



CITY OF
PORTLAND, OREGON
BUREAU OF DEVELOPMENT SERVICES
1900 SW 4th Ave., Suite 5000
Portland, OR 97201



FACILITY PERMIT

11-187603-000-00-FA

Site Address: 700 SW 5TH AVE

Issued: 10/25/11

FA-Fire Alarms:ALARM PANEL 3085122:PP Atrium :Pioneer PL

PROJECT INFORMATION

Fire Alarms

Alteration

Occ. Group

Const. Type

I-FR

Project Description: Installation of fire alarm strobes in common areas to meet NFPA & ADA requirements. Tennant spaces to remain as-is. Application and 2 sets of plans rec'd.

APPLICANT

ADVANCED ALARM SYSTEMS

Phone (503) 290-4091

PROPERTY OWNER

PIONEER PLACE LIMITED PARTNERSHIP

Phone

CONTRACTOR

No Contractor

Phone

Project Details

Building/Mechanical Inspector BURRISS
Electrical Inspector RISERJ
Fire Marshal GALVANJ
Plumbing Inspector SISKJ
Return Plans/Permit to? applicant

Project Details

Code Edition (Year) 2010 OSSC
Energy Code Edition 2010 Oregon Energy
Folder Name Fire Alarms
Project Reference Number UPGRADE FIRE AL
Zoning - Property (1) TBD

Permit Final 04/05/13

FOR INSPECTION CONTACT Randall,Jerry at 503-823-4032

This permit expires if, at any time, 180 days pass without an approved inspection. If you are not able to obtain an inspection approval within 180 days, you may request a one-time only extension of 180 days by calling 503-823-5996.

**BEFORE
YOU DIG**

ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is 1-800-332-2344).

CITY CONTACT

E-Mail:

Phone:

Fax: (503) 823-7425

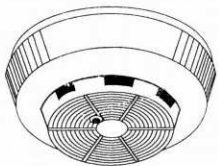
**INSPECTION REQUEST
PHONE NUMBERS**

TDD: (503) 823-6868

**IVR Inspection Request
Number:**

Contact your inspector directly for inspection requests.

Gary T. Boyles
Deputy Fire Marshal
Fire & Life Safety Plans Examiner
1900 SW 4th Ave.
Portland, Oregon 97201
Ph: (503) 823-3778 Fax: (503) 823-7425
gboyles@fire.ci.portland.or.us



FACILITIES PERMIT
APPLICATION FOR PERMIT TO INSTALL
FIRE ALARM SYSTEM
1900 SW 4th Ave. Portland, OR 97201
(503) 823-3718



VALUATION OF WORK: \$ 57,566.00

DATE: 11-18-11

**PLANS MUST BE SUBMITTED TO THE FIRE PREVENTION DIVISION AND APPROVED BEFORE
INSTALLATION**

Location:

Building Name: PIONEER PLACE MALL Occupied as: M

IBC Occupancy Classification: M

Address: 777 SW 4TH AVE Portland, OR Zip 97208

Suite # _____ Levels (#) 4

Building/Facilities Permit No.: _____ Appeal No.: _____

Installation		Coverage	Alarm type
☐ New	☐ Remove	☐ Total	☒ Central Station
☐ Addition	☐ Repair	☐ Partial	☐ Sprinkler Monitoring
☒ Alteration		☒ Exit way	☐ Other _____

No. Smoke Detectors:	No. Strobes: <u>173</u>	No. Horns/Strobes:	No. Spkrs/Strobes: <u>14</u>
No. Heat Detectors:	No. Pull Stations:	No. Auxiliary Panels: <u>9</u>	

Description of Work: INSTALLATION OF FIRE ALARM STROBES IN COMMON
AREAS TO MEET NFPA + ADA REQUIREMENTS.
TENANT SPACES TO REMAIN AS-IS

Installing Company Information:

Applicant Name: SCOTT SULLIVAN
Company Name: ADVANCED ALARM SYSTEMS
Address: 1030 NW CORPORATE DR
City, State, Zip: TROUTDALE OR. 97060
Phone/Fax: 503-290-4091

Owner Information:

Name: TOM ROBERTS
Phone/Fax: 503-228-5800
Mail permit to: ADVANCED ALARM SYSTEMS
Address: 1030 NW CORPORATE DR
City, State, Zip: TROUTDALE OR 97060

SCOTT SULLIVAN
NAME OF APPLICANT

JERRY RAMDAHL
NAME OF INSPECTOR

[Signature]
SIGNATURE

11/18/11
DATE

[Signature]
SIGNATURE

10/25/11
DATE

APPROVED PERMIT INCLUDES ONLY WORK DESCRIBED ABOVE AND/OR ON PLANS AND SPECIFICATIONS BEARING THE
SAME PERMIT NUMBER AND WILL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES OF
THE CITY OF PORTLAND, OREGON.

11-187603FA



NOTE: This calculator uses data provided by the user to perform the calculations described in NFPA 72-2002, 2007, 2010 and 2013 edition, which permits the use of a performance-based alternative in lieu of tables for spacing ceiling mounted audible/visible devices. The user must utilize either Tables provided in NFPA 72 Room Spacing Table for Ceiling-Mounted Visible Appliances or the performance-based alternative to determine the required light output.

Square Room Size: Up to 55' x 55'

Ceiling Height: 10'

Candela: 135

Inscribed Circle Radius: 27.5'

Inscribed Equivalent Facilitation

Angle	UL Required	Distance	Lumens/Ft ²
0	135.00	10.00	1.3500
5	121.50	10.04	1.2058
10	121.50	10.15	1.1784
15	121.50	10.35	1.1336
20	121.50	10.64	1.0729
25	121.50	11.03	0.9980
30	101.25	11.55	0.7594
35	101.25	12.21	0.6794
40	101.25	13.05	0.5942
45	101.25	14.14	0.5063
50	74.25	15.56	0.3068
55	60.75	17.43	0.1999
60	54.00	20.00	0.1350
65	47.25	23.66	0.0844
70	47.25	29.24	0.0553
75	40.50	28.47	0.0500
80	40.50	27.92	0.0519
85	33.75	27.61	0.0443
90	33.75	27.50	0.0446

Assumptions:

1. Minimum calculated illumination requirement of 0.0375 lm/ft².

2. Square rooms with ceiling mounted strobes in the center of the ceiling.
3. Illumination is calculated for two perpendicular planes with brightest profile.



Job Name: Pioneer Place

Prepared By:

Scott Sullivan
Advanced Alarm Systems Inc.
1030 NW Corporate Drive
Troutdale, 97060
503-290-4091

11.187603FA

Circuit Information

Panel Name: Concourse
Circuit Name: Food court back hall 1
Starting Voltage: Starting Voltage = 20.4

(3) amp circuit
Class B @ 14 AWG
DC 24 - volt Supply

Type and Model	Candela	Current	Tone and Volume	Dist from last device (ft)	Dist from source (ft)	14
Strobe SW	15	0.066		55	55	19.908
Strobe SW	15	0.066		25	80	19.695
Speaker/Strobe SPSW	15	0.066		40	120	19.371
Speaker/Strobe SPSW	15	0.066		25	145	19.179
Speaker/Strobe SPSW	15	0.066		25	170	18.997
Speaker/Strobe SPSW	15	0.066		5	175	18.963
Strobe SW	30	0.094		30	205	18.771
Strobe SW	15	0.066		35	240	18.567
Strobe SCW	30	0.094		20	260	18.459
Strobe SCW	30	0.094		20	280	18.363
Strobe SW	15	0.094		95	375	17.964
Strobe SW	15	0.094		60	435	17.748
Strobe SW	15	0.094		40	475	17.628
Strobe SW	30	0.094		20	495	17.580
Speaker/Strobe SPSW	30	0.094		30	525	17.526



Circuit Information

Panel Name: Concourse
 Circuit Name: Food court back hall 1
 Starting Voltage: Starting Voltage = 20.4

(3) amp circuit
 Class B @ 14 AWG
 DC 24 - volt Supply

Type and Model	Candela	Current	Tone and Volume	Dist from last device (ft)	Dist from source (ft)	14
Strobe SW	30	0.094		30	555	17.490
Strobe SW	30	0.094		80	635	17.442
Total current/amps 1.402	Total Dist:635		voltage drop			2.958



Circuit Information

Panel Name: Concourse
 Circuit Name: Food court back hall 2
 Starting Voltage: Starting Voltage = 20.4

(3) amp circuit
 Class B @ 14 AWG
 DC 24 - volt Supply

Type and Model	Candela	Current	Tone and Volume	Dist from last device (ft)	Dist from source (ft)	14
Strobe SW	110	0.202		25	25	20.197
Strobe SW	15	0.066		45	70	19.891
Strobe SW	15	0.066		20	90	19.763
Strobe SW	15	0.066		5	95	19.733
Strobe SW	15	0.066		5	100	19.705
Strobe SW	110	0.202		30	130	19.551
Speaker/Strobe SPSW	30	0.094		65	195	19.302
Speaker/Strobe SPSW	15	0.066		25	220	19.221
Speaker/Strobe SPSW	30	0.094		15	235	19.178
Strobe SW	30	0.094		40	275	19.090
Strobe SW	30	0.094		5	280	19.082
Strobe SW	15	0.066		30	310	19.051
Strobe SW	30	0.094		35	345	19.030
Total current/amps 1.270		Total Dist: 345		voltage drop		1.370



