SMPLE FIRE ALARMCOVER SHEET
NAME OF PROJECT HERE

ADDRESS GOES HERE
SOMEWHERE, CA 95XXX

FIRE ALARM SYSTEM

SCOPE OF WORK

Install a fire alarm system consisting of a new fire alarm control panel w/ internal dialer along w/ an LCD annunciator next to each of the two non-led graphic map on the entry directories, a manual pull station at the FACP, a smoke detector at each panel, monitoring of office duct smoke detector (provided by division 15), unit, unit shutdown, monitoring of sprinkler system, and notification appliances throughout.

Contractor to provide manual pull stations, audible, visual and audible visual devices as shown on plans. Fire Alarm contractor to provide a one year warranty on the fire alarm system. Along with proposal include a seperate breakout for a 3 year after warranty Monitoring, Maintenance and Testing contract per NFPA guidelines.

Fire Alarm Contractor to have a minimum of NICET Level II to supervise and certify fire alarm installation. If installation of fire alarm system is to begin after June 1 2005 all installation shall be performed by a State of California licensed Fire/Life Safety Technician. For information regarding this qualification contact California Department of Industrial Relations, Division of Apprenticeship Standards, San Francisco.

Fire Alarm Plans are prepared as a deferred approval item and are for reference purposes only. The contractor shall prepare and submit fire alarm system plans to the Sacramento Metropolitan Fire District for review and approval, prior to performing any work.

STANDARDS & CODES

1999 – NFPA 72 National Fire Alarm Code
2001 – California Electrical Code
2001 – California Building Code
2001 – California Fire Code

DRAWING SCHEDULE

E4.3 FIRE ALARM COVER PAGE
E4.5 FIRE ALARM SITE PLAN
E4.6 TYPICAL UNIT FIRE ALARM PLAN
E4.7 FIRE ALARM DETAILS
E4.8 FIRE ALARM RISER DIAGRAM

