City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	Issue Date:	CBL:
09-1108		003 C009001

Location of Construction:	Owner Name:	Owner Address:	Phone:
102 EASTERN PROMENADE	CASCO BAY VENTURES	223 WOODVILLE RD	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Cunningham Security Systems	10 Prince Point Road Yarmouth	2078463350
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		Fire Alarm System	R-6

Past Use:	Proposed Use:	Permit Fee:	Cost of Work:	CEO District:
Commercial legal use - 7 d.u.	Commercial - install a fire alarm system in basement	$140.00	$12,000.00	1

FIRE DEPT: ☑ Approved ☐ Denied
* See Conditions
Signature: KG

INSPECTION:
Use Group: V Type:
Alarm System
Signature:

Proposed Project Description:
install a fire alarm system in basement

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)
Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied
Signature: Date:

Permit Taken By:	Date Applied For:
Ldobson	10/02/2009

1. This permit application does not 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..

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland	☐ Variance	☑ Not in District or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐ Ok w/ conditions Date: 10/26 bi	☐ Denied Date:	☐ Denied Date:

PERMIT ISSUED

OCT 26 2009

City of Portland

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 is 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 provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT | ADDRESS | DATE | PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE | DATE | PHONE

City of Portland, Maine - Building or Use Permit

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09-1108	10/02/2009	003 C009001

Location of Construction:	Owner Name:	Owner Address:	Phone:
102 EASTERN PROMENADE	CASCO BAY VENTURES	223 WOODVILLE RD	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Cunningham Security Systems	10 Prince Point Road Yarmouth	(207) 846-3350
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Fire Alarm System	

Proposed Use:	Proposed Project Description:
Commercial - i7 residential units - nstall a fire alarm system in basement	install a fire alarm system in basement

Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Ann Machado **Approval Date:** 10/26/2009

Note: **Ok to Issue:** ☑

1) Thie current legal use of the property is seven resdiential units. Permit #08-0184 has been issued to change the ownership to seven residential condominoiums. When the certificates of occupancy get issued for the seven residentail condominiums, thast will become the legal use of the property. . Any change of use shall require a separate permit application for review and approval.
2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved **Reviewer:** Tammy Munson **Approval Date:** 10/26/2009

Note: **Ok to Issue:** ☑

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Capt Keith Gautreau **Approval Date:** 10/08/2009

Note: **Ok to Issue:** ☑

1) Emergency Lights are required for 3 or more stories in height.
2) Fire Alarm system shall be maintained.
   If system is to be off line over 4 hours a fire watch shall be in place.
   Dispatch notification required 874-8576.
3) The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance.
   Compliance letters are required.
4) The fire alarm system shall comply with NFPA 72 and Fire Department Technical Standard. A compliance letter is required.
5) Installation of a Fire Alarm system requires a Knox Box to be installed per city crdinance
6) All smoke detectors and smoke alarms shall be photoelectric. Carbon Monoxide detectors are required in the dwelling units by State law.
7) System acceptance and commissioning must be co-ordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.
8) All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP and keyed alike, labeled "FIRE ALARM RECORDS".

PERMIT ISSUED

OCT 26 2009

City of Portland

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

__X__ Final inspection required by the fire department at completion of work.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

_____ _____

Signature of Applicant/Designee Date

_____ _____

Signature of Inspections Official Date

PERMIT ISSUED

OCT 2 6 2009

City of Portland

CBL: 003 C009001 **Building Permit #:** 09-1108

Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING INSPECTION

PERMIT

Permit Number: 091108

Please Read Application And Notes, If Any, Attached

This is to certify that CASCO BAY VENTURES /Cunningham Security Systems

has permission to install a fire alarm system in basement

AT 102 EASTERN PROMENADE **CBL** 003 C009001

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and written permission procured before this building or part thereof is lathed or otherwise covered-in. 24 HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. CAPT. K. Faulkner

Health Dept. _____

Appeal Board _____

Other _____
Department Name

Director, Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

PERMIT ISSUED

SEP 26 2009

City of Portland

10 Princess Point Rd
Yarmouth, ME 04096

Fire Alarm Permit

If you or the property owner owes real estate or property taxes or user charges on any property within the city, payment arrangements must be made before permits of any kind are accepted.

Installation address: 102 EASTERN PROM CBL: 3-C-9

Exact location: (within structure) PANEL IN BASEMENT

Type of occupancy(s) (NFPA & ICC): _____

Building owner: CASCO BAY VENTURES

System Designer: MICHAEL MAJOR

Designer phone: 846-3350 E-mail: MMAJOR@CUNNINGHAMSECURITY.COM

Installing contractor: CUNNINGHAM SECURITY License No: MC60019840

Contractor phone: 846-3350 E-mail: INFO@CUNNINGHAMSECURITY.COM

This is a new application: YES ☑ NO ☐

This is an amendment to an existing permit: YES ☐ NO ☐ Permit no: _____

The following documents have been provided with this application:

Floor plans:	YES ☑	NO ☐
Wiring diagram:	YES ☐	NO ☐
Annunciator details:	YES ☑	NO ☐
Bid specifications:	YES ☐	NO ☑
Equipment data sheets:	YES ☑	NO ☐
Battery & voltage drop calculations:	YES ☐	NO ☐
Sequence of operations:	YES ☐	NO ☐
Designer/ personnel qualifications:	YES ☑	NO ☐

COST OF WORK: $12,000

PERMIT FEE: 140

($10 PER $1,000 + $30 FOR THE FIRST $1,000)

RECEIVED

OCT - 2 2009

Dept. of Building Inspections
City of Portland Maine

Download a new copy of this document from Inspection Division on-line at www.portlandmaine.gov for every submittal. Submit all plans on 11X17 copies or electronic PDF's in addition to full sized plans to the Building Inspections Department, 389 Congress Street, Room 315, Portland, Maine 04101.

Prior to acceptance of any fire alarm system, a complete commissioning and acceptance test must be coordinated with all fire system contractors and the Fire Department, and proper documentation of such test(s) provided.

All installation(s) must comply with NFPA 70, NFPA 72, and Fire Department Technical Standard(s).

Applicant signature: _____ Date: 9-25-09

State of Maine

DEPARTMENT OF PROFESSIONAL & FINANCIAL REGULATION

ELECTRICIANS' EXAMINING BOARD

License # MS60008944

Be it known that: **MICHAEL J. MAJOR**

has qualified as required by Title 32 MRSA Chapter 17 and is licensed as a

MASTER ELECTRICIAN

ISSUE DATE
Jan 01, 2008

Anne L. Head

~~Director, Office of Licensing & Registration~~
Authorizing signature

EXPIRATION DATE
Dec 31, 2009

State of Maine

DEPARTMENT OF PROFESSIONAL & FINANCIAL REGULATION

ELECTRICIANS' EXAMINING BOARD

License # MC60019840

Be it known that: **DBA CUNNINGHAM SECURITY MAJOR SECURITY HOLDINGS LLC**

has qualified as required by Title 32 MRSA Chapter 17 and is licensed as an

ELECTRICAL COMPANY
affiliated with MICHAEL J. MAJOR

ISSUE DATE
Sep 25, 2008

Anne L. Head

~~Director, Office of Licensing & Registration~~
Authorizing signature

EXPIRATION DATE
Sep 30, 2010

Mc 507969

6160CR

COMMERCIAL FIRE ALPHA KEYPAD

The 6160CR is an addressable remote keypad intended for use in commercial fire applications with Honeywell's control platforms. The keys are continuously backlit for convenience and easy visibility. The LCD display is backlit only when a key is depressed*, or when the system is in alarm or trouble condition.

* Note: On some platforms, the LCD may be programmed to remain on at all times (see panel instructions for details).

FEATURES

- Four programmable function keys
- Built-in sounder
- Four LEDs
  - Armed
  - Ready
  - Trouble
  - Supervisory
- Large easy-to-read display
- Red removable door
- Physical
  5.250" W x 7.437" H x 1.312" D

SPECIFICATIONS

Display

- Alphanumeric, 32-character (2 lines x 16 characters)
  LCD back light LEDs:

Armed	(red)
Ready	(green)
*Trouble	(yellow)
*Supervisory	(yellow)

* See control panel's instructions for specific applications regarding Trouble and Supervisory LEDs.

Sounder

- High-quality speaker

Electrical

- 45mA standby 150mA in alarm (sounder, back light and LED on)

Wiring Table (All keypads)

DI	"Data IN" to control panel from keypad
–	Ground (-aux. Power)
+	+12VDC (+aux. Power)
DO	"Data OUT" from control panel to keypad

Compatibility

- Supports Control Platforms
  - VISTA-32FB Rev. 3 and higher
  - VISTA-128FB Rev. 4 and higher
  - VISTA-128FBP
  - VISTA-250FBP
  - V128FBP-24
  - V250FBP-24

UL/CUL Listed for Residential and Commercial Fire and Burg installations. To be employed with manufacturer's listed control units as indicated in the installation instructions.

ORDERING

6160CR Commercial Fire Alpha Keypad

Automation and Control Solutions
Honeywell Security & Communications
2 Corporate Center Dr. Suite 100
P.O. Box 9040
Melville, NY 11747

www.honeywell.com

L/6160CR/D
October 2008

Honeywell

Honeywell

VISTA-128FBP/V128FBP-24

COMMERCIAL PARTITIONED FIRE AND BURGLARY ALARM CONTROL PANEL

Now UL864 9th Edition Approved

Designed to integrate seamlessly with CCTV, access control and Honeywell's full range of fire and burglary components, the new VISTA-128FBP provides the ultimate protection of life and property. The UL Listed commercial fire and burglary control panel supports up to eight partitions and up to 128 zones/points using hardwired, wireless and V-Plex® addressable technologies. A diverse line of Honeywell initiating devices, notification circuits, communication devices, keypads, RF receivers and relays are also supported. The VISTA-128FBP has been designed to mount quickly and easily in an attack resistant cabinet, and is available in 12V and 24V models.

FEATURES

- Eight hardwired zones standard, expandable to 120 V-Plex addressable points/zones or 128 wireless points/zones
- Can control eight separate areas independently (8 partitions)
- Supports commercial wireless fire and burglary devices
- Stores up to 512 events
- Accommodates 150 user codes and up to 250 access card holders using VistaKey
- Supports V-Plex addressable VistaKey access control (1 to 8 doors)
- Two on-board notification (bell) circuits delivering 2.3A @ 12V or 3.4A @ 24V
- Automatic smoke detector sensitivity maintenance testing
- Four-wire smoke reset using onboard J2 output trigger
- Supports Dynamic Signaling for AlarmNet Communicators
- Supports Remote Control via the Internet*
- Supports Internet Alarm Reporting*
- Supports Graphical User Interface Consoles
- Listed to UL864 9th Edition
- Upload/download via Ethernet*
- Carbon monoxide (CO) zone support

** When used with AlarmNet devices.*

VISTA-128FBP/V128FBP-24

COMMERCIAL PARTITIONED FIRE AND BURGLARY ALARM CONTROL PANEL

Honeywell

ADDITIONAL FEATURES

- Notification Appliance Circuits (two):
  - Programmable
  - Temporal code compliant
  - Individually silenceable
- Programmable on-board auxiliary relay
- False alarm reduction features:
  - Exit error logic
  - Exit delay reset
  - Cross zoning
  - Call waiting defeat
  - Recent close report
- Supports commercial hardwired, addressable V-Plex polling loop and wireless zones
- Hardwired zones
  - Provides eight style B hardwired zones
  - EOLR supervised for Fire and UL burglary installations
  - Supports N.O. or N.C. sensors
  - Individually assignable to any eight partitions
  - Up to 32 two-wire smoke detectors each on zone one and two (64 total)
  - Up to 50 two-wire glassbreak detectors on zone eight
- Patented addressable V-Plex polling loop technology
  - Supports 120 two-wire zones points
  - Global polling technology for faster processing
  - Supervised by panel
  - Zones individually assignable to partitions, notification circuit (bell) output or auxiliary relay
  - 4,000 ft. capability without the use of shielded cable
  - Extender/Isolation bus modules
  - Eight zone – Class A and B expander module
  - Eight zone – Class B expander module
  - One zone supervised contact monitor module
- UL Listed wireless expansion
  - Supports up to 128 wireless zones/points
  - Supervised by control for check-in signals
  - Tamper protection for transmitters
  - Individually assignable up to eight partitions
  - Supports commercial wireless smoke detectors
- Access Control integration
  - Full integration with PassPoint Access Control System Complete Gateway interface of VISTA and access functions
- Up to eight doors using VistaKey V-Plex Access Control
- Event reporting
- Local printer of access or VISTA related events
- Communication
  - Phone mapping by zone response type
  - Panel operation during download

Honeywell

SPECIFICATIONS

Applications

The VISTA-128FBP control is well suited for a variety of applications as an integrated fire and burglary control. A diverse line of Honeywell initiating devices supports this extremely powerful control. Some of the applications supported are: medical and professional buildings, churches or synagogues, office buildings, schools, strip malls, larger residences and factory or warehouse environments.