Circuit Information

Panel Name: Concourse
 Circuit Name: Food court dining
 Starting Voltage: Starting Voltage = 20.4

(3) amp circuit
 Class B @ 14 AWG
 DC 24 - volt Supply

Type and Model	Candela	Current	Tone and Volume	Dist from last device (ft)	Dist from source (ft)	14
Strobe SCW	95	0.181		40	40	19.902
Strobe SCW	95	0.181		60	100	19.225
Strobe SCW	95	0.181		50	150	18.718
Speaker/Strobe SPSCWH	135	0.228		40	190	18.358
Strobe SCW	95	0.181		30	220	18.132
Strobe SCWH	135	0.228		90	310	17.559
Strobe SCW	95	0.181		50	360	17.313
Speaker/Strobe SPSCWH	135	0.228		30	390	17.200
Strobe SCW	95	0.181		55	445	17.073
Strobe SCW	95	0.181		65	510	16.998
Total current/amps 1.951		Total Dist:510		voltage drop		3.40



Circuit Information

Panel Name: Concourse
 Circuit Name: Back Hall
 Starting Voltage: Starting Voltage = 20.4

(3) amp circuit
 Class B @ 14 AWG
 DC 24 - volt Supply

Type and Model	Candela	Current	Tone and Volume	Dist from last device (ft)	Dist from source (ft)	14
Strobe SW	15	0.066		180	180	19.36
Strobe SW	15	0.066		15	195	19.28
Strobe SW	30	0.094		50	245	19.03
Strobe SW	30	0.094		35	280	18.88
Strobe SW	15	0.066		40	320	18.73
Strobe SW	15	0.066		80	400	18.47
Strobe SW	15	0.066		45	445	18.34
Strobe SW	30	0.094		25	470	18.27
Strobe SW	15	0.066		30	500	18.22
Strobe SW	15	0.066		25	525	18.18
Strobe SW	15	0.066		120	645	18.06
Strobe SW	30	0.094		40	685	18.04
Total current/amps 0.904		Total Dist:685		voltage drop		2.3



Circuit Information

Panel Name: concourse Atrium
 Circuit Name: Atrium Arcade
 Starting Voltage: Starting Voltage = 20.4

(3) amp circuit
 Class B @ 14 AWG
 DC 24 - volt Supply

Type and Model	Candela	Current	Tone and Volume	Dist from last device (ft)	Dist from source (ft)	14
Strobe SW	15	0.066		50	50	19.88
Strobe SWH	135	0.228		100	150	18.88
Strobe SWH	135	0.228		105	255	17.99
Strobe SWH	135	0.228		110	365	17.22
Strobe SW	110	0.202		45	410	16.97
Strobe SW	110	0.202		65	475	16.69
Strobe SW	15	0.066		45	520	16.59
Strobe SW	110	0.202		40	560	16.49
Strobe SW	110	0.202		60	620	16.37
Total current/amps 1.624		Total Dist:620		voltage drop		4.0



Circuit Information

Panel Name: concourse Atrium
 Circuit Name: Atrium back hall 1
 Starting Voltage: Starting Voltage = 20.4

(3) amp circuit
 Class B @ 14 AWG
 DC 24 - volt Supply

Type and Model	Candela	Current	Tone and Volume	Dist from last device (ft)	Dist from source (ft)	14
Strobe SW	15/75	0.077		25	25	20.27
Strobe SW	15/75	0.077		20	45	20.18
Strobe SW	15/75	0.077		110	155	19.79
Strobe SW	15/75	0.077		100	255	19.41
Strobe SW	15/75	0.077		30	285	19.32
Strobe SW	15/75	0.077		105	390	19.06
Strobe SW	15/75	0.077		85	475	18.89
Strobe SW	15/75	0.077		50	525	18.82
Strobe SW	15/75	0.077		70	595	18.79
Strobe SW	15/75	0.077		50	645	18.71
Total current/amps 0.770		Total Dist: 645		voltage drop		1.6



Circuit Information

Panel Name: Street Level
 Circuit Name: NORTH
 Starting Voltage: Starting Voltage = 20.4

(3) amp circuit
 Class B @ 14 AWG
 DC 24 - volt Supply

Type and Model	Candela	Current	Tone and Volume	Dist from last device (ft)	Dist from source (ft)	14
Strobe SW	30	0.094		10	10	20.33
Strobe SW	30	0.094		20	30	20.21
Strobe SW	75	0.158		35	65	20.03
Strobe SW	75	0.158		50	115	19.81
Strobe SW	110	0.202		110	225	19.45
Strobe SW	75	0.158		20	245	19.41
Strobe SW	75	0.158		50	295	19.36
Total current/amps 1.022		Total Dist:295		voltage drop		1.0



Circuit Information

Panel Name: Street Level
 Circuit Name: SOUTH
 Starting Voltage: Starting Voltage = 20.4

(3) amp circuit
 Class B @ 14 AWG
 DC 24 - volt Supply

Type and Model	Candela	Current (Amps)	Tone and Volume	Dist from last	Dist from source	14
Strobe SW	110	0.202		70	70	19.77
Strobe SW	75	0.158		70	140	19.24
Strobe SW	75	0.158		50	190	18.91
Strobe SW	110	0.202		80	270	18.46
Strobe SW	75	0.158		90	360	18.07
Strobe SW	75	0.158		60	420	17.87
Strobe SW	75	0.158		50	470	17.76
Strobe SW	110	0.202		70	540	17.67
Total current/amps 1.396		Total Dist: 540		voltage drop		2.7



Circuit Information

Panel Name: 2nd Floor
 Circuit Name: 2nd North
 Starting Voltage: Starting Voltage = 20.4
 (3) amp circuit
 Class B @ 14 AWG
 DC 24 - volt Supply

Type and Model	Candela	Current (Amps)	Tone and Volume	Dist from last	Dist from source	14
Strobe SW	75	0.158		30	30	20.25
Strobe SW	15	0.066		40	70	20.08
Strobe SW	110	0.202		80	150	19.80
Strobe SCW	75	0.158		90	240	19.55
Strobe SW	110	0.202		50	290	19.51
Total current/amps 0.786		Total Dist:290		voltage drop		0.8



Circuit Information

Panel Name: 2nd Floor
 Circuit Name: 2nd South
 Starting Voltage: Starting Voltage = 20.4

(3) amp circuit
 Class B @ 14 AWG
 DC 24 - volt Supply

Type and Model	Candela	Current (Amps)	Tone and Volume	Dist from last	Dist from source	14
Strobe SW	110	0.202		85	85	19.97
Strobe SW	110	0.202		100	185	19.48
Strobe SCW	30	0.094		50	235	19.33
Strobe SCW	95	0.181		50	285	19.23
Strobe SW	110	0.202		60	345	19.11
Total current/amps 0.881		Total Dist:345		voltage drop		1.2



Circuit Information

Panel Name: 3rd Floor
 Circuit Name: 3rd North
 Starting Voltage: Starting Voltage = 20.4
 (3) amp circuit
 Class B @ 14 AWG
 DC 24 - volt Supply

Type and Model	Candela	Current (Amps)	Tone and Volume	Dist from last	Dist from source	14
Strobe SW	30	0.094		25	25	20.20
Strobe SCW	95	0.181		45	70	19.86
Strobe SW	110	0.202		40	110	19.61
Strobe SW	30	0.094		45	155	19.39
Strobe SW	30	0.094		55	210	19.15
Strobe SW	110	0.202		75	285	18.86
Strobe SW	30	0.094		110	395	18.59
Strobe SW	110	0.202		30	425	18.51
Strobe SW	30	0.094		30	455	18.51
Total current/amps 1.257		Total Dist:455		voltage drop		1.8



Circuit Information

Panel Name: 3rd Floor
 Circuit Name: 3rd South
 Starting Voltage: Starting Voltage = 20.4

(3) amp circuit
 Class B @ 14 AWG
 DC 24 - volt Supply

Type and Model	Candela	Current (Amps)	Tone and Volume	Dist from last	Dist from source	14
Strobe SCW	15	0.066		45	45	20.08
Strobe SCW	15	0.066		25	70	19.92
Strobe SCW	15	0.066		25	95	19.77
Strobe SCW	30	0.094		30	125	19.59
Strobe SCW	30	0.094		45	170	19.36
Strobe SW	110	0.202		40	210	19.18
Strobe SW	30	0.094		40	250	19.06
Strobe SW	75	0.158		90	340	18.82
Strobe SW	30	0.094		40	380	18.76
Strobe SW	75	0.158		30	410	18.73
Total current/amps 1.092		Total Dist:410		voltage drop		1.6



by Honeywell

GFPS-9

Description

The Gamewell-FCI Power Supply 9 (GFPS-9) panel provides two (2) Class A, Style Z, or four (4) Class B, Style Y notification appliance circuits. Each circuit is rated at 3 amperes, with a total capacity of 9 amperes per panel. These circuits may be programmed to activate by groups or various combinations by connection to one (1) or two (2) existing Class A or B notification appliance circuits with operating voltages ranging from 9 to 30 VDC. Either non-coded or coded operation is possible. In addition, the GFPS-9 can provide a temporal pattern output from a non-coded input.

