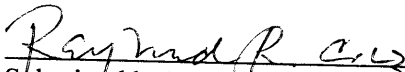





# City of Carson Report to Mayor and City Council

April 3, 2012  
New Business Consent

**SUBJECT: CONSIDERATION OF AN AWARD OF A PURCHASE ORDER TO PIPS TECHNOLOGY TO PROVIDE AND INSTALL THE INITIAL PHASE OF THE COMMUNITY SAFETY CAMERA PROGRAM**

  
Submitted by Raymond R. Cruz  
Public Services General Manager

  
Approved by David C. Biggs  
City Manager

## **I. SUMMARY**

The City of Carson has applied for, and received, \$295,680.00 in American Recovery and Reinvestment (ARRA) Grant funds. At the City Council meeting on February 2, 2010, Council authorized the expenditure of the ARRA Grant funds on a proposed community safety camera program (Exhibit No. 1). Staff has worked with the Sheriff's technology deputies to develop an initial phase of the program that will meet the intent of the grant proposal. Sheriff's deputies have subsequently worked with PIPS Technology to design a system that will implement this initial phase without exceeding the available grant funds (Exhibit No. 2). Staff is requesting that: 1) the City Council waive the bidding requirements of Carson Municipal Code (CMC) Section 2607, as allowed by CMC Section 2604(a) (Exhibit No. 3) and 2) the City Council award a purchase order, in the amount of \$287,000.00, to PIPS Technology to provide and install the initial phase of the Carson community safety camera program.

## **II. RECOMMENDATION**

TAKE the following actions:

1. WAIVE the formal bidding procedures as defined by the Carson Municipal Code (CMC) Section 2607, as allowed by CMC Section 2604(a).
2. AWARD a purchase order, in the amount of \$287,000.00, to PIPS Technology to provide and install the initial phase of the Carson community safety camera program.

## **III. ALTERNATIVES**

DO NOT award the purchase order to PIPS Technology to provide and install the initial phase of the Carson community safety camera program and return the available American Recovery and Reinvestment (ARRA) Grant funds.

## **IV. BACKGROUND**

The City of Carson applied for American Recovery and Reinvestment (ARRA) Grant funds with a proposal to initiate and implement a community safety camera program. Initial estimates to initiate a camera program were approximately

\$375,000.00. When the ARRA Grant was awarded, the City of Carson was allocated \$328,533.33 in grant funds. Terms of the grant also stipulated that one of the cities in Los Angeles County receiving grant funds would be designated the fiscal agent for the grant. The fiscal agent is responsible for the overall coordination, management and monitoring of the grant and, to cover the costs of grant management, entitled to ten percent of the grant award. This reduced the total award to the city by \$32,853.33, leaving \$295,680.00 in grant funds available for the proposed community safety camera program.

Sheriff's technology deputies began to develop an initial phase of the community safety camera program that would meet the intent of the grant proposal. One of the goals was to not exceed the available grant funds so that no general fund money would need to be allocated for the project. Another goal was to utilize the latest, proven technology to create a robust system and allow for future expandability, with the possibility of future networking with other Sheriff's Department locations. The only vendor that is familiar with the existing technology used by the Sheriff's Department, is able to provide the technology, and also able to provide the system at a cost that does not exceed the available grant funds, is PIPS Technology (PIPS).

The proposal from PIPS includes a wireless network infrastructure that extends along Avalon Boulevard from the Scottsdale community to the Home Depot Center. This will include a combination of fixed surveillance cameras and Automatic License Plate Recognition (ALPR) cameras. This will allow for the ability to record both visual and license plate information that will help identify people and vehicles that may be engaged in criminal activity. This camera program will greatly enhance the ability of the Sheriff's Department to investigate and solve crimes that occur in the city.

This system also will allow for future expansion, as funds become available. Expansion will be developed based on a combination of the amount of available funds and where the greatest need is for expansion. Staff is requesting that the City Council award a purchase order, in the amount of \$287,000.00, to PIPS Technology to provide and install the initial phase of the Carson community safety camera program.

**V. FISCAL IMPACT**

The award to PIPS Technology will have no fiscal impact to the General Fund. The funds for the camera safety program are ARRA Grant funds that were awarded specifically for this purpose. These funds are in the ARRA grant account 08-90-501-343-6005.

