



City of Bunnell, Florida

Agenda Item No. H.3.

Document Date: 6/14/2022 Amount:
Department: Police Account #:
Subject: Discussion and Possible Action on New Surveillance System
Agenda Section: New Business:
Goal/Priority: Quality of Life, Technology, Infrastructure

ATTACHMENTS:

| Description | Type |
|-----------------------|--------------|
| Presentation to Board | Presentation |

Summary/Highlights:

Staff has spoken with a number of vendors, and compiled pricing with various options on replacing and expanding the existing surveillance system.

Background:

Following the tragic events of January and May, our existing system was not able to pull any useable footage surrounding either of these events. Chief Brannon as part of his report to the Board requested the system be upgraded. Chief provided staff with a list of features, and locations to be covered by the new system.

Staff started talking with other jurisdictions, and contacting vendors to try and get a handle on the budget necessary for such a project with the requested features. The amounts in question, per policy would require a formal RFP process, or some kind of a contract we can piggy back on.

All of the vendors were asked to provide quotes for the requested features and locations, as follows:

Total Project Cost

Phase 1 – Upgrade the 7 existing locations.

Phase 2 – Provide poles, electrical work, connectivity, etc. for the 6 new locations requested by PD.

5 year leasing option.

As with a formal RFP process, attempts were made to provide exactly the same information across all of the vendors. 3 vendors provided estimates for the project. Unlike a formal RFP process, all of them have different approaches to complete the project, and the pricing varies

widely.

Summary by vendor:

J&J Security

Total Project Cost: \$352,820

Phase 1: \$154,087

Phase 2: \$198,733

Annual Maintenance: \$23,875

5 Year Lease: 25% down, 9.8% subject to change with Prime Rate.

Motorola / Vetted

Total Project Cost: \$250,095.35

Phase 1: \$89,365.63

Phase 2: \$160,729.71

5 Year Lease: \$55,334 annual 3.46% Includes maintenance.

Web Watchdogs *

Total Project: \$78,525.00

Phase 1: \$44,475.00

Phase 2: \$34,050.00

5 Year Lease: No information Provided

* For new locations, WWD does not include poles, electrical work, or connectivity. All to be provided by the City.

Connectivity:

In order to provide a common server as requested, or access to the video by way of the internet, some form of connectivity to each of the sites is required. 3 types of connectivity were discussed with the vendors.

1. Wireless – This is how the existing system worked. A series of radios relayed from one location to the other back to a head end location that provided access to the internet. Proposed the Versie Lee Mitchell Community Center head end this project. However there is no location within the building to be able to secure the equipment. This option would likely need to install additional poles to reach all of the sites.
2. Cellular – 5G is available in Bunnell with the proper device. With the City's current cellular provider this would be \$38 per month per location.
3. Direct Connection – Within this connectivity, a couple options were explored.
 1. Spectrum – Can provide internet access to each of the locations for \$85 per month per location with a small one time installation fee.
 2. Fiber Optic – The City of Palm Coast through a contract with the School Board has fiber optic cabling in the area. They have indicated they could provide connections to each of the locations, and then to either one of their co location sites (for us to house a server), or any location they have or can get a connection. Staff has requested pricing for connecting all of these locations to the PD Office Trailer. A future project would have to reroute the connection to the new PD once built. Then provide internet access at this point.

Staff Recommendation:

Staff recommends selecting Motorola / Vetted as they are providing all of the equipment, poles, etc. and can provide the License Plate readers. Recommend the Board provide direction on financing.

City Attorney Review:

Finance Department Review/Recommendation:

Commission's Option. Any approved plan will need to be included in the upcoming budget or use of reserves.

City Manager Review/Recommendation:

The image features a dark blue background with a complex, glowing circuit board pattern. The circuit lines are light blue and white, with various nodes and connections. In the center, a black rounded rectangle contains the text "SURVEILLANCE SYSTEM" in white, bold, uppercase letters. The overall aesthetic is high-tech and digital.

SURVEILLANCE SYSTEM

OLD SYSTEM

- 2 fixed cameras at each location.
- Radio system brought video from each location to the Coquina Building which at the time housed the PD
- When PD was moved out, cameras were made available via internet
- System is not Windows 10 compatible – Officers no longer able to view cameras
- System upgrades given a low budgetary priority
- After multiple attempts at upgrades, the system was no longer maintained

UPGRADE - REQUESTED FEATURES

- New cameras providing as close to 360 degree field of view as possible
- Pan Tilt Zoom feature so either an officer or Real Time Crime Center (RTCC) the ability to isolate and zoom in on a specific video image “live” or in “real time” to aid in identifying acts, persons, vehicles, etc.
- Ability to capture footage in real time to assist in locating a suspect, vehicle, etc. when an incident occurs.
- Storage to a remote server and to the camera
- Mounting boxes of such strength as to resist most projectiles hurled at the camera.
- Enough cameras to provide overlapping coverage so blind spots are minimized if not eliminated.

