SHEET INDEX:

PROJECT:

HARNETT REGIONAL AIRPORT HANGAR #2

497 AIRPORT ROAD
ERWIN, NORTH CAROLINA 28339

PROJECT TEAM:

BUILDING DEPARTMENT:

HARNETT COUNTY
INSPECTION DEPARTMENT
420 MCKINNEY PARKWAY
LILLINGTON, NC 27546
910-893-2793

PROJECT DESIGNER:

JENKINS CONSULTING ENGINEERS, P.A.
OFFICE in EUREKA SPRINGS, NC
KELLY J. DODSON, PE
DOUGLAS L. JENKINS, PE
1606 MCARTHUR ROAD
FAYETTEVILLE, NC 28311-1002
910-822-1724

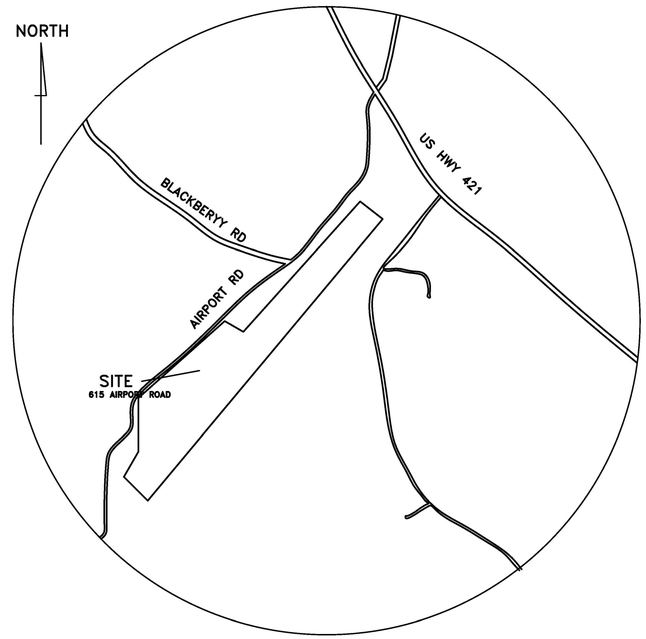
CODE REVIEW:

APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

BUILDING	2018 NC EXISTING BUILDING CODE 2018 NC BUILDING CODE
FIRE PREVENTION	2018 NC FIRE CODE
ENERGY	2018 NC ENERGY CONSERVATION CODE
PLUMBING	2018 NC PLUMBING CODE
MECHANICAL	2018 NC MECHANICAL CODE
ELECTRICAL	2020 NATIONAL ELECTRICAL CODE (NFPA-70)

VICINITY PLAN

NOT TO SCALE



BUILDING DATA:

THE PROJECT SCOPE IS TO CONSTRUCT A NEW BUILDING FOR USE AS AN AIRCRAFT HANGAR

JENKINS CONSULTING ENGINEERS, PA
OFFICE in EUREKA SPRINGS, ARKANSAS
CORPORATION NUMBER C-3070 - jenny@jenkinspe.com
1606 McARTHUR RD. FAYETTEVILLE, NC 28311-1002
910.822.1724

NORTH CAROLINA PROFESSIONAL SEAL 42009 ENGINEER KELLY J. DODSON

05 AUGUST 2025

DESIGNED / CHECKED BY: KJD
DRAWN BY: BT
PROJECT #: 2025-07-21
DATE: 05 AUGUST 2025

FINAL DRAWING ☐ FOR REVIEW PURPOSES ONLY
PRELIMINARY ☐ FOR DESIGN DEVELOPMENT ONLY
FINAL DRAWING ☑ FOR CONSTRUCTION

OWNER/TENANT: - -

CONTRACTOR/BUILDER: - -

PROJECT: HARNETT COUNTY AIRPORT HANGAR #2
497 AIRPORT RD. ERWIN, NC 28339

SHEET: COVER & INDEX TO DRAWINGS

CS

SCALE: 1-1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 3/16" = 1'-0" | SCALE: 1/8" = 1'-0"

Drawing File: H:\2025\Harnett County Airport #2 RD 2025-07-21\DWG\Harnett-Airport#2-28 July 2025.dwg
Plotted By: Kelly Dodson
Plotted Date: Aug 05, 2025 - 3:53pm

2018 NORTH CAROLINA BUILDING CODE SUMMARY: APPENDIX B

Name of Project: HARNETT REGIONAL AIRPORT HANGAR #2 — ParID / PIN: / 0417004916000
Address: 497 AIRPORT ROAD — Zip Code: 28339
Proposed Use: AIRCRAFT HANGAR (U)
Owner or Authorized Agent: BRIAN RAYNOR — Phone 910-824-1238 — E-Mail brayner@highlandpaving.com
Owned By: – ☐ City/County ☑ Private ☐ State
Code Enforcement Jurisdiction: ☑ City ERWIN ☐ County ☐ State NORTH CAROLINA

CONTACT: KELLY J. DODSON

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	N/A	N/A	N/A	N/A	N/A
Civil	N/A	N/A	N/A	N/A	N/A
Electrical	JCE	DOUGLAS L. JENKINS	NC PE 28803	(910) 822-1724	buddy@jenkinsce.pro
Fire Alarm	N/A	N/A	N/A	N/A	N/A
Plumbing	JCE	DOUGLAS L. JENKINS	NC PE 28803	(910) 822-1724	buddy@jenkinsce.pro
Mechanical	JCE	DOUGLAS L. JENKINS	NC PE 28803	(910) 822-1724	buddy@jenkinsce.pro
Sprinkler–Standpipe	N/A	N/A	N/A	N/A	N/A
Structural :	JCE	KELLY J. DODSON	NC PE 42009	(910) 822-1724	kelly@jenkinsce.pro
INTERIOR WALLS	N/A	N/A	N/A	N/A	N/A
Retaining Walls >5' High	N/A	N/A	N/A	N/A	N/A
Building	JCE	KELLY J. DODSON	NC PE 42009	(910) 822-1724	kelly@jenkinsce.pro

2018 NORTH CAROLINA BUILDING CODE: ☑ New Building ☐ Addition ☐ Shell / Core ☐ Phased Construction – Shell Core ☐ First Time Interior Completions

2018 NORTH CAROLINA EXISTING BUILDING CODE: (check all that apply) ☐ Prescriptive ☐ Repair ☐ Chapter 14 ☐ Alteration Level I ☐ Alteration Level II ☐ Alteration Level III ☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) N/A — CURRENT USE (S) (Ch. 3): N/A
RENOVATED: (date) N/A — PROPOSED USE (S) (Ch. 3): AIRCRAFT HANGAR (GROUP III – NFPA 409)
OCCUPANCY RISK CATEGORY (Table 1604.5): Current: N/A — Proposed: II

BASIC BUILDING DATA

Construction Type: (check all that apply) ☐ I–A ☐ I–B ☐ II–A ☑ II–B ☐ III–A ☐ III–B ☐ IV ☐ V–A ☐ V–B
Sprinklers: ☑ No ☐ Partial ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☑ No Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Primary Fire District: ☑ No ☐ Yes (APPENDIX D) Flood Hazard Area: ☑ No ☐ Yes
Special Inspections Required: ☑ No ☐ Yes

GROSS BUILDING AREA TABLE

FLOOR	EXISTING (sq ft)	NEW (sq ft)	SUBTOTAL
GROUND LEVEL	N/A	9,000	9,000
TOTAL SPACE AREA	N/A	9,000	9,000

ALLOWABLE AREA

Primary Occupancy Classification(s):

Assembly	☐ A–1	☐ A–2	☐ A–3	☐ A–4	☐ A–5
Business	☐				
Educational	☐				
Factory	☐ F–1 Moderate	☐ F–2 Low			
Hazardous	☐ H–1 Detonate	☐ H–2 Deflograte	☐ H–3 Combust	☐ H–4 Health	☐ H–5 HPM
Institutional	☐ I–1	☐ I–2	☐ I–3	☐ I–4	
I–1 Condition	☐ 1 ☐ 2				
I–2 Condition	☐ 1 ☐ 2				
I–3 Condition	☐ 1 ☐ 2	☐ 3 ☐ 4	☐ 5		
Mercantile	☐				
Residential	☐ R–1	☐ R–2	☐ R–3	☐ R–4	
Storage	☐ S–1 Moderate	☐ S–2 Low		☐ High–piled	
	☐ Parking Garage	☐ Open ☐ Enclosed		☐ Repair Garage	
Utility and Miscellaneous	☑				

Accessory Occupancy Classification(s): NONE
Incidental Uses (Table 509): NONE
This separation is not exempt as a Non–separated Use (see exceptions).

Special Uses (Chapter 4): ☐ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☑ 412 ☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421 ☐ 422 ☐ 423 ☐ 424 ☐ 425 ☐ 426 ☐ 427 ☐ 428 ☐ 429 ☐ 430

Special Provisions (Chapter 5): ☐ 510.2 ☐ 510.3 ☐ 510.4 ☐ 510.5 ☐ 510.6 ☐ 510.7 ☐ 510.8 ☐ 510.9

Mixed Occupancy: ☐ No ☐ Yes Separation: 0 Hr. Exception:

☐ Non–separated Use (508.3) (508.3.1)
☐ Separated Use (508.4) ––See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area of each use shall not exceed 1.

Separated Use Formula 508.4.2:

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

$$\frac{\text{N/A}}{\text{N/A}} + \frac{\text{N/A}}{\text{N/A}} = \text{–} \leq 1.00$$

STORY NUMBER	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]
1	AIRCRAFT HANGAR	9,000	8500	6113	14613

1 Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = 120 (F)
b. Total Building Perimeter = 390 (P)
c. Ratio (F/P) = .31 (F/P)
d. W = Minimum width (weighted average) of public way = 150 (W) where W=(L1 x w1 + L2 x w2)/F (Equation 5–4)
e. Percent of frontage increase = If = 100 [F/P – 0.25] x W/30 = 71 (%) (Equation 5–5)

FRONTAGE INCREASE WORKSHEET for CALCULATIONS:

EXTERIOR WALL	(F) OPEN LENGTH (feet)	(P) TOTAL LENGTH (feet)	(W) (weighted average) WIDTH OF PUBLIC WAY OR OPEN SPACE (feet)	(%) FROM CALC. ABOVE	(B) FROM TABLE ABOVE	AREA INCREASE FOR COLUMN (C) ABOVE (% * TABLE AREA)
North	75	390	30			
South	75	390	30			
East	120	390	30			
West	120	390	26			
TOTAL	75	390	240	71	8500	(71*8500 =6113)
EXAMPLE	75	100	25	42	23,500	(.42*23,500 = 9,870)

2 Unlimited area applicable under conditions of Sections 507
3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (Section 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.

BUILDING CODE SUMMARY (continued)

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	65	31' – 0"	N/A
Building Height in Stories (Table 504.4)	3	1	N/A

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 ** (TABLE 601) REQ'D II–B	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	0	0	N/A	N/A	N/A	N/A
Bearing Walls Exterior	N/A	0	0	N/A	N/A	N/A	N/A
North	N/A	0	0	N/A	N/A	N/A	N/A
East	N/A	0	0	N/A	N/A	N/A	N/A
West	N/A	0	0	N/A	N/A	N/A	N/A
South	N/A	0	0	N/A	N/A	N/A	N/A
Interior	N/A	0	0	N/A	N/A	N/A	N/A
Nonbearing walls and partitions Exterior walls	N/A	0	0	N/A	N/A	N/A	N/A
North	N/A	0	0	N/A	N/A	N/A	N/A
East	N/A	0	0	N/A	N/A	N/A	N/A
West	N/A	0	0	N/A	N/A	N/A	N/A
South	N/A	0	0	N/A	N/A	N/A	N/A
Interior Non–Bearing Walls	N/A	0	0	N/A	N/A	N/A	N/A
Floor construction including supporting beams and joists		0	0	N/A	N/A	N/A	N/A
Floor Ceiling Assembly		0	0	N/A	N/A	N/A	N/A
Columns Supporting Floors		0	0	N/A	N/A	N/A	N/A
Roof construction including supporting beams and joists		0	0	N/A	N/A	N/A	N/A
Roof Ceiling Assembly		0	0	N/A	N/A	N/A	N/A
Columns Supporting Roof		0	0	N/A	N/A	N/A	N/A
Shaft Enclosures – Exit		0	0	N/A	N/A	N/A	N/A
Shaft Enclosures – Other		0	0	N/A	N/A	N/A	N/A
Corridor Separation		0	0	N/A	N/A	N/A	N/A
Occupancy / Fire Barrier Separation		0	0	N/A	P1	N/A	
Party/Fire Wall Separation		0	0	N/A	N/A	N/A	N/A
Smoke Barrier Separation		0	0				
Smoke Partition		0	0	N/A	N/A	N/A	N/A
OWNER/Dwelling Unit/ Sleeping Unit Separation		0	0	N/A	N/A	N/A	N/A
Incidental Use Separation		0	0	N/A	N/A	N/A	N/A

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

EXTERIOR WALL	FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINE	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
North	N/A	N/A	N/A	N/A
South	N/A	N/A	N/A	N/A
East	N/A	N/A	N/A	N/A
West	N/A	N/A	N/A	N/A

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:	☑ Yes	☐ No	
Exit Signs:	☑ Yes	☐ No	
Fire Alarm:	☐ Yes	☑ No	
Smoke Detection Systems:	☐ Yes	☑ No	Partial ☐ Duct Detectors
Carbon Monoxide Detection:	☐ Yes	☑ No	
Life Safety Systems Generator:	☐ Yes	☑ No	

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: LS

☐ 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 [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 (903)
☐ The square footage of each smoke compartment for Occupancy Classification I–II (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
NONE REQUIRED							

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 96" ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
SEE CIVIL DRAWING						
TOTAL						

BUILDING CODE SUMMARY (continued)

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATER CLOSETS MALE	WATER CLOSETS FEMALE	WATER CLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS/ TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE	SERVICE SINK
UTILITY (U)	0	0			0	0					0
PROVIDED (TOTAL)	0	0			0	0					0

***NOTE: THIS BUSINESS HAS OCCUPANT LOADS LESS THAN 25. NO HI–LOW DRINKING FOUNTAIN IS REQUIRED.

SPECIAL APPROVALS:

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

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: ☐ (If checked, the remainder of this section is not applicable.)
Exempt Building: ☐ Provide code or statutory reference:
Climate Zone: ☐ 3A ☑ 4A ☐ 5A HARNETT COUNTY
Method of Compliance:
Energy Code: ☐ Performance ☑ Prescriptive
ASHRAE 90.1: ☐ Performance ☐ Prescriptive
Other: ☐ Performance (specify source)
Value of total assembly: –

THERMAL ENVELOPE: (Prescriptive method only)
Roof/ceiling Assembly (each assembly)
Description of assembly: METAL BUILDING ROOF PANEL
U–Value of total assembly:
R–Value of insulation: R–10 + R–19 FC
Skylights in each assembly: NONE
U–Value of skylight:
Total square footage of skylights in each assembly:

Exterior Walls (each assembly)
Description of assembly: METAL BUILDING WALL PANEL WITH R–19 INSULATION
U–Value of total assembly:
R–Value of insulation: R–19
Openings (windows or doors with glazing)
U–Value of assembly: 0.31 (0.32 MAX)
Solar heat gain coefficient: 0.23 (0.25 MAX)
Projection factor:
Door R–Values: 2.7

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: N/A
U–Value of total assembly:
R–Value of insulation:

Floors slab on grade
Description of assembly: 6" CONCRETE SLAB
U–Value of total assembly:
R–Value of insulation:
Horizontal/vertical requirement:
slab heated:

MECHANICAL SUMMARY (SEE DRAWING SHEET M1)
ELECTRICAL SUMMARY (SEE DRAWING SHEET E1)

CUMBERLAND COUNTY BUILDING CODE SUMMARY for:

HARNETT REGIONAL AIRPORT HANGAR #2

497 AIRPORT RD
ERWIN, NORTH CAROLINA, 28339

JENKINS CONSULTING ENGINEERS, PA
CIVIL & STRUCTURAL ENGINEERING
CORPORATION NUMBER C–3070 – kelly@jenkinsce.pro
1906 McARTHUR RD. FAYETTEVILLE, NC 28311–1002
910.822.1724

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 42009 KELLY J. DODSON
05 AUGUST 2025

DESIGNED / CHECKED BY: KJD
DRAWN BY: BT
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FINAL DRAWING ☐ FOR REVIEW PURPOSES ONLY
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FINAL DRAWING ☑ FOR CONSTRUCTION

OWNER/TENANT:
CONTRACTOR/BUILDER:

PROJECT: HARNETT COUNTY AIRPORT HANGAR #2
497 AIRPORT RD. ERWIN, NC 28339

SHEET: BUILDING CODE SUMMARY

BCS

SCALE: 1/4" = 1'–0" SCALE: 1/2" = 1'–0" SCALE: 1" = 1'–0" SCALE: 3/4" = 1'–0" SCALE: 1/2" = 1'–0" SCALE: 3/16" = 1'–0" SCALE: 1/8" = 1'–0"

