

# Public Safety Police Department



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**Police Department  
Administrative Division**



**Hall of Justice**



**Wireless Connection**



**Cell Phone Tower**

**Mission:** *The mission of the Public Safety Capital Improvement Program is to provide, maintain, and improve facilities and equipment that support the delivery of effective emergency services to the City of Richmond residents and visitors.*

**Program Highlights**

**Panasonic Mobile Data Computers:**

The current mobile data computers are outdated and frequently in need of repair. In addition, the current MDCs cannot support the increased technology that is necessary to support the officers in the field. Replacing our current mobile computers with Panasonic tough books will allow the officers and detectives to work from the field and obtain all of the information available via an electronic format.

**800 MHz Radio Equipment – Portable Radios:**

The current walkie-talkies used by the officers are outdated, in need of frequent repairs and will soon no longer be supported. With the recent federal decision that all public safety radios will need to be P25 compatible, it is necessary to replace our equipment in order to meet the Homeland Security goal of public safety interoperability.

**800 MHz radio Equipment – Mobile Radios and Base Stations:**

Police car radios and the Hall of Justice base station radio are outdated, in need of frequent repairs and soon will not be supported. With the recent federal decision that all public safety radios will need to be P25 compatible, it is necessary to replace our equipment in order to meet the Homeland Security goal of public safety interoperability.

**Verizon Wireless Service:**

In order to provide the officers with mobile access to the Richmond Police Department's Intranet we need to invest in a temporary wireless solution. The purchase of Verizon Wireless Aircards and the associated monthly service fees will allow officers access to their City email accounts, mug shots of suspects, and provide field reporting capabilities from their patrol cars.

**Police Department  
FY2006-07 through FY2010-11 CIP**

**Performance Measures**

**Verizon Data Service:**

Verizon Data Service will provide a dedicated T-1 line which will allow the Police Department the ability to limit internet access to only the City of Richmond's intranet.

**USB Flash Drives:**

The Police Department is migrating to field reporting capabilities where officers can write police reports in their patrol cars utilizing Panasonic Tough Books while maintaining their presence in assigned geographic neighborhoods. The use of a USB Flash Drive will allow officers the opportunity to save documents and then print them in the station.

**Closed Circuit Television Cameras:**

By the utilization of video cameras, the department enhances its ability to deter, detect, and successfully prosecute street level criminal activity; including activities like illegal dumping and graffiti.

**Gunshot Sensors – SENTRI:**

The installation of gunshot recognition equipment will provide the technology that will allow officers to immediately identify the location of gunshots. The Smart Sensor Enabled Neural Threat Recognition and Identification (SENTRI) system utilizes a patented dynamic synapse neural network technology to determine directionality and location of sounds associated with a gun being cocked, rounds being loaded into a firearm's chamber, or the gun being fired.

**Records Management Application Enhancement:**

To streamline the reporting process of certain types of crimes templates within the **New World Systems** will be developed allowing communication dispatchers or officers assigned to the dispatch center to immediately create electronic reports that are forwarded through the Records Management System.

**Police Department  
FY2006-07 through FY2010-11 CIP**

**Performance Measures**

**800 MHz Portable and Mobile Radios**

	<b>2006/2007 1-yr Target</b>	<b>2006-2007 Estimate</b>	<b>2008-2009 2-yr Target</b>
Performance Outcome:			
1- % of CIP projects delivered within 2 months of approved baseline schedule	50%	50%	100%
2- % of CIP projects that are completed Within the approved baseline budget	50%	50%	100%
3- Project delivery costs (exclusive of City-wide overhead) as % of the total Construction costs for completed costs:			
Less than \$500,000			
Between \$500,000 and \$3M	50%	50%	100%
Greater than 3 M			
<b>Total (all construction costs)</b>	<b>\$1.6M</b>		
4- % of operations and maintenance divisions Rating new of rehabilitated CIP projects as Being functional and sustainable after first year of use	50%	50%	100%
5- % of customers rating new or Rehabilitated CIP projects as meeting Established goals (4 or better based on A scale of 1-5)	100%	100%	100%

