

CHAPTER 160

SMALL CELL GUIDELINES

160.01 Purpose	160.05 Alternative Locations
160.02 Definitions	160.06 Guidelines on Placement
160.03 Requirement to Comply	160.07 Undergrounding Requirements
160.04 Locations of Small Cell Facilities, Related Ground Equipment, and Wireless Support Structures	160.08 Aesthetic Requirements
	160.09 General Provisions

160.01 PURPOSE. The purpose of these guidelines is to establish general procedures and standards, consistent with applicable federal and State laws, for the siting, construction, installation, collocation, modification, relocation, operation, and removal of small cell wireless technology within the City’s rights-of-way. The goals of these guidelines are to:

1. Provide standards, technical criteria, and details for small cell facilities in the City’s rights-of-way to be uniformly applied to all applicants and owners of small cell facilities or support structures for such facilities.
2. Enhance the ability of wireless communications carriers to deploy small cell wireless technology in the City quickly, effectively, and efficiently so residents, businesses, and visitors benefit from ubiquitous and robust wireless service availability.
3. Preserve the character of the City’s neighborhoods and corridors.
4. Ensure small cell facilities and support structures conform with all applicable health and safety regulations and will blend into their environment to the greatest extent possible.
5. Comply with, and not conflict with or preempt, all applicable State and federal laws.

160.02 DEFINITIONS. For use in this chapter the following terms are defined:

1. “Abandoned” means any small cell facilities or wireless support structures that are unused for a period of 365 days without the operator otherwise notifying the City and receiving the City’s approval.
2. “Antenna” means communications equipment that transmits or receives radio frequency signals in the provision of wireless service.
3. “Applicant” means any person applying for a permit hereunder.
4. “Architectural review district” means City-designated historic districts, landmark sites, and conservation districts, as well as National Register of Historic Places historic districts and sites.
5. “City property” means property other than right-of-way owned by the City.

6. “Collocation” or “collocate” means to install, mount, maintain, modify, operate, or replace wireless facilities on a wireless support structure.
7. “Decorative pole” means a pole, arch, or structure other than a street light pole placed in the right-of-way specifically designed and placed for aesthetic purposes and on which no appurtenances or attachments have been placed except for any of the following:
 - A. Electric lighting; or
 - B. Specially designed informational or directional signage; or
 - C. Temporary holiday or special event attachments.
8. “Industrial area” means an industrially zoned area on the official Zoning Map of the City.
9. “Operator” means a wireless service provider, cable operator, or a video service provider that operates a small cell facility and provides wireless service. Operator includes a wireless service provider, cable operator, or a video service provider that provides information services as defined in the Telecommunications Act of 1996, 110 Stat. 59 47 U.S.C. § 153, and services that are fixed in nature or use unlicensed spectrum.
10. “Ornamental pole” means a pole or structure placed in the right-of-way to support traffic signals or streetlights which has been specifically designed and placed for aesthetic purposes. Ornamental poles often include appurtenances or attachments for flags, banners, planters, or other aesthetic features.
11. “Permit” means the non-exclusive grant of authority issued by the City to install a small cell facility or a wireless support structure in a portion of the right-of-way in accordance with these guidelines.
12. “Permittee” means the owner or operator issued a permit pursuant to these guidelines.
13. “Retail and commercial areas” means a commercially zoned area on the official Zoning Map of the City.
14. “Residential area” means a residentially zoned area on the official Zoning Map of the City.
15. “Right-of-way” means the surface of, and the space within, through, on, across, above, or below, any public street, public road, public highway, public freeway, public lane, public alley, public court, public boulevard, public parkway, public drive, public utility easement, and any other land dedicated or otherwise designated for a compatible public use, which is owned or controlled by the City.
16. “Small cell facility” means a wireless facility that meets both of the following requirements:

- A. Each antenna is located inside an enclosure of not more than six cubic feet in volume or, in the case of an antenna that has exposed elements, the antenna and all of its exposed elements could fit within an enclosure of not more than six cubic feet in volume.
- B. All other wireless equipment associated with the facility is cumulatively not more than 28 cubic feet in volume. The calculation of equipment volume shall not include electric meters, concealment elements, telecommunications demarcation boxes, grounding equipment, power transfer switches, cut-off switches, and vertical cable runs for the connection of power and other services.
17. “Toll” means the pause or delay of the running of the required time period.
18. “Utility pole” means a structure that is designed for, or used for the purpose of, carrying lines, cables, or wires for electric or telecommunications service. “Utility pole” excludes street signs and decorative poles.
19. “Wireless support structure” means a pole, such as a monopole, either guyed or self-supporting, street light pole, traffic signal pole, a 15 foot or taller sign pole, or utility pole capable of supporting small cell facilities.

