



**BRIAN TAYLOR**  
STATE FIRE MARSHAL

March 14, 2025

Mr. Frank Gallucci, AIA  
FGA Associates PLLC  
11 South Main Street  
Wendell, NC 27591

**RE: 2018 NCEBC Section 505 Alteration – Level 3 (Reconstruction)**

Mr. Gallucci:

This letter is in response to the request for a formal interpretation from the Office of State Fire Marshal (“OSFM”) dated 3/25/24 and received by OSFM the same day. Moreover, this formal response letter serves to complete and finalize the documentation. Thank you for your patience in waiting for this formal interpretation. Our office handled other commitments over the last several months, including disaster recovery efforts in WNC. Requests are addressed below in the order in which they are posed.

Stated in relevant parts:

“Clarification on intent and verbiage of Section 904.1.1 as it relates to an Alteration Level 3. If the project is phased out over a period greater than 12 months, does the work normally required by this section no longer apply because the work can meet the requirements of an Alteration Level 2. Refer to cited case study example projects in email dated March 18, 2024.

Clarification needed to ensure projects meet minimum code and life safety requirements for existing buildings for the scope of the work proposed.”

**Remarks:**

Attachment A is comprised of the request for formal interpretation as well as all supporting information submitted with the request. Code sections noted in this letter are referring to the 2018 edition of the NC Existing Building Code (NCEBC) unless otherwise noted.

**OFFICE OF STATE FIRE MARSHAL**

1202 MAIL SERVICE CENTER | RALEIGH NC 27699 -1202 | TEL 919.647.0000 | FAX 866.851.6508 | NCOSFM.GOV



**Code Analysis:**

**505.1 Scope.** Level 3 *alterations* apply where the work area exceeds 50 percent of the *building area* in any 12-month time period.

**Exception:** *Alterations* limited to displays or showrooms in Group M occupancies.

**505.2 Application.** Level 3 *alterations* shall comply with the provisions of Chapters 7 and 8 for Level 1 and 2 *alterations*, respectively, as well as the provisions of Chapter 9.

**Conclusions:**

1. Any project where the work area exceeds 50 percent of the building area and is started or completed at one-time or in phases or in multiple scopes of work within a 12-month period, the summation of the work completed is considered one project as a Level III Alteration.
2. Example #1: A project intends to have a work area that includes 60% of the building area and the work is intended to be completed in two phases. If phase 1 is started or completed within 12 months of the phase 1 permit issuance date and phase 2 is started within 12 months of the phase 1 permit issuance date, the overall project would all be a Level III Alteration in terms of the application of the 2018 NCEBC.
3. Example #2: A project intends to have a work area that includes 60% of the building area and the work is intended to be completed in two phases. If phase 1 is started or completed within 12 months of the phase 1 permit issuance date and phase 2 is started 12 months or more after the phase 1 permit issuance date, the overall project may be performed as a Level II Alteration or a Level III Alteration in terms of the application of the 2018 NCEBC.
4. If an automatic fire sprinkler system is not provided for the sample case example projects being discussed in this request for a formal interpretation, 1-hour fire-resistance rated construction is required between the mixed-use (Group B) and R-3 occupancies as per 2018 NCBC 711.2.4.3 via reference from Table 509.2 and 420.3 for walls and 2018 NCEBC 803.8 for floors.

Sincerely,

David Rittlinger, PE, LEED AP  
Division Chief – Codes & Interpretations  
North Carolina Office of State Fire Marshal

cc: Nathan Childs, NCDOJ, counsel for NC Building Code Council, [nchilds@ncdoj.gov](mailto:nchilds@ncdoj.gov)  
Nicki Shaffer, NCDOJ, counsel for NC Residential Code Council, [wshaffer@ncdoj.gov](mailto:wshaffer@ncdoj.gov)  
Pak Yip, NCOSFM, Chief Code Consultant, [pak.yip@ncdoi.gov](mailto:pak.yip@ncdoi.gov)



**ATTACHMENT A**

(see attached pdf)





**APPENDIX E  
 APPEALS  
 NORTH CAROLINA  
 BUILDING CODE COUNCIL  
 1429 Rock Quarry Road, Suite 105  
 Raleigh, North Carolina 27610  
 (919) 647-0008  
 david.rittlinger@ncdoi.gov**

GS 153A-374, GS 160A-434 | Hearing Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
 Formal Interpretation by NCDOI \_\_\_\_\_ | GS 143-140, GS 143-141  
 Appeal of Local Decision to NCDOI \_\_\_\_\_ | Appeal of Local Decision to NCBCC \_\_\_\_\_  
 Appeal of Local Decision to NCDOI \_\_\_\_\_ | Appeal of NCDOI Decision to NCBCC \_\_\_\_\_

**APPELLANT** FRANK GALLUCCI, AIA **PHONE** ( 919 ) 819 - 4635 **x** \_\_\_\_\_  
**REPRESENTING** FGA ASSOCIATES PLLC  
**ADDRESS** 11 SOUTH MAIN ST.  
**CITY** WENDELL **STATE** NC **ZIP** 27591  
**E-MAIL** FRANK@FRANKGARCHITECT.COM **FAX** ( \_\_\_\_\_ ) \_\_\_\_\_ - \_\_\_\_\_

North Carolina State Building Code, Volume 2018 NCEBC - Section 904.1.1, 420.2, 420.3, 711.2.4.3, 711.2.4.1

REQUEST ONE:       Formal Interpretation by NCDOI                      [ ] Appeal of Local Decision to NCBCC  
                            Appeal of Local Decision to NCDOI                      [ ] Appeal of NCDOI Decision to NCBCC

Type or print. Include all background information as required by the referenced General Statutes and the attached policies. Attach additional supporting information.  
 CLARIFICATION ON INTENT AND VERBIAGE OF SECTION 904.1.1 AS IT RELATES TO AN ALTERATION LEVEL 3. IF THE PROJECT IS PHASED OUT OVER A TIME PERIOD GREATER THAN 12 MONTHS, DOES THE WORK NORMALLY REQUIRED BY THIS SECTION NO LONGER APPLY BECAUSE THE WORK CAN MEET REQUIREMENTS OF AN ALTERATION LEVEL 2. REFER TO CITED CASE STUDY EXAMPLE PROJECTS IN EMAIL DATED MARCH 18, 2024

CLARIFICATION OF 1 HOUR OR 2 HOUR SEPARATION REQUIRED FOR R-3 APARTMENTS. REFER TO CITED CASE STUDY EXAMPLE PROJECTS IN EMAIL DATED MARCH 18, 2024

REASON:  
 CLARIFICATION NEEDED TO ENSURE PROJECTS MEET MINIMUM CODE AND LIFE SAFETY REQUIREMENTS FOR EXISTING BUILDINGS FOR THE SCOPE OF WORK PROPOSED.

Signature  **DATE:** 3/25/2024 **APPEAL TO NCDOI/NCBCC**  
**FORM 3/14/17**



PROJECT INFORMATION

THE BUILDING SHALL BE IN COMPLIANCE WITH THE MOST RECENT VERSION OF THE FOLLOWING NORTH CAROLINA EDITION CODES, WHERE APPLICABLE TO THE SCOPE OF WORK.

- 2018 BUILDING CODE
2018 EXISTING BUILDING CODE
2018 ENERGY CONSERVATION CODE
2018 FIRE CODE
2018 FUEL GAS CODE
2018 MECHANICAL CODE
2018 PLUMBING CODE
2018 ELECTRICAL CODE
2009 ICC/ANSI A111

SCOPE OF WORK: THIS BUILDING IS AN EXISTING 2-STORY MASONRY AND WOOD STRUCTURE. IT FUNCTIONS AS AN EXISTING 2-STORY BUSINESS (B-USE) ON THE FIRST FLOOR AND SECOND FLOORS. THE NEW WORK ENCOMPASSES AN ALTERATION ON BOTH FLOORS, WITH A PARTIAL CHANGE OF USE TO ADD (2) NEW APARTMENTS (R-3) ON THE SECOND FLOOR. THE FIRST FLOOR WILL BE ALTERED TO CREATE A FRUIT SCREEN AND POP-UP KIOSK BUSINESS, WITH NEW BATHROOMS AT THE BACK. THE SECOND FLOOR WILL BE ACCESSED VIA A NEW STAIR AT THE BACK OF THE BUILDING, TO A NEW CORRIDOR. THIS CORRIDOR WILL SERVE TO ACCESS TO THE (2) NEW APARTMENTS AT THE FRONT OF THE BUILDING, AND AS A MEANS OF EGRESS FOR THE BUSINESS TENANT ON THE SECOND FLOOR. NEW PLUMBING, MECHANICAL, AND ELECTRICAL WORK WILL BE PERFORMED THROUGHOUT. REFER TO THESE DOCUMENTS FOR DETAILS ON THE FULL SCOPE OF WORK.

CLASSIFICATION OF WORK: CHANGE OF OCCUPANCY AND ALTERATION LEVEL 3 (NCEBC CHAPTER 9 & 10) EXISTING USE: BUSINESS (B) PROPOSED USE: NON-SEPARATED MIXED USE (B) AND (R-3) CONSTRUCTION CLASSIFICATION (NCEBC 602): TYPE IIB (EXTERIOR NON-COMBUSTIBLE UNPROTECTED) - NON-SPRINKLERED

Table with 2 columns: Item, Description. Includes Building Area Calculation for Fr Fruit Screen, Pop Up Kiosk, Stair, and Grand Total.

CHANGE OF OCCUPANCY (NCEBC CHAPTER 10)

STRUCTURAL (1001) GRAVITY LOADS: BUILDINGS OR PORTIONS SUBJECT TO A CHANGE IN OCCUPANCY WHERE SUCH CHANGE IN THE NATURE OF THE OCCUPANCY RESULTS IN HIGHER UNIFORM OR CONCENTRATED LOADS BASED ON TABLE 1607.1 OF THE IBC, SHALL COMPLY WITH GRAVITY LOAD PROVISIONS OF THE IBC.

ELECTRICAL (1002.3) SERVICE UPGRADE: WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED SUCH THAT THE NEW LOAD REQUIRES AN INCREASE IN SERVICE, THE ELECTRICAL SERVICE SHALL BE UPGRADED TO MEET THE REQUIREMENTS OF NFPA 70 FOR THE NEW OCCUPANCY.

ELECTRICAL (1002.4) NUMBER OF ELECTRICAL OUTLETS: WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED, THE NUMBER OF OUTLETS SHALL COMPLY WITH NFPA 70 FOR THE NEW OCCUPANCY.

MECHANICAL (1003.1) MECHANICAL: WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED SUCH THAT THE NEW OCCUPANCY IS SUBJECT TO DIFFERENT KITCHEN EXHAUST REQUIREMENTS OR TO INCREASED MECHANICAL VENTILATION REQUIREMENTS IN ACCORDANCE WITH THE IMC, THE NEW OCCUPANCY SHALL COMPLY WITH THE RESPECTIVE IMC PROVISIONS.

PLUMBING (1001) INCREASED DEMAND: WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED SUCH THAT THE NEW OCCUPANCY IS SUBJECT TO INCREASED OR DIFFERENT PLUMBING FIXTURE REQUIREMENTS OR TO INCREASED WATER SUPPLY REQUIREMENTS IN ACCORDANCE WITH IFC, THE NEW OCCUPANCY SHALL COMPLY WITH THE INTENT OF THE RESPECTIVE IFC PROVISIONS.

COMPLIANCE WITH CHAPTER 9 (102.11): WHERE ALTERATION WORK IS REQUIRED BY THE CHANGE OF OCCUPANCY CLASSIFICATION, THE REQUIREMENTS OF CHAPTER 9 SHALL BE APPLICABLE THROUGHOUT THE BUILDING FOR THE MOST RESTRICTIVE OCCUPANCY CLASSIFICATION.

Table with 2 columns: Item, Description. Includes Existing and Proposed Use Classification for Relative Hazard.

1. WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY, THERE IS NO REQUIREMENT TO INSTALL AN AUTOMATIC FIRE SUPPRESSION SYSTEM.

SECTION 102.22 FIRE ALARM AND DETECTION SYSTEM AND CO ALARM SYSTEM: WHEN A CHANGE IN OCCUPANCY OCCURS AND THERE IS A DIFFERENT FIRE PROTECTION THRESHOLD REQUIREMENT IN CHAPTER 9, THE FIRE ALARM AND DETECTION SYSTEM IS TO BE PROVIDED BASED ON THE NEW OCCUPANCY WHERE THE CHANGE IN OCCUPANCY OCCURS.

Table with 2 columns: Item, Description. Includes Existing and Proposed Use Classification for Relative Hazard.

1. WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY, EXISTING ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF 905 FOR THE NEW OCCUPANCY.

Table with 2 columns: Item, Description. Includes Existing and Proposed Use Classification for Relative Hazard.

1. WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY, THE HEIGHT AND AREA OF THE EXISTING BUILDING SHALL BE DEEMED ACCEPTABLE.

Table with 2 columns: Item, Description. Includes Existing and Proposed Use Classification for Relative Hazard.

1. WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY, EXISTING EXTERIOR WALLS, INCLUDING OPENINGS, SHALL BE ACCEPTED.

ALTERATION LEVEL 3 (NCEBC CHAPTER 9)

(804.4.2) SMOKE ALARMS: INDIVIDUAL SLEEPING UNITS IN ANY WORK AREA IN GROUP R SHALL BE PROVIDED WITH SMOKE ALARMS IN ACCORDANCE WITH SECTION 907.2.11 OF THE IBC. SMOKE ALARMS FOR GROUP R OCCUPANCY ARE PERMITTED TO BE RADIO FREQUENCY TYPE APPLIANCES AS ALLOWED AND INSTALLED BY NFPA 72.

(804.4.3) CARBON MONOXIDE ALARMS: INDIVIDUAL SLEEPING UNITS AND INDIVIDUAL DWELLING UNITS IN GROUP R SHALL BE PROVIDED WITH CARBON MONOXIDE ALARMS IN ACCORDANCE WITH SECTION 915 OF THE IBC, EXCEPT THAT THE CARBON MONOXIDE ALARMS SHALL BE ALLOWED TO BE SOLELY BATTERY OPERATED.

(805.6) DEAD END CORRIDORS: DEAD END CORRIDORS IN ANY WORK AREA SHALL NOT EXCEED 35 FEET.

(805.7) MEANS OF EGRESS LIGHTING: MEANS OF EGRESS LIGHTING SHALL BE IN ACCORDANCE WITH THIS SECTION.

(805.9) EXIT SIGNS: EXIT SIGNS SHALL BE IN ACCORDANCE WITH THIS SECTION, AS APPLICABLE.

(805.9) HANDRAILS: THE REQUIREMENTS OF SECTIONS 805.9.1 AND 805.9.2 SHALL APPLY TO HANDRAILS FROM THE WORK AREA FLOOR TO, AND INCLUDING, THE LEVEL OF EXIT DISCHARGE.

(805.9.1) MINIMUM REQUIREMENT: EVERY REQUIRED EXIT STAIRWAY THAT IS PART OF THE MEANS OF EGRESS FOR ANY WORK AREA AND THAT HAS THREE OR MORE RISERS AND IS NOT PROVIDED WITH AT LEAST ONE HANDRAIL SHALL BE PROVIDED WITH HANDRAILS FOR THE FULL LENGTH OF THE STAIRWAY ON AT LEAST ONE SIDE.

