



3-0=

3-0

GENERAL NOTES:

- EXISTING BUILDING IS 2-STORIES WITH A FULL BASEMENT.

  PROPOSED WORK AREA IS SECOND FLOOR (NOT OWNER OCCUPIED BACK-OF-HOUSE SPACE)

  EXISTING FLOOR PLATE GROSS SQUARE FOOTAGE IS 2,350 SF

  TENANT SQUARE FOOTAGE IS 1,425 SF

  EXISTING BUILDING HAS A SUPERVISED AUTOMATIC SPRINKLER SYSTEM VERIFY THAT SYSTEM MEETS NFPA 13 STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS.

  EXISTING BUILDING HAS A FIRE ALARM SYSTEM VERIFY CONFORMANCE WITH NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE.

  EXISTING BUILDING HAS A EMERGENCY LIGHTS VERIFY CONFORMANCE WITH NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS.

  33 2 FT. X 6 FT YOGA MATS SHOWN IN STUDIO SPACE, ARRANGED AS ANTICIPATED.

NEW 1 HR. FIRE RATED PARTITION INFILL FROM 2X4'S AND 5/8" TYPE X GWB EACH SIDE

- REMOVE EXISTING FIXED DOOR AND CASING AND INFILL WITH MATCHING PARTITION.

### Code Review - NFPA 101 (Life Safety) 2009

mbly Use" and shall meet requireme Single Occupancy".

n Assembly (A-3) Occupancy and the prinklered. its of Chapter 13 Existing Assembly Occupancy.

### Chapter 7 - Means of Egress

Section 6.1.2 - This tenant space is classified as "A-3, Assemble Section 6.1.14.1 - This occupancy shall be classified as a "Sin Table 6.1.14.4.1 - 2 Hour fire separation is required between  $\mu$  reduced to a 1 Hour fire separation because the building is spr Assembly (A-2) tenant on the first floor. This is

**BARBA+WHEELOCK** ARCHITECTURE SUSTAINABILITY PRESERVATION

500 CONGRESS STREET PORTLAND, MAINE 04101 207 772 2722

WWW.BARBAWHEELOCK.COM

Section 7.1.3.2.1(1) - Exits connecting three stories or less shall be Section 7.1.3.2.1(4) - All doors connecting to exit stairs shall have space within the back exit stair does not have a closer or hardware Section 7.1.3.2.1(5)(c) Existing door to mechanical space off of renon-fule-fired mechanical equipment; no combustible materials shat Section 7.2.1 - Doors shall comply with this section (including self Section 7.2.2.1.1(b) - Minimum stair width is 36 inches, max. rise landings is 12 feet. Existing stairs comply.

Section 7.2.2.4.1.2(2) - Existing stairs shall have handrails within 2 Section 7.2.2.4.2 - Existing handrails shall be mounted between Section 7.2.2.4.5.2(3) - Existing guards shall be not less than 30" I Table 7.3.1.2 - Occupant Load: see Egress Plans.

Assembly spaces: 1 person per 15 square feet Business use: 1 person per 100 square feet of rear exit stair needs to be fire rated and: the space shall only be used for is shall be stored; and the building is protected with an auto sprinkler system. self closing devices, section 7.2.1.8).

x. riser is 8", min. tread is 9 inches, min. headroom is 6'-8", max. height between

CYNTHIA A WHEELOCK

No. 3658

Table 8.2.1.2 - Construction Type shall be Type III (200)
Section 8.2.2.3 - Fire and smoke barriers shall be continuous from outside wall to outside wall or from fire barrier to fire barrier, including continuity through all concealed spaces, such as those found above ceilings and other interstitial spaces.
Section 8.2.3.2 - Fire resistance rated floors shall be classified as unrestrained in accordance with NFPA 251, Standard Methods of Tests of Fire Endurance of Building Construction and Materials; ASTM E 119; or UL 263, Standards for Fire Tests of Building Construction and Materials.
Section 8.3.1 - Door openings to exit stairs shall be protected by approved, listed, labeled fire door assemblies and fire window assemblies and their accompanying hardware, including all frames, closing devices, anchorage, and sills in accordance with NFPA 80 Standard for Fire Doors and Fire Windows.

