

**CITY OF FEDERAL WAY
REQUEST FOR PROPOSAL**

I. PURPOSE OF REQUEST.

The City of Federal Way (“City”) is requesting proposals for the purpose of *Steel Lake Shop Video Security Enhancements*. The City’s needs are outlined in the following Request for Proposal (“RFP”).

II. TIME SCHEDULE.

The City will follow the following timetable:

Issue RFP	8/13/2021
Deadline for Submittal of Proposals	9/2/2021 2:00pm
Preliminary Selection of Firm	9/7/2021
Notify Firm Chosen	9/8/2021

III. INSTRUCTIONS TO PROPOSERS.

A. All proposals should be sent to:

Sherri Nelson, Administrative Assistant II
City of Federal Way
33325 8th Ave S
Federal Way, WA 98003-6325
(253) 835-2526
Sherri.nelson@cityoffederalway.com

B. If submitted on paper, all proposals must be in a sealed envelope and clearly labeled in the lower left-hand corner. If submitted by email, all proposals must be clearly labeled in the subject line. The label shall identify the contents as “RFP – Steel Lake Shop Video Security Enhancements”

C. All proposals must be received by the Deadline for Submittal of Proposals detailed in II. Time Schedule, at which time they will be opened. Faxed or telephone proposals will not be accepted.

D. Proposals should be prepared simply and economically, providing a straight forward, concise description of provider capabilities to satisfy the requirements of the request. Special bindings, colored displays, promotional materials, etc. are not desired. Emphasis should be on completeness and clarity of content. Use of recycled paper for requests and any printed or photocopied material created pursuant to a contract with the City is desirable whenever practicable. Use of both

sides of paper sheets for any submittals to the City is desirable whenever practicable.

E. The Contract Administrator, Autumn Gressett, or representative will notify the firm selected by the date stated in II. Time Schedule.

F. All proposals must include the following information:

- The names of individuals from those firms who will be working on the project and their areas of responsibility.
- Specific experience of individuals relative to the proposed project.
- A proposed outline of tasks, products and project schedule, including the number of hours required to complete each task or product.
- A proposed budget based on the above outline of tasks, products and schedules.
- References.

IV. SELECTION CRITERIA.

<u>Factor</u>	<u>Weight Given</u>
1. Responsiveness of the written proposal to the purpose and scope of service.	40%
2. Price.	30%
3. Ability and history of successfully completing contracts of this type, meeting projected deadlines and experience in similar work.	30%
<u>Total Criteria Weight</u>	100%

Each proposal will be independently evaluated on factors one through three.

V. TERMS AND CONDITIONS.

A. The City reserves the right to reject any and all proposals, and to waive minor irregularities in any proposal.

- B. The City reserves the right to request clarification of information submitted, and to request additional information from any proposer.
- C. The City reserves the right to award any contract to the next most qualified contractor, if the successful contractor does not execute a contract within thirty (30) days after the award of the proposal.
- D. Any proposal may be withdrawn up until the date and time set above for opening of the proposals. Any proposal not so timely withdrawn shall constitute an irrevocable offer, for a period of ninety (90) days to sell to the City, the services described in the attached specifications, or until one or more of the proposals have been approved by the City administration, whichever occurs first.
- E. The contract resulting from acceptance of a proposal by the City shall be in a form supplied or approved by the City, and shall reflect the specifications in this RFP. A copy of the contract is available for review and shall include requirements to comply with ADA, Civil Rights Act, and EEO requirements. The City reserves the right to reject any proposed agreement or contract that does not conform to the specifications contained in this RFP, and which is not approved by the City Attorney's office.
- F. The City, as a recipient of federal funding, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-Assisted Programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises as defined at 49 CFR Part 26 will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, or sex in consideration for an award.
- G. The City shall not be responsible for any costs incurred by the firm in preparing, submitting or presenting its response to the RFP.

VI. SCOPE OF SERVICES.

A. SUMMARY

- a. The City of Federal Way is soliciting proposals from qualified firms to provide video security enhancements for the following locations:
 - i. Steel Lake Maintenance Shop,
31130 28th Ave. S., Federal Way, WA 98003
- b. The overall system (devices and operating software) will be used by several City Departments to enhance security to its personnel, users, and properties. The program should be easy to use by a wide variety of people without

- extensive knowledge of video systems and with minimal training.
- c. The RFP includes new camera installations and leveraging the existing Avigilon system into one consistent system.
- d. The system should be expandable.

