

**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: GROOMS EQUIPMENT STORAGE & TRAINING BUILDING  
 Address: 3254 Boywood Rd, Graham NC Zip Code 27253  
 Owner/Authorized Agent: Charles Sedoris Phone # (336) 603-8029 E-Mail charles@groomsequipment.com  
 Owned By: Private  
 Code Enforcement Jurisdiction: County

**CONTACT:**

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Martha Mason Architect	MM Mason AIA	7267	(336) 684-1021	
Civil					
Electrical	Alam Consult Engineers	SJBengel PE	050989	(336) 449-4558	
Fire Alarm					
Plumbing	Alam Consult Engineers	SJBengel PE	050989	(336) 449-4558	
Mechanical	Alam Consult Engineers	SJBengel PE	050989	(336) 449-4558	
Sprinkler-Standpipe					
Structural					
Retaining Walls >5' High					
Other					

2018 NC BUILDING CODE: New Building

2018 NC EXISTING BUILDING CODE: Select one Select one Select one  
 CONSTRUCTED: (date) \_\_\_\_\_ CURRENT OCCUPANCY(S) (Ch. 3): \_\_\_\_\_  
 RENOVATED: (date) \_\_\_\_\_ PROPOSED OCCUPANCY(S) (Ch. 3): \_\_\_\_\_

RISK CATEGORY (Table 1604.5): Current: II Proposed: II

**BASIC BUILDING DATA**

Construction Type: V-B  
 Sprinklers: No Select one  
 Standpipes: No  
 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
3 <sup>rd</sup> Floor			
2 <sup>nd</sup> Floor			
Mezzanine			
1 <sup>st</sup> Floor	0	1400	1400
Basement			
<b>TOTAL</b>	<b>0</b>	<b>1400</b>	<b>1400</b>

2018 NC Administrative Code and Policies

**FIRE PROTECTION REQUIREMENTS**

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	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							
Exterior							
North	0	0					
East	0	0					
West	0	0					
South	0	0					
Interior		N/A					
Nonbearing Walls and Partitions							
Exterior walls							
North		N/A					
East		N/A					
West		N/A					
South		N/A					
Interior walls and partitions		0	0				
Floor Construction including supporting beams and joists		N/A					
Floor Ceiling Assembly		0	0				
Columns Supporting Floors		N/A					
Roof Construction, including supporting beams and joists		0	0				
Roof Ceiling Assembly		0	0				
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

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**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

**ACCESSIBLE PARKING  
(SECTION 1106)**

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	
Existing						
<b>TOTAL</b>						

**PLUMBING FIXTURE REQUIREMENTS  
(TABLE 2902.1)**

USE SPACE		WATERCLOSETS		URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE		UNISEX	REGULAR	ACCESSIBLE			
		EXIST'G	0		0	0	0		0	0
NEW	0	0	1	0	0	1	1	0	0	
REQ'D	0	0	1	0	0	1	0	0	0	

**SPECIAL APPROVALS**

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

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**ALLOWABLE AREA**

Primary Occupancy Classification(s): Storage - S-2 Select one Select one Select one Select one  
 Accessory Occupancy Classification(s): Select one

Incidental Uses (Table 509): \_\_\_\_\_  
 Special Uses (Chapter 4 - List Code Sections): \_\_\_\_\_  
 Special Provisions: (Chapter 5 - List Code Sections): \_\_\_\_\_  
 Mixed Occupancy: Select one Separation: Select one Exception: \_\_\_\_\_

Select one  

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$
 \_\_\_\_\_ + \_\_\_\_\_ + ..... = \_\_\_\_\_ ≤ 1.00

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

<sup>1</sup> 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 = \_\_\_\_\_ (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  $I_f = 100[F/P - 0.25] \times W/30 =$  \_\_\_\_\_ (%)  
<sup>2</sup> Unlimited area applicable under conditions of Section 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 406.5.4.  
<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'	13'-0"	
Building Height in Stories (Table 504.4) <sup>3</sup>	2	1	

<sup>1</sup> Provide code reference if the "Shown on Plans" 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 406.5.4.