(806.2) ACCESSIBILITY ALTERATIONS AFFECTING AN AREA OF PRIMARY FUNCTION: WHERE AN ALTERATION AFFECTS THE ACCESSIBILITY TO A, OR CONTAINS AN AREA OF PRIMARY FUNCTION THE ROUTE TO THE PRIMARY FUNCTION AREA SHALL BE ACCESSIBLE. THE ACCESSIBLE ROUTE TO THE PRIMARY FUNCTION AREA SHALL INCLUDE TOILET AND DRINKING FOUNTAINS SERVING THE AREA OF PRIMARY FUNCTION.

EXCEPTION 1: THE COSTS OF PROVIDING THE ACCESSIBLE ROUTE ARE NOT REQUIRED TO EXCEED 20 PERCENT OF THE COSTS OF THE ALTERATIONS AFFECTING THE AREA OF PRIMARY FUNCTION.

NORTH CAROLINA BUILDING CODE

REQUIRED SEPARATION OF OCCUPANCIES (NCEBC 1012.8.3): EXISTING BUILDINGS THAT ESTABLISH NEW GROUP R-3 DWELLING UNITS SHALL COMPLY WITH THE SEPARATION REQUIREMENTS OF SECTION 420 OF THE NCBC.

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY: (TABLE 803.1)

Table with 4 columns: Group, Exit Encl. and Exit Passageways, Corridors, Rooms and Enclosed Spaces. Shows requirements for Group B and R-3.

Table with 5 columns: Area, Function, Area, Egress Basis, Occupant Load. Shows First Floor Business Use details.

Table with 5 columns: Area, Function, Area, Egress Basis, Occupant Load. Shows Second Floor Non-Separated Mixed Use details.

EGRESS WIDTH (1005.3.2): \* OCCUPANTS x (0.2) (SEE LIFE SAFETY PLANS)

MIN. CORRIDOR WIDTH (1010.2): 44" MIN. 36" MIN. (OCC. LOAD LESS THAN 50)

DOOR SWING (1010.1.2.1): DOORS SHALL SWING IN THE DIRECTION OF TRAVEL WHERE SERVING AN OCCUPANT LOAD OF 50 OR MORE (FROM THE ROOM THEY SERVE)

MIN. DOOR WIDTH (1010.1.1): 32" MIN. CLEAR BETWEEN FACE OF DOOR AND STOP (36" DOORS PROVIDED)

PANIC HARDWARE (1010.1.10): NOT REQUIRED FOR (B OR R-3) USE

FIRE PROTECTION SYSTEMS: MANUAL FIRE ALARM (907.2.2) (REQUIRED) NO (PROVIDED) NO

SPRINKLER SYSTEM (903) GROUP B AND R-3 (REQUIRED) NO (PROVIDED) NO

FORTABLE FIRE EXTINGUISHER (906) (REQUIRED) YES (PROVIDED) YES

THROUGH-PENETRATION FIRESTOP SYSTEM (114.3.1.2): THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM E814 OR UL1479.

420.2 SEPARATION WALLS: WALLS SEPARATING DWELLING UNITS IN THE SAME BUILDING AND FLOOR ASSEMBLIES SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS FIRE PARTITIONS IN ACCORDANCE WITH SECTION 1008.

420.3 HORIZONTAL SEPARATION: FLOOR ASSEMBLIES SEPARATING DWELLING UNITS IN THE SAME BUILDINGS, FLOOR ASSEMBLIES SEPARATING SLEEPING UNITS IN THE SAME BUILDING AND FLOOR ASSEMBLIES SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS HORIZONTAL ASSEMBLIES IN ACCORDANCE WITH SECTION 711.

1008.3 FIRE PARTITIONS: FIRE-RESISTANCE RATING: FIRE PARTITIONS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR.

1012.5 FIRE BARRIER CONTINUITY: EXCEPTION 2: INTERIOR EXIT STAIRWAY ENCLOSURES SHALL BE PERMITTED TO TERMINATE AT A TOP ENCLOSURE COMPLYING WITH SECTION 713.2

1112.3 SUPPORTING CONSTRUCTION: THE SUPPORTING CONSTRUCTION OF HORIZONTAL ASSEMBLIES SHALL BE PROTECTED TO AFFORD THE REQUIRED FIRE RESISTANCE RATING OF THE HORIZONTAL ASSEMBLY SUPPORTED.

EXCEPTION: IN BUILDINGS OF TYPE IIB, IIB, OR VB CONSTRUCTION, THE CONSTRUCTION SUPPORTING THE HORIZONTAL ASSEMBLY IS NOT REQUIRED TO BE FIRE-RESISTANCE RATED AT THE FOLLOWING: 1) HORIZONTAL ASSEMBLIES AT THE SEPARATIONS OF DWELLING UNITS AND SLEEPING UNITS AS REQUIRED BY SECTION 420.3

1112.4.3 DWELLING/SLEEPING UNITS: HORIZONTAL ASSEMBLIES SERVING AS DWELLING OR SLEEPING UNIT SEPARATIONS IN ACCORDANCE WITH SECTION 420.3 SHALL NOT BE LESS THAN 1-HOUR FIRE RESISTANCE-RATED CONSTRUCTION

1112.4 SHAFT ENCLOSURES: FIRE-RESISTANCE RATING: SHAFT ENCLOSURES SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 1 HOUR WHERE CONNECTING LESS THAN 4 STORIES. THE RATING SHALL NOT BE LESS THAN THE FLOOR ASSEMBLY PENETRATED, BUT NEED NOT EXCEED 2 HOURS

1112.12 ENCLOSURE AT TOP: A SHAFT ENCLOSURE THAT DOES NOT EXTEND TO THE UNDERSIDE OF THE ROOF SHEATHING, DECK OR SLAB OF THE BUILDING SHALL BE ENCLOSED AT THE TOP WITH CONSTRUCTION OF THE SAME FIRE RESISTANCE RATING AS THE TOPMOST FLOOR PENETRATED BY THE SHAFT, BUT NOT LESS THAN THE FIRE-RESISTANCE RATING REQUIRED FOR THE SHAFT ENCLOSURE.

TABLE 1006.3.2(2) STORIES W/ ONE EXIT: (B) OCCUPANCY, 2ND STORY ABOVE GRADE PLANE MAX. 29 OCCUPANTS, MAX. COMMON PATH OF EGRESS TRAVEL DISTANCE 75 FEET

1006.3.2(4) SINGLE EXITS: (R-3) OCCUPANCIES SHALL BE PERMITTED TO HAVE ONE EXIT OR ACCESS TO A SINGLE EXIT.

1011.2 EXIT ACCESS TRAVEL DISTANCE: GROUP (R) MAX. 200 FT. WITHOUT SPRINKLER SYSTEM

PLUMBING FIXTURE CALCULATION (IPC 2018):

FOR FIRST FLOOR BUSINESS USE AT 43 (PER OCC. LOAD TABLE) MALE POPULATION = 43 x 50 = 22 FEMALE POPULATION = 43 x 50 = 22 FROM TABLE 403.1 (BUSINESS USE) WATER CLOSETS/URINALS: 1 PER 25 FOR FIRST 50 (MEN) 1 PROVIDED 1 PER 25 FOR FIRST 50 (WOMEN) 1 PROVIDED LAVATORIES REQUIRED: 1 PER 40 FOR FIRST 80 (MEN) 1 PROVIDED 1 PER 40 FOR FIRST 80 (WOMEN) 1 PROVIDED DRINKING FOUNTAIN: 1 PER 100 PEOPLE. 1 HIGH/ LOW PROVIDED SERVICE SINK: 1 REQUIRED 1 PROVIDED

2302.2 SEPARATE FACILITIES:

EXCEPTION 2: SEPARATE FACILITIES SHALL NOT BE REQUIRED IN STRUCTURES OR SPACES WITH A TOTAL OCCUPANT LOAD, INCLUDING BOTH EMPLOYEES AND CUSTOMERS, OF 25 OR FEWER.

FOR SECOND FLOOR BUSINESS USE AT 16 (PER OCC. LOAD TABLE)

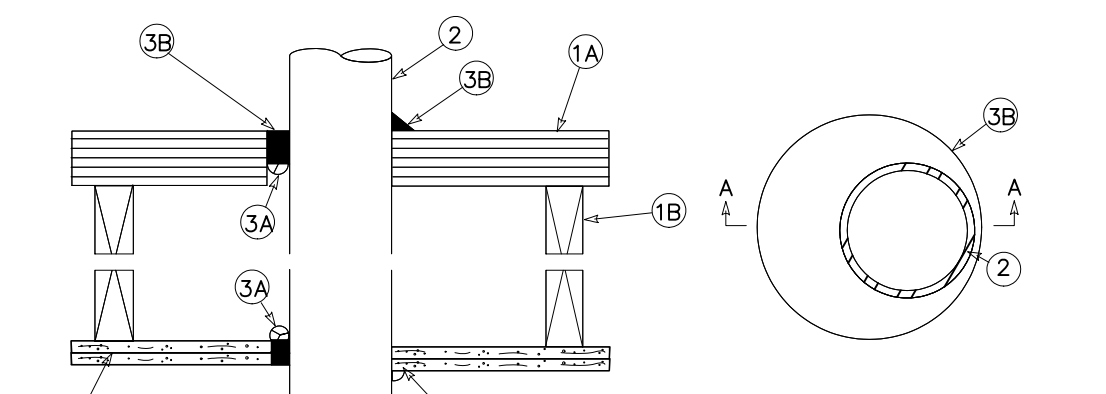
FROM TABLE 403.1 (BUSINESS USE) WATER CLOSETS/URINALS: 1 UNISEX (SEE EXC. BELOW) 1 PROVIDED LAVATORIES REQUIRED: 1 UNISEX (SEE EXC. BELOW) 1 PROVIDED DRINKING FOUNTAIN: NOT REQUIRED WITH OCC. LOAD OF 25 OR FEWER SERVICE SINK: NOT REQUIRED WITH OCC. LOAD OF 25 OR FEWER

403.2 SEPARATE FACILITIES:

EXCEPTION 2: SEPARATE FACILITIES SHALL NOT BE REQUIRED IN STRUCTURES OR SPACES WITH A TOTAL OCCUPANT LOAD, INCLUDING BOTH EMPLOYEES AND CUSTOMERS, OF 25 OR FEWER.

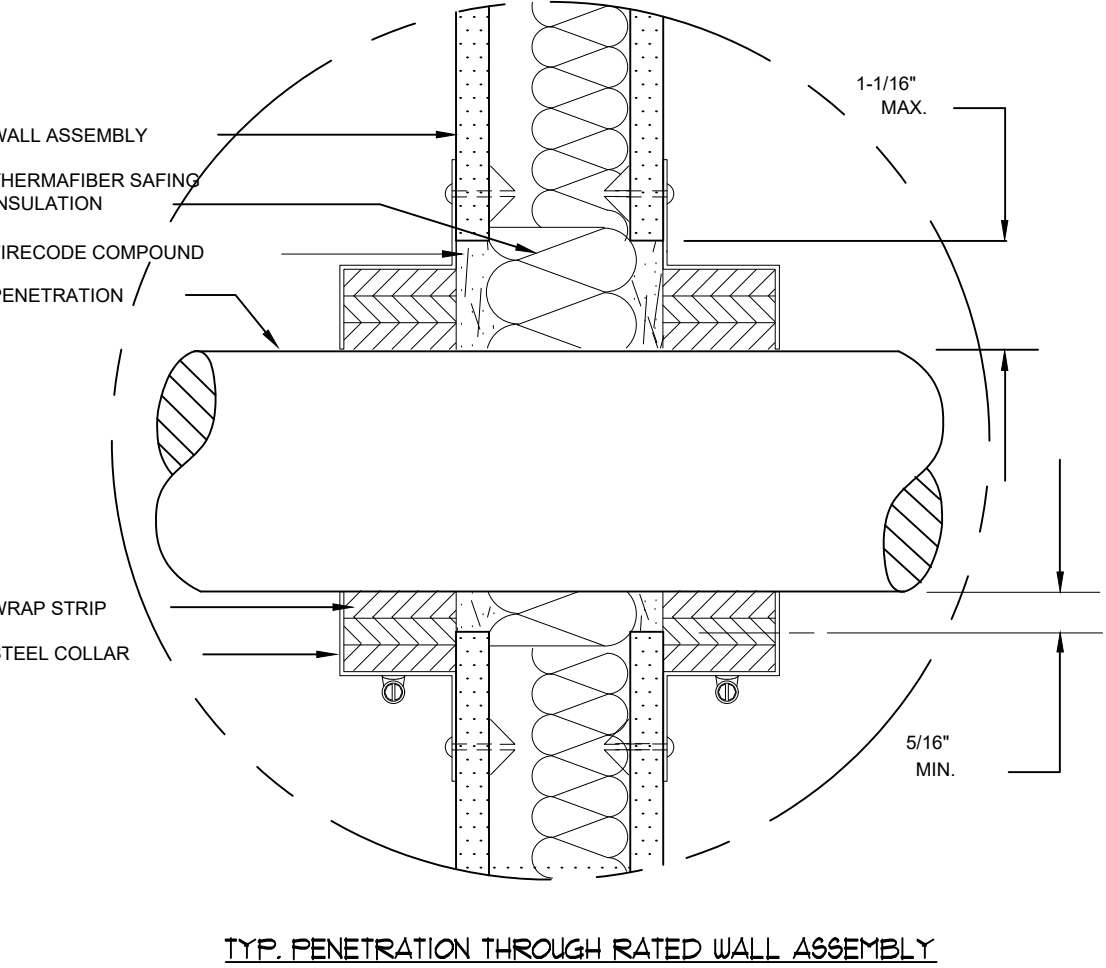
FROM TABLE 403.1 (R-3 RESIDENTIAL USE)

WATER CLOSETS/URINALS: 1 PER DWELLING UNIT 1 PROVIDED UNIT 200, 1 PROVIDED UNIT 201 LAVATORIES REQUIRED: 1 PER DWELLING UNIT 1 PROVIDED UNIT 200, 1 PROVIDED UNIT 201 OTHER: 1 KITCHEN SINK AND 1 AUTOMATIC CLOTHES WASHER CONNECTION PER DWELLING UNIT 1 PROVIDED UNIT 200, 1 PROVIDED UNIT 201



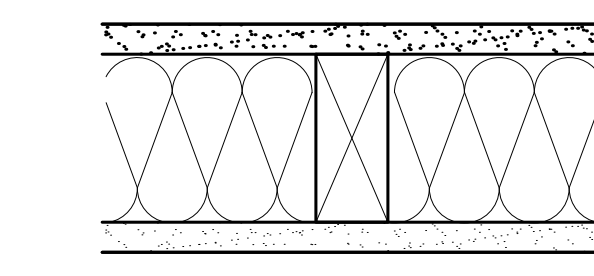
Section A-A TYP. PENETRATION THROUGH RATED FLOOR ASSEMBLY. SYSTEM DESCRIPTION: F-C-1069

- 1. FLOOR/CEILING ASSEMBLY: A. FLOORING SYSTEM: 3/4" PLYWOOD B. WOOD JOIST: NOM. 2" X 12" LUMBER JOIST. C. CEILING SYSTEM: 2 LAYER OF 5/8" GYPSUM WALLBOARD, PER UL DESIGN. 2. METALLIC PIPE: A. STEEL PIPE: 8" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE. B. IRON PIPE, 8" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE. C. CONDUIT: 4" DIAMETER (OR SMALLER) ELECTRICAL METALLIC TUBING (EMT) OR STEEL CONDUIT. D. COPPER TUBING: 4" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. E. COPPER PIPE: 4" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. ANNULAR SPACE FROM MINIMUM 0" TO MAXIMUM 1/8". 3. FORMING AND FIRE STOP MATERIALS: A. FORMING MATERIAL (OPTIONAL): FOAM BACKER ROD PACKED INTO OPENING AS A PERMANENT FORM. B. TYPE IA: MINIMUM 1/2" THICK SEALANT APPLIED WITHIN THE ANNULUS, FLUSH WITH THE TOP OF THE FLOOR AND BOTTOM OF THE CEILING ASSEMBLIES. ADDITIONAL SEALANT TO BE APPLIED SUCH THAT A MINIMUM 1/2" GROUT IS FORMED AROUND THE PENETRATING ITEM.