April 3, 2012

## VI. EXHIBITS

1. City Council action from the February 2, 2010, meeting. (pg. 4)
2. Proposal from PIPS Technology. (pgs. 5-12)
3. Carson Municipal Code Sections 2604 and 2607. (pgs. 13-14)

Prepared by: Brent Gesch, Public Safety Administrative Analyst

TO:Rev03-08-12

Reviewed by:

City Clerk	City Treasurer
Administrative Services <i>AG</i>	Development Services
Economic Development	Public Services

## Action taken by City Council

Date _____	Action _____

**ITEM NO. (13)      CONSIDERATION OF AN AGREEMENT WITH THE CITY OF LOS ANGELES TO ALLOCATE AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009 GRANT FUNDS TO THE CITY OF CARSON (PUBLIC SERVICES)**

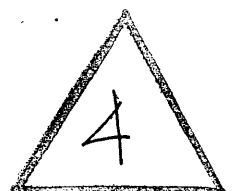
RECOMMENDATION for the City Council:

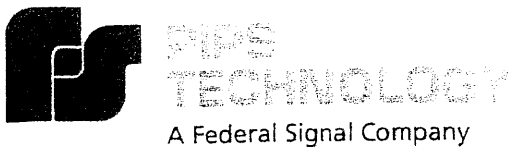
TAKE the following actions:

1.      APPROVE the agreement with the city of Los Angeles to act as the fiscal agent for the available Justice Assistance Grant funds and to allocate those funds to the city of Carson.
2.      AUTHORIZE the expenditure of these Justice Assistance Grant funds on the proposed community safety camera program.
3.      AUTHORIZE the Mayor to execute the agreement with the city of Los Angeles, following approval as to form by the City Attorney.

ACTION:      Item No. 13 was previously approved on the New Business Consent Calendar on motion of Dear, seconded by Santarina and unanimously carried by the following vote:

Ayes:              Mayor Dear, Mayor Pro Tem Davis-Holmes, Council Member Santarina, Council Member Gipson, and Council Member Ruiz-Raber  
Noes:              None  
Abstain:          None  
Absent:            None





January 3rd, 2011

Sergeant John Gaw  
LASD / Technical Services Division  
Communications and Fleet Management Bureau (CFMB)  
Advanced Surveillance and Protection Unit (ASAP)  
12440 East Imperial Highway, #130  
Norwalk, CA 90650  
(562) 345-4476 / Office  
(562) 774-7976 / Cell  
(323) 415-4876 / FAX

REF: Surveillance and ALPR Cameras for the Scottsdale Community in the City of  
Carson

*John,*

Thank you for the opportunity to provide pricing for surveillance cameras along with PIPS fixed ALPR cameras to cover the Scottsdale Community. We will be providing a wireless network infrastructure spanning from Scottsdale Community down to the Home Depot Center. We have attached a system overview diagram for your reference showing the wireless network and camera locations.

We will be using our partner Convergent Technologies for the installation and wireless integration. They have worked with us successfully on many projects including USC Police Services, San Bernardino County Sheriff, Claremont Police Department and Bob Hope Airport just to name a few.

#### Scope of Work

Our scope of work includes furnishing, installing, programming and commissioning the material listed in the attached bill of material (BOM) as outlined below and with regards to the data listed in the clarifications and exclusions section of this proposal.

The scope of work includes providing a new wireless network infrastructure spanning from the Scottsdale Community to The Home Depot Center. A mixture of 5GHz wireless and 4.9GHz wireless technologies will be utilized.

The scope of work also includes providing new video surveillance cameras and license plate recognition cameras at strategic locations throughout the City of Carson.

#### Wireless Network – 4.9GHz

The 4.9GHz portion of the wireless platform will consist of three communication paths;

- Carson Sheriff's Station and the Double Tree Hotel
- Scottsdale Community and the Double Tree Hotel



1108 E. Raymond Way  
Anaheim, Ca. 92801

Phone: (949) 280-1716

Fax: (949) 709-2017

E-mail: [info@pipstechnology.com](mailto:info@pipstechnology.com)

# EXHIBIT NO. 2



PIPS  
TECHNOLOGY

A Federal Signal Company

- The Home Depot Center and the Double Tree Hotel

The three wireless units installed at the Double Tree Hotel will be hard wired together to create a continuous network. The 4.9GHz wireless system will provide a back haul network path to connect the Scottsdale Community and The Home Depot Center to the Carson Sheriff's Station.

#### Wireless Network – 5GHz

Three separate 5GHz wireless network will be installed;

- The Home Depot Center
- Scottsdale Community
- Avalon Blvd, South of the Carson Sheriff's Station

The network at The Home Depot Center will support two (2) Arecont 180' Fixed Network Cameras. The 5GHz wireless network will be connected to the Carson Sheriff's Station via the microwave back haul.

