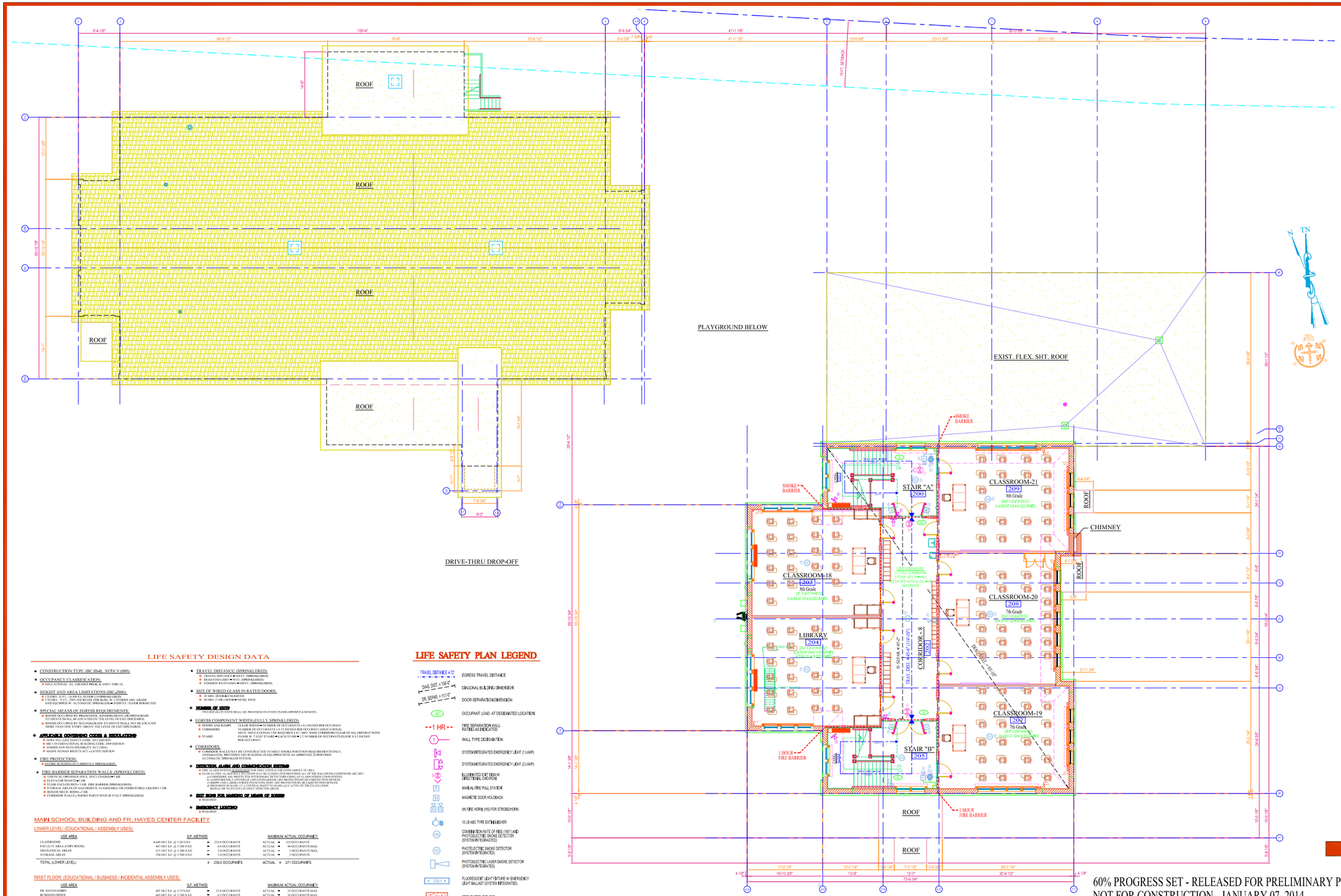

LIFE SAFETY DESIGN DATA

- CONSTRUCTION TYPE: IBC IIB-hl; NFPA V (000)
- OCCUPANCY CLASSIFICATION:
  - EDUCATIONAL (E) GRADES PRE-K, K AND 1 THRU 8)
- HEIGHT AND AREA LIMITATIONS (IBC-2006):
  - 2 STORY, 35 FT., 14,500 S.F. FLOOR (UNSPRINKLERED)
  - 3 STORY, 55 FT., 14,500 S.F. FLOOR (SPRINKLERED) THIS ABV. GRADE AND EQUIPPED W. AUTOMATIC SPRINKLER ■ 29,000 S.F. FLOOR PERMITTED
- SPECIAL MEANS OF EGRESS REQUIREMENTS:
  - ROOMS OCCUPIED BY PRE-SCHOOL, KINDERGARTEN, OR FIRST-GRADE STUDENTS SHALL BE LOCATED ON THE LEVEL OF EXIT DISCHARGE.
  - ROOMS OCCUPIED BY TECONG-GRADE STUDENTS SHALL NOT BE LOCATED MORE THAN ONE STORY ABOVE THE LEVEL OF EXIT DISCHARGE.
- **APPLICABLE GOVERNING CODES & REGULATIONS:**
  - NFPA 101® LIFE SAFETY CODE, 2012 EDITION
  - IBC - INTERNATIONAL BUILDING CODE 2009 EDITION
  - AMERICANS WITH DISABILITY ACT (ADA)
  - MAINE HUMAN RIGHTS ACT - LATEST EDITION
- FIRE PROTECTION:
  - ENTIRE BUILDING IS CURRENTLY SPRINKLERED.
- FIRE BARRIER SEPARATION WALLS: (SPRINKLERED):
  - 1HR VERTICAL OPENINGS (INCL. DUCT CHASES) ■ 1 HR.
  - ELEVATOR SHAFT ■ 1 HR.
  - STAIR ENCLOSURES ■ 1 HR. FIRE BARRIER (SPRINKLERED).
  - STORAGE AREAS OF HAZARDOUS, FLAMMABLE OR COMBUSTIBLE LIQUIDS ■ 1 HR.
  - BOILER HEATING ROOM ■ 1 HR.
  - CORRIDOR WALLS ■ SMOKE PARTITIONS (IF FULLY SPRINKLERED)
- TRAVEL DISTANCE: (SPRINKLERED):
  - TRAVEL DISTANCE ■ 300 FT. (SPRINKLERED)
  - DEAD END LIMIT ■ 50 FT. (SPRINKLERED)
  - COMMON PATH LIMIT ■ 200 FT. (SPRINKLERED)
