Bill Betzner

MS-9200

Addressable Fire Alarm Control Panel

PRELIMINARY CATALOG SHEET

GENERAL

The MS-9200 is a compact, cost effective, addressable fire alarm control panel with a capacity of 198 Fire•Lite Series 300 devices. A single SLC loop supports up to 99 smoke or heat detectors and 99 control or monitor modules. The panel uses the latest in surface-mount technology, and is designed for ease of installation and programming. It features the latest in fire protection technology, including: maintenance alert and automatic detector test.

The MS-9200
15.0" H x 14.5" W x 3.0" D

FEATURES

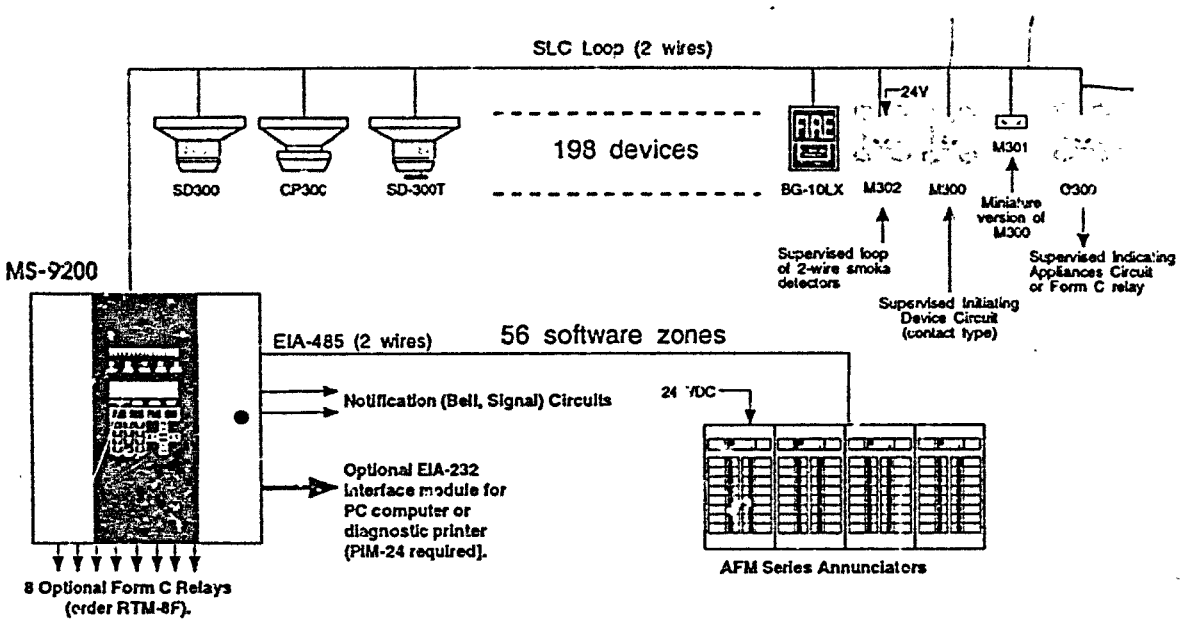
- 198 addressable device capacity (99 detectors and 99 monitor or control modules). Style 4, 6, or 7.
- 2 programmable Notification Appliance (bell, signal) Circuits, Style Y or Z (Class B or A).
- Alarm, trouble and supervisory relays, standard.
- Maintenance alert warns when smoke detector dust accumulation is excessive.
- Optional plug-in Digital Alarm Communicator.
- Remote serial annunciators operate over high speed EIA-485 port.
- Optional printer interface.
- 3.0 A Notification Appliance (bell,signal) power, expandable to 6.0 A.
- 40 character LCD display with back-lighting.
- Custom English labels per point may be manually entered or selected from an internal library file.
- Real time clock/calendar.
- History file with 500 event capacity.
- Waterflow or supervisory selection per monitor point.
- System alarm verification, smoke only.
- Walk Test reports 2 devices set to same address.
- Presignal delay option per NFPA 72.
- Silence Inhibit and Auto Silence timer options.
- March Time/Temporal/California code for non-silencable bell circuit.
- Field-programmable on panel, with user-defined passwords, plus an Autoprogram feature.
- Battery charger for up to 60 hours of standby power.
- Remote Acknowledge/Silence/Reset/Drill via M300 modules.
- Optional monitor module supports two-wire smoke detectors.
- Rapid poll algorithm for manual stations. Responds in less than 2 seconds.
- Operates with untwisted, unshielded wire (up to 1,000 feet) for retrofit applications (U. S. Patent 5,210,523).
- New 300 Series addressable devices feature decimal address selection. Address of each device can be easily set in the field by use of a screwdriver. Smoke detectors also feature a plug-in wiring connector.

FIRE-LITE® ALARMS incorporated
12 Clintonville Road
Northford, CT 06472
Phone: (203) 484-7161
FAX: (203) 484-7118

ISO-9001
Engineering and Manufacturing Quality System Certified to International Standard ISO-9001

Made in the U.S.A.

SYSTEM PERIPHERALS



ADDRESSABLE DEVICES

SD300 Addressable photoelectric smoke detector. Includes mounting plate and plug-in wiring terminal block.

SD300T Same as SD300, plus a 135° F. thermostat heat detector.

CP300 Addressable Ionization smoke detector.

BG-10LX Addressable manual station based on the popular Fire•Lite BG-10 dual-action station. Made of LEXAN®.

M300 Addressable monitor module for one zone of dry contact initiating devices. Mounts in standard 4-inch box. Includes plastic cover plate and end-of-line resistor. Features polling/alarm LED and decimal address switches. May be configured for either Style B (Class B) or Style D (Class A).

M301 Miniature version of M300. Excludes LED and Style D option. Connects with wire pigtails.

M302 Similar to M300, but may monitor up to 20 conventional 2-wire detectors. Requires external 24 V power. (Consult factory for compatible smoke detectors & availability).

C300 Addressable control module for one Style Y zone of supervised polarized Notification Appliances, or may be configured as a dry contact (Form C) relay. Mounts in standard 4-inch box. Features polling LED and decimal address switches. Notification Appliance Circuit option requires external 24 VDC power. (Consult factory for compatible Notification Appliances).

I300 This module isolates the SLC loop from short circuit conditions.

AFM ANNUNCIATORS

AFM-16ATX/AEM-16ATF

Serial remote annunciator modules may be located up to 6,000 feet from the panel. The AFM-16ATX displays alarm and trouble for 16 points or zones. Expandable to 64 points using up to three AEM-16ATF's. May also perform remote silence and reset. The first four switches from one annunciator may be used to remotely acknowledge, silence, reset, or to perform a drill.

AFM-32AX/AEM-32AF

Alarm-only indication by zone, with 32 alarm LEDs per module. AFM-32AX may support one AEM-32AF for a maximum of 64 zones.

AFM-16AF

Alarm indication only. 16 alarm LEDs, common trouble LED. Mounts to standard 4 gang box.

ABS-1F & ABS-2F

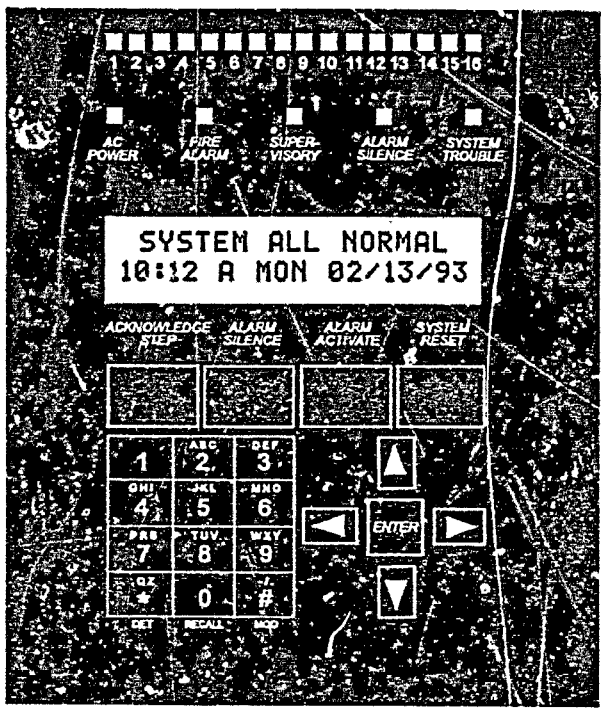
Surface mount annunciator boxes accept one or two annunciator modules.

ABF-1F, ABF-2F, & ABF-4F

Flush mount boxes accept 1, 2, or 4 modules.

AKS-1F

Annunciator key switch kit for use with AFM-16AT when used with ABF boxes.



Keypad and 40 Character LCD Display (with back lighting feature)

MAINTENANCE ALERT

The MS-9200 continually monitors each smoke detector and responds to a reading of 80% of the detectors alarm threshold. If the detector continually reports an 80% threshold reading (8/10 of what is required to be an alarm) for 24 hours a trouble condition is created. This reduces the risk of false alarms due to dust and dirt by creating a trouble condition and not an alarm.

AUTOMATIC TEST OPERATION

The MS-9200 performs an automatic test of each detector every 2 hours. Failure to meet the test limits causes an **AUTO TEST FAIL** trouble type. System Reset clears this trouble.

FIELD PROGRAMMING FEATURES

Off-Line Programming	Create entire program in your office using a DOS based PC computer (order programming kit PK-9200 separately). Upload/Download system programming to the MS-9200 in less than one minute.
Auto-Programming	Command the MS-9200 to program itself (takes less than 30 seconds). In the Auto-Program mode, the MS-9200 scans for all possible devices at all addresses, stores the device types, and addresses found, and then loads default values for all options (General Alarm). It also checks for two or more devices set to the same address.
On-Line Edit	While still providing fire protection, the MS-9200 may be programmed from the front panel. Simple menu trees displayed on the LCD allow the trained user to perform all functions without referring back to the programming manual.
English Label Library	Quickly select labels from a standard library "FLR 3 HALLWAY", or enter them in letter-by-letter. Use recall function to repeat previously used label.
Program Check	Automatically catch common errors, such as relays not linked to any zone or point.