VENDORS

- J & J Security – Provided a proposal. Has contracts with other jurisdictions.
- Vetted Security Solutions – Provided a proposal. Has GSA contract.
- Web Watch Dogs – Local vendor (Palm Coast). Installed the original system. Provided quote just to upgrade or provide new location equipment. The City would have to put up the new poles, provide the electrical work, and internet access at each location.
- Security 101 – Came down and toured the project. Indicated we needed to hire an engineer to provide more detail to the project and they would quote. No proposal provided
- Miller Electric – Indicated if we get them approved through the procurement process, they will assign designers and provide pricing. No proposal provided.

COMPARRISON

| Features Requested | J and J Security | Motorola / Vetted | Web Watch Dogs |
|--|--|---------------------|--|
| As close to 360° field of view as possible | 3 Bullet Cameras | Multi Sensor Camera | 4 Bullet Cameras |
| Pan Tilt Zoom (PTZ) Feature | Not mentioned in proposal, however vendor indicated it was possible. | In Software | Not mentioned in proposal. Vendor indicated PTZ was problematic. |
| Ability to capture footage in real time to assist in locating a suspect, vehicle, etc. when an incident occurs | Yes | Yes | Yes |
| Storage to a remote server and to the camera | Yes | Server not included | Yes |
| Mounting boxes of such strength as to resist most projectiles hurled at the camera | Yes | Yes | Yes |
| Enough cameras to provide overlapping coverage so blind spots are minimized if not eliminated | Yes | Yes | Yes |

PURCHASING OPTIONS

| Description | J and J Security | Motorola / Vetted | Web Watch Dogs |
|---|---|-------------------|-------------------------------|
| Total Project Cost: Replacing existing equipment at existing locations, adding 6 additional locations. New locations would require poles, and electrical work as well as new equipment. | \$352,820 | \$250,094.34 | \$78,525 |
| Phase 1: Replace Existing Equipment | \$154,087 | \$89,363.63 | \$44,475 |
| Phase 2: 6 New Locations including new poles and electrical work. | \$198,733 | \$160,792.71 | \$34,050 |
| Annual Maintenance | \$23,875 | 5 Year Included | 1 st Year included |
| 5 Year Lease | 25% down and 9.8% APR (subject to change with Prime rate) | \$55,334/yr | Not offered. |

VENDOR DIFFERENCES

J and J Security:

- Connectivity – Providing a wireless mesh radio system to head end the project to Versie Lee Mitchel Community Center.
- Phase 1 includes a server with sufficient storage for all 13 total locations.

Motorola / Vetted:

- Using cellular modems for connectivity and no server.

Web Watch Dogs:

- Did not quote providing poles or electrical work at any of the new locations.

CONNECTIVITY

Each of these camera locations will need some way to access the internet in order to stream the video out for the PD or the Sheriff's Office Real Times Crime Center (RTCC) to view the video feeds. In speaking with vendors 3 methods were discussed.

- Wireless Bridges
- Cellular Modem
- Direct Connection

CONNECTIVITY – WIRELESS BRIDGES

- The old system operated this way. Wireless network bridges were linked together and brings the video back to a central point referred to as a head end, that shares access to the internet.
- Line of sight radios may require additional poles.
- The City has 2 properties in the area:
 - Coquina Building – the old system was setup this way.
 - Currently (or soon to be) under renovation.
 - Versie Lee Mitchel Community Center
 - Recently moved internet and Wi-Fi from Coquina building to this location.
 - No room to secure head end equipment.
 - Current internet speed likely insufficient would need to upgrade.

CONNECTIVITY – CELLULAR MODEMS

- 5G is in Bunnell with the proper device.
 - Depending on signal strength available bandwidth.

CONNECTIVITY – DIRECT CONNECTION

- Spectrum has provided pricing to provide internet at all the locations.
- City of Palm Coast through a contract with the School Board has fiber optic cabling in the area and have indicated they can provide connectivity to all the locations. Palm Coast is cable only. It would be up to the City to “light” the fiber.

LICENSE PLATE READERS

In order to be compatible with the Sheriff's Office, the license plate readers (LPR) we deploy need to be Vigilant. In this area the distributor is Vetted Security. Vigilant was recently purchased by Motorola.

Purchase 10 cameras out right: \$25,000. Would need to schedule annual software access charges of \$30,000 per year.

Added to lease for other cameras annual payment of approximately \$87,415.