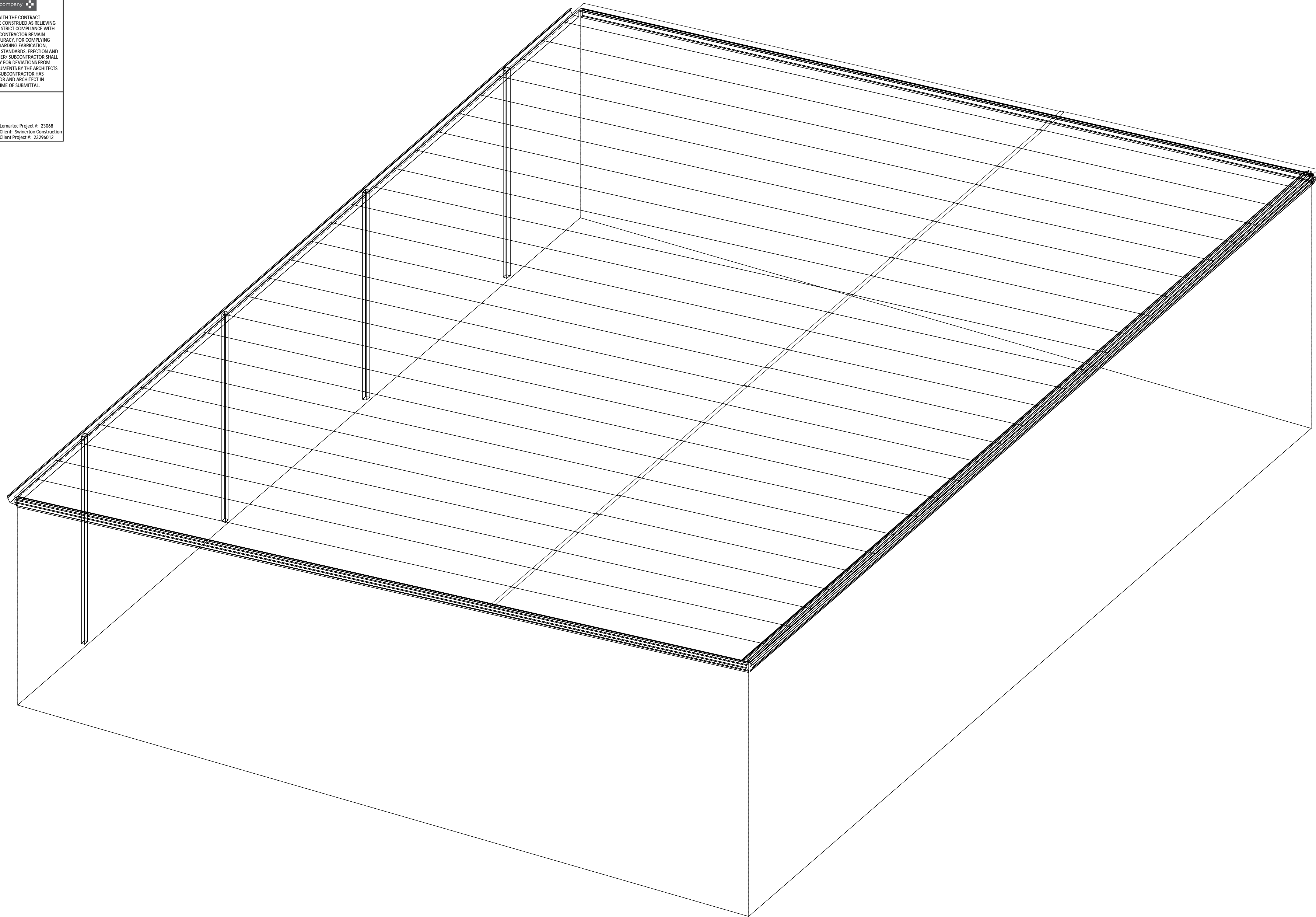


DRAWING INDEX		DRAWING RELEASE HISTORY		
DRAWING TITLE	PAGES	TYPE	DATE	DESCRIPTION
Cover Sheet	1	Anchor Rod Drawings Rev 0	2/13/2024	FOR CONSTRUCTION
Codes and Loads	2	Permit Drawings Rev 0	2/13/2024	PERMIT SET- For Building Dept. Approval
Notes	3			
Anchor Rod Plan	4-5			
Primary Structural	6-13			
Secondary Structural	14-21			
Covering	22-29			
Special Drawings				
Standard Erection Details				
Planograph Details				



VP Buildings 3200 Players Club Circle Memphis TN 38125

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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.



D

# COVER SHEET

BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - 60x80
BUILDERS PO#	23068 - 60x80



**VPC VERSION: 2023.4a**

JOBNO <b>23-015996-01</b>
DATE <b>02/13/2024</b>
DRAWN / CHECK <b>MB WJC</b>
PAGE <b>1</b>

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**2/12/2024**

15:32:43

FILENAME Duke Energy - Bucket-Line-Lowboy Covered Shelters

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: DunnCounty: HarnettState: North CarolinaCountry: United States

Building Code

Building Code: 2018 North Carolina Building CodeStructural: 10AISC - ASDRainfall: I: 12.00 inches per hour

Based on Building Code: 2015 International Building CodeCold 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 psfCollateral Uplift: 0.00 psf

Material Dead Weight

Roof Covering + Second. Dead Load: 3.29 psfFrame 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) mphThe 'All Heights' Method is Used - User ModifiedWind Exposure: C - Kz: 0.891Parts Wind Exposure Factor: 0.891Wind Enclosure: Free Roof - Clear/ObstrTopographic Factor: Kzt: 1.0000Hurricane Prone RegionNOT Windborne Debris RegionBase Elevation: 0/0/0Primary Zone Strip Width: 2a: 18/10/8Parts / Portions Zone Strip Width: a: 6/0/0Velocity Pressure: qz: 27.45 psf

Snow Load

Ground Snow Load: pg: 10.00 psfFlat Roof Snow: pf: 7.56 psfDesign Snow (Sloped): ps: 7.56 psfRain Surcharge: 0.00Specified Minimum Roof Snow: 10.00 psf (Code)Exposure Factor: 1 Fully Exposed - Ce: 0.90Snow Importance: Is: 1.000Thermal Factor: Unheated - Ct: 1.20Ground / Roof Conversion: 0.70Unobstructed, Slippery

Seismic Load

Lateral Force Resisting Systems using Equivalent Force ProcedureMapped MCE Acceleration: Ss: 17.90 %gMapped MCE Acceleration: S1: 8.40 %gSite Class: Stiff soil (D)Seismic Importance: Ie: 1.000Design Acceleration Parameter: Sds: 0.1909Design Acceleration Parameter: Sd1: 0.0000Seismic Design Category:: CSeismic Snow Load: 0.00 psf% Snow Used in Seismic: 0.00Diaphragm Condition: RigidFundamental Period Height Used: 18/10/8

Transverse Direction Parameters

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

Longitudinal Direction Parameters

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

BUCKET/LINE/LOWBOY  
Roof: A

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02/13/2024

040258

SEAL

ENGINEER

JASON CLYMER

PE

NORTH CAROLINA

PERMIT SET- For Building Dept. Approval

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2/12/2024		15:32:43		VP BUILDINGS		JOBNO 23-015996-01			
						DATE 02/13/2024			
						DRAWN/CHECK MB WJC			
						PAGE 2			
						FILENAME: Duke Energy - Bucket-Line-Lowboy Covered Shelters			

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

EXISTING STRUCTURES

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.

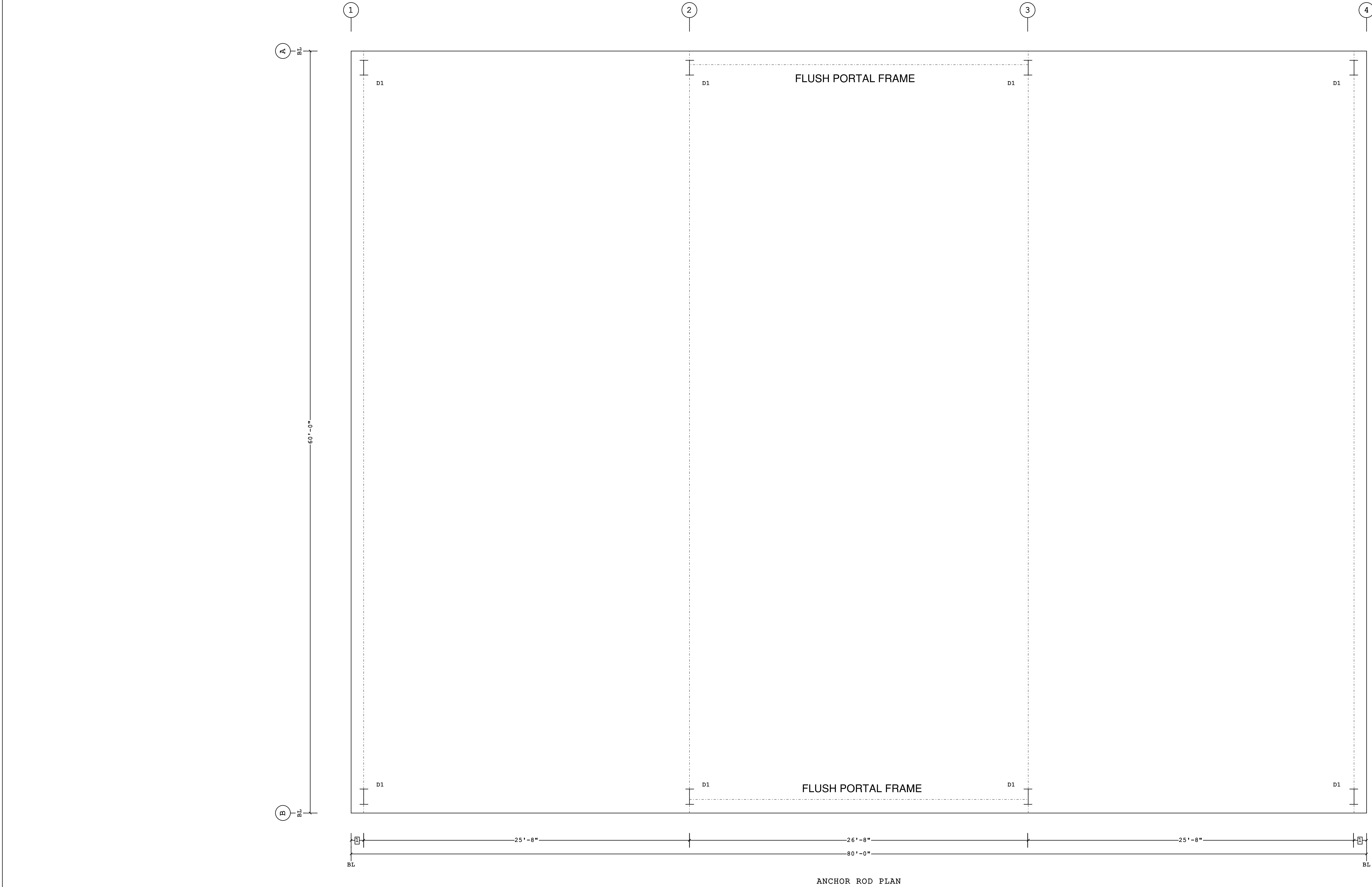
24 Ga SLR II (0.0227" Nominal), is available in Class 1-75 and 1-120.

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				REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation
								CUSTOMER	Duke Energy
								LOCATION	Dunn, North Carolina
								PROJECT	Duke Energy Dunn Operations Center - 60x80
				NTS				BUILDERS PC#	23068 - 60x80
								<div><div><div><div></div><div>VP BUILDINGS</div><div>VARCO PRUJEN</div></div><div>A BlueScope Steel Company</div><div>VPC VERSION: 2023.4a</div></div><div><div>JOBNO</div><div>23-015996-01</div><div>DATE</div><div>02/13/2024</div><div>DRAWN/CHECK</div><div>MB WJC</div><div>PAGE</div><div>3</div></div></div>	

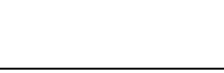


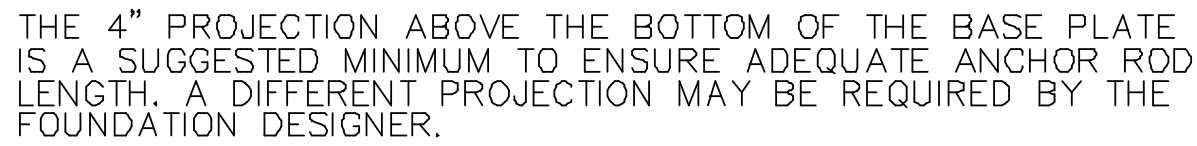
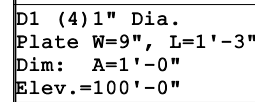
1 1'-0"  
Dimension Key

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**VP BUILDINGS**  
VARCO PRUDEN  
A BlueScope Steel Company  
VPC VERSION: 2023.4a

**SEAL**  
040258  
ENGINEER  
JASON CLYMER  
02/13/2024

Dimension Key		Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)				PERMIT SET- For Building Dept. Approval							
<=> 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.	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	VP Buildings		ANCHOR ROD PLAN							
				3200 Players Club Circle Memphis TN 38125									
				REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation		<div><p>VP BUILDINGS VARCO PRUDEN A BlueScope Steel Company VPC Version: 2023.4a</p></div>	JOBNO	23-015996-01
								CUSTOMER	Duke Energy			DATE	02/13/2024
								LOCATION	Dunn, North Carolina			DRAWN/CHECK	MB WJC
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								BUILDERS PO#	23068 - 60x80			FILENAME: Duke Energy - Bucket-Line-Lowboy Covered Shelters	
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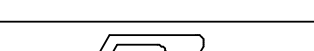


## SUGGESTED ANCHOR ROD PROJECTION

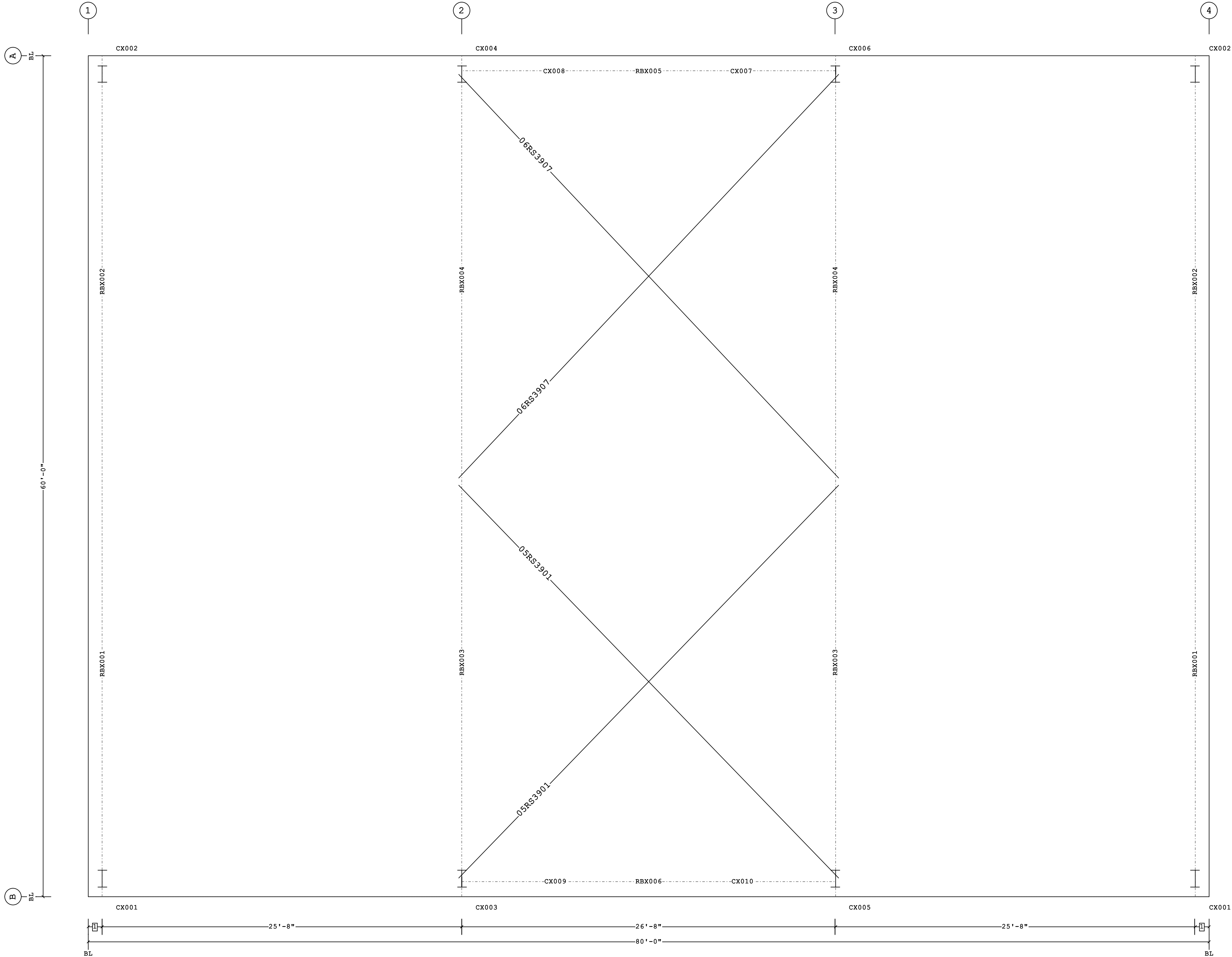


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						Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)													
⇔ THE BUILDING IS DESIGNED WITH BRACING DIAGONALS IN THE DESIGNATED BAYS. COLUMN BASE REACTIONS, BASE PLATES AND ANCHOR RODS ARE AFFECTED BY THIS BRACING AND DIAGONALS MAY 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.				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>ANCHOR ROD DETAILS</b>			
												REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation		 <div style="text-align: right;">           JOBNº 23-015996-01 DATE 02/13/2024 DRAWN/CHECK MB WJC PAGE 5         </div>
																CUSTOMER	Duke Energy		
																LOCATION	Dunn, North Carolina		
																PROJECT	Duke Energy Dunn Operations Center - 60x80		
																BUILDERS FOR	23068 - 60x80		
																NTS			
				2/12/2024		15:33:10		<small>A BlueScope Steel Company VPC VERSION: 2023.4a</small> <small>© 2023 BlueScope Buildings North America, Inc.</small>											