B. OVERVIEW

- a. The City of Federal Way is seeking proposals from qualified vendors to include all aspects and disciplines of this RFP within a single bid and contract. The interested bidders must be able to provide, install, program, and service all of the electronic systems as well as manage the ongoing services outlined in this RFP (Video Guard Monitoring) without the requirement of subcontractors (Single Source), except as provided in APPENDIX B.
- b. This project includes the provision and installation of the following systems and equipment:
 - i. IP Video Surveillance Cameras
 - ii. Integrated Speaker Alerting System
 - iii. Guard Monitoring Services
 - iv. Wireless and Switching Equipment

C. RELATED DOCUMENTS

- a. Aerial satellite map of the area relating to this request for proposal included for reference in APPENDIX B.
- b. This RFP also includes:
 - i. Verification of dimensions and conditions at each job site.
 - ii. Preparation of submittal information.
 - iii. Installation in accordance with the contract documents, manufacturer's recommendations, and all applicable code requirements.
 - iv. Initial tests and adjustments, written report, and documentation.
 - v. Instruction of operating personnel; provision of manuals.
 - vi. Maintenance services and warranty.

D. REQUIREMENTS AND PROJECT SCOPE

- a. The Scope and Requirements are outlined in the following specifications: APPENDIX B.
- b. See APPENDIX A for Notes and known Exclusions for this project.
- c. Traffic Control. It will be the Contractor's responsibility to provide traffic control as may be necessary or advisable

E. QUALIFICATIONS

- a. See APPENDIX B, 1.7 Quality Assurance.

F. SUBMITTAL REQUIREMENTS AND FORMAT

- a. The following format and sequence should be followed in order to provide consistency in proponent response and ensure each proposal receives full consideration. All pages should be consecutively numbered.
 - i. Bid Proposal cover letter as per sample provided.
 - ii. Table of contents, including page numbers.
 - iii. A short (one or two page) summary of the key features of the proposal. Include an explanation of how the System proposal will be turn-key including but not limited to cabling, installation, terminations, programming, configurations, and end user training.
 - iv. Qualifications of Bidder. Reply to APPENDIX B, 1.7 Quality Assurance with:
 1. Names and qualifications of manufacturer's approved installers you plan to use for this project.
 2. Names and qualifications of the manufacturer's approved programmers and installer you plan to use on this project.
 3. Address the Bidder's Checklist
 4. Provide three (3) references of like-project, operable Video Guard systems within service area listed in contract documents. Include contact name and information. These systems must have been installed, serviced, and be currently operated, monitored, and maintained by the prospective bidder.
- b. Provide a detailed description of contractor's ongoing service and warranty offerings. Price various service plans and extended warranties, list these as option 1, 2, 3, etc., and place consistent ongoing service and warranty offering information on a bid form.
- c. Provide verification of Washington State Business, City of Federal Way Business, and Electrical Contractor licenses.
- d. Subcontractors.
 - i. State the type i.e. Electrical, Mechanical, Consultant, etc. of any subcontractor(s) you plan to use on this project.
- e. Products and Services Information.
 - i. Include manufacturer's cut sheets or descriptive brochures of key components of the project. Include Cameras, Monitoring Services, Video Monitors, and Software Programs.
- f. Implementation Plan and Schedule.
 - i. Describe key points in implementing this project. Include a Gantt Chart type schedule showing project from Notice to Proceed to completion, in days/weeks. Include switchover milestones from existing systems to new, where appropriate, and include where you feel training will be most effective.
- g. Costs.
 - i. Use the "Schedule A – Steel Lake Video Security Enhancements" Proposal Form in APPENDIX C to summarize the project

- construction cost.
 - ii. Use the "Schedule B – Steel Lake Video Security Enhancements - Recurring Charges" Proposal Form in APPENDIX C to summarize costs for Monitoring Service and Service and Extended Warranty Plans.
 - h. Demonstration.
 - i. Depending on the quantity and quality of responses, a short list of proposers may be invited to demonstrate their products and system's capabilities prior to selection of a firm. If necessary, this will be a one (1) hour demonstration at a City facility. At a minimum, proposers should include a "live" demonstration of software capabilities and camera capabilities. Proposers are encouraged to bring actual products to the demonstration.