**Police Department  
FY2006-07 through FY2010-11 CIP**

**Verizon Wireless Equipment and Aircard Hardware**

**Performance Measures**

	<b>2006/2007 1-yr Target</b>	<b>2006-2007 Estimate</b>	<b>2008-2009 2-yr Target</b>
Performance Outcome:			
1- % of CIP projects delivered within 2 months of approved baseline schedule	100%	100%	100%
2- % of CIP projects that are completed Within the approved baseline budget	100%	100%	100%
3- Project delivery costs (exclusive of City-wide overhead) as % of the total Construction costs for completed costs:			
Less than \$500,000	100%	100%	100%
Between \$500,000 and \$3M			
Greater than 3 M			
<b>Total (all construction costs)</b>	<b>\$4,500</b>		
4- % of operations and maintenance divisions Rating new or rehabilitated CIP projects as Being functional and sustainable after first year of use	100%	100%	100%
5- % of customers rating new or Rehabilitated CIP projects as meeting Established goals (4 or better based on A scale of 1-5)	100%	100%	100%

**Police Department  
FY2006-07 through FY2010-11 CIP**

**Verizon Wireless Service**

**Performance Measures**

	<b>2006/2007 1-yr Target</b>	<b>2006-2007 Estimate</b>	<b>2008-2009 2-yr Target</b>
Performance Outcome:			
1- % of CIP projects delivered within 2 months of approved baseline schedule	100%	100%	100%
2- % of CIP projects that are completed Within the approved baseline budget	100%	100%	100%
3- Project delivery costs (exclusive of City-wide overhead) as % of the total Construction costs for completed costs:			
Less than \$500,000	100%	100%	100%
Between \$500,000 and \$3M			
Greater than 3 M			
<b>Total (all construction costs)</b>	<b>\$46,500</b>	<b>\$46,500</b>	<b>\$46,500</b>
4- % of operations and maintenance divisions Rating new of rehabilitated CIP projects as Being functional and sustainable after first year of use	100%	100%	100%
5- % of customers rating new or Rehabilitated CIP projects as meeting Established goals (4 or better based on A scale of 1-5)	100%	100%	100%

**Verizon Data Service**

	<b>2006/2007 1-yr Target</b>	<b>2006-2007 Estimate</b>	<b>2008-2009 2-yr Target</b>
Performance Outcome:			
1- % of CIP projects delivered within 2 months of approved baseline schedule	100%	100%	100%
2- % of CIP projects that are completed Within the approved baseline budget	100%	100%	100%
3- Project delivery costs (exclusive of City-wide overhead) as % of the total Construction costs for completed costs:			
Less than \$500,000	100%	100%	100%
Between \$500,000 and \$3M			
Greater than 3 M			
<b>Total (all construction costs)</b>	<b>\$13,836</b>	<b>\$13,836</b>	<b>\$27,672</b>

**Police Department  
FY2006-07 through FY2010-11 CIP**

**Verizon Wireless Service, Continued**

**Performance Measures**

	<b>2006/2007 1-yr Target</b>	<b>2006-2007 Estimate</b>	<b>2008-2009 2-yr Target</b>
4- % of operations and maintenance divisions Rating new of rehabilitated CIP projects as Being functional and sustainable after first year of use	100%	100%	100%
5- % of customers rating new or Rehabilitated CIP projects as meeting Established goals (4 or better based on A scale of 1-5)	100%	100%	100%

**USB Flash Drives**

	<b>2006/2007 1-yr Target</b>	<b>2006-2007 Estimate</b>	<b>2008-2009 2-yr Target</b>
<b>Performance Outcome:</b>			
1- % of CIP projects delivered within 2 months of approved baseline schedule	100%	100%	Completed
2- % of CIP projects that are completed Within the approved baseline budget	100%	100%	Completed
3- Project delivery costs (exclusive of City-wide overhead) as % of the total Construction costs for completed costs:			
Less than \$500,000	100%	100%	Completed
Between \$500,000 and \$3M			
Greater than 3 M			
<b>Total (all construction costs)</b>	<b>\$25,000</b>	<b>\$25,000</b>	
4- % of operations and maintenance Divisions rating new of rehabilitated CIP Projects as being functional and Sustainable after first year of use	100%	100%	Completed
5- % of customers rating new or Rehabilitated CIP projects as meeting Established goals (4 or better based on A scale of 1-5)	100%	100%	Completed

