	Project Name:	University of S	outhern Mai	ne	Project I	No: 3049.10
	Prepared By: Project Location	Martine Dion			Date:	03/08/ 20
Appli	cable Building Code	Portland, Mair	ie			-
DA A	tional Building Code 2003 ( ccessibility Guidelines					
	101The Life Safety Code 20 e section references are to		ted otherwis	e.		
	E GROUP CLASSIFICATION	ON:	Occupand	<u> </u>		
1.	BUILDING USE: USE GROUP:		Business			
2	(302)		В			
3.	OCCUPANCY SEPARAT between Use Groups	ION:		nrs		
	(IBC 303) (IBC table 303.3.2)		1	nrs w/ Sprinkler		
8. <u>COI</u>	NSTRUCTION CLASSIFIC	ATION (PROPOS	2B			
1.	TYPE OF CONSTRUCTION	DN:				
(a)	New Construction:		***************************************	· · · · · · · · · · · · · · · · · · ·		
(b)	Existing to remain:		2B			
2.	FIRE SEPARATION:					
	New Construction: Interior	Fit-up only				
	supancy 1 Business supancy 2				- -	
	Fire Resistance Ratings a	s follows: (Hours	Separation)			
	a. Exterior Wall, with fire Non-load-bearing (Tabl	•		Occupancy 1 Business	Provided	
	see Paragraph C, belo 0-5 feet w/ sp	rinklers		1	(Existing and Sprin	iklered)
		5 ft to 10 ft w/ spri 10 feet w/ sprinkle	rs	1 0	1 0	
	<ul><li>c. Fire Separation Assem</li><li>d. Shafts (Table 707.4)</li></ul>	nblies (Table 706.	Sprinkl.: 2 3.7)	2 2	2 2 2	
	e. Elevator Hoistways f. Exits (1017-1019)			2 2	2 2	
	<ul><li>g. Exit Stairways (1009)</li><li>h. Exit Access Corridors</li><li>i. Smoke Barriers</li></ul>	(Table 1016.1)		2 0 0	2 0 1	
	<ul><li>j. Non-Bearing Partitions</li><li>k. Floor Construction (inc</li></ul>	luding beams)		0	0 2	
	I. Roof Construction  Table 601, note d: Fire re	esistance reti-	nav ho	0 ed by one hour	1	
	when building is equipped				. Not allowed on	Exterior walls
(b)	Existing Construction  2HR - Sprinklered	:		***************************************		
	Fire Resistance Ratings a (IBC table 601)	s follows: (Hours	Separation)			
	<ul> <li>a. Exterior Wall, with fire Non-load-bearing (Tabl</li> </ul>	•			nveloppe and Core	
	0-5 feet w/ sp			1 hrs	BOCA 1999 2	
		oft to 10 ft w/ spri 10 feet w/ sprinkle		1 hrs 0 hrs hr 3 hrs	1 0 2	
