

TO: James L. App, City Manager
FROM: Dennis J. Cassidy, Chief of Police
SUBJECT: Geographic Information System Mapping Upgrade
DATE: November 21, 2006

NEEDS: For the City Council to consider authorizing an upgrade to the Police Department's current Computer Aided Dispatching system to include Geographic Information System (GIS) software for mapping public safety calls for service.

FACTS:

1. The Police Department is eligible for \$30,000 from the State of California to purchase GIS software to allow for electronic mapping of all calls for service received by the Dispatch Center.
2. The Police Department has applied for and been approved by the State for GIS funding, under a detailed spending plan and project statement. (Attachment "A")
3. The project plan identifies the Department's current Computer Aided Dispatch (CAD) provider, Executive Information Services (EIS), as the sole-source vendor for the GIS software, as it is considered an upgrade to the current CAD system.
4. City IT staff has reviewed and approves of the GIS project plan as submitted.

**ANALYSIS &
CONCLUSION:**

Mapping is an important component to public safety dispatching. The State of California is providing funding for the installation of such equipment to assist with the mapping of E911 cellular phone calls to better locate parties reporting emergencies from locations not subject to the standard Automated Location /Number Information (ALI/ANI) system that is incorporated into hard line telephones. Once the system is installed, it is integrated to the Department's entire Computer Aided Dispatch system, so it provides mapping capability for all calls for service received by the center. The system is also capable of future upgrades that will provide valuable additional features, such as Automated Vehicle (Officer) Locator (AVL) information when combined with Global Positioning Satellite (GPS) data. These enhancements will provide increased safety for the public and our officers.

**POLICY
REFERENCE:**

City purchasing policy.

**FISCAL
IMPACT:**

While the department is eligible for \$30,000, this initial phase will cost \$22,400. It is unknown at this time when the remaining eligible funds will be spent. Thus, this request is for only a budget appropriation for the initial \$22,400. The receipt of grant funds on a reimbursement basis and their expenditure will be ran through the General Fund. There is no net impact upon General Fund resources.

OPTIONS:

- a. Adopt Resolution No. 06-xx authorizing the execution of the Police Department's State approved GIS spending plan; a budget appropriation of \$22,400 to general fund #100-210-5454-140; a revenue budget adjustment of \$22,400 to general fund #100-000-4617-140; and the acceptance of State of California funding as reimbursement for all project related expenses.
- b. Amend, modify, or reject the above option.

RESOLUTION NO. 06-

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF
EL PASO DE ROBLES AUTORIZING THE EXECUTION OF THE POLICE
DEPARTMENT'S STATE APPROVED GIS SPENDING PLAN AND
ACCEPTANCE OF STATE OF CALIFORNIA REIMBURSEMENT**

WHEREAS, the City Council of El Paso de Robles Police Department is eligible for \$30,000 from the State of California to purchase GIS software to allow for electronic mapping of all calls for service received by the Dispatch Center; and

WHEREAS, the Police Department has applied for and been approved by the State of California for GIS funding, under a detailed spending plan and project statement; and

WHEREAS, the project plan identifies the Department's current Computer Aided Dispatch (CAD) provider, Executive Information Services (EIS), as the sole-source vendor for the GIS software, as it is considered an upgrade to the current CAD system;

WHEREAS, all project related expenses complying with the approved GIS spending plan will be reimbursed to the City by the State of California through an established claims process.

NOW, THEREFORE, BE IT HEREBY RESOLVED that the City Council of the City of El Paso de Robles does authorize the execution of the Police Department's State approved GIS spending plan and the acceptance of State of California funding as reimbursement for all project related expenses.

BE IT FURTHER RESOLVED by the City Council of the City of El Paso de Robles that a General Fund budget appropriation for \$22,400 to budget account 100-210-5454-140 and an offsetting grant revenue adjustment in a like amount to revenue account 100-000-4617-140 is hereby approved.