VII. COMPENSATION.

- A. Please present detailed information on the firm’s proposed fee schedule for the specifications proposed and for any variation for non-routine services, inclusive of Washington state sales tax and any other applicable governmental charges. Please provide specifics as to definitions of routine versus non-routines tasks, what is fixed as opposed to variable, and how costs are adjusted according to that classification.
- B. Payment by the City for the services will only be made after the services have been performed, an itemized billing statement is submitted in the form specified by the City and approved by the appropriate City representative, which shall specifically set forth the services performed, the name of the person performing such services, and the hourly labor charge rate for such person. Payment shall be made on a monthly basis, thirty (30) days after receipt of such billing statement.

VIII. PUBLICATION.

Name of Publication:	Dates:
__Federal Way Mirror_____	_____8/20/2021_____
__Federal Way Mirror_____	_____8/27/2021_____

APPENDIX A
Notes and Exclusions

1. Excludes Video System NVR Server.
2. Requires fiber connection between the Steel Lake Maintenance Shop and Server NVR location. This to be provided and configured by the City.

APPENDIX B

Technical Specifications

1. PART 1 –GENERAL

1.1. PROJECT SUMMARY

The City of Federal Way is soliciting proposals from qualified firms to provide video security enhancements for the following location:

- 1.1.1. Steel Lake Maintenance Shop.

1.2. OVERVIEW

1.2.1. The City of Federal Way is seeking proposals from qualified vendors to include all aspects and disciplines of this RFP within a single bid and contract. The interested bidders must be able to provide, install, program, and service all of the electronic systems as well as manage the ongoing services outlined in this RFP (Video Guard Monitoring) without the requirement of subcontractors except as follows:

- 1.2.1.1. Subcontractors may be used for the provision and installation of conduit and cable.
- 1.2.1.2. The Video Monitoring may be subcontracted to a Video Monitoring Center but must be maintained, programmed, invoiced, and managed, and serviced by the bidder.
- 1.2.1.3. All subcontractors must be clearly listed in the bidder's proposal at the time of bid, along with their specific scope of work being provided, by location.

1.2.2. This project includes the provision and installation of the following systems and equipment:

- 1.2.2.1. IP Video Surveillance Cameras
- 1.2.2.2. Head-End Network Video Recording Software
- 1.2.2.3. Integrated Speaker Alerting System
- 1.2.2.4. Video Guard Monitoring Services
- 1.2.2.5. Wireless and Switching Equipment

1.3. SCOPE OF WORK:

1.3.1. The successful bidder will provide and install the following:

- 1.3.1.1. 11 each of Avigilon, ACC7-ENT with Single Enterprise Software License
- 1.3.1.2. 10 each of Avigilon 6.0-H5A-BO1-IR (6MP Bullet Camera with IR & Analytics)
- 1.3.1.3. 1 each of Avigilon 24C-H4A-3MH-270 (24MP Multi-sensor, 270*, with Analytics)
- 1.3.1.4. 1 each of Avigilon H4AMH-AD-IRIL1 (IR illuminator for Multi-sensor)
- 1.3.1.5. 5 each of L-COM, NB141207-100 (Industrial NEMA Rated Enclosure)
- 1.3.1.6. 7 each of Axis C1310-E (IP Speaker, Outdoor Rated)
- 1.3.1.7. All associated hardware, necessary back boxes, cabling, mounts, amplifiers, lenses, power supplies, software, and head-end equipment.