160.03 REQUIREMENT TO COMPLY. Placement, modification, operation, relocation, and removal of a small cell facility or wireless support structure shall comply with these guidelines at the time the permit for installation, modification, relocation, or removal is submitted for approval and as amended from time to time.

160.04 LOCATIONS OF SMALL CELL FACILITIES, RELATED GROUND EQUIPMENT, AND WIRELESS SUPPORT STRUCTURES.

1. Collocation Preference. It is the City’s strong preference that whenever an applicant proposes to place a new wireless support structure with a small cell facility within 250 feet from an existing wireless support structure, that the applicant either collocate with the existing facility or demonstrate that a collocation is either not technically feasible or space on the existing facility is not potentially available.
2. Order of Preference for Locations. The following list indicates the order of preference for new small cell facilities from most preferred to least preferred:
- A. Industrial areas if not adjacent to a municipal park, residential area, or architectural review district.
- B. Highway right-of-way areas if not adjacent to a municipal park, residential area, or architectural review district.
- C. Retail and commercial areas if not adjacent to a municipal park, residential area, or architectural review district.

- D. Residential areas (including mixed-use areas incorporating residential uses).
 - E. Municipal parks.
 - F. Architectural review districts.
3. Order of Preference for Wireless Support Structures. The following list indicates the order of preference for wireless support structures for small cell facilities:
- A. Existing Utility Poles. It is the City's preference that small cell facilities be installed on existing utility poles (electric or telephone) or lashed onto existing telephone lines between existing utility poles.
 - B. Non-Ornamental Municipal Service Poles. If the applicant does not have the right to use existing utility poles or lines under reasonable terms and conditions or the utilization imposes technical limits, the City prefers that the applicant next looks to existing non-ornamental municipal streetlights or traffic signal structures.
 - C. New Poles. If the first two options in Paragraphs A and B of this subsection have proven to be unavailable, the City prefers the installation of a new pole to serve as a wireless support structure.
 - D. Ornamental Municipal Service Poles. The use of ornamental municipal streetlights and traffic signals as wireless support structures is strongly discouraged. These should only be proposed if the options in Paragraphs A, B, and C of this subsection are unavailable, no other options exist for providing service to a location, or when requested by the City based on the proposed location. When collocating on ornamental traffic signal mast arms, the preferred collocation spot is on the traffic signal pole without attached street signs, with the antenna placed at the top of the vertical pole immediately below the finial. The small cell facility must not interfere with the attachment of flags, hanging planters, banners, or similar enhancements. Each proposed collocation will be subject to a site-specific review.
 - E. Sign Poles (15 feet or taller). The only sign poles that may be considered are those that are at least 15 feet tall. These are the least preferred option for a wireless support structure.
4. New Wireless Support Structures. If existing utility poles are not available for collocation, operators may propose a new wireless support structure. New wireless support structures that will be more than 20 feet in height shall match the design of the City's existing signal mast arms. New wireless support structures that will be 20 feet or less in height shall match the City's existing streetlights. These requirements are to ensure new wireless support structures conform to existing structures within the area. Information on the manufacturer and model

identification and detailed drawings of these support structures can be provided by the City.

Residential Areas. In residential areas, new wireless support structures should be located to avoid obstructing the view of building facades by placing the wireless support structure at a corner, intersection, or along a lot line. New wireless support structures should be located in the yard location where other overhead utilities are located unless it is not technically feasible to do so. Applicants shall clearly explain the rationale for requests that deviate from this expectation.

In order to meet the service needs of operators, the City will consider requests to locate small cell facilities on other City property, such as municipal parking lots, at reasonable lease rates, fees, and terms.

