



Sunnyvale

Wireless Telecommunication Facilities in the Public Right of Way - Design Criteria Update

Planning Commission, June 24, 2019

- Amended Telecom Act of 1996
 - ◆ Limited review authority
- Carriers have the right to use ROW
- City adopted Design Criteria (2013)
- FCC Order (Small Cell #18-133) (2019)
- Agreement with AT&T for City owned poles (2019)

Local and State governments,

- Not regulate facilities based on RF emissions;
- Not unreasonably discriminate among providers;
- Review applications within specific timeframes;
- Regulate facilities based on objective aesthetic criteria;
and
- Not prohibit/have the effect of prohibiting wireless services.

Examples

Telecom Facilities in ROW - Design Criteria Update



Pole Mounted - 1



Pole Mounted - 2



Ground Mounted

Goals of Updates:

- Minimize aesthetic impacts;
- Objective and enforceable design criteria;
- Clarify terminology and criteria; and
- Clarify level of decision-making authority.

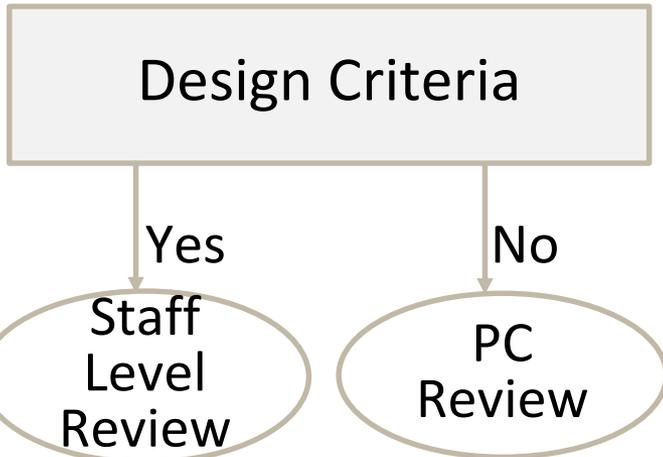


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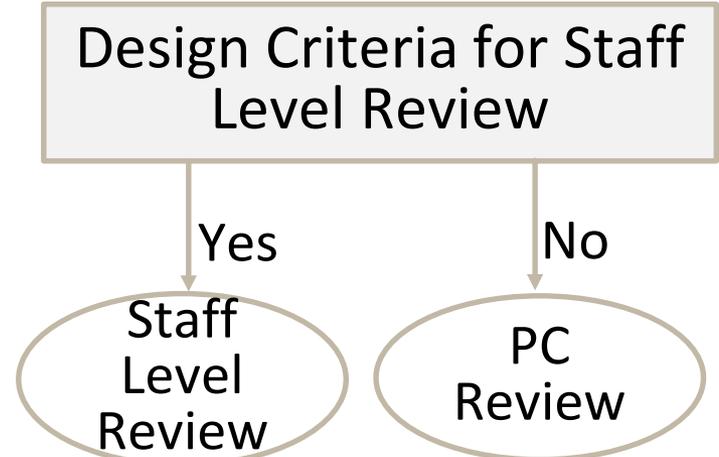
Update to Design Criteria for Telecom in ROW **Review Procedure**

Review Procedure

Current



Proposed



Applications are Reviewed Based on:

- The objectives and purpose of Design Criteria; and
- Appearance of proposed facilities, to preserve the aesthetics of adjacent properties.