- SIZE OF WIRED GLASS IN RATED DOORS:
  - 20 MIN. DOOR ■ UNLIMITED
  - 60 MIN. (1 HR. DOOR ■ 100 SQ. INCH.
- **NUMBER OF EXITS:**
  - TWO EXIT-WAYS EXITS SHALL BE PROVIDED ON EVERY FLOOR (OPPOSITE & REMOTE)
- EGRESS COMPONENT WIDTH (FULLY SPRINKLERED):
  - DOORS AND RAMPS — CLEAR WIDTH ■ NUMBER OF OCCUPANTS x 0.2 INCHES PER OCCUPANT
  - CORRIDORS — NUMBER OF OCCUPANTS x 0.15 INCHES PER OCCUPANT (EDUCATIONAL NOTE: EDUCATIONAL USE REQUIRES 6 FT. MIN. WIDE CORRIDORS CLEAR OF ALL OBSTRUCTIONS.
  - STAIRS — FLOOR TO EXIT STAIRS ■ EACH STAIR ■ 0.3 INCHES PER OCCUPANT/FLOOR X 0.2 INCHES PER OCCUPANT
- CORRIDORS:
  - CORRIDOR WALLS MAY BE CONSTRUCTED TO MEET SMOKE PARTITION REQUIREMENTS ONLY; WHEN THE BUILDING IS FULLY SPRINKLERED AND THE BUILDING IS EQUIPPED WITH AN APPROVED, SUPERVISED AUTOMATIC SPRINKLER SYSTEM.
- **DETECTION, ALARM AND COMMUNICATION SYSTEMS:**
  - FIRE ALARM SYSTEM IS REQUIRED FOR EDUCATIONAL USE OVER 12000 SF IN AREA
  - NO ALARM SYSTEM IS REQUIRED WHERE ALL OF THE FOLLOWING CONDITIONS ARE MET:
    - a) CORRIDORS ARE PROTECTED WITH SMOKE DETECTORS CONNECTED TO ALARM VERIFICATION SYSTEM
    - b) CLASSROOMS, CAFETERIAS AND GYMNASIUMS ARE PROTECTED BY HEAT DETECTION DEVICES.
    - c) ALL CLASSROOMS HAVE DOORS OPENING DIRECTLY TO EXTERIOR OF BUILDING
    - d) PROVISION IS MADE AT A CENTRAL POINT TO MANUALLY ACTIVATE THE EVACUATION SIGNAL OR TO SOUND ONLY AFFECTED AREAS.
- **EXIT SIGN FOR MARKING OF MEANS OF EGRESS:**
  - REQUIRED
- **EMERGENCY LIGHTING:**
  - REQUIRED