- 1.3.2. In addition, the successful bidder will complete all required switches and/or POE injectors at each camera location for a complete turn-key IP video surveillance system at the Steel Lake Maintenance Shop.
- 1.3.3. Existing cameras and equipment will be removed and returned to the City. The system will be monitored by a video guard monitoring company as outlined in this RFP. The system will be recorded from an offsite location with the server recording hardware provided by the City.
- 1.3.4. The successful bidder will be responsible for providing all aspects of this RFP including but not limited to the following:
 - 1.3.4.1. Provision and installation of Category 6 Cable.
 - 1.3.4.2. Provision and installation of conduit raceways
 - 1.3.4.3. Provision and installation of Misc. Low Volt Cable.
 - 1.3.4.4. Provision and installation of 120V Outlets (as needed).
 - 1.3.4.5. Provision, installation, and programming of Network Interface Equipment (Switches, Patch Panels, Etc.).
 - 1.3.4.6. Provision, installation, and programming of NVR Software.
 - 1.3.4.7. Provision, installation, and programming of IP Cameras.
 - 1.3.4.8. Provision and installation of “voice down” Speaker System
- 1.3.5. The Video Guard System shall provide services to cover all aspects of the RFP including but not limited to the following:
 - 1.3.5.1. Provision of a minimum of 200 analytic alarm events per month.
 - 1.3.5.2. Provision of a minimum of one (1) video patrol for each camera every hour between the time of 17:30-04:45, 365 days per year.
 - 1.3.5.3. Provision of analytic capabilities in the camera software for detection of persons or vehicles, user defined alarms defined by sensitivity, time limits, and user defined “Regions of Interest”.
 - 1.3.5.4. The Analytic cameras shall be ‘Video Guard Ready’ ensuring that all analytic camera programming, setup, configuration, testing, etc. shall be setup for each camera.
 - 1.3.5.5. The Analytic cameras shall be configured to the video monitoring center and setup so the site is active.
- 1.3.6. The City of Federal Way will be responsible for providing:
 - 1.3.6.1. Microsoft Windows-based server suitable to host the NVR software.
 - 1.3.6.2. Fiber network connection from Steel Lake Maintenance Shop to central server.

1.4. PLAN REVIEW AND PERMITS

The Contractor shall arrange for inspections and pay for all required licenses, permits, inspections, plan review fees, and any other fees.

1.5. DRAWINGS

- 1.5.1. It shall be understood that the electrical details and drawings provided with the specification package are diagrammatic. They are included to show the intent of the specifications and to aid the security contractor in bidding the job. The Contractor shall make allowance in the bid proposal to cover whatever work is

- required to comply with the intent of the plans and specifications.
- 1.5.2. The Contractor shall verify all dimensions at the site and be responsible for their accuracy.
 - 1.5.3. Prior to submitting the bid, the Contractor shall call to the attention of the Project Manager any materials or apparatus the Contractor believes to be inadequate and any necessary items of work omitted.

1.6. QUALITY ASSURANCE

- 1.6.1. Security systems shall be installed by, or under the direct supervision of, a qualified representative of the Contractor, per manufacturer's specifications.
- 1.6.2. Programming & testing shall be completed by an approved representative of the Contractor, per manufacturer's specifications.
- 1.6.3. Contractor Qualifications
 - 1.6.3.1. The Contractor shall be a "specialist", who is regularly engaged in the type of work specified herein and is completely familiar with security systems and the required methods of installation. Award will be made only to a bidder who can provide satisfactory evidence that their personnel have the technical ability, experience, tools, personnel, training and financial resources to successfully complete the work.
 - 1.6.3.2. The Contractor shall have an experience base of at least ten (10) years for the design and installation of systems similar to those specified in this RFP.
 - 1.6.3.3. The Contractor shall have their place of business and service office no further than one hundred (100) miles from Federal Way, WA.
 - 1.6.3.4. As part of the Contractor's submittal of qualifications in its bid, Contractor shall include written notice by the applicable manufacturer and service providers, that the contractor is a certified reseller and in good standing. This shall be on the manufacturer's company letterhead.
 - 1.6.3.5. The Contractor shall be licensed and bonded in the State of Washington. The licensing shall include but not be limited to a valid state Electrical Contractor, Low Voltage System Contractor, Alarm Operator, and local business license.
 - 1.6.3.6. The Contractor must be regularly engaged in this type of business and video guard service.
 - 1.6.3.7. The Contractor shall provide factory-trained personnel for the trim, termination, programming, final focusing and warranty of the system. As part of the submittal process, the Contractor shall present proof on the manufacturer's letterhead that includes the name of the personnel that will perform the work on this system. This document shall also show the effective dates of the personnel's training.
 - 1.6.3.8. Contractor shall have installed a minimum three (3) similar type systems with the listed equipment as well as the outlined Video Guard Monitoring services. This work shall have taken place within the listed service area. These installation references shall be included with bid package. Each of the (3) installations must be utilizing the following services and features:

- 1.6.3.8.1. Monitoring center is providing active patrols of cameras on a pre-defined schedule.
- 1.6.3.8.2. Monitoring center is receiving alerts based on camera analytics rules (alarms within the cameras but not motion based, must be object based). These alarms shall not use any intermediate device such as a dialer or other equipment for transmission to the monitoring center. Instead this shall be true direct integration from the cameras directly to the alarm monitoring software (IP based).
- 1.6.3.8.3. Monitoring center provides live audio instruction (voice down) over speakers on site during alarm events.
- 1.6.3.8.4. Monitoring center provides live video escort features. This shall include when personnel call the monitoring center and the monitoring center provides live video escort to their vehicle while viewing video.
- 1.6.3.8.5. The monitoring center shall provide a 'dedicated' 800 number, or City-approved equivalent phone capability, to the end user, where a unique PIN or password is required to verify identity of user. This shall not be accomplished via a central 800 number where the end user is required to provide account number and information, this must be a dedicated number for the end user only, specific to this site.

1.7. DELIVERY, STORAGE AND HANDLING

- 1.7.1. Delivery and receipt of products shall be at the site described in the Scope Section by the Contractor.

1.8. SUBMITTALS

- 1.8.1. All submittals shall be submitted at one time to the Project Manager for approval. Partial submittals will not be considered.
- 1.8.2. Submit complete documentation for the various systems equipment, devices, materials, etc. showing the model number, type, rating, size, style, manufacturer's names, and manufacturer's catalog data sheets for all items. Include data on features, rating, and performance.
- 1.8.3. Submittals shall include complete security system riser and wiring diagrams, plan drawings, etc. (Note: The contract drawings submitted electronically in AutoCAD 2020 (.dwg) and Adobe Acrobat (.pdf) format will be available from the Engineer if desired.). Include dimensioned plans, riser diagrams, and other details of components as appropriate.
- 1.8.4. If requested by the City, the Contractor will provide samples of equipment.
- 1.8.5. Record documents shall include data port identification label, IP camera serial number, IP address, IP camera MAC address, Network Port information.

1.9. RECORD DOCUMENTS

- 1.9.1. Submit "as-built" record drawings and operation and maintenance manuals at completion of the project in accordance with the specific submittal requirements

- listed elsewhere in these Specifications.
- 1.9.2. Provide as-built documentation consistent with the contract documents as required, in AutoCAD .dwg files with as-built notations for all sheets. (Project Manager will provide construction drawings AutoCAD 2020 (.dwg) files to contractor.)
 - 1.9.3. Record documents shall include data port identification label, IP camera serial number, IP address, IP camera MAC address, Network Port information.

2. PART 2 – PRODUCTS AND SERVICES

2.1. VIDEO GUARD SERVICE & MONITORING CENTER:

- 2.1.1. Video Guard service shall be provided by Prosegur CRM, or approved equal.
- 2.1.2. The Security Monitoring Agent shall have the ability to make live, one-way, real time announcements while observing selected cameras. These live voice/ video announcements are important to management as they prove to the public at large that the camera system is live and being routinely monitored. The Security Monitoring Agent shall have the ability to verify compatibility of audio system.
- 2.1.3. Video patrols or “round” times are defined by other sections in this RFP. During the viewing of each individual camera, the Security Monitoring Agent shall utilize each camera’s functionality fully (pan, tilt, zoom, etc., as equipped) in order to capture as much of the viewable area as possible. In so doing the monitoring agent shall look for and observe violations of the pre-determined property policies, utilize the voice technology as needed to curtail said activity, and notify the appropriate management team member, security or police department.
- 2.1.4. During each contracted patrol, the monitoring agents shall according to schedule bring cameras full screen and perform the following functions:
 - 2.1.4.1. Observe activity within camera view.
 - 2.1.4.2. Manipulate each camera to the extent of its ability.
 - 2.1.4.3. Use voice technology as needed or directed by management agent.
 - 2.1.4.4. Respond to system generated alerts.
 - 2.1.4.5. If suspicious or criminal activity is observed, chain of command as determined by management agent.
 - 2.1.4.6. If criminal activity is observed dispatch local police department to respond.
 - 2.1.4.7. Observe camera for loitering activity, make announcement as needed.
 - 2.1.4.8. Record all patrol observations and actions in daily patrol log database
 - 2.1.4.9. Equipment problems (e.g. network, camera system, cameras, audio, etc.) will be promptly reported to principal contacts for contracted property.
 - 2.1.4.10. A daily activity log shall be provided to the principal contacts for contracted property. The daily report will note any observed suspicious or criminal activity and will include appropriate photo evidence. The daily log will be delivered electronically via e-mail.
 - 2.1.4.11. Monitoring agent shall report internet communication findings and corrective action to principal contacts for contracted property.
 - 2.1.4.12. Camera footage shall be stored locally at City site.