Bracing Part Schedule			
Part	Qty	Length	Detail
05RS3901	2	39'-1"	BR01G2
06RS3907	2	39'-7"	BR01G2



1 1'-0"  
Dimension Key

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**VP BUILDINGS**  
VARCO PRUDEN  
A BlueScope Steel Company  
VPC VERSION: 2023.4a

**ENGINEER'S SEAL**  
040258  
JASON CLYMER  
02/13/2024

Dimension Key

Shape Name = BUCKET/LINE/LOWBOY

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

REV

DATE

BY

DESCRIPTION

NTS

2/12/2024

15:38:38

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 - 60x80

BUILDERS PO#

23068 - 60x80

PRIMARY AND ROOF BRACING PLAN

VP BUILDINGS

VARCO PRUDEN

A BlueScope Steel Company

VP VERSION: 2023.4a

JOBNO

23-015996-01

DATE

02/13/2024

DRAWN/CHECK

MB WJC

PAGE

6

FILENAME:

Duke Energy - Bucket-Line-Lowboy Covered Shelters

Frame Member Schedule							Bolt Connection & Plate Schedule										Frame Clearances	
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo	Horiz. Clearance between members 1(CX007) and 4(CX008): 23'-3"
CX007	1	6.0000	.2500	.1345	1'-8"	1'-8"	15'-9 7/16"	330#										Vert. Clearance at member 1(CX007): 14'-3 13/16"
RBX005	2-3	8.0000	.2500	.1345	1'-4"	1'-4"	23'-2 1/2"	527#	A	8	A325	3/4"	2 1/2"	1/2"	2	2	0097284	Vert. Clearance at member 4(CX008): 14'-3 13/16"
CX008	4	6.0000	.2500	.1345	1'-8"	1'-8"	15'-9 7/16"	330#										Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



PORTAL FRAME ELEVATION ALONG A

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

☐ Dimension Key

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NORTH CAROLINA

Professional Engineer's Seal

SEAL

040258

ENGINEER

JASON CLYMER

02/13/2024

Dimension Key

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

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D

VP Buildings

3200 Players Club Circle Memphis TN 38125

REV

DATE

BY

DESCRIPTION

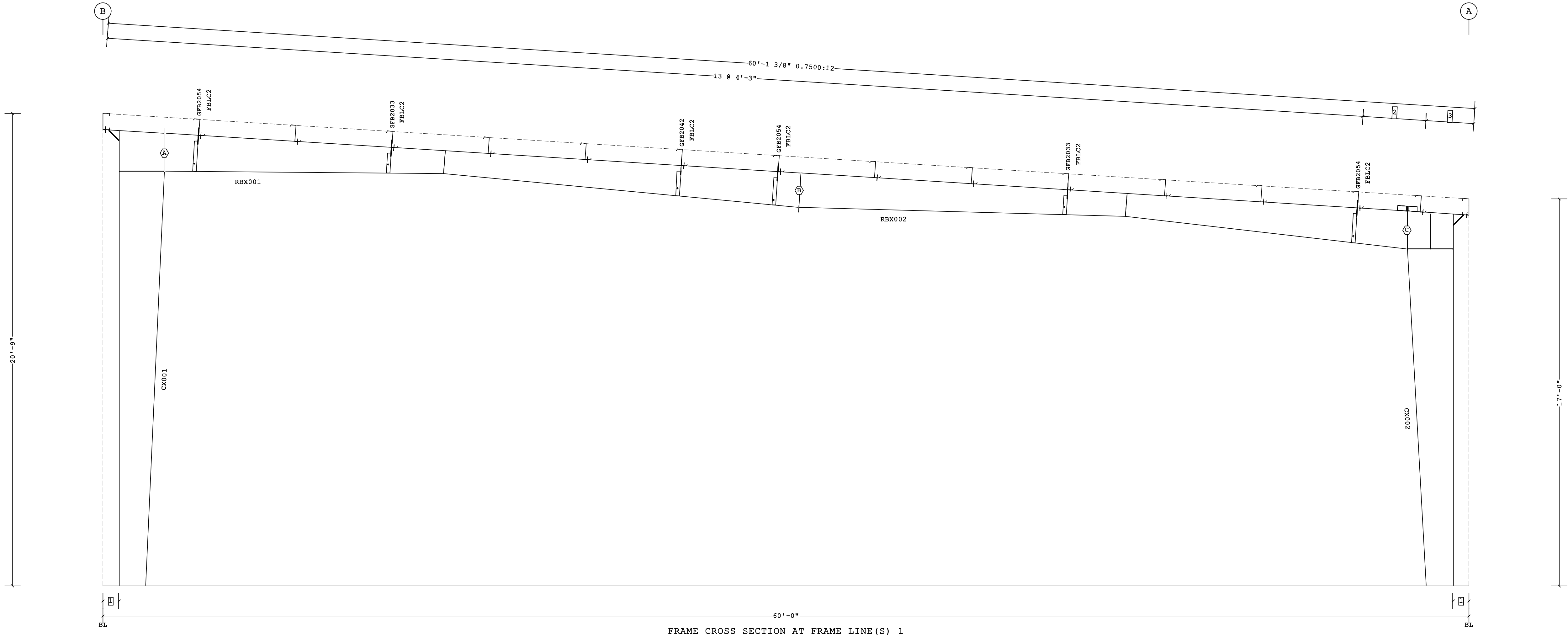
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2/12/2024

15:38:39

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Frame Member Schedule								Bolt Connection & Plate Schedule										Frame Clearances	
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
CX001	1	8.0000	.3750	.1345	1'-2"	2'-0"	19'-11 15/16"	647#											
RBX001	2	5.0000	.3750	.1644	1'-8"	1'-0"	27'-11 3/4"	539#	A	8	A325	3/4"	2 1/2"	1/2"	3	1	0097284		Horiz. Clearance between members 1 (CX001) and 6 (CX002): 54'-7"
	3	5.0000	.1875	.1875	1'-0"	1'-6"			B	6	A325	3/4"	2 1/2"	3/8"	1	2	0097284		Vert. Clearance at member 1 (CX001): 18'-1 15/16"
RBX002	4	5.0000	.2500	.1644	1'-6"	1'-0"	26'-9 7/16"	485#	C	8	A325	3/4"	2 1/2"	3/8"	3	1	0097284		Vert. Clearance at member 6 (CX002): 14'-9"
	5	5.0000	.3125	.1345	1'-0"	1'-8"													Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)
CX002	6	8.0000	.2500	.1345	1'-2"	2'-0"	16'-5 1/2"	422#											



- 3 2'-1 3/16"  
2 2'-9 3/16"  
1 8 1/2"

□ Dimension Key

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NORTH CAROLINA  
Professional Engineer's Seal  
SEAL  
040258  
ENGINEER  
JASON CLYMER  
02/13/2024

Dimension Key

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D

REV

DATE

BY

DESCRIPTION

NTS

2/12/2024

15:38:41

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 - 60x80

BUILDERS PO#

23068 - 60x80

FRAME CROSS SECTION AT FRAME LINE(S) 1

VP BUILDINGS

VARCO PRUDEN

A BlueScope Steel Company

VPC VERSION: 2023.4a

JOBNO

23-015996-01

DATE

02/13/2024

DRAWN/CHECK

MBWJC

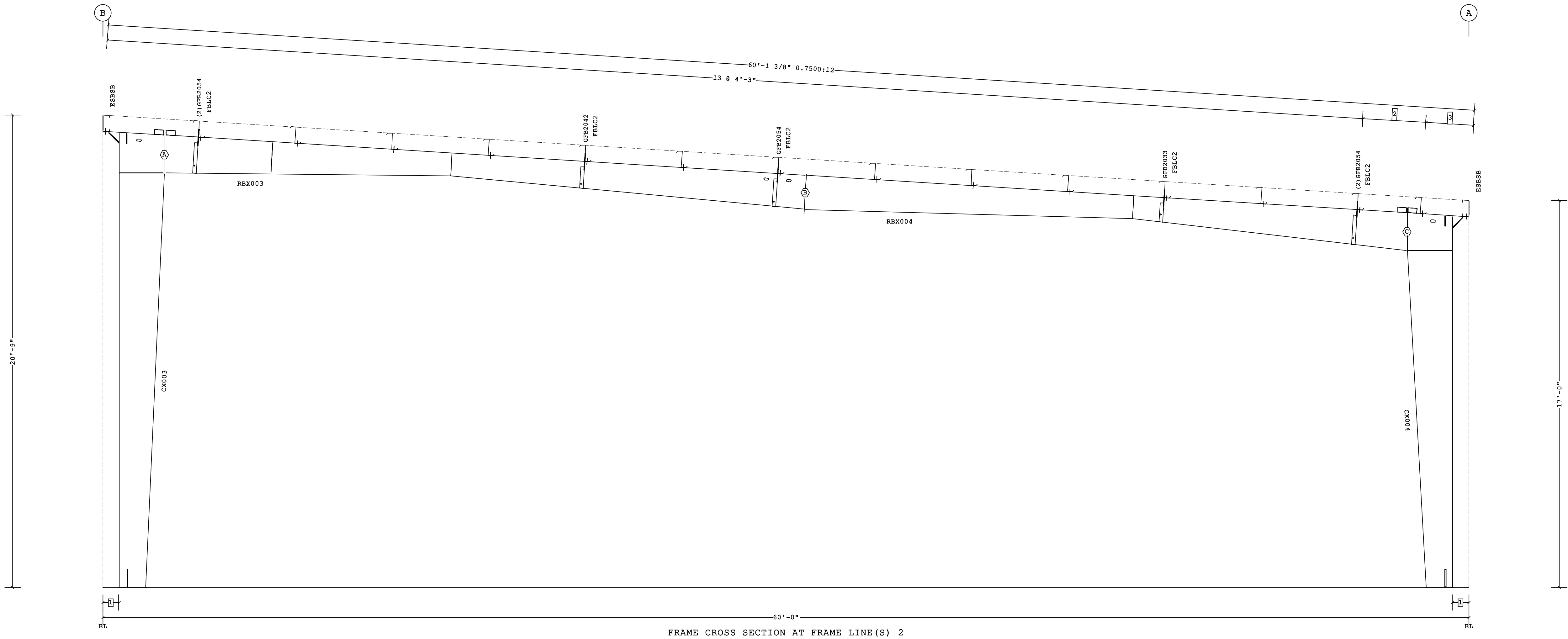
PAGE

8

FILENAME:

Duke Energy - Bucket-Line-Lowboy Covered Shelters

Frame Member Schedule								Bolt Connection & Plate Schedule										Frame Clearances	
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
CX003	1	8.0000	.5000	.1644	1'-2"	2'-0"	19'-11 15/16"	855#											
RBX003	2	6.0000	.6250	.1644	1'-8"	1'-0"	28'-2 3/4"	810#	A	12	A325	3/4"	2 1/2"	5/8"	4	2	0097284	Vert. Clearance at member 1(CX003): 18'-1 15/16"	
	3	6.0000	.3750	.1345	1'-0"	1'-6"			B	6	A325	3/4"	2 1/2"	1/2"	1	2	0097284	Vert. Clearance at member 6(CX004): 14'-9"	
RBX004	4	6.0000	.5000	.1345	1'-6"	1'-0"	26'-6 9/16"	771#	C	10	A325	3/4"	2 1/2"	1/2"	4	1	0097284	Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)	
	5	6.0000	.5000	.1644	1'-0"	1'-8"													
CX004	6	8.0000	.5000	.1644	1'-2"	2'-0"	16'-5 7/16"	710#											



- 3

2'-1 3/16"
- 2

2'-9 3/16"
- 1

8 1/2"

☐ Dimension Key

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NORTH CAROLINA

02/13/2024

ENGINEER

JASON CLYMER

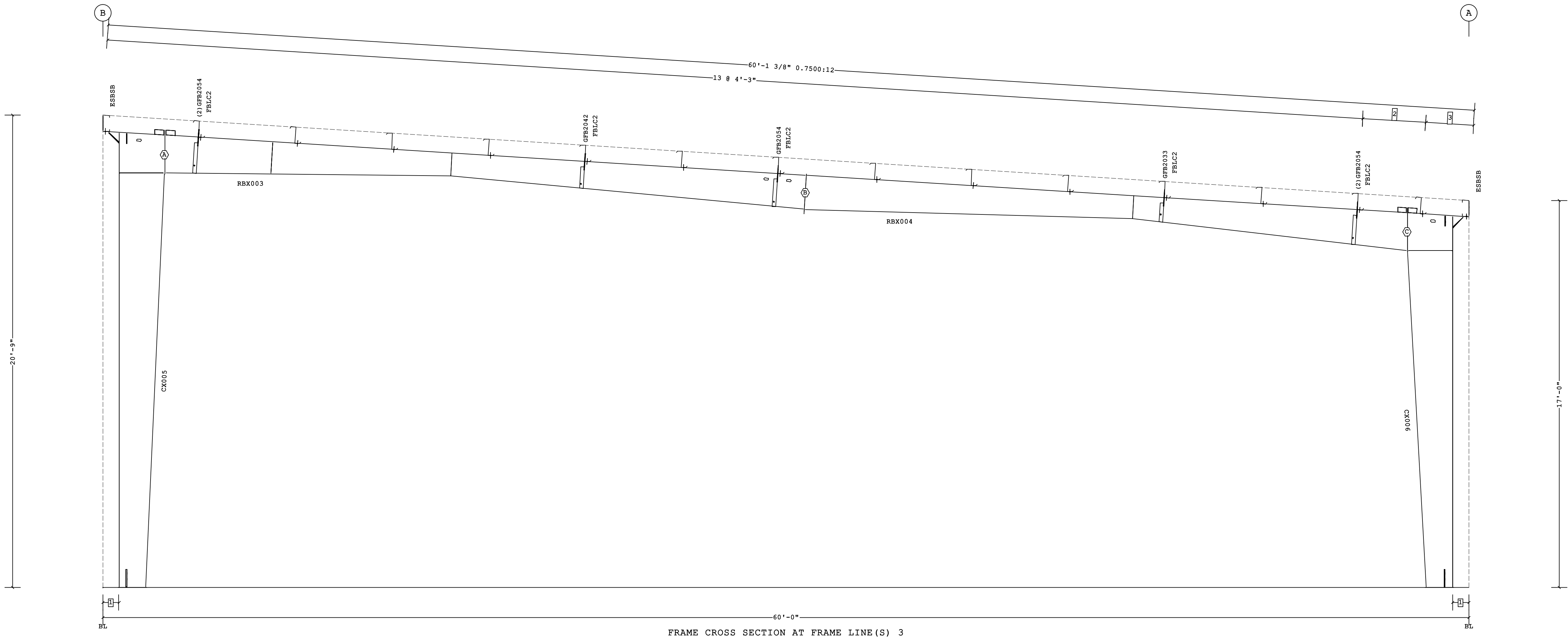
PERMIT SET- For Building Dept. Approval

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.	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.	<div><div>D</div><div>VP Buildings</div><div>3200 Players Club Circle Memphis TN 38125</div></div> <table><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> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td colspan="4">NTS</td></tr></table> <div>2/12/202415:38:42</div>	REV	DATE	BY	DESCRIPTION													NTS				<div>FRAME CROSS SECTION AT FRAME LINE(S) 2</div> <table><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 - 60x80</td></tr><tr><td>BUILDERS PC#</td><td>23068 - 60x80</td></tr><tr><td>VPC VERSION:</td><td>2023.4a</td></tr></table> <div>FILENAME: Duke Energy - Bucket-Line-Lowboy Covered Shelters</div>	BUILDER	Lemartec Corporation	CUSTOMER	Duke Energy	LOCATION	Dunn, North Carolina	PROJECT	Duke Energy Dunn Operations Center - 60x80	BUILDERS PC#	23068 - 60x80	VPC VERSION:	2023.4a	<div><div><div>VP BUILDINGS</div><div>VARCO PRUDEN</div><div>A BlueScope Steel Company</div></div><div>02/13/2024</div></div> <table><tr><td>JOBNO</td><td>23-015996-01</td></tr><tr><td>DATE</td><td>02/13/2024</td></tr><tr><td>DRAWN/CHECK</td><td>MB WJC</td></tr><tr><td>PAGE</td><td>9</td></tr></table>	JOBNO	23-015996-01	DATE	02/13/2024	DRAWN/CHECK	MB WJC	PAGE	9
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PAGE	9																																												