The network at the Scottsdale Community will support one (1) Arecont 180' Fixed Network Camera and five PIPS License Plate Recognition Cameras. The 5GHz wireless network will be connected to the Carson Sheriff's Station via the microwave back haul.

The network along Avalon Blvd will support four (4) Arecont 180' Fixed Network Cameras. The 5GHz wireless network will communicate directly to the Carson Sheriff's Station.

The following equipment will be furnished and installed at the Carson Sheriff's Station to support the new security system;

- One (1) Network Video Recorder (NVR) with 3TB of video storage and DVTel video channel licenses
- One (1) Wireless Controller

The NVR and wireless controller will be installed in an existing equipment rack and connected to the existing network infrastructure.

With the exception of the equipment located at the Carson Sheriff's Station and the Double Tree Hotel, all equipment will be installed on city light poles. The existing light pole photocells will be replaced with new photocells equipped with 110VAC power connections.

It is assumed PIPS will have full cooperation from the Double Tree Hotel, including provision of 110VAC power and access to the existing tower frame work located on the roof.

#### Sheriff's Station Command Center

PIPS will furnish and install a new network video recorder (NVR) to support the new Arecont video surveillance cameras provided as part of this project. The NVR will be installed in an existing equipment rack at the Carson Sheriff's Station. The NVR will be an addition to the existing DVTel video management platform. With the exception of the DVTel video channel licenses listed in the attached bill of material, no software will be provided.

The new PIPS ALPR cameras will be connected to the existing PIPS BOSS server. No new PIPS software will be provided as part of this project.

PIPS will furnish and install one (1) new workstation with two (2) 47in HD displays. The workstation will be capable of displaying both the Arecont video surveillance cameras as well as the PIPS ALPR user interface.

#### Warranty

Our partner Convergent will provide a three year labor warranty and a one year material warranty. Provision of materials after the first year will be billed on a time and material basis.





### **Clarifications & Exclusions**

- All work proposed herein, including warranty labor, shall be performed during normal business hours Monday through Friday 8:00 am - 5:00 pm.
- This proposal excludes the following; Union Labor, Project Labor Agreements (PLA) and Liquidated Damages (LD).
- Permits, inspections and/or associated fees are not included.
- Customer to provide static IP addresses and network connections at required locations.
- Customer to provide a secured staging & storage area for project related materials.
- UL listing certification of security equipment, including enclosures, is specifically excluded.
- The new NVR will be connected to the existing DVTel platform. New video channel licenses will be provided to support the video surveillance cameras included in the BOM. Provision of additional software will constitute a change order.
- Coordination/approval from the City of Carson, The Home Depot Center, Scottsdale Community and the Double Tree Hotel will be the responsibility of the Los Angeles Sheriff's Department.
- The system designed proposed assumes direct line of sight between transceivers for the wireless and microwave units. Changes to the system design due to obstacles, interference from existing RF signals or other unexpected conditions may incur additional costs.
- Twenty-Five percent (25%) of the proposed sell price shall be payable to PIPS Technology for project mobilization. Mobilization shall be invoiced and due upon customer acceptance of this proposal. Fifty percent (50%) is due upon shipment of equipment. Fifteen percent (15%) is due upon completion of installation. Ten percent (10%) is due upon system acceptance.
- Anything in the Contract Documents notwithstanding, in no event shall either Contractor or Subcontractor be liable for special, indirect, incidental or consequential damages, including commercial loss, loss of use, or lost profits, even if either party has been advised of the possibility of such damages.
- PIPS Technology reserves the right to negotiate mutually acceptable contract terms and conditions with customer by making mutually agreeable changes to the formal contract included in the Bid Documents.

**You will find the pricing/ bill of material (BOM) for this project on a separate attachment along with the system diagram. The system total is \$287,000.**