TYP. PENETRATION THROUGH RATED WALL ASSEMBLY

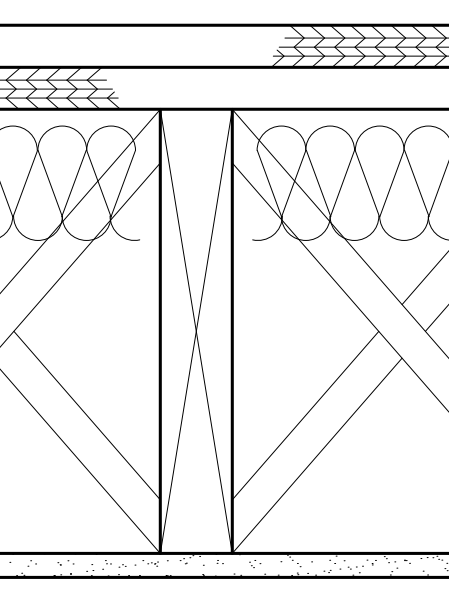
SYSTEM PERFORMANCE 1 HR FIRE UL DESIGN NO. U314



SYSTEM DESCRIPTION WALL ASSEMBLY

- GYP. BOARD: ONE LAYER 5/8" THICK TYPE "X" GYP. BOARD - WOOD STUDS: MIN. 2x4 WOOD STUDS @ 16" O.C. - (OPTIONAL) INSULATION: 3 1/2" GLASS FIBER BATT. INSULATION IN CAVITY - GYP. BOARD: ONE LAYER 5/8" THICK TYPE "X" GYP. BOARD.

SYSTEM PERFORMANCE 1 HR FIRE UL DESIGN NO. L501



SYSTEM DESCRIPTION FLOOR/CEILING ASSEMBLY

- 1" NOMINAL WOOD SUB FLOOR - MIN. 2x8 JOISTS @ 16" O.C. - MIN. 1/2 IN. OR MIN. 2x10 SOLID BLOCKING BETWEEN JOISTS - (OPTIONAL) MIN. R-13 MINERAL WOOL OR FIBERGLASS INSUL. - JOINTS FINISHED

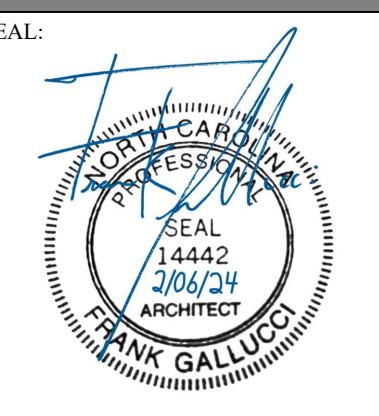
1 RATED ASSEMBLIES

N.T.S.



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FGA ASSOCIATES, PLLC FRANK GALLUCCI, ARCHITECT 11 S. MAIN ST. WENDELL, N.C. 27791 Frank@FrankGAarchitect.com 919-819-4635



MIXED USE BUILDING ALTERATIONS 135 HILLSBORO ST., OXFORD, N.C. 27565

REVISION/ISSUE 2-06-2024\_PERMIT SET

DATE: 2-06-2024 DRAWN BY: FG JOB NUMBER: 23-99

CODE ANALYSIS AND RATED ASSEMBLIES

SHEET:

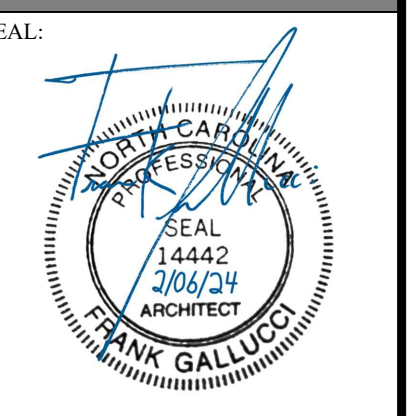
LS-1





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**FGA ASSOCIATES, PLLC**  
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**MIXED USE BUILDING ALTERATIONS**  
135 HILLSBORO ST. OXFORD,  
N.C. 27566

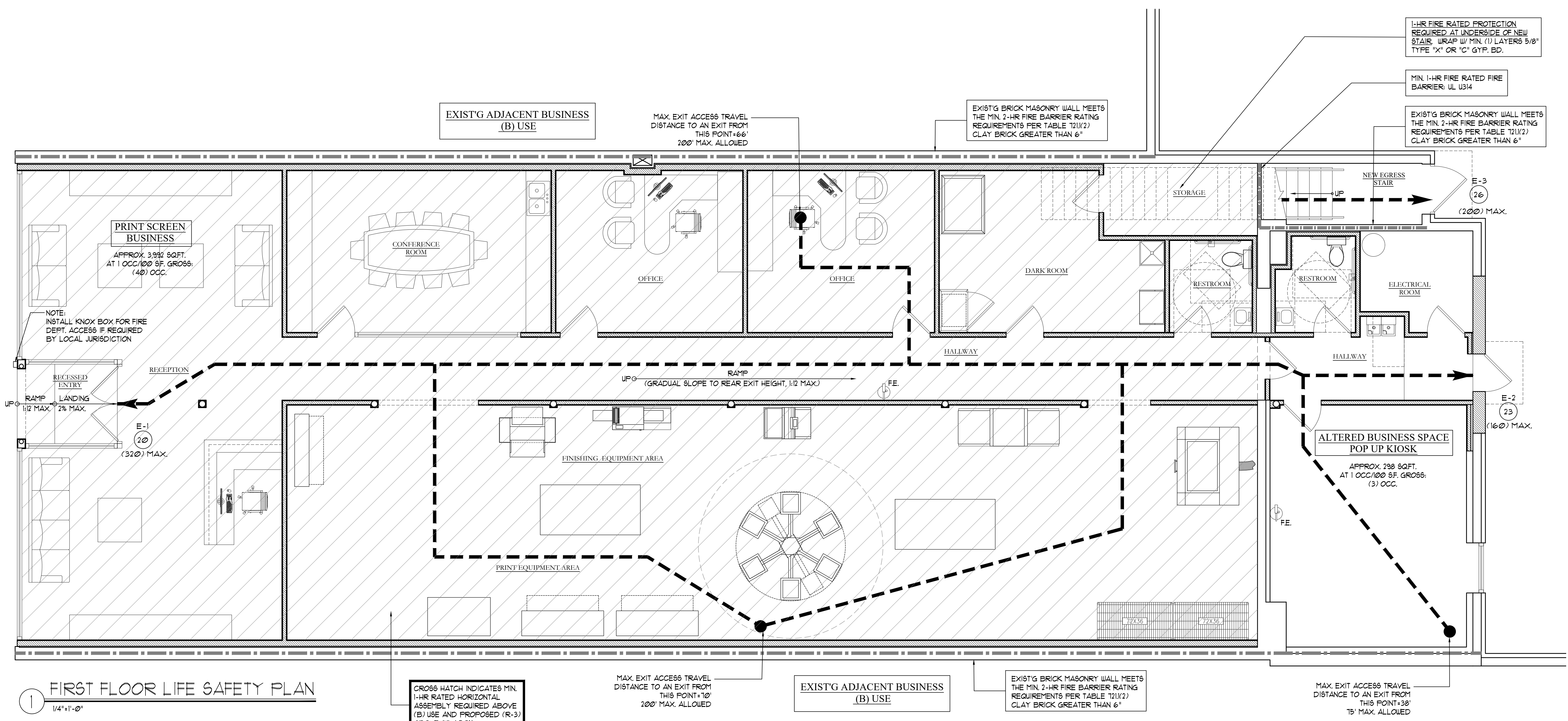
REVISION/ISSUE  
2-06-2024 PERMIT SET

DATE: 2-06-2024  
DRAWN BY: FG  
JOB NUMBER: 23-99

FIRST FLOOR LIFE SAFETY PLAN

SHEET:

**LS-2**



**1 FIRST FLOOR LIFE SAFETY PLAN**  
1/4"=1'-0"

CROSS HATCH INDICATES MIN. 1-HR RATED HORIZONTAL ASSEMBLY REQUIRED ABOVE (B) USE AND PROPOSED ABOVE (UL L501)

MAX. EXIT ACCESS TRAVEL DISTANCE TO AN EXIT FROM THIS POINT=10' 200' MAX. ALLOWED

EXIST'G ADJACENT BUSINESS (B) USE

EXIST'G BRICK MASONRY WALL MEETS THE MIN. 2-HR FIRE BARRIER RATING REQUIREMENTS PER TABLE 721.1(2) CLAY BRICK GREATER THAN 6"

MAX. EXIT ACCESS TRAVEL DISTANCE TO AN EXIT FROM THIS POINT=38' 75' MAX. ALLOWED

**LIFE SAFETY LEGEND**

- > EVACUATION ROUTE
- (XXX) OCCUPANT LOAD PER EXIT DOOR SEE OCCUPANT LOAD TABLE
- INDICATES 1-HR RATED WALL ASSEMBLY
- INDICATES 2-HR RATED WALL ASSEMBLY
- FE. SUGGESTED LOCATION OF PORTABLE FIRE EXTINGUISHER TYPE "ABC". FIELD LOCATE W/ FIRE MARSHAL

| EXIT CAPACITY |               |  |                |
|---------------|---------------|--|----------------|
| EXIT #        | OCCUPANT LOAD | MIN. WIDTH REQUIRED (OCC X 0.2) = UNIT WIDTH, INCHES | PROVIDED WIDTH |
| E-1           | 20            | 4.0  | 68             |
| E-2           | 23            | 4.6  | 32             |
| E-3           | 26            | 5.2  | 40             |
| E-4           | 5             | 1.0  | 32             |
| E-5           | 5             | 1.0  | 32             |
| E-6           | 16            | 3.2  | 32             |

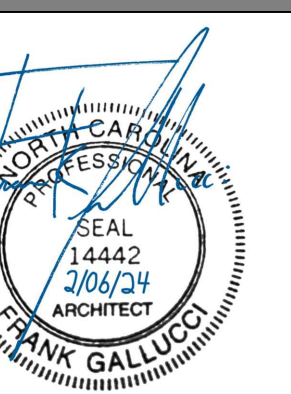


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SEAL:



MIXED USE BUILDING  
ALTERATIONS

135 HILLSBORO ST. OXFORD,  
N.C. 27565

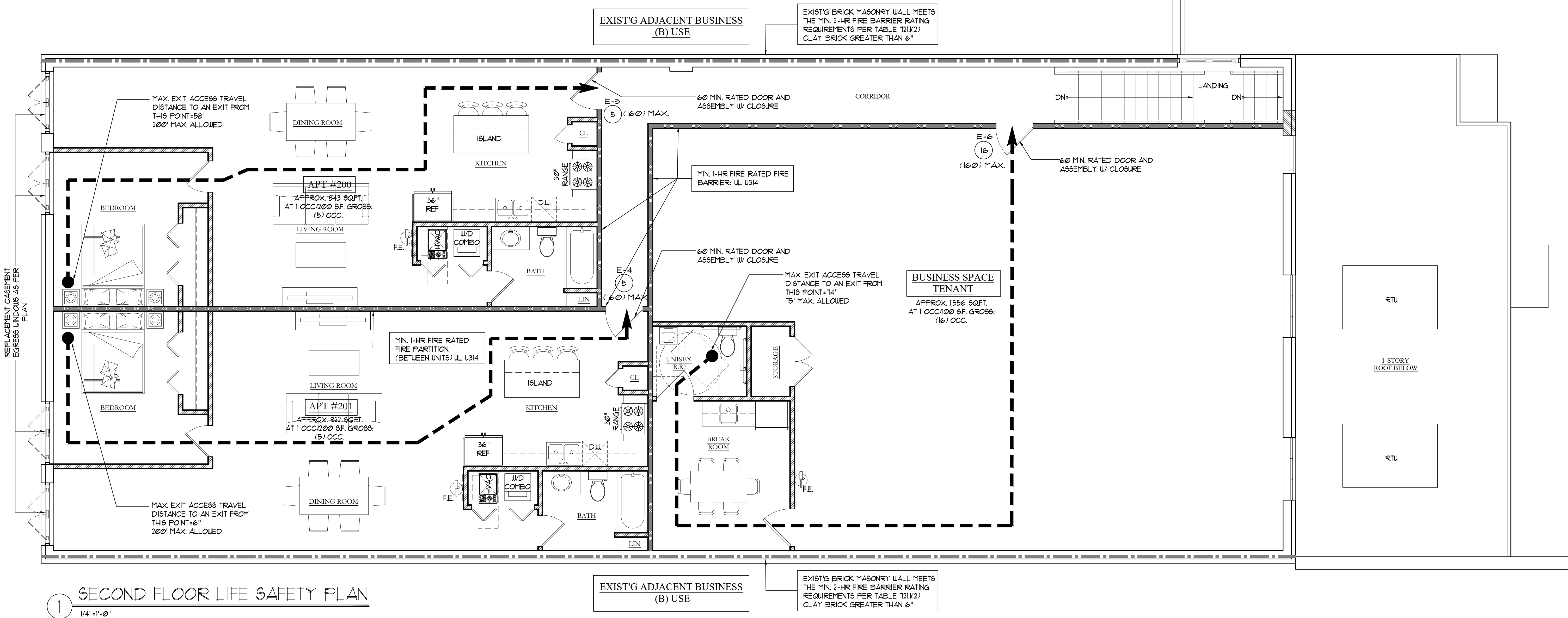
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2-06-2024\_PERMIT SET

DATE: 2-06-2024  
DRAWN BY: FG  
JOB NUMBER: 23-99

SECOND FLOOR  
LIFE SAFETY PLAN

SHEET:

LS-3



1 SECOND FLOOR LIFE SAFETY PLAN  
1/4"=1'-0"

LIFE SAFETY LEGEND

- EVACUATION ROUTE
- OCCUPANT LOAD PER EXIT DOOR. SEE OCCUPANT LOAD TABLE
- INDICATES 1-HR RATED WALL ASSEMBLY
- INDICATES 2-HR RATED WALL ASSEMBLY
- SUGGESTED LOCATION OF PORTABLE FIRE EXTINGUISHER TYPE "ABC". FIELD LOCATE W/ FIRE MARSHAL

| EXIT CAPACITY |               |  |                |
|---------------|---------------|--|----------------|
| EXIT #        | OCCUPANT LOAD | MIN. WIDTH REQUIRED (OCC X 0.2) = UNIT WIDTH, INCHES | PROVIDED WIDTH |
| E-1           | 20            | 40   | 68             |
| E-2           | 23            | 46   | 32             |
| E-3           | 26            | 52   | 40             |
| E-4           | 5             | 10   | 32             |
| E-5           | 5             | 10   | 32             |
| E-6           | 16            | 32   | 32             |



**PROJECT INFORMATION**

THE BUILDING SHALL BE IN COMPLIANCE WITH THE MOST RECENT VERSION OF THE FOLLOWING NORTH CAROLINA EDITION CODES, WHERE APPLICABLE TO THE SCOPE OF WORK.