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**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'	No limit	No limit	No limit

**LIFE SAFETY SYSTEM REQUIREMENTS**

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

**LIFE SAFETY PLAN REQUIREMENTS**

- Life Safety Plan Sheet #: A-1
- 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

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**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: Select one

Exempt Building: Yes Provide code or statutory reference: Section C101.2 exception 2, NCSEC

Climate Zone: Select one  
 Method of Compliance: Select one  
 (If "Other" specify source here) \_\_\_\_\_

**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: \_\_\_\_\_  
 projection factor: \_\_\_\_\_  
 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: \_\_\_\_\_

2018 NC Administrative Code and Policies

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 Gibsonville, N.C. 27249  
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**GROOMS EQUIPMENT**

3254 Boywood Rd.  
 Graham, NC 27253

**GROOMS EQUIPMENT  
TRAINING BUILDING**

Graham, North Carolina

DRAWING NAME  
 APPENDIX B  
 (1 OF 2)



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DATE  
 8/24/22

SCALE  
 AS NOTED

JOB NO.  
 22052

SHEET

**G-1**

**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<sub>s</sub>) Select one  
Seismic (I<sub>e</sub>) Select one

Live Loads: Roof \_\_\_\_\_ psf  
Mezzanine \_\_\_\_\_ psf  
Floor \_\_\_\_\_ psf

Ground Snow Load: \_\_\_\_\_ psf

Wind Load: Ultimate Wind Speed \_\_\_\_\_ mph (ASCE-7)  
Exposure Category Select one

**SEISMIC DESIGN CATEGORY: Select one**

Provide the following Seismic Design Parameters:

Risk Category (Table 1604.5) Select one

Spectral Response Acceleration S<sub>s</sub> \_\_\_\_\_ %g S<sub>1</sub> \_\_\_\_\_ %g

Site Classification (ASCE 7) Select one

Data Source: Select one

Basic structural system Select one

Analysis Procedure: Select one

Architectural, Mechanical, Components anchored? Select one

**LATERAL DESIGN CONTROL: Select one**

**SOIL BEARING CAPACITIES:**

Select one \_\_\_\_\_ psf

Pile size, type, and capacity \_\_\_\_\_

Refer to Structural Drawings

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**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: Select one

**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

Refer to Electrical Drawings

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**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: \_\_\_\_\_  
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: \_\_\_\_\_

Refer to Mechanical Drawings

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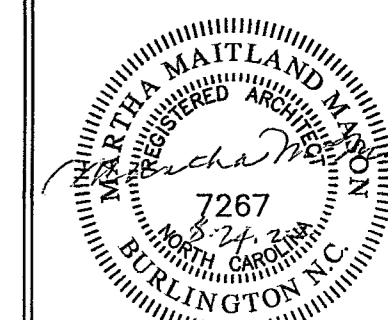
**GROOMS EQUIPMENT**

3254 Boywood Rd.  
Graham, NC 27253

**GROOMS EQUIPMENT  
TRAINING BUILDING**

Graham, North Carolina

DRAWING NAME  
APPENDIX 'B'  
(2 OF 2)



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8/24/22

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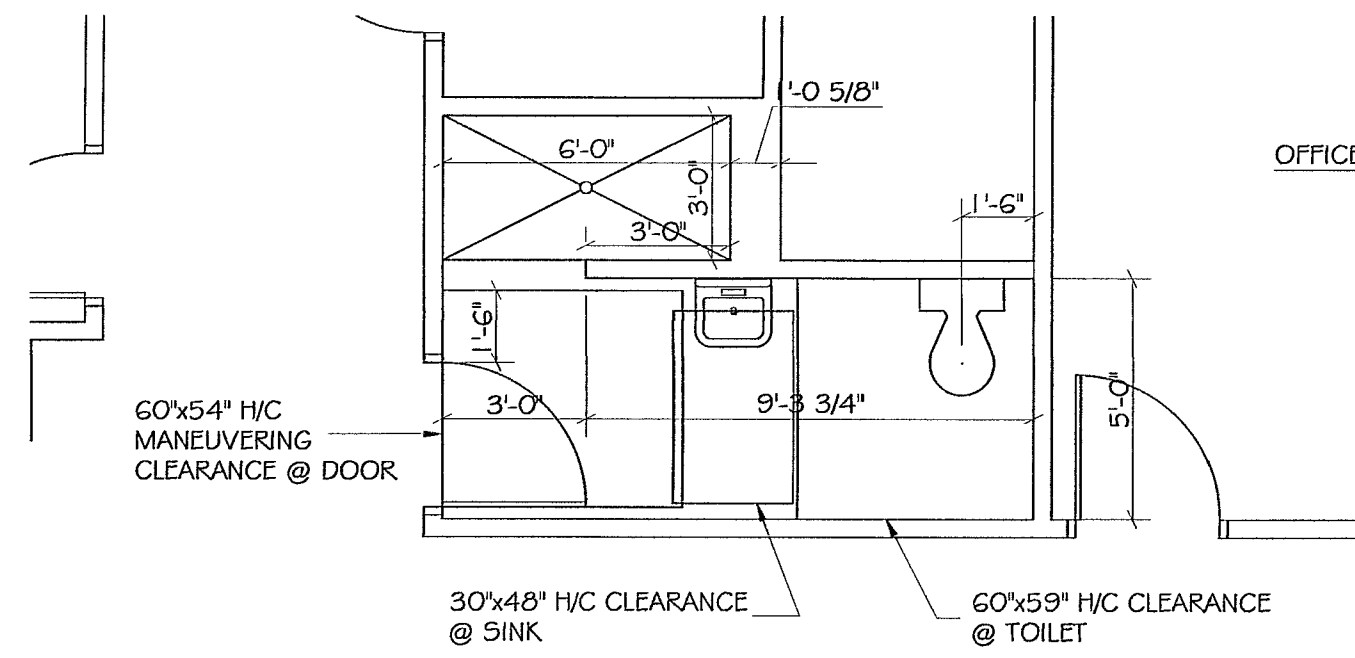
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G-2

