

Total = 2.681376 508 Mixed Use and Occupancy 508.3 Non-Separated Occupancies Buildings or portions of buildings that comply with the provisions of this section shall be considered non-separated occupancies. 508.3.1 Occupancy Classification

31,353 / 46,500 = 0.674258

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Second Floor:

Third Floor:

Fourth Floor:

Non-separated occupancies shall be individually classified in accordance with Section 302.1. The requirements of this code shall apply to each portion of the building based on the occupancy classification of that space except that the most restrictive applicable provisions of Section 403 and Chapter 9 shall apply to the building of portion thereof in which the non separated occupancies are located.

508.3.2 Allowable Building Area and Height The allowable building area and height of the building or portion thereof shall be based on the most restrictive allowances for the occupancy groups under consideration for the type of construction of the building in accordance with Section 503.1

508.3.3 Separation

Chapter 6 - Types of Construction Table 601 - Fire Resistance Ratings for Building Elements Rating of Building Elements, IBC Table 601 Type 2A **Building Element**

No separation is required between nonseparated occupancies.

Primary Structural Frame: 1 hour **Bearing Walls** Exterior: 1 hour 1 hour Nonbearing Walls and Partitions: Exterior: (See Table 602) Floor Construction and secondary members: 1 hour

Roof Construction and secondary members: 1 hour

602.2 Type II Construction Noncombustible materials, Fire Retardant Treated Wood (FRTW) is permitted in limited uses. Other combustible materials are permitted as outlined in Section

Chapter 7 - Fire and Smoke Protection Features

Openings in a shaft enclosure shall be protected in accordance with Section 715 as required for fire barriers. Doors shall be self or automatic-closing by smoke detection in accordance with 715.4.8.3

708.8.1 Penetration Penetrations other than those necessary for the purpose of the shaft shall not be

708.14.1 Elevator Lobby Enclosure Not required per Exception No. 4 "...building is protected by an automatic sprinkler system in accordance with Section 903.3.1.1"

713 Penetrations

713.1.1 Penetrations of fire resistance rated walls by ducts (not protected by dampers): Sleeves through walls, in cavity construction, shall be securely fastened (a fire stop assembly is required between sleeve and pipe/duct).

713.3.2 Membrane penetrations shall be limited to 16 square inches each and an aggregate of 100 square inches/100 sf of wall. Offset boxes by 24" on opposite sides of wall

Not required at sprinklers with escutcheon plate

714 Fire-Resistant Joint Systems 713.1.1 General

Joints installed in or between fire-resistance-rated walls, floor or floor/ceiling assemblies and roof or roof/ceiling assemblies shall be protected by an approved fire-resistant joint system matching the required fire resistance rating. 708.4 Openings

Openings in a shaft enclosure shall be protected in accordance with 715 as required for fire barriers. Doors shall be self or automatic-closing by smoke detection in accordance with 715.4.8.3

Chapter 8 - Interior Finishes

Table 803.9 Interior Wall and Ceiling Finish Requirements

NOTE: ALL FINISH MATERIALS TO BE CLASS A FIRE RATED

By Occupancy Sprinklered Group A-3 Exit Enclosures **Corridors** Rooms and Enclosed Spaces Class B Class B Class C Class C Class B Class C Class C

Chapter 9 - Fire Protection Systems 903.3.1.1 NFPA 13 Sprinkler Systems The building will be equipped throughout with an automatic sprinkler system in accordance with NFPA 13.

903.4 Actuation Valve controlling water supply for automatic sprinkler system shall be electronically supervised by a fire alarm control unit.

905 Standpipe Systems

905.2 Standpipe Systems will be provided in accordance with NFPA 14

1007 Accessible Means of Egress 905.3.1 Height Class 1 Standpipes are allowed in buildings equipped throughout with an automatic

sprinkler system

approved by the fire code official

907 Fire Alarm and Detection Systems

907.2 Where Required-New Buildings and Structures

907.2.2 Group B: Manual fire alarm system required.

907.2.7 Group M: Manual fire alarm system required.

Means of Egress, (IBC Chapter 10, NFPA Chapter 22)

Table 1004.1 Maximum Floor Area Allowances Per Occupant

hose stream is reachable)

in accordance with NFPA 10

sprinkler system

areas over 50 occupants

Chapter 10 - Means of Egress

1004 Occupant Load

Assembly

Business

Mercantile

1005 Egress Width

• Where roof slope is less than 4:12 each standpipe shall be provided with a hose

connection etiher on the roof or the highest landing of a stairway with stair access to

On each side of the wall adjacent to exit opening of horizontal exit (not required where

906 Portable Fire Extinguishers Required in Group A, B, and M Occupancies: provided

• Exception: In Group A and B Occupancies extinguishers only required on each floor

• Exception 2: Automatic heat detection is not required in buildings with automatic

907.2.1 Group A: Manual fire alarm system with occupant notification system required in

907.2.9.2 Smoke alarms shall be installed per Section 907.2.11 (within sleeping units)

912.2.1 Fire Department Connections: Locations as approved by fire chief so vehicles and

hose lines will not interfere with building access (visible location on street side of building).

