

# Agenda Report

DATE: March 19, 2007

TO: CITY COUNCIL

THROUGH: ECONOMIC DEVELOPMENT & TECHNOLOGY COMMITTEE

FROM: CITY MANAGER

SUBJECT: AUTHORIZATION TO ENTER INTO A WIRELESS NETWORK AGREEMENT WITH EARTHLINK, INC.

## RECOMMENDATION

It is recommended that the City Council:

- 1) Authorize the City Manager to enter into a wireless network agreement with EarthLink, Inc., consistent with the terms outlined in Exhibit B, for deployment of a citywide wireless network, EarthLink's use of City street light and other poles in the public rights-of-way, and City use of EarthLink wireless services over seven years, with two possible seven-year renewal periods at EarthLink's option. The agreement will result in revenues to the City of \$311,284 during the initial seven year term. Competitive Bidding is not required pursuant to City Charter Section 1002(F) contracts for professional or unique services; and
- 2) Acknowledge that an Initial Environmental Study recommending a Mitigated Negative Declaration was adopted by the Environmental Administrator on December 18, 2006. The Initial Study was available for public review from November 28, 2006 to December 18, 2006. No public comment was received.

## EXECUTIVE SUMMARY

Staff requests authorization to enter into a wireless network agreement with EarthLink. In response to a City Request for Proposals, EarthLink proposes to build, operate and maintain a citywide wireless network in Pasadena at no cost to the City. The network will serve residents, businesses, visitors, and City departments, providing a broadband connection for approximately \$22 per month. EarthLink's network will be made up of small wireless antennas mounted on City streetlight, traffic signal, and utility poles, as well as several larger antennas mounted on the rooftops of some of the city's taller buildings. EarthLink will place its equipment and provide service wherever the City has

usable poles available. The company plans to begin installation of the network within 90 days, and to begin offering service later this year, as soon as a substantial portion of the network has been installed and tested. The proposed agreement has a seven year term, with two possible seven-year renewal periods at EarthLink's option. The agreement will result in revenues to the City of \$311,284 during the initial term from EarthLink's payment for attachments to City street light, traffic signal, and utility poles, as well as use of the City's El Mirador tower. The City will receive 650 general wireless service accounts to support City operations, including access to e-mail, business applications, and the Internet for staff working outside City offices, at no net cost.

## BACKGROUND

In an effort to provide wireless services citywide for residents, businesses, and City departments, the City issued a Request for Proposals (RFP) for development and operation of a citywide wireless network in December 2005. Five companies submitted proposals in February 2006. Following a rigorous review of the proposals by a cross-departmental evaluation team, staff identified EarthLink as the proposer offering the City the best overall value. In July 2006, the City Council authorized the City Manager to enter into exclusive negotiations with EarthLink. Since that time, staff has been in negotiations with EarthLink to structure a mutually acceptable agreement for EarthLink's development and operation of a citywide wireless network.

### *Key Elements of the Contract with EarthLink*

Under the proposed agreement, EarthLink will build, operate, and maintain a citywide wireless network in Pasadena at no cost to the City. Key elements of the proposed contract are summarized here and in the term sheet attached as Exhibit B.

The company plans to provide fee-based broadband wireless service to residents, businesses, and visitors. The company intends to charge approximately \$22 per month for a 1 Mbps connection to the Internet, which is similar in speed to a DSL connection. To encourage access to broadband service for all Pasadenans, EarthLink will offer a low-income discount program, free service in designated parks and public areas throughout the city, and other digital inclusion programs to encourage use of the wireless network. City departments will also benefit from the wireless service through accounts for City staff and at remote sites (described further below).

As required by the City, EarthLink will operate the network as an open access system, providing capacity to competing service providers on a wholesale basis. This will offer the opportunity for other companies to provide wireless services in Pasadena, without having to make capital investment in a separate wireless network. Several companies are already partnering with EarthLink to offer competitive services over EarthLink wireless networks, and intend to offer services here.

Staff was asked by the City Council to inquire about the City's ability to protect wireless subscribers from rate increases. Staff and EarthLink determined that one way to regulate rate increases is through competition. EarthLink has agreed that there will always be three competitors in the local wireless marketplace. If at some point during

the term of the contract there are fewer than three citywide wireless broadband providers offering service in Pasadena, EarthLink will contract with at least two other companies to provide competitive wireless services in Pasadena over EarthLink's network. If EarthLink is unable to do so within six months, the company will be prohibited from selling retail services to new customers, unless the City waives the prohibition. This will create a strong incentive for EarthLink to help ensure that the city has a competitive wireless marketplace. That competition will protect the community from monopolistic rate increases.

