



**REQUIRED STANDPIPE SYSTEMS**

A standpipe system shall be installed in buildings where a floor level of the highest story is more than 30-feet above the lowest level of *fire department vehicle access*, or where the floor level of the lowest story is located more than 30 feet below the highest level of *fire department vehicle access*, as specified by the Houston amended *Building Code* and *Fire Code* Section 905.3.1. Standpipe systems shall be installed where required by Houston *Building Code* and *Fire Code*, Sections 905.3.1 through 905.3.8. Contact the Houston *Fire Marshal* Plan Review Section for additional information.

**MINIMUM PLAN INFORMATION FOR STANDPIPE SYSTEM PLAN REVIEW**

Where standpipes are required, electronically submit a complete set of standpipe drawings into the *Fire Marshal* standpipe folder for review. **ProjectDox:** <https://projectdox.houstonelectronicplanreview.org/ProjectDox/index.aspx>

RQ	N/A	MINIMUM REQUIRED PLAN SUBMITTAL INFORMATION	SHEET NO./ LOCATION
<input type="checkbox"/>	<input type="checkbox"/>	Three or more stairwells are required to have to two (2) FDC connections.	
X		Submit only the standpipe system on the sheets for standpipe review (no sprinkler information).	
X		Provide pump room details and include indicating suction / discharge line sizes.	
X		Provide jockey pump tie-in location.	
X		Provide break tank details with vortex plate size.	
X		Provide location of Fire Department Connections (FDC's) <b>NOTE:</b> FDC's must be located on the street address side.	
X		Label stairwells on all sheets as alphabetical or directional.	
X		Provide roof pipe size and valve on layout.	
X		Provide a plan sheet with an isometric view of the pipe run for the standpipe system.	
X		We do not stamp civil sheets and for this reason, please submit an aerial or site view showing the location of the hydrant and FDC. The location of the FDC must be accessible for emergency apparatus and located on the street address side within 100 feet of the hydrant. The scale must be included on this sheet. Make sure the address of the building and cross street is documented on this sheet.	

***Houston Amended IBC and IFC Code Excerpt:***

**SECTION 905 – STANDPIPE SYSTEMS**

**[F] 905.3 Required installations.** Standpipe systems shall be installed where required by Sections 905.3.1 through 905.3.8. Standpipe systems are allowed to be combined with automatic sprinkler systems.

**Exception:** Standpipe systems are not required in Group R-3 occupancies.

**[F] 905.3.1 Height.** Class III standpipe systems shall be installed throughout buildings where the floor level of the highest story is located more than 30 feet (9144 mm) above the lowest level of fire department vehicle access, or where the floor level of the lowest story is located more than 30 feet (9144 mm) below the highest level of fire department vehicle access.

**Exceptions:**

1. Class I standpipes are allowed in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2.
2. Class I manual standpipes are allowed in open parking garages where the highest floor is located not more than 150 feet (45 720 mm) above the lowest level of fire department vehicle access.
3. Class I manual dry standpipes are allowed in open parking garages that are subject to freezing temperatures, provided that the hose connections are located as required for Class II standpipes in accordance with Section 905.5.
4. Class I standpipes are allowed in basements equipped throughout with an automatic sprinkler system.
5. In determining the lowest level of fire department vehicle access, it shall not be required to consider:
  - 5.1. Recessed loading docks for four vehicles or less; and
  - 5.2. Conditions where topography makes access from the fire department vehicle to the building impractical or impossible