SPECIFICATIONS

- Primary input power: 120 VAC, 50/60 Hz, 2.3 Amps.
- Total output 24 V power: 3.6 A (expandable to 6.6).
- Standard Notification Circuits: 2 (Style Y or Z).
  - Expansion Notification Circuits: up to 99 (using C300 module)
- Notification Appliance Power: 3.0 A (expandable to 6.0 A with XRM-24).
- Four-wire detector power: 300 mA.
- Non-resettable regulated power: 300 mA.
- Non-regulated power: 2.5 Amps Maximum
- Battery charger range: 7 AH – 17 AH (BB-17F battery cabinet for 12 — 17 AH batteries).
- Remote charger (panel charger disabled): 25—55 AH (use R45-24).
- Charge float rate: 27.6 V.
- Charger current limited to 0.8 A.
- Control panel Alarm, Trouble, Supervisory Relay contact rating: 2.0 A @ 30 VDC.

SYSTEM CAPACITY:

- Total programmable input/output points 198
- Addressable Detectors 99
- Addressable monitor or control modules 99
- Programmable NAC (bell) circuits in panel 2*
- Programmable software zones 56
- AFM annunciators per system 4

NOTE: * NAC circuits are expandable using C300 control module.

CONTROLS AND INDICATORS

LED INDICATORS

1. AC POWER (green).
2. FIRE ALARM (red).
3. SUPERVISORY (yellow).
4. ALARM SILENCE (yellow).
5. SYSTEM TROUBLE (yellow).

MEMBRANE SWITCH CONTROLS

1. ACKNOWLEDGE/STEP
2. ALARM SILENCE
3. DRILL
4. SYSTEM RESET (lamp test)

5 — 16. 12 key pad with full alphabet

17 — 20. 4 cursor keys

21. ENTER

LCD DISPLAY

40 characters (2 X 20) with long-life LCD display, back-lit.

COMPATIBLE ADDRESSABLE DEVICES

MODEL	*DESCRIPTION*
CP300	Ionization Smoke Detector.
SD300	Photoelectric Smoke Detector.
SD300T	Photoelectric with 135° F. thermal element.
M300	Monitor Module.
M301	Miniature Monitor Module.
M302	2-Wire Detector Monitor Module.
C300	Control Module.
BG-10LX	Manual Fire Alarm Station, Addressable.
I300	Isolator Module

EIA-232 PORT

MODEL	*DESCRIPTION*
PIM-24	Printer/PC Interface Module.

COMPATIBLE DEVICES, EIA-485 PORT

MODEL	*DESCRIPTION*
AFM-16ATX	Annunciator Fixed Module, 16 Alarm LEDs, 16 Trouble LEDs, and 16 Switches,. Accepts up to 3 AEM-16ATF expanders.
AEM-16ATF	Annunciator Expander Module, 16 Alarm LEDs, 16 Trouble LEDs.
AFM-32AX	Annunciator Fixed Module, 32 Alarm LEDs, Common Trouble LED.
AEM-32AF	Annunciator Expander Module, 32 Alarm LEDs.
AFM-16AF	Annunciator Fixed Module, 16 Alarm LEDs, Common Trouble LEDs. Mounts to four gang box.

PRODUCT LINE INFORMATION

MODEL	*DESCRIPTION*
MS-9200	Addressable Fire Panel. Includes display, single printed circuit board, and cabinet.
ZDM-16F	16 Zone LED Annunciator Option Module.
RTM-8F	Plug-in Relay Transmitter Option Module. Provides 8 Form-C relays, plus municipal box & remote station connections.
DP-9200	Full length internal dead front panel (required for Canadian applications).
UDACT-485	Digital Alarm Communicator/Transmitter (Availability to be announced).
XRM-24	120 VAC, 100 VA Transformer. Expands systems power supply. Expands Notification Appliance power from 2.0 amps to 5.0 amps.
PIM-24	Printer and PC Interface Module required for PC programming or to connect a printer.
PK-9200	Programming Kit for DOS based PC computer.
PS-1270	Battery, 12 volt, 7.0 AH, (two required).
PS-12120	Battery, 12 volt, 12.0 AH, (two required).
PS-12170	Battery, 12 volt, 17.0 AH, (two required).
BB-17F	Battery box, required to mount PS-12120 or PS-12170.
R45-24	Remote charger and battery cabinet. Allows charging 25 to 55 AH batteries.
PS-12250	Battery, 12 volt, 25 AH, (two required).
PS-12550	Battery, 12 volt, 55 AH, (two required).

Note: The following modules are in various stages of design and UL-Listing. Please contact Fire-Lite for availability information.

- SD300T
- M302
- I300
- UDACT-485

We try to keep our product information up-to-date and accurate. We cannot cover specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact Fire-Lite®

DF-51276

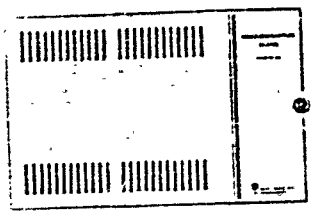
VOICE EVACUATION ALARM

SERIES AU-360

MODULAR TONE AND PAGING AMPLIFIER SYSTEM

AUDIOSONE INC.
HIGH TECHNOLOGY SIGNALING DEVICES
335 Bepton Street
STRATFORD, CT 06497
(203) 377-4475
FAX: (203) 377-3374

UL LISTED



PATENTS ISSUED AND PENDING

OPERATION

SUPERVISED VOICE EVACUATION ALARM INTERFACE, PROVIDES ALARM SIGNAL AND VOICE OVERRIDE WHEN CONNECTED TO A CONVENTIONAL 24VDC FIRE ALARM PANEL.
SPEAKER LINE, SIGNAL GENERATOR, AND AMPLIFIER ARE CONTINUOUSLY SUPERVISED WITH TROUBLE CONDITIONS AUTOMATICALLY INDICATED BY THE FIRE ALARM PANEL.

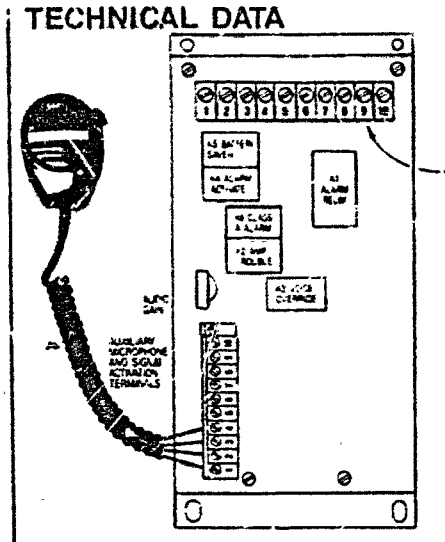
FEATURES

- PENETRATING SLOW-WHOOP ALARM SIGNAL—MORE EFFECTIVE THAN BELLS OR HORNS.
- CRYSTAL-CLEAR, HIGH-INTELLIGIBILITY VOICE OVERRIDE. MICROPHONE CAN BE USED WITH OR WITHOUT ALARM CONDITION.
- USE WITH CONVENTIONAL 24V FIRE ALARM CONTROL PANELS. SIMPLE 6-WIRE HOOKUP.
- FULLY SUPERVISED AND UL LISTED.
- BATTERY BACKUP FROM FIRE ALARM PANEL.
- BATTERY SAVER CIRCUIT REDUCES CURRENT TO 0.006 AMPS STANDBY ON BATTERIES.
- USES LOW-COST AU-350 SERIES SPEAKERS—NO EXPENSIVE SPEAKER/AMPS NECESSARY.
- LOW-VOLTAGE SPEAKER LINE, RUN UP TO 3000 FT. WITH #18 TWISTED PAIR.
- UP TO 40 SPEAKERS PER 20 WATT MODULE.
- ATTRACTIVE BEIGE CABINET, SURFACE OR SEMI-FLUSH MOUNTING, 16 GAUGE STEEL.
- OPTIONAL REMOTE MICROPHONE STATIONS—AUTOMATICALLY DISABLED ON ALARM.
- RUGGED AND RELIABLE—CURRENT LIMITING PROTECTS AMPLIFIER EVEN WHEN SHORTED.
- UPDATES FIRE ALARM SYSTEMS TO COMPLY WITH LATEST LIFE SAFETY CODES.
- COMPLEX MULTI-ZONE, MULTI-SIGNAL SYSTEMS CAN BE EASILY CONFIGURED.
- FOR NEW INSTALLATIONS, OR RETROFIT TO EXISTING FIRE ALARM SYSTEMS, USING SAME WIRING AND BACKBOXES.

SPECIFICATIONS:

- Power Output: 20 Watts RMS
- Audible Signaling Voltage: 25 VRMS (70 VRMS optional).
- Microphone: Low impedance dynamic with push-to-talk switch.
- Supervision: Amplifier, tone generator, power supply, output transformer, and speaker lines continuously supervised.
- Power Input: 24-40 VDC, Unfiltered, full wave rectified from fire alarm panel.
- Current Drain: 1.2 Amp alarm condition, 0.006 Amp stand-by on battery.
- Alarm Activation: Alarm will sound when bell circuit activates. Auxiliary terminals supplied for manual or zone activation.
- Frequency Response: 400—4000 Hz.
- Alarm Tone: Slow Whoop (Optional Horn, Hi-Lo, March Time, Wail, Yelp, Beep).
- Protection: Overload, Polarity Reverse, Open/Short Circuit. Automatic current limiting.
- Dimensions: Cabinet—20" x 14" x 4" Amplifier Module—5" x 9" x 3"

TECHNICAL DATA



FIRE ALARM PANEL CONNECTIONS:

1. 120 VAC 60 hz @ 0.03 amp for Battery saver. Connect to same Branch circuit as Fire Alarm Control Panel.
2. Supervised.
3. 24 VDC Power @ 1.2 Amp Max. (0.006 A stand-by on Battery)
4. Supervised.
5. Bell Circuit 0.025 Amp. (Alarm Polarity Shown)
6. Supervised.
7. Speaker Output 20 Watt RMS (see Dia. at right)
8. Supervised.
9. Class 'A' Speaker Output
10. Supervised

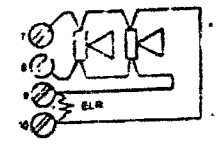
AUXILIARY MICROPHONE CONNECTIONS:

1. Black
2. White
3. Red
4. Green

Microphone Inputs

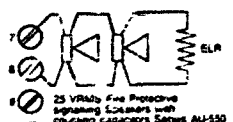
5. Signal Activate
6. Non-interrupted +24V
7. Audio-in Remote
8. Negative
9. Push-to-Talk
10. Interrupted +24V
11. Mic. Preamp Output

SUPERVISED CLASS A OPERATION



End of Line Resistor: Use ELR supplied by Control Unit Manufacturer for Bell Circuit