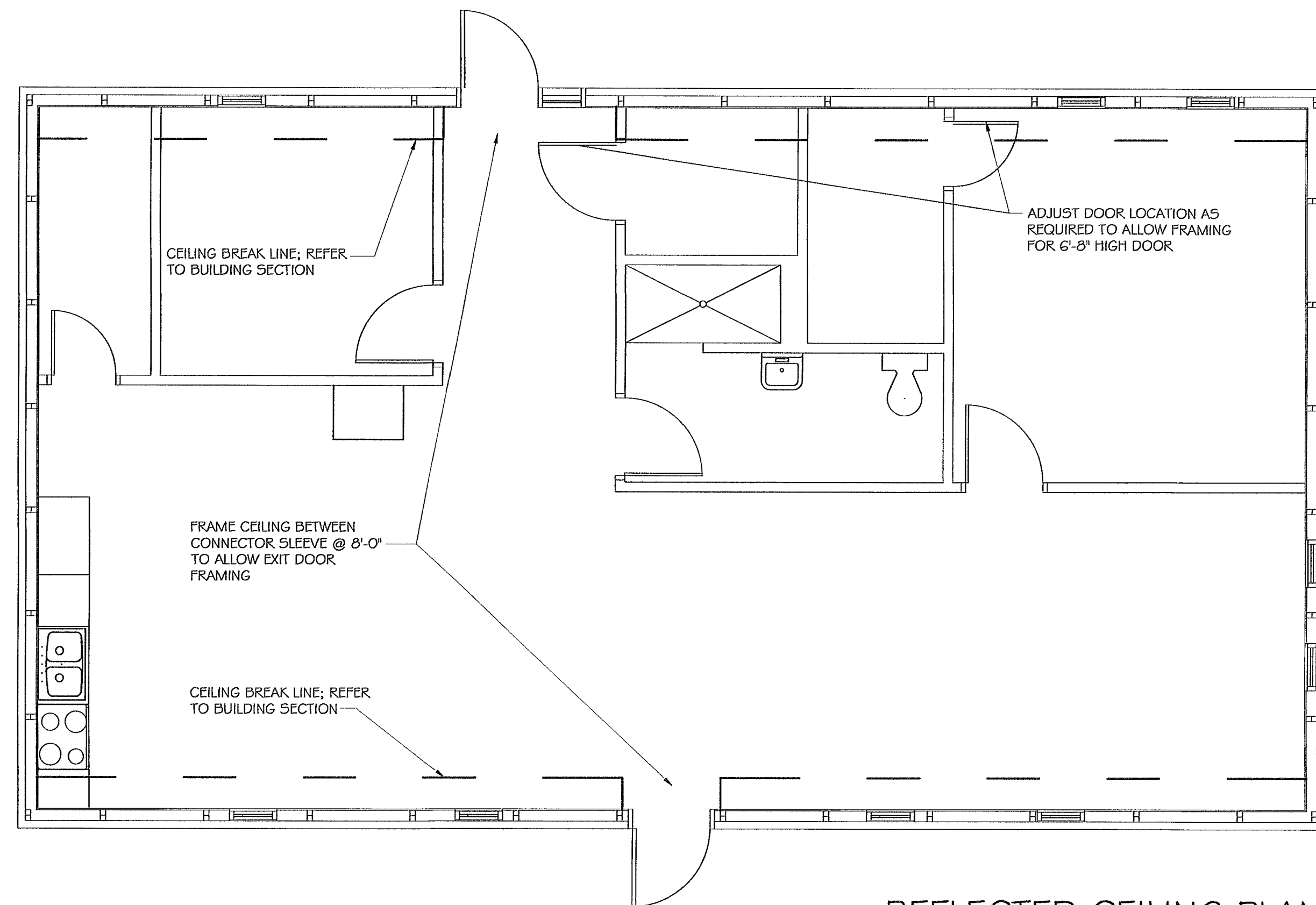
GENERAL NOTES:

1. ALL FLAT CEILINGS TO BE PAINTED GWB @ 8'-0" AFF
2. PRIOR TO PLACING SOG, CONFIRM FLOOR FINISHES W/OWNER TYP
3. PROVIDE SOUND INSULATION IN CAVITY OF ALL INTERIOR WALLS
4. PROVIDE PRIVACY LOCK @ TOILET ROOM DOOR
5. ALL DOORS TO BE PROVIDED BY OWNER. DOOR SIZES ARE 3'-0" X 6'-8"
6. ALL WINDOWS TO BE PROVIDED BY OWNER; CONFIRM SIZES PRIOR TO FRAMING EXTERIOR WALLS
7. ALL EXTERIOR WINDOWS TO BE DOUBLE PANE W/ LOW-E COATING
8. ALTHOUGH STORAGE OCCUPANCIES DO NOT REQUIRE IT, THERMAL INSULATION SHALL BE INSTALLED AS NOTED ON THE DRAWINGS



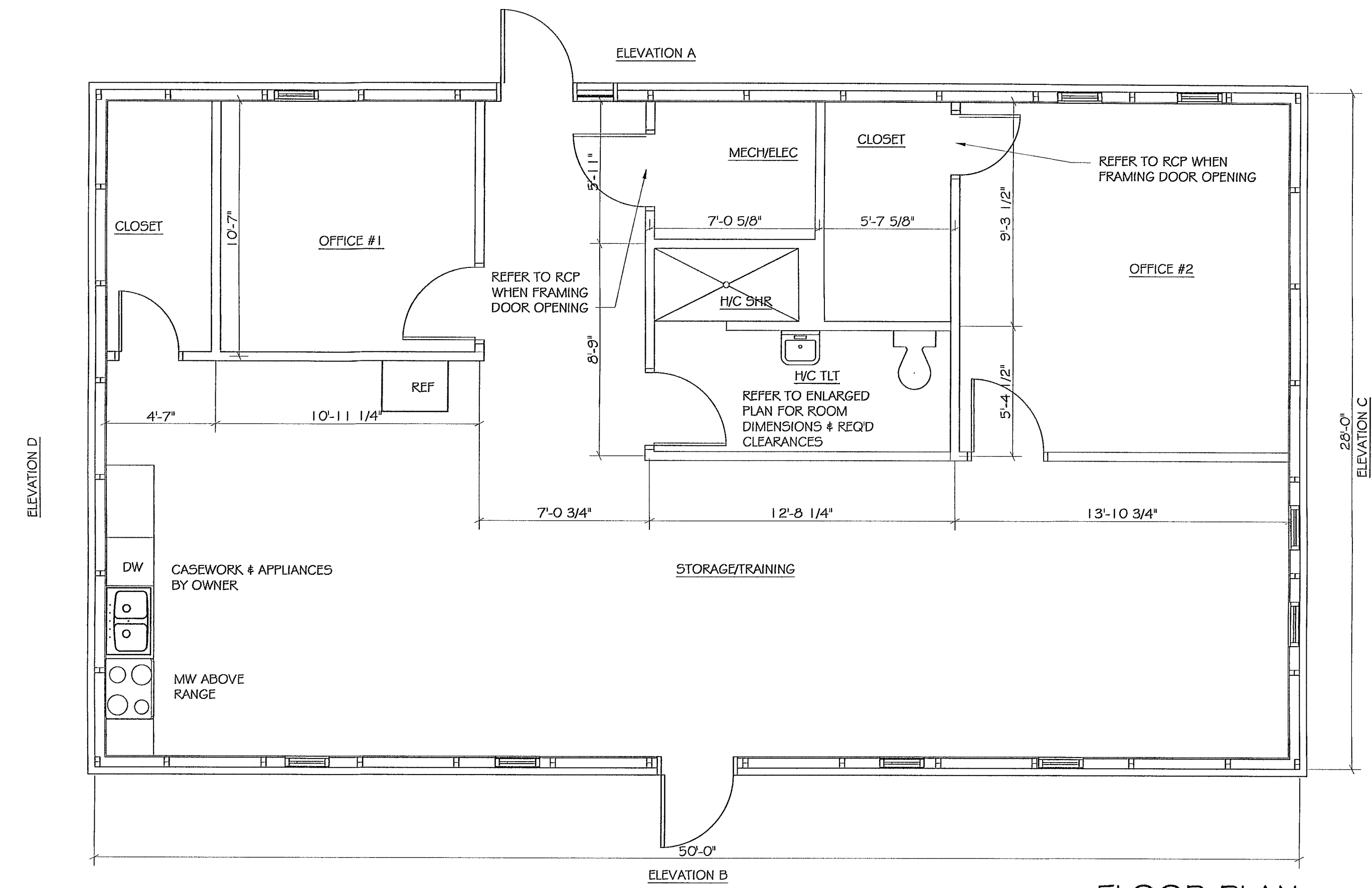
H/C TOILET/SHOWER PLAN

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



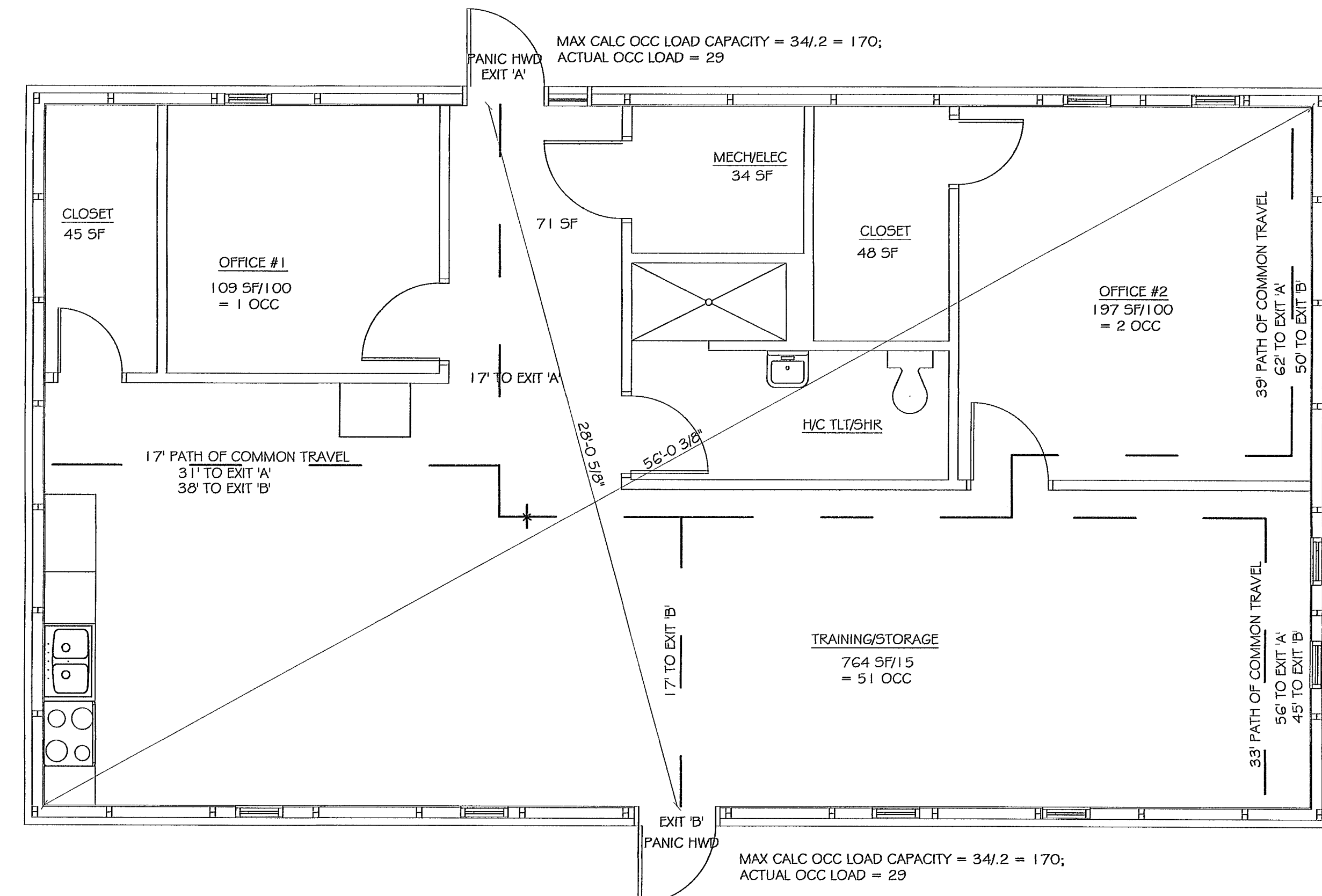
REFLECTED CEILING PLAN

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



FLOOR PLAN

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



LIFE SAFETY PLAN

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

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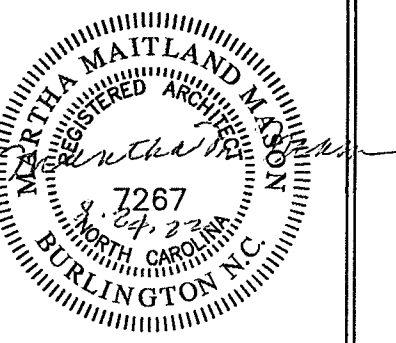
GROOMS EQUIPMENT

