

Section 11: DETECTORS IN CITY STREETS

11.1 Vehicle Detectors in the Work Area

The SFMTA maintains vehicular detector loops at certain signalized intersections. Detector loops are usually marked with rectangular or circular saw-cuts in the pavement, just before the crosswalk line. The loops are usually located within the first four (4) inches of the roadway surface. The Contractor is responsible for making sure that these facilities are not damaged. If these loops are within the work area and could be damaged or affected, the Contractor should follow the procedure below:

- The Contractor shall notify SFMTA Signal Shop at 415.550.2736, 48 hours *before* starting work.
- The Contractor shall obtain a copy of the loop detector plan from SFMTA by emailing trafficpermits@sfmta.com
- At the Contractor's expense, the SFMTA Signal Shop will disconnect wired vehicle detectors prior to the Contractor starting work
- The Contractor shall repair and restore the wired loops, at the Contractor's expense, within seven days of roadway restoration at the site.
- The Contractor shall notify the SFMTA Signal Shop as soon as the wired loop is re-installed for inspection.

11.2 Vehicle Sensors in the Work Area

The SFMTA maintains wireless vehicular sensors at certain signalized intersections. Sensors are shown on the pavement by circular black epoxy dots. The Contractor is responsible for making sure that these facilities are not damaged. If these sensors are within the work area and could be damaged or affected, the Contractor should follow the procedure below:

- The Contractor shall notify SFMTA Signal Shop at 415.550.2736, 48 hours *before* starting work.
- The Contractor shall obtain a copy of the wireless/loop detector plan from SFMTA by emailing trafficpermits@sfmta.com
- At the Contractor's expense, the SFMTA Signal Shop will remove wireless vehicle detectors prior to the Contractor starting work and re-install the detectors after work is completed.

- Wireless detectors shall never be punctured, cut, ground, or removed from solid core. These actions may result in leakage or release of battery contents, explosion, or fire. [Additional safety information can be found at www.able-battery.com/products](http://www.able-battery.com/products).

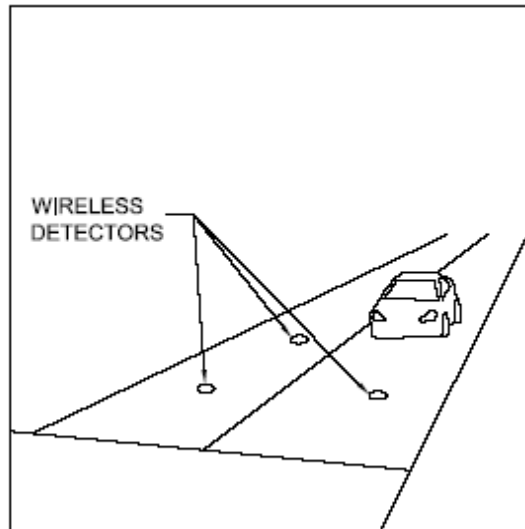


Figure 2: Wireless Detector Schematic

In the field, detectors look like black epoxy dots, approximately four (4) inches in diameter. The Contractor shall notify the SFMTA Signal Shop if it is suspected a detector could be within the work area.

11.3 Bicycle Counter Detectors in the Work Area

SFMTA maintains automatic bicycle counter loops on certain streets. These loops are marked with diamond saw-cuts in the pavement and are in bike lanes at mid-block and intersection locations. The wired loop counters are installed one (1) to three (3) inches below the road surface.

If these detectors are located within the work area and could be subjected to damage by construction, the Contractor is responsible for coordinating their removal with SFMTA. The Contractor should follow the procedure below:

- A. Contractor shall notify SFMTA by emailing bikecounters@sfmta two (2) working days before starting work.
- B. The Contractor shall obtain a copy of the Bicycle Counter Loop Detector plan and the Bicycle Counter Loop Detector Installation Specifications from SFMTA by emailing bikecounters@sfmta.com

- C. At the Contractor's expense, SFMTA Livable Streets will disconnect wired bicycle counter loop detectors prior to the Contractor starting work.
- D. The Contractor shall repair and restore the wired loops, at the Contractor's expense, within seven days of roadway restoration at the site.
- E. The Contractor shall notify SFMTA by emailing bikecounters@sfmta.com as soon as the wired loop is re-installed for inspection.

11.4 SF Park Parking Sensors in the Work Area

If these parking sensors are located within the work area and could be subjected to damage by the construction, the Contractor is responsible for coordinating their removal with SF Park (415.701.4331). The Contractor should follow the procedure below:

- Contractor shall notify SF Park at 415.701.4331 at least five (5) working days before starting work.
- At SF Park's expense, the sensors will be removed and stored prior to the Contractor starting work and reinstall the detectors after the work is completed.
- In the event the Contractor removes or damages the sensors or associated equipment during construction, the Contractor shall notify SF Park and pay for all associated costs for removal, purchase, and installation of the SF Park system's sensors and associated equipment within the work area.

11.5 Other Traffic-Related Devices in the Work Area

In addition to having vehicle loop detectors for signals, some intersections in the City have red light cameras or in-pavement flashing devices. The Contractor should follow the procedures described in Section 11.1 "Vehicular Detectors in the Work Area" when encountering these conditions