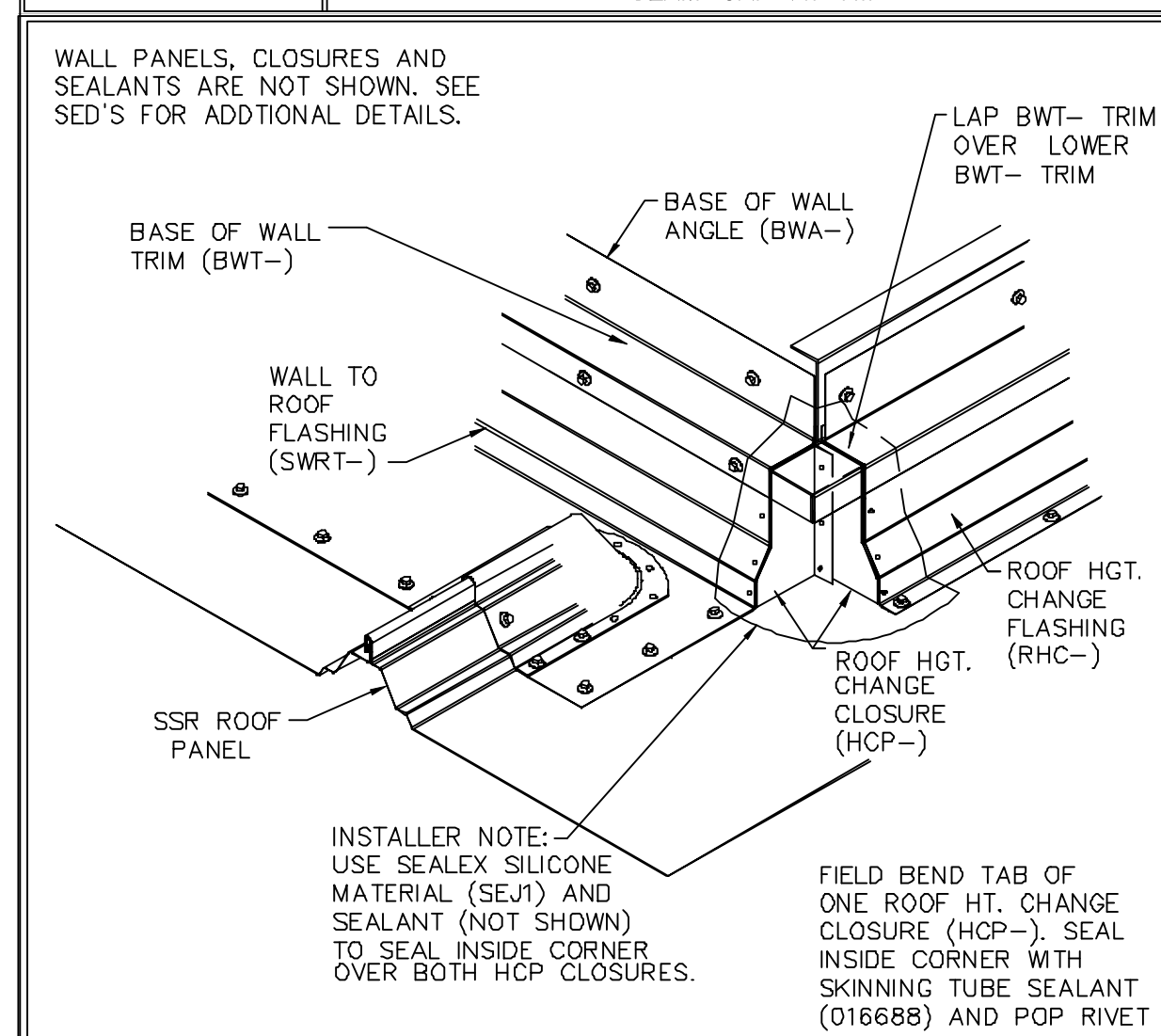
REV. DATE: 04/17/17 | REV. NO. 04  
RC80G1 PURLIN CLOSURES EAVE PURLIN TO PURLIN



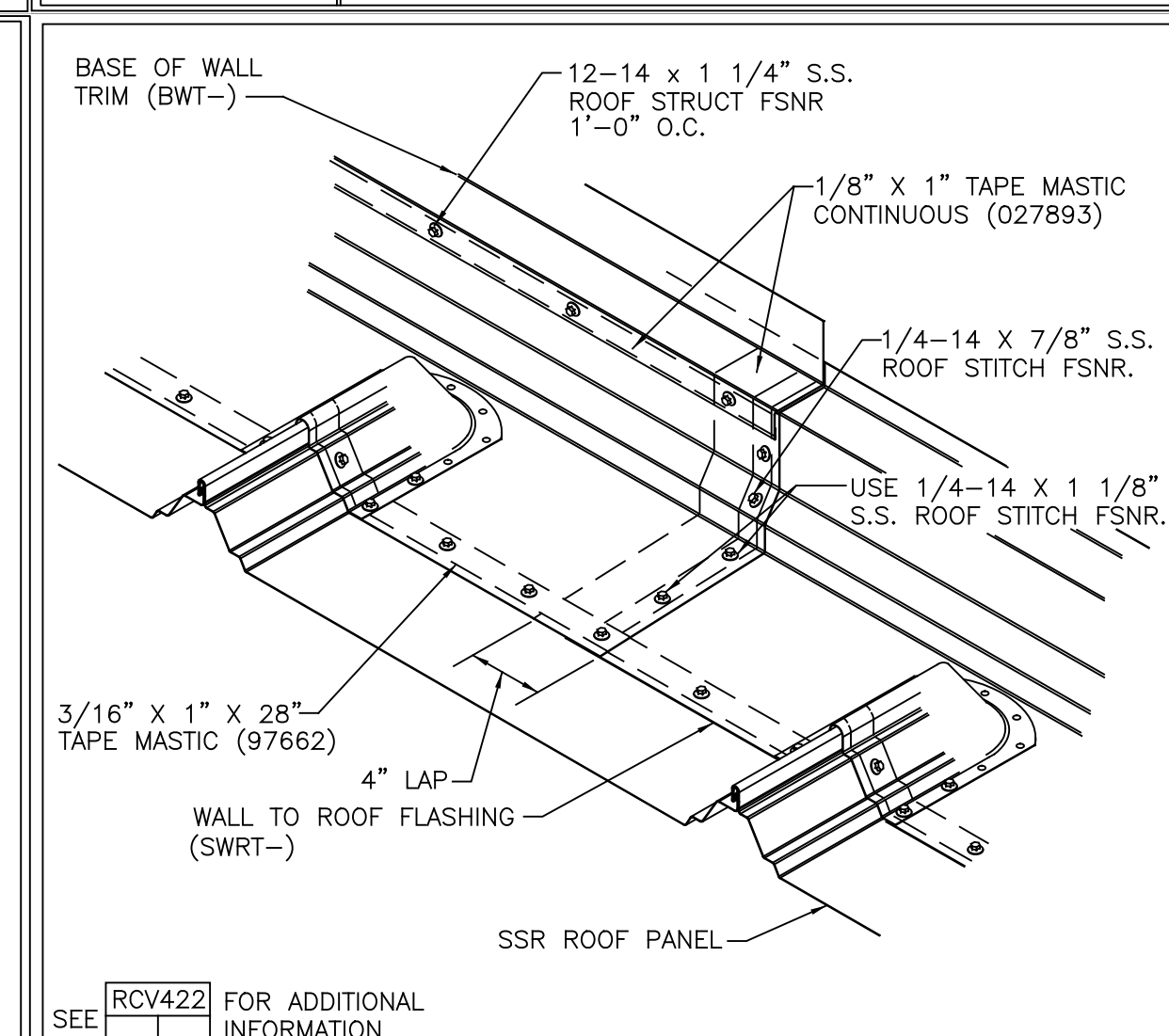
REV. DATE: 04/17/17 | REV. NO. 05  
RC80G4 PURLIN CLOSURES HIGH EAVE PURLIN SPACE



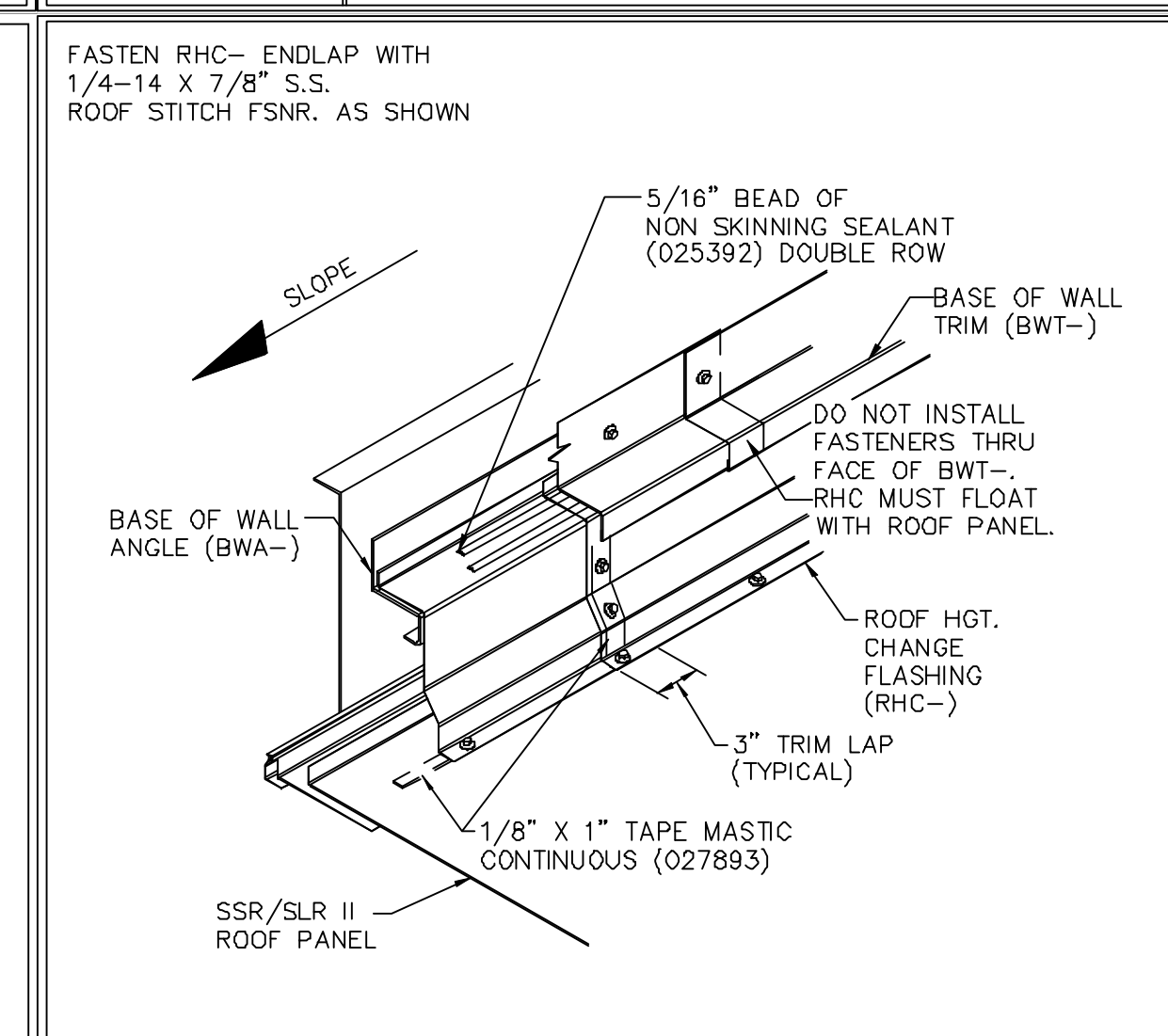
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RCV009 SSR ROOF W/ EAVE GUTTER AT CANOPY



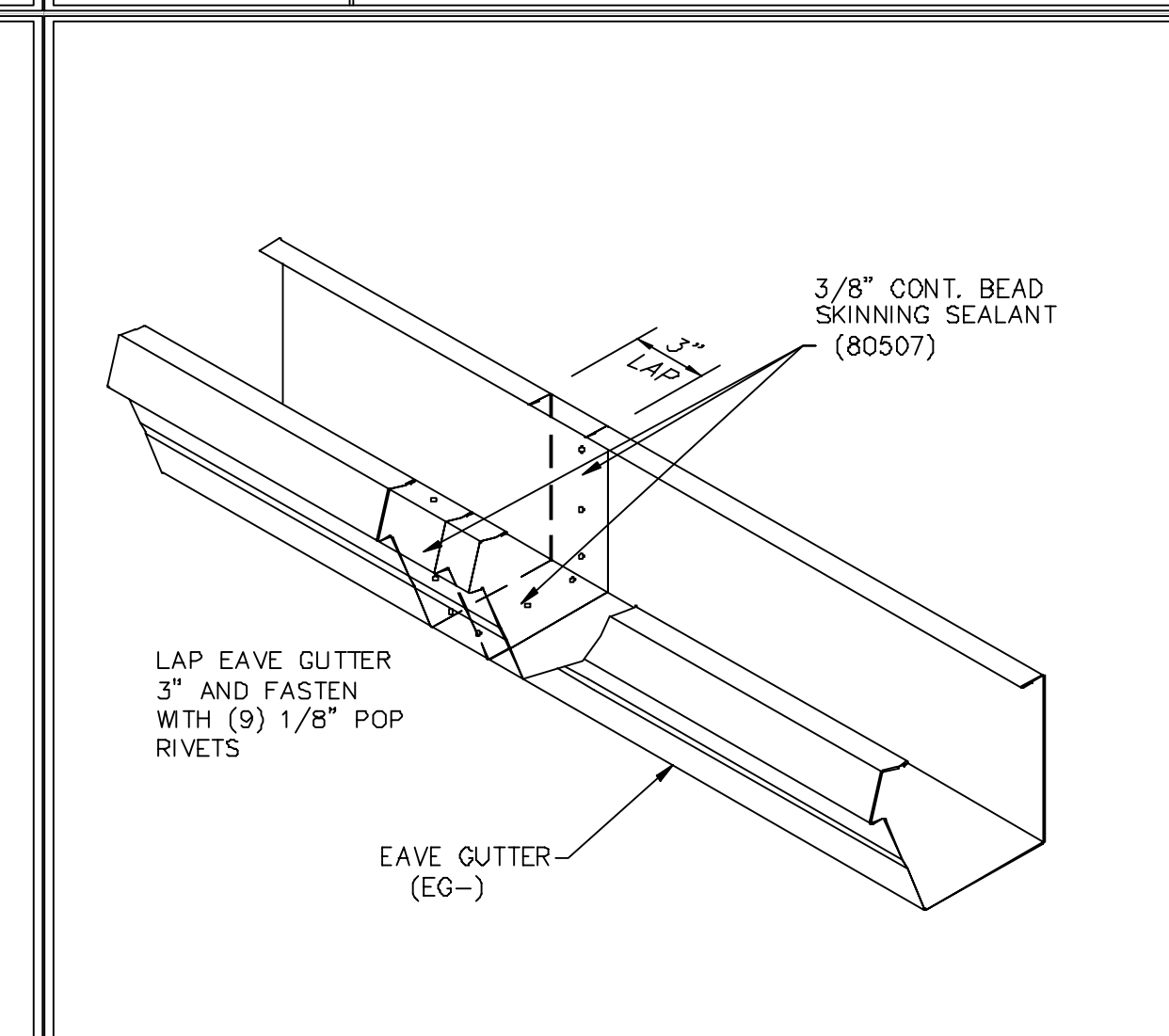
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RCV104 ROOF STEP O.S. CORNER FLASHING SSR ROOF METAL FLASHING



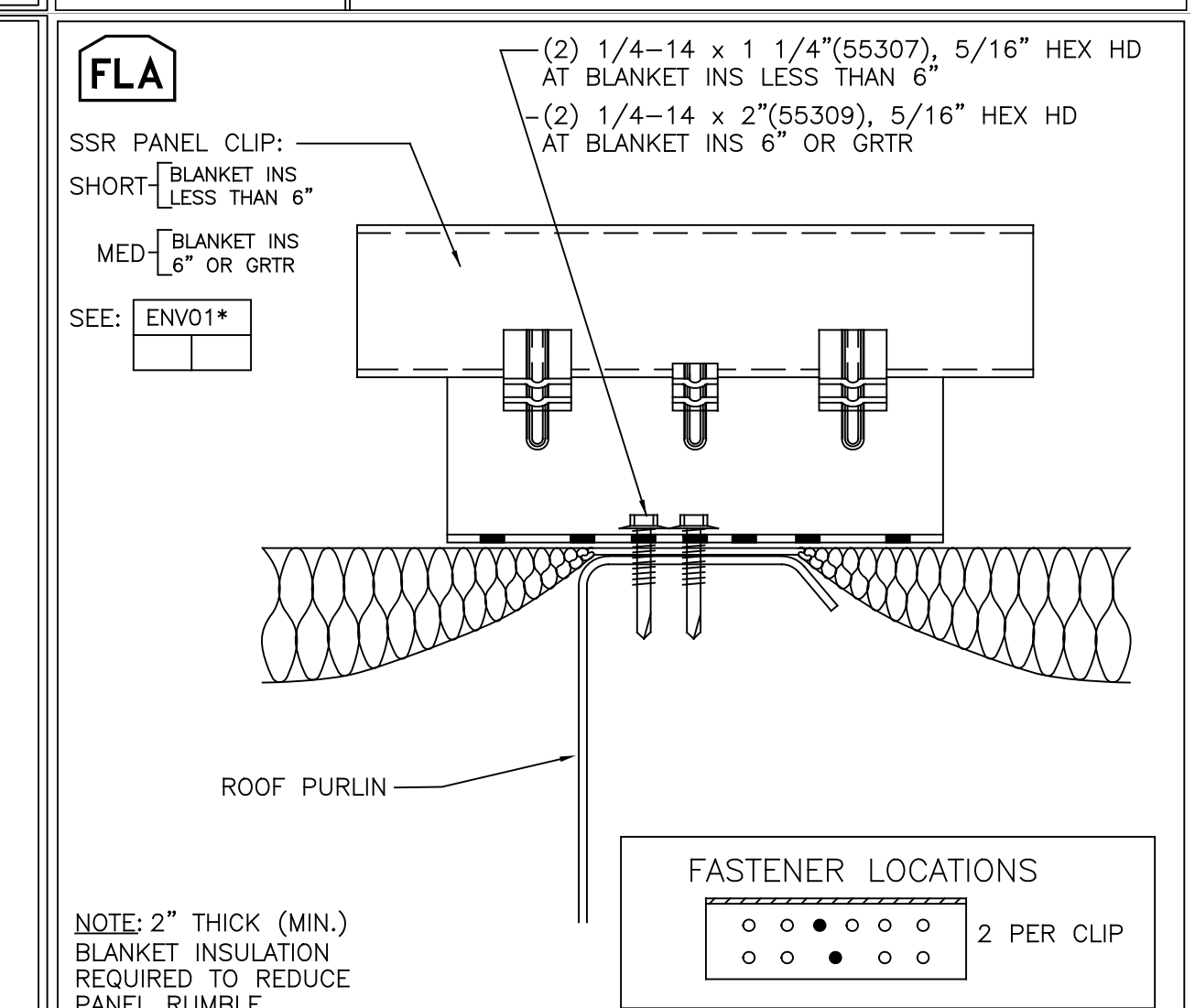
REV. DATE: 05/11/22 | REV. NO. 07  
RCV105 WALL TO ROOF SPLICE SSR ROOF METAL FLASHING



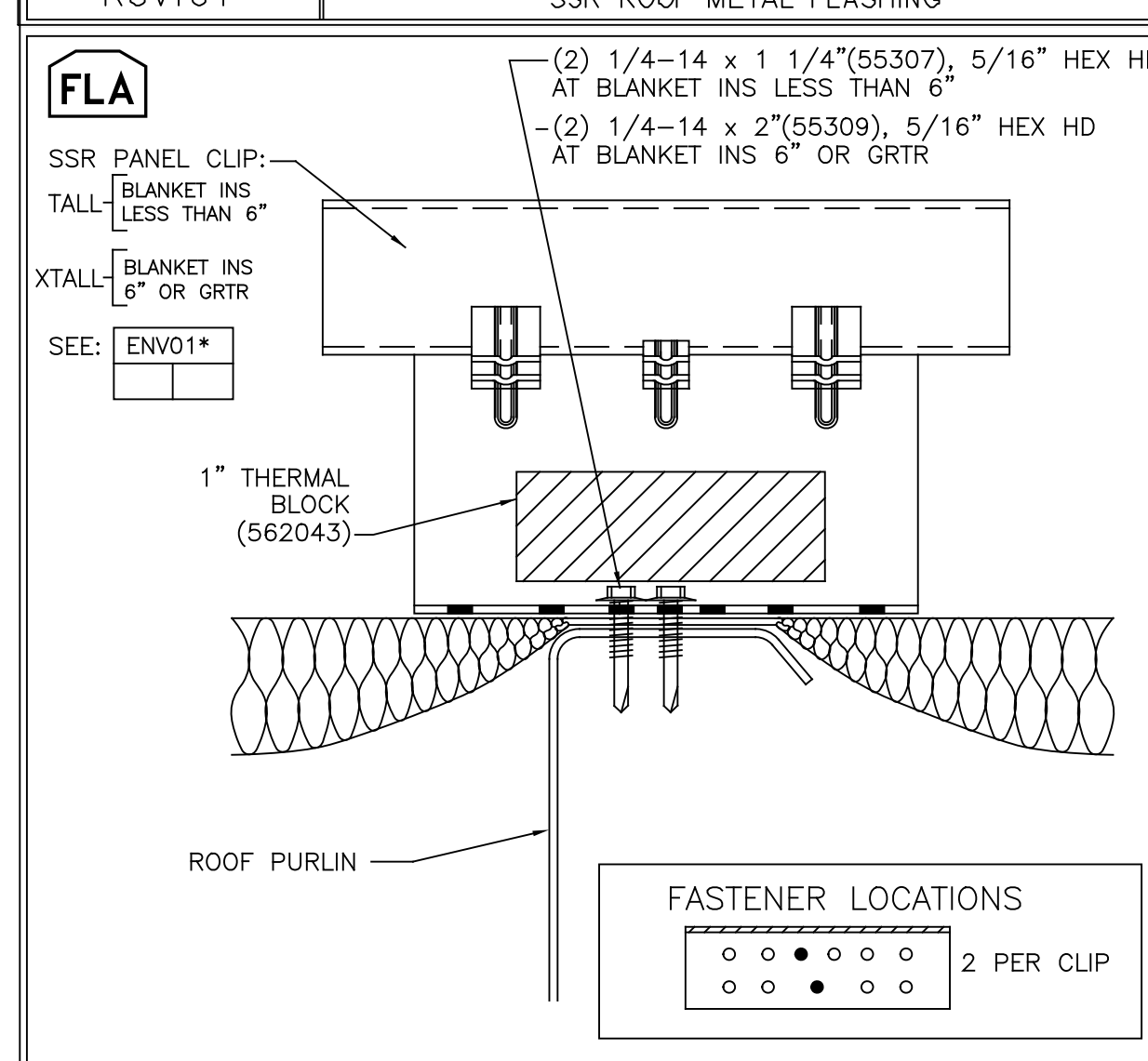
REV. DATE: 04/27/16 | REV. NO. 02  
RCV106 ROOF HEIGHT CHANGE TRIM SPLICE SSR/SLR II ROOF METAL FLASHING



