



Fire Department Site Plan Review Checklist

Property Information

Building Name: _____

Address: _____

Contact Person: _____

Phone: _____ E-mail: _____

Building

Occupancy Type: _____

Square Footage: _____

Number of Stories: _____

Construction Type: _____

Occupant Load (based on net gross): _____

YES NO N/A

Fire Sprinklers or Standpipe System

Fire Alarm System

Commercial Kitchen Hood System

Underground or Aboveground Fuel Storage Tanks

Other: _____

The items in the list below are the minimum requirements and must be addressed during site design.

Site Access:

YES NO N/A

Fire access roads are designed to support the imposed load of a fire apparatus weighing 75,000 lb. gross vehicle weight. **(503.2.3)**

Fire access roads have a minimum of 13 ft. 6. Inches of vertical clearance and 20 ft. unobstructed width. **(503.2.1)** Additional road width (26 ft.) may be required for buildings that require aerial apparatus access.

YES NO N/A

Fire access roads are all-weather driving surface such as asphalt, concrete, chip-seal (oil matting) or similar. Grass pavers with fire lane signage is permitted if a low 6 inch concrete curb is provided along the edges to outline and identify the driving area. **(503.2.3)**

All portions of the buildings exterior walls are within 150 ft. of the fire access road. **(503.1.1)**

Turnarounds provided for any dead-end road in excess of 150ft in length. **(503.2.5)** Dead-end roads in excess of 150 ft. resulting from a phased project are required to be provided with temporary approved turnarounds.

Additional access road provided for residential subdivisions with more than 30 single family lots or multifamily buildings with a total of more than 100 units. **(503.1.2)** Commercial buildings may require additional access depending on design.

Fire apparatus access road(s) maximum grade conforms to specifications established by the fire code official (10% unless otherwise approved). **(503.2.7)**

As an alternate for grade exceeding 10 percent: Access grade shall not exceed 10 percent but if it does, the first portion of the grade shall be limited to 10 percent for a length of 200 ft. and then 15 percent to 20 percent for a maximum of 200 ft., repeat the cycle as necessary or as approved by fire code official. **(503.2.7)**

The turning radius for the emergency apparatus road(s) is in accordance with Southern Pines Fire Department Turning Performance Analysis data sheet. Overlays are shown on plans for all access roads and show turning in both directions. **(503.2.4)** Final approval for all turning radii shall be field verified by the fire department prior to Certificate of Occupancy.

The angles of approach and departure for fire apparatus access shall not exceed 8 degrees. **(503.2.8)**

Plan for fire access during construction. **(501.4)**

Details for No Parking Fire Lane Signage if required including road stripping (cross-hatching) are indicated. **(503.3)**

Security gate(s) across fire access roads shall be electronically operated by siren and are provided with fire department KnoxBox key switch override. **(503.6)**

Where a bridge or elevated surface is designed in a Fire Apparatus Access Road then the bridge shall be constructed and maintained to AASHTO HB-17, and designed and rated to carry at least 75,000 lbs.

Traffic calming devices shall be prohibited except when approved by the Fire Code Official

Site Water and Fire Protection:

YES NO N/A

Fire flow calculations determined using the current (ISO Guide for Determination of Needed Fire Flow) and submitted with plan. **(507.3)** *Required Fire Flow:*_____ *Available Flow:*_____

The most remote exterior portion of a non-sprinklered building is within 400 feet of a fire hydrant. **(507.5.1)**

All existing and proposed water mains and fire hydrant locations and size are indicated on plans. (Fire hydrants shall not be spaced more than 500 feet apart).

Fire system backflow prevention devices are located inside the building and indicated on plans. **(903.3.5)**

Fire Department Connections (FDC) for fire sprinklers or standpipes are located remote from the building exterior outside of the collapse zone and within 50ft. of a fire hydrant with details for construction provided. **(903.3.7)**

Landscaping plan has been checked to verify that clear space is maintained around fire hydrants, FDC and other fire protection equipment. **(507.5.5)**

Note: *When approved as an alternative materials and method, the building may be protected throughout by an approved automatic sprinkler system, if the minimum required fire flow is not available or other requirements of the code can not be met.*

Staff Contact Information:

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