MAIN SCHOOL BUILDING AND FR. HAYES CENTER FACILITY

LOWER LEVEL: (EDUCATIONAL / ASSEMBLY USES):

USE AREA	S.F. METHOD		MAXIMUM ACTUAL OCCUPANCY
CLASSROOMS	4,649 NET S.F. @ 1.20 N.S.F.	= 252.8 OCCUPANTS	ACTUAL = 229 OCCUPANTS MAX.
FACULTY AREA (COPY ROOM)	485 NET S.F. @ 3.00 N.S.F.	= 8.0 OCCUPANTS	ACTUAL = 40 OCCUPANTS MAX.
MECHANICAL AREAS	673 NET S.F. @ 1.500 N.S.F.	= 0.0 OCCUPANTS	ACTUAL = 0 OCCUPANTS MAX.
STORAGE AREAS	594 NET S.F. @ 1.500 N.S.F.	= 1.0 OCCUPANTS	ACTUAL = 3 OCCUPANTS
TOTAL (LOWER LEVEL)		= 239.0 OCCUPANTS	ACTUAL = 271 OCCUPANTS

FIRST FLOOR: (EDUCATIONAL / BUSINESS / INCIDENTAL ASSEMBLY USES):

USE AREA	S.F. METHOD		MAXIMUM ACTUAL OCCUPANCY
FR. HAYES LOBBY	481 NET S.F. @ 1.15 N.S.F.	= 33.0 OCCUPANTS	ACTUAL = 33 OCCUPANTS MAX.
BUSINESS OFFICE	645 NET S.F. @ 1.500 N.S.F.	= 43 OCCUPANTS	ACTUAL = 56 OCCUPANTS MAX.
CLASSROOMS	5,462 NET S.F. @ 1.20 N.S.F.	= 273.5 OCCUPANTS	ACTUAL = 243 OCCUPANTS MAX.
KITCHEN	430 NET S.F. @ 1.500 N.S.F.	= 4.0 OCCUPANTS	ACTUAL = 4 OCCUPANTS MAX.
STORAGE AREAS	574 NET S.F. @ 1.500 N.S.F.	= 1.0 OCCUPANT	ACTUAL = 2 OCCUPANTS
GYMNASIUM - ASSEMBLY			
a) MOVABLE SEATING AREA	3,234 NET S.F. @ 1.7 N.S.F.	= 440.0 OCCUPANTS	ACTUAL = 435 OCCUPANTS MAX.
b) STANDING AREA	652 NET S.F. @ 1.7 N.S.F.	= 93.0 OCCUPANT	ACTUAL = 93 OCCUPANTS
STAGE	739 NET S.F. @ 1.15 N.S.F.	= 49.2 OCCUPANTS	ACTUAL = 36 OCCUPANTS MAX.
TOTAL (FIRST FLOOR LEVEL)		= 907.0 OCCUPANTS	ACTUAL = 871 OCCUPANTS

