

**CITY OF WASILLA
ORDINANCE SERIAL NO. 06-45**

AN ORDINANCE OF THE WASILLA CITY COUNCIL AMENDING THE FY-07 POLICE DEPARTMENT BUDGET BY ACCEPTING AND APPROPRIATING FUNDS FROM THE U.S. DEPARTMENT OF JUSTICE COMMUNITY ORIENTED POLICING SERVICES IN THE AMOUNT OF \$148,084 TO THE COPS LAW ENFORCEMENT TECHNOLOGY GRANT TO BE USED FOR THE EXTENSION OF THE COMMUNICATIONS TOWER AT WASILLA POLICE DEPARTMENT AND UPGRADING DISPATCH RADIO EQUIPMENT.

Section 1. Classification. This is a non-code ordinance.

Section 2. Purpose. To amend the FY-07 Police Department budget by accepting and appropriating funds from the U.S. Department of Justice Community Oriented Policing Services to the COPS Law Enforcement Technology Grant to be used for the Extension of the Communications Tower at the Wasilla Police Department and upgrading Dispatch radio equipment.

Section 3. Appropriation.

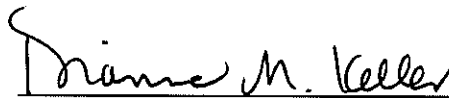
Expenditure Account	110-4210-420.45-15	\$148,084.00
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Section 4. Source of Funds.

Revenue Account	110-4200-334.31-28	\$148,084.00
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Section 5. Effective date. This ordinance shall take effect upon adoption of the Wasilla City Council.

ADOPTED by the Wasilla City Council on November 27, 2006.



DIANNE M. KELLER, Mayor

ATTEST:



KRISTIE SMITHERS, MMC
City Clerk

[SEAL]



**CITY OF WASILLA
LEGISLATION STAFF REPORT**

RE: ORDINANCE 06-45 TO AMEND THE FY-07 POLICE DEPARTMENT BUDGET BY ACCEPTING AND APPROPRIATING FUNDS FROM THE U.S. DEPARTMENT OF JUSTICE COMMUNITY ORIENTED POLICING SERVICES IN THE AMOUNT OF \$148,084 FOR THE EXTENSION OF THE COMMUNICATIONS TOWER AT THE WASILLA POLICE DEPARTMENT AND UPGRADING DISPATCH RADIO EQUIPMENT.

Agenda of: November 6, 2006
Originator: Chief John Glass

Date: October 17, 2006

Route to:	Department	Signature/Date
X	Police Chief Youth Court, Dispatch, Code Compliance	<i>John Glass</i>
X	Finance, Risk Management & MIS Director Purchasing	<i>[Signature]</i>
X	Deputy Administrator Planning, Economic Development, Human Resources	<i>[Signature] 10/30/06</i>
X	City Clerk	<i>[Signature]</i>

REVIEWED BY MAYOR DIANNE M. KELLER:

Dianne M. Keller

FISCAL IMPACT: yes \$148,084 or no Funds Available yes no

Account name/number: Revenue Account 110-4200-334.31-28 \$148,084

Expenditure Account 110-4210-420.45-15 \$148,084

Attachments:

SUMMARY STATEMENT: The U.S. Department of Justice Community Oriented Policing Services has granted funds for the COPS Law Enforcement Technology Grant to be used for the extension of the communications tower at the Wasilla Police Department and upgrading Dispatch radio equipment. See the attached Project Narrative for more details on the grant.

