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 PROJECT: 21502.10

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RENOVATIONS TO THE  
 STEVENS AVENUE ARMORY

FIRST FLOOR  
 EGRESS AND  
 FIRE RATING  
 PLAN

SCALE: AS NOTED  
 DATE: 05-24-16  
 DWG. **G-102**  
 SHEET: 4 OF 169

**GENERAL SHEET NOTES:**

- SEE ARCHITECTURAL SHEETS FOR WALL TYPES AND FIRESTOPPING OF JOINTS AND PENETRATIONS.
- EXTEND WALL RATINGS TO UNDERSIDE OF FLOOR DECK OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. WHERE WALL INTERSECTS A PARALLEL STRUCTURAL BEAM, BEAM SHALL HAVE GYPSUM ENCLOSURE TO PROVIDE THE SAME FIRE RESISTANCE AS THE WALL.
- STAIR WALLS AND CEILINGS AND THE EXIT PASSAGEWAY (STAIR S02 DISCHARGE) SHALL NOT BE PENETRATED FROM EITHER SIDE WITH EXCEPTION OF CONDUIT FOR LIGHTING OF THE STAIR OR SPRINKLER PIPING.
- SHADED AREAS INDICATE A RATING IS REQUIRED ON THE FLOOR/CEILING ASSEMBLY ABOVE.

**KEYNOTES: (THIS SHEET ONLY)**

- ENTRY 100 AND ENTRY 125 BOTH SERVE AS MAIN EXITS FOR THE BUILDING. THESE PROVIDE CAPACITY FOR HALF OF ASSEMBLY OCCUPANTS:
  - PRE-FUNCTION/SMALL FUNCTION ROOM AND ADJACENT STUDY ROOMS: 646/2=323
  - FUNCTION ROOM: 1,316/2=658
  - CLASSROOMS: (94+90)/2=91
  - 323+658+91=1,072
  - CAPACITY IS 660+660=1,320
- ASSEMBLY AND BUSINESS OCCUPANCIES ARE ISOLATED BY 1 HOUR FIRE BARRIER OCCUPANCY SEPARATION.

**FIRE RATINGS/FIRE RATING KEYNOTES**

- 1 --- 1 --- 1 --- OR  $\Delta$  FIRE BARRIER WALL: 1-HOUR FIRE RESISTANCE RATING WITH 60-MINUTE OPENING PROTECTION AND 1-HOUR FIRESTOPPING AT PENETRATIONS AND JOINTS.
- 2 --- 2 --- 2 --- OR  $\Delta$  FIRE BARRIER WALL: 2-HOUR FIRE RESISTANCE RATING WITH 90-MINUTE OPENING PROTECTION AND 1-HOUR FIRESTOPPING AT PENETRATIONS AND JOINTS.
- 1 --- 1 --- 1 --- OR  $\Delta$  OCCUPANCY SEPARATION WALL: 1-HOUR FIRE RESISTANCE RATING WITH 45-MINUTE OPENING PROTECTION AND 1-HOUR FIRESTOPPING AT PENETRATIONS AND JOINTS.
- SB --- SB --- SB --- OR  $\Delta$  SMOKE BARRIER WALLS: SMOKE RESISTANT SEALANT AT PENETRATIONS AND JOINTS. SELF-CLOSING AND LATCHING DOORS WITH GASKETING. SMOKE DAMPERS AT DUCTWORK PENETRATIONS.
- 1SB --- 1SB --- 1SB --- 1SB --- OR  $\Delta$  COMBINATION 1-HOUR FIRE BARRIER AND SMOKE BARRIER WITH PROTECTION AS IDENTIFIED ABOVE.
- 2SB --- 2SB --- 2SB --- 2SB --- OR  $\Delta$  COMBINATION 2-HOUR FIRE/SMOKE BARRIER (2-HOUR RATED SEPARATION WITH 90 MINUTE OPENING PROTECTION AND SMOKE BARRIER)
- SP --- SP --- SP --- SP --- OR  $\Delta$  SMOKE PARTITION WALLS: SMOKE RESISTANT SEALANT AT PENETRATIONS AND JOINTS. AND SELF-CLOSING AND LATCHING DOORS.
- FIRE BARRIER HORIZONTAL ASSEMBLY: 1-HOUR FIRE RATED HORIZONTAL FLOOR/CEILING ASSEMBLY WITH 60-MINUTE OPENING PROTECTION AND 1-HOUR FIRESTOPPING AT PENETRATIONS AND JOINTS.
- OCCUPANCY SEPARATION HORIZONTAL ASSEMBLY: 1-HOUR FIRE RATED HORIZONTAL FLOOR/CEILING ASSEMBLY WITH 45-MINUTE OPENING PROTECTION AND 1-HOUR FIRESTOPPING AT PENETRATIONS AND JOINTS.

**LEGEND**

- > TRAVEL PATH
- XXX > OCCUPANTS UTILIZING EXIT
- XXX > EGRESSING OCCUPANTS (EN-ROUTE TO EXIT)
- CP COMMON PATH OF TRAVEL
- DE DEAD-END LENGTH
- LF LINEAR FEET
- OL OCCUPANT LOAD
- OLF OCCUPANT LOAD FACTOR
- SF SQUARE FEET
- TD TRAVEL DISTANCE

EXTERIOR DOOR 153B	
WIDTH	CAPACITY
DOOR 32"	160
STAIR NA	-
LIMIT	160
USE	28

VESTIBULE 116A	
WIDTH	CAPACITY
DOOR 66"	330
LIMIT	330
USE	167

ENTRY 125	
WIDTH	CAPACITY
DOOR 132"	660
LIMIT	660
USE	618

EXTERIOR DOOR 116	
WIDTH	CAPACITY
DOOR 66"	330
LIMIT	330
USE	167

VERTICAL OPENING 2	
WIDTH	CAPACITY
DOOR 64"	320
STAIR NA	-
LIMIT	320
USE	84*

\* SECOND FLOOR USE IS 127

EXTERIOR DOOR 102A	
WIDTH	CAPACITY
DOOR 44"	220
LIMIT	220
USE	47

EXTERIOR DOOR 101A	
WIDTH	CAPACITY
DOOR 44"	220
LIMIT	220
USE	45

EXTERIOR DOOR 104E	
WIDTH	CAPACITY
DOOR 44"	220
LIMIT	220
USE	165

EXTERIOR DOOR 104F	
WIDTH	CAPACITY
DOOR 44"	220
LIMIT	220
USE	165

EXTERIOR DOOR 104G	
WIDTH	CAPACITY
DOOR 44"	220
LIMIT	220
USE	164

EXTERIOR DOOR 104H	
WIDTH	CAPACITY
DOOR 44"	220
LIMIT	220
USE	164

ENTRY 100	
WIDTH	CAPACITY
DOOR 132"	660
LIMIT	660
USE	580

**1 FIRST FLOOR EGRESS AND FIRE RATING PLAN**  
 6-102 SCALE: 3/32"=1'-0"

