489 Congress Street - Fit-u	р				11/3/201
Portland, ME					
Code Analysis					
		IBC 2015		NFPA 101 - 2009	
Category	Reference	Code Requirements	Reference	Code Requirements	Proposed
					0.00
Use Group	304.1	Use B-Business	3.3.178.3	Business Occupancy	Business: Office Space
5 11 11 2 11	=	T		In	
Building Construction	Tables 601 & 602	Type III (B) - Common unprotected	NFPA 220	Construction Type III (200) - Unprotected	
	Drimon, Church	Load bearing brick exterior walls and interior elements (some heavy			
	Primary Struct. Frame 0HR	timber columns)			
	NR	Foundation - Unknown			
	Bearing 2HR	Exterior - 12-24 inch brick.			
I	Douring Line	EXCITOT TE ET INOT BITOK			
	Non-Bearing 1HR	Exterior - 12-24 inch brick.			
	Non-Bearing 0HR	Interior walls - Wood stud with GWB surfacing			New walls: Wood frame with GWB
	Floor & Secondary	Existing Floors - assuming 2x wood framing at 16" or 12" c/c with plas	er		
	Members 0HR	or GWB finish			
	Roof Construction	Existing roof - assuming 2x wood framing at 16" or 12" c/c with plaster	or		
	& Secondary	GWB finish and suspended GWB and ACT ceilings			
	Members 0HR				
11.1.1.4.0.4	T.11. 500	F7 000 0F B F1			4.450.05
Height & Area Limitations		57,000 SF Per Floor			4,453 SF
	Table 504	4 Stories / 75' (sprinklered)			3 stories / unknown existing height
Area Modifications	506.3	Stroot Frontage Ingresses and used		T	
Area Modifications	306.3	Street Frontage Increase - not used			+
Maximum allowable area	506.3	57,000 SF Per Floor - No increases used			
maximum anowabic area	300.3	or,000 or refricor No mercases asea			
				-	13,759 SF Estimated Total "Building Area"
Fire ratings - Exterior	Table 602	Exterior walls <5' = 2 hr			2 Hour
3		Exterior walls 5 <x<10' 2="" =="" hr<="" td=""><td></td><td></td><td>2 Hour</td></x<10'>			2 Hour
		Exterior walls 10'-30' from adjacent structures - 1 Hr			2 Hour
		•		·	
Fire Ratings - Interior	Table 1020.1	Exit access corridors - 0 Hour (with sprinkler system)	38.3.6	Exit Access Corridors need not be rated if	NA - none
				occupied by a single tenant/sprinklered	
	713.4	Shaft eclosures - 1 hr			3-story stairs estimated 1-hour
	Table 601	Int. nonloadbearing walls - 0 Hour			0 Hour
	Table 601	Floor Construction - 0 Hour	38.3.7	Subdivision of Building Spaces: NR	0 Hour
	Table 601	Roof construction - 0 Hour	20 2 2 2 0 7	No high hazard areas, no cooking	0 Hour
			38.3.2 > 8.7	equipment	No applicable conditions
	1011.7.3	Enclosures under stairs shall be 1 hour fire rated construction		equipment	Under-stair areas are not under tenant control
	1011.7.3	Linclosures under stairs strair be i frour life rated construction			Officer-stall areas are not under terraint confic
		L		_1	
Fire Door and Fire Shutter	Table 716.5	1 Hour shafts: 60 Minute Doors	Table 8.3.4.2	1hr Elevator Hoistways = 1hr doors	Existing non-compliant conditions - see plans
Fire Protection Ratings					James and the second se
			7	1hr stairs = 1hr doors / windows not	
				permitted	
Fire Window Assembly	Table 716.5	1 Hour shafts: Fire rated glazing meeting NFPA 252 per 716.5.6	Table 8.3.4.2	1 hr stairs = windows not permitted	Existing wired glass in doors and metal
Fire Protections Ratings	1				framed sidelights to remain

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	Table 705.8	Area Limitations - <3' from property line,unprotected, sprinklered - not			
		Area Limitations - 3'-5' from property line, unprotected, sprinklered - 15% Area Limitations - 5-10' from property line, unprotected, unsprinklered -			No shanges to evicting enemings
		25%			No changes to existing openings
	= =.=	las : .			