**Police Department  
FY2006-07 through FY2010-11 CIP**

**Mobile Data Computers – Panasonic Toughbooks**

**Performance Measures**

	<b>2006/2007 1-yr Target</b>	<b>2006-2007 Estimate</b>	<b>2008-2009 2-yr Target</b>
Performance Outcome:			
1- % of CIP projects delivered within 2 months of approved baseline schedule	100%	75%	Completed
2- % of CIP projects that are completed Within the approved baseline budget	100%	75%	Completed
3- Project delivery costs (exclusive of City-wide overhead) as % of the total Construction costs for completed costs:			
Less than \$500,000			
Between \$500,000 and \$3M	100%	100%	Completed
Greater than 3 M			
<b>Total (all construction costs)</b>	<b>\$600,000</b>	<b>\$600,000</b>	
4- % of operations and maintenance divisions Rating new of rehabilitated CIP projects as Being functional and sustainable after first year of use	100%	100%	Completed
5- % of customers rating new or Rehabilitated CIP projects as meeting Established goals (4 or better based on A scale of 1-5)	100%	100%	Completed

**Closed Circuit Television**

	<b>2006/2007 1-yr Target</b>	<b>2006-2007 Estimate</b>	<b>2008-2009 2-yr Target</b>
Performance Outcome:			
1- % of CIP projects delivered within 2 months of approved baseline schedule	50%	50%	100%
2- % of CIP projects that are completed Within the approved baseline budget	50%	50%	100%
3- Project delivery costs (exclusive of City-wide overhead) as % of the total Construction costs for completed costs:			
Less than \$500,000			
Between \$500,000 and \$3M	50%	50%	100%
Greater than 3 M			
<b>Total (all construction costs)</b>	<b>\$500,000</b>		



**Police Department  
FY2006-07 through FY2010-11 CIP**

**Mobile Data Computers – Panasonic Toughbooks, Continued**

**Performance Measures**

	<b>2006/2007 1-yr Target</b>	<b>2006-2007 Estimate</b>	<b>2008-2009 2-yr Target</b>
4- % of operations and maintenance divisions Rating new of rehabilitated CIP projects as Being functional and sustainable after first year of use	50%	50%	100%
5- % of customers rating new or Rehabilitated CIP projects as meeting Established goals (4 or better based on A scale of 1-5)	100%	100%	100%

**Gunshot Sensors**

**Performance Measures**

	<b>2006/2007 1-yr Target</b>	<b>2006-2007 Estimate</b>	<b>2008-2009 2-yr Target</b>
Performance Outcome:			
1- % of CIP projects delivered within 2 months of approved baseline schedule	50%	50%	100%
2- % of CIP projects that are completed Within the approved baseline budget	50%	50%	100%
3- Project delivery costs (exclusive of City-wide overhead) as % of the total Construction costs for completed costs:			
Less than \$500,000	50%	50%	50%
Between \$500,000 and \$3M			
Greater than 3 M			
<b>Total (all construction costs)</b>	<b>\$100,000</b>		
4- % of operations and maintenance divisions Rating new of rehabilitated CIP projects as Being functional and sustainable after first year of use	50%	50%	100%
5- % of customers rating new or Rehabilitated CIP projects as meeting Established goals (4 or better based on A scale of 1-5)	100%	100%	100%