APPROVED AND ADOPTED by the City Council of the City of El Paso de Robles this 21st day of November, 2006 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Frank R. Mecham, Mayor

Attest:

Deborah Robinson, Deputy City Clerk

GIS Spending Plan Summary

PSAP: Paso Robles Police Department
Completed By: Captain Lisa Solomon
Title: PSAP Manager
Date: October 4, 2006

I submit that I am a representative of the public safety answering point (PSAP) noted above and have been authorized to act on behalf of this PSAP to request Geographical Information System (GIS) funding from the State 9-1-1 Office. I have completed the required GIS Spending Plan Summary and Checklist (attached) and understand the various issues regarding GIS in PSAPs as explained in the detail of the GIS Checklist provided by the State 9-1-1 Office. Furthermore, I understand the GIS allotment is limited to that amount specified in our PSAP's GIS allotment letter from the State 9-1-1 Office and that no other State 9-1-1 Office funding is available exclusively for GIS.

By: *Jim Chitty*
 (Signature of PSAP Representative)

GIS Spending Plan Category	Brief Description of Item	Contractor (Vendor or other Payee)	Expected Timeline (when cost will be incurred)	Desired Funding Method	Method of Documenting Proof of Payment	Cost (Exact or Estimated)	Notes
Map Dataset Costs (See Checklist Question 1)	GIS Dataset Enhancement	Executive Information Services	December 1, 2006	State Form TD-290	Invoice from EIS	\$20,725.00	\$10,000 per dispatch station (2), plus tax

GIS Spending Plan Summary

GIS Spending Plan Category	Brief Description of Item	Contractor (Vendor or other Payee)	Expected Timeline (when cost will be incurred)	Desired Funding Method	Method of Documenting Proof of Payment	Cost (Exact or Estimated)	Notes
Map Dataset Maintenance (See Checklist Question 2)	GIS Dataset Maintenance	EIS	Once a year, included in the maintenance cost	N/A	N/A	N/A	
GIS Application Software (See Checklist Question 3)	Updates of Mapping services	American Digital Cartography, Inc, CA Dept of Forestry, EIS	Once per year or as needed				
System Upgrades (See Checklist Question 4.)	Additional Monitor for maps @ each dispatch workstations Video card upgrade to support additional monitor	CDWG – HP LCD Monitor CDWG – Colorgraphic FireMV2400 128MB PCI LP	September 20, 2006 June 21, 2006	State Form TD-290 State Form TD-290	Price Paid – Receipt Price Paid – Receipt	\$784.76 \$890.41	
9-1-1 Interface (See Checklist Question 5)	Upgrade of CAD system included by EIS with GIS enhancement	EIS	December 1, 2006	N/A	N/A	N/A	

GIS Spending Plan Summary

GIS Spending Plan Category	Brief Description of Item	Contractor (Vendor or other Payee)	Expected Timeline (when cost will be incurred)	Desired Funding Method	Method of Documenting Proof of Payment	Cost (Exact or Estimated)	Notes
Training Plan (See Checklist Question 6.)	Training sessions for admin staff and PSAP staff at time of installation and as needed after installation.	EIS	December 1, 2006	N/A	N/A	N/A	Included with GIS Enhancement cost
Acceptance Test Plan - ATP (See Checklist Question 7)	System must be tested and stable for 30 days before payment.	EIS	30 days after install or within 30 days of stable use	N/A	N/A	\$0	
GIS Implementation Timeline (See Checklist Question 8)	Currently in progress. Expected finish date of December 1, 2006	EIS	December 1, 2006	N/A	N/A	N/A	We have not identified any future costs, but request that residual allotment monies be reserved for unexpected upgrades or maintenance beyond that already shown.
Total GIS Cost (See Checklist Question 9)						\$22,400.17	

GIS Spending Plan Summary

GIS Spending Plan Category	Brief Description of Item	Contractor (Vendor or other Payee)	Expected Timeline (when cost will be incurred)	Desired Funding Method	Method of Documenting Proof of Payment	Cost (Exact or Estimated)	Notes
One-Time GIS Allotment						\$30,000.00	
Cost to PSAP	Note: Alternative funding source should be identified if there is shortage.					\$7,599.83 residual	See note above

GIS Spending Plan Summary

City of Paso Robles Police Department

GIS Mapping Project

August 2006

GIS Project Statement

The Paso Robles Police Department will be acquiring the Executive Information Services new psNET CAD – GIS Compliant Software that shall accommodate the State of California Wireless-ALI Format as well as future formats and be integrated by Executive Information Services into their system, for two approved workstations. The GIS shall use approximately 6 or more map layers from ESRI shape files to display the most accurate location of any 9-1-1 caller and be fully functional with all service provider's Wireless, VoIP, Telematics, and others) data variations for \$20,000 by December 2006. This installation also includes maps provided by the City of Paso Robles as the City has a staff member that is trained and versed in the detailed development of ESRI shape files and accompanying GeoFiles. These maps and GeoFiles will be updated and maintained on a regular basis by the City of Paso Robles. Our integrated CAD system is covered under an ongoing contract with EIS.