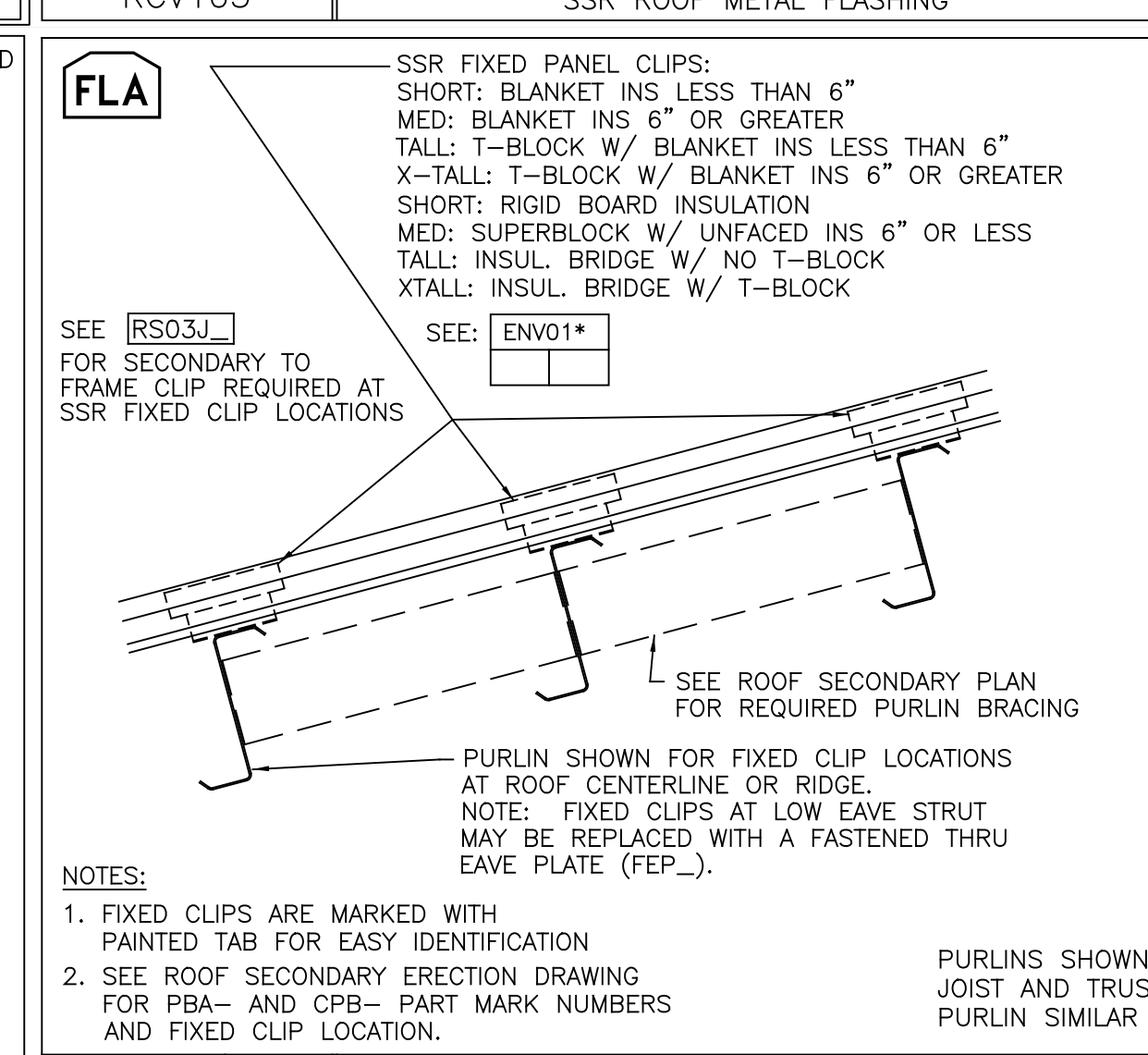
REV. DATE: 03/03/15 | REV. NO. 00  
RCV324 TRIM SPLICES EAVE GUTTER SPLICE



REV. DATE: 05/19/20 | REV. NO. 04  
RCV325 SSR PANEL CLIP ATTACHMENT BLANKET INSULATION ON PURLINS



REV. DATE: 05/19/20 | REV. NO. 04  
RCV326 SSR PANEL CLIP ATTACHMENT THERMAL BLOCK INSULATION ON PURLINS



REV. DATE: 05/21/20 | REV. NO. 05  
RCV353 SSR FIXED PANEL CLIP BLANKET, T-BLOCK, S-BLOCK, R-BOARD, & BRIDGE

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REV	DATE	BY	DESCRIPTION

D	VP Buildings	
	3200 Players Club Circle Memphis TN 38125	
BUILDER	Lemartec Corporation	
CUSTOMER	Duke Energy	
LOCATION	Dunn, North Carolina	
PROJECT	Duke Energy Dunn Operations Center - Operations	
BUILDERS PO#	23068	Ops
NTS	5/14/2024 SEDSheet 13:48:58	

**COVERING & TRIM SED'S (c)**

FILENAME: hip Duke Energy - Ops

SEAL 047190  
ALAN M. JUNGNTSCH  
ENGINEER  
NORTH CAROLINA PROFESSIONAL SEAL

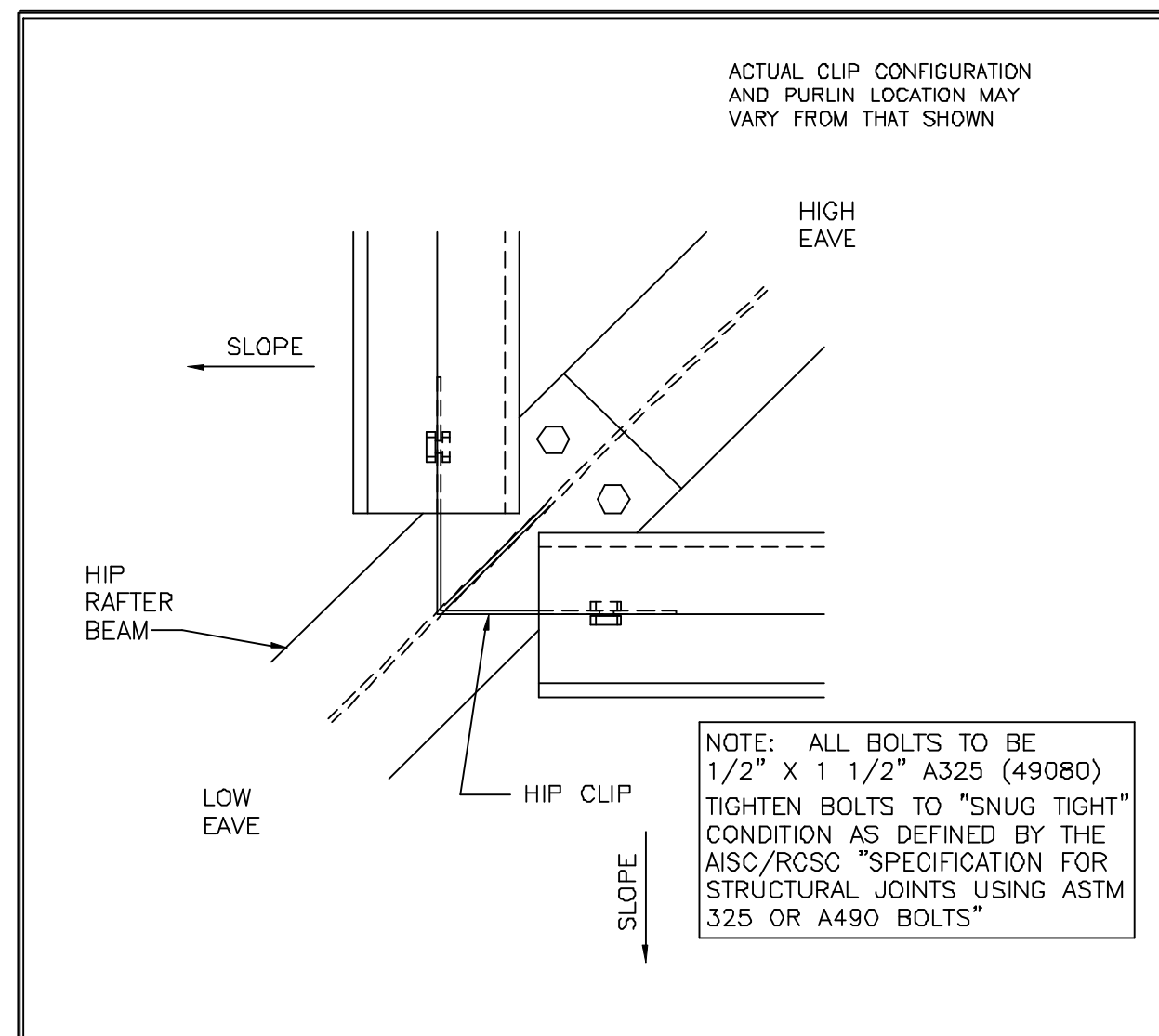
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BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

FOR CONSTRUCTION

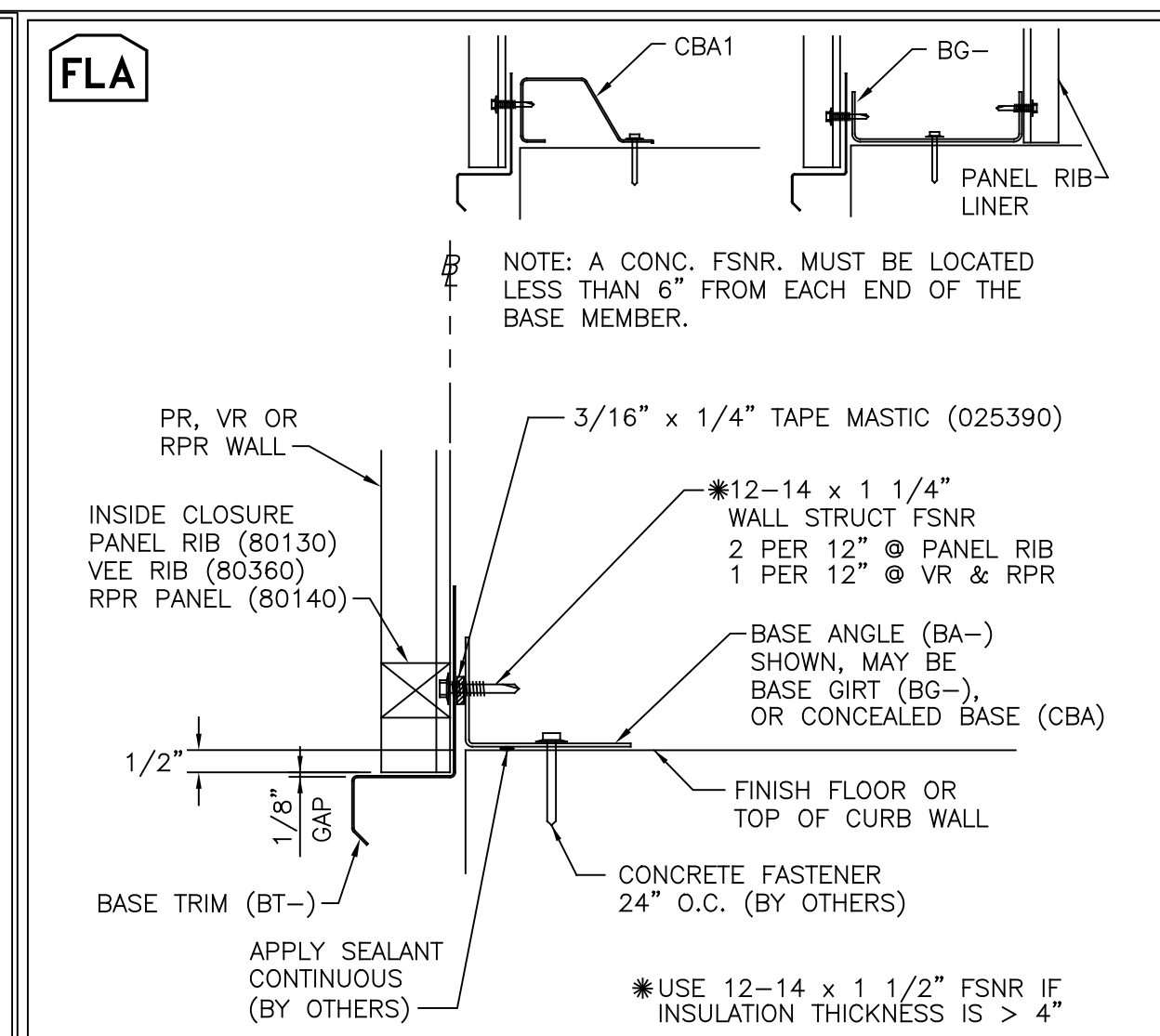
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VP BUILDINGS  
VARCO PRUDEN  
A BlueScope Steel Company  
VPC VERSION: 24.1.1

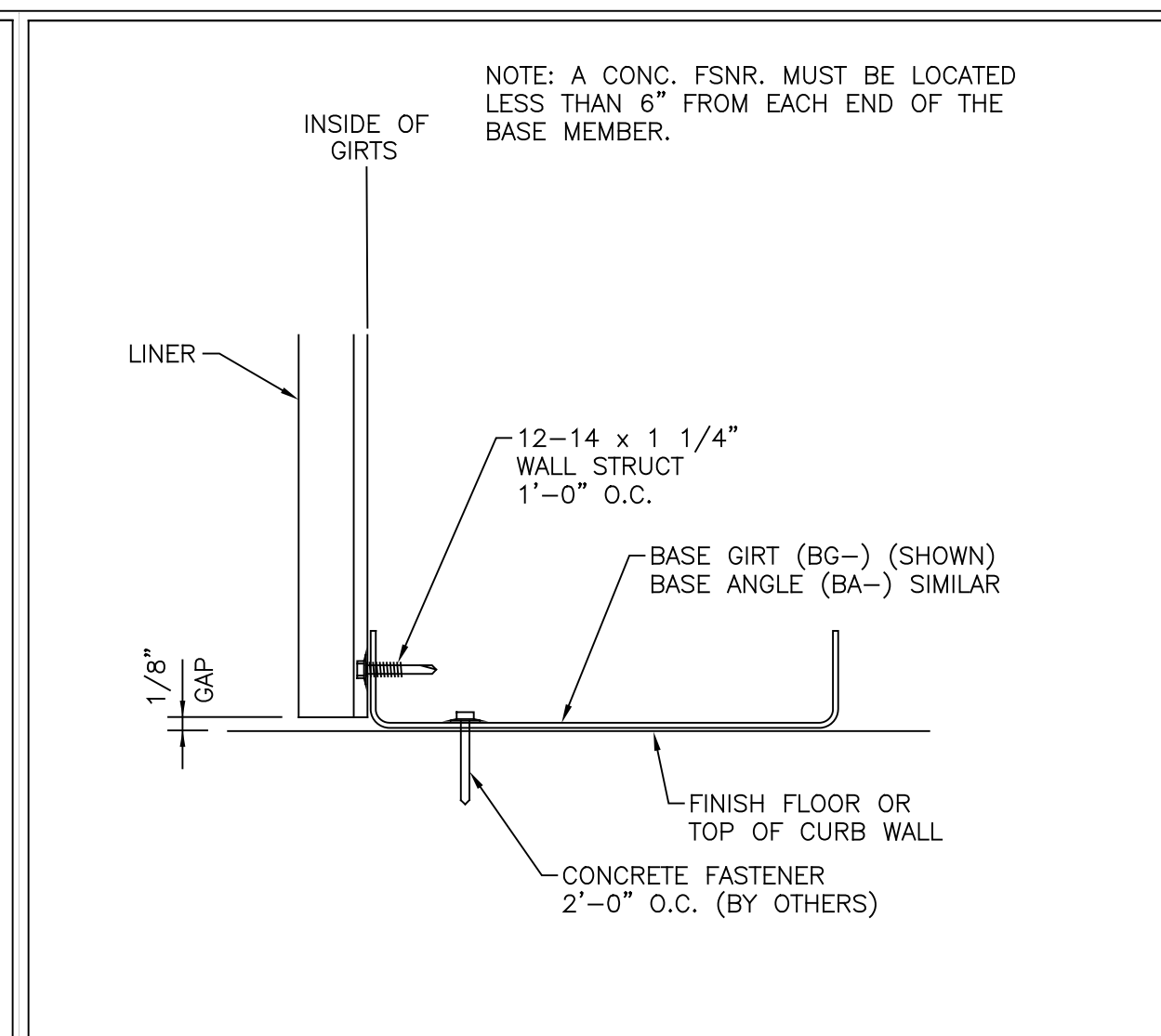
a division of BlueScope Buildings North America, Inc.



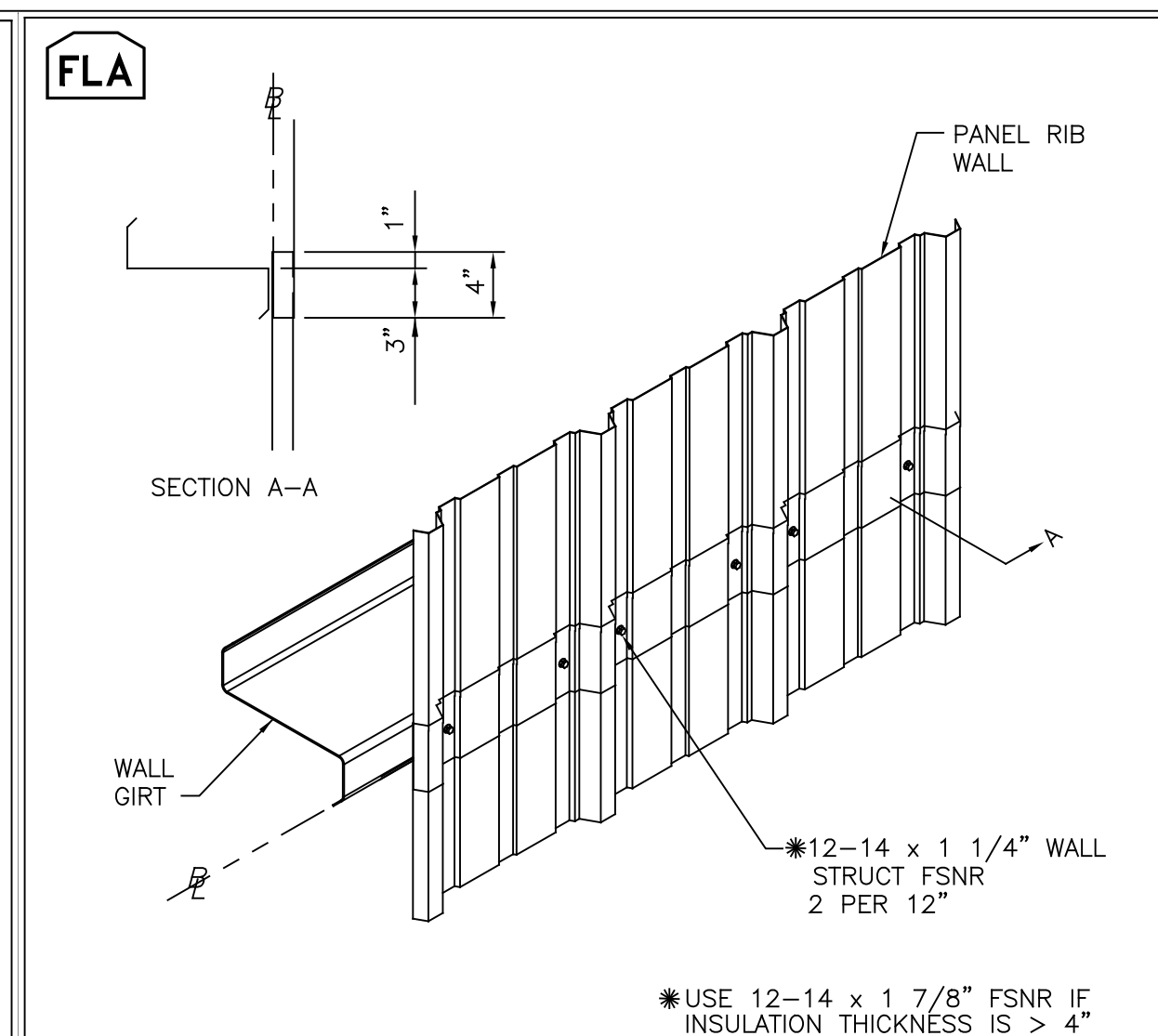
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RS70A4 | HIP FRAMING PURLIN CLIP ATTACHMENT



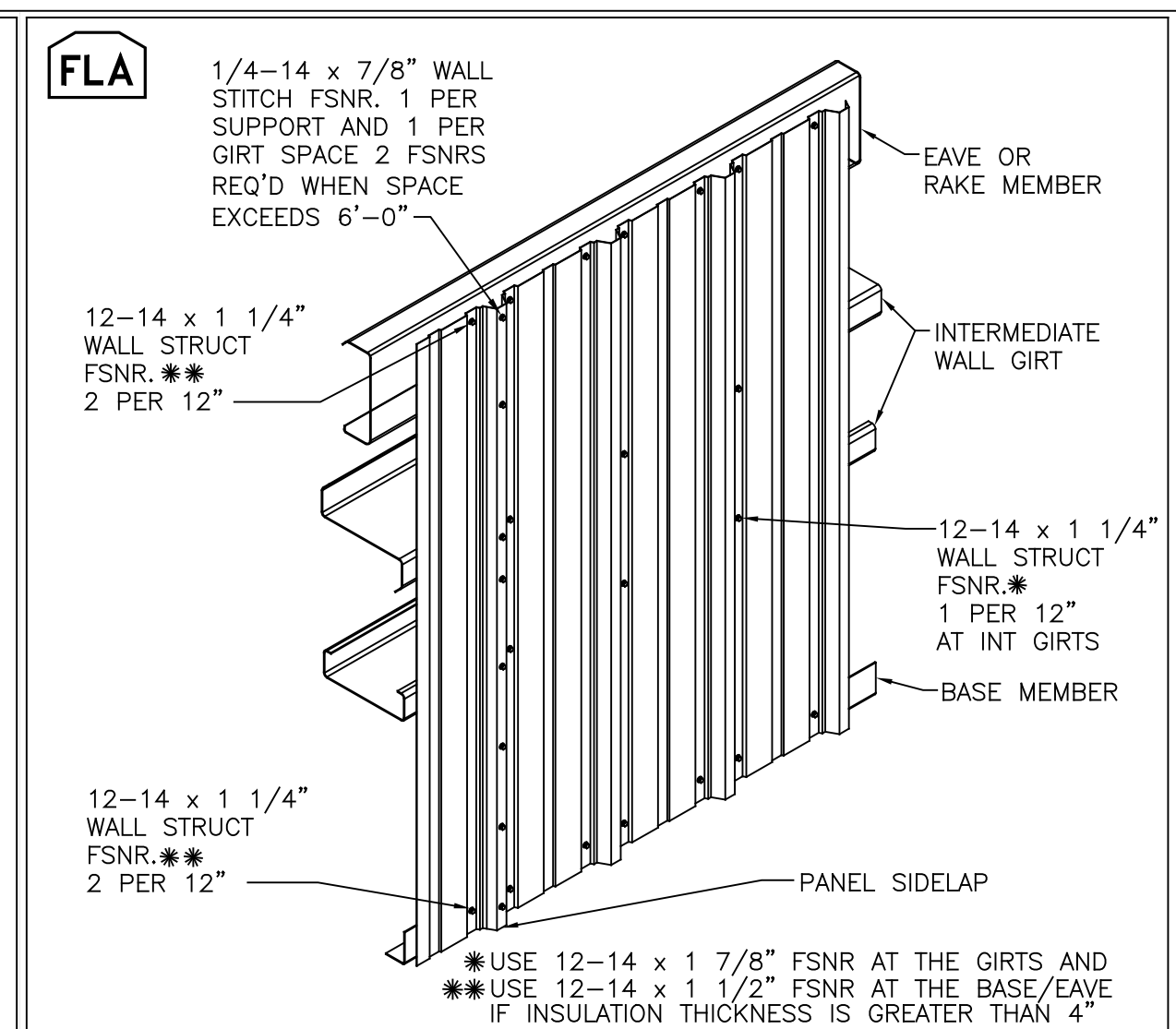
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WC01AB | BASE OF WALL ATTACHMENT PR, VR OR RPR W/ BASE TRIM