Frame Member Schedule							
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth
CX005	1	8.0000	.5000	.1644	1'-2"	2'-0"	19'-11 15/16"
RBX003	2	6.0000	.6250	.1644	1'-8"	1'-0"	28'-2 3/4"
	3	6.0000	.3750	.1345	1'-0"	1'-6"	
RBX004	4	6.0000	.5000	.1345	1'-6"	1'-0"	26'-6 9/16"
	5	6.0000	.5000	.1644	1'-0"	1'-8"	
CX006	6	8.0000	.5000	.1644	1'-2"	2'-0"	16'-5 7/16"
							Approx.Weight
							855#
							810#
							771#
							710#

Bolt Connection & Plate Schedule								
Id	Qty	Grade	Bolt	Plate	Rows	Rows	PartNo	
			Dia.	Length	Thick.	Out		In
A	12	A325	3/4"	2 1/2"	5/8"	4	2	0097284
B	6	A325	3/4"	2 1/2"	1/2"	1	2	0097284
C	10	A325	3/4"	2 1/2"	1/2"	4	1	0097284

Frame Clearances  
Horiz. Clearance between members 1 (CX005) and 6 (CX006): 54'-7"  
Vert. Clearance at member 1 (CX005): 18'-1 15/16"  
Vert. Clearance at member 6 (CX006): 14'-9"  
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 3 2'-1 3/16"
- 2 2'-9 3/16"
- 1 8 1/2"

Dimension Key

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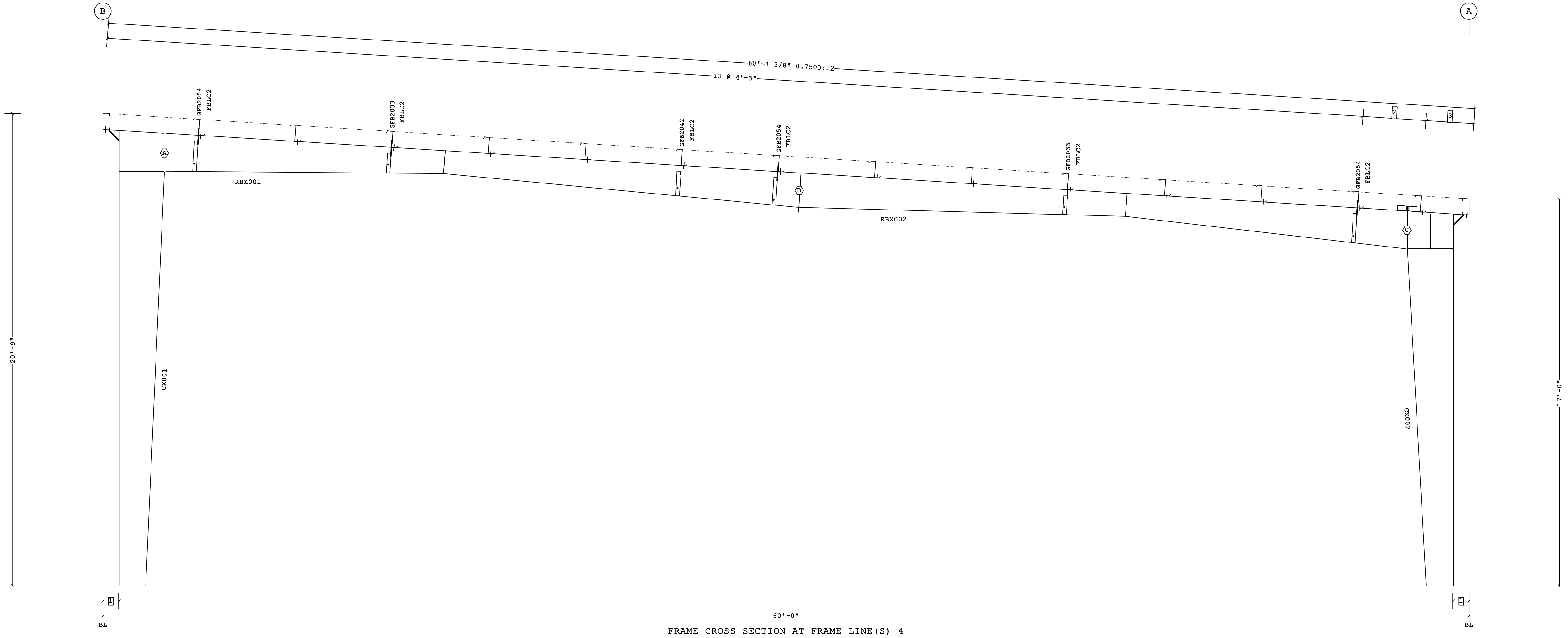
**VP BUILDINGS**  
VARCO PRUDEN  
A BlueScope Steel Company  
VPC VERSION: 2023.4a

**ENGINEER**  
JASON CLYMER  
02/13/2024

PERMIT SET- For Building Dept. Approval

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				REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation	<div><div><div></div></div><div>VP BUILDINGS</div><div>VARCO PRUDEN</div></div> <div>A BlueScope Steel Company</div> <div>VPC VERSION: 2023.4a</div>	JOBNO	23-015996-01
								CUSTOMER	Duke Energy		DATE	02/13/2024
								LOCATION	Dunn, North Carolina		DRAWN/CHECK	MB WJC
								PROJECT	Duke Energy Dunn Operations Center - 60x80		PAGE	10
								BUILDERS PO#	23068 - 60x80			
				NTS								

Frame Member Schedule								Bolt Connection & Plate Schedule										Frame Clearances	
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
CX001	1	8.0000	.3750	.1345	1'-2"	2'-0"	19'-11 15/16"	647#											
RBX001	2	5.0000	.3750	.1644	1'-8"	1'-0"	27'-11 3/4"	539#	A	8	A325	3/4"	2 1/2"	1/2"	3	1	0097284		Horiz. Clearance between members 1 (CX001) and 6 (CX002): 54'-7"
	3	5.0000	.1875	.1875	1'-0"	1'-6"			B	6	A325	3/4"	2 1/2"	3/8"	1	2	0097284		Vert. Clearance at member 1 (CX001): 18'-1 15/16"
RBX002	4	5.0000	.2500	.1644	1'-6"	1'-0"	26'-9 7/16"	485#	C	8	A325	3/4"	2 1/2"	3/8"	3	1	0097284		Vert. Clearance at member 6 (CX002): 14'-9"
	5	5.0000	.3125	.1345	1'-0"	1'-8"													Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)
CX002	6	8.0000	.2500	.1345	1'-2"	2'-0"	16'-5 1/2"	422#											



- 3 2'-1 3/16"
- 2 2'-9 3/16"
- 1 8 1/2"
- ☐ Dimension Key

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NORTH CAROLINA  
STATE ENGINEER'S SEAL  
040258  
ENGINEER  
JASON CLYMER  
02/13/2024

Dimension Key

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D

REV

DATE

BY

DESCRIPTION

Frame Member Schedule								Bolt Connection & Plate Schedule										Frame Clearances	
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo	Horiz. Clearance between members 1 (CX009) and 4 (CX010):	23'-5"
CX009	1	8.0000	.2500	.1345	1'-7"	1'-7"	19'-4 13/16"	458#										Vert. Clearance at member 1 (CX009):	17'-9 3/16"
RBX006	2-3	8.0000	.2500	.1345	1'-6"	1'-6"	23'-4 3/4"	549#	A	20	A325	3/4"	2 1/2"	3/8"	4	4	0097284	Vert. Clearance at member 4 (CX010):	17'-9 3/16"
CX010	4	8.0000	.2500	.1345	1'-7"	1'-7"	19'-4 13/16"	458#										Finished Floor Elevation =	100'-0" (Unless Noted Otherwise)



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

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**VP BUILDINGS**  
VARCO PRUDEN  
A BlueScope Steel Company  
VPC VERSION: 2023.4a

**ENGINEER**  
JASON CLYMER  
040258  
02/13/2024

Dimension Key

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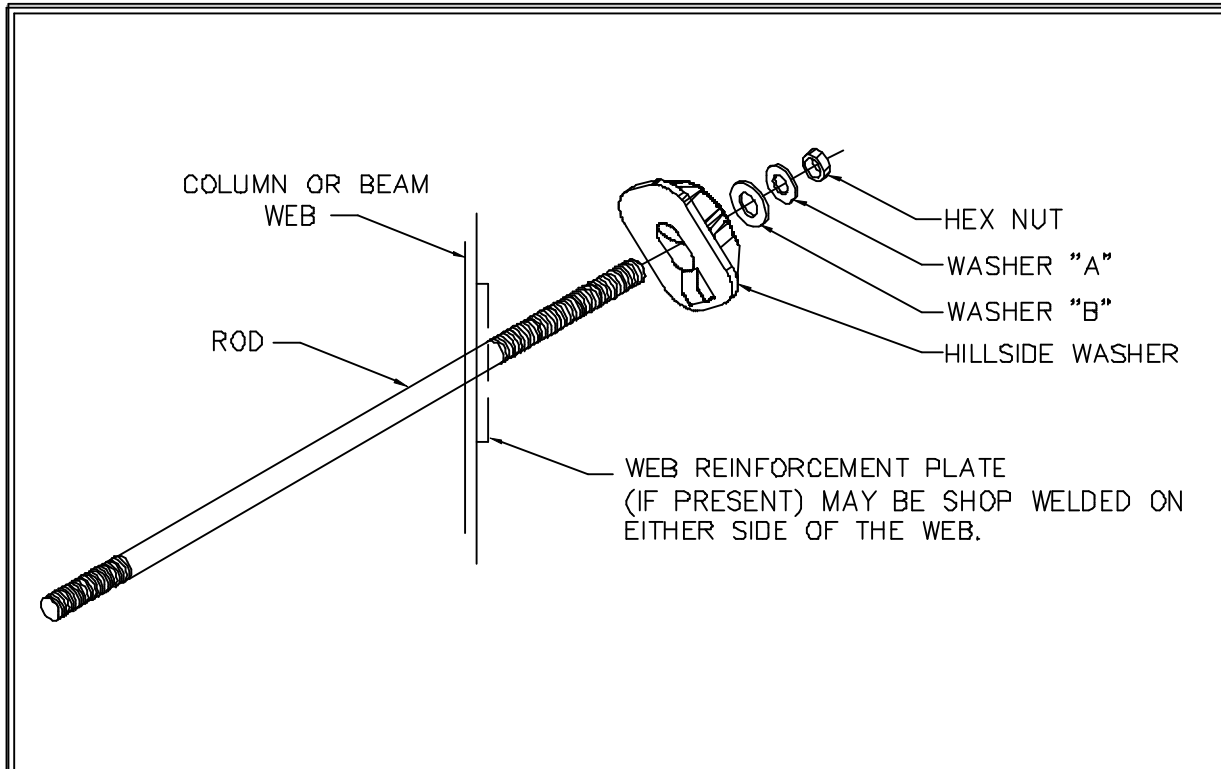
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REV

DATE

BY

DESCRIPTION



COLUMN OR BEAM WEB

ROD

HEX NUT

WASHER "A"

WASHER "B"

HILLSIDE WASHER

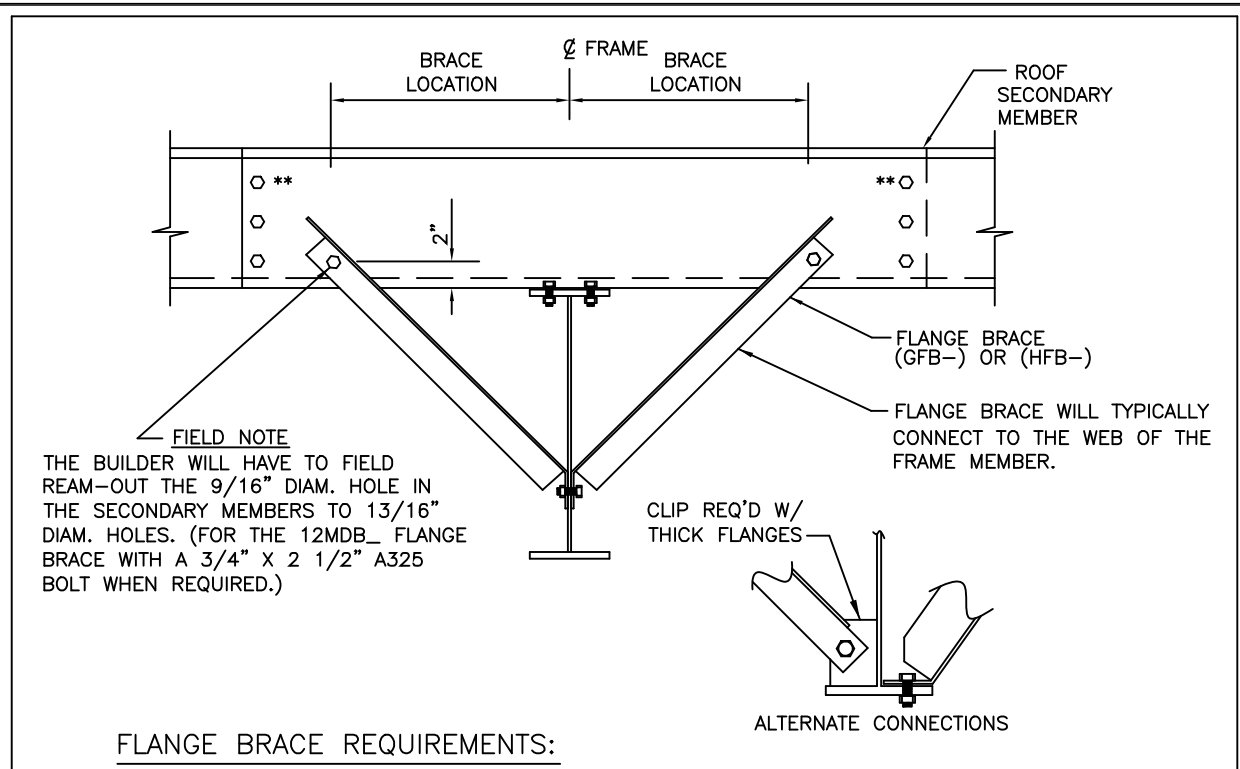
WEB REINFORCEMENT PLATE (IF PRESENT) MAY BE SHOP WELDED ON EITHER SIDE OF THE WEB.

DESCRIPTION/PART NO				
ROD DIAM	NUT	HARD STEEL ROUND WASHER A	HARD STEEL WASHER B	HILLSIDE WASHER
3/8"	95321	3/8" FLAT WASHER (96408)	1/2" BEVEL SQUARE WASHER (46040)	
1/2"	95230	1/2" FLAT WASHER (95872)	3/4" FLAT ROUND WASHER (95948)	543334
5/8"	95233	5/8" FLAT WASHER (95945)		
3/4"	95235	3/4" FLAT WASHER (95946)	1" FLAT ROUND WASHER (95948)	543335
7/8"	95237	7/8" FLAT WASHER (95947)		
1"	95238	1" FLAT WASHER (95948)	1 1/8" FLAT ROUND WASHER (95949)	543336
1 1/8"	95239	1 1/8" FLAT WASHER (95949)		

REV. DATE:08/02/17 | REV. NO. 04

BR01G2

ROD BRACE WEB SLOT ASSEMBLY



BRACE LOCATION

FRAME LOCATION

ROOF SECONDARY MEMBER

FLANGE BRACE (GFB-) OR (HFB-)

FLANGE BRACE WILL TYPICALLY CONNECT TO THE WEB OF THE FRAME MEMBER.

