HARNETT COUNTY
EMERGENCY SERVICES
NORTH CAROLINA

Application for Fire Marshal Plan Review

Type of Review Requested: ☐ Site Plan Review ☒ Building Plan Review

Project Information

Project Name: Circle K Convenience Store

Project Physical Address: 92 E JACKSON BLVD, ERWIN, NC 28339

PIN #: 0597-77-2872

Plan Information

Plans Submitted by: RDC-S111, Inc. (Architect / Owner's Agent)

Contact Person: Amy Sisco

Contact Phone #: 479-202-6137

Contact Email: amy.sisco@rdcollaborative.com

Contractor Information

Contractor/Company Name: To Be Determined - will provide prior to issuance.

Company Mailing Address:

Primary Contact Name:

Contact Phone #:

Contact EMail:

- Plans that are submitted will be reviewed as quickly as possible with an average time of review between 7-10 working days.
- Status checks may be conducted on plan reviews by visiting the eTrakit portal, or by calling the Harnett County Central Permitting Department (910-893-7525, Option #1) or the Harnett County Fire Marshal's Office (910-893-7580).
- Approved plans must be obtained through Central Permitting (via centralpermitting@harnett.org email) at the time of payment; payment can be made over the phone (910-893-7525, Option #1) or at the Central Permitting Office (420 McKinney Parkway Lillington, NC 27546).
- All fees must be paid before any required inspections can be conducted.

Revised 9/10/2025

September 16, 2026

Mr. Shane Phelps
Chief Building Code Consultant
North Carolina Department of Insurance - OSFM
325 North Salisbury Street
Raleigh, NC 27603

RE: Frey-Moss Structures, Inc.
Conyers, GA
Submittal: G25B6

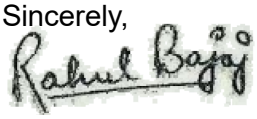
Dear Mr. Phelps:

Enclosed is one set of PFS accepted documents for the above referenced manufacturer. PFS has reviewed these documents and to the best of our knowledge have found them to conform to the North Carolina codes:

2018 NC Building Code (ICC/ANSI A117.1 – 09 Edition)
2018 NC Residential Code with Amendments
2018 NC Plumbing
2018 NC Mechanical Code
2018 NC Fuel Gas Code
2018 NC Energy Conservation Code (based on 2018 IECC) or 2016 ASHRAE 90.1
2018 NC Fire Code
2020 NC Electrical Code w/Amendments

If you have any questions, please contact us.

Sincerely,



Rahul Bajaj, P.E., MCP
Technical Director

Enclosure: As Stated

cc: Ed Dugan
File

PFS Corporation has reviewed and approved the above referenced material and to the best of our knowledge these documents conform to the referenced codes.



Construction Review
Rahul Bajaj, P.E



Structural Review
Rahul Bajaj, P.E.



Plumbing Review
Rahul Bajaj, P.E.



Mechanical Review
Rahul Bajaj, P.E.



Electrical Review
Rahul Bajaj, P.E.

N/A

Quality Control Review
Rahul Bajaj, P.E.

Date Received at PFS:_____
IBC Transmittal No. (by PFS):_____
Project No. (by PFS):_____

ADDITIONAL OR MODIFIED ACCEPTANCE (MODULARS/PANELIZED)

G25B6

This form is to be used only when the manufacturer is seeking acceptance of an additional model, modified model or model name change which uses a previously accepted building system.

Current PFS Building System Acceptance #: 01-979
Model Name/ No. G25B6 Erwin, NC
Manufacturer's Name: Frey-Moss Structures, Inc.
Plant(s) at which model will be produced Conyers, GA 30012
Check One: ✔ NEW MODEL _____ Revised Model*

TECHNICAL DATA

	Conforms		
Floor Plan Showing:	Yes	No	N/A
Braced Wall Method or Shearwalls	✔		
Building Size (LxW Dimensions)	✔		
Room Sizes, Light & Ventilation Schedule	✔		
Exit Requirements	✔		
Electrical Outlet Spacing & Smoke Detector	✔		
Location of Labels & Data Plates	✔		
Use Group, Type Const., Total Sq.Ft. Area	✔		
Plumbing System Design or Reference No. (_____)	✔		
Heat Loss Calculations or Reference No. (_____)	✔		
HVAC/Furnace Size/Model No. (_____)	✔		
Thermal Performance Calculations or Reference No. (_____)	✔		
Electrical Load Calculations or Reference No. (_____)	✔		
Service Size and Location (_____)	✔		
Applicable Building Codes_____	✔		

Submit model to the followingstates: North Carolina

*Description of Modification:_____

Requested by: Ed Dugan Date: 8-12-26
(designer)

For PFS Use

Staff Plan Reviewer Rahul Bajaj IBC Certification #:_____ Date: 9/16/2026

Structural Calculation(s) Reviewed By:_____ P.E. #:_____ Date:_____

Remarks:_____

***(1) copy sent to IBC within 15 days of approval.*

VERBAL APPROVAL GIVEN ☐ By Whom:_____ To Whom_____ Date:_____

MODEL WAS DEVIATED ☐ Revision Number:_____

THIS FORM SHALL BE FILLED OUT COMPLETELY WITH EACH MODEL ACCEPTANCE OR MODIFICATION PRIOR TO SUBMITTAL TO PFS.

cc:_____

NORTH CAROLINA
MODULAR PLANS REVIEW CHECKLIST

 revised June 2018

Manufacturer		Frey Moss Structures
Model number/name		G25B6 Erwin, NC
3rd Party		PFS Teco
Review Date		
Reviewer		
		Plan Sheet Page # and NOTES
	QC MANUAL (current and complete)	
	APPENDIX B (required and attached)	CS2 & CS3
	PLAN SHEETS	
	Each plan sheet third-party stamped with approver's name	
	Each plan sheets is numbered and/or indexed	
	GENERAL (cover sheet)	
	Code References	CS1
	Statement regarding connection to public utilities	CS1
	Statement regarding bathrooms if not included	
	Construction type	CS1 & Structural Calcs
	Occupancy classification	CS1 & Structural Calcs
	Fire resistance ratings (if required)	
	Floor live load	CS1 & Structural Calcs
	Roof live load	CS1 & Structural Calcs
	Design wind velocity	CS1 & Structural Calcs
	Seismic information (commercial projects)	CS1 & Structural Calcs
	Thermal zones	CS1 & Structural Calcs
	Notice to inspections department regarding items to be site inspected	CS1 & Structural Calcs
	FLOOR PLANS	
	Interior and exterior wall layouts	A3
	Door and window schedule	A3
	Light and Ventilation requirements	E0.0
	Attic access (size and location)	
	Non-prescriptive headers	
	Safety glazing requirements	A3, COMcheck
	Fire rating of Exterior walls (if applicable)	
	EXTERIOR ELEVATIONS	
	Exterior materials	A1, A2
	Attic ventilation requirements	
	PLUMBING	
	Plan	P1.1.1
	All fixtures furnished by mfg. shown on plans	P1.1.1
	Materials (water supply & distribution, DWV, storm drainage)	P1.1.1
	Supply and waste risers, including DWV system (generic) beneath the building.	P1.2
	Water heater (type and capacity)	P1.3

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Benjoj
Title: Staff Plan Reviewer
Date: 09/16/2026

NORTH CAROLINA
MODULAR PLANS REVIEW CHECKLIST

 revised June 2018

		Plan Sheet Page # and NOTES
	MECHANICAL	
	Design calculations	M1.2.2, HVAC Calcs
	Installed unit capacity	M1.2.2, HVAC Calcs
	Supply and returns (locations and sizes)	M1
	Duct sizes	M1.2.2
	Specifications (units, ducts)	M1.2.2
	All appliances furnished by mfg. shown on plans	M1.1.1
	ELECTRICAL	
	Plan	E2.0
	Location of all electrical boxes	E2.0
	Electrical panel location	E2.0
	Note regarding main disconnect (if applicable)	E2.0
	Exterior lighting and receptacles	E2.0-E5.0
	Ground level receptacles (if applicable)	E2.0-E4.0
	Smoke detector location(s)	
	Electrical load calculations	E7.1
	Electrical panel layout (breaker and wire sizes, circuit schedule)	E6.0
	Panel and service entrance sizes	E6.0
	All fixtures furnished by mfg. shown on plans	E2.0-E4.0
	ACCESSIBILITY	
	(for other than 1 & 2 family dwellings)	
	Entrances and means of egress	CS3
	Doors, doorways, and door hardware	A3
	Stairs and handrails	
	Toilet rooms, plumbing fixtures, grab bars, etc	A6-A7
	Bathrooms and shower rooms	A6-A7
	Occupancy specific requirements	CS1, CS3
	Multi-family dwellings: Type A and B units	
	FLOOR X-SECTION	
	Joists and beam sizes and spacing	S2, S11-S15
	Materials species and grade	S2, S11-S15
	Sheathing, decking, and concrete as applicable	S1, S11-S15
	Fastening instructions	S8, Structural Calcs, S11-S15
	Insulation	S11-S15, Comcheck Envelope
	Details as required for clarification	S1-S15
	WALL X-SECTION	
	Stud and column sizes and spacing	S2-S3
	Materials species and grade	S2-S3
	Sheathing and bracing	S2-S3
	Headers and lintels	
	Finishes	A3
	Fastening instructions	S8, Structural Calcs, S11-S15
	Insulation	S11-S15, Comcheck Envelope
	Details as required for clarification	

PFS CORPORATION
Approval Limited to Factory Built Portion Only

State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

NORTH CAROLINA
MODULAR PLANS REVIEW CHECKLIST

 revised June 2018

		Plan Sheet Page # and NOTES
	CEILING / ROOF X-SECTION	
	Truss, rafter, and beam spacing	S3, S11-S15
	Lumber species and grade	
	Sheathing and decking	S4-S15
	Finishes	S4-S15
	Fastening instructions	S4-S15
	Insulation	S4-S15
	Details including NC sealed truss designs or manual reference	
	FOUNDATION PLAN	
	Footings, pier, and curtain wall locations and specifications	S1
	X-sections with dimensions	S1
	Anchorage - sill plate to piers and curtain wall	S1
	Anchorage - building to sill plate	S1
	Anchorage - tie downs (lateral and longitudinal)	S1
	Soil bearing capacity	S1
	Minimum concrete compressive strength	S1
	Mortar type	
	Ventilation requirements (with and without vapor barrier)	
	Crawl space access requirements	
	ENERGY COMPLIANCE	
	Demonstrated compliance	COMcheck (Energy Calcs)
	SET-UP INSTRUCTIONS	
	Floor and ceiling connections	S3-S15
	Marriage wall connections	S3-S15
	Roof set-up and connection	S3-S15
	Plumbing connections	P1.1.1-P1.2
	Mechanical connections	M1.1.1-M1.1
	Electrical connections	E2.0-E7.1
	Fire stopping	
	Air infiltration elimination	
	Notice to inspections department attachment if set-up instructions are by attachment	CS1
	ITEMS NOT INSPECTED IN PLANT	
	List of items not inspected by 3rd. Party	
	Notice to inspections department	

PFS CORPORATION

Approval Limited to Factory Built Portion Only

State: North Carolina

Signature: PFS Rahul Bajaj

Title: Staff Plan Reviewer

Date: **09/16/2026**

CIRCLE-K

State of North Carolina

MODULAR BUILDING

SHEET INDEX:

CS1	– COVER SHEET	E0.0	– ELECTRICAL COVER SHEET AND LEGEND
CS2	– APPENDIX B	E0.1	– ELECTRICAL SPECIFICATION
CS3	– ACCESSIBILITY EGRESS PLAN	E2.0	– ELECTRICAL FLOOR PLAN
A1	– EXTERIOR ELEVATIONS	E4.0	– ROOF POWER PLAN
A2	– EXTERIOR ELEVATIONS	E5.0	– LIGHTING PLAN
A3	– FLOOR PLAN	E6.0	– CALCULATIONS AND SCHEMATICS
A4	– FLOOR FINISH PLAN	E7.0	– PANEL SCHEDULES
A5	– REFLECTIVE CEILING PLAN	E7.1	– PANEL SCHEDULES
A6	– EQUIPMENT PLAN	M1.1.1	– MECHANICAL – ROOF PLAN
A7	– EQUIPMENT SCHEDULE	M1.1	– MECHANICAL – FLOOR PLAN
A8	– INTERIOR ELEVATIONS	M1.2.2	– MECHANICAL – SCHEDULES
A9	– INTERIOR ELEVATIONS	M1.2.3	– MECHANICAL – SCHEDULES
A10	– INTERIOR ELEVATIONS	M1.2	– MECHANICAL – DETAILS (1 OF 2)
S1	– FOUNDATION PLAN	M1.3	– MECHANICAL – SPECIFICATIONS
S2	– FLOOR FRAMING PLAN	M1.4	– CO^2 LAYOUT PLAN AND NOTES
S3	– ROOF FRAMING PLAN	M1.5	– CO^2 CUT SHEETS
S4	– ROOF PLAN	P1.1.1	– PLUMBING FLOOR PLAN – WASTE AND VENT
S5	– ROOF PLAN (BASE INSULATION)	P1.1.2	– PLUMBING FLOOR PLAN – DOMESTIC WATER
S6	– ROOF PLAN (COVERBOARD)	P1.1	– PLUMBING FLOOR PLAN – ROOF PLAN
S7	– ROOF PLAN (ACCESSORIES)	P1.2	– PLUMBING SCHEMATICS
S8	– ROOF DETAILS	P1.3	– PLUMBING – SCHEDULES AND DETAILS
S9	– STRUCTURAL ELEVATIONS	P1.4	– PLUMBING – SPECIFICATIONS
S10	– STRUCTURAL ELEVATIONS		
S11	– SECTION		
S12	– SECTION		
S13	– SECTION		
S14	– SECTION		
S15	– SECTION		

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspections and verification.

Reviewed for Code Compliance

09/30/2026

Harnett COUNTY NORTH CAROLINA

PFS CORPORATION
Approval Limited to Factory Built Portion Only

State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: **09/16/2026**

North Carolina

MODULAR CONSTRUCTION

ITEMS INSTALLED IN THE FIELD, SUBJECT TO LOCAL CODE
ALL SITE WORK INCLUDING FOUNDATION, HVAC, EQUIPMENT SCREEN, C.T. CAN, METER AND DISCONNECT

BUILDING NOTES

1. THESE BUILDINGS WILL BE LOCATED A DISTANCE GREATER THAN 10'-1" FROM PROPERTY LINES OR INTERIOR LOT LINES.
2. THIS BUILDING WILL NOT BE LOCATED IN A FLOOD PRONE AREA.
3. THE SITE CONTRACTOR IS TO PROVIDE HANDICAPPED ACCESSIBILITY TO DOOR OF THE BUILDING.
4. ALL ITEMS REQUIRED UNDER PART III 28CFR36 TO BE PROVIDED ON SITE BY THE GENERAL CONTRACTOR
5. STATE INSIGNIA OF APPROVAL, 3RD PARTY INSPECTION LABEL, & MFG DATA PLATE ARE LOCATED AS SHOWN ON SHEET A3.
6. BUILDING TO BE RODENT-PROOF AND WATERTIGHT.

△1 △2 △3

THIS BUILDING IS TO CONFORM TO THE FOLLOWING CODES:

BASED ON 2015 I-CODES
2018 NC BUILDING CODE (ICC/ANSI A117.1 - 09 EDITION)
2018 NC PLUMBING CODE
2018 NC MECHANICAL CODE
2018 NC FUEL GAS CODE
2018 NC FIRE CODE
2020 NC ELECTRICAL CODE W/AMENDMENTS
2016 ASHRAE 90.1

BUILDING INFORMATION

GROUP	–	M
OCCUPANCY LOAD	–	45
BUILDING AREA	–	3863 FT²
CONSTRUCTION TYPE	–	II-B
BUILDING HEIGHT	–	22'-0"
NUMBER OF STORIES	–	1
CLIMATE ZONE	–	3A

BUILDING DESIGN LOADS

ROOF -	LIVE LOAD	–	20 PSF
	DEAD LOAD	–	12 PSF
	GROUND SNOW LOAD	–	10 PSF
FLOOR -	LIVE LOAD	–	100 PSF
	DEAD LOAD	–	30 PSF
WIND -	WIND LOAD	–	VULT = 120 MPH
			VASD = 93 MPH
	EXPOSURE	–	C
	RISK FACTOR	–	II
	SEISMIC DESIGN	–	C
	CATEGORY	–	D
	SEISMIC SITE CLASS		

Occupancy Load Calculation
Accessory Storage Area, Mechnical Equipment Room 1670 S.F. / 300 = 6 People
Sales Area 1908 S.F. / 60 = 32 People
Auxiliary Areas (Hallways, Restrooms) 378 S.F. / 60 = 7 People
Total Occupant Load - 45 People

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DATE	BY	CHK	REVISIONS

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MANUFACTURER:
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Conyers, Georgia 30012
1142 Willow Run Road
Greensboro, GA 30642
Voice: (800) 366-6385
Fax: (770) 483-6037

ENGINEER OF RECORD:
Charles H. Moss, PE
P.O. Box 28
Covington, GA 30015
Email: chmai@aol.com

CUSTOMER:
CIRCLE K
43'-10" X 92'-9" Modular Building
Cover Sheet

DRAWN BY: J.C.
DATE: 07/29/26
CHECKED BY:
DATE:

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11066 ENGINEER CHARLES H. MOSS

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	1/2" = 1'-0"
DRAWING # -	

CS1
1 OF 3

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: G25B6 Circle K 43'-10" x 92'-9" Modular Building
Address: NC 55 & E Jackson Blvd, Erwin, NC Zip Code: 28339
Owner/Authorized Agent: Christina Pimenta Phone # (781) 708-3796 E-Mail _____
Owned By: Private
Code Enforcement Jurisdiction: State

CONTACT: _____

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural				(___)___	
Civil				(___)___	
Electrical	Greenberg-Farrow	Ross E. Waters	053741	(404)604-4000	rwaters@greenberg-farrow.com
Fire Alarm				(___)___	
Plumbing		Ross E. Waters		(___)___	
Mechanical		Ross E. Waters		(___)___	
Sprinkler-Standpipe				(___)___	
Structural	Frey-Moss Structures	Charles H. Moss	11066	(770) 483-9229	
Retaining Walls >5' High				(___)___	
Other				(___)___	

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: New Building

2018 NC EXISTING BUILDING CODE: N/A N/A N/A
CONSTRUCTED: (date) _____ **CURRENT OCCUPANCY(S)** (Ch. 3): _____
RENOVATED: (date) _____ **PROPOSED OCCUPANCY(S)** (Ch. 3): _____

OCCUPANCY CATEGORY (Table 1604.5): **Current:** II **Proposed:** II

BASIC BUILDING DATA
Construction Type: II-B
Sprinklers: No N/A
Standpipes: N/A
Primary Fire District: No **Flood Hazard Area:** No
Special Inspections Required: No

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor		3863	
Basement			
TOTAL		3863	

ALLOWABLE AREA

Primary Occupancy Classification(s): Mercantile

Accessory Occupancy Classification(s): _____
Incidental Uses (Table 509): _____
Special Uses (Chapter 4 – List Code Sections): _____
Special Provisions: (Chapter 5 – List Code Sections): _____
Mixed Occupancy: No Separation: Select one Exception: _____

Select one

$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$

$\frac{3863}{} + \frac{0}{} + \ldots = 0.065 \leq 1.00$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
One	M-Mercantile	3863	23,000		

[1] Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30 =$ _____ (%)

[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	55	22'-0"	
Building Height in Stories (Table 504.4)	Three	One	

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ ____ * REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		N/A					
Bearing Walls		N/A					
Exterior		N/A					
North		N/A					
East		N/A					
West		N/A					
South		N/A					
Interior		N/A					
Nonbearing Walls and Partitions		N/A					

Exterior walls							
North		N/A					
East		N/A					
West		N/A					
South		N/A					
Interior walls and partitions		N/A					
Floor Construction Including supporting beams and joists		N/A					
Floor Ceiling Assembly		N/A					
Columns Supporting Floors		N/A					
Roof Construction, including supporting beams and joists		N/A					
Roof Ceiling Assembly		N/A					
Columns Supporting Roof		N/A					
Shaft Enclosures - Exit		N/A					
Shaft Enclosures - Other		N/A					
Corridor Separation		N/A					
Occupancy/Fire Barrier Separation		N/A					
Party/Fire Wall Separation		N/A					
Smoke Barrier Separation		N/A					
Smoke Partition		N/A					
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A					
Incidental Use Separation		N/A					

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
> 30 ft	N/A	N/A	N/A

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes
Exit Signs: Yes
Fire Alarm: No
Smoke Detection Systems: No
Carbon Monoxide Detection: No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: CS3

- ☐ Fire and/or smoke rated wall locations (Chapter 7)
- ☐ Assumed and real property line locations (if not on the site plan)
- ☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
- ☒ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)

- ☒ Occupant loads for each area
- ☒ Exit access travel distances (1017)
- ☒ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
- ☒ Dead end lengths (1020.4)
- ☒ Clear exit widths for each exit door
- ☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- ☒ Actual occupant load for each exit door
- ☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
- ☐ Location of doors with panic hardware (1010.1.10)
- ☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- ☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
- ☐ Location of doors equipped with hold-open devices
- ☐ Location of emergency escape windows (1030)
- ☒ The square footage of each fire area (202)
- ☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- ☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
N/A							

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
N/A						
TOTAL						

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW	1	2	N/A	1	1	1	N/A	N/A	N/A	N/A
	REQ'D										

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

_____

_____

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No

Exempt Building: No Provide code or statutory reference: ASHRAE 90.1 (2016)

Climate Zone: 3A

Method of Compliance: Energy Code - Performance
(If "Other" specify source here)_____

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: TPO Roofing System
U-Value of total assembly: 0.037
R-Value of insulation: 26.1
Skylights in each assembly: N/A
U-Value of skylight: _____
total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
Description of assembly: Metal Framed Walls
U-Value of total assembly: 0.084
R-Value of insulation: 17.5
Openings (windows or doors with glazing)
U-Value of assembly: 0.28
Solar heat gain coefficient: 0.25
projection factor: 1.00
Door R-Values: 0.35

Walls below grade (each assembly)
Description of assembly: N/A
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly)
Description of assembly: Steel Joist
U-Value of total assembly: 0.040
R-Value of insulation: 19/5.58

Floors slab on grade
Description of assembly: N/A
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
slab heated: _____

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_S) 1.0
Seismic (I_E) 1.0

Live Loads: Roof 20 psf
Mezzanine N/A psf
Floor 100 psf

Ground Snow Load: 20 psf

Wind Load: Basic Wind Speed 120 mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY: C
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) II
Spectral Response Acceleration S_S 0.220 %g S_1 0.092 %g
Site Classification (ASCE 7) D
Data Source: Presumptive
Basic structural system Building Frame
Analysis Procedure: Simplified
Architectural, Mechanical, Components anchored? Yes

LATERAL DESIGN CONTROL: Wind

SOIL BEARING CAPACITIES:
Presumptive Bearing Capicity 2000 psf
Pile size, type, and capacity _____

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: 27.6
summer dry bulb: 91.0

Interior design conditions
winter dry bulb: 40
summer dry bulb: 95
relative humidity: 50%

Building heating load: 206 kBtu/h

Building cooling load: 277 kBtu/h (23 ton)

Mechanical Spacing Conditioning System
Unitary
description of unit: Rooftop HVAC
heating efficiency: 80.0 AFUE
cooling efficiency: 12.2 EER, 16.7 IEER
size category of unit: 2 @ 145.3 kBtu/h (290.6 kBtu/h / 24 ton total)
Boiler
Size category. If oversized, state reason.: N.A.
Chiller
Size category. If oversized, state reason.: N.A.

List equipment efficiencies: 80.0 AFUE – 12.2 EER/16.7 IEER Cooling

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: ASHRAE 90.1 - Prescriptive

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
- ☐ C406.2 More Efficient HVAC Equipment Performance
- ☐ C406.3 Reduced Lighting Power Density
- ☐ C406.4 Enhanced Digital Lighting Controls
- ☐ C406.5 On-Site Renewable Energy
- ☐ C406.6 Dedicated Outdoor Air System
- ☐ C406.7 Reduced Energy Use in Service Water Heating

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DATE	BY	CHK	REVISIONS

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CIRCLE K

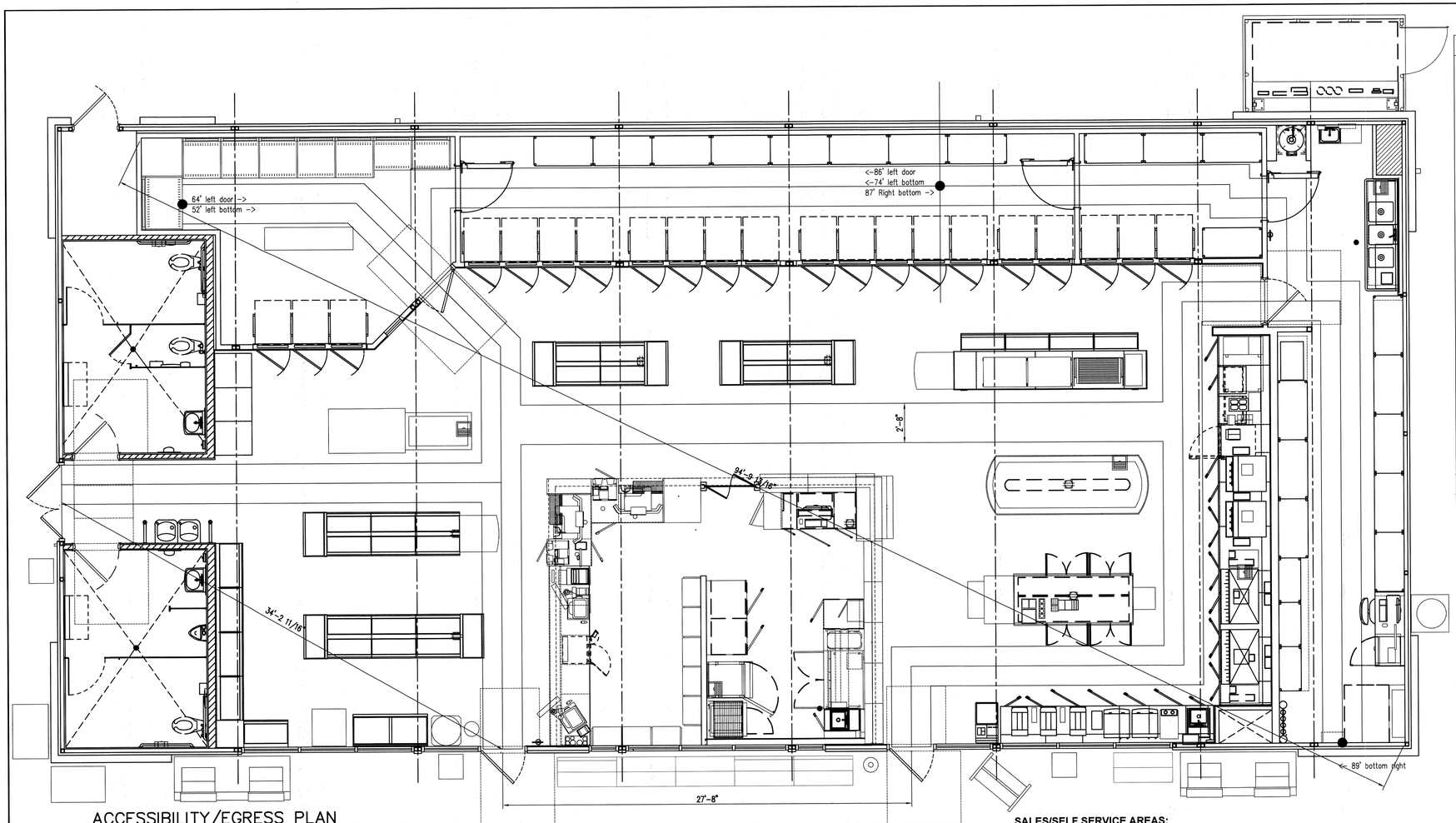
43'-10" X 92'-9" Modular Building
Appendix B

DRAWN BY: Andy Rape
DATE: 10/3/2025
CHECKED BY:
DATE:

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11066 ENGINEER CHARLES H. MOSS 9-16-26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	1/4" = 1'-0"
DRAWING # -	

CS2
2 of 3

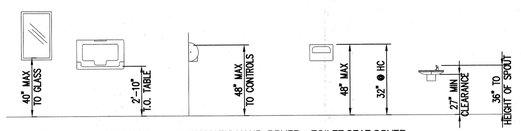


ACCESSIBILITY/EGRESS PLAN

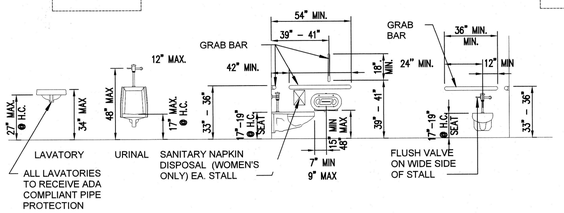
SCALE: 1/4" = 1'-0"

SANITARY FACILITIES:

A. ACCESSIBLE COMPARTMENT DOORS SHALL BE SELF CLOSING. THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A DOOR PULL IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL NOT REQUIRE THE USER TO GRASP OR TWIST.
B. WATER CLOSET: THE HANDLE OR BUTTON IS TO BE LOCATED ON THE WIDE SIDE OF THE WATER CLOSET.
C. URINALS: PROVIDE WALL HUNG URINALS OR STALL TYPE WITH RIM ELEVATION 17 INCHES MAXIMUM A.F.F. AND RIM PROJECTING 13-1/2" MINIMUM.
D. LAVATORY: PROVIDE CLEARANCE OF AT LEAST 27 INCHES FROM THE FLOOR TO THE BOTTOM OF THE APRON AND SINK RIM OR COUNTER SURFACE 34" A.F.F. MAXIMUM, WITH KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30 INCHES WIDE, TO 8 INCHES MINIMUM DEPTH AT THE TOP. PROVIDE CLEARANCE AT LEAST 30 INCHES WIDE, TO 9 INCHES ABOVE THE FLOOR AND 17 INCHES DEEP FROM THE FRONT OF THE LAVATORY. PROVIDE A CLEAR FLOOR SPACE 30"x48" IN FRONT OF LAVATORY. THE CLEAR SPACE MAY EXTEND INTO KNEE AND TOE SPACE UNDERNEATH THE LAVATORY. INSULATE HOT WATER AND DRAIN PIPES UNDER LAVATORIES. FAUCET CONTROLS ARE REQUIRED TO BE OPERABLE WITH ONE HAND AND CANNOT REQUIRE GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE NECESSARY TO OPERATE CONTROLS IS NOT TO EXCEED 5 LBF.
E. ACCESSORIES: WHERE TOWEL, SANITARY NAPKIN AND WASTE RECEPTACLES AND SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED, AT LEAST ONE OF EACH TYPE IS TO BE LOCATED WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, WITHIN 40 INCHES FROM THE FLOOR.
   1. MOUNT MIRRORS WITH THE REFLECTIVE EDGE NOT MORE THAN 40 INCHES ABOVE THE FLOOR.
   2. LOCATE TOILET TISSUE DISPENSERS ON THE WALL WITHIN 7-9" FROM THE FRONT EDGE OF THE TOILET SEAT BETWEEN 15" AND 48" FROM THE FLOOR TO THE PAPER OUTLET.
G. THE STRUCTURAL STRENGTH OF GRAB BARS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE BUILDING CODE.



MIRROR | BABY CHANGING STATION | -AUTOMATIC HAND DRYER -TOWEL DISPENSER | TOILET SEAT COVER DISPENSER (EACH STALL)



LAVATORY | URINAL | SANITARY NAPKIN DISPOSAL (WOMEN'S ONLY) EA. STALL | FLUSH VALVE ON WIDE SIDE OF STALL

ALL LAVATORIES TO RECEIVE ADA COMPLIANT PIPE PROTECTION

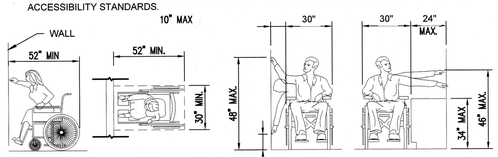
PROTRUDING OBJECTS:

A. PROJECTIONS FROM WALLS WITH LEADING EDGE BETWEEN 27 INCHES AND 80 INCHES ABOVE FLOOR MAY PROJECT 4 INCHES MAXIMUM. LEADING EDGE AT OR BELOW 27 INCHES MAY PROJECT ANY AMOUNT. FREE STANDING OBJECTS MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATION PATHS 2 INCHES MAX. WHEN LOCATED 27 INCHES MIN AND 80 INCHES MAXIMUM ABOVE THE FLOOR OR GROUND SURFACE (PER 307.3 OF ADA 2010). PROJECTIONS MAY NOT REDUCE MANEUVERING SPACE, OR CLEAR WIDTH OF AN ACCESSIBLE ROUTE.
B. HEAD ROOM: 80 INCHES MINIMUM.

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

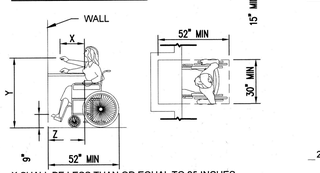
SALES/SELF SERVICE AREAS:

A. FOOD SERVICE AREAS SHOULD BE INSTALLED TO ALLOW AT LEAST 50% OF THE SELF SERVICE SHELVES TO BE WITHIN THE REACH RANGES OF 15 INCH LOW AND 48 INCH HIGH PER ADA 2010STANDARDS, SECTIONS 308 & 904.5.1.
B. ALL ACCESSIBLE ROUTES SHALL HAVE A MINIMUM CLEAR WIDTH OF 36 INCHES WITH A 60 INCH CLEAR DEPTH OR CLEAR WIDTH OF 42 INCHES WITH A 48 INCH CLEAR DEPTH AT U-TURNS PER ACCESSIBILITY STANDARDS.



HIGH FORWARD REACH LIMIT

SIDE REACH LIMIT



X SHALL BE LESS THAN OR EQUAL TO 25 INCHES.
Z SHALL BE GREATER THAN OR EQUAL TO X.
WHEN X IS LESS THAN 20 INCHES, THEN Y SHALL BE 48" INCHES MAXIMUM.
WHEN X IS 20 TO 25 INCHES, THEN Y SHALL BE 44 INCHES MAXIMUM.

MAXIMUM FORWARD REACH OVER AN OBSTRUCTION.

TOTAL SEATS	ACCESSIBLE SEATS
1-20	1
21-40	2
41-60	3
61-80	4

NUMBER OF ACCESSIBLE SEATS



ELEVATION

PROJECT INFORMATION

THIS BUILDING IS TO CONFORM TO THE FOLLOWING CODES:

BASED ON 2015 I-CODES
2018 NC BUILDING CODE (ICC/ANSI A117.1 - 09 EDITION)
2018 NC PLUMBING CODE
2018 NC MECHANICAL CODE
2018 NC FUEL GAS CODE
2018 NC FIRE CODE
2020 NC ELECTRICAL CODE W/AMENDMENTS
2016 ASHRAE 90.1

CONSTRUCTION TYPE: II - B (UNSPRINKLERED)

OCCUPANCY: M (RACEWAY)

	ALLOWED	PROVIDED
BUILDING AREA:	9,000 SF (PER TABLE 506.2)	3,863 SF (BUILDING ENVELOPE)

NUMBER OF STORIES: 1

BUILDING HEIGHT: 22'-0"

OCCUPANT LOAD:

MERCANTILE
BUILDING AREAS/OCCUPANCY LOADS :
TOTAL GROSS AREA: 3,863 SF

Accessory Storage Area, Mechnical Equipment Room 1670 S.F. / 300 = 6 People
Sales Area 1908 S.F. / 60 = 32 People
Auxiliary Areas (Hallways, Restrooms) 378 S.F. / 60 = 7 People
Total Occupant Load - 45 People

PLUMBING

REQUIRED

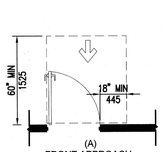
WC MALE	WC FEMALE	LAV MALE	LAV FEMALE
1	1	1	1

PROVIDED

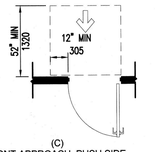
1	2	1	1

DOORS:

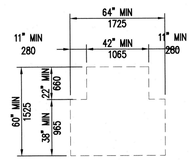
A. LATCHES AND LOCK SETS: PROVIDE LEVER TYPE, PUSH-PULL OR PANIC TYPE HARDWARE 34 INCHES TO 48 INCHES ABOVE FLOOR.
B. MAXIMUM FORCE TO OPERATE INTERIOR / NON-FIRE RATED DOORS SHALL BE 5 LBS PRESSURE. COORDINATE FIRE DOORS OPENING FORCE WITH LOCAL CODES.
C. THRESHOLDS: THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 (PER FIGURE 303.3 OF ADA 2010).
D. LEVEL FLOOR LANDING: THERE SHALL BE A LEVEL SURFACE NOT STEEPER THAN 1:48 AND CLEAR AREA ON EACH SIDE OF AN EXIT DOOR. THE LEVEL AREA SHALL BE AS SHOWN IN FIGURE 404.2.4.1 OF ADA 2010. THE SPACE BETWEEN TWO CONSECUTIVE DOOR OPENING (VESTIBULE) SHALL PROVIDE 48 INCHES OF CLEAR SPACE FROM ANY OPENED DOOR INTO SUCH SPACE.
E. DOOR WIDTH AND HEIGHT: 3 FEET WIDE AND 6 FEET 8 INCHES HIGH. CLEAR WIDTH: 32 INCHES MINIMUM WITH DOOR OPEN 90 DEGREES MEASURED FROM THE FACE OF THE DOOR TO THE OPPOSITE STOP. THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.



(A) FRONT APPROACH, PULL SIDE



(C) FRONT APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH



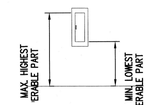
T-SHAPED TURNING SPACE

ELECTRICAL:

A. ELECTRICAL RECEPTACLES (15, 20 AND 30 AMPS) SHALL BE AT LEAST 15 INCHES ABOVE THE FLOOR.
B. THE OPERATIONAL PORTION OF SWITCHES AND CONTROLS FOR LIGHTS, APPLIANCES, COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE NOT LESS THAN 36 INCHES NOR MORE THAN 48 INCHES ABOVE THE FLOOR.
C. FIRE ALARM INITIATING DEVICES SHALL BE 48 INCHES ABOVE THE FLOOR, GROUND, OR SIDEWALK. FLUSH VALVE HEIGHT SHALL BE 48 INCHES MAX.

FIRE EXTINGUISHER:

A. FIRE EXTINGUISHERS SHALL BE INSTALLED SO THE HIGHEST OPERABLE PART IS AT MAXIMUM HEIGHT OF 48" AND LOWEST OPERABLE PART IS AT MINIMUM OF 15" ABOVE THE FINISHED FLOOR. SEE ELEVATIONS FOR DIMENSIONS (PER SECTION 308.2.1 ADA 2010)



FIRE EXTINGUISHER

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CUSTOMER:

CIRCLE K

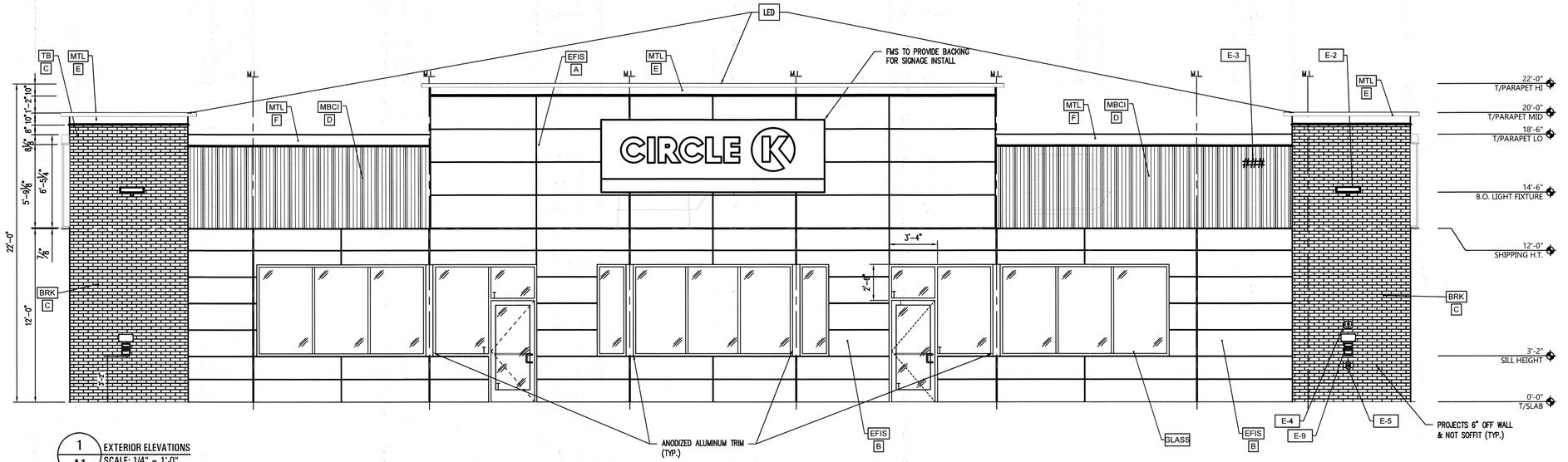
43'-10" X 92'-9" Modular Building Accessibility/Egress Plan

DRAWN BY: JC
DATE: 03/20/26
CHECKED BY: ANDY RAINE
DATE: 03/20/26

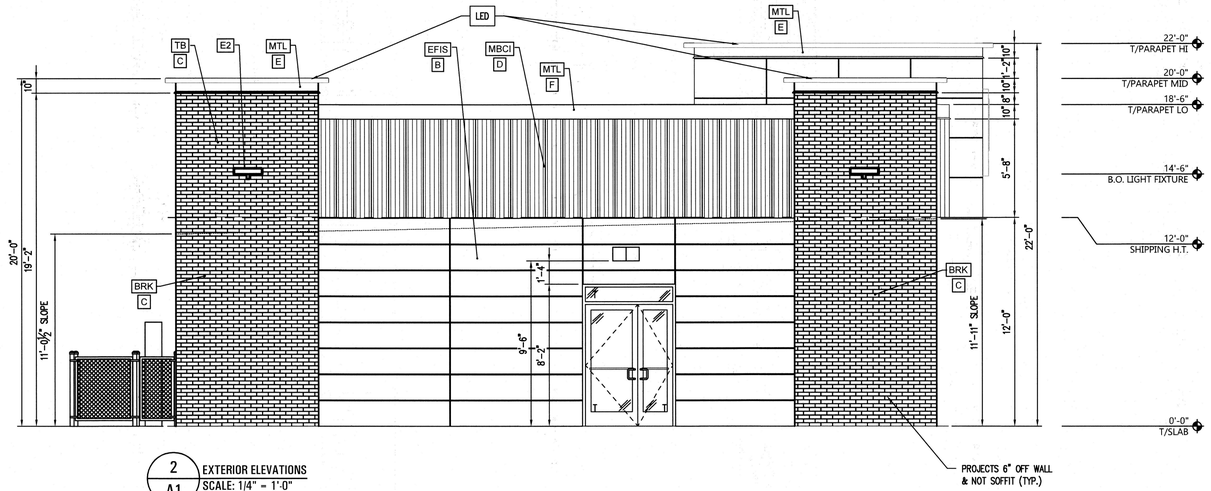
SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11066 ENGINEER CHARLES H. MOSS
3/25/26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	1/4" = 1'-0"
DRAWING # -	

CS3
3 of 3



1 / A1 EXTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



2 / A1 EXTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

EXTERIOR FINISHES

MATERIAL	DESCRIPTION	FURNISHED BY	INSTALLED BY
EIFS	FINE PEBBLE FINISH WITH 1" REVEALS	FMS	FMS
MTL	2-PC COMPRESSION TOP CAP	FMS	FMS
BRK	THIN BRICK (SPEC TO FOLLOW)	FMS	FMS
MBCI	MBCI NUWALL CONCEALED FASWING WALL SYSTEM	FMS	FMS
GLASS	1" INSULATED, TEMPERED, CLEAR, DARK BRONZE ANODIZED ALUMINUM. 1" INSULATED GUARDIAN (OLD CASTLE) SOLARBAN 60 SOLARGRAY GLASS IN A KAWNEER TRIFAB 451T ONLY STOREFRONT DOORS & GLASS NEXT TO DOORS TO BE TEMPRED.	FMS	FMS
LED	LED EYBROW DOWN LIGHTING	CK	CK

EXTERIOR PAINTS/COLORS

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY
A	SHERWIN WILLIAMS #SW9166 "DRIFT OF MIST" LOW SHEEN	FMS	FMS
B	SHERWIN WILLIAMS #SW6255 "MORNING FOG" LOW SHEEN	FMS	FMS
C	TO MATCH NICHIHA CANYON BLACK SHALE BROWN	FMS	FMS
D	MBCI "DEEP GRAY" TO MATCH SW7075 "WEB GRAY"	FMS	FMS
E	SHERWIN WILLIAMS #SW7004 "SNOW BOUND" LOW SHEEN	FMS	FMS
F	SHERWIN WILLIAMS #SW7075 "WEB GRAY" LOW SHEEN	FMS	FMS

KEYNOTES

TAG	DESCRIPTION
E-2	WALL MOUNTED LIGHT FIXTURE, COLOR: WHITE. SEE ELECTRICAL PLANS
E-3	ADDRESSING LOCATION: 8" TALL INCH WHITE NUMBERS. FINAL AREA LOCATION TO BE DETERMINED BY FIRE DEPARTMENT.
E-4	(KNOX) KEY-BOX AT 6'-0" AFF (IF REQUIRED BY FIRE DEPARTMENT).
E-7	METAL ROOF ACCESS LADDER (#SW 7004 "SNOWBOUND"), SEE DETAIL
E-8	SCUPPER AND OVER FLOW DRAIN, SEE A1.7 & DETAIL 4/A8.1 & 9/A8.3 FOR SIZE.
E-9	EMERGENCY FUEL SHUT-OFF SWITCH, LOCATE PER FUEL SHEETS

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DATE	BY	CHK	REVISIONS

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CUSTOMER:

CIRCLE K

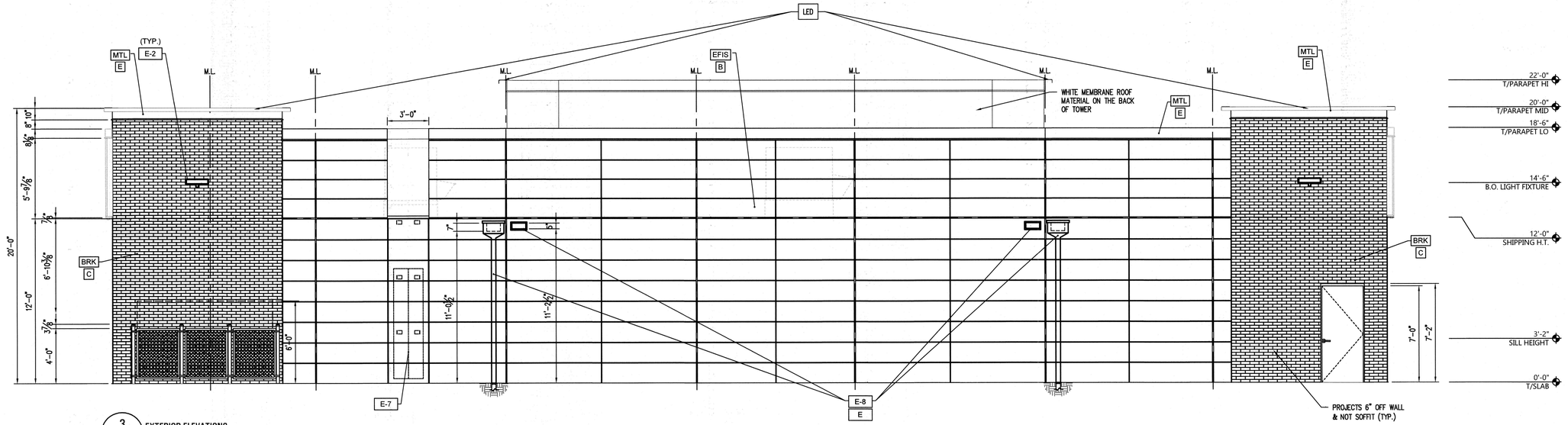
43'-10" X 92'-9" Modular Building
Exterior Elevations

DRAWN BY: LC
DATE: 07/15/26
CHECKED BY:
DATE:

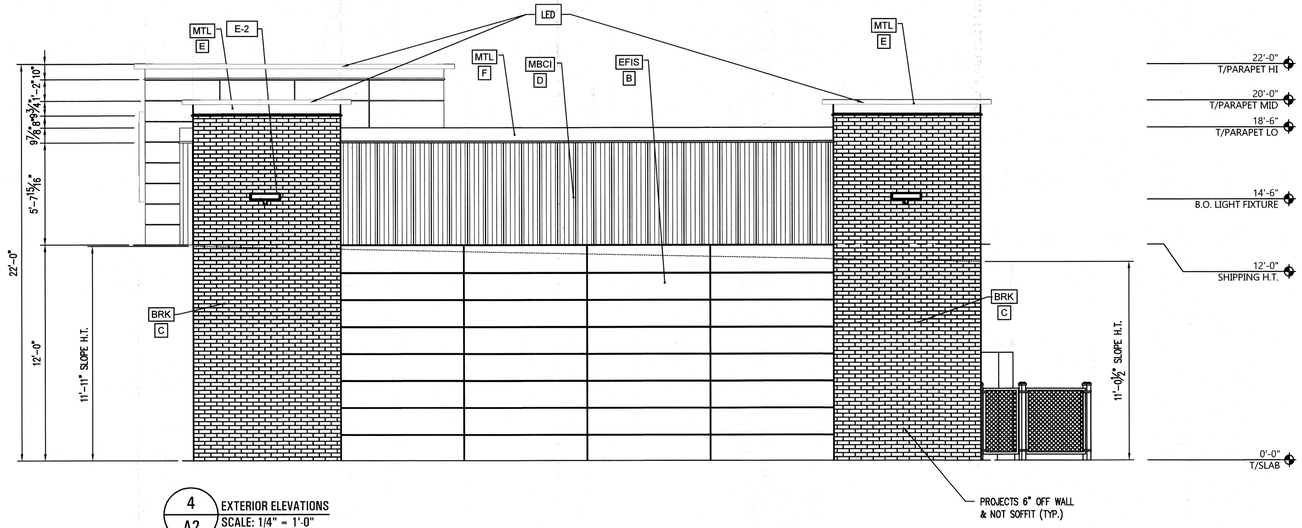
SEAL: NORTH CAROLINA PROFESSIONAL SEAL 19603 ENGINEER CHARLES H. MOSS

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	1/4" = 1'-0"
DRAWING # -	

A1



3 / A2 EXTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



4 / A2 EXTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

NOTE:
REFER TO SHEET A1 FOR KEYNOTES AND SCHEDULES.

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DATE	BY	CHK	REVISIONS

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CUSTOMER:
CIRCLE K

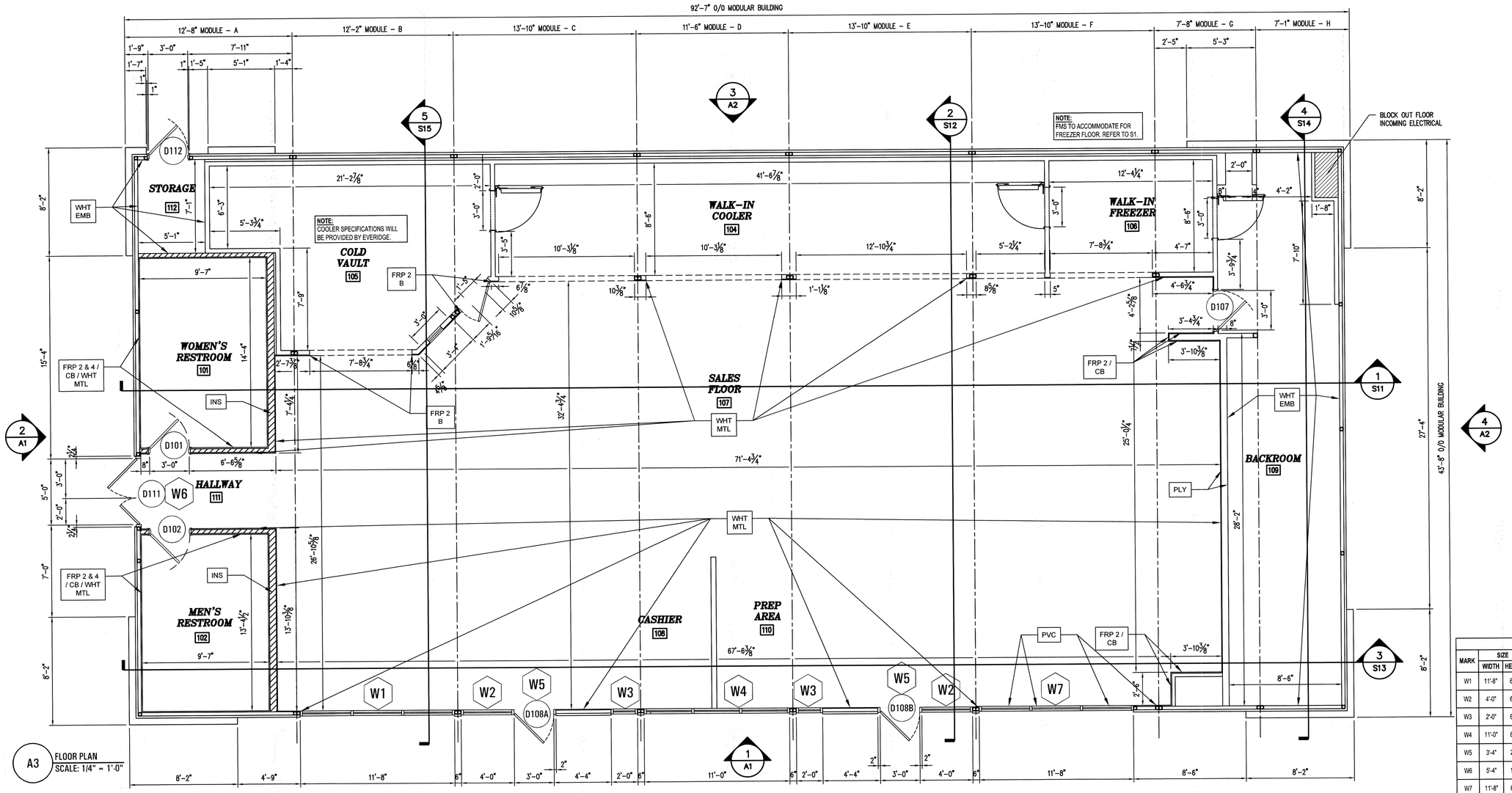
43'-10" X 92'-9" Modular Building
Exterior Elevations

DRAWN BY: A.R./J.C.
DATE: 07/15/26
CHECKED BY:
DATE:

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 31069 ENGINEER CHARLES H. MOSS 09-16-26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	1/4" = 1'-0"
DRAWING # -	

A2
2 OF 10



WINDOW SCHEDULE						
MARK	SIZE WIDTH	SIZE HEIGHT	DESCRIPTION	QTY	FURNISHED BY	INSTALLED BY
W1	11'-8"	6'-4"	SOLARBAN 60 SOLARGRAY + CLEAR 1" UNITS W/ 1/2" AIR SPACE AND TWO 1/4" LITES TEMPERED.	1	GC	GC
W2	4'-0"	6'-4"	SOLARBAN 60 SOLARGRAY + CLEAR 1" UNITS W/ 1/2" AIR SPACE AND TWO 1/4" LITES TEMPERED.	2	GC	GC
W3	2'-0"	6'-4"	SOLARBAN 60 SOLARGRAY + CLEAR 1" UNITS W/ 1/2" AIR SPACE AND TWO 1/4" LITES TEMPERED.	2	GC	GC
W4	11'-0"	6'-4"	SOLARBAN 60 SOLARGRAY + CLEAR 1" UNITS W/ 1/2" AIR SPACE AND TWO 1/4" LITES TEMPERED.	1	GC	GC
W5	3'-4"	2'-6"	SOLARBAN 60 SOLARGRAY + CLEAR 1" UNITS W/ 1/2" AIR SPACE AND TWO 1/4" LITES.	2	GC	GC
W6	5'-4"	1'-0"	SOLARBAN 60 SOLARGRAY + CLEAR 1" UNITS W/ 1/2" AIR SPACE AND TWO 1/4" LITES TEMPERED.	1	GC	GC
W7	11'-8"	6'-4"	VENEER STOREFRONT SYSTEM - 1/4" GLAZING (SPANDREL), MATCH STOREFRONT GLAZING FINISH.	1	GC	GC

STORE FRONT SYSTEM: 1" INSULATED GUARDIAN (OLD CASTLE) SOLARBAN 60 SOLARGRAY GLASS IN A KAWNEER TRIFAB 451T ONLY STOREFRONT DOORS & GLASS NEXT TO DOORS TO BE TEMPRED.

FINISHES SCHEDULE			
TAGS	DESCRIPTION	FURNISHED BY	INSTALLED BY
TR-01	MANF: MARLITE, COLOR: SATIN ANODIZED ALUMINUM, MODEL: EDGE A570 OUTSIDE TRIM AND EDGE CAPS FOR FRP2 & FRP3 PANELS	FMS	FMS
TR-02	MANF: MARLITE, COLOR: SATIN ANODIZED ALUMINUM, DIVISION #A565, NOTES: TO SEPARATE FRP4 & FRP2	FMS	FMS
TR-03	MANF: MARLITE, COLOR: SATIN ANODIZED ALUMINUM, MODEL: EDGE A570 TO BE USED WHERE FRP2 & FRP3 MEET FLOOR TILE	FMS	FMS
FRP2	MANF: MARLITE, COLOR: White (Digital Tile Print Subway), MODEL: Sani Coat FRP Marlite Aluminum Trim Molding FROM 4'-6" AFF TO 6'-6" AFF	FMS	FMS
FRP3	MANF: Marlite Symmetrix, COLOR: Orange (Digital Tile Print Subway), MODEL: Sani Coat FRP Marlite Aluminum Trim Molding	FMS	FMS
FRP4	MANF: MARLITE, COLOR: Multi-Brown (12"x24" Digital Tile Print), MODEL: Blue Sky Advance Finish, Marlite Aluminum Trim Molding FROM FLOOR TO 4'-6" AFF	FMS	FMS
DC1	MANF: Décor Company (Furnished and Installed By GC), COLOR: RED SUNRISE, MODEL: PVC PANEL	BY OTHERS	BY OTHERS
DC2	MANF: Décor Company (Furnished and Installed By GC), COLOR: BLUE RIBBED, MODEL: PVC PANEL	BY OTHERS	BY OTHERS
DC3	MANF: Décor Company (Furnished and Installed By GC), COLOR: ORANGE RIBBED, MODEL: PVC PANEL	BY OTHERS	BY OTHERS
DC4	MANF: Décor Company (Furnished and Installed By GC), COLOR: RED RIBBED, MODEL: PVC PANEL	BY OTHERS	BY OTHERS
CL-3	MANF: CLIMAPLUS, MODEL: ORANGE VINYLE COATED SHEETROCK, BRAND IN WHITE ALUMINUM 15/16" GRID	BY OTHERS	BY OTHERS
PT1	SHERWIN WILLIAMS, PAINT, EGGSHELL, SW7008 EXTRA WHITE OVER 5/8" GYP	FMS	FMS
WHT EMB	20GA WHITE EMBOSSED	FMS	FMS
WHT MTL	PAINTED SMOOTH SHEET METAL (WHITE)	FMS	FMS
GYP	OVER 5/8" GYP	FMS	FMS
CB	OVER 5/8" CONCRETE BOARD	FMS	FMS
PLY	Wall Between Backroom & Sales Area To Get Plywood Backer on Both Sides of Wall From Floor to Ceiling	FMS	FMS
INS	INSULATION FOR SOUND PROOFING	FMS	FMS

ROOM FINISH SCHEDULE							
ROOM	WALLS	FLOOR	COVBASE	CEILING	CEILING HT	FURNISHED BY	INSTALLED BY
REST ROOM - 101/102	FINISH: WHT MTL, OTHER: MARLITE, TYPE: OTHER: MARLITE FRP PANELS- FRP2 & FRP4, REFER TO TAG DESCRIPTION, TR-02, FRP4, FRP2	(T1) - 24" X 24", PORCELAIN TILE FINISH, MANF: DALTILE 24"X24, ", COLOR: MULTI-BROWN, PART#: SLATE ATTACHE, GROUT: MANF: MAPEI, COLOR: #10 - BLACK, PART#: ULTRA PLUS FA	OTHER: RUBBER, BASE SIZE: 4", MANF: DALTILE JOHNSONITE, COLOR: BLACK, PART#: ULTRA COLOR PLUS FA, OTHER: TR03	FINISH: (WHT MTL)	9'-0 1/2""	FMS	FMS
COLD VAULT - 105	WHT MTL, EMBOSSED SILVER SHEET METAL, OTHER - BY COOLER MFG	(T1) - 24" X 24", PORCELAIN TILE FINISH, MANF: DALTILE 24"X24, ", COLOR: MULTI-BROWN, PART#: SLATE ATTACHE, GROUT: MANF: MAPEI, COLOR: #10 - BLACK, PART#: ULTRA PLUS FA	COVE BASE: METAL, SIZE: 4", SPEC: EVERIDGE, COLOR: SILVER EMBOSSED, PART#: BY COOLER MFG	FINISH: EMBOSSED SILVER SHEET METAL, OTHER: BY MFG, SPEC: MANF: BY COOLER MFG	8'-0"	FMS	FMS / BY OTHERS
FREEZER - 106	FINISH: EMBOSSED SILVER SHEET METAL (INTERIOR) - WHT MTL (EXTERIOR)	FINISH: OTHER: EMBOSSED SILVER BY MFG,	-	(CL-3) - MANF: BY COOLER MFG	8'-0"	BY OTHERS	BY OTHERS
COOLER - 104	FINISH: EMBOSSED SILVER SHEET METAL (INTERNAL) - WHT MTL	(CS1) - SEALED CONCRETE, SEALER: MANF: WR MEADOWS, COLOR: CLEAR, PART#: VOCOMP	COVE BASE: METAL, SIZE: 4", SPEC: EVERIDGE, COLOR: SILVER EMBOSSED, PART#: BY COOLER MFG	(CL-3) - FINISH: EMBOSSED SILVER SHEET METAL, SPEC: BY COOLER MFG	8'-0"	BY OTHERS	BY OTHERS
BACK ROOM - 109	FINIS: WHT EMB, OTHER: PLY	(CS1) - SEALED CONCRETE, SEALER: MANF: WR MEADOWS, COLOR: CLEAR, PART#: VOCOMP	OTHER: RUBBER, BASE SIZE: 4", MANF: DALTILE JOHNSONITE, COLOR: BLACK, PART#: ULTRA COLOR PLUS FA	(CT) FINISH: VINYL CEILING TILE - (5/8") CLASS A GREENBOARD, SPEC: MANF: CLIMAPLUS, SIZE: 2'X2' DROP CEILING, PART#: WHITE VINYL COATED SHEETROCK BRAND WHITE ALUMINUM 15/16" GRID	9'-6"	FMS	FMS
SALES FLOOR , HALWAY - 107/111	TR-01, TR-03, FRP2, FRP3, DC1, DC2, DC3, DC4 - SPECIAL INSTRUCTIONS: PAINTED BY GC	(T1) - 24" X 24", PORCELAIN TILE FINISH, MANF: DALTILE 24"X24, ", COLOR: MULTI-BROWN, PART#: SLATE ATTACHE, GROUT: MANF: MAPEI, COLOR: #10 - BLACK, PART#: ULTRA PLUS FA	OTHER: RUBBER, BASE SIZE: 4", MANF: DALTILE JOHNSONITE, COLOR: BLACK, PART#: ULTRA COLOR PLUS FA	CEILING HT: NOTE: Soffit & Front Window @ 9'-6". Valance at Drink Area Furnished and Installed by Sign Vendor, SOFFIT FINISH: OTHER: Smooth White Sheet Metal (Or ACM) Painted by Others, SPEC: 2X2 DROP CEILING, MANF: ARMSTRONG, PART#: #756A Fine Fissured White In White Aluminum 15/16" Grid	9'-10"	FMS	FMS / BY OTHERS
CASHIER, PREA AREA - 108/110	WHT MTL	(T1) - 24" X 24", PORCELAIN TILE FINISH, MANF: DALTILE 24"X24, ", COLOR: MULTI-BROWN, PART#: SLATE ATTACHE, GROUT: MANF: MAPEI, COLOR: #10 - BLACK, PART#: ULTRA PLUS FA	OTHER: RUBBER, BASE SIZE: 4", MANF: DALTILE JOHNSONITE, COLOR: BLACK, PART#: ULTRA COLOR PLUS FA	CEILING HT: NOTE: Bulk Head @ 9'-6". Smooth White Sheet Metal or ACM, FINISH: VINYLE CEILING TILE, SPEC: 2X2 DROP CEILING - (CL-6) 12'-0" AFF, (CL-3) MANF: CLIMAPLUS, PART# ORANGE VINYL COATED SHEETROCK BRAND WHITE ALUMINUM 15/16" GRID	9'-6"	FMS	FMS
STORAGE - 112	WHT EMB	(CS1) - SEALED CONCRETE, SEALER: MANF: WR MEADOWS, COLOR: CLEAR, PART#: VOCOMP	OTHER: RUBBER, BASE SIZE: 4", MANF: DALTILE JOHNSONITE, COLOR: BLACK, PART#: ULTRA COLOR PLUS FA	(CT) FINISH: VINYL CEILING TILE - (5/8") CLASS A GREENBOARD, SPEC: MANF: CLIMAPLUS, SIZE: 2'X2' DROP CEILING, PART#: WHITE VINYL COATED SHEETROCK BRAND WHITE ALUMINUM 15/16" GRID	9'-6"	FMS	FMS

DOOR SCHEDULE				
MARK	SIZE WIDTH	SIZE HEIGHT	DESCRIPTION	QTY
D108A / D108B	3'-0"	7'-0"	STOREFRONT, TYPE: ALUMINUM STOREFRONT WITH 6" TOP FRAME 5" SIDES FRAME & 12" BOTTOM FRAME, COLOR: EXT-DARK BRONZE ANODIZED / INT: DARK BRONZE ANODIZED, DOOR: GLASS/ALUM, LOCKSET: ADAMS RITE 313 FINISH. MS1850-310 WITH ACCENTRA #S2053 MORTISE THVMBTURN (FINISH: 613E) & ACCENTRA #A600-MK CORE (FINISH: 613E). NO EXIT HANDLE (PLUG OR CAP EXIT HOLES), CONT HINGES: PEMKO DFM 83SLF-FINISH D, CLOSER: ACCENTRA UNI 4400 690 488 293S FINISH 690, PUSH/PULL: ROCKWOOD BF15847 33 T4HD MOUNTING FINISH US10B, THRSHOLD: PEMKO HALF SADDLE 2005AV36 MSES2SSS FINISH A, WEATHER STRIP/SWEEP: PROVIDED BY DOOR MFG.	2
D101	3'-0"	7'-0"	WOMENS RR, TYPE: HOLLOW METAL W/16 GA FRAME, COLOR: EXT/INT SW #7017 DORIAN GRAY SEMI-GLOSS, PUSH/PULL: PULL: IVES #8803 10 4"X16" FINISH 630 - PUSH: IVES #8303 6"X16" FINISH 630, HINGES: IVES 4 1/2" X 4 1/2" NRP 5BB1 FINISH 652, CLOSER: LCN 4301H FINISH 689 SURFACE MOUNTED, KICK PLATE: IVES 8400 X CS X B4E 30" X 34" FINISH 630 BOTH SIDES, WALL STOP: IVES # SR64 FINISH GRAY, FOOT PULL: ASSA ABLOY ROCKWOOD #FP1230 FINISH 630	1
D102	3'-0"	7'-0"	MENS RR, TYPE: HOLLOW METAL W/16 GA FRAME, COLOR: EXT/INT SW #7017 DORIAN GRAY SEMI-GLOSS, PUSH/PULL: PULL: IVES #8803 10 4"X16" FINISH 630 - PUSH: IVES #8303 6"X16" FINISH 630, HINGES: IVES 4 1/2" X 4 1/2" NRP 5BB1 FINISH 652, CLOSER: LCN 4301H FINISH 689 SURFACE MOUNTED, KICK PLATE: IVES 8400 X CS X B4E 30" X 34" FINISH 630 BOTH SIDES, WALL STOP: IVES # SR64 FINISH GRAY, FOOT PULL: ASSA ABLOY ROCKWOOD #FP1230 FINISH 630	1
D107	3'-0"	7'-0"	BACK ROOM, TYPE: HOLLOW METAL W/16 GA FRAME, COLOR: EXT/INT: SW #7017 DORIAN GRAY SEMI-GLOSS, CORE: ACCENTRA A600-MK FINISH 626, LOCKSET: ELECTRONIC DIGITAL LOCK TRILOGY T2 DL27 00 IC LS2603, HINGES: PEMKO CFM83 HD1 FINISH C, CLOSER: ACCENTRA 3521T HOLD OPEN THUMBTURN FINISH 689 , ARMOR: ROCKWOOD K1050 30" X 34" LDW FINISH US32D BOTH SIDES, DOOR SILENCER: ROCKWOOD 608 FINISH GRAY	1
D111	3'-0" / 2'-0"	7'-0" / 7'-0"	STOREFRONT HALLWAY, DOOR: DOUBLE LEAF DOOR (2' DOOR IS INACTIVE LEAF), COLOR: PAINT TO MATCH DARK BRONZE ANODIZED, CONT HINGE: (2) PEMKO DFM83SLF-FINISH D, FLUSH BOLT: (2) ROCKWOOD 555 US10B FINISH US10B, EXIT ALARM: (1) ACCENTURA 6160 A ALR 36" EO 613E (EXIT ONLY) FINISH 613E NO PUSH BAR ON INACTIVE LEAF, WIRE HARN: (1) 60 7700 0290 999 (FOR EXIT ALARM DEVICE), CYL: (1) ACCENTRA K660/LOCKNET LN2049D MORTISE CYLINDER HOUSING FINISH 613 (1) FINISH 613, CORE: (1) ACCENTRA A600 MK FINISH 613E, CLOSER: (1) ACCENTRA UNI 4400 690 488 6190 FINISH 690, OVRHEAD DOOR STOP: (1) RIXSON 10 136 613 (INSTALL ON INACTIVE LEAF) FINISH 613, KICKPLATE: (1) ROCKWOOD K1050 30" X 34" LDW US32D FINISH US10B (ACTIVE LEAF), (1) ROCKWOOD K1050 30" X 32" LDW US32D FINISH US10B (INACTIVE LEAF), THRSHOLD: (1) PEMKO HALF SADDLE 2005AV36 FINISH A , SWEEP: (1) PEMKO 3452DP24" FINISH D, (1) PEMKO 3452DP36" FINISH D, RAIN DRIP: (1) PEMKO 346C64 FINISH D, DUST PROOF STRIKE: (1) ROCKWOOD #570 US1)B FINISH US10B, SECURITRON: (2) SECURITRON #DPS M BK	1
D112	3'-0"	7'-0"	STORAGE, DOOR: HOLLOW METAL DOOR W/ 16GA FRAME. COLOR: SW9166. (1) HINGE: PEMKO CFM83_HD1 - FINISH- C. (1) CYLINDER: ACCENTRA K640 MORTISE CYLINDER - FINISH 626. (1) CORE: ACCENTRA A600 MK 626 - FINISH 626. (1) SURFACE CLOSER: ACCENTRA UNI 4400 689 3-0" DOOR - FINISH 689. (1) THRESHOLD: PEMKO 2005AP72 (MSES2SSS) - FINISH A. (1) HEAD SEAL: PEMKO 2891APK - 36 - FINISH A. (2) SET OF SEALS: PEMKO 303ASB4 - FINISH A. (1) RAIN DRIP: PEMKO 346A40 - FINISH A. (1) DOOR SWEEP: PEMKO 3452APK36 - FINISH A	1

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Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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06/03/26	J.C.		CO 5/28/26 CORRECTIONS MADE PER CO

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CIRCLE K

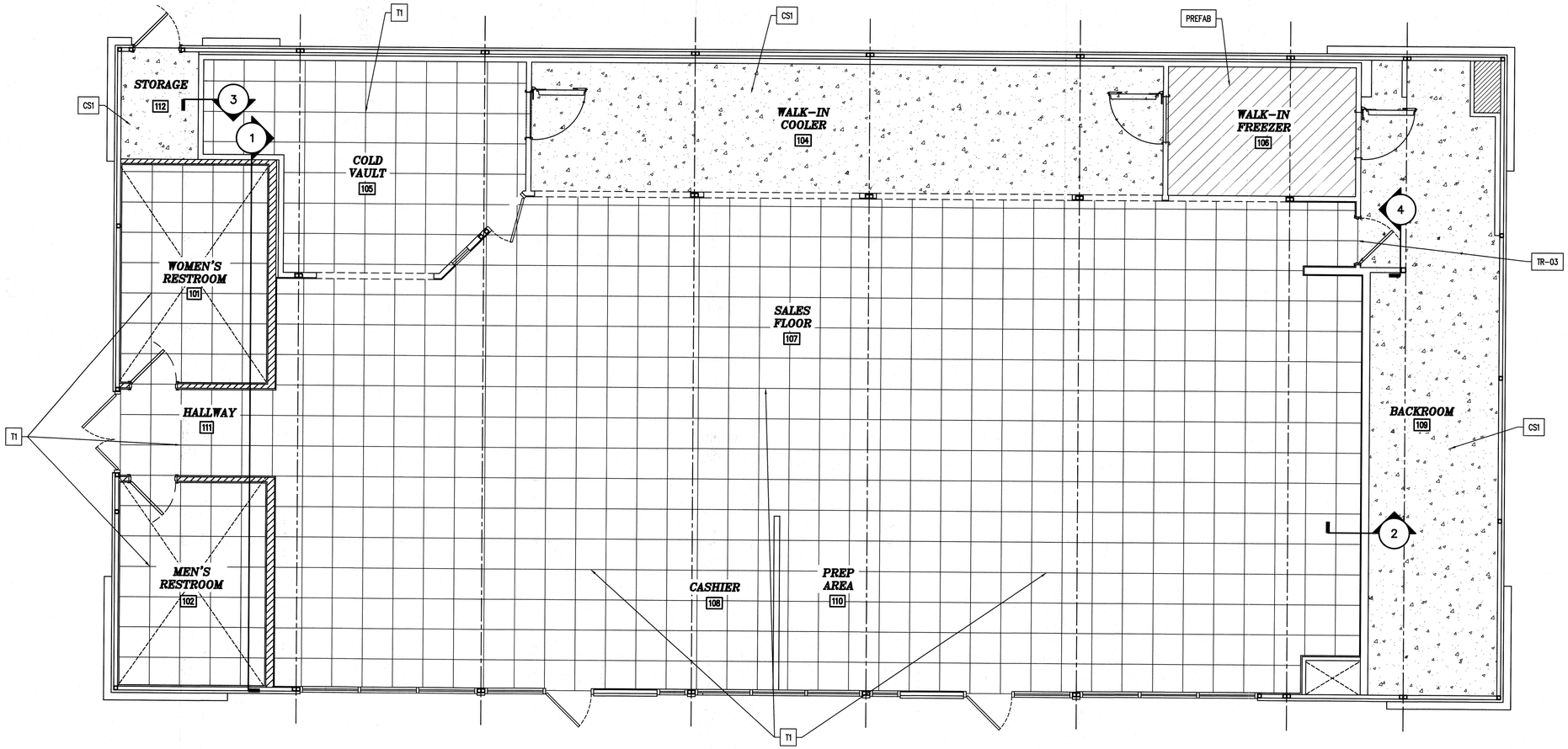
43'-10" X 92'-9" Modular Building
Floor Plan

DRAWN BY: J.C.
DATE: 07/15/26
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DATE:

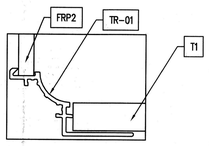
SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 11068 CHARLES H. MOSS 8-11-26

JOB #	G25B6
	NC 55 & E Jackson Blvd
	Erwin, NC 28339
	United States of America
SCALE :	1/4" = 1'-0"
DRAWING #	-

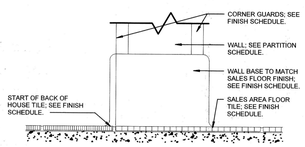
A3
3 OF 10



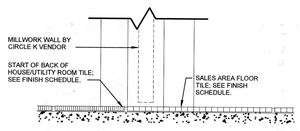
A4 FLOOR FINISH PLAN
SCALE: 1/4" = 1'-0"



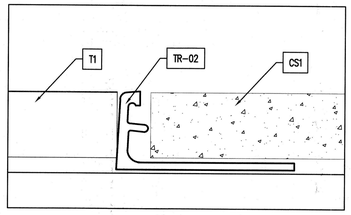
1 TILE TRANSITION N.T.S.



