

*Serving the Cities of Kent, Covington and King County Fire District 37*

# Private Fire Service Mains and Appurtenances

**Please print in black ink only.**

## Scope

This checklist pertains to the design and construction for the installation of private fire service mains and their appurtenances supplying water-based fire protection systems, standpipe systems, and private fire hydrants. It also applies to "combination service mains" used to carry water for both fire service and other use.

### Minimum Requirements for Construction Drawings

Plans which do not contain the minimum information required will not be accepted for review. Plans shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show that it will conform to the provisions of the adopted International Fire Code, Kent City Code, and the adopted National Fire Protection Association Standards to include at a minimum; 24 & 13.

- Three (3) copies of plans (24" × 36", or 30" × 42") must be submitted for review.
- All sheets must be the same size.
- Compass direction and clearly marked scale.
- Shall be drawn in indelible ink.
- Sheets that are cut and pasted, taped, or that have been altered by any means (pen, pencil, marking pen, etc.) **will not** be accepted for review.
- Washington State law requires that any registered professional who prepares or supervises the preparation of drawings and construction documents stamp and sign such documents.

---

## PROJECT NAME

### General (Fire Permit Application)

Yes No

- |                          |                          |                                                                                                           |
|--------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | Protection location, including street address                                                             |
| <input type="checkbox"/> | <input type="checkbox"/> | Assessors Parcel Number(s).                                                                               |
| <input type="checkbox"/> | <input type="checkbox"/> | Owner's name, address, telephone, and fax numbers.                                                        |
| <input type="checkbox"/> | <input type="checkbox"/> | Contractor's name, address, telephone, and fax numbers. Contractor's License Number with expiration date. |
| <input type="checkbox"/> | <input type="checkbox"/> | Project Contact business name, individual's name, address, telephone number, fax number, email address..  |
| <input type="checkbox"/> | <input type="checkbox"/> | Detailed Scope of Work                                                                                    |
| <input type="checkbox"/> | <input type="checkbox"/> | Estimated Valuation (Engineers Cost Estimate)                                                             |

### Supporting Drawings

Yes No

- |                          |                          |                                  |
|--------------------------|--------------------------|----------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | Vicinity Map, scale as necessary |
| <input type="checkbox"/> | <input type="checkbox"/> | Site Plan, scale as necessary    |

# Working Drawings

- | Yes                      | No                                                                                                                                                                                                                                                                                                          |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> Maximum scale of 1" = 20'                                                                                                                                                                                                                                                          |
| <input type="checkbox"/> | <input type="checkbox"/> Provide a Legend of symbols                                                                                                                                                                                                                                                        |
| <input type="checkbox"/> | <input type="checkbox"/> Public and Private water mains must have a different symbol                                                                                                                                                                                                                        |
| <input type="checkbox"/> | <input type="checkbox"/> Indicate the size and location of all water supplies                                                                                                                                                                                                                               |
| <input type="checkbox"/> | <input type="checkbox"/> Indicate the size and location of existing piping, indicating, where possible, the class and type and depth.                                                                                                                                                                       |
| <input type="checkbox"/> | <input type="checkbox"/> Indicate the size, type and location of valves.                                                                                                                                                                                                                                    |
| <input type="checkbox"/> | <input type="checkbox"/> Indicate the location of all post indicator valves including detail of connections.                                                                                                                                                                                                |
| <input type="checkbox"/> | <input type="checkbox"/> Indicate the size, type, and location of meters, regulators, drips, and check valves.                                                                                                                                                                                              |
| <input type="checkbox"/> | <input type="checkbox"/> Indicate the size and location of hydrants, showing size and number of outlets and detail of connections. Hydrants shall be placed at least 40-ft. (12.2m) from the protected structure.                                                                                           |
| <input type="checkbox"/> | <input type="checkbox"/> Provide hydraulic availability at each hydrant and floor flange. This should include static pressure, residual pressure, and gallons per minute at a pressure of 20 psi.                                                                                                           |
| <input type="checkbox"/> | <input type="checkbox"/> Indicate the location of Fire Department Connections including detail of connections. Fire Department Connections shall be placed less than 70-ft. (15.25m) from associated public hydrant. No roadway may pass between the Fire Department Connection and the associated hydrant. |
| <input type="checkbox"/> | <input type="checkbox"/> Indicate the location of all Post Indicator Valves including detail of connections. Post Indicator Valves shall be placed at least 40-ft. (12.2m) from the protected structure.                                                                                                    |
| <input type="checkbox"/> | <input type="checkbox"/> Indicate the size, type, and location of all thrust restraint including detail of installation.                                                                                                                                                                                    |

# Construction Notes & Details

- | Yes                      | No                                                                                                                                                                                                                     |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> Scale as necessary                                                                                                                                                                            |
| <input type="checkbox"/> | <input type="checkbox"/> Provide general construction notes as necessary.                                                                                                                                              |
| <input type="checkbox"/> | <input type="checkbox"/> Provide details for Thrust Restraint Systems.                                                                                                                                                 |
| <input type="checkbox"/> | <input type="checkbox"/> Provide details for Post Indicator Valves. Operating nut shall be placed 36 in. (.9m) above final grade. Post Indicator Valves shall be red in color.                                         |
| <input type="checkbox"/> | <input type="checkbox"/> Provide details for hydrants. The center of the hose outlet shall be not less than 18-in. (457 mm) above final grade. Private hydrants shall have two coats of Farwest Wonderglo X3472 paint. |
| <input type="checkbox"/> | <input type="checkbox"/> Provide details for Fire Department Connections. The center of the swivels shall be 48-in. (1.22m) above finished grade. Swivels shall be equipped Knox Locking FDC Caps.                     |

## The Kent Construction Standards can provide many standard details including;

- Hydrant Detail: #3-1
- Bollards: #3-3
- DDCVA: #3-18
- Single-family Residential Domestic Water/ Fire Line: #3-16
- Multi-family Residential Domestic Water/Fire Line: #3-17

**PLEASE READ THE INFORMATION BELOW AND  
SIGN BEFORE SUBMITTING YOUR APPLICATION**

Your application shall be deemed complete only if this checklist is completed and submitted along with the submittal package. Submittals not accompanied by a checklist will not be accepted. Accuracy of the submittal package, including this checklist, is the responsibility of the applicant. Failure to submit an accurate submittal package will be considered an incomplete application by the Plan Reviewer. An incomplete submittal will result in a HOLD. A Re-submittal (new submittal package) will be required and always results in a delay.

**I have checked the applicable boxes and have included those requirements in my submittal.**

---

Print Name

---

Signature

---

Date