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Graham, NC 27253

GROOMS EQUIPMENT  
TRAINING BUILDING

Graham, North Carolina

DRAWING NAME:  
LS, FLOOR, RC PLANS  
H/C TOILET/SHR PLAN



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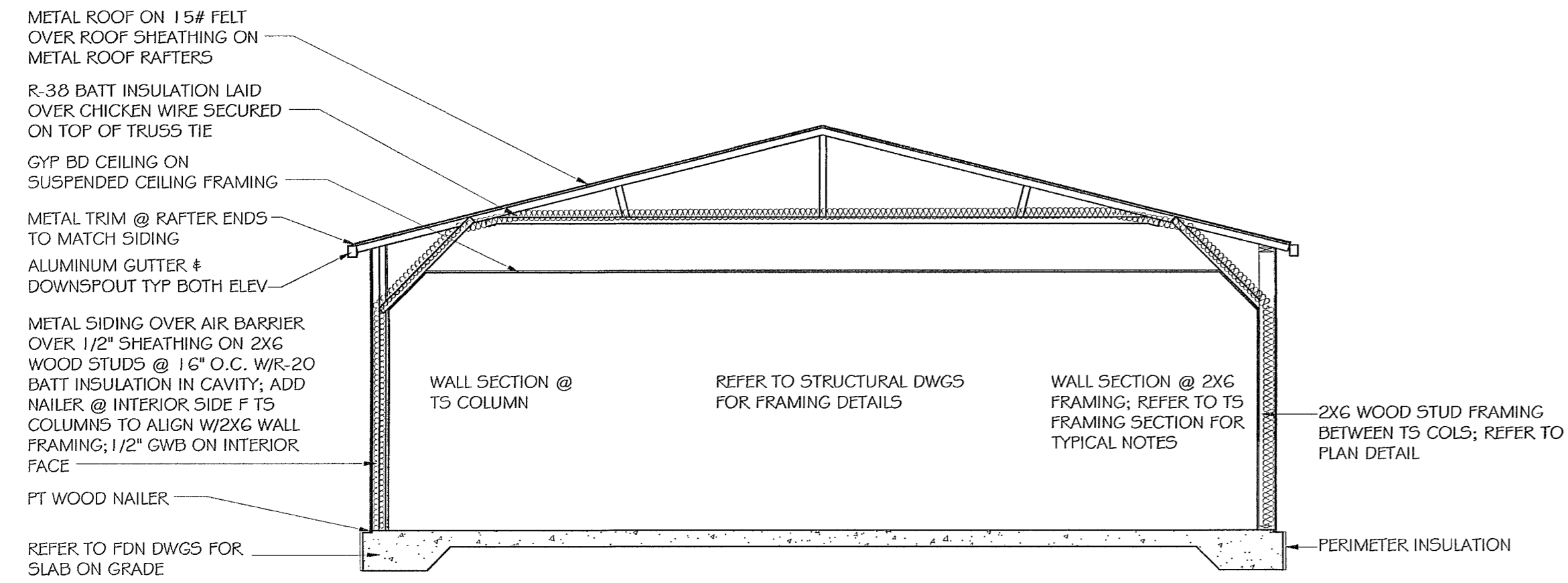
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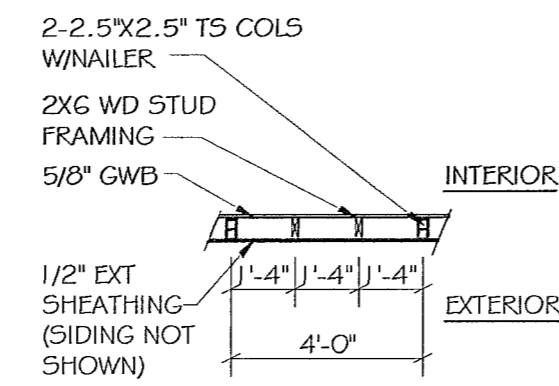