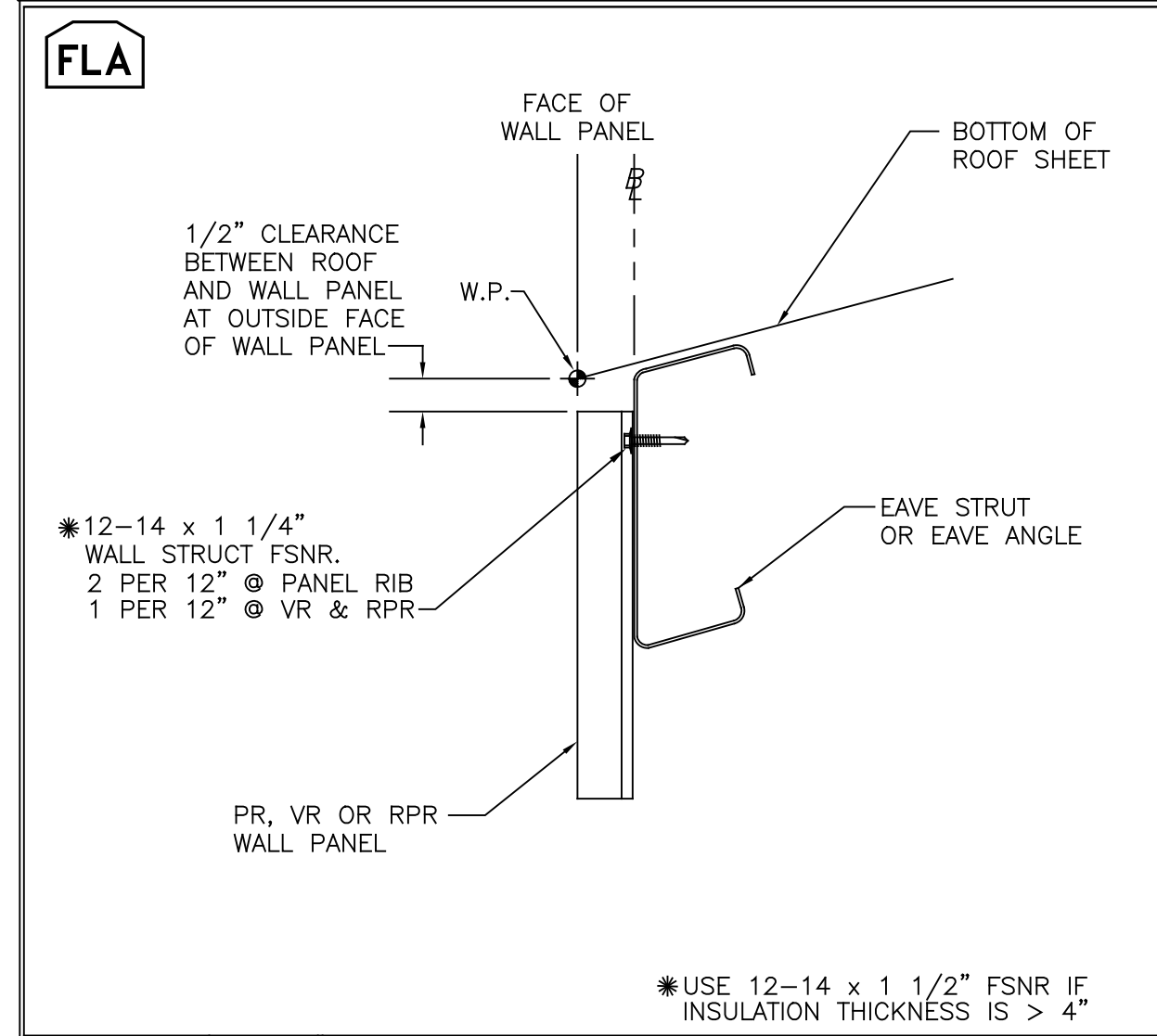
REV. DATE: 01/29/21 | REV. NO. 03  
WC01JD | BASE OF LINER ATTACHMENT LINER



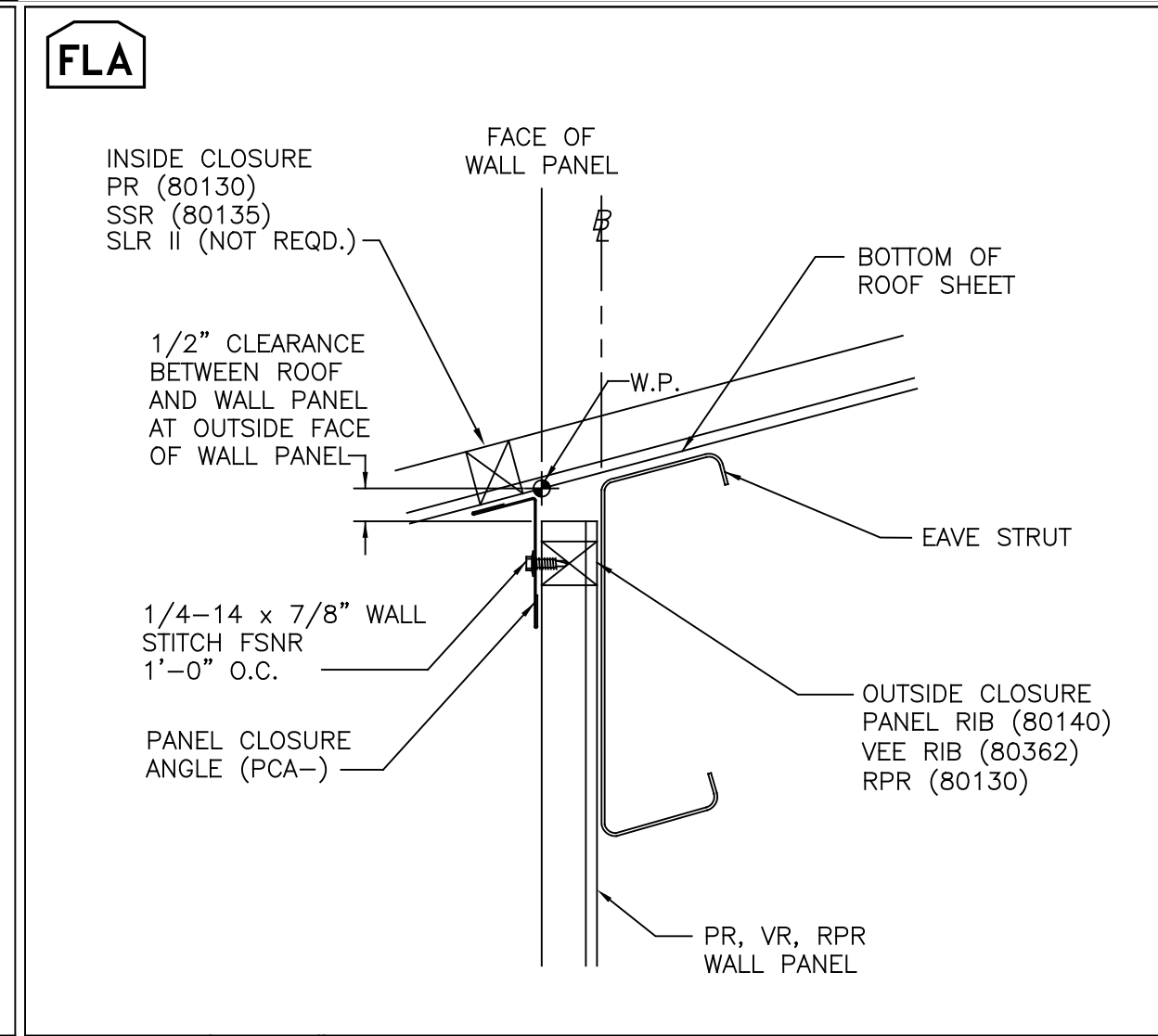
REV. DATE: 06/26/19 | REV. NO. 02  
WC02A1 | WALL PANEL END LAP PANEL RIB WALL



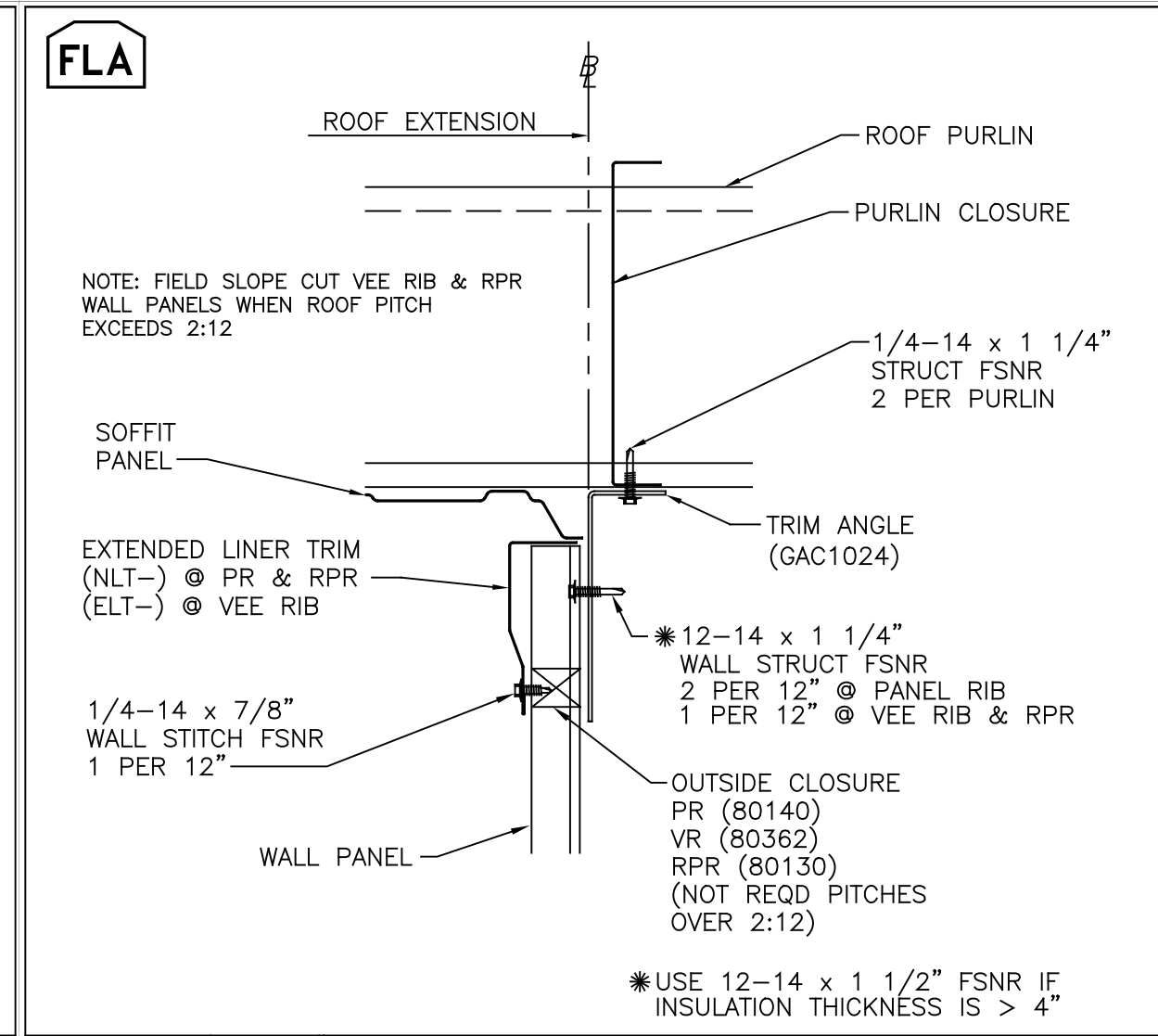
REV. DATE: 06/26/19 | REV. NO. 04  
WC04G1 | PANEL RIB WALL FASTENER PATTERNS



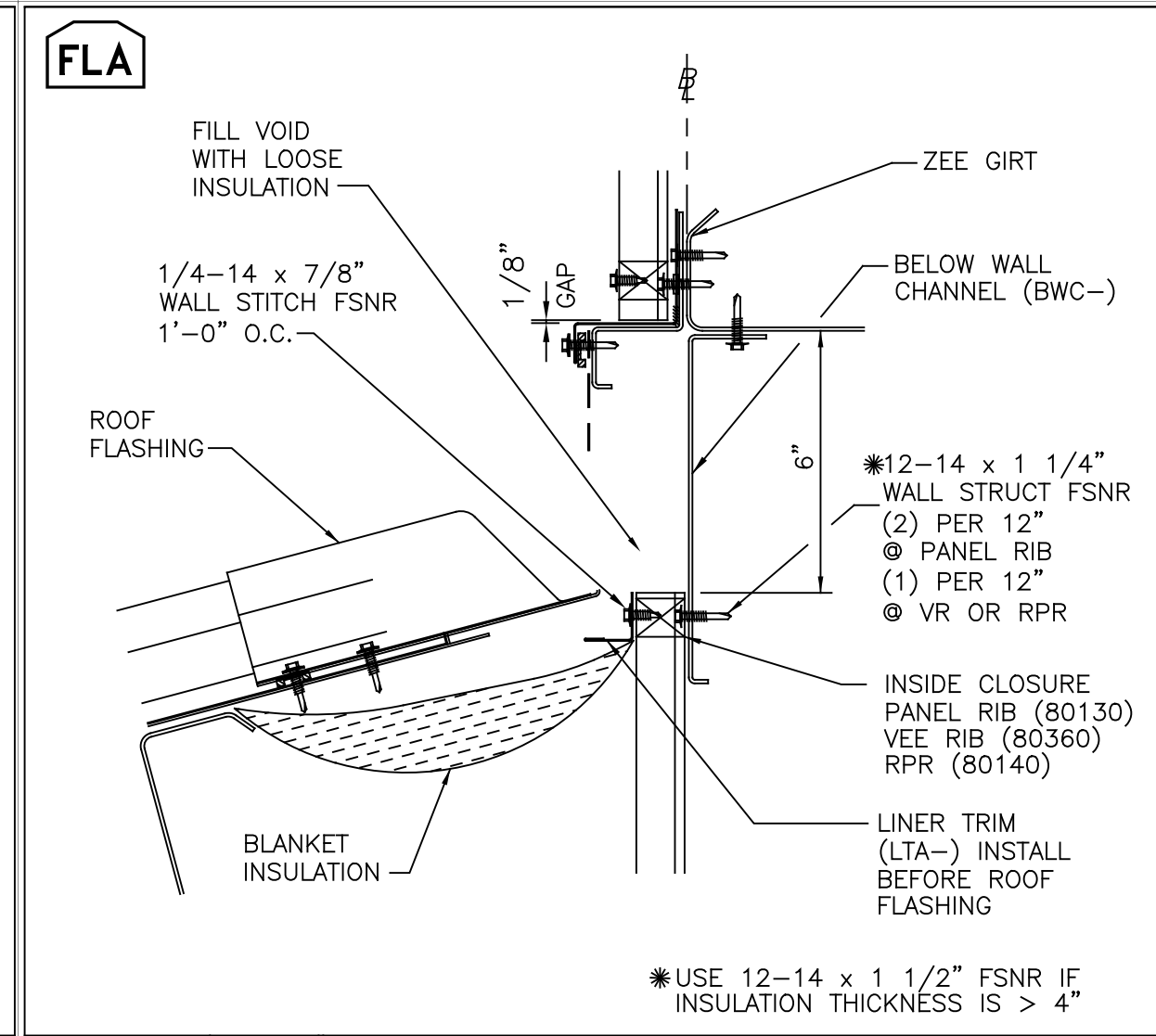
REV. DATE: 06/26/19 | REV. NO. 04  
WC11F1 | PR, VR & RPR WALL AT EAVE STANDARD EAVE MEMBER



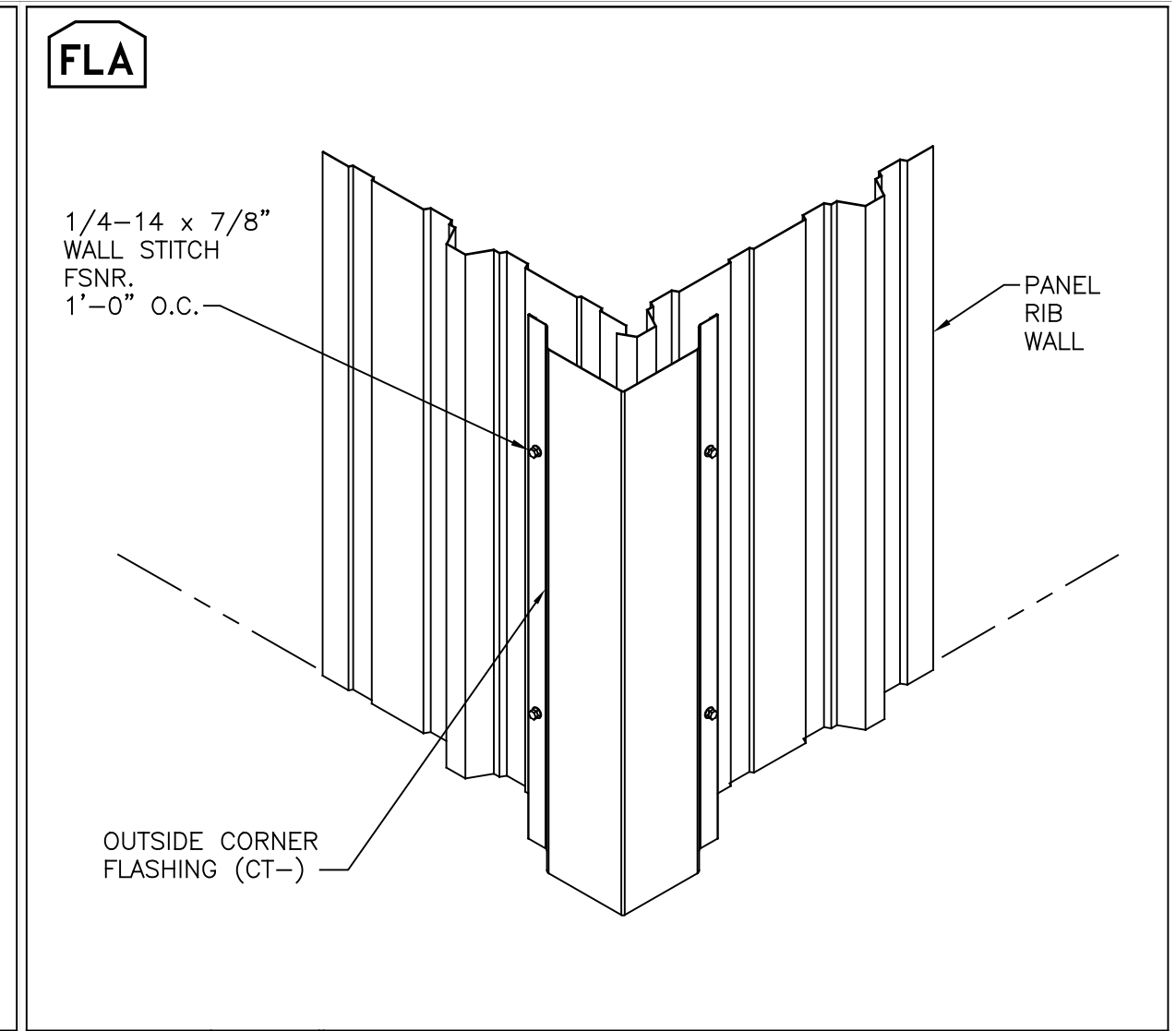
REV. DATE: 06/26/19 | REV. NO. 06  
WC11F4 | WALL AT CANOPY ROOF ALL WALL - ALL ROOFS



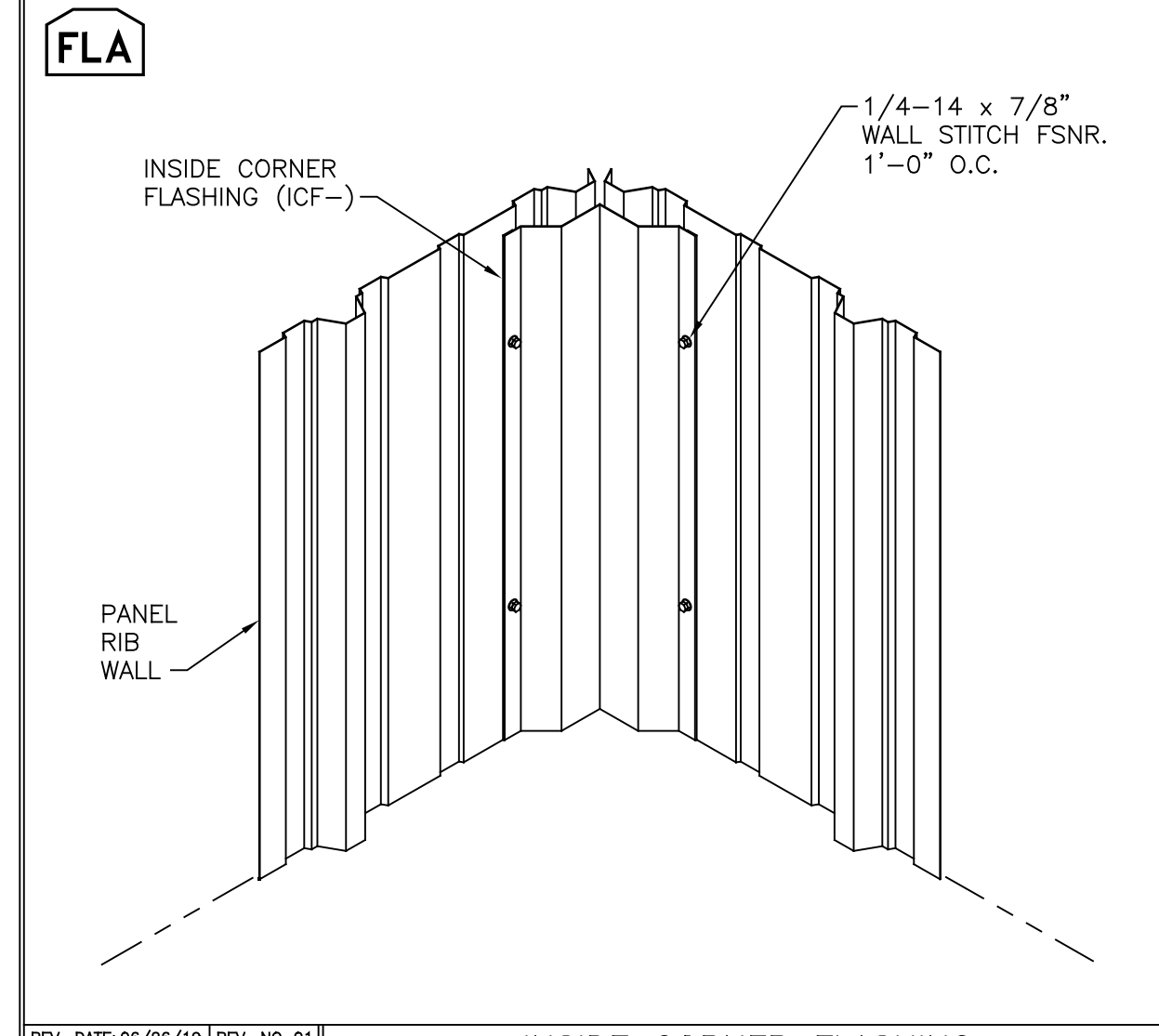
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WC12A1 | WALL PANEL AT RAKE EXTENSION PR, VR & RPR WALL WITH SOFFIT (ALL ROOFS)



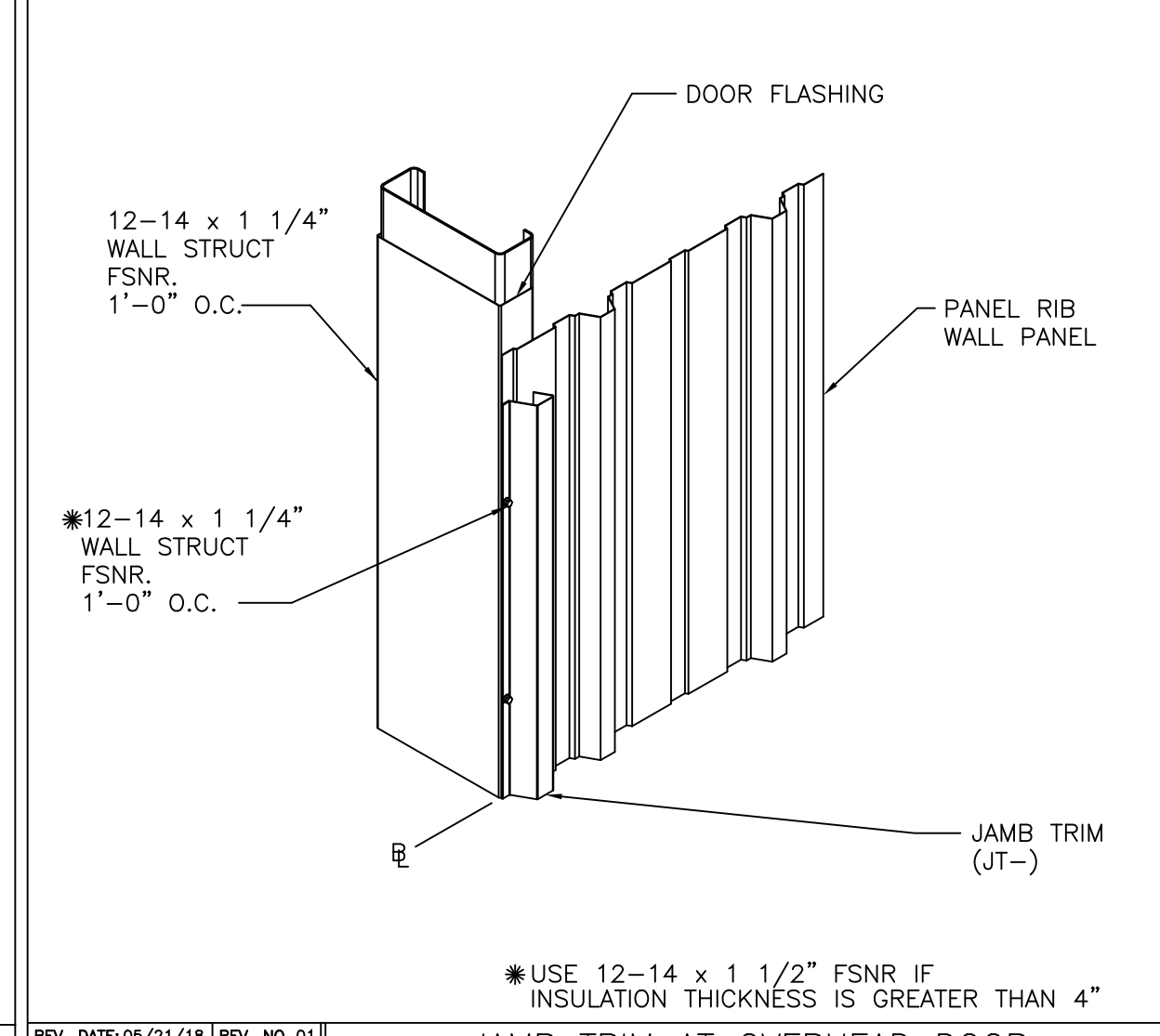
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WC14A1 | WALL CONN. BELOW WALL TO ROOF PR, VR OR RPR WALL WITH SSR ROOF