SUPERVISED CLASS B OPERATION



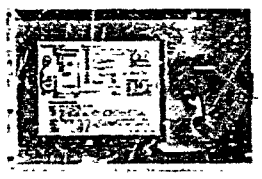
25 VRMS Fire Protective signaling Speakers with coupling capacitors Series AU-550

Max. total load 20 Watts

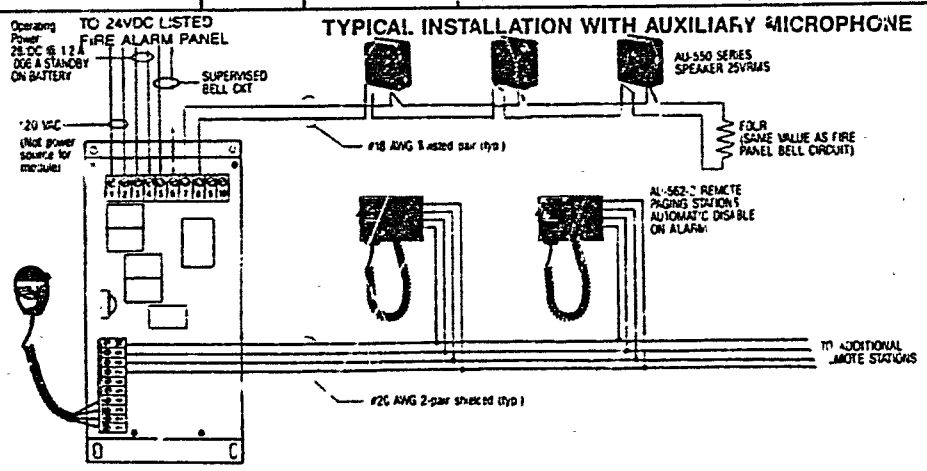
High efficiency amplifier with special circuitry permits high intelligibility voice messages with only ½ Watt power input to speaker. Equal performance would normally require several times the amplifier power with conventional designs.

ORDERING INFORMATION:

WHEN ORDERING PLEASE SPECIFY FIRE ALARM PANEL TYPE AND END OF LINE RESISTOR VALUE.

ILLUSTRATION	CAT. NO.	TOTAL SPEAKER WATTAGE	DESCRIPTION
 20" x 14" x 4" Optional: for 70 VRMS applications, use Cat. No. AU-367-___	AU-360-M1	20 Watts	One 20 Watt Interface Module and Microphone with Enclosure. Includes microphone, signal generator, amplifier and interface module in a keylock enclosure, and operates from regulated or unregulated, unfiltered 24 to 40 Volts DC. One AU-360-M1 module will drive 40 ½Watt speakers (Up to 88 dB at 10 Feet)
	AU-360-M1 -DMR	20 Watts	One 20 Watt Interface Tone and Paging module with Digital Message Repeater, Mike and Enclosure.
	AU-360-M2	40 Watts	Two 20 Watt Interface Modules and Microphone with Enclosure.
	AU-360-1	20 Watts	One 20 Watt Interface Module with Enclosure.
	AU-360-2	40 Watts	Two 20 Watt Interface Modules with Enclosure.
	AU-360-3	60 Watts	Three 20 Watt Interface Modules with Enclosure.
	AU-360-E	20 Watts	One 20 Watt Module Extender Only.

TYPICAL INSTALLATION WITH AUXILIARY MICROPHONE



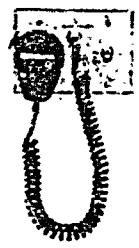
AU-360 SERIES ARCHITECTS/ENGINEERS SPECIFICATIONS

The required system shall provide an Evacuation Alarm Signal and Voice Transmission over the system speakers. All Equipment shall be UL Listed. The System shall be Audiosone Series AU-360 Voice Evacuation Alarm Integrated with a 24 VDC Fire Alarm Panel. Speaker Lines shall be 25 V RMS, and supervised for open or short circuit. Speakers shall be Audiosone Series AU-550 UL Listed Fire Protective Signaling Speakers.

1. Amplifier, Signal Generator, Power Supply, Output Transformer, and Speaker Lines shall be continuously supervised for normal operation, open or short circuit.
2. Amplifier shall be capable of withstanding a continuous output short circuit with alarm tone sounding without failure, fusing, or shutdown.
3. System shall be operable Non-Emergency Public Address announcements without an alarm condition.
4. The system shall have provision for connection of AU-562-2 UL Listed Remote Microphone Stations, which shall be automatically disconnected from system upon alarm activation.
5. A Battery Saver Circuit shall reduce standby current on the Amplifier Module to 0.006 Ampere or less during 120 VAC power failure.
6. Speaker Line Output shall include provision for Class A or Class B supervised speaker wiring.
7. Amplifier shall be specifically designed for High-Intelligibility Speech Reproduction and Fire Evacuation Signaling.
8. DC Current Consumption shall be a maximum of 1.2 Amperes with a 20 Watt RMS Load with Alarm Sounding.
9. Protection Circuitry shall be included to prevent failure due to overloading, overheating, speaker line short circuit, over-voltage, and polarity reversal. Automatic current limiting shall keep circuitry within safe operating limits, without shutdown.

AU-562-2 AUDIO CONTROL

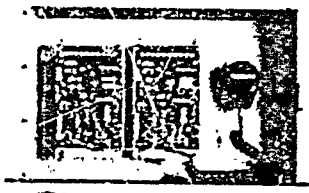
UL LISTED



- Operates as a Remote Paging Microphone with AU-360 Series Voice Evacuation Alarm. Can be used for day-to-day paging, and automatically disabled during alarm condition.
- Attractive stainless-steel microphone station with gain control, key access switch, plug-in microphone and hanger bracket. Dual on-board amplifiers provide high output signal to eliminate hum and noise even when miles of wire are used.
- Unique design permits the use of an almost unlimited number of microphones, connected in parallel with 4-conductor shielded cable. (#20AWG)

AU-360-M1-DMR VOICE EVACUATION ALARM WITH PRE-RECORDED MESSAGE

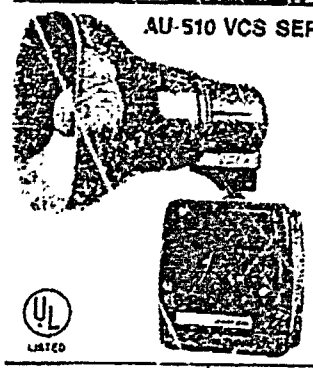
UL LISTED



The AU-360-M1-DMR forms a complete voice evacuation system that provides voice paging, a "slow whoop" alarm signal and pre-recorded message playback.

Upon activation, the DMR will pause 10 seconds to allow the "slow whoop" signal to be heard, then play back the pre-recorded message voice and return to the "slow whoop" signal. Timing and repetitions may be field programmed.

AU-510 VCS SERIES HIGH-POWER SPEAKER/AMPLIFIER



UL LISTED

The AU-510-VCS Series was specifically designed for high-intelligibility voice and signal reproduction in supervised industrial evacuation systems. The audio input is taken directly from the AU-360 supervised speaker line, but without line-loading.

Rugged cast aluminum housing and aluminum re-entrant speaker, weather-proof for indoor or outdoor use.

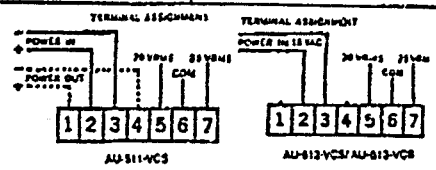
State-of-the-art amplifier circuitry is high-efficiency and protected against overvoltage, overheating, overload, and polarity reversal. Requires no maintenance.

110 dB output, crystal-clear reproduction of voice and alarm Signals.

Volume control permits adjustment of output to suit local requirements.

Model	Voltage	Current	Audio Input Voltage	Audio Line Loading
AU-511-VCS	24 VDC	1.0A	25 VRMS (70.7V Optional)	1/100 Watt
AU-512-VCS	120 VAC/24 VDC	0.4A/1.0A		1/100 Watt
AU-513-VCS	240 VAC/24 VDC	0.2A/1.0A		1/100 Watt

- Frequency Response: 400-4000 hz, Tailored to optimize voice intelligibility and signal clarity
- Power Output: 15 Watts RMS
- Input Impedance: 100 K Ohms. Load on speaker line less than 1/100 W
- Sound Level: 110 dBA @ 10 Feet



GENTEX

SPK SPEAKER

1/4-2W SERIES

4" Square / 8" Round Speaker Series

Applications

The Gentex SPK (1/4–2W) Series of speakers and strobe speakers are designed to meet code requirements for audio, visual and voice communications.

The SPK series are quality speaker products that offer you both dependable evacuation signaling and visual alarms or a combination of both.

The SPK series provide you a 25 or 70.7 VRMs speaker with field selectable power taps of 1/4W, 1/2W, 1W, or 2W.

The SPK devices are UL 1480 listed for use with fire protective signaling system and are warranted for 2 years from the date of purchase.

SPK4R

SPK824HCB

SPK8B

SPK424HWR

Standard Features

- Strobe rating one flash per second
- High dB output
- Frequency Range 400-4000Hz
- Screw Terminals, separate in/out wiring to include 12Awg
- Flush wall or ceiling mounting to a standard 4" square x 2-1/8" backbox with a 1-1/2" extension ring.
- Both round and square speakers mount to all electrical boxes with extender ring.
- Optional 24VDC strobe models featuring 100cd strobe (H) or 17cd strobe (L). "Fire" printed in wall or ceiling mount versions, also available plain
- Field selectable power taps: 1/4W, 1/2W, 1W, 2W
- Speaker voltage 25 or 70.7 VRMs standard, field selectable
- Sealed speaker back for optimum output and cone protection
- Attractive fire alarm red or beige textured painted finish. Only beige finish on 8" round faceplate.
- UL listed for fire protective services per UL 1480, strobes listed UL 1638.