PROJECT NARRATIVE

A. Assessment of Existing Problems

The existing problems are:

1. Our Public Safety radio coverage has some weaknesses and needs to be improved. We will extend our communications tower by fifty ft. to obtain better coverage and this will also allow better separation between the transmitter antennas and receiver antennas. This will also allow us to move our primary antenna to a more secure location.
2. We have no back-up channel repeater in case our primary channel goes off-line. We propose to purchase a Quantar Repeater and housing unit and place them at an older unused tower location that has been refurbished. This repeater would be programmed with our already purchased back-up frequency. In down times of maintenance and outage, this would give us the ability to use our own frequency as a back-up instead of having to transfer over to another agency's frequency, which is already too crowded with radio traffic.
3. The Network/Server room that supports Dispatch is critical to our public safety operations. Three of the most heavily used radio consoles in that room generates a large amount of heat and they are not as robust as we would like. In a Network/Server room environment, heat causes the sensitive servers, computers and electrical components to degrade and break down. There are Base Stations which perform the same job as the radio consoles, but are much more robust and do not generate as much heat as the consoles. We propose to purchase and install these base stations in place of the three most heavily use consoles to mitigate the heat problems and to give us a more robust system.
4. The State of Alaska has just completed a pedestrian tunnel that will allow a safe travel corridor by keeping people from crossing a major five lane highway and our only rail road line. If the tunnel were destroyed by a violent act, it would cut off transportation access to the interior of Alaska. We propose to use these technology grant funds to purchase and install four ruggedized cameras with a video storage capability. This would allow us to monitor the safety of the tunnel and any human activity that might compromise public safety. It would also allow us to capture and review activity to determine the events that may lead up to a criminal event.

5. We have recently instituted a CAD Mapping feature to our Dispatch Center. We need to give our dispatchers the capability to view a live map of our jurisdiction for a more effective response by both officers and resources. We would use these technology funds to purchase 18 large LCD screens. Each screen would serve two dispatch stations, based on the current configuration of those stations. The display would show a live road map of our jurisdiction and eventually give us a video display of an automatic vehicle location capability we are installing next year. The live display would give dispatch an enhanced ability to route officers and resources to incidents. Such a display would also better serve command staff as to where their resources were stationed and operating during pursuits and natural disaster events.

6. We gather and maintain a lot of criminal data, but because we lack an interface to the State of Alaska ALEISS Criminal Data warehouse, we can not share that data with the other public safety agencies in our State and with the Federal authorities. The proposed interface already exists and would give us a technology that would allow the interoperable sharing of criminal data so crucial to resolving cases.

Project Goals and Objectives

Item #1 will require technical expertise in communications tower build out. We will depend on the successful vendor to provide the proper grounding expertise and because we are interoperable with the Alaska Land Mobile Radio Project we will have to require the cable grounding to meet the R56 grounding specs. The vendor will also need to use a frequency engineer to advise us on the best placement and separation of the antennas to be placed on the extended section of the tower. Our COPS Technology Grant funding is proposed for this

Item #2 will require technical expertise in the communications field for the programming, placement and duplexer installation of a Quantar Repeater and its associated heated and cooled housing unit. Also, the same issue as per in Item #1, there will be a need to properly ground the cabling proposed for the backup repeater. Our COPS Technology Grant funding is proposed for this.

Item #3 will require a communications vendor to replace the consollets with the proposed base stations. The technical expertise needed will be that of a communications engineer. The purchase of the base station is the greater expense; however there will be a cost to installing the base stations and removing the consollets. Our COPS Technology Grant funding is proposed for this.

Item #4 will require technology expertise in the area of video engineering, data transfer and data storage. This technology would allow for the installation and cabling of video camera, setting up the video transfer infrastructure and the short term storage video data collected. Our COPS Technology Grant funding is proposed for this.

Item #5 will require the purchase of two large flat screen LCD monitors and the installation and interface of those monitors to the CAD Mapping feature our current system provides. The technical expertise required to make this happen is Information Technology Support. Our COPS Technology Grant funding is proposed for this.

Item #6 will require technical expertise in the area on interfacing a records management system to a data warehouse. Both the technical expertise and the interface are already in use within Alaska. The National Law Enforcement and Corrections Technology Center-Northwest houses the only such criminal data warehouse in Alaska. Their vendor is Knowledge Management and they own the interface that we would have to use. It is the only interface that currently exists for our regional criminal data warehouse. Our COPS Technology Grant funding is proposed for this.