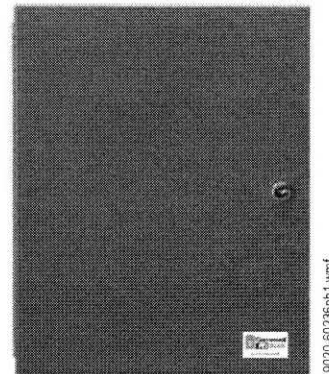
A unique feature allows for programmable synchronized outputs for strobes by three (3) different major manufacturers, System Sensor, Faraday, or Gentex.

The GFPS-9 contains its own battery charger capable of maintaining batteries of up to 33 AH. The cabinet provides space for a set of 7 A/H batteries. It is supervised for ground fault, over-current, open circuits and low battery conditions. These conditions light the appropriate trouble LED and automatically open the notification appliance circuit used for activation, transmitting a trouble signal to the main fire alarm control panel. The ground fault detection circuit may be disabled.

The unit contains a set of dry, Form "C" trouble actuated auxiliary contacts, rated 2.5 amp. @ 24 VDC (resistive). Transfer of these contacts for AC power failure is programmable and can be delayed for a period of six (6) hours. This delay feature may be disabled.

A power limited, non-resettable auxiliary power output up to three (3) amperes is also available. The panel can be programmed via DIP switch to disconnect this output from the batteries 30 seconds after AC power failure, in order to avoid running down the batteries from current devices such as door holders, etc.

Gamewell-FCI Power Supply 9



GFPS-9

Features

- UL Listed as a fire alarm accessory for use with any Gamewell-FCI or other UL Listed fire alarm controls.
- Two (2) Class A (Style Z), or four (4) Class B (Style Y) notification appliance circuits.
- Programmable temporal pattern output including ANSI S3.41.
- High current 9 amp. total output.
- Integral strobe synchronization feature for strobes by three (3) manufacturers.
- Integral ground fault detection.
- Form "C" trouble contacts with delayed AC failure indication.

An ISO 9000-2000 Company



GAMEWELL-FCI

12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

Specifications are for information only, are not intended for installation purposes, and are subject to change without notice. No responsibility is assumed by Gamewell-FCI for their use.

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www.gamewell-fci.com

9020-60236 Rev. A page 1 of 2

Specifications

Operating Power: 120 VAC, 3.6 amp. 60 Hz
Standby Battery
Circuit: 24 VDC (nominal) 7 ampere/
hours, max.
Supervisory Current: 0.075 amp.
Alarm Current: 0.175 amp.
(excluding notification appliances)
Alarm Output: 9.0 amp. max. @ 24 VDC
(nominal)
Dimensions: 16" H x 12.25" W x 3" D
(40.64 x 30.88 x 7.62 cm)
Operating
Temperature: 32° to 120° F (0° to 49° C)
Relative Humidity: 10 to 85% @ 86° F
(non-condensing)

Ordering Information

Model	Description
GFPS-9	Gamewell-FCI Power Supply-9

GAMEWELL-FCI

12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118
9020-60236 Rev. A page 2 of 2 www.gamewell-fci.com



Indoor Selectable Output Speaker Strobes and Dual Voltage Evacuation Speakers

The new SpectrAlert® Advance selectable output speaker strobes and dual evacuation speakers can reduce ground faults and allow faster installation.



SPECTRAlert
ADVANCE
from System Sensor

Features

- Plug-in design
- Protective cover isolates speaker components, reduces ground faults
- Electrical compatibility with existing SpectrAlert products
- Field selectable candela settings on wall and ceiling units:
Standard: 15, 15/75, 30, 75, 95, 110, 115
High: 135, 150, 177, 185
- Shorting spring on mounting plate tests continuity before installation
- Rotary switch simplifies field selection of speaker voltage (25 and 70.7 Vrms) and power settings (¼, ½, 1 and 2 watts)
- Universal mounting plate for wall- and ceiling-mount units
- Compatible with System Sensor synchronization protocol
- SP speakers offer high fidelity sound output
- SPV speakers offer high volume sound output
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- No extension ring required
- Ceiling and wall mount application
- Optional tamper resistant Torx head screw included

Agency Listings



The SpectrAlert Advance Series of speakers and speaker strobes is designed to reduce ground faults. The plug-in design allows the installer to pre-wire mounting plates and dress the wires before plugging in the speakers. The plastic cover prevents nicked wires by covering exposed speaker components.

This design also allows faster installations with instant feedback to ensure that wiring is properly connected, rotary switches to select voltage and power settings, and 11 field selectable candela settings for wall and ceiling speaker strobes.

The low total harmonic distortion of the SP speaker offers high fidelity sound output while the SPV speaker offers high volume sound output for use in high ambient noise applications.

SpectrAlert Advance makes installation easy

- Attach a universal mounting plate to a 4 x 4 x 2 1/8 inch back box. Flush mount applications are achievable without the need for an extension ring.
- Connect the notification appliance circuit or speaker wiring to the terminals on the mounting plate.
- Attach the speaker or speaker strobe to the mounting plate by inserting the product tabs into the mounting plate grooves. Rotate the device into position to lock the product pins into the mounting plate terminals. The device will temporarily hold in place with a catch until it is secured with a captured mounting screw.

SpectrAlert Advance Speaker and Speaker Strobe Specifications

Architectural/Engineering Specifications

General

SpectrAlert Advance speaker and speaker strobes shall mount to a 4 x 4 x 2 1/8-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit and amplifier wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance speaker strobes, when used with the Sync-Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync-Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between nine and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32°F and 120°F from a regulated DC, or full-wave rectified, unfiltered power supply. Speaker strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.

Speaker

The speaker shall be a System Sensor SpectrAlert Advance model _____ dual-voltage transformer speaker capable of operating at 25.0 or 70.7 nominal Vrms. It should be listed to UL 1480 and shall be approved for fire protective service. The speaker shall have a frequency range of 400 to 4000 Hz and shall have an operating temperature between 32°F and 120°F. Speaker shall have power taps and voltage that are selected by rotary switches.

Speaker Strobe combination

The speaker strobe shall be a System Sensor SpectrAlert Advance model _____ listed to UL 1480 and UL 1971 and be approved for fire protective signaling systems. Speaker shall be capable of operating at 25.0 or 70.7 nominal Vrms selected via rotary switch, and shall have a frequency range of 400 to 4000 Hz. Speaker shall have power taps which are selected by rotary switch. The strobe shall comply with the NFPA72 requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Synchronization Module

The module shall be a System Sensor Sync-Circuit model MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1Hz. The module shall mount to a 4 1/16 x 4 1/16 x 2 1/8-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical Specifications

Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Dimensions, Wall-Mount	
SPS Speaker Strobe	6.0 in L x 5.0 in W x 4.7 in D (including lens and speaker)
SPSV Speaker Strobe	6.0 in L x 5.0 in W x 4.9 in D (including lens and speaker)
SP Speaker	6.0 in L x 5.0 in W x 2.8 in D
SPSV Speaker	6.0 in L x 5.0 in W x 2.9 in D
Dimensions, Ceiling-Mount	
SPS Speaker Strobe	6.8 in Dia. x 4.7 in D (including lens and speaker)
SPSV Speaker Strobe	6.8 in Dia. x 4.8 in D (including lens and speaker)
SP Speaker	6.8 in Dia. x 2.8 in D
SPV Speaker	6.8 in Dia. x 2.9 in D

