

NEW BUILDING FOR:  
**LEGGETT BUILDING #2**  
29 Draughn Rd, Tarboro, NC 27886

2018 APPENDIX B BUILDING CODE SUMMARY

Name of Project: **New Building: Leggett Building #2**  
Address: **29 Draughn Rd., Tarboro, NC** Zip Code: **27886**  
Owner or Authorized Agent: **DAVID COKER** Phone # **252.903.6467** E-Mail: **david@cokerfirm.com**  
Owned By: ☐ City / County ☒ Private ☐ Other  
Code Enforcement Jurisdiction: ☒ City **Tarboro** ☒ County **Edgecombe** ☒ State **North Carolina**

CONTACT :				
Robert S. Bartlett P.E.				
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #
Building	Bartlett Engineering & Surveying, PC	Robert S. Bartlett	20106	252.399.0704
Civil	Bartlett Engineering & Surveying, PC	Robert S. Bartlett	20106	252.399.0704
Electrical	Bartlett Engineering & Surveying, PC	Robert S. Bartlett	20106	252.399.0704
Fire Alarm				
Plumbing	Bartlett Engineering & Surveying, PC	Robert S. Bartlett	20106	252.399.0704
Mechanical	Bartlett Engineering & Surveying, PC	Robert S. Bartlett	20106	252.399.0704
Sprinkler-Standpipes				
Struct - Metal Bldg By Building Manufacturer				
Struct - Framing				
Structural - Fast By Building Manufacturer				
Other				

**2018 NC BUILDING CODE:** ☒ New Building ☐ Addition ☐ Renovation  
☐ Not Time Sensitive Completion  
☐ Shell/ Core completion only - (Contact the local inspection jurisdiction for possible additional procedures and requirements.)  
☐ Phased Construction - (Contact the local inspection jurisdiction for possible additional procedures and requirements.)

**2018 NC EXISTING BUILDING CODE:**  
Prescriptive Compliance: ☐ Repairs ☐ Alterations ☐ Additions ☐ Change of occupancy ☐ Historic ☐ Shell/ Core completion only  
Work Area Compliance: ☐ Alteration Level I ☐ Alteration Level II ☐ Alteration Level III ☐ Additions ☐ Repairs ☐ Historic ☐ Change of Use  
Performance Compliance: ☐ Repairs ☐ Alterations ☐ Additions ☐ Change of occupancy ☐ Historic

**CONSTRUCTED:** (date) **CURRENT USE(s)** (Ch. 3)  
**RENOVATED:** (date) **PROPOSED USE(s)** (Ch. 3)  
**RISK CATEGORY:** (Table 1604.5) Current: ☐ I ☐ II ☐ III ☐ IV  
Proposed: ☐ I ☐ II ☐ III ☐ IV

**BASIC BUILDING DATA**  
Construction Type: ☐ I-A ☐ I-B ☐ IIA ☐ IIB ☐ IIB-B ☒ V-B  
(check all that apply) ☐ I-A ☐ I-B ☐ IIA ☐ IIB ☐ IIB-B ☒ V-B  
Sprinklers: ☒ NO ☐ Partial ☐ YES Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry  
Standpipes: ☒ NO ☐ YES ☐ Flood Hazard Area: ☐ No ☐ YES  
Fire District: ☒ NO ☐ YES  
Special Inspections Required: ☒ NO ☐ YES (Contact the local inspection jurisdiction for possible additional procedures and requirements.)

GROSS BUILDING AREA :			
FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTAL
6th Floor			
5th Floor			
4th Floor			
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor		1,500	
TOTAL :		1,500	

**ALLOWABLE AREA**  
Primary Occupancy Classification(s): (check all that apply)  
Assembly (303) ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5  
Business (304) ☐  
Educational (305) ☐  
Factory (306) ☐ F-1 Moderate ☐ F-2 Low  
Hazardous (307) ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 IHPM  
Institutional (308) ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4  
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5  
Mercantile (309) ☐  
Residential (310) ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4  
Storage (311) ☒ S-1 Moderate ☐ S-2 Low ☐ High-Piled  
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage  
Utility and Misc. (312) ☐  
Accessory Occupancy Classification(s): **Storage**  
Incidental Uses: (Table 509)  
Special Uses: (Chapter 4 - List Code Sections)  
Special Provisions: (Chapter 5 - List Code Sections)  
Mixed Occupancy: ☒ NO ☐ YES Separation: \_\_\_\_\_ Hour Exception: \_\_\_\_\_  
☒ Non-Separated Mixed Occupancy (508.3) -  
☐ 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 for each use shall not exceed 1.

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE <sup>1</sup>	(D) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>2,3</sup>
1	S-1 OCCUPANCY	1,500	9,000		

<sup>1</sup> Frontage space area increases from Section 506.3 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:  $I = 100 (F/P - 0.25) \times W/20 = \text{_____} (\%)$   
<sup>2</sup> Unlimited area applicable under conditions of Sections (507)  
<sup>3</sup> Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).  
<sup>4</sup> The maximum area of open parking garages must comply with Table 406.4.5.  
<sup>5</sup> Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE <sup>1</sup>
Building Height in Feet (Table 504.3) <sup>2</sup>	40'	<19'	X
Building Height in Stories (Table 504.4) <sup>3</sup>	1	1	X

<sup>1</sup> Provide code reference if the Shown on Plans<sup>2</sup> quantity is not based on Table 504.3 or 504.4.  
<sup>2</sup> The maximum height of air traffic control towers must comply with Table 412.3.1.  
<sup>3</sup> The maximum height of open parking garages must comply with Table 406.4.5.

FIRE RESISTANCE RATINGS					
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQUIRED	PROVIDED (W/ O REDUCTION)	DETAIL # AND SHEET #	SHEET # FOR RATED ASSEMBLY
Structural frame, including columns, girders, trusses	N/A	0 HOUR			
Bearing walls					
Exterior		0 HOUR			
North		0 HOUR			
East		0 HOUR			
West		0 HOUR			
South		0 HOUR			
Interior					
Nonbearing walls and partitions		0 HOUR			
Exterior					
North					
East					
West					
South					
Interior walls and partitions		0 HOUR			
Floor Construction including supporting beams and joists		0 HOUR			
Floor Ceiling assembly					
Columns Supporting Floor					
Roof Construction including supporting beams and joists					
Roof Ceiling assembly					
Columns Supporting Roof					
Shafts Enclosures - Exit					
Shafts Enclosures - Other					
Corridor Separation					
Occupancy Fire Barrier Separation					
Party Fire Wall Separation					
Smoke Barrier Separation					
Smoke Partition					
Human Dwelling Unit/Sleeping Unit Separation		1 HOUR			
Incidental Use Separation					

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'	Unprotected, Non-sprinklered	No Limit	

**LIFE SAFETY SYSTEM REQUIREMENTS**  
Emergency Lighting: ☐ No ☒ Yes  
Exit Signs: ☐ No ☒ Yes  
Fire Alarm: ☒ No ☐ Yes  
Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial, HVAC UNITS ≥ 0 TONS  
Carbon Monoxide Detection: ☒ No ☐ Yes

**LIFE SAFETY PLAN REQUIREMENTS**  
Life Safety Plan Sheet #: **LS-1**  
☐ Fire and/or smoke rated wall locations (Chapter 7)  
☐ Assembled and real property line locations (if not on the site plan)  
☐ Exterior wall opening area with respect to distance to unarmored property lines (705.8)  
☒ Existing structures within 30' of the proposed building  
☒ 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 (502)  
☐ The square footage of each smoke compartment for Occupancy Classification 1-2 (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 PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
N/A	N/A	N/A	N/A	N/A	N/A	N/A

ACCESSIBLE PARKING (SECTION 1106)					
LOT OR PARKING AREA DESIGNATION	TOTAL # PARKING SPACES		# ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE SPACES PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	8' ACCESS AISLE	
TOTAL					

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)									
USE		WATER CLOSETS		URINALS		LAVATORIES		SERVICE SINK	
		MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	REGULAR	ACCESSIBLE
TOTAL PEOPLE	EXISTING	0	0	0	0	0	0	1	0
12	NEW	0	0	0	0	0	0	0	0
5	REQUIRED	0	0	0	0	0	0	0	0

NOTE: Per 2018 NC Building Code Sec. 2902.3.2 TRAVEL DISTANCE TO TOILET FACILITIES SHALL NOT EXCEED 500 FT.

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OGC, DPI, DHHS, ICC, 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 ☒ YES  
Exempt Building: ☒ NO ☐ YES  
Climate Zone: ☒ 3A ☐ 4A ☐ 5A

Method of Compliance: Energy Code ☒ Prescriptive ☐ Performance  
ASHRAE 90.1 ☐ Prescriptive ☐ Performance

**THERMAL ENVELOPE:** (Prescriptive method only)  
Roof/Ceiling Assembly (each assembly)

Description of Assembly \_\_\_\_\_  
U-value of Total Assembly \_\_\_\_\_  
R-value of Insulation \_\_\_\_\_  
Skylights in each assembly \_\_\_\_\_  
U-Value of skylight \_\_\_\_\_  
Total square footage of skylights in each assembly \_\_\_\_\_  
Exterior Walls (each assembly)

Description of Assembly \_\_\_\_\_  
U-value of Total Assembly \_\_\_\_\_  
R-value of Insulation \_\_\_\_\_  
Openings (windows or doors with glazing) \_\_\_\_\_  
U-Value of assembly \_\_\_\_\_  
Solar heat gain coefficient: \_\_\_\_\_  
Door R-Values: \_\_\_\_\_  
Walls below grade (each assembly)

Description of Assembly \_\_\_\_\_  
U-value of Total Assembly \_\_\_\_\_  
R-value of Insulation \_\_\_\_\_  
Floors over unconditioned space (each assembly)  
Description of Assembly \_\_\_\_\_  
U-value of Total Assembly \_\_\_\_\_  
R-value of Insulation \_\_\_\_\_  
Floors slab on grade  
Description of Assembly \_\_\_\_\_  
U-value of Total Assembly \_\_\_\_\_  
R-value of Insulation \_\_\_\_\_  
Horizontal/vertical requirement  
Slab heated

STRUCTURAL DESIGN

**DESIGN LOADS:**  
Importance Factors: Wind ( $I_s$ ) 1.0  
Snow ( $I_s$ ) 1.0  
Seismic ( $I_s$ ) 1.0  
Live Loads: Roof (live & snow) 20 PSF & 15 PSF  
Collateral 5 PSF  
Mezzanine  
Floor n/a  
Ground Snow Load: 120 MPH (ASCE-7)  
Wind Loads: Ultimate Wind Speed Exposure Category C

SEISMIC CATEGORY

Provide the following Seismic Design Parameters:  
Risk Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV  
Spectral Response Acceleration  $S_s$  12.2 %g  $S_u$  6.2 %g  
Site Classification (ASCE-7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F  
Data source: ☐ Field Test ☐ Presumptive ☒ Historical Data

Basic Structural System: (check one)  
☐ Bearing Wall ☐ Dual W/ Special Moment Frame  
☐ Building Frame ☐ Dual W/ Intermediate R/C or Special Steel  
☒ Moment Frame ☐ Inverted Pendulum  
Analysis Procedure: ☐ Simplified ☒ Equivalent Lateral Force ☐ Dynamic  
Architectural, Mechanical, Components Anchored? ☒ Yes ☐ No

**LATERAL DESIGN CONTROL:** ☐ Earthquake ☒ Wind  
**SOIL BEARING CAPACITIES:**  
Field Test (provide copy of test report) \_\_\_\_\_  
Presumptive Bearing Capacity \_\_\_\_\_  
Pile Size, Type, and Capacity \_\_\_\_\_

MECHANICAL SUMMARY

SEE MECHANICAL SHEET  
**MECHANICAL SYSTEMS SERVICE SYSTEMS AND EQUIPMENT:**

**Thermal Zone**  
Winter dry bulb \_\_\_\_\_  
Summer dry bulb \_\_\_\_\_  
**Interior Design Conditions**  
Winter dry bulb \_\_\_\_\_  
Summer dry bulb \_\_\_\_\_  
Relative humidity \_\_\_\_\_  
**Building Heating Load**  
**Building Cooling Load**  
**Mechanical Spacing Conditioning System**  
Unitary  
Description of unit \_\_\_\_\_  
Heating efficiency \_\_\_\_\_  
Cooling efficiency \_\_\_\_\_  
Size category of unit \_\_\_\_\_  
Boiler Size category. If oversized, state reason \_\_\_\_\_  
Chiller Size category. If oversized, state reason \_\_\_\_\_  
**List Equipment Efficiencies**  
**Equipment Schedules with Motors (mechanical systems)**  
Motor horsepower \_\_\_\_\_ 1/2 HP  
Number of phases \_\_\_\_\_ SINGLE  
Minimum efficiency \_\_\_\_\_  
Motor type \_\_\_\_\_ TOTALLY ENCLOSED  
# of poles \_\_\_\_\_ 2

ELECTRICAL SUMMARY

SEE ELECTRICAL SHEET  
**ELECTRICAL SYSTEM AND EQUIPMENT:**

Method of Compliance: Energy Code ☐ Prescriptive ☐ Performance  
ASHRAE 90.1 ☐ Prescriptive ☐ Performance  
**Lighting Schedule** (each fixture type)  
Lamp type required in fixture \_\_\_\_\_ 400W-MV-VHB  
Number of lamps in fixture \_\_\_\_\_ 1  
Ballast type used in fixture \_\_\_\_\_ magnetic  
Number of ballasts in fixture \_\_\_\_\_ 1  
Total wattage per fixture \_\_\_\_\_ 400W  
Total interior wattage specified -vs- allowed \_\_\_\_\_ 3200 / 4000  
Total exterior wattage specified -vs- allowed \_\_\_\_\_ <1200 / 1860  
**Additional Prescriptive Compliance**  
☐ 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