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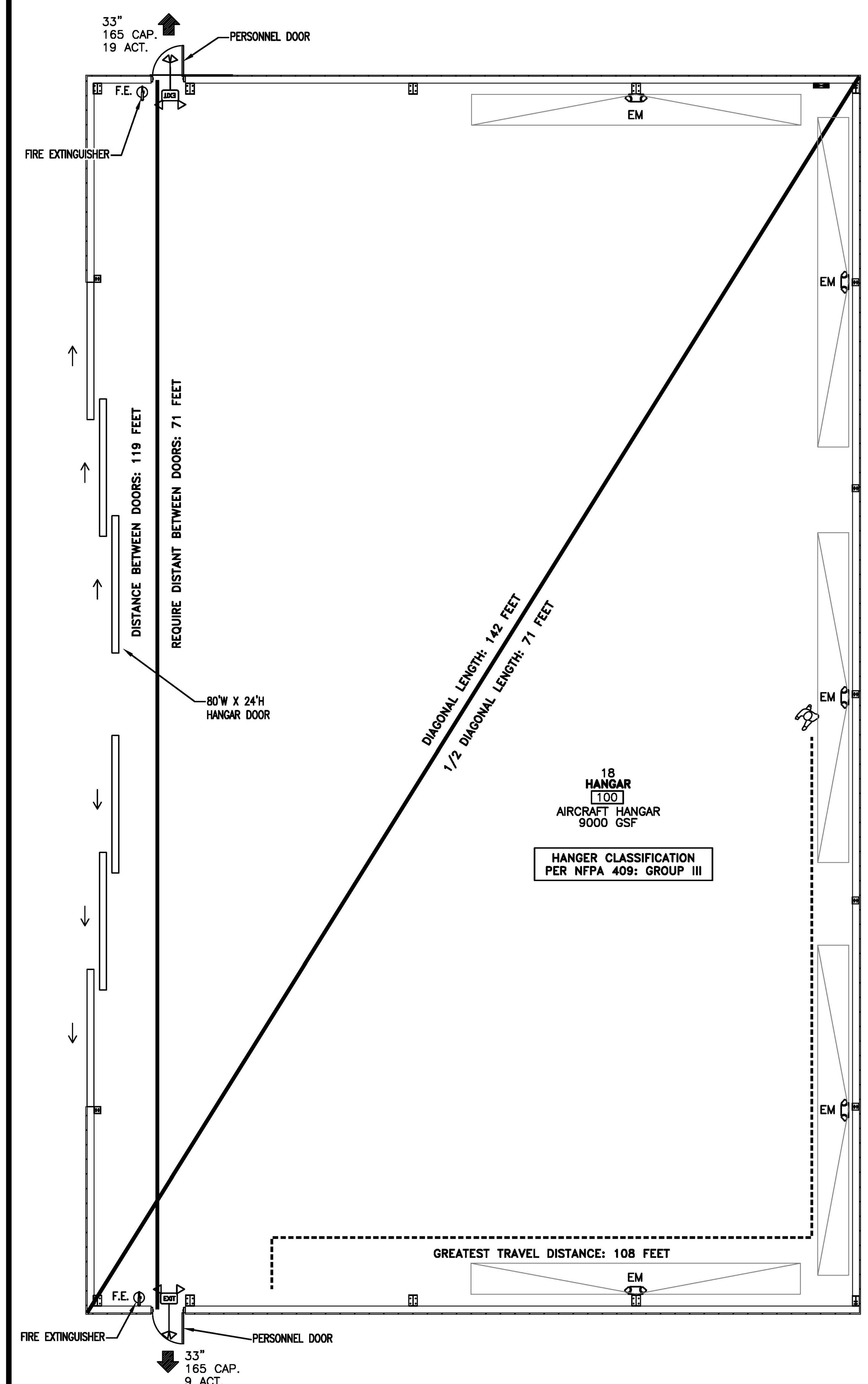

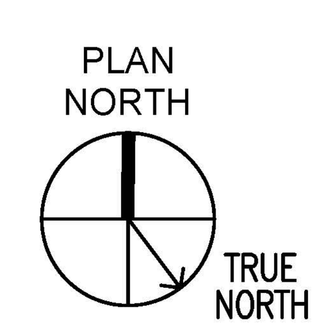

1 / LS — LIFE SAFETY / EGRESS PLANS

SCALE: 1/8" = 1'-0"

OCCUPANCY CLASSIFICATION per TABLE 1004.5						
SPACE NUMBER	CURRENT SPACE USE	FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	ROOM AREA (GROSS SF)	CALCULATED EGRESS OCCUPANCY TOTAL	ACTUAL BUILDING OCCUPANT TOTAL
100	HANGAR	AIRCRAFT HANGARS	500 GROSS	9000	18	18
TOTAL OCCUPANT COUNT FOR BUILDING & EGRESS CAPACITY					18	
THE EGRESS CAPACITY SHALL BE BASED UPON OCCUPANT LOAD OF 18 PERSONS (*) DENOTES OCCUPANT NUMBER ACCOUNTED FOR IN OCCUPANT TOTAL						

AIRCRAFT HANGAR

GROSS SQUARE FOOTAGE OF BUILDING 9000 SQ. FT.
TYPE OF CONSTRUCTION: II-B
BUILDING IS TO BE USED AS AN AIRCRAFT HANGAR (U)

OCCUPANT LOAD FOR CALCULATING EGRESS CAPACITY:
SPACE OCCUPANCY BY FUNCTION OF SPACE
SEE TABLE ON THIS SHEET FOR INDIVIDUAL SPACE TOTALS
TOTAL OCCUPANT LOAD BY AREAS = 18 PERSONS

THIS BUILDING IS NOT PROTECTED BY FIRE SPRINKLERS
THERE IS NO FIRE ALARM SYSTEM.
GREATEST TRAVEL DISTANCE SHOWN: 108 FEET. (PER 1017)
MAXIMUM ALLOWABLE TRAVEL DISTANCE: 300 FEET (PER TABLE 1017.2)
THE COMMON PATH OF TRAVEL IS LESS THAN 100 FEET. (PER 1006.2.1)
THERE ARE NO DEAD END CORRIDORS OVER 50 FEET. (PER 1020.4)

EXIT WIDTH CALCULATIONS:
18 PERSONS * 0.2"/OCCUPANT = 3.6" REQUIRED, 66" TOTAL PROVIDED. (PER 1005.1)
NUMBER OF EXITS REQUIRED: TWO (2) ACCESSIBLE
NUMBER OF EXITS PROVIDED: TWO (2) ACCESSIBLE

EGRESS DOORS DO NOT REQUIRE PANIC HARDWARE. (PER 1010.1.10)
DOORS DO NOT HAVE DELAYED EGRESS LOCKS (PER 1010.1.9.7)
DOORS DO NOT HAVE ELECTROMAGNETIC EGRESS LOCKS (PER 1010.1.9.9)
DOORS DO NOT HAVE HOLD OPEN DEVICES.
THERE ARE NO EMERGENCY ESCAPE WINDOWS (PER 1030)
NO. OF FIRE EXTINGUISHERS PROVIDED:
PROVIDE TWO (2) NEW FIRE EXTINGUISHER AT THIS BUILDING
FIRE EXTINGUISHER FOR CLASS A FIRE HAZARDS REQUIRE NO GREATER THAN 75 FT OF MAXIMUM TRAVEL DISTANCE IN LOW, ORDINARY AND EXTRA HAZARD OCCUPANCY.

LEGEND

SYMBOL	DESCRIPTION
F.E.	ABC FIRE EXTINGUISHER SUGGESTED LOCATION
	GREATEST TRAVEL DISTANCE
33"	EXIT WIDTH, 36" - 3 = 33" CLEAR WIDTH.
165 CAP. 22 ACT.	EXIT CAPACITY (NUMBER OF PERSONS) ACTUAL OCCUPANT LOAD FOR EXIT DOOR
EXIT	EXIT SIGN
EM	EMERGENCY LIGHT
36"	AISLE WIDTH WHERE SHOWN
	EXIT SIGN WITH EMERGENCY LIGHTING
ROOM LABEL	**DESCRIPTION**
2	OCCUPANT TOTAL
HANGAR	ROOM NAME
100	ROOM NUMBER
AIRCRAFT HANGAR	FUNCTION TYPE
100 SF	SPACE AREA

JENKINS CONSULTING ENGINEERS, PA
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CORPORATION NUMBER C-3070 kellyd@jenkinsce.pro
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NORTH CAROLINA PROFESSIONAL SEAL 42009 ENGINEER KELLY J. DODSON
05 AUGUST 2025

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FINAL DRAWING [✓] FOR CONSTRUCTION

OWNER/TENANT: - -
CONTRACTOR/BUILDER: - -

PROJECT: HARNETT COUNTY AIRPORT HANGAR #2
497 AIRPORT RD. ERWIN, NC 28339

SHEET: BUILDING LIFE SAFETY - EGRESS PLAN

LS

Drawing File: H:\2025\Harnett County Airport #2 PID 2025-07-21\DWG\Harnett-Airport#2-29 July 2025.dwg
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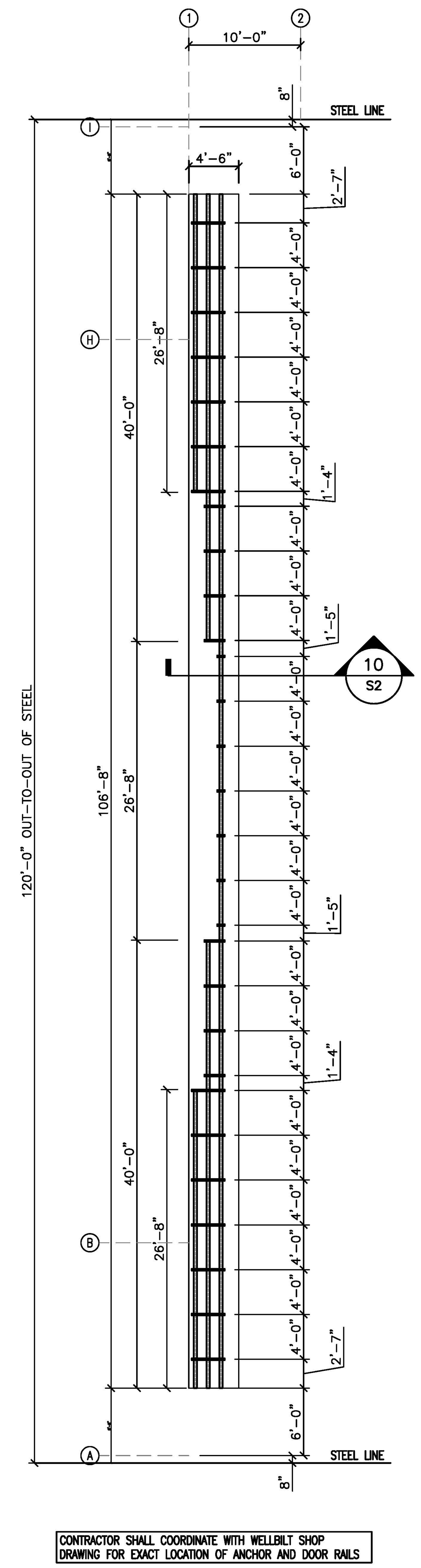
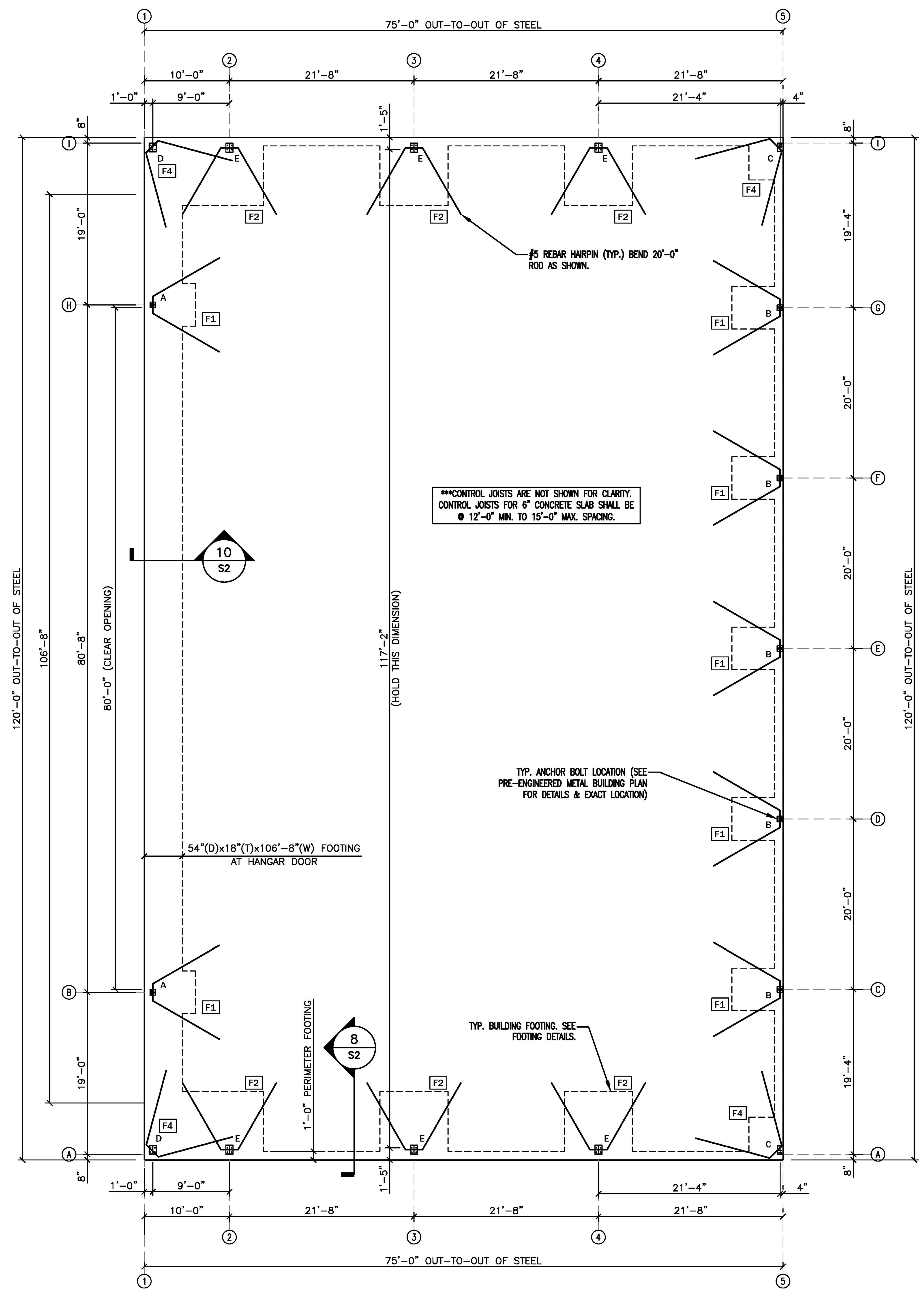
Plotted Date: Aug 06, 2025 - 10:00am



2/S1 HANGAR DOOR ANCHOR PLAN

SCALE: 1/8" = 1'-0"



1/S1 PIER & ANCHOR BOLT PLAN

SCALE: 1/8" = 1'-0"

LEGEND

F3 FOOTING DETAIL NUMBER, SEE DETAIL ON SHEET S2

B ANCHOR PLATE, SEE PRE-ENGINEERED METAL BUILDING PLAN FOR DETAIL

JENKINS CONSULTING ENGINEERS, PA
OFFICE in EUREKA SPRINGS, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 42009 ENGINEER

05 AUGUST 2025

DESIGNED / CHECKED BY: KJD
DRAWN BY: BT
PROJECT #: 2025-07-21
DATE: 05 AUGUST 2025

FINAL DRAWING ☐ FOR REVIEW PURPOSES ONLY
PRELIMINARY ☐ FOR DESIGN DEVELOPMENT ONLY
FINAL DRAWING ☑ FOR CONSTRUCTION

OWNER/TENANT: -

CONTRACTOR/BUILDER: -

PROJECT: HARNETT COUNTY AIRPORT HANGAR #2
497 AIRPORT RD. ERWIN, NC 28339

SHEET: FOUNDATION PLAN & ANCHOR BOLT PLAN

S1

REINFORCING STEEL
ALL REINFORCING STEEL SHALL BE DEFORMED STEEL BARS CONFORMING TO A.S.T.M. A615, GRADE 60.
ALL REINFORCING STEEL SHALL BE MANUFACTURED, DETAILED, FABRICATED AND PLACED IN ACCORDANCE
WITH A.C.I. 315R, 318R AND A.C.I. SP 66.
WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A185, IN AS LONG A LENGTH AS IS PRACTICAL. WELDED
WIRE FABRIC SHALL BE LAPPED AT LEAST ONE GRID WIDTH PLUS 2".
REINFORCEMENT SHALL BE BENT COLD AND SHALL NOT BE WELDED.