FIRE ALARM SYSTEM SYMBOL LIST

QTY.	SYMBOL	DESCRIPTION	MODEL	MANUFACT.	CSFM #	ELECT. REQ'D	DETAIL SHEET #
		CONTROL EQUIPMENT					
1	FCP	FIRE ALARM CONTROL PANEL W/ SYNCHRONIZATION MODULE	NFW-100 SM-24-R	NOTIFIER WHEELOCK	7165-0028:235 7300-0785:132	BACKBOX PROVIDED (SPECIAL)	SHEET FA-5 DETAIL # 1
1	FSA	REMOTE ANNUNCIATOR	FDU-80	NOTIFIER	7120-0028:209	BACKBOX PROVIDED (SPECIAL)	SHEET FA-5 DETAIL # 3
15	RPS	REMOTE POWER SUPPLY W/ SYNCHRONIZATION & TRIP CONTROL RELAY MODULES (1 EACH)	FCPS-24D4 NC-100 SM-24-R	FIRE-LITE NOTIFIER WHEELOCK	7315-0075:197 7300-0028:230 7300-0785:132	BACKBOX PROVIDED (SPECIAL)	SHEET FA-5 DETAIL # 2,8
		INITIATING DEVICES					
16		PHOTOELECTRIC SMOKE DETECTOR DETECTOR BASE	NP-100 B710LP	NOTIFIER	7272-0028:231 7300-0028:173	4S DEEP BOX W/ 3" OCTO RING	SHEET FA-5 DETAIL # 4,5
1		MANUAL PULL STATION	NOT-BG12LX	NOTIFIER	7150-0028:199	4S DEEP BOX W/ 1 GANG RING	SHEET FA-6 DETAIL # 1,2
		NOTIFICATION DEVICES					
2 *		WALL MOUNT MULTI-CANDELA HORN/STROBE	AS-24MCW-FR	WHEELOCK	7125-0785:131	4S DEEP BOX	SHEET FA-6 DETAIL # 2,3,5
3 *		WALL MOUNT MULTI-CANDELA STROBE	RSS-24MCW-FR	WHEELOCK	7125-0785:141	4S DEEP BOX	SHEET FA-6 DETAIL # 2,3,6
150		MINI-HORN	MIZ-24S-R	WHEELOCK	7135-0785:150	4S DEEP BOX	SHEET FA-6 DETAIL # 2,3,4
		MODULE DEVICES					
15	M1	WATERFLOW SWITCH MONITOR MODULE	NMM-100	NOTIFIER	7300-0028:230	4S DEEP BOX	SHEET FA-5 DETAIL # 6
15	M2	TAMPER VALVE SWITCH MONITOR MODULE	NMM-100	NOTIFIER	7300-0028:230	4S DEEP BOX	SHEET FA-5 DETAIL # 7
2	M7	DUCT SMOKE DETECTOR MONITOR MODULE	NMM-100	NOTIFIER	7300-0028:230	4S DEEP BOX	SHEET FA-5 DETAIL # 7
		REFERENCE DEVICES					
15		WATERFLOW SWITCH	F.B.O.	F.B.O.	F.B.O.	F.B.O.	SHEET FA-5 DETAIL # 6
15		TAMPER VALVE SWITCH	F.B.O.	F.B.O.	F.B.O.	F.B.O.	SHEET FA-5 DETAIL # 7
15	FTC	FIRE ALARM TERMINAL CEBINET	F.B.O.	F.B.O.	F.B.O.	F.B.O.	SHEET N/A DETAIL # N/A
24	J	JUNCTION BOX	F.B.O.	F.B.O.	F.B.O.	F.B.O.	SHEET N/A DETAIL # N/A
600	120	120VAC SMOKE DETECTOR	F.B.O.	F.B.O.	F.B.O.	F.B.O.	SHEET N/A DETAIL # N/A
2		DUCT SMOKE DETECTOR	F.B.O.	F.B.O.	F.B.O.	F.B.O.	SHEET N/A DETAIL # N/A
2	AC	MECHANICAL UNIT TAG	F.B.O.	F.B.O.	F.B.O.	F.B.O.	SHEET N/A DETAIL # N/A
15		MOTOR BELL	F.B.O.	F.B.O.	F.B.O.	F.B.O.	SHEET N/A DETAIL # N/A
6	PB	PULL BOX	F.B.O.	F.B.O.	F.B.O.	F.B.O.	SHEET N/A DETAIL # N/A

* NOTE: NUMBER NEXT TO VISUAL DEVICES DENOTES CANDELA

FIRE ALARM SYSTEM CABLE/WIRE LIST

SYMBOL	DESCRIPTION	TYPE	MODEL	MANUFACT.
1A	SLC DATA LOOP – RED/BLK (STRANDED)	2#18	THHN/THWN	AS REQ'D
1B	NOTIFICATION CIRCUIT – RED/BLK (STRANDED)	2#12	THHN/THWN	AS REQ'D
1C	INITIATING CIRCUIT – RED/BLK (STRANDED)	2#18	THHN/THWN	AS REQ'D
1AQ	SITE SLC DATA LOOP – RED/BLK (TWST/SHLD)	2#18	AQ293	WEST PENN OR EQUAL
1P	ANNUNCIATOR POWER – RED/BLK (STRANDED)	2#14	THHN/THWN	AS REQ'D
1B	ANNUNCIATOR DATA – RED/BLK (STRANDED)	2#18	THHN/THWN	AS REQ'D