15 net sf. Un-concentrated

Grade Floor Area = 30 gross sf

100 gross sf

905.4 Class I Standpipe Hose Connections shall be provided in the following locations: In every stairway at an intermediate floor level between floors, unless otherwise

Clear Width 48": Not required in buildings with automatic sprinkler system. Exception No. **Area of Refuge:** Not required in buildings with automatic sprinkler system. Exception No.

1007.4 Elevators Exception 2: Area of Refuge not required if building equipped with automatic sprinkler system

1007.8 Two-way communication system shall be provided at each elevator landing. **1007.10** Directional signage shall be provided at elevator landings 1008 Doors, Gates, and Turnstiles **1008.1.1 Size of Doors-** Minimum clear width = 32", maximum leaf width = 48"

1008.1.5 Provide a level landing on each side of door, except at exterior locations with 2% slope pitch for drainage

1008.1.8 48" plus door width required minimum space between doors in series **1008.1.9.10** Interior stairway means of egress doors shall be openable from both sides

Exception 1: Stairway discharge doors shall only be locked from the opposite side **1008.1.10** Doors serving an occupancy load of 50 or more in Group A shall be provided with panic hardware. Electrical rooms with equipment rated at 1200 amps or more will also require panic hardware.

1015 Exit and Exit Access Doorways

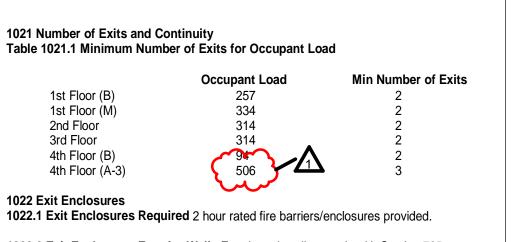
1015.1 Two exits required from any space except as permitted by Table 1015.1 1015.2.1 Exit doors shall be placed not less than 1/3 (exception #2) the length of the

1st Floor 144'-4" 30,624 sf 338'-11" 112'-11" 2nd Floor 31,353 sf 144'-4" 338'-11" 112'-11" 144'-4" 3rd Floor 31,353 sf 4th Floor 9,336 sf 163'-7" 54'-6" 55'-1"

1016 Exit Access Travel Distance Table 1016.1 Exit Access Travel Distance

maximum overall diagonal dimension.

<u>Occupancy</u>	Max. Distance Sprinklered	Actual Distan
A3 - Assembly	250'	110'-8"
B-Business (Level 1)	300'	84'-0"
B-Business (Level 2-3)	300'	126'-6"
B-Business (Level 4)	200'	84'-0"
M-Retail	250'	TBD



1022.1 Exit Enclosures Required 2 hour rated fire barriers/enclosures provided.

Occupant Load

1022.6 Exit Enclosures Exterior Walls Exterior exit walls comply with Section 705

1022.8 Floor Identification Signs Floor level identification signs required at each floor

1023 Exit Passageways

1023.1 Exit Passageway Exit passageway used to connect stairway enclosure to an exterior door 44" min. width

 Wells, floor, and ceilings shall be of not less than 1 hour fire resistance rated construction and constructed as fire barriers in accordance with Section 707.

1027 Exit Discharge

1021 Number of Exits and Continuity

1st Floor (B)

1st Floor (M)

4th Floor (B)

4th Floor (A-3)

landing within stair (tactile).