Electrical/Operating Specifications

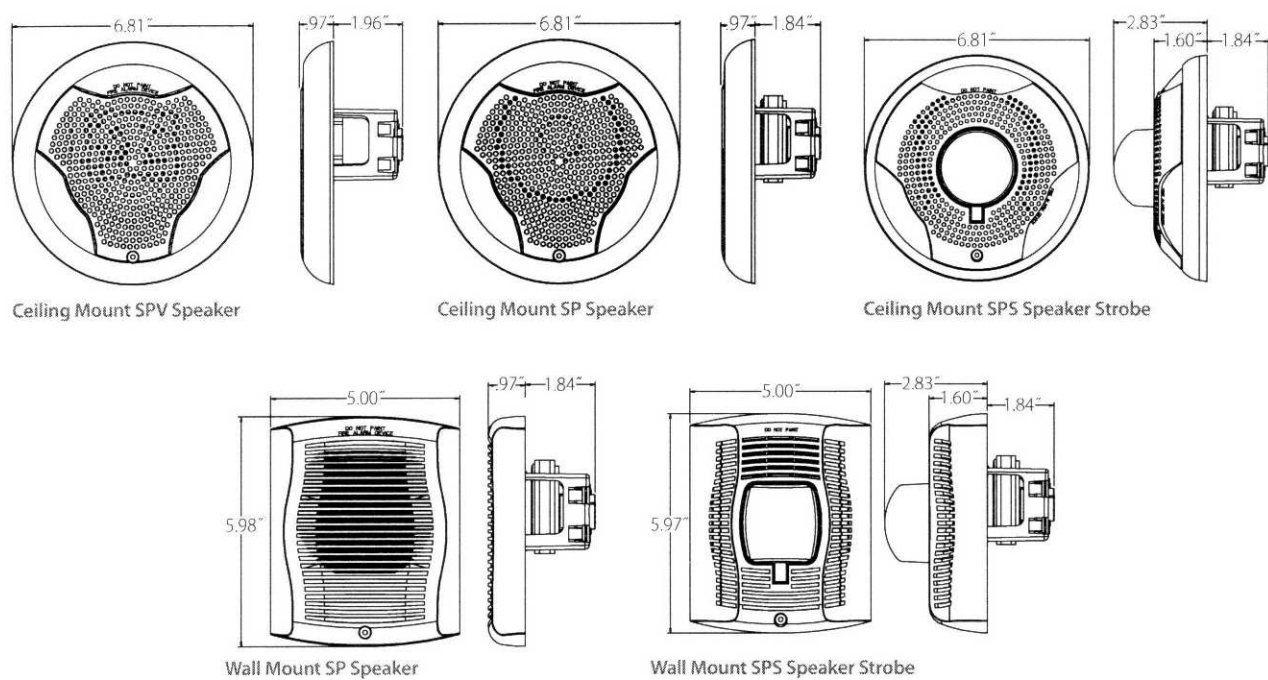
Nominal Voltage (speakers)	25 Volts or 70.7 Volts (nominal)
Maximum Supervisory Voltage (speakers)	50 VDC
Strobe Flash Rate	1 flash per second
Nominal Voltage (strobes)	Regulated 12 VDC/FWR or regulated 24 DC/FWR
Operating Voltage Range (includes fire alarm panels with built in sync)	8 to 17.5 V (12 V nominal) or 16 to 33V (24 V nominal)
Operating Voltage with MDL Sync Module	9 to 17.5 V (12 V nominal) or 17 to 33V (24 V nominal)
Frequency Range	400 to 4000 Hz
Power	¼, ½, 1, 2 watts

UL Current Draw Data

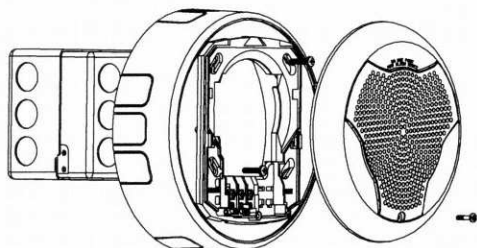
UL Max. Strobe Current Draw (mA RMS)					
	Candela	8 to 17.5 Volts		16 to 33 Volts	
		DC	FWR	DC	FWR
Standard Candela Range	15	123	128	66	71
	15/75	142	148	77	81
	30	NA	NA	94	96
	75	NA	NA	158	153
	95	NA	NA	181	176
	110	NA	NA	202	195
	115	NA	NA	210	205
High Candela Range	135	NA	NA	228	207
	150	NA	NA	246	220
	177	NA	NA	281	251
	185	NA	NA	286	258

Sound Output				
UL Reverberant (dBA @ 10 ft.)	2W	1W	½ W	¼ W
Wall-Mount SP Series	86	83	80	77
Wall-Mount SPV Series	90	87	84	81
Ceiling-Mount SPC Series	86	83	80	77
Ceiling-Mount SPCV Series	90	87	84	81
Wall-Mount SPS Series	85	82	79	76
Wall-Mount SPSV Series	89	86	83	80
Ceiling-Mount SPSC Series	85	82	79	76
Ceiling-Mount SPSCV Series	89	86	83	80

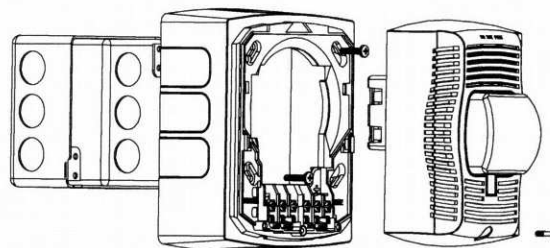
Dimensions



Surface Mounting



Ceiling Mount Speaker with SPBBSCW Back Box Skirt



Wall Mount Speaker Strobe with SPBBS Back Box Skirt

Ordering Information for SpectrAlert® Advance Speakers and Speaker Strobes

Wall Mount		
White	Red	Description
SPW	SPR	Speaker only
SPWV	SPRV	Speaker only, High dB
SPSW*	SPSR*	Speaker Strobe, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115)
SPSWH*	SPSRH*	Speaker Strobe, Selectable Candela, High cd (135, 150, 177, 185)
SPSWV*	SPSRV*	Speaker Strobe, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), High dB
Ceiling Mount		
White	Red	Description
SPCW	SPCR	Speaker only
SPCWV	SPCRV	Speaker only, High dB
SPSCW*	SPSCR	Speaker Strobe, Selectable Candela (15, 15/75, 30, 50, 75, 95, 110, 115)
SPSCWH*	SPSCRH	Speaker Strobe, Selectable Candela, High cd (135, 150, 177, 185)
SPSCWV*	SPSCRV	Speaker Strobe, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), High dB
SPSCWVH*	SPSCR VH	Speaker Strobe, Selectable Candela, High dB, High cd (135, 150, 177, 185)
Accessories		
White	Red	Description
RFPW	RFP	7 in x 9.5 in Retrofit Plate
SPBBSCW	SPBBSC	Ceiling Mount Back Box Skirt
SPBBSW	SPBBS	Wall Mount Back Box Skirt
TRW	TR	Wall Mount Trim Ring
TRCW	TRC	Ceiling Mount Trim Ring

* Add -P to model number for plain housing (no "FIRE" marking on the cover) e.g. SPSW-P



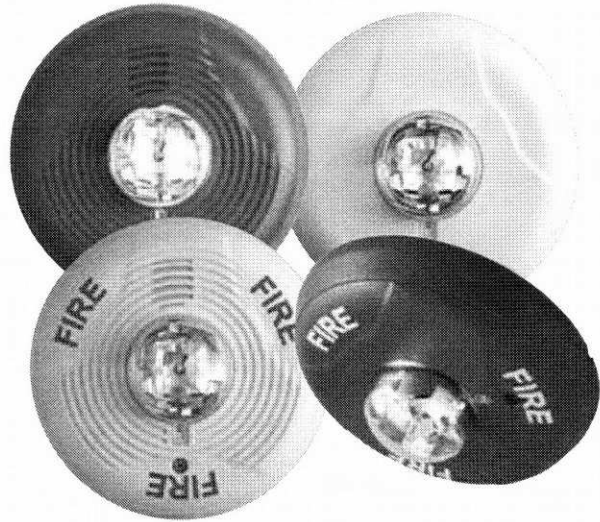
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A05-0424-002 • 5/08 • #1986



Indoor Selectable-Output Strobes and Horn Strobes for Ceiling Applications

SpectrAlert® Advance audible visible notification products are rich with features guaranteed to cut installation times and maximize profits.



SPECTRAlert
ADVANCE
from System Sensor

Features

- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Field-selectable candela settings on ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and three volume selections
- Universal mounting plate for ceiling units
- Mounting plate shorting spring checks wiring continuity before device installation
- Electrically Compatible with legacy SpectrAlert devices
- Compatible with MDL sync module

The SpectrAlert Advance series offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry. With white and red plastic housings, wall and ceiling mounting options, and plain and FIRE-printed devices, SpectrAlert Advance can meet virtually any application requirement.

Like the entire SpectrAlert Advance product line, ceiling-mount strobes and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature plug-in designs with minimal intrusion into the back box, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults.

To further simplify installation and protect devices from construction damage, SpectrAlert Advance utilizes a universal mounting plate with an onboard shorting spring, so installers can test wiring continuity before the device is installed.

Installers can also easily adapt devices to suit a wide range of application requirements using field-selectable candela settings, automatic selection of 12- or 24-volt operation, and a rotary switch for horn tones with three volume selections.

Agency Listings



S4011 (chimes, horn strobes, horns)
S5512 (strobes)



MEA
approved

MEA452-05-E



7125-1653-186 (indoor strobes)
7125-1653-188 (horn strobes,
chime strobes)
7135-1653-189 (horns, chimes)

SpectrAlert Advance Specifications

Architect/Engineer Specifications

General

SpectrAlert Advance strobes and horn strobes shall mount to a standard 4 x 4 x 1½-inch back box, 4-inch octagon back box, or double-gang back box. Two-wire products shall also mount to a single-gang 2 x 4 x 1½-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync-Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync-Circuit Module, 12-volt-rated notification appliance circuit outputs shall operate between 9 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes and horn strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Horn Strobe Combination

The horn strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a temporal three pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn on horn strobe models shall operate on a coded or non-coded power supply.

Synchronization Module

The module shall be a System Sensor Sync-Circuit model MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn strobe models over a single pair of wires. The module shall mount to a 4½ x 4½ x 2½-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical/Electrical Specifications

Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12 DC/FWR or regulated 24 DC/FWR ¹
Operating Voltage Range ²	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Input Terminal Wire Gauge	12 to 18 AWG
Ceiling-Mount Dimensions (including lens)	6.8" diameter x 2.5" high (173 mm diameter x 64 mm high)
Ceiling-Mount Back Box Skirt Dimensions (BBSC-2, BBSCW-2)	7.1" diameter x 2.2" high (180 mm diameter x 57 mm high)
Ceiling-Mount Trim Ring Dimensions (sold as a 5 pack) (TRC-HS, TRCW-HS)	6.9" diameter x 0.35" high (175 mm diameter x 9 mm high)

Notes:

1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.
2. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 15/75 cd.

