CITY OF MARYSVILLE AGENDA BILL

EXECUTIVE SUMMARY FOR ACTION

CITY COUNCIL MEETING DATE: 6/27/16

AGENDA ITEM:	
Jail Monitoring System Proposal	
PREPARED BY:	DIRECTOR APPROVAL:
Gloria Hirashima, Chief Administrative Officer	
DEPARTMENT:	
Executive	
ATTACHMENTS:	
1. Staff Memo	
2. Proposal from Justice Systems Corporation	
BUDGET CODE:	AMOUNT:
00105830.548000	\$79,098
SUMMARY:	

The Marysville Police Department Jail operation has assessed the jail operations over the past year and is recommending improvements/relocation of the jail monitoring system. The improvement/relocation will involve the purchase of new equipment and software to relocate the jail board. The proposal from Justice Systems for the staff recommended improvements (Base Move, Add Alt 1, and Add Alt 3) was \$72,500 plus sales tax which totals \$79,098. The improvements/location must be compatible with the existing equipment and therefore this purchase becomes a sole source.

RECOMMENDED ACTION:

Approve the proposal from Justice Systems for a total of \$79,098 including sales tax.



MEMORANDUM

To: City Council

From: Gloria Hirashima, Chief Administrative Officer

Date: June 13, 2016

RE: Proposed Budget Amendment relating to Custody Operation

Following managerial review of the jail operations, including an internal assessment and external audit, Chief Smith has proposed reorganization of the custody operation, as follows:

Current Operation	Proposed Operation	Cost Impact
13 Custody Officers (11 at	10 Custody Officers (9 at Jail,	Approximately \$30,000/year
Jail, 2 at Municipal Court)	1 at Municipal Court)	
2 Custody Sergeants	4 Custody Corporals	
Management oversight by	1 Police Sergeant	
Lieutenant Buell, and	1 Tonce Bergeam	
Commander Wade	Management oversight by	
	Lieutenant Buell, and	
	Commander Wade	

The reorganization will result in greater oversight at the jail. Through the reorganization, there will continue to be 13 custody staff involved in daily operations, 4 of them providing 1st line supervision. A Police Sergeant will provide additional operational oversight. The movement of 1 Custody Officer from the Municipal Court will provide staffing where there is most critical need. Executive, Police and Municipal Court staff worked cooperatively to determine minimal staffing needs at the Courthouse. It was determined that 1 Custody Officer, working in close coordination with the jail staff can provide security for courthouse operations. Therefore, the cost impact of addressing jail operations is minimal, while addressing the critical staffing and supervision needs at the jail.

The remote monitoring and opening system for our jail doors is an important aspect of safety and security at the Marysville Jail. The current system is outdated and has experienced recent failures. While currently operational, staff is concerned that it may not be reliable going forward. In addition, the internal assessment of the custody operation recommended relocation of the monitoring system into the custody area. This will allow custody staff to monitor and

operate the jail door system instead of the Police Records staff who are not housed within the jail facility. The cost of the updated system and relocation is \$80,000 (including sales tax). The proposal from Justice Systems Corporation is attached. Staff is recommending purchase of Base Move plus Add Alt 1, Update to PLC and Windows 7 plus Add Alt 3, Backup Control.

We have considered whether this purchase and equipment will be relocatable or usable at a new facility. Unfortunately, most of it cannot be utilized as much of the costs involved are associated with the relocation from reception to the custody area. Potentially, Add Alt 3 (\$13,770) may be utilized in a new facility. This is unfortunate, however as it is likely to be at least 3 years until a new facility can be occupied, it is important that we proceed to ensure a reliable security system at the jail.

In order to implement this move, the City Council will need to approve creation of the Custody Corporal position and establishment of a pay code. An additional Police Sergeant position will be created to oversee custody operations, replacing 1 Custody Officer position. A budget amendment is anticipated to increase the 2016 Police budget by \$95,000 for these changes (\$15,000 for half year of Custody Corporal and Sergeant assignments, and \$80,000 to accept proposal by Justice Systems Corporation to relocate the Controls position and upgrade equipment/software.

PROPOSAL



RELOCATE CONTROLS POSITION CITY OF MARYSVILLE PUBLIC SAFETY BUILDING

PURPOSE AND BACKGROUND

This proposes to relocate the security control center from the Reception position to Booking in a very basic fashion (i.e., physically relocate it), but also provides a number of recommended alternates to:

- Replace the dated programmable logic controller (PLC) and update the nine-year-old software
- Replace the (perhaps) twenty-year-old intercom system, and
- Re-introduce a control station at the Reception position now as a backup

Booking currently has only a video review station, but no control or switched video capability. Those functions are currently at Reception.

