CODE SUMMARY Applicable Codes • MUBEC - Maine Unform Building and Energy Code 2009 IECC: International Building Code - IBC (except chapters 11 and 30) 2009 IECC: International Energy Conservation Code • NFRP 101 Life Safety Accessibility Codes • UFAP Eni Life Safety • ADAGA Amarina Rights Ad. • ICC ANSI 117.1 Accessible and Usable Buildings and Facilities PROLECT SUMMARY: Historical adaptive rules of an existing convert building with internal chapel space in accordance with the National Park Service Guidenies for Rehabilitating Historic Buildings and the Maine Housing Unit Standards and Procedures Manual 2014 Edition. The work will enail the role (5) story building space into senior housing unit isocinal elements foor and existing (rehabilitating Historical elements foor and existing including including including, and the Maing, but not limited to, the unusing oxits apopets a	 Chapter 4- Special Detailed Requirements Based on Use and Occupancy 420 Group R-2 420.2 Separation Walls-Walls separating Dwelling Units from Dwelling Units and from other occupancies are Fire Partitions in accordance with Section 709 (1 hour rated). 420.3 Horizontal Separation - Floor Assemblies separating Dwelling Units from Dwelling Units and from other occupancies are Horizontal Assemblies in accordance with Section 712 (1 hour). Chapter 5- General Building Heights and Areas Table 503 Allowable Heights and Areas Residential - R-2 Type 3B Construction - 4 stories, 16,000 sf Assembly - A-3 Type 3B Construction - 2 stories, 9,500 sf 504.2 Automatic Sprinkler System Increase (Building Height) In buildings equipped with an NFPA 13 automatic sprinkler system, the maximum building height is increased by 20 feet and the maximum number of stories is increased by one. Construction Type 3B Group R-2: 5 stories Group R-2: 5 stories 506.0 Building Area Modifications 506.1 General Equation 5-1 Aa= {At+ [At x II] + [At x IS] Table 503 of Type 3B Construction. R-2 Residential Use A= 16,000 sf I + [At x IS] Table 503 for Type 3B Construction. R-2 Residential Use A= 16,000 sf I + 0 + (16,000 x 2) Aa= 48,000 sf Allowable building area per story (24, 1945f Proposed) Fe If open perimeter P= If total perimeter P= If total perimeter P= If total perimeter P= If total perimeter P= 20 (varies from 20' - 30') 	508 Mixed Use and Occupancy 508.1 General Exception 1. Occupancies separated in accordance with Section 509. 508.2 Mixed-Use Occupancies 508.4 Separated Occupancies Buildings or portions of buildings that comply with the provisions of this section shall be considered as separated occupancies. 508.4.1 Occupancy Classification Separated occupancies shall be individually classified in accordance with Section 302.1. Each separated space shall comply with this code based on the occupancy classification of that portion of the building. 508.4.3 Allowable height Each separated occupancy shall comply with the building height limitations based on the type of construction of the building in accordance with Section 503.1. Type 3B: Occupancy Allowed Increase Total Proposed R-2 Residential 4 Stories 1 Story 5 Stories 5 Stories A-3 Assembly 2 Stories - 2 Stories 2 Stories 508.4.4 Separation Individual occupancies shall be separated from adjacent occupancies in accordance with Table 508.4. Sprinkled building separation between A-3 and R-2 is 1 hour. 508.4.1 Construction 707 or horizontal assemblies constructed in accordance with Section 712, or both, so as to completely separate adjacent occupancies.	 Table 601 - Fire Resista <u>Building Element</u> Primary Structural Fram Bearing Walls Exterior Walls Interior Walls Non-Bearing Walls and Partitions. Exterior Non-Bearing Walls and Partitions, Interior Floor Construction and Secondary Members Roof Construction and Secondary Members 602.3 Type III Construct Exterior walls are to be are any materials permi Fire retardant t materials for fra less. The exter