SPLICES:
REINFORCEMENT IN CONCRETE AND MASONRY SHALL HAVE LAP LENGTHS AS FOLLOWS, UNLESS OTHERWISE
SPECIFIED ON DRAWINGS:

BAR SIZE:	IN CONCRETE:	IN MASONRY:
#3	1'-6"	2'-0"
#4	2'-0"	2'-6"
#5	2'-6"	3'-0"

PLACEMENT:
REINFORCEMENT SHALL BE ACCURATELY PLACED AND SUPPORTED BY CONCRETE, METAL, OR OTHER APPROVED
CHAIRS, SPACERS OR TIES, AND SECURED AGAINST DISPLACEMENT DURING CONCRETE OR GROUT PLACEMENT.

EXCEPT WHERE OTHERWISE NOTED, REINFORCEMENT SHALL HAVE CONCRETE COVER AS FOLLOWS:

CONCRETE DEPOSITED AGAINST EARTH	3"
FORMED CONCRETE AGAINST EARTH	2"
EXTERIOR FACES OF WALLS	1"
TO TOP OF SLABS-ON-GRADE	3/4"

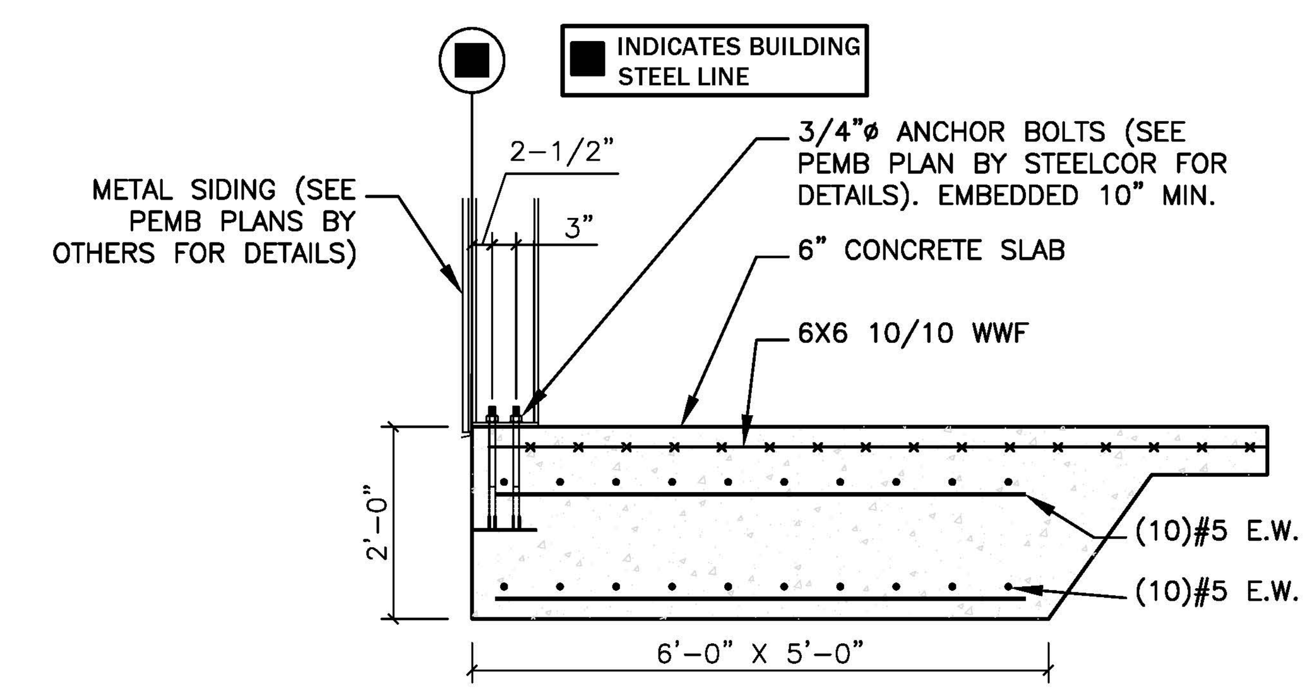
ALL SCALES, LOOSE RUST, GREASE OR DIRT SHALL BE REMOVED FROM THE REINFORCING BEFORE IT IS PLACED.
PROVIDE #5 "HAIRPIN" X 20' LONG AT EXTERIOR COLUMN LINES.
ANCHOR BOLTS SHALL BE (A-3077) HIGH STRENGTH.

SOIL TREATMENT:
ADMINISTRATION AS ACCEPTABLE

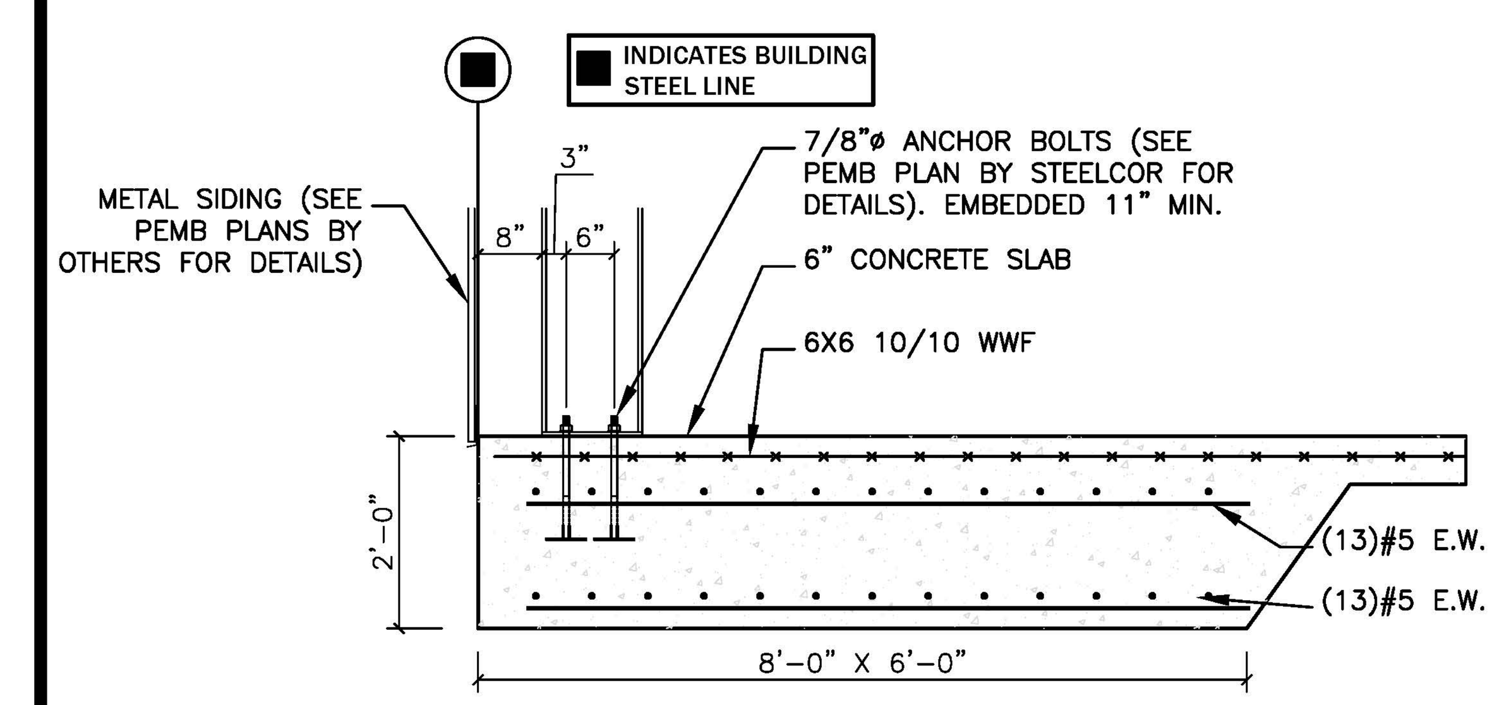
GENERAL CONDITIONS
THE GENERAL CONTRACTOR SHALL MAKE ADEQUATE SANITARY PROVISIONS.
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SAFETY AND COMPLIANCE WITH THE REQUIREMENTS
OF THE OCCUPATIONAL SAFETY AND HEALTH ACT AS IT MAY REGARD ANY PHASE OF THE WORK ON THIS PROJECT.

SOIL COMPACTION AND TESTING
THE GENERAL CONTRACTOR SHALL OBTAIN THE SERVICES OF A TESTING LABORATORY, SUCH AS S&ME OR LAW
ENGINEERING FOR THE PURPOSE OF DETERMINING THE SUITABILITY OF THE SUBSURFACE CONDITIONS AND THE
BEARING CAPACITIES OF ALL AREAS BELOW CONCRETE (2000psf ASSUMED)..
THE SOIL AND BEARING REPORT SHALL BE SUBMITTED PRIOR TO EXCAVATING, WHERE POSSIBLE, BUT PRIOR TO
PLACEMENT OF ANY REINFORCING AND CONCRETE.

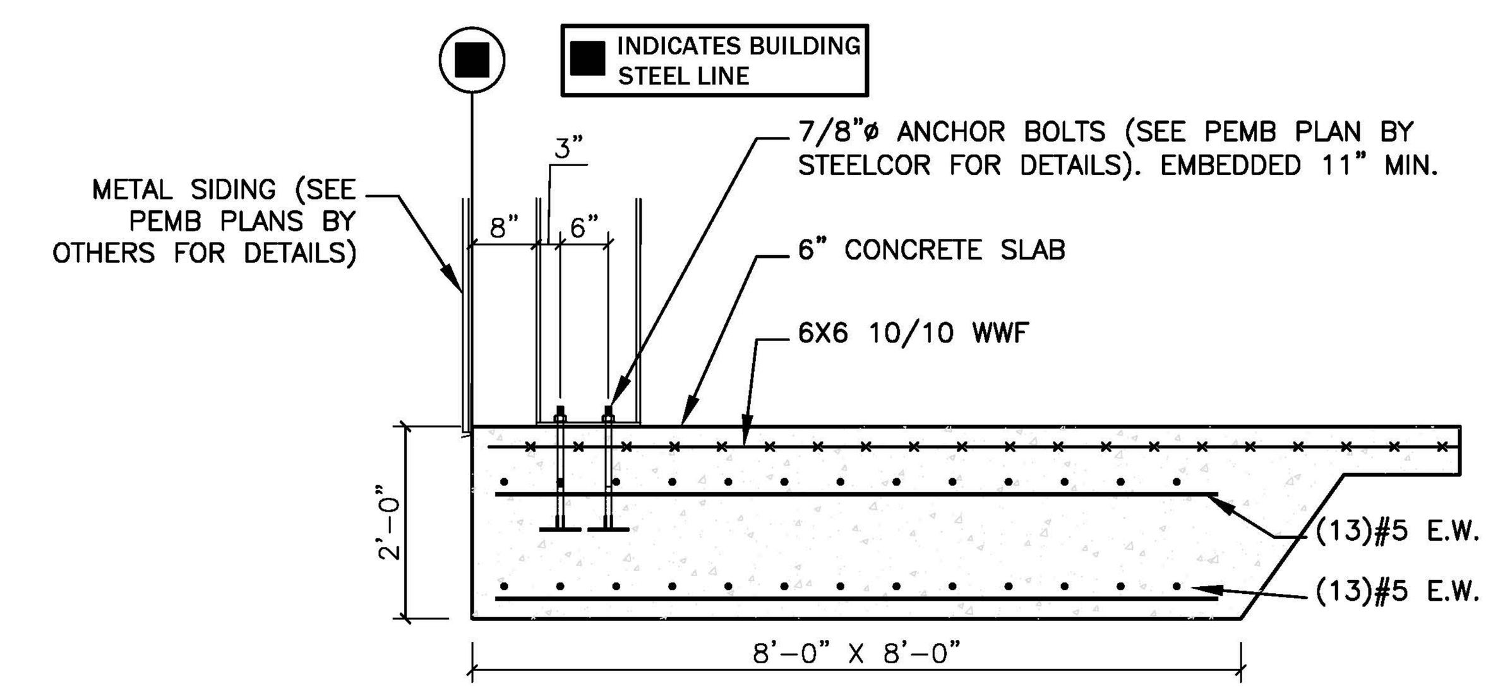
CONCRETE WORK
1. ALL CONCRETE FOR THE PROJECT SHALL BE "READY MIX" AND SHALL COMPLY WITH ASTM C-94. ALL SECTIONS OF THE CONCRETE WORK SHALL COMPLY WITH ALL A.S.T.M. AND A.C.I. REQUIREMENTS.
2. FORM WORK – ALL FORMS TO BE CAREFULLY BUILT AND SECURED IN PLACE IN SUCH A MANNER AS TO HAVE SUFFICIENT STRENGTH TO CARRY THE DEAD WEIGHT OF THE CONSTRUCTION AS A LIQUID, WITHOUT DEFLECTION OR VIBRATION. FORMS TO BE BUILT TIGHT, TRUE TO POSITION AND DIRECTION, THOROUGHLY BRACED, WIRED AND SPIKED OR OTHERWISE FASTENED TOGETHER.
3. CONCRETE – MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH AT 28 DAYS, MINIMUM OF FIVE SACKS OF CEMENT PER CUBIC YARD OF CONCRETE, MAXIMUM OF 4" SLUMP.
4. FINISHING – IN ACCORDANCE WITH THE LATEST A.C.I. CODE, PLUMB, LEVEL, TRUE IN LINE, FREE OF HONEYCOMB. BUILDING SLAB SHALL HAVE A HARD STEEL TROWEL FINISH. WALKS SHALL HAVE BROOMED FINISH AND EXPANSION JOINTS AT APPROXIMATELY 50'-0" O.C. AND DUMMY JOINTS AS SHOWN ON THE SITE PLAN.
5. REMOVAL OF FORMS – FORMS SHALL BE CAREFULLY REMOVED SO AS NOT TO IMPAIR THE FACE OF THE CONCRETE. IMMEDIATELY AFTER THE FORMS ARE REMOVED ALL DAMAGE OF IMPERFECT WORK SHALL BE PATCHED IN A NEAT AND WORKMANLIKE MANNER OR IF BADLY DAMAGED, IN THE OPINION OF THE OWNER, THE WORK SHALL BE REBUILT. THE MINIMUM TIME BEFORE ANY FORMS CAN BE REMOVED IS SEVEN (7) DAYS FOR SUCH MEMBERS AS ARE SUBJECT TO BENDING STRESSES, SUCH AS SLABS.
6. CURING – USE MEMBRANE CURING METHOD. USE MFG. RATE, SPRAY IMMEDIATELY FOLLOWING FINISHING. PROTECT FROM FREEZING WEATHER, CURE A TOTAL OF 28 DAYS USING A.C.I. METHODS.



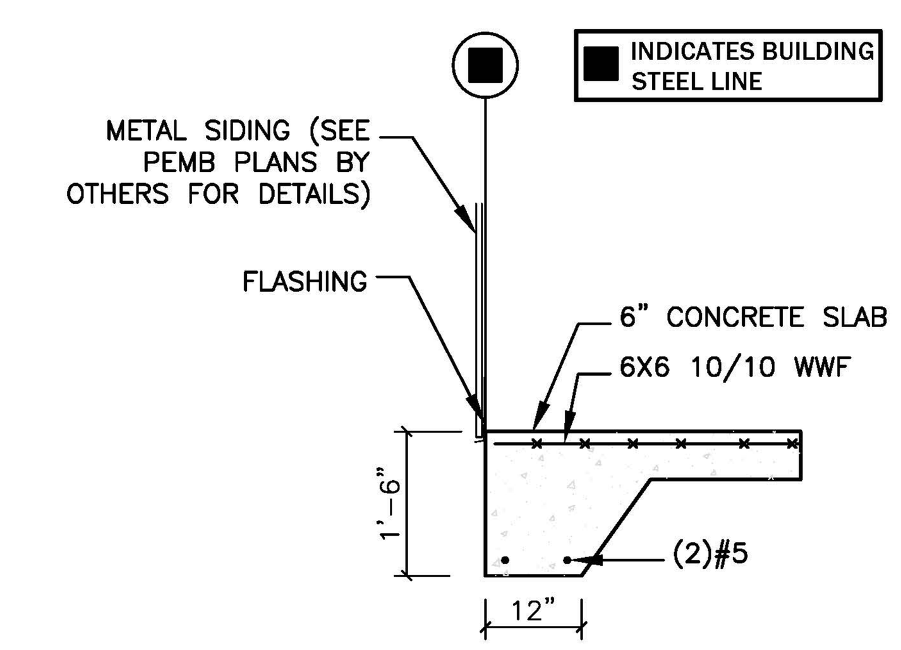
3 / S2 FOOTING DETAIL F1 (B)
1/2" = 1'-0"



