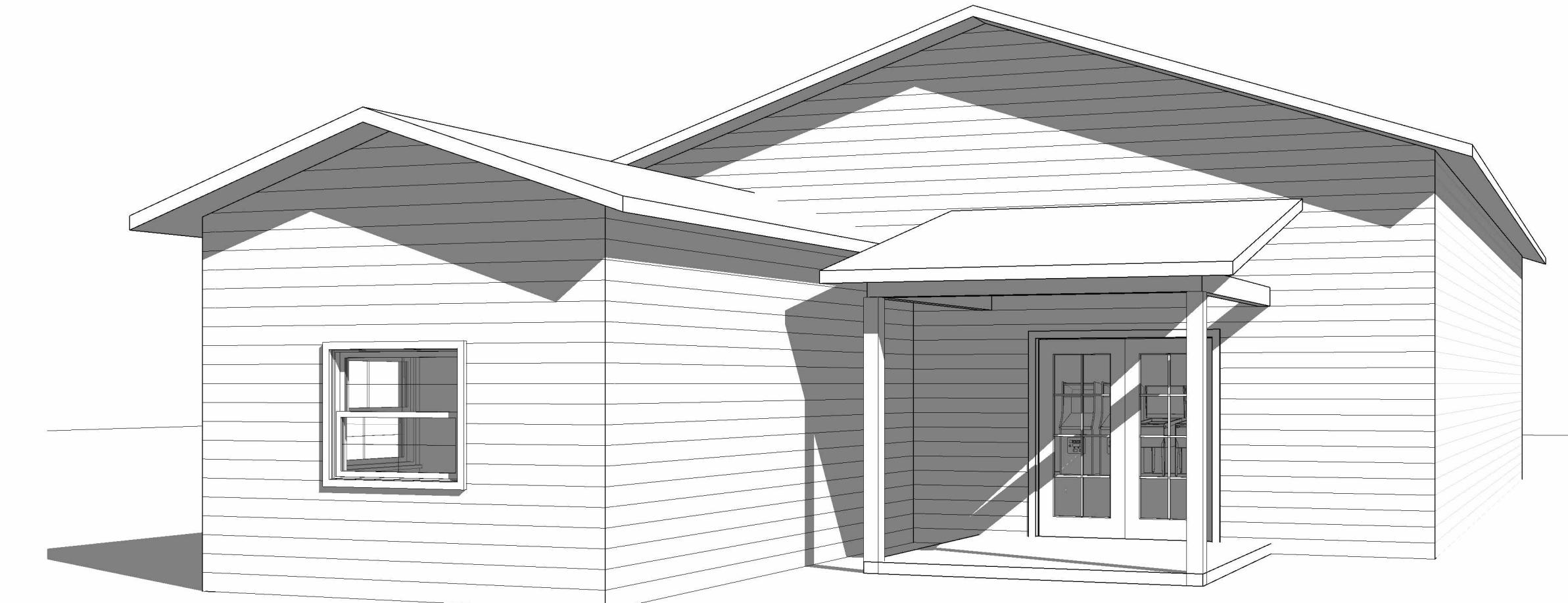
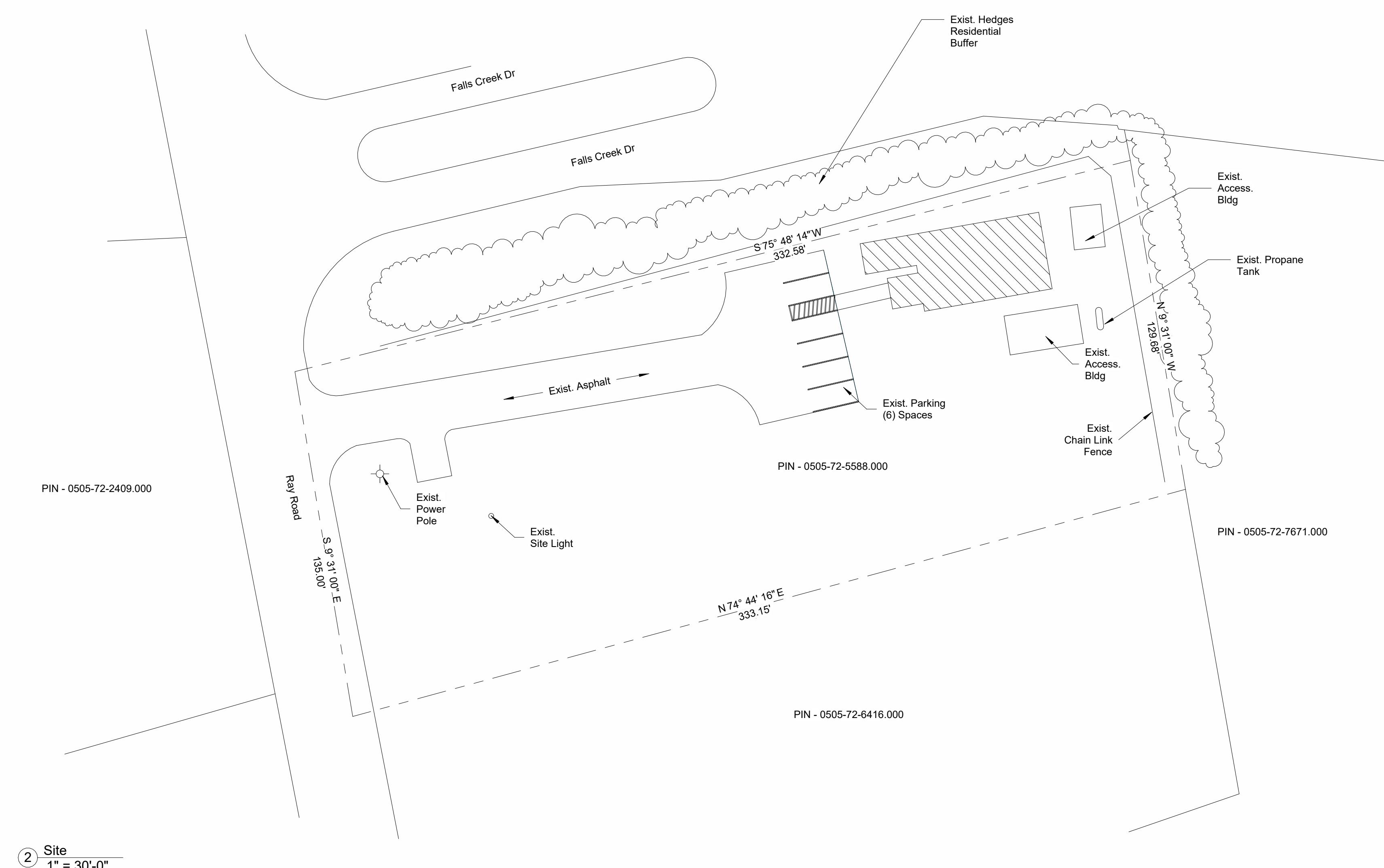


PROPOSED NEW  
TENANT SPACE UPFIT  
4318 RAY RD  
SPRING LAKE, NC 28390



**SHEET NUMBERING SYSTEM**

- A-0.0 COVER SHEET/SITE PLAN
- A-1.0 APPENDIX B
- A-2.0 FLOOR PLAN & LIFE SAFETY
- A-2.1 DEMOLITION PLAN & INTERIOR ELEVATIONS
- A2.2 ELEVATIONS
- P-1.0 PLUMBING PLANS
- E-1.0 ELECTRICAL LIGHTING & POWER PLAN
- M-1.0 MECHANICAL PLAN



CONSULTANTS

Architect  
Name:   
Lic #: 54393  
Addr: 7038 Rockridge Lane  
Fayetteville, NC, 28306  
Phone: 305-748-291  
email: [kevincoledesigns@gmail.com](mailto:kevincoledesigns@gmail.com)  
website: <https://kcadesignstudios.net>



**REVISIONS**

No.	Date	Action

PROJECT NAME	4318 Ray Road	Spring Lake NC
Enter address here		

**DRAWING NAME**

COVERSHEET

Drawn By : TP  
Checked By : TP  
Issue Date : 7/22/25  
Scale : 1" = 30'-0"  
Job No. : 0110250001