INSTALLATION NOTES

1. Conduit knockouts are provided on all manufacturer's provided backboxes. Do not enlarge or change location of conduit entry without prior approval of Industrial Electronic Systems, Inc.
2. Conductor terminations shall be brady or equally labled.
3. All signal device and audible/visual circuits are continuous from device to device. No splices or interim circuit connections shall be made. Any splices required at any device will be the responsibility of the Electrical Contractor prior to scheduling install.
4. Standard control panel, terminal boxes etc. mounting is 6' to top of device U.O.N.
5. Figures adjacent to any initiating device indicate fire loop and device address number.
6. All risers and floor plan wiring layouts are shown diagrammatically. All devices are to be placed as near to location as shown on plan U.O.N.
7. Location of detectors that activate door holders are to be placed no more than 5' from center of doorway as to conform to NFPA 72, 2–10.6.1 (1–3)
8. Detectors are not to be located within 4' of any supply air registers, in accordance with NFPA 72, A–2–3.5.1, and shall not be placed where return air movement shall exceed the manufacturer's recommendation as to effect the operation of the smoke detector.
9. Penetrations of rated assemblies requiring opening protection shall use an approved through penetration fire stop system which has a "T" rating equal to the assembly penetrated. [CEC 300–21]
10. Mount all manual pull stations @48 " O.C. A.F.F. See NFPA 72, 2–8.1
11. Connect fire alarm panel to dedicated circuit (20 Amp Breaker).
12. Review sequence of system operation on sequence matrix.
13. The visual devices on this job are Synchronized.
14. Electrical contractor to pipe from any P.I.V. or backflow preventer to FACP.

* Battery backup calculations are 24 hours standby and 5 minutes alarm.

CONFORMANCE NOTES

The fire alarm system shall conform to California State Electrical code, Article 760.

Upon completion of the installation of the fire alarm system, a satisfactory test of the entire system shall be made in presence of the enforcing agency.

Installation of the fire alarm system shall not be started until detailed plans & specifications, including state fire marshal listing numbers for each component of the system have been approved by the authority having jurisdicton.

LABEL DESCRIPTIONS

SLC

L 1 ? 1

LOOP # — DEVICE TYPE (D = DETECTOR, M = MONITOR) — DEVICE #

NAC

N 1 - 1

CIRCUIT # — DEVICE #

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS MATRIX

	AREA SMOKE DETECTOR	DUCT SMOKE DETECTOR	MANUAL PULL STATIONS	WATERFLOW SWITCH	TAMPER VALVE SWITCHES	SYSTEM EQUIPMENT MALFUNCTION
ANNUNCIATE AT LOCAL FIRE CONTROL PANEL (ALARM CAUSING)	●		●	●		
ANNUNCIATE AT LOCAL FIRE CONTROL PANEL (TROUBLE CAUSING)						●
ANNUNCIATE AT LOCAL FIRE CONTROL PANEL (SUPERVISORY CAUSING)		●			●	
ANNUNCIATE AT REMOTE ANNUNCIATOR PANEL (ALARM CAUSING)	●		●	●		
ANNUNCIATE AT REMOTE ANNUNCIATOR PANEL (TROUBLE CAUSING)						●
ANNUNCIATE AT REMOTE ANNUNCIATOR PANEL (SUPERVISORY CAUSING)		●			●	
ACTIVATE NOTIFICATION APPLIANCE CIRCUIT THROUGHOUT BUILDING	●		●	●		
SHUTDOWN ASSOCIATED MECHANICAL UNIT		●				
TRANSMIT TO CENTRAL STATION (ALARM CAUSING)	●		●	●		
TRANSMIT TO CENTRAL STATION (TROUBLE CAUSING)						●
TRANSMIT TO CENTRAL STATION (SUPERVISORY CAUSING)		●			●	

FIRE101
FIRE ALARM AND LIFE SAFETY
DESIGN, ENGINEERING & CONSULTING
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These drawings are prepared by Fire 101 for the exclusive use of Fire-101 and its client listed below. No use or duplication of these drawings is permitted without prior written permission from Fire-101 or the client.

THESE DRWGS. PREPARED BY FIRE-101 FOR:

CLIENT LOGO

CLIENT NAME
STREET ADDRESS
CITY, STATE & ZIP CODE
TEL. #
FAX #
CONTRACTORS LIC. #

PROJECT NAME HERE
CONTINUATION OF NAME
STREET ADDRESS
CITY, STATE & ZIP CODE

RONALD D. STADTMAN · NICET CERTIFIED #116668 · CERTIFIED ENGINEERING TECHNITION

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