SHEET INDEX

COVER

CS-1 CODE SUMMARY / INDEX SHEET

LS-1 LIFE SAFETY PLAN

BUILDING

B-1 FLOOR PLAN

B-2 EXTERIOR ELEVATIONS

PLUMBING

P-1 PLUMBING-SUPPLY PIPING PLAN

P-2 PLUMBING WASTE & VENT PIPING PLAN

MECHANICAL

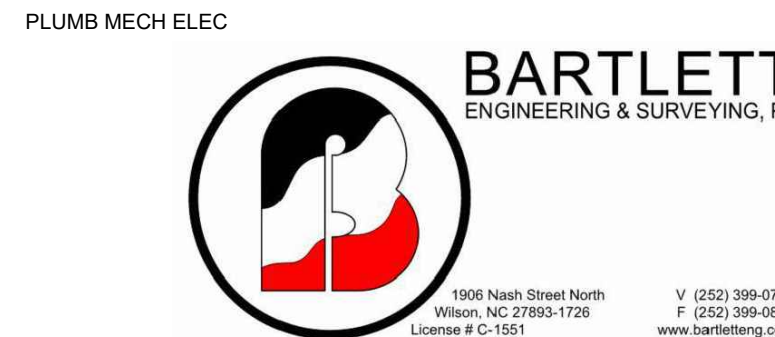
M-1 MECHANICAL PLAN

ELECTRICAL

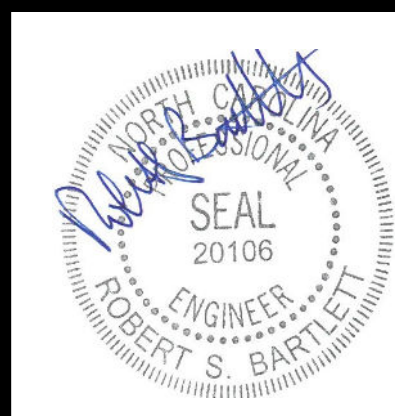
E-1 ELECTRICAL- LIGHTING PLAN

E-2 ELECTRICAL- POWER PLAN

E-3 ELECTRICAL PANEL SCHEDULE & RISER



David Coker  
**Leggett Volunteer Fire Dept.**  
29 Draughn Road  
Tarboro, NC 27886



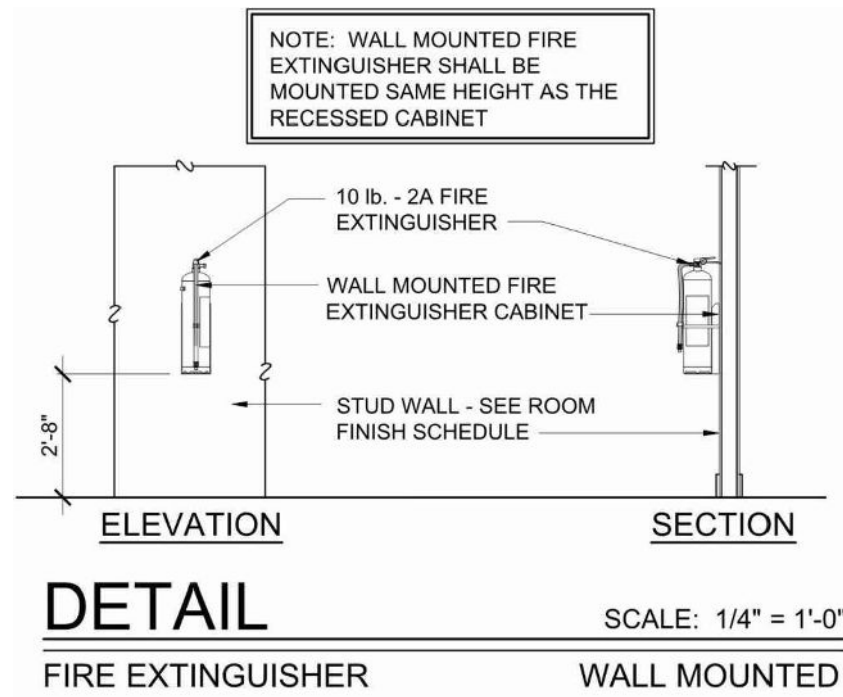
Rev: \_\_\_\_\_ Date: \_\_\_\_\_ Description: \_\_\_\_\_

Title Sheet  
**CODE SUMMARY / INDEX SHEET**  
Building Two  
29 Draughn Rd, Tarboro, NC 27886

Drawn by: CGL  
Issue Date: 02/10/2025  
Project Number: 24-034  
Sheet: CS-1

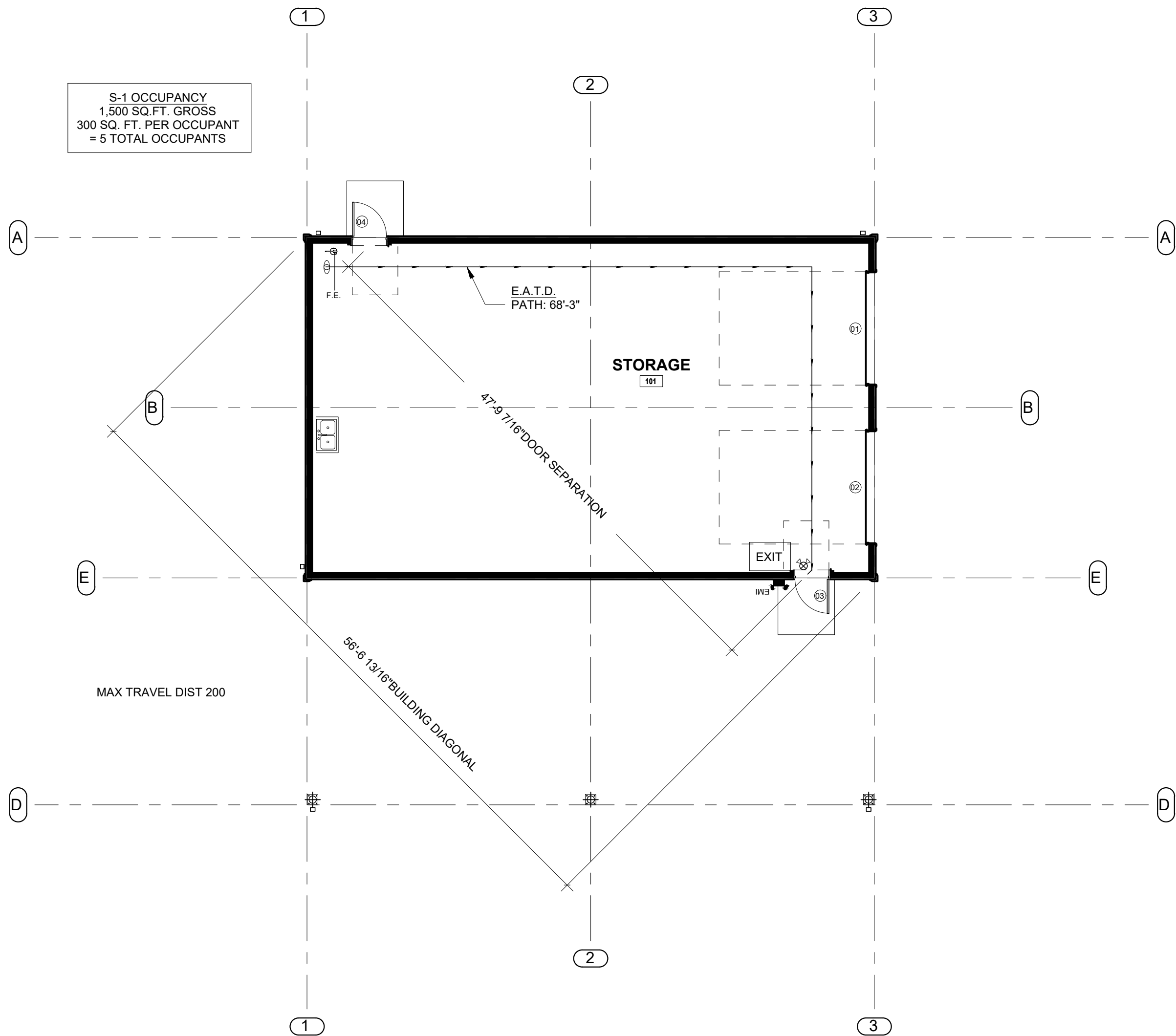


2018 NCSBC BUILDING CODE  
S-1 OCCUPANCY  
FIRST STORY COMMON PATH OF EGRESS TRAVEL  
IS 100FT. WHEN OCCUPANT LOAD IS GREATER THAN  
30 TABLE 1006.2.1



LEGEND	
SYMBOL	DESCRIPTION
⊕ AND / OR ⊞ FE FEC	ABC TYPE FIRE EXTINGUISHER
→	ROUTE OF EXIT ACCESS TRAVEL DISTANCE
⊕	PROPOSED COMBINATION EXIT AND EMERGENCY LIGHT
⊕ <sup>EMI</sup>	PROPOSED EMERGENCY LIGHT WITH BATTERY BACKUP, 120V

OCCUPANT DOOR LOAD DATA											
DOOR NUMBER	REQ'D EXIT	CLEAR DOOR WIDTH	EGRESS WIDTH PER OCCUPANT	MAX OCCUPANT LOAD	ACTUAL OCCUPANT LOAD	PERCENTAGE OF REQ'D CAPACITY	PANIC HARDWARE REQ'D	DELAYED EGRESS LOCKS	AMOUNT OF TIME DELAY	ELECTRO-MAGNETIC LOCKS	HOLD OPEN DEVICE
1	YES	34"	0.2"	39	39	100%	NO	NO	N/A	NO	NO
2	YES	34"	0.2"	40	40	100%	NO	NO	N/A	NO	NO
10	YES	34"	0.2"	65	65	100%	NO	NO	N/A	NO	NO
15	YES	34"	0.2"	65	65	100%	NO	NO	N/A	NO	NO

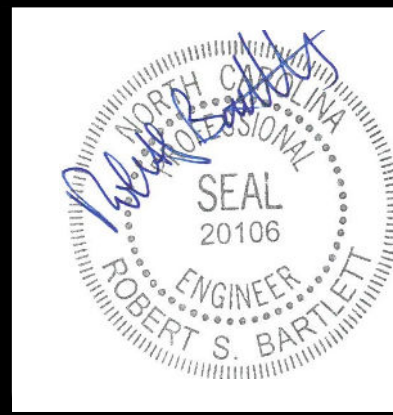


Digitally signed by Robert S. Bartlett  
DN: cn=Robert S. Bartlett, o=Robert S. Bartlett Engineering & Surveying, PC, email=rsb@bartletteng.com, c=US  
Reason: I am the author of this document  
Date: 2025.03.04 07:11:02-05'00'

BARTLETT  
ENGINEERING & SURVEYING, PC



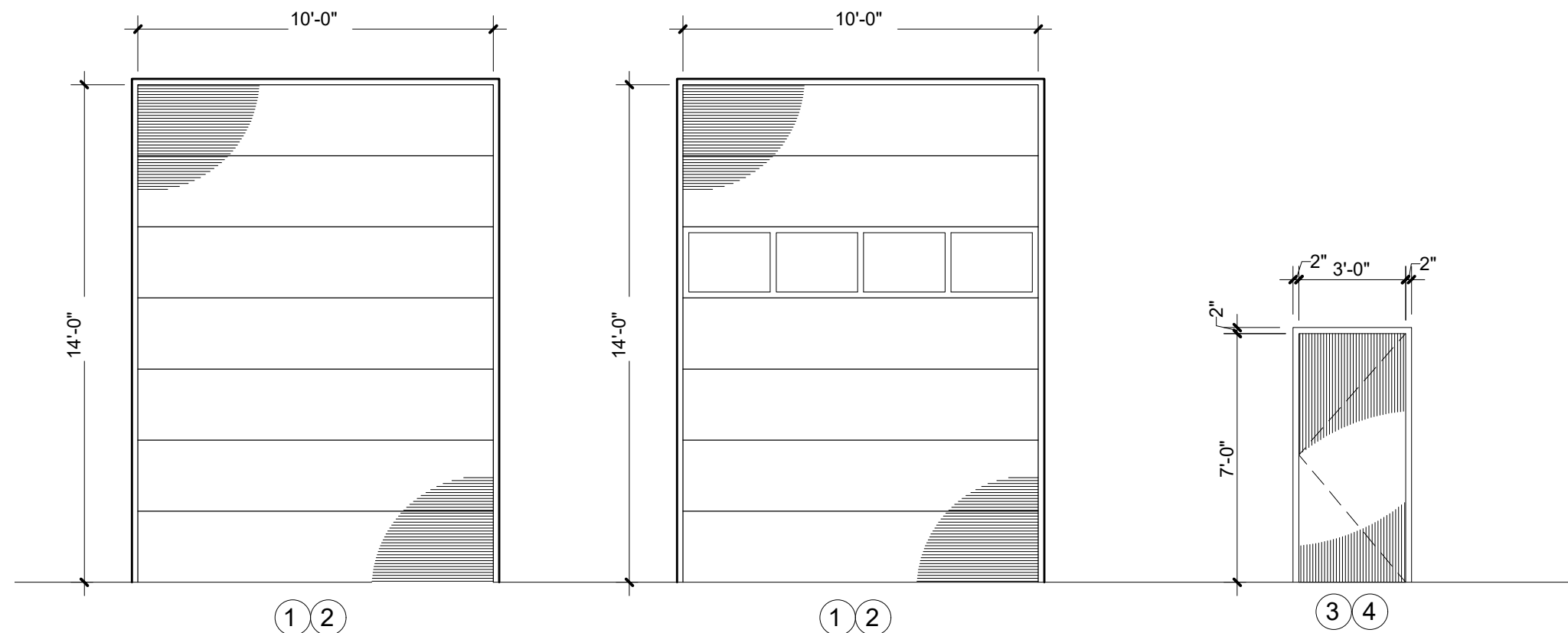
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Rev.	Date:	Description:

Title Sheet:	LIFE SAFETY PLAN
	Building Two 29 Draughn Rd, Tarboro, NC 27886

Drawn by: CGL
Issue Date: 02/10/2025
Project Number: 24-034
Sheet: LS-1



OVERHEAD SECTION DOOR  
DOOR: 10'-0" x 14'-0", METAL,  
NON-INSULATED, STANDARD  
LIFT & MOTORIZED OPERATOR

FRAME: STEEL GC TO  
COORDINATE WITH BUILDING  
MANUFACTURER.