EarthLink plans to provide service wherever the City has mounting assets – street light, traffic signal, and utility poles – that the company can use to place equipment. Based on its initial survey, EarthLink has prepared a map of anticipated wireless coverage in Pasadena, attached as Exhibit C. EarthLink has identified a good inventory of mounting assets in most areas of the city, and anticipates very good coverage in these areas, shown in green on the map. However, several areas across the city have limited mounting assets. The Linda Vista and San Rafael areas of Pasadena in particular have few mounting assets and service may not be available except adjacent to main city streets. Landmark districts, which frequently have short, decorative street light poles, also have fewer suitable mounting assets. EarthLink's coverage footprint may also be limited in areas zoned Open Space, where placement of wireless equipment is prohibited. Finally, two areas in the southern portion of the city have limited mounting assets, and present challenges because they are not in clear view of EarthLink's planned rooftop tower sites (which provide links between the local network and the Internet). EarthLink is exploring the use of alternative technologies in these areas.

EarthLink has committed to a Technical Trial covering an area of at least two square miles to demonstrate that the technology and deployment approach will work in Pasadena. For its full deployment, EarthLink estimates that it will install approximately 650 to 750 small wireless antennas across the city, and roughly 250 other small pieces of equipment, located on the same poles as the antennas, to connect local wireless traffic to rooftop antenna sites. The equipment EarthLink plans to use, pictured in Exhibit D, is the most widely deployed WiFi hardware on the market, and is among the smallest equipment options. The wireless antennas will be mounted primarily on street light poles. EarthLink may mount equipment on City utility poles and traffic signal poles where street light poles are not available, and where permitted by the City. Under the proposed agreement, the City retains final authority over the review and approval of all mounting locations. EarthLink will also install three or four larger antennas on privately owned rooftops in Pasadena, and on the City's El Mirador tower facility. These rooftop antennas will establish the connection between the small antennas mounted on street light poles and the Internet.

EarthLink intends to deploy its Pasadena network as quickly as possible. The company will begin marketing and offering service as soon as a substantial portion of the network has been installed and tested. Assuming the contract is executed by April 15<sup>th</sup>, EarthLink plans to:

<b>Milestone</b>	<b>Projected Date</b>
Finalize design of the network	June 15, 2007
Begin applying for permits for the Technical Trial area	June 15, 2007
Install equipment in the Technical Trial area	July 15, 2007
Begin applying for permits for the citywide network	July 15, 2007
Begin installation of the citywide network	August 15, 2007
Complete installation of 50 percent of the network	October 15, 2007
Finalize installation of the network	February 15, 2008
Complete testing of the network	April 15, 2008

EarthLink estimates it will invest \$5.8 million in the Pasadena network over seven years. To keep the network industry-current, the company commits to upgrading its network over time, ensuring that the Pasadena community will benefit from advances in wireless technology. EarthLink will also implement industry-standard security mechanisms to protect system users.

The initial term of the proposed agreement is seven years. Provided that it is not in default of the agreement, EarthLink will have the option to renew the agreement for two additional seven-year terms. As described further in the fiscal impact section of this report, EarthLink will pay the City for use of City assets, including street light, traffic signal and utility poles, and the City's El Mirador tower facility.

Should EarthLink stop operating the wireless network or breach the major default provisions of the agreement, the company will be required to remove its equipment from City poles and other facilities. The contract also requires that EarthLink provide the City a \$35,000 letter of credit to reimburse the City for removal costs in the event EarthLink fails to take down the equipment itself. This amount is an estimate of the actual cost involved in taking down the equipment. The dollar amount of the letter of credit will be adjusted at the beginning of each renewal term to ensure it covers the City's estimated costs of removing the equipment.

#### *Service to City Departments*

Under the proposed agreement, EarthLink will make three types of wireless service available to City departments at discounted rates: general City wireless accounts; mobile vehicle connectivity service; and fixed location wireless service.

The City will purchase a minimum of 650 general City wireless accounts from EarthLink at a discounted rate of \$10 per month as part of the proposed contract. These accounts will support City operations, providing staff access to e-mail, business applications, and the Internet while working outside City offices.

The City also has the option to purchase wireless mobile vehicle connectivity service for use by City staff in City vehicles. This service places a wireless antenna directly in the vehicle, which provides a stronger and more consistent connection for staff in moving vehicles. The vehicle-based antenna will also help extend the wireless network connection for users in that vehicle when they are in areas of limited geographic coverage. EarthLink will discount the monthly charge for the service, which will range

from \$17.50 to \$35 per month per unit depending on the number of these mobile antennas the City uses. The company will also subsidize the City's purchase of the wireless antennas to be installed in the vehicles. EarthLink will make the first 50 units available at \$1,250, a 50 percent discount, and additional units at a cost of \$2,500 per unit.