160.05 ALTERNATIVE LOCATIONS. The City reserves the right to propose an alternative wireless support structure to the one proposed in the application. The City may also propose an alternate location for a new wireless support structure within 100 feet of the proposed location or within a distance that is equivalent to the width of the right-of-way in or on which the new wireless support structure is proposed, whichever is greater, which the operator shall use if it has the right to use the alternate location on reasonable terms and conditions and the alternate location does not impose technical limits or additional costs.

160.06 GUIDELINES ON PLACEMENT.

1. **General Guidelines.** Generally, an applicant shall construct and maintain small cell facilities and wireless support structures in a manner that does not:
 - A. Obstruct, impede, or hinder the usual travel or public safety on a right-of-way.
 - B. Obstruct the legal use of a right-of-way by other utility providers.
 - C. Violate nondiscriminatory applicable codes.
 - D. Violate or conflict with this Code of Ordinances or these guidelines.
 - E. Violate the federal Americans with Disabilities Act.
2. **Materials.** The City desires to promote cleanly organized and streamlined facilities using the smallest and least intrusive means available to provide wireless services to the community. Generally, a small cell facility or wireless support structure shall match and be consistent with the materials and finish of the adjacent municipal poles of the surrounding area adjacent to their location. In the absence of adjacent municipal poles, the wireless support structure shall match the materials and finish of the adjacent utility poles.
3. **Antennas on Existing or Replaced Utility Poles or Municipal Poles.** The antenna(s) associated with collocation on existing or replaced, utility poles or

municipal poles must have concealed cable connections, antenna mount, and other hardware. The maximum dimensions for antennas shall not be more than six cubic feet in volume, including any enclosure for the antenna.

4. **Minimization of Impact.** Small cell facilities and wireless support structures and related equipment shall be placed, as much as possible, in line with other utility features and in a location that minimizes any obstruction, impediment, or hindrance to the usual travel or public safety on a right-of-way.

5. **Height Above Ground.**

A. **Small Cell Facilities.** Small cell facilities shall be installed at least 10 feet above the ground. If a small cell facility attachment is projecting toward the street, for the safety and protection of the public and vehicular traffic the City may require the attachment to be installed no less than 25 feet above the ground.

B. **New Wireless Support Structures.** In areas where there are no wireless support structures or utility poles taller than 30 feet in height above ground level and the maximum allowable height for building construction in the underlying zoning district is 30 feet in height above ground level or less, the overall height of a new wireless support structure and any collocated antennas shall not be more than 30 feet in height above ground level.

C. **All Other Areas.** In all other areas, the overall height of a new wireless support structure and any collocated antennas shall not be more than 40 feet in height above ground level.

D. **Existing Wireless Support Structures.** For an existing wireless support structure, the antenna and any associated shroud or concealment material are permitted to be collocated at the top of the existing wireless support structure and shall not increase the height of the existing wireless support structure by more than five feet.

6. **Protrusion.** No protrusions from the outer circumference of the existing or new structure or pole shall be more than two feet. The pole and all attachments to the pole that are projecting, or any equipment or appurtenance mounted on the ground, shall comply with the Americans with Disabilities Act and shall not obstruct an existing or planned sidewalk or walkway. The City, at its option, may waive the requirement to limit the protrusion to no more than two feet.

7. **Location of Equipment – General.**

A. **Removal.** Small cell facilities and related equipment shall not impede pedestrian or vehicular traffic in the right-of-way. If any small cell facility or wireless support structure is installed in a location that is not in accordance with the plans approved by the City, impedes pedestrian or vehicular traffic or does not comply or otherwise renders the right-of-way non-compliant with

applicable laws, including the Americans with Disabilities Act, then the operator shall promptly remove the small cell facilities or wireless support structure. Similarly, any abandoned small cell facilities shall be promptly removed, barring a showing that the facility serves as an auxiliary, backup, or emergency equipment or is otherwise not abandoned. In any case, removal of facilities, as required herein, shall take place within 90 days following receipt of notice from the City to the operator to remove the same. Facilities not removed by the operator within 90 days of written notice from the City will be removed by the City without further notice and the City will bill the operator for all costs associated with such removal, including but limited to reasonable attorney fees, and court costs to the extent necessary.

B. Noise. The applicant is required to incorporate ambient noise suppression measures and to place equipment in locations less likely to impact adjacent residences or businesses to ensure compliance with all applicable noise regulations and so as not to create a nuisance.