Electrical

- Primary power: 18VAC @ 72VA Honeywell No. 1451
- Control panel quiescent current draw: 300mA
- Backup battery:
  - 12VDC, 12AH min to 34.4AH max
  - Lead acid battery (gel type)
- Alarm power: 12VDC, 1.7A max for each notification (bell) circuit output Total 2.3A @ 12V
- Aux. standby pwr: 12VDC, 1A max
- Total power: 2.3A at 12VDC, 3.4A at 24VDC from all sources
- Standby time: 24 hours with 1A standby load using 34.4AH battery
- Fusing: Battery input, aux. and notification (bell) circuit outputs are protected using PTC circuit protectors. All outputs are power limited.
- Optional 24-volt power supply, PS 24 supplies two 24 VFW, 1.7A full wave rectified, unfiltered outputs

Main Dialer

- Line seize: Double Pole
- Ringer equiv.: 0.7B
- Formats: ADEMCO Low Speed, ADEMCO 4+2 Express, ADEMCO High Speed, ADEMCO Contact ID, Sescoa and Radionics
- Dual phone line capability (using 5140DLM module)

Cabinet dimensions

- 18" H x 14.5" W x 4.3" D

Environmental

- Storage temp: 14° F to 158° F (-10° C to 70° C)
- Operating temp: 32° F to 122° F (0° C to 50° C)
- Humidity: 85% RH
- EMI: Meets or exceeds the following requirements:
  - FCC Part 15, Class B Device
  - FCC Part 68
  - IEC EMC Directive

Agency Listings

- UL609 Grade A Local Mercantile Premises and Mercantile Safe and Vault
- UL611/1610 Grades A, AA, Central Station
- UL365 Grades A, AA Police Connect
- UL864/NFPA72 Local, Central Station and Remote Station
- UL985
- Factory Mutual
- California State Fire Marshal
- MEA
- CAN/ULC S304 – Central and Monitoring Station Burglar Alarm Unit
- CAN/ULC S527 – Central Unit for Fire Alarm Systems
- CAN/ULC S303 – Local Burglar Alarm Unit
- CAN/ULC S525 – Audible Signal Appliances

VISTA-128FBP/V128FBP-24

COMMERCIAL PARTITIONED FIRE AND BURGLARY ALARM CONTROL PANEL

COMPATIBLE DEVICES

Auxiliary Devices

- 6160CR-2 – Red Alpha Keypad
- 4204 – Relay Module, four form C contacts
- 4204CF – Two supervised output circuits
- 5881 Series RF receiver
- 5883H RF receiver
- 6220S – System printer used with 4100SM serial module
- 6160CR-2 – Red Fire Keypad
- 6160 – Burglary Keypad

Two-Wire Smoke Detectors Conventional

- System Sensor
- ESL
- DSC

Horn/Strobes

- System Sensor
- Wheelock
- Gentex

Manual Pull Stations

- 5140MPS-1
- 5140MPS-2

V-Plex (Addressable) Devices

- 4208U Loop Expansion Module – eight zones
- 4101SN Single Relay/Zone Module
- 4208SNF Class A/B Expander Module
- 4190SN Remote Point Module – two zones
- 4193SN Two-Zone Serial Interface Module
- VSI Module
- 4293SN One-Zone Serial Interface Module

V-Plex Extender/Isolation Modules

- 4297 Extender/Isolator Module
- VSI Isolator Module

V-Plex Smoke Detectors:

- 5193SD
- 5193SDT

V-Plex Passive Infrared Detectors

- 998MX
- IS2500SN
- DT7500SN

V-Plex (Addressable) Contacts

- 4939SN-WH
- 4944SN-WH
- 4959SN

V-Plex Glassbreak Detectors

- FG1625SN

Optional 24V Power Supply

- PS24 – 24V power supply – 3.4A

Commercial Wireless Devices

- 5808W3 – Photoelectric Smoke/Heat Detector
- 5806W3 – Photoelectric Smoke Detector
- 5809 – Wireless Heat Detector
- 5817CB – Wireless Commercial Transmitter
- 5869 – Hold-Up Transmitter
- 5881ENHC – RF Receiver
- 5883H – RF Receiver

Access Control

- VistaKey V-Plex (addressable) Access Control
- VistaKey-SK Starter Kit
- VistaKey-EX Expansion Kit

Alarm Communications

- 7845i-ENT – Internet/Intranet Communicator
- 7845GSM – Digital Cellular Communicator
- 7845i-GSM – Internet and Digital Cellular Communicator
- GSMCF/iGSMCF – Commercial Fire Communication Kits (when available)

Product specifications subject to change.

ORDERING

V128FBP-9	Commercial Fire and Partitioned Burglary Alarm Control Panel 12V Model
V128FBP9-24	Commercial Fire and Partitioned Burglary Alarm Control Panel 24V Model

For more information: www.honeywell.com/security/hsc

Automation and Control Solutions
Honeywell Security & Communications
2 Corporate Center Dr. Suite 100
Melville, NY 11747
1.800.467.5875
www.honeywell.com

Honeywell

L/VSTA128FBPD/D
September 2009

Honeywell

5809

WIRELESS HEAT DETECTOR

Honeywell's 5809 wireless fixed heat and rate-of-rise temperature sensor offers expanded fire detection and installation flexibility. It is ideal for hard to wire locations and applications that require more than smoke detection. With no wires to run, the 5809 is fast and easy to install.

The 5809 combines both rate-of-rise and fixed temperature sensors. Fires typically cause a rapid rise in temperature in the surrounding area. The 5809's rate-of-rise thermostat senses the rise in temperature and signals an alarm if the increase is 15° or more per minute. A built-in fixed temperature sensor will also signal an alarm if the environmental temperature rises above 135°F. The 5809 is UL Listed (UL521) and CSFM approved for commercial and residential applications.

FEATURES

- Contains a built-in transmitter which can send alarm, supervisory and battery condition messages to the system's receiver/control unit
- Powered by a three-volt lithium battery. If the battery voltage gets too low, the 5809 sends a low battery signal to the control panel
- Features a tamper switch, which causes a trouble signal to be sent to the control if the unit is removed from the mounting base
- UL Listed for Commercial (when using 5881EH Receiver) or Residential applications

5809

WIRELESS HEAT DETECTOR

SPECIFICATIONS:

- **Power:**
  - 3V lithium battery (Duracell DL123A, Panasonic CR123A, Sanyo CR123A, Varta CR123A)
  - Operating temperature: 40° to 140°F (6° to 60°C)
  - Rate-of-rise temperature: 15°F (8°C) increase per minute (NOTE: Rate-of-rise sensor does not operate above 38°C)
  - Fixed temperature: 135°F (57°C)
  - Maximum spacing: 50 ft x 50 ft UL, 30 ft x 30 ft FM (refer to National Fire Alarm Code Standard NFPA 72 for application requirements)
  - Dimensions: 4.4" diameter/2/2" deep
- **Agency Listings:**
  - UL 521 Listed for Commercial (when using 5881EH Receiver) or Residential applications
- **Wireless Transmission Path Test:**
  - A good RF transmission path must be established from the proposed mounting location before permanently installing the detector. To determine that there is a good signal reception from the proposed location, perform the test procedure described in the installation instructions procedure.

MOUNTING THE DETECTOR:

- You can mount the 5809 on a wall or ceiling within the protection area:
- Wall mounting: Mount the detector 4" 6" from the ceiling
Ceiling mounting: Mount the detector at least 4" from any wall. Make sure the normal ceiling temperature will not exceed 100°F (37.8° C).
- Refer to NFPA Standard 72 for detector spacing and other requirements. Maximum spacing for UL installations is 50' x 50'
- Avoid mounting the detector near heat generating devices (e.g. ovens, heat vents, furnaces, boilers)
IMPORTANT: Heat detectors should be used for property protection. Reliance should not be placed soley on heat detectors for life safety. When life safety is involved, smoke detectors MUST also be used. Detectors must not be painted.

TESTING THE DETECTOR:

The test procedure should be performed to determine a good RF transmission path and again after installation is completed.

CAUTION: The fixed temperature sensor is intended for one-time use. Prolonged heat during testing can damage the unit. If used carefully following the instructions described below, the heat from a portable hair dryer can be used to test the unit. If the round disk on top of the detector detaches, the detector must be replaced.
- Activiate the control panel's test mode
- Use either method (a) or (b) or activate the detector

(a) Press and release the activation button on the PC board assembly OR
(b) Holding a portable hair dryer about 12 to 18 inches away from the detector, turn the dryer on and aim the warm air at the side of the detector.
CAUTION: Aiming the dryer directly at the round disk on the detector can damage the unit to be replaced.
- The system's keypad should beep and the detector's ID should be displayed
- Exit the control's test mode
FCC ID: CFS 8DL 5809

This device complies with part 15 of FCC rules.

Operation is subject to the following conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

ORDERING

5809 Heat Detector

Honeywell Security & Custom Electronics
Honeywell
2 Corporate Center Drive Suite 100
P.O. 9040
Melville, NY 11747
www.honeywell.com

Honeywell

L/5809/D
October 2007

SECURITY ACCESS AND SURVEILLANCE
SECTION 13850

VISTA-128FBP
ARCHITECT AND ENGINEER SPECIFICATION
FOR
SECURITY SYSTEM

ADEMCO Group
165 Eileen Way
Syosset, New York 11791

1-800-645-7568

SECTION 13850
DETECTION AND ALARM

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes

1. Control Panel
2. Associated Equipment

B. Products Installed But Not Supplied Under This Section

1. Section 16140 - Wiring Devices
2. Section 16530 - Emergency Lighting

C. Related Sections

1. Section 13700 - Security Access and Surveillance
2. Section 13800 - Building Automation and Control

1.02 REFERENCES

A. Underwriters Laboratories (UL):

1. UL 268 – Smoke Detectors for Fire Protective Signaling Systems
2. UL 365 – Police Station Connected Burglar Alarm Units and Systems
3. UL 609 – Local Burglar Alarm Units and Systems
4. UL 611 – Central Station Burglar-Alarm Units
5. UL 636 – Holdup Alarm Units and Systems
6. UL 684 – Local, Central Station, and Remote Station
7. UL 864 – Control Units for Fire Protective Signaling Systems
8. UL 985 – Household Fire Warning System Units
9. UL 1023 – Household Burglar-Alarm System Units
10. UL 1076 – Proprietary Burglar-Alarm Units and Systems
11. UL 1610 – Central-Station Burglar-Alarm Units

B. Federal Communications Commission (FCC):

1. Code of Federal Regulations Title 47 - Part 15 – Radio Frequency Devices
2. Code of Federal Regulations Title 47 - Part 68 – Connection of Terminal Equipment to the Telephone Network

C. National Fire Protection Association (NFPA):

1. NFPA70 – National Electrical Code.

2. NFPA 72 – National Fire Protection Code

1.03 SYSTEM DESCRIPTION

A. The system shall be a Fire/Burglary/Access Control/CCTV Switching System that includes the following capabilities:

1. Listed for UL Commercial Fire and Burglary.
2. Supports up to 128 zones.
3. Supports up to eight (8) separate partitions.
4. Supports up to 150 users.
5. Supports commercial wireless devices.
6. Provides integrated security, access control, and CCTV switching and commercial fire capability.
7. Provides supervision of peripheral devices.
8. Supports up to 96 optional relay outputs.
9. Supports long-range radio (LRR) communication.
10. Provides scheduling capability to allow for automated operations.
11. Supports up to eight (8) alphanumeric paging devices.
12. Supports panel linking.
13. Supports alarm reporting via Internet.
14. Interfaces with automation software.
15. Monitors smoke detector maintenance signals.
16. Capable of being installed using existing wiring.