FIELD NOTE: THE BUILDER WILL HAVE TO FIELD REAM-OUT THE 9/16" DIAM. HOLE IN THE SECONDARY MEMBERS TO 13/16" DIAM. HOLES. (FOR THE 12MOB FLANGE BRACE WITH A 3/4" X 2 1/2" A325 BOLT WHEN REQUIRED.)

CLIP REQ'D W/ THICK FLANGES

ALTERNATE CONNECTIONS

FLANGE BRACE REQUIREMENTS:

RULE#1- ALL FLANGE BRACES ON CROSS SECTIONS MUST BE INSTALLED.

RULE#2- SINGLE FLANGE BRACES ARE REQUIRED WHEN PART MARK ON CROSS SECTION IS NOT ACCOMPANIED BY (2).

RULE#3- FLANGE BRACES ARE REQUIRED BOTH SIDES OF THE FRAME WEB WHEN PART MARK IS ACCOMPANIED BY (2).

RULE#4- WHENEVER POSSIBLE, PLACE SINGLE BRACES TOWARD THE CENTER OF THE BUILDING.

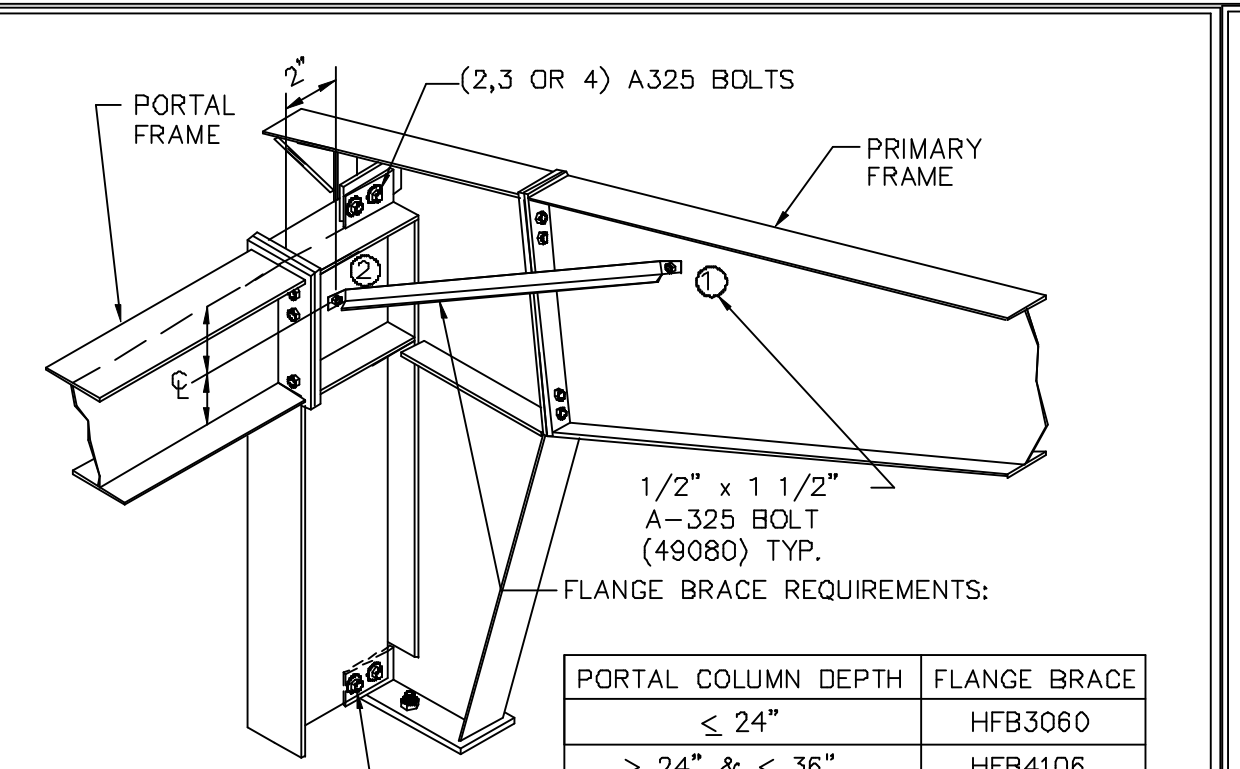
RULE#5- WHENEVER POSSIBLE, PLACE ALL SINGLE BRACES ON THE SAME SIDE OF THE FRAME WEB.

\*\* 10" & 11 1/2" PURLINS REQUIRE 3 BOLTS AT EACH END OF PURLIN LAP.

REV. DATE:05/08/18 | REV. NO. 02

BR06AE

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



PORTAL FRAME

PRIMARY FRAME

FLANGE BRACE REQUIREMENTS:

PORTAL COLUMN DEPTH	FLANGE BRACE
≤ 24"	HFB3060
> 24" & ≤ 36"	HFB4106
> 36"	HFB6032

NOTES:

① FIELD DRILL 9/16" HOLES IN PRIMARY AND PORTAL FRAME WEBS FOR FLANGE BRACE CONNECTIONS.

② DRILL 9/16" HOLE IN PORTAL FRAME COLUMN WEB APPROX. 2" FROM BOLTING PLATE @ BEAM C.

REV. DATE:03/17/18 | REV. NO. 03

BR12K1

FLUSH PORTAL FRAME CONNECTION  
FLANGE BRACE CONNECTION AND LOCATION

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 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 8 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 = CLEVS 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:06/28/12 | REV. NO. 01

EN50B1

MARK NUMBER KEY  
COMMON GENERATED MARK NUMBERS

BASIC ERECTION GUIDE REQUIRED FOR THIS PROJECT:

REFER TO:

VARCO PRUDEN BUILDINGS

BASIC ERECTION GUIDE

The Field Guide for correctly storing and erecting Varco Pruden Metal Building Systems

BACK COVER: 4001 BASIC ERECTION GUIDE

REV. DATE:01/30/14 | REV. NO. 00

ENV002

BASIC ERECTION GUIDE – STRUCTURAL

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  
3200 Players Club Circle Memphis TN 38125

REV DATE BY DESCRIPTION

NTS

2/12/2024 SEDSheet 15:38:47

PRIMARY BRACING SED'S

BUILDER Lemartec Corporation


CUSTOMER Duke Energy

LOCATION Dunn, North Carolina

PROJECT Duke Energy Dunn Operations Center - 60x80

BUILDERS PO# 23068 - 60x80

VP VERSION: 2023.4a



VP BUILDINGS  
VARCO PRUDEN  
A BlueScope Steel Company

JOBNO 23-015996-01

DATE 02/13/2024

DRAWN/CHECK MB WJC

PAGE 13

FILENAME: Duke Energy - Bucket-Line-Lowboy Covered Shelters

PERMIT SET- For Building Dept. Approval

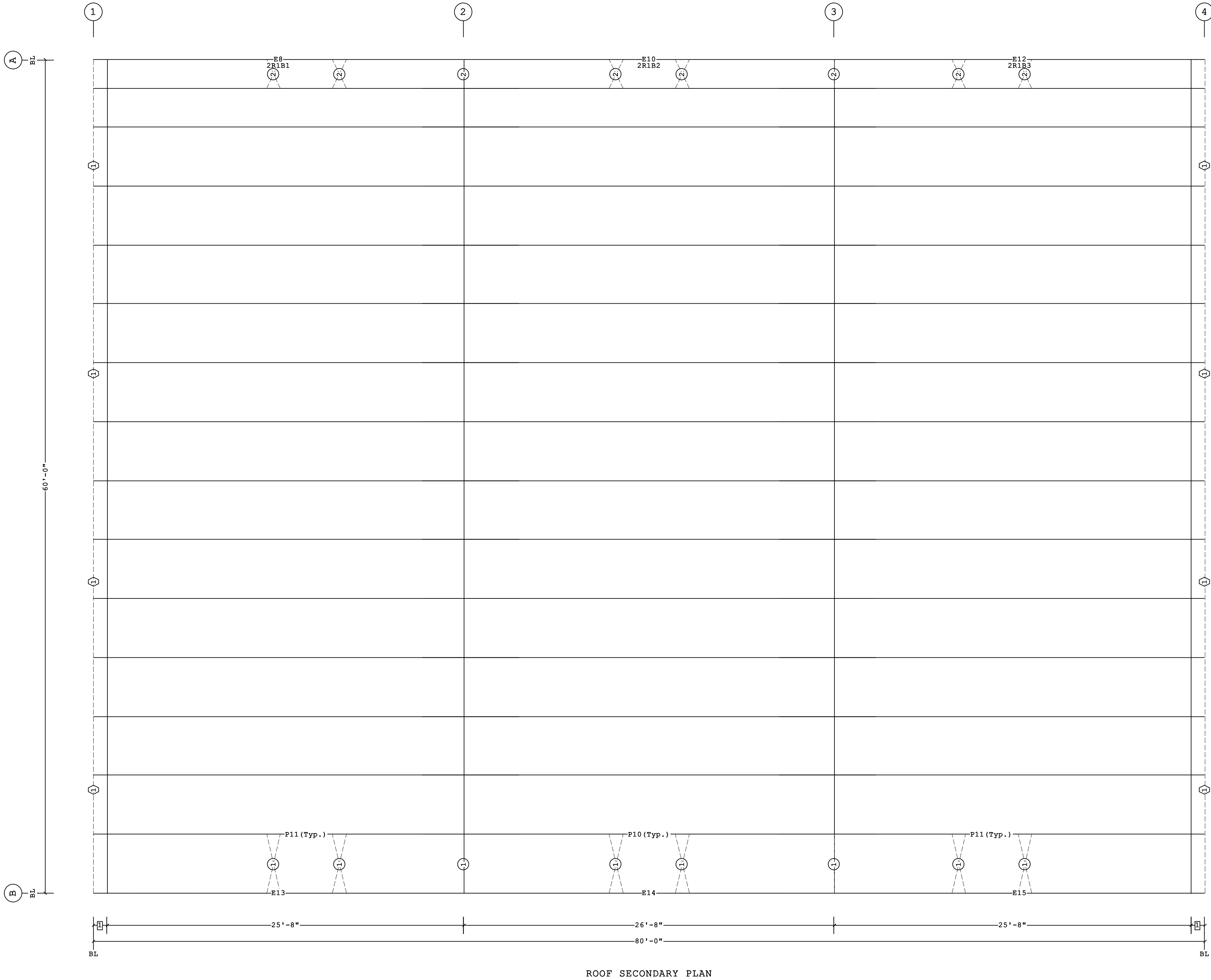
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02/13/2024

Secondary Part Schedule					
Mark	Part	Thick.	Depth	Lap	Detail
E10	08E2607417DDB01	0.0600	8 1/2"		RS12PA
E12	00208ES2607417B01	0.0600	8 1/2"		RS12PH,RS12PA
E13	00108HS2607414B01	0.0790	8 1/2"		BR09W2,BR09Y2
E14	08H2607414DDB01	0.0790	8 1/2"		BR09W2,BR09Y2
E15	00208HS2607414B01	0.0790	8 1/2"		BR09W2,BR09Y2
E8	00108ES2607417B01	0.0600	8 1/2"		RS12PH,RS12PA
P10	08Z320741644B0	0.0680	8 1/2"	2'-10 1/2"	RS01T1
P11	08Z3007414A5B0	0.0790	8 1/2"	3'-10 1/2"	RS02T1,RS01T1

Secondary Bracing Schedule			
Id	Qty	Mark No	Spacing
1	14	PBA0406 (Typ.)	4'-3"
2	14	PBA0205	2'-1 3/16"
See SED:			
BR09K5, BR09JG, BR09RY, BR09RZ, BR09K2			

Part Mark Key  
1 RCHB15



1 1'-0"  
Dimension Key

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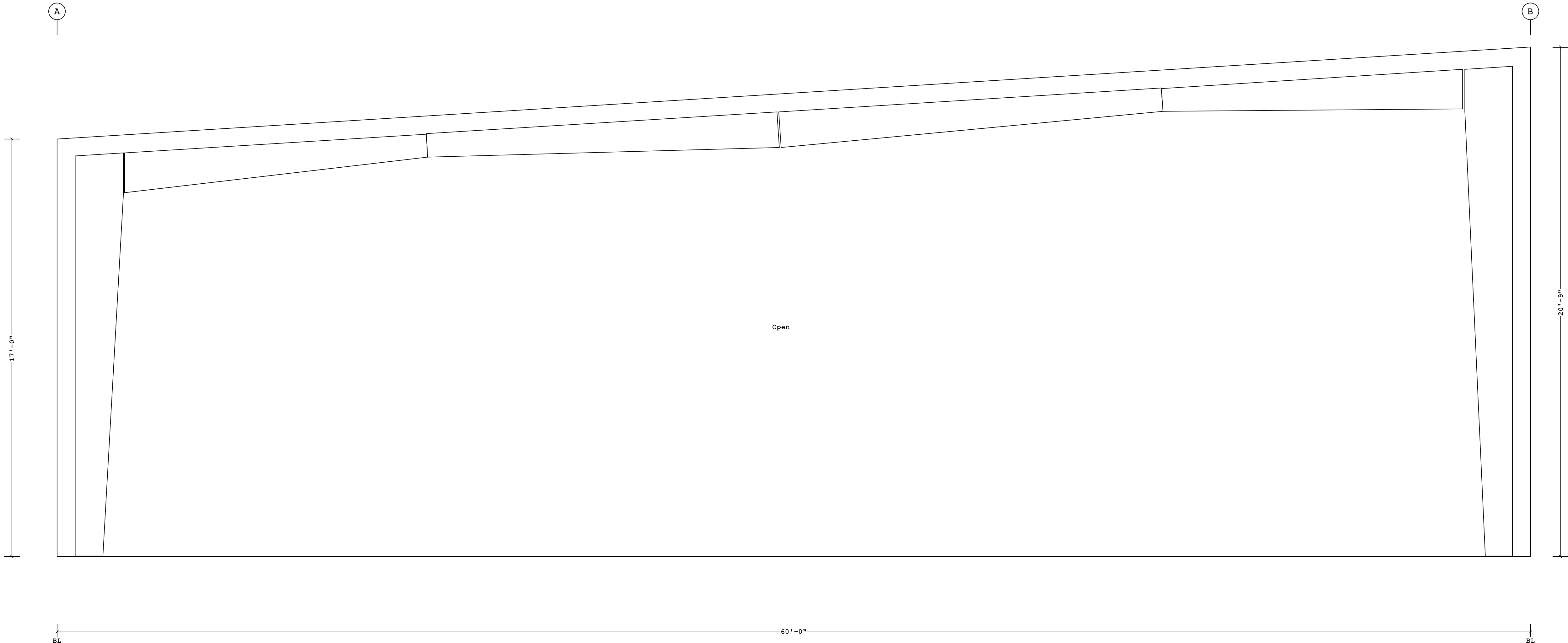


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				BUILDER Lemartec Corporation	JOBNO 23-015996-01
				CUSTOMER Duke Energy	DATE 02/13/2024
				LOCATION Dunn, North Carolina	DRAWN/CHECK MB WJC
				PROJECT Duke Energy Dunn Operations Center - 60x80	PAGE 14
				BUILDERS PO# 23068 - 60x80	VPC VERSION: 2023.4a
				NTS	FILENAME: Duke Energy - Bucket-Line-Lowboy Covered Shelters
				2/12/2024	15:38:49