	c. Fire Separation Assem d. Shafts (Table 707.4)	blies (Table 706.3	.7)	2 hrs 2 hrs	2	
	e. Elevator Hoistways f. Exits (1017-1019) g. Exit Stairways (1009)			2 hrs	2 2	
	h. Exit Access Corridors i. Smoke Barriers	(Table 1016.1)		2 hrs 0 hrs 0 hrs	2 0 1	
	<ul><li>j. Non-Bearing Partitions</li><li>k. Floor Construction (inc</li></ul>	luding beams)		0 hrs 0 hrs	0 2	
	I. Roof Construction  Table 601, note d: Fire i	resistance rating r	may be reduc	0 hrs	1	
	when building is equipped	with an automati	c sprinkler s	ystem throughout	Not allowed on	Exterior walls
3. a.	SPECIAL USES AND C	OCCUPANCIES	- SECTION	hrs		
b. c. d.				hrs hrs		
4.	BUILDING LIMITATIONS	S (TABLE 503	3)	-		
(a)	New Construction  ** Interior Fit up: No New a. Height Criteria:	v area**	Occupanc Business Story	<u>y 1</u> Feet		
	i. Table 503 ii. 504.2					
	(Increase - automatic fire iii. TOTAL	suppression)				
	b. Floor Area Criteria : i. Table 503 Base Area	a:		sf		
	ii. 506.4 Reduction iii. 506.3, increase for	•		%		
	iv. 506.2, Street Front: (2% area increase 30 feet minimum	for each 1% perin	neter over 25	% open perimeter	r with fire lane acces	ss and
	v. Maximum Allowat Base:	•	per fire zone	sf		
	506.4 Reducti	e (sprink.)		sf sf		
	506.2 Increase Total:	e (St. front)		sf sf		
(b)	Existing Construction		Occupanc Business	y 1		
	a. Height Criteria: i. Table 503		Story 4	<u>Feet</u> 65		
	ii. 504.2 (Increase - automatic fire iii. TOTAL	suppression)	1			
	b. Floor Area Criteria :					
	<ul><li>i. Table 503 Base Area</li><li>ii. Reduction</li><li>iii. 506.3, increase for</li></ul>			23,000 sf %		
	iv. 506.2, Street Fronta	age:	neter over 25	200 % 80 % % open perimeter	with fire lane acces	ss and
	30 feet minimum v. Maximum Allowat	width.)				
	Base: 506.4 Reducti 506.3 Increase			23,000 sf sf 46,000 sf		
	506.2 Increase Total:			25,300 sf 94,300 sf		
	Actual Floor Area					
	Basement Ground floor			8,640 sf 8,640 sf		
	2nd floor 3rd floor 4th floor		•	8,777 sf 8,777 sf 8,640 sf		
	5th floor			8,640 sf		
	-	<del></del>		sf sf		
	Total			52,114 sf		
ЕХТ	ERIOR WALL FIRE-RESIS	TANCE REQUES	EMENTS T	ABI F 602) -		

