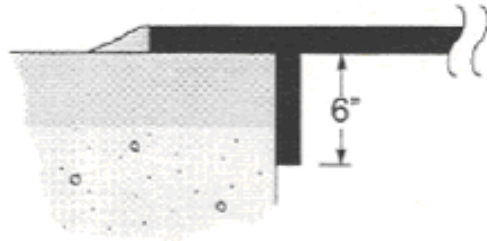


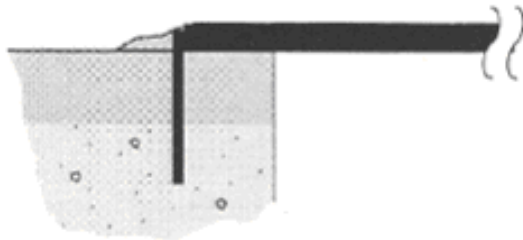
Attachment 5 Trench Plates

Steel traffic plates may deform under heavy traffic loads. This flexing may allow them to move enough to cause a hazard. Sloping streets increase the possibility of plate movement.



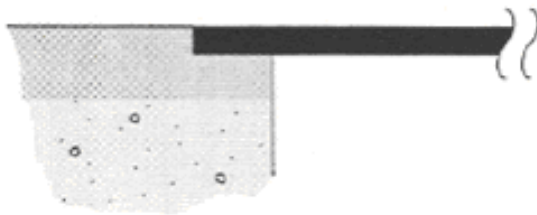
Traffic Plate with Welded Legs

A method of preventing plate movement is to weld vertical legs made of 2-inch pipe or angle iron to the bottom of the plate. One disadvantage of this method is that the legs must be removed before the plates can be stacked.



Steel Traffic Plate with Pinned Edges

Employees may also choose to “pin” the plates. Drill holes into the street around the plate edges and insert railroad spikes, pieces of rebar, or other suitable material to prevent the plate from sliding. Ensure the retaining pins are flush with the plate and will not damage tires. The pins should be tack welded to ensure the plate will remain in place.



Steel Traffic Plate Recessed into Street

Employees may also recess the plates into the road surface to prevent them from moving.

Edges around plates should not create a lip.