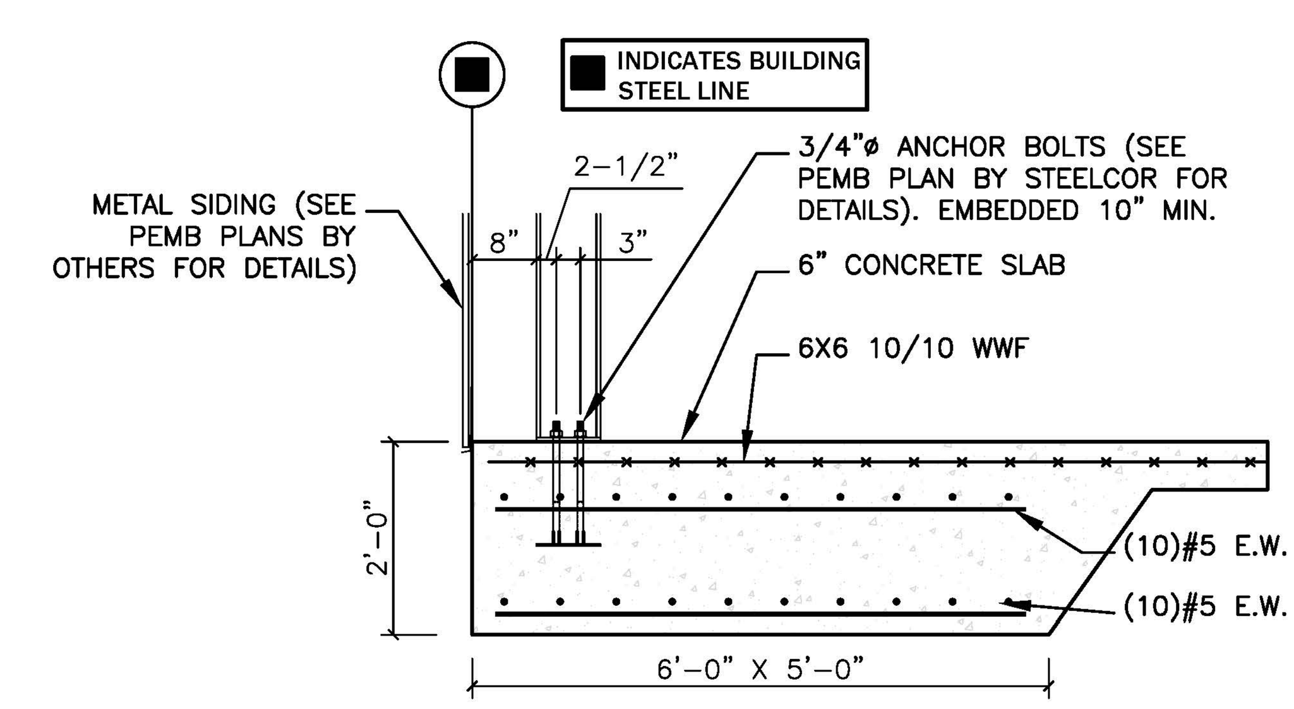
7 / S2 FOOTING DETAIL F4 (D)
1/2" = 1'-0"



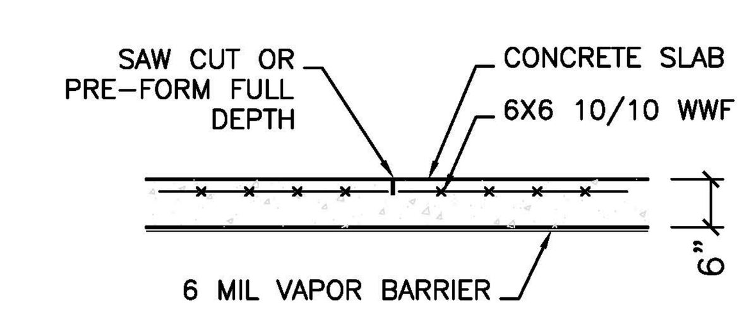
4 / S2 FOOTING DETAIL F2 (E)
1/2" = 1'-0"



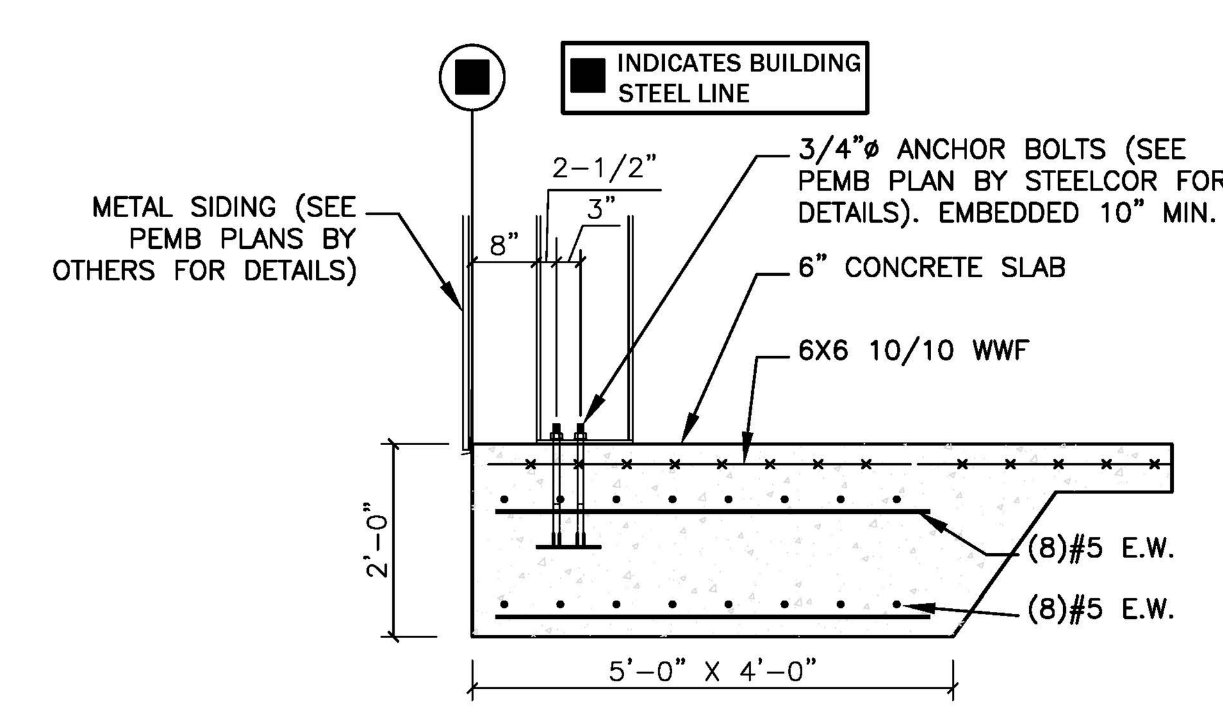
8 / S2 PERIMETER FOOTING DETAIL
1/2" = 1'-0"



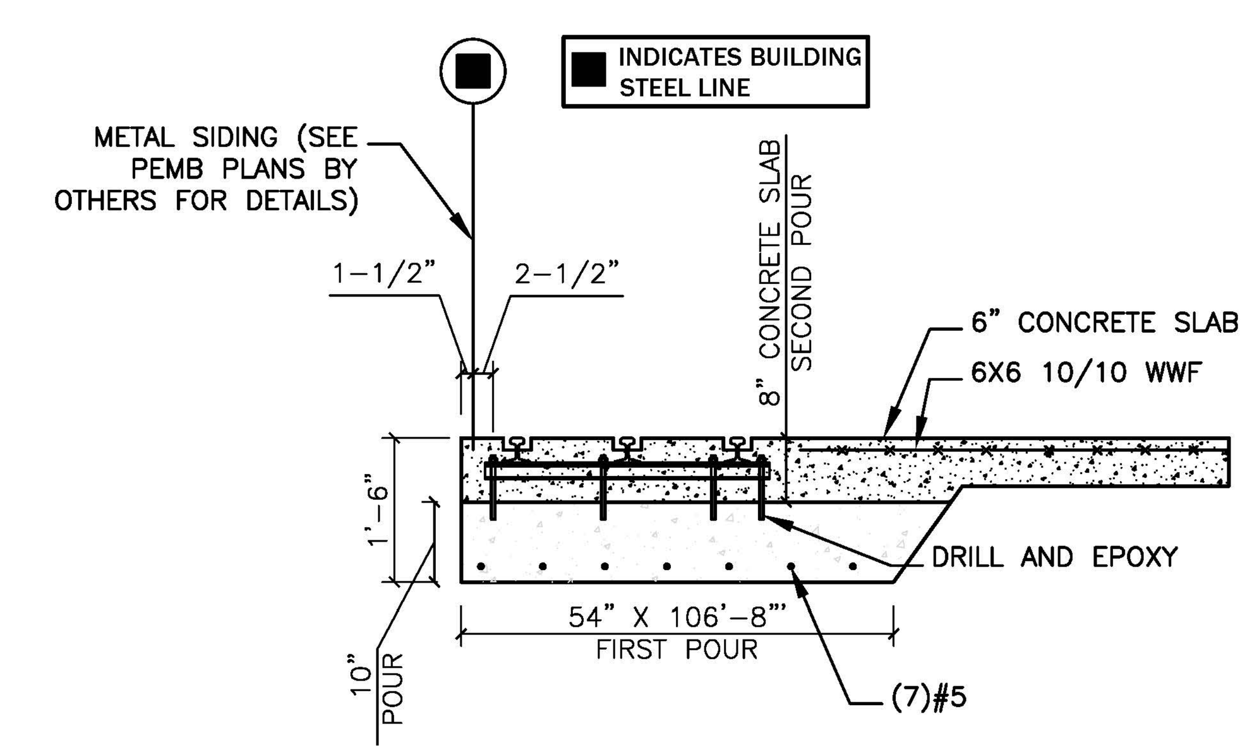
5 / S2 FOOTING DETAIL F1 (A)
1/2" = 1'-0"



9 / S2 CONTROL JOINT DETAIL
1/2" = 1'-0"



6 / S2 FOOTING DETAIL F4 (C)
1/2" = 1'-0"



10 / S2 HANGAR DOOR ANCHOR BOLT

JENKINS CONSULTING ENGINEERS, PA
OFFICE in EUREKA SPRINGS, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 42009 ENGINEER
05 AUGUST 2025

DESIGNED / CHECKED BY: KJD
DRAWN BY: BT
PROJECT #: 2025-07-21
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FINAL DRAWING ☐ FOR REVIEW PURPOSES ONLY
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OWNER/TENANT:
CONTRACTOR/BUILDER:

PROJECT: HARNETT COUNTY AIRPORT HANGAR #2
497 AIRPORT RD. ERWIN, NC 28339

SHEET: FOUNDATION & FOOTING DETAILS

S2

DOOR SCHEDULE

DOOR NO	DOOR SIZE: WIDTH	DOOR SIZE: HEIGHT	DOOR SIZE: THICKNESS	DOOR: STYLE	DOOR: MATERIAL	DOOR: FINISH	FRAME: TYPE	FRAME: MATERIAL	FRAME: FINISH	FIRE RATING	HARDWARE: ENTRANCE LOCK	STOREROOM LOCK	PASSAGE SET	PRIVACY SET	PUSH/PULL	PANIC SET	CLOSER	STOP	THRESHOLD	KICK PLATES	WEATHERSTRIPPING	AIR CURTAIN	REMARKS
																							NOTE: G.C. TO REVIEW ALL HARDWARE SETS, MATERIAL AND FINISHES WITH OWNER BEFORE ORDER & INSTALLATION
D01	80'-0" X 24'-0"			SEE WELLBILT- HANGAR DOOR DRAWING FOR DETAILS																			6 PANEL BIPARTING ROLLING HANGAR DOOR
D02	3'-0" X 7'-0"			A	M	P	1	M	P		X						X	X	X				EXTERIOR HINGED SINGLE DOOR – HANGAR
D03	3'-0" X 7'-0"			A	M	P	1	M	P		X						X	X	X				EXTERIOR HINGED SINGLE DOOR – HANGAR

****NOTE: ALL NEW HARDWARE TO BE LEVER ADA ACCEPTABLE
ALL THRESHOLDS TO MEET ADA SPECIFICATIONS

NOTES:

1. APPLY 2 COATS OF SEMI-GLOSS TO ALL WOOD DOORS.
2. ALL EXIT DOORS TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OF EFFORT. ALL HARDWARE MUST BE DIRECT ACTING REQUIRING NOT MORE THAN ONE OPERATION.
3. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MINIMUM AND 48" MAXIMUM ABOVE THE FLOOR PER ICC/ANSI A117.1-2009 SECTIONS 404.2.6& 404.2.7
4. G.C. TO REVIEW ALL HARDWARE SETS WITH OWNER BEFORE INSTALLATION
5. PROVIDE TRANSITION STRIPS AT ALL FLOORING MATERIAL CHANGES

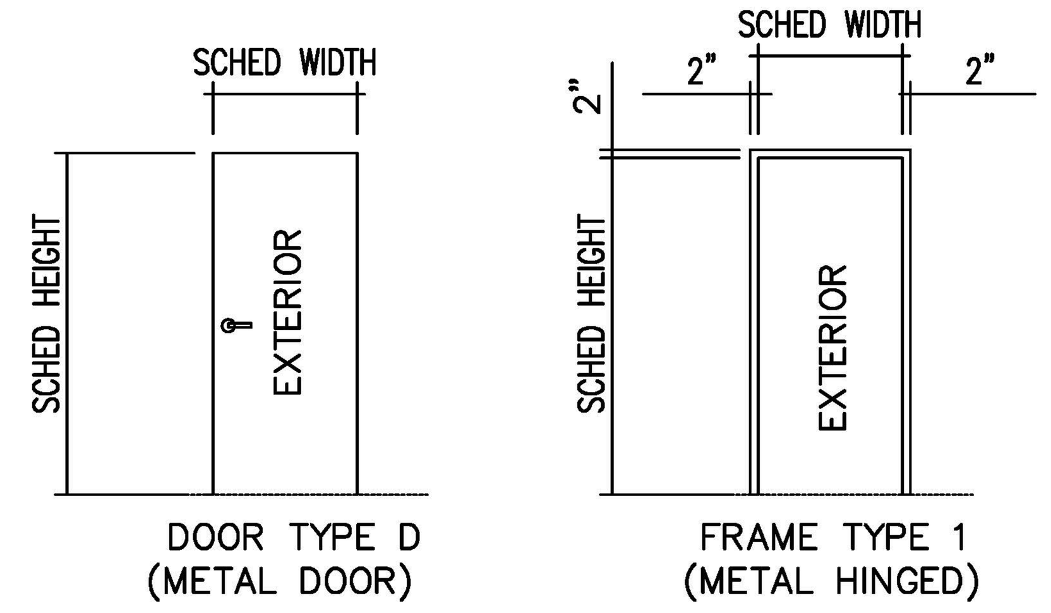
PASSAGE SET: (CLOSET & HALL) PASSAGE LOCKSETS KEEP DOORS FIRMLY CLOSED, BUT DO NOT ACTUALLY LOCK. BOTH LEVERS ALWAYS TURN FREE WITH NO LOCK CYLINDER OR PROVISION FOR A KEY.

PRIVACY SET: (RESTROOM) PRIVACY LOCKSETS ARE LOCKED WITH AN INSIDE PUSH-BUTTON. TURNING THE INSIDE KNOB OR LEVER RELEASES THE LOCK. A SMALL SCREWDRIVER CAN BE USED AS AN EMERGENCY KEY, FROM THE OUTSIDE, IF NECESSARY.