 707 Fire Barriers (shafts, exit and floor opening enclosures) 707.3.1 Shaft enclosures shall comply with Section 708.4 (2 hours) 707.3.2. The fire resistance rating of exit enclosures shall comply with Section 1022.1 (2 hours). 707.5.1 Supporting construction shall be protected to required fire resistance rating of the fire barrier supported (freebocking is required in cavitae if shaft extends through the floor level) at every floor level. 707.6.1 Supporting construction shall be protected to required fire resistance rating of the fire barrier shall be protected to required fire resistance rating of the fire barrier shall be protected in accordance with Section 71.5. 707.6.2 Openings in fire barrier shall be protected in accordance with Section 71.5. 708.6 Openings shall be limited to a maximum aggregate width or 25% of length of wall, with max area of an passageways shall comply with Section 1022.3 and 1023.5. Exception 1: Openings not limited to 156 st or 25% of length of wall, with max area of an passageways shall comply with section 1023.5. Exception 1: Openings not limited to 156 st or 25% of length at fire door serving ext enclosures and passageways shall comply with section 102.3 and 102.5. Exception 1: Openings on timited to 156 st or 25% of length at fire door serving ext enclosures to be constructed as fire barriers 708.2 Fire barrier construction not required at piping, conduits, etc. penetrations if protected be resection 712.4 708.4 Shift enclosures (barling and the exceeding 2 hours. 708.4 Shift enclosures shall have a fire resistance rating where connecting 4 atbies or mole, and shall have a fire resistance rating where connecting 4 atbies or mole, and shall have a fire resistance rating where connecting 4 atbies or mole, and shall have a fire resistance rating where connecting 4 perinded but not exceeding 2 hours. 708.4 Shift enclosures shall have a fire resistance rating	 709 Fire Partitions (exit access corridors, dwelling unit separations, etc.) 709.3 Fire Resistance Ratings Fire partitions shall have a fire resistance rating of not less than 1 hour. Walls Separating Dwelling Units (420.2) Corridor Walls per Table 1018. 1/2 hour(when fully sprinklered per NFPA 13) 709.4 Continuity: Fire partitions shall extend from floor below to underside of floor/roof sheathing above. Supporting structure shall be protected similarly to wall. Fire blocking is not required if equipped with automatic sprinklere system and sprinklers are installed within combustible floor/ceiling and roof/ceiling spaces. 709.5 Where exterior walls serve as part of the required fire resistance rating separation, walls shall comply with Section 705 Exterior Walls and fire resistance rated requirements shall not apply. 712.3 Horizontal assemblies separating dwelling units shall be a minimum of 1 hour fire resistance rated construction. 712.3.1 Provide wire or other approved device above panels to prevent vertical displacement (ceiling assembly to remain in place) 712.3.2 Rated access doors permitted in fire rated ceiling assemblies. 713.1 Previtations 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). 713.2 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 	715.4 Fire Door and Shutter Assemblies Table 715.4 Type of Assembly Required Assembly Rating Min Door Assembly Rating (hrs) Fire Walls 3 hours 3 hours Fire Walls 3 hours 1-1/2 hours Other Fire Barriers 1 hour 3/4 hour Fire Partitions 1 hour 3/4 hour Fire Partitions 1 hour 3/4 hour Corridor walls 1 hour 1/3 hour Other fire partitions 1 hour 1/3 hour Smoke Barriers 1 hour 1/3 hour T15.4.3.1 Fire door assemblies shall meet requirements for smoke and draft control door assemblies 1/3 hour T17.2 In combustible construction fire barriers shall be installed to cut off concealed draft openings and form a barrier between floors. Fireblocking required at: 9 Vertically at floors and ceilings • Vertically at floors and ceilings • Horizontal spacing not exceeding 10 feet 9 Connections between horizontal and vertical spaces (soffits, dropped ceiling, etc.) • Stairways at top and bottom of run between stringers 9 Hping, vents, etc. T17.2 