Approvals

- Americans with Disabilities Act (ADA)
- BS & A/MEA*
- BFP*
- CSFM*
- NFPA 72
- UL 1480/1638

*Submitted and pending

Available Models

Model Number	Speaker @ 10 ft. Input Watts	Typical dB	Peak dB	Strobe Rating Input Voltage*	Light Intensity in Candela	Strobe Mount W,P,C	Color
SPK4R	1/4	81	87	18-30VDC	—	—	Red
SPK4-24LWR				18-30VDC	17	W	Red
SPK4-24HWR				18-30VDC	100	W	Red
SPK4-24LCR				18-30VDC	17	C	Red
SPK4-24HCR				18-30VDC	100	C	Red
SPK4-24LPR				18-30VDC	—	P	Red
SPK4-24HPR				18-30VDC	100	P	Red
SPK8	1/2	84	90	18-30VDC	—	—	Beige
SPK8				18-30VDC	—	—	Beige
SPK4-24LWB				18-30VDC	17	W	Beige
SPK4-24HWB				18-30VDC	100	W	Beige
SPK4-24LCB	1	87	93	18-30VDC	17	C	Beige
SPK4-24HCB				18-30VDC	100	C	Beige
SPK8-24LCB				18-30VDC	17	C	Beige
SPK8-24HCB				18-30VDC	100	C	Beige
SPK4-24LPB	2	90	96	18-30VDC	17	P	Beige
SPK8-24LPB				18-30VDC	17	P	Beige
SPK4-24HPB				18-30VDC	100	P	Beige

How to Order: Example

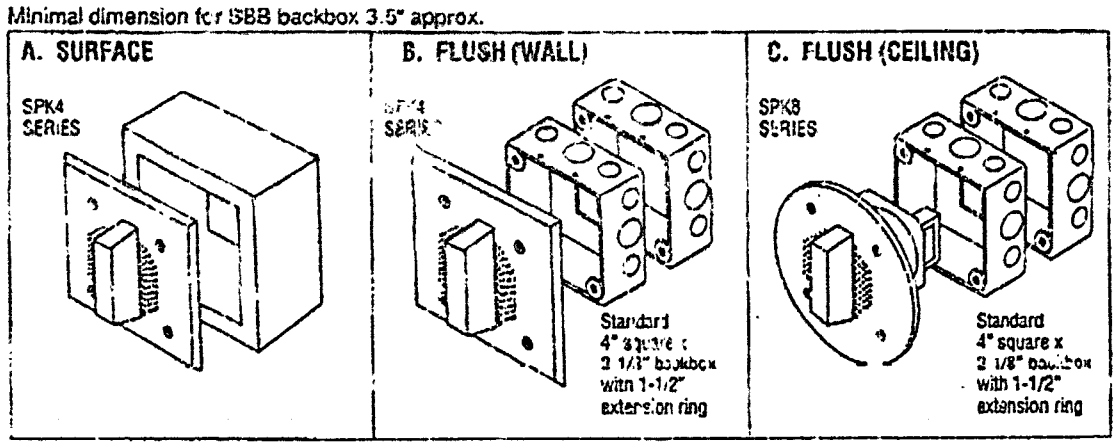
SPK 4 inch square	24H 24VDC 100cd Strobe	W Wall Mount	R Red Faceplate
SPK8 8 inch round	24L 24VDC 17cd Strobe	C Ceiling Mount	B Beige Faceplate

GENTEX SPK SPEAKER

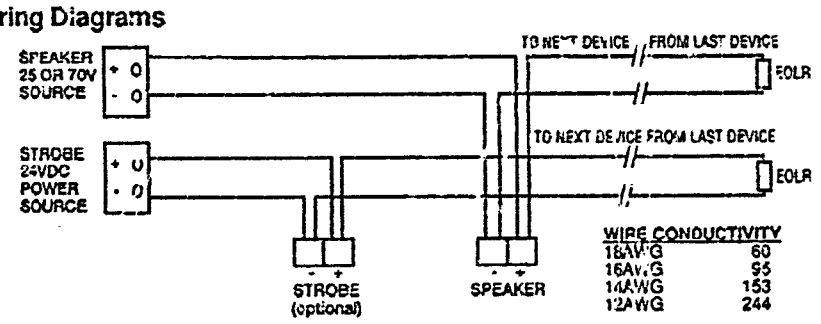
1/4-2W SERIES

Mounting Diagrams

Minimal dimension for SBB backbox 3.5" approx.



Wiring Diagrams



WIRE CONDUCTIVITY	
18AWG	60
16AWG	95
14AWG	153
12AWG	244

NOTE: DO NOT USE LOOPED WIRE UNDER TERMINALS. BREAK WIRE RUN TO PROVIDE SUPERVISION OF CONNECTION.

NOTE: POWER IS SUPPLIED TO DEVICES WHEN CONTROL PANEL IS LATCHED

*MAX. WIRE DISTANCE (IN FEET)= $\frac{\text{PANEL VOLTAGE - DEVICE MINIMUM VOLTAGE}}{\text{TOTAL CURRENT DRAW}} \times \text{WIRE CONDUCTIVITY}$

*Includes wire to and from device. Assumes use of Loop# 6. If aluminum wire is used, multiply wire conductivity by 0.61. CAUTION: APPLIES ONLY TO REGULATED SUPPLIES.

NOTE: Peak operating current of "H" strobe = 200 milliamps.

Architect & Engineer Specifications

The fire alarm speaker shall be Gentex SPK _____ or equivalant. The speaker shall be capable of producing alarm tones or voice on all 25 or 70VRMs audio systems. The speaker shall provide incremental tap settings of 1/4, 1/2, 1 or 2 watts. Minimum dB ratings at 1/4 watt shall be _____ and at 2 watts ____ ____ dB. Tap settings shall be adjustable with field selectable jumper pins. The speaker shall also have an optional visual signal capability. The strobe shall be a minimum of 100cd for compliance with the Americans with Disabilities Act and/or a minimum of 17cd for low intensity output requirements. All field wiring connections shall be made via terminal connections. All speakers shall be UL, CSFM, BS&A, and BFP listed and comply with all local and state codes to include the Americans with Disabilities Act.

GENTEX CORPORATION

Fire Protection Products: 10985 Chicago Dr.
Box 310, Zeeland, MI 49464
616/392-7195, FAX: 616/392-4219

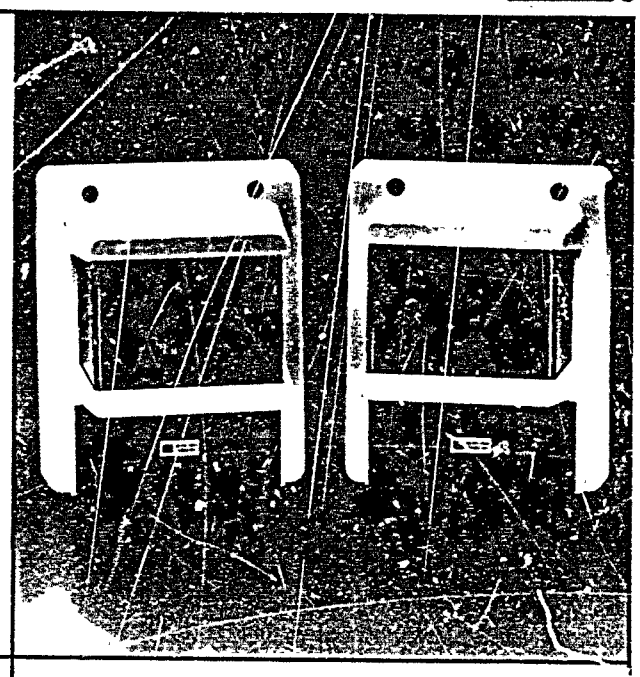
Printed on recycled paper.

GX031792-2

Beam Smoke Detector

DS 240

Long Range Beam Smoke Detector



Featuring...

- ☐ Easy Bore Sight Alignment
- ☐ 30' to 350' Coverage
- ☐ 6 Sensitivity Levels
- ☐ 180° Horizontal Pointability
- ☐ Automatic Signal Synchronization
- ☐ Easy Maintenance
- ☐ High RFI Immunity
- ☐ Automatic Environmental Compensation
- ☐ Self-Adjusting Circuitry
- ☐ UL Listed, ULC Listed, CSFM Approved, BS & A Approved

Detection Systems, Inc. 130 Perinton Parkway, Fairport, New York 14450
Fairport, NY: 800/289-0096; 716/223-4060; **FAX** 716/223-9180
Hixson, TN: 800/727-3002; 615/877-3020

DS240 Specifications

Power Requirements
Operating Voltage: 18 to 32 VDC with a maximum allowable ripple of 4 Vp-p.
Standby Current: @ 24 VDC, receiver draws 40 mADC, transmitter draws 35 mADC.

Alarm Loop Configuration
Conventional 4-wire system.

Range
30 to 350 ft. (10m to 110m) range. Up to ±90° horizontal and ±10° vertical aiming capability.

Alarm Contacts
Form "A" (C, NO) contacts rated 1 amp, 60 VDC maximum for DC resistive loads.

Trouble Contacts
Form "B" (C, NC, contacts rated 1 amp, 60 VDC maximum for DC resistive loads.

Auxiliary Alarm Contacts
Form "C" (C, NO, NC) contacts rated 1 amp, 60 VDC maximum for DC resistive loads.

Storage and Operating Temperature
+32°F to +130°F (0°C to +54°C).

Mounting
Separate mounting base. The units are designed to be surface mounted, or mounted to 4" square, octagonal, single or double gang electrical boxes (not supplied).

Tamper Protection
Access door tamper switch in series with trouble contacts.

Sensitivity
Field selectable for 20, 30, 40, 50, 60, or 70% beam obscuration.

Signal Delay
Fire = 30 ±2 seconds; Trouble = 20 ±2 seconds.

Self-Compensating Circuitry
Receiver automatically adjusts for signal loss due to dust/dirt build-up on covers. Signals a trouble condition upon a 50% decrease or 20% increase in signal.

Automatic Signal Synchronization
Receiver automatically tunes to signal from Transmitter during setup mode. No need for sync wiring between Transmitter and Receiver.

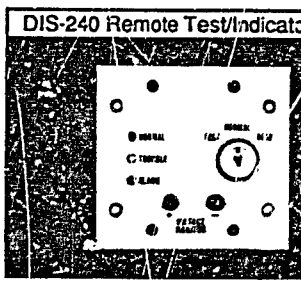
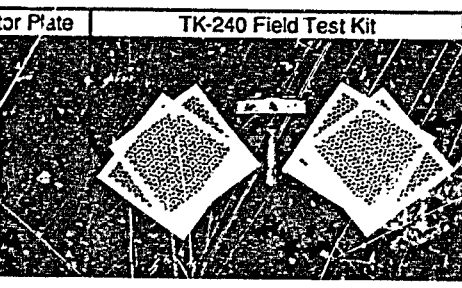
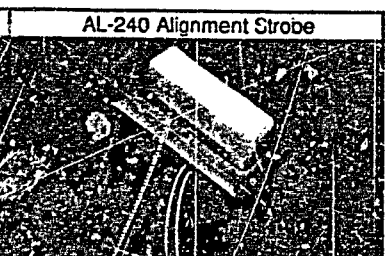
Reference Signal Optimization
Receiver employs Automatic Gain Control (AGC) which automatically adjusts the signal level during setup or after a reset condition. This allows the system to optimize the signal regardless of the distance between the Transmitter and Receiver.