**A-0.0**

**SEAL**



NOT VALID WITHOUT SEAL

## Architect

Name: 54393  
Addr: 7038 Rockridge Lane  
Fayetteville, NC, 28306  
Phone: 305-748-2931  
email: kevincodedesigns@gmail.com  
website: https://kcdesignstudios.net

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: Ray Road Arcade  
Address: 4318 Ray Rd, Spring Lake NC Zip Code 28390  
Owner/Authorized Agent: Luis Horton Phone # ( ) E-Mail \_\_\_\_\_  
Owned By:  City/City  Private  State  
Code Enforcement Jurisdiction:  City  County Cumberland, NC  State

CONTACT: XXXXXXXXXXXXXXXX  
DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL  
Architectural Dillet Engineering Group Gregory Dillet 054271 (501) 817-1401 gdillet@dilletengineering.com  
Civil Dillet Engineering Group Gregory Dillet 054271 (501) 817-1401 gdillet@dilletengineering.com  
Electrical Dillet Engineering Group Gregory Dillet 054271 (501) 817-1401 gdillet@dilletengineering.com  
Fire Alarm Dillet Engineering Group Gregory Dillet 054271 (501) 817-1401 gdillet@dilletengineering.com  
Plumbing Dillet Engineering Group Gregory Dillet 054271 (501) 817-1401 gdillet@dilletengineering.com  
Mechanical Dillet Engineering Group Gregory Dillet 054271 (501) 817-1401 gdillet@dilletengineering.com  
Sprinkler-Standpipe \_\_\_\_\_  
Structural \_\_\_\_\_  
Retaining Walls >5' High \_\_\_\_\_  
Other Tim Peppers Design LLC Tim Peppers (910) 644-4587 tpeppers@pepdc.com

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

2018 NC BUILDING CODE:  New Building  Addition  Renovation  
 1st Time Interior Completion  
 ShellCore - Contact the local inspection jurisdiction for possible additional procedures and requirements  
 Phased Construction - ShellCore - Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING:  Prescriptive  Repair  Chapter 14  
Alteration:  Level I  Level II  Level III  
 Historic Property  Change of Use

CONSTRUCTED: (date) 1988 CURRENT OCCUPANCY(S) (Ch. 3): Business B  
RENOVATED: (date) N/A PROPOSED OCCUPANCY(S) (Ch. 3): Assembly A-3

RISK CATEGORY (Table 1604.5): Current:  I  II  III  IV  
Proposed:  I  II  III  IV

BASIC BUILDING DATA  
Construction Type:  I-A  II-A  III-A  IV  V-A  
(check all that apply)  I-B  II-B  III-B  V-B  
Sprinklers:  No  Partial  Yes  NFPA 13  NFPA 13R  NFPA 13D  
Standpipes:  No  Yes  Class I  II  III  Wet  Dry  
Fire District:  No  Yes Flood Hazard Area:  No  Yes  
Special Inspections Required:  No  Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor	1,650		
Basement			
<b>TOTAL</b>	<b>1,650</b>		

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 Deflagrate  H-3 Combust  H-4 Health  H-5 HPM  
Institutional  I-1 Condition  1  2  
 I-2 Condition  1  2  
 I-3 Condition  1  2  3  4  5  
 I-4  
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): N/A  
Incidental Uses (Table 509): N/A  
Special Uses (Chapter 4 - List Code Sections): N/A  
Special Provisions: (Chapter 5 - List Code Sections): N/A  
Mixed Occupancy:  No  Yes Separation: \_\_\_\_\_ Hr. Exception: \_\_\_\_\_

Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.  
 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.  
Actual Area of Occupancy A + Actual Area of Occupancy B Allowable Area of Occupancy B < 1  
Allowable Area of Occupancy A + N/A + ..... = N/A < 1.00

N/A + N/A + ..... = N/A &lt; 1.00

STORY NO.	DESCRIPTION AND USE(A)	BLDG AREA PER STORY(ACTUAL)	(B) TABLE 506.24 AREA(A/C)	AREA FOR FRONTEAGE INCREASE <sup>1,5</sup>	(D) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>2,3</sup>
First	Arcade	1,650 S/F	N/A	N/A	6,000
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
Total	N/A	1,650 S/F	N/A	N/A	6,000

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 = N/A (F)

b. Total Building Perimeter = N/A (P)

c. Ratio (F/P) = 1 (F/P)

d. W = Minimum width of public way = N/A (W)

e. Percent of frontage increase if  $100(F/P) - 0.25 \times W/30 = N/A (\%)$ 

2. Unlimited area applicable under conditions of Section 507.

3. Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).

4. The maximum area of open parking garages must comply with Table 406.5.4.

5. Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT		
Building Height in Feet (Table 504.3) <sup>2</sup>	ALLOWABLE	SHOWN ON PLANS
Building Height in Stories (Table 504.4) <sup>3</sup>	40	16' ± 504
	1	1 504

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

2. The maximum height of air traffic control towers must comply with Table 412.3.1.

3. The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS						
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING	REQD (W REDUCTION)	PROVIDED	DETAIL # SHEET #	DESIGN # FOR RATED ASSEMBLY
Structural Frame, including columns, girders, trusses	N/A	N/A	N/A	N/A	N/A	N/A
Bearing Walls	N/A	N/A	N/A	N/A	N/A	N/A
Exterior	N/A	N/A	N/A	N/A	N/A	N/A
North	N/A	N/A	N/A	N/A	N/A	N/A
East	N/A	N/A	N/A	N/A	N/A	N/A
West	N/A	N/A	N/A	N/A	N/A	N/A
South	N/A	N/A	N/A	N/A	N/A	N/A
Interior	N/A	N/A	N/A	N/A	N/A	N/A
Nonbearing Walls and Partitions	N/A	N/A	N/A	N/A	N/A	N/A
Exterior walls	N/A	N/A	N/A	N/A	N/A	N/A
North	N/A	N/A	N/A	N/A	N/A	N/A
East	N/A	N/A	N/A	N/A	N/A	N/A
West	N/A	N/A	N/A	N/A	N/A	N/A
South	N/A	N/A	N/A	N/A	N/A	N/A
Interior walls and partitions	N/A	N/A	N/A	N/A	N/A	N/A
Floor Construction, including supporting beams and joists	N/A	N/A	N/A	N/A	N/A	N/A
Floor Ceiling Assembly Columns Supporting Floors	N/A	N/A	N/A	N/A	N/A	N/A
Roof Construction, including supporting beams and joists	N/A	N/A	N/A	N/A	N/A	N/A
Roof Ceiling Assembly Columns Supporting Roof	N/A	N/A	N/A	N/A	N/A	N/A
Shaft Enclosures - Exit	N/A	N/A	N/A	N/A	N/A	N/A
Shaft Enclosures - Other	N/A	N/A	N/A	N/A	N/A	N/A
Corridor Separation Occupancy/Fire Barrier Separation	N/A	N/A	N/A	N/A	N/A	N/A
Party/Wall Separation	N/A	N/A	N/A	N/A	N/A	N/A
Smoke Barrier Separation	N/A	N/A	N/A	N/A	N/A	N/A
Smoke Partition	N/A	N/A	N/A	N/A	N/A	N/A
Tenant/Dwelling Unit/ Sleeping Unit Separation	N/A	N/A	N/A	N/A	N/A	N/A
Incidental Use Separation	N/A	N/A	N/A	N/A	N/A	N/A

\*Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

LIFE SAFETY SYSTEM REQUIREMENTS						
Emergency Lighting:	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes				
Exit Signs:	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes				
Fire Alarm:	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes				
Smoke Detection Systems:	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes				
Carbon Monoxide Detection:	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes				