C. Utility Lines. Service lines must be undergrounded whenever feasible to avoid additional overhead lines. For metal poles, undergrounded cables and wires must transition directly into the pole base without any external junction box.

D. Spools and Coils. To reduce clutter and deter vandalism, excess fiber optic or coaxial cables for small cell facilities shall not be spooled, coiled, or otherwise stored on the pole except within the approved enclosure such as a cage or cabinet.

E. Above-Ground Conduit. On wood poles, all above-ground wires, cables, and connections shall be encased in the smallest section or smallest diameter PVC channel, conduit, u-guard, or shroud feasible, with a maximum dimension of four inches in diameter. Such conduit shall be finished in zinc, aluminum, or stainless steel, or colored to match those metal finishes.

8. Location of Ground Mounted Equipment. Ground equipment should be minimal and the least intrusive. It should be placed to minimize any obstruction, impediment, or hindrance to the usual travel or public safety on a right-of-way, maximize the line of sight required to add to safe travel of vehicular and pedestrian traffic and maximize that line of sight at street corners and intersections and minimize hazards at those locations. The City may deny a request that negatively impacts vehicular or pedestrian safety.

The equipment shroud or cabinet must contain all the equipment associated with the facility other than the antenna. All cables and conduits associated with the equipment must be concealed from view, routed directly through the metal pole

(with the exception of wood power poles) and undergrounded between the pole and the ground-mounted cabinet.

9. Location of Pole Mounted Equipment. All pole-mounted equipment must be installed as flush to the pole as possible. Equipment attached to metal poles must be installed using stainless steel banding straps. When the straps are attached to a metal pole, they must match the color of the pole. Through-bolting or use of lag bolts is prohibited. All pole mounted equipment shall be located as close together as technically possible and if possible, on the same side of the pole.

When pole-mounted equipment is either permitted or required, all equipment other than the antenna(s), electric meter, and disconnect switch must be concealed within an equipment cage. Equipment cabinet may not extend more than 24 inches from the face of the pole. The equipment cabinet must be non-reflective, colored to match the existing pole if attached to a metal pole, and in the color of brushed aluminum if attached to a wood pole. Equipment cabinets should be mounted as flush to the pole as possible. Any standoff mount for the equipment cabinet may not exceed four inches.

A. Electric Meter. The City strongly encourages site operators to use flat-rate electric service when it would eliminate the need for a meter. When a meter is necessary, site operators shall use the smallest and least intrusive electric meter available. Whenever permitted by the electric service provider, the electric meter base should be painted to match the pole.

B. Telephone/Fiber Optic Utilities. Cabinets for telephone or fiber optic utilities may not extend more than 24 inches from the face of the pole, and must be painted, wrapped, or otherwise colored to match the pole. Microwave or other wireless backhaul is discouraged when it would involve a separate and unconcealed antenna.

10. Underground Equipment Vaults. Equipment in an environmentally controlled underground vault may be required in some areas where technologically feasible and appropriate for the location.

11. New Wireless Support Structures.

A. Spacing. The City strongly discourages more than one new wireless support structure per block and will not approve more than one per 250 feet on each side of the street to minimize the hazard of poles adjacent to roadways and minimize visual clutter and distractions to vehicular traffic. An exemption may be granted if the applicant can demonstrate that this restriction has the effect of preventing wireless service to this location. Wireless support structures shall be spaced apart from utility poles or wireless support structures supporting small cell facilities at the same spacing between utility poles in the immediate proximity.

If multiple requests are received to install two or more poles that would violate the spacing requirement or to collocate two or more small cell facilities on the same wireless support structure, priority will be given to the first request received that meets these guidelines.

B. Alignment With Other Poles. The centerline of any new wireless support structure must be aligned, as much as possible, with the centerlines of existing poles on the same street segment, but only if the new structure's height does not conflict with overhead power utility lines and facilities, and the pole may be offset sufficiently to avoid such conflict.

C. General Restrictions on New Wood Poles. In all locations, the City reserves the right to require a metal pole rather than a wood pole based on the built or natural environment character of the proposed site location. The City will not approve any new wood poles in an Architectural Review District.

D. Wood Pole Footings and Foundations. All new wood poles must be direct buried to a depth determined, stamped, sealed, and signed by a professional engineer licensed and registered by the State of Iowa, and subject to the City's review and approval.