1.04 SUBMITTALS

A. Submittals shall include manufacturer data sheets for all major system components.

1.05 QUALITY ASSURANCE

A. The alarm manufacturer shall be certified as being compliant with ISO9001.

PART 2 PRODUCTS

2.01 SYSTEM PERFORMANCE

A. Control Panel - The control panel shall be an eight (8)-partition, UL commercial fire and burglary control panel that supports up to 128 zones using basic

hardwired, polling loop, and wireless zones. It shall also provide supervision of two (2) notification appliance output circuits (NAC), RF receivers, and relay modules. In addition, the control shall provide the ability to schedue time-driven events, and allow certain operations to be automated by pressing a single button. The system shall be capable of interfacing with an ECP long-range radio (LRR) unit that can send Contact ID messages, and alphanumeric paging devices. The control shall provide integrated access control and CCTV-switching capability with the use of a single downloader and database.

1. Basic Hardwired Zones - The control shall provide eight (8) style-B hardwire zones with the following characteristics:
   a. EOLR supervision (optional for zones 3-8): Shall support N.O. or N.C. sensors (EOLR supervision required for UL installations).
   b. Zones/Points shall be individually assignable to one of eight (8) partitions.
   c. Support up to 32 two-wire smoke detectors on two selected zones (64 total).
   d. Support four-wire smoke or heat detectors on any zone (power to four-wire smoke detectors must be supervised with an EOL device).
   e. Support up to 50 two-wire latching glass break detectors on one selected zone.
   f. Individually assignable to Notification Appliance (NAC) outputs and/or auxiliary relays.

2. Optional Expansion Zones
   a. Polling Loop Expansion – The control shall support up to 120 additional hardwire zones using a built-in two-wire polling (multiplex) loop interface. The polling loop shall provide power and data to remote point modules, and constantly monitor the status of all zones on the loop. Maximum current draw shall not exceed 128 mA. The polling loop zones shall have the following characteristics:
      (1) Interface with RPM (Remote Point Module) devices that provide Class B, Style Y (e.g., 4208U/4208SN) or a combination of Class B, Style Y, and Class A, Style Z (e.g., 4208SNF) zones.
      (2) Individually assignable to one of eight (8) partitions.
      (3) Individually assignable to NAC outputs or auxiliary relays.
      (4) Supervised by the control panel.
      (5) A 12,000 ft (3658 m) wire run capability without using shielded cable.

(6) Each RPM (Remote Point Module) enclosure shall be tamper protected.

b. Wireless Expansion – The control shall support up to 128 wireless zones using a 5800 series RF receiver (fewer if using hardwire and/or polling loop zones). Wireless zones shall have the following characteristics:

(1) Supervised by control panel for check-in signals (except certain non-supervised transmitters).

(2) Tamper-protection for supervised zones.

(3) Individually assignable to one of the partitions.

(4) Individually assignable to bell outputs and or auxiliary relays.

(5) Support wireless devices listed for Commercial Burglary using the 5881ENHC RF Receiver.

3. Partitions – The control shall provide the ability to operate eight (8) separate areas, each functioning as if it had its own control. Partitioning features shall include:

a. A Common Lobby partition (1-8), which can be programmed to perform the following functions:

(1) Arm automatically when the last partition that shares the common lobby is armed.

(2) Disarm when the first partition that shares the common lobby is disarmed.

b. A Master partition (9), used strictly to assign keypads for the purpose of viewing the status of all eight (8) partitions at the same time (master keypads).

c. Assignable by zone.

d. Assignable by keypad/annunciator.

e. Assignable by relay to one or all eight (8) partitions.

f. Ability to display fire and/or burglary and panic and/or trouble conditions at all other partitions' keypads (selectable option).

g. Certain system options selectable by partition, such as entry/exit delay and subscriber account number.

4. User Codes – The control shall accommodate 150 user codes, all of which can operate any or all partitions. Certain characteristics must be assignable to each user code, as follows:

a. Authority level (Master, Manager, or several other Operator levels). Each User Code (other than the installer code) shall be

capable of being assigned the same or a different level of authority for each partition that it will operate.

b. Opening/Closing central station reporting option.

c. Specific partitions that the code can operate.

d. Global arming capability (ability to arm all partitions the code has access to in one command).

e. Use of an RF (button) to arm and disarm the system (RF key must first be enrolled into the system).

5. Peripheral Devices – The control shall support up to 30 addressable ECP devices, which can be any combination of keypads, RF receivers, relay modules, annunciator modules, and interactive phone modules. Peripheral devices have the following characteristics:

a. Each device set to an individual address according to the device's instructions.

b. Each device enabled in system programming.

c. Each device's address shall be supervisable (via a programming option).

6. Keypad/Annunciator – The control shall accommodate up to 16 keypads or six (6) touch-screen (i.e.; advanced user interface) keypads. The keypads shall be capable of the following:

a. Performing all system arming functions.

b. Being assigned to any partition.

c. Providing four programmable single-button function keys, which can be used for:

(1) Panic Functions –activated by wired and wireless keypads; reported separately by partition.

(2) Keypad Macros –32 keypad macro commands per system (each macro is a series of keypad commands). Assignable to the A, B, C, and D keys by partition.

7. Optional Output Relays - A total of 96 relay outputs shall be accommodated using relay modules. Each relay module shall provide four (4) Form C (normally open and normally closed) relays for general-purpose use or two (2) Class-B, Style-Y supervised notification appliance circuit outputs, when using the 4204CF module. The relays shall be capable of being:

a. Programmed to activate in response to system events.

b. Programmed to activate using time intervals.

c. Activated manually using a relay command mode.

d. Assigned an alpha descriptor.

e. Used for Class B, Style-Y supervised bell outputs (4204CF module).

f. A combination of 4204 (ECP) and 4101SN (polling loop) relays.

8. Optional Vista Interactive Phone Module – The control shall support the ADEMCO 4285/4286 VIP Modules, which permit access to the security system in order to perform the following functions:

a. Obtain system status information.

b. Arm and disarm the security system.

c. Control relays.

9. Optional LED Annunciator – The control shall support the ADEMCO FSA-8 and FSA-24 annunciators, which are capable of:

a. Visually identifying a zone or point that is in alarm or trouble.

b. Programmable for system silence/reset.

c. Up to 96 LEDs may be used in one system.

d. A total of four (4) FSA-24 or 12 FSA-8 annunciators may be used in one system.

e. An optional keyswitch, FSAKSM module, shall be available for UL listed Silence and Reset capability.

10. Notification Appliance Circuits (NAC) – The Control Panel shall internally provide two supervised NAC outputs for operating fire and burglar alarm notification appliances. It shall also support additional supervised bell outputs when using 4204CF relay modules. Each NAC output shall be rated at 10-14 VDC, 1.7 amp max power limited. Total alarm current draw when using two NAC outputs shall not exceed 2.3 amps for battery independent operation.

11. Auxiliary Relay – A built-in Form C relay shall be provided. The relay contacts shall be rated at 28 VAC/VDC, 2.8 amps maximum. The relay shall support:

a. Alarm activation.

b. Trouble/supervisory activation.

c. Reset of four-wire smoke detectors.

d. Battery saving feature.

12. Integrated Access Control – The control shall be capable of the following:

a. Providing a command that activates relays to allow access doors to open (e.g., lobby door), lights to be turned on or off, etc.

b. Becoming a fully integrated access control system by using numerous VistaKey Single-Door Access Control Modules.

c. Supporting up to eight (8) VistaKey Access Control Modules. The VistaKey Access Control Modules shall use the same Compass Downloader as the Vista-128FBP and shall be programmable from the Compass Downloader or the Keypad/Annunciators.

d. Assigning any number of access control relays to each partition (up to 96 for the system).

e. Supporting up to 250 access card holders using VistaKey.

f. Connecting to the ADEMCO PassPoint Access Control System via the Vista Gateway Module (VGM).

13. CCTV Switching – The System shall be capable of supporting the VistaView 100 CCTV Switching System. The CCTV system shall be fully integrated and be event driven by Fire, Burglary or Access events. When cameras are not event driven, they shall be driven by an automatic preset dwell time. The system shall also be capable of:

a. Activating the CCTV system via a Form-C relay output.

b. Operating up to 60 camera inputs and 30 video outputs.

14. Commercial Wireless Equipment – The Control shall be compatible with UL Listed Commercial Wireless Fire & Security equipment including:

a. ADEMCO 5881ENHC Commercial Fire/Burg Receiver. - The receiver shall be capable of receiving as many points as the control panel is rated for. Up to two (2) receivers may be used on any system. Receivers may be remotely located anywhere on the system Keypad/Annunciator bus.

b. ADEMCO 5808LST Wireless Photoelectric Smoke and Heat Detector - The device shall be UL 268 listed and shall have Maintenance Alert capability and Automatic Drift Compensation.

c. ADEMCO 5809 Wireless 135D Fixed Temperature and Rate of Rise Heat Detector - The device shall be UL 521 listed for commercial applications.

d. ADEMCO 5817CB Wireless Universal Contact Monitoring Transmitter - This device shall be capable of making any conventional UL listed contact device a wireless device. The device shall be UL listed for commercial fire and burglary applications as follows: UL 864, 985 for fire and UL 365, 609, 1023, 1076 and 1610 for security and nurse call.

e. ADEMCO 5869 Wireless Hold Up Switch/Transmitter - This device shall be UL 636 listed for commercial burglary applications.

15. Optional Keyswitch – The control shall support the ADEMCO 4146 Keyswitch on any one of the system's eight (8) partitions. If used, zone 7 is no longer available as a protection zone.

16. Voltage Triggers – The system shall provide voltage triggers, which change state for different conditions. Used with long-range radio (LRR) equipment or other devices such as a remote keypad sounder, keyswitch ARMED and READY LEDs, or a printer to print the system's event log.

17. Event Log – The System shall maintain a log of different event types (enabled in programming). The event log shall provide the following characteristics:

    a. Stores up to 512 events.

    b. Viewable at the keypad or through the use of Compass software.

    c. Printable on a serial printer using a 4100SM Module including zone alpha descriptors.

    d. Stores PassPoint access control events.

    e. Sends printed events to up to eight (8) alphanumeric pagers.

18. Scheduling - Provides the following scheduling capabilities:

    a. Open/close schedules (for control of arming/disarming and reporting).

    b. Holiday schedules (allows different time windows for open/close schedules).

    c. Timed events (for activation of relays, auto-bypassing and un-bypassing, auto-arming and disarming, etc.).

    d. Access schedules (for limiting system access to users by time)

    e. End User Output Programming Mode (provides 20 timers for relay control).

    f. The system shall automatically adjust for daylight savings time.