Implementation Plans

Timeline

Month 1 -	Scope the Project	Month 19 –	No Activity
Month 2 -	Write the Request for Proposals	Month 20 –	No Activity
Month 3 -	No Activity	Month 21 –	No Activity
Month 4 -	Review Proposals	Month 22 –	No Activity
Month 5 -	Award Proposals	Month 23 –	No Activity
Month 6 -	No Activity	Month 24 –	No Activity
Month 7 -	Start on site Project work	Month 25 –	No Activity
Month 8 -	Continue on site Project work	Month 26 –	No Activity
Month 9 -	No Activity	Month 27 –	No Activity
Month 10 -	No Activity	Month 28 –	No Activity
Month 11 -	No Activity	Month 29 –	No Activity
Month 12 -	Finish Project work	Month 30 –	No Activity
Month 13 -	Test the Technology installed	Month 31 –	No Activity
Month 14 -	No Activity	Month 32 –	No Activity
Month 15 -	Accept the Project	Month 33 –	No Activity
Month 16 -	No Activity	Month 34 –	No Activity
Month 17 -	No Activity	Month 35 –	No Activity
Month 18 -	Close out the grant	Month 36 –	No Activity

Evaluation Plans, Outcomes and Effectiveness

This project will enhance the Wasilla Police Department's crime prevention effort by giving us the ability to share criminal history information with the other public safety agencies throughout our state and in return we will be sharing their criminal history data. This capability will greatly increase our ability to track child sex offenders and those criminals on probation. Access to criminal history data from other agencies around the state will provide the ability to more quickly gather the background data needs to flesh out a case and often allows an agency to more quickly close a case.

Access to more criminal history data and better radio coverage will also allow for better officer safety due to the elimination of radio dead spots and more complete information in the hands of the first responders. Giving dispatchers a visual mapping aid will allow for a better understanding of the situation and should facilitate a more efficient delegation of requested resources. Also, having a back-up channel to the primary channel will allow for a cushion of security during times of radio outage.

Using cameras to monitor the newly built tunnel will protect the main highway and rail road line from being damaged or severed completely. This is just good preventive maintenance in response to the possibility that criminals could or would attack this infrastructure. The added advantage is the pedestrians using this tunnel can be afforded a measure of security via the proposed camera system, while they are in the tunnel.

Replacing the consollets that are creating a heat problem in the Network/Server room with the more robust base stations is also preventative maintenance and needed due to the critical infrastructure in place.

By putting a protective barricade around the Emergency Back-up Generator is an excellent crime prevention tactic in that you are in a sense making it more difficult to damage or destroy this important component of the Wasilla Police Department.

Current/Planned Community Policing and Crime Prevention Activities

The most important components of this project will enhance our working relationship with several other public safety agencies at the local, state and Federal level. The sharing of criminal history data and the improved radio coverage will give us and other agencies additional tools to pursue criminal investigations in a much more effective manner.

One advantage of the proposed cameras in the tunnel is that the public using the tunnel can be afforded a measure of security from assault and robbery simply because of the proposed camera system. Another advantage to the residents is that with these enhanced abilities and protections, the public will receive better protection and more effective public safety because the public safety infrastructure is more robust jurisdiction wide.

Budget Narrative

Equipment

A. One VHF Repeater and Housing Unit

The Wasilla Police Department does not have a back-up channel to our primary public safety channel. If we have to take our repeater down for service or we experience an outage, we go to another agency's channel and share their frequency until our primary is ready to go. We have a second tower site about 2 miles from our primary tower. We have refurbished our secondary tower site and will purchase a VHF Quantar Repeater and housing unit to put at the secondary tower site. This will give us our own back-up channel.

Total Cost of the Repeater and Housing Unit - \$34,391.

