DESCRIPTION

Under this item of work the Contractor shall install and make operational CCTV cameras, controllers and camera pole assemblies, furnished by others, at locations as shown on the Plans or as directed by the Engineer.

MATERIALS

Items Furnished by Others

The items to be furnished by others are manufactured by Diamond Electronics and MG², items to be furnished include:

- CCTV camera; lens; pan and tilt unit
- Weather dome assembly
- CCTV controller cabinet complete with required camera control electronics
- 15.2 meter CCTV camera pole with anchor bolts
- 12.2 meter CCTV camera pole with anchor bolts
- Camera lowering device assembly for CCTV camera poles: this device contains pole top junction box, cable assembly, contact assembly and lowering cable.

Items Furnished by Contractor

The items to be furnished by the Contractor, as a minimum, shall include but is not limited to those as specified below.

- Required cabling: Control and power cable between camera assembly and ground mounted CCTV controller, Diamond Electric P/N 849518-0361; coaxial cable with connectors as specified by the manufacturer.

- Ferrite coils or radio frequency suppression devices as specified by the Diamond Electronics.

CONSTRUCTION DETAILS

Equipment to be furnished by others, the Contractor shall provide the Engineer with a written inventory of items received and condition. Once received, the equipment becomes the responsibility of the Contractor.

Equipment to be furnished by others, the Contractor shall provide all labor and equipment to remove equipment from the designated storage facility and transport to installation location.

All equipment shall be installed in accordance with manufacturer instructions or as directed by the Engineer.

If the camera has phase-adjusted line lock, the Contractor shall adjust the locking point so that all the cameras are synchronized and the picture doesn’t roll when the user switches from one
camera to another.

All incidental parts which are necessary to complete the installation, but are not specified herein or on the Plans, shall be provided as necessary to provide a complete and properly operating system.

The Contractor, if required, shall install ferrite coils or other radio frequency (RF) suppression devices for RF interference to CCTV field equipment being installed under this Contract.

All communication connections shall be through fiber optic cable, fiber optic modem, fiber optic cable patch panel, fiber optic patch cords, data cables and/or terminal blocks.

Grounding shall be in accordance with Section 680-3.12 of the Standard Specifications. All connections to the ground rod shall be made with an exothermic welding process.

Testing and documentation shall be as specified in these Contract documents.

**METHODS OF MEASUREMENT**

The Installation of Diamond Electric CCTV Cameras and Assembly, furnished by others, will be measured for payment as the number of sites installed, made fully operational and tested.

The Installation of Diamond Electric CCTV Camera Pole Assembly, furnished by others, will be measured for payment as the number of units installed.

**BASIS OF PAYMENT**

The unit price bid for each Installation of Diamond Electric CCTV Cameras and Assembly, furnished by others, shall include the cost of furnishing all labor, materials, tools, equipment and incidentals as necessary to complete this item of work.

The unit price bid for Installation of Diamond Electric CCTV Camera Pole Assembly, furnished by others, shall include the cost of furnishing all labor, materials, tools, equipment and incidentals as necessary to complete this item of work.

Testing and documentation will be paid under a separate bid item.

Progress payment will be made as follows:

Fifty percent (50%) of the bid price for each item will be paid when the equipment is installed. Twenty percent (20%) of the bid price for each item shall be paid upon successful completion of Operational Tests. Twenty percent (20%) of the bid price for each item shall be paid upon successful completion of System Acceptance Tests. Ten percent (10%) of the bid price for each
ITEM 04680.9316 M - INSTALLATION OF DIAMOND ELECTRONICS CCTV CAMERAS AND ASSEMBLY – FURNISHED BY OTHERS

ITEM 04680.9542 M - INSTALLATION OF DIAMOND ELECTRONICS CCTV CAMERA POLE ASSEMBLY – FURNISHED BY OTHERS

item shall be paid upon successful completion of the Final Acceptance Test.