# SMALL CELL DEPLOYMENT

### STREET LIGHTS & JOINT UTILITY POLES

Planning & Economic Development Department July 21, 2020

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# SMALL CELL DEPLOYMENT

### **Background**

- Past Council Discussions
- Macro vs. Small Cell

### **Installations**

- Current Deployment
- Permitting Status Map

### Joint Pole Installations

- Permitting Process
- What can the City require?

### Fifth Generation Network (5G)

Status

### **Solutions**

- Code Amendments
- Increasing Local Control





# PAST COUNCIL ACTIONS

### Council Policy 300-04

- Adopted in July of 2000
- Generally tailored for large macro cell sites

### Amendment to Policy 300-04 - February 2017

- Small cell deployments on city owned infrastructure in right-of-way
  - Master License agreement
  - Site license agreement for each individual location
  - Annual license fee
  - Execution authority to City Manager or designee



# PAST COUNCIL ACTIONS

# Council Study Sessions

March 6, 2018

June 5, 2018

December 10, 2019





# **Small Cells**

**Summary** 

### **Pole Types**

 City owned streetlights and PG&E owned wooded poles

### **Approval Process**

Differs based on pole type and code applicability

### **Legal Framework**

Federal and State regulations

### **Deployment Status**

Locations of permitted wooden pole sites

### **Testing Process**

 Radio Frequency (RF) Analysis







# **Small Cells**

### **Community Concerns**

### **Residential Area Concerns**

- Health risks RF exposure
- Aesthetics
  - Loss of property value
  - Scenic impacts
- Saturation
- Lack of notification
- Environmental impact back up batteries



# Solutions

#### **Code Amendments**

### **Code Amendments and Alignment**

- Maintain consistency across Chapters 13 and 20 of the City Code and the Council Policy 300-04
- Expand design guidelines and standards to address small cells on both City owned and joint poles
- Align and improve noticing and public participation
- Streamline and improve review process for both macro and small cells

### **Expand Placement Options**

- Allow limited deployments on City street lights in non-residential areas
  - 6 locations for each provider





# Deployment Update City Owned Poles

- Proposed license agreements are under legal review
- 5 AT&T encroachment permits submitted for City pole sites
- City staff working with service providers on design elements
- Modifying locations to increase residential buffer
  - Verizon location on Mendocino Ave may shift to Farmers Lane south of Highway 12





# Deployment Update Joint Utility Poles

- 7 new AT&T sites
- Residential and commercial areas
- Applicant has provided notification to the surrounding residents
- City staff has received resident feedback on 5 of the 7 proposed sites
  - Community concerns were predominately associated with RF exposure



# Deployment Update AT&T Joint Utility Poles





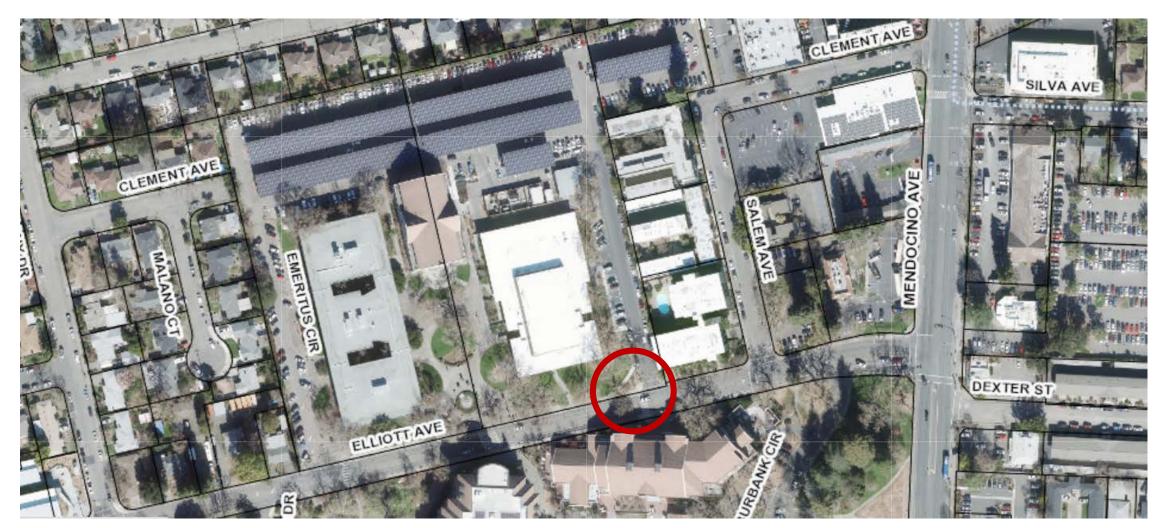
# Deployment Update AT&T Joint Utility Poles