Project Statement

The Paso Robles Police Department will be acquiring the Executive Information Services, Advanced psNET CAD with GIS Mapping that shall accommodate all the State of California ALI Format as well as future formats and be integrated by our PSAP provider's 2 workstations. The GIS shall use approximately 6 map layers from the California Department of Forestry and our in-house GIS Mapping Division to display the most accurate location of any 9-1-1 caller and be fully functional with all service provider's (Wireless, VoIP, Telematics, and others) data variations for \$20,000 by October 2006. This installation also includes the upgrades of

GIS Spending Plan Summary

map display software by the City of Paso Robles and Executive Information Services for extended years of service at a cost of approximately \$6,000 per year, maintenance and licensing included. Additional updates and datasets will be acquired by the City from the California Department of Forestry, GIS Division, developed by the City staff internally and/or with the assistance of the GIS Educational Unit at CalPoly San Luis Obispo. Any additional resource of updated mapping could be American Digital Cartography, Inc, for an annual cost of approximately \$1,000, as well.

GIS SPENDING PLAN CHECKLIST

Question 1: Yes X No

Have you identified the source of all GIS map datasets to be used in the PSAP for E9-1-1 purposes?

Yes, the agency has been involved in a long term relationship with Executive Information Services for our CAD and RMS services. EIS has recently upgraded their CAD system to support GIS mapping that the agency will be using for this project. As part of the EIS CAD system, they are providing map shape files and supporting database information from files available from within the City Government structure and possibly from the California Department of Forestry (CDF), GIS Division, and through our in-house sources. These files will be used as the basis of our new CAD system. The software also has maintenance programs for updating the current database, making necessary corrections, and with the additional option of an ongoing in-house support development from the other Departments of the City Government. It is planned that our in-house support staff will be constantly upgrading, developing, and creating new layers of mapping services as the needs call for it.

Question 2: Yes X No

Have you identified the level of map dataset maintenance that will be required?

Yes, we have identified the necessary layers to provide our community with essential public safety needs. These needs include Police, Fire, and Emergency Medical services. The layers will provide enough detail information to support the new wireless E-9-1-1 services. We currently plan to install approximately 6 different layers within the shape files.

GIS Spending Plan Summary

Additionally, we are seeking services from the local Community College and from Cal Poly SLO for support mapping services via their current GIS programs. We also have at our disposal in-house GIS mapping services working in the ESRI format and versed in the use and development of the Arc-View software.

Question 3: Yes No

Have you identified the GIS map-reader software and/or other GIS software applications to be used in the PSAP?

The City of Paso Robles is a licensed user of Arc-View Software and supporting systems. Additionally, we will be seeking the support assistance of in-house staff dedicated to GIS mapping for the City. Using the software developed by Executive Information Services and maintained under our ongoing maintenance contract, we have secured long term support for these services. Executive Information Services will install, use and maintain the GIS information along with the support of staff from Paso Robles Police Department.

Question 4: Yes No

Have you determined the computer system to be used and any necessary hardware/software upgrades needed for your GIS?

Yes. Paso Robles Police Department will be using the current version of Windows XP workstations, current servers and supporting network to support this software installation. The Department has and continues to maintain a full service network to support our computer needs. We have been a user of the EIS CAD/RMS system for approximately 5 years and have secured ongoing contracts to keep continuous support and maintenance.

Question 5: Yes No

Have you determined how the mapping system will interface to the E9-1-1 system?

Yes. The City of Paso Robles Police Department has been a long standing customer and user of the EIS psNET CAD software and has been running this software for approximately 5 years. Executive Information Services has recently developed a new GIS CAD

GIS Spending Plan Summary

system that fully interfaces with the standards of the E9-1-1 ANI and ALO data elements and presents the users with the appropriate dot on the map. Using new shapefiles available from our in-house source and the CDF mapping layers, we expect that our PSAPs should be able to easily identify the exact location of the incoming request for assistance, within the limitations of the State standards.

