LIVERMORE
CALIFORNIA

Protection of Pedestrians During Construction or Demolition

Submittal Requirements

Provide two (2) copies of a scaled site plan (plot plan) showing the following:

- The location of existing and proposed structure(s).
- The street, alley or public sidewalk affected by the improvements.
- The location of the railings, fences and/or canopies.
- Show the path of travel and signs directing pedestrian traffic.

General

No person shall use or occupy a street, alley or public sidewalk for the performance of work under a building permit except as permitted in this bulletin.

No person shall perform any work on any building or structure adjacent to a public way in general use by the public for pedestrian travel unless the pedestrians are protected as specified in this bulletin.

Any material or structure temporarily occupying public property, including fences and walkways, shall be adequately lighted between sunset and sunrise.

Storage on Public Property

The use of public property (streets, alleys or public sidewalk) shall meet the requirements of the City of Livermore. Whenever requested, construction details shall be submitted for review and approval.

Material and equipment necessary for work to be done under a permit shall not be placed or stored on public property so as to obstruct free and convenient approach to and use of any fire hydrant, fire or police alarm box, utility box, catch basin, or manhole or so as to interfere with the free flow of water in any street or alley gutter.

The mixing or handling of mortar, concrete or other material on public property shall be done in a manner that will not deface public property or create a nuisance

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Protection of Utilities

A substantial protective frame and boarding shall be built around and over every street lamp, utility box, fire or police alarm box, fire hydrant, catch basin, and manhole that may be damaged by any work being done under the permit. This protection shall be maintained while such work is being done and shall not obstruct the normal functioning of the device.

Walkway

A walkway not less than 4 feet wide shall be maintained on the sidewalk in front of the building site during construction, alteration or demolition unless the public agency having jurisdiction authorizes the sidewalk to be fenced and closed. Adequate signs and railings shall be provided to direct pedestrian traffic.

The walkway shall be capable of supporting a uniform live load of 150 pounds per square foot (psf). A durable wearing surface shall be provided.

Pedestrian Protection Required

Pedestrian traffic shall be protected by a railing on the street side when the walkway extends into the roadway, by a railing adjacent to excavations and by such other protection as set forth in Exhibit A. The construction of such protective devices shall be in accordance with the provisions of this chapter**.**

Railings shall be substantially built and, when of wood, shall be constructed of new material having a nominal size of at least 2 inches by 4 inches. Railings shall be at least 3 feet 6 inches in height and, when adjacent to excavations, shall be provided with a midrail.

Fences

Fences shall be solid and substantially built, be not less than 8 feet in height above grade and be placed on the side of the walkway nearest to the building site. Fences shall extend the entire length of the building site and each end shall be returned to the building line.

Openings in such fences shall be protected by doors that are normally kept closed.

All fences shall be provided with 2-inch-by-4-inch plates, top and bottom, and shall be well braced. The fence material shall be a minimum of ¾ - inch boards or ¼ - inch plywood. Plywood fences shall conform to the following requirements:

1. Plywood panels shall be bonded with an adhesive identical to that for exterior plywood.
2. Plywood ¼ inch or 5/16 inch in thickness shall have studs spaced not more than 2 feet on center.
3. Plywood 3/8 inch or ½ inch in thickness shall have studs spaced not more than 4 feet on center, provided a 2-inch-by-4-inch stiffener is placed horizontally at the midheight when the stud spacing exceeds 2 feet on center.
4. Plywood 5/8 inch or thicker shall not span over 8 feet.

Canopies

The protective canopy shall have a clear height of 8 feet above the walkway. The roof shall be tightly sheathed. The sheathing shall be 2-inch nominal wood planking or equal. Every canopy shall have a solid fence built along its entire length on the construction side.

If materials are stored or work is done on the roof of the canopy, the street sides and ends of the canopy roof shall be protected by a tight curb board not less than 1 foot high and a railing not less than 3 feet 6 inches high.

The entire structure shall be designed to carry the loads to be imposed on it, provided the live load shall not be less than 150 psf may be constructed as follows:

1. Footings shall be continuous 2-inch-by-6-inch members with scabbed joints.
2. Posts not less than 4 inches by 6 inches in size shall be provided on both sides of the canopy and spaced not more than 12 feet, center to center.
3. Stringers not less than 4 inches by 12 inches in size shall be placed on edge upon the posts.
4. Joists resting upon the stringers shall be at least 2 inches by 8 inches in size and shall be spaced not more than 2 feet, center to center.
5. The deck shall be of planks at least 2 inches thick nailed to the joists.
6. Each post shall be knee-braced to joists and stringers by members 4 feet long, not less than 2 inches by 4 inches in size.
7. A curb not less than 2 inches by 12 inches in size shall be set on edge along the outside edge of the deck.

EXCEPTION: Protection canopies for new, light-frame construction not exceeding two stories in height may be designed for a live load of 75 psf or the loads to be imposed on it, whichever is the greater.

Maintenance and Removal of Protective Devices

Pedestrian protection shall be maintained in place and kept in good order for the entire length of time pedestrians may be endangered.

Every protection fence or canopy shall be removed within 30 days after such protection is no longer required by this chapter for protection of pedestrians.

Demolition

The work of demolishing any building shall not commence until the required pedestrian protection structures are in place.

The building official may require the permittee to submit plans and a complete schedule for demolition. When such are required, no work shall be done until such plans or schedule, or both, are approved by the building official.

EXHIBIT A—TYPE OF PROTECTION REQUIRED FOR PEDESTRIANS

Height of Construction	Distance from Construction	Protection Required
8 feet or less	Less than 6 feet 6 feet or more	Railing None
More than 8 feet	Less than 6 feet	Fence and canopy
	6 feet or more, but not more than one fourth the height of construction	Fence and Canopy
	6 feet or more, but between one fourth to one half the height of construction	Fence
	6 feet or more, but exceeding one half the construction height	None