2 TILE TRANSITION N.T.S.



3 TILE TRANSITION N.T.S.



4 TILE TRANSITION N.T.S.

FLOOR FINISH SCHEDULE

TAG	DESCRIPTION	TAG	DESCRIPTION
T1	24" X 24", PORCELAIN TILE FINISH. MANF: DALTILE 24"X24, ", COLOR: MULTI-BROWN, PART#: SLATE ATTACHE, GROUT: MANF: MAPEI, COLOR: #10 - BLACK, PART#: ULTRA PLUS FA OTHER: RUBBER, BASE SIZE: 4", MANF: DALTILE JOHNSONITE, COLOR: BLACK, PART#: ULTRA COLOR PLUS FA, OTHER: TR03	CS1	SEALED CONCRETE, SEALER: MANF: WR MEADOWS, COLOR: CLEAR, PART#: VOCOMP COVE BASE: METAL, SIZE: 4", SPEC: EVERIDGE, COLOR: SILVER EMBOSSED, PART#: BY COOLER MFG
PREFAB	METAL FLOOR SUPPLIED BY FREEZER MANUFACTURER	TR-02	FLOOR TILE EDGING SPECIFICATION ITEM: TILE TRIM MANUFACTURER: SCHLUTER SYSTEMS PRODUCT NAME: SCHIENE AE125 COLOR: STAINLESS SIZE: 1/2" NOTES: FLOOR TILE TRANSITION AND BORDER
TR-01	MANF: MARLITE, COLOR: SATIN ANODIZED ALUMINUM, MODEL: EDGE A570 OUTSIDE TRIM AND EDGE CAPS FOR FRP2 & FRP3 PANELS	TR-02	

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Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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CUSTOMER:
CIRCLE K

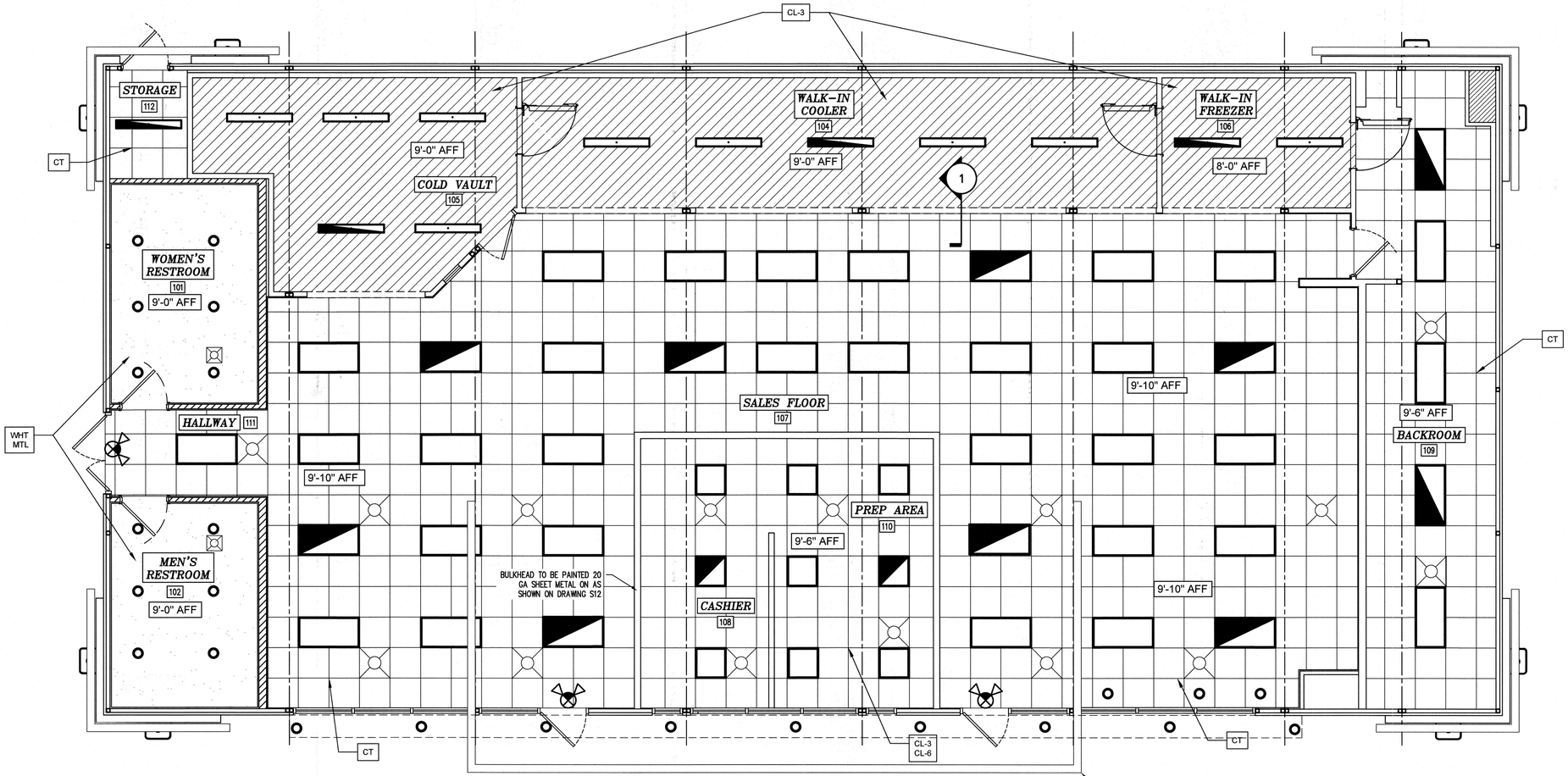
43'-10" X 92'-9" Modular Building
Floor Finish Plan

DRAWN BY: J.C.
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CHECKED BY:
DATE:

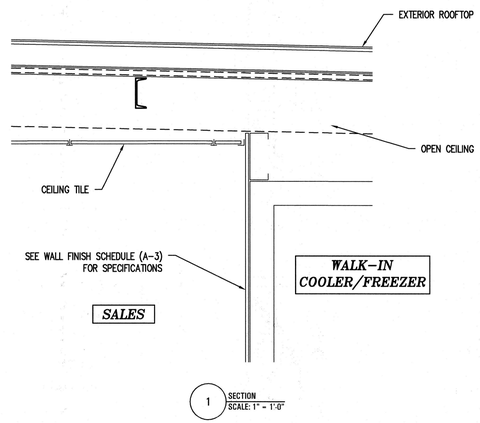
SEAL
NORTH CAROLINA PROFESSIONAL SEAL 11059 ENGINEER CHARLES H. MOSS
07-15-26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	1/4" = 1'-0"
DRAWING # -	

A4
4 OF 10



A5 RELECTIVE CEILING PLAN
SCALE: 1/4" = 1'-0"



1 SECTION
SCALE: 1" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

EQUIPMENT		
ITEM	MANUFACTURER	DESCRIPTION
		2X4 LED LIGHT FIXTURE
		2X4 N.I. & EMERG. LED LIGHT FIXTURE
		2X2 LED LIGHT FIXTURE
		2X2 N.L. EMERG. LED LIGHT FIXTURE
		MOISTURE PROOF FIXTURE SUPPLIED BY COOLER MFR.
		EMERG. MOISTURE PROOF FIXTURE SUPPLIED BY COOLER MFR.
		RECESSED OR SUSPENDED CAN LIGHT FIXTURE
		ILLUMINATED EXIT SIGN
		EXTERIOR WALL MOUNT LIGHT FIXTURE
		SUSPENDED GRID, CEILING TILE
		5/8" GYP. BD CEILING
		WALK IN COOLER PROVIDED BY OTHERS

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DATE	BY	CHK	REVISIONS

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CUSTOMER:

CIRCLE K

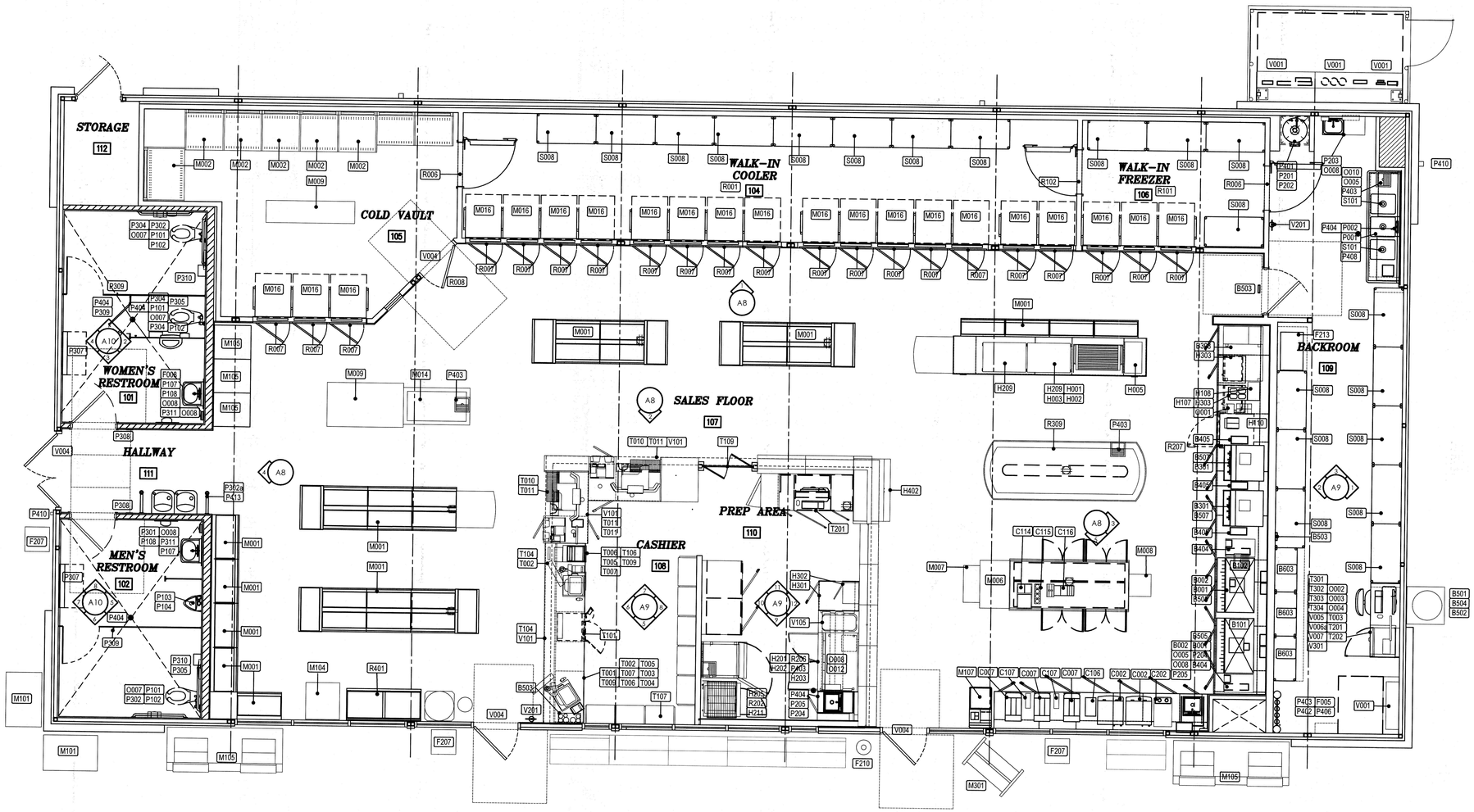
43'-10" X 92'-9" Modular Building
Reflective Ceilling Plan

DRAWN BY: J.C.
DATE: 07/15/26
CHECKED BY:
DATE:

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11068 ENGINEER CHARLES H. MOSS 07-15-26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE : 1/4" = 1'-0"	
DRAWING # -	

A5
5 OF 10



A6 EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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CUSTOMER:
CIRCLE K

43'-10" X 92'-9" Modular Building
Equipment Plan

DRAWN BY: LC
DATE: 07/15/26
CHECKED BY:
DATE:

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 11088 ENGINEER CHARLES H. MOSS
8-11-26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	1/4" = 1'-0"
DRAWING # :	

A6
6 OF 10

EQUIPMENT SCHEDULE

CK ITEM #	ITEM NAME	QTY	DESIGN SPEC		RESPONSIBILTY	
			MANUFACTURER	MODEL	SUPPLIED BY	INSTALLED BY
B001	12-HD SODA FOUNTAIN PACKAGE - CORNELIUS	2	CORNELIUS	ENDURO 300	CK	CK
B002	CARBONATOR FOR ED300	2	CORNELIUS	*4146424000	CK	CK
B101	19" FOLLETT REMOTE CHEWBLET ICE ICE MAKER (1800LB)	1	FOLLETT	HCD1810RHT	CK	CK
B102	30" MANITOWOC REMOTE ICE MAKER (1825LB)	1	MANITOWOC	IYF-1800C-161	CK	CK
B201	REMOTE CONDENSER FOR HCD1810RHT W/ LINE SET	1	FOLLETT	N/A	CK	CK
B202	REMOTE CONDENSER FOR IYF1800C W/ LINE SET	1	MANITOWOC	CVDF1800F-263A	CK	CK
B301	FOUR BARREL COUNTERTOP FCB PACKAGE - STANDARD	2	CORNELIUS	VIPER ELITE- 4B	CK	CK
B308	BLENDING BAR	1	FREAL	FRLB-6-BLENDING BAR	CK	CK
B404	COUNTERTOP CUP/LID DISPENSER - CUPS RIGHT	2	GENERUX FINE W.P.	CUSTOM	CK	CK
B405	COUNTERTOP FCB DOME LID DISPENSER	3	FOOD CONCEPTS	CK-DOMELID	CK	CK
B501	CO2 TANK	1	CARBOMIZER	VARIES	VENDOR	VENDOR
B502	CO2 CABINET	1	ROYSTON	CUSTOM	CK	CK
B503	CO2 DETECTION SYSTEM	2	LOGICO2	MK9	VENDOR	CK
B504	CO2 SIGNS	1	NUCO2		VENDOR	VENDOR
B505	LEG SHROUD FOR ENDURO300 FOUNTAIN	2	FOOD CONCEPTS	CK-FTN-ENDUROSHRD	CK	CK
B507	LEG SHROUD FOR FCB	2	FOOD CONCEPTS	CK-FTN-FCBSHROUD	CK	CK
B603	3 WIDE BIB RACK PACKAGE	3	CORNELIUS	3BIFJ	CK	CK
C002	5-HD CAPPUCCINO	2	WILBUR CURTIS	PCGT5	CK	CK
C003	BEAN TO CUP COFFEE WATER FILTER	5	SCHAERER	HF40-S	CK	VENDOR
C007	3-HOPPER BEAN TO CUP BREWER	3	SCHAERER	1341170001	CK	VENDOR
C101	2HD COFFEE CREAMER	2	DANONE - ID	215	VENDOR	CK
C106	TEA RACK	1	PURELEAF	CK-PURELEAF-RACK-6-DS	CK	CK
C107	ICED COFFEE CUP/LID DISPENSER	2	LIBERTY	CUSTOM	CK	CK
C114	MODULAR COFFEE CONDIMENT RACK	1	CREATIVE DISPLAY	COFFEE BAR FIXTURE 'B'	CK	CK
C115	4-TIER SYRUP RACK	1			CK	CK
C116	STANDARD COFFEE CONDIMENT UNIT	1			CK	CK
C202	ICE AND WATER DISPENSER	1	FOLLETT	15CI100A-NW-NF-ST-00 - 15 SERIES CHEWBLET ICE MACHINE AND WATER DISPENSER	CK	CK
D001	COFFEE BACKGROUND DÉCOR	1		CUSTOM	CK	CK
D002	POLAR POP DÉCOR PACKAGE	1		CUSTOM	CK	CK
D003	FROSTER DÉCOR PACKAGE	1		CUSTOM	CK	CK
D005	HOT FOOD DÉCOR PACKAGE	1		CUSTOM	CK	CK
D101	24"X36" BACKLIT LED FRAMES	1		CUSTOM	CK	CK
D201	COOLERWALL DÉCOR PACKAGE	1		CUSTOM	CK	CK
D202	FREEZER WALL DÉCOR PACKAGE	1		CUSTOM	CK	CK
D203	COLD VAULT SIGN - BACKLIT	1		CUSTOM	CK	CK
D204	COLD VAULT GRAPHICS PACKAGE	1		CUSTOM	CK	CK
D304	RESTROOM DÉCOR SIGNS	1		CUSTOM	GC	CK
F001	FUEL TANKS	1	FS/XERXES/MODERN	CUSTOM	CK	PETRO
F002	FUEL DISPENSERS	1	GILBARCO	700S	CK	PETRO
F003	PETROLEUM EQUIPMENT AND PIPING	1	ANS	VARIES	CK	PETRO
F004	SUBMERSIBLE TANK PUMPS (STP)	1	RED JACKET	VARIES	CK	PETRO
F005	VEEDER ROOT	1	VEEDER ROOT	TLS-450PLUS	CK	PETRO
F006	INTERCOM	1	3M	D2400	PETRO	PETRO
F007	PUMP CONTROL PANEL	1	FEPETRO	STP-SCI	CK	PETRO
F008	ULINE OPEN TOP TRASH CAN	1	ULINE	H-11607	CK	GC
F101	CANOPY & INSTALL	1	JIMCO/ARNING	N/A	CK	CANOPY
F102	SITE SIGNAGE	1	S.R./PATTISON	N/A	CK	SIGN
F103	3'x6' ELECTRONIC MESSAGE CENTER (EMC)	1	ABLE	N/A	CK	SIGN
F104	4'x8' ELECTRONIC MESSAGE CENTER (EMC)	1	ABLE	N/A	CK	SIGN
F206	BOLLARD COVERS	1	POSTGUARD	VARIES	CK	GC/OPS
F209	DOUBLE SIDED AMENITY UNIT	4	MASONWAYS	ARU1		
F210	ROUND SMOKERS POLE	1	MASONWAYS	SP41		
F212	SANITIZER TOWER	2	MASONWAYS	SVC5100CK	CK	GC
F213	BRUSH ASSIST	1	ICE ROBOTICS	i15B	CK	CK
F214	HOODED TRASH- GRAY	3	MASONWAYS	SVC5035-GY		
H001	50 HOT DOG ROLLER GRILL (DURATIC ROLLERS)	1	STAR	50SCBDEP	CK	CK
H002	SLANTED GLASS SNEEZE GUARD FOR STAR 50 GRILL	1	CREATIVE DIPLAY	CDW-HT-LED-50	CK	CK
H003	4" BLACK STEEL LEGS- HOT DOG GRILLS (WITH RUBBER FEET) (4 PER KIT)	1	STAR	RGLK KIT	CK	CK
H005	BUN DISPLAY	1	DESERT STAR	CK 10038	CK	CK
H006	11" LED POP DISPLAY	1	CREATIVE DIPLAY	11 LED POP	CK	CK
H007	HOT DOG GRILL DIVIDER KIT	1	FOOD CONCEPTS	CK-RG-DK-SCBD-50	CK	CK
H104	4-BIN COLD CONDIMENT DISPENSER COUNTERTOP	1	APW	RTR-4	CK	CK
H107	CORRAL WIDE WITH 3 STEPS CONDIMENT RACK	1	DESERT STAR	10060	CK	CK
H108	CONDIMENT CADDY WITH SOLID BASE	1	DESERT STAR	700641	CK	CK
H110	NACHOS TO GO RACK	1	RICOS	#813035 - NACHOS TO GO RACK	CK	CK
H201	ELECTRIC COMBI OVEN	1	UNOX	XAVC-0511-EPR	CK	VENDOR
H202	UNOX VENTLESS HOOD	1	UNOX	XAVHC-HC11	CK	VENDOR
H203	UNOX OVEN STAND W/ PAN RACK	1	UNOX	XAVRC-0711-UH-OK	CK	VENDOR
H205	UNOX SPEEDPRO OVEN STAND	1	YES GROUP	TBH	CK	CK
H209	DISPLAY WARMER	2	FLEXESERVE	1000	CK	CK
H211	UNOX SPEEDPRO OVEN	1	UNOX	XASR-03HS-EDDS.0	CK	CK
H301	FOOD SCALE SMALLWARE PACKAGE	1	E-TUNDRA	VARIOUS	CK	CK
H302	DAYMARK PRINTERS PACKAGE	1	DAYMARK	MATT85	CK	CK
H303	COMMERCIAL MICROWAVE OVEN	2	MENUMASTER	MMS10TS	CK	CK
H402	SMALL BAKERY CASE	1	JSI	CK-BAKE-FXT012	CK	CK
M001	INLINE GONDOLA PACKAGE	1	LOZIER/RPS/ROYSTON	PACKAGE	CK	VENDOR
M002	COLD VAULT SHELVING PACKAGE	1	ETALEX	QUOTE	CK	CK
M005	2-LITER RACKS	3	MRP TRADING	RAZOR	CK	CK
M006	LARGE NESTING TABLE	1			CK	CK
M007	SMALL NESTING TABLE	1			CK	CK
M008	MUG DISPLAY/RACK-FLOOR MODEL	1			CK	CK
M009	CENTER STORE DISPLAY PLATFORM	1	VARIES	VARIES	CK	CK
M014	BEER TUB	1	CREATIVE DISPLAY	CUSTOM		
M016	COOLER SHELVING PACKAGE	1	BRUEGMANN GROUP	CUSTOM	CK	CK
M101	PROPANE EXCHANGE	2	VARIES	N/A	N/A	VENDOR
M104	LOTTERY VENDING UNIT	1	VARIES	VARIES	VENDOR	VENDOR
M105	ICE MERCHANDISER	2	LEER	VARIES	VENDOR	VENDOR
M106	AIR	1	VENWORKS	HYGEIA	VENDOR	VENDOR
M107	ATM MACHINE	1	TRITON	RL5000	CK	VENDOR
M201	WE ID SIGN	1	A.B.	N/A	VENDOR	CK
M202	PUSHER TRAYS CHANNEL RAILS	1	TRION INDUSTRIES	VARIOUS	CK	OPS
M203	COOLER GLIDES	1	PFI	VARIOUS	CK	OPS
M204	POP BACK STRIPS	1	GLADSON	VARIOUS	CK	OPS
M301	SIDEWALK A-FRAME SIGNAGE DISPLAY	1	MAGICMASTER	QLA-GI	CK	OPS
M302	PUMP APPROACH SNAP FRAMES	1	KDM POP SOL	VARIOUS	CK	OPS
M303	INVERTED PUMP TOPPERS	1	HICORP	DB650SA	CK	CK
M304	BUILDING SNAP FRAMES	1	VARIES	VARIES	CK	GC
O001	NAPKIN DISPENSER	1	MCLANE	N/A	CK	OPS
O003	MANAGER CHAIR	1	OFFICE DEPOT	LORELL - 722306	CK	OPS
O004	TELEPHONE	1	VTECH	532343	CK	OPS
O005	PAPER TOWEL DISPENSER	2	TORK	5511282	CK	GC
O006	SAFETY CABINET	1	VARIES	VARIES	CK	VENDOR
O007	TOILET PAPER DISPENSER	3	TORK	555528A	CK	GC
O008	SOAP DISPENSER	5	GOJO INDUSTRIES, INC	GOJO TFX	CK	GC
O009	OPERATIONAL EXCELLENCE PACKAGE	1	VARIES	VARIES	CK	OPS/CK
O010	SAFEWORLD CLEANING KIT	1	SAFE WORLD	429712	CK	GC
O011	CHEMICAL DISPENSER(S)	1	DEMA	PF651 OR PF652	CK	GC
O012	COUNTERTOP PAPER TOWEL DISPENSER	1			CK	GC
P001	3-COMPARTMENT SINK W/ (2) 18" DRAIN BOARDS	1	ADVANCE TAB	9-3-54-18RL	CK	GC
P002	PRE-RINSE UNIT W/ FAUCET	1	KROWNE	17-109W	CK	GC
P101	TOILET	3	AMERICAN STAND	3043.001	GC	GC
P102	TOILET FLUSH VALVE - AUTOMATIC HARDWIRED	3	SLOAN	SLOAN 111 ESS-1.28-TMO-HW	GC	GC
P103	URINAL	1	AMERICAN STAND	6590.001	GC	GC
P104	URINAL FLUSH VALVE- AUTOMATIC HARDWIRED	1	SLOAN	SLOAN 186 ESS-0.5-TMO-HW	GC	GC
P107	WALL MOUNTED LAVATORY	2	AMERICAN STAND.	LUCERN - 0356.041	GC	GC
P108	HAND SINK FAUCET- AUTOMATIC HARDWIRED	2	SLOAN	SF-2400	GC	GC
P201	MOP SINK	1	MUSTEE	63M	GC	GC
P202	MOP SINK FAUCET	1	AMERICAN STAND.	8344.012	GC	GC
P203	WALL MOUNTED HAND SINK	1	ADVANCE TAB	7-PS-60	CK	GC
P204	DROP-IN HAND SINK	2	ELKAY OR EQUAL	K11515	CK	GC
P205	GOOSENECK FAUCET FOR DROP IN HAND SINK	2	CHICAGO FAUCETS	895-317CP	CK	GC
P301	ANGLE FRAME MIRROR	2	BOBRICK	B-290	GC	GC
P302	ADA HAND RAILS	2	BOBRICK	B-5806	GC	GC
P302A	ADA HAND RAILS - FOR DRINKING FOUNTAIN	1	BOBRICK	819298	GC	GC
P304	WALL-MOUNTED SANITARY NAPKIN DISPOSAL RECEPTACLE	2	BOBRICK	B-270	GC	GC
P305	TOILET SEAT COVER DISPENSER	3	BOBRICK	B-4221	GC	GC
P306	LAVATORY GUARD FOR HAND SINK	2	TRU-BRO	1022Z	GC	GC
P307	HORIZONTAL BABY CHANGING STATION	2	BRADLEY	962-11	GC	GC
P308	RESTROOM SIGNS	2	LOCKNET	TBD	GC	GC
P309	COAT HOOK	3	BOBRICK	B-212	GC	GC
P310	CONVENIENCE SHELF	2	BOBRICK	B296-18	GC	GC
P311	HAND DRYER - EXCEL	2	EXCEL	TA-ABS	GC	GC
P400	FIXED BLADDER EXPANSION TANK	1	AMTROL FLEXON WATTS WILLKINS	ST-12	WH-18	PLT-12
P401	ELECTRIC WATER HEATER	1	AO SMITH	DRE-52-24	GC	GC
P402	WATER FILTER	1	EVERPURE	EV9437-10	CK	GC
P403	FLOOR SINK		<varies>	<varies>	GC	GC
P404	FLOOR DRAIN W/ TRAP PRIMER		<varies>	<varies>	GC	GC
P405	FLOOR CLEANOUT		JR.SMITH	4100 SERIES	GC	GC
P406	BACKFLOW PREVENTER - INLINE BEVERAGE CHECK VALVE		WATTS	SD3	GC	GC
P407	1/4 TURN BRASS SHUTOFF VALVE		FNW OR EQUAL	VARIES	GC	GC
P408	MIXING VALVE		ZURN	ZW1017XL	GC	GC
P409	CIRCULATION PUMP	1	TACO	T003-BC4	GC	GC
P410	ENCASED STANDARD HOSE BIB	2	MIFAB	MHY-35	GC	GC
P412	RECESSED GREASE TRAP	1	JENSEN PRECAST	JP1000G	GC	GC
P413	DRINKING FOUNTAIN	1	OASIS	PG8ACSLTM	GC	GC
P417	FREEZELESS ROOF HYDRANT	1	WOODFORD	RHY2-MS	GC	GC
P418	TRAP PRIMER	4	SIOUX CHIEF	SERIES 695	GC	GC
R001	WALK-IN COOLER	1	CROWN TONKA	CUSTOM	CK	CK
R002	WALK-IN COOLER - EVAPORATOR	3	HTPG-RUSSELL DOE	RL6A1410DARE	CK	CK
R003	WALK IN COOLER- REMOTE CONDENSER	1	HTPG-RUSSELL DOE	RFO400ASEAALNT	CK	CK
R004	COLD VAULT -EVAPORATOR	1	HTPG-RUSSELL DOE	RE6A204DDARE	CK	CK
R005	COLD VAULT -REMOTE CONDENSER	1	HTPG-RUSSELL DOE	RFO300E4SEAALNT	CK	CK
R006	WALK-IN METAL DOOR - 36" WIDE	1	CROWN TONKA	SELF CLOSE OVERLAP	CK	CK
R007	WALK-IN DOORS	22	ANTHONY	101	CK	CK
R008	COLD VAULT DOORS	1	ANTHONY	103B	CK	CK
R101	WALK-IN FREEZER	1	CROWN TONKA	CUSTOM	CK	CK
R102	WALK-IN FREEZER METAL DOOR - 36" WIDE	2	CROWN TONKA	SELF CLOSE OVERLAP	CK	CK
R103	WALK-IN FREEZER -EVAPORATOR	1	HTPG-RUSSELL DOE	RL6E077DDARE	CK	CK
R104	WALK-IN FREEZER - REMOTE CONDENSER	1	HTPG-RUSSELL DOE	RFO300L4SEANT	CK	CK
R202	27" UNDERCOUNTER FREEZER	1			CK	CK
R206	48" UNDERCOUNTER REFRIGERATOR	1			CK	CK
R207	27" UNDERCOUNTER REFRIGERATOR	1	BEVERAGE-AIR	UCR-27-014	CK	CK
R309	ISLAND FRESH CASE - 4'X11'	1	SOUTHERN CASE ARTS	11.2-MDI-3M2P-R	CK	GC
R310	REMOTE CONDENSER FOR SOUTHERN FRESH CASE	1	BOHN	CH0035MCACZ	CK	GC
R401	BUBBLE TOP ICE CREAM NOVELTY CASE	1	VARIES	VARIES	VENDOR	VENDOR
S008	24"X48" WIRE SHELVING UNIT	20	EAGLE	2448VG/P74VG	CK	CK
S101	18" X 36" WALL MOUNTED WIRE SHELVING KIT	4	EAGLE	1836VG/WBI8-VG	CK	CK
S201	WIRE STORAGE SHELVING CASTER	1	FORTIER	FOR/C5PSB	CK	CK
T001	EPOS - RADIANT PACKAGE	2	NCR	XR7	CK	VENDOR
T002	PINPAD PACKAGE	2	VERIFONE	MX915	CK	VENDOR
T003	UPS FOR POS AND NETWORK RACK BOH	2	TRIPPLITE	OMNIVS800	CK	VENDOR
T004	UPS FOR NETWORK SWITCH	2	TRIPPLITE	BC350	CK	VENDOR
T005	COIN CHANGER PACKAGE	2	GLORY GLOBAL	M59003	CK	VENDOR
T006	RECEIPT PRINTER	2	NCR	P201F074-T88V	CK	VENDOR
T007	LIFT STATION	2	VERIFONE	LIFT	CK	VENDOR
T008	COUPON PRINTER	3	OUTSITE NETWORK	APL01001	CK	VENDOR
T009	PINPAD STAND	2	OUTSITE NETWORK	APL0300RC	CK	VENDOR
T010	MASHGIN SELF CHECKOUT PACKAGE	2	MASHGIN	KIOSK V2.7	CK	VENDOR
T011	GLORY SELF CHECKOUT CASH SYSTEM	2	GLOBAL GLORY	CI-10	CK	VENDOR
T012	DNR	1	TYCO ELECTRONICS	MS800596	CK	VENDOR
T101	SMART SAFE	1			CK	VENDOR
T102	MONEY ORDER	1	HYPERCOM	T7E	CK	VENDOR
T104	24 TICKET LOTTERY DISPLAY	1	SHAFER SYSTEMS	24 GAME TMBL	CK	CK
T105	36 GAME UNDERCOUNTER DISPENSER	1	SCHAFER SYSTEMS	35/36 RHDT	CK	CK
T106	LOTTO VERIFIER & PRINTER	1	VARIES	VARIES	VENDOR	VENDOR
T109	DOUBLE-ACTING SWING GATE W/ POST	1	ROYSTON	CUSTOM	CK	CK
T201	BACK OFFICE COMPUTER, PRINTER, HANDHELD, AND ACCESSORIES	2	VARIOUS	VARIES	CK	VENDOR
T202	UPS FOR BO PC	1	TRIPPLITE	INTRNT OFFC 500R	CK	VENDOR
T301	BACK RACK ACCESSORIES	1	VARIOUS	VARIES	CK	VENDOR
T302	SITE CONTROLLER	1	HP	HP705	CK	VENDOR
T303	CREDIT CONTROLLER	1	NCR	EPC4	CK	VENDOR
T304	TIGER/PANTHER BOX	1	PANTHER	32"P WEC7	CK	PETRO
V001	ELECTRICAL PANEL SYSTEM	1	CPI/P.I.	CUSTOM	CK	GC
V002	DSL BOX/FRAME RELAY	2	<varies>	<varies>	CK	VENDOR
V003	D-MARC BOX	2			VENDOR	VENDOR
V004	DOOR CHIME SYSTEM	4	OPTEX	RC-20U	CK	VENDOR
V005	SECURITY SYSTEM INSTALLED	1	CBE	CBE	CK	VENDOR
V006	NETWORK INSTALLED	1	CBE	CBE	CK	VENDOR
V006a	GATEWAY - INHAND NETWORKS	1	CBE	CBE	CK	GC
V006b	GATEWAY - VANTRON	1	CBE	CBE	CK	GC
V007	MUSIC SYSTEM INSTALLED	1	ONKYO	TX-8220	CK	VENDOR
V008	LANDSCAPE CONTROLLER	1	VARIES	VARIES	GC	GC
V101	METAL CABINETS	1	ROYSTON	SEE SHOPS	CK	VENDOR
V103	EXTERIOR FIRE EXINGUISHER ENCLOSURE	2	CATO OR EQUAL	CA-105-10 RRC-H	GC	GC
V105	INTERIOR TRASH CAN	1			CK	CK
V201	FIRE EXTINGUISHER	2	KIDDE OR EQUAL	20A-10B-C	GC	GC
V202	INTERIOR LIGHTING	1	RLA	LITHONIA	CK	GC
V203	EXTERIOR SITE LIGHTING	1	RLA	LITHONIA	CK	GC
V204	CANOPY LIGHTING	1	RLA	LITHONIA	CK	CANOPY
V205	CONDENSER RACKS (ALL)	1	PRECISION ALU.	CUSTOM	GC	GC
V206	HVAC - RTU PACKAGE	2	CARRIER	VARIES	CK	GC
V212	NICHIHA PANEL SYSTEM PACKAGE	1	NICHIHA	CUSTOM	CK	GC

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

A7 EQUIPMENT SCHEDULE
SCALE: 3/8" = 1'-0"

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DATE	BY	CHK	REVISIONS

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1801 Rockdale Industrial Blvd.
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Greensboro, GA 30642
Voice: (800) 366-6385
Fax: (770) 483-6037
fms@freymoss.com

ENGINEER OF RECORD:
Charles H. Moss, PE
P.O. Box 28
Covington, GA 30015
Email: chmai@aol.com

CUSTOMER:
CIRCLE K

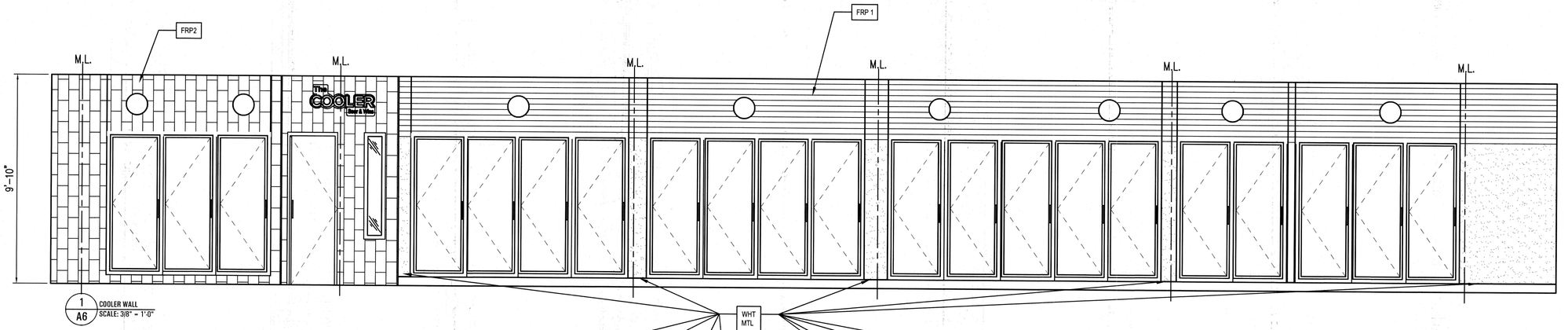
43'-10" X 92'-9" Modular Building
Equipment Schedule

DRAWN BY: YE
DATE: 07/15/26
CHECKED BY:
DATE:

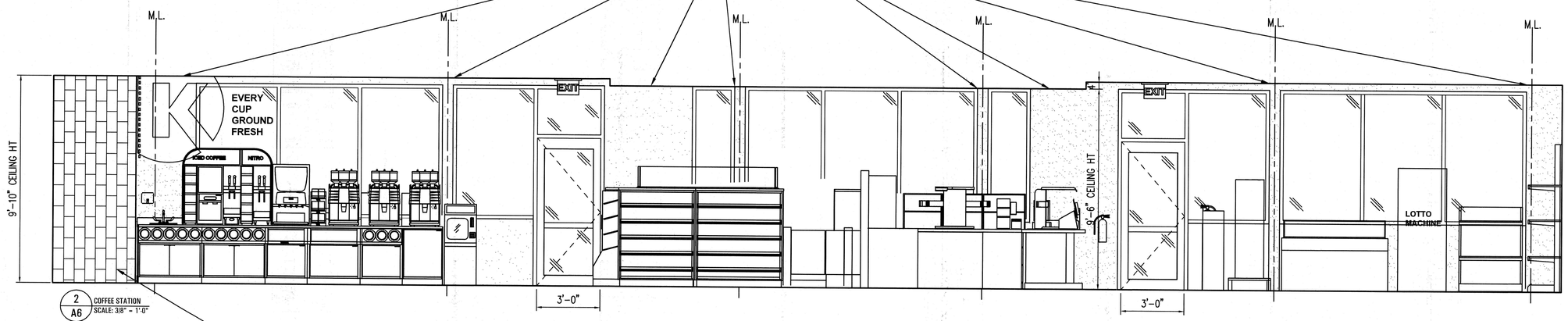
SEAL 11006 NORTH CAROLINA PROFESSIONAL ENGINEER CHARLES H. MOSS

JOB #	G25B6
	NC 55 & E Jackson Blvd
	Erwin, NC 28339
	United States of America
SCALE:	3/8" = 1'-0"
DRAWING #	-

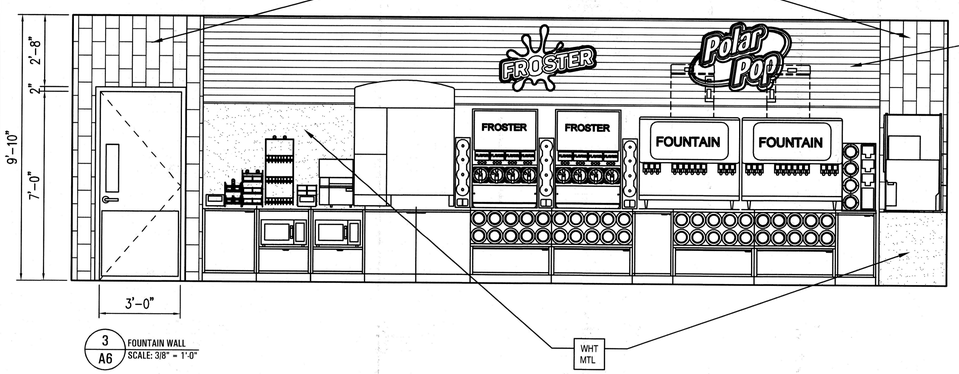
A7
7 OF 10



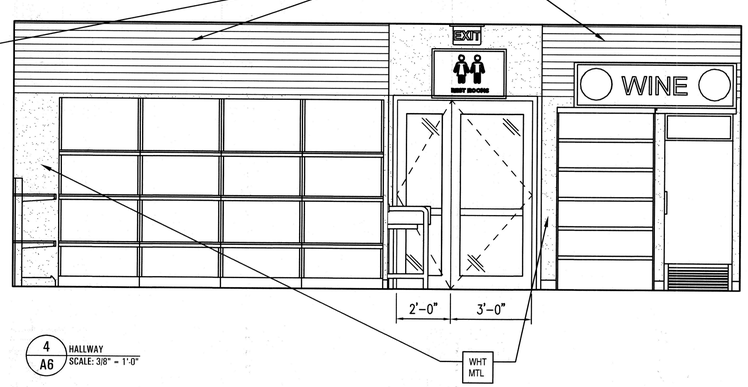
1 / A6 COOLER WALL
SCALE: 3/8" = 1'-0"



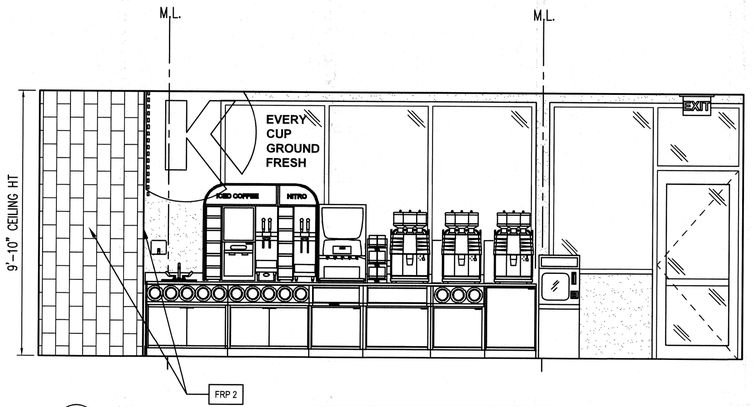
2 / A6 COFFEE STATION
SCALE: 3/8" = 1'-0"



3 / A6 FOUNTAIN WALL
SCALE: 3/8" = 1'-0"



4 / A6 HALLWAY
SCALE: 3/8" = 1'-0"



5 / A6 FOOD STATION
SCALE: 3/8" = 1'-0"

A8 INTERIOR ELEVATIONS
SCALE: 3/8" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

NOTE:
REFER TO SHEET A3 FOR SCHEDULE

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DATE	BY	CHK	REVISIONS

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Voice: (800) 366-6385
Fax: (770) 483-6037
fms@freymoss.com

ENGINEER OF RECORD:
Charles H. Moss, PE
P.O. Box 28
Covington, GA 30015
Email: chmai@aol.com

CUSTOMER:
CIRCLE K

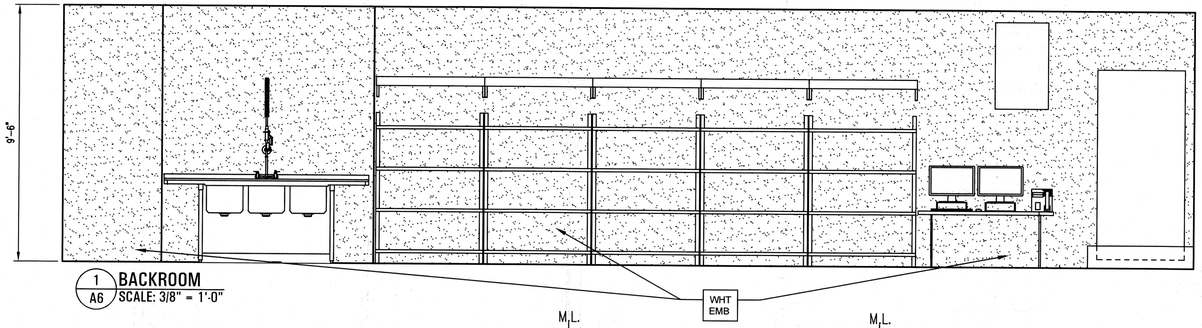
43'-10" X 92'-9" Modular Building
Interior Elevations

DRAWN BY: JC
DATE: 07/15/26
CHECKED BY:
DATE:

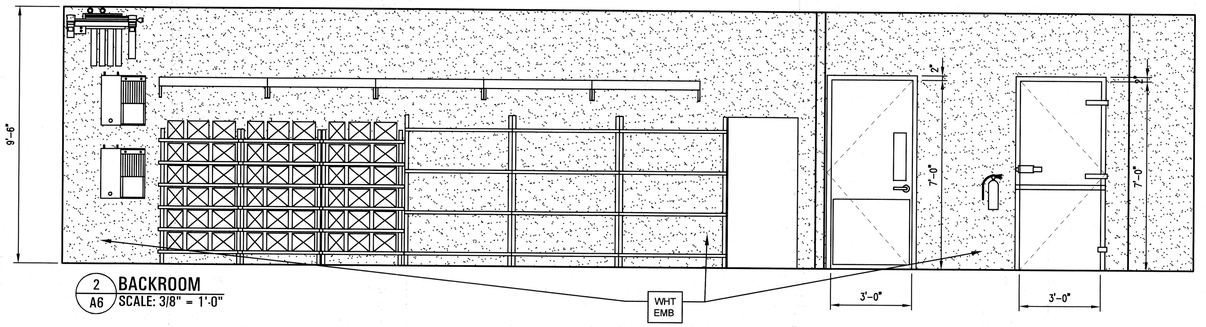
NORTH CAROLINA PROFESSIONAL SEAL 11006 ENGINEER CHARLES HOWARD MOSS
9-11-26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	3/8" = 1'-0"
DRAWING #	-

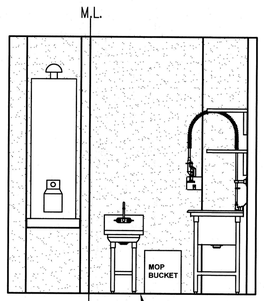
A8
8 OF 10



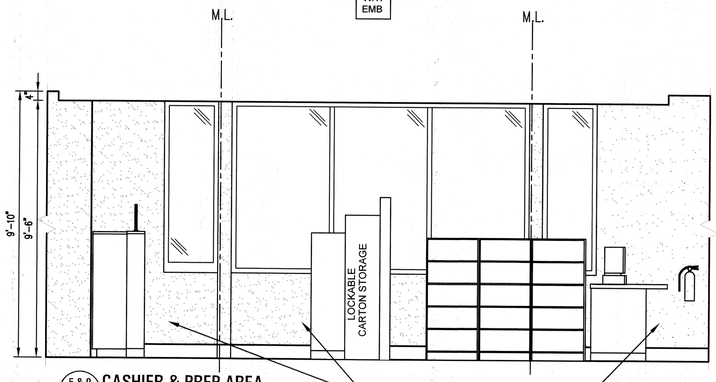
1 / A6 **BACKROOM**
SCALE: 3/8" = 1'-0"



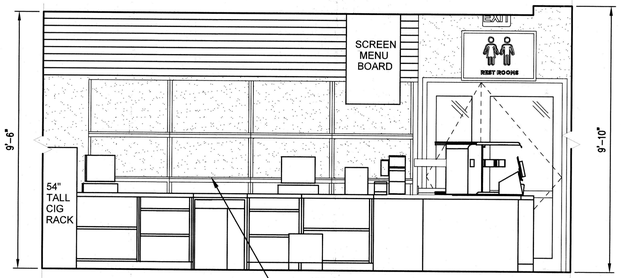
2 / A6 **BACKROOM**
SCALE: 3/8" = 1'-0"



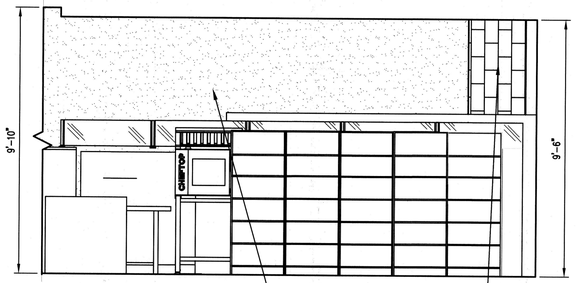
3 / A6 **BACKROOM**
SCALE: 3/8" = 1'-0"



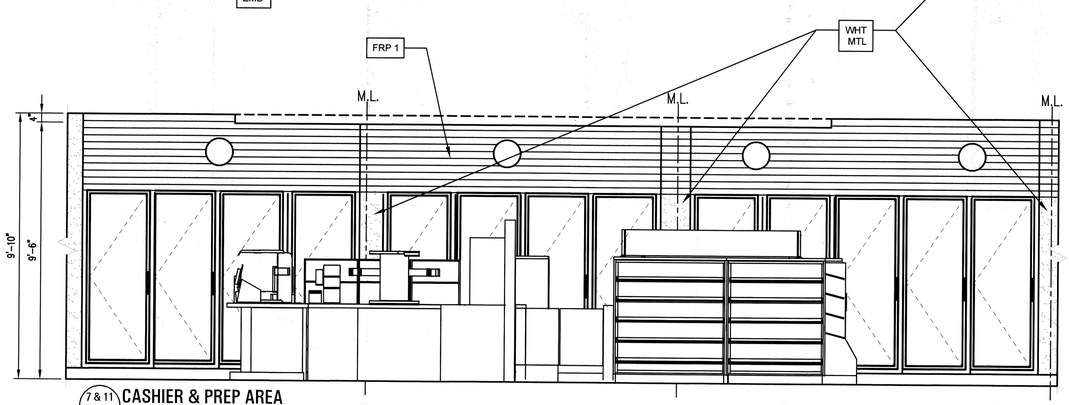
5 & 9 / A6 **CASHIER & PREP AREA**
SCALE: 3/8" = 1'-0"



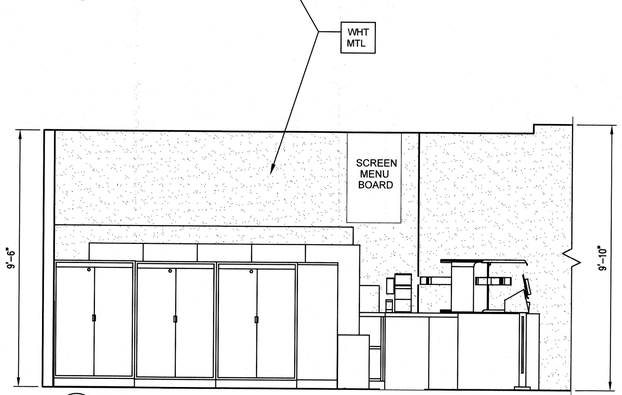
6 / A6 **CASHIER**
SCALE: 3/8" = 1'-0"



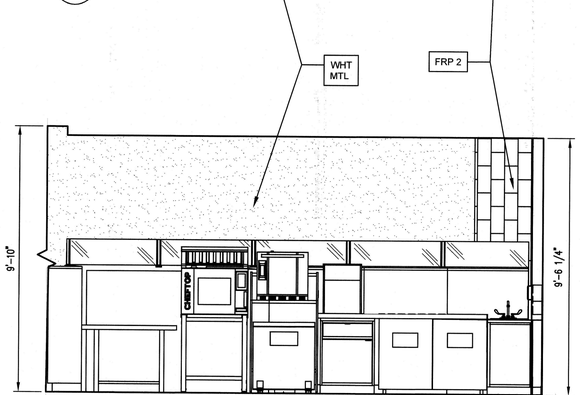
8 / A6 **CASHIER**
SCALE: 3/8" = 1'-0"



7 & 11 / A6 **CASHIER & PREP AREA**
SCALE: 3/8" = 1'-0"



10 / A6 **PREP AREA**
SCALE: 3/8" = 1'-0"



12 / A6 **PREP AREA**
SCALE: 3/8" = 1'-0"

A9 **INTERIOR ELEVATIONS**
SCALE: 3/8" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

NOTE:
REFER TO SHEET A3 FOR SCHEDULE

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DATE	BY	CHK	REVISIONS
08/04/26	J.C		CO 05/28/26 CORRECTIONS MADE PER CO

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Fax: (770) 483-6037
fms@freymoss.com

ENGINEER OF RECORD:
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P.O. Box 28
Covington, GA 30015
Email: chmai@aol.com

CUSTOMER:
CIRCLE K

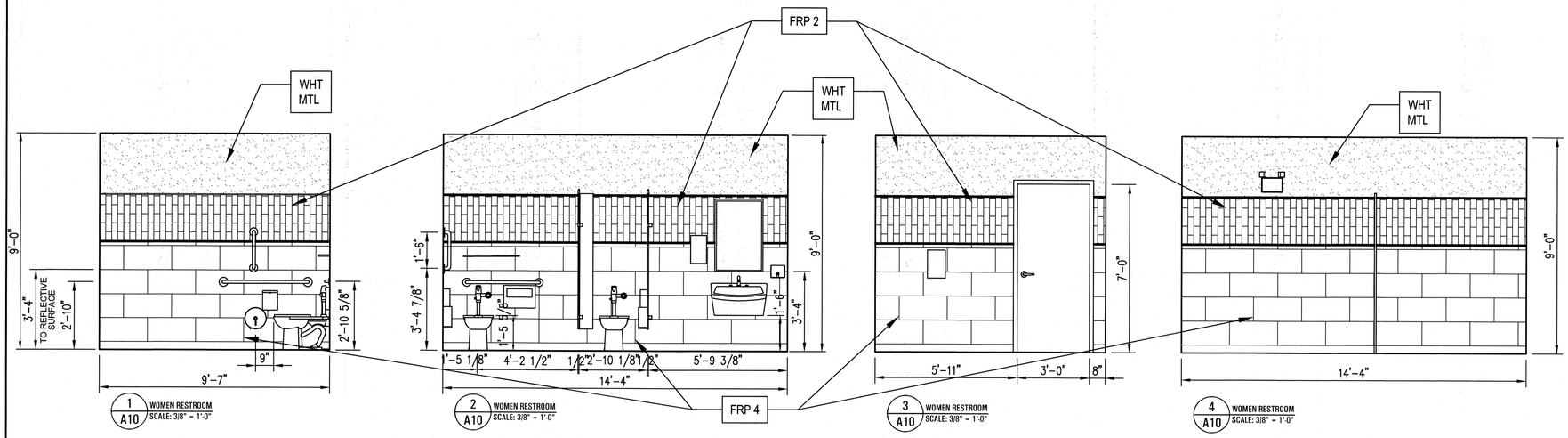
43'-10" X 92'-9" Modular Building
Interior Elevation

DRAWN BY: J.C.
DATE: 07/10/26
CHECKED BY: A.R.
DATE: 02/02/2026

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 11066 ENGINEER CHARLES H. MOSS
8-11-26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	3/8" = 1'-0"
DRAWING #	-

A9
9 OF 10

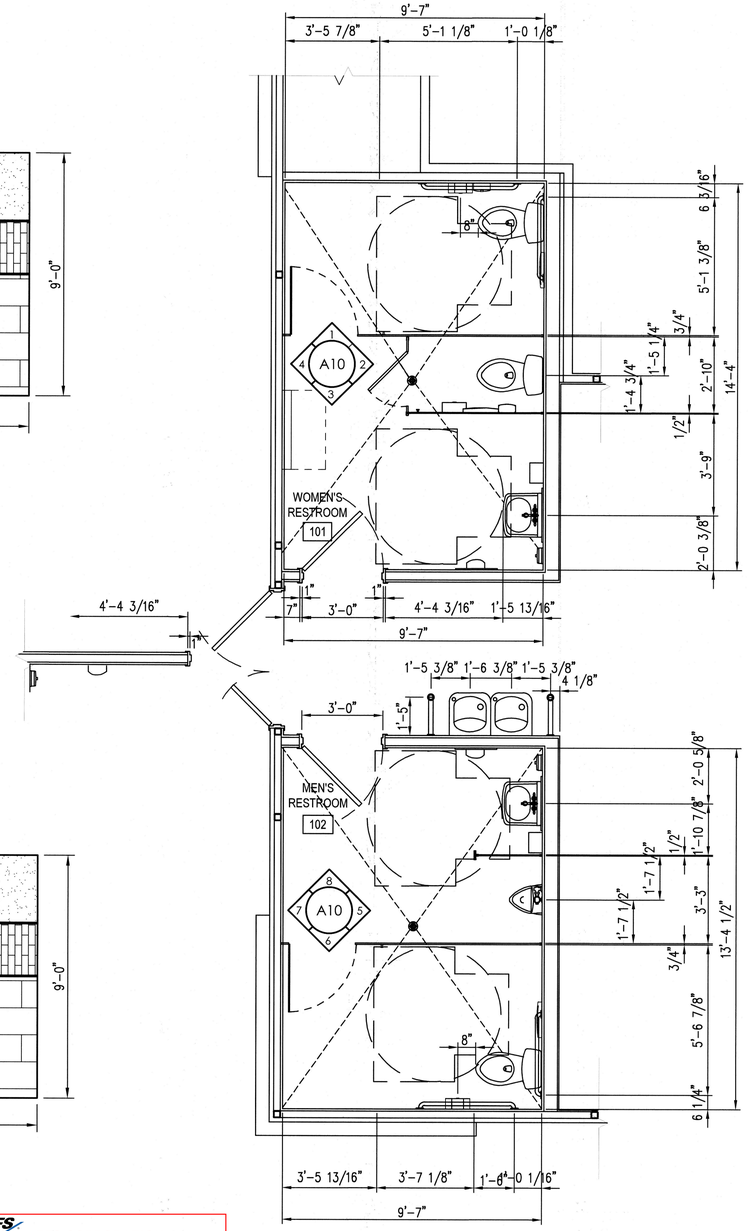


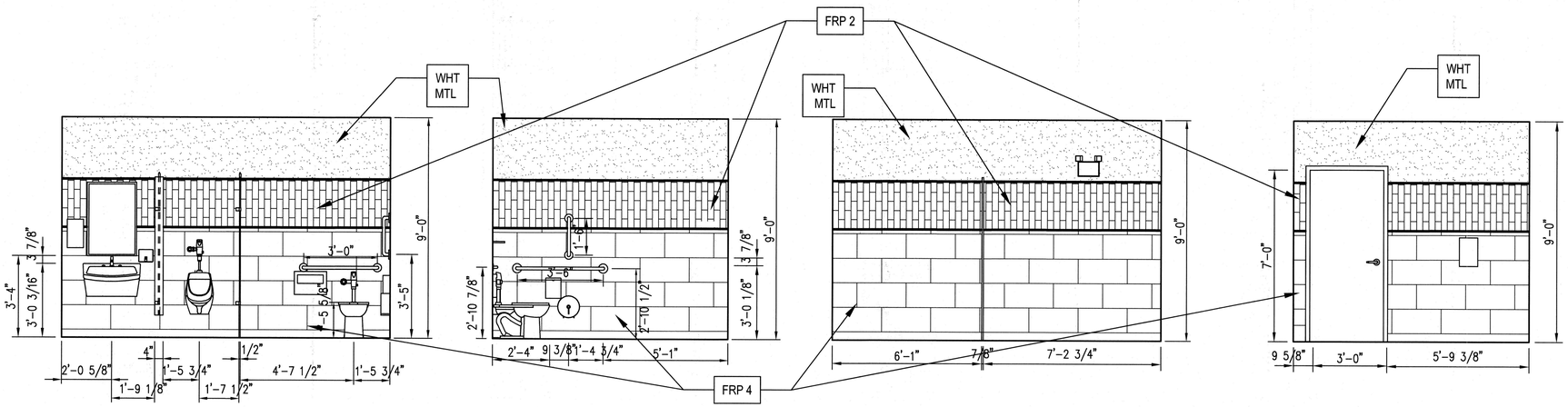
1 A10 WOMEN RESTROOM SCALE: 3/8" = 1'-0"

2 A10 WOMEN RESTROOM SCALE: 3/8" = 1'-0"

3 A10 WOMEN RESTROOM SCALE: 3/8" = 1'-0"

4 A10 WOMEN RESTROOM SCALE: 3/8" = 1'-0"





5 A10 MEN RESTROOM SCALE: 3/8" = 1'-0"

6 A10 MEN RESTROOM SCALE: 3/8" = 1'-0"

7 A10 MEN RESTROOM SCALE: 3/8" = 1'-0"

8 A10 MEN RESTROOM SCALE: 3/8" = 1'-0"

A10 INTERIOR ELEVATIONS SCALE: 3/8" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

NOTE:
REFER TO SHEET A3 FOR SCHEDULE

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DATE	BY	CHK	REVISIONS

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1142 Willow Run Road
Greensboro, GA 30642
Voice: (800) 366-6385
Fax: (770) 483-6037
fms@freymoss.com

ENGINEER OF RECORD:
Charles H. Moss, PE
P.O. Box 28
Covington, GA 30015
Email: chmai@aol.com

CUSTOMER:

CIRCLE K

43'-10" X 92'-9" Modular Building Interior Elevations

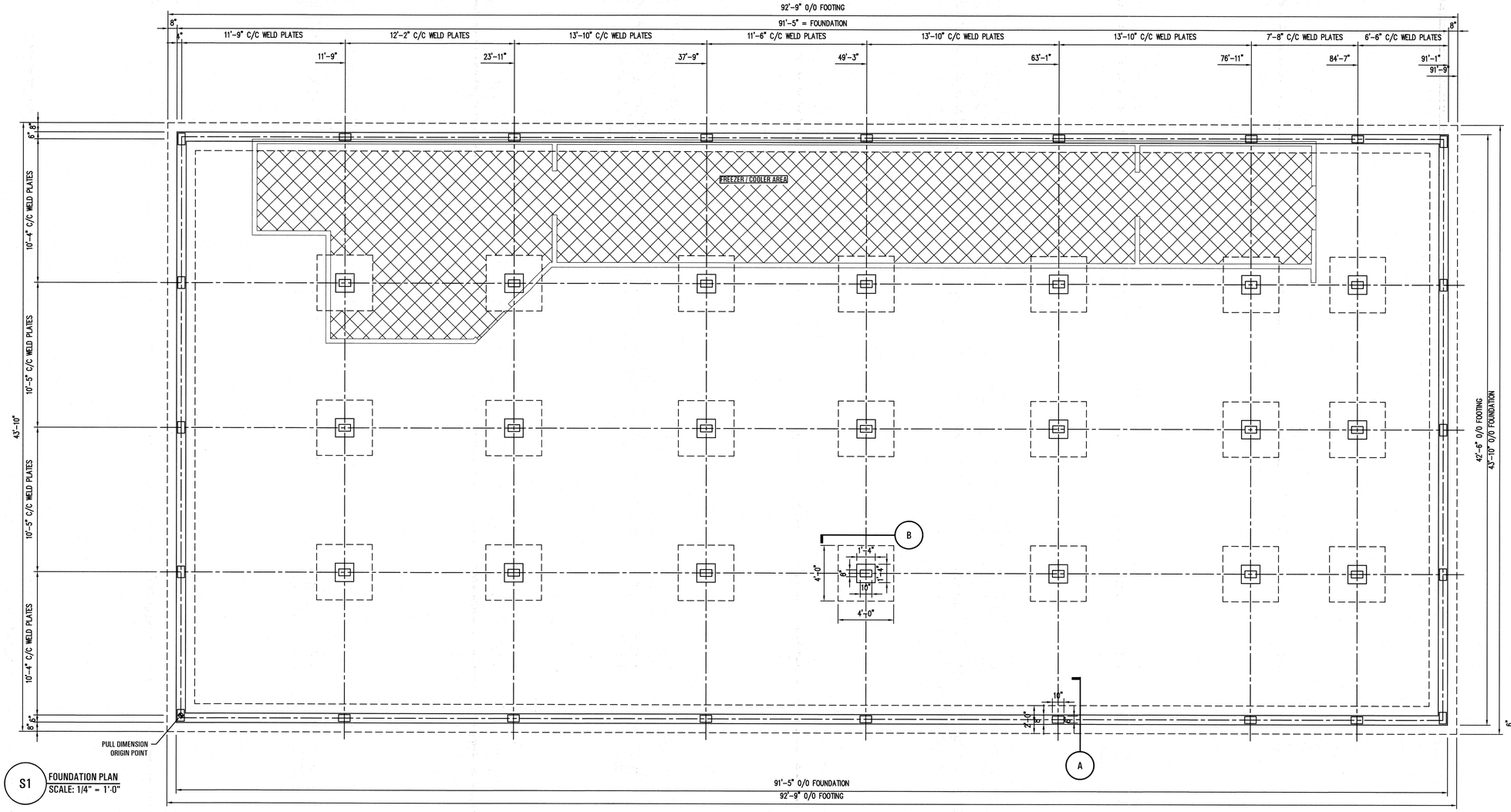
DRAWN BY: J.C.
DATE: 07/15/26
CHECKED BY:
DATE:

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 31066 ENGINEER CHARLES H. MOSS 07/15/26

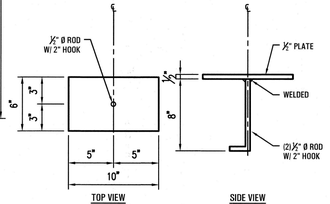
JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE : 3/8" = 1'-0"	
DRAWING # -	

A10
10 OF 10

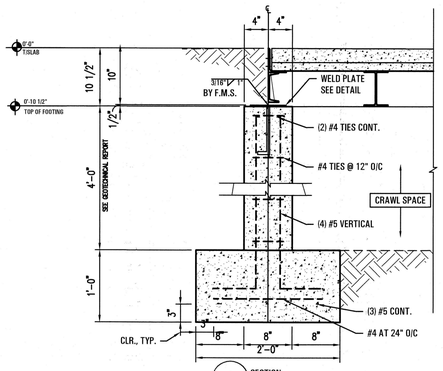
NOTE:
THIS FOUNDATION PLAN WAS DESIGNED PER THE FOLLOWING GEO-TECHNICAL ENGINEER'S REPORT:
COMPANY -
PROJECT # -
DATED -



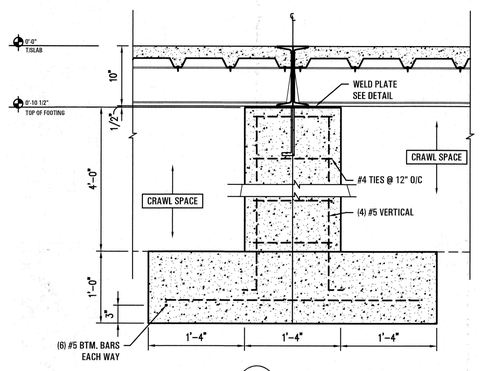
S1 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



WELD PLATE DETAIL
SCALE: 1 1/2" = 1'-0"
(FURNISHED AND INSTALLED BY G.C.)



A SECTION
SCALE: 1" = 1'-0"

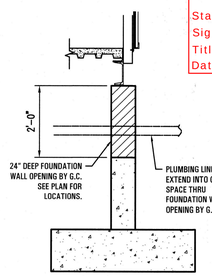


B SECTION
SCALE: 1" = 1'-0"

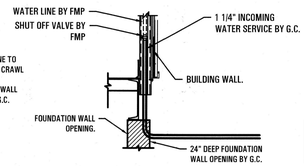
FIELD NOTES:
1. SECURE BUILDING BY WELDING BASE CHANNEL TO WELD PLATES.
2. ALL P-TRAPS FOR EQUIPMENT INSIDE THE BUILDING BY FMS.
3. ALL P-TRAPS FOR FLOOR DRAINS AND FLOOR SINKS UNDER BUILDING ARE PVC AND SUPPLIED BY FMS.
4. ALL GREASE TRAPS AND SANITARY SEWER CONNECTIONS TO POINTS INDICATED ARE PVC OR PER LOCAL CODE AND SUPPLIED BY G.C.
5. TOP OF FOOTINGS TO BE LEVEL WITHIN ± 1/4" TOL.
6. REFERENCE OWNER - ENGINEERED SITE PLANS FOR LOCATIONS OF GREASE TRAP, SEWER, WATER MAIN, SITE LIGHTING AND ELECTRICAL SERVICE.
7. SETTLING OF THE FOOTINGS IS THE CONTRACTOR'S RESPONSIBILITY. FOUNDATIONS ARE DESIGNED FOR A MINIMUM OF 2000 PSF SOIL BEARING PRESSURE.
8. CONCRETE TO BE MINIMUM 3000 PSI.

DO NOT USE THIS DRAWING FOR CONSTRUCTION UNLESS APPROVED BY FMS IN SPACE BELOW.
DATE: _____
NAME: NAME
SIGNED: ##/##/##

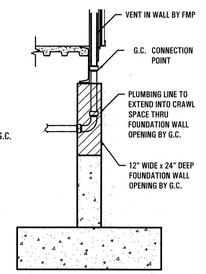
PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026



C SECTION
SCALE: N.T.S.