- 2018 BUILDING CODE
- 2018 EXISTING BUILDING CODE
- 2018 ENERGY CONSERVATION CODE
- 2018 FIRE CODE
- 2018 FUEL GAS CODE
- 2018 MECHANICAL CODE
- 2018 PLUMBING CODE
- 2020 ELECTRIC CODE
- 2009 ICC/ANSI A117.1

**SCOPE OF WORK:**  
THIS BUILDING IS AN EXISTING 2 STORY MASONRY AND WOOD STRUCTURE, PREVIOUSLY BUSINESS ON BOTH FLOORS (B-USE). THE NEW WORK ENCOMPASSES FITTING OUT THE EXISTING SECOND FLOOR FOR 2 NEW APARTMENTS (R-3 CHANGE OF USE), ALTERATION LEVEL 2. THE BUILDING WILL BECOME A NON-SEPARATED MIXED USE (B/R-3) STRUCTURE. NO WORK IS PROPOSED FOR THE EXISTING BUSINESS SPACES ON THE FIRST FLOOR, WITH THE EXCEPTION OF WORK NECESSARY TO CREATE A FIRE SEPARATION FROM THE NEW APARTMENTS. REFER TO THESE DOCUMENTS FOR DETAILS ON THE FULL SCOPE OF WORK.

**CLASSIFICATION OF WORK:**  
CHANGE OF OCCUPANCY AND ALTERATION LEVEL 2 (NCEBC CHAPTER 10.3 & 10)  
**EXISTING USE:**  
BUSINESS (B)  
**PROPOSED USE:**  
NON-SEPARATED MIXED USE (B) AND (R-3)  
**CONSTRUCTION CLASSIFICATION (NCEBC 6.02):**  
TYPE IIIB (COMBUSTIBLE UNPROTECTED) - NON-SPRINKLERED

**BUILDING AREA CALCULATION**

|  |                   |
|--|-------------------|
| FIRST FLOOR EXIST'G BUSINESS SPACE #1        | APPROX. 378 SF.   |
| FIRST FLOOR EXIST'G BUSINESS SPACE #2        | APPROX. 1686 SF.  |
| SECOND FLOOR NEW APARTMENT #201 (ALTERATION) | APPROX. 520 SF.   |
| SECOND FLOOR NEW APARTMENT #202 (ALTERATION) | APPROX. 1130 SF.  |
| TOTAL  | APPROX. 4,294 SF. |

**CHANGE OF OCCUPANCY (NCEBC CHAPTER 10)**

**STRUCTURAL (1007.1) GRAVITY LOADS**  
BUILDINGS OR PORTIONS SUBJECT TO A CHANGE IN OCCUPANCY WHERE SUCH CHANGE IN THE NATURE OF THE OCCUPANCY RESULTS IN HIGHER UNIFORM OR CONCENTRATED LOADS BASED ON TABLE 1607.1 OF THE IBC, SHALL COMPLY W/ GRAVITY LOAD PROVISIONS OF THE IBC.  
**EXCEPTION 1:** STRUCTURAL ELEMENTS WHOSE STRESS IS NOT INCREASED BY MORE THAN 10 PERCENT

**ELECTRICAL (1008.3) SERVICE UPGRADE**  
WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED SUCH THAT THE NEW LOAD REQUIRES AN INCREASE IN SERVICE, THE ELECTRICAL SERVICE SHALL BE UPGRADED TO MEET THE REQUIREMENTS OF NFPA 70 FOR THE NEW OCCUPANCY.

**ELECTRICAL (1008.4) NUMBER OF ELECTRICAL OUTLETS**  
WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED, THE NUMBER OF OUTLETS SHALL COMPLY WITH NFPA 70 FOR THE NEW OCCUPANCY.

**MECHANICAL (1009.1)**  
WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED SUCH THAT THE NEW OCCUPANCY IS SUBJECT TO DIFFERENT KITCHEN EXHAUST REQUIREMENTS OR TO INCREASED MECHANICAL VENTILATION REQUIREMENTS IN ACCORDANCE WITH THE IMC, THE NEW OCCUPANCY SHALL COMPLY WITH THE RESPECTIVE IMC PROVISIONS

**PLUMBING (1010.1) INCREASED DEMAND**  
WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED SUCH THAT THE NEW OCCUPANCY IS SUBJECT TO INCREASED OR DIFFERENT PLUMBING FIXTURE REQUIREMENTS OR TO INCREASED WATER SUPPLY REQUIREMENTS IN ACCORDANCE WITH IPC, THE NEW OCCUPANCY SHALL COMPLY WITH THE INTENT OF THE RESPECTIVE IPC PROVISIONS.

**COMPLIANCE WITH CHAPTER 9 (1012.1)**  
WHERE ALTERATION WORK IS REQUIRED BY THE CHANGE OF OCCUPANCY CLASSIFICATION, THE REQUIREMENTS OF CHAPTER 9 SHALL BE APPLICABLE THROUGHOUT THE BUILDING FOR THE MOST RESTRICTIVE OCCUPANCY CLASSIFICATION.

**TABLE 1012.2.1 SPRINKLER HAZARD CATEGORY**

|   |  |
|---|--|
| EXISTING USE CLASSIFICATION B: RELATIVE HAZARD: 6   |  |
| PROPOSED USE CLASSIFICATION R-3: RELATIVE HAZARD: 6 |  |

1. WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY, THERE IS NO REQUIREMENT TO INSTALL AN AUTOMATIC FIRE SUPPRESSION SYSTEM

**SECTION 1012.2.2 FIRE ALARM AND DETECTION SYSTEM AND CO ALARM SYSTEM**  
WHEN A CHANGE IN OCCUPANCY OCCURS AND THERE IS A DIFFERENT FIRE PROTECTION THRESHOLD REQUIREMENT IN CHAPTER 9, THE FIRE ALARM AND DETECTION SYSTEM IS TO BE PROVIDED BASED ON THE NEW OCCUPANCY WHERE THE CHANGE IN OCCUPANCY OCCURS

**TABLE 1012.4 MEANS OF EGRESS HAZARD CATEGORY**

|   |  |
|---|--|
| EXISTING USE CLASSIFICATION B: RELATIVE HAZARD: 4   |  |
| PROPOSED USE CLASSIFICATION R-3: RELATIVE HAZARD: 4 |  |

1. WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY, EXISTING ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF 905 FOR THE NEW OCCUPANCY.

**TABLE 1012.5 HEIGHTS AND AREAS HAZARD CATEGORY**

|   |  |
|---|--|
| EXISTING USE CLASSIFICATION B: RELATIVE HAZARD: 4   |  |
| PROPOSED USE CLASSIFICATION R-3: RELATIVE HAZARD: 4 |  |

1. WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY, THE HEIGHT AND AREA OF THE EXISTING BUILDING SHALL BE DEEMED ACCEPTABLE.

**TABLE 1012.6 EXPOSURE OF EXTERIOR WALLS CATEGORY**

|   |  |
|---|--|
| EXISTING USE CLASSIFICATION B: RELATIVE HAZARD: 3   |  |
| PROPOSED USE CLASSIFICATION R-3: RELATIVE HAZARD: 3 |  |

1. WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY, EXISTING EXTERIOR WALLS, INCLUDING OPENINGS, SHALL BE ACCEPTED.

**ALTERATION LEVEL 2 (NCEBC CHAPTER 9)**

**(804.4.2) SMOKE ALARMS**  
INDIVIDUAL SLEEPING UNITS IN ANY WORK AREA IN GROUP R SHALL BE PROVIDED WITH SMOKE ALARMS IN ACCORDANCE WITH SECTION 9012.11 OF THE IBC. SMOKE ALARMS FOR GROUP R OCCUPANCY ARE PERMITTED TO BE RADIO FREQUENCY TYPE APPLIANCES AS ALLOWED AND INSTALLED BY NFPA 72.

**(804.4.3) CARBON MONOXIDE ALARMS**  
INDIVIDUAL SLEEPING UNITS AND INDIVIDUAL DWELLING UNITS IN GROUP R SHALL BE PROVIDED WITH CARBON MONOXIDE ALARMS IN ACCORDANCE WITH SECTION 915 OF THE IBC, EXCEPT THAT THE CARBON MONOXIDE ALARMS SHALL BE ALLOWED TO BE SOLELY BATTERY OPERATED.

**(805.6) DEAD END CORRIDORS**  
DEAD END CORRIDORS IN ANY WORK AREA SHALL NOT EXCEED 35 FEET.

**(805.7) MEANS OF EGRESS LIGHTING**  
MEANS OF EGRESS LIGHTING SHALL BE IN ACCORDANCE WITH THIS SECTION

**(805.8) EXIT SIGNS**  
EXIT SIGNS SHALL BE IN ACCORDANCE WITH THIS SECTION, AS APPLICABLE.

**(805.9) HANDRAILS**  
THE REQUIREMENTS OF SECTIONS 805.9.1 AND 805.9.2 SHALL APPLY TO HANDRAILS FROM THE WORK AREA FLOOR TO, AND INCLUDING, THE LEVEL OF EXIT DISCHARGE.

**805.9.1 MINIMUM REQUIREMENT**  
EVERY REQUIRED EXIT STAIRWAY THAT IS PART OF THE MEANS OF EGRESS FOR ANY WORK AREA AND THAT HAS THREE OR MORE RISERS AND IS NOT PROVIDED WITH AT LEAST ONE HANDRAIL SHALL BE PROVIDED WITH HANDRAILS FOR THE FULL LENGTH OF THE STAIRWAY ON AT LEAST ONE SIDE.

**(806.2) ACCESSIBILITY ALTERATIONS AFFECTING AN AREA OF PRIMARY FUNCTION**  
WHERE AN ALTERATION AFFECTS THE ACCESSIBILITY TO A, OR CONTAINS AN AREA OF PRIMARY FUNCTION, THE ROUTE TO THE PRIMARY FUNCTION AREA SHALL BE ACCESSIBLE. THE ACCESSIBLE ROUTE TO THE PRIMARY FUNCTION AREA SHALL INCLUDE TOILET AND DRINKING FOUNTAINS SERVING THE AREA OF PRIMARY FUNCTION.  
**EXCEPTION 1:** THE COSTS OF PROVIDING THE ACCESSIBLE ROUTE ARE NOT REQUIRED TO EXCEED 20 PERCENT OF THE COSTS OF THE ALTERATIONS AFFECTING THE AREA OF PRIMARY FUNCTION.

**NORTH CAROLINA BUILDING CODE**

**REQUIRED SEPARATION OF OCCUPANCIES (NCEBC 1012.8.3):**

EXISTING BUILDINGS THAT ESTABLISH NEW GROUP R-3 DWELLING UNITS SHALL COMPLY WITH THE SEPARATION REQUIREMENTS OF SECTION 420 OF THE NCBC.

**INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY: (TABLE 803.1)**

| GROUP | NON-SPRINKLERED                 |           |                           |
|-------|---------------------------------|-----------|---------------------------|
|       | EXIT ENCL. AND EXIT PASSAGEWAYS | CORRIDORS | ROOMS AND ENCLOSED SPACES |
| B     | A                               | B         | C                         |
| R-3   | C                               | C         | C                         |

**OCCUPANCY LOAD: (1004.1.2)**

| AREA                   | FUNCTION | AREA | EGRESS BASIS        | OCCUPANT LOAD |
|------------------------|----------|------|---------------------|---------------|
| FF EXISTING BUSINESS 1 | BUSINESS | 378  | 1 OCC/100 SF. GROSS | 4             |
| FF EXISTING BUSINESS 2 | BUSINESS | 1686 | 1 OCC/100 SF. GROSS | 17            |
| TOTAL                  |          |      |                     | 21            |

| AREA          | FUNCTION    | AREA    | EGRESS BASIS      | OCCUPANT LOAD |
|---------------|-------------|---------|-------------------|---------------|
| APARTMENT 200 | RESIDENTIAL | 520 SF  | 200 SF(GROSS)/OCC | 3             |
| APARTMENT 201 | RESIDENTIAL | 1130 SF | 200 SF(GROSS)/OCC | 9             |
| TOTAL         |             |         |                   | 12            |

**EGRESS WIDTH (1005.3.2):**  
21 OCCUPANTS = 21x(0.2) + 42" MIN. (SEE EGRESS PLAN)  
12 OCCUPANTS = 12x(0.2) + 24" MIN. (SEE EGRESS PLAN)

**MIN. CORRIDOR WIDTH (1010.2):**  
44" MIN.  
36" MIN. (OCC. LOAD LESS THAN 50)

**DOOR SWING (1010.12.1)**  
DOORS SHALL SWING IN THE DIRECTION OF TRAVEL, WHERE SERVING AN OCCUPANT LOAD OF 50 OR MORE (FROM THE ROOM THEY SERVE)

**MIN. DOOR WIDTH (1010.11):**  
32" MIN. CLEAR BETWEEN FACE OF DOOR AND STOP (36" DOORS PROVIDED)

**PANIC HARDWARE (1010.10):**  
NOT REQUIRED FOR (B OR R-3) USE

**FIRE PROTECTION SYSTEMS:**

MANUAL FIRE ALARM (907): GROUP B AND R-3 (REQUIRED) NO (PROVIDED) NO  
SPRINKLER SYSTEM (903): GROUP B AND R-3 (REQUIRED) NO (PROVIDED) NO  
PORTABLE FIRE EXTINGUISHER (906): (REQUIRED) YES (PROVIDED) YES

**THROUGH-PENETRATION FIRESTOP SYSTEM (1143.1.2)**

**420.2 SEPARATION WALLS**

**420.3 HORIZONTAL SEPARATION**

**1003 FIRE PARTITIONS FIRE-RESISTANCE RATING**

**1015 FIRE BARRIER CONTINUITY EXCEPTION 2**

**1112.3 SUPPORTING CONSTRUCTION**

**1112.4.3 DWELLING/SLEEPING UNITS**

**113.4 SHAFT ENCLOSURES FIRE-RESISTANCE RATING**

**113.12 ENCLOSURE AT TOP**

**1006.3(2)(4) SINGLE EXITS**

**1012.2 EXIT ACCESS TRAVEL DISTANCE**

**PLUMBING FIXTURE CALCULATION (NC PLUMBING CODE 2018):**

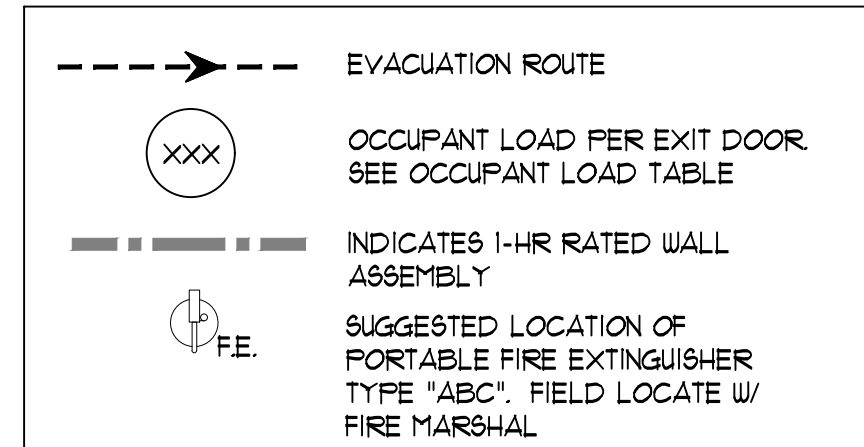
**FROM TABLE 403.1 (R-3 RESIDENTIAL USE)**

WATER CLOSETS/URINALS: 1 PER DWELLING UNIT 1 PROVIDED UNIT 200, 2 PROVIDED UNIT 201

LAVATORIES REQUIRED: 1 PER DWELLING UNIT 1 PROVIDED UNIT 200, 3 PROVIDED UNIT 201

OTHER: 1 KITCHEN SINK AND 1 AUTOMATIC CLOTHES WASHER CONNECTION PER DWELLING UNIT 1 PROVIDED UNIT 200, 1 PROVIDED UNIT 201

**LIFE SAFETY LEGEND**



**EXIT CAPACITY**

| EXIT # | OCCUPANT LOAD | MIN. WIDTH REQUIRED (OCC X 0.2) + UNIT WIDTH, INCHES | PROVIDED WIDTH |
|--------|---------------|--|----------------|
| E-1    | 4             | 0.8  | 36             |
| E-2    | 12            | 2.4  | 36             |
| E-3    | 17            | 3.4  | 36             |
| E-4    | 3             | 0.6  | 36             |
| E-5    | 9             | 1.8  | 36             |

THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM E814 OR UL1419, WITH A MIN. POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER. THE SYSTEM SHALL HAVE AN F RATING/T RATING OF NOT LESS THAN 1 HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED.