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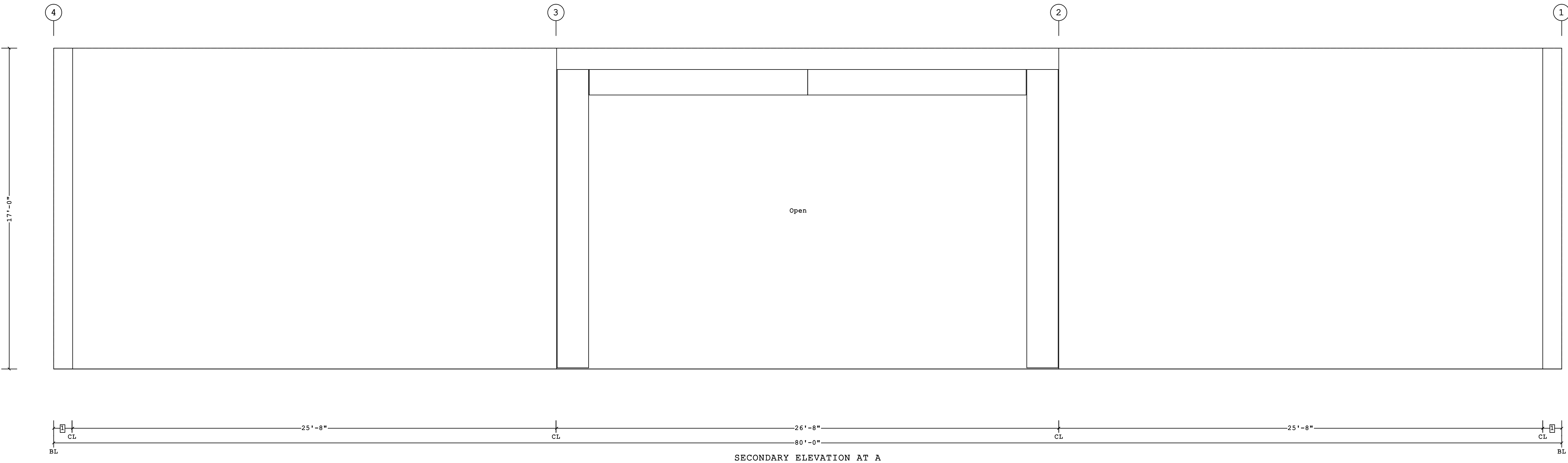
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			REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation		<div><div>VP BUILDINGS VARCO PRUDEN A BlueScope Steel Company VPC VERSION: 2023.4a</div></div>	JOBNO	23-015996-01
							CUSTOMER	Duke Energy			DATE	02/13/2024
							LOCATION	Dunn, North Carolina			DRAWN/CHECK	MB WJC
							PROJECT	Duke Energy Dunn Operations Center - 60x80			PAGE	17
			NTS				BUILDERS PO#	23068 - 60x80				

2/12/2024

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1'-0"

☐ Dimension Key

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Shape Name = BUCKET/LINE/LOWBOY, Wall = 2

D

REV	DATE	BY	DESCRIPTION
NTS			

VP Buildings

3200 Players Club Circle Memphis TN 38125

SECONDARY ELEVATION AT A

BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - 60x80
BUILDERS PO#	23068 - 60x80

VP BUILDINGS

VARCO PRUDEN

A BlueScope Steel Company

VPC VERSION: 2023.4a

VP BUILDINGS

VARCO PRUDEN

A BlueScope Steel Company

VPC VERSION: 2023.4a

VP BUILDINGS

VARCO PRUDEN

A BlueScope Steel Company

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JOBN0

23-015996-01

DATE

02/13/2024

DRAWN/CHECK

MB WJC

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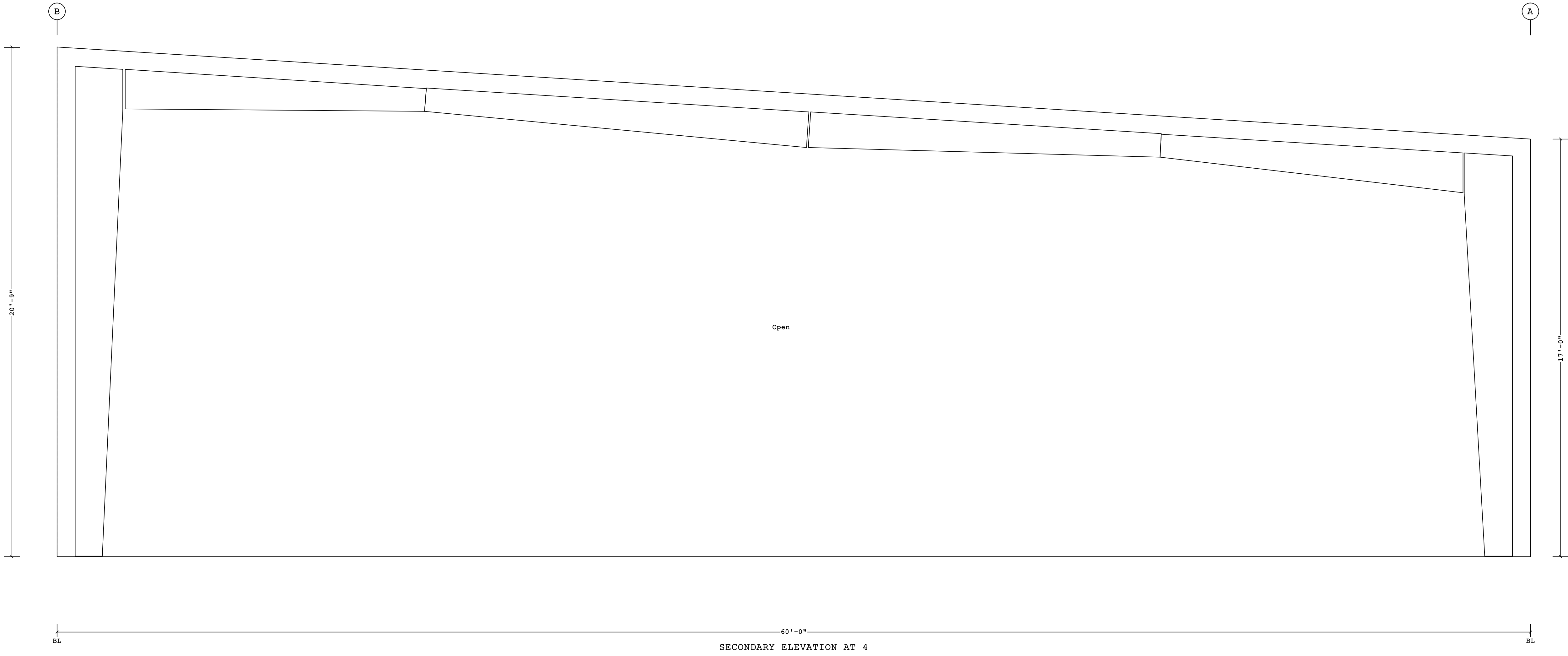
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FILENAME:

Duke Energy - Bucket-Line-Lowboy Covered Shelters

2/12/2024

15:38:55



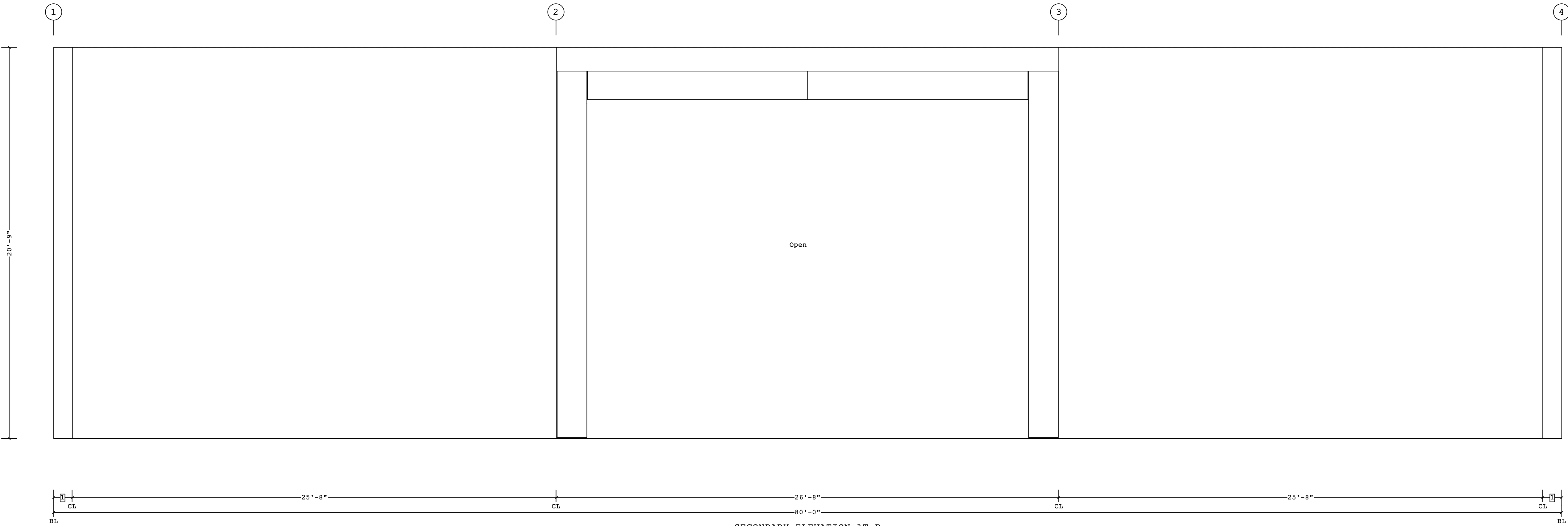
SECONDARY ELEVATION AT 4

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				REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation		<div><div><div></div><div>VP BUILDINGS</div><div>VARCO PRUDEN</div></div><div>A BlueScope Steel Company</div><div>VPC VERSION: 2023.4a</div></div>	JOBNO 23-015996-01	
								CUSTOMER	Duke Energy				DATE 02/13/2024
								LOCATION	Dunn, North Carolina				DRAWN/CHECK MB WJC
								PROJECT	Duke Energy Dunn Operations Center - 60x80				PAGE 19
								BUILDERS PO#	23068 - 60x80				
				NTS									



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1 1'-0"  
Dimension Key

PERMIT SET- For Building Dept. Approval

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.			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.			VP Buildings 3200 Players Club Circle Memphis TN 38125			SECONDARY ELEVATION AT B		
REV			DATE			BY			DESCRIPTION			BUILDER Lemartec Corporation		
												CUSTOMER Duke Energy		
												LOCATION Dunn, North Carolina		
												PROJECT Duke Energy Dunn Operations Center - 60x80		
												BUILDERS PO# 23068 - 60x80		
									NTS			VPC VERSION: 2023.4a		
												FILENAME: Duke Energy - Bucket-Line-Lowboy Covered Shelters		



JOBNO 23-015996-01
DATE 02/13/2024
DRAWN/CHECK MB WJC
PAGE 20





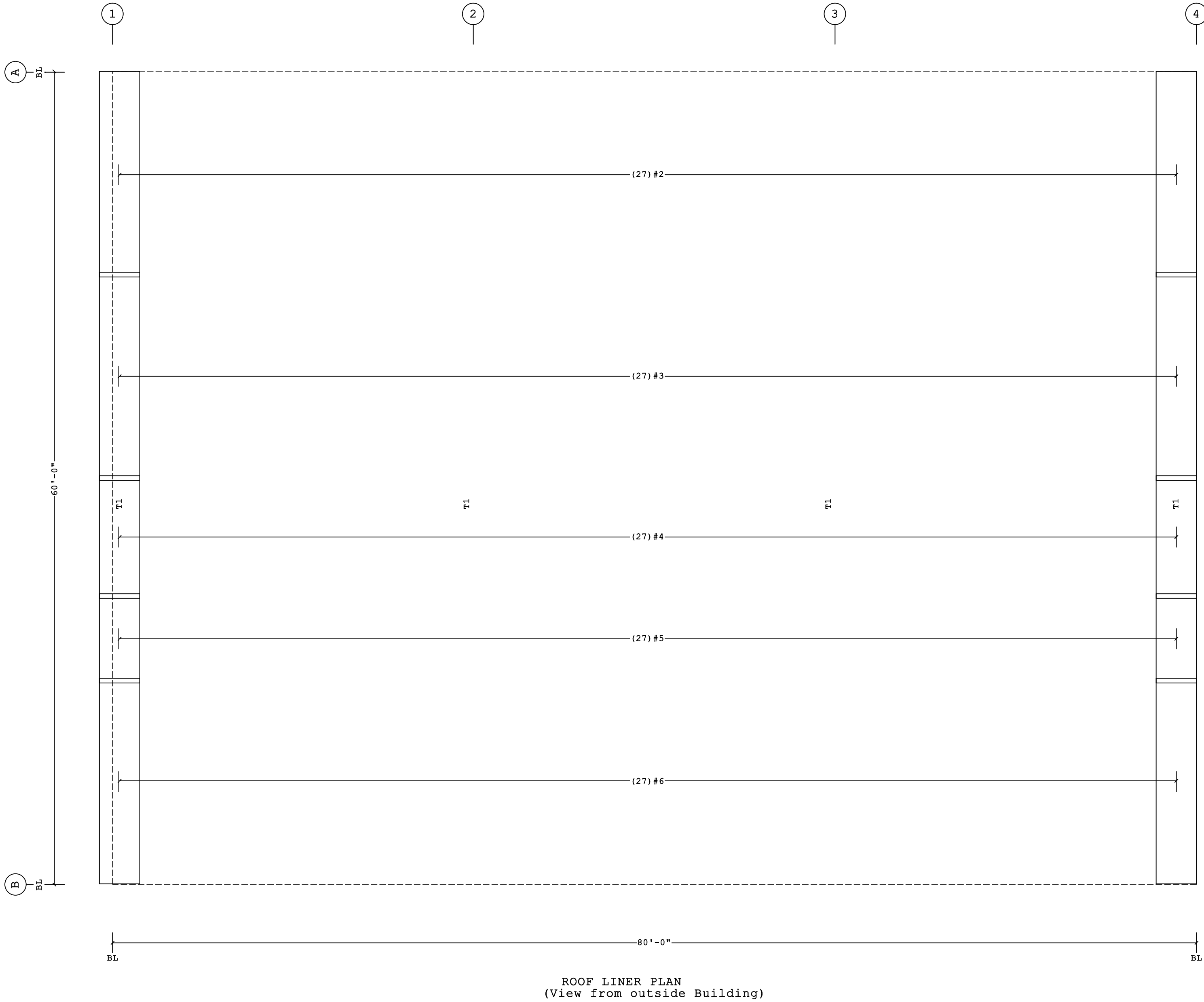
Liner/Soffit Schedule						
Id	Qty	Type	Length	Gage	OP	Finish Color
#2	27	DLN	15'-2 3/8"	26	1	K OW
#3	27	DLN	15'-4"	26	2	K OW
#4	27	DLN	9'-1"	26	2	K OW
#5	27	DLN	6'-7"	26	2	K OW
#6	27	DLN	15'-2"	26	2	K OW
Oper. Code:1=SQ,SQ						
Oper. Code:2=SQ,SQ						
Finish:K=KXL (Kynar)						
Color:OW=Cool Cotton White						

Cut

Liner Trim Schedule	
Id	Parts
T1	(11)LPJT

Color  
Match Roof Color

Details  
WLV015




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02/13/2024

PERMIT SET- For Building Dept. Approval

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.	D		VP Buildings 3200 Players Club Circle Memphis TN 38125		ROOF LINER PLAN					
			REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation	 <div>VP BUILDINGS VARCO PRUDEN</div> <div>A BlueScope Steel Company VPC VERSION: 2023.4a</div>	JOBNO	23-015996-01	
							CUSTOMER	Duke Energy		DATE	02/13/2024	
							LOCATION	Dunn, North Carolina		DRAWN/CHECK	MB WJC	
							PROJECT	Duke Energy Dunn Operations Center - 60x80				
								BUILDERS PO#	23068 - 60x80			
			NTS									

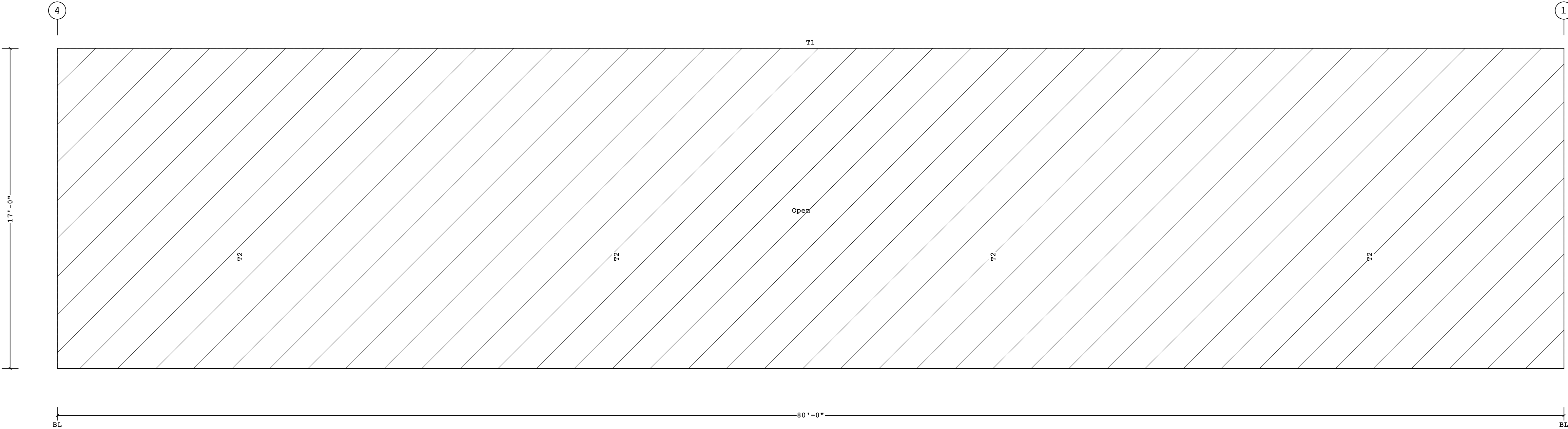
2/12/2024

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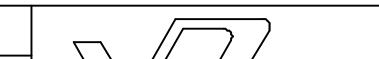
Trim Schedule		Color	Details
Id	Parts		
T1	(8) 1SF21, (4) EG201, (28) STR2	Cool Zinc Gray	RC03B1, RC04B1, RC39A2, RC61B6, RCV047, RCV324
T2	(2) 5CE45, 5CE75, (2) CP510, DN1, (4) DST1	Cool Zinc Gray	RC38R2