		E RESISTANCE RATING OF STRUCTURA	
		1 Requirements: The fire-resistance rating than the rating required for the assemblies	of structural members and assemblies shall not be supported
1	to ha	ave a fire resistive rating and support more th	mns, beams or other structural members which are required nan two floors shall be individually protected on all sides
	men		g the required fire resistance rating. All other structural ement, or by membrane or ceiling protection.
	<u> </u>	OCCUPANCY CALCULATIONS:	Occupancy 1
			Business Actual Calculated
		a. Maximum sq. ft. per Occupant (Table 1004.1.2)	100
		b. Maximum number of Occupant  Basement	86
		Ground Floor 2nd floor	86
		3rd floor 4th floor	88 86
		5th floor	86
2	2.	EGRESS WIDTH	
		Egree width per occupant When Sprinklered	0.2 inches at stairways 0.15 inches at doors, ramps and corridors
		(IBC Table 1005.1) EGRESS WIDTH: (for stairs)	Occupancy 1
		Zenzee Wild III. (lot stalls)	Business Total Egr. Width
		Basement	Occup. required 86 17.2 in.
		1st floor 2nd floor	86 17.2 in. 88 17.6 in.
		3rd floor 4th floor	88 17.6 in. 86 17.2 in.
		5th floor	86 17.2 in.
		EGRESS WIDTH: (for doors)	Total Egr. Width
		Basement 1st floor floor	Occup. required  86 12.9 in.
		1st floor floor 2nd floor 3rd floor	86 12.9 in. 88 13.2 in. 88 13.2 in.
		4th floor 5th floor	88 13.2 in. 88 13.2 in. 88 13.2 in.
3	3.	NUMBER OF EXITS REQUIRED:	Occupancy Load Minimum No. Exits
		(IBC Table 1018.1)	50 or less 1
			51 to 500 2 501-1000 3
		Occupancy:	Over 1000 4
		Business	2 exits required exits required
			exits required
		b. Maximum Length of Exit Access Travel	
		(IBC Table 1015.1)	300 ft. when sprinklered
		(NFPA 102, 5-5)	250 ft. to exit, when sprinklered.
		c. Minimum Exit Separation Distance (IBC 1014.2.1)	Minimum one-half of the maximum overall diagonal dimension of area served, Allowed one-third when sprinklered.
4		DEAD END CORRIDOR  Maximum Dead-End Corridor Length (IBC 10	**************************************
-		No corridors greater than	50 ft (Exception: sprinklers for group B)
٥		EGRESS PASSAGEWAY Minimum Egress Passage/Corridor Width (1020.2)	Occupancy Served Width (in.)
		(1020.2)	50 or more44
6	<b>S</b> .	EXIT PASSAGEWAYS (1020.2)	44 Minimum Width in inches
7		EXIT DOORS  a. Door leaf	Minimum Width: 36" (34" clear), Maximum Width: 48"
		All doors to be min. 36" wide	
		<ul> <li>b. Door swing in direction of travel for occup</li> <li>Doors to swing towards egress.</li> </ul>	pant load of 50 or more.
		c. Panic hardware	Required for doors serving area with occupant load of 100 or more.
		Corridor doors, and doors at exits to hav	re panic hardware.
8		STAIRWAYS (1009.0): a. Minimum egress width:	44_inches
		All stairs > 44" (48" for accessible means	
		b. Minimum landing width:	Not less than required stair width; need not exceed 4'-0" when stair has straight run.
		c. Headroom: d. Vertical rise per run: e. Riser height:	6'-8" minimum  12'-0" maximum  7" maximum
		e. Riser height: f. Tread depth	11" minimum
		g. Dimensional variation:	3/16" maximum between adjacent risers/treads  3/8" maximum in flight of stairs
		h. Handrails and guardrails: I. Egress doors:	See Section 9 & 10 Below  32 "min. governs per ADA, IBC requires 32"
		(IBC 1008.1.5)	
	j	(IBC 1008.1.5) j. Roof access stair (1009.12)	7 " maximum projection into egress width when fully open Required in buildings greater than 3 stories in height
9		HANDRAILS (1009.11):	
		a. Maximum Handrail Projection: b. Handrail Height:	3½ inches 34"
		c. Handrail Height:	12" horizontally beyond top riser
		d. Stairway Handrail Grip:	continue to slope for depth of one tread beyond bottom riser  1½" diameter minimum  2" diameter maximum
1	0.	GUARDRAILS (1012):	_ didinoter maximum
		a. Height:	42" minimum to top of rail
		b. Opening Limits:	4" sphere not to pass thru any opening. [IBC 1012.3] 6" sphere not to pass thru triangular opening at stair riser, tread
			and bottom rail. [IBC 1012.3]
	Table	MBING FIXTURES  = 4-1 Maine State Internal Plumbing Code Minimum Fixtures	Occupancy 1
1	. 1	Manufactures	Occupancy 1 School/Others (Colleges Universitie, Adult Centers
		Wate Closets - Male Wate Closets - Female	1 per 40 To be confirmed 1 per 30 To be confirmed
	-	Urinals (Male) Lavatories	1 per 35 To be confirmed 1 per 40 To be confirmed To be confirmed
		Drinking Fountains	1 per 150 To be confirmed
2	. (	Occupant load shall be 50 percent of each s	ex.