- 2.1.4.13. Monitoring agreement shall perform reactive forensic on:
 - 2.1.4.13.1. Observed events/incidents.
 - 2.1.4.13.2. Non-observed events/incidents reported by Client.
 - 2.1.4.13.3. Monitoring Agent shall report and supply any video evidence of the reported event/incident to principal contacts for contracted property.
- 2.1.5. The monitoring center shall provide a 'dedicated' 800 number, or City-approved equivalent phone capability, to the end user, where a unique PIN or password is required to verify identity of user. This shall not be accomplished via a central 800 number where the end user is required to provide account number and information, this must be a dedicated number for the end user only, specific to this site.
- 2.1.6. The monitoring center software shall be integrated directly to the Avigilon camera system and cameras without the need for 3rd party dialers or equipment. This shall intelligently alert at the monitoring center when a camera rule is violated. The audio connection shall also stream over the camera seamlessly to the monitoring center.
- 2.1.7. The monitoring center shall have a minimum of 20 live agents at any given time, 24/7/365, solely dedicated to the task of video monitoring services.
- 2.1.8. The video monitoring center shall have the ability to perform 'video escort' features. This shall be for a staff member needing a virtual escort from a building to their vehicle.

2.2. PRODUCTS (DEVICE TYPES, LOCATIONS, AND QUANTITIES ARE NOTED ON DESIGN DRAWINGS.)

- 2.2.1. Manufacturer or Software and Cameras shall be AVIGILON or approved equal.
 - 2.2.1.1. 11 each of Avigilon, ACC7-ENT with Single Enterprise Software License.
 - 2.2.1.2. 10 each of Avigilon 6.0-H5A-BO1-IR (6MP Bullet Camera with IR & Analytics).
 - 2.2.1.3. 1 each of Avigilon 24C-H4A-3MH-270 (24MP Multi-sensor, 270*, with Analytics).
 - 2.2.1.4. 1 each of Avigilon H4AMH-AD-IRIL1 (IR illuminator for Multi-sensor).
- 2.2.2. Switches shall be Ubiquiti or approved equal.
 - 2.2.2.1. Shall be minimum eight (8) port, POE, Gigabit.
 - 2.2.2.2. Shall be mounted in a NEMA 4, non-environmental enclosure.
 - 2.2.2.3. Shall be CE, FCC, and IC certified.
 - 2.2.2.4. Shall be operable in temperatures between -25 to 55°C (-13 to 131°F).
 - 2.2.2.5. Shall provide port monitoring, system connection and management services, VLAN configuration, and configurable alerts.
- 2.2.3. Speakers & Amplifier shall be Axis or approved equal.
 - 2.2.3.1. 7 each of Axis C1310-E (IP Speaker, Outdoor Rated).
 - 2.2.3.2. Speaker and amplifier shall be of matching manufacturer.

- 2.2.3.3. Speaker shall be IP addressable.
- 2.2.3.4. Speaker shall be 7-watt model capable of voice messaging applications.
- 2.2.3.5. Speakers shall be capable of producing an intelligible message for all points of the structure.
- 2.2.4. NEMA Enclosures shall be L-COM or approved equal.
 - 2.2.4.1. 5 each of L-COM, NB141207-100 (Industrial NEMA Rated Enclosure).

2.3. WIRE, CABLE, AND RACEWAYS

- 2.3.1. All wire and cable shall be installed in Electric Metallic Tubing (EMT).
- 2.3.2. All wire and cable installed in below grade raceways shall be suitable for wet locations.
- 2.3.3. Surveillance system Ethernet cable shall be 4 pairs, twisted, #24 AWG solid copper, nominal 100-ohm, Category 6 unshielded twisted pair cable, 300 volt rated.
- 2.3.4. Cables installed in exterior or below grade conduits shall not be required to be UL listed and shall have a water blocking gel, be suitable for wet locations and have a black jacket. Cables shall be allowed to be Category 5 unshielded twisted pair cable, 300 volt rated.
- 2.3.5. Existing camera cable will not be re-used. All camera cable will be newly installed. Existing conduit raceways may be re-used.