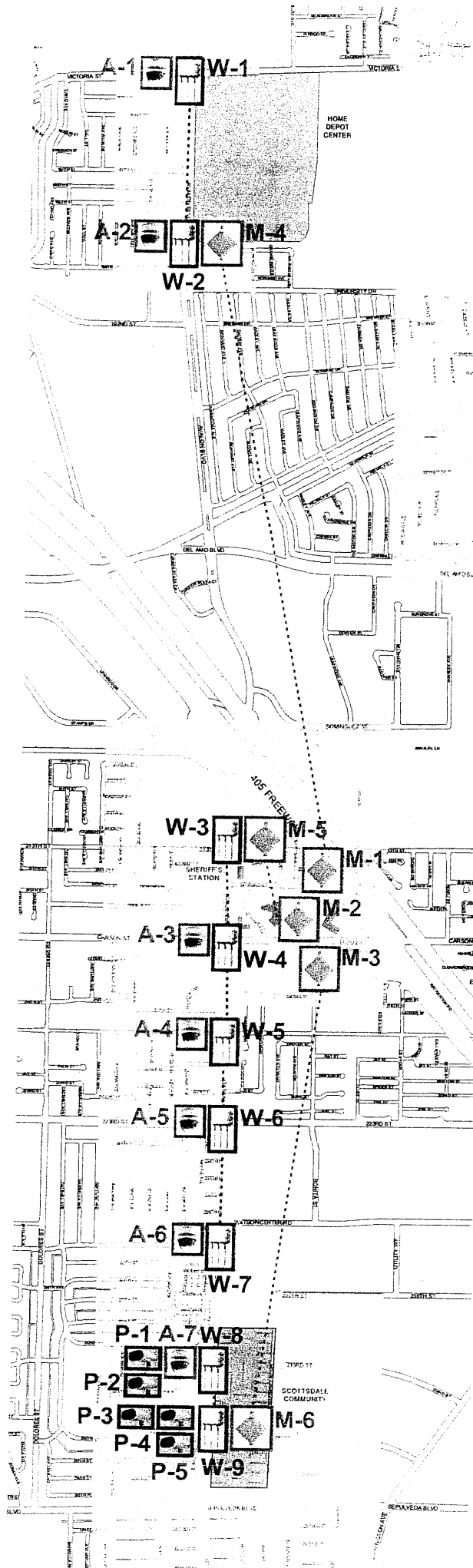
Once again, we thank you for the opportunity to provide a price quotation for this project. Please let me know if you require any further information. I can be reached directly at 949-280-1716 should you have any additional questions.

Best Regards,

Kris Robinson  
Senior Sales Manager  
PIPS Technology a Federal Signal Corporation



# Convergent TECHNOLOGIES



4.9GHz Wireless Transceiver



4.9GHz Wireless Communication



5GHz Wireless Transceiver



5GHz Wireless Communication



Arecont 180° Network Camera



PIPS ALPR Camera

M-1 Wireless atop Double Tree Hotel - Communicates with Home Depot Center  
M-2 Wireless atop Double Tree Hotel - Communicates with Sheriff's Station  
M-3 Wireless atop Double Tree Hotel - Communicates with Scottsdale  
M-4 Wireless at S Avalon Blvd & University Dr.  
M-5 Wireless at Sheriff's Station  
M-6 Wireless at S Avalon Blvd & Scottsdale Dr.

W-1 Wireless at S Avalon Blvd & Victoria St.  
W-2 Wireless at S Avalon Blvd & University Dr.  
W-3 Wireless at Sheriff's Station  
W-4 Wireless at S Avalon Blvd & Carson St.  
W-5 Wireless at S Avalon Blvd & 220th St.  
W-6 Wireless at S Avalon Blvd & 223rd St.  
W-7 Wireless at S Avalon Blvd & E Watson Center Rd.  
W-8 Wireless at S Avalon Blvd & Scottsdale Dr.  
W-9 Wireless at S Avalon Blvd & Scottsdale Dr.

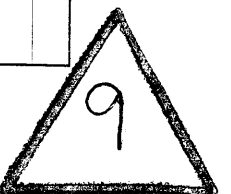
A-1 Arecont Camera at S Avalon Blvd & Victoria St.  
A-2 Arecont Camera at S Avalon Blvd & University Dr.  
A-3 Arecont Camera at S Avalon Blvd & Carson St.  
A-4 Arecont Camera at S Avalon Blvd & 220th St.  
A-5 Arecont Camera at S Avalon Blvd & 223rd St.  
A-6 Arecont Camera at S Avalon Blvd & E Watson Center Rd.  
A-7 Arecont Camera at S Avalon Blvd & Scottsdale Dr.

P-1 PIPS ALPR Camera at S Avalon Blvd & Scottsdale Dr.  
P-2 PIPS ALPR Camera at S Avalon Blvd & Scottsdale Dr.  
P-3 PIPS ALPR Camera at S Avalon Blvd & Scottsdale Dr.  
P-4 PIPS ALPR Camera at S Avalon Blvd & Scottsdale Dr.  
P-5 PIPS ALPR Camera at S Avalon Blvd & Scottsdale Dr.

