

**DEVELOPMENT SERVICES**

**Residential Plan Review**

September 07, 2023

FOGEL-ANDERSON CONSTRUCTION CO  
1212 E 8TH ST  
KANSAS CITY, MO 64106  
(816) 842-6914

Permit No: PRCOM20231814  
Plan Name: 2210  
Project Address: 500 NE TOWN CENTRE DR, LEES SUMMIT, MO 640642201 NE TOWN CENTRE BLVD, LEES SUMMIT, MO 640642200 NE INDEPENDENCE AVE, LEES SUMMIT, MO 640642251 NE TOWN CENTRE BLVD, LEES SUMMIT, MO 64064  
Parcel Number: 52500020801100000525000201011000005250002170000000052500020301600000  
Location: LEES SUMMIT TOWN CENTRE LOT 1 & 2 LOT 2  
Type of Work: NEW SHELL BUILDING  
Occupancy Group: STORAGE, MODERATE HAZARD  
Description: NEW SHELL FOR FUTURE WAREHOUSING, DISTRIBUTION, AND/OR SERVICE INDUSTRIES

***Revisions Required***

***The following is a list of requirements from the City of Lee's Summit that have not been satisfactorily addressed in the plans and specifications. Please address the comments as requested and upload the revised documents and/or additional information to the application through the online portal. Please contact the Development Services Department with any questions you may have.***

Development Services Department (816) 969-1200

**Fire Plan Review**

**Reviewed By: Jim Eden**

**Approved with Conditions**

3. 2018 IFC 907.1.1- Construction documents. Construction documents for fire alarm systems shall be submitted for review and approval prior to system installation. Construction documents shall include, but not be limited to, all of the following: 1. A floor plan which indicates the use of all rooms. 2. Locations of alarm-initiating and notification appliances. 3. Alarm control and trouble signaling equipment. 4. Annunciation. 5. Power connection. 6. Battery calculations. 7. Conductor type and sizes. 8. Voltage drop calculations. 9. Manufacturers, model numbers and listing information for equipment, devices and materials. 10. Details of ceiling height and construction. 11. The interface of fire safety control functions.

Action required- Provide shop drawings for review and approval.

5. 2018 IFC 901.2- Construction documents. The fire code official shall have the authority to require construction documents and calculations for all fire protection systems and to require permits be issued for the installation, rehabilitation or modification of any fire protection system. Construction documents for fire protection systems shall be submitted for review and approval prior to system installation.

Action required- 1. Provide an overall fire protection plan for the shell building. Smoke venting is required unless the building is protected by an ESFR sprinkler system. Class 1 standpipe connections are required at all doorways.

2. Provide sprinkler system shop drawings for review and approval.

6. 3201.3 Construction documents. At the time of building permit application for new structures designed to accommodate high-piled storage or for requesting a change of occupancy/use, and at the time of application for a storage permit, plans and specifications shall be submitted for review and approval. In addition to the information required by the International Building Code, the storage permit submittal shall include the information specified in this section. The onstruction documents shall include all of the following:

1. Floor plan of the building showing locations and dimensions of high-piled storage areas.
2. Usable storage height for each storage area.
3. Number of tiers within each rack, if applicable.
4. Commodity clearance between top of storage and the sprinkler deflector for each storage arrangement.
5. Aisle dimensions between each storage array.
6. Maximum pile volume for each storage array.
7. Location and classification of commodities in accordance with Section 3203.
8. Location of commodities that are banded or encapsulated.
9. Location of required fire department access doors.
10. Type of fire suppression and fire detection systems.
11. Location of valves controlling the water supply of ceiling and in-rack sprinklers.
12. Type, location and specifications of smoke removal and curtain board systems.
13. Dimension and location of transverse and longitudinal flue spaces.
14. Additional information regarding required design features, commodities, storage arrangement and fire protection features within the high-piled storage area shall be provided at the time of permit, where required by the fire code official.

