175 Anderson Street - Cha	nge of Use					7/14/2016
Portland, ME						REVISED 9-21-16
•						
Code Analysis						
		IBC 2009			NFPA 101 - 2009	
Category	Reference	Code Requirements		Reference	Code Requirements	Proposed
Use Group	304.1	Unseparated Mixed Use: M-Mercantile + B-Busine	ess	3.3.178.9	M - Mercantile (Class C per 36.1.4.2.1)	Sales on lower level only
Building Construction	602	Type II (B)		NFPA 220	Construction Type II (000) - Unprotected	
		t. CMU Exterior Walls and Steel Frame - steel joists bearing on steel				
	NR NR	Foundation - Concrete frost wall and slab		1		
	_	Exterior - 8 and 12 inch CMU.				
		Exterior - 8 and 12 inch CMU.				
	0HR					
		Interior walls - Wood stud with GWB surfacing				
	OHR		1 10MD 140T	1		
		Floors - metal deck with concrete slab and suspended GWB and ACT				
	1	ceilings				
	Members 0HR Roof	Floors - metal deck with suspended GWB and AC	Tacilings			
	Construction &	Floors - metal deck with suspended GWB and AC	i ceilings			
	Secondary					
	Members 0HR					
	Wellibers Unix					
Height & Area Limitations	Table 503	Most Restrictive (M): 12,500 SF Per Floor				3,307 SF
Treight & Area Emiliations	Table 303	2 Stories / 55'				2 stories / 23'-2" height from lowest grade to
		2 5151155 / 55				midpoint of highest roof plane
					•	3
Height Modifications	504.2	Automatic Sprinkler System Increase - not used				Not Sprinklered
Maximum allowable	504.2	Automatic Sprinkler System increase - not used				Not Sprinklered
height						·
Area Modifications	506.2	Street Frontage Increase - not used				
	506.3	Automatic Sprinkler Increase - not used				3,307 SF - "Building Area" - First Floor per
						IBC 502.1
Maximum allowable area	506.3	12,500 SF Per Floor - No increases used				1,067 SF - "Building Area" - Second Floor per IBC 502.1
						4,374 SF Total "Building Area"
Mezzanines	505.2	1/3 area max: 3,307 / 3 = 1,102 s.f. max		8.6.9.2.1	1/3 area max: 3,307 / 3 = 1,102 s.f. max	1,067 s.f.
	505.3	Single exit permitted per 1014.3		36.2.4.3	Minimum number of exits = 1 where travel distance < 75'	Single Exit
	505.4	Not required to be open per exception 1: 10 occup	pants	8.6.9.3.1	Not required to be open per exception:	Not open to floor below
					does not exceed 10 occupants	
Fire ratings - Exterior		Loadbearing Ext walls ≥30' = 0 hr		 		0 Hour
		Nonloadbearing Ext walls >30' = 0 hr		 		0 Hour
		Exterior walls 10'-30' from adjacent structures - 0 Hr		ł		0 Hour
Fine Detinone Lateria	T-bl- 4040 4	Te s		20.2.0	Fruit Assess Countiles	NIA
Fire Ratings - Interior	Table 1018.1	Exit access corridors - 0 Hour (with sprinkler syste	em)	36.3.6	Exit Access Corridors need not be rated if occupied by a single tenant	INA - none
	1022.1 (1)	Stairway is not required to be enclosed when the	stairway serves an	36.3.1 (2)	Unprotected opening to mezzanine is	Unprotected stair to office space at mezzanine
	1922.1 (1)	occupant load of < 10	Jun way Joi vos all	33.3.1 (2)	permitted	shall remain
	708.2 (7)	Shaft eclosures - 0 hr			ренишее	No applicable conditions
		Int. nonloadbearing walls - 0 Hour		1		0 Hour
	Table 601	Floor Construction - 0 Hour		36.3.7	Subdivision of Building Spaces: None	0 Hour
	. 4010 001	. 100. 00110114011011 0 1 1041		100.0	Dana and on Danaing Opacos. Notice	0

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	Table 601	Roof construction - 0 Hour			0 Hour
			36.3.2 > 8.7	No high hazard areas, no cooking equipment	No applicable conditions
	1009.6.3	Enclosures under stairs shall be 1 hour fire rated construction			Existing stair storage area finishes shall be upgraded to provide 1-hour finish rating
Fire Door and Fire Shutter	Table 715 /	No applicable conditions	Table 8.3.4.2	No applicable conditions	No applicable conditions
Fire Protection Ratings	Table 713.4	TVO applicable conditions	Table 0.3.4.2	ino applicable conditions	INO applicable conditions
Fire Window Assembly	Table 715.5	No applicable conditions	Table 8.3.4.2	No applicable conditions	No applicable conditions
Fire Protections Ratings	Tuble Field	The approach continue	14510 0101412	The approach sommer.	The department of the departme
	Table 705.8	Area Limitations - 10' from property line, unprotected, unsprinklered - 15%			No openings at nearest property line
Fire Damper Rating	Table 716.3.2.1	No applicable conditions			No applicable conditions
Ducts and Air Transfer	716.5.1	Fire Walls - Fire Dampers required			No applicable conditions
Openings	716.5.1.1	Fire Walls in Horizontal Exits - Smoke Barriers required			No applicable conditions