D SECTION
SCALE: N.T.S.



E SECTION
SCALE: N.T.S.

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DATE	BY	CHK	REVISIONS

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Greensboro, GA 30642
Voice: (800) 366-6385
Fax: (770) 483-6037
fms@freymoss.com

ENGINEER OF RECORD:
Charles H. Moss, PE
P.O. Box 28
Covington, GA 30015
Email: chmai@aol.com

CUSTOMER:

CIRCLE K

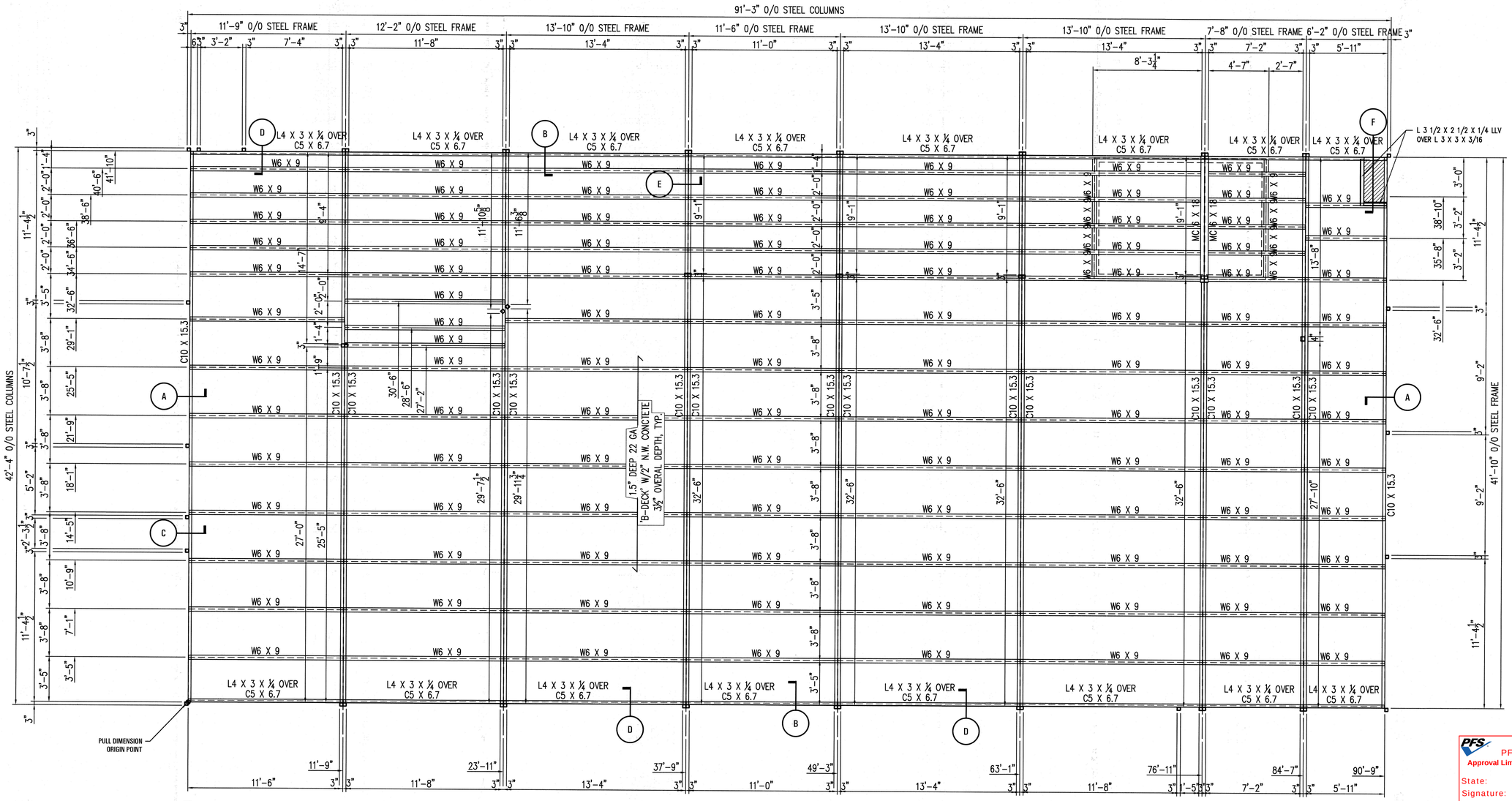
43'-10" X 92'-9" Modular Building Foundation Plan

DRAWN BY: J.C.
DATE: 8/11/2026
CHECKED BY: A.R.
DATE: 02/02/2026

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11056 ENGINEER CHARLES H. MOSS 8/11/26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE : 1/4" = 1'-0"	
DRAWING # -	

S1
1 OF 15

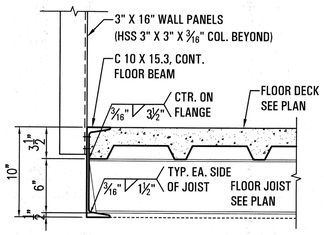


S2 FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"

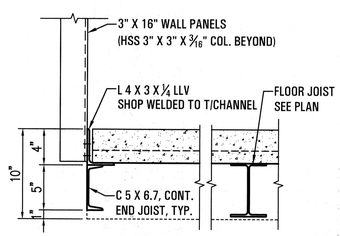
DENOTES WHEEL LOCATION
DENOTES L 3" X 3" X 3/16" TEMPORARY COLUMN
DENOTES H.S.S. 3" X 3" X 3/16" LIFTING COLUMN
DENOTES H.S.S. 3" X 3" X 3/16" COLUMN
DENOTES H.S.S. 3" X 3" X 1/4" COLUMN (INTERIOR COLUMNS)

NOTE:
DIMENSIONS ARE TO BACK OF CHANNEL OR CENTERLINE OF BEAM, U.N.O.

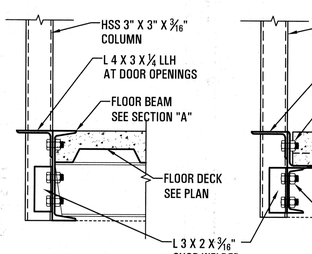
ALL EXTERIOR COLUMNS ARE HSS 3 x 3 x 3/16, U.N.O.
ALL INTERIOR COLUMNS ARE HSS 3 X 3 X 1/4, U.N.O.



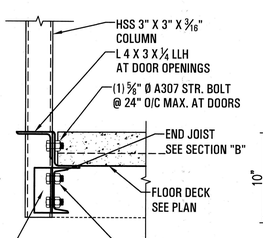
A SECTION
SCALE: 1 1/2" = 1'-0"



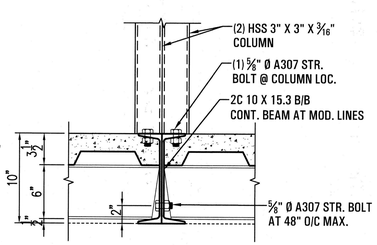
B SECTION
SCALE: 1 1/2" = 1'-0"



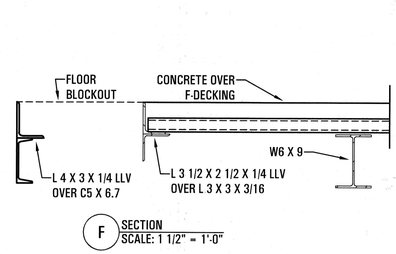
C SECTION
SCALE: 1 1/2" = 1'-0"



D SECTION
SCALE: 1 1/2" = 1'-0"



E SECTION
SCALE: 1 1/2" = 1'-0"



F SECTION
SCALE: 1 1/2" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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DATE	BY	CHK	REVISIONS

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Voice: (800) 366-6385
Fax: (770) 483-6037
fms@freymoss.com

ENGINEER OF RECORD:
Charles H. Moss, PE
P.O. Box 28
Covington, GA 30015
Email: chmai@aol.com

CUSTOMER:
CIRCLE K

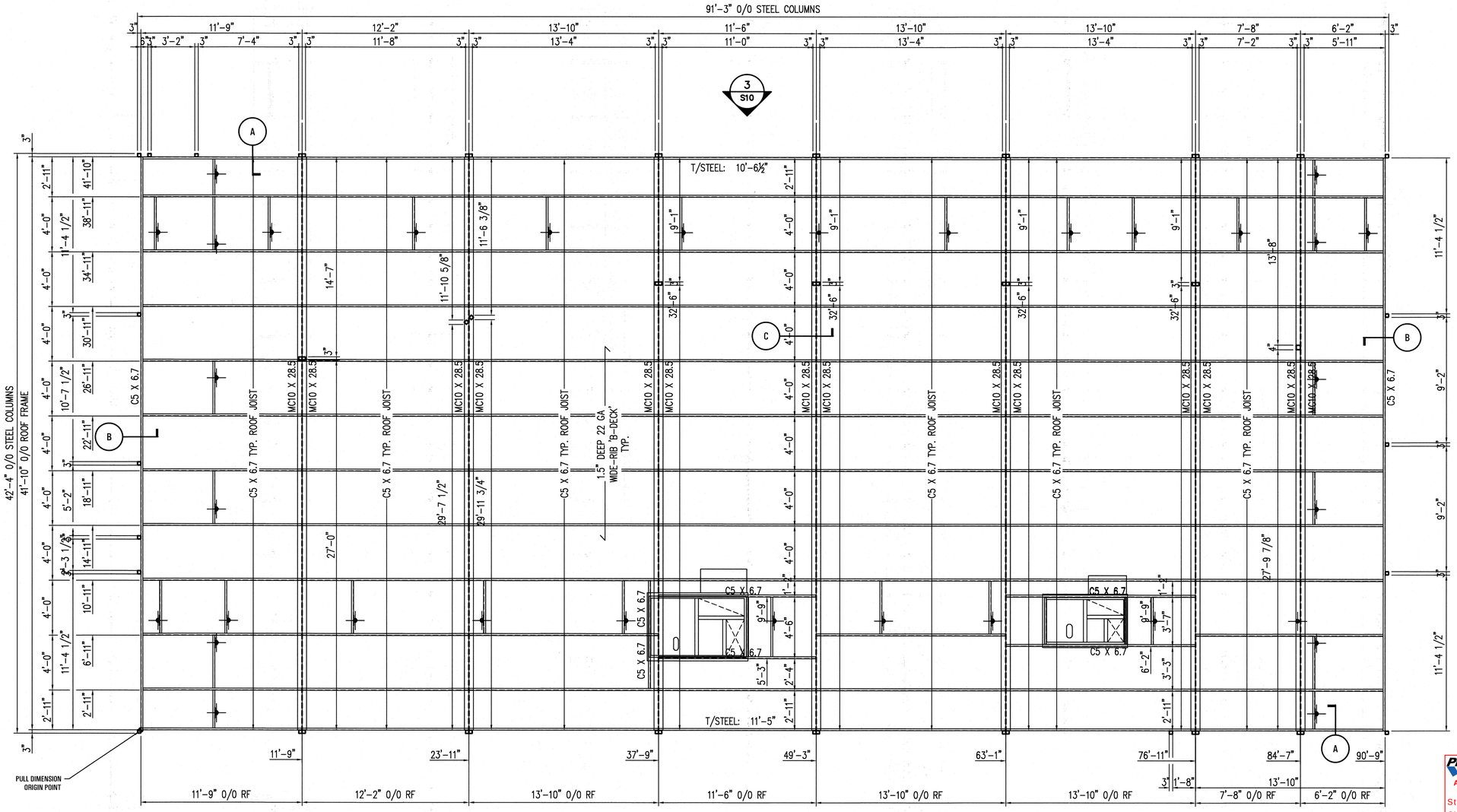
43'-10" X 92'-9" Modular Building
Floor Framing Plan

DRAWN BY: J.C.
DATE: 8/11/2026
CHECKED BY: A.R.
DATE: 02/02/2026

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11066 ENGINEER CHARLES H. MOSS 8-11-26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	1/4" = 1'-0"
DRAWING # -	

S2
2 OF 15

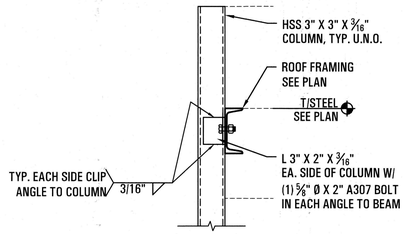


S3 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

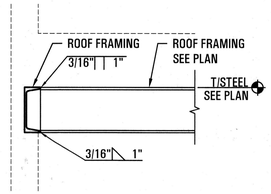
PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

- DENOTES L 3" X 3" X 3/16" TEMPORARY COLUMN
- DENOTES H.S.S. 3" X 3" X 3/16" LIFTING COLUMN
- DENOTES H.S.S. 3" X 3" X 3/16" COLUMN
- DENOTES H.S.S. 3" X 3" X 1/4" COLUMN - (INTERIOR COLUMNS)

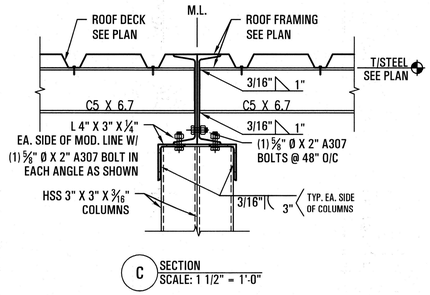
NOTE:
- DIMENSIONS ARE TO BACK OF CHANNEL OR CENTERLINE OF BEAM, U.N.O.
- ALL EXTERIOR COLUMNS ARE HSS 3 x 3 x 3/16, U.N.O.
- ALL INTERIOR COLUMNS ARE HSS 3 X 3 X 1/4, U.N.O.



A SECTION
SCALE: 1 1/2" = 1'-0"



B SECTION
SCALE: 1 1/2" = 1'-0"



C SECTION
SCALE: 1 1/2" = 1'-0"

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Fax: (770) 483-6037
fms@freymoss.com

ENGINEER OF RECORD:
Charles H. Moss, PE
P.O. Box 28
Covington, GA 30015
Email: chmai@aol.com

CUSTOMER:

CIRCLE K

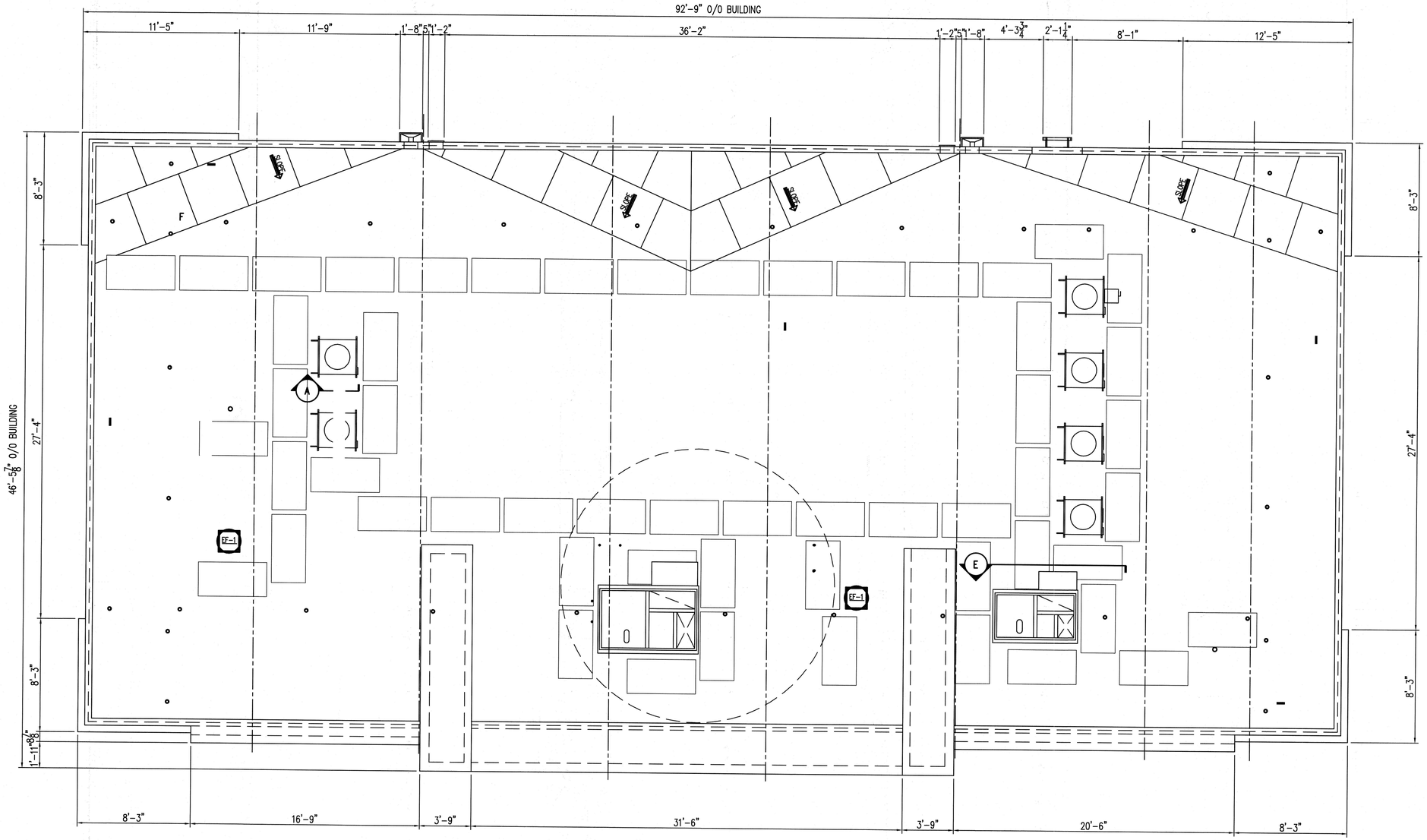
43'-10" X 92'-9" Modular Building
Roof Framing Plan

DRAWN BY: J.C. / G.G.
DATE: 8/11/2026
CHECKED BY: A.R.
DATE: 02/02/2026

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11068 ENGINEER CHARLES H. MOSS

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE:	1/4" = 1'-0"
DRAWING # -	

S3



S4 ROOF PLAN
SCALE: 1/4" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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DATE	BY	CHK	REVISIONS

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fms@freymoss.com

ENGINEER OF RECORD:
Charles H. Moss, PE
P.O. Box 28
Covington, GA 30015
Email: chmai@aol.com

CUSTOMER:

CIRCLE K

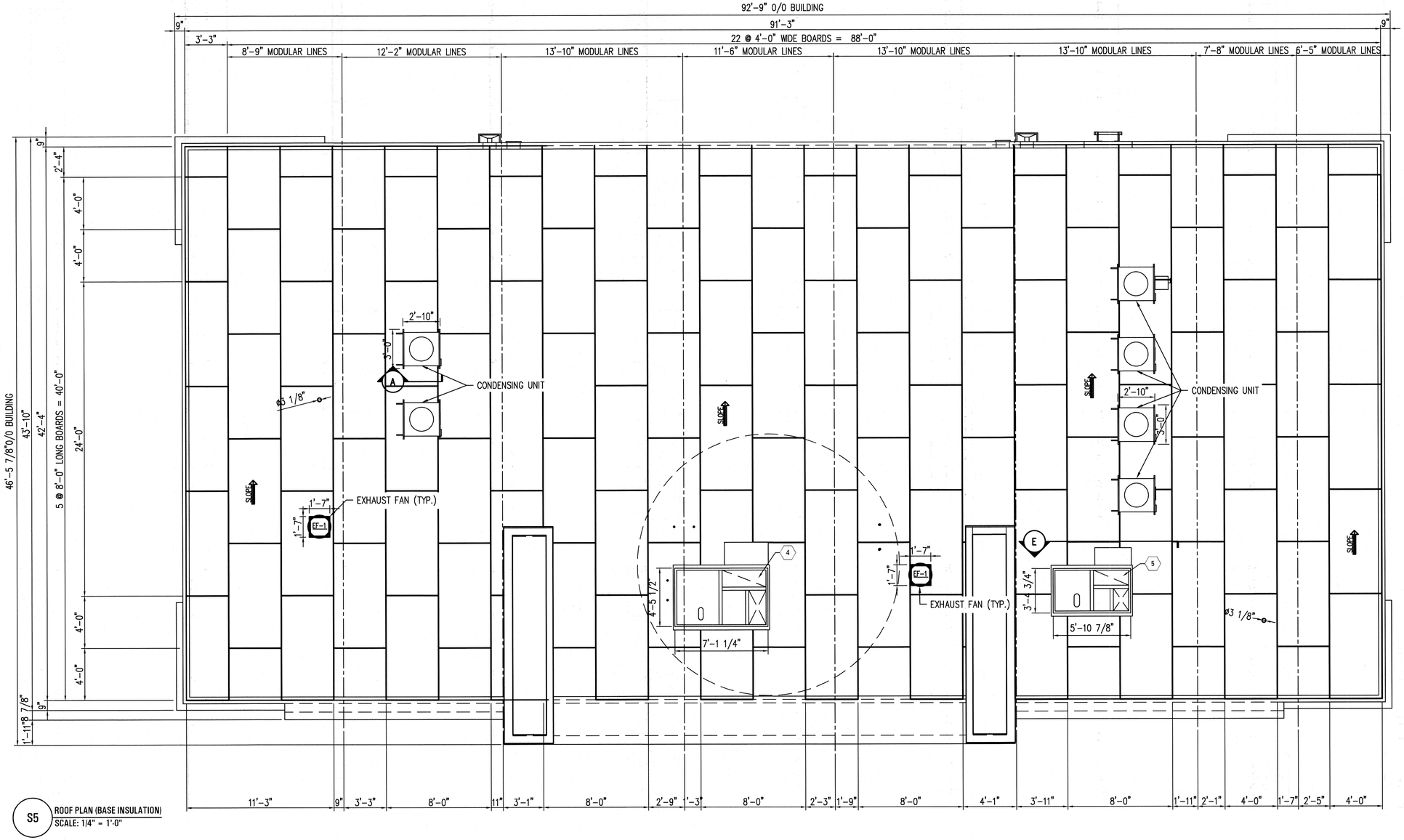
43'-10" X 92'-9" Modular Building
Roof Plan

DRAWN BY: Y.C. / V.G.
DATE: 2/2/2026
CHECKED BY: A.R.
DATE: 02/02/2026

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11066 ENGINEER CHARLES H. MOSS 09/16/26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	1/4" = 1'-0"
DRAWING # :	

S4
4 OF 15



S5 ROOF PLAN (BASE INSULATION)
SCALE: 1/4" = 1'-0"

FIELD SCOPE OF WORK	
1	SEAM MOD-LINES
2	INSTALL PARAPET WALL MEMBRANE AND SEAM PARAPET WALL MEMBRANE
3	INSTALL TERMINATION BAR ON WALL, J-BOXES AND PITCH PANS AS REQUIRED
4	INSTALL ANY CURBS/ ROOF ASSEMBLIES REQUIRED FOR FIELD INSTALLATION
5	INSTALL BOOTS AND PANDUIT STRAPS AS REQUIRED
6	FILL, CAULK & WATERPROOF ALL PITCH PANS, J-BOXES OR VOIDS IN PANDUIT STRAPPING
7	INSTALL WALK PADS
8	CLEAN ENTIRE ROOF OFF
9	SELF CHECK ALL WORK FOR COLD WELDS OR ANY MEMBRANE PUNCTURES, (MAKE ANY REPAIRS THAT ARE NECESSARY)
10	CALL FOR INSPECTION AFTER COMPLETION
11	TAKE MULTIPLE PICTURES OF COMPLETED WORK AND FORWARD TO FMS
12	BE PRESENT AT THE TIME OF INSPECTION & CORRECT ANY ITEMS FROM THE INSPECTOR TO ACQUIRE WARRANTY
13	FORWARD INSPECTION REPORT TO FMS
14	FORWARD WARRANTY INFORMATION TO FMS ONCE RECEIVED

NOTES:
- USE 4" THICK DURO-GUARD ISO II INS.R-23.60 (4800 SQ. FT. REQ'D.)

DURO-LAST ITEMS	
	MAIN ROOF MEMBRANE: 50 MIL "WHITE" PARAPET MEMBRANE: 50 MIL "TAN"
1	CURB FLASHING - (6 REQ.) 2'-10" X 3'-0" FOR CONDENSING UNITS
2	CURB FLASHING - (1 REQ.) 1'-7" X 1'-7" FOR EXHAUST UNITS
3	CURB FLASHING - (1 REQ.) 1'-7" X 1'-7" FOR R/R EXHAUST FANS
4	CURB FLASHING - (1 REQ.) 16" TALL X 7'-1 1/4" X 4'-5 1/2" FOR RTU
5	CURB FLASHING - (1 REQ.) 16" TALL X 5'-10 7/8" X 3'-4 3/4" FOR RTU
6	DUROLAST CLOSED 4"Ø STACKS/BOOTS - (5 REQ.) FOR 3⅛" VENT
7	DUROLAST WHITE WALK PADS MEMBRANE WITH YELLOW SAFETY STRIPES - (54 REQ.)
8	DUROLAST CLOSED 1"Ø STACKS/BOOTS - (# REQ.) FOR 1/2" EMT CONDUIT STUB UP 2'-0" ABOVE ROOF
9	DUROLAST OPEN 2"Ø STACKS/BOOTS - (# REQ.) FOR AVCOA UNIT STANDS (4) PER UNIT
10	DUROLAST CLOSED 4"Ø STACKS/BOOTS - (# REQ.) SEE REFRIGERANT ROOF PENETRATION DETAIL
11	DUROLAST OPEN 11"Ø STACKS/BOOTS - (# REQ.) FOR 8" PVC SLEEVE FOR WATER HEATER FLUE AND COMBUSTION AIR DUCT THROUGH ROOF PER MANUFACTURER'S RECOMMENDATIONS.
12	(2 REQ) COLLECTOR BOX W/ 4" x 16" SCUPPER, 4 3/4" x 5 3/4" OUTLET W/ 5" x 6" x 16'-0" LG. DOWNSPOUT, PRE-FINISHED DARK BRONZE.
13	(2 REQ) 4" x 16" OVERFLOW SCUPPER W/ TRIM, PRE-FINISHED DARK BRONZE.
14	DUROLAST OPEN 2"Ø STACKS/BOOTS - (# REQ) FOR GAS 1 1/2"Ø GAS LINE PENETRATION
14A	DUROLAST OPEN 4"Ø STACKS/BOOTS - (# REQ) FOR GAS 3"Ø GAS LINE PENETRATION
15	12" x 12" DUROLAST SUPPORT PADS AND KNUCKLEHEAD PIPE STANDS

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

NOTE:
- FOR LAYOUT WITH DIMENSIONS, SEE DWG #S4
- SEE DUROLAST DETAILS ON DRAWING #S8
- HATCHED PARAPETS ARE EXTENDED PARAPETS
- ROOF CRICKETS NOT SHOWN FOR CLARITY, SEE LAYOUT ON DWG #S4

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DATE	BY	CHK	REVISIONS
06/05/26	J.C.		CO 05/28/26 UPDATED MOST OF THE DUROLAST TABLE

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Fax: (770) 483-6037
fms@freymoss.com

ENGINEER OF RECORD:
Charles H. Moss, PE
P.O. Box 28
Covington, GA 30015
Email: chmai@aol.com

CUSTOMER:

CIRCLE K

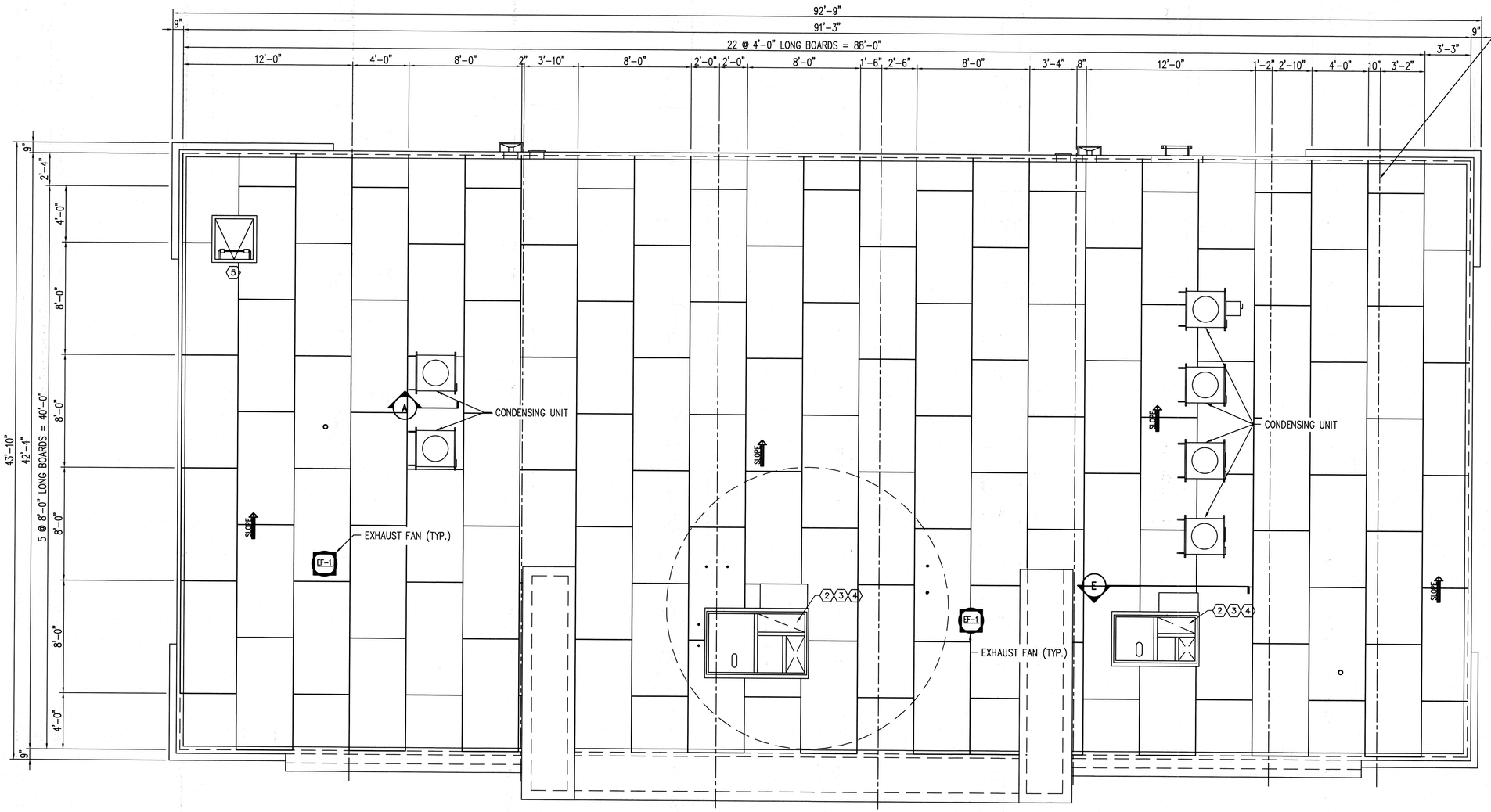
43'-10" X 92'-9" Modular Building
Roof Plan (Base Insulation)

DRAWN BY: J.C.
DATE: 06/05/26
CHECKED BY: A.B.
DATE: 02/02/2026

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11985 ENGINEER CHARLES H. MOSS

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	1/4" = 1'-0"
DRAWING #	-

S5
5 OF 15



MODULE LINE TO LEAVE OUT 1'-0" LONG SECTION OF 3/4" PLYWOOD @ TOP OF PARAPET WALLS, TYP. FIELD ERECTOR TO FILL IN PLYWOOD PRIOR TO DURO-LAST FIELD INSTALLATION @ EACH FIELD JOINT.

FIELD SCOPE OF WORK	
1	SEAM MOD-LINES
2	INSTALL PARAPET WALL MEMBRANE AND SEAM PARAPET WALL MEMBRANE
3	INSTALL TERMINATION BAR ON WALL, J-BOXES AND PITCH PANS AS REQUIRED
4	INSTALL ANY CURBS/ ROOF ASSEMBLIES REQUIRED FOR FIELD INSTALLATION
5	INSTALL BOOTS AND PANDUIT STRAPS AS REQUIRED
6	FILL, CAULK & WATERPROOF ALL PITCH PANS, J-BOXES OR VOIDS IN PANDUIT STRAPPING
7	INSTALL WALK PADS
8	CLEAN ENTIRE ROOF OFF
9	SELF CHECK ALL WORK FOR COLD WELDS OR ANY MEMBRANE PUNCTURES, (MAKE ANY REPAIRS THAT ARE NECESSARY)
10	CALL FOR INSPECTION AFTER COMPLETION
11	TAKE MULTIPLE PICTURES OF COMPLETED WORK AND FORWARD TO FMS
12	BE PRESENT AT THE TIME OF INSPECTION & CORRECT ANY ITEMS FROM THE INSPECTOR TO ACQUIRE WARRANTY
13	FORWARD INSPECTION REPORT TO FMS
14	FORWARD WARRANTY INFORMATION TO FMS ONCE RECEIVED

NOTES:

- USE 4" THICK DURO-GUARD ISO II INS.R-23.60 (4800 SQ. FT. REQ'D.)

DURO-LAST ITEMS	
	MAIN ROOF MEMBRANE: 50 MIL "WHITE" PARAPET MEMBRANE: 50 MIL "TAN"
1	CURB FLASHING - (6 REQ.) 2'-10" X 3'-0" FOR CONDENSING UNITS
2	CURB FLASHING - (1 REQ.) 1'-7" X 1'-7" FOR EXHAUST UNITS
3	CURB FLASHING - (1 REQ.) 1'-7" X 1'-7" FOR R/R EXHAUST FANS
4	CURB FLASHING - (1 REQ.) 16" TALL X 7'-1 1/4" X 4'-5 1/2" FOR RTU
5	CURB FLASHING - (1 REQ.) 16" TALL X 5'-10 7/8" X 3'-4 3/4" FOR RTU
6	DUROLAST CLOSED 4"Ø STACKS/BOOTS - (5 REQ.) FOR 3 1/8" VENT
7	DUROLAST WHITE WALK PADS MEMBRANE WITH YELLOW SAFETY STRIPES - (54 REQ.)
8	DUROLAST CLOSED 1"Ø STACKS/BOOTS - (# REQ.) FOR 1/2" EMT CONDUIT STUB UP 2'-0" ABOVE ROOF
9	DUROLAST OPEN 2"Ø STACKS/BOOTS - (# REQ.) FOR AVCOA UNIT STANDS (4) PER UNIT
10	DUROLAST CLOSED 4"Ø STACKS/BOOTS - (# REQ.) SEE REFRIGERANT ROOF PENETRATION DETAIL
11	DUROLAST OPEN 11"Ø STACKS/BOOTS - (# REQ.) FOR 8" PVC SLEEVE FOR WATER HEATER FLUE AND COMBUSTION AIR DUCT THROUGH ROOF PER MANUFACTURER'S RECOMMENDATIONS.
12	(2 REQ) COLLECTOR BOX W/ 4" x 16" SCUPPER, 4 3/4" x 5 3/4" OUTLET W/ 5" x 6" x 16'-0" LG. DOWNSPOUT, PRE-FINISHED DARK BRONZE.
13	(2 REQ) 4" x 16" OVERFLOW SCUPPER W/ TRIM, PRE-FINISHED DARK BRONZE.
14	DUROLAST OPEN 2"Ø STACKS/BOOTS - (# REQ) FOR GAS 1 1/2"Ø GAS LINE PENETRATION
14A	DUROLAST OPEN 4"Ø STACKS/BOOTS - (# REQ) FOR GAS 3"Ø GAS LINE PENETRATION
15	12" x 12" DUROLAST SUPPORT PADS AND KNUCKLEHEAD PIPE STANDS

S6 ROOF PLAN (COVERBOARD)
SCALE: 1/4" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

NOTE:

- FOR LAYOUT WITH DIMENSIONS, SEE DWG #S4
- SEE DUROLAST DETAILS ON DRAWING #S8
- HATCHED PARAPETS ARE EXTENDED PARAPETS
- ROOF CRICKETS NOT SHOWN FOR CLARITY, SEE LAYOUT ON DWG #S4

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DATE	BY	CHK	REVISIONS
06/05/26	J.C.		CO 05/28/26 UPDATED MOST OF THE DUROLAST

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fms@freymoss.com

ENGINEER OF RECORD:
Charles H. Moss, PE
P.O. Box 28
Covington, GA 30015
Email: chmai@aol.com

CUSTOMER:
CIRCLE K

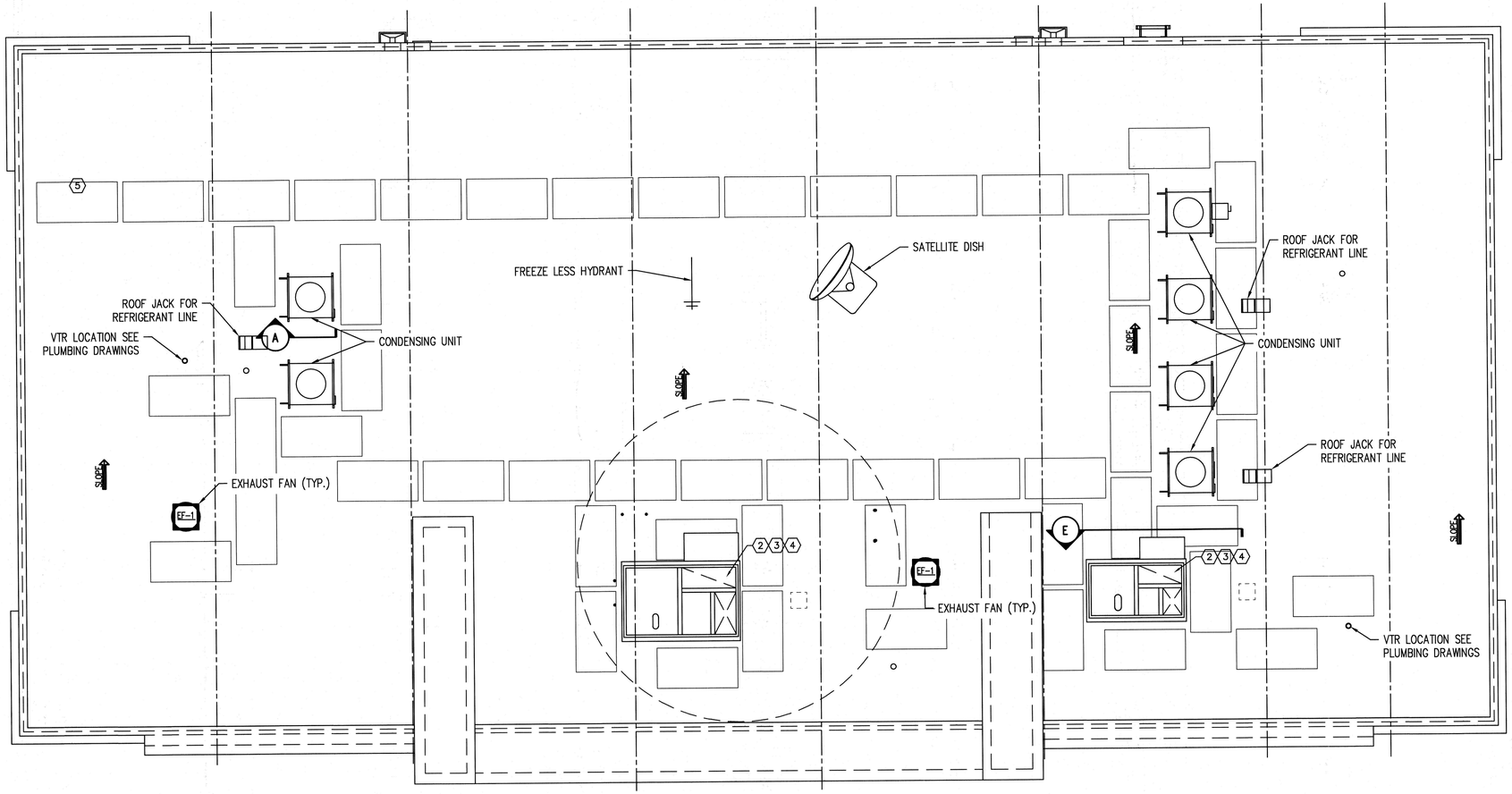
43'-10" X 92'-9" Modular Building
Roof Plan (Coverboard)

DRAWN BY: J.C.
DATE: 06/05/26
CHECKED BY: A.R.
DATE: 02/02/2026

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11066 ENGINEER CHARLES H. MOSS 8/11/26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	1/4" = 1'-0"
DRAWING # -	

S6
6 OF 15



S7 ROOF PLAN (ACCESSORIES)
SCALE: 1/4" = 1'-0"

FIELD SCOPE OF WORK	
1	SEAM MOD-LINES
2	INSTALL PARAPET WALL MEMBRANE AND SEAM PARAPET WALL MEMBRANE
3	INSTALL TERMINATION BAR ON WALL, J-BOXES AND PITCH PANS AS REQUIRED
4	INSTALL ANY CURBS/ ROOF ASSEMBLIES REQUIRED FOR FIELD INSTALLATION
5	INSTALL BOOTS AND PANDUIT STRAPS AS REQUIRED
6	FILL, CAULK & WATERPROOF ALL PITCH PANS, J-BOXES OR VOIDS IN PANDUIT STRAPPING
7	INSTALL WALK PADS
8	CLEAN ENTIRE ROOF OFF
9	SELF CHECK ALL WORK FOR COLD WELDS OR ANY MEMBRANE PUNCTURES, (MAKE ANY REPAIRS THAT ARE NECESSARY)
10	CALL FOR INSPECTION AFTER COMPLETION
11	TAKE MULTIPLE PICTURES OF COMPLETED WORK AND FORWARD TO FMS
12	BE PRESENT AT THE TIME OF INSPECTION & CORRECT ANY ITEMS FROM THE INSPECTOR TO ACQUIRE WARRANTY
13	FORWARD INSPECTION REPORT TO FMS
14	FORWARD WARRANTY INFORMATION TO FMS ONCE RECEIVED

NOTES:
- USE 4" THICK DURO-GUARD ISO II INS.R-23.60 (4800 SQ. FT. REQ'D.)

DURO-LAST ITEMS	
	MAIN ROOF MEMBRANE: 50 MIL "WHITE" PARAPET MEMBRANE: 50 MIL "TAN"
1	CURB FLASHING - (6 REQ.) 2'-10" X 3'-0" FOR CONDENSING UNITS
2	CURB FLASHING - (1 REQ.) 1'-7" X 1'-7" FOR EXHAUST UNITS
3	CURB FLASHING - (1 REQ.) 1'-7" X 1'-7" FOR R/R EXHAUST FANS
4	CURB FLASHING - (1 REQ.) 16" TALL X 7'-1 1/4" X 4'-5 1/2" FOR RTU
5	CURB FLASHING - (1 REQ.) 16" TALL X 5'-10 7/8" X 3'-4 3/4" FOR RTU
6	DUROLAST CLOSED 4"Ø STACKS/BOOTS - (5 REQ.) FOR 3⅛" VENT
7	DUROLAST WHITE WALK PADS MEMBRANE WITH YELLOW SAFETY STRIPES - (54 REQ.)
8	DUROLAST CLOSED 1"Ø STACKS/BOOTS - (# REQ.) FOR 1/2" EMT CONDUIT STUB UP 2'-0" ABOVE ROOF
9	DUROLAST OPEN 2"Ø STACKS/BOOTS - (# REQ.) FOR AVCOA UNIT STANDS (4) PER UNIT
10	DUROLAST CLOSED 4"Ø STACKS/BOOTS - (# REQ.) SEE REFRIGERANT ROOF PENETRATION DETAIL
11	DUROLAST OPEN 11"Ø STACKS/BOOTS - (# REQ.) FOR 8" PVC SLEEVE FOR WATER HEATER FLUE AND COMBUSTION AIR DUCT THROUGH ROOF PER MANUFACTURER'S RECOMMENDATIONS.
12	(2 REQ) COLLECTOR BOX W/ 4" x 16" SCUPPER, 4 3/4" x 5 3/4" OUTLET W/ 5" x 6" x 16'-0" LG. DOWNSPOUT, PRE-FINISHED DARK BRONZE.
13	(2 REQ) 4" x 16" OVERFLOW SCUPPER W/ TRIM, PRE-FINISHED DARK BRONZE.
14	DUROLAST OPEN 2"Ø STACKS/BOOTS - (# REQ) FOR GAS 1 1/2"Ø GAS LINE PENETRATION
14A	DUROLAST OPEN 4"Ø STACKS/BOOTS - (# REQ) FOR GAS 3"Ø GAS LINE PENETRATION
15	12" x 12" DUROLAST SUPPORT PADS AND KNUCKLEHEAD PIPE STANDS

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

NOTE:
- FOR LAYOUT WITH DIMENSIONS, SEE DWG #S4
- SEE DUROLAST DETAILS ON DRAWING #S8
- HATCHED PARAPETS ARE EXTENDED PARAPETS
- ROOF CRICKETS NOT SHOWN FOR CLARITY, SEE LAYOUT ON DWG #S4

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DATE	BY	CHK	REVISIONS
06/05/26	J.C.		CO 05/28/26 UPDATED MOST OF THE DUROLAST TABLE

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fms@freymoss.com

ENGINEER OF RECORD:
Charles H. Moss, PE
P.O. Box 28
Covington, GA 30015
Email: chmai@aol.com

CUSTOMER:
CIRCLE K

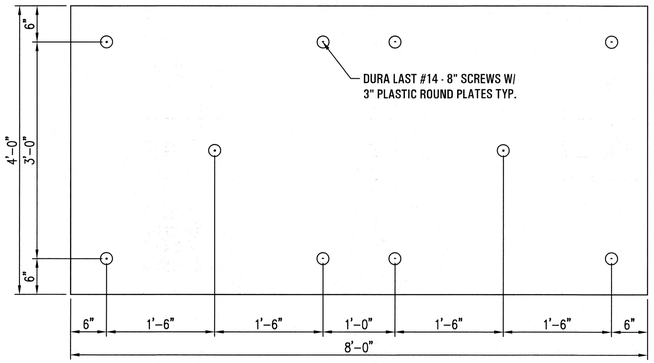
43'-10" X 92'-9" Modular Building
Roof Plan (Accessories)

DRAWN BY: J.C.
DATE: 06/05/26
CHECKED BY: A.R.
DATE: 02/02/2026

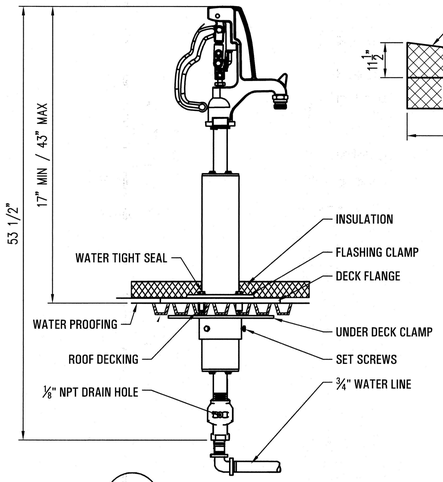
SEAL: NORTH CAROLINA PROFESSIONAL SEAL 21095 ENGINEER CHARLES H. MOSS
02/2/26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	1/4" = 1'-0"
DRAWING # :	-

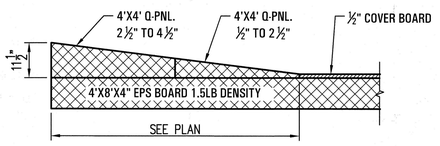
S7
7 OF 15



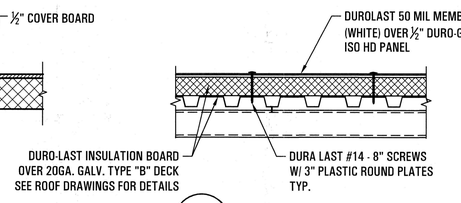
1 4' X 8' INSULATION ATTACHMENT DETAIL
SCALE: 1" = 1'-0"



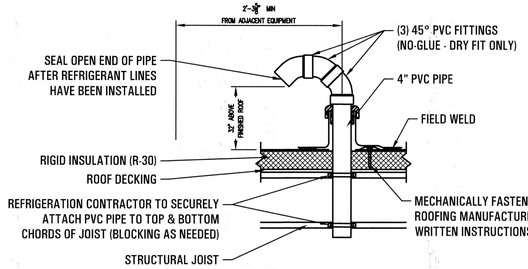
2 NON-FREEZE ROOF HYDRANT
SCALE: 1" = 1'-0"



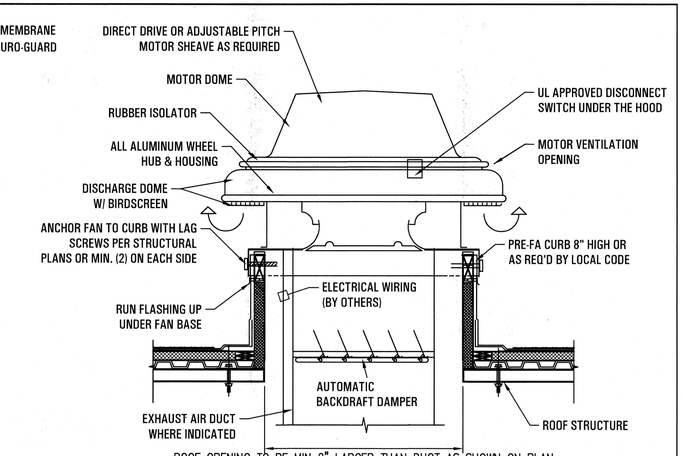
3 BUILT-UP CRICKET
SCALE: 1" = 1'-0"



5 4' X 8' INSULATION ATTACHMENT DETAIL
SCALE: 1" = 1'-0"



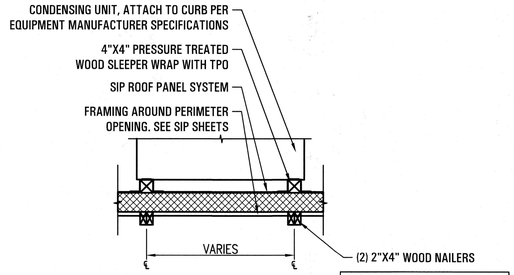
4 REFRIGERANT ROOF PENETRATION
SCALE: 1" = 1'-0"



ROOF OPENING TO BE MIN 2" LARGER THAN DUCT AS SHOWN ON PLAN

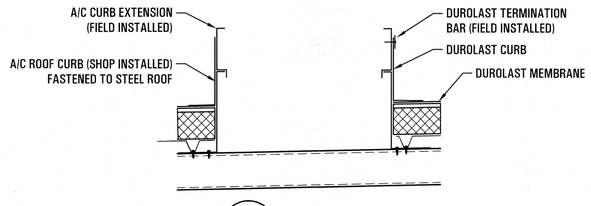
PROVIDED ⅜" S.S. THRU BOLTS WITH MIN, LENGTH AS DETERMINED BY FIELD CONDITIONS TO INSURE PROPER ATTACHMENT TO THE STRUCTURE. PROVIDED ANCHORING AT 18" O.C. OR AS RECOMMENDED BY THE STRUCTURAL ENG. WELD CURB TO TOP CHORD AS ALTERNATE METHOD.

6 ROOF MOUNTED EXHAUST FAN DETAIL
SCALE: 3" = 1'-0"

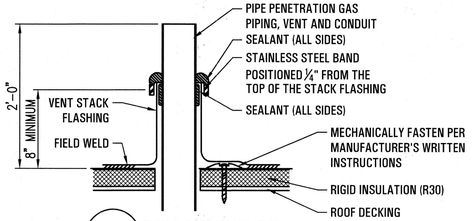


NOTE:
PROVIDED STRAPS AS REQUIRED.

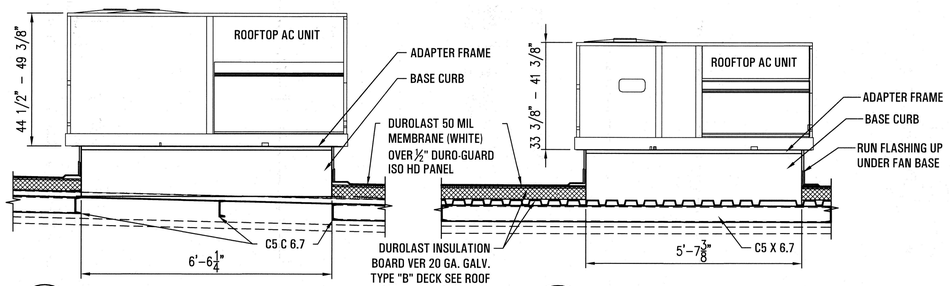
7 REFRIGERATION SUPPORT RACK
SCALE: 1" = 1'-0"



8 HVAC DETAIL
SCALE: 1" = 1'-0"



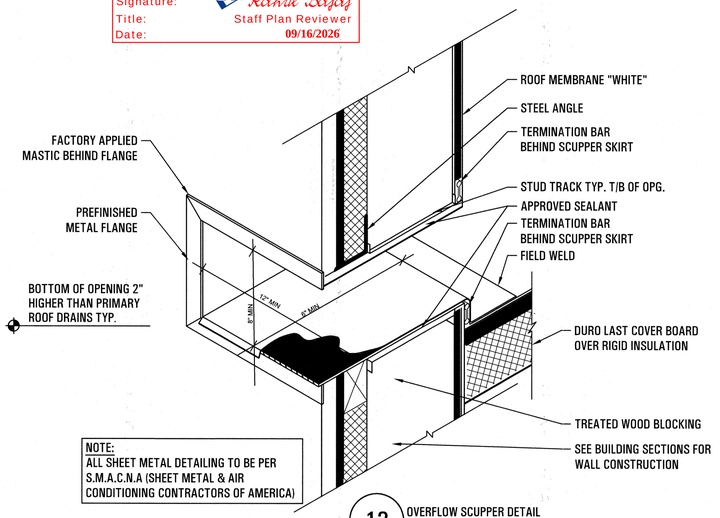
9 TYPICAL ROOF PENETRATION
SCALE: 1" = 1'-0"



10 AC UNIT DETAIL
SCALE: 1" = 1'-0"

11 AC UNIT DETAIL
SCALE: 1" = 1'-0"

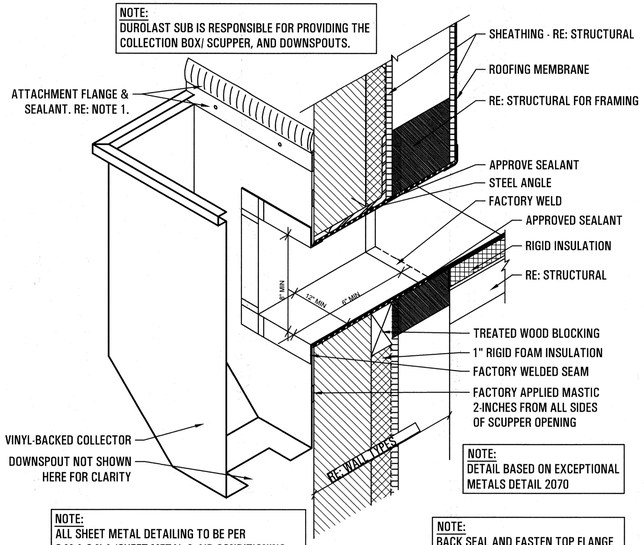
PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026



NOTE:
ALL SHEET METAL DETAILING TO BE PER S.M.A.C.N.A (SHEET METAL & AIR CONDITIONING CONTRACTORS OF AMERICA)

12 OVERFLOW SCUPPER DETAIL
SCALE: N.T.S.

NOTE:
DUROLAST SUB IS RESPONSIBLE FOR PROVIDING THE COLLECTION BOX/ SCUPPER, AND DOWNSPOUTS.



NOTE:
ALL SHEET METAL DETAILING TO BE PER S.M.A.C.N.A (SHEET METAL & AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION) MANUAL

NOTE:
DETAIL BASED ON EXCEPTIONAL METALS DETAIL 2070

NOTE:
BACK SEAL AND FASTEN TOP FLANGE OF COLLECTOR 6" O.C. APPLY A BEAD OF SEALANT ON TOP OF FLANGE

13 VINYL-BACK COLLECTOR
SCALE: N.T.S.

S8 ROOF DETAILS
SCALE: 1" = 1'-0"

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CUSTOMER:
CIRCLE K

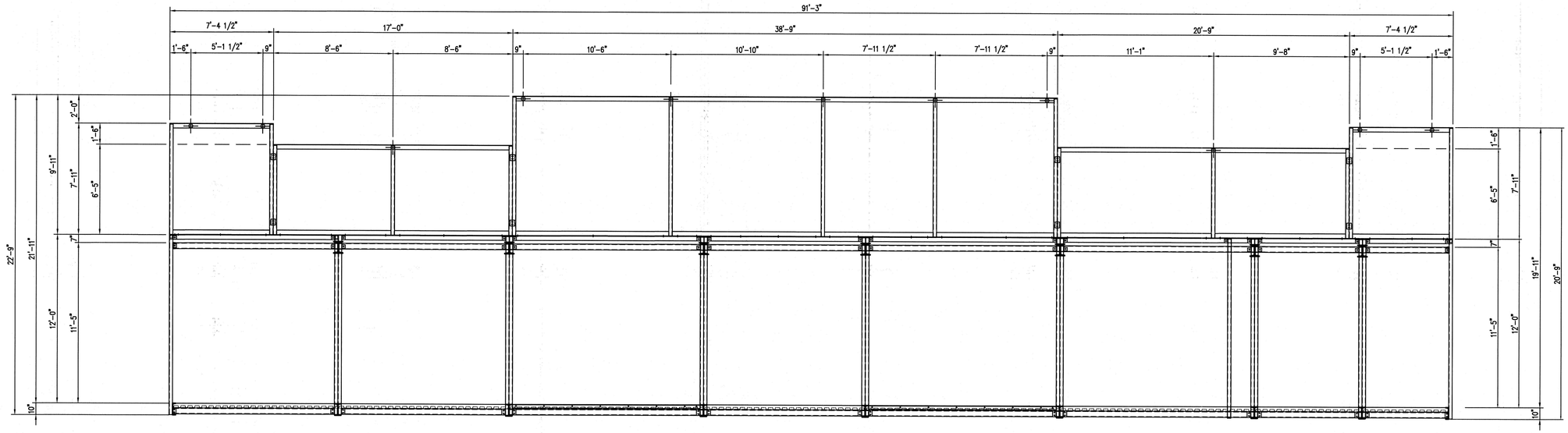
43'-10" X 92'-9" Modular Building
Roof Details

DRAWN BY: J.C.
DATE: 8/11/2026
CHECKED BY: A.R.
DATE: 02/02/2026

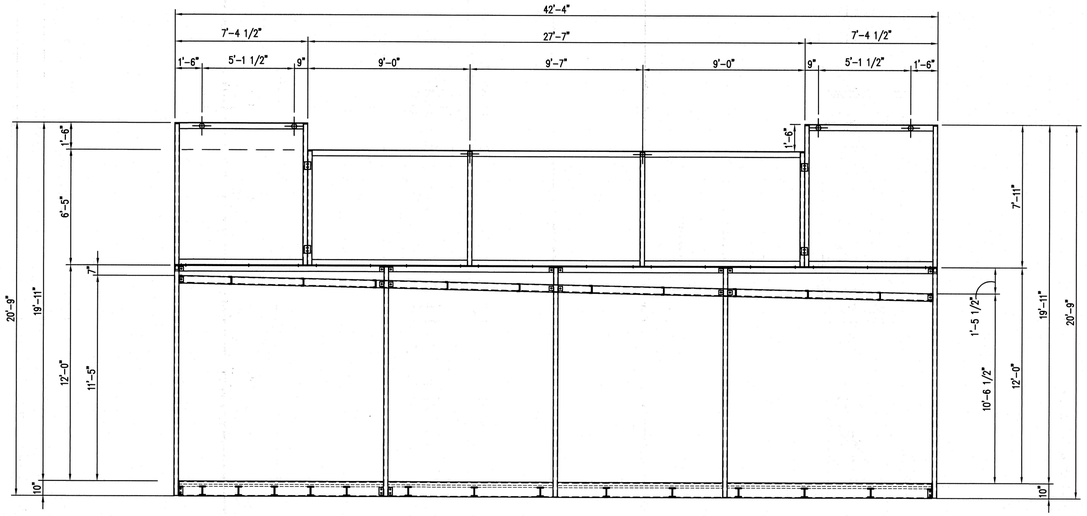
SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11068 ENGINEER CHARLES HOWARD MOSS

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	1" = 1'-0"
DRAWING #	-

S8
8 OF 15



1 / S3 STRUCTURAL ELEVATION
SCALE: 1/4" = 1'-0"



2 / S3 STRUCTURAL ELEVATION
SCALE: 1/4" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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fms@freymoss.com

ENGINEER OF RECORD:
Charles H. Moss, PE
P.O. Box 28
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Email: chmai@aol.com

CUSTOMER:

CIRCLE K

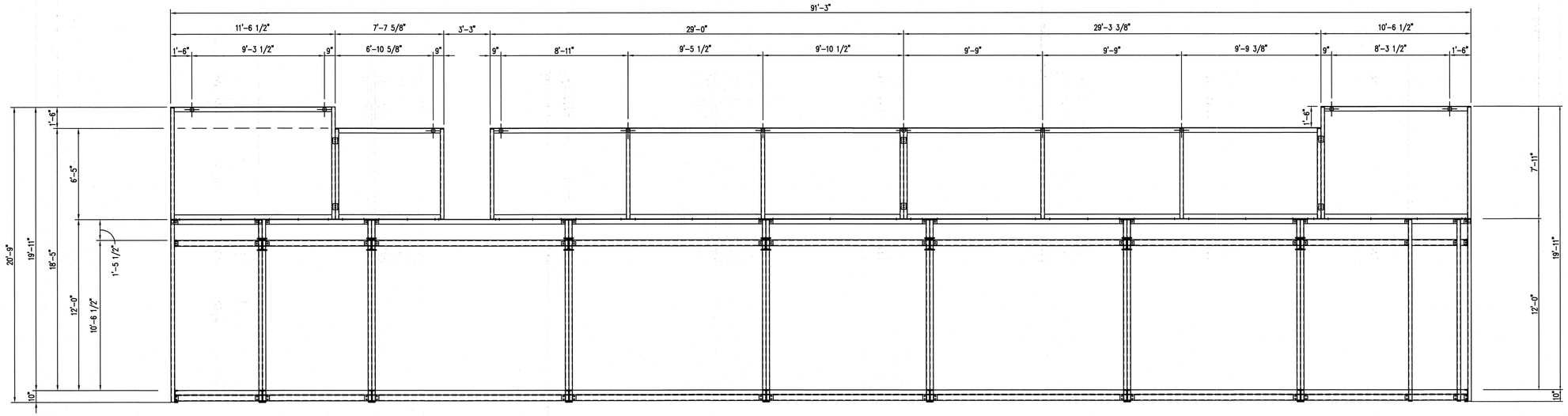
43'-10" X 92'-9" Modular Building Structural Elevations

DRAWN BY: G.G.
DATE: 02/02/2026
CHECKED BY: A.R.
DATE: 02/02/2026

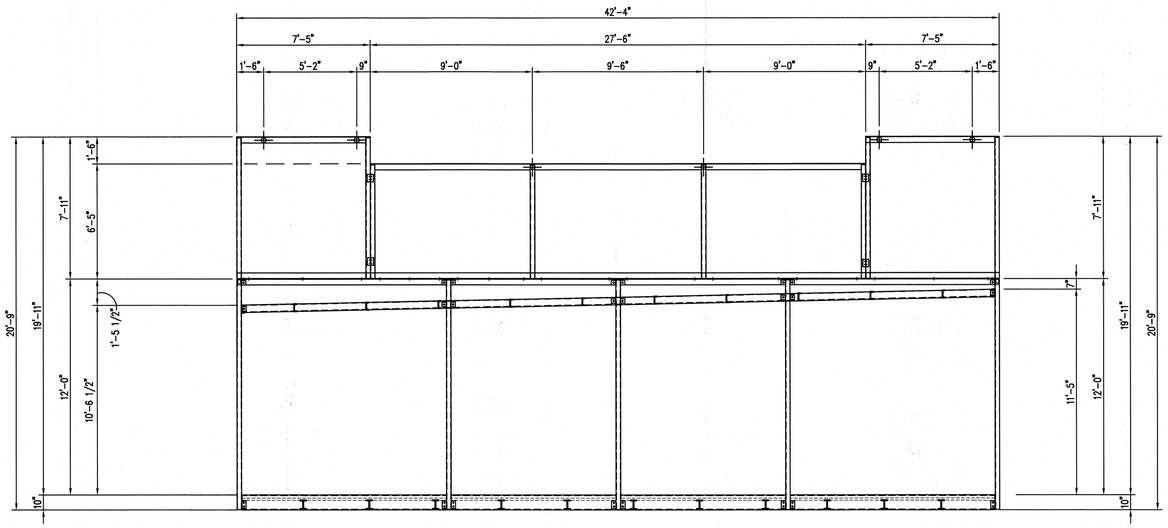
SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11686 ENGINEER CHARLES H. MOSS 8-11-26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	1/4" = 1'-0"
DRAWING # -	

S9
9 OF 15



3 / S3 STRUCTURAL ELEVATION
SCALE: 1/4" = 1'-0"



4 / S3 STRUCTURAL ELEVATION
SCALE: 1/4" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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DATE	BY	CHK	REVISIONS

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Greensboro, GA 30642
Voice: (800) 366-6385
Fax: (770) 483-6037
fms@freymoss.com

ENGINEER OF RECORD:
Charles H. Moss, PE
P.O. Box 28
Covington, GA 30015
Email: chmai@aol.com

CUSTOMER:

CIRCLE K

43'-10" X 92'-9" Modular Building Structural Elevations

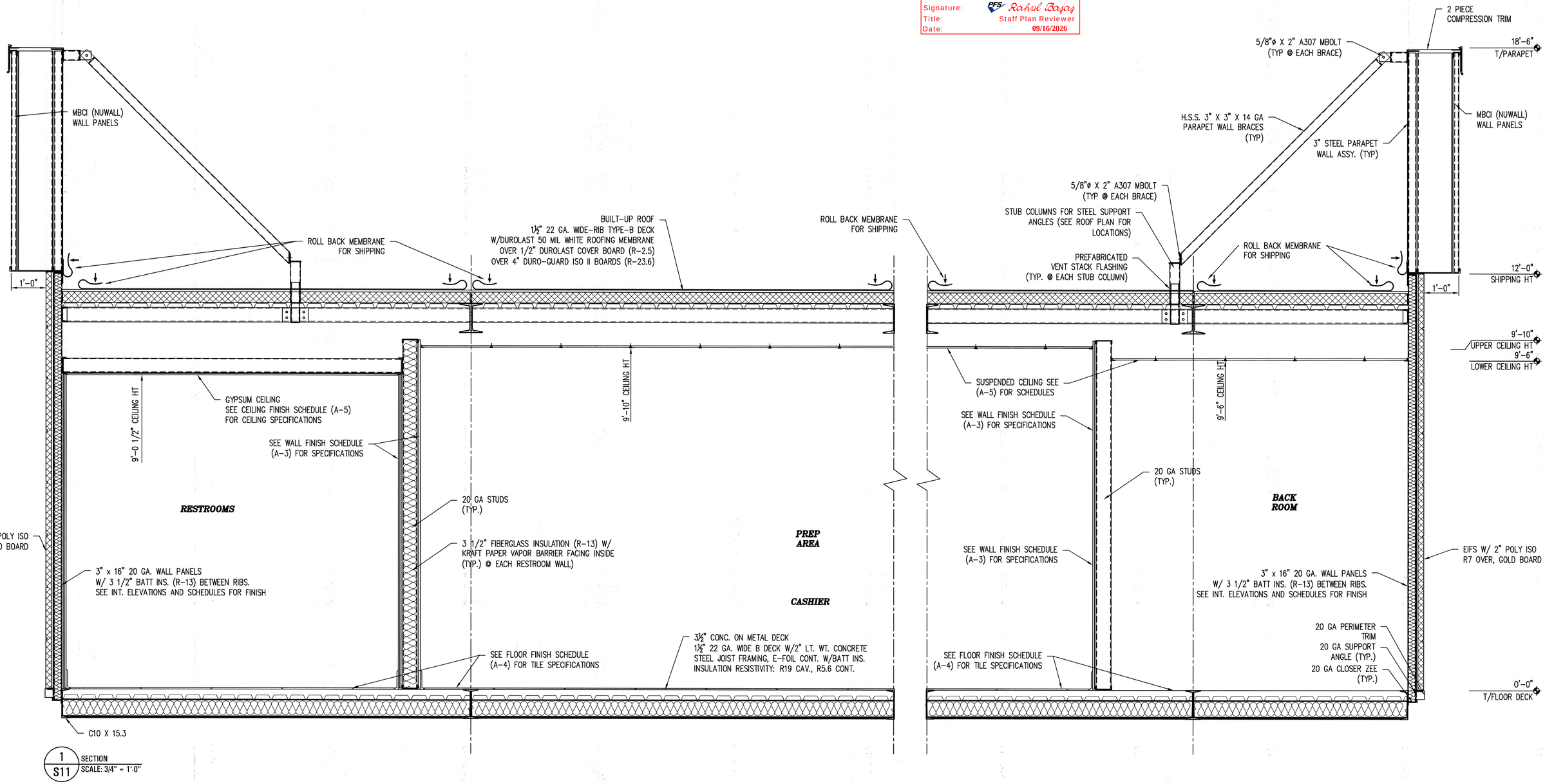
DRAWN BY: G.G.
DATE: 02/02/2026
CHECKED BY: A.R.
DATE: 02/02/2026

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11054 ENGINEER CHARLES H. MOSS

JOB #	G25B6
	NC 55 & E Jackson Blvd
	Erwin, NC 28339
	United States of America
SCALE :	1/4" = 1'-0"
DRAWING # :	

S10
10 OF 15

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026



1/S11 SECTION
SCALE: 3/4" = 1'-0"

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DATE	BY	CHK	REVISIONS
06/05/26	J.C.		CO 05/28/26 UPDATED WALL INSUL REMOVE TYVECK

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Fax: (770) 483-6037
fms@freymoss.com

ENGINEER OF RECORD:
Charles H. Moss, PE
P.O. Box 28
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Email: chmai@aol.com

CUSTOMER:

CIRCLE K

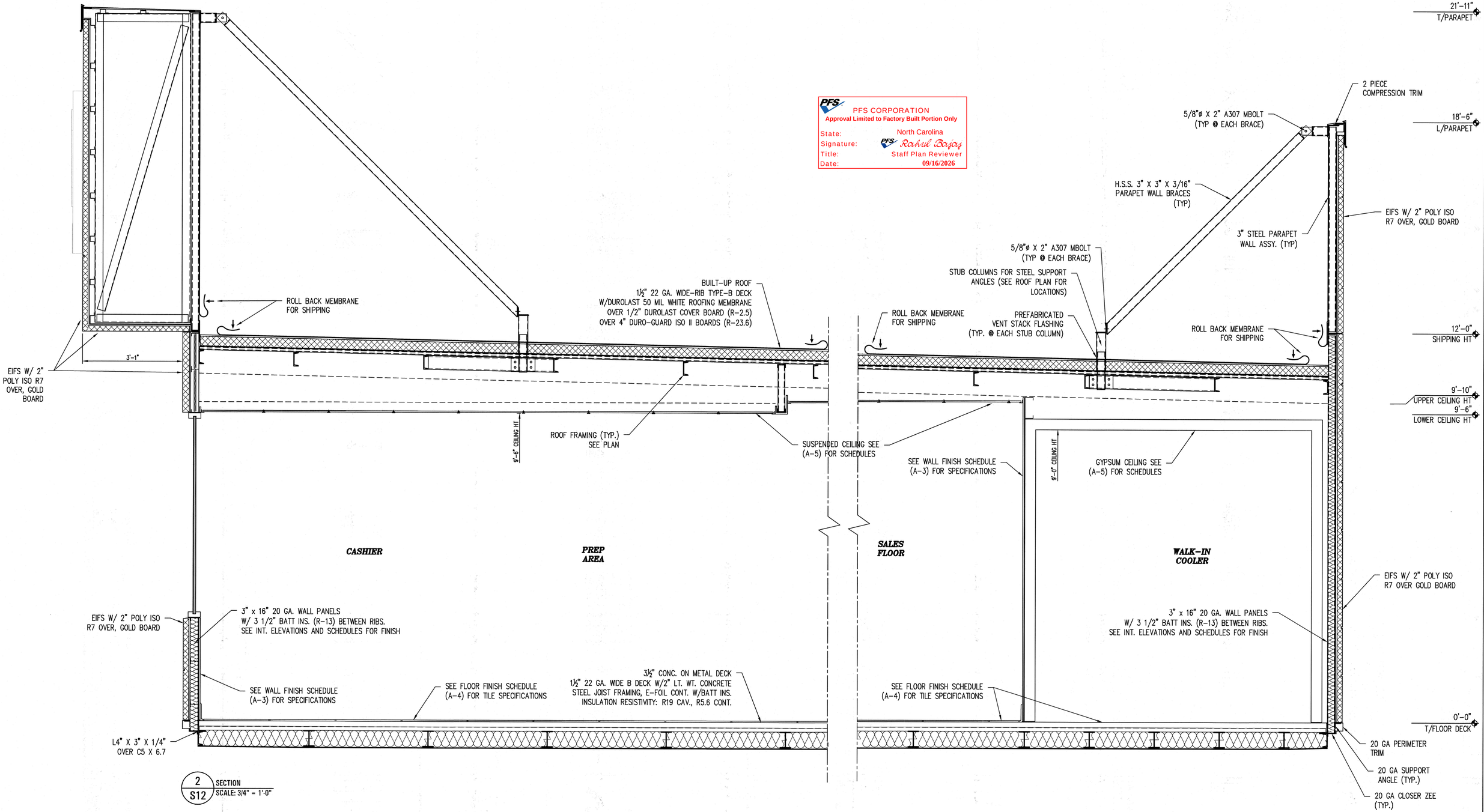
43'-10" X 92'-9" Modular Building SECTION