ALTERNATE 2.1 : ONE ROW  
GLASS OVERHEAD SECTION  
DOOR

DOOR: 10'-0" x 14'-0", METAL,  
NON-INSULATED, STANDARD  
LIFT & MOTORIZED OPERATOR

FRAME: STEEL GC TO  
COORDINATE WITH BUILDING  
MANUFACTURER.

DOOR: 3'-0"x7'-0"x1-3/4" 16  
GAUGE PAINTED HOLLOW  
METAL, KEYS HARDWARE,  
ENTRY LEVER LOCKSET,  
CLOSER, WEATHER  
STRIPPING, ALUMINUM  
THRESHOLD, DOOR SWEEP

FRAME: 16 GAUGE PAINTED  
HOLLOW METAL GC TO  
COORDINATE WITH BUILDING  
MANUFACTURER.

### WALL LEGEND

SYMBOL



TUBE METAL FRAME WALL

#### NOTES:

1. INSULATION: ROOF - 3" CLOSED CELL FOAM WITH THERM,  
BARRIER COATING (DC315); WALLS - 2" CLOSED CELL FOAM IN  
CAVITY

#### BUILDING SPECIFICATIONS:

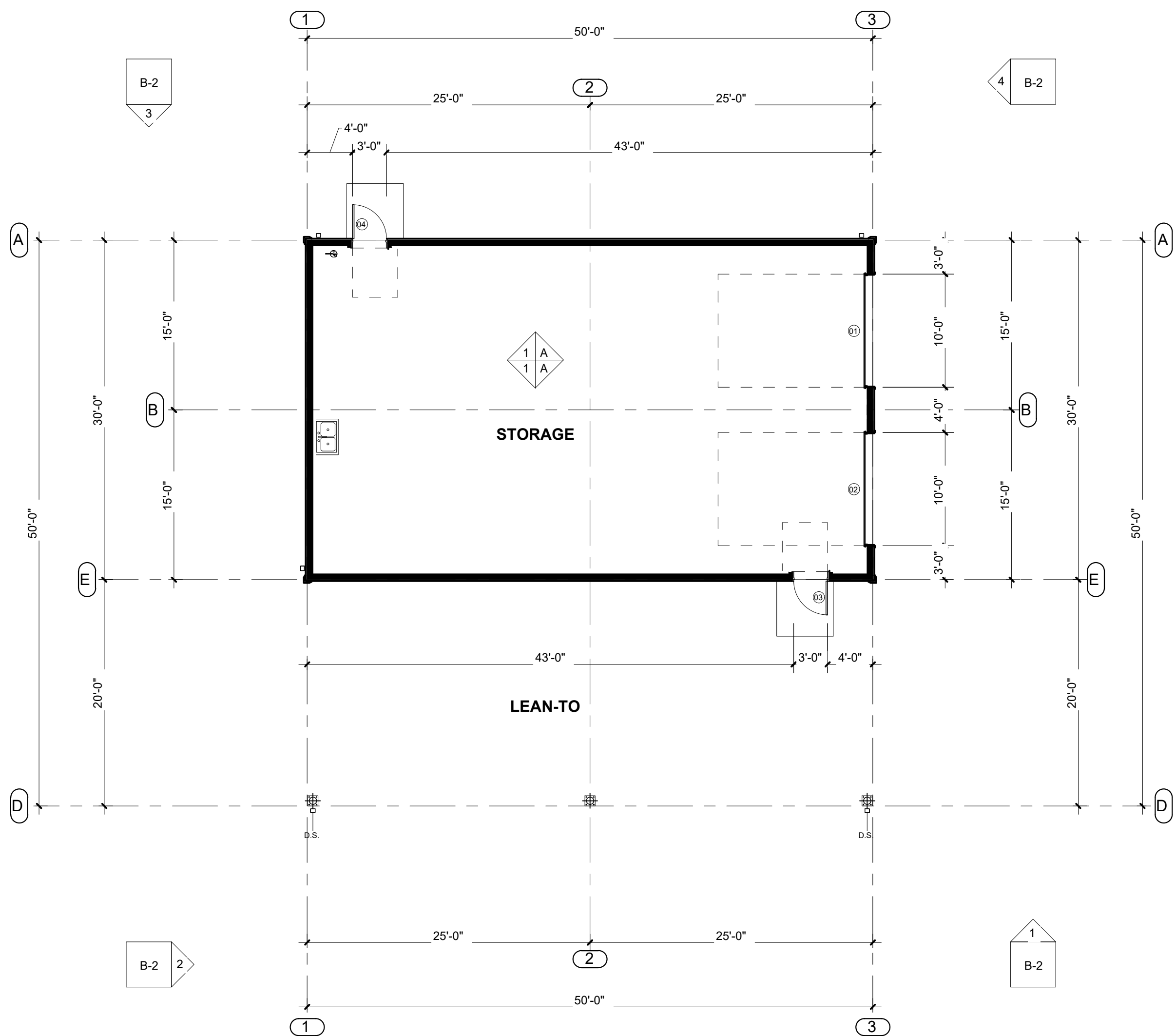
1. GALVANIZED TUBE METAL FRAMED BUILDING
2. 28ga EXPOSED FASTENER METAL WALL AND ROOF PANELS
3. GC/ METAL FRAME BUILDING MANUFACTURER TO PROVIDE BUILDING  
ENGINEERING AND FOUNDATION DESIGN SEALED BY NC REGISTERED  
PROFESSIONAL ENGINEER
4. INTERIOR WALLS TO RECEIVE 28ga METAL WALL LINER PANELS

### ROOM FINISH SCHEDULE

FLOOR	BASE	WALLS	CEILING
1	A	1	A
SEALED CONCRETE	NONE	FULL HEIGHT LINER PANEL	EXPOSED STRUCTURE

#### NOTES:

1. ALL FINISH TO BE AS SPECIFIED, UNLESS OTHERWISE NOTED.
2. ALL COLORS OF FINISHES TO BE SELECTED BY OWNER.
3. GC TO COORDINATE WITH BUILDING MANUFACTURER.



### FLOOR PLAN

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

Owner: David Coker

Legget Volunteer Fire Dept.

29 Draughn Road  
Tarboro, NC 27886

BARTLETT  
ENGINEERING & SURVEYING, PC



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Wilmington, NC 28403-1725  
License # C-16551



Rev: Date: Description:

Title Sheet: FLOOR PLAN

Building Two  
29 Draughn Rd, Tarboro, NC  
27886

Drawn by: CGL

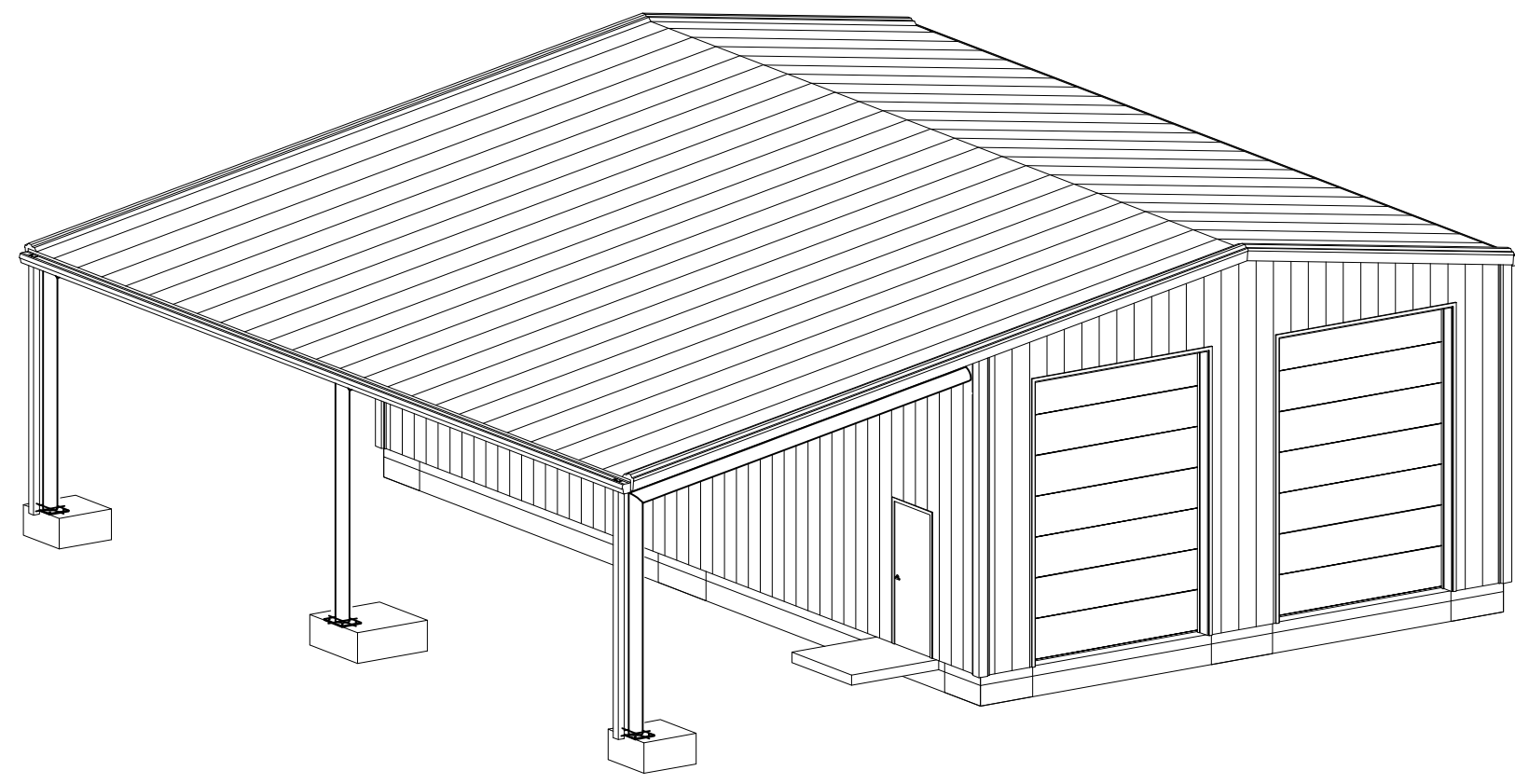
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Project Number: 24-034