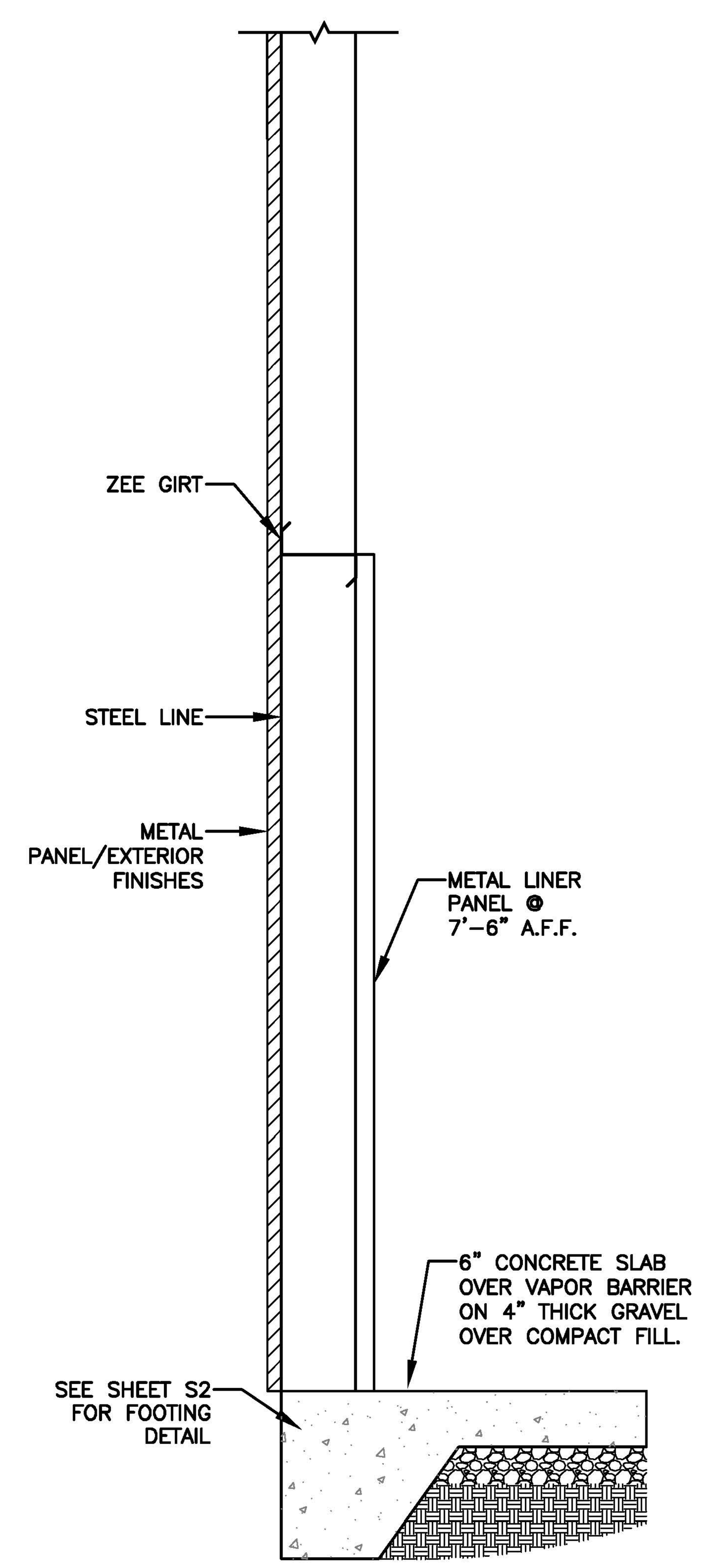
ENTRANCE LOCK: (ENTRY) ENTRANCE LOCKED BY PUSHING AND TURNING A BUTTON AND UNLOCKED BY THE KEY UNTIL THE INSIDE BUTTON IS MANUALLY UNLOCKED. THEY ARE ALSO AVAILABLE WITH PUSHBUTTON LOCKING, IN WHICH PUSHING THE BUTTON LOCKS THE OUTSIDE KNOB OR LEVER UNTIL IT IS UNLOCKED BY KEY OR BY TURNING THE INSIDE KNOB OR LEVER. THE INSIDE KNOB OR LEVER IS ALWAYS FREE FOR IMMEDIATE EXIT.

DOOR SCHEDULE LEGEND

H	HEIGHT	HM	HOLLOW METAL
W	WIDE	P	PAINT
ALUM	ALUMINUM	S	STAIN
WD	WOOD-SOLID CORE	M	METAL
T	THICKNESS	WI	WROUGHT IRON
		VA/B	VERIFY ANODIZED OR BRONZE

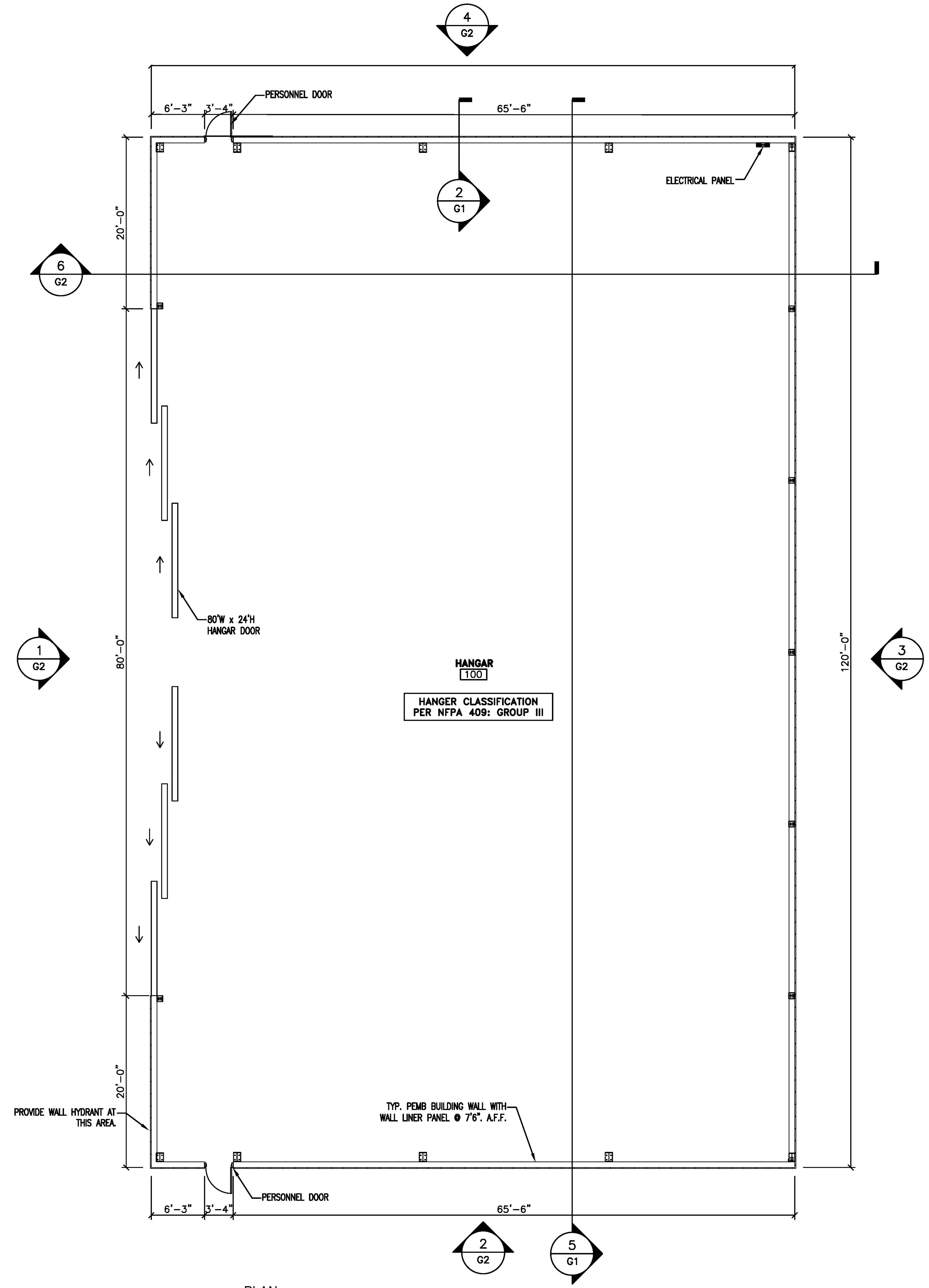


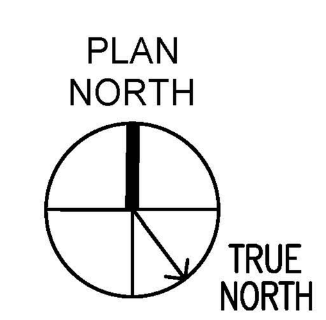
DOOR & FRAME STYLES



2 G1 WALL SECTION

0 8" 1'-4" 2'-8"
SCALE: 3/4" = 1'-0"





1 G1 FLOOR PLAN

0 4' 8' 16'
SCALE: 1/8" = 1'-0"

JENKINS CONSULTING ENGINEERS, PA
OFFICE in EUREKA SPRINGS, NORTH CAROLINA
CORPORATION NUMBER C-3070 kellyd@jenkinsce.pro
1606 McARTHUR RD. FAYETTEVILLE, NC 28311-1002
910.822.1724

NORTH CAROLINA PROFESSIONAL SEAL 42009 ENGINEER KELLY DODSON
05 AUGUST 2025

DESIGNED / CHECKED BY: KJD
DRAWN BY: BT
PROJECT #: 2025-07-21
DATE: 05 AUGUST 2025

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-
-

CONTRACTOR/BUILDER:
-
-

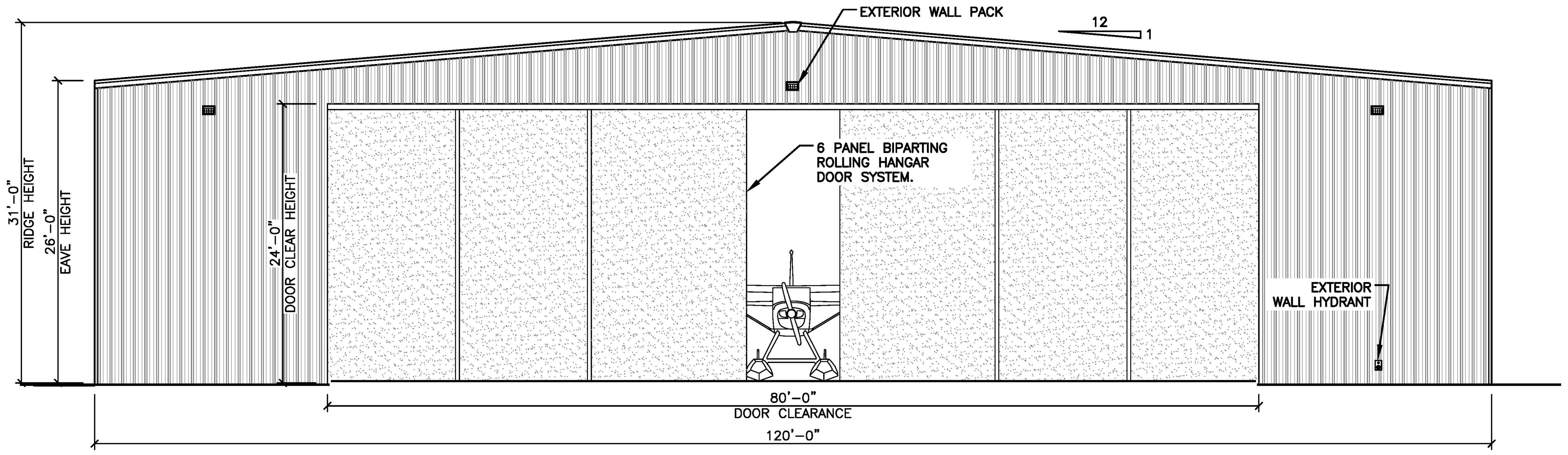
PROJECT:
HARNETT COUNTY AIRPORT HANGAR #2
497 AIRPORT RD. ERWIN, NC 28339

SHEET:
BUILDING FLOOR PLAN

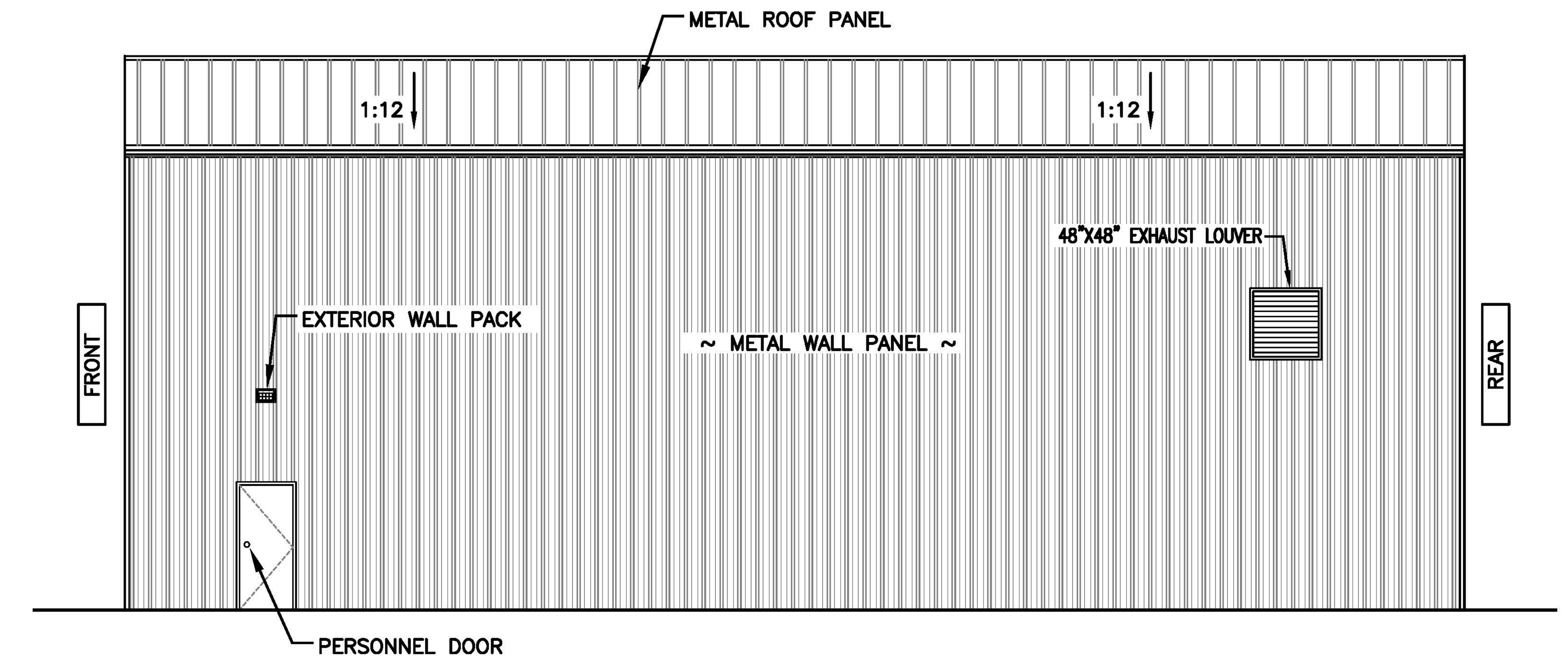
G1

SCALE: 1-1/2" = 1'-0" · SCALE: 1" = 1'-0" · SCALE: 3/4" = 1'-0" · SCALE: 1/2" = 1'-0" · SCALE: 1/4" = 1'-0" · SCALE: 3/16" = 1'-0" · SCALE: 1/8" = 1'-0"

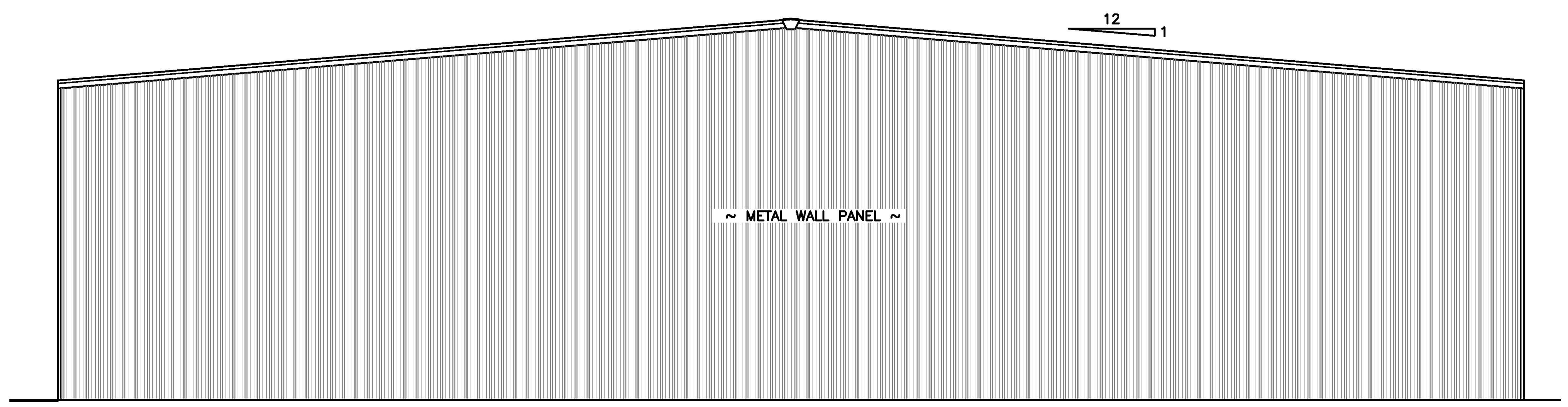
Drawing File: H:\2025\Harnett County Airport #2 PID 2025-07-21\DWG\Harnett-Airport#2-29 July 2025.dwg
Plotted By: bost
Plotted Date: Aug 05, 2025 - 3:36pm