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)

	Candela	8–17.5 Volts		16–33 Volts	
		DC	FWR	DC	FWR
Standard Candela Range	15	123	128	66	71
	15/75	142	148	77	81
	30	NA	NA	94	96
	75	NA	NA	158	153
	95	NA	NA	181	176
	110	NA	NA	202	195
	115	NA	NA	210	205
High Candela Range	135	NA	NA	228	207
	150	NA	NA	246	220
	177	NA	NA	281	251
	185	NA	NA	286	258

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, Standard Candela Range (15–115 cd)

	8–17.5 Volts		16–33 Volts						
	15	15/75	15	15/75					
DC Input	13/	14/	/9	90	107	176	194	212	218
Temporal High	132	144	69	80	97	157	182	201	210
Temporal Medium	132	143	66	77	93	154	179	198	207
Temporal Low	141	152	91	100	116	176	201	221	229
Non-Temporal High	133	145	75	85	102	163	187	207	216
Non-Temporal Medium	131	144	68	79	96	156	182	201	210
Non-Temporal Low									
FWR Input									
Temporal High	136	155	88	97	112	168	190	210	218
Temporal Medium	129	152	78	88	103	160	184	202	206
Temporal Low	129	151	76	86	101	160	184	194	201
Non-Temporal High	142	161	103	112	126	181	203	221	229
Non-Temporal Medium	134	155	85	95	110	166	189	208	216
Non-Temporal Low	132	154	80	90	105	161	184	202	211

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, High Candela Range (135–185 cd)

	16–33 Volts					16–33 Volts			
	135	150	177	185		135	150	177	185
DC Input					FWR Input				
Temporal High	245	259	290	297	Temporal High	215	231	258	265
Temporal Medium	235	253	288	297	Temporal Medium	209	224	250	258
Temporal Low	232	251	282	292	Temporal Low	207	221	248	256
Non-Temporal High	255	270	303	309	Non-Temporal High	233	248	275	281
Non-Temporal Medium	242	259	293	299	Non-Temporal Medium	219	232	262	267
Non-Temporal Low	238	254	291	295	Non-Temporal Low	214	229	256	262

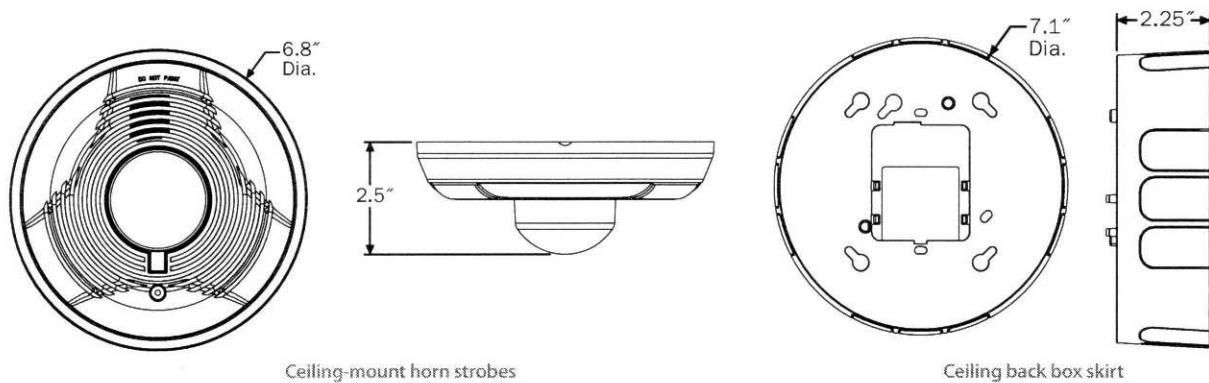
Horn Strobe Tones and Sound Output Data

Horn Strobe Output (dBA)

Switch Position	Sound Pattern	dB	8–17.5 Volts		16–33 Volts		24-Volt Nominal			
			DC	FWR	DC	FWR	Reverberant		Anechoic	
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	74	74	80	80	86	86	96	96
3	Temporal	Low	71	73	76	76	83	80	94	89
4	Non-Temporal	High	82	82	88	88	93	92	100	100
5	Non-Temporal	Medium	78	78	85	85	90	90	98	98
6	Non-Temporal	Low	75	75	81	81	88	84	96	92
7†	Coded	High	82	82	88	88	93	92	101	101
8†	Coded	Medium	78	78	85	85	90	90	97	98
9†	Coded	Low	75	75	81	81	88	85	96	92

†Settings 7, 8, and 9 are not available on 2-wire horn strobes.

SpectrAlert Advance Dimensions



SpectrAlert Advance Ordering Information

Model	Description
Ceiling Horn Strobes	
PC2R*	2-Wire Horn Strobe, Standard cd, Red
PC2RH	2-Wire Horn Strobe, High cd, Red
PC2W*†	2-Wire Horn Strobe, Standard cd, White
PC2WH*	2-Wire Horn Strobe, High cd, White
PC4R	4-Wire Horn Strobe, Standard cd, Red
PC4RH	4-Wire Horn Strobe, High cd, Red
PC4W	4-Wire Horn Strobe, Standard cd, White

Model	Description
Ceiling Strobes	
SCR	Strobe, Standard cd, Red
SCRH	Strobe, High cd, Red
SCW*	Strobe, Standard cd, White
SCWH	Strobe, High cd, White
Accessories	
BBSC-2	Back Box Skirt, Ceiling, Red
BBSCW-2	Back Box Skirt, Ceiling, White
TRC-HS	Trim Ring, Ceiling, Red
TRCW-HS	Trim Ring, Ceiling, White

Notes:

* Add "-P" to model number for plain housing (no "FIRE" marking on cover), e.g., P2R-P.

† Add "-SP" to model number for "FUEGO" marking on cover, e.g., P2R-SP.

‡ "Standard cd" refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. "High cd" refers to strobes that include 135, 150, 177, and 185 candela settings.



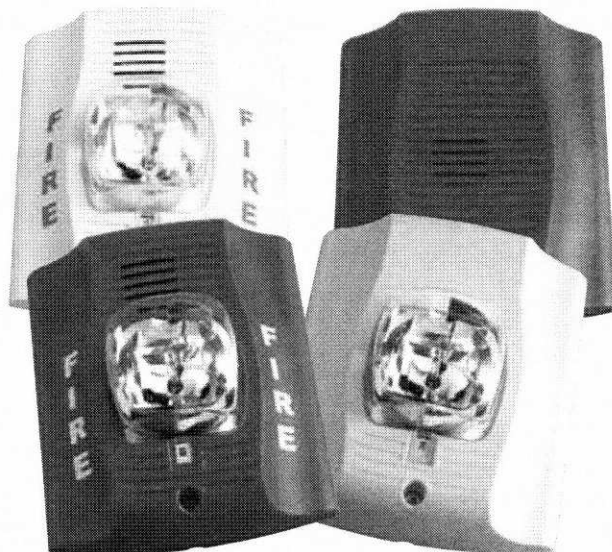
3825 Ohio Avenue • St. Charles, IL 60174
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AVD500500 • 6/11 • #2806



Indoor Selectable-Output Horns, Strobes, and Horn Strobes for Wall Applications

SpectrAlert® Advance audible visible notification products are rich with features guaranteed to cut installation times and maximize profits.



SPECTRAlert
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from System Sensor

Features

- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Field-selectable candela settings on wall units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and three volume selections
- Universal mounting plate for wall units
- Mounting plate shorting spring checks wiring continuity before device installation
- Electrically Compatible with legacy SpectrAlert devices
- Compatible with MDL sync module

The SpectrAlert Advance series offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry. With white and red plastic housings, wall and ceiling mounting options, and plain and FIRE-printed devices, SpectrAlert Advance can meet virtually any application requirement.

Like the entire SpectrAlert Advance product line, wall-mount horns, strobes, and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature plug-in designs with minimal intrusion into the back box, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults.

To further simplify installation and protect devices from construction damage, SpectrAlert Advance utilizes a universal mounting plate with an onboard shorting spring, so installers can test wiring continuity before the device is installed.

Installers can also easily adapt devices to suit a wide range of application requirements using field-selectable candela settings, automatic selection of 12- or 24-volt operation, and a rotary switch for horn tones with three volume selections.

Agency Listings



7125-1653-186 (indoor strobes)
7125-1653-188 (horn strobes,
chime strobes)
7135-1653-187 (horns, chimes)

SpectrAlert Advance Specifications

Architect/Engineer Specifications

General

SpectrAlert Advance horns, strobes, and horn strobes shall mount to a standard 4 × 4 × 1½-inch back box, 4-inch octagon back box, or double-gang back box. Two-wire products shall also mount to a single-gang 2 × 4 × 1½-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync-Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync-Circuit Module, 12-volt-rated notification appliance circuit outputs shall operate between 9 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes and horn strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Horn Strobe Combination

The horn strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a temporal three pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn on horn strobe models shall operate on a coded or non-coded power supply.