DRAWN BY: J.C.
DATE: 06/05/26
CHECKED BY: A.R.
DATE: 02/02/2026

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11066 ENGINEER CHARLES H. MOSS 9/17/26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	3/4" = 1'-0"
DRAWING # -	

S11
11 OF 15



2 / S12 SECTION
SCALE: 3/4" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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DATE	BY	CHK	REVISIONS
06/05/26	J.C.		CO 05/28/26 UPDATED INSUL & TYVECK

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Voice: (800) 366-6385
Fax: (770) 483-6037
fms@freymoss.com

ENGINEER OF RECORD:
Charles H. Moss, PE
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Covington, GA 30015
Email: chmai@aol.com

CUSTOMER:
CIRCLE K
43'-10" X 92'-9" Modular Building
SECTION

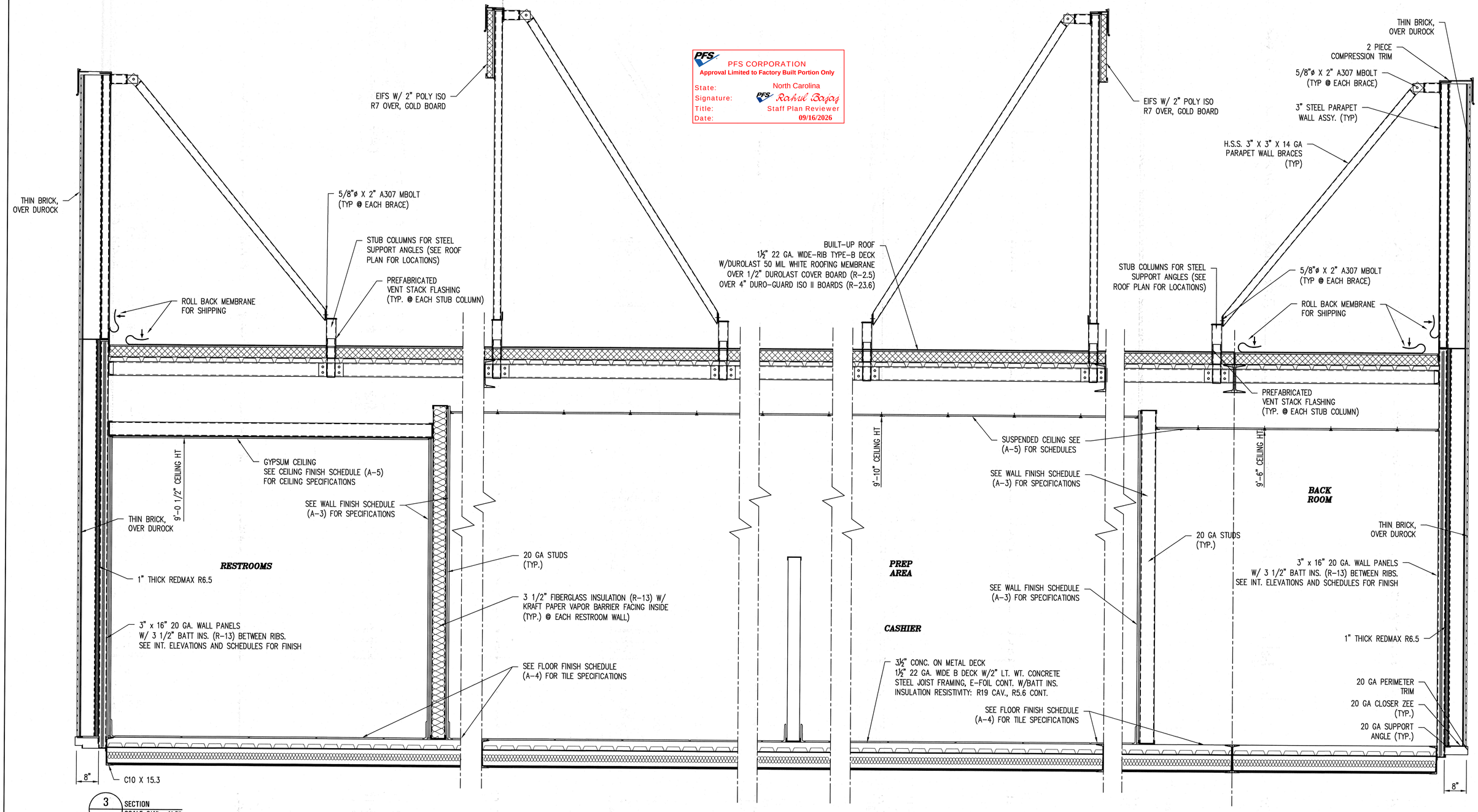
DRAWN BY: J.C.
DATE: 06/05/26
CHECKED BY: A.R.
DATE: 02/02/2026

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 11055 ENGINEER CHARLES H. MOSS 9-11-26

JOB #	G25B6
NC 55 & E Jackson Blvd	
Erwin, NC 28339	
United States of America	
SCALE :	3/4" = 1'-0"
DRAWING #	-

S12
12 OF 15

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026



3/S13 SECTION
SCALE: 3/4" = 1'-0"

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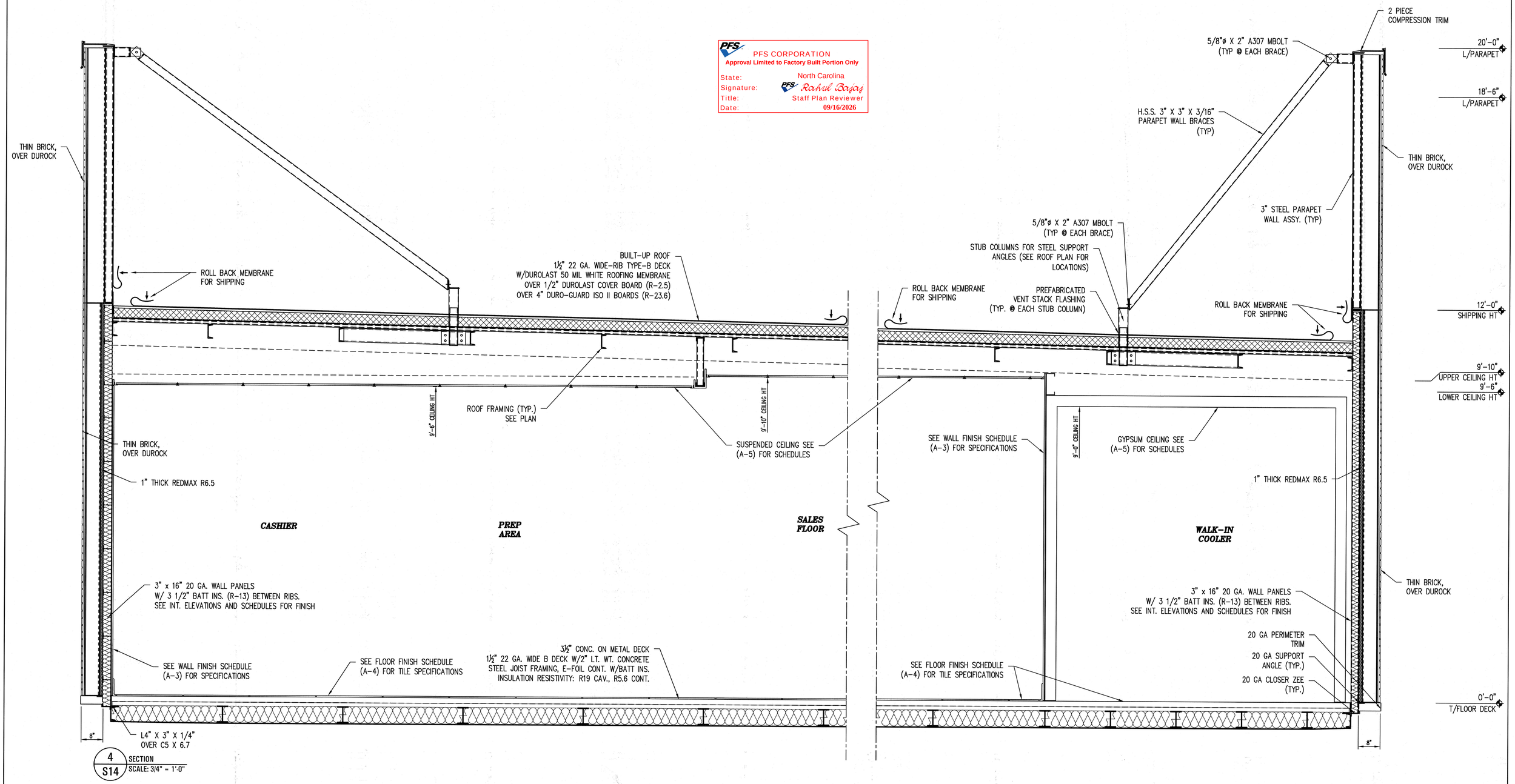
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DATE: 07/28/26
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DATE:

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S13
13 OF 15

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Title: Staff Plan Reviewer
Date: 09/16/2026



4 / S14 SECTION
SCALE: 3/4" = 1'-0"

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43'-10" X 92'-9" Modular Building
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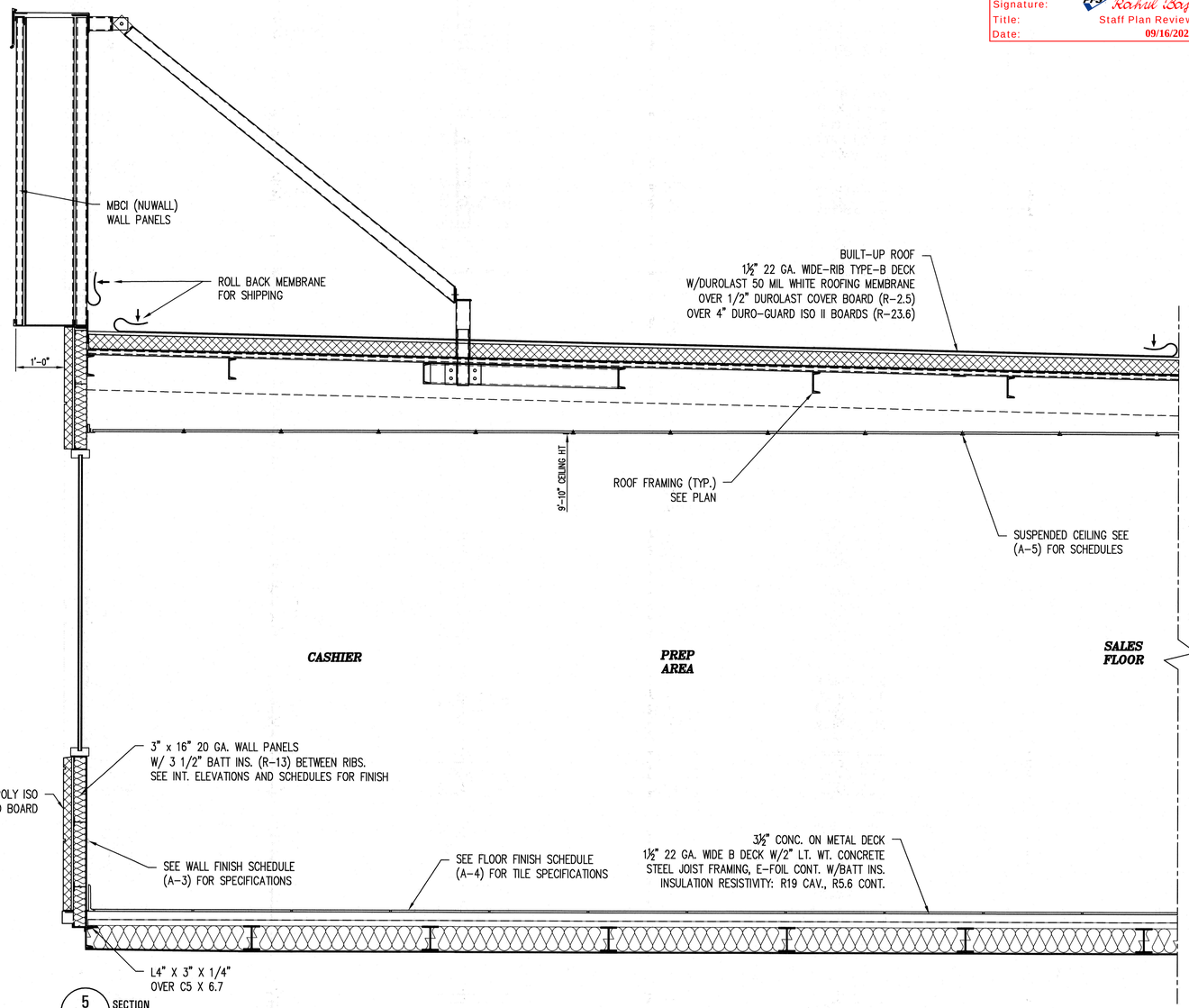
DRAWN BY: J.C.
DATE: 07/28/26
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DATE:

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17065 CHARLESH MOSS

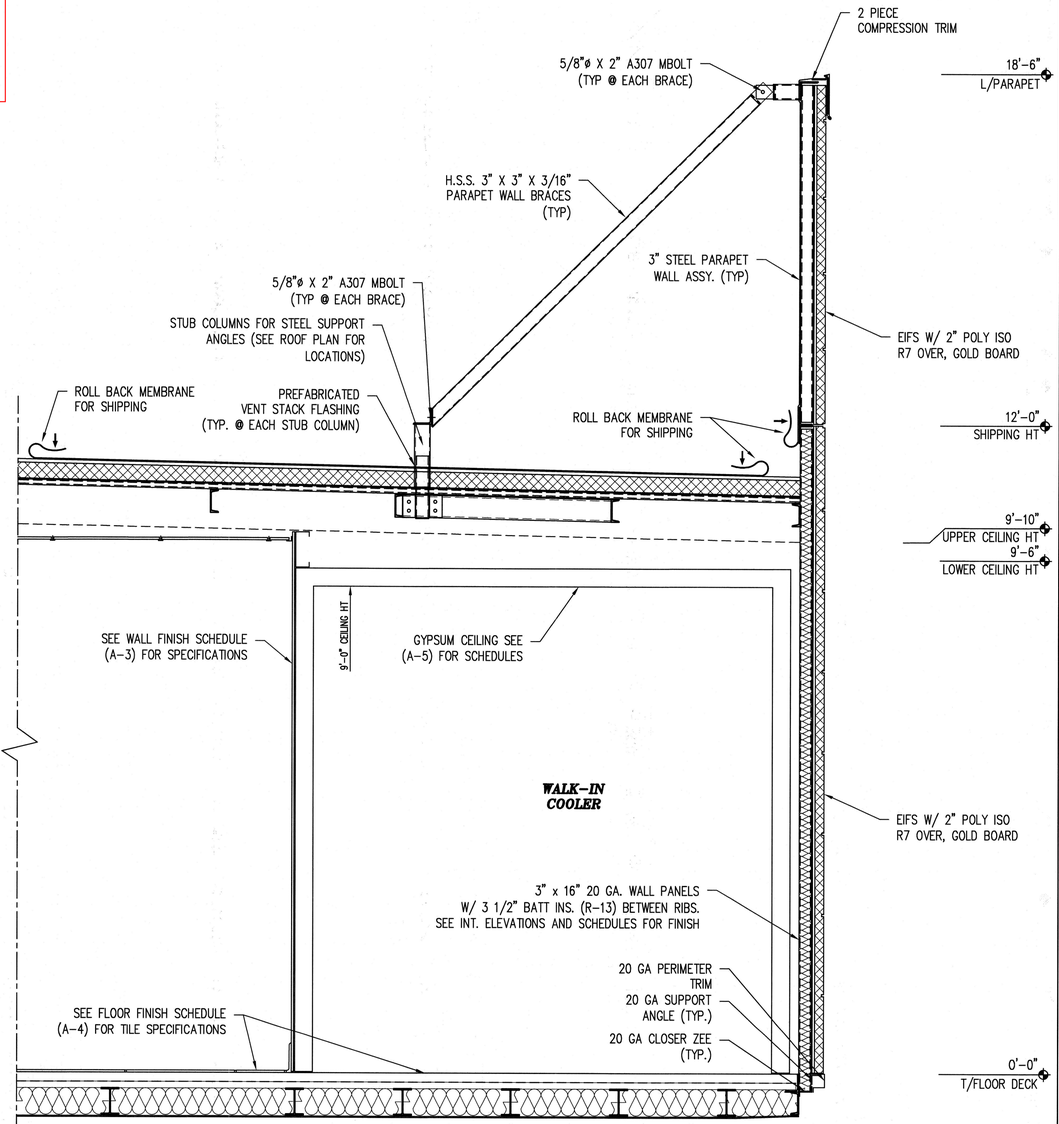
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Erwin, NC 28339	
United States of America	
SCALE :	3/4" = 1'-0"
DRAWING #	-

S14
14 OF 15

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State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026



5 / S15 SECTION
SCALE: 3/4" = 1'-0"



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SECTION

DRAWN BY: J.C.
DATE: 07/28/26
CHECKED BY:
DATE:

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United States of America	
SCALE :	3/4" = 1'-0"
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S15
15 OF 15

LIGHTING FIXTURE SCHEDULE

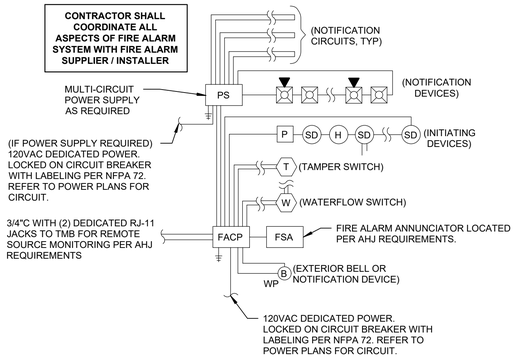
ALL LIGHTING FIXTURES ARE SUPPLIED BY CIRCLE K, INSTALLED BY THE ELECTRICAL CONTRACTOR

TYPE	ITEM TYPE	DESCRIPTION	MANUFACTURER	MODEL	LAMP	WATTS	VOLTAGE	COMMENTS	COUNT
A	INTERIOR LIGHTING	2'x4' H.E. TROFFER	LITHONIA	2BLT4-48L-ADSM-GZ10-LP940	LED	39 W	120 V		29
AE	INTERIOR LIGHTING	2'x4' H.E. TROFFER WITH BATTERY	LITHONIA	2BLT4-48L-ADSM-GZ10-LP940-EL14L	LED	39 W	120 V	WITH EMERGENCY BALLAST	12
B	INTERIOR LIGHTING	6" RECESSED DOWNLIGHT	LITHONIA	LBR6-ALO2 (1500LM)-SWW1 (4000K)-AR-LSS-MWD-90CRI	LED	19 W	120 V		15
C	INTERIOR LIGHTING	2'x2' H.E. TROFFER	LITHONIA	2BLT2-40L-ADSM-GZ10-LP940	LED	31 W	120 V		7
CE	INTERIOR LIGHTING	2'x2' H.E. TROFFER WITH BATTERY	LITHONIA	2BLT2-40L-ADSM-GZ10-LP940-EL14L	LED	31 W	120 V	WITH EMERGENCY BALLAST	2
D	INTERIOR LIGHTING	4' GASKETED WRAP AROUND	LITHONIA	FEM-L48-6000LM-IMAFL-WD-MVOLT-40K-80CRI	LED	38 W	120 V		5
DE	INTERIOR LIGHTING	4' GASKETED WRAP AROUND WITH BATTERY	LITHONIA	FEM-L48-6000LM-IMAFL-WD-MVOLT-40K-80CRI-BE6WCP	LED	38 W	120 V	WITH EMERGENCY BALLAST	2
J	INTERIOR LIGHTING	8' LED LINEAR FIXTURE	LITHONIA	CLX-L96-14000LM -SEF-RDL-MVOLT-GZ10-50K-80CRI	LED	93 W	120 V		2
K	INTERIOR LIGHTING	4' LED LINEAR FIXTURE	LITHONIA	CLX-L48-5000LM-SEF-RDL-MVOLT-GZ10-50K-80CRI	LED	32 W	120 V		1
M	INTERIOR LIGHTING	4' GASKETED WRAP AROUND	LITHONIA	FEM-L48-12000LM-IMAFL-WD-MVOLT-50K-80CRI	LED	75 W	120 V		4
ME	INTERIOR LIGHTING	4' GASKETED WRAP AROUND WITH BATTERY	LITHONIA	FEM-L48-12000LM-IMAFL-WD-MVOLT-50K-80CRI-BE6WCP	LED	75 W	120 V	WITH EMERGENCY BALLAST	1
N	INTERIOR LIGHTING	4' LED LINEAR FIXTURE (SUSPENDED)	LITHONIA	CLX-L48-5000LM-SEF-RDL-MVOLT-GZ10-50K-80CRI-E10WLCP	LED	32 W	120 V	WITH EMERGENCY BALLAST	1
A3	EXTERIOR SITE LIGHTING	SINGLE MEDIUM EXTERIOR POLE FIXTURE	LITHONIA	RSX2-LED-P2-50K-R3-MVOLT-SPA-FAO	LED	114 W	120 V		3
A4	EXTERIOR SITE LIGHTING	SINGLE MEDIUM EXTERIOR POLE FIXTURE	LITHONIA	RSX2-LED-P2-50K-R4-MVOLT-SPA-FAO	LED	114 W	120 V		3
L1	EXTERIOR SITE LIGHTING	6" RECESSED DOWNLIGHT EXTERIOR	LITHONIA	LBR6-ALO2-20LM-SWW1 (4000K)-AR-LSS-MWD-90CRI-WL	LED	25 W	120 V		9
WP1	EXTERIOR SITE LIGHTING	EXT. WALL PACK ("EM" - INVERTER BACK-UP)	LITHONIA	ARC2-LED-P5-50K-MVOLT	LED	51 W	120 V		8
EM	EMERGENCY LIGHTING	LED EMERGENCY DUAL HEAD	LIGHTALARMS	RLA-LCA-2LED	LED	12 W	120 V		2
EX	EMERGENCY LIGHTING	LED EXIT SIGN / EMERGENCY LIGHT COMBO	LIGHTALARMS	RLA-UQLXN500X-2LED	LED	12 W	120 V		3
W	EMERGENCY LIGHTING	WET-LISTED EMERGENCY REMOTE DUAL HEAD	THOMAS & BETTS DORVAL, QUEBEC	CAM-SD-XX	LED	10 W	120 V	(2) 1W HEADS GRAY FINISH	1
CAN	CANOPY LIGHTING	CANOPY LIGHT	LITHONIA	PCNY-LED-ALO2-SWW2 (50K) FPCL-MVOLT (SW. POS.6)	LED	100 W	208 V	FUEL CANOPY LIGHT	24

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: **09/16/2026**

FIRE ALARM DEFERRED APPROVAL NOTES

1. THE LOCATION OF ALL AUTOMATIC DETECTORS, MANUAL PULL STATIONS AND OTHER FIRE ALARM DEVICES AND EQUIPMENT WILL BE SUBMITTED AS DEFERRED DESIGN-BUILD SUBMITTAL.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE INSTALLED UNTIL DETAILED SHOP DRAWINGS AND SPECIFICATIONS (INCLUDING BUT NOT LIMITED TO FLOOR PLANS INDICATING ALL CONDUIT AND CONDUCTOR SIZES, RISER DIAGRAMS, WIRING DIAGRAMS, BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, CATALOG CUT SHEETS) FOR EACH COMPONENT OF THE FIRE ALARM SYSTEM HAS BEEN APPROVED BY THE LOCAL FIRE MARSHAL. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE AUTHORITY HAVING JURISDICTION.
3. IT SHALL BE THE CONTRACTORS / SYSTEM VENDORS RESPONSIBILITY TO PROVIDE THE VISUAL STROBE APPLIANCES WITH THE CORRECT CANDELA RATING NECESSARY TO PROVIDE THE PROPER COVERAGE REQUIRED, IN COMPLIANCE WITH NFPA 72 FOR THE SPACE / AREA SERVED.
4. THE FIRE ALARM SYSTEM SHALL CONFORM TO ALL THE LATEST VERSIONS OF LOCAL CODES, UNIFORM BUILDING CODE, UNIFORM FIRE CODE, NFPA 72 AND NFPA 101.
5. FIRE ALARM CONTRACTOR SHALL SUBMIT COMPLETED NFPA 72 FIRE ALARM CERTIFICATE OF COMPLETION TO THE LOCAL AUTHORITY HAVING JURISDICTION UPON COMPLETION OF THE PROJECT.
6. INSULATED CONDUCTORS USED IN WET LOCATIONS SHALL BE THWN OR XHHW. CABLES OF ONE OR MORE CONDUCTORS USED IN WET LOCATIONS SHALL BE OF A TYPE LISTED FOR USE IN WET LOCATIONS.
7. ALARM INDICATING DEVICES SHALL BE LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 10db ABOVE AMBIENT NOISE LEVELS MEASURED 4' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT MOUNTING LOCATIONS OF ALL FIRE DETECTION DEVICES. THE CONTRACTOR SHOULD NOT LOCATE DETECTORS IN A DIRECT AIR FLOW NOR CLOSER THAN THREE (3) FEET FROM ANY AIR SUPPLY DIFFUSER.
9. ALL DUCT DETECTORS MOUNTED WITHIN THE CEILING SPACES SHALL BE PROVIDED WITH A REMOTE INDICATING LIGHT MOUNTED ON THE CEILING DIRECTLY BELOW THE DETECTOR.
10. VENDOR / CONTRACTOR OF FIRE ALARM SYSTEM SHALL PROVIDE A MINIMUM OF 1 YEAR GUARANTEE CERTIFICATED FOR LABOR AND MATERIALS, INSTRUCTIONS AND MAINTENANCE MANUAL WITH A 24-HOUR FACTORY REPRESENTATIVE SUPPORT PHONE NUMBER. PROVIDE EIGHT (8) HOURS OF INSTRUCTION TIME TO SHOW THE OWNER'S REPRESENTATIVE THE FUNCTIONS AND OPERATION OF THE SYSTEM.
11. DUCT DETECTORS SHALL BE PROVIDED AND TERMINATED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ELECTRICAL MATERIAL REQUIRED TO PROVIDE CONNECTION FROM DUCT DETECTOR TO THE UNIT FOR FAN SHUT-DOWN. SYSTEM SHALL BE PROGRAMMED WHERE UPON ACTIVATION OF ANY ONE DUCT DETECTOR ALL UNITS SHALL SHUT DOWN.
12. COORDINATE LOCATION OF WATER FLOW AND TAMPER SWITCHES WITH FIRE PROTECTION CONTRACTOR.
13. CONFIRM WITH AUTHORITY HAVING JURISDICTION FIRE ALARM REQUIREMENTS PRIOR TO INSTALLATION.



FIRE ALARM RISER SCHEMATIC | 1
N.T.S.

ELECTRICAL SYMBOLS LEGEND

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

SYMBOL	DESCRIPTION
	LIGHT FIXTURE (WALL MOUNTED/CEILING MOUNTED)
	LIGHT FIXTURE
	LIGHT FIXTURE, NIGHT LIGHT
	EXIT SIGN, WITHOUT OR WITH INTEGRATED EMERGENCY LIGHTING (WALL MOUNTED/CEILING MOUNTED)
	EMERGENCY LIGHT (WALL MOUNTED/CEILING MOUNTED)
INV	EMERGENCY POWER INVERTER
PE	CEILING MOUNTED LINE VOLTAGE PHOTOCELL SENSOR, LEVITON "PCCSD-W" OR EQUAL.
	CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR, LEVITON ODC05-MDW OR EQUAL.
$	STANDARD 20A, SINGLE PHASE SPST TOGGLE SWITCH
$3	3-WAY SWITCH
$K	KEYED SWITCH
$D	DIMMER SWITCH, SINGLE PHASE SLIDING TYPE SWITCH. LUTRON "NOVA-T" SERIES OR APPROVED EQUAL. PROVIDE SEPARATE NEUTRAL FOR EACH DIMMER CIRCUIT.
$M	MANUAL MOTOR SWITCH
$OS	SINGLE POLE OCCUPANCY SENSOR SWITCH
$OS2	DOUBLE POLE OCCUPANCY SENSOR SWITCH
	STANDARD 20A, 120V 1PH GROUNDING TYPE SIMPLEX RECEPTACLE
	STANDARD 20A, 120V 1PH GROUNDING TYPE DUPLEX RECEPTACLE
	STANDARD 20A, 120V 1PH GROUNDING TYPE QUADRUPLEX RECEPTACLE
	STANDARD 20A, 120V 1PH GROUNDING "GROUND FAULT INTERRUPTER" GFI RECEPTACLE
	STANDARD 20A, 120V 1PH ISOLATED GROUND TYPE DUPLEX RECEPTACLE, ORANGE IN COLOR
	STANDARD 20A, 120V 1PH GROUNDING TYPE DUPLEX RECEPTACLE MOUNTED IN FLUSH FLOOR OUTLET BOX
	STANDARD 20A, 120V 1PH GROUNDING TYPE QUADRUPLEX RECEPTACLE MOUNTED IN FLUSH FLOOR OUTLET BOX
	SPECIAL RECEPTACLE - VERIFY NEMA CONFIGURATION WITH INSTALLED EQUIPMENT MANUFACTURER REQUIREMENTS.
J	JUNCTION BOX. SIZED BY THE CONTRACTOR PER ACTUAL NUMBER OF CONDUITS AND / OR CONDUICTORS PASSING THROUGH. (WALL MOUNTED/CEILING MOUNTED)
	CEILING MOUNTED RECEPTACLE, STANDARD 20A, 120V 1PH GROUNDING TYPE DUPLEX RECEPTACLE
	DISCONNECT SWITCH, AMPS, POLES AND FUSE SIZE AS SHOWN (FUSE SIZE CALLED OUT IF REQUIRED)
	FLUSH MOUNTED PANELBOARD, REFERENCE PANEL SCHEDULE FOR RATINGS AND COMPONENTS
	SURFACE MOUNTED PANELBOARD, REFERENCE PANEL SCHEDULE FOR RATINGS AND COMPONENTS
SD / SD	SMOKE DETECTOR / DUCT SMOKE DETECTOR
110cd	HORN / STROBE, CANDELA AS INDICATED, COORDINATE WITH FIRE ALARM PLANS
	TELEPHONE OUTLET WITH (2) RJ45 PORTS U.O.N., PROVIDE 3/4"C TO ACCESSIBLE CEILING SPACE OR AS OTHERWISE INDICATED
	DATA OUTLET WITH (2) RJ45 PORTS U.O.N., PROVIDE 3/4"C TO ACCESSIBLE CEILING SPACE OR AS OTHERWISE INDICATED
	COMBINATION TELEPHONE / DATA OUTLET WITH (4) RJ45 PORTS U.O.N., PROVIDE (2) 3/4"C TO ACCESSIBLE CEILING SPACE OR AS OTHERWISE INDICATED
	SECURITY CAMERA BY OTHERS.

ABBREVIATIONS

a, b, c	LOWER CASE LETTERS INDICATE SWITCHING CONFIGURATION	LCU	LIGHTING CONTROL UNIT
AFF	ABOVE FINISHED FLOOR	NL	NIGHT LIGHT
AFG	ABOVE FINISHED GRADE	NTS	NOT TO SCALE
C	CONDUIT	REC	REFRIGERATION ELECTRICAL CONTRACTOR
CCT	CIRCUIT		
CF	CEILING FAN		
CW	CASH WRAP	RC	REFRIGERATION CONTRACTOR
EC	ELECTRICAL CONTRACTOR		
EF	EXHAUST FAN	RH	RADIANT HEATER
ETR	EXISTING TO REMAIN	SC	SECURITY CAMERA
EM	EMERGENCY LIGHTING FIXTURE	TR	TAMPER RESISTANT
EWC	ELECTRIC WATER COOLER	TYP	TYPICAL
G	GROUND	UH	UNIT HEATER
GFEP	GROUND FAULT EQUIPMENT PROTECTION	UNO	UNLESS NOTED OTHERWISE
GFI	GROUND FAULT CIRCUIT INTERRUPTER	WH	WATER HEATER
		WP	WEATHER PROOF
IG	ISOLATED GROUND	WR	WEATHER RESISTANT

CODE COMPLIANCE INFORMATION

2020 NATIONAL ELECTRICAL CODE
~~2018 INTERNATIONAL PLUMBING CODE~~
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL FIRE CODE
2015 INTERNATIONAL ENERGY CONSERVATION CODE

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PROJECT TEAM

ARCHITECTURAL/STRUCTURAL
FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/03/26	PERMIT SET
⚠1 09/15/26	DEVIATION COMMENTS

PROFESSIONAL SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER 053741 RYAN E. WATERS
09/15/2026
COA:P-1359

PROFESSIONAL IN CHARGE
R. WATERS – PE

PROJECT MANAGER
AR

QUALITY CONTROL
RW

DRAWN BY
RR

PROJECT NAME

CIRCLE K STORES INC.
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28339

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FMS JOB NUMBER
G25B6

TN PLAN NUMBER
XXXXXX

PROJECT NUMBER
20260936.0

SHEET TITLE

ELECTRICAL COVER SHEET AND LEGEND

SHEET NUMBER

E0.0

Drawing Name: \\greenbergfarrow.com\Projects\Files\Projects\2026\20260936.000\500 MEP Construction Documents\02586 Circle K Erwin NC\1. Drawings\NC ELEC\E0.0.dwg Last Modified: Sep 15, 2026 - 10:47am Plotted on: Sep 15, 2026 - 10:52am by JBorre

1. SECTION 16010 - BASIC ELECTRICAL REQUIREMENTS

A. THE WORK OF EACH OF THE ELECTRICAL SECTIONS INCLUDES FURNISHING AND INSTALLING THE MATERIAL, EQUIPMENT, AND SYSTEMS COMPLETE AS SPECIFIED AND/OR INDICATED ON THE DRAWINGS. THE ELECTRICAL INSTALLATIONS, WHEN FINISHED, SHALL BE COMPLETE AND COORDINATED, READY FOR SATISFACTORY SERVICE.

B. THE WORK UNDER THIS CONTRACT SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE MUNICIPAL, STATE AND OTHER LOCAL CODES, THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE AND THE 2010 ADA STANDARDS.

C. THE CONTRACTOR SHALL MAKE APPLICATION AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS AS REQUIRED UNDER THE ABOVE CODES.

D. THE GENERAL ARRANGEMENT OF CONDUIT, WIRING AND EQUIPMENT SHALL BE AS IDENTIFIED ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE SITE, STRUCTURAL, AND FINISH CONDITIONS AFFECTING HIS WORK AND SHALL ARRANGE SUCH WORK ACCORDINGLY, PROVIDING SUCH FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS.

E. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO THE COMPLETE INSTALLATION OF THE ELECTRICAL WORK AND RELATED SYSTEMS AS INDICATED ON THE DRAWINGS OR AS NECESSARY TO PROVIDE A COMPLETE SYSTEM.

F. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WIRING, LIGHTING AND CONSTRUCTION POWER FOR ALL TRADES AS REQUIRED TO COMPLETE THE PROJECT.

G. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AND COMPLETED IN A FIRST CLASS WORKMANLIKE MANNER. ALL MATERIALS SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KINDS. ALL EQUIPMENT AND SYSTEMS SHALL BE APPROVED BY UL OR SIMILAR NATIONALLY ACCEPTED TESTING AGENCY SUCH AS ETL TESTING LABORATORIES.

H. THE CONTRACTOR SHALL VISIT THE SITE AND OBSERVE THE CONDITIONS UNDER WHICH THE WORK SHALL BE COMPLETED. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS CONTRACT FOR ANY ERROR OR NEGLIGENCE IN THE CONTRACTOR'S PART.

I. THE CONTRACTOR SHALL SUBMIT DETAILED DIMENSIONED SHOP DRAWINGS, TOGETHER WITH WIRING DIAGRAMS, SPECIFICATIONS, OPERATING DATA, AND/OR CATALOG CUTS FOR ALL EQUIPMENT.

J. A THOROUGH TEST SHALL BE MADE PRIOR TO ENERGIZING THE SYSTEM TO DEMONSTRATE THAT THE SYSTEM IS ENTIRELY FREE FROM GROUND FAULTS, SHORT CIRCUITS, AND OPEN CIRCUITS; THAT THE RESISTANCE TO GROUND OF ALL NON-GROUNDED CIRCUITS, BEFORE AND AFTER CONNECTION OF EQUIPMENT MEETS THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND IEEE STANDARDS/RECOMMENDATIONS.

K. IDENTIFY ALL MOTOR STARTERS, SWITCHES, CONTROLS, PANELBOARDS, SWITCHBOARDS, TERMINAL BOARDS, CONTROL CENTERS AND OTHER EQUIPMENT. IDENTIFICATION PLATES SHALL BE LAMINATED PLASTIC, BLACK AND WHITE ENGRAVED LETTERS. LETTERING FOR CONTROL CENTERS, CONTROL PANELS, METERING AND INSTRUMENT PANELS SHALL BE 3/8" HIGH.

L. THE MATERIAL AND WORKMANSHIP OF ALL PARTS OF THE ELECTRICAL INSTALLATION SPECIFIED HEREIN SHALL BE GUARANTEED UNCONDITIONALLY FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL CERTIFICATE OF OCCUPANCY OR GRAND OPENING, WHICH EVER COMES FIRST.

M. UPON COMPLETION OF THE ELECTRICAL INSTALLATION, THE CONTRACTOR SHALL DELIVER TO THE OWNER ONE SET OF SCANNED DIGITAL PRINTS OF ELECTRICAL CONTRACT DRAWINGS WHICH SHALL BE LEGIBLY MARKED IN RED TO SHOW ALL ADDITIONS, CHANGES AND DEPARTURES OF THE INSTALLATION AS COMPARED WITH THE ORIGINAL DESIGN. THEY SHALL BE SUITABLE FOR USE IN PREPARATION OF RECORD DRAWINGS.

N. THE CONTRACTOR SHALL PREPARE A RECORD AND INFORMATION MANUAL. THE MANUAL SHALL BE SCANNED INTO A DIGITAL FORMAT AND FORWARDED TO CIRCLE K CONSTRUCTION. PROVIDE THE FOLLOWING DATA IN THE RECORD AND INFORMATION MANUAL:

1) CUT SHEETS OF ALL EQUIPMENT WITH TECHNICAL SPECIFICATIONS.
2) OPERATION AND MAINTENANCE PROCEDURES.
3) SERVICING INSTRUCTIONS.
4) COPIES OF PANELBOARD DIRECTORIES.
5) COPIES OF WARRANTIES.
6) LIST OF LAMPS SHOWING QUANTITY, TYPE, WATTAGE, MANUFACTURER, CATALOG NUMBER, ETC., FOR EACH FIXTURE TYPE.
7) COPIES OF TEST REPORTS.

O. EXACT LOCATIONS OF OUTLETS SHALL BE COORDINATED WITH DOOR SWINGS AND VARIOUS PROTRUSIONS. MOUNTING HEIGHTS OF THE VARIOUS ELECTRICAL DEVICES SHALL BE AS FOLLOWS:

SWITCHES	46" AFF TO CENTER OF BOX
RECEPTACLES	20" AFF TO CENTER OF BOX
TELEPHONE OUTLETS	20" AFF TO CENTER OF BOX
EXIT LIGHTS	CENTERED BETWEEN CEILING AND TOP OF DOOR (UP TO 1'-0" ABOVE DOOR), SURFACE OR CEILING MOUNTED AS SHOWN
DISCONNECTING SWITCHES	52" AFF TO CENTER OF SWITCH

P. PROVIDE A DISCONNECT SWITCH FOR EACH MOTOR AS SHOWN ON THE DRAWINGS SIZED AS REQUIRED TO MEET THE NEC AND PROVIDE ALL WIRING CONNECTIONS FROM SOURCE. PROVIDE REQUIRED VOLTAGE.

Q. SEAL ALL CONDUIT PENETRATIONS THRU RATED WALLS AND FLOORS TO MAINTAIN FIRE INTEGRITY. REFER TO ARCHITECTURAL DRAWING FOR FIRE WALL LOCATIONS.

R. ELECTRICAL CONTRACTOR SHALL VERIFY ALL VOLTAGES OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

2. SECTION 16050 - BASIC ELECTRICAL MATERIALS AND METHODS

A. INSTALL ALL WIRING CONDUIT EXCEPT AS OTHERWISE INDICATED. MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL CONDUIT EMBEDDED IN CONCRETE SHALL BE 3/4" MINIMUM. INSTALL ALL CONDUIT CONCEALED UNLESS ON UNFINISHED WALLS, ON UNFURRED CEILINGS OR MECHANICAL EQUIPMENT SPACES. PROVIDE CONDUIT AS FOLLOWS:

1) RIGID STEEL CONDUIT FOR WORK EXPOSED TO WEATHER OR EMBEDDED IN CONCRETE OR MASONRY.
2) GALVANIZED ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR EXPOSED WORK, CONCEALED WORK ABOVE SUSPENDED CEILINGS, AND WITHIN INTERIOR PARTITIONS OR NON-MASONRY WALLS.
3) FLEXIBLE METAL CONDUIT IN SHORT LENGTHS (6' MAXIMUM) FOR THE CONNECTION OF RECESSED LIGHTING FIXTURES AND MOTORS.
4) LIQUID TIGHT FLEXIBLE METAL CONDUIT WHEREVER MOISTURE MAY BE PRESENT AND MOTORS IN MECHANICAL EQUIPMENT SPACES.
5) POLYVINYLCHLORIDE (PVC) SCHEDULE 40 AND 80 CONDUIT WITH GROUND CONDUCTOR FOR UNDERGROUND OUTSIDE OF BUILDING (SITE) INSTALLATION AS PERMITTED BY NEC ARTICLE 352 .

B. INSTALL CONDUITS PARALLEL AND PERPENDICULAR TO WALLS AND INTERIOR SURFACES. CLEAN AND PLUG AND PROVIDE A PULL LINE IN EACH CONDUIT LEFT EMPTY. USE MANUFACTURED ELBOWS AND SCREW JOINTED CONDUIT FITTINGS. USE CAPPED BUSHINGS OR "PUSH PENNY" PLUGS. ALL FITTINGS SHALL BE STEEL OR MALLEABLE IRON. ALL EMT FITTINGS SHALL BE COMPRESSION TYPE.

C. ALL OUTLET, SWITCH AND JUNCTION BOXES, SHALL BE STAINLESS STEEL BY STEEL CITY, RACO, APPLETON, VALEN, OR EQUIVALENT. OUTLET BOXES IN CONCRETE CONSTRUCTION SHALL BE OCTAGONAL. NO "THRU-WALL" BOXES SHALL BE USED IN PARTITIONS. ALL BOXES SHALL BE FURNISHED WITH APPROPRIATE COVERS.

D. JUNCTION AND PULL BOXES SHALL BE FURNISHED AND INSTALLED AS INDICATED OR WHERE REQUIRED TO FACILITATE PULLING OF WIRES OR CABLES. BOXES FOR EXTERIOR WORK SHALL BE CAST ALUMINUM OR GALVANIZED CAST IRON TYPE WITH THREADED HUBS, UNLESS OTHERWISE DIRECTED. GASKETED COVER PLATES SHALL BE FURNISHED FOR OUTDOOR INSTALLATIONS.

E. BUILDING WIRE, UNLESS OTHERWISE INDICATED, SHALL BE COPPER, 600 VOLT, TYPE THWN/THHN INSULATION, #12 AWG MINIMUM, FOR INTERIOR AND EXTERIOR USE. FOR BRANCH CIRCUITS TYPE MC (METAL CLAD) CABLE MAY BE USED WHERE PERMITTED BY THE NEC AND LOCAL CODES. NO ROMEX OR AC (BX) CABLE WILL BE ALLOWED ON THE PROJECT.

F. MINIMUM WIRE SIZE SHALL BE NUMBER TWELVE (12) AWG. NO SPLICES SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES. WIRES NUMBER EIGHT (8) AWG AND LARGER SHALL BE STRANDED. WIRES AND CABLES SHALL BE MANUFACTURED BY PIRELLI, ROYAL, TRIANGLE OR EQUIVALENT.

G. THE COLOR CODING SYSTEM LISTED BELOW SHALL BE USED THROUGHOUT THE BUILDING:

SYSTEM	PHASE A	PHASE B	PHASE C	NEUTRAL	GROUND	ISOLATED GROUND
120/208V	BLACK	RED	BLUE	WHITE	GREEN	GREEN/YELLOW
277/480V	BROWN	ORANGE	YELLOW	GRAY	GREEN	GREEN/YELLOW

H. THE WIRE SIZE INDICATED IN THE HOMERUN SHALL BE USED THROUGH THE CIRCUIT.

I. PROVIDE DISCONNECT SWITCHES WHERE INDICATED AND AS REQUIRED. SWITCHES SHALL BE OF SIZE, NUMBER OF POLES AND FUSED OR NONFUSED, AS REQUIRED FOR JOB CONDITIONS AND THE NATIONAL ELECTRICAL CODE. ALL SAFETY SWITCHES SHALL BE NEMA I ENCLOSURE "HD" WITH INTERLOCKING COVER AND HANDLE, MANUFACTURED BY SQUARE "D" OR APPROVED EQUAL. PROVIDE NEMA 3R ENCLOSURES WHERE REQUIRED.

J. PROVIDE STARTERS AND CONTROL WIRING AS INDICATED ON THE DRAWINGS, OR SPECIFIED HEREIN. ALL TEMPERATURE CONTROL WIRING AND COMPONENTS SHALL BE UNDER DIVISION 15.

K. PROVIDE THERMAL MANUAL MOTOR STARTING SWITCHES FOR FRACTIONAL HORSEPOWER, SINGLE PHASE MOTORS. THE STARTERS SHALL BE SQUARE D COMPANY, CLASS 2510, ALLEN BRADLEY BULLETIN 600, OR APPROVED EQUAL FOR SINGLE SPEED MOTORS. ENCLOSURES SHALL BE NEMA I FOR INTERIOR USE AND NEMA 3R FOR EXTERIOR USE.

L. THREE PHASE MOTOR STARTERS SHALL BE 3 POLE, FULL-VOLTAGE, MAGNETIC TYPE. ENCLOSURES SHALL BE NEMA I FOR INTERIOR USE AND NEMA 3R FOR EXTERIOR USE. PROVIDE HOA SWITCH WHEN AUTOMATICALLY CONTROLLED, PILOT INDICATING LIGHT, CONTROL TRANSFORMER, AND NO/NC AUXILIARY CONTACTS. STARTERS SHALL BE SQUARE D COMPANY, CLASS 8536 AND CLASS 8538 COMBINATION TYPE OR APPROVED EQUAL.

M. WIRING DEVICES SHALL BE ARROW HART, GENERAL ELECTRIC, P & S LEVITON OR HUBBELL:

1) WALL SWITCHES: ARROW HART 1991. THREE AND FOUR-WAY SWITCHES SHALL BE OF THE SAME MANUFACTURER AND GRADE.
2) RECEPTACLES: ARROW HART 5362 FOR 20 AMPERES. GFCI SHALL BE #GFCS20 RATED 20 AMPERE, 120 VOLT. PROVIDE TAMPER RESISTANT AND MOISTURE RESISTANT TYPE WHERE REQUIRED BY NEC.
3) DIMMERS: 600/1000/1500/2000 WATTS AS REQUIRED BY JOB CONDITIONS. LUTRON 'NOVA' SERIES OR EQUAL.
4) DEVICE PLATES: ARROW HART SWITCH PLATES SI-S6 SERIES. ARROW HART RECEPTACLE PLATES S8. ARROW HART TELEPHONE BLANK PLATES S14.

N. MOUNT WEATHERPROOF DEVICES IN CAST METAL BOXES WITH GASKETED, SPRING-HINGED LID-TYPE LOCKING COVERS HAVING CORROSION-RESISTANT FINISH.

O. THE ENTIRE ELECTRICAL SYSTEM SHALL BE SOLIDLY GROUNDED INCLUDING MAIN SERVICE EQUIPMENT, DISCONNECT SWITCHES, WIRING TROUGHS AND PULL BOXES, CONDUIT SYSTEM, OUTLET BOXES, MOTORS, ELECTRIC HEATING EQUIPMENT, LIGHTING FIXTURES, TRANSFORMERS, EMERGENCY SYSTEMS, UPS SYSTEMS, AND FIRE ALARM SYSTEMS.

P. PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN ALL BRANCH CIRCUITS AND FEEDERS SIZED IN ACCORDANCE WITH THE NEC TABLE 250.112.

Q. ALL BRANCH CIRCUITS SHALL BE RUN CONCEALED IN EXISTING AND NEW WALLS. CUT AND PATCH EXISTING WALLS AND SURFACES AS REQUIRED.

R. ALL D.C. WIRING SHALL BE #10 AWG MINIMUM.

S. GROUND, PHASE AND NEUTRAL CONDUCTORS SHALL BE PIG-TAILED IN OUTLET BOXES OR MULTI-OUTLET ASSEMBLY FOR RECEPTACLES SO THAT GROUND AND ELECTRICAL SERVICE WILL NOT BE DISRUPTED TO OTHER RECEPTACLES ON THE SAME MULTI-WIRE CIRCUIT IF RECEPTACLE IS REMOVED.

3. SECTION 16400 - SERVICE AND DISTRIBUTION

A. COORDINATE ALL SERVICE ENTRANCE WORK WITH THE ELECTRIC UTILITY.

B. DISTRIBUTE POWER AT 120/208V, 3 PHASE, 4 WIRE, LED LIGHTING, AIR CONDITIONING, ELECTRIC HEATING, MOTOR CIRCUITS, AND 120/208V FOR RECEPTACLES, INCANDESCENT LIGHTS AND SMALL MOTORS.

C. PANELBOARDS SHALL BE 120/208 VOLTS, THREE PHASE EMPLOYING BREAKERS MINIMUM 10,000 SYMMETRICAL A.I.C. AT 120 VOLTS. FURNISH PANELBOARDS AS INDICATED ON DRAWINGS E6.0, E7.0 AND E7.1.

D. PANELBOARDS SHALL BE FACTORY ASSEMBLED WITH BOLT-ON TYPE CIRCUIT BREAKERS. BUSS SHALL BE ALUMINUM. PROVIDE 50% GROUND BUS BAR. PANELS CONNECTED TO K-RATED TRANSFORMERS SHALL HAVE 200% RATED NEUTRAL BUS BARS.

E. PROVIDE THREE (3) 3/4 INCH SPARE CONDUITS FROM EACH RECESSED PANEL TO THE CEILING SPACE.

F. FUSES FOR SERVICE ENTRANCE EQUIPMENT SHALL BE U.L. LISTED CLASS L, J, OR RK1 FUSES FOR FEEDER CIRCUITS AND PANELBOARDS SHALL BE U.L. CLASS RK1 FAST-ACTING TYPE. FUSES FOR MOTOR OVERCURRENT, MOTOR CONTROLLER, AND TRANSFORMER PROTECTION SHALL BE DUAL-ELEMENT, U.L. CLASS RKI TIME-DELAY TYPE.

G. PROVIDE ENERGY EFFICIENT, NEMA TP-1, SELF-COOLED, DRY TYPE TRANSFORMERS OF KVA, PHASE, "K" AND VOLTAGE RATINGS AS INDICATED. TRANSFORMERS 15 KVA AND LESS SHALL HAVE A CLASS F INSULATION, 115 DEGREES C RISE. TRANSFORMERS ABOVE 15 KVA SHALL HAVE CLASS H INSULATION, 115 DEGREE C RISE. PROVIDE FOUR 2-1/2 TAPS BELOW TWO 2-1/2 TAPS ABOVE RATED PRIMARY VOLTAGE. TRANSFORMERS OF 150 KVA AND LESS SHALL BE RATED 45 DB, LARGER TRANSFORMERS SHALL BE RATED 55 DB. NEUTRALS AND NEUTRAL CONNECTIONS OF ALL "K" RATED DRY TYPE TRANSFORMERS SHALL BE 200% OF THE PHASE CONDUCTOR SIZE. TRANSFORMER SHALL BE HEVI-DUTY ELECTRIC COMPANY, GENERAL ELECTRIC, SORGEL, ACME OR HOWARD INDUSTRIES.

4. SECTION 16500 - LIGHTING

A. PROVIDE A COMPLETE LIGHTING FIXTURE AT EACH LOCATION INDICATED ON THE DRAWINGS. FIXTURES SHALL BE SPECIFIED ON THE LIGHTING FIXTURE SCHEDULE ON THE DRAWINGS.

B. ALL PLASTIC DIFFUSERS SHALL BE 100 PERCENT VIRGIN ACRYLIC (NOMINAL .125 INCH THICK) AND ALL LEXAN DIFFUSERS SHALL BE LEXAN TYPE MR-4000, OR EQUAL.

C. 8-FOOT TANDEM UNITS MAY BE USED IN LIEU OF 4 FOOT UNITS IN CONTINUOUS ROWS.

D. THE CONTRACTOR SHALL CONSULT THE CEILING CONTRACTOR AND ARCHITECT'S DRAWINGS FOR APPROVED REFLECTED CEILING PLANS BEFORE ORDERING FIXTURES TO INSURE THAT ALL ARE COMPATIBLE WITH THE CEILING SYSTEM AND PROPERLY LOCATED. VERIFY THAT ADEQUATE CLEARANCE FOR INSTALLATION, MAINTENANCE, AND HEAT DISSIPATION IS AVAILABLE.

E. PROVIDE A MINIMUM OF TWO (2) GALVANIZED STEEL #12 GAUGE HANGER WIRES (ALTERNATE CORNERS) ON ALL RECESSED FIXTURES.

F. CONTRACTOR SHALL PROVIDE ADDITIONAL EXIT LIGHTS AND EMERGENCY BATTERY PACK WITH DUAL HEADS AS NEEDED TO MEET ADDITIONAL REQUESTED AHJ REQUIREMENTS.

G. CONNECT EXIT LIGHTS, EMERGENCY BATTERY UNITS AND NIGHT LIGHTS (NL) TO UNSWITCHED PORTION OF LIGHTING CIRCUIT SERVING RESPECTIVE AREA.

5. SECTION 16700 - COMMUNICATION SYSTEMS

A. TELEPHONE SERVICE SHALL BE INSTALLED BY THE TELEPHONE COMPANY.

B. PROVIDE WALL OUTLETS IN 4" SQUARE 2-1/8" DEEP BOX WITH RAISED SINGLE GANG COVERS EQUIPPED WITH BLANK STAINLESS STEEL DEVICE PLATES. EXTEND 3/4" EMPTY CONDUIT FROM EACH OUTLET TO THE CEILING SPACE AND TERMINATE WITH INSULATED BUSHINGS. PROVIDE NYLON PULL WIRE IN ALL CONDUITS LEFT EMPTY.

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Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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PROJECT TEAM

ARCHITECTURAL/STRUCTURAL
FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/03/26	PERMIT SET
09/15/26	DEVIATION COMMENTS

PROFESSIONAL SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053741 RYAN E. WATERS
09/15/2026
COA:P-1359

PROFESSIONAL IN CHARGE
R. WATERS - PE

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AR

QUALITY CONTROL
RW

DRAWN BY
RR

PROJECT NAME

CIRCLE K STORES INC.
ERWIN
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CIRCLE K STORES INC.

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FMS JOB NUMBER
G25B6

TN PLAN NUMBER
XXXXXX

PROJECT NUMBER
20260936.0

SHEET TITLE
ELECTRICAL SPECIFICATION

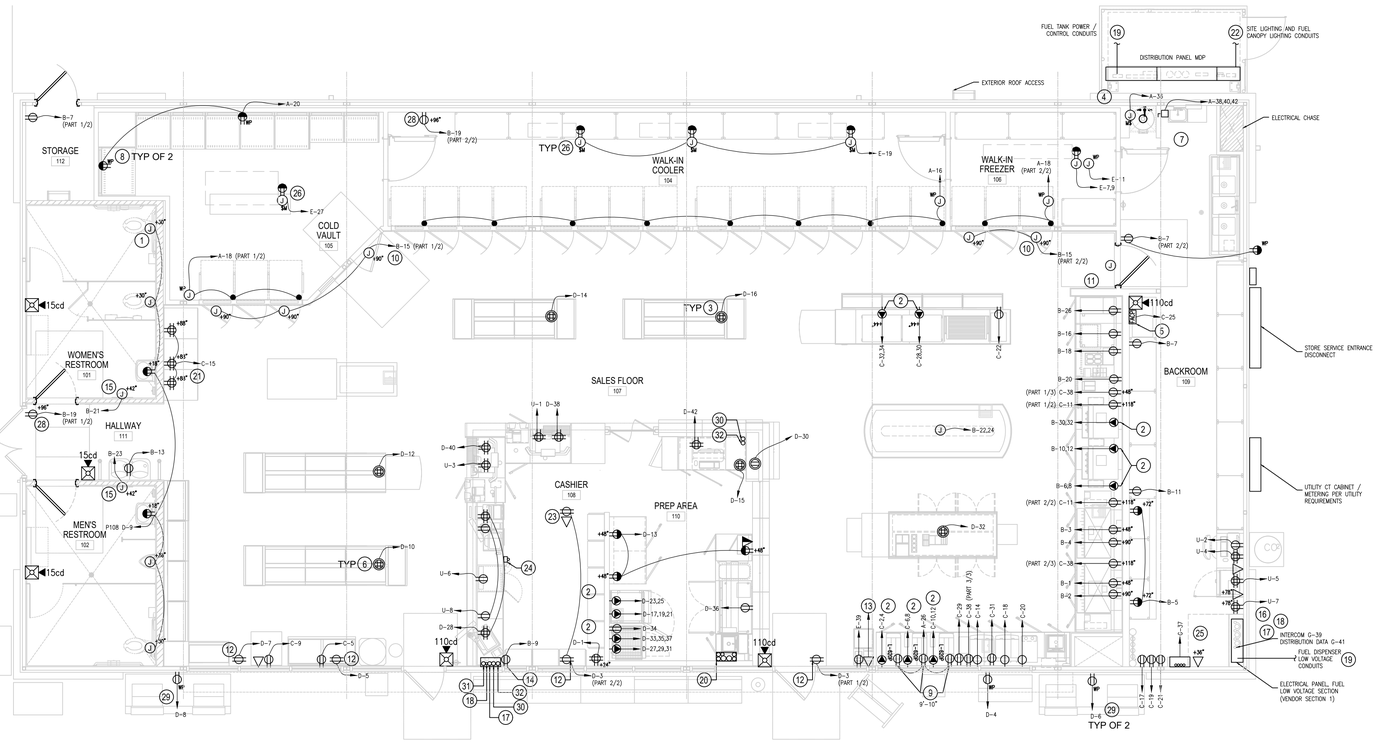
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Drawing Name: \\greenbergfarrow.corp\Projects\ProjectFiles\Projects\2026\20260936\500 MEP Construction Documents\525B6 Circle K Erwin, NC\1. Drawings\AE ELEV\E0.1.dwg Last Modified: Jul 24, 2026 - 12:06pm Plotted on: Sep 15, 2026 - 10:35am by jflores

COORDINATE ROUTING OF BRANCH CIRCUITS IN SIPS PANEL WITH VENDOR INSTALLED CHASES OR IN FURRED OUT WALLS. CIRCUITS SHALL NOT BE ROUTED EXPOSED ON SIPS PANELS OR WALLS. MINIMAL CUTTING OF SIPS PANELS FOR RECESSED BOXES OR DEVICES IS ALLOWED. COORDINATE LOCATIONS WITH PANEL MANUFACTURER

SECURITY CAMERAS AND MONITORS ARE FURNISHED AND INSTALLED BY OTHERS. CONTRACTOR TO PROVIDE ALL PENETRATIONS AND WIRING IN ACCORDANCE WITH LOCAL CODE. SECURITY CONTRACTOR IS RESPONSIBLE FOR LOW VOLTAGE PERMITTING AND INSPECTIONS. ALL PENETRATIONS IN EXTERIOR WALLS AND WALK-IN COOLERS SHALL BE SEALED PER SPECIFICATIONS. CONTRACTOR TO COORDINATE WITH SECURITY SYSTEM INSTALLER.

NOTE:
REFER TO SHEETS A1.5.1 AND A1.5.2 FOR ADDITIONAL EQUIPMENT ELECTRICAL INFORMATION AND REQUIREMENTS.



ELECTRICAL FLOOR PLAN 1
3/16" = 1'-0"

POWER GENERAL NOTES

1. ALL EXTERIOR ELECTRICAL DEVICES SHALL BE WEATHERPROOF RATED.
2. ALL 125V THROUGH 250V RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150V OR LESS TO GROUND, 50A OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE CIRCUITS RATED 150V OR LESS TO GROUND, 100A OR LESS LOCATED AT FOOD PREPARATION, FOOD SERVICE OR BEVERAGE COUNTERS SHALL BE PROTECTED BY A READILY ACCESSIBLE GFCI DEVICE PER NEC 210.8(B) (2). GFCI DEVICE MAY BE LOCATED EITHER IN A RECEPTACLE OR CIRCUIT BREAKER. FACE PLATE OF RECEPTACLE CONTROLLED BY GFCI DEVICE SHALL BE MARKED WITH GFCI PROTECTED SYMBOL.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRINGS.
4. REFER TO DRAWING A1.5 FOR EQUIPMENT SCHEDULE AND TERMINATION REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR ISLAND DETAILS.
5. ALL EQUIPMENT WITH REMOTE CONDENSERS MOUNTED ON THE ROOF SHALL HAVE 1/2" EMPTY CONDUIT (SEE POWER GENERAL NOTE 3) BETWEEN THE EQUIPMENT AND THE REMOTE CONDENSER FOR CONTROL CIRCUITS.
6. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT CONNECTIONS, MOUNTING HEIGHTS AND CORD REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. ALL EQUIPMENT SHALL BE LISTED FOR ITS INTENDED USE PER NEC ART. 400.7.
7. PROVIDE HEAT TAPE FOR ALL EXPOSED PIPING. HEAT TAPE TO BE FROM THE SAME CIRCUIT SERVING EQUIPMENT. SEE MECHANICAL SHEETS FOR DETAILS.
8. ELECTRICAL CONVEYANCES FROM BREAKERS TO OUTLET OR FIXTURE SHALL BE ENCLOSED WITHIN CEILING SPACE, FINISHED WALLS OR CABINETRY AND NOT EXPOSED. CODE 6-201.12.
9. PROVIDE POWER TO SMOKE DAMPERS WITH DISCONNECT. COORDINATE WITH MECHANICAL FOR LOCATION OF DAMPERS. CIRCUIT TO C-27.

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State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: **09/16/2026**

KEYNOTES

1 JUNCTION BOX FOR AUTOMATIC FLUSH SENSOR. COORDINATE EXACT MOUNTING HEIGHT WITH MANUFACTURER INSTRUCTIONS AND PLUMBING CONTRACTOR.
2 PROVIDE SPECIAL OUTLET FOR COMPLETE CONNECTION OF EQUIPMENT. VERIFY EXACT NEMA CONFIGURATION WITH SUPPLIED EQUIPMENT.
3 PROVIDE FLUSH RECESSED HUBBELL FLOOR BOX WITH BRASS COVER PLATE FOR POWER TO DISPLAYS AND EQUIPMENT.
4 PROVIDE JUNCTION BOX FOR HARD WIRE CONNECTION TO RE-CIRC PUMP AND AQUA-STAT TIMER. PROVIDE MOTOR RATED SWITCH PER 422.31 (C). VERIFY EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.
5 IF REQUIRED BY LOCAL CODE, PROVIDE JUNCTION BOX FOR HARD WIRE CONNECTION TO FLOW SWITCH, TAMPER SWITCH AND FIRE ALARM CONTROL PANEL. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH FIRE ALARM SUPPLIER PRIOR TO ROUGH-IN WORK.
6 PROVIDE 3/4" CONDUIT UNDER SLAB FROM CASEWORK BACK TO WALL FOR 120V POWER TO FLOOR BOXES. ROUTE IN FIELD TO NEAREST ACCESSIBLE POINT AND MINIMIZE INTERFERENCES. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.
7 WATER HEATER AT 208V 3PH. PROVIDE 100A 250V 3P+EQUIPMENT GROUND, NON-FUSIBLE DISCONNECT SWITCH INSTALLED IN READILY ACCESSIBLE LOCATION.
8 MOUNT RECEPTACLE TO ACCESSIBLE CEILING IN COOLER / COLD VAULT FOR LOW VOLTAGE SIGNAGE. SEAL SLEEVE WITH POLY SILICON CAULKING TO PREVENT MOISTURE AND AIR FROM ENTERING AND DAMAGING THE TRANSFORMER AND LOW VOLTAGE WIRING.
9 PROVIDE JUNCTION BOX WITH DUPLEX RECEPTACLE FOR PLUG IN ABOVE THE CEILING GRID.
10 PROVIDE JUNCTION BOX ABOVE CEILING FOR HARDWIRED ELECTRICAL CONNECTION.
11 CO2 ALARM STROBE JUNCTION BOX. SINGLE GANG JUNCTION BOX MOUNTED 8" BELOW CEILING CENTERED ON DOOR WITH CONDUIT TO ACCESSIBLE BACKROOM CEILING SPACE FOR LOW VOLTAGE COMMUNICATION WIRING BY OTHERS.
12 PROVIDE FLUSH MOUNT RECEPTACLE IN CEILING FOR WINDOW DISPLAYS / SIGNAGE.
13 JUNCTION BOX WITH (1) 3/4" EMPTY CONDUIT TO NETWORK SWITCH IN OFFICE AREA FOR ATM DATA.
14 JUNCTION BOX AND RECEPTACLE FOR CO2 MONITOR CONTROL PANEL. CATEGORY 5 CONTROL WIRING TO BE CONCEALED WITHIN WALL. NO EXPOSED WIRING IN SALES AREA.
15 HAND DRYER: INSTALL PER MANUFACTURER INSTRUCTIONS.
16 (1) 2" EMPTY CONDUIT WITH PULL STRING TO MANAGER'S DESK IN BACK ROOM.
17 (1) 2" EMPTY CONDUIT WITH PULL STRING FROM ELECTRICAL EQUIPMENT LOW VOLTAGE PANEL SECTION IN BACK ROOM TO CHECKOUT CABINET. REFERENCE ELECTRICAL EQUIPMENT VENDOR INFORMATION.
18 (1) 1" EMPTY CONDUIT WITH PULL STRING FOR INTERCOM FROM ELECTRICAL LOW VOLTAGE PANEL SECTION IN BACK ROOM TO CHECKOUT. REFERENCE ELECTRICAL EQUIPMENT VENDOR INFORMATION.
19 FUEL ISLAND DISPENSER / FUEL TANK POWER, CONTROL AND MONITORING CONDUIT ENTRANCES. REFERENCE SHEET E1.0, DETAILS 5/E1.1, 6/E1.1 AND FUEL SYSTEM VENDOR DRAWINGS.
20 PROVIDE AND INSTALL CONDUIT(S) UNDER SLAB FROM THE ELECTRICAL PANELS VIA ELECTRICAL CHASE IN THE BACK OF THE HOUSE TO THE FOOD PREP AREA IN FRONT OF STORE. TRANSITION FROM PVC TO GRC 90 DEGREE ELL TO STUB-UP THROUGH SLAB AND CONTINUE CIRCUIT TO EQUIPMENT RECEPTACLE USING ARMORED FLEX. PROVIDE A MEANS OF MOUNTING FOR RECEPTACLE UNDER THE EQUIPMENT. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.
21 2-LITER RACK RECEPTACLES: REFERENCE MANUFACTURER INSTRUCTION FOR EXACT LOCATION OF RECEPTACLES WITHIN DISPLAY.
22 CONDUIT ENTRY POINT FOR FUEL CANOPY LIGHTING / SIGNAGE AND SITE LIGHTING CONDUIT(S). REFERENCE SHEETS E1.0 AND E1.1.
23 CEILING MOUNTED RECEPTACLE AND DATA OUTLET FOR CAR WASH MENU SCREEN.
24 INTERIOR E-STOP / CASHIER CONTROL PANEL MOUNTED UNDER COUNTER. FIELD VERIFY LOCATION WITH CONSTRUCTION MANAGER.
25 VEEDER ROOT TLS450 MONITOR SYSTEM. PROVIDE (4) 1" CONDUITS WITH PULL STRING AT MONITOR LOCATION, ROUTED TO LOW VOLTAGE CONTROL SECTION 1 OF SWITCHGEAR DP. REFERENCE SWITCHGEAR VENDOR DRAWINGS FOR LOW VOLTAGE SECTION CONDUIT ENTRANCE LOCATION. VEEDER ROOT MONITOR CONSOLE TO BE INSTALLED +48" AFF TO CENTER BY PETROLEUM SYSTEMS ELECTRICIAN. COORDINATE EXACT LOCATION WITH PETROLEUM SYSTEMS ELECTRICIAN.
26 COOLER EVAPORATOR. PROVIDE 20A 250V 1P + EQUIPMENT GROUND, FUSIBLE HEAVY DUTY SAFETY SWITCH IN NEMA 3R ENCLOSURE. PROVIDE 2#12 1#12 GND, IN 3/4" CONDUIT. PROVIDE SEAL-OFF DEVICE PER NEC 300.7 AND PROVIDE GROUND FAULT PROTECTION FOR HEAT TRACE PER NEC 427.22. PROVIDE WP GFCI RECEPTACLE FOR MAINTENANCE.
27 NOT USED.
28 DOOR CONTROL POWER. COORDINATE EXACT LOCATION WITH CONSTRUCTION MANAGER PRIOR TO ROUGH-IN. INSTALL DOOR CONTROL POWER PER MANUFACTURER INSTRUCTIONS.
29 E.C. SHALL PROVIDE A HEAT TAPE FOR RECEPTACLES. CONNECT TO RECEPTACLE CIRCUIT WITH 2#12, 1#12 GND IN 3/4" CONDUIT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
30 PROVIDE (1) 2" EMPTY CONDUIT WITH PULL STRING FROM CHECKOUT CABINET TO NETWORK RACK IN BACK ROOM AT MANAGER'S DESK AREA.
31 (1) 2" EMPTY CONDUIT WITH PULL STRING FROM CHECKOUT CABINET TO MANAGER'S DESK IN BACK ROOM.
32 PROVIDE (1) 2" EMPTY CONDUIT WITH PULL STRING FROM FUEL CHECKOUT TO CHECKOUT CABINET.

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PROJECT TEAM

ARCHITECTURAL/STRUCTURAL
FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
07/27/26	PERMIT SET

PROFESSIONAL SEAL

NORTH CAROLINA PROFESSIONAL 053741 ENGINEER RYAN E. WATERS
07/28/2026
COA:P-1359

PROFESSIONAL IN CHARGE
R. WATERS – PE

PROJECT MANAGER
AR

QUALITY CONTROL
RW

DRAWN BY
RR

PROJECT NAME

CIRCLE K STORES INC.
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NC 55 & E. JACKSON BLVD.
28339

CIRCLE K STORES INC.