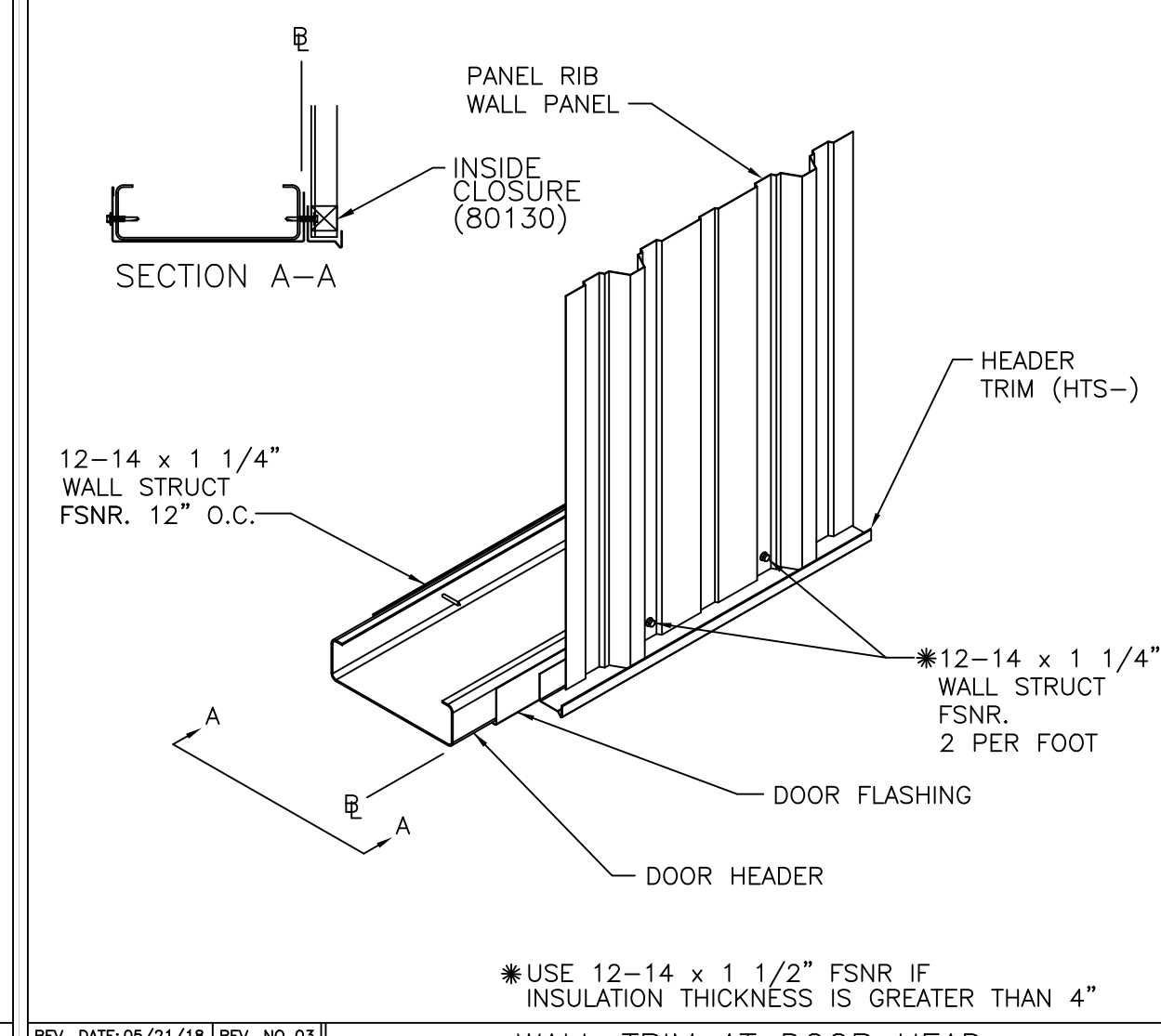
REV. DATE: 06/26/19 | REV. NO. 01  
WC20A1 | OUTSIDE CORNER TRIM PANEL RIB WALL



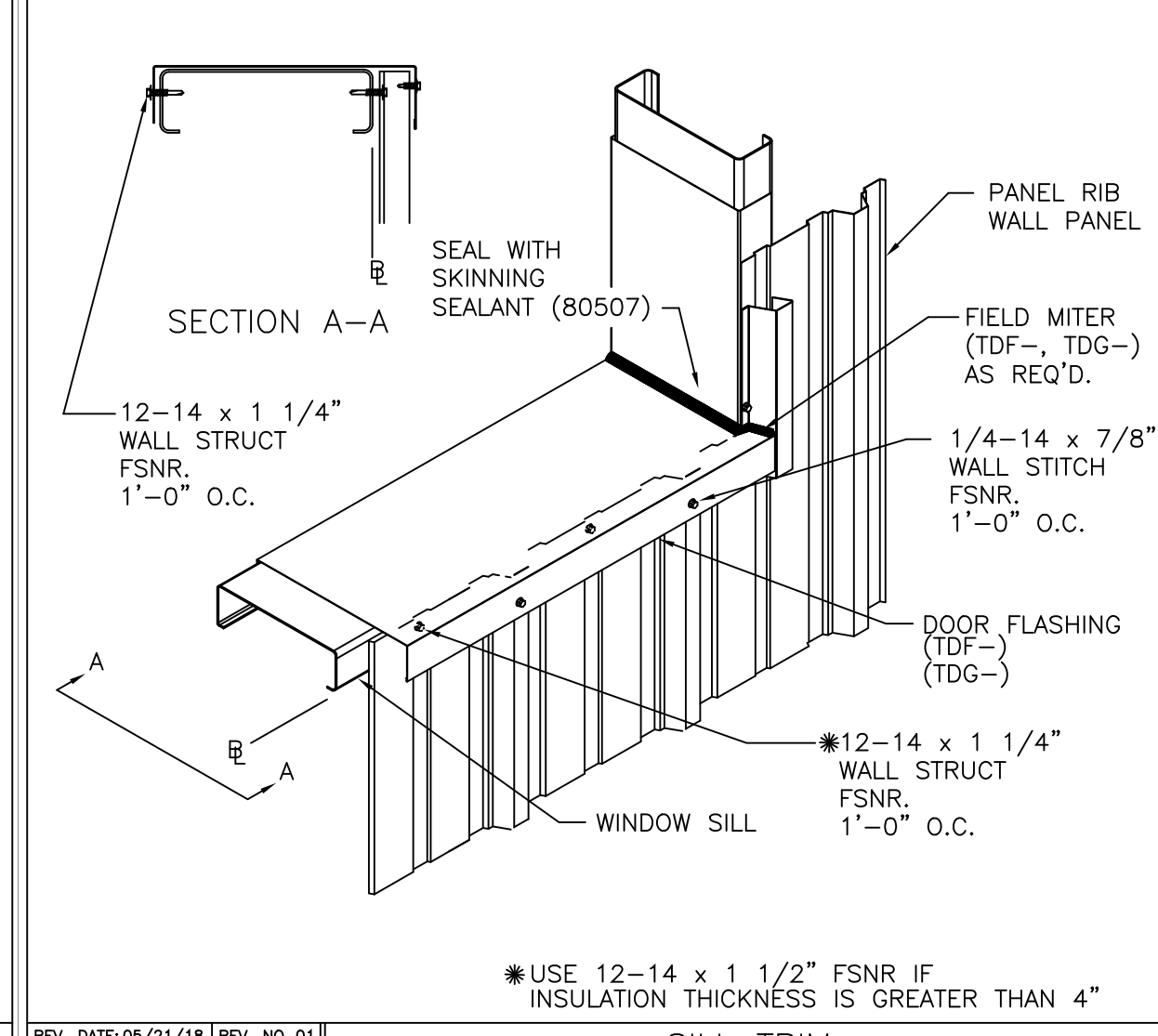
REV. DATE: 06/26/19 | REV. NO. 01  
WC21A1 | INSIDE CORNER FLASHING PANEL RIB WALL



REV. DATE: 05/21/18 | REV. NO. 01  
WC24A1 | JAMB TRIM AT OVERHEAD DOOR PANEL RIB WALL



REV. DATE: 05/21/18 | REV. NO. 03  
WC24A2 | WALL TRIM AT DOOR HEAD OVERHEAD DOOR OPENING



REV. DATE: 05/21/18 | REV. NO. 01  
WC24Q4 | SILL TRIM FRAMED OPENING (PANEL RIB)

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SEAL 047190  
BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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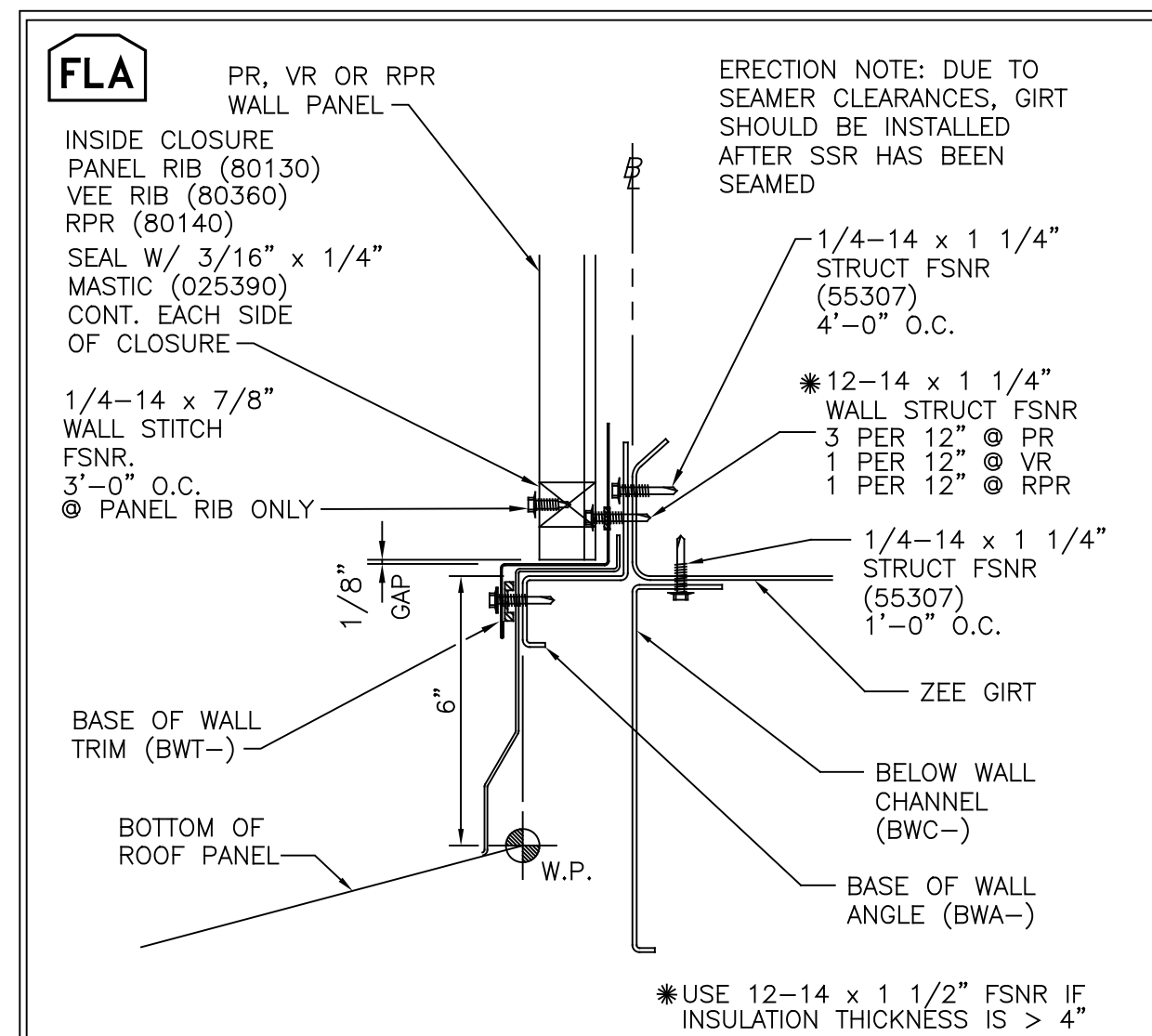
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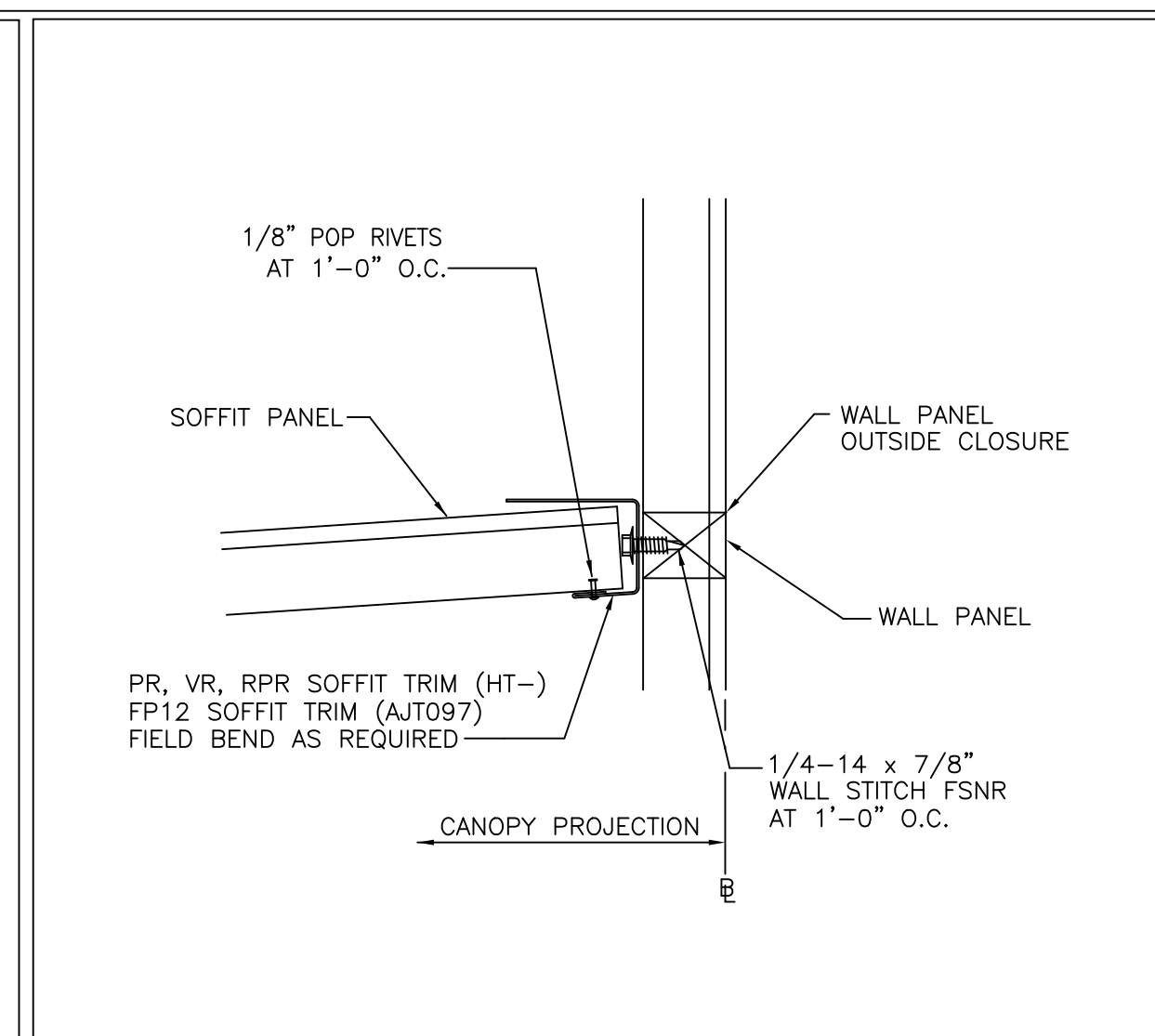
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VP Buildings			
3200 Players Club Circle Memphis TN 38125			
REV	DATE	BY	DESCRIPTION

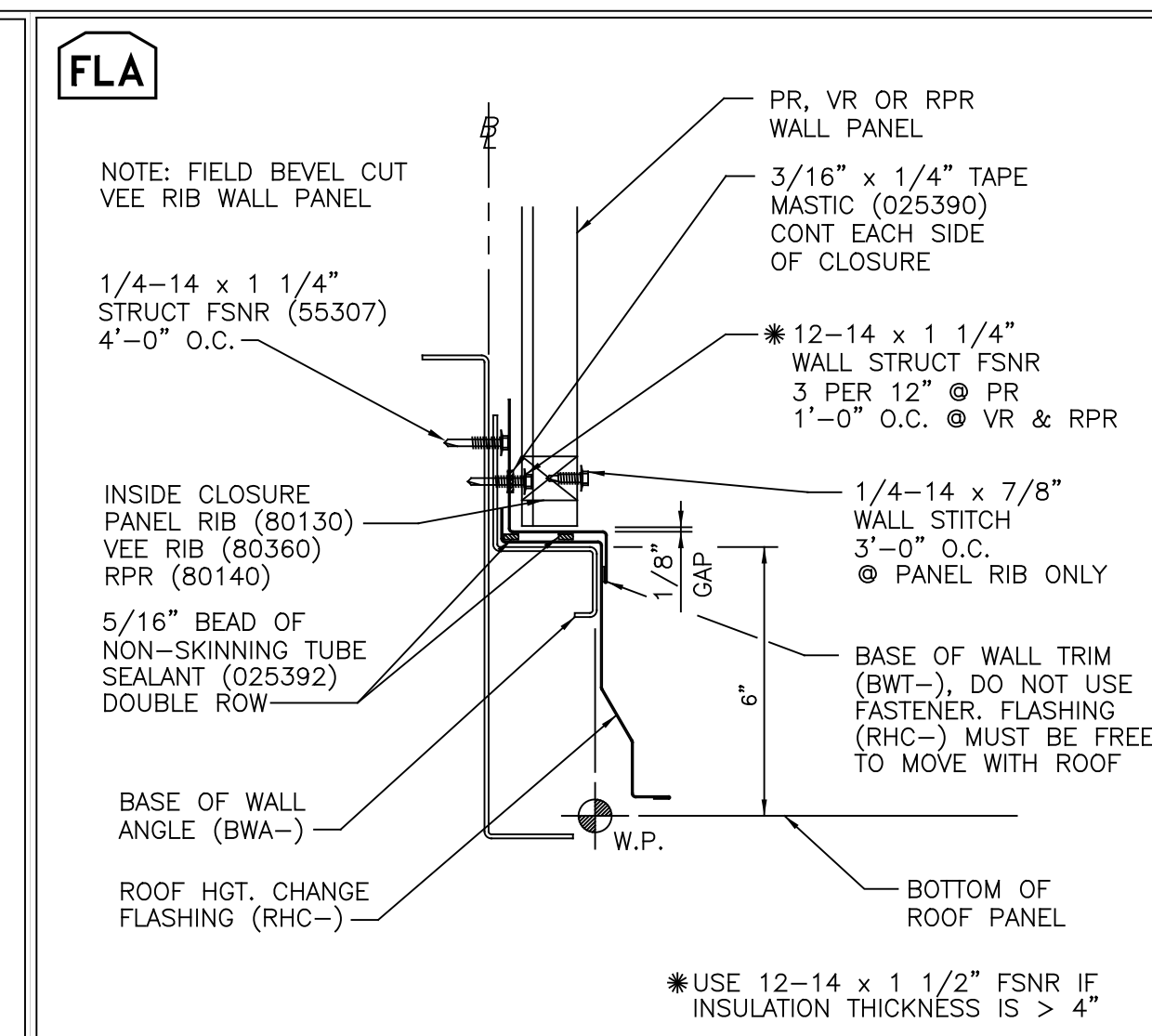
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CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - Operations
BUILDERS PO#	23068 - Ops
VPC VERSION:	24.1.1
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JOBNO	23-016001-02
DATE	5/1/2024
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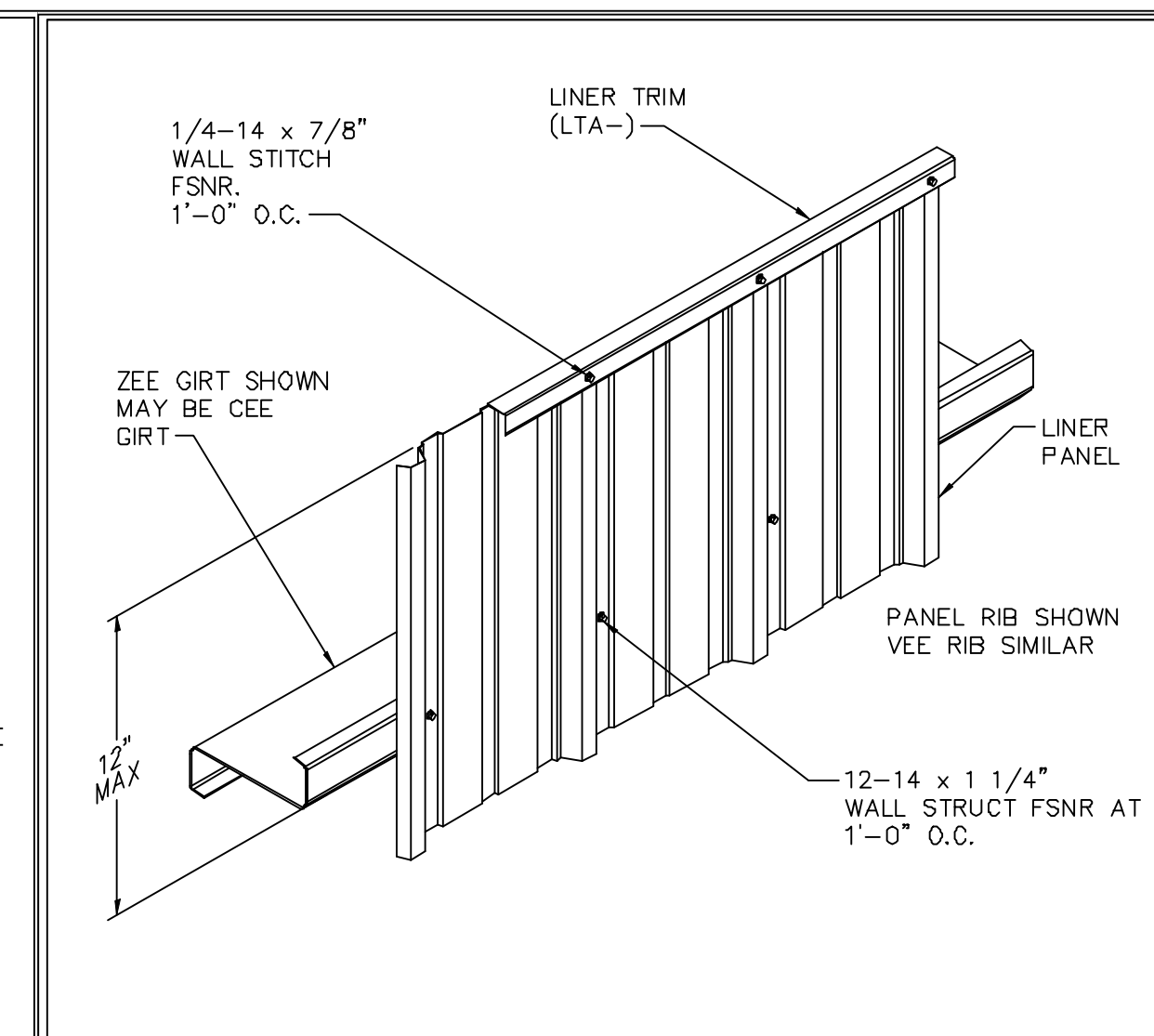
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 WALL BASE AT SSR WALL TO RF. METAL PR, VR OR RPR WALL (NON-ICE DAMMING) FLASHING  
 WC50A1