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

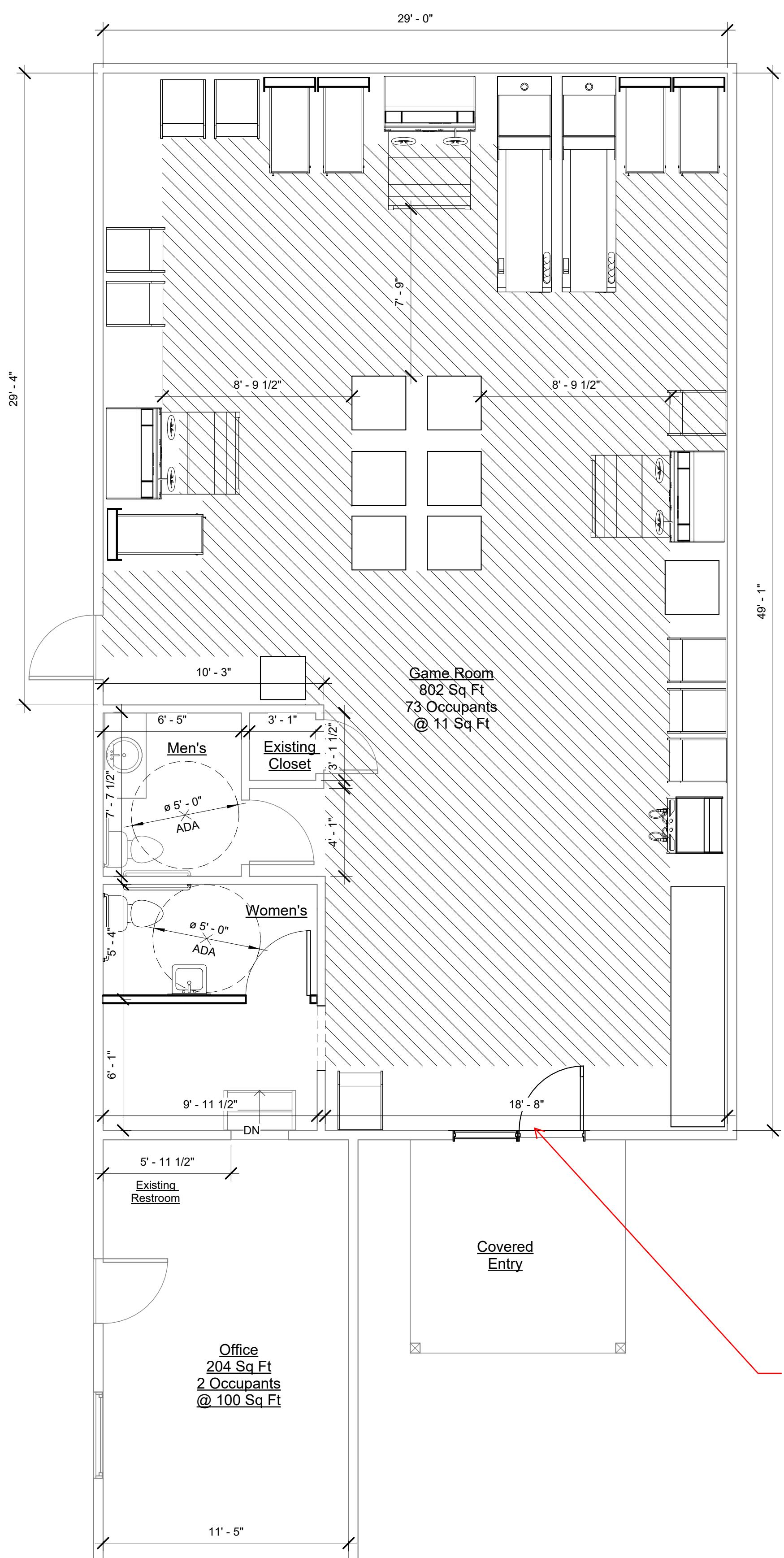
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



SEE ALL NOTES THIS PAGE



## Floor Plan Notes:

- All structural information shown for reference purposes only. Contractor shall have licensed structural engineer review and design all structural elements such as all framing walls, beams, connections, headers, joists and rafter.
- All dimensions are from center line of stud to face of exterior stud unless noted otherwise.
- Window sizes indicated on plans are noted by approximate rough opening size. Refer to plans and exterior elevations for window types.
- Coordinate location of utility meters with site plan and locate away from public view visual impact shall be minimized, i.e. mount as low as possible.
- Do not scale drawings. Follow dimensions only.
- Contractor shall field verify all cabinet dimensions before fabrication.
- All glass located within 18" of floor, 12" of a door or located within 60" of floor at bathtubs, whirlpools, showers, saunas, steam rooms or hot tubs shall be tempered.
- All exposed insulation shall have a flame spread rating of less than 25 and a smoke density rating of less than 450.
- Provide combustion air vents, with screen and back damper, for fireplaces, wood stoves and any appliance with an open flame.
- Bathrooms and utility rooms shall be vented to the outside with a minimum of a 90 cfm fan. Range hoods shall also be vented to outside.
- Attic HVAC units shall be located within 20'-0" of its service opening. Return air grilles shall not be located within 10'-0" of a gas fired appliance.
- All walls and ceilings in storage areas to have 5/8" Type-X gypsum board, with 1-hour fire rating.
- All interior walls shall be covered with 1/2" gypsum board, with metal corner reinforcing, tape float and sand. (3 coats) use 5/8" gypsum board on ceilings when supporting members are 24" O.C. or greater. Use 1/2" gypsum board on ceiling members less than 24" O.C.
- All bath and toilet area walls and ceiling shall have water-resistant gypsum board or FRP.

## GENERAL CONSTRUCTION NOTES:

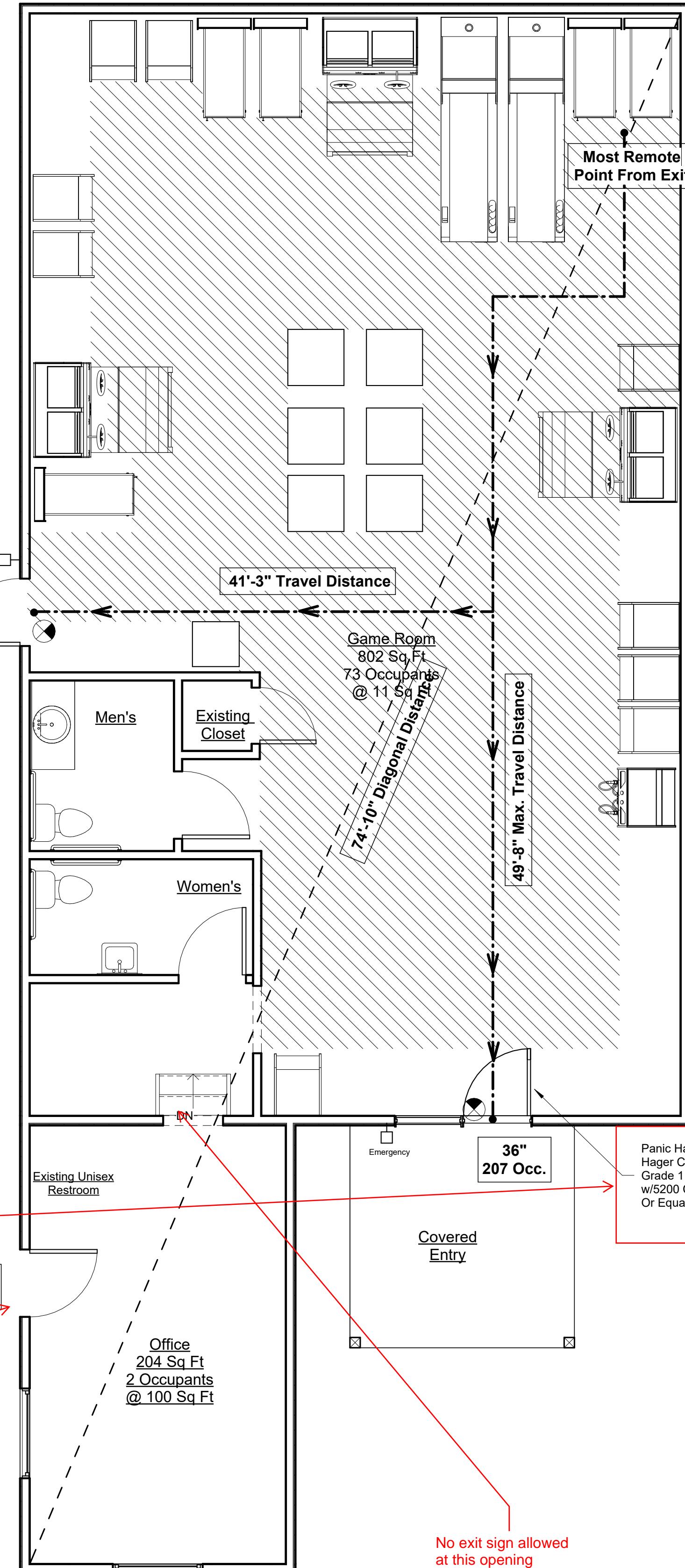
- Design Loads: Local
- Materials
  - Brick
    - Face Brick Standard: ASTM C216-84, Grade SW.
    - Brick type and color to match existing.
    - Do not use calcium chloride in mortar.
  - Mortar
    - ASTM C270, Type S. Mortar style and color consult owner
    - Do not use calcium chloride in mortar.
  - Brick Ties
    - ASTM A92 steel wire, hot dip galvanized after fabrication to ASTM A 153/A 153M, Class B
  - Insulation
    - ASTM C665; pre-formed glass fiber batt (R-19)
  - Wood Framing
    - No wood framing shall be used for partition wall framing
  - Waterproofing
    - #15 asphalt felt
  - Roof Shingles
    - Match existing
- Masonry
  - Install mortar in accordance with premix mortar instructions or in accordance with ASTM C780.
  - Clean mortar off exposed finished surfaces immediately following placement.
  - Comply with applicable code requirements for masonry construction and guidelines outlined by the Brick Institute of America.
  - Provide brick ties.
  - Cut masonry units with motor-driven saws to provide clean, sharp, unchipped edges.
  - Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Place through-wall flashing on sloping bed of mortar and cover with mortar. Seal penetrations in flashing with adhesive/sealant/tape as recommended by flashing manufacturer before covering with mortar.
  - Install weep holes in the head joints in exterior wythes of the first course of masonry immediately above embedded flashings as follows:
    - Keep head joints free and clear of mortar.
    - Space weep holes 24 inches o.c.
  - W. Weep Holes:
    - After wall construction is complete, clean brick with a non-acidic solution recommended by masonry unit manufacturer.
- Insulation
  - Verify that adjacent materials and insulation materials are dry.
  - Install insulation per manufacturer's instructions.
  - C. Tape seal tears or cuts in vapor retarder.
- Wall Framing
  - All wall studs shall be metal studs according to sizes designated on drawing.
- Miscellaneous
  - The contractor is responsible for properly guying and bracing the structure to resist live, dead, wind and construction loads during construction.
  - Verify all existing building dimensions, elevations and details with the field conditions.