Optical Design
Vernier-Adjustable optics with bore sight alignment allows for easy setup.

Radio Frequency Immunity
No alarm or setup on critical frequencies in the range from 25 to 950 Megahertz using a 50 Watt transmitter.

Ordering Information
To order, specify DS240 and optional accessories shown below.
For ULC Installations, specify the DS240CAN and optional accessories shown below.

Listings and Approvals:	Listing Number:
Underwriter's Laboratories, Inc.	S3019
Underwriter's Laboratories of Canada	CS692
California State Fire Marshal	7257-1062:102
New York City Board of Standards and Appeals	Calendar # 723-87-SA

DIS-240 Remote Test/Indicator Plate	TK-240 Field Test Kit	AL-240 Alignment Strobe
		

Form 3651 Rev. A 5/91

State Alarm/Electric Co., Inc.

1260 Lisbon Street Lewiston, Maine 04240 (207) 782-2885

AGREEMENT

FOR STATE THEATER

- ☐ PURCHASE / INSTALL
- ☐ LEASE / INSTALL
- ☐ SERVICE AGREEMENT
- ☐ MONITORING
- ☐ REPAIR ORDER
- ☐ ELECTRICAL
- ☐ _____

SPECIFICATIONS

PROPOSAL FOR FIRE/LITE SAFETY EQUIPMENT

1...Knox Box vault
1...Fire Lite MS-9200 advanced fire control panel
1...Remote 8 zone relay card
1...XRM Power supply card
2...12 volts 7AH Gell battery
2...System sensor beam smoke detectors
1...AU-360-M-1 Audio EVAC Panel
1...DMR-Digital message repeater
16...Gent x horn/speaker/strobe units
11...BG-10LX Addressable pull stations
25...135' Rate/rise heat detectors
5...M300 Remote contact device modules
10...Addressable smoke detectors
2...Zone place of refuge systems
1...2 circuit city box

1. All equipment 50% down 50% on delivery
2. All staging and ladders over 8' by owner
3. All cutting, patching, drilling where necessary by owner
4. All AC wiring by others
5. All labor to install above by State Alarm Company
6. All external cost by city of Portland assumed by owner
7. Work will be done by October 31, 1993

FOR THE CONTRACT PRICE OF ..... $_____
TAX ..... $_____
TOTAL ..... $_____
LESS DEPOSIT ..... $_____
BALANCE ..... $_____

ACCEPTANCE OF ABOVE AGREEMENT AS OUTLINED ABOVE AND UNDER CONDITIONS ON REVERSE SIDE *. PAYMENT OF BALANCE WILL BE MADE AT COMPLETION OF INSTALLATION OR REPAIR ORDER UNLESS NOTED ABOVE.

MONITORING $ X per mo.

SERVICE/LEASE AGREEMENT $ X per mo.

PURCHASER _____ DATE 9/30/93

STATE ALARM/ELECTRIC CO., INC. David Dodge Jr.
Authorized Representative

APPLICATION FOR PERMIT

DEPARTMENT OF BUILDING INSPECTIONS SERVICES

ELECTRICAL INSTALLATIONS

Date 19 July 1994, 19__
Receipt and Permit number 3168

To the CHIEF ELECTRICAL INSPECTOR, *Portland, Maine:*

The undersigned hereby applies for a permit to make electrical installations in accordance with the laws of Maine, the Portland Electrical Ordinance, the National Electrical Code and the following specifications:

LOCATION OF WORK: 609 Congress St State Theatre

OWNER'S NAME: Congress Property Managemtn ADDRESS: ____

	FEES
OUTLETS:	
Receptacles 30 Switches 10 Plugmold ____ ft. TOTAL ____	8.00
FIXTURES: (number of)	
Incandescent 20 Flourescent ____ (not strip) TOTAL ____	2.00
Strip Flourescent ____ ft.	
SERVICES:	
Overhead ____ Underground ____ Temporary ____ TOTAL amperes ____	
METERS: (number of) ____	
MOTORS: (number of)	
Fractional ____	
1 HP or over ____	
RESIDENTIAL HEATING:	
Oil or Gas (number of units) ____	
Electric (number of rooms) ____	
COMMERCIAL OR INDUSTRIAL HEATING:	
Oil or Gas (by a main boiler) ____	
Oil or Gas (by separate units) ____	
Electric Under 20 kws ____ Over 20 kws ____	
APPLIANCES: (number of)	
Ranges ____ Water Heaters ____	
Cook Tops ____ Disposals ____	
Wall Ovens ____ Dishwashers ____	
Dryers ____ Compactors ____	
Fans ____ Others (dencte) ____	
TOTAL ____	
MISCELLANEOUS: (number of)	
Branch Panels ____	
Transformers ____	
Air Conditioners Central Unit ____	
Separate Units (windows) ____	
Signs 20 sq. ft. and under ____	
Over 20 sq. ft. ____	
Swimming Pools Above Ground ____	
In Ground ____	
Fire/Burglar Alarms Residential ____	
Commercial ____	
Heavy Duty Outlets, 220 Volt (such as welders) 30 amps and under ____	
over 30 amps ____	
Circus, Fairs, etc. ____	
Alterations to wires ____	
Repairs after fire ____	
Emergency Lights, battery 4	4.00
Emergency Generators ____	
INSTALLATION FEE DUE:	
FOR ADDITIONAL WORK NOT ON ORIGINAL PERMIT ..... DOUBLE FEE DUE:	
FOR REMOVAL OF A "STOP ORDER" (304-16.b)	
TOTAL AMOUNT DUE:	15.00

INSPECTION:

Will be ready on ____, 19__; or Will Call ____ XXX

CONTRACTOR'S NAME: Thomas Electric Cliff Thomas

ADDRESS: RR 1 Box 305 W. Buxton

TEL.: 727-3257

MASTER LICENSE NO.: 3168 SIGNATURE OF CONTRACTOR: C. Thomas

LIMITED LICENSE NO.: ____

INSPECTOR'S COPY — WHITE

OFFICE COPY — CANARY

CONTRACTOR'S COPY — GREEN

ELECTRICAL INSTALLATIONS

Permit Number 3168

Location 609 Congress

Owner State Highway

Date of Permit 7-19-99

Final Inspection 1-5-95

By Inspector SW Rumsey

Permit Application Register Page No. Computer

INSPECTIONS: Service _____ by _____

Service called in _____

Closing-in 7-26-99 by SB

PROGRESS INSPECTIONS: _____ / _____ / _____

_____ / _____ / _____

_____ / _____ / _____

_____ / _____ / _____

_____ / _____ / _____

_____ / _____ / _____

DATE:	REMARKS:

ACORD CERTIFICATE OF INSURANCE

CERTIFICATE NUMBER: | ISSUE DATE (MM/DD/YY): 12/13/94

PRODUCER

Kelly-Murray Insurance Agency
P.O. Box 199 11426 York Road
Hunt Valley MD 21030-0199

410-527-3434

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED

MBNA Corp. and Subsidiaries
Attn: Kristin Birch
400 Christiana Road
Newark DE 19713

COMPANIES AFFORDING COVERAGE

COMPANY LETTER A: Federal Insurance Company
COMPANY LETTER B:
COMPANY LETTER C:
COMPANY LETTER D:
COMPANY LETTER E:

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
	GENERAL LIABILITY					
A	X COMMERCIAL GENERAL LIABILITY	35306328	03/01/94	03/01/95	GENERAL AGGREGATE	$ 3,000,000.
	CLAIMS MADE X OCCUR.				PRODUCTS-COMP/OP AGG.	$ 3,000,000.
	OWNER'S & CONTRACTOR'S PROT.				PERSONAL & ADV. INJURY	$ 1,000,000.
					EACH OCCURRENCE	$ 1,000,000.
					FIRE DAMAGE (Any one fire)	$ 1,000,000.
					MED. EXPENSE (Any one person)	$ 10,000.
	AUTOMOBILE LIABILITY					
	ANY AUTO				COMBINED SINGLE LIMIT	$
	ALL OWNED AUTOS				BODILY INJURY (Per person)	$
	SCHEDULED AUTOS					
	HIRED AUTOS				BODILY INJURY (Per accident)	$
	NON-OWNED AUTOS					
	GARAGE LIABILITY				PROPERTY DAMAGE	$
	EXCESS LIABILITY					
	UMBRELLA FORM				EACH OCCURRENCE	$
	OTHER THAN UMBRELLA FORM				AGGREGATE	$
	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY				STATUTORY LIMITS	
					EACH ACCIDENT	$
					DISEASE—POLICY LIMIT	$
					DISEASE—EACH EMPLOYEE	$
	OTHER					

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS
Re: Space leased at: 901 Washington Avenue, Portland, ME 04101

CERTIFICATE HOLDER

J.B. Brown
482 Congress Street
P.O. Box 207
Portland ME 04112-0207

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE: David E. Kelly

ACORD 25-S (7/90) © ACORD CORPORATION 1990

City of Portland, Maine – Building or Use Permit Application 389 Congress Street, 04101, Tel: (207) 874-8703, FAX: 874-8716

Location of Construction: 609 Congress St- 6th flr	Owner: Congress Property Management	Phone: 775-1737	Permit No: 950362
Owner Address: 51A Oak St- Ptld, ME 04101	Lessee/Buyer's Name:	Phone:	BusinessName:
Contractor Name: owner	Address:	Phone:	
Past Use: office space	Proposed Use: office space w inter renvtns	COST OF WORK: $ 20,000	PERMIT FEE: $ 120
		FIRE DEPT. ☐ Approved ☐ Denied	INSPECTION: Use Group: Type:
		Signature:	Signature:

Proposed Project Description:

make interior renovations

PEDESTRIAN ACTIVITIES DISTRICT (P.U.D.)

