FIRE SERVICE PLAN REVIEW CHECKLIST

INITIAL SUBMITTAL

- Two sets of site plan drawings
- Electronic copy of site plan
- Two copies of internal fire protection plans
- Completed Fire Service Questionnaire

SITE PLAN

- ❑ Plan not greater than 1"=100' scale
- ❑ Accurately shows tie-in to the existing system
- ❑ North arrow
- ❑ Location map
- ❑ Title block
  - Names, mailing addresses and telephone numbers of the owner of the property, the land developer, the engineer or consultant
  - Name of the project
  - Tax map number of the property
  - Spartanburg County Grid #
  - Scale
  - Date (also include revision dates)
- ❑ Legend for all symbols
- ❑ Street names with R/W limits
- ❑ Property line
- ❑ Easements labeled and dimensioned
- ❑ Building footprint(s)
- ❑ Any known conflicting utilities
- ❑ Fire service and domestic tap are separate
- ❑ Fire Service enclosure location
  - Must be within ~10 feet of the property line on the owner's property and accessible to Spartanburg Water staff.
  - Must be located on the parcel that will be served by fire service
  - Must serve only a single parcel, but may serve more than one structure on a single parcel of property.
  - Exception, enclosure may not be required if the building being protected by fire service is less than 50 feet from the supply water main. In this case backflow device can be located inside of building. Spartanburg Water Project Manager must approve exception.
- ❑ Pipe layout, material and size (diameter)
- ❑ Hydrants
  - Fittings, valves, thrust blocking or restraint system and all other necessary information

    - Identify Hydrants which will be private. (Typically hydrants not in the public ROW which only benefit single property are private. These are most often behind the FS pit, but not always.)
    - Location of Hydrant must be approved by Spartanburg Water Project Manager
- ❑ Appropriate details consistent with Spartanburg Water standard specifications (ex. Thrust block, fire hydrant, concrete collar, pit or enclosure details, etc.)
- ❑ Fire Service Enclosure uses Spartanburg Water standard detail or complies with requirements of Section 6 of Water Distribution System Technical Specifications
    - Shop drawings must be submitted
- ❑ Plans are consistent with information provided in Fire Service Questionnaire (FSQ)
- ❑ Backflow device must be on Spartanburg Water approved list
- ❑ If Reduced Pressure Backflow Prevention Device (RP) required, enclosure must be above ground, have suitable freeze protection, & not subject to flooding
- ❑ If project includes a booster pump which draws directly from the Spartanburg Water distribution system (ie no private storage tank),
    - A Low-Pressure Suction Control Valve (LPSCV) must be provided downstream of the pump. A low pressure sensing line must be installed from the LPSCV to the suction side of the pump. The Spartanburg Water Project manager must determine setting for LPSCV.
    - Pump Curves and specifications must be submitted
    - Backflow device installed on the suction side of the pump, at least 10 pipe diameters from the pump
- ❑ Details on tanks including all piping, meters, etc., if applicable

Internal Fire Protection Plans

- ❑ Verify that flows shown are consistent with demand requirements specified on FSQ
- ❑ Once Cross Connection Control Technician has reviewed, address any comments from CCC including verifying that required type of backflow device is specified on plans.

Fire Service Questionnaire

- ❑ Verify completeness
- ❑ Verify consistency of plans with responses provided. For example, if it says that a FDC is required, is one shown on the plans? If a pumper hydrant is required within 100 feet of FDC, is a hydrant shown on the plans within appropriate distance?