COLLIER FIRE DISTRICTS FIRE & LIFE SAFETY
FIRE ALARM
PLAN CHECKLIST COVER PAGE

The following is intended to assist the design professional and or installing contractor in designing and submitting for review a "code compliant" fire alarm system. This document in no way details all of the requirements that may be necessary for a complete code compliant system.

Note: Systems shall be designed in accordance with the codes and standards adopted in Rule Chapter 69A-60, The Florida Fire Prevention Code 5th edition, NFPA 1 (2012 edition) the Florida specific version, NFPA 101 (2012 edition) the Florida specific version, NFPA 72 (2010 edition), NFPA 70 (2010 edition), NFPA 90A (2012 edition), NFPA 110 (2010 edition), and the Collier Fire Districts Fire and Life Safety Policy and Procedures Manual found at http://www.ccfdin.com/Policies-and-Procedures/

Building Information: Number of stories_____Sq. Ft._____/____(per floor and building total); # of Units: ____
Is the building protected with an automatic fire sprinkler system ☐ Partial ☐ Full Sprinkler System ☐ None
If so denote which type: ☐13 ☐13R ☐13D
Occupancy type per FFPC:_____Chapter_____Occupant Load: _____
To your knowledge, is this a "Required System"? ☐YES ☐ NO Master Permit #: _____

Type of Permit:
☐ New Fire Alarm System ☐ Existing Fire Alarm System ☐ Dedicated Function Fire Alarm System
☐ Fire Alarm Monitoring Only (A separate permit is required for monitoring in addition to fire alarm permit)
Communication method:_____/_____Format FACP(ie: 4/2, Contact ID, etc)_____
(New ie: RF, Cell) (Existing) Format DACT (ie: 4/2, Contact ID, etc)_____
☐ Local Alarm Only ☐ Remote Supervising Station ☐ Proprietary Supervising
☐Central Station Service (not required in Collier Co) ☐ *If performance based, contact Fire Marshal

Required Information on Plan **(Check box to indicate compliance)**

- ☐ Project name and address on plan.
- ☐ Floor plans shall be 1/8" scale. On electronic review, please provide dimension line so the scale can be set.
- ☐ Utilize NFPA 170 Symbols when possible (Mandatory December 31, 2017).
- ☐ Provide a comprehensive scope of work and input/output matrix.
- ☐ Provide sequence of operations which shall include specific conditions being supervised, as well as detailed actions taken for trouble, supervisory, alarm conditions and any other emergency operations/functions.
- ☐ Mark all device and component model numbers and quantities (new/ existing/ relocated) on plan or bill of materials.
- ☐ Riser Diagram shall be provided delineating each floor, circuit and zone and all devices, appliances and/or components.
- ☐ Provide documentation that all components are "compatible" and "listed" for the specific fire alarm applications for which they are used. Provide verification of compatibility between components and the respective panel per manufacturer. Fire alarm system components shall be installed per their "listed" application for the ambient conditions (i.e., voltage, temperature and humidity) expected. NFPA 72 10.14.1, 10.14.2.4
- ☐ Provide specification sheets.
- ☐ Provide battery calculations in chart format. A 20% safety margin is required per NFPA 72-10.5.6.3.1 Existing systems shall provide new and existing calculations. (Excluding monitoring take over).
- ☐ Provide wire legend, wire burial detail and installation method. All wiring located in wet or damp locations shall be listed for this use (Wet & Direct Burial). Include the location of the wiring method or circuit, the type of wiring method or circuit, the minimum cover requirements cut sheets.
- ☐ There shall be a minimum of one listed "weatherproof" audio/ visual appliance, located in accordance with FAL01-1.
- ☐ Provide site plan.