Action: Approved ☐ Approved with Conditions: ☐ Denied ☐

Signature: Date:

Permit Taken By: L Chase | Date Applied For: 4/18/95

1. This permit application doesn't preclude the Applicant(s) from meeting applicable State and Federal rules.
2. Building permits do not include plumbing, septic or electrical work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit

SIGNATURE OF APPLICANT | ADDRESS: | DATE: 4/18/95 | PHONE:

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE | PHONE:

White–Permit Desk Green–Assessor's Canary–D.P.W. Pink–Public File Ivory Card–Inspector

PERMIT ISSUED
Permit Issued:
APR 20 1995
CITY OF PORTLAND

Zone: B-3 | CBL: 46 D 31

Zoning Approval: OK LS 4/19/95

Special Zone or Reviews:
☐ Shoreland
☐ Wetland
☐ Flood Zone
☐ Subdivision
☐ Site Plan maj ☐ minor ☐ mm ☐

Zoning Appeal
☐ Variance
☐ Miscellaneous
☐ Conditional Use
☐ Interpretation
☐ Approved
☐ Denied

Historic Preservation
☐ Not in District or Landmark
☐ Does Not Require Review
☐ Requires Review

Action:
☐ Appoved
☐ Approved with Conditions
☐ Denied

Date: 4/19/95

CEO DISTRICT 5

m.W.J

FROM: P. Samuel Hoffses, Chief of Inspection Services

DATE: May 17, 1995

SUBJECT: State Theater, 609 Congress Street
Plaster Falling from Ceiling 1st balcony

On May 17, 1995 at 8:02 P.M., I received a call at home from the Portland Fire Department Dispatcher requesting the presence of a building official at the State Theater on Congress Street to investigate a ceiling falling and causing injury to four people. Upon arriving at the theater at 8:31 P.M., I reported to Deputy Chief Thompson of the Portland Fire Department. He showed me the area of the ceiling in question.

The section of the ceiling that had fallen, was a section under the first balcony on the southerly side (facing the stage, left side) one quarter down the balcony. In this area, there is a structural beam which runs the width of the theater and extends down from the balcony ceiling by approximately 1 to 2 feet. The beam is enclosed with concrete and has plaster over the concrete. The thickness of the plaster is approx. 3/4" on the sides and 1" to 2" on the bottom. The section that fell was on the bottom section measuring about 2' in width and 5' in length. I made a visual inspection of the section and examined the fallen plaster. I did not see any signs of moisture on the plaster but thought I could see water marks on he concrete and plaster in the area of the damaged ceiling. I asked the fire department to use their plaster hook to remove any loose areas which they did. The plaster from the edge toward the building exterior wall was removed easily. This was about a 2' X 6' section. I also asked them to go to the other end of the damaged area and remove as much loose plaster as possible or until it becomes very difficult to remove. This was done and approximately a 2' X 3'section was removed. (Upon arrival, the fire department had sectioned off the area under the beam and four rows up and down.) I requested the fire department to probe along the beam for other voids. They found none. I then proceeded to the void between the balcony ceiling and floor. I investigated this area (visually and by touch) but found no signs of water or structural movement in the area of the beam. Next, I investigated the void between the building roof and the ceiling of the main theater. I was looking for any water damage or any item that might suggest a structural problem. I was accompanied by a firefighter and the building Manager, Bruce-----. I walked each truss running the length of the theater. Only one water spot was found. The next area I looked at was in the basement area, and no type of structural movemsnt or failure was found.

I then met with the theater manager and told him I wanted a structural inspection to be made by either an architect or engineer. I stressed that a structural engineer would be a better choice and the manager agreed to have this done on the 18th but before the next performance.(the evening of the 18th) I left the theater at 9:40 P.M.

At 9:40 a.m.,on May 18, 1995, I returned to the State Theater with LT. McDougall of the Portland Fire Department. We inspected the damage area once again with the management staff. The area in which I thought was water marked on the 17th was marked on the concrete. The area in question was again examined. We did not see stress marks or loose plaster. I requested the time that the architect would be there. I was told that Mr. Victor Sango, Architect, would be examining the damage area around noon. Mr. Sango was the architect during the 1993 renovations. LT. McDougall and I left the

site at 10:15.

At 11:30, received a call stating that Mr. Sango would be at the theater at 12:15 P.M. At 12:10, LT. McDougall and I returned to the theater and met with the theater staff and Mr. Sango. We all agreed the proper steps were taken and Mr. Sango suggested and it was agreed that a plaster contractor should look at this area. LT. McDougall and I left the site and I returned to City Hall. At 12:30 received a call from a staff member and he stated that Mr. Stango and the plaster contractor had checked the area and were satisfied with the conditions of the plaster. Once again, I suggested that a structural engineer look at the entire theater and the condition of the remaining plaster.

During my talks with the theater staff and owner, I stated that the plaster covering the concrete did not have to be left there for fire protection because now that the theater is fully sprinkled, the fire resistant rating on the truss could be reduced one hour. Therefore, the plaster around the beam could be removed if so desired.

On May 19, 1995, I sent a letter requesting structural analysis.

On May 22, 1995, I talked with owner of building. They will not be having any more events until the theater has been checked, but will keep me informed. Call 879-0949

On May 22, 1995, received call from Mr. Stango. He stated he had been removed from the job at the theater and had not finished his review. Then tried calling Lola Kampf, 879-0949.

On May 23, 1995, called Ms. Lola (Nick) Kampf, ref. engineer on job. Nick Kampf explained to me that Dave Tetreau, P.E. of S. & D. would be doing the structural analysis.

On May 23, 1995, Mr. Kampf called stating that the plaster would be removed.

On May 25, 1995, I talked with Mr. Kampf regarding the State Theater. All plaster is removed and skim coat is on. David Tetreau is still on job. Plaster checked again.

On June 5, 1995, I talked with D.T. of Structural Design and he stated he would send a copy of his work report to me. He also stated that a full inspection of all plaster had not been done at this time and was waiting to get the word from the owners.

CRITERIUM® MOONEY ENGINEERS

630 BRIGHTON AVENUE
PORTLAND ME 04102
TEL 207 775-1969
TOLL FREE : 800 922-1969
FAX 207 775-4405

MEMORANDUM

TO: Sam Hoffses, City of Portland
Department of Inspections

FROM: Victor O. Stango, P.E.

DATE: May 24, 1995

RE: State Theater Ceilings

CC: Nick and Lola Kampf
Scott Simons Architects

As I discussed with you yesterday during our telephone call, Nick and Lola Kampf have terminated our engineering services related to the above project.

Based on our limited review of the theater, I recommend that the following be completed prior to any further use of the theater:

1) complete removal of all plaster along the bottom of the balcony truss (adjacent to spalled area;

2) similar removal of other plaster where not mechanically anchored or hung from supporting elements;

3) complete inspection of all ceilings within the theater for condition and adequacy, including lath, hangers, etc.;

4) removal of all debris on top of ceilings;

5) inspection of all stairs, railings, etc. for structural integrity and Code compliance.

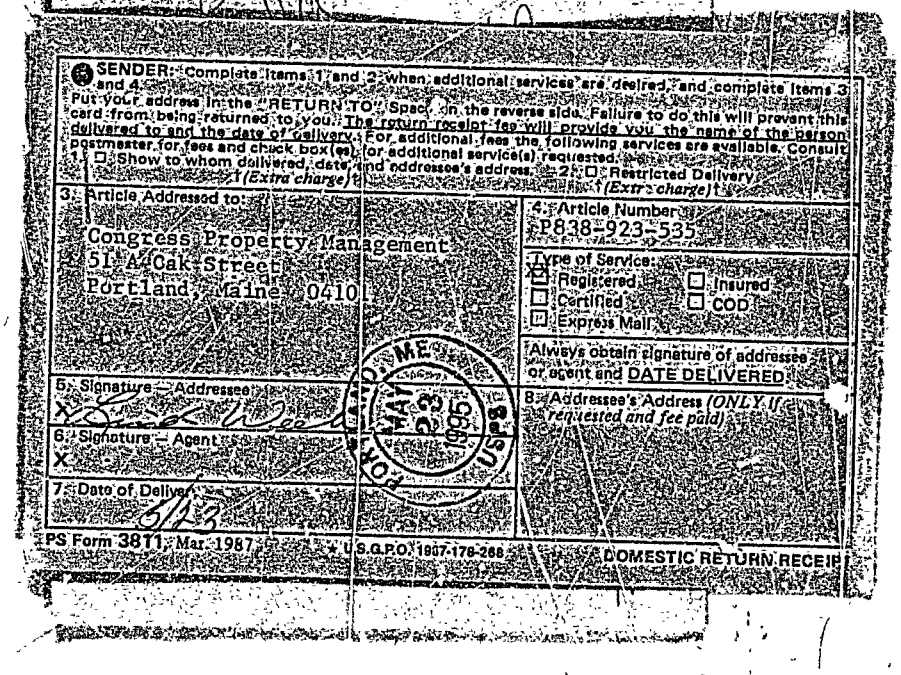
We regret that we cannot complete our review of the project. If I can be of further service in this matter, please call.

VOS/bb

call David Fetrow of S and D.

REGISTERED PROFESSIONAL ENGINEERS
BUILDING DIAGNOSTICS
INSPECTIONS
ANALYSIS
MAINTENANCE PLANNING
DESIGN

Sam



SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.
1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge)
2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
Congress Property Management
51 A Oak Street
Portland, Maine 0410

4. Article Number
P838-923-535

Type of Service:
☒ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery
5/23

8. Addressee's Address (ONLY if requested and fee paid)

PORTLAND, ME MAY 23 1995 USPS

PS Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-268 DOMESTIC RETURN RECEIPT

Sam 5-19
11 3c

Michael Bowdler
799-2360

— Dg has idea
why plaster fell
G sound waves

lec

Inspection Services
P. Samuel Hoffses
Chief

Planning and Urban Development
Joseph E. Gray Jr.
Director

CITY OF PORTLAND

May 19, 1995

Congress Property Management
51A Oak Street
Portland, Maine 04101

RE: 609 Congress St.
(State Theater)

Dear Sir or Madam,

This is a follow-up on the verbal conversation we had on both May 17th and 18th on having a structural analysis done by a Registered Structural Engineer on the structure with special alterations on the plaster issue. I feel due to concerns of all parties, that this work should be done within the next few days, but no later then the end of the month. A copy of the report must be submitted to this office.

Thank you in advance for your assistance in this matter.

