



# CITY OF SIMI VALLEY

## **CITY OF SIMI VALLEY DESIGN STANDARDS FOR SMALL CELL WIRELESS FACILITIES IN THE PUBLIC RIGHT-OF-WAY, AT WATER TANK SITES, AND ON PRIVATE PROPERTY**

The purpose of these design standards is to establish requirements for installing small cell wireless facilities (“SCWF”) in the City of Simi Valley in the public right-of-way, water tank sites, and on private property (including public property not in the public right-of-way). The federal government regulates the technologies and radio frequency standards for wireless carriers; however, the City has the ability to regulate the placement and design of wireless communication facilities.

The City encourages the following locations for small cell wireless facilities:

- At water tank sites.
- On light poles, traffic signals and other utility poles in the public right-of-way.
- Nonresidential areas or areas not directly adjacent to residential dwellings.
- Collocation at new and existing antenna sites;
- Areas where adverse impacts on the community and on public views are minimized.

The City’s preference is for installation of small cell wireless facilities on City-owned streetlights and traffic signals is based on the positive visual qualities of these facilities built in conformance with these design standards. Wireless providers are required to establish an agreement with the City for use of the streetlights and traffic signals that are owned by the City prior to installation of the small cell wireless facilities.

Since wireless technology is rapidly changing, City staff are available to meet with wireless carriers to discuss these design standards and any deviations that may be proposed. The Public Works Director (public ROW) or Environmental Services Director (water tank sites and private property) may waive or impose additional standards if this proves to be conducive to the site being least intrusive and blends with the natural and built environment of the City.

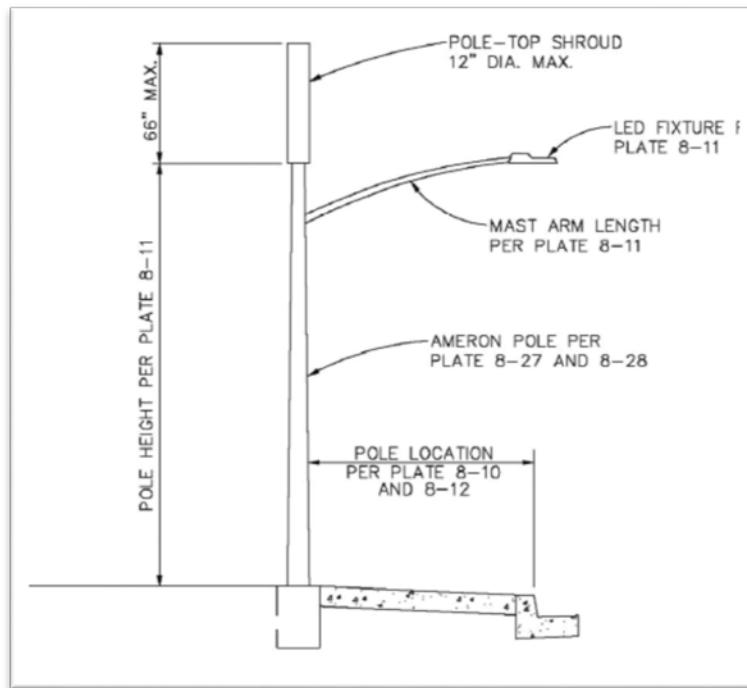
The intent of these design requirements is to aid wireless providers in planning facility locations and establish objective camouflage elements. Wireless providers

also need to review design standards and other provisions within the Simi Valley Municipal Code Title 5, Chapter 35, "Wireless Telecommunication Facilities" that can be found on the City's website ([www.simivalley.org](http://www.simivalley.org)). These design standards may be periodically revised and published by City staff based on new technology and improved wireless facility camouflage standards in the wireless facilities industry.

### General Requirements

1. Small cell wireless facilities shall comply with Simi Valley Municipal Code ("SVMC") Title 5, Chapter 16 (Noise Ordinance) and all noise reducing shrouds or screening material shall be in conformance design criteria below.
2. SCWFs may not bear any other signage or advertisements unless expressly approved by the City, required by law or recommended under existing and future FCC or other United States governmental agencies for compliance with RF emissions regulations. RF notification signs shall be placed where required by the FCC or other regulatory agencies.
3. A SCWF shall not be located within any portion of the public right-of-way, water tank sites, or private property that interferes or may interfere with City and emergency operations, and pedestrian and vehicular access or travel ways.
4. Lighting
  - a. Beacon lights are not permitted unless required by the Federal Aviation Administration ("FAA") or other government agency.
  - b. Legally-required lightning arresters and beacons shall be included when calculating the height of SCWF.
  - c. Any required lighting shall be shielded to eliminate, to the maximum extent possible, impacts to the surrounding neighborhood.
5. SCWFs shall not be located along the frontage of a historic building, deemed historic on a federal, state, or local level.
6. SCWFs shall be located equal distance between trees when possible, with a minimum of 15 feet separation such that no proposed disturbance shall occur within the critical root zone of any tree.
7. SCWFs shall have appropriate clearance from existing utilities poles, wires, and other utility support equipment.

