

1 FIRE ALARM PLAN (TYPICAL)
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- FINAL FIRE ALARM TEST WILL BE WITNESSED BY LOCAL FIRE AUTHORITY WITH THE DSA INSPECTOR OF RECORD (IOR).
- UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS. (CEC 110-11 AND 300-5).
- FIRE ALARM DEVICE MOUNTING HEIGHTS:
FULL STATION: 48" TO CENTER LINE OF DEVICE ABOVE FINISHED FLOOR. (CEC 160-9).
HORN INTERIOR: 90" TO TOP OF DEVICE ABOVE FINISHED FLOOR, NOT LESS THAN 6" FROM CEILING. (NFPA12-6-3.1).
WALL MOUNTED STROBE OR HORNSTROBE: 80" TO BOTTOM OF DEVICE AND NOT GREATER THAN 48" ABOVE FINISHED FLOOR, NOT LESS THAN 6" FROM CEILING. (NFPA12-6-4.4).
- AUDIBLE DEVICES SHALL BE AT LEAST 15dBA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 dBA AT 10' OR MORE THAN 110dBA IN TOTAL, THROUGHOUT (NFPA12-6-3.1 AND CFC 1007.3.3.3).
- AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA UNIFORM FIRE ALARM SIGNAL IN TEMPORAL MODE.
- PROVIDE AT LEAST ONE EXTERIOR ON BUILDINGS FOR E OCCUPANCIES (CFC 1007.2.4.1).
- VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH EVERY SECOND. (NFPA 12-6-4.2)
- CBC SEC. 3501.1 AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC MODE SHOULD HAVE A SOUND LEVEL OF NOT LESS THAN 15dBA AT 10 FEET OR MORE THAN 110dBA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE.
- FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.
- FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS. (1996 NFPA 12 SEC. 1-7.2.1 & FIGURE 1-7.2.1)

APPLICABLE CODES:

CBC 1998, CEC 1998, CMC 1998, CFC 1996
STATE FIRE MARSHALL TITLE 14, PUBLIC SAFETY
NFPA 12, 1996 EDITION W/ CA AMENDMENTS
FIRE ALARM CODE (NFPA 12, 1996 ED. ACCEPTABLE)

CABLE LEGEND

- ALL CONDUCTORS SHALL BE TYPE THIN UNDERGROUND RUNS SHALL BE TYPE THIN W/ BICOR INSULATION TYPE (HEAT RESISTANT THERMOPLASTIC) IS SUITABLE FOR DRY AND DAMP LOCATIONS.
THIN INSULATION TYPE (MOISTURE AND HEAT RESISTANT THERMOPLASTIC) IS SUITABLE FOR DRY AND WET LOCATIONS.
- ALL INDOOR AND EXPOSED WIRING SHALL BE INSTALLED IN A CONTINUOUS STEEL CONDUIT RUN. MINIMUM CONDUIT SIZE SHALL BE 3/4"
UNDERGROUND WIRING SHALL BE INSTALLED IN PVC SCHEDULE 40 CONDUITS.

FIRE ALARM INSTALLATION NOTES

- THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 160 OF THE CALIFORNIA ELECTRICAL CODE.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE ENFORCING AGENCY.
- ALL DRAWINGS ARE DIAGRAMMATICAL ONLY AND ARE NOT TO BE USED IN DETERMINING ACTUAL CONDUIT ROUTES.
- ON FACTORY PROVIDED BACK BOXES, NO ENLARGEMENTS TO THE STANDARD KNOCKOUTS SHALL BE MADE, NOR MAY THE INSTALLER ATTACH CONDUIT TO A NON-FACTORY PROVIDED KNOCKOUT WITHOUT THE EXPRESS WRITTEN CONSENT OF THE SIMPLEX TIME RECORDER COMPANY.
- ALL FIRE ALARM INITIATING CIRCUITS SHALL BE INSTALLED UTILIZING SOLID COPPER CONDUCTORS OF A SIZE AS PER SPECIFICATIONS OR THE LOCAL ENFORCING AGENCY. WHICHEVER IS MORE STRINGENT SHALL APPLY.
- ALL FIRE ALARM CIRCUITS ARE CONTINUOUS FROM DEVICE TO DEVICE. SPLICES ARE NOT ALLOWED UNLESS IN COVERED JUNCTION BOXES ON APPROVED TERMINAL BLOCKS. WHEN SPLICING TSP, IT IS NECESSARY CRIMPED IN METAL SLEEVES, ENCAPSULATED WITH AN EPOXY RESIN OR JOINED BY WIRE NUTS. WHEN SOLDER OR CRIMPED METAL SLEEVES ARE USED, THE JUNCTION MUST BE INSULATED WITH A HIGH GRADE ELECTRICAL TAPE AS SOUND AS THE ORIGINAL INSULATING JACKET. CONTINUITY OF THE SHIELD MUST BE MAINTAINED.
- THE NUMERICAL DESIGNATIONS ADJACENT SYMBOLS ON DRAWINGS, EXAMPLE F-3-12, INDICATE THE FOLLOWING: REPRESENTS THE 12TH DEVICE ON THE 3RD INITIATING CIRCUIT. AUDIBLE CIRCUITS UTILIZE A LETTER AS THE FIRST PART OF THE DESIGNATION AS AN INSTALLATION AID, EXAMPLE: SI-7, 7TH DEVICE ON CIRCUIT SI.
- IF SHIELDED WIRE IS USED, THE FOLLOWING MUST BE OBSERVED:
A. METALLIC CONTINUITY OF THE SHIELD MUST BE MAINTAINED THROUGHOUT THE ENTIRE LENGTH OF THE CABLE.
B. THE ENTIRE LENGTH OF THE CABLE MUST HAVE A RESISTANCE GREATER THAN 1 MEGOHM TO EARTH GROUND.
- WIRE COLOR CODING:**
CIRCUITS: ALARM INITIATING CIRCUITS (BLACK AND RED)
STROBES (BLUE AND VIOLET)
DC POWER (ORANGE AND YELLOW)
GROUND WIRE (GREEN)
NEUTRAL WIRE (WHITE)