Synchronization Module

The module shall be a System Sensor Sync-Circuit model MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn strobe models over a single pair of wires. The module shall mount to a 4½/16 × 4½/16 × 2½/8-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical/Electrical Specifications

Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12 DC/FWR or regulated 24 DC/FWR ¹
Operating Voltage Range ²	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Input Terminal Wire Gauge	12 to 18 AWG
Wall-Mount Dimensions (including lens)	5.6" L × 4.7" W × 2.5" D (142 mm L × 119 mm W × 64 mm D)
Horn Dimensions	5.6" L × 4.7" W × 1.3" D (142 mm L × 119 mm W × 33 mm D)
Wall-Mount Back Box Skirt Dimensions (BBS-2, BBSW-2)	5.9" L × 5.0" W × 2.2" D (151 mm L × 128 mm W × 56 mm D)
Wall-Mount Trim Ring Dimensions (sold as a 5 pack) (TR-HS, TRW-HS)	5.7" L × 4.8" W × 0.35" D (145 mm L × 122 mm W × 9 mm D)

Notes:

1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.
2. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 15/75 cd.

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)						UL Max. Horn Current Draw (mA RMS)					
	Candela	8–17.5 Volts		16–33 Volts		Sound Pattern	dB	8–17.5 Volts		16–33 Volts	
		DC	FWR	DC	FWR			DC	FWR	DC	FWR
Standard Candela Range	15	123	128	66	71	Temporal	High	57	55	69	75
	15/75	142	148	77	81	Temporal	Medium	44	49	58	69
	30	NA	NA	94	96	Temporal	Low	38	44	44	48
	75	NA	NA	158	153	Non-temporal	High	57	56	69	75
	95	NA	NA	181	176	Non-temporal	Medium	42	50	60	69
	110	NA	NA	202	195	Non-temporal	Low	41	44	50	50
High Candela Range	115	NA	NA	210	205	Coded	High	57	55	69	75
	135	NA	NA	228	207	Coded	Medium	44	51	56	69
	150	NA	NA	246	220	Coded	Low	40	46	52	50
	177	NA	NA	281	251						
	185	NA	NA	286	258						

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, Standard Candela Range (15–115 cd)										
DC Input	8–17.5 Volts		16–33 Volts		30	75	95	110	115	
	15	15/75	15	15/75						
Temporal High	137	147	79	90	107	176	194	212	218	
Temporal Medium	132	144	69	80	97	157	182	201	210	
Temporal Low	132	143	66	77	93	154	179	198	207	
Non-Temporal High	141	152	91	100	116	176	201	221	229	
Non-Temporal Medium	133	145	75	85	102	163	187	207	216	
Non-Temporal Low	131	144	68	79	96	156	182	201	210	
FWR Input										
Temporal High	136	155	88	97	112	168	190	210	218	
Temporal Medium	129	152	78	88	103	160	184	202	206	
Temporal Low	129	151	76	86	101	160	184	194	201	
Non-Temporal High	142	161	103	112	126	181	203	221	229	
Non-Temporal Medium	134	155	85	95	110	166	189	208	216	
Non-Temporal Low	132	154	80	90	105	161	184	202	211	

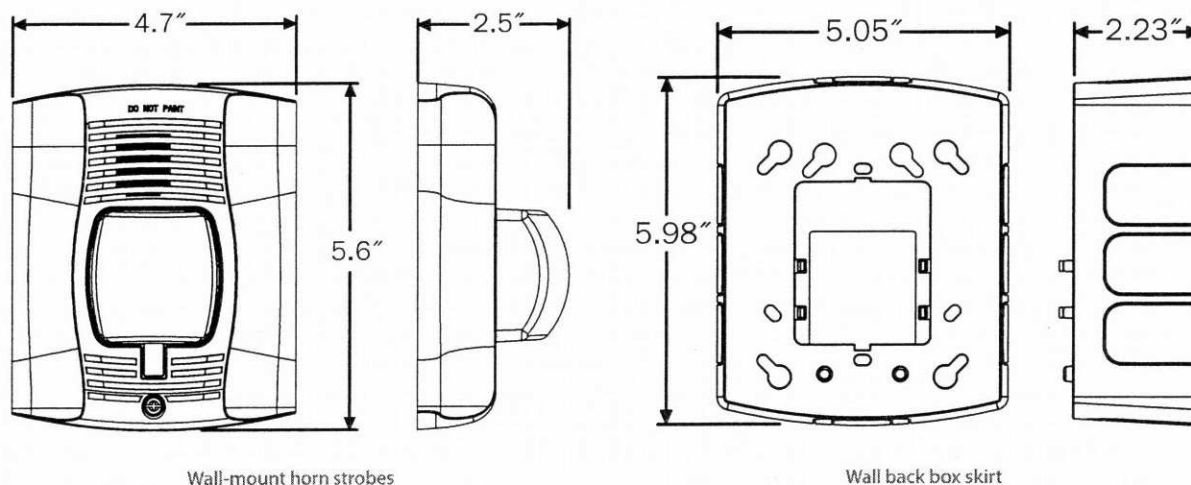
UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, High Candela Range (135–185 cd)										
DC Input	16–33 Volts				FWR Input	16–33 Volts				
	135	150	177	185		135	150	177	185	
Temporal High	245	259	290	297	Temporal High	215	231	258	265	
Temporal Medium	235	253	288	297	Temporal Medium	209	224	250	258	
Temporal Low	232	251	282	292	Temporal Low	207	221	248	256	
Non-Temporal High	255	270	303	309	Non-Temporal High	233	248	275	281	
Non-Temporal Medium	242	259	293	299	Non-Temporal Medium	219	232	262	267	
Non-Temporal Low	238	254	291	295	Non-Temporal Low	214	229	256	262	

Horn Tones and Sound Output Data

Horn and Horn Strobe Output (dBA)										
Switch Position	Sound Pattern	dB	8–17.5 Volts		16–33 Volts		24-Volt Nominal			
			DC	FWR	DC	FWR	Reverberant	DC	FWR	Anechoic
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	74	74	80	80	86	86	96	96
3	Temporal	Low	71	73	76	76	83	80	94	89
4	Non-Temporal	High	82	82	88	88	93	92	100	100
5	Non-Temporal	Medium	78	78	85	85	90	90	98	98
6	Non-Temporal	Low	75	75	81	81	88	84	96	92
7†	Coded	High	82	82	88	88	93	92	101	101
8†	Coded	Medium	78	78	85	85	90	90	97	98
9†	Coded	Low	75	75	81	81	88	85	96	92

†Settings 7, 8, and 9 are not available on 2-wire horn strobes.

SpectrAlert Advance Dimensions



SpectrAlert Advance Ordering Information

Model	Description
Wall Horn Strobes	
P2R*†	2-Wire Horn Strobe, Standard cd‡, Red
P2RH*	2-Wire Horn Strobe, High cd, Red
P2W*	2-Wire Horn Strobe, Standard cd, White
P2WH*	2-Wire Horn Strobe, High cd, White
P4R*	4-Wire Horn Strobe, Standard cd, Red
P4RH	4-Wire Horn Strobe, High cd, Red
P4W	4-Wire Horn Strobe, Standard cd, White
Wall Strobes	
SR*†	Strobe, Standard cd, Red
SRH*†	Strobe, High cd, Red
SW*	Strobe, Standard cd, White
SWH*	Strobe, High cd, White

Model	Description
Horns	
HR	Horn, Red
HW	Horn, White
Accessories	
BBS-2	Back Box Skirt, Wall, Red
BBSW-2	Back Box Skirt, Wall, White
TR-HS	Trim Ring, Wall, Red
TRW-HS	Trim Ring, Wall White

Notes:

* Add "-P" to model number for plain housing (no "FIRE" marking on cover), e.g., P2R-P.

† Add "-SP" to model number for "FUEGO" marking on cover, e.g., P2R-SP.

‡ "Standard cd" refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. "High cd" refers to strobes that include 135, 150, 177, and 185 candela settings.



3825 Ohio Avenue • St. Charles, IL 60174
Phone: 800-SENSOR2 • Fax: 630-377-6495

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AVDS00600 - 6/11 - #2807

General Notes

FIRE ALARM NOTES:

PROVIDE ADA STROBE
NOTIFICATION IN COMMON AREAS.

