



FIRE PREVENTION CONSTRUCTION STANDARDS GENERAL INSPECTION TYPES

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Code Section: 2022 California Fire Code

PURPOSE AND SCOPE

2001.1 This handout provides information about construction inspection types and what they include.

This is not a complete list. Other inspections such as hazardous materials storage, tanks, lab gas piping, high piled storage, special extinguishing systems, and other special plan reviews or hazard inspections will require additional inspections not mentioned below. Contact your assigned fire inspector for more information.

Fire Access Road: A fire access road must be provided before any combustible construction or combustible storage is placed on site. The access road shall have at least one layer of asphalt capable of supporting 80,000 pounds of gross vehicle weight in all weather conditions.

INSPECTION TYPES

2001.2 **Underground Visual and Hydrostatic Inspection of Fire Service Line**
This inspection includes a visual inspection of the fire service water line with the installed above-ground double detector check valve and fire department connection. Visual inspection includes but is not limited to:

- a. Type and size of pipe installed.
- b. Plastic wrap: min. 8 mil for all metallic pipe.
- c. Tracer wire: laid on top of the water main and taped (min. 19 mil) at intervals of 10 feet or wrapped in plastic if metallic pipe used, continuous between valve boxes, splices (soldered required).



- d. Thrust blocks (poured), class B concrete, clear of joints, and against undisturbed soil.
- e. Pipe joint connections.
- f. Hydrostatic test of 200 psi (300 psi gauge required) for a minimum of two hours, center-loading required. All joints to remain open for inspection.
- g. Fire hydrants with concrete pad: working and a minimum of 20" of clearance from the lowest valve stem to finished grade.

2001.3 **Flush Inspection**

This inspection is a flush of your fire service line and shall be witnessed by the fire department. This flush will consist of a full flush of the size of the pipe installed. Reducers will not be allowed. All SWPPP requirements shall be followed.

2001.4 **Weld Inspection**

An inspection of the fire sprinkler pipe and welded outlets shall be conducted. Pipe shall be spread out on the ground in such a manner as to allow inspection of each weld fitting.

2001.5 **Overhead Sprinkler and Hydrostatic Inspection**

Walls, ceilings, overhangs, soffits, piping, hangers, and fasteners shall remain open and visible for inspection from ground level. In some cases, insulation may cover up hangers and fasteners and shall not be installed prior to this inspection except for concealed combustible spaces meeting NFPA 13 requirements and needing inspection. All mechanical tees shall have discs hung at tee location and visible to the inspector. All aspects of this system shall be visible to the inspector from the ground level.

2001.6 **Drop Ceiling Inspection (T-bar)**

All fire sprinklers, piping, fire-stopping, hard lids, mechanical equipment, and insulation shall be in place.

2001.7 **Fire Alarm Inspection and Kitchen Hood Suppression System**

Consists of a pre-wire inspection and a final fire alarm inspection. Two fire alarm representatives with a means of communicating with each other shall



be on site for the final fire alarm inspection. In some cases, a 24-hour battery backup test may be required. All HVAC units equipped with duct detectors shall be operable for inspection. It is recommended that the mechanical and electrical installer be available for this inspection for questions and immediate repairs if needed.

Kitchen equipment shall be operable for inspection of gas and electrical shutdown in conjunction with the hood suppression system and the fire alarm system. Movable kitchen equipment shall have floor devices installed to ensure the correct equipment position for nozzle alignment and protection.

2001.8

Final Inspection

Consists of but is not limited to:

- a. As-built plans and all fees paid
- b. Fire extinguishers with service tags
- c. Fire and life safety systems service tags (sprinkler, alarm, kitchen)
- d. Fire and life safety systems testing and acceptance reports uploaded to The Compliance Engine.

<https://www.cosumnescsd.gov/1291/Maintaining-Commercial-Fire-Systems>
- e. Exiting: Exits signs, emergency lighting, door hardware
- f. Illuminated addressing and suite numbers on all doors
- g. Ceiling tiles in place and escutcheons on fire sprinklers
- h. Site work: Fire lanes, hydrants, painting of equipment, signs, chains and locks
- i. Signage: Fire control room, no storage, electrical and mechanical room, roof access, NFPA 704 placard, stairwells, etc.
- j. High piled storage and maximum height marking/stripe



- k. Knox box: Building and suite keys are to be provided with key identification tags
- l. Gates: Click 2 Enter and Knox products
- m. Occupant load signs
- n. Requirements for interior finish and decorative materials
- o. Electrical panel schedule
- p. Gas cylinders secured

REFERENCES

- 2001.9 The Compliance Engine www.thecomplianceengine.com
- 2001.10 2022 California Fire Code