Developed by | Fire Protection Standard 402 | Date: 1-1-04 | | Approved by | Fire Alarm System | Revision; | |

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This standard provides reference of materials to assist the engineer or designer in the preparation of the fire alarm system drawings, whether in the office or in the field. This information is critical to District inspectors and plan checkers who must interpret the notations of alarm system elements from the structural drawings of a building and who may need to verify the size and shape of structural elements and the type, quantity, and location of fire alarm system elements.

Paul Smith, Fire Chief

Standardized symbols for various components of building systems and miscellaneous components commonly used in the design of fire protection systems should be used from sources, including NFPA 170, *Standard for Fire Safety Symbols*, and NECA 100-1999, *Symbols for Electrical Construction Drawings*.

This Standard includes a comprehensive list from NFPA 72©, $National\ Fire\ Alarm\ Code$ ©, that itemize the information that must be provided for the system. This is required and essential to the inspector and plan reviewer when verifying that no information is missing from the working plans.

A fire alarm system "Record of Completion" shall be completed after the system is initially installed and the installation wiring has been checked. The installing contractor shall provide to the Fire District a final copy after completion of the operational acceptance tests. When more than one contractor is responsible for the installation, each contractor is required to complete the portions of the form for which he or she has responsibility.

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System Documentation

		•
Install	ation in	structions shall be submitted for every installed component
Yes	No	
		Battery calculation sheet
		Copies of UL certificates or FM placards
		Copy of the original inspection and Testing Form
		Copy of the fire alarm system specification
		Copy of the Fire Alarm System Record of Completion:
		1. Name and address of the protected property
		2. Owner and phone number of the protected property
		3. Name and phone number of the Authority Having Jurisdiction
		4. Type of the alarm system or service
		5. Applicable codes, standards, and other design criteria to which the
		system is required to comply
		6. Type of building construction and occupancy
		7. Fire department response point(s) and annunciator location(s)
		8. Type(s) of fire alarm-initiating devices, supervisory alarm-initiating devices,
		and evacuation notification appliances to be provided
		9. Calculations, for example, secondary supply and voltage drop calculations
		10. Intended area(s) of coverage
		11. Complete list of detection, evacuation signaling, and annunciator zones
		12. Complete list of fire safety control functions
		13. Complete sequence of operations detailing all inputs and outputs
Three	(3) sets	of fire alarm system drawings shall be submitted to the Fire District with the
requir	ed Perm	nit Application and deposit of fee.
Yes	No	
		1. Property name and location

KENTFIELD FIRE PROTECTION DISTRICT

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		2. Drawing developer's name, company name, address and telephone
		number
		3. Revision number and date
		4. Circuit identification
		5. Terminal identification
		6. Color-coding schemes
		7. Location of devices and appliances
		8. Type of devices, appliances, and equipment
		9. Location of control equipment, annunciator(s), transmitters, and
		receivers
		10. Location of control relays to other systems or suppression systems
		11. Location of wiring and junction boxes
		12. Type of cable or wiring method used for each circuit
		13. Cable routing
Yes	No	
		An owner's manual:
		1. Detailed narrative of the system including:
		a. Inputs
		b. Evacuation/relocation signaling
		c. Ancillary (control) functions
		d. Annunciation
		e. Sequence of operation, including an input/output matrix
		(see Exhibit VIII.5)
		f. Expansion capabilities
		g. Application limitations
		h. Revision of Basic Input Output Software (BIOS) installed
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Yes	No	
		2. Operator instructions
		a. Basic system operation
		b. How to acknowledge an alarm
		c. How to silence alarm signals
		d. How to silence a trouble signal
		e. How to reset system
		f. Operation of manual evacuation signaling
		g. How to perform routine maintenance, such as changing printer
		paper
		3. Detailed description of testing and maintenance as required and
		recommended by the manufacturer under a maintenance contract for every component of the system. a. A list of system components that require periodic maintenance
		b. Step-by-step instructions for testing and maintenance for all
		installed equipment
		c. Schedule of testing and maintenance for all components per
		NFPA 72©, National Fire Alarm Code©, Chapter 7
		d. Detailed troubleshooting instructions for each type of anticipated
		trouble condition
		e. Service directory
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