E. Metal Pole Footings and Foundations. All new metal poles must be supported with a reinforced concrete pier. The design including the pier, footings, and anchor bolts shall be stamped, sealed, and signed by a professional engineer licensed and registered by the State of Iowa, and subject to the City's review and approval. All anchor bolts must be concealed from public view with an appropriate pole boot or cover subject to the City's prior approval.

F. Metal Pole Material. All new metal poles must be constructed from hot-dip galvanized steel or other corrosion-resistant materials approved by the City and finished in accordance with these guidelines to avoid rust stains on adjacent sidewalks, buildings, or other improvements.

G. Metal Pole Finish. All new metal poles must match the finish of the adjacent poles. The applicant may select a paint or powder coat system in compliance with ASTM standards.

H. Lightings, Planters, Flags, Banners. The City may require the applicant to install functional streetlights or brackets to hold hanging flower planters, flags, or banners when technically feasible and the City determines that such additions will enhance the overall appearance and usefulness of the proposed facility. The City may install hanging flower planters, flags, banners, or similar enhancement features utilizing the brackets.

12. City-Owned Wireless Support Structures.

A. Required Loan Analysis. Installation on all City-owned poles, including traffic signals and streetlights, shall have an industry standard pole load analysis completed, sealed, and signed by a professional engineer licensed and registered by the State of Iowa and submitted to the City with each permit application indicating that the City-owned pole to which the small cell facility will be attached will safely support the load.

B. Height of Attachments. All attachments on all City-owned poles shall be at least 10 feet above grade, and if a small cell facility is projecting toward the street the City may require the attachment to be installed no less than 25 feet above the ground for the safety and protection of the public and vehicular traffic.

C. Power Source. A small cell facility on a City-owned wireless support structure may use the same power source that provides power for the original purpose of the wireless support structure. The City will provide a proposed flat rate for anticipated annual cost of power.

D. Installations on Traffic Signals and Street Lights. Installation on all traffic signal structures or streetlights must not interfere with the integrity of the facility in any way that may compromise the safety of the public. The installation must not interfere with other existing uses on the pole such as traffic signals, streetlights, hanging flower planters, flags, banners, or similar enhancements. Installation of small cell facilities on any traffic signal structure or streetlight shall:

- (1) Be encased in a separate conduit than the traffic light electronics.
- (2) Have a separate electric power connection than the traffic signal or streetlight structure.
- (3) Have a separate access point than the traffic signal or streetlight structure.

E. Installations on Sign Poles (15 feet or taller). Installation on sign poles may only occur if the sign pole is 15 feet or taller.

F. Reservation of Space for Future Public Safety or Transportation Uses. An application for space on a City owned or operated wireless support structure that conflicts with space reserved for future public safety or transportation uses documented in an approved plan in place at the time of the application will be denied unless the operator pays for the replacement of the pole or wireless support structure and the replaced pole or wireless support structure will accommodate the future use and the small cell facility.

160.07 UNDERGROUNDING REQUIREMENTS. The City may deny requests to install structures and facilities in the right-of-way or on City property in an area where the

City has required all structures and facilities except those owned by the City to be placed underground or elsewhere in the right-of-way or a utility easement. These areas are easily identifiable as those locations where electric has been placed underground; however, if an applicant is uncertain as to whether such facilities have been placed underground in the area, the applicant should contact the City for clarification before applying for or installing any wireless support structures or small cell facilities in the area. The applicant may request a waiver if the operator is unable to achieve its service objective using a location in the right-of-way or on City property where the prohibition does not apply, in a utility easement the operator has the right to access, or in or on other suitable locations or structures made available by the City at reasonable rates, fees, and terms.

160.08 AESTHETIC REQUIREMENTS.

1. Concealment.

A. New Wireless Support Structures. It is the City's preference that all new wireless support structures be camouflaged, except for those located in an area that is predominantly industrial. The applicant shall submit its proposal for camouflage with the permit application.

B. Small Cell Facilities. Small cell facilities shall be concealed or enclosed as much as possible in an equipment box, cabinet, or other unit that may include ventilation openings. Unless approved by the City, in writing, there shall be no external cables and wires hanging off a pole. The approved ones shall be sheathed or enclosed in a conduit, so that wires are protected and not visible or visually minimized to the extent possible.