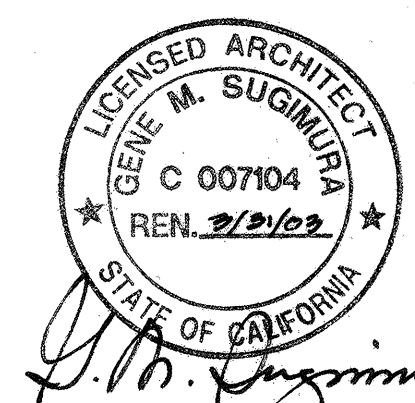
NOTES:

- POST A SIGN NEAR THE EXIT OF EACH CLASS ROOM THAT READS "911 EMERGENCY SERVICES MUST BE CONTACTED IMMEDIATELY AFTER EVACUATION. DIAL 9-911, AND ASK THEM TO RESPOND TO SKYLINE COLLEGE BUILDING 3-E IF FIRE ALARM SOUNDS"

FIRE ALARM EQUIPMENT LIST				
SYMBOL	MANUFACTURER MODEL NUMBER	DESCRIPTION	CBFM LISTING NO.	BACKBOX NEEDED
[FACP]	SIMPLEX 4004-4102	FIRE ALARM CONTROL PANEL 0 ZONES	7165-0026:215	
[F]	SIMPLEX 2099-4105	MANUAL FULL STATION WITH AAMES SECURITY NC-B6C COVER	7150-0026:175	SINGLE GANG
[SD]	SIMPLEX 2048-4201 SIMPLEX 2048-4556	PHOTOMETRIC SMOKE DETECTOR DETECTOR BASE	7272-0026:152 7300-0026:144	4" OCTAGONAL
[H]	WHEELLOCK MT-12/24	WEATHERPROOF HORN W/ BACK BOX	7155-0785:118	PROVIDED
[SL]	SIMPLEX 4404-4130 SIMPLEX 4404-4141	FIRE ALARM STROBE, 15Cd FIRE ALARM STROBE, 30Cd	7125-0026:190	4" OCTAGONAL
[H]	SIMPLEX 4403-4257	FIRE ALARM HORN & STROBE	7125-0026:202	4" SQUARE

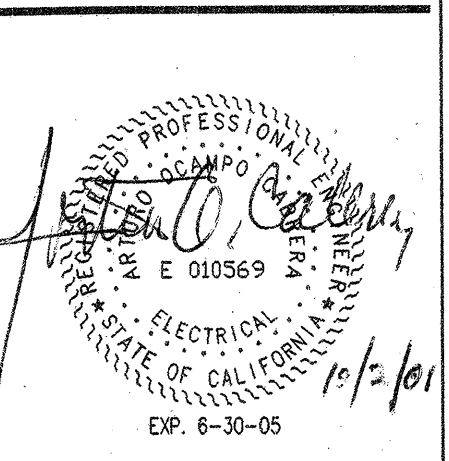
LEGEND	
[F]	FIRE ALARM MANUAL STATION, +48", 2#12
[H]	FIRE ALARM HORN & STROBE, +80", 2#12
[SL]	FIRE ALARM VISUAL ALARM, +80", 2#12
[SD]	FIRE ALARM SMOKE DETECTOR, +80", 2#12
[H]	EXTERIOR HORN, +98", 2#12
[1]	SHEET NOTE IDENTIFICATION
(E), (N)	EXISTING, NEW

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 104070
AC [initials] FLS [initials] SS [initials] CW [initials] P [initials]
DATE [date]



ENGINEERING CONSULTANT • MECH./ELECT.
GENERAL CONTRACTOR Lic. #889798
INDUSTRIAL • COMMERCIAL • RESIDENTIAL
4070 Nelson Avenue, Suite C
Concord, California 94520
TEL. #925/609-1660 FAX #925/609-1661

Sugimura & Associates Architects
Architecture • Planning • Interiors
Landscape / Irrigation
2155 South Bascom Ave., Suite 200
Campbell, CA 95008
408-879-0600 Fx 408-377-6066
COPYRIGHT © 2001 Sugimura & Associates/Architects



FIRE ALARM PLAN AND GENERAL NOTES
FACILITIES MAINTENANCE CENTER
SKYLINE COLLEGE
3300 COLLEGE DRIVE
SAN BRUNO, CA 94006

REVISIONS		
NO.	ITEM	DATE

CLIENT APPROVAL:
DRAWN BY: LGC
CHECKED BY: AOC
JOB NO: 2137 DATE: 10/3/01

FA1

OF SHEETS