Per conversation with Mr. Horton, this door to be moved to obtain at least 37 feet separation between exits.

Both exits to have panic hardware

This door to remain as is.

Garage door shall be removed or mechanically secured so it cannot be closed



2 Life Safety Plan  
1/4" = 1'-0"

## REVISIONS

No.	Date	Action

PROJECT NAME

Spring Lake NC

Enter address here

## DRAWING NAME

Floor Plan

Drawn By : TP  
Checked By : TP  
Issue Date : 08/12/19  
Scale : 1/4" = 1'-0"  
Job No. : 0110250001

A-2.0

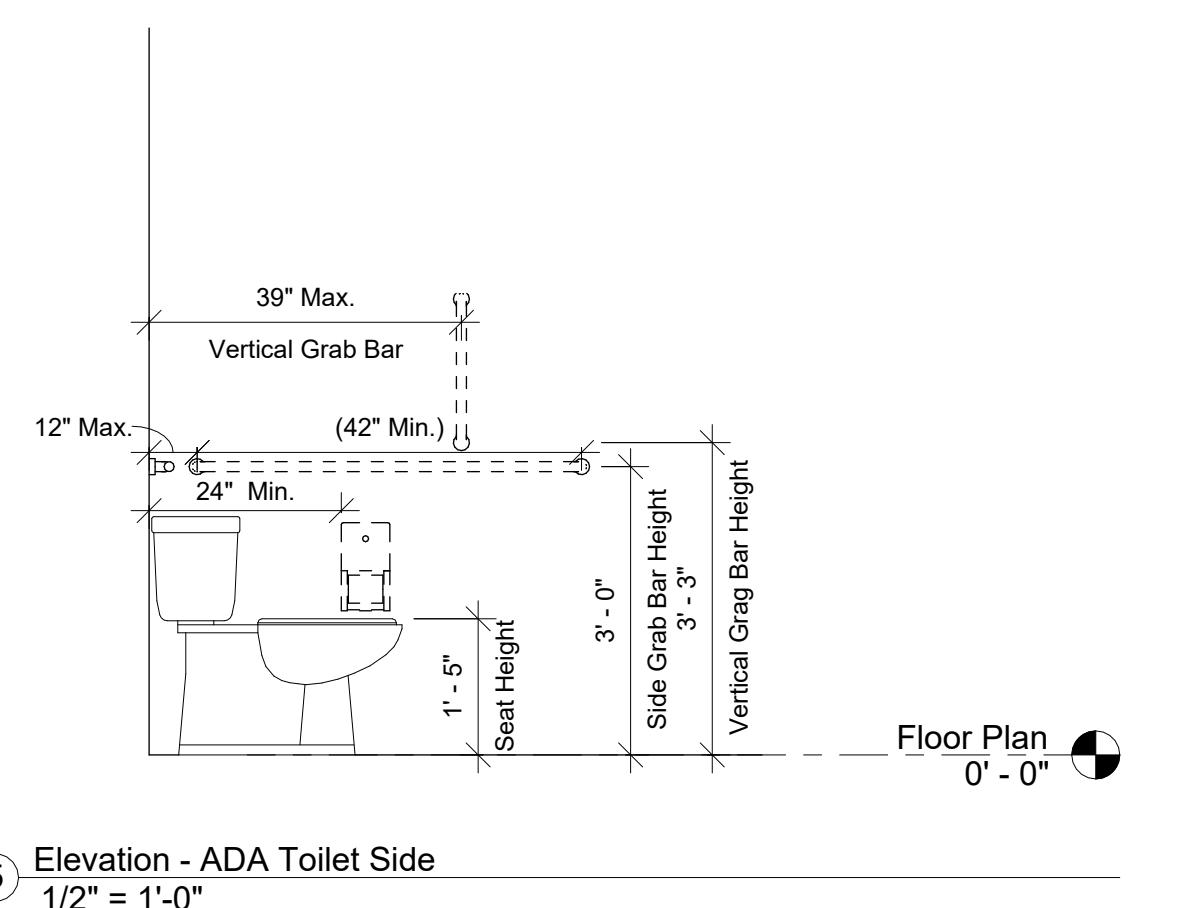
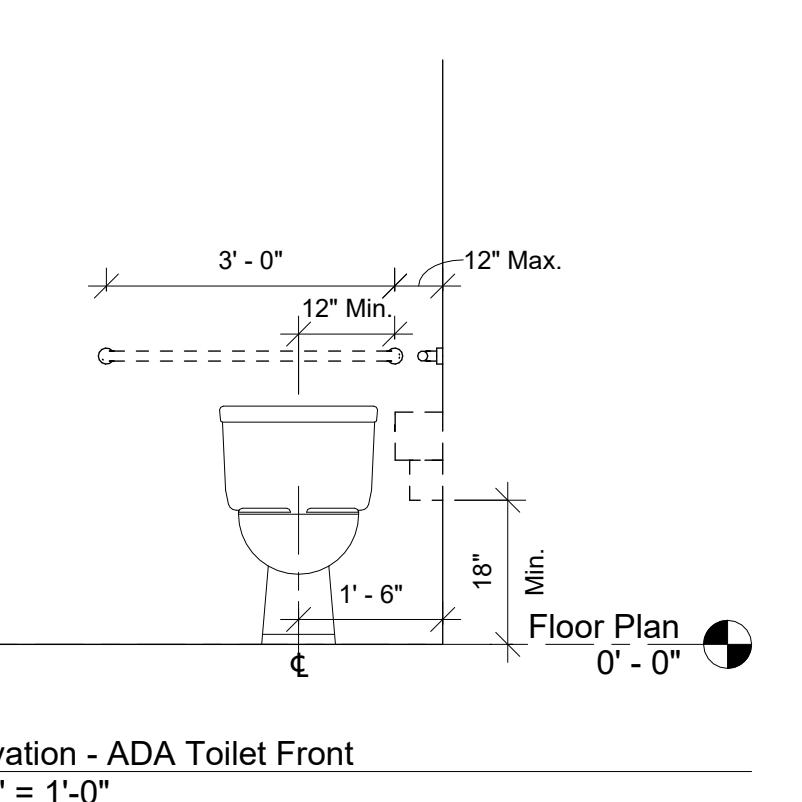
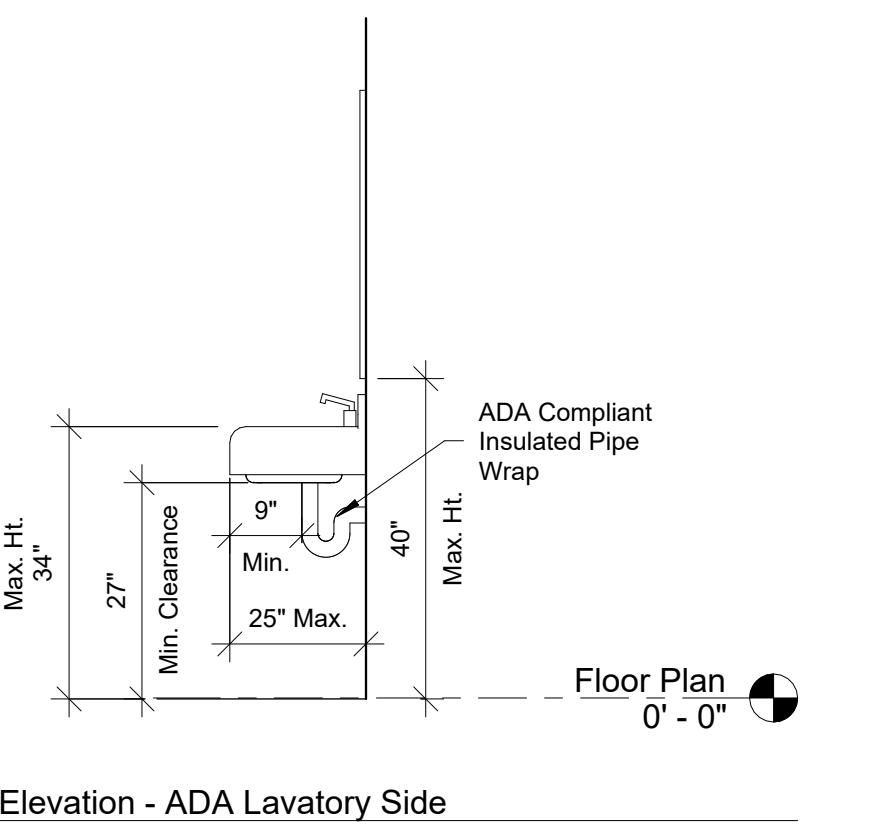
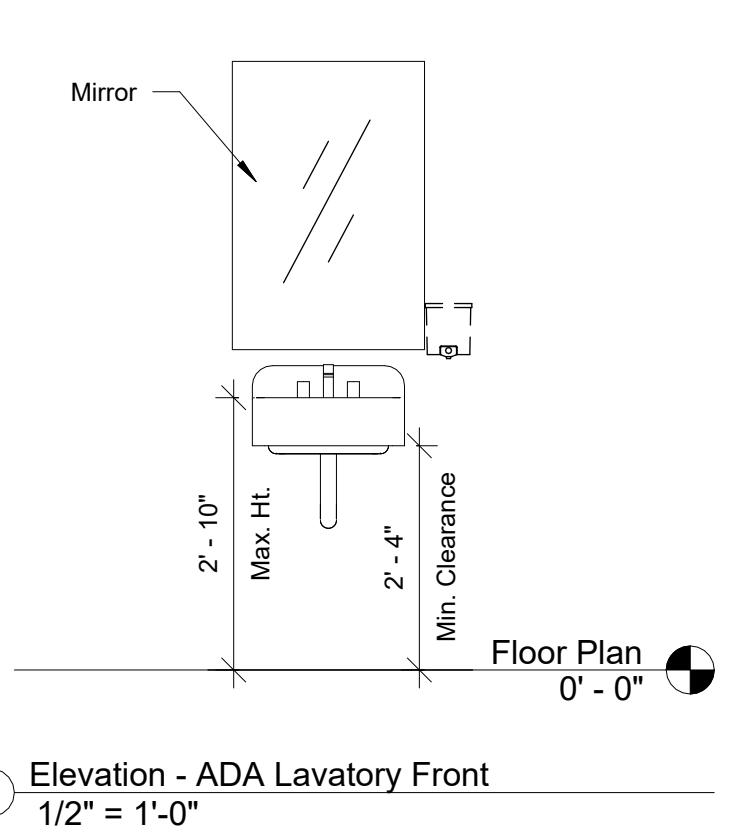