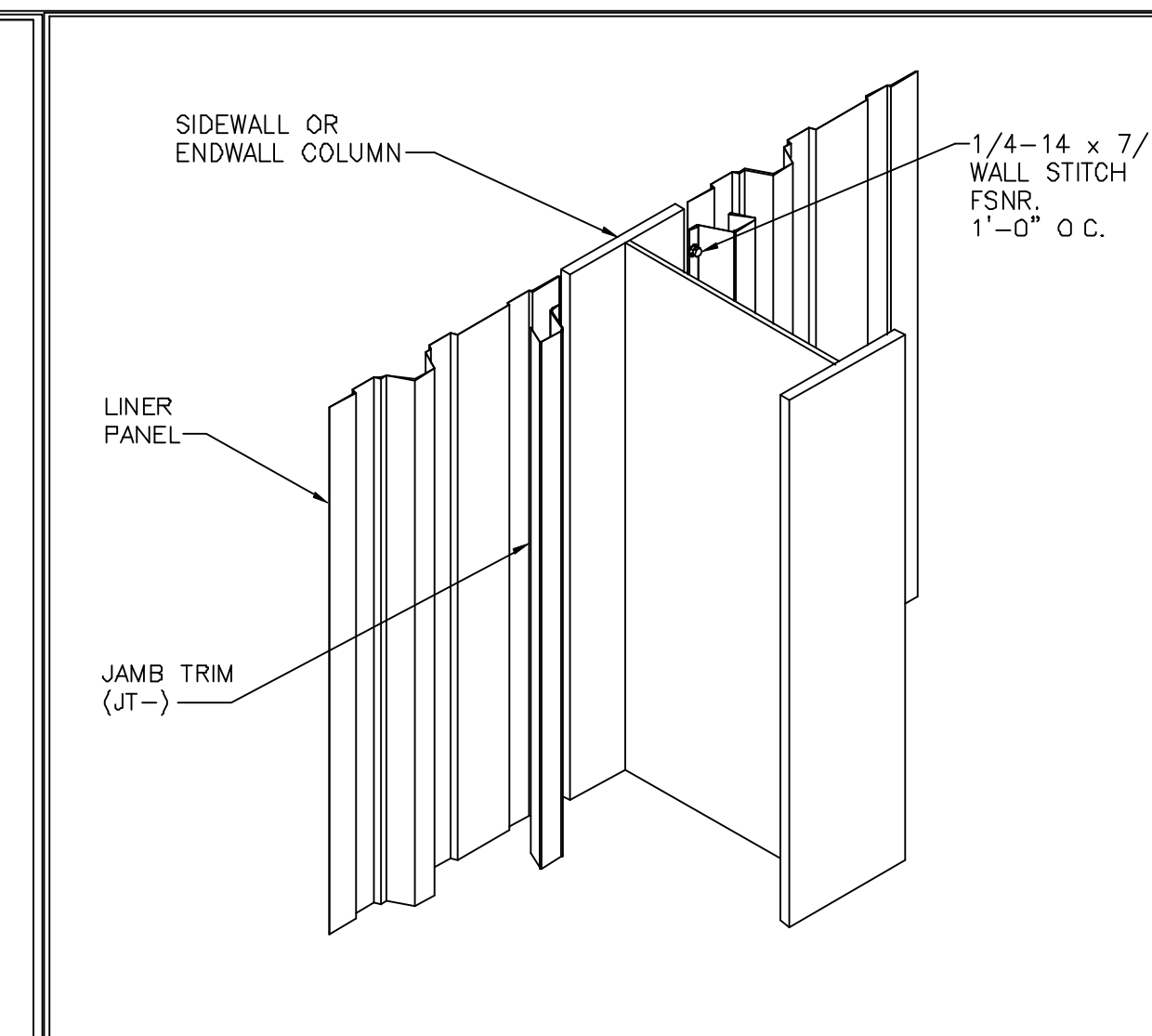
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 SOFFIT TRIM AT CANOPY PR, VR, & RPR WALL PANEL  
 WC51CA



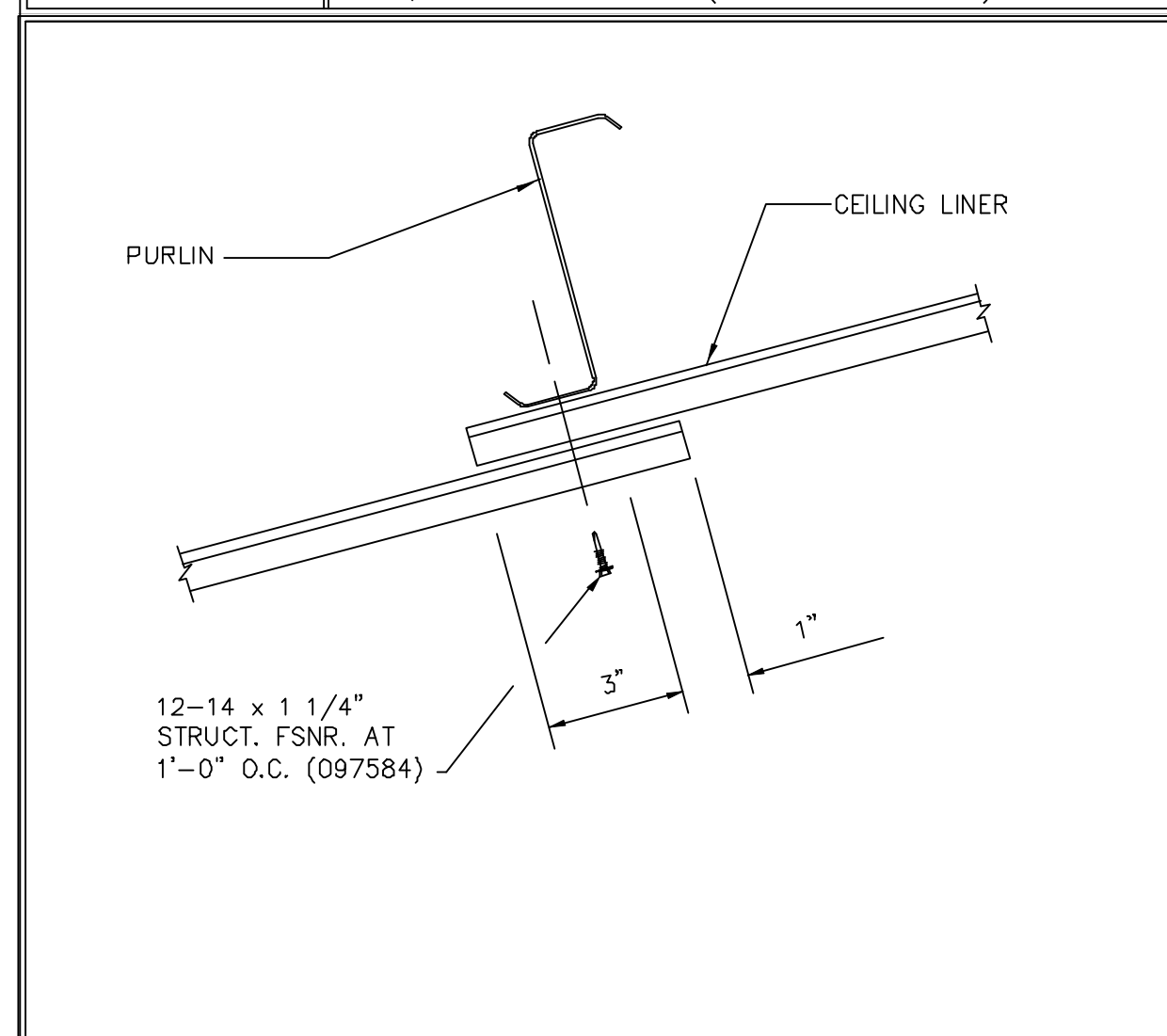
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 BASE OF WALL AT RF HT CHANGE PR, VR OR RPR WALL (NON-ICE DAMMING) METAL FLASHING  
 WC52A1



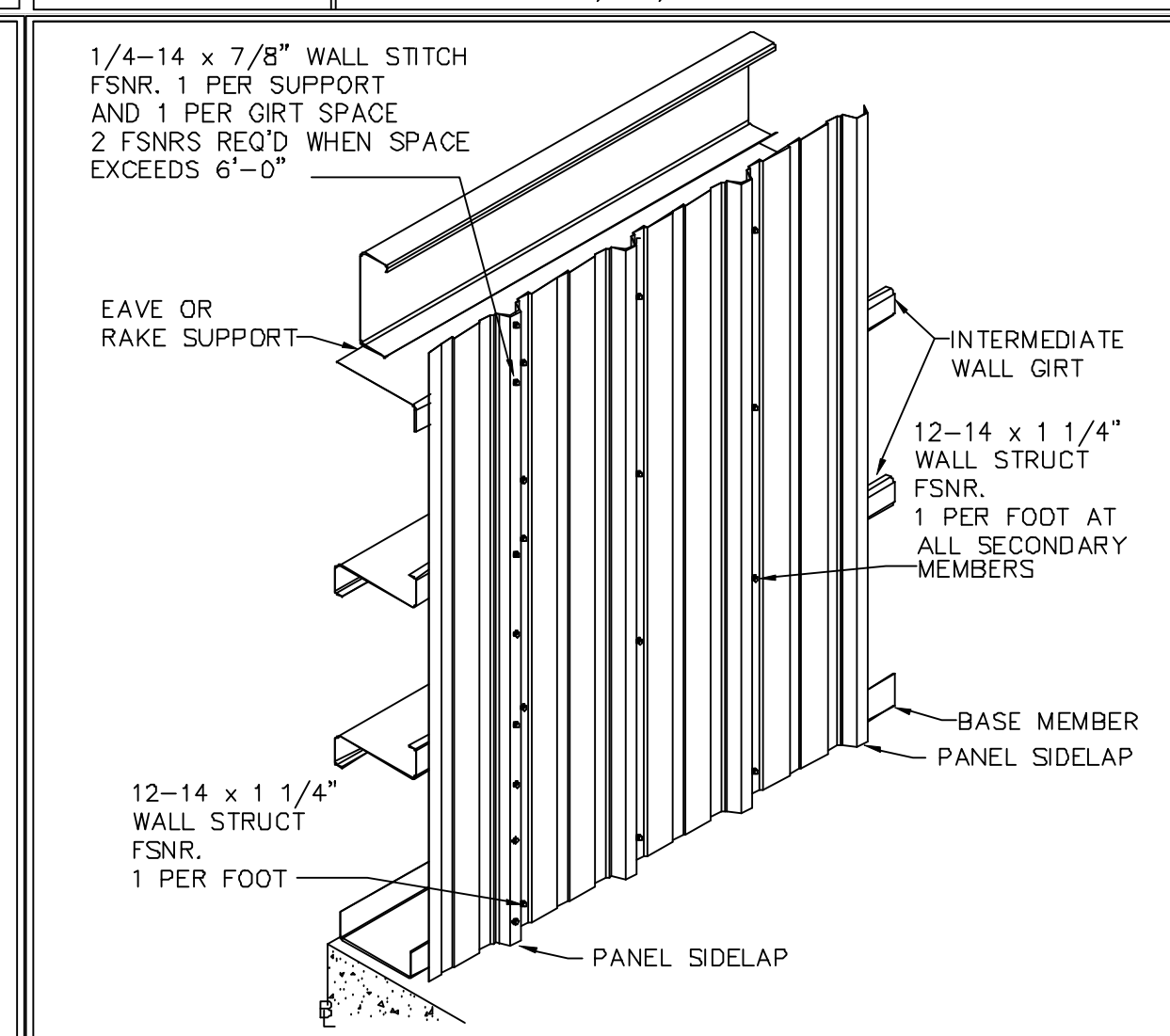
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 LINER PANEL ATTACHMENT PARTIAL HEIGHT LINER  
 WC61A7



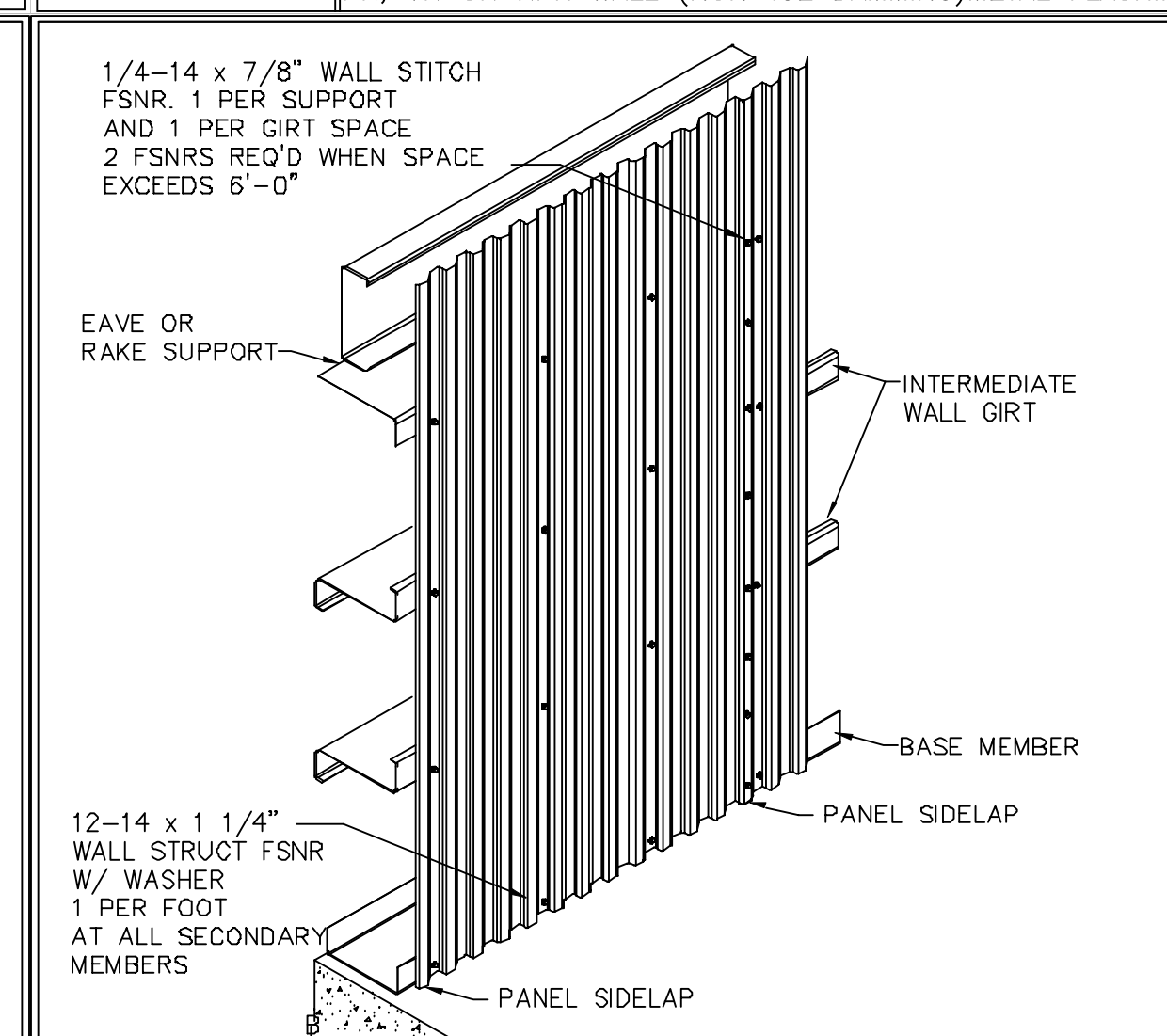
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 LINER PANEL ATTACHMENT TRIM AT COLUMN; OUTSET WALL  
 WC61A9



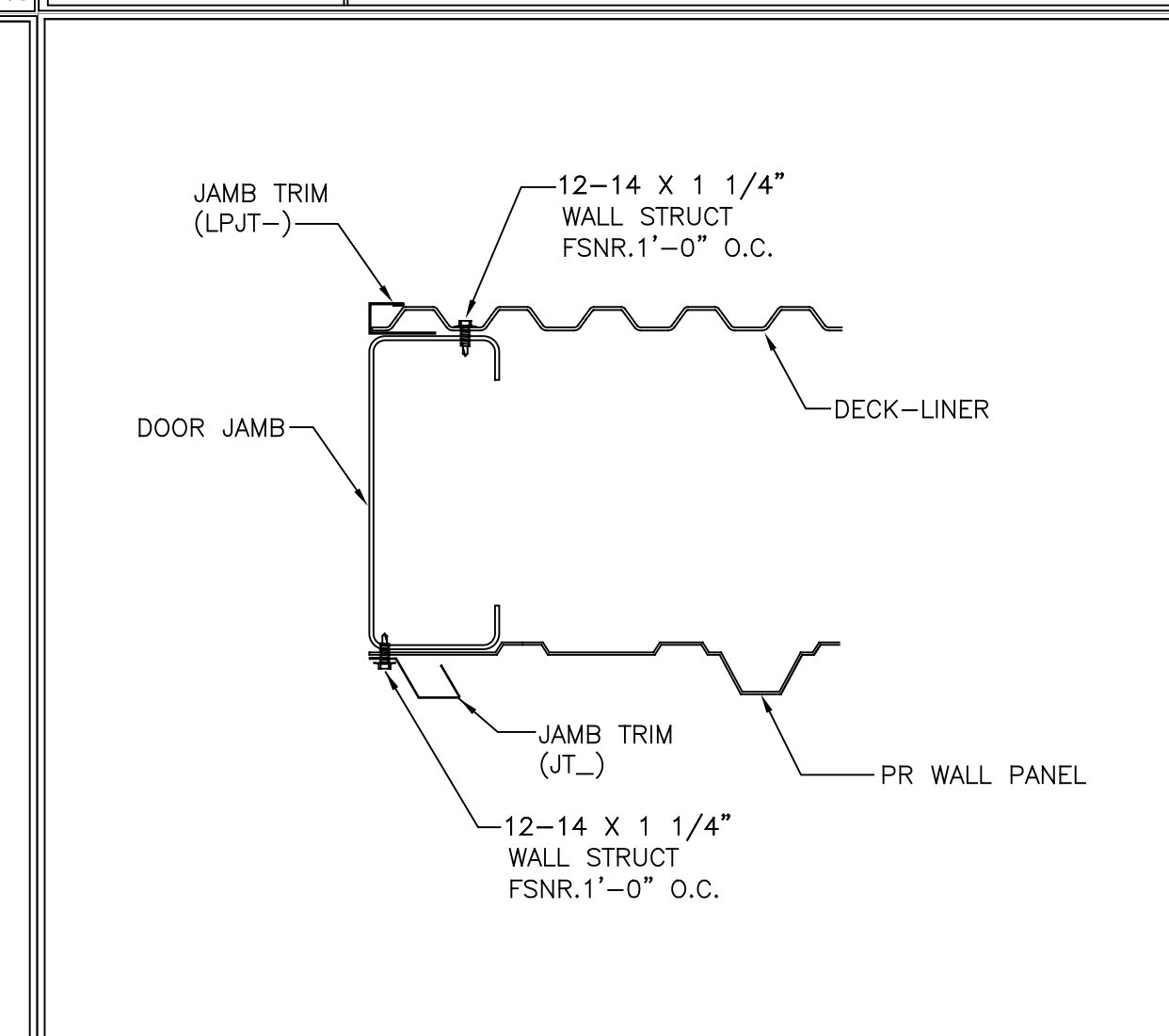
REV. DATE 04/09/15 | REV. NO. 02  
 CEILING LINER PANEL LAP  
 WC61ED



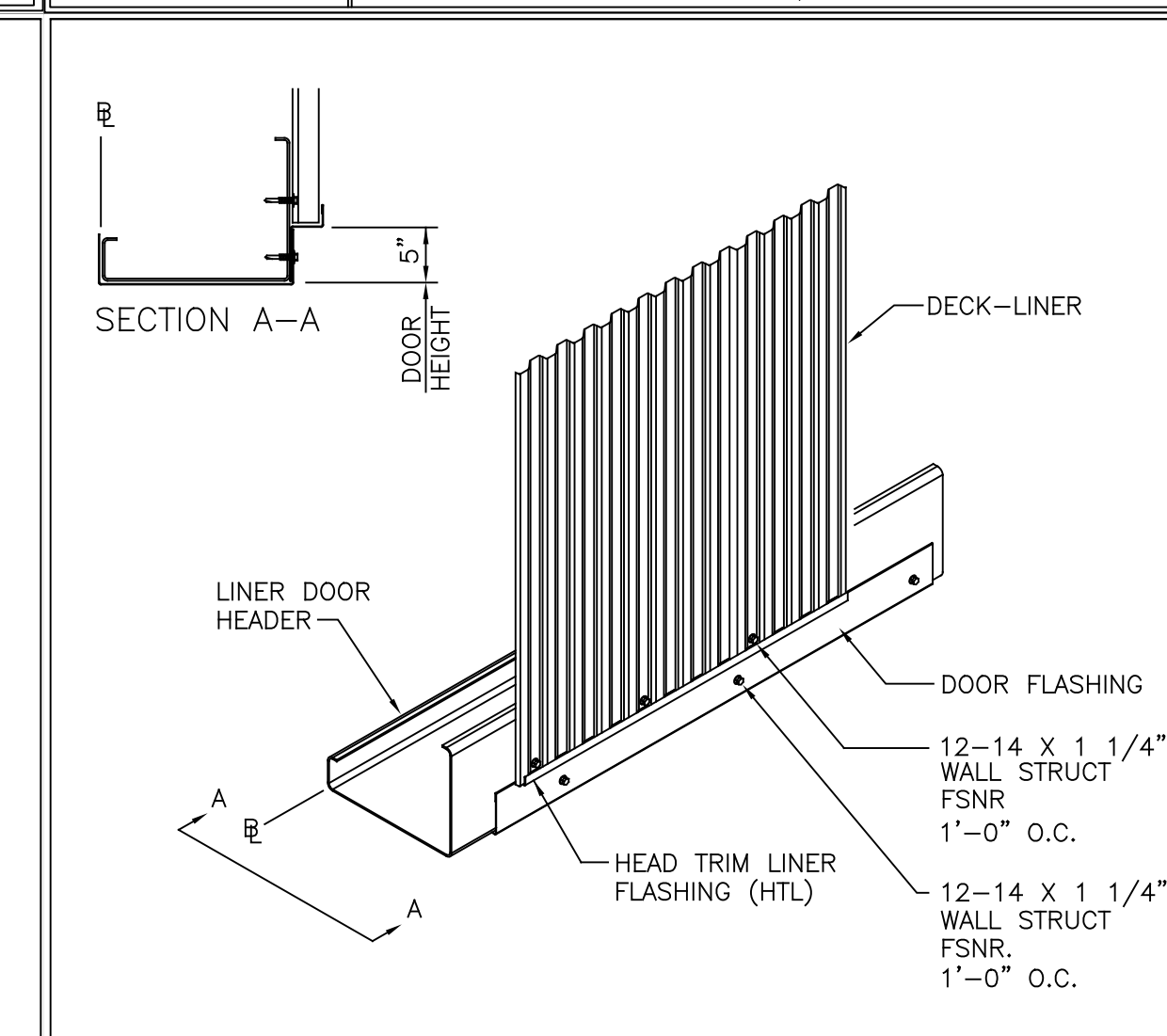
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 PANEL RIB LINER FASTENER PATTERNS  
 WCV060