Action required- The building is being reviewed as a shell only. Submit plans as indicated for rack storage systems. Provide access/egress for high piled/rack storage areas in accordance with this section.

7. A redundant power supply for the fire pump may be needed. Confirm with Everage on the reliability of the power supply for the area (see exception #2).

NFPA 20- Section 9.3.2 \* Other Sources.

Except for an arrangement described in 9.3.3, at least one alternate source of power shall be provided where the normal source is not reliable.

A reliable power source possesses the following characteristics:

(1)

The source power plant has not experienced any shutdowns longer than 10 continuous hours in the year prior to plan submittal. NFPA 25 requires special undertakings (i.e., fire watches) when a water-based fire protection system is taken out of service for longer than 10 hours. If the normal source power plant has been intentionally shut down for longer than 10

hours in the past, it is reasonable to require a backup source of power.

(2)

Power outages have not routinely been experienced in the area of the protected facility caused by failures in generation or transmission. This standard is not intended to require that the normal source of power be infallible to deem the power reliable. NFPA 20 does not intend to require a backup source of power for every installation using an electric motor-driven fire pump. Note that should the normal source of power fail in a rare event, the impairment procedures of NFPA 25 could be followed to mitigate the fire risk. If a fire does occur during the power loss, the fire protection system could be supplied through the fire department connection.

(3)

The normal source of power is not supplied by overhead conductors outside the protected facility. Fire departments responding to an incident at the protected facility will not operate aerial apparatus near live overhead power lines, without exception. A backup source of power is required in case this scenario occurs and the normal source of power must be shut off. Additionally, many utility providers will remove power to the protected facility by physically cutting the overhead conductors. If the normal source of power is provided by overhead conductors, which will not be identified, the utility provider could mistakenly cut the overhead conductor supplying the fire pump.

(4)

Only the disconnect switches and overcurrent protection devices permitted by 9.2.3 are installed in the normal source of power. Power disconnection and activated overcurrent protection should occur only in the fire pump controller. The provisions of 9.2.2 for the disconnect switch and overcurrent protection essentially require disconnection and overcurrent protection to occur in the fire pump controller. If unanticipated disconnect switches or overcurrent protection devices are installed in the normal source of power that do not meet the requirements of 9.2.2, the normal source of power must be considered not reliable and a backup source of power is necessary.

#### 8. 510.1 Emergency responder radio coverage in new buildings.

New buildings shall have approved radio coverage for emergency responders within the building based on the existing coverage levels of the public safety communication systems utilized by the jurisdiction, measured at the exterior of the building. This section shall not require improvement of the existing public safety communication systems.

Exceptions:

1. Where approved by the building official and the fire code official, a wired communication system in accordance with Section 907.2.12.2 shall be permitted to be installed or maintained instead of an approved radio coverage system.
2. Where it is determined by the fire code official that the radio coverage system is not needed.
3. In facilities where emergency responder radio coverage is required and such systems, components or equipment required could have a negative impact on the normal operations of that facility, the fire code official shall have the authority to accept an automatically activated emergency responder radio coverage system.

Complete a study after the building is constructed to determine if

#### **Fire Plan Review**

**Reviewed By: Jim Eden**

**Rejected**

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Action required- 1. Provide an overall fire protection plan for the shell building. Smoke venting is required unless the building is protected by an ESFR sprinkler system. Class 1 standpipe connections are required at all doorways.

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the normal operations of that facility, the fire code official shall have the authority to accept an automatically activated emergency responder radio coverage system.

Complete a study after the building is constructed to determine if a bi-directional amplifier is needed.

6. Locate the sprinkler manifold in the pump room.

***The review conducted by the City of Lee's Summit Development Services Department shall not be construed as a structural review of the project.***

<b>Residential Area:</b>			
<b>Roofing Material</b>		<b>Number of Bathrooms</b>	
<b>Number of Bedrooms</b>		<b>Number of Stories</b>	<b>1</b>
<b>Number of Living Units</b>		<b>Total Living Area</b>	<b>249050</b>