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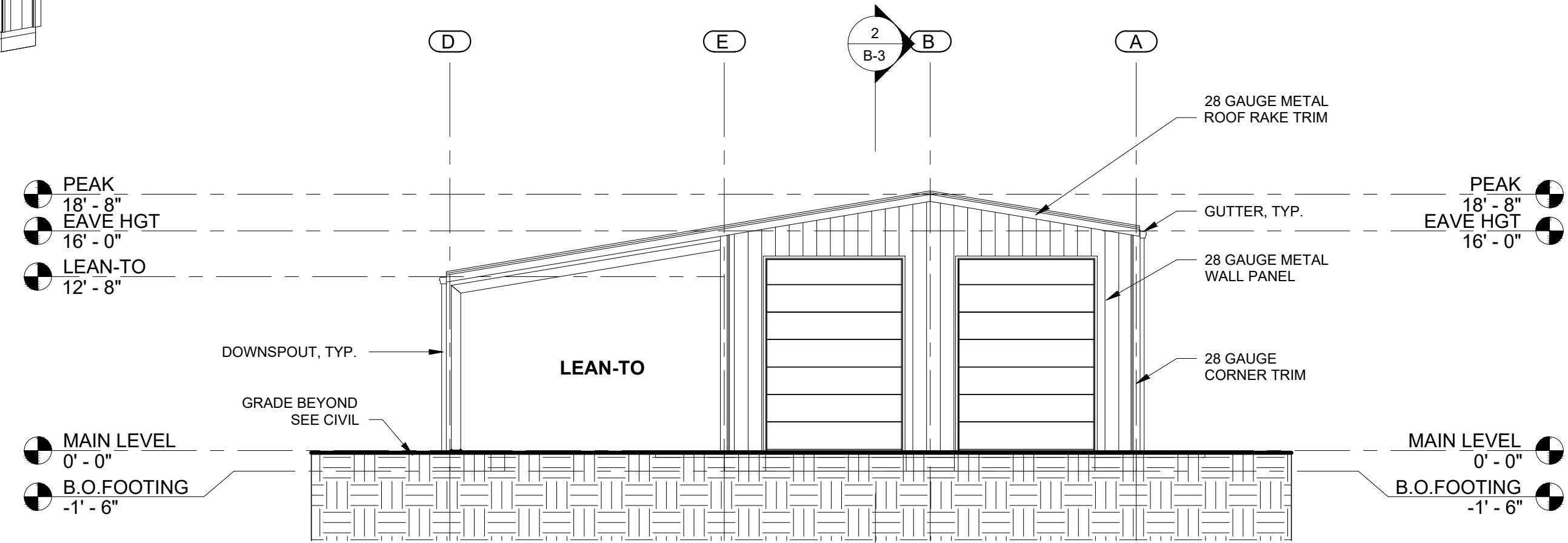
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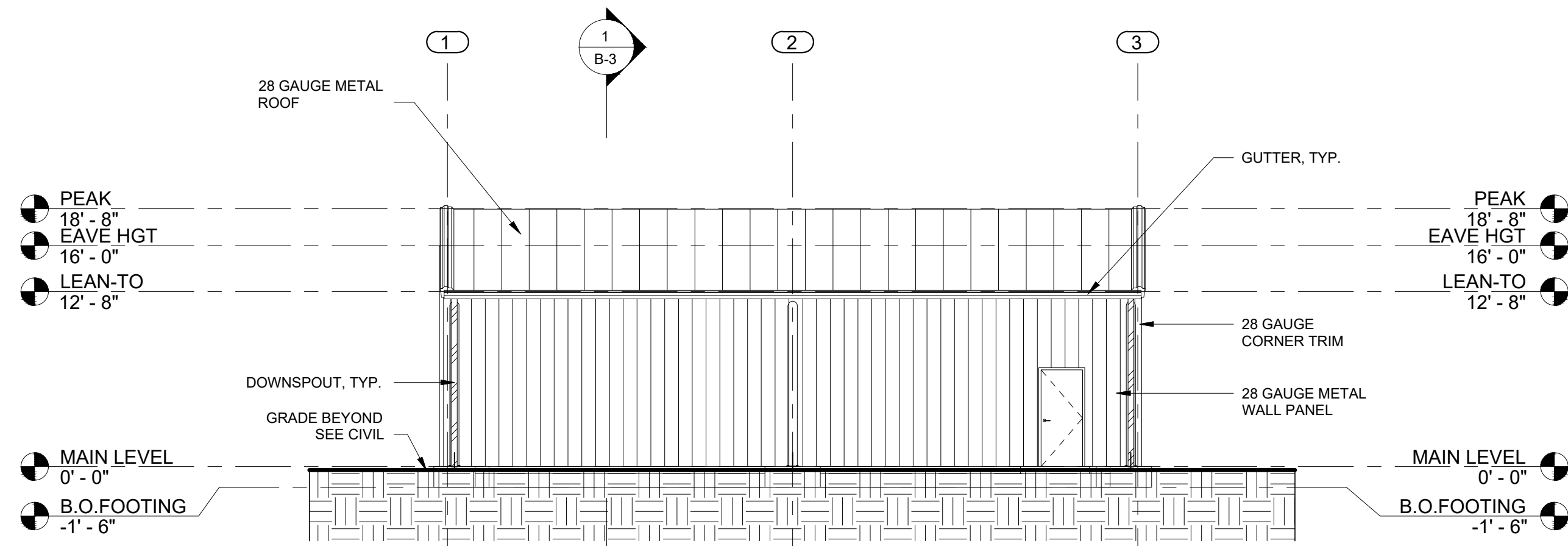


MATERIAL LEGEND	
MATERIALS AND COLORS	
MATERIAL/ COMPONENT	COLOR
ROOF PANELS	DARK GRAY
WALL PANEL	LIGHT GRAY
EXPOSED FRAME	GALVANIZED
GUTTERS & TRIM	WHITE
DOWNSPOUTS	WHITE
OHD'S	WHITE
H.M. DOORS	LIGHT GRAY

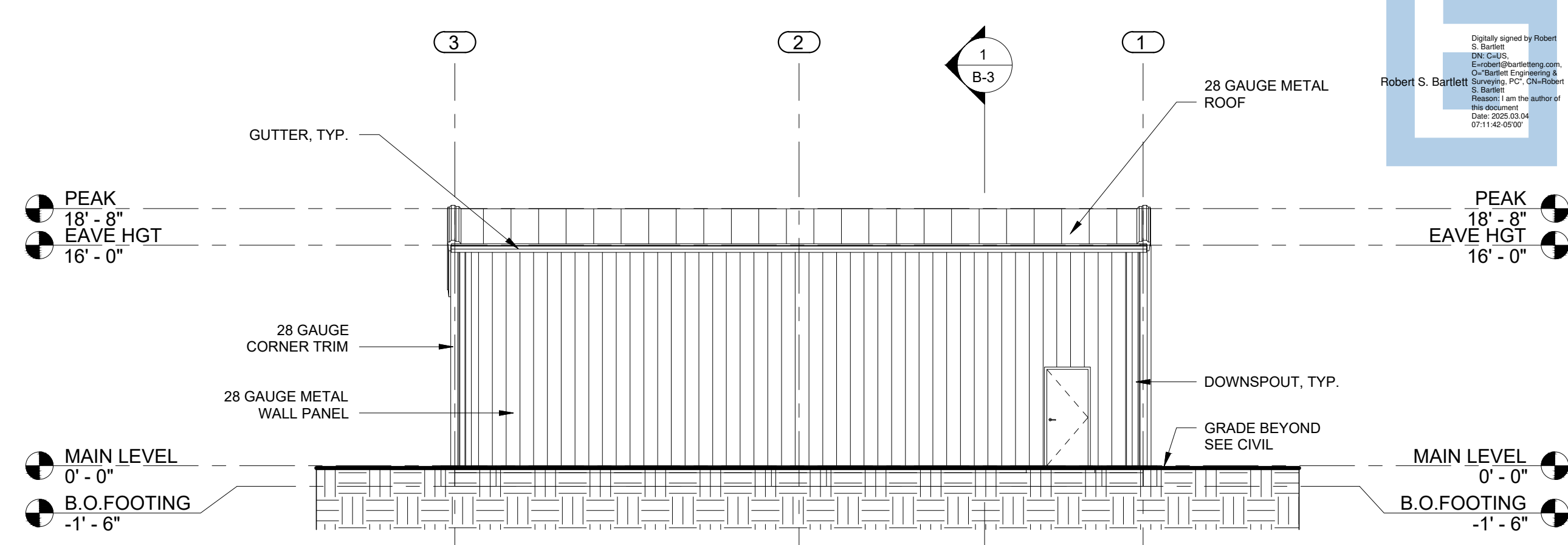
ALL FINISH COLORS TO BE SELECTED BY OWNER AND ARE SUBJECT TO CHANGE.



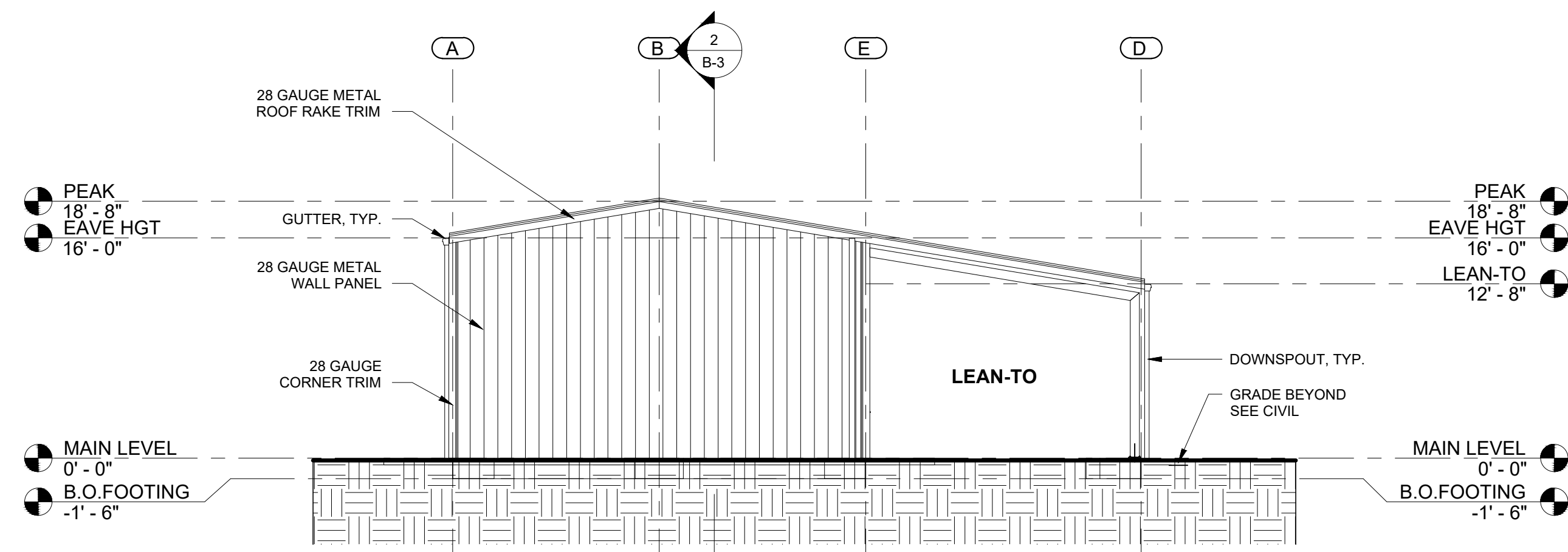
FRONT ENDWALL ELEVATION SCALE: 1/8" = 1'-0"



LEFT SIDEWALL ELEVATION SCALE: 1/8" = 1'-0"



RIGHT SIDEWALL ELEVATION SCALE: 1/8" = 1'-0"



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

Owner: David Coker

Legget Volunteer Fire Dept.  
29 Draughn Road  
Tarboro, NC 27886

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ENGINEERING & SURVEYING, PC



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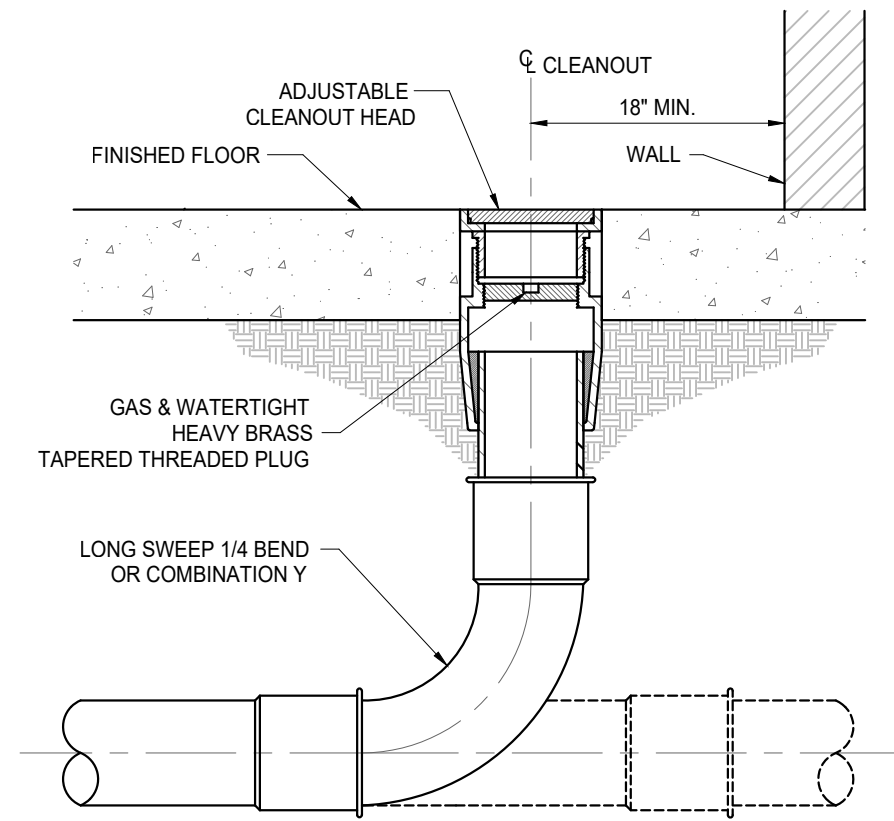
EXTERIOR ELEVATIONS