FREY-MOSS STRUCTURE
1801 Rockdale Industrial Blvd.
Conyers, Georgia 30012
Voice: (800) 366-6385
Fax: (770) 483-6037

FMS JOB NUMBER
G25B6

FMS MODEL NUMBER
XXXXXX

PROJECT NUMBER
20260936.0

SHEET TITLE
ELECTRICAL FLOOR PLAN

SHEET NUMBER
E2.0

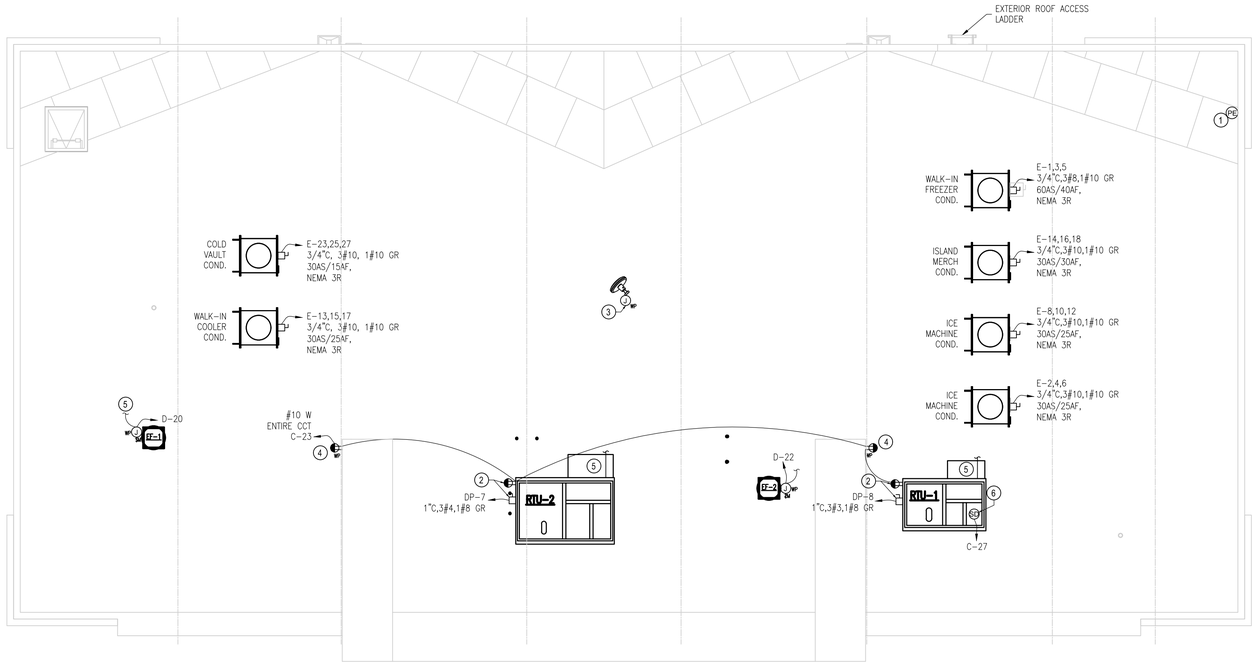
Drawing Name: \\greenbergfarrow.com\Projects\Projects\2026\20260936\500 MEP Construction Documents\G25B6 Circle K\3. Drawings\MC ELEC\E2.0.dwg Last Modified: Jul 24, 2026 - 2:06pm Plotted on: Jul 27, 2026 - 2:22pm by rrivero

ROOF POWER GENERAL NOTES

1. ALL EXTERIOR DEVICES SHALL BE WEATHERPROOF RATED.
2. ALL EQUIPMENT WITH REMOTE CONDENSERS MOUNTED ON THE ROOF SHALL HAVE (1) 1/2" EMPTY CONDUIT BETWEEN THE EQUIPMENT AND THE REMOTE CONDENSER FOR CONTROL CIRCUITS.
3. ROUTE CONDUIT(S) FOR CONDENSERS THROUGH SAME WEATHERPROOF GOOSENECK USED FOR CONDENSATE PIPING - REFER TO DETAIL #2 ON SHEET M1.2.1.
4. SEAL ALL BUILDING PENETRATIONS.
5. HEAT TRACE TO BE PROVIDED IN COLD REGIONS.

KEYNOTES

1 MOUNT PHOTOCELL TO INTERIOR WALL OF PARAPET. ROUTE CONDUIT THROUGH PARAPET WALL TO LIGHTING CONTROL. DETAIL 2/E6.0.
2 ROOF TOP UNIT IS PROVIDED WITH MANUFACTURER FACTORY INSTALLED DISCONNECT AND GFI MAINTENANCE RECEPTACLE. CIRCUIT AS SHOWN.
3 WP JUNCTION BOX ON ROOF FOR SATELLITE DISH WITH 1" EMPTY CONDUIT TO CASHIER COUNTER LOTTO MACHINE. VERIFY EXACT LOCATION OF SATELLITE DISH IN FIELD.
4 WP, GFCI MOISTURE RESISTANT RECEPTACLE ON ROOF.
5 EXTEND CONDUIT AND WIRE TO THERMOSTAT FOR LINE VOLTAGE CONNECTION. COORDINATE WITH MECHANICAL CONTRACTOR.
6 DUCT SMOKE DETECTOR.
7 ROUTE CIRCUIT VIA PHOTOCELL CONTROLLED CONTACTOR. REFERENCE DETAIL 2/E6.0.



ROOF POWER PLAN 1
3/16" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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PROJECT TEAM

ARCHITECTURAL/STRUCTURAL
FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
07/27/26	PERMIT SET

PROFESSIONAL SEAL

NORTH CAROLINA PROFESSIONAL 053741 ENGINEER RYAN E. WATERS
07/28/2026
COA:P-1359

PROFESSIONAL IN CHARGE
R. WATERS - PE
PROJECT MANAGER
AR
QUALITY CONTROL
RW
DRAWN BY
RR

PROJECT NAME

CIRCLE K STORES INC.
ERWIN
NORTH CAROLINA
NC 55 & E. JACKSON BLVD.
28339

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FREY MOSS STRUCTURE
1801 Rockdale Industrial Blvd.
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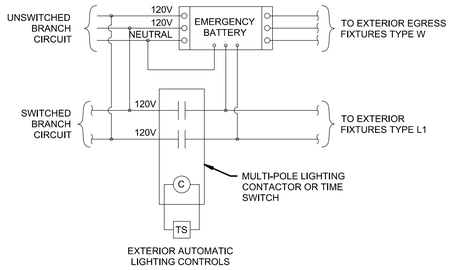
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G25B6
FMS MODEL NUMBER
XXXXXX

PROJECT NUMBER
20260936.0

SHEET TITLE
ROOF POWER PLAN

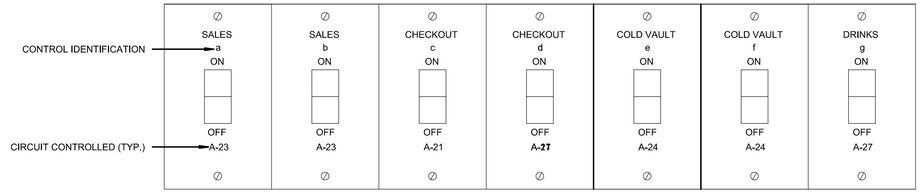
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E4.0

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EXTERIOR EMERGENCY LIGHTING DETAIL | 3

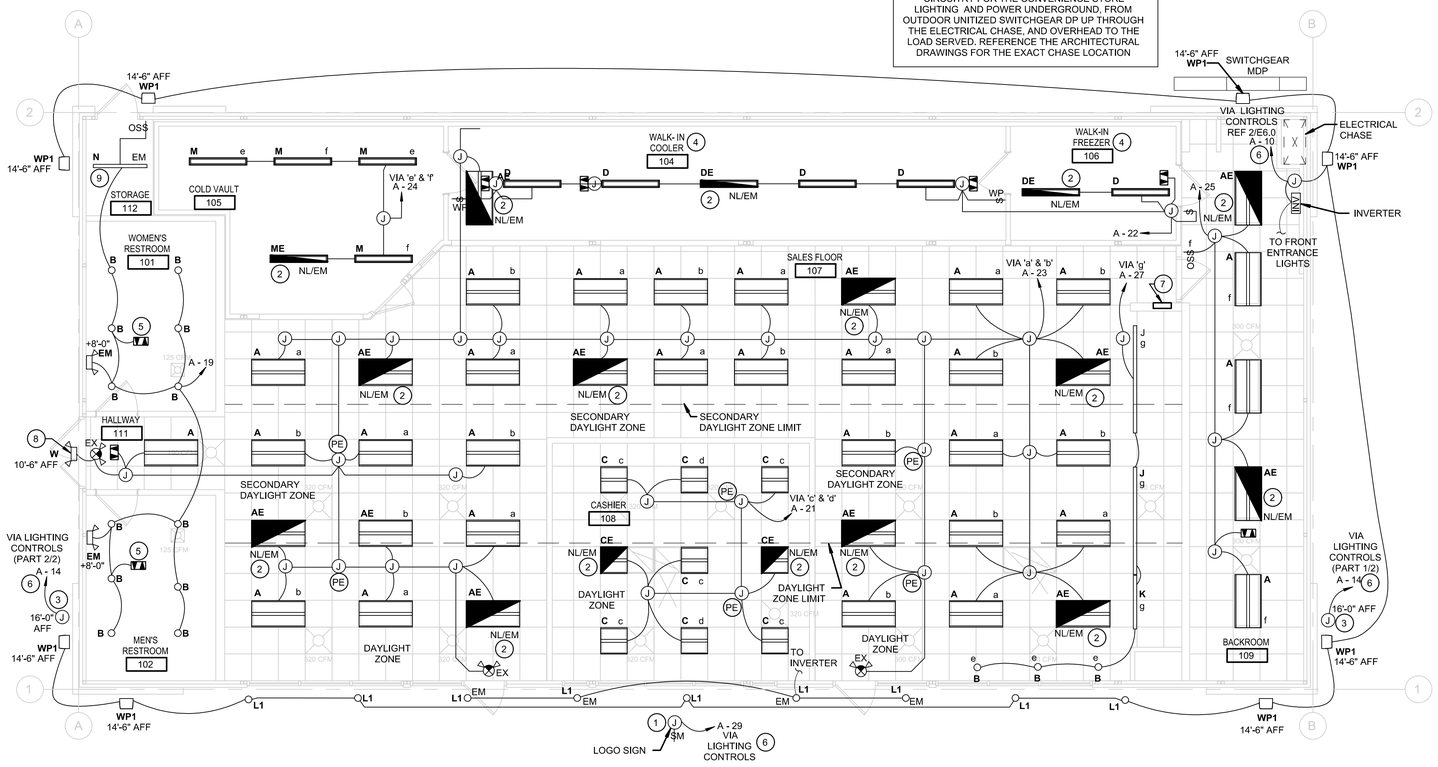
N.T.S.



SWITCHBANK DETAIL | 2

N.T.S.

UNLESS NOTED OTHERWISE, ROUTE ALL BRANCH CIRCUITRY FOR THE CONVENIENCE STORE LIGHTING AND POWER UNDERGROUND, FROM OUTDOOR UNITIZED SWITCHGEAR DP UP THROUGH THE ELECTRICAL CHASE, AND OVERHEAD TO THE LOAD SERVED. REFERENCE THE ARCHITECTURAL DRAWINGS FOR THE EXACT CHASE LOCATION



ELECTRICAL LIGHTING PLAN | 1

3/16" = 1'-0"

LIGHTING GENERAL NOTES

A. COORDINATE ALL WORK WITH OTHER TRADES AND THE PROJECT MANAGER.

B. VERIFY LOCATION AND MOUNTING HEIGHT OF ALL LIGHT FIXTURES WITH THE ARCHITECT / OWNER PRIOR TO ROUGH-IN.

C. THE EXIT, EMERGENCY AND NIGHT LIGHT FIXTURES SHALL NOT BE SWITCHED.

D. RGS CONDUIT SHALL BE USED IN ALL EXTERIOR LOCATIONS.

E. MINIMUM CONDUIT SIZE SHALL BE 1/2".

F. MINIMUM WIRE SIZE SHALL BE #12 THHN/THWN CU.

G. ALL EXTERIOR LIGHT FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL. REFERENCE DETAIL 2/E6.0.

H. REFER TO THE PANEL SCHEDULES ON SHEETS E7.0 AND E7.1 FOR LOAD DESIGNATIONS. THERE SHALL BE NO SHARED NEUTRALS.

I. CONDUIT(S) SHALL NOT BE ROUTED EXPOSED ON ANY EXTERIOR OR INTERIOR WALL.

J. ALL EXTERIOR DEVICES SHALL BE WEATHERPROOF RATED.

K. REFER TO SHEET E0.0 FOR THE LIGHT FIXTURE SCHEDULE.

L. PROVIDE STAINLESS STEEL SWITCH COVERS FOR ALL CUSTOMER ACCESSIBLE AREAS. (RESTROOMS, HALLWAY, COOLER, SALES AREA).

M. ALL EMERGENCY EQUIPMENT SHALL BE LISTED TO UL924 AND BE INSTALLED PER NEC 700.

N. OCCUPANCY SENSORS SHALL BE SET TO MAXIMUM DELAY PER MANUFACTURER INSTRUCTIONS.

KEYNOTES

1. REFER TO ARCHITECTURAL SHEETS FOR ACCESS PANEL FOR SIGNAGE IN THIS SOFFIT AREA.
2. FURNISHED BY VENDOR WITH EMERGENCY BATTERY BACK-UP BALLAST. INSTALL PER MANUFACTURER INSTRUCTIONS.
3. FUTURE SIGNAGE LOCATION.
4. PROVIDE TEMPERATURE SEAL / FIRE STOP FOR ALL CONDUITS AND HOME RUNS IN THESE AREAS PER NEC 300.7.
5. RESTROOM OCCUPANCY SENSOR: SET SENSOR FOR 20 MINUTE TIME DELAY
6. ROUTE CIRCUIT VIA PHOTOCELL CONTROLLED CONTACTOR. REFERENCE DETAIL 2/E6.0.
7. REFER TO SWITCH BANK DETAIL 2/E5.0 FOR SWITCHING OF SALES FLOOR LIGHTING. VERIFY FINAL LOCATION WITH OWNER.
8. PROVIDE HIGHLITES EMERGENCY BATTERY PACK - PCF 250 - BLACK IN COLOR (SEE DETAIL 3/E5.0)
9. SUSPEND LIGHT FIXTURE TO 10'-0" AFF USING ALL-THREAD ROD.

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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PROJECT TEAM

ARCHITECTURAL/STRUCTURAL
FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
07/27/26	PERMIT SET

PROFESSIONAL SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053741 ROSS E. WATERS
07/28/2026
COA:P-1359

PROFESSIONAL IN CHARGE
R. WATERS – PE

PROJECT MANAGER
AR

QUALITY CONTROL
RW

DRAWN BY
RR

PROJECT NAME

CIRCLE K STORES INC.
ERWIN
NORTH CAROLINA
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28339

CIRCLE K STORES INC.

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FMS JOB NUMBER
G25B6

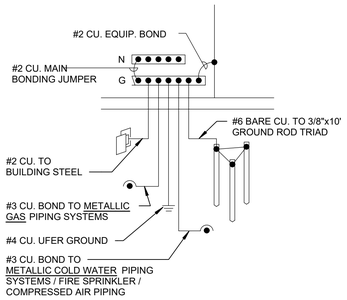
FMS MODEL NUMBER
XXXXXX

PROJECT NUMBER
20260936.0

SHEET TITLE
LIGHTING PLAN

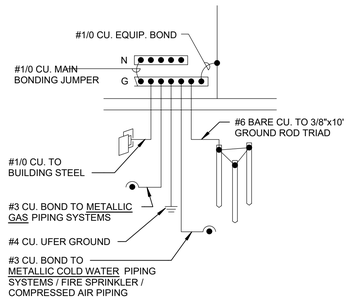
SHEET NUMBER
E5.0

Drawing Name: P:\2026\20260936\00\MEP Construction Documents\G25B6 Circle K\3_Drawing\MC ELEC\E5.0.dwg Last Modified: Jan 30, 2026 - 4:39pm Plotted on: Jul 24, 2026 - 1:51pm by rrivero



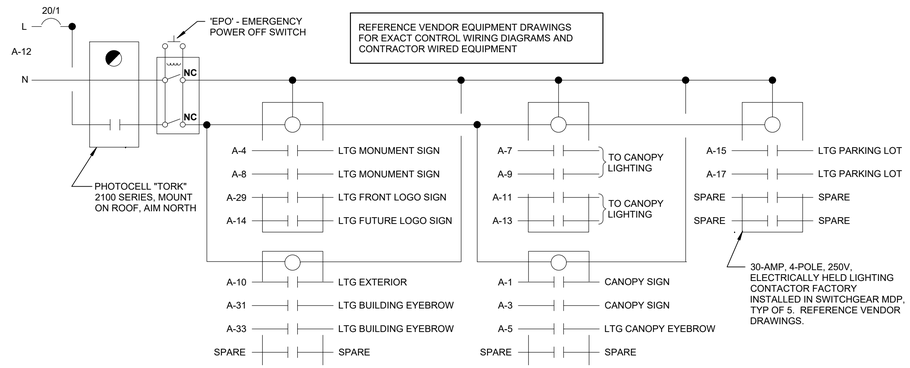
GROUNDING DETAIL - 400 AMP SERVICE | 4

N.T.S.



GROUNDING DETAIL - 800 AMP SERVICE | 3

N.T.S.



LIGHTING CONTROL DIAGRAM | 2

N.T.S.

EQUIPMENT LABELS

ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A LABEL APPLIED TO WARN OF POTENTIAL ARC FLASH HAZARDS.

⚠ WARNING

ARC FLASH AND SHOCK HAZARD. APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED.

NOTES:

A. ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIALLY PRODUCED PERMANENT LABEL APPLIED, SIMILAR TO THE ABOVE, TO WARN OF POTENTIAL ARC FLASH HAZARDS IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E.

B. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR / SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

SERIES RATING GENERAL NOTES

1. THE MOTOR CONTRIBUTION TO THE FAULT CURRENT MEETS THE 1% CRITERIA STATED IN NEC 240.86(C)
2. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR.

ONE-LINE KEYNOTES

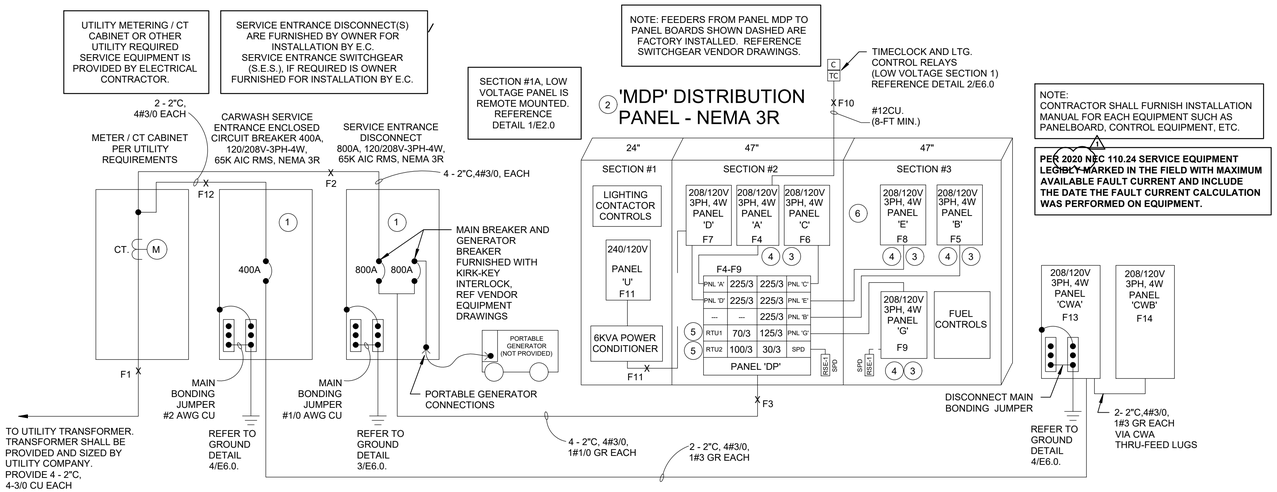
1. THIS SERVICE IS A SERIES RATED SYSTEM: 2-TIER 65/10. ALL SERVICE ENTRANCE EQUIPMENT SYSTEM COMPONENTS SHALL BE RATED 65K, WITH SERIES RATED DOWNSTREAM.
2. CONTRACTOR SHALL LABEL SERVICE ENTRANCE EQUIPMENT "CAUTION - SERIES RATED SYSTEM (65). 65,000 AMPS AVAILABLE IDENTIFIED REPLACEMENT COMPONENT REQUIRED." IN ACCORDANCE WITH NEC 110.22.
3. CONTRACTOR SHALL LABEL PANEL(S) "CAUTION - SERIES RATED SYSTEM ("X"). "X" AMPS AVAILABLE IDENTIFIED REPLACEMENT COMPONENT REQUIRED IN ACCORDANCE WITH NEC 110.22". (REFER TO SHORT CIRCUIT CALCULATIONS FOR ACTUAL AMPS TO BE LABELED).
4. CIRCUIT BREAKERS SHALL BE A BOLT-ON TYPE U.L. LISTED SERIES RATED COMBINATION WITH THE BREAKERS AT DISTRIBUTION PANEL "DP".
5. REFER TO E4.0 ROOF POWER PLAN FOR WIRE AND CONDUIT SIZE FOR ROOF TOP UNITS.
6. MAXIMUM CIRCUIT BREAKER HEIGHT EQUAL TO 6'-7" AFF OR AFG.

UTILITY METERING / CT CABINET OR OTHER UTILITY REQUIRED SERVICE EQUIPMENT IS PROVIDED BY ELECTRICAL CONTRACTOR.

SERVICE ENTRANCE DISCONNECT(S) ARE FURNISHED BY OWNER FOR INSTALLATION BY E.C. SERVICE ENTRANCE SWITCHGEAR (S.E.S.), IF REQUIRED IS OWNER FURNISHED FOR INSTALLATION BY E.C.

SECTION #1A, LOW VOLTAGE PANEL IS REMOTE MOUNTED. REFERENCE DETAIL 1/E2.0

NOTE: FEEDERS FROM PANEL MDP TO PANEL BOARDS SHOWN DASHED ARE FACTORY INSTALLED. REFERENCE SWITCHGEAR VENDOR DRAWINGS.



NOTE:
CONTRACTOR SHALL FURNISH INSTALLATION MANUAL FOR EACH EQUIPMENT SUCH AS PANELBOARD, CONTROL EQUIPMENT, ETC.

⚠ PER 2020 NEC 110.24 SERVICE EQUIPMENT LEGIBLY MARKED IN THE FIELD WITH MAXIMUM AVAILABLE FAULT CURRENT AND INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED ON EQUIPMENT.

RISER DIAGRAM | 1

N.T.S.

PFS CORPORATION
Approval Limited to Factory Built Portion Only

State: North Carolina
Signature: PFS Rahul Bajaj
Title: Staff Plan Reviewer
Date: **09/16/2026**

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PROJECT TEAM

ARCHITECTURAL/STRUCTURAL
FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/03/26	PERMIT SET
⚠1 09/15/26	DEVIATION COMMENTS

PROFESSIONAL SEAL

NORTH CAROLINA PROFESSIONAL 053741 ENGINEER RAHUL E. WATERS
09/15/2026
COA:P-1359

PROFESSIONAL IN CHARGE
R. WATERS – PE

PROJECT MANAGER
AR

QUALITY CONTROL
RW

DRAWN BY
SA

PROJECT NAME

CIRCLE K STORES INC.
ERWIN
NORTH CAROLINA
NC 55 & E. JACKSON BLVD.
28339

CIRCLE K STORES INC.

FREY MOSS STRUCTURE

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Fax: (770) 483-6037

FMS JOB NUMBER
G2586

TN PLAN NUMBER
XXXXXX

PROJECT NUMBER
20260936.0

SHEET TITLE

CALCULATIONS AND SCHEMATICS

SHEET NUMBER

E6.0

Drawing Name: \\greenbergfarrow.com\Projects\Files\Projects\2026\20260936.000_MEP Construction Documents\Q2586 Circle K Erwin NC\1_Drawings\NC ELEC\E6.0.dwg Last Modified: Sep 02, 2026 - 12:00pm Plotted on: Sep 15, 2026 - 10:40am by jflores

PANELBOARD A

STATUS = NEW
FURNISHED BY OWNE

BUS RATING = 225
VOLTAGE = 208/120V
SYSTEM = 3Φ, 4W
MOUNTING = CABINET
TRIM = DOOR-IN-DOOR
NEMA RATING 1
FEED THRU LUGS NO

MAIN RATING UPSTREAM =
MAIN TYPE = M.L.O.
AIC RATING= 65K
FULLY/SERIES = SERIES
BRANCH BREAKER TYPE = BOLT-ON
FEED TYPE = BOTTOM
TERMINATIONS = 75°C CU

LOCATION = DIST. DP
BUS MATERIAL = CU
GROUND BUS (COPPER) = YES
NEUTRAL BUS (COPPER) = 100%
IG GROUND BUS (COPPER) = NO
SKIRT TYPE = NONE
SECTION # = 1

NOTES	CCT NO.	LOAD CODE	LOAD DESCRIPTION	BKR SIZE	LOAD (KVA)	PHASE A	PHASE B	PHASE C	LOAD (KVA)	BRK SIZE	LOAD DESCRIPTION	LOAD CODE	CCT NO.	NOTES
	1	10	FUEL CANOPY SIGN	20	1.20	2.16			0.96	20	LTG. MONUMENT SIGN - PRICE	10	2	
	3	10	FUEL CANOPY SIGN	20	1.20		2.16		0.96	20	LTG. MONUMENT SIGN - LOGO	10	4	
	5	10	FUEL CANOPY EYEBROW	20	0.54			1.50	0.96	20	LTG. MONUMENT SIGN - PRICE	10	6	
	7	10	FUEL CANOPY LIGHTING	20	0.52	1.48			0.96	20	LTG. MONUMENT SIGN - LOGO	10	8	
	9	10		20	0.52		1.35		0.83	20	LTG. EXTERIOR BUILDING	10	10	
	11	10	FUEL CANOPY LIGHTING	20	0.52			0.82	0.30	20	MISC. - LTG CONTACTOR	3	12	
	13	10		20	0.52	1.12			0.60	20	LTG. BUILDING SIGN (FUTURE)	10	14	
	15	10	LTG. EXTERIOR PARKING - POLES	20	0.31		0.91		0.60	20	LTG/HTR WALK-IN CLR DOORS	1	16	
	17	10	LTG. EXTERIOR PARKING - POLES	20	0.31			1.51	1.20	20	LTG/HTR COLD VAULT DOORS	1	18	
	19	1	LTG. RESTROOMS / STOCKROOM	20	0.25	0.90			0.65	20	LTG. COOLER SIGNS	2	20	
	21	1	LTG. CASHIER / PREP	20	0.40		0.72		0.32	20	LTG. WI COOLER & WI FREEZER	1	22	
	23	1	LTG. SALES FLOOR	20	1.58			1.81	0.23	20	LTG. COLD VAULT	1	24	
	25	1	LTG. BACK ROOM / OFFICE	20	0.22	0.37			0.15	20	LED FRAME - COFFEE	2	26	
	27	1	LTG. COFFEE & DRINKS	20	0.06		0.06		0.00	20	SPARE	--	28	
	29	10	CIRCLE K FRONT LOGO SIGN	20	0.15			0.15	--	--	FILLER SPACE	--	30	
	31	10	LTG. BLDG EYEBROW REAR	20	1.44	1.44			--	--	FILLER SPACE	--	32	
	33	10	LTG. BLDG EYEBROW REAR	20	1.44		1.44		--	--	FILLER SPACE	--	34	
	35	--	FILLER SPACE	--	--			1.00	1.00	20	RECIRC. PUMP / AQUA STAT	4	36	
	37	--	FILLER SPACE	--	--	8.00			8.00			3	38	
	39	--	FILLER SPACE	--	--		8.00		8.00	90	WATER HEATER	3	40	
	41	--	FILLER SPACE	--	--			8.00	8.00			3	42	
						15.47	14.64	14.79	Kva					
						128.92 A	122.00 A	123.25 A	Amps					

DEMAND LOADS MAY VARY FROM CONNECTED LOADS BECAUSE OF DEMAND FACTORS

CIRCUIT NUMBERING BY POLE POSITION

Load Codes	Load Summaries	Connected kVA	Factor	Demand kVA
0	Lighting - Non-Continuous	0.00	1.00	0.00
1	Lighting - Continuous	4.86	1.25	6.08
2	Receptacles	0.80	1.00	0.80
3	Special Loads	24.30	1.25	30.38
4	Motors	1.00	1.00	1.00
5	Kitchen (Commercial)	0.00	0.65	0.00
6	Heating	0.00	1.00	0.00
7	Cooling	0.00	1.00	0.00
9	Computer Outlets	0.00	1.00	0.00
10	Exterior Lighting	13.94	1.25	17.43
11	Miscellaneous - Continuous	0.00	1.25	0.00
12	Modular Furniture Outlets	0.00	1.00	0.00

Panel Totals

Total Conn. Load: 44.90 kVAs
Total Est. Demand: 55.68 kVAs
Total Conn. Load: 124.63 A
Total Est. Load: 154.54 A

Spare Capacity: 70.46 A
Spare Capacity Percent: 39.15%

PANELBOARD B

STATUS = NEW
FURNISHED BY OWNE

BUS RATING = 225
VOLTAGE = 208/120V
SYSTEM = 3Φ, 4W
MOUNTING = CABINET
TRIM = DOOR-IN-DOOR
NEMA RATING 1
FEED THRU LUGS NO

MAIN RATING UPSTREAM =
MAIN TYPE = M.L.O.
AIC RATING= 65K
FULLY/SERIES = SERIES
BRANCH BREAKER TYPE = BOLT-ON
FEED TYPE = BOTTOM
TERMINATIONS = 75°C CU

LOCATION = DIST. DP
BUS MATERIAL = CU
GROUND BUS (COPPER) = YES
NEUTRAL BUS (COPPER) = 100%
IG GROUND BUS (COPPER) = NO
SKIRT TYPE = NONE
SECTION # = 1

NOTES	CCT NO.	LOAD CODE	LOAD DESCRIPTION	BKR SIZE	LOAD (KVA)	PHASE A	PHASE B	PHASE C	LOAD (KVA)	BRK SIZE	LOAD DESCRIPTION	LOAD CODE	CCT NO.	NOTES
	1	2	B001 12-HEARD SODA FOUNTAIN	20	0.62	1.22			0.60	20	B101 ICE MAKER	2	2	
	3	2	B001 12-HEARD SODA FOUNTAIN	20	0.62		0.75		0.13	20	B102 ICE MAKER	2	4	
	5	2	REC. BIB EQ B603	20	0.80			3.20	2.40	30	B301 4-HEAD FROSTED VIPER	3	6	
	7	2	RECS. GENERAL BACK RM	20	0.54	2.94			2.40			3	8	
3	9	2	B503 REC. CO2 DETECTION	20	0.18		2.58		2.40	30	B301 4-HEAD FROSTED VIPER	3	10	
3	11	2	B503 REC. CO2 DETECTION	20	0.18			2.58	2.40			3	12	
	13	2	P413 WATER COOLERS	20	0.18	0.18			--	--	SPARE	--	14	
	15	1	COLD VAULT OVAL SIGNS LED	20	0.20		1.70		1.50	20	H303 U.C. MICROWAVE	5	16	
	17	2	BRUSHER CAHRGER RECEPTACLE	20	0.18			1.68	1.50	20	H303 U.C. MICROWAVE	5	18	
	19	3	DOOR EGRESS ALARM REC.	20	0.58	0.88			0.30	20	R207 UNDERCOUNTER REFRIGERATOR	5	20	
2	21	3	P311 WOMENS HAND DRYER	20	0.92		1.08		0.16	20	R309 SCA REFRG CASE FANS/HTRS	4	22	
2	23	3	P311 MENS HAND DRYER	20	0.92			1.07	0.15	20	R309 SCA REFRG CASE LIGHTS	1	24	
	25	--	FILLER SPACE	--	--	1.80			1.80	20	B308 FREAL FREEZER	2	26	
	27	--	FILLER SPACE	--	--		0.00			--	FILLER SPACE	--	28	
	29	--	FILLER SPACE	--	--			2.40	2.40	30	B301 4-HEAD FROSTED VIPER (OPTIONAL)	3	30	8
	31	--	FILLER SPACE	--	--	2.40			2.40			3	32	
	33	--	FILLER SPACE	--	--		0.00			--	FILLER SPACE	--	34	
	35	--	FILLER SPACE	--	--			0.00		--	FILLER SPACE	--	36	
	37	--	FILLER SPACE	--	--	0.00				--	FILLER SPACE	--	38	
	39	--	FILLER SPACE	--	--		0.00			--	FILLER SPACE	--	40	
	41	--	FILLER SPACE	--	--			0.00		--	FILLER SPACE	--	42	
						9.42	6.11	10.93	Kva					
						78.50 A	50.92 A	91.08 A	Amps					

DEMAND LOADS MAY VARY FROM CONNECTED LOADS BECAUSE OF DEMAND FACTORS

CIRCUIT NUMBERING BY POLE POSITION

Load Codes	Load Summaries	Connected kVA	Factor	Demand kVA
0	Lighting - Non-Continuous	0.00	1.00	0.00
1	Lighting - Continuous	0.35	1.25	0.44
2	Receptacles	5.83	1.00	5.83
3	Special Loads	16.82	1.25	21.03
4	Motors	0.16	1.00	0.16
5	Kitchen (Commercial)	3.30	0.90	2.97
6	Heating	0.00	1.00	0.00
7	Cooling	0.00	1.00	0.00
9	Computer Outlets	0.00	1.00	0.00
10	Exterior Lighting	0.00	1.25	0.00
11	Miscellaneous - Continuous	0.00	1.25	0.00
12	Modular Furniture Outlets	0.00	1.00	0.00

Panel Totals

Total Conn. Load: 26.46 kVAs
Total Est. Demand: 30.42 kVAs
Total Conn. Load: 73.45 A
Total Est. Load: 84.44 A

Spare Capacity: 140.56 A
Spare Capacity Percent: 78.09%

PANELBOARD C

STATUS = NEW
FURNISHED BY OWNE

BUS RATING = 225
VOLTAGE = 208/120V
SYSTEM = 3Φ, 4W
MOUNTING = CABINET
TRIM = DOOR-IN-DOOR
NEMA RATING 1
FEED THRU LUGS NO

MAIN RATING UPSTREAM =
MAIN TYPE = M.L.O.
AIC RATING= 65K
FULLY/SERIES = SERIES
BRANCH BREAKER TYPE = BOLT-ON
FEED TYPE = BOTTOM
TERMINATIONS = 75°C CU

LOCATION = DIST. DP
BUS MATERIAL = CU
GROUND BUS (COPPER) = YES
NEUTRAL BUS (COPPER) = 100%
IG GROUND BUS (COPPER) = NO
SKIRT TYPE = NONE
SECTION # = 1

NOTES	CCT NO.	LOAD CODE	LOAD DESCRIPTION	BKR SIZE	LOAD (KVA)	PHASE A	PHASE B	PHASE C	LOAD (KVA)	BRK SIZE	LOAD DESCRIPTION	LOAD CODE	CCT NO.	NOTES
	1	4	WATER / AIR FILL STATION	20	1.56	3.22			1.66	20	C007 COFFEE BREWER	2	2	
8	3	2	HOT BOX - BACKFLOW PREVENTER	20	1.20		2.86		1.66			2	4	
	5	2	R401 6' NOVELTY CASE	20	1.80			3.46	1.66	20	C007 COFFEE BREWER	2	6	
	7	--	FILLER SPACE	20	--	1.66			1.66			2	8	
	9	3	M104 LOTTO RECEPTACLE	20	0.72		2.38		1.66	20	C007 COFFEE BREWER	2	10	
	11	2	FROSTER, POLAR POP BACKGRND	20	0.36			2.02	1.66			2	12	
	13	2	FILLER SPACE	20		1.80			1.80	20	C002 5-HEAD CAPPUCCINO	2	14	
	15	2	LITER RACKS RECEPTACLES	20	1.08		1.08		--	--	FILLER SPACE	--	16	
	17	0	LTG. LED CONTROL / REC.	20	0.54			2.34	1.80	20	C002 5-HEAD CAPPUCCINO	2	18	
	19	2	IRRIGATION CONTROLS	20	0.30	1.08			0.78	20	C202 ICE AND WATER DISPENSER	2	20	
	21	2	DOOR CHIME	20	0.18		1.72		1.54	20	H001 / H005 HOT DOG ROLLER/ BUNS	5	22	
	23	2	ROOF RECEPTACLES	20	0.72			0.72	--	20	FILLER SPACE	--	24	
3,7	25	3	FACP	20	0.18	0.18			--	20	FILLER SPACE	--	26	
3	27	3	DUCT SMOKE DET./ DAMPER PWR	20	0.60		2.09		1.49	40	H209 FLEXESERVE 1000	5	28	
	29	2	C101 2HD COFFEE CREAMER	20	0.34			1.83	1.49			5	30	
	31	2	C101 2HD COFFEE CREAMER	20	0.34	1.83			1.49	40	H209 FLEXESERVE 1000	5	32	
	33	--	FILLER SPACE	--	--		1.49		1.49			5	34	
	35	--	FILLER SPACE	--	--			0.18	0.18	20	REC. OPEN AIR COOLER	2	36	8
	37	--	FILLER SPACE	--	--	0.54			0.54	20	RECS. CONVENIENCE OUTLET	2	38	
	39	--	FILLER SPACE	--	--		0.00		--	20	FILLER SPACE	--	40	
	41	--	FILLER SPACE	--	--			0.00	--	20	FILLER SPACE	--	42	
						10.31	11.62	10.55	Kva					
						85.88 A	96.83 A	87.88 A	Amps					

DEMAND LOADS MAY VARY FROM CONNECTED LOADS BECAUSE OF DEMAND FACTORS

CIRCUIT NUMBERING BY POLE POSITION

Load Codes	Load Summaries	Connected kVA	Factor	Demand kVA
0	Lighting - Non-Continuous	0.54	1.25	0.68
1	Lighting - Continuous	0.00	0.00	0.00
2	Receptacles	21.37	1.00	15.69
3	Special Loads	1.50	1.25	1.88
4	Motors	1.56	1.00	1.56
5	Kitchen (Commercial)	7.50	0.70	5.25
6	Heating	0.00	1.00	0.00
7	Cooling	0.00	1.00	0.00
9	Computer Outlets	0.00	1.00	0.00
10	Exterior Lighting	0.00	1.25	0.00
11	Miscellaneous - Continuous	0.00	1.25	0.00
12	Modular Furniture Outlets	0.00	1.00	0.00

Panel Totals

Total Conn. Load: 32.47 kVAs
Total Est. Demand: 25.05 kVAs
Total Conn. Load: 90.13 A
Total Est. Load: 69.52 A

Spare Capacity: 155.48 A
Spare Capacity Percent: 86.38%

PANELBOARD D

STATUS = NEW
FURNISHED BY OWNE

BUS RATING = 225
VOLTAGE = 208/120V
SYSTEM = 3Φ, 4W
MOUNTING = CABINET
TRIM = DOOR-IN-DOOR
NEMA RATING 1
FEED THRU LUGS NO

MAIN RATING UPSTREAM =
MAIN TYPE = M.L.O.
AIC RATING= 65K
FULLY/SERIES = SERIES
BRANCH BREAKER TYPE = BOLT-ON
FEED TYPE = BOTTOM
TERMINATIONS = 75°C CU

LOCATION = DIST. DP
BUS MATERIAL = CU
GROUND BUS (COPPER) = YES
NEUTRAL BUS (COPPER) = 100%
IG GROUND BUS (COPPER) = NO
SKIRT TYPE = NONE
SECTION # = 1

NOTES	CCT NO.	LOAD CODE	LOAD DESCRIPTION	BKR SIZE	LOAD (KVA)	PHASE A	PHASE B	PHASE C	LOAD (KVA)	BRK SIZE	LOAD DESCRIPTION	LOAD CODE	CCT NO.	NOTES
	1	2	CIGARETTE BACK BAR RECS.	20	0.99	0.99			--	--	FILLER SPACE	--	2	4,8
	3	2	REC. SHOW WINDOW	20	1.16		1.34		0.18	20	VENDING MACHINE	2	4	4,8
	5	2	REC. SHOW WINDOW	20	1.60			2.70	1.10	20	M105 ICE MECHANDISER	2	6	4,8
	7	2	REC. SHOW WINDOW	20	1.60	2.70			1.10	20	M105 ICE MECHANDISER	2	8	4,8
	9	2	REC. RESTROOMS (P102,P104,P108)	20	1.08		1.44		0.36	20	GONDOLA FLOOR RECS.	2	10	
	11	--	FILLER SPACE	--	--			0.36	0.36	20	GONDOLA FLOOR RECS.	2	12	
	13	2	REC. PREP CONVENIENCE	20	0.54	0.90			0.36	20	M001 GONDOLA FLOOR RECES.	2	14	
	15	2	RECS. PROFUEL DESK	20	0.36		0.72		0.36	20	M001 GONDOLA FLOOR RECES.	2	16	
	17	5			1.93			1.93	--	--	FILLER SPACE	--	18	
4	19	5	H201 COMBI OVEN	25	1.93	2.29			0.36	20	EF1	4	20	
	21	5			1.93		2.29		0.36	20	EF2	4	22	
4	23	5	H202 VENTLESS HOOD	20	0.05			0.05	--	--	FILLER SPACE	--	24	
	25	5			0.05	0.05			--	--	FILLER SPACE	--	26	
	27	5			2.16		2.88		0.72	20	REC. POS	2	28	
4	29	5	H211 UNOX SPEEDPRO OVEN	20	2.16			2.52	0.36	20	H402 BAKERY CASE	5	30	
	31	5			2.16	2.75			0.59	20	C112 COFFEE COND. FLOOR RECS.	2	32	
	33	5			2.16		2.40		0.24	20	R202 27" U.C. FREEZER	5	34	
4,8	35	5	H211 UNOX SPEEDPRO OVEN (OPTIONAL)	20	2.16			2.44	0.28	20	R206 UNDER COUNTER REFRIG.	2	36	4
	37	5			2.16	2.52			0.36	20	SELF CHECK DRN RECEPT	2	38	
9	39	2	PANEL U VIA 8KVA POWER CONDITIONER	40	2.82		3.18		0.36	20	SELF CHECK DRN RECEPT	2	40	
	41	2			3.24			3.60	0.36	20	SMART DESK REC. POS	2	42	
						12.20	14.25	13.60	Kva					
						101.67 A	118.75 A	113.33 A	Amps					

DEMAND LOADS MAY VARY FROM CONNECTED LOADS BECAUSE OF DEMAND FACTORS

CIRCUIT NUMBERING BY POLE POSITION

Load Codes	Load Summaries	Connected kVA	Factor	Demand kVA
0	Lighting - Non-Continuous	0.00	1.00	0.00
1	Lighting - Continuous	0.00	1.25	0.00
2	Receptacles	19.88	1.00	14.94
3	Special Loads	0.00	1.00	0.00
4	Motors	0.72	1.00	0.72
5	Kitchen (Commercial)	19.45	0.65	12.64
6	Heating	0.00	1.00	0.00
7	Cooling	0.00	1.00	0.00
9	Computer Outlets	0.00	1.00	0.00
10	Exterior Lighting	0.00	1.25	0.00
11	Miscellaneous - Continuous	0.00	1.25	0.00
12	Modular Furniture Outlets	0.00	1.00	0.00

Panel Totals

Total Conn. Load: 40.05 kVAs
Total Est. Demand: 28.30 kVAs
Total Conn. Load: 111.17 A
Total Est. Load: 78.56 A

Spare Capacity: 146.44 A
Spare Capacity Percent: 81.36%

PANELBOARD E

STATUS = NEW
FURNISHED BY OWNE

BUS RATING = 225
VOLTAGE = 208/120V
SYSTEM = 3Φ, 4W
MOUNTING = CABINET
TRIM = DOOR-IN-DOOR
NEMA RATING 1
FEED THRU LUGS NO

MAIN RATING UPSTREAM =
MAIN TYPE = M.L.O.
AIC RATING= 65K
FULLY/SERIES = FULLY
BRANCH BREAKER TYPE = BOLT-ON
FEED TYPE = BOTTOM
TERMINATIONS = 75°C CU

LOCATION = DIST. DP
BUS MATERIAL = CU
GROUND BUS (COPPER) = YES
NEUTRAL BUS (COPPER) = 100%
IG GROUND BUS (COPPER) = NO
SKIRT TYPE = NONE
SECTION # = 1

NOTES	CCT NO.	LOAD CODE	LOAD DESCRIPTION	BKR SIZE	LOAD (KVA)	PHASE A	PHASE B	PHASE C	LOAD (KVA)	BRK SIZE	LOAD DESCRIPTION	LOAD CODE	CCT NO.	NOTES
	1	4			2.08	3.97			1.89			4	2	
	3	4	WALK-IN FREEZER CONDENSER	25	2.08		3.97		1.89	25	B201 ICE MACHINE CONDENSER	4	4	
	5	4			2.08			3.97	1.89			4	6	
	7	4	WALK-IN FREEZER EVAP	20	1.43	3.32			1.89			4	8	
	9	4			1.43		3.32		1.89	25	B202 ICE MACHINE CONDENSER	4	10	
2	11	2	WALK-IN FRZR DOOR HTR/ REC	20	0.40			2.29	1.89			4	12	
	13	4			2.55	5.06			2.51			4	14	
	15	4	WALK-IN COOLER CONDENSER	30	2.55		5.06		2.51	30	R310 REF. ISLAND CONDENSER	4	16	
	17	4			2.55			5.06	2.51			4	18	
	19	4	WALK-IN COOLER EVAPORATORS	20	1.56	1.56			--	--	FILLER SPACE	--	20	
	21	4			1.56		1.56		--	--	FILLER SPACE	--	22	
	23	4			2.08			2.08	--	--	FILLER SPACE	--	24	
	25	4	COLD VAULT CONDENSER - R005	25	2.08	2.08			--	--	FILLER SPACE	--	26	
	27	4			2.08		2.08		--	--	FILLER SPACE	--	28	
	29	4	COLD VAULT EVAPORATOR	20	0.17			0.17	--	--	FILLER SPACE	--	30	
	31	--	FILLER SPACE	--	--	0.00			--	--	FILLER SPACE	--	32	
	33	--	FILLER SPACE	--	--		0.00		--	--	FILLER SPACE	--	34	
4	35	--	SPARE	20	--			0.00	--	--	FILLER SPACE	--	36	
	37	--	SPARE	20	--	0.00			--	--	FILLER SPACE	--	38	
	39	2	REC. ATM	20	0.24		0.24		--	--	FILLER SPACE	--	40	
	41	--	FILLER SPACE					0.00	--	--	FILLER SPACE	--	42	
						15.99	16.23	13.57	Kva					
						133.25 A	135.25 A	113.08 A	Amps					

DEMAND LOADS MAY VARY FROM CONNECTED LOADS BECAUSE OF DEMAND FACTORS

CIRCUIT NUMBERING BY POLE POSITION

Load Codes	Load Summaries	Connected kVA	Factor	Demand kVA
0	Lighting - Non-Continuous	0.00	1.00	0.00
1	Lighting - Continuous	0.00	1.25	0.00
2	Receptacles	0.64	1.00	0.64
3	Special Loads	0.00	1.00	0.00
4	Motors	45.15	1.00	45.15
5	Kitchen (Commercial)	0.00	0.90	0.00
6	Heating	0.00	1.00	0.00
7	Cooling	0.00	1.00	0.00
9	Computer Outlets	0.00	1.00	0.00
10	Exterior Lighting	0.00	1.25	0.00
11	Miscellaneous - Continuous	0.00	1.25	0.00
12	Modular Furniture Outlets	0.00	1.00	0.00

Panel Totals

Total Conn. Load: 45.79 kVAs
Total Est. Demand: 45.79 kVAs
Total Conn. Load: 127.10 A
Total Est. Load: 127.10 A

Spare Capacity: 97.90 A
Spare Capacity Percent: 54.39%

PANELBOARD G

STATUS = NEW
FURNISHED BY OWNER, INSTALLED BY EC

BUS RATING = 125
VOLTAGE = 208/120V
SYSTEM = 3Φ, 4W
MOUNTING = CABINET
TRIM = DOOR-IN-DOOR
NEMA RATING 1
FEED THRU LUGS NO

MAIN RATING UPSTREAM =
MAIN TYPE = M.L.O.
AIC RATING= 65K
FULLY/SERIES = FULLY
BRANCH BREAKER TYPE = BOLT-ON
FEED TYPE = BOTTOM
TERMINATIONS = 75°C CU

LOCATION = DIST. DP
BUS MATERIAL = CU
GROUND BUS (COPPER) = YES
NEUTRAL BUS (COPPER) = 100%
IG GROUND BUS (COPPER) = NO
SKIRT TYPE = NONE
SECTION # = 1

NOTES	CCT NO.	LOAD CODE	LOAD DESCRIPTION	BKR SIZE	LOAD (KVA)	PHASE A	PHASE B	PHASE C	LOAD (KVA)	BRK SIZE	LOAD DESCRIPTION	LOAD CODE	CCT NO.	NOTES
	1	4	SUBMRG. 2HP PUMP REGULAR	20	1.38	1.64			0.26	20	MISC. - DISPENSER #1	3	2	
	3	4			1.38		1.38		--	--	SWITCHED NEUTRAL	--	4	
	5	4	SUBMRG. 2HP PUMP REGULAR	20	1.38			1.64	0.26	20	MISC. - DISPENSER #2	3	6	
	7	4			1.38	1.38			--	--	SWITCHED NEUTRAL	--	8	
	9	4	SUBMRG. 2HP PUMP CK CHOICE	20	1.38		1.64		0.26	20	MISC. - DISPENSER #3	3	10	
	11	4			1.38			1.38	--	--	SWITCHED NEUTRAL	--	12	
	13	4	SUBMRG. 2HP PUMP SUL	20	1.38	1.64			0.26	20	MISC. - DISPENSER #4	3	14	
	15	4			1.38		1.38		--	--	SWITCHED NEUTRAL	--	16	
	17	4	SUBMRG. 2HP PUMP DIESEL	20	1.38			1.64	0.26	20	MISC. - DISPENSER #5	3	18	
	19	4			1.38	1.38			--	--	SWITCHED NEUTRAL	--	20	
	21	--	FILLER SPACE	--	--		0.26		0.26	20	MISC. - DISPENSER #6	3	22	
	23	--	FILLER SPACE	--	--			0.00	--	--	SWITCHED NEUTRAL	--	24	
	25	--	FILLER SPACE	--	--	0.00			--	--	FILLER SPACE	--	26	
	27	--	FILLER SPACE	--	--		0.00		--	--	FILLER SPACE	--	28	
	29	--	FILLER SPACE	--	--			0.00	--	--	FILLER SPACE	--	30	
	31	--	SWITCHED NEUTRAL	--	--	0.00			--	--	FILLER SPACE	--	32	
9	33	2	E-STOP CONTROL PWR	15	0.18		0.18		--	--	FILLER SPACE	--	34	
	35	2	SPARE ELECTRONICS	20	0.36			0.36	--	--	FILLER SPACE	--	36	
	37	3	VEEDER ROOT (E1)	20	0.24	0.25			0.01			11	38	
	39	2	INTERCOM CONTROLLER (E2)	20	0.36		0.37		0.01	30	SPD	11	40	9
	41	2	DISTRIBUTION BOX (E3)	20	0.36			0.37	0.01			11	42	
						6.29	5.21	5.39	Kva					
						52.42 A	43.42 A	44.92 A	Amps					

DEMAND LOADS MAY VARY FROM CONNECTED LOADS BECAUSE OF DEMAND FACTORS

CIRCUIT NUMBERING BY POLE POSITION

Load Codes	Load Summaries	Connected kVA	Factor	Demand kVA
0	Lighting - Non-Continuous	0.00	1.00	0.00
1	Lighting - Continuous	0.00	1.25	0.00
2	Receptacles	1.26	1.00	1.26
3	Special Loads	1.80	1.25	2.25
4	Motors	13.80	1.00	13.80
5	Kitchen (Commercial)	0.00	0.90	0.00
6	Heating	0.00	1.00	0.00
7	Cooling	0.00	1.00	0.00
9	Computer Outlets	0.00	1.00	0.00
10	Exterior Lighting	0.00	1.25	0.00
11	Miscellaneous - Continuous	0.03	1.25	0.04
12	Modular Furniture Outlets	0.00	1.00	0.00

Panel Totals

Total Conn. Load: 16.89 kVAs
Total Est. Demand: 17.35 kVAs
Total Conn. Load: 46.88 A
Total Est. Load: 48.15 A

Spare Capacity: 76.85 A
Spare Capacity Percent: 76.85%

PANELBOARD CIRCUIT NOTES

1. TERMINATE GROUND ON ISOLATED GROUND BUS.
2. INSTALL LOCKING DEVICE ON BREAKER PER NEC (LOCK-OFF FOR MAINTENANCE).
3. INSTALL LOCKING DEVICE ON BREAKER PER NEC (LOCK-ON FOR CRITICAL LOAD).
4. GFI BREAKER FOR PERSONNEL PROTECTION (5MA).
5. REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR SIZES.
6. PROVIDE LOCK-OFF DEVICE TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS PER NEC.
7. FIRE ALARM CIRCUIT. PROVIDE RED MARKING AND LABEL "FIRE ALARM CIRCUIT CONTROL" ON BREAKER.
8. OPTIONAL EQUIPMENT: REVISE TO SPACE FILLER IF NOT USED ON SITE.
9. FACTORY INSTALLED WIRING IN UNITIZED SWITCHGEAR.

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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PROJECT TEAM
ARCHITECTURAL/STRUCTURAL
FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
07/27/26	PERMIT SET

PROFESSIONAL SEAL
NORTH CAROLINA PROFESSIONAL SEAL 053741 ENGINEER ROSS E. WATERS
07/28/2026
COA:P-1359

PROFESSIONAL IN CHARGE
R. WATERS – PE
PROJECT MANAGER
AR
QUALITY CONTROL
RW
DRAWN BY
RR
PROJECT NAME

CIRCLE K STORES INC.
ERWIN
NORTH CAROLINA
NC 55 & E. JACKSON BLVD.
28339

CIRCLE K STORES INC.

FREY-MOSS STRUCTURE
1801 Rockdale Industrial Blvd.
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FMS JOB NUMBER
G25B6
FMS MODEL NUMBER
XXXXXX

PROJECT NUMBER
20260936.0
SHEET TITLE

PANEL SCHEDULES

SHEET NUMBER

E7.0

Drawing Name: \\greenbergfarrow.corp\ProjectFiles\Projects\2026\202600650\500 MEP Construction Documents\G25B6 Circle K\3. Drawings\NC ELEC\E7.0.dwg Last Modified: Jul 24, 2026 – 2:06pm Plotted on: Jul 27, 2026 – 2:23pm by rrivero

20A WIRE SIZING SCHEDULE

ALL WIRE SIZES SHOWN ON PANEL SCHEDULES ARE INTENDED TO BE MINIMUM ACCEPTABLE WIRE SIZE.

THE FOLLOWING SCHEDULE IS TO BE USED TO SIZE WIRE FOR 20 AMP CIRCUITS (120 VOLT). LENGTHS (IN FEET) ARE INTENDED TO BE MAXIMUM.

120 VOLT	#12	#10	#8	#6
1-5 AMPS	200 FT.	325 FT.	490 FT.	770 FT.
6-10 AMPS	100 FT.	160 FT.	245 FT.	385 FT.
11-15 AMPS	70 FT.	110 FT.	165 FT.	255 FT.

GROUND WIRE SIZING CHART

BRKR AMPS		WIRE SIZE				
15-20	PHASE	12	10	8	6	4
	GROUND	12	10	8	6	4
25-30	PHASE	10	8	6	4	3
	GROUND	10	8	6	4	3
35-50	PHASE	8	6	4	3	2
	GROUND	10	8	4	4	4
60	PHASE	6	4	3	2	1
	GROUND	10	6	6	4	4
70	PHASE	6	4	3	2	1
	GROUND	8	4	4	3	2
80-90	PHASE	4	3	2	1	1/0
	GROUND	8	6	4	4	3
100	PHASE	3	2	1	1/0	2/0
	GROUND	8	6	4	4	3
PER NEC 250.122(B)						

GENERAL PANELBOARD NOTES

1. CIRCUIT BREAKERS IN PANELBOARDS SHALL BE U.L. LISTED SERIES RATED WITH SPECIFIED 65K AIC UPSTREAM CIRCUIT BREAKER AND DOWNSTREAM 10K AMP RATED BRANCH CIRCUIT BREAKERS.
2. PROVIDE A PERMANENT LABEL READING "CAUTION - SERIES RATED SYSTEM 65K, "X" AMPS AVAILABLE." IDENTIFIED (LABELED) REPLACEMENT COMPONENTS REQUIRED. (REFER TO SHORT CIRCUIT CALCULATIONS FOR ACTUAL AMPS TO BE LABELED).
3. CIRCUIT BREAKERS SHALL BE A BOLT-ON TYPE, U.L. LISTED SERIES-RATED COMBINATION FROM PUBLISHED COMBINATION LISTINGS .

PANELBOARD CIRCUIT NOTES

1. TERMINATE GROUND ON ISOLATED GROUND BUS.
2. INSTALL LOCKING DEVICE ON BREAKER PER NEC (LOCK-OFF FOR MAINTENANCE).
3. INSTALL LOCKING DEVICE ON BREAKER PER NEC (LOCK-ON FOR CRITICAL LOAD).
4. GFI BREAKER FOR PERSONNEL PROTECTION (5MA).
5. REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR SIZES.
6. PROVIDE LOCK-OFF DEVICE TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS PER NEC.
7. FIRE ALARM CIRCUIT. PROVIDE RED MARKING AND LABEL "FIRE ALARM CIRCUIT CONTROL" ON BREAKER.
8. OPTIONAL EQUIPMENT: REVISE TO SPACE FILLER IF NOT USED ON SITE.
9. FACTORY INSTALLED WIRING IN UNITIZED SWITCHGEAR.

PANELBOARD U

STATUS = NEW
FURNISHED BY OWNER, INSTALLED BY EC

BUS RATING = 100
VOLTAGE = 120/240V
SYSTEM = 1*,3W
MOUNTING = CABINET
TRIM = DOOR-IN-DOOR
NEMA RATING 1
FEED THRU LUGS NO

MAIN RATING UPSTREAM =
MAIN TYPE = M.L.O.
AIC RATING= 65K
FULLY/SERIES = SERIES
BRANCH BREAKER TYPE = BOLT-ON
FEED TYPE = BOTTOM
TERMINATIONS = 75°C CU

LOCATION = DIST. DP
BUS MATERIAL = CU
GROUND BUS (COPPER) = YES
NEUTRAL BUS (COPPER) = 100%
IG GROUND BUS (COPPER) = NO
SKIRT TYPE = NONE
SECTION # = 1

NOTES	CCT NO.	LOAD CODE	LOAD DESCRIPTION	BKR SIZE	LOAD (KVA)	PHASE A	PHASE B	LOAD (KVA)	BRK SIZE	LOAD DESCRIPTION	LOAD CODE	CCT NO.	NOTES
	1	2	SELF CHECK POS SYSTEM	20	1.32	1.50		0.18	20	REC. CCTV SERVICE	2	2	
	3	2	SELF CHECK POS SYSTEM	20	1.32		2.52	1.20	20	REC. BACK OFFICE COMPUTER	2	4	
	5	2	REC. SECONDARY COMMUNICATION	20	0.36	1.32		0.96	20	T301 SAFE REC	2	6	
	7	2	REC. DATA COMMUNICATIONS	20	0.36		0.72	0.36	20	RECS. LOTTO EQ44	2	8	
	9	--	FILLER SPACE	--	--	0.00			--	FILLER SPACE	2	10	
	11	--	FILLER SPACE	--	--		0.00		--	FILLER SPACE	--	12	
	13	--	FILLER SPACE	--	--	0.00			--	FILLER SPACE	--	14	
	15	--	FILLER SPACE	--	--		0.00		--	FILLER SPACE	--	16	
						2.82	3.24	Kva					
						23.50 A	27.00 A	Amps					

DEMAND LOADS MAY VARY FROM CONNECTED LOADS BECAUSE OF DEMAND FACTORS

CIRCUIT NUMBERING BY POLE POSITION

Load Codes	Load Summaries	Connected kVA	Factor	Demand kVA
0	Lighting - Non-Continuous	0.00	1.00	0.00
1	Lighting - Continuous	0.00	1.25	0.00
2	Receptacles	6.06	1.00	6.06
3	Special Loads	0.00	1.00	0.00
4	Motors	0.00	1.00	0.00
5	Kitchen (Commercial)	0.00	0.90	0.00
6	Heating	0.00	1.00	0.00
7	Cooling	0.00	1.00	0.00
9	Computer Outlets	0.00	1.00	0.00
10	Exterior Lighting	0.00	1.25	0.00
11	Miscellaneous - Continuous	0.00	1.25	0.00
12	Modular Furniture Outlets	0.00	1.00	0.00

Panel Totals

Total Conn. Load:	6.06	kVAs
Total Est. Demand:	6.06	kVAs
Total Conn. Load:	25.25	A
Total Est. Load:	25.25	A

SWITCHBOARD DP

STATUS = NEW
FURNISHED BY OWNER, I

BUS RATING = 800
VOLTAGE = 208/120V
SYSTEM = 3*, 4W
MOUNTING = CABINET
TRIM = DOOR-IN-DOOR
NEMA RATING 1
FEED THRU LUGS NO

MAIN RATING UPSTREAM =
MAIN TYPE = M.L.O.
AIC RATING= 65K
FULLY/SERIES = FULLY
BRANCH BREAKER TYPE = BOLT-ON
FEED TYPE = BOTTOM
TERMINATIONS = 75°C CU

LOCATION = DIST. DP
BUS MATERIAL = CU
GROUND BUS (COPPER) = YES
NEUTRAL BUS (COPPER) = 100%
IG GROUND BUS (COPPER) = NO
SKIRT TYPE = NONE
SECTION # = 1

NOTES	CCT NO.	LOAD CODE	LOAD DESCRIPTION	BKR SIZE	POLES	PHASE A	PHASE B	PHASE C	REMARKS
9	1	--	PANEL A	225	3	15.47	14.64	14.79	
9	2	--	PANEL B	225	3	9.42	6.11	10.93	
9	3	--	PANEL C	225	3	10.31	11.62	10.55	
9	4	--	PANEL D	225	3	12.20	14.25	13.60	
9	5	--	PANEL E	225	3	15.99	16.23	13.57	
--	6	--	PANEL G	125	3	6.29	5.21	5.39	
--	7	4	RTU 1	70	3	6.42	6.42	6.42	
--	8	4	RTU 2	100	3	8.83	8.83	8.83	
--	9	--	FILLER SPACE			--	--	--	
9	10	11	SPD	30	3	0.01	0.01	0.01	
						84.93	83.31	84.08	Kva
						707.72 A	694.25 A	700.63 A	Amps

CIRCUIT NUMBERING BY POLE POSITION
DEMAND LOADS MAY VARY FROM CONNECTED LOADS BECAUSE OF DEMAND FACTORS

Load Codes	Load Summaries	Connected kVA	Factor	Demand kVA
0	Lighting - Non-Continuous	0.54	1.25	0.68
1	Lighting - Continuous	5.21	1.25	6.51
2	Receptacles	55.84	1.00	32.92
3	Special Loads	44.42	1.25	55.53
4	Motors	108.14	1.00	108.14
5	Kitchen (Commercial)	30.25	0.65	19.66
6	Heating	0.00	1.00	0.00
7	Cooling	0.00	1.00	0.00
9	Computer Outlets	0.00	1.00	0.00
10	Exterior Lighting	13.94	1.25	17.43
11	Miscellaneous - Continuous	0.06	1.25	0.08
12	Modular Furniture Outlets	0.00	1.00	0.00

Panel Totals

Total Conn. Load:	252.31	kVAs
Total Est. Demand:	240.94	kVAs
Total Conn. Load:	700.35	A
Total Est. Load:	668.77	A
Spare Capacity:	131.23	A
Spare Capacity Percent:	20.50%	

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State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

FAULT CURRENT CALCULATIONS

THE FOLLOWING CALCULATIONS ARE BASED ON THE "POINT-BY-POINT" METHOD WHERE:

Isc = Isc x M M=1/(1+f) 3PH f = 1.73 x L x I / C x E x n 1PH f = 2 x L x I / C x E x n

XFMR: 300,000 KVA
XMR location not finalized, worst case scenario shown below.

IS(sca) = Vp x M x IS(sca) / Vs

Fault Point	Panel/ Transformer	Source (Fault Point)	Source I (amps)	Conduit Type	Number of Sets	Wire Size	C' value	E (volts)	L (length)	1PH/3PH	X'FMR %Z	f	M	Isc
F0	UTILITY X'FMR	0	65,000								2%			65,000
F1	CT CABINET	1	65,000	NM	4	3/0 CU	13,923	208	0	1.73		0.000	1.00	65,000
F2	SERVICE DISC	2	65,000	NM	4	3/0 CU	13,923	208	20	1.73		0.194	0.84	54,432
F3	DIST. DP	3	54,432	NM	4	3/0 CU	13,923	208	35	1.73		0.285	0.78	42,375
F4	PANEL 'A'	3	42,375	M	1	4/0 CU	15,082	208	0	1.73		0.000	1.00	42,375
F5	PANEL 'B'	3	42,375	M	1	4/0 CU	15,082	208	0	1.73		0.000	1.00	42,375
F6	PANEL 'C'	3	42,375	M	1	4/0 CU	15,082	240	0	2		0.000	1.00	42,375
F7	PANEL 'D'	3	42,375	M	1	4/0 CU	15,082	208	0	1.73		0.000	1.00	42,375
F8	PANEL 'E'	3	42,375	M	1	4/0 CU	15,082	208	0	1.73		0.000	1.00	42,375
F9	PANEL 'G'	3	42,375	M	1	1/0 CU	8,925	208	0	1.73		0.000	1.00	42,375
F10	LTG. CONTACT	3	42,375	M	1	1/0 CU	8,925	208	5	1.73		0.197	0.84	35,388
F11	PANEL 'U'	3	35,388	M	1	#1 CU	7,293	208	5	1.73		0.202	0.83	29,446
F12	SERVICE DISC	2	29,446	NM	2	3/0 CU	13,923	120	8	1.73		0.122	0.89	26,245
F13	PANEL 'CWA'	3	26,245	NM	1	3/0 CU	13,923	208	0	1.73		0.000	1.00	26,245

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PROJECT TEAM

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FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
07/27/26	PERMIT SET

PROFESSIONAL SEAL

NORTH CAROLINA PROFESSIONAL 053741 ENGINEER RYAN E. WATERS
07/28/2026
COA:P-1359

PROFESSIONAL IN CHARGE
R. WATERS – PE

PROJECT MANAGER
AR

QUALITY CONTROL
RW

DRAWN BY
RR

PROJECT NAME

CIRCLE K STORES INC.

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FMS JOB NUMBER
G25B6

FMS MODEL NUMBER
XXXXXX

PROJECT NUMBER
20260936.0

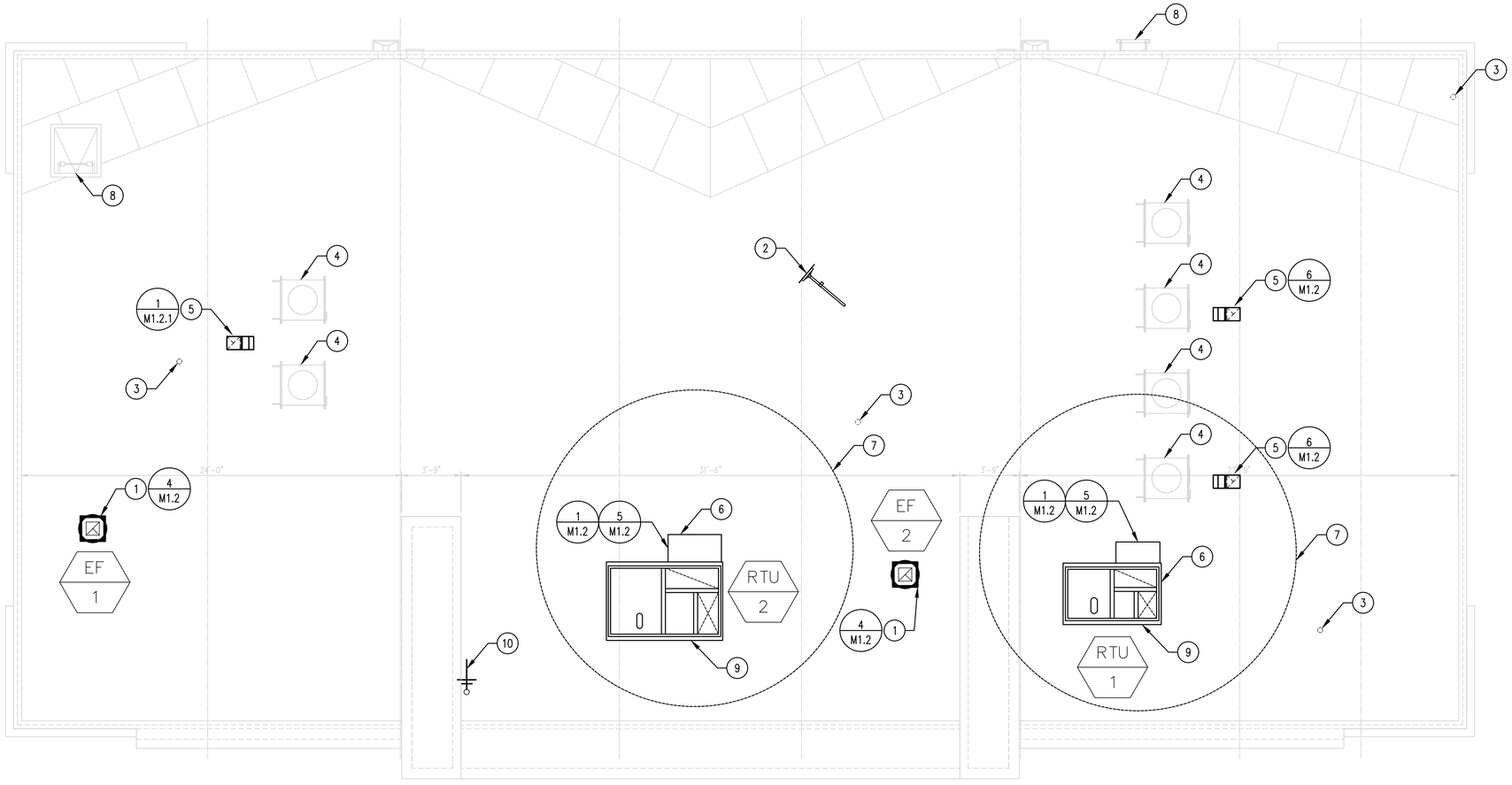
SHEET TITLE

PANEL SCHEDULES

SHEET NUMBER

E7.1

Drawing Name: P:\2026\20260650\500 MEP Construction Documents\G25B6 Circle K\3. Drawings\MC ELEV\E7.1.dwg Last Modified: Jul 24, 2026 - 1:44pm Plotted on: Jul 24, 2026 - 1:54pm by rfinero



MECHANICAL ROOF PLAN 1
3/16" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

GENERAL NOTES

A. EQUIPMENT SHALL COMPLY WITH ASHRAE STANDARDS.

B. ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, LAWS, ACTS, AND AUTHORITIES HAVING JURISDICTION.

C. THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE INDUSTRY STANDARD OF GOOD PRACTICE AND SAFETY, AND THE MANUFACTURER'S STRICTEST RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND INSTALLATION.

D. ALL WORK SHALL BE LOCATED TO PROVIDE ADEQUATE CLEARANCE FOR ARCHITECTURAL DESIGN AND PROPER OPERATION AND SERVICE OF EQUIPMENT.

E. ALL WORK SHALL BE LOCATED TO AVOID CONFLICTS WITH OTHER TRADES. CLOSELY COORDINATE ALL WORK WITH ALL OTHER TRADES. FAILURE OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES SHALL RELIEVE THE OWNER/ENGINEER FROM ANY ADDED COSTS.