In addition, EarthLink will furnish higher bandwidth T1-equivalent fixed location wireless accounts at the City's option to purchase for a monthly service charge of \$189, plus a one-time, non-recurring fee of \$499 for Customer Premises Equipment (CPE) and installation. The one-time, non-recurring fee will be waived by EarthLink in return for a 24-month service commitment by the City. These higher speed connections may be used to provide network connections for remote facilities and to connect traffic facilities to the Department of Transportation network.

### *Related Actions*

The proposed agreement between the City and EarthLink is self-contained and ready for execution pending Council's action on the recommendation. However, staff plans to bring forward to City Council two related actions to facilitate implementation of the contract over time. These are: addition of an unmetered power rate for small wireless facilities to the Light and Power Rate Ordinance; and modifications to the Zoning Code to allow placement of small wireless facilities in Open Space (OS) zones.

EarthLink's wireless network will use small radio antenna facilities mounted primarily on street light poles. The facilities require connection to a power source, usually plugging into the photocell on top of the street light itself. It would be impracticable to meter the power used by each antenna, which would add a power meter pedestal to each antenna location and would be cost prohibitive. The Light and Power Rate Ordinance does not currently include a rate for provision of unmetered power to this type of device. However, the Code provides, under Section 13.04.071, the ability for Pasadena Water and Power to provide power for up to 12 months to explore the impacts of new power consumption on the system and experiment with load management and conservation programs. Pasadena Water & Power plans to develop an interim rate based on the estimated power usage of the EarthLink antennas. Following evaluation of the actual power usage of the facilities and their cumulative impact on the power system, staff anticipates returning to the City Council with a recommendation to amend Title 13 to include a new rate category applicable to EarthLink's antennas and similar communications equipment.

EarthLink plans to install its wireless network in all areas of the City where there are useable street light, traffic signal and utility poles to which the company can attach its antennas. Under the City's current Zoning Code, placement of wireless facilities is prohibited in Open Space zones. EarthLink would like to be able to place its facilities in those zones to provide broader coverage, including free service in City parks and public spaces. Staff was asked to work with the Economic Development and Technology Committee in evaluating recommended changes to the Zoning Code that would allow placement of small wireless facilities in Open Space areas. Staff review of possible Zoning Code amendments will take place over the next six to nine months.

### *CEQA Review*

The City has conducted an Initial Environmental Study of the potential effects of EarthLink's proposed wireless network under the California Environmental Quality Act (CEQA). A Mitigated Negative Declaration was adopted by the Environmental Administrator on December 18, 2006. Mitigation Measures related to Transportation/Traffic were included to reduce those impacts to a less than significant level. These included submitting and receiving approval of a "Staging and Traffic Management Plan" for the implementing phase of the project and restricting the closure of traffic lanes during weekday a.m. and p.m. peak hours. The Initial Study was available for public review from November 28, 2006 to December 18, 2006. No public comment was received. A copy of the Mitigation Monitoring Reporting Program is attached as Exhibit E for reference.

### FISCAL IMPACT

EarthLink will pay for attachments to City street light, traffic signal, and utility poles, and the City's El Mirador tower. These costs are summarized in the following table. During the first seven year term of the contract, staff estimates that EarthLink will pay the City approximately \$311,284 (approximately \$44,500 per year) for these attachments. EarthLink has also agreed to pay the City an annual use fee, starting at \$78,000 during the first year of the contract and increasing annually by 3.5%. During the first seven year term of the contract, EarthLink will pay the City use fees totaling \$606,794.

In addition, the contract provides EarthLink the option of leasing capacity in the City's fiber optic network. Should EarthLink decide to do so, it will pay the City for that use. The fiber lease fees would be based on the amount of fiber EarthLink leases. Staff estimates that those fees could range from \$45,000 to \$70,000 annually.

EarthLink payments for attachments to street light, traffic signal, and utility poles will be recognized as General Fund revenue in the FY2008 Recommended Operating Budget. In accordance with the guidelines put in place with establishment of the Telecommunications Fund, payments related to EarthLink's use of the El Mirador tower and the City's fiber optic network, if any, will be recognized as revenue to the Telecommunications Fund.

Should EarthLink elect to renew the contract, these attachment, fiber, and use fees would continue through the contract renewal period.

The City will also incur costs for service under the proposed agreement. As noted above, EarthLink will offer the City several types of wireless service, including general wireless accounts, fixed wireless service, and vehicle-based service. Under the contract, the City is obligated to purchase the 650 general City accounts, at the same cost as the use fee EarthLink will pay the City. As such, the City will receive these services at no net cost.