**Police Department  
FY2006-07 through FY2010-11 CIP**

**Records Management System Application Enhancements**

**Performance Measures**

	<b>2006/2007 1-yr Target</b>	<b>2006-2007 Estimate</b>	<b>2008-2009 2-yr Target</b>
Performance Outcome:			
1- % of CIP projects delivered within 2 months of approved baseline schedule	75%	75%	100%
2- % of CIP projects that are completed Within the approved baseline budget	75%	75%	100%
3- Project delivery costs (exclusive of City-wide overhead) as % of the total Construction costs for completed costs:			
Less than \$500,000	75%	75%	100%
Between \$500,000 and \$3M			
Greater than 3 M			
<b>Total (all construction costs)</b>	<b>\$50,000</b>		
4- % of operations and maintenance divisions Rating new of rehabilitated CIP projects as Being functional and sustainable after first year of use	75%	75%	100%
5- % of customers rating new or Rehabilitated CIP projects as meeting Established goals (4 or better based on A scale of 1-5)	100%	100%	100%

**Police Department  
FY2006-07 through FY2010-11 CIP**

**OVERVIEW**

**Introduction**

**Panasonic Mobile Data Computers**

Replacing our current mobile computers with Panasonic tough books will allow the officers and detectives to work from the field and obtain critical information via an electronic format.

**800 MHz Radio Equipment – Portable Radios**

With the recent federal decision that all public safety radios will need to be P25 compatible, which means that the equipment will need to be able to communicate with the radio systems within our region, it is necessary to replace our current radios. This will also allow us to meet the Homeland Security goal of public safety interoperability.

**800 MHz radio Equipment – Mobile Radios and Base Stations**

With the recent federal decision that all public safety radios will need to be P25 compatible, which means that the equipment will need to be able to communicate with the radio systems within our region, it is necessary to replace the radios located in our police vehicles and the base stations located in the Hall of Justice. This will also allow us to meet the Homeland Security goal of public safety interoperability.

**Verizon Wireless Service**

The purchase of Verizon Wireless Aircards and the associated monthly service fees will allow the officers access to their City email accounts, mugshots of suspects, and field reporting capabilities from their patrol cars via a wireless connection. This is a temporary solution until the City determines the type of wireless connection they will implement city-wide.

**Verizon Data Service**

Verizon Data Service will provide a dedicated T-1 line which will allow the Police Department the ability to limit internet access to only the City of Richmond's intranet. By limiting the internet access, officers will be able to utilize necessary law enforcement data, but not be able to routinely "surf the net" while on-duty.

**USB Flash Drives**

The Police Department is migrating to field reporting capabilities where the officers can write their police reports in their patrol cars utilizing their Panasonic Tough Books while maintaining their presence in their geographic neighborhoods. The use of a USB Flash Drive will allow the officers the opportunity to save their documents and then print them in the station.

**Police Department  
FY2006-07 through FY2010-11 CIP**

**Closed Circuit Television Cameras**

A growing trend in both large and small communities is the utilization of video cameras to deter, detect, and successfully prosecute street level criminal activity, including activities like illegal dumping and graffiti. The Richmond Police Department is recommending the City of Richmond move forward with a CCTV program that includes the placement of fixed cameras wired into the streetscape infrastructure, designating wireless CCTV cameras at crime “hotspots,” and video monitors with digital recording equipment.

**Gunshot Sensors – SENTRI**

The City of Richmond would like to install gunshot recognition equipment in order to immediately identify the location of gunshots. The Smart Sensor Enabled Neural Threat Recognition and Identification (SENTRI) system utilizes a patented dynamic synapse neural network technology to determine directionality and location of sounds associated with a gun being cocked, rounds being loaded into a firearm’s chamber, or the gun being fired. The sounds from the street will be recorded on a “super-computer” that will isolate the sound signature amidst any type of background noise and pinpoint the location of the gunshots. This will enable our communications center to immediately dispatch officers to the targeted location in order to positively impact gun related violence.

**Records Management Application Enhancement**

In order to streamline the reporting process of certain types of crimes we need to create templates within the New World Systems that will allow the communications dispatchers or officers assigned to the dispatch center to immediately create electronic reports that will be forwarded to the Records Management System. These templates will be utilized to document misdemeanor crimes such as graffiti or vandalism damage, hit and run accidents, auto burglaries, or other crimes where there is no suspect information and no leads for investigative follow-up.

