

**DEPARTMENT OF LAND AND NATURAL RESOURCES
DIV. OF STATE PARKS
Royal Mausoleum State Monument
2261 Nuuanu Ave.
Honolulu, HI 96817**

Closed-Circuit Television (CCTV) System, Monitoring, and Maintenance Service

The Department of Land and Natural Resources, Division of State Parks, is interested in procuring bids for a contractor to supply equipment, install, monitor, and service a closed-circuit television (CCTV) security system at the Royal Mausoleum State Monument as described herein.

Scope of Work:

1. Include Equipment and Workmanship Warranty for the installation of the CCTV system.
2. Bidder shall furnish all labor, materials, and equipment necessary for the installation of the closed-circuit television (CCTV) system as described herein.

CLOSED-CIRCUIT TELEVISION SYSTEM

System Description:

Provide a closed-circuit television (CCTV) system complete with all cameras, cabling, connectors, backboxes, raceway, equipment racks, headend equipment, monitoring equipment, recording equipment and software to provide a complete and operable system.

CCTV system shall be connected to a dedicated CCTV network backbone.

All software shall be formatted, installed, and programmed in compliance with the recommendations of the manufacturer.

QUALITY ASSURANCE:

Comply with all laws, ordinances, rules, regulations, and orders of public authorities having jurisdiction over this part of the work. This includes but is not limited to having all necessary licenses, permits and inspections as required by local, state, or federal authorities.

CCTV equipment standards: Electronic Industries Association (EIA) Standards, IEEE.

System Manufacturer:

Provide CCTV System equipment as the products of one manufacturer to assure compatibility, warrantability, serviceability and continuity of components.

Provide CCTV system NVMS equipment as the products of one manufacturer to assure compatibility, warrantability, serviceability, and continuity of components.

Provide CCTV equipment manufactured by one firm specializing in the manufacture of such equipment as evidenced by not less than ten (10) consecutive years producing equipment of complexity and performance as required here- in. Contractor must provide evidence of such experience to Project Manager upon request.

Contractor Qualifications:

The Contractor or Systems Integrator shall be a Certified Dealer of the installed CCTV system.

Submittals for Approval:

Product Data: Provide data for each component specified showing electrical characteristics and connection requirements.

Materials list and backbox schedule (including any unique backboxes).

Technical Data Sheets on each product, including finishes and dimensions.

Description of system operation.

Manufacturer's Data:

Installation Instructions: Indicate application conditions and limitations of use stipulated by Product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and starting of Product.

Shop Drawings:

Indicate electrical characteristics and connection requirements, including layout of completed assemblies, interconnecting cabling, dimensions, weights, and external power requirements.

Riser diagrams per building showing network switching, cabling, cameras, power supplies, storage devices, ancillary, and equipment.

Riser diagrams showing building interconnection to the CCTV network.

Provide network video recorder (NVR) minimum storage calculations to demonstrate (30) days of storage will be provided for each camera Rack space requirements for all CCTV equipment.

As-Built Data:

Update shop drawings to conform to actual installation.

Operations and Maintenance (O&M) Manuals.

Provide updated information for all Product Data.

Provide updated information for all Manufacture's Data.

Provide system programming documents and a copy of the system program on DVD disks in the Software Manual.

Provide all source codes and licenses for the CCTV system in the Software Manual.

PRODUCTS

GENERAL

IP Based Equipment Manufacturers: Avigilon or approved equal.

Network video recording system shall be as manufactured by Avigilon HDNVR Premium or approved equal.

IP BASED (3) Outdoor Camera System:

Camera shall be triple power with 12-24 VDC, 24 VAC, and Power over Ethernet (POE) capabilities (IEEE802.3af Class 3 compliant) as standard on the camera.

Video and Image Compression method shall be JPEG2000 for second streaming functionality and recording when required.

Camera shall include web browser that shall be accessible via Internet Explorer 7.0 or higher, PDA, and Smart Phone technology.

Camera shall be fully ONVIF compliant and fully certified. Camera shall also be IP66 and UL listed.

Camera shall include an aluminum rugged housing with polycarbonate dome. Security screws shall be available on the camera. Conduit opening shall be available on the side and rear of the dome housing for easy access and installation.

Cameras as indicated below: Avigilon or approved equal.

270 3x8 Megapixel Cameras:

The camera shall be able to provide image quality needed to cover larger areas, camera shall include self-learning video analytics on all sensors with IR.

The camera shall be Avigilon Model 24C-H4A-3MH-270 3x8 MP, WDR, Light Catcher, 4mm or approved equal.

16 Megapixel Camera:

Up to 10K HD, with stunning image detail, simultaneously providing maximum scene coverage, minimizing bandwidth and storage consumption with patented High Definition Stream Management™ (HDSM) 2.0 technology with IR and analytics or approved equal.

*H.264 AND H.265 WITH HDSM SMARTCODEC™ TECHNOLOGY
*TRUE WIDE DYNAMIC RANGE
*ONVIF® COMPLIANT
*FIPS 140-2 COMPLIANT

The camera shall be Avigilon 5K 16mp H5 Pro Camera with 16-35mm lens or approved equal.