(#) KEYNOTES

1. ROOFTOP EXHAUST FAN INSTALLED ON FACTORY CURB ON ROOF.
2. SATELLITE DISH SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR INFO.
3. VTR'S SHOWN FOR REFERENCE ONLY, REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION. PROVIDE MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES ON HVAC UNITS.
4. CONDENSING UNIT FOR REFRIGERATION EQUIPMENT BY VENDOR SHOWN FOR REFERENCE ONLY. INSTALLATION TO COMPLY WITH MFR'S AND LOCAL AHJ REQUIREMENTS.
5. PIPE PORTAL FOR REFRIGERANT PIPING, ELECTRICAL CONDUIT AND/OR CONDENSATE LINE AS REQUIRED, REFER TO REFRIGERANT LINE GOOSENECK DETAIL.
6. ROOFTOP HVAC UNIT INSTALLED ON FACTORY CURB ON ROOF.
7. PROVIDE A MINIMUM SEPARATION OF 10'-0" BETWEEN HVAC OUTDOOR AIR INTAKES AND EXHAUST OR RELIEF OUTLETS.
8. ROOF ACCESS SHOWN FOR REFERENCE ONLY, REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
9. ROUTE RTU CONDENSATE TO AN AHJ-APPROVED LOCATION. PROVIDE CONDENSATE PIPING IN ACCORDANCE WITH IMC §307 AND IPC REQUIREMENTS. PIPING SHALL BE ASTM A53 SCHEDULE 40 GALVANIZED STEEL OR APPROVED EQUIVALENT, SLOPED TO DRAIN, AND TERMINATED AT AN APPROVED INDIRECT WASTE RECEPTOR OR OTHER APPROVED LOCATION.
10. ROOF HOSE BIB REFERENCE PLUMBING SHEETS.

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PROFESSIONAL SEAL

NORTH CAROLINA PROFESSIONAL 053741 ENGINEER RYAN E. WATERS
07/28/2026
COA:P-1359

PROFESSIONAL IN CHARGE
R. WATERS - PE

PROJECT MANAGER
AR

QUALITY CONTROL
RW

DRAWN BY
RR

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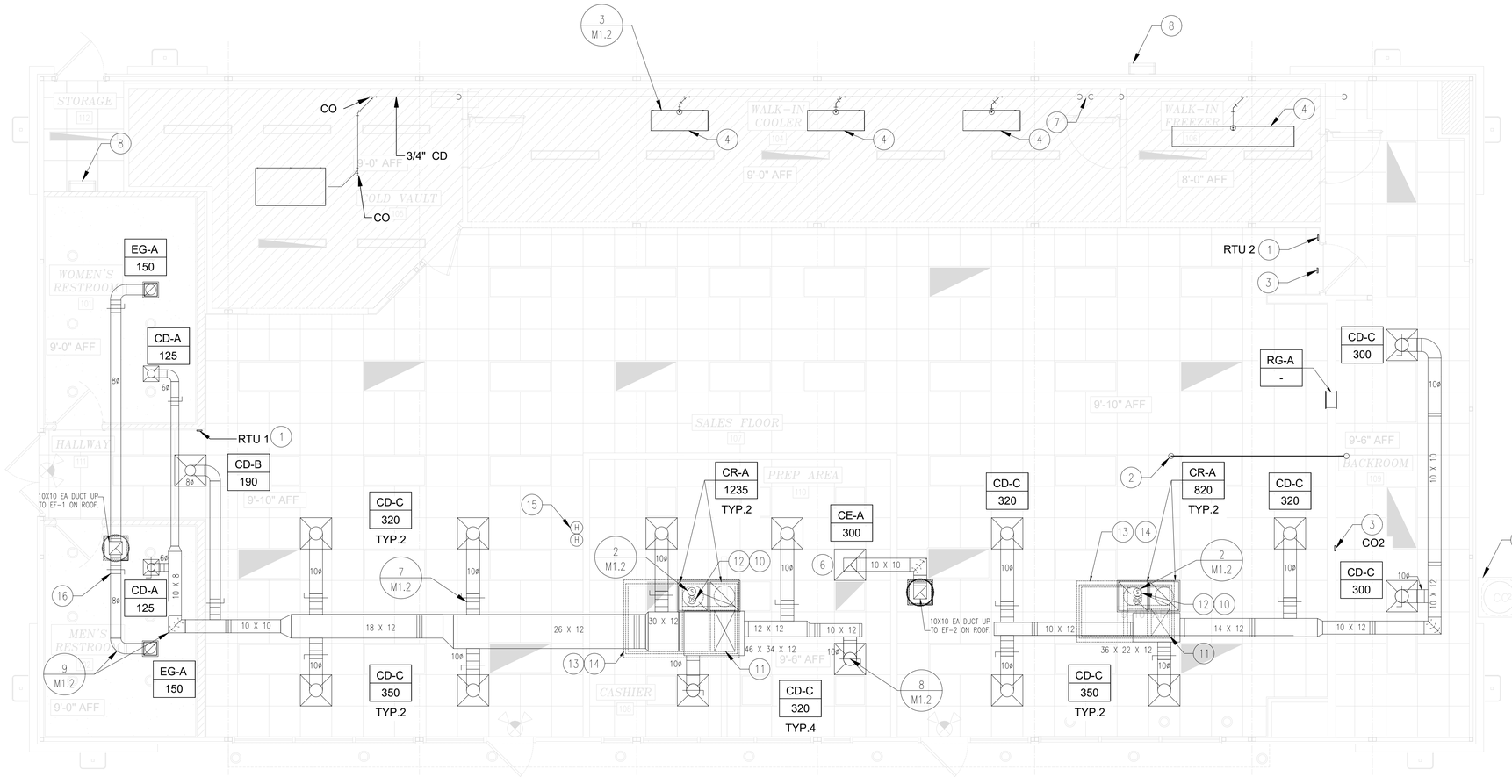
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PROJECT NUMBER
20260936.0

SHEET TITLE
MECHANICAL - ROOF PLAN

SHEET NUMBER
M1.1.1

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MECHANICAL FLOOR PLAN | 1
1/4" = 1'-0"

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

GENERAL NOTES

A. EQUIPMENT SHALL COMPLY WITH ASHRAE STANDARDS.

B. ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, LAWS, ACTS, AND AUTHORITIES HAVING JURISDICTION.

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D. ALL WORK SHALL BE LOCATED TO PROVIDE ADEQUATE CLEARANCE FOR ARCHITECTURAL DESIGN AND PROPER OPERATION AND SERVICE OF EQUIPMENT.

E. ALL WORK SHALL BE LOCATED TO AVOID CONFLICTS WITH OTHER TRADES. CLOSELY COORDINATE ALL WORK WITH ALL OTHER TRADES. FAILURE OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES SHALL RELIEVE THE OWNER/ENGINEER FROM ANY ADDED COSTS.

(#) KEYNOTES

1. PROGRAMMABLE THERMOSTAT WITH REMOTE SUPPLY AIR TEMPERATURE SENSORS AND LOCAL SPACE TEMPERATURE AND HUMIDITY SENSORS (IF APPLICABLE). REF ENERGY MANAGEMENT SYSTEM DRAWING.
2. MECHANICAL CONTRACTOR SHALL INSTALL A 6" DIAMETER PVC PIPE, SCHEDULE 40, FROM TOP OF SLAB, DOWN BELOW SLAB, OVER TO DELI CASE AND TERMINATE AT SLAB WITH PULL STRING AS SHOWN. THE REFRIGERANT PIPING WILL BE INSTALLED IN THIS PIPE CONTRACTOR SHALL PROVIDE LONG RADIUS TYPE SWEEP ELBOWS AS REQUIRED. MECHANICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR THE TIMING OF THIS INSTALLATION. PIPING SHALL BE CAPPED AT OPEN ENDS AS SOON AS IT IS INSTALLED TO PREVENT DIRT, DEBRIS, AND WATER FROM COLLECTING INSIDE OF PIPE. COORDINATE TERMINATION POINT AT SLAB WITH DELI CASE INSTALLATION INSTRUCTIONS. MECHANICAL CONTRACTOR SHALL COORDINATE ELEVATION OF PIPE BELOW SLAB WITH PLUMBING UTILITIES.
3. REFER TO SHEET M1.5 FOR DETAIL OF BEVERAGE CO2 DETECTION AND ALARM SYSTEM.
4. PROVIDE COPPER DRAIN LINES FROM COOLER/FREEZER EVAPORATORS. VERIFY LOCATIONS WITH REFRIGERATION PLANS (EVAPORATORS PROVIDED BY CK/OTHERS). DRAIN LINES IN FREEZER SHALL HAVE HEAT TRACE AND INSULATION. HEAT TRACE SHALL BE SELF REGULATING 120V, 5 W/FT RAY-CHEM XL-TRACE OR EQUIVALENT. REFER TO REFRIGERATION FOR POWER SUPPLY.
5. CO2 TANK LOUVRED CABINET. SEE SHEET M1.4 FOR DETAIL.
6. INSTALL EXHAUST FAN THERMOSTAT REMOTE SENSOR IN EXHAUST GRILLE. REFER TO FAN SCHEDULE NOTES.
7. PROVIDE RUNNING TRAP IN COOLER.
8. ROOF ACCESS. REFER TO ARCH DRAWINGS.
9. 1 1/2" COPPER CONDENSATE DRAIN DOWN. TERMINATE AT MOP SINK WITH AIR GAP.
10. REMOTE TEMPERATURE SENSOR IN RETURN AIR DUCT.
11. FULL SIZE SUPPLY & RETURN AIR DUCTS DOWN THRU ROOF FROM ROOFTOP PACKAGE UNIT.
12. SMOKE DETECTOR FOR UNIT SHUT-DOWN TO BE FACTORY INSTALLED BY MANUFACTURER.
13. ROUTE ALL DUCTWORK WITHIN THE JOISTS UNLESS OTHERWISE SPECIFIED (TYPICAL).
14. HUMIDITY SENSORS FURNISHED WITH RTUS. REF ENERGY MANAGEMENT SYSTEM DRAWING FOR WIRING AND FINAL CONNECTION REQUIREMENTS. COORDINATE FINAL LOCATION WITH OWNER.
15. MOUNT HUMIDISTATS AT 48" ABOVE FINISHED FLOOR, MEASURED TO THE CENTERLINE OF THE DEVICE. LOCATE ON AN INTERIOR WALL IN A REPRESENTATIVE AREA OF THE SERVED ZONE, AWAY FROM DIFFUSERS, DOORS, WINDOWS, HEAT- OR MOISTURE-GENERATING EQUIPMENT, AND DIRECT SUNLIGHT.
16. PROVIDE CABLE-OPERATED DAMPERS FOR ALL DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS. ROUTE AND TERMINATE THE CABLE AT AN ACCESSIBLE LOCATION, AND IDENTIFY EACH DAMPER FOR OPERATION AND MAINTENANCE.

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07/28/2026
COA:P-1359

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QUALITY CONTROL
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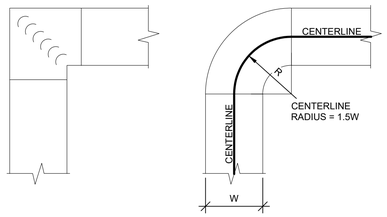
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FMS MODEL NUMBER
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PROJECT NUMBER
20260936.0

SHEET TITLE
MECHANICAL - FLOOR PLAN

SHEET NUMBER
M1.1

Drawing Name: \\greenbergfarrow.com\Project\Files\Projects\2026\20260936.0\05 MEP Construction Documents\G25B6 Circle K\3. Drawings\NC Mech\M1.1.dwg Last Modified: Jul 27, 2026 - 5:20pm Plotted on: Jul 27, 2026 - 5:33pm by sandaso

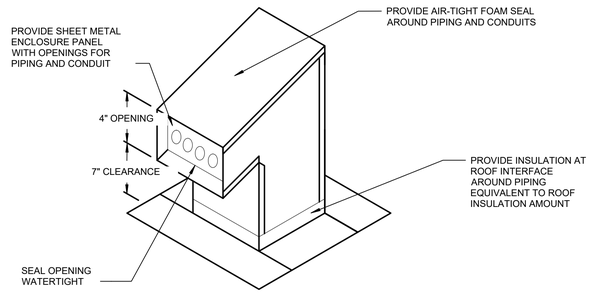


MITERED ELBOW WITH TURNING VANES

RADIUS ELBOW

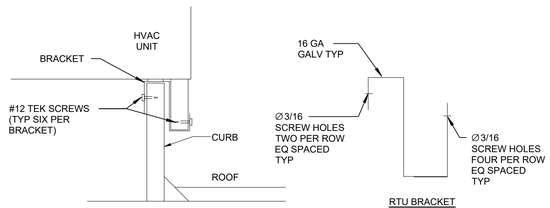
NOTE: RADIUS ELBOWS WITH MITERED THROAT ARE NOT ALLOWED

TYPICAL ELBOWS DEATIL | 9
N.T.S.

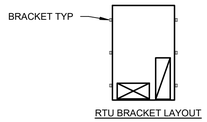


PROVIDE MIAMI TECH #LJ10 OR EQUAL

REFRIGERANT LINE GOOSENECK DETAIL | 6
N.T.S.



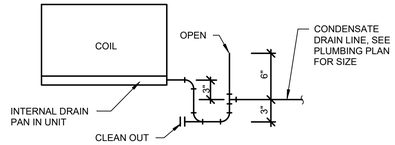
BRACKET ATTACHMENT



RTU BRACKET LAYOUT

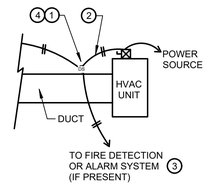
BRACKETS ARE FURNISHED WITH RTU. BRACKET CONSTRUCTION, QUANTITIES, AND SPACING SHOWN ON THIS DETAIL IS FOR GENERAL COORDINATION ONLY. INSTALL BRACKETS ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE FINAL BRACKET LOCATIONS WITH EQUIPMENT. DO NOT OBSTRUCT OPENINGS OR UTILITY CONNECTIONS.

RTU ANCHOR BRACKET DETAIL | 5
N.T.S.



NOTES:
1. CONDENSATE DRAIN LINES SHALL BE GRADED CONTINUOUSLY AND UNIFORMLY TO POINT OF DISCHARGE. MINIMUM OF 1/8" PER FOOT.
2. CONDENSATE DRAIN LINES SHALL BE TYPE "M" HARD DRAWN COPPER TUBING ASTM B-88, UNO.
3. GENERAL CONTRACTOR TO SUPPLY AND INSTALL ALL CONDENSATE DRAINS PER MANUFACTURER'S RECOMMENDATIONS.
4. INSULATE PRIMARY COIL CONDENSATE INSIDE BUILDING IN ACCORDANCE WITH SHEET SPECIFICATIONS

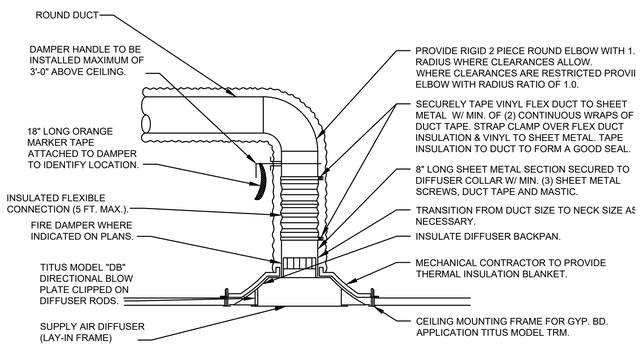
CONDENSATE DRAIN TRAP DETAIL | 3
N.T.S.



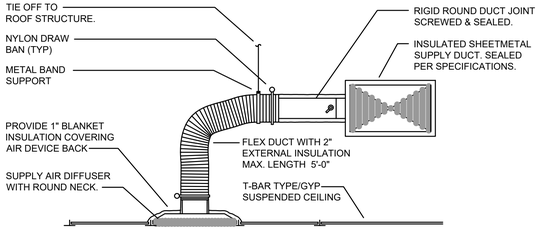
NOTES:

1. "LOW FLOW" TYPE DUCT SMOKE DETECTOR MOUNTED ON THE RETURN AIR DUCT WHERE SHOWN. FURNISHED, INSTALLED, AND CONTROL WIRING BY MECHANICAL CONTRACTOR UNLESS FACTORY INSTALLED IN RTU. POWER WIRING BY ELECTRICAL/FIRE ALARM CONTRACTOR. SEE PLANS FOR ALL LOCATIONS. PROVIDE REMOTE VISIBLE AND AN AUDIBLE SIGNAL ALONG WITH LED BELOW CEILING AS REQUIRED PER THE APPLICABLE MECHANICAL CODES AND NFPA.
2. MECHANICAL CONTRACTOR SHALL FURNISH, INSTALL, AND PROVIDE WIRING TO HVAC UNIT TO SHUT DOWN UNIT UPON DETECTION OF SMOKE UNLESS FACTORY INSTALLED IN RTU. MECHANICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY RELAYS, CONTRACTORS, POWER MODULES, ETC. AS NECESSARY TO PROVIDE A COMPLETE OPERATIONAL SYSTEM. COORDINATE WITH ELECTRICAL/FIRE ALARM CONTRACTOR TO VERIFY VOLTAGE REQUIREMENTS, LOCATIONS, ETC.
3. ELECTRICAL/FIRE ALARM CONTRACTOR SHALL PROVIDE WIRING IF FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, THE SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS. IF ALARM SYSTEM IS NOT PRESENT, ACTUATION OF A SMOKE DETECTOR SHALL ACTIVATE A VISIBLE AND AUDIBLE SIGNAL. MECHANICAL CONTRACTOR SHALL FURNISH, INSTALL, AND PROVIDE WIRING TO MULTI-SIGNALING ACCESSORY (SYSTEM SENSOR RTS2 OR EQUIVALENT) TO BE LOCATED ADJACENT TO THERMOSTAT AND COORDINATED WITH CIRCLE K CONSTRUCTION MANAGER.
4. SMOKE DETECTORS REQUIRED BY THE APPLICABLE MECHANICAL CODES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72. DUCT SMOKE DETECTORS REQUIRE A REMOTE LED INDICATOR THRU THE CEILING LEVEL. NFPA 72 3-8.3. DUCT SMOKE DETECTORS SHALL ACTIVATE A VISIBLE AND AUDIBLE SIGNAL AT A NORMALLY OCCUPIED LOCATION AND SHALL BE MONITORED BY THE FACP AND REPORT AS A SUPERVISORY SIGNAL PER NFPA 72 AND THE APPLICABLE MECHANICAL CODES. DUCT SMOKE DETECTORS TO PROVIDE SHUTDOWN IN 30 SECONDS OR LESS.

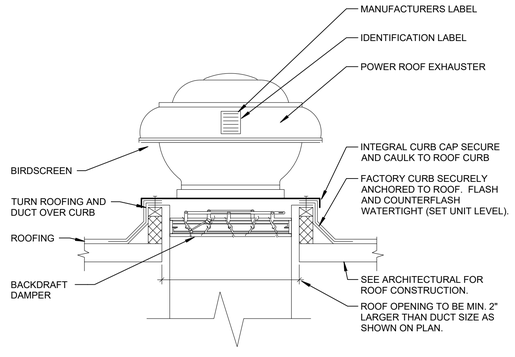
DUCT SMOKE DETECTOR CONNECTION DETAIL | 2
N.T.S.



TYPICAL DIFFUSER DETAIL 2 | 8
N.T.S.

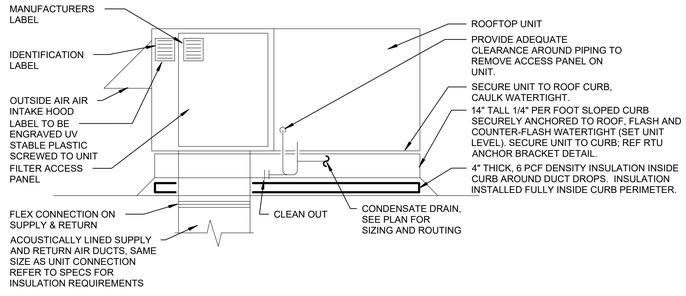


TYPICAL DIFFUSER DETAIL | 7
N.T.S.



NOTE: INSTALL EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS

POWER ROOF EXHAUSTER DETAIL | 4
N.T.S.



ROOF-TOP PACKAGE UNIT DETAIL | 1
N.T.S.

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Approval Limited to Factory Built Portion Only
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PROJECT TEAM

ARCHITECTURAL/STRUCTURAL
FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
07/27/26	PERMIT SET

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07/28/2026
COA:P-1359

PROFESSIONAL IN CHARGE
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CIRCLE K STORES INC.
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FMS JOB NUMBER
G25B6

FMS MODEL NUMBER
XXXXXX

PROJECT NUMBER
20260936.0

SHEET TITLE
MECHANICAL - DETAILS

SHEET NUMBER
M1.2

Drawing Name: \\greenbergfarrow.com\Projects\Projects\2026\20260936\500_MEP Construction Documents\G25B6 Circle K\3_Drawings\MC Mech\M1.2.dwg Last Modified: Jul 27, 2026 - 5:19pm Plotted on: Jul 27, 2026 - 5:24pm by sandiano

OUTSIDE AIR CALCULATION

OUTSIDE AIR REQUIREMENTS PER 2018 NORTH CAROLINA MECHANICAL CODE

NAME	AREA	# PEOPLE/ 1000 FT²	IMC CLASSIFICATION	NUMBER OF PEOPLE	OUTDOOR AIR PER PERSON	OUTDOOR AIR PER AREA	PEOPLE LOAD REQUIRED (PLR) OSA	BUILDING LOAD REQUIRED (BLR) OSA	SYSTEM EFFICENCY VALUE	TOTAL OSA REQUIRED [(PLR+BLR)/SYSTEM EFFICENCY]
CASHIER	174 SF	8	SUPERMARKET	2	7.5 CFM	0.06 CFM/SF	15 CFM	11 CFM	0.8	32 CFM
HALLWAY	56 SF	-	PUBLIC CORRIDOR	-	-	0.06 CFM/SF	0 CFM	4 CFM	0.8	4 CFM
MEN'S RESTROOM	129 SF	-	PUBLIC TOILET ROOM	-	-	-	-	-	-	-
SALES FLOOR-1	892 SF	8	SUPERMARKET	18	7.5 CFM	0.06 CFM/SF	135 CFM	54 CFM	0.8	236 CFM
WOMEN'S RESTROOM	132 SF	-	PUBLIC TOILET ROOM	-	-	-	-	-	-	-
BACK ROOM	338 SF	2	OCCUPIABLE DRY STORAGE	1	5.0 CFM	0.06 CFM/SF	5 CFM	21 CFM	0.8	32 CFM
PREP AREA	204 SF	20	KITCHEN (COOKING)	5	7.5 CFM	0.12 CFM/SF	38 CFM	25 CFM	0.8	78 CFM
SALES FLOOR-2	933 SF	8	SUPERMARKET	19	7.5 CFM	0.06 CFM/SF	143 CFM	56 CFM	0.8	248 CFM
TOTALS	2858 SF			45			335 CFM	168 CFM		630 CFM

AIR BALANCE SCHEDULE

MARK	O.A.	E.A.	PRESSURE
EF-1	0	300 CFM	-300 CFM
EF-2	0	300 CFM	-300 CFM
RTU-1	300	0 CFM	300 CFM
RTU-2	400	0 CFM	400 CFM
TOTAL EXHAUST	700	600 CFM	100 CFM

2018 NC ENERGY CONSERVATION CODE LOAD SUMMARY

AREA	COOLING LOAD CALCULATION (MBH)		PROVIDED EQUIPMENT COOLING CAPACITY (MBH)	
	SENSIBLE	TOTAL	SENSIBLE	TOTAL
RTU-1	44.7	68.8	46.2	62.0
RTU-2	60.6	93.2	74.1	100.3

NOTES:
1. HEATING AND COOLING LOAD CALCULATIONS WERE PERFORMED USING CARRIER HAP SOFTWARE IN ACCORDANCE WITH ASHRAE FUNDAMENTALS AND THE 2018 NORTH CAROLINA ENERGY CONSERVATION CODE.
2. EQUIPMENT SIZING MEETS THE APPLICABLE ENERGY CONSERVATION CODE REQUIREMENTS
3. ALL MECHANICAL AIR CONDITIONING EQUIPMENT TO HAVE MINIMUM EFFICIENCY RATING PER THE APLICABLE ENERGY CONSERVATION CODE.

ROOFTOP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SUPPLY FAN CFM	SUPPLY FAN ESP (IN.)	SUPPLY FAN HP	GROSS COOLING CAP COOLING CAPACITY	OUTSIDE AIR CFM	EER (EER2)	IEER (SEER2)	WEIGHT (lb)	ELECTRICAL DATA VOLTS	PH	HZ	MCA	MOCP	ELEC HEAT KW	ELEC HEAT MODEL
RTU-1	CARRIER	50FE-B06B2A5-0F0A0	1,940	0.8	1.44	5.0 ton	300	(11.4)	(13.4)	764	208	3	60 Hz	69	70	15.8	CRHEATER331A00
RTU-2	CARRIER	50FE-N09B2A5-0F0A0	2,870	0.8	2.40	8.5 ton	400	11.4	15.2	1172	208	3	60 Hz	92	100	24.0	CRHEATER415A00

NOTES:
1. SIZE ALL UNITS ON SUMMER AMBIENT TEMPERATURE: 95° F.
2. VERIFY VOLTAGE/PHASE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
3. COOLING CAPACITY, MINIMUM HEAT CAPACITY AND CFM ARE MINIMUM OUTPUT REQUIRED. ALL UNITS SHALL HAVE NO LESS THAN 98% OF THESE CAPACITIES. COOLING CAPACITY IS GROSS COIL CAPACITY REQUIRED (FAN HEAT NOT DEDUCTED).
4. UNITS TO BE FURNISHED WITH FACTORY INSTALLED RETURN AIR SMOKE DETECTORS.
5. 14" TALL ROOF MOUNTING CURB SUPPLIED BY RTU MANUFACTURER, SLOPED 1/4" PER FOOT FOR LEVEL RTU SURFACE. SEISMIC/WIND RESTRAINT BRACKETS PROVIDED BY RTU MANUFACTURER.
6. PROGRAMMABLE THERMOSTAT WITH REMOTE SENSORS FOR SUPPLY AND LOCAL SPACE TEMPERATURE/HUMIDITY SENSORS (IF APPLICABLE) FOR RTU1 AND RTU2 BY EMS SUPPLIER.
7. PROVIDE FACTORY INSTALLED ECONOMIZER WITH ENTHALPY SENSOR AND CONTROL ACCESSORIES.
8. PROVIDE RTU1 & RTU2 WITH ELECTRIC HEATER.
9. PROVIDE WITH HAIL GUARDS.
10. PROVIDE FACTORY INSTALLED DISCONNECT.
11. PROVIDE WITH UNPOWERED GFCI CONVENIENCE OUTLET.
12. PROVIDE COIL COATING.
13. PROVIDE HUMIDI-MIZER HOT GAS REHEAT COIL OPTION.
14. PROVIDE CONDENSATE OVERFLOW SHUTDOWN SWITCH.
15. REFRIGERANT R-454B.

AIR DEVICE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	FRAME	RANGE	NECK SIZE	MODULE
CD-A	SA	TITUS	TMSA-AA	GYPSUM	0-130	6"	12X12
CD-B	SA	TITUS	TMSA-AA	LAY-IN	131-250	8"	24X24
CD-C	SA	TITUS	TMSA-AA	LAY-IN	251-385	10"	24X24
CE-A	EA	TITUS	PAR-AA	LAY-IN	0-300	10X10	24X24
EG-A	EA	TITUS	50F	LAY-IN	0-150	8"	12X12
RG-A	TA	TITUS	33RL	SURFACE MOUNT	0-150	12X12	12X12
CR-A	TA	TITUS	PAR-AA	LAY-IN	800-1400	22X22	24X24

NOTE:
1. SA=SUPPLY AIR
2. EA=EXHAUST AIR
3. RA=RETURN AIR
4. TA=TRANSFER AIR
5. NO DESCRIPTION = CONCENTRIC DIFFUSER
   a. SUPPLY AND RETURN CONNECTIONS MATCH NECK SIZE.
6. PROVIDE VOLUME / BALANCE DAMPERS WHERE INDICATED ON DRAWINGS.
   a. ROUND (MANUFACTURER / MODEL): RUSKIN / MDRS25, DAYTON / 2TF (OR EQUIVALENT)
   b. RECTANGULAR (MANUFACTURER / MODEL): RUSKIN / MD25, DAYTON / 22CV (OR EQUIVALENT)
7. PROVIDE DIFFUSER TO DUCT CONNECTION TRANSITION AS REQUIRED.
8. PROVIDE MANUFACTURERS SECTORIZING BAFFLES WHERE INDICATED BY FLOW ARROWS ON PLAN. USE A 4-WAY THROW IF NO THROW ARROWS ARE SHOWN.

EXHAUST FAN SCHEDULE

Mark	AREA SERVED	MANUFACTURER	MODEL	FLOW	ESP	MOTOR POWER	MOTOR VOLTAGE	MOTOR PH	MOTOR HZ	WEIGHT	DRIVE
EF-1	RESTROOMS	GREENHECK	G-090-E	300 CFM	0.20 in-wg	0.040 hp	120 V	1	60 Hz	22.00 lb	DIRECT
EF-2	PREP AREA	GREENHECK	CUE-080-E	300 CFM	0.25 in-wg	0.100 hp	120 V	1	60 Hz	33.00 lb	DIRECT

NOTES:
1. EF 1 SHALL BE PROVIDED WITH BACKDRAFT DAMPER, FACTORY ROOF CURB, AND SPEED CONTROLLER. EF 1 TO RUN CONTINUOUSLY WHILE OCCUPIED.
2. EF 2 SHALL BE PROVIDED WITH BACKDRAFT DAMPER, FACTORY ROOF CURB, AND SPEED CONTROLLER. FAN SHALL BE UL LISTED. INSTALL FAN LEVEL. FAN CONTROLLED FROM LINE VOLTAGE COOLING ONLY THERMOSTAT TEMPRO TP516 OR EQUIVALENT. LOCATE THERMOSTAT REMOTE SENSOR WITHIN CEILING EXHAUST GRILLE. INSTALL THERMOSTAT IN ACCESSIBLE SPACE ON EXHAUST DUCT. SET TO 90°F.

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: **09/16/2026**

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PROJECT TEAM

ARCHITECTURAL/STRUCTURAL
FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
07/27/26	PERMIT SET
09/15/26	DEVIATION COMMENTS

PROFESSIONAL SEAL

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COA:P-1359

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G25B6

TN PLAN NUMBER
XXXXXX

PROJECT NUMBER
20260065.0

SHEET TITLE
MECHANICAL - SCHEDULES

SHEET NUMBER
M1.2.2

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ABBREVIATIONS

ABBR	DESCRIPTION
AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AL	ACOUSTICAL LINING
AMP	AMPERE (AMPS)
AP	ACCESS PANEL
BF	BELOW FLOOR
BHP	BRAKE HORSE POWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BD	BACKDRAFT DAMPER
C	CELSIUS
CI	CAST IRON
CFM	CUBIC FEET PER MINUTE
CO	CLEANOUT
CONT.	CONTINUATION
D	DRAIN
Db	DECIBEL
DB	DRY BULB
DBT	DRY BULB TEMPERATURE
DIA.	DIAMETER
DX	DIRECT EXPANSION
EFF	EFFICIENCY
ENT	ENTERING
EXH	EXHAUST
EMS	ENERGY MANAGEMENT SYSTEM
°F	DEGREES FAHRENHEIT
FB	FLAT BOTTOM
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FD	FIRE DAMPER
F.G.	FILTER GAUGE
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
FT	FLAT TOP
FT.	FEET
FSD	FIRE/SMOKE DAMPER
GA	GAUGE
GAL	GALLONS
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
HB	HOSE BIBB
HD	HAND DAMPER (VOLUME DAMPER)
HORZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR(S)
IN	INCHES
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LBS	POUNDS
MAX	MAXIMUM
MA	MAIN AIR (CONTROLS)
MCC	MOTOR CONTROL CENTER
MIN	MINIMUM
N/A	NOT APPLICABLE
NC.	NOISE CRITERIA
NIC	NOT IN CONTRACT
#,NO.	NUMBER (QUANTITY)
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PD	PRESSURE DROP
QTY	QUANTITY
QUAD	QUADRANT
RA	RETURN AIR
REQ	REQUIRED
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SCD	SMOKE CONTROL DAMPER
S.DPR.	SMOKE DAMPER
SP	STATIC PRESSURE (INCHES OF WATER)
SPEC	SPECIFICATION
SQ	SQUARE
SDVV	SINGLE DUCT VARIABLE VOLUME
ST	SOUND TRAP
TEMP	TEMPERATURE
TSTAT	THERMOSTAT
TP	TOTAL PRESSURE (INCHES OF WATER)
TYP	TYPICAL
UC	UNDERCUT
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VAC	VOLTS, ALTERNATING CURRENT
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VERT	VERTICAL
VTR	VENT THRU ROOF
WB	WET BULB
WCO	WALL CLEANOUT

ABBREVIATIONS

ABBR	DESCRIPTION
WH	WALL HYDRANT
Z	ZONE

PIPING FLOWSTREAM ID

SYMBOL	DESCRIPTION
D	DRAIN LINE
CD	CONDENSATE DRAIN
SCD	SECONDARY CONDENSATE DRAIN

PIPE FITTING SYMBOLS

SYMBOL	DESCRIPTION
	ANCHOR
	ANCHOR, WALL
	BLIND FLANGE
	DROP AT END
	DROP AT MID
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	TEE CONNECTION
	CAPPED OUTLET
	PIPE CAP
	RISE IN PIPE
	PIPE GUIDES
	PIPE PLUG
	FLEX CONNECTION
	FLEX PIPE
	PRESSURE GAGE W/O COCK
	PRESSURE GAUGE W/ COCK
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	STRAINER
	STRAINER, FLANGED
	SWITCH, FLOW
	SWITCH, PRESSURE
	SWITCH, TEMPERATURE
	TEST & PRESSURE (T&P) FITTING
	THERMOMETER
	UNION
	ORIFICE UNION
	FLANGED UNION
DN	SLOPE IN DIRECTION SHOWN (DOWN)
	DIRECTION OF FLOW
	NEW PIPING
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED
	NEW PIPE CONNECTION TO EXISTING PIPING
	POINT OF NEW CONNECTION TO EXISTING

ANNOTATION SYMBOLS

SYMBOL	DESCRIPTION
?	KEYED NOTE
XXX	ROOM NUMBER
*	SYMBOL INDICATES NEW EQUIPMENT NUMBER REFERS TO SPECIFIC EQUIPMENT OUTSIDE AIR CFM REQUIRED
XX XX	HEX SYMBOL INDICATES NEW EQUIPMENT NUMBER REFERS TO SPECIFIC EQUIPMENT IDENTIFIED IN EQUIPMENT SCHEDULE
X	REVISION TRIANGLE REVISION NUMBER
-	DETAIL NUMBER DETAIL SYMBOL DRAWING WHERE DETAIL APPEARS
X	SECTION LETTER SECTION CUT SYMBOL
X XXX	SECTION LETTER SECTION CUT SYMBOL DRAWING WHERE SECTION APPEARS
	NORTH ARROW
	POINT OF NEW CONNECTION TO EXISTING
	FLOW ARROWS
V12	OVAL SYMBOL INDICATES A CONTROL VALVE V-NUMBER REFERS TO A SPECIFIC VALVE IDENTIFIED IN THE CONTROL VALVE SCHEDULE

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
12x8	RECTANGULAR DUCT, WIDTH x DEPTH (INCHES)
12Ø	ROUND DUCT (INCHES)
12x8Ø	OVAL DUCT (INCHES)
	FLEXIBLE DUCT
12x8 W/1"AL	ACOUSTICAL DUCT LINING
	FLEXIBLE CONNECTION
	SUPPLY DUCT - SECTION/ END VIEW
	RETURN DUCT - SECTION/ END VIEW
	EXHAUST DUCT - SECTION/ END VIEW
	CROSS SECTION THROUGH ROUND DUCT
	VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EXCEPT TRANSFER AIR SOUND ELBOW) LARGE RADIUS ELBOW
	SMALL RADIUS ELBOW
	RETURN AIR CEILING GRILLE AND RETURN AIR CEILING GRILLE WITH SOUND BOOT
	CEILING DIFFUSERS (ARROWS DENOTE THROW PATTERN IF THROW IS SOMETHING OTHER THAN 4-WAY)
	EXHAUST CEILING REGISTER OR GRILLE
	LINEAR DIFFUSER
	ROUND DIFFUSER
	SIDEWALL EXHAUST OR RETURN AIR GRILLE
	SIDEWALL SUPPLY REGISTER
	DIFFUSER UNDER DUCT
U	POINT OF NEW CONNECTION TO EXISTING
T	ROOM THERMOSTAT
S	ROOM TEMPERATURE SENSOR
H	HUMIDISTAT
DS	DUCT SMOKE DETECTOR (DS)
	ACCESS DOOR
	MANUAL VOLUME DAMPER (VD)
	FIRE DAMPER (FD) THROUGH WALL/ FLOOR
	FIRE/SMOKE DAMPER (FSD) THROUGH WALL/ FLOOR
M	MOTOR OPERATED DAMPER
	CONNECT NEW DUCT TO EXISTING DUCT
	EXISTING DUCT
	EXISTING DUCT TO BE REMOVED
	30° RISE(R)/DROP(D) IN DUCTWORK IN DIRECTION OF ARROW
	CONCENTRIC DUCT REDUCER
	ECCENTRIC DUCT REDUCER
	DUCT TRANSITION FROM RECTANGULAR TO ROUND
	CONICAL TAP FITTING
	SHOE TAP FITTING
	DUCT OVER/UNDER ANOTHER DUCT

SINGLE LINE DUCTWORK

SYMBOL	DESCRIPTION
N	NEW
E	EXISTING
R	RELOCATED
	NEW/RELOCATED SUPPLY DIFFUSER, NECK SIZE, AND BALANCE AIR AS INDICATED (MATCH EXISTING)
	NEW/RELOCATED RETURN GRILLE WITH BOOT (MATCH EXISTING)
	EXISTING SUPPLY DIFFUSER
	EXISTING RETURN GRILLE WITH BOOT
	RELOCATED EXISTING GRILLE OR DIFFUSER
T^R	RELOCATED ROOM THERMOSTAT, ELECTRIC
T^E	EXISTING ROOM THERMOSTAT, ELECTRIC
	1-1/2 X BRANCH DUCT FROM SIDE OF MAIN
	SQUARE ELBOW WITH TURNING VANES
	RADIUS TYPE 90° ELBOW
	DUCT TRANSITION
	ACCESS PANEL (AP)
	EXISTING DUCTWORK
	EXISTING DUCT TO BE REMOVED
	FLEXIBLE DUCT

AIR TERMINAL SYMBOLS

SYMBOL	DESCRIPTION
A CFM TYP #	MARK (AS SHOWN ON SCHEDULE) CFM TYPICAL OF NUMBER SHOWN ON SYSTEM, OR INSTALL NOTE.
X A SA / RA TYP #	MARK (AS SHOWN ON SCHEDULE) NECK SIZE (Ø DIA. OR H" x W" RECTANG.) CFM, SUPPLY AIR / RETURN AIR TYPICAL OF NUMBER SHOWN ON SYSTEM, OR INSTALL NOTE.

GENERAL NOTES

A. ALL MECHANICAL EQUIPMENT SHALL BEAR THE U.L. LABEL.

B. ALL EQUIPMENT IS TO BE STARTED UP AND RUN IN SHOP BEFORE BUILDING SHIPMENT.

C. HVAC EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH APPLICABLE MECHANICAL CODE.

D. HVAC DUCTING MATERIAL IS TO BE GALVANIZED METAL OR INSULATED FLEX DUCT WITH A FLAME SPREAD INDEX NOT TO EXCEED 25 AND A SMOKE DEVELOPED INDEX OF NOT OVER 50.

E. ALL SUPPLY DIFFUSERS SHALL HAVE VOLUME DAMPERS.

F. ALL SUPPLY AND RETURN GRILLES SHALL BE WHITE.

G. ALL DUCT TAPE MUST CONFORM TO UL 181.

H. ALL SUPPLY DIFFUSER SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE ON PLAN.

I. ALL DUCTWORK SHALL BE PROPERLY SEALED AND INSULATED PER THE LATEST EDITION CODES AND STANDARDS TO PREVENT DUCTWORK FROM SWEATING.

CODE INFORMATION

2018 NORTH CAROLINA BUILDING CODE (NCBC), 2018 NORTH CAROLINA MECHANICAL CODE (NCMC), 2018 NORTH CAROLINA ENERGY CONSERVATION CODE (NCECC), 2018 NORTH CAROLINA PLUMBING CODE (NCPC), AND THE NORTH CAROLINA ELECTRICAL CODE (2020 NEC WITH NORTH CAROLINA AMENDMENTS).

ALL SYSTEMS SHALL BE IN COMPLIANCE WITH THE ABOVE CODES AS ADOPTED BY THE CITY OF ERWIN, NORTH CAROLINA.

OUTDOOR AIR VENTILATION PROVIDED AND BASED ON CHAPTER 4, SECTION 403 AND TABLE 403.3.

SEE SHEET M1.2.2 FOR VENTILATION CALCULATIONS.

ALL ROOFTOP EQUIPMENT SHALL BE PERMANENTLY IDENTIFIED AS TO THE AREA SERVED WITH A RUST-PROOF METAL NAMEPLATE.

DUCT SMOKE DETECTORS REQUIRED SHALL BE INSTALLED IN THE RETURN DUCTWORK AS SHOWN ON THE PLANS. IF A FIRE ALARM SYSTEM IS AVAILABLE, THAT THE DUCT SMOKE DETECTOR(S) SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM AND IF A FIRE ALARM SYSTEM IS NOT AVAILABLE, PROVIDE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY SUPERVISED LOCATION TRIGGERED BY THE ACTIVATION OF A DUCT SMOKE DETECTOR. INCLUDE THE AIR DUCT DETECTOR TROUBLE INDICATOR (LED AT THE CEILING BELOW THE DUCT DETECTOR) AS REQUIRED.

EQUIPMENT AND APPLIANCES SHALL BE INSTALLED AS REQUIRED BY THE TERMS OF THEIR APPROVAL, IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING, THE MANUFACTURERS INSTALLATION INSTRUCTIONS AND THIS CODE. MANUFACTURERS INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION.

SEE ARCHITECTURAL DRAWINGS FOR ROOF ACCESS DETAILS.

SYMBOLS LIST NOTES

1. SYMBOLS LISTS, NOTES, ABBREVIATIONS, ETC. ARE FOR GENERAL REFERENCE ONLY. THE PRESENCE OF SYMBOLS, NOTES, ABBREVIATIONS, ETC. DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWINGS FOR SPECIFIC SYMBOLS, NOTES, ABBREVIATIONS, ETC. USED.

VENTILATION VERIFICATION

AN AIR BALANCE REPORT SHOWING FRESH AIR COMPLIANCE IS REQUIRED BY THE MECHANICAL INSPECTOR FOR FINAL INSPECTION APPROVAL. VENTILATION SYSTEMS SHALL BE BALANCED BY AN APPROVED METHOD. A BALANCE REPORT SHALL VERIFY THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING AIRFLOW RATES REQUIRED BY THE APPLICABLE CODE.

2018 NCECC COMPLIANCE NOTES

A. DESIGN HEATING AND COOLING LOADS HAVE BEEN CALCULATED USING CARRIER HAP IN ACCORDANCE WITH ASHRAE FUNDAMENTALS AND THE 2018 NORTH CAROLINA ENERGY CONSERVATION CODE.

B. ALL EQUIPMENT AND SYSTEMS HAVE BEEN SIZED TO BE NO GREATER THAN NEEDED TO MEET CALCULATED LOADS.

C. HUMIDIFICATION SYSTEMS HAVE NOT BEEN PROVIDED ON THIS PROJECT.

D. EACH HEATING OR COOLING SYSTEM ZONE HAS BEEN PROVIDED WITH ITS OWN TEMPERATURE CONTROL DEVICE.

E. THE PROGRAMMABLE THERMOSTATS SHALL BE CAPABLE OF SETTING BACK TEMPERATURE TO 55 DEGREES F DURING HEATING AND SETTING UP TO 85 DEGREES F DURING COOLING, CAPABLE OF AUTOMATICALLY SETTING BACK OR SHUTTING DOWN SYSTEMS DURING UNOCCUPIED HOURS USING 7-DIFFERENT DAY SCHEDULES, HAVE A ACCESSIBLE MANUAL 2-HOUR OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS, HAVE A BATTERY BACK-UP CAPABLE OF MAINTAINING PROGRAMMED SETTINGS FOR AT LEAST 10 HOURS WITHOUT POWER. A SETBACK OR SHUTOFF CONTROL IS NOT REQUIRED ON THERMOSTATS THAT CONTROL SYSTEMS SERVING AREAS THAT OPERATE CONTINUOUSLY SUCH AS THE ELEVATOR EQUIPMENT ROOM AND ELECTRICAL ROOMS IF APPLICABLE.

F. OUTDOOR-AIR SUPPLY SYSTEMS WITH DESIGN AIRFLOW RATES GREATER THAN 3000 CFM AND ALL EXHAUST SYSTEMS MUST HAVE DAMPERS THAT ARE AUTOMATICALLY CLOSED WHILE EQUIPMENT IS NOT OPERATING IF APPLICABLE.

G. OUTSIDE VENTILATION HAS BEEN DESIGNED IN ACCORDANCE WITH APPLICABLE CODES.

H. DUCT INSULATION SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF THE 2018 NORTH CAROLINA ENERGY CONSERVATION CODE.

I. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS, MECHANICAL FASTENERS WITH SEALS, GASKETS, OR MASTICS, MESH AND MASTIC SEALING SYSTEMS, OR TAPES. TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR UL 181B.

J. MECHANICAL FASTENERS AND SEALS, MASTICS, OR GASKETS MUST BE USED WHEN CONNECTING DUCTS TO FANS AND OTHER AIR DISTRIBUTION EQUIPMENT, INCLUDING MULTIPLE-ZONE TERMINAL UNITS.

K. OPERATOR AND MAINTENANCE DOCUMENTATION MUST BE PROVIDED TO THE OWNER THAT INCLUDES EQUIPMENT INPUT AND OUTPUT CAPACITY AND REQUIRED MAINTENANCE ACTIONS, EQUIPMENT OPERATION AND MAINTENANCE MANUALS, HVAC SYSTEM CONTROL MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD DETERMINED SET POINTS MUST BE PERMANENTLY RECORDED ON THE CONTROL DRAWINGS, AT CONTROL DEVICES, OR, FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

L. EACH SUPPLY AIR OUTLET OR DIFFUSER MUST HAVE ITS OWN BALANCING DEVICE. ACCEPTABLE BALANCING DEVICES INCLUDE ADJUSTABLE DAMPERS LOCATED WITHIN THE DUCTWORK AND SUPPLY AIR DIFFUSERS.

M. WATER-HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF THE APPLICABLE CODE. THE EFFICIENCY SHALL BE VERIFIED THROUGH DATA FURNISHED BY THE MANUFACTURER OR THROUGH CERTIFICATION UNDER AN APPROVED CERTIFICATION PROGRAM.

N. SERVICE WATER-HEATING EQUIPMENT MUST BE PROVIDED WITH CONTROLS THAT ALLOW THE USER TO SET WATER TEMPERATURE TO 100 DEGREES F FOR DWELLING UNITS AND 90 DEGREES F FOR OTHER OCCUPANCIES. CONTROL MUST LIMIT OUTPUT TEMPERATURES OF LAVATORIES IN PUBLIC FACILITY REST ROOMS TO 110 DEGREES F.

O. WATER-HEATING EQUIPMENT NOT PROVIDED WITH INTEGRAL HEAT TRAPS AND SERVING NON-CIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING ASSOCIATED WITH THE EQUIPMENT.

P. FOR AUTOMATIC-CIRCULATING HOT WATER SYSTEMS, PIPING SHALL BE INSULATED WITH 1" OF INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU-IN/(H xFT2x°F). THE FIRST 8'-0" OF PIPING IN NON-CIRCULATING WATER HEATING SYSTEMS SERVED BY EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 1/2" PIPE INSULATION OF MATERIAL HAVING CONDUCTIVITY NOT EXCEEDING 0.27 BTU-IN/(H xFT2x°F).

DUCT SMOKE DETECTOR TESTING

TESTING AND INSPECTION OF SMOKE CONTROL DEVICES

A PRIOR TO TESTING SMOKE CONTROL DEVICES:

1. VERIFY PROPER OPERATION OF EACH EXISTING SMOKE DETECTOR. ACTIVATION TESTING SHALL BE PERFORMED USING "CANNED SMOKE" ACCEPTABLE TO THE AUTHORITIES HAVING JURISDICTION.

2. VERIFY ACTIVATION OF THE EXISTING SMOKE DETECTOR SHUTS DOWN THE APPROPRIATE AIR-MOVING SYSTEM(S). VERIFY ACTIVATION OF THE SMOKE DETECTOR IS SHOWN BY THE FIRE ALARM SYSTEM WHERE MONITORING IS REQUIRED.

B. INSPECTION & TESTING OF SMOKE CONTROL DEVICES:

1. TESTING OF FIRE/SMOKE DAMPERS AND SMOKE DETECTORS SHALL BE ACCOMPANIED BY THE ELECTRICIAN AND/OR THE CONTROLS SYSTEM SUPPLIER. IF THE BUILDING HAS A FIRE ALARM SYSTEM, A REPRESENTATIVE OF THE MANUFACTURER MUST BE PRESENT DURING THE TESTING.

PFS CORPORATION
Approval Limited to Factory Built Portion Only
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Signature: Rahul Bajaj
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PROJECT TEAM

ARCHITECTURAL/STRUCTURAL
FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
07/27/26	PERMIT SET
1 09/15/26	DEVIATION COMMENTS

PROFESSIONAL SEAL

NORTH CAROLINA PROFESSIONAL 053741 ENGINEER RYAN E. WATERS
09/15/2026
COA:P-1359

PROFESSIONAL IN CHARGE
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PROJECT MANAGER
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QUALITY CONTROL
RW

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FMS JOB NUMBER
G25B6

TN PLAN NUMBER
XXXXXX

PROJECT NUMBER
20260065.0

SHEET TITLE
MECHANICAL - NOTES

SHEET NUMBER
M1.2.3

Drawing Name: \\greenbergfarrow.com\Projects\Files\Projects\2026\20260065.000_MEP Construction Documents\02586 Circle K Erwin NC\1 - Drawings\NC Mech\M1.2.3.dwg Last Modified: Sep 15, 2026 - 10:43am Plotted on: Sep 15, 2026 - 10:43am by anders

SECTION	MECHANICAL SPECIFICATIONS
15891 METAL DUCTWORK SYSTEMS	1. ALL WORK TO BE DONE AND MATERIALS FURNISHED COMPLYING WITH APPLICABLE LAWS, AND RESOLUTIONS, INCLUDING THE CURRENTLY ENFORCED VERSIONS OF THE INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL PLUMBING CODE (IPC), INTERNATIONAL BUILDING CODE (IBC), AND LOCAL, STATE, AND FEDERAL FIRE SAFETY CODES (NFPA). 2. ALL MATERIALS USED SHALL BE NEW AND UNDAMAGED. 3. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH CURRENT CONSTRUCTION INDUSTRY STANDARDS AND WORKMANSHIP. 1. ALL DUCTWORK SHALL BE CONSTRUCTED FROM HOT NEW DIPPED GALVANIZED SHEET IRON OR STEEL, ASTM A-120, IN COMPLIANCE WITH THE APPLICABLE CODES, AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR GAGE AND REINFORCEMENT. ALL DUCTWORK SHALL BE SEALED AND INSULATED IN ACCORDANCE WITH THE APPLICABLE CODES. 2. ALL LOW VELOCITY AIR CONDITIONING SUPPLY AIR AND RETURN AIR DUCTWORK SHALL BE 2-INCH DUCT CONSTRUCTION. CONSTRUCT AND ERECT DUCTWORK IN ACCORDANCE WITH THE APPLICABLE CODES, SMACNA STANDARDS AND ASHRAE HANDBOOKS. DUCTS SHALL CONFORM TO DIMENSIONS ON THE DRAWINGS UNLESS LOCATION OF STRUCTURAL MEMBERS PROHIBITS. IN CASE OF CHANGE IN DIMENSIONS, CROSS SECTIONAL AREAS SHALL BE MAINTAINED. 3. ROUND FLEX DUCT SHALL BE USED FOR DIFFUSER-GRILL CONNECTIONS ABOVE LAY-IN CEILINGS. FLEXDUCT MAY BE USED IN OTHER AREAS WHERE THE DUCT AND GRILLE ARE PERMANENTLY AND REASONABLY ACCESSIBLE. MAXIMUM FLEX DUCT LENGTH IS 5'-0" AND THE DUCTWORK SHALL BE PRE-LINED WITH 1" INSULATION. PERFORMANCE OF FLEXIBLE DUCT SHALL MEET OR EXCEED THE RIGID DUCTWORK. 4. FLEXIBLE DUCTS SHALL BE THERMAFLEX II TYPE M-KE, FACTORY FABRICATED ASSEMBLY, SPIRAL CONSTRUCTION, FIBERGLASS BLANKET INSULATION (R=6.0), AND MYLAR SHEATH. FLEXIBLE DUCTS UL LISTED FOR CLASS 0 DUCT AND COMPLY WITH NFPA-90A. 5. PAINT ALL DUCTWORK, TURNING VANES, INSULATION ECT., THAT IS VISIBLE THROUGH GRILLES, REGISTERS, OR CEILING DIFFUSERS. 6. TAPE ALL JOINTS IN SHEET METAL DUCTWORK WITH ARABOL AND CANVAS OR EQUAL ADHESIVE. 7. FLEXIBLE CONNECTIONS SHALL BE 30 OUNCE, CLOSELY WOVEN, NEOPRENE COATED GLASS FABRIC THAT IS FIRE RETARDENT, WEATHERPROOF AND AIRTIGHT, A MINIMUM OF 6" WIDTH. 8. FABRICATE ALL SHEET METAL DUCTS OF PRIME GRADE, LOCKING FORMING QUALITY GALVANIZED STEEL SHEETS USING GAUGES OF METAL AND REINFORCING BETWEEN JOINTS AS FOLLOWS A. 12" AND SMALLER (LONGEST SIDE)-24 GAUGE B. 13"-18" (LONGEST SIDE) - 24 GAUGE. C. 19"-30" (LONGEST SIDE) - 24 GAUGE, WITH 1"x1"x1/8" ANGLES AT 5 FT. ON CENTER D. 31"-42" (LONGEST SIDE) - 22 GAUGE, WITH 1"x1"x1/8" ANGLES AT 5 FT. ON CENTER 9. DUCT LINER SHALL HAVE A FLAME SPREAD AND SMOKE DEVELOPMENT 25 OR LESS AND 50 OR LESS WHEN TESTED BY ASTM E-84 (NFPA 255) METHOD. 10. INSULATE THE FIRST 10 FEET OF ALL RECTANGULAR SUPPLY AIR AND ALL RECTANGULAR RETURN AIR SHEET METAL DUCTWORK INTERNALLY WITH JOHNS-MANVILLE LINACOUSTIC RC FIBERGLASS DUCT LINER WITH REINFORCED COATING SYSTEM, THICKNESS 1" (R=6.0) AND DENSITY 1-1/2 PCF. ALL OTHER RECTANGULAR SUPPLY AIR AND RIGID ROUND DUCTWORK SHALL BE INSULATED WITH 2" THICK (R=6.0) JOHNS-MANVILLE MICROLITE DUCT WRAP WITH FSK VAPOR BARRIER.
15250 MECHANICAL INSULATION	1. INSULATE ALL METAL SUPPLY AND RETURN DUCTWORK WITH 2" FOIL BACKED FIBERGLASS INSULATION. IN UNHEATED ATTICS OR IN AREAS LOCATED ABOVE THE LINE OF BUILDING INSULATION, INSULATE ALL DUCTWORK, INCLUDING RETURN AIR AND EXHAUST AIR DUCTWORK, WITH 3" FOIL-BACKED INSULATION, AND REQUEST THAT GENERAL CONTRACTOR BLOW ATTIC INSULATION OVER THE TOP OF THE INSULATED DUCTWORK, EXPOSED SPIRAL DUCTWORK, OR DUCTWORK LOCATED WITHIN A HEATED SPACE DOES NOT REQUIRE INSULATION. 2. LINE ALL SUPPLY AND RETURN DUCTWORK WITHIN FIFTEEN (15) FEET OF SUPPLY FAN WITH 1/2" DUCT LINER TO REDUCE SOUND. 3. ALL INSULATION MATERIALS TO HAVE A FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPMENT RATING OF 50 OR LESS AS TESTED BY ASTM E-84, UL-723, NFPA 90A-90-B.
15782 ROOF-TOP UNITS	1. THE OWNER SHALL FURNISH AND GENERAL CONTRACTOR SHALL INSTALL PACKAGED ROOF-TOP UNIT(S) AS SHOWN AND SCHEDULED. THE UNIT(S) SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, AND SHALL PERFORM AT THE CONDITIONS SCHEDULED. 2. THE MECHANICAL CONTRACTOR SHALL PROVIDE TWO (2) SETS OF FILTERS FOR EACH UNIT AND SHALL BE RESPONSIBLE FOR CHANGING FILTERS WITHIN TWO (2) WEEKS OF START-UP. 3. THE MECHANICAL CONTRACTOR SHALL PROVIDE A SINGLE POWER SOURCE CONNECTION DISCONNECT AND A 15 AMP DUPLEX, WEATHERPROOF CONVENIENCE OUTLET BOX FOR EACH ROOF TOP UNIT INSTALLED. 4. EQUIPMENT FURNISHED BY CARRIER NATIONAL ACCOUNTS. FOR QUESTIONS SEND EMAIL TO NATIONALACCOUNTS@CARRIER.COM OR REACH OUT TO MATT MURPHY, 630-235-1615, MATT.MURPHY@CARRIER.COM.
15783 CONDENSATE AND COOLER DRAINS	1. CONDENSATE DRAIN PIPING SHALL BE ASTM B-88, TYPE "M" HARD DRAWN COPPER WITH WROT COPPER FITTINGS AND SOLDERED JOINTS, 50/50 SOLDER. INSULATE WITH 1/2" THICK FLEXIBLE CLOSED CELL FOAMED PLASTIC PIPE INSULATION, ARMSTRONG ARAMFLEX, OR EQUAL FOR ENTIRE LENGTH. FITTINGS FIELD FABRICATED OF NESTING SIZES, SECURED WITH ADHESIVE. REFRIGERANT SUCTION LINES SHALL BE INSULATED TO 1" THICKNESS. 2. ALL PIPING SHALL CONFORM TO ASTM B88-72. 3. FITTINGS SHALL WROUGHT COPPER, DRAINAGE TYPE FOR LINES 1-1/4" AND LARGER. SOLDER WITH 50/50 SOLDER.

SECTION	MECHANICAL SPECIFICATIONS
15910 DUCT ACCESSORIES	1. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING VOLUME DAMPERS, TURNING VANES, ACCESS DOORS, VIBRATION ISOLATORS, ETC. 2. THE ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
15975 TEMPERATURE CONTROLS	1. THE OWNER SHALL FURNISH OR CONTRACT A TEMPERATURE CONTROL CONTRACTOR TO FURNISH ALL MOTORS, DRIVES, CONTROLLERS INTEGRAL TO THE MECHANICAL EQUIPMENT SYSTEM, AND FACTORY MOUNTED CONTROLS FOR ALL MECHANICAL EQUIPMENT. 2. THE MECHANICAL CONTRACTOR OR CONTRACTED TEMPERATURE CONTROL CONTRACTOR SHALL FURNISH AND INSTALL ALL SWITCHES, FIRE STATS, FREEZE STATS, THERMOSTATS, RELAYS, TIMERS, CONTROL CABINETS, AND OTHER SPECIALIZED EQUIPMENT PERTAINING TO MECHANICAL CONTROL. 3. THE ROOF MOUNTED UNITS (RTU#) SHALL BE CONTROLLED BY A PROGRAMMABLE THERMOSTAT WITH REMOTE TEMPERATURE SENSORS. A. THE TEMPERATURE CONTROLS SHALL BE ELECTRIC, 7-DAY PROGRAMMABLE, WITH FUNCTION: AUTO, MANUAL, AND FAN ONLY, UNLESS SPECIFICALLY REQUESTED BY THE OWNER, AND SHALL BE PROVIDED BY THE CONTRACTED TEMPERATURE CONTROL CONTRACTOR. B. DEHUMIDIFICATION SYSTEMS SHALL BE CONTROLLED BY MANUFACTURER'S HUMIDISTAT. C. ALL CONTROL WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR LOCATION FOR CONDUITS. THE CONTRACTOR RESPONSIBLE TO INSTALL THE CONTROLS SHALL BE RESPONSIBLE TO PULL THE CONTROL WIRE. D. THE ROOF TOP UNIT SHALL UTILIZE TEMPERATURE CONTROL SYSTEM FURNISHED AS PART OF THE UNIT, OR SPECIFIED TO BE PROVIDED AS OPTIONS OR ACCESSORIES BY THE MANUFACTURER BY OF THE UNIT. ALL WIRING WILL BE DONE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS FURNISHED BY THE MANUFACTURER. 4. ELECTRICAL WIRING: ALL WIRING AND STARTERS ARE INCLUDED IN THE ELECTRICAL DIVISION OF THIS PROJECT, BUT ALL CONTROLS, RELAYS, ETC., ARE INCLUDED UNDER THIS DIVISION. ROOM THERMOSTATS AND CONTROL SWITCHES SHALL BE LOCATED AS SHOWN OR DIRECTED, AND ALL CONTROLS, RELAYS, STARTERS AND WIRING SHALL CONFORM TO THE CURRENTLY ENFORCED VERSION OF THE NATIONAL ELECTRICAL CODE (NEC). ALL CONTROLS SHALL BE FURNISHED AND PROPERLY IDENTIFIED, WITH INSTRUCTIONS FOR PROPER ELECTRICAL CONNECTIONS. RESPONSIBILITY FOR PROPER CONNECTIONS AND OPERATION IS INCLUDED HEREIN.
15990 TESTING, ADJUSTING, AND BALANCING	1. THE MECHANICAL CONTRACTOR SHALL SUBCONTRACT AN AIR BALANCER TO BALANCE THE SYSTEMS DESCRIBED BELOW. 2. THE BALANCING SHALL BE COMPLETED BY AN INDEPENDENT AIR BALANCER WHO IS NOT AN EMPLOYEE OF THE MECHANICAL CONTRACTOR. 3. THE BALANCING SHALL BE DONE BY A QUALIFIED AIR BALANCER THAT HAS AT LEAST (3) YEARS OF DOCUMENTED AIR BALANCING EXPERIENCE. 4. THE BALANCER SHALL SUBMIT AN AIR BALANCE REPORT TO THE ENGINEER AND CITY INSPECTOR. 5. THE BALANCE REPORT SHALL SHOW PROOF THAT THE SYSTEM HAS BEEN BALANCED TO +/- 5% OF THE DESIGNED AIRFLOW. IT IS THE MECHANICAL CONTRACTOR AND AIR BALANCER'S DUTY TO PROVIDE ACCURATE DATA, SO AREAS OF INCORRECT FLOW MAY BE DISCLOSED TO THE ENGINEER, INSPECTOR, AND OWNER. 6. ALL AIRSIDE SYSTEMS, COMPONENTS, ETC. INCLUDING SUPPLY, RETURN, OUTDOOR, AND EXHAUST AIR SYSTEMS SHALL BE BALANCED. THE BALANCER SHALL PROVIDE SHEAVES AND BELTS AS NEEDED TO PROPERLY BALANCE EQUIPMENT TO +/- 5% OF THE DESIGNED AIRFLOWS. ALL DIFFUSERS, REGISTERS, GRILLES, AND LOUVERS SHALL BE INDIVIDUALLY BALANCED AND LISTED IN THE BALANCE REPORT. ALL AIRSIDE EQUIPMENT, SUPPLY, RETURN, AND OUTDOOR AIR FLOWRATES SHALL BE LISTED IN THE BALANCE REPORT.

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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PROJECT TEAM

ARCHITECTURAL/STRUCTURAL
FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
07/27/26	PERMIT SET

PROFESSIONAL SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053741 RYAN E. WATERS
07/28/2026
COA:P-1359

PROFESSIONAL IN CHARGE
R. WATERS - PE

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PROJECT NAME

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FMS JOB NUMBER
G25B6

FMS MODEL NUMBER
XXXXXX

PROJECT NUMBER
20260936.0

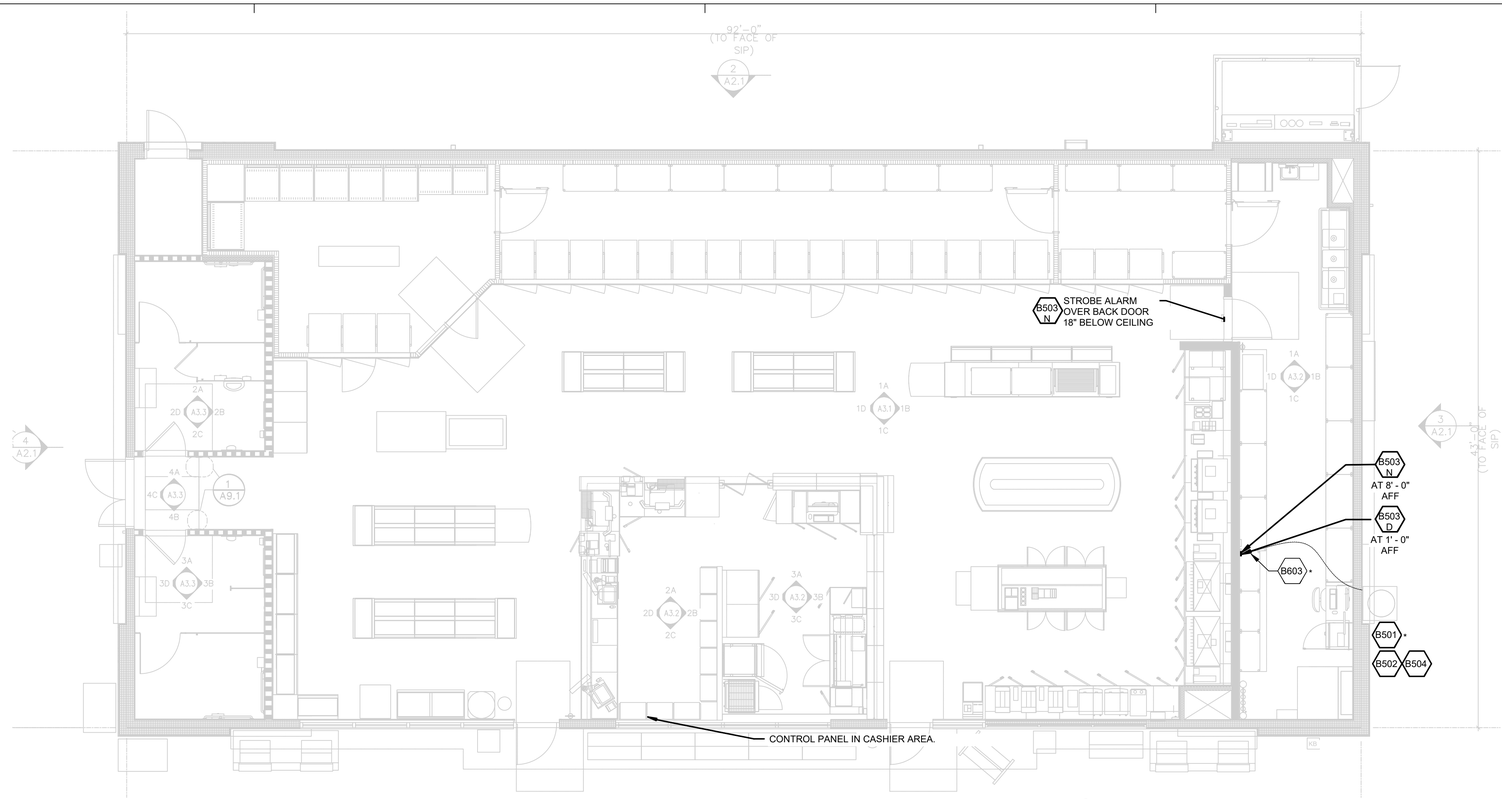
SHEET TITLE

MECHANICAL - SPECIFICATIONS

SHEET NUMBER

M1.3

Drawing Name: \\greenbergfarrow.com\ProjectFiles\Projects\2026\20260936\500 MEP Construction Documents\G25B6 Circle K\3. Drawings\MC Mech\M1.3.dwg Last Modified: Jul 27, 2026 - 5:19pm Plotted on: Jul 27, 2026 - 5:24pm by sandiano



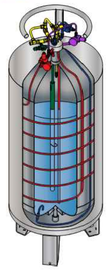
CO2 LAYOUT PLAN (FOR REFERENCE ONLY) | 1

3/16" = 1'-0"

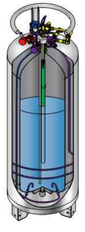
CARBO SERIES

HIGH CAPACITY BULK CO_2 SYSTEMS

Carbo-Max®



Carbo-Mizer®



Specifications							
MODEL	Carbo-Mizer 300	Carbo-Mizer 450	Carbo-Mizer 550	Carbo-Mizer 750	Carbo-Max 600	Carbo-Max 750	Carbo-Max 1000
Capacity (Liters)							
Gross	179	196	244	327	258	327	458
Net	122	189	238	320	244	320	428
Capacity (Gallons)							
Gross	34.1	51.8	64.5	86.4	68.2	86.4	121
Net	32.2	49.9	62.9	84.5	64.5	84.5	113.1
MAWP							
psig	300	300	300	300	300	300	300/350
barg	20.7	20.7	20.7	20.7	20.7	20.7	20.7/24.1
Pre-Set Operating Pressure (1)							
psig	125	125	125	125	150	150	150
barg	8.6	8.6	8.6	8.6	10.3	10.3	10.3
Design Specifications							
DOT/ASME	ASME	ASME	ASME	ASME	ASME	ASME	ASME
CO_2 Storage Capacity (2)							
lbs	302	467	588	791	603	791	1058
kg	137	212	267	359	274	359	480
Thermal Performance (NER) (3)							
lbs/day	2.0	2.5	2.5	3.0	3.0	3.0	3.0
kg/day	0.9	1.1	1.1	1.4	1.4	1.4	1.4
Continuous Gas Delivery Rate (4)							
lbs/hr	1.0	5.5	6.5	10	15	15	30
kg/hr	0.5	2.5	2.9	4.5	6.8	6.8	13.6
16oz drinks/hr (6)	89	491	580	893	1339	1339	2679
Peak Gas Delivery Rate (5)							
lbs/hr	3.0	10	10	15	40	40	50
kg/hr	1.4	4.5	4.5	6.8	18.1	18.1	22.7
16oz drinks/hr (6)	268	893	893	1339	3571	3571	4464
Dimensions							
Diameter							
in	20	20	22	26	22	26	30
cm	51	51	56	66	56	66	76
Height (7)							
in	55.6	71.8	72.5	73.9	75.9	73.9	72.5
cm	141	182	185	188	193	188	184
Tare-Weight							
lbs	216	273	318	430	323	430	788
kg	98	124	144	195	147	195	357

Notes:
(1) Pressure Building regulator for Carbo-Mizer, Econo-mizer for Carbo-Max
(2) Values are based on net capacity at 125 psig (8.6 barg)
(3) No loss during normal use
(4) Values are based on 12 consecutive hours of use @ room temperature
(5) Values are based on 4 consecutive hours of use @ room temperature
(6) Values are based on 1.12 lbs (0.508 kg) CO2/100 16oz drinks
(7) Height is with legs. Without legs, subtract 6" (15 cm)

DOT- Department of Transportation, 4L Code ASME- American Society of Mechanical Engineers, Section VIII, Division 1

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CO_2 TANK STORAGE CABINET

ENSURING A SECURE ENVIRONMENT

Bulk CO_2 Systems



• FAST FOOD • CONVENIENCE STORES • RESTAURANTS • BREW PUBS

The CO_2 Tank Storage Cabinet is used to cover Chart Beverage CO_2 tanks in outside installations.

It provides added security for outside installations and blends with the surrounding architecture.

The cabinet will accommodate all sizes of Chart Beverage CO_2 tanks up to the Carbo-Max 750.

The cabinet comes un-assembled in an easy to ship package that prevents damage while in transit. The cabinet can be assembled on site in about one hour, using a screwdriver and small adjustable wrench.

PRODUCT HIGHLIGHTS

- Two hinged, lockable doors for easy access to fill connections, valves and gauges
- Outlet port accommodates two inch conduit connections
- Bottom tabs for bolting the cabinet down to concrete pad or floor
- Louvered panels provide over 60% open surface area for natural cross ventilation
- Ribbed roof panel provides protection from sun, rain, snow and hail (Roof panel can be removed as needed)
- Power coated gray primer finish is ready to paint custom colors
- Rust proof, lightweight and strong –.125" thick aluminum construction
- 32.6" W x 32.6" D x 76.5" H

Optional Vent Kit - directs vent discharge from the tank down towards the floor

Optional Fill Connection - connects fill box style fill hose connection directly to the tank fill valve



Your Local Representative

CHART Cooler By Design®

Chart Inc.
U.S.: 1-800-247-4446
Worldwide: 1-952-243-8800
chartbeverage.com • chartparts.com

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PN 20619418

CO2 Mk9 Sensor (1134)

for LogiCO2 Safety Systems

CE



TECHNICAL DATA

Power supply:	12-24V DC
Number of sensors:	1-8
Communication:	RS485 Modbus
Automatic calibration:	Several times a year
Ingress protection:	IP56

The Mk9 Sensor is adjustable for altitude compensation.

