

CODES ADMINISTRATION

PLAN REVIEW CONDITIONS

October 16, 2018

KEVIN HIGDON CONSTRUCTION, LLC
P O BOX 847
LEES SUMMIT, MO 64063

Permit No: PRCOM20183479
Project Title: KEVIN HIGDON CONSTRUCTION
Project Address: 1450 SE BROADWAY DR, LEES SUMMIT, MO 64081
Parcel Number: 6172012460000000
Location / Legal: NEWBERRY LANDINGS FIRST PLAT---LOT 293
Description:
Type of Work: NEW COMMERCIAL
Occupancy Group: STORAGE, MODERATE HAZARD
Description: WAREHOUSE WITH OFFICE

Revisions Required

One or more departments have not approved the permit and 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 provide three (3) copies of any revised sheets and/or additional information. Please contact the appropriate department regarding clarification of comments.

Development Services Department (816) 969-1200

Fire Department (816) 969-1300

Licensed Contractors

Reviewed By: Joe Frogge

Approved

Building Plan Review

Reviewed By: Joe Frogge

Rejected

1. The building permit for this project can not be issued until the Codes Administration Department has received the approved Final Development Plan from the Planning and Development Department.

Action required: Comment is for informational purposes.

2. 2012 IBC 1004.1.2 - Areas without fixed seating. The number of occupants shall be computed at the rate of one occupant per unit of area as described in Table 1004.1.2. For areas without fixed seating, the occupant load shall not be less than that number determined by dividing the floor area under consideration by the occupant load factor assigned to the function of the space as set forth in Table 1004.1.2. Where an intended function is not listed in Table 1004.1.2, the building official shall establish a function based on a listed function that most nearly resembles the intended function.

Action required: Update occupant load calculations. Numbers to be rounded up when not whole. (32 total in this case)

3. All plans submitted for review on or after January 1, 2014 shall be designed to the requirements of the 2012 International Building Code, 2012 International Mechanical Code, 2012 International Plumbing Code, 2012 International Fuel Gas Code, 2012 International Fire Code, 2011 National Electric Code and the ANSI A117.1-2009 as amended and adopted by the City of Lee's Summit.

CODES ADMINISTRATION

Action required: Update plans to depict adopted accessibility code which is 2009-ICC/ANSI A117.1

4. A code analysis shall be provided which includes but is not limited to occupancy type, occupant load, construction type, actual area, height and floors, allowable area, height and floors, and the codes to which the project is designed.

Action required: Consolidate and update code analyses. Sheet 1 conflicts with Sheet 5. Whether this building is to be S1 or S2 affects many aspects of our review which may lead to future plan review comments.

5. Copies of the engineered building package was not provided at the time of permit application.

Action required: Provide pre-engineered building package or request deferral.

6. Not enough information provided to complete review.

Action required: Complete MEP designs. (given scarcity of design information we withhold the right to add plan review comments in the future)

7. 2012 IMC 403.2 Outdoor air required. The minimum outdoor airflow rate shall be determined in accordance with Section 403.3. Ventilation supply systems shall be designed to deliver the required rate of outdoor airflow to the breathing zone within each occupiable space.

Action required: Revise drawings to show outside air calculations as well as method of delivery.

8. 2012 IBC 1809.5 Frost protection. Except where otherwise protected from frost, foundations and other permanent supports of buildings and structures shall be protected from frost by one or more of the following methods:

1. Extending below the frost line of the locality;
2. Constructing in accordance with ASCE 32; or
3. Erecting on solid rock.

(see code section for exceptions)

Shallow foundations shall not bear on frozen soil unless such frozen condition is of a permanent character.

Action required: Retaining wall footings must be protected from frost. (currently at same elevation as dock ramp.)

9. ICC A117.1-2009 604.3.1 – Clearance width. Clearance around a water closet shall be 60 inches minimum in width, measured perpendicular from the sidewall.

Action required: Revise design to comply. (urinals may not intrude into clearance width)

10. 2012 IBC 1210.3.2 – Urinal partitions. Each urinal utilized by the public or employees shall occupy a separate area with walls or partitions to provide privacy. The walls or partitions shall begin at a height not more than 12 inches from and extend not less than 60 inches above the finished floor surface. The walls or partitions shall extend from the wall surface at each side of the urinal not less than 18 inches or to a point not less than 6 inches beyond the outermost front lip of the urinal measured from the finished back wall surface, whichever is greater. (See code section for possible exceptions.)

Action required: Provide urinal partitions.