	716.5.2.1	Fire Barriers in Horizontal Exits - Smoke Dampers required			No applicable conditions
	716.5.3	Shaft Enclosures - Fire Dampers and Smoke Dampers required			No applicable conditions
	716.5.4	Fire Partitions - Ducts penetrating fire partitions shall be equipped with fire dampers.			No applicable conditions
Interior Flame Spread	Table 803.9	Deguined out analogues and necessary D.			No applicable conditions
•	Table 603.9	Required exit enclosures and passageways - B permitted in buildings	36.3.3.2	Walls & ceilings - Class A or B	As required
Index		Corridors - B		Exit enclosure floors - Class I or II	
			36.3.3.3.2		No applicable conditions
		Rooms or enclosed spaces - C	36.3.3.3.1	Other floors - Class A, B or C	As required
	=	1100 005		N M " 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Occupant Load	Table 1004.1.1	Mercantile Group Occupancy = 1/60 GSF*	Table 7.3.1.2	New Mercantile occupant load: 1/30 SF	
		Accessory business use spaces = 1/100 GSF	ļ	Offices in Mercantile = 1/100 SF	
		Accessory mechanical / storage use spaces = 1/300 GSF		Storage areas, mechanical equipment rooms: 1/500 GSF	
		1st Floor Mercantile: 2784 net / 60 = 47 OCC		1st Floor Mercantile: 110 OCC	
		2nd Level Business: 9 OCC		Second Level Offices: 9 OCC	
		2nd Level Mechanical: 1 OCC		Second Level Mechanical: 1 OCC	
		Total = 57 Occupants	<u> </u>	Total = 120 Occupants	
Means of Egress	1005.1	Egress width per occupant @ stairways = 0.3" x 10 = 3"	Table 7.3.3.1	Egress width per occupant @ stairways = 0.3" x 10 = 3 "	handrails)
		Egress width capacity per occupant @ doors and corridors = .2" x 57 = 11.4"		Egress width capacity = 0.2" per occupant @ level components & ramps .2 x 120 = 24"	
	1009.1	Exception 1. Stairways serving an Occupant Load of < 50 shall have a	7.2.2.2.1.2	OCC Load < 50: 36" min clear (allowing 4-	1
		width of not less than 36"		1/2" obstructions at or below handrail	
	1008.1.1	Minimum door opening width = 32" clear	7.2.1.2.3	Minimum door opening width = 32" clear	Typ. = 36" Doors = 34" net clear opening
	Table 1016.1	Length of travel < 200'	36.2.6.1	Length of travel < 150'	68' Travel from second floor to exterior

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0-1	Reference		Deference		Description
Category		Code Requirements	Reference	Code Requirements	Proposed
	1018.4	Dead ends < 20'	36.2.5.2.2	Dead ends < 20' (not sprinklered)	No dead ends proposed
	1014.3	Common path of travel ≤ 75' (not sprinklered)	36.2.5.3	Common path of travel ≤ 75' (not	63' Travel from most remote second floor area
			-	sprinklered)	to foot of stairs
	1018.2	Minimum corridor width = 44" clear	7.3.4.1	Minimum corridor width = 36" clear	No corridor conditions proposed
	Table 1021.2	Stories with one exit: First floor mercantile less than 49 occupants,	36.2.4.3	Minimum number of exits = 1 where travel	
		second floor business less than 29 occupants		distance < 75'	
	Table 1015.1	Allows M occupancies of 49 of less to have a single means of egress.	7.5.1.3.5	Allows for existing buildings to be exempt	Existing exits are less than 1/2 the building
				from the minimum separation requirement	distance apart: Additional exit IF REQUIRED
					is proposed at furthest existing overhead door
					opening with pass-door in new overhead door
					system
	Table 1021.2	Single Exit Permitted from second story (mezzanine)			Single unenclosed stairway
	1022.1	Exit enclosure not required if second floor is <10 occupants			Single unenclosed stairway
Emergency Lighting	1006.1	Emergency lighting is required	36.2.9	Not required	Provided
	1011.1 (exc. #2)	Exit Signs are required except at main exterior exit doors	7.10.1.2	Exit Signs are required except at main	Illuminated signage exists: Tactile Signage
	, ,			exterior exit doors	must be added
Fire Suppression Systems	903.2 > 903.2.7	No sprinkler system required	36.3.5.1	No sprinkler system required	No sprinkler system provided
Standpipes	905.3	Standpipes are not required		<u> </u>	No standpipe provided
Standpipes	300.0	portantipopos uno not roquinou			Tro dianapipo providou
Fire Alarm Systems	907.2.7	Automatic Fire Alarm System is not required	36.3.4.1	Fire alarm is not required	No fire alarm provided
			-		
Smoke Detetectors	907.2.7	There is no requirement for smoke alarms	38.3.4 >	Smoke alarms not required	No smoke alarms shall be provided
			9.6.2.10	<u> </u>	,
Extinguishment	906	Portable fire extinguishers shall be installed as per NFPA 10 (IFC 2009)	38.3.5.3	Portable fire extinguishers required	Provided
requirements		(ii	1 3.0.0.0		