19. Communication Features - Supports the following formats and features for the primary and secondary central station receivers:

    a. Formats

        (1) ADEMCO Low Speed (Standard or Expanded).

        (2) Sescoa/Radionics.

        (3) ADEMCO Express.

(4) ADEMCO High Speed.

(5) ADEMCO Contact ID.

b. Backup reporting – The system shall support backup reporting via the following:

(1) Secondary phone number.

(2) ECP long-range radio (LRR) interface.

(3) Option to select long range radio (LRR) or dialup as the primary reporting method (dynamic signaling feature).

c. Internet reporting – The system shall be capable of communicating with the central station via the internet using Alarmnet-i. It shall shall provide the user with the ability to control the system via a browser interface (i.e., AOL, Netscape, Internet Explorer). All packet data transmitted to the monitoring station shall be encrypted with a minimum of 1024 bits of encryption.

20. Audio Alarm Verification Option - Provides a programmable Audio Alarm Verification (AAV) option that can be used in conjunction with an output relay to permit voice dialog between an operator at the central station and a person at the premises.

21. Cross-Zoning Capability - Helps prevent false alarms by preventing a zone from going into alarm unless its cross-zone is also faulted within five (5) minutes.

22. Pager Interface – The Control Panel shall be capable of sending event information to an alphanumeric pager via a VA-8201 pager interface device.

23. 24-Volt Power Supply – The Control Panel shall be compatible with a 24-Volt power supply module. The module shall supply two (2) 24 vdc, 3.4 amps, rectified, unfiltered outputs, which power:

a. Alarm notification appliances, including but not limited to sirens horns, bells and strobes.

b. Auxiliary devices capable of operating using full-wave rectified unfiltered voltage.

24. Exit Error False Alarm Prevention Feature – The System shall be capable of differentiating between an actual alarm and an alarm caused by leaving an entry/exit door open. If not subsequently disarmed, the control panel shall:

a. Bypass the faulted E/E zone(s) and/or interior zones and arm the system.

b. Generate an Exit Error report by user and by zone so the central station knows it was an exit alarm and who caused it.

25. Enhanced Fire Walk-Test Mode – The Control Panel shall provide the installer with the following features:

a. Automatic test of all integrated remote point module (RPM) devices, equipped with an automatic test feature.

b. While automatic test is in progress all fire zones that remain untested shall be displayed.

c. An event log shall be capable of logging the results of tested and untested zones.

d. The ability to report the result of tested and untested zones to the central station.

26. Built-in User's Manual and Descriptor Review - For end-user convenience, the control panel shall contain a built-in User's Manual. It shall include the following capabilities:

a. By depressing any of the function keys on the keypad for five (5) seconds, a brief explanation of that function shall scroll across the alphanumeric display.

b. By depressing the READY key for five (5) seconds, all programmed zone descriptors shall be displayed (one at a time). This feature shall provide a check for installers and ensure all descriptors have been entered properly.

27. Programming - The Control shall be capable of being programmed locally or remotely using the ADEMCO Compass Downloader and shall be capable of:

a. Uploading and downloading all programming information at 300 baud.

b. Uploading and displaying firmware revision levels from the control.

28. Panel Linking - The Control shall be capable of being networked together with up to eight other controls and being operated by any keypad within the system. It shall provide the ability for users to:

a. Control multiple zones, partitions, and/or buildings from a central location.

b. Check status, arm and disarm any partition from any keypad in the system.

c. Globally arm or disarm partitions based upon user authority.

29. Automation Software - The Control shall be capable of interfacing with automation software via an RS232 input on a single partition.

The control panel shall be the ADEMCO VISTA-128FBP Commercial Fire/Burglary Partitioned Security System or equivalent.

2.02 ENCLOSURE

A. The Control Panel shall be enclosed in a metal cabinet, suitable for wall mounting. The dimensions shall not exceed 18 inches (45.7 cm) in height, 14.5 inches (36.8 cm) in width or 4.3 inches (10.9 cm) in depth.

2.03 ELECTRICAL POWER REQUIREMENTS

A. System Power – The Fire and Burglary Alarm System shall operate using standard 120 volts AC, 50/60 Hz power.

1. Control Primary Power – Transformer power shall be 18 VAC, 72 VA.

2. Backup Battery – A rechargeable 12 VDC, gel type, lead acid backup battery shall be provided. The battery shall be rated between 12 and 34-ampere hours (AH).

3. Alarm Power – Alarm power shall be 12 VDC, 1.7 amps for each bell output

4. Auxiliary Standby Power – Standby power shall be 12 VDC, 1 amp maximum.

5. Total Power - Combined auxiliary standby and alarm currents shall be 2.3 amps.

6. Fusing – The battery input, auxiliary, and bell outputs shall be protected using PTC circuit breakers. All outputs shall be power limited.

7. Power Supply - A 24-volt power supply shall provide 24 vdc, 3.4 amps full-wave rectified, unfiltered outputs.

2.04. ENVIRONMENTAL CONDITIONS

A. Environmental Conditions – The Fire and Burglary Alarm System shall be designed to meet the following environmental conditions.

1. Storage Temperature – The system shall be designed for a storage temperature of -10° C to 70°C.

2. Operating Temperature - The system shall be designed for an operating temperature of 0° C to 50°C (32° F to 120°F).

3. Humidity - The system shall be designed for normal operation in an 85% relative humidity environment.

4. Electromagnetic Interference – The system shall meet or exceed the requirements of FCC Part 15, Class B devices, FCC Part 68, IEC EMC directive.

PART 3 EXECUTION

3.01 EXAMINATION

A. Submission of a proposal confirms that the Contract Documents and site conditions are accepted without qualifications unless exceptions are specifically noted.

B. The site shall be visited on a regular basis to appraise ongoing progress of other trades and contracts, make allowances for all ongoing work, and coordinate the requirements of this contract in a timely manner.

3.02 INSTALLATION

A. The System shall be installed and tested in accordance with the Manufacturer's Installation instructions. The following conditions are applicable:

1. In order to ensure a complete, functional System, for bidding purposes, where information is not available from the Owner upon request, the worst case condition shall be assumed.

2. Interfaces shall be coordinated with the Owner's representative, where appropriate.

3. All necessary backboxes, pullboxes, connectors, supports, conduit, cable, and wire shall be furnished and installed to provide a complete and reliable System installation. Exact location of all boxes, conduit, and wiring runs shall be presented to the Owner for approval in advance of any installation.

4. All conduit, cable, and wire shall be installed parallel and square with building lines, including raised floor areas. Conduit fill shall not exceed forty percent (40%). All wires shall be gathered and tied up to create an orderly installation.

3.03 TESTING AND CERTIFICATION

A. The Contractor shall demonstrate the functionality of the System upon completion of installation, documenting the result of all tests and providing these results to the Owner. The System shall be tested in accordance with the following:

1. The Contractor shall conduct a complete inspection and test of all installed equipment. This includes testing and verifying connection to equipment of other Divisions.

2. The Contractor shall provide staff to test all devices and all operational features of the System for witness by the Owner's representative and the Authority having jurisdiction. The Contractor shall provide two-way radio communications to assist in the testing. All testing must be witnessed by the owner's representative, prior to acceptance.

3. The testing and certification shall take place as follows:

    a. System shall be tested in conjunction with the manufacturer's representative.

    b. All deficiencies noted in the above test shall be corrected.

    c. Test results shall be submitted to the consultant or owner's representative.

    d. System test witnessed by owner's representative and correction of any deficiencies noted.

    e. The owner's representative shall accept the System.

    f. System test shall be witnessed by the Authority having Jurisdiction, and any deficiencies that are noted shall be corrected.

4. A letter of certification shall be provided to indicate that the tests have been performed and all devices are operational.

END OF SECTION

Regulatory Agency Statements

UL Installation Requirements

The following requirements apply to both UL residential and UL commercial burglary installations:

1. All partitions must be owned and managed by the same person(s).
2. All partitions must be part of one building at one street address.
3. The audible alarm device(s) must be placed where it/they can be heard by all partitions.
4. The control cabinet must be protected from unauthorized access. This can be done by installing a tamper switch on the cabinet door (supplied with VISTA-128FBP/VISTA-250FBP) or by installing a UL Listed passive infrared detector positioned to detect cabinet access. Wire the selected device to any EOLR-supervised zone (Zone 1-8). Program this zone for day trouble/night alarm (type 05) or 24-hour audible alarm (type 07) response. The 24-hour alarm response must be used for multiple partitioned systems.
5. Remote downloading and auto-disarming are not UL Listed features.

UL864/NFPA Local Fire

Configure at least one Notification Appliance Circuit for supervision and wire polarized fire alarm indicators to it. Program this circuit for temporal sounding.

UL864/NFPA Central Station and Remote Station Fire

1. Size the backup battery for 24-hour standby (central station) or 60-hour standby (remote station) time.
2. For central station service, you may use the 7720ULF or 7920SE LORRAs alone, the main dialer with a LORRA, or the main dialer with the 5140DLM Backup Dialer Module. For remote station service, you must use the main dialer with the 5140DLM Backup Dialer Module.
3. When using the LORRA, connect its channel inputs to the VISTA-128FBP/VISTA-250FBP's fire alarm, fire supervisory (if used), and trouble triggers. Also connect its XMIT OKAY output to Input 1 on the VISTA-128FBP/VISTA-250FBP's J2 header. Program J2 Input 1 system Zone 973 for 24-hour trouble response (type 19) to send radio faults.
4. When the main dialer is used, enable it (field 3*30) and connect it to a telephone line. Assign a 24-hour trouble response (type 19) to system Zone 974 to enable main dialer supervision. The VISTA-128FBP/VISTA-250FBP will activate the trouble trigger when it detects a main dialer supervision fault.
5. When the backup dialer is used, install it on the VISTA-128FBP/VISTA-250FBP's PCB shield. Enable it (field 3*30) and connect it to a separate telephone line. Assign a 24-hour trouble response (type 19) to system Zone 975 to enable backup dialer supervision.
6. When the dialer is used, program it to send fire alarm, fire supervisory (if used), trouble, AC loss, low battery, normal dialer test, and off-normal dialer test reports. Field *27 must be set to "024" maximum so that test reports are sent at least once every 24 hours.
7. If a secondary number is programmed, set the maximum number of dialer re-tries to 3, 4, or 5 in field 3*21.

UL609 Grade A Local Mercantile Premises/Local Mercantile Safe & Vault

1. Use the VISTA-128FBP/VISTA-250FBP.
2. All zones must be configured for EOLR supervision (*41=0). Wireless sensors may not be used. If 4190WH RPMs are used, set field *24 to "0" to enable tamper detection.
3. Attach a door tamper switch (supplied) to the VISTA-128FBP/VISTA-250FBP cabinet backbox. For safe and vault installations, a shock sensor (not supplied) must also be attached to the backbox. (Also see *Mounting the Cabinet* in *SECTION 3: Installing the Control*)

4. Wire an ADEMCO AB12 Grade A Bell/Box to the Notification Appliance Circuit. Bell wires must be run in conduit. Program the Notification Appliance Circuit for 16 minutes or longer timeout and for confirmation of arming ding. (Also see *SECTION 3: Installing the Control*)
5. Wire the VISTA-128FBP/VISTA-250FBP tamper switch and AB12 Bell/Box tamper switches to any EOLR supervised zone (zones 1-8). Program this zone for day trouble/night alarm (type 05) or 24-hour audible alarm (type 07) response. The 24-hour alarm response must be used for multiple partitioned systems.
6. Entry delays must not exceed 45 seconds, and exit delays must not exceed 60 seconds.

UL365 Police Station Connected Burglar Alarm

Follow the instructions for UL609 local installations given above.

