



CHARLES STREET CODE ANALYSIS - LIFE SAFETY

NFPA 101 2003 - CONSTRUCTION: I (I332), OCCUPANCY: NEW HEALTHCARE

| SECTION | SECTION DESCRIPTION | REQUIREMENT | COMMENTS |
|----------|-------------------------------|---------------|---|
| 6.1.5 | CLASSIFICATION OF OCCUPANCY | CHAPTER 18 | NEW HEALTHCARE OCCUPANCIES |
| 18.1.1.4 | ADDITIONS | CHAPTER 18 | NEW HEALTHCARE OCCUPANCIES |
| 18.1.6.4 | CONSTRUCTION TYPE LIMITATIONS | I(332) | (SEE FIRE RATINGS TABLE) |
| 18.1.7 | OCCUPANT LOAD FOR ALL LEVELS | TABLE 7.3.1.2 | 6,206 SF SUB-BASEMENT, MECHANICAL SPACE N/A 31,004 SF GROUND LEVEL, SPACES TOTALING 460 PEOPLE 31,485 SF SECOND LEVEL, SPACES TOTALING 243 PEOPLE 31,812 SF THIRD LEVEL, SPACES TOTALING 263 PEOPLE 31,485 SF FOURTH LEVEL, SPACES TOTALING 263 PEOPLE 28,826 SF FIFTH LEVEL, 96 PEOPLE + 6 PEOPLE FOR ELEVATOR MACHINE ROOM TOTALING 102 PEOPLE LEVEL COMPONENTS, HEALTH CARE, SPRINKLERED (102) STAIRWAYS, HEALTH CARE SPRINKLERED (103) |

TRAVEL DISTANCES

| TRAVEL FROM LOCATION TO EXIT | ALLOWED MAX. | PROVIDED | COMMENTS |
|---|--------------|--|----------|
| 200' BOCA 200' NFPA | SEE PLANS | EXIT ACCESS TRAVEL, TABLE 1006.5 REMOTE POINT TO NEAREST EXIT | |
| 1/3 OF THE DIAGONAL DIMENSION NFPA 2003 7.5.1.3.3 | SEE PLANS | 1006.4.1 REMOTENESS - EXITS OR EXIT ACCESS DOORS (FULLY SPRINKLERED) | |

CHARLES ST. FIRE RATINGS - LIFESAFETY

NFPA 101 2003 - NEW HEALTHCARE, FULLY SPRINKLERED* (I:332)

| ITEM DESCRIPTION | FIRE RATING | COMMENTS |
|--|-------------|----------|
| EXTERIOR BEARING WALLS | 3_HRS. | |
| INTERIOR BEARING WALLS SUPPORTING MORE THAN ONE FLOOR | 3_HRS. | |
| INTERIOR BEARING WALLS SUPPORTING ONE FLOOR ONLY | 2_HRS. | |
| COLUMNS SUPPORTING MORE THAN ONE FLOOR, COLUMNS, OR BEARING WALLS | 3_HRS. | |
| COLUMNS SUPPORTING ONE FLOOR ONLY | 2_HRS. | |
| BEAMS, GIRDERS, TRUSSES, AND ARCHES SUPPORTING MORE THAN ONE FLOOR | 3_HRS. | |
| BEAMS, GIRDERS, TRUSSES, AND ARCHES SUPPORTING ONE FLOOR ONLY | 2_HRS. | |
| FLOOR CONSTRUCTION | 2_HRS. | |
| ROOF CONSTRUCTION | 1-1/2_HRS. | |
| EXTERIOR NONBEARING WALLS | 0_HRS. | |

* INFORMATION TAKEN FROM 1999 NFPA 220 TABLE 3-1
FIRE RATINGS FOR STRUCTURAL ELEMENTS LISTED BELOW ARE PROVIDED AS REQUIRED BY BOCA 1999 FOR CONSTRUCTION TYPE 1B. THESE FIRE RATINGS WILL EQUATE TO A FUTURE IBC CODE CONSTRUCTION TYPE 1A TO ALLOW FOR FUTURE ADDITIONS