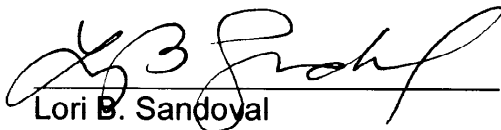
**Estimated Net Fiscal Impact of EarthLink Contract**

<b>Payments to City</b>	<b>Estimated 7 Year Value</b>
Pole attachment charges	\$143,284
El Mirador tower use charge	\$168,000
Use Fees	\$606,794
<b>Total Est. Payments to City</b>	<b>\$918,078</b>
City Payments for General Accounts	<\$606,794>
<b>Estimated Net Fiscal Impact</b>	<b>\$311,284</b>

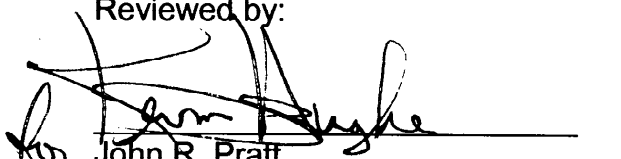
Respectfully submitted,

  
CYNTHIA J. KURTZ  
City Manager

Prepared by:

  
Lori B. Sandoval  
IT Planning & Project Manager

Reviewed by:

  
John R. Pratt  
Chief Information Technology Officer

Approved by:

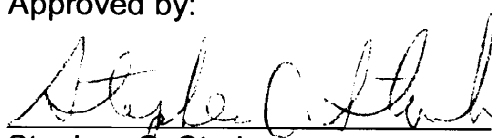
  
Stephen C. Stark  
Director of Finance

EXHIBIT A

TAXPAYER PROTECTION FORM



**Disclosure Pursuant to the  
City of Pasadena Taxpayer Protection Amendment of 2000  
Pasadena City Charter, Article XVII**

Contractor/Organization hereby discloses its trustees, directors, partners, officers, and those with more than a 10% equity, participation, or revenue interest in Contractor/Organization, as follows:  
*(If printing, please print legibly. Use additional sheets as necessary.)*

**1. Contractor/Organization Name:**  
EarthLink, Inc.

**2. Name(s) of trustees, directors, partners, officers of Contractor/Organization:**

<b>Directors:</b>
Charles G. Betty
Sky D. Dayton
S. Marce Fuller
William H. Harris, Jr.
Terrell B. Jones
Robert M. Kavner
Linwood A. Lacy, Jr.
Thomas E. Wheeler
<b>Officers:</b>
Linda W. Beck
Donald B. Berryman
Samuel R. DeSimone, Jr.
Kevin M. Dotts
Craig I. Forman
William S. Heys
Michael C. Lunsford
Christopher E. Putala
Kenneth J. Uhlig

**3. Names of those with more than a 10% equity, participation or revenue interest in Contractor/Organization:**

Barclay Global Investors, N.A.

Prepared by:   
Samuel R. DeSimone, Jr.

