



December 21, 2015

Jason T
Assistant Planner
City of Beaverton
12725 SW Millikan Way
Beaverton, OR 97076

RE: DR2015-0120 VOSE ELEMENTARY REPLACEMENT

Dear Jason T

Thank you for the opportunity to review the proposed site plan surrounding the above named development project. Tualatin Valley Fire & Rescue endorses this proposal predicated on the following criteria and conditions of approval:

1. **FIRE APPARATUS ACCESS ROAD DISTANCE FROM BUILDING AND TURNAROUNDS:** Access roads shall be within 150 feet of all portions of the exterior wall of the first story of the building as measured by an approved route around the exterior of the building or facility. (OFC 503.1.1) ***The rear (south side) of the building is in excess of this distance. Contact me for possible alternatives.***
2. **PAINTED CURBS:** Where required, fire apparatus access roadway curbs shall be painted red (or as approved) and marked "NO PARKING FIRE LANE" at 25 foot intervals. Lettering shall have a stroke of not less than one inch wide by six inches high. Lettering shall be white on red background (or as approved). (OFC 503.3) ***Painted curbing will be required to clearly delineate the fire lanes.***
3. **FIRE APPARATUS ACCESS ROADS WITH FIRE HYDRANTS:** Where a fire hydrant is located on a fire apparatus access road, the minimum road width shall be 26 feet and shall extend 20 feet before and after the point of the hydrant. (OFC D103.1) ***This will apply to the new hydrant on the west side.***
4. **SURFACE AND LOAD CAPACITIES:** Fire apparatus access roads shall be of an all-weather surface that is easily distinguishable from the surrounding area and is capable of supporting not less than 12,500 pounds point load (wheel load) and 75,000 pounds live load (gross vehicle weight). Documentation from a registered engineer that the final construction is in accordance with approved plans or the requirements of the Fire Code may be requested. (OFC 503.2.3) ***All fire lanes must meet this requirement.***

5. **TURNING RADIUS:** The inside turning radius and outside turning radius shall be not less than 28 feet and 48 feet respectively, measured from the same center point. (OFC 503.2.4 & D103.3) ***All fire lanes must meet this requirement.***

6. **COMMERCIAL BUILDINGS – REQUIRED FIRE FLOW:** The minimum fire flow and flow duration for buildings other than one- and two-family dwellings shall be determined in accordance with residual pressure (OFC Appendix B Table B105.2). The required fire flow for a building shall not exceed the available GPM in the water delivery system at 20 psi. ***Provide fire flow calculations at the site development review.***

7. **FIRE FLOW WATER AVAILABILITY:** Applicants shall provide documentation of a fire hydrant flow test or flow test modeling of water availability from the local water purveyor if the project includes a new structure or increase in the floor area of an existing structure. Tests shall be conducted from a fire hydrant within 400 feet for commercial projects, or 600 feet for residential development. Flow tests will be accepted if they were performed within 5 years as long as no adverse modifications have been made to the supply system. Water availability information may not be required to be submitted for every project. (OFC Appendix B) ***Provide fire flow calculations.***

8. **KNOX BOX:** A Knox Box for building access is required for this building. Please contact the Fire Marshal's Office for an order form and instructions regarding installation and placement. (OFC 506.1) ***A Knox Box will be required for this building.***

9. **EMERGENCY RESPONDER RADIO COVERAGE SYSTEM:** ***This building will be required to be tested to identify any deficient radio coverage areas. All areas of the building that are deficient must be provided with an ERRC system in accordance with OFC Section 510. Testing is typically done at 80% completion of the building. It is recommended to provide appropriate conduits shaft, wiring etc. during construction to accommodate for the system. Additionally, make sure you budget and appropriate time for the installation of this system.***

If you have questions or need further clarification, please feel free to contact me at (503) 259-1414.

Sincerely,

Jeremy Foster

Jeremy Foster
Deputy Fire Marshal II