SECOND FLOOR: (EDUCATIONAL / LIBRARY USES):

USE AREA	S.F. METHOD		MAXIMUM ACTUAL OCCUPANCY
LIBRARY	703 NET S.F. @ 5.50 N.S.F.	= 14.0 OCCUPANTS	ACTUAL = 50 OCCUPANTS MAX.
CLASSROOMS	2,772 NET S.F. @ 1.20 N.S.F.	= 138.6 OCCUPANTS	ACTUAL = 108 OCCUPANTS MAX.
TOTAL (SECOND FLOOR LEVEL)		= 152.6 OCCUPANTS	ACTUAL = 158 OCCUPANTS
TOTAL OCCUPANCY LOAD (ALL BUILDINGS & ALL FLOORS)		= 1,299.6 OCCUPANTS	ACTUAL = 1,280 OCCUPANTS MAXIMUM

LIFE SAFETY PLAN LEGEND

- EGRESS TRAVEL DISTANCE
- DIAGONAL BUILDING DIMENSION
- DOOR SEPARATION DIMENSION
- OCCUPANT LOAD AT DESIGNATED LOCATION
- FIRE SEPARATION WALL RATING AS INDICATED
- WALL TYPE DESIGNATION
- SYSTEM INTEGRATED EMERGENCY LIGHT (1 LAMP)
- SYSTEM INTEGRATED EMERGENCY LIGHT (2 LAMP)
- ILLUMINATED EXIT SIGN W/ DIRECTIONAL CHEVRON
- MANUAL FIRE PULL STATION
- MAGNETIC DOOR HOLDBACK
- (M) FIRE HORN (HS) FOR STROBE/HORN
- 10 LB ABC TYPE EXTINGUISHER
- COMBINATION RATE OF RISE (135°) AND PHOTOELECTRIC SMOKE DETECTOR (SYSTEM INTEGRATED)
- PHOTOELECTRIC SMOKE DETECTOR (SYSTEM INTEGRATED)
- PHOTOELECTRIC LASER SMOKE DETECTOR (SYSTEM INTEGRATED)
- FLUORESCENT LIGHT FIXTURE W/ EMERGENCY LIGHT BALLAST (SYSTEM INTEGRATED)
- FIRE RATED CEILING
- ROOMNAME / 102 — ROOM NAME & NUMBER
- (E) EXISTING COMPONENT OR DEVICE
- (R) REMOVE EXISTING COMPONENT OR DEVICE
- (N) NEW COMPONENT OR DEVICE

SECOND FLOOR - LIFE SAFETY PLAN

1/8" = 1'-0"

GRAPHIC SCALE

0 5' 10' 20' 50'

60% PROGRESS SET - RELEASED FOR PRELIMINARY PRICING
NOT FOR CONSTRUCTION - JANUARY 07, 2014

ST. BRIGID SCHOOL - RESTROOM PROJECT
CATHOLIC DIOCESE OF PORTLAND
695 STEVENS AVENUE
PORTLAND, MAINE

FHR-LS-202

NO.	REL. FOR PERMITTING ONLY - JAN. 07, 2014

DAVID D. LEASURE - ARCHITECTURAL ASSOCIATES INC.
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PROJECT NO: 082713 PROJECT TITLE: ST. BRIGID SCHOOL RESTROOM PROJECT
SCALE: 1/8" = 1'-0" SHEET TITLE: SECOND FLOOR - LIFE SAFETY PLAN

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