WALLS SEPARATING DWELLING UNITS IN THE SAME BUILDING, WALLS SEPARATING SLEEPING UNITS IN THE SAME BUILDING AND WALLS SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS HORIZONTAL ASSEMBLIES IN ACCORDANCE WITH SECTION 111.

FLOOR ASSEMBLIES SEPARATING DWELLING UNITS IN THE SAME BUILDING, FLOOR ASSEMBLIES SEPARATING SLEEPING UNITS IN THE SAME BUILDING AND FLOOR ASSEMBLIES SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS HORIZONTAL ASSEMBLIES IN ACCORDANCE WITH SECTION 111.

FIRE PARTITIONS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR

INTERIOR EXIT STAIRWAY ENCLOSURES SHALL BE PERMITTED TO TERMINATE AT A TOP ENCLOSURE COMPLYING WITH SECTION 113.12

THE SUPPORTING CONSTRUCTION OF HORIZONTAL ASSEMBLIES SHALL BE PROTECTED TO AFFORD THE REQUIRED FIRE RESISTANCE RATING OF THE HORIZONTAL ASSEMBLY SUPPORTED.

**EXCEPTION:** IN BUILDINGS OF TYPE IIB, IIIB, OR VB CONSTRUCTION THE CONSTRUCTION SUPPORTING THE HORIZONTAL ASSEMBLY IS NOT REQUIRED TO BE FIRE-RESISTANCE RATED AT THE FOLLOWING:  
2) HORIZONTAL ASSEMBLIES AT THE SEPARATIONS OF DWELLING UNITS AND SLEEPING UNITS AS REQUIRED BY SECTION 420.3

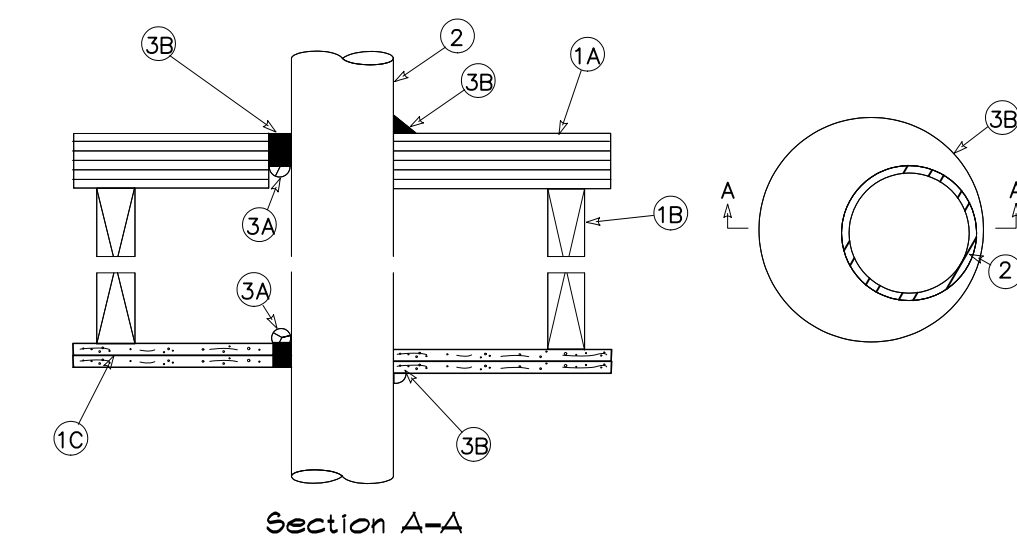
HORIZONTAL ASSEMBLIES SERVING AS DWELLING OR SLEEPING UNIT SEPARATIONS IN ACCORDANCE WITH SECTION 420.3 SHALL NOT BE LESS THAN 1-HOUR FIRE RESISTANCE-RATED CONSTRUCTION

SHAFT ENCLOSURES SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 1 HOUR WHERE CONNECTING LESS THAN 4 STORIES. THE RATING SHALL NOT BE LESS THAN THE FLOOR ASSEMBLY PENETRATED, BUT NEED NOT EXCEED 2 HOURS

A SHAFT ENCLOSURE THAT DOES NOT EXTEND TO THE UNDERSIDE OF THE ROOF SHEATHING, DECK OR SLAB OF THE BUILDING SHALL BE ENCLOSED AT THE TOP WITH CONSTRUCTION OF THE SAME FIRE RESISTANCE RATING AS THE TOPMOST FLOOR PENETRATED BY THE SHAFT, BUT NOT LESS THAN THE FIRE-RESISTANCE RATING REQUIRED FOR THE SHAFT ENCLOSURE.

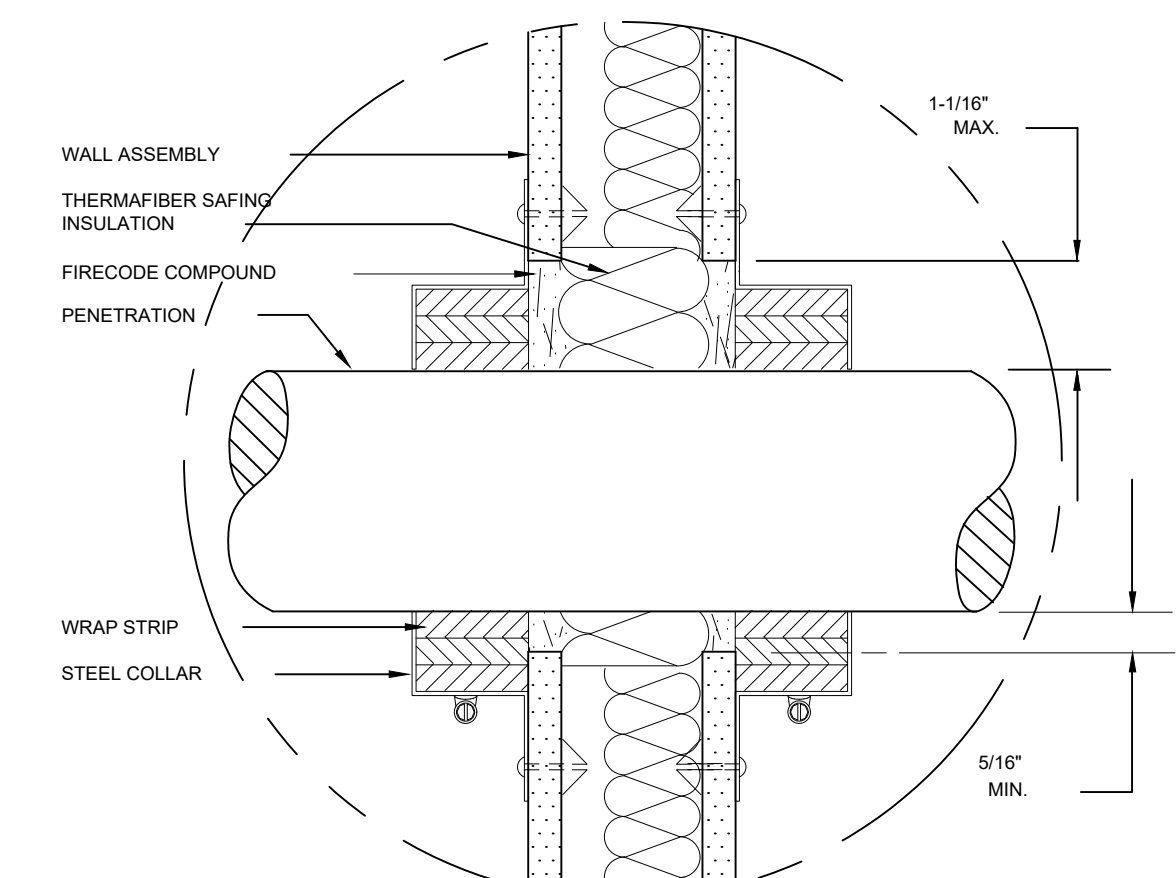
(R-3) OCCUPANCIES SHALL BE PERMITTED TO HAVE ONE EXIT OR ACCESS TO A SINGLE EXIT.

GROUP (R) MAX. 200 FT. WITHOUT SPRINKLER SYSTEM

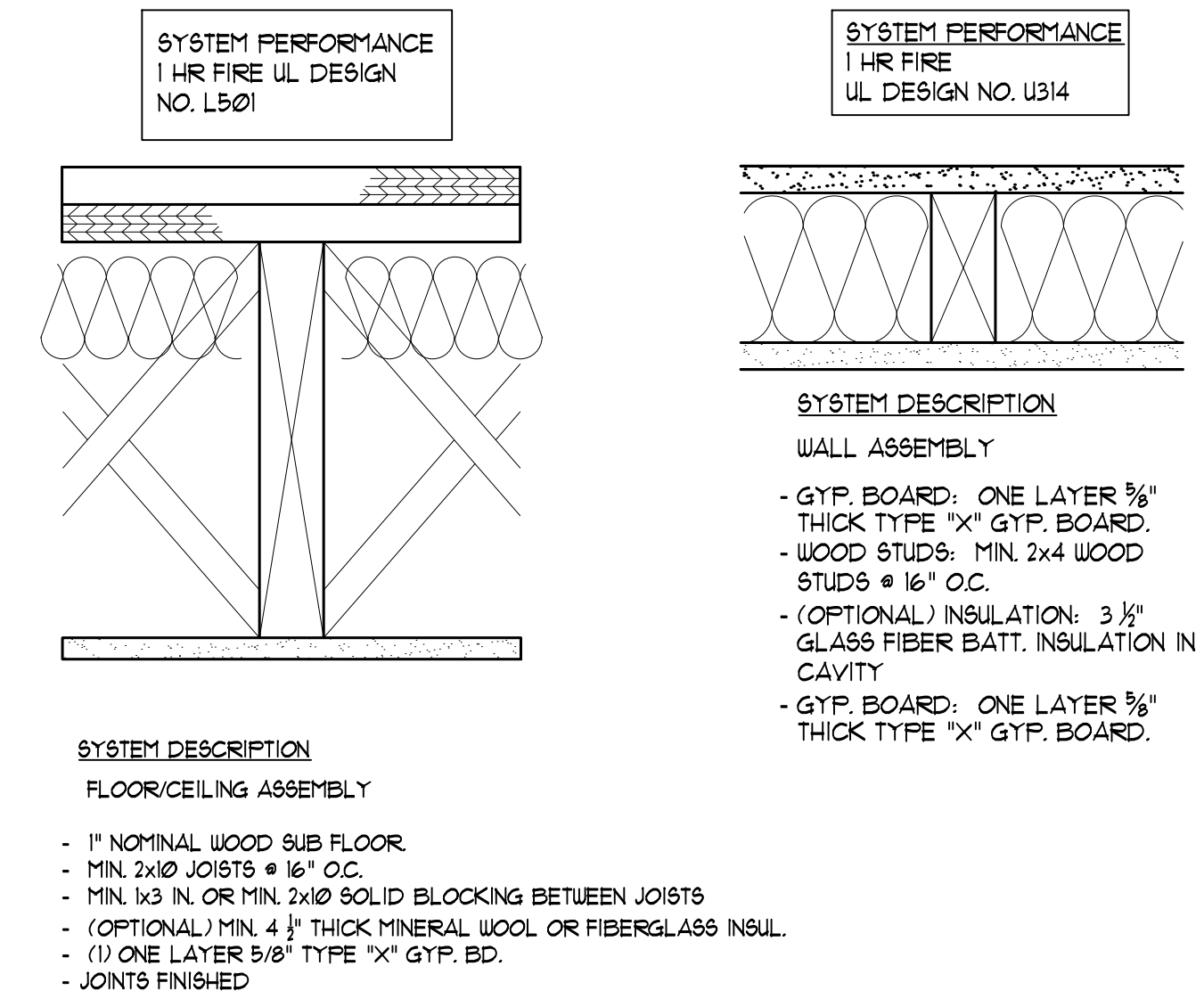


**TYP. PENETRATION THROUGH RATED FLOOR ASSEMBLY**

- SYSTEM DESCRIPTION F-C-1069**
- 1. FLOOR/CEILING ASSEMBLY:**
- A. FLOORING SYSTEM: 3/4" PLYWOOD
  - B. WOOD JOIST: NOM. 2" X 12" LUMBER JOIST.
  - C. CEILING SYSTEM: 2 LAYER OF 5/8" GYPSUM WALLBOARD, PER UL DESIGN.
- 2. METALLIC PIPE:**
- A. STEEL PIPE: 8" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.
  - B. IRON PIPE: 8" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
  - C. CONDUIT: 4" DIAMETER (OR SMALLER) ELECTRICAL METALLIC TUBING (EMT) OR STEEL CONDUIT.
  - D. COPPER TUBING: 4" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
  - E. COPPER PIPE: 4" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. ANNULAR SPACE FROM MINIMUM 0" TO MAXIMUM 1/8".
- 3. FORMING AND FIRE STOP MATERIALS:**
- A. FORMING MATERIAL (OPTIONAL): FOAM BACKER ROD PACKED INTO OPENING AS A PERMANENT FORM.
  - B. TYPE 1A: MINIMUM 1/2" THICK SEALANT APPLIED WITHIN THE ANNULUS, FLUSH WITH THE TOP OF THE FLOOR AND BOTTOM OF THE CEILING ASSEMBLIES. ADDITIONAL SEALANT TO BE APPLIED SUCH THAT A MINIMUM 1/2" CROWN IS FORMED AROUND THE PENETRATING ITEM.