Existing Fire Alarm Modification

- ☐ Identify which Rehabilitation Work category is applicable in accordance with FFPC- Chapter 43:
  - ☐ Renovation complying with section 43.4
  - ☐ Modification complying with section 43.5

- ☐ When an existing fire alarm system is being renovated, modified or augmented somehow, the following detailed information regarding the capacity of the existing fire alarm control panel(s) shall be provided. NFPA 72: 10.18.1.1 and 10.18.1.2
  - ☐ Provide the operating capacities/parameters of the existing panel(s) as outlined by the listing and/or manufacturer specification sheet.
  - ☐ Identify the existing loads (prior to the application of this new scope of work) for the respective circuits currently being utilized on the individual fire alarm control panel(s).
  - ☐ Identify which circuit(s) is being rehabilitated and at what point on the existing circuit the rehabilitation will occur AND/OR whether a new or spare circuit is being utilized.
  - ☐ Indicate what the "new" load will be to each of the rehabilitated existing or new circuits and whether the existing batteries can handle the "new" load(s) and provide the required secondary supply capacity for the respective fire alarm system classification.
  - ☐ If a new, larger battery is to be installed as a result of this rehabilitation, indicate whether the existing FACP is capable of charging this larger size battery.
  - ☐ Identify what the available capacity will be for each of the rehabilitated and/or new circuits following the completion of this scope of work.
- ☐ In an existing addressable fire alarm system the number of new devices shown in the submittal/drawings, and for each SLC being rehabilitated, has the point where each new device is being added to the SLC been shown - specifically identifying where the rehabilitation will occur (i.e. where the new devices will be inserted into the SLC).
- ☐ Indicate on the plans if the existing fire alarm system Power-Limited or Non-Power Limited.
- ☐ Indicate on the plans if the existing fire system designed for General Evacuation, Partial/Selective Evacuation or Relocation of Building Occupants.
- ☐ All new components submitted under this fire alarm system rehabilitation shall be "compatible" and "listed" for the specific fire alarm applications for which they are used and are all detection devices that receive power from the IDC or SLC of a control unit listed for use with that control unit as required by NFPA 72- 10.3.3.
- ☐ Provide verification of compatibility between components and the respective panel.
- ☐ Each new device, new appliance, new circuit and/or new component for this fire alarm system rehabilitation shall be indicated and enumerated on the floor plan.
- ☐ Emergency Control Functions relative to this fire alarm system rehabilitation shall be indicated on floor plans and riser and detailed in the Sequence of Operations (Door release, door unlocking, elevator recall and emergency warning light illumination, smoke control, stair pressurization, other extinguishing systems, HVAC shutdown, etc.).
- ☐ All rooms & spaces shall be clearly labeled on floor plans.
- ☐ Are there ceilings that are higher than 10' or that are not smooth or flat? If so, provide details indicating the ceiling height and depicting the ceiling surface configurations on the appropriate areas of the floor plans. Also provide an elevation detail that delineates the mounting (spacing and location) of new automatic detection device(s) and/or new notification appliance(s) added under this rehabilitation.
- ☐ Relays for control devices installed under this fire alarm rehabilitation are located within 3' of the controlled circuit or appliance and is the installation wiring between the fire alarm control unit and the relay or other appliance monitored for integrity or fail-safe.

<u>Notification</u>

- ☐ Each new audio/visual appliance have its candela rating listed on the floor plan, adjacent to each appliance.

- ☐ Each new visual appliance shall be adequate for the area covered, and located per NFPA 72: 18.5 (see Appendix)

Initiation

- ☐ Smoke detection design documentation shall be provided for the proposed new smoke detectors which states the required performance objective of the system. NFPA 72: 17.7.1.1
- ☐ Heat detection design documentation shall be provided for the proposed new heat detectors which states the required performance objective of the system. NFPA 72: 17.6.1.1
- ☐ Provide voltage calculations for each rehabilitated notification appliance circuit and/or for any circuits that draw significant power (such as relays, etc.).
- ☐ All rehabilitated battery and voltage drop calculations correlate with the alarm and non-alarm current draws for the respective components in the Catalog/Specification sheets provided and are these current draws indicated/highlighted for the plan reviewer.
- ☐ All new fire alarm equipment under this rehabilitation is installed in locations that do not exceed the voltage, temperature or humidity limits. NFPA 72-10.14.1

I hereby attest that, to the best of my knowledge, the aforementioned checklist information and the battery calculation(s) are accurate and adequate for the fire alarm system being submitted.

Applicant Company **Applicant Name (print)** **Date**

Address **City** **State** **Zip Code**

State License Number **Expiration Date** **Applicant Signature**

Telephone Number **E-mail address**