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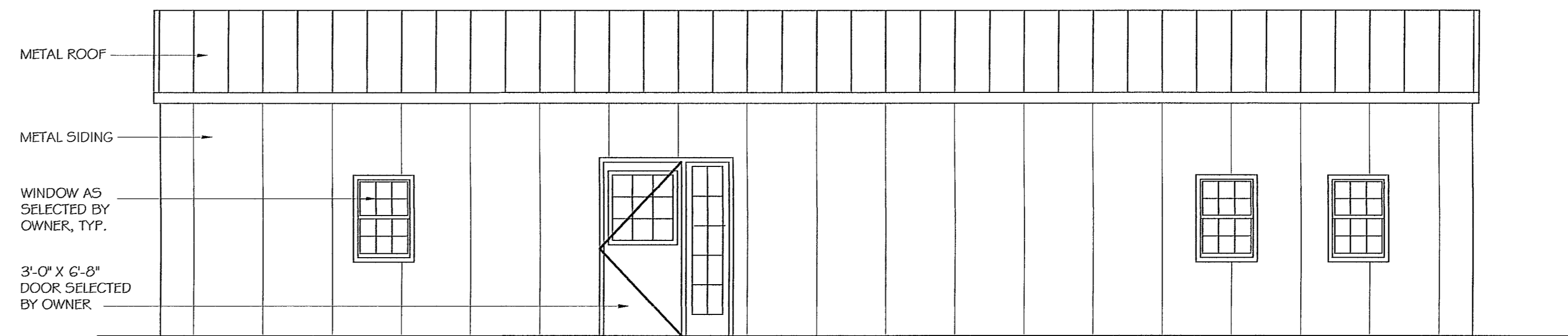
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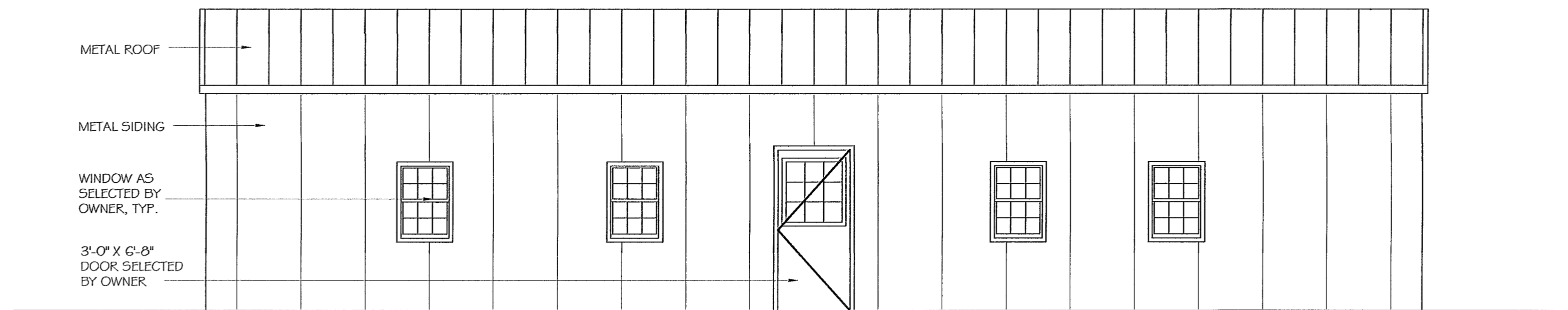
**WALL SECTION**  
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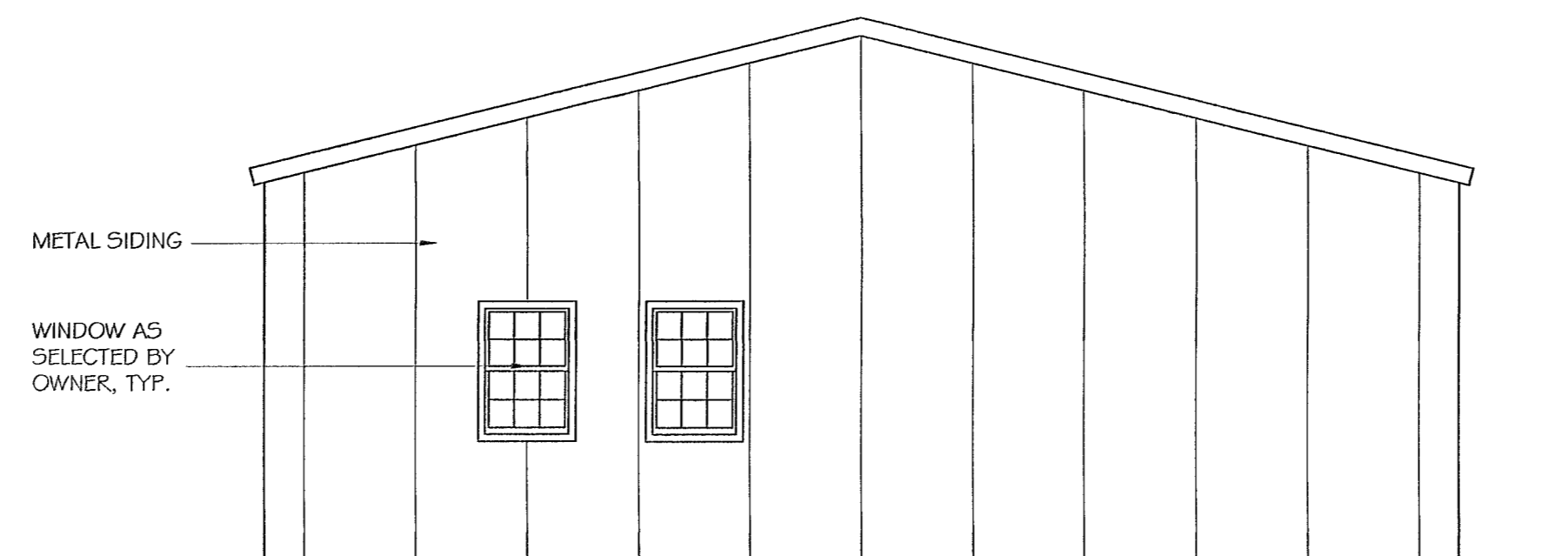
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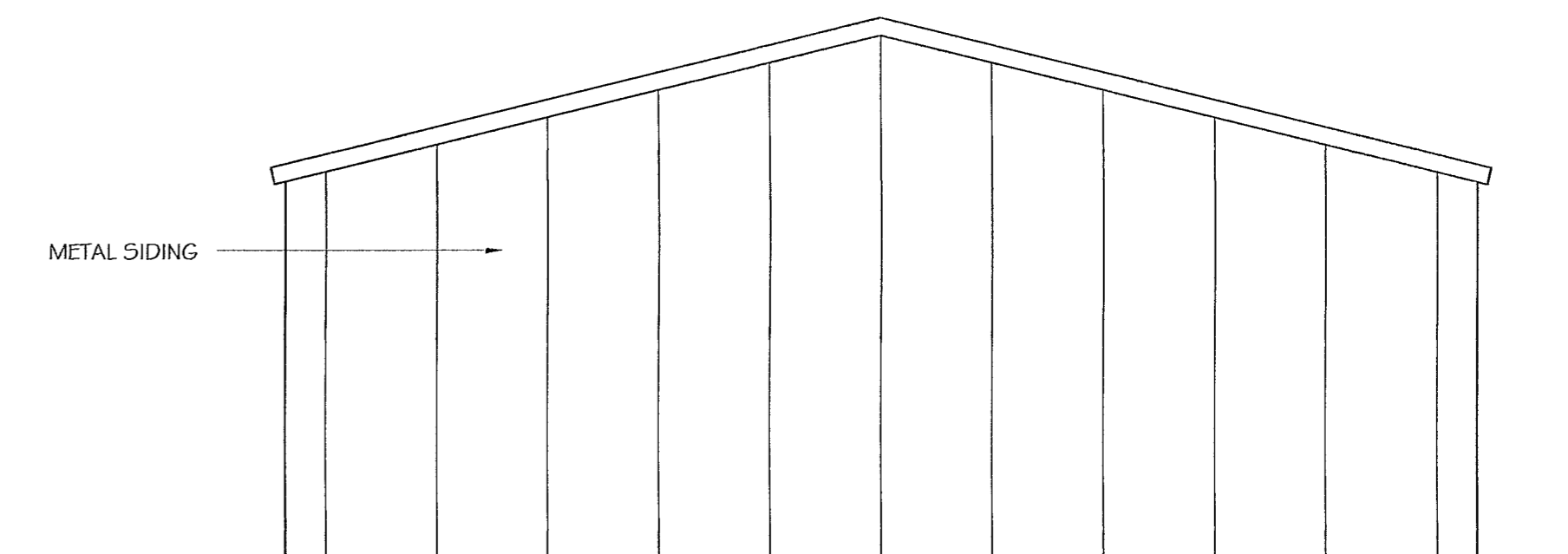
**ELEVATION A**  
SCALE: 1/4" = 1'-0"



**ELEVATION B**  
SCALE: 1/4" = 1'-0"



**ELEVATION C**  
SCALE: 1/4" = 1'-0"



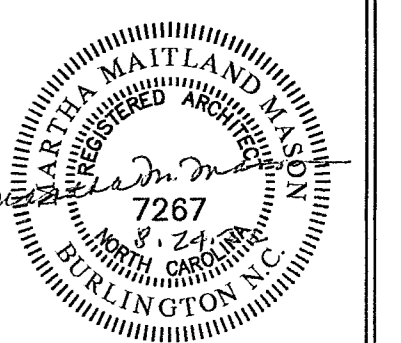
**ELEVATION D**  
SCALE: 1/4" = 1'-0"

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Graham, NC 27255

**GROOMS EQUIPMENT  
TRAINING BUILDING**  
Graham, North Carolina

DRAWING NAME  
ELEVATIONS, WALL  
SECTION & DETAIL



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