11. 2012 IBC 1109.4 – Kitchens and kitchenettes. Where kitchens and kitchenettes are provided in accessible spaces or rooms, they shall be accessible.

CODES ADMINISTRATION

Action required: Specify compliant sink and counter heights in break room. (maximum 34" high)

12. 2012 IBC 1210.2.2 – Walls and partitions. Walls and partitions with 2 feet of service sinks, urinals and water closets shall have a smooth, hard, nonabsorbent surface, to a height of not less than 4 feet above the floor, and except for structural elements, the materials used in such walls shall be of a type that is not adversely affected by moisture. (See code section for possible exceptions.)

Action required: Specify compliant wall finish materials at restrooms and mop sink.

13. 2011 NEC 210.8 (B) Other Than Dwelling Units. All 125-volt, single-phase, 15- and 20-ampere receptacles installed in the locations specified in 210.8(B)(1) through (8) shall have ground-fault circuit-interrupter protection for personnel.

(1) Bathrooms

(2) Kitchens

(3) Rooftops

(4) Outdoors

(5) Sinks - where receptacles are installed within 6 feet of the outside edge of the sink.

(6) Indoor wet locations

(7) Locker rooms with associated showering facilities

(8) Garages, service bays, and similar areas where electrical diagnostic equipment, electrical hand tools, or portable lighting equipment are to be used.

(refer to code for exceptions)

Action required: Modify drawings to show that all receptacles within 6' of a sink will be GFCI protected.

14. 2012 IBC 1006.3 - Emergency power for illumination. The power supply for means of egress illumination shall normally be provided by the premises' electrical supply. In the event of power supply illumination all of the following areas: 1. Aisles and unenclosed egress stairways in rooms and spaces that required two or more means of egress. 2. Corridors, interior exit stairways and ramps and exit passageways in buildings required to have two or more exits. 3. Exterior egress components at other than their levels of exit discharge until exit discharge is accomplished for buildings required to have two or more exits. 4. Interior exit discharge elements, as permitted in Section 1027.1, in buildings required to have two or more exits. 5. Exterior landings as required by Section 1008.1.6 for exit discharge doorways in buildings required to have two or more exits. The emergency power system shall provide power for duration of not less than 90 minutes and shall consist of storage batteries, unit equipment or an on-site generator. The installation of the emergency power system shall be in accordance with Section 2702.

Action required: Provide emergency lighting at exterior side of exit doors.

15. 2012 IBC 1607.3 Uniform live loads. The live loads used in the design of buildings and other structures shall be the maximum loads expected by the intended use or occupancy but shall in no case be less than the minimum uniformly distributed live loads given in Table 1607.1.

Action required: List appropriate live load at mezzanine and redesign floor accordingly. (minimum 125psf if usable mezzanine or minimum 60psf if equipment platform only)

16. 2012 IBC 505.3.3 Guards. Equipment platforms shall have guards where required by Section 1013.2.

Action required: Provide design for guard rails.

CODES ADMINISTRATION

17. Unified Development Ordinance Article 7, Section 7.180.F

Ground mounted equipment – Ground mounted equipment shall be totally screened from view by landscaping or masonry wall up to a height of the units to be screened.

Action required: Make needed corrections to drawings that provide details as to how mechanical equipment will be screened per referenced UDO section. (assuming that there will be at least 1 condensing unit)

18. 2011 NEC 210.63 Heating, Air-Conditioning, and Refrigeration Equipment Outlet. A 125-volt, single-phase, 15- or 20-ampere-rated receptacle outlet shall be installed at an accessible location for the servicing of heating, air-conditioning, and refrigeration equipment. The receptacle shall be located on the same level and within 25 feet of the heating, air-conditioning, and refrigeration equipment. The receptacle outlet shall not be connected to the load side of the equipment disconnecting means.

Action required: Provide compliant receptacle at condensing unit.