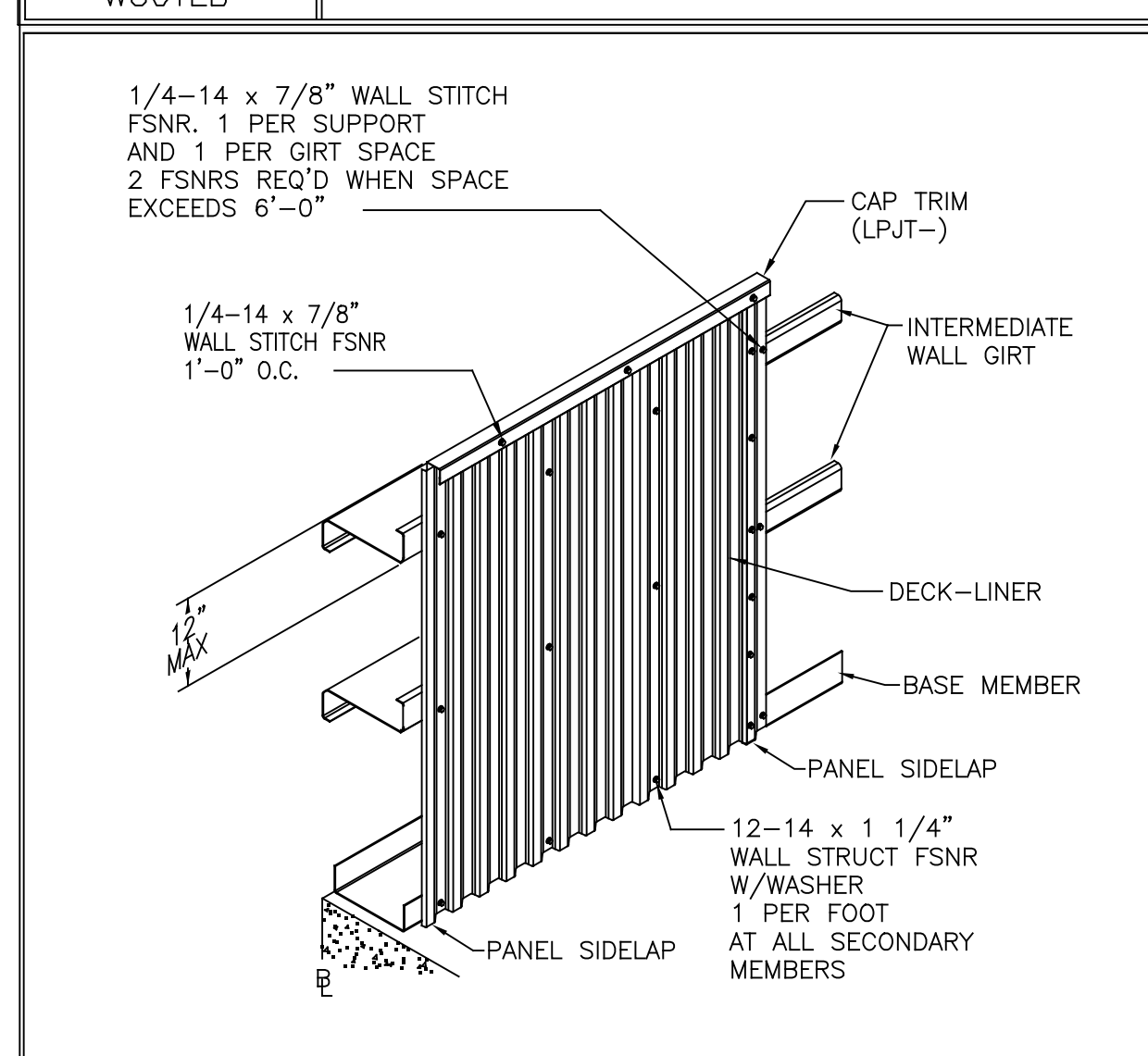
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 DECK-LINER FASTENER PATTERNS  
 WCV062



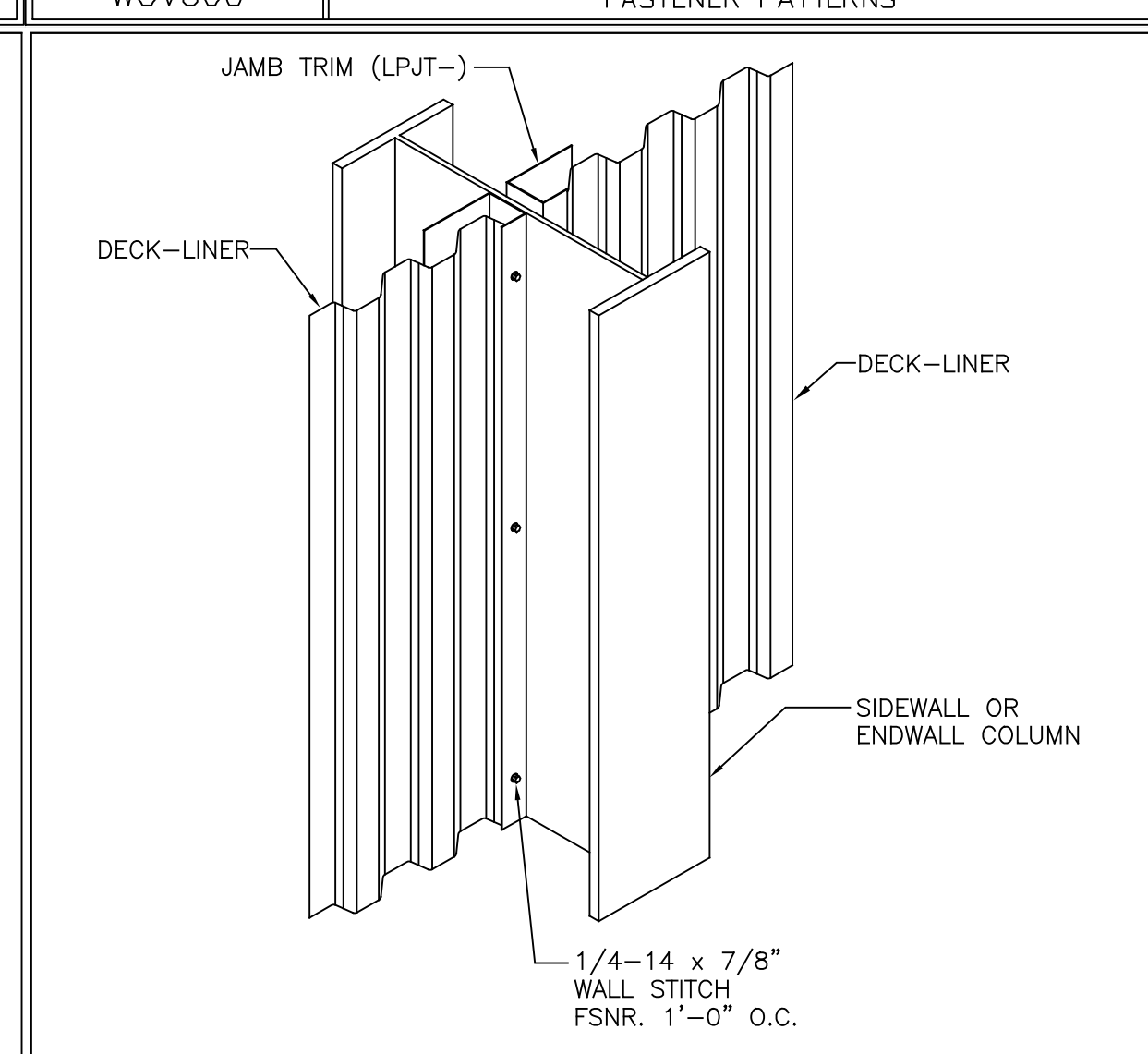
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 WLVO07



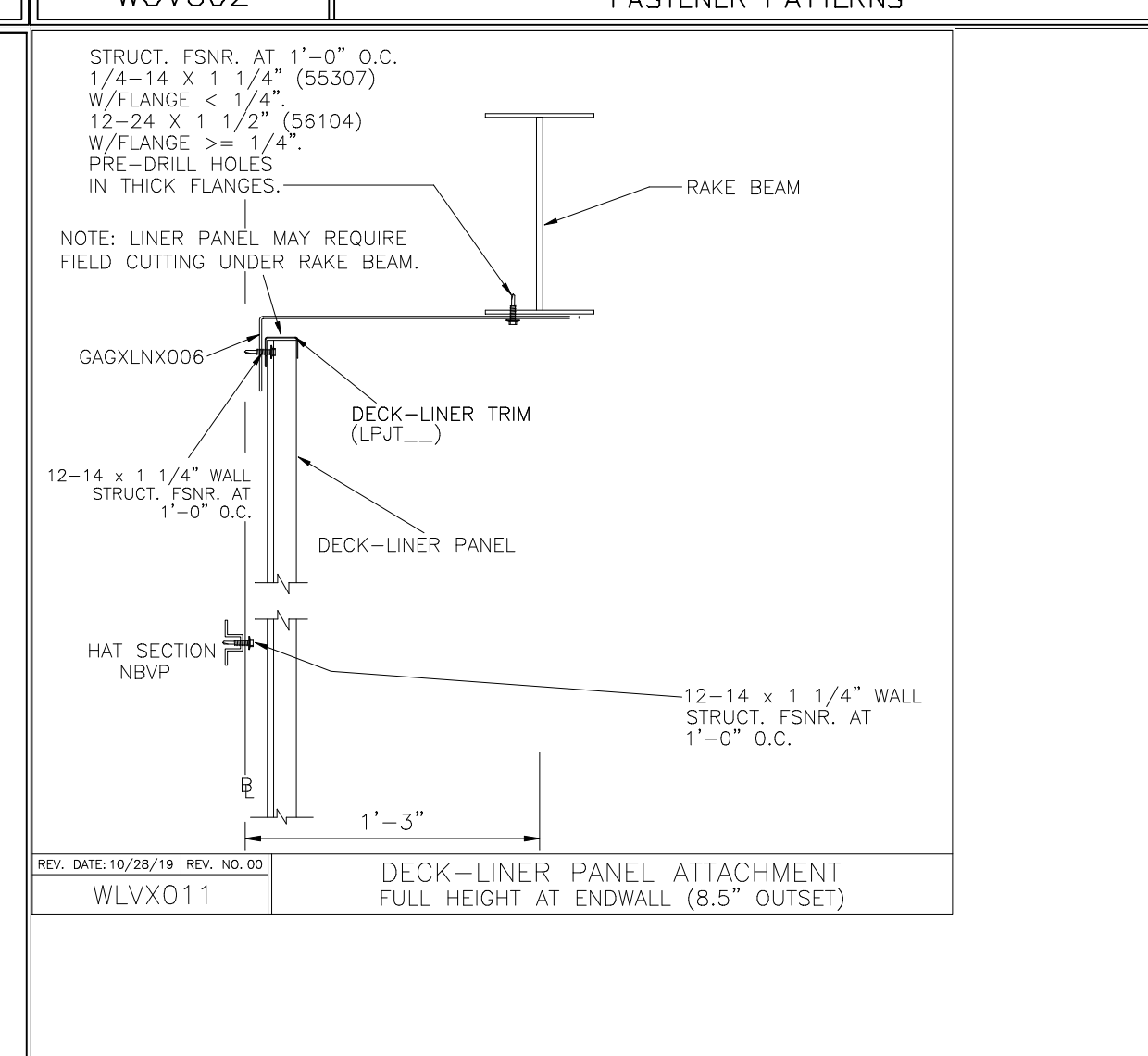
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 DECK-LINER TRIM AT DOOR HEAD OVERHEAD DOOR OPENING  
 WLVO08



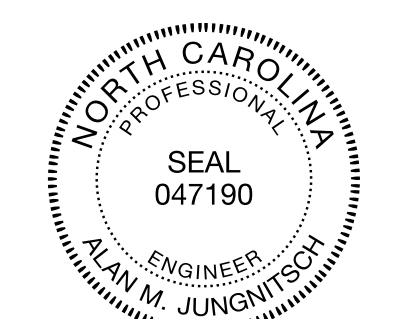
REV. DATE: 10/28/19 | REV. NO. 00  
 DECK-LINER PANEL ATTACHMENT PARTIAL HEIGHT LINER  
 WLVO13



REV. DATE: 10/28/19 | REV. NO. 00  
 DECK-LINER PANEL ATTACHMENT TRIM AT COLUMN; INSET WALL  
 WLVO14



REV. DATE: 10/28/19 | REV. NO. 00  
 DECK-LINER PANEL ATTACHMENT FULL HEIGHT AT ENDWALL (8.5\"/>



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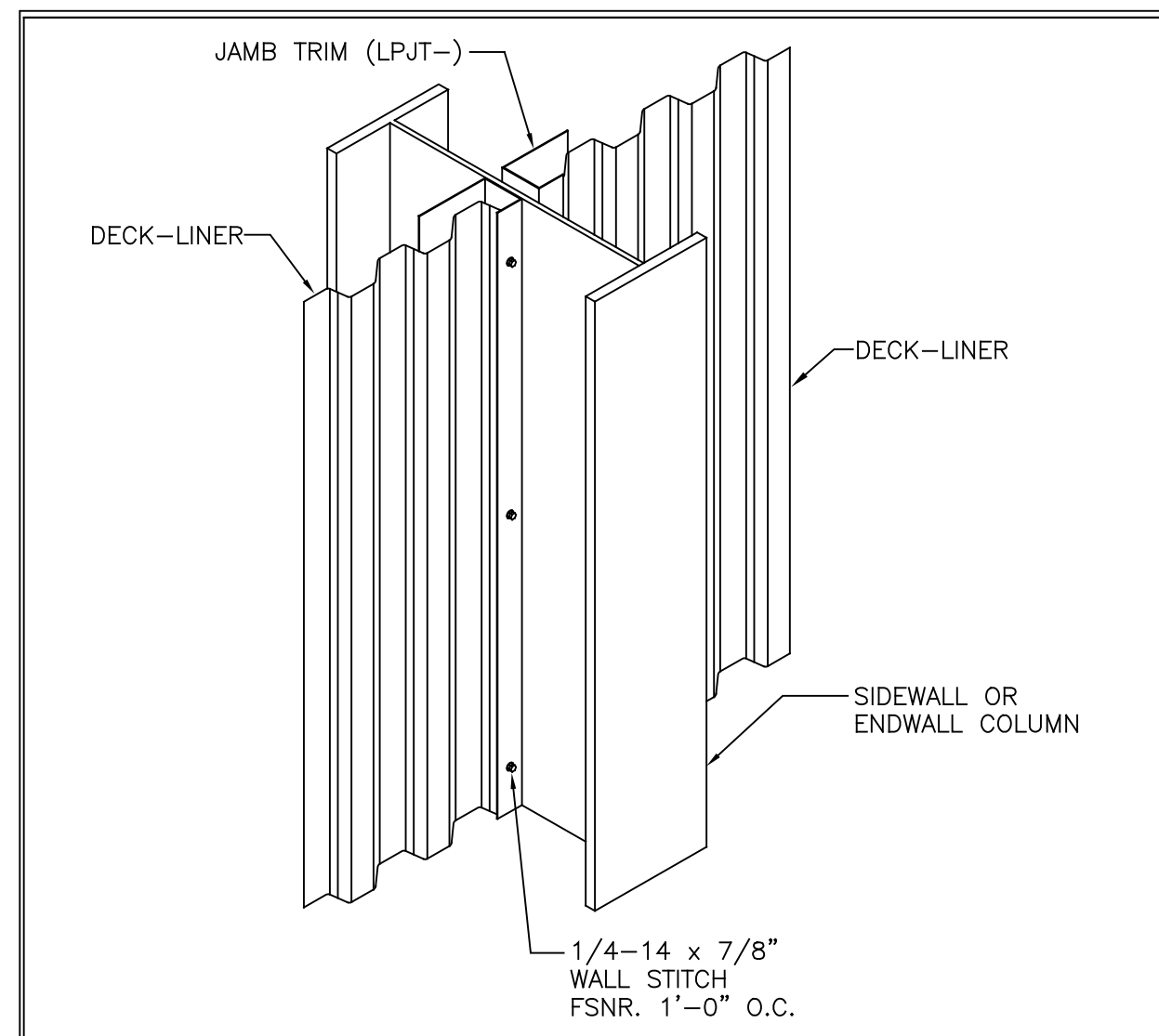
05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

FOR CONSTRUCTION

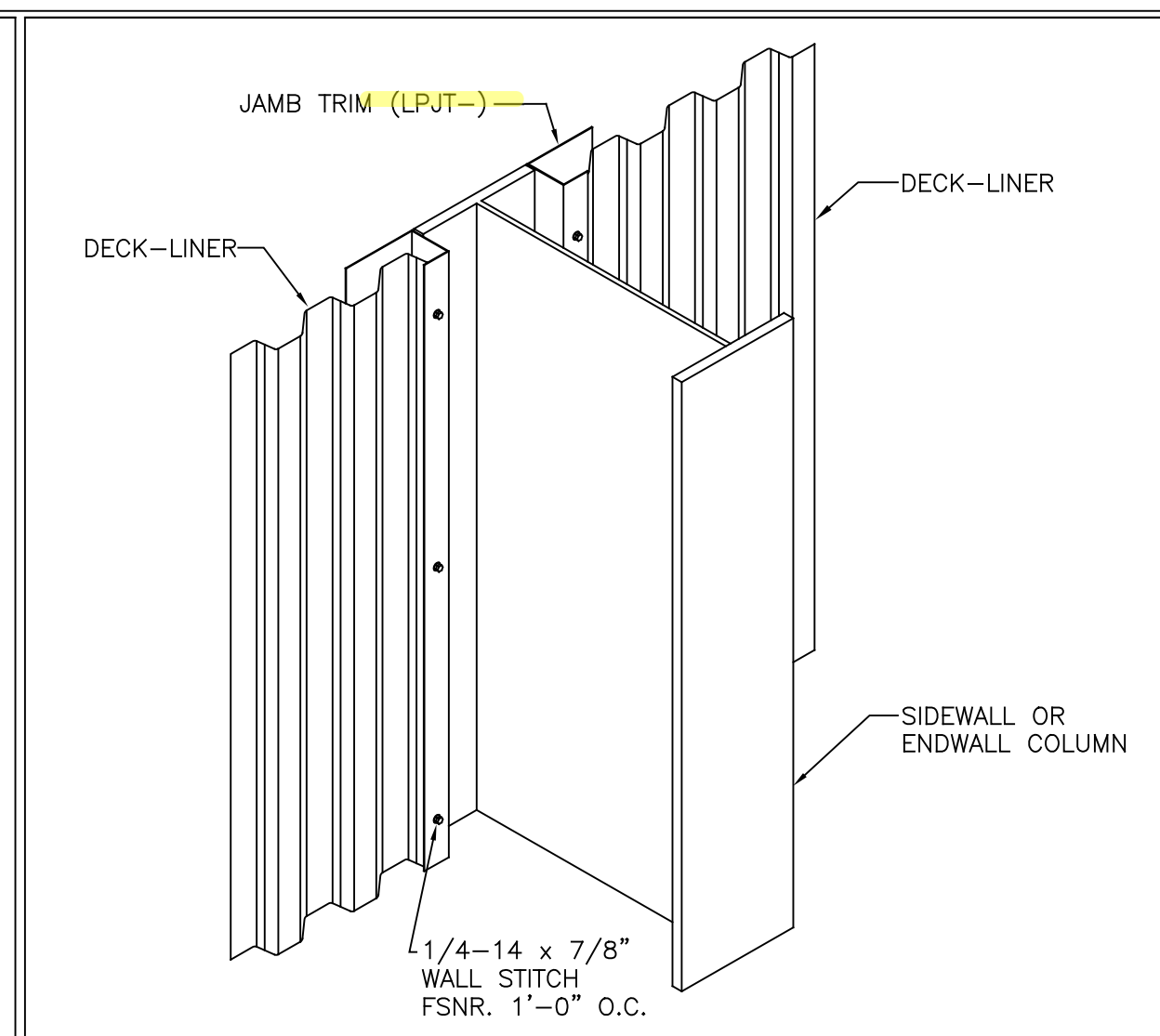
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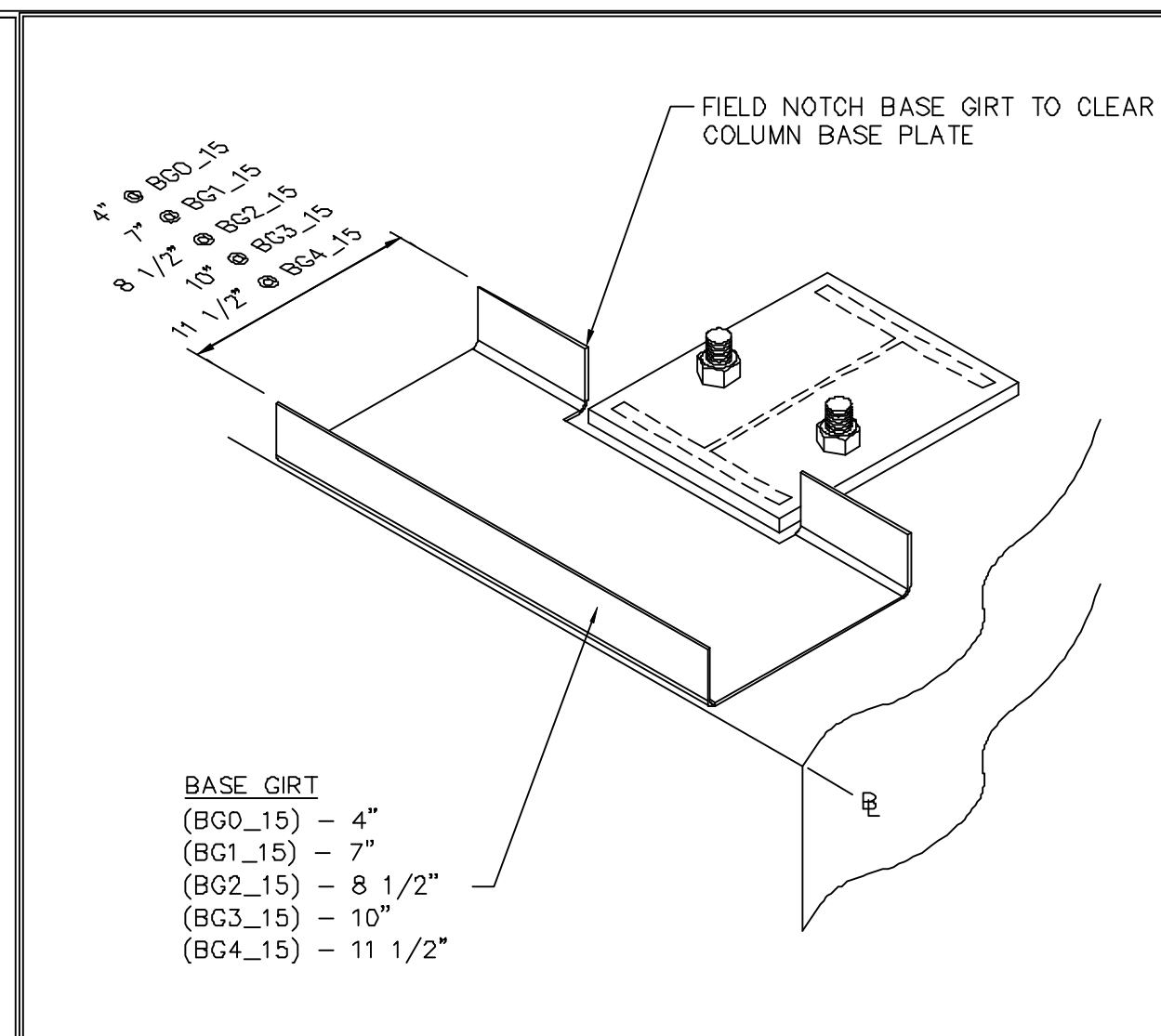
D	VP Buildings 3200 Players Club Circle Memphis TN 38125				BUILDER Lemartec Corporation	CUSTOMER Duke Energy	LOCATION Dunn, North Carolina	PROJECT Duke Energy Dunn Operations Center - Operations	BUILDERS PO# 23068 - Ops	VPC VERSION: 24.1.1	JOBNO 23-016001-02	DATE 5/1/2024	DRAWN/CHECK LKH SM/CS	PAGE 54
	REV	DATE	BY	DESCRIPTION										
<p>NTS</p> <p>5/14/2024 SEDSheet 13:49:03</p>											<p>FILENAME: hip Duke Energy - Ops</p> <p>a division of BlueScope Buildings North America, Inc.</p>			