FUNCTION

The Carbon Dioxide (CO2) Sensor is designed to measure the amient CO2 concentration. It provides an alarm in the event that a CO2 level considered unhealthy/dangerous in accordance with existing safety codes.

The basic CO2 Sensor uses IR technology to measure the CO2 concentration and communicates with MODBUS. It can be used as a stand alone unit, connected to the LogiCO2 Central Unit or be used as a sensor in a larger computerised monitoring system. A separate electronic transformer supplies 24 V power to the system. The system monitors STEL as well as TWA levels of CO2. The system also provides visible indication of CO2 levels and temperature in the area where the remote sensor is located. The CO2 Sensor performs a self-calibration at regular intervals ensuring calibration under normal circumstances. This eliminates the need of manual service calibration in most normal enviroments.

When installed properly, the CO2 Safety System will continuously monitor the CO2 concentration and temperature wherever a sensor unit is located. A green light emitting diode (LED) indicates normal safe conditions. If ambient conditions at the sensor unit reach a CO2 concentration level of 1.5% (preset low alarm), the unit will emit an intermittent audible tone and the «low alarm» red LED will blink. A remote indication can be done with the two seperate outputs, for example Horn/Strobes.

APPROVALS

CE, EN55022 :2006/A1 :2007, EN55024/A2 :2003, EN61000-3-2 : 2006, EN61000-3-3/A2 :2006, AS/NZS CISPR 22 :2006, IEC/EN :IT550221/55024, LNE Règle de certification NF 128 rev 12 Nov 2007 (§2.1.2.4.3.) for the S8 CO2 Sensor Module. UL Certified. DIN6653-2:2015-06.

In the United States, the Mk9 system is in compliance with International Fire Code (IFC) 2015 Edition Section 5307.5.2.2, CGA G-6.5 2013, NFPA 55 2013 Edition 13.2.2 and NBIC Part 1 Supplement 3 S 3.4.

In compliance with EU Commission Directive 2006/15/EC of 7 Feb 2006 as well as OSHA – PEL (Permissible Exposure Limit) of TWA for CO2.

ORDERING EXAMPLE

Description	Item code
CO2 Sensor Mk9 without cable	1134 (Spare part)

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NOTES

1. PRESSURED RELIEF DEVICES SHALL BE PIPED TO THE OUTDOORS WHERE THE DISCHARGE WILL NOT IMPINGE ON THE STRUCTURE, PERSONNEL, OR MEANS OF EGRESS AND WILL NOT CREATE A HAZARDOUS CONCENTRATION OF CARBON DIOXIDE. (NFPA 55, 13.1.1.2). THE TERMINATION OF THE PRESSURE RELIEF VENT DISCHARGE PIPING SHALL BE OUTDOORS AND A MINIMUM OF 10 FEET FROM THE OPENING INTO THE BUILDING.
2. CONTAINERS, CYLINDERS, AND TANKS SHALL BE PROVIDED WITH A PRESSURE GAUGE AND A LEVEL GAUGE OR DEVICE FOR INDICATING THE QUANTITY OF LIQUID CARBON DIOXIDE. (NFPA 55, 13.1.2.1)
3. ROOMS OR AREAS WHERE CONTAINER SYSTEMS ARE FILLED AND USED INDOORS OR IN ENCLOSED OUTDOOR LOCATIONS SHALL BE PROVIDED WITH A GAS DETECTION AND ALARM SYSTEM THAT IS CAPABLE OF DETECTING AND NOTIFYING THE BUILDING OCCUPANTS OF A GAS RELEASE THAT CREATES CARBON DIOXIDE VAPORS IN EXCESS OF ITS PEL. (NFPA 55, 13.2.2)
4. CARBON DIOXIDE GAS DETECTION SHALL BE AS FOLLOWS:
   A. PRE-ALARM (1500 PPM) NOTIFYING MAY INCLUDE, BUT NOT LIMITED TO THE BUILDING OWNER, WORKING SUPERVISOR, OR MAINTENANCE COMPANY.
   B. ALARM (30,000 PPM) NOTIFICATION SHALL INCLUDE THE COMPLETE AREA, OR BUILDING EVACUATION AND ACTIVATION OF THE 911 SYSTEM, TO NOTIFY THE CITY'S FIRE DEPARTMENT OF A CARBON DIOXIDE GAS DETECTION ALARM. (PFD POLICY CARBON DIOXIDE 1.1)
5. CARBON DIOXIDE DETECTION SHALL BE LOCATED AT ALL POINTS OF USE LOCATIONS INSIDE THE BUILDING. (R3000.1)
   A. NOTE. THE DETECTION SHOULD BE PLACED AT A LEVEL ACCEPTABLE BASED ON THE PROPERTIES OF THE GAS (HEAVIER OR LIGHTER THAN AIR) 12-18 INCHES AFF OR BFC
6. ACTIVATION OF THE GAS DETECTION SYSTEM SHALL INITIATE AN AUDIBLE ALARM WITHIN THE ROOM OR AREA IN WHICH THE SYSTEM IS INSTALLED (NFPA 55, 13.2.2.1)
7. A WARNING SIGN SHALL BE POSTED AT THE ENTRANCE TO THE BUILDING, ROOM, ENCLOSURE, OR CONFINED AREA WHERE THE CONTAINER IS LOCATED. (NFPA 55, 13.2.3)
8. THE WARNING SIGN SHALL BE AT LEAST 8 IN. (200 MM) WIDE AND 6 IN. (150MM) HIGH AND STATE THE FOLLOWING:
   A. CAUTION: CARBON DIOXIDE GAS. VENTILATE THE AREA BEFORE ENTERING. A HIGH CARBON DIOXIDE (CO2) GAS CONCENTRATION IN THIS AREA CAN CAUSE SUFFOCATION. (NFPA 55, 13.2.3.1)
9. PROVIDE MINIMUM OF TWO NOTIFICATION DEVICES, ONE NEAR THE AREA/ROOM WHERE CYLINDER IS LOCATED, ONE IN COMMON AREA WHERE THE PUBLIC GATHERS. DEVICES SHALL BE RATED AT 100 CD FOR VISUAL EFFECT AND 75 DB FOR AUDIBLE EFFECT UNLESS FULL FIRE ALARM IS PRESENT. (R3000.1)
   A. *NOTE - IF THE BUILDING IS EQUIPPED WITH A FIRE ALARM NOTIFICATION SYSTEM; THE USE OF THE SYSTEM IS ACCEPTABLE, PROVIDED THE GAS DETECTION HAS AUDIBLE AND VISIBLE CLEAR INDICATORS IN THE HAZARD AREA UPON BOTH THE WARNING LEVEL AND ALARM LEVEL OF THE GAS.
10. GAS DETECTION SYSTEM SHALL BE TIED INTO THE MONITORING SYSTEM IF PROVIDED (R3000.1)
11. PROVIDE LABEL ON PIPING TO INDICATE EXACT CONTENTS AND DIRECTION OF FLOW. THESE LABELS SHALL BE PLACED EVERY 20 FEET, MAJOR CHANGE IN DIRECTION AND WHERE PIPING ENTERS AND LEAVING WALLS.

LEGEND

* SHUT OFF VALVE LOCATION

CO2 TANK TUBING

- B603 - POINT OF USE (BAG IN THE BOX)
- B501 - CO2 TANK
- B502 - CO2 CABINET
- B503 D - DETECTION DEVICE
- B503 N - NOTIFICATION DEVICE (REPEATER)
- B504 - CO2 SIGN, SEE DETAIL 2/A9.1

NOTE: SEE ALSO SHEET A1.5 & A3.2 FOR ADDITIONAL INFORMATION

PFS CORPORATION
Approval Limited to Factory Built Portion Only

State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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PROJECT TEAM

ARCHITECTURAL/STRUCTURAL
FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
07/27/26	PERMIT SET

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07/28/2026
COA:P – 1359

PROFESSIONAL IN CHARGE
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G25B6

FMS MODEL NUMBER
XXXXXX

PROJECT NUMBER
20260936.0

SHEET TITLE

CO2 LAYOUT PLAN AND NOTES

SHEET NUMBER

M1.4

Drawing Name: \\greenbergfarrow.com\Project\Files\Projects\2026\20260936.000_MEP_Construction Documents\G25B6 Circle K\3_Drawings\MC Mech\M1.4.dwg Last Modified: Jul 27, 2026 – 5:20pm Plotted on: Jul 27, 2026 – 5:24pm by sandoso

NuCO2 BEVERAGE CARBONATION MADE EASY	Specifications for Phoenix, Arizona: Fill, Vent and Supply Line Materials for $NuCO_2$ Micro Bulk Tank Installations	Item ID #: PFD-01	Revision#: 3.0

1. **Purpose:** Provide the specification for the Fill, Vent and Supply Line Materials for Micro Bulk Tank Installations completed by $NuCO_2$ in Phoenix, AZ.
2. **Process Owner:** Director Product Engineering, CO_2 Solutions
3. **Responsibility:** PHX Service Technicians, PHX Supervisor, District 9 Manager, Safety, Engineering, Supply Chain.
4. **Part Specifications**

Gas Vent Line

Operating Conditions	Minimum Materials Specifications Required
PRD set/rats for < 1000 lb capacity - 2 SCFM & backpressure ≤ 10% PRD set pressure; for 0.375" ID ≤ 100' backpressure < 15 psig (< 5% of 300 psig PRD)	Working Pressure: 120 psig minimum
Tested operating Temperatures and Pressures in Vent Line during Filling:	Burst Pressure Rating: 480 psig minimum (must be ≥ 4X Working Pressure)
Manual Vent Fill: -30°F and 38 psig	Temperature Rating: -50°F to +125°F or higher
Semi-Fill Vent Fill (Chart Industries) : -50°F and 120 psig	Inside Diameter = 0.375" nominal
	Outside Diameter = 0.500" nominal

NuCO2 BEVERAGE CARBONATION MADE EASY | Specifications for Phoenix, Arizona: Fill, Vent and Supply Line Materials for $NuCO_2$ Micro Bulk Tank Installations | Item ID #: PFD-01 | Revision#: 3.0

Operating Conditions	Minimum Materials Specifications Required
Pressures during filling are between 150 and 300 psig	Working Pressure: 300 psig minimum
	Rated Burst Pressure: 1200 psig minimum (must be ≥ 4X Working Pressure)
Liquid temperatures during filling are between -34°F and +2°F	Temperature Rating: -40°F to +125°F or higher
	FDA 21 CFR 177 Food Compliant and NSF/ANSI Food Equipment Materials

$NuCO_2$ Specifications for Metallic Copper Vent and Fill Line :

- Material Specification: ASTM B280 Type ACR A (annealed) Copper Tube

Nominal Tube Size, Inches	Outside Diameter , inches	Inside Diameter, inches	Wall Thickness, inches	Calculated Minimum Burst Pressure, psi	Working Pressure, S=6000 psi 100°F
1/2	0.500	0.436	0.032	4097	727

NuCO2 BEVERAGE CARBONATION MADE EASY | Specifications for Phoenix, Arizona: Fill, Vent and Supply Line Materials for $NuCO_2$ Micro Bulk Tank Installations | Item ID #: PFD-01 | Revision#: 3.0

Gas Supply Line

Operating Conditions	Minimum Materials Specifications Required
Micro Bulk Tank regulated outlet supply gas pressure requirements are between 90 psig for PepsiCo and 120 psig for Coca-Cola	Working Pressure: 120 psig minimum
	Burst Pressure Rating: 480 psig minimum (must be ≥ 4X Working Pressure)
	Temperature Rating: 0°F to +125 psig
Tested supply gas temperature from Micro Bulk Tank: +50°F to +53°F	IO/OD - 0.250"/0.420" and 0.375"/0.535" nominal
	FDA 21 CFR 177 Food Compliant and NSF/ANSI Food Equipment Materials
	Low permeability

$NuCO_2$ Specifications for *Non-Metallic* gas Supply Line material:

- *Working Pressure:* 125 psig minimum (requirements for Supply Pressure Regulator setting 90 psig for Pepsi and 120 psig Coca-Cola)
- *Burst Pressure Rating:* 500 psig minimum (4x Working)
- *Operating Temperature:* -10°F or lower to +125°F (Chart Industries testing demonstrates outlet gas temperature approximately +50°F)
- *ID/OD* - 0.250"/0.420" and 0.375"/0.535 nominal minimum
- *Color:* natural
- FDA 21 CFR 177 Food Compliant and NSF/ANSI 51 Food Equipment Materials
- Low permeability

NuCO2 BEVERAGE CARBONATION MADE EASY | Specifications for Phoenix, Arizona: Fill, Vent and Supply Line Materials for $NuCO_2$ Micro Bulk Tank Installations | Item ID #: PFD-01 | Revision#: 3.0

$NuCO_2$ Non-Metallic CO2 gas beverage supply material example:

FLEX-TECH HOSE & TUBING, INC.

PEB FDA/NSF-51 POLYETHYLENE BEVERAGE HOSE

Hose is made from premium grade FDA and NSF listed materials. The combination of the EVA cover and the Polyethylene tube material have been carefully selected for low taste and odor properties, superior flexibility, clarity and high environmental stress cracking resistance.

Applications:

- Soft drink fountain machines for retail and commercial dispensing
- Other beverage dispensing to include but not limited to the following:
  - Coffee and coffee related products, fruit juice, frozen drinks, tea tea.
- Food grade dry and liquid chemical product dis
- Water service (potable) both carbonated and non carbonated
- Dairy product dispensing machines

Construction:

- Tube: extruded from FDA approved (regulation 21 CFR 177.1520) and NSF-51 listed Polyethylene. Material has been carefully selected for its low taste and odor properties, superior flexibility, clarity and high environmental stress cracking resistance.
- Reinforcement: Synthetic, high tensile textile cord for improved coupling performance, higher pressure ratings and longer lasting overall product integrity and durability.
- Cover: FDA approved (regulations 21 CFR 177.1350 and 175.105) Ethylene Vinyl Acetate (EVA) Copolymer specially formulated for clarity and added flexibility
- All materials used in the construction of this product are RoHS compliant.

Specifications:

Temperature Range: -40° F (-40°C) to 130°F (65.5°C)
Standard Sizes: 3/4", 5/8", 1/2"
Rated Working Pressure: See Table Below (min 3:1 safety factor)
Packaging: 100' coils boxed or shrink wrapped in plastic and labeled, 300' coils, 500' coils, 1000' coils (indicate in/out for reidentification upon request)

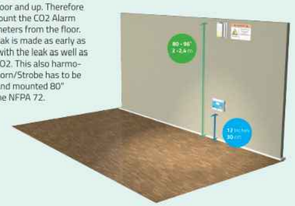
*Private brand labeling and tracer yarn color coding available – minimum order quantities may apply.

Item Number	Nominal I.D.	O.D.	MAX WP @ 70°F	Min. Burst	WT. Per Ft.	Standard Pkg Qty
PFB-0500-00	1/2	0.625	500 PSI	900 PSI	0.09 lbs	300 ft bound or skein
PFB-0600-00	3/4	0.840	350 PSI	900 PSI	.127 lbs	300 ft bound or skein

CO2 Alarm Sensor Mk9
Quick Guide

Installation Height

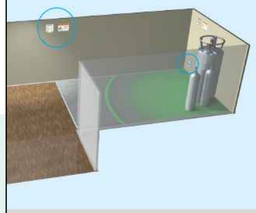
CO2 is a heavy gas that accumulates in the lowest areas filling an area from the floor and up. Therefore it is our recommendation to mount the CO2 Alarm Sensor at 12 inches /30 centimeters from the floor. This way the awareness of a leak is made as early as possible insuring time to deal with the leak as well as avoiding unnecessary loss of CO2. This also harmonizes with existing code. The Horn/Strobe has to be able to be seen by everybody and mounted 80" to 96" above the floor as per the NFPA 72.



CO2 detection distance

The CO2 Alarm Sensor must be mounted within a 5 meter/ 15 feet radius of the CO2 distribution point. If a specific distribution point cannot be defined, install the sensor in the most appropriate location to cover a 78 square meter / 840 square foot area to be monitored.



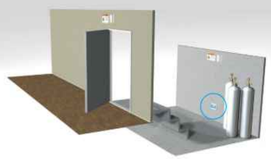


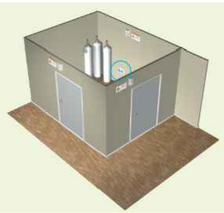
Corridors

In areas were the CO2 is stored in the end of a corridor, it is paramount to place an extra Horn Strobe at the entrance of the corridor. This to give early warning in case of a CO2 leakage.

Lower floor/basement

In areas where the CO2 is stored or distributed in Below Grade locations such as Lower Floors and Basements, it is essential to have Horn Strobes before the entrance to the area.





Enclosed Spaces

In enclosed spaces Horn Strobes must be placed outside of each entrance.

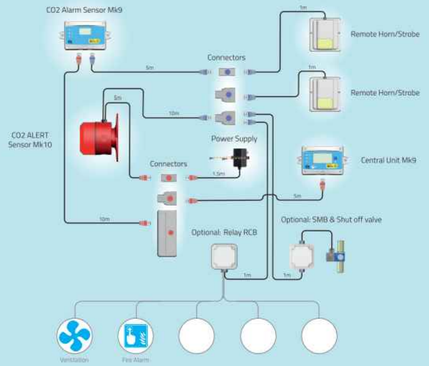
System Installation



Altitude adjustment

Important! For the CO2 sensors to give accurate measurements, do not forget to adjust the altitude compensation on the CO2 sensors to the closest higher altitude value for the location. This easy procedure is covered in the manual.

Installation Schematics:



LogiCO2 International • P.B. 4113 • SE-426 04 Västra Frölunda • Sweden
www.logico2.com • info@logico2.com

Internationell LogiCO2 Patent 2018 • Art_Nr 1 • 2021

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Date: 09/16/2026

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PROJECT TEAM

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FREY MOSS STRUCTURE

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
07/27/26	PERMIT SET

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FMS JOB NUMBER
G25B6

FMS MODEL NUMBER
XXXXXX

PROJECT NUMBER
20260936.0

SHEET TITLE
CO2 CUT SHEETS

SHEET NUMBER
M1.5

Drawing Name: \\greenbergfarrow.com\Projects\Files\Projects\2025\20260600\500_MEP Construction Documents\G25B6 Circle K\3_Drawings\MC Mech\M1.5.dwg Last Modified: Jul 24, 2026 - 9:29am Plotted on: Jul 27, 2026 - 5:14pm by aandiono

GENERAL NOTES

1 CONTRACTOR TO COORDINATE UNDERGROUND SEWER LINE TO AVOID COLUMN FOOTING.

2 PENETRATION THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND FIRE GASES. ALL MATERIALS SHALL BE APPROVED OR LISTED, 2018 NORTH CAROLINE PLUMBING CODE 315.1

KEYNOTES

1 PROVIDE 3-COMPARTMENT SINK DRAIN LINE WITH FLOW CONTROL DEVICE AND RUN TO FLOOR SINK. PROVIDE 2" INDIRECT WASTE FOR 3 COMPARTMENT SINK.

2 3" VTR. MAINTAIN 10'-0" FROM ALL OUTDOOR AIR INTAKES.

3 3" VTR. MAINTAIN 10'-0" FROM ALL OUTDOOR AIR INTAKES.

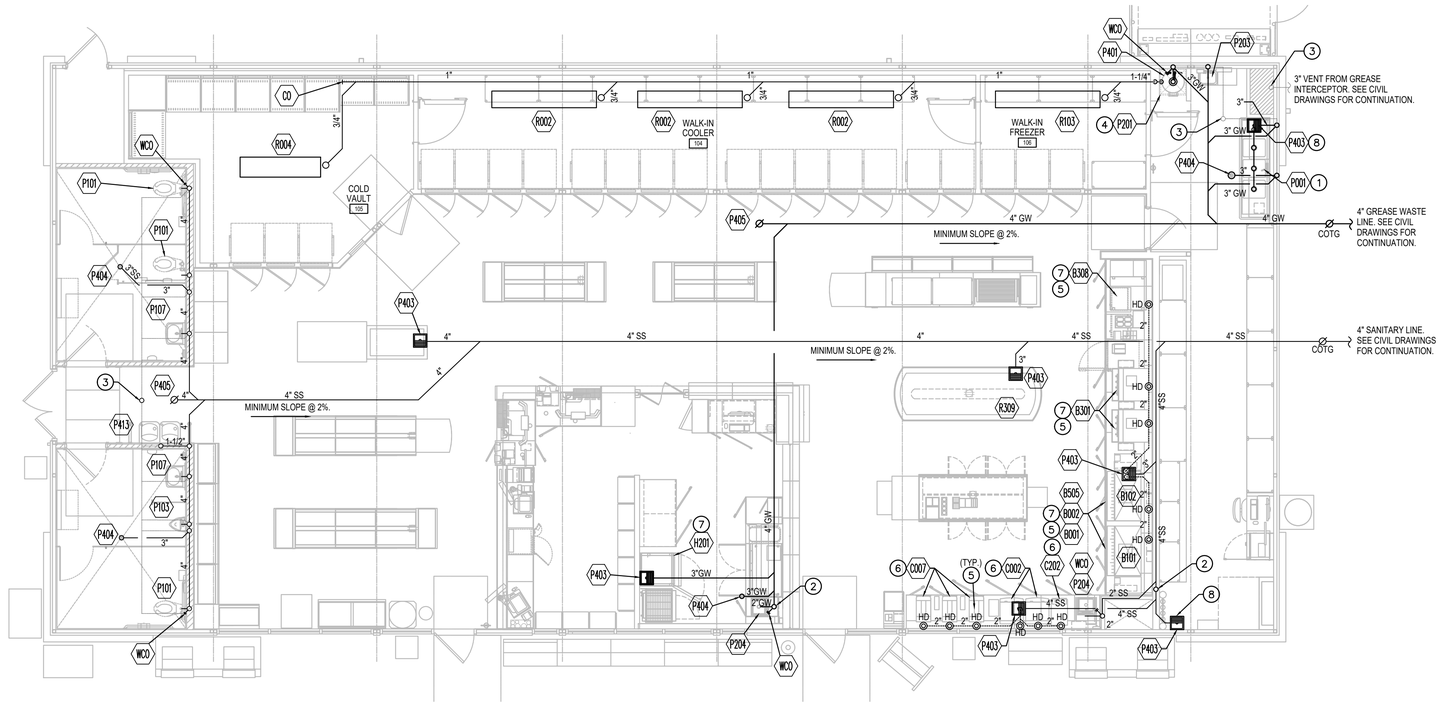
4 PROVIDE HUB DRAIN , DISCHARGE CONDENSATE DRAIN WITH AN AIR GAP .

5 REFER TO DETAIL 2/P1.1.1 FOR TYPICAL HUB DRAIN INSTALLATION.

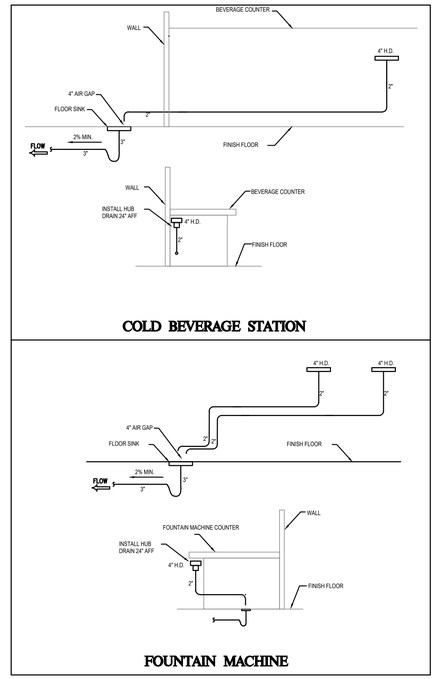
6 ROUTE COFFEE DRAIN LINES TO FLOOR SINK WITH 4" AIR GAP. AIR GAP TO BE TWICE THE EFFECTIVE OPENING BETWEEN INDIRECT WASTE LINE AND FLOOR SINK. DRAIN LINE TO MAINTAIN A MINIMUM SLOPE 2% FROM EQUIPMENT TO FLOOR SINK.

7 DRAIN EQUIPMENT INDIRECTLY TO THE NEAREST FLOOR SINK UNDER CABINET. AIR GAP TO BE TWICE THE EFFECTIVE OPENING. TYPICAL FOR ALL BEVERAGE EQUIPMENTS. DRAIN LINE TO MAINTAIN A MINIMUM SLOPE 2% FROM EQUIPMENT TO FLOOR SINK.

8 FLOOR SINK TO BE MINIMUM 50% EXPOSED WITHOUT HAVING TO MOVE ANY EQUIPMENT AND OPEN CABINETS TO GAIN ACCESS.



PLUMBING FLOOR PLAN - WASTE AND VENT | 1
3/16" = 1'-0"



COLD BEVERAGE STATION

FOUNTAIN MACHINE

HUB DRAIN DETAIL | 2
N.T.S.

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bagag
Title: Staff Plan Reviewer
Date: 09/16/2026

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09/15/2026
COA:P-1359

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TN PLAN NUMBER
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PROJECT NUMBER
20260065.0

SHEET TITLE
PLUMBING FLOOR PLAN - WASTE AND VENT

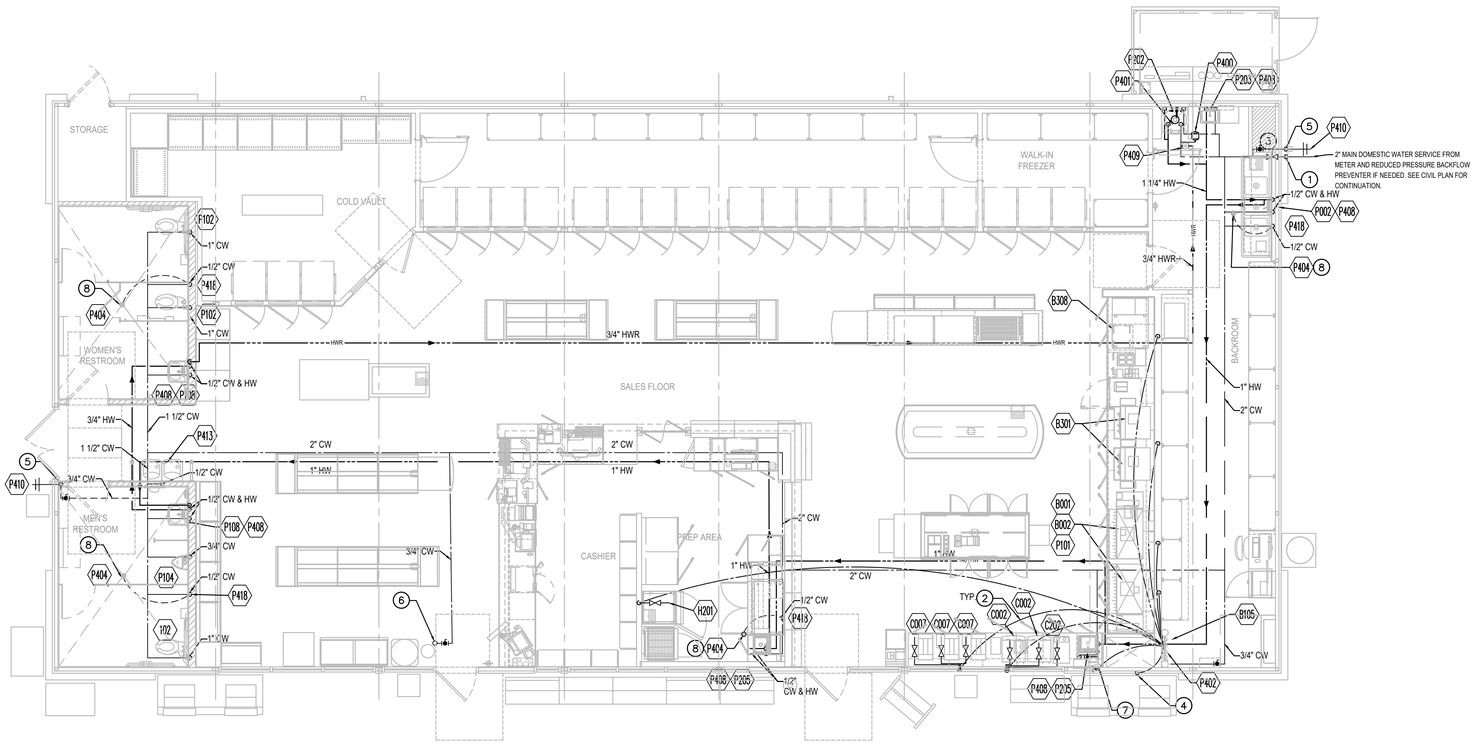
SHEET NUMBER
P1.1.1

GENERAL NOTES

1. CO2 LINE TO RUN IN WALL OVERHEAD TO CONNECT TO CARBONATORS..
2. ICE MAKER MUST HAVE D.C.V.A.
3. PENETRATION THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES. ALL MATERIALS TO BE APPROVED AND LISTED. 2018 NORTH CAROLINE PLUMBING CODE 315.1 (1)

KEYNOTES

1. MAIN WATER SUPPLY LINE UP IN WALL TO ABOVE CEILING. COORDINATE EXACT LOCATION.
2. FILTERED WATER ABOVE CEILING.
3. SHUT-OFF (BALL VALVE) ABOVE CEILING. PROVIDE ACCESS (TYPICAL).
4. 1/2" CW DOWN IN WALL AND TURN-OUT TO EXTERIOR SHALL BE PROVIDED WITH HEAT TAPE AND INSULATION. 1/2" CW TO STUB-OUT FOR WATER MACHINE. RUN DRAIN LINE FROM WATER MACHINE THRU WALL TO FLOOR SINK, PROVIDE 2" AIR GAP.
5. 3/4" CW DOWN IN WALL TO HB SHALL BE PROVIDED WITH HEAT TAPE AND INSULATION.
6. 3/4" CW UP THROUGH ROOF TO HB SHALL BE PROVIDED WITH HEAT TAPE AND INSULATION.
7. ROUTE FILTER WATER LINES DOWN WALL AND OVER HORIZONTALLY UNDER CABINET.
8. PROVIDE TRAP PRIMER FOR FLOOR DRAIN, CONNECT WITH NEAREST COLD WATER LINE.



PLUMBING FLOOR PLAN HOT AND COLD WATER 1

3/16" = 1'-0"

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State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

PLUMBING SYMBOLS

SS	SANITARY SEWER
GW	GREASE WASTE
OW	OIL WASTE
ST	STORM SEWER
RD	ROOF DRAIN LINE
ORD	OVERFLOW ROOF DRAIN LINE
–	DOMESTIC COLD WATER
– –	DOMESTIC HOT WATER
– – –	DOMESTIC HOT WATER RETURN
IW	IRRIGATION WATER
T	110°F TEMPERED WATER
FW	FILTERED WATER
FDW	FILTERED + DESCALED WATER
G	NATURAL GAS
A	COMPRESSED AIR
CD	CONDENSATE DRAIN
RO	REVERSE OSMOSIS WATER
V	PLUMBING VENT
VAC	PLUMBING VACUUM
	UNION
	GAS PRESSURE REGULATOR
	GAS COCK
	ELBOW - TURNED DOWN
	ELBOW - TURNED UP
	TEE - TURNED DOWN
	TEE - TURNED UP
BV	BALL VALVE (BV)
BNC	BYPASS NORMALLY CLOSED (BNC)
	PLUG VALVE
	CHECK VALVE
	SHUT-OFF VALVE IN VERTICAL LINE
	BACKFLOW PREVENTER
M	WATER METER
WHA	WATER HAMMER ARRESTOR
	THERMOMETER
	T & P RELIEF VALVE
TMV	THERMOSTATIC MIXING VALVE
FD	FLOOR DRAIN
RD	ROOF DRAIN/OVERFLOW ROOF DRAIN
FS	FLOOR SINK
FCO	FLOOR CLEANOUT
YCO	YARD CLEANOUT
FPWH	FREEZE PROOF WALL HYDRANT
HB	HOSE BIBB
WCO	WALL CLEANOUT
	CONNECT TO EXISTING
ETR	EXISTING TO REMAIN
UNO	UNLESS NOTED OTHERWISE
WHA	WATER HAMMER ARRESTOR
VBF	VENT BELOW FLOOR
?	KEYNOTE CALLOUT SYMBOL (? = NUMBER)
?	PLUMBING FIXTURE CALLOUT SYMBOL

GENERAL NOTES

IF POST MIX IS INSTALLED A STAINLESS R.P.B.A. MUST BE USED OR WILKINS 375X1 WITH NO COPPER INSTALLED DOWNSTREAM OF R.P.B.A.

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PROJECT TEAM

ARCHITECTURAL/STRUCTURAL
FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
07/27/26	PERMIT SET
09/15/26	DEVIATION COMMENTS

PROFESSIONAL SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER 053741 RYAN E. WATERS
09/15/2026
COA:P-1359

PROFESSIONAL IN CHARGE
R. WATERS – PE

PROJECT MANAGER
AR

QUALITY CONTROL
RW

DRAWN BY
AN

PROJECT NAME

CIRCLE K STORES INC.
ERWIN
NORTH CAROLINA
NC 55 & E. JACKSON BLVD
28339

CIRCLE K STORES INC.

FREY MOSS STRUCTURE
1142 Willow Run Road
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Fax: (770) 483-6037

FMS JOB NUMBER
G2586

TN PLAN NUMBER
XXXXXX

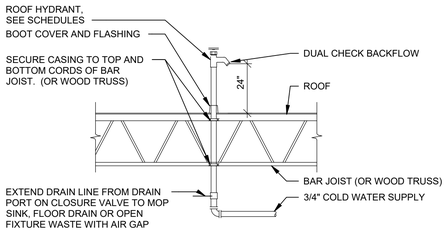
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SHEET TITLE

PLUMBING FLOOR PLAN-DOMESTIC WATER

SHEET NUMBER

P1.1.2



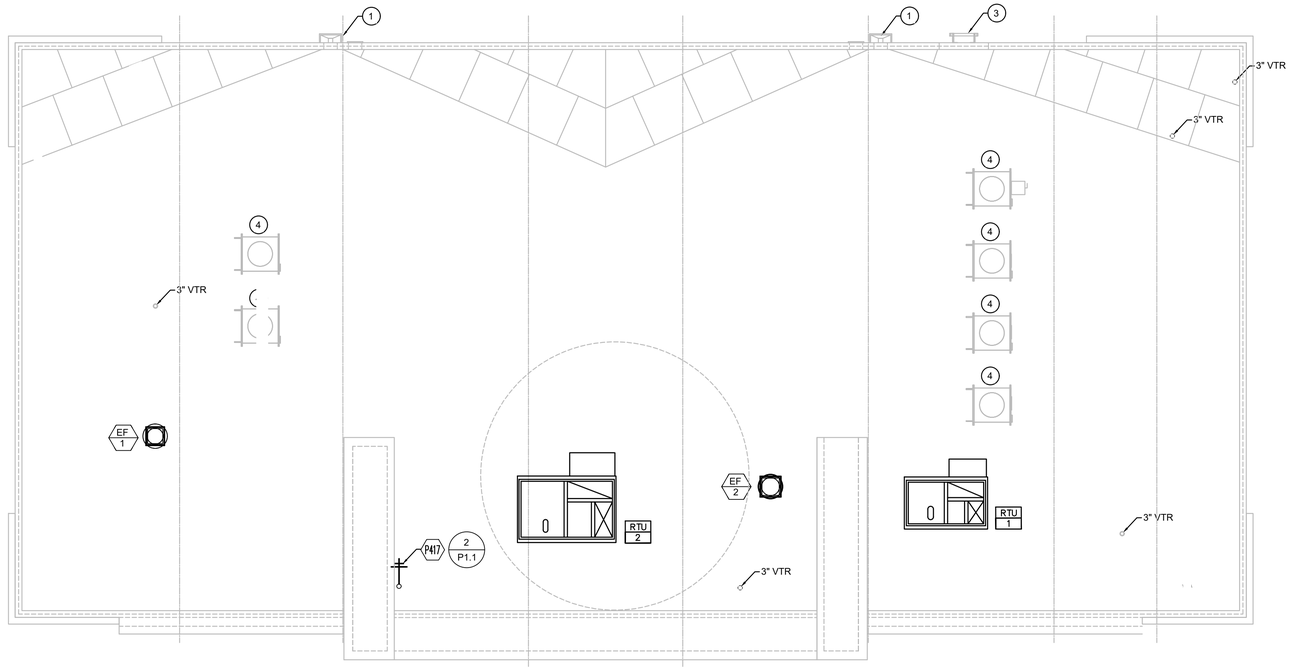
FREEZELESS ROOF HYDRANT | 2

N.T.S.

ROOF DRAIN CALCULATIONS

0.0104 = CONVERSION FACTOR - GPM/SQFT FOR 1"/HR RAINFALL.

AREA NAME	AREA (A1)	PARAPET AREA	1/2 PARAPET WALL AREA (A2)	RAIN FALL RATE (R IN INCHES)	GPM=0.0104 x R x (A1+A2), [EQ 11-1 IPC 1106.2.1]	2021 INTERNATIONAL PLUMBING CODE: MINIMUM VERTICAL PRIMARY DRAIN SIZE PER TABLE 1106.3
LEFT ROOF	2005 ft²	350 ft²	175 ft²	4	91	4"
RIGHT ROOF	2075 ft²	350 ft²	175 ft²	4	92	4"
	4080 ft²		350 ft²			



PLUMBING ROOF PLAN | 1

3/16" = 1'-0"

KEYNOTES

1 ROOF DRAINAGE WITH 4" LEADER. SEE DETAIL 9/A8.3. REFER TO ROOF DRAIN CALCULATION FOR SIZING INFO.

2 SATELLITE DISH LOCATION. REFERENCE THE ARCH ROOF PLAN FOR EXACT LOCATION.

3 ROOF ACCESS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

4 CONDENSING UNIT FOR REFRIGERATION EQUIPMENT BY VENDOR SHOWN FOR REFERENCE ONLY. INSTALLATION TO COMPLY WITH MFR'S AND LOCAL AHJ REQUIREMENTS.

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053741 RYAN E. WATERS
07/28/2026
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FMS JOB NUMBER
G25B6

FMS MODEL NUMBER
XXXXXX

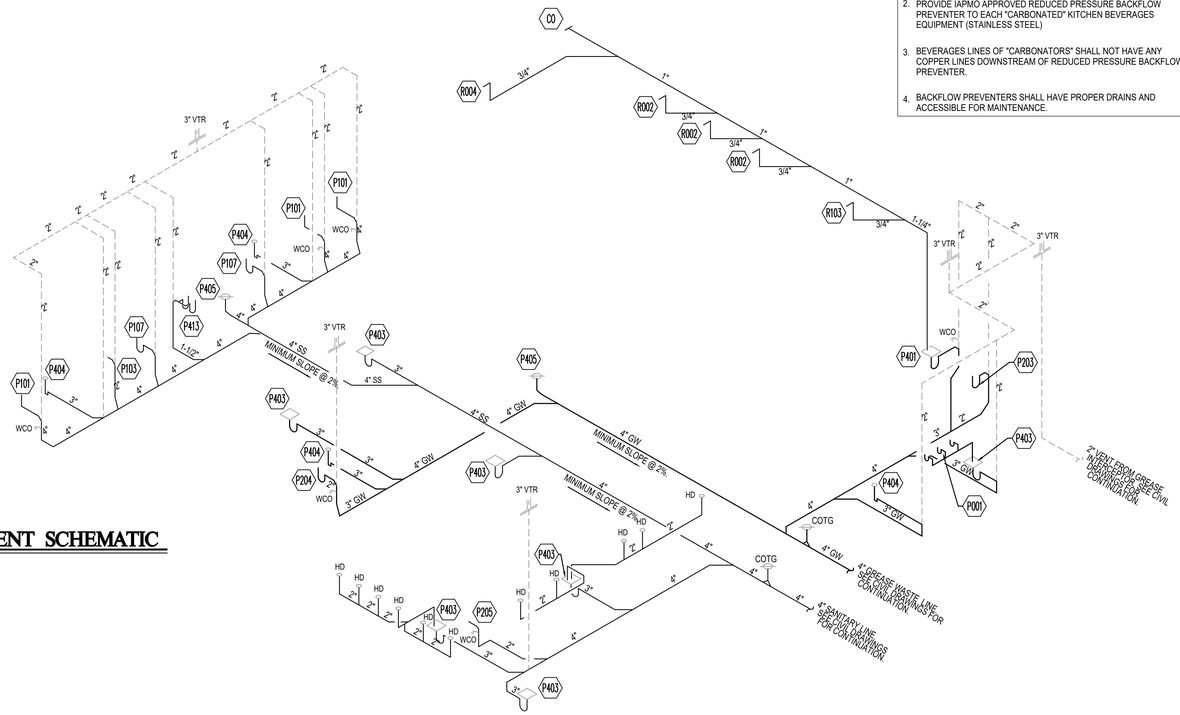
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SHEET TITLE
PLUMBING - ROOF PLAN

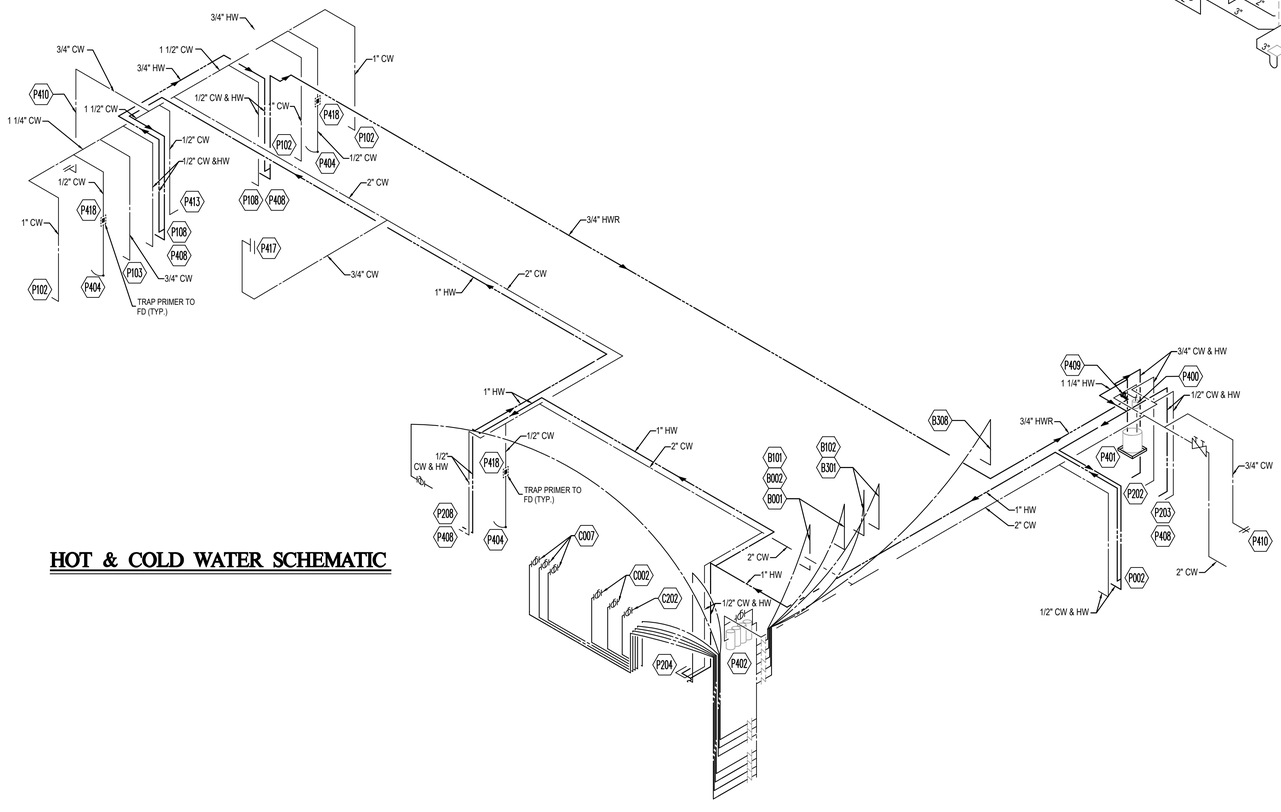
SHEET NUMBER
P1.1

KEYNOTES

1. PROVIDE IAPMO APPROVED BACKFLOW PREVENTER IN-LINE TO EACH "NON-CARBONATED" KITCHEN BEVERAGES EQUIPMENT.
2. PROVIDE IAPMO APPROVED REDUCED PRESSURE BACKFLOW PREVENTER TO EACH "CARBONATED" KITCHEN BEVERAGES EQUIPMENT (STAINLESS STEEL)
3. BEVERAGES LINES OF "CARBONATORS" SHALL NOT HAVE ANY COPPER LINES DOWNSTREAM OF REDUCED PRESSURE BACKFLOW PREVENTER.
4. BACKFLOW PREVENTERS SHALL HAVE PROPER DRAINS AND ACCESSIBLE FOR MAINTENANCE.



WASTE & VENT SCHEMATIC



HOT & COLD WATER SCHEMATIC

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07/27/26	PERMIT SET

PROFESSIONAL SEAL

NORTH CAROLINA PROFESSIONAL 053741 ENGINEER RYAN E. WATERS
07/28/2026
COA:P-1359

PROFESSIONAL IN CHARGE
R. WATERS - PE

PROJECT MANAGER
AR

QUALITY CONTROL
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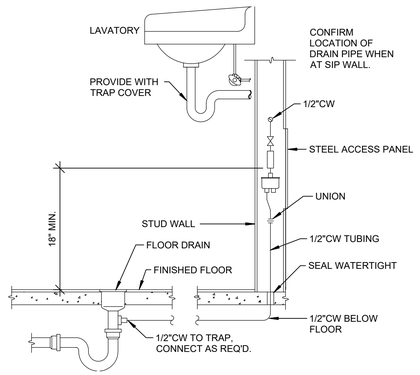
FMS JOB NUMBER
G25B6

FMS MODEL NUMBER
XXXXXX

PROJECT NUMBER
20260936.0

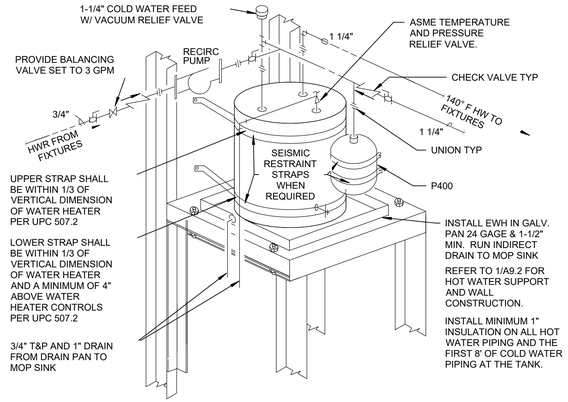
SHEET TITLE
PLUMBING SCHEMATICS

SHEET NUMBER
P1.2



TRAP PRIMER ASSEMBLY | 1

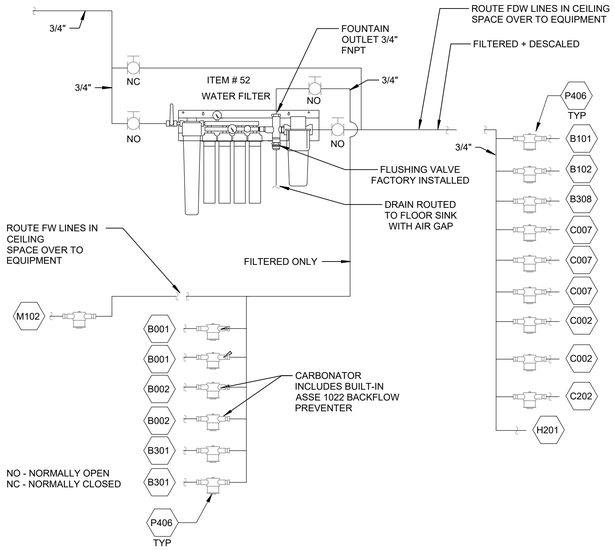
N.T.S.



REFER TO DETAIL 1 ON A9.2. IN THE ARCHITECTURAL DWG. FOR WATER HEATER SHELF DETAIL.

WALL MOUNTED WATER HEATER | 4

N.T.S.



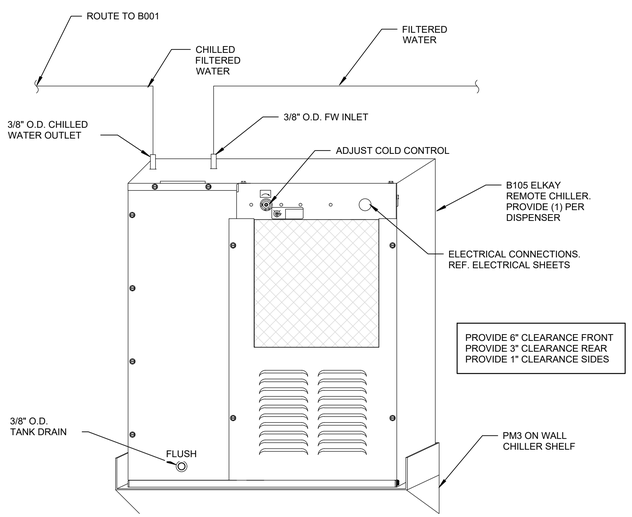
EVERPURE WATER FILTER SYSTEM | 2

N.T.S.



2-WAY CLEANOUT DIAGRAM | 5

N.T.S.



ELKAY IN-LINE CHILLER DETAIL | 3

N.T.S.

GENERAL NOTES

A. SLOPE SANITARY PIPING 2 1/2" AND SMALLER AND ALL GREASE WASTE PIPING AT 1/4" PER FOOT FALL. SLOPE SANITARY SEWER PIPING 3" TO 6" AT 1/8" PER FOOT FALL. COORDINATE BUILDING SEWER LOCATION AND INVERT ELEVATION WITH CIVIL DRAWINGS AND SITE CONDITIONS PRIOR TO CONSTRUCTION.
B. WORK SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES, LAWS, ACTS, ORDINANCES, REGULATIONS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
C. THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL THE APPLICABLE INDUSTRY STANDARDS OF GOOD PRACTICE, SAFETY, AND THE MANUFACTURERS STRICTEST RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND INSTALLATION.
D. THESE DRAWINGS ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL MAKE MODIFICATIONS INCLUDING OFFSETS, TURNS, AND RE-ROUTING REQUIRED TO COMPLETE THE INSTALLATION. DO NOT SCALE LOCATION OF EQUIPMENT OR PIPING.
E. COORDINATE ALL PLUMBING WORK, INCLUDING EQUIPMENT AND PIPING, WITH OTHER TRADES PRIOR TO WORK.
F. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING EQUIPMENT SO THAT NO INTERFERENCES ARE ENCOUNTERED WITH OTHER EQUIPMENT OR WITH STRUCTURAL ELEMENTS.
G. ALL PLUMBING WORK IS TO RUN IN A NEAT AND PROFESSIONAL MANNER, WITH THE AESTHETICS OF THE FACILITY OF PARAMOUNT IMPORTANCE. ALL ROUGH-IN WORK TO BE HIDDEN WITHIN WALLS AND ABOVE CEILING UNLESS OTHERWISE NOTED.
H. ALL WORK SHALL BE LOCATED TO AVOID CONFLICTS WITH OTHER TRADES. CLOSELY COORDINATE ALL WORK WITH ALL OTHER TRADES. FAILURE OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES SHALL RELIEVE THE OWNER FROM ANY ADDED COSTS.
I. THE CONTRACTOR SHALL DO ALL NECESSARY CUTTING OF WALLS AND CEILING. PATCH AROUND ALL OPENINGS TO MATCH EXISTING CONSTRUCTION. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT PERMISSION FROM THE ENGINEER.
J. VENT SIZES NOT SHOWN IN THE PLAN VIEW OR RISER VIEW SHALL BE 1 1/2".
K. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED BEFORE MAKING UP OR INSTALLATION OF NEW WASTE SYSTEM.

PFS CORPORATION
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State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MFG.	MODEL	ROUGH-IN SIZE CW	HW	FW	SAN	COUNT	TRIM/REMARKS
B001	FOUNTAIN DRINK DISPENSER	CORNELIUS	ENDURO 300	0"	0"	1/2"	3/4"	2	3/4" MAIN TRUNK LINE FROM FILTER TEE 1/2" LINE W/ BRASS BALL VALVE AND 3/8" FLARE FITTING TO EACH PIECE OF EQUIPMENT, TEE 1/2" LINE W/ BRASS BALL VALVE AND 3/8" FLARE FITTING TO EACH PIECE OF EQUIPMENT
B002	CARBONATOR FOR ED300	CORNELIUS	*4146424000	0"	0"	1/2"	0"	2	1/4" FLARE CO2 INLET, 3/8" FLARE WATER INLET, 3/8" FLARE SODA WATER OUTLET. TO BE INSTALLED ON SHELF ON TOP OF BIB RACK.
B101	19" FOLLETT REMOTE CHEWBLET ICE ICE MAKER (1800LB)	FOLLETT	HCD1810RHT	0"	0"	3/8"	0"	1	<MOPD 15A>3/8" WATER LINE FROM SCALE INHIBITOR; 1/2"DRAIN LINE
B102	30" MANITOWOC REMOTE ICE MAKER (1825LB)	MANITOWOC	IYF-1800C-161	0"	0"	3/8"	3/4"	1	<MOPD 15A>3/8" WATER LINE FROM SCALE INHIBITOR; 1/2"DRAIN LINE
WCO	WALL CLEAN OUT	JR SMITH	4472 OR EQUAL						24" ABOVE THE FLOOR
B301	FOUR BARREL COUNTERTOP FCB PACKAGE - STANDARD	CORNELIUS	VIPER ELITE-4B	0"	0"	1/2"	0"	2	<208-240/3PH-MCA:20A / MOCP25A>RUN CONTROL WIRE FROM ICE MAKER TO CONDENSER - SOLENOID SHOULD BE MOUNTED AT THE CONDENSER
B308	BLENDING BAR	F'REAL	FRLB-6-BLENDING BAR	0"	0"	1/2"	3/4"	1	
B505	LEG SHROUD FOR ENDURO300 FOUNTAIN	FOOD CONCEPTS	CK-FTN-ENDUROSHRD	0"	0"	0"	0"	2	
B603	3 WIDE BIB RACK PACKAGE	CORNELIUS	3BIFJ	0"	0"	0"	0"	3	FOUNTAIN RACKS ARE PREASSEMBLED WITH SHELF AND PUMPS ALREADY MOUNTED. FCB AND OTHER REQUIRE ASSEMBLY AND PUMPS TO BE PROVIDED AND/OR MOUNTED BY CONTRACTOR
C002	5-HD CAPPUCCINO	WILBUR CURTIS	PCGT5	0"	0"	1/2"	0"	2	3/4" MAIN TRUNK LINE FROM FILTER TO COFFEE BAR, TEE 1/2" LINE W/ BRASS BALL VALVE AND 1/4" FLARE FITTING TO EACH PIECE OF EQUIPMENT; SINGLE OUTLET
C003	BEAN TO CUP COFFEE WATER FILTER	SCHAERER	HF40-S	0"	0"	1/2"	0"	5	ONE PER SET OF (3) BEAN TO CUP BREWERS
C007	3-HOPPER BEAN TO CUP BREWER	SCHAERER	1341170001	0"	0"	1/2"	0"	3	SCHAERER CHECKLIST MUST BE COMPLETE - L6-20R 250VAC, 20AMP, 1 PHASE, RANGE 208-240V, 20AMP BREAKER, 3" HOLE PER BREWER, 3/8" COMPRESSION SHUTOFF, 30-60PSI PRESSURE; HUB, WATER AND POWER 36" FROM MACHINE LOCATION
C202	ICE AND WATER DISPENSER	FOLLETT	15CI100A-NW-NF-ST-00 - 15 SERIES CHEWBLET ICE MACHINE AND WATER DISPENSER	0"	0"	1/4"	0"	1	
H201	ELECTRIC COMBI OVEN	UNOX	XAVC-0511-EPR	0"	0"	1/2"	1-1/4"	1	OVEN REQUIRES FILTERED AND DESCALED WATER.
HD	PVC HUB DRAIN	---	---					6	SIZING PER P1.1.1
P001	3-COMPARTMENT SINK W/ (2) 18" DRAIN BOARDS	ADVANCE TABCO	9-3-54-18RL	1/2"	1/2"	0"	2"	1	PROVIDE W/ PRE-RINSE, OVERFLOW AND ADAPTA FAUCET; PLUMBING HOOK-UP BY GC
P002	PRE-RINSE UNIT W/ FAUCET	KROWNE	17-109W	1/2"	1/2"	0"	0"	1	WALL MOUNT, BASE FAUCET, 6" WALL BRACKET
P101	TOILET	AMERICAN STANDARD	3043.001	1"	0"	0"	4"	3	TOILET SEAT #5901.100, WAX RING, AND CLOSET BOLTS TO BE PROVIDED WITH TOILET
P102	TOILET FLUSH VALVE - AUTOMATIC HARDWIRED	SLOAN	SLOAN 111 ESS-1.28-TMO-HW	1"	0"	0"	4"	3	TOILET SEAT #5901.100, WAX RING, AND CLOSET BOLTS TO BE PROVIDED WITH TOILET
P103	URINAL	AMERICAN STANDARD	6590.001	3/4"	0"	0"	2"	1	WALL BRACKET SUPPORT SET AT ELEV. TO MEET ADA
P104	URINAL FLUSH VALVE- AUTOMATIC HARDWIRED	SLOAN	SLOAN 186 ESS-0.5-TMO-HW	3/4"	0"	0"	2"	1	
P107	WALL MOUNTED LAVATORY	AMERICAN STANDARD	LUCERN-0356.041	1/2"	1/2"	0"	2"	2	FAUCET: P108. GRID STRAINER WITH TAILPIECE, P-TRAP WITH CLEANOUT, STOP VALVES, SS BRAIDED WATER SUPPLIES AND ESCUTCHEONS. CARRIER: JOSAM 17100, WADE W-520. LAVATORY ENCLOSURE: TRUEBRO LAV-SHIELD 2018. PROVIDE P408.
P108	HAND SINK FAUCET - AUTOMATIC HARDWIRED	SLOAN	SF-2400	3/8"	3/8"	0"	0"	2	HARDWIRED; FULL MODEL NUMBER SF-2400-4-PLG-TEE-CP-0.5GPM-MLM-IR-FCT PROVIDE P408.
P201	MOP SINK	MUSTEE	63M	0"	0"	0"	3"	1	AMERICAN STANDARD #8344.012 WALL MOUNT FAUCET TOP BRACE, VACUUM BREAKER, STOPS
P202	MOP SINK FAUCET	AMERICAN STANDARD	8344.012	3/4"	3/4"	0"	3"	1	AMERICAN STANDARD #8344.012 WALL MOUNT FAUCET TOP BRACE, VACUUM BREAKER, STOPS
P203	WALL MOUNTED HAND SINK	ADVANCE TABCO	7-PS-60	1/2"	1/2"	0"	1-1/2"	1	INCLUDES FAUCET. PROVIDE P408.
P204	DROP-IN HAND SINK	ELKAY OR EQUAL	K11515	1/2"	1/2"	0"	2"	2	FAUCET: P205. PROVIDE P-TRAP AND P408. SINK AND FAUCET SUPPLIED WITH ROYSTON CABINETS
P205	GOOSENECK FAUCET FOR DROP IN HAND SINK	CHICAGO FAUCETS	895-317CP	3/8"	3/8"	0"	2"	2	FOR USE WITH P204. SINK AND FAUCET SUPPLIED WITH ROYSTON CABINETS
P400	FIXED BLADDER EXPANSION TANK	AMTROL FLEXCON WATTS WILKINS	ST-12 WH-18 PLT-12 XT-18	1-1/4"	0"	0"	0"	1	4.4 GALLON MINIMUM TOTAL CAPACITY, FACTORY STANDARD PRECHARGE CAPACITY.
P401	ELECTRIC WATER HEATER	A.O. SMITH	DRE-52-24	1-1/4"	1-1/4"	0"	0"	1	3/4" T & P RELIEF VALVE. 52 GAL STORAGE. ELECTRICAL, 24 KW, 208V, 3PH. SPECS WILL VARY PER ARCHITECTS PLUMBING SCHEDULE - PLEASE SEE MANUFACTURER DATA FOR ELECTRICAL AND /OR GAS SPECS
P402	WATER FILTER	EVERPURE	EV9437-10	3/4"		3/4"	3/4"	1	1/2" NPT CONNECTION, PROVIDED BY FACILITIES
P403	FLOOR SINK	ZURN	Z1901					5	1/2 GRATE WITH 12"X12" (6" DEEP) PORCELAIN SEDIMENT BUCKET
P404	FLOOR DRAIN W/ TRAP PRIMER	WADE	1002-STD6.1					4	SATIN NICKEL STRAINER
P405	FLOOR CLEANOUT	J.R. SMITH	4100 SERIES					4	ADJUSTABLE FLOOR CLEANOUT, 5 IN ROUND NICKEL BRONZE TOP, 4 IN PIPE, GAS TIGHT GASKETED BRASS PLUG, NO HUB OUTLET, MD LOAD RATING. TWIST TO FLOOR ADJUSTMENT
P406	BACKFLOW PREVENTER-INLINE BEVERAGE CHECK VALVE	WATTS	SD-3	3/8"				16	STAINLESS STEEL BODY CONSTRUCTION WITH INTERNAL RUBBER COMPONENTS AND IS DESIGNED FOR CONTINUOUS OR INTERMITTENT PRESSURE APPLICATIONS. WITH A WYE PATTERN STRAINER. MAXIMUM WORKING PRESSURE: 150PSI (10 BAR)
P407	1/4 TURN BRASS SHUTOFF VALVE	FNW OR EQUAL	VARIES						1/4 TURN BRASS BALL VALVE REQUIRED FOR ALL SHUTOFFS - SIZE AND TYPE WILL VARY FOR APPLICATION, USE LEAD FREE IN INSULATIONS THAT WHERE WATER IS ATTACHED TO BEVERAGE EQUIPMENT OR DRINKING FOUNTAINS. SIZE VARIES.
P408	THERMOSTATIC MIXING VALVE	ZURN	ZW1017XL	3/4"	3/4"			7	PROVIDE ASSE 1070 CERTIFIED MIXING VALVE SET TO 110°F AT ALL HAND SINKS PER AHJ
P409	RECIRCULATION PUMP	TACO	T003-BC4	3/4"	3/4"	0"	0"	1	3 GPM HP: 1/40, 3/4" FLANGED CONNECTIONS
P410	ENCASED STANDARD HOSE BIBB	MIFAB	MHY-35	3/4"				2	NON-FREEZE ANTI-SIPHON VACUUM BREAKER PROTECTED. VANDAL RESISTANT VACUUM BREAKER.
P412	RECESSED GREASE TRAP	JENSEN PRECAST	JP1000G					1	OR EQUIVALENT MAKE/MODEL. INTERCEPTOR DESIGN AND INSTALLATION SHALL COMPLY WITH LOCAL AHJ REQUIREMENTS. PROVIDE SAMPLING PORT AS REQUIRED BY AHJ. PROVIDE WITH H20 TRAFFIC RATED INSTALLATION.
P413	DRINKING FOUNTAIN	OASIS	PG8ACSLTM	3/8"	0"	0"	1-1/4"	1	ONLY INSTALL IF REQUIRED BY AHJ.
P417	FREEZELESS ROOF HYDRANT	WOODFORD	RHY2-MS	3/4"				1	PROVIDE MOUNTING SYSTEM AND DRAIN. ROUTE 1/8" DRAIN LINE TO NEAREST APPROVED DRAIN WITH AIR GAP. HYDRANT TO BE PROVIDED WITH A DOUBLE CHECK BACKFLOW PREVENTER.
P418	TRAP PRIMER	SIOUX CHIEF	SERIES 695	1/2"				4	OR APPROVED EQUIVALENT. AMOUNTS AS REQUIRED
R002	WALK-IN COOLER-EVAPORATOR	HTPG-RUSSELL DOE	RL6A141DDARE				3/4"	3	R404 REFRIGERANT - PAGE 15 OF QUOTE
R003	WALK IN COOLER- REMOTE CONDENSER	HTPG-RUSSELL DOE	RFO4004SEAALNT				3/4"	1	R404 REFRIGERANT, 45AMP MOPD - DISCONNECT ATTACHED TO CONDENSER RACK
R004	COLD VAULT -EVAPORATOR	HTPG-RUSSELL DOE	RE6A204DDARE				3/4"	1	R404 REFRIGERANT - PAGE 15 OF QUOTE
R005	COLD VAULT -REMOTE CONDENSER	HTPG-RUSSELL DOE	RFO300E4SEAALNT				3/4"	1	R404 REFRIGERANT, 45AMP MOPD - DISCONNECT ATTACHED TO CONDENSER RACK
R103	WALK-IN FREEZER -EVAPORATOR	HTPG-RUSSELL DOE	RL6E077DDARE				3/4"	1	R404 REFRIGERATION VENDOR DRAWINGS
R309	ISLAND FRESH CASE - 4'X11'	SOUTHERN CASE ARTS	11.2-MDI-3M2P-R				3/4"	1	1.24A FOR LIGHTS, 1.70A FOR FANS-HARDWIRED
R310	REMOTE CONDENSER FOR SOUTHERN FRESH CASE	BOHN	CH0035MCACZ				3/4"	1	COMES WITH BOTH ISLAND FROM SOUTHERN CASE ARTS, MOPD 30AMPS, R404 REFIGERANT, 7/8 SUCTION LINE, 1/2 LIQUID LINE

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PROJECT TEAM

ARCHITECTURAL/STRUCTURAL
FREY MOSS STRUCTURE

MEP
GREENBERGFARROW

ISSUE/REVISION RECORD

DATE	DESCRIPTION
07/27/26	PERMIT SET

PROFESSIONAL SEAL

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07/28/2026
COA:P-1359

PROFESSIONAL IN CHARGE
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FMS JOB NUMBER
G25B6

FMS MODEL NUMBER
XXXXXX

PROJECT NUMBER
20260936.0

SHEET TITLE

PLUMBING-SCHEDULES AND DETAILS

SHEET NUMBER

P1.3

SECTION	PLUMBING SPECIFICATIONS
15010 BASIC MECHANICAL REQUIREMENTS	1. ALL WORK TO BE DONE AND MATERIALS FURNISHED COMPLYING WITH APPLICABLE LAWS AND REGULATIONS, INCLUDING THE STATE OF NORTH CAROLINE MECHANICAL, FIRE SAFETY CODES. OBTAIN AND PAY FOR REQUIRED PERMITS AND FEES. 2. ALL MATERIALS USED SHALL BE NEW AND UNDAMAGED. 3. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH CURRENT CONSTRUCTION INDUSTRY STANDARDS AND WORKMANSHIP. 4. FURNISH SHOP DRAWINGS TO ARCH/ENGINEER FOR APPROVAL PRIOR TO PLACING DELIVERY ORDERS. PROVIDE SHOP DRAWINGS OF ALL MANUFACTURED EQUIPMENT AND MATERIALS EXCEPT PIPE, PIPE FITTINGS AND GALVANIZED DUCTWORK. 5. FURNISH ACCESS DOORS (RATED OR NON-RATED AS REQUIRED) WHERE VALVES OR EQUIPMENT ARE CONCEALED BEHIND A NON ACCESSIBLE CEILING OR WALL. FURNISH ACCESS DOORS TO GENERAL CONTRACTOR FOR INSTALLATION. 6. FURNISH STEEL PIPE SLEEVES WHERE PIPES PENETRATE RATED WALLS. PROVIDE FIRESTOPPING MATERIALS AND SYSTEM TO MAINTAIN THE REQUIRED RATING OF THE WALL PENETRATED. PROVIDE SHOP DRAWINGS SHOWING LISTING AND RATING OF FIRESTOPPING MATERIALS. 7. ALL MANUFACTURED EQUIPMENT, ACCESSORIES AND MATERIALS SHALL BE USED AS INTENDED BY THE MANUFACTURER IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS. 8. CONTRACTOR SHALL PROVIDE IN ADDITION TO ANY OTHER WARRANTIES SPECIFIED, A ONE YEAR FULL LABOR AND MATERIAL WARRANTY ON ALL WORKMANSHIP, MATERIAL AND EQUIPMENT FURNISHED FOR THIS PROJECT. 9. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL OPENINGS AND REQUIRED LINTELS NEEDED FOR THE GENERAL CONTRACTOR FOR THE INSTALLATION OF MECHANICAL EQUIPMENT. 10. SAWCUTS, LINTELS, HEADERS, AND STRUCTURAL MODIFICATIONS TO THE BUILDING STRUCTURE NEEDED FOR THE INSTALLATION OF MECHANICAL EQUIPMENT SHALL BE APPROVED BY THE GENERAL CONTRACTOR, BEFORE INSTALLATION. 11. IN GENERAL, OPENINGS AND REQUIRED LINTELS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILS AND TEMPLATES OF ALL OPENINGS NECESSARY FOR MECHANICAL EQUIPMENT INSTALLATION INCLUDING: HOUSING, ACCESS DOORS, INSPECTION DOORS, AND PASSAGEWAYS FOR MECHANICAL EQUIPMENT. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR SEALING CRACKS AND FINISHING ROUGH EDGES LEFT FOLLOWING MECHANICAL INSTALLATION. 12. APPROVAL EQUALS: PLUMBING ITEMS MANUFACTURED BY A COMPANY OTHER THAN THAT WHICH WAS SPECIFIED IN THE SCHEDULE MAY BE SUBSTITUDED BY APPROVED SHOP DRAWINGS CONTIGENT UPON MEETING THE DESIGN, APPEARANCE, AND FUNCTIONAL STANDARDS ESTABLISHED BY THE ORIGINALLY SPECIFIED ITEM(S). THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS, CLEARANCES, ASSEMBLY, FIT, ETC. OF THE APPROVED EQUAL(S), AND THEIR AFFECT ON OTHER EQUIPMENT FIT AND OPERATION. THE CONTRACTOR IS LIABLE FOR ANY ADDED COSTS TO HIMSELF OR OTHERS CAUSED BY THE APPROVED EQUALS.