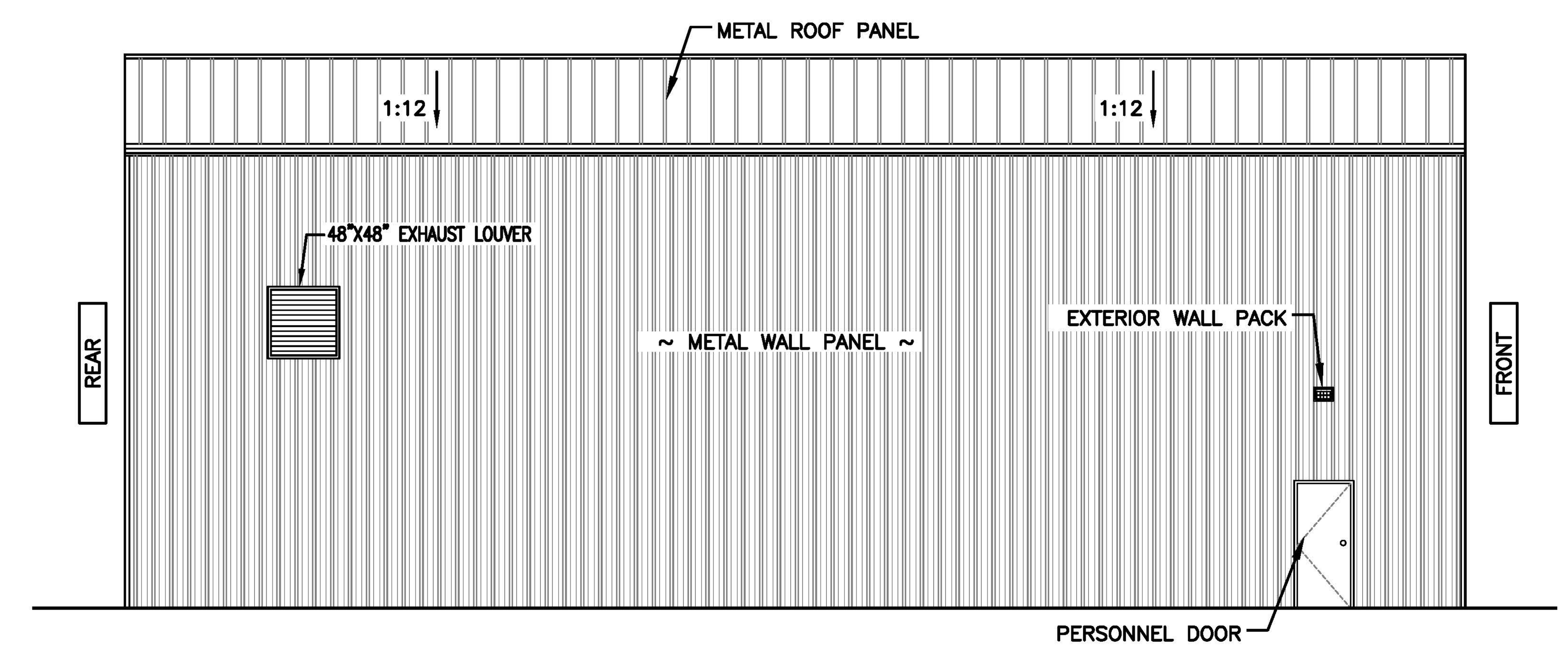
1 G2 FRONT ELEVATION
SCALE: 1/8" = 1'-0"



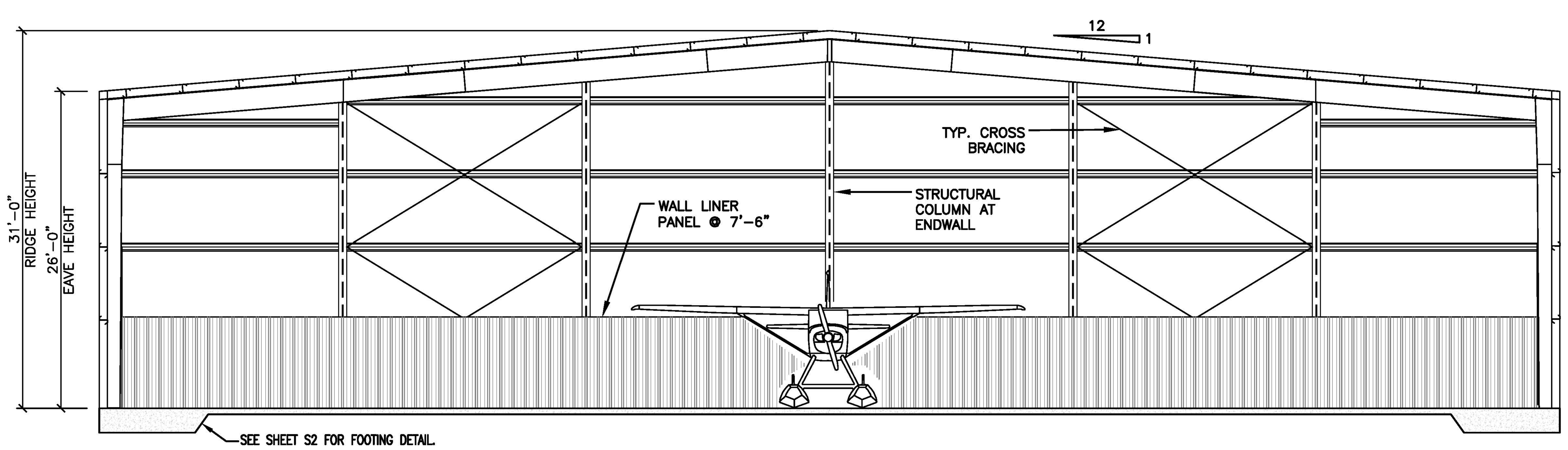
2 G2 RIGHT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



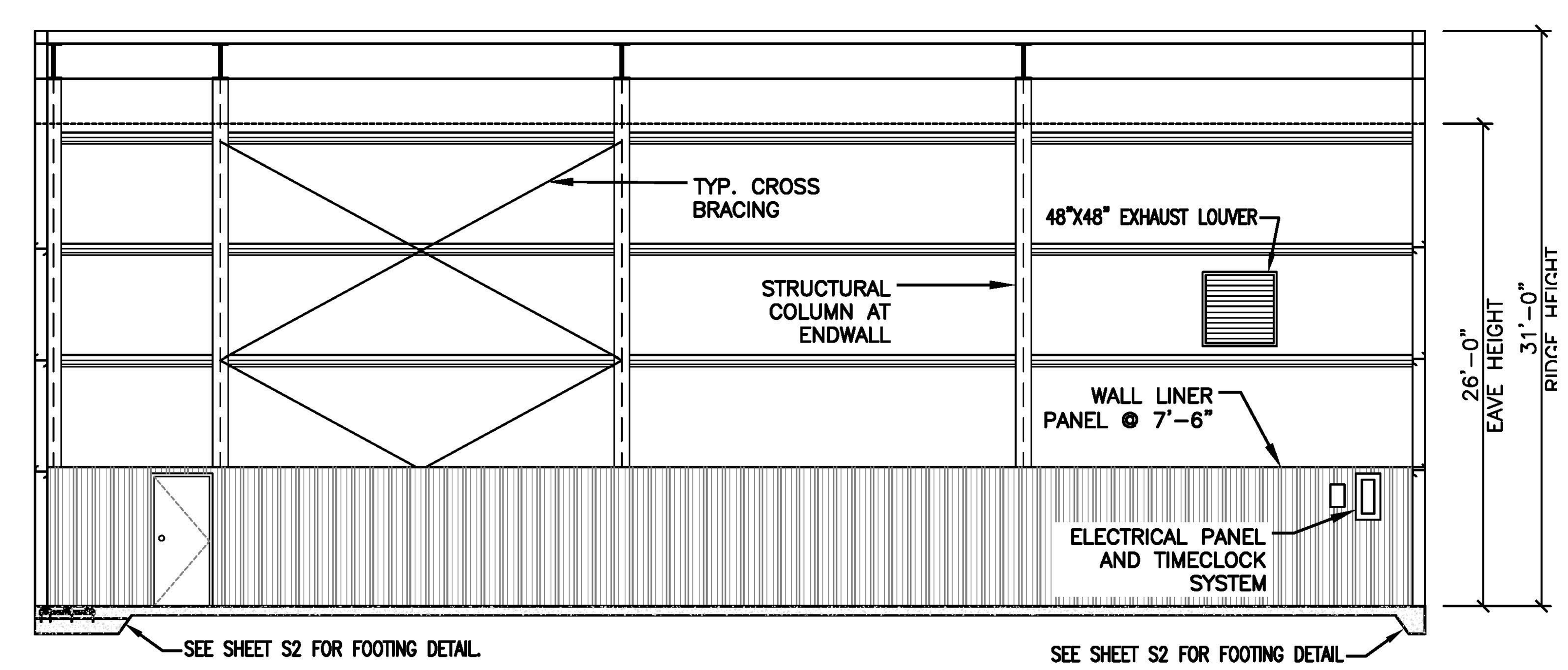
3 G2 REAR ELEVATION
SCALE: 1/8" = 1'-0"



4 G2 LEFT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



5 G2 BUILDING SECTION
SCALE: 1/8" = 1'-0"



6 G2 BUILDING SECTION
SCALE: 1/8" = 1'-0"

JENKINS CONSULTING ENGINEERS, PA
OFFICE in EUREKA SPRINGS, NORTH CAROLINA
CORPORATION NUMBER C-3070
1606 BLACKTHORN RD. FAYETTEVILLE, NC 28311-1002
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 42009
05 AUGUST 2025

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PROJECT: HARNETT COUNTY AIRPORT HANGAR #2
497 AIRPORT RD. ERWIN, NC 28339

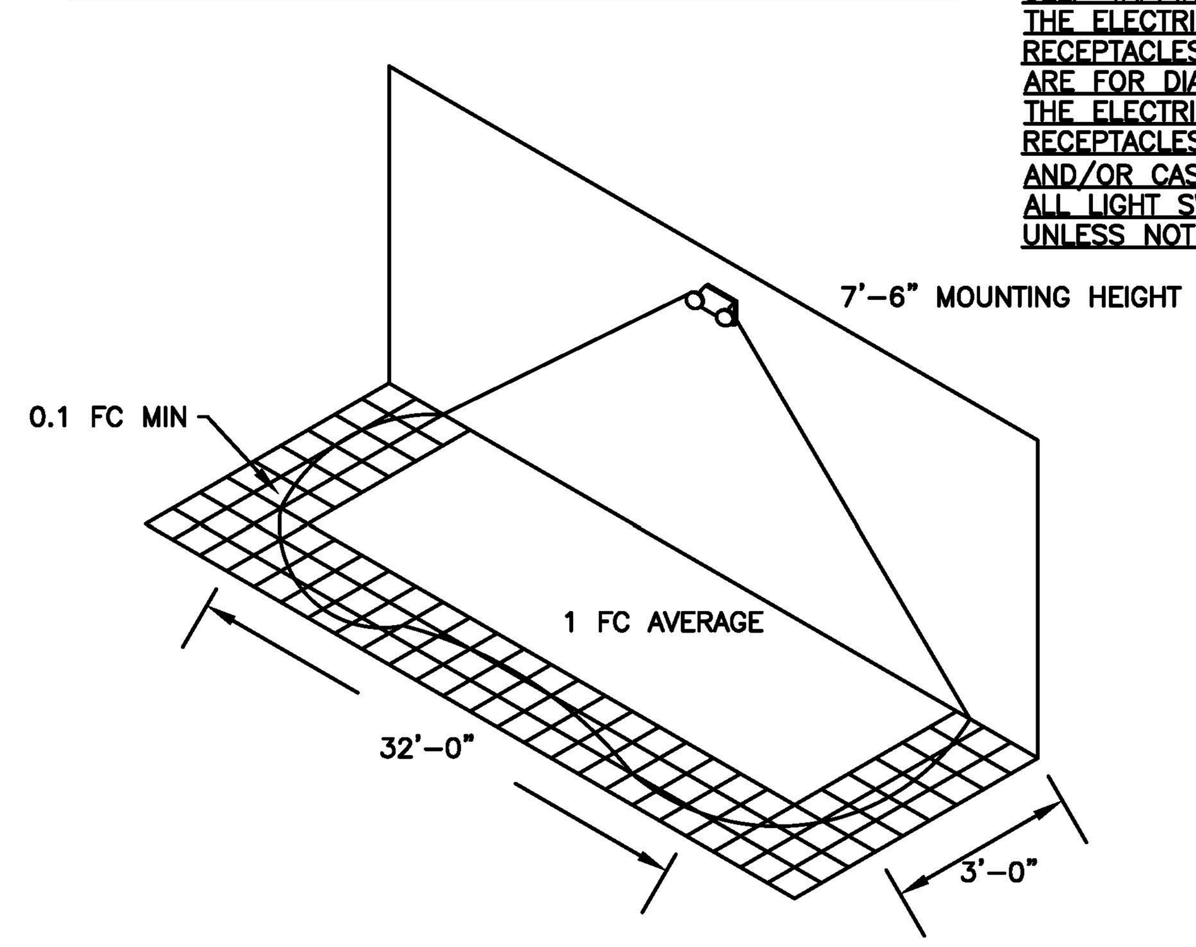
SHEET: BUILDING ELEVATIONS & SECTIONS

G2

Drawing File: H:\2025\Harnett County Airport #2 PID 2025-07-21\DWG\Harnett-Airport#2-29 July 2025.dwg
Plotted Date: Aug 05, 2025

ELECTRICAL LEGEND

Symbol	Description
	DUPLEX RECEPTACLE; MOUNT AT 18" A.F.F.
TR	DUPLEX RECEPTACLE; MOUNT AT 18" A.F.F.; TAMPER RESISTANT
GFCI	DUPLEX RECEPTACLE; GROUND FAULT CIRCUIT INTERRUPTER
WP/GFCI	DUPLEX RECEPTACLE; WEATHERPROOF GROUND FAULT CIRCUIT INTERRUPTER
	QUAD RECEPTACLE; MOUNT AT 18" A.F.F.
	2 POLE 208/240V RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	FLOOR MOUNTED RECEPTACLE
	SINGLE POLE POWER/LIGHTING HOMERUN
	2-POLE POWER HOMERUN
	3-POLE POWER HOMERUN (3 PHASE)
	WALL MOUNTED DATA OUTLET
	WALL MOUNTED VOICE (TELEPHONE) OUTLET
	WALL MOUNTED VOICE/DATA OUTLET
TC	TIMECLOCK
TV	TELEVISION OUTLET
	DISCONNECT
J	JUNCTION BOX
	POWER PANEL
$	SWITCH
$3	3-WAY SWITCH
$D	SWITCH WITH DIMMER
OS	OCCUPANCY SENSOR WITH MANUAL OVERRIDE
	LAY-IN/SURFACE MOUNTED LED LIGHT FIXTURE
	LAY-IN/SURFACE MOUNTED LED; NIGHT LIGHT
	PENDANT LIGHT
	CAN LIGHT
	EMERGENCY LIGHT
EXIT	EXIT/EMERGENCY COMBO
EXIT	EXIT LIGHT
	REMOTE HEAD FOR EXIT LIGHTING
	EXTERIOR MOUNTED WALL PACK



ASSUMES OPEN SPACE WITH NO OBSTRUCTIONS, MOUNTING HEIGHT; 7'-6"; 10'-0" CEILING HEIGHT, AND REFLECTANCES 80/50/20

EMERGENCY LIGHT FIXTURE PERFORMANCE MODEL: LITHONIA ELM2L					
MOUNTING HEIGHT	ILLUMINATION LEVEL	SINGLE LUMINAIRE COVERAGE		MULTIPLE LUMINAIRE SPACING	
		3' PATH OF EGRESS	6' PATH OF EGRESS	3' PATH OF EGRESS	6' PATH OF EGRESS
7'-6"	1FC AVG	32'	24'	35'	28'
10'	1FC AVG	20'	14'	27'	23'

ELECTRICAL NOTES:

ALL WORK SHALL BE IN ACCORDANCE WITH 2020 NEC.

WIRE AND CABLE SHALL BE INSULATED. TYPE THHN. 600 VOLTS. WITH COPPER CONDUCTORS. CONDUCTOR SIZES NO. 8 AWG AND LARGER MAY BE STRANDED. CONDUCTOR SIZES NO. 10 AWG AND SMALLER MAY BE SOLID OR STRANDED.

ROMEX CAN NOT BE USED IN THIS PROJECT. MC CAN BE USED.

EMT SHALL BE GALVANIZED STEEL TUBING 1/2-INCH MINIMUM SIZE. EQUAL TO ELECTRUNITE BRAND OR APPROVED AND USED ONLY WITH HEXAGONAL ALL STEEL COMPRESSION FITTINGS. MC CABLE MAY BE SUBSTITUTED FOR CONDUIT RACEWAYS WHERE PERMITTED BY THE CODE. AND APPROVED BY OWNER

PLASTIC CONDUIT SHALL BE RIGID. 3/4-INCH MINIMUM. NONMETALLIC. HEAVY DUTY. POLYVINYLCHORIDE (PVC). TYPE I WILL BE USED FOR CONCRETE ENCASEMENT. FITTINGS SHALL BE THE SAME MATERIALS AND MANUFACTURER AS THE PLASTIC CONDUIT.

FLEXIBLE METAL CONDUIT SHALL BE 1/2-INCH MINIMUM SINGLE STRIP. STEEL. HOT DIPPED GALVANIZED INSIDE AND OUTSIDE. MAXIMUM LENGTH OF 72 INCHES FOR LIGHTING. AND 36 INCHES FOR MOTORS. FLEXIBLE METAL CONDUIT SHALL BE LIQUID TIGHT OR WATER TIGHT WITH PVC JACKET WHERE USED IN DAMP. WET. OR OUTSIDE AREAS. AND LIQUID TIGHT OR WATER TIGHT CONNECTORS SHALL BE USED.

NO RECEPTACLES OR TELEPHONE OUTLETS ARE TO BE MOUNTED BACK TO BACK. KEEP AT LEAST 1 1/2 INCHES BETWEEN RECEPTACLES AND TELEPHONE OUTLETS.

