City of Saratoga

Iteris Video Detection System Installation
(Future Saratoga Avenue Adaptive System)

Introduction:
The City of Saratoga – Iteris Video Detection System Installation project includes the installation of City-furnished Iteris Vantage Next video detection system at six (6) intersections within the City of Los Altos:

1. Saratoga Avenue & Cox Avenue
2. Saratoga Avenue & Vineyard Lane
3. Saratoga Avenue & Dagmar Drive
4. Saratoga Avenue & Scotland Drive
5. Saratoga Avenue & Fruitvale Avenue
6. Fruitvale Avenue & Allendale Avenue

Work Scope:
The contractor selected for this project will be responsible for the installation the City-furnished Iteris Vantage Next video detection systems for this project. City-furnished materials include:

- Video Detection Cameras, Housings, and Visors,
- Video Detection Camera Mounting Brackets
- Iteris Vantage Next Processor Units, I/O Expansion Boards, and all other Cabinet Peripherals
- Surge Protector units
- Outdoor-rated network cables
- Programming assistance by Iteris staff

Task 1 – Traffic Signal Conduit Network Verification
The contractor will be responsible for validating the traffic signal conduit networks identified on the project improvement plans. The traffic signal conduit networks shown are based on record drawing information and are not field verified. The contractor must field verify the traffic signal conduit networks manually and shall notify the City immediately through a Request for Information (RFI) regarding any discrepancies identified during the field investigation process.

Task 2 – Outdoor-Rated Network Cable Installation
The contractor shall install city-furnished outdoor-rated network cables to the locations identified on the project plans. A minimum of one (1) outdoor-rated network per traffic signal pole with a video detection camera identified on it is required, locations with two (2) cameras identified will require two (2) outdoor-rated network cables, etc.

The contractor may use existing DLC's as pull wires to install new video detection cables but a new DLC must be provided for re-termination onto existing loops if activation of the new video-detection cameras exceeds will not occur on the same day as the outdoor-rated network cable installation so to avoid intersections without detection for more than one day.

Task 3 – Iteris Video Detection Camera Installation and Setup
The contractor shall mount the Iteris video detection cameras and brackets at the locations identified on the improvement plans for this project. The contractor shall work with the City Engineer to confirm camera mounting locations. The City assumes installation of the video detection cameras on luminaire arms or along the traffic signal pole standard pole shaft to maximum height and viewing angle of the cameras.

Upon installation of the video detection cameras, the contractor shall connectorized the outdoor-rated network cables and connect the field end of the cable to the video detection camera.

The traffic signal cabinet end of the cables shall also be connectorized for future connection in Task 4.

Video detection camera, mounting bracket installation, and cable connector and termination shall be per Iteris recommended installation practices.

Task 4 – Iteris Video Detection Processor Equipment Installation
The contractor shall mount the Iteris Vantage Next video detection processor and other peripheral equipment within the traffic signal cabinet at each project intersection. Iteris Vantage Next equipment includes processor unit, surge protection equipment, network cables, I/O 32 expansion boards, and communications boards.

Upon installation of the Iteris Vantage Next equipment within the traffic signal cabinet, the Contractor shall coordinate with Iteris technicians to aim the video detection cameras from Task 3. Upon confirmation of optimal viewing angle of the cameras, the contractor shall lock down the video detection cameras for final placement.

Task 5 – Iteris Video Detection Programming
The contractor shall coordinate with Iteris technicians to program the video detection equipment for operation of each traffic signal. Included within the plan sets for each intersection are preferred detection channel assignments for each intersection upon activation of the video detection systems.