CODE PLAN LEGEND

----- S ----- SMOKE PARTITION

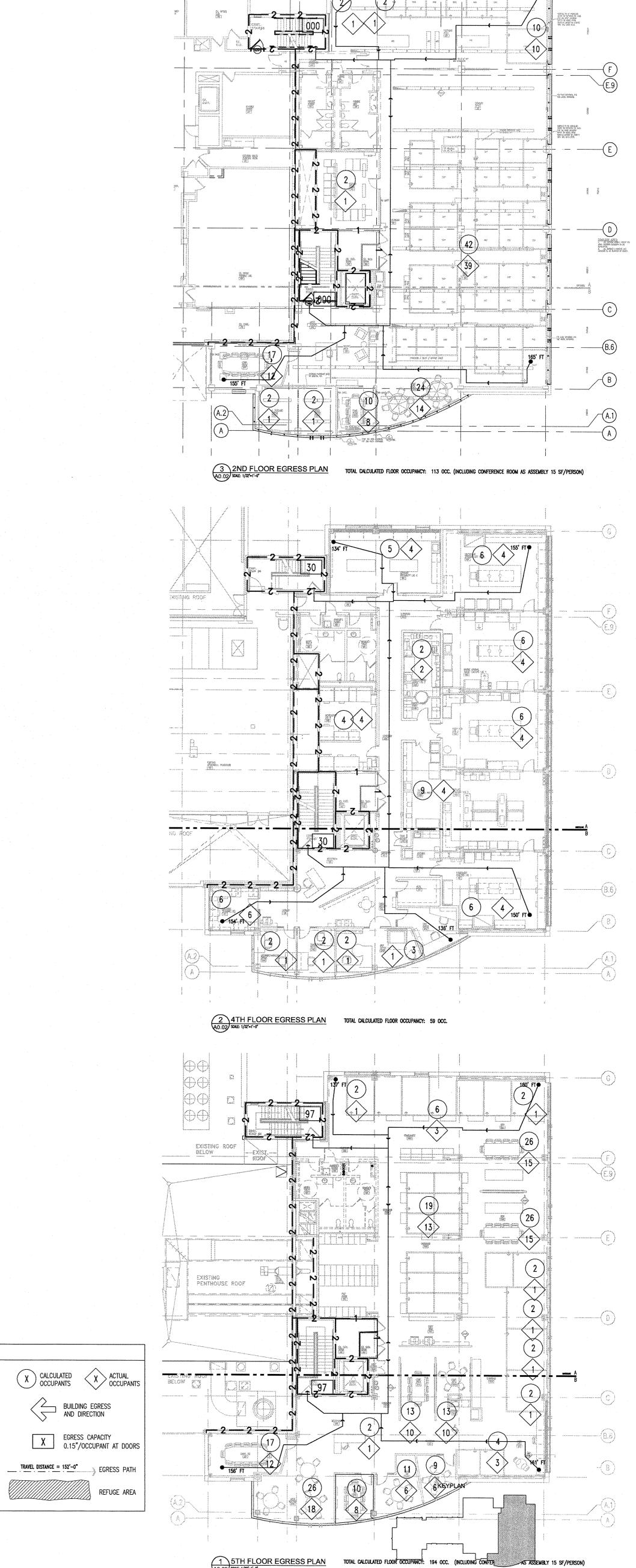
---- 1 ---- 1-HR RATED PARTITION

2—HR RATED PARTITION

— 2FW — 2-HR RATED FIREWALL

3-HR RATED FIREWALL

BUILDING EGRESS AND DIRECTION



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OWNER REVIEW

06.21.06 ISSUED FOR CONSTRUCTION
05.03.06 SCOPE REVISION 03.22.06 100% QC REVIEW

B 03.16.06 PROGRESS PRINT A 03.08.06 80% PROGRESS PRINT

NO. DATE DESCRIPTION ISSUE LOG

= CLOUDED CHANGE UNIVERSITY OF SOUTHERN MAINE 70 FALMOUTH STREET PORTLAND, MAINE

**RESEARCH WING** PHASE III FIT-OUT

BUILDING CODE DESIGN SUMMARY

1/32"=1'-0" DRAWN BY CHECKED BY PROJ. ARCH. / ENGR. MD PROJ. MGR. 03049.10 JOB NO. SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2004