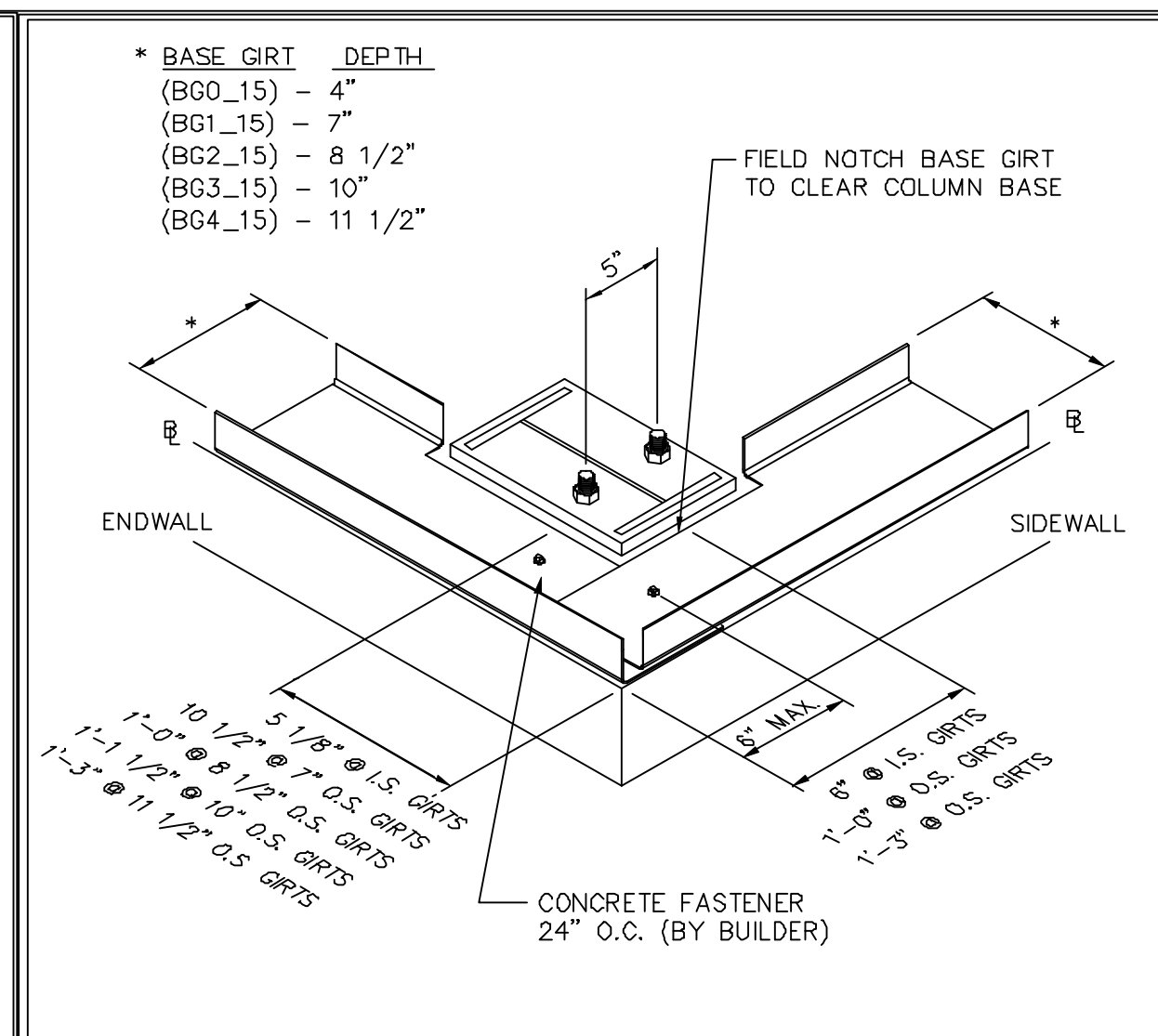
REV. DATE: 10/28/19 | REV. NO. 00  
 WLVO14 DECK-LINER PANEL ATTACHMENT TRIM AT COLUMN; INSET WALL



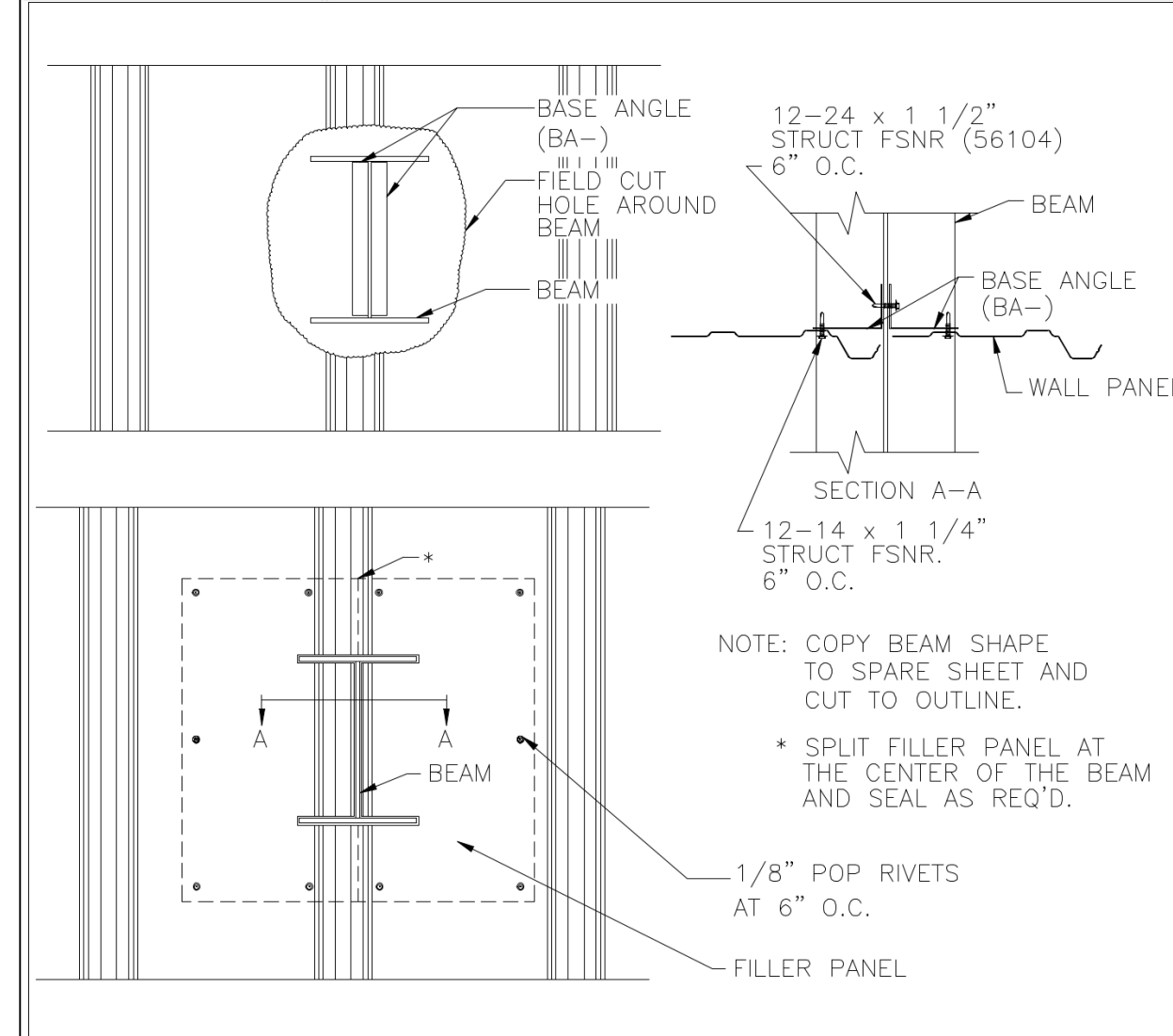
REV. DATE: 10/28/19 | REV. NO. 00  
 WLVO15 DECK-LINER PANEL ATTACHMENT TRIM AT COLUMN; OUTSET WALL



REV. DATE: 06/11/13 | REV. NO. 01  
 WS27B2 BASE GIRTS AT COLUMN ALL BASE GIRTS DEPTHS



REV. DATE: 06/13/13 | REV. NO. 01  
 WS27D2 BASE GIRTS AT CORNER COLUMN ALL BASE GIRTS DEPTHS



REV. DATE: 12/21/15 | REV. NO. 01  
 WC82A1 BEAM PENETRATION AT WALL PANEL PR, VR OR RPR WALLS

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REV	DATE	BY	DESCRIPTION

VP Buildings		3200 Players Club Circle Memphis TN 38125	
BUILDER	Lemartec Corporation	CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina	PROJECT	Duke Energy Dunn Operations Center - Operations
BUILDERS PO#	23068 - Ops	VPC VERSION:	24.1.0
DATE	4/16/2024	TIME	10:35:02

**COVERING & TRIM SED'S (g)**

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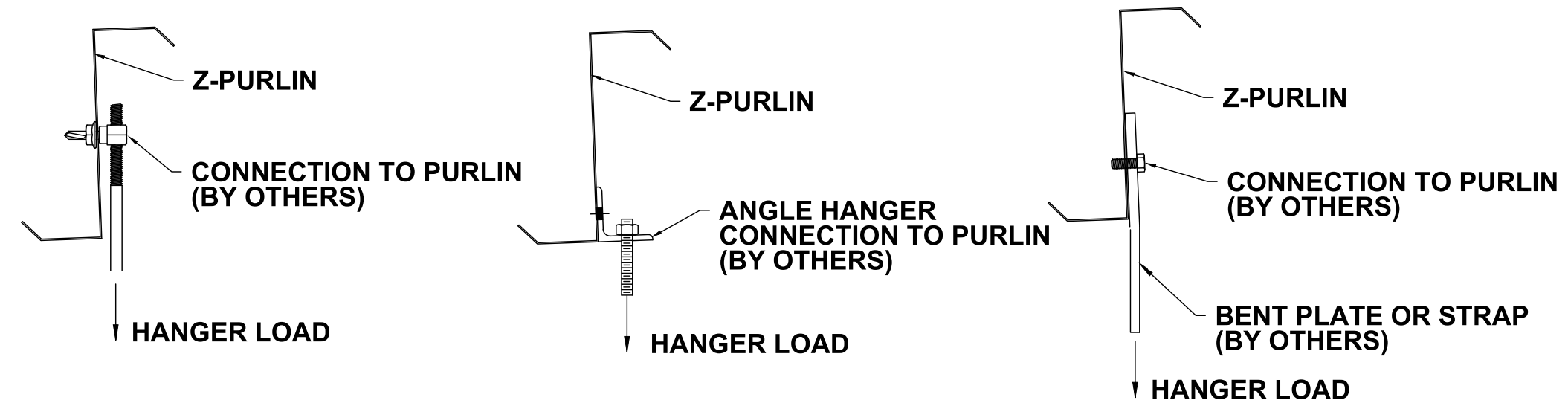
**MMSA**  
 STRUCTURAL ENGINEERS  
 RECEIVED: 08/01/2024

**SEAL**  
 047190  
 ALAN M. JUNGNITSCH  
 ENGINEER  
 NORTH CAROLINA PROFESSIONAL

05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

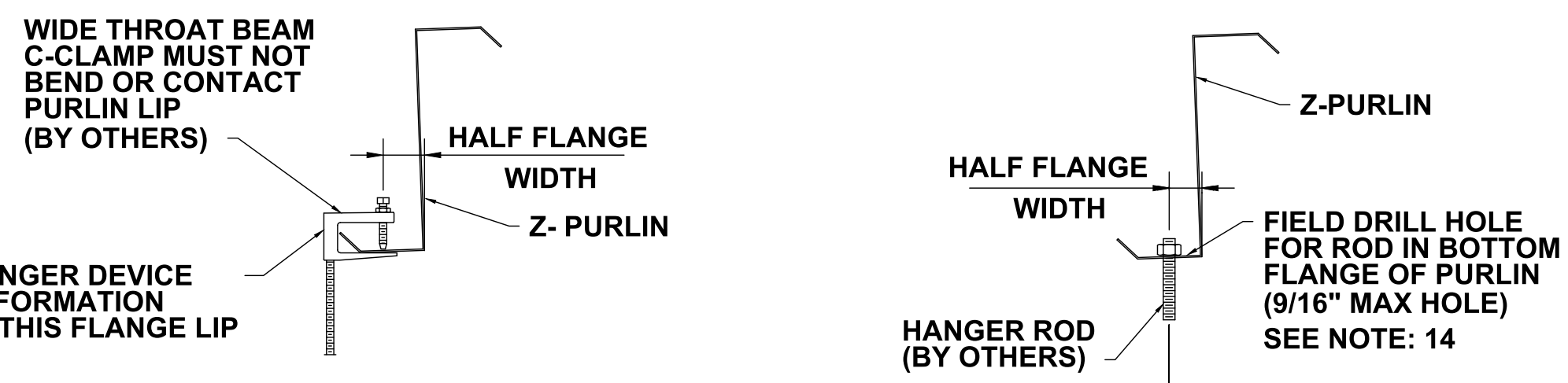
JOBNO	23-016001-02
DATE	5/1/2024
DRAWN/CHECK	LKH SM
PAGE	55

VP BUILDINGS  
 VARCO PRUDEN  
 A BlueScope Steel Company  
 a division of BlueScope Buildings North America, Inc.



**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

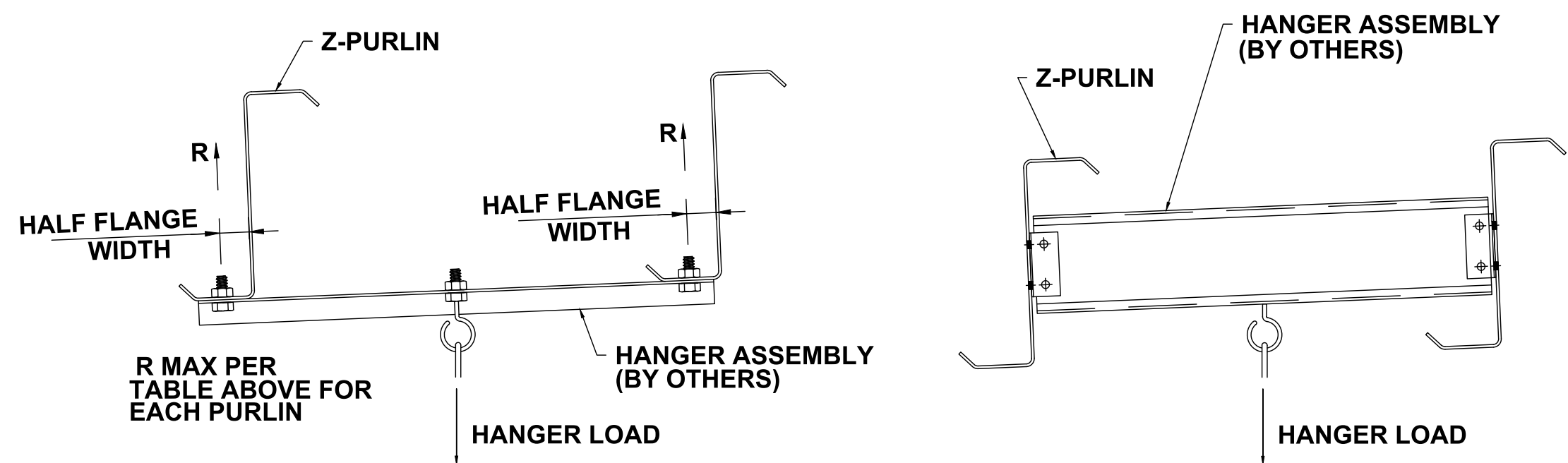
MAXIMUM LOAD SUSPENDED FROM BOTTOM FLANGE (LOCATED AT HALF-FLANGE WIDTH)			
THICKNESS	MAX LOAD	THICKNESS	MAX LOAD
0.060"	110lbs	0.088"	200lbs
0.068"	120lbs	0.098"	250lbs
0.073"	140lbs		
0.079"	180lbs	0.113"	250lbs

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

**BOTTOM FLANGE CLAMP HANGER  
(TOP FLANGE SIMILAR)**

**BOTTOM FLANGE ROD HANGER  
(TOP FLANGE SIMILAR)**

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

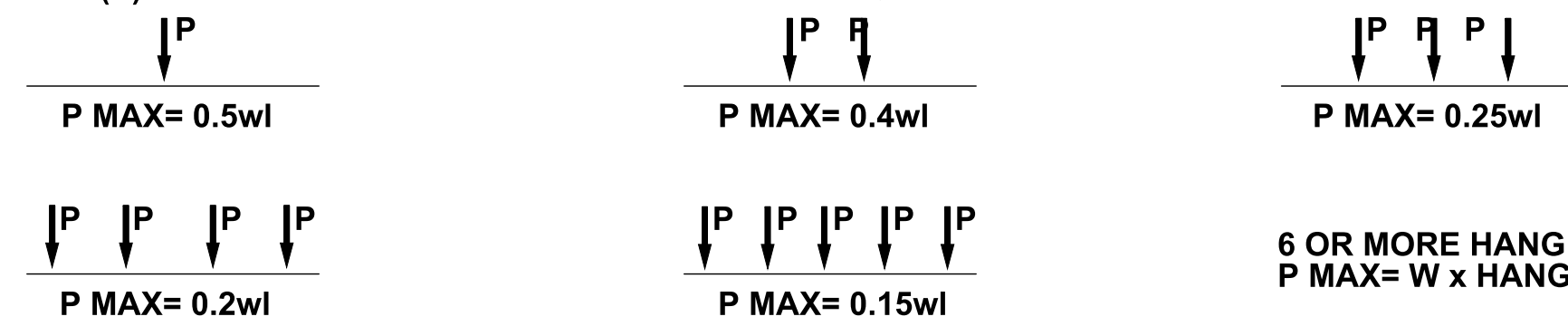


**DOUBLE PURLIN HANGERS**

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"  
P MAX = 0.25 x 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. IF 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



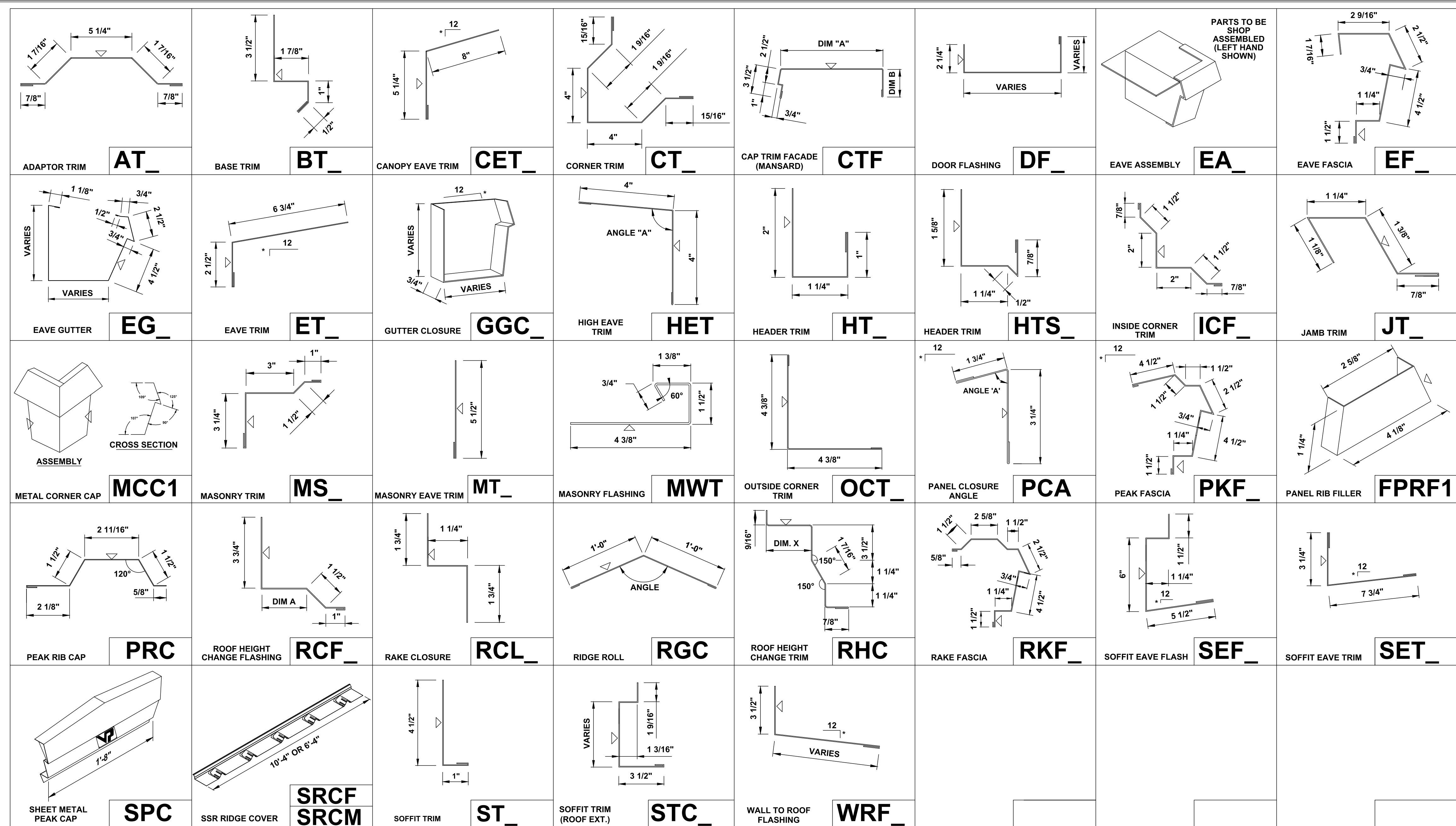
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CONCENTRATED LOADS ON ROOF Z-PURLIN HANGER DETAILS			
DRAWN BY	CHECKED BY	GROUP NUMBER: 80 - 054 - 01	
REVERITT	RBENTON	<b>B</b>	<b>B-081465</b>
FIRST RELEASE DATE	REVISION DATE		
02/26/10	02/26/20		



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				<p>CUSTOMER <b>Duke Energy</b></p>	
		<p>LOCATION <b>Dunn, North Carolina</b></p>	<p>PROJECT <b>Duke Energy Dunn Operations Center - Operations</b></p>		<p>VP BUILDINGS VARCO PRUDEN A BlueScope Steel Company VPC VERSION: <b>24.1.0</b></p>
		<p>NTS</p>	<p>BUILDERS PO# <b>23068 - Ops</b></p>	<p>PAGE <b>56</b></p>	
		<p>4/17/2024 SEDSheet 13:12:34</p>	<p>FILENAME: <b>Duke Energy - Ops</b></p>		<p>a division of BlueScope Buildings North America, Inc.</p>

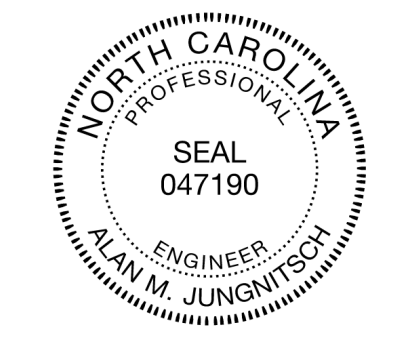


**\*TRIM COLOR NOTE\***  
 ▲ DESIGNATES COLOR SIDE

STANDARD TRIMS			
DRAWN BY NF	CHECKED BY RJR	GROUP NUMBER: - -	
FIRST RELEASE DATE 03/05/13	REVISION DATE 12/05/18	<b>B</b>	<b>S-081766 02</b>



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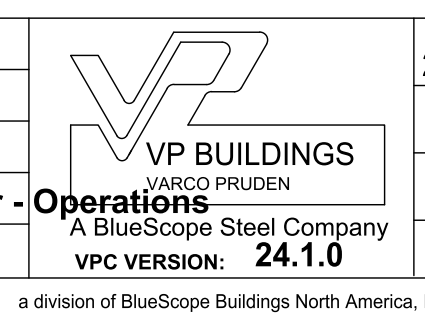
05/28/2024  
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 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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<b>D</b>	VP Buildings		S-081766	
	3200 Players Club Circle Memphis TN 38125		BUILDER	Lemartec Corporation
	REV	DATE	BY	DESCRIPTION
			CUSTOMER	Duke Energy
			LOCATION	Dunn, North Carolina
			PROJECT	Duke Energy Dunn Operations Center - Operations
			BUILDERS PO#	23068 - Ops
NTS		DRAWING CHECK		LKH SM/CS
4/17/2024 SEDSheet 13:12:37		FILENAME:		Duke Energy - Ops
		JOBNO		23-016001-02
		DATE		5/1/2024
		DRAWING CHECK		LKH SM/CS
		PAGE		58



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**ROOF/WALL STRUCTURAL FASTENER**

(T-2) #12-14 x 1 1/4", 5/16" HEX HD, SS CAP W/WASHER  
 MARK  
 NUMBER COLOR  
 097584\_\_\_ SEE COLOR SUFFIX CHART BELOW

**ROOF/WALL STRUCTURAL FASTENER**

(T-2) #12-14 x 1 1/2", 5/16" HEX HD, SS CAP W/WASHER  
 MARK  
 NUMBER COLOR  
 097585\_\_\_ SEE COLOR SUFFIX CHART BELOW

**WALL STRUCTURAL FASTENER**

(T-2) #17/#12-14 x 1 7/8", STAND OFF 5/16" HEX HD, SS CAP W/WASHER  
 MARK  
 NUMBER COLOR  
 097597\_\_\_ SEE COLOR SUFFIX CHART BELOW

**ROOF STITCH FASTENER**

(T-1) 1/4-14 x 1 1/8", 5/16" HEX HD, SS CAP W/WASHER  
 MARK  
 NUMBER COLOR  
 097582\_\_\_ SEE COLOR SUFFIX CHART BELOW