Section 8.3.5.1 - Penetrations in fire rated partitions shall be fire-stopped according to ASTM E 814 Standard Test Method for Fire Tests of Through-Penetration Firestops.

ire-stopped according to ASTM E 814 *Standard Test Method for Fire Tests of Through* Through-Penetration Firestops.

Section 13.1.6 - Minimum Construction Requirements. Table 13.1.6 says with Type III (200) Construction that an Assembly occupancy of less than 300 is permitted one level above level of exit discharge. Assembly use is permitted on the second floor.

Section 13.1.7.1 - Occupant Load is set by Table 7.3.1.2 - Less Concentrated Use, without fixed seating shall be 15 net SF per occupant.

Section 13.2.2.4 - Locking devises complying with 7.2.1.5.4 are permitted if OL is less than 600. Panic hardware is only required if OL is greater than 100. The allowable OL is well less than 100, therefore panic hardware is not required.

Section 13.2.3.6.3 - Main Entrance/Exit shall be of a width that accommodated one-half of the total OL.

Section 13.2.3.6.3 - Main Entrance/Exit shall be of a width that accommodated one-half of the total OL.

Section 13.2.4.2 - Assembly Occupancies with OL of 600 or fewer shall have two separate means of egress.

Section 13.2.5.1.2 - A common path of travel shall be permitted for the first 75 feet from any point for OL of 50 or less.

Section 13.2.5.1.2 - Access and egress routes shall be permitted for the first 75 feet from any point for OL of 50 or less.

Section 13.2.5.4.2 - Access and egress routes shall be maintained so that any individual is able to move without undue hindrance, on personal initiative and at any time, from occupied positions to the exits.

Section 13.2.9 - Emergency Lighting shall be provided in accordance with Section 7.8. Existing illuminated exit signs are placed appropriately.

Section 13.3.5 - A portable fire extinguisher is required next to each exit door in accordance with 9.7.4.1. Two wall mounted fire extinguishers will need to be added.

# Code Review

conforming to IBC occupancy. from recently occupied surf shop - Mercantile

Section 303.1 - Alterations must be no less conforming to IBC that occupancy to a new yoga studio - Assembly occupancy.

Section 303.3 - Structural upgrades shall comply with requirement Section 303.6 - Alterations in existing buildings are nto subject to components of the means of egress shall be considered complying distinct hazard to life.

Section 310.7.1 - The small, two-story building does not have an not to upgrade the existing non-ADA-compliant toilet rooms as the struction. The do not constitute a

## Chapter 4 - Classification of Work

Section 401.3 - Occupancy and use as per IBC Chapter 3 shall be considered Group A-3, Assembly.
Section 404.1 - Alteration Level 2 - Reworking of doors. Work area does not exceed 50% aggregate area of the Level 3. Level 2 needs to meet requirements of Chapters 6 and 7.

Section 603.1 - Fire Protection - Alterations shall be done in a man Section 604.1 - Means of Egress - Repairs shall be done in a man Section 605.1 - Accessibility - ADA upgrades shall be made where Section 605.1.10 - Accessible toilet room is technically infeasible in Section 605.1.11 - Dressing room may be uni-sex.

Section 605.1.13 - Thresholds and building entries shall be ADA composed by Section 605.2.1 - Toilet rooms shall not be required to be on accessible of the cost of the alternation affecting the area of primary function in Section 606.2 - Structural upgrades shall conform to the load required to the load required to section 606.2 - Structural upgrades shall conform to the load required to section 606.2 - Structural upgrades shall conform to the load required to section 606.2 - Structural upgrades shall conform to the load required to section 606.2 - Structural upgrades shall conform to the load required to section 606.2 - Structural upgrades shall conform to the load required to section 606.2 - Structural upgrades shall conform to the load required to section 606.2 - Structural upgrades shall conform to the load required to section 606.2 - Structural upgrades shall conform to the load required to section 606.2 - Structural upgrades shall conform to the load required to section 606.2 - Structural upgrades shall conform to the load required to section 606.2 - Structural upgrades shall conform to the load required to section 606.2 - Structural upgrades shall conform to the load required to section 606.2 - Structural upgrades shall conform to the load required to section 606.2 - Structural upgrades shall conform to the load required to section 606.2 - Structural upgrades shall conform to the section 606.2 - Structural upgrades shall conform to the section 606.2 - Structural upgrades shall conform to the section 606.2 - Structural upgrades shall conform to the section 606.2 - Structural upgrades shall to section 606.2 - Structural upgrades shall to section 606.2 - Structural upgrades shall to section 60 Chapter 6 - Alterations - Level 1 manner that maintains the level of fire protection provided. manner that maintains the level of protection provided for the means here "technically feasible". ble in that the project is on the second floor and there is no elevator.