C. Equipment Enclosures. Equipment enclosures, including electric meters, shall be as small as possible. Ground-mounted equipment shall incorporate concealment elements into the proposed design, concealment may include, but shall not be limited to, landscaping, strategic placement in less obtrusive locations, and placement within existing or replacement street furniture.

D. Landscaping. Landscape screening shall be provided and maintained around ground mounted equipment enclosures. The planting quantity and size should be such that 100 percent screening is achieved within two years of installation. The City may grant an exemption from this landscaping requirement based on the characteristics of the specific location for the equipment enclosure. Tree "topping," or the improper pruning of trees is prohibited. Any proposed pruning or removal of trees, shrubs, or other landscaping already existing in the right-of-way, or proposed root pruning or other impacts to underground vegetation, must be noted in the application and must be approved by the City. Removal shall be strongly discouraged and shall only be allowed when there are no other feasible alternatives.

- E. Underground Vaults. When underground vaults are proposed, they shall be located to minimize disruption to the placement of street trees. Adequate planting depth shall be provided between the top of the vault and the finished grade to allow plants to grow in a healthy condition.
2. Colors. All colors shall match the background of any wireless support structure that the facilities are located upon. In the case of existing wood poles, finishes of conduit shall be zinc, aluminum, or stainless steel, or colored to match those metal finishes, and equipment cabinets shall be the color of brushed aluminum. Ground mounted equipment cabinets shall be the color of brushed aluminum.
3. Signage, Lights, Logos, Decals, and Cooling Fans.
- A. Signage. The operator shall post its name, location identifying information, and emergency telephone number in an area on the cabinet of the small cell facility that is visible to the public. Signage required under this section shall not exceed four-inches by six-inches, unless otherwise required by law (e.g., RF ground notification signs) or the City. If no cabinet exists, the signage shall be placed at the base of the pole.
- B. Lights. New small cell facilities and wireless support structures shall not be illuminated, except in accordance with State or federal regulations, or unless illumination is integral to the camouflaging strategy such as design intended to look like a streetlight pole.
- C. Logos and Decals. New small cell facilities and wireless support structures shall not include advertisements and may only display information required by a federal, State, or local agency. Utilize the smallest and lowest visibility radiofrequency (RF) warning sticker required by government or electric utility regulations. Place the RF sticker as close to the antenna as possible and remove or paint over unnecessary equipment manufacturer details.
- D. Cooling Fans. In residential areas, use a passive cooling system. In the event a fan is needed, use a cooling fan with a low noise profile.

160.09 GENERAL PROVISIONS.

1. Tree Maintenance. The operator, its contractors, and agents shall obtain written permission from the City before trimming trees in the right-of-way hanging over its small cell facility or wireless support structure to prevent branches of such trees from contacting an attached small cell facility. When trimming such trees on private property is desired, then before commencing any such work the operator, its contractors, and agents shall notify the property owner and the City and obtain the owner's permission. When directed by the City, the operator shall trim under the

supervision and direction of the City. The City shall not be liable for any damages, injuries, or claims arising from the operator's actions under this section.

2. Minor Technical Exceptions. The City recognizes that in some circumstances strict compliance with these guidelines may result in undesirable aesthetic outcomes and that minor deviations should be granted when the need for such deviation arises from circumstances outside the applicant's control.

3. Waivers if Requirements Have the Effect of Prohibiting the Provision of Wireless Service To a Location. In the event any applicant asserts that strict compliance with any provision in these guidelines, as applied to a specific proposed small cell facility, would effectively prohibit the provision of personal wireless services, the City may grant limited waivers from strict compliance.

4. Application and Recurring Fees. Application fees for permits to site small cell facilities shall conform to the requirements of Section 8C.7A of the *Code of Iowa* and recurring annual fees per small wireless facility shall be fixed at the presumptively reasonable rate of \$270.00 per year as provided in the FCC Declaratory Ruling and Order 18-133 at Paragraph 19. The City, however, reserves the right to conduct cost studies and to adjust such fees, from time to time, to the extent permitted by applicable State and federal laws and regulations.

(Ch. 160 – Ord. 22-04 – Dec. 21 Supp.)

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