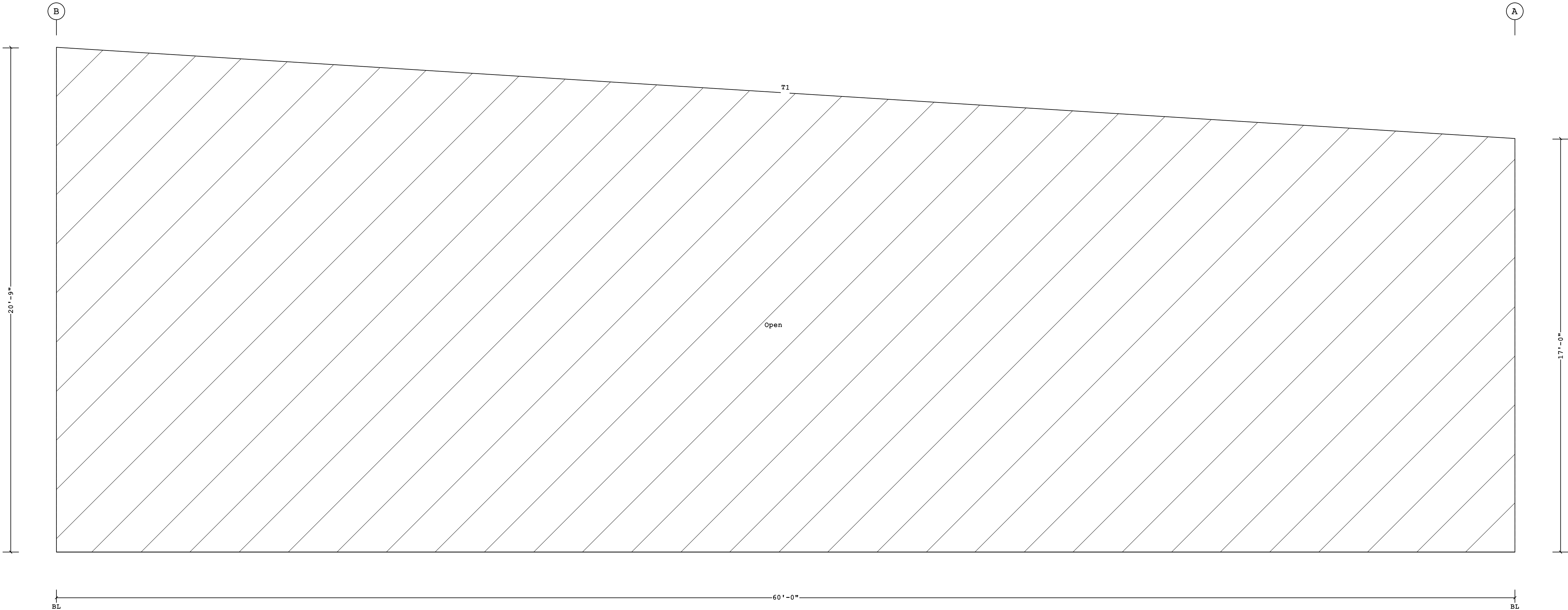


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PERMIT SET- For Building Dept. Approval

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.			D	VP Buildings		COVERING ELEVATION AT A							
		3200 Players Club Circle Memphis TN 38125				REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation		 <div>VP BUILDINGS VARCO PRUDEN</div>	JOBNO	23-015996-01
		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.								CUSTOMER	Duke Energy			DATE	02/13/2024
										LOCATION	Dunn, North Carolina			DRAWN/CHECK	MB WJC
										PROJECT	Duke Energy Dunn Operations Center - 60x80			PAGE	25
			NTS			BUILDERS PO#	23068 - 60x80		A BlueScope Steel Company VPC VERSION: 2023.4a						




COVERING ELEVATION AT 4

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**VP BUILDINGS**  
VARCO PRUDEN  
A BlueScope Steel Company  
VPC VERSION: 2023.4a

**ENGINEER'S SEAL**  
040258  
JASON CLYMER  
02/13/2024

PERMIT SET- For Building Dept. Approval

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		D				VP Buildings 3200 Players Club Circle Memphis TN 38125				COVERING ELEVATION AT 4			
		REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation			 VP BUILDINGS VARCO PRUDEN A BlueScope Steel Company VPC VERSION: 2023.4a	JOBNO	23-015996-01	
						CUSTOMER	Duke Energy				DATE	02/13/2024	
						LOCATION	Dunn, North Carolina				DRAWN/CHECK	MB WJC	
						PROJECT	Duke Energy Dunn Operations Center - 60x80				PAGE	26	
NTS				BUILDERS PO# 23068 - 60x80									

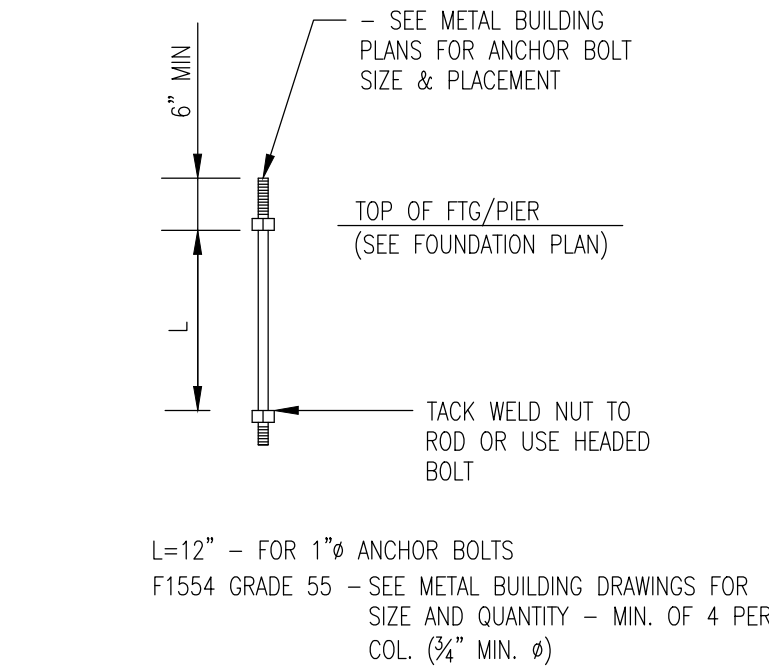






STRUCTURAL ABBREVIATIONS

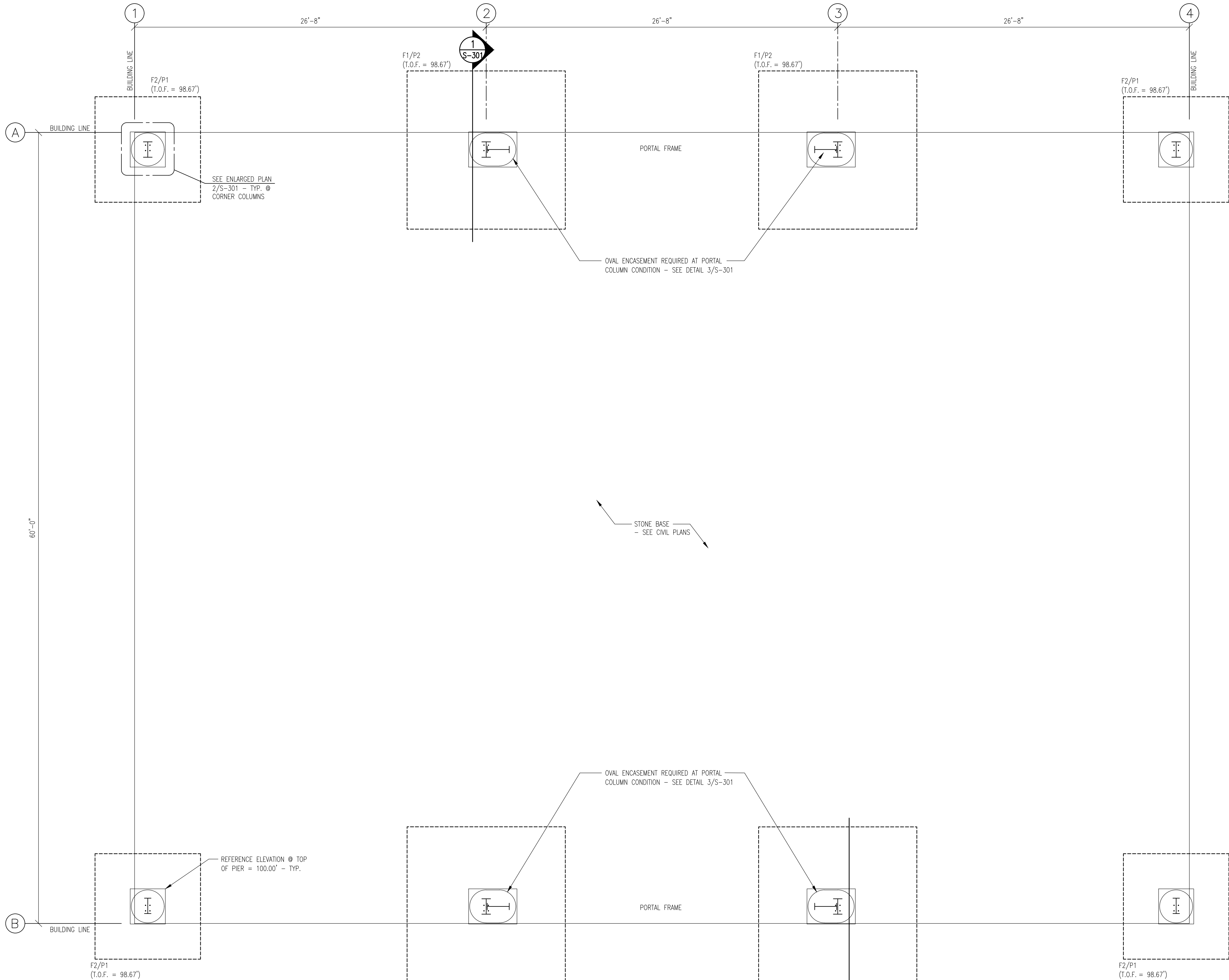
Ø = AT  
A.B. = ANCHOR BOLTS  
ABC = AGGREGATE BASE COARSE  
A.E.F.F.E. = ABOVE EXISTING FINISHED FLOOR ELEVATION  
A.F.F.E. = ABOVE FINISHED FLOOR ELEVATION  
A.R.F.F.E. = ABOVE REFERENCED FINISHED FLOOR ELEVATION  
ALT. = ALTERNATE  
ARCH. = ARCHITECTURAL  
B.F.F.E. = BELOW FINISHED FLOOR ELEVATION  
B.M.B.M. = BY METAL BUILDING MANUFACTURE  
B.R.F.F.E. = BELOW REFERENCED FINISHED FLOOR ELEVATION  
BLDG. = BUILDING  
BOT. = BOTTOM  
B.O.W. = BOTTOM OF WALL  
BRG. = BEARING  
C.J. = CONSTRUCTION/CONTROL JOINT  
CL. = CENTER LINE  
CLR. = CLEAR  
CMU = CONCRETE MASONRY UNIT  
COL. = COLUMN  
CONC. = CONCRETE  
CONN. = CONNECTION  
CONST. = CONSTRUCTION  
CONT. = CONTINUOUS  
COORD. = COORDINATE  
DET. = DETAIL  
DIA. = DIAMETER  
DIM. = DIMENSION  
DWGS. = DRAWINGS  
DWL. = DOWEL  
E.A. = EACH  
E.F.F.E. = EXISTING FINISHED FLOOR ELEVATION  
E.J. = EXPANSION JOINT  
ELEV. = ELEVATION  
E.W. = EACH WAY  
EXP. = EXPANSION  
EXIST. = EXISTING  
EXT. = EXTENSION  
FLR. = FLOOR  
FD = FLOOR DRAIN  
FND. = FOUNDATION  
FP = FULL PENETRATION  
FTG. = FOOTING  
HK. = HOOK  
HORIZ. = HORIZONTAL  
HSS = HOLLOW STRUCTURAL SECTION (TUBE OR PIPE)  
INT. = INTERIOR  
JT. = JOINT  
K = KIP (1000 lbs)  
LLH = LONG LEG HORIZONTAL  
LLV = LONG LEG VERTICAL  
MANUF. = MANUFACTURER  
MAS. = MASONRY  
MAX. = MAXIMUM  
MECH. = MECHANICAL  
MIN. = MINIMUM  
NOM. = NOMINAL  
O.C. = ON CENTER SPACING  
OPNG. = OPENING  
PC. = PRECAST  
PL. = PLATE  
REINF. = REINFORCEMENT  
REOD. = REQUIRED  
R.F.F.E. = REFERENCED FINISHED FLOOR ELEVATION  
SC. = SLIP CRITICAL  
SCHD. = SCHEDULE  
SECT. = SECTION  
T&B = TOP AND BOTTOM  
T.O.F. = TOP OF FOOTING  
T.O.P. = TOP OF PIER  
T.O.S. = TOP OF STEEL  
T.O.W. = TOP OF WALL  
TYP. = TYPICAL  
U.N.O. = UNLESS NOTED OTHERWISE  
VERT. = VERTICAL  
W = WIDE FLANGE MEMBER  
W/ = WITH  
WWF = WELDED WIRE FABRIC  
\* = COORD. WITH SITE PLAN



SECTION NO.  
TYPICAL

ANCHOR BOLT DETAIL

SCALE  
NO SCALE



FOUNDATION SCHEDULE		
MARK	SIZE	REINFORCEMENT
F1	12'-0"x12'-0"x3'-0"	24-#6 BARS E.W. BOT. & 9-#4 BARS E.W. TOP
F2	8'-0"x8'-0"x3'-0"	15-#6 BARS E.W. BOT. & 6-#4 BARS E.W. TOP

f'c = 3500psi

BUCKET/LINE/LOWBOY COVERED SHELTER FOUNDATION PLAN

SCALE: ¼" = 1'-0"

GENERAL NOTES - BUCKET/LINE/LOWBOY COVERED SHELTER FOUNDATION PLAN:

- SEE PLAN FOR T.O.F. ELEVATIONS. MAINTAIN A 12" MINIMUM OF COVER OVER ALL T.O.F.'s TYPICAL. GC SHALL COORDINATE ALL T.O.F./T.O.P. ELEVATIONS W/ SITE PLAN.
- GC SHOULD AVOID LEAVING OPEN TRENCH EXCAVATIONS FOR THE FOOTINGS FOR LONG PERIODS WHEN INCLEMENT WEATHER IS ANTICIPATED. IN GENERAL ALL EXCAVATIONS MADE SHOULD BE POURED ON THE DAY OF THE EXCAVATION IF INCLEMENT WEATHER IS EXPECTED.
- CONTRACTOR SHALL COORDINATE FOR LOCAL INSPECTING AUTHORITY TO REVIEW AND APPROVE ALL FOOTING TRENCHES PRIOR TO THE PLACEMENT OF ANY FOOTING CONCRETE. IF FOOTINGS FAIL INSPECTION CONTRACTOR SHALL CONTACT THE ENGINEER FOR RECOMMENDATIONS.
- FOUNDATION DESIGN BASED ON A SOIL BEARING PRESSURE OF 2500 PSF. SEE S&ME PROJECT NO. 22050344 FOR GEOTECHNICAL INFORMATION. ANY AREAS DETERMINED NOT TO PROVIDE THIS STATED SOIL BEARING PRESSURE SHALL BE BROUGHT TO THE ENGINEERS ATTENTION.
- FOUNDATION DESIGN BASED ON VARCO PRUDEN PRE-ENGINEERED METAL BUILDING DRAWINGS DATED 2-13-2024. IF REVISIONS ARE MADE TO THE REFERENCED PRE-ENGINEERED METAL BUILDING DRAWINGS, CONTACT ENGINEER FOR FOUNDATION DESIGN REVIEW.