**City of Richmond**  
**FY2006-2007 - FY2010-11 CIP**




**5. Police Department**

Project Name	Prior Year						5 Year Total
	FY2005-06	FY2006-07	FY2007-08	FY2008-09	FY2009-10	FY2010-11	
1 Closed Circuit TV(CCTV) Cameras	\$0	\$500,000	\$0	\$0	\$0	\$0	\$500,000
2 Gunshot Sensors	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000
3 Mobile Communications Upgrade - Portable	\$0	\$800,000	\$0	\$0	\$0	\$0	\$800,000
4 Mobile Communications Upgrade - Fixed	\$0	\$800,000	\$0	\$0	\$0	\$0	\$800,000
5 Mobile Data Computer Upgrade/Replacement	\$0	\$600,000	\$0	\$0	\$0	\$0	\$600,000
6 Records Management Appl Enhancement	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000
<b>Subtotal Police</b>	<b>\$0</b>	<b>\$2,850,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,850,000</b>
<b>Total Funded</b>	<b>\$0</b>	<b>\$2,850,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,850,000</b>
<b>Total Unfunded</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Sources</b>							
IT Internal Service Fund	\$0	\$2,800,000	\$0	\$0	\$0	\$0	\$2,800,000
Local Law Enforcement Block Grant (LLEBG)	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000
<b>Total Police Department</b>	<b>\$0</b>	<b>\$2,850,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,850,000</b>

**Richmond**  
**2006/07-2010/11 Capital Improvement Program**

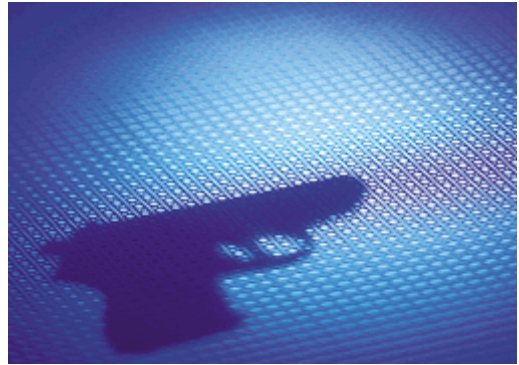
**Project Description Report**

Project Name:	Closed Circuit Television (CCTV) Cameras	
Project Manager:	Chief Chris Magnus	
Department Responsible:	Police	
Project Description:	To assist with code enforcement (i.e. illegal dumping, general blight concerns, storage, etc.) and hot spot crime areas.	
Justification:	Developing plans include the use of "state of art" camera system with full pan, tilt, zoom features that is capable of facial and license plate recognition.	
Total Estimated Cost:	\$500,000	

Source Of Funding						
Fund No	Fund Name	Requested FY 06/07	Projected FY 07/08	Projected FY 08/09	Projected FY 09/10	Projected FY 10/11
4051_IT	IT Internal Service Fund (ISF)	\$500,000	\$0	\$0	\$0	\$0


**Richmond**  
**2006/07-2010/11 Capital Improvement Program**

**Project Description Report**

Project Name:	Gunshot Sensors	
Project Manager:	Chief Chris Magnus	
Department Responsible:	Police	
Project Description:	Wireless acoustics sensors for public safety.	
Justification:	Wireless acoustic sensors are planned to be strategically placed for public safety to detect audio from firearms.	
Total Estimated Cost:	\$100,000	

Source Of Funding						
Fund No	Fund Name	Requested FY 06/07	Projected FY 07/08	Projected FY 08/09	Projected FY 09/10	Projected FY 10/11
4051_IT	IT Internal Service Fund (ISF)	\$100,000	\$0	\$0	\$0	\$0


