



Important! Duplicate Addresses on devices of different style is NOT an error in design or printing. All electronic devices MUST be placed in a heated room with temperature above 32 degrees. Never run wires parallel to any other wiring. Make sure to always run cables in separate raceways. Fire alarm wiring can emit noise that may affect other devices. Shielded cable can be used if cable is run near sensitive equipment

LEGEND

48 INCHES PS PULL STATION

80 INCHES S SMOKE DETECTOR

80 INCHES R HEAT DETECTOR RATE OF RISE

80 INCHES F HEAT DETECTOR FIXED TEMP

80 INCHES RT REMOTE TEST/INDICATOR

80 INCHES DS DUCT SMOKE DETECTOR

80 INCHES MH MINI HORN

80 INCHES VO VISUAL ONLY

AV AUDIO / VISUAL

NZM 100 ZONE MODULE

NC-100 CONTROL MODULE

NMM 100=4 SQUARE, 100p=mini mod MONITOR MODULE

NC 100p RELAY MODULE

This drawing is a typical device layout, wiring is shown diagrammatically only. This drawing has been provided as an example ONLY. Riser does not necessarily indicate all devices and appliances. See floor plans and specification for location and quantities. The purchaser must accurately layout the initiating and notification devices in their proper zones/circuit. Note: All signal circuits have a 2.5 amp load limitation and a combined load limitation of 3.0 amps or 6.0 amps if XRM-24 is added to the panel. There can be 4 class B nac circuits or 2 class A nac circuits. REMOTE power supply has a 3.0 amp limitation per circuit and an 8.0 amp combined limitation for all 4 circuits. (see chart below for current vs. candela rating)

Room Size	Candela Rating	Load (amps)
20' x 20'	15 cd	0.08 amps
28' x 28'	30 cd	0.10 amps
45' x 45'	75 cd	0.15 amps
54' x 54'	110 cd	0.20 amps

- A 1 PR #12 AWG TWISTED-PAIR UNSHIELDED CABLE FPL GENESIS 4515, BELDEN 6220UL (Up to 10,000 ft)
- A 1 PR #14 AWG TWISTED-PAIR UNSHIELDED CABLE FPL GENESIS 4513, BELDEN 6120UL (Up to 8,000 ft)
- A 1 PR #16 AWG TWISTED-PAIR UNSHIELDED CABLE FPL GENESIS 4511, BELDEN 6220UL (Up to 4,500 ft)
- B 1 PR #12 AWG FPL CABLE
- D 1 PR #14 AWG FPL CABLE
- E 1 PR #16 AWG FPL CABLE
- F 2c #12 AWG CABLE
- G 2c #14 AWG CABLE
- H 1 PR #16 AWG TWISTED-PAIR SHIELDED CABLE FPL
- J 1 CAT5 CABLE



Mark Date Description

Project Status

**ISSUED FOR
 CONSTRUCTION**
 03-01-2013

Drawing Title

**Fire Alarm Riser
 Wiring Diagram**

Scale:

Drawing Number

E40.3