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# LAS VEGAS FIRE & RESCUE

Fire Prevention Division

## Information Sheet

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*The items listed are basic information only. Please refer to adopted codes for specific details. Codes are subject to change. Additional requirements may apply.*

Effective Date: January 06, 2026

## Submittal Guide for Fire Underground Installation Permits

A fire permit is required for the installation of private underground fire lines, fire hydrants, fire sprinkler lead-ins, and in-building risers. This guide is to assist in the permitting process.

A separate Fire Permit is required for:

- The complete site fire water system, which may include the water mains, gate valves, and hydrants.
  - For projects with multiple buildings, each sprinklered building may have a separate permit for the in-building riser. This can include the length of the fire line from the main to the building, if desired.
- The private fire sprinkler line from the water main to within 5' of the building.
  - The in-building riser may be included, which is the standard one-piece Ames or Wilkins or, if applicable, a custom-built, contractor-designed riser.

### Submittal Requirements:

The listed requirements are not intended to be all-inclusive, nor do they limit the extent of information that may be necessary to properly evaluate the submitted documents. Not all items may apply to your project.

### Construction Documents:

- Provide a detailed scope of work on the underground company's letterhead, following the template. (Attached to this information sheet.)
- Provide a copy of the approved pertinent Civil plan for the scope of work.
- The CLV standard single-piece lead-in detail that indicates the size of the pipe. (Attached to this information sheet.)
  - If not using a standard detail, you shall provide a contractor-designed plan that meets the State Contractor's Board requirements, including all necessary information.
- Copy of the product data sheets. (For the specific lead-in or materials used)

Fire Inspections Section - (702) 229-0366 [lvfireprevention@lasvegasnevada.gov](mailto:lvfireprevention@lasvegasnevada.gov)

Fire Engineering Section - (702) 229-5397 [lvfireengineering@lasvegasnevada.gov](mailto:lvfireengineering@lasvegasnevada.gov)

# [Underground contractor company letterhead]

[Date]

[CHANGE THE ITEMS IN BLUE TO THE PROJECT SPECIFICS]

Las Vegas Fire & Rescue – Fire Engineering Section  
495 S. Main Street 2<sup>nd</sup> Floor  
Las Vegas, NV 89101

[Job name]

[Building Address]

[Associated civil/building permit number]

[Underground contractor company] is requesting a permit for the above-referenced property. The following is the Scope of Work:

1. Total linear feet of pipe
2. Size of pipe
3. Type of pipe
4. Number, model, and size of in-building risers per CLV Standard Detail or per contractor-drawn plans.
5. Number of private fire hydrants installed.

All work shall be done in accordance with the currently adopted codes: 2022 NFPA 24, 2024 IFC, and CLV Amendments.

Regards,

[Signature and signature block of authorized person from the underground company]  
[Contractors license #], [Contractors license classification], & [Contractors license limit]



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## Fire Sprinkler Single Piece Lead-In Standard Detail

Valid only for a single one-piece lead-in riser. **Not valid** for multi-piece bolted or flanged lead-in.

TO BE COMPLETED BY CONTRACTOR

PROJECT INFORMATION: Street Address: \_\_\_\_\_

Project Name: \_\_\_\_\_

CONTRACTOR'S INFORMATION: Contractor Name: \_\_\_\_\_

State License Number: \_\_\_\_\_

I hereby certify that the work herein described is to be done in accordance with all of the provisions of the applicable ordinances of the City of Las Vegas; Nevada and State Laws, whether herein specified or not.

Signed Contractor: \_\_\_\_\_ SFM Master Card # \_\_\_\_\_



### GENERAL REQUIREMENTS

- A. 10ft maximum [NFPA 24§10.4.3.2]
- B. 12in minimum [NFPA24§10.4.3.1.2]
- C. No pipe joints under foundation [NFPA 24§10.4.3.1.1]
- D. Undisturbed earth [NFPA 24§10.6.1.3]
- E. Thrust Block [NFPA 24§10.6.1]
- F. 3ft-6in minimum burial depth [NFPA 24§10.4.2]
- G. 2in minimum nominal annular clearance [NFPA 13§18.4.2]
- H. Lead-In pipe shall be same size as underground lateral pipe.
- I. Ames model IBR (single piece In-Building-Riser) or, Wilkins model WBR (single piece In-Building Riser);
- J. Corrosion Resistance shall be provided by any of the following methods [NFPA 13§6.4]:
  - Thoroughly coating all steel with bituminous, or
  - High-density polyethylene wrap 0.004in min thickness, or
  - Low-density polyethylene wrap 0.008in min thickness.

Any deviation from these standards requires design drawings to be prepared by a licensed contractor / design professional per NAC and NRS regulations.

This standard does not constitute permission to violate any city, state or federal laws, or ordinances.

Ultimate responsibility for compliance rests with the contractor and owner.

Final acceptance or installation is based upon filed inspections and acceptance testing.

Minimum Thrust Block Size (square-foot)			
Diameter	100 psi	150 psi	200 psi
4"	0.8	1.3	1.7
6"	1.8	2.6	3.5
8"	3.0	4.5	6.0
10"	4.6	6.8	9.1

\* Based on minimum 1500 lbs/ft<sup>2</sup> soil bearing strength.