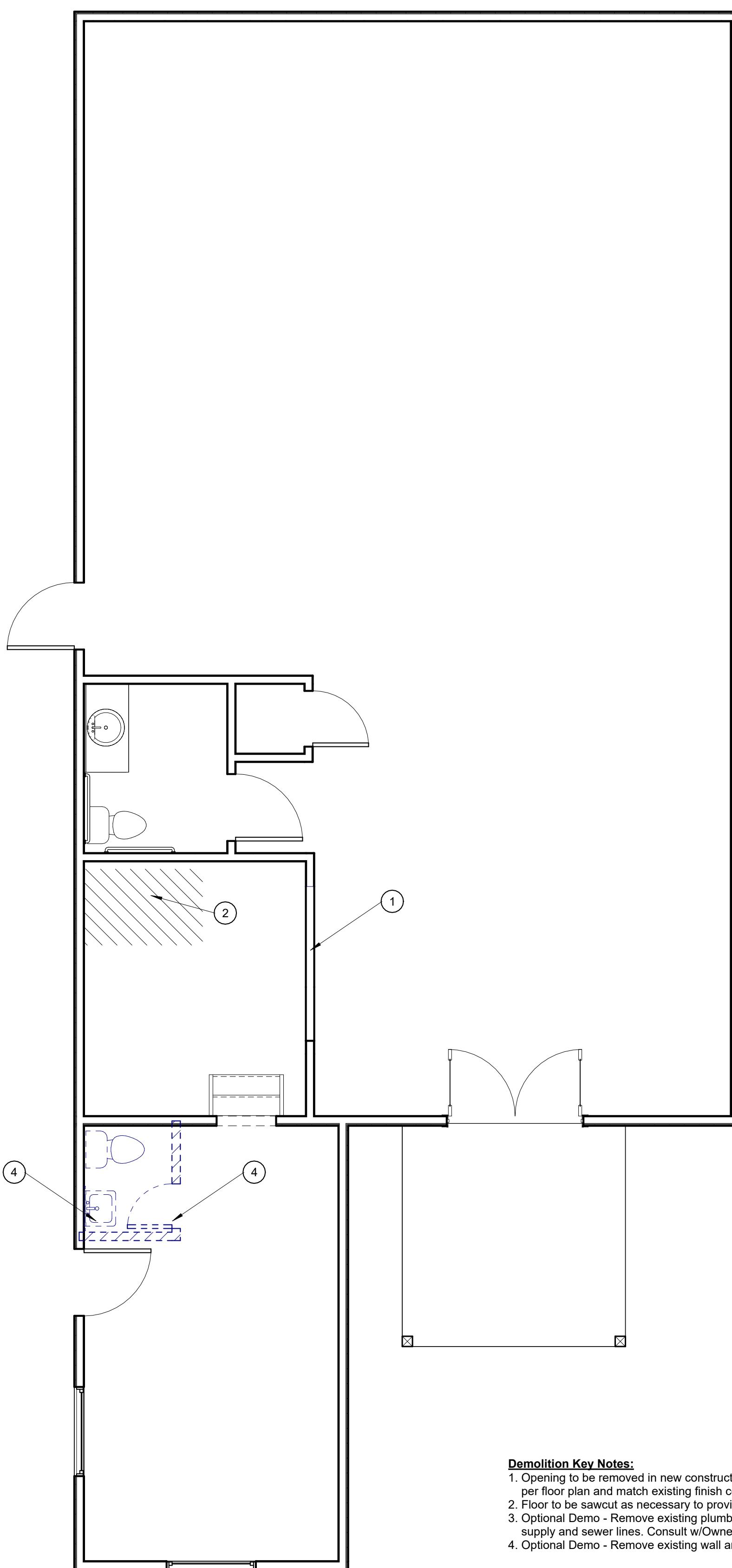
## SEAL



NOT VALID WITHOUT SEAL

## Architect

Name:  
Lic #: 54393  
Addr: 7038 Rockridge Lane  
Fayetteville, NC, 28306  
Phone: 305-748-291  
email: kevincoledesigns@gmail.com  
website: https://kcadesignstudios.net



**Demolition Key Notes:**

1. Opening to be removed in new construction. Infill with framing per floor plan and match existing finish conditions.
2. Floor to be sawcut as necessary to provide sewer to new plumbing fixtures.
3. Optional Demo - Remove existing plumbing fixtures. Abandon existing water supply and sewer lines. Consult w/Owner.
4. Optional Demo - Remove existing wall and door. Consult w/Owner.