Currently EIS does a full integration into our incoming 9-1-1 calls and their advanced GIS system will support our mapping needs. The costs for these needs are quoted at \$10,000 per position, somewhat less than their normal cost for these services as our agency is a continuing customer with EIS and they are working with our City to upgrade our PSAP services.

Question 6: Yes X No

Have you determined what kinds of GIS training will be needed for 9-1-1 call takers and others?

We realize that training is a key to success. As such, as part of our installation and project development, EIS is providing ongoing training to our staff and makes their company available on a regular basis as part of our ongoing Maintenance Contract that we have established with them.

Question 7: Yes X No

Do you have an acceptance test plan (ATP) for the GIS?

Our agency will not compensate the vendor until the entire product is tested and approved for operation. This is an ongoing process and cannot be fully implemented due to the limitation of the growing technology and because the operation Phase II E9-1-1 is not completed by the telephone companies. However, in an attempt to protect our investment, we will test this installation and not generate payment until the system is stable for 30 days.

Additionally, with the ongoing contract with EIS, any changes that come from the State of California and/or the E9-1-1 providers, EIS has agreed to support our needs at no additional costs. This is an important key to our agency as we have found that the State does not meet their deadlines, changes formats, and allows the telephone companies to make changes that affect the systems that have been purchased and are in place. These changes and delays are totally out of our hands, but we are pleased that our vendor realizes these conditions and continues to support our needs at no additional costs.

GIS Spending Plan Summary

Question 8: Yes No

Have you determined a timeline for GIS implementation?

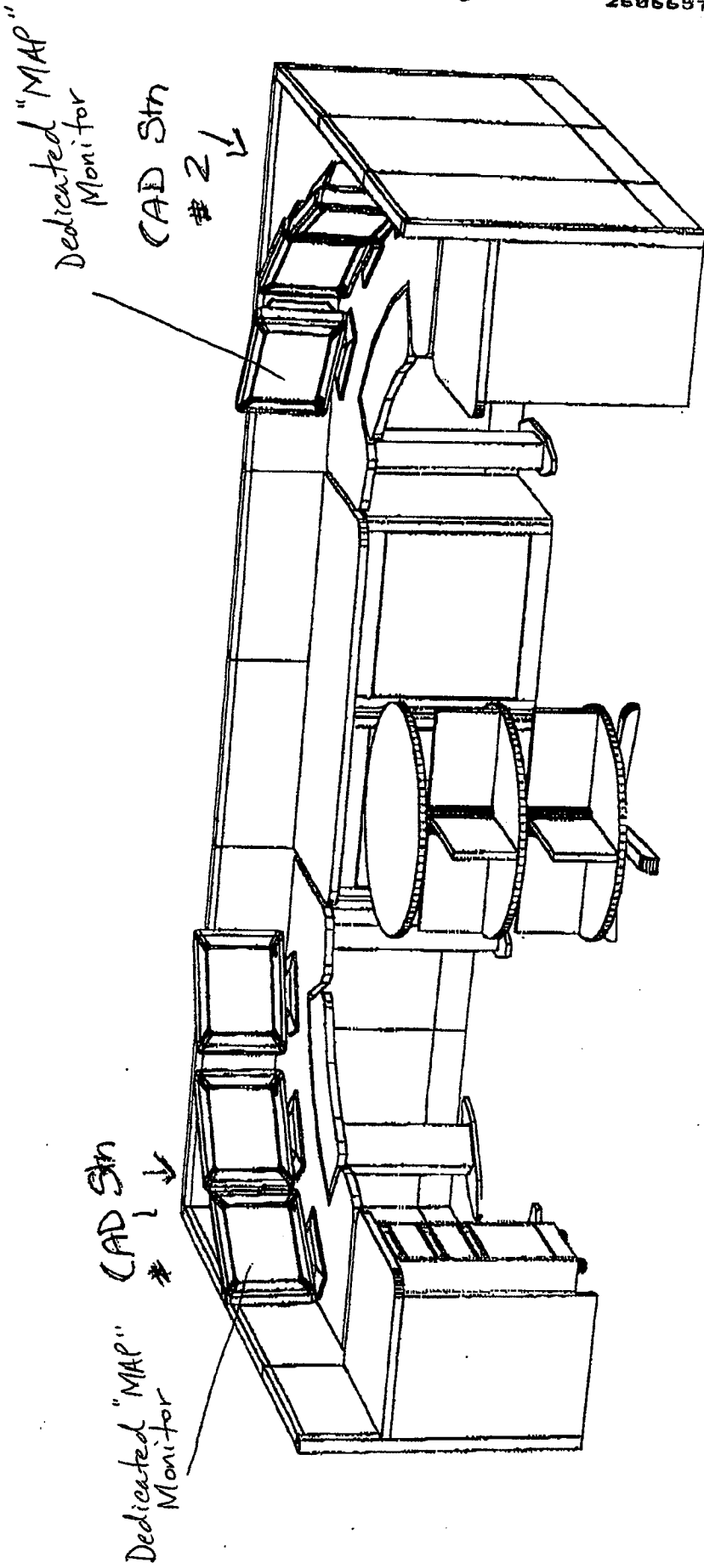
Yes. The City of Paso Robles is currently in the process of the CAD upgrade that will include these components. We are expected to complete the installation of this upgrade by December 2006 or sooner.