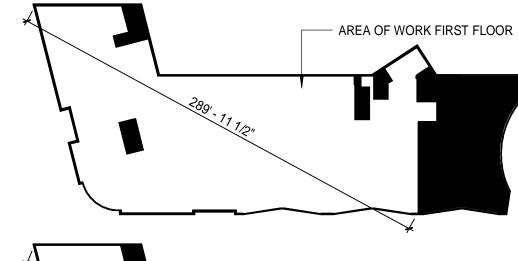
2nd Floor 3rd Floor

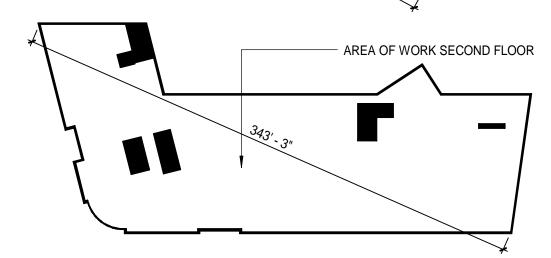
1027.1 General Exits shall discharge directly to the exterior of the building. Exit Stair is allowed to egress through the Main Lobby per the following: Exceptions: 1. A maximum of 50 percent of the number and capacity of the exit enclosure is

permitted to egress through areas on the level of discharge provided all of the 1.1 Such exit enclosures egress to a free and unobstructed path of travel to

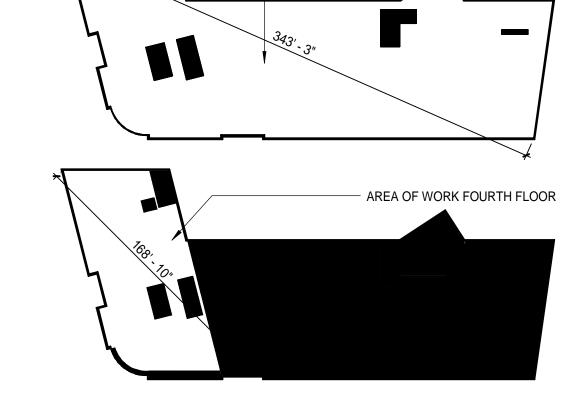
an exterior exit door and such exit is readily visible and identifiable from the point of termination of the exit enclosure. 1.2 The entire area of the level of exit discharge is separated from areas below by construction conforming to the fire-resistance rating for the exit

1.3 The egress path from the exit enclosure on the level of exit discharge is protected throughout by an approved automatic sprinkler system. All portions of the level of exit discharge with access to the egress path shall either be protected throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1, or separated from the egress path in accordance with the requirements for the enclosure of





AREA OF WORK THIRD FLOOR



THE PROPOSED BUILDING IS AN UNSEPARATED MIXED USE CONSTRUCTION TYPE II (111) BASED ON 4TH FLOOR ASSEMBLY NFPA 13 SPRINKLER SYSTEM

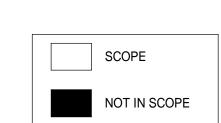
1ST FLOOR **BUSINESS USE**

2ND-3RD FLOOR

BUSINESS USE

BUSINESS USE 4TH FLOOR (INTERIOR)

OCCUPANCY LOAD 1ST FLOOR 25,624 SF/ 100 SF = 257 M 128 F 127	WC				URINALS		LAVATORIES			;	DRINKING FOUNTAIN	
	RE	:Q	PRO\	/IDED	REQ	PROVIDED	RE	Q	PROV	IDED	REQ	PROVIDED
	<u>М</u> 3	<u>F</u> 8	<u>M</u> 4	<u>F</u> 8	2	3	<u>M</u> 2	<u>F</u> 3	<u>M</u> 4	<u>F</u> 5	2	2
ND - 3RD FLOOR 0,353 SF/ 100 SF = 314 1 157 F 157	<u>M</u> 3	<u>F</u> 8	<u>M</u> 4	<u>F</u> 8	2	4	<u>M</u> 2	<u>F</u> 3	<u>M</u> 4	<u>F</u> 4	3	4
TH FLOOR ,336 SF/ 100 SF = 94 1 47 F 47	<u>M</u> 1	<u>F</u> 3	<u>M</u> 2	<u>F</u> 5	1	2	<u>M</u> 1	<u>F</u> 1	<u>M</u> 2	<u>F</u> 3	1	2



KEY PLAN /

03-15-18 PERMITTING ADDENDUM NO. 1 DESCRIPTION PERMITTING ADD. 1 03-15-2018 CURRENT ISSUE STATUS: PROJECT NORTH: SMRT Architects and Engineers 144 Fore Street/P.O. Box 618 Portland, Maine 04104 ARCHITECTURE ENGINEERING PLANNING INTERIORS ENERGY CORPORATE HEADQUARTERS

PORTLAND, ME

SHEET TITLE:

CODE SUMMARY AND KEY PLAN

0" 1/4" 1/2" 1" 2"

PROJECT MANAGER: GWV PROJECT NO:

SMRT FILE: A-001-17120-01 SHEET No. NOT FOR CONSTRUCTION