① Demolition Plan  
1/4" = 1'-0"

## REVISIONS

No.	Date	Action

PROJECT NAME  
4318 Ray Road

Spring Lake NC

Enter address here

## DRAWING NAME

Demolition Plan

Drawn By : TP  
Checked By : TP  
Issue Date : 08/12/19  
Scale : As indicated  
Job No. : 0110250001

A-2.1

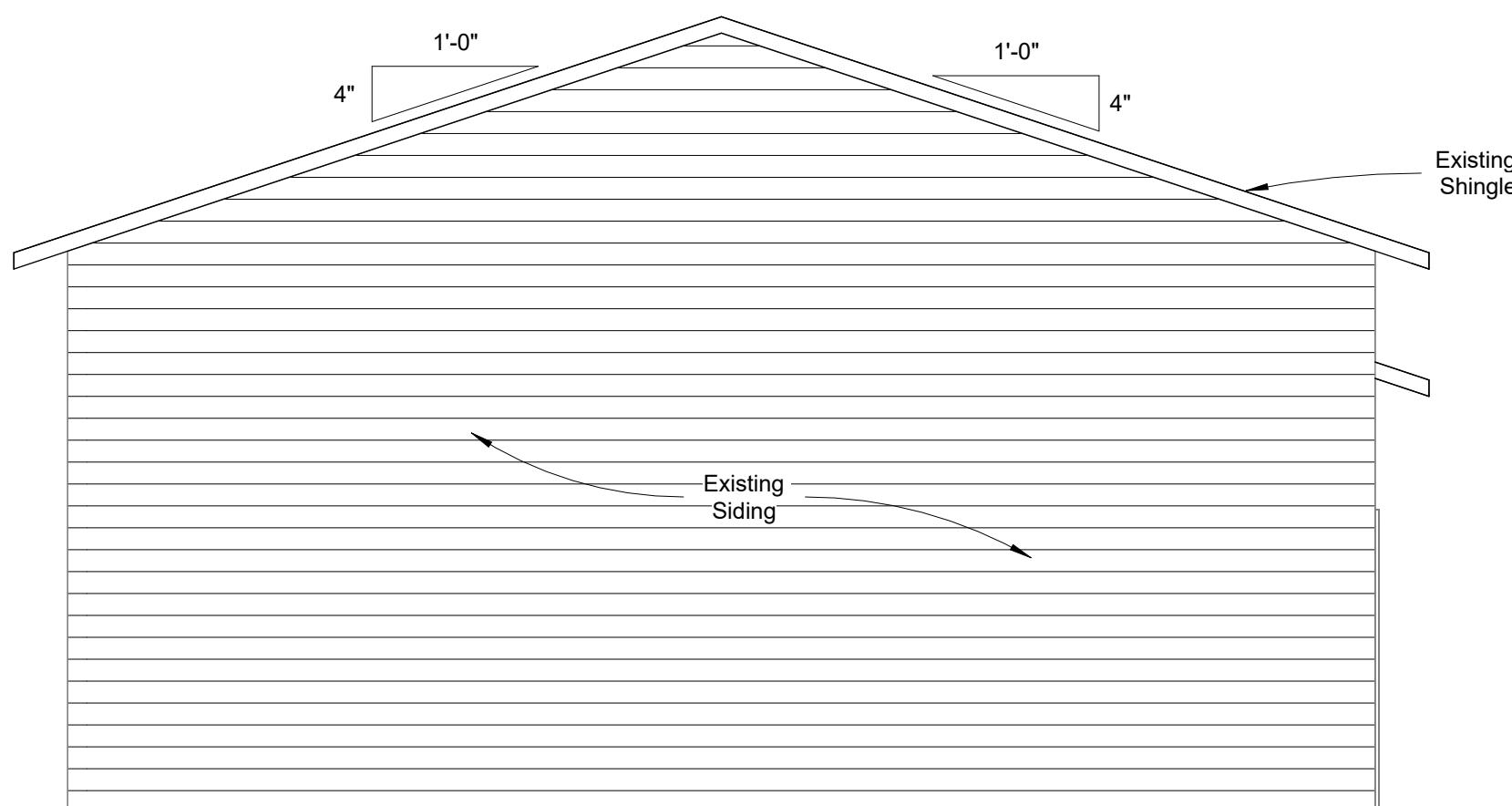
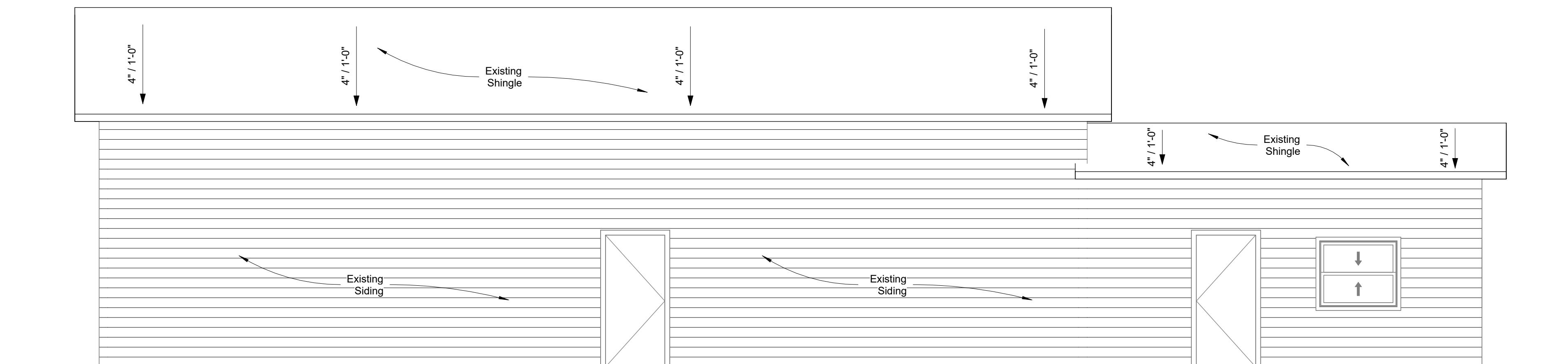
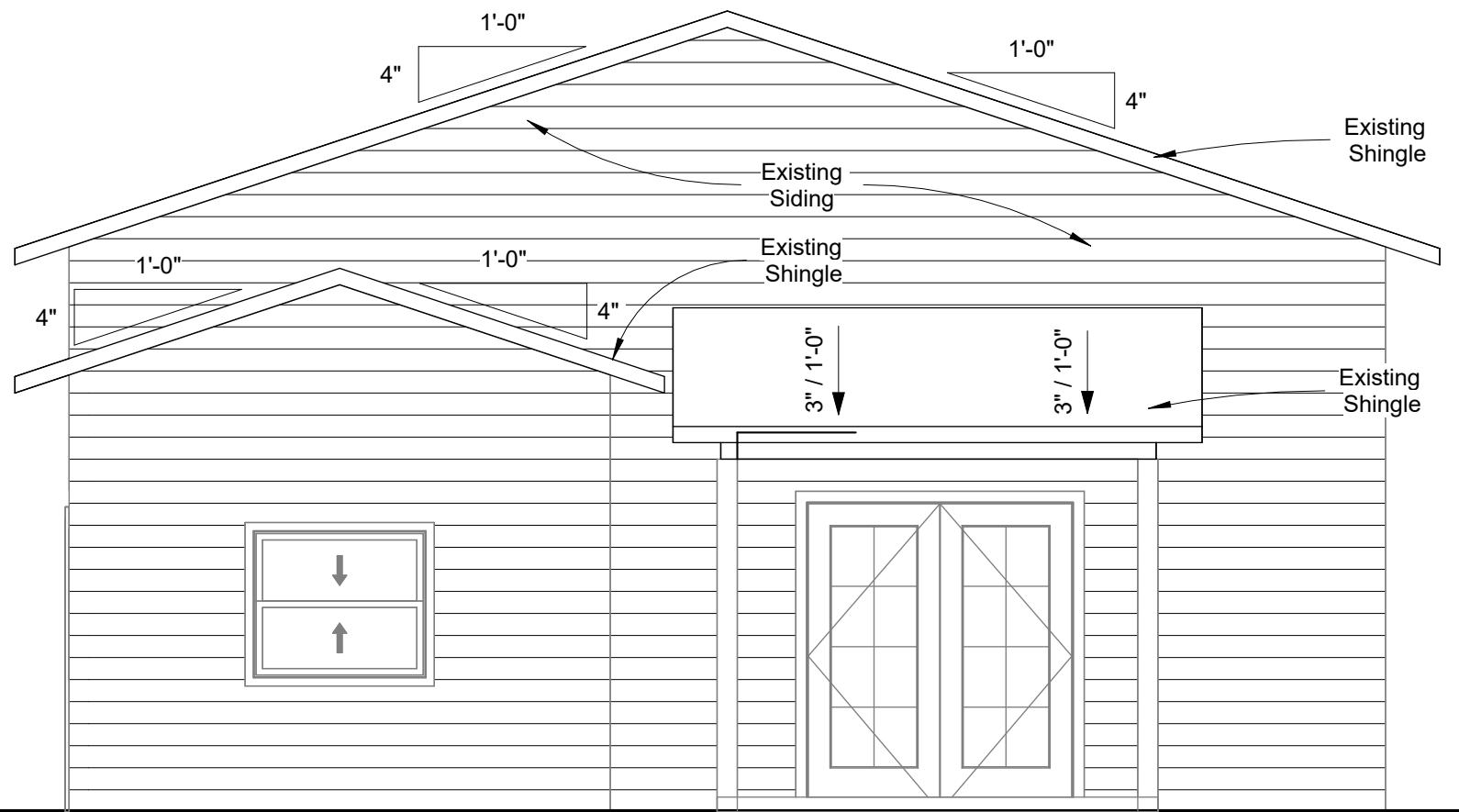
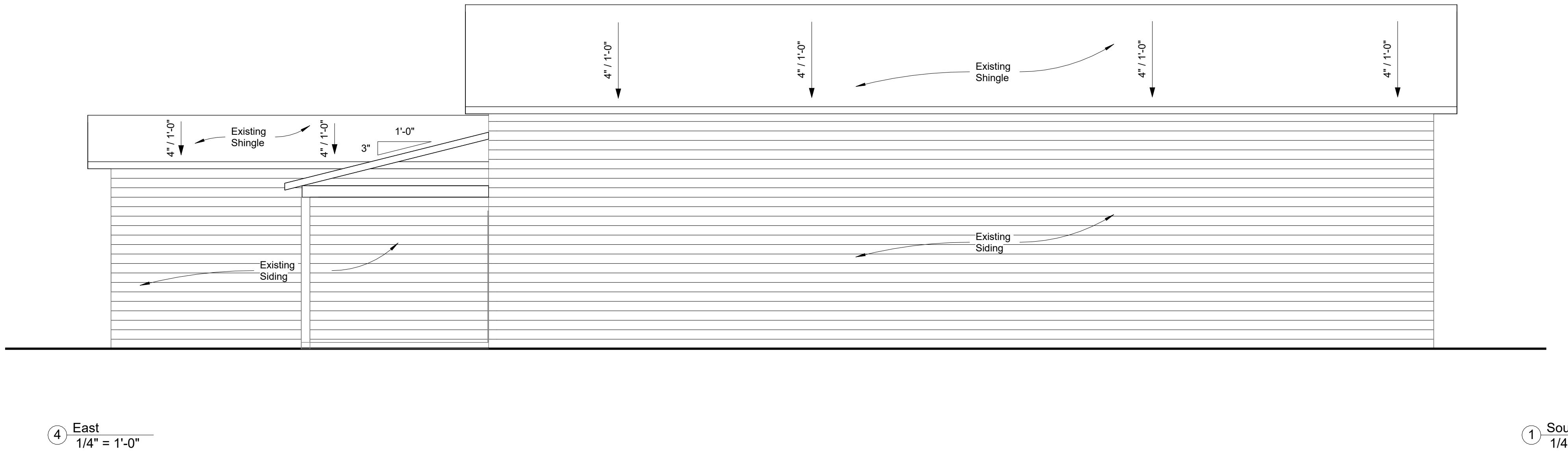
## SEAL