ALL CONDUCTORS SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM. THESE CONDUCTORS SHOULD COMPLY WITH NFPA REQUIREMENTS.

THE ELECTRICAL CONTRACTOR SHALL ALIGN ALL FIXTURES. SMOKE DETECTORS. CEILING DIFFUSERS. ETC. AS REQUIRED TO PROVIDE A UNIFORM PRESENTATION. FOLLOW THE REFLECTED CEILING PLAN IF PROVIDED

CIRCUIT BREAKERS AND WIRE ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WIRE. BREAKERS. FIXTURES. CONDUIT. AND ETC. FOR THIS PROJECT: THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND VERIFY THE ELECTRICAL DATA FOR THE EQUIPMENT THAT WILL BE ACTUALLY INSTALLED. RECOMPUTE WIRE AND BREAKER SIZES IF REQUIRED BY THE NEC.

THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION FOR USE WITH ACTUAL EQUIPMENT.

ALL LIGHT SWITCHES. RECEPTACLES. WALL PLATES. TELEPHONE/COMPUTER OUTLET BOXES. AND. CABLE OUTLET BOXES SHALL BE WHITE.

EACH CONTRACTOR WILL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED IN HIS CONTRACT AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE ELECTRICAL CONTRACTORS EXPENSE.

THE ELECTRICAL CONTRACTOR SHALL REFER TO THE DRAWINGS FOR FLOOR PLAN AND BUILDING ELEVATION DIMENSIONS.

THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO INSTALLATION OF HIS EQUIPMENT. SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE. THINK OF OTHER CONTRACTORS AND THEIR REQUIREMENTS IN VERTICAL CHASES AND WALL MOUNT SPACE. ALL CONTRACTORS TO FOLLOW THIS ORDER OF PRIORITY:

1. STORM AND SANITARY SEWER LINES
2. DUCTWORK AND HVAC SYSTEMS
3. HOT AND COLD WATER LINES
4. RIGID CONDUIT
5. CABLE

THE ELECTRICAL CONTRACTOR TO ORGANIZE HIS CONDUIT. WIRE. AND CABLE RUNS IN ATTIC SPACES AND ABOVE CEILINGS. MAKE RUNS PARALLEL. PERPENDICULAR. AND GROUPED TOGETHER WHERE POSSIBLE. LOCATE MAJOR GROUPINGS OVER HALLWAYS AND AREAS OF PUBLIC ACCESS. FREE RUNS OF PHONE. TELEVISION. SECURITY. ALARM. AND OTHER CABLES IS NOT ACCEPTABLE.

ALL DISCONNECT SWITCHES AND BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT. KITCHEN EQUIPMENT. AND ETC. SHALL BE VERIFIED BEFORE PURCHASE AND INSTALLATION OF SAID EQUIPMENT WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR.

WHERE EQUIPMENT PENETRATES EXTERIOR WALLS OR ROOF. THEY SHALL BE PROPERLY SEALED.

EXHAUST FANS ARE TO BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. AND ELECTRICAL WIRING BY THE ELECTRICAL CONTRACTOR.

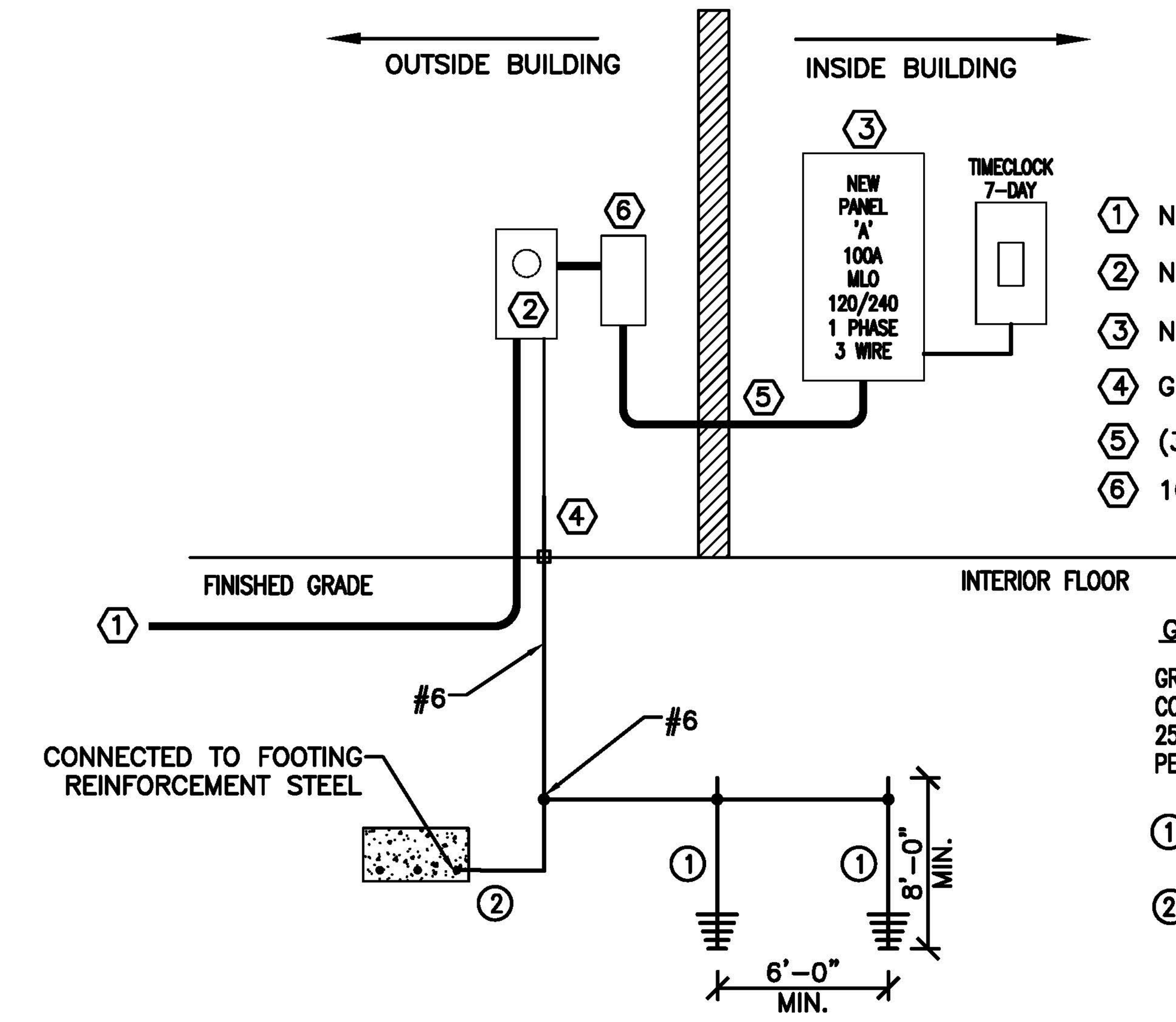
THE ELECTRICAL CONTRACTOR SHALL PROVIDE NAMEPLATES FOR IDENTIFICATION OF ALL EQUIPMENT. SWITCHES. PANELS. ETC. THE NAMEPLATES SHALL BE LAMINATED PHENOLIC PLASTIC. BLACK FRONT AND BACK WITH WHITE CORE. WHITE ENGRAVED LETTERS (1/4 INCH MINIMUM) ETCHED INTO THE WHITE CORE. NAME TAGS TO BE MOUNTED WITH SELF-TAPPING SHEET METAL SCREWS.

THE ELECTRICAL CONTRACTOR IS NOT TO SCALE THE DRAWINGS FOR RECEPTACLES AND LIGHT FIXTURES TO BE INSTALLED. THE DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY TO SHOW GENERAL LOCATION. THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION OF RECEPTACLES AND LIGHT FIXTURES WITH THE GENERAL CONTRACTOR AND/OR CASEWORK DRAWINGS.

ALL LIGHT SWITCHES AND RECEPTACLES SHALL BE RATED FOR 20 AMP UNLESS NOTED OTHERWISE.

LIGHT FIXTURE SCHEDULE

TAG	DESCRIPTION	SIZE	MOUNTING	LENS	COLOR	LUMENS	BULB	BALLAST TYPE	HOUSING	VOLTAGE	WATTAGE	MANU/MODEL NUMBER	REMARKS
A	LED HIGH BAY LIGHT	16"ø	HANGING	N/A	5000 K	30,000	LED	LED DRIVER	STEEL	120	215	LITHONIA NO. JEBL 30L 50K 80CRI OR EQUAL	COLOR TEMP. SELECT BY OTHERS
B	EXTERIOR WALL PACK	17" X 9"	HANGING	N/A	5000 K	16,000	LED	LED DRIVER	STEEL	120	112	LITHONIA NO. TWR2 LED ALO SWW2 UVOLT PE DDBTXD	COLOR TEMP. SELECT BY OTHERS
EM	EMERGENCY	N/A	WALL	N/A	N/A	N/A	(2) LAMPS	ELECTRONIC	POLYCARBONATE	120/240		LITHONIA ELM2L OR EQUAL LITHONIA EU2L OR EQUAL (FOR RESTROOMS/UTILITY ROOMS)	6 VOLT NICAD BATTERY TEST SWITCH, POWER INDICATOR
EX	EXIT SIGN	N/A	WALL	SINGLE	N/A	N/A	LED LIGHT	LED DRIVER	POLYCARBONATE	120/240		LITHONIA LHQM S W 3 R 120/240 EL N OR EQUAL	6 VOLT NICAD BATTERY, (2) REMOTE HEADS



1. NEW SERVICE ENTRANCE.
2. NEW 200A METER BASE
3. NEW 100A MLO ELECTRICAL PANEL
4. GROUNDING SYSTEM
5. (3)#3 & (1)#8 GND IN 1-1/2" CONDUIT
6. 100A DISCONNECT (NEMA 3R)

GROUNDING ELECTRODE DETAILS

GROUNDING ELECTRODE CONDUCTORS SHALL BE #6 BARE COPPER. OTHER MATERIAL AND INSTALLATION PER NEC 250.50, 250.52 AND 250.53. CONDUCTORS SHALL BE SIZED PER 250.66 AND TABLE 250.66.

1. (2) 3/4"x8' LONG COPPER CLAD GROUNDING ROD W/ #6 COPPER GROUND.
2. #6 COPPER GROUND CONNECTED BUILDING FOOTING REINFORCEMENT STEEL

POWER RISER DIAGRAM

NOT TO SCALE

PANEL "A"

PHASE: 1 | WIRE: 3 | VOLTS: 240/120 | MAIN LOAD: 100A MLO

TYPE: NEMA 1 | MOUNTING: SURFACE | ENCLOSURE:

SHORT CIRCUIT RATING: 22 kA RMS SYM.

X GROUND TERMINAL BAR | X NEUTRAL TERMINAL BAR

PHASE LOADING A	PHASE LOADING B	DESCRIPTION	CKT. TYPE	WIRE SIZE	CKT. BKR. TRIP	CKT. NO.	A	B	CKT. NO.	CKT. BKR. TRIP	WIRE SIZE	CKT. TYPE	DESCRIPTION	PHASE LOADING A	PHASE LOADING B
1.72		LIGHT - LEFT BAY	C	#12	20/1	1			2	20/1	#12	C	LIGHT - RIGHT BAY	1.72	
	1.72	LIGHT- CENTER BAY	C	#12	20/1	3			4	20/1	#12	C	LIGHT EXTERIOR + TIMECLOCK		0.55
0.55		RECEPT - LEFT WALL	R	#12	20/1	5			6	20/1	#12	R	RECEPT - RIGHT WALL	0.55	
	0.55	RECEPT - REAR WALL	R	#12	20/1	7			8						
						9			10						
						11			12						
						13			14						
						15			16						
						17			18						
						19			20						
						21			22						
						23			24						
						25			26						
						26			28						
						29			30						
2.27	2.27	-------------------- SUB-TOTAL (KVA)											SUB-TOTAL (KVA) --------------------	2.25	0.55

H-HVAC LOAD | C-CONTINUOUS LOAD
K-KITCHEN LOAD | N-NON CONTINUOUS LOAD
E-ESTIMATED LOAD | R-RECEPTACLE LOAD

TOTAL CONNECTED LOAD = 7.34 KVA

TOTAL AMPS= 30.58 A

TOTAL OF: 30 SPACES

TOTAL CONNECTED LOAD SUMMARY

ITEM	CONNECTED LOAD (KVA)			ESTIMATED LOAD (KVA)
HVAC	0	@ 100%	=	0
LIGHTING	5.71	@ 125%	=	7.13
RECEPTACLES	1.65	(T-10.00*.60+10.00)	=	1.65
MISC. EQUIPMENT	0	@ 60%	=	0
TOTAL CONNECTED	7.34 KVA	30.58 AMPS		
ESTIMATED DEMAND	8.78 KVA	36.58 AMPS		

APPENDIX B ELECTRICAL DESIGN

2018 BUILDING CODE SUMMARY

PROJECT NAME: HARNETT COUNTY AIRPORT HANGAR #2

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT
METHOD OF COMPLIANCE:
ENERGY CODE: X PRESCRIPTIVE PERFORMANCE
ASHRAE 90.1: PRESCRIPTIVE PERFORMANCE

LIGHTING SCHEDULE (EACH FIXTURE TYPE)
LAMP TYPE REQUIRED IN FIXTURE LED
NUMBER OF LAMPS IN FIXTURE (SEE FIXTURE SCHEDULE)
BALLAST TYPE USED IN THE FIXTURE ELECTRONIC
NUMBER OF BALLASTS IN FIXTURE 1
TOTAL WATTAGE PER FIXTURE VARIES PER FIXTURE
TOTAL INTERIOR WATTAGE SPECIFIED VERSUS ALLOWED 7,200 ALLOWED - 5,710 SPECIFIED
TOTAL EXTERIOR WATTAGE SPECIFIED VERSUS ALLOWED N/A

SECTION C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS

C406.1 BUILDINGS SHALL HAVE AT LEAST ONE OF THE FOLLOWING PRESCRIPTIVE COMPLIANCE (REQUIRED FOR NEW BUILDINGS, OPTIONAL FOR EXISTING BUILDINGS)

1. MORE EFFICIENT MECHANICAL EQUIPMENT PER C406.2
2. REDUCED LIGHTING POWER DENSITY PER C406.3
3. ENHANCED LIGHTING CONTROL SYSTEMS PER C406.4
4. ON-SITE SUPPLY OF RENEWABLE ENERGY PER C406.5
5. DEDICATED OUTDOOR AIR SYSTEM PER C406.6
6. HIGHER EFFICIENCY SERVICE WATER HEATING PER C406.7

DESIGNER STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE 2018 NC ENERGY CONSERVATION CODE.