Title: Executive Vice President, General Counsel and Secretary

Date: August 30, 2006

For office use only:  
Contract/Transaction No. \_\_\_\_\_

If not a contract, type of transaction: \_\_\_\_\_

EXHIBIT B

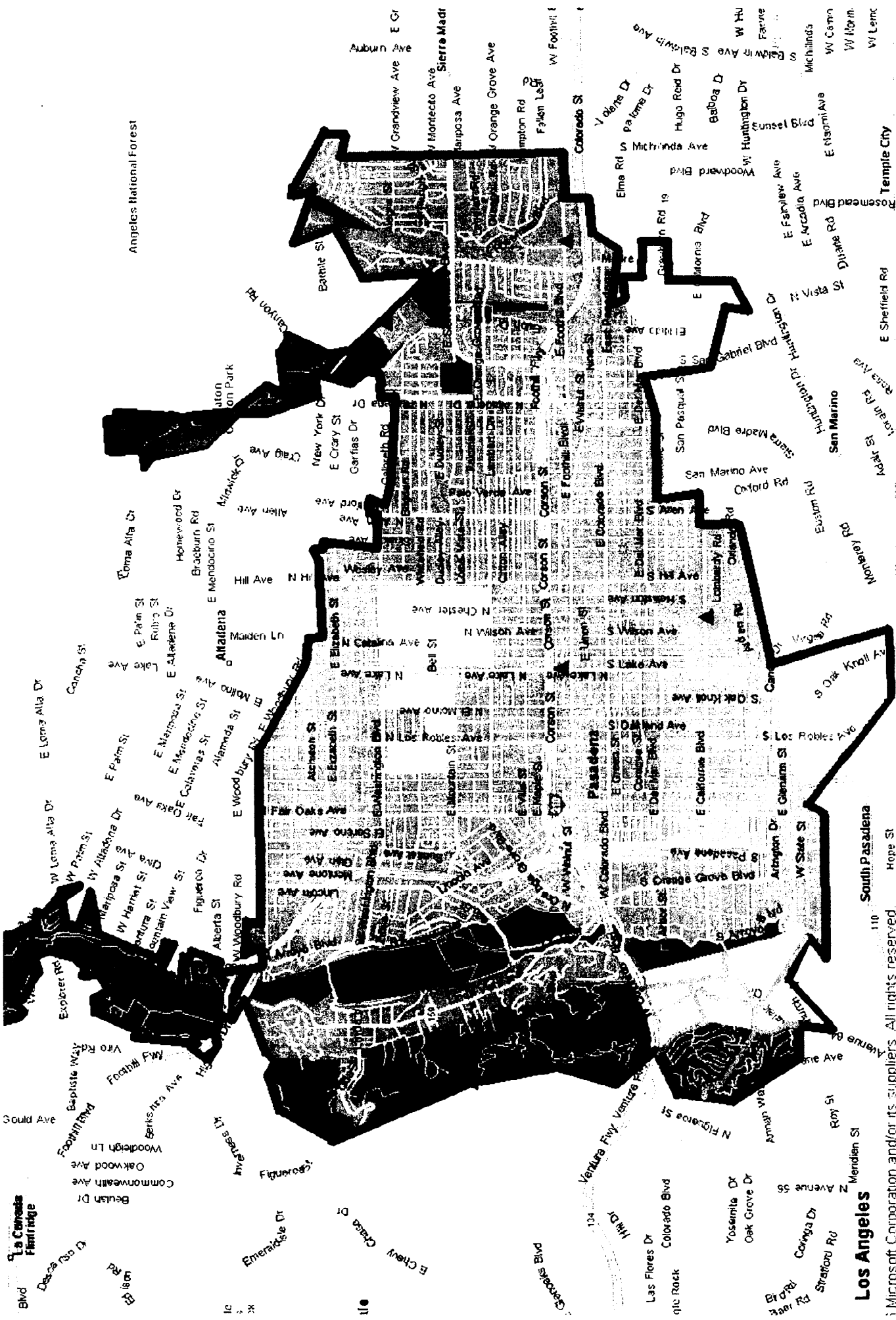
EARTHLINK CONTRACT TERMS





1.	Term	<ul style="list-style-type: none"> <li>• 7 years with two 7-year renewals, at EarthLink's option provided the company is not in major default of the agreement</li> </ul>
2.	EarthLink Payments to City	<ul style="list-style-type: none"> <li>• Approx. \$44,500 per year for rent of space on City street light, traffic signal, and utility poles and on City's microwave tower (\$311,284 over 7 year term of the contract)</li> <li>• Use fee averaging \$86,685 per year (\$606,794 over 7 year term of the contract)</li> <li>• Fees increase 3.5% annually</li> <li>• EarthLink may choose to use capacity in the City's fiber optic ring, resulting in additional revenue of \$45,000 to \$70,000 annually</li> </ul>
3.	Service Rates	<ul style="list-style-type: none"> <li>• Public rates will be approximately \$21.95 per month for a 1 Mbps broadband connection</li> <li>• Service will also be available on an hourly, daily, and weekly basis</li> </ul>
4.	Low-income discount	<ul style="list-style-type: none"> <li>• EarthLink will offer a \$12.95 per month rate for up to 500 low income customers</li> </ul>
5.	Free Service	<ul style="list-style-type: none"> <li>• EarthLink will offer free service in city parks and public spaces, covering up to 5% of the city</li> </ul>
6.	Competitive Environment	<ul style="list-style-type: none"> <li>• EarthLink will make capacity on the network available to other service providers at competitive rates</li> <li>• EarthLink will always have a minimum of two competitors in the wireless marketplace. If there are three or fewer wireless providers serving Pasadena, EarthLink will contract with two other companies to provide wireless services over the EarthLink network.</li> </ul>
7.	Coverage	<ul style="list-style-type: none"> <li>• Citywide where City mounting assets (street light, traffic signal and utility poles) exist.</li> <li>• Expect outdoor users in the coverage area will get a connection 95% of the time; indoor users in the coverage area with customer equipment will get a connection 90% of the time</li> </ul>
8.	Network Funding	<ul style="list-style-type: none"> <li>• EarthLink will fund, building, operate, maintain</li> </ul>