NOT VALID WITHOUT SEAL

## Architect

Name: \_\_\_\_\_  
 Lic #: 54393  
 Addr: 7038 Rockridge Lane  
 Fayetteville, NC, 28306  
 Phone: 305-748-291  
 email: kevincoledesigns@gmail.com  
 website: https://kcadesignstudios.net



## REVISIONS

No. Date Action

PROJECT NAME  
4318 Ray Road Spring Lake NC  
Enter address here

## DRAWING NAME

Elevations

Drawn By : TP  
Checked By : TP  
Issue Date : 08/12/19  
Scale : 1/4" = 1'-0"  
Job No. : 0110250001

**A-2.2**

## SEAL



NOT VALID WITHOUT SEAL



## Architect

Name: **Kevin Cole**  
 Lic #: 54393  
 Addr: 7038 Rockridge Lane  
 Fayetteville, NC, 28306  
 Phone: 305-748-291  
 email: kevincoledesigns@gmail.com  
 website: https://kcadesignstudios.net



## REVISIONS

No.	Date	Action

PROJECT NAME

Spring Lake NC

Enter address here

## DRAWING NAME

Electrical

Drawn By : Author  
 Checked By : Checker  
 Issue Date : 02/28/20  
 Scale : As indicated  
 Job No. : 0110250001

**E-1.0**

## SEAL



NOT VALID WITHOUT SEAL



## Scope of Work: Electrical

Electrical work consists of the addition of new receptacles using existing circuits to power new game equipment for proposed gaming area. Existing circuits extended to new locations and the existing electrical panel is loaded as shown in panel schedule. New electrical work shall consist of the extension of the existing bathroom lighting circuit to serve new light and exhaust fan in new women's restroom. All other existing electrical to remain in place and in use.

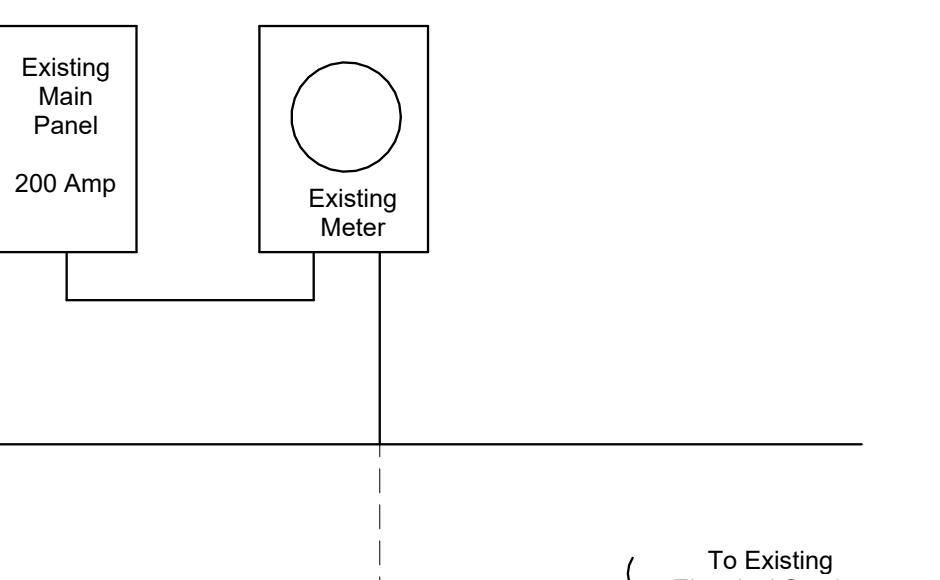
② Power Plan  
3/16" = 1'-0"