**TYP. PENETRATION THROUGH RATED WALL ASSEMBLY**

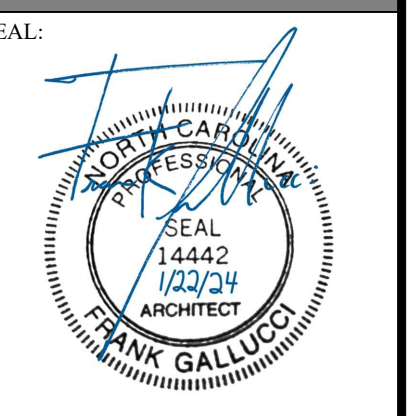


**1 RATED ASSEMBLIES**  
NTS.



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**NEW APARTMENTS**  
10 S. MAIN ST.  
WENDELL, N.C. 27591

**REVISION/ISSUE**

|                      |
|----------------------|
| 1-22-2024_PERMIT SET |
|----------------------|

DATE: 1-22-2024  
DRAWN BY: JFG  
JOB NUMBER: 23-67

CODE ANALYSIS, LIFE SAFETY LEGEND, AND RATED ASSEMBLIES

SHEET:  
**LS-1**







**PROJECT INFORMATION**

THE BUILDING SHALL BE IN COMPLIANCE WITH THE MOST RECENT VERSION OF THE FOLLOWING NORTH CAROLINA EDITION CODES, WHERE APPLICABLE TO THE SCOPE OF WORK:

- 2018 BUILDING CODE
- 2018 EXISTING BUILDING CODE
- 2018 ENERGY CONSERVATION CODE
- 2018 FIRE CODE
- 2018 FUEL GAS CODE
- 2018 MECHANICAL CODE
- 2018 PLUMBING CODE
- 2020 ELECTRIC CODE
- 2009 ICC/ANSI A117.1

**SCOPE OF WORK:**  
THIS BUILDING IS AN EXISTING 2 STORY MASONRY AND WOOD STRUCTURE, PREVIOUSLY A 2-STORY RESTAURANT (A-2 OCCUPANCY). THE NEW WORK ENCOMPASSES RENOVATING THE EXISTING FIRST FLOOR (ALTERATION LEVEL 3) FOR A NEW RESTAURANT (B OCCUPANCY, OCCUPANT LOAD LESS THAN 50) AND FITTING OUT THE EXISTING SECOND FLOOR FOR A NEW APARTMENT (R-3 OCCUPANCY, CHANGE OF USE). THE BUILDING WILL BECOME A SEPARATED MIXED USE (B/R-3) STRUCTURE. STRUCTURAL REMEDIATION WILL ALSO BE PERFORMED AS REQUIRED. REFER TO THESE DOCUMENTS FOR DETAILS ON THE FULL SCOPE OF WORK.

**CLASSIFICATION OF WORK:**  
CHANGE OF OCCUPANCY AND ALTERATION LEVEL 3 (IEBC CHAPTER 9 & 10)  
**EXISTING USE:**  
BUSINESS (A-2)  
**PROPOSED USE:**  
SEPARATED MIXED USE (B) AND (R-3)  
**CONSTRUCTION CLASSIFICATION (IBC 602):**  
TYPE VB (COMBUSTIBLE UNPROTECTED) - NON-SPRINKLERED

**BUILDING AREA CALCULATION**

|                                |
|--------------------------------|
| 1F-RESTAURANT SPACE: 1160 SF.  |
| 1F-STAIR ACCESS TO 2F: 62 SF.  |
| TOTAL: APPROX. 1222 SF.        |
| 2F-CORRIDOR/CHASE: 112 SF.     |
| 2F-APARTMENT 200: 561 SF.      |
| 2F-APARTMENT 201: 536 SF.      |
| TOTAL: APPROX. 1215 SF.        |
| GRAND TOTAL: APPROX. 2,437 SF. |

**CHANGE OF OCCUPANCY (NCEBC CHAPTER 10)**

**STRUCTURAL (1001.1) GRAVITY LOADS**  
BUILDINGS OR PORTIONS SUBJECT TO A CHANGE IN OCCUPANCY WHERE SUCH CHANGE IN THE NATURE OF THE OCCUPANCY RESULTS IN HIGHER UNIFORM OR CONCENTRATED LOADS BASED ON TABLE 1607.1 OF THE IBC, SHALL COMPLY WITH GRAVITY LOAD PROVISIONS OF THE IBC.  
**EXCEPTION 1:** STRUCTURAL ELEMENTS WHOSE STRESS IS NOT INCREASED BY MORE THAN 10 PERCENT

**ELECTRICAL (1008.3) SERVICE UPGRADE**  
WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED SUCH THAT THE NEW LOAD REQUIRES AN INCREASE IN SERVICE, THE ELECTRICAL SERVICE SHALL BE UPGRADED TO MEET THE REQUIREMENTS OF NFPA 70 FOR THE NEW OCCUPANCY.

**ELECTRICAL (1008.4) NUMBER OF ELECTRICAL OUTLETS**  
WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED, THE NUMBER OF OUTLETS SHALL COMPLY WITH NFPA 70 FOR THE NEW OCCUPANCY.

**MECHANICAL (1009.1)**  
WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED SUCH THAT THE NEW OCCUPANCY IS SUBJECT TO DIFFERENT KITCHEN EXHAUST REQUIREMENTS OR TO INCREASED MECHANICAL VENTILATION REQUIREMENTS IN ACCORDANCE WITH THE IMC, THE NEW OCCUPANCY SHALL COMPLY WITH THE RESPECTIVE IMC PROVISIONS

**PLUMBING (1010.1) INCREASED DEMAND**  
WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED SUCH THAT THE NEW OCCUPANCY IS SUBJECT TO INCREASED OR DIFFERENT PLUMBING FIXTURE REQUIREMENTS OR TO INCREASED WATER SUPPLY REQUIREMENTS IN ACCORDANCE WITH IPC, THE NEW OCCUPANCY SHALL COMPLY WITH THE INTENT OF THE RESPECTIVE IPC PROVISIONS.

**COMPLIANCE WITH CHAPTER 9 (1021.1)**  
WHERE ALTERATION WORK IS REQUIRED BY THE CHANGE OF OCCUPANCY CLASSIFICATION, THE REQUIREMENTS OF CHAPTER 9 SHALL BE APPLICABLE THROUGHOUT THE BUILDING FOR THE MOST RESTRICTIVE OCCUPANCY CLASSIFICATION.

**TABLE 1022.1 SPRINKLER HAZARD CATEGORY**

|   |
|---|
| EXISTING USE CLASSIFICATION A-2: RELATIVE HAZARD: 2 |
| PROPOSED USE CLASSIFICATION R-3: RELATIVE HAZARD: 6 |

1. WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY, THERE IS NO REQUIREMENT TO INSTALL AN AUTOMATIC FIRE SUPPRESSION SYSTEM

**SECTION 1022.2 FIRE ALARM AND DETECTION SYSTEM AND CO ALARM SYSTEM**

WHEN A CHANGE IN OCCUPANCY OCCURS AND THERE IS A DIFFERENT FIRE PROTECTION THRESHOLD REQUIREMENT IN CHAPTER 9, THE FIRE ALARM AND DETECTION SYSTEM IS TO BE PROVIDED BASED ON THE NEW OCCUPANCY WHERE THE CHANGE IN OCCUPANCY OCCURS

**TABLE 102.4 MEANS OF EGRESS HAZARD CATEGORY**

|   |
|---|
| EXISTING USE CLASSIFICATION A-2: RELATIVE HAZARD: 3 |
| PROPOSED USE CLASSIFICATION R-3: RELATIVE HAZARD: 4 |

1. WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY, EXISTING ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF 905 FOR THE NEW OCCUPANCY.

**TABLE 102.5 HEIGHTS AND AREAS HAZARD CATEGORY**

|   |
|---|
| EXISTING USE CLASSIFICATION A-2: RELATIVE HAZARD: 2 |
| PROPOSED USE CLASSIFICATION R-3: RELATIVE HAZARD: 4 |

1. WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY, THE HEIGHT AND AREA OF THE EXISTING BUILDING SHALL BE DEEMED ACCEPTABLE.

**TABLE 102.6 EXPOSURE OF EXTERIOR WALLS CATEGORY**

|   |
|---|
| EXISTING USE CLASSIFICATION A-2: RELATIVE HAZARD: 3 |
| PROPOSED USE CLASSIFICATION R-3: RELATIVE HAZARD: 3 |

1. WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY, EXISTING EXTERIOR WALLS, INCLUDING OPENINGS, SHALL BE ACCEPTED.

**ALTERATION LEVEL 3 (NCEBC CHAPTER 9)**

**(804.4.2) SMOKE ALARMS**  
INDIVIDUAL SLEEPING UNITS IN ANY WORK AREA IN GROUP R SHALL BE PROVIDED WITH SMOKE ALARMS IN ACCORDANCE WITH SECTION 907.12.1 OF THE IBC. SMOKE ALARMS FOR GROUP R OCCUPANCY ARE PERMITTED TO BE RADIO FREQUENCY TYPE APPLIANCES AS ALLOWED AND INSTALLED BY NFPA 72.

**(804.4.3) CARBON MONOXIDE ALARMS**  
INDIVIDUAL SLEEPING UNITS AND INDIVIDUAL DWELLING UNITS IN GROUP R SHALL BE PROVIDED WITH CARBON MONOXIDE ALARMS IN ACCORDANCE WITH SECTION 915 OF THE IBC, EXCEPT THAT THE CARBON MONOXIDE ALARMS SHALL BE ALLOWED TO BE SOLELY BATTERY OPERATED.

**(805.6) DEAD END CORRIDORS**  
DEAD END CORRIDORS IN ANY WORK AREA SHALL NOT EXCEED 35 FEET.

**(805.7) MEANS OF EGRESS LIGHTING**  
MEANS OF EGRESS LIGHTING SHALL BE IN ACCORDANCE WITH THIS SECTION

**(805.8) EXIT SIGNS**  
EXIT SIGNS SHALL BE IN ACCORDANCE WITH THIS SECTION, AS APPLICABLE.

**(805.9) HANDRAILS**  
THE REQUIREMENTS OF SECTIONS 805.9.1 AND 805.9.2 SHALL APPLY TO HANDRAILS FROM THE WORK AREA FLOOR TO, AND INCLUDING, THE LEVEL OF EXIT DISCHARGE.

**805.9.1 MINIMUM REQUIREMENT**  
EVERY REQUIRED EXIT STAIRWAY THAT IS PART OF THE MEANS OF EGRESS FOR ANY WORK AREA AND THAT HAS THREE OR MORE RISERS AND IS NOT PROVIDED WITH AT LEAST ONE HANDRAIL SHALL BE PROVIDED WITH HANDRAILS FOR THE FULL LENGTH OF THE STAIRWAY ON AT LEAST ONE SIDE.

**(806.2) ACCESSIBILITY ALTERATIONS AFFECTING AN AREA OF PRIMARY FUNCTION**  
WHERE AN ALTERATION AFFECTS THE ACCESSIBILITY TO A, OR CONTAINS AN AREA OF PRIMARY FUNCTION, THE ROUTE TO THE PRIMARY FUNCTION AREA SHALL BE ACCESSIBLE. THE ACCESSIBLE ROUTE TO THE PRIMARY FUNCTION AREA SHALL INCLUDE TOILET AND DRINKING FOUNTAINS SERVING THE AREA OF PRIMARY FUNCTION.

**EXCEPTION 1:** THE COSTS OF PROVIDING THE ACCESSIBLE ROUTE ARE NOT REQUIRED TO EXCEED 20 PERCENT OF THE COSTS OF THE ALTERATIONS AFFECTING THE AREA OF PRIMARY FUNCTION.

**NORTH CAROLINA BUILDING CODE**

**REQUIRED SEPARATION OF OCCUPANCIES (TABLE 508.4):** MIN. 2-HR BETWEEN (B) AND (R-3) USE, NON-SPRINKLERED.

**INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY: (TABLE 803.1.1)**

| GROUP | NON-SPRINKLERED                 |           |                           |
|-------|---------------------------------|-----------|---------------------------|
|       | EXIT ENCL. AND EXIT PASSAGEWAYS | CORRIDORS | ROOMS AND ENCLOSED SPACES |
| B     | A                               | B         | C                         |
| R-3   | C                               | C         | C                         |

**OCCUPANCY LOAD: (1004.1.2)**

| BUSINESS USE (RESTAURANT LESS THAN 50 OCCUPANTS) |          |      |                     |               |
|--|----------|------|---------------------|---------------|
| AREA   | FUNCTION | AREA | EGRESS BASIS        | OCCUPANT LOAD |
| DINING/WAITING AREA                              | ASSEMBLY | 264  | 1 OCC/15 SF. NET    | 18            |
| KITCHEN/PREP AREA                                | KITCHEN  | 558  | 1 OCC/200 SF. GROSS | 3             |
| OFFICE/HOSTESS AREA                              | BUSINESS | 11   | 1 OCC/100 SF. GROSS | 1             |
| TOTAL  |          |      |                     | 22            |

**NOTE:** CALCULATED OCCUPANT LOAD IS 22. SEATING WILL BE PROVIDED FOR MAXIMUM 22 OCCUPANTS, WITH (3) STAFF, FOR A TOTAL MAXIMUM NOT TO EXCEED 25 OCCUPANTS.

**RESIDENTIAL USE**

| AREA          | FUNCTION    | AREA   | EGRESS BASIS      | OCCUPANT LOAD |
|---------------|-------------|--------|-------------------|---------------|
| APARTMENT 200 | RESIDENTIAL | 561 SF | 200 SF(GROSS)/OCC | 3             |
| APARTMENT 201 | RESIDENTIAL | 536 SF | 200 SF(GROSS)/OCC | 3             |
| TOTAL         |             |        |                   | 6             |

**EGRESS WIDTH (1005.3.2):** 25 OCCUPANTS BUSINESS (SEE EGRESS PLAN)  
6 OCCUPANTS RESIDENTIAL (SEE EGRESS PLAN)

**MIN. CORRIDOR WIDTH (1002.2):** 44" MIN.  
36" MIN. (OCC. LOAD LESS THAN 50)

**DOOR SWING (1010.1.2.1):** DOORS SHALL SWING IN THE DIRECTION OF TRAVEL WHERE SERVING AN OCCUPANT LOAD OF 50 OR MORE (FROM THE ROOM THEY SERVE)

**MIN. DOOR WIDTH (1010.1.1):** 32" MIN. CLEAR BETWEEN FACE OF DOOR AND STOP (36" DOORS PROVIDED)

**PANIC HARDWARE (1010.1.10):** NOT REQUIRED FOR (B OR R-3) USE

**FIRE PROTECTION SYSTEMS:**  
MANUAL FIRE ALARM (907.2.2): (REQUIRED) NO (PROVIDED) NO  
SPRINKLER SYSTEM (903): GROUP B AND R-3 (REQUIRED) NO (PROVIDED) NO  
PORTABLE FIRE EXTINGUISHER (906): (REQUIRED) YES (PROVIDED) YES

**THROUGH-PENETRATION FIRESTOP SYSTEM (1143.1.2)**  
THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM E814 OR UL1479, WITH A MIN. POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER. THE SYSTEM SHALL HAVE AN F RATING/T RATING OF NOT LESS THAN 1 HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED.

WALLS, PARTITIONS, AND FLOOR/CEILING ASSEMBLIES SEPARATING DWELLING UNITS OR BETWEEN A DWELLING UNIT AND A PUBLIC OR SERVICE AREA SHALL HAVE A SOUND TRANSMISSION CLASS (STC) OF NOT LESS THAN 50

**4202 SEPARATION WALLS.** WALLS SEPARATING DWELLING UNITS IN THE SAME BUILDING, WALLS SEPARATING SLEEPING UNITS IN THE SAME BUILDING AND WALLS SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS FIRE PARTITIONS IN ACCORDANCE WITH SECTION 708.

**4203 HORIZONTAL SEPARATION.** FLOOR ASSEMBLIES SEPARATING DWELLING UNITS IN THE SAME BUILDING, FLOOR ASSEMBLIES SEPARATING SLEEPING UNITS IN THE SAME BUILDING AND FLOOR ASSEMBLIES SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS HORIZONTAL ASSEMBLIES IN ACCORDANCE WITH SECTION 711.