University Commercial Center  
7900 North Point Blvd., Suite 209  
Winston-Salem, NC 27106

T: 336-593-9623  
F: 336-593-3912  
email: office@mepc-consultants.com

www.mepc-consultants.com

SEAL:

REVISIONS

PROGRESS REVIEW #1:	9-17-24
PROGRESS REVIEW #2:	
PROGRESS REVIEW #3:	
ISSUE FOR CONST.:	9-18-24
REVISION #1:	
REVISION #2:	
REVISION #3:	
REVISION #4:	

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PROJECT NAME:

DUKE ENERGY  
NEW BUCKET/LINE/LOWBOY  
COVERED SHELTER  
1269 JONESBORO RD  
DUNN, NORTH CAROLINA

SCALE: 1/4" = 1'-0"

FOUNDATION PLAN

MEPC PROJECT NO.:	115-24
DATE:	9-18-24
DESIGN BY:	JWM/PCC
DRAWN BY:	JBL
CHECKED BY:	JWM

S-101





1	2	3	4	5	6	7	8	9
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




E

D

C

B

A

LIGHTING FIXTURE SCHEDULE										
FIXTURE TYPE	MANUFACTURER AND CATALOG INFORMATION	LAMPS			DRIVER		TOTAL WATTS	DESCRIPTION	MOUNTING	
		QTY.	TYPE	WATTS	QTY.	TYPE				
 A	HIGH BAY FIXTURE, METALUX UHB LED SERIES OR APPROVED EQUAL.	—	LED 13627LUM 4000K	100W	1	DRIVER 0-10V	100W	HIGH BAY FIXTURE, METALUX UNIVERSAL VOLTAGE.	SUSPENDED	
 AE	SAME AS TYPE 'A' EXCEPT PROVIDE WITH EMERGENCY 90 MINUTE BATTERY PACK.									
 B	HIGH BAY FIXTURE, METALUX UHB LED SERIES ORR APPROVED EQUAL.	—	LED 19607LUM 5000K	147W	1	DRIVER 0-10V	147W	HIGH BAY FIXTURE, METALUX UHB LED SERIES, UNIVERSAL VOLTAGE.	SUSPENDED	
 BE	SAME AS TYPE 'B' EXCEPT PROVIDE WITH EMERGENCY 90 MINUTE BATTERY PACK.									
 C	EXTERIOR WALL PACK, COOPER LUMARK WP LED SERIES, OR APPROVED EQUAL.	—	LED 3500LUM 4000K	60W	1	DRIVER 0-10V	60W	LED WALL PACK LIGHT, COOPER LUMARK SERIES, UNIVERSAL VOLTAGE.	WALL	
 REM	RECESSED EMERGENCY FIXTURE, COOPER AEL2 SERIES, OR APPROVED EQUAL, PROVIDED WITH 90 MINUTE BATTERY PACK.	—	LED 3500LUM 4000K	5W	1	—	5W	EMERGENCY FIXTURE, UNIVERSAL VOLTAGE.	WALL	
 X	EMERGENCY EXIT FIXTURE, SURE LITE SERIES.	—	LED 3500LUM 4000K	5W	1	—	5W	EMERGENCY EXIT FIXTURE, UNIVERSAL VOLTAGE.	SUSPENDED	
LIGHT FIXTURE SCHEDULE NOTES:										
1. ALL FINISH TYPES SHOULD BE COORDINATED WITH THE ARCHITECT/INTERIOR DESIGNER(S).										
2. ALL TRIMS AND INSTALLATION REQUIREMENTS SHALL BE COORDINATED WITH THE CEILING TYPE IN WHICH IT IS TO BE INSTALLED. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT CEILING TYPE FOR WHICH THE FIXTURE IS TO BE INSTALLED.										
3. FIXTURE TYPES NOTED ON PLAN WITH SUFFIX 'E' INDICATES FIXTURE TO BE PROVIDED WITH 90 MINUTE MINIMUM BATTERY BACK-UP. (E.G. L1E, L2E, ETC...)										

NEW PANEL UB SECTION 1										
VOLTAGE: 120/208 3		AMP: MAIN: 200 MCB		10K AIC SE RATED NEMA 3R						
DESCRIPTION	KW	BKR	CK	PH	CK	BKR	KW	DESCRIPTION		
PANEL REC	0.18	20/1	1	A	2	20/1	0.3	EP-1		
REC	0.72	20/1	3	B	4	20/1	0.41	LTS INTERIOR		
NEMA 6-30R	1.2	30/2	5	C	6	20/1	0.4	OVERHEAD DOOR		
----	1.2	----	7	A	8	----	0	SPACE		
NEMA 6-30R	1.2	30/2	9	B	10	----	0	SPACE		
----	1.2	----	11	C	12	----	0	SPACE		
NEMA 6-30R	1.2	30/2	13	A	14	----	0	SPACE		
----	1.2	----	15	B	16	----	0	SPACE		
NEMA 6-30R	1.2	30/2	17	C	18	----	0	SPACE		
----	1.2	----	19	A	20	----	0	SPACE		
SPACE	0	----	21	B	22	----	0	SPACE		
SPACE	0	----	23	C	24	----	0	SPACE		
SPACE	0	----	25	A	26	----	0	SPACE		
SPACE	0	----	27	B	28	----	0	SPACE		
SPACE	0	----	29	C	30	----	0	SPACE		
SPACE	0	----	31	A	32	----	0	SPACE		
SPACE	0	----	33	B	34	----	0	SPACE		
SPACE	0	----	35	C	36	----	0	SPACE		
SPACE	0	----	37	A	38	----	0	SPACE		
SPACE	0	----	39	B	40	----	0	SPACE		
SPACE	0	----	41	C	42	----	0	SPACE		
A TOTAL	4.08						0.90	RECEPTACLES		
B TOTAL	3.53						0.00	HEATING		
C TOTAL	4.00						0.70	AC/MOTORS		
							0.41	LIGHTING		
							9.60	MISC.		
							0.00	WATER HEATERS		
							0.00	ELEVATORS		
							0.00	KITCHEN EQUIP		
CONN. KW	11.61									
CONN. Amps	32.23									

TOTAL DEMAND LOAD		
RECEPTS: 100% 1ST 10 KW + 50% REMAINING:	=	0.9 KVA
HEAT: 100% :	=	0 KVA
AC/MOTORS: 125% LARGEST + 100% REMAINING:	=	0.7 KVA
LIGHTING: 125%:	=	0.5125 KVA
MISC: 100%:	=	9.6 KVA
WATER HEATER: 125%:	=	0 KVA
ELEVATORS: PER NEC:	=	0 KVA
KITCHEN EQUIP: PER NEC :	=	0 KVA
TOTAL DEMAND LOAD KW:	=	11.7125 KVA
TOTAL DEMAND LOAD AMPS:	=	32.51 AMP

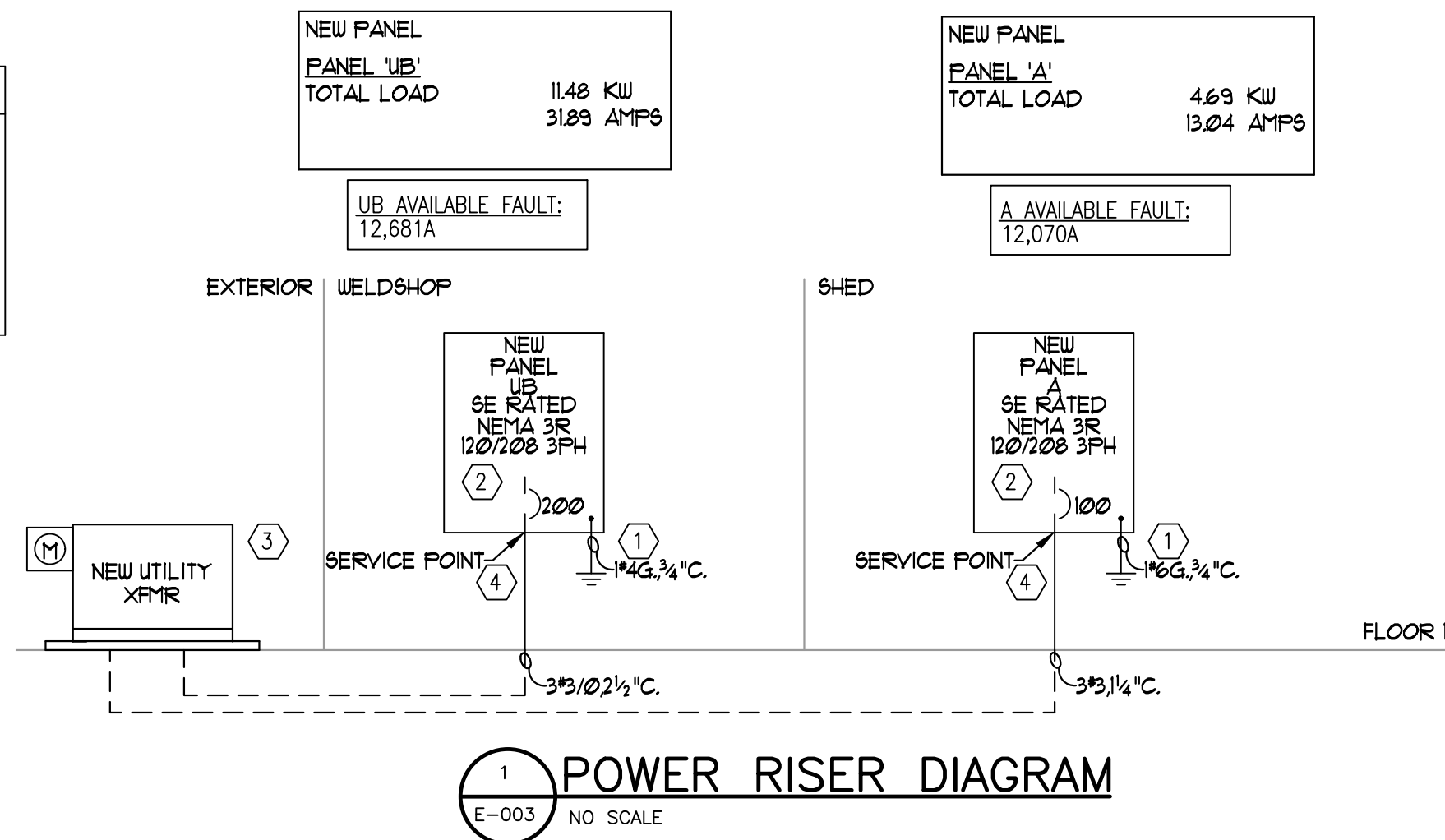
NEW PANEL A SECTION 1										
VOLTAGE: 120/208 3		AMP: MAIN: 100 MCB		10K AIC SE RATED NEMA 3R						
DESCRIPTION	KW	BKR	CK	PH	CK	BKR	KW	DESCRIPTION		
DED REC	0.18	20/1	1	A	2	20/1	0.88	LTS INTERIOR		
DED REC	0.18	20/1	3	B	4	20/1	0.88	LTS INTERIOR		
DED REC	0.36	20/1	5	C	6	20/1	0.36	LTS EXTERIOR		
DED REC	0.36	20/1	7	A	8	----	0	SPACE		
DED REC	0.36	20/1	9	B	10	----	0	SPACE		
DED REC	0.36	20/1	11	C	12	----	0	SPACE		
DED REC	0.18	20/1	13	A	14	----	0	SPACE		
DED REC	0.18	20/1	15	B	16	----	0	SPACE		
SPACE	0	----	17	C	18	----	0	SPACE		
SPACE	0	----	19	A	20	----	0	SPACE		
SPACE	0	----	21	B	22	----	0	SPACE		
SPACE	0	----	23	C	24	----	0	SPACE		
SPACE	0	----	25	A	26	----	0	SPACE		
SPACE	0	----	27	B	28	----	0	SPACE		
SPACE	0	----	29	C	30	----	0	SPACE		
SPACE	0	----	31	A	32	----	0	SPACE		
SPACE	0	----	33	B	34	----	0	SPACE		
SPACE	0	----	35	C	36	----	0	SPACE		
SPACE	0	----	37	A	38	----	0	SPACE		
SPACE	0	----	39	B	40	----	0	SPACE		
SPACE	0	----	41	C	42	----	0	SPACE		
A TOTAL	1.60						2.16	RECEPTACLES		
B TOTAL	1.60						0.00	HEATING		
C TOTAL	1.08						0.00	AC/MOTORS		
							2.12	LIGHTING		
							0.00	MISC.		
							0.00	WATER HEATERS		
							0.00	ELEVATORS		
							0.00	KITCHEN EQUIP		
CONN. KW	4.28									
CONN. Amps	11.88									

TOTAL DEMAND LOAD		
RECEPTS: 100% 1ST 10 KW + 50% REMAINING:	=	2.16 KVA
HEAT: 100% :	=	0 KVA
AC/MOTORS: 125% LARGEST + 100% REMAINING:	=	0 KVA
LIGHTING: 125%:	=	2.65 KVA
MISC: 100%:	=	0 KVA
WATER HEATER: 125%:	=	0 KVA
ELEVATORS: PER NEC:	=	0 KVA
KITCHEN EQUIP: PER NEC :	=	0 KVA
TOTAL DEMAND LOAD KW:	=	4.81 KVA
TOTAL DEMAND LOAD AMPS:	=	13.35 AMP

		SPACE TYPES															
LIGHTING CONTROLS	AUTOMATIC CONTROL	OCCUPANCY SENSOR (AUTOMATIC ON/OFF)															
	MANUAL CONTROL	ON/OFF															
DAYLIGHT CONTROL	ON/OFF																

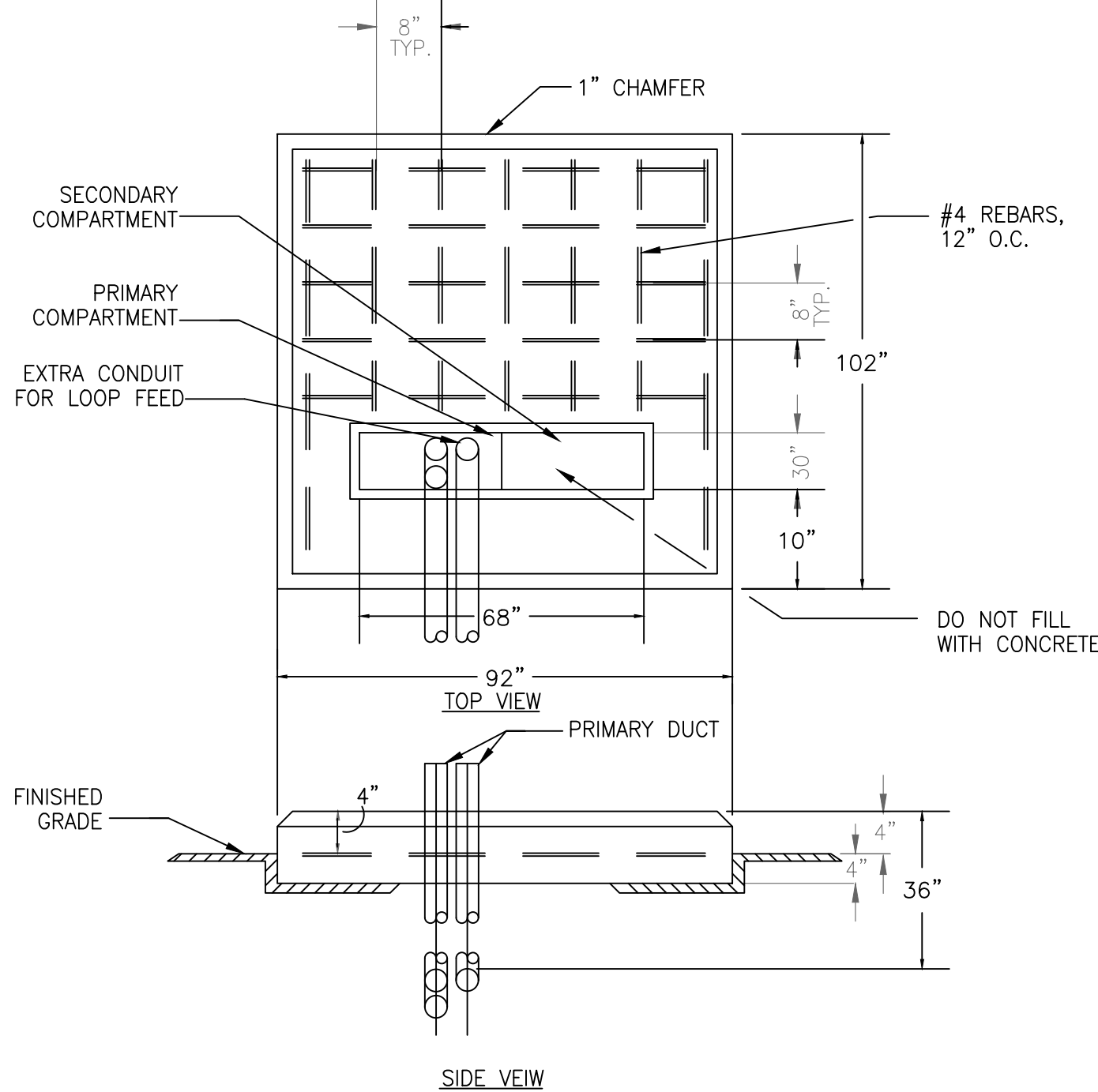
- NOTES:
1. LIGHTING CONTROLS ARE NOT REQUIRED AREAS DESIGNATED FOR SECURITY OR EMERGENCY, INTERIOR EXIT RAMPS, STAIRWAYS, AND PASSAGEWAYS, AND EMERGENCY EGRESS LIGHTING THAT IS NORMALLY OFF.
  2. OCCUPANCY SENSORS AT THE MINIMUM SHALL AUTOMATICALLY TURN OFF LIGHTS WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
  3. MANUAL CONTROL SHALL BE READY ACCESSIBLE TO OCCUPANTS, AND SHALL BE LOCATED WHERE THE CONTROLLED LIGHTS ARE VISIBLE, OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHTS AND INDICATE THEIR STATUS.

