



Traffic Signal Design Manual

ORIGINATOR Director, Bureau of Highway Operations	6-1-6
CHAPTER 6	Signal Infrastructure Design
SECTION 1	Permanent Signals
SUBJECT 6	Pull Boxes

Sizes

There are generally four sizes of pull boxes available for use in traffic signal installations:

- 12" x 24"
- 18" x 24"
- 24" x 36"
- 24" x 42"

The engineer *may* use depths up to 48." The engineer *should* refer to the Standard Specifications and Standard Detail Drawings for specific requirements for pull boxes and depth exceptions.

Location

Pull boxes **shall** be constructed of corrugated steel pipe. The selection of material will be dictated by the pull box size and location. Pull boxes **shall not** be installed in asphaltic pavement.

In addition, all 12" pull boxes **shall** have locking covers. All other pull boxes installed away from traffic lanes do not require locking covers.

Pull boxes *should* be located at junctions of two or more conduit lines and as near as possible to roadway loop detectors. Pull boxes provide a point from which cables are to be pulled through the conduit. Pull boxes *should* also be installed:

1. At 200-foot, or less, spacing in conduit runs.
2. At locations where conduits branch.
3. Adjacent to the foundations for signal standards, lighting poles, and controller cabinet.
4. Where loop detector leads are spliced to lead-in cable.

Pull boxes *should not* be located in the sidewalk if an alternate location is possible, as they can present a tripping hazard for pedestrians.