CODE ANALYSIS

Storage rooms over 100 sf

Section 410.4 Platform construction

Chapter 5 GENERAL BUILDING HEIGHTS AND AREAS

Section 504.2 Automatic sprinkler system

When equipped with sprinkler system

Section 506 Area Modifications

Table 503 Height and Area Limitations of Buildings

Stages and Platforms

Construction Type

Type IIB

Group A-2 Assembly

Height and Area Limitations

Area limitations

Height limitations

Height increase

Chapter 4 SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

3,000 sf.

1 hour or provide sprinkler system

platform need not be protected.

Indicates 9,500 sf per floor

Aa = 9,500 + 2,375 + 28,500

Indicates 2 story

Indicates 55 feet

Existing 21' - OK

Area shall be permitted to be increased due to frontage and automatic sprinkler

Aa = At + (At | f/100) + (At | s/100) $Aa = 9,500 + (9,500 \times 25/100) + (9,500 \times 300/100)$

Existing 1 story - OK

Existing 6,900 sf first floor – OK

Existing 7,500 sf basement - OK

Indicates type IIB, increase not allowed

Area Allowed = 40,375 / existing 6,900 sf - OK

Proposed – provide sprinkler system

Permitted to be constructed of fire-treated wood

for Type II construction when less than 30" above

floor, less than 1/3 of the floor area, and less than

Where space beneath platform is used only for

equipment, wiring, or plumbing, underside of

Section 506.2 Frontage Increase

Indicates 32" Proposed 36" - OK Indicates 80"

Serving occupant load of 50 or less Indicates 36"

Section 1009.2 – Headroom

Indicates 80" Proposed 80" - OK

Indicates 7" Proposed 7" - OK

Stair riser minimum Indicates 4" Indicates 11" Proposed 11" - OK

Indicates between 34" and 38" Handrail height

<u>Guards</u>

Section 1012.1 - Where required On open-sided walking surfaces Indicates more than 30" above floor or grade

Protective barrier Indicates not less than 42"

Exit Access

Egress from a room may not pass through kitchens, storage rooms, closets

Section 1013.3 – Common path of egress travel

Indicates not more than 75' when sprinklered Occupancy A

Proposed 43' - OK

Table 1014.1 – Spaces with one means of egress

Indicates maximum occupant load of 50 Occupancy A

Section 1014.1 – Two exits or exit access doorways

Indicates not less than 1/3 the length of overall diagonal dimension when sprinklered Proposed 136' diagonal / 88' exit distance

Proposed more than 1/3 the length - OK Proposed 69' diagonal / 28' exit distance Proposed more than 1/3 the length - OK

Exits from most remote point

Indicates 250' with sprinkler system First Floor, Proposed 127' - OK

Basement. Proposed 190' - OK

Occ load greater than 30 Indicates 0 hour rated corridor when sprinklered

Section 1016.2 - Corridor width

Indicates 44" Proposed 60" - OK Capacity of 50 or less Indicates 36"

Section 1016.3 – Dead Ends

Indicates 20' Not limited in length when corridor is less than 2.5

times the width

Occupancy A Indicates 1 story maximum 50 occupants

75 feet travel distance

Section 1105.1 – Public Entrances

Amount of accessible entrances Indicates at least 50% Proposed 50% - OK

Minimum net glazed area Indicates 8% of the floor area

Avg illumination of room at 30" Indicates 10 foot-candles

Use and Occupancy Classification Group

Gathering of 50 or more persons for eating... Display and sale of merchandise-No Change

Maine State Internal Plumbing Code

Total occupant load

540 Occupants / 2 = 270 men / 270 women

Restaurants, Pubs, Lounges Male – 3 per 151 to 300 = 3 WC required

Male – 2 per 300 = 2 urinals required For each urinal added in excess of required, one

WC may be deducted

2 Water Closets Proposed – OK

5 Urinals Proposed - OK

Female – 4 per 151-300 = 4 WC required Female must have equal number of WC to WC

and urinals for males Female = 5 water closets required

Female: 6 water closets proposed - OK because 6 male

fixtures are required but 7 are provided

Male -3 per 201 to 400 = 3 lavatories regd. Proposed 4 - OK Female – 3 per 201 to 400 = 3 lavatories regd

Proposed 4 - OK

Drinking fountains not required

Section 413.3 Separate Facilities Separate facilities shall be provided for each sex Separate facilities proposed - OK

Section 413.6 Food Service Establishment

Occupant load less than 100 Indicates customer and employee facilities may

be combined

Occupant load over 100, Not combined - OK

Code **Analysis**

DAVID S.