SIGNED: Buddy Jenkins
NAME: BUDDY JENKINS
TITLE: PROFESSIONAL ENGINEER

JENKINS CONSULTING ENGINEERS, PA
OFFICE in EUREKA SPRINGS, NORTH CAROLINA
CORPORATION NUMBER C-3070 kellyd@jenkinsce.pro
1606 McARTHUR RD. FAYETTEVILLE, NC 28311-1002
910.822.1724

NORTH CAROLINA PROFESSIONAL SEAL 28803 ENGINEER DOUGLAS BUDD JENKINS
05 AUGUST 2025

DESIGNED / CHECKED BY: BJ
DRAWN BY: BT
PROJECT #: 2025-07-21
DATE: 05 AUGUST 2025

FINAL DRAWING [] FOR REVIEW PURPOSES ONLY
PRELIMINARY [] FOR DESIGN DEVELOPMENT ONLY
FINAL DRAWING [✓] FOR CONSTRUCTION

OWNER/TENANT: -
CONTRACTOR/BUILDER: -

PROJECT: HARNETT COUNTY AIRPORT HANGAR #2
497 AIRPORT RD. ERWIN, NC 28339

SHEET: ELECTRICAL - RISER & NOTES

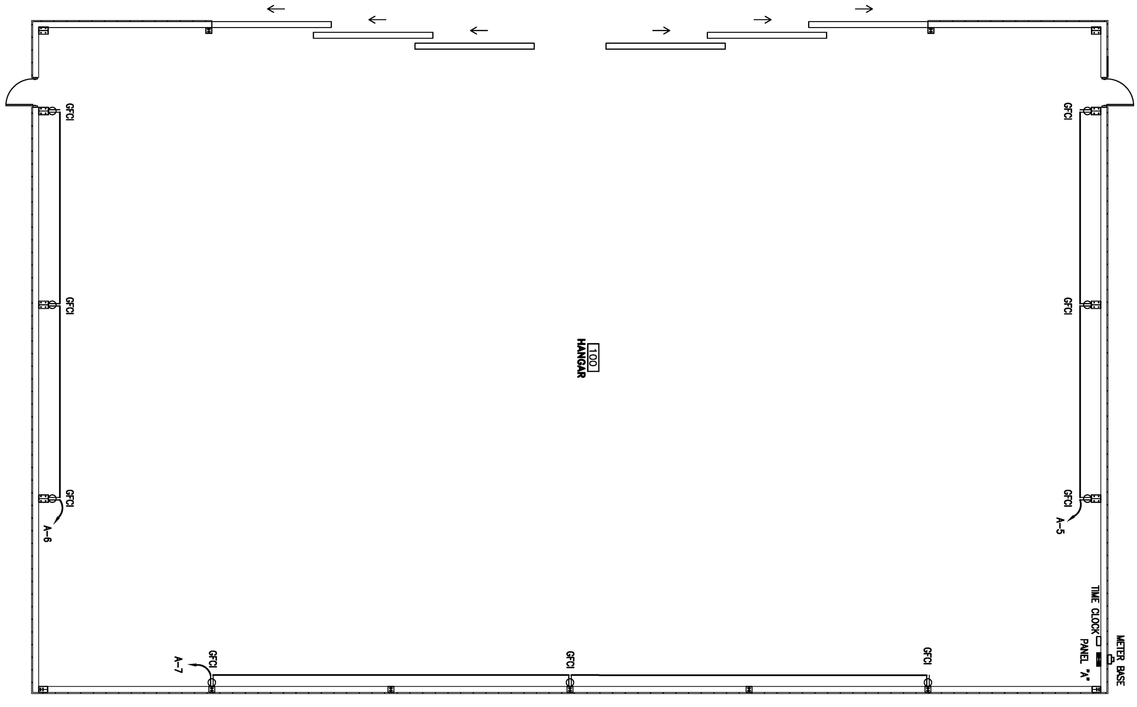
E1

Drawing File: H:\2025\Harnett County Airport #2 PID 2025-07-21\DWG\Harnett-Airport#2-29 July 2025.dwg
Plotted by: bsok
Plotted Date: Aug 05, 2025 - 3:34pm

SCALE: 1/8" = 1'-0" | SCALE: 3/16" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 1-1/2" = 1'-0"

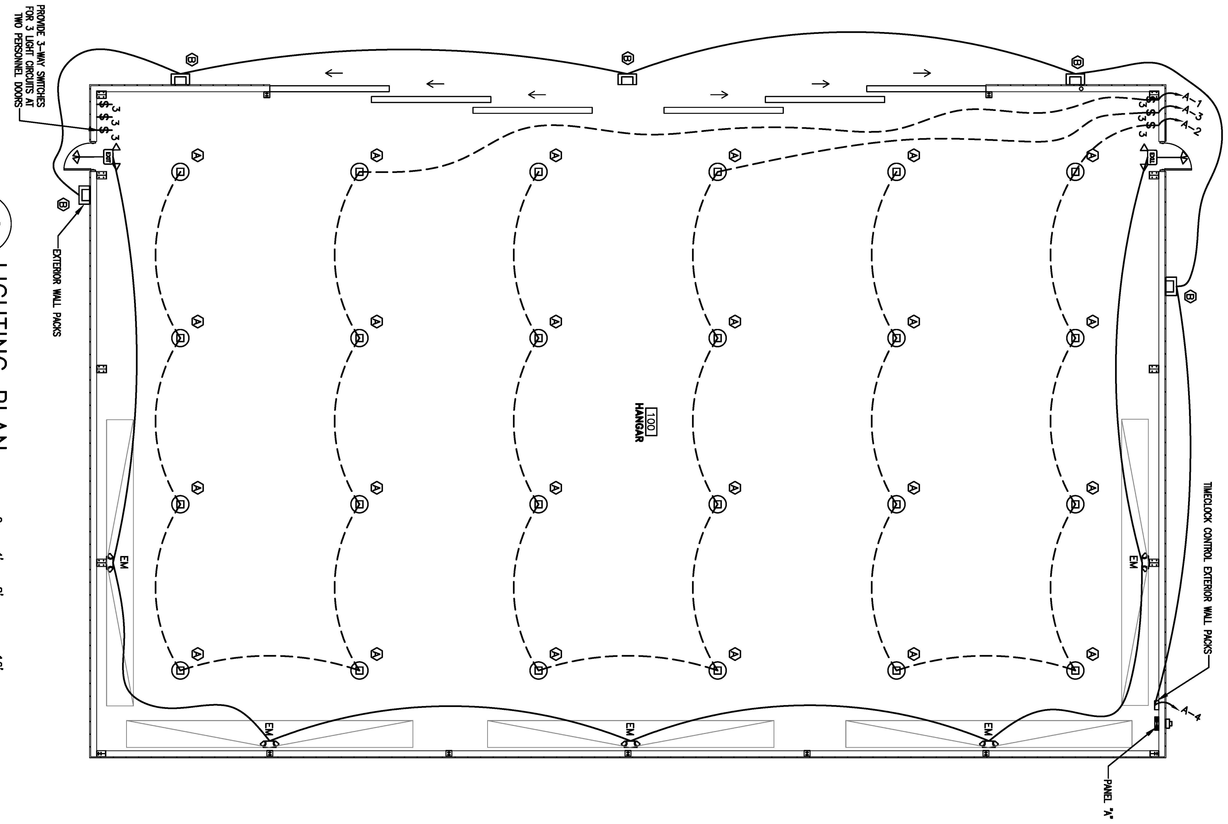
1 E2 POWER PLAN

SCALE: 1/8" = 1'-0"



2 E2 LIGHTING PLAN

SCALE: 1/8" = 1'-0"



E2

PROJECT:
HARNETT COUNTY AIRPORT HANGAR #2
497 AIRPORT RD. ERWIN, NC 28339

SHEET:
ELECTRICAL - POWER & LIGHTING PLAN

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PROJECT #: 2025-07-21
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05 AUGUST 2025

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PLUMBING GENERAL NOTES:

PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA PLUMBING CODE 2018 EDITION AND LOCAL CODES.

ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE GENERAL CONTRACTOR AND OWNER TO SUIT THE OWNER'S OPERATING CONDITIONS.

PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE GENERAL CONTRACTOR OF ANY DEVIANCIES FROM THE CONTRACT DRAWINGS PRIOR TO STARTING ANY WORK.

THE PLUMBING CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE. THINK OF OTHER CONTRACTORS AND THEIR REQUIREMENTS IN VERTICAL CHASES AND WALL MOUNT SPACE. ALL CONTRACTORS TO FOLLOW THIS ORDER OF PRIORITY:

1. STORM AND SANITARY SEWER LINES
2. DUCTWORK AND HVAC SYSTEMS
3. HOT AND COLD WATER LINES
4. RIGID CONDUIT
5. CABLE

THE PLUMBING CONTRACTOR TO ORGANIZE HIS PIPING IN ATTIC SPACES, CRAWL SPACES, AND ABOVE CEILINGS. MAKE RUNS PARALLEL, PERPENDICULAR, AND GROUPED TOGETHER WHERE POSSIBLE. LOCATE MAJOR GROUPINGS OVER HALLWAYS AND AREAS OF PUBLIC ACCESS IF POSSIBLE. FREE RUNS OF PIPING IS NOT ACCEPTABLE.

THE PLUMBING CONTRACTOR SHALL LAY OUT AND INSTALL HIS WORK IN ADVANCE OF POURING CONCRETE FLOORS OR WALLS. HE SHALL FURNISH ALL SLEEVES TO THE GENERAL CONTRACTOR FOR OPENINGS THROUGH POURED MASONRY FLOORS, OR WALLS, ABOVE GRADE REQUIRED FOR PASSAGE OF ALL PIPES TO SUPPORT HIS EQUIPMENT.

HORIZONTAL DRAINAGE AND WASTE PIPE SHALL HAVE A MINIMUM SLOPE OR FALL OF 1/8 INCH PER FOOT. ALL CHANGE OF HORIZONTAL DIRECTIONS IN SOIL WASTE PIPE SHALL BE MADE WITH LONG RADIUS FITTINGS WITH "Y" BRANCHES AND 1/8 OR 1/16 BENDS.

COLD AND HOT WATER PIPING ABOVE GRADE SHALL CAN BE CAN BE PEX PIPING (WITH OWNERS APPROVAL).

ALL HOT WATER PIPING SHALL BE INSULATED WITH 1 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE.

ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE.

SANITARY HORIZONTAL WASTE, VENT PIPING, AND FITTINGS ABOVE GRADE SHALL BE SCHEDULE 40 PVC-DWV PIPE-CELLULAR CORE FROM CHARLOTTE PIPE AND FOUNDRY COMPANY OR APPROVED EQUAL, AND MUST MEET OR EXCEED THE REQUIREMENTS OF ASTM F-891, NSF STANDARD NO. 14, AND IAPMO UPC.

ALL WASTE STACK PIPING SHALL BE CAST IRON AND INSULATED FOR SOUND IN WALLS.

ALL WASTE AND STORM PIPING ABOVE CEILING, VERTICAL CHASES, WALLS SHALL BE INSULATED WITH 1/2 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE. NO INSULATION REQUIRED IN CRAWL SPACE OR BELOW FLOOR SLAB OF ANY WASTE AND STORM PIPING.

IN LIEU OF FIBERGLASS INSULATION, THE PLUMBING CONTRACTOR IS ALLOWED TO USE CLOSED CELL INSULATION, 1/2 INCH THICK ARMSTRONG/ARMAFLEX II ON ALL COLD WATER PIPES. RIGID URETHANE FOAM INSULATION, 1 INCH THICK ARMSTRONG/ARMALOK II ON ALL HOT WATER PIPING.

ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

ALL FIXTURES, DRAINS, TRAPS, ETC. SHALL BE SET PLUMB AND LEVEL.

ALL HANDICAPPED FIXTURES AND TRIM SHALL BE INSTALLED IN ACCORDANCE WITH THE NORTH CAROLINA PLUMBING CODE 2018 EDITION.

CHROME PLATED ESCUTCHEONS SHALL BE PROVIDED AT EACH WALL PENETRATION.

ESCUTCHEONS SHALL BE CHROME PLATED, SPRING TYPE, ON ALL PIPES PASSING THROUGH WALLS AND CEILINGS IN FINISHED AREAS. FLOOR ESCUTCHEONS SHALL BE CAST BRASS, CHROME PLATED, WITH SET SCREW.

ESCUTCHEONS SHALL BE OF SUFFICIENT SIZE TO COVER OUTSIDE DIAMETER OF THE PIPE OR THE INSULATION OF THE PIPE.

FLASHING FOR VENTS THROUGH THE ROOF SHALL BE TWO-PIECE TYPE, 16 OUNCE COPPER COUNTER FLASHING AND BASE FLASHING, OR A TWO-PIECE TYPE, 4 POUND LEAD COUNTER FLASHING AND BASE FLASHING. THE BASE FLASHING SHALL BE INSTALLED BY THE GENERAL CONTRACTOR WITH THE ROOF SYSTEM.

VENT FLASHING SHALL EXTEND DOWN AT LEAST 4 INCHES FROM THE TOP OF THE PIPE. FLASHING SHALL EXTEND AT LEAST 12 INCHES IN ALL DIRECTIONS FROM THE PIPE AND SHALL BE PARALLEL TO THE ROOF LINE.

ALL EQUIPMENT AND INSTALLED MATERIALS SHALL BE THOROUGHLY CLEAN AND FREE OF ALL DIRT, OIL, GRIT, GREASE, AND ETC.

ALL PLUMBING SYSTEMS AND EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING FROM THE OWNER.

PLUMBING FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	MODEL #	FIXTURE DESCRIPTION	FIXTURE MOUNTING	ACCESSORIES	SUPPLY	WASTE	VENT	REMARKS
P1	ZURN	Z1321-CXL-14	NON-FREEZE, ANTI SIPHON AUTO-DRAINING EXPOSED ECOLOTROL WALL HYDRANT	WALL MOUNTED	–	3/4" C.W.	–	–	SELECTED MODEL OR EQUAL

WATER CALCULATIONS

QTY.	ITEM	C.W. FIXTURE UNITS	WATER SUPPLY FIXTURE UNITS EACH	WATER SUPPLY FIXTURE UNITS TOTAL
1	WALL HYDRANT	2.25	3.0	3.0
	TOTAL WATER SUPPLY FIXTURE UNITS			3.0

PLUMBING SYMBOL LEGEND

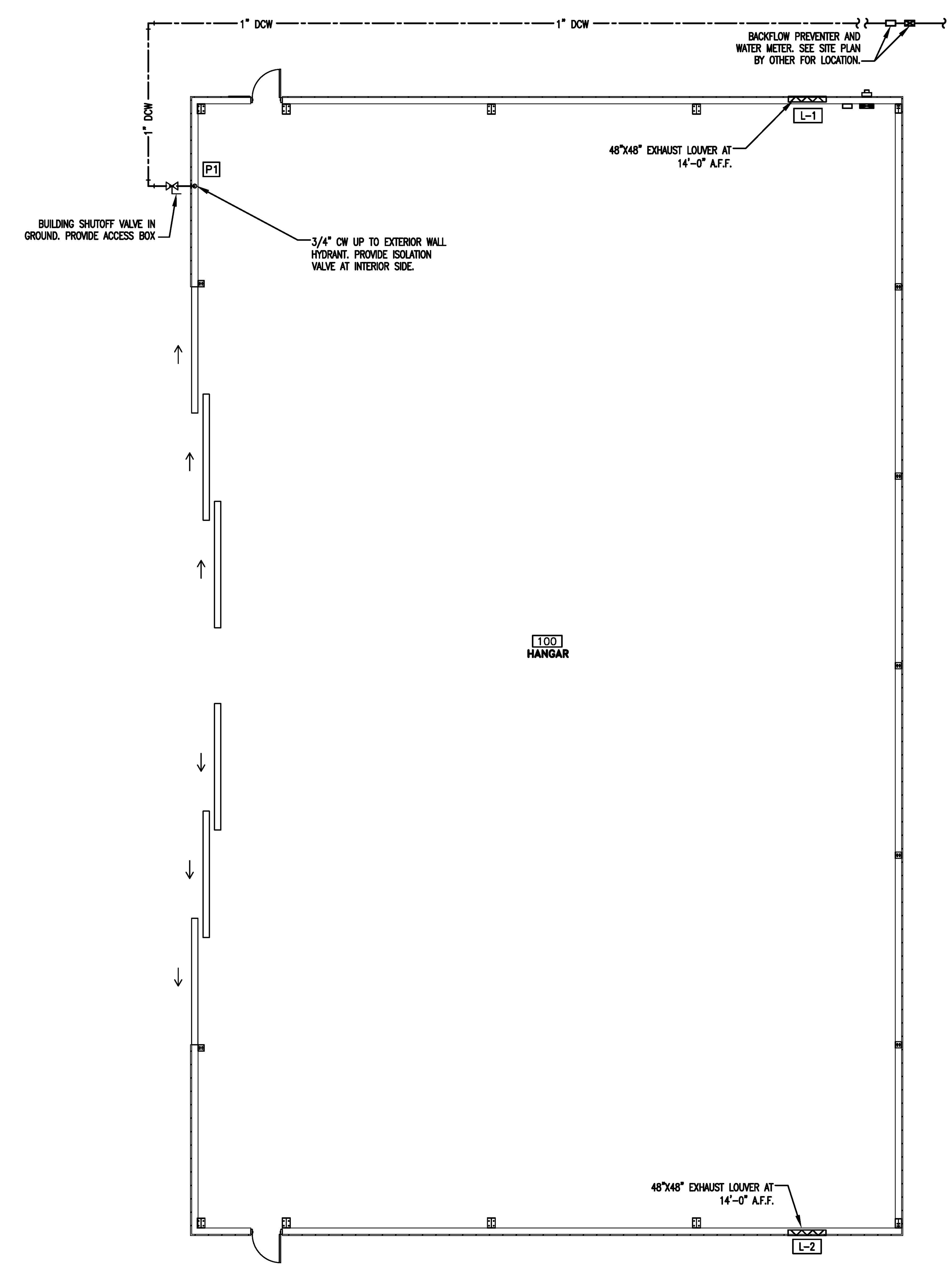
(line)	COLD WATER LINE
(symbol)	PIPE TURNS UP
(symbol)	SHUT OFF VALVE

LOUVER SCHEDULE

TAG	TYPE	LOCATION	DESIGN CFM	MIN FREE AREA (SQ.FT.)	FREE AREA %	LOUVER DIMS	DAMPER	SCREEN	MFG & MODEL
L-1	EXHAUST	WALL	3400	8.49	53	48"x48"x7"	BACKDRAFT	YES	RUSKIN / HZ700- HORIZ-WIND-DRIVEN
L-2	EXHAUST	WALL	3400	8.49	53	48"x48"x7"	BACKDRAFT	YES	RUSKIN / HZ700- HORIZ-WIND-DRIVEN

VENTILATION CALCULATION:

ENCLOSED PARKING GARAGE: 0.75 CFM / SQ.FT.
0.75 x 9000 = 6750 CFM OF EXHAUST AIR.
PROVIDED 6800 CFM OF EXHAUST AIR.



1/MP MECHANICAL & WATER PLAN

SCALE: 1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 28803 DOUGLAS "BUDDY" JENKINS
05 AUGUST 2025

DESIGNED / CHECKED BY: BJ
DRAWN BY: BT
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497 AIRPORT RD. ERWIN, NC 28339

SHEET: MECHANICAL & PLUMBING (WATER) PLAN

MP

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