**708.3 FIRE PARTITIONS FIRE-RESISTANCE RATING.** FIRE PARTITIONS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR.

**713.4 SHAFT ENCLOSURES FIRE-RESISTANCE RATING.** SHAFT ENCLOSURES SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 1 HOUR WHERE CONNECTING LESS THAN 4 STORIES. THE RATING SHALL NOT BE LESS THAN THE FLOOR ASSEMBLY PENETRATED, BUT NEED NOT EXCEED 2 HOURS

**1006.3.2(4) SINGLE EXITS** (R-3) OCCUPANCIES SHALL BE PERMITTED TO HAVE ONE EXIT OR ACCESS TO A SINGLE EXIT.

**1012.1 EXIT ACCESS TRAVEL DISTANCE** GROUP (R) MAX. 200 FT. WITHOUT SPRINKLER SYSTEM

**PLUMBING FIXTURE CALCULATION (IPC 2018):**

FOR BUSINESS USE AT 25 (PER OCC. LOAD ABOVE)

FROM TABLE 403.1 (BUSINESS USE)

WATER CLOSETS/URINALS: 1 UNISEX (SEE EXC. BELOW) 1 PROVIDED

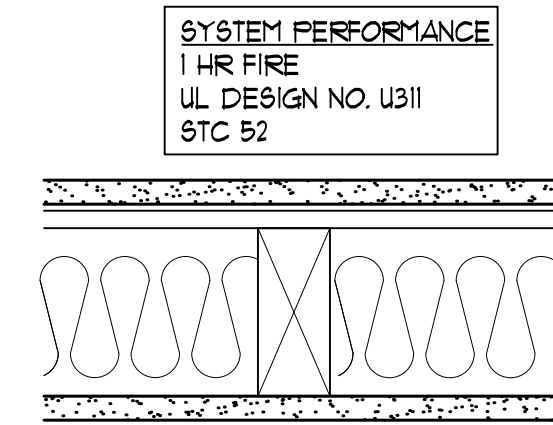
LAVATORIES REQUIRED: 1 UNISEX (SEE EXC. BELOW) 1 PROVIDED

DRINKING FOUNTAIN: NOT REQUIRED WITH OCC. LOAD OF 25 OR FEWER. SEE ALSO SECTION 410.4 BELOW.

SERVICE SINK: 1 REQUIRED 1 PROVIDED

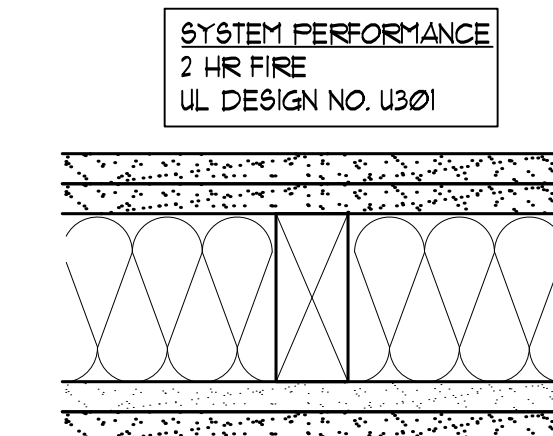
**403.2 SEPARATE FACILITIES.** EXCEPTION 2: SEPARATE FACILITIES SHALL NOT BE REQUIRED IN STRUCTURES OR SPACES WITH A TOTAL OCCUPANT LOAD, INCLUDING BOTH EMPLOYEES AND CUSTOMERS, OF 25 OR FEWER.

**410.4 DRINKING FOUNTAIN SUBSTITUTION.** WHERE RESTAURANTS PROVIDE DRINKING WATER FREE OF CHARGE, DRINKING FOUNTAINS SHALL NOT BE REQUIRED IN THOSE ESTABLISHMENTS



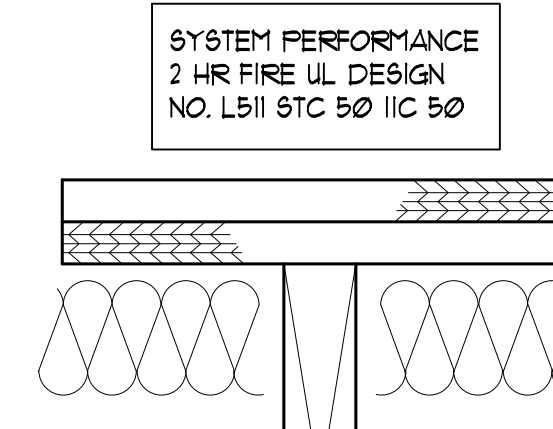
**SYSTEM PERFORMANCE**  
1 HR FIRE  
UL DESIGN NO. U311  
STC 52

**SYSTEM DESCRIPTION**  
WALL ASSEMBLY  
- GYP. BOARD: ONE LAYER 5/8" THICK TYPE "X" GYP. BOARD.  
- 25 GA. RESILIENT CHANNEL AT 24" O.C.  
- WOOD STUDS: MIN. 2x4 WOOD STUDS @ 16" O.C.  
- INSULATION: 3 1/2" GLASS FIBER SOUND BATT. INSULATION IN CAVITY  
- GYP. BOARD: ONE LAYER 5/8" THICK TYPE "X" GYP. BOARD.



**SYSTEM PERFORMANCE**  
2 HR FIRE  
UL DESIGN NO. U301

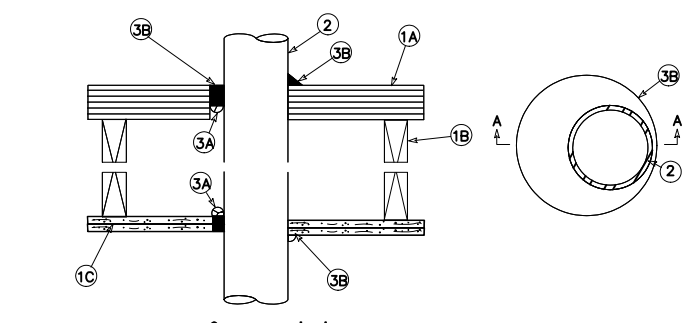
**SYSTEM DESCRIPTION**  
WALL ASSEMBLY  
- GYP. BOARD: TWO LAYERS 5/8" THICK TYPE "X" GYP. BOARD.  
- WOOD STUDS: MIN. 2x4 WOOD STUDS @ 16" O.C.  
- INSULATION: 3 1/2" GLASS FIBER BATT. INSULATION IN CAVITY  
- GYP. BOARD: TWO LAYERS 5/8" THICK TYPE "X" GYP. BOARD.



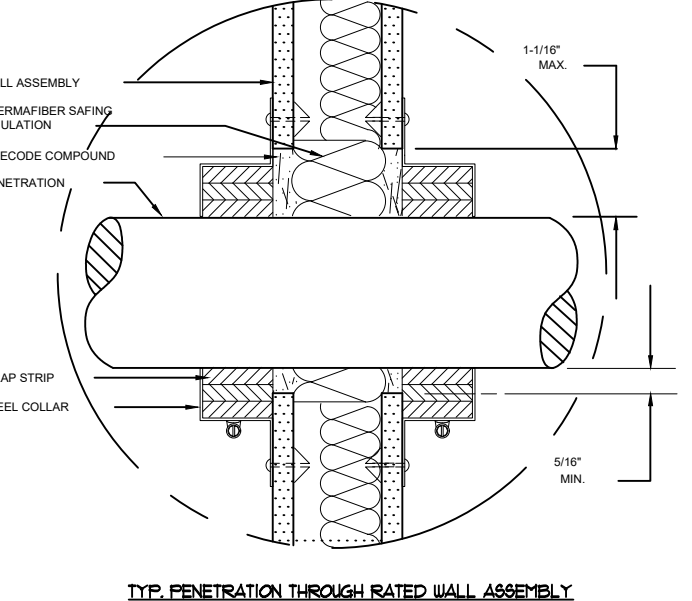
**SYSTEM PERFORMANCE**  
2 HR FIRE UL DESIGN  
NO. LB11 STC 50 IIC 50

**SYSTEM DESCRIPTION**  
DIMENSIONAL LUMBER


- 1" NOMINAL WOOD SUB FLOOR
- MIN. 2x10 JOISTS 16" O.C.
- MIN. 4" THICK MINERAL WOOL OR FIBERGLASS INSUL.
- (1) ONE LAYER 5/8" TYPE "X" GYP. BD.
- 1/8" RESILIENT CHANNEL, MIN 25 GAUGE CORROSION PROTECTED STEEL, SPACES MAX OF 24" O.C.
- (1) ONE LAYER 5/8" TYPE "X" GYP. BD.
- JOINTS FINISHED



**TYP. PENETRATION THROUGH RATED FLOOR ASSEMBLY.**  
SYSTEM DESCRIPTION: F-C-0849  
1. FLOOR/CEILING ASSEMBLY:  
A. FLOORING SYSTEM: 3/4" PL. WOOD  
B. USED: 2x10x16x12 1/2" LVL JOIST  
C. CEILING SYSTEM: 2 LAYER OF 5/8" GYPSUM WALLBOARD, PER UL DESIGN  
2. METALLIC PIPE:  
A. STEEL PIPE: 6" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.  
B. IRON PIPE: 8" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.  
C. CONDUIT: 4" DIAMETER (OR SMALLER) ELECTRICAL METALLIC TUBING (EMT) OR STEEL CONDUIT.  
D. COPPER TUBING: 4" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.  
E. COPPER PIPE: 4" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. ANNULAR SPACE FROM MINIMUM 6" TO MAXIMUM 18".  
3. FLOORING AND FIRE STOP MATERIALS:  
A. FLOORING MATERIAL (OPTIONAL): FOAM BACKER BLOCK PACKED INTO OPENING AS A PERMANENT FLOOR.  
B. TYPE UL MINIMUM 1/2" THICK SEALANT APPLIED WITHIN THE ANNULUS FLUSH WITH THE TOP OF THE FLOOR AND BOTTOM OF THE CEILING ASSEMBLY.  
ADDITIONAL SEALANT TO BE APPLIED SUCH THAT A FINISH 1/2" CROWN IS FORMED AROUND THE PENETRATING ITEM.




**1 RATED ASSEMBLIES**  
N.T.S.



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919-819-4635



**RESTAURANT AND APARTMENTS**  
103 W. ANDERSON STREET  
SELMA, NC 27576

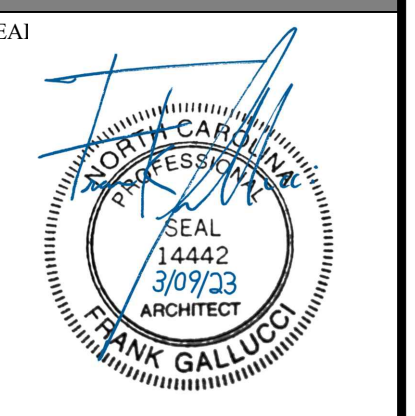
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|------------------------------------|-----------|
| 3-9-2023_PERMIT SET                |           |
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|                                    |           |
| DATE:                              | 3-29-2023 |
| DRAWN BY:                          | LR        |
| JOB NUMBER:                        | 22-97     |
| CODE ANALYSIS AND RATED ASSEMBLIES |           |
| SHEET:                             |           |
| <b>LS-1</b>                        |           |





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**RESTAURANT AND APARTMENTS**  
103 W. ANDERSON STREET  
SELMA, NC 27576

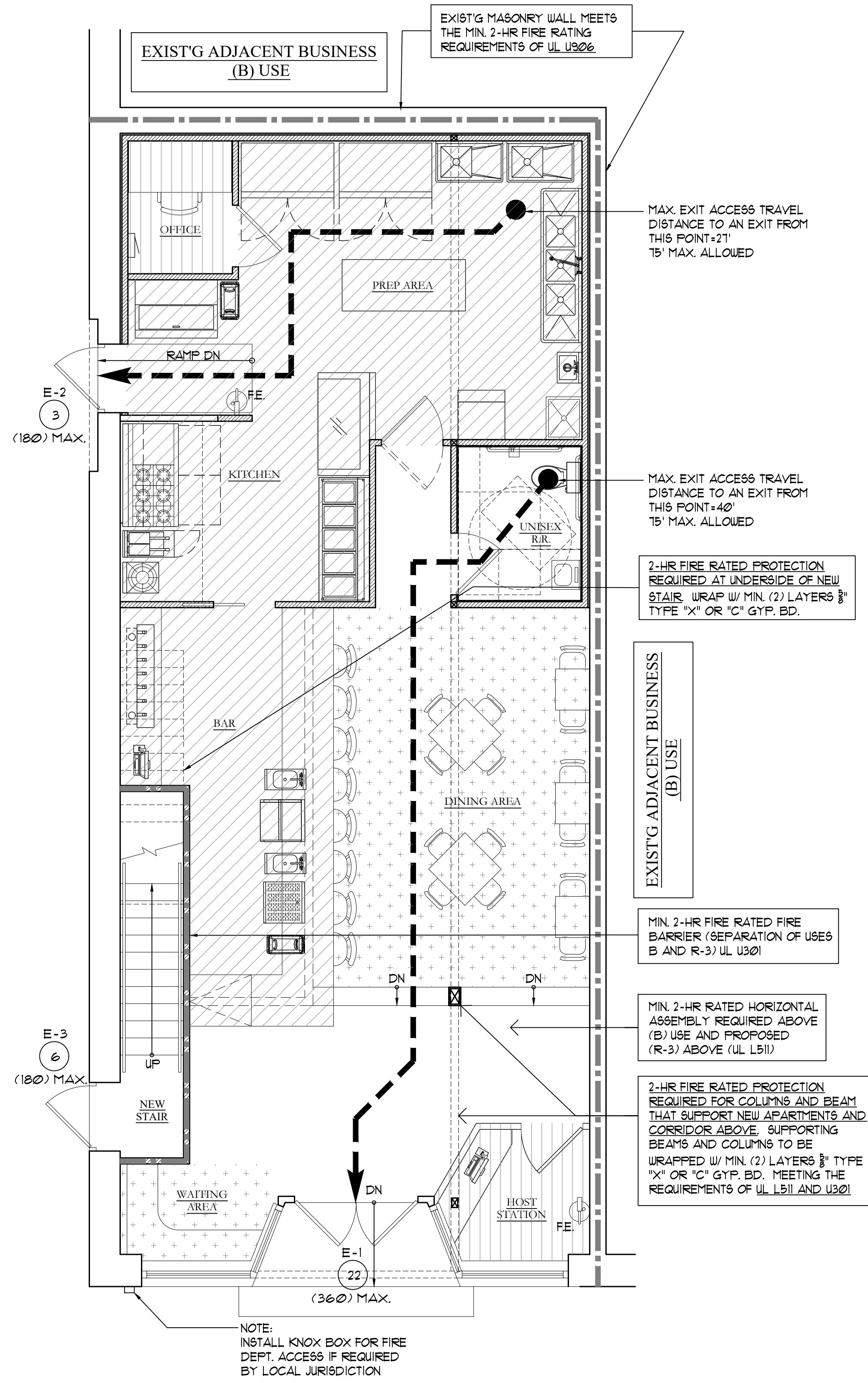
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3-9-2023\_PERMIT SET

DATE: 3-29-2023  
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JOB NUMBER: 22-97