Include speakers for talk down capabilities.

NETWORK VIDEO MANAGEMENT SYSTEM

The Video Management Software (VMS) shall meet the requirements of corrections grade surveillance applications. The software shall be unique and power a line of Network Video Recorders, IP Cameras and Work- stations. The software shall provide a complete and comprehensive application for the operation and maintenance of a video surveillance system. It shall provide full live digital video and two-way audio talk down.

The software shall offer features including the simultaneous display, playback, distribution, and archive of multiple channels of video and audio. Cameras, microphones, and sensors shall be the primary input devices. Each channel of video and audio data shall have the capability of being displayed, played back, distributed, and archived simultaneously.

A web-based interface shall be provided to access the VMS from any standard web browser enabled device. It shall provide live viewing, and playback.

The software shall provide the ability to save any event that was tagged as an alarm (video motion detection, video loss or input received from the EVM system to be saved to a separate database, where it cannot be overwritten. The feature shall be named Video Vault.

The system shall provide alarm notification via e-mail, text messaging, and workstation text. Macros shall be created to view/listen and record video and audio, trigger alarms over the network and send email or text message for alarms or on schedule.

The System shall include Video Monitoring by a 24/7 UL-2050 Certified Central Monitoring Station Department of Defense (NSPOM CRZH).

System Software shall be Avigilon Control Center (ACC) 7-Enterprises Level License/Software or approved equal. Latest version available at time of purchase.

Enterprise level licensing for the System Software shall be required so as not to limit the number of camera connections or concurrent viewing connections because of limitations within the software.

NETWORK VIDEO RECORDER (NVR) STORAGE

Storage for video shall be provided, and it shall be RAID6 configured storage for (30) days.

Cameras shall always be recorded at 15 frames per second at full resolution. There shall be motion in the field of view 50% of the time in any given 24-hour period. Storage requirements shall be calculated based upon these parameters.

Provide calculations showing adequate capacity for cameras and recording specified.

RAID storage shall use a combination of hard drives that shall include a 3-year warranty for reliability and service functionality.

EXECUTION

INSTALLATION:

Install in accordance with manufacturer's instructions.

Install all wiring in metallic conduit, minimum size 3/4", dedicated for CCTV system wiring only. Wiring shall be installed without splices.

No trenching will be allowed on the property.

The Contractor shall be responsible for confirming and following all state and local electrical code requirements. Any deviation from state or local electrical code requirements shall be repaired at contractor's expense.

CAMERA MOUNTING:

Prior to field installation, the Contractor shall verify cameras are suitable for mounting within specified enclosures. Adjust camera/enclosure combinations, as necessary.

Field verify all mounting requirements for each camera and housing. Provide all necessary mounting brackets.

TESTING:

Test all systems to ensure proper performance.

INTERACTIVE VIDEO MONITORING:

Interactive Video Services w/Self-Learning Video Analytics

Instant Notification to the Monitoring Center

Virtual Guard Services

Effectively detect the presence of humans and vehicles

Video Verification when an alarm is triggered

Rapid Response with two-way audio

Facial Recognition

The scheduling for the installation of the security system shall be coordinated with Eric Kato, Parks Program Manager prior to the commencement of work. His contact number is (808) 733-9102 (office) or (808) 265-2790 (cell).

Workmanship and materials shall conform to the State Building Code of Hawaii (IBC, 2006 Edition as amended by the City and County of Honolulu). However, where reference is made to performance conforming to other standards the more stringent shall apply.

Should the Bidder fail to conform to the requirements herein, the Bidder shall immediately remedy any defects due to faulty workmanship. Should the Bidder fail to comply, the State reserves the right to terminate the service.

SPECIAL PROVISIONS

The bid award shall be based on the availability of funds. State Parks reserves the right to cancel the agreement with thirty 30 days advance written notice.

Term. The bid shall be for the twelve (12) month period commencing from the Notice to Award with requests for services through the State Purchase Orders.

Contract Renewal.

Upon mutual agreement between the Contractor and the State, the contract for the interactive video monitoring service and the repair and maintenance of the equipment may be extended for an additional year, up to a maximum of four (4) years. The State will allow for a maximum of three (3) percent increase in cost per year for the monitoring service and the repair and maintenance contract.

Bidder Qualifications. Bidder shall possess a valid State Contractor's License, classification C15 or C-15a. Bidder shall provide a copy of the license. Award will not be made to any Bidder failing to meet this qualification requirement.

Bidder shall also have a permanent office location from where he/she conducts business and where he/she will be accessible to telephone calls regarding complaints or requests that need immediate attention. An answering service is acceptable provided a response is made within one (1) hour of the initial call.

Bidder shall have adequate equipment and number of employees to perform and complete the work specified herein within the period specified.

Bidder shall be compliant through Hawaii Compliance Express (HCE) pursuant to Chapter 103D, Hawaii Revised Statutes. Vendors/contractors/service providers should register with HCE prior to submitting an offer at <https://vendors.ehawaii.gov>. The annual registration fee is \$12.00, and the "Certificate of Vendor Compliance" is accepted for the execution of contract and final payment. Vendors/contractors/service providers are advised to register on HCE soon as possible. If a vendor/contractor/service provider is not compliant on HCE at the time of award, the Bidder will not receive the award.