8. SCWFs shall be located no closer than 250 feet away, radially, from another privately- or publicly-owned freestanding SCWF, or cell tower.
9. SCWFs shall not be within 250 feet of any residential structure unless it is determined that there is no other feasible alternative location and that the antenna is as far as possible from a habitable structure as feasible, and that it is demonstrated that all required Radio Frequency (RF) emissions setbacks between habitable structures and the antenna(s) are met pursuant to Federal Communications Commission (“FCC”) guidelines.



*Small Cell Wireless Facility on top of a Street Light Pole that meets the City's Design Criteria*

### Streetlights, Traffic Signals, and Utility Poles

The following design guidelines apply to small cell wireless facilities on all street lights and traffic signals and utility poles in the public right-of-way (“ROW”):

1. SCWF poles shall be located outside of driveways and intersection sight lines. Where feasible, poles shall be located near property corners or side property lines, and not directly in front of residences and businesses.
2. All SCWF equipment shall be located entirely on the pole in a vertical arrangement.

3. Ground mounted equipment cabinets shall not be used, to the maximum extent possible. If utilized, ground mounted equipment must be placed in a location that does not obstruct pedestrian or vehicular traffic and in the least conspicuous location available within a reasonable distance from the pole. Ground mounted equipment should be installed within an existing or replacement street feature including, without limitation, bus stop shelters, trash bins, benches, kiosks, advertisement panels or other street furniture to conceal the equipment.
4. SCWF equipment shall be located within the antenna shroud and behind street signs located on the pole, if feasible.
5. SCWF hardware shall be hidden. Only one equipment shroud, containing all required small cell accessory equipment, shall be installed per pole.
6. SCWF equipment shall be painted, treated and finished to match existing utility pole aesthetics.
7. SCWF equipment cabinets shall be galvanized. All facilities shall have non-reflective materials and shall blend with the materials and colors of the surrounding area and structures.
8. All SCWF cables, wires and other connectors must be routed through conduits within the pole whenever possible, and all external conduits, conduit attachments, cables, wires and other connectors must be concealed from public view to the extent feasible.
9. SCWF fans shall not be utilized, to the maximum extent possible.
10. If an existing pole is proposed to be replaced with a new pole to accommodate the SCWF, the replacement pole shall be designed to resemble existing poles of similar function in the public right-of-way near that location, including size, height, color, materials, and style, with the exception of any existing pole designs that are scheduled to be removed and not replaced.
  - a. The base of the replacement pole shall be a minimum of 18 inches from the face of the curb.
  - b. The replacement pole shall be offset at the minimum distance technically possible from the existing pole.
  - c. The replacement pole or mast arm and luminaire (for streetlights) shall match the existing mast arm and luminaire.

11. All ventilation on the streetlight and other pole structures must be via flush vents. Vents must be designed to maximally blend with the overall streetlight structure.
12. All SCWF antenna and equipment shrouds shall be colored to match the streetlight pole.
13. All cabling, wires, and conduit shall be concealed completely within the pole and applicable shrouds. Cabling and wires shall enter/exit the pole through conduit sweeps within the pole footing.



*Before and After – Meet's the City's Design Criteria*



*Undesirable Small Cell Wireless Facility Design*

### Water Tank Sites

1. All SCWFs located on monopoles at a water tank site shall comply with the design criteria for SCWFs on poles located in the public ROW.
2. All SCWF attached to water tanks shall have non-reflective materials and shall blend with the materials and colors of the surrounding area and structures.
3. Equipment cabinets on a pole, water tank, or ground shall be galvanized.
4. Antennas and support equipment for SCWFs shall not be taller than the water tank, where feasible.



*Typical Simi Valley Water Tank Site*

### Private Property

1. SCWFs located on private property (i.e. parking area light poles, existing cell towers, buildings, or rooftops) shall meet the design and camouflage criteria included in Chapter 35 Wireless Telecommunication Facilities. 5-35.06
2. New monopoles on private property shall meet the design criteria for monopoles in the public ROW.



*Desirable Monopole Design on Private Property*