The existing touchscreen software is several versions out of support and runs on Windows XP, for which Microsoft has ended its support. The PLC is an older version of Modicon Momentum whose software is now out of date as well. These components and their software should be brought current to ensure continued support of the system.

In addition, the existing intercom system is "hard-wired" technology consisting of relays and discrete logic boards for sound threshold monitoring, with an analog intercom amplifier. These Dukane components were manufactured twenty years ago, and are increasingly difficult to source replacements. This equipment should be replaced as well.

BASE SCOPE

LIMITATIONS TO BASE SCOPE

The base scope physically moves the existing control station to Booking from Reception, but does not address obsolescence or bring the system current. Justice Systems recommends these improvements, which are outlined in the alternates that follow.

ROUGH-IN AND CABLING SCOPE

The existing intercom and PLC reside in a second-level closet behind the original control center ("SE Closet"). Install the following from the SE Closet to Booking, in order to support active control operations at Booking:

1-inch Conduit with Class 2 Cable:

- Cat. 6 data cable for touchscreen control station
- Cat. 6 data cable for intercom master or spare
- UTP 22 AWG for duress activation

3/4-inch Conduit with Audio/Intercom Cable:

- UTP 22 AWG for speaker
- UTP 22 AWG for speaker
- STP 22 AWG for microphone

RELOCATION SCOPE

At the Booking Counter:

- Install a pole. Move the second video monitor from Reception and stack two monitors on the pole. Provide a CPU holder for the video client computer (existing).
- Move the touchscreen to the Booking counter. Provide a CPU holder for the touchscreen client (existing).
- Add a kill switch under the Booking Counter that disables control of the touchscreen. The means to do this will be to shut down the PLC.

ADDITIVE ALTERNATE 1 – UPDATE TO PLC AND WINDOWS 7

As an alternate, install a new, City-furnished Windows 7 workstation at the Booking Counter, a new touchscreen monitor, and replace the touchscreen software with current, supported software by InduSoft (Web Studio v7.1). Replace the PLC and its software to be compatible with the new HMI software. Remove the Modicon Momentum PLC and replace with Omron NJ model and associated input/output modules.

Alternate 1 will bring the Public Safety Building's security controls current and permit their online and remote support by software publishers, as well as ensure replacement hardware is readily available, in the event of failure. But it would leave the facility with an outdated intercom system.

The system will reuse the existing network switch.

ADDITIVE ALTERNATE 2 – MODERNIZE INTERCOM SYSTEM

As an alternate, replace the existing intercom system with a new digital system.

Reuse the intercom station wires, but replace each of the existing intercom stations with new, detention-grade intercoms of the same form factor (they will mount in place of the existing stations).

Provide a new Voice-over Internet Protocol (VoIP) master station at the Booking Counter. Retain the integration between the touchscreen and the intercom as its call handling and intercom selection interface.

Remove the analog intercom amplifier and sound threshold cards in the SE Closet, and replace them with Quick Connect Boards for the digital system. Mount shelves to support the new digital system exchange. Cable the exchange to the Quick Connect Boards.

Justice Systems proposes the Harding DXL intercom system, which has the largest installed base and is nearly a de facto standard in detention facilities.

The system will again reuse the existing network switch.

ADDITIVE ALTERNATE 3 – BACKUP CONTROL

As an alternate, install a second, County-furnished, Windows 7 workstation at Reception, along with InduSoft license, new touchscreen monitor, and a second intercom master. Program the ability to grant and/or remove control from the Reception position at the Booking Counter. Besides that, Reception Control would be identical to Booking and function as a backup.

COMPENSATION

COST PROPOSAL

INCLUSIONS

- Product data submittals
- Shop drawings (excluding floor plan shop drawings, which will remain relatively current)
- Maintenance manuals
- Record drawings
- One-year warranty.

EXCLUSIONS

- PC computers will be City furnished
- Enhancements to touchscreen software. Justice Systems will replicate the existing software and provide software with the same look and feel. Re-design or incorporation of new functions will require additional services.
- Spare parts
- Training and operations manuals. Functions will remain as they are.
- Performance and payment bond
- Sales tax.

In conjunction with the video system replacement already performed, at the conclusion of the base proposal with Alternates 1 and 2, the City of Marysville will have a fully replaced detention electronics system with all components and parts of the system current and supported by manufacturers. The components will have a 15-year useful life, excluding only computers and operating systems. Short of periodically updating those (e.g., three year cycles), Justice Systems expects fifteen years before any major improvements are needed again.

This quotation expires November 31, 2015.

Sincerely,

Paul Allyn, P.E. President, Justice Systems Corporation

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