# Deployment Update

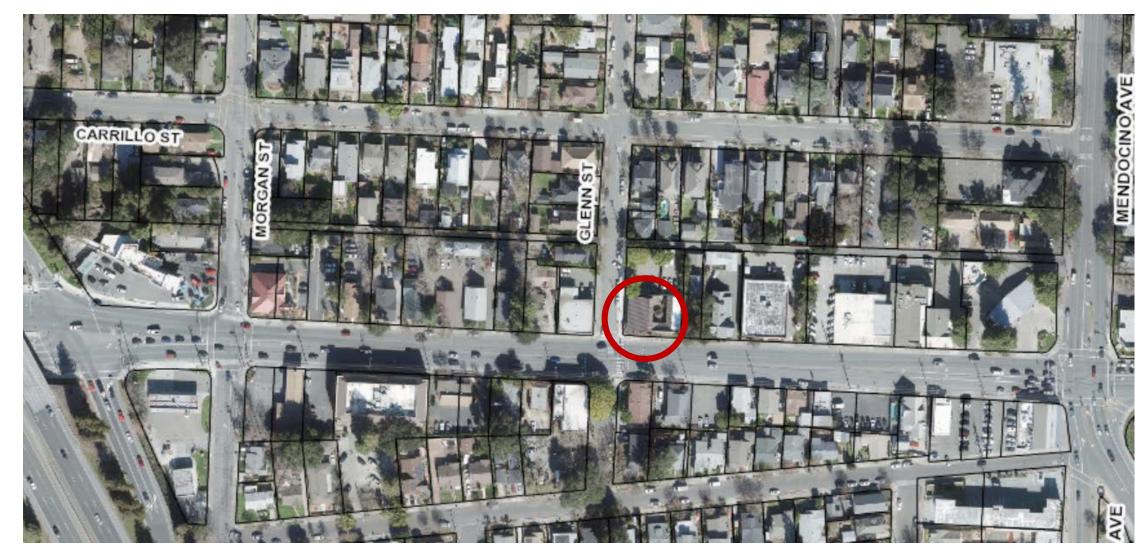
**AT&T Joint Utility Poles** 





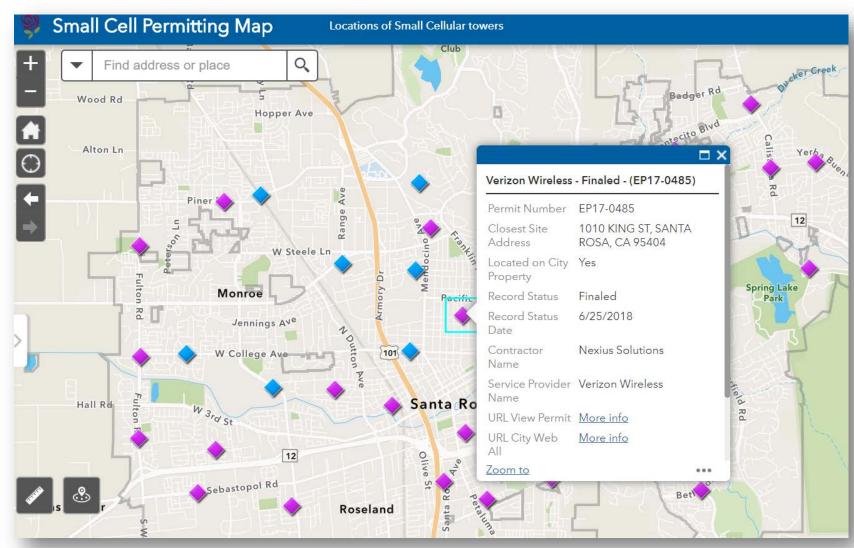
# Deployment Update

AT&T Joint Utility Poles





# srcity.org/smallcells





## Radio Frequency Exposure

Under Federal law (1996 Telecommunications Act), the City is prohibited from denying a permit to construct a wireless facility based on health concerns over radio frequency emissions provided that the emissions from the facility comply with Federal Communications Commission requirements.