**ROOF/WALL STITCH FASTENER**

(T-1) 1/4-14 x 7/8", 5/16" HEX HD, SS CAP W/WASHER  
 MARK  
 NUMBER COLOR  
 097581\_\_\_ SEE COLOR SUFFIX CHART BELOW

**COLOR SUFFIX CHART**

SUFFIX	COLOR	SUFFIX	COLOR
100	= COOL ARCTIC WHITE	112	= COOL GRANITE GRAY
101	= COOL EGYPTIAN WHITE	113	= COOL SIERRA TAN
102	= COOL COTTON WHITE	115	= COOL COLBALT BLUE
103	= COOL COLONIAL RED	116	= COOL ZINC GRAY
104	= COOL STRAW GOLD	117	= COOL COPPER PENNY
105	= COOL DARK BRONZE	118	= COOL METALLIC SILVER
106	= COOL WEATHERED COPPER	119	= COOL JADE GREEN
107	= COOL BERMUDA GREEN	120	= COOL BRIGHT RED
108	= COOL HEMLOCK GREEN	121	= COOL PARCHMENT
109	= COOL LEAF GREEN	122	= COOL OLD TOWN GRAY
110	= COOL EBONY	UNPNTD	= UN PAINTED
111	= COOL IMPERIAL BLUE	SPR	= SPECIAL REQUEST

**MISC. STRUCTURAL FASTENERS**

MARK  
 NUMBER  
 55307 (T-3) 1/4-14 x 1 1/4", 5/16" HEX HD  
 55309 (T-3) 1/4-14 x 2", 5/16" HEX HD  
 55310 (T-3) 1/4-14 x 3", 3/8" HEX HD  
 55311 (T-3) 1/4-14 x 4", 3/8" HEX HD  
 56104 (T-5) #12-24 x 1 1/2", 5/16" HEX HD  
 59227 (T-5) 1/4-28 x 3", 5/16" HEX HD  
 59228 (T-5) 1/4-28 x 4", 5/16" HEX HD  
 55308 (T-AB) #17-14 x 1", 5/16" HEX HD, SS CAP W/WASHER (BAG of 50)  
 58015 (T-1) 1/4-14 x 1 1/8", 5/16" HEX HD, SS CAP W/ 7/8" WASHER

**RIVETS**

**BULB TITE STRUCTURAL BLIND RIVET**  
 MARK  
 NUMBER DESCRIPTION COLOR  
 55160 VP200 RIVET (RV6604-6-8W OLYMPIC BULB TITE) ALUMINUM  
 55181 VP205 RIVET (RV6604-6-4W OLYMPIC BULB TITE) COOL ARCTIC WHITE  
 55185 VP205 RIVET (RV6604-6-4W OLYMPIC BULB TITE) COOL DARK BRONZE

**SEALANT**

MARK  
 NUMBER DESCRIPTION  
 016688 GRAY SKINNING  
 025392 GRAY NON-SKINNING  
 80507 BRONZE SKINNING  
 80531 FLEXIBLE FLASHING SILICONE ADHESIVE (GRAY)

**TAPE MASTIC**

MARK  
 NUMBER DESCRIPTION  
 97663 3/16" X 1 1/2" X 40' ROLL  
 97662 3/16" X 1" X 28" BOX OF 100  
 200 LINEAL FEET OF COVERAGE PER BOX  
 80347 1/8" X 1" X 9" (50) AND 3" (150) BOX  
 100 LINEAL FEET OF COVERAGE PER BOX  
 027893 1/8" X 1" X 25' ROLL  
 025390 3/16" X 1/4" X 40' ROLL

**PANEL CLOSURES**

MARK  
 NUMBER DESCRIPTION  
 80130 PANEL RIB 3' INSIDE CLOSURE  
 80140 PANEL RIB 3' OUTSIDE CLOSURE  
 80360 VEE RIB 3' INSIDE CLOSURE  
 80362 VEE RIB 3' OUTSIDE CLOSURE  
 80140 RPR 3' INSIDE PANEL CLOSURE  
 80130 RPR 3' OUTSIDE PANEL CLOSURE  
 80135 SSR FOAM INSIDE CLOSURE  
 80136 SSR HARD RUBBER INSIDE CLOSURE

**POP RIVETS**

POP RIVET 1/8 x 3/8"  
 MARK  
 NUMBER COLOR  
 097580\_\_\_ SEE COLOR SUFFIX CHART BELOW

VP COMMON WAREHOUSE PARTS			
DRAWN BY	CHECKED BY	GROUP NUMBER:	
BJW	RJR	B	S-081767 08
FIRST RELEASE DATE	REVISION DATE		
01/22/13	06/24/22		



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 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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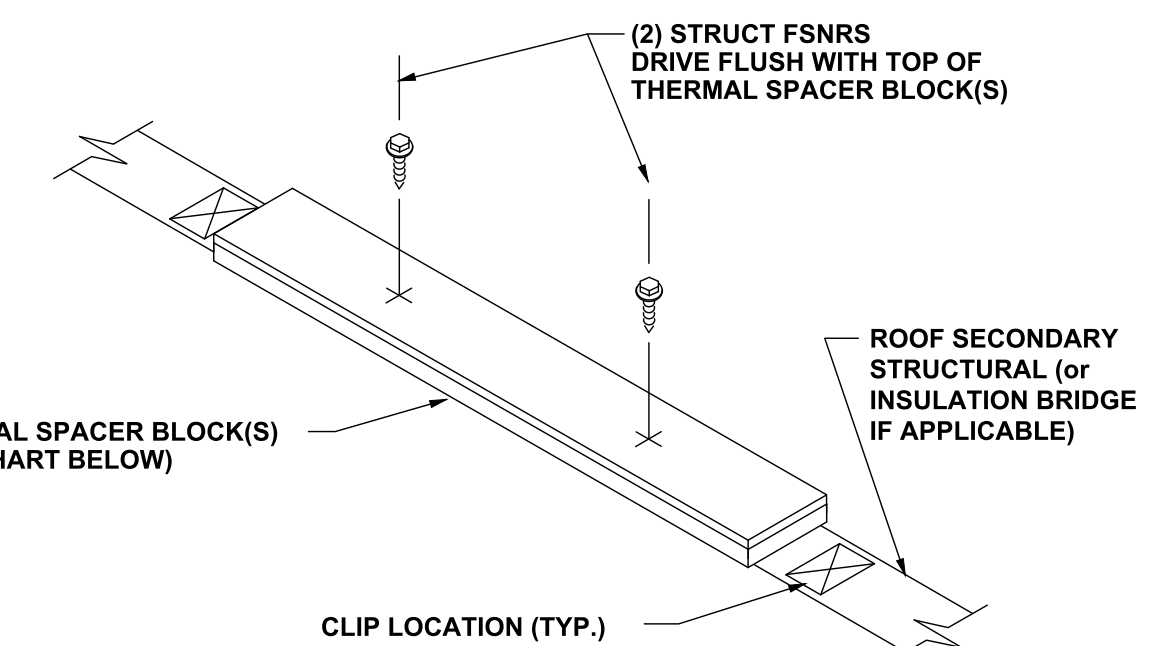
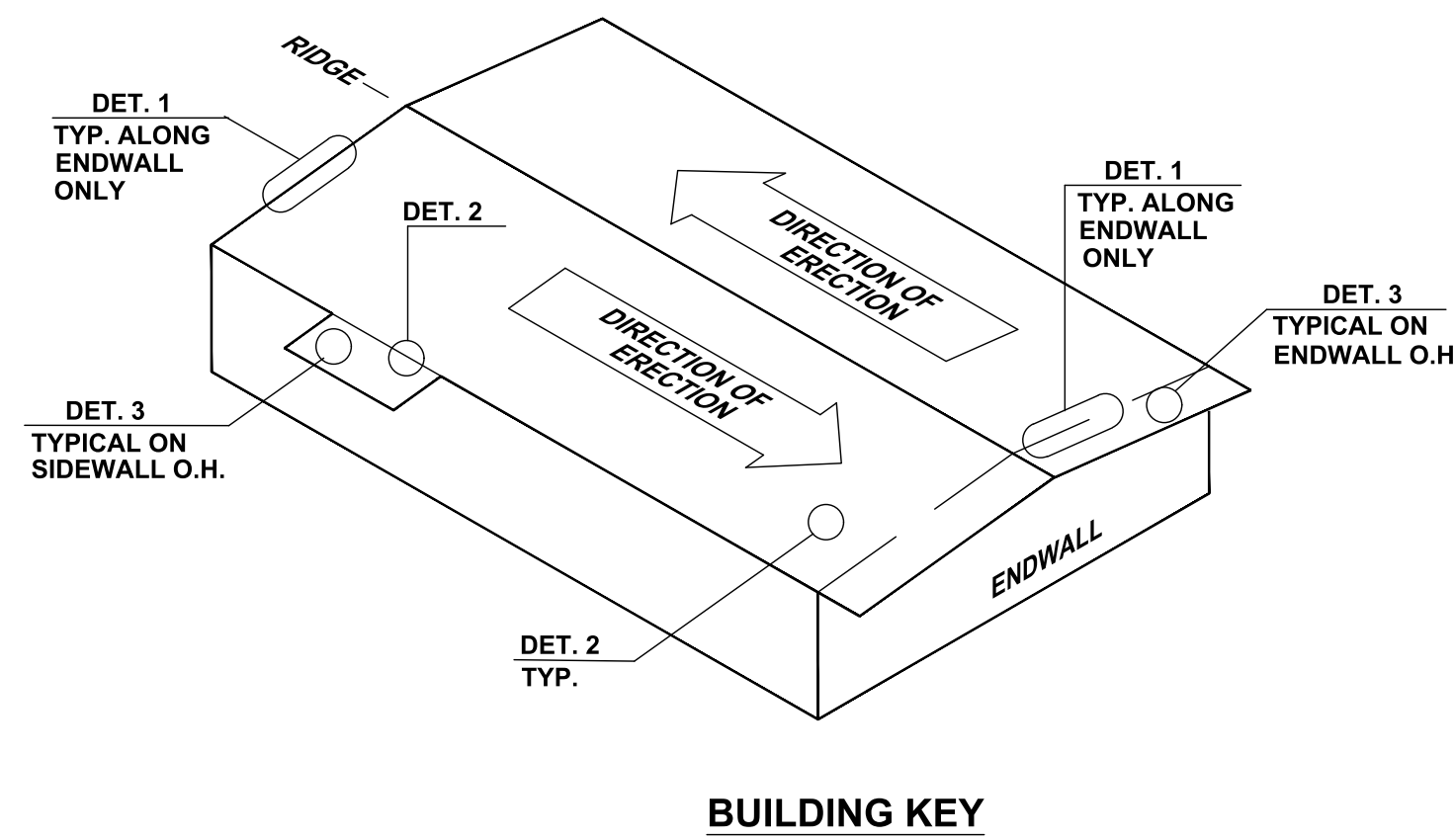
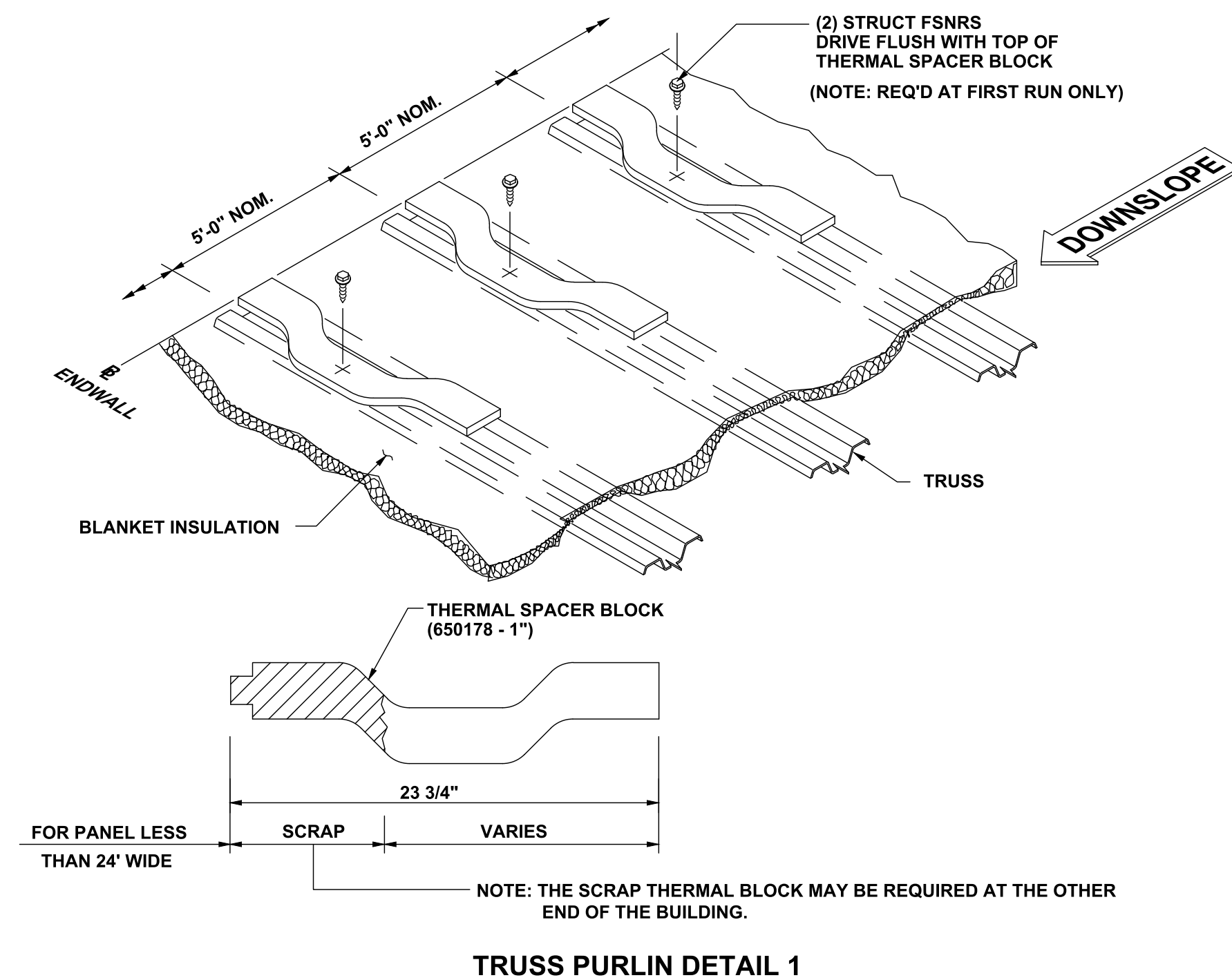
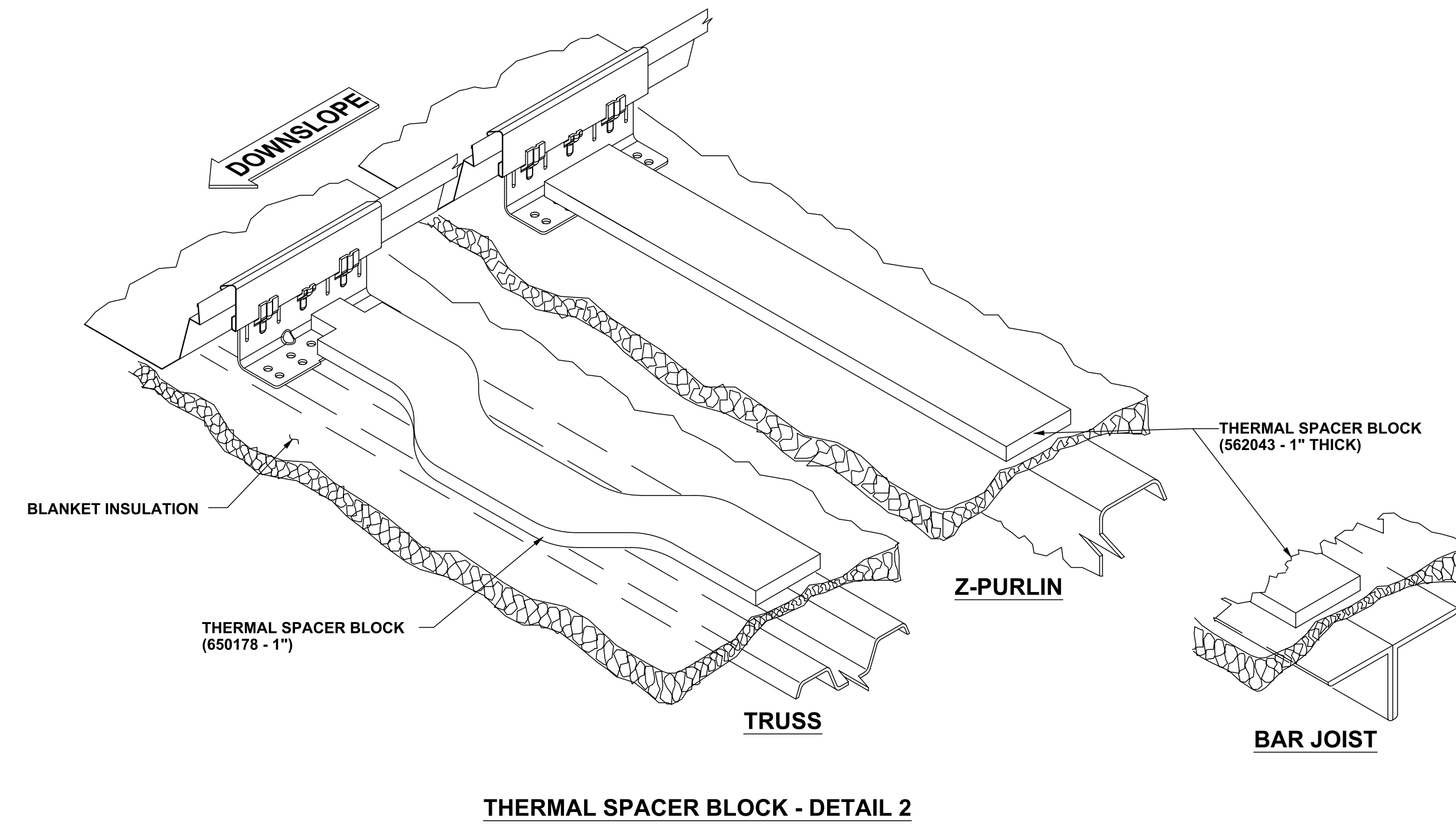
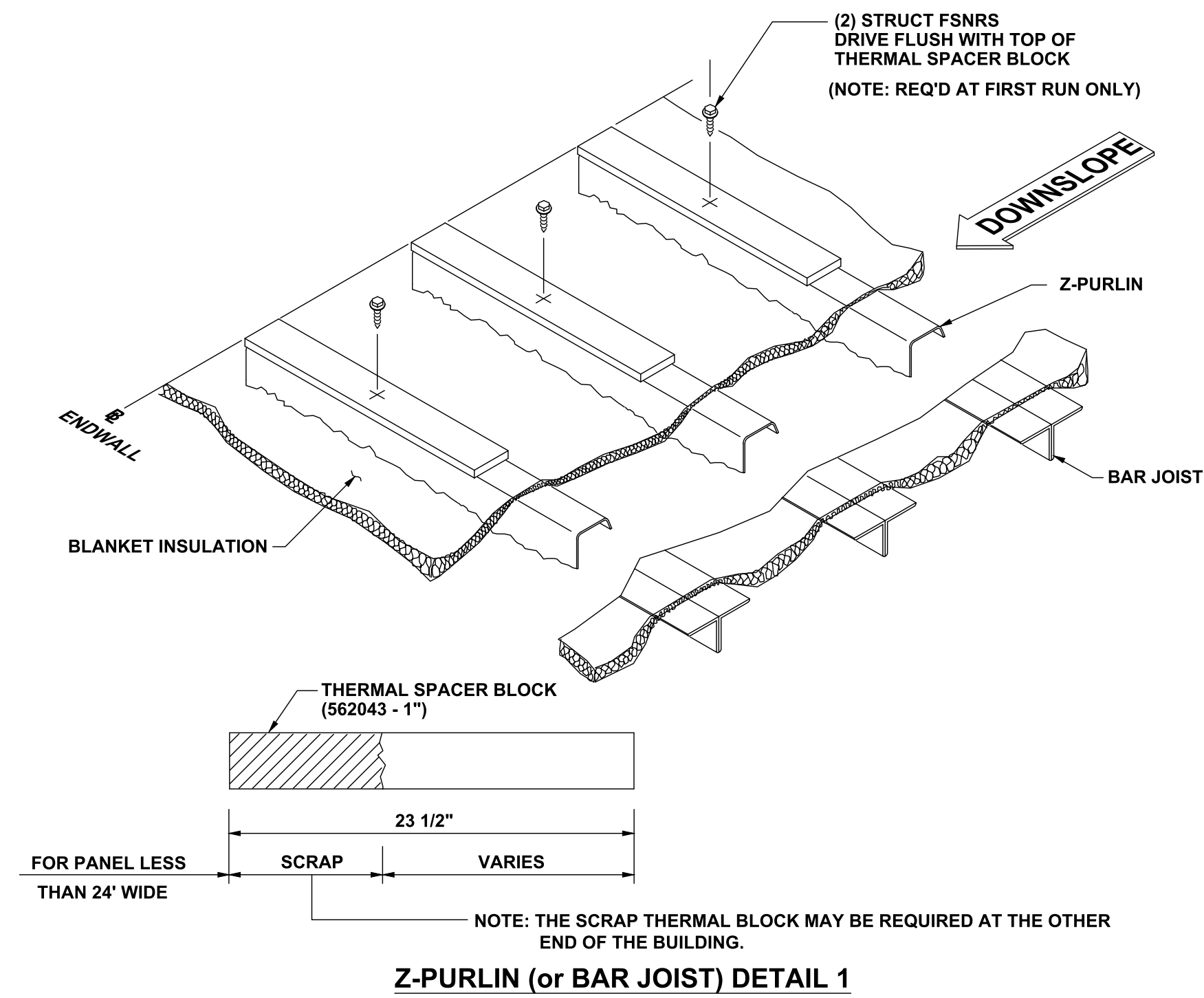
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REV	DATE	BY	DESCRIPTION	VP Buildings		S-081767
				3200 Players Club Circle	Memphis TN 38125	
				BUILDER	Lemartec Corporation	JOBNO 23-016001-02
				CUSTOMER	Duke Energy	
				LOCATION	Dunn, North Carolina	DRAWN/CHECK LKH SM/CS
				PROJECT	Duke Energy Dunn Operations Center - Operations	PAGE 59
				BUILDERS PO#	23068 - Ops	
				NTS		





NOTE: IT IS RECOMMENDED THAT OPEN AREAS HAVE A MINIMUM OF 2" FACED INSULATION TO REDUCE CONDENSATION IN THESE AREAS.  
 - IN OPEN AREAS WITH NO BLANKET INSULATION MORE THAN ONE THERMAL BLOCK MAY BE REQUIRED TO FILL VOID FOR PANEL SUPPORT. SEE CHART BELOW:

THERMAL BLOCKS AT OPEN AREAS	
CLIP HEIGHT - GAP:	THERMAL BLOCKS:
SHORT - 1/2"	650179
MEDIUM - 1"	562043
TALL - 1 1/2"	650179, 562043
X-TALL - 2"	(2) 562043

**THERMAL BLOCK AT OPEN AREAS - DETAIL 3**

SSR THERMAL BLOCK INSTALLATION			
DRAWN BY	CHECKED BY	GROUP NUMBER:	00 00 00
BPB	RJR	<b>B</b>	<b>S-090028 02</b>
FIRST RELEASE DATE	REVISION DATE		
01/19/16	06/29/18		



This document has been electronically signed and sealed by Alan Jungnitsch, PE using my Digital Signature with PE seal affixed. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copy 2024.05.28 15:30:57-05'00'



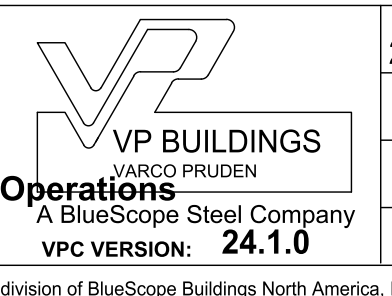
05/28/2024  
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.  
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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<b>D</b>	VP Buildings		S-090028		
	3200 Players Club Circle Memphis TN 38125				
	REV	DATE	BY	DESCRIPTION	
BUILDER	Lemartec Corporation		CUSTOMER	Duke Energy	
LOCATION	Dunn, North Carolina		PROJECT	Duke Energy Dunn Operations Center - Operations	
BUILDERS PO#	23068 - Ops		VPC VERSION:	24.1.0	
4/17/2024 SEDSheet		13:12:40		FILENAME: Duke Energy - Ops	
JOBNO		23-016001-02		DATE	5/1/2024
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