2.4. CABLE TERMINATION HARDWARE

- 2.4.1. Ethernet cable connectors shall be RJ45 plugs, high impact thermoplastic, specifically designed for direct connection to Category 6 cable. Connectors shall meet ANSI/TIA/EIA-568-B.2 Standard for Enhanced Category 6 connecting hardware and be configured in accordance with designation T568B eight position jack pin/pair assignment.
- 2.4.2. Power wiring splices may be made with wire nuts. Ethernet splices will not be allowed

2.5. NAMEPLATES AND LABELS

- 2.5.1. Provide and place labels for the following:
 - 2.5.1.1. Video Ethernet station cables, at both ends, with the cable ID code.
 - 2.5.1.2. Cable termination hardware, with the cable ID Codes.

3. PART 3 – CLOSE OUT

3.1. TRAINING/INSTRUCTION AND ASSISTANCE

- 3.1.1. After the installation is complete and operating, and prior to acceptance of the work, conduct a minimum of a four (4) hours of onsite training/instruction. Onsite training/instruction shall take place on mutually agreed upon dates, coordinated with the Project Manager and Contractor.
- 3.1.2. The person(s) who conduct these instructions and demonstrations shall be a approved representative(s) of the manufacturer with substantial training and operating experience on this equipment and project, and shall be versed in the

operating theory as well as practical operation and maintenance work. Instructor(s) shall have the necessary educational and interpersonal skills, as well as proven ability to effectively perform the training. Their qualifications shall be submitted to the City before conducting the instruction period.

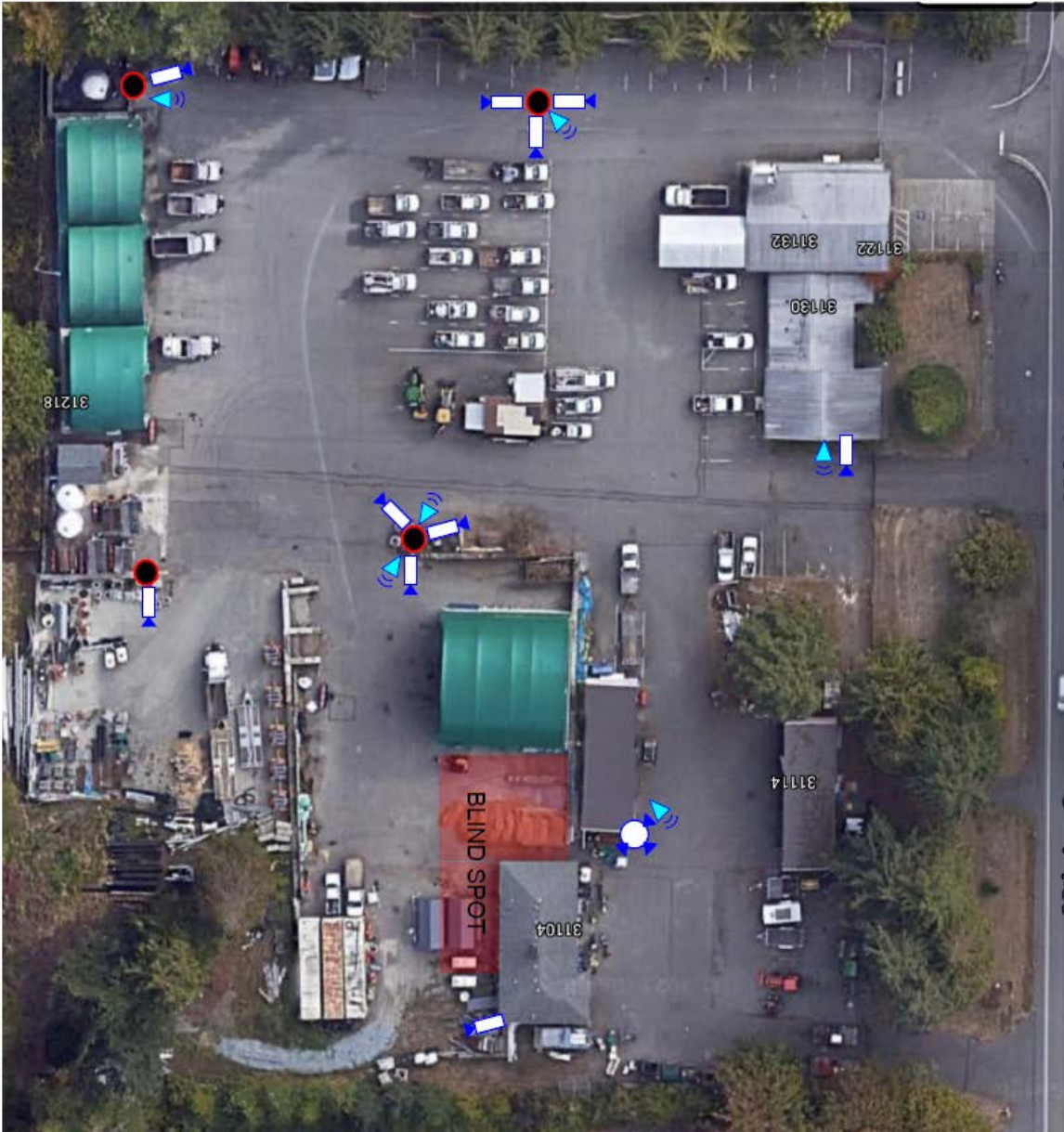
- 3.1.3. Training period shall include preliminary discussion and presentation of information using the actual maintenance manuals required for this project. Contractor shall notify City at least 48 hours in advance of readiness.
- 3.1.4. All training materials shall be furnished by the contractor or equipment manufacturer.