Applications are Reviewed Using:

Objective Design Criteria

Level of Review

Review Findings

Review Procedure – Level of Review

Current

Staff Level Review:

- Not within 300 ft. of sensitive areas
- Meet design criteria

Proposed

Staff Level Review:

- Not within 300 ft. of sensitive areas
- Meet definition for Small Cell Wireless Facility, or
 - Meet pole height or 65 ft. or max. or increase of 12 ft., whichever is greater
 - Antenna enclosure is no more than 4.5 cu. ft.
 - Equipment cabinets are no more than 28 cu. ft.
- Not located within the primary view
- No addition of overhead lines



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Update to Design Criteria for Telecom in ROW

Design Criteria

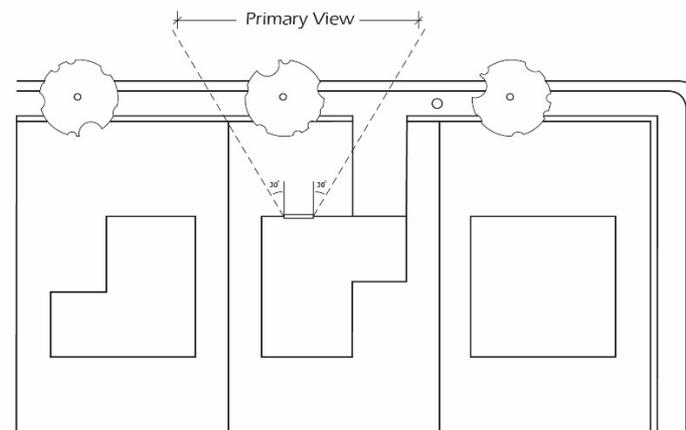
Design Criteria - Defining Primary Views

Current

No definition for 'Primary Views'

Proposed

- Definition includes,
- Angle of vision,
 - Measurement of angle of vision; and
 - Direction of vision.



* Not Drawn To Scale

Design Criteria - Avoiding Over-Concentration

Current

No minimum pole spacing standards

Proposed

Minimum 300 ft. away from any other wireless facility in the ROW

Design Criteria - Least Intrusive Feasible Pole Locations

Current

Avoid Placement:

- Next to corner locations
- Adjacent to driveways
- Within parcel lines

Proposed

Examples of Pole Locations:

- More than 50 feet from a street corner
- More than 5 feet from primary driveway
- Next to reducible front yard or street side-yards, near the shared property line

Design Criteria - Least Intrusive Feasible Antenna Design

Current

No examples for least intrusive possible antenna design

Proposed

Examples of antenna design include,

- Smallest size antenna
- Antenna enclosure is no more than 4.5 cubic feet in volume
- Match the shape, width and color of the antenna to the pole

Design Criteria - Least Intrusive Feasible Cabinet Location

Current

Locate equipment cabinet on pole, except where ground-mounted equipment reduces visual impact

Proposed

Example of cabinet location include:

- Ground-mounted equipment cabinets in commercial areas where the pole is not screened by trees.

Design Criteria - Least Intrusive Feasible Cabinet Design

Current

- No examples of least intrusive feasible pole-mounted equipment design
- Limit the number of equipment cabinets to three

Proposed

Examples of cabinet design include:

- Smallest size with least number of cabinets
- 28 cubic feet in volume
- Stackable configuration
- Match the shape, width, and color to the pole

Design Criteria - Least Intrusive Feasible Cabinet Design

Current

General guideline

Proposed

- Cables: Conceal, rout through conduits or arrange in orderly manner
- Conduits, Conduit Attachments and Connectors: Conceal to the extent feasible

Design Criteria - Least Intrusive Feasible Ground Mounted Equipment Design

Current

No examples of least intrusive feasible ground mounted equipment cabinet design

Proposed

Examples of cabinet design include:

- Smallest size equipment cabinet
- “Stealth” design
- Undergrounding, if practical and feasible

Outreach

4/2/2019: Outreach Meeting with Community

4/2/2019: Outreach Meeting with Carriers

Next Step

7/16/2019: City Council Hearing and Anticipated
Effective Date of Updated Design Criteria

Recommendation

Considerations

- Recommend the City Council to:
 - ◆ Update the Design Criteria
 - ◆ Update the Design Criteria with Modifications
 - ◆ Take no action and maintain the existing Design Criteria

Staff Recommendation

- Recommend the City Council to Update the Design Criteria