Fouchel Stud Walls Bacts or blankets of mineral or glass fiber insulation shall be allowed as fire blocking in walls constructed using parallel rows of studs or staggered studs. T17.2 Concealed Wall Spaces Fire	 717.4 Draft Stopping In 717.4.2 Group R-2 Not re Exception No. 2, Sprinkle 903.3.1.1. Chapter 8- Interior Finiss Table 803.9 Interior Wal By Occupancy- Sprinkle Group Exit Encloss A-3 Class E R-2 Class 0 Chapter 9- Fire Protection Table 903.2 Occupancy <u>Threshold</u> A-3 Fire area over 5 R-2 Sprinklers requi 903.3.1.1 NFPA 13 Sprint The building will be equip accordance with NFPA 1 903.3.2 Quick response of dwelling units. 903.4 Valve controlling we electronically supervised 905 Standpipe Systems 905.2 Standpipe Systems 905.3.1 Height- Class 1 St throughout with an auton
Chapter 10- Means of Egress 1004 Occupant Load Table 1004.1 Maximum Floor Area Allowances per Occupant 1 Assembly Assembly 1005 Egress Width <u>Function of Location Floor Area Occupants Area di Franses Space</u> Space Space Residential Level 1-5 10,018 of 121 x.3" 121 x.2" 267 Other Notes: 1. Aminimum of 2 egress or stair locations provided at each floor (36" wide doors and 44" wide stairs)	 1007 Accessible Means of Egress 1007.2.1 Elevators Required. In buildings where a required accessible floor is four or more stories above a level of exit discharge, at least one accessible means of egress shall be an elevator. (BACKUP GENERATOR REQ'D). 1007.3 Stairways Clear width 48". Not Required in buildings with automatic sprinkler system. Exception no. 2 Area of Refuge- Not Required in Group R-2, Exception no. 7 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" Exception no. 1. Minimu and maximum widths do not apply to door openings not part of the required means of egress in Group R-2 occupancies. 1008.1.4 Group R-2 occupancies building entry doors are permitted to be equipped with access control system. 1008.1.5 Provide a level landing on each side of door, except at exterior locations with 2% slope pitch for drainage. 1008.1.9.10 Interior stairway means of egress doors shall be openable from both sides. 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. 	1009 Stairways 1009.1 Stairway width- Minimum required width of 44" is provided. 1009.12 Handrails required on each side of stair. 1009.13. Stairway to Roof- In buildings four or more stories in height, one stairway shall extend to the roof surface. In buildings without an occupied roof, access to the roof from the top story shall be permitted to be by an alternating tread device. 1013.1 Guard (rails) are required at stairs more than 30" above the floor and within 36" horizontally to the edge of the open side. Section 1014 Exit Access 1014.3 Common Path of Egress Travel- 125' maximum per exception no. 4. In buildings with automatic sprinkler system, for Group R-2 occupancy. 100' maximum per exception No.1 in Group S occupancies. 1015.Exit and Exit Access Doorways 1015.1 Two exits required from any space except as permitted by Table 1015.1 1015.2.1 Two Exits or Exit Access Doorways= Exit doors shall be placed not less than 1/3 (exception #2) the length of the maximum overall diagonal dimension. Residential Floor Levels 1 - 5 Fire Area Max. Diagonal 1/3 Min. Actual 182-0" Assembly Space Fire Area Max. Diagonal 1/3 Min. Actual 5,073 sf 5,073 sf 122'-0" 40'-8" 107'-0"	 1016 Exit Access Trave Table 1016.1 Exit Access Occupancy A3-Assembly R2 -Residential 1018 Corridors Table 1018.1 Corridor F Occupancy A R-2 1018.2 Corridor Width: Exception No. 3: 36" min 1018.4 Dead Ends: 50" for Group R-2 Occupands buildings with automatic 1018.6 Corridor Contin from point of entry to an protected. Exception: Foy corridors shall for S409 Historic Buildings 3409 Historic Buildings 3409 Historic buildings The provisions of this cor restoration and movement mandatory for historic buildings Thistoric buildings that art listing in the National Rest the U.S. Department of registered historic district historic district; or 3. Dep preservation program the