For Grade A Service:

- You may use the VISTA-128FBP/VISTA-250FBP dialer alone, or the 7720 Long Range Radio alone.
- When using the dialer, program it to send Burglary Alarm, Low Battery and Communicator Test reports. Field *27 must be set to "024" (or less) so that test reports are sent at least once every 24 hours.
- If using the 7720, connect it to the VISTA-128FBP/VISTA-250FBP burglary/audible panic alarm trigger.

For Grade AA Service:

- You must use a 7920SE Long Range Radio.
- Connect the 7920SE to the VISTA-128FBP/VISTA-250FBP burglary/audible panic alarm trigger.

UL611/UL1610 Central Station Burglary Alarm

Follow the instructions for UL609 local installations given above.

For Grade A Service:

- You must use the VISTA-128FBP/VISTA-250FBP's dialer with a 7720 Long Range Radio.
- Connect the control's burglary/audible panic alarm trigger (on J2 header) to the 7720. Program a 24-hour trouble response for Zone 974 to enable main dialer supervision. The VISTA-128FBP/VISTA-250FBP will activate the burglary/audible panic trigger when a corresponding alarm is detected, and will activate the trouble trigger when a main dialer fault is detected.
- Also connect the 7720's radio fault output to one of the VISTA-128FBP/VISTA-250FBP's EOLR-supervised zones (i.e., 1-8). Program this zone for a trouble by day/alarm by night (type 05) or a 24-hour alarm (type 07, 08) response to radio faults.
- Program the control's dialer to send Burglary Alarm, Trouble, Opening/Closing, and Low Battery reports.

For Grade AA Service:

Follow the instructions for Grade A service, except use the 7920SE in place of the 7720.

California State Fire Marshal (CSFM) Requirements.

24-hour backup: The California State Fire Marshal has published new regulations which require that all residential fire alarm control panels installed after June 30, 1993 must be provided with a backup battery which has sufficient capacity to operate the panel and its attached peripheral devices for 24 hours in the intended standby condition, followed by at least 4 minutes in the intended fire alarm signaling condition. Be sure to size the battery to meet this requirement.

FEDERAL COMMUNICATIONS COMMISSION (FCC) PART 15 STATEMENT

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IN THE EVENT OF TELEPHONE OPERATIONAL PROBLEMS

In the event of telephone operational problems, disconnect the control panel by removing the plug from the RJ31X (CA38A in Canada) wall jack. We recommend that you demonstrate disconnecting the phones on installation of the system. Do not disconnect the phone connection inside the control panel. Doing so will result in the loss of your phone lines. If the regular phone works correctly after the control panel has been disconnected from the phone lines, the control panel has a problem and should be returned for repair. If upon disconnection of the control panel, there is still a problem on the line, notify the telephone company that it has a problem and request prompt repair service. The user may not under any circumstances (in or out of warranty) attempt any service or repairs to the system. It must be returned to the factory or an authorized service agency for all repairs.

FCC PART 68 NOTICE

This equipment complies with Part 68 of the FCC rules. On the front cover of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

This equipment uses the following jacks:

An RJ31X is used to connect this equipment to the telephone network.

The REN is used to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact the manufacturer for repair and warranty information. If the trouble is causing harm to the telephone network, the telephone company may request that you remove the equipment from the network until the problem is resolved.

There are no user serviceable components in this product, and all necessary repairs must be made by the manufacturer. Other repair methods may invalidate the FCC registration on this product.

This equipment cannot be used on telephone company-provided coin service. Connection to Party Line Service is subject to state tariffs.

This equipment is hearing-aid compatible.

When programming or making test calls to an emergency number, briefly explain to the dispatcher the reason for the call. Perform such activities in the off-peak hours, such as early morning or late evening.

CANADIAN EMISSIONS STATEMENTS

This Class B digital apparatus complies with Canadian ICES-003

NOTICE

The Industry Canada Label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may cause the telecommunications company to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact an appropriate electric inspection authority, or electrician, as appropriate.

NOTICE: The **Ringer Equivalence Number** (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

AVIS

L'étiquette d'Industrie Canada identifie le matériel homologué. Cette étiquette certifie que le matériel est conforme aux normes de protection, d'exploitation et de sécurité des réseaux de télécommunications, comme le prescrivent les documents concernant les exigences techniques relatives au matériel terminal. Le Ministère n'assure toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur. Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de l'enterprise locale de télécommunication. Le matériel doit également être installé en suivant une méthode acceptée da raccordement. L'abonné ne doit pas oublier qu'il est possible que la conformité aux conditions énoncées ci-dessus n'empêche pas la dégradation du service dans certaines situations.

Les réparations de matériel nomologué doivent être coordonnées par un représentant désigné par le fournisseur. L'entreprise de télécommunications peut demander à l'utilisateur da débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise à la terre de la source d'energie électrique, de lignes téléphoniques et des canalisations d'eau métalliques, s'il y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales.

Avertissement : L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir racours à un service d'inspection des installations électriques, ou à un électricien, selon le cas.

AVIS : L'indice d'équivalence de la sonnerie (IES) assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface. La terminaison d'une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

DESCRIPTION

PRODUCT COVERED:

USL, CNL - Combination Control/Communicator Models 5140XM, Vista 100, Vista-128FB, Vista-128FBP, Vista-250FBP, VISTA-250FBPADT, FA1600C, FA1700C and Vista-32FB intended for use with Model 1451 Transformer.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

##: For Canadian Versions Only

USL indicates evaluation to the following Standards:
*UL 609 -Local Burglar Alarm Units and Systems
*UL 365 -Police Station Connected Burglar Alarm Units and Systems
*UL 1610-Central Station Burglar Alarm Units
*UL 1635 -Digital Alarm Communicator System Units
*UL 864 -Control Units For Fire-Protective Signaling Systems.

CNL indicates evaluation to the Standard for Central and Monitoring Station Burglar Alarm Units, CAN/ULC-S304-M88, the Standard for Fire Protective Signaling Systems, CAN/ULC-S527-M89, and the Standard for Supervising Station Communication Systems, NFPA-72, Section 4-5.

Suitable for Local Protective Signaling System use when used with suitable sounding device. Compatible alarm indicating/notification appliances, with EOL supervision, shall be employed as indicated in the control unit's installation instructions. Battery and loading requirements shall be configured as described in the Installation Instructions to provide for 24 hours of normal standby power and at least 5 minutes of general alarm standby power. Combined auxiliary power and alarm currents shall not exceed 2.3 A.

Suitable for Central Station Protective Signaling Service when used with Model 7620ULF, 7720ULF or with Model 5140DLM for central station monitoring. Local alarm indicating/notification appliance use is optional subject to the requirements of the Local Authorities Having Jurisdiction. Battery and loading requirements shall be configured as described in the Installation Instructions for Central Station service.

Suitable for Remote Station Fire Alarm System Service when used with Model 5140DLM. Local alarm indicating/notification appliance use is optional subject to the requirements of the Local Authorities Having Jurisdiction. Battery and loading requirements shall be configured as described in the Installation Instructions for Remote Station service to provide 60 hours of normal standby power and at least 5 minutes of general alarm standby power.

A total of eight operator keypads, (Model 6139CN or FA560KP) may be connected to each control unit by means of the four-wire bush provided.

The Model 6137B, 6139B, 6150 and 6160 keypads are intended for use with the Vista-128FB control unit and are connected by means of the 4-wire bus.

##: When connected to SRRF signal receiver, Model 5882, wireless devices may be used.

Suitable for Grade A local mercantile Burglar Alarm Service when used with a Listed Burglar Alarm Sounding Device/Housing. Depending upon installation application a compatible Listed sounding device enclosure may also be required. As indicated in the Installation Instructions a Listed tamper switch shall be used to protect the control unit's cover and all conduit openings to the control shall be used or blocked. As a result of the attack test results described in File S789, Report dated August 12, 1992 the maximum entry delay time shall not exceed 45 s and maximum exit delay time shall not exceed 60 s. Suitable for safe and vault burglar alarm installations when also used with a shock sensor Listed for protection of sheet metal enclosures and a Listed tamper switch installed on the rear of the control unit.

Suitable for Grade A Police Station Connected Burglar Alarm System Service when the 24 hour test report is enabled, programmed for 24 hour Test Reporting, or can be used with Model 346 polarity reversing relay/voltage booster or Model 7720, or 7620ULF Long Range Radio, or 5140DLM Backup Dialer (Basic Line Security). Suitable for Grade AA (High Line Security) when used in conjunction with Model 445 direct wire transmitter or Model 7920SE Long Range Radio. The digital alarm communicator transmitter shall be programmed for UL installations as stated in the Installation Instructions.

Suitable for Grade C Central Station Service, Grade B Central Station Service when used with a Listed Mercantile Sounding Device. Depending upon the installation application a compatible Listed sounding device enclosure may also be required. Suitable for Grade A Central Station Service when used with Model 7720 Long Range Radio or Model 7620ULF Long Range Radio. One zone of the control panel shall be programmed as a 24-hour zone to supervise the radio unit. Suitable for Grade AA, BB or CC Central Station service when used with the 7920SE Long Range Radio as indicated in the installation instructions. As indicated in the Installation Instructions a Listed tamper switch shall be used to protect the control unit's cover and all conduit openings to the control shall be used or blocked. Suitable for safe and vault burglar alarm installations when also used with a shock sensor Listed for protection of sheet metal enclosures and a Listed tamper switch installed on the rear of the control unit.

The Vista 100 and 128FB Controls can be partitioned into a maximum of 8 areas. The Vista-32FB can only be partitioned into a maximum of 2 areas. All fire zones shall be assigned to partition 1. The manufacturers installation instructions shall be observed for all UL applications of zone partitioning.

Except for the following differences the Vista-32FB is identical to the Vista-128FB. The Vista-32FB:

A) Has reduced software features.

B) The primary transformer is mounted inside the control unit enclosure and is separated from the rest of the control unit wiring by a sheet steel frame.

The Vista-128FBP is identical to the Vista-128FB except for the addition *of the following features: Internet Communication Module, cancel verify, Fire verity, Quick exit, Group bypass, Arm faulted, Stay1, Stay2, Auto stay silent burg, and tamper option each zone.

The Vista-250FBP is identical to the Vista-128FBP except that it supports 16 vista key modules, 250 zones, 250 users, 1000 event log, and 500 vista card holders.

The FA1700C is the First alert version of the Vista-250FBP).

The Vista-250FBPADT is identical to the Vista-250FBP except for ADT defaults and the changes in hardware and software to support the AC communicator module, Model 472491D. The AC Communicator module, Model 472491D, can only be used as a dedicated AC telephone line mode. The Vista-250FBPADT is suitable for used with the Internet Communication Module, Models 7845i, 7845i-ENT and the Premises Cellular Control Channel Transceiver, Model 7845C. The Models 7845i, 7845i-ENT and 7845C device must either be mounted in the control panel cabinet, or within 3 feet of the panel cabinet with wiring routed in conduit.

All commercial fire alarm installations shall comply with the installation requirements contained in NFPA 72 - National Fire Alarm Code. All UL commercial burglar alarm installations shall comply with the installation requirements contained in UL Standard 681, Installation And Classification of Burglar And Holdup Alarm Systems. Each control unit is intended to be used with other separately Listed devices as indicated in the manufacturer's Installation Instructions. Two wire and four wire smoke detectors shall be installed as specified by the control unit's installation instructions. The units are intended for the applications described in Table I.

In order to provide fire protective signaling service, the Model Vista-128FB control units shall be provided with a backup signaling channel by means of the Model 7835CF cellular control channel transceiver, which is connected to the control unit by means of the data communication bus designed for this purpose.

The Model Vista-128FB unit is powered from a Class II limited energy plug-in type transformer and two sealed lead acid batteries provide 24-hour standby capacity.

The system shall be installed in accordance with the Manufacturer's Installation Instructions and the Canadian Electrical Code, Part I.

Model FA1600C is identical to Vista-100 except for model designation.

