

## **XX005723 VIDEO DETECTION SYSTEM COMPLETE INTERSECTION (LCDOT)**

Effective: October 1, 2016

Revised: March 1, 2019

LC801.03

**Description:** This work shall consist of furnishing and installing a system that monitors vehicles on a roadway via the processing of video images and that provides detector outputs to a traffic signal controller. This work shall consist of furnishing and installing video cameras, cables, video processors, a controller interface unit, and a remote communication module to operate the video vehicle detection system at one signalized intersection.

**Materials:** The Video Detection System Complete Intersection shall be one of the following systems:

- Autoscope Vision
- Iteris Vantage Next

All the cables from the detection cameras to the traffic signal cabinet and within the traffic signal cabinet itself shall be included in the cost of this item.

Surge protection and grounding shall be provided to protect the video detection cameras and components located in the traffic signal cabinet.

The system shall have anonymous FTP capabilities disabled by the vendor/equipment supplier or provide a feature for the user to disable the functionality through the standard internal menu.

**Installation:** The video detection camera shall be installed on top of the luminaire arm. Occasionally overhead utility wires may obstruct the camera's field of view and prevent proper detector placement. In the event of an obstructed view, the camera shall be installed on a J-hook below the luminaire arm, instead of the normal mounting bracket.

All holes drilled into signal poles, mast arms, or posts shall require rubber grommets to prevent the chafing of wires.

If the Video Detection System Complete Intersection will be connected to the Gigabit Ethernet network, it shall communicate over 10/100 Base T Ethernet to a Layer II (Datalink) Switch and/or a Layer III (Network) Switch. Layer II and Layer III switches shall be installed as shown on the plans.

The Video Detection System Complete Intersection shall be warrantied, free from material and workmanship defects for a period of three years from final acceptance.

**Basis of Payment:** This item will be paid for at the contract unit price per each for VIDEO DETECTION SYSTEM COMPLETE INTERSECTION. *The unit price shall include all associated equipment, hardware, cables, materials and labor required to install the system at one signalized intersection and in operation to the satisfaction of the Traffic Engineer.* If required, the cost of the J-hook shall be included in the cost of VIDEO DETECTION SYSTEM COMPLETE INTERSECTION. If required, the LAYER II (DATALINK) SWITCH and/or the LAYER III (NETWORK) SWITCH will be paid for separately.