Convergent Technologies  
Confidential  
Do Not Distribute







Qty	PartNum	Description		
<b>Double Tree Hotel Dual Radio Repeater Node: Consisting of Radio M1 Link to Home Depot Center, and Radio M3 Link to Scottsdale Location</b>				
1	7020	HotPort 7020, Outdoor MIMO-802.11n capable, Dual Radio, Tri Band Spectrum 2.4 GHz/4.9 GHz/5 GHz, 400 mW, Wireless Mesh Node, 5 meter North America AC power cable, six 2.4 GHz 5 dBi antennas, six 5 GHz 5 dBi antennas, 3 RJ45 weatherized ethernet connectors documentation CD and hardware installation guide. Only single radio enabled. Second radio enabling requires purchase of SW-7000-RADIO-1. 11n - MIMO functionality requires purchase of SW-7000-MIMO license	\$ 2,245.50	\$ 2,245.50
1	SW-7000-RADIO-1	Firetide 7000 Series Radio License (ELECTRONIC LICENSE) - Allows user to enable and use the second radio in the Firetide 7000 series product for a single node.	\$ 445.50	\$ 445.50
1	SW-7000-MIMO	Firetide 7000 Series MIMO License (ELECTRONIC LICENSE) - Allows user to enable and use the MIMO functionality (11n) on the Firetide 7000 series product for a single node.	\$ 1,255.50	\$ 1,255.50
2	CB-025-N-MIMO	MIMO ANT CABLE ASSEMBLY, 3IN1 2.5METER/LIGHTNING SUP/N-TYPE	\$ 535.50	\$ 1,071.00
2	AP20-050-MIMO-19	20 degrees patch antenna 3x3 MIMO, 4.9 - 6.1 capable	\$ 251.10	\$ 502.20
<b>Double Tree Hotel Single Radio Repeater Node: Consisting of Radio M3 link to Radio M5 at the Sheriff's Station.</b>				
1	7020	HotPort 7020, Outdoor MIMO-802.11n capable, Dual Radio, Tri Band Spectrum 2.4 GHz/4.9 GHz/5 GHz, 400 mW, Wireless Mesh Node, 5 meter North America AC power cable, six 2.4 GHz 5 dBi antennas, six 5 GHz 5 dBi antennas, 3 RJ45 weatherized ethernet connectors documentation CD and hardware installation guide. Only single radio enabled. Second radio enabling requires purchase of SW-7000-RADIO-1. 11n - MIMO functionality requires purchase of SW-7000-MIMO license	\$ 2,245.50	\$ 2,245.50
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1	CB-025-N-MIMO	MIMO ANT CABLE ASSEMBLY, 3IN1 2.5METER/LIGHTNING SUP/N-TYPE	\$ 535.50	\$ 535.50
1	AP20-050-MIMO-19	20 degrees patch antenna 3x3 MIMO, 4.9 - 6.1 capable	\$ 251.10	\$ 251.10
<b>Home Depot Dual Radio Node: Consisting of Radio M4 link to the Doubletree Hotel Repeater, and Radio W-2 Link to W-1 Node.</b>				
1	7020	HotPort 7020, Outdoor MIMO-802.11n capable, Dual Radio, Tri Band Spectrum 2.4 GHz/4.9 GHz/5 GHz, 400 mW, Wireless Mesh Node, 5 meter North America AC power cable, six 2.4 GHz 5 dBi antennas, six 5 GHz 5 dBi antennas, 3 RJ45 weatherized ethernet connectors documentation CD and hardware installation guide. Only single radio enabled. Second radio enabling requires purchase of SW-7000-RADIO-1. 11n - MIMO functionality requires purchase of SW-7000-MIMO license	\$ 2,245.50	\$ 2,245.50
1	SW-7000-RADIO-1	Firetide 7000 Series Radio License (ELECTRONIC LICENSE) - Allows user to enable and use the second radio in the Firetide 7000 series product for a single node.	\$ 445.50	\$ 445.50
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2	AP20-050-MIMO-19	20 degrees patch antenna 3x3 MIMO, 4.9 - 6.1 capable	\$ 251.10	\$ 502.20
<b>Sheriff's Station Dual Radio Node: Consisting of Radio M5 link to the Doubletree Hotel Repeater, and Radio W-3 Link to W-4 Node.</b>				
1	7020	HotPort 7020, Outdoor MIMO-802.11n capable, Dual Radio, Tri Band Spectrum 2.4 GHz/4.9 GHz/5 GHz, 400 mW, Wireless Mesh Node, 5 meter North America AC power cable, six 2.4 GHz 5 dBi antennas, six 5 GHz 5 dBi antennas, 3 RJ45 weatherized ethernet connectors documentation CD and hardware installation guide. Only single radio enabled. Second radio enabling requires purchase of SW-7000-RADIO-1. 11n - MIMO functionality requires purchase of SW-7000-MIMO license	\$ 2,245.50	\$ 2,245.50
1	SW-7000-RADIO-1	Firetide 7000 Series Radio License (ELECTRONIC LICENSE) - Allows user to enable and use the second radio in the Firetide 7000 series product for a single node.	\$ 445.50	\$ 445.50