CHARLES ST. FIRE RATINGS - BUILDING CODE

BOCA 1999 - TABLE 602 CONSTRUCTION TYPE 1B

| ITEM DESCRIPTION | FIRE RATING | COMMENTS |
|---|-------------|--|
| EXTERIOR LOADBEARING WALLS | 3_HRS. | |
| EXTERIOR WALLS NON-LOADBEARING (WITH 0-5' FIRE SEPARATION) | 2_HRS. | |
| (WITH GREATER THAN 5'-10' FIRE SEPARATION) | 1_HRS. | |
| FIRE ENCLOSURE OF EXITS | 2_HRS. | |
| SHAFTS AND ELEVATOR HOISTWAYS | 2_HRS. | |
| OTHER NONBEARING PARTITIONS | 0_HRS. | |
| INTERIOR LOAD BEARING WALLS, PARTITIONS, COLUMNS AND FRAMING SUPPORTING MORE THAN ONE FLOOR | 3_HRS. | |
| SUPPORTING ONE FLOOR OR ROOF ONLY | 2_HRS. | |
| STRUCTURAL MEMBERS SUPPORTING WALL | 2_HRS. | |
| FLOOR CONSTRUCTION INCLUDING BEAMS | 2_HRS. | |
| ROOF CONSTRUCTION INCLUDING BEAMS, FRAMING AND ROOF DECK (15' OR LESS TO LOWEST MEMBER) | 1-1/2_HRS. | ROOF CONSTRUCTION OVER 20' HAS NO RATING REQUIREMENT |
| (MORE THAN 15' LESS THAN 20') | 1_HRS. | |

CHARLES ST. CODE ANALYSIS - BUILDING CODE

BOCA 1999 - CONSTRUCTION: TYPE 1B, OCCUPANCY: I-2

| SECTION | SECTION DESCRIPTION | REQUIREMENT | COMMENTS |
|-----------------------------|---|---------------------|--|
| 302.1, 308.3 | USE GROUP | I-2 INSTITUTIONAL | NEW FREE-STANDING BUILDING |
| SECTION 603-TABLE 602 | CONSTRUCTION CLASSIFICATION | 1B | EXISTING RICHARDS BUILDING BELIEVED TO BE 2A CONSTRUCTION WITH 2-HR FLOORS |
| TABLE 603-REQUIREMENTS | FLOOR ALLOWED - BASE REQUIREMENTS (AREA LIMITATION) | NOT LIMITED | NO ADJUSTMENTS ALLOWED |
| ACTUAL FLOOR AREAS PROVIDED | NUMBER OF FLOORS (GROSS AREA PER FLOOR) | NOT LIMITED | |
| | SUB-BASEMENT | 6,206 SF | |
| | BASEMENT | 13,024 SF | |
| | GROUND LEVEL | 31,004 SF | |
| | SECOND LEVEL | 31,485 SF | |
| | THIRD LEVEL | 31,812 SF | |
| | FOURTH LEVEL | 31,485 SF | |
| | FIFTH LEVEL | 28,826 SF | |
| | ELEVATOR MACHINE ROOM | 1,700 SF | |
| TABLE 503 | HEIGHT LIMITATIONS | NOT LIMITED | |
| | OCCUPANCY PER FLOOR | | |
| | SUB-BASEMENT | 6,206 SF | 21 PEOPLE |
| | BASEMENT | 13,024 SF | 118 PEOPLE |
| | GROUND LEVEL | 31,004 SF | 517 PEOPLE |
| | SECOND LEVEL | 31,485 SF | 242 PEOPLE |
| | THIRD LEVEL | 31,812 SF | 263 PEOPLE |
| | FOURTH LEVEL | 31,485 SF | 263 PEOPLE |
| | FIFTH LEVEL | 28,826 SF | 96 + 6(1,700 SF EL. MACH. RM.) = 102 PEOPLE |
| TABLE 1008.1.2 | NUMBER OF EXITS REQUIRED | | |
| | SUB-BASEMENT | 2 REQ. - 2 PROVIDED | |
| | BASEMENT | 2 REQ. - 2 PROVIDED | |
| | GROUND LEVEL | 3 REQ. - 3 PROVIDED | |
| | SECOND LEVEL | 2 REQ. - 2 PROVIDED | |
| | THIRD LEVEL | 2 REQ. - 2 PROVIDED | |
| | FOURTH LEVEL | 2 REQ. - 2 PROVIDED | |
| | FIFTH LEVEL | 2 REQ. - 2 PROVIDED | |
| TABLE 1010.2 | ELEVATOR MACHINE ROOM | 1 REQ. - 1 PROVIDED | |