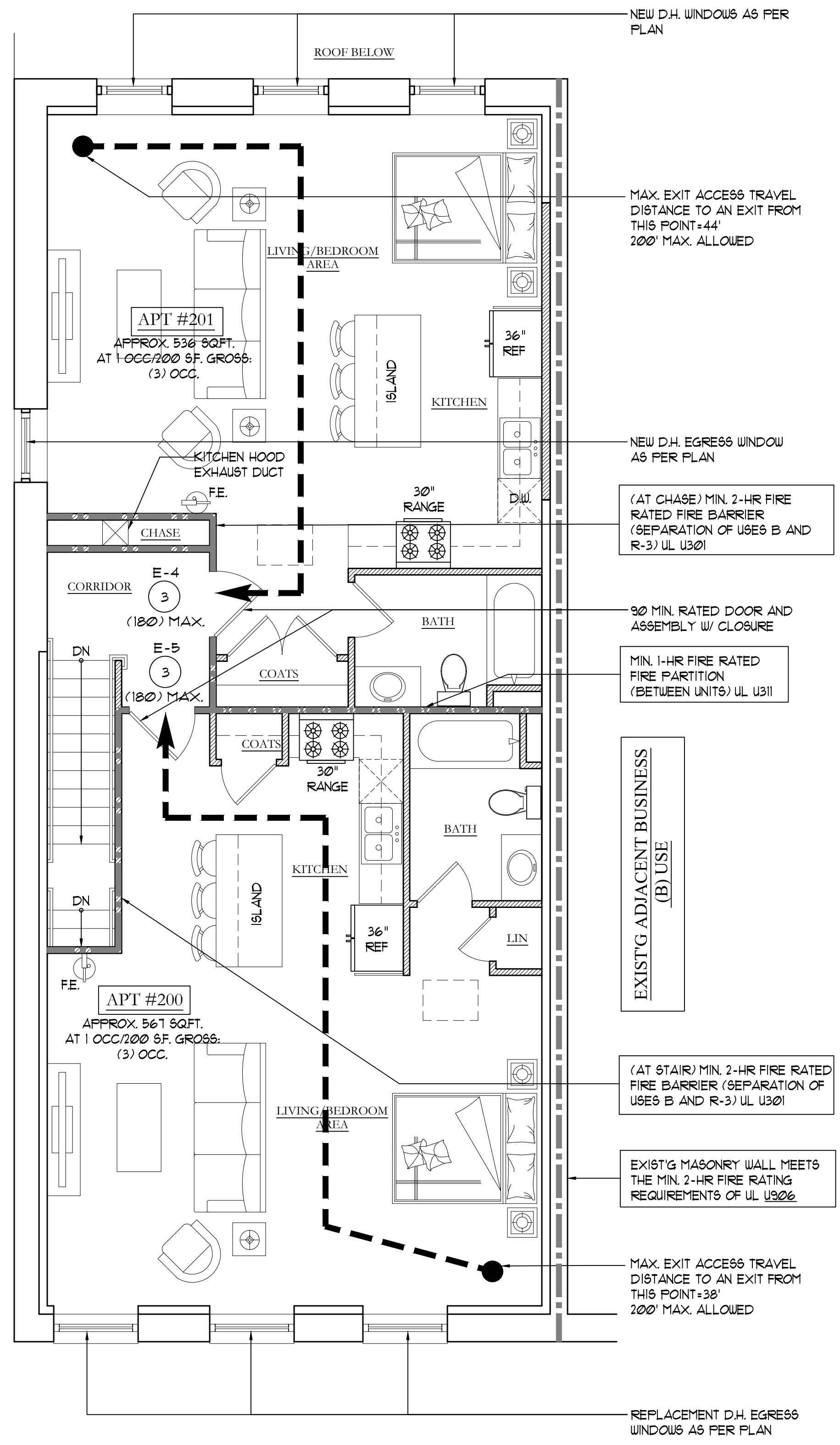
LIFE SAFETY PLANS

SHEET:

**LS-2**

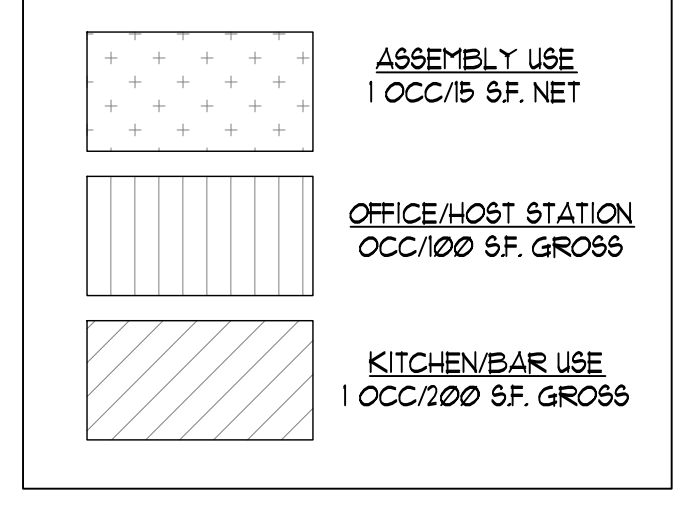


**1** FIRST FLOOR LIFE SAFETY PLAN  
1/4"=1'-0"



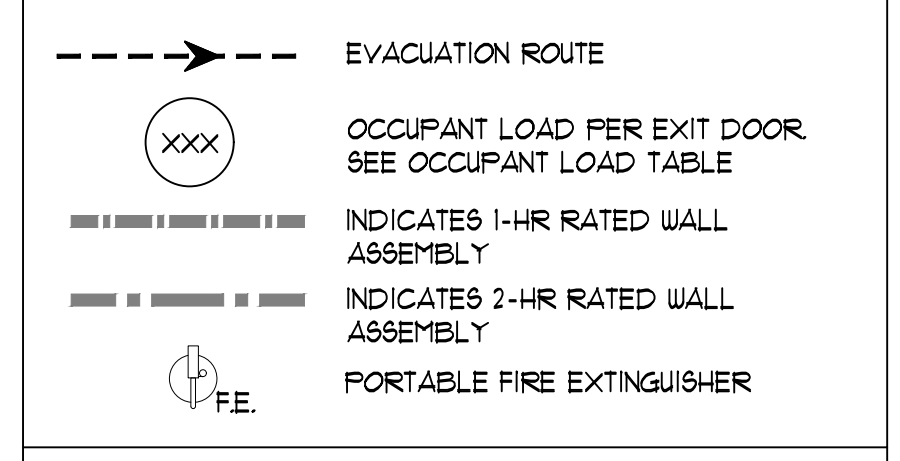
**2** SECOND FLOOR LIFE SAFETY PLAN  
1/4"=1'-0"

**LIFE SAFETY KEY**



NOTE: CALCULATED OCCUPANT LOAD IS 22. SEATING WILL BE PROVIDED FOR MAXIMUM 22 OCCUPANTS, WITH (3) STAFF, FOR A TOTAL MAXIMUM NOT TO EXCEED 25 OCCUPANTS.

**LIFE SAFETY LEGEND**



| EXIT CAPACITY |               |  |                |
|---------------|---------------|--|----------------|
| EXIT #        | OCCUPANT LOAD | MIN. WIDTH REQUIRED (OCC X 0.2) = UNIT WIDTH, INCHES | PROVIDED WIDTH |
| E-1           | 22            | 4.4  | 72             |
| E-2           | 3             | 0.6  | 36             |
| E-3           | 6             | 1.2  | 36             |
| E-4           | 3             | 0.6  | 36             |
| E-5           | 3             | 0.6  | 36             |





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SEAL:

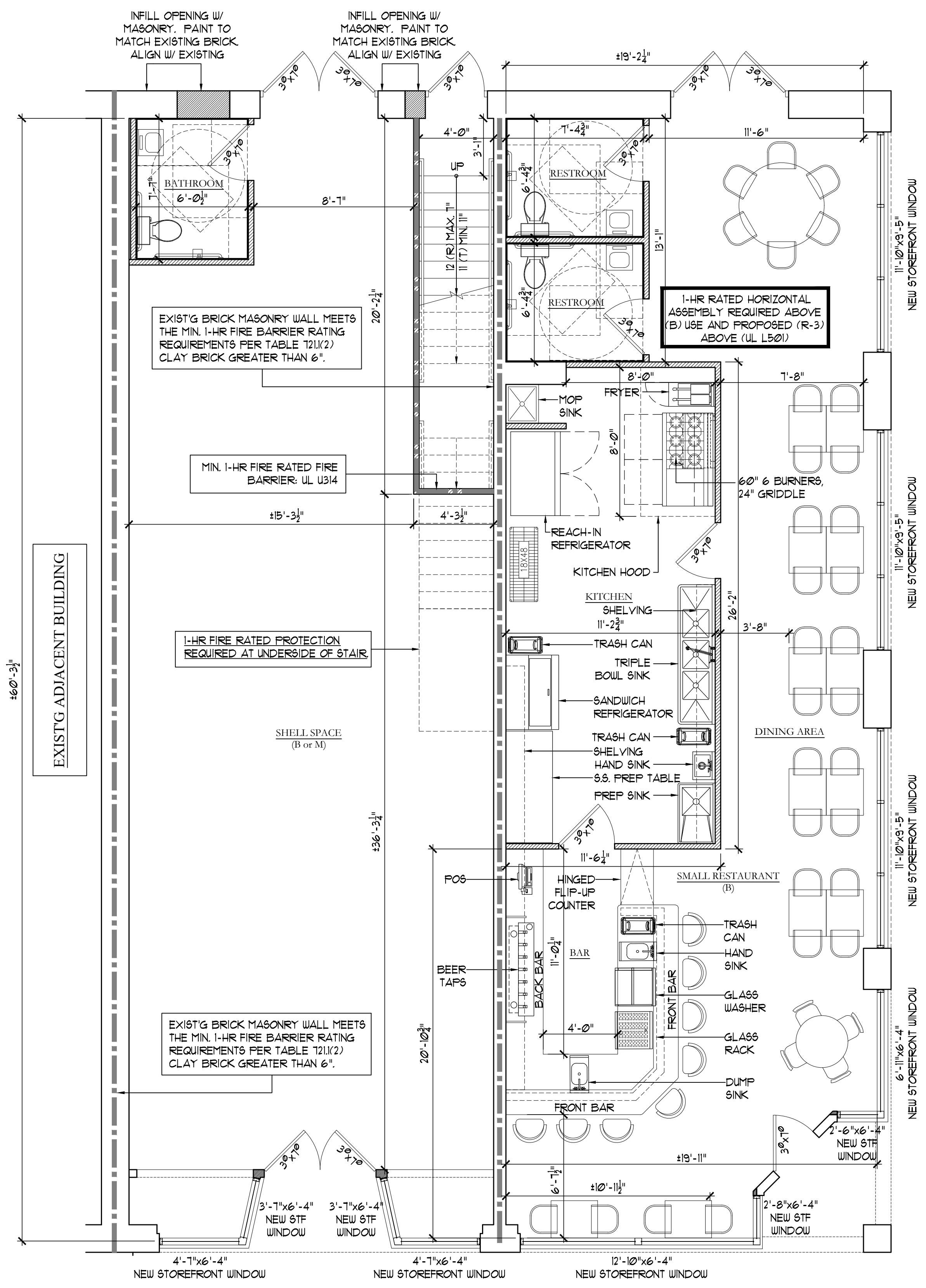
**MIXED USE BUILDING**  
103 & 105 E. Pine St.  
Pine Level, NC 27569

| REVISION/ISSUE |
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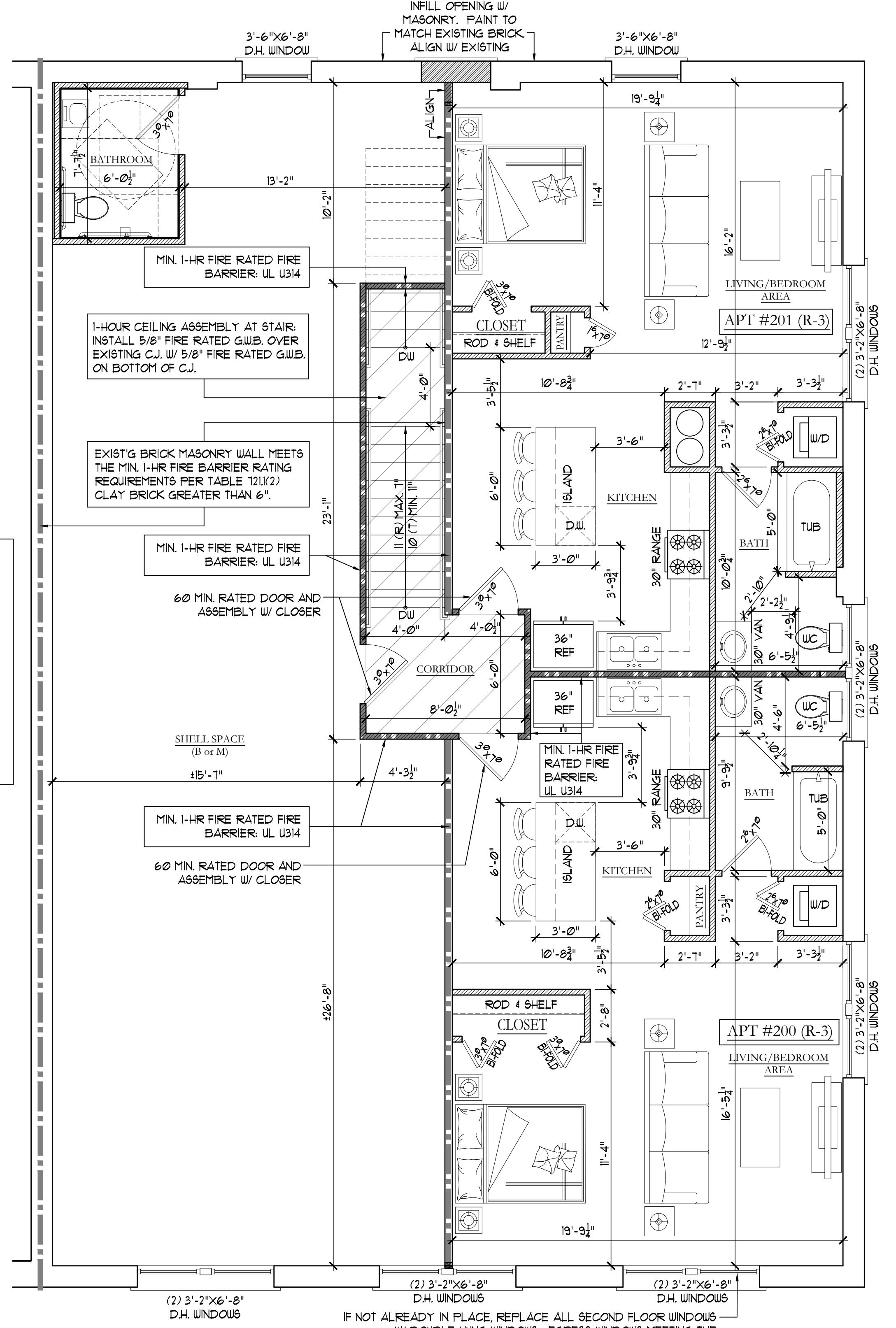
DATE: 03-13-2024  
DRAWN BY: LR  
JOB NUMBER: 24-19

DESIGN FLOOR PLANS  
SHEET:

**A-1**



**1 FIRST FLOOR PLAN**  
1/4" = 1'-0"



**2 SECOND FLOOR PLAN**  
1/4" = 1'-0"