WIRELESS RECEIVER

WIRELESS INITIATION DEVICES AS NECESSARY

HOEN CT #4

HOEN CT #3

HOEN CT #2

HOEN CT #1

INITIATION CT #4 — P S S S H S

INITIATION CT #3 — P H S H

INITIATION CT #2 — P S S H S

INITIATION CT #1 — P H H S

HONEYWELL VISTA

128 FBP CONTROL PANEL

REMOTE ANNUNCIATOR

HONEYWELL N A C POWER BOOSTER

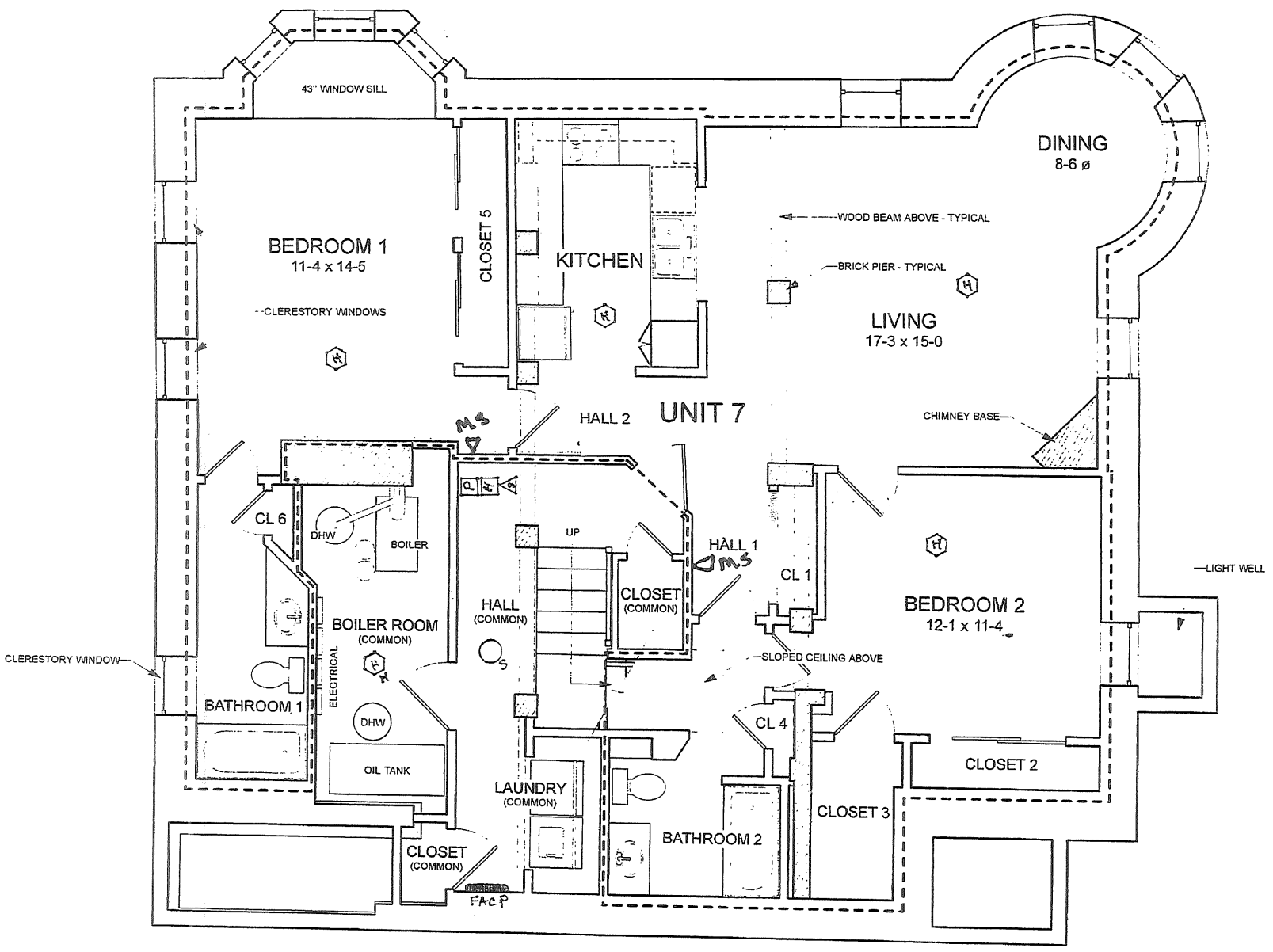
120 VAC

DACT

TELCO 1

TELCO 2

120 VAC



BASEMENT PLAN

Scale: 1/4" = 1'-0"

ZONING REQUIREMENTS

Zone:	R-6 Residential	
Synopsis:	Condominium conversion of an existing 4-story (including basement level), 7-unit apartment building with an existing detached storage building.	
Description	**Requirement**	**Design Specs**
Minimum Lot Size	4,500 sf	6,171 sf
Minimum area per unit	7,800 sf	6,171 sf
Minimum Street Frontage	40 ft	86'-5" +/-
Front Yard	10'	No (Existing Building)
Side Yards	10'	No (Existing Building)
Rear Yard	20'	No (Existing Building)
Maximum Lot Coverage	50%	40.7 %
Footprint - Apartment Building		1,894.27 sf
Footprint - Carriage House		618.38 sf
Minimum Lot Width	50'	83' +/-
Maximum Structure Height	45'	< 45'
Open Space Ratio	20%	29.2 %
Open Space		1,799.70 sf
Parking	0	3

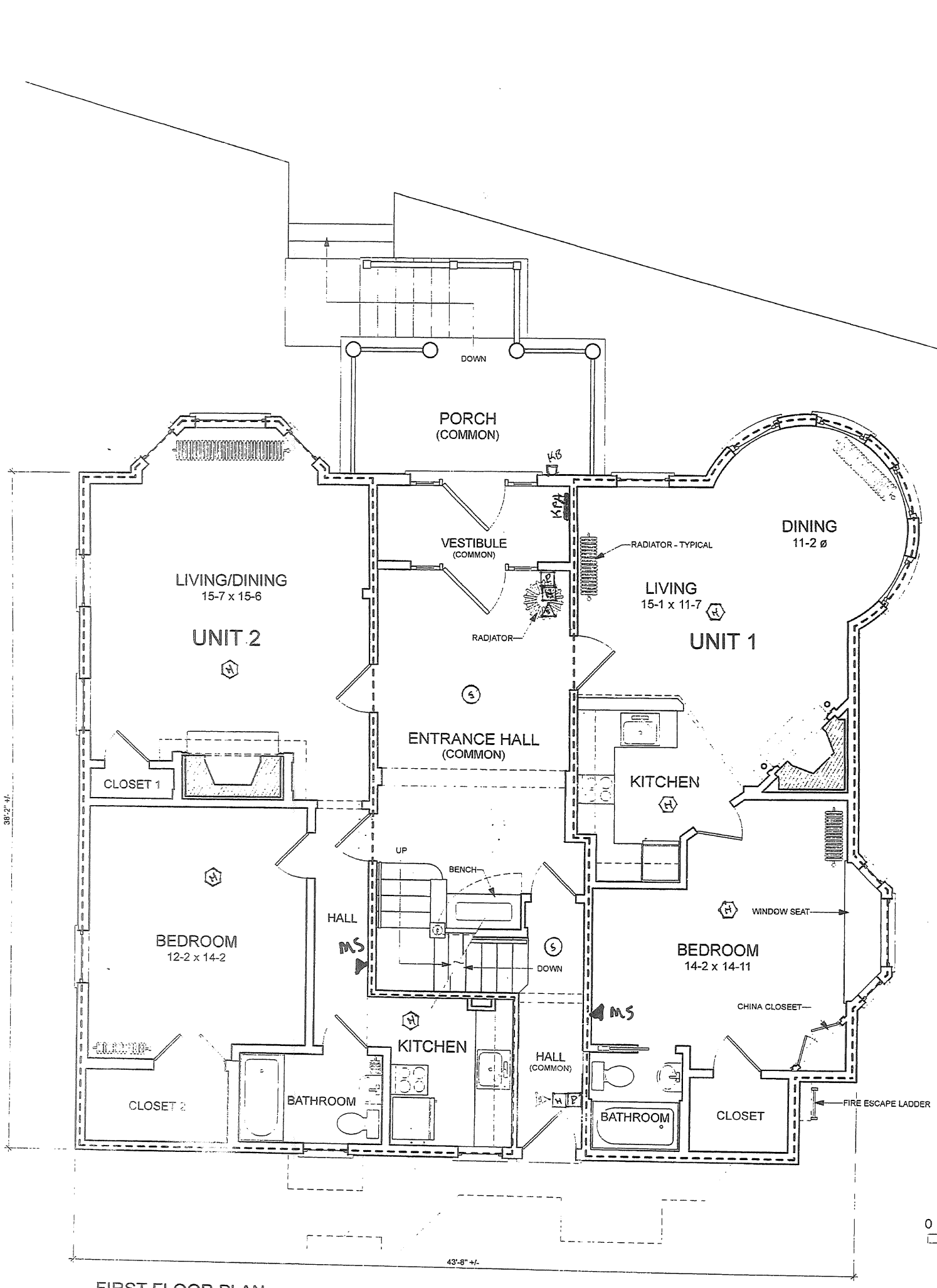
BUILDING AREAS

BUILDING AREA	**6,576 GSF**
00-Basement Level	1,673 GSF
01-First Floor	1,852 GSF
02-Second Floor	1,664 GSF
03-Third Floor	1,388 GSF

(GSF includes Porch. Areas with sloped ceilings less approximately 4'-6" not included.)

DWELLING UNIT AREAS	**5,094 GSF**
UNIT 1	649 GSF
UNIT 2	738 GSF
UNIT 3	618 GSF
UNIT 4	727 GSF
UNIT 5	609 GSF
UNIT 6	595 GSF
UNIT 7	1,158 GSF

(Dwelling Unit Areas are to outside face of enclosing w
7 1/2" maximum) or to centerlines of common walls be
Areas with sloped ceilings less than approximately 4'-6



FIRST FLOOR PLAN
Scale: 1/4" = 1'-0"

an

ls (up to
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not included.)