9.	Technical Trial	<p>and upgrade the wireless network</p> <ul style="list-style-type: none"> <li>• Technical test of the technology prior to citywide build-out covering at least two square miles</li> </ul>																
10.	Schedule	<table border="1" data-bbox="708 338 1401 852"> <tr> <td>Finalize network design</td> <td>June 15, 2007</td> </tr> <tr> <td>Apply for Technical Trial area permits</td> <td>June 15, 2007</td> </tr> <tr> <td>Install the Technical Trial area equipment</td> <td>July 15, 2007</td> </tr> <tr> <td>Begin applying for citywide network permits</td> <td>July 15, 2007</td> </tr> <tr> <td>Begin citywide network installation</td> <td>August 15, 2007</td> </tr> <tr> <td>Complete installation of 50 percent of the network</td> <td>October 15, 2007</td> </tr> <tr> <td>Finalize citywide network installation</td> <td>February 15, 2008</td> </tr> <tr> <td>Complete network testing</td> <td>April 15, 2008</td> </tr> </table>	Finalize network design	June 15, 2007	Apply for Technical Trial area permits	June 15, 2007	Install the Technical Trial area equipment	July 15, 2007	Begin applying for citywide network permits	July 15, 2007	Begin citywide network installation	August 15, 2007	Complete installation of 50 percent of the network	October 15, 2007	Finalize citywide network installation	February 15, 2008	Complete network testing	April 15, 2008
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11.	Equipment removal	<ul style="list-style-type: none"> <li>• EarthLink is required to remove its equipment when the contract terminates</li> <li>• EarthLink will provide a \$35,000 letter of credit that the City can draw on if EarthLink fails to remove its equipment</li> </ul>																
12.	Wireless Service for Departments	<ul style="list-style-type: none"> <li>• City will purchase service for 650 users at a cost equal to the use fee (resulting in no net cost to the City)</li> <li>• Higher speed fixed wireless service will be available to the City for \$189 per month, with \$499 installation cost waived with 2 year commitment</li> <li>• Vehicle-based service -- offering more reliable connections and mobility -- will be available to the City for \$17.50 to \$35 per month. Vehicle equipment will cost \$1,250 to \$2,500 per unit (depending on volume).</li> </ul>																

EXHIBIT C

WIRELESS NETWORK COVERAGE MAP



-  Likely to be serviceable based on mounting assets/poles availability and AP propagation
-  May or may not be serviceable due to potential lack of mounting assets, heavy tree foliage or limited line of site to tower
-  Limited to no coverage due to lack of mounting assets, heavy tree foliage or no line of site to tower
-  Open Zones may be serviceable. Coverage will be limited based on zoning restrictions, availability of mounting assets, heavy tree foliage or limited line of site to tower

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# Pasadena, CA

## Preliminary Coverage Map

1/30/07 V3

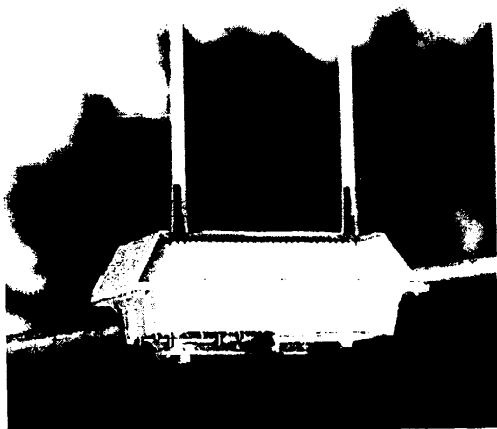


EarthLink is a registered trademark of EarthLink, Inc.