INSTALL NAC EXPANDER PANELS
AS SHOWN AND STROBES /
SPEAKER STROBES THROUGHOUT
ATRIUM AREA

EXISTING TENANT STROBES AND
SPEAKERS ARE TO REMAIN AS-IS

ADVANCED ALARM SYSTEMS INC

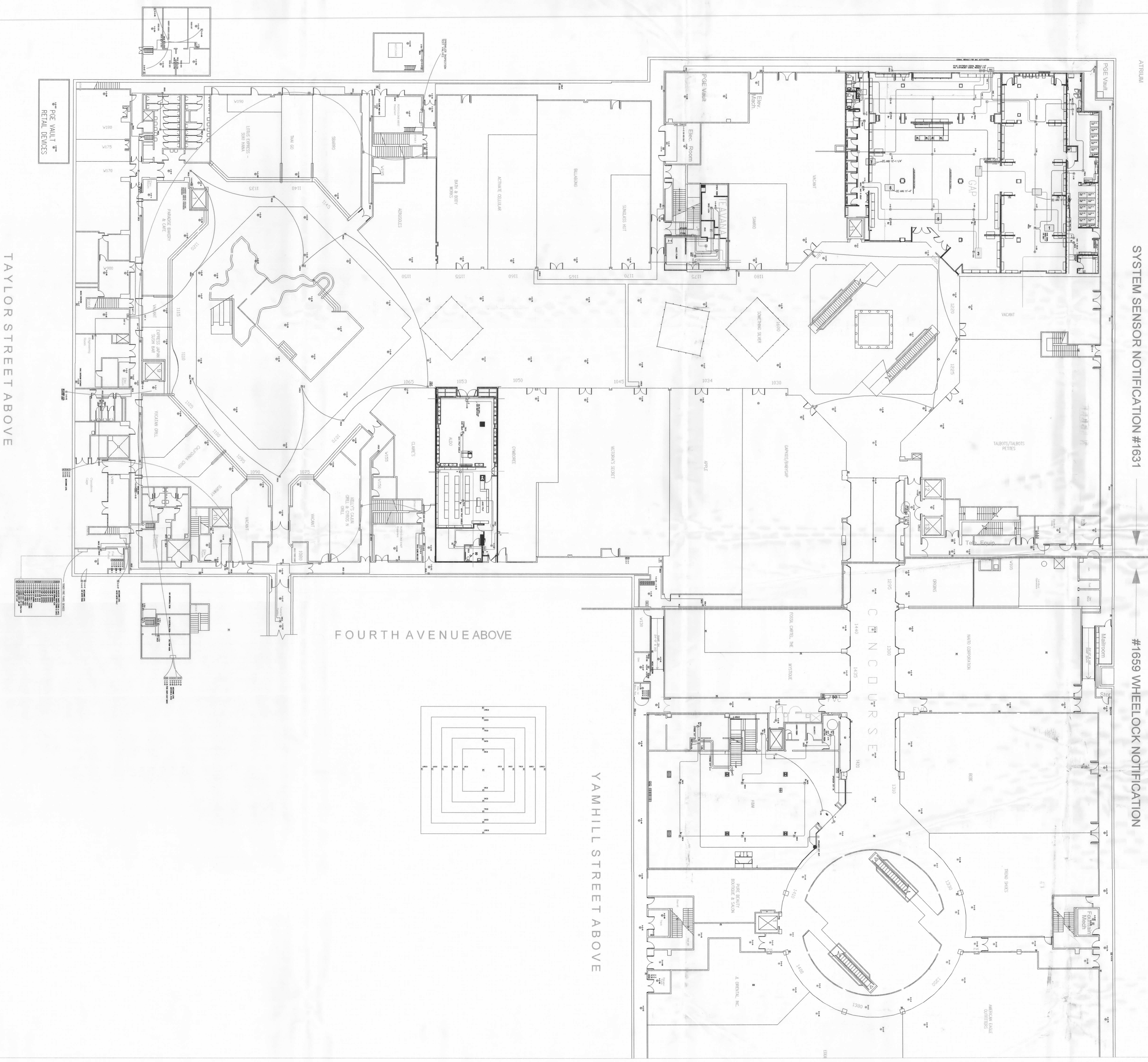
DESIGNED BY: *[Signature]*
SUPERVISING ELECTRICIAN:
LICENSE 3157-LEA NICET 104868 CCB 186615

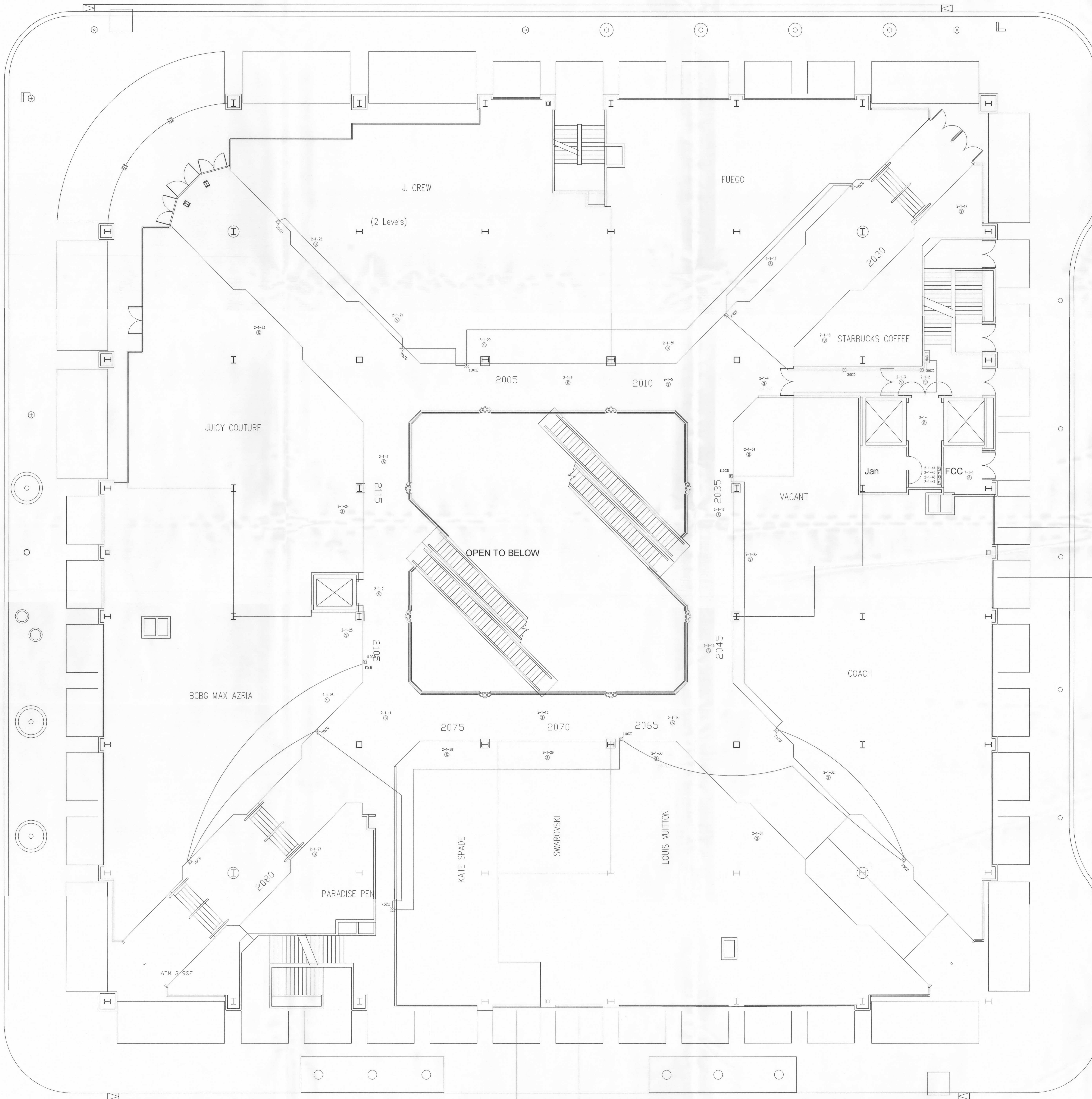
No.	Revision/Issue	Date

Firm Name and Address
ADVANCED ALARM SYSTEMS INC
1030 NW CORPORATE DRIVE
TROUTDALE OR 97060
SCOTT SULLIVAN
503-290-4091

Project Name and Address
PIONEER PLACE
777 SW 4TH AVE
PORTLAND OR 97024
CONCOURSE LEVEL

Project FIRE ALARM	Sheet FA1
Date 11/17/2011	
Scale 1/8" = 1'	





FIRE ALARM NOTES:

ATRIUM BUILDING

INSTALL NEW NAC
EXPANDER PANEL AND
STROBES THROUGHOUT
ATRIUM COMMON
AREAS.