Question 9: Yes No

Have you described all GIS elements with their respective costs and listed each requested reimbursement item in a GIS Spending Plan Summary?

Yes. We have identified mapping sources, licensing needs, and support sources for future development of maps and GeoFile. Most of these elements are already owned, operated and supported by the City.

We have identified installation timelines, training, and implementation plans for the overall project as well as the individual GIS needs. We are expected to be full compliant and running by December 2006.



Sep. 13 2006 09:04AM Pg

FRX NO. :

FROM :

Executive Information Services, Inc.

2320 NE 2nd Street, Suite 3B
Ocala, FL 34470
(801) 543-5989

INVOICE

BILL TO
Paso Robles Police Department 840 10th Street Paso Robles, CA 93446
ATTENTION: Lisa Solomon

PROJECT
GIS CAD Mapping System

INVOICE NUMBER	DATE
6146	8/13/2006

P.O. NUMBER	ORDER DATE	VENDOR NO	TERMS	SHIP VIA
VERBAL	8/9/2006		NET	

PS.NET CAD Advanced Mapping	
State of California compliant	
Enhanced E-9-1-1 GIS CAD Mapping System Software (2 Each)	\$10,000.00
Services	\$10,000.00
Installation	
User Training	
Documentation	
Map Setup and Configuration	
Support	

Taxable Amount	\$10,000.00	Tax	\$725.00
TOTAL AMOUNT OF THIS INVOICE		\$20,725.00	

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INVOICE DATE	INVOICE NUMBER	INVOICE TERMS	DUE DATE
09/20/2006	BXS9899	NET 30 Days-Govt/State-Local	10/20/2006

OUR PART NO.	DESCRIPTION	QTY ORD	QTY SHIP	QTY B/O	UNIT PRICE	TOTAL
771741	HP SB L1955 19IN LCD DVI ADJ Manufacture Part Number: PD974A8#ABA Serial Number: SCNK6310CDY	2	2	0	\$333.00	\$666.00
654810	RECYCLING FEE 15" TO LESS THAN 35" Manufacture Part Number: CAL RECYCLE FEE 2	2	2	0	\$8.00	\$16.00

FILE COPY

Dispatch 3rd monitors

ACH INFORMATION: THE NORTHERN TRUST ROUTING NO.: 071000152
50 SOUTH LASALLE STREET ACCOUNT NAME: CDW GOVERNMENT INC
CHICAGO, IL 60675 ACCOUNT NO.: 91057

HAVE QUESTIONS ABOUT YOUR ACCOUNT? PLEASE EMAIL US AT: credit@cdw.com

ORDER DATE 09/20/2006	SHIP VIA FEDEX 2 Day	PURCHASE ORDER NO. 09.20.2006-PD MONITO	CUSTOMER NO. 7076518	PRODUCT SUBTOTAL \$682.00
SALESPERSON CAROLINE BINTZ 312-705-8940 carobin@cdwg.com		SHIP TO: CITY OF PASO ROBLES DAVID MCCUE 1000 SPRING ST PASO ROBLES CA 93446-2599		SALES ORDER NUMBER DCZ7961
				SHIPPING \$54.47
				SALES TAX \$48.29
				INVOICE AMOUNT \$784.76
				AMOUNT DUE \$784.76