3.2. FINAL ACCEPTANCE

- 3.2.1. After work is completed and prior to requesting the Acceptance test, the Contractor shall conduct a final inspection, and pre-test all equipment and system features. Contractor shall correct any deficiencies discovered as the result of the inspection and pre-test prior to the Acceptance test.
- 3.2.2. Acceptance test shall be scheduled with the City with a minimum of (5) days' notice. Contractor shall demonstrate all equipment and system features to the City. Contractor shall fully cooperate with the City and provide assistance with the inspection and test.
- 3.2.3. Any portions of the Work found to be deficient or not in compliance with the Contract Documents will be rejected. City's Representative will prepare a list of any such deficiencies observed during the Acceptance test. A copy of such list will be provided to Contractor. Contractor shall promptly correct all deficiencies.

3.3. WARRANTY

- 3.3.1. Warranty all components, parts, and assemblies against defects in materials and workmanship for a minimum of one (1) year from completion date. Warranty service shall be provided by a trained specialist of the equipment manufacturer.
- 3.3.2. Warranty response time shall not exceed one (1) business day.
- 3.3.3. System maintenance and repair of system or workmanship defects during the warranty period shall be provided free of charge (parts and labor).
- 3.3.4. Extended service/maintenance agreements shall be offered for up to five (5) years after the warranty expires.



Symbol Legend

Description	Quantity
180/270° Camera	1
Light Pole	4
Outdoor Bullet Camera with IR	10
Speaker	6

APPENDIX C
Costs

SCHEDULE A: STEEL LAKE SHOP VIDEO SECURITY ENHANCEMENTS				
<i>All unit prices shall NOT include applicable sales tax.</i>				
<i>Sales tax should be applied to the subtotal for this schedule.</i>				
Item No.	Spec. Div.	Proposal Item Description	Unit Price	Amount
1	Parks			
2	Parks			
3	Parks			
SUBTOTAL – SCHEDULE A				\$
SALES TAX (10.1%)				\$
TOTAL – SCHEDULE A				\$
<i>(including Washington State sales tax, all other government taxes, assessments and charges)</i>				

SCHEDULE B: STEEL LAKE SHOP VIDEO SECURITY ENHANCEMENTS – RECURRING CHARGES				
<i>All unit prices shall NOT include applicable sales tax.</i>				
<i>Sales tax should be applied to the subtotal for this schedule.</i>				
Item No.	Spec. Div.	Proposal Item Description	Unit Price	Amount
1	Parks			
2	Parks			
3	Parks			
SUBTOTAL – SCHEDULE B				\$
SALES TAX (10.1%)				\$
TOTAL – SCHEDULE B				\$
<i>(including Washington State sales tax, all other government taxes, assessments and charges)</i>				