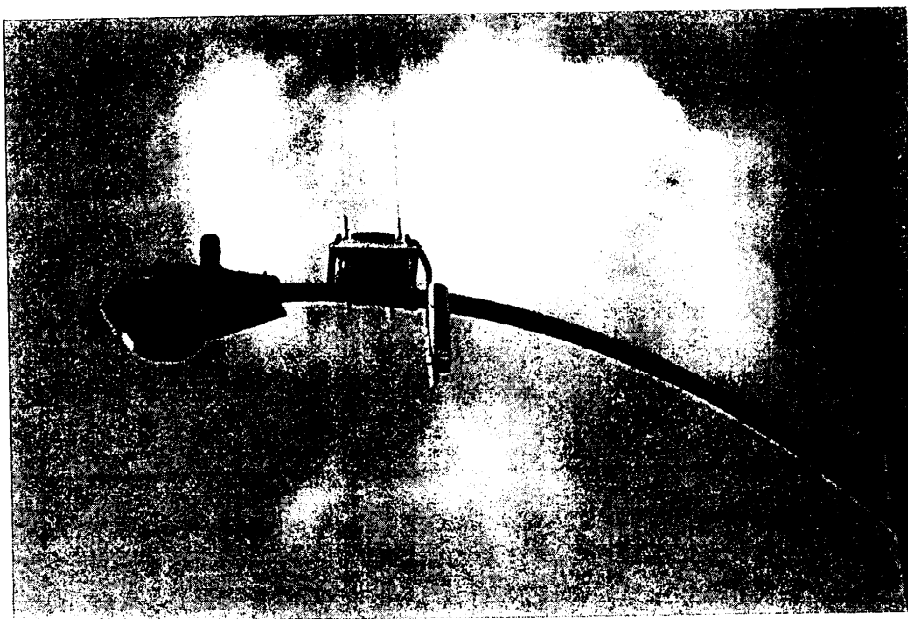
EXHIBIT D

PHOTOS OF EARTHLINK WIFI EQUIPMENT

Tropos 5210 Outdoor MetroMesh Router



Tropos 5210 Wi-Fi Node with Attached Motorola Canopy Subscriber Module



Tropos 5210 Wi-Fi Node with Attached Alvarion VL - Field Installation Example

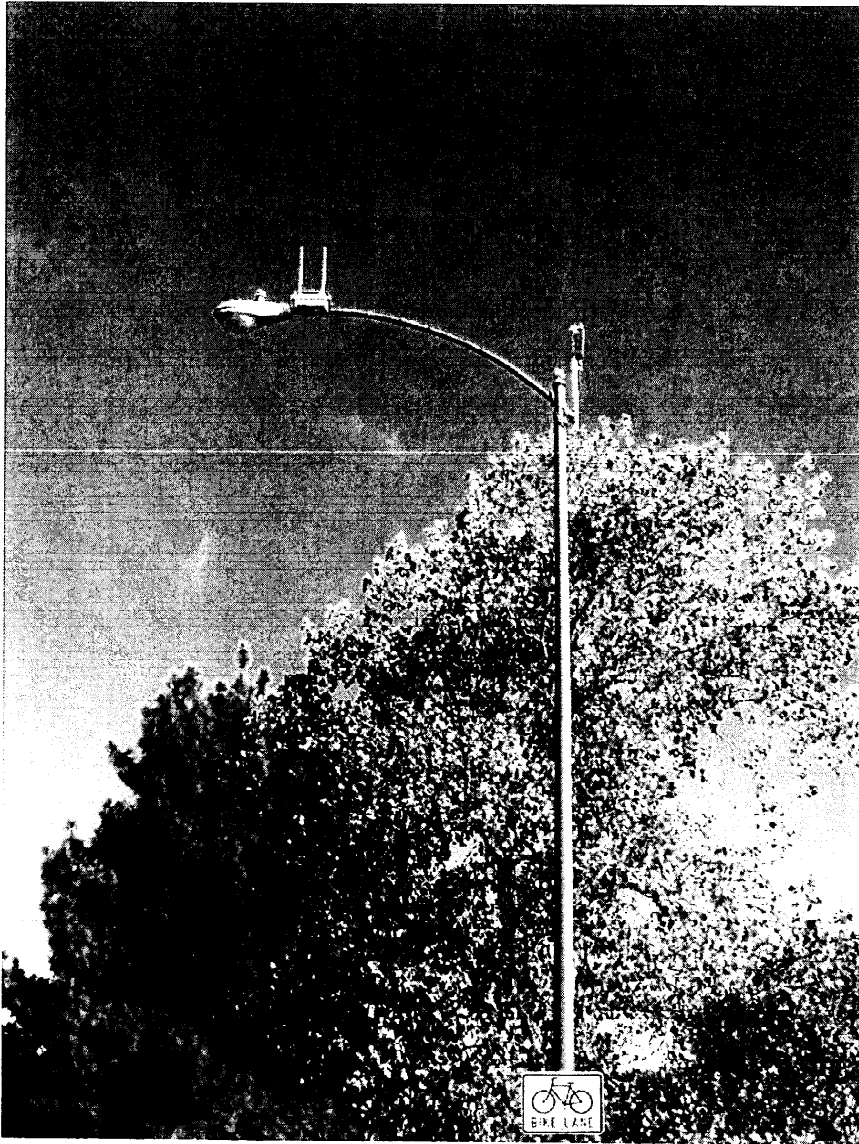


EXHIBIT E

CEQA MITIGATION MONITORING REPORT PROGRAM



## **MITIGATION MONITORING AND REPORTING PROGRAM CITYWIDE “WI-FI EXPERIENCE” PROJECT**

This Mitigation Monitoring and Reporting Program (MMRP) for the Citywide “Wi-Fi Experience” project been prepared pursuant to the California Environmental Quality Act (CEQA – Public Resources Code, Section 21000 *et seq.*), the CEQA Guidelines (Cal. Code Regs., Title 14, Chapter 3, Sections 15074 and 15097) and the City of Pasadena CEQA Guidelines. The mitigation measures included herein are considered conditions of approval for the project. A master copy of this MMRP shall be kept in the office of the Zoning Administrator and shall be available for viewing upon request. A copy also will be available at the office of the Condition/Mitigation Monitoring Coordinator.