10

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2	AP20-050-MIMO-19	20 degrees patch antenna 3x3 MIMO, 4.9 - 6.1 capable	\$ 251.10	\$ 502.20
<b>Single Radio W-1 Node: Consisting of Radio W-1 link to Radio W-2 at the Home Depot.</b>				
1	7020	HotPort 7020, Outdoor MIMO-802.11n capable, Dual Radio, Tri Band Spectrum 2.4 GHz/4.9 GHz/5 GHz, 400 mW, Wireless Mesh Node. 5 meter North America AC power cable, six 2.4 GHz 5 dBi antennas, six 5 GHz 5 dBi antennas, 3 RJ45 weatherized ethernet connectors documentation CD and hardware installation guide. Only single radio enabled. Second radio enabling requires purchase of SW-7000-RADIO-1. 11n - MIMO functionality requires purchase of SW-7000-MIMO license	\$ 2,245.50	\$ 2,245.50
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2	AP20-050-MIMO-19	20 degrees patch antenna 3x3 MIMO, 4.9 - 6.1 capable	\$ 251.10	\$ 502.20
<b>Camera A-3 / Radio W-4 Dual Radio Node: Consisting of Radio W-4a link to Radio W-3, and Radio W-4b link to W-5.</b>				
1	7020	HotPort 7020, Outdoor MIMO-802.11n capable, Dual Radio, Tri Band Spectrum 2.4 GHz/4.9 GHz/5 GHz, 400 mW, Wireless Mesh Node. 5 meter North America AC power cable, six 2.4 GHz 5 dBi antennas, six 5 GHz 5 dBi antennas, 3 RJ45 weatherized ethernet connectors documentation CD and hardware installation guide. Only single radio enabled. Second radio enabling requires purchase of SW-7000-RADIO-1. 11n - MIMO functionality requires purchase of SW-7000-MIMO license	\$ 2,245.50	\$ 2,245.50
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2	CB-025-N-MIMO	MIMO ANT CABLE ASSEMBLY, 3IN1 2.5METER/LIGHTNING SUP/N-TYPE	\$ 535.50	\$ 1,071.00
2	AP20-050-MIMO-19	20 degrees patch antenna 3x3 MIMO, 4.9 - 6.1 capable	\$ 251.10	\$ 502.20
<b>Camera A-4 / Radio W-5 Dual Radio Node: Consisting of Radio W-5a link to Radio W-4, and Radio W-5b link to W-6.</b>				
1	7020	HotPort 7020, Outdoor MIMO-802.11n capable, Dual Radio, Tri Band Spectrum 2.4 GHz/4.9 GHz/5 GHz, 400 mW, Wireless Mesh Node. 5 meter North America AC power cable, six 2.4 GHz 5 dBi antennas, six 5 GHz 5 dBi antennas, 3 RJ45 weatherized ethernet connectors documentation CD and hardware installation guide. Only single radio enabled. Second radio enabling requires purchase of SW-7000-RADIO-1. 11n - MIMO functionality requires purchase of SW-7000-MIMO license	\$ 2,245.50	\$ 2,245.50
1	SW-7000-RADIO-1	Firetide 7000 Series Radio License (ELECTRONIC LICENSE) - Allows user to enable and use the second radio in the Firetide 7000 series product for a single node.	\$ 445.50	\$ 445.50
1	SW-7000-MIMO	Firetide 7000 Series MIMO License (ELECTRONIC LICENSE) - Allows user to enable and use the MIMO functionality (11n) on the Firetide 7000 series product for a single node.	\$ 1,255.50	\$ 1,255.50
2	CB-025-N-MIMO	MIMO ANT CABLE ASSEMBLY, 3IN1 2.5METER/LIGHTNING SUP/N-TYPE	\$ 535.50	\$ 1,071.00
2	AP20-050-MIMO-19	20 degrees patch antenna 3x3 MIMO, 4.9 - 6.1 capable	\$ 251.10	\$ 502.20
<b>Camera A-5 / Radio W-6 Dual Radio Node: Consisting of Radio W-6a link to Radio W-5, and Radio W-6b link to W-7.</b>				