EXISTING PANEL WITH NEW BREAKERS		PHASE 1 WIRE 3 VOLTS 120/240 MAIN 200 MCB																
U.L. SERVICE ENTRANCE LABEL		TYPE NOD, MOUNTING RECESSED ENCLOSURE NEMA 1																
(KVA)		SHORT CKT. RATING 10,000 RMS SYM.																
		GROUND TERMINAL BAR <input checked="" type="checkbox"/> NEUTRAL TERMINAL BAR <input type="checkbox"/>																
PHASE	LOADING	DESCRIPTION	CKT. TYPE	WIRE SIZE	CKT. BKR. TRIP	CKT. BKR.	A	B	CKT. BKR.	CKT. BKR. TRIP	WIRE SIZE	CKT. TYPE	DESCRIPTION	PHASE	LOADING	A	B	
A	B																	

0.80 Receptacles - Games E #12 20/1 1  
 0.80 Receptacles - Games E #12 20/1 3  
 0.80 Receptacles - Games E #12 20/1 5  
 0.80 Receptacles - Games E #12 20/1 7  
 0.54 Receptacles E #12 20/1 9  
 0.54 Receptacles E #12 20/1 11  
 1.80 Water Heater E #10 30/2 13  
 1.80 Heat E #10 40/2 17  
 6.20 SPARE 21  
 10.14 10.14 SUB-TOTAL (VA) SUB-TOTAL (VA) 11.30 12.10

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

TOTAL CONNECTED LOAD = 43.68 KVA AMPS = 182.0  
 TOTAL OF 22 SPACES

① Lighting Plan  
3/16" = 1'-0"③ Electrical Riser Diagram  
12" = 1'-0"

## Architect

Name:  54393  
Lic #:  7038 Rockridge Lane  
Addr:  Fayetteville, NC, 28306  
Phone:  305-748-7291  
email:  kevincoledesigns@gmail.com  
website:  https://kcadesignstudios.net



## Scope Of Work: Mechanical

This proposed project includes the installation of new bathroom exhaust fan. All existing mechanical systems, ductwork, and controls to remain in place and in use.

## EXHAUST FAN SCHEDULE

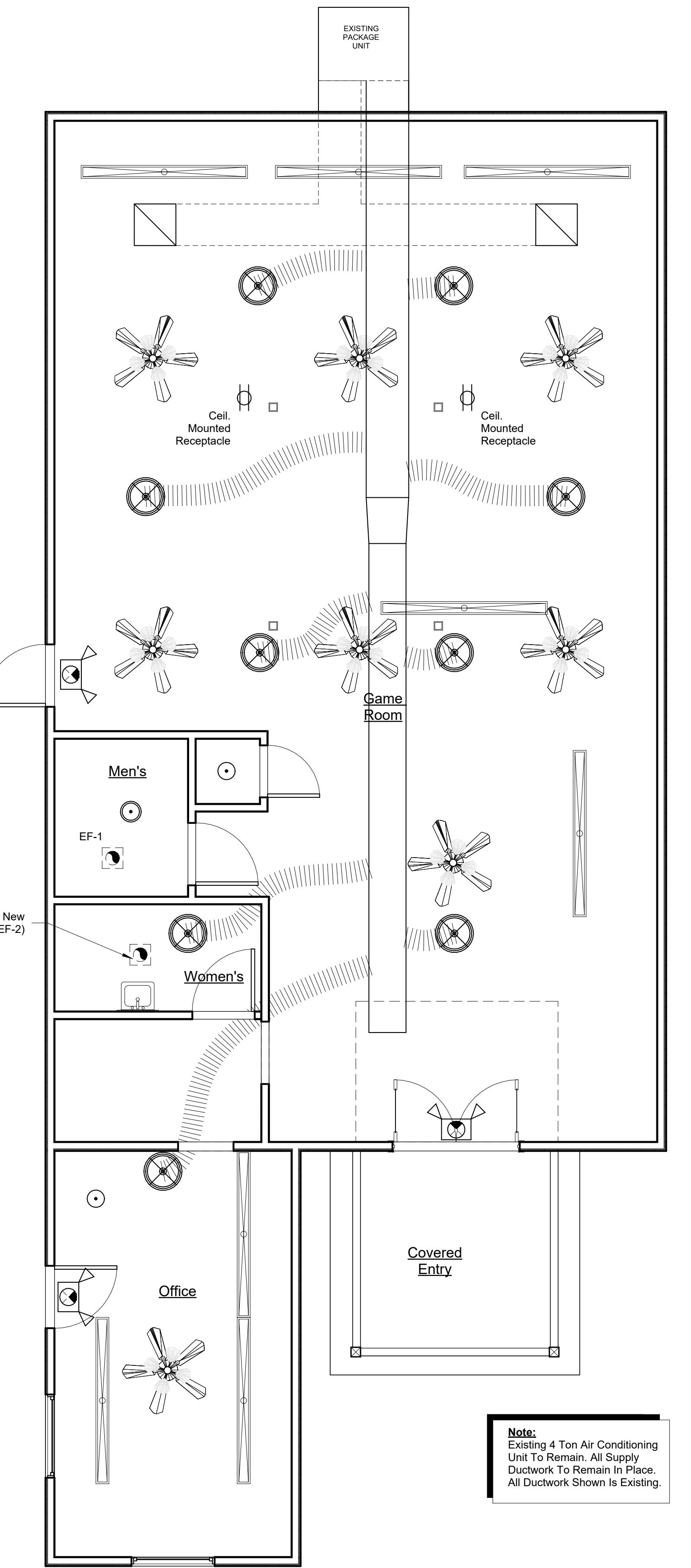
MARK	LOCATION	SERVICE	CFM	S.P.	WATTS	RPM	VOLT	PHASE	DRIVE	MANUFACTURER	MODEL	NOTES
EF-1	CEILING	EXHAUST	100	0.625"	16.4	1050	120	1	DIRECT	EXISTING		
EF-2	CEILING	EXHAUST	100	0.625"	16.4	1050	120	1	DIRECT	GREENHECK SP-A200-QD Or Equal 68-267 CFM		① ② ③

① ROOF CAP WITH BIRDSCREEN  
② MESH FILTER  
③ BACKDRAFT DAMPER  
④ WIRED FOR CONTINUOUS OPERATION DURING NORMAL HOURS

## OUTSIDE AIR CALCULATION

OCCUPANCY TYPE:	BUSINESS B	
ACTUAL NUMBER OF OCCUPANTS (P <sub>z</sub> )	75 PEOPLE	
NET SQUARE FOOTAGE OF HEATED BUILDING: (A <sub>z</sub> )	1650 SQ/FT	
BUILDING EXHAUST REQUIREMENTS		
EXHAUST REQUIRED	(1650 * 0.06)	
TOILET EXHAUST REQUIRED (3 FLUSHING FIXTURES * 150 CFM EACH)	450 CFM	
TOTAL BUILDING EXHAUST AIR REQUIRED	549 CFM	
BUILDING VENTILATION REQUIREMENTS		
PEOPLE * 7.5 CFM	TABLE 4.3: 2018 NC MECH CODE	
75 PEOPLE * 7.5 CFM/PERSON	563 CFM	
OUTSIDE AIR SUB-TOTAL	1112 CFM	
OUTSIDE AIR REQUIRED = 1112 / 1.0 (EFFECTIVENESS)	1112 CFM	
BUILDING EXHAUST PROVIDED		
EF-1	EF-2	
100 CFM	100 CFM	200 CFM
OUTSIDE AIR PROVIDED		
Existing 4 TON UNIT		TOTAL 1200 CFM

② Outside Air Calculation  
1/4" = 1'-0"



① Mechanical Plan  
1/4" = 1'-0"

## REVISIONS

No.	Date	Action

PROJECT NAME  
4318 Ray Road  
Spring Lake NC

Enter address here

## DRAWING NAME

Mechanical Plan

Drawn By : TP  
Checked By : TP  
Issue Date : 12/03/20  
Scale : 1/4" = 1'-0"  
Job No. : 0110250001

M-1.0

## SEAL



NOT VALID WITHOUT SEAL