LINDSAY ELECTI
CONTRACTORS

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Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 05/05/14

Cumberland Farms
512 Woodford Street
Portland, ME.

Fire Protection Construction Documents

In accordance with 780 CMR 903.1.1and the City Portland Fire Department Alarm Standard, the following information is presented for the retail structure:

1. a. Basis (methodology) of design for the protection of the occupancy and hazards for compliance with 780 CMR 9 and NFPA 72 2013 Edition, as referenced in the Building Code, in the form of a narrative report.

a). This is an existing building with a proposed use Group of "M" Mercantile.
b). The total square footage of the building is 4,501 square feet.
c). The total height is one (1) story, approximately 14' in height.
d). The building has a total of one (1) floor above grade.
e). The type of occupancy within the building will be "M" mercantile.
f). The type of construction in "5B" unprotected.
g). There will be no hazardous materials used or stored inside the building.
h). The building will not include any high piled storage.

1b. Sequence of operation of all fire protection systems and operation in the form of narrative report.

- The fire alarm system shall operate automatically to sound all interior building, evacuation alarms, and flash all alarm strobes upon activities from pull station, smoke detectors, or duct-type detectors.
- All HVAC equipment shall shutdown upon any alarm condition.
- Upon invitation of any manual or automatic alarm device, the Fire Department shall be notified via the auto dialer and leased line/ Central Station connection.

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1.c. Testing criteria to be used for final system acceptance in the form of a narra

a). Pre and final tests/ warranty:

1. The system shall be fully tested by a UL Certified Testing Company, in accordance with UL guidelines and NFPA standards. Each and every device shall be tested.

2. A copy of the final test report shall be submitted indicating proper functioning of the system and conformance to the specifications. The test shall be performed by UL certified and factory-trained qualified technicians. Each and every device shall be tested and stand-alone operation of remote panels shall be verified.

3. Manufacturer shall guarantee all system equipment for a period of one (1) year from the date of Final Acceptance of the system.

4. The contractor shall guarantee all raceways and wiring to be free form inherent mechanical or electrical defects for one (1) year from the date of the final acceptance of the system.

5. As part of the testing portion of the system the contractor shall perform the following tests:

a. Pre Test:
    1) Required Participants:
        a) Owner's Representative
        b) The electrical contractor
    2) Test Procedure
        a) Every device is tested (smoke detectors tested with smoke, pull stations pulled, horns and strobes set off, etc.)

b. Final acceptance test:
    1) Submission to City of Portland Fire Department before Final Acceptance test. The following paper needs to be submitted to the fire department prior to final testing.
        a) Affidavits by designer. A letter certifying system has been installed according to plans and specifications and has witnessed that it is 100% operational and ready for final testing.
        b) Affidavits by the electrical contractor. Letter certifying system is complete.
        c) The Fire Alarm Manufacture. Certification of complete system.
        d) Copy of the Manufacture's program notes.
        e) Copy of the stamped drawings (as- builts if available).

    2) Final Acceptance Test:
        a) Test system as per City of Portland Fire Department direction.

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Inspections Division
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Note: Test should be scheduled only after the system is 100% pre-teste
designer. Allow extra time for scheduling of the fire department. If accep
issues a letter accepting the building to Building Inspector.

b) Required participants:
1) Building Inspector
2) City of Portland Fire Department
3) Owner's representative
4) General Contractor
5) Electrical Contractor

Note: This test is required for a "Certificate of Occupancy" by the building inspector.

c) Fire Alarm Test and Inspection Contract:
Each contractor shall include as part of their base bid, the cost of one (1) year test and inspection contract. This contract shall provide for quarterly tests according to UL, NFPA, and Local Requirements. Upon its expiration, the contract shall be renewable by the building owner.

d) Training:
The contractor shall provide training, during normal business hours, to instruct the owner's designated personnel and Fire Department Response team on the operation of the system.

2) Building and site access for firefighting and/or rescue vehicles and personnel. Emergency response vehicles and personnel can access the building directly by approaching from two sides of the building on paved parking areas.

3) Fire Hydrants location and water-supply information.
a) Existing fire hydrant
b) Water supply information- not available
Source:
Test date:
Static Pressure:
Residual Pressure:
Pitot:
Flow:
Location:

4) Type/ description and design layout of the automatic sprinkler system. The building does not require an automatic sprinkler system.

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5. Automatic Sprinkler system control equipment location. The building
automatic sprinkler system.

6. Type/ description and design layout of the automatic standpipe syste
not require an automatic sprinkler system.

7. Standpipe system hose valve(s) type and location. The building does not require a standpipe system.

8. Fire Department Siamese connection type(s) and location. The building does not require a Siamese connection.

9. Type/ description and design layout of the fire protective signaling system(s). Building occupant notification of fire alarm is accomplished via new synchronized audio/visual (horn/light) appliances. These appliances will sound automatically based on an alarm condition initated by smoke/heat detectors, or manual pull stations.

10. Fire protective signaling system(s) control equipment and remote annunciator location. The fire alarm control panel is to be located in the back electric room. An annunciator will be located at the front entrance to the building.

11. Type/ description and design of the smoke control or exhaust system. The building does not require a smoke control or exhaust system.

12. Smoke control and exhaust system(s) control equipment location. The building does not require a smoke control or exhaust system.

13. Building life safety system features (auxiliary functions) required to be integrated as part of the fire protective signaling system(s). An alarm condition will notify the Auburn Fire Department via a central station connection.

14. Type/ description and design layout of the fire extinguishing system(s). The building will not include any fire extinguishing systems.

15. Fire extinguishing system(s) control equipment location. The building will not include any fire extinguishing systems.

16. Fire Protection system(s) equipment room location. The building does not require a sprinkler system.

17. Fire protection system(s) equipment identification and operation signs. The building does not require a sprinkler system.

18. Fire protection system(s) alarm/ supervisory signal transmission method and location. The Portland Fire Department will be notified of all alarm and trouble (supervisory) conditions via the Central Station connection.