MATERO

No. 2705

Job Number: 09.011

Date: 11.Jun.09

Scale: NTS

Drawing Title:

Issue for Permit

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Section 907.2.2 - Group A-2 If = 100 (178/356-.25) 30/30 If = 100(F/P-.25)W/30Manual fire alarm boxes are not required where the building is equipped with a Binga's Wingas at the Stadium If = 100 (.25) * 1BW Stadium, LLC If = 25When two are required 77 Free Street Chapter 10 MEANS OF EGRESS Portland, ME Section 506.3 Automatic sprinkler system increase First floor Occupant Load Table 1004.1.2 Maximum Floor Area Allowances per Occupant When fully sprinklered Is = 200 percent for multi-story buildings The building is within a B-3 and DEOZ district Basement First Floor Chapter 6 TYPES OF CONSTRUCTION This project has been designed to comply with the following codes: <u>Fire Resistance Ratings of Structure Elements</u> Assembly, Unconcentrated Indicates 15 sf net Portland Code of Ordinances Table 601 Fire Resistance Rating Requirements for Building Elements 2,476 sf = 165 occupants Table and chairs Exit Access Travel Distance International Building Code, 2003 Table 1015.1 Exit Access Travel Distance Structural frame Indicates 0 hour NPFA 101 Life and Safety Code, 2003 Existing to remain – 0 hour Fixed booth seating 68 occupants Maine Internal Plumbing Code Occupancy A Bearing Walls (exterior/interior) Indicates 0 hour Commercial Kitchen Indicates 200 sf gross Portland Ordinances Existing to remain – 0 hour 915 sf area = 5 occupants Zoning District Take out Indicates 30 sf gross Nonbearing walls and partitions Indicates 0 hour <u>Corridors</u> B-3 Downtown Business Zone Proposed – 0 hour 195 sf area = 6 occupants Table 1016.1 Permitted use Indicates restaurant Occupancy A PAD Overlay zone Indicates 0 hour Mezzanine (DJ / Office) Indicates 100 sf gross Floor construction Permitted use Indicates restaurant Existing to remain – 0 hour 400 sf area = 4 occupants Minimum lot size None 248 Occupants Total First Floor Roof construction Indicates 0 hour Minimum corridor width Existing to remain – 0 hour Minimum street frontage Indicates 15' **Basement** Existing 235' - OK Bearing Walls (exterior/interior) Indicates 0 hour Assembly, Unconcentrated Indicates 7 sf net Existing to remain – 0 hour Table and chairs 1,900 sf area = 270 occupants Street wall build-to line Indicates 5' Group A with sprinkler system Existing 0 - OK Game Room Number of occupants Table 602 Fire Resistance Rating Requirements for Exterior Walls 49 occupants Minimum yard dimensions None Indicates 1 hour Less than 30' Number of Exits and Continuity Existing to remain – 1 hour Commercial Kitchen Indicates 200 sf gross Minimum lot width None 465 sf area = 3 occupants Table 1018.2 – Buildings with one exit More than 30' Indicates 0 hour Maximum length of PAD overlay indicates 15' Undifferentiated blank wall Chapter 7 FIRERESISTANT MATERIALS AND CONSTRUCTION Total Basement 322 Occupants Existing 113' - Existing Exterior Walls Section 704.8.1 First Story Section 1004.1.3 Number by combination **Chapter 11 ACCESSIBILITY** Maximum lot coverage Indicates 100% Unlimited unprotected openings are permitted in the first story of exterior walls Occupants from accessory spaces egress through primary area, occupant load for <u>Accessible Entrances</u> Existing 100% - OK facing a street which have a fire separation distance of greater than 15 feet. the primary space shall include the total occupant load of both spaces Minimum building height Indicates 35' Section 704.9 Vertical separation of openings Egress Width Existing 21' - OK Table 1005 – Egress Width per Occupant (with sprinkler system) Shall not apply to building that are three stories or less in height. Stairways .20" per person Chapter 12 INTERIOR ENVIRONMENT Indicates consistent with Urban Design Guidelines Signs .15" per person Section 704.11 Parapet Doors, ramps and corridors Not required on exterior wall if wall is not required to be fire-resistance rated Section 1205.2 – Natural Light Historic resources Indicates subject to provisions of article IX Section 1005.2 – Door encroachment Shaft Enclosures Door opening into path of egress travel Smoke Indicates smoke shall not be emitted in excess of Section 707.2 Shaft Enclosures Shall not reduce width to less than ½ during Section 1205.3 Artificial Light 20% opacity level as classified in Method 9 (Visible course of swing and 7" when fully open Shaft enclosure is not required when sprinklered and area of floor opening does not Emissions) of the Opacity Evaluation System of the exceed twice the horizontal projected area of the stairway and the opening is Means of Egress Illumination NFPA 101 Life Safety Code Review protected by a draft curtain and closely spaced sprinklers Proposed smoker = 5% - OK Floor area of existing stairway 150 sf Section 1006.2 – Illumination level Means of egress illumination Indicates not less than 1 foot-candle /floor level Floor area of existing opening 100 sf Chapter 3 DEFINITIONS Allowable floor area of opening Indicates 300 sf **IBC Code Review** Existing 100 sf - OK Section 1006.3 – Illumination emergency power Assembly Occupancy Emergency power shall illuminate Indicates exit access corridor, passageways, and Chapter 3 USE AND OCCUPANCY CLASSIFICATION Mercantile Occupancy aisles in rooms and spaces which require two means of egress Proposed draft curtain - OK Draft curtain required Use and Occupancy Classification Group Assembly Group A-2 Section 304 Mezzanine Indicates shaft enclosure not necessary Door, Gates and Turnstiles Table 4-1 - Minimum Plumbing Facilities Section 1008.1.1 Size of doors Minimum width Opening Protectives Table 302.1.1 Incidental Use Areas

