Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 07/12/13

AREA OF REFUGE SYSTEM SYMBOL LEGEND

A-4208	AREA OF REFUGE ANNUNCIATOR (8-ZONE)	CORNELL A-4208	CORNELL BB-
APS	AREA OF REFUGE 24VDC POWER SUPPLY	CORNELL B-5243A	SUPPLIED WITH UNIT
AR	AREA OF REFUGE STATION	CORNELL 4201B/V	2-GANG BOX

AREA OF REFUGE WIRE LIST

B	RESCUE ASSISTANCE STATION - 22 AWG 4 CONDUCTOR NON-SHIELDED NON-PLENUM RATED: CMR — PLENUM RATED: CMP ANIXTER SG2204N11 — ANIXTER SG2204N22 AREA = 0.0172 SQ. INCH — AREA = 0.0160 SQ. INCH
C	AUDIO RESCUE ASSISTANCE STATION - 22 AWG 2 CONDUCTOR SHIELDED NON-PLENUM RATED: CMR — PLENUM RATED: CMP ANIXTER SG2202S41 — ANIXTER SG2202S22 AREA = 0.0255 SQ. INCH — AREA = 0.0120 SQ. INCH

CONDUIT SIZE	CONDUCTOR AREA	CONDUIT SIZE	CONDUCTOR AREA
1/2"	0.12 SQ INCH *	1-1/4"	0.60 SQ INCH *
3/4"	0.21 SQ INCH *	1-1/2"	0.82 SQ INCH *
1"	0.34 SQ INCH *	2"	1.34 SQ INCH *

* 40% FILL 2005 N.E.C.

CONTACT YOUR LOCAL SIMPLEXGRINNELL OFFICE FOR ANY CABLE SUBSTITUTIONS

RISER DIAGRAM
NOT TO SCALE

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
AP	ANNUNCIATION PANEL
FACP	FIRE ALARM CONTROL PANEL
KB	KNOX BOX
FS	FLOW SWITCH
PS	PRESSURE SWITCH
TS	TAMPER SWITCH
HS	HORN AND STROBE LIGHT M = "MINI" TYPE
H	HORN UNIT
S	STROBE LIGHT
F	PULL STATION
S	SMOKE DETECTOR
SD	DUCT SMOKE DETECTOR
D/250	FIRE/SMOKE DAMPER
H	HEAT DETECTOR
H D	DUCT HEAT DETECTOR
CO	CARBON MONOXIDE DETECTOR W/ BATTERY BACKUP
S SB	SMOKE DETECTOR W/ SOUNDER BASE LOCAL ONLY W/ BATTERY BACKUP
S S SB	SMOKE DETECTOR W/ SOUNDER BASE LOCAL ONLY W/ BATTERY BACKUP AND STROBE (ACCESSIBLE ROOMS ONLY)
S	SMOKE DETECTOR LOCAL ONLY W/ BATTERY BACKUP
S CO	COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR LOCAL ONLY W/ BATTERY BACKUP

EMERGENCY LIGHTING LEGEND

SYMBOL	DESCRIPTION
	LIGHTS IN ALL PUBLIC AREAS AND AREAS REQUIRED TO BE ILLUMINATED IN AN EMERGENCY SHALL BE CONNECTED TO THE EMERGENCY BACKUP GENERATOR.
	LIGHTED EXIT SIGN. DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE FACES.

FIRE EXTINGUISHER NOTES:

1. PROVIDE PORTABLE FIRE EXTINGUISHERS AS SHOWN AT A MINIMUM AND IN ACCORDANCE WITH NFPA 10.
2. PROVIDE MINIMUM 10 lb. AT WORK AREA, HOUSEKEEPING, MAINTENANCE, PANTRY/FOOD PREP, AND LAUNDRY.
3. PROVIDE TYPE AS REQUIRED FOR THE GIVEN HAZARD AT EACH LOCATION.

FIRE ALARM & EMERGENCY LIGHTING NOTES:

1. FIRE ALARM & EMERGENCY LIGHTING SHALL CONFORM TO ALL LOCAL, STATE, AND FEDERAL STANDARDS, CODES, AND GUIDELINES.
2. SIGNIFICANT DESIGN ALTERATIONS, ADDITIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL BEFORE PROCEEDING.
3. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE ELECTRICAL SYSTEM INSTALLATION WITH ALL TRADES INCLUDING MECHANICAL, ARCHITECTURAL, STRUCTURAL, AND PLUMBING.
4. ALL FIRE ALARM SYSTEM EQUIPMENT, DEVICES AND RELATED COMPONENTS SHALL BE U.L. LISTED. THE INSTALLATION, LOCATION AND SPACING OF SUCH DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 72 AND AS OTHERWSE SPECIFIED BY LOCAL CODES. STROBE NOTIFICATION APPLIANCES SHALL BE PROVIDED IN ACCORDANCE WITH FEDERAL ACCESSIBILITY RULE (28 CFR 36, APPENDIX A, SEC. 4.28) AS TO NUMBER, LOCATIONS, SPACING AND VISUAL INTENSITY.
5. GUESTROOM AND SUITES SHALL BE EQUIPPED WITH SMOKE DETECTORS, WHICH SHALL BE HARD-WIRED AND LOCALLY ANNUNCIATED (WITHIN EACH ROOM). SMOKE DETECTORS WITHIN ACCESSIBLE GUESTROOMS AND ACCESSIBLE SUITES (BEDROOM AND PARLOR) SHALL BE EQUIPPED WITH AN INTEGRAL STROBE LIGHT PROVIDING A VISUAL INTENSITY OF 177cd. THE PANEL MUST NOT BE LOCATED IN THE BACK WALL FACING THE REGISTRATION DESK.
6. ALL FIRE ALARM DEVICES TO BE CAT. 30 KEYED.
7. ELECTRICAL CONTRACTOR IS TO PROVIDE FIRE ALARM SYSTEM DEVICE SUBMITTALS AND CIRCUITED DRAWINGS, CALCULATIONS ETC. FOR APPROVAL PRIOR TO INSTALLATION.
8. ALL MEANS OF EGRESS INCLUDING THE EXIT DISCHARGE SHALL BE PROVIDED WITH EMERGENCY LIGHTING WITH EMERGENCY POWER. THE EMERGENCY POWER SYSTEM SHALL PROVIDE A MIN. OF 90 MINUTES OF POWER. EMERGENCY LIGHTING SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE AND A MINIMUM AT ANY POINT OF 0.1 FOOT-CANDLE MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL.
9. EACH DEVICE SHALL BE ADDRESSIBLE AND FIRE ALARM SYSTEM SHALL BE ZONED BY FLOOR AND FURTHER DIVIDED INTO INDIVIDUAL WINGS OF THE BUILDING.
10. ANNUNCIATOR PANEL SHALL BE GRAPHIC DESIGN TYPE WITH A MAP OF THE BUILDING'S FLOORS. PANEL SHALL BE KEY OPERATED.
11. THERE SHALL BE A FLOW SWITCH FOR EACH FLOOR.
12. PROVIDE CARBON MONOXIDE DETECTORS ADJACENT TO ALL FIREPLACES.
13. PROVIDE SUPPLY AIR SMOKE DETECTORS IN HVAC DUCTS.
14. WHERE FEASIBLE DEVICES SHALL BE STACKED VERTICALLY OVER EACH OTHER AND SHALL NOT BE PLACED ON ACCENT WALLS.
15. PROVIDE CARBON MONOXIDE DETECTION DEVICE(S) IN ALL RESIDENTIAL 6TH FLOOR UNITS. DETECTORS SHALL BE LOCATED OUTSIDE EACH SEPARATE SLEEPING AREA.
16. A SMOKE DETECTOR INSTALLED WITHIN 20' OF A BATHROOM OR KITCHEN MUST BE A PHOTO ELECTRIC TYPE DETECTOR BUT SMOKE DETECTORS IN BEDROOMS MAY BE IONIZATION TYPE DETECTORS.
17. IN GROUP R-2 OCCUPANCIES (@ 6TH FLOOR) ALL DWELLING UNITS AND SLEEPING UNITS SHALL BE PROVIDED WITH CAPABILITY TO SUPPORT VISIBLE ALARM NOTIFICATION APPLIANCES IN ACCORDANCE WITH ICC A117.1. ALL DEVICES SHALL BE HARD-WIRED AND LOCALLY ANNUNCIATED (WITHIN EACH ROOM).

NOTES:

BIDIRECTIONAL AMPLIFIER SYSTEM TO BE PROVIDED AND INSTALLED BY SIDEBAND SYSTEMS.
CONTACT INFORMATION AT SIDEBAND IS AS FOLLOWS:
JACK DAVIS, CEO/PRESIDENT SIDEBAND SYSTEMS
PHONE: (978) 922-4298 EXT. 301
FAX: (978) 922-4462
EMAIL: JDAVIS@SIDEBANDSYS.COM

BENNETT ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475

REVISION SCHEDULE

DATE	REVISION DESCRIPTION	BY

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COPECHEE
CONSTRUCTION CORPORATION
11 CORPORATE DRIVE, BELMONT NH 03220
PHONE (603) 527-9090 FAX (603) 527-9191

FIRE ALARM LEGEND, DETAILS AND SCHEDULES

PROJECT:
COMMERCIAL & MAPLE STREET
MIXED USE DEVELOPMENT
PORTLAND ME.

DATE: 05-20-2013
SCALE: 1/8" = 1'-0"
DRAWN BY: PMC

SHEET: FA7