EXISTING TENANT
SPACES ARE TO
REMAIN AS-IS

ADVANCED ALARM SYSTEMS INC

DESIGNED BY:
SUPERVISING ELECTRICIAN:
LICENSE 26-12490LE NICET 104868 CCB 164076

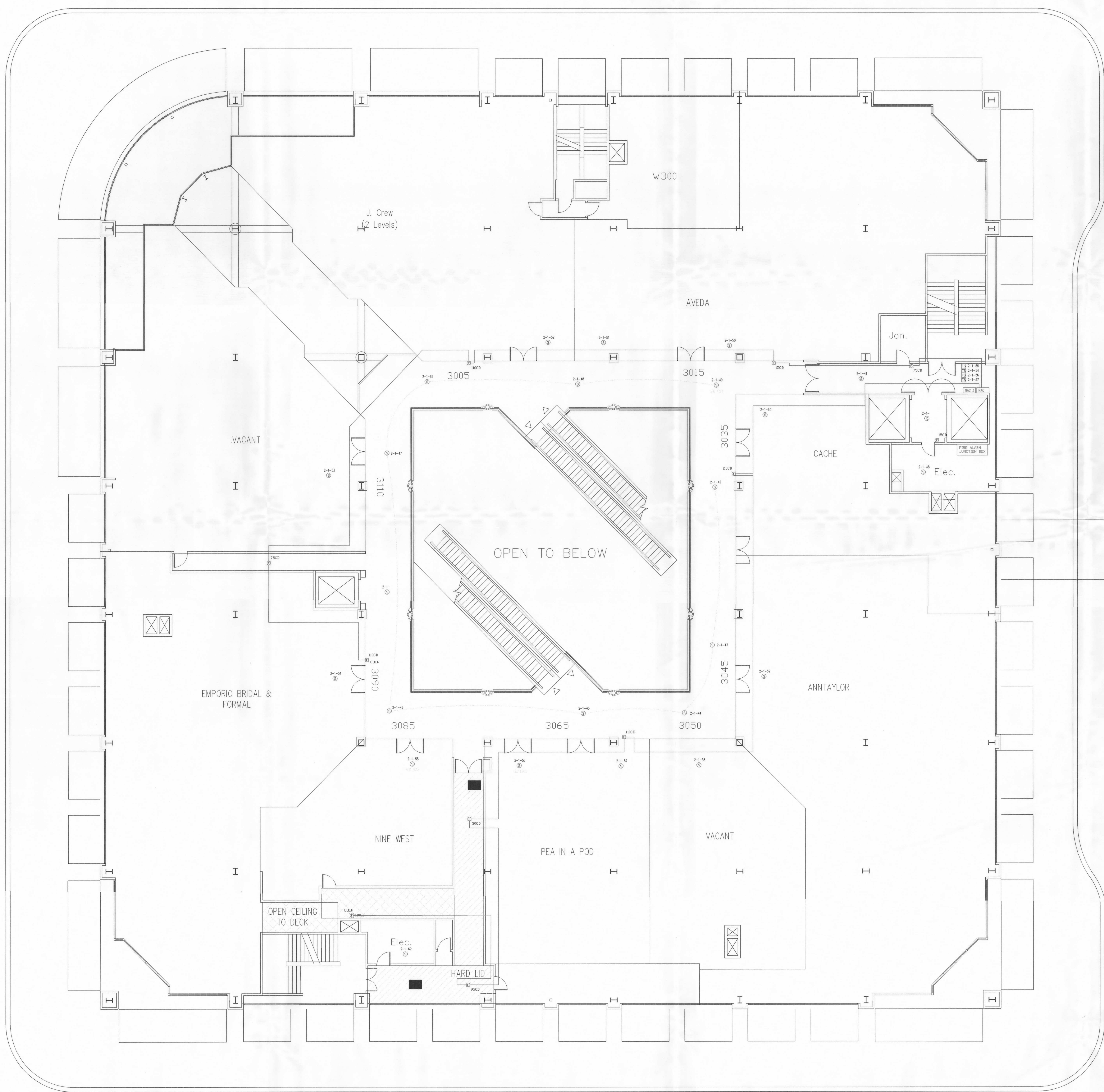
No.	Revision/Issue	Date

Firm Name and Address
ADVANCED ALARM SYSTEMS INC
PO BOX 1623
FAIRVIEW OR 97024
503-290-4091

Project Name and Address
PIONEER PLACE
777 SW 4TH AVE
PORTLAND OR 97204
STREET LEVEL FIRE ALARM

Project	Sheet
FIRE ALARM	FA-2
Date 11/17/2011	
Scale 1/8" = 1'	

END



FIRE ALARM NOTES:

ATRIUM BUILDING

INSTALL NEW NAC EXPANDER
PANEL AND STROBES
THROUGHOUT ATRIUM
COMMON AREAS.

EXISTING TENANT SPACES
ARE TO REMAIN AS-IS

ADVANCED ALARM SYSTEMS INC

DESIGNED BY:
SUPERVISING ELECTRICIAN:
LICENSE 26-1249CLE NICET 104868 CCB 164076

No.	Revision/Issue	Date

Firm Name and Address

ADVANCED ALARM SYSTEMS INC
PO BOX 1623
FAIRVIEW OR 97024
503-290-4091

Project Name and Address

PIONEER PLACE
777 SW 4TH AVE
PORTLAND OR 97204
2ND FIRE ALARM

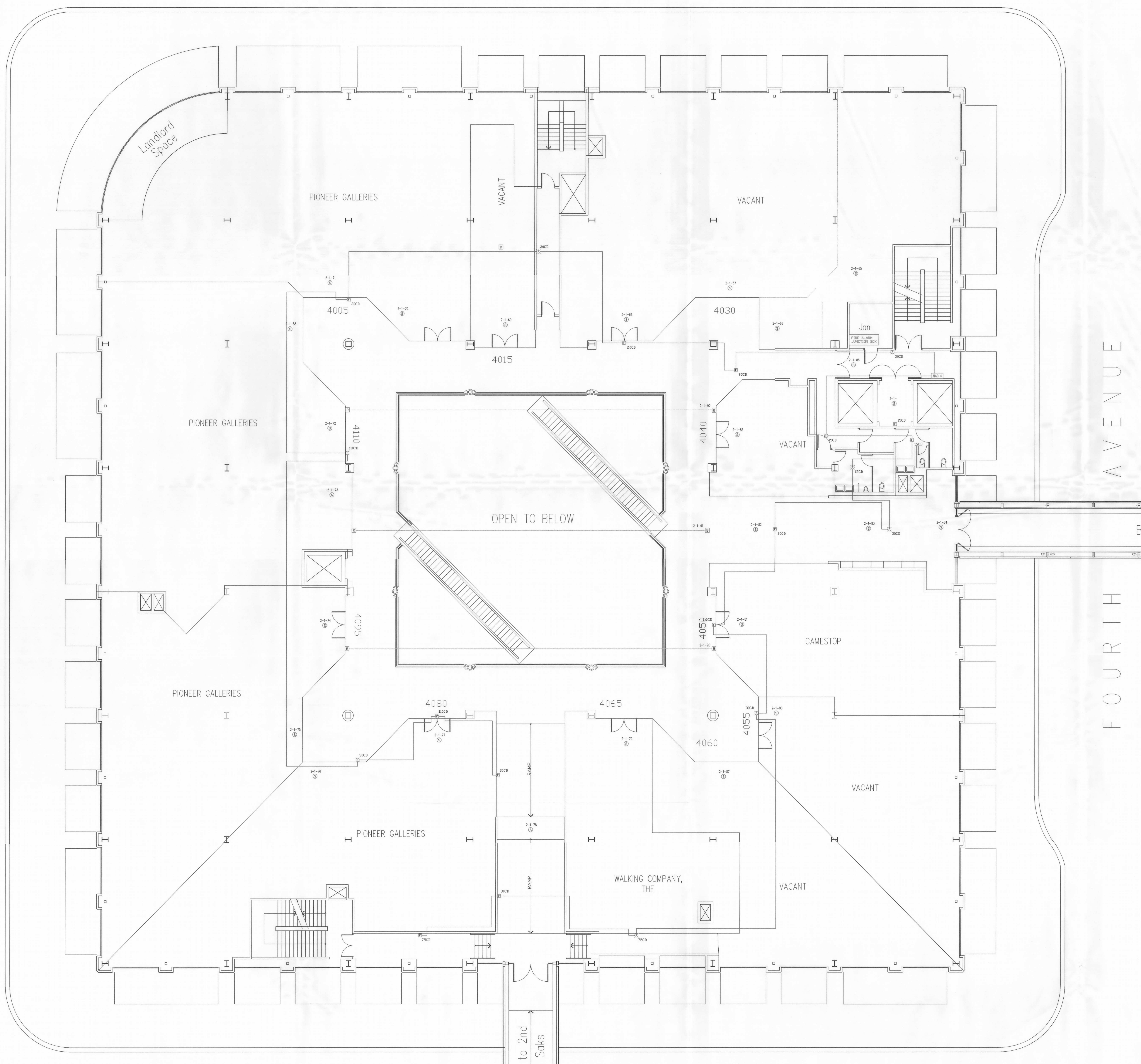
Project FIRE ALARM

Date 11/17/2011

Scale 1/8" = 1'

Sheet

FA-3



FIRE ALARM NOTES:

ATRIUM BUILDING

INSTALL NEW NAC
EXPANDER PANEL AND
STROBES THROUGHOUT
ATRIUM COMMON
AREAS.

EXISTING TENANT
SPACES ARE TO
REMAIN AS-IS

ADVANCED ALARM SYSTEMS INC

DESIGNED BY:
SUPERVISING ELECTRICIAN
LICENSE 26-12490LE NICET 104868 CCB 164076

No.	Revision/Issue	Date

Firm Name and Address

ADVANCED ALARM SYSTEMS INC
PO BOX 1623
FAIRVIEW OR 97024
503-290-4091

Project Name and Address

PIONEER PLACE
777 SW 4TH AVE
PORTLAND OR 97204

3RD FLOOR
FIRE ALARM

Project	Sheet
FIRE ALARM	FA-4
Date	11/17/2011
Scale	1/8" = 1'