1	7020	HotPort 7020, Outdoor MIMO-802.11n capable, Dual Radio, Tri Band Spectrum 2.4 GHz/4.9 GHz/5 GHz, 400 mW, Wireless Mesh Node, 5 meter North America AC power cable, six 2.4 GHz 5 dBi antennas, six 5 GHz 5 dBi antennas, 3 RJ45 weatherized ethernet connectors documentation CD and hardware installation guide. Only single radio enabled. Second radio enabling requires purchase of SW-7000-RADIO-1. 11n - MIMO functionality requires purchase of SW-7000-MIMO license	\$ 2,245.50	\$ 2,245.50
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2	AP20-050-MIMO-19	20 degrees patch antenna 3x3 MIMO, 4.9 - 6.1 capable	\$ 251.10	\$ 502.20
<b>Camera A-6 / Radio W-7 Single Radio Node: Consisting of Radio W-7 link to Radio W-6.</b>				
1	7020	HotPort 7020, Outdoor MIMO-802.11n capable, Dual Radio, Tri Band Spectrum 2.4 GHz/4.9 GHz/5 GHz, 400 mW, Wireless Mesh Node, 5 meter North America AC power cable, six 2.4 GHz 5 dBi antennas, six 5 GHz 5 dBi antennas, 3 RJ45 weatherized ethernet connectors documentation CD and hardware installation guide. Only single radio enabled. Second radio enabling requires purchase of SW-7000-RADIO-1. 11n - MIMO functionality requires purchase of SW-7000-MIMO license	\$ 2,245.50	\$ 2,245.50
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1	CB-025-N-MIMO	MIMO ANT CABLE ASSEMBLY, 3IN1 2.5METER/LIGHTNING SUP/N-TYPE	\$ 535.50	\$ 535.50
1	AP20-050-MIMO-19	20 degrees patch antenna 3x3 MIMO, 4.9 - 6.1 capable	\$ 251.10	\$ 251.10
<b>Scottsdale Location Dual Radio Node: Consisting of Radio M6 Link to Radio M3, and Radio W-9 Link to W-8 node location.</b>				
1	7020	HotPort 7020, Outdoor MIMO-802.11n capable, Dual Radio, Tri Band Spectrum 2.4 GHz/4.9 GHz/5 GHz, 400 mW, Wireless Mesh Node, 5 meter North America AC power cable, six 2.4 GHz 5 dBi antennas, six 5 GHz 5 dBi antennas, 3 RJ45 weatherized ethernet connectors documentation CD and hardware installation guide. Only single radio enabled. Second radio enabling requires purchase of SW-7000-RADIO-1. 11n - MIMO functionality requires purchase of SW-7000-MIMO license	\$ 2,245.50	\$ 2,245.50
1	SW-7000-RADIO-1	Firetide 7000 Series Radio License (ELECTRONIC LICENSE) - Allows user to enable and use the second radio in the Firetide 7000 series product for a single node.	\$ 445.50	\$ 445.50
1	SW-7000-MIMO	Firetide 7000 Series MIMO License (ELECTRONIC LICENSE) - Allows user to enable and use the MIMO functionality (11n) on the Firetide 7000 series product for a single node.	\$ 1,255.50	\$ 1,255.50
2	CB-025-N-MIMO	MIMO ANT CABLE ASSEMBLY, 3IN1 2.5METER/LIGHTNING SUP/N-TYPE	\$ 535.50	\$ 1,071.00
2	AP20-050-MIMO-19	20 degrees patch antenna 3x3 MIMO, 4.9 - 6.1 capable	\$ 251.10	\$ 502.20
<b>Camera's A-7, P-1 &amp; P-2 / Radio W-8 Single Radio Node: Consisting of Radio W-8 link to Radio W-9.</b>				
1	7020	HotPort 7020, Outdoor MIMO-802.11n capable, Dual Radio, Tri Band Spectrum 2.4 GHz/4.9 GHz/5 GHz, 400 mW, Wireless Mesh Node, 5 meter North America AC power cable, six 2.4 GHz 5 dBi antennas, six 5 GHz 5 dBi antennas, 3 RJ45 weatherized ethernet connectors documentation CD and hardware installation guide. Only single radio enabled. Second radio enabling requires purchase of SW-7000-RADIO-1. 11n - MIMO functionality requires purchase of SW-7000-MIMO license	\$ 2,245.50	\$ 2,245.50
1	SW-7000-MIMO	Firetide 7000 Series MIMO License (ELECTRONIC LICENSE) - Allows user to enable and use the MIMO functionality (11n) on the Firetide 7000 series product for a single node.	\$ 1,255.50	\$ 1,255.50
1	CB-025-N-MIMO	MIMO ANT CABLE ASSEMBLY, 3IN1 2.5METER/LIGHTNING SUP/N-TYPE	\$ 535.50	\$ 535.50
1	AP20-050-MIMO-19	20 degrees patch antenna 3x3 MIMO, 4.9 - 6.1 capable	\$ 251.10	\$ 251.10