Building Two  
29 Draughn Rd, Tarboro, NC  
27886

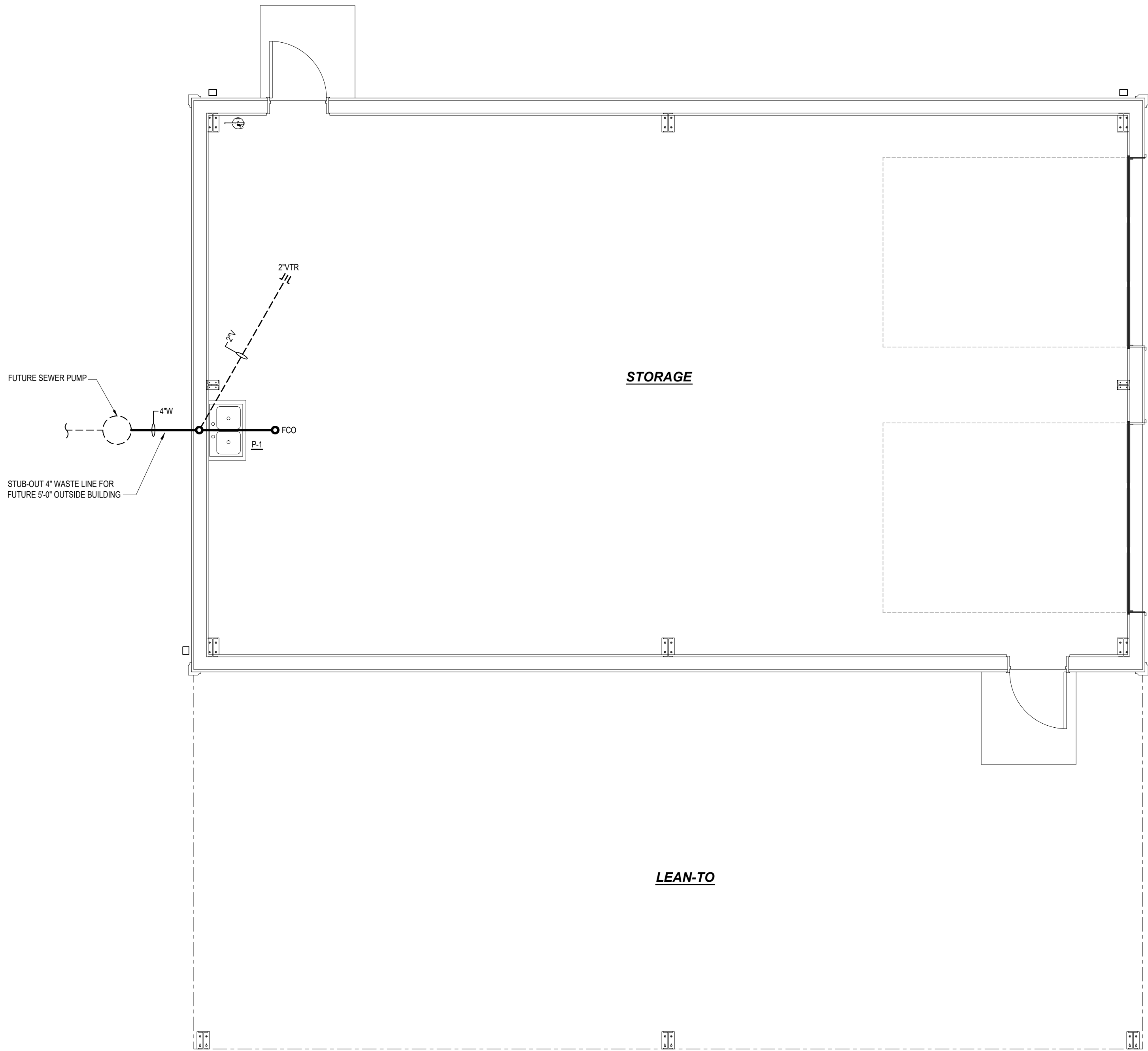
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Sheet: B-2



PLUMBING LEGEND		
DESCRIPTION	SYMBOL	
COLD WATER		CW
VENT PIPING		V
WASTE PIPING		W
FLOOR CLEAN OUT		FCO
SHUT-OFF VALVE		
VENT THRU ROOF		VTR



DETAIL - FLOOR CLEAN OUT  
NTS

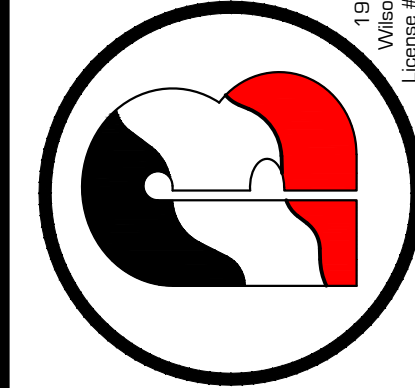


PLUMBING - WASTE & VENT PIPING PLAN  
SCALE: 1/4" = 1'-0"

Prepared for:

David Coker  
Legget Volunteer Fire Dept.  
29 Draughn Road  
Tarboro, NC 27886

**BARTLETT**  
ENGINEERING & SURVEYING, PC



Robert S. Bartlett  
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Rev: Date: Description:

Title Sheet:  
PLUMBING - WASTE & VENT PIPING PLAN

Project:  
Building Two  
29 Draughn Rd.  
Tarboro, NC 27886

Drawn by: J. Thompson  
Issue Date: 02/10/2025  
Project Number: 24-034  
Sheet:

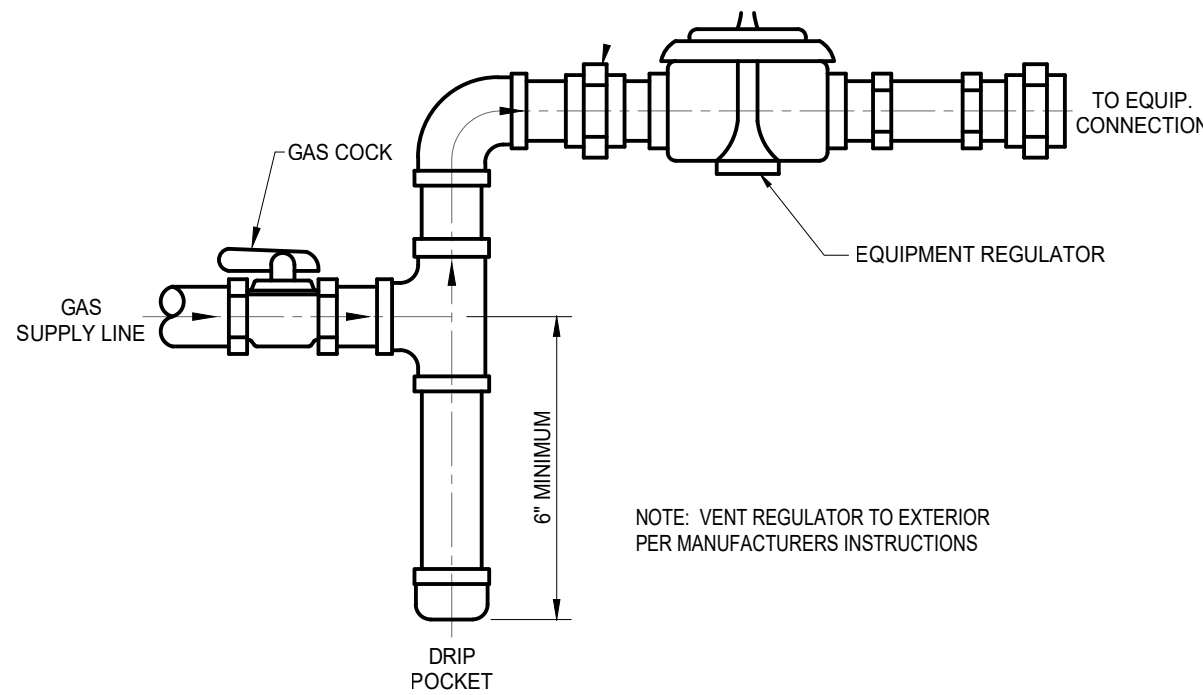
P-2



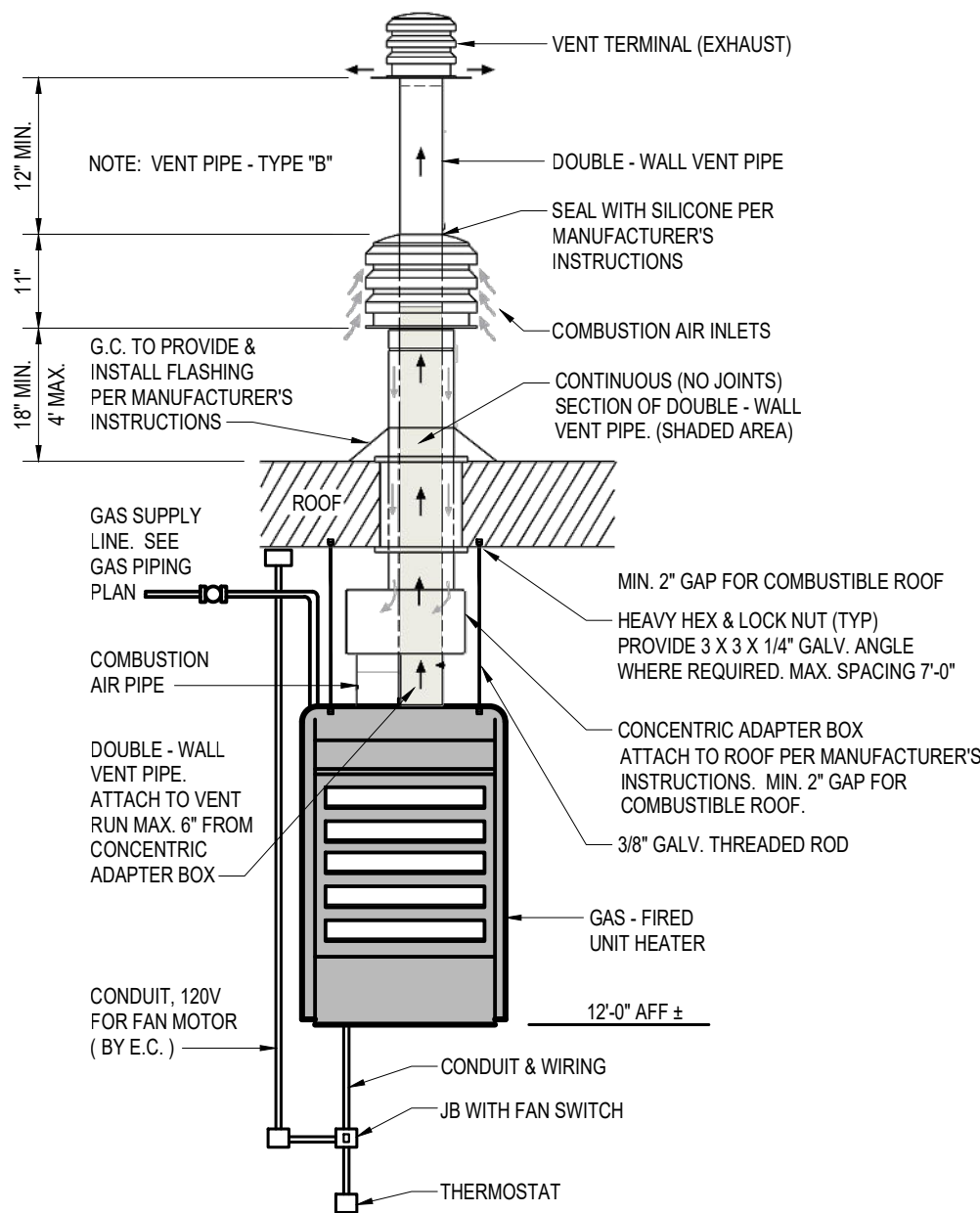
GAS UNIT HEATER SCHEDULE												
MARK	MAKE *	DESCRIPTION	MODEL / SERIES	GAS HEAT INPUT	GAS HEAT OUTPUT	EFF.	FUEL	WEIGHT	ELECTRICAL CHARACTERISTICS			
									VOLTAGE	PH.	MCA	MOCP
GUH-1	REZNOR	GAS UNIT HEATER	UDXC 125	120 MBH	69.72 MBH	83%	LP GAS	106 LBS	120	1	5.5	15
NOTE: PROVIDE HEATER WITH COMBUSTION AIR / VENT KIT WITH CONCENTRIC ADAPTER FOR SEPARATE COMBUSTION CHAMBER. WIRED THERMOSTAT & CEILING SUSPENSION KIT AS REQUIRED.												
*- EQUAL BY MODINE, LENNOX												

### GENERAL MECHANICAL NOTES:

- ALL WORK SHALL BE IN COMPLIANCE WITH LOCAL, STATE, AND NATIONAL CODES.
- GAS UNIT HEATERS SHALL BE PER MANUFACTURER'S INSTRUCTION VENTED TO EXTERIOR FOR SEPARATION OF COMBUSTION AIR & FLUE GASES.



DETAIL - GAS CONNECTION  
NOT TO SCALE



DETAIL - GAS-FIRED UNIT HEATER  
NOT TO SCALE

NOTE: THIS DETAIL IS GENERIC FOR GENERAL GUIDANCE ONLY. GAS - FIRED UNIT HEATER AND VENTING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION DETAILS. DO NOT VARY FROM THOSE INSTRUCTIONS IN ANY WAY.

### GAS PIPING NOTES:

- GAS PIPING TO BE INSTALLED IN COMPLIANCE WITH THE LATEST NC GAS FUEL CODE.
- GAS LINE TO BE BONDED TO BUILDING STEEL IN ACCORDANCE WITH THE LATEST NC GAS FUEL CODE, SECTION 310 ELECTRICAL BONDING.
- GAS PIPING TO BE SCHEDULE 40 BLACK IRON TREADED.
- MARK GAS PIPING WITH GAS & PSI IN BLACK LETTERS ON YELLOW BACKGROUND PER CODE.
- PROVIDE AND INSTALL & TRACER WIRE FOR UNDERGROUND GAS PIPING PER LATEST NC FUEL CODE SECTION 404.15.3 TRACER.
- TAG TOTAL BTU'S & ADDRESS AT BUILDING REGULATOR / METER AS REQUIRED.
- MP REGULATORS SHALL COMPLY WITH SECTION 410.2 MP REGULATORS IN THE LATEST NC FUEL GAS CODE.