DA compliant interior thresholds are allowed to be 3/4" in height with bevelled edges. Incressible route from primary function if cost of providing the route exceed 20 percent ion (Assembly Occupancy of the second floor).

Section 701.3 - New construction elements, components, systems and spaces shall comply with the requirements of the IBC with the exception of windows, electrical to meet Section 708, dead-end corridors to meet Section 705.6 and min. ceiling height shall be 7-0".

Section 703.2.3 - Stairway enclosures where work area is over 50% of floor requires smoke-tight construction.

Section 703.2.3.2 - Smoke barriers at stairs shall be 30 minute fire rated in accordance with the IBC.

Section 704.2.2 - Lie Alarm and detection systems is required in Group A because of occupant load greater than 30.

Section 705.1 - Means of Egress requirements only required in Group A because of occupant load greater than 30.

Section 705.4.2 - Doors must swing in the direction of travel if the occupant load is more than one tenant.

Section 705.4.2 - Doors to exit stairs must be self-closing by listed dosing devises.

Section 705.4.2 - Panic Hardware is not required at exit access because not occupant load is less than 100 people.

Section 705.6(2) - Dead-end corridors shall not exceed 50 feet in Business Occupancies. No travel distance exceeds 50 feet.

Section 705.6 - Exit signs are required within the work area as per the requirements of the IBC. Current illumated signs comply.

Section 709.1 - All reconfigured spaces within the work area and intended for occupancy shall be provided with natural or mechanical ventilation in accordance with the *International Mechanical Code*.

Section 709.1 - All reconfigured spaces within the work area and intended for occupancy shall be provided with natural or mechanical ventilation in accordance with the *International Mechanical Code*.

Section 7.1.1 - Level 2 alterations to existing buildings are permitted without requiring the entire building comply with the *International Energy* 

## Chapter 9 - Change of Occupancy

NEW 60 MINUTE FIRE RATED DOOR, FRAME AND HARDWARE WITH ADA LEVER

NEW 60 MINUTE FIRE RATED DOOR, FRAME AND HARDWARE WITH ADA LEVER

REMOVE EXISTING DOOR AND FRAME. PREP FOR NEW EXIT DOOR AND FRAME. REPAIR GWB AS REQUIRED.

REMOVE EXISTING DOOR AND FRAME PREP FOR NEW EXIT DOOR AND FRAME. REPAIR GWB AS REQUIRED.

Section 901.4 - A new Certificate of Occupancy is required.
Section 907.3.1 - Seisimic upgrades are not required by with a chasection 908.3 - Change of Occupancy triggers requirement for ele Section 908.4 - Change of Occupancy triggers requirement for the Section 909.1 - Change of Occupancy triggers requirement for me Occupancy.

Section 910.1 - Change of Occupancy triggers requirement for plu Section 911.1 - Light and ventilation shall comply with the requirer Section 912.4 - Means of Egress Hazard Category is Level 3, baschange change of use from Mercantile to Assembly. electrical service to meet ICC Electrical Code for new the number of electrical outlets comply with ICC Electroechanical ventilation to meet the .International Mechanical ventilation to meet the .International ventilation to .International ventilation ventilation to .International ventilation ve

ational Plumbing Code Building Code

Section 912.8 - Change of Occupancy triggers the following ac One accessible entrance.

At least one accessible route from entrance to primary fu Signage complying with Section 1110 of the IBC. ode. Category for

REVISED: 09/9/16

STUDIO

LIFE SAFETY PLAN

ISSUED FOR/REVISION: DRAWN BY: Copyright 2016 Barba + Wheelock ROOT(ed) YOGA STUDIO

PORTLAND, MAINE 04101

**36 MARKET STREET** 

SHEET SIZE: 22" x 34"

07 / 25 / 2016

ROOT(ed) YOGA