AVAILABLE SHORT CIRCUIT FAULT CURRENT  
BASED ON INFORMATION PROVIDED BY THE  
UTILITY COMPANY, THE CALCULATED  
MAXIMUM FAULT CURRENT AVAILABLE AT  
THE POINT OF SERVICE IS 56,523 AMPS.  
ALL EQUIPMENT SHALL BE COORDINATED  
AND RATED NO LESS THAN THE AVAILABLE  
FAULT CURRENT AS CALCULATED.



LEGEND NOTES:  
(APPLY TO THIS SHEET ONLY)

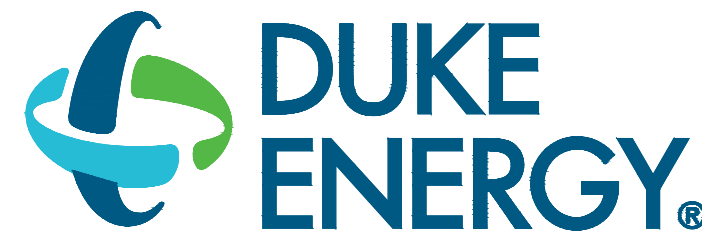
- ① GROUND PER NEC 250.
- ② PROVIDE ARC-FLASH HAZARD WARNING PER NEC 110.16.
- ③ PAD MOUNT UTILITY TRANSFORMER PROVIDED BY UTILITY COMPANY. COORDINATE EXACT LOCATION WITH LOCAL UTILITY AND CIVIL. MAINTAIN SUFFICIENT DISTANCE BETWEEN TRANSFORMER AND BUILDING AS REQUIRED TO MEET LOCAL CODES. PROVIDE REINFORCED CONCRETE PAD PER POWER CO. SPECIFICATIONS ON LEVEL GRADE. EXCAVATE, FILL, AND COMPACT EARTH TO ESTABLISH A SECURE LEVEL FOUNDATION WHILE MAINTAINING WORKING CLEARANCES. PAD SHALL HAVE PARTITION BETWEEN LOW VOLTAGE AND HIGH VOLTAGE WIRING COMPARTMENTS. REFER TO DETAIL XXX FOR ADDITIONAL INFORMATION. PROVIDE DUKE ENERGY COMPLIANT METER ADJACENT TO TRANSFORMER. COORDINATE ALL REQUIREMENTS FOR PERMANENT POWER WITH DUKE ENERGY.
- ④ SERVICE POINT LOCATION. CONDUCTORS INDICATED FROM THE SERVICE POINT BACK TO THE PAD MOUNTED TRANSFORMER ARE TO BE PROVIDED/EXTENDED BY THE UTILITY COMPANY UNLESS OTHERWISE DETERMINED BY THE CONTRACTOR IN CONVERSATION WITH THE UTILITY.



GENERAL NOTES:  
(APPLIES ONLY TO THIS DETAIL 2/E-002)

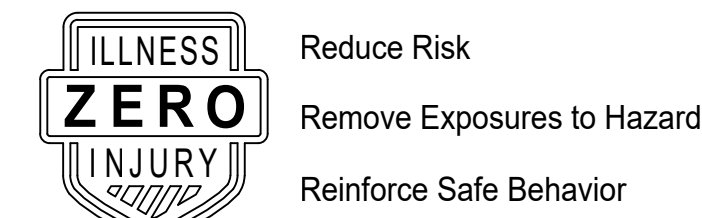
1. CONFIRM DIMENSIONS WITH POWER COMPANY, DUKE ENERGY.
2. SERVICE DUCT SHALL BE LOCATED IN THE EXTREME RIGHT SIDE OF THE SECONDARY COMPARTMENT
3. PRIMARY DUCT SHALL EXTEND BEYOND EDGE OF PAD IN DIRECTION OF INCOMING CABLES.
4. MATERIAL FOR PRIMARY DUCT SHALL BE FURNISHED BY POWER COMPANY.
5. THE PAD SHALL HAVE A MINIMUM CLEARANCE OF 10' FROM ALL BUILDINGS.
6. CONCRETE SHALL HAVE A MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 POUNDS. PAD SHALL BE CURED NOT LESS THAN 72 HOURS.
7. SOIL UNDERNEATH PADS SHALL BE FREE OF ROOTS AND OTHER ORGANIC MATERIALS AND BE THOROUGHLY TAMPED TO PREVENT WASHING. EXERCISE CARE IN BACKFILLING AND GRADING AROUND PAD.
8. USE FIRE ANT CONTROL (CN 9220092158) UNDER ENTIRE PAD INCLUDING OPENINGS.
9. OTHER UTILITIES ARE NOT TO BE INSTALLED UNDER TRANSFORMER PAD.

DRAWING NO.  
CFD-XXXX-E-0004-41CC2B



MAILING ADDRESS:  
P.O. BOX 1007  
CHARLOTTE, NC 28201

Safety Expectations:



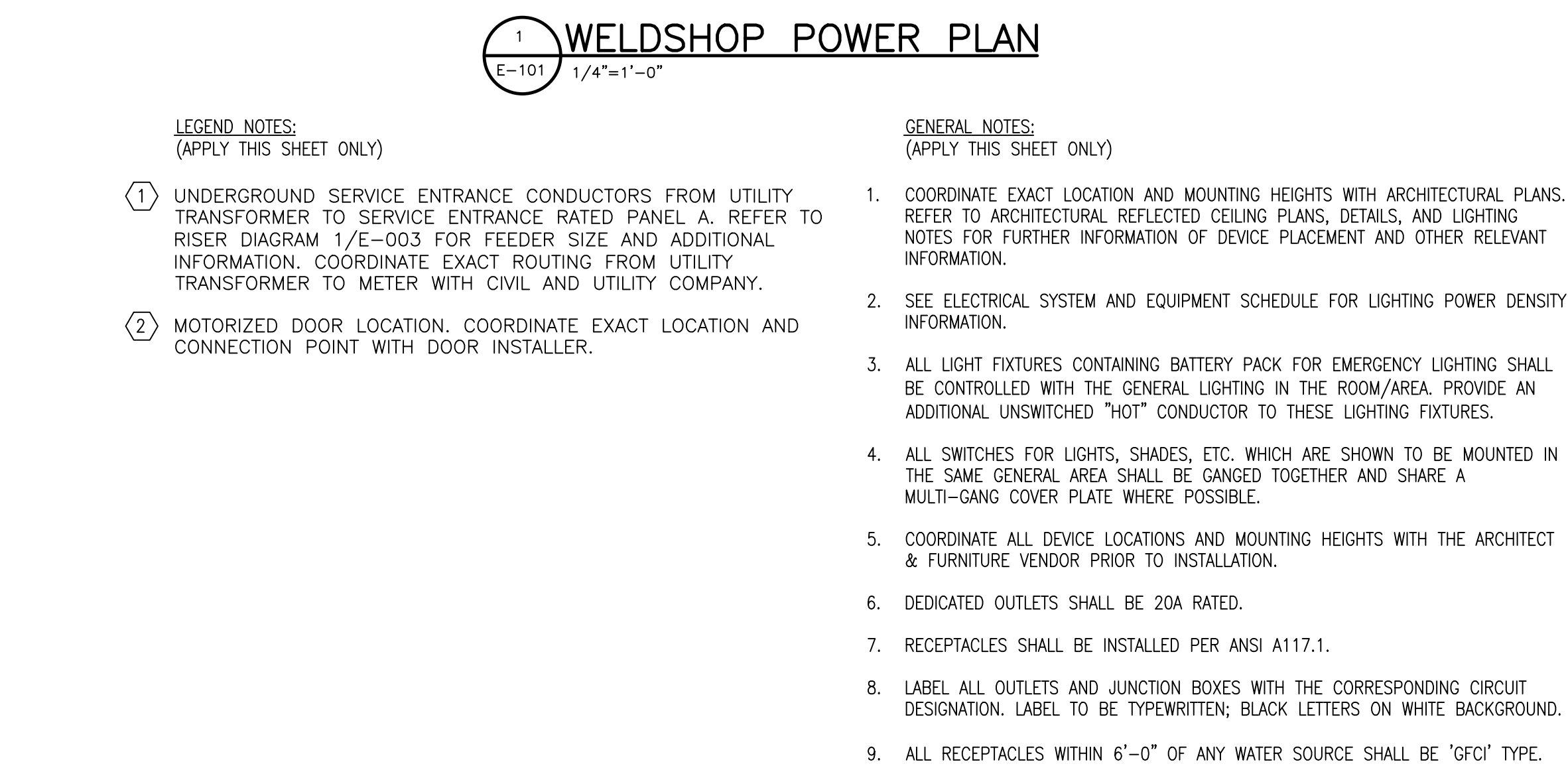
**BW & A** Barrett, Woodyard and Associates, Inc.  
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Charlotte, North Carolina 28217  
(p) 704-357-9333 (f) 704-357-9386  
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BWA JOB # 2022-0632



OPS CENTER  
OUTBUILDINGS

REVISION	DATE	BY	ISSUED FOR CONSTRUCTION
1	02/12/2025		

PROJECT NO:  
DRAWING NUMBER  
CFD-XXXX-E-0004-41CC2B  
ELECTRONIC FILE NAME:  
DRAWN BY: **SEB** 2/12/25  
CHK'D BY: **XXX** **XXX**  
E-MAIL: **jhall@barrettwoodyard.com**  
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SHEET TITLE:  
**POWER RISER DIAGRAM, AND PANEL SCHEDULE**  
SHEET NO.  
**E-004**





- DRAWING NO.  
CFD-XXXX-E-0110a-41CC2B



MAILING ADDRESS:  
P.O. BOX 1007  
CHARLOTTE, NC 28201

Safety Expectations:



- Reduce Risk
- Remove Exposures to Hazards
- Reinforce Safe Behavior

**BW**  
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BWA JOB # 2022-0633



SEAL 02/12/2023

# DUNN OPERATIONS CENTER

# OPS CENTER OUTBUILDINGS

MARK	DATE	ENTRY	REVISION
9			
8			
7			
6			
5			
4			
3			
2			
1			
0	02.12.2025		ISSUED FOR CONSTRUCTION

PROJECT NO:  
DRAWING NUMBER  
CFD-XXXX-E-0110a-41CC2B

ELECTRONIC FILE NAME:

DRAWN BY: **SEB** **2/12/25**

CHK'D BY: XXX XXX

E-MAIL: [jhall@barrettwoodyard.com](mailto:jhall@barrettwoodyard.com)

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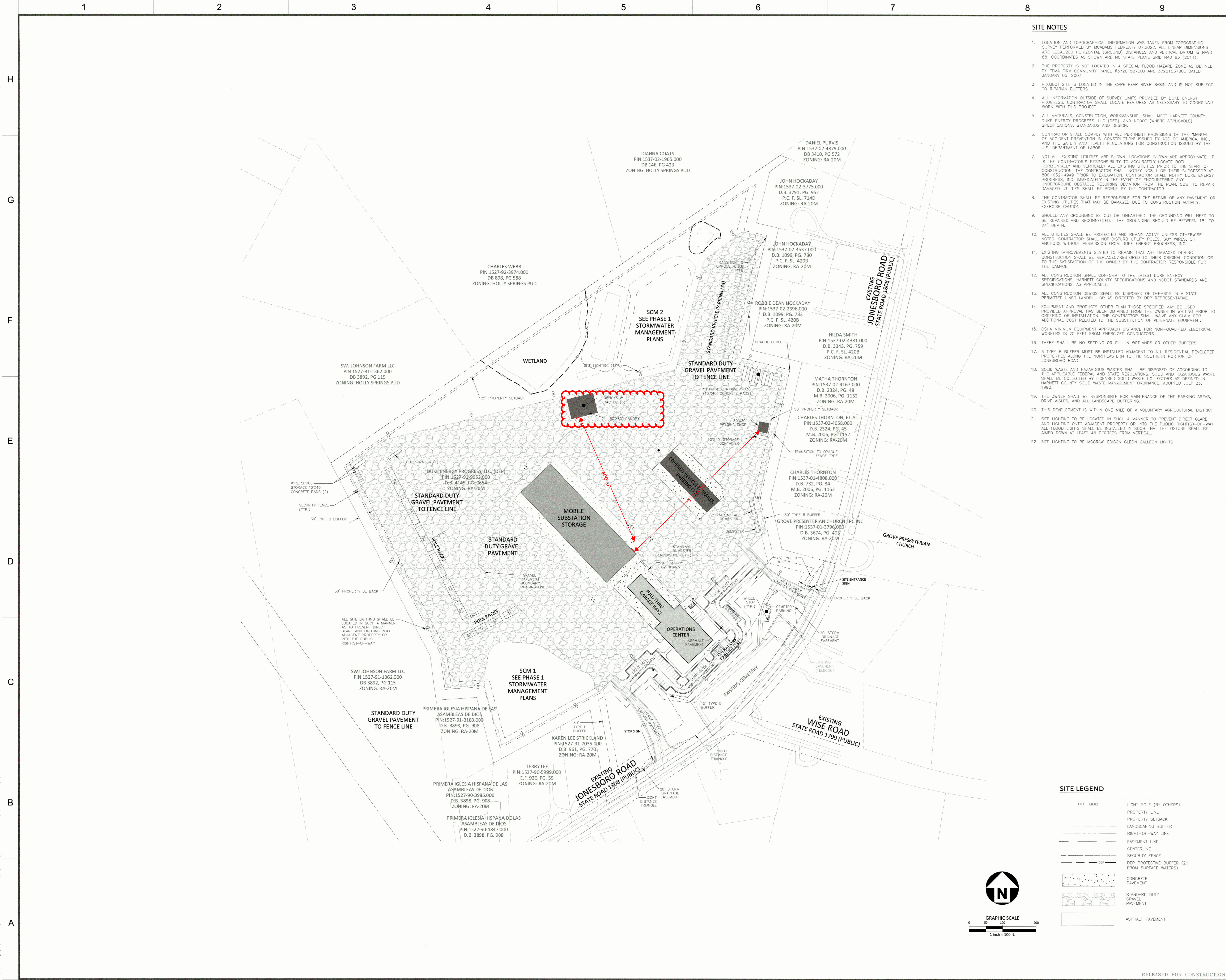
SHEET TITLE: \_\_\_\_\_

## SHED POWER PLAN - ELECTRICAL

SHEET NO. \_\_\_\_\_

E-101a

C:\Users\Energy\Documents\Projects\Current\Drawings\GIS-CSD\110.dwg, 8/1/2024, 8:20:31 AM, Clouds, Photo



DRAWING NO.  
CFD-XXXX-XX-XXXX



MAILING ADDRESS:  
MARK B. FRANKLIN  
JLL - DUKE ENERGY ACCOUNT  
410 S. WILMINGTON STREET  
RALEIGH, NORTH CAROLINA 27602

Safety Expectations:



SEAL

DUNN TRANSMISSION  
OPERATIONS CENTER

1269 JONESBORO RD  
DUNN, NC. 28334, HARNETT COUNTY

DUNN OPERATION CENTER

REVISION	DATE	BY	ISSUED FOR CONSTRUCTION
0	08/01/24	DNL	ISSUED FOR CONSTRUCTION

PROJECT NO:  
DRAWING NUMBER  
CFD-XXXX-X-XXXX

ELECTRONIC FILE CS0110.DWG

DRAWN BY: SMP 08/01/2023

CHKD BY: KAS

E-MAIL: COVIL@MCADAMSCO.COM

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SHEET TITLE:

OVERALL  
SITE PLAN

SHEET NO.

C2.00

E1 SIZE DWG: PLOT SIZE (30x42)