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Grass Valley Police Department

Memorial Park Cameras

350 Race St, Grass Valley, CA 95945

K S Telecom, Inc. (KST) is offering a quote to provide and install (2) multisensor cameras, (2) dome cameras, (2) Appliances, (8) Wireless bridges, and Licensing at Memorial Park located at 350 Race St, Grass Valley CA. All **KST** Provided and installed cabling will be tested to standards with a Fluke Cable Analyzer.

Restroom building 1:

KST will provide and install (1) Avigilon 20MP 360° Multisensor camera on the front of the restroom. (2) wireless bridges will be installed on this restroom. (1) wireless bridge will be pointed to the Pool house for a connection to the outside world. (1) wireless bridge will be aimed towards the other restrooms for network connectivity. A total of (3) Cat6 cables will be pulled and terminated to each of the (3) devices on this building. (1) **KST** provided hardened network switch will be installed at a location in the custodial closet in this restroom building.

Restroom building 2:

KST will provide and install (1) 20MP 360° Multisensor camera on the front of the restroom. (1) **KST** provided wireless bridge will be installed and aimed towards the transmitter on restroom 1 for network connectivity. **KST** will provide and install a total of (2) cate 6 cables to each of the devices on this building to the custodial closet where the POE injectors can be installed.

Restroom Building 3:

KST will provide and install (2) 2MP Analytic dome cameras on each side of the building to capture the individuals entering & exiting. (1) **KST** provided wireless bridge will be installed and aimed towards the bridge on restroom 1 for network connectivity. **KST** will

provide and install (outside rated enclosure to act as an IDF. KST will provide a total of (3) Cat 6 cables, (1) to each of the KST provided and installed devices. All cabling on this building will be terminated at this IDF. Power to the IDF will be completed by **KST**. **KST** has included 50ft of 3/4" conduit if no pathway can be used/installed in an accessible ceiling space on the interior of the building. **KST** will provide and install (1) enclosure on this building to house a hardened network switch and POE injectors. Electrical to the enclosure will be completed by **KST**. **KST** assumes that there is an electrical panel within 30ft of the enclosure location. If the electrical panel is further away, additional labor and materials would be completed on a T&M ticket or a change order to this project.

Network:

All network settings (IP Address, subnet mask, gateway, DNS server) will be provided by GVPD. **KST** will provide and install (6-7) point-to-point wireless bridges for network connections to each of the restrooms. (1) wireless bridge will be installed at each restroom building. (1) wireless bridge will be installed on the restroom closest to the pool building and aimed at an additional bridge located on the pool house for a network connection to the outside world.

Licensing:

KST will provide a total of (8) Avigilon Unity Enterprise Camera Channel licenses for this project. **KST** will provide and install (8) Unity8 Smart Assurance License for the camera at this location. After the camera installation is completed, **KST** will connect the camera to The **KST** provided appliance.

Appliance:

KST will provide and install (1) 32TB Avigilon standard NVR in a location inside of the Memorial Park pool house. Cameras installed onsite and (4) existing cameras will record directly to this NVR. Storage calculations have been estimated to provide approximately 31 days of video retention with a daily recording cycle of 12 hours with medium detail and high motion expectations. Cameras will be set to record on motion to achieve this retention period. The actual retention period may differ depending on activity in the area. The storage calculation has been estimated by assuming the (4) existing cameras are 4MP (or less) Avigilon bullets using the above-mentioned parameters for recording on motion. If the existing cameras have a higher MP rating, changes will need to be made to the recording parameters or a larger NVR will need to be provided to achieve a 30-day retention period.

Existing Park cameras networking:

KST will provide and install (2) wireless bridges, (1) at each of the existing camera locations. These wireless bridges will be aimed towards a new Wireless bridge to be installed on the pool house. This installation has been requested without a detailed site walk to determine clear line of sight or obstructions in the signal from the camera locations to this building. If clear line of site is not possible, additional costs will occur and work can be completed as a T&M change order to this project under the contingency. **KST** will

provide and install (4) Unity8 camera channel licenses and (4) Unity8 Smart Assurance licenses for these (4) cameras. These (4) existing devices will be added to the **KST** provided NVR in the pool house for recording. The request for this portion of the project is due to the connectivity issues with the existing modems at these camera locations.

The price for this project as described above is: \$63,500.00

*Work is quoted to take place during normal business hours (M-F 7am-4pm)

**This quote expires 30-days from the date listed above

***The cost to upgrade to a 48TB server if needed is roughly an additional \$8,300.00

Materials: \$30,814.53

License: \$2,179.20

Labor: \$27,810.00

Tax: \$2,696.27

10% Contingency: \$6,350.00

The total price for this project with contingency: \$69,850.00

GSA Contract: 47QRAA23D008Z

This Project Excludes:

1. Air-conditioned enclosures.
2. Vape detectors. (cabling, licensing, set up, installation, accessories, etc.)
3. Electrical load calculations.
4. New electrical circuits. (**KST** will extend existing circuits)
5. Face recognition licensing.
6. Lice Plate Reader licensing.
7. Custom analytic events or rules within Avigilon client software
8. Workstations
9. ACM integrations
10. Email alerts.
11. Any active components (other than cameras and components stated in the above scope of work)
12. Switch configurations.
13. Configurations on active components not provided by **KST**.
14. Fiber optic cabling.
15. Asbestos, lead paint, or other hazardous material related work.
16. Painting or patching of walls, conduits, boxes, etc.
17. All underground conduits, boring, repairs, etc.
18. Anything other than what is described above as this is how we understand the project based off the information provided.

Warranty Information

K S TELECOM, Inc. warrants all active components to be free of defects for a **period of 90 days** from the date of substantial completion. **KST** warrants all cabling and craftsmanship to be free from defects for a **period of 1-year** from the date of substantial completion. **KST** shall fix or replace, at its sole discretion, all defective materials and/or craftsmanship, at no charge to the customer, excluding damage because of negligence, abuse, misuse, and/or acts of God. Normal and customary service charges shall apply for the diagnosis of repair or non-warranted defects. Any changes to LAN/WAN configuration or programming after acceptance are the responsibility of the Customer.

Avigilon manufacturers *material only* warranty covers H5A & H6A cameras for a period of 5 years. The warranty period begins on the date of material shipment.

KST's DIR Registration # 1000000120

Please call or email if you have any questions.

Sincerely,



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