**2604 Bidding.**

Unless CMC 2607 is applicable, the purchase of supplies and equipment shall be by open market procedures pursuant to CMC 2608. Bidding or proposals for services may be dispensed with only:

- (a) When the City Manager finds, with the concurrence of the City Council, that such supplies or equipment are unique because of their quality, durability, availability, or fitness for a particular use and are available only from one (1) source, or, if available from more than one (1) source, can be purchased from the manufacturer for a lower price; or
- (b) When an emergency, as determined by the City Manager, requires that the purchase be completed within a period of time which will not permit normal bidding or quotation procedures; or
- (c) When the amount of the purchase is less than \$1,000; or
- (d) The City Council finds that due to the nature of the supplies or equipment, bidding is not likely to result in the lowest price. (Ord. 42, § 1; Ord. 80-507, § 1; Ord. 87-775, § 1; Ord. 88-829, § 1; Ord. 98-1134, § 1)

**2607 Formal Bidding Procedure.**

Except as otherwise provided herein, purchases and contracts for supplies and equipment of an estimated value greater than \$25,000 shall be by sealed bid and written contract with the lowest responsible bidder.

- (a) Notice Inviting Bids. Notices inviting sealed bids shall include a general description of the articles to be purchased, shall state where bid blanks and specifications may be secured, and the time and place for opening bids.
  - (1) Published Notice. Notice inviting sealed bids shall be published at least ten (10) days before the date of opening of the bids. Notice shall be published at least once in a newspaper of general circulation, printed and published in the City, or if there is none, it shall be posted in at least three (3) public places in the City that have been designated by ordinance as the places for posting public notices.
  - (2) Bidders' List. The Purchasing Manager shall also solicit sealed bids from responsible prospective suppliers whose names are on the Bidders' List or who have requested their names to be added thereto.



(3) Bulletin Board. The Purchasing Manager shall also advertise pending purchases by a notice posted on a public bulletin board in the City Hall.

(b) Bidder's Security. When deemed necessary by the Purchasing Manager, bidder's security may be prescribed in the public notices inviting bids. Bidders shall be entitled to return of bid security; provided, that a successful bidder shall forfeit its bid security upon refusal or failure to execute the contract within ten (10) days after the notice of award of contract has been mailed, unless the City is responsible for the delay. The City Council may, on refusal or failure of the successful bidder to execute the contract, award it to the next lowest responsible bidder. If the City Council awards the contract to the next lowest bidder, the amount of the lowest bidder's security shall be applied by the City to the difference between the low bid and the second lowest bid, and the surplus, if any, shall be returned to the lowest bidder.

(c) Bid Opening Procedure. Sealed bids shall be submitted to the Purchasing Manager and shall be identified as bids on the envelope. Bids shall be opened in public at the time and place stated in the public notices. A tabulation of all bids received shall be open for public inspection during regular business hours for a period of not less than thirty (30) calendar days after the bid opening.

(d) Rejection of Bids. In its discretion, the City Council may reject any and all bids presented and re-advertise for bids.

(e) Award of Contracts. Contracts shall be awarded by the City Council to the lowest responsible bidder except as otherwise provided herein. In the event that the lowest responsible bid is \$25,000 or less, the contract may be awarded under CMC 2608 without the need for City Council action.

(f) Tie Bids. If two (2) or more bids received are the same total amount or unit price, quality and service being equal, and if the public interest will not permit the delay of re-advertising for bids, the City Council may accept the one (1) it chooses or accept the lowest bid made by negotiation with tie bidders at the time of the bid opening.

(g) Performance Bonds. The City Council shall have authority to require a performance bond before entering a contract in such amount as it shall find reasonably necessary to protect the best interests of the City. If the City Council requires a performance bond, the form and amount of the bond shall be described in the notice inviting bids. (Ord. 42, § 1; Ord. 80-507, § 1; Ord. 88-829, § 1; Ord. 98-1134, § 1; Ord. 00-1216, §§ 5, 6)

