



Global Traffic
Technologies

Opticom™ Project Management Services

Intersection and Vehicle Pre-Installation Surveys

June 2008

Intersection Pre-Installation Surveys

Global Traffic Technologies (GTT) will evaluate and document intersection equipment installation and mounting requirements for Opticom™ GPS and Infrared Systems for emergency vehicle preemption and/or transit signal priority as defined at designated intersections.

Customer Prerequisites

- Provide a specific list of intersections including descriptions—with drawings if desired/available.
- Provide mode of operation to facilitate correct equipment selection and specifications.
- Provide and/or agree on a standard preempt wiring and output plan.
- Designate a contact person with the authority to decide any issues relating to installation preferences, operation/activation options and help address installation difficulties.
- Provide any non-standard keys for traffic controller cabinet access and/or a maintenance representative if required.
- Provide traffic controller cabinet equipment configuration data as well as preemption software/firmware capability for all controllers at designated intersections.
- Obtain or assist in obtaining all necessary permits along with contact information.

GTT Project Management Processes

- Visit each intersection and determine the optimal location of the Opticom™ GPS Radio Unit or Opticom™ Detector ensuring that view of all approaches or view of the sky for each approach is adequate.
- Develop a flowchart detailing the location of Opticom GPS radio units or Opticom detectors with installation information such as mounting hardware type (mast arm, span wire, etc.)
- Determine the number of phases required and auxiliary equipment needed for each intersection.
- Verify presence of a preempt-capable controller, with compatible interface panel.
- Make note of any special conditions that may require non-standard installation or mounting.
- Create a list of brackets, poles, and miscellaneous hardware needed for each intersection.
- Estimate amount of cable needed.
- Determine if a card rack (if applicable) and/or external power supply are needed.
- Assess police and/or traffic control requirements prior to installation.
- Determine if special permits will be required to perform intersection installations.
- Document the survey recommendations detailing suggested equipment and equipment placement.
- Obtain survey acceptance from the authorizing agency.

Vehicle Pre-Installation Surveys

Global Traffic Technologies (GTT) will evaluate and document vehicle equipment installation and mounting requirements for Opticom™ GPS and Infrared Systems for emergency vehicle preemption and/or transit signal priority as defined for designated vehicles.

Customer Prerequisites

- Provide a specific list of all user vehicles with descriptions.
- Identify vehicle maintenance facility addresses and phone information.
- Provide a scheduling contact person for each facility.
- Facilitate correct equipment selection based on vehicle specifications.
- Provide and/or agree on a standard wiring plan for each vehicle category.
- Designate a contact person authorized to resolve any issues relating to pre-installation preferences, operation and activation options, and help address issues during vehicle installations.
- Obtain or assist in obtaining all required agency permits and contact information.

GTT Project Management Processes

- Visit each vehicle maintenance facility and determine the optimal location of the Opticom™ GPS Radio Unit or Opticom™ Emitter for each vehicle in the fleet.
- Determine the location of all other required equipment.
- Determine the cable/wire routing requirements and document via vehicle wiring drawings if needed.
- Make note of vehicle operating conditions that may require non-standard installation or mounting.
- Create a list of hardware needed for each vehicle.
- Determine if permits will be required to perform vehicle installations.
- Document survey recommendations, detailing vehicle equipment and equipment placement.
- Obtain survey acceptance from the authorizing agency.



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