

10/1/2014

**ADDENDUM NO. 1
to the
Iowa Department of Transportation
Security Camera Installation for Various DL Stations
Proposal No.: 12903**

To all bidders:

This Addendum is issued to incorporate the following additions, deletions, corrections, and clarifications to the Specifications and is hereby made a part of the Contract Documents. This Addendum shall supersede, modify and/or change all statements or drawings to the contrary in the Plans and Specifications and shall take precedence over these documents.

Change:

Remove DVTel from the accepted manufacturers per revised specifications.

All Bidders must sign and return this Addendum Acknowledgement Form with your bid and/or acknowledge this Addendum in the Schedule of Prices. Failure to do so may subject the Bidder to disqualification. If you have already submitted your bid, this Addendum may be faxed/e-mailed to Purchasing (information below) prior to the scheduled letting.

Bidder is responsible to confirm Purchasing has received the signed addendum. The Bidder has the singular responsibility to make this Addendum available to all sub-bidders.

Company Name

Signature

Sincerely,



Mary Zimmerman, Senior Purchasing Officer
Iowa Department of Transportation
Purchasing Section
Phone No. 515-239-1298 Fax No. 515-239-1538
mary.zimmerman@dot.iowa.gov

SECTION 28 2300
VIDEO SURVEILLANCE

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Video surveillance system requirements.
- B. Accessories.
- C. Cameras.
- D. Cable and accessories.

1.02 RELATED REQUIREMENTS

- A. Section 26 0526 - Grounding and Bonding for Electrical Systems.
- B. Section 26 0529 - Hangers and Supports for Electrical Systems.
- C. Section 26 0553 - Identification for Electrical Systems: Identification products and requirements.
- D. Section 28 1600 - Intrusion Detection: For interface with video surveillance system.
- E. Section 28 1300 - Access Control: For interface with video surveillance system.

1.03 REFERENCE STANDARDS

- A. NECA 1 - Standard for Good Workmanship in Electrical Construction; National Electrical Contractors Association; 2010.
- B. NECA 303 - Standard for Installing Closed-Circuit Television (CCTV) Systems; National Electrical Contractors Association; 2005.
- C. NFPA 70 - National Electrical Code; National Fire Protection Association; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's standard catalog pages and data sheets for each system component. Include ratings, configurations, standard wiring diagrams, dimensions, finishes, service condition requirements, and installed features.
- C. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and operation of product.
- D. Operation Data: Instructions for starting and operating system.
- E. Maintenance Data: Routine trouble shooting procedures.

1.05 QUALITY ASSURANCE

- A. Comply with the following:
 - 1. NFPA 70
 - 2. Applicable TIA/EIA standards.
- B. Conform to requirements of NFPA 70.
- C. Supplier Qualifications: Authorized distributor of specified manufacturer with minimum 5 years documented experience.
- D. Installer Qualifications: Authorized installer of specified manufacturer with service facilities within 200 miles of Project.
- E. Products: Furnish products listed and classified by Underwriters Laboratories Inc. as suitable for purpose specified and indicated.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Video Management System:
 - 1. Avigilon, NVMS.
- B. Cameras:
 - 1. Avigilon: High Def H.264 Day/Night IP Dome Camera Series 2.0MP-HD-H264-D1. (Type 2)
 - 2. Avigilon: High Def H.264 Day/Night IP Dome Camera Series 1.0MP-HD-H264-D1. (Type 1)
- C. Video Recorders:
 - 1. Avigilon: NVR.

2.02 VIDEO SURVEILLANCE SYSTEM

- A. Provide new video surveillance system consisting of all required equipment, conduit, boxes, wiring, connectors, hardware, supports, accessories, software, system programming, etc. as necessary for a complete operating system that provides the functional intent indicated.
- B. System Description: IP system with connection to network (IP) cameras.
- C. Provide products listed, classified, and labeled by Underwriter's Laboratories Inc. (UL), Intertek (ETL), or testing firm acceptable to authority having jurisdiction as suitable for the purpose indicated.
- D. Electromagnetic Interference/Radio Frequency Interference (EMI/RFI) Limits: Comply with FCC requirements of CFR, Title 47, Part 15, for Class B, consumer application.
- E. Video Surveillance System: Provide video communications between points of surveillance indicated on Drawings and central monitoring station.

2.03 COMPONENTS

- A. Cameras: General purpose video camera.
 - 1. Lens: Zoom 3 mm to 9 mm lens with automatic iris.
 - 2. Ratings:
 - a. Input Power: 24 volts, 60Hz.
 - b. Scene Illumination: .2 Lux fc for usable picture, 1 fc for full video.
 - c. Signal to noise: 44 dB, minimum.
 - 3. Power Supply: Integral.
 - 4. Housing: Indoor/Outdoor.

2.04 ACCESSORIES

- A. Provide components as indicated or as required for connection of video surveillance system to devices and other systems indicated.
- B. Provide network switches as required for network connections to system components.
- C. Provide cables as indicated or as required for connections between system components.
- D. Provide accessory racks/cabinets as indicated or as required for equipment mounting.
- E. Branch Video Cable: CAT6 blue patch cable.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install video surveillance system in accordance with NECA 1 (general workmanship) and NECA 303.
- B. Install products in accordance with manufacturer's instructions.
- C. Provide required support and attachment in accordance with Section 26 0529.
- D. Provide grounding and bonding in accordance with Section 26 0526.

- E. Identify system wiring and components in accordance with Section 26 0553.
- F. Use branch video cable for circuits less than 500 feet; use main video cable for circuits longer than 500 feet. Provide equalizing amplifier for circuits longer than 100 feet.

3.02 INTERFACE WITH OTHER PRODUCTS

- A. Interface installation of video surveillance with security access and intrusion detection systems.

3.03 FIELD QUALITY CONTROL

- A. See Section 01 4000 - Quality Requirements, for additional requirements.
- B. Prepare and start system in accordance with manufacturer's instructions.
- C. Adjust cameras to provide desired field of view and produce suitable images under all service lighting conditions.
- D. Program system parameters according to requirements of Iowa Department of Transportation.
- E. Test for proper interface with other systems.
- F. Correct defective work, adjust for proper operation, and retest until entire system complies with contract documents.
- G. Provide the services of manufacturer's technical representative to prepare and start systems and supervise final wiring connections and system adjustments.

3.04 ADJUSTING

- A. Adjust manual lens irises to meet lighting conditions.

3.05 CLOSEOUT ACTIVITIES

- A. Demonstrate system operation and provide two hours of instruction with manufacturer's training personnel.
- B. Conduct walking tour of project and briefly describe function, operation, and maintenance of each component.

3.06 MAINTENANCE

- A. Provide a separate maintenance contract for specified maintenance service.
- B. Provide service and maintenance of system for one year from Date of Substantial Completion.

END OF SECTION