### **Response to Resident Inquiries**

- Describe Federal requirements and City's authority level
- Provide resources associated with the development and application of RF standards
- Provide RF reports
- Connect resident with the service provider



# Joint Utility Pole Review Process

#### **PG&E Review**

- Agency determines pole eligibility based on code requirements
- Code requirements ensure that the installation does not affect ability to maintain power infrastructure
- Requirements significantly reduce number of available poles

### City Review – Encroachment Permit

- Ministerial application
- Reviewed against objective standards Chapter 13 of the City Code
- Application cannot be denied if the proposal meets published standards



# **Joint Utility Pole**

**Encroachment Permit Review Process** 

# What can be required under the current codes?

-I tems identified in Chapter 13 of the City Code

### Submittal requirements – section 13-04.060

- "...complete and descriptive information including plats, plans, specifications and analyses the City Engineer may require describing the work and it's effect on the right-of-way, including the mode of operation, maintenance and use;"
- The written order or consent to work thereunder, where required by law, issued by the California Public Utilities Commission or any other public district, agency or body having jurisdiction.
  - California Public Utilities Commission Decision 16-01-046



## Can codes be amended to add additional requirements?

-Yes, if the requirements are consistent with State and Federal laws

- State and local governments cannot effectively prohibit wireless services
- Local control on design and development standards
  - No prohibition on wireless communications services
  - Must be reasonable and treat providers equally
  - No more burdensome then those imposed on other infrastructure
  - Objective
  - Published prior to application submittal
  - Denials cannot be based on RF concerns



# What can be added or changed with a code amendment?

- -Design and development standards for all wireless facility types.
  - Distance buffers between wireless facilities, residential structures, schools
  - Screening
  - Equipment size and placement
  - Reducing right-of-way impacts undergrounding ground mounted equipment
  - Allowing or restricting new utility poles
  - Siting requirements that are too restrictive can constitute a ban
    - Siting requirements may involve exemptions if provider can prove that placement in restricted zones is needed to address gap in coverage



# What can be added or changed with a code amendment?

-Application requirements and review process.

- Define required permit types
- Public review process and noticing
- Define appeal process

- Modify submittal requirements
  - Master deployment plans
  - Alternate site analysis
  - Proof of coverage gaps



# How are new or existing applications treated during the code amendment process?

-Current published codes apply.

- Applications must be reviewed against codes published prior to date of application submittal
- FCC order places review of applications under shot clocks
- Local agency cannot create moratoria (delay review or refuse to accept applications)



# **5G Network Upgrade**



- All current installations are supporting 4G networks
- No timelines associated with 5G upgrades
- Infrastructure upgrades may be needed for 4G build out
  - Fiber expansion
- Existing small cell sites will require equipment modifications or software upgrades to support 5G
  - Upgrade on existing sites occurs with little to no local control
- New sites required for deployment of next generation networks
- 5G deployments will be required to meet FCC requirements associated with RF exposure



# National Environmental Policy Act (NEPA)

- Small cells are subject to NEPA
- Most locations fall with a categorical exclusion and deemed to have minimal or no impact on the environment
- The City has no obligation under Federal law to ensure compliance with NEPA as part of the encroachment permit review
- City staff are working with the cellular providers to address public concerns regarding review process







#### **Code Amendment**

- Align all codes and polices associated with telecommunications facilities
- Revise submittal requirements
- Create uniform notification and public participation processes
- Develop design standards for small cells and modify macro site standards
- Codify RF testing procedures City control

#### **Amendment Process**

- 9 to 12 month timeline
- Timeline varies based on level of environmental review and community engagement
- Code development process may benefit from the use of professional services
- Priority setting



# Questions?

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