Fire Plan Review

Reviewed By: Joe Dir

Rejected

1. 2012 IFC 1004.3- Posting of occupant load. Every room or space that is an assembly occupancy shall have the occupant load of the room or space posted in a conspicuous place, near the main exit or exit access doorway from the room or space. Posted signs shall be of an approved legible permanent design and shall be maintained by the owner or authorized agent. ACTION REQUIRED: Provide a occupant load figures for office area and warehouse area

2. 2012 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:(Information purposes)

(alarm system required by table 3206.2) Have the fire alarm system contractor provide PE stamped shop drawings of the fire alarm system to be installed

3. 2012 IFC 503.1.1 Buildings and facilities. Approved fire apparatus access roads shall be provided for every facility, building or portion of a building hereafter constructed or moved into or within the jurisdiction. The fire apparatus access road shall comply with the requirements of this section and shall extend to within 150 feet (45 720 mm) of all portions of the facility and all portions of the exterior walls of the first story of the building as measured by an approved route around the exterior of the building or facility. Exception: The fire code official is authorized to increase the dimension of 150 feet (45,720 mm) where: 1.The building is equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3. 2. Fire apparatus access roads cannot be installed because of location on property, topography, waterways, nonnegotiable grades or other similar conditions, and an approved alternative means of fire protection is provided. 3. There are not more than two Group R-3 or Group U occupancies.

ACTION REQUIRED: Provide a civil plans showing roadway access to the structure.

4. 2012 IFC 505.1- Address numbers. New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. In Multi-tenant commercial building where tenants have multiple entrances located on different sides of the building , each door shall be addressed. Address numbers shall be Arabic numerals or alphabet letters. Numbers shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm).

CODES ADMINISTRATION

ACTION REQUIRED:(veriified at inspection)

Address shall be readable from the roadway (Broadway)

5. 2012 IFC 508.5.1 -Where required. Where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more than 300 feet from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains shall be provided where required by the fire code official. Exceptions: 1. For Group R-3 and Group U occupancies, the distance requirement shall be 600 feet (183 m).

ACTION REQUIRED: Provide a civil paln showing fire hydrants.

6. 2012 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: Reference Table 3206.2 for extent and type of protection required.

7. 2012 IFC 901.5- Installation acceptance testing. Fire detection and alarm systems, fire-extinguishing systems, fire hydrant systems, fire standpipe systems, fire pump systems, private fire service mains and all other fire protection systems and appurtenances thereto shall be subject to acceptance tests as contained in the installation standards and as approved by the fire code official. The fire code official shall be notified before any required acceptance testing. The fire code official shall be notified 48 hours before any required acceptance test.

ACTION REQUIRED:(information purposes)

Acceptance testing of the fire alarm system and or the fire sprinkler system will be required prior to the final occupancy inspection. Contact the fire department to schedule testing.

8. 2012 IFC 906.5- Conspicuous location. Portable fire extinguishers shall be located in conspicuous locations where they will be readily accessible and immediately available for use. These locations shall be along normal paths of travel, unless the fire code official determines that the hazard posed indicates the need for placement away from normal paths of travel.

ACTION REQUIRED: (veriified at inspection)

Provide one 2A-10BC fire extinguisher for every 3,000 sq ft of useable space. To be located on normal paths of travel close to an exit.

9. Storage

ACTION REQUIRED: Provide information on what will be stored and the commodity classification.

3203.1 Classification of commodities.

10. Storage type

ACTION REQUIRED: Provide information how commodity will be stored, high pile, rack, pallets ?

11. Storage plan

ACTION REQUIRED: Provide a floor plan with the layout of the storage positioning in the warehouse.

12. Egress lighting

ACTION REQUIRED: plans need to indicat location of emergency lighting throughout building.

[B] 1006.1 Illumination required. The means of egress, including the exit discharge, shall be illuminated at all times the building space served by the means of egress is occupied

[B] 1006.3 Emergency power for illumination. The power supply for means of egress illumination shall normally be provided by the premises' electrical supply. In the event of power supply failure, an emergency electrical system shall automatically illuminate all of the following areas:

CODES ADMINISTRATION

1. Aisles and unenclosed egress stairways in rooms and spaces that require two or more means of egress.
2. Corridors, interior exit stairways and ramps and exit passageways in buildings required to have two or more exits.
3. Exterior egress components at other than their levels of exit discharge until exit discharge is accomplished for buildings required to have two or more exits.
4. Interior exit discharge elements, as permitted in Section 1027.1, in buildings required to have two or more exits.
5. Exterior landings as required by Section 1008.1.6 for exit discharge doorways in buildings required to have two or more exits.

The emergency power system shall provide power for a duration of not less than 90 minutes and shall consist of storage batteries, unit equipment or an on-site generator. The installation of the emergency power system shall be in accordance with Section 604.

13. mixed use separation

ACTION REQUIRED: Storage may require separation

3206.3 Separation of high-piled storage areas. High-piled storage areas shall be separated from other portions of the building where required by Sections 3206.3.1 through 3206.3.2.2.

3206.3.1 Separation from other uses. Mixed occupancies shall be separated in accordance with the International Building Code.

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