Table 715.3 – Fire door and fire shutter fire protection ratings Fire walls – 2 hour Indicates 1 ½ hour rating

Proposed 1 ½ hour rating - OK Exit enclosures – 1 hour Indicates 1 hour rating Proposed 1 hour rating - OK Corridor walls – 1 hour Indicates 20 minute

Section 715.3.5 Labeled protective assemblies: Fire door assemblies shall be labeled by an approved agency. The labels shall comply with NFPA 80, and shall be permanently affixed to the door.

Proposed 20 minute rating - OK

Table 715.4.3 Limiting Size of Wired Glass Panels (also in Fire Doors) Indicates 100 sq. in., 33" max ht., 10" max width 1 and 1 ½ hours 3/4 hour Indicates 1,296 sq in., 54" max ht., 54" max width

Not limited

Flame spread 26-75

Chapter 8 INTERIOR FINISHES

20 minute

Class B

Interior Finish Requirements Section 803.1 Classification: ASTM E84 flame spread as follows: Flame spread 0-25 Class A

Class C Flame spread 76-200

Table 803.4 – Interior Finish Requirements Use Group A-2, sprinklered

Vertical exits Indicates Class C if sprinklered Proposed Class C - OK

Indicates Class B for A-2 Exit access corridor

Proposed none - OK

Chapter 9 FIRE PROTECTIVE SYSTEMS <u>Automatic Sprinkler Systems</u>

Automatic sprinkler system provided - OK

Section 903 – Automatic Sprinkler System Required for group A-2 occupancies over 5,000 sf, load of 300 or more, and when fire area is located on a floor other than the level of exit discharge

Rooms or enclosed spaces Indicates Class C

Proposed Class C - OK

Minimum height Proposed 6'-8" - OK

Stairways and Handrails

<u>Fire Alarm and Detection Systems</u>

Section 1009.1 – Stairway width Minimum width Indicates 44" Proposed 44" - OK

Exception

Minimum headroom

Section 1009.3 – Stair treads and risers Stair riser height maximum

Stair tread depth

Section 1009.11.1 – Handrail height

Proposed between 34" and 38" - OK

Section 1012.2 – Height

Section 1013.2 Egress through intervening spaces

Exit and Exist Access Doorways

Stadium the at ga

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