CDW GOVERNMENT, INC. AN ILLINOIS CORPORATION FEIN 36-4230110

MAKE CHECKS PAYABLE TO:



CDW Government, Inc.
75 Remittance Drive, Suite 1515
Chicago, IL 60675-1515

RETURN SERVICE REQUESTED

PLEASE DETACH AND RETURN THIS PORTION WITH YOUR PAYMENT

INVOICE NUMBER BXS9899	INVOICE DATE 09/20/2006	CUSTOMER NUMBER 7076518
PRODUCT SUBTOTAL \$682.00	SHIPPING \$54.47	SALES TAX \$48.29
INVOICE AMOUNT \$784.76	AMOUNT DUE \$784.76	

SOLD TO:

REMIT TO:

CITY OF PASO ROBLES
ACCT PAYABLE
1000 SPRING ST
PASO ROBLES, CA 93446-2599

CDW GOVERNMENT, INC.
75 REMITTANCE DRIVE
SUITE 1515
CHICAGO, IL 60675-1515



VISIT CDWG ON THE INTERNET www.cdwg.com

INVOICE DATE	INVOICE NUMBER	INVOICE TERMS	DUE DATE
06/21/2006	BBG2548	NET 30 Days-Gov/State-Local	07/21/2006

ORDER PART NO.	DESCRIPTION	QTY ORD	QTY SHIP	QTY B/O	UNIT PRICE	TOTAL
828708	HP SB DC7600 SFF H8/3.4 80G 512G XPP Manufacture Part Number: PZ630UA#ABA Serial Number: SMXL6240FOC Serial Number: SMXL6240FOD	2	2	0	\$862.96	\$1,725.92
895192	HP 1.44MB INTERNAL FLOPPY Manufacture Part Number: AG296AA	2	2	0	\$25.00	\$50.00
823258	COLORGRAPHIC FIREMV2400 128MB PCI LP Manufacture Part Number: 100-505113	2	2	0	\$415.11	\$830.22
736813	EDGE 512MB PC4200 240PIN DESKTOP Manufacture Part Number: PE197704	2	2	0	\$50.73	\$101.46

graphics cards

ACCOUNT INFORMATION: THE NORTHERN TRUST ROUTING NO.: 071000152
 59 SOUTH LASALLE STREET ACCOUNT NAME: CDW GOVERNMENT INC
 CHICAGO, IL 60675 ACCOUNT NO.: 91057

HAVE QUESTIONS ABOUT YOUR ACCOUNT? PLEASE EMAIL US AT: credit@cdw.com

ORDER DATE 06/19/2006	SHIP VIA AIT - Deferred, 7-10 Days	PURCHASE ORDER NO. CHT5437	CUSTOMER NO. 7076518	PRODUCT SUBTOTAL	\$2,707.60
SALESPERSON CAROLINE BINTZ 312-705-8940 carobin@cdwg.com			SHIP TO: CITY OF PASO ROBLES DAVID MCCUE 1000 SPRING ST PASO ROBLES CA 93446-2599	SALES ORDER NUMBER CHT5437	SHIPPING \$0.00
				SALES TAX	\$196.30
				INVOICE AMOUNT	\$2,903.90
				AMOUNT DUE	\$2,903.90

CDW GOVERNMENT, INC. AN ILLINOIS CORPORATION FEIN 36-4230110

MAKE CHECKS PAYABLE TO:



CDW Government, Inc.
 75 Remittance Drive, Suite 1515
 Chicago, IL 60675-1515

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INVOICE NUMBER BBG2548	INVOICE DATE 06/21/2006	CUSTOMER NUMBER 7076518
PRODUCT SUBTOTAL \$2,707.60	SHIPPING \$0.00	SALES TAX \$196.30
INVOICE AMOUNT \$2,903.90		AMOUNT DUE \$2,903.90

SOLD TO:

REMIT TO:

CITY OF PASO ROBLES
 ACCT PAYABLE
 1000 SPRING ST
 PASO ROBLES, CA 93446-2599

CDW GOVERNMENT, INC.
 75 REMITTANCE DRIVE
 SUITE 1515
 CHICAGO, IL 60675-1515