In 2005, the City of Pasadena sought an application from qualified internet service providers to blanket as much of the City as possible with wireless internet service. Earthlink was the most qualified applicant, and an agreement for development, operation, and maintenance of the Citywide Wi-Fi Mesh Network has been proposed between the City of Pasadena and Earthlink, a private internet service provider. This initial study reviews the potential environmental impacts the project may have on the City of Pasadena.

EarthLink would install up to 1,100 facilities throughout the City on both public and private lands for a wireless network to be accessible Citywide. Each individual facility is small in size and could be classified exempt from the requirements of the California Environmental Quality Act. However, the potential cumulative effect of installation of up to 1,100 facilities disqualifies use of an exemption under CEQA, and has triggered the requirement to complete an Initial Study.

### Proposed facilities on public lands:

- Co-locating up to 1,100 “antenna nodes” to be placed on existing public street light standards and utility poles. Up to 30 of the nodes would be located in public parks. These nodes would measure thirteen inches long by eight inches wide by five inches high and would be mounted on the cobra-head portion of the light standard and would be 25 to 35 feet (we’re confirming this height w/ planning right now) above the street grade.
- Co-locating up to 350 “secondary equipment pieces” to be placed on one-third of the street light standards and utility poles that have antenna nodes installed on them. These pieces include a twelve inch square radio antenna and a two foot high pole antennas extension. These pieces would be attached perpendicular to the main antenna node or mounted parallel to the light standard pole or utility pole; and
- Co-locating various antennas on the 80 foot high El Mirador Tower. Equipment will also be placed within existing buildings and enclosures. The existing tower was approved through the Conditional Use Permit process in 2000. The tower is located on City owned property, and was constructed by a private company under contract with the City. The City performs all maintenance of the facility.

### Proposed facilities on private lands:

- Co-locating up to 18 foot high pole antennas and 2-foot diameter dishes on the roof of up to five multi-story buildings in the City. Equipment will also be placed within existing roof and ground mounted enclosures. A total of nine potential building sites have been identified. All of the potential buildings are privately owned and maintained. They include: 1) 3452 E. Foothill Boulevard; 2) 300 N. Lake Avenue; 3) 301 N. Lake Avenue (Lake Corson Building); 4) 1200 E. California (Millikin Library, Caltech); 5) 2947 Bradley Street; 6) 251 S. Lake



**MITIGATION MONITORING AND REPORTING PROGRAM MATRIX  
CITYWIDE “WI-FI EXPERIENCE” PROJECT**

Mitigation Measure	Mitigation Monitoring Timing	Responsible Monitoring Entity	Mitigation Measure Complete?	Effectiveness
<b>Impact 1 – Transportation/Traffic</b>				
<p><u>MITIGATION MEASURE 18.1.</u> No traffic lanes shall be closed between the hours of 7:00 a.m. to 9:00 a.m. and between the hours of 4:00 p.m. and 6:00 p.m. Monday through Friday as shown on the City’s Department of Transportation “No Traffic Lane Closure Map” as amended in April 2004.</p>	<p>During installation phase of antennas</p>	<p>City Code Enforcement Division and City Department of Transportation</p>		
<p><u>MITIGATION MEASURE 18.2.</u> The project applicant shall submit a “Staging and Traffic Management Plan” for the implementing phase of the project to the Department of Public Works for review and approval. This plan shall include the following:</p> <ul style="list-style-type: none"> <li>• A detailed map identifying the location of each antenna node and a timeline of when it would be installed.</li> <li>• Identify all impacts on the public right-of-way including all street occupations, lane closures, detours, staging areas and routes of vehicles.</li> <li>• As part of the plan, the project applicant shall obtain an occupancy permit from the Department of Public Works for the occupation of any traffic lane, parking lane, parkway or any other public right-of-way.</li> <li>• As part of the plan, all lane closures shall be done in accordance with the Manual of Uniform Traffic Control Devices (MUTCD) of the California Supplement.</li> <li>• As part of the plan, if the public right-of-way occupation requires a diagram that is not a part of the MUTCD or California Supplement, a separate traffic control plan must be submitted as part of the plan submittal.</li> </ul>	<p>Prior to issuance of permits to begin installation of antennas</p>	<p>City Department of Transportation</p>		