The Captain's Quarters

CONDOMINIUMS

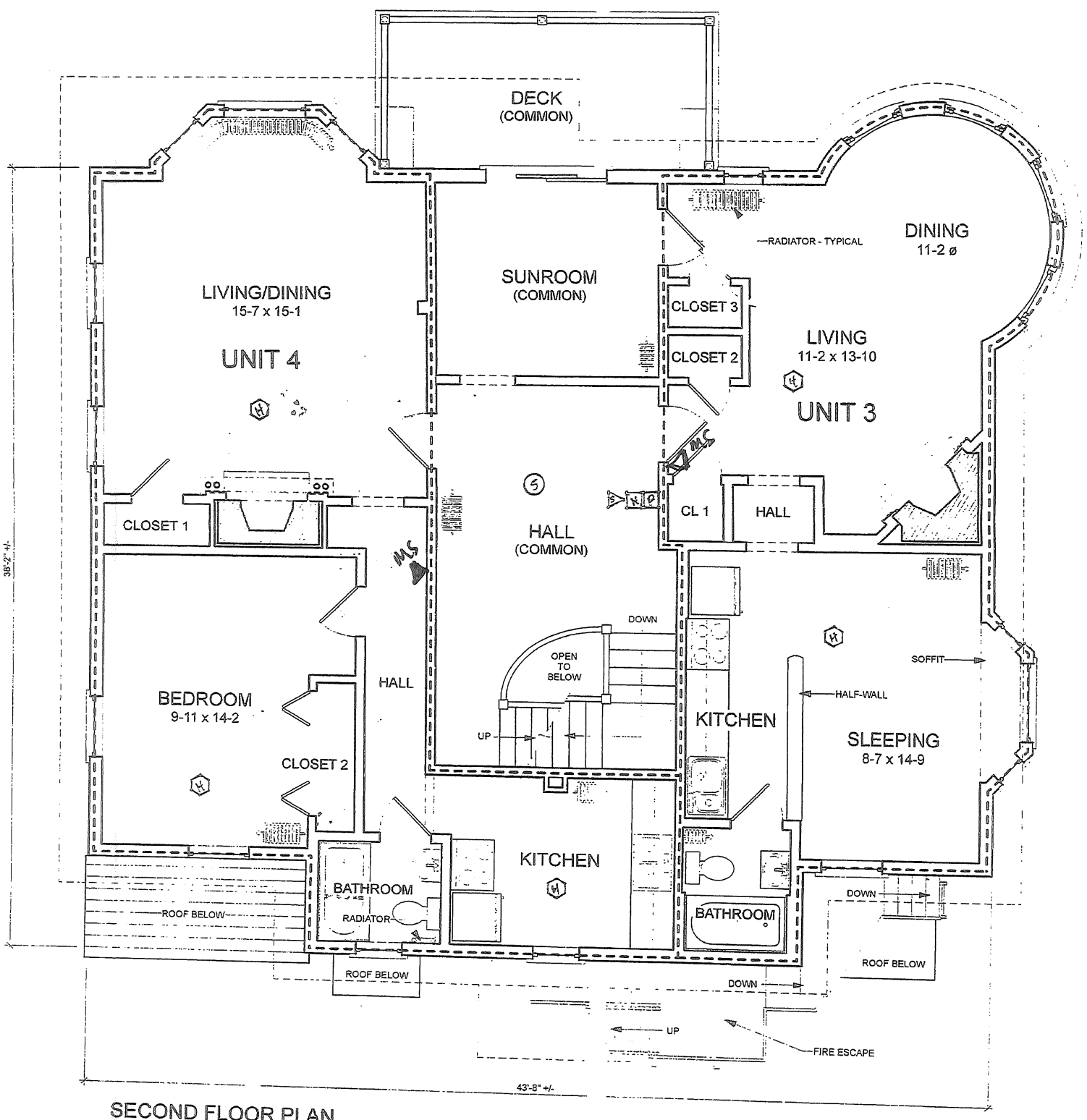
102 EASTERN PROMENADE, PORTLAND, MAINE

Casco Bay Ventures
223 Woodville Road
Falmouth, Maine 04105
(207)797-7752

February 28, 2008 25

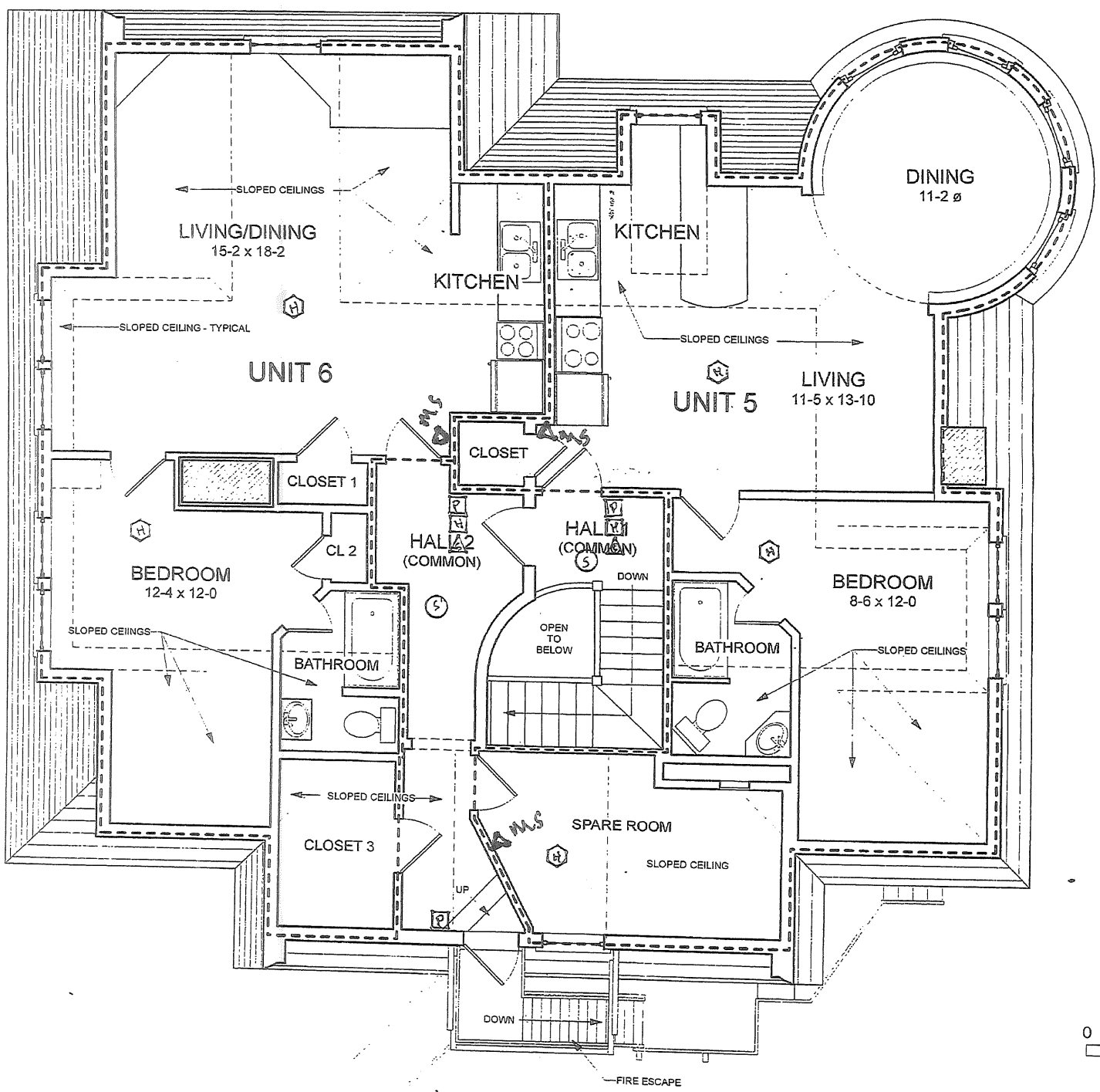
LOWER FLOOR PLANS

1 OF 3



SECOND FLOOR PLAN

Scale: 1/4" = 1'-0"



THIRD FLOOR PLAN
Scale: 1/4" = 1'-0"