**Richmond**  
**2006/07-2010/11 Capital Improvement Program**  
**Project Description Report**

Project Name:	Mobile Communications Upgrade - Portable	
Project Manager:	Chief Chris Magnus	
Department Responsible:	Police	
Project Description:	Portable radios - hand held.	
Justification:	The current radios are outdated (5yrs old) have been frequently repaired and are almost at the end of life support. With the Federal Governments P25 compatibility requirements it will be necessary to replace the radios with newer more current equipment that will support all different radio systems for the purpose of Homeland Security Interoperability.	
Total Estimated Cost:	\$800,000	

Source Of Funding						
Fund No	Fund Name	Requested FY 06/07	Projected FY 07/08	Projected FY 08/09	Projected FY 09/10	Projected FY 10/11
4051_IT	IT Internal Service Fund (ISF)	\$800,000	\$0	\$0	\$0	\$0




**Richmond**  
**2006/07-2010/11 Capital Improvement Program**  
**Project Description Report**

Project Name:	Mobile Communications Upgrade - Fixed	
Project Manager:	Chief Chris Magnus	
Department Responsible:	Police	
Project Description:	Mobile radios (fixed in vehicles) and/or base station (in station).	
Justification:	The current radios are outdated (5yrs old) have been frequently repaired and are almost at the end of life support. With the recent Federal Governments P25 compatability requirements it will be necessary to replace the radios with newer more current equipment that will support all different radio systems for the purpose of Homeland Security Interoperability.	
Total Estimated Cost:	\$800,000	

Source Of Funding						
Fund No	Fund Name	Requested FY 06/07	Projected FY 07/08	Projected FY 08/09	Projected FY 09/10	Projected FY 10/11
4051_IT	IT Internal Service Fund (ISF)	\$800,000	\$0	\$0	\$0	\$0

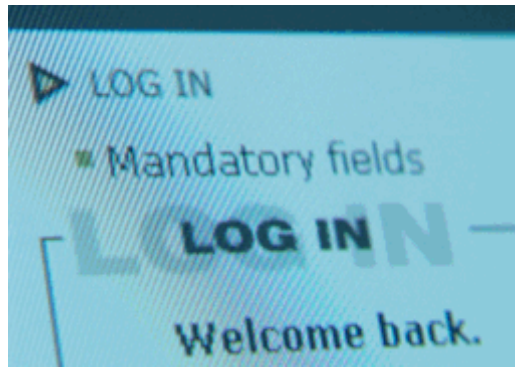
**Richmond**  
**2006/07-2010/11 Capital Improvement Program**

**Project Description Report**

Project Name:	Police Mobile Data Computer Upgrade/Replacement	
Project Manager:	Chief Chris Magnus	
Department Responsible:	Police	
Project Description:	Deploy new mobile data computers in police vehicles.	
Justification:	The current mobile data computers are aging and require replacement for public safety. Refresh technology to meet the on-going demand of new software and solutions.	
Total Estimated Cost:	\$600,000	

Source Of Funding						
Fund No	Fund Name	Requested FY 06/07	Projected FY 07/08	Projected FY 08/09	Projected FY 09/10	Projected FY 10/11
4051_IT	IT Internal Service Fund (ISF)	\$600,000	\$0	\$0	\$0	\$0

**Richmond**  
**2006/07-2010/11 Capital Improvement Program**  
**Project Description Report**

Project Name:	Records Management Application Enhancement	
Project Manager:	Chief Chris Magnus	
Department Responsible:	Police	
Project Description:	Field reporting templates.	
Justification:	In order to streamline the reporting process for misdemeanor crimes and to document incidents which will not require any investigative follow-up. Application enhancements are required to create reporting templates that can be quickly completed by dispatch personnel, these electronic reports will need to automatically populate into the New World (NW) Records Management System.	
Total Estimated Cost:	\$50,000	

Source Of Funding						
Fund No	Fund Name	Requested FY 06/07	Projected FY 07/08	Projected FY 08/09	Projected FY 09/10	Projected FY 10/11
LLEBG	Local Law Enforcement Block Grant	\$50,000	\$0	\$0	\$0	\$0