Site Inspection. Prior to submittal of an offer, Bidder may inspect the location to thoroughly familiarize themselves with existing conditions, rules and regulations, and the extent and nature of work to be performed. Bidder inspection is not mandatory; however, submission of an offer shall be evidence that the Bidder understands the scope of the service and shall comply with specifications herein, if awarded the contract. No additional compensation, subsequent to bid opening shall be allowed by reason of any misunderstanding or error regarding site conditions or work to be performed.

A pre-bid site inspection will be held on Thursday, October 6, 2022, at 10:00am at the Royal Mausoleum State Monument, 2261 Nuuanu Ave., Honolulu, HI 69817. Contact Eric kato if you have any questions regarding the site inspection at (808)265-2790.

Bid Quotation. Unit bid price shall include labor, materials, equipment, and all applicable taxes and any other costs incurred to provide services specified.

Certificate of Insurance.

Provide a Certificate of Insurance naming the state as additional insured.

DLNR
Div. of State Parks
1151 Punchbowl St., Rm. 310
Honolulu, HI 96813

Liability Insurance

The Bidder shall provide a Certificate of Insurance with the following minimum insurance coverage(s) and limit(s):

<u>Coverage</u>	<u>Limits</u>
Commercial General Liability	\$1,000,000 combined single limit per occurrence for bodily injury and property damage \$2,000,0000 general aggregate
Automobile Liability	\$1,000,000 combined single limit per occurrence \$1,000,000 bodily injury per person and per accident \$1,000,000 property damage per accident

Each insurance policy required by this contract, including a subcontractor's policy, shall contain the following clauses:

1. "This insurance shall not be canceled, limited in scope of coverage or non-renewed until after 30 days written notice has been given to the State of Hawaii, Department of Land and Natural Resources, Division of State Parks, 1151 Punchbowl St., Rm. 310, Honolulu 96813.
2. "The State of Hawaii is added as an additional insured as respects to operations performed for the State of Hawaii."
3. "It is agreed that any insurance maintained by the State of Hawaii will apply in excess of, and not contribute with, insurance provided by this policy."

The minimum insurance required shall be in full compliance with the Hawaii Insurance Code throughout the entire term of the contract, including supplemental agreements. Prior to the commencement of the work, the Contractor agrees to deposit with the State of

Hawaii certificate(s) of insurance necessary to satisfy the State that the insurance provisions have been complied with.

Failure of the Contractor to provide and keep in force such insurance shall be regarded as material default, entitling the State to exercise any or all of the remedies provided for the termination of services. The procuring of such required insurance shall not be construed to limit

Contractor's liability hereunder nor to fulfill the indemnification provisions and requirements. Notwithstanding said policy or policies of insurance, Contractor shall be obliged for the full and total amount of any damage, injury, or loss caused by negligence or neglect connected with the services.

Applicable Laws. The Bidder shall comply with all applicable laws of the federal, state and county governments to include but not limited to laws relating to workers' compensation, unemployment compensation and worker safety.

Due Care. The Bidder and its employees shall use due care for the public's safety in its operations and shall be responsible for its own actions.

Start of Work. Work will commence as indicated on the purchase order(s) issued by the Department of Land and Natural Resources.

Time of Completion. The work shall be completed within one hundred twenty (120) working days from the commencement date on the purchase order or as indicated by the Oahu District Superintendent. In the event the Bidder fails to complete the work within the specified period, liquidated damages will be assessed.

Liquidated Damages. Liquidated damages are fixed at a sum of ONE HUNDRED DOLLARS (\$100.00) per each calendar day the Bidder fails to perform in whole or in part any of his obligations specified herein. Liquidated damages, if assessed, may be deducted from any payments due or to become due to the Bidder.

Campaign Contributions. CAMPAIGN CONTRIBUTIONS BY STATE AND COUNTY CONTRACTORS PROHIBITED If awarded a contract in response to this solicitation, Offeror agrees to comply with HRS §11-355, which states that campaign contributions are prohibited from a State and county government contractor during the term of the contract if the contractor is paid with funds appropriated by the legislative body between the execution of the contract through the completion of the contract.

Indemnification. The Contractor shall agree, in behalf of its employees, subcontractors, and other representatives acting upon its behalf, indemnify, defend, and hold harmless DLNR, its officials, employees, representatives, and agents, against any claim or liability, including all loss, damages, costs, expenses, attorney fees, and penalties, for any damage to real or personal property, including environmental damage, or injury to or death of persons, or violations of or noncompliance with applicable law, when such penalties, damage, injury or death results from, arises out of, or is connected with the completion of the project.

Invoice.

Bidder shall send an original invoice upon completion of all services listed in the purchase order. The original shall state that "This is an original invoice" with two (2) copies, shall be signed and sent to:

Department of Land and Natural Resources
Division of State Parks
480 Makapuu Ave.
Honolulu, HI 96816