

# Fireline Connection Requirements

## Application, Contractor Licensing, and Permitting Information:

1. A service application must be completed for all fireline connections. Application for service may be obtained from: [http://www.lawrenceks.org/utilities/technical\\_resources](http://www.lawrenceks.org/utilities/technical_resources) or by contacting Utilities Administration at 785-832-7800.
2. The Department of Utilities is responsible for the installation of firelines in the downtown area between 6<sup>th</sup> to 11<sup>th</sup> Streets and Vermont to New Hampshire as part of the downtown sprinkler program. Current information on the downtown sprinkler program may be obtained from <http://www.lawrenceks.org/utilities/node/82>.
3. Fireline installations must be performed by a qualified contractor for those areas not covered by the downtown sprinkler program. A qualified contractor must be licensed with the City of Lawrence as a Class E Plumbing Contractor and meet all applicable requirements as set forth in Chapter 5, Article 15 of the Code of the City of Lawrence, Kansas: [http://www.lawrenceks.org/city\\_code](http://www.lawrenceks.org/city_code)
4. North 3<sup>rd</sup> Street, North 2<sup>nd</sup> Street, 6<sup>th</sup> Street, Iowa Street, and 23<sup>rd</sup> Street are state highways. Please note that the owner must obtain an approved state work in right of way permit prior to construction: [http://www.ksdot.org:9080/DOT\\_304\\_Hwy\\_permit.pdf](http://www.ksdot.org:9080/DOT_304_Hwy_permit.pdf)
5. Any new water main (fireline or water service) placed within the right of way requires an application for work in right of way: [http://www.lawrenceks.org/adminservices/pdffiles/Use\\_of\\_ROW\\_Application\\_2009.pdf](http://www.lawrenceks.org/adminservices/pdffiles/Use_of_ROW_Application_2009.pdf).

## Site Plan Requirements and General Information:

1. A site plan must be submitted for all fireline connections. The site plan must show, at a minimum, the following information:
  - a. The service address and general site layout.
  - b. The layout of the proposed fireline, including tap location, pipe size and material.
  - c. The size, location, and pipe type of the existing watermain from which service will be taken.
  - d. All valves, private fire hydrants, and the location, size and type of the backflow prevention assembly.
  - e. The location and size of the backflow prevention vault, if applicable.
  - f. The location of the meter pit, if applicable.
2. Typical fireline connection schematics are available through the City of Lawrence: [http://www.lawrenceks.org/utilities/technical\\_resources](http://www.lawrenceks.org/utilities/technical_resources).
3. The fireline materials from the water main connection to the property line must meet all applicable requirements of Section 2900 of the City of Lawrence Construction and Material Specifications: [http://www.lawrenceks.org/utilities/technical\\_resources](http://www.lawrenceks.org/utilities/technical_resources).
4. Fireline connections 1 inch and smaller are required to be metered. Meter costs will apply, system development charges (SDC's) do not apply.
5. Fire hydrant flow data is available on request, 785-832-7800.

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6. Private fire hydrants shall be painted red, open right, and meet all applicable requirements of Section 2902.4 of the City of Lawrence Construction and Material Specifications. If a fireline is for a fire hydrant only, this line must still meet backflow prevention requirements. A detector must be included as a part of the backflow prevention assembly on fire lines that include fire hydrants.
7. Firelines that are installed under public pavement (including sidewalks) must be backfilled with flowable fill and pavement restoration must meet public works city standards:  
[http://www.lawrenceks.org/public\\_works/specifications](http://www.lawrenceks.org/public_works/specifications)
8. All submitted information is provided to the Planning Department, Development Services and the Fire Department for verification of fireline size and site plan requirements. All applications will also be sent to the Historical Resource Administrator and Department of Public Works to verify there are no additional requirements. Work shall not commence until fireline size is confirmed and approved by the Fire Department.
9. Material submittals are required for the public portion of the fireline, backflow prevention assembly and backflow prevention vault. Material submittals shall be submitted to the Department of Utilities Project Engineer for review and approval.
10. Written authorization to proceed following submittal and approval of all information listed above.
11. City code 19-122 states that the maximum size of any fire service connection shall be at least two inches less in diameter than the main from which such fire service connection is made.
12. Proper cross connection control must be provided in accordance with Chapter 19, Article 7 of the Code of the City of Lawrence. Backflow prevention device shall be commensurate with the hazard posed. The backflow device must be located within 50 feet of the main connection and placed within private property. If backflow prevention assembly can be located in the building and meet the 50 foot distance, then this should be noted on the site plan. If the backflow prevention assembly will be located outside the building, a device appropriate housing will be required such as a concrete vault, hot box or meter tile.

### Construction Requirements:

1. The contractor must provide 72 hour written notice to adjacent property owners and the Utilities Engineer.
2. The contractor must provide at least 24 hours notice to the Utilities Engineer to schedule inspection.
3. The contractor or design engineer must provide a traffic control plan, if applicable, for review and approval by the City Engineer. The review and approval process is typically completed within one week from the date of submittal.
4. The contractor is required to notify the Fire Department and must have the Fire Department's inspection on the private portion of the fireline, 785-830-7000.

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## Inspection and Warranty Requirements:

1. Department of Utilities Inspection is required for all fireline installations performed by private contractors.
2. An inspection fee of \$37.11 per hour will be charged for inspection of the portion of work from the water main tap to the property line.
3. The inspector will verify that the fireline, valves, and backflow prevention assembly are properly installed.
4. The owner shall pay the contractor in full prior to final acceptance of the work by the Department of Utilities.
5. There will be a one year warranty period for the public portion of the fireline.

Contact the Department of Utilities at 785-832-7800 for site specific questions.