### OUTSIDE AIR SUMMARY

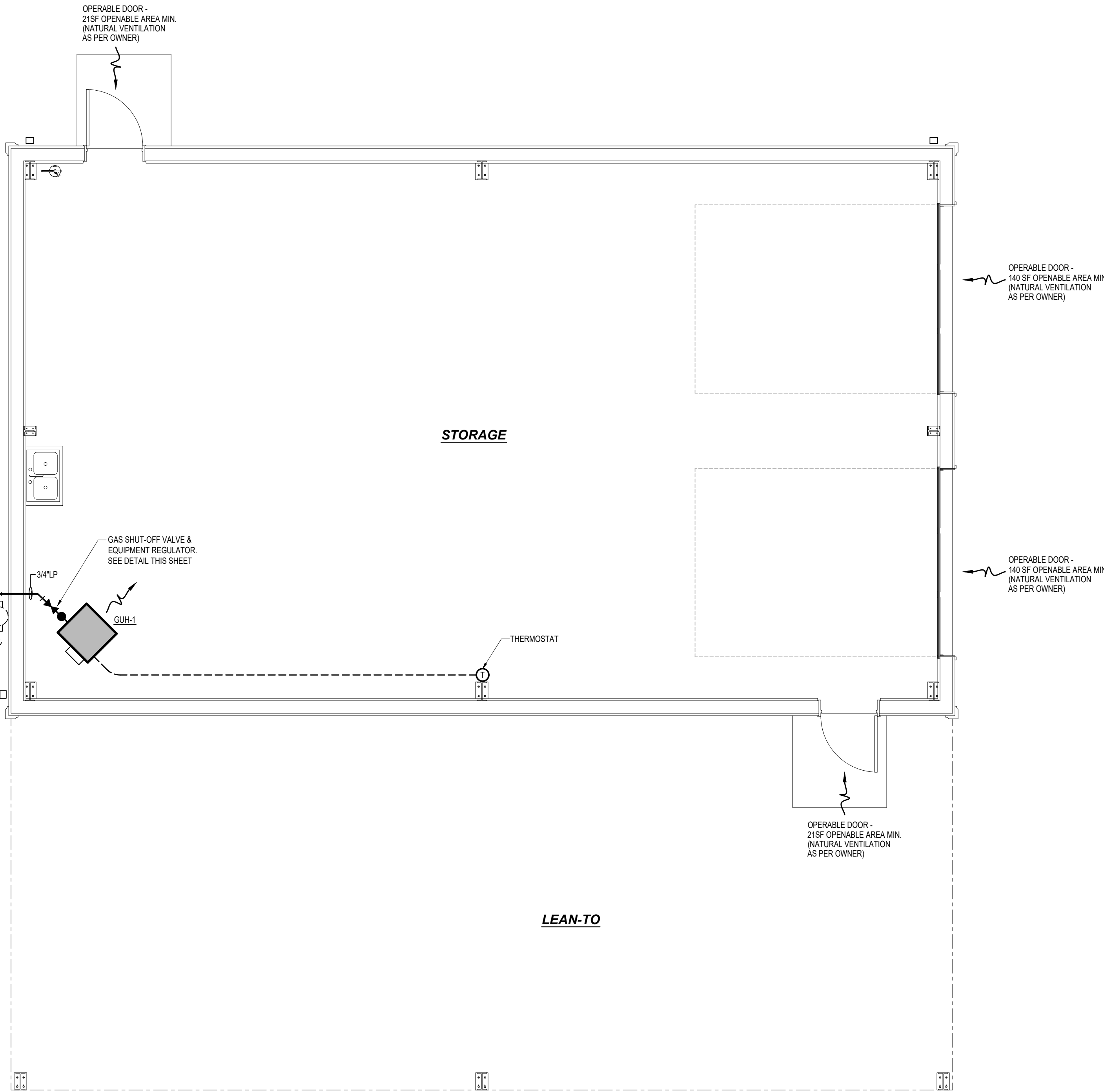
Per Table 402 NC Mechanical Code

#### OUTSIDE AIR REQUIRED:

<u>Storage / Warehouse</u>	
1,500 SF x 0.04 CFM / SF (Section 402 Natural Ventilation) AS PER OWNER	60 SF
TOTAL SF OPENING REQUIRED=	60 SF
TOTAL SF OPENING PROVIDED=	322 SF

GAS SUMMARY: 2 PSI, LP  
GUH-1 125 MBH  
30 FT. FROM SECOND STAGE  
REGULATOR TO MOST REMOTE  
GAS APPLIANCE (APPROX.)

2nd STAGE REGULATOR  
LP GAS U.G. TO 1st STAGE  
REGULATOR AT LP GAS  
TANK. VERIFY EXACT  
LOCATION & CONDITIONS  
AT SITE PRIOR TO  
CONSTRUCTION. (SIZED  
BY LP GAS SUPPLIER)



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

Prepared for:

David Coker  
Leggett Volunteer Fire Dept.  
29 Draughn Road  
Tarboro, NC 27886

**BARTLETT**  
ENGINEERING & SURVEYING, PC



Robert S. Bartlett  
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Rev: Description: Date:

Title Sheet: MECHANICAL PLAN

Project: Building Two  
29 Draughn Rd.  
Tarboro, NC 27886

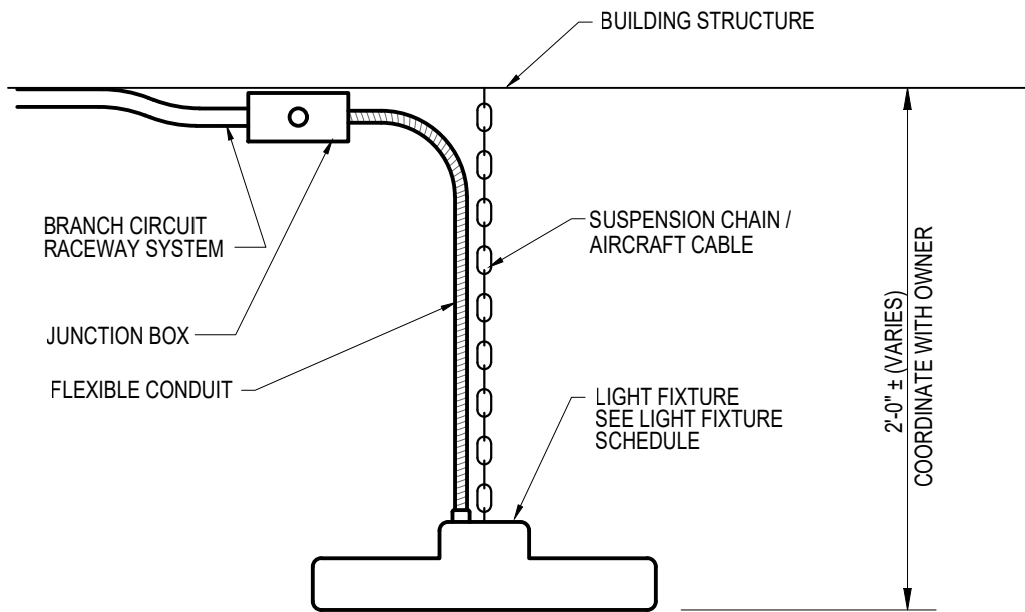
Drawn by: J. Thompson  
Issue Date: 02/10/2025  
Project Number: 24-034  
Sheet:

M-1

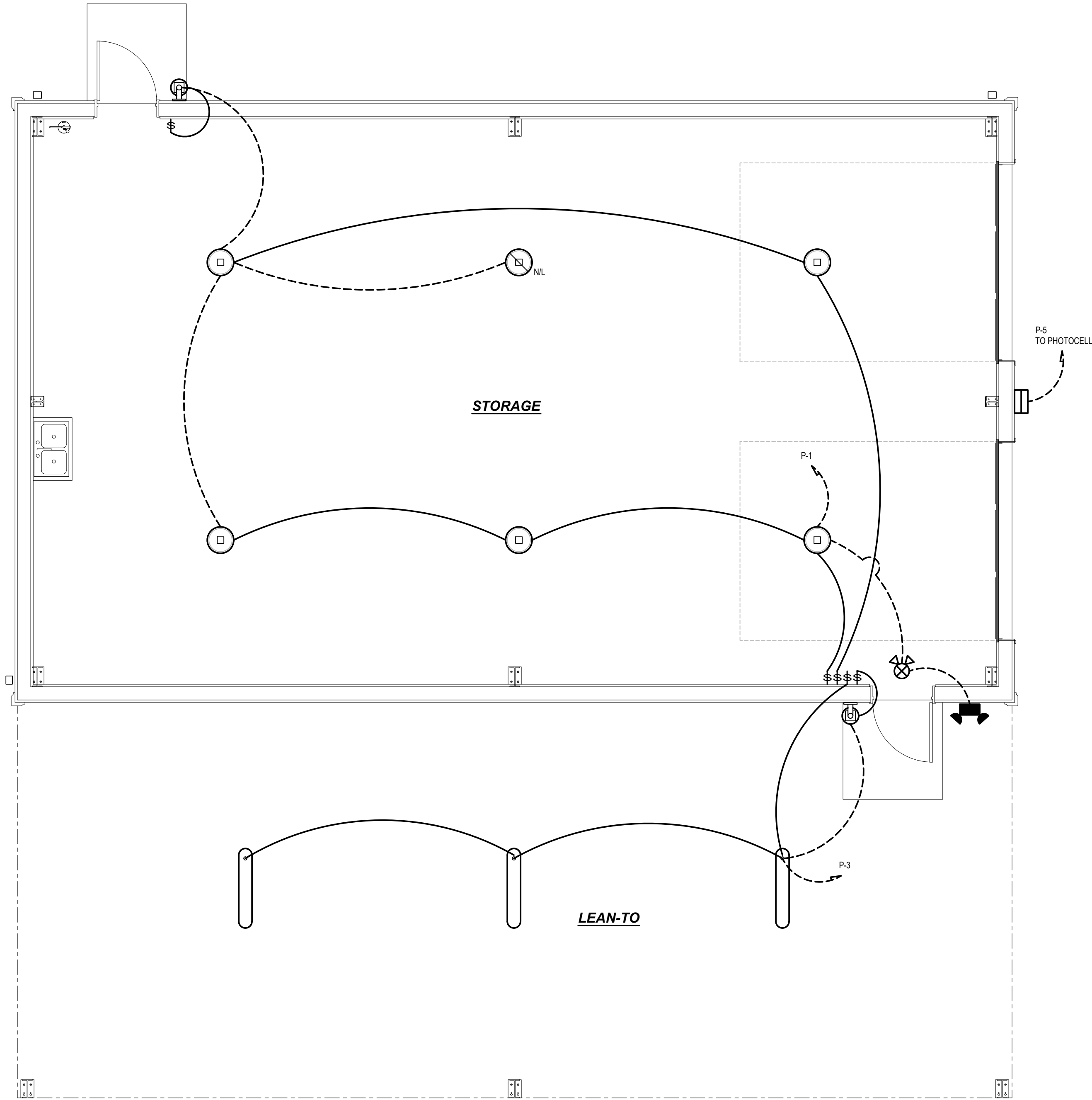
LIGHT FIXTURE SCHEDULE						
SYMBOL	MANUFACTURER	DESCRIPTION	LAMPS			MOUNTING
			NO.	WATTS	TYPE	
	LITHONIA OR EQUAL	*CPRB* COMPACT PRO LED ROUND HIGH BAY FIXTURE. 120V. 18,000 LUMENS & 4,000K COLOR TEMP. & OCCUPANCY SENSOR	-	132	LED'S	SUSPENDED
 NL	LITHONIA OR EQUAL	*CPRB* COMPACT PRO LED ROUND HIGH BAY FIXTURE. 120V. 18,000 LUMENS & 4,000K COLOR TEMP. & OCCUPANCY SENSOR NL FIXTURE - PROVIDE AND INSTALL WITH BATTERY BACKUP	-	132	LED'S	SUSPENDED
	LITHONIA OR EQUAL	*CSV* SERIES 4' LED VAPOR TIGHT STRIP. 120V 4,989 LUMENS, 5,000K COLOR TEMP.	-	42	LED'S	SURFACE
	LITHONIA OR EQUAL	LED EXIT/EMERGENCY COMBO LIGHT WITH BATTERY BACKUP. 120V DUAL REMOTE READY AT EXTERIOR DOORS	-	-	LED'S	CEILING/WALL
	LITHONIA OR EQUAL	REMOTE DUAL HEAD POWERED FROM EMERGENCY LIGHT BATTERY PACK WET/DAMP LOCATION. 120V	-	-	LED'S	WALL
	LITHONIA OR EQUAL	*TWR1* SERIES LED WALL PACK SUITABLE FOR WET/DAMP LOCATION. 120V 8,500 LUMENS, 5,000K COLOR TEMP.	-	59	LED'S	WALL
	LITHONIA OR EQUAL	*TWPX1* "LED" WALL PACK. 2,700 LUMENS, 5,000K COLOR TEMP. SUITABLE FOR WET/DAMP LOCATION. 120V	-	22	LED'S	WALL
NOTES:						
NOTE (1) - FIXTURES SHALL HAVE DISCONNECTING MEANS MEETING THE REQUIREMENTS OF NEC ARTICLE 410.130(G).						
NOTE (2) - COORDINATE ALL FIXTURE REQUIREMENTS, COLOR TEMP, CRI (COLOR RENDERING INDEX) ETC. WITH OWNER PRIOR TO INSTALLATION.						
NOTE (3) - SHIFT LOCATIONS OF FIXTURES IN MECHANICAL AREAS IF/AS REQUIRED TO BEST LIGHT SPACES & AVOID CONFLICTS WITH DUCTS, PIPING, ETC.						
NOTE (4) - PROVIDE CHANNEL SUPPORTS WITH HANGER RODS, ETC. WHERE NECESSARY TO SUSPEND FIXTURES BENEATH DUCTWORK, PIPING, ETC.						
NOTE (5) - PRIOR TO ORDERING OCCUPANCY SENSORS FOR INDICATED FIXTURES REVIEW MANUFACTURER'S ORDERING INFORMATION WITH OWNER FOR APPROVAL.						