The Captain's Quarters

CONDOMINIUMS
102 EASTERN PROMENADE, PORTLAND, MAINE

Casco Bay Ventures
223 Woodville Road
Falmouth, Maine 04105
(207)797-7752

February 28, 2008 25

UPPER FLOOR PLANS

2 OF 3

WIRELESS RECEIVER

WIRELESS INITIATION DEVICES AS NEC

- S — SMOKE DETECTOR
- H — HEAT DETECTOR
- MM — MONITOR MODULE
- HS — HORN STROBE
- MS — MINI HORN
- P — PULL STATION

HORN CT #4

HORN CT #3

HORN CT #2

HORN CT #1

INITIATION CT #4 — P S S S H S

INITIATION CT #3 — P H S H

INITIATION CT #2 — P S S H S

INITIATION CT #1 — P H H S

HONEYWELL VISTA

128 FBP CONTROL PANEL

NAC POWER SUPPLY

120 VAC

DACT

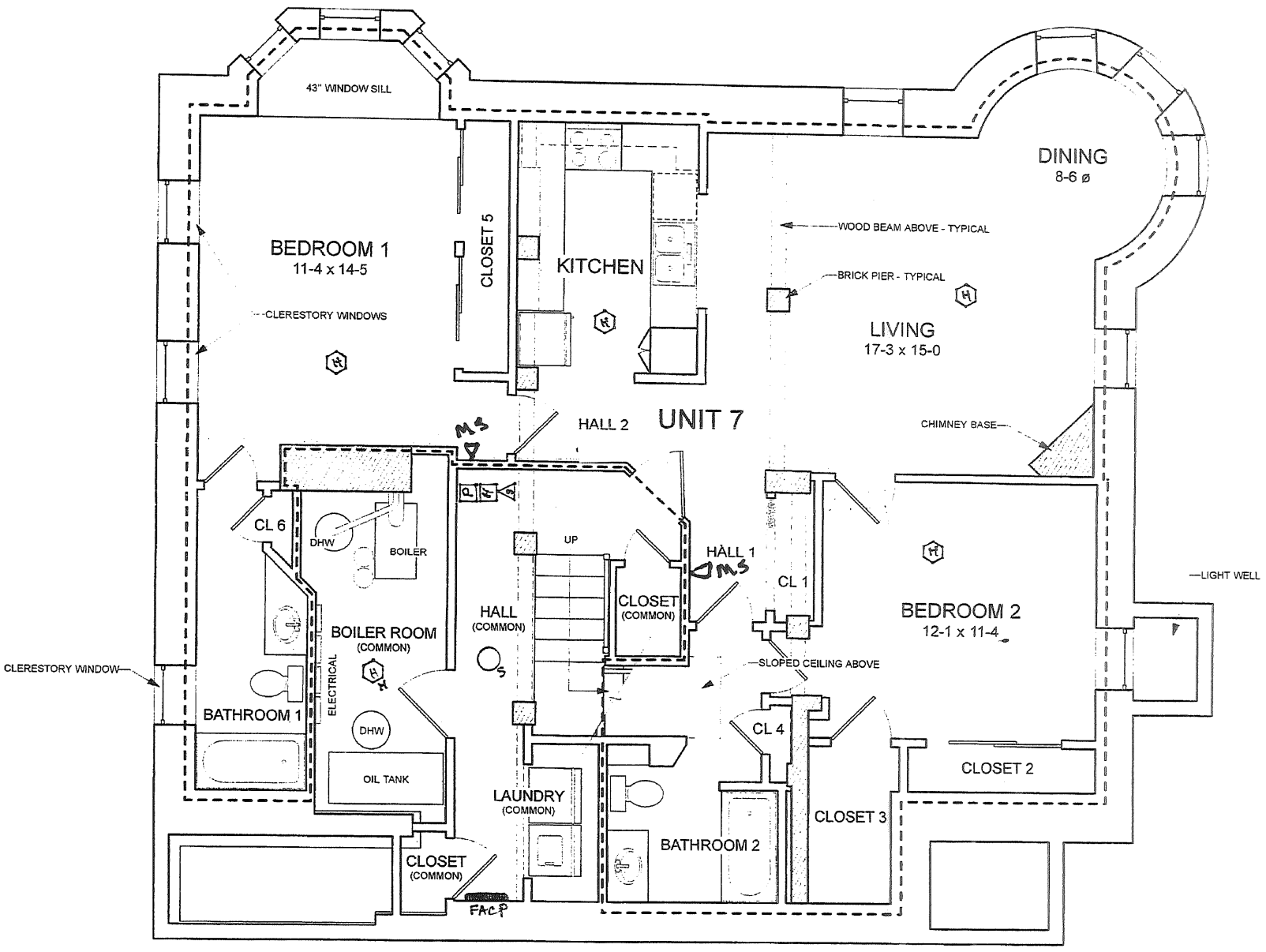
TELCO 1

TELCO 2

120 VAC

REMOTE ANNUNCIATOR

102 EASTERN PROMENADE
PORTLAND ME



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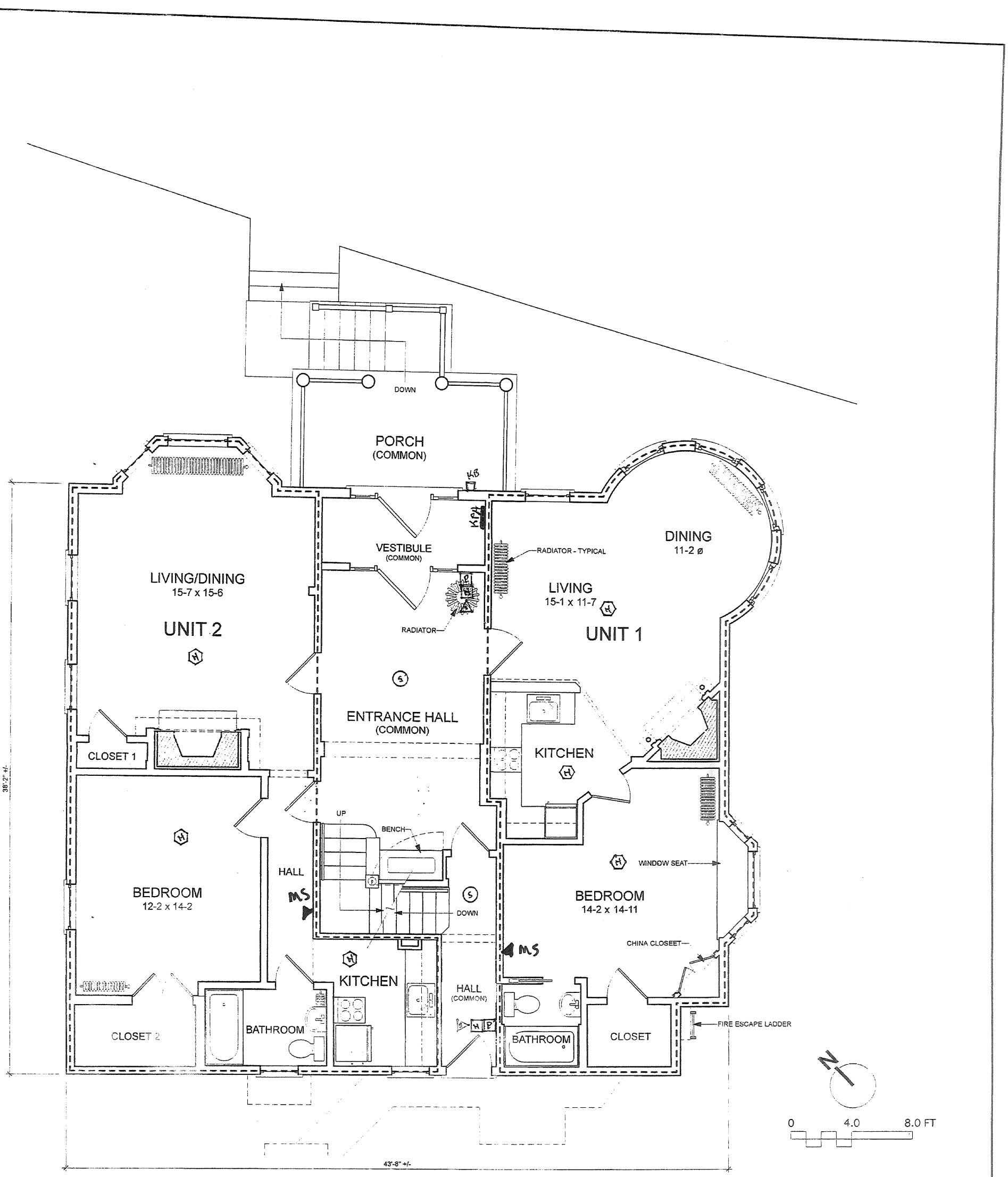

FIRST FLOOR PLAN
Scale: 1/4" = 1'-0"

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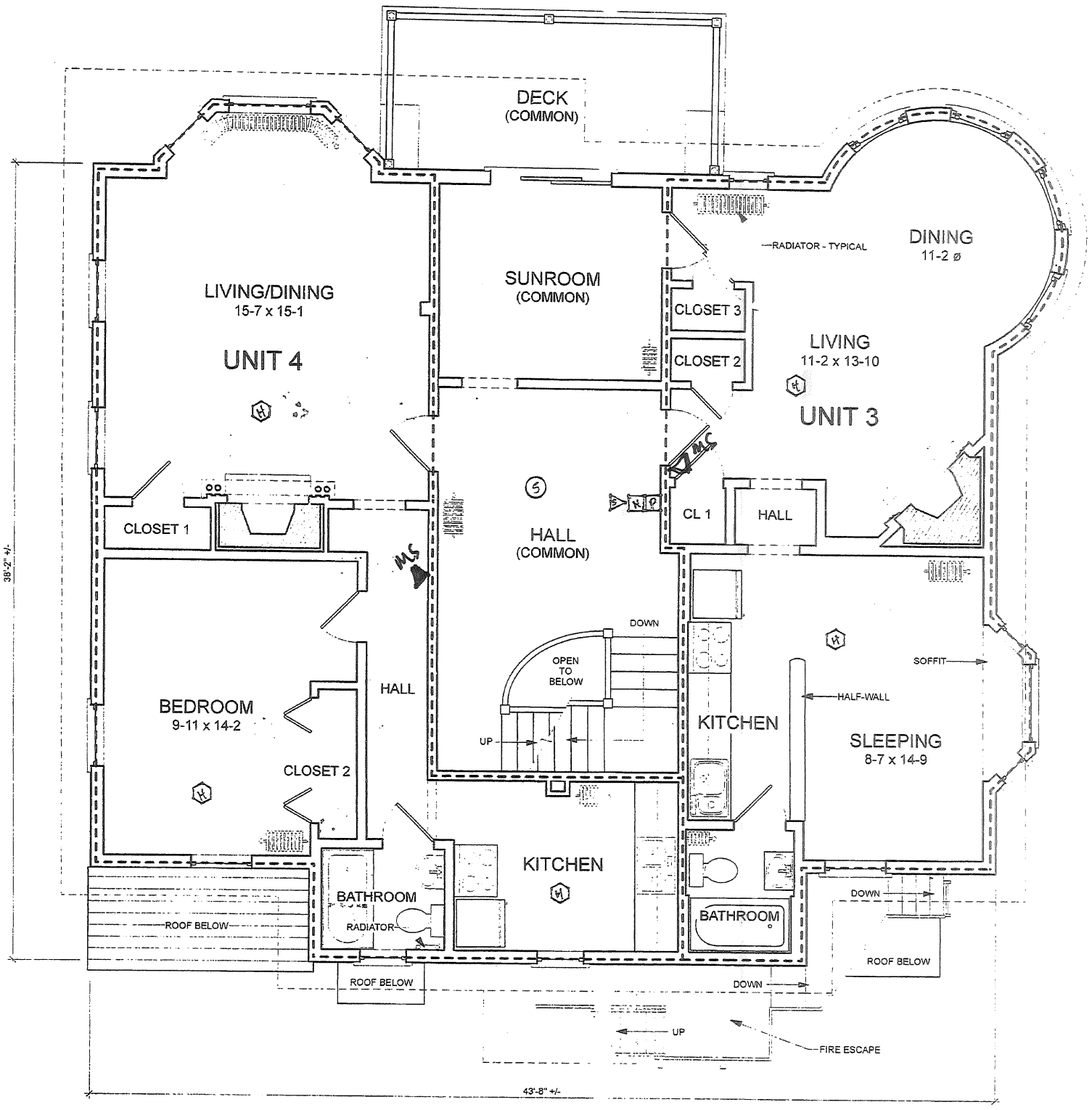
The Captain's Quarters

CONDOMINIUMS

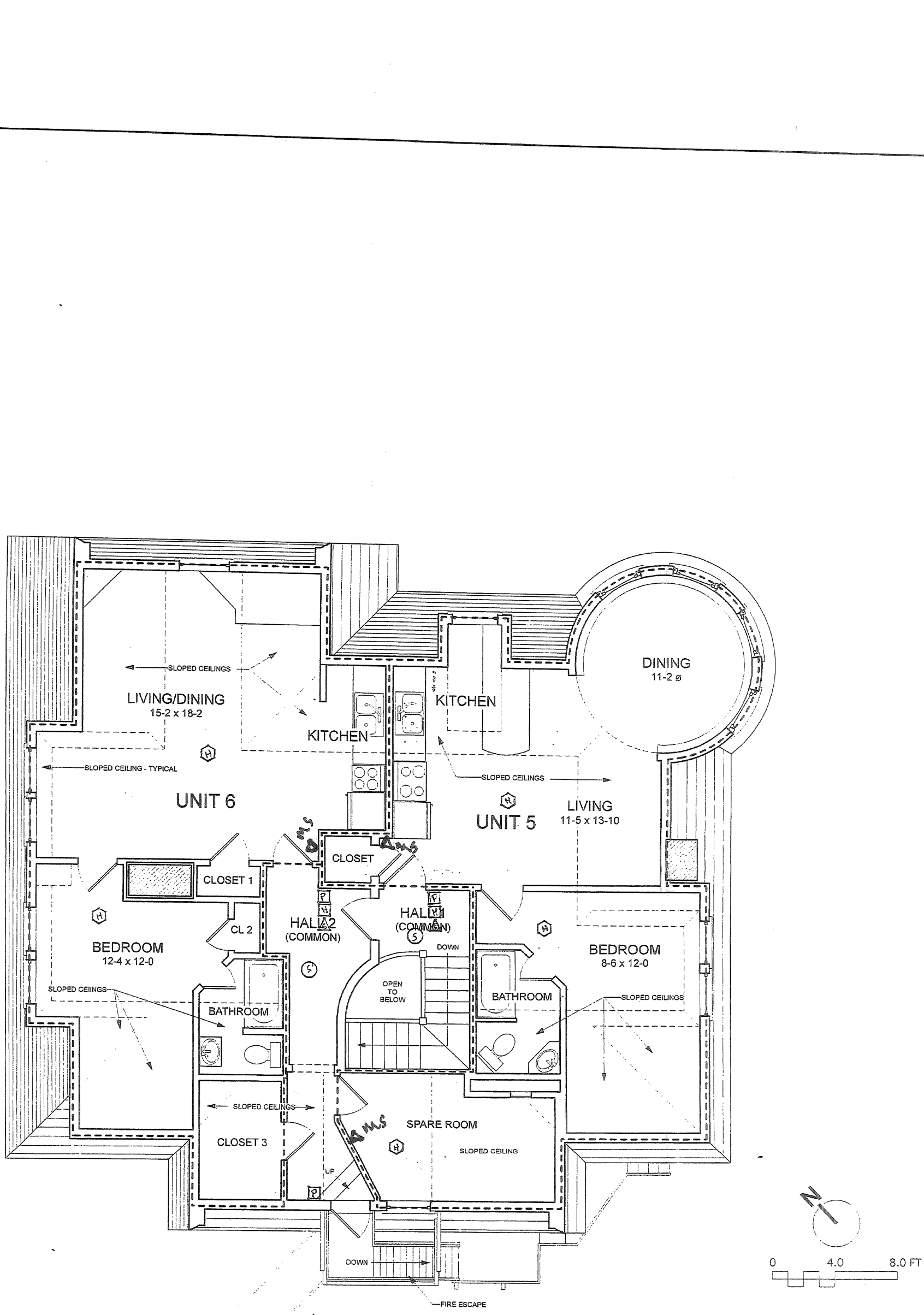
102 EASTERN PROMENADE, PORTLAND, MAINE

Casco Bay Ventures 223 Woodville Road Falmouth, Maine 04105 (207)797-7752	February 28, 2008 25
LOWER FLOOR PLANS	1 OF 3



SECOND FLOOR PLAN

Scale: 1/4" = 1'-0"



THIRD FLOOR PLAN
Scale: 1/4" = 1'-0"

The Captain's Quarters

CONDOMINIUMS
102 EASTERN PROMENADE, PORTLAND, MAINE

Casco Bay Ventures 223 Woodville Road Falmouth, Maine 04105 (207)797-7752	February 28, 2008 25
UPPER FLOOR PLANS	2 OF 3