Sincerely,

P. Samuel Hoffses
Chief of Inspection Services

Inspection Services
P. Samuel Hoffses
Chief

Planning and Urban Development
Joseph E. Gray Jr.
Director

CITY OF PORTLAND

May 19, 1995

Congress Property Management
51A Oak Street
Portland, Maine 04101

RE: 609 Congress St.
(State Theater)

Dear Sir or Madam,

This is a follow-up on the verbal conversation we had on both May 17th and 18th on having a structural analysis done by a Registered Structural Engineer on the structure with special alterations on the plaster issue. I feel due to concerns of all parties, that this work should be done within the next few days, but no later then the end of the month. A copy of the report must be submitted to this office.

Thank you in advance for your assistance in this matter.

Sincerely,

P. Samuel Hoffses
Chief of Inspection Services

Congress Property Management

PO Box 4211
Portland, Maine 04101
(207) 879-0949

609 Congress St

July 26, 1995

Sam Hoffses
Inspection Services
389 Congress Street
Portland, Maine 04101

Dear Sam:

Thank you for your guidance during the plaster accident of May 17, 1995. Enclosed is David Tetreault's structural analysis in response to your letter of May 19, 1995, as well as a letter from Byron O'Shea, of O'Sheas plastering, detailing the repair. The subsequent roof leak that you noted and which damaged plaster has been repaired on 6/19/95 by Maine Roofing. The roofers then water tested the remaining roof as we discussed and noted no other leaks. I am still awaiting here report which I will forward to you. Byron O'Shea walked the suspended plaster ceiling on 6/17/95. Water as you know damages plaster, so but for the exception of avoiding more water damage to plaster he noted no immediate other actions to take. To prevent such plaster damage, as you know, a new rubber membrane was put on the theater on July 30, 1991.

I would like to at this time also reiterate the Congress Property leases the State Theater to Perfect Pitch whose principals are Kelly Grave, Steve Bailey, and Kim Magid. Whenever you have non structural concerns such as the suspended ceiling, they should be addressed to them with a copy to us. But of course, I am also available to you regarding any of my properties at any time. Their address is P.O. Box 4195, Portland, Maine 04101 and their phone number is 773-5540. If there are any areas you feel have not been adequately addressed please contact me at 775-5003.

Sincerely,

Nicholas Kampf
President
Congress Property Management

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
JUN 27 1995
RECEIVED

SHEA'S plastering CO. INC.

Interior and exterior wall & ceiling specialists.

June 1, 1995

State Theater Repairs

State Theater
P.O. Box 40195
Portland, Maine 04101

To whom it may concern,

The following is a description of the damage and repairs for the above mentioned project.

Damage Description:

On the underside of the balcony ceiling a cement beam, coated with one coat of Gypsum plaster that was approximately 1"-2" thick. Looking at the beam from the stage, the plaster had been removed approximately 16' from the right to left side of the beam. The remaining plaster on the beam was cracked even with the bottom side of the cement, approximately the same distance.

REPAIR DESCRIPTION:

We removed the plaster from the underside of the beam, and recoated with a coat of SILPRO WELD-O-BOND with DIAMOND PLASTER finish approximately, 1/8"-1/4" thick.

Sincerely,

Byron Shea
President
Shea's Plasterin

BS:lg

RECEIVED
JUN 27 1995
DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME

RR 1 Box 559, Orr's Island, ME 04066 (207) 833-2918

FROM: P. Samuel Hoffses, Chief of Inspection Services

DATE: May 17, 1995

SUBJECT: State Theater, 609 Congress Street
Plaster Falling from Ceiling 1st balcony

On May 17, 1995 at 8:02 P.M., I received a call at home from the Portland Fire Department Dispatcher requesting the presence of a building official at the State Theater on Congress Street to investigate a ceiling falling and causing injury to four people. Upon arriving at the theater at 8:31 P.M., I reported to Deputy Chief Thompson of the Portland Fire Department. He showed me the area of the ceiling in question.

The section of the ceiling that had fallen, was a section under the first balcony on the southerly side (facing the stage, left side) one quarter down the balcony. In this area, there is a structural beam which runs the width of the theater and extends down from the balcony ceiling by approximately 1 to 2 feet. The beam is enclosed with concrete and has plaster over the concrete. The thickness of the plaster is approx. 3/4" on the sides and 1" to 2" on the bottom. The section that fell was on the bottom section measuring about 2' in width and 5' in length. I made a visual inspection of the section and examined the fallen plaster. I did not see any signs of moisture on the plaster but thought I could see water marks on he concrete and plaster in the area of the damaged ceiling. I asked the fire department to use their plaster hook to remove any loose areas which they did. The plaster from the edge toward the building exterior wall was removed easily. This was about a 2' X 6' section. I also asked them to go to the other end of the damaged area and remove as much loose plaster as possible or until it becomes very difficult to remove. This was done and approximately a 2' X 3'section was removed. (Upon arrival, the fire department had sectioned off the area under the beam and four rows up and down.) I requested the fire department to probe along the beam for other voids. They found none. I then proceeded to the void between the balcony ceiling and floor. I investigated this area (visually and by touch) but found no signs of water or structural movement in the area of the beam. Next, I investigated the void between the building roof and the ceiling of the main theater. I was looking for any water damage or any item that might suggest a structural problem. I was accompanied by a firefighter and the building Manager, Bruce-----. I walked each truss running the length of the theater. Only one water spot was found. The next area I looked at was in the basement area, and no type of structural movement or failure was found.

I then met with the theater manager and told him I wanted a structural inspection to be made by either an architect or engineer. I stressed that a structural engineer would be a better choice and the manager agreed to have this done on the 18th but before the next performance.(the evening of the 18th) I left the theater at 9:40 P.M.

At 9:40 a.m.,on May 18, 1995, I returned to the State Theater with LT. McDougall of the Portland Fire Department. We inspected the damage area once again with the management staff. The area in which I thought was water marked on the 17th was marked on the concrete. The area in question was again examined. We did not see stress marks or loose plaster. I requested the time that the architect would be there. I was told that Mr. Victor Sango, Architect, would be examining the damage area around noon. Mr. Sango was the architect during the 1993 renovations. LT. McDougall and I left the

site at 10:15.

At 11:30, received a call stating that Mr. Sango would be at the theater at 12:15 P.M. At 12:10, LT. McDougall and I returned to the theater and met with the theater staff and Mr. Sango. We all agreed the proper steps were taken and Mr. Sango suggested and it was agreed that a plaster contractor should look at this area. LT. McDougall and I left the site and I returned to City Hall. At 12:30 received a call from a staff member and he stated that Mr. Stango and the plaster contractor had checked the area and were satisfied with the conditions of the plaster. Once again, I suggested that a structural engineer look at the entire theater and the condition of the remaining plaster.

During my talks with the theater staff and owner, I stated that the plaster covering the concrete did not have to be left there for fire protection because now that the theater is fully sprinkled, the fire resistant rating on the truss could be reduced one hour. Therefore, the plaster around the beam could be removed if so desired.

On May 19, 1995, I sent a letter requesting structural analysis.

On May 22, 1995, I talked with owner of building. They will not be having any more events until the theater has been checked, but will keep me informed. Call 879-0949

On May 22, 1995, received call from Mr. Stango. He stated he had been removed from the job at the theater and had not finished his review. Then tried calling Lola Kampf, 879-0949.

On May 23, 1995, called Ms. Lola (Nick) Kampf, ref. engineer on job. Nick Kampf explained to me that Dave Tetreau, P.E. of S. & D. would be doing the structural analysis.

On May 23, 1995, Mr. Kampf called stating that the plaster would be removed.

On May 25, 1995, I talked with Mr. Kampf regarding the State Theater. All plaster is removed and skim coat is on. David Tetreau is still on job. Plaster checked again.

On June 5, 1995, I talked with D.T. of Structural Design and he stated he would send a copy of his work report to me. He also stated that a full inspection of all plaster had not been done at this time and was waiting to get the word from the owners.

From: D. Lemuel Hoffa, Chief of Dept. 10f

Date: 17 May 95

Subject: State Theater 609 Congress St.
Plaster Falling From Ceiling, 1st balcony

On 17 May 1995 @ 8:02 PM I received a call @ home from the Portland Fire Dept. Dispatcher requesting the presence of a building official at the State Theater on Congress St. to investigate a ceiling falling and causing injury to 4 people. Upon arriving at the theater 834PM. reported to Deputy Chief Thompson of the PFD and he showed me the area of the ceiling in question.

The section of the ceiling that had falling was a section under the 1st balcony on the south side (facing the stage left side) approximately down the balcony. On this area there is a structural beam which runs the width of the theater and extends from the balcony ceiling by approx. 1'to 2'. The beam is enclosed with concrete and has plaster over the concrete. The thickness of the plaster is approx. 3/4" on the sides and 1"to 2" on the bottom. The section that fell was of the bottom section measuring about 2' in width and 5 feet in length. I made the usual inspection of the section & examined the fallen plaster. I didn't see any signs of moisture on the plaster but though I could see water marks on the concrete and plaster in the

area of the damaged ceiling. I asked the fire dept. to use their pike pole to remove any loose area, which they did. The pole went through the edge toward the building exterior wall was removed easily. This was about 2' x 6' section. I also asked them to go to the other end of the damage area and remove as much loose plaster as possible, as until it became very difficult to remove. This was done and approx 2' x 3' section was removed. (Upon arrival the fire dept had sections off the area under the beam and from rear up and down). I requested the fire dept. to probe along the beam for other voids, they didn't find any. I then went to the void between the balcony ceiling and floor, I investigated this area (visual and touch) and found no signs of water or structural movement in the area of the beam. I then investigated the void between the building roof and the ceiling of the main theater. I was looking for any water damage or any item that might suggest a structural problem. This was accompied by a firefighter and the building manager, Mike. I walked each truss bay the length of the theater. Only one water spot was found, the next area I looked at was adjacent area, I didn't find any type of structural movement or failure.

I then met with the theater manager

and told them I want a structural engineer to be made by a other architects / or engineer. I stress a Structural engineer would be better there. The manager agreed. It have this done on the 18th and before the next performance.
(The nite of the 18th) I left the theater at 9:40 PM.

On 18 May 95 I returned to the State theater with Lt McDaniel P.D. @ 9:40 AM, we looked at the damage area one again with the management staff and Lt. Mc. The area in which I thought were water marks on the 17th were marks on the concrete. We all looked at the area in question. I couldn't see any thing to make it loss plaster. I requested to know the time when the architect would be there. (They stated Mr. Victor Sanyo (architect) would be looking at the damage around noon. Mr. Sanyo was the Architect during the 93 renovation). Lt. Mc. and I left the site at 10:15.