SECTION	PLUMBING SPECIFICATIONS
15100 VALVES	1. BALL VALVES SHALL BE CLASS 125 FOR WATER WITH ENDS AND MATERIALS TO MATCH PIPING SYSTEMS. 2. BALL VALVES 2" AND SMALLER SHALL HAVE BRONZE BODY, STAINLESS STEEL BALL, TEFLON SEATS, AND STUFFING BOX RING, LEVER HANDLE AND BALANCING STOPS, ENDS TO MATCH PIPING SYSTEM.
15140 SUPPORTS & ANCHORS	1. FURNISH PIPE AND DUCT HANGERS, WHERE REQUIRED, FIRMLY SUPPORTED FROM BUILDING STEEL, CONCRETE OR MASONRY STRUCTURE. SUPPORT PIPING SYSTEMES SECURELY WHILE ALLOWING FOR PIPE AND BUILDING EXPANSION AND CONTRACTION. PROVIDE COPPER PLATED HANGERS, FOR COPPER PIPE. USE ADJUSTABLE CLEVIS HANGERS OR ADJUSTABLE STEEL BAND HANGERS. MAXIMUM SPACING SHALL BE 5' FOR 1/2" PIPING, 7' FOR 3/4" TO 1/4" PIPING, 9' FOR 1-1/2" TO 2" PIPING. FURNISH PLUMBING EQUIPMENT SUPPORTS AS DETAILED OR AS REQUIRED TO SAFELY AND PERMANENTLY CARRY THE WEIGHT OF THE EQUIPMENT.
15250 PLUMBING INSULATION	1. INSULATE ABOVE FLOOR WATER PIPING WITH ELASTOMERIC PLACTIC PERFORMED PIPE INSULATION WITHOUT JACKETING. ALL INSULATING MATERIALS TO HAVE FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPMENT RATING OF 50 OR LESS AS TESTED BY ANSI/ASTM E 84 (NFPA 233) METHOD. INSULATE ALL PIPING WITH SURFACE TEMPERATURES BELOW 75 DEGREE F WITH 1/2" INSULATION. INSULATE ALL PIPING WITH SURFACE TEMPERATURES 75 DEGREES F AND HIGHER WITH 1" THICK INSULATION. INSTALL MINIMUM 1" INSULATION ON ALL HOT WATER PIPING AND THE FIRST 8' OF COLD WATER PIPING AT THE TANK. JOINTS IN INSULATION SHALL BE GLUED, NOT TAPED. WHERE PIPES ARE EXPOSED AND LESS THAN 8' ABOVE FLOOR, PROVIDE HEAVY DUTY METAL JACKETING OVER INSULATION. INSULATE ABOVE FLOOR HORIZONTAL STORM PIPING WITH 1" FIBERGLASS PERFORMED PIPE INSULATION WITH FACTORY APPLIED ALL PURPOSE COVER.
15411 WATER DISTRIBUTION SYSTEM	1. ABOVE GRADE: WATER PIPING SHALL BE CROSSLINKED PE (PEX) TUBING: PEX TUBE SHALL BE TESTED AND CERTIFIED FOR POTABLE WATER SYSTEMS, AND SHALL COMPLY WITH ANSI/NSF STANDARD 14, ANSI/NSF STANDARD 61, AND ASTM F876 AND/OR ASTM F877. TUBE SHALL BE LABELED WITH THE ABOVE CERTIFICATIONS. PROVIDE PEX TUBING SYSTEM BY ONE OF THE FOLLOWING: UPONOR, OR APPROVED PEX ALTERNATIVE. FITTINGS AND CONNECTORS SHALL BE BY THE SAME MANUFACTURER AND ASSEMBLED WITH THE MANUFACTURER 'S APPROVED TOOLS. THE SAME CONNECTION METHOD SHALL BE USED THROUGHOUT THE INSTALLATION. a. AT CONTRACTOR'S OPTION, IN LIEU OF PEX PIPING SYSTEM AS SPECIFIED ABOVE TYPE L COPPER ASTM B 75, ASTM B 88, ASTM 251, ASTM B 447 WITH WROUGHT COPPER SOLDER-JOINT FITTINGS ASME B 16. 2. BELOW GRADE: WATER PIPING SHALL BE PEX PIPING SYSTEM IN COMPLIANCE WITH THE UPONOR PLUMBING DESIGN ASSISTANCE MANUAL (PDAM), CURRENT EDITION AND THE UPONOR PIPING SYSTEMS INSTALLATION GUIDE, CURRENT EDITION (OR APPROVED ALTERNATIVE). CROSSLINKED PE (PEX) TUBING, ASTM F876 WITHOUT JOINTS BENEATH THE SLAB. a. AT CONTRACTOR'S OPTION, IN LIEU OF PEX PIPING TYPE K COPPER WITH WROUGHT COPPER SOLDER-JOINT FITTINGS. SOLDER SHALL BE 9596-396 TIN-ANTIMONY ANSI/ASTM B 32 FOR HEATING SYSTEM PIPING. 3. THOROUGHLY FLUSH AND CLEAN ALL NEW AND EXISTING WATER PIPING SYSTEMS. TEST ALL PIPING SYSTEMS PER REGULATIONS IN ITEM NO.1 OR AT 225 PSI FOR A MINIMUM OF 2 HOURS WITH NO PRESSURE DROP INDICATED PRIOR TO INSULATING. 4. STERILIZE ALL DOMESTIC WATER PIPING PRE REQUIREMENTS OF LOCAL HEALTH DEPARTMENT.
15420 DRAINAGE & VENT SYSTEMS	1. WITHIN BUILDING, SCHEDULE 40 PVC, DWV TYPE PIPE AND SOLVENT WELDED PIPE FITTINGS, SCHEDULE 30 PVC PIPE MAY BE USED FOR VENT PIPING WHERE PERMITTED BY CODE. HORIZONTAL PIPE SHALL BE SUPPORTED BY ADJUSTABLE RING HANGERS EQUAL TO ITT-GRINNEL FIG. 97. VERTICAL PIPING SHALL BE SUPPORTED AT EACH FLOOR OR ATTIC LEVEL BY RISER. INSTALL UNDERGROUND PVC PIPE ACCORDING TO ASTM D2321.
15440 PLUMBING FIXTURES	1. PROVIDE AIR CHAMBERS AT EACH FIXTURE CONNECTION. AIR CHAMBERS SHALL BE ONE SIZE LARGER THAN SUPPLY PIPE AND SHALL BE 12" LONG. WHERE REQUIRED BY PLUMBING CODE, FURNISH AND INSTALL MANUFACTURED WATER HAMMER ARRESTORS. 2. PLUMBING FIXTURES SHALL BE INSTALLED WHERE SHOWN ON THE ARCHITECTURAL DRAWINGS. INSTALL FIXTURES LEVEL AND PLUMB. FURNISH TRAPS WHERE REQUIRED. FIXTURES SHALL BE EASILY REMOVABLE FOR SERVICE AND CLEANING. 3. PROVIDE CHROME PLATED RIGID OR FLEXIBLE SUPPLIES TO FIXTURES WITH STOP VALVES, CHROME PLATED 17 GAUGE BRASS TRAPS WITH CHROME PLATED ESCUTCHEONS. 4. SEAL ALL FIXTURES TO WALL AND FLOOR USING SILICONE SEALANT. MATCH SEALANT COLOR TO FIXTURE COLOR. 5. FIXTURES DESIGNATED BARRIER FREE SHALL BE INSTALLED IN COMPLIANCE WITH AMERICAN'S WITH DISABILITIES ACT. 6. ALL CLEANOUT COVERS TO BE STAINLESS STEEL.

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Signature: Rahul Bajaj
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ISSUE/REVISION RECORD

DATE	DESCRIPTION
07/27/26	PERMIT SET
⚠1 09/15/26	DEVIATION COMMENTS

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FMS JOB NUMBER
G25B6

TN PLAN NUMBER
XXXXXX

PROJECT NUMBER
20260065.0

SHEET TITLE
PLUMBING - SPECIFICATIONS

SHEET NUMBER
P1.4

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FREY-MOSS STRUCTURES	JOB NO:	G25B6
CIRCLE-K STORES INC.	CALC BY:	G.G.
43'-8" x 92'-7" MODULAR BUILDING	DATE:	2/05/2026

REVISED BY: G.G. REVISION DATE: 8/11/2026

STRUCTURAL CALCULATIONS

DESIGN LOADS

ROOF LIVE LOAD =	20	psf (10 psf Ground Snow Load)
ROOF DEAD LOAD =	12	psf
FLOOR LIVE LOAD =	100	psf
FLOOR DEAD LOAD =	30	psf
WIND SPEED Vult =	120	mph - Vasd = 93 mph
EXPOSURE =	C	
SEISMIC CLASS =	D	
SEISMIC DESIGN CATEGORY =	C	

C.H. MOSS, P.E.
P.O. BOX 28
COVINGTON, GA 30015

NORTH CAROLINA PROFESSIONAL SEAL 11066 ENGINEER CHARLES H. MOSS

8-11-26

STRUCTURAL MATERIAL

STRUCTURAL STEEL ASTM A-36-14 Fy = 36 ksi
W-SHAPE STEEL ASTM A-992-11 Fy = 50 ksi
TUBULAR STEEL ASTM A-500-18 GRADE B Fy = 46 ksi
ROOF DECK ASTM A-653-15 Fy = 50 ksi
BOLTS ASTM A-307-14 Ft = 20 ksi Fv = 10 ksi
ANCHOR BOLTS A-307 -14 Fu = 58 ksi

REFERENCES

MANUAL OF STEEL CONSTRUCTION AISC (ASD) 15th Edition
INCLUDING - AISI/AISC 360-16
SPECIFICATION FOR THE DESIGN OF COLD-FORMED
STEEL MEMBERS - AISI S100-16
2015 INTERNATIONAL BUILDING CODE
MIN. DESIGN LOADS FOR BLDGS.., ASCE 7-10
2018 NORTH CAROLINA BUILDING CODE

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Date: 09/16/2026

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CIRCLE-K STORES INC.	CALC BY:	G.G.
43'-8" x 92'-7" MODULAR BUILDING	DATE:	2/05/2026

Summary of Members

ROOF DECK:
22 ga B-Deck with #10 teks or hilti shots @ 12" O/C

ROOF JOISTS:
Use C 5 x 6.7 with 1" long 3/16" fillet weld top and bottom of member

ROOF CHANNELS:
MC 10 x 28.5
W/(2) 5/8" A307 BOLTS TO COLUMN

FLOOR DECK:
Use 22 GA B-Deck
W/ 2" LWC ON TOP
Fasten with #10 teks or hilti shots @ 12" O/C

FLOOR JOISTS TYP.
Use W6 x 9 with 2" long 3/16" fillet weld top and bottom of channel

FLOOR JOISTS AT 7'-8" AND 6'-2" WIDE MODULES
Use C6 x 8.2 with 2" long 3/16" fillet weld top and bottom of channel
IN LIEU OF CHANNELS, USE W6x9

END JOISTS:
Use C5 x 6.7 with 2" long 3/16" fillet weld top and bottom of channel
W/ L 4 x 3 x 1/4 LLV welded to top flange

COLUMNS: HSS 3 x 3 x 3/16

CROSS-BRACING: 4" WIDE x 14 GAUGE CFS STRAP BRACE
8" TOTAL WELD, 4" AT END AND RETURN 2" EA. SIDE

WALL PANEL FASTENING:
SHORT DIRECTION:
Fasten Ribs with #10 teks @ 22" O/C Max.
LONG DIRECTION:
Fasten Ribs with #10 teks @ 60" O/C Max.

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FREY-MOSS STRUCTURES
CIRCLE-K STORES INC.
43'-8" x 92'-7" MODULAR BUILDING

JOB NO:	G25B6
CALC BY:	G.G.
DATE:	2/05/2026

ROOF DECK CALCULATION

LL= **20.0** psf
DL= **12.0** psf
TL= **32.0** psf

L = **4.50** ft

Mmax = **1.29** in-kips

ALLOWABLE STRESS, Fb = 50 ksi X 0.6 = 30 ksi

fb= **7.65** ksi < 30 ksi OK

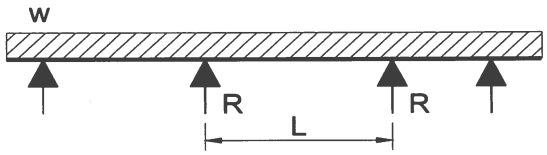
ALLOWABLE DEFL,.L/240 = **0.225** in

DEFL. = **0.014** in

MIN. ROOF SLOPE 0.25/12 PONDING NOT AN ISSUE

USE: **22 ga** B-DECK
see next page for panel properties.

PARTIAL DECK SCHEMATIC SHOWING LONGEST SPAN



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FREY-MOSS STRUCTURES

CIRCLE-K STORES INC.

43'-8" x 92'-7" MODULAR BUILDING

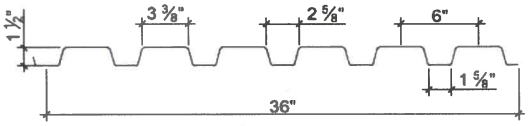
JOB NO:	G25B6
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DATE:	2/05/2026

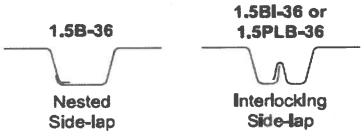
1.5B ROOF DECKS

- 1.5B-36 Deck used with Side-lap Screws
- 1.5BI-36 Deck used with TSWs or BPs
- 1.5PLB-36 Deck used with PunchLok® II System



Nominal Dimensions





Section Properties

Deck Gage	Deck Weight w_{dd} (psf)	Base Metal Thickness t (in.)	Yield Strength F_y (ksi)	Effective Moment of Inertia at Service Load $I_d = (2I_e+I_g)/3$ I_d+ (in⁴/ft)	I_d- (in⁴/ft)	Effective Section Modulus at F_y = 50 ksi S_e+ (in³/ft)	S_e- (in³/ft)	Allowable Moment M_n+/Ω (lb-ft/ft)	M_n-/Ω (lb-ft/ft)	Vertical Web Shear V_n/Ω (lb/ft)
22	1.6	0.0295	50	0.155	0.178	0.169	0.179	422	447	2654
20	2.0	0.0358	50	0.197	0.217	0.224	0.229	559	571	3207
19	2.3	0.0418	50	0.239	0.257	0.266	0.278	663	693	3728
18	2.6	0.0474	50	0.277	0.290	0.306	0.318	763	793	4209
16	3.3	0.0598	50	0.364	0.367	0.393	0.402	981	1003	5261

Allowable Reactions at Supports Based on Web Crippling, R_n/Ω (lb/ft)

Deck Gage	Bearing Length of Webs: One-Flange Loading, End Bearing 1½"	2"	3"	4"	Interior Bearing 3"	4"	Two-Flange Loading, End Bearing 1½"	2"	3"	4"	Interior Bearing 3"	4"
22	807	887	1021	1115	1482	1602	842	908	1017	1093	1834	1994
20	1153	1263	1448	1574	2127	2289	1274	1368	1525	1632	2662	2881
19	1532	1674	1913	2071	2839	3043	1766	1891	2100	2239	3579	3859
18	1931	2105	2398	2588	3586	3831	2297	2454	2716	2887	4546	4884
16	2958	3212	3639	3900	5517	5855	3713	3950	4347	4590	7050	7523

Standard Features

- ASTM A653 SS GR50 Min., with G60 or G90, white or gray primer optional
- ASTM A1008 SS GR50 Min. with gray primer
- Standard lengths – 6'-0" to 42'-0"
- IAPMO UES ER-0652, UL, and FM Listed
- Tables conform to ANSI/SDI RD-2017

Optional Features

- Inquire regarding cost and lead times for:
  - -Short cuts < 6'-0"
  - -Sheet Lengths > 42'-0"
  - -Alternative metallic and painted finishes
- Web Perforated Acoustical Versions

NUCOR

PFS CORPORATION

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Signature: Rahul Bafna

Title: Staff Plan Reviewer

Date: 09/16/2026

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FREY-MOSS STRUCTURES	JOB NO:	G25B6
CIRCLE-K STORES INC.	CALC BY:	G.G.
43'-8" x 92'-7" MODULAR BUILDING	DATE:	2/05/2026

ROOF JOISTS

ROOF JOIST, RJ1

roof dead load = 12 psf
roof live load = 20 psf

Maximum L= 13.83 ft

beam carries 4.0 ft tributary width (TW)

w = 128 # / ft

span defl= 0.638 in
target span defl. = (Lx12) / 240 = 0.692 in

try **C 5 x 6.7**

Ix (in^4)= 7.48 S (in^3)= 2.99

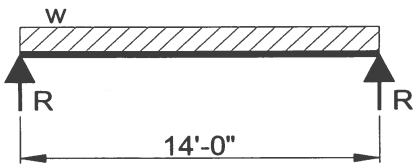
unbraced L = 16 in

Mmax = 37.63 kip-in

fb = 12.59 ksi
Fb = 21.60 ksi
fb / Fb = 58 %

REACTIONS
R = 0.89 k

Use C 5 x 6.7 with 1" long 3/16" fillet weld top and bottom of member



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ROOF JOISTS

ROOF JOIST, RJ2
AT HVAC

DL = 12 psf
Lr = 20 psf

Maximum L= 13.83 ft

beam carries 4.0 ft tributary width (TW)

w = 128 # / ft

P_{HVAC} = 0.500 k

span defl= 0.854 in
target span defl. = (Lx12) / 240 = 0.692 in

try **C5 x 6.7**

Ix (in^4)= 7.48 S (in^3)= 2.99

unbraced L = 1.00 ft

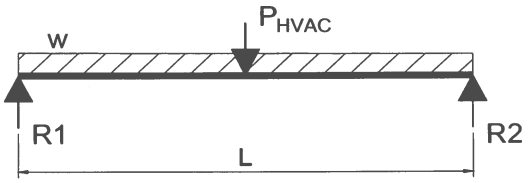
Mmax = 56.65 kip-in

Fb = 30.00 ksi Fy = 50 ksi

fb = 18.95 ksi fb / Fb = 0.63

REACTIONS R1 = R2 = 0.14 k

Use C5 x 6.7 with 2" long 3/16" fillet weld top and bottom of member



PUT LOAD AT MID-SPAN FOR WORST CASE

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FREY-MOSS STRUCTURES	JOB NO:	G25B6
CIRCLE-K STORES INC.	CALC BY:	G.G.
43'-8" x 92'-7" MODULAR BUILDING	DATE:	2/05/2026

ROOF SIDE CHANNNELS

ROOF SIDE CHANNEL - RB1

DL = 12 psf

Lr = 20 psf

Maximum L= 32.62 ft

beam carries 13.83 ft tributary width (TW) w = 443 # / ft

span defl= 1.023 in

target span defl. = (Lx12) / 240 = 1.631 in

try **MC 10 x 28.5**

Ix (in^4) = 126.0 S (in^3) = 25.30

unbraced L = 4.00 ft

Mmax = 560.7 kip-in

Fb = 21.60 ksi

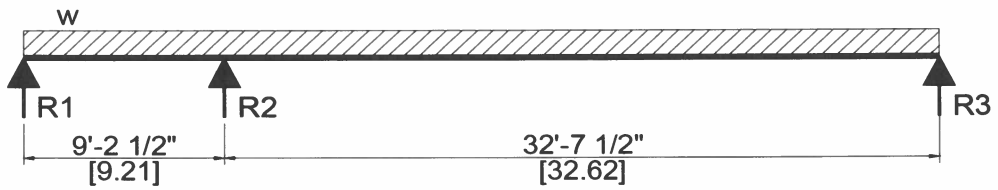
fb = 22.16 ksi

MAX. REACTION

R_{MAX} = 15.81 k 7.91 k FOR INTERIOR COLUMN ANALYSIS

USE **MC 10 x 28.5**

W/(2) 5/8" A307 BOLTS TO COLUMN



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Signature: Rahul Bajaj

Title: Staff Plan Reviewer

Date: 09/16/2026

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ROOF SIDE CHANNNELS

ROOF SIDE CHANNEL - RB2

DL = 12 psf

Lr = 20 psf

Maximum L= 11.5 ft

beam carries 6.00 ft tributary width (TW) w = 192 # / ft

span defl= 1.000 in

target span defl. = (Lx12) / 240 = 0.575 in

try **C5 x 6.7**

Ix (in^4) = 126.0 S (in^3) = 25.30

unbraced L = 4.00 ft

Mmax = 560.7 kip-in

Fb = 21.60 ksi

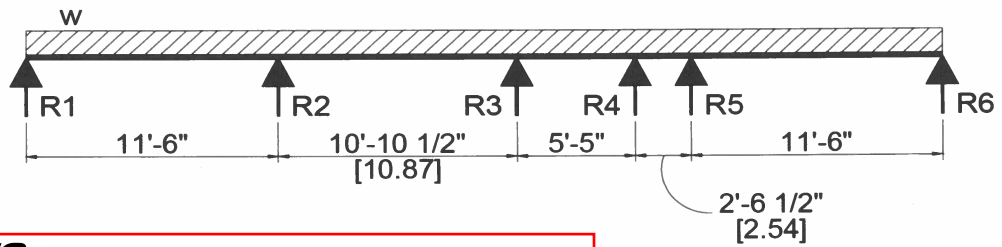
fb = 22.16 ksi

MAX. REACTION

R_{MAX} = 2.70 k

USE **C5 x 6.7**

W/(2) 5/8" A307 BOLTS TO COLUMN



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43'-8" x 92'-7" MODULAR BUILDING	DATE:	2/05/2026

FLOOR DECK CALCULATION

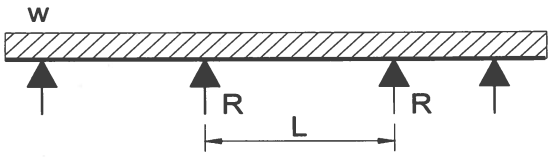
FLOOR DECK CALCULATION::

LL=	**100**	psf
DL=	**30**	psf
TL =	**130.0**	psf

Maximum Span Allowed = **4.25** ft
Per B-Deck Properites Chart
22 GA with 3-Span Min.

Actual Span = **3.67** ft

Use 22 GA B-Deck
W/ 2" LWC ON TOP



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FLOOR JOISTS

FLOOR JOIST, FJ1 - LONG SPAN

floor dead load = 30 psf
floor live load = 100 psf Maximum L= 13.83 ft

beam carries 3.67 ft tributary width w= 477 # / ft

span defl= 0.431 in

target span deflection = (Lx12) / 360 = 0.461 in

try **W6 x 9** Ix (in^4)= 16.4 S (in^3)= 5.56

unbraced L = 12 in

Mmax = 136.3 kip-in

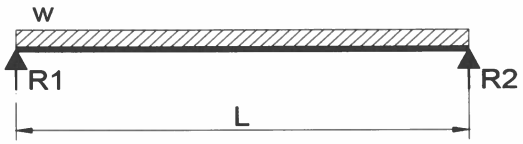
Fb = 30.0 ksi

fb = 8.31 ksi

REACTIONS

R1 = 2.48 kips
R1 = 4.12 kips

Use W6 x 9 with 2" long 3/16" fillet weld top and bottom of channel



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FLOOR JOISTS

FLOOR JOIST, FJ2 - SHORT SPAN

floor dead load = 30 psf
floor live load = 100 psf Maximum L= 11.75 ft

beam carries 3.67 ft tributary width w= 477 # / ft

span defl= 0.122 in

target span deflection = (Lx12) / 360 = 0.392 in

try **C6 x 8.2** Ix (in^4)= 13.1 S (in^3)= 4.35

unbraced L = 12 in

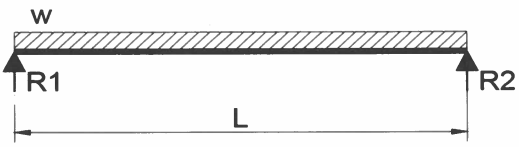
Mmax = 42.1 kip-in

Fb = 30.0 ksi

fb = 3.2 ksi

Reaction R1 = 1.83 kips

Use C6 x 8.2 with 2" long 3/16" fillet weld top and bottom of channel



NOTE:
USE W6x9 IN LIEU OF CHANNELS FOR AS WEIGHT SAVINGS IS NOT SIGNIFICANT

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FLOOR JOISTS

FLOOR JOIST, FJ3 - END JOISTS

floor dead load = 30 psf
floor live load = 100 psf Maximum L= 13.83 ft

beam carries 1.71 ft tributary width w= 222 # / ft

span defl= 0.000 in

target span deflection = (Lx12) / 360 = 0.461 in

try **C5 x 6.7** Ix (in^4)= 7.48 S (in^3)= 2.99

unbraced L = 12 in

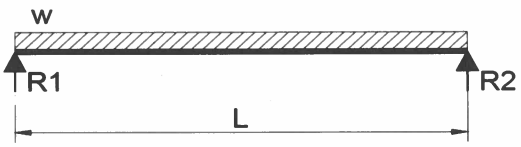
Mmax = 19.6 kip-in

Fb = 30.0 ksi

fb = 2.6 ksi

Reaction R1 = 0.85 kips

Use C5 x 6.7 with 2" long 3/16" fillet weld top and bottom of channel



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43'-8" x 92'-7" MODULAR BUILDING	DATE:	2/05/2026

FLOOR CHANNELS

FLOOR CHANNEL, FB1

floor dead load = **30** psf
floor live load = **100** psf

Maximum Span = **10.50** ft

beam carries **13.83** ft tributary width w= **1798** # / ft

span defl. = **0.124** in

target span deflection = (Lx12) / 360 = **0.35** in

try **2C10 x 15.3** Ix (in^4)= **134.6** S (in^3)= **27.00**

unbraced L = **42.0** in

Mmax = **344.7** k-in

Fb = **21.6** ksi

fb = **12.76** ksi

Max Reaction R = **37.24** k

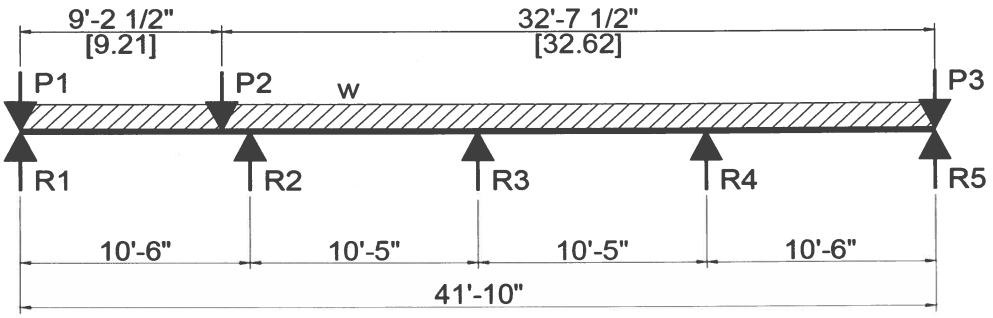
POINT LOADS

P1 =	-3.11	k
P2 =	15.81	k
P3 =	5.79	k

REACTIONS

R1	8.547	k
R2	37.235	k
R3	16.082	k
R4	21.777	k
R5	13.187	k

Use 2C10 x 15.3



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WIND & SEISMIC ANALYSIS

ASCE 7-10 WIND PRESSURE (MWFRS)

$q_h = 0.00256\ V^2\ K_e\ K_{zt}\ K_d$ — *ASCE 7-10, EQ, 26.10-1*

V_{ASD} =	93.0	mph	*ASD DESIGN WIND SPEED*
K_z =	0.85		*FOR EXP. C AND 15 ft BLDG. HT.*
K_{zt} =	1.00		*TOPO. COEFFICENT*
K_d =	0.85		*DIRECTIONAL COEFF.*
q_h =	**16.0**	psf	*ASD VELOCITY PRESSURE*

$P_p = q_h\ K_d\ (GC_{pf} - GC_{pi})$ — *ASCE 7-10, EQ, 28.3-1*

EXT. COEFFICIENTS, GC_{pf} — *FIG. 28.3-1*

ZONE 1 =	0.40	*WINDWARD WALL*
ZONE 5 =	-0.29	*LEEWARD WALL*
NET GC_{pf} =	0.69	*NET WALL COEFF.*
ZONE 1E =	0.61	*WINDWARD EDGE ZONE*
ZONE 5E =	-0.29	*LEEWARD WALL EDGE ZONE*
NET GC_{pf} =	0.90	*NET WALL COEFF. EDGE ZONE*
PARAPET =	2.50	*1.5 FOR WINDWARD PRPT., 1.0 FOR LEEWARD*

AREAS

A_{TYP} =	504.0	ft^2	
A_{EDGE} =	100.0	ft^2	*NOTE: 2a = 8.4 ft*
A_{PRPT} =	642.0	ft^2	

WIND LOADS (FULL BUILDING)

W_{TYP} =	5.56	k
W_{EDGE} =	1.44	k
W_{PRPT} =	25.68	k

TOTAL WIND LOAD (FULL BUILDING)

W_{TOTAL} = 32.68 k

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WIND & SEISMIC ANALYSIS

SEISMIC BASE SHEAR

IBC AND ASCE 7-10

From Figure 22-1 Ss = 0.183 g
From Figure 22-2 S1 = 0.086 g
Site Class D

From table 11.4-1 Fa = 1.200
From table 11.4-2 Fv = 2.400
Risk Category from Table 1.5-2 II
SMS = Fa x Ss = 0.292
SM1 = Fv x S1 = 0.205
SDS = 2/3 SMS = 0.195
SD1 = 2/3 SM1 = 0.137
Seismic Design Category D
Response Mod. Factor from Table 12.14-1.B.24, R = 2.50

SEISMIC BASE SHEAR CALCULATION

EQUIVALENT LATERAL FORCE METHOD

$V = C_S W$ $C_S = S_{DS} / R$ C_S = 0.078

WEIGHT OF ROOF + 1/2 WALLS:	W =	20.0	psf
TRIB. BUILDING AREA:	A =	3780.0	ft^2
BASE SHEAR: V = A x W	V =	75.60	k
BASE SHEAR (ASD):	0.7V =	52.920	k

WIND GOVERNS

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WIND & SEISMIC ANALYSIS

LATERAL FORCE RESISTING SYSTEMS

SHEAR WALL

CAPACITY = 0.181 klf SEE CALC PAGE 23

AVAILABLE LENGTH = 82 ft

$R_{SHR\ WLL}$ = 14.84 k

CANT'L COLUMN RESISTANCE

NO. OF PERIMETER COLUMNS:

n = 42

FORCE TAKEN BY CANT'L COLUMNS:

R_{COL} = 10.00 k

R_{COL} = 0.238 k/COL

h_{COL} = 11.50 ft COLUMN HEIGHT

M_{COL} = 2.74 kf/COL SEE COLUMN CALC (EXT. COLUMNS)

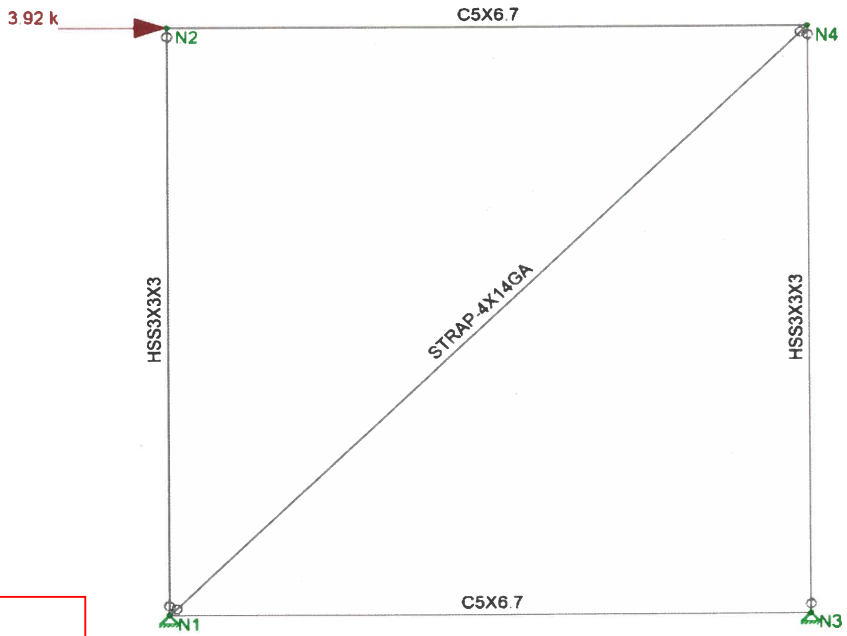
REMAINING LOAD R_{REM} = 7.84 k

CROSS BRACE (1 AT EACH SIDE OF BUILDING)

R_{XBR} = 3.92 k

1/2 TO EACH BRACE

SEE RESULTS ON FOLLOWING PAGE



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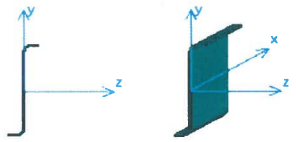
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CROSS BRACE ANALYSIS RESULTS

USE: **4" WIDE x 14 GAUGE CFS STRAP BRACE**
(1) ON EACH SIDE OF BUILDING

Detail Report: XBR

Load Combination: LC 2: W **Code check:** 0.722 (axial/bending)



Input Data

Shape:	STRAP-4X14GA	**I Node:**	N1
Member Type:	HBrace	**J Node:**	N4
Length (ft):	16.263	**I Release:**	BenPIN
Material Type:	Cold Formed Steel	**J Release:**	BenPIN
Design Rule:	Typical	**I Offset:**	N/A
Internal Sections:	97	**J Offset:**	N/A
Design Code:	AISI S100-20: ASD	**T/C Only:**	Tension Only

Material Properties

Material:	A653 SS Gr50/1	**Nu:**	0.3	**F_y (ksi):**	50
E (ksi):	29500	**Therm. Coeff. (/1E5 F):**	0.65	**F_u (ksi):**	65
G (ksi):	11346	**Density (k/ft^3):**	0.49		

Shape Properties

D (in):	3	**r_o (in):**	1.008	**$S_{et,z}$ (in^3):**	0.171
B (in):	0.5	**r_{min} (in):**	0.102	**$S_{f,z}$ (in^3):**	0.171
t (in):	0.07	**I_{y2} (in^4):**	0.258	**$S_{fy,z}$ (in^3):**	0.171
R (in):	0.188	**I_{z2} (in^4):**	0.003	**$S_{e,y}$ (in^3):**	0.011
I_{yy} (in^4):	0.005	**θ (deg):**	84.871	**$S_{et,y}$ (in^3):**	0.011
I_{zz} (in^4):	0.256	**r_z (in):**	0.999	**$S_{f,y}$ (in^3):**	0.01
Area (in^2):	0.257	**r_y (in):**	0.136	**$S_{f,yy}$ (in^3):**	0.01
J (in^4):	0.0004195	**x_0 (in):**	0		
C_w (in^6):	0.008	**$S_{e,z}$ (in^3):**	0.171		

Design Properties

$L_{b\ y-y}$ (ft):	1.33	**$C_{m\ z-z}$:**	0.6	**a:**	N/A
$L_{b\ z-z}$ (ft):	1.33	**K_{y-y}:**	1	**Function:**	Lateral
$L_{comp\ top}$:	Lbyy	**K_{z-z}:**	1	**Max Defl Ratio:**	L/10000
$L_{comp\ bot}$ (ft):	1.33	**R:**	N/A	**Max Defl Location:**	0
C_b:	1	**y sway:**	No	**Span:**	N/A
$C_{m\ y-y}$:	0.6	**z sway:**	No		



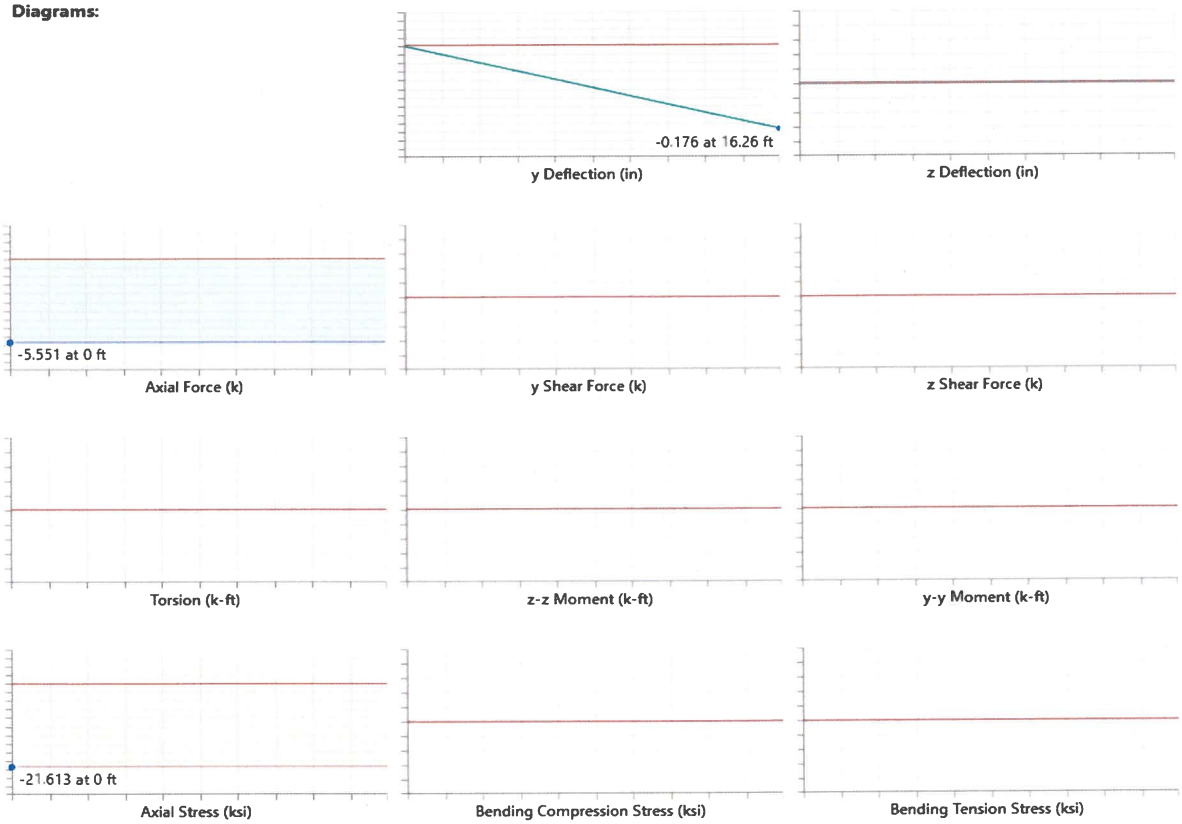
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CROSS BRACE ANALYSIS RESULTS CONTINUED

Diagrams:



AISI S100-20: ASD Code Check

Limit State	Required	Available	Unity Check	Result
Applied Loading - Bending/Axial	-	-	-	-
Applied Loading - Shear + Torsion	-	-	-	-
Axial Tension Analysis	5.551 k	7.69 k	-	-
Axial Compression Analysis	0 k	1.494 k	-	-
Flexural Analysis (Strong Axis)	0 k-ft	0.427 k-ft	-	-
Flexural Analysis (Weak Axis)	0 k-ft	0.008 k-ft	-	-
Shear Analysis (Major Axis y)	0 k	3.262 k	0	PASS
Shear Analysis (Minor Axis z)	0 k	0.637 k	0	PASS
Bending & Axial Interaction Check (UC Bending Max)	-	-	0.722	PASS

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CROSS BRACE ATTACHMENT TO COLUMNS

TENSION IN BRACE, T = 5.60 k

SEE ANALYSIS RESULTS ON PREVIOUS PAGE

LENGTH OF WELD REQUIRED:

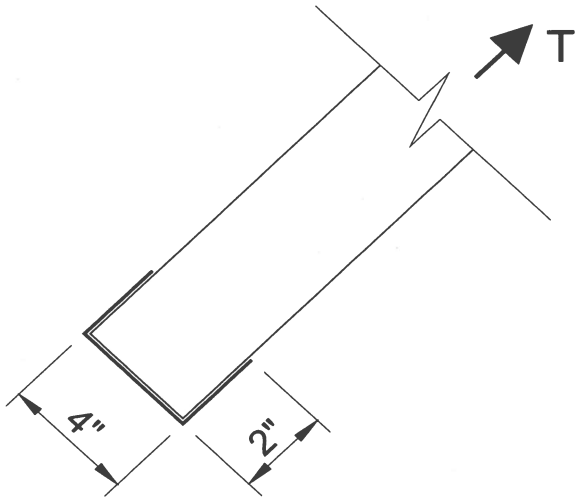
WELD CAPACITY FOR 14 GA MATERIAL (SSMA PUBLISHED DATA)

R / FS =	1.14	k / in	LONGITUDINAL FILLET
R / FS =	1.97	lb / in	TRANSVERSE FILLET

LENGTH OF TRANSVERSE FILLET WELD AVAILABLE

L_{TRANS} = 4.00 in

R / FS = 7.89 in > 5.6 k THEREFOR OKAY



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COLUMN CALCULATION

COLUMN PROPERTIES: **EXTERIOR COLUMNS**

Try HSS 3 x 3 x 3/16

S_y =	1.64	in^3	A =	1.89	in^2	r_y =	1.14	in
I_y =	2.46	in^4	K =	1.00		L =	11.00	ft
KL/r =	115.8		F_a =	11.14	ksi	F_e =	11.14	ksi
			F_b =	27.6	ksi	F_y =	46.0	ksi

GRAVITY LOAD: Load Combination : DL + LL + WL

$f_a = P/A$ P = 2.90 kips REACTION 'R3' FROM 'RB1' x 1/2 COLUMNS

f_a = 1.53 ksi

ALLOWABLE STRESS

C_c = 111.6 KL/r > C_c THEREFORE: F_a = 11.14 ksi

STRESS RATIO f_a/F_a = 0.14

LATERAL LOAD:

$f_b = (M \times 12) / S_x$ M = 2.74 ft-kips

f_b = 20.03 ksi

ALLOWABLE STRESS $F_b = 0.6F_y$ F_b = 27.60 ksi

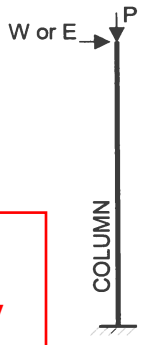
STRESS RATIO f_b/F_b = 0.73

P-M INTERACTION

Use Equation H1-1 = Cm (fb) / [Fb (1- fa/Fe)] = 0.00 ksi

$f_a/F_a + f_b/F_b$ = 0.86 ≤ 1.0 OK

***USE HSS 3 x 3 x 3/16 COLUMNS ***



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FREY-MOSS STRUCTURES	JOB NO:	G25B6
CIRCLE-K STORES INC.	CALC BY:	G.G.
43'-8" x 92'-7" MODULAR BUILDING	DATE:	2/05/2026

COLUMN CALCULATION

COLUMN PROPERTIES: **INTERIOR COLUMNS**

Try HSS 3 x 3 x 3/16

S_y =	1.64	in^3	A =	1.89	in^2	r_y =	1.14	in
I_y =	2.46	in^4	K =	1.00		L =	11.00	ft
KL/r =	115.8		F_a =	11.14	ksi	F_e =	11.14	ksi
			F_b =	27.6	ksi	F_y =	46.0	ksi

GRAVITY LOAD: Load Combination : DL + LL + WL

$f_a = P/A$ P = 7.91 kips REACTION 'R2' FROM 'RB1' / 2 COLUMNS

f_a = 4.18 ksi

ALLOWABLE STRESS

C_c = 111.6 KL/r > C_c THEREFORE: F_a = 11.14 ksi

STRESS RATIO f_a/F_a = 0.38

LATERAL LOAD:

$f_b = (M \times 12) / S_x$ M = 0.00 ft-kips NO ECCENTRICITY

f_b = 0.00 ksi

ALLOWABLE STRESS $F_b = 0.6F_y$ F_b = 27.60 ksi

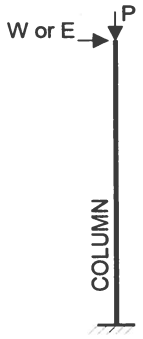
STRESS RATIO f_b/F_b = 0.00

P-M INTERACTION

Use Equation H1-1 = Cm (fb) / [Fb (1- fa/Fe)] = 0.00 ksi

$f_a/F_a + f_b/F_b$ = 0.38 ≤ 1.0 OK

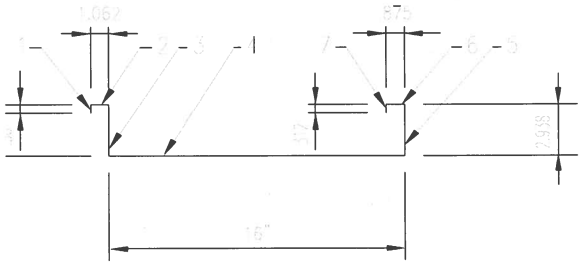
***USE HSS 3 x 3 x 3/16 COLUMNS ***



PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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20 GA Ceiling/Wall Deck - 3" Tall



Calculation Taken from From "AISI Cold Formed Steel Design" 2002 Edition - Section 3.5 & 3.6

	POSITIVE BENDING					NEGATIVE BENDING				
Members	A	Y	AY	AY2	I	A	Y	AY	AY2	I
1	0.500	2.750	1.375	3.781	0.010	0.500	2.750	1.375	3.781	0.010
2	0.990	2.982	2.952	8.803	0.000	0.990	2.982	2.952	8.803	0.000
3	3.000	1.500	4.500	6.750	2.250	3.000	1.500	4.500	6.750	2.250
4	15.928	0.018	0.287	0.005	0.002	1.611	0.018	0.029	0.001	0.000
5	2.938	1.469	4.316	6.340	2.113	2.938	1.469	4.316	6.340	2.113
6	0.803	2.920	2.345	6.847	0.000	0.803	2.920	2.345	6.847	0.000
7	0.312	2.782	0.868	2.415	0.003	0.312	2.782	0.868	2.415	0.003
Totals	24.471		16.643	34.941	4.378	10.154		16.385	34.937	4.377

Determine Effective Width Using Equation B2.1-1 through B2.1-5
From 2001 AISI Standard with 2004 Supplement

Check Compression Members
w/t = 0.990/0.036 = 28 < 30 OK

w/t = 15.928/0.036 = 442 > 30

Calculate Effective Width of Compression Flange
b = p X w = 0.101 X 0.036 = 1.611 in

Ybar = 16.643/24.471 = 0.680
C = 3.000 - 0.680 = 2.320
I = 4.378 + 34.941 - 24.471(0.680)^2
I = 28.001 x t = 28.001 x 0.036
I = 1.008 in^4
S = 1.008 / 2.320
S = 0.435 in^3

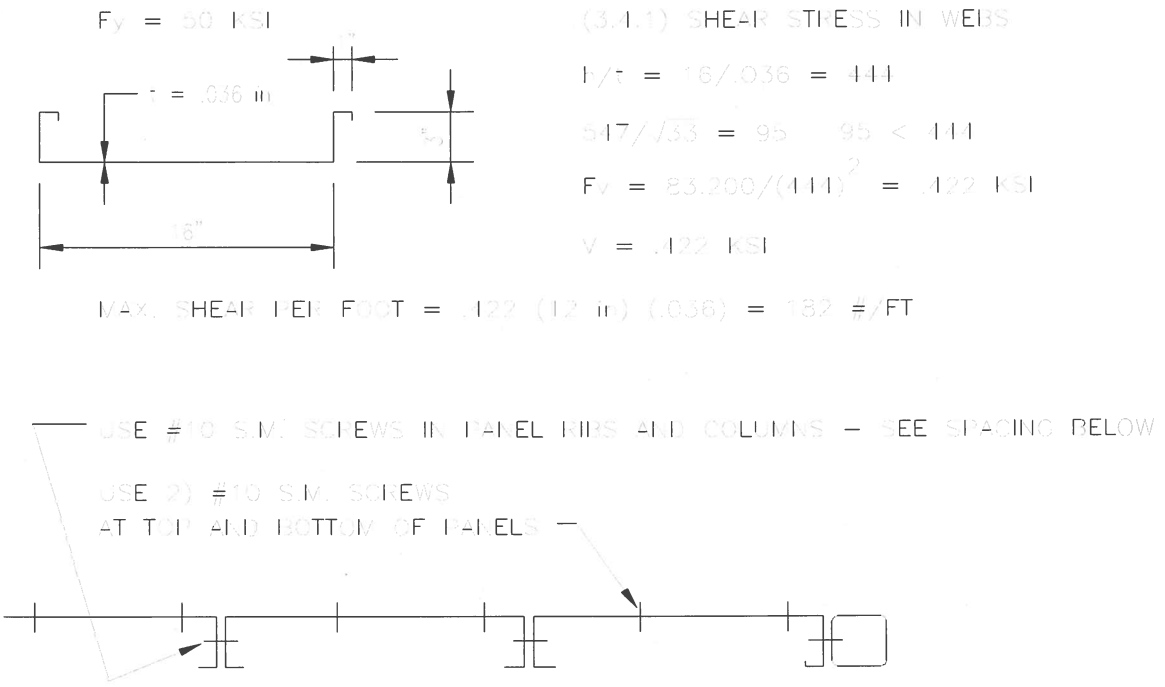
Ybar = 16.385/10.154 = 1.614
C = 3.000 - 1.614 = 1.386
I = 4.377 + 34.937 - 10.154(1.614)^2
I = 12.874 x t = 12.874 x 0.036
I = 0.463 in^4
S = 0.463 / 1.386
S = 0.334 in^3

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State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: **09/16/2026**

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FREY-MOSS STRUCTURES	JOB NO:	G25B6
CIRCLE-K STORES INC.	CALC BY:	G.G.
43'-8" x 92'-7" MODULAR BUILDING	DATE:	2/05/2026



SHEAR WALL FASTENER SPACING

#10 S.M. Screw (Minor Diameter = .18 in)

Value in Shear per Screw = 250# per AISI Cold Formed Steel Design Table IV

Using Spacing of 22 inches

Max. Shear per Foot in Shear Wall = 250 (1.33) (12 in/ft) /22 in = 181 #/ft

Use Value of 181 #/ft for Max. Shear per Foot in Shear Wall

Using Spacing of 60 inches

Max. Shear per Foot in Shear Wall = 250 (1.33) (12 in/ft) /60 in = 67 #/ft

Use Value of 67 #/ft for Max. Shear per Foot in Shear Wall

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State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: **09/16/2026**

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FREY-MOSS STRUCTURES	JOB NO:	G25B6
CIRCLE-K STORES INC.	CALC BY:	G.G.
43'-8" x 92'-7" MODULAR BUILDING	DATE:	2/05/2026

Check Wall Deck against Wind Load

From Table 30.7-2 from ASCE 7-10 Zone 5 Pressure = 34.9 psf

Distributed Load on Wall = 34.9 psf X 4/3 ft = 46.5 #/ft

Moment in Panel = 46.5 #/ft X 9 ft^2 / 12 = 314 ft-lbs = 9.22 in-kips

9.22 in-kips / 0.435 in^3 = 27.60 ksi < 30 ksi OK
SEE 3 in x 16 in, 20 GA. DECK PROPERTIES, S_x = 0.334 in^3

Calculation for Fastening Roof Flashing

From Fig. 30.3-2 from ASCE 7-10 Zone 3 Pressure = 58.4 psf

Maximum Wind Load = -58.4 psf

Panels are 1.0 ft wide and fasteners are 2'-0" O/C Max

Load in each fastener = 58.4 psf X 1.0 ft X 2.0 ft = 117 lbs

#10 Teks are good for 302 # Pullout, 1125 # Pullover and 731 # Shear OK

Calculation for Fastening Skin Panels

From Table 30.3-1 from ASCE 7-10 Zone 5 Pressure = 34.9 psf

Maximum Wind Load = -34.9 psf

Panels are 1.8 ft wide and fasteners are 3'-0" O/C Max

Load in each fastener = 34.9 psf X 1.8 ft X 3 ft = 58 lbs

#10 Teks are good for 302 # Pullout, 1125 # Pullover and 731 # Shear OK

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State: North Carolina
Signature: Ramik Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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FREY-MOSS STRUCTURES	JOB NO:	G25B6
CIRCLE-K STORES INC.	CALC BY:	G.G.
43'-8" x 92'-7" MODULAR BUILDING	DATE:	2/05/2026

C/C WIND PRESSURES ON ZEE-LOCK DECK
REFERENCE: ASCE 7-10, CH. 30, SECT. 30.3.2

DESIGN WIND PRESSURE

$p = q_h K_d ((GC_p) - (GC_{pi}))$

WHERE

q_h =	**27.7**	psf	
V_{ASD} =	114	mph	
K_z =	0.98		
K_{zt} =	1.00		
K_d =	0.85		
GC_p =	2.50	*FIG. 30.3-2D (ZONE 3)*	
GC_{pi} =	0.18	*ENCLOSED BUILDING*	
p =	**63.1**	psf (ZONE 3)	

ALLOWABLE WIND PRESSURE

p_{ALLOW} =	87.50	*psf - SEE FOLLOWING PAGE FROM MANUFACTURER'S ENGINEERING REP.*
p / p_{ALLOW} =	0.72	< 1.0 THERE OKAY

USE: 24 GA. DOUBLE-LOCK PANELS
FASTEN TO 18 GA SUPPORT DECK
W/#12 HEX HD SCREW AT 18" MAX.

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State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

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MIAMI-DADE NOA INFORMATION
PRODUCTS: BERRIDGE "ZEE-LOCK" PANELS & AND "ZEE-RIB" CLIPS
REFERENCE MIAMI-DADE NOA #22-0920.08 (RENEWS #17-0808.06)

System B:	Berridge Zee-Lock or Curved Zee-Lock 16" Wide Panel
Deck Type:	22 ga. Steel, Insulated
Deck Description:	ASTM A 611 Grade C Type B Steel Deck.
Slope Range:	2": 12" or greater
Maximum Uplift Pressure:	**See Table B below**

Deck Attachment: Minimum 22 gage steel deck shall be secured 6" o.c. to structural supports spaced a maximum of 5 ft o.c. with **one (1)** #12-14 x 1" Hex Washer Head screws fastened at the bottom of each flute (6" o.c.). Deck sidelaps shall be fastened 12" o.c. with #14 x 7/8" Hex Washer Head stitch screws.

Insulation: Between 4" - 6" thick of an approved rigid board insulation with current NOA having a minimum 25psi compressive strength fastened with approved fasteners and plates. Fastening density shall be in compliance with applicable Building Code and Roofing Application Standard RAS 117.

Underlayment: Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 1 ¼" fasteners, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll, or any approved underlayment having a current NOA.

Apply a layer of GAF Materials Corporation Versashield (with current NOA) over the underlayment with 4" overlaps and 6" endlaps. GAF Materials Corporation Versashield (with current NOA) is to be tacked in place and held in position by the panel fastening..

Fire Barrier Board: Any approved fire barrier having a current NOA. Refer to a current fire directory listing or current ASTM E 108 test report for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.

Valleys: Valley construction shall be in compliance Roofing Application Standard RAS 133 and with Berridge Manufacturing Company's current published installation instructions.

Metal Panels and Accessories: Install the Zee Lock Panels including flashings penetrations, valleys, and accessories in compliance with Berridge Manufacturing Company's current, published installation instructions and in compliance with the minimum requirements detailed in Roofing Application Standard RAS 133.

1. Each roof panel is attached to the steel substrate along its male rib using the approved clips (continuous, 24-ga). Each clip is attached to the substrate with one (1) DP1 Concealor by TFC, #14-13 corrosion resistant screw of sufficient length to penetrate through the steel deck a minimum of 3/4" at a spacing listed in **Table B** below.
2. Attach adjacent panel by placing the female rib over the male rib and clip. Standing seams shall be mechanically seamed to a full 180° seam. (Double Lock)

TABLE B
MAXIMUM DESIGN PRESSURE

	Field	Perimeter and Corner[1]
Maximum Design Pressure	**-168.5 psf**	**-176 psf**
Maximum Fastener Spacing	**16" o.c.**	**8" o.c.**

1. Extrapolation shall not be allowed

MIAMI-DADE COUNTY APPROVED

PFS CORPORATION
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State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: **09/16/2026**

NOA No.: 22-0920.08
Expiration Date: 12/06/27
Approval Date: 10/27/22
Page 4 of 6

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

COMcheck Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information

Energy Code:	90.1 (2016) Standard
Project Title:	Circle K Modular C-Store Erwin, NC
Location:	Erwin, North Carolina
Climate Zone:	3a
Project Type:	New Construction
Vertical Glazing / Wall Area:	15%
Performance Sim. Specs:	EnergyPlus 8.1.0.009 (EPW: USA_NC_Raleigh-Durham.Intl.AP.723060_TMY3.epw)

Construction Site:

Owner/Agent:

Designer/Contractor:

Building Area	Floor Area
1-Retail : Nonresidential	3863

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Insulation Entirely Above Deck, 3-Year-Aged Solar Reflectance = 0.68, Thermal Emittance = 0.84, [Bldg. Use 1 - Retail]	3863	---	26.1	0.037	0.039
Floor: Steel Joist, [Bldg. Use 1 - Retail]	3863	19.0	5.6	0.040	0.038
NORTHEAST					
Ext. Wall: Other Steel Framed Wall, [Bldg. Use 1 - Retail] (b)	1004	---	---	0.079	0.077
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Retail]	21	---	---	0.350	0.370
SOUTHEAST					
Ext. Wall: Other Steel Framed Wall, [Bldg. Use 1 - Retail] (b)	466	---	---	0.079	0.077
SOUTHWEST					
Ext. Wall: Other Steel Framed Wall, [Bldg. Use 1 - Retail] (b)	1004	---	---	0.079	0.077
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID -, SHGC 0.27, VT 0.64, [Bldg. Use 1 - Retail] (c)	42	---	---	0.280	0.770
Window: Metal Frame: Fixed, Perf. Specs.: Product ID -, SHGC 0.27, VT 0.64, [Bldg. Use 1 - Retail] (c)	363	---	---	0.280	0.500
NORTHWEST					
Ext. Wall: Other Steel Framed Wall, [Bldg. Use 1 - Retail] (b)	466	---	---	0.079	0.077
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID -, SHGC 0.27, VT 0.64, [Bldg. Use 1 - Retail] (c)	35	---	---	0.280	0.770

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) 'Other' components require supporting documentation for proposed U-factors.
(c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

Project Notes

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2016) Standard requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Charles H. Moss PE — Name - Title

Signature

8-11-26 — Date

Rs = 0.17 (Exterior Air Film) + 6.5 (1" Rigid Insulation) + 0.0 (Metal Panel + 0.68 (Interior Air Film) = 17.35
ER = 11.7 (3.5" R-13 Batt Insulation) X 0.46 (Correction Factor "Fc" from table C402.1.4.1) = 5.38
Uo = 1/(Rs + ER) = 1/(7.35 + 5.38) = 0.079

C.H. MOSS, P.E.
P.O. BOX 28
COVINGTON, GA 30015

NORTH CAROLINA PROFESSIONAL SEAL 11066 ENGINEER CHARLES H. MOSS

8-11-26

PFS CORPORATION
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State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: **09/16/2026**

COM*check* Software Version COMcheckWeb

Interior Lighting Compliance Certificate



Project Information

Energy Code:	90.1 (2016) Standard
Project Title:	Circle K Modular C-Store Erwin, NC
Project Type:	New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Retail	3863	1.06	4095
		Total Allowed Watts =	4095

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Retail				
LED: A, AE: Other:	1	40	39	1560
LED: B: Other:	1	12	19	228
LED: C, CE: Other:	1	9	31	279
LED: D, DE: Other:	1	7	38	266
LED: M, ME: Other:	1	5	75	375
LED: N: Other:	1	1	32	32
		Total Proposed Watts =		2740

Interior Lighting PASSES: Design 33% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Rafael Rivero — Name - Title

RLRN — Signature

07/27/2026 — Date

PFS CORPORATION
Approval Limited to Factory Built Portion Only

State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

COM*check* Software Version COMcheckWeb

Exterior Lighting Compliance Certificate



07/28/2026

Project Information

Energy Code:	90.1 (2016) Standard
Project Title:	Circle K Modular C-Store Erwin, NC
Project Type:	New Construction
Exterior Lighting Zone	2 (Neighborhood business district (LZ2))

Construction Site: Owner/Agent: Designer/Contractor: COA:P−1359

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Walkway < 10 feet wide	76 ft of	0.5	Yes	38
Illuminated area of facade wall or surface	1893 ft2	0.1	No	189
			Total Tradable Watts (a) =	38
			Total Allowed Watts =	227
			Total Allowed Supplemental Watts (b) =	400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Walkway < 10 feet wide (76 ft of walkway length): Tradable Wattage				
LED: L: Other:	1	9	25	225
Illuminated area of facade wall or surface (1893 ft2): Non-tradable Wattage				
LED: WP1: Other:	1	6	51	306
			Total Tradable Proposed Watts =	225

Exterior Lighting PASSES: Design 30% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Rafael Rivero	RLRR	07/27/2026
Name - Title	Signature	Date

PFS CORPORATION
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State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: **09/16/2026**

COM*check* Software Version COMcheckWeb

Mechanical Compliance Certificate



Project Information

Energy Code:	90.1 (2016) Standard
Project Title:	Circle K Modular C-Store Erwin, NC
Location:	Erwin, North Carolina
Climate Zone:	3a
Project Type:	New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Mechanical Systems List

Quantity	System Type & Description
1	RTU-1 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 54 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Single Package DX Unit, Capacity = 62 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 15.20 SEER, Required Efficiency = 14.00 SEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: RTU-1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: RTU-1 Supply, Constant Volume, 1940 CFM, 1.4 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Part of code listed equipment
1	RTU-2 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 109 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Single Package DX Unit, Capacity = 100 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 12.90 EER, Required Efficiency = 11.20 EER Proposed Part Load Efficiency = 15.20 IEER, Required Part Load Efficiency = 12.90 IEER Fan System: RTU-2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: RTU-2 Supply, Constant Volume, 2870 CFM, 2.4 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Part of code listed equipment
1	Water Heater: Electric Storage Water Heater, Capacity: 50 gallons Proposed Efficiency: 0.84 SL, %/h (if > 12 kW), Required Efficiency: 0.84 SL, %/h (if > 12 kW)

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2016) Standard requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Sebastian Arellano - Mechanical Designer — Name - Title

Signature

07/24/2026 — Date

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Approval Limited to Factory Built Portion Only

State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: 09/16/2026

COM*check* Software Version COMcheckWeb

Inspection Checklist

Energy Code: 90.1 (2016) Standard

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 5.4.3.1.1, 5.7 [PR1][1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** S11-S12
4.2.2, 6.4.4.2.1, 6.7.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
4.2.2, 7.7.1, 10.4.2 [PR3][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** P-Drawings
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6][2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E-Drawings
4.2.2, 9.4.3, 9.7 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E5.0

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Title: Staff Plan Reviewer
Date: 09/16/2026

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
9.7 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E5.0
6.7.2.4 [PR5][1]	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
5.5.4.2.3 [PR7][2]	In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is >= half the floor area and (a) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40 or (b) the minimum skylight effective aperture >= 1 percent. The skylights have a measured haze value > 90 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

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Section # & Req.ID	Footing / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
4.2.4 [FO1][2]	Installed below-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____	R-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
4.2.4 [FO3][2]	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Unheated ☐ Heated	R-____ ☐ Unheated ☐ Heated	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.3.5 [FO5][2]	Slab edge insulation depth/length.	____ ft	____ ft	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.7 [FO6][1]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** S11-S12
5.8.1.7.3 [FO7][1]	Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** S11-S12
6.4.3.7 [FO9][3]	Freeze protection and snow/ice melting system sensors for future connection to controls.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.4.1.5 [FO11][3]	Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.	R-____	R-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. *See the Envelope Assemblies table for values.*

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Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.2 [FR1][3]	Factory-built and site-assembled fenestration and doors are labeled or certified as meeting air leakage requirements.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.5.4.3a [FR8][1]	Vertical fenestration U-Factor.	U-____	U-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.3b [FR9][1]	Skylight fenestration U-Factor.	U-____	U-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.4.1 [FR10][1]	Vertical fenestration SHGC value.	SHGC:____	SHGC:____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.4.2 [FR11][1]	Skylight SHGC value.	SHGC:____	SHGC:____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.2.1, 5.8.2.3, 5.8.2.4, 5.8.2.5 [FR12][2]	Fenestration products rated (U-factor, SHGC, and VT) in accordance with NFRC or energy code defaults are used.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** A3
5.8.2.2 [FR13][1]	Fenestration and door products are labeled, or a signed and dated certificate listing the U-factor, SHGC, VT, and air leakage rate has been provided by the manufacturer.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** A3
5.5.3.6 [FR14][2]	U-factor of opaque doors associated with the building thermal envelope meets requirements.	U-____ ☐ Swinging ☐ Nonswinging	U-____ ☐ Swinging ☐ Nonswinging	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.4.3.1 [FR15][1]	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces in climate zones 1-6.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** S11-S12

Additional Comments/Assumptions:

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Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
7.4.4.1 [PL2][3]	Temperature controls installed on service water heating systems (<=120ºF to maximum temperature for intended use).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** P-Drawings
7.4.6 [PL4][3]	Heat traps installed on non-circulating storage water tanks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** P-Drawings

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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.1.4, 6.4.1.5 [ME1][2]	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting 90.1.	Efficiency:____	Efficiency:____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
6.4.3.4.1 [ME3][3]	Stair and elevator shaft vents have motorized dampers that automatically close.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.3.4.5 [ME39][3]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.3.4.4 [ME5][3]	Ventilation fans >0.75 hp have automatic controls to shut off fan when not required.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.4.3.8 [ME6][1]	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Systems with a design outdoor airflow less than 1200 cfm. **Location on plans/spec:** M-Drawings
6.5.3.2.1 [ME40][2]	DX cooling systems >= 75 kBtu/h (>= 65 kBtu/h effective 1/2016) and chilled-water and evaporative cooling fan motor hp >= ¼ designed to vary supply fan airflow as a function of load and comply with operational requirements.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings *See the Mechanical Systems list for values.*
6.4.4.1.1 [ME7][3]	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.4.4.1.2 [ME8][2]	HVAC ducts and plenums insulated per Table 6.8.2. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	R-____	R-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.4.4.1.3 [ME9][2]	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	____ in.	____ in.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.4.4.1.4 [ME41][3]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.4.2.1 [ME10][2]	Ducts and plenums having pressure class ratings are Seal Class A construction.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings

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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.8.1-15, 6.8.1-16 [ME110][2]	Electrically operated DX-DOAS units meet requirements per Tables 6.8.1-15 or 6.8.1-16.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.4.4.2.2 [ME11][3]	Ductwork operating >3 in. water column requires air leakage testing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.1.5 [ME16][1]	Economizer operation will not increase heating energy use during normal operation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.5.2.3 [ME19][3]	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.5.2.4.1 [ME68][3]	Humidifiers with airstream mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.5.2.4.2 [ME69][3]	Humidification system dispersion tube hot surfaces in the airstreams of ducts or air-handling units insulated >= R-0.5.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.5.2.5 [ME70][3]	Preheat coils controlled to stop heat output whenever mechanical cooling, including economizer operation, is active.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.5.2.6 [ME106][3]	Units that provide ventilation air to multiple zones and operate in conjunction with zone heating and cooling systems are prevented from using heating or heat recovery to warm supply air above 60°F when representative building loads or outdoor air temperature indicate that most zones demand cooling.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.5.3.6 [ME72][2]	Motors for fans >= 1/12 hp and < 1 hp are electronically-commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.3.4 [ME108][2]	Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or reverse the terminal damper logic and provide heating from the central air handler through primary air.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.3.7 [ME109][2]	Required minimum outdoor air rate is the larger of minimum outdoor air rate or minimum exhaust air rate required by Standard 62.1, Standard 170, or applicable codes or accreditation standards. Outdoor air ventilation systems shall comply with one of the following: a) design minimum system outdoor air provided < 135% of the required minimum outdoor air rate, b) dampers, ductwork, and controls allow the system to supply <= the required minimum outdoor air rate with a single set-point adjustment., or c) system includes exhaust air energy recovery complying with Section 6.5.6.1.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.3.3 [ME42][3]	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings *See the Mechanical Systems list for values.*
6.5.4.2 [ME25][3]	HVAC pumping systems with >= 3 control values designed for variable fluid flow (see section details).			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.5.6.1 [ME56][1]	Exhaust air energy recovery on systems meeting Tables 6.5.6.1-1, and 6.5.6.1-2.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.7.1 [ME100][2]	Conditioned supply air to space with mechanical exhaust <= the greater of criteria of supply flow, required ventilation rate, exhaust flow minu the available transffer air (see section details).			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.7.2.1 [ME32][2]	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.7.2.4 [ME49][3]	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.8.1 [ME34][2]	Unenclosed spaces that are heated use only radiant heat.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.9 [ME35][1]	Hot gas bypass limited to: <=240 kBtu/h – 15% >240 kBtu/h – 10%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
7.4.2 [ME36][2]	Service water heating equipment meets efficiency requirements.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.3.9 [ME63][2]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.10 [ME73][3]	Doors separating conditioned space from the outdoors have controls that disable/reset heating and cooling system when open.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Building entrances have automatic closing devices. **Location on plans/spec:** A3

Additional Comments/Assumptions:

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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10][2]	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E-Drawings
8.4.3 [EL11][2]	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Buildings 25,000 ft2.
9.4.1.1 [EL1][2]	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E5.0
9.4.1.1 [EL2][2]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E5.0
9.4.1.1f [EL13][1]	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
9.4.1.4 [EL3][2]	Automatic lighting controls for exterior lighting installed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E5.0
9.4.1.3 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E5.0
9.6.2 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E5.0
10.4.1 [EL9][2]	Electric motors meet requirements where applicable.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings

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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
4.2.4 [IN2][1]	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	R-____ ☐ Above deck ☐ Metal ☐ Attic	R-____ ☐ Above deck ☐ Metal ☐ Attic	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2, 5.8.1.3 [IN3][1]	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope is <= 3:12.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** S11-S12
4.2.4 [IN6][1]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood	R-____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2 [IN7][1]	Above-grade wall insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** S11-S12
4.2.4 [IN8][2]	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Mass ☐ Steel ☐ Wood	R-____ ☐ Mass ☐ Steel ☐ Wood	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2 [IN9][2]	Floor insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** S11-S12
5.8.1.1 [IN10][2]	Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.1.9 [IN18][2]	Building envelope insulation extends over the full area of the component at the proposed rated R or U value.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.1.4 [IN11][2]	Eaves are baffled to deflect air to above the insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** S11-S12
5.8.1.5 [IN12][2]	Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** S11-S12
5.8.1.6 [IN13][2]	Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.8.1.7.1 [IN15][2]	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** S11-S12
5.8.1.7.2 [IN16][2]	Foundation vents do not interfere with insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.1.8 [IN17][3]	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** S11-S12

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
5.4.3.3 [FI1][1]	Weatherseals installed on all loading dock cargo doors in Climate Zones 4-8.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.3.1.2 [FI3][3]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.4.3.2 [FI20][3]	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.4.3.3.1 [FI21][3]	HVAC systems equipped with at least one automatic shutdown control.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.4.3.3.2 [FI22][3]	Setback controls allow automatic restart and temporary operation as required for maintenance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.4.3.12 [FI200][3]	Air economizer has a fault detection and diagnostics (FDD) system (see details for configuration and operational requirements).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.4.3.6 [FI6][3]	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited. Humidity control prohibits the use of fossil fuel or electricity to produce RH > 30% in the warmest zone humidified and RH < 60% in the coldest zone dehumidified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
6.7.2.1 [FI7][3]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.7.2.2 [FI8][3]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.7.2.3 [FI9][1]	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >5,000 ft2 of conditioned area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.7.2.4 [FI10][1]	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** M-Drawings
7.4.4.3 [FI11][3]	Public lavatory faucet water temperature <=110°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** P-Drawings

PFS CORPORATION
Approval Limited to Factory Built Portion Only
State: North Carolina
Signature: Rakul Bajaj
Title: Staff Plan Reviewer
Date: **09/16/2026**

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16][3]	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
8.7.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.2.2.3 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
9.4.2 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
9.4.4 [FI20][1]	At least 75% of all permanently installed lighting fixtures in dwelling units have >= 55 lm/W efficacy or a >= 45 lm/W total luminaire efficacy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E5.0
10.4.3 [FI24][2]	Elevators are designed with the proper lighting, ventilation power, and standby mode.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
7.4.3 [FI45][2]	First 8 ft of outlet piping in nonrecirculating storage system, or branch piping connected to recirculated, heat traced, or impredance heated piping is insulated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** P-Drawings

Additional Comments/Assumptions:

PFS CORPORATION
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State: North Carolina
Signature: Rahul Bajaj
Title: Staff Plan Reviewer
Date: **09/16/2026**

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

PFS CORPORATION

Approval Limited to Factory Built Portion Only

State: North Carolina

Signature: Rahul Bajaj

Title: Report Prepared By Staff Plan Reviewer

Date: 07/16/2026

Loss and Heat Gain Calculation 7/17/2026

NORTH CAROLINA PROFESSIONAL SEAL 053741 ENGINEER ROSS E. WATERS

07/28/2026

COA:P-1359

Frey-Moss Structures

For: Circle K Modular C-Store
NC 55 & E. Jackson Blvd.
Erwin, North Carolina 28339

Design Conditions: Fayetteville, Pope; Latitude: 35; Time 4:00 PM

Indoor:		Outdoor:	
Summer temperature:	72	Summer temperature:	92
Winter temperature:	70	Winter temperature:	20
Relative humidity:	50	Summer grains of moisture:	111
		Daily temperature range:	20

Building Component			Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
Floor	3,863	sq.ft.	0	0	0	10,814
NE Wall	984	sq.ft.	1,484	0	1,484	3,936
Door	20	sq.ft.	144	0	144	360
Leakage Summer	14	cfm	308	505	813	0
Leakage Winter	27	cfm	0	0	0	1,485
SW Wall	601	sq.ft.	844	0	844	2,404
Window	363	sq.ft.	21,107	0	21,107	5,808
Door	40	sq.ft.	3,512	0	3,512	640
Leakage Summer	220	cfm	4,840	7,929	12,769	0
Leakage Winter	380	cfm	0	0	0	20,900
SE Wall	466	sq.ft.	969	0	969	1,864
NW Wall	386	sq.ft.	381	0	381	1,544
Door	80	sq.ft.	3,330	0	3,330	1,280
Leakage Summer	180	cfm	7,920	12,974	20,894	0
Leakage Winter	310	cfm	0	0	0	34,100
Ceiling	3,863	sq.ft.	18,305	0	18,305	17,384
People/Vent	45	people	11,250	9,000	20,250	0
Ventilation	700	cfm	15,400	25,228	40,628	38,500
Infiltration Summer	0	cfm	0	0	0	0
Infiltration Winter	212.465	cfm	0	0	0	11,686
Lights	1,440	watts	5,904	0	5,904	0
Miscellaneous			9,580	920	10,500	0
Whole Building - All Components			105,278	56,556	161,834 (13.5 tons)	152,705

Load calculations are estimates only, actual loads may vary due to weather and construction differences.