B. Three VHF Base Stations

Our Dispatch Center is supported by a Network/Server room that houses racks of communications equipment. One of those racks supports several consoles dedicated to a specific frequency. We will replace three of the most heavily used consoles with base stations. This will serve a two fold purpose. The consoles generate quite a bit more heat than do the base stations. Utilizing the base stations will protect the sensitive electronic components and keep the heat down in the Network/Server room. The base stations are much more robust than the consoles and will give us an added measure of dependability. **Total Cost of the Base Stations - \$22,761.**

C. IP Camera System

The Department of Transportation has built a tunnel underneath two of the major transportation infrastructures in Alaska. One is a five lane highway and the other is the only railroad in our state. That tunnel becomes our responsibility, effective this summer. We will install four IP Cameras in that tunnel to protect its users and to protect the highway and railroad directly above it. The video feed from those cameras will be transmitted back to the dispatch center for storage on a hard drive.

Total Cost of the IP Camera System - \$19,220.

D. LCD Flat Screen Monitors

The Wasilla Dispatch Center (Mat-Comm) has recently installed a CAD Mapping module which includes a GoFile. We will purchase and install two large monitors to provide a visual display for dispatch. The display will cover our jurisdiction and show all roads. This will allow for better resource response by the dispatch center. It will also allow for display of AVL when we add that capability over the next year.

Total Cost of the LCD Flat Screen Monitors - \$11,020.

E. One 300 GHz Internal Hard Drive

We will purchase and install a high capacity hard drive for the purpose of storing video data from our camera system. This will allow us to review incidents to determine what occurred and who was responsible. This video storage data may also be used as evidence in the event the commission of a crime or a suspect's image is captured.

Total Cost of the Internal Hard Drive - \$500.

F. Two Video Cards

This piece of equipment is to be used to allow the viewing of video. One is for use and one is for back-up. **Total Cost of the Two Video Cards - \$100.**

Other Costs

A. Labor for the Tower Extension

In the past year we received approval to build a communications tower for public safety use. We obtained the required permits and approvals and purchased a 150 ft. Valmont tower. We were able to erect and start using the first 100 ft. section. We now see a need to bring our primary repeater to our tower site for security and cost reasons. We will extend our tower the additional fifty ft. and add our primary repeater. This will also allow us to separate our current antenna load to gain more spectrum efficiency. Since we already have the additional fifty ft. of tower, we will need to hire the special laborers needed to erect the additional 50 ft. **Total Cost of Labor for Tower Extension - \$18,700.**

B. Software Interface – ALIESS

The State of Alaska has started a criminal data warehouse and many communities are presently contributing their criminal history data to build out this information pool. There is a one time cost to purchase the interface that would connect our Records Mgt. System to this data warehouse. We can then send and get data via this interface. This is a law enforcement interoperability project. **Total Cost of Interface - \$20,000.**

C. Move Primary Repeater

This is a technical project. We will hire a communications company to take down our primary repeater from an unsecured tower about one half mile from our Wasilla Police Department tower and move that repeater to the fenced and secured communications tower located beside our department. **Total Cost of the Repeater Move - \$7,047.**

D. Tower Bolts, Ladder Bolts and Cross Brace Bolts

When we did a final inventory of our tower parts, we found that we were short about 220 nuts and bolts. These are needed to put together the remaining parts of the fifty ft. extension to our communications tower. **Total Cost of Bolts - \$2,622.**

E. Ladder Clamps

The final inventory of the remaining tower parts shows we are short 12 ladder clamps. These are needed to hold the ladder in place against the cross braces of the tower. **Total Cost of the Ladder Clamps - \$384.**

Contracts/Consultants

A. Contracts

We will purchase a Maintenance/Service Contract for the interface between our records mgt. system and the criminal history data warehouse shared by the other local, state and Federal agencies in Alaska. **Total Cost of the Contract - \$3,600.**

B. Consultant Fees

We will need Project Management for the installation of the new back-up repeater and its housing unit and for the build-out of the IP Camera System. This will include the inspection of work, approval of change orders and verification of invoice amounts. We anticipate 81 hours of work will be needed to accomplish this. **Total Cost of Project Management - \$7,695.**