At 11:30 I received a call stated Mr. Sanyo would be at the theater @ 12:15 PM. At 12:10 PM Lt. McDaniel and I returned to the theater and met with the theater staff and Mr. Sanyo. we all agreed the proper steps were taken and Mr. Sanyo suggested that a Plaster person should look at area, which was agreed upon. Lt. Mc. and I left the site and I returned to City hall. At 2pm I received a call from the Staff member and

VICTOR STANGO
775-1969 4-

He stated that Mr. Lenaye and the plaster Contractor had check the area and were satisfied with the condition of the plaster. I once again suggested that a structural engineer look at the whole theater on the condition of the remaining plaster.

During my talk with the theater staff I found out that the plaster covering the concrete didn't have to be left there for fireproofing fire protection because now that the theater is fully sprinklered the fire resistive rating on the truss could be reduced 1 hr. Therefore the plaster around the beam could be removed, if so desired.

19 MAY 95 Sent Letter requesting structural analysis.

22 MAY 95 Talked with owner of building they will NOT have any more event until The Theater has been checked — WILL keep me informed — call 879-09[illegible]

22 MAY 95 Call From MR. V. Stango, he stated he had been removed From The job at The Theater and hadn't finished his review. Tried calling Lola Kampf, 879-0949 —

23 MAY 95 call MS. Lola Kampf ref. Eng. on job. *Nick* Kampf explained To me That Dave Detroit (ref. S.E.) would be doing the structural analysis —

MAY 95 MR. Kampf called plaster will be removed —

25/May/95 – Talked with Mr. Kampf on STATE Theater – All plaster removed skim coat on – David Teteau – still on job – Plaster checked ~~[illegible]~~ again.

5/June/95 Talked with D.T. of Structural Design he stated he would send a copy of his work report to me – He also stated that a full inspection of all plaster hadn't been done at this time he was waiting to get the word from the owner –

City of Portland, Maine – Building or Use Permit Application 389 Congress Street, 04101, Tel: (207) 874-8703, FAX: 874-8716

Location of Construction: 389 Congress St- 6th flr	Owner: Congress Property Management	Phone: 775-1737	Permit No: 950362
Owner Address: 114 Exeter St- Portl, ME 04101	Lessee/Buyer's Name:	Phone:	BusinessName:
Contractor Name:	Address:	Phone:	
Past Use: office space	Proposed Use: office space & later rentas	COST OF WORK: $	PERMIT FEE: $
		FIRE DEPT. ☐ Approved ☐ Denied Signature:	INSPECTION: Use Group: B Type: B-93 Signature:
Proposed Project Description: suite interior renovations		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: ☐ Approved ☐ Approved with Conditions: ☐ Denied ☐ Signature: Permit issued Date:	
Permit Taken By: L Chase	Date Applied For: 3/1/95		

PERMIT ISSUED
Permit Issued:
APR 20 1995
CITY OF PORTLAND

Zone: B-3 CBL:

Zoning Approval: CU 4/11/95

Special Zone or Reviews:
- ☐ Shoreland
- ☐ Wetland
- ☐ Flood Zone
- ☐ Subdivision
- ☐ Site Plan maj ☐ minor ☐ mm ☐

Zoning Appeal
- ☐ Variance
- ☐ Miscellaneous
- ☐ Conditional Use
- ☐ Interpretation
- ☐ Approved
- ☐ Denied

Historic Preservation
- ☐ Not in District or Landmark
- ☐ Does Not Require Review
- ☐ Requires Review

Action:
- ☐ Approved
- ☐ Approved with Conditions
- ☐ Denied

Date: 4/11/95

1. This permit application doesn't preclude the Applicant(s) from meeting applicable State and Federal rules.
2. Building permits do not include plumbing, septic or electrical work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit

SIGNATURE OF APPLICANT | ADDRESS: | DATE: | PHONE:

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE | PHONE:

CEO DISTRICT 5

White–Permit Desk Green–Assessor's Canary–D.P.W. Pink–Public File Ivory Card–Inspector

COMMENTS

4-26-95 WIP workers were
on break today
5-13-95 Inspected demo under way
on interior Non-Bearing Walls.

Inspection Record

Type		Date
Foundation:	5-16-95 Checked Framing	
Framing:	OK to Close-in	
Plumbing:		
Final:	6/95/ OK for Cert of Occ.	
Other:		

CITY OF PORTLAND, MAINE
Department of Building Inspection

Certificate of Occupancy

LOCATION 609 Congress St. 6th Floor

Issued to Congress Property Management Date of Issue 7/1/95

This is to certify that the building, premises, or part thereof, at the above location, built — altered — changed as to use under Building Permit No. 950362 , has had final inspection, has been found to conform substantially to requirements of Zoning Ordinance and Building Code of the City, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

PORTION OF BUILDING OR PREMISES	APPROVED OCCUPANCY
office space 6th floor	entire

Limiting Conditions:

This certificate supersedes certificate issued

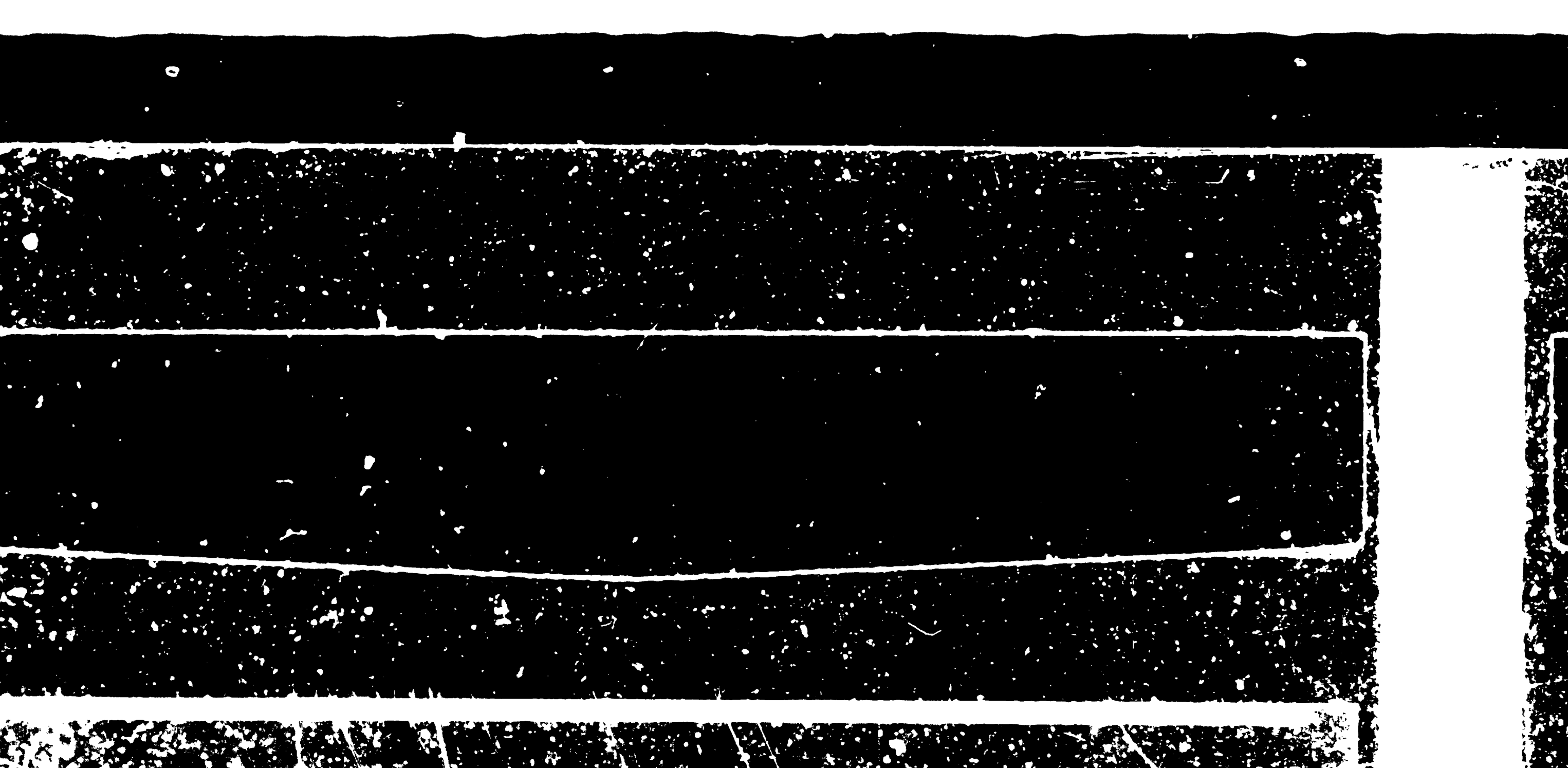
Approved: 7-11-95

(Date) 7/11/95

Inspector

Inspector of Buildings

Notice: This certificate identifies lawful use of building or premises, and ought to be transferred from owner to owner when property changes hands. Copy will be furnished to owner or lessee for one dollar.



Inspection Services
Samuel P. Hoffses
Chief

Planning and Urban Development
Joseph E. Gray Jr.
Director

CITY OF PORTLAND

April 19, 1995

Congress Property Management
51A Oak Street
Portland, ME 04101

Re: 609 Congress St (6th fl)

Dear Sir,

Your application to make interior renovations has been reviewed and a permit is herewith issued subject to the following requirements: This permit does not excuse the applicant from meeting applicable State and Federal laws.

No Certificate of Occupancy will be issued until all requirements of this letter are met.

1. No exterior work shall be done.
2. All exit signs, lights, and means of egress lighting shall be done in accorance with Chapter 10, section & subsections 1023 & 1024 of the City's building code (BOCA National Building Code/1993).
3. A portable fire extinguisher shall be located as per NFPA #10. They shall bear the label of an approved agency and be of an approved type.
4. Fire alarm system shall be maintained to NFPA #72 standards.
5. The fire protection system shall be maintained to NFPA #13.
6. An area of refuse shall be provided as per NFPA and the City's building code (BOCA National Building Code/1993).
7. The sprinkler system shall be maintained to NFPA #14 standards.

Sincerely,

P. Samuel Hoffses
Chief of Inspection Services

cc: LT Mc Dougall, Fire Prevention Bureau