

Waltham Fire Dept.
Fire Prevention Bureau
175 Lexington Street
Waltham, MA 02452

2/23/2022

RE: 21 Newton Street, 40B Comprehensive Permit Application response to Fire Dept.

Dear Deputy Chief Richard Grant:

Thank you for your comments submitted to Dylan Stevens, Stantec Associate Landscape Engineer, dated February 14th, 2022, regarding 2Life Community's Comprehensive Permit application for the proposed Leland House at 21 Newton Street in Waltham. This letter serves as a response to comments and concerns raised:

After reviewing the request to provide a second Fire Department connection near the rear of the building with Petersen Engineering, we have confirmed that we are able to accommodate this in the design. Additional comments regarding during construction and permanent sprinkler and fire alarm systems are noted and will be integrated into the documents to be submitted with a building permit application. The general contractor on the project, Dellbrook I JKS, completes NFPA 241 Fire Safety plans on all projects and works with cities or towns in addressing their specific concerns. Together the team intends on following the safety measures described in the letter and listed below:

- A double interlock pre-action sprinkler system installed as the FIRST MEP/FP Trade on each floor during construction.

- The sprinkler system will be connected to a combination of standpipe sprinkler riser in the stairwells, including the installation of the floor control valve assembly (Control Valves, Check Valves, Inspector's Test, and Drain & Flow Switch).
- Adequate air supply will be provided to supervise the sprinkler systems piping on each floor.
- The sprinkler room will be labeled and will house the air compressor and a plan set & Knox Box/Lock for access.
- A "LOW AIR" supervisory alarm will be provided to supervise the integrity of the system.
- The control valve (tamper switches) and low air alarms will be monitored by a temporary fire alarm system that reports to a, UL Listed, monitoring company that will contact the Fire Department in the event of an alarm.
- One directly accessible double interlocked pre-action valve will be located in the water/sprinkler room.
- Heat detectors will be installed as a secondary source to release the pre-action valve.
- After heat from a fire activates a sprinkler head, the alarm condition will be annunciated on the temporary fire alarm control panel and signal will be sent to central station.
- Once the secondary releasing mechanism trips (via heat detection signal), water will be introduced into the system releasing the pre-action valve, activating the sprinkler system and Central Station will be notified. The Central Station will immediately notify the City of Waltham Fire Department.
- The system will remain in service until it is deemed safe to remove and it will be converted to a wet system as designed.
- The contractor will notify the Fire Department if fire protection systems are impaired during construction and reasonable efforts will be made to have the systems back in operation as soon as possible.
- The piping installed for the construction sprinkler system may be designed to stay in place, and only appropriate valves changes required to convert to a fully wet sprinkler system.

We look forward to meeting with the department to review more detailed fire protection design elements during the Construction documents phase. Please contact either me or Zoe Weinrobe (617-912-8406, zweinrobe@2lifecommunities.org) with questions or if you need any additional information that will assist in your review of this important project.

Best regards,

A handwritten signature in black ink, appearing to read 'Laura Homich', with a stylized flourish at the end.

Laura Homich AIA, LEED AP BD+C

Principal

Cc: Waltham Zoning Board of Appeals (ZBA)

Dylan Stevens, Stantec

Ed Sople, Dellbrook IJKS

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