Fire Damper Rating	Table 717.3.2.1	45 minutes required			No changes to existing systems - not survey
Ducts and Air Transfer	717.5.1	Fire Walls - Fire Dampers required		Т	No changes to existing systems
Openings	717.5.1.1	Fire Walls in Horizontal Exits - Smoke Dampers required			No changes to existing systems
-	717.5.2.1	Fire Barriers in Horizontal Exits - Smoke Dampers required	1		No changes to existing systems
	717.5.3	Shaft Enclosures - Fire Dampers and Smoke Dampers required			No changes to existing systems
	717.5.4	Fire Partitions - Ducts penetrating fire partitions shall be equipped with fire dampers.			No changes to existing systems
Interior Flame Spread	Table 803.11	Required exit enclosures and passageways - B permitted in buildings			No changes to existing systems
Index	144.0		38.3.3.2.1	Walls & ceilings in exits- Class A or B	No changes to existing systems
		Corridors - C	38.3.3.3.2	Walls & ceilings in other areas- Class A B or C	No changes to existing systems
		Rooms or enclosed spaces - C			No changes to existing systems
Occupant Load	Table 1004.1.2		Table 7.3.1.2		
		Business use spaces = 1/100 GSF		Offices = 1/100 SF	
		1st Floor Mixed Occupancy: Not considered		First Floor: Not Considered	
		2nd Floor Office: Not considered		Second Floor: Not Considered	
		3rd Floor Office: 45 OCC		Third Floor: 45 Occupants	
L					
Means of Egress	1005.3	Egress width per occupant @ stairways = 0.3" x 45 = 13.5"	Table 7.3.3.1	Egress width per occupant @ stairways = 0.3" x 45 = 13.5 "	40" min. clear (32" min. clear between handrails)
		Egress width capacity per occupant @ doors and corridors = .2" x 45 = 9"		Egress width capacity = 0.2" per occupant @ level components & ramps .2 x 45 = 9"	
	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-	
	1010.1.6	width of not less than 36"	70400	1/2" obstructions at or below handrail	T 00!! D
	1010.1.1 Table 1017.2	Minimum door opening width = 32" clear Exit access travel < 300'	7.2.1.2.3 38.2.6.2	Minimum door opening width = 32" clear Length of travel to an exit < 200'	Typ. = 36" Doors = 34" net clear opening 93' Travel from second floor to exterior +67'
	Table 1017.2	_			160'
	1020.4	Dead ends ≤ 50' (Sprinklered)	38.2.5.2.1	Dead ends ≤ 50' (sprinklered)	No dead ends proposed
	Tacle 1006.2.1	Common path of travel ≤ 100' (sprinklered)	38.2.5.3.1	Common path of travel ≤ 100' (sprinklered)	to stairs door
	Table 1020.2	Minimum corridor width = 36" clear	7.3.4.1	Minimum corridor width = 36" clear	No corridor conditions proposed
	Table 1006.2.1	Single means of egress permitted with less than 49 occupants and 100'	38.2.4.1	Minimum number of exits = 2	Two exits provided

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	1007.1.1	Where two exits are required, they shall be separated by 1/3 the length o the diagonal of the area served (sprinkled).	f 7.5.1.3.5	Allows for existing buildings to be exempt from the minimum separation requirement	Existing exits are more than than 1/2 the building distance apart
Emergency Lighting	1008.2	Emergency lighting is required	38.2.9.1	Emergenct Lighting is required	Provided
	1013.1	Exit Signs are required	7.10.1.2	Exit Signs are required except at main exterior exit doors	Illuminated signage exists: Tactile Signage should be added
Fire Suppression Systems	903.2 > 903.2.7	No sprinkler system required	38.3.5.1	No sprinkler system required	Existing sprinkler system shall be modified to provide complete coverage
Standpipes	905.3	Standpipes are not required		I	No standpipe provided
Fire Alarm Systems	907.2.2	Automatic Fire Alarm System is not required - (assumes first floor occupancy of less than 400)	38.3.4.1	Fire alarm is required	Existing fire alarm will be retained
Smoke Detetectors	907.2.2	There is no requirement for smoke alarms	38.3.4 > 9.6.2.10	Smoke alarms not required	No smoke alarms will be provided
Extinguishment requirements	906	Portable fire extinguishers shall be installed as per NFPA 10 (IFC 2009)	38.3.5.3	Portable fire extinguishers required	Two Fire Extinguishers are installed in the space