General Notes:

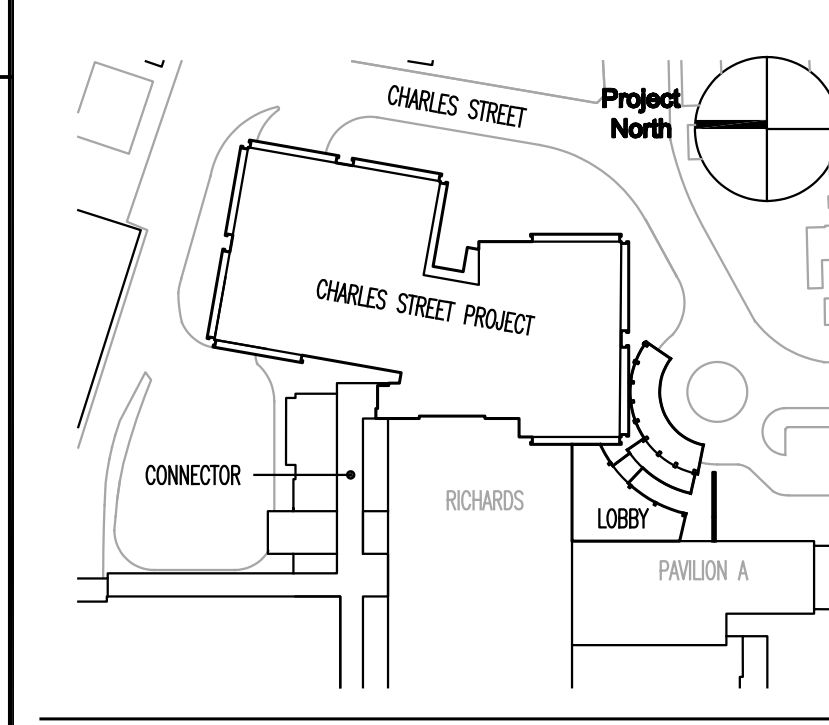
- LIFE SAFETY LEGEND**
- 1. RATED PARTITIONS ARE INDICATED AS FOLLOWS:
 - 1HR FIRE RATED PARTITION
 - 2HR FIRE RATED PARTITION
 - NON-RATED SMOKE RESISTANT PARTITION
 - 1HR SMOKE BARRIER
 - 2HR RATED FIRE AND SMOKE BARRIER
 - PATH OF EXIT TRAVEL
 - INDICATES EXIT LOCATION
 - SUITE (UNRATED)
 - CONNECTOR PROJECT SCOPE
 - EXISTING EGRESS STAR
 - POINT OF EGRESS ACCESS
 - PORTABLE FIRE EXTINGUISHER
 - EXIT SIGN
 - HOSE STATION

MARK ISSUE DATE DESCRIPTION

**FOR PERMIT ONLY
NOT FOR CONSTRUCTION**

PERMIT 09/24/04 PERMIT SET - NOT FOR CONSTRUCTION

Issue Log

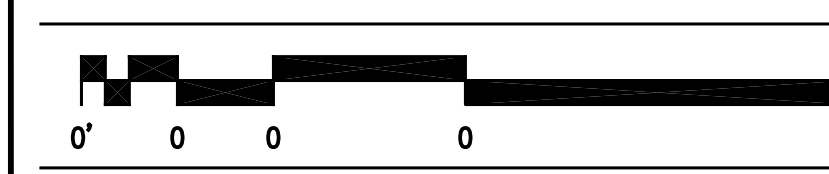


TRO
ARCHITECTURE
PLANNING
ENGINEERING
INTERIOR DESIGN

The Ritchie Organization
80 Bridge Street
Newton, MA 02459-1194
617-552-9100

Maine Medical Center
Charles Street Project
Portland, Maine MMC Project No. 21841

**GROUND FLOOR
LIFE SAFETY PLAN**



| | | | |
|----------------|------------------------|--------------|----|
| Commission No. | 4673 | Date Issued | |
| Scale | 1/16" = 1'-0" | Sheet Number | |
| Drawn By | JW | Approved By | BS |
| File Name | \\s01\proj\100\100.dwg | | |
| Created | 9/24/04 | | |

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