**GENERAL ELECTRICAL NOTES:**

- WORK SHALL COMPLY WITH NATIONAL ELECTRICAL CODE (NEC) STATE BUILDING CODE, AND ALL REQUIREMENTS OF THE LOCAL INSPECTOR. ALL WORK SHALL BE BY LICENSED ELECTRICAL CONTRACTOR.
- ALL BRANCH CIRCUITS SHALL BE E.M.T., RIGID CONDUIT OR MC CABLE AS PERMITTED OR REQUIRED. RIGID CONDUIT SHALL BE USED FOR CIRCUITS UNDER SLAB ON GRADE, OR WHERE APPROVED SCHEDULE 80 PVC MAY BE USED. EXPOSED CONDUIT SHALL BE PAINTED PER OWNER'S DIRECTION.
- ALL CONDUCTORS SHALL BE COPPER.
- ALL EQUIPMENT LOADS SHALL BE VERIFIED BEFORE EQUIPMENT AND/OR CIRCUIT INSTALLATION. VERIFY LOCATION OF ALL RECEPTACLES WITH OWNER PRIOR TO INSTALLATION
- PROVIDE GREEN GROUNDING CONDUCTOR CONTINUOUS FROM DEVICE TO PANEL GROUND BAR. PROVIDE DRIVEN GROUND ROD AND COLD WATER GROUND FOR MAIN SERVICE AND ALL POINTS PER N.E.C. REQUIREMENTS.
- EMT FITTINGS SHALL BE HEXAGONAL ALL STEEL, COMPRESSION TYPE.
- RECEPTACLES AND SWITCHES SHALL BE COMMERCIAL GRADE BRYANT, SIERRA, LEVITON BRAND EXCEPT AS SPECIFIED.
- ALL WALL OUTLET BOXES SHALL BE STEEL CITY OR RACO WITH PLATES.
- ALL CIRCUITS SHALL BE TESTED WITH 500 VOLT TESTER PRIOR TO ENERGIZING.
- ELECTRICAL CONTRACTOR SHALL CONNECT TO TERMINALS OF MECHANICAL EQUIPMENT AND EQUIPMENT SUPPLIED BY OWNER.
- MOUNTING HEIGHTS FOR ALL SWITCHES & RECEPTACLES TO BE ADA COMPLIANT PER ANSI A117.1



**TYPICAL MOUNTING DETAIL**  
NO SCALE



**ELECTRICAL - LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"

LIGHTING DATA FOR N.C. ENERGY CODE					
AREA USE	SQ. FT.	WATTS PER SQ.FT. ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER
STORAGE	1,500	0.66	990	792	198

Prepared for:

**BARTLETT**  
ENGINEERING & SURVEYING, PC



Robert S. Bartlett  
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ELECTRICAL - LIGHTING PLAN

Project:

Building Two  
29 Draughn Rd.  
Tarboro, NC 27886

Drawn by: J. Thompson

Issue Date: 02/10/2025

Project Number: 24-034

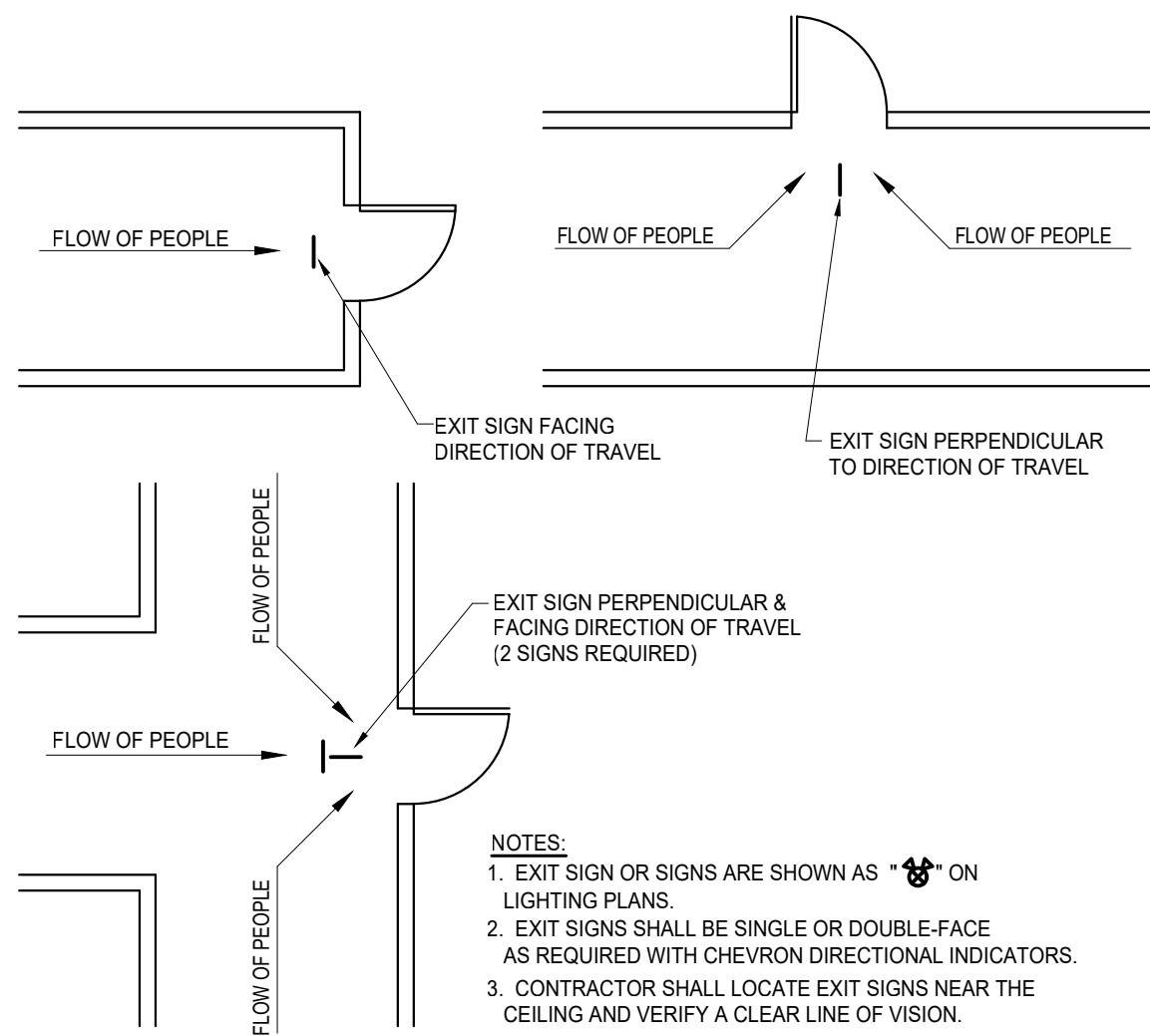
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**E-1**

David Coker  
Leggett Volunteer Fire Dept.  
29 Draughn Road  
Tarboro, NC 27886

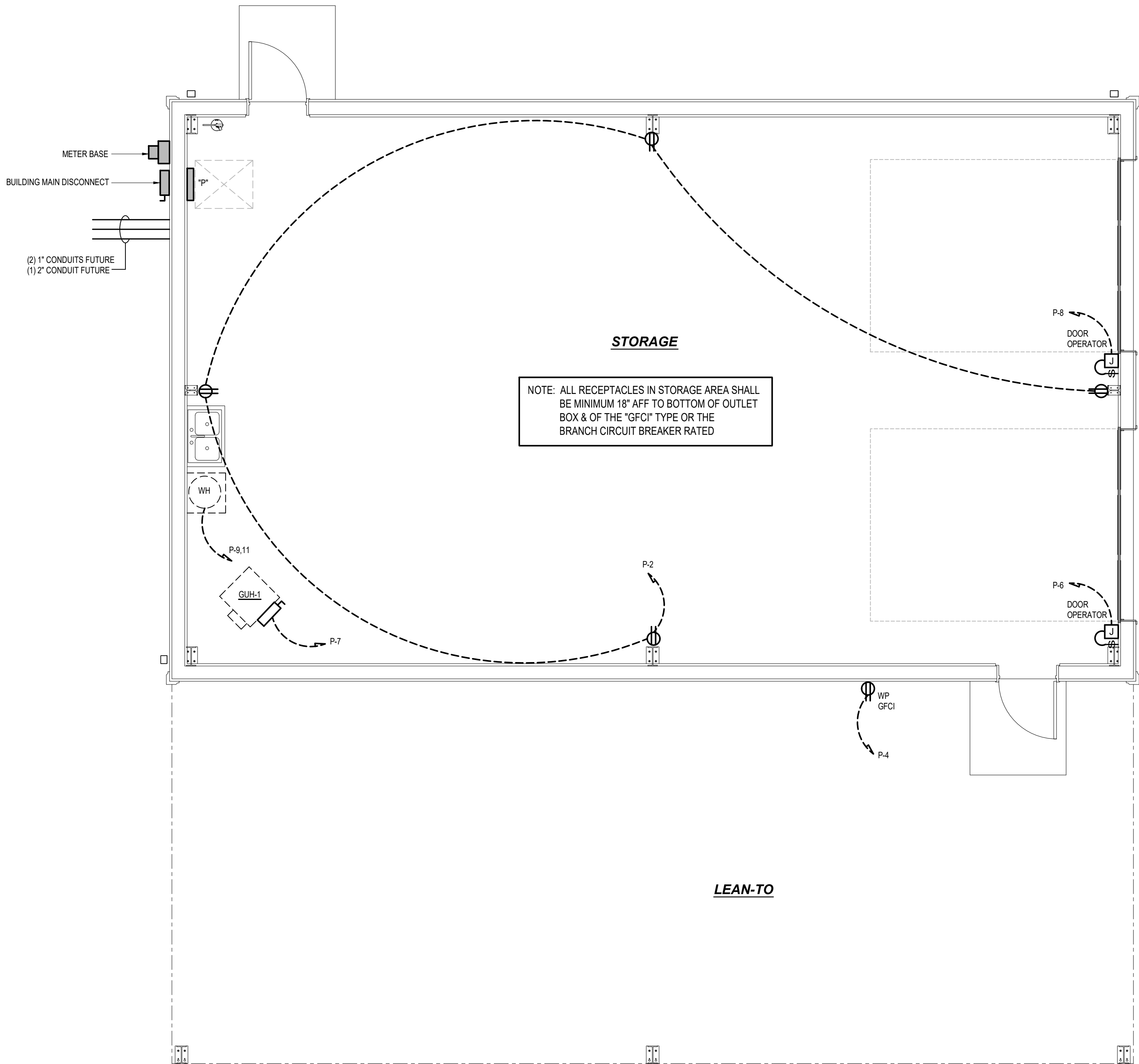


ELECTRICAL LEGEND			
MARK	DESCRIPTION	MARK	DESCRIPTION
	"LED" LIGHT FIXTURE (WALL/CEIL.)		"GFCI" DUPLEX RECEPTACLE
	"LED" HIGH-BAY LIGHT FIXTURE		"GFCI" DUPLEX RECEPTACLE IN WEATHER-PROOF COVER
	"LED" UNSWITCHED LIGHT FIXT. WITH BATTERY STANDBY (SECURITY/ EMERGENCY LT.)		DISCONNECT SWITCH
	"LED" COMBO EXIT/EM. LIGHT		SWITCHED BRANCH CIRCUIT
	"LED" BATTERY OPERATED EMERG. LT. (2-HEAD, WALL, MTD.)		UNSWITCHED BRANCH CIRCUIT
	SINGLE-POLE SWITCH		HOMERUN
	DUPLEX RECEPTACLE		JUNCTION BOX



### LOCATIONS OF EXIT SIGNS

NO SCALE



### ELECTRICAL - POWER PLAN

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

Prepared for:

David Coker  
Legget Volunteer Fire Dept.  
29 Draughn Road  
Tarboro, NC 27886

**BARTLETT**  
ENGINEERING & SURVEYING, PC



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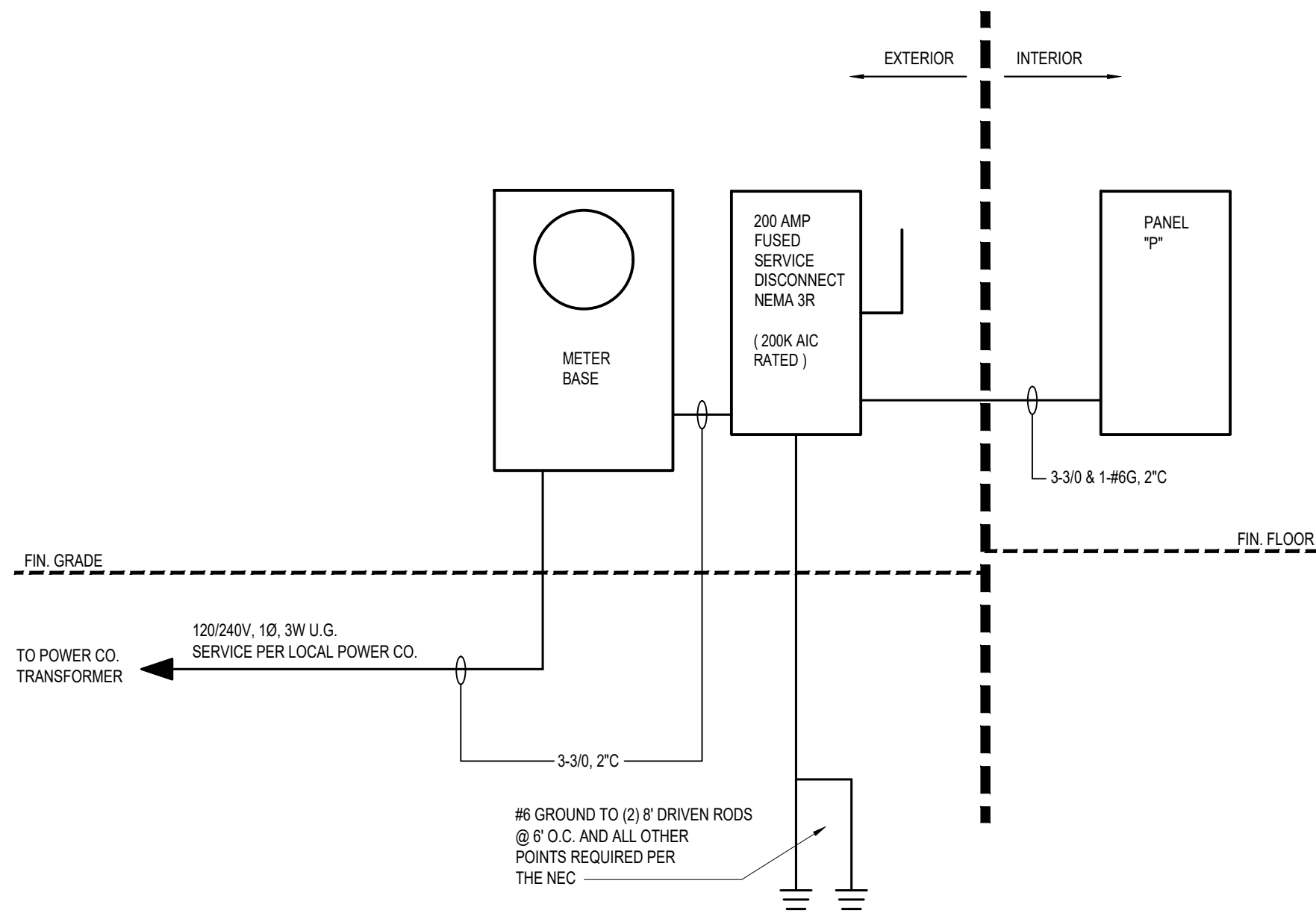
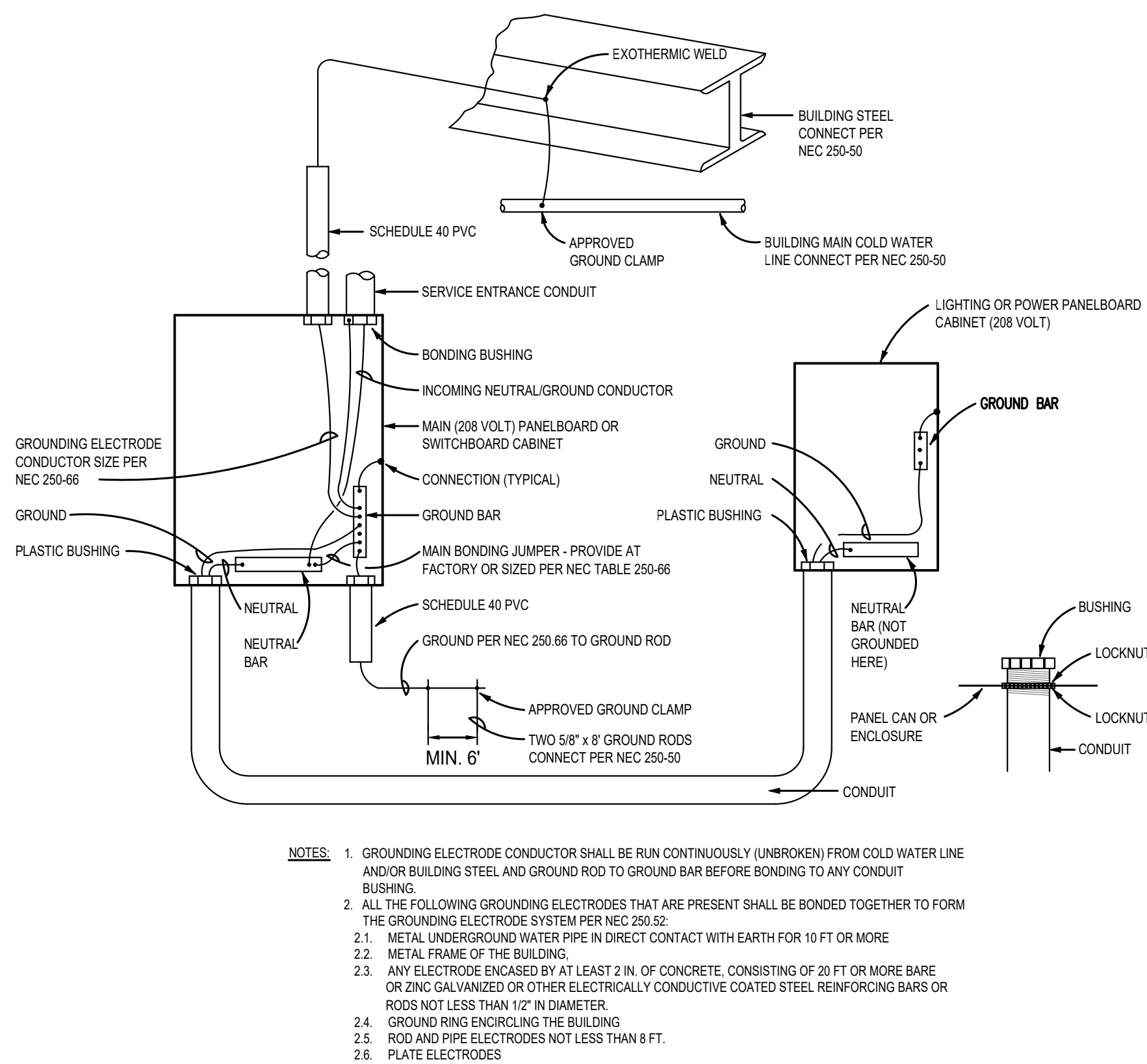
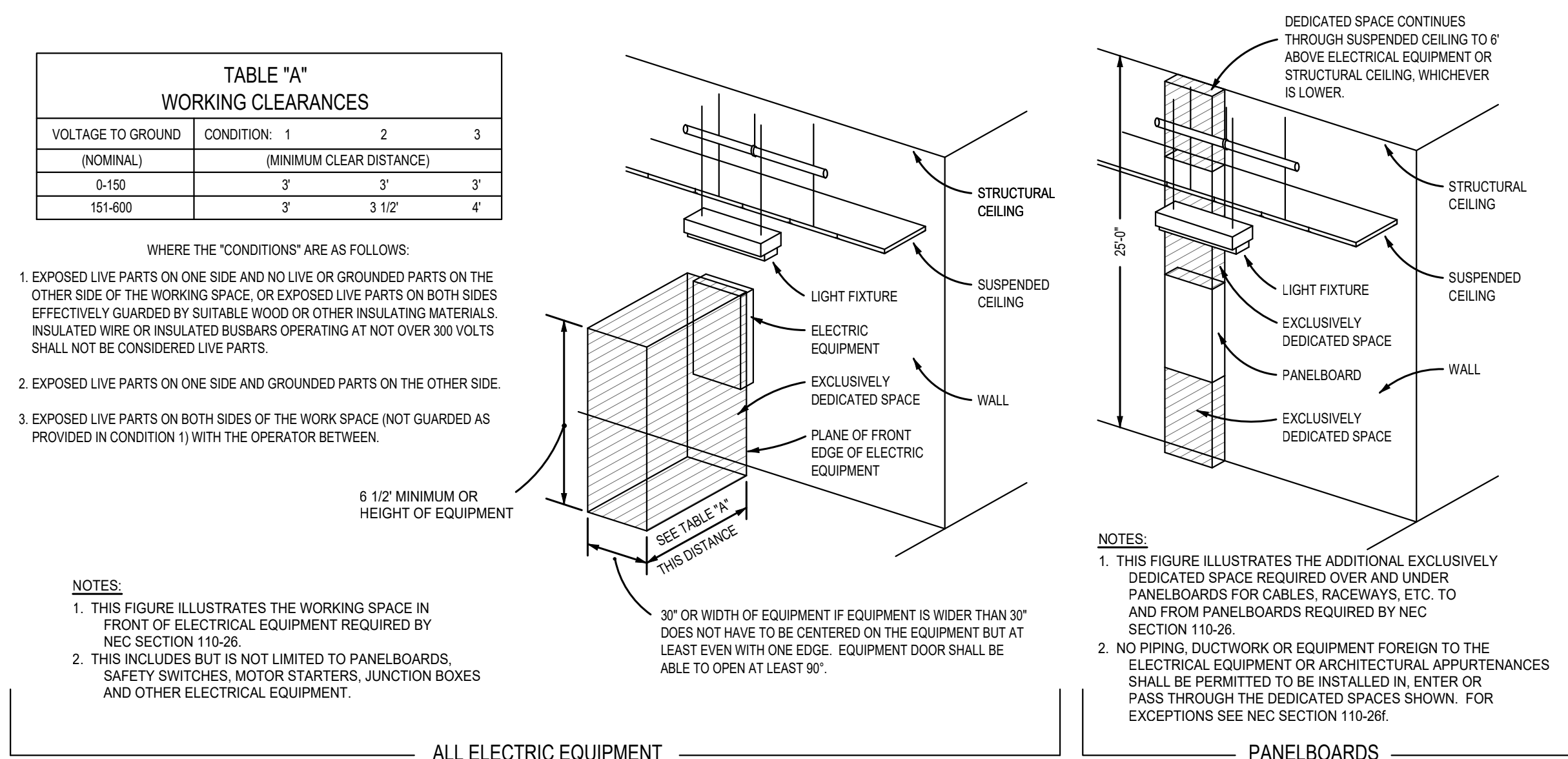
Title Sheet:

ELECTRICAL - POWER PLAN

Building Two  
29 Draughn Rd.  
Tarboro, NC 27886

Drawn by: J. Thompson  
Issue Date: 02/10/2025  
Project Number: 24-034  
Sheet:

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**ELECTRICAL PANEL SCHEDULE & RISER**  
**NO SCALE**

**NOTES:**

- AIC RATINGS SHALL BE VERIFIED AND PROPER PLAQUES APPLIED PRIOR TO ENERGIZING.
- ELECTRICAL CONTRACTOR SHALL LABEL UTILITY AVAILABLE FAULT CURRENT AND DATE PER NEC.
- VERIFY EXACT ELECTRICAL SERVICE REQUIREMENTS WITH LOCAL POWER COMPANY PRIOR TO ORDERING ELECTRICAL GEAR.

PANEL: P					MTD: SURFACE					TYPE: "SQ-D"				
VOLTS: 120/240					PHASE: 1					WIRE: 3				
225 AMP MLO					10K AIC									
L1	L2	CIRCUIT	POLES	TRIP	ASSIGNMENT	PHASE	ASSIGNMENT	TRIP	POLES	CIRCUIT	L1	L2		
6.8		1	1	20	LIGHTS	Ø	RECEPT.	20	1	2	6			
	1.3	3	1	20	LIGHTS	Ø	RECEPT.	20	1	4		1.5		
0.5		5	1	20	LIGHTS	Ø	DOOR OPERATOR	20	1	6	12			
	5.5	7	1	15	GUH-1	Ø	DOOR OPERATOR	20	1	8		12		
18.75		9	2	30	WATER HEATER	Ø	SPACE			10	X			
	18.75	11				Ø	SPACE			12	X	X		
X		13			SPACE - FUTURE SEWER PUMP	Ø	SPACE			14	X			
	X	15				Ø	SPACE			16		X		
X		17			SPACE	Ø	SPACE			18	X			
	X	19			SPACE	Ø	SPACE			20		X		
X		21			SPACE	Ø	SPACE			22	X			
	X	23			SPACE	Ø	SPACE			24		X		
X		25			SPACE	Ø	SPACE			26	X			
	X	27			SPACE	Ø	SPACE			28		X		
X		29			SPACE	Ø	SPACE			30	X			
26.05	25.55	TOTAL				L1 TOTAL - 44.05 AMPS L2 TOTAL - 39.05 AMPS		41.6 AMPS TOTAL CONNECTED		TOTAL		18	13.5	

ELECTRICAL LOAD SUMMARY			
LOAD	DEMAND	DIVERSITY FACTOR	TOTAL DEMAND
LIGHTING	1.03 KW	125%	1.29 KW
RECEPTACLES	0.90 KW	100%	0.90 KW
GAS HEATER	0.66 KW	100%	0.66 KW
DOOR OPERATORS	2.88 KW	100%	2.88 KW
WATER HEATER	4.50 KW	100%	4.50 KW
FUTURE	7.20 KW	100%	7.20 KW
			TOTAL - 17.43 KW
			